



Event # 94-0

Name: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Description: The City of Fort Lauderdale, Florida (City) is seeking bids from qualified bidders, for construction services in accordance with the terms, conditions, and specifications contained in this Invitation to Bid (ITB).

This Project is located at South Ocean Drive between Mayan Drive and Marion Drive, in the City of Fort Lauderdale, Florida. The work to be accomplished under this contract includes, but is not limited to, complete demolition of the existing bridge and construction of a new bridge in the same location.

Buyer: Lewis, Maureen

Status: Open

Event Type: IFB

Currency: USD

Sealed Bid: Yes

Respond To All Lines: Yes

Q & A Allowed: Yes

Number Of Amendments: 0

Display Bid Tabulation: Display When Event Closed For Bidding Or Canceled

Event Dates

Preview:

Q & A Open: 05/05/2023 08:00:00 AM

Open: 05/05/2023 08:00:00 AM

Q & A Close: 05/26/2023 05:00:00 PM

Close: 06/07/2023 02:00:00 PM

Dispute Close:

Questions

Question	Response Type	Attachment
Have you completed the Required Forms?	Text	Event 94_P12087 Re-Bid Required Forms.pdf
Have you completed the Surtax Required Forms?	Text	Event 94_Surtax Required Forms.pdf

Meetings

Meeting	Description	Location	Date	Required
South Ocean Drive Bridge Replacement Pre-bid and Site	Access to the site visit (if any) is only available to pre-	Intersection of S. Ocean & Mayan Drive	05/16/2023 10:00:00 AM	No

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Meeting	Description	Location	Date	Required
Visit	approved plans-holders originating from the City of Fort Lauderdale Plans Request Form. Non-approved attendees will not be allowed to participate in the site visit. Proof of approval req'd.			

Attachments

Name	Description	Attachment
S. Ocean Drive Bridge Replacement Specifications	Final Specifications for South Ocean Drive Bridge Replacement - Surtax (P12087 Re-Bid).	Event 94_P12087 RE-BID_FINAL SPECS._S. Ocean Drive Bridge_5-2-2023.pdf

Contacts

Name	Email Address
Maureen Lewis	MLewis@fortlauderdale.gov

Comments

Title	Type	Comment	Attachment
ITB P12087 South Ocean Dr	Print On Purchase Order	<ul style="list-style-type: none">To Be Bid: ITBC - INVITATION TO BID (CONSTRUCTION)Project Manager: Connie HaymanPM Contact #: 954-828-7150Project #: P12087Project Name: P12087	Copy of revised csv file_1-26-2023_Excel version (002).xlsx

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Title	Type	Comment	Attachment
		South Ocean Drive Bridge Replacement Project - Surtax	
		• PLEASE CHECK THE ATTACHMENT FOR THE COMPLETE DESCRIPTION DETAILS	

Commodity Codes

Commodity Code	Description
906-38	General Construction - Architectural

Line Details

Line 1: Mobilization, demobilization (move-in and move-out), staging

Description: Mobilization, demobilization (move-in and move-out), staging

Item: MOBILIZATION Mobilization, demobilization (move-in and move-out), staging

Commodity Code: 906-38 General Construction - Architectural

Quantity: 1.0000 **Unit of Measure:** LS

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 2: Maintenance of traffic (MOT). Furnish all materials, labor,

Description:

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Maintenance of traffic (MOT). Furnish all materials, labor,

Item: MAINTENANCE OF TRAFFIC Maintenance of traffic (MOT). Furnish all materials, labor,

Commodity Code: 906-38 General Construction - Architectural

Quantity: 1.0000 **Unit of Measure:** LS

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 3: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: SEDIMENT BARRIER Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 659.0000 **Unit of Measure:** LS

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 4: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: FLOATING TURBIDITY BARRIER Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Quantity: 341.0000

Unit of Measure: LF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 5: Furnish all material, labor and equipment required to provid

Description: Furnish all material, labor and equipment required to provid

Item: SOIL TRACKING PREVENTION DEVICE Furnish all material, labor and equipment required to provid

Commodity Code: 906-38 General Construction - Architectural

Quantity: 2.0000

Unit of Measure: EA

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 6: Furnish all material, labor and equipment required to provid

Description: Furnish all material, labor and equipment required to provid

Item: INLET PROTECTION SYSTEM Furnish all material, labor and equipment required to provid

Commodity Code: 906-38 General Construction - Architectural

Quantity: 4.0000

Unit of Measure: EA

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Response:

Allowed:

Responses:

Add On No
Charges
Allowed:

Line 7: Furnish all material, labor and equipment required to provid

Description: Furnish all material, labor and equipment required to provid

Item: LITTER REMOVAL AND DISPOSAL THRO Furnish all material, labor and equipment required to provid

Commodity 906-38 General Construction - Architectural
Code:

Quantity: 175,983.0000 **Unit of** SF
Measure:

Requested 07/01/2023
Delivery
Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Line 8: Furnish all material, labor and equipment required to provid

Description: Furnish all material, labor and equipment required to provid

Item: MOWING THROUGHOUT CONSTRUCTION T Furnish all material, labor and equipment required to provid

Commodity 906-38 General Construction - Architectural
Code:

Quantity: 73,181.0000 **Unit of** SF
Measure:

Requested 07/01/2023
Delivery
Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Line 9: Furnish all material, labor and equipment required for clear

Description: Furnish all material, labor and equipment required for clear

Item: CLEARING AND GRUBBING THROUGHOUT Furnish all material, labor and equipment required for clear

Commodity Code: 906-38 General Construction - Architectural

Quantity: 1.0000 **Unit of Measure:** LS

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 10: Furnish all material, labor and equipment required for selec

Description: Furnish all material, labor and equipment required for selec

Item: SELECTIVE CLEARING AND GRUBBING Furnish all material, labor and equipment required for selec

Commodity Code: 906-38 General Construction - Architectural

Quantity: 436.0000 **Unit of Measure:** SF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 11: Furnish all material, labor and equipment required for regul

Description: Furnish all material, labor and equipment required for regul

Item: REGULAR EXCAVATION Furnish all material, labor and equipment required for regul

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Commodity Code: 906-38 General Construction - Architectural

Quantity: 55.6000 **Unit of Measure:** CY

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 12: Furnish all material, labor and equipment required for emban

Description: Furnish all material, labor and equipment required for emban

Item: EMBANKMENT Furnish all material, labor and equipment required for emban

Commodity Code: 906-38 General Construction - Architectural

Quantity: 492.0000 **Unit of Measure:** CY

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 13: Furnish all material, labor and equipment required for stabi

Description: Furnish all material, labor and equipment required for stabi

Item: TYPE B STABILIZATION Furnish all material, labor and equipment required for stabi

Commodity Code: 906-38 General Construction - Architectural

Quantity: 1,788.2400 **Unit of Measure:** SY

Requested Delivery Date: 07/01/2023

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Line 14: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: OPTIONAL BASE, BASE GROUP 01 Furnish all material, labor and equipment required to instal

Commodity 906-38 General Construction - Architectural
Code:

Quantity: 42.7000 **Unit of** SY
Measure:

Requested 07/01/2023
Delivery
Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Line 15: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: OPTIONAL BASE, BASE GROUP 09 Furnish all material, labor and equipment required to instal

Commodity 906-38 General Construction - Architectural
Code:

Quantity: 72.0000 **Unit of** SY
Measure:

Requested 07/01/2023
Delivery
Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Line 16: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: OPTIONAL BASE, BASE GROUP 11 Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 1,517.0000 **Unit of Measure:** SY

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 17: Furnish all material, labor and equipment required to mill e

Description: Furnish all material, labor and equipment required to mill e

Item: MILLING EXIST. ASPHALT PAVEMENT, Furnish all material, labor and equipment required to mill e

Commodity Code: 906-38 General Construction - Architectural

Quantity: 246.9000 **Unit of Measure:** SY

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 18: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Item: TYPE SP-9.5 SUPERPAVE ASPHALTIC Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 170.9000 **Unit of Measure:** TN

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 19: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: ASPHALT CONCRETE FRICTION COURSE Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 88.6000 **Unit of Measure:** TN

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 20: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: CONCRETE CLASS NS, GRAVITY WALL Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 0.2000 **Unit of Measure:** CY

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 21: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: INLETS, CURB, TYPE P-5, <10' Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 1.0000 **Unit of Measure:** EA

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 22: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: INLETS (CURB) TYPE J-3 (<10') Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 3.0000 **Unit of Measure:** EA

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On No

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

**Charges
Allowed:**

Line 23: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: MANHOLES, J-8 (>10') Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 1.0000 **Unit of Measure:** EA

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 24: Furnish all material, labor and equipment required to adjust

Description: Furnish all material, labor and equipment required to adjust

Item: ADJUST MANHOLES Furnish all material, labor and equipment required to adjust

Commodity Code: 906-38 General Construction - Architectural

Quantity: 3.0000 **Unit of Measure:** EA

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 25: Furnish all material, labor and equipment required to adjust

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Description: Furnish all material, labor and equipment required to adjust

Item: ADJUST VALVE BOX Furnish all material, labor and equipment required to adjust

Commodity Code: 906-38 General Construction - Architectural

Quantity: 3.0000 **Unit of Measure:** EA

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 26: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: FRENCH DRAIN, 36" Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 185.0000 **Unit of Measure:** LF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 27: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: PIPE HANDRAIL-GUIDERAIL, ALUMINU Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Quantity: 163.0000

Unit of Measure: LF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 28: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: CONCRETE CURB AND GUTTER , TYPE Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 300.0000

Unit of Measure: LF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 29: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: CONCRETE SIDEWALK AND DRIVEWAYS, Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 182.0000

Unit of Measure: SY

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Response:

Allowed:

Responses:

Add On No
Charges
Allowed:

Line 30: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: CONCRETE SIDEWALK AND DRIVEWAYS, Furnish all material, labor and equipment required to instal

Commodity 906-38 General Construction - Architectural
Code:

Quantity: 17.5000 **Unit of** SY
Measure:

Requested 07/01/2023
Delivery
Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Line 31: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: PAVERS, ARCHITECTURAL, SIDEWALK Furnish all material, labor and equipment required to instal

Commodity 906-38 General Construction - Architectural
Code:

Quantity: 42.0000 **Unit of** SY
Measure:

Requested 07/01/2023
Delivery
Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Line 32: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: DETECTABLE WARNINGS Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 2.0000 **Unit of Measure:** SF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 33: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: PERFORMANCE TURF, SOD Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 6,075.9000 **Unit of Measure:** SY

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 34: Furnish all material, labor and equipment required to reloca

Description: Furnish all material, labor and equipment required to reloca

Item: SINGLE POST SIGN (RELOCATE) Furnish all material, labor and equipment required to reloca

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Commodity Code: 906-38 General Construction - Architectural

Quantity: 3.0000 **Unit of Measure:** AS

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 35: Furnish all material, labor and equipment required to remove

Description: Furnish all material, labor and equipment required to remove

Item: SINGLE POST SIGN (REMOVE) Furnish all material, labor and equipment required to remove

Commodity Code: 906-38 General Construction - Architectural

Quantity: 2.0000 **Unit of Measure:** AS

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 36: Furnish all material, labor and equipment required to reloca

Description: Furnish all material, labor and equipment required to reloca

Item: RELOCATE EXISTING SIGN TO NEW PO Furnish all material, labor and equipment required to reloca

Commodity Code: 906-38 General Construction - Architectural

Quantity: 1.0000 **Unit of Measure:** AS

Requested Delivery Date: 07/01/2023

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Line 37: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: RAISED PAVEMENT MARKER (TYPE B W Furnish all material, labor and equipment required to instal

Commodity 906-38 General Construction - Architectural
Code:

Quantity: 20.0000 **Unit of** EA
Measure:

Requested 07/01/2023
Delivery
Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Line 38: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: PAINTED PAVEMENT MARKINGS - FINA Furnish all material, labor and equipment required to instal

Commodity 906-38 General Construction - Architectural
Code:

Quantity: 1.0000 **Unit of** LS
Measure:

Requested 07/01/2023
Delivery
Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Line 39: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: THERMOPLASTIC PAVEMENT MARKINGS Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 66.5100 **Unit of Measure:** LF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 40: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: THERMOPLASTIC PAVEMENT MARKINGS Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 34.5300 **Unit of Measure:** LF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 41: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Item: THERMOPLASTIC PAVEMENT MARKINGS Furnish all material, labor and equipment required to instal

Commodity 906-38 General Construction - Architectural
Code:

Quantity: 581.0000 **Unit of** LF
Measure:

Requested 07/01/2023
Delivery
Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Line 42: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: THERMOPLASTIC PAVEMENT MARKINGS Furnish all material, labor and equipment required to instal

Commodity 906-38 General Construction - Architectural
Code:

Quantity: 528.0000 **Unit of** LF
Measure:

Requested 07/01/2023
Delivery
Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Line 43: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: THERMOPLASTIC PAVEMENT MARKINGS Furnish all material, labor and equipment required to instal

Commodity 906-38 General Construction - Architectural
Code:

Quantity: 264.0000 **Unit of** LF
Measure:

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 44: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: THERMOPLASTIC PAVEMENT MARKINGS Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 264.0000 **Unit of Measure:** LF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 45: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: CONDUIT, F&I Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 132.0000 **Unit of Measure:** LF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On No

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

**Charges
Allowed:**

Line 46: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: PULL & SPLICE BOX, F&I, 13"X24" Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 3.0000 **Unit of Measure:** EA

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 47: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: LIGHTING CONDUCTORS, F&I, INSULA Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 567.0000 **Unit of Measure:** LF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 48: Furnish all material, labor and equipment required to remove

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Description: Furnish all material, labor and equipment required to remove

Item: LIGHTING CONDUCTORS, REMOVE & DI Furnish all material, labor and equipment required to remove

Commodity Code: 906-38 General Construction - Architectural

Quantity: 167.0000 **Unit of Measure:** LF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 49: Furnish all material, labor and equipment required to remove

Description: Furnish all material, labor and equipment required to remove

Item: LIGHT POLE COMPLETE, REMOVE POLE Furnish all material, labor and equipment required to remove

Commodity Code: 906-38 General Construction - Architectural

Quantity: 2.0000 **Unit of Measure:** EA

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 50: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: LOAD CENTER, F&I Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Quantity: 1.0000

Unit of Measure: EA

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 51: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: LIGHTING-SPECIAL LIGHTING SYSTEM Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 1.0000

Unit of Measure: LS

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 52: Furnish all material, labor and equipment required to remove

Description: Furnish all material, labor and equipment required to remove

Item: UTILITY PIPE, REMOVE & DISPOSE, Furnish all material, labor and equipment required to remove

Commodity Code: 906-38 General Construction - Architectural

Quantity: 164.5000

Unit of Measure: LF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Response:

Allowed:

Responses:

Add On No
Charges
Allowed:

Line 53: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: UTILITY PIPE - DUCTILE IRON/CAST Furnish all material, labor and equipment required to instal

Commodity 906-38 General Construction - Architectural
Code:

Quantity: 164.7000 **Unit of** LF
Measure:

Requested 07/01/2023
Delivery
Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Line 54: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: UTILITY FITTINGS, DUCTILE IRON/C Furnish all material, labor and equipment required to instal

Commodity 906-38 General Construction - Architectural
Code:

Quantity: 8.0000 **Unit of** EA
Measure:

Requested 07/01/2023
Delivery
Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Line 55: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: UTILITY FITTINGS, DUCTILE IRON/C Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 2.0000 **Unit of Measure:** EA

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 56: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: UTILITY FIXTURE - LINE STOP ASSE Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 2.0000 **Unit of Measure:** EA

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 57: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: UTILITY FIXTURE - VALVE/METER BO Furnish all material, labor and equipment required to instal

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Commodity Code: 906-38 General Construction - Architectural

Quantity: 3.0000 **Unit of Measure:** EA

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 58: Furnish all material, labor and equipment required to monito

Description: Furnish all material, labor and equipment required to monito

Item: MONITOR EXISTING STRUCTURES - IN Furnish all material, labor and equipment required to monito

Commodity Code: 906-38 General Construction - Architectural

Quantity: 1.0000 **Unit of Measure:** LS

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 59: Furnish all material, labor and equipment required to monito

Description: Furnish all material, labor and equipment required to monito

Item: MONITOR EXISTING STRUCTURES - VI Furnish all material, labor and equipment required to monito

Commodity Code: 906-38 General Construction - Architectural

Quantity: 1.0000 **Unit of Measure:** LS

Requested Delivery Date: 07/01/2023

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Line 60: Furnish all material, labor and equipment required to remove

Description: Furnish all material, labor and equipment required to remove

Item: REMOVAL OF EXISTING STRUCTURES/B Furnish all material, labor and equipment required to remove

Commodity 906-38 General Construction - Architectural
Code:

Quantity: 48,550.0000 **Unit of** SF
Measure:

Requested 07/01/2023
Delivery
Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Line 61: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: CONCRETE CLASS II, APPROACH SLAB Furnish all material, labor and equipment required to instal

Commodity 906-38 General Construction - Architectural
Code:

Quantity: 84.8200 **Unit of** SY
Measure:

Requested 07/01/2023
Delivery
Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Line 62: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: CONCRETE CLASS IV, SUPERSTRUCTUR Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 253.7200 **Unit of Measure:** CY

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 63: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: CONCRETE CLASS IV, BRIDGE SUBSTR Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 122.6300 **Unit of Measure:** CY

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 64: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Item: CONCRETE CLASS IV, BULKHEAD Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 33.3400 **Unit of Measure:** CY

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 65: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: PLAIN NEOPRENE BEARING PAD Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 5.8000 **Unit of Measure:** CF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 66: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: REINFORCING STEEL, BRIDGE SUPERS Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 67,937.0000 **Unit of Measure:** LB

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 67: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: REINFORCING STEEL, BRIDGE SUBSTR Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 16,143.0000 **Unit of Measure:** LB

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 68: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: REINFORCING STEEL, BULKHEAD Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 1,130.0000 **Unit of Measure:** LB

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On No

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

**Charges
Allowed:**

Line 69: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: REINFORCING STEEL, APPROACH SLAB Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 16,522.0000 **Unit of Measure:** LB

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 70: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: PRESTRESSED CONCRETE PILING, 18" Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 1,190.0000 **Unit of Measure:** LF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 71: Furnish all material, labor and equipment required to instal

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Description: Furnish all material, labor and equipment required to instal

Item: ANCHOR BAR, STEEL Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 30.0000 **Unit of Measure:** EA

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 72: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: SHEET PILING STEEL, F&I PERMANEN Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 6,939.0000 **Unit of Measure:** SF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 73: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: TEST PILES - PRESTRESSED CONCRET Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Quantity: 160.0000

Unit of Measure: LF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 74: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: BRIDGE DECK EXPANSION JOINT, NEW Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 100.0000

Unit of Measure: LF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 75: Furnish all material, labor and equipment required to instal

Description: Furnish all material, labor and equipment required to instal

Item: CONCRETE BARRIER, BRIDGE CORRAL Furnish all material, labor and equipment required to instal

Commodity Code: 906-38 General Construction - Architectural

Quantity: 260.0000

Unit of Measure: LF

Requested Delivery Date: 07/01/2023

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Event # 94-0: South Ocean Drive Bridge Replacement -SURTAX (P12087 Re-Bid)

Response:	Allowed:	Responses:
<div>Add On No</div> <div>Charges</div> <div>Allowed:</div>		

**CITY OF FORT LAUDERDALE
CONTRACT AND SPECIFICATIONS PACKAGE**

BID/EVENT NO. 94

PROJECT NO. 12087 RE-BID

**SOUTH OCEAN DRIVE BRIDGE
REPLACEMENT [SURTAX]**



**CONNIE HAYMAN
PROJECT MANAGER II**

**MAUREEN LEWIS, MBA, CPPB
SENIOR PROCUREMENT SPECIALIST**
Telephone: (954) 828-5239 E-mail: maureenl@fortlauderdale.gov

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https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/implemented/specbooks/january2019/files/119ebook.pdf?sfvrsn=abd5f2d5_6

BROWARD COUNTY SURTAX DOCUMENTS (See website below for required documents)

[Small Business Compliance \(broward.org\)](http://smallbusiness.broward.org)

Application for Evaluation of Good Faith Efforts
CBE Final Monthly Utilization Report
County Business Enterprise (CBE) Monthly Utilization Report
Letter of Intent between Bidder/Offeror and CBE Firm/Supplier
Statement of CBE/SBE Assurance

Note: The following documents are available electronically for completion and must be returned with your bid along with the County's Surtax Documents, your bid security, proof of insurance, and proof of required licenses/certifications.

[COFL Plans Request Form](#)
[CITB Specific References Form](#)
[CITB Questionnaire Sheet](#)
[CITB Trench Safety](#)
[Non-Collusion Statement](#)
[Non-Discrimination Certification Form](#)
[E-Verify Affirmation Statement](#)
[Construction Bid Certification Page](#)

INVITATION TO BID

Sealed bids will be received electronically until **2:00 p.m.**, local time, on **WEDNESDAY, JUNE 7, 2023**, and opened online immediately for **BID/EVENT NO. 94, PROJECT NO., 12087 RE-BID, SOUTH OCEAN DRIVE BRIDGE REPLACEMENT**.

All openings will be held on the City's online strategic sourcing platform, INFOR, (www.INFOR.COM). Once the Procurement Specialist opens the solicitation, the bid tabulations may be viewed immediately on a computer, laptop, cell phone, or any other device with WiFi access.

Anyone requesting assistance or having further inquiry in this matter must contact the Procurement Specialist indicated in the solicitation, via the Question and Answer (Q&A) platform on the City's online strategic sourcing platform before the Last Day for Questions indicated in the Solicitation.

This Project is located at South Ocean Drive between Mayan Drive and Marion Drive, in the City of Fort Lauderdale, Florida. The work to be accomplished under this contract includes, but is not limited to, complete demolition of the existing bridge and construction of a new bridge in the same location.

Drawing Plans: The building plans, blueprints, schematic drawings, and diagrams, including draft, preliminary, and final formats, which depict the internal layout and structural elements of the Project are exempt from public record pursuant to Section 119.071, Florida Statutes (2022). Interested parties must log into INFOR.COM to access the City of Fort Lauderdale Plans Request Form, **AND** must follow the instructions contained therein.

Access to the site visit (if any) is only available to pre-approved plans-holders originating from the City of Fort Lauderdale Plans Request Form. Non-approved attendees will not be allowed to participate in the site visit. To avoid any issues, Plans Custodians should bring proof of approval to the site visit.

Goal Participation: This solicitation includes the following Broward County certified County Business Enterprises (CBE) goal: **30% CBE Goal**. (See Special Conditions for Goal Participation Instructions)

NOTE: Payment on this contract will be made by check.

Licensing Requirements: Possession of a Florida Certified General Contractor License is required for this Project.

Pre-Bid Meeting/Site visit: A pre-bid meeting and site visit will be held on **TUESDAY, MAY 16, 2023, at 10:00 a.m.**, local time, at the north side of the bridge, near the intersection of South Ocean Drive and Mayan Drive, Fort Lauderdale, Florida 33316.

While attendance is not mandatory, it is strongly suggested that all contractors participate in the pre-bid conference. It will be the sole responsibility of the bidder to inspect the City's location and become familiar with the scope of the City's requirements and systems prior to participating in the

INVITATION TO BID (continued)

pre-bid meeting and submitting an offer. No variation in price or conditions shall be permitted based upon a claim of ignorance. Submission of a bid will be considered evidence that the bidder has familiarized himself/herself/itself with the nature and extent of the work, equipment, materials, and labor required.

Bid Security: A certified check, cashier's check, bank officer's check or bid bond for **FIVE percent (5%)** of the bid amount, made payable to the City of Fort Lauderdale, Florida, shall accompany each offer.

Bid Bonds:

Bidders can submit bid bonds **three** different ways.

- 1) Bidders may submit bid bonds **electronically** directly through the City's online strategic sourcing platform using **Surety 2000**.
- 2) Bidders may **upload** their original executed bid bond on the City's online strategic sourcing platform to accompany their electronic bids, and **mail** the original, signed and sealed hard copy to the Finance Department, Procurement Services Division, 100 North Andrews Avenue, Room 619, Fort Lauderdale, Florida 33301-1016, within **five (5)** business days after bid opening, with the company name, bid number and title clearly indicated on the envelope.
- 3) Bidders can **mail** their bid bond to the Finance Department, Procurement Services Division, 100 North Andrews Avenue, Room 619, Fort Lauderdale, Florida 33301-1016, before time of bid opening, with the company name, bid number and title clearly indicated on the envelope.
NOTE: Bond must be received in Procurement and time stamped before bid opening.

It will be the sole responsibility of the bidder to ensure that its bid is submitted prior to the bid opening date and time listed. **PAPER BID SUBMITTALS WILL NOT BE ACCEPTED. BIDS MUST BE SUBMITTED ELECTRONICALLY VIA THE CITY'S ONLINE STRATEGIC SOURCING PLATFORM.**

Certified Checks, Cashier's Checks and Bank Drafts:

These **CANNOT** be submitted via the City's online strategic sourcing platform, nor are their images allowed to be uploaded and submitted with your electronic bid. These forms of securities, as well as hard copy bid bonds, must be received on or before the Invitation to Bid (ITB) opening date and time, at the Finance Department, Procurement Services Division, 100 North Andrews Avenue, Suite 619, Fort Lauderdale, Florida 33301-1016, with the bid number and title clearly indicated on the envelope.

It is the bidder's sole responsibility to ensure that its bid bond or other bid security is received by the Procurement Services Division before time of bid opening. Failure to adhere to this requirement may be grounds to consider the bid as non-responsive.

INVITATION TO BID (continued)

The City of Fort Lauderdale reserves the right to waive any informality in any or all bids and to reject any or all bids.

For information concerning technical specifications, please utilize the Q&A platform provided on the City's online strategic sourcing platform. Questions of a material nature must be received prior to the cut-off date specified in the solicitation. Material changes, if any, to the scope of services or bidding procedures, will only be transmitted by written addendum. **Bidders please note:** No part of your bid can be submitted via FAX. No variation in price or conditions shall be permitted based upon a claim of ignorance.

Submission of a bid will be considered evidence that the bidder has familiarized himself/herself/itself with the nature and extent of the work, equipment, materials, and labor required. The entire bid response must be submitted in accordance with all specifications contained in this solicitation.

Information on bid results and projects currently out to bid can be obtained on the City's website - <https://www.fortlauderdale.gov/government/departments-a-h/finance/procurement-services>. For general inquiries, please call (954) 828-5933.

INSTRUCTIONS TO BIDDERS

The following instructions are given for the purpose of guiding bidders in properly preparing their bids or proposals. These directions have equal force and weight with the specifications, and strict compliance is required with all of these provisions.

QUALIFICATIONS OF BIDDERS – No bid will be accepted from, nor will any contract be awarded to, any person or entity that is in arrears to the City of Fort Lauderdale, upon any debt or contract, or who has defaulted, as surety or otherwise, upon any obligation to the City, or who is deemed irresponsible or unreliable by the City Commission of Fort Lauderdale.

CONCERNING SUB-CONTRACTORS, SUPPLIERS, AND OTHERS - The amount of work that is sublet by the Bidder shall be limited by the condition that the Bidder shall, with his own organization, perform at least forty percent (40%) of the total dollar amount of the Work to be performed under the Agreement.

PERSONAL INVESTIGATION - Bidders shall satisfy themselves by personal investigation, and by such other means as they may think necessary or desirable, as to the conditions affecting the proposed work and the cost. No information derived from maps, plans, specifications, or from the Engineer, City Manager, or their assistants shall relieve the Contractor from any risk or from fulfilling all terms of the contract.

INCONSISTENCIES – Any seeming inconsistency between different provisions of the plans, specifications, proposal or contract, or any point requiring explanation must be inquired by the bidder, in writing, at least ten (10) days prior to the time set for opening proposals. After proposals are opened, the bidders shall abide by the decision of the Engineer as to such interpretation.

ADDENDA AND INTERPRETATIONS - No interpretations of the meaning of the plans, specifications or other contract documents will be made orally to any bidder. Prospective bidders must request such interpretation in writing as instructed in the bid package. To be considered, such request must be received by the Questions and Answers deadline as indicated in the City's online strategic sourcing platform. Material changes, if any, to the scope of services or bidding procedures will only be transmitted by written addendum. **It is the bidder's responsibility to verify if addenda have been issued in** the City's online strategic sourcing platform. Failure of any bidder to receive any such addenda or interpretation shall not relieve any bidder from any obligation under the bid as submitted. All addenda so issued shall become a part of the contract document. **Bidder** shall verify in the City's online strategic sourcing platform that the bidder has all addenda before submitting a bid.

LEGAL CONDITIONS - Bidders are notified to familiarize themselves with the provisions of the laws of the State of Florida relating to hours of labor on municipal work, and with the provisions of the laws of the State of Florida, the Charter and ordinances of the City of Fort Lauderdale, and applicable ordinances of Broward County, Florida.

PUBLIC ENTITY CRIMES - Pursuant to Section 287.133, Florida Statutes (2022), as may be amended or revised, a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity, may not submit a bid, proposal or reply on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids, proposals or replies on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, Florida Statutes, for Category Two for a period of thirty-six (36) months following the date of being placed on the convicted vendor list.

INSTRUCTIONS TO BIDDERS (continued)

FORMS OF BIDS - Each bid and its accompanying statements MUST BE SUBMITTED ELECTRONICALLY, IN GOOD ORDER WITH ALL BLANKS COMPLETED.

The proposal must be signed by one duly authorized to do so, and in case signed by a deputy or subordinate, the principal's properly written authority to such deputy or subordinate must accompany the proposal. No proposal will be accepted, for any reason whatsoever, which is not submitted to the City as stated above, within the specified time.

INSURANCE - Contractor shall provide and shall require all of its sub-contractors to provide, pay for, and maintain in force at all times during the term of the Agreement, such insurance, including Property Insurance (Builder's Risk), Commercial General Liability Insurance, Business Automobile Liability Insurance, Workers' Compensation Insurance, Employer's Liability Insurance, and Umbrella/Excess Liability, as stated below. Such policy or policies shall be issued by companies authorized to do business in the State of Florida and having agents upon whom service of process may be made in the State of Florida.

BID BOND - A certified check, cashier's check, or bank officer's check, made payable to the City of Fort Lauderdale, or a bid bond in favor of the City of Fort Lauderdale meeting the requirements of Section 7.1 of the Transportation Surtax Addendum for Municipal Construction Contracts ("Transportation Surtax Addendum"), shall accompany each bid as evidence of the good faith and responsibility of the bidder. The amount of the check or bond shall be retained by the City as liquidated damages in the event the bidder whose bid is accepted refuses or fails to enter into a contract for the execution of the work solicited in this Invitation to Bid or fails to furnish to the City a performance bond and payment bond in accordance with Articles 6 and 7 of the Transportation Surtax Addendum. The bid bond or check shall be a guarantee that the successful bidder will promptly execute a contract satisfactory to the City for the work solicited in this Invitation to Bid and furnish to the City a performance bond and payment bond in accordance with Articles 6 and 7 of the Transportation Surtax Addendum.

Following the full execution of a contract for the work solicited in this Invitation to Bid and the successful bidder's provision of a performance bond and payment bond to the City in accordance with Articles 6 and 7 of the Transportation Surtax Addendum, in the event bid security was provided by check, the amount of the bid security accompanying the successful bidder's bid will be refunded to the successful bidder, or in the event bid security was provided by a bond, the bond accompanying the successful bidder's bid will be returned to the successful bidder. In the event the successful bidder fails to enter into, execute, and deliver a contract satisfactory to the City for the work solicited in this Invitation to Bid and furnish to the City a performance bond and payment bond in accordance with Articles 6 and 7 of the Transportation Surtax Addendum within ten (10) days after the City provides notice to the successful bidder to deliver the executed contract and the performance and payment bonds, the bid bond shall thereupon be payable to the City of Fort Lauderdale, or in the case of a check, the City shall thereupon retain the amount of the check, as liquidated damages. The City's retention of such amount shall not be construed as a penalty or forfeiture.

FILLING IN BIDS - All prices must be electronically submitted in the bid pages, and all bids must fully cover all items for which prices are asked and no other. Where more than one person is interested, it is required that all persons interested or their legal representative make all verification and subscribe to the proposal.

INSTRUCTIONS TO BIDDERS (continued)

PRICES QUOTED: Deduct any discount offered and quote firm net unit prices. In the case of a discrepancy in computing the amount of the bid, the unit price quoted will govern. All prices quoted shall be F.O.B. destination, freight prepaid (Bidder pays and bears freight charges, Bidder owns goods in transit and files any claims), unless otherwise stated in Special Conditions. Each item must be bid separately. No attempt shall be made to tie any item or items contained in the ITB with any other business with the City.

BIDS FIRM FOR ACCEPTANCE: Bidder warrants, by virtue of bidding, that his bid and the prices quoted in his bid will be firm for acceptance by the City for a period of one hundred and twenty (120) days from the date of bid opening unless otherwise stated in the ITB. The City will award a contract within this time period or request of the recommended awarded vendor an extension to hold pricing, until products/services have been awarded.

ADDITIONAL ITEMS OR SERVICES: The City may require additional items or services of a similar nature, but not specifically listed in the contract. The Contractor agrees to provide such items or services, and shall provide the City prices on such additional items or services. If the price(s) offered are not acceptable to the City, and the situation cannot be resolved to the satisfaction of the City, the City reserves the right to procure those items or services from other vendors, or to cancel the contract upon giving the Contractor thirty (30) days' written notice.

DELETION OR MODIFICATION OF SERVICES: The City reserves the right to delete any portion of the Contract at any time without cause, and if such right is exercised by the City, the total fee shall be reduced in the same ratio as the estimated cost of the work deleted bears to the estimated cost of the work originally planned. If work has already been accomplished on the portion of the Contract to be deleted, the Contractor shall be paid for the deleted portion on the basis of the estimated percentage of completion of such portion.

If the Contractor and the City agree on modifications or revisions to the task elements, after the City has approved work to begin on a particular task or project, and a budget has been established for that task or project, the Contractor will submit a revised budget to the City for approval prior to proceeding with the work.

CANCELLATION FOR UNAPPROPRIATED FUNDS: The obligation of the City for payment to a Contractor is limited to the availability of funds appropriated in a current fiscal period, and continuation of the contract into a subsequent fiscal period is subject to appropriation of funds, unless otherwise authorized by law.

CAUSES FOR REJECTION - No proposal will be canvassed, considered or accepted which, in the opinion of the City Commission, is informal or unbalanced, or contains inadequate or unreasonable prices for any items; each item must carry its own proportion of the cost as nearly as is practicable. Any alteration, erasure, interlineation, or failure to specify bids for all items called for in the schedule shall render the proposal informal.

REJECTION OF BIDS - The City reserves the right to reject any bid if the evidence submitted by the bidder, or if the investigation of such bidder, fails to satisfy the City that such bidder is properly qualified to carry out the obligations and to complete the work contemplated. Any or all bids will be rejected, if there is reason to believe that collusion exists among bidders. A proposal will be considered irregular and may be rejected, if it shows serious omissions, alterations in form, additions not called for, conditions or unauthorized alternates, or irregularities of any kind. The City reserves the right to reject any or all bids and to waive such technical errors as may be deemed best for the interests of the City.

INSTRUCTIONS TO BIDDERS (continued)

BID PROTEST PROCEDURE: Any bidder who is not recommended for award of a contract and who alleges a failure by the City to follow the City's procurement ordinance or any applicable law may protest to the Procurement Division – Chief Procurement Officer, by delivering a letter of protest within five (5) days after a Notice of Intent to award is posted on the City's website at the following link:

<https://www.fortlauderdale.gov/government/departments-a-h/finance/procurement-services/notices-of-intent-to-award>

The complete protest ordinance may be found on the City's website at the following link:

https://library.municode.com/fl/fort_lauderdale/codes/code_of_ordinances?nodeId=COOR_CH2AD_ARTVFI_DIV2PR_S2-182DIREPRAWINAW

WITHDRAWALS - Any bidder may, without prejudice to such bidder, withdraw a proposal at any time prior to the expiration of the time during which bids may be submitted. Such request for withdrawal must be in writing and signed in the same manner and by the same person who signed the proposal. After expiration of the period for receiving proposals, no proposal can be withdrawn, modified, or explained.

CONTRACT - The bidder to whom award is made shall execute a written contract to do the Work and maintain the same in good repair until final acceptance by the proper authorities, and shall furnish good and sufficient bonds as specified within ten (10) days after being notified of the award. If the bidder to whom the first award is made fails to enter into a contract as provided, the award may be annulled and the contract let to the next lowest bidder who is reliable, responsible, and responsive in the opinion of the City Commission, and that bidder shall fulfill every stipulation and obligation as if such bidder were the original party to whom award was made.

The contract shall provide that the Contractor agrees to correct any defective or faulty work or material, which may appear within one (1) year after Final Completion and acceptance of the Work, as provided in the Transportation Surtax Addendum, or within one (1) year after completion of the work and the Contractor's receipt of final payment, whichever is later.

ENFORCEMENT OF SPECIFICATIONS - Copies of the specifications will be placed in the hands of all the assistants to the Engineer and Inspectors employed on the Work, who shall enforce each and every requirement of the contract. Such assistants shall have no authority to vary from such requirements.

DRAWING PLANS – In order to obtain plans for the South Ocean Drive Bridge, log into the City's online strategic sourcing platform, complete a City of Fort Lauderdale Plans Request Form, and submit it to the City in accordance with instructions contained therein.

Access to the site visit (if any) is only available to pre-approved plans-holders originating from the City of Fort Lauderdale Plans Request Form. Non-approved attendees will not be allowed to participate in the site visit, if any. To avoid any issues, Plans Custodians should bring proof of approval to the site visit.

Pursuant to Subsection 119.071(3)(b), Florida Statutes (2022), building plans, blueprints, schematic drawings, and diagrams, including draft, preliminary, and final formats, which depict the internal layout and structural elements of the South Ocean Drive Bridge (collectively "Plans") are exempt from public inspection and copying except to a licensed architect, engineer, or contractor who is performing work on or related to the South Ocean Drive Bridge. **The entities and persons receiving the Plans shall maintain the exempt status of the Plans.**

INSTRUCTIONS TO BIDDERS (continued)

Each bidder who is not awarded the contract for construction of the South Ocean Drive Bridge and each potential bidder who obtains the Plans ("potential bidder") agrees, at such person's or entity's expense, to return tangible Plans and any copies thereof to the City, destroy any electronic Plans, and certify the destruction of any electronic Plans to the City in writing, within fourteen days following the City Commission's award of the contract to the successful bidder. The failure by an unsuccessful bidder or potential bidder to return tangible Plans and any copies thereof to the City, destroy any electronic Plans, and certify the destruction of any electronic Plans to the City in writing within fourteen days following the City Commission's award of the contract to the successful bidder, shall constitute grounds for suspension of the unsuccessful bidder's or potential bidder's right to be included on a vendor database pursuant to Section 2-183, Code of Ordinances of the City of Fort Lauderdale, Florida, and for the City to pursue any remedy at law or in equity, in which case such unsuccessful bidder or potential bidder agrees to pay the City's attorney fees and costs. The failure to maintain the exempt status of the Plans by a bidder who is not awarded the contract or by a potential bidder, shall constitute grounds for suspension of the bidder's or potential bidder's right to be included on a vendor database pursuant to Section 2-183, Code of Ordinances of the City of Fort Lauderdale, Florida, and for the City to pursue any remedy at law or in equity, in which case such bidder or potential bidder agrees to pay the City's attorney fees and costs.

Any disclosure of the Plans by the successful bidder to any person or entity other than the City or a licensed architect, engineer, or contractor who is performing work on or related to the South Ocean Drive Bridge, shall constitute a material breach of the ensuing agreement by the successful bidder and grounds for the City immediately to terminate the agreement, suspend the successful bidder's right to be included on a vendor database pursuant to Section 2-183, Code of Ordinances of the City of Fort Lauderdale, Florida, and pursue any remedy at law or in equity, in which case the successful bidder agrees to pay the City's attorney fees and costs. This paragraph shall survive the expiration or termination of the ensuing agreement between the City and the successful bidder.

SURETY BOND – The Contractor shall execute and record in the public records of Broward County, Florida, a performance bond and a payment bond in an amount at least equal to the Contract Price with a surety insurer authorized to do business in the State of Florida as surety in accordance with Articles 6 and 7 of the Transportation Surtax Addendum and Section 255.05, Florida Statutes (2022), as may be amended or revised, as security for the faithful performance and payment of all of the Contractor's obligations under the Contract Documents.

The Contractor shall furnish a performance bond and a payment bond in compliance with Articles 6 and 7 of the Transportation Surtax Addendum and Section 255.05, Florida Statutes (2022), written by a surety corporation authorized to issue surety bonds in the State of Florida and holding a certificate of authority to provide surety bonds from the United States Secretary of the Treasury, in an amount equal to the total amount payable by the terms of the contract, executed and issued by a resident agent licensed by and having an office in the State of Florida, representing such surety, conditioned on the due and faithful performance of the Work, and providing in addition to all other conditions, that if the Contractor or any of the Contractor's subcontractors fails to duly pay for any labor, materials, or other supplies used or consumed by such Contractor or any of the Contractor's subcontractors, in performance of the Work contracted to be done, the surety will pay the same in the amount not exceeding the sum provided in such bonds, together with interest at the rate of fifteen percent (15%) per annum, and that the surety shall indemnify and hold harmless the City of Fort Lauderdale to the extent of any and all payments that the City may be required to make under the law in connection with carrying out the contract.

The Contractor is required at all times to have a valid performance bond and payment bond in force covering the Work being performed. A failure to have such bond in force at any time shall constitute a default on the part of the Contractor. It shall automatically constitute a failure by the Contractor to meet the above requirements and a material breach in the event of disqualification of the surety that issued

INSTRUCTIONS TO BIDDERS (continued)

the performance and payment bonds to issue surety bonds or otherwise transact business in the State of Florida or in the event of revocation of the surety's certificate of authority to provide surety bonds from the United States Secretary of the Treasury.

Such bond shall continue in effect for one (1) year after completion and acceptance of the Work or for one (1) year after Final Completion and acceptance of the Work as provided in the Transportation Surtax Addendum, whichever is longer, with liability equal to at least twenty-five percent (25%) of contract price, or an additional bond shall be conditioned that the Contractor will correct any defective or faulty work or material which appear within one (1) year after completion of the contract or one (1) year after Final Completion and acceptance of the Work as provided in the Transportation Surtax Addendum, whichever is later, upon notification by the City, except in contracts which are concerned solely with demolition work, in which cases twenty-five percent (25%) liability will not be applicable.

AUDIT OF CONTRACTOR'S RECORDS - In addition to the audit rights set forth in the Transportation Addendum, upon execution of the Contract, the City reserves the right to conduct any necessary audit of the Contractor's records. Such an audit, or audits, may be conducted by the City or its representatives at any time prior to final payment, or thereafter, for a period up to three (3) years. The City may also require submittal of the records from either the Contractor, the Subcontractor, or both. For the purpose of this Section, records shall include all books of account, supporting documents and papers deemed necessary by the City to assure compliance with the contract provisions.

Failure of the Contractor or Subcontractor to comply with these requirements may result in disqualification or suspension from bidding for future contracts or disapproval as a Subcontractor at the option of the City.

The Contractor shall assure that each of its Subcontractors will provide access to its records pertaining to the project upon request by the City.

PERIODIC ESTIMATE FOR PARTIAL PAYMENT - After the Contractor has submitted a periodic estimate for partial payment, approved and certified by the Public Works Department, the City shall make payment in the manner provided in the Contract Documents and in accordance with Florida's Prompt Payment Act, Section 218.70, et. seq., Florida Statutes (2022), as may be amended or revised.

RESERVATION FOR AWARD AND REJECTION OF BIDS - The City reserves the right to accept or reject any or all bids, part of bids, and to waive minor irregularities or variations to specifications contained in bids, and minor irregularities in the bidding process. The City also reserves the right to award the contract on a split order basis, lump sum basis, individual item basis, or such combination as shall best serve the interest of the City. The City reserves the right to make an award to the responsive and responsible bidder whose product or service meets the terms, conditions, and specifications of the ITB and whose bid is considered to best serve the City's interest. In determining the responsiveness of the offer and the responsibility of the Bidder, the following shall be considered when applicable: the ability, capacity and skill of the Bidder to perform as required; whether the Bidder can perform promptly, or within the time specified, without delay or interference; the character, integrity, reputation, judgment, experience and efficiency of the Bidder; the quality of past performance by the Bidder; the previous and existing compliance by the Bidder with related laws and ordinances; the sufficiency of the Bidder's financial resources; the availability, quality and adaptability of the Bidder's supplies or services to the required use; the ability of the Bidder to provide future maintenance, service or parts; the number and scope of conditions attached to the bid.

INSTRUCTIONS TO BIDDERS (continued)

DEBARRED OR SUSPENDED BIDDERS - The Bidder certifies, by submission of a response to this solicitation, that neither it nor its principals and sub-contractors are presently debarred or suspended by any Federal department or agency.

LOBBYING ACTIVITIES - ALL BIDDERS PLEASE NOTE: Any bidder submitting a response to this solicitation must comply, if applicable, with Section 2-260 *et seq.*, Code of Ordinances of the City of Fort Lauderdale, Florida, and Resolution No. 07-101 of the City Commission of the City of Fort Lauderdale, Florida, ("Resolution No. 07-101"). A copy of Resolution No. 07-101 may be obtained from the City Clerk's Office at City Hall, 100 N. Andrews Avenue, 7th Floor, Fort Lauderdale, Florida 33301.

GENERAL CONDITIONS

Unless otherwise modified in the Project's Special Conditions, the following General Conditions shall be part of the Contract:

GC - 01 - DEFINITIONS - The following words and expressions, or pronouns used in their stead, shall wherever they appear in the Contract and the Contract Documents, be construed as follows:

"Addendum" or "Addenda" - shall mean the additional Contract provisions issued in writing, by the Engineer, prior to the receipt of bids.

"Bid" – shall mean the offer or proposal of the Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

"Bidder" – shall mean an entity or individual submitting a bid for this Project, acting directly or through a duly authorized representative.

"Bonds" –shall mean bid, performance and payment bonds and other instruments of security, furnished by Contractor and his surety in accordance with the Contract Documents.

"City" or "municipality" – shall mean the City of Fort Lauderdale, Florida, a Florida municipal corporation. In the event the City exercises its regulatory authority as a government body, the exercise of such regulatory authority and the enforcement of any rules, regulations, codes, laws and ordinances shall be deemed to have occurred pursuant to City's authority as a governmental body and shall not be attributable in any manner to the City as a party to this Contract.

"Consultant" – shall mean the architect or engineer who has contracted with the City or who is an employee of the City, and provides the professional services for the project.

"Contractor" – shall mean the successful Bidder who has been employed by the City to perform the construction and related services for the project.

"Contract Work" - shall mean everything expressed or implied to be required to be furnished and furnished by the Contractor by any one or more of the parts of the Contract Documents referred to in the Contract hereof. In the case of any inconsistency in or between any parts of this Contract, the Project Manager shall determine which shall prevail.

"Design Documents" – shall mean the construction plans and specifications included as part of a Bid/Proposal Solicitation prepared either by the City or by the Consultant under a separate Agreement with the City.

"Engineer" - includes the terms "professional engineer" and "licensed engineer" and means a person who is licensed to engage in the practice of engineering under Florida Statute, Chapter 471. An Engineer may be a City employee or a consultant hired by the City.

"Extra Work" - shall mean work other than that required by the Contract.

"Inspector" – shall mean an authorized representative of the City assigned to make necessary inspections of materials furnished by Contractor and of the Work performed by Contractor.

GENERAL CONDITIONS (continued)

"Notice" - shall mean written notice sent by certified United States mail, return receipt requested, or sent by commercial express carrier with acknowledgement of delivery, or via fax or email, or by hand delivery with a request for a written receipt of acknowledgment of delivery and shall be served upon the Contractor either personally or to its place of business listed in the Bid.

"Owner" - shall mean the City of Fort Lauderdale.

"Project Manager" - shall mean a professional designated by the City to manage the Project under the supervision and direction of the Public Works Director or designee.

"Public Works Director" – shall mean the Public Works Director of the City of Fort Lauderdale.

"Site" - shall mean the area upon or in which the Contractor's operations are carried out and such other areas adjacent thereto as may be designated as such by the Project Manager.

"Sub-contractor" or "Subcontractor" - shall mean any person, firm, company, corporation or other entity, other than employees of the Contractor, who or which contracts with the contractor, to furnish, or actually furnishes labor and materials, or labor and equipment, or labor, materials and equipment at the site.

"Surety" - shall mean any corporation or entity that executes, as Surety, the Contractor's performance and payment bond securing the performance of this Contract.

GC - 02 - SITE INVESTIGATION AND REPRESENTATION - The Contractor acknowledges that it has satisfied itself as to the nature and location of the Work under the Contract Documents, the general and local conditions of the Site, particularly those bearing upon availability of transportation, disposal, handling and storage of materials, availability of labor, water, electric power, and roads, field conditions, the type of equipment and facilities needed preliminary to and during the prosecution of the Work and all other matters which can in any way affect the Work or the cost thereof under the Contract Documents.

The Contractor acknowledges that it has conducted extensive tests, examinations and investigations and represents and warrants a thorough familiarization with the nature and extent of the Contract Documents, the Work, locality, soil conditions, moisture conditions and all year-round local weather and climate conditions (past and present), and, in reliance on such tests, examination and investigations conducted by Contractor and the Contractor's experts, has determined that no conditions exist that would in any manner affect the Bid Price and that the project can be completed for the Bid Price submitted.

Any failure by the Contractor to acquaint itself with all the Site conditions shall not relieve Contractor from responsibility for properly estimating the difficulty or cost thereof under the Contract Documents.

GC - 03 - SUBSTITUTIONS - If the Contractor desires to use materials and/or products of manufacturer's names different from those specified in the Contract Documents, the Bidder requesting the substitution shall make written application as described herein. The burden of proving the equality of the proposed substitution rests on the Contractor making the request. To be acceptable, the proposed substitution shall meet or exceed all expressed requirements of the Contract Documents and shall be submitted upon the Contractor's letterhead. The following requirements shall be met in order for the substitution to be considered:

1. Requests for substitution shall be accompanied by such technical data, as the party making the request desires to submit. The Project Manager will consider reports from

GENERAL CONDITIONS (continued)

reputable independent testing laboratories, verified experience records from previous users and other written information valid in the circumstances; and

2. Requests for substitution shall completely and clearly indicate in what respects the materials and/or products differ from those indicated in the Contract Documents; and
3. Requests for substitution shall be accompanied by the manufacturer's printed recommendations clearly describing the installation, use and care, as applicable, of the proposed substitutions; and
4. Requests for substitution shall be accompanied by a complete schedule of changes in the Contract Documents, if any, which must be made to permit the use of the proposed substitution.

If a proposed substitution is approved by the Project Manager, an addendum will be issued to prospective bidders not less than three (3) working days prior to the date set for opening of bids. Unless substitutions are received and approved as described above, the successful Bidder shall be responsible for furnishing materials and products in strict accordance with the Contract Documents.

GC - 04 - CONSTRUCTION RESOURCES – Contractor shall provide all labor and equipment necessary to complete the installation within a timely manner. Contractor shall provide details as to manpower and equipment to be dedicated to the project in its Work Plan. Contractor is responsible for making arrangements, obtaining and purchasing construction water services if required to complete the work.

GC - 05 - CONTROL OF THE WORK - The Project Manager shall have full control and direction of the Work in all respects. The Project Manager and/or his authorized designee(s) shall, at all times, have the right to inspect the Work and materials. The Contractor shall furnish all reasonable facilities for obtaining such information, as the Project Manager may desire respecting the quality of the Work and materials and the manner of conducting the Work. Should the Contractor be permitted to perform night Work, or to vary the period which work is ordinarily carried on in the daytime, he shall give ample notice to the Project Manager so that proper and adequate inspection may be provided. Such Work shall be done only under such regulations as are furnished in writing by the Project Manager, and no extra compensation shall be allowed to the Contractor therefore. In the event of night work, the Contractor shall furnish such light, satisfactory to the Project Manager, as will ensure proper inspection. Nothing herein contained shall relieve the Contractor from compliance with any and all City ordinances relating to noise or Work during prohibited hours.

GC - 06 - SUB-CONTRACTOR - The Contractor shall not sublet, in whole or any part of the Work without the written consent and approval of the Project Manager. Within ten (10) days after official notification of starting date, the Contractor must submit in writing, to the Project Manager, a list of all Sub-contractors. No Work shall be done by any sub-contractor until such sub-contractor has been officially approved by the Project Manager. A sub-contractor not appearing on the original list will not be approved without written request submitted to the Project Manager and approved by the Public Works Director. In all cases, the Contractor shall give the Contractor's personal attention to the Work of the sub-contractors and the sub-contractor is liable to be discharged by the Contractor, at the direction of the Project Manager, for neglect of duty, incompetence or misconduct.

Acceptance of any sub-contractor, other person, or organization by the Project Manager shall not constitute a waiver of any right of Project Manager to reject defective Work or Work not in conformance with the Contract Documents.

GENERAL CONDITIONS (continued)

Contractor shall be fully responsible for all acts and omissions of its Sub-contractors and of persons and organizations directly or indirectly employed by them and of persons and organizations for whose acts any of them may be liable to the same extent that he is responsible for the acts and omissions of persons directly employed by him. Nothing in the Contract Documents shall create any contractual relationship between City and any sub-contractor or other person or organization having a direct contract with Contractor, nor shall it create any obligation on the part of City to pay or to see to the payment of any moneys due to any sub-contractor or other person, or organization, except as may otherwise be required by law.

GC - 07 - QUANTITIES - Contractor recognizes and agrees that the quantities shown on plans and Bid/Price Schedule are estimates only and may vary during actual construction. No change shall be made involving any departure from the general scheme of the Work and that no such change involving a material change in cost, either to the City or Contractor, shall be made, except upon written permission of the City. However, the Project Manager shall have the right to make minor alternations in the line, grade, plan, form or materials of the Work herein contemplated any time before the completion of the same. That if such alterations shall diminish the quantity of the Work to be done, such alterations shall not constitute a claim for damages or anticipated profits. That if such alterations increase the amount of the Work to be done, such increase shall be paid for according to the quantity actually performed and at the unit price or prices stipulated therefore in the Contract. The City shall, in all cases of dispute, determine the amount or quantity of the several kinds of Work which are to be paid for under this Contract, and shall decide all questions relative to the execution of the same, and such estimates and decisions shall be final and binding.

Any Work not herein specified, which might be fairly implied as included in the Contract, of which the City shall judge, shall be done by the Contractor without extra charge. However, such cost increases shall be authorized either by the Public Works Director or designee, or the City Commission based upon the purchasing threshold amounts provided for in Chapter 2 of the Code of Ordinances of the City of Fort Lauderdale, Florida.

GC - 08 - NO ORAL CHANGES - Except to the extent expressly set forth in the Contract, no change in, or modification, termination or discharge of the Contract in any form whatsoever, shall be valid or enforceable unless it is in writing and signed by the parties charged, therewith or their duly authorized representative.

GC - 09 - PERMITS AND PROTECTION OF PUBLIC – Permits on file with the City and/or those permits to be obtained by the Contractor, shall be considered directive in nature, and will be considered a part of this Contract. A copy of all permits shall be given to the City and become part of the Contract Documents. Terms of permits shall be met prior to acceptance of the Work and release of the final payment.

Contractor shall secure all permits and licenses required for completing the Project. Contractor will obtain the necessary State, County, and City construction/work permits if required.

The Contractor shall comply with all applicable Codes, Standards, Specifications, etc. related to all aspects of the Project.

Where there are telephones, light or power poles, water mains, conduits, pipes or drains or other construction, either public or private, in or on the streets or alleys, the Work shall be so conducted that no interruption or delay will be caused in the operation or use of the same. Proper written notice shall be given to all affected parties prior to proceeding with the Work.

GENERAL CONDITIONS (continued)

The Contractor shall not be permitted to interfere with public travel and convenience by grading or tearing up streets indiscriminately, but the Work of constructing the various items in this contract shall proceed in an orderly, systematic and progressive manner.

GC - 10 - DISEASE REGULATIONS - The Contractor shall enforce all sanitary regulations and take all precautions against infectious diseases as the Project Manager may deem necessary. Should any infectious or contagious diseases occur among his employees, he shall arrange for the immediate removal of the employee from the Site and isolation of all persons connected with the Work.

GC - 11 - CONTRACTOR TO CHECK PLANS, SPECIFICATIONS, AND DATA - The Contractor shall verify all dimensions, quantities, and details shown on the plans, supplementary drawings, schedules, and shall notify the Project Manager of all errors, omissions, conflicts and discrepancies found therein within three (3) working days of discovery. Failure to discover or correct errors, conflicts, or discrepancies shall not relieve the Contractor of full responsibility for unsatisfactory Work, faulty construction, or improper operation resulting therefrom nor from rectifying such condition at its own expense.

GC - 12 - MATERIALS AND WORKMANSHIP - All material shall be new and the workmanship shall, in every respect, be in conformity with approved modern practice and with prevailing standards of performance and quality. In the event of a dispute, the Project Manager's decision shall be final. Wherever the Plans, Specifications, Contract Documents, or the directions of the Project Manager are unclear as to what is permissible and/or fail to note the quality of any Work, that interpretation will be made by the Project Manager, which is in accordance with approved modern practice, to meet the particular requirements of the Contract.

GC - 13 - SAFEGUARDING MARKS - The Contractor shall safeguard all points, stakes, grade marks, monuments, and benchmarks made or established on the Work, bear the cost of re-establishing same if disturbed, or bear the entire expense of rectifying Work improperly installed due to not maintaining or protecting or for removing without authorization, such established points, stakes and marks. The Contractor shall safeguard all existing and known property corners, monuments and marks not related to the Work and, if required, shall bear the cost of having them re-established by a licensed Professional surveyor registered in the State of Florida if disturbed or destroyed during the course of construction.

GC - 14 - RESTROOM FACILITIES - Contractor shall provide portable toilet facilities for employee's use at a location within the Work site to be determined by the City.

GC - 15 - PROGRESS MEETINGS - Weekly Status meetings will be conducted with representatives from the City and the Contractor. Contractor shall budget time to participate in such meetings. A well-run Project should result in short meetings.

GC - 16 - ISSUE RESOLUTION - Should Contractor become engaged in a dispute with a resident or a City employee, the Contractor shall report the situation to the Project Manager immediately. It shall be mandatory that the Contractor participate in any dispute resolution. Failure of Contractor personnel to notify the City shall obligate Contractor to replace the offending employee immediately if requested by the City.

GENERAL CONDITIONS (continued)

GC - 17 - CITY SECURITY-CONTRACTOR AND SUBCONTRACTOR EMPLOYEE INFORMATION

- Prior to commencing work, Contractor shall provide to the City a list of all personnel and sub-contractors on site. The list will include the name, address, birth date and driver's license number for all personnel. All personnel and subcontractors on site will have on their person a company photo ID during all stages of the construction. Contractor shall provide standard required personal information per current City procedures.

GC - 18 - POST-CONSTRUCTION SURVEY - The Contractor shall provide as-built survey, sealed and signed by a registered surveyor in the State of Florida, as a condition of final payment.

GC - 19 - KEY PERSONNEL - Contractor shall provide as part of the Work Plan, resumes for all key project personnel providing supervision and project management functions. Resumes shall include work history and years of experience performing this type of work.

GC - 20 - EXISTING UTILITY SERVICE - All existing utility service shall be maintained with a minimum of interruption at the expense of the Contractor.

GC - 21 - JOB DESCRIPTION SIGNS – Contractor, at Contractor's expense, shall furnish, erect, and maintain suitable weatherproof signs on jobs over \$100,000 containing the following information:

1. City Seal (in colors)
2. Project or Improvement Number
3. Job Description
4. Estimated Cost
5. Completion Date

Minimum size of sign shall be four feet high, eight feet wide and shall be suitably anchored. The entire sign shall be painted and present a pleasing appearance. Exact location of signs will be determined in the field. Two (2) signs will be required, one at each end of the job. All costs of this work shall be included in other parts of the work.

GC - 22 - FLORIDA EAST COAST RAILWAY RIGHT-OF-WAY - Whenever a City contractor is constructing within the Florida East Coast Railway right-of-way, it will be mandatory that the contractor carry bodily injury and property damage insurance in amounts satisfactory to Florida East Coast Railway, L.L.C., f/k/a Florida East Coast Railway Company ("Florida East Coast"). This insurance requirement shall be verified by the contractor with Florida East Coast prior to commencing work, and maintained during the life of the Contract.

GC - 23 - ACCIDENTS - The Contractor shall provide such equipment and facilities as are necessary and/or required, in the case of accidents, for first aid services to be provided to a person who may be injured during the project duration. The Contractor shall also comply with the OSHA requirements as defined in the United States Labor Code 29 CFR 1926.50.

In addition, the Contractor must report immediately to the Project Manager every accident to persons or damage to property, and shall furnish in writing full information, including testimony of witnesses regarding any and all accidents.

GC - 24 - SAFETY PRECAUTIONS - Contractor must adhere to the applicable environmental protection guidelines for the duration of a project. If hazardous waste materials are used, detected or generated at any time, the Project Manager must be immediately notified of each and every occurrence. The Contractor shall comply with all codes, ordinances, rules, orders and other legal

GENERAL CONDITIONS (continued)

requirements of public authorities (including OSHA, EPA, DERM, the City, Broward County, State of Florida, and Florida Building Code), which bear on the performance of the Work.

The Contractor shall take the responsibility to ensure that all Work is performed using adequate safeguards, including but not limited to: proper safe rigging, safety nets, fencing, scaffolding, barricades, chain link fencing, railings, barricades, steel plates, safety lights, and ladders that are necessary for the protection of its employees, as well as the public and City employees. All riggings and scaffolding shall be constructed with good sound materials, of adequate dimensions for their intended use, and substantially braced, tied or secured to ensure absolute safety for those required to use it, as well as those in the vicinity. All riggings, scaffolding, platforms, equipment guards, trenching, shoring, ladders and similar actions or equipment shall be OSHA approved, as applicable, and in accordance with all Federal, State and local regulations.

GC - 25 - DUST PREVENTION - The Contractor shall, by means of a water spray, or temporary asphalt pavement, take all necessary precautions to prevent or abate a dust nuisance arising from dry weather or Work in an incomplete stage. All costs of this Work shall be included in the cost of other parts of the Work.

Should the Contractor fail to abate a dust nuisance the Project Manager may stop the Work until the issue is resolved to the City's satisfaction.

GC - 26 - SITE CLEANUP AND RESTORATION – The Contractor shall remove all debris and unused or discarded materials from the work site daily. Contractor shall clean the work site to remove all directional drilling "Driller's Mud" materials. No "Driller's Mud" residue shall be allowed to remain in the soil or on the surface of the land or vegetation. All debris and drilling materials must be disposed of offsite at an approved location.

The Contractor shall promptly restore all areas disturbed that are outside the Project limits in equal or better condition at no additional cost to the City.

GC - 27 - COURTEOUS BEHAVIOR AND RESPECT FOR RESIDENTS AND PROPERTY – The Contractor and its employees, associates and sub-contractors shall maintain courteous behavior at all times and not engage in yelling, loud music, or other such activities. Contractor's employees shall not leave trash or other discarded items at the Work Site, especially on any private property. In the event complaints arise, Contractor shall immediately remove such offending employees from the project if requested to do so by the Project Manager. Contractor's employees shall not trespass on any private property unless necessary to complete the work but with prior permission from the owner.

Contractor shall notify and obtain permission from the residents 24 hours in advance when planning to work within the resident's property. In addition, Contractor shall notify the resident prior to entering their property to perform work or inspect/investigate the work site. Contractor shall not block residents' driveways unnecessarily. Contractor shall not park equipment on landscaped areas when the vehicle is not needed for the current construction activities. Contractor shall be responsible for repair and/or replacement of all damaged landscaping within 48 hours including repairing vehicle wheel impressions, irrigation systems, lighting systems, structures, or any other items of resident's property. Contractor shall not destroy, damage, remove, or otherwise negatively impact any landscaping within or outside the right-of-way without prior approval from the Project Manager.

GENERAL CONDITIONS (continued)

GC - 28 - PLACING BARRICADES AND WARNING LIGHTS - The Contractor shall furnish and place, at Contractor's own expense, all barricades, warning lights, automatic blinker lights and such devices necessary to properly protect the work and vehicular and pedestrian traffic. Should the Contractor fail to erect or maintain such barricades, warning lights, etc., the Project Manager may, after 24 hours' notice to the Contractor, proceed to have such barricades and warning lights placed and maintained by City or other forces and all costs incurred thereof charged to the Contractor and may be retained by the City from any monies due, or to become due, to the Contractor.

GC - 29 - TRAFFIC CONTROL - The Contractor shall coordinate all Work and obtain, through the City's Transportation and Mobility Department, Broward County, Florida Department of Transportation, as applicable, any permits required to detour traffic or close any street before starting to work in the road.

The Contractor shall at all times maintain all traffic control devices, flashing lights, signs and barricades in working condition and in conformance with the Manual of Uniform Traffic Control Devices (MUTCD), latest edition.

GC - 30 - COORDINATION - The Contractor shall notify all utilities, transportation department, etc., in writing, with a copy to the Project Manager before construction is started and shall coordinate its Work with them. The Contractor shall cooperate with the owners of any underground or overhead utility lines in their removal, construction and rearrangement operations in order that services rendered by these parties will not be unnecessarily interrupted.

The Contractor shall arrange its Work and dispose of its materials so as to not interfere with the operation of other contractors engaged upon adjacent work, and to join its Work to that of others in a proper manner, and to perform its Work in the proper sequence in relation to that of other contractors as may be directed by the Project Manager.

Each Contractor shall be responsible for any damage done by it or its agents to the work performed by another contractor.

GC - 31 - WATER - Bulk water used for construction, flushing pipelines, and testing shall be obtained from fire hydrants. Contractor shall make payment for one or more hydrant meters at Treasury Billing Office, 1st Floor, City Hall, 100 N. Andrews Avenue, Fort Lauderdale, Florida. With the paid receipt, contractor can pick up hydrant meter(s) at the utility location office. No connection shall be made to a fire hydrant without a meter connected.

GC - 32 - PROHIBITION AGAINST CONTRACTING WITH SCRUTINIZED COMPANIES - Subject to *Odebrecht Construction, Inc., v. Prasad*, 876 F.Supp.2d 1305 (S.D. Fla. 2012), *affirmed*, *Odebrecht Construction, Inc., v. Secretary, Florida Department of Transportation*, 715 F.3d 1268 (11th Cir. 2013), with regard to the "Cuba Amendment," the Contractor certifies that it is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, and that it does not have business operations in Cuba or Syria, as provided in Section 287.135, Florida Statutes (2022), as may be amended or revised. As to any contract for goods or services of any amount and as to the renewal of any contract for goods or services of any amount, the Contractor certifies that it is not on the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2022), as may be amended or revised, and that it is not engaged in a boycott of Israel. The City may terminate this Agreement at the City's option if the Contractor is found to have submitted a false certification as provided under subsection (5) of Section 287.135, Florida Statutes (2022), as may be amended or

GENERAL CONDITIONS (continued)

revised, or been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2022), as may be amended or revised, or is engaged in a boycott of Israel, or has been engaged in business operations in Cuba or Syria, as defined in Section 287.135, Florida Statutes (2022), as may be amended or revised.

GC - 33 - USE OF FLORIDA LUMBER TIMBER AND OTHER FOREST PRODUCTS - In accordance with Florida Statute 255.20 (3), the City specifies that lumber, timber, and other forest products used for this Project shall be produced and manufactured in the State of Florida if such products are available and their price, fitness, and quality are equal. This requirement does not apply to plywood specified for monolithic concrete forms, if the structural or service requirements for timber for a particular job cannot be supplied by native species, or if the construction is financed in whole or in part from federal funds with the requirement that there be no restrictions as to species or place of manufacture.

The Bidder affirms by submitting a bid response to this solicitation that the Bidder will comply with section 255.20 (3) Florida Statutes.

GC - 34 - PUBLIC RECORDS/TRADE SECRETS/COPYRIGHT - The Bidder's response to the Solicitation is a public record that is subject to inspection and copying pursuant to Florida law. The City will permit public access to all documents, papers, letters, and other materials submitted in connection with this Solicitation and the ensuing contract, subject to the provisions of Chapter 119 Florida Statutes (2022), as may be amended or revised, and any other applicable law.

Any language contained in the Bidder's response to the Solicitation purporting to require confidentiality of any portion of the Bidder's response to the Solicitation, except to the extent that certain information is in the City's opinion a trade secret pursuant to Florida law, shall be void. If a Bidder submits any documents or other information to the City which the Bidder claims is trade secret information and exempt from disclosure, the Bidder shall clearly designate that it is a Trade Secret and that it is asserting that the document or information is exempt. The Bidder must specifically identify the exemption being claimed under Florida law. The City shall be the final arbiter of whether any information contained in the Bidder's response to the Solicitation constitutes a trade secret. The City's determination of whether an exemption applies shall be final, and the Bidder agrees to defend, counsel being subject to the City's approval, and indemnify, and hold harmless the City and the City's officers, employees, and agent, against any loss or damages incurred by any person or entity as a result of the City's treatment of records as public records. In addition, the Bidder agrees to defend, counsel being subject to the City's approval, and indemnify, and hold harmless the City and the City's officers, employees, and agents, against any loss or damages incurred by any person or entity as a result of the City's treatment of records as exempt from disclosure or confidential. Bids purporting to be subject to copyright protection in full or in part will be rejected. The Bidder authorizes the City to publish, copy, and reproduce any and all documents submitted to the City bearing copyright symbols or otherwise purporting to be subject to copyright protection.

EXCEPT FOR CLEARLY MARKED PORTIONS THAT ARE BONA FIDE TRADE SECRETS PURSUANT TO FLORIDA LAW, DO NOT MARK YOUR RESPONSE TO THE SOLICITATION AS PROPRIETARY OR CONFIDENTIAL. DO NOT MARK YOUR RESPONSE TO THE SOLICITATION OR ANY PART THEREOF AS COPYRIGHTED.

GENERAL CONDITIONS (continued)

Any material submitted to the City or to Broward County, a political subdivision of the State of Florida, ("County"), that the Contractor contends constitutes or contains trade secrets or is otherwise exempt from production under Florida public records laws (including Chapter 119, Florida Statutes) ("Trade Secret Materials") must be separately submitted and conspicuously labeled "EXEMPT FROM PUBLIC RECORD PRODUCTION – TRADE SECRET." In addition, the Contractor must, simultaneous with the submission of any Trade Secret Materials, provide a sworn affidavit from a person with personal knowledge attesting that the Trade Secret Materials constitute trade secrets under Section 812.081, Florida Statutes, and stating the factual basis for same. Contractor shall indemnify and defend the County and the County's employees and agents from any and all claims, causes of action, losses, fines, penalties, damages, judgments and liabilities of any kind, including attorneys' fees, litigation expenses, and court costs, relating to the nondisclosure of any Trade Secret Materials in response to a public records request by a third party. Contractor shall defend, counsel being subject to the City's approval, and indemnify and hold harmless the City and the City's employees and agents from and against any and all claims, causes of action, losses, fines, penalties, damages, judgments and liabilities of any kind, including attorneys' fees, litigation expenses, and court costs, relating to the City's obligation to indemnify and defend the County in connection with the nondisclosure of any Trade Secret Materials in response to a public records request by a third party, and Contractor shall assume the City's obligation to indemnify and defend the County in connection with the nondisclosure of any Trade Secret Materials in response to a public records request by a third party.

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES (2022), TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

Telephone Number: (954) 828-5002

**Mailing Address: City Clerk's Office
100 N. Andrews Avenue
Fort Lauderdale, Florida 33301-1016**

E-mail: prcontract@fortlauderdale.gov

Contractor shall comply with public records laws, and Contractor shall:

1. Keep and maintain public records required by the City in order to perform the service.
2. Upon request from the City's custodian of public records, provide the City with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes (2022), as may be amended or revised, or as otherwise provided by law.
3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of this Agreement if the Contractor does not transfer the records to the City.

GENERAL CONDITIONS (continued)

4. Upon completion of the Agreement, transfer, at no cost, to the City all public records in possession of the Contractor or keep and maintain public records required by the City to perform the service. If the Contractor transfers all public records to the City upon completion of this Agreement, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of this Agreement, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records, in a format that is compatible with the information technology systems of the City.

GC – 35 - NON-DISCRIMINATION - The Contractor shall not discriminate in the performance of this Agreement or against its employees based on the employee's race, color, religion, sex, gender, gender identity, gender expression, marital status, sexual orientation, national origin, age, disability, pregnancy, political affiliation, or any other protected classification as defined by applicable law.

1. The Contractor certifies and represents that the Contractor offers the same health benefits to the domestic partners of its employees as are offered its employees' spouses or offers its employees the cash equivalent of such health benefits because it is unable to provide health benefits to its employees' domestic partners, and that the Contractor will comply with Section 2-187, Code of Ordinances of the City of Fort Lauderdale, Florida, (2022), as may be amended or revised, ("Section 2-187"), during the entire term of this Agreement.
2. The failure of the Contractor to comply with Section 2-187 shall be deemed to be a material breach of this Agreement, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.
3. The City may terminate this Agreement if the Contractor fails to comply with Section 2-187.
4. The City may retain all monies due or to become due until the Contractor complies with Section 2-187.
5. The Contractor may be subject to debarment or suspension proceedings. Such proceedings will be consistent with the procedures in section 2-183 of the Code of Ordinances of the City of Fort Lauderdale, Florida.

GC – 36 - E-VERIFY - As a condition precedent to the effectiveness of this Agreement, pursuant to Section 448.095, Florida Statutes (2022), as may be amended or revised, the Contractor and its subcontractors shall register with and use the E-Verify system to electronically verify the employment eligibility of newly hired employees.

1. The Contractor shall require each of its subcontractors, if any, to provide the Contractor with an affidavit stating that the subcontractor does not employ, contract with, or subcontract with an unauthorized alien. The Contractor shall maintain a copy of the subcontractor's affidavit for the duration of this Agreement and in accordance with the public records requirements of this Agreement.

GENERAL CONDITIONS (continued)

2. The City, the Contractor, or any subcontractor who has a good faith belief that a person or entity with which it is contracting has knowingly violated Subsection 448.09(1), Florida Statutes (2022), as may be amended or revised, shall terminate the contract with the person or entity.
3. The City, upon good faith belief that a subcontractor knowingly violated the provisions of Subsection 448.095(2), Florida Statutes (2022), as may be amended or revised, but that the Contractor otherwise complied with Subsection 448.095(2), as may be amended or revised, shall promptly notify Contractor and order the Contractor to immediately terminate the contract with the subcontractor, and the Contractor shall comply with such order.
4. A contract terminated under Subparagraph 448.095(2)(c)1. or 2., Florida Statutes (2022), as may be amended or revised, is not a breach of contract and may not be considered as such. If the City terminates this contract under Paragraph 448.095(2)(c), Florida Statutes (2022), as may be amended or revised, the Contractor may not be awarded a public contract for at least one year after the date on which the contract was terminated. The Contractor is liable for any additional costs incurred by the City as a result of termination of this Agreement.
5. Contractor shall include in each of its subcontracts, if any, the requirements set forth in this section GC-36, including this subparagraph, requiring any and all subcontractors, as defined in Subsection 448.095(1)(j), Florida Statutes (2022), as may be amended or revised, to include all of the requirements of this section GC-36, in their subcontracts. Contractor shall be responsible for compliance by any and all subcontractors, as defined in Subsection 448.095(1)(j), Florida Statutes (2022), as may be amended or revised, with the requirements of Section 448.095, Florida Statutes (2022), as may be amended or revised.

SPECIAL CONDITIONS

01. PURPOSE

The City of Fort Lauderdale, Florida (City) is seeking bids from qualified bidders, for construction services in accordance with the terms, conditions, and specifications contained in this Invitation to Bid (ITB).

02. TRANSACTION FEES

The City uses the City's on-line strategic sourcing platform to distribute and receive bids and proposals. There is no charge to vendors/contractors to register and participate in the solicitation process, nor will any fees be charged to the awarded contractor.

03. SUBMISSION OF BIDS

It is the sole responsibility of the Contractor to ensure that its bid is submitted electronically through the City's on-line strategic sourcing platform. **PAPER BID SUBMITALS WILL NOT BE ACCEPTED. PLEASE SUBMIT YOUR BID RESPONSE ELECTRONICALLY.**

04. INFORMATION OR CLARIFICATION

For information concerning procedures for responding to this solicitation, contact **Maureen Lewis, Senior Procurement Specialist**, at **(954) 828-5239** or email at maureenl@fortlauderdale.gov. Such contact shall be for clarification purposes only.

For information concerning technical specifications please utilize the Question/Answer platform provided in the City's on-line strategic sourcing platform. Questions of a material nature must be received prior to the cut-off date specified in the solicitation. Material changes, if any, to the scope of services or bidding procedures will only be transmitted by written addendum. **Bidders please note:** No part of your bid can be submitted via FAX. No variation in price or conditions shall be permitted based upon a claim of ignorance. Submission of a bid will be considered evidence that the bidder has familiarized himself/herself/itself with the nature and extent of the work, and the equipment, materials, and labor required. The entire bid response must be submitted in accordance with all specifications contained in this solicitation. The questions and answers submitted in the City's on-line strategic sourcing platform shall become part of any contract that is created from this ITB.

05. CONTRACT TIME

The Contract time is as provided in the Transportation Surtax Addendum.

06. BID SECURITY

A certified check, cashier's check, bank officer's check or bid bond for **FIVE percent (5%)** of the bid amount, made payable to the City of Fort Lauderdale, shall accompany each offer.

07. GOAL PARTICIPATION:

This solicitation includes the following Broward County certified County Business Enterprises (CBE) goal: **30%** CBE Goal.

Vendors/firms must follow the instructions included in the **Office of Economic and Small Business Development Requirements** section and submit all required forms and information as instructed.

- A. On September 25, 2018 (Item No. 69), the Board of County Commissioners of Broward County, Florida, (County Commission) adopted a thirty percent (30%) County Business Enterprise Program (CBE) participation goal for projects funded with proceeds from the transportation surtax. The project that is the subject of this solicitation will be funded with proceeds from the transportation surtax. Therefore, the Broward County Business Opportunity Act of 2012, Section 1-81, Broward County Code of Ordinances, as amended (the "Business Opportunity Act" or "CBE Program"), is applicable to this solicitation and the contract that will result from this solicitation. All vendors/firms responding to this solicitation are required to utilize CBE firms to perform the assigned participation goal for this contract.
- B. The Broward County Office of Economic and Small Business Development (OESBD) has established the CBE participation goal for this project based upon the proposed scope of services/work for the project. Potential alternate/additional scopes of services/work, optional services and allowances were not considered by OESBD when the CBE participation goal for this project was established. If the Municipality subsequently chooses to authorize any alternate/additional scopes of services/work, optional services and/or allowances, that are determined by OESBD and the Contract Administrator to be funded with proceeds from the transportation surtax, OESBD may apply the established CBE participation goal to the alternate/additional services/work, optional services, and/or allowances. In such an instance, the Municipality will issue a written notice to the successful vendor/firm that the CBE participation goal will also apply to the alternate/additional services/work and/or allowances. The selected vendor/firm shall submit all required forms pertaining to its compliance with the CBE participation goal, as applicable. Failure by vendor/firm to submit the required forms regarding CBE participation may result in the rejection of vendor's/firm's solicitation submittal.
- C. CBE Program Requirements: Compliance with CBE participation goal requirements is a matter of responsibility (or the Municipality's equivalent); vendors/firms should submit all required forms and information with its solicitation submittal. If the required forms and information are not provided with the vendor's/firm's solicitation submittal, then vendor/firm must supply the required forms and information no later than three (3) business days after receipt

SPECIAL CONDITIONS (continued)

of a request from OESBD. Vendor/firm may be deemed non-responsible (or the Municipality's equivalent) for failure to fully comply with CBE Program Requirements within these stated timeframes.

1. Vendor/firm should include in its solicitation submittal a Letter of Intent Between Bidder/Offeror and County Business Enterprise (CBE) Subcontractor/Supplier for each CBE firm the Vendor intends to use to achieve the assigned CBE participation goal. The form is available at the following link:
<https://www.broward.org/EconDev/SmallBusiness/Documents/SurtaxProjectsServicesIntent.pdf>
 2. If vendor/firm is unable to attain the CBE participation goal, vendor/firm should include in its solicitation submittal an Application for Evaluation of Good Faith Efforts and all required supporting information. The form is available at the following link:
<https://www.broward.org/EconDev/SmallBusiness/Documents/GoodFaithEffortsEvaluation.pdf>
- D. OESBD maintains an online directory of CBE firms. The online directory is available for use by vendors/firms at:
<https://www.broward.org/EconDev/DoingBusiness/Pages/CertifiedFirmDirectories.aspx>
- E. For detailed information regarding the CBE Program contact the OESBD at (954) 357-6400 or visit the website at:
<https://www.broward.org/EconDev/Pages/localcertificationprograms.aspx>
- F. If awarded the contract, vendor/firm agrees to and shall comply with all applicable requirements of the Business Opportunity Act and the CBE Program in the award and administration of the contract including, but not limited to, the following:
- 1 Vendor/firm may not discriminate on the basis of race, color, sex, religion, national origin, disability, age, marital status, political affiliation, sexual orientation, pregnancy, or gender identity and expression in the performance of this contract.
 - 2 All entities that seek to conduct business with the Municipality, including vendor/firm or any Prime Contractors, Subcontractors, and Bidders, shall conduct such business activities in a fair and reasonable manner, free from fraud, coercion, collusion, intimidation, or bad faith. Failure to do so may result in the cancellation of this solicitation, cessation of contract negotiations, revocation of CBE certification, and suspension or debarment from future contracts.
 - 3 If vendor/firm fails to meet or make Good Faith Efforts (as defined in the Business Opportunity Act) to meet the CBE participation commitment (the "Commitment"), then Vendor shall pay the Municipality liquidated damages in

SPECIAL CONDITIONS (continued)

an amount equal to fifty percent (50%) of the actual dollar amount by which Vendor failed to achieve the Commitment, up to a maximum amount of ten percent (10%) of the total contract amount, excluding costs and reimbursable expenses. An example of this calculation is stated in Section 1-81.7, Broward County Code of Ordinances.

- 4 Vendor/firm shall comply with all applicable requirements of the Business Opportunity Act in the award of the contract. Failure by vendor/firm to carry out any of these requirements shall constitute a material breach of the contract, which shall permit the Municipality to terminate the contract or to exercise any other remedy provided under the contract or other applicable laws, with all such remedies being cumulative.
 - 5 Vendor/firm shall pay its CBE subcontractors and suppliers, within fifteen (15) days following receipt of payment from the Municipality, for all completed subcontracted work and supplies. If vendor/firm withholds an amount from CBE subcontractors or suppliers as retainage, such retainage shall be released and paid within fifteen (15) days following receipt of payment of retained amounts from the Municipality.
 - 6 Vendor/firm understands that the Municipality and County will monitor vendor's/firm's compliance with the CBE Program requirements. Vendor/Firm must provide the Municipality with a Monthly Utilization Report (MUR) by the 10th of each month to confirm its compliance with the Commitment agreed to in the contract; MURs can be submitted to the Municipality at rnazaire@fortlauderdale.gov and online through the Broward County's iContractsCentral application, at the following website: <http://www.broward.org/Purchasing/Pages/icontractscentral.aspx>. Timely submission on the MUR every month throughout the term of the contract, including amendment and extension terms, is a condition precedent to the Municipality's payment of vendor/firm under this contract.
- G. **Workforce Investment Program.** The Broward Workforce Investment Program, Section 19.211, Broward County Administrative Code ("Workforce Investment Program") is applicable to this solicitation. Vendor/firm affirms it is aware of the requirements of the Workforce Investment Program. If awarded the contract, vendor/firm agrees to use good faith efforts to meet the First Source Referral Goal and the Qualifying New Hires Goal as set forth the Workforce Investment Program, including by (a) publicly advertising exclusively with CareerSource Broward for at least five (5) business days any vacancies that are the direct result of the agreement that results from this solicitation (whether those vacancies are with the vendor/firm or its subcontractors) and using good faith efforts to interview any qualified candidates referred under the Workforce Investment Program, and (b) using good faith efforts to hire Qualifying New Hires, as defined by the Workforce Investment Program, for at least fifty percent (50%) of the vacancies that are the direct result of the agreement that results from this solicitation. Until at least one year after the conclusion of the agreement, vendor/firm will be required to maintain and make available to the Municipality and the County upon request all records documenting vendor/firm's compliance with the requirements

SPECIAL CONDITIONS (continued)

of the Workforce Investment Program, and shall submit the required Workforce Investment Reports to the Municipality and the County's Contract Administrator annually by January 31 and within thirty (30) days after the conclusion of the agreement. Failure to demonstrate good faith efforts to meet the First Source Referral Goal and the Qualifying New Hires Goal shall constitute a material breach of the agreement.

08. **NOTE:** Any and all Special Conditions contained in this ITB that may be in variance or conflict with the General Conditions shall have precedence over the General Conditions. If no changes or deletions to General Conditions are made in the Special Conditions, then the General Conditions shall prevail in its entirety.

09. REQUIRED LICENSES/CERTIFICATIONS

Contractor must possess the following licenses/certifications to be considered for award:

Florida Certified General Contractor License.

Note: Contractor **must** have proper licensing and shall submit evidence of same with its bid response.

10. SPECIFIC EXPERIENCE REQUIRED

The following expertise is required to be considered for this Contract. Specific references attesting to this expertise must be submitted with the bid response.

The contractor shall have at least ten (10) years previous construction experience in constructing bridges in the State of Florida within the last ten (10) years. Bidder shall submit proof of construction experience for a minimum of three (3) bridge construction projects of similar scope and scale (or larger) and shall, for each project listed, identify location; dates of construction; project name and overall scope; scope of work that was self-performed by Contractor; and client's name, address, telephone number and e-mail address.

NOTE: REFERENCES SHALL NOT INCLUDE ANY CITY OF FORT LAUDERDALE EMPLOYEES OR WORK PERFORMED FOR THE CITY. THE CITY IS INTERESTED IN WORK EXPERIENCE AND REFERENCES FROM ENTITIES OTHER THAN THE CITY OF FORT LAUDERDALE.

11. BID ALLOWANCE

Allowance for permits: Payments will be made to the Contractor based on the actual cost of permits upon submission of paid permit receipts. The City shall not pay for other costs related to obtaining or securing permits.

The amount indicated is intended to be sufficient to cover the entire project. If the City's permit fees exceed the allowance indicated, the City will reimburse the Contractor the actual amount of the City permit fees required for project completion.

SPECIAL CONDITIONS (continued)

Allowances	\$
Allowance for dumping fee	4,000
FPL, AT&T allowance	11,000
Permit fees and testing allowance	5,000
TOTAL	\$20,000.00

12. INSURANCE REQUIREMENTS (See Article 10, Bonds and Insurance, of the Contract for details)

Insurance

As a condition precedent to the effectiveness of this Agreement, during the term of this Agreement and during any renewal or extension term of this Agreement, Contractor, at its sole expense, shall provide insurance of such types and with such terms and limits as noted below. Providing proof of and maintaining adequate insurance coverage are material obligations of Contractor. Contractor shall provide the City a certificate of insurance evidencing such coverage. Contractor's insurance coverage shall be primary insurance for all applicable policies, in respect to the City's interests. The limits of coverage under each policy maintained by Contractor shall not be interpreted as limiting Contractor's liability and obligations under this Agreement. All insurance policies shall be through insurers authorized or eligible to write policies in the State of Florida and possess an A.M. Best rating of A-, VII or better, subject to approval by the City's Risk Manager.

The coverages, limits, and/or endorsements required herein protect the interests of the City, and these coverages, limits, and/or endorsements shall in no way be relied upon by Contractor for assessing the extent or determining appropriate types and limits of coverage to protect Contractor against any loss exposures, whether as a result of this Agreement or otherwise. The requirements contained herein, as well as the City's review or acknowledgement, are not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by Contractor under this Agreement.

The following insurance policies and coverages are required:

Commercial General Liability

Coverage must be afforded under a Commercial General Liability policy with limits not less than:

- \$2,000,000 each occurrence and \$2,000,000 aggregate for Bodily Injury, Property Damage, and Personal and Advertising Injury
- \$2,000,000 each occurrence and \$2,000,000 aggregate for Products and Completed Operations

Policy must include coverage for contractual liability and independent contractors.

The City, a Florida municipality, its officials, employees, and volunteers are to be covered as an additional insured with a CG 20 26 04 13 Additional Insured – Designated Person or Organization Endorsement or similar endorsement providing equal or broader Additional Insured Coverage with respect to liability arising out of activities performed by

SPECIAL CONDITIONS (continued)

or on behalf of Contractor. The coverage shall contain no special limitation on the scope of protection afforded to the City, its officials, employees, and volunteers.

Business Automobile Liability

Coverage must be afforded for all Owned, Hired, Scheduled, and Non-Owned vehicles for Bodily Injury and Property Damage in an amount not less than \$2,000,000 combined single limit each accident.

If Contractor does not own vehicles, Contractor shall maintain coverage for Hired and Non-Owned Auto Liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

Crane and Rigging Liability

Coverage must be afforded for any crane operations under the Commercial General or Business Automobile Liability policy as necessary, in line with the limits of the associated policy.

Pollution and Remediation Legal Liability (Hazardous Materials)

For the purpose of this section, the term "hazardous materials" includes all materials and substances that are designated or defined as hazardous by Florida or federal law or by the rules or regulations of Florida or any federal agency. If work being performed involves hazardous materials, Contractor shall procure and maintain any or all of the following coverages (which will be specifically addressed upon review of exposure):

Contractors Pollution Liability Coverage

For sudden and gradual occurrences and in an amount not less than \$1,000,000 per claim arising out of this Agreement, including but not limited to, all hazardous materials identified under the Agreement.

Asbestos Liability Coverage

For sudden and gradual occurrences and in an amount not less than \$1,000,000 per claim arising out of work performed under this Agreement.

Hazardous Waste Transportation Coverage

Contractor shall designate the hauler and furnish a Certificate of Insurance from the hauler for Automobile Liability insurance with Endorsement MCS90 for liability arising out of the transportation of hazardous materials in an amount not less than \$1,000,000 per claim limit and provide a valid EPA identification number.

Disposal Coverage

Contractor shall designate the disposal site and furnish a Certificate of Insurance from the disposal facility for Environmental Impairment Liability insurance, covering liability for sudden and accidental occurrences in an amount not less than \$1,000,000 per claim and shall include liability for non-sudden occurrences in an amount not less than \$1,000,000 per claim.

Watercraft Liability (Protection and Indemnification)

Coverage must be afforded in an amount not less than \$1,000,000 per occurrence and must cover the utilization of watercraft, including Bodily Injury and Property Damage arising out of ownership, maintenance, or use of any watercraft, including owned, non-owned, and hired.

SPECIAL CONDITIONS (continued)

Coverage may be provided in the form of an endorsement to the Commercial General Liability policy, or in the form of a separate policy covering Watercraft Liability or Protection and Indemnity for Bodily Injury and Property Damage.

Workers' Compensation and Employer's Liability

Coverage must be afforded per Chapter 440, Florida Statutes. Any person or entity performing work for or on behalf of the City must provide Workers' Compensation insurance. Exceptions and exemptions will be allowed by the City's Risk Manager, if they are in accordance with Florida Statute.

Contractor waives, and Contractor shall ensure that Contractor's insurance carrier waives, all subrogation rights against the City, its officials, employees, and volunteers for all losses or damages. The City requires the policy to be endorsed with WC 00 03 13 Waiver of our Right to Recover from Others or equivalent.

Contractor must be in compliance with all applicable State and federal workers' compensation laws, including the U.S. Longshore and Harbor Workers' Compensation Act and the Jones Act, if applicable.

Insurance Certificate Requirements

- a. Contractor shall provide the City with valid Certificates of Insurance (binders are unacceptable) no later than ten (10) days prior to the start of work contemplated in this Agreement.
- b. Contractor shall provide to the City a Certificate of Insurance having a thirty (30) day notice of cancellation; ten (10) days' notice if cancellation is for nonpayment of premium.
- c. In the event that the insurer is unable to accommodate the cancellation notice requirement, it shall be the responsibility of Contractor to provide the proper notice. Such notification will be in writing by registered mail, return receipt requested, and addressed to the certificate holder.
- d. In the event the Agreement term or any surviving obligation of Contractor following expiration or early termination of the Agreement goes beyond the expiration date of the insurance policy, Contractor shall provide the City with an updated Certificate of Insurance no later than ten (10) days prior to the expiration of the insurance currently in effect. The City reserves the right to suspend the Agreement until this requirement is met.
- e. The Certificate of Insurance shall indicate whether coverage is provided under a claims-made or occurrence form. If any coverage is provided on a claims-made form, the Certificate of Insurance must show a retroactive date, which shall be the effective date of the initial contract or prior.
- f. The City shall be covered as an Additional Insured on all liability policies, with the exception of Workers' Compensation.
- g. The City shall be granted a Waiver of Subrogation on Contractor's Workers' Compensation insurance policy.
- h. The title of the Agreement, Bid/Contract number, event dates, or other identifying reference must be listed on the Certificate of Insurance.

SPECIAL CONDITIONS (continued)

The Certificate Holder should read as follows:

City of Fort Lauderdale
100 N. Andrews Avenue
Fort Lauderdale, FL 33301

Contractor has the sole responsibility for all insurance premiums and shall be fully and solely responsible for any costs or expenses as a result of a coverage deductible, co-insurance penalty, or self-insured retention; including any loss not covered because of the application of such deductible, co-insurance penalty, self-insured retention, or coverage exclusion or limitation. Any costs for adding the City as an Additional Insured shall be at Contractor's expense.

If Contractor's primary insurance policy/policies do not meet the minimum requirements as set forth in this Agreement, Contractor may provide evidence of an Umbrella/Excess insurance policy to comply with this requirement.

Contractor's insurance coverage shall be primary insurance in respect to the City's interests, a Florida municipality, its officials, employees, and volunteers. Any insurance or self-insurance maintained by the City shall be non-contributory.

Any exclusion or provision in any insurance policy maintained by Contractor that excludes coverage required in this Agreement shall be deemed unacceptable and shall be considered breach of contract.

All required insurance policies must be maintained until the contract work has been accepted by the City, or until this Agreement is terminated, whichever is later. Any lapse in coverage may be considered breach of contract. In addition, Contractor must provide to the City confirmation of coverage renewal via an updated certificate of insurance should any policies expire prior to the expiration of this Agreement. The City reserves the right to review, at any time, coverage forms and limits of Contractor's insurance policies.

Contractor shall provide notice of any and all claims, accidents, and any other occurrences associated with this Agreement to Contractor's insurance company or companies and the City's Risk Management office as soon as practical.

It is Contractor's responsibility to ensure that any and all of Contractor's independent contractors and subcontractors comply with these insurance requirements. All coverages for independent contractors and subcontractors shall be subject to all of the applicable requirements stated herein. Any and all deficiencies are the responsibility of Contractor. The City reserves the right to adjust insurance limits from time to time at its discretion with notice to Contractor.

Bond Requirements

This Agreement is required to be bonded in accordance with Articles 6 and 7 of the Transportation Surtax Addendum and Section 255.05, Florida Statutes (2022), and as provided in the Instructions to Bidders contained in Invitation to Bid/Event No. 94.

SPECIAL CONDITIONS (continued)

All bonds must be underwritten by a surety company authorized to issue bonds in the State of Florida. The Contractor shall deliver required bonds to the City no later than thirty (30) days prior to the start of the Work contemplated in this Agreement.

If the Surety on any bond furnished by the Contractor is declared bankrupt, becomes insolvent, its right to do business is terminated in the State of Florida, or it ceases to meet the requirements of Section 255.05, Florida Statutes, the Contractor shall within five (5) days thereafter substitute Surety, subject to the City's approval.

Loss Control/Safety

Precaution shall be exercised at all times by the Contractor for the protection of all persons, including employees, and property. The Contractor shall comply with all laws, regulations, or ordinances relating to safety and health, and shall make special effort to detect hazardous conditions and shall take prompt action where loss control/safety measures should reasonably be expected.

The City may order work to be stopped if conditions exist that present immediate danger to persons or property. The Contractor acknowledges that such stoppage will not shift responsibility for any loss or damages from the Contractor to the City.

NOTE: CITY PROJECT NUMBER, PROJECT NAME AND BID NUMBER MUST APPEAR ON EACH CERTIFICATE, AND THE CITY OF FORT LAUDERDALE MUST BE NAMED ON THE CERTIFICATE AS AN "ADDITIONAL INSURED" ON REQUIRED LIABILITY POLICIES.

A Sample Insurance Certificate shall be included with the bid to demonstrate the firm's ability to comply with insurance requirements. Provide a previous certificate or other evidence listing the insurance companies' names for all required coverage, and the dollar amounts of the coverage.

13. PERFORMANCE AND PAYMENT BOND: 100%

14. CITY PROJECT MANAGER

The Project Manager is hereby designated by the City as **Connie Hayman**, whose address is 100 North Andrews, 4th Floor, Fort Lauderdale, Florida 33301-1016, telephone number: **(954)828-7150**, and e-mail address is chayman@fortlauderdale.gov. The Project Manager will assume all duties and responsibilities and will have the rights and authorities assigned to the Project Manager in the Contract Documents in connection with completion of the Work in accordance with this Agreement.

15. LIQUIDATED DAMAGES *(See Article 16, Liquidated Damages, of the Contract for details)*

Upon failure of the Contractor to complete the Work within the time specified for completion, the Contractor shall pay to the City liquidated damages as provided in Article 3 of the Transportation Surtax Addendum.

SPECIAL CONDITIONS (continued)

16. PAYMENT (*See Article 7, Payment, of the Contract for other details*)

The City shall make payment to the Contractor by check, and in accordance with Articles 4 and 5 of the Transportation Surtax Addendum.

17. WORK SCHEDULE (including overtime hours):

Regular work hours: **8:00 am to 5:00 pm, Monday through Friday.**

City Inspector Hours: **8:00 am to 4:30 pm, Monday through Friday.**

Any inspection requested by the contractor outside those hours will be considered overtime to be paid by the Contractor.

18. INSPECTION OVERTIME COST: \$100/hr.

CITY OF FORT LAUDERDALE
CONSTRUCTION AGREEMENT

THIS CONSTRUCTION AGREEMENT ("Agreement") made and entered into this _____ day of _____, 20____, by and between the City of Fort Lauderdale, a Florida municipality ("City") and _____, a Florida Company/Corporation ("Contractor"), (each a "Party") (collectively, "Parties");

WHEREAS, the City desires to retain a contractor for the Project as expressed in its Invitation to Bid No. _____, Project Number, _____, which was opened on _____; and,

WHEREAS, the Contractor has expressed its willingness and capability to perform the necessary work to accomplish the Project.

NOW, THEREFORE, the City and the Contractor, in consideration of the mutual covenants and conditions contained herein and for other good and valuable consideration, the receipt and sufficiency is hereby acknowledged, agree as follows:

ARTICLE 1 – DEFINITIONS

Whenever used in this Agreement or in other Contract Documents, the following terms have the meanings indicated which are applicable to both the singular and plural forms:

- 1.1 Agreement or Contract – This written Agreement between the City and the Contractor covering the work to be performed including other Contract Documents that are attached to or incorporated in the Agreement.
- 1.2 Application for Payment – The form accepted by the City which is to be used by the Contractor in requesting progress or final payment and which is to include such supporting documentation as is required by the Contract Documents.
- 1.3 Approve – The word approve is defined to mean review of the material, equipment or methods for general compliance with design concepts and with the information given in the Contract Documents. It does not imply a responsibility on the part of the City to verify in every detail conformance with plans and specifications.
- 1.4 Bid – The offer or Bid of the Contractor submitted on the prescribed form setting forth the total prices for the Work to be performed.
- 1.5 Bid Documents – Advertisement for Invitation to Bids, the Instructions to Bidders, the Bid Form (with supplemental affidavits and sample agreements), the Contract Forms, General Conditions, the Supplementary Conditions, the Specifications, and the Plans, which documents all become an integral part of the Contract Documents.
- 1.6 Certificate of Substantial Completion - Certificate provided by the City certifying that all Work, excluding the punch list items, has been completed, inspected, and accepted by the City.

- 1.7 Change Order - A written document executed by both Parties ordering a change in the Contract Price or Contract Time or a material change in the Work.
- 1.8 City – The City of Fort Lauderdale, Florida, including but not limited to its employees, agents, officials, representatives, contractors, subcontractors, volunteers, successors and assigns, with whom the Contractor has entered into the Agreement and for whom the Work is to be provided.
- 1.9 Contract Documents – The Contract Documents shall consist of the official documents setting forth bidding information, requirements, and contractual obligations for the Project and includes the Construction Contract for the Project, any contract supplement general conditions, and supplemental general conditions, the Scope of Work, invitation to bid, amendments and addenda, standard instructions for vendors, special instructions for vendors, Plans, Drawings, exhibits, general requirements, technical specifications, bid forms, record of award by the Board, bonds, notice of award, Notice(s) to Proceed, supplements, representations and certifications, certificates, project forms, closeout forms, purchase order(s), Change Order(s), Field Order(s), special provisions, BIM and electronic media submittal requirements, documents incorporated into the Construction Contract by reference and/or as an exhibit, and any additional documents required by Broward County or Municipality, or for the Project.
- Permits on file with the City and or those permits to be obtained shall be considered directive in nature and will be considered a part of this Agreement. A copy of all permits shall be given to the City for inclusion in the Contract Documents. Terms of permits shall be met prior to acceptance of the Work and release of the final payment.
- 1.10 Contract Price – The amount established in the bid submittal and award by the City's City Commission, its successors and assigns, as may be amended by Change Order.
- 1.11 Contract Time – The time between commencement and completion of the Work, including any milestone dates thereof, established in Article 3 of the Transportation Surtax Addendum, as may be amended by Change Order.
- 1.12 Contractor – The person, firm, company, or corporation with whom the City has entered into the Agreement, including but not limited to its employees, agents, representatives, contractors, subcontractors, their subcontractors and their other successors and assigns.
- 1.13 Day – A calendar day of twenty-four (24) hours ending at midnight.
- 1.14 Defective – When modifying the word "Work" refers to work that is unsatisfactory, faulty, or deficient, or does not conform to the Contract Documents or does not meet the requirements of any inspection, test or approval referred to in the Contract Documents, or has been damaged prior to the Project Manager's recommendation of final payment.
- 1.15 Effective Date of the Agreement – The effective date of the Agreement shall be the date the City Commission approves the work.

- 1.16 Final Completion Date – The date certified by Consultant in the Final Certificate of Payment upon which all conditions and requirements of any permits and regulatory agencies have been satisfied; any documents required by the Contract Documents have been received by Consultant; any other documents required to be provided by Contractor have been received by Consultant; and to the best of Consultant's knowledge, information and belief, the Work defined herein has been fully completed in accordance with the terms and conditions of the Contract Documents.
- 1.17 Hazardous Materials (HAZMAT) - Any solid, liquid, or gaseous material that is toxic, flammable, radioactive, corrosive, chemically reactive, or unstable upon prolonged storage in quantities that could pose a threat to life, property, or the environment defined in Section 101(14) of Comprehensive Environmental Response, Compensation and Liability Act of 1980 and in 40 CFR 300.6. Also defined by 49 CFR 171.8 as a substance or material designated by the Secretary of Transportation to be capable of posing an unreasonable risk to health, safety, and property when transported in commerce and which has been so designated.
- 1.18 Hazardous Substance - As defined by Section 101(14) of the Comprehensive Environmental Response, Compensation and Liability Act, any substance designated pursuant to Section 311(b) (2) (A) of the Clean Water Act; any element, compound, mixture, solution or substance designated pursuant to Section 102 identified under or listed pursuant to Section 3001 of the Solid Waste Disposal Act {but not including any waste listed under Section 307[a] of the Clean Water Act}; any hazardous air pollutant listed under Section 112 of the Clean Air Act, and any imminently hazardous chemical substance or mixture pursuant to Section 7 of the Toxic Substances Control Act. The term does not include petroleum, including crude oil or any fraction thereof, which is not otherwise specifically listed or designated as a hazardous substance in the first sentence of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
- 1.19 Hazardous Waste - Those solid wastes designated by OSHA in accordance with 40 CFR 261 due to the properties of ignitability, corrosivity, reactivity, or toxicity. Any material that is subject to the Hazardous Waste Manifest requirements of the EPA specified in 40 CFR Part 262.
- 1.20 Holidays - Those designated non-work days as established by the City Commission of the City of Fort Lauderdale.
- 1.21 Inspection – The term “inspection” and the act of inspecting as used in this Agreement is defined to mean the examination of construction to ensure that it conforms to the design concept expressed in the plans and specifications. This term shall not be construed to mean supervision, superintending and/or overseeing.
- 1.22 Notice of Award - The written notice by City to the Contractor stating that upon compliance by the Contractor with the conditions precedent enumerated therein, within the time specified that the City will sign and deliver this Agreement.
- 1.23 Notice to Proceed – A written notice to Contractor authorizing the commencement of the activities identified in the notice or as described in the Contract Documents.

- 1.24 Plans - The official graphic representations of this Project that are a part of the Contract Documents.
- 1.25 Premises (otherwise known as Site or Work Site) – means the land, buildings, facilities, etc. upon which the Work is to be performed.
- 1.26 Project – The construction project described in the Contract Documents, including the Work described therein.
- 1.27 Project Manager - The employee of the City, or other designated individual who is herein referred to as the Project Manager, will assume all duties and responsibilities and will have the rights and authorities assigned to the Project Manager in the contract Documents in connection with completion of the Work in accordance with this Agreement. The Project Manager, or designee, shall be the authorized agent for the City unless otherwise specified. The Project Manager is also the Contract Administrator as defined in the Transportation Surtax Addendum.
- 1.28 Punch List - The City's list of Work yet to be done or be corrected by the Contractor, before the Final Completion date can be determined by the City.
- 1.29 Record Documents - A complete set of all specifications, drawings, addenda, modifications, shop drawings, submittals and samples annotated to show all changes made during the construction process.
- 1.30 Record Drawings or "As-Built" - A set of drawings which show significant changes in the work made during construction and which are usually based on drawings marked up in the field and other data furnished by the Contractor. These documents will be signed and sealed by a Professional Engineer or a Professional Land Surveyor licensed in the State of Florida and employed by the Contractor at no cost to the City.
- 1.31 Substantially Completed Date or Substantial Completion – That date, as certified in writing by Consultant and as finally determined by Contract Administrator in its sole discretion, on which the Work, or a portion thereof, is at a level of completion in substantial compliance with the Contract Documents such that all conditions of permits and regulatory agencies have been satisfied and Municipality or its designee can enjoy use or occupancy and can use or operate it in all respects for its intended purpose. A Certificate of Occupancy (or a Temporary Certificate of Occupancy (TCO) or other alternate municipal/county authorization for limited or conditional occupancy acceptable to the Contract Administrator) must be issued for Substantial Completion to be achieved; however, the issuance of a Certificate of Occupancy will not, by itself, constitute the achievement or date of Substantial Completion. If, at the time of inspection, it is determined the project is substantially completed, the City will issue a letter of Substantial Completion along with a punch list of incomplete or deficient items to be completed prior to requesting a Final Completion inspection.
- 1.32 Transportation Surtax Addendum - Transportation Surtax Addendum for Municipal Construction Contracts (Surtax Project #12087 Re-Bid; Bid/Event #94).

- 1.33 Work – The construction and services required by the Contract Documents, whether completed or partially completed, and includes all labor, materials, equipment, and services provided or to be provided by Contractor to fulfill Contractor's obligations. The Work may constitute the whole or a part of the Project.

ARTICLE 2 – SCOPE OF WORK

- 2.1 The Contractor shall complete all work as specified or indicated in the Contract Documents ("Work"). The Project for which the Work under the Contract Documents may be the whole or only part is generally described as follows:

SOUTH OCEAN DRIVE BRIDGE REPLACEMENT
ITB EVENT #94 PROJECT 12087 RE-BID

- 2.2 All Work for the Project shall be constructed in accordance with the approved Plans and Specifications. The Work generally involves:

PROJECT DESCRIPTION

This Project is located at South Ocean Drive, between Mayan Drive and Marion Drive, in the City of Fort Lauderdale, Florida. The work to be accomplished under this contract includes, but is not limited to, complete demolition of the existing bridge and construction of a new bridge in the same location.

- 2.3 Within ten (10) days of the execution of this Agreement, the Contractor shall submit a Construction Schedule, Schedule of Values and a listing of all personnel employed. The general sequence of the Work shall be submitted by the Contractor and approved by the City before any work commences. The City reserves the right to issue construction directives necessary to facilitate the Work or to minimize any conflict with operations.

ARTICLE 3 – PROJECT MANAGER

- 3.1 The Project Manager is hereby designated by the City as **Connie Hayman**, whose address is 100 N. Andrews Avenue, 4th Floor, Fort Lauderdale, FL 33301, telephone number: (954) 828-7150, and email address is chayman@fortlauderdale.gov. The Project Manager will assume all duties and responsibilities and will have the rights and authorities assigned to the Project Manager in the Contract Documents in connection with completion of the Work in accordance with this Agreement.

ARTICLE 4 – CONTRACT DOCUMENTS

The Contract Documents, which comprise the entire Agreement between the City and Contractor, are attached to and incorporated into this Agreement, and consist of the following:

- 4.1 This Agreement.
- 4.2 Exhibits to this Agreement: (Plans sheets [] to [] inclusive).

- 4.3 The Transportation Surtax Addendum.
- 4.4 Public Construction Bond, Performance Bond, Payment Bond and Certificates of Insurance.
- 4.5 Notice of Award and Notice to Proceed.
- 4.6 General Conditions and Special Conditions.
- 4.7 Technical Specifications.
- 4.8 Plans/Drawings.
- 4.9 Addenda number _____ through _____, inclusive.
- 4.10 Bid Form and supplement Affidavits and Agreements.
- 4.11 All applicable provisions of State and Federal Law.
- 4.12 Invitation to Bid No. _____, Instructions to Bidders, and Bid Bond.
- 4.13 Contractor's response to the City's Invitation to Bid No. _____, dated _____.
- 4.14 Schedule of Completion.
- 4.15 All amendments, modifications and supplements, change orders and work directive changes issued on or after the Effective Date of the Agreement.
- 4.16 Any additional documents that are required to be submitted under the Agreement.
- 4.17 Permits on file with the City and or those permits to be obtained shall be considered directive in nature and will be considered a part of this Agreement.

In the event of any conflict between or among the Contract Documents or any ambiguity or missing specification or instruction, the following priority is established:

- a. Transportation Surtax Addendum.
- b. Approved change orders, addenda or amendments.
- c. This Agreement dated _____, and any attachments.
- d. Specifications and Drawings.
- e. Special Conditions.
- f. General Conditions.

- g. Documents included in Invitation to Bid No. _____, that are not specifically enumerated.
- h. Contractor's response to the City's Invitation to Bid No. _____, dated _____.
- i. Schedule of Values.
- j. Schedule of Completion.

If during the performance of the Work, Contractor finds a conflict, error or discrepancy in the Contract Documents, Contractor shall so report to the Project Manager, in writing, within five (5) calendar days, and before proceeding with the Work affected shall obtain a written interpretation or clarification from the City.

Any Work that may reasonably be inferred from the specifications or plans as being required to produce the intended result shall be supplied whether or not it is specifically called for. When words which have a well-known technical or trade meaning are used to describe Work, materials, or equipment, such works shall be interpreted in accordance with such meaning. Reference to standard specifications, manuals or codes of any technical society, organization or associations, or to the code of any governmental authority whether such reference be specific or implied, shall mean the latest standard specification, manual or code in effect as of the Effective Date of this Agreement, except as may be otherwise specifically stated. However, no provision of any referenced standard specification, manual or code (whether or not specifically incorporated by reference in the Contract Documents) shall change the duties and responsibilities of the City, the Contractor, or any of their agents or employees from those set forth in the Contract Documents.

ARTICLE 5 – CONTRACT TIME

- 5.1 Contract Time is the time between commencement and completion of the Work, including any milestone dates thereof, established in Article 3 of the Transportation Surtax Addendum, as may be amended by Change Order.

ARTICLE 6 – CONTRACT PRICE

- 6.1 City shall pay Contractor for performance of the Work in accordance with Article 7, subject to additions and deletions by Change Order, as provided for in this Agreement.
- 6.2 The Parties expressly agree that the Contract Price, which shall not exceed the amount of \$ _____, constitutes the total maximum compensation payable to Contractor for performing the Work, plus any Work done pursuant to a Change Order. The Contract Price is in accordance with the line items unit prices listed in the Bid. Line items are based on a unit price cost multiplied by a defined quantity. Any additional duties, responsibilities and obligations assigned to or undertaken by Contractor shall be at Contractor's expense without change to the Contract Price.

- 6.3 The Contract Price constitutes the compensation payable to Contractor for performing the Work plus any Work done pursuant to a Change Order. All duties, responsibilities and obligations assigned to or undertaken by Contractor shall be at Contractor's expense without change in the Contract price.

ARTICLE 7 – PAYMENT

- 7.1 The City shall make payment to the Contractor by check, and in accordance with Articles 4 and 5 of the Transportation Surtax Addendum.

ARTICLE 8 – CONTRACTOR'S REPRESENTATIONS

In order to induce the City to enter into this Agreement, Contractor makes the following representations upon which the City has relied:

- 8.1 Contractor is qualified in the field of public construction and in particular to perform the Work and services set forth in this Agreement.
- 8.2 Contractor has visited the Work Site, has conducted extensive tests, examinations and investigations and represents and warrants a thorough familiarization with the nature and extent of the Contract Documents, the Work, locality, soil conditions, water table condition moisture conditions and all year-round local weather and climate conditions (past and present), and examination and investigations conducted by Contractor and the Contractor's experts, has determined that no conditions exist that would in any manner affect the Proposed Price and that the project can be completed for the Proposed Price submitted within the Contract Time as defined in this Agreement. Furthermore, Contractor warrants and confirms that it is totally familiar with, understands and obligates Contractor to comply with all federal, state and local laws, ordinances, rules, regulations and all market conditions that affect or may affect the cost and price of materials and labor needed to fulfill all provisions of this Agreement or that in any manner may affect cost, progress or performance of the Work.
- 8.3 The Contractor has satisfied itself as to the nature and location of the Work under the Contract Documents, the general and local conditions of the Project, particularly those bearing upon availability of transportation, disposal, handling and storage of materials, availability of labor, water, electric power, and roads, the conformation and conditions at the ground based on City provided reports, the type of equipment and facilities needed preliminary to and during the prosecution of the Work and all other matters which can in any way affect the Work or the cost thereof under the Contract Documents.
- 8.4 The Contractor has also studied on its own, investigations and tests of subsurface and latent physical conditions at the site or otherwise affecting cost, progress or performance of the Works, and finds and has further determined that no conditions exist that would in any manner affect the Proposed Price and that the Project can be completed for the Proposed Price submitted.

- 8.5 Contractor has made or caused to be made examinations, investigations, tests and studies of such reports and related data in addition to those referred to in Paragraphs 8.2, 8.3 and 8.4 above as it deems necessary for the performance of the Work at the Contract Prices, within the Contract Time and in accordance with the other terms and conditions of the Contract Documents; and no additional examinations, investigations, tests, reports or similar data are, or will be, required by Contractor for such purposes.
- 8.6 Contractor has correlated the results of all such observations, examinations, investigations, tests, reports and data with the terms and conditions of the Contract Documents.
- 8.7 Contractor has given City written notice of all conflicts, errors or discrepancies that it has discovered in the Contract Documents and the written resolution by City is acceptable to the Contractor.
- 8.8 Labor
- 8.8.1 The Contractor shall provide competent, suitable qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. The Contractor shall at all times maintain good discipline and order at the site.
- 8.8.2 The Contractor shall, at all times, have a competent superintendent, capable of reading and thoroughly understanding the drawings and specifications, as the Contractor's agent on the Work, who shall, as the Contractor's agent, supervise, direct and otherwise conduct the Work.
- 8.8.3 The Contractor shall designate the superintendent on the job to the City, in writing, immediately after receipt of the Notice to Proceed. The Contractor understands and agrees that the superintendent's physical presence on the job site is indispensable to the successful completion of the Work. If the superintendent is frequently absent from the job site, the Project Manager may deliver written notice to the Contractor to stop work or terminate the Agreement in accordance with Article 17.
- 8.8.4 The Contractor shall assign personnel to the job site that have successfully completed training programs related to trench safety, confined space and maintenance of traffic. A certified "competent person" shall be assigned to the job site. Personnel certified by the International Municipal Signal Associations with Florida Department of Transportation qualifications are required relative to maintenance of traffic. Failure to pursue the Work with the properly certified supervisory staff may result in notice to stop work or terminate the Agreement in accordance with Article 17.

8.9 Materials:

8.9.1 The Contractor shall furnish all materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water and sanitary facilities and all other facilities and incidentals necessary for the execution, testing, initial operation and completion of Work.

8.9.2 All material and equipment shall be of good quality and new, except as otherwise provided in the Contract Documents. Suppliers shall be selected and paid by the Contractor; the City reserves the right to approve all suppliers and materials.

8.10 Work Hours: Except in connection with the safety or protection of persons, or the Work, or property at the site or adjacent thereto, and except as otherwise indicated in the Supplementary Conditions, all work at the site shall be performed during regular working hours between 8 a.m. and 5:00 p.m., Monday through Friday.

Unless approved by the City in advance, the Contractor will not perform work on Saturday, Sunday or any legal holiday (designated by the City of Fort Lauderdale) without the Project Manager's written consent at least seventy-two (72) hours in advance of starting such work. For any overtime inspection required by City personnel, the Contractor shall pay for the additional charges to the City with respect to such overtime work. Such additional charges shall be a subsidiary obligation of the Contractor and no extra payment shall be made to the Contractor for overtime work. **It shall be noted that the City's Inspector work hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday, and any work requiring inspection oversight being performed outside of this timeframe shall be paid for by the Contractor as Inspector overtime at a rate of \$100.00 per hour.** The cost to the Contractor to reimburse the City for overtime inspection is established at direct-labor and overtime costs for each person or inspector required. Incidental overtime costs for engineering, testing and other related services will also be charged to the Contractor at the actual rate accrued.

8.11 Patent Fee and Royalties: The Contractor shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work, or any invention, design, process, product or device which is the subject of patent rights or copyrights held by others. The Contractor hereby expressly binds himself or itself to indemnify and hold harmless the City from all such claims and fees and from any and all suits and action of every name and description that may be brought against City on account of any such claims, fees, royalties, or costs for any such invention or patent, and from any and all suits or actions that may be brought against said City for the infringement of any and all patents or patent rights claimed by any person, firm corporation or other entity.

8.12 Permits: The Contractor shall obtain and pay for all permits and licenses. There shall be no allowance for Contractor markup, overhead or profit for permits and licenses.

The Contractor shall pay all government charges which are applicable at the time of opening of proposals. It shall be the responsibility of the Contractor to secure and pay

for all necessary licenses and permits of a temporary nature necessary for the prosecution of Work.

- 8.13 Laws and Regulations: The Contractor shall give all notices and comply with all laws, ordinances, rules and regulations applicable to the Work. If the Contractor observes that the specifications or plans are in conflict, the Contractor shall give the Project Manager prompt written notice thereof within five (5) calendar days, and any necessary changes shall be adjusted by any appropriate modifications. If the Contractor performs any work knowing or having reason to know that it is contrary to such laws, ordinances, rules, standards, specifications and regulations, and without such notice to the Project Manager, the Contractor shall bear all costs arising therefrom.
- 8.14 Taxes: The Contractor shall pay all sales, consumer, use and other similar taxes required to be paid by the Contractor in accordance with the laws and ordinances of the City of Fort Lauderdale, County of Broward, and the State of Florida.
- 8.15 Contractor Use of Premises: The Contractor shall confine construction equipment, the storage of materials and equipment and the operations of workmen to areas permitted by law, ordinances, permits and/or the requirements of the Contract Documents, and shall not unreasonably encumber the premises with construction equipment or other materials or equipment.

The Contractor shall not enter upon private property for any purpose without first securing the permission of the property owner in writing and furnishing the Project Manager with a copy of said permission. This requirement will be strictly enforced, particularly with regard to such vacant properties as may be utilized for storage or staging by the Contractor.

The Contractor shall conduct its work in such a manner as to avoid damage to adjacent private or public property. Any damage to existing structures of work of any kind, including permanent reference markers or property corner markers, or the interruption of a utility service, shall be repaired or restored promptly at no expense to the City or property owner.

The Contractor will preserve and protect all existing vegetation such as trees, shrubs and grass on or adjacent to the site which do not reasonably interfere with the construction as determined by the Project Manager. The Contractor will be responsible for replacing or replacing any trees, shrubs, lawns and landscaping that may be damaged due to careless operation of equipment, stockpiling of materials, tracking of grass by equipment or other construction activity. The Contractor will be liable for, or will be required to replace or restore at no expense to the City all properties and areas not protected or preserved as required herein that may be destroyed or damaged.

During the progress of the Work, the Contractor shall keep the premises free from accumulations of waste materials, rubbish and debris resulting from the Work. At the completion of the Work, the Contractor shall remove all waste materials, rubbish and debris from and about the premises as well as all tools, appliances, construction equipment and machinery, and surplus materials and shall leave the site clean and ready for occupancy by the City. The Contractor shall restore to their original condition

those portions of the site not designated for alteration by the Contract Documents at no cost to the City.

- 8.16 Project Coordination: The Contractor shall provide for the complete coordination of the construction effort. This shall include, but not necessarily be limited to, coordination of the following:

- 8.16.1 Flow of material and equipment from suppliers.
- 8.16.2 The interrelated work with affected utility companies.
- 8.16.3 The interrelated work with the City where tie-ins to existing facilities are required.
- 8.16.4 The effort of independent testing agencies.
- 8.16.5 Notice to affected property owners as may be directed by the Project Manager.
- 8.16.6 Coordination with and scheduling of all required inspections from all permitting agencies.

- 8.17 Project Record Documents and Final As-Builts (Record Drawings): Contractor shall be responsible for maintaining up-to-date redline as-built drawings, on site, at all times during construction. All as-built information shall be surveyed and verified by a professional land surveyor registered in the State of Florida. Contractor shall provide the City with a minimum of three (3) sets of signed and sealed record drawings (Final As-Builts) and a CD of the electronic drawings files created in AutoCad 2014 or later. All costs associated with survey work required for construction layout and as-built preparation shall be the responsibility of the Contractor.

- 8.18 Safety and Protection:

- 8.18.1 The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. The Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

- 8.18.1.1 All employees working on the project and other persons who may be affected thereby.
- 8.18.1.2 All the Work and all materials or equipment to be incorporated therein, whether in storage on or off the site.
- 8.18.1.3 Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

- 8.18.2 The Contractor shall comply with all applicable laws, ordinances, rules, regulations and orders of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection.

The Contractor shall notify owners of adjacent property and utilities when execution of the Work may affect them at least seventy-two (72) hours in advance (unless otherwise required). All damage, injury or loss to any property caused, directly or indirectly, in whole or in part by the Contractor, any subcontractor or anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, shall be remedied by the Contractor. The Contractor's

duties and responsibilities for safety and protection of the Work shall continue until such time as all the Work is completed and accepted by the City.

- 8.19 Emergencies: In emergencies affecting the safety or protection of persons or the Work or property at the site or adjacent thereto, the Contractor, without special instruction or authorization from the City is obligated to act to prevent threatened damage, injury or loss. The Contractor shall give the Project Manager prompt written notice of any significant changes in the Work or deviations from the Contract Documents caused thereby.
- 8.20 Risk of Loss: The risk of loss, injury or destruction shall be on the Contractor until acceptance of the Work by the City. Title to the Work shall pass to the City upon acceptance of the Work by the City.
- 8.21 Environmental: The Contractor has fully inspected the Premises and agrees, except as to the presence of any asbestos, to accept the Premises in an "as is" physical condition, without representation or warranty by the City of any kind, including, without limitation, any and all existing environmental claims or obligations that may arise from the presence of any "contamination" on, in or about the Premises. Further, Contractor and all entities claiming by, through or under the Contractor, releases and discharges the City, from any claim, demand, or cause of action arising out of or relating to the Contractor's use, handling, storage, release, discharge, treatment, removal, transport, decontamination, cleanup, disposal and/or presence of any hazardous substances including asbestos on, under, from or about the Premises. The Contractor shall have no liability for any pre-existing claims or "contamination" on the Premises.

The Contractor shall not use, handle, store, discharge, treat, remove, transport, or dispose of Hazardous Substances including asbestos at, in, upon, under, to or from the Premises until receipt of instructions from the City. At such time, a City approved Change Order, which shall not include any profit, shall authorize the Contractor to perform such services.

The Contractor shall immediately deliver to the Project Manager complete copies of all notices, demands, or other communications received by the Contractor from any governmental or quasi-governmental authority or any insurance company or board of fire underwriters or like or similar entities regarding in any way alleged violations or potential violations of any Environmental Law or otherwise asserting the existence or potential existence of any condition or activity on the Premises which is or could be dangerous to life, limb, property, or the environment.

For other and additional consideration, the Contractor hereby agrees, at its sole cost and expense, to indemnify and protect, defend, and hold harmless the City and its respective employees, agents, officials, officers, representatives, contractors and subcontractors, successors, and assigns (hereafter the "City") from and against any and all claims, demands, losses, damages, costs, expenses, including but not limited to mitigation, restoration, and natural restoration expenses, liabilities, assessments, fines, penalties charges, administrative and judicial proceedings and orders, judgments, causes of action, in law or in equity, remedial action requirements and/or enforcement

actions of any kind (including, without limitation, attorneys' fees and costs) directly or indirectly arising out of or attributable to, in whole or in part, the Contractor's use, handling, storage, release, threatened release, discharge, treatment, removal, transport, decontamination, cleanup, disposal and/or presence of a Hazardous Substance (excluding asbestos) on, under, from, to or about the Premises or any other activity carried on or undertaken on or off the Premises by the Contractor or its employees, agents or subcontractors, in connection with the use, handling, storage, release, threatened release, discharge, treatment, mitigation, natural resource restoration, removal, transport, decontamination, cleanup, disposal and/or presence of any Hazardous Substance including asbestos located, transported, or present on, under, from, to, or about the Premises. This indemnity is intended to be operable under 42 U.S.C. Section 9607, as amended or revised, and any successor section.

The scope of the indemnity obligations includes, but is not limited to: (a) all consequential damages; (b) the cost of any required or necessary repair, cleanup, or detoxification of the applicable real estate and the preparation and implementation of any closure, remedial or other required plan, including without limitation; (i) the costs of removal or remedial action incurred by the United States Government or the State of Florida or response costs incurred by any other person, or damages from injury to destruction of, or loss of, natural resources, including the cost of assessing such injury, destruction, or loss, incurred pursuant to the Comprehensive Environmental Response, Compensation and Liability Act, as amended; (ii) the clean-up costs, fines, damages, or penalties incurred pursuant to any applicable provisions of Florida law; and (iii) the cost and expenses of abatement, correction or cleanup, fines, damages, response costs, or penalties which arise from the provisions of any other statute, law, regulation, code ordinance, or legal requirement state or federal; and (c) liability for personal injury or property damage arising under any statutory or common law tort theory, including damages assessed for the maintenance of a public private nuisance, response costs, or for the carrying on of an abnormally dangerous activity.

8.22 No Extended Damages: For other and additional good and valuable consideration the receipt and sufficiency of which are hereby acknowledged, the Contractor covenants and agrees that in the event of any delay of construction or for any other reason or allegation or claim, and notwithstanding the reason for the delay, reason, claim or allegation or who caused them or the construction delay or whether they were caused by the City, that there will be no entitlement to Contractor to or for any direct or indirect financial damages or losses for extended corporate overhead impact, extended project overhead impacts, project support services, mobilization or demobilization or by whatever other label or legal concept or theory and types of names or labels or basis such claims may have, or any business damages or losses of whatever type or nature, and Contractor hereby waives any right to make any such claim or claims. This provision will have application and effect when construction delays are anticipated and agreed upon by both the City and the Contractor.

8.23 No Liens: If any subcontractor, supplier, laborer, or materialmen of Contractor or any other person directly or indirectly acting for or through Contractor files or attempts to file a mechanic's or construction lien against the real property on which the Work is performed or any part or against any personal property or improvements or claim against any monies due or to become due from the City to Contractor or from Contractor to a

subcontractor, for or on account of any work, labor, services, material, equipment, or other items furnished in connection with the Work or any Change Order, Contractor agrees to satisfy, remove, or discharge such lien or claim at its own expense by bond, payment, or otherwise within twenty (20) days of the filing or from receipt of written notice from the City.

Additionally, until such time as such lien or claim is satisfied, removed or discharged by Contractor, all monies due to Contractor, or that become due to Contractor before the lien or claim is satisfied, removed or otherwise discharged, shall be held by City as security for the satisfaction, removal and discharge of such lien and any expense that may be incurred while obtaining such. If Contractor shall fail to do so, City shall have the right, in addition to all other rights and remedies provided by this Agreement or by law, to satisfy, remove, or discharge such lien or claim by whatever means City chooses at the entire and sole cost and expense of Contractor which costs and expenses shall, without limitation, include attorney's fees, litigation costs, fees and expenses and all court costs and assessments.

- 8.24 Weather Emergencies: Upon issuance of a hurricane watch by the National Weather Service, the Contractor shall submit to the City a plan to secure the work area in the event a hurricane warning is issued. The plan shall detail how the Contractor will secure the Premises, equipment and materials in a manner as to prevent damage to the Work and prevent materials and equipment from becoming a hazard to persons and property on and around the Premises. The plan shall include a time schedule required to accomplish the hurricane preparations and a list of emergency contacts that will be available and in the City before, during and immediately after the storm.

Upon issuance of a hurricane warning by the National Weather Service, if the Contractor has not already done so, the Contractor shall implement its hurricane preparedness plan. Cost of development and implementation of the hurricane preparedness plan shall be considered as incidental to construction. Cost of any clean up and rework required after the storm will be considered normal construction risk within Florida and shall not entitle the Contractor to any additional compensation. Contractor shall be entitled to request an extension in time for completion of the Work, in accordance with the provisions of Article 15 of this Agreement, equal to the time it is shut down for implementation of the preparedness plan, the duration of the storm and a reasonable period to restore the Premises.

- 8.25 Force Majeure: No Party shall hold the other responsible for damages or for delays in performance caused by force majeure, acts of God, or other acts or circumstances beyond the control of the other Party or that could not have been reasonably foreseen and prevented. For this purpose, such acts or circumstances shall include, but not be limited to weather conditions affecting performance, floods, epidemics, pandemics, war, act of Governmental Authority, state of emergency, war, riots, strikes, lockouts, or other industrial disturbances, or protest demonstrations. Should such acts or circumstances occur, the parties shall use their best efforts to overcome the difficulties arising therefrom and to resume the Work as soon as reasonably possible with the normal pursuit of the Work.

Inclement weather, continuous rain for less than three (3) days or the acts or omissions of subcontractors, third-party contractors, materialmen, suppliers, or their subcontractors, shall not be considered acts of force majeure.

No Party shall be liable for its failure to carry out its obligations under the Agreement during a period when such Party is rendered unable by force majeure to carry out its obligation, but the obligation of the Party or Parties relying on such force majeure shall be suspended only during the continuance of the inability and for no longer period than the unexpected or uncontrollable event.

The Contractor further agrees and stipulates, that its right to excuse its failure to perform by reason of force majeure shall be conditioned upon giving written notice of its assertion that a Force Majeure delay has commenced within 96 hours after such an occurrence. The Contractor shall use its reasonable efforts to minimize such delays. The Contractor shall promptly provide an estimate of the anticipated additional time required to complete the Project.

- 8.26 Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assisted Contracts: The recipient shall not discriminate on the basis of race, color, national origin, or sex in the award and performance of any DOT-assisted contract or in the administration of its DBE program or the requirements of 49 CFR Part 26. The recipient shall take all necessary and reasonable steps under 49 CFR Part 26 to ensure nondiscrimination in the award and administration of DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR Part 26 and as approved by DOT, is incorporated by reference in this Agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as a violation of this Agreement. Upon notification to the recipient of its failure to carry out its approved program, the Department may impose sanctions as provided for under part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31 U.S.C. 3801 *et seq.*).

Additionally, the Contractor assures that it, the sub recipient or the subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Agreement. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this Agreement, which may result in the termination of this Agreement or such other remedy as the recipient deems appropriate. This additional language must be included in each subcontract the prime Contractor signs with a subcontractor.

ARTICLE 9 – CITY’S RESPONSIBILITIES

- 9.1 The City shall furnish the data required of the City under the Contract Documents promptly and shall make payments to the Contractor promptly after they are due as provided in Article 7.
- 9.2 The City shall provide public rights-of-way and easement, where available, for the installation of conduits, transformers pads and related appurtenances only.
- 9.3 Technical Clarifications and Interpretations:
- 9.3.1 The City shall issue, with reasonable promptness, such written clarifications or interpretations of the Contract Documents as it may determine necessary, which

shall be consistent with or reasonably inferable from the overall intent of the Contract Documents. Should the Contractor fail to request interpretation of questionable items in the Contract Documents, the City shall not entertain any excuse for failure to execute the Work in a satisfactory manner.

9.3.2 The City shall interpret and decide matters concerning performance under the requirements of the Contract Documents, and shall make decisions on all claims, disputes or other matters in question. Written notice of each claim, dispute or other matter will be delivered by claimant to the other Party but in no event later than five (5) days after the occurrence of event, and written supporting data will be submitted to the other Party within five (5) days after such occurrence. All written decisions of the City on any claim or dispute will be final and binding.

9.4 The Contractor shall perform all Work to the reasonable satisfaction of the City in accordance with the Contract Documents. In cases of disagreement or ambiguity, the City shall decide all questions, difficulties, and disputes of whatever nature, which may arise under or by reason of this Agreement or the quality, amount and value of the Work, and the City's decisions on all claims, questions and determination are final.

9.5 Cancellation for Unappropriated Funds: The obligation of the City for payment to a Contractor is limited to the availability of funds appropriated in a current fiscal period, and continuation of the contract into a subsequent fiscal period is subject to appropriation of funds, unless otherwise authorized by law.

ARTICLE 10 – BONDS AND INSURANCE

10.1 Performance and Payment Bonds: The Contractor shall furnish Performance and Payment Bonds in accordance with Articles 6 and 7 of the Transportation Surtax Addendum.

10.2 Disqualification of Surety: If the Surety on any Bond furnished by the Contractor is declared bankrupt or becomes insolvent or its right to do business is terminated in the State of Florida or it ceases to meet the requirements of Article 7 of the Transportation Surtax Addendum, the Contractor shall within five (5) days thereafter substitute another Bond and Surety, both of which shall be subject to the City's approval.

10.3 Insurance

As a condition precedent to the effectiveness of this Agreement, during the term of this Agreement and during any renewal or extension term of this Agreement, Contractor, at its sole expense, shall provide insurance of such types and with such terms and limits as noted below. Providing proof of and maintaining adequate insurance coverage are material obligations of Contractor. Contractor shall provide the City a certificate of insurance evidencing such coverage. Contractor's insurance coverage shall be primary insurance for all applicable policies, in respect to the City's interests. The limits of coverage under each policy maintained by Contractor shall not be interpreted as limiting Contractor's liability and obligations under this Agreement. All insurance policies shall be through insurers authorized or eligible to write policies in the State of Florida and possess an A.M. Best rating of A-, VII or better, subject to approval by the City's Risk Manager.

The coverages, limits, and/or endorsements required herein protect the interests of the City, and these coverages, limits, and/or endorsements shall in no way be relied upon by Contractor for assessing the extent or determining appropriate types and limits of coverage to protect Contractor against any loss exposures, whether as a result of this Agreement or otherwise. The requirements contained herein, as well as the City's review or acknowledgement, are not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by Contractor under this Agreement.

The following insurance policies and coverages are required:

Commercial General Liability

Coverage must be afforded under a Commercial General Liability policy with limits not less than:

- \$2,000,000 each occurrence and \$2,000,000 aggregate for Bodily Injury, Property Damage, and Personal and Advertising Injury
- \$2,000,000 each occurrence and \$2,000,000 aggregate for Products and Completed Operations

Policy must include coverage for contractual liability and independent contractors.

The City, a Florida municipality, its officials, employees, and volunteers are to be covered as an additional insured with a CG 20 26 04 13 Additional Insured – Designated Person or Organization Endorsement or similar endorsement providing equal or broader Additional Insured Coverage with respect to liability arising out of activities performed by or on behalf of Contractor. The coverage shall contain no special limitation on the scope of protection afforded to the City, its officials, employees, and volunteers.

Business Automobile Liability

Coverage must be afforded for all Owned, Hired, Scheduled, and Non-Owned vehicles for Bodily Injury and Property Damage in an amount not less than \$2,000,000 combined single limit each accident.

If Contractor does not own vehicles, Contractor shall maintain coverage for Hired and Non-Owned Auto Liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

Crane and Rigging Liability

Coverage must be afforded for any crane operations under the Commercial General or Business Automobile Liability policy as necessary, in line with the limits of the associated policy.

Pollution and Remediation Legal Liability (Hazardous Materials)

For the purpose of this section, the term "hazardous materials" includes all materials and substances that are designated or defined as hazardous by Florida or federal law or by the rules or regulations of Florida or any federal agency. If work being performed involves hazardous materials, Contractor shall procure and maintain any or all of the following coverages (which will be specifically addressed upon review of exposure):

Contractors Pollution Liability Coverage

For sudden and gradual occurrences and in an amount not less than \$1,000,000 per claim arising out of this Agreement, including but not limited to, all hazardous materials identified under the Agreement.

Asbestos Liability Coverage

For sudden and gradual occurrences and in an amount not less than \$1,000,000 per claim arising out of work performed under this Agreement.

Hazardous Waste Transportation Coverage

Contractor shall designate the hauler and furnish a Certificate of Insurance from the hauler for Automobile Liability insurance with Endorsement MCS90 for liability arising out of the transportation of hazardous materials in an amount not less than \$1,000,000 per claim limit and provide a valid EPA identification number.

Disposal Coverage

Contractor shall designate the disposal site and furnish a Certificate of Insurance from the disposal facility for Environmental Impairment Liability insurance, covering liability for sudden and accidental occurrences in an amount not less than \$1,000,000 per claim and shall include liability for non-sudden occurrences in an amount not less than \$1,000,000 per claim.

Watercraft Liability (Protection and Indemnification)

Coverage must be afforded in an amount not less than \$1,000,000 per occurrence and must cover the utilization of watercraft, including Bodily Injury and Property Damage arising out of ownership, maintenance, or use of any watercraft, including owned, non-owned, and hired.

Coverage may be provided in the form of an endorsement to the Commercial General Liability policy, or in the form of a separate policy covering Watercraft Liability or Protection and Indemnity for Bodily Injury and Property Damage.

Workers' Compensation and Employer's Liability

Coverage must be afforded per Chapter 440, Florida Statutes. Any person or entity performing work for or on behalf of the City must provide Workers' Compensation insurance. Exceptions and exemptions will be allowed by the City's Risk Manager, if they are in accordance with Florida Statute.

Contractor waives, and Contractor shall ensure that Contractor's insurance carrier waives, all subrogation rights against the City, its officials, employees, and volunteers for all losses or damages. The City requires the policy to be endorsed with WC 00 03 13 Waiver of our Right to Recover from Others or equivalent.

Contractor must be in compliance with all applicable State and federal workers' compensation laws, including the U.S. Longshore and Harbor Workers' Compensation Act and the Jones Act, if applicable.

Insurance Certificate Requirements

- a. Contractor shall provide the City with valid Certificates of Insurance (binders are unacceptable) no later than ten (10) days prior to the start of work contemplated in this Agreement.
- b. Contractor shall provide to the City a Certificate of Insurance having a thirty (30) day notice of cancellation; ten (10) days' notice if cancellation is for nonpayment of premium.
- c. In the event that the insurer is unable to accommodate the cancellation notice requirement, it shall be the responsibility of Contractor to provide the proper notice. Such notification will be in writing by registered mail, return receipt requested, and addressed to the certificate holder.
- d. In the event the Agreement term or any surviving obligation of Contractor following expiration or early termination of the Agreement goes beyond the expiration date of the insurance policy, Contractor shall provide the City with an updated Certificate of Insurance no later than ten (10) days prior to the expiration of the insurance currently in effect. The City reserves the right to suspend the Agreement until this requirement is met.

- e. The Certificate of Insurance shall indicate whether coverage is provided under a claims-made or occurrence form. If any coverage is provided on a claims-made form, the Certificate of Insurance must show a retroactive date, which shall be the effective date of the initial contract or prior.
- f. The City shall be covered as an Additional Insured on all liability policies, with the exception of Workers' Compensation.
- g. The City shall be granted a Waiver of Subrogation on Contractor's Workers' Compensation insurance policy.
- h. The title of the Agreement, Bid/Contract number, event dates, or other identifying reference must be listed on the Certificate of Insurance.

The Certificate Holder should read as follows:

City of Fort Lauderdale
100 N. Andrews Avenue
Fort Lauderdale, FL 33301

Contractor has the sole responsibility for all insurance premiums and shall be fully and solely responsible for any costs or expenses as a result of a coverage deductible, co-insurance penalty, or self-insured retention; including any loss not covered because of the application of such deductible, co-insurance penalty, self-insured retention, or coverage exclusion or limitation. Any costs for adding the City as an Additional Insured shall be at Contractor's expense.

If Contractor's primary insurance policy/policies do not meet the minimum requirements as set forth in this Agreement, Contractor may provide evidence of an Umbrella/Excess insurance policy to comply with this requirement.

Contractor's insurance coverage shall be primary insurance in respect to the City's interests, a Florida municipality, its officials, employees, and volunteers. Any insurance or self-insurance maintained by the City shall be non-contributory.

Any exclusion or provision in any insurance policy maintained by Contractor that excludes coverage required in this Agreement shall be deemed unacceptable and shall be considered breach of contract.

All required insurance policies must be maintained until the contract work has been accepted by the City, or until this Agreement is terminated, whichever is later. Any lapse in coverage may be considered breach of contract. In addition, Contractor must provide to the City confirmation of coverage renewal via an updated certificate of insurance should any policies expire prior to the expiration of this Agreement. The City reserves the right to review, at any time, coverage forms and limits of Contractor's insurance policies.

Contractor shall provide notice of any and all claims, accidents, and any other occurrences associated with this Agreement to Contractor's insurance company or companies and the City's Risk Management office as soon as practical.

It is Contractor's responsibility to ensure that any and all of Contractor's independent contractors and subcontractors comply with these insurance requirements. All coverages for independent contractors and subcontractors shall be subject to all of the applicable requirements stated herein. Any and all deficiencies are the responsibility of Contractor. The City reserves the right to adjust insurance limits from time to time at its discretion with notice to Contractor.

Bond Requirements

This Agreement is required to be bonded in accordance with Articles 6 and 7 of the Transportation Surtax Addendum and Section 255.05, Florida Statutes (2022), and as provided in the Instructions to Bidders contained in Invitation to Bid/Event No. 94.

All bonds must be underwritten by a surety company authorized to issue bonds in the State of Florida. The Contractor shall deliver required bonds to the City no later than thirty (30) days prior to the start of the Work contemplated in this Agreement.

If the Surety on any bond furnished by the Contractor is declared bankrupt, becomes insolvent, its right to do business is terminated in the State of Florida, or it ceases to meet the requirements of Section 255.05, Florida Statutes (2022), the Contractor shall within five (5) days thereafter substitute Surety, subject to the City's approval.

Loss Control/Safety

Precaution shall be exercised at all times by the Contractor for the protection of all persons, including employees, and property. The Contractor shall comply with all laws, regulations, or ordinances relating to safety and health, and shall make special effort to detect hazardous conditions and shall take prompt action where loss control/safety measures should reasonably be expected.

The City may order work to be stopped if conditions exist that present immediate danger to persons or property. The Contractor acknowledges that such stoppage will not shift responsibility for any loss or damages from the Contractor to the City.

NOTE: CITY PROJECT NUMBER, PROJECT NAME AND BID NUMBER MUST APPEAR ON EACH CERTIFICATE, AND THE CITY OF FORT LAUDERDALE MUST BE NAMED ON THE CERTIFICATE AS AN "ADDITIONAL INSURED" ON REQUIRED LIABILITY POLICIES.

A Sample Insurance Certificate shall be included with the bid to demonstrate the firm's ability to comply with insurance requirements. Provide a previous certificate or other evidence listing the insurance companies' names for all required coverage, and the dollar amounts of the coverage.

ARTICLE 11. WARRANTY AND GUARANTEE, TESTS AND INSPECTIONS, CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK

11.1 Warranty. The Contractor warrants and guarantees to the City that all Work will be in accordance with the Contract Documents and will not be defective. Prompt notice of all defects shall be given to the Contractor. All defective work, whether or not in place, may be rejected, corrected or accepted as provided in this Article.

11.1.1 Warranty of Title: The Contractor warrants to the City that it possesses good, clear and marketable title to all equipment and materials provided and that there are no pending liens, claims or encumbrances against the equipment and materials.

11.1.2 Warranty of Specifications: The Contractor warrants that all equipment, materials and workmanship furnished, whether furnished by the Contractor, its subcontractors or suppliers, will comply with the specifications, drawings and other descriptions supplied or adopted and that all services will be performed in a workmanlike manner.

11.1.3 Warranty of Merchantability: The Contractor warrants that any and all equipment to be supplied pursuant to this Agreement is merchantable, free from defects, whether patent or latent in material or workmanship, and fit for the ordinary purposes for which it is intended.

11.2 Tests and Inspections: Contractor shall retain the services of an independent, certified, testing lab to perform all testing as required by the specifications, contract drawings, and any applicable permitting agency. Contractor shall provide evidence of certification to the City before the work and testing is done. Testing results shall be submitted to the Project Manager for review and approval at the time the results are provided to the Contractor. The Contractor shall give the Project Manager and City Inspector a minimum of twenty-four (24) hours' advanced notice of readiness of the Work for all required inspections, tests, or approvals and shall notify all applicable permitting agencies in a timely manner based on requirements set forth in the permit documents.

11.2.1 Neither observations by the Project Manager nor inspections, tests or approvals by others shall relieve the Contractor from the Contractor's obligations to perform the Work in accordance with the Contract Documents.

11.2.2 If any law, ordinance, rule, regulation, code, or order of any public body having jurisdiction requires any Work or any part thereof to be inspected, tested or approved, the Contractor shall assume full responsibility, pay all costs in connection therewith, and furnish the Project Manager the required certificates of inspection, testing, or approval. The Contractor shall also be responsible for and shall pay all costs in connection with, any inspection or testing required by the City of materials proposed for use in the Work, and the City's approval of manufacturers, fabricators, suppliers, or distributors of materials prior to the Contractor's purchase of materials for incorporation into the Work.

11.2.3 All inspections, tests or approvals other than those required by law, ordinance, rule, regulation, code or order of any public body having jurisdiction shall be performed by the City or by a professional testing firm designated by the City. The City will pay for sampling and testing if the test results are passing. The Contractor will reimburse the City for sampling, testing, and retesting costs associated with failing tests.

11.3 Uncovering Work: If any work that is to be inspected, tested or approved is covered without approval or consent of the Project Manager, it must, if requested by the Project Manager, be uncovered for observation and/or testing. Such uncovering and replacement shall be at the Contractor's sole expense unless the Contractor has given the Project Manager timely notice of the Contractor's intention to cover such Work and the Project Manager has not acted with reasonable promptness in response to such notice.

11.3.1 If the Project Manager considers it necessary or advisable that Work covered in accordance with Paragraphs 11.2.1, 11.2.2 and 11.2.3 be observed by the City or inspected or tested by others, the Contractor at the City's request, shall uncover, expose or otherwise make available for observation, inspection or testing as the Project Manager may require, that portion of the Work in question, furnishing all necessary labor, material and equipment. If it is found that such Work is defective, the Contractor shall bear all the expenses of such uncovering, exposure, observation, inspection and testing and of satisfactory reconstruction, including compensation for additional professional services, and an appropriate deductive Change Order shall be issued. If, however, such work is not found to be defective, the Contractor shall be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to such uncovering, exposure, observation, inspection testing and reconstruction if it makes a claim therefore as provided in Articles 14 and 15.

11.4 City May Stop the Work: If the Work is defective, or the Contractor fails to supply sufficient skilled supervisory personnel or workmen or suitable materials or equipment or the work area is deemed unsafe, the City may order the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of the City to stop the Work shall not give rise to any duty on the part of the City to exercise this right for the benefit of the Contractor or any other Party. The City will not award any increase in Contract Price or Contract Time if the Work is stopped due to the circumstances described herein.

11.5 Correction or Removal of Defective Work Before Final Payment: If required by the Project Manager, the Contractor shall promptly, without cost to the City and as specified by the Project Manager, either correct any defective Work, whether or not fabricated, installed or completed, or if the Work has been rejected by the City remove it from the site and replace it with non-defective Work.

11.6 One Year Correction Period After Final Payment: If within one (1) year after the date of Final Completion and acceptance of the Work, as provided in the Transportation Surtax Addendum, or within one (1) year after completion of the work and the Contractor's receipt of final payment, whichever is later, or such longer period of time as may be prescribed by law or by the terms of any applicable special guarantee required by the Contract Documents, any Work is found to be defective, the Contractor shall promptly, without cost to the City and in accordance with the City's written instructions, either correct such defective Work, or, if it has been rejected by the City, remove it from the site and replace it with non-defective Work.

If the Contractor does not promptly comply with the terms of such instructions or in an emergency where delay would cause serious risk of loss or damage, the City may have the defective Work corrected or the rejected Work removed and replaced, and all direct and indirect costs for such removal and replacement, including compensation for additional professional services, shall be paid by the Contractor.

11.7 Acceptance of Defective Work, Deductions: If, instead of requiring correction or removal and replacement of defective Work, the City, at the City's sole option, prefers to accept it, the City may do so. In such a case, if acceptance occurs prior to the Project Manager's recommendation of final payments, a Change Order shall be issued incorporating the necessary revisions in the Contract's Documents, including

appropriate reduction in the Contract Price; or if the acceptance occurs after such recommendation, an appropriate amount shall be paid by the Contractor to the City.

- 11.8 City May Correct Defective Work: If the Contractor fails within a reasonable time after written notice of the Project Manager to proceed to correct defective Work or to remove and replace rejected Work as required by the Project Manager in accordance with Paragraph 11.5, or if the Contractor fails to perform the Work in accordance with the Contract Documents, the City may, after seven (7) days written notice to the Contractor, correct and remedy any such deficiency. In exercising its rights under this paragraph, the City shall proceed expeditiously. To the extent necessary to complete corrective and remedial action, the City may exclude the Contractor from all or part of the site, take possession of all or part of the Work, suspend the Contractor's services related thereto and take possession of the Contractor's tools, construction equipment and materials stored at the site or elsewhere. The Contractor shall allow the City's representative agents and employees such access to the site as may be necessary to enable the City to exercise its rights under this paragraph. All direct and indirect costs of the City in exercising such rights shall be charged against the Contractor in an amount verified by the Project Manager, and a Change Order shall be issued incorporating the necessary revisions in the Contract Documents and a reduction in the Contract Price. Such direct and indirect costs shall include, in particular but without limitation, compensation for additional professional services required and costs of repair and replacement of work of others destroyed or damaged by correction, removal or replacement of the Contractor's defective Work. The Contractor shall not be allowed an extension of the Contract Time because of any delay in performance of the Work attributable to the exercise by the City of the City's right hereunder.

ARTICLE 12 – INDEMNIFICATION

- 12.1 Disclaimer of Liability: The City shall not at any time, be liable for injury or damage occurring to any person or property from any cause, whatsoever, arising out of Contractor's construction and fulfillment of this Agreement.
- 12.2 Indemnification: For other, additional good valuable consideration, the receipt and sufficiency of which is hereby acknowledged:
- 12.2.1 Contractor shall, at Contractor's sole cost and expense, defend, counsel being subject to the City's approval, and indemnify and hold harmless the City, and the City's representatives, employees and elected and appointed officials from or on account of all claims, damages, judgments, settlements, losses, liabilities, fines, penalties, and expenses, direct, indirect or consequential including but not limited to fees and charges of engineers, architects, attorneys, consultants and other professionals and court costs arising out of or in consequence of the performance of this Agreement at all trial and appellate levels. Indemnification shall specifically include but not be limited to, claims, damages, judgments, settlements, losses, liabilities, fines, penalties, and expenses arising out of or from (a) the negligent or defective design of the project and Work of this Agreement; (b) any act, omission or default of the Contractor, its subcontractors, agents, servants or employees; (c) any and all bodily injuries, sickness, disease or death; (d) injury to or destruction of tangible property, including any resulting loss of use; (e) other such damages, liabilities, or losses received or sustained by any person or persons during or on account of any operations connected with

the construction of this Project including the warranty period; (f) the use of any improper materials; (g) any construction defect including both patent and latent defects; (h) failure to timely complete the work; (i) the violation of any federal, state, county or City laws, ordinances or regulations by Contractor, its subcontractors, agents, servants, independent contractors or employees; (j) the breach or alleged breach by Contractor of any term of the Agreement, including the breach or alleged breach of any warranty or guarantee.

12.2.2 Contractor agrees to indemnify, defend, counsel being subject to the City's approval, and indemnify and hold harmless the City, and the City's officers, agents and employees, from all damages, liabilities, losses, claims, fines and fees, and from any and all suits and actions of every name and description that may be brought against City, its officers, agents and employees, on account of any claims, fees, royalties, or costs for any invention or patent and/or for the infringement of any and all copyrights or patent rights claimed by any person, firm, or corporation.

12.2.3 Contractor shall pay all claims, losses, liens, settlements or judgments of any nature in connection with the foregoing indemnifications including, but not limited to, reasonable attorney's fees and costs for trials and appeals.

12.2.4 If any subcontractor, supplier, laborer, or materialmen of Contractor or any other person directly or indirectly acting for or through Contractor files or attempts to file a mechanic's or construction lien against the real property on which the work is performed or any part or against any personal property or improvements thereon or make a claim against any monies due or to become due from the City to Contractor or from Contractor to a subcontractor, for or on account of any work, labor, services, material, equipment, or other items furnished in connection with the Work or any change order, Contractor agrees to satisfy, remove, or discharge such lien or claim at its own expense by bond, payment, or otherwise within five (5) days of the filing or from receipt of written notice from the City.

Additionally, until such time as such lien or claim is satisfied, removed or discharged by Contractor, all monies due to Contractor, or that become due to Contractor before the lien or claim is satisfied, removed or otherwise discharged, shall be held by City as security for the satisfaction, removal and discharge of such lien and any expense that may be incurred while obtaining the discharge. If Contractor shall fail to do so, City shall have the right, in addition to all other rights and remedies provided by this Agreement or by law, to satisfy, remove, or discharge such lien or claim by whatever means City chooses at the entire and sole cost and expense of Contractor which costs and expenses shall, without limitation, include attorney's fees, litigation costs, fees and expenses and all court costs and assessments, and which shall be deducted from any amount owing to Contractor. In the event the amount due Contractor is less than the amount required to satisfy Contractor's obligation under this, or any other article, paragraph or section of this Agreement, the Contractor shall be liable for the deficiency due the City.

12.2.5 The Contractor and the City agree that Section 725.06(2), Florida Statutes (2022), as may be amended or revised, controls the extent and limits of the indemnification and hold harmless provisions of this Agreement, if any, and that the Parties waive any defects in the wording of this Article that runs afoul of said statutory section.

ARTICLE 13 – CHANGES IN THE WORK

13.1 Without invalidating this Agreement, the City may, at any time or from time-to-time order additions, deletions or revisions in the Work through the issuance of Change Orders in accordance with the Transportation Surtax Addendum.

ARTICLE 14 – CHANGE OF CONTRACT PRICE

14.1 Any change of Contract Price, if approved by the City, shall be computed as provided in the Transportation Surtax Addendum.

ARTICLE 15 – CHANGE OF THE CONTRACT TIME

15.1 The Contract Time may only be changed by a Change Order as provided in the Transportation Surtax Addendum.

ARTICLE 16 – LIQUIDATED DAMAGES

16.1 Upon failure of the Contractor to complete the Work within the time specified for completion, the Contractor shall pay to the City liquidated damages as provided in Article 3 of the Transportation Surtax Addendum.

ARTICLE 17 – SUSPENSION OF WORK AND TERMINATION

17.1 City May Suspend Work. The City may, at any time and without cause, suspend the Work or any portion of the Work for a period of not more than ninety (90) days by notice in writing to the Contractor which shall fix the date on which Work shall be resumed. The Contractor shall resume the Work on the date fixed. The Contractor will be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to any suspension, if the Contractor makes a claim as provided in Articles 14 and 15.

17.2 City's Right to Terminate Contract: The City may terminate this Agreement upon fifteen (15) calendar days' written notice upon the occurrence of any one or more of the following events:

17.2.1 If the Contractor makes a general assignment for the benefit of creditors.

17.2.2 If a trustee, receiver, custodian or agent of the Contractor is appointed under applicable law or under Contract, whose appointment or authority to take charge of property of the Contractor is for the purpose of enforcing a lien against such property or for the purpose of general administration of such property for the benefit of the Contractor's creditors.

17.2.3 If Contractor fails to begin the Work within fifteen (15) calendar days after the Project Initiation Date, or fails to perform the Work with sufficient workers and equipment or with sufficient materials to ensure the prompt completion of the Work, or shall perform the Work unsuitably, or cause it to be rejected as defective and unsuitable, or shall discontinue the prosecution of the Work pursuant to the accepted schedule or if Contractor shall fail to perform any material term set forth in the Contract Documents, or from any other cause whatsoever shall not carry on the Work in an acceptable manner, Project Manager may give notice in writing to Contractor and its Surety of such delay, neglect or default, specifying the same.

17.2.4 If the Contractor repeatedly fails to make prompt payments to subcontractors or for labor, material or equipment.

17.2.5 If the Contractor repeatedly disregards proper safety procedures.

17.2.6 If the Contractor disregards any local, state or federal laws or regulations.

17.2.7 If the Contractor otherwise violates any provisions of this Agreement.

17.3 If Contractor, within a period of ten (10) calendar days after such notice, shall not proceed in accordance therewith, the City may exclude the Contractor from the Work site and take the prosecution of the Work out of the hands of the Contractor, and take possession of the Work and all of the Contractor's tools, appliances, construction equipment and machinery at the site and use them without liability to the City for trespass or conversion, incorporate in the Work all materials and equipment stored at the site or for which the City has paid the Contractor but which are stored elsewhere, and finish the Work as the City may deem expedient. In this instance, the Contractor shall not be entitled to receive any further compensation until the Work is finished.

17.3.1 If after notice of termination of Contractor's right to proceed, it is determined for any reason that Contractor was not in default, the rights and obligations of City and Contractor shall be the same as if the notice of termination had been issued pursuant to the Termination for Convenience clause as set forth in Section 17.5 below.

17.3.2 Upon receipt of Notice of Termination pursuant to Sections 17.2 or 17.5, Contractor shall promptly discontinue all affected work unless the Notice of Termination directs otherwise and deliver or otherwise make available to City all data, drawings, specifications, reports, estimates, summaries and such other information as may have been required by the Contract Documents whether completed or in process.

17.4 If the Contractor commits a default due to its insolvency or bankruptcy, the following shall apply:

17.4.1 Should this Agreement be entered into and fully executed by the Parties, funds released and the Contractor (Debtor) files for bankruptcy, the following shall occur:

17.4.1.1 In the event the Contractor files a voluntary petition under 11 U.S.C. 301 or 302, or an order for relief is entered under 11 U.S.C. 303, the

Contractor shall acknowledge the extent, validity, and priority of the lien recorded in favor of the City. The Contractor further agrees that in the event of this default, the City shall, at its option, be entitled to seek relief from the automatic stay pursuant to 11 U.S.C. 362. The City shall be entitled to relief from the automatic stay pursuant to 11 U.S.C. 362(d) (1) or (d) (2), and the Contractor agrees to waive the notice provisions in effect pursuant to 11 U.S.C. 362 and any applicable Local Rules of the United States Bankruptcy Court. The Contractor acknowledges that such waiver is done knowingly and voluntarily.

17.4.1.2 Alternatively, in the event the City does not seek stay relief, or if stay relief is denied, the City shall be entitled to monthly adequate protection payments within the meaning of 11 U.S.C. 361. The monthly adequate protection payments shall each be in an amount determined in accordance with the Note and Mortgage executed by the Contractor in favor of the City.

17.4.1.3 In the event the Contractor files for bankruptcy under Chapter 13 of Title 11, United States Code in addition to the foregoing provisions, the Contractor agrees to cure any amounts in arrears over a period not to exceed twenty-four (24) months from the date of the confirmation order, and such payments shall be made in addition to the regular monthly payments required by the Note and mortgage. Additionally, the Contractor shall agree that the City is over secured and, therefore, entitled to interest and attorney's fees pursuant to 11 U.S.C. 506(b). Such fees shall be allowed and payable as an administrative expense. Further, in the event the Contractor has less than five (5) years of payments remaining on the Note, the Contractor agrees that the treatment afforded to the claim of the City under any confirmed plan of reorganization shall provide that the remaining payments shall be satisfied in accordance with the Note, and that the remaining payments or claim shall not be extended or amortized over a longer period than the time remaining under the Note.

17.4.2 Should this Agreement be entered into and fully executed by the parties, and the funds have not been forwarded to Contractor, the following shall occur:

17.4.2.1 In the event the Contractor files a voluntary petition pursuant to 11 U.S.C. 301 or 302, or an order for relief is entered under 11 U.S.C. 303., the Contractor acknowledges that the commencement of a bankruptcy proceeding constitutes an event of default under the terms of this Agreement. Further, the Contractor acknowledges that this Agreement constitutes an executory contract within the meaning of 11 U.S.C. 365. The Contractor acknowledges that this Agreement is not capable of being assumed pursuant to 11 U.S.C. 365(c)(2), unless the City expressly consents in writing to the assumption. In the event the City consents to the assumption, the Contractor agrees to file a motion to assume this Agreement within ten (10) days after receipt of written consent from the City, regardless of whether the bankruptcy proceeding

is pending under Chapter 7, 11, or 13 of Title 11 of the United States Code. The Contractor further acknowledges that this Agreement is not capable of being assigned pursuant to 11 U.S.C. 365(b)(1).

- 17.5 Termination for Convenience: This Agreement may be terminated for convenience in writing by City upon thirty (30) days written notice to Contractor (delivered by certified mail, return receipt requested) of intent to terminate and the date on which such termination becomes effective. In such case, Contractor shall be paid for all work executed and expenses incurred prior to termination in addition to termination settlement costs reasonably incurred by Contractor relating to commitments which had become firm prior to the termination. Payment shall include reasonable profit for work/services satisfactorily performed. No payment shall be made for profit for work/services which have not been performed.
- 17.6 Where the Contractor's service has been so terminated by the City, the termination shall not affect any rights of the City against the Contractor then existing or which may thereafter accrue. Any retention or payment of moneys due the Contractor by the City will not release the Contractor from liability.
- 17.7 The Contractor has no right, authority or ability to terminate the Work except for the wrongful withholding of any payments due the Contractor from the City.

ARTICLE 18 – DISPUTE RESOLUTION

- 18.1 Resolution of Disputes: Questions, claims, difficulties, and disputes of whatever nature which may arise relative to the technical interpretation of the Contract Documents and fulfillment of this Agreement as to the character, quality, amount and value of any work done and materials furnished, or proposed to be done or furnished under or, by reason of, the Contract Documents which cannot be resolved by mutual agreement of the Project Manager or the Consultant and the Contractor shall be submitted to the City's Director – Public Works ("Public Works Director") for resolution. The Public Works Director shall notify the Project Manager, the Consultant, if applicable, and the Contractor in writing of the Public Works Director's decision within twenty-one (21) calendar days from the date of the submission of the question, claim, difficulty or dispute, unless the Public Works Director requires additional time to gather information or allow the parties to provide additional information. The Parties may agree to a proposed resolution at any time without the involvement and determination of the Consultant.
- 18.1.1 In the event the determination of a dispute by the Public Works Director under this Article is unacceptable to the Contractor, the Contractor must notify the Public Works Director in writing within ten (10) days after receipt of the determination. The notice must state the basis of the objection and the proposed resolution. Final resolution of such dispute shall be made by the City's City Manager ("City Manager"). The City Manager's decision shall be final and binding on the Parties.
- 18.1.2 Prior to any litigation being commenced for any disputes which remain unresolved after sixty (60) days following final completion of the Work, the Parties shall submit all unresolved disputes to mediation before a mediator certified as such by the Florida Supreme Court and agreed upon by the Parties. Should any questions, claims, difficulties, or disputes not be resolved

in mediation, the Parties retain all their legal rights and remedies provided under the laws of the State of Florida. In the event the Contractor fails to comply with the requirements of this Article, then the Contractor specifically waives all of its rights provided for in this Agreement, including its rights and remedies under the laws of the State of Florida.

- 18.1.3 All non-technical administrative disputes (such as billing and payment) shall be determined by the Contract Administrator.
- 18.1.4 During the pendency of any dispute and after a determination thereof, the Contractor and the Contract Administrator shall act in good faith to mitigate any potential damages including utilization of construction schedule changes and alternate means of construction. During the pendency of any dispute arising under this Agreement, other than termination of this Agreement, the Contractor shall carry on the Work and adhere to the progress schedule. The Work shall not be delayed or postponed pending resolution of any disputes or disagreements.

ARTICLE 19 – NOTICES

- 19.1 All notices required by any of the Contract Documents shall be in writing and shall be deemed delivered upon mailing by certified mail, return receipt requested to the following:

To the City:

City Manager
City of Fort Lauderdale
100 North Andrews Avenue
Fort Lauderdale, Florida 33301-1016

with a copy to the

Project Manager
Project No. 12087 Re-Bid
City of Fort Lauderdale
100 North Andrews Avenue, 4th Floor
Fort Lauderdale, Florida 33301-1016

and a copy to the

City Attorney
City of Fort Lauderdale
100 North Andrews Avenue
Fort Lauderdale, Florida 33301-1016

To the Contractor:

ARTICLE 20 – LIMITATION OF LIABILITY

- 20.1 The City desires to enter into this Agreement only if in so doing the City can place a limit on the City's liability for any cause of action arising out of this Agreement, so that the City's liability for any breach never exceeds the sum of \$1,000. For other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Contractor expresses its willingness to enter into this Agreement with the knowledge that the Contractor's recovery from the City to any action or claim arising from the Agreement is limited to a maximum amount of \$1,000, which amount shall be reduced by the amount actually paid by the City to the Contractor pursuant to this Agreement, for any action or claim arising out of this Agreement. Nothing contained in this paragraph or elsewhere in this Agreement is in any way intended either to be a waiver of the limitation placed upon the City's liability as set forth in Section 768.28, Florida Statutes (2022), as may be amended or revised, or to extend the City's liability beyond the limits established in said Section 768.28, Florida Statutes (2022), as may be amended or revised; and no claim or award against the City shall include attorney's fees, investigative costs, expert fees, suit costs or pre-judgment interest.
- 20.2 No Extended Damages: For other and additional good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Contractor covenants and agrees that in the event of any delay of construction, or for any other reason or allegation or claim, and notwithstanding the reason for the delay, reason, claim, or allegation, or who caused them or the construction delay or whether they were caused by the City, or by Broward County, Florida, pursuant to Section 5.5 of the Interlocal Agreement between Broward County and City of Fort Lauderdale for Surtax-Funded Municipal Transportation Project: Demolition and Reconstruction of South Ocean Drive Bridge (P12087), that there will be no entitlement to Contractor to or for any direct or indirect financial damages or losses for extended corporate overhead impact, extended project overhead impacts, project support services, mobilization or demobilization or by whatever other label or legal concept or theory and types of names or labels or basis such claims may have, or any business damages or losses of whatever type or nature, and Contractor hereby waives any right to make any such claim or claims.

ARTICLE 21 – GOVERNING LAW; WAIVER OF JURY TRIAL

- 21.1 The Agreement shall be interpreted and construed in accordance with, and governed by, the laws of the state of Florida. The Parties agree that the exclusive venue for any lawsuit arising from, related to, or in connection with this Agreement shall be in the state courts of the Seventeenth Judicial Circuit in and for Broward County, Florida. If any claims arising from, related to, or in connection with this Agreement must be litigated in federal court, the Parties agree that the exclusive venue for any such lawsuit shall be in the United States District Court or United States Bankruptcy Court for the Southern District of Florida. **BY ENTERING INTO THIS AGREEMENT, THE PARTIES HEREBY EXPRESSLY WAIVE ANY AND ALL RIGHTS EITHER PARTY MIGHT HAVE TO A TRIAL BY JURY OF ANY ISSUES RELATED TO THIS AGREEMENT. IF A PARTY FAILS TO WITHDRAW A REQUEST FOR A JURY TRIAL IN A LAWSUIT ARISING OUT OF THIS AGREEMENT AFTER WRITTEN NOTICE BY THE OTHER PARTY OF VIOLATION OF THIS SECTION, THE PARTY MAKING THE REQUEST FOR JURY TRIAL SHALL BE LIABLE FOR THE REASONABLE ATTORNEYS' FEES AND**

COSTS OF THE OTHER PARTY IN CONTESTING THE REQUEST FOR JURY TRIAL, AND SUCH AMOUNTS SHALL BE AWARDED BY THE COURT IN ADJUDICATING THE MOTION.

ARTICLE 22 – MISCELLANEOUS

- 22.1 The duties and obligations imposed by this Agreement and the rights and remedies available to the Parties and, in particular but without limitation, the warranties, guaranties and obligations imposed upon the Contractor and all of the rights and remedies available to the City, are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by laws or regulations, by special warranty or guarantee or by other provisions of the Contract Documents, and the provisions of this Paragraph will be as effective as if repeated specifically in the Contract Documents, and the provisions of this Paragraph will survive final payment and termination or completion of this Agreement.
- 22.2 The Contractor shall not assign or transfer this Agreement or its rights, title or interests. The obligations undertaken by the Contractor pursuant to this Agreement shall not be delegated or assigned to any other person or firm. Violation of the terms of this Paragraph shall constitute a material breach of Agreement by the Contractor and the City any, at its discretion, cancel this Agreement and all rights, title and interest of the Contractor which shall immediately cease and terminate.
- 22.3 The Contractor and its employees, volunteers and agents shall be and remain as independent contractor and not agents or employees of the City with respect to all of the acts and services performed by and under the terms of this Agreement. This Agreement shall not in any way be constructed to create a partnership, association or any other kind of joint undertaking or venture between the Parties.
- 22.4 The City reserves the right to audit the records of the Contractor relating in any way to the Work to be performed pursuant to this Agreement at any time during the performance and term of this Agreement and for a period of three (3) years after completion and acceptance by the City. If required by the City, the Contractor agrees to submit to an audit by an independent certified public accountant selected by the City.

The Contractor shall allow the City to inspect, examine and review the records of the Contractor at any and all times during normal business hours during the term of this Agreement.

The Contractor shall include in its contracts with all of its sub-contractors that Broward County, a political subdivision of the State of Florida, ("County"), shall have the right to audit the books, records, and accounts of the sub-contractor that are related to this Agreement (the "Contract Records"). Audits, reviews, monitoring, inspections, and investigations conducted pursuant to this Agreement may include, but are not limited to, on-site visits by County staff, interviews of staff of any of the sub-contractors, review of performance and financial reports, determining and monitoring appropriate corrective action, and issuing management letters on deficiencies or weaknesses identified. The Contractor shall by contract require all of its sub-contractors to fully comply and cooperate with any auditing and monitoring activities deemed appropriate by County.

The Contractor shall by contract require all its sub-contractors to keep such books, records, and accounts as may be necessary in order to record complete and correct entries related to this Agreement and performance under this Agreement. All such books, records, and accounts shall be kept in written form, or in a form capable of conversion into written form within a reasonable time, and upon request by the County's Contract Administrator to do so. The Contractor shall by contract require all of its sub-contractors to make same available in written form at no cost to County.

Contract Records include any and all information, materials, and data of every kind and character, including without limitation, records, books, papers, documents, subscriptions, recordings, agreements, purchase orders, leases, contracts, commitments, arrangements, notes, daily diaries, drawings, receipts, vouchers, and memoranda, and any and all other documents that pertain to rights, duties, obligations, or performance relating to the project that is the subject of this Agreement ("Project"). Contract Records include hard copy and electronic records, written policies and procedures, time sheets, payroll records and registers, canceled payroll checks, estimating work sheets, correspondence, invoices and related payment documentation, general ledgers, insurance rebates and dividends, and any other records pertaining to rights, duties, obligations, or performance relating to the Project of any of the Contractor's sub-contractors.

The Contractor shall by contract require all of its sub-contractors to preserve and make available, at reasonable times within Broward County, Florida, for examination and audit, all financial records, supporting documents, statistical records, and any other documents pertinent to the Project or this Agreement until the later of five (5) years after expiration or termination of this Agreement, resolution of any audit findings, or as otherwise required by law. Any audit or inspection pursuant to this section may be performed by any County representative (including any outside representative engaged by County) or the Transportation Surtax Oversight Board. The Project and all expenditures relating to the Project shall be subject to the Oversight Board's review, critique, and analysis for the duration of the Project.

Any incomplete or incorrect entry in such books, records, and accounts shall be a basis for County's disallowance and recovery of any payment made or based upon such entry. If an audit inspection or examination in accordance with this provision discloses overpricing or overcharges to Municipality (of any nature) by the Contractor or the Contractor's sub-contractors in excess of five percent (5%) of the total contract billings reviewed, the reasonable actual cost of any audit conducted by or on behalf of Municipality, Broward County, or the Independent Transportation Surtax Oversight Board shall be reimbursed by Contractor to the Municipality or Broward County, as applicable, along with any required adjustments for the overpricing or overcharges. Any adjustments or payments that must be made as a result of any such audit or inspection of the Contractor's invoices or records shall be made within a reasonable amount of time (not to exceed 30 days) after presentation of the audit findings to Contractor.

- 22.5 The remedies expressly provided in this Agreement to the City shall not be deemed to be exclusive but shall be cumulative and in addition to all other remedies in favor of the City now or later existing at law or in equity.

- 22.6 Should any part, term or provisions of this Agreement be decided by a court of competent jurisdiction to be invalid, illegal or in conflict with any state or federal law, the validity of the remaining portion or provision shall not be affected.
- 22.7 Prohibition Against Contracting With Scrutinized Companies: Subject to *Odebrecht Construction, Inc., v. Prasad*, 876 F.Supp.2d 1305 (S.D. Fla. 2012), *affirmed*, *Odebrecht Construction, Inc., v. Secretary, Florida Department of Transportation*, 715 F.3d 1268 (11th Cir. 2013), with regard to the “Cuba Amendment,” the Contractor certifies that it is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2022), as may be amended or revised, and that it is not engaged in a boycott of Israel, and that it does not have business operations in Cuba or Syria, as provided in Section 287.135, Florida Statutes (2022), as may be amended or revised. The City may terminate this Agreement at the City’s option if the Contractor is found to have submitted a false certification as provided under subsection (5) of section 287.135, Florida Statutes (2022), as may be amended or revised, or been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2022), as may be amended or revised, or is engaged in a boycott of Israel or has been engaged in business operations in Cuba or Syria, as defined in Section 287.135, Florida Statutes (2022), as may be amended or revised.
- 22.8 Public Entity Crimes: In accordance with the Public Crimes Act, Section 287.133, Florida Statutes (2022), as may be amended or revised, a person or affiliate who is a contractor, consultant or other provider, who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to the City, may not submit a bid on a contract with the City for the construction or repair of a public building or public work, may not submit bids on leases of real property to the City, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with the City, and may not transact any business with the City in excess of the threshold amount provided in Section 287.017, Florida Statutes (2022), as may be amended or revised, for category two purchases for a period of thirty-six (36) months from the date of being placed on the convicted vendor list. Violation of this section by Contractor shall result in cancellation of the City purchase and may result in Contractor debarment.
- 22.9 Attorney Fees: If City or Contractor incurs any expense in enforcing the terms of this Agreement through litigation, the prevailing Party in that litigation shall be reimbursed for all such costs and expenses, including but not limited to court costs, and reasonable attorney fees incurred during litigation.

22.10 Public Records

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES (2022), TO THE CONTRACTOR’S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

Telephone Number: (954) 828-5002

**Mailing Address: City Clerk's Office
100 N. Andrews Avenue
Fort Lauderdale, Florida 33301-1016**

E-mail: prcontract@fortlauderdale.gov

Contractor shall comply with public records laws, and Contractor shall:

1. Keep and maintain public records that ordinarily and necessarily would be required by the City in order to perform the service.
2. Upon request from the City's custodian of public records, provide the City with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes (2022), as may be amended or revised, or as otherwise provided by law.
3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of this Contract if the Contractor does not transfer the records to the City.
4. Upon completion of the Contract, transfer, at no cost, to the City all public records in possession of the Contractor or keep and maintain public records required by the City to perform the service. If the Contractor transfers all public records to the City upon completion of this Contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of this Contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records, in a format that is compatible with the information technology systems of the City.

22.11 Non-Discrimination: The Contractor shall not discriminate in the performance of this Agreement or against its employees based on the employee's race, color, religion, sex, gender, gender identity, gender expression, marital status, sexual orientation, national origin, age, disability, pregnancy, political affiliation, or any other protected classification as defined by applicable law.

1. The Contractor certifies and represents that the Contractor offers the same health benefits to the domestic partners of its employees as are offered its employees' spouses or offers its employees the cash equivalent of such health benefits because it is unable to provide health benefits to its employees' domestic partners, and that the Contractor will comply with Section 2-187, Code of Ordinances of the City of Fort Lauderdale, Florida, (2022), as may be amended or revised, ("Section 2-187"), during the entire term of this Agreement.

2. The failure of the Contractor to comply with Section 2-187 shall be deemed to be a material breach of this Agreement, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.
3. The City may terminate this Agreement if the Contractor fails to comply with Section 2-187.
4. The City may retain all monies due or to become due until the Contractor complies with Section 2-187.
5. The Contractor may be subject to debarment or suspension proceedings. Such proceedings will be consistent with the procedures in section 2-183 of the Code of Ordinances of the City of Fort Lauderdale, Florida.

22.12 E-Verify: As a condition precedent to the effectiveness of this Agreement, pursuant to Section 448.095, Florida Statutes (2022), as may be amended or revised, the Contractor and its subcontractors shall register with and use the E-Verify system to electronically verify the employment eligibility of newly hired employees.

1. The Contractor shall require each of its subcontractors, if any, to provide the Contractor with an affidavit stating that the subcontractor does not employ, contract with, or subcontract with an unauthorized alien. The Contractor shall maintain a copy of the subcontractor's affidavit for the duration of this Agreement and in accordance with the public records requirements of this Agreement.
2. The City, the Contractor, or any subcontractor who has a good faith belief that a person or entity with which it is contracting has knowingly violated Subsection 448.09(1), Florida Statutes (2022), as may be amended or revised, shall terminate the contract with the person or entity.
3. The City, upon good faith belief that a subcontractor knowingly violated the provisions of Subsection 448.095(2), Florida Statutes (2022), as may be amended or revised, but that the Contractor otherwise complied with Subsection 448.095(2), as may be amended or revised, shall promptly notify Contractor and order the Contractor to immediately terminate the contract with the subcontractor, and the Contractor shall comply with such order.
4. A contract terminated under Subparagraph 448.095(2)(c)1. or 2., Florida Statutes (2022), as may be amended or revised, is not a breach of contract and may not be considered as such. If the City terminates this contract under Paragraph 448.095(2)(c), Florida Statutes (2022), as may be amended or revised, the Contractor may not be awarded a public contract for at least one year after the date on which the contract was terminated. The Contractor is liable for any additional costs incurred by the City as a result of termination of this Agreement.
5. Contractor shall include in each of its subcontracts, if any, the requirements set forth in this Section 22.12, including this subparagraph, requiring any and all subcontractors, as defined in Subsection 448.095(1)(j), Florida Statutes (2022), as may be amended or revised, to include all of the requirements of this Section 22.12 in their subcontracts. Contractor shall be responsible for compliance by any and all subcontractors, as defined in Subsection 448.095(1)(j), Florida

Statutes (2022), as may be amended or revised, with the requirements of Section 448.095, Florida Statutes (2022), as may be amended or revised.

SAMPLE CONSTRUCTION AGREEMENT

IN WITNESS WHEREOF, the Parties execute this Construction Agreement as follows:

CITY OF FORT LAUDERDALE

By: _____
GREG CHAVARRIA
City Manager

Date: _____

Approved as to Form:

Assistant City Attorney

SAMPLE CONSTRUCTION AGREEMENT

WITNESSES:

NAME OF CONTRACTOR

By: _____

Print Name

Print Name: _____

Title: _____

Print Name

(SEAL)

STATE OF _____:

COUNTY OF _____:

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization, this _____ day of _____, 2023, by _____, (NAME OF AUTHORIZED OFFICER) as _____ (TITLE OF AUTHORIZED OFFICER), for _____ (NAME OF COMPANY), a Florida _____ (TYPE OF COMPANY).

[SEAL]

(Signature of Notary Public - State of _____)

(Print, Type, or Stamp Commissioned Name of Notary Public)

Personally Known _____ OR Produced Identification _____

Type of Identification Produced: _____



**TRANSPORTATION SURTAX ADDENDUM FOR MUNICIPALITY CONSTRUCTION CONTRACTS
(SURTAX PROJECT# 12087 RE-BID Bid/Event # 94)**

This Transportation Surtax Addendum ("Addendum") is made and entered by and between the City of Fort Lauderdale, a political subdivision of the State of Florida ("Municipality"), and Interstate Construction, LLC, a Florida limited liability company] ("Contractor") (each a "Party" and collectively referred to as the "Parties").

GENERAL CONTRACT TERMS

A. The solicitation, purchase order, or contract between Contractor and Municipality for Surtax Project# 12087 (all of which shall be referred to in this Addendum as "the Contract" or "this Contract") is funded in whole or in part by the transportation surtax levied pursuant to Section 31½-71, et seq., of the Broward County Code of Ordinances (the "County Surtax Ordinance"). The Construction Contract is therefore subject to the terms and conditions of County Surtax Ordinance, Section 212.055(1) of the Florida Statutes, other laws and regulations governing procurement activities, and the terms and conditions of the interlocal funding agreement between Broward County, a political subdivision of the State of Florida ("Broward County") and Municipality to provide for funding of the Project (the "Funding Agreement").

B. The purpose of this Addendum is to incorporate the terms and conditions required by the County Surtax Ordinance, Section 212.055(1), Florida Statutes, and the Funding Agreement, into the Parties' Construction Contract and all other Contract Documents. All contract provisions required by the County Surtax Ordinance, Section 212.055(1) of the Florida Statutes, and the Funding Agreement, as amended, are incorporated in this Addendum by reference, whether or not expressly set forth in the provisions below.

C. Contractor agrees to include the terms in this Addendum in each subcontract financed in whole or in part with transportation surtax funds levied pursuant to the County Surtax Ordinance.

D. In the event of any conflict between the terms contained in this Addendum and those contained in any of the Contract Documents, the terms of this Addendum shall prevail. Unless otherwise expressly provided by Florida law, any terms required by the County Surtax Ordinance and Section 212.055(1) of the Florida Statutes, as amended, shall control in the event of a conflict with any provisions contained in this Addendum.

E. The Parties agree to perform their respective obligations under the Contract Documents in accordance with the terms provided in this Addendum.

ARTICLE 1. DEFINITIONS

Whenever the following terms appear in this Addendum, the intent and meaning shall be interpreted as follows:

- 1.1. **Applicable Law** means all applicable laws, codes, advisory circulars, rules, regulations, or ordinances of any federal, state, county, municipal, or other governmental entity, including as may be amended from time to time.
- 1.2. **Bidder** means an entity or individual submitting a bid for this Project, acting directly or through a duly authorized representative.
- 1.3. **Board** means the governing body of Municipality, its successors and assigns.
- 1.4. **Change Order** means a written document ordering a change in the Contract Price or Contract Time or a material change in the Work.
- 1.5. **Consultant** means the architect or engineer who has contracted with Municipality or who is an employee of Municipality, and provides professional services for this Project, as determined by the Contract Administrator.
- 1.6. **Contract Administrator** means the Municipality's Director of Public Works or Assistant Director of Public Works, or such other person designated by the Municipality's Director of Public Works in writing.
- 1.7. **Contract Documents** means the official documents setting forth bidding information, requirements, and contractual obligations for the Project and includes the Construction Contract for the Project, any contract supplement general conditions, and supplemental general conditions, the Scope of Work, invitation to bid, amendments and addenda, standard instructions for vendors, special instructions for vendors, Plans, Drawings, exhibits, general requirements, technical specifications, bid forms, record of award by the Board, bonds, notice of award, Notice(s) to Proceed, supplements, representations and certifications, certificates, project forms, closeout forms, purchase order(s), Change Order(s), Field Order(s), special provisions, BIM and electronic media submittal requirements, documents incorporated into the Construction Contract by reference and/or as an exhibit, and any additional documents required by Broward County or Municipality, or for the Project.
- 1.8. **Contract Price** means the amount established in the bid submittal and award by the Board, as may be amended by Change Order.
- 1.9. **Contract Time** means the time between commencement and completion of the Work, including any milestone dates thereof, established in Article 3 of this Addendum, as may be amended by Change Order.

1.10. **County Business Enterprise** or **CBE** means a small business certified as meeting the applicable requirements of the Broward County Business Opportunity Act of 2012, Section 1-81, Broward County Code of Ordinances.

1.11. **Field Order** means a written order that orders minor changes in the Work, but which does not involve a change in the Contract Price or Contract Time.

1.12. **Final Completion** means the date certified by Consultant in the Final Certificate of Payment upon which all conditions and requirements of any permits and regulatory agencies have been satisfied; any documents required by the Contract Documents have been received by Consultant; any other documents required to be provided by Contractor have been received by Consultant; and to the best of Consultant's knowledge, information and belief, the Work defined herein has been fully completed in accordance with the terms and conditions of the Contract Documents.

1.13. **Materials** means materials incorporated in this Project or used or consumed in the performance of the Work.

1.14. **Municipality Manager** means the official appointed by the Municipality who directs the administration of the Municipality.

1.15. **Notice(s) to Proceed** means a written notice to Contractor authorizing the commencement of the activities identified in the notice or as described in the Contract Documents.

1.16. **OESBD** means Broward County's Office of Economic and Small Business Development.

1.17. **Plans or Drawings** means the official graphic representations of this Project that are a part of the Contract Documents.

1.18. **Purchasing Director** means Municipality's Chief Procurement Officer or designee authorized to execute Work Authorizations.

1.19. **Project** means the construction project described in the Contract Documents, including the Work described therein.

1.20. **Project Initiation Date** means the date upon which the Contract Time commences.

1.21. **Scope of Work** means the labor, materials, equipment, services, and incidentals necessary to complete the Project and perform the Work as provided in the Contract Documents.

1.22. **Small Business Enterprise** or **SBE** means an entity certified as meeting the applicable requirements of the Broward County Business Opportunity Act of 2012, Section 1-81, Broward County Code of Ordinances.

1.23. **Subcontractor** means a person, firm or corporation having a direct contract with Contractor, including one who furnishes material worked to a special design according to the Contract Documents, but does not include one who merely furnishes Materials not so worked.

1.24. **Substantial Completion** means that date, as certified in writing by Consultant and as finally determined by Contract Administrator in its sole discretion, on which the Work, or a portion thereof, is at a level of completion in substantial compliance with the Contract Documents such that all conditions of permits and regulatory agencies have been satisfied and Municipality or its designee can enjoy use or occupancy and can use or operate it in all respects for its intended purpose. A Certificate of Occupancy (or a Temporary Certificate of Occupancy (TCO) or other alternate municipal/county authorization for limited or conditional occupancy acceptable to the Contract Administrator) must be issued for Substantial Completion to be achieved; however, the issuance of a Certificate of Occupancy will not, by itself, constitute the achievement or date of Substantial Completion.

1.25. **Surety** means the surety company or individual that is bound by the performance bond and payment bond with and for Contractor who is primarily liable for satisfactory performance of the Work, and which surety company or individual is responsible for Contractor's satisfactory performance of the Work under this Contract and for the payment of all debts and other obligations pertaining thereto in accordance with Section 255.05, Florida Statutes.

1.26. **Work** means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all labor, materials, equipment, and services provided or to be provided by Contractor to fulfill Contractor's obligations. The Work may constitute the whole or a part of the Project.

ARTICLE 2. EXHIBITS

- Exhibit A - List of CBE/SBE Certified Firms**
- Exhibit B - Forms 1-13**
- Exhibit C - Letter of Intent (CBE/SBE)**
 - **Scrutinized Companies List Certification**
 - **Statement of CBE/SBE Assurance**

ARTICLE 3. CONTRACT TIME

3.1. Contractor shall be instructed to commence the Work by written instruction in the form of a Purchase Order issued by Municipality's Purchasing Director and two or more Notices to Proceed issued by the Contract Administrator. The first Notice to Proceed and Purchase Order will not be issued until Contractor's submission to Municipality of all required documents and after execution of this Contract by both Parties. Preliminary Work, including submission of a project schedule, schedule of values, submittals, submittal schedule, and other documents required for permitting, and performance of Work that does not require permits, shall commence within ten (10) days after the date of the first Notice to Proceed. Contractor shall have ten (10)

days after receipt of signed and sealed contract Drawings from Consultant to apply for construction permits to the applicable permitting authority. Issuance of all permits by the permitting authority shall be a condition precedent to the issuance of a second Notice to Proceed for all additional Work. Except for the reimbursement of permit application fees, impact fees, and performance and payment bond premiums as may be provided in the Contract Documents, Contractor shall not be entitled to compensation of any kind during the permitting process. The Work to be performed pursuant to the second Notice to Proceed shall commence within ten (10) days after the Project Initiation Date specified in the second Notice to Proceed.

3.2. Time is of the essence throughout this Contract. Contractor must obtain Substantial Completion of the Work within **three hundred (300)** days after the Project Initiation Date specified in the Second Notice to Proceed, and Final Completion within **sixty (60)** days after the date of Substantial Completion.

3.3. Upon failure of Contractor to obtain Substantial Completion within the deadline stated in Section 3.2, as extended by any approved time extensions, Contractor shall pay to Municipality the sum of **two thousand five hundred Dollars (\$2,500)** for each day after the deadline for Substantial Completion, as extended by any approved time extensions, until Substantial Completion is obtained. After Substantial Completion, should Contractor fail to complete the remaining Work within the deadline stated in Section 3.2, as extended by approved time extensions thereof, Contractor shall pay to Municipality the sum of **two thousand five hundred Dollars (\$2,500)** for each day after the deadline for Final Completion, as extended by any approved extensions, until Final Completion is obtained. These amounts are not penalties but are liquidated damages to Municipality for its inability to obtain full beneficial occupancy and/or use of the Project. Liquidated damages are hereby fixed and agreed upon between the Parties based on (1) a mutual recognition of the impossibility of precisely ascertaining the amount of damages that will be sustained by Municipality as a consequence of Contractor's failure to timely obtain Substantial Completion; and (2) both Parties' desire to obviate any question of dispute concerning the amount of said damages and the cost and effect of the failure of Contractor to complete this Contract on time. These liquidated damages shall apply separately to each portion of the Project for which a deadline for completion is given.

3.4. Municipality may deduct liquidated damages from monies due to Contractor for the Work under this Contract or as much thereof as Municipality may, in its sole discretion, deem just and reasonable.

3.5. Contractor shall reimburse Municipality, in addition to liquidated damages, for all costs incurred by Consultant in administering the construction of the Project beyond the completion dates specified above, as extended by any approved time extensions. Consultant construction administration costs shall be in the amounts set forth in the contract between Municipality and Consultant, a copy of which is available upon request of the Contract Administrator. All such costs shall be deducted from the monies due Contractor for performance of Work under this Contract by means of unilateral credit Change Orders issued by Municipality as costs are incurred by Consultant and agreed to by Municipality.

ARTICLE 4. PROGRESS PAYMENTS

4.1. Contractor may make an application for payment ("Application for Payment"), at intervals of not more than once a month, for Work completed during the Project. Contractor shall, where the Project involves CBE or SBE Subcontractors, make Application for Payment, at monthly intervals, for Work completed by such Subcontractors during the Project. Contractor's applications shall show a complete breakdown of the Project components, the quantities completed, and the amount of payment sought, together with such supporting evidence as may be required by Consultant or Contract Administrator. Contractor shall submit with each Application for Payment: an updated progress schedule acceptable to Consultant as required by the Contract Documents; a Certification of Payments to Subcontractors Form (Form 9); a statement indicating the cumulative amount of CBE or SBE participation to date; and a release of claims relative to the Work that was the subject of previous applications or consent of surety relative to the Work that is the subject of the Application for Payment. If Contractor has not made payment to a Subcontractor, the Certification of Payments to Subcontractors Form shall be accompanied by a copy of the notification sent to each Subcontractor (listed in Item 2 of the Form) to whom payment has not been made, explaining the good cause why payment was not made. When applicable, an Application for Payment shall be accompanied by a completed Statement of Wage Compliance Form (Form 8A or 8B). Each Application for Payment shall be submitted in triplicate to Consultant for approval as follows:

**Connie Hayman
Project Manager
City of Fort Lauderdale
Public Works Engineering Department
100 North Andrews Avenue
Fort Lauderdale, FL, 33301**

All Applications for Payment shall be stamped as received on the date on which they are delivered in the manner specified above. Payments of Applications for Payment shall be subject to approval as specified hereinbefore, and if approved shall be due twenty-five (25) business days after the date on which the Application for Payment is stamped received. At the end of the twenty-five (25) business days, Contractor may send the Contract Administrator an overdue notice. If the Application for Payment is not rejected within four (4) business days after delivery of the overdue notice, the Application for Payment shall be deemed accepted, except for any portion of the Application for Payment that Municipality determines to be fraudulent or misleading. If the Application for Payment does not meet the requirements of this Contract, Municipality shall reject the Application for Payment within twenty (20) business days after the date stamped received and said rejection shall specify the deficiency and the action necessary to cure that deficiency. If Contractor submits a request that corrects the deficiency, the corrected Application for Payment must be paid or rejected within ten (10) business days after the corrected Application for Payment is stamped as received. Any dispute between Municipality and Contractor shall be resolved pursuant to the dispute resolution procedure set forth in the Contract Documents.

4.2. Municipality may withhold retainage on each progress payment as set forth in Section 255.078, Florida Statutes, as may be amended during this Contract. Any reduction in retainage below the maximum amount set forth in Section 255.078, Florida Statutes, shall be at the sole discretion of the Contract Administrator, as may be recommended by Consultant. Any interest earned on retainage shall accrue to the benefit of Municipality.

4.3. Notwithstanding any provision of this Contract to the contrary, Municipality may withhold payment, in whole or in part, in accordance with Applicable Law, or to such extent as may be necessary to protect itself from loss on account of:

- 4.3.1. Inadequate or defective Work not remedied.
- 4.3.2. Claims filed or reasonable evidence indicating probable filing of claims by other parties against Contractor or Municipality relating to Contractor's performance.
- 4.3.3. Failure of Contractor to make payments properly to Subcontractors or for material or labor.
- 4.3.4. Damage to another contractor not remedied.
- 4.3.5. Liquidated damages and costs incurred by Consultant for extended construction administration.
- 4.3.6. Failure of Contractor to provide documents required by the Contract Documents.

When the above grounds are removed or resolved to the satisfaction of the Contract Administrator, any withheld payment shall be made to the extent otherwise due.

ARTICLE 5. ACCEPTANCE AND FINAL PAYMENT

5.1. Upon receipt of written notice from Contractor that the Work is ready for final inspection and acceptance, Consultant shall conduct an inspection within ten (10) days. If Consultant and Contract Administrator find that the Work is acceptable; that the requisite documents have been submitted; that the requirements of the Contract Documents are fully satisfied; and that all conditions of the permits and regulatory agencies have been met, a Final Certificate of Payment (Form 11) shall be issued by Consultant, under its signature, stating that the requirements of the Contract Documents have been performed and that the Work is ready for acceptance under the terms and conditions of the Contract Documents.

5.2. Before issuance of the Final Certificate for Payment, Contractor shall deliver to Consultant the following Final Payment Package: a complete release of all claims arising out of this Contract, or receipts in full in lieu thereof; an affidavit certifying that all suppliers and Subcontractors have been paid in full and that all other indebtedness and financial obligations connected with the Work have been paid, or, in the alternative, a consent of the Surety to final payment on Contractor's behalf; the final corrected as-built Drawings; and the final bill of Materials, if required, and the final Application for Payment. This Final payment package must include the

certification document titled Final List of Non-Certified Subcontractors and Suppliers (Form 13), which must be signed and notarized by Contractor. A list of all noncertified Subcontractors and suppliers used must be attached to this certified document.

5.3. If, after Substantial Completion, Final Completion is materially delayed through no fault of Contractor, and Consultant so certifies, Municipality shall, upon certification of Consultant, and without terminating this Contract, make payment of the balance due for any portion of the Work fully completed and accepted. Such payment shall be made under the terms and conditions governing final payment, but it shall not constitute a waiver of claims.

5.4. Final payment shall be made only after the Board or Municipality's Purchasing Director, as applicable, has reviewed a written evaluation of the performance of Contractor prepared by the Contract Administrator and has approved the final payment. The acceptance of final payment shall constitute a waiver of all claims by Contractor, except those previously made in strict accordance with the provisions of the General Conditions and identified by Contractor as unsettled at the time of the application for final payment.

ARTICLE 6. PERFORMANCE AND PAYMENT BOND

6.1. Within ten (10) days after being notified of the award, Contractor shall furnish a Performance Bond and a Payment Bond containing all the provisions of the Performance Bond (Form 1) and Payment Bond (Form 2). Each Bond shall be in the amount of one hundred percent (100%) of the Contract Price guaranteeing to Municipality the completion and performance of the Work covered in such Contract as well as full payment of all suppliers, laborers, and Subcontractors employed pursuant to this Project. Each Bond shall be with a surety company that is qualified pursuant to Article 7. Each Bond must name "Broward County" as an additional obligee.

6.2. Each Bond shall continue in effect for one (1) year after Final Completion and acceptance of the Work with liability equal to one hundred percent (100%) of the Contract Price, or an additional bond provided to ensure that Contractor will, upon notification by Municipality, correct any defective or faulty Work or Materials that appear within one (1) year after Final Completion of this Contract.

6.3. Pursuant to the requirements of Section 255.05, Florida Statutes, Contractor shall ensure that the bond(s) referenced above shall be recorded in the Official Records of Broward County and provide Municipality with evidence of such recording.

6.4. In lieu of a Performance Bond and a Payment Bond, Contractor may furnish alternate forms of security in the form of cash, money order, certified check, cashier's check, or unconditional letter of credit. Such alternate forms of security shall be subject to the approval of Municipality and for same purpose, and shall be subject to the same conditions as those applicable above, and shall be held by Municipality for one (1) year after completion and acceptance of the Work.

ARTICLE 7. QUALIFICATION OF SURETY

7.1 For all Bid Bonds, Performance Bonds, and Payment Bonds over Five Hundred Thousand Dollars (\$500,000.00):

7.1.1 Each bond must be executed by a surety company of recognized standing, authorized to do business in the State of Florida as surety, having a resident agent in the State of Florida, and having been in business with a record of successful continuous operation for at least five (5) years.

7.1.2 The surety company shall hold a current Certificate of Authority as acceptable surety on federal bonds in accordance with United States Department of Treasury Circular 570, Current Revisions. If the amount of the Bond exceeds the underwriting limitation set forth in the circular, in order to qualify as a proper surety herein, the net retention of the surety company shall not exceed the underwriting limitation in the circular, and the excess risks must be protected by coinsurance, reinsurance, or other methods in accordance with Treasury Circular 297, Revised (31 C.F.R. §§ 223.10, 223.11). Further, the surety company shall provide Municipality with evidence satisfactory to Municipality that such excess risk has been protected in an acceptable manner.

7.1.3 A surety company that is rejected by Municipality may be substituted by the Bidder or proposer with a surety company acceptable to Municipality, but only if the bid amount does not increase.

7.1.4 All bonds shall be written through surety insurers authorized to do business in the State of Florida as surety, with the following qualifications as to management and financial strength according to the latest (1986 or later) edition of Best's Insurance Guide, published by AM Best Company, Oldwick, New Jersey:

Amount of Bond	Policy Holder's Ratings
500,001 to 1,500,000	A III
1,500,001 to 2,500,000	A VI
2,500,001 to 5,000,000	A VII
5,000,001 to 10,000,000	A VIII
Over 10,000,001	A IX

7.2 For projects that do not exceed Five Hundred Thousand Dollars (\$500,000.00), Municipality may accept a Bid Bond, Performance Bond, and Payment Bond from a surety company that has twice the minimum surplus and capital required by the Florida Office of Insurance Regulation at the time the solicitation is issued, if the surety company is otherwise in compliance with the provisions of the Florida Insurance Code, and if the surety company holds a currently valid Certificate of Authority issued by the United States Department of the Treasury under Sections 9304 to 9308 of Title 31 of the United States Code. The Certificate and Affidavit (Form 4) so certifying should be submitted with the Bid Bond, Performance Bond, and Payment Bond.

7.3 More stringent requirements of any grantor agency may be set forth within the Supplemental Conditions. If there are no more stringent requirements, the provisions of this Article 7 shall apply.

ARTICLE 8.

8.1. Municipality's instructions are to be given through Consultant, which instructions Contractor must strictly and promptly follow in every case. Contractor shall keep on the Project a full-time, competent, English-speaking superintendent and any necessary assistants, all of whom must be satisfactory to Consultant. The superintendent shall not be changed except with the written consent of Consultant unless the superintendent proves to be unsatisfactory to Contractor and ceases to be in its employ. The superintendent shall represent Contractor; all instructions given to the superintendent shall be as binding as if given to Contractor and will be confirmed in writing by Consultant upon the written request of Contractor. Contractor shall provide efficient supervision of the Work, using its best skill and attention.

8.2. On a daily basis, Contractor's superintendent shall record, at a minimum, the following information in a bound log: the day; date; weather conditions and how any weather condition affected progress of the Work; time of commencement of Work for the day; the Work being performed; materials, labor, personnel, equipment and Subcontractors at the Project site; visitors to the Project site, including representatives of Municipality, Consultant, or regulatory representatives; any event that caused or contributed a delay to the critical path of the Project; any special or unusual conditions or occurrences encountered; and the time of termination of Work for the day. All information shall be recorded in the daily log in ink, unless otherwise approved by Consultant. The daily log shall be kept on or accessible from the Project site and shall be available at all times for inspection and copying by Municipality and Consultant.

8.3. The Contract Administrator, Contractor, and Consultant shall meet at least every two (2) weeks (or as otherwise determined by the Contract Administrator) during the course of the Work to review and agree upon the Work performed to date and to establish the controlling items of Work for the next two (2) weeks. Consultant shall publish, keep, and distribute minutes and any comments thereto of each such meeting.

8.4. If Contractor, in the course of performing the Work, finds any discrepancy between this Contract and the physical conditions of the locality, or any errors, omissions, or discrepancies in this Contract, it shall be Contractor's duty to immediately inform Consultant, in writing, and Consultant will promptly review same. Any Work done after such discovery, until authorized, will be done at Contractor's sole risk, without entitlement to reimbursement or compensation.

8.5. Contractor shall supervise and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with this Contract. Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction.

ARTICLE 9. PROJECT RECORDS AND RIGHT TO AUDIT

9.1 Audit Rights and Retention of Records. Contractor shall preserve all Contract Records (as defined below) for a minimum period of three (3) years after expiration or termination of this Contract or until resolution of any audit findings, whichever is longer. Contract Records shall, upon reasonable notice, be open to inspection and subject to audit and reproduction during normal business hours. Audits and inspections pursuant to this article may be performed by any representative of Municipality and/or County (including any outside representative engaged by either entity). Municipality and County may conduct audits or inspections at any time during the term of this Contract and for a period of three (3) years after the expiration or termination of this Contract (or longer if required by Applicable Law, Municipality and/or County). County may, without limitation, verify information, payroll distribution, and amounts through interviews, written affirmations, and on-site inspection with Contractor's employees, Subcontractors, vendors, or other labor.

9.2 Municipality and County shall have the right to audit, review, examine, inspect, analyze, and make copies of all Contract Records at a location within Broward County, Florida. Contractor hereby grants Municipality and County the right to conduct such audit or review at Contractor's place of business, if deemed appropriate by Municipality or County, with seventy-two (72) hours' advance notice. Contractor agrees to provide adequate and appropriate workspace for such review. Contractor shall provide Municipality and County with reasonable access to Contractor's facilities, and Municipality and County shall be allowed to interview all current or former employees to discuss matters pertinent to the performance of this Contract.

9.3 Contract Records include any and all information, materials and data of every kind and character, including without limitation, records, books, papers, documents, subscriptions, recordings, agreements, purchase orders, leases, contracts, commitments, arrangements, notes, daily diaries, drawings, receipts, vouchers and memoranda, and any and all other documents that pertain to rights, duties, obligations, or performance under this Contract. Contract Records include hard copy and electronic records, written policies and procedures, time sheets, payroll records and registers, cancelled payroll checks, estimating work sheets, correspondence, invoices and related payment documentation, general ledgers, insurance rebates and dividends, and any other records pertaining to rights, duties, obligations or performance under this Contract, whether by Contractor or Subcontractors, or otherwise necessary to adequately permit evaluation and verification of any or all of the following:

- a) Compliance with Contract
- b) Compliance with Municipality's code of ethics
- c) Compliance with Contract provisions regarding the pricing of Change Orders
- d) Accuracy of Contractor representations regarding the pricing of invoices
- e) Accuracy of Contractor representations related to claims submitted by Contractor including Subcontractors, or any of its other payees.

In addition to the normal documentation Contractor typically furnishes to Municipality, in order to facilitate efficient use of Municipality resources when reviewing or auditing Contractor's

billings and related reimbursable cost records, Contractor agrees to furnish (upon request) the following types of information in the specified computer readable file format(s):

Type of Record	File format
Monthly Job Cost Detail	.pdf and Excel
Detailed Job Cost History to Date	.pdf and Excel
Monthly Labor Distribution detail (if not already separately detailed in the Job Cost Detail)	.pdf and Excel
Total Job to Date Labor Distribution detail (if not already included in the detailed Job Cost History to date)	.pdf and Excel
Employee Timesheets documenting time worked by all individuals who charge reimbursable time to the project	.pdf
Daily Foreman Reports listing names and hours and tasks of personnel who worked on the project	.pdf
Daily Superintendent Reports	.pdf
Detailed Subcontract Status Reports (showing original subcontract value, approved subcontract change orders, subcontractor invoices, payment to Subcontractors, etc.	.pdf and Excel
Copies of Executed Subcontracts with all Subcontractors	.pdf
Copies of all executed Change Orders issued to Subcontractors	.pdf
Copies of all documentation supporting all reimbursable job costs (Subcontractor payment applications, vendor invoices, internal cost charges, etc.)	.pdf

9.4 Any incomplete or incorrect entry in such books, records, and accounts shall be a basis for Municipality's disallowance and recovery of any payment reliant upon such entry.

9.5 If an audit inspection or examination in accordance with this article discloses overpricing or overcharges to Municipality of any nature by Contractor or its Subcontractors in excess of five percent (5%) of the total contract billings reviewed, in addition to making adjustments for the overcharges, Contractor shall pay the actual cost of the audit or, if the actual cost is unreasonably high, the reasonable cost. Any adjustments or payments due as a result of any such audit or inspection shall be made within thirty (30) days after presentation of the audit findings to Contractor.

9.6 Contractor shall, by written contract, require its Subcontractors to agree to the requirements and obligations of this Article 9.

ARTICLE 10. DIFFERING SITE CONDITIONS

If during the course of the Work Contractor encounters (1) subsurface or concealed conditions at the Project site that differ materially from those shown in the Contract Documents and from those ordinarily encountered and generally recognized as inherent in work of the character called

for in this Contract; or (2) unknown physical conditions of the Project site, of an unusual nature, which differ materially from that ordinarily encountered and generally recognized as inherent in work of the character called for in this Contract, then Contractor, without disturbing the conditions and before performing any Work affected by such conditions, shall, within twenty-four (24) hours of their discovery, notify Contract Administrator and Consultant in writing of the existence of the aforesaid conditions. Consultant and Contract Administrator shall, within two (2) business days after receipt of Contractor's written notice, investigate the site conditions identified by Contractor. If, in the sole opinion of Contract Administrator, the conditions do materially so differ and cause an increase or decrease in Contractor's cost of, or the time required for, the performance of any part of the Work, whether or not charged as a result of the conditions, Contract Administrator may recommend an equitable adjustment to the Contract Price, or the Contract Time, or both. If Contract Administrator and Contractor cannot agree on an adjustment in the Contract Price or Contract Time, the adjustment shall be referred to Consultant for determination in accordance with the provisions of the Contract Documents. No request by Contractor for an equitable adjustment to this Contract under this provision shall be allowed unless Contractor has given written notice to Contract Administrator in strict accordance with the provisions of this article. **No request for an equitable adjustment or change to the Contract Price or Contract Time for differing site conditions shall be allowed if made after the date certified by Contract Administrator as the date of Substantial Completion.**

ARTICLE 11. LOCATION AND DAMAGE TO EXISTING FACILITIES

11.1. Utility lines in the Project area have been shown on the Plans. However, Municipality does not represent or warrant that all lines are shown, or that the ones indicated are in their true location. Contractor must identify and locate all underground and overhead utility lines or equipment affecting or affected by the Project. Contractor will not be entitled to any additional payment or extension of time due to discrepancies between actual location of utilities and Plan location of utilities.

11.2. Contractor shall notify each utility company with facilities in the Project site, at least thirty (30) days prior to the start of construction, to arrange for positive underground location, relocation, or support of its utility where that utility may be in conflict with or endangered by the Work. The cost of relocation of water mains or other utilities for the convenience of Contractor shall be paid by Contractor. All charges by utility companies for temporary support of its utilities shall be paid for by Contractor. All costs of permanent utility relocation to avoid conflict shall be the responsibility of the utility company involved. Contractor will not be entitled to any additional payment or extension of time for utility relocations, regardless of reason for relocation.

11.3. Contractor shall schedule the Work in such a manner that the Work is not delayed by the utility providers relocating or supporting their utilities. Contractor shall coordinate its activities with any and all public and private utility providers occupying the right-of-way. Contractor will not be entitled to any additional compensation or extension of time for any delay associated with utility relocation or support.

11.4. Contractor shall protect all overhead, surface, or underground structures and utilities from damage or displacement. Contractor will promptly and completely repair all damage to such structures within a reasonable time. All damaged utilities must be replaced or fully repaired to the satisfaction of the utility owner. All repairs are to be inspected by the utility owner prior to backfilling. Municipality reserves the right to remedy such damage by making such repairs or causing such repairs to be made at the expense of Contractor. Municipality's expense in causing such repairs shall be deducted from Contractor's next Application for Payment.

ARTICLE 12. CHANGE ORDERS

12.1 Changes in the quantity or character of the Work within the scope of the Project that cannot be accomplished by means of Field Orders or Supplemental Instructions, including all changes resulting in changes to the Contract Price or the Contract Time, shall be authorized only by Change Orders approved in advance and issued in accordance with the provisions of the Municipality's Procurement Code, as amended from time to time.

12.2 Contractor shall not start work on any changes requiring an increase in the Contract Price or the Contract Time until a Change Order setting forth the adjustments is approved by Municipality. Upon receipt of a Change Order, Contractor shall promptly proceed with the Work set forth in the Change Order.

12.3 If satisfactory adjustment cannot be reached for any item requiring a change in the Contract Price or Contract Time, and a Change Order has not been issued, Municipality may, at its sole option, either terminate this Contract as it applies to the items in question and make such arrangements as Municipality deems necessary to complete the work associated with the disputed item or submit the matter in dispute to Consultant as set forth in the Contract.

12.4 Under circumstances determined necessary by Municipality, Change Orders may be issued unilaterally by Municipality. During the pendency of the dispute, and upon receipt of a Change Order from Municipality, Contractor shall promptly proceed with the change in the Work involved and advise Consultant and Contract Administrator in writing within seven (7) days after receipt of the Change Order of Contractor's agreement or disagreement with the method, if any, provided in the Change Order for determining the proposed adjustment in the Contract Price or Contract Time.

12.5 On approval of any Contract change increasing the Contract Price, Contractor shall promptly ensure that the performance bond and payment bond are increased so that each reflects the total Contract Price as increased. Contractor will promptly provide Municipality such updated bonds.

ARTICLE 13. VALUE OF CHANGE ORDER WORK

13.1. The value of any Work covered by a Change Order or of any claim for an increase or decrease in the Contract Price shall be determined in one of the following ways:

13.1.1. If the Work involved is covered by unit prices contained in this Contract, by application of unit prices to the quantities of items involved, subject to the provisions of Section 13.7.

13.1.2. By mutual acceptance of a lump sum, which sum Contractor and Municipality acknowledge contains a component for overhead and profit.

13.1.3. On the basis of the "Cost of Work," determined as provided in Sections 13.2 and 13.3, plus a Contractor's fee for overhead and profit as determined in Section 13.4.

13.2. The term "Cost of Work" means the sum of all direct costs necessarily incurred and paid by Contractor (or, if applicable, Subcontractor) in the proper performance of the Work described in the Change Order. Except as otherwise may be agreed to in writing by Municipality, such costs shall be in amounts no higher than those prevailing in the locality of the Project; shall include only the following items; and shall not include any of the costs itemized in Section 13.3.

13.2.1. Payroll costs for employees in the direct employ of Contractor in the performance of the Work described in the Change Order under schedules of job classifications agreed upon by Municipality and Contractor. Payroll costs for employees not employed full time on the Work covered by the Change Order shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to, salaries and wages plus the cost of fringe benefits, which shall include social security contributions, unemployment, excise and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, vacation, and holiday pay application thereto. Such employees shall include superintendents and foremen at the site. The expenses of performing the Work after regular working hours, on Sunday or legal holidays, shall be included in the above to the extent authorized in advance by Municipality.

13.2.2. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and manufacturers' field services required in connection therewith. All cash discounts shall accrue to Contractor unless Municipality deposits funds with Contractor to make payments, in which case the cash discounts shall accrue to Municipality. All trade discounts, rebates and refunds, and all returns from sale of surplus materials and equipment shall accrue to Municipality, and Contractor shall make provisions so that they may be obtained. Rentals of all construction equipment and machinery, and the parts thereof, whether rented by Contractor, in accordance with rental agreements approved by Municipality with the advice of Consultant, and the costs of transportation, loading, unloading, installation, dismantling and removal thereof, all in accordance with the terms of said agreements. Municipality will not be responsible for the cost of the rental of any such equipment, machinery, or parts when the use thereof is no longer necessary for the Work.

13.2.3. If required by Municipality, Contractor shall obtain competitive bids from Subcontractors acceptable to Contractor, and shall deliver such bids to Municipality who will then determine, with the advice of Consultant, which bids will be accepted. If the

subcontract provides that the Subcontractor is to be paid on the basis of Cost of Work plus a fee, the Subcontractor's Cost of Work shall be determined in the same manner as Contractor's Cost of Work. All Subcontractors shall be subject to the other provisions of this Contract insofar as applicable.

13.2.4. Cost of special consultants, including, but not limited to, engineers, architects, testing laboratories, and surveyors employed for services specifically related to the performance of the work described in the Change Order.

13.2.5. Supplemental costs including the following:

13.2.5.1. All materials, supplies, equipment, machinery, appliances, office and temporary facilities, including transportation and maintenance thereof, at the site and hand tools not owned by the workers used in the performance of the Work, less market value of such items used but not consumed, and which items remain the property of Contractor.

13.2.5.2. Sales, use, or similar taxes related to the Work, imposed by any governmental authority, for which Contractor is liable.

13.2.5.3. The cost of utilities, fuel, and sanitary facilities at the site.

13.2.5.4. Cost of premiums for additional bonds and insurance required because of changes in the Work.

13.3. The term "Cost of Work" shall not include any of the following:

13.3.1. Payroll costs and other compensation of Contractor's officers, executives, principals (of partnership and sole proprietorships), general managers, engineers, architects, estimators, schedulers, lawyers, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks and other personnel employed by Contractor whether at the site or in its principal or a branch office, for general administration of the Work that are not specifically included in the agreed-upon schedule of job classifications referred to in subsection 13.2.1, all of which payroll costs and other compensation are to be considered administrative costs covered by Contractor's fee.

13.3.2. Expenses of Contractor's principal and branch offices other than Contractor's field office at the Project site.

13.3.3. Any part of Contractor's capital expenses, including but not limited to interest on Contractor's capital employed for the Work as well as charges against Contractor for delinquent payments.

13.3.4. Cost of premiums for all bonds and for all insurance, whether Contractor is required by this Contract to purchase and maintain the same, except for additional bonds and insurance required because of changes in the Work.

13.3.5. Costs due to the negligence or neglect of Contractor, any Subcontractors, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied, and repairing or remedying any damage to property.

13.3.6. Other overhead or general expense costs of any kind.

13.4. Contractor's fee for overhead and profit shall be determined as follows:

13.4.1. A mutually acceptable fixed fee, or if no fixed fee can be agreed upon;

13.4.2. A fee based on the following percentages of the various portions of the cost of the Work:

13.4.2.1. For costs incurred under subsections 13.2.1 and 13.2.2, Contractor's fee shall not exceed ten percent (10%).

13.4.2.2. For costs incurred under subsection 13.2.3, Contractor's fee shall not exceed seven and one-half percent (7.5%); and if a subcontract is on the basis of cost of the work plus a fee, the maximum allowable to the Subcontractor as a fee for overhead and profit shall not exceed ten percent (10%); and

13.4.2.3. No fee shall be payable on the basis of costs itemized under subsections 13.2.4 and 13.2.5 (except subsection 13.2.5.3) and Section 13.3.

13.5. The amount of credit to Municipality for any change that results in a net decrease in cost will be the amount of the actual net decrease. When both additions and credits are involved in any one change, the combined overhead and profit shall be figured on the basis of the net increase, if any. Contractor shall not be entitled to claim lost profits for any Work not performed.

13.6. Whenever the cost of any Work is to be determined pursuant to Sections 13.2 and 13.3, Contractor will submit in a form acceptable to Consultant an itemized cost breakdown together with the supporting data.

13.7. If the quantity of any item of the Work covered by a unit price is increased or decreased by more than twenty percent (20%) from the quantity of such Work indicated in this Contract, an appropriate Change Order shall be issued to adjust the unit price, if warranted.

13.8. Whenever a change in the Work is to be based on mutual acceptance of a lump sum, whether the amount is an addition, credit or no change-in-cost, Contractor shall submit an initial cost estimate acceptable to Consultant and Contract Administrator.

13.8.1. Such cost estimate shall include a breakdown listing the quantities and unit prices for materials, labor, equipment, and other items of cost.

13.8.2. Whenever a change involves Contractor and one or more Subcontractors and the change is an increase in the Contract Price, overhead and profit percentage for Contractor and each Subcontractor shall be itemized separately.

13.9. Each Change Order must state within the body of the Change Order whether it is based upon unit price, negotiated lump sum, or "Cost of Work."

ARTICLE 14. NO DAMAGES FOR DELAY

No claim for damages or any claim, other than for an extension of time, shall be made or asserted against Municipality by reason of any delays except as provided herein. Contractor shall not be entitled to an increase in the Contract Price or payment or compensation of any kind from Municipality for direct, indirect, consequential, impact or other costs, expenses or damages, including but not limited to costs of acceleration or inefficiency, arising from delay, disruption, interference or hindrance from any cause whatsoever, whether such delay, disruption, interference or hindrance be reasonable or unreasonable, foreseeable or unforeseeable, or avoidable or unavoidable. Contractor shall be entitled only to extensions of the Contract Time as the sole and exclusive remedy for such resulting delay, in accordance with and to the extent specifically provided above; provided, however, that this provision shall not preclude recovery of damages by Contractor for actual delays due solely to fraud, bad faith, or active interference on the part of Municipality or its Consultant.

ARTICLE 15. NOTIFICATION AND CLAIM FOR CHANGE OF CONTRACT TIME OR CONTRACT PRICE

15.1 Any claim for a change in the Contract Time or Contract Price shall be made by written notice by Contractor to the Contract Administrator and to Consultant within five (5) days of the commencement of the event giving rise to the claim or Contractor's knowledge of the claim, and the notice shall state the general nature and cause of the claim. Thereafter, within twenty (20) days after the termination of the event giving rise to the claim or Contractor's knowledge of the claim, Contractor shall submit written notice of the extent of the claim with supporting information and documentation to the Contract Administrator and Consultant (hereinafter "Claim Notice"). The Claim Notice shall include Contractor's written notarized certification that the adjustment claimed is the entire adjustment to which Contractor has reason to believe it is entitled as a result of the occurrence the event giving rise to the claim. If the Contract Administrator and Contractor cannot resolve a claim for changes in the Contract Time or Contract Price within twenty (20) days after receipt of the Claim Notice by the Contract Administrator and Consultant, then Contractor shall submit the claim to Consultant within five (5) days after the date of impasse in accordance with the Contract Documents. **IT IS EXPRESSLY AND SPECIFICALLY AGREED THAT ANY AND ALL CLAIMS FOR CHANGES TO THE CONTRACT TIME OR CONTRACT PRICE SHALL BE WAIVED IF NOT SUBMITTED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THIS SECTION.**

15.2 The Contract Time will be extended in an amount equal to time lost on critical Work items due to delays beyond the control of and through no fault or negligence of Contractor if a claim

for an extension is made in accordance with Section 15.1. Such delays shall include, but not be limited to, acts, omissions, or neglect by any separate contractor employed by Municipality, fires, floods, labor disputes, epidemics, abnormal weather conditions or acts of God.

ARTICLE 16. EXCUSABLE DELAY; COMPENSABLE; NON-COMPENSABLE

16.1 Excusable Delay. Delay that extends the completion of the Work and that is caused by circumstances beyond the control of Contractor or its Subcontractors, suppliers, or vendors are Excusable Delay. Contractor is entitled to a time extension of the Contract Time for each day the Work is delayed due to Excusable Delay. Contractor shall document its claim for any time extension as provided in Article 15 hereof. Failure of Contractor to comply with Article 15 hereof as to any particular event of delay shall be deemed conclusively to constitute a waiver, abandonment, or relinquishment of any and all claims resulting from that particular event of delay. Excusable Delay may be compensable or non-compensable, as provided below.

16.1.1 Compensable Excusable Delay. Excusable Delay is compensable when (i) the delay extends the Contract Time; (ii) is caused by circumstances beyond the control of Contractor or its Subcontractors, suppliers, or vendor; and (iii) is caused solely by fraud, bad faith, or active interference on the part of Municipality or its agents. In no event shall Contractor be compensated for interim delays that do not extend the Contract Time. Contractor shall be entitled to direct and indirect costs for Compensable Excusable Delay. Direct costs recoverable by Contractor shall be limited to the actual additional costs allowed pursuant to Article 13 hereof.

Municipality and Contractor recognize and agree that the amount of Contractor's precise actual indirect costs for delay in the performance and completion of the Work is impossible to determine as of the date of execution of this Contract, and that proof of the precise amount will be difficult. Therefore, indirect costs recoverable by Contractor shall be liquidated on a daily basis for each day the Contract Time is delayed due to a Compensable Excusable Delay. These liquidated indirect costs shall be paid to compensate Contractor for all indirect costs caused by a Compensable Excusable Delay, and shall include, but not be limited to, lost profits, all profit on indirect costs, home office overhead, acceleration, loss of earnings, loss of productivity, loss of bonding capacity, loss of opportunity and all other indirect costs incurred by Contractor. The amount of liquidated indirect costs recoverable shall be **ZERO Dollars (\$0.00)** per day for each day this Contract is delayed due to a Compensable Excusable Delay.

16.1.2 Non-Compensable Excusable Delay. When Excusable Delay is (i) caused by circumstances beyond the control of Contractor, its Subcontractors, suppliers, and vendors; (ii) caused by circumstances beyond the control of Municipality or Consultant; or (iii) caused jointly or concurrently by Contractor or its Subcontractors, suppliers, or vendors and by Municipality or Consultant, then Contractor shall be entitled only to a time extension and no further compensation for the delay.

ARTICLE 17. DOMESTIC PARTNERSHIP REQUIREMENT

Unless this Contract is exempt from the provisions of the Broward County Domestic Partnership Act, Section 16½-157, Broward County Code of Ordinances ("Act"), Contractor certifies and represents that it will at all times comply with the provisions of the Act, and the contract language referenced in the Act is deemed incorporated in this Contract as though fully set forth in this section. The failure of Contractor to comply shall be a material breach of this Contract, entitling Municipality to pursue any and all remedies provided under Applicable Law including, but not limited to (1) retaining all monies due or to become due Contractor until Contractor complies; (2) termination of this Contract; and (3) suspension or debarment of Contractor.

ARTICLE 18. EQUAL EMPLOYMENT OPPORTUNITY AND CBE/SBE COMPLIANCE

18.1. No party to this Contract may discriminate on the basis of race, color, sex, religion, national origin, disability, age, marital status, political affiliation, sexual orientation, pregnancy, or gender identity and expression in the performance of this Contract, except that any project assisted by the U.S. Department of Transportation funds shall comply with the nondiscrimination requirements in 49 C.F.R. Part 26. Contractor shall include the foregoing or similar language in its contracts with any Subcontractors.

18.2. Contractor shall comply with all applicable requirements of Section 1-81, Broward County Code of Ordinances, in the award and administration of this Contract. Failure by Contractor to carry out any of the requirements of this article shall constitute a material breach of this Contract, which shall permit Municipality to terminate this Contract or exercise any other remedy provided under this Contract, the Broward County Code of Ordinances, the Broward County Administrative Code, or under other Applicable Law, all such remedies being cumulative.

18.3. Contractor must meet or exceed the required CBE or SBE goal by utilizing the CBE or SBE firms listed in Exhibit A (or a CBE/SBE firm substituted for a listed firm, if permitted) for **thirty percent (30%)** of total Work under this Contract (the "Commitment"). In performing the Work, Contractor shall utilize the CBE or SBE firms listed in Exhibit A for the scope of work and the percentage of work amounts identified on each Letter of Intent. Promptly upon execution of this Contract by Municipality, Contractor shall enter into formal contracts with the CBE or SBE firms listed in Exhibit A and, upon request, shall provide copies of the contracts to the Contract Administrator and OESBD.

18.4. Each CBE or SBE firm utilized by Contractor to meet the CBE or SBE goal must be certified by OESBD. Contractor shall inform Municipality immediately when a CBE or SBE firm is not able to perform or if Contractor believes the CBE or SBE firm should be replaced for any other reason, so that OESBD can review and verify the good faith efforts of Contractor to substitute the CBE or SBE firm with another CBE or SBE firm. Whenever a CBE or SBE firm is terminated for any reason, Contractor shall provide written notice to OESBD and, upon written approval of the Director of OESBD, shall substitute another CBE or SBE firm in order to meet the CBE or SBE goal, unless otherwise provided in this Contract or agreed to in writing by the Parties. Such substitution shall not be required if the termination results from modification of the scope of services and no CBE

or SBE firm is available to perform the modified scope of services; in which event, Contractor shall notify OESBD, and OESBD may adjust the CBE or SBE goal by written notice to Contractor. Contractor shall not terminate a CBE or SBE firm for convenience without OESBD's prior written consent, which consent shall not be unreasonably withheld.

18.5. The Parties stipulate that if Contractor fails to meet the Commitment, the damages to Municipality arising from such failure are not readily ascertainable at the time of contracting. If Contractor fails to meet the Commitment and County determines, in the sole discretion of the OESBD Program Director, that Contractor failed to make Good Faith Efforts (as defined in Section 1-81, Broward County Code of Ordinances) to meet the Commitment, Contractor shall pay Municipality liquidated damages in an amount equal to fifty percent (50%) of the actual dollar amount by which Contractor failed to achieve the Commitment, up to a maximum amount of ten percent (10%) of the total contract amount excluding costs and reimbursable expenses. An example of this calculation is stated in Section 1-81.7, Broward County Code of Ordinances. As elected by Municipality, such liquidated damages amount shall be either credited against any amounts due from Municipality, or must be paid to Municipality within thirty (30) days after written demand. These liquidated damages shall be Municipality's sole contractual remedy for Contractor's breach of the Commitment, but shall not affect the availability of administrative remedies under Section 1-81. Contractor acknowledges and agrees that the liquidated damages provided in this section are proportionate to an amount that might reasonably be expected to flow from a breach of the Commitment and are not a penalty. Any failure to meet the Commitment attributable solely to force majeure, changes to the Scope of Work by Municipality, or inability to substitute a CBE or SBE Subcontractor where the OESBD Program Director has determined that such inability is due to no fault of Contractor, shall not be deemed a failure by Contractor to meet the Commitment.

18.6. Contractor acknowledges that County, may make minor administrative modifications to Section 1-81, Broward County Code of Ordinances, which shall become applicable to this Contract if the administrative modifications are not unreasonable. Written notice of any such modification shall be provided to Contractor and shall include a deadline for Contractor to notify Municipality in writing if Contractor concludes that the modification exceeds the authority under this section. Failure of Contractor to timely notify Municipality of its conclusion that the modification exceeds such authority shall be deemed acceptance of the modification by Contractor.

18.7. OESBD may modify the Commitment in connection with any amendment, extension, modification, or change order to this Contract that, by itself or aggregated with previous amendments, extensions, modifications, or change orders, increases the initial Contract price by ten percent (10%) or more. Contractor shall make a good faith effort to include CBE or SBE firms in work resulting from any such amendment, extension, modification, or change order, and shall report such efforts, along with evidence thereof, to OESBD.

18.8. No later than ten (10) business days after the end of the month, Contractor shall provide written monthly reports to the Contract Administrator and the OESBD Director attesting to Contractor's compliance with the Commitment. In addition, Contractor shall allow Municipality and OESBD to engage in onsite reviews to monitor Contractor's progress in achieving and

maintaining the Commitment. The Contract Administrator in conjunction with OESBD shall perform such review and monitoring, unless otherwise determined by the County Administrator.

18.9. The Contract Administrator may withhold progress payments if Contractor fails to demonstrate timely payments of sums due to all Subcontractors and suppliers. The presence of a “pay when paid” provision in a Contractor’s contract with a CBE or SBE firm shall not preclude Municipality or its representatives from inquiring into claims of nonpayment.

ARTICLE 19. SUPPLEMENTAL REQUIREMENTS

19.1 ☒ Prevailing Wage Rate Ordinance - This Project is not federally funded. If the price of this Contract is in excess of Two Hundred Fifty Thousand Dollars (\$250,000.00), the following sections shall apply.

19.1.1. The rate of wages and fringe benefit payments for all laborers, mechanics, and apprentices shall not be less than those payments for similar skills in classifications of work in a like construction industry as determined by the Secretary of Labor and as the most recently published in the Federal Register.

19.1.2. All mechanics, laborers, and apprentices, employed or working on the site of the Work, shall be paid in accordance with the above referenced wage rates. Contractor shall post this section of the Contract (Supplemental Wage Requirements) at the site of the Work in a prominent place where it can be easily seen by the workers.

19.1.3. If the Parties cannot agree on the proper classification of a particular class of laborers or mechanics or apprentices that will be used on the Work site, the Contract Administrator shall submit the question, together with its recommendation, to the Municipality’s City Manager for final determination, which shall be binding.

19.1.4. If the Contract Administrator determines that any laborer or mechanic or apprentice employed by Contractor or any Subcontractor on the site of the Work has been or is being paid wages less than the rate of wages required by the Prevailing Wage Ordinance, Section 26-5 of the Broward County of Ordinances, as amended, the Contract Administrator may (1) by written notice to Contractor direct Contractor to terminate the Work or such part of Work for which there has been a failure to pay said required wages; and (2) contract with another party to perform the Work or portion thereof to completion, whereupon, Contractor and its Sureties shall be liable to Municipality for any and all costs incurred by Municipality to complete such Work to the extent such costs exceed any amounts that Contractor would be due for performance of such Work.

19.1.5. Contractor shall maintain payrolls and basic records relating thereto during the course of the Work and shall preserve such for a period of three (3) years thereafter for all laborers, mechanics, and apprentices working at the site of the Work. Such records shall contain the name and address of each such employee; the employee’s current classification; rate of pay (including rates of contributions for, or costs assumed to

provide, fringe benefits); daily and weekly number of hours worked; deductions made; and actual wages paid.

19.1.6. Contractor shall submit, with each application for payment, a signed and sworn "Statement of Compliance" (Form 8A) attesting to compliance with the Prevailing Wage Ordinance, Section 26-5 of the Broward County of Ordinances, as amended.

19.1.7. The Contract Administrator may withhold or cause to be withheld from Contractor so much of the payments requisitioned as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and guards employed by Contractor or any Subcontractor on the Work, the full amount of wages required by this Contract.

19.1.8. If Contractor or any Subcontractor fails to pay any laborer, mechanic, or apprentice employed or working on the site of the Work all or part of the wages required by this Contract, the Contract Administrator may, after written notice to Contractor, take such action as may be necessary to cause suspension of any further payments or advances until such violations have ceased.

19.2. ☐ Federal Grant Projects:

19.2.1. Because this Project will be funded, in whole or in part, by the United States government through _____[Federal Agency]_____ and referred to as _____ No. _____, all Federal assurances applicable to such funding, including any and all supervening assurances set forth in Rules and Regulations published in Federal Register or C.F.R., shall apply to this Contract.

19.2.2. Accordingly, all clauses, terms, or conditions required by federal grantor agency with respect to the federal funding for this Project are attached and made a part of this Contract. **[ATTACH RELEVANT DOCUMENTS IF SECTION 19.2 IS CHECKED].**

ARTICLE 20. MISCELLANEOUS

20.1. Verification of Employment Eligibility. Contractor represents that Contractor and each Subcontractor has registered with and uses the E-Verify system maintained by the United States Department of Homeland Security to verify the work authorization status of all newly hired employees in compliance with the requirements of Section 448.095, Florida Statutes, and that entry into this Agreement will not violate that statute. If Contractor violates this section, Municipality may immediately terminate this Agreement for cause and Contractor shall be liable for all costs incurred by Municipality due to the termination.

20.2. Living Wage Requirement. To the extent Contractor is a "covered employer" within the meaning of the Broward County Living Wage Ordinance, Sections 26-100 through 26-105, Broward County Code of Ordinances, Contractor agrees to and shall pay to all of its employees

Bid/Contract #94 [BCF #170 Addendum 7/14/2021]

providing “covered services,” as defined in the ordinance, a living wage as required by such ordinance, and shall fully comply with the requirements of such ordinance, and that Contractor shall ensure all of its Subcontractors that qualify as “covered employers” fully comply with the requirements of such ordinance.

20.3. Workforce Investment Program. This Contract constitutes a “Covered Contract” under the Broward Workforce Investment Program, Broward County Administrative Code Section 19.211 (“Workforce Investment Program”). Contractor affirms it is aware of the requirements of the Workforce Investment Program and agrees to use good faith efforts to meet the First Source Referral Goal and the Qualifying New Hires Goal as set forth therein, including by (a) publicly advertising any vacancies that are the direct result of this Contract (whether those vacancies are with Contractor or its Subcontractors) exclusively with CareerSource Broward for at least five (5) business days and using good faith efforts to interview any qualified candidates referred under the Workforce Investment Program, and (b) using good faith efforts to hire Qualifying New Hires, as defined by the Workforce Investment Program, for at least fifty percent (50%) of the vacancies that are the direct result of this Contract. Until at least one year after the conclusion of this Contract, Contractor shall maintain and make available to Municipality upon request all records documenting Contractor’s compliance with the requirements of the Workforce Investment Program, and shall submit the required Workforce Investment Reports to the Contract Administrator annually by January 31 and within thirty (30) days after the expiration or termination of this Contract. Failure to demonstrate good faith efforts to meet the First Source Referral Goal and the Qualifying New Hires Goal shall constitute a material breach of this Contract.

(The remainder of this page is intentionally left blank.)

IN WITNESS WHEREOF, the Parties hereto have made and executed this Agreement: CITY OF FORT LAUDERDALE through its Board, signing by and through its Mayor or Vice-Mayor authorized to execute same by Board action on the _____ day of _____, 20____, and INTERSTATE CONSTRUCTION, LLC, signing by and through its _____, duly authorized to execute same.

CITY OF FORT LAUDERDALE

ATTEST:

DAVID R. SOLOMAN
City Clerk

By: _____
MAYOR

Print Name

_____ day of _____, 20____

I HEREBY CERTIFY that I have approved
this Agreement as to form and legal
sufficiency subject to execution by the parties:

Assistant City Attorney

CONTRACT BETWEEN THE CITY OF FORT LAUDERDALE AND
_____, FOR _____
BID/CONTRACT NO.: 94

COMPANY

WITNESSES:

Print Name

Print Name

By: _____

Print Name/title

(COMPANY SEAL)

STATE OF _____:

COUNTY OF _____:

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization, this _____ day of _____, 2023, by _____ as _____ for _____, a Florida _____ company/corporation.

(SEAL)

(Signature of Notary Public - State of _____)

(Print, Type, or Stamp Commissioned Name of Notary Public)

Personally Known _____ OR Produced Identification _____

Type of Identification Produced: _____

WITNESSES:

By: _____

_____, _____

Bid/Contract #94 [BCF #170 Addendum 7/14/2021]

Page **26** of **51**

Print Name

Print Name

STATE OF _____:

COUNTY OF _____:

The foregoing instrument was acknowledged before me by means of ☐ physical presence
or ☐ online notarization, this _____ day of _____, 2023, by _____ as
_____ for _____, a Florida _____.

(SEAL)

(Signature of Notary Public - State of _____)

(Print, Type, or Stamp Commissioned Name of
Notary Public)

Personally Known _____ OR Produced Identification _____

Type of Identification Produced: _____

EXHIBIT A: LIST OF CBE/SBE CERTIFIED FIRMS

EXHIBIT B: FORMS

FORM 1: PERFORMANCE BOND

Project Name: South Ocean Drive Bridge Replacement

Project Number: 12087 Re-Bid

BY THIS BOND, We _____, located at _____, phone _____, and _____, as Principal, hereinafter called Contractor, and _____, located at _____, phone _____, and _____, as Surety, under the assigned Bond Number _____, are bound to the Municipality of _____, Florida ("Municipality"), and Broward County, Florida, as dual Obligees (hereinafter jointly and severally referred to as "Municipality/County"), in the amount of _____ Dollars (\$_____) for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally.

WHEREAS, Contractor has by written agreement dated the _____ day of _____, 20____, entered into a Contract, Bid/Contract No. _____, with Municipality, the terms of which contract (including the Contract Documents, as those are defined in the contract) are incorporated by reference herein and made a part hereof as the "Contract," which includes any and all provisions for liquidated damages, and other damages identified.

THE CONDITION OF THIS BOND is that if Contractor:

- 1) Performs the Contract between Contractor and Municipality for construction of _____, in the time and manner prescribed in the Contract; and
- 2) Pays Municipality/County all losses, liquidated damages, expenses, costs and attorneys' fees including appellate proceedings, that Municipality/County sustains as a result of default by Contractor under the Contract; and
- 3) Performs the guaranties of all work and materials furnished under the Contract for the time specified in the Contract, then THIS BOND IS VOID; OTHERWISE IT REMAINS IN FULL FORCE AND EFFECT.

Whenever Contractor shall be, and is declared by Municipality/County to be, in default under the Contract with Municipality, having performed its obligations thereunder, the Surety may promptly remedy the default, or shall promptly:

- a) Complete the required performance in accordance with the terms and conditions of the Contract Documents; or
 - b) Obtain a bid or bids for completing the Project in accordance with the terms and conditions of the Contract Documents, and upon determination by Surety of the lowest responsible Bidder,
- Bid/Contract #94 [BCF #170 Addendum 7/14/2021]*

or, if Municipality/County elects, upon determination by Municipality/County and Surety jointly of the lowest responsible Bidder, arrange for a contract between such Bidder and Municipality/County on the same terms and conditions as the Contract Documents unless otherwise agreed by Municipality/County, and shall make available as work progresses sufficient funds to pay the cost of completion of the Work required by the Contract in an amount less but not exceeding the balance of the Contract Price, which amount shall include other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "balance of the Contract Price," as used in this paragraph, shall mean the total amount payable by Municipality to Contractor under the Contract and any amendments thereto, less the amount properly paid by Municipality to Contractor.

No right of action shall accrue on this bond to or for the use of any person or corporation other than Municipality/County named herein.

The Surety hereby waives notice of and agrees that any changes in or under the Contract Documents and compliance or noncompliance with any formalities connected with the Contract or the changes does not affect Surety's obligation under this Bond.

Signed and sealed this _____ day of _____, 20____.

ATTEST:

CONTRACTOR

Corporate Secretary or other
person authorized to attest

By: _____
Authorized Signor

Print Name

Print Name and Title

_____ day of _____, 20____

(CORPORATE SEAL OR NOTARY)

IN THE PRESENCE OF:

Signature

SURETY:
By _____
Agent and Attorney-in-Fact

(Print Name)

Signature

(Print/Type Name)
Address: _____
(Street)

(City/State/Zip Code)

Telephone No.: _____

FORM 2: PAYMENT BOND

Project Name: South Ocean Drive Bridge Replacement

Project Number: 12087 Re-Bid

KNOW ALL BY THESE PRESENTS:

That we _____, as Principal (hereinafter called "Contractor"), located at _____, phone _____, and _____, as Surety, located at _____, phone _____, under the assigned Bond Number _____ and pursuant to Section 255.05, Florida Statutes, are bound to the Municipality of _____, Florida ("Municipality") and Broward County, Florida (hereinafter jointly and severally referred to as "Municipality/County"), as dual Obligees, in the amount of _____ Dollars (\$_____) for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally.

WHEREAS, Contractor has by written agreement dated the ____ of _____, 20____, entered into a Contract, Bid/Contract No. _____, with Municipality for construction of _____ located at _____, the terms of which contract (including the Contract Documents, as those are defined in the contract) are incorporated by reference herein and made a part hereof as the "Contract."

THE CONDITION OF THIS BOND is that if Contractor:

1. Pays Municipality/County all losses, damages, expenses, costs and attorneys' fees including appellate proceedings, that Municipality/County sustains because of default by Contractor under the Contract; and
2. Promptly makes payments to all claimants as defined by Florida Statute Section 255.05(1) for all labor, materials and supplies used directly or indirectly by Contractor in the performance of the Contract;

THEN CONTRACTOR'S OBLIGATION SHALL BE VOID; OTHERWISE, IT SHALL REMAIN IN FULL FORCE AND EFFECT SUBJECT, HOWEVER, TO THE FOLLOWING CONDITIONS:

A. A claimant, except a laborer, who is not in privity with Contractor and who has not received payment for its labor, materials, or supplies shall, within forty-five (45) days after beginning to furnish labor, materials, or supplies for the prosecution of the work, furnish to Contractor a notice that he or she intends to look to the bond for protection.

B. A claimant who is not in privity with Contractor and who has not received payment for its labor, materials, or supplies shall, within ninety (90) days after performance of the labor or after complete delivery of the materials or supplies, deliver to Contractor and to the Surety, written

notice of the performance of the labor or delivery of the materials or supplies and of the nonpayment.

C. No action for the labor, materials, or supplies may be instituted against Contractor or the Surety unless the notices stated under the preceding conditions (A) and/or (B), as applicable, have been given.

D. Any action under this Bond must be instituted in accordance with the Notice and Time Limitations provisions prescribed in Sections 255.05(2) and 255.05(10), Florida Statutes.

The Surety hereby waives notice of and agrees that any changes in or under the Contract Documents and compliance or noncompliance with any formalities connected with the Contract or the changes does not affect the Surety's obligation under this Bond.

Signed and sealed this _____ day of _____, 20____.

ATTEST:

CONTRACTOR

Corporate Secretary or other
person authorized to attest

By: _____
Authorized Signor

Print Name

Print Name and Title

_____ day of _____, 20____

(CORPORATE SEAL OR NOTARY)

IN THE PRESENCE OF:

SURETY:

Signature

By _____
Agent and Attorney-in-Fact

(Print Name)

(Print/Type Name)

Signature

Address:

(Street)

(Print Name)

(City/State/Zip Code)

Telephone No.: _____

FORM 3: CERTIFICATE AS TO CORPORATE PRINCIPAL

[COMPLETE ONLY ONE: CERTIFICATION BY CORPORATE SECRETARY OR NOTARIZED CERTIFICATION UNDER OATH]

CERTIFICATION BY CORPORATE SECRETARY:

I, _____, certify that I am the Secretary of the corporation named as Principal in the foregoing Performance and Payment Bonds; that _____, who signed the Bond(s) on behalf of the Principal, was then _____ of said corporation; that I know their signature; that their signature thereto is genuine; and that said Bond(s) was (were) duly signed, sealed and attested to on behalf of said corporation by authority of its governing body.

Signature: _____
as Secretary of [Print **Name of** Principal/Contractor] _____

(CORPORATE SEAL)

Print Name: _____

NOTARIZED CERTIFICATION UNDER OATH:

STATE OF _____
COUNTY OF _____

Before me, Name of Notary Public a Notary Public duly commissioned, qualified, and acting, personally appeared Name of Principal/Contractor's Authorized Signor, who has duly sworn under oath (or affirmed) that they are authorized to execute the foregoing Performance and Payment Bond on behalf of Contractor named therein in favor of County.

Sworn to (or affirmed) and subscribed before me by means of ☐ physical presence or ☐ online notarization, this _____ day of _____, 20____.

NOTARY PUBLIC:

Signature: _____

Print Name: _____

(NOTARY SEAL)

My commission expires:

☐ Personally Known or ☐ Produced Identification

Type of Identification Produced: _____

FORM 4: FORM OF CERTIFICATE AND AFFIDAVIT FOR BONDS \$500,000.00 OR LESS

TO: MUNICIPALITY OF FORT LAUDERDLE
RE: BID NUMBER: 94

BIDDER: _____

[Insert Name]

[Insert Address]

Address Cont'd

[Insert Phone Number]

AMOUNT OF BOND: _____

SURETY BOND COMPANY:

[Insert Name]

[Insert Address]

Address Cont'd

[Insert Phone Number]

This is to certify that, in accordance with Section 287.0935, Florida Statutes, the insurer named above:

- (1) Is licensed to do business in the State of Florida;
- (2) Holds a certificate of authority authorizing it to write surety bonds in the State of Florida;
- (3) Has twice the minimum surplus and capital required by the Florida Insurance Code;
- (4) Is otherwise in compliance with the provisions of the Florida Insurance Code; and
- (5) Currently holds a valid certificate of authority issued by the United States Department of Treasury under 31 U.S.C. §§ 9304-9308.

(Date Signed)

Agent and Attorney-in-Fact

(continued on next page)

Bid/Contract #94 [BCF #170 Addendum 7/14/2021]

AFFIDAVIT

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization, this _____ day of _____, 20____, by _____, Agent and Attorney-in-Fact of _____ and who ☐ did ☐ did not take an oath.

NOTARY PUBLIC:

Signature: _____

Print Name: _____

(NOTARY SEAL)

My commission expires:

☐ Personally Known or ☐ Produced Identification

Type of My commission expires:

Identification Produced: _____

FORM 5: UNCONDITIONAL LETTER OF CREDIT

UNCONDITIONAL LETTER OF CREDIT

Beneficiary:

Municipality of _____, Florida

Municipality Manager

_____, Florida _____

Date of Issue:

Issuing Bank's No. _____

Applicant: _____

Amount: _____ (in United States Funds)

Date of Expiry: _____

Bid/Contract Number _____

We hereby authorize you to draw on (Bank, Issuer Name) at (Branch Address) by order of and for the account of (Contractor, Applicant, Customer) up to an aggregate amount, in United States Funds, of \$(Dollar Amount) available by your drafts at sight, accompanied by: A signed statement from the Municipality Manager of the Municipality of _____, Florida, or the Municipality Manager's authorized representative that the drawing is due to default in performance of certain obligations on the part of (Contractor, Applicant, Customer) agreed upon by and between the Municipality of _____ and (Contractor, Applicant, Customer) pursuant to the Bid/Contract No. _____ for (Name of Project) and Section 255.05, Florida Statutes. Drafts must be drawn and negotiated not later than (expiration date). Drafts must bear the clause: "Drawn under Letter of Credit No. (number), of (Bank Name) dated _____."

This Letter of Credit shall be renewed for successive periods of one (1) year each unless we provide the Municipality Manager with written notice of our intent to terminate the credit herein extended, which notice must be provided at least thirty (30) days prior to the expiration date of the original term hereof or any renewed one (1) year term. Notification to Municipality of _____ that this Letter of Credit will expire prior to performance of Contractor's obligations will be deemed a default.

This Letter of Credit sets forth in full the terms of our undertaking, and such undertaking shall not in any way be modified or amplified by reference to any documents, instrument, or agreement referred to herein or in which this Letter of Credit is referred to or this Letter of Credit relates, and any such reference shall not be deemed to incorporate herein by reference any document, instrument, or agreement.

We hereby agree with the drawers, endorsers, and bona fide holders of all drafts drawn under and in compliance with the terms of this Letter of Credit that such drafts will be duly honored upon presentation to the drawee.

Obligations under this Letter of Credit shall be released one (1) year after the final completion of the Project by the _____ (Contractor, Applicant, Customer).

This Credit is subject to the "Uniform Customs and Practice for Documentary Credits," International Chamber of Commerce (2007 revision), Publication No. 600 and to the provisions of Florida law. If a conflict between the Uniform Customs and Practice for Documentary Credits

and Florida law should arise, Florida law shall prevail. If a conflict between the law of another state or country and Florida law should arise, Florida law shall prevail.

Authorized Signature: _____

FORM 8A: STATEMENT OF COMPLIANCE (PREVAILING WAGE RATE)

No. _____
Contract No. _____
Project Title _____

The undersigned Contractor hereby swears under penalty of perjury that, during the period covered by the application for payment to which this statement is attached, all mechanics, laborers, and apprentices, employed or working on the site of the Project, have been paid at wage rates, and that the wage rates of payments, contributions, or costs for fringe benefits have not been less than those required by Section 26-5 of the Broward County Code of Ordinances and the applicable conditions of the Contract.

Dated _____, 20____ Contractor _____

By _____
(Signature)

By _____
(Name and Title)

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization, this _____ day of _____, 20____, by _____, and who ☐ did ☐ did not take an oath.

NOTARY PUBLIC:

Signature: _____

Print Name: _____

(NOTARY SEAL)

My commission expires:

☐ Personally Known or ☐ Produced Identification

Type of Identification Produced: _____

FORM 8B: STATEMENT OF COMPLIANCE (DAVIS-BACON ACT)

No. _____
Contract No. _____
Project Title _____

The undersigned Contractor hereby swears under penalty of perjury that, during the period covered by the application for payment to which this statement is attached, all mechanics, laborers, and apprentices, employed or working on the site of the Project, have been paid at wage rates, and that the wage rates of payments, contributions, or costs for fringe benefits have not been less than those required by the Davis-Bacon Act and the applicable conditions of the Contract.

Dated _____, 20____ Contractor _____

By _____
(Signature)

By _____
(Name and Title)

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization, this _____ day of _____, 20____, by _____, and who ☐ did ☐ did not take an oath.

NOTARY PUBLIC:

Signature: _____

Print Name: _____

(NOTARY SEAL)

My commission expires:

☐ Personally Known or ☐ Produced Identification

Type of Identification Produced: _____

FORM 9: CERTIFICATION OF PAYMENTS TO SUBCONTRACTORS

Contract No. _____
Project Title _____

The undersigned Contractor hereby swears under penalty of perjury that:

1. Contractor has paid all Subcontractors all undisputed contract obligations for labor, services, or materials provided on this Project within the time period set forth in Sections 218.73 and 218.735, Florida Statutes, as applicable.
2. The following Subcontractors have not been paid because of disputed contractual obligations; a copy of the notification sent to each, explaining the good cause why payment has not been made, is attached to this form:

Subcontractor Name and Address	Date of Disputed Invoice	Amount in Dispute

Dated _____, 20____

Contractor

By _____
(Signature)

By _____
(Name and Title)

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization, this _____ day of _____, 20____, by _____, and who ☐ did ☐ did not take an oath.

NOTARY PUBLIC:

Signature: _____

Print Name: _____

(NOTARY SEAL)

My commission expires: _____

☐ Personally Known or ☐ Produced Identification

Type of Identification Produced: _____

FORM 10: CERTIFICATE OF SUBSTANTIAL COMPLETION

Contract No. _____
Project (Name and Address): _____
To (Municipality): _____
Consultant: _____
Contractor: _____
Notice to Proceed Date: _____
Consultant: _____
Date of Issuance: _____

Project or Designated Portion Shall Include:

The Work performed under this Contract has been reviewed and found to be substantially complete and all documents required to be submitted by Contractor under the Contract Documents have been received and accepted.

The date of Substantial Completion of the Project or portion thereof designated above is recommended as: _____

Unless otherwise defined in the contract, the definition of date of Substantial Completion is that date, as certified in writing by Consultant and as finally determined by Contract Administrator in its sole discretion, on which the Work, or a portion thereof, is at a level of completion in substantial compliance with the Contract Documents, such that all conditions of permits and regulatory agencies have been satisfied and the Owner or its designee can enjoy use or occupancy and can use or operate the Project in all respects for its intended purpose. A Certificate of Occupancy (or a Temporary Certificate of Occupancy or other alternate municipal/county authorization for limited or conditional occupancy acceptable to the Contract Administrator) must be issued for Substantial Completion to be achieved; however, the issuance of a Certificate of Occupancy or the date thereof does not constitute Substantial Completion.

A list of items to be completed or corrected that has been prepared by Consultant and approved by Municipality is attached hereto. The failure to include any items on such list does not alter the responsibility of Contractor to complete all work in accordance with the Contract Documents.

Consultant By Date

--	--	--

Date

 (time) on (date).

Date

damage to the work, and insurance shall be as follows: _____

FORM 11: FINAL CERTIFICATE OF PAYMENT

Contract No. _____
Project (Name and Address): _____
To (Municipality): _____
Consultant: _____
Contractor: _____
Notice to Proceed Date: _____
Consultant: _____
Date of Issuance: _____

All conditions or requirements of any permits or regulatory agencies have been satisfied. The documents required pursuant to the terms and conditions of the Contract, and the final bill of materials, if required, have been received and accepted. The Work required by the Contract Documents has been reviewed and the undersigned certifies that the Work, including minor corrective work, has been completed in accordance with the provision of the Contract Documents and is accepted under the terms and conditions thereof.

Consultant By Date

Municipality, through its Municipality Manager, accepts the work as fully complete and will assume full possession thereof at _____ on _____.
(time) (date)

MUNICIPALITY OF _____: _____
By Municipality Manager Date

FORM 12: FORM OF FINAL RECEIPT

[The following form will be used to show receipt of final payment for this Contract.]

FINAL RECEIPT FOR CONTRACT NO. _____

Received this _____ day of _____, 20____, from the Municipality of _____, Florida, the sum of _____ Dollars (\$_____) as full and final payment to Contractor for all work and materials for the Project described as:

_____
_____

This sum includes full and final payment for all extra work and material and all incidentals.

Contractor hereby indemnifies and releases the Municipality of _____ from all liens and claims whatsoever arising out of the Contract and/or Project.

Contractor hereby certifies that all persons doing work upon or furnishing materials or supplies for the Project have been paid in full. In lieu of this certification regarding payment for work, materials and supplies, Contractor may submit a consent of surety to final payment in a form satisfactory to the Municipality of _____.

Contractor further certifies that all taxes imposed by Chapter 212, Florida Statutes (Sales and Use Tax Act), as amended, have been paid and discharged.

[IF INCORPORATED SIGN BELOW.] _____

CONTRACTOR

ATTEST:

CONTRACTOR NAME

Corporate Secretary or other
person authorized to attest

By: _____
Authorized Signor

(CORPORATE SEAL OR NOTARY)

Print Name and Title

_____ day of _____, 20____

[IF NOT INCORPORATED SIGN BELOW.]

CONTRACTOR

WITNESSES:

Witness signature

Business Name

Print/Type Name

By: _____
Authorized Signor

Witness signature

Print/Type Name and Title

Print/Type Name

_____ day of _____, 20____

FORM 13: FINAL LIST OF NON-CERTIFIED SUBCONTRACTORS AND SUPPLIERS

To: _____, Contractor

From: Broward County Purchasing Division

Subject: Final List of Non-certified Subcontractors/Sub-vendors

Re: _____
(Project Title, Contract Number)

The attached list of non-certified Subcontractors/sub-vendors have performed or provided services to Municipality for the referenced contract. Non-certified Subcontractors/sub-vendors are any Subcontractors/sub-vendors whose services under the Contract were not approved to meet the participation CBE/SBE goal established for this Contract, and whose participation was not listed on Contractor's "Schedule of Participation" and/or not approved as substitutes or additions by the Broward County Office of Economic Small Business Development Division toward meeting the established goal.

Contractor certifies the following:

- ☐ There were no other non-certified Subcontractors/sub-vendors who provided a service to Municipality for the referenced Contract. All participants on the Contract are listed on the attached list.
- ☐ There were other non-certified Subcontractors/sub-vendors who provided a service and are not listed on the attached list. The additional Subcontractors/sub-vendors are listed on the attached list.

THE UNDERSIGNED VENDOR HEREBY CERTIFIES THAT THE INFORMATION PROVIDED HEREIN IS TRUE AND CORRECT.

STATE OF _____
COUNTY OF _____

The foregoing Final List of Non-Certified Subcontractors and Suppliers was acknowledged before me by means of ☐ physical presence or ☐ online notarization, this ____ day of _____, 20__, by _____, and who ☐ did ☐ did not take an oath.

(NOTARY SEAL)

Signature: _____

Print Name: _____

My commission expires:

☐ Personally Known or ☐ Produced Identification

Type of Identification Produced: _____

(ACKNOWLEDGEMENT BY THE PROPOSED CBE/SBE FIRM)

The undersigned intends to perform Work in connection with the above Contract as (check one): ___ an individual ___ a partnership ___ a corporation ___ a joint venture. The undersigned agrees with the prime contractor's/consultant's proposal and further certifies that all information provided herein is true and correct.

(Signature of Owner or Authorized Rep. **CBE/SBE**)

(Date)

Print Name (owner or authorized Rep. **CBE/SBE**): _____

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization, this _____ day of _____, 20____, by _____, and who ☐ did ☐ did not take an oath.

NOTARY PUBLIC:

Signature: _____

Print Name: _____

(NOTARY SEAL)

My commission expires: _____

☐ Personally Known or ☐ Produced Identification

Type of Identification Produced: _____

EXHIBIT C: ADDITIONAL FORMS

SCRUTINIZED COMPANIES LIST CERTIFICATION

This certification form should be completed and submitted with your proposal but must be completed and submitted prior to award.

The vendor, by virtue of the signature below, certifies that:

- a. The vendor, owners, or principals are aware of the requirements of Section 287.135, Florida Statutes, regarding companies on the Scrutinized Companies with Activities in Sudan List or on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and
- b. The vendor, owners, or principals, are eligible to participate in this solicitation and not listed on either the Scrutinized Companies with Activities in Sudan List or on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and
- c. If awarded the contract, the vendor, owners, or principals will immediately notify the Municipality in writing if any of its principals are placed on the Scrutinized Companies with Activities in Sudan List or on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List.

(Authorized Signature)

(Print Name and Title)

(Name of Firm)

NOTARY PUBLIC

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization, this _____ day of _____, 20____, by _____, and who ☐ did ☐ did not take an oath.

Signature: _____

Print Name: _____

(NOTARY SEAL)

My commission expires: _____

☐ Personally Known or ☐ Produced Identification

Type of Identification Produced: _____

CITY FINAL TECHNICAL SPECIFICATIONS

April 21, 2020

PREPARED BY:
Shaun Connor, P.E. (SC)
Kathy Lajo, P.E. (KL)



CITY OF FORT LAUDERDALE

SPECIFICATIONS PACKAGE
PROJECT ID: 12087

CITY OF FORT LAUDERDALE
BROWARD COUNTY

Division I of the January 2019 Edition of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction is not used, and all of the Construction Details and Materials divisions (Division II & III) are revised, as follows:

Date:	<u>April 21, 2020</u>
Firm Name:	<u>Lakes Engineering, Inc.</u>
Firm Address:	<u>4870 SW 72nd Avenue</u>
City, State, Zip Code:	<u>Miami, Florida 33155</u>
Certificate of Authorization Number:	<u>30255</u>
Page(s):	<u>1-75</u>

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SPECIAL PROVISIONS

-3-

PROJECT NO.: 12087

DEFINITION AND TERMS.

Department Name: City of Fort Lauderdale

Engineer: The Director, Office of Construction, acting directly through duly authorized representatives; such representatives acting within the scope of the duties and authority assigned to them.

Note: In order to avoid cumbersome and confusing repetition of expressions in these Specifications, it is provided that whenever anything is, or is to be done, if, as, or, when, or where “acceptable, accepted, approval, approved, authorized, condemned, considered, necessary, contemplated, deemed necessary, designated, determined, directed, disapproved, established, given, indicated, insufficient, ordered, permitted, rejected, required, reserved, satisfactory, specified sufficient, suitable, suspended, unacceptable, or unsatisfactory,” it shall be understood as if the expression were folled by the words “by the Engineer,” “to the Engineer”, or “of the Engineer.”

SCOPE OF WORK – INTENT OF CONTRACT.

The Improvements under this Contract consist of roadway reconstruction and widening, bridge replacement, signing and pavement markings, limited lighting, and utility relocation at South Ocean Drive between Marion and Mayan Drives in Broward County.

The summary of pay items for this project is listed in the Plans.

EARTHWORK AND RELATED OPERATIONS (OFF-SYSTEM).
(REV 1-23-12) (FA 2-27-12)

SECTION 120
EARTHWORK AND RELATED OPERATIONS (OFF-SYSTEM)

120-1 Description.

120-1.1 General: Perform earthwork and related operations based on the type of work specified in the Contract and the Earthwork Categories as defined below. Meet the applicable requirements for materials, equipment and construction as specified.

Earthwork and related operations consist of excavation for the construction of the roadway, excavation for structures and pipe, constructing backfill around structures and pipe, and constructing embankments as required for the roadway, ditches, and channel changes.

120-1.2 Earthwork Categories: Performance of Earthwork Operations will fall into one of the following Earthwork Categories:

120-1.2.1 Earthwork Category 1: Includes the earthwork and related operations associated with the construction of sidewalks and bike paths along with any drainage structures associated with these facilities.

120-1.2.2 Earthwork Category 2: Includes the earthwork and related operations associated with the construction of turn lanes and other non-mainline traffic lanes, widening, roadway shoulders, concrete box culverts, retaining walls, and other drainage structures on the non-mainline pavement.

120-1.2.3 Earthwork Category 3: Includes the earthwork and related operations associated with the construction of new mainline pavement, along with concrete box culverts, retaining walls, and other drainage structures on the mainline pavement.

120-2 Classes of Excavation.

120-2.1 Excavation of Unsuitable Material: Excavation of unsuitable material consists of the removal of muck, clay, rock or any other material that is unsuitable in its original position and that is excavated below the finished grading template. For stabilized bases and sand bituminous road mixes, the finished grading template is the top of the finished base, shoulders and slopes. For all other bases and rigid pavement, the finished grading template is the finished shoulder and slope lines and bottom of completed base or rigid pavement.

120-2.2 Lateral Ditch Excavation: Lateral ditch excavation consists of all excavation of inlet and outlet ditches to structures and roadway, changes in channels of streams, and ditches parallel to the roadway right-of-way. Dress lateral ditches to the grade and cross-section shown in the plans.

120-2.3 Channel Excavation: Channel excavation consists of the excavation and satisfactory disposal of all materials from the limits of the channel as shown in the plans.

120-2.4 Excavation for Structures and Pipe: Excavation for structures consists of the excavation for bridge foundations, box culverts, pipe culverts, storm sewers and all other pipe lines, retaining walls, headwalls for pipe culverts and drains, catch basins, drop inlets, manholes, and similar structures.

120-3 Excavation Requirements.

120-3.1 Excavation and Replacement of Unsuitable Materials: Where rock, muck, clay, or other material within the limits of the roadway is unsuitable in its original position, excavate such material to the cross-sections shown in the plans or indicated by the Engineer, and backfill with suitable material. Shape backfill materials to the required cross-sections. Where the removal of plastic soils below the finished earthwork grade is required, meet a construction tolerance of plus or minus 0.2 foot in depth and plus or minus 6 inches (each side) in width.

120-3.2 Lateral Ditch Excavation: Excavate inlet and outlet ditches to structures and roadway, changes in channels of streams and ditches parallel to the roadway. Dress lateral ditches to the grade and cross-section shown in the plans.

120-3.3 Channel Excavation: Excavate and dispose of all materials from the limits of the channel as shown in the plans. Excavate for bridge foundations, box culverts, pipe culverts, storm sewers and all other pipe lines, retaining walls, headwalls for pipe culverts and drains, catch basins, drop inlets, manholes, and similar structures.

120-3.4 Excavation for Structures and Pipe.

120-3.4.1 Requirements for all Excavation: Excavate foundation pits to permit the placing of the full widths and lengths of footings shown in the plans, with full horizontal beds. Do not round or undercut corners or edges of footings. Perform all excavation to foundation materials, satisfactory to the Engineer, regardless of the elevation shown on the plans. Perform all excavation in stream beds to a depth at least 4 feet below the permanent bed of the stream, unless a firm footing can be established on solid rock before such depth is reached, and excavate to such additional depth as may be necessary to eliminate any danger of undermining. Wherever rock bottom is secured, excavate in such manner as to allow the solid rock to be exposed and prepared in horizontal beds for receiving the masonry. Remove all loose and disintegrated rock or thin strata. Have the Engineer inspect and approve all foundation excavations prior to placing masonry.

120-3.4.2 Earth Excavation:

120-3.4.2.1 Foundation Material other than the Rock: When masonry is to rest on an excavated surface other than rock, take special care to avoid disturbing the bottom of the excavation, and do not remove the final foundation material to grade until just before placing the masonry. In case the foundation material is soft or mucky, the Engineer may require excavation to a greater depth and to backfill to grade with approved material.

120-3.4.2.2 Foundation Piles: Where foundation piles are used, complete the excavation of each pit before driving the piles. After the driving is completed, remove all loose and displaced material, leaving a smooth, solid, and level bed to receive the masonry.

120-3.4.2.3 Removal of Obstructions: Remove boulders, logs, or any unforeseen obstacles encountered in excavating.

120-3.4.3 Rock Excavation: Clean all rock and other hard foundation material, remove all loose material, and cut all rock to a firm surface. Either level, step vertically and horizontally, or serrate the rock, as may be directed by the Engineer. Clean out all seams, and fill them with concrete or mortar.

120-3.4.4 Pipe Trench Excavation: Excavate trenches for pipe culverts and storm sewers to the elevation of the bottom of the pipe and to a width sufficient to provide adequate working room. Remove soil not meeting the classification specified as suitable backfill material in 120-8.3.2.2 to a depth of 4 inches below the bottom of the pipe elevation. Remove rock, boulders or other hard lumpy or unyielding material to a depth of 12 inches below the

bottom of the pipe elevation. Remove muck or other soft material to a depth necessary to establish a firm foundation. Where the soils permit, ensure that the trench sides are vertical up to at least the mid-point of the pipe.

For pipe lines placed above the natural ground line, place and compact the embankment, prior to excavation of the trench, to an elevation at least 2 feet above the top of the pipe and to a width equal to four pipe diameters, and then excavate the trench to the required grade.

120-4 Disposal of Surplus and Unsuitable Material.

120-4.1 Ownership of Excavated Materials: Dispose of surplus and excavated materials as shown in the plans or, if the plans do not indicate the method of disposal, take ownership of the materials and dispose of them outside the right-of-way.

120-4.2 Disposal of Muck on Side Slopes: As an exception to the provisions of 120-4.1, when approved by the Engineer, muck (A-8 material) may be placed on the slopes, or stored alongside the roadway, provided there is a clear distance of at least 6 feet between the roadway grading limits and the muck, and the muck is dressed to present a neat appearance. In addition, this material may also be disposed of by placing it on the slopes where, in the opinion of the Engineer, this will result in an aesthetically pleasing appearance and will have no detrimental effect on the adjacent developments. Where the Engineer permits the disposal of muck or other unsuitable material inside the right-of-way limits, do not place such material in a manner which will impede the inflow or outfall of any channel or of side ditches. The Engineer will determine the limits adjacent to channels within which such materials may be disposed.

120-4.3 Disposal of Paving Materials: Unless otherwise noted, take ownership of paving materials, such as paving brick, asphalt block, concrete slab, sidewalk, curb and gutter, etc., excavated in the removal of existing pavements, and dispose of them outside the right-of-way. If the materials are to remain the property of the Agency, place them in neat piles as directed. Existing limerock base that is removed may be incorporated in the stabilized portion of the subgrade. If the construction sequence will allow, incorporate all existing limerock base into the project as allowed by the Contract Documents.

120-4.4 Disposal Areas: Where the Contract Documents require disposal of excavated materials outside the right-of-way, and the disposal area is not indicated in the Contract Documents, furnish the disposal area without additional compensation.

Provide areas for disposal of removed paving materials out of sight of the project and at least 300 feet from the nearest roadway right-of-way line of any road. If the materials are buried, disregard the 300 foot limitation.

120-5 Materials for Embankment.

120-5.1 General Requirements for Embankment Materials: Construct embankments using suitable materials excavated from the roadway or delivered to the jobsite from authorized borrow pits.

Construct the embankment using maximum particle sizes as follows:

In top 12 inches: 3 1/2 inches (in any dimension).

12 to 24 inches: 6 inches (in any dimension).

In the depth below 24 inches: not to exceed 12 inches (in any dimension)
or the compacted thickness of the layer being placed, whichever is less.

Spread all material so that the larger particles are separated from each other to minimize voids between them during compaction. Compact around these rocks in accordance with 120-7.2.

When and where approved by the Engineer, larger rocks (not to exceed 18 inches in any dimension) may be placed outside the one to two slope and at least 4 feet or more below the bottom of the base. Compact around these rocks to a firmness equal to that of the supporting soil. Where constructing embankments adjacent to bridge end bents or abutments, do not place rock larger than 3 1/2 inches in diameter within 3 feet of the location of any end-bent piling.

120-5.2 Use of Materials Excavated From the Roadway and Appurtenances: Assume responsibility for determining the suitability of excavated material for use on the project in accordance with the applicable Contract Documents. Consider the sequence of work and maintenance of traffic phasing in the determination of the availability of this material.

120-5.3 Authorization for Use of Borrow: Use borrow only when sufficient quantities of suitable material are not available from roadway and drainage excavation, to properly construct the embankment, subgrade, and shoulders, and to complete the backfilling of structures and pipe. Do not use borrow material until so ordered by the Engineer, and then only use material from approved borrow pits.

120-5.3.1 Haul Routes for Borrow Pits: Provide and maintain, at no expense to the Agency, all necessary roads for hauling the borrow material. Where borrow area haul roads or trails are used by others, do not cause such roads or trails to deteriorate in condition.

Arrange for the use of all non-public haul routes crossing the property of any railroad. Incur any expense for the use of such haul routes. Establish haul routes which will direct construction vehicles away from developed areas when feasible, and keep noise from hauling operations to a minimum. Advise the Engineer in writing of all proposed haul routes.

120-5.3.2 Borrow Material for Shoulder Build-up: When so indicated in the plans, furnish borrow material with a specific minimum bearing value, for building up of existing shoulders. Blend materials as necessary to achieve this specified minimum bearing value prior to placing the materials on the shoulders. Take samples of this borrow material at the pit or blended stockpile.

120-5.4 Materials Used at Pipes, Culverts, etc.: Construct embankments over and around pipes, culverts, and bridge foundations with selected materials.

120-6 Embankment Construction.

120-6.1 General: Construct embankments in sections of not less than 300 feet in length or for the full length of the embankment.

120-6.2 Dry Fill Method:

120-6.2.1 General: Construct embankments to meet compaction requirements in 120-7 and in accordance with the acceptance program requirements in 120-9. Restrict the compacted thickness of the last embankment lift to 6 inches maximum.

As far as practicable, distribute traffic over the work during the construction of embankments so as to cover the maximum area of the surface of each layer.

Construct embankment in the dry whenever normal dewatering equipment and methods can accomplish the needed dewatering.

120-6.2.1.1 For A-3 and A-2-4 Materials with up to 15% fines:
Construct the embankment in successive layers with lifts up to a maximum compacted thickness

of 12 inches. Ensure the percentage of fines passing the No. 200 US Standard sieve in the A-2-4 material does not exceed 15%.

120-6.2.1.2 For A-1 Plastic materials (As designated in FDOT Design Standard Index 505) and A-2-4 Materials with greater than 15% fines: Construct the embankment in successive layers with lifts up to a maximum compacted thickness of 6 inches.

120-6.2.1.3 Equipment and Methods: Provide normal dewatering equipment including, but not limited to, surface pumps, sump pumps and trenching/digging machinery. Provide normal dewatering methods including, but not limited to, constructing shallow surface drainage trenches/ditches, using sand blankets, sumps and siphons.

When normal dewatering does not adequately remove the water, the Engineer may require the embankment material to be placed in the water or in low swampy ground in accordance with 120-7.2.4.

120-6.2.2 Placing in Unstable Areas: Where depositing the material in water, or in low swampy ground that will not support the weight of hauling equipment, construct the embankment by dumping successive loads in a uniformly distributed layer of a thickness not greater than necessary to support the hauling equipment while placing subsequent layers. Once sufficient material has been placed so that the hauling equipment can be supported, construct the remaining portion of the embankment in layers in accordance with the applicable provisions of 120-7.2.4 and 120-7.2.6.

120-6.2.3 Placing on Steep Slopes: When constructing an embankment on a hillside sloping more than 20 degrees from the horizontal, before starting the fill, deeply plow or cut into steps the surface of the original ground on which the embankment is to be placed.

120-6.2.4 Placing Outside Standard Minimum Slope: Where material that is unsuitable for normal embankment construction is to be used in the embankment outside the standard minimum slope (approximately one to two), place such material in layers of not more than 18 inches in thickness, measured loose. The Contractor may also place material which is suitable for normal embankment, outside such standard minimum slope, in 18 inch layers. Maintain a constant thickness for suitable material placed within and outside the standard minimum slope, unless placing in a separate operation.

120-6.3 Hydraulic Method:

120-6.3.1 Method of Placing: When the hydraulic method is used, as far as practicable, place all dredged material in its final position in the embankment by such method. Place and compact any dredged material that is re-handled, or moved and placed in its final position by any other method, as specified in 120-7.2. The Contractor may use baffles or any form of construction he may select, provided the slopes of the embankments are not steeper than indicated in the plans. Remove all timber used for temporary bulkheads or baffles from the embankment, and fill and thoroughly compact the holes thus formed. When placing fill on submerged land, construct dikes prior to beginning of dredging, and maintain the dikes throughout the dredging operation.

120-6.3.2 Excess Material: Do not use excess material placed outside the prescribed slopes, below the normal high-water level, to raise the fill. Remove only the portion of this material required for dressing the slopes.

120-6.3.3 Protection of Openings in Embankment: Leave openings in the embankments at the bridge sites. Remove any material which invades these openings or existing channels without additional compensation to provide the same depth of channel as existed before

the construction of the embankment. Do not excavate or dredge any material within 200 feet of the toe of the proposed embankment.

120-7 Compaction Requirements.

120-7.1 Moisture Content: Compact the materials at a moisture content such that the specified density can be attained. If necessary to attain the specified density, add water to the material, or lower the moisture content by manipulating the material or allowing it to dry, as is appropriate.

120-7.2 Compaction of Embankments:

120-7.2.1 Earthwork Category 1 and 2 Density Requirements: The Engineer will accept a minimum density of 95% of the maximum density as determined by AASHTO T-99 Method C for all earthwork items requiring densities.

120-7.2.2 Earthwork Category 3 Density Requirements: The Engineer will accept a minimum of 100% of the maximum density as determined by AASHTO T-99 Method C for all densities required under category 3.

Except for embankments constructed by the hydraulic method as specified in 120-6.3, and for the material placed outside the standard minimum slope as specified in 120-6.2.4, and for other areas specifically excluded herein, compact each layer of the material used in the formation of embankments to the required density stated above. Uniformly compact each layer using equipment that will achieve the required density, and as compaction operations progress, shape and manipulate each layer as necessary to ensure uniform density throughout the embankment.

120-7.2.3 Compaction Over Unstable Foundations: Where the embankment material is deposited in water or on low swampy ground, and in a layer thicker than 12 inches (as provided in 120-6.2.2), compact the top 6 inches (compacted thickness) of such layer to the density as specified in 120-9.5.

120-7.2.4 Compaction Where Plastic Material Has Been Removed: Where unsuitable material is removed and the remaining surface is of the A-4, A-5, A-6, or A-7 Soil Groups, as determined by the Engineer, compact the surface of the excavated area by rolling with a sheepfoot roller exerting a compression of at least 250 psi on the tamper feet, for the full width of the roadbed (subgrade and shoulders). Perform rolling before beginning any backfill, and continue until the roller feet do not penetrate the surface more than 1 inch. Do not perform such rolling where the remaining surface is below the normal water table and covered with water. Vary the procedure and equipment required for this operation at the discretion of the Engineer.

120-7.2.5 Compaction of Material To Be Used In Base, Pavement, or Stabilized Areas: Do not compact embankment material which will be incorporated into a pavement, base course, or stabilized subgrade, to be constructed as a part of the same Contract.

120-7.2.6 Compaction of Grassed Shoulder Areas: For the upper 6 inch layer of all shoulders which are to be grassed, since no specific density is required, compact only to the extent directed.

120-7.2.7 Compaction of Grassed Embankment Areas: For the outer layer of all embankments where plant growth will be established, do not compact. Leave this layer in a loose condition to a minimum depth of 6 inches for the subsequent seeding or planting operations.

120-7.3 Compaction of Subgrade: If the plans do not provide for stabilizing, compact the subgrade in both cuts and fills to the density specified in 120-9.5. For undisturbed soils, do

not apply density requirements where constructing narrow widening strips or paved shoulders 5 feet or less in width.

Where trenches for widening strips are not of sufficient width to permit the use of standard compaction equipment, perform compaction using vibratory rollers, trench rollers, or other type compaction equipment approved by the Engineer.

Maintain the required density until the base or pavement is placed on the subgrade.

120-8 Backfilling Around Structures and Pipe.

120-8.1 Requirements for all Structures:

120-8.1.1 General: Backfill around structures and pipe in the dry whenever normal dewatering equipment and methods can accomplish the needed dewatering.

120-8.1.2 Equipment and Methods: Provide normal dewatering equipment including, but not limited to, surface pumps, sump pumps, wellpoints and header pipe and trenching/digging machinery. Provide normal dewatering methods including, but not limited to, constructing shallow surface drainage trenches/ditches, using sand blankets, perforated pipe drains, sumps and siphons.

120-8.1.3 Backfill Materials: Backfill to the original ground surface or subgrade surface of openings made for structures, with a sufficient allowance for settlement. The Engineer may require that the material used for this backfill be obtained from a source entirely apart from the structure.

Do not allow heavy construction equipment to cross over culvert or storm sewer pipes until placing and compacting backfill material to the finished earthwork grade or to an elevation at least 4 feet above the crown of the pipe.

120-8.1.4 Use of A-7 Material: In the backfilling of trenches, A-7 material may be used from a point 12 inches above the top of the pipe up to the elevation shown on the FDOT Design Standards as the elevation for undercutting of A-7 material.

120-8.1.5 Time of Placing Backfill: Do not place backfill against any masonry or concrete abutment, wingwall, or culvert until the Engineer has given permission to do so, and in no case until the masonry or concrete has been in place seven days or until the specified 28-day compressive strength occurs.

120-8.1.6 Placement and Compaction: When the backfill material is deposited in water, compact per 120-8.2.5 and 120-8.3.4. Place the material in horizontal layers not exceeding 6 inches compacted thickness, in depth above water level, behind abutments, wingwalls and end bents or end rest piers, and around box culverts and all structures including pipe culverts. The Engineer may approve placing material in thicker lifts of no more than 12 inches compacted thickness above the soil envelope if a test section demonstrates the required density can be achieved. Approval will be based on five passing density tests over the test section consisting of a lift of backfill from structure to structure. The Engineer will identify the test section with the compaction effort and soil classification in the Agency Logbook. In case of a change in compaction effort or soil classification, construct a new test section. The Engineer reserves the right to terminate the Contractor's use of thick lift construction and have him revert to the 6 inch compacted lifts whenever it is determined that satisfactory results are not being obtained.

120-8.2 Additional Requirements for Structures Other than Pipe:

120-8.2.1 Density: Where the backfill material is deposited in water, obtain a 12 inch layer of comparatively dry material, thoroughly compacted by tamping, before the Engineer verifies layer and density requirements. Meet the requirements of the density Acceptance Criteria.

120-8.2.2 Box Culverts: For box culverts over which pavement is to be constructed, compact around the structure to an elevation not less than 12 inches above the top of the structure, using rapid-striking mechanical tampers.

120-8.2.3 Other Limited Areas: Compact in other limited areas using mechanical tampers or approved hand tampers, until the cover over the structure is at least 12 inches thick. When hand tampers are used, deposit the materials in layers not more than 4 inches thick using hand tampers suitable for this purpose with a face area of not more than 100 in². Take special precautions to prevent any wedging action against the masonry, and step or terrace the slope bounding the excavation for abutments and wingwalls if required by the Engineer.

120-8.2.4 Culverts and Piers: Backfill around culverts and piers on both sides simultaneously to approximately the same elevation.

120-8.2.5 Compaction Under Wet Conditions: Where wet conditions do not permit the use of mechanical tampers, compact using hand tampers. Use only A-3 material for the hand tamped portions of the backfill. When the backfill has reached an elevation and condition such as to make the use of the mechanical tampers practical, perform mechanical tamping in such manner and to such extent as to transfer the compaction force into the sections previously tamped by hand.

120-8.3 Additional Requirements for Pipe 15 Inches Inside Diameter or Greater:

120-8.3.1 General: Trenches for pipe may have up to four zones that must be backfilled.

Lowest Zone: The lowest zone is backfilled for deep undercuts up to within 4 inches of the bottom of the pipe.

Bedding Zone: The zone above the Lowest Zone is the Bedding Zone. Usually it will be the backfill which is the 4 inches of soil below the bottom of the pipe. When rock or other hard material has been removed to place the pipe, the Bedding Zone will be the 12 inches of soil below the bottom of the pipe.

Cover Zone: The next zone is backfill that is placed after the pipe has been laid and will be called the Cover Zone. This zone extends to 12 inches above the top of the pipe. The Cover Zone and the Bedding Zone are considered the Soil Envelope for the pipe.

Top Zone: The Top Zone extends from 12 inches above the top of the pipe to the base or final grade.

120-8.3.2 Material:

120-8.3.2.1 Lowest Zone: Backfill areas undercut below the Bedding Zone of a pipe with coarse sand, or other suitable granular material, obtained from the grading operations on the project, or a commercial material if no suitable material is available.

120-8.3.2.2 Soil Envelope: In both the Bedding Zone and the Cover Zone of the pipe, backfill with materials classified as A-1, A-2, or A-3. Material classified as A-4 may be used if the pipe is concrete pipe.

120-8.3.2.3 Top Zone: Backfill the area of the trench above the soil envelope of the pipe with materials allowed on Design Standard, Index No. 505.

120-8.3.3 Compaction:

120-8.3.3.1 Lowest Zone: Compact the soil in the Lowest Zone to approximately match the density of the soil in which the trench was cut.

120-8.3.3.2 Bedding Zone: If the trench was not undercut below the bottom of the pipe, loosen the soil in the bottom of the trench immediately below the approximate middle third of the outside diameter of the pipe.

If the trench was undercut, place the bedding material and leave it in a loose condition below the middle third of the outside diameter of the pipe. Compact the outer portions to meet the density requirements of the Acceptance Criteria. Place the material in lifts no greater than 6 inches (compacted thickness).

120-8.3.3.3 Cover Zone: Place the material in 6 inches layers (compacted thickness), evenly deposited on both sides of the pipe, and compact with mechanical tampers suitable for this purpose. Hand tamp material below the pipe haunch that cannot be reached by mechanical tampers. Meet the requirements of the density Acceptance Criteria.

120-8.3.3.4 Top Zone: Place the material in layers not to exceed 12 inches in compacted thickness. Meet the requirements of the density Acceptance Criteria.

120-8.3.4 Backfill Under Wet Conditions: Where wet conditions are such that dewatering by normal pumping methods would not be effective, the procedure outlined below may be used when specifically authorized by the Engineer in writing.

Granular material may be used below the elevation at which mechanical tampers would be effective, but only material classified as A-3. Place and compact the material using timbers or hand tampers until the backfill reaches an elevation such that it's moisture content will permit the use of mechanical tampers. When the backfill has reached such elevation, use normally acceptable backfill material. Compact the material using mechanical tampers in such manner and to such extent as to transfer the compacting force into the material previously tamped by hand.

120-9 Acceptance Program.

120-9.1 Density over 105%: When a computed dry density results in a value greater than 105% of the applicable Proctor maximum dry density, the Engineer will perform a second density test within 5 feet. If the second density results in a value greater than 105%, investigate the compaction methods, examine the applicable Maximum Density and material description. If necessary, the Engineer will test an additional sample for acceptance in accordance with AASHTO T 99, Method C.

120-9.2 Maximum Density Determination: The Engineer will determine the maximum density and optimum moisture content by sampling and testing the material in accordance with the specified test method listed in 120-9.3.

120-9.3 Density Testing Requirements: Compliance with the requirements of 120-9.5 will be determined in accordance FM 1-T 238. The in-place moisture content will be determined for each density in accordance with FM 5-507 (Determination of Moisture Content by Means of a Calcium Carbide Gas Pressure Moisture Tester), or ASTM D 4643 (Laboratory Determination of Moisture Content of Granular Soils By Use of a Microwave Oven).

120-9.4 Soil Classification: The Engineer will perform soil classification tests in accordance with AASHTO T-88, and classify soils in accordance with AASHTO M-145 (Standard Specification for Classification of Soils and Soil-Aggregate Mixtures for Highway

Construction Purposes) in order to determine compliance with embankment utilization requirements.

120-9.5 Acceptance Criteria: The Engineer will accept a minimum density in accordance with 120-7.2 with the following exceptions:

- 1) embankment constructed by the hydraulic method as specified in 120-6.3;
- 2) material placed outside the standard minimum slope as specified in 120-6.2.4;
- 3) other areas specifically excluded herein.

120-9.6 Frequency: The Engineer will conduct sampling and testing at a minimum frequency listed in the table below.

Test Name	Frequency
Maximum Density	One per soil type
Density	1 per 500' RDWY (Alt Lift)
Soil Classification	One per Maximum Density

120-10 Maintenance and Protection of Work.

While construction is in progress, maintain adequate drainage for the roadbed at all times. Maintain a shoulder at least 3 feet wide adjacent to all pavement or base construction in order to provide support for the edges.

Maintain and protect all earthwork construction throughout the life of the Contract, and take all reasonable precautions to prevent loss of material from the roadway due to the action of wind or water. Repair any slides, washouts, settlement, subsidence, or other mishap which may occur prior to final acceptance of the work. Maintain all channels excavated as a part of the Contract work against natural shoaling or other encroachments to the lines, grades, and cross-sections shown in the plans, until final acceptance of the project.

120-11 Construction.

120-11.1 Construction Tolerances: Shape the surface of the earthwork to conform to the lines, grades, and cross-sections shown in the plans. In final shaping of the surface of earthwork, maintain a tolerance of 0.3 foot above or below the plan cross-section with the following exceptions:

1. Shape the surface of shoulders to within 0.1 foot of the plan cross-section.
2. Shape the earthwork to match adjacent pavement, curb, sidewalk, structures, etc.
3. Shape the bottom of ditches so that the ditch impounds no water.
4. When the work does not include construction of base or pavement, shape the entire roadbed (shoulder point to shoulder point) to within 0.1 foot above or below the plan cross-section.

Ensure that the shoulder lines do not vary horizontally more than 0.3 foot from the true lines shown in the plans.

120-11.2 Operations Adjacent to Pavement: Carefully dress areas adjacent to pavement areas to avoid damage to such pavement. Complete grassing of shoulder areas prior to placing the final wearing course. Do not manipulate any embankment material on a pavement surface.

When shoulder dressing is underway adjacent to a pavement lane being used to maintain traffic, exercise extreme care to avoid interference with the safe movement of traffic.

120-12 Method of Measurement.

120-12.1 Excavation: Excavation will be paid for by volume, in cubic yards, calculated by the method of average end areas, unless the Engineer determines that another method of calculation will provide a more accurate result. The material will be measured in its original position by field survey or by photogrammetric means as designated by the Engineer. Measurement for payment will include the excavation of unsuitable material, lateral ditch excavation, channel excavation, and excavation for structures and pipe. Payment will not be made for excavation or embankment beyond the limits shown in the plans or authorized by the Engineer.

120-12.2 Embankment: Measurement will be made on a loose volume basis, as measured in trucks or other hauling equipment at the point of dumping on the road. Payment will not be made for embankment beyond the limits shown in the plans or authorized by the Engineer.

120-13 Basis of Payment.

120-13.1 General: Prices and payments for the work items included in this Section will be full compensation for all work described herein, including excavating, dredging, hauling, placing, and compacting; dressing the surface of the earthwork; and maintaining and protecting the complete earthwork.

120-13.2 Excavation: The total quantity of all excavation specified under this Section will be paid for at the Contract unit price for Excavation. No payment will be made for the excavation of any materials which are used for purposes other than those shown in the plans or designated by the Engineer. No payment will be made for materials excavated outside the lines and grades given by the Engineer, unless specifically authorized by the Engineer.

120-13.3 Embankment: The total quantity of embankment specified in this Section will be paid for at the Contract unit price for embankment. No payment will be made for materials which are used for purposes other than those shown in the plans or designated by the Engineer. No payment will be made for materials placed outside the lines and grades given by the Engineer.

LANDSCAPE SOIL LAYER.

(REV 3-29-17) (7-17)

SECTION 163 is deleted.

SUPERPAVE ASPHALT (OFF-SYSTEM).

(REV 1-26-15) (FA 1-29-15)

SECTION 334 SUPERPAVE ASPHALT (OFF-SYSTEM)

334-1 Description.

334-1.1 General: Construct a Superpave asphalt pavement (consisting of either Hot Mix Asphalt (HMA) or Warm Mix Asphalt (WMA)) based on the type of work specified in the

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Contract and the Asphalt Work Categories as defined below. Meet the applicable requirements for plants, equipment, and construction requirements as defined below. Use an asphalt mix, either HMA or WMA, which meets the requirements of this specification.

334-1.2 Asphalt Work Mix Categories: Construction of asphalt pavement will fall into one of the following work categories:

334-1.2.1 Asphalt Work Category 1: Includes the construction of shared use paths and miscellaneous asphalt.

334-1.2.2 Asphalt Work Category 2: Includes the construction of new asphalt turn lanes, paved shoulders and other non-mainline pavement locations.

334-1.2.3 Asphalt Work Category 3: Includes the construction of new mainline asphalt pavement lanes, milling and resurfacing.

334-1.3 Mix Types: Use the appropriate asphalt mix as shown in Table 334-1.

Table 334-1 Asphalt Mix Types			
Asphalt Work Category	Mix Types	Traffic Level	ESALs (millions)
1	Type SP-9.5	A	<0.3
2	Structural Mixes: Types SP-9.5 or SP-12.5 Friction Mixes: Types FC-9.5 or FC-12.5	B	0.3 to <3
3	Structural Mixes: Types SP-9.5 or SP-12.5 Friction Mixes: Types FC-9.5 or FC-12.5	C	≥3

A Type SP or FC mix one traffic level higher than the traffic level specified in the Contract may be substituted, at no additional cost (i.e. Traffic Level B may be substituted for Traffic Level A, etc.). Traffic levels are as defined in Section 334 of the Florida Department of Transportation's (FDOT's) Specifications.

334-1.4 Gradation Classification: The Superpave mixes are classified as fine and are defined in 334-3.2.2. The equivalent AASHTO nominal maximum aggregate size Superpave mixes are as follows:

Type SP-9.5, FC-9.5 9.5 mm

Type SP-12.5, FC-12.5 12.5 mm

334-1.5 Thickness: The total pavement thickness of the asphalt pavement will be based on a specified spread rate or plan thickness as shown in the Contract Documents. Before paving, propose a spread rate or thickness for each individual layer meeting the requirements of this specification, which when combined with other layers (as applicable) will equal the plan spread rate or thickness. When the total pavement thickness is specified as plan thickness, the plan thickness and individual layer thickness will be converted to spread rate using the following equation:

$$\text{Spread rate (lbs/yd}^2\text{)} = t \times G_{mm} \times 43.3$$

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where: t = Thickness (in.) (Plan thickness or individual layer thickness)
 G_{mm} = Maximum specific gravity from the mix design

For target purposes only, spread rate calculations shall be rounded to the nearest whole number.

334-1.5.1 Layer Thicknesses: Unless otherwise called for in the Contract Documents, the allowable layer thicknesses for asphalt mixtures are as follows:

Type SP-9.5, FC-9.5 3/4 to 1-1/2 inches

Type SP-12.5, FC-12.5 1-1/2 to 2-1/2 inches

334-1.5.2 Additional Requirements: The following requirements also apply to asphalt mixtures:

1. When construction includes the paving of adjacent shoulders (less than or equal to 5 feet wide), the layer thickness for the upper pavement layer and shoulder shall be the same and paved in a single pass, unless otherwise called for in the Contract Documents.

2. For overbuild layers, use the minimum and maximum layer thicknesses as specified above unless called for differently in the Contract Documents. On variable thickness overbuild layers, the minimum allowable thickness may be reduced by 1/2 inch, and the maximum allowable thickness will be as specified below, unless called for differently in the Contract Documents.

Type SP-9.5 3/8 to 2 inches

Type SP-12.5 1/2 to 3 inches

3. Variable thickness overbuild layers may be tapered to zero thickness provided the contract documents require a minimum of 1-1/2 inches of mix placed over the variable thickness overbuild layer.

334-1.6 Weight of Mixture: The weight of the mixture shall be determined as provided in 320-3.2 of the FDOT Specifications.

334-2 Materials.

334-2.1 Superpave Asphalt Binder: Unless specified elsewhere in the Contract or in 334-2.3.3, use a PG 67-22 asphalt binder from the FDOT's Approved Products List (APL). If the Contract calls for an alternative asphalt binder, meet the requirements of FDOT Specifications Section 336 or 916, as appropriate.

334-2.2 Aggregate: Use aggregate capable of producing a quality pavement.

For Type FC mixes, use an aggregate blend that consists of crushed granite, crushed Oolitic limestone, other crushed materials (as approved by FDOT for friction courses per Rule 14-103.005, Florida Administrative Code), or a combination of the above. Crushed limestone from the Oolitic formation may be used if it contains a minimum of 12% silica material as determined by FDOT Test Method FM 5-510 and FDOT grants approval of the source prior to its use. As an exception, mixes that contain a minimum of 60% crushed granite may either contain:

1. Up to 40% fine aggregate from other sources; or,
2. A combination of up to 20% RAP and the remaining fine aggregate from other sources.

A list of aggregates approved for use in friction courses may be available on the FDOT's State Materials Office website. The URL for obtaining this information, if available, is: <ftp://ftp.dot.state.fl.us/fdot/smo/website/sources/frictioncourse.pdf>.

334-2.3 Reclaimed Asphalt Pavement (RAP) Material:

334-2.3.1 General requirements: RAP may be used as a component of the asphalt mixture, provided the RAP meets the following requirements:

1. When using a PG 76-22 (PMA), or PG 76-22 (ARB) asphalt binder, limit the amount of RAP material used in the mix to a maximum of 20% by weight of total aggregate. As an exception, amounts greater than 20% RAP by weight of total aggregate can be used if no more than 20% by weight of total asphalt binder comes from the RAP material.

2. Provide stockpiled RAP material that is reasonably consistent in characteristics and contains no aggregate particles which are soft or conglomerates of fines.

3. Provide RAP material having a minimum average asphalt binder content of 4.0% by weight of RAP. As an exception, when using fractionated RAP, the minimum average asphalt binder content for the coarse portion of the RAP shall be 2.5% by weight of the coarse portion of the RAP. The coarse portion of the RAP shall be the portion of the RAP retained on the No. 4 sieve. The Engineer may sample the stockpile to verify that this requirement is met.

4. Use a grizzly or grid over the RAP cold bin, in-line roller crusher, screen, or other suitable means to prevent oversized RAP material from showing up in the completed recycle mixture. If oversized RAP material appears in the completed recycle mix, take the appropriate corrective action immediately. If the appropriate corrective actions are not immediately taken, stop plant operations.

334-2.3.2 Material Characterization: Assume responsibility for establishing the asphalt binder content, gradation, and bulk specific gravity (G_{sb}) of the RAP material based on a representative sampling of the material.

334-2.3.3 Asphalt Binder for Mixes with RAP: Select the appropriate asphalt binder grade based on Table 334-2. The Engineer reserves the right to change the asphalt binder type and grade during production based on characteristics of the RAP asphalt binder.

Table 334-2 Asphalt Binder Grade for Mixes Containing RAP	
Percent RAP	Asphalt Binder Grade
0 - 15	PG 67-22
16 - 30	PG 58-22
> 30	PG 52-28

334-3 Composition of Mixture.

334-3.1 General: Compose the asphalt mixture using a combination of aggregates, mineral filler, if required, and asphalt binder material. Size, grade and combine the aggregate fractions to meet the grading and physical properties of the mix design. Aggregates from various sources may be combined.

334-3.2 Mix Design:

334-3.2.1 General: Design the asphalt mixture in accordance with AASHTO R 35-12, except as noted herein. Submit the proposed mix design with supporting test data indicating compliance with all mix design criteria to the Engineer. Prior to the production of

any asphalt mixture, obtain the Engineer's conditional approval of the mix design. If required by the Engineer, send representative samples of all component materials, including asphalt binder to a laboratory designated by the Engineer for verification. As an exception to these requirements, use a currently approved FDOT Mix Design.

Warm mix technologies (additives, foaming techniques, etc.) listed on the Department's website may be used in the production of the mix. The URL for obtaining this information, is:

<http://www.dot.state.fl.us/statematerialsoffice/quality/programs/warmmixasphalt/index.shtm>.

The Engineer will consider any marked variations from original test data for a mix design or any evidence of inadequate field performance of a mix design as sufficient evidence that the properties of the mix design have changed, and at his discretion, the Engineer may no longer allow the use of the mix design.

334-3.2.2 Mixture Gradation Requirements: Combine the aggregates in proportions that will produce an asphalt mixture meeting all of the requirements defined in this specification and conform to the gradation requirements at design as defined in AASHTO M 323-12, Table 3. Aggregates from various sources may be combined.

334-3.2.2.1 Mixture Gradation Classification: Plot the combined mixture gradation on an FHWA 0.45 Power Gradation Chart. Include the Control Points from AASHTO M323-12, Table-3, as well as the Primary Control Sieve (PCS) Control Point from AASHTO M323-12, Table 4. Fine mixes are defined as having a gradation that passes above or through the primary control sieve control point.

334-3.2.3 Gyratory Compaction: Compact the design mixture in accordance with AASHTO T312-12, with the following exceptions: use the number of gyrations at N_{design} as designed in Table 334-3.

Table 334-3 Gyratory Compaction Requirements	
Traffic Level	N_{design} Number of Gyrations
A	50
B	65
C	75

334-3.2.4 Design Criteria: Meet the requirements for nominal maximum aggregate size as defined in AASHTO M323-12, as well as for relative density, VMA, VFA, and dust-to-binder ratio as specified in AASHTO M323-12, Table 6. N_{initial} and N_{maximum} requirements are not applicable.

334-3.2.5 Moisture Susceptibility: Test 4 inch specimens in accordance with FDOT Test Method FM 1-T 283. Provide a mixture having a retained tensile strength ratio of at least 0.80 and a minimum tensile strength (unconditioned) of 100 pounds per square inch. If necessary, add a liquid anti-stripping agent from the FDOT's APL or hydrated lime in order to meet these criteria.

In lieu of moisture susceptibility testing, add a liquid anti-stripping agent from the FDOT's APL. Add 0.5% liquid anti-stripping agent by weight of asphalt binder.

334-3.2.6 Additional Information: In addition to the requirements listed above, provide the following information on each mix design:

1. The design traffic level and the design number of gyrations (N_{design}).

2. The source and description of the materials to be used.
3. The FDOT source number and the FDOT product code of the aggregate components furnished from an FDOT approved source (if required).
4. The gradation and proportions of the raw materials as intended to be combined in the paving mixture. The gradation of the component materials shall be representative of the material at the time of use. Compensate for any change in aggregate gradation caused by handling and processing as necessary.
5. A single percentage of the combined mineral aggregate passing each specified sieve. Degradation of the aggregate due to processing (particularly material passing the No. 200 sieve) should be accounted for and identified.
6. The bulk specific gravity (G_{sb}) value for each individual aggregate and RAP component.
7. A single percentage of asphalt binder by weight of total mix intended to be incorporated in the completed mixture, shown to the nearest 0.1%.
8. A target temperature for the mixture at the plant (mixing temperature) and a target temperature for the mixture at the roadway (compaction temperature). Do not exceed a target temperature of 330°F for PG 76-22 (PMA) and PG 76-22 (ARB) asphalt binders, and 315°F for unmodified asphalt binders.
9. Provide the physical properties achieved at four different asphalt binder contents. One shall be at the optimum asphalt content, and must conform to all specified physical requirements.
10. The name of the mix designer.
11. The ignition oven calibration factor.
12. The warm mix technology, if used.

334-4 Process Control.

Assume full responsibility for controlling all operations and processes such that the requirements of these Specifications are met at all times. Perform any tests necessary at the plant and roadway to control the process.

334-5 General Construction Requirements.

334-5.1 Weather Limitations: Do not transport asphalt mix from the plant to the roadway unless all weather conditions are suitable for the paving operations.

334-5.2 Limitations of Paving Operations:

334-5.2.1 General: Spread the mixture only when the surface upon which it is to be placed has been previously prepared, is intact, firm, dry, clean, and the tack, with acceptable spread rate, is properly broken. Ensure all granular base materials are properly primed and all asphalt base materials are properly tacked, prior to paving.

334-5.2.2 Air Temperature: Place the mixture only when the air temperature in the shade and away from the artificial heat meets the requirements of Table 334-4. The minimum ambient temperature requirement may be reduced by 5°F when using a warm mix technology, if mutually agreed to by both the Engineer and the Contractor. Table 334-4 Ambient Air Temperature Requirements for Paving	
Layer Thickness or Asphalt Binder Type	Minimum Temperature (°F)
≤1 inch	50

Any mixture > 1 inch containing a PG asphalt binder with a high temperature designation $\geq 76^{\circ}\text{C}$	45
Any mixture > 1 inch containing a PG asphalt binder with a high temperature designation $< 76^{\circ}\text{C}$	40

334-5.3 Mix Temperature: Heat and combine the ingredients of the mix in such a manner as to produce a mixture with a temperature at the plant and at the roadway, within a range of plus or minus 30°F from the target temperature as shown on the mix design. Reject all loads outside of this range. For warm mix asphalt, the Contractor may produce the first five loads of the production day and at other times when approved by the Engineer, at a hot mix asphalt temperature not to exceed 330°F for purposes of heating the asphalt paver. For these situations, the upper tolerance of $+30^{\circ}\text{F}$ does not apply.

334-5.4 Transportation of the Mixture: Transport the mix in trucks of tight construction, which prevents the loss of material and the excessive loss of heat and previously cleaned of all foreign material. After cleaning, thinly coat the inside surface of the truck bodies with soapy water or an asphalt release agent as needed to prevent the mixture from adhering to the beds. Do not allow excess liquid to pond in the truck body. Do not use a release agent that will contaminate, degrade, or alter the characteristics of the asphalt mix or is hazardous or detrimental to the environment. Petroleum derivatives (such as diesel fuel), solvents, and any product that dissolves asphalt are prohibited. Provide each truck with a tarpaulin or other waterproof cover mounted in such a manner that it can cover the entire load when required. When in place, overlap the waterproof cover on all sides so it can be tied down. Cover each load during cool and cloudy weather and at any time it appears rain is likely during transit with a tarpaulin or waterproof cover. Cover and tie down all loads of friction course mixtures.

334-5.5 Preparation of Surfaces Prior to Paving:

334-5.5.1 Cleaning: Clean the surface of all loose and deleterious material by the use of power brooms or blowers, supplemented by hand brooming where necessary.

334-5.5.2 Patching and Leveling Courses: As shown in the plans, bring the existing surface to proper grade and cross-section by the application of patching or leveling courses.

334-5.5.3 Application over Surface Treatment: Where an asphalt mix is to be placed over a surface treatment, sweep and dispose of all loose material from the paving area.

334-5.5.4 Tack Coat: Use a rate of application as defined in Table 334-5. Control the rate of application to be within plus or minus 0.01 gallon per square yard of the target application rate. The target application rate may be adjusted by the Engineer to meet specific field conditions. Determine the rate of application as needed to control the operation. When using PG 52-28, multiply the target rate of application by 0.6.

Table 334-5 Tack Coat Application Rates		
Asphalt Mixture Type	Underlying Pavement Surface	Target Tack Rate (gal/yd ²)
Base Course, Structural Course, Dense Graded Friction Course	Newly Constructed Asphalt Layers	0.03 minimum
	Milled Surface or Oxidized and Cracked Pavement	0.06
	Concrete Pavement	0.08

334-5.6 Placing Mixture:

334-5.6.1 Alignment of Edges: With the exception of pavements placed adjacent to curb and gutter or other true edges, place all pavements by the stringline method to obtain an accurate, uniform alignment of the pavement edge. Control the unsupported pavement edge to ensure that it will not deviate more than plus or minus 1.5 inches from the stringline.

334-5.6.2 Rain and Surface Conditions: Immediately cease transportation of asphalt mixtures from the plant when rain begins at the roadway. Do not place asphalt mixtures while rain is falling, or when there is water on the surface to be covered. Once the rain has stopped and water has been removed from the tacked surface to the satisfaction of the Engineer and the temperature of the mixture caught in transit still meets the requirements as specified in 334-5.3, the Contractor may then place the mixture caught in transit.

334-5.6.3 Checking Depth of Layer: Check the depth of each layer at frequent intervals to ensure a uniform spread rate that will meet the requirements of the Contract.

334-5.6.4 Hand Work: In limited areas where the use of the spreader is impossible or impracticable, spread and finish the mixture by hand.

334-5.6.5 Spreading and Finishing: Upon arrival, dump the mixture in the approved paver, and immediately spread and strike-off the mixture to the full width required, and to such loose depth for each course that, when the work is completed, the required weight of mixture per square yard, or the specified thickness, is secured. Carry a uniform amount of mixture ahead of the screed at all times.

334-5.6.6 Thickness Control: Ensure the spread rate is within 10% of the target spread rate, as indicated in the Contract. When calculating the spread rate, use, at a minimum, an average of five truckloads of mix. When the average spread rate is beyond plus or minus 10% of the target spread rate, monitor the thickness of the pavement layer closely and adjust the construction operations.

If the Contractor fails to maintain an average spread rate within plus or minus 10% of the target spread rate for two consecutive days, the Engineer may elect to stop the construction operation at any time until the issue is resolved.

When the average spread rate for the total structural or friction course pavement thickness exceeds the target spread rate by plus or minus 50 pounds per square yard for layers greater than or equal to 2.5 inches or exceeds the target spread rate by plus or minus 25 pounds per square yard for layers less than 2.5 inches, address the unacceptable pavement in accordance with 334-5.10.4, unless an alternative approach is agreed upon by the Engineer.

334-5.7 Leveling Courses:

334-5.7.1 Patching Depressions: Before spreading any leveling course, fill all depressions in the existing surface as shown in the plans.

334-5.7.2 Spreading Leveling Courses: Place all courses of leveling with an asphalt paver or by the use of two motor graders, one being equipped with a spreader box. Other types of leveling devices may be used upon approval by the Engineer.

334-5.7.3 Rate of Application: When using Type SP-9.5 for leveling, do not allow the average spread of a layer to be less than 50 pounds per square yard or more than 75 pounds per square yard. The quantity of mix for leveling shown in the plans represents the

average for the entire project; however, the Contractor may vary the rate of application throughout the project as directed by the Engineer. When leveling in connection with base widening, the Engineer may require placing all the leveling mix prior to the widening operation.

334-5.8 Compaction: For each paving or leveling train in operation, furnish a separate set of rollers, with their operators.

When density testing for acceptance is required, select equipment, sequence, and coverage of rolling to meet the specified density requirement. Regardless of the rolling procedure used, complete the final rolling before the surface temperature of the pavement drops to the extent that effective compaction may not be achieved or the rollers begin to damage the pavement.

When density testing for acceptance is not required, use a rolling pattern approved by the Engineer.

Use hand tamps or other satisfactory means to compact areas which are inaccessible to a roller, such as areas adjacent to curbs, headers, gutters, bridges, manholes, etc.

334-5.9 Joints.

334-5.9.1 Transverse Joints: Construct smooth transverse joints, which are within 3/16 inch of a true longitudinal profile when measured with a 15 foot manual straightedge meeting the requirements of FDOT Test Method FM 5-509. These requirements are waived for transverse joints at the beginning and end of the project and at the beginning and end of bridge structures, if the deficiencies are caused by factors beyond the control of the Contractor such as no milling requirement, as determined by the Engineer. When smoothness requirements are waived, construct a reasonably smooth transitional joint.

334-5.9.2 Longitudinal Joints: For all layers of pavement except the leveling course, place each layer so that longitudinal construction joints are offset 6 to 12 inches laterally between successive layers. Do not construct longitudinal joints in the wheel paths. The Engineer may waive these requirements where offsetting is not feasible due to the sequence of construction.

334-5.10 Surface Requirements: Construct a smooth pavement with good surface texture and the proper cross slope.

334-5.10.1 Texture of the Finished Surface of Paving Layers: Produce a finished surface of uniform texture and compaction with no pulled, torn, raveled, crushed or loosened portions and free of segregation, bleeding, flushing, sand streaks, sand spots, or ripples. Correct any area of the surface that does not meet the foregoing requirements in accordance with 334-5.10.4.

In areas not defined to be a density testing exception per 334-6.4.1, obtain for the Engineer, three 6 inch diameter roadway cores at locations visually identified by the Engineer to be segregated. The Engineer will determine the density of each core in accordance with FDOT Test Method FM 1-T 166 and calculate the percent G_{mm} of the segregated area using the average G_{mb} of the roadway cores and the representative PC G_{mm} for the questionable material. If the average percent G_{mm} is less than 90.0, address the segregated area in accordance with 334-5.10.4.

334-5.10.2 Cross Slope: Construct a pavement surface with cross slopes in compliance with the requirements of the Contract Documents.

334-5.10.3 Pavement Smoothness: Construct a smooth pavement meeting the requirements of this Specification. Furnish a 15 foot manual and a 15 foot rolling straightedge meeting the requirements of FDOT Test Method FM 5-509.

334-5.10.3.1 Straightedge Testing:

334-5.10.3.1.1 Acceptance Testing: Perform straightedge testing in the outside wheel path of each lane for the final (top) layer of the pavement. Test all pavement lanes where the width is constant using a rolling straightedge and document all deficiencies on a form approved by the Engineer. Notify the Engineer of the location and time of all straightedge testing a minimum of 48 hours before beginning testing.

334-5.10.3.1.2 Final (Top) Pavement Layer: At the completion of all paving operations, straightedge the final (top) layer either behind the final roller of the paving train or as a separate operation. Address all deficiencies in excess of 3/16 inch in accordance with 334-5.10.4, unless waived by the Engineer. Retest all corrected areas.

334-5.10.3.1.3 Straightedge Exceptions: Straightedge testing will not be required in the following areas: shoulders, intersections, tapers, crossovers, sidewalks, shared use paths, parking lots and similar areas, or in the following areas when they are less than 250 feet in length: turn lanes, acceleration/deceleration lanes and side streets. The limits of the intersection will be from stop bar to stop bar for both the mainline and side streets. In the event the Engineer identifies a surface irregularity in the above areas that is determined to be objectionable, straightedge and address all deficiencies in excess of 3/8 inch in accordance with 334-5.10.4.

334-5.10.4 Correcting Unacceptable Pavement: Correct deficiencies in the pavement layer by removing and replacing the full depth of the layer, extending a minimum of 50 feet on both sides (where possible) of the defective area for the full width of the paving lane, at no additional cost.

334-6 Acceptance of the Mixture.

334-6.1 General: The asphalt mixture will be accepted based on the Asphalt Work Category as defined below:

1. Asphalt Work Category 1 – Certification by the Contractor as defined in 334-6.2.
2. Asphalt Work Category 2 – Certification and process control testing by the Contractor as defined in 334-6.3.
3. Asphalt Work Category 3 – Process control testing by the Contractor and acceptance testing by the Engineer as defined in 334-6.4.

334-6.2 Certification by the Contractor: On Asphalt Work Category 1 construction, the Engineer will accept the mix on the basis of visual inspection. Submit a Notarized Certification of Specification Compliance letter on company letterhead to the Engineer stating that all material produced and placed on the project meets the requirements of the Specifications. The Engineer may run independent tests to determine the acceptability of the material.

334-6.3 Certification and Process Control Testing by the Contractor: On Asphalt Work Category 2 construction, submit a Notarized Certification of Specification Compliance letter on company letterhead to the Engineer stating that all material produced and placed on the project meets the requirements of the Specifications, along with supporting test data documenting all process control testing as described in 334-6.3.1. If required by the Contract, utilize an Independent Laboratory as approved by the Engineer for the process control testing. The mix will also require visual acceptance by the Engineer. In addition, the Engineer may run independent tests to determine the acceptability of the material. Material failing to meet these acceptance criteria will be addressed as directed by the Engineer such as but not limited to

acceptance at reduced pay, delineation testing to determine the limits of the questionable material, removal and replacement at no cost to the agency, or performing an Engineering analysis to determine the final disposition of the material.

334-6.3.1 Process Control Sampling and Testing Requirements: Perform process control testing at a frequency of once per day. Obtain the samples in accordance with FDOT Method FM 1-T 168. Test the mixture at the plant for gradation (P₈ and P₂₀₀) and asphalt binder content (P_b). Measure the roadway density with 6 inch diameter roadway cores at a minimum frequency of once per 1,500 feet of pavement with a minimum of three cores per day.

Determine the asphalt binder content of the mixture in accordance with FDOT Method FM 5-563. Determine the gradation of the recovered aggregate in accordance with FDOT Method FM 1-T 030. Determine the roadway density in accordance with FDOT Method FM 1-T 166. The minimum roadway density will be based on the percent of the maximum specific gravity (G_{mm}) from the approved mix design. If the Contractor or Engineer suspects that the mix design G_{mm} is no longer representative of the asphalt mixture being produced, then a new G_{mm} value will be determined from plant-produced mix, in accordance with FDOT Method FM 1-T 209, with the approval of the Engineer. Roadway density testing will not be required in certain situations as described in 334-6.4.1. Assure that the asphalt binder content, gradation and density test results meet the criteria in Table 334-4.

Table 334-4 Process Control and Acceptance Values	
Characteristic	Tolerance
Asphalt Binder Content (percent)	Target \pm 0.55
Passing No. 8 Sieve (percent)	Target \pm 6.00
Passing No. 200 Sieve (percent)	Target \pm 2.00
Roadway Density (daily average)	Minimum 90.0% of G _{mm}

334-6.4 Process Control Testing by the Contractor and Acceptance Testing by the Engineer: On Asphalt Work Category 3, perform process control testing as described in 334-6.3.1. In addition, the Engineer will accept the mixture at the plant with respect to gradation (P₈ and P₂₀₀) and asphalt binder content (P_b). The mixture will be accepted on the roadway with respect to density. The Engineer will sample and test the material as described in 334-6.3.1. The Engineer will randomly obtain at least one set of samples per day. Assure that the asphalt content, gradation and density test results meet the criteria in Table 334-4. Material failing to meet these acceptance criteria will be addressed as directed by the Engineer such as but not limited to acceptance at reduced pay, delineation testing to determine the limits of the questionable material, removal and replacement at no cost to the agency, or performing an Engineering analysis to determine the final disposition of the material.

334-6.4.1 Acceptance Testing Exceptions: When the total quantity of any mix type in the project is less than 500 tons, the Engineer will accept the mix on the basis of visual inspection. The Engineer may run independent tests to determine the acceptability of the material.

Density testing for acceptance will not be performed on widening strips or shoulders with a width of 5 feet or less, variable thickness overbuild courses, leveling courses, any asphalt layer placed on subgrade (regardless of type), miscellaneous asphalt pavement, shared use paths, crossovers, or any course with a specified thickness less than 1 inch or a

specified spread rate less than 100 pounds per square yard. Density testing for acceptance will not be performed on asphalt courses placed on bridge decks or approach slabs; compact these courses in static mode only. In addition, density testing for acceptance will not be performed on the following areas when they are less than 1,000 feet continuous in length: turning lanes, acceleration lanes, deceleration lanes, shoulders, parallel parking lanes, or ramps. Density testing for acceptance will not be performed in intersections. The limits of the intersection will be from stop bar to stop bar for both the mainline and side streets. Compact these courses in accordance with a standard rolling procedure approved by the Engineer. In the event that the rolling procedure deviates from the approved procedure, placement of the mix will be stopped.

334-7 Method of Measurement.

For the work specified under this Section, the quantity to be paid for will be the weight of the mixture, in tons.

The bid price for the asphalt mix will include the cost of the liquid asphalt and the tack coat application as specified in 334-5.5.4. There will be no separate payment or unit price adjustment for the asphalt binder material in the asphalt mix.

334-8 Basis of Payment.

334-8.1 General: Price and payment will be full compensation for all the work specified under this Section.

CONCRETE (OFF-SYSTEM).

(REV 12-20-11) (FA 2-27-12)

SECTION 344 CONCRETE (OFF-SYSTEM)

344-1 Description.

344-1 General: Construct concrete based on the type of work as described in the Contract and the concrete work categories as defined below.

344-1.2 Work Categories: Construction will fall into one of the following concrete work categories:

344-1.2.1 Concrete Work Category 1: Includes the construction of sidewalks, curb and gutter, ditch and slope pavement, or other non-reinforced cast-in-place elements.

344-1.2.2 Concrete Work Category 2: Includes the construction of precast concrete including concrete barriers, traffic railing barriers, parapets, sound barriers, inlets, manholes, junction boxes, pipe culverts, storm sewers, box culverts, prestressed concrete poles, concrete bases for light poles, highway sign foundations, retaining wall systems, traffic separators or other structural precast elements.

344-1.2.3 Concrete Work Category 3: Includes the work associated with the placement and/or construction of structural cast-in-place concrete meeting the requirements of this section.

344-2 Materials.

344-2.1 General: Use concrete composed of a mixture of Portland cement, aggregates, and water, with or without chemical or mineral admixtures that meet the following requirements:

344-2.1.1 Portland Cement: Portland cements meeting the requirements of AASHTO M-85 or ASTM C-150 is required. Different brands of cement, cement of the same brand from different facilities or different types of cement shall be stored separately and shall not be mixed.

344-2.1.2 Coarse and Fine Aggregates: Aggregates shall meet ASTM C 33. Source approval by the FDOT is not required.

344-2.1.3 Water: Water shall meet the requirements of ASTM C 1602.

344-2.1.4 Chemical Admixtures: Chemical admixtures shall be listed on the FDOT Qualified Products List. Admixtures may be added at the dosage rates recommended by the manufacturer.

344-2.1.5 Pozzolans and Slag: Pozzolans and Slag shall meet the requirements of Table 344-1. Fly ash shall not include the residue resulting from the burning of municipal garbage or any other refuse with coal, or the burning of industrial or municipal garbage in incinerators.

Table 344-1		
Type or Class	Test Method	Exceptions
Class C Fly Ash	ASTM C 618	Not to be used with Types IP or IS cements.
Class F Fly Ash	ASTM C 618	Not to be used with Types IP or IS cements.
Petroleum Coke Class F	ASTM C 618	Not to be used with Types IP or IS cements.
Bark Ash Class F	ASTM C 618	Not to be used with Types IP or IS cements.
Silica Fume	ASTM C 1240	
Metakaolin	ASTM C 618	
Slag	ASTM C 989	Use only ground granulated blast-furnace slag grade 100 or 120.
Ultra Fine Fly Ash	ASTM C 618	Not to be used with Types IP or IS cements.

344-3 Production, Mixing and Delivery of Concrete.

344-3.1 Concrete Production Requirements:

344-3.1.1 Category 1: Use a concrete production facility that is certified by the National Ready Mixed Concrete Association (NRMCA) or listed on the FDOT list of non-structural concrete producers. Concrete production facilities listed on the FDOT Producers with Accepted QC Programs list for structural concrete may also be used for Category 1.

344-3.1.2 Category 2: Use a prestressed and or precast facility listed on the FDOT Producers with Accepted QC Programs for precast or prestressed concrete.

344-3.1.3 Category 3: Use a structural concrete facility listed on the FDOT Producers with Accepted QC Programs for structural concrete.

344-3.2 Classes of Concrete: Meet the requirements of Table 344-2.

Table 344-2						
Class	Minimum Strength (28 day) (psi)	Target Slump (inches)	Target Range (inches)	Air Content Range (%)	Minimum Total Cementitious Materials Content (lb/yd ³)	Maximum Water to Cementitious Material Ratio (lb/lb)
Category 1						

Class NS	2,500	N/A	N/A	N/A	N/A	N/A
Category 3						
I	3,000	3	± 1.5	1.0 to 6.0	470	0.53
I (Pavement)	3,000	2	± 1.5	1.0 to 6.0	470	0.50
II	3,400	3	± 1.5	1.0 to 6.0	470	0.53
II (Bridge Deck)	4,500	3	± 1.5	1.0 to 6.0	611	0.44
III	5,000	3	± 1.5	1.0 to 6.0	611	0.44
III (Seal)	3,000	8	± 1.5	1.0 to 6.0	611	0.53
IV	5,500	3	± 1.5	1.0 to 6.0	658	0.41
IV (Drilled Shaft)	4,000	8.5	± 1.5	0.0 to 6.0	658	0.41
V (Special)	6,000	3	± 1.5	1.0 to 6.0	752	0.37
V	6,500	3	± 1.5	1.0 to 6.0	752	0.37
VI	8,500	3	± 1.5	1.0 to 6.0	752	0.37

344-3.3 Contractors Quality Control: For Categories 1 and 2, assume full responsibility for controlling all operations and processes such that the requirements of these Specifications are met at all times.

For Category 3, furnish a Quality Control (QC) plan to identify to the Engineer how quality will be ensured at the project site. During random inspections, the Engineer will use this document to verify that the construction of the project is in agreement with the QC plan.

344-3.4 Concrete Mix Design: Before producing any Category 1 or Category 2, submit the proposed mix designs to the Engineer on a form provided by the Engineer. For Category 3, submit to the Engineer for approval, FDOT approved mix designs. Do not use concrete mix designs without prior approval of the Engineer.

Materials may be adjusted provided that the theoretical yield requirement of the approved mix design is met. Show all required original approved design mix data and batch adjustments on an Engineer approved concrete delivery ticket.

344-3.5 Delivery: For Category 3, the maximum allowable transit time of concrete is 90 minutes.

Furnish a delivery ticket on a form approved by the Engineer with each batch of concrete before unloading at the placement site. Record material quantities incorporated into the mix on the delivery ticket. Ensure that the Batchers responsible for producing the concrete signs the delivery ticket certifying that the batch was produced and delivered in accordance with these requirements. Sign the delivery ticket certifying that the concrete was placed in accordance with these requirements.

344-3.6 Placing Concrete:

344-3.6.1 Concreting in Cold Weather: Do not mix or place concrete when the air temperature at placement is below 45°F.

During the curing period, if NOAA predicts the ambient temperature to fall below 35°F for 12 hours or more or to fall below 30°F for more than 4 hours, enclose the structure in such a way that the air temperature within the enclosure can be kept above 50°F for a period of 3 days after placing the concrete or until the concrete reaches a minimum compressive strength of 1,500 psi.

Assume all risks connected with the placing and curing of concrete. Although the Engineer may give permission to place concrete, the Contractor is responsible for

satisfactory results. If the placed concrete is determined to be unsatisfactory, remove, dispose of, and replace the concrete at no expense to the Agency.

344-3.6.2 Concreting in Hot Weather: For Category 3, hot weather concreting is defined as the production, placing and curing of concrete when the concrete temperature at placing exceeds 86°F but is less than 100°F.

Unless the specified hot weather concreting measures are in effect, reject concrete exceeding 86°F at the time of placement. Regardless of special measures taken, reject concrete exceeding 100°F. Predict the concrete temperatures at placement time and implement hot weather measures to avoid production shutdown.

344-3.7 Mixers: For Category 3 concrete, do not place concrete from a truck mixer that does not have a current FDOT mixer identification card.

344-3.8 Small Quantities of Concrete: With approval of the Engineer, small quantities of concrete, less than 3 cubic yards placed in one day and less than 0.5 cubic yards placed in a single placement may be accepted using a pre-bagged mixture. The Engineer may verify that the pre-bagged mixture is prepared in accordance with the manufacturer's recommendations and will meet the requirements of this Specification.

344-3.9 Sampling and Testing:

344-3.9.1 Category 1: The Engineer may sample and test the concrete to verify its quality. The minimum 28 day compressive strength requirement for this concrete is 2,500 psi.

344-3.9.2: Category 2: No sampling and testing is required for category 2.

344-3.9.3 Category 3: The Engineer will randomly select a sample from each 200 cubic yards or one day's production to determine plastic properties and to make three 4 x 8 inch cylinders for testing by the Engineer at 28 days to ensure that the design compressive strength has been met for the class of concrete as specified in Table 344-2.

344-3.10 Records: Ensure the following records are available for review for at least 3 years after final acceptance of the project:

1. Approved concrete mix designs.
2. Materials source (delivery tickets, certifications, certified mill test reports).
3. A copy of the scale company or testing agency report showing the observed deviations from quantities checked during calibration of the scales and meters.
4. A copy of the documentation certifying the admixture weighing/measuring devices.

344-4 Acceptance of the Work.

344-4.1 Category 1 Work: Category 1 work will be accepted based on certification by the batcher and contractor on the delivery ticket.

344-4.2 Category 2 Work: Certify that the precast elements were produced by a production facility on the FDOT's list of Producers with Accepted QC Programs for precast or prestressed concrete. In addition, the producer's logo shall be stamped on the element. The producer shall not use the Florida Department of Transportation QC stamp on elements used on this project. Provide a statement of certification from the manufacturer of the precast element that the element meets the requirements of this Specification.

344-4.3 Category 3 Work: Category 3 concrete will be accepted based on the Engineer's test results for plastic properties and compressive strength requirements for the class of concrete as defined in Table 344-2. In addition, a Delivery Ticket as described in 344-3.5 will be required for acceptance of the material at the project site.

344-4.4 Small Quantities of Concrete: Category 3 concrete meeting the definition of 344-3.8 will be accepted in accordance with 344-4.3 based on test results for plastic properties and compressive strength.

STRUCTURES FOUNDATIONS.

(REV 7-24-18)

SUBARTICLE 455-5.13.1 is deleted and the following substituted:

455-5.13.1 General: All prestressed concrete test piles will have dynamic load tests utilizing both internal and external instrumentation. Drive piles of the same cross-section and type as the permanent piles shown in the Plans, in order to determine any or all of the following:

1. installation criteria for the piles.
2. nature of the soil.
3. lengths of permanent piles required for the work.
4. driving resistance characteristics of the various soil strata.
5. amount of work necessary to obtain minimum required pile penetration.
6. ability of the driving system to do the work.
7. need for point protection.

Because test piles are exploratory in nature, drive them harder (within the limits of practical refusal), deeper, and to a greater bearing resistance than required for the permanent piling. Except for test piles which are to be statically or Statnamically load tested, drive test piles their full length or to practical refusal. Splice test piles which have been driven their full length without achieving the required bearing, and proceed with further driving unless otherwise directed by the Engineer.

As a minimum, unless otherwise directed by the Engineer, do not cease driving of test piles until obtaining the required bearing capacity continuously, where the blow count is increasing, for 10 feet unless reaching practical refusal first. Drive test piles which are to be statically or Statnamically load tested as anticipated for the production piles.

When test piles attain practical refusal prior to attaining minimum penetration, perform all work necessary to attain minimum penetration and the required bearing. Where practical, use water jets to break the pile loose for further driving. Where jetting is impractical, extract the pile and install a preformed pile hole through which driving will continue. The Department will consider the work of extracting the pile to be Unforeseeable Work.

When driving test piles other than low displacement steel test piles, have preforming equipment available at the site and water jets as specified in 455-5.8 when jetting is allowed, ready for use, before the test pile driving begins.

The Engineer may elect to interrupt pile driving up to four times on each test pile, two times for up to two hours and two additional times during the next working day of initial driving to determine time effects during the driving of test piles.

SUBARTICLE 455-5.14 is deleted and the following substituted:

455-5.14 Dynamic Load Tests: The Engineer will take dynamic measurements during the driving of piles designated in the Plans or authorized by the Engineer. For concrete piles, install instruments prior to driving and assist the Engineer in monitoring all blows delivered to

the pile. For steel production piles, the Engineer may accept instrumented set-checks or redrives. The Engineer will perform dynamic load tests to evaluate any or all of the following:

1. Suitability of the Contractor's driving equipment, including hammer, capblock, pile cushion, and any proposed follower.

2. Pile capacity.

3. Pile stresses.

4. Energy transfer to pile.

5. Distribution of soil resistance.

6. Soil variables including quake and damping.

7. Hammer-pile-soil system for Wave Equation analyses.

8. Pile installation problems.

9. Other.

For concrete test piles, install internal gauges in the piles in accordance with Standard Plans, Index 455-003, and attach instruments (strain transducers to measure force and accelerometers to measure acceleration) with bolts to the pile for dynamic load testing. For steel piles, attach external instruments with bolts to the pile for dynamic load testing.

Make each follower and pile to be dynamically tested with externally attached instruments available to drill holes for attaching instrumentation and for wave speed measurements. Support the pile with timber blocks placed at appropriate intervals. Ensure that the pile is in a horizontal position and does not contact adjacent piles. Provide a sufficient clear distance at the sides of the pile for drilling the holes. The Engineer will furnish the equipment, materials, and labor necessary for drilling holes and taking the wave speed measurements. If the Engineer directs dynamic load testing, instrumented set-checks or instrumented redrives, provide the Engineer safe access to the top of the piles for drilling the attachment holes. After placing the leads provide the Engineer safe access to the piles to attach the instruments and for removal of the instruments after completing the pile driving.

The Engineer will monitor the stresses in the piles with the dynamic test equipment during driving to ensure the Contractor does not exceed the maximum allowed stresses. If necessary, add additional cushioning, replace the cushions, or reduce the hammer stroke to maintain stresses below the maximum allowable. If dynamic test equipment measurements indicate non-axial driving, immediately realign the driving system. If the cushion is compressed to the point that a change in alignment of the hammer will not correct the problem, add cushioning or change the cushion as directed by the Engineer.

Drive the pile to the required penetration and resistance or as directed by the Engineer.

When directed by the Engineer, perform instrumented set-checks or redrives. Do not use a cold diesel hammer for a set-check or redrive unless in the opinion of the Engineer it is impractical to do otherwise. Generally, warm up the hammer by driving another pile or applying at least 20 blows to a previously driven pile or to timber mats placed on the ground.

SUBARTICLE 455-12.4 is deleted and the following substituted:

455-12.4 Test Piles: Price and payment will be full compensation for all incidentals necessary to complete all the work of this item except splices, build-ups, pile extractions and preformed pile holes authorized by the Engineer and paid for under other pay items or payment

methods. The cost of all additional work not listed above necessary to ensure required penetration and attain required bearing of the test piles will be included in the price bid per foot of test pile, including driving and all other related costs. Include all costs associated with procuring, coordinating installation of and preserving Embedded Data Collector (EDC) internal gauges in all prestressed concrete test piles in the bid price for test piles.

**RIPRAP AND ARTICULATING CONCRETE BLOCK REVETMENT SYSTEMS.
(REV 5-29-15) (FA 6-8-15) (7-15)**

SUBARTICLE 530-1.2 is deleted and the following substituted:

530-1.2 Articulating Concrete Block (ACB) Revetment Systems: Furnish and install an ACB revetment system in accordance with this Section and in conformance with the lines, grades, design, and dimensions shown in the Plans. Submit vendor drawings for review and approval by the Engineer. Provide signed and sealed calculations of the block and cable sizing design for approval. Comply with the National Concrete Masonry Association's Design Manual for Articulating Concrete Block Revetment Systems, Second Edition, or the National Highway Institute, Hydraulic Engineering Circular (HEC) No. 23, Publication No. FHWA NHI 09-110. Use a minimum Factor of Safety of 1.5 and a maximum 0.5 inch for the block projection.

Blocks must be open cell and non-tapered unless otherwise stated in the Plans. Revetment cabling must be bi-directional or, for mono-directional cabling, the block installation must include a permanent mechanism within the block matrix to prevent lateral displacement of the installed blocks. Cabling must be polyester and free to move within the block.

Use only ACB revetment systems currently listed on the Department's Approved Product List (APL). Manufacturers seeking evaluation of their product shall submit an application in accordance with Section 6, and include certified test reports from an independent test laboratory certifying the ACB revetment system meets the requirements of this Section.

If the ACB revetment system is intended for use as bridge abutment protection, include the following drawings with the APL submittal:

1. At the corner transition between the front and side slopes.
2. For anchorages, geosynthetic materials, treatment of voids between adjacent blocks, limits on void size between adjacent blocks and other special details required to successfully install the ACB.
3. For areas adjacent to bridge abutments, detail mat placement around curves, connections, protection of mat ends, and splicing of mat.

RUMBLE STRIPS.

(REV 1-30-15) (FA 3-13-15) (7-15)

SECTION 546 is deleted and the following substituted:

SECTION 546 RUMBLE STRIPS

546-1 Description.

Construct rumble strips in accordance with the details shown in the Plans and Design Standards.

546-2 Materials for Raised Rumble Strips.

546-2.1 General: Construct raised rumble strips using one of the following:

546-2.1.1 Preformed Thermoplastic: Use only materials listed on the Department's Approved Product List (APL), meeting the following requirements:

Preformed Thermoplastic..... 971-1 and 971-6

Ensure that the material used can be restored to its original dimensions by using a self bonding overlay meeting these requirements. Submit a certified test report to the Engineer indicating that the materials meet all requirements specified.

546-2.1.2 Asphalt: Any plant-mixed hot bituminous asphalt mixture meeting the requirements of a job-mix formula issued by the Department, except open-graded friction course.

546-3 Application.

546-3.1 Raised Rumble Strips: Notify the Engineer before the placement of raised rumble strips. Apply raised rumble strips having well defined edges. Remove and replace any raised rumble strips not meeting the requirements of the Contract Documents at no additional cost to the Department.

Before applying raised rumble strips, remove any material that would adversely affect the bond of the raised rumble strips by a method approved by the Engineer.

Apply raised rumble strips only to dry surfaces, and only when the ambient air and surface temperature is at least 55°F and rising.

Before applying thermoplastic materials on portland cement concrete surfaces, apply a primer sealer recommended by the manufacturer.

Prior to the application of any plant-mixed hot bituminous material, apply a tack coat meeting the requirements of 300-2.3.

The mixture will be accepted on the basis of visual inspection by the Engineer with no further testing required.

546-3.2 Ground-In Rumble Strips for Shoulders: Construct ground-in rumble strips on asphalt pavement surfaces only. Before the construction of any ground-in rumble strips, demonstrate to the Engineer that the equipment to be used can achieve a depression having well defined edges and a smooth interior finish without snagging or tearing the finished pavement.

Before opening the adjacent lane to traffic, ensure that all debris generated by the grinding process is removed and disposed of daily by vacuum or a method approved by the Engineer. Do not dispose of the debris within the right of way. Do not use the debris generated by the grinding process in recycled asphalt.

Restore any pavement to the satisfaction of the Engineer at no additional cost to the Department, when ground-in rumble strips do not meet the requirements of the Contract Documents.

546-3.3 Rumble Striping for Centerlines and Edge Lines: Construct ground-in rumble strips in accordance with 546-3.2. Apply the pavement markings over the ground-in rumble strip as shown in Design Standards, Index No. 519.

546-4 Method of Measurement.

The quantity of raised rumble strips to be paid for under this Section will be the Plan quantity per set, constructed and accepted.

The quantity of ground-in shoulder rumble strips to be paid for under this Section will be the plan quantity in gross miles, constructed and accepted. No deduction will be made when the skip array is used.

The quantity of centerline and edge line ground-in rumble strips will be the length, in gross miles, constructed and accepted. No deduction will be made when the skip array is used.

546-5 Basis of Payment.

Price and payment will be full compensation for all work specified in this Section, including, all cleaning and preparing of surfaces, disposal of all debris, furnishing of all materials, application, curing and protection of all items, protection of traffic, furnishing of all tools, machines and equipment, and all incidentals necessary to complete the work. Final payment will be withheld until all deficiencies are corrected.

Payment will be made under:

Item No. 546- 71-	Raised Rumble Strip Sets - per set.
Item No. 546- 72-	Ground-In Rumble Strips - per gross mile.

HIGHWAY SIGNING.

(REV 4-1-15) (FA 4-8-15) (7-15)

SUBARTICLE 700-4.5 is deleted and the following substituted:

700-4.5 Main Power Supply and Energy Distribution Specifications: Provide a nominal single-phase power line voltage of 120/240 VAC. Ensure the DMS meets the requirements of NEMA TS 4-2005, Section 10.2.

Ensure all 120 VAC wiring has an overall nonmetallic jacket or is placed in metal conduit, pull boxes, raceways, or control cabinets and installed as required by the NEC. Do not use the sign housing as a wiring raceway or control cabinet.

Provide Type XHHW power cables sized as required by the NEC for acceptable voltage drops while supplying alternating current to the sign.

Ensure surge protective devices (SPD) are installed or incorporated in the sign system by the manufacturer to guard against lightning, transient voltage surges, and induced current. Ensure that SPDs meet or exceed the requirements of Section 620. Ensure SPDs protect all electric power and data communication connections.

SUBARTICLE 700-4.8.4 is deleted and the following substituted:

700-4.8.4 Control Cabinet: Provide a control cabinet that meets the requirements of Section 676. Ensure that the minimum height of the cabinet is 46 inches.

Provide a ground control cabinet that includes the following assemblies and components: power indicator, surge suppression on both sides of all electronics, communication interface devices, connection for a laptop computer for local control and programming, a four foot long cable to connect laptop computers, a workspace for a laptop computer, and duplex outlets.

Provide for all telephone, data, control, power, and confirmation connections between the sign and ground control box, and for any required wiring harnesses and connectors.

PROFIED THERMOPLASTIC PAVEMENT MARKINGS.

(REV 2-24-15) (FA 3-13-15) (7-15)

SECTION 701 is deleted and the following substituted:

SECTION 701 PROFIED THERMOPLASTIC PAVEMENT MARKINGS

701-1 Description.

Profied thermoplastic pavement markings consist of thermoplastic material with raised thermoplastic bumps creating a raised profile marking. Apply profied thermoplastic pavement markings to concrete pavement only, in accordance with the Contract Documents.

701-2 Materials.

Use only materials listed on the Department's Approved Product List (APL) as an approved system and meeting the following requirements:

Profied Thermoplastic..... 971-1 and 971-9
Retroreflective Elements* 971-1.7
Glass Spheres* 971-1 and 971-2

*Use retroreflective elements or glass spheres recommended by the manufacturer.

The Engineer will take random samples of the materials in accordance with the Department's Sampling, Testing and Reporting Guide schedule.

701-3 Equipment.

Use equipment capable of providing continuous, uniform heating of the pavement marking material to temperatures exceeding 390°F, mixing and agitating the material in the reservoir to provide a homogenous mixture without segregation. Use equipment that will maintain the pavement marking material in a plastic state, in all mixing and conveying parts, including the line dispensing device until applied. Use equipment which is capable of producing a consistent pattern of bumps with a longitudinal distance between bumps of approximately 30 inches center-to-center intervals. Use equipment which meets the following requirements:

1. Capable of traveling at a uniform, predetermined rate of speed, both uphill and downhill, to produce a uniform application of pavement marking material and capable of following straight lines and making normal curves in a true arc.

2. Capable of applying retroreflective elements or glass spheres to the surface of the completed pavement marking by automatic dispensers attached to the pavement marking machine such that the retroreflective elements or glass spheres are dispensed closely behind the installed line. Use retroreflective element or glass sphere dispensers equipped with an automatic cut-off control that is synchronized with the cut-off of the thermoplastic material and applies the retroreflective elements or glass spheres uniformly on the entire pavement marking surface with 50 to 60% embedment.

3. Equipped with a special kettle for uniformly heating and melting the pavement marking material. The kettle must be equipped with an automatic temperature control device and material thermometer for positive temperature control and to prevent overheating or scorching of the thermoplastic material.

4. Meets the requirements of the National Fire Protection Association (NFPA), State and Local authorities.

701-4 Application.

701-4.1 General: Remove existing pavement markings such that scars or traces of removed markings will not conflict with new pavement markings by a method approved by the Engineer. Cost for removing conflicting pavement markings during maintenance of traffic operations to be included in Maintenance of Traffic, Lump Sum.

Before applying pavement markings, remove any material that would adversely affect the bond of the pavement markings by a method approved by the Engineer.

Before applying pavement markings to any portland cement concrete surface, apply a primer, sealer or surface preparation adhesive of the type recommended by the manufacturer. Offset longitudinal lines at least 2 inches from construction joints of portland cement concrete pavement.

Apply pavement markings to dry surfaces only, and when the ambient air and surface temperature is at least 60°F and rising.

Apply pavement markings to the same tolerances in dimensions and in alignment specified in 710-5. When applying pavement marking over existing markings, ensure that no more than 2 inches on either end and not more than 1 inch on either side of the existing line is visible.

Conduct field tests in accordance with FM 5-541. Take test readings representative of the pavement marking performance. Remove and replace pavement markings not meeting the requirements of this Section at no additional cost to the Department.

701-4.2 Thickness: Apply flat base lines having a thickness of 0.100 inches or 100 mils to 0.150 inches or 150 mils, exclusive of the bumps, when measured above the pavement surface.

Measure, record and certify on a Department approved form and submit to the Engineer, the thickness of white and yellow pavement markings in accordance with FM 5-541.

The Engineer will verify the thickness of the pavement markings in accordance with FM 5-541 within 30 days of receipt of the Contractor's certification.

701-4.3 Dimensions of Raised Bumps: Apply the raised bumps with a profile such that the leading and trailing edges are sloped at a sufficient angle to create an audible and vibratory warning.

Bumps on edge line and centerline markings shall be at least 0.45 inches at the highest point of the bump, above the pavement surface, including the base line. The height shall be measured after application of drop-on retroreflective elements or glass spheres. Bumps shall have a minimum baseline coverage dimension of 2.5 inches in both transverse and longitudinal directions. The bumps may have a drainage channel, the width of each drainage channel will not exceed 1/4 inch at the bottom of the channel. The longitudinal distance between bumps shall be approximately 30 inches.

701-4.4 Retroreflectivity: Apply white and yellow profiled thermoplastic markings that will attain an initial retroreflectance of not less than 300 mcd/lx·m² and not less than 250 mcd/lx·m², respectively. Measure, record and certify on a Department approved form and submit to the Engineer, the retroreflectivity of white and yellow pavement markings in accordance with FM 5-541.

701-4.5 Color: Use pavement marking materials that meet the requirements of 971-1.

701-4.6 Retroreflective Elements or Glass Spheres: Apply retroreflective elements or glass spheres to all markings at the rates determined by the manufacturer's recommendations as identified for the APL System.

701-4.7 Loss: If more than 1% of the bumps or more than three consecutive bumps are missing or broken (less than half a bump remaining) within the first 45 days under traffic, replace all failed bumps at no expense to the Department. If more than 2% of the bumps fail within the first 45 days under traffic, the replacement period will extend an additional 45 days from the date all replacement bumps were installed. If, at the end of the additional 45 days, more the 2% of all bumps (initial and replacement) fail, replace all failed bumps at no expense to the Department. Measure, record and certify on a Department approved form and submit to the Engineer, the loss of bumps.

701-5 Contractor's Responsibility for Notification.

Notify the Engineer prior to the placement of the materials. Furnish the Engineer with the manufacturer's name and batch numbers of the thermoplastic materials and retroreflective elements or glass spheres to be used. Ensure that the batch numbers appear on the thermoplastic materials and retroreflective elements or glass spheres packages.

701-6 Protection of Newly Applied Profiled Thermoplastic Markings.

Do not allow traffic onto or permit vehicles to cross newly applied pavement markings until they are sufficiently dry. Remove and replace any portion of the pavement markings damaged by passing traffic or from any other cause, at no additional cost to the Department.

701-7 Observation Period.

Longitudinal pavement markings are subject to a 180 day observation period under normal traffic. The observation period will begin with the satisfactory completion and acceptance of the work.

The longitudinal pavement markings shall show no signs of failure due to blistering, excessive cracking, chipping, discoloration, poor adhesion to the pavement, loss of retroreflectivity or vehicular damage. The retroreflectivity shall meet the initial requirements of

701-4.4. The Department reserves the right to check the retroreflectivity anytime prior to the end of the observation period.

Replace, at no expense to the Department, any longitudinal pavement markings that do not perform satisfactorily under traffic during the 180 day observation period.

701-8 Corrections for Deficiencies.

Correct all deficiencies by removal and reapplication of a one mile section centered around the deficiency, at no cost to the Department.

701-9 Submittals.

701-9.1 Submittal Instructions: Prepare a certification of quantities, using the Department's current approved form, for each project in the Contract. Submit the certification of quantities and daily worksheets to the Engineer. The Department will not pay for any disputed items until the Engineer approves the certification of quantities.

701-9.2 Contractor's Certification of Quantities: Request payment by submitting a certification of quantities no later than Twelve O'clock noon Monday after the estimate cut-off date or as directed by the Engineer, based on the amount of work done or completed. Ensure the certification of quantities consists of the following:

1. Contract Number, FPID Number, Certification Number, Certification Date and the period that the certification represents.

2. The basis for arriving at the amount of the progress certification, less payments previously made and less any amount previously retained or withheld. The basis will include a detailed breakdown provided on the certification of items of payment.

701-10 Method of Measurement.

The quantities, authorized and acceptably applied, under this Section will be paid as follows:

1. The length, in gross miles, of 6 inch solid and 10'-30' skip lines.

2. The area, in square feet, for removal of existing markings acceptably removed.

Payment for removal of conflicting markings will be in accordance with 102-5.8. Payment for removal of non-conflicting markings will be paid separately.

The gross mile measurement will be taken as the distance from the beginning of the profiled thermoplastic line to the end of the profiled thermoplastic line and will include the unmarked gaps for skip lines. The gross mile will not include designated unmarked lengths at intersections, turn lanes, etc. Final measurement will be determined by plan dimensions or stations, subject to 9-1.3.1.

701-11 Basis of Payment.

Price and payment will be full compensation for all work specified in this Section, including, all cleaning and preparing of surfaces, furnishing of all materials, application, curing and protection of all items, protection of traffic, furnishing of all tools, machines and equipment, and all incidentals necessary to complete the work. Final payment will be withheld until all deficiencies are corrected.

Payment will be made under:

Item No. 701	Profiled Thermoplastic Pavement Markings.
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	Solid - per gross mile
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	Skip - per gross mile
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PROJECT NO.: 12087

Remove - per square foot

TWO REACTIVE COMPONENTS PAVEMENT MARKINGS.

(REV 2-24-15) (FA 3-13-15) (7-15)

SECTION 709 is deleted and the following substituted:

SECTION 709 TWO REACTIVE COMPONENTS PAVEMENT MARKINGS

709-1 Description.

Apply two reactive components pavement markings in accordance with the Contract Documents.

709-2 Materials.

Use only materials listed on the Department's Approved Product List (APL) as an approved system and meeting the following requirements:

Two Reactive Components 971-1 and 971-8

Retroreflective Elements* 971-1.7

Glass Spheres* 971-1 and 971-2

*Use only retroreflective elements or glass spheres recommended by the manufacturer.

The Engineer will take random samples of the materials in accordance with the Department's Sampling, Testing and Reporting Guide schedule.

709-3 Equipment.

Use equipment that will produce continuous uniform dimensions of pavement markings of varying widths and meets the following requirements:

1. Capable of traveling at a uniform, predetermined rate of speed, both uphill and downhill, to produce a uniform application of the two reactive components material and capable of following straight lines and making normal curves in true arcs.

2. Capable of applying retroreflective elements or glass spheres to the surface of the completed line by an automatic retroreflective element dispenser attached to the pavement marking machine such that the retroreflective elements or glass spheres are dispensed closely behind the installed line. Use a retroreflective element or glass sphere dispenser equipped with an automatic cut-off control that is synchronized with the cut-off of the material and applies the retroreflective elements or glass spheres in a manner such that the retroreflective elements or glass spheres appear uniform on the entire pavement markings surface.

3. Capable of providing the manufacturer's recommended mixing ratio between the components in a thorough and consistent manner.

709-4 Application.

709-4.1 General: Remove existing pavement markings, such that scars or traces of removed markings will not conflict with new pavement markings by a method approved by the Engineer.

Before applying pavement markings, remove any material by a method approved by the Engineer that would adversely affect the bond of the pavement markings.

Offset longitudinal lines at least 2 inches from construction joints of portland cement concrete pavement.

Apply pavement markings to dry surfaces only, and when the ambient air and surface temperature is at least 40°F and rising.

Do not apply two reactive components pavement markings when winds are sufficient to cause spray dust.

Apply two reactive components pavement markings to the same tolerances in dimensions and in alignment specified in 710-5. When applying two reactive components pavement marking over existing markings, ensure that not more than 2 inches on either end and not more than 1 inch on either side of the existing line is visible.

Apply the two reactive components pavement markings to the pavement in accordance with the manufacturer's instructions or as directed by the Engineer.

Conduct field tests in accordance with FM 5-541. Take test readings representative of the pavement marking performance. Remove and replace two reactive components pavement markings not meeting the requirements of this Section at no additional cost to the Department.

Apply all final pavement markings prior to opening the road to traffic.

709-4.2 Thickness: Apply two reactive components pavement markings to attain a minimum wet film thickness in accordance with the manufacturer's recommendations as identified on the APL.

Measure, record and certify on a Department approved form and submit to the Engineer, the thickness of white and yellow pavement markings in accordance with FM 5-541.

709-4.3 Retroreflectivity: Apply white and yellow two reactive components pavement markings that will attain an initial retroreflectivity of not less than 450 mcd/lx·m² and not less than 350 mcd/lx·m², respectively for all longitudinal lines.

Measure, record and certify on the Department approved form and submit to the Engineer, the retroreflectivity of white and yellow two reactive components pavement markings in accordance with FM 5-541.

709-4.4 Color: Use materials that meet the requirements of 971-1.

709-4.5 Retroreflective Elements or Glass Spheres: Apply retroreflective elements or glass spheres to all white and yellow two reactive components pavement markings, at the rates determined by the manufacturer's recommendations as identified on the APL.

709-5 Contractor's Responsibility for Notification.

Notify the Engineer prior to the placement of the materials. Furnish the Engineer with the manufacturer's name and batch numbers of the materials and retroreflective elements or glass spheres to be used. Ensure that the approved batch numbers appear on the materials and retroreflective elements or glass spheres packages.

709-6 Protection of Newly Applied Pavement Markings.

Do not allow traffic onto or permit vehicles to cross newly applied pavement markings until they are sufficiently dry. Remove and replace any portion of the pavement markings damaged by passing traffic or from any other cause, at no additional cost to the Department.

709-7 Observation Period.

Longitudinal pavement markings are subject to a 180 day observation period under normal traffic. The observation period shall begin with the satisfactory completion and acceptance of the work.

The longitudinal pavement markings shall show no signs of failure due to blistering, excessive cracking, chipping, discoloration, poor adhesion to the pavement, loss of retroreflectivity or vehicular damage. The retroreflectivity shall meet the initial requirements of 709-4.3. The Department reserves the right to check the retroreflectivity any time prior to the end of the observation period.

Replace, at no additional expense to the Department, any longitudinal pavement markings that do not perform satisfactorily under traffic during the 180 day observation period.

709-8 Corrections for Deficiencies.

Correct all deficiencies by removal and reapplication of a one mile section centered around the deficiency, as determined by the Engineer, at no additional cost to the Department.

709-9 Submittals.

709-9.1 Submittal Instructions: Prepare a certification of quantities, using the Department's current approved form, for each project in the Contract. Submit the certification of quantities and daily worksheets to the Engineer. The Department will not pay for any disputed items until the Engineer approves the certification of quantities.

709-9.2 Contractor's Certification of Quantities: Request payment by submitting a certification of quantities no later than Twelve O clock noon Monday after the estimate cut-off date or as directed by the Engineer, based on the amount of work done or completed. Ensure the certification of quantities consists of the following:

(a) Contract Number, FPID Number, Certification Number, Certification Date and the period that the certification represents.

(b) The basis for arriving at the amount of the progress certification, less payments previously made and less any amount previously retained or withheld. The basis will include a detailed breakdown provided on the certification of items of payment.

709-10 Method of Measurement.

The quantities, authorized and acceptably applied, under this Section will be paid as follows:

1. The length, in gross miles, of solid, 10'-30' skip, and 3'-9' dotted, 6'-10' dotted, and 2'-4' dotted lines.

2. The area, in square feet, for removal of existing markings acceptably removed. Payment for removal of conflicting markings will be in accordance with 102-5.8. Payment for removal of non-conflicting markings will be paid separately.

The gross mile measurement will be taken as the distance from the beginning of the two reactive component line to the end of the two reactive component line and will include the unmarked gaps for skip and dotted lines. The gross mile measurement will not include designated unmarked lengths at intersections, turn lanes, etc. Final measurement will be determined by plan dimensions or stations, subject to 9-1.3.1.

709-11 Basis of Payment.

Price and payment will be full compensation for all work specified in this Section, including, all cleaning and preparing of surfaces, furnishing of all materials, application, curing and protection of all items, protection of traffic, furnishing of all tools, machines and equipment, and all incidentals necessary to complete the work. Final payment will be withheld until all deficiencies are corrected.

Payment will be made under:

Item No. 709	Two Reactive Components
	Solid - per gross mile.
	Skip - per gross mile.
	Remove - per square foot.

PAINTED PAVEMENT MARKINGS.

(REV 2-24-15) (FA 3-13-15) (7-15)

SECTION 710 is deleted and the following substituted:

SECTION 710 PAINTED PAVEMENT MARKINGS

710-1 Description.

Apply painted pavement markings, in accordance with the Contract Documents.

710-2 Materials.

Use only materials listed on the Department's Approved Product List (APL) meeting the following requirements:

Raised Retroreflective Pavement Markers and Bituminous Adhesive	Section 970
Standard Paint	971-1 and 971-3
Durable Paint	971-1 and 971-4
Glass Spheres	971-1 and 971-2

The Engineer will take random samples of all material in accordance with the Department's Sampling, Testing and Reporting Guide schedule.

710-3 Equipment.

Use equipment that will produce continuous uniform dimensions of pavement markings of varying widths and meet the following requirements:

1. Capable of traveling at a uniform, predetermined rate of speed, both uphill and downhill, in order to produce a uniform application of paint and capable of following straight lines and making normal curves in a true arc.

2. Capable of applying glass spheres to the surface of the completed line by an automatic sphere dispenser attached to the pavement marking machine such that the glass spheres are dispensed closely behind the installed line. Use a glass spheres dispenser equipped with an automatic cut-off control that is synchronized with the cut-off of the paint and applies the

glass spheres in a manner such that the spheres appear uniform on the entire pavement markings surface.

3. Capable of spraying the paint to the required thickness and width without thinning of the paint. Equip the paint tank with nozzles equipped with cut-off valves, which will apply broken or skip lines automatically.

710-4 Application.

710-4.1 General: Remove existing pavement markings, such that scars or traces of removed markings will not conflict with new pavement markings, by a method approved by the Engineer.

Before applying pavement markings, remove any material that would adversely affect the bond of the pavement markings by a method approved by the Engineer.

Apply standard paint to dry surfaces only, and when the ambient air and surface temperature is at least 40°F and rising.

Apply durable paint to dry surfaces only. Do not apply durable paint when the ambient air and surface temperature is below 50°F, relative humidity is above 80% or when the dew point is within 5°F of the ambient air temperature.

Do not apply painted pavement markings when winds are sufficient to cause spray dust.

Apply painted pavement markings, having well defined edges, over existing pavement markings such that not more than 2 inches on either end and not more than 1 inch on either side is visible. When stencils are used to apply symbols and messages, the areas covered by the stencil reinforcing will not be required to be painted.

Mix the paint thoroughly prior to pouring into the painting machine. Apply paint to the pavement by spray or other means approved by the Engineer.

Conduct field testing in accordance with FM 5-541. Remove and replace painted pavement markings not meeting the requirements of this Section at no additional cost to the Department.

Apply all pavement markings prior to opening the road to traffic.

710-4.1.1 Final Surface: When permanent pavement markings are included in the Plans, such as thermoplastic, tape, etc., the painted pavement markings (final surface) will include one application of standard paint and one application of retroreflective pavement markers applied to the final newly constructed surface prior to the final permanent markings. If no permanent pavement markings, such as thermoplastic, tape etc., are included in the Plans, the painted pavement markings (final surface) will include two applications of standard paint and one application of retroreflective pavement markers applied to the final surface. Wait at least 14 days after the first application to apply the second application of paint. Second application must be applied prior to final acceptance of the project.

Apply all retroreflective pavement markers per the requirements of Section 706.

710-4.2 Thickness: Apply standard paint to attain a minimum wet film thickness in accordance with the manufacturer's recommendations. Apply durable paint to attain a minimum wet film thickness of 0.025 inches or 25 mils. Measure, record and certify on a Department approved form and submit to the Engineer, the thickness of white and yellow durable paint pavement markings in accordance with FM 5-541.

710-4.3 Retroreflectivity: Apply white and yellow standard paint that will attain an initial retroreflectance of not less than $300 \text{ mcd/lx}\cdot\text{m}^2$ and not less than $250 \text{ mcd/lx}\cdot\text{m}^2$, respectively. Apply white and yellow durable paint that will attain an initial retroreflectance of not less than $450 \text{ mcd/lx}\cdot\text{m}^2$ and not less than $300 \text{ mcd/lx}\cdot\text{m}^2$, respectively.

Measure, record and certify on a Department approved form and submit to the Engineer, the retroreflectivity of white and yellow pavement markings in accordance with FM 5-541.

The Department reserves the right to test the markings within three days of receipt of the Contractor's certification. Failure to afford the Department opportunity to test the markings will result in non-payment. The test readings should be representative of the Contractor's pavement marking performance. If the retroreflectivity values measure below values shown above, reapply the pavement marking at no additional cost to the Department.

For standard paint, ensure that the minimum retroreflectance of white and yellow pavement markings are not less than 150 mcd/lx m^2 . If the retroreflectivity values for standard paint fall below the 150 mcd/lx m^2 value within 180 days of initial application, the pavement marking will be reapplied at the Contractor's expense. If the retroreflectivity values for durable paint fall below the initial values of 450 mcd/lx m^2 value for white and 300 mcd/lx m^2 for yellow within 180 days of initial application, the pavement marking will be reapplied at the Contractor's expense.

710-4.4 Color: Use paint material that meets the requirements of 971-1.

710-4.5 Glass Spheres: Apply glass spheres on all pavement markings immediately and uniformly following the paint application. The rate of application shall be based on the manufacturer's recommendation.

For longitudinal durable paint markings, apply a double drop of Type 1 and Type 3 glass spheres. For transverse durable paint markings, apply a single drop of Type 3 glass spheres.

The rate of application shall be based on the manufacturer's recommendation.

710-5 Tolerances in Dimensions and in Alignment.

Establish tack points at appropriate intervals for use in aligning pavement markings, and set a stringline from such points to achieve accuracy.

710-5.1 Dimensions:

710-5.1.1 Longitudinal Lines: Apply painted skip line segments with no more than plus or minus 12 inches variance, so that over-tolerance and under-tolerance lengths between skip line and the gap will approximately balance. Apply longitudinal lines at least 2 inches from construction joints of portland cement concrete pavement.

710-5.1.2 Transverse Markings, Gore Markings, Arrows, and Messages: Apply paint in multiple passes when the marking cannot be completed in one pass, with an overall line width allowable tolerance of plus or minus 1 inch.

710-5.1.3 Contrast Lines: Use black paint to provide contrast on concrete or light asphalt pavement, when specified by the Engineer. Apply black paint in 10 foot segments following each longitudinal skip line.

710-5.2 Alignment: Apply painted pavement markings that will not deviate more than 1 inch from the stringline on tangents and curves one degree or less. Apply painted pavement markings that will not deviate more than 2 inches from the stringline on curves greater than one

degree. Apply painted edge markings uniformly, not less than 2 inches or more than 4 inches from the edge of pavement, without noticeable breaks or deviations in alignment or width.

Remove and replace at no additional cost to the Department, pavement markings that deviate more than the above stated requirements.

710-5.3 Correction Rates: Make corrections of variations in width at a maximum rate of 10 feet for each 0.5 inch of correction. Make corrections of variations in alignment at a maximum rate of 25 feet for each 1 inch of correction, to return to the stringline.

710-6 Contractor's Responsibility for Notification.

Notify the Engineer prior to the placement of the materials. Furnish the Engineer with the manufacturer's name and batch numbers of the materials and glass spheres to be used. Ensure that the approved batch numbers appear on the materials and glass spheres packages.

710-7 Protection of Newly Applied Pavement Markings.

Do not allow traffic onto or permit vehicles to cross newly applied pavement markings until they are sufficiently dry. Remove and replace any portion of the pavement markings damaged by passing traffic or from any other cause, at no additional cost to the Department.

710-8 Corrections for Deficiencies to Applied Painted Pavement Markings.

Reapply a 1.0 mile section, centered around any deficiency, at no additional cost to the Department.

710-9 Submittals.

710-9.1 Submittal Instructions: Prepare a certification of quantities, using the Department's current approved form, for each project in the Contract. Submit the certification of quantities and daily worksheets to the Engineer. The Department will not pay for any disputed items until the Engineer approves the certification of quantities.

710-9.2 Contractor's Certification of Quantities: Request payment by submitting a certification of quantities no later than Twelve O'clock noon Monday after the estimate cut-off date or as directed by the Engineer, based on the amount of work done or completed. Ensure the certification of quantities consists of the following:

1. Contract Number, FPID Number, Certification Number, Certification Date and the period that the certification represents.
2. The basis for arriving at the amount of the progress certification, less payments previously made and less any amount previously retained or withheld. The basis will include a detailed breakdown provided on the certification of items of payment.

710-10 Method of Measurement.

The quantities, authorized and acceptably applied, under this Section will be paid as follows:

1. The length, in gross miles, of solid, 10'-30' skip, 3'-9' dotted, 6'-10' dotted, and 2'-4' dotted lines.
2. The length, in linear feet, of transverse lines, diagonal lines, chevrons, and parking spaces.
3. The number of pavement messages, symbols, and arrows. Each arrow is paid as a complete marking, regardless of the number of "points" or directions.
4. Lump Sum, as specified in 710-4.1.1 (final surface).

5. The area, in square feet, for removal of existing markings acceptably removed. Payment for removal of conflicting markings will be in accordance with 102-5.8. Payment for removal of non-conflicting markings will be paid separately.

The gross mile measurement will be taken as the distance from the beginning of the painted line to the end of the painted line and will include the unmarked gaps for skip and dotted lines. The gross mile measurement will not include designated unmarked lengths at intersections, turn lanes, etc. Final measurement will be determined by plan dimensions or stations, subject to 9-1.3.1.

710-11 Basis of Payment.

710-11.1 General: Price and payment will be full compensation for all work specified in this Section, including all cleaning and preparing of surfaces, furnishing of all materials, application, curing and protection of all items, protection of traffic, furnishing of all tools, machines and equipment, and all incidentals necessary to complete the work. Final payment will be withheld until all deficiencies are corrected.

710-11.2 Lump Sum Payment: Price and payment for painted pavement markings (final surface) will be full compensation for all applications of painted pavement markings to the final surface, and one application of retroreflective pavement markers applied to the final surface in accordance with Section 706.

Payment will be made under:

Item No. 710	Painted Pavement Markings. Solid - per gross mile. Solid - per linear foot. Skip - per gross mile. Dotted - per gross mile. Message or Symbol -each. Arrows - each. Yield Line - per linear foot. Island Nose - per square foot.
Item No. 710-90	Painted Pavement Markings (Final Surface) - lump sum.

PAINTED PAVEMENT MARKINGS.

(REV 5-26-17) (FA 8-7-17) (1-18)

SUBARTICLE 710-4.1.1 is deleted and the following substituted:

710-4.1.1 Painted Pavement Markings (Final Surface): On concrete surfaces or newly constructed asphalt without rumble striping, the painted pavement markings (final surface) will include one application of standard paint and one application of Class B retroreflective pavement markers applied to the final surface.

On newly constructed asphalt with rumble striping, apply two applications of standard paint and one application of Class B retroreflective pavement markers. Additionally, for center line rumble striping installations, install Class D retroreflective pavement markers with the first application of standard paint. Remove Class D markers prior to grinding, and install

Class B retroreflective pavement markers in an unground area after grinding. The second application of standard paint must be applied within 24 hours of each day's grinding operation.

Do not apply final surface paint for bicycle arrows or bicycle messages, 24 inch longitudinal bars in special emphasis crosswalks, or route shields where preformed thermoplastic will be applied.

Install all retroreflective pavement markers in accordance with Design Standards, Index Nos. 17352 and 17345, prior to opening the road to traffic.

Temporary retroreflective pavement markers must meet the requirements of Section 102.

Permanent retroreflective pavement markers must meet the requirements of Section 706.

THERMOPLASTIC PAVEMENT MARKINGS.

(REV 2-24-15) (FA 3-13-15) (7-15)

SECTION 711 is deleted and the following substituted:

SECTION 711 THERMOPLASTIC PAVEMENT MARKINGS

711-1 Description.

Apply new thermoplastic pavement markings, or refurbish existing thermoplastic pavement markings, in accordance with the Contract Documents.

711-2 Materials.

Use only materials listed on the Department's Approved Product List (APL) meeting the following requirements.

Standard and Refurbishment Thermoplastic.....	
.....	971-1 and 971-5
Preformed Thermoplastic.....	971-1 and 971-6
Glass Spheres	971-1 and 971-2

Use sand materials meeting the requirements of 971-5.4.

The Engineer will take random samples of all material in accordance with the Department's Sampling, Testing and Reporting Guide schedule.

711-3 Equipment.

Use equipment capable of providing continuous, uniform heating of the pavement marking material to temperatures exceeding 390°F, mixing and agitation of the material in the reservoir to provide a homogeneous mixture without segregation. Use equipment that will maintain the pavement marking material in a plastic state, in all mixing and conveying parts, including the line dispensing device until applied. Use equipment which can produce varying width lines and which meets the following requirements:

1. Capable of traveling at a uniform, predetermined rate of speed, both uphill and downhill, to produce a uniform application of pavement marking material and capable of following straight lines and making normal curves in a true arc.

2. Capable of applying glass spheres to the surface of the completed pavement marking by a double drop application for standard thermoplastic pavement markings and a single drop application for recapping and refurbishment thermoplastic pavement markings. The bead dispenser for the first bead drop shall be attached to the pavement marking machine in such a manner that the beads are dispensed closely behind the installed line. The second bead dispenser bead shall be attached to the pavement marking machine in such a manner that the beads are dispensed immediately after the first bead drop application. Use glass spheres dispensers equipped with an automatic cut-off control that is synchronized with the cut-off of the thermoplastic material and applies the glass spheres uniformly on the entire pavement markings surface with 50 to 60% embedment.

3. Equipped with a special kettle for uniformly heating and melting the pavement marking material. The kettle must be equipped with an automatic temperature control device and material thermometer for positive temperature control and to prevent overheating or scorching of the thermoplastic material.

4. Meet the requirements of the National Fire Protection Association, state, and local authorities.

711-4 Application.

711-4.1 General: Remove existing pavement markings such that scars or traces of removed markings will not conflict with new pavement markings by a method approved by the Engineer. Cost for removing conflicting pavement markings during maintenance of traffic operations to be included in Maintenance of Traffic, Lump Sum.

Before applying pavement markings, remove any material that would adversely affect the bond of the pavement markings by a method approved by the Engineer.

Before applying pavement markings to any portland cement concrete surface, apply a primer, sealer, or surface preparation adhesive of the type recommended by the manufacturer. Offset longitudinal lines at least 2 inches from any longitudinal joints of portland cement concrete pavement.

Apply pavement markings to dry surfaces only, and when the ambient air and surface temperature is at least 50°F and rising for asphalt surfaces and 60°F and rising for concrete surfaces.

Apply pavement markings to the same tolerances in dimensions and in alignment specified in 710-5. When applying pavement markings over existing markings, ensure that no more than 2 inches on either end and not more than 1 inch on either side of the existing line is visible.

Apply thermoplastic material to the pavement by extrusion or other means approved by the Engineer.

Conduct field tests in accordance with FM 5-541. Take test readings representative of the pavement marking performance. Remove and replace pavement markings not meeting the requirements of this Section at no additional cost to the Department.

Wait at least 14 days after constructing the final asphalt surface course to place thermoplastic pavement markings. Provide temporary pavement markings during the interim period prior to opening the road to traffic.

711-4.1.1 Preformed Thermoplastic: Apply markings to dry surfaces only and when ambient air temperature is at least 32°F. Prior to installation, follow the manufacturer's recommendations for pre-heating.

711-4.2 Thickness:

711-4.2.1 Standard Thermoplastic Markings: Apply or recap standard thermoplastic pavement markings for longitudinal lines to attain a minimum thickness of 0.10 inch or 100 mils and a maximum thickness 0.15 inch or 150 mils maximum thickness, when measured above the pavement surface.

All chevrons, diagonal and transverse lines, messages, symbols, and arrows, wherever located, will have a thickness of 0.09 inch or 90 mils to 0.12 inch or 120 mils when measured above the pavement surface.

Measure, record and certify on Department approved form and submit to the Engineer, the thickness of white and yellow pavement markings in accordance with FM 5-541.

The Engineer will verify the thickness of the pavement markings in accordance with FM 5-541 within 30 days of receipt of the Contractor's certification.

711-4.2.2 Refurbishment Thermoplastic Markings: Apply a minimum of 0.06 inch or 60 mils of thermoplastic material. Ensure that the combination of the existing marking and the overlay after application of glass spheres does not exceed the maximum thickness of 0.150 inch or 150 mils for all lines.

Measure, record and certify on Department approved form and submit to the Engineer, the thickness of white and yellow pavement markings in accordance with FM 5-541.

The Engineer will verify the thickness of the pavement markings in accordance with FM 5-541 within 30 days of receipt of the Contractor's certification.

711-4.2.3 Preformed Thermoplastic: Apply 0.125 inch or 125 mils of preformed thermoplastic material.

Measure, record and certify on Department approved form and submit to the Engineer, the thickness of the pavement markings in accordance with FM 5-541.

711-4.3 Retroreflectivity: Apply white and yellow pavement markings that will attain an initial retroreflectivity of not less than 450 mcd/lx·m² and not less than 350 mcd/lx·m², respectively for all longitudinal lines. All chevrons, diagonal lines, stop lines, messages, symbols, and arrows will attain an initial retroreflectivity of not less than 300 mcd/lx·m² and 250 mcd/lx·m² for white and yellow respectively. All crosswalks and bicycle markings shall attain an initial retroreflectivity of not less than 275 mcd/lx·m².

Measure, record and certify on Department approved form and submit to the Engineer, the retroreflectivity of white and yellow pavement markings in accordance with FM 5-541.

711-4.4 Glass Spheres:

711-4.4.1 Longitudinal Lines: For standard thermoplastic markings, apply the first drop of Type 4 or larger glass spheres immediately followed by the second drop of Type 1 glass spheres. For refurbishment thermoplastic markings, apply a single drop of Type 3 glass spheres. Apply reflective glass spheres to all markings at the rates determined by the manufacturer's recommendations.

711-4.4.2 Chevrons, Diagonal and Transverse Lines, Messages, Symbols, and Arrows: For standard or refurbishment thermoplastic markings, apply a single drop of Type 1 glass spheres. Apply retroreflective glass spheres to all markings at the rates determined by the manufacturer's recommendations.

Apply a mixture consisting of 50% glass spheres and 50% sharp silica sand to all standard thermoplastic crosswalk lines at the rates determined by the manufacturer's recommendations.

711-4.4.3 Preformed Markings: These markings are factory supplied with glass spheres and skid resistant material. No additional glass spheres or skid resistant material should be applied during installation.

711-5 Contractor's Responsibility for Notification.

Notify the Engineer prior to the placement of the materials. Furnish the Engineer with the manufacturer's name and batch numbers of the thermoplastic materials and glass spheres to be used. Ensure that the approved batch numbers appear on the thermoplastic materials and glass spheres packages.

711-6 Protection of Newly Applied Thermoplastic Pavement Markings.

Do not allow traffic onto or permit vehicles to cross newly applied pavement markings until they are sufficiently dry. Remove and replace any portion of the pavement markings damaged by passing traffic or from any other cause, at no additional cost to the Department.

711-7 Observation Period.

Longitudinal pavement markings are subject to a 180 day observation period under normal traffic. The observation period shall begin with the satisfactory completion and acceptance of the work.

The longitudinal pavement markings shall show no signs of failure due to blistering, excessive cracking, chipping, discoloration, poor adhesion to the pavement, loss of retroreflectivity or vehicular damage. The retroreflectivity shall meet the initial requirements of 711-4.3. The Department reserves the right to check the retroreflectivity any time prior to the end of the observation period.

Replace, at no additional expense to the Department, any longitudinal pavement markings that do not perform satisfactorily under traffic during the 180 day observation period.

711-8 Corrections for Deficiencies.

Recapping applies to conditions where additional pavement marking material is applied to new or refurbished pavement markings to correct a thickness deficiency. Correct deficiencies by recapping or removal and reapplication of a 1 mile section centered around the deficiency, as determined by the Engineer, at no additional cost to the Department.

711-9 Submittals.

711-9.1 Submittal Instructions: Prepare a certification of quantities, using the Department's current approved form, for each project in the Contract. Submit the certification of quantities and daily worksheets to the Engineer. The Department will not pay for any disputed items until the Engineer approves the certification of quantities.

711-9.2 Contractor's Certification of Quantities: Request payment by submitting a certification of quantities no later than Twelve O clock noon Monday after the estimate cut-off date or as directed by the Engineer, based on the amount of work done or completed. Ensure the certification of quantities consists of the following:

1. Contract Number, FPID Number, Certification Number, Certification Date and the period that the certification represents.

2. The basis for arriving at the amount of the progress certification, less payments previously made and less any amount previously retained or withheld. The basis will include a detailed breakdown provided on the certification of items of payment.

711-10 Method of Measurement.

The quantities, authorized and acceptably applied, under this Section will be paid as follows:

1. The length, in gross miles, of solid, 10'-30' skip, 3'-9' dotted, 6'-10' dotted, and 2'-4' dotted lines.

2. The length, in linear feet, of transverse lines, diagonal lines, chevrons, and parking spaces.

3. The number of pavement messages, symbols, and arrows. Each arrow is paid as a complete marking, regardless of the number of "points" or directions.

4. The area, in square feet, for removal of existing markings acceptably removed. Payment for removal of conflicting markings will be in accordance with 102-5.8. Payment for removal of non-conflicting markings will be paid separately.

The gross mile measurement will be taken as the distance from the beginning of the thermoplastic line to the end of the thermoplastic line and will include the unmarked gaps for skip and dotted lines. The gross mile measurement will not include designated unmarked lengths at intersections, turn lanes, etc. Final measurement will be determined by plan dimensions or stations, subject to 9-1.3.1.

711-11 Basis of Payment.

Prices and payments will be full compensation for all work specified in this Section, including, all cleaning and preparing of surfaces, furnishing of all materials, application, curing and protection of all items, protection of traffic, furnishing of all tools, machines and equipment, and all incidentals necessary to complete the work. Final payment will be withheld until all deficiencies are corrected.

Payment will be made under:

Item No. 711	Thermoplastic Pavement Markings
	Solid - per gross mile.
	Solid - per linear foot.
	Skip - per gross mile.
	Dotted - per gross mile.
	Message or Symbol - each.
	Arrows - each.
	Yield Line - per linear foot.
	Remove - per square foot.

PERMANENT TAPE PAVEMENT MARKINGS.

(REV 2-24-15) (FA 3-13-15) (7-15)

Section 713 is deleted and the following substituted:

SECTION 713 PERMANENT TAPE PAVEMENT MARKINGS

713-1 Description.

Apply permanent tape pavement markings, in accordance with the Contract documents.

713-2 Materials.

Use only materials listed on the Department's Approved Product List (APL) meeting the following requirements:

Permanent Tape 971-1 and 971-7

The Engineer will take random samples of all material in accordance with the Department's Sampling, Testing and Reporting Guide schedule.

713-3 Equipment.

Use equipment that is mobile and maneuverable to the extent that straight lines can be followed and normal curves can be made in a true arc.

Ensure the mechanical applicator is equipped with film cut-off device and a measuring device that automatically and accumulatively measures the length of each line placed with an accuracy tolerance of plus or minus 2 percent. Tape may be placed by hand on short sections, 500 feet or less if the tolerances in dimensions and in alignment specified in 710-5 are met.

713-4 Application.

713-4.1 General: Remove existing pavement markings, such that scars or traces of removed markings will not conflict with new pavement markings by a method approved by the Engineer.

Before applying permanent tape, remove any material by a method approved by the Engineer that would adversely affect the bond of the tape.

Apply a primer, sealer or surface preparation adhesive of the type recommended by the manufacturer. Ensure the permanent tape adheres to the pavement surface.

Offset longitudinal lines at least 2 inches from construction joints on portland cement concrete pavement.

Apply permanent tape to dry surfaces only, and when the ambient air and surface temperature is at least 55°F and rising.

Apply permanent tape to the same tolerances in dimensions and in alignment specified in 710-5.

Apply permanent tape to the pavement by means approved by the Engineer.

Conduct field testing in accordance with FM 5-541. Take test readings representative of the pavement marking performance. Remove and replace permanent tape not meeting the requirements of this Section at no additional cost to the Department.

Apply all pavement markings prior to opening the road to traffic.

713-4.2 Thickness: Apply permanent tape pavement markings that have a thickness as designated on the APL for the particular product used.

Measure, record and certify on a Department approved form and submit to the Engineer, the thickness of white and yellow pavement markings in accordance with FM 5-541.

713-4.3 Retroreflectivity: Apply white and yellow pavement markings that will attain an initial retroreflectivity of not less than 450 mcd/lx·m² for white markings and not less than 350 mcd/lx·m² for yellow markings. Black pavement markings must have a retroreflectance of less than 5 mcd/lx m².

Measure, record and certify on Department approved form and submit to the Engineer, the retroreflectivity of white and yellow pavement markings in accordance with FM 5-541.

713-4.4 Color: Use material meeting the requirements of 971-1.

713-5 Contractor's Responsibility for Notification.

Notify the Engineer prior to the placement of the material. Furnish the Engineer with the manufacturer's name and batch numbers of the material to be used. Ensure that the approved batch numbers appear on the material packages.

713-6 Protection of Newly Applied Pavement Markings.

Do not allow traffic onto or permit vehicles to cross newly applied pavement markings until they are sufficiently bonded. Remove and replace any portion of the pavement markings damaged by passing traffic or from any other cause, at no additional cost to the Department.

713-7 Observation Period.

Longitudinal pavement markings are subject to a 180 day observation period under normal traffic. The observation period shall begin with the satisfactory completion and acceptance of the work.

The longitudinal pavement markings shall show no signs of failure due to blistering, excessive cracking, chipping, discoloration, poor adhesion to the pavement, loss of retroreflectivity or vehicular damage. The retroreflectivity shall meet the initial requirements of 713-4.3. The Department reserves the right to check the retroreflectivity any time prior to the end of the observation period.

Replace, at no additional expense to the Department, any longitudinal pavement markings that do not perform satisfactorily under traffic during the 180 day observation period.

713-8 Corrections for Deficiencies.

Correct all deficiencies by removal and reapplication of a one mile section centered around the deficiency, as determined by the Engineer, at no additional cost to the Department.

713-9 Submittals.

713-9.1 Submittal Instructions: Prepare a certification of quantities, using the Department's current approved form, for each project in the Contract. Submit the certification of quantities and daily worksheets to the Engineer. The Department will not pay for any disputed items until the Engineer approves the certification of quantities.

713-9.2 Contractor's Certification of Quantities: Request payment by submitting a certification of quantities no later than Twelve O clock noon Monday after the estimate cut-off date or as directed by the Engineer, based on the amount of work done or completed. Ensure the certification of quantities consists of the following:

1. Contract Number, FPID Number, Certification Number, Certification Date and the period that the certification represents.

2. The basis for arriving at the amount of the progress certification, less payments previously made and less any amount previously retained or withheld. The basis will include a detailed breakdown provided on the certification of items of payment.

713-10 Method of Measurement.

The quantities, authorized and acceptably applied, under this Section will be paid as follows:

1. The length, in gross miles, of 6 inch solid, 10'-30' skip, and 3'-9' dotted lines.

2. The area, in square feet, for removal of existing markings acceptably removed.

Payment for removal of conflicting markings will be in accordance with 102-5.8. Payment for removal of non-conflicting markings will be paid separately.

The gross mile measurement will be taken as the distance from the beginning of the permanent tape line to the end of the permanent tape line and will include the unmarked gaps for skip and dotted lines. The gross mile measurement will not include designated unmarked lengths at intersections, turn lanes, etc. Final measurement will be determined by plan dimensions or stations, subject to 9-1.3.1.

713-11 Basis of Payment.

Price and payment will be full compensation for all work specified in this Section, including, all cleaning and preparing of surfaces, furnishing of all materials, application, curing and protection of all items, protection of traffic, furnishing of all tools, machines and equipment, and all incidentals necessary to complete the work. Final payment will be withheld until all deficiencies are corrected.

Payment will be made under:

Item No. 713-1 - Permanent Tape.

Solid – per gross mile.

Skip – per gross mile.

Dotted – per gross mile.

Remove – per square foot.

BITUMINOUS MATERIALS.

(REV 2-16-16) (FA 3-30-16) (7-16)

SECTION 916 is deleted and the following substituted:

SECTION 916 BITUMINOUS MATERIALS

916-1 General.

All products supplied under this Specification shall be one of the products included on the Approved Product List (APL). Producers seeking evaluation of a product for inclusion on the APL shall submit an application in accordance with Section 6.

For liquid anti-strip agents, in addition to the above, producers shall include a report of test results from an independent laboratory confirming the material meets the requirements of this section. In lieu of submitting test results from an independent laboratory, the Department will evaluate the material. For each liquid anti-strip agent, the producer will submit one pint of a representative sample of liquid anti-strip agent to the State Materials Office when submitting the APL application to the Department's Product Evaluation Section.

Any marked variation from the original test values for a material below the established limits or evidence of inadequate quality control or field performance of a material will be considered sufficient evidence that the properties of the material have changed, and the material will be removed from the APL.

916-2 Superpave PG Asphalt Binder:

916-2.1 Requirements: Superpave Performance Graded (PG) asphalt binders, identified as PG 52-28, PG 58-22, PG 67-22, polymer modified asphalt (PMA) binders, PG 76-22 (PMA) and PG 82-22 (PMA), and asphalt rubber binders (ARB), PG 76-22 (ARB), shall meet the requirements of 916-2 and AASHTO M 332-14. All PG asphalt binders shall meet the following additional requirements:

1. The intermediate test temperature at 10 rad/sec. for the Dynamic Shear Rheometer (DSR) test (AASHTO T 315-12) shall be 26.5°C for PG grades PG 67 and higher.
2. An additional high temperature grade of PG 67 is added for which the high test temperature at 10 rad/sec for the DSR test (AASHTO T 315-12) shall be 67°C.
3. All PG asphalt binders having a high temperature designation of PG 67 or lower shall be prepared without modification.
4. All PMA binders having a high temperature designation higher than PG 67 shall only be produced with a styrene-butadiene-styrene (SBS) or styrene-butadiene (SB) elastomeric polymer modifier and the resultant binder shall meet all requirements of this Section.
5. Polyphosphoric acid may be used as a modifier not exceeding 0.75% by weight of asphalt binder for PG 76-22 (PMA), PG 76-22 (ARB), and PG 82-22 (PMA) binders.
6. PG 76-22 (ARB) shall meet the additional requirements of 916-2.1.1.
7. All PG asphalt binders having a high temperature designation of PG 67 or lower shall not have a high temperature true grade more than 5.9°C higher than the specified PG grade, (for example, if a PG 58-22 is specified, do not supply a PG 64-22 or higher).

For all PG binder used in all hot mix asphalt, silicone may be added to the PG binder at the rate of 25 cubic centimeters of silicone mixed to each 5,000 gallons of PG binder. If a dispersing fluid is used in conjunction with the silicone, the resultant mixture containing the full 25 cubic centimeters of silicone shall be added in accordance with the manufacturer's recommendation. The blending of the silicone with the PG binder shall be done by the supplier prior to the shipment. When the asphalt binder will be used with a foaming warm mix technology, refer to the technology supplier's guidance on the addition of silicone.

Where an anti-strip additive is required, per the requirements of Sections 334 and 337, the amount shall be from 0.25% to 0.75% by weight of asphalt binder. The anti-strip additive shall meet the requirements of 916-4. The anti-strip additive shall be introduced into the PG binder by the supplier during loading.

916-2.1.1 Additional Requirements for PG 76-22 (ARB): The following additional requirements apply only to PG 76-22 (ARB):

1. The asphalt binder shall contain a minimum of 7.0% ground tire rubber (GTR) by weight of asphalt binder.

2. The GTR shall meet the requirements of Section 919.

3. Polymer modification is optional for PG 76-22 (ARB).

4. Use of excess PG 76-22 (ARB): The Contractor may use excess PG 76-22 (ARB) in other asphalt concrete mixes requiring the use of a PG 67-22 binder by blending with straight PG 67-22 binder so that the total amount of ground tire rubber in the binder is less than 2.0%. The Contractor may use excess PG 76-22 (ARB) in asphalt concrete mixtures requiring the use of a PG 52-28 or PG 58-22 by blending with the designated binder in such proportions that the total amount of ground tire rubber in the binder is less than 1.0%.

916-2.2 Compliance with Materials Manual: Producers of Superpave PG binders shall meet the requirements of Section 3.5, Volume II of the Department's Material Manual, which may be viewed at the following URL:

<http://www.dot.state.fl.us/programmanagement/Implemented/URLinSpecs/files/Section3.5-100915.pdf>

916-2.3 Reporting: Specification compliance testing results shall be reported for the tests in the table below, unless noted otherwise. Quality control (QC) testing results shall be reported for original binder DSR ($G/\sin \delta$ and phase angle, as applicable).

SUPERPAVE PG ASPHALT BINDER		
Test and Method	Conditions	Specification Minimum/Maximum Value
Superpave PG Asphalt Binder Grade		Report
APL Number		Report
Modifier (name and type)	Polymer, Ground Tire Rubber with Approved Product List (APL) number, Sulfur, PPA, REOB, and any Rejuvenating Agents	Report
Original Binder		
Solubility, AASHTO T 44-14	in Trichloroethylene	Minimum 99.0% (Not applicable for PG 76-22 (ARB))
Flash Point, AASHTO T 48-06 (2015)	Cleveland Open Cup	Minimum 450°F
Rotational Viscosity, AASHTO T 316-13	275°F	Maximum 3 Pa·s ^(a)
Dynamic Shear Rheometer ^(b) , AASHTO T 315-12	$G^*/\sin \delta$	Minimum 1.00 kPa
	Phase Angle, $\delta^{(c)}$ PG 76-22 (PMA) and PG 76-22 (ARB) ^(d) PG 82-22 (PMA)	Maximum 75 degrees Maximum 65 degrees
Separation Test, ASTM D 7173-14 and Softening Point, AASHTO T 53-09 (2013)	163±5°C 48 hours	Maximum 15°F (PG 76-22 (ARB) only)
Rolling Thin Film Oven Test Residue (AASHTO T 240-09)		
Rolling Thin Film Oven, AASHTO T 240-13	Mass Change %	Maximum 1.00
Multiple Stress Creep Recovery, $J_{nr, 3.2}$ AASHTO M 332-14	Grade Temperature (Unmodified binders only)	"S" = 4.50kPa ⁻¹ max
Multiple Stress Creep Recovery, $J_{nr, 3.2}^{(d, e, f)}$ AASHTO M 332-14	67°C (Modified binders only)	"V" = 1.0 kPa ⁻¹ max "E" = 0.5 kPa ⁻¹ max Maximum $J_{nr, diff} = 75\%$
Multiple Stress Creep Recovery, %Recovery ^(d, e) AASHTO M 332-14	67°C (Modified binders only)	%R _{3.2} ≥ 29.37 ($J_{nr, 3.2}$) ^{-0.2633}
Pressure Aging Vessel Residue (AASHTO R 28-12)		
Dynamic Shear Rheometer, AASHTO T 315-12	$G^* \sin \delta$, 10 rad/sec.	Maximum 5000 kPa ^(f, g)

Creep Stiffness, AASHTO T 313-12	S (Stiffness), @ 60 sec. m-value, @ 60 sec.	Maximum 300 MPa Minimum 0.300
(a) Binders with values higher than 3 Pa-s should be used with caution and only after consulting with the supplier as to any special handling procedures, including pumping capabilities. (b) Dynamic Shear Rheometer (AASHTO T 315) shall be performed on original binders for the purposes of QC testing only. (c) The original binder phase angle (AASHTO T 315-12) shall be performed at grade temperature. (d) AASHTO T 315-12 and AASHTO T 350-14 will be performed at a 2 mm gap for PG 76-22 (ARB) (e) All binders with a high temperature designation >67 will be tested at 67°C. PG 76-22 (PMA) and PG 76-22 (ARB) shall pass a “V” graded and PG 82-22 (PMA) shall pass an “E” grade per AASHTO M 332-14. (f) A maximum Jnr diff = 75% does not apply for any Jnr value < 0.5 kPa-1. (g) For all PG grades of a PG 67 or higher, perform the PAV residue testing at 26.5°C with a maximum of 5000 kPa.		

916-3 Asphalt Emulsions.

916-3.1 Compliance with Materials Manual: Producers of asphalt emulsions shall meet the requirements of Section 3.4, Volume II of the Department’s Material Manual, which may be viewed at the following URL:

<http://www.dot.state.fl.us/programmanagement/Implemented/URLinSpecs/files/Section3.4-100915.pdf>

916-3.2 Requirements: Use a prime coat meeting the requirements of AASHTO M 140-13 for anionic emulsions, AASHTO M 208-01 (2013) or AASHTO M 316-13 for cationic emulsions, or as specified in the Producer’s QC Plan. For anionic emulsions, the cement mixing test will be waived. For tack products the minimum testing requirements shall include percent residue, naphtha content (as needed), one-day storage stability, sieve test, Saybolt Furol viscosity, original DSR, and solubility (on an annual basis). Residue testing shall be performed on residue obtained from distillation (AASHTO T 59-15) or low- temperature evaporation (AASHTO PP 72-11(2013) Method B).

916-4 Liquid Anti-strip Agents.

916-4.1 Requirements: Liquid anti-strip agents shall be tested in accordance with FM 1-T 283. A minimum tensile strength ratio of 0.80 must be obtained when testing the liquid anti-strip with various aggregate sources and two nominal maximum aggregate size mixtures. Specific requirements are contained in the APL process.

916-4.2 Mix Design Verification: Inclusion of a liquid anti-strip agent on the APL does not guarantee that the anti-strip will be approved for use in an asphalt mixture. Particular aggregate sources may require moisture susceptibility testing per FM 1-T 283 for each mix design. Results from this testing may meet the Department’s requirement of minimum tensile strength ratio of 0.80 or may indicate the need for a larger dosage rate of anti-strip agent (up to 0.75% maximum) or a different anti-strip agent to meet the specification requirements.

ADMIXTURES FOR CONCRETE.

(REV 3-1-17) (FA 3-3-17) (7-17)

SUBARTICLE 924-2.1 is deleted and the following substituted:

924-2.1 Approved Product List (APL): The Department maintains a list of qualified admixtures for air-entraining, water-reducing (Type A), accelerating (Type C), water-reducing and retarding (Type D), water-reducer and accelerating (Type E), high range water reducing (Type F) and high range water-reducing and retarding (Type G), high range water-reducing (Type I - Plasticizing and Type II - Plasticizing and retarding) in producing flowing concrete, specific performance (Type S), and corrosion inhibitor, which have been determined as meeting requirements for use on Department projects. Admixtures included on this list, will be permitted without further testing.

The inclusion of any specific product on the APL, as specified in 6-1, indicates that the product has been given contingent approval, as evidenced by previous tests and apparent effectiveness under field conditions.

Except as specified in Sections 346 and 347, no further testing will be required for any product on the APL unless there is indication in actual field use of inadequate or unreliable results.

ADMIXTURES FOR CONCRETE.

(REV 3-1-17) (FA 3-1-17) (7-17)

SUBARTICLE 924-2.7 is deleted and the following is substituted:

924-2.7 For Corrosion Inhibitors: Corrosion inhibitors shall meet the requirements of ASTM G109 and all requirements in this Section.

Calcium nitrite is a chemically reactive admixture used in concrete to inhibit the corrosion of embedded reinforcing steel and other metallic components. The calcium nitrite supplier shall submit to the Engineer test certificates from an independent laboratory indicating compliance with this Specification. The test certificate shall include corrosion inhibiting properties per ASTM G109 and results of physical tests included in this section. Calcium nitrite shall be supplied by the same manufacturing source throughout the project. If a single primary source of calcium nitrite cannot be maintained throughout the project, new test certificates shall be submitted. The Engineer will determine specification compliance of a new supplier's product, and evaluate the effectiveness of the new calcium nitrite product before approving the source.

The active ingredient shall be calcium nitrite $\text{Ca}(\text{NO}_2)_2$.

The calcium nitrite shall be furnished in solution containing not less than 29% calcium nitrite solids. The concentration of the calcium nitrite solution shall be verified by spectrophotometric analysis or other comparable methods. The nitrite concentration shall be measured in accordance with Standard Methods for the Examination of Water and Waste Water, 18th Edition.

A volume of one gallon of calcium nitrite solution shall weigh within the range of 10.40 to 11.92 lb.

The calcium nitrite solution shall be added to the concrete mixture at a rate of 4.50 to 4.60 gal/yd³ of concrete.

The addition of calcium nitrite to the concrete mix shall not adversely affect the properties of fresh and hardened concrete.

Calcium Nitrite concrete shall meet the following physical requirements when mixed and tested in accordance with AASHTO M194:

Water Content, % of control	95 to 100
Time of setting, allowable deviation from control, h:min:	
Initial: at least not more than	1:00 earlier nor 1:30 later
Final: at least not more than	1:00 earlier nor 1:30 later
Compressive Strength, min. % of control:	shall be 100 for all ages
Flexural strength, min, % of control:	shall be 100 for all ages
Length change, max Shrinkage (alternative Requirements): % of control	135
Increase over control	0.010
Relative durability factor, min	80

The following table lists the corrosion inhibiting test result limits for calcium nitrite concrete tested in accordance with ASTM G109:

Maximum Allowable Test Results of Calcium Nitrite Concrete	
Measured average macrocell current any time during the test	10 μ A
Average macrocell current at test completion	2 μ A
Average visible corrosion measured as percent corroded area of control	85%

SUBARTICLE 924-2.8 is deleted and the following is substituted:

924-2.8 Type S (Specific Performance): Specific performance admixtures shall meet the requirements of ASTM C494 for Type S admixtures except the compressive strength at one year, flexural strength and relative durability factor requirements are waived. The following Type S admixtures may be added to plastic concrete.

924-2.8.1 Workability Retention: Workability retention admixtures are used to extend workability and slump life without retarding the setting time. The dosage rate used shall be based on the manufacturer's recommendation in order to maintain 80% of the initial measured slump after 60 minutes.

924-2.8.2 Shrinkage Reducing: Shrinkage reducing admixtures are used to minimize the shrinkage of plastic and hardened concrete. The dosage rate used shall be based on the manufacturer's recommendation and may vary for a specific application.

924-2.8.3 Rheology Modifying: Rheology modifying admixtures are used to maximize the rheology of plastic concrete. The dosage rate used shall be based on the manufacturer's recommendation and may vary for a specific application.

PAVEMENT MARKING MATERIALS.

(REV 3-3-15) (FA 3-19-15) (7-15)

SECTION 971 is deleted and the following substituted:

SECTION 971 PAVEMENT MARKING MATERIALS

971-1 General Requirements.

971-1.1 Packaging and Labeling: The name and address of the manufacturer shall be shown on the label. The label must also show the color, date of manufacturer, lot number and APL number. The label shall warn the user of any special handling or precautions of the material, as recommended by the manufacturer. Any packaging and labeling not so marked will not be accepted.

971-1.2 Storage: All materials must have a container storage life of one year from date of manufacture. Any pavement marking materials, which although inspected and approved at the point of manufacture, hardens or livers in the containers will be rejected even though it conforms to these Specifications in all other respects.

971-1.3 Mixing: All paints shall be delivered to the project completely mixed, and ready to be used without additional oil or thinner. Thinners shall not be used under any circumstances.

971-1.4 Approved Product List (APL): All pavement marking materials shall be one of the products listed on the Department's Approved Product List (APL). Manufacturers seeking evaluation of their product shall submit an application in accordance with Section 6 accompanied by a copy of the infrared identification curve (2.5 to 15 μ m) for the vehicle component. The Department will test all pavement marking materials in accordance with FM5-541, Part B. A notation of the number of coats and the thickness of each coat at which the product passes testing may be placed on the APL. When listed, this will be the minimum criteria for application of the pavement marking material.

971-1. 5 Samples: Field samples will be obtained in accordance with the Department's Sampling, Testing and Reporting Guide Schedule.

971-1. 6 Color: Materials other than white and yellow shall meet the color requirements as identified in 23 CFR 665 Table 5 Appendix to Part 655, Subpart F. White colored materials will only be required to meet the initial daytime chromaticity requirements.

Yellow materials for pavement markings shall meet the following performance requirements. The initial daytime chromaticity for yellow materials shall fall within the box created by the following coordinates:

Initial Daytime Chromaticity Coordinates (Corner Points)				
	1	2	3	4
x	0.530	0.510	0.455	0.472
y	0.456	0.485	0.444	0.400

The nighttime chromaticity for yellow materials shall fall within the box created by the following coordinates:

Nighttime Chromaticity Coordinates (Corner Points)				
	1	2	3	4
x	0.575	0.508	0.473	0.510
y	0.425	0.415	0.453	0.490

971-1.7 Additional Requirements: Pavement marking materials shall be characterized as non-hazardous as defined by Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Provide supporting independent analytical data or product material safety data sheets (MSDS) identifying any components listed in Table 1 of 40 CFR 261.24.

Additionally, retroreflective elements shall contain no more than 200 ppm by weight of lead or arsenic when tested in accordance with the Environmental Protection Agency (EPA) Testing Methods 3052, 6010B, and 6010C.

971-2 Glass Spheres.

971-2.1 General Requirements: Glass spheres shall be of a composition designed to be highly resistant to traffic wear and to the effects of weathering for the production of a reflective surface, without altering day visibility of the marking. The general requirements of 971-1 apply to glass spheres.

971-2.2 Specific Properties: The large (Type 3 or larger) glass spheres used for drop on beads shall have an adhesion coating. Type 1 glass spheres used for drop on beads shall have a dual coating. Beads used in the intermix of materials are not required to be coated.

The following physical requirements apply:

Property	Test Method	Specification
Roundness*	ASTM D1155	Min: 70 % by weight
Roundness**	ASTM D1155	Min: 80% by weight
Refractive Index*	Becke Line Method (25+/-5C)	1.5 minimum
Refractive Index**	Becke Line Method (25+/-5C)	1.9 minimum
*Type 1, 3, 4 and 5 beads		
**High Index beads		

Sieve Size	Percent by Mass Passing Designated Sieve (ASTM D1214)				
	Grading Designation				
	Type 1 (AASHTO)	Type 3 (FP 96)	Type 4 (FP 96)	Type 5 (FP 96)	High Index
No. 8				100	
No. 10			100	95 - 100	
No. 12		100	95 - 100	80 - 95	
No. 14		95 - 100	80 - 95	10 - 40	
No. 16	100	80 - 95	10 - 40	0 - 5	100
No. 18		10 - 40	0 - 5	0 - 2	
No. 20	95 - 100	0 - 5	0 - 2		95 - 100
No. 25		0 - 2			
No. 30	75 - 95				55 - 85

Sieve Size	Percent by Mass Passing Designated Sieve (ASTM D1214)				
	Grading Designation				
	Type 1 (AASHTO)	Type 3 (FP 96)	Type 4 (FP 96)	Type 5 (FP 96)	High Index
No. 40					15 - 45
No. 50	15 - 35				0 - 5
No. 80					
No. 100	0 - 5				

971-2.3 Sampling: A random 50 pound sample of glass spheres shall be obtained for each 50,000 pound shipped. Send each 50 pound sample to the State Materials Office.

971-2.4 Containers: The spheres shall be furnished in new 50 pound moisture-proof bags or 2000 pound triwall boxes. All containers shall meet Interstate Commerce Commission requirements for strength and type.

971-3 Standard Paint.

971-3.1 General: Standard paints shall include water reducible products that are single packaged and ready mixed. The paint shall have the capability of being cleaned and flushed from the pavement marking machines using regular tap water and any required rust inhibitors. The manufacturer shall have the option of formulating the paint according to his own specifications. However, the requirements delineated in this Specification and Section 710 shall apply regardless of the type of formulation used. The paint shall be free from all skins, dirt and foreign objects.

971-3.2 Composition:

Component	Test Method	Criteria
Total Solids, by weight	ASTM D2369	minimum 75%
Pigments, by weight	ASTM D3723	minimum 57%
Vehicle Solids % of Vehicle*		minimum 40%
TiO ₂ , Type II Rutile (white paint only)	ASTM D476	minimum 1.0 lb/gal
Volatile Organic Content, (VOC)	ASTM D3960	maximum 150 g/L
*Vehicle Solids % of Vehicle = $\frac{\% \text{ total solids} - \% \text{ pigment}}{100 - \% \text{ pigment}}$		

971-3.3 Physical Requirements: Test laboratory samples in accordance with ASTM E811 and E1349 and also meet the following criteria:

Property	Test Method	Minimum	Maximum
Density	ASTM D1475	13.5 ± 1.4 lb/gal	-
Viscosity at 77°F	ASTM D562	80 KU	100 KU
Fineness of Grind	ASTM D1210	3(HS)	
Dry Opacity at 5 mils WFT	ASTM D2805	0.92	-
Bleed Ratio	ASTM D969	0.95	-
Flexibility	ASTM D522 Method B	Pass	-
Abrasion Resistance	ASTM D4060	Pass	-

971-3.3.1 Set To Bear Traffic Time: The paint shall set to bear traffic in not more than two minutes.

971-3.3.2 Abrasion Resistance: Test four samples using a Taber Abrader. The paint shall be applied to specimen plates using a drawdown blade having a clearance of 20 mils. Clean with a soft brush and weigh each sample. Abrade samples for 1,000 cycles with a combined load of 500 g (arm plus auxiliary weight) on each arm and CS-10 wheels. Clean the samples with a soft brush and weigh again. The average weight loss for the four plates shall not exceed 75 mg per plate.

971-3.3.3 Retroreflectivity: The white and yellow pavement markings shall attain an initial retroreflectance of not less than 300 mcd/lx·m² and 250 mcd/lx·m², respectively. The retroreflectance of the white and yellow pavement markings at the end of the six month period shall not be less than 150 mcd/lx·m².

971-3.4 Application Properties: Meet the requirements of Section 710 for application properties.

971-3.5 Packaging and Labeling: The paint shall be placed in 55 gallon open-end steel drums with a re-usable multi-seal sponge gasket or 275 gallon Intermediate Bulk Container (IBC). No more than 50 gallons of paint shall be placed in any drum or 250 gallons in any IBC to allow for expansion during transport and storage. Clearly mark the containers with the weight in pounds per gallon, the volume of materials in units of gallons.

971-4 Durable Paint.

971-4.1 General: Durable paints shall include water reducible products that are single packaged and ready mixed. The paint shall have the capability of being cleaned and flushed from the pavement marking machines using regular tap water and any required rust inhibitors. The manufacturer shall have the option of formulating the material according to his own specifications. However, the requirements delineated in this Specification and Section 710 shall apply regardless of the type of formulation used. The paint shall be free from all skins, dirt and foreign objects. The manufacturer shall provide the recommended thickness prior to installation.

971-4.2 Composition:

Component	Test Method	Criteria
Total Solids, by weight	ASTM D2369	75% minimum
Pigments, by weight	ASTM D3723	57% minimum
Vehicle Solids, % on Vehicle*		40% minimum

Component	Test Method	Criteria
TiO ₂ , Type II Rutile (white paint only)	ASTM D476	1.0 lb/gal minimum
Volatile Organic Content, (VOC)	ASTM D3960	150 g/L maximum
*Vehicle Solids % of Vehicle = $\frac{\% \text{ total solids} - \% \text{ pigment}}{100 - \% \text{ pigment}}$ Vehicle solids shall be 100% acrylic emulsion polymer.		

971-4.3 Physical Requirements: Test laboratory samples in accordance with ASTM E811 and E1349 and also meet the following criteria:

Property	Test Method	Minimum	Maximum
Density	ASTM D1475	13.5 ± 1.4 lb/gal	N/A
Viscosity at 77°F	ASTM D562	80 KU	100 KU
Fineness of Grind	ASTM D1210	3(HS)	
Dry Opacity at 5 mils WFT	ASTM D2805	0.92	-
Bleed Ratio	ASTM D969	0.95	-
Flexibility	ASTM D522 Method B	Pass	-
Abrasion Resistance	ASTM D4060	Pass	-

971-4.3.1 Set To Bear Traffic Time: The paint shall set to bear traffic in not more than ten minutes.

971-4.3.2 Abrasion Resistance: Test four samples using a Taber Abrader. The paint shall be applied to specimen plates using a drawdown blade having a clearance of 20 mils. Air dry each sample until fully cured based on the manufacturers product recommendation. Clean with a soft brush and weigh each sample. Abrade samples for 1,000 cycles with a combined load of 500 g (arm plus auxiliary weight) on each arm and CS-10 wheels. Clean the samples with a soft brush and weigh again. The average weight loss for the four plates shall not exceed 75 mg per plate.

971-4.3.3 Retroreflectivity: The white and yellow pavement markings shall attain an initial retroreflectance of not less than 450 mcd/lx·m² and 300 mcd/lx·m², respectively. The retroreflectance of the white and yellow pavement markings at the end of the 18 month period shall not be less than 150 mcd/lx·m².

971-4.4 Application Properties: Application properties shall meet the requirements of Section 710.

971-4.5 Packaging and Labeling: The paint shall be placed in 55 gallon open-end steel drums with a re-usable multi-seal sponge gasket or 275 gallon Intermediate Bulk Container (IBC). No more than 50 gallons of paint shall be placed in any drum or 250 gallons in any IBC to allow for expansion during transport and storage. Clearly mark the containers with the weight in pounds per gallon, the volume of materials in units of gallons.

971-5 Standard Thermoplastic Material.

971-5.1 General: The manufacturer shall utilize alkyd based materials only and shall have the option of formulating the material according to his own specifications. However, the requirements delineated in this Specification and Section 711 shall apply regardless of the type of formulation used. The pigment, glass spheres, and filler shall be well dispersed in the resin.

971-5.2 Composition:

Component	Test Method	White	Yellow
Binder		20.0% minimum	20.0% minimum
TiO ₂ , Type II Rutile	ASTM D476	10.0% minimum	-
Glass Spheres	AASHTO T250	40.0% minimum	40.0% minimum
Yellow Pigment		-	% minimum per manufacturer
Calcium Carbonate and Inert Filler (-200 mesh sieve)		30.0% maximum	37.5% maximum
Percentages are by weight.			

The alkyd/maleic binder must consist of a mixture of synthetic resins (at least one synthetic resin must be solid at room temperature) and high boiling point plasticizers. At least one-half of the binder composition must be 100% maleic-modified glycerol of rosin and be no less than 15% by weight of the entire material formulation.

971-5.3 Glass Spheres: The glass spheres in the intermix shall consist of 50% Type 1 and 50% Type 3 and meeting the requirements of this Section..

971-5.4 Sharp Silica Sand: Sharp silica sand used for bicycle markings and pedestrian crosswalk lines shall meet the following gradation requirements:

Sieve Size	Percent by Mass Passing Designated Sieve (ASTM D1214)
20	100
50	0 to 10

971-5.5 Physical Requirements: Laboratory samples shall be tested in accordance with ASTM D4960 and shall meet the following criteria:

Property	Test Method	Minimum	Maximum
Water Absorption	ASTM D570	-	0.5%
Softening Point	ASTM D36	195°F	-
Low Temperature Stress Resistance	AASHTO T250	Pass	-
Specific Gravity	Water displacement	1.9	2.3
Indentation Resistance	ASTM D7735* Type A Durometer	40	75
Impact Resistance	ASTM D256, Method A	1.0 N·m	-
Flash Point	ASTM D92	475°F	-

* The durometer and panel shall be at 115°F with a 1000 g load applied. Instrument measurement shall be taken after 15 seconds.

971-5.5.1 Set To Bear Traffic Time: The thermoplastic shall set to bear traffic in not more than two minutes.

971-5.5.2 Retroreflectivity: The white and yellow pavement markings shall attain an initial retroreflectance of not less than 450 mcd/lx·m² and not less than 350 mcd/lx·m², respectively. The retroreflectance of the white and yellow pavement markings at the end of the three year APL testing period shall not be less than 250 mcd/lx·m².

971-5.6 Application Properties: Application properties shall meet the requirements of Section 711.

971-5.7 Packing and Labeling: The thermoplastic material shall be packaged in suitable biodegradable or thermo-degradable containers which will not adhere to the product during shipment and storage. The container of thermoplastic material shall weigh approximately 50 pounds. The label shall also warn the user that the material shall be heated in the range as recommended by the manufacturer.

971-6 Preformed Thermoplastic Material.

971-6.1 General: The manufacturer shall have the option of formulating the material according to his own specifications. However, the requirements delineated in this Specification and Section 711 shall apply regardless of the type of formulation used. The pigment, glass spheres, and filler shall be well dispersed in the resin.

971-6.2 Composition: The preformed thermoplastic shall consist of high quality materials, pigments and glass spheres or other reflective material uniformly distributed throughout their cross-sectional area, with a reflective layer of spheres or other reflective material embedded in the top surface.

971-6.3 Glass Spheres: Material shall contain no less than 30% glass spheres by weight.

971-6.4 Color: Materials shall meet the performance requirements specified in 971-1.6 and the following additional requirements. The initial luminance factor, Cap Y, shall not be less than 55.

971-6.5 Physical Requirements: Laboratory samples shall be tested in accordance with ASTM D4960 and shall meet the following criteria:

Property	Test Method	Minimum	Maximum
Softening Point	ASTM D36	195°F	-
Low Temperature Stress Resistance	AASHTO T250	Pass	-
Indentation Resistance	ASTM D7735* Type A Durometer	40	75
Impact Resistance	ASTM D256, Method A**	1.0 N·m	-

*The durometer and panel shall be at 115°F with a 1000 g load applied. Instrument measurement shall be taken after 15 seconds.

**The test specimen for ASTM D256 shall be 1 in. x 1 in. x 6 in. and shall not be notched.

971-6.5.1 Retroreflectivity: The white pavement markings other than crosswalks and bicycle markings shall attain an initial retroreflectance of not less than 300 mcd/lx·m². Crosswalks and bicycle markings shall attain initial retroreflectivity of not less than 275 mcd/lx·m². The retroreflectance of the white pavement markings at the end of the three year period shall not be less than 150 mcd/lx·m².

971-6.5.2 Skid Resistance: The surface of the pavement markings shall provide a minimum skid resistance value of 35 BPN (British Pendulum Number) when tested according to ASTM E303. Bicycle markings and pedestrian crosswalks shall provide a minimum skid resistance value of 55 BPN.

971-6.6 Application Properties: Application properties shall meet the requirements of Section 711.

971-6.7 Packing and Labeling: The thermoplastic material shall be packaged in suitable biodegradable or thermo-degradable containers which will not adhere to the product during shipment and storage. Clearly mark each container with the thickness of the preformed material in units of inches.

971-7 Permanent Tape Materials.

971-7.1 General: The materials for permanent tape pavement markings shall consist of white or yellow weather-resistant reflective film as specified herein. The pigment, glass spheres, and filler shall be well dispersed in the resin. However, the requirements delineated in this Specification and Section 713 shall apply.

971-7.2 Composition: Permanent tape pavement markings shall consist of high-quality plastic materials, pigments, and glass spheres uniformly distributed throughout their cross-sectional area, with a reflective layer of spheres embedded in the top surface.

971-7.3 Skid Resistance: The surface of the pavement markings shall provide a minimum skid resistance value of 35 BPN when tested according to ASTM E303. Bicycle markings and pedestrian crosswalks shall provide a minimum skid resistance value of 55 BPN.

971-7.4 Thickness: The APL will list the specified thickness of each approved product.

971-7.5 Durability and Wear Resistance: The film shall be weather resistant and, through normal wear, shall show no significant tearing, rollback or other signs of poor adhesion.

971-7.6 Conformability and Resealing: The pavement markings shall be capable of conforming to pavement contours, breaks and faults under traffic at pavement temperatures recommended by the manufacturer. The film shall be capable of use for patching worn areas of the same types of film in accordance with the manufacturer's recommendations.

971-7.7 Tensile Strength: The pavement markings shall have a minimum tensile strength of 40 psi when tested according to ASTM D638. A rectangular test specimen 6 inches by 1 inch by 0.05 inches minimum thickness shall be tested at a temperature range of 40 to 80°F using a jaw speed of 0.25 inch/min.

971-7.8 Pigmentation: The pigment shall be selected and blended to provide a material which is white or yellow conforming to standard highway colors through the expected life of the pavement markings. Test laboratory samples in accordance with ASTM E811 and E1349.

971-7.9 Glass Spheres: The pavement markings shall have glass retention qualities such that, when at room temperature a 2 inches by 6 inches specimen is bent over a 0.5 inch diameter mandrel axis, a microscopic examination of the area on the mandrel shall show no more than 10% of the spheres with entrapment by the material of less than 40%. The bead adhesion shall be such that spheres are not easily removed when the film surface is scratched firmly with a thumbnail.

971-7.10 Retroreflectivity: The materials shall attain an initial retroreflectance of not less than 450 mcd/lx·m² for white markings and not less than 350 mcd/lx·m² for yellow markings. The pavement markings shall retain a minimum retroreflectance for two years of not

less than 300 mcd/lx·m² for white markings and not less than 250 mcd/lx·m² for yellow markings. The retroreflectance of the white, yellow and contrast pavement markings at the end of the five year APL testing period shall not be less than 150 mcd/lx·m².

971-7.11 Packaging and Labeling: Ship all permanent tape materials in containers which will not adhere to the product during shipment and storage. Clearly mark each container with the thickness of the preformed material in units of inches.

971-8 Two Reactive Component Material.

971-8.1 General: Two reactive component materials intended for use under this Specification shall include, but not be limited to, epoxies, polyesters and urethanes. The manufacturer shall have the option of formulating the material according to his own specifications. However, the criteria outlined in this Specification and Section 709 shall apply regardless of the type of formulation used. The material shall be free from all skins, dirt and foreign objects.

971-8.2 Composition:

Component	Test Method	Criteria
TiO ₂ , Type II Rutile (white material only)	ASTM D476	minimum 10% by weight
Volatile Organic Content, (VOC)	ASTM D3960	maximum 150 g/L

971-8.3 Physical Requirements: Test laboratory samples in accordance with ASTM and also meet the following criteria:

Property	Test Method	Minimum	Maximum
Adhesion to Concrete	ASTM D4541, ASTM D7234 or ACI 503	Concrete Failure	-
Hardness	ASTM D7735 Type D	75	-
Abrasion Resistance	ASTM D4060	Pass	-

971-8.3.1 Set To Bear Traffic Time: The material shall set to bear traffic in not more than two minutes.

971-8.3.2 Abrasion Resistance: Test four samples using a Taber Abrader. The material shall be applied to specimen plates using a drawdown blade having a clearance of 15 mils. Clean with a soft brush and weigh each sample. Abrade samples for 1,000 cycles with a combined load of 500 g (arm plus auxiliary weight) on each arm and CS-10 wheels. Clean the samples with a soft brush and weigh again. The average weight loss for the four plates shall not exceed 60 mg per plate.

971-8.3.3 Retroreflectivity: The white and yellow pavement markings shall attain an initial retroreflectance of not less than 450 mcd/lx·m² and not less than 350 mcd/lx·m², respectively. The retroreflectance of the white and yellow pavement markings at the end of the three year period shall not be less than 150 mcd/lx·m².

971-8.4 Application Properties: Application properties shall meet the requirements of Section 709.

971-8.5 Packaging and Labeling: The two reactive component material shall be placed in 55 gallon open-end steel drums with a re-usable multi-seal sponge gasket or 275 gallon Intermediate Bulk Container (IBC). No more than 50 gallons of material shall be placed in any drum or 250 gallons in any IBC to allow for expansion during transport and storage. Clearly mark the containers with the volume of materials in units of gallons and the product name.

971-9 Profiled Thermoplastic Material.

971-9.1 General: The manufacturer shall utilize alkyd based materials only and shall have the option of formulating the material according to his own specifications. However, the requirements delineated in this Specification shall apply regardless of the type of formulation used. The pigment, reflective elements, and filler shall be well dispersed in the resin.

971-9.2 Composition:

Component	Test Method	White	Yellow
Binder		20.0% minimum	20.0% minimum
TiO ₂ , Type II Rutile	ASTM D476	10.0% minimum	-
Reflective Elements	AASHTO T250	% minimum per manufacturer	% minimum per manufacturer
Yellow Pigment		-	% minimum per manufacturer
Calcium Carbonate and Inert Filler (-200 mesh sieve)		% minimum per manufacturer	% minimum per manufacturer

Note: Percentages are by weight.

The alkyd/maleic binder must consist of a mixture of synthetic resins (at least one synthetic resin must be solid at room temperature) and high boiling point plasticizers. At least one-half of the binder composition must be 100% maleic-modified glycerol of rosin and be no less than 15% by weight of the entire material formulation.

971-9.3 Retroreflective Elements: The reflective elements in the intermix shall be determined by the manufacturer and identified for the APL.

971-9.4 Physical Requirements: Laboratory samples shall be tested in accordance with ASTM D4960 and shall meet the following criteria:

Property	Test Method	Minimum	Maximum
Water Absorption	ASTM D570	-	0.5%
Softening Point	ASTM D36	210°F	-
Low Temperature Stress Resistance	AASHTO T250	Pass	-
Specific Gravity	Water displacement	1.9	2.3
Indentation Resistance	ASTM D7735* Type A Durometer	65	-
Impact Resistance	ASTM D256, Method A	1.0 N·m	-
Flash Point	ASTM D92	475°F	-

*The durometer and panel shall be at 80°F, with a 1000 g load applied. Instrument measurement shall be taken after 15 seconds.

971-9.4.1 Set To Bear Traffic Time: When applied at the temperatures and thickness specified by Section 701, the baseline material shall set to bear traffic in not more than two minutes. The bumps shall set to bear traffic in not more than 10 minutes at ambient air temperatures of 80°F or less and in not more than 15 minutes for ambient air temperatures exceeding 80°F.

971-9.4.2 Retroreflectivity: The white and yellow pavement markings shall attain an initial retroreflectance of not less than 300 mcd/lx·m² and not less than 250 mcd/lx·m², respectively. The retroreflectance of the white and yellow pavement markings at the end of the three year period shall not be less than 150 mcd/lx·m².

971-9.4.3 Durability: Durability shall include flattening of the profile or raised portions of the line. The flattening of the profile or raised portion of the line shall not exceed 25% at the end of the three year period.

971-9.5 Application Properties: Application properties shall meet the requirements of Section 701.

971-9.6 Packing and Labeling: The thermoplastic material shall be packaged in suitable biodegradable or thermo-degradable containers which will not adhere to the product during shipment and storage. The container of thermoplastic material shall weigh approximately 50 pounds. The label shall warn the user that the material shall be heated in the range as recommended by the manufacturer.

HIGHWAY LIGHTING MATERIALS.

(REV 7-14-16) (FA 8-1-16) (9-16)

SUBARTICLE 992-1.2 is deleted and the following substituted:

992-1.2 Luminaires, Driver, etc.: All luminaries shall be one of the products listed in the Department's Approved Product List (APL). Manufacturers seeking evaluation of their product shall submit an application in accordance with Section 6.

The light source for luminaires shall be either light emitting diodes (LED), magnetic induction or plazma induction.

The luminaire shall be constructed of precision cast aluminum with a corrosive resistant polyester powder coat finish. The standard color shall be gray. The refractor and lens shall consist of glass or an optical grade polymer. The manufacturer shall place a permanent tag in the luminaire housing imprinted with: the manufacturer name, luminaire voltage, lamp wattage, and provide a blank area for the Contractor to inscribe the installation date.

Luminaires shall meet the following requirements: UL 1598 listed and labeled for installation in wet locations by an OSHA recognized "Nationally Recognized Testing Laboratory" (NRTL), be capable of maintaining 94.1% intensity at 10,000 hours with an ambient temperature of 25°C (IES LM-80) and have IESNA light distribution curves (IES LM-79) by an EPA recognized laboratory.

The driver shall be rated for 100,000 hours and have a power factor greater than or equal to 90% at full load with a total harmonic distortion less than or equal to 20% at full load. The fixture shall accommodate a circuit voltage of 480V.

Luminaries shall be provided with a minimum 10kV/10kA internal surge suppression module meeting UL 1449/ANSI C62.41.2 Category C.

The manufacturer shall submit a five year non-prorated full warranty on all components of the luminaire to the Department. The warranty shall begin on the project acceptance date and include all components of luminaire.

SUBARTICLE 992-2.4 is deleted and the following substituted:

992-2.4 Luminaires: The luminaires shall meet the requirements shown in the Plans and the following additional requirements.

a. A maximum correlated color temperature (CCT) of 4000°K meeting ANSI C78.377A (3985°K, plus or minus 275°K).

b. The optical portion of the housing shall be sealed to provide an IP 66 rating.

The luminaire mounting assembly shall be a slipfitter type designed to accommodate a nominal 2 inch pipe size (2-3/8 inch O.D.) arm or a pole top mounting assembly designed to accommodate a 2-3/8 inch pole top tenon.

For APL qualification, the manufacturer must have a fixture with an IESNA light distribution curve (IES LM-79) by an EPA recognized laboratory, meeting a minimum pole spacing of 215 feet using the AGi32 lighting optimization tool with the following settings:

Setting	Requirement
Roadway Standard	IES RP-8-200
R-Table	R3 (Q0=0.07)
Roadway Layout	Two Rows Opposite, With Median, 2R OPP w/M
Roadway Width	40 feet
Median Width	22 feet
Number of Lanes in Direction of Travel	3
Driver's Side of Roadway	Right
Calculation Area	Bottom
Mounting Height	As per manufacturer's recommendation
Setback	12 feet
Tilt	0°
Optimization Criteria	Avg. Illuminance = 1.5 fc Avg./Min. Ratio = 4 Max./Min. Ratio= 10 Lv Max./L Avg. Ratio= 0.3
Arm Length	Pole top fixtures – as provided by the IES file Arm mounted fixtures – 12 feet

SUBARTICLE 992-3.2 is deleted and the following substituted:

992-3.2 Luminaires: The luminaires shall meet the following requirements.

a. A maximum correlated color temperature (CCT) of 4000°K meeting ANSI C78.377A (3985°K, plus or minus 275°K).

b. The optical portion of the housing shall be sealed to provide an IP 66 rating.

The luminaire mounting assembly shall be a slip fitter type designed to accommodate a nominal 2 inch pipe size (2-3/8 inch O.D.) connection. For qualification, the manufacturer must have a fixture with a Type V IESNA light distribution curve (IES LM-79) by an EPA recognized laboratory, capable of providing photometrics similar to a 1000 W HPS fixture when mounted on 80 to 120 foot poles.

SUBARTICLE 992-4.1 is deleted and the following substituted:

992-4.1 Luminaires: The luminaires shall meet the following requirements.

a. A maximum correlated color temperature (CCT) of 5000°K meeting ANSI C78.377A (3985°K, plus or minus 275°K).

b. The optical portion of the housing shall be sealed to provide an IP 66 rating.

The luminaire mounting assembly for a sign luminaire shall be a slipfitter type designed to accommodate a 1-1/2 inch, Schedule 40 steel pipe arm connection.

SUBARTICLE 992-5.1 is deleted and the following substituted:

992-5.1 Luminaires: The luminaires shall meet the following requirements.

a. A maximum correlated color temperature (CCT) of 4000°K meeting ANSI C78.377A (3985°K, plus or minus 275°K).

b. The optical portion of the housing shall be sealed to provide an IP 55 rating.

Underdeck fixtures shall be wall mounted fixtures.

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**CITY OF FORT LAUDERDALE
PLANS REQUEST FORM
For Architects, Engineers, and Contractors**

Building Plans

Pursuant to Section 119.071(3)(b), Florida Statutes (2022), building plans, blueprints, schematic drawings, and diagrams, including draft, preliminary, and final formats, which depict the internal layout and structural elements of the South Ocean Drive Bridge, Solicitation Number 94 (P12087 Re-Bid), (collectively, "Plans"), are exempt from public inspection and copying except to a licensed architect, engineer, or contractor who is performing work on or related to the South Ocean Drive Bridge. **The entities and persons receiving the Plans shall maintain the exempt status of the Plans.**

Documents Requested:

☐ View only ☐ Copies will be made

Requester Information

Name: _____

Title: _____

Work to be Performed on the Project by the Requester:

Company Name: _____

Address: _____

License Held: _____

License Number: _____

Phone: _____

E-mail: _____

As an authorized licensed architect, engineer, or contractor, the undersigned, on behalf of him/herself, and on behalf of the referenced company, agrees to maintain the exempt status of the Plans. Each bidder who is not awarded the contract for construction of the South Ocean Drive Bridge, each potential bidder who obtains the Plans ("potential bidder"), and each subcontractor who obtains the Plans ("subcontractor") agrees, at such person's or entity's expense, to return tangible Plans and any copies thereof to the City, destroy any electronic Plans, and certify the destruction of any electronic Plans to the City in writing, within fourteen days following the City Commission's award of the contract to the successful bidder. The failure by an unsuccessful bidder, potential bidder, or subcontractor to return tangible Plans and any copies thereof to the City, destroy any electronic Plans, and certify the destruction of any electronic Plans to the City in writing, within fourteen days following the City Commission's award of the contract to the successful bidder, shall constitute grounds for suspension of the unsuccessful bidder's or the potential bidder's or subcontractor's right to be included on a vendor database pursuant to Section 2-183, Code of Ordinances of the City of Fort Lauderdale, Florida, and for the City to pursue any remedy at law or in equity, in which case such unsuccessful bidder or potential bidder or subcontractor agrees to pay the City's attorney fees and costs. The undersigned further agrees that the failure to maintain the exempt status of the Plans shall constitute grounds for suspension of the bidder's or potential bidder's or subcontractor's right to be included on a vendor database pursuant to Section 2-183, Code of Ordinances of the City of Fort Lauderdale, Florida, and for the City to pursue any remedy at law or in equity, in which case such bidder, potential bidder, or subcontractor agrees to pay the City's attorney fees and costs.

Signature: _____

Date: _____

City of Fort Lauderdale
Public Works Engineering Division
100 N. Andrews Avenue
Fort Lauderdale, Florida 33301
Email:

SecureBidDocs@fortlauderdale.gov

A copy of the professional license must be provided by architects, engineers, and contractors before authorization is given to download Plans. Send a copy of the license and this completed form via email.

BID/EVENT NO. 94 SPECIFIC REFERENCES FORM

The Contractor shall have at least ten (10) years previous construction experience in constructing bridges in the State of Florida.

Bidder shall submit proof of construction experience for a minimum of three (3) projects of similar scope and scale (or larger) and shall, for each project listed, identify location; dates of construction; project name and overall scope; scope of work that was self-performed by Contractor; and client's name, address, telephone number and e-mail address.

Note: Do not include proposed team members or parent/subsidiary/affiliated companies as references in your submittals.

A. PRIME BIDDER'S NAME: _____

CLIENT NO.1 - Name of firm to be contacted: _____

Address: _____

Contact Person: _____

Phone No: (____) _____

Contact E-Mail Address: _____

Project Performance Period: _____ to _____
Dates should be in mm/yy format

Project Name : _____

Location of Project: _____

Description of the overall scope: _____

Description of work that was self-performed by Bidder:

BID/EVENT NO. 94 SPECIFIC REFERENCES FORM

CLIENT NO.2 - Name of firm to be contacted: _____

Address: _____

Contact Person: _____

Phone No: (____) _____

Contact E-Mail Address: _____

Project Performance Period: _____ to _____
Dates should be in mm/yy format

Project Name : _____

Location of Project: _____

Description of the overall scope: _____

Description of work that was self-performed by Bidder:

[illegible]

BID/EVENT NO. 94 SPECIFIC REFERENCES FORM

CLIENT NO.3 - Name of firm to be contacted: _____

Address: _____

Contact Person: _____

Phone No: (____) _____

Contact E-Mail Address: _____

Project Performance Period: _____ to _____
Dates should be in mm/yy format

Project Name : _____

Location of Project: _____

Description of the overall scope: _____

Description of work that was self-performed by Bidder:

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

QUESTIONNAIRE SHEET

PLEASE PRINT OR TYPE:

Firm Name: President

Business Address:

Telephone:

Fax:

E-Mail Address:

What was the last project of this nature which you completed? Include the year, description, and contract value.

The following are named as three corporations and representatives of those corporations for which you have performed work similar to that required by this contract, and which the City may contact as your references (include addresses, telephone numbers and e-mail addresses). Include the project name, year, description, and contract value.

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How many years has your organization been in business?

Have you ever failed to complete work awarded to you; if so, where and why?

The name of the qualifying agent for the firm and his position is: Certificate of Competency Number of Qualifying Agent: Effective Date: Expiration Date: Licensed in: Engineering Contractor's License #
(County/State)Expiration Date:

NOTE: To be considered for award of this contract, the bidder must submit a financial statement upon request.

NOTE: Contractor must have proper licensing and shall provide copy of same with his proposal.

QUESTIONNAIRE SHEET

1. Have you personally inspected the proposed work and have you a complete plan for its performance?

2. Will you sublet any part of this work? If so, list the portions or specialties of the work that you will.

a)

b)

c)

d)

e)

f)

g)

3. What equipment do you own that is available for the work?

4. What equipment will you purchase for the proposed work?

5. What equipment will you rent for the proposed work?

TRENCH SAFETY

Bidder acknowledges that included in the appropriate bid items of his bid and in the Total Bid Price are costs for complying with the Florida Trench Safety Act, Florida Statutes 553.60 – 553.64. The bidder further identifies the costs of such compliance to be summarized below:

Trench Safety Measure (Description)	Units of Measure (LF/SF)	Unit (Quantity)	Unit Cost	Extended Cost
A.				
B.				
C.				
D.				
Total:				

The bidder certifies that all trench excavation done within his control in excess of five feet (5') in depth shall be in accordance with the Occupational Safety and Health Administration's excavation safety standards, C.F.R. s. 1926.650 Subpart P., and the Florida Trench Safety Act, Florida Statutes 553.60-553.64.

Failure to complete the above may result in the bid being declared non-responsive.

DATE:

(SIGNATURE)

STATE OF: COUNTY OF:

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

(Name of Individual Signing)

who, after first being duly sworn by me,

affixed his/her signature in the space provided above on this

day of , 20

NOTARY PUBLIC

My Commission Expires:



NON-COLLUSION STATEMENT

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g., ownership of five (5) percent or more).

3.4. Immediate family members (spouse, parents, and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

NAME

RELATIONSHIPS

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

Authorized Signature

Title

Name (Printed)

Date



**CONTRACTOR'S CERTIFICATE OF COMPLIANCE WITH
NON-DISCRIMINATION PROVISIONS OF THE CONTRACT**

The completed and signed form should be returned with the Contractor's submittal. If not provided with submittal, the Contractor must submit within three business days of City's request. Contractor may be deemed non-responsive for failure to fully comply within stated timeframes.

Pursuant to City Ordinance Sec. 2-17(a)(i)(ii), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

- A. Contractors doing business with the City shall not discriminate against their employees based on the employee's race, color, religion, gender (including identity or expression), marital status, sexual orientation, national origin, age, disability, or any other protected classification as defined by applicable law.

Contracts. Every Contract exceeding \$100,000, or otherwise exempt from this section shall contain language that obligates the Contractor to comply with the applicable provisions of this section.

The Contract shall include provisions for the following:

- (i) The Contractor certifies and represents that it will comply with this section during the entire term of the contract.
- (ii) The failure of the Contractor to comply with this section shall be deemed to be a material breach of the contract, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.

Authorized Signature

Print Name and Title

Date



E-VERIFY AFFIRMATION STATEMENT

Solicitation/Bid /Contract No: _____

Project Description:

Contractor/Proposer/Bidder acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of,

- A. all persons employed by Contractor/Proposer/Bidder to perform employment duties within Florida during the term of the Contract, and,
- B. all persons (including subcontractors/vendors) assigned by Contractor/Proposer/Bidder to perform work pursuant to the Contract.

The Contractor/Proposer/Bidder acknowledges and agrees that use of the U.S. Department of Homeland Security's E-Verify System during the term of the Contract is a condition of the Contract.

Contractor/Proposer/ Bidder Company Name: _____

Authorized Company Person's Signature: _____

Authorized Company Person's Title: _____

Date: _____

CONSTRUCTION BID CERTIFICATION

Please Note: It is the sole responsibility of the bidder to ensure that his bid is submitted electronically through www.BidSync.com prior to the bid opening date and time listed. Paper bid submittals will not be accepted. All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the Department of State, in accordance with Florida Statute §607.1501 (visit <http://www.dos.state.fl.us/>).

Company: (Legal Registration)

Address:

City: State: Zip:

Telephone No.: FAX No.: Email:

Check box if your firm qualifies for MBE / SBE / WBE:

If a corporation, state the name of the President, Secretary and Resident Agent. If a partnership, state the names of all partners. If a trade name, state the names of the individuals who do business under the trade name.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Name	Title	Name	Title
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Name	Title	Name	Title

ADDENDUM ACKNOWLEDGEMENT - Bidder acknowledges that the following addenda have been received and are included in the proposal:

<u>Addendum No.</u>	<u>Date Issued</u>	<u>Addendum No.</u>	<u>Date Issued</u>	<u>Addendum No.</u>	<u>Date Issued</u>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

VARIANCES: If you take exception or have variances to any term, condition, specification, or requirement in this bid you must specify such variance in the space provided below or reference in the space provided below all variances contained on other pages within your bid. Additional pages may be attached if necessary. No variances will be deemed to be part of the bid submitted unless such is listed and contained in the space provided below. The City does not, by virtue of submitting a variance, necessarily accept any variances. If no statement is contained in the below space, it is hereby implied that your response is in full compliance with this competitive solicitation. If you do not have variances, simply mark N/A. **You must also click the "Take Exception" button.**

The below signatory affirms that he has or will obtain all required permits and licenses from the appropriate agencies, and that his firm is authorized to do business in the State of Florida. The below signatory agrees to furnish all labor, tools, material, equipment and supplies, and to sustain all the expense incurred in doing the work set forth in strict accordance with the bid plans and contract documents at the unit prices indicated if awarded a contract. The below signatory has not divulged to, discussed, or compared this bid with other bidders, and has not colluded with any other bidder or parties to this bid whatsoever. Furthermore, the undersigned guarantees the truth and accuracy of all statements and answers contained in this bid. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a bid, that in no event shall the City's liability for bidder's direct, indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of Five Hundred Dollars (\$500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

Name (printed)

Signature

Date

Title

EVENT #94
SOUTH OCEAN DRIVE BRIDGE REPLACEMENT (P12087 RE-BID)

BROWARD COUNTY SURTAX DOCUMENTS (See website below for required documents)

[Small Business Compliance \(broward.org\)](http://broward.org)

Application for Evaluation of Good Faith Efforts
CBE Final Monthly Utilization Report
County Business Enterprise (CBE) Monthly Utilization Report
Letter of Intent between Bidder/Offeror and CBE Firm/Supplier
Statement of CBE/SBE Assurance