



Event # 550-2

Name: Sebastian and Seville Seawall Replacement

Description: The City of Fort Lauderdale, Florida (City) is seeking bids from qualified, experienced, and licensed firm(s), hereinafter referred to as the Contractor, Bidder, or Proposer, to provide construction services for seawall improvements, stormwater improvements, mill and paving, maintenance of traffic (MOT) and striping improvements for the City, in accordance with the terms, conditions, and specifications contained in this Invitation to Bid (ITB).

This Project is located along Sebastian Street and Seville Street west of Birch Road, in the City of Fort Lauderdale. The work to be accomplished under this contract includes, but is not limited to; seawall improvements, stormwater improvements, mill and paving, maintenance of traffic (MOT) and striping improvements.

Buyer: HARDEN, SANTRECIA L.

Status: Pending Award

Event Type: IFB

Currency: USD

Sealed Bid: Yes

Respond To All Lines: Yes

Q & A Allowed: Yes

Number Of Amendments: 2

Display Bid Tabulation: Display When Event Closed For Bidding

Event Dates

Preview:

Q & A Open: 01/08/2026 02:01:00 PM

Open: 01/08/2026 02:00:00 PM

Q & A Close: 01/29/2026 05:00:00 PM

Close: 02/12/2026 02:00:00 PM

Dispute Close:

Questions

Question	Response Type	Attachment
Required Forms: Did you complete and signed all the Required Forms package? Please upload completed forms here.	Yes No	Event 550 - Required Forms.pdf
Reference Form: Did you complete the Reference Form? Please upload completed form here.	Yes No	City of Fort Lauderdale Reference Form.pdf
Licensing Requirements: Do you meet the Licensing Requirements of this solicitation? Please upload supporting documentation here.	Yes No	
Bid Security: Are you aware that this solicitation has a Bid Security requirement? Please upload supporting documentation here.	Yes No	

Event # 550-2: Sebastian and Seville Seawall Replacement

Question	Response Type	Attachment
Bid Security: Are you aware that this solicitation has a Bid Security requirement? Please upload supporting documentation here.	Yes No	
Insurance Requirements: Do you meet the Insurance Requirements of this solicitation? Please upload supporting documentation here.	Yes No	
Anti-Human Trafficking Affidavit: Not required at the time of bid response. It is required during contract execution with the awarded Bidder. Refer to the attached sample for reference. Are you willing to comply with this requirement?	Yes No	Anti-Human Trafficking Affidavit -Sample.pdf

Meetings

Meeting	Description	Location	Date	Required
Pre-Bid Conference	<p>Pre-Bid Conference Location: Changed To: City of Fort Lauderdale Procurement Services 16th Floor Conference Room 101 NE 3rd Avenue Fort Lauderdale, Florida 33301</p> <p>A site visit will follow after the pre-bid conference at: N. Birch Rd</p>	101 NE 3rd Avenue, Fort Lauderdale, Florida 33301	01/15/2026 10:00:00 AM	No

Attachments

Name	Attachment
Event 550 - Solicitation.pdf	Event 550 - Solicitation.pdf
Event 550 - Civil Set.pdf	Event 550 - Civil Set.pdf
Event 550 - Structural Set.pdf	Event 550 - Structural Set.pdf
Addendum No. 1 dated 01.09.26.pdf	Addendum No. 1 dated 01.09.26.pdf
Event 550 - Addendum No. 2 dated 01.21.26.pdf	Event 550 - Addendum No. 2 dated 01.21.26.pdf
Event 550 - Seawall Replacement Due Diligence Report.pdf	Event 550 - Seawall Replacement Due Diligence Report.pdf

Event # 550-2: Sebastian and Seville Seawall Replacement

Name	Attachment
Event 550 - Sebastian St Seawall Replacement SAV Report.pdf	Event 550 - Sebastian St Seawall Replacement SAV Report.pdf
Event 550 - Seville St Seawall Replacement SAV Report.pdf	Event 550 - Seville St Seawall Replacement SAV Report.pdf
Event 550 - Geotechnical Report.pdf	Event 550 - Geotechnical Report.pdf
Event 550 - FPL Utility Testholes Exhibit.pdf	Event 550 - FPL Utility Testholes Exhibit.pdf
Event 550 - Pre-Bid Meeting Sign-In Sheet.pdf	Event 550 - Pre-Bid Meeting Sign-In Sheet.pdf

Contacts

Name	Email Address
SANTRECIA HARDEN	saharden@fortlauderdale.gov

Commodity Codes

Commodity Code	Description
906-38	General Construction - Architectural
909	BUILDING CONSTRUCTION SERVICES, NEW (INCL. MAINTENANCE AND
959	MARINE CONSTRUCTION AND RELATED SERVICES; MARINE EQUIPMENT M
959-35	Construction Services, General (Marine)
959-39	Dam and Levee Construction, Maintenance, Management and Repa

Line Details

Line 1: MOBILIZATION

Description: Lump sum pay item for all mobilization for the construction of two (2) new steel sheet pile walls and upland improvements as shown on the contract plans. Mobilization will be paid at the following rates: a. 10% of contract completion - 25% of Mobilization. b. 25% of contract completion - 50% of Mobilization. c. 50% of contract completion - 100% of Mobilization.

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Item: MOBILIZATION MOBILIZATION

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

Line 2: MAINTENANCE OF TRAFFIC (MOT)

Description: Lump sum pay item for a Maintenance of Traffic (MOT) and includes all pedestrian access maintenance. All crosswalks and sidewalks shall remain open and free of obstructions. Temporary painting for roadways and crosswalks shall be maintained throughout the project. Costs shall include the use of flagmen. Contractor to prepare and submit for review a MOT Plan per phase of construction. The MOT plan shall be prepared by an FOOT certified individual. No work shall begin until the MOT plan has been approved by the City of Fort Lauderdale.

Item: MAINTENANCE OF TRAFFIC (MOT) MAINTENANCE OF TRAFFICE (MOT)

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

Line 3: CLEARING AND GRUBBING

Description: Lump sum pay item which includes all labor, materials, and equipment required for clearing and grubbing within project limits to

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facilitate seawall replacements, the replacement of existing drainage pipes and structures, and curb replacements. Work includes removal and disposal of vegetation, roots, and debris, as well as site preparation for construction access. All operations shall comply with project plans, specifications, and applicable regulations.

Item: CLEARING AND GRUBBING CLEARING AND GRUBBING

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

Line 4: TURBIDITY BARRIER/PROTECTION OF WATERWAY/STORMWATER POLLUTIO

Description: Lump sum pay item include a complete stormwater pollution prevention plan (SWPPP). Notice of Intent fees and compliance with any SWPPP reporting. Include furnishing, installation, maintenance, and removal of items, such as turbidity barriers/protection of waterway. Includes the maintenance and removal of the shoreside inlet sediment barriers.

Item: TURBIDITY BARRIER/PROTECTION OF POLLUTIO TURBIDITY BARRIER/PROTECTION OF WATERWAY/STORMWATER

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

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Line 5: VIBRATION MONITORING OF EXISTING STRUCTURES

Description: Includes the coordination of a third party inspector for monitoring of existing structures as shown on the Contract Plans.

Item: VIBRATION MONITORING OF EXISTING VIBRATION MONITORING OF EXISTING STRUCTURES

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

Quantity: 8.0000 **Unit of Measure:** MO

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

Line 6: AS-BUILTS (PROVIDED BY CONTRACTOR) - SEVILLE STREET

Description: Lump sum pay item which includes the preparation and submission of signed and sealed paving, grading, and drainage (PGD) and structural as-builts, prepared by a Florida registered surveyor, verifying all design information included on the design plans and accurately reflecting all field changes to the streets, seawalls, and stormwater systems.

Item: AS-BUILTS (PROVIDED BY CONTRACTOR) AS-BUILTS (PROVIDED BY CONTRACTOR) - SEVILLE STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

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Line 7: INLET SEDIMENT BARRIER - SEVILLE STREET

Description: The unit price for the furnishing and installation of the shore side inlet sediment barriers.

Item: INLET SEDIMENT BARRIER - SEVILLE INLET SEDIMENT BARRIER - SEVILLE STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

Quantity: 6.0000 **Unit of Measure:** EA

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

Line 8: CURB REMOVAL - SEVILLE STREET

Description: Includes the removal and disposal of existing concrete curb and base material necessary to prepare the area for the proposed curb construction. Any site areas impacted by the contractor outside of proposed concrete work, such as asphalt overlay, pavement markings, etc., will be restored by the contractor at no additional cost to the City.

Item: CURB REMOVAL - SEVILLE STREET CURB REMOVAL - SEVILLE STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

Quantity: 55.0000 **Unit of Measure:** LF

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

Event # 550-2: Sebastian and Seville Seawall Replacement

Line 9: MILL AND RESURFACING, 1" AVG. DEPTH - SEVILLE STREET

Description: Include milling the existing asphalt surface to an average depth of 1 inch and resurfacing with new asphalt pavement, including all labor, materials, equipment, and disposal of milled material. Work shall be performed in accordance with project specifications and shall ensure smooth transitions to adjacent surfaces and structures. All areas shall be cleaned, tack-coated, and resurfaced to restore proper grade and surface quality. Includes trench restoration including first lift of asphalt, second lift.

Item: MILL AND RESURFACING, 1" AVG. DE MILL AND RESURFACING, 1" AVG. DEPTH - SEVILLE STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

Quantity: 505.0000 **Unit of Measure:** SY

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 10: CONCRETE CURB - SEVILLE STREET

Description: Includes all cost to install curbs and corresponding required base and subgrade. Any site areas impacted by the contractor outside of proposed concrete work, such as asphalt overlay, pavement markings, etc., will be restored by the contractor at no additional cost to the City.

Item: CONCRETE CURB - SEVILLE STREET CONCRETE CURB - SEVILLE STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

Quantity: 55.0000 **Unit of Measure:** LF

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

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Add On No
Charges
Allowed:

Line 11: REFLECTIVE PAVEMENT MARKERS (RPMS) - SEVILLE STREET

Description: Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMS). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.

Item: REFLECTIVE PAVEMENT MARKERS (RPM) REFLECTIVE PAVEMENT MARKERS (RPMS) - SEVILLE STREET

Commodity 906-38 General Construction - Architectural
Code:

Manufacturer MFC **Division:** DIV
Code:

Quantity: 4.0000 **Unit of** EA
Measure:

Requested 06/01/2026
Delivery
Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Line 12: THERMOPLASTIC, STANDARD, SOLID 6" - SEVILLE STREET

Description: Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMS). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.

Item: THERMOPLASTIC, STANDARD, SOLID 6 THERMOPLASTIC, STANDARD, SOLID 6" - SEVILLE STREET

Commodity 906-38 General Construction - Architectural
Code:

Manufacturer MFC **Division:** DIV
Code:

Quantity: 100.0000 **Unit of** LF
Measure:

Requested 06/01/2026
Delivery
Date:

Event # 550-2: Sebastian and Seville Seawall Replacement

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 13: THERMOPLASTIC, STANDARD, SOLID 24" - SEVILLE STREET

Description: Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMs). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.

Item: THERMOPLASTIC, STANDARD, SOLID 2 THERMOPLASTIC, STANDARD, SOLID 24" - SEVILLE STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

Quantity: 18.0000

Unit of Measure: LF

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 14: SINGLE POST SIGN, INSTALL - SEVILLE STREET

Description: Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMs). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.

Item: SINGLE POST SIGN, INSTALL - SEVI SINGLE POST SIGN, INSTALL - SEVILLE STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

Quantity: 4.0000

Unit of Measure: EA

Requested Delivery Date: 06/01/2026

Event # 550-2: Sebastian and Seville Seawall Replacement

Delivery Date:

Require Response: Yes

Add On Charges Allowed: No

Price Breaks Allowed: No

Allow Alternate Responses: No

Line 15: TYPE 9 INLET - SEVILLE STREET

Description: Include all costs associated with installing inlets, catch basins, and manhole structures, and their corresponding pipe connections per the plans. These Bid Items shall include all associated excavation, protection of trench, management of excavated material, backfill and compaction, new fill, testing, and adjusting new manhole/utility covers per the plans and details.

Item: TYPE 9 INLET - SEVILLE STREET TYPE 9 INLET - SEVILLE STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 16: CATCH BASIN - SEVILLE STREET

Description: Include all costs associated with installing inlets, catch basins, and manhole structures, and their corresponding pipe connections per the plans. These Bid Items shall include all associated excavation, protection of trench, management of excavated material, backfill and compaction, new fill, testing, and adjusting new manhole/utility covers per the plans and details.

Item: CATCH BASIN - SEVILLE STREET CATCH BASIN - SEVILLE STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

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

Event # 550-2: Sebastian and Seville Seawall Replacement

Measure:

Requested Delivery Date: 06/01/2026

Require Response: Yes

Add On Charges Allowed: No

Price Breaks Allowed: No

Allow Alternate Responses: No

Line 17: DRAINAGE MANHOLE - SEVILLE STREET

Description: Include all costs associated with installing inlets, catch basins, and manhole structures, and their corresponding pipe connections per the plans. These Bid Items shall include all associated excavation, protection of trench, management of excavated material, backfill and compaction, new fill, testing, and adjusting new manhole/utility covers per the plans and details.

Item: DRAINAGE MANHOLE - SEVILLE STREE DRAINAGE MANHOLE - SEVILLE STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

Quantity: 2.0000

Unit of Measure: EA

Requested Delivery Date: 06/01/2026

Require Response: Yes

Add On Charges Allowed: No

Price Breaks Allowed: No

Allow Alternate Responses: No

Line 18: 18" HIGH-PERFORMANCE POLYPROPYLENE, INCLUDING TRENCH RESTORA

Description: Include all costs associated with installing pipe, trench excavation, protection of trench, use of trench box, management of excavated material, new lime rock and subbase as needed, complete trench backfills and compaction, testing, repair/replacement of site damage such as curbing, drop curb, and sidewalk impacted by construction per the plans and details. Trench restoration including first lift of asphalt, second lift to be included with mill & resurface bid items 9 and 26.

Item: 18" HIGH-PERFORMANCE POLYPROPYLE 18" HIGH-PERFORMANCE POLYPROPYLENE, INCLUDING TRENCH RESTORA

Commodity Code: 906-38 General Construction - Architectural

Event # 550-2: Sebastian and Seville Seawall Replacement

Manufacturer Code: MFC

Division: DIV

Quantity: 110.0000

Unit of Measure: LF

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 19: 36" HIGH-PERFORMANCE POLYPROPYLENE, INCLUDING TRENCH RESTORA

Description: Include all costs associated with installing pipe, trench excavation, protection of trench, use of trench box, management of excavated material, new lime rock and subbase as needed, complete trench backfills and compaction, testing, repair/replacement of site damage such as curbing, drop curb, and sidewalk impacted by construction per the plans and details. Trench restoration including first lift of asphalt, second lift to be included with mill & resurface bid items 9 and 26.

Item: 36" HIGH-PERFORMANCE POLYPROPYLENE 36" HIGH-PERFORMANCE POLYPROPYLENE, INCLUDING TRENCH RESTORA

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

Quantity: 130.0000

Unit of Measure: LF

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 20: OUTFALL - SEVILLE STREET

Description: Includes procurement of all materials for the full installation of the outfall through the sheet pile walls, the procurement and full installation of the manatee grates at the outfall locations, and all other requirements associated with these items in accordance with the Contract Plans and City details.

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Item: OUTFALL - SEVILLE STREET OUTFALL - SEVILLE STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

Quantity: 2.0000

Unit of Measure: EA

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 21: WAPRO INLINE CHECK VALVE 36" - SEVILLE STREET

Description: Includes all costs associated with the Inline Check Valves and their installations, as shown in the plans and per City details.

Item: WAPRO INLINE CHECK VALVE 36" - S WAPRO INLINE CHECK VALVE 36" - SEVILLE STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

Quantity: 1.0000

Unit of Measure: EA

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 22: WAPRO INLINE CHECK VALVE 18" - SEVILLE STREET

Description: Includes all costs associated with the Inline Check Valves and their installations, as shown in the plans and per City details.

Item: WAPRO INLINE CHECK VALVE 18" - S WAPRO INLINE CHECK VALVE 18" - SEVILLE STREET

Commodity Code: 906-38 General Construction - Architectural

Event # 550-2: Sebastian and Seville Seawall Replacement

Code:
Manufacturer Code: MFC **Division:** DIV
Quantity: 1.0000 **Unit of Measure:** EA
Requested Delivery Date: 06/01/2026
Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No
Add On Charges Allowed: No

Line 23: MANATEE GRATE - SEVILLE STREET

Description: Includes procurement of all materials for the full installation of the outfall through the sheet pile walls, the procurement and full installation of the manatee grates at the outfall locations, and all other requirements associated with these items in accordance with the Contract Plans and City details.

Item: MANATEE GRATE - SEVILLE STREET MANATEE GRATE - SEVILLE STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV
Quantity: 2.0000 **Unit of Measure:** EA
Requested Delivery Date: 06/01/2026
Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No
Add On Charges Allowed: No

Line 24: DEMOLITION OF SEVILLE STREET EXISTING CAP/BATTERED PILES

Description: Include procurement of all materials and labor for the full installation of sheet pile walls, concrete caps, reinforcement, and all other requirements in accordance with the Contract Plans. This also includes the demolition and removal of existing seawall caps and battered piles, and the contractor shall include costs of all required third-party testing as part of the installation cost.

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Item: DEMOLITION OF SEVILLE STREET EXI DEMOLITION OF SEVILLE STREET EXISTING CAP/BATTERED PILES

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

Line 25: SEVILLE STREET CONCRETE CAP

Description: Include procurement of all materials and labor for the full installation of sheet pile walls, concrete caps, reinforcement, and all other requirements in accordance with the Contract Plans. This also includes the demolition and removal of existing seawall caps and battered piles, and the contractor shall include costs of all required third-party testing as part of the installation cost.

Item: SEVILLE STREET CONCRETE CAP SEVILLE STREET CONCRETE CAP

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

Line 26: SEVILLE STREET - PIPE PENETRATION DETAILS

Description: Include procurement of all materials and labor for the full installation of sheet pile walls, concrete caps, reinforcement, and all other requirements in accordance with the Contract Plans. This also includes the demolition and removal of existing seawall caps and battered piles, and the contractor shall include costs of all required third-party testing as part of the installation cost.

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Includes trench restoration including first lift of asphalt, second lift.

Item: SEVILLE STREET - PIPE PENETRATIO SEVILLE STREET - PIPE PENETRATION DETAILS

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

Line 27: SEVILLE STREET SHEET PILE WALL F&I

Description: Include procurement of all materials and labor for the full installation of sheet pile walls, concrete caps, reinforcement, and all other requirements in accordance with the Contract Plans. This also includes the demolition and removal of existing seawall caps and battered piles, and the contractor shall include costs of all required third-party testing as part of the installation cost.

Item: SEVILLE STREET SHEET PILE WALL F SEVILLE STREET SHEET PILE WALL F&I

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

Line 28: INLET SEDIMENT BARRIER - SEBASTIAN STREET

Event # 550-2: Sebastian and Seville Seawall Replacement

Description: The unit price for the furnishing and installation of the shore side inlet sediment barriers.

Item: INLET SEDIMENT BARRIER - SEBASTI INLET SEDIMENT BARRIER - SEBASTIAN STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

Quantity: 7.0000 **Unit of Measure:** EA

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

Line 29: CURB REMOVAL - SEBASTIAN STREET

Description: Includes the removal and disposal of existing concrete curb and base material necessary to prepare the area for the proposed curb construction. Any site areas impacted by the contractor outside of proposed concrete work, such as asphalt overlay, pavement markings, etc., will be restored by the contractor at no additional cost to the City.

Item: CURB REMOVAL - SEBASTIAN STREET CURB REMOVAL - SEBASTIAN STREET

Long Item Description: Bid Line 29

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

Quantity: 25.0000 **Unit of Measure:** LF

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

Event # 550-2: Sebastian and Seville Seawall Replacement

Line 30: MILL AND RESURFACING, 1" AVG. DEPTH - SEBASTIAN STREET

Description: Include milling the existing asphalt surface to an average depth of 1 inch and resurfacing with new asphalt pavement, including all labor, materials, equipment, and disposal of milled material. Work shall be performed in accordance with project specifications and shall ensure smooth transitions to adjacent surfaces and structures. All areas shall be cleaned, tack-coated, and resurfaced to restore proper grade and surface quality.

Item: MILL AND RESURFACING, 1" AVG. DE MILL AND RESURFACING, 1" AVG. DEPTH - SEBASTIAN STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

Quantity: 1,005.0000 **Unit of Measure:** SY

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 31: CONCRETE CURB - SEBASTIAN STREET

Description: Includes all cost to install curbs and corresponding required base and subgrade. Any site areas impacted by the contractor outside of proposed concrete work, such as asphalt overlay, pavement markings, etc., will be restored by the contractor at no additional cost to the City.

Item: CONCRETE CURB - SEBASTIAN STREET CONCRETE CURB - SEBASTIAN STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

Quantity: 25.0000 **Unit of Measure:** LF

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges: No

Event # 550-2: Sebastian and Seville Seawall Replacement

Allowed:

Line 32: REFLECTIVE PAVEMENT MARKERS (RPMS) - SEBASTIAN STREET

Description: Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMS). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.

Item: REFLECTIVE PAVEMENT MARKERS (RPM) REFLECTIVE PAVEMENT MARKERS (RPMS) - SEBASTIAN STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

Quantity: 4.0000 **Unit of Measure:** EA

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 33: ADA PAVEMENT MARKING - SEBASTIAN STREET

Description: Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMS). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.

Item: ADA PAVEMENT MARKING - SEBASTIAN ADA PAVEMENT MARKING - SEBASTIAN STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Event # 550-2: Sebastian and Seville Seawall Replacement

Add On No
Charges
Allowed:

Line 34: THERMOPLASTIC, STANDARD, SOLID 6" - SEBASTIAN STREET

Description: Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMs). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.

Item: THERMOPLASTIC, STANDARD, SOLID 6 THERMOPLASTIC, STANDARD, SOLID 6" - SEBASTIAN STREET

Commodity 906-38 General Construction - Architectural
Code:

Manufacturer MFC **Division:** DIV
Code:

Quantity: 435.0000 **Unit of** LF
Measure:

Requested 06/01/2026
Delivery
Date:

Require Yes
Response:

Price Breaks No
Allowed:

Allow Alternate No
Responses:

Add On No
Charges
Allowed:

Line 35: THERMOPLASTIC, STANDARD, SOLID 24" - SEBASTIAN STREET

Description: Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMs). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.

Item: THERMOPLASTIC, STANDARD, SOLID 2 THERMOPLASTIC, STANDARD, SOLID 24" - SEBASTIAN STREET

Commodity 906-38 General Construction - Architectural
Code:

Manufacturer MFC **Division:** DIV
Code:

Quantity: 18.0000 **Unit of** LF
Measure:

Requested 06/01/2026
Delivery
Date:

Event # 550-2: Sebastian and Seville Seawall Replacement

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 36: SINGLE POST SIGN, INSTALL - SEBASTIAN STREET

Description: Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMs). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.

Item: SINGLE POST SIGN, INSTALL - SEBA SINGLE POST SIGN, INSTALL - SEBASTIAN STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

Quantity: 3.0000

Unit of Measure: EA

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 37: WHEEL STOP - SEBASTIAN STREET

Description: Includes the furnishing and installation of precast concrete wheel stops at locations shown on the plans, complete with all labor, materials, equipment, and hardware. Installation shall include proper alignment, anchoring into existing pavement per manufacturer specifications, and compliance with code requirements. Any site areas impacted by the contractor outside of proposed wheel stop installation, such as asphalt overlay, pavement markings, concrete pavement, etc., will be restored by the contractor at no additional cost to the City.

Item: WHEEL STOP - SEBASTIAN STREET WHEEL STOP - SEBASTIAN STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

Quantity: 12.0000

Unit of Measure: EA

Event # 550-2: Sebastian and Seville Seawall Replacement

Requested Delivery Date: 06/01/2026

Require Response: Yes

Add On Charges Allowed: No

Price Breaks Allowed: No

Allow Alternate Responses: No

Line 38: TYPE 9 INLET - SEBASTIAN STREET

Description: Include all costs associated with installing inlets, catch basins, and manhole structures, and their corresponding pipe connections per the plans. These Bid Items shall include all associated excavation, protection of trench, management of excavated material, backfill and compaction, new fill, testing, and adjusting new manhole/utility covers per the plans and details.

Item: TYPE 9 INLET - SEBASTIAN STREET TYPE 9 INLET - SEBASTIAN STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

Quantity: 2.0000

Unit of Measure: EA

Requested Delivery Date: 06/01/2026

Require Response: Yes

Add On Charges Allowed: No

Price Breaks Allowed: No

Allow Alternate Responses: No

Line 39: CATCH BASIN - SEBASTIAN STREET

Description: Include all costs associated with installing inlets, catch basins, and manhole structures, and their corresponding pipe connections per the plans. These Bid Items shall include all associated excavation, protection of trench, management of excavated material, backfill and compaction, new fill, testing, and adjusting new manhole/utility covers per the plans and details.

Item: CATCH BASIN - SEBASTIAN STREET CATCH BASIN - SEBASTIAN STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

Event # 550-2: Sebastian and Seville Seawall Replacement

Quantity: 3.0000

Unit of Measure: EA

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 40: DRAINAGE MANHOLE - SEBASTIAN STREET

Description: Include all costs associated with installing inlets, catch basins, and manhole structures, and their corresponding pipe connections per the plans. These Bid Items shall include all associated excavation, protection of trench, management of excavated material, backfill and compaction, new fill, testing, and adjusting new manhole/utility covers per the plans and details.

Item: DRAINAGE MANHOLE - SEBASTIAN STR DRAINAGE MANHOLE - SEBASTIAN STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

Quantity: 2.0000

Unit of Measure: EA

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 41: 18" HIGH-PERFORMANCE POLYPROPYLENE, INCLUDING TRENCH RESTORA

Description: Include all costs associated with installing pipe, trench excavation, protection of trench, use of trench box, management of excavated material, new lime rock and subbase as needed, complete trench backfills and compaction, testing, repair/replacement of site damage such as curbing, drop curb, and sidewalk impacted by construction per the plans and details. Trench restoration including first lift of asphalt, second lift to be included with mill & resurface bid items 9 and 26.

Item: 18" HIGH-PERFORMANCE POLYPROPYLE 18" HIGH-PERFORMANCE POLYPROPYLENE, INCLUDING TRENCH RESTORA

Commodity 906-38 General Construction - Architectural

Event # 550-2: Sebastian and Seville Seawall Replacement

Code:
Manufacturer Code: MFC **Division:** DIV
Quantity: 175.0000 **Unit of Measure:** LF
Requested Delivery Date: 06/01/2026
Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No
Add On Charges Allowed: No

Line 42: 24" HIGH-PERFORMANCE POLYPROPYLENE, INCLUDING TRENCH RESTORA

Description: Include all costs associated with installing pipe, trench excavation, protection of trench, use of trench box, management of excavated material, new lime rock and subbase as needed, complete trench backfills and compaction, testing, repair/replacement of site damage such as curbing, drop curb, and sidewalk impacted by construction per the plans and details. Trench restoration including first lift of asphalt, second lift to be included with mill & resurface bid items 9 and 26.

Item: 24" HIGH-PERFORMANCE POLYPROPYLENE 24" HIGH-PERFORMANCE POLYPROPYLENE, INCLUDING TRENCH RESTORA

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV
Quantity: 185.0000 **Unit of Measure:** LF
Requested Delivery Date: 06/01/2026
Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No
Add On Charges Allowed: No

Line 43: OUTFALL - SEBASTIAN STREET

Description: Includes procurement of all materials for the full installation of the outfall through the sheet pile walls, the procurement and full installation of the manatee grates at the outfall locations, and all other requirements associated with these items in accordance with the Contract Plans and City details.

Event # 550-2: Sebastian and Seville Seawall Replacement

Item: OUTFALL - SEBASTIAN STREET OUTFALL - SEBASTIAN STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 44: WAPRO INLINE CHECK VALVE 24" - SEBASTIAN STREET

Description: Includes all costs associated with the Inline Check Valves and their installations, as shown in the plans and per City details.

Item: WAPRO INLINE CHECK VALVE 24" - S WAPRO INLINE CHECK VALVE 24" - SEBASTIAN STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 45: WAPRO INLINE CHECK VALVE 18" - SEBASTIAN STREET

Description: Includes all costs associated with the Inline Check Valves and their installations, as shown in the plans and per City details.

Item: WAPRO INLINE CHECK VALVE 18" - S WAPRO INLINE CHECK VALVE 18" - SEBASTIAN STREET

Event # 550-2: Sebastian and Seville Seawall Replacement

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

Line 46: MANATEE GRATE - SEBASTIAN STREET

Description: Includes procurement of all materials for the full installation of the outfall through the sheet pile walls, the procurement and full installation of the manatee grates at the outfall locations, and all other requirements associated with these items in accordance with the Contract Plans and City details.

Item: MANATEE GRATE - SEBASTIAN STREET MANATEE GRATE - SEBASTIAN STREET

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

Line 47: DEMOLITION OF SEBASTIAN STREET EXISTING CAP

Description: Include procurement of all materials and labor for the full installation of sheet pile walls, concrete caps, reinforcement, and all other requirements in accordance with the Contract Plans. This also includes the demolition and removal of existing seawall caps and battered piles, and the contractor shall include costs of all required third-party testing as part of the installation cost.

Event # 550-2: Sebastian and Seville Seawall Replacement

Item: DEMOLITION OF SEBASTIAN STREET E DEMOLITION OF SEBASTIAN STREET EXISTING CAP

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

Line 48: SEBASTIAN STREET SHEET PILE WALL F&I

Description: Include procurement of all materials and labor for the full installation of sheet pile walls, concrete caps, reinforcement, and all other requirements in accordance with the Contract Plans. This also includes the demolition and removal of existing seawall caps and battered piles, and the contractor shall include costs of all required third-party testing as part of the installation cost.

Item: SEBASTIAN STREET SHEET PILE WALL SEBASTIAN STREET SHEET PILE WALL F&I

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC **Division:** DIV

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

Requested Delivery Date: 06/01/2026

Require Response: Yes **Price Breaks Allowed:** No **Allow Alternate Responses:** No

Add On Charges Allowed: No

Line 49: SEBASTIAN STREET CONCRETE CAP

Description: Include procurement of all materials and labor for the full installation of sheet pile walls, concrete caps, reinforcement, and all other requirements in accordance with the Contract Plans. This also includes the demolition and removal of existing seawall caps and battered piles, and the contractor shall include costs of all required third-party testing as part of the installation cost.

Event # 550-2: Sebastian and Seville Seawall Replacement

Item: SEBASTIAN STREET CONCRETE CAP SEBASTIAN STREET CONCRETE CAP

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

Quantity: 1.0000

Unit of Measure: LS

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

Line 50: SEBASTIAN STREET - PIPE PENETRATION DETAILS

Description: Include procurement of all materials and labor for the full installation of sheet pile walls, concrete caps, reinforcement, and all other requirements in accordance with the Contract Plans. This also includes the demolition and removal of existing seawall caps and battered piles, and the contractor shall include costs of all required third-party testing as part of the installation cost.

Item: SEBASTIAN STREET - PIPE PENETRAT SEBASTIAN STREET - PIPE PENETRATION DETAILS

Commodity Code: 906-38 General Construction - Architectural

Manufacturer Code: MFC

Division: DIV

Quantity: 2.0000

Unit of Measure: EA

Requested Delivery Date: 06/01/2026

Require Response: Yes

Price Breaks Allowed: No

Allow Alternate Responses: No

Add On Charges Allowed: No

CITY OF FORT LAUDERDALE
CONTRACT AND SPECIFICATIONS PACKAGE

BID/EVENT NO. 550

PROJECT NO. P13008

**Sebastian and Seville
Seawall Replacement**



Santrecia Harden
Senior Procurement Specialist
Telephone: (954) 828-5169 E-mail: saharden@fortlauderdale.gov

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

- Affidavit of Compliance with Foreign Entity Laws
- CITB Questionnaire Sheet
- CITB Reference Form
- CITB Trench Safety
- City of Fort Lauderdale Bid/Proposal Construction Bid Certification Page
- Contract Payment Method
- E-Verify Statement
- Non-Collusion Statement
- Non-Discrimination Certification Form
- Drug Free Workplace Certification

INVITATION TO BID

Sealed bids will be received electronically until **2:00 p.m.**, local time, on **Thursday, February 12, 2026**, and opened online immediately thereafter for **BID/EVENT NO. 550, PROJECT NO. P13008, for Sebastian and Seville Seawall Replacement.**

Please be advised that effective immediately, and until further notice, all Invitation to Bids, Request for Proposals, Request for Qualifications, and other solicitations led by the City of Fort Lauderdale will be opened electronically via the [City's on-line strategic sourcing platform](#) at the date and time indicated on the solicitation. All openings will be held on the City's on-line strategic sourcing platform.

In the event of any conflict or discrepancy between bid price(s) submitted by bidder electronically into the City's online strategic sourcing platform Unit Price field(s), any other forms or attachments (whether part of the City's solicitation documents or documents created and uploaded by the bidder, or another section/field of the System, the online unit price(s) **inputted** electronically into the System by the bidder shall govern.

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) forum on the City's online strategic sourcing platform before the Last Day for Questions indicated in the Solicitation.

This Project is located along Sebastian Street and Seville Street west of Birch Road, in the City of Fort Lauderdale. The work to be accomplished under this contract includes, but is not limited to; seawall improvements, stormwater improvements, mill and paving, maintenance of traffic (MOT) and striping improvements.

THE FOLLOWING IS APPLICABLE TO THIS SOLICITATION IF CHECKED:

- LUMP SUM BID** - City shall pay awarded bidder the Contract Price for the performance of work described in this Invitation for Bid. Payment shall be at the lump sum price stated in this Invitation to Bid and/or resultant contract. This price shall be full compensation for all costs, including overhead and profit, associated with completion of all work in full conformity with the requirements as stated or shown, or both, in the contract documents. The cost of any item of work not covered in this solicitation shall still be provided and the cost borne by the contractor. **NO CHANGE ORDERS WILL BE ALLOWED UNLESS IT IS OWNER-DRIVEN AND INITIATED BY THE CITY.**
-

Drawing Plans: This Project consists of **Drawing File No. 4-142-78, twenty-nine (29) sheets.** Drawing plans may be obtained **free of charge** at the City's online strategic sourcing platform.

Licensing Requirements:

Possession of a State of Florida Certified General Contractor License is required for this Project.

OR

Any other State or County License(s), Certification(s) or Registration(s) deemed legally permissible by the City to conduct the nature of the work required in this solicitation.

Any sub-contractors employed by the Proposer shall be licensed and insured in accordance with this solicitation. Additionally, it is the Proposer's responsibility for ensuring that any sub-contractors' work meets the requirements of this solicitation at all times.

NOTE: Payment on this contract will be made by Visa or MasterCard.

Pre-Bid Conference: A pre-bid conference will be held as follows:

Date: Thursday, January 15, 2026,
Time: 10:00 AM (E.S.T.)
Location: Fort Lauderdale Aquatic Center
501 Seabreeze Blvd.
Fort Lauderdale, Florida 33316

Site Visit: A **site visit** will follow after the pre-bid conference at:

North Birch Road & Seville Street, Fort Lauderdale, FL 33304, then followed by North Birch Road & Sebastian Street, Fort Lauderdale, FL 33304.

While attendance is not mandatory, tours at other times might not be available. It is the sole responsibility of the Contractor to become familiar with the scope of the City's requirements and systems prior to submitting a bid. No variation in price or conditions shall be permitted based upon a claim of ignorance. It is strongly suggested that all Bidders attend the pre-bid meeting and/or site visit.

It will be the sole responsibility of the Bidder to attend the pre-bid/site visit to inspect the City's location(s) facilities systems prior to submitting a bid. 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 themselves with the nature and extent of the work, equipment, materials, and labor required.

If a person decides to appeal any decision made by the board, agency, or commission with respect to any matter considered at such meeting or hearing, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

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 **upload** their original executed bid bond on the City's online strategic sourcing platform to accompany their electronic bids and deliver the original, signed and sealed hard copy to the Procurement Services Department, 101 NE 3rd Avenue, Suite 1650, 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.

- 2) Bidders can **hand deliver** their original, signed and sealed bid bond in a sealed envelope to the Procurement Services Department, 101 NE 3rd Avenue, Suite 1650, Fort Lauderdale, Florida 33301-1016, **before time of bid opening**, with the company name, bid number and title clearly indicated on the envelope.
- 3) Bidders can **mail** their original, signed and sealed bid bond to the Procurement Services Department, 101 NE 3rd Avenue, Suite 1650, 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 Procurement Services Department, 101 NE 3rd Avenue, Suite 1650, 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 Department before the time of bid opening. Failure to adhere to this requirement may be grounds to consider the bid as non-responsive.

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 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.

-END OF SECTION-

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 who 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 or City staff shall relieve the Contractor from any risk or from fulfilling all terms of the contract.

INCONSISTENCIES - Any inconsistency between different provisions of the plans, specifications, bid 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 bids. After bids 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 its 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 it 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 and the Charter and the ordinances of the City of Fort Lauderdale.

PUBLIC ENTITY CRIMES - 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 on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids 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 from the date of being placed on the convicted vendor list.

FORMS OF BIDS - Each bid and its accompanying statements **MUST BE SUBMITTED ELECTRONICALLY, IN GOOD ORDER WITH ALL BLANKS COMPLETED,** and must show the name of the bidder and a statement as to its contents. In the event of any conflict or discrepancy between bid price(s) submitted by bidder electronically into the City's online strategic sourcing platform Unit Price

field(s), any other forms or attachments (whether part of the City's solicitation documents or documents created and uploaded by the bidder, or another section/field of the System, the online unit price(s) **inputted** electronically into the System by the bidder shall govern.

The bid 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 bid. No bid 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 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 to or fails to enter into a contract for the execution of the work solicited in this Invitation to Bid.

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 good and sufficient bonds.

Following the full execution of a contract for the work solicited in this Invitation to Bid and the successful bidder's provision of good and sufficient bonds, 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 and furnish the required bonds within ten (10) days after the City provides notice to the successful bidder to deliver the executed contract and the required bonds, the bid bond shall immediately be payable to the City of Fort Lauderdale, or in the case of a check, the City shall 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 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 bid. In the event of any conflict or discrepancy between bid price(s) submitted by bidder electronically into the City's online strategic sourcing platform Unit Price field(s), any other forms or attachments (whether part of the City's solicitation documents or documents created and uploaded by the bidder, or another section/field of the System, the online unit price(s) **inputted** electronically into the System by the bidder shall govern.

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 shall award contract within this time period or shall request to 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 cost to the City for approval prior to proceeding with the work.

TERMINATION 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 bid will be canvassed, considered or accepted which, in the opinion of the City 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 bid 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 bid 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.

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 Services Department – Chief Procurement Officer / Procurement Director, 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-i-z/procurement-services/notices-of-intent-to-award-reject>.

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_A_RTVFI_DIV2PR_S2-182DIREPRAWINAW.

WITHDRAWALS - Any bidder may, without prejudice to himself, withdraw its bid 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 bid. After expiration of the period for receiving bids, no bids 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 receiving such contract for execution. 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 responsive and responsible, 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 completion of the work and receipt of final payment.

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 - Drawing plans may be obtained **free of charge** from the City's on-line strategic sourcing platform.

SURETY BOND - The Contractor shall execute and record in the public records of Broward County, Florida, a payment and performance 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, ("Bond"), in accordance with Section 255.05, Florida Statutes (2024), 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 successful bidder shall furnish a performance and payment bond in compliance with Section 255.05, Florida Statutes (2026), written by a Corporate Surety company, holding a Certificate of Authority from the Secretary of the Treasury of the United States as acceptable sureties on federal bonds, 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 Corporate Surety, conditioned for the due and faithful performance of the work, and providing in addition to all other conditions, that if the Contractor, or his or its subcontractors, fail to duly pay for any labor, materials, or other supplies used or consumed by such Contractor, or his or its subcontractor or 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 they shall indemnify and hold harmless the City of Fort Lauderdale to the extent of any and all payments in connection with carrying out of the contract, which the City may be required to make under the law.

The Contractor is required at all times to have a valid surety 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. A bond written by a surety, which becomes disqualified to do business in the State of Florida, shall automatically constitute a failure on the part of the Contractor to meet the above requirements.

Such bond shall continue in effect for one (1) year after completion and acceptance of the work 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, 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 - 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, Florida Statutes (2024).

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.

LOCAL BUSINESS PREFERENCE - Not applicable to this solicitation.

DISADVANTAGED BUSINESS ENTERPRISE PREFERENCE - Not applicable to this solicitation.

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

LOBBYING ACTIVITIES - **ALL CONTRACTORS PLEASE NOTE:** Any contractor submitting a response to this solicitation must comply, if applicable, with City of Fort Lauderdale Ordinance No. C-11-42 & Resolution No. 07-101, Lobbying Activities. Copies of Ordinance No., C-11-42, and Resolution No. 07-101, may be obtained from the City Clerk's Office at 1 East Broward Boulevard, Suite 444, Fort Lauderdale, Florida 33301.

The Ordinance may also be viewed on the City's website at: <https://www.fortlauderdale.gov/home/showdocument?id=6036>.

-END OF SECTION-

ITB-8

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 bid of the Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

"Bidder" - shall mean any person, firm, company, corporation or entity submitting a bid for the Work.

"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" - 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 a person, firm, company, corporation or other entity employed by the City to perform 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 Solicitation prepared either by the City or by the Consultant under a separate Agreement with the City.

"Engineer" - shall include 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" - 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

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 his 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.

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 City of Fort Lauderdale's Code of Ordinances.

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.

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 employees' 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 City 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.

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 subcontractors 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 RIGHT-OF-WAY - Whenever a City contractor is constructing within the Florida East Coast Railway Company's Right-of-Way, it will be mandatory that the contractor carry bodily injury and property damage insurance in amounts satisfactory to the Florida East Coast Company. This insurance requirement shall be verified by the contractor with the Florida East Coast Company 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 aide 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 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.

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.

All traffic control devices, flashing lights, signs and barricades shall be maintained in working condition at all times and conform to 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 hydrant meter at Treasury Billing Office, 1st Floor, City Hall, 100 N. Andrews Avenue. With the paid receipt, contractor can pick up hydrant meter 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 Iran Terrorism Sectors List, created pursuant to Section 215.473, Florida Statutes (2026), as may be amended or revised, and that it does not have business operations in Cuba or Syria, as provided in Section 287.135, Florida Statutes (2026), as may be amended or revised. The Contractor also certifies that it is not participating in a boycott of Israel, as provided in Section 287.135, Florida Statutes (2026). 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 (2026), as may be amended or revised, or been placed on the Scrutinized Companies with Activities in Sudan List, or been placed on a list created pursuant to Section 215.473, Florida Statutes (2026), as may be amended or revised, relating to scrutinized active business operations in Iran, or been placed on the Scrutinized Companies or Other Entities that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2026), 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 (2026), as may be amended or revised. In addition, if the Contractor is found to have submitted a false certification as provided under subsection (5) of Section 287.135, Florida Statutes (2026), as may be amended or revised, the Contractor may be subject to such penalties as provided in Section 287.135, Florida Statutes (2026), as may be amended or revised.

By submitting a bid or response, the company, principals, or owners certify that it is not listed on the Scrutinized Companies with Activities in Sudan List or listed on the Scrutinized Companies with

Activities in the Iran Petroleum Energy Sector List or is engaged in business operations in Cuba or Syria.

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 they will comply with section 255.20 (3) Florida Statutes.

GC - 34 - PUBLIC RECORDS/TRADE SECRETS/COPYRIGHT - The Proposer's response to the Solicitation is a public record pursuant to Florida law, which is subject to disclosure by the City under the State of Florida Public Records Law, Florida Statutes Chapter 119.07 ("Public Records Law"). The City shall permit public access to all documents, papers, letters or other material submitted in connection with this Solicitation and the Contract to be executed for this Solicitation, subject to the provisions of Chapter 119.07 of the Florida Statutes.

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 Florida Statutes Chapter 119.07 ("Public Records Laws"), 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 Statutes 119.07. 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, 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, 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.

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES (2024), 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
1 East Broward Boulevard, Suite 444
Fort Lauderdale, FL 33301

E-mail: prcontract@fortlauderdale.gov

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.
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 - ANTI-HUMAN TRAFFICKING, KIDNAPPING, CUSTODY AND RELATED OFFENSES -

Bidder, proposer, quoter, or any other respondent to any City solicitation/notice or serving as a City consultant, contractor, vendor or otherwise entering into any contract (including, without limitation, contract renewal, extension, amendment as applicable) with the City affirms and stipulates that it is not in violation of Section 787.06(13) of the 2024 Florida Statutes entitled "Kidnapping; Custody Offenses; Human Trafficking and Related Offenses." The entity (which includes any business entity however formed/ incorporated) intending to provide goods or services by submitting a response to a city solicitation further affirms to the City as a governmental entity defined in Section 287.138(1) of the 2024 Florida Statutes that it does not use coercion for labor or services as defined in Section 787.06 of the 2024 Florida Statutes.

GC- 36 - E-Verify

In accordance with Section 448.095, Florida Statutes (2024), 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 (2024), 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(5), Florida Statutes (2024), as may be amended or revised, but that the Contractor otherwise complied with Subsection 448.095(5), Florida Statutes (2024), 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(5)(c)1. or 2., Florida Statutes (2024), 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(5)(c), Florida Statutes (2024), 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, including this subparagraph, requiring any and all subcontractors, as defined in Subsection 448.095(1)(e), Florida Statutes (2024), as may be amended or revised, to include all of the requirements of this Section in their subcontracts. Contractor shall be responsible for compliance by any and all subcontractors, as defined in Subsection 448.095(1)(e), Florida Statutes (2024), as may be amended or revised, with the requirements of Section 448.095, Florida Statutes (2024), as may be amended or revised.

-END OF SECTION-

SPECIAL CONDITIONS

01. PURPOSE

The City of Fort Lauderdale, Florida (City) is seeking bids from qualified, experienced, and licensed firm(s), hereinafter referred to as the Contractor, Bidder, or Proposer, to provide construction services for seawall improvements, stormwater improvements, mill and paving, maintenance of traffic (MOT) and striping improvements for the City, 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](#) INFOR, 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](#), and that any bid security reaches the City of Fort Lauderdale, Procurement Services Department, 101 North East 3rd Avenue, Suite 1650, Fort Lauderdale, Florida 33301-1016, in a sealed envelope marked on the outside with the ITB solicitation number and Contractor's name, no later than the time and date specified in this solicitation. **PAPER BID SUBMITTALS WILL NOT BE ACCEPTED. PLEASE SUBMIT YOUR BID RESPONSE ELECTRONICALLY.** In the event of any conflict or discrepancy between bid price(s) submitted by bidder electronically into the City's online strategic sourcing platform Unit Price field(s), any other forms or attachments (whether part of the City's solicitation documents or documents created and uploaded by the bidder, or another section/field of the System, the online unit price(s) **inputted** electronically into the System by the bidder shall govern.

04. INFORMATION OR CLARIFICATION

For information concerning [procedures for responding to this solicitation](#), contact Senior Procurement Specialist, Santrecia Harden at (954) 828-5169 or email at saharden@fortlauderdale.gov. Such contact shall be for clarification purposes only.

For information concerning technical specifications, please utilize the question / answer feature provided by 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. Contractors please note: Bids shall be submitted as stated in PART IV – Submittal Requirements. No part of your proposal 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 Contractor has familiarized themselves 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

5.1 The Contractor recognizes that TIME IS OF THE ESSENCE. The Work shall commence within **THIRTY (30)** calendar days of the date of the Notice to Proceed.

- 5.2 The Work shall be Substantially Completed within **TWO HUNDRED FORTY (240)** calendar days after the date when the Contract Time commences to run as provided in the Notice to Proceed.
- 5.3 The Work shall be finally completed on the Final Completion Date and ready for final payment in accordance with this Agreement within **TWO HUNDRED SEVENTY (270)** calendar days after the Contract Time commences to run as provided in the Notice to Proceed.

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. REQUIRED LICENSES/CERTIFICATIONS

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

State of Florida Certified General Contractor License

OR

Any other State or County License(s), Certification(s) or Registration(s) deemed legally permissible by the City to conduct the nature of the work required in this solicitation.

Any sub-contractors employed by the Proposer shall be licensed and insured in accordance with this solicitation. Additionally, it is the Proposer's responsibility for ensuring that any sub-contractors' work meets the requirements of this solicitation at all times.

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

08. 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 five (5) years of previous construction experience in, but not limited to, storm drainage pipe installation ranging from 12 inches to 48 inches, sheet pile driving, seawall construction, milling and paving, Maintenance of Traffic (MOT) 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: REFERENCES SHALL INCLUDE ONLY ONE (1) CITY OF FORT LAUDERDALE EMPLOYEE OR WORK PERFORMED FOR THE CITY. THE CITY IS ALSO INTERESTED IN WORK EXPERIENCE AND REFERENCES FROM ENTITIES OTHER THAN THE CITY OF FORT LAUDERDALE.

By signing this bid solicitation, contractor is affirming that this expertise will be provided for this Contract at no additional charge.

09. 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’s permit fees required for project completion.

Allowances	Amount
Landscaping	\$15,000.00
Geotechnical Services	\$5,000.00
TOTAL:	\$20,000.00

Contingencies	Amount
Unforeseen Conditions	\$140,000.00
TOTAL:	\$160,000.00

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

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 shall, at its sole expense, 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 for this Agreement. 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:

Professional Liability

Coverage must be afforded for Wrongful Acts in an amount not less than \$1,000,000 each claim and \$2,000,000 aggregate.

Contractor must keep the professional liability insurance in force until the third anniversary of expiration or early termination of this Agreement or the third anniversary of acceptance of work by the City, whichever is longer, which obligation shall survive expiration or early termination of this Agreement.

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 included 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 \$1,000,000 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.

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.

Inland Marine/Installation Floater

Coverage shall be purchased for all risks of damage or other loss, including transport, storage, loading and unloading, and installation, to materials or movable property while in the care, custody, and control of Contractor. Coverage form must be on a direct primary basis with limits equal to the highest possible replacement cost value of materials or movable property in the care, custody, and control of Contractor.

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. Contractors ineligible for a State exemption certificate agree that they are excluded from any benefits, from the City, afforded under Chapter 440, Florida Statutes.

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 included as an Additional Insured on all liability policies, with the exception of Professional Liability and 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, or other identifying reference must be listed on the Certificate of Insurance.

The Certificate Holder should read as follows:

City of Fort Lauderdale
Attn: Public Works Engineering Division
401 SE 21st Street
Fort Lauderdale, FL 33316

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 including 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 for this Agreement, 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 Agreement 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.

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.

11. **PERFORMANCE AND PAYMENT BOND:** 100%

12. **CITY PROJECT MANAGER**

The Project Manager is hereby designated by the City as Juan Carlos Samuel whose address is 101 NE 3rd Avenue, Suite 1410, Fort Lauderdale, FL 33301, telephone number: (954) 828-6323, and e-mail address is jsamuel@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.

13. **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 the sum of **Five Hundred Dollars (\$500.00)** for each and every calendar day that the completion of the Work is delayed beyond the time specified in this Agreement for completion, as fixed and agreed liquidated damages and not as a penalty, so long as the delay is caused by the Contractor. (See sample Agreement, Article 16, Liquidated Damages)

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

The City shall make payment to the Contractor through utilization of the City's P-Card Program. The City has implemented a Purchasing Card (P-Card) Program utilizing both the VISA and MASTERCARD networks. Purchases from this contract will be made utilizing the City's Purchasing Card. Contractor will receive payment from the purchasing card in the same manner as other credit card purchases. Accordingly, Contractor must presently have the ability to accept these credit cards or take whatever steps necessary to implement the ability before the start of the contract term, or contract award by the City. All costs associated with the Contractor's participation in this purchasing program shall be borne by the Contractor. The City reserves the right to revise this program as necessary.

PCI (Payment Card Industry) Compliance

Contractor agrees to comply with all applicable state, federal and international laws, as well as industry best practices, governing the collection, access, use, disclosure, safeguarding and destruction of Protected Information.

Contractor and/or any subcontractor that handles credit card data must be, and remain, PCI compliant under the current standards and will provide documentation confirming compliance upon request by the City of Fort Lauderdale, failure to produce documentation could result in termination of the contract.

15. 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.

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

-END OF SECTION-

CITY OF FORT LAUDERDALE
CONSTRUCTION AGREEMENT

THIS CONSTRUCTION AGREEMENT (“Agreement”) made and entered into this _____ day of _____, 2025, by and between the City of Fort Lauderdale, a Florida municipal corporation (“City”) and _____, a Florida company/corporation (“Contractor”), (“Party” or 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; and

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 – 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, and volunteers, 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 this Agreement, Exhibits to this Agreement, Public Construction Bond, Performance Bond, Payment Bond and Certificates of Insurance, Notice of Award and Notice to Proceed, General Conditions, Special Conditions, Technical Specifications, Plans/Drawings, Addenda, Bid Form and supplement Affidavits and Agreements, all applicable provisions of State and Federal Law and any modification, including Change Orders or written amendments duly delivered after execution of Agreement, Invitation to Bid, Instructions to Bidders and Bid Bond, Contractor’s response to the City’s Invitation to Bid, Schedule of Completion, Schedule of Values, all amendments, modifications and supplements, work directive changes issued on or after the Effective Date of the Agreement, as well as any additional documents that are required to be submitted under the Agreement.
- 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, as may be amended by Change Order.
- 1.11 Contract Time – The number of calendar days stated in the Agreement for the completion of the Work. The dates on which the work shall be started and shall be completed as stated in the Notice to Proceed.
- 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 Agreement.
- 1.16 Final Completion Date – The date the Work is completed, including completion of the final punch list, and delivered along with those items specified in the Contract Documents and is accepted by the City.

- 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-workdays 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 condition’s 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.
- 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-Builts" - 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 – A date when written notice is provided by the City to the Contractor stating that the Work is substantially completed. If, at the time of inspection, it is determined the project is substantially completed, the City will also 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 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. The Project for which the Work under the Contract Documents may be the whole or only part is generally described as follows:

Sebastian and Seville Seawall Replacement
ITB 550 PROJECT P13008

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

PROJECT DESCRIPTION

The City of Fort Lauderdale, Florida (City) is seeking bids from qualified bidders, hereinafter referred to as the Contractor, to provide construction services for the City's Public Works Department, in accordance with the terms, conditions, and specifications contained in this Invitation To Bid (ITB).

This project is located along Sebastian Street and Seville Street west of Birch Road, in the City of Fort Lauderdale. The work to be accomplished under this contract includes, but is not limited to; seawall improvements, stormwater improvements, mill and paving, maintenance of traffic (MOT) and striping improvements.

- 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 Juan Carlos Samuel, whose address is 101 NE 3rd Avenue, Suite 1410, Fort Lauderdale, FL 33301, telephone number: (954) 828-6323, and email address is jsamuel@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, include this Agreement and the following documents listed below which comprise the entire Agreement between the City and Contractor, and these documents listed below are hereby incorporated herein, even if they are not attached to this Agreement. The Contract Documents consist of the following:

- 4.1 This Agreement.
- 4.2 Exhibits to this Agreement: (Plans sheets [] to [] inclusive).
- 4.3 Public Construction Bond, Performance Bond, Payment Bond and Certificates of Insurance.
- 4.4 Notice of Award and Notice to Proceed.
- 4.5 General Conditions and Special Conditions.
- 4.6 Technical Specifications.
- 4.7 Plans/Drawings.

- 4.8 Addenda number _____ through _____, inclusive.
- 4.9 Bid Form and supplement Affidavits and Agreements.
- 4.10 All applicable provisions of State and Federal Law.
- 4.11 Invitation to Bid No. _____, Instructions to Bidders, and Bid Bond.
- 4.12 Contractor's response to the City's Invitation to Bid No. _____, dated _____.
- 4.13 Schedule of Completion.
- 4.14 All amendments, modifications and supplements, change orders and work directive changes, issued on or after the Effective Date of the Agreement.
- 4.15 Any additional documents that are required to be submitted under the Agreement.
- 4.16 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.
- 4.17 Foreign Entity Affidavit.
- 4.18 Kidnapping and Custody Affidavit.

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

- a. Approved change orders, addenda or amendments.
- b. Specifications and Drawings.
- c. Special Conditions.
- d. General Conditions.
- e. This Agreement dated _____, and any attachments.
- f. Invitation to Bid No. _____, and the specifications prepared by the City.
- g. Contractor's response to the City's Invitation to Bid No. _____, dated _____.
- h. Schedule of Values.
- i. 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 The Contractor recognizes that **TIME IS OF THE ESSENCE**. The Work shall commence within thirty (30) calendar days of the date of the Notice to Proceed.
- 5.2 The Work shall be Substantially Completed within two hundred forty (240) calendar days after the date when the Contract Time commences to run as provided in the Notice to Proceed.
- 5.3 The Work shall be finally completed on the Final Completion Date and ready for final payment in accordance with this Agreement within two hundred seventy (270) calendar days after the date when the Contract Time commences to run as provided in the Notice to Proceed.

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 \$ [REDACTED], 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 Contractor shall submit Applications for Payment in accordance with the Contract Documents. Applications for Payment will be processed by City as provided for in the General Conditions.
- 7.2 Progress Payments. City shall make progress payments on account of the Contract Price on the basis of Contractor's monthly Applications for Payment, which shall be submitted by the Contractor between the first (1st) and the tenth (10th) day after the end of each calendar month for which payment is requested. All progress payments will be made on the basis of the progress of the Work completed.
- 7.3 Prior to Final Completion, progress payments will be made in an amount equal to ninety-five percent (95%) of the value of Work completed less in each case the aggregate of payments previously made.
- 7.4 Final Payment. Upon final completion of the Work in accordance with the General Conditions, as may be supplemented, the City shall pay Contractor an amount sufficient to increase total payments to one hundred percent (100%) of the Contract Price. However, not less than five percent (5%) of the Contract Price shall be retained until Record Drawings (as-builts), specifications, addenda, modifications, and shop drawings, including all manufacturers' instructional and parts manuals are delivered to and accepted by the City.
- 7.5 City may withhold, in whole or in part, payment to such extent as may be necessary to protect itself from loss on account of:
 - 7.5.1 Defective work not remedied.
 - 7.5.2 Claims filed or reasonable evidence indicating probable filing of claims by other parties against Contractor or City because of Contractor's performance.
 - 7.5.3 Failure of Contractor to make payments properly to subcontractors or for material or labor.
 - 7.5.4 Damage to another contractor not remedied.
 - 7.5.5 Liquidated damages and costs incurred by Consultant for extended construction administration, if applicable.
 - 7.5.6 Failure of Contractor to provide any and all documents required by the Contract Documents.

When the above grounds are removed or resolved satisfactory to the Project Manager, payment shall be made in whole or in part.

- 7.6 The City shall make payment to the Contractor in accordance with the Florida Prompt Payment Act, Section 218.70, Florida Statutes (2024), as amended or revised, provided, however, complete and error free pay application is submitted.
- 7.7 The City shall make payment to the Contractor through utilization of the City's Purchasing Card (P-Card) Program. The City has implemented a P-Card Program utilizing the MASTERCARD and VISA networks. Purchases from this contract will be made utilizing the City's P-Card. Contractor will receive payment from the purchasing

card in the same manner as other credit card purchases. Accordingly, Contractor must presently have the ability to accept these credit cards or take whatever steps necessary to implement the ability before the start of the contract term, or contract award by the City. All costs associated with the Contractor's participation in this purchasing program shall be borne by the Contractor. The City reserves the right to revise this program as necessary.

7.8 PCI (Payment Card Industry) Compliance

Contractor agrees to comply with all applicable state, federal and international laws, as well as industry best practices, governing the collection, access, use, disclosure, safeguarding and destruction of Protected Information.

Contractor and/or any subcontractor that handles credit card data must be, and remain, PCI compliant under the current standards and will provide documentation confirming compliance upon request by the City of Fort Lauderdale. Failure to produce documentation could result in termination of the contract.

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 Bid Price and that the project can be completed for the Bid 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 Bid Price and that the Project can be completed for the Bid 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 Where required and necessary, the Contractor shall, at all times, have a certified "competent person" assigned to the job site. The Contractor shall assign personnel to the job site that have successfully completed training programs related to trench safety, confined space work, and maintenance of traffic (MOT). Personnel certified by the International Municipal Signal Associations with Florida Department of Transportation qualifications are required relative to MOT. Any other certifications that may be required by applicable permitting agencies for the Work shall also be complied with by the Contractor. 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 materials 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 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 bids. 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 Law and Regulations: The Contractor shall give all notices and comply with all laws, ordinances, rules and regulations applicable to the Work, including Florida Law, the City Code of Ordinances, and any other applicable law. 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 him in accordance with the laws 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 repairing 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 accumulation 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 electronic drawings files. 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 entitles 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 or 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 is 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 of 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, 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 ninety-six (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 its subcontractors 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 Contractor under the Contract Documents promptly and shall make payments to the Contractor in accordance with the terms of the agreement herein.
- 9.2 After the Contractor meets the City’s requirements in the Code of Ordinances, and any other applicable law, 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 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 Agreement into a subsequent fiscal period is subject to appropriation of funds, unless otherwise authorized by law.

ARTICLE 10 – BONDS AND INSURANCE

- 10.1 Public Construction and Other Bonds: The Contractor shall furnish Public Construction or Performance and Payment Bonds (“Bond”), each in an amount at least equal to the Contract Price as security for the faithful performance and payment of all the Contractor's obligations under the Contract Documents. These Bonds shall remain in effect until at least one (1) year after the date of final payment, except as otherwise provided by law. All Bonds shall be furnished and provided by the surety and shall be in substantially the same form as prescribed by the Contract Documents and be executed by such sureties as (i) are licensed to conduct business in the State of Florida, and (ii) are named in the current list of Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies as published in Circular 570 (amended) by the Audit Staff Bureau of Accounts, U.S. Treasury Department and (iii) otherwise meet the requirements set forth herein that apply to sureties. All Bonds signed by an agent must be accompanied by a certified copy of the authority to act.
- 10.1.1 Performance Bond: The Contractor shall execute and record in the public records of Broward County, Florida, a payment and performance 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, (“Bond”), in accordance with Section 255.05, Florida Statutes (2024), 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.

A Corporate Surety Bond legally issued, meeting the approval of, and running to the City in an amount not less than the Contract Price of such improvements, conditioned that the Contractor shall maintain and make all repairs to the improvements constructed by the Contractor at their own expense and free of charge to the City, for the period of one (1) year after the date of acceptance of the Work within such period by reason of any imperfection of the material used or by reason of any defective workmanship, or any improper, imperfect or defective preparation of the base upon which any such improvement shall be laid.

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 clauses (i) and (ii) of Paragraph 10.1, the Contractor shall within five (5) days thereafter substitute another Bond and Surety, both of which shall be acceptable to the City.

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 shall, at its sole expense, 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 for this Agreement. 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:

Professional Liability

Coverage must be afforded for Wrongful Acts in an amount not less than \$1,000,000 each claim and \$2,000,000 aggregate.

Contractor must keep the professional liability insurance in force until the third anniversary of expiration or early termination of this Agreement or the third anniversary

of acceptance of work by the City, whichever is longer, which obligation shall survive expiration or early termination of this Agreement.

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 included 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 \$1,000,000 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.

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.

Inland Marine/Installation Floater

Coverage shall be purchased for all risks of damage or other loss, including transport, storage, loading and unloading, and installation, to materials or movable property while in the care, custody, and control of Contractor. Coverage form must be on a direct primary basis with limits equal to the highest possible replacement cost value of materials or movable property in the care, custody, and control of Contractor.

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. Contractors ineligible for a State exemption certificate agree that they are excluded from any benefits, from the City, afforded under Chapter 440, Florida Statutes.

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 included as an Additional Insured on all liability policies, with the exception of Professional Liability and 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, or other identifying reference must be listed on the Certificate of Insurance.

The Certificate Holder should read as follows:

City of Fort Lauderdale
Attn: Public Works Engineering Division
401 SE 21st Street
Fort Lauderdale, FL 33316

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 including 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 for this Agreement, 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 Agreement 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.

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 its obligations to perform the Work in accordance with the Contract Documents.
- 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 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 acceptance, 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 its sole cost and expense, indemnify and hold harmless the City, its representatives, agents, volunteers, employees and elected and appointed officials from or on account of all claims, damages, losses, liabilities 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, losses, liabilities 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, suppliers, employees or laborers; (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, and hold harmless the City, its representatives, agents, volunteers, employees, and appointed and elected officials 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 (2024), 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. Upon receipt of a fully executed Change Order, the Contractor shall proceed with the

Work involved. All Work shall be executed under the applicable conditions of the Contract Documents. If any Change Order causes an increase or decrease in the Contract Price or an extension or shortening of the Contract Time, an equitable adjustment will be made as provided in Article 14 or Article 15 on the basis of a claim made by either Party.

- 13.2 The Project Manager may authorize minor changes in the Work not involving an adjustment in the Contract Price or the Contract Time, which are consistent with the overall intent of the Contract Documents. Such changes must be in writing and signed by the City and the Contractor.
- 13.3 If notice of any change affecting the general scope of the Work or change in the Contract Price is required by the provisions of any Bond to be given to the Surety, it will be the Contractor's responsibility to so notify the Surety, and the amount of each applicable Bond shall be adjusted accordingly. The Contractor shall furnish proof of such adjustment to the City.

ARTICLE 14 – CHANGE OF CONTRACT PRICE

Change of Contract Price, approved by City, shall be computed as follows:

- 14.1 Cost of the Work: The term "Cost of the Work" means the sum of all direct costs necessarily incurred and paid by Contractor in the proper performance of the Work. Except as otherwise may be agreed to in writing by the City, these costs shall be in amounts no higher than those prevailing in the City and shall include only the following items and shall not include any of the costs itemized in Paragraph 14.3:

- 14.1.1 Payroll costs for employees in the direct employ of the Contractor in the performance of the Work under schedules of job classifications agreed upon by the City and the Contractor. Payroll costs for employees not employed full time on the Work 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 cost of fringe benefits which shall include social security contributions, unemployment, excise and payroll taxes, worker's compensation, health and retirement benefits, bonuses, sick leave, vacation and applicable holiday pay.

- 14.1.2 Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage, and required suppliers and field services. All cash discounts, rebates and refunds and all returns from sale of surplus materials and equipment shall accrue to the City, and the Contractor shall make provisions so that they may be obtained.

- 14.1.3 Supplemental costs including the following:

- 14.1.3.1 Cost, including transportation and maintenance of all materials, supplies, equipment, machinery, appliances, office and temporary facilities at the site and hand tools not owned by the workers, which are consumed in the performance of the Work.

- 14.1.3.2 Rentals of all construction equipment and machinery and the parts whether rented from the Contractor or others in accordance with rental agreements approved by the City, and the costs of transporting, loading, unloading, installation, dismantling and removal. The rental of any such equipment, machinery or parts shall cease when the use is no longer necessary for the Work.
- 14.1.3.3 Sales, consumer, use or similar taxes related to the Work and for which the Contractor is liable, imposed by laws and regulations.
- 14.1.3.4 Royalty payments and fees for permits and licenses.
- 14.1.3.5 The cost of utilities, fuel and sanitary facilities at the Work site.
- 14.1.3.6 Minor expenses such as telegrams, long distance telephone calls, telephone service at the site, expressage and similar petty cash items in connection with the Work.
- 14.1.3.7 Cost of premiums for additional bonds and insurance required because of changes in the Work.
- 14.2 The Contract Price may only be increased by an approved and fully executed Change Order when Work is modified in accordance with Article 13 and approved by the City in writing. Any claim for an increase in the Contract Price resulting from a Change Order shall be based on written notice delivered to the Project Manager within ten (10) days of the occurrence of the Change Order giving rise to the claim. Notice of the amount of the claim with supporting data shall be included in the Change Order and delivered within twenty (20) days of such occurrence unless Project Manager allows an additional period of time to ascertain accurate cost data. Any change in the Contract Price resulting from any such claim shall be incorporated in the Change Order. **IT IS EXPRESSLY AND SPECIFICALLY AGREED THAT ANY AND ALL CLAIMS FOR CHANGES TO THE CONTRACT PRICE SHALL BE WAIVED IF NOT SUBMITTED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THIS SECTION.**
- 14.3 Not Included in the Cost of the Work: The term "Cost of the Work" shall not include any of the following:
- 14.3.1 Payroll costs and other compensation of the Contractor's officers' executives, principals (of partnership and sole proprietorships), general managers, engineers, architects, estimators, attorneys, auditor, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks and other personnel employed by the Contractor whether at the site or in the Contractor's principal or branch office for general administration of the work and not specifically included in the agreed upon schedule of job classifications referred to in Paragraph 14.1.1, all of which are to be considered administrative costs covered by the Contractor's fee.
- 14.3.2 Expenses of the Contractor's principal and branch offices other than the Contractor's office at the site.

- 14.3.3 Any part of the Contractor's capital expenses, including interest on the Contractor's capital employed for the Work and charges against the Contractor for delinquent payments.
- 14.3.4 Cost of premiums for all bonds and for all insurance whether or not the Contractor is required by the Contract Documents to purchase and maintain the same.
- 14.3.5 Costs due to the negligence of the Contractor, any subcontractor, 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 making good any damage to property.
- 14.3.6 Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in Paragraph 14.1.
- 14.4 Basis of Compensation: The Contractor's compensation, allowed to the Contractor for overhead and profit, shall be determined as follows:
- 14.4.1 A mutually acceptable negotiated fee:
- 14.4.1.1 For costs incurred under Paragraphs 14.1.1 and 14.1.2, the Contractor's fee shall not exceed five percent (5%).
- 14.4.1.2 No fee shall be payable on the basis of costs itemized under Paragraphs 14.1.3.1, 14.1.3.2, 14.1.3.3, 14.1.3.4, 14.1.3.5, 14.1.3.6, 14.1.3.7, 14.3.1, 14.3.2, 14.3.3, 14.3.4, 14.3.5 and 14.3.6.
- 14.4.1.3 The amount of credit to be allowed by the Contractor to the City for any such change which results in a net decrease plus a deduction in the Contractor's fee by an amount equal to five percent (5%) for the net decrease.
- 14.4.1.4 When both additions and credits are involved in any one change the combined overhead and profit shall be figured on the basis of net increase if any, however, not to exceed five percent (5%) of the agreed compensation. Profit will not be paid on any Work not performed.
- 14.5 Cost Breakdown Required: Whenever the cost of any Work is to be determined pursuant to this Article, the Contractor will submit in form acceptable to the City an itemized cost breakdown together with supporting documentation. Whenever a change in the Work is to be based upon mutual acceptance of a lump sum, whether the amount is an addition, credit, or no-charge-in-cost, the Contractor shall submit an estimate substantiated by a complete itemized breakdown:
- 14.5.1 The breakdown shall list quantities and unit prices for materials, labor, equipment and other items of cost.
- 14.5.2 Whenever a change involves the Contractor and one (1) or more subcontractors and the change is an increase in the agreed compensation, the overhead and profit percentage for the Contractor and each subcontractor shall be itemized separately.

ARTICLE 15 – CHANGE OF THE CONTRACT TIME

- 15.1 The Contract Time may only be changed by an approved and fully executed Change Order. Any claim for an extension in the Contract Time shall be based on written notice delivered to the Project Manager within five (5) days of the occurrence of the event giving rise to the claim. Any change in the Contract Time resulting from any such claim shall be incorporated in a Change Order.
- 15.2 The Contract Time will be extended in an amount equal to time lost due to delays beyond the control of the Contractor if a claim is made therefore as provided in Paragraph 15.1. Such delays shall include but not be limited to, acts or neglect by the City, or to fires, floods, labor disputes, epidemics, abnormal weather conditions, pandemics, act of Governmental Authority, state of emergency, or acts of God.
- 15.3 All time limits stated in the Contract Documents are of the essence. The provisions of this Article 15 shall not exclude recovery for damages for delay by the Contractor.
- 15.4 Delays caused by or resulting from entities, contractors or subcontractors who are not affiliated with the Contractor (non-affiliated Contractors) shall not give rise to a claim by the Contractor for damages for increases in material and/or labor costs. Such entities, contractors and subcontractors include, but are not limited to, the City's contractors and subcontractors, Florida Power and Light Company, AT&T and Florida East Coast Railway, LLC.
- 15.5 Rights of Various Interests: Whenever work being done by City's forces or by other contractors is contiguous to or within the limits of work covered by this Agreement, the respective rights of the various interests involved shall be established by the Project Manager to secure the completion of the various portions of the Work in general harmony.

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 the sum of **Five Hundred Dollars (\$500.00)** for each and every calendar day that the completion of the Work is delayed beyond the time specified in this Agreement for completion, as fixed and agreed liquidated damages and not as a penalty, so long as the delay is caused by the Contractor. Should an act of God or the acts or omissions of the City, its agents or representatives, in derogation to the terms of this Agreement cause the delay, the Contractor shall not be responsible for the delay nor liquidated damages. Liquidated damages are fixed and agreed upon between the Parties, recognizing the impossibility of precisely ascertaining the amount of damages that will be sustained by the City as a consequence of such delay and both Parties desiring to obviate any question of dispute concerning the amount of damages and the cost and effect of the failure of the Contractor to complete the Work on time. Liquidated damages shall apply separately to each portion of the Work for which a time of completion is given. The City shall have the right to deduct from or retain any compensation which may be due or which may become due and payable to the Contractor the amount of liquidated damages, and if the amount retained by the City is insufficient to pay in full such liquidated damages, the Contractor shall pay all liquidated damages in full. The Contractor shall be responsible

for reimbursing the City, in addition to liquidated damages or other damages for delay, for all costs of engineering, architectural fees, and inspection and other costs incurred in administering the construction of the Project beyond the completion date specified or beyond an approved extension of time granted to the Contractor whichever is later. Delays caused by or resulting from entities, contractors or subcontractors who are not affiliated with the Contractor shall not give rise to a claim by Contractor for damages for increase in material and/or labor costs. Such entities, contractors and subcontractors include, but are not limited to, the City's contractors and subcontractors, Florida Power and Light Company, AT&T, and Florida East Coast Railway, LLC.

- 16.2 No Extended Damages: For other and additional good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, the Contractor covenants and agrees that in the event of any delay of construction or for any reason, allegation or claim, and notwithstanding the reason of 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.

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 Agreement, 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 date set forth in the Notice to Proceed, 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 notice 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 below in Section 17.5.
 - 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 accepted by the City and costs reasonably incurred by Contractor relating to commitments which had become firm prior to the termination. No payment shall be made for profit for work/services which have not been performed or accepted.

- 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 City Project Manager and Contractor shall be submitted to the City Manager or his designee and Contractor's representative for resolution. Prior to any litigation being commenced, for any disputes which remain unresolved, within sixty (60) days after final completion of the Work, the Parties shall participate in mediation to address all unresolved disputes to a mediator agreed upon by the Parties. Should any objection not be resolved in mediation, the Parties retain all their legal rights and remedies provided under the laws of Florida. Failure by a Party to comply in strict accordance with the requirements of this Article, then said Party specifically waives all of its rights provided hereunder, including its rights and remedies under the laws of Florida.
- 18.1.1 All non-technical administrative disputes (such as billing and payment) shall be determined by Contract Administrator.
- 18.1.2 During the pendency of any dispute and after a determination thereof, Contractor and 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 herein, 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.
- 18.1.3 For any disputes which remain unsolved, within sixty (60) calendar days after Final Completion of the Work, the Parties shall participate in mediation to address all unresolved disputes. A mediator shall be mutually agreed upon by the Parties. Should any objection not be resolved in mediation, the Parties retain all their legal rights and remedies under applicable law. If a Party objecting to a determination, fails to comply in strict accordance with the requirements of this Article, said Party specifically waives all of its rights provided hereunder, including its rights and remedies under applicable law.

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:

Juan Carlos Samuel
Project Manager
City of Fort Lauderdale
101 NW 3rd Avenue, Suite 1410
Fort Lauderdale, Florida 33301-1016
Telephone: (954) 828-6323
E-mail: jsamuel@fortlauderdale.gov

with copies to:

City Manager
City of Fort Lauderdale
401 SE 21st Street
Fort Lauderdale, FL 33316

and

City Attorney
City of Fort Lauderdale
1 East Broward Blvd, Suite 1605
Fort Lauderdale, FL 33301-1016

To the Contractor:

Telephone: _____
E-mail: _____

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.
- 20.2 Sovereign Immunity: Nothing contained in this paragraph or elsewhere in this Agreement is in any way intended either to be a waiver of the Sovereign Immunity limitation placed upon the City’s liability as set forth in Section 768.28, Florida Statutes (2024), as may be amended or revised, or to extend the City’s liability beyond the limits established in said Section 768.28, Florida Statutes (2024), 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.
- 20.3 No Extended Damages: For other and additional good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, the Contractor covenants and

agrees that in the event of any delay of construction or for any reason, allegation or claim, and notwithstanding the reason of 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.

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 in Broward County. **BY ENTERING INTO THIS AGREEMENT, THE PARTIES HEREBY EXPRESSLY WAIVE ANY AND ALL RIGHTS EITHER PARTY MIGHT HAVE TO A TRIAL BY JURY REGARDING THIS AGREEMENT OR 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.**

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.
- 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 the courts 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 Iran Terrorism Sectors List, created pursuant to Section 215.473, Florida Statutes (2024), as may be amended or revised, and that it does not have business operations in Cuba or Syria, as provided in Section 287.135, Florida Statutes (2024), as may be amended or revised. The Contractor certifies that it is not on the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2024), 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 (2024), as may be amended or revised, or been placed on the Scrutinized Companies with Activities in Sudan List, or been placed on a list created pursuant to Section 215.473, Florida Statutes (2024), as may be amended or revised, relating to scrutinized active business operations in Iran, or been placed on the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2024), 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 (2024), as may be amended or revised.

By submitting a bid or response, the company, principals, or owners certify that it is not listed on the Scrutinized Companies with Activities in Sudan List or listed on the

Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or is engaged in business operations in Cuba or Syria.

- 22.8 Public Entity Crimes: In accordance with the Public Crimes Act, Section 287.133, Florida Statutes (2024), 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 (2024), 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: In the event it becomes necessary for either party herein to seek legal means to enforce the terms of the Agreement, the prevailing Party shall be entitled to its reasonable attorney fees.
- 22.10 Not Applicable.
- 22.11 Public Records

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES (2024), TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT PRRCONTRACT@FORTLAUDERDALE.GOV, 954-828-5002, CITY CLERK'S OFFICE, 1 EAST BROWARD BOULEVARD, SUITE 444 FORT LAUDERDALE, FLORIDA 33301.

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 (2024), 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.
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.

22.12 Non-Discrimination

The Contractor shall not discriminate against its employees based on the employee's race, color, religion, gender, gender identity, gender expression, marital status, sexual orientation, national origin, age, disability, 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, 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.

22.13 E-Verify

448.095, Florida Statutes (2024), 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 (2024), 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(5), Florida Statutes (2024), as may be

amended or revised, but that the Contractor otherwise complied with Subsection 448.095(5), Florida Statutes (2024), 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(5)(c)1. or 2., Florida Statutes (2024), 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(5)(c), Florida Statutes (2024), 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, including this subparagraph, requiring any and all subcontractors, as defined in Subsection 448.095(1)(e), Florida Statutes (2024), as may be amended or revised, to include all of the requirements of this Section in their subcontracts. Contractor shall be responsible for compliance by any and all subcontractors, as defined in Subsection 448.095(1)(e), Florida Statutes (2024), as may be amended or revised, with the requirements of Section 448.095, Florida Statutes (2024), as may be amended or revised.

22.14 Anti-Human Trafficking:

As a condition precedent to the effectiveness of this Agreement, the Contractor shall provide the City with an affidavit signed by an officer or a representative of the Contractor under penalty of perjury attesting that the Contractor does not use coercion for labor or services as defined in Section 787.06, Florida Statutes (2024), as may be amended or revised.

22.15 Foreign Countries Of Concern:

As a condition precedent to the effectiveness of this Agreement, the Contractor shall provide the City with an affidavit signed by an officer or representative of the Contractor under penalty of perjury attesting that the Contractor does not meet any of the criteria in paragraphs (2)(a)-(c) of Section 287.138, Florida Statutes (2024), as may be amended or revised.

22.16 Default:

In the event the Contractor fails to comply with the provisions of this Agreement, the City may declare the Contractor in default and notify it in writing, giving a reasonable time to cure the default, but in no event shall this time period exceed five (5) calendar days unless otherwise agreed to by the parties. In such event, the Contractor shall only be compensated for any services completed as of the date written notice of default is served.

22.17 Severability:

If any portions of this Agreement shall be held invalid or unenforceable, such invalidity or unenforceability shall not affect any other provisions hereof, and this Agreement shall be construed and enforced as if such provisions had not been included.

[THIS SPACE WAS INTENTIONALLY LEFT BLANK]

SAMPLE CONSTRUCTION AGREEMENT

CITY

IN WITNESS OF THE FOREGOING, the Parties have set their hands and seals the day and year first written above.

CITY OF FORT LAUDERDALE, a Florida municipal corporation

By: _____
RICKELLE WILLIAMS
City Manager

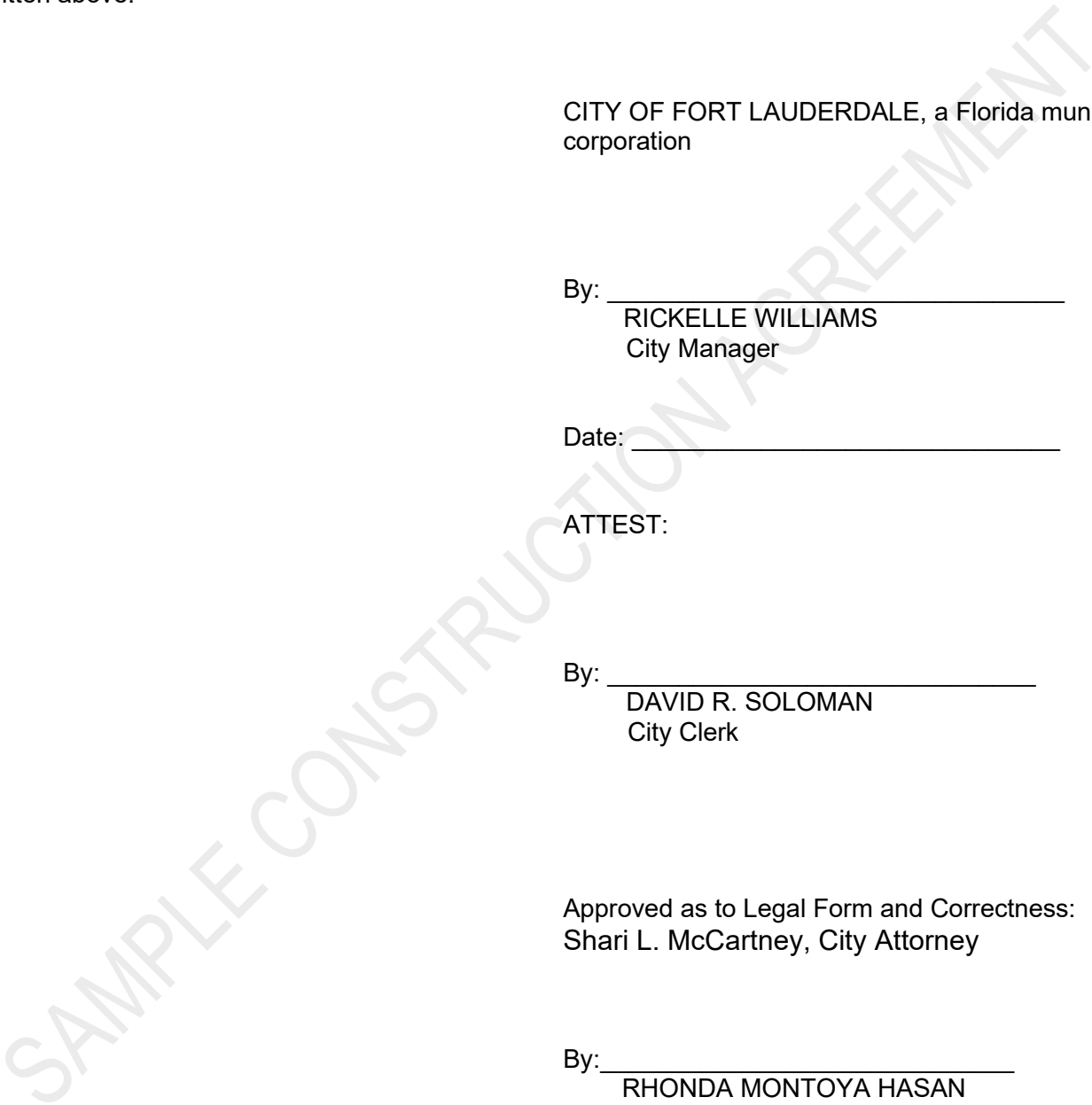
Date: _____

ATTEST:

By: _____
DAVID R. SOLOMAN
City Clerk

Approved as to Legal Form and Correctness:
Shari L. McCartney, City Attorney

By: _____
RHONDA MONTOYA HASAN
Assistant City Attorney



CONTRACTOR

WITNESSES:

CONTRACTOR.,
a Florida company/corporation.

By: _____

Print Name

Print Name: _____

Title: _____

ATTEST:

Print Name

By: _____

Secretary

(CORPORATE SEAL)

STATE OF _____:

COUNTY OF _____:

The foregoing instrument was acknowledged before me by means of physical presence or online notarization, this ____ day of _____, 2025, by _____, (NAME OF AUTHORIZED OFFICER) as _____ (TITLE OF AUTHORIZED OFFICER), for _____ (NAME OF COMPANY), a Florida _____ (TYPE OF COMPANY).

(Signature of Notary Public - State of Florida)

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

Personally Known _____ OR Produced Identification _____
Type of Identification Produced: _____

AFFIDAVIT OF COMPLIANCE WITH FOREIGN ENTITY LAWS
(Florida Statute- §287.138, 692.201, 692.202, 692.203, and 692.204)

The undersigned, on behalf of the entity listed below ("Entity"), hereby attests under penalty of perjury as follows:

1. Entity is not owned by the government of a foreign country of concern as defined in Section 287.138, Florida Statutes. (Source:§ 287.138(2)(a), Florida Statutes)
2. The government of a foreign country of concern does not have a controlling interest in Entity. (Source:§ 287.138(2)(b), Florida Statutes)
3. Entity is not organized under the laws of, and does not have a principal place of business in, a foreign country of concern. (Source: § 287.138(2)(c), Florida Statutes)
4. Entity is not owned or controlled by the government of a foreign country of concern, as defined in Section 692.201, Florida Statutes. (Source:§ 288.007(2), Florida Statutes)
5. Entity is not a partnership, association, corporation, organization, or other combination of persons organized under the laws of or having its principal place of business in a foreign country of concern, as defined in Section 692.201, Florida Statutes, or a subsidiary of such entity. (Source: § 288.007(2), Florida Statutes)
6. Entity is not a foreign principal, as defined in Section 692.201, Florida Statutes. (Source: § 692.202(5)(a)(l), Florida Statutes)
7. Entity is in compliance with all applicable requirements of Sections 692.202, 692.203, and 692.204, Florida Statutes.
8. **(Only applicable if purchasing real property)** Entity is not a foreign principal prohibited from purchasing the subject real property. Entity is either (a) not a person or entity described in Section 692.204(1)(a), Florida Statutes, or (b) authorized under Section 692.204(2), Florida Statutes, to purchase the subject property. Entity is in compliance with the requirements of Section 692.204, Florida Statutes. (Source:§§ 692.203(6)(a), 692.204(6)(a), Florida Statutes)

The undersigned is authorized to execute this affidavit on behalf of Entity.

Name: _____ Title: _____ Entity: _____

Signature: _____ Date: _____

NOTARY PUBLIC ACKNOWLEDGEMENT SECTION

STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me, by means of physical presence or online notarization, this ____ day of _____, 20 __, by _____, as _____ for _____, who is personally known to me or who has produced _____ as identification.

Notary Public Signature: _____ (Notary Seal)

Print Name: _____ My commission expires: _____

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.

<input type="text"/>
<input type="text"/>
<input type="text"/>

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.

Subcontractor Name	Description of Work
--------------------	---------------------

- 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:

CITY OF FORT LAUDERDALE BID/PROPOSAL CERTIFICATION

Please Note: It is the sole responsibility of the bidder/proposer to ensure that their response is submitted electronically through the [City's on-line strategic sourcing platform](#) 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) _____ EIN (Optional): _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone No.: _____ FAX No.: _____ Email: _____

Delivery: Calendar days after receipt of Purchase Order (**section 1.02 of General Conditions**): _____

Total Bid Discount (**section 1.05 of General Conditions**): _____

Check box if your firm qualifies for DBE (**section 1.09 of General Conditions**):

ADDENDUM ACKNOWLEDGEMENT - Proposer 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>	<u>Addendum No.</u>	<u>Date Issued</u>
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

VARIANCES: If you take exception or have variances to any term, condition, specification, scope of service, or requirement in this competitive solicitation you must specify such exception or variance in the space provided below or reference in the space provided below all variances contained on other pages within your response. Additional pages may be attached if necessary. No exceptions or variances will be deemed to be part of the response 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.

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a response, that in no event shall the City's liability for respondent'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



CONTRACT PAYMENT METHOD

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to credit card payments via MasterCard or Visa as part of this program.

This allows you as a vendor of the City of Fort Lauderdale to receive your payments fast and safely. No more waiting for checks to be printed and mailed.

In accordance with the contract, payments on this contract will be made utilizing the City's P-Card (MasterCard or Visa). Accordingly, bidders must presently have the ability to accept the credit card or take whatever steps necessary to implement acceptance of a card before the start of the contract term, or contract award by the City.

All costs associated with the Contractor's participation in this purchasing program shall be borne by the Contractor. The City reserves the right to revise this program as necessary.

By signing below, you agree with these terms.

Please indicate which credit card payment you prefer:

____ MasterCard

____ Visa

Company Name

Name (Printed)

Signature

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: _____



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.

<u>NAME</u>	<u>RELATIONSHIPS</u>
_____	_____
_____	_____

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



CITY OF FORT LAUDERDALE

**SWORN STATEMENT PURSUANT TO SECTION 287.087, FLORIDA
STATUTES, ON PREFERENCE TO BUSINESS WITH
DRUG-FREE WORK PLACE PROGRAMS**

I certify that I have established a Drug Free Work Place program and have complied with the following

- a. Published and distributed to each employee a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibitions.
- b. Required all new employees to undergo laboratory testing as a condition of employment and will require all employees, as a condition of their continued employment, to undergo laboratory testing to detect illegal drug or alcohol use according to Florida Statutes 440.101 and 440.102.
- c. Ensured that applicants with a confirmed positive drug or alcohol screening test result are not considered for employment.
- d. Have tested employees when reasonably suspected of illegal drug or alcohol use.
- e. Ensured that any employee refusing to take a drug or alcohol screening test in violation of the Drug Free Work Place Policy is subject to dismissal for failure to abide by the provisions of the Policy.
- f. Informed employees about the dangers of drug abuse in the workplace, the business' policy of maintain a drug-free workplace, any available drug counseling, rehabilitation and employee assistance programs and the penalties that may be imposed upon employees for drug abuse violations.
- g. In the statement specified in subparagraph a, notified the employees that, as a condition of their employment, the employee will abide by the terms of the statement and will notify their employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States of any state, for a violation occurring in the workplace no later than 5 days after such conviction.

- h. Have required all employees to sign a copy of this statement of compliance acknowledging their understanding and agreeing to abide with the requirements of the Drug Work Place Policy.
- i. Will impose a sanction on or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community by, any employee who is so convicted.
- j. Am making a good faith effort to continue to maintain a Drug Free Work Place through implementation of this document.

BY: _____ DATE: _____

NAME (Printed) _____ TITLE: _____

COMPANY NAME: _____

Affix Company Seal

REFERENCES FORM

A minimum of three (3) references shall be provided

NOTE: - items with asterisk (*) are mandatory

Bidder Company Name*			
Key Contact Name*		Title	
Email*		Phone*	

References

Note: References will be contacted via emails with Key Contact Copied

1. Ref. Company Name			
Address			
Contact Name		Title	
Email*		Phone	
Contract/Project Value (\$)		Year	
Project Title*			
Project Description			

2. Ref. Company Name			
Address			
Contact Name		Title	
Email*		Phone	
Contract/Project Value (\$)		Year	
Project Title*			
Project Description			

3. Ref. Company Name			
Address			
Contact Name		Title	
Email*		Phone	

City of Fort Lauderdale
REFERENCES FORM

A minimum of three (3) references shall be provided

Contract/Project Value (\$)		Year	
Project Title			
Project Description			

4. Ref. Company Name			
Address			
Contact Name		Title	
Email*		Phone	
Contract/Project Value (\$)		Year	
Project Title*			
Project Description			

5. Ref. Company Name			
Address			
Contact Name		Title	
Email*		Phone	
Contract/Project Value (\$)		Year	
Project Title*			
Project Description			



ANTI-HUMAN TRAFFICKING AFFIDAVIT

Rev Date: 01/13/2025

The undersigned, on behalf of _____,
(Print complete name incorporated with suffix: INC, LLC, LTD, LP, PA, etc.)

a _____ (State corporation is registered) _____ (Type of entity: profit or non-profit),
("Nongovernmental Entity"), under penalty of perjury, hereby deposes and says:

1. My name is _____.
(Print complete name of corporate officer/authorized representative)
2. I am an officer or authorized representative (Select one) of the Nongovernmental Entity. My title is: _____.
(Print title of corporate officer/authorized representative)
3. I attest that the Nongovernmental Entity does not use coercion for labor or services as defined in Section 787.06, Florida Statutes (2024), as may be amended or revised.

Under penalties of perjury, I declare that I have read the foregoing Anti-Human Trafficking Affidavit and that the facts stated in it are true.

Signature of Officer or Representative: _____

Office Address: _____

Email Address: _____

Main Phone Number: _____ FEIN No.: _____

STATE OF _____
COUNTY OF _____

Sworn to and subscribed before me by means of physical presence or online notarization, this ____ day of _____, 2025, by _____.
(Print name of corporate officer/representative)

(Signature of Notary Public – State of _____)

(NOTARY SEAL)

Print, Type or Stamp Commissioned Name of Notary Public)

Personally Known OR Produced Identification

Type of Identification Produced _____



DRAWING INDEX

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004	EROSION CONTROL PLAN
005	EROSION CONTROL NOTES AND DETAILS
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008	DEMOLITION NOTES AND DETAILS
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014	SIGNING AND MARKING PLAN
015	SIGNING AND MARKING PLAN
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017	SIGNING AND MARKING DETAILS



CITY OF FORT LAUDERDALE

PROJECT #13008

SEBASTIAN AND SEVILLE

SEAWALL REPLACEMENT

N. BIRCH RD. & SEBASTIAN ST., N. BIRCH RD. & SEVILLE ST.

FORT LAUDERDALE, FLORIDA

**PERMIT SET
MUST BE ON JOBSITE AT ALL
TIMES DURING CONSTRUCTION**

**NOTICE
INSPECTION REQUIRED**
24 HRS. PRIOR TO COMMENCING ANY
WORK IN THE PUBLIC R/W CONTACT
THE BROWARD COUNTY HIGHWAY
CONSTRUCTION AND ENGINEERING
DIVISION AT 954-577-4600 FOR
INSPECTION.

**NOTE:
APPROVAL OF THIS PLAN DOES
NOT CONSTITUTE A PERMIT FOR
CONSTRUCTION.**

**A PERMIT FOR CONSTRUCTION MUST
BE OBTAINED FROM THE BROWARD
COUNTY HIGHWAY CONSTRUCTION
AND ENGINEERING DIVISION PRIOR TO
COMMENCING CONSTRUCTION IN THE
PUBLIC RIGHT OF WAY.**

**ALL MATERIALS USED AND
INSTALLATIONS WITHIN THE PUBLIC
RIGHT OF WAY OR EASEMENTS SHALL BE
IN ACCORDANCE WITH BROWARD COUNTY
HIGHWAY CONSTRUCTION AND
ENGINEERING DIVISION SPECIFICATIONS.**

**BROWARD COUNTY HIGHWAY CONSTRUCTION
AND ENGINEERING DIVISION**

**PLAN CONSISTENT
WITH PLAT REQUIREMENTS**

**PUBLIC RIGHT OF WAY APPROVAL
FOR PAVING, GRADING AND DRAINAGE**

BY: _____ DATE: _____

DOES NOT INCLUDE APPROVAL
OF PAVEMENT MARKING & SIGNS

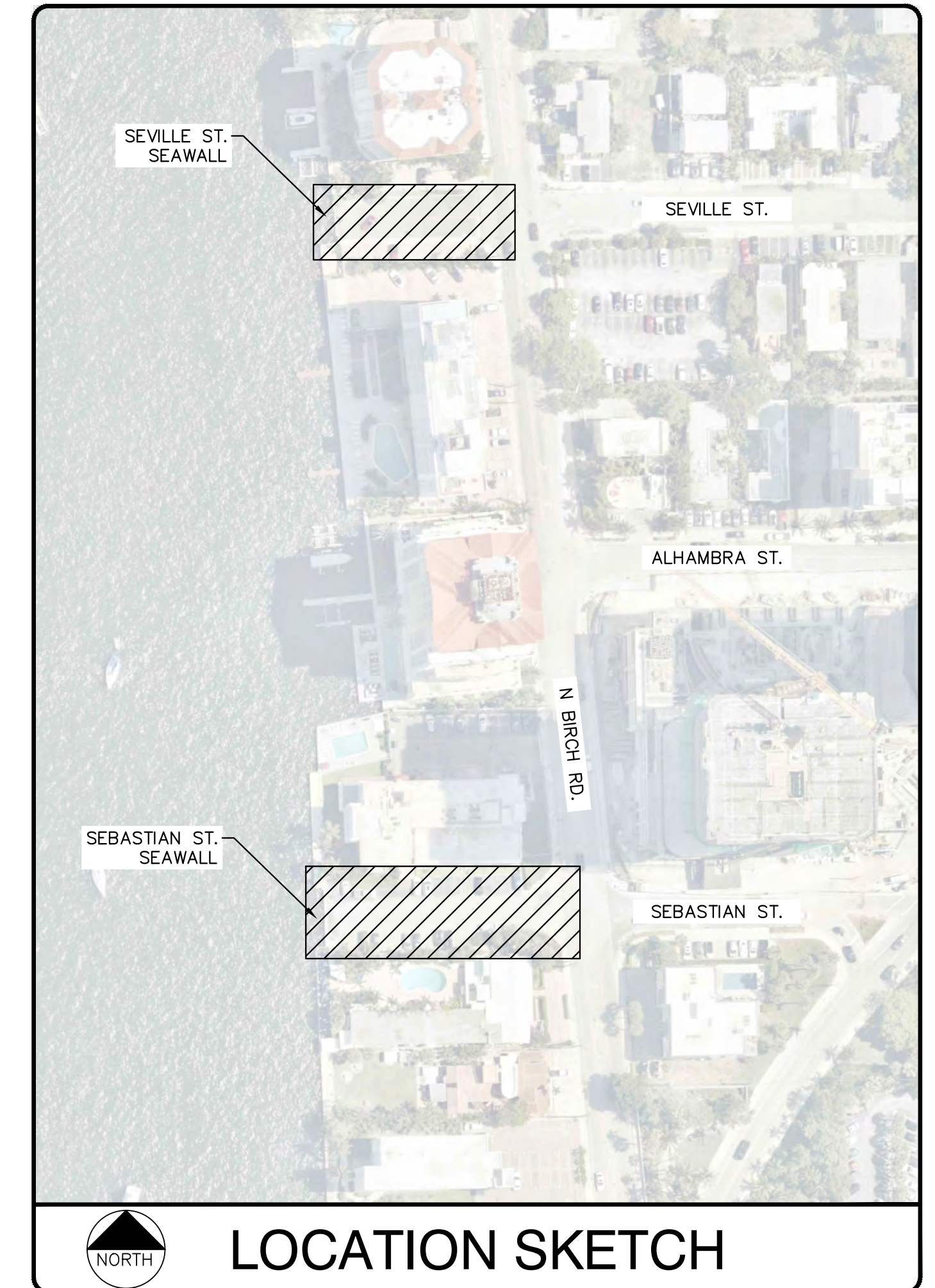
PREPARED BY:
Kimley»Horn

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

BCTED REF NO.: 250324060

THE FOLLOWING ITEMS ARE NOT REVIEWED OR ACCEPTED BY BROWARD COUNTY:

- BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S REVIEW DOES NOT INCLUDE A REVIEW AND ACCEPTANCE OF THE PROJECT'S DESIGN OR OPERATION. THESE ITEMS ARE TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER.
- BROWARD COUNTY TRAFFIC ENGINEERING DIVISION DOES NOT REVIEW AND APPROVE, OR INSPECT AND ACCEPT THE FOLLOWING ITEMS FOR MAINTENANCE: PAVEMENT MARKINGS ON OR ADJACENT TO PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLUNKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.
- THE CITY ENGINEER IS RESPONSIBLE FOR THE REVIEW AND APPROVAL OF THE DESIGN AND OPERATION OF THE PROJECT, AND FOR THE INSPECTION AND ACCEPTANCE OF THE FOLLOWING ITEMS THAT WILL BE MAINTAINED BY THE CITY: PAVEMENT MARKINGS ON OR ADJACENT TO PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER BRICKS, PAVEMENT MARKINGS ON OR ADJACENT TO PAINTED ASPHALT, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLUNKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK AND ASPHALT WORK.
- ALL TRAFFIC CONTROL DEVICES MAINTAINED BY BROWARD COUNTY, THAT ARE REMOVED OR DAMAGED BY CONSTRUCTION, SHALL BE REPLACED BY THE CONTRACTOR USING CURRENT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS.



**PROJECT #13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT**
N. BIRCH RD. & SEBASTIAN ST., N. BIRCH RD. & SEVILLE ST.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

FORT LAUDERDALE CITY COMMISSION

DEAN J. TRANTALIS	MAYOR
JOHN HERBST	COMMISSIONER - DISTRICT I
STEVEN GLASSMAN	COMMISSIONER - DISTRICT II
PAMELA BEASLEY-PITTMAN	COMMISSIONER - DISTRICT III
BEN SORENSEN	COMMISSIONER - DISTRICT IV

PROJECT MANAGER	JOB TITLE	PHONE NO.
JUAN CARLOS SAMUEL E.I., ENV SP	PROJECT MANAGER II	(954) 828-6323
RARES PETRICA, P.E.	SENIOR PROJECT MANAGER	(954) 828-6720
JAIME GHITELMAN, P.E.	ENGINEER OF RECORD	(561) 840-0873
CARLOS FLORIAN, P.E., SENIOR PM	ENGINEER OF RECORD	(954) 980-0665

DATE: 9/30/2025
CAD FILE: 000 COVR
DRAWING FILE No.: 12549

BID SET NOT FOR CONSTRUCTION

K:\FTL\CIVIL\043 JOBS\043184256 RFQ 12637-421 TO 6 SEAWALL REPLACEMENT\CAD\PLANSHEETS\CIVIL\000 COVR.DWG

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BCTED REF NO.: 250324060

000001- GENERAL NOTES (Sheet) Jan 11, 2017

GENERAL NOTES:

- CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTIES AT ALL TIMES.
- REFER TO SPECIFICATION SECTION 01001 AND 01520 FOR DETAILED REQUIREMENTS FOR SEQUENCE OF CONSTRUCTION AND CONSTRUCTION CONSTRAINTS.
- SITE INFORMATION HAS BEEN PROVIDED BY SITE SURVEY PREPARED BY XXXX SURVEYING, LLC DATED FEBRUARY 2015.
- HORIZONTAL CONTROL IS REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83). VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- RECORD DRAWINGS USED FOR EXISTING FEATURES: XXXX. RECORD DRAWINGS MAY BE OBTAINED FROM THE OWNER UPON REQUEST.
- CONTRACTOR SHALL VERIFY FIELD CONDITIONS BEFORE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND DIMENSIONS WHERE NEW WORK WILL MATCH EXISTING. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO THE COMMENCEMENT OF WORK.
- CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FROM THE APPROPRIATE AUTHORITIES, DEPARTMENTS, AND/OR AGENCIES HAVING JURISDICTION PRIOR TO COMMENCING WORK.
- ALL PRACTICAL AND NECESSARY EFFORTS SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT UNNECESSARY TREE REMOVAL AND/OR DAMAGE.
- THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THE INFORMATION IS NOT GUARANTEED. THEREFORE THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
- UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR EXACT LOCATION AND TO AVOID DAMAGE TO THEM. THE CONTRACTOR SHALL CONTACT SUNSHINE 811 AT PHONE NUMBER 811 OR 1-800-432-4770 TO REQUEST UNDERGROUND UTILITY LOCATION MARK-OUT AT LEAST TWO (2) WORKING DAYS BUT NO MORE THAN TEN (10) WORKING DAYS PRIOR TO BEGINNING EXCAVATION, INCLUDING SOIL DRILLING. THE CONTRACTOR SHALL ALSO CONTACT AND REQUEST UTILITY LOCATION MARK-OUT FROM BURIED UTILITY OWNERS WITH UTILITIES ON THE PROJECT SITE THAT ARE NOT PARTICIPANTS OF SUNSHINE 811.
- THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN OR AROUND EXISTING CITY-OWNED UTILITIES. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST TWO BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION WITHIN TEN FEET OF A CITY-OWNED UTILITY SO THAT A CITY REPRESENTATIVE MAY BE PRESENT.
- CONTRACTOR SHALL TAKE CARE TO AVOID DAMAGE TO EXISTING PAVEMENT, STRUCTURES, AND UTILITIES THAT ARE NOT INDICATED TO BE DEMOLISHED OR REMOVED. ANY DAMAGE TO EXISTING PAVEMENT, STRUCTURES, AND UTILITIES NOT INDICATED TO BE DEMOLISHED OR REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- WHERE PROPOSED WORK IS IN THE VICINITY OF UTILITY POLES, SUCH THAT SUPPORT OF THE POLE(S) WILL BE REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY OF THE WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE UTILITY FOR SUPPORT OF THE POLE.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

GENERAL NOTES
SHEET 1

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20170719

000001- GENERAL NOTES (Sheet) Jan 11, 2017

- DURING EXCAVATION AND PLACEMENT OF UTILITIES THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS AND SHALL SUBMIT TO THE ENGINEER FOR APPROVAL SHEET PILING, SHORING AND/OR BRACING DESIGNS AS MAY BE NECESSARY TO COMPLY WITH THESE REGULATIONS.
- GROUNDWATER FROM ALL DEWATERING OPERATIONS SHALL BE DISCHARGED TO AN ENVIRONMENTALLY ACCEPTABLE LOCATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS GENERATED DURING THE PROJECT OFF SITE AT A PROPERLY PERMITTED DISPOSAL FACILITY.
- FOR REFERENCE MONUMENTS, SEE DRAWING (EX. CONDITIONS DWG # THAT SHOWS MONUMENTS).
- THE CONTRACTOR IS REQUIRED TO OBTAIN WRITTEN APPROVAL FROM THE ENGINEER FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.
- THE UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS, EXISTING RIGHT-OF-WAY OR APPROVED EASEMENT. THE CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY TREES OR SHRUBS WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- ALL RESTORATION SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION OVER THE RIGHT-OF-WAY WHERE THE PROJECT IS CONSTRUCTED.
- ALL LOOP DETECTORS, COMMUNICATION CABLES AND CONDUITS, IF DAMAGED BY THE CONTRACTOR'S ACTIVITIES, SHALL BE REPAIRED AND/OR REPLACED IN ACCORDANCE WITH BCTED AND FDOT REQUIREMENTS.
- PIPING, FITTINGS, AND APPURTENANCES FOR DUCTILE IRON PIPE SHALL BE RESTRAINED JOINT WHERE SHOWN ON THE PLANS.
- RESILIENT SEATED GATE VALVES WITH BEVEL TYPE GEAR SHALL BE INSTALLED IN HORIZONTAL ORIENTATION WHEN LESS THAN 7- FEET OF COVER FROM TOP OF PIPE IS PRESENT.
- NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING PERMISSION AND A CONSTRUCTION METER FROM THE CITY OF FORT LAUDERDALE.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING, MOVING AND RELOCATING OR REPLACING ALL WATER SERVICES OR SEWER LATERALS WHICH ARE ENCOUNTERED DURING EXCAVATION. THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR WATER SERVICE AND WASTEWATER SERVICE DISRUPTION FOR APPROVAL 7 (SEVEN) CALENDAR DAYS PRIOR TO THE ANTICIPATED DISRUPTION. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS 48 HOURS IN ADVANCE OF ANY WORK ON THEIR SERVICES. THIS WORK SHALL BE CONSIDERED INCIDENTAL.
- THE CONTRACTOR MUST INFORM THE CITY AT LEAST 48-HOURS IN ADVANCE OF CONSTRUCTION, IN WRITING IF ANY CONFLICT IS DISCOVERED DURING POT HOLE OPERATIONS FOR CLARIFICATION BY THE CITY.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UTILITIES DEPARTMENT OF THE CITY OF FORT LAUDERDALE AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE TO COORDINATE ANY ACTIVITY TO BE PERFORMED BY THE CITY'S UTILITIES DEPARTMENT.
- CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE EXISTING RIGHTS-OF-WAY.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

GENERAL NOTES
SHEET 2

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000001- GENERAL NOTES (Sheet) Jan 11, 2017

- ALL WORK WITHIN STATE DEPARTMENT OF TRANSPORTATION (FDOT) RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH FDOT SPECIFICATIONS AND PERMIT REQUIREMENTS.
- ALL WORK WITHIN BROWARD COUNTY RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH THE BROWARD COUNTY MINIMUM STANDARDS AND/OR REQUIREMENTS.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL CITY, COUNTY AND STATE REGULATIONS PERTAINING TO THE CLOSING OF PUBLIC STREETS FOR USE OF TRAFFIC DURING CONSTRUCTION.
- CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC (MOT) PLANS TO FDOT, CITY OF FORT LAUDERDALE, BROWARD COUNTY AS REQUIRED FOR WORK TO BE DONE WITHIN THEIR RW PRIOR TO COMMENCEMENT OF WORK. SPECIFIC AGENCY MOT REQUIREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL SUBMIT MOT PLANS FOR APPROVAL BY THE CITY WHEN WORKING WITHIN THE PUBLIC RIGHT-OF-WAY.
- STATIONS SHOWN ON THE DRAWINGS ARE BASED ON THE ESTABLISHED BASELINE AND SHALL NOT BE CONSIDERED AS DISTANCES OR AS A MEASURE OF THE LINEAR FOOTAGE OF PIPE TO BE INSTALLED.
- THE GENERAL INTENT IS TO PROVIDE SEWER SERVICE LATERALS FOR EACH PROPERTY. ALL LATERAL LOCATIONS SHALL BE FIELD ADJUSTED.
- ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAY OR WALKWAY SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
- TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS SHALL NOT BE LEFT OPEN DURING NIGHT TIME HOURS WITHOUT ADEQUATE PROTECTION.
- CONTRACTOR SHALL PROMPTLY REPAIR AND RESTORE EXISTING PAVEMENT, SIDEWALKS, CURBS, DRIVEWAYS, PIPES, RESIDENTIAL AND COMMERCIAL SPRINKLER LINES, CONDUIT, CABLES, ETC. AND LANDSCAPE AREAS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AS REQUIRED BY AGENCIES HAVING JURISDICTION OVER THE PROJECT AND/OR WHEN REQUIRED FOR PUBLIC SAFETY.
- THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF WORK, FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
- LOCATION OF AIR RELEASE VALVES MAY BE FIELD ADJUSTED BY THE ENGINEER OR CITY OF FORT LAUDERDALE AS NECESSARY.
- CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITY CASTINGS INCLUDING VALVE BOXES, MANHOLES, HAND HOLES, PULL BOXES, INLETS AND SIMILAR STRUCTURES IN CONSTRUCTION AREA TO BE OVERLAPPED WITH ASPHALT.
- EXISTING TRAFFIC SIGNS SHALL BE RESET UPON COMPLETION PER BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS. COST SHALL BE CONSIDERED INCIDENTAL. CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED TRAFFIC SIGNAL LOOPS PER BROWARD COUNTY TRAFFIC ENGINEERING SPECIFICATIONS; COST SHALL BE INCIDENTAL.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

GENERAL NOTES
SHEET 3

GNRL
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20170719

Sunshine811

Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.

Check positive response codes before you dig!

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

ENGINEER: CARLOS FLORIAN, P.E.
REG. No: 80500
DATE: 9/30/2025

DATE: 9/30/2025

DRAWN BY: DM
DESIGNED BY: CC
CHECKED BY: CF

SCALE:
FIELD BOOK:

TEL: 954-716-9868
FAX:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		DESCRIPTION
NO.	DATE	BY (GNRL)

PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
GENERAL NOTES
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO. 002

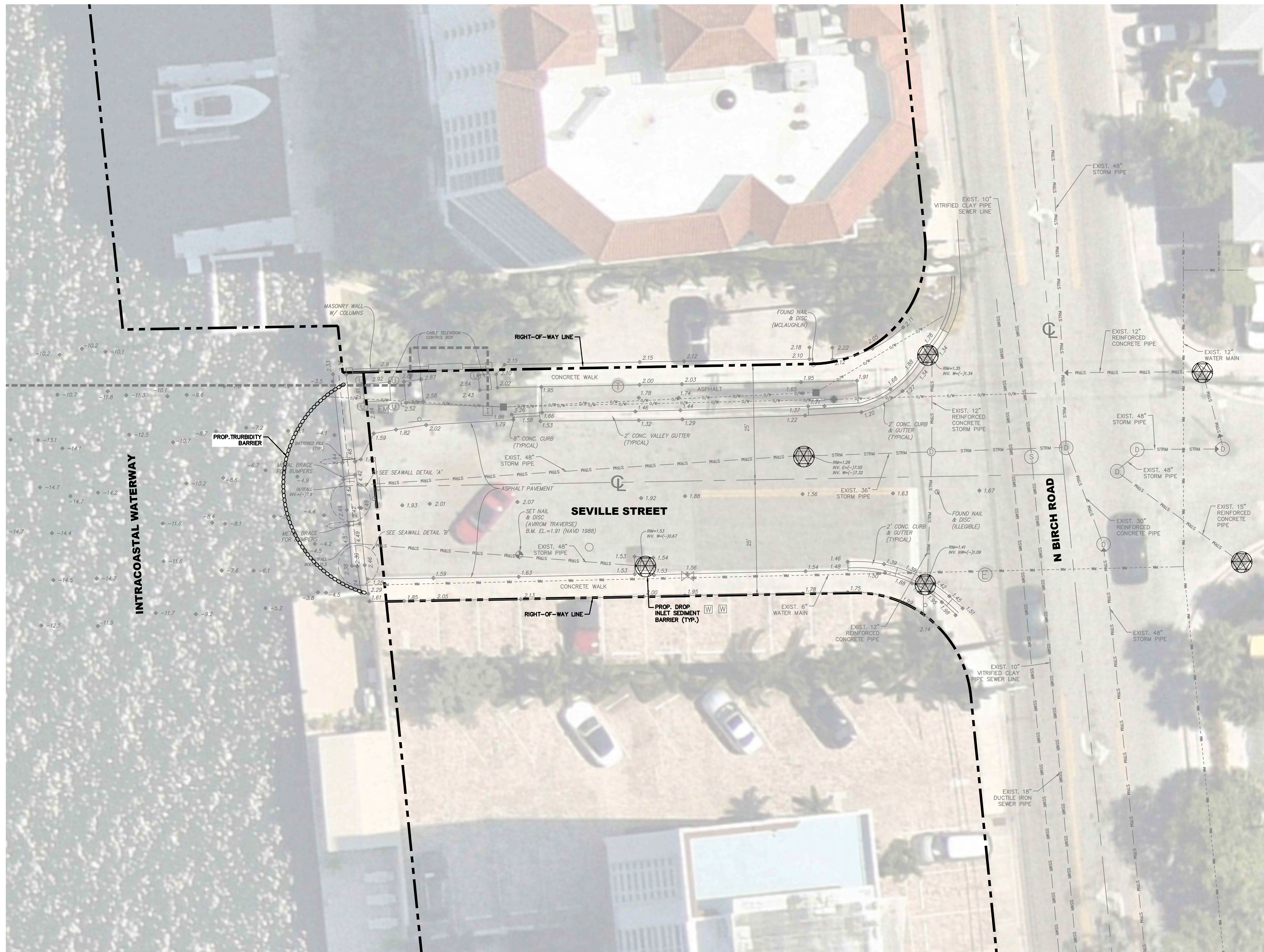
TOTAL: 18

CAD FILE: 12549-001-NOTE

DRAWING FILE NO. 12549

BID SET NOT FOR CONSTRUCTION

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GRAPHIC SCALE IN FEET
0 5 10 20

LEGEND

---	LIMITS OF RIGHT-OF-WAY
---	EXIST. ELEVATIONS
---	PROP. TURBIDITY BARRIER
---	PROP. DROP INLET SEDIMENT BARRIER

ENGINEER: CARLOS FLORIAN, P.E.
REC. No: 80500
DATE: 7/10/2025

DATE: 7/10/2025
DRAWN BY: DM
DESIGNED BY: CC
CHECKED BY: CF
FIELD BOOK:

TEL: 954-716-8868
FAX:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		DESCRIPTION
NO.	DATE	BY (HR/CD)

BID SET NOT FOR CONSTRUCTION

PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
EROSION CONTROL PLAN
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO. **003**

TOTAL: 18
CAD FILE: 12549-002-EROS
DRAWING FILE NO. 12549

Sunshine811

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ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

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GRAPHIC SCALE IN FEET
0 5 10 20

LEGEND	
---	LIMITS OF RIGHT-OF-WAY
---	EXIST. ELEVATIONS
○	PROP. TURBIDITY BARRIER
○	PROP. DROP INLET SEDIMENT BARRIER

ENGINEER:
CARLOS FLORIAN, P.E.
REC. No: 80500
DATE: 9/30/2025

DATE: 9/30/2025
DRAWN BY: DM
DESIGNED BY: CC
CHECKED BY: CF
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS	
NO.	DESCRIPTION

PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
EROSION CONTROL PLAN
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO.
004
TOTAL: 18
CAD FILE:
12549-002-EROS
DRAWING FILE NO.
12549



Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.
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ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

BID SET NOT FOR CONSTRUCTION

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ESC001 - EROSION AND SEDIMENT CONTROL NOTES - Revision: July 16, 2017

EROSION AND SEDIMENT CONTROL:

- CONTRACTOR TO EMPLOY BEST MANAGEMENT PRACTICES THROUGHOUT CONSTRUCTION IN ORDER TO ENSURE POLLUTION PREVENTION. CONTRACTOR TO COMPLY WITH ALL LOCAL STATE AND OTHER GOVERNMENTAL ENVIRONMENTAL REGULATIONS THROUGHOUT CONSTRUCTION.
- DURING CONSTRUCTION ALL CATCH BASIN INLETS SHALL BE PROTECTED TO PREVENT SEDIMENT AND DEBRIS FROM ENTERING THE CATCH BASIN.
- SILT FENCES SHALL BE INSTALLED AS NECESSARY TO CONTROL OR PREVENT DISCHARGE OF SEDIMENT ONTO ADJACENT UNDISTURBED AREAS, OR OFF-SITE AREAS.
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED WITHIN A REASONABLE PERIOD OF TIME TO ASSURE MINIMUM EROSION OF SOILS.
- NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
- ALL EXPOSED AREAS SHALL BE SODDEN AS SPECIFIED WITHIN 30 DAYS OF FINAL GRADING.
- MAINTAIN EROSION CONTROL MEASURES AFTER EACH RAIN AND AT LEAST ONCE A WEEK.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
- CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY CITY, COUNTY, AND STATE OF FLORIDA ON SITE INSPECTION, AT NO ADDITIONAL COST TO THE OWNER.
- LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
- IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
- BURNING OF DEBRIS WILL NOT BE ALLOWED.
- CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
- CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE IF IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES IF EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC. THE CONTRACTOR IS TO REMOVE AND CLEAN SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES. EROSION CONTROL BARRIER SHALL BE ESTABLISHED AS THE FIRST ITEM OF WORK.

CITY OF FORT LAUDERDALE
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EROSION AND SEDIMENT CONTROL NOTES
SHEET 1

ESC 001
20170706

ESC001 - EROSION AND SEDIMENT CONTROL NOTES - Revision: July 16, 2017

- THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S STORMWATER PERMITTING PROGRAM APPLIES TO ALL CONSTRUCTION ACTIVITY THAT: 1) CONTRIBUTES STORMWATER DISCHARGES TO SURFACE WATER OF THE STATE OR INTO A MUNICIPAL SEWER SYSTEM (MISA); 2) DISTURBS ONE OR MORE ACRES OF LAND; OR 3) LESS THAN ONE ACRE IS INCLUDED IF THE ACTIVITY IS PART OF A LARGER COMMON PLAN OF DEVELOPMENT THAT WILL MEET OR EXCEED THE ONCE ACRE THRESHOLD. DISTURB INCLUDES CLEARING, GRADING AND EXCAVATING.
- FOR CONSTRUCTION ACTIVITY THAT IS SUBJECT TO THE NPDES FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S STORMWATER PERMITTING PROGRAM, THE CONTRACTOR SHALL:
 - OBTAIN A GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DOCUMENT 62-621.300(4)(A).
 - COMPLY WITH ALL REQUIREMENTS OF THE GENERIC PERMIT.
 - DEVELOP AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
 - COMPLETE A NOTICE OF INTENT (NOI) FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FORM 62-621.300(4)(B) IN ITS ENTIRETY USING THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S WEBSITE.
- SUBMIT COPIES OF THE SWPPP AND THE NOI TO THE ENGINEER AS INFORMATIONAL RECORDS. THESE SUBMITTALS WILL NOT BE REVIEWED BY THE ENGINEER.
- CONTRACTOR TO CLEAN AND REPAIR ALL EXISTING STORMWATER INFRASTRUCTURE THAT IS IMPACTED BY CONSTRUCTION ACTIVITIES, BEFORE LEAVING THE JOBSITE.
- CONTRACTOR TO REMOVE ALL FILTER FABRIC AND POLLUTION PREVENTION ITEMS BEFORE THE FINAL WALK-THROUGH.

CITY OF FORT LAUDERDALE
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EROSION AND SEDIMENT CONTROL NOTES
SHEET 2

ESC 001
20170706

ESC006 - CURB INLET PROTECTION - CURB FILTER - Revision: July 16, 2017

NOTES:

- INSTALL CURB FILTERS AT ALL INLETS WITHOUT GRATES TO KEEP SILT, SEDIMENT AND CONSTRUCTION DEBRIS OUT OF THE STORM SYSTEM
- THE CURB FILTER SHALL BE DANDY CURB AS MANUFACTURED BY DANDY PRODUCTS INC., OR EQUAL. SUBMIT SHOP A SHOP DRAWING FOR THE CURB FILTERS.
- THE CURB FILTER SHALL FORM OF A CYLINDRICAL TUBE PLACED IN FRONT OF AND EXTENDING BEYOND THE INLET OPENING ON BOTH SIDES.
- THE CURB FILTER SHALL HAVE A POUCH ON THE STREET SIDE OF THE UNIT FOR STONE AGGREGATE TO HOLD THE FILTER IN PLACE.
- THE CURB FILTER SHALL BE CONSTRUCTED OF A HIGH VISIBILITY ORANGE MONOFILAMENT FABRIC.
- FILL POUCH WITH FDOT #57 STONE AGGREGATE TO A LEVEL (AT LEAST HALF-FULL) THAT WILL KEEP UNIT IN PLACE DURING A RAIN EVENT AND CREATE A SEAL BETWEEN THE CURB FILTER AND THE SURFACE OF THE STREET.
- CENTER THE UNIT AGAINST CURB OR MEDIAN INLET OPENING SO THAT THE CURB SIDE OF THE UNIT CREATES A SEAL WITH THE CURB OR MEDIAN BARRIER AND INLET STRUCTURE. THERE WILL BE APPROXIMATELY TWELVE (12) INCHES OF THE INLET PROTECTION UNIT OVERHANGING ON EACH SIDE OF THE OPENING.
- THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH RAIN EVENT.

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CURB INLET PROTECTION - CURB FILTER

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PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DROP INLET PROTECTION - SEDIMENT BARRIER

CONTRACTOR'S RESPONSIBILITY

EROSION AND SEDIMENTATION CONTROLS ARE PERFORMANCE BASED CRITERIA. IF THE BMP'S PROVIDED DO NOT PREVENT SOILS FROM LEAVING A CONSTRUCTION SITE, THEN THE CONTRACTOR IS REQUIRED TO EMPLOY ADDITIONAL PROCEDURES TO PROVIDE CLEAR RUNOFF FROM A SITE.

NOTES:

- DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%).
- USE 2"x4" WOOD OR EQUIVALENT METAL STAKES. (3' MIN. LENGTH).
- INSTALL 2"x4" WOOD TOP FRAME TO INSURE STABILITY.
- THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.
- MIRAFI OR APPROVED EROSION CONTROL FABRIC SHALL BE WRAPPED AROUND GRATE.
- THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

ATTACH FILTER FABRIC SECURELY TO 2"x4" WOOD FRAME, OVERLAPPING FABRIC TO NEXT STAKE

TOP FRAME NECESSARY FOR STABILITY 2"x4" WOOD FRAME 4 SIDES OF DROP INLET

PONDING HEIGHT

36" MAX. 12" MIN.

FABRIC

DROP INLET

DETAIL OF STAKE & FABRIC ORIENTATION

2" X 4" WOOD FRAME

1'-6" MAX.

GATHER EXCESS FABRIC AT CORNERS

ISOMETRIC VIEW

ESC 004
20170706

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

TURBIDITY BARRIER - FLOATING

5/16" VINYL SHEATHED EAW STEEL CABLE (8000 LBS. BREAKING STRENGTH) WITH GALVANIZED CONNECTORS (HOOK FREE DISCONNECT)

18 OZ. NYLON REINFORCED PVC FABRIC (300 PSI TEST)

18 OZ. NYLON REINFORCED PVC FABRIC (300 PSI TEST) W/ LACING GROMMETS

CLOSED CELL SOLID PLASTIC FOAM FLOTATION (6" DIA. EQUIV.) (17 LBS. PER FT. BUOYANCY)

18 OZ. NYLON REINFORCED PVC FABRIC (300 PSI TEST)

1/4" GALV. CHAIN

5/8" POLYPRO ROPE (600 LB. BREAKING STRENGTH)

POST (OPTIONS: 2"x4" OR 2" 1/2" MIN. DIA. WOOD; STEEL 1.33 LBS/FT MIN.)

6" MAX.

5" MIN.

18" MIN.

STAKED TURBIDITY BARRIER

NOTES:

- TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
- NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
- DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
- NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
- TYPE I TURBIDITY BARRIERS SHALL BE DESIGNED BY THE MANUFACTURER FOR USE IN CALM WATER AREAS SUCH AS SWALES, DITCHES, CANALS, SMALL PONDS, LAKES AND HARBORS. TYPE II TURBIDITY BARRIERS SHALL BE USED IN AREAS WHERE THERE IS NO CURRENT AND THE AREA IS SHELTERED FROM WIND AND WAVES.
- TYPE II TURBIDITY BARRIERS ARE DESIGNED BY THE MANUFACTURER FOR AREAS WITH MOVING WATER, CURRENTS, WAVES OR TIDE. TYPE II TURBIDITY BARRIERS SHALL BE USED IN WATER LOCATIONS WITH WAVES UP TO TWO FEET (2'), MODERATE WIND, AND CURRENTS UP TO 2 KNOTS OR 3.5 FEET PER SECOND.
- STAKED BARRIERS ARE CONTINUOUS PANELS OF PVC FABRIC THAT CONTAIN STORMWATER RUNOFF OR RE-DIRECT IT TO CHANNELS OR RETENTION AREAS.
- CONSTRUCTION SPECIFICATIONS: THE AREA OF INSTALLATION FOR THE PROPOSED TURBIDITY BARRIER SHALL BE INSPECTED FOR OBSTACLES AND IMPEDIMENTS THAT COULD DAMAGE THE BARRIER OR IMPAIR ITS EFFECTIVENESS TO RETAIN SEDIMENTS, REMOVE MATERIALS, OBSTACLES AND IMPEDIMENTS THAT COULD DAMAGE OR IMPAIR THE EFFECTIVENESS OF THE TURBIDITY BARRIER.
- MAINTENANCE: THE TURBIDITY BARRIER SHALL BE INSPECTED DAILY AND REPAIRED OR REPLACED IMMEDIATELY IF DAMAGED. IT IS NOT NORMALLY NECESSARY TO REMOVE SEDIMENT DEPOSITED BEHIND THE CURTAIN. HOWEVER, WHEN NECESSARY, REMOVAL SHALL BE DONE BY HAND PRIOR TO REMOVAL OF THE BARRIER. ALL REMOVED SILT SHALL BE STABILIZED AWAY FROM THE WATERBODY. THE BARRIER SHALL BE REMOVED SLOWLY AND BY CAREFULLY PULLING IT TOWARD THE CONSTRUCTION SITE TO MINIMIZE THE RELEASE OF SEDIMENTS.

EXISTING CAUSEWAY

PROPOSED TOE OF SLOPE

SHORE LINE

LIMITS OF CONSTRUCTION

TURBIDITY BARRIERS

LEGEND

- PILE LOCATIONS
- DREDGE OR FILL AREA
- MOORING BUOY WANCHOR
- ANCHOR
- BARRIER MOVEMENT DUE TO CURRENT ACTION

TURBIDITY APPLICATIONS

ESC 011
011
20170706



Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked. Check positive response codes before you dig!

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

BID SET NOT FOR CONSTRUCTION

ENGINEER: CARLOS FLORIAN, P.E.
REC. No: 80500
DATE: 9/30/2025

DATE: 9/30/2025

DESIGNED BY: CC

CHECKED BY: CF

FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

TEL: 954-716-8868
FAX:

NO.	DATE	BY	DESCRIPTION

PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
EROSION CONTROL NOTES AND DETAILS
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO.
005

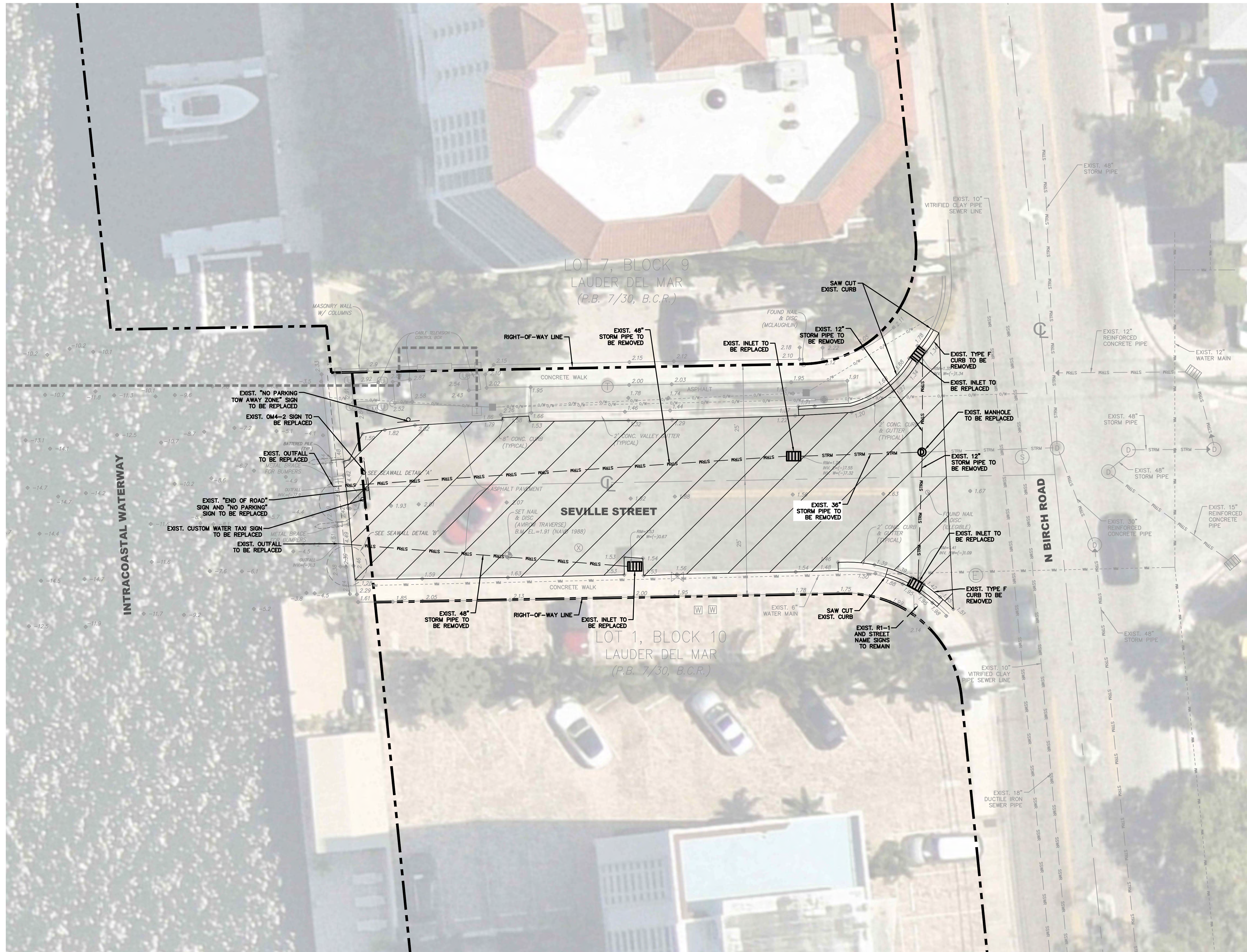
TOTAL: 18

CAD FILE:
12549-002-EROS

DRAWING FILE NO.
12549

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BCTED REF NO.: 250324060



GRAPHIC SCALE IN FEET
0 5 10 20

LEGEND
 --- LIMITS OF RIGHT-OF-WAY
 --- EXIST. ELEVATIONS
 --- LIMITS OF MILL AND RESURFACE

ENGINEER: CARLOS FLORIAN, P.E.
 REG. NO: 80500
 DATE: 9/30/2025

DATE: 9/30/2025
 DRAWN BY: DM
 DESIGNED BY: CC
 CHECKED BY: CF
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING & ARCHITECTURE
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY	DESCRIPTION

BID SET NOT FOR CONSTRUCTION

PROJECT # 13008
 SEBASTIAN AND SEVILLE
 SEAWALL REPLACEMENT
 DEMOLITION PLAN
 SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO.
006

TOTAL: 18
 CAD FILE: 12549-005-DEMO
 DRAWING FILE NO. 12549

Sunshine811
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 Check positive response codes before you dig!

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

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BCTED REF NO.: 250324060



GRAPHIC SCALE IN FEET
0 5 10 20

LEGEND

---	LIMITS OF RIGHT-OF-WAY
---E.L.O---	EXIST. ELEVATIONS
---	LIMITS OF MILL AND RESURFACE

ENGINEER: CARLOS FLORIAN, P.E.
REC. No: 80500
DATE: 9/30/2025

DATE: 9/30/2025
DRAWN BY: DM
DESIGNED BY: CC
CHECKED BY: CF
SCALE:
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS	
NO.	DESCRIPTION

BID SET NOT FOR CONSTRUCTION

PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
DEMOLITION PLAN
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO. 007

TOTAL: 18
CAD FILE: 12549-005-DEMO
DRAWING FILE NO. 12549

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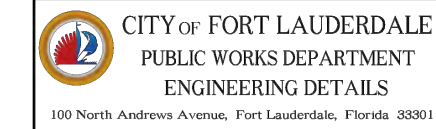
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DEMOLITION NOTES:

GENERAL DEMOLITION SPECIFICATIONS:

- THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY.
- PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES AND OTHER FEATURES AFFECTING THE WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT MIGHT IMPACT THE WORK.
- CHAPTER 553.851 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING.
- THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE EXCAVATION.
- THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, SUPERVISION, AND EQUIPMENT REQUIRED FOR THE ORDERLY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES, PAVEMENT AND UTILITIES AS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN.
- THE CONTRACTOR IS REQUIRED TO FAMILIARIZE HIMSELF WITH THE STRUCTURES TO BE DEMOLISHED.
- THE FOLLOWING LIST OF STRUCTURES REQUIRING DEMOLITION IS INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE DRAWINGS INDICATE THE SCOPE OF DEMOLITION WHERE DEMOLITION IS REQUIRED.
 - DEMOLITION AND REMOVAL OF A 5' MIN ± STRIP OF EXISTING ON-SITE ASPHALT, CONCRETE AND CURBING AROUND THE PERIMETER OF THE EXISTING STRUCTURES AND UTILITIES BEING DEMOLISHED.
 - REMOVAL OF EXISTING ON-SITE ABOVEGROUND AND UNDERGROUND UTILITIES, INCLUDING REMOVAL OR PLUGGING OF EXISTING UTILITIES AS SHOWN ON PLANS.
- PRIOR TO REMOVAL OF ANY UNDERGROUND TANK AND OTHER COMPONENT, CONTRACTOR MUST COMPLETELY DRAIN THE SYSTEMS TO AN APPROVED SANITATION TANK FOR DISPOSAL TO AN APPROVED LOCATION, AS REQUIRED BY DISPOSAL PERMIT.
- PROTECT ALL UTILITIES, UNLESS OTHERWISE NOTED.
- ALL THE CONCRETE AND PAVEMENT TO BE REMOVED MUST BE SAW CUT CLEAN PRIOR TO REMOVAL.
- WET DOWN MASONRY WALLS AND DEBRIS DURING DEMOLITION AND LOADING OPERATIONS TO PREVENT THE SPREAD OF DUST (AS APPLICABLE TO PROJECT).
- ALL EXISTING STRUCTURES, PAVEMENTS, SLABS, FOUNDATIONS, STEPS AND OTHER ON-SITE EXISTING FEATURES INDICATED ON THE DRAWINGS TO BE REMOVED SHALL BE DEMOLISHED AND REMOVED BY THE CONTRACTOR (AS APPLICABLE TO PROJECT).



CITY OF FORT LAUDERDALE
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ENGINEERING DETAILS

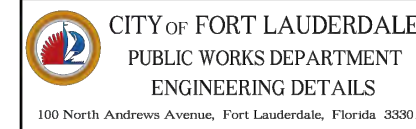
DEMOLITION NOTES
SHEET 1



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009-000 DEMOLITION NOTES REVISED, JULY 17, 2017

- ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ON THE DRAWINGS ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO REMOVAL OR RELOCATION OF ANY ELECTRICAL, TELEPHONE, CABLE AND/OR GAS LINES. SUFFICIENT TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE.
- CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER/ENGINEER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINANT IS ENCOUNTERED DURING THE DEMOLITION/EXCAVATION PROCESS.
- FILL FOR LOWER LEVELS OF DEMOLISHED STRUCTURES MAY INCLUDE CONCRETE OR MASONRY RUBBLE RESULTING FROM DEMOLITION, SUBJECT TO THE ENGINEER'S/ARCHITECT'S APPROVAL. RUBBLE SHALL PASS THROUGH A THREE-INCH RING.
- REMOVE AND LEGALLY DISPOSE OF ALL OTHER RUBBISH, RUBBLE, AND DEBRIS. COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS GOVERNING DISPOSAL OF WASTES AND DEBRIS.
- MAINTAIN ACCESS TO SURROUNDING PROPERTIES AND BUILDINGS.
- PRIOR TO DEMOLITION OCCURRING ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
- ALL TRAFFIC SIGNS OUTSIDE THE DEMOLITION AREA ARE TO REMAIN UNLESS OTHERWISE SPECIFIED.
- ANY MUCK ENCOUNTERED UNDER PROPOSED STRUCTURES SHALL BE REMOVED TO FIVE-FEET BEYOND THE FOOTPRINT OF THAT STRUCTURE. BACKFILL WITH APPROVED FILL MATERIAL SATISFYING ALL COMPACTION REQUIREMENTS.
- ALL EXISTING UTILITIES WITHIN THE DEMOLITION SITE AREA SHALL BE ADJUSTED, REMOVED OR RELOCATED AT THE CONTRACTOR'S EXPENSE. WORK SHALL BE COORDINATED BY THE CONTRACTOR DIRECTLY WITH THE APPROPRIATE UTILITY COMPANY. ALL EXPENSES SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
- ALL TRASH, DEBRIS AND OTHER MATERIAL REMOVED FROM THE SITE SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.



CITY OF FORT LAUDERDALE
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ENGINEERING DETAILS

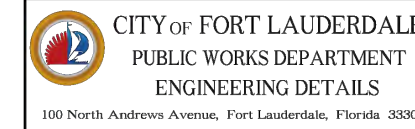
DEMOLITION NOTES
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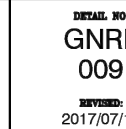
009-000 DEMOLITION NOTES REVISED, JULY 17, 2017

- PRE-DEMOLITION RESPONSIBILITIES:**
- UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRE-DEMOLITION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE ENGINEER AND THE CONTRACTOR.
 - PRIOR TO DEMOLITION, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A DEMOLITION SCHEDULE DEPICTING EACH PHASE OF THE WORK.
 - PRIOR TO DEMOLITION, CONTRACTOR TO PROVIDE FOR THE OWNER A LISTING OF THE FACILITIES THE CONTRACTOR SHALL UTILIZE FOR RECYCLING AND DISPOSAL OF SPECIFIC MATERIALS. CONTRACTOR TO INDICATE THE MATERIALS INTENDED FOR RECYCLING AND THE MATERIALS INTENDED FOR DISPOSAL FOR OWNER'S APPROVAL.
 - PRIOR TO DEMOLITION, CONTRACTOR TO PROVIDE THE OWNER SKETCHES SHOWING PROPOSED HAULING ROUTES TO RECYCLING AND DISPOSAL FACILITIES FOR APPROVAL.
 - PRIOR TO DEMOLITION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF DEMOLITION.
 - EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE CITY AND THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH IT FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.
 - THE LOCATIONS OF EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY.
 - PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL FIELD LOCATE EXISTING UNDERGROUND UTILITIES WITH THE UTILITY OWNERS.
 - THE CONTRACTOR IS RESPONSIBLE FOR RELOCATION'S OF THE VARIOUS EXISTING UTILITIES WITH THE UTILITY OWNERS, WHICH SHALL BE DONE IN A TIMELY MANNER TO MINIMIZE IMPACT ON DEMOLITION SCHEDULE. ANY DELAY CAUSED BY THE CONTRACTOR BY THE RELOCATION OF UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
 - SUNSHINE STATE ONE CALL OF FLORIDA, INC. REQUIRES THE CONTRACTOR TO CALL TWO (2) FULL BUSINESS DAYS (BUT NOT MORE THAN FIVE) PRIOR TO BREAKING GROUND TO FIND OUT WHERE BURIED FACILITIES (ELECTRICAL, GAS, TELEPHONE, CABLE, WATER) ARE LOCATED.



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

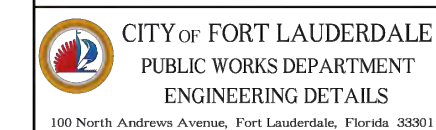
DEMOLITION NOTES
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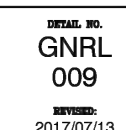
009-000 DEMOLITION NOTES REVISED, JULY 17, 2017

- DEMOLITION SAFETY:**
- ALL DEMOLITION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.
 - PROVIDE ADEQUATE PROTECTION FOR PERSONS AND PROPERTY AT ALL TIMES. EXECUTE THE WORK IN A MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY AND PREVENT INTERFERENCE WITH THE USE OF AND ACCESS TO ADJACENT BUILDINGS. STREETS AND SIDEWALKS SHALL NOT BE UNNECESSARILY BLOCKED BY DEBRIS AND EQUIPMENT.
 - BUILDING MATERIALS TO BE REMOVED SHALL BE TESTED FOR ASBESTOS AND LEAD PAINT.
 - IF PETROLEUM PRODUCTS ARE FOUND WHILE DEMOLISHING, DISPOSE OF PETROLEUM WASTE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- PAVEMENT DEMOLITION:**
- WHERE EXISTING PAVEMENT IS TO BE REMOVED, SAW-CUT THE SURFACING LEAVING A UNIFORM AND STRAIGHT EDGE WITH MINIMUM DISTURBANCE TO THE REMAINING ADJACENT SURFACING. IF DEMOLITION RESULTS IN RAVELING OF SAW CUT SURFACE, RECUT BACK FROM THE RAVELED EDGE PRIOR TO RESTORATION.
 - WHERE EXISTING PAVEMENT, CURB, GUTTER, SIDEWALK, DRIVEWAY, OR VALLEY GUTTER IS REMOVED FOR INLETS, MANHOLES, APPURTENANCES, FACILITIES OR STRUCTURES, SAID PAVEMENT, ETC., SHALL BE REPLACED WITH NEW PAVEMENT, ETC. CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS, SUPPLIES, AND OTHER EQUIPMENT AS REQUIRED.
 - CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THE DRAWINGS. HOWEVER, IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, SIDEWALK, BUILDINGS, UTILITIES, ETC., THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPLACEMENT. REPLACEMENT PAVEMENT, SIDEWALK, ETC., SHALL BE NEW.



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
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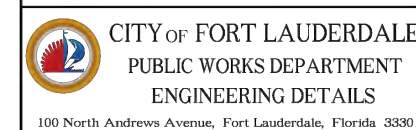
DEMOLITION NOTES
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009-000 DEMOLITION NOTES REVISED, JULY 17, 2017

- DEMOLITION PERMITTING:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY REQUIRED PERMITS FOR DEMOLITION FROM RESPONSIBLE REGULATORY AGENCIES WHILE FULLY ACKNOWLEDGING AND COMPLYING WITH ALL REQUIREMENTS PRIOR TO COMMENCING DEMOLITION WORK.
 - IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE EXTENT OF DEMOLITION, RECYCLING OR REUSE REQUIRED TO PERFORM THE CONTRACT WORK FOR THIS PROJECT. THE CONTRACTOR SHALL CONDUCT SITE VISITS AND SHALL EXAMINE ALL THE INFORMATION WITHIN THESE DOCUMENTS. ALL DISCREPANCIES AND/OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID SUBMITTAL.
 - THE CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO COMMENCEMENT OF ANY WORK. ACTUAL REMOVAL AND/OR RELOCATION OF ALL EXISTING LANDSCAPING WITHIN DEMOLITION AREAS TO BE CONDUCTED BY A LANDSCAPE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE SITEWORK DEMOLITION CONTRACTOR TO COORDINATE DEMOLITION ACTIVITIES WITH THE LANDSCAPE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND PRESERVING TREES AS INDICATED ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TREE REMOVAL PERMIT OR ANY OTHER APPLICABLE PERMIT TO REMOVE, RELOCATE, OR PRESERVE EXISTING LANDSCAPE AND TREES.
 - ANY TREES FOR REMOVAL FOUND TO BE GREATER THAN OR EQUAL TO THREE (3) INCHES IN DIAMETER AT BRESTH HEIGHT (DBH) SHALL REQUIRE A PERMIT WITH THE BROWARD COUNTY ENVIRONMENTAL PROTECTION AND GROWTH MANAGEMENT DEPARTMENT (BCEP/GMD).
 - SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE THE LIGHTING, STORM INLET STRUCTURES, OR OTHER STRUCTURES DESIGNATED TO BE SAVED, THEN THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
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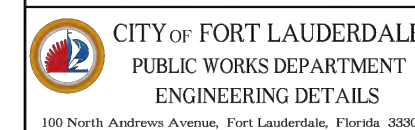
DEMOLITION NOTES
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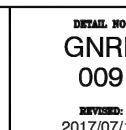
009-000 DEMOLITION NOTES REVISED, JULY 17, 2017

- DEMOLITION EROSION AND SEDIMENT CONTROL NOTES:**
- THE SCHEDULING, SEQUENCING AND CONTROL MEASURES, WHICH ARE OUTLINED HEREIN, ARE SUBJECT TO THE FINAL DEFINITION BY THE CONTRACTOR WHO SHALL BE SELECTED TO PERFORM THE WORK AND SHALL BE RESPONSIBLE FOR IMPLEMENTATION AND COMPLIANCE.
 - PRIOR TO DEMOLITION, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A DEMOLITION SCHEDULE DEPICTING EACH PHASE OF THE WORK. THE CONTRACTOR SHALL ALSO BE REQUIRED TO SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN ENCOMPASSING THE PRINCIPALS AND THE REQUIREMENTS DESCRIBED HEREIN AND A SCHEDULE FOR THEIR IMPLEMENTATION AND MAINTENANCE FOR THE PROJECT DURATION.
 - DURING DEMOLITION, THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO ENSURE AGAINST POLLUTING, SILTATION OR DISTURBANCE TO SUCH AN EXTENT AS TO CAUSE AN INCREASE IN TURBIDITY TO THE EXISTING DRAINAGE SYSTEMS AND ADJACENT WATER BODIES AND WETLANDS, IN COMPLIANCE WITH ALL PERMIT REQUIREMENTS RELATED TO SUCH MEASURES.
 - METHODS MAY INCLUDE TEMPORARY EROSION AND SEDIMENT CONTROLS SUCH AS SEDIMENT BASINS, SEDIMENT CHECKS, SILT BARRIERS, SILT SCREENS, TURBIDITY BARRIERS OR THE BEST MANAGEMENT PRACTICES AVAILABLE TO THE INDUSTRY.
 - EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE MAINTAINED THROUGHOUT THE DEMOLITION PERIOD AND UNTIL NEW VEGETATIVE GROWTH HAS BEEN ESTABLISHED.
 - THROUGHOUT THE DEMOLITION PERIOD, THE CONTRACTOR SHALL INSPECT DAILY THE EROSION AND SEDIMENT CONTROL INSTALLATIONS FOR FAILURE OR SIGNS OF FAILURE OR MALFUNCTION. REPAIR OR REPLACE THE EROSION AND SEDIMENT CONTROL INSTALLATIONS IMMEDIATELY UPON DISCOVERY OF FAILURE OR MALFUNCTION.
 - INLETS AND CATCH BASINS, EXISTING ON-SITE AND OFF-SITE, SHALL BE PROTECTED FROM SEDIMENT STORM RUNOFF.
 - THE CONTRACTOR SHALL PROMPTLY REMOVE ALL MUD, DIRT OR OTHER MATERIALS TRACKED OR SPILLED ONTO EXISTING PUBLIC ROADS AND FACILITIES DUE TO DEMOLITION.
 - DEWATERING ACTIVITIES SHALL NOT RESULT IN ANY DISCHARGE OF TURBID WATER FROM THE PROJECT SITE WITHOUT PROPER EROSION AND SEDIMENT CONTROL AND APPROVAL FROM ENGINEER.
 - PHASING OF EROSION CONTROL DEMOLITION SHALL BE RECOMMENDED AS FOLLOWS:
 - PLACEMENT OF PERIMETER PROTECTIVE MEASURES (SILT FENCE, HAY BALES, TURBIDITY BARRIERS, ETC.) AROUND ON-SITE FEATURES TO BE RETAINED, AT POINTS OF OFF-SITE DISCHARGE AND AROUND WORK AREAS TO BE EXCAVATED OR FILLED.
 - REROUTE RUNOFF FROM AREAS OUTSIDE OF THE DEMOLITION AREA TO MINIMIZE FLOW THROUGH AREAS TO BE DISTURBED BY DEMOLITION. BERMS, SWALES AND OTHER MEANS USED FOR SUCH CONVEYANCE SHALL BE VEGETATED AND MEASURES TAKEN TO PROVIDE PROTECTION UNTIL STABILIZATION OCCURS (AS APPLICABLE TO THE PROJECT).



CITY OF FORT LAUDERDALE
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DEMOLITION NOTES
SHEET 6



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ENGINEER:
CARLOS FLORIAN, P.E.
REG. NO: 80500
DATE: 9/30/2025

DATE: 9/30/2025
SCALE:
DESIGNED BY: CC
CHECKED BY: CF
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY (HR/CD)	DESCRIPTION

PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
DEMOLITION NOTES AND DETAILS
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO.
008

TOTAL: 18
CAD FILE: 12549-006-DETAILS
DRAWING FILE NO. 12549

BCTED REF NO.: 250324060

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10.3. SELECT LOCATIONS FOR PLACEMENT OF EXCAVATED MATERIAL, WHERE SUITABLE FOR FILL OR UNSUITABLE MATERIAL, AND CONSTRUCT CONTAINMENT BERMS AROUND THE AREA. THE USE OF STRIPING FOR THIS PURPOSE MAY ACCELERATE BERM REVEGETATION. CONSTRUCT TEMPORARY OUTLETS FOR CONTAINMENT AREAS WITH SCREENS, HAY BALES, SETTLING BASINS OR OTHER MEASURES TO PREVENT SILT TRANSPORT.

10.4. SELECT / DESIGNATE ACCESS ROUTING FOR DEMOLITION EQUIPMENT AND VEHICLES AND PROVIDE PERIMETER PROTECTIVE MEASURES WHERE EXISTING TERRAIN SHALL BE SUBJECT TO DISRUPTION BY SUCH TRAFFIC.

10.5. CONSTRUCT ABOVE GROUND OR OTHER CONTAINMENT AREAS FOR DEMOLITION AREA RUNOFF. PROVIDE SCREENS, HAY BALES, ETC. TO FILTER DISCHARGE FROM THOSE AREAS.

10.6. SPOIL MOUNDS SHALL NOT BE LEFT FOR MORE THAN ONE WEEK PRIOR TO REPLACEMENT UNLESS PROTECTIVE CONTAINMENT MEASURES IN THE WORK AREA ARE APPLIED.

10.7. GRASSING, SODDING, ETC. SHALL BE IN PLACE IMMEDIATELY UPON COMPLETION OF REGRADING, SWALE SLOPES AND THE CONSTRUCTED OR DISTURBED AREAS.

11. THE CONTRACTOR IS REQUIRED TO ADHERE TO THE REQUIREMENT OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES). THE CONTRACTOR SHALL INSTITUTE BEST MANAGEMENT PRACTICES (BMPs) TO ENSURE COMPLIANCE WITH THE NPDES PROGRAM AND TO MINIMIZE THE IMPACT TO PUBLIC STORMWATER FACILITIES. A NOTICE OF INTENT (NOI) SHALL BE FILED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.

12. THE CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND MAINTAIN ALL RECORDS REQUIRED BY ITS NPDES STORMWATER PERMIT FOR ITS CONSTRUCTION ACTIVITIES.

13. PRIOR TO CONSTRUCTION, A SILT FENCE IN ACCORDANCE WITH CITY'S DETAIL SHALL BE ERECTED AS NOTED ON PLANS. ALL PROPOSED CATCH BASINS SHALL HAVE THEIR INLETS PROTECTED BY THE INSTALLATION OF FILTER INLET INSERTS INTO THE FRAME AND GRATE. SILT FENCES AND FILTER INLET INSERTS SHALL REMAIN IN PLACE DURING THE ENTIRE DURATION OF CONSTRUCTION.

14. CONTRACTOR SHALL BRACE ALL EXISTING LANDSCAPING TO REMAIN PRIOR TO BEGINNING ANY WORK AND SHALL ENSURE ITS STABILIZATION THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. EXISTING SOD DISTURBED BY CONSTRUCTION THAT IS NOT AFFECTED BY PROPOSED GRADING SHALL BE RESTORED TO NEW CONDITION UPON COMPLETION OF CONSTRUCTION. SODDED SLOPES STEEPER THAN FOUR HORIZONTAL TO ONE VERTICAL SHALL BE PEGGED.

15. ALL WASTE GENERATED FROM THE CONSTRUCTION SHALL BE DISCARDED IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. CONTRACTOR SHALL OBTAIN ALL APPLICABLE CODES AND BECOME FAMILIAR WITH STATE, LOCAL AND FEDERAL REGULATIONS PRIOR TO BEGINNING CONSTRUCTION.

16. TO ENSURE THAT OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST IS MINIMIZED, CONTRACTOR SHALL PUT INTO PRACTICE THE METHODS DETAILED IN FLORIDA DEPARTMENT OF TRANSPORTATION INDEX 106 (2010 DESIGN STANDARDS) AND BMPs.

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17. DUST GENERATED FROM CONSTRUCTION SHALL BE MINIMIZED BY DAILY WATERING OF THE SITE.

18. AT ANY TIME DURING CONSTRUCTION THAT THE SILT FENCING IS DISTURBED, THE SILT FENCING SHALL BE RESTORED TO ITS ORIGINAL STATE WITHIN 24 HOURS. AT NO TIME DURING CONSTRUCTION SHALL WORK BE PERFORMED WITHOUT THE INTEGRITY OF THE SILT FENCING SECURED.

19. A QUALIFIED INSPECTOR, PROVIDED BY THE CONTRACTOR, SHALL INSPECT ALL POINTS OF DISCHARGE INTO NEARBY SURFACE WATER. THE INSPECTION SHALL OCCUR AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER. INSPECTION INCLUDES THE WRITTEN RECORDING OF THE CONDITION OF ALL DISCHARGE POINTS, INTEGRITY OF SILT FENCING, DAILY DUST CONTROL MEASURES, VEHICULAR TRAFFIC AND CONSTRUCTION MATERIAL STORAGE AND DISPOSAL. WRITTEN RECORD OF ALL INSPECTIONS SHALL BE STORED BY THE CONTRACTOR.

20. THE INSPECTION REPORT SHALL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING INFORMATION: NAME AND QUALIFICATION OF PERSONNEL MAKING THE INSPECTION, DATE OF INSPECTION, RAINFALL DATE, MAJOR OBSERVATIONS RELATING TO THE SWPPP, ACTIONS TAKEN BY CONTRACTOR AND ANY INCIDENT OF NONCOMPLIANCE WITH PERMIT. WHERE AN INSPECTION DOES NOT IDENTIFY ANY INCIDENT OF NONCOMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE SWPPP AND THE PERMIT.

21. THE CONTRACTOR SHALL RETAIN A COPY OF THE SWPPP AND ALL REPORTS, RECORDS AND DOCUMENTATION REQUIRED BY THE PERMIT AT THE CONSTRUCTION SITE, OR AN APPROPRIATE ALTERNATIVE LOCATION AS SPECIFIED IN THE NOTICE OF INTENT, FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

22. THE CONTRACTOR SHALL RETAIN THE SWPPP, NOI AND ALL RECORDS ASSOCIATED THEREWITH FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED.

23. SEE LANDSCAPE PLANS FOR TREE REMOVAL AND LANDSCAPE DEMOLITION.

24. CONTRACTOR SHALL COORDINATE THROUGH CITY'S CONSTRUCTION DIVISION AND CITY'S PARKS DEPARTMENT ON HOW TO STOCK AND RE-USE EXCAVATED SOIL FROM SITE (AS APPLICABLE TO THE PROJECT).

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SHEET 8

INTERRUPTION OF EXISTING UTILITIES:

1. ANY DEMOLITION WORK THAT REQUIRES INTERRUPTION OF SERVICE TO ANY CUSTOMER SHALL BE DONE SO WITH A MINIMUM OF SEVENTY-TWO (72) HOUR WRITTEN NOTICE TO, AND WRITTEN APPROVAL BY, THE APPROPRIATE UTILITY COMPANY.

2. THE CONTRACTOR SHALL ARRANGE A MEETING WITH THE LOCAL JURISDICTIONAL AGENCIES AND OTHER GOVERNING AGENCIES, AND OTHER AFFECTED UTILITIES PRIOR TO SCHEDULING THE SHUT DOWN TO ASSESS THE SCOPE OF WORK.

3. ALL SYSTEM SHUT DOWNS SHALL BE SCHEDULED BY THE CONTRACTOR AT SUCH TIME THAT SYSTEM DEMAND IS LOW. THIS GENERALLY REQUIRES NIGHT TIME WORK BY THE CONTRACTOR AND REQUIRES FULL-TIME INSPECTION BY A REPRESENTATIVE OF THE UTILITY. ALL COST FOR OVERTIME WORK BY THE REPRESENTATIVE OF THE UTILITY SHALL BE BORNE BY THE CONTRACTOR.

4. EACH CUSTOMER AFFECTED BY THE SHUT-DOWN SHALL BE PROVIDED, MINIMUM, FORTY-EIGHT (48) HOURS WRITTEN NOTIFICATION BY THE CONTRACTOR.

TEMPORARY DEMOLITION FACILITIES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY TO ITS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING DEMOLITION.

2. MAINTENANCE OF TRAFFIC (MOT) IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.

3. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

4. NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS WRITTEN PERMISSION OF THE CITY OR RESPECTIVE GOVERNING AGENCY.

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WASTE MANAGEMENT PLAN:

1. IMPLEMENT A WASTE MANAGEMENT PLAN FOR APPROVAL BY THE OWNER. PROVIDE HANDLING, CONTAINERS, STORAGE, SIGNAGE, TRANSPORTATION AND OTHER ITEMS AS NEEDED TO IMPLEMENT THE WASTE MANAGEMENT PLAN DURING THE ENTIRE DURATION OF THE CONTRACT.

2. DESIGNATE A WASTE MANAGEMENT COORDINATOR TO BE RESPONSIBLE FOR IMPLEMENTING, MONITORING AND REPORTING STATUS OF WASTE MANAGEMENT WORK PLAN. COORDINATOR SHALL BE PRESENT AT PROJECT SITE FULL-TIME FOR DURATION OF PROJECT.

3. TRAIN WORKERS, SUBCONTRACTORS AND SUPPLIERS ON PROPER WASTE MANAGEMENT PROCEDURES, AS APPROPRIATE FOR THE WORK AT THE PROJECT SITE.

4. DISTRIBUTE A WASTE MANAGEMENT PLAN BEFORE WORK BEGINS. REVIEW PLAN PROCEDURES AND LOCATION ESTABLISHED FOR SALVAGE, RECYCLING AND DISPOSAL.

RECYCLING DEMOLITION WASTE:

1. SEPARATE RECYCLABLE WASTE FROM OTHER WASTE MATERIALS, TRASH AND DEBRIS. SEPARATE RECYCLABLE WASTE BY TYPE AT THE PROJECT SITE TO THE MAXIMUM EXTENT PRACTICAL.

2. PROVIDE APPROPRIATELY MARKED CONTAINERS OR BINS FOR CONTROLLING RECYCLABLE WASTE UNTIL THEY ARE REMOVED FROM THE PROJECT SITE. INCLUDE A LIST OF ACCEPTABLE AND UNACCEPTABLE MATERIALS AT EACH CONTAINER AND BIN.

3. INSPECT CONTAINERS AND BINS FOR CONTAMINATION AND REMOVE CONTAMINATED MATERIALS IF FOUND.

4. STOCKPILE PROCESSED MATERIALS ON-SITE WITHOUT INTERMIXING WITH OTHER MATERIALS. PLACE, GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST.

5. STOCKPILE MATERIALS AWAY FROM DEMOLITION AREA. DO NOT STORE WITHIN DRIP LINE OF REMAINING TREES.

6. STORE COMPONENTS OFF THE GROUND AND PROTECT FROM THE WEATHER.

7. REMOVE RECYCLABLE WASTE OFF THE OWNER'S PROPERTY AND TRANSPORT TO RECYCLING RECEIVER OR PROCESSOR.

8. ASPHALTIC CONCRETE PAVING: BREAK UP AND TRANSPORT PAVING TO ASPHALT RECYCLING FACILITY.

9. CONCRETE: REMOVE REINFORCEMENT AND OTHER METALS FROM CONCRETE AND SORT WITH OTHER METALS.

10. MASONRY: MASONRY WASTE SHALL INCLUDE WHOLE OR BROKEN BRICK AND CONCRETE MASONRY UNITS. WHOLE MASONRY UNITS SHALL BE CLEANED AND REUSED OR DONATED. BROKEN MASONRY SHALL BE CRUSHED AND USED AS FILL FOR OFFSITE AREAS. REMOVE METAL REINFORCEMENT, ANCHORS AND TIES FROM MASONRY AND SORT WITH OTHER METALS.

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DEMOLITION NOTES
SHEET 10

11. METALS: METALS FROM REINFORCED CONCRETE, REINFORCED MASONRY, STRUCTURAL STEEL MEMBERS, FLASHING AND SHEET METAL, CONDUIT PIPE, SIDING, PIPING AND WIRING SHALL BE SEPARATED BY TYPE.

12. STRUCTURAL STEEL: STACK MEMBERS ACCORDING TO THEIR SIZE, TYPE AND LENGTH.

13. NUTS AND BOLTS: REMOVE BOLTS, NUTS, WASHERS AND OTHER ROUGH HARDWARE.

14. SITE-CLEARING WASTE SHALL BE RECYCLED BY CHIPPING BRUSH, BRANCHES AND TREES, THEN HAUL TO WOOD RECYCLING CENTER.

DISPOSAL OF WASTE:

1. GENERAL: EXCEPT FOR ITEMS OR MATERIALS TO BE SALVAGED, RECYCLED OR OTHERWISE REUSED, REMOVE WASTE MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN A LANDFILL OR OTHER PERMITTED DISPOSAL FACILITY.

2. EXCEPT AS OTHERWISE SPECIFIED, DO NOT ALLOW WASTE MATERIALS THAT ARE TO BE DISPOSED OF TO ACCUMULATE ON-SITE.

3. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT SHALL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.

4. BURNING: DO NOT BURN WASTE MATERIALS.

5. DISPOSAL: TRANSPORT WASTE MATERIALS OFF THE OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM.

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DEMOLITION NOTES
SHEET 11

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ENGINEER:
CARLOS FLORIAN, P.E.
REC. No: 80500
DATE: 9/30/2025

DRAWN BY: DATE: 9/30/2025
DM
DESIGNED BY: SCALE:
CC
CHECKED BY: CF
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

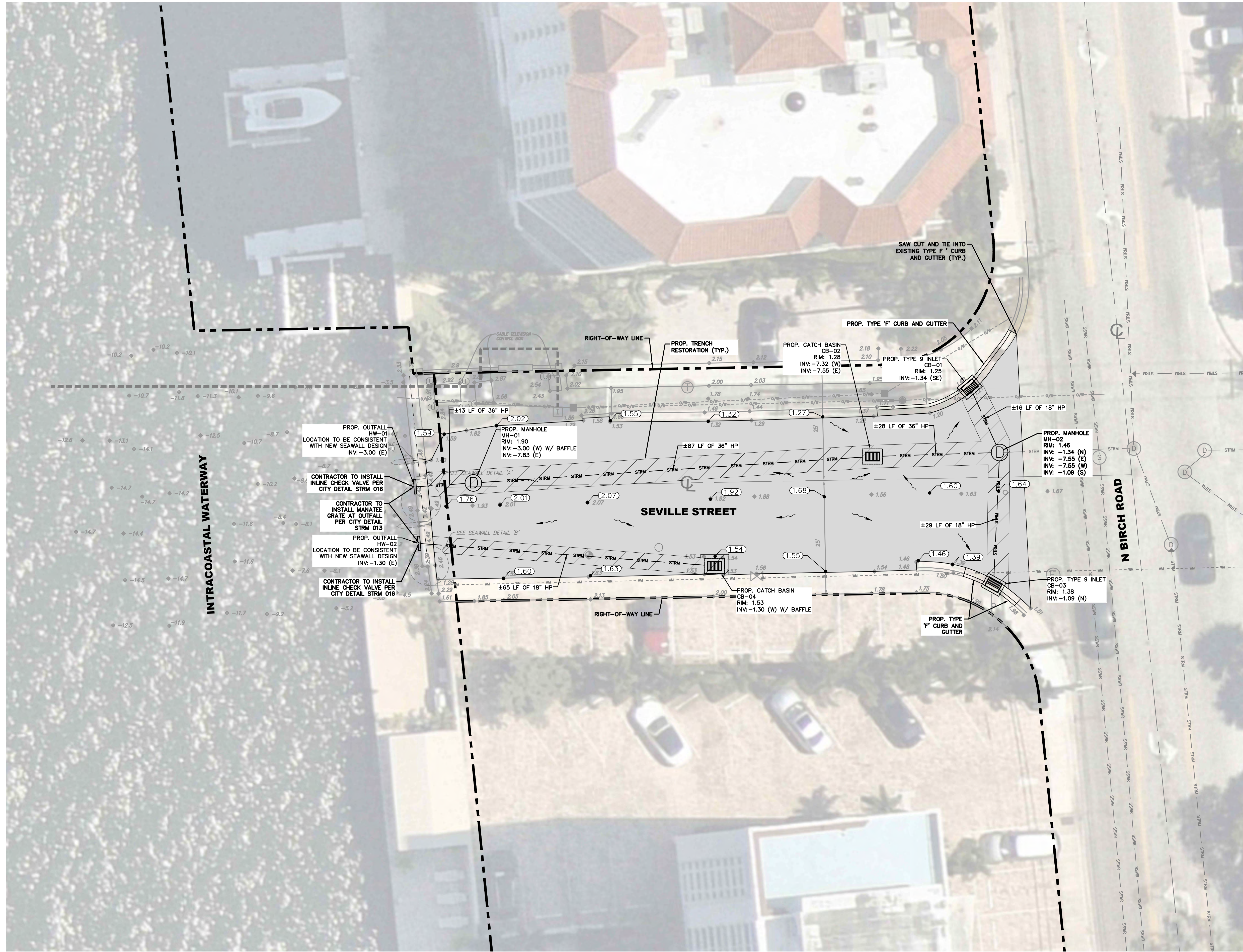
NO.	DATE	BY (HR/CD)	DESCRIPTION

PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
DEMOLITION NOTES AND DETAILS
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO.
009

TOTAL: 18
CAD FILE:
12549-006-DETAILS
DRAWING FILE NO.
12549

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GRAPHIC SCALE IN FEET
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LEGEND

- LIMITS OF RIGHT-OF-WAY
- PROP. STORM SEWER
- PROP. CATCH BASIN
- ◊ -2.0 EXIST. ELEVATIONS
- ◊ -3.00 PROP. ELEVATIONS
- TRENCH RESTORATION
- MILL AND RESURFACE

ENGINEER: CARLOS FLORIAN, P.E.
REC. No: 80500
DATE: 9/30/2025

DATE: 9/30/2025
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NO.	DATE	BY	DESCRIPTION

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PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
PAVING, GRADING AND DRAINAGE PLAN
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO.
010

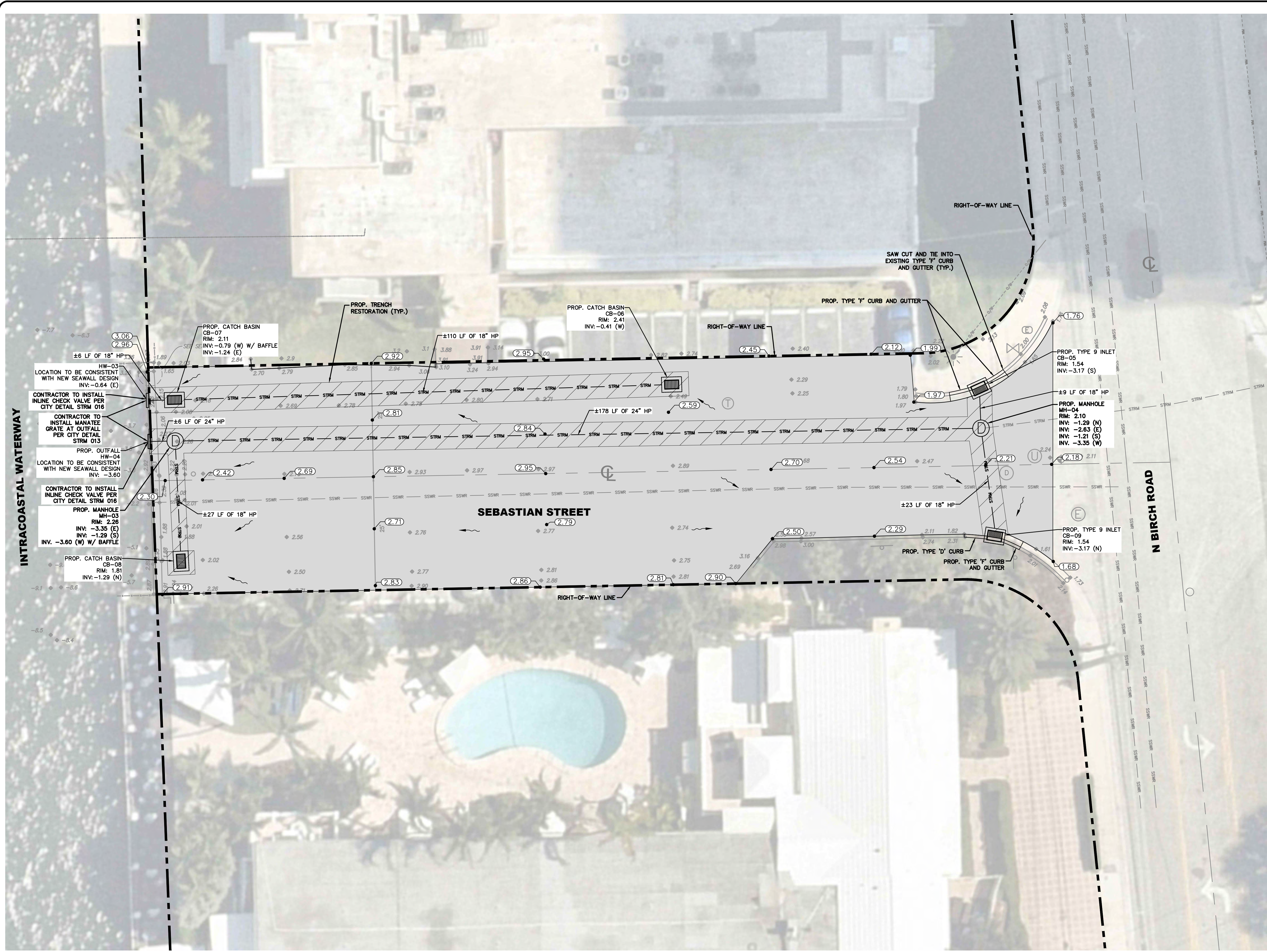
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GRAPHIC SCALE IN FEET
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LEGEND

- LIMITS OF RIGHT-OF-WAY
- PROP. STORM SEWER
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SEAWALL REPLACEMENT
PAVING, GRADING AND DRAINAGE PLAN
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

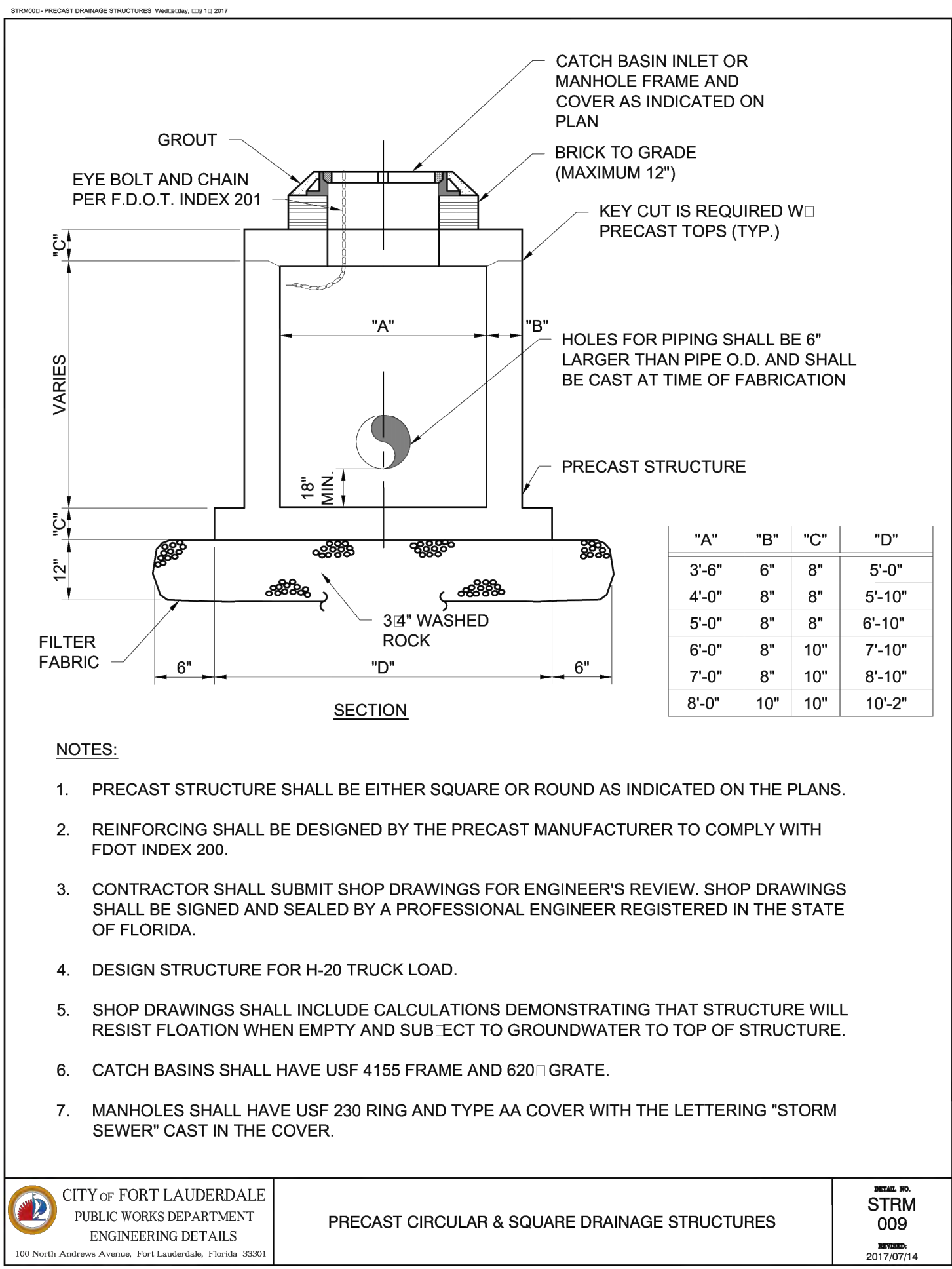
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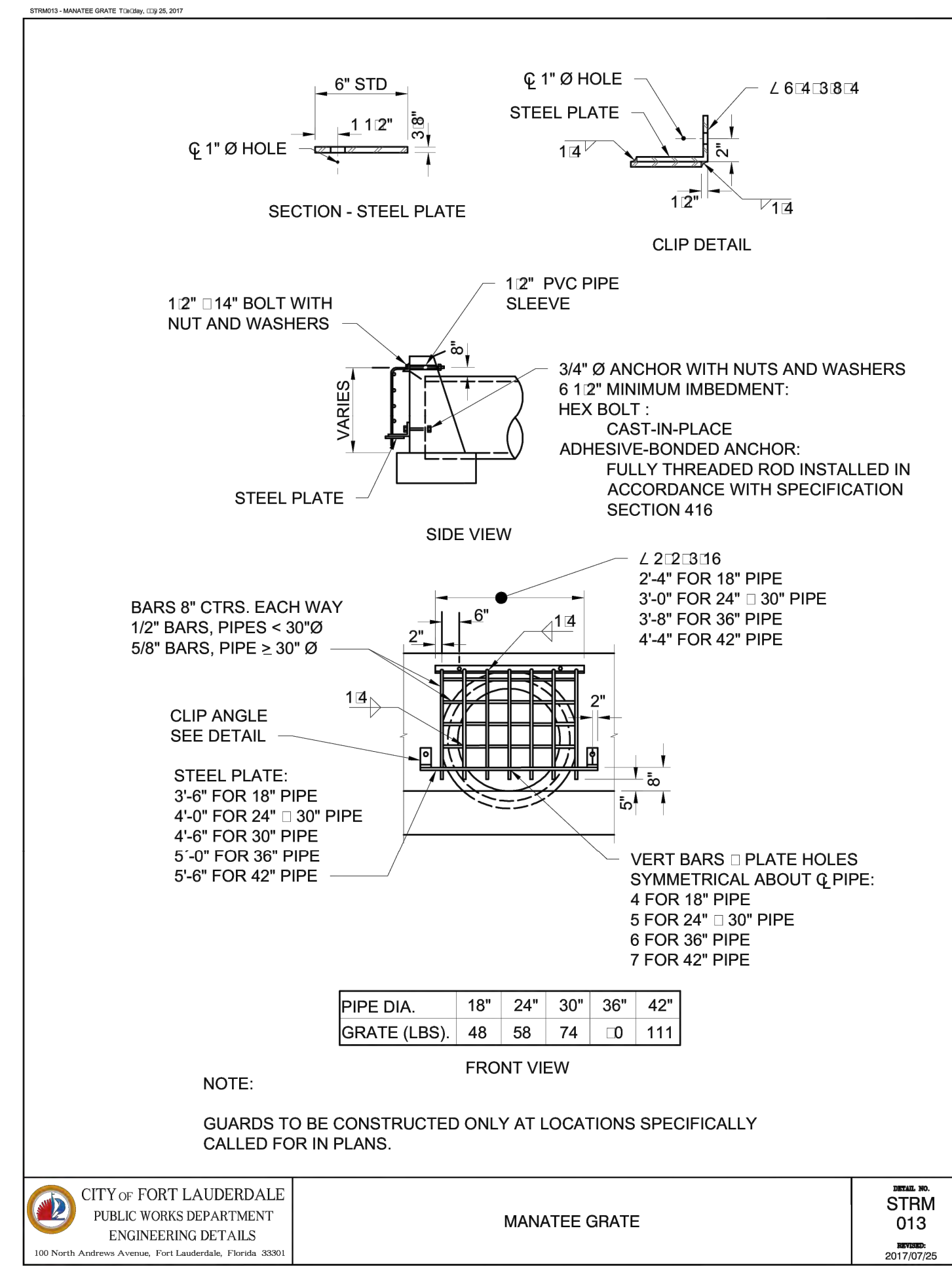
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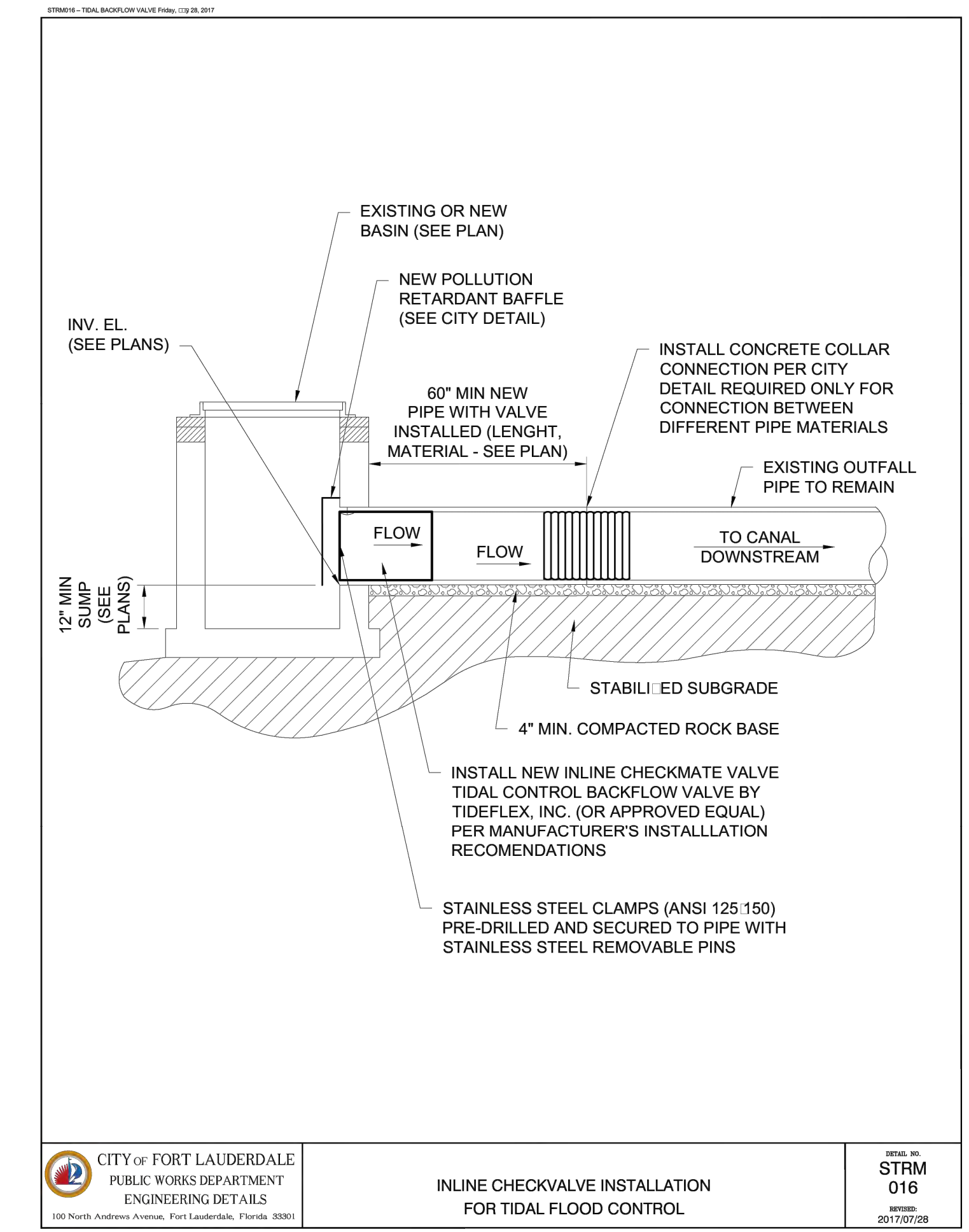
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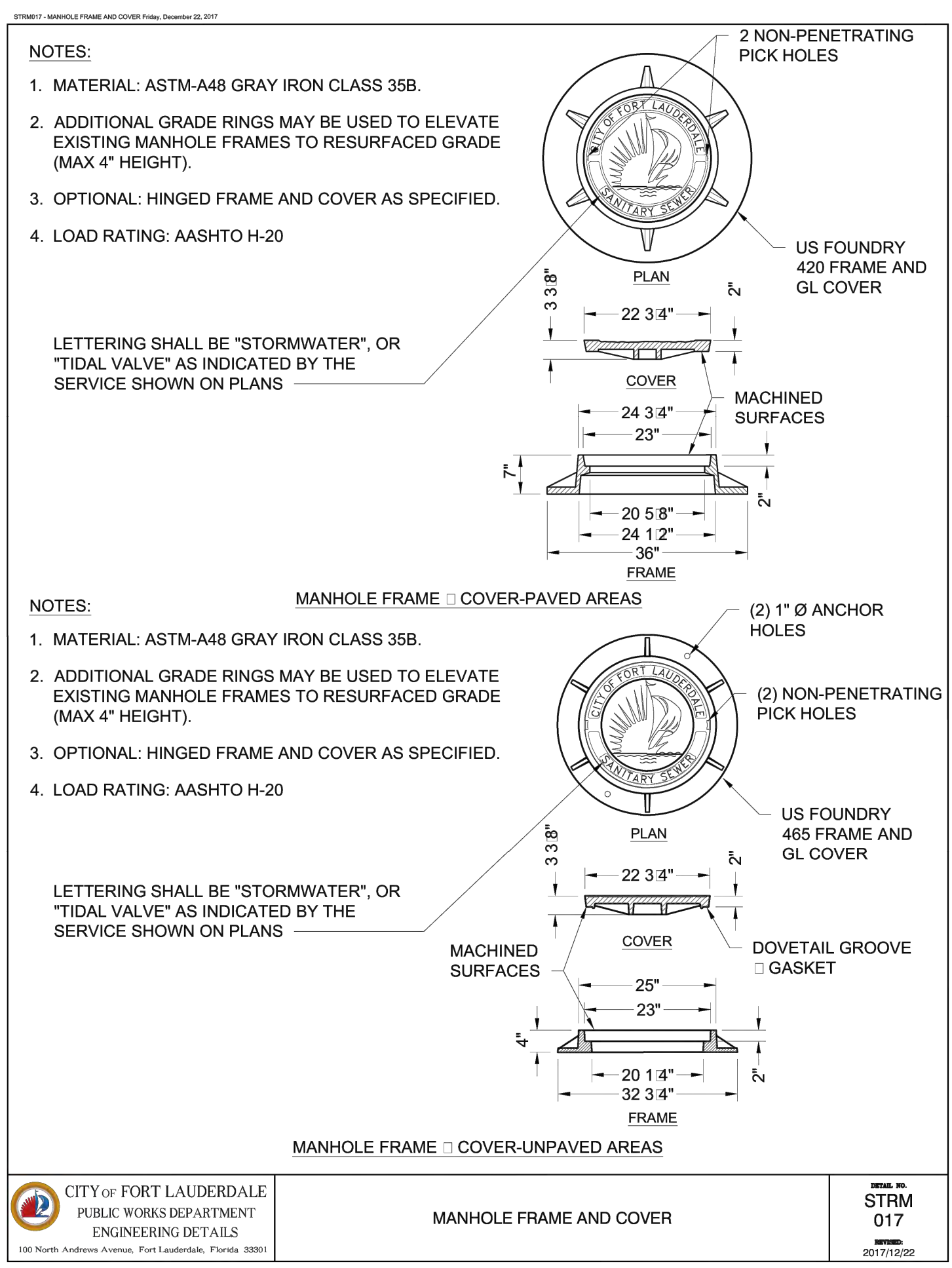
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 SHEET NO. STRM 009
 DATE: 2017/07/14



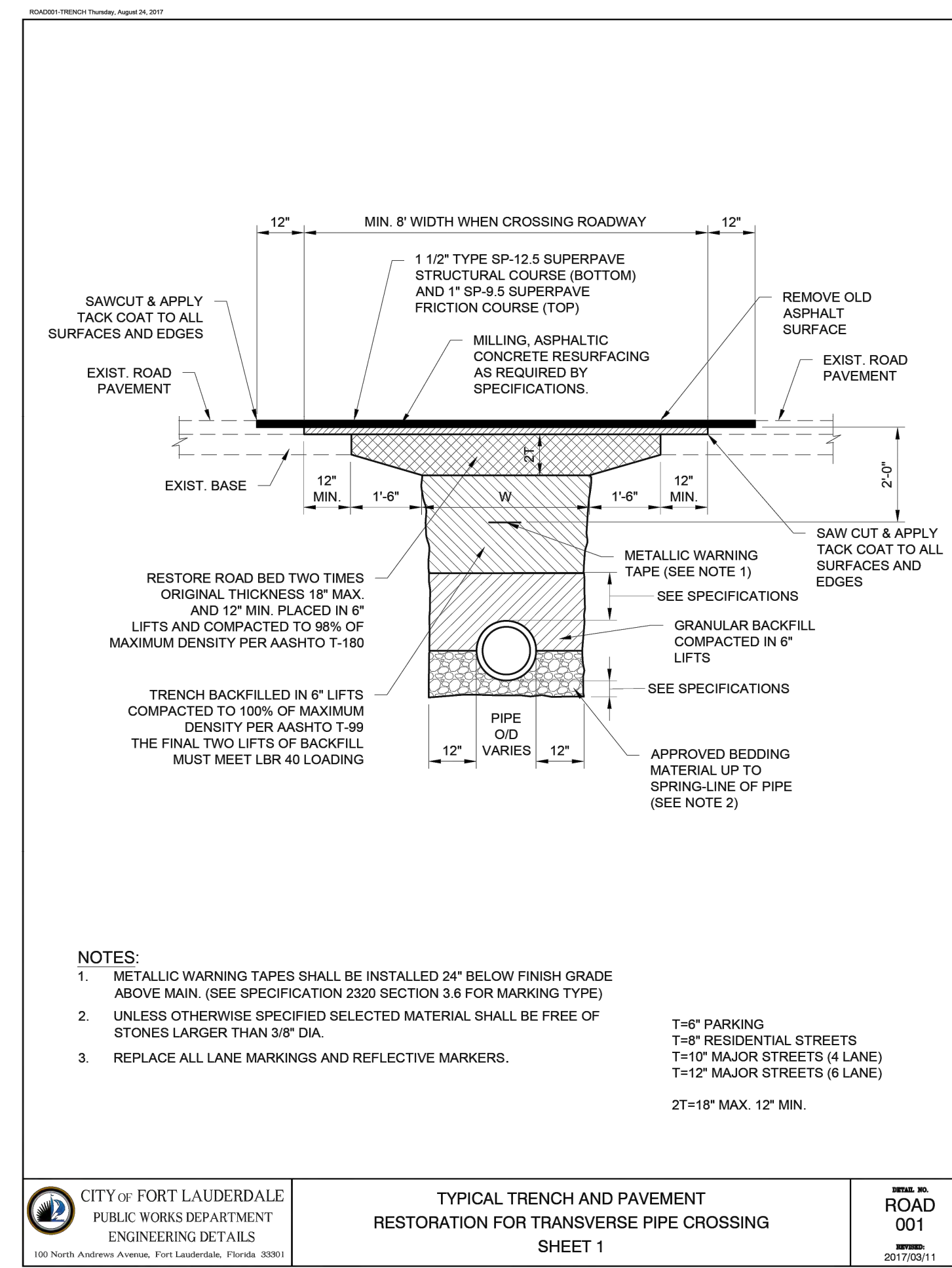
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MANATEE GRATE
 SHEET NO. STRM 013
 DATE: 2017/07/25



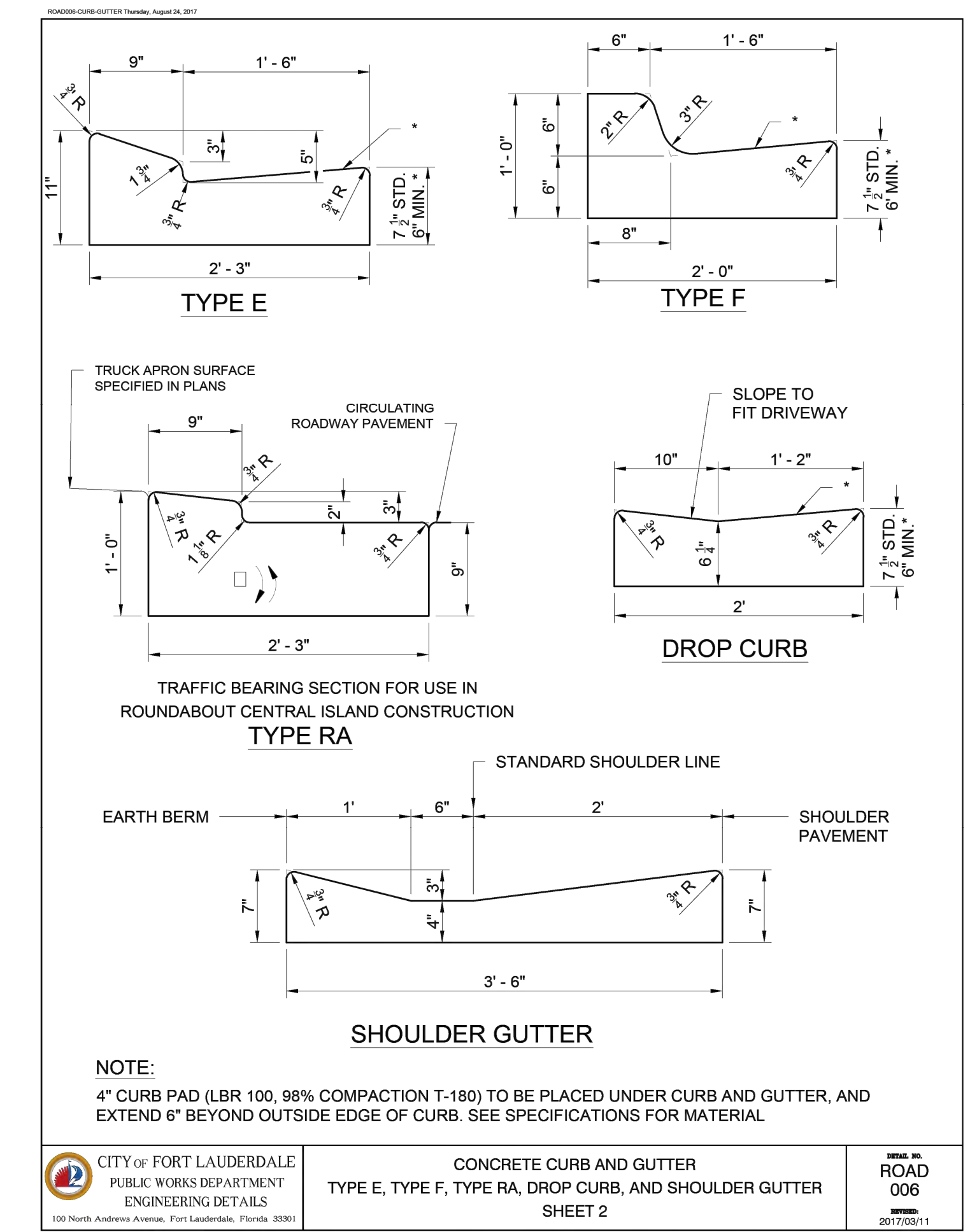
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 SHEET NO. STRM 016
 DATE: 2017/07/28



CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS
MANHOLE FRAME AND COVER
 SHEET NO. STRM 017
 DATE: 2017/12/22



CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS
TYPICAL TRENCH AND PAVEMENT RESTORATION FOR TRANSVERSE PIPE CROSSING
 SHEET 1
 SHEET NO. ROAD 001
 DATE: 2017/03/11



CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS
CONCRETE CURB AND GUTTER TYPE E, TYPE F, TYPE RA, DROP CURB, AND SHOULDER GUTTER
 SHEET 2
 SHEET NO. ROAD 006
 DATE: 2017/03/11

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ENGINEER: CARLOS FLORIAN, P.E.
 REG. NO: 80500
 DATE: 9/30/2025

DRAWN BY: DM
 DATE: 9/30/2025
 DESIGNED BY: CC
 CHECKED BY: CF
 FIELD BOOK:

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 100 North Andrews Avenue, Fort Lauderdale, Florida 33301
 TEL: 954-716-8868
 FAX:

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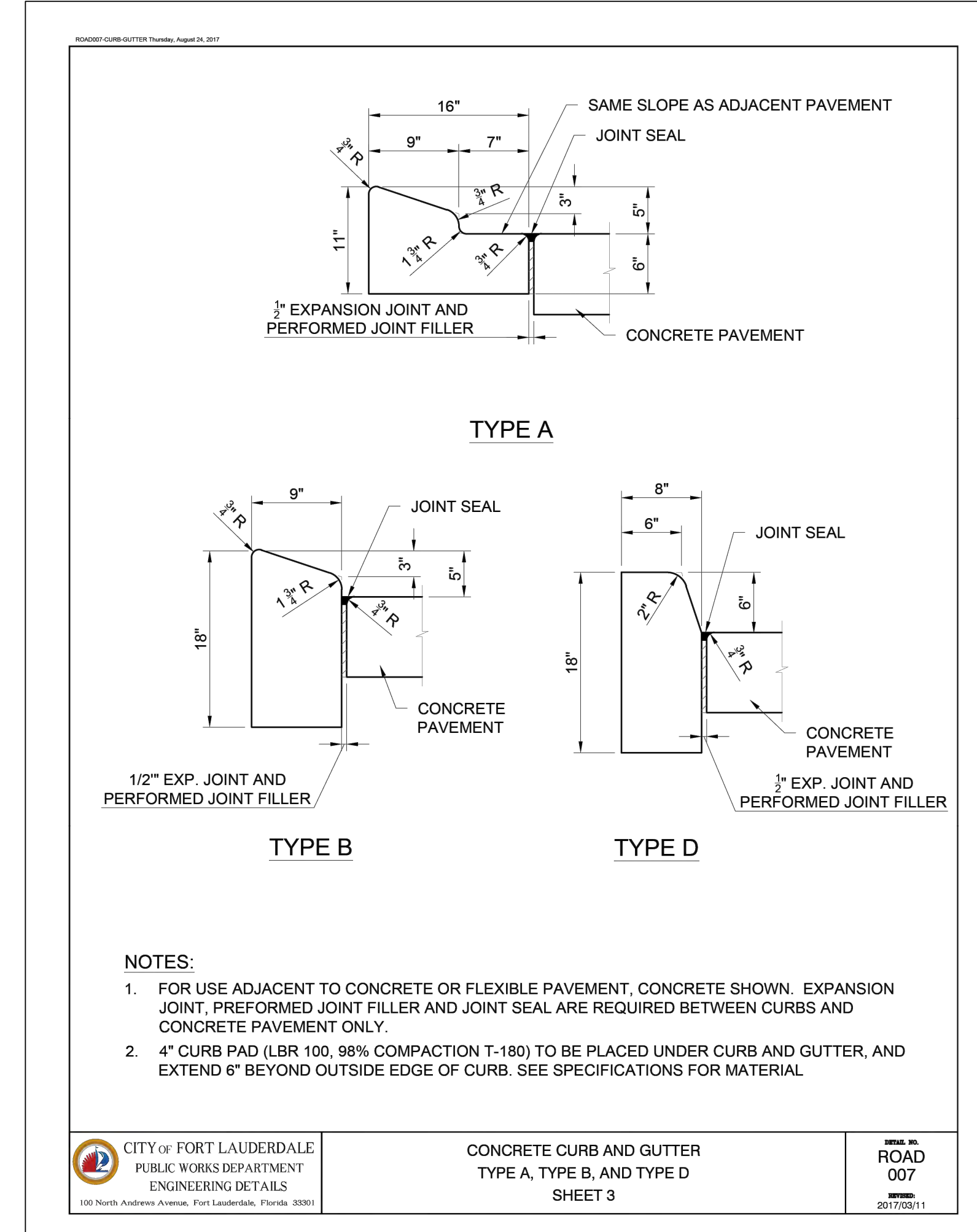
PROJECT # 13008
 SEBASTIAN AND SEVILLE
 SEAWALL REPLACEMENT
 PAVING, GRADING AND DRAINAGE DETAILS
 SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO. 012
 TOTAL: 18
 CAD FILE: 12549-005-DETL
 DRAWING FILE NO. 12549

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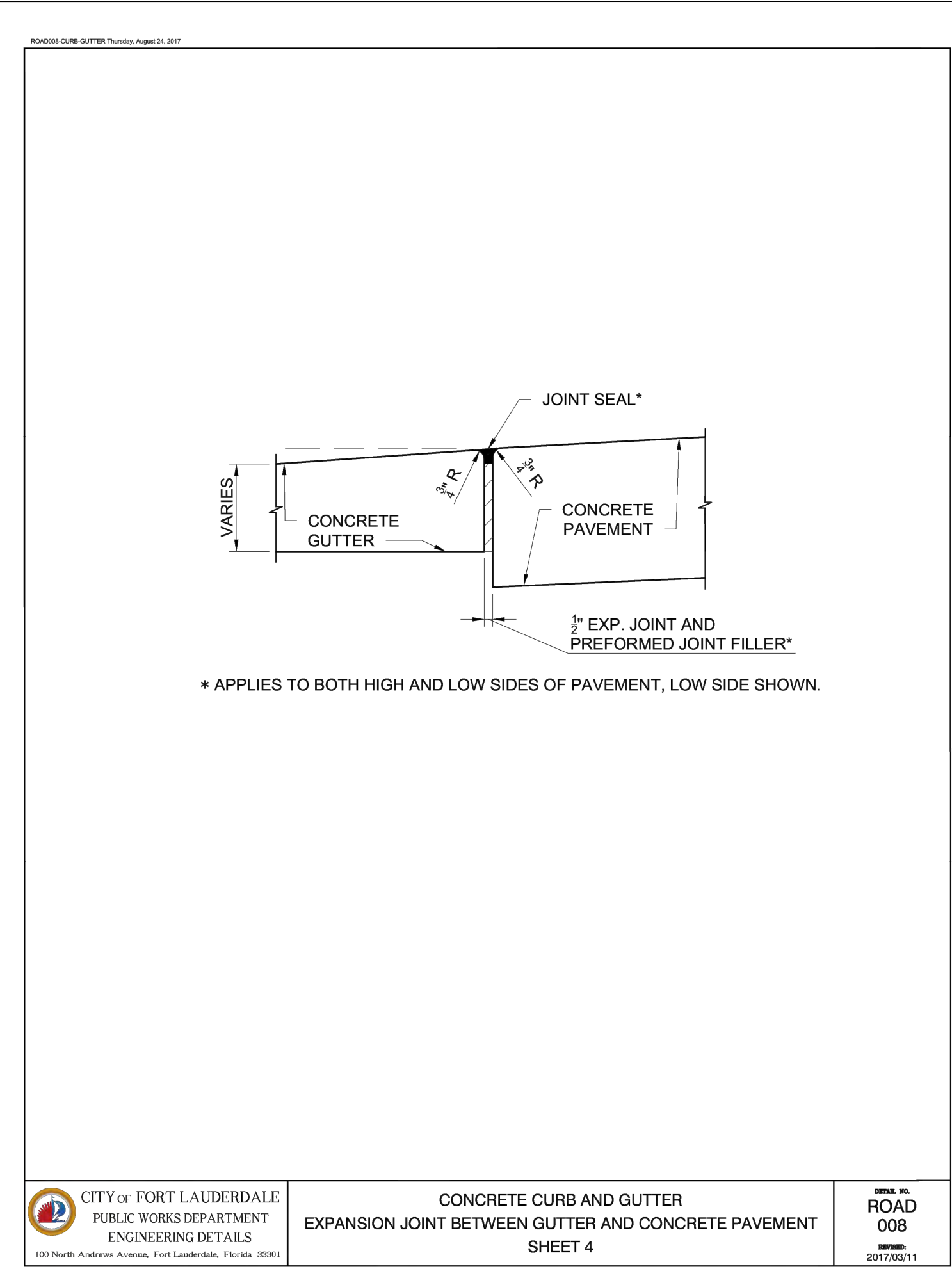
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ENGINEERING DETAILS
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CONCRETE CURB AND GUTTER
TYPE A, TYPE B, AND TYPE D
SHEET 3

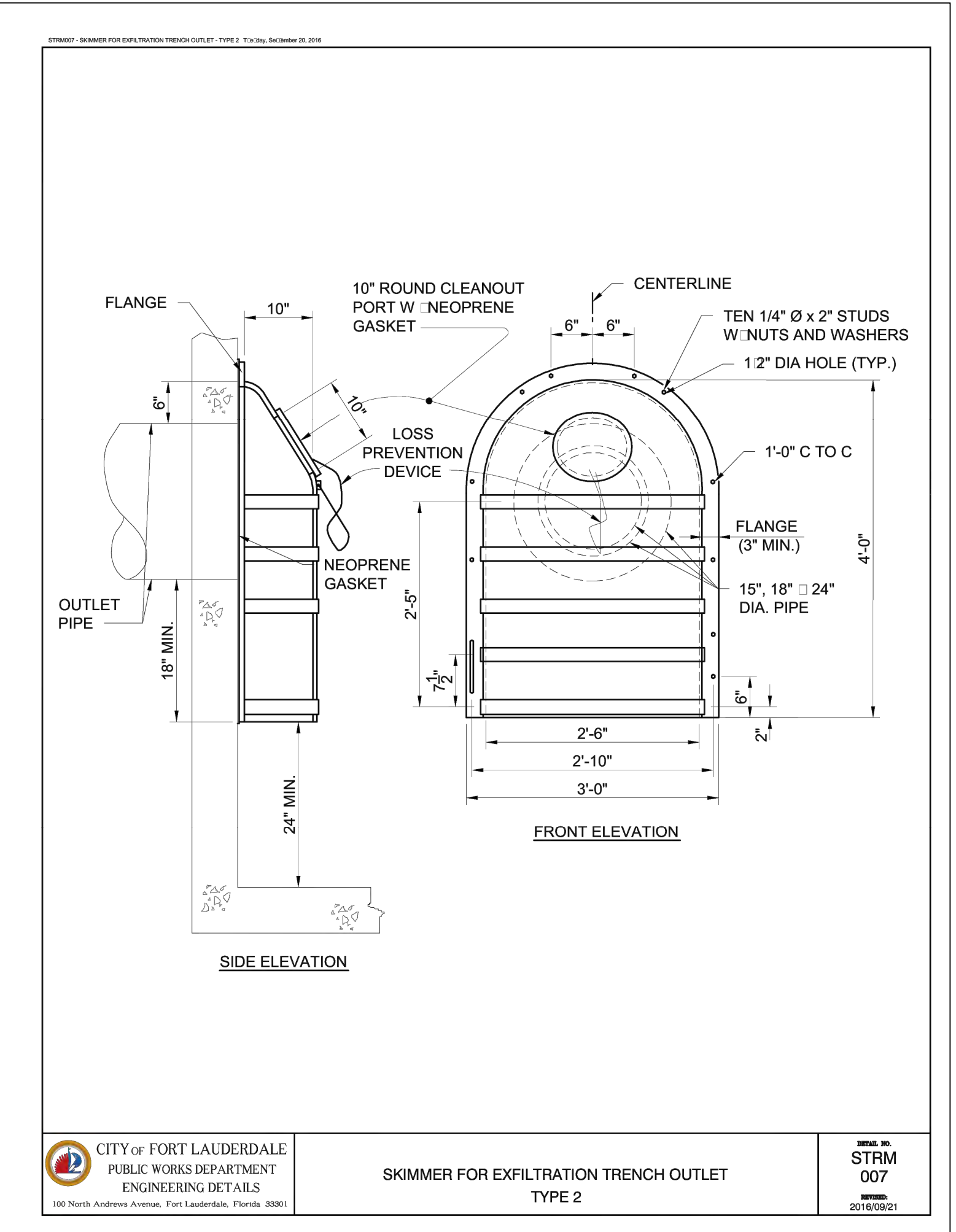
ROAD NO.
007
DATE
2016/09/21



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CONCRETE CURB AND GUTTER
EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT
SHEET 4

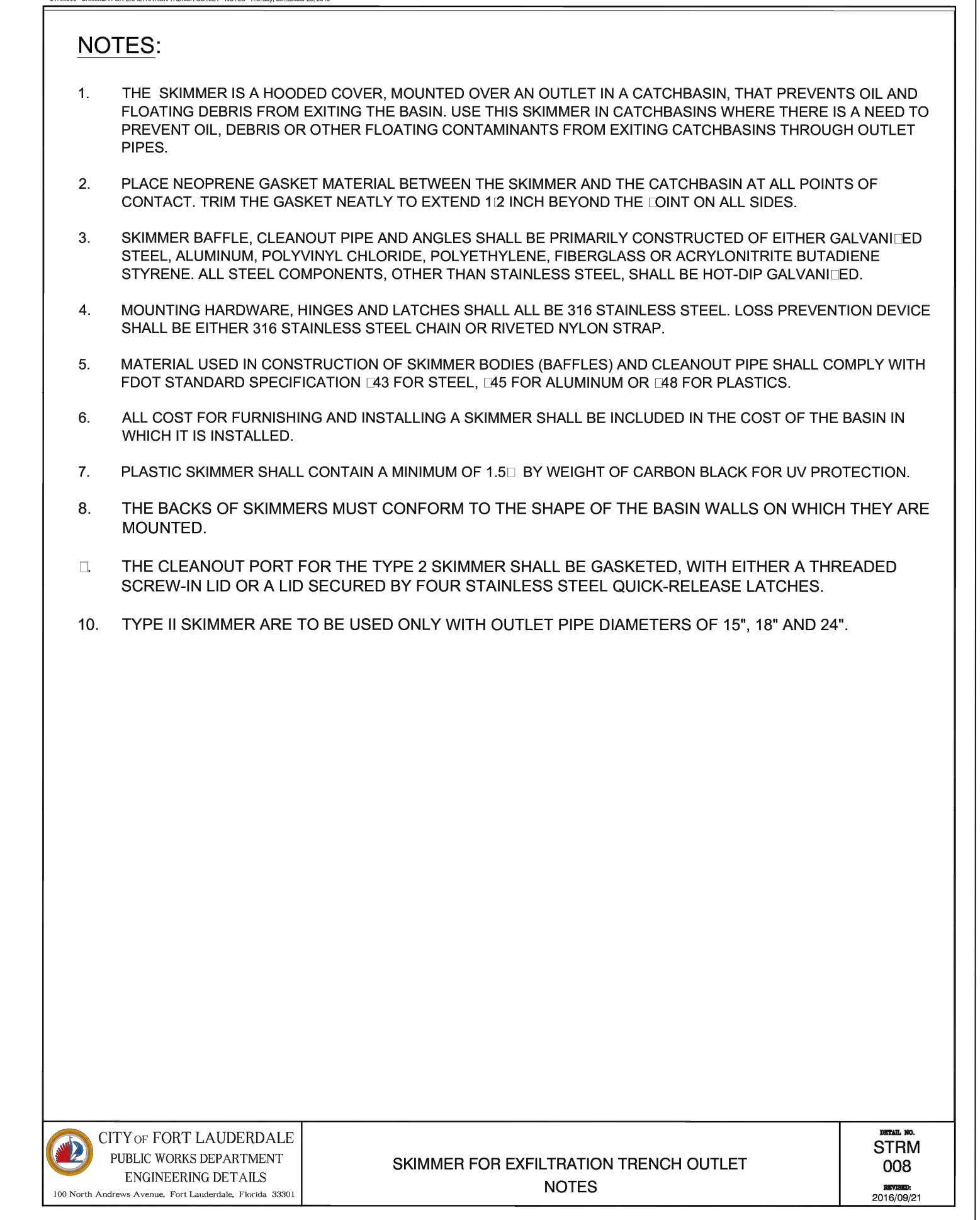
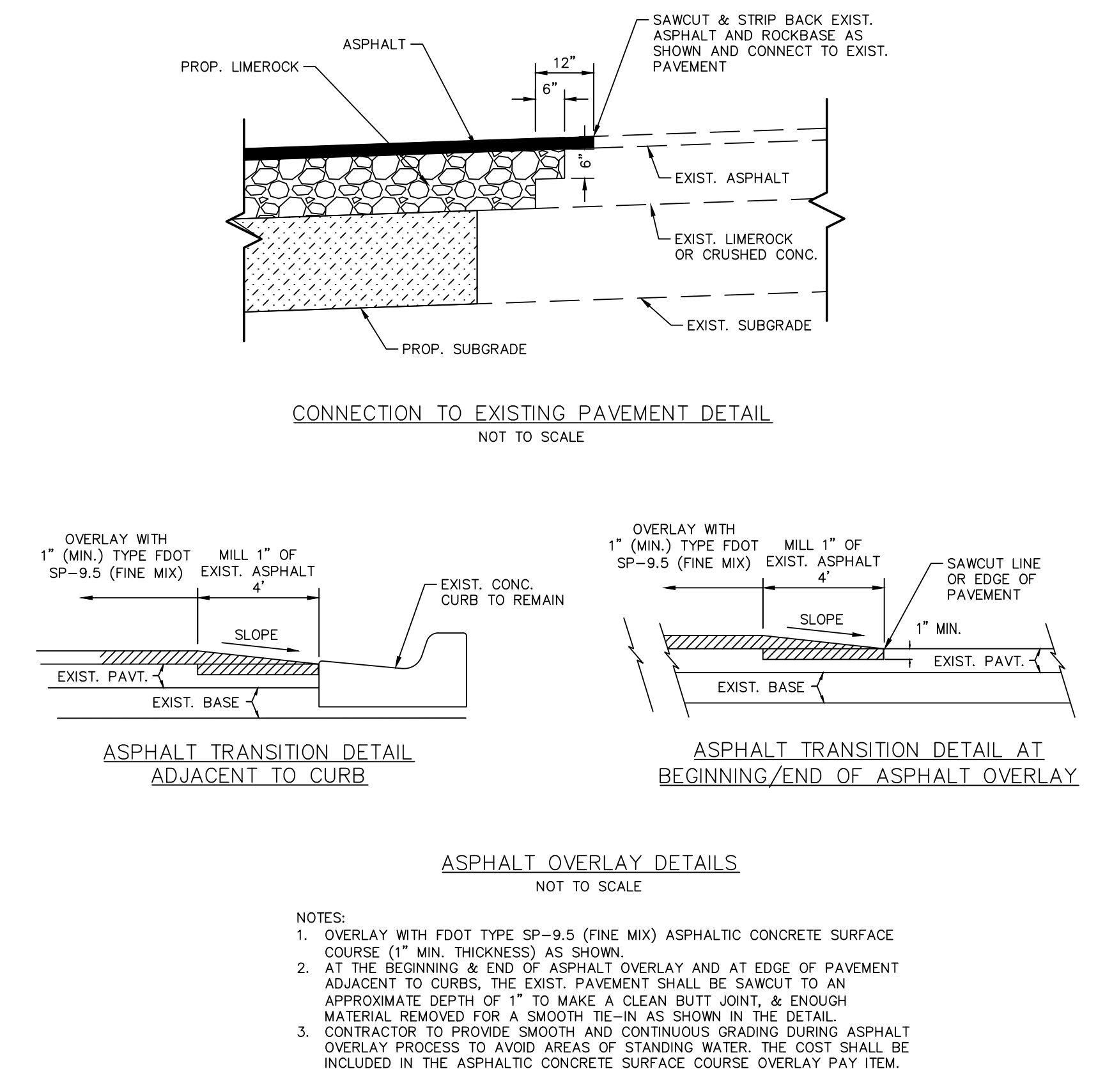
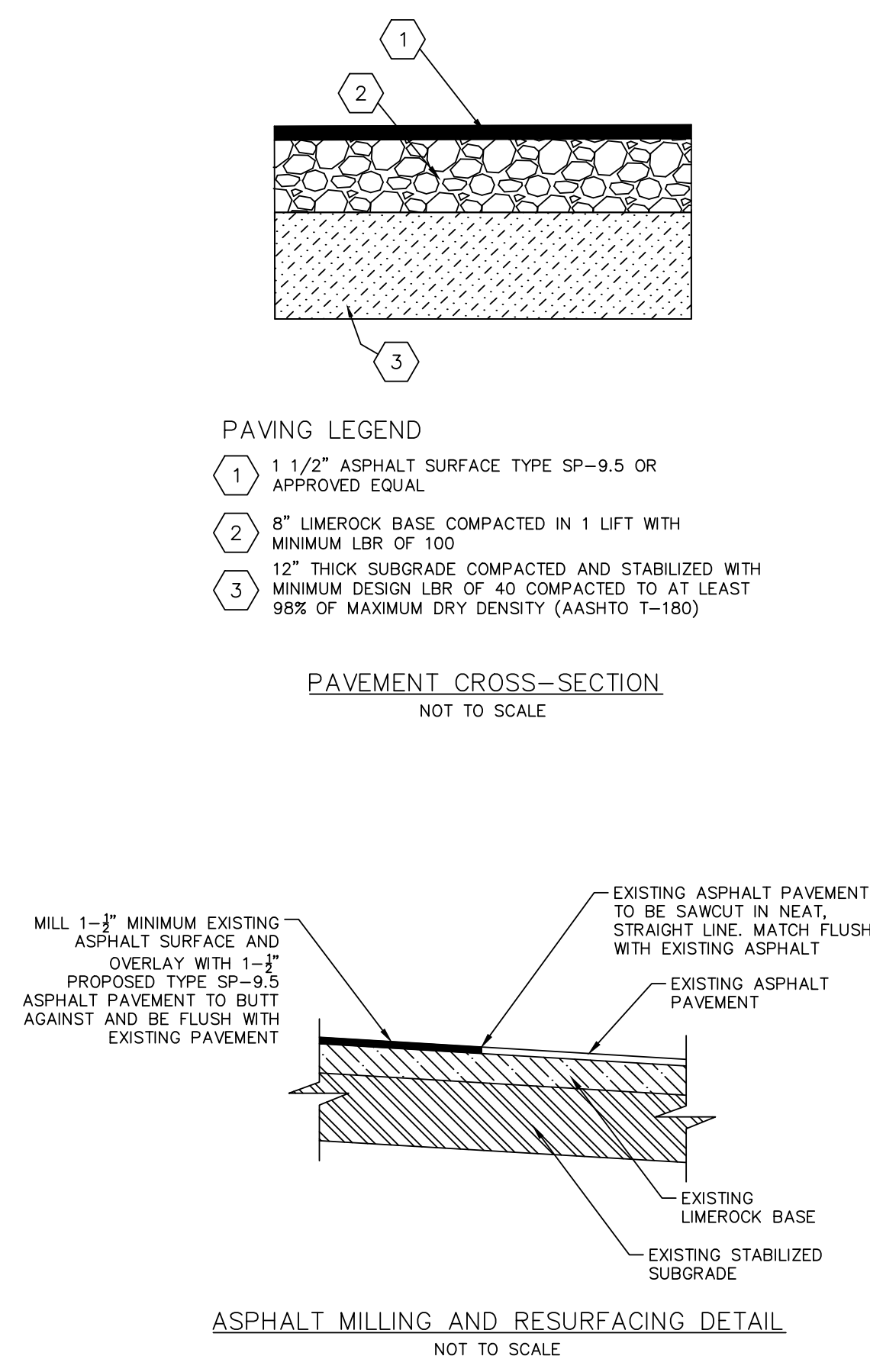
ROAD NO.
008
DATE
2016/09/21



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

SKIMMER FOR EXFILTRATION TRENCH OUTLET
TYPE 2

ROAD NO.
STRM
007
DATE
2016/09/21



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

SKIMMER FOR EXFILTRATION TRENCH OUTLET
NOTES

ROAD NO.
STRM
008
DATE
2016/09/21

Sunshine811

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ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

BID SET NOT FOR CONSTRUCTION

ENGINEER: CARLOS FLORIAN, P.E.
REC. No: 80500
DATE: 9/30/2025

DATE: 9/30/2025
DRAWN BY: DM
DESIGNED BY: CC
CHECKED BY: CF
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

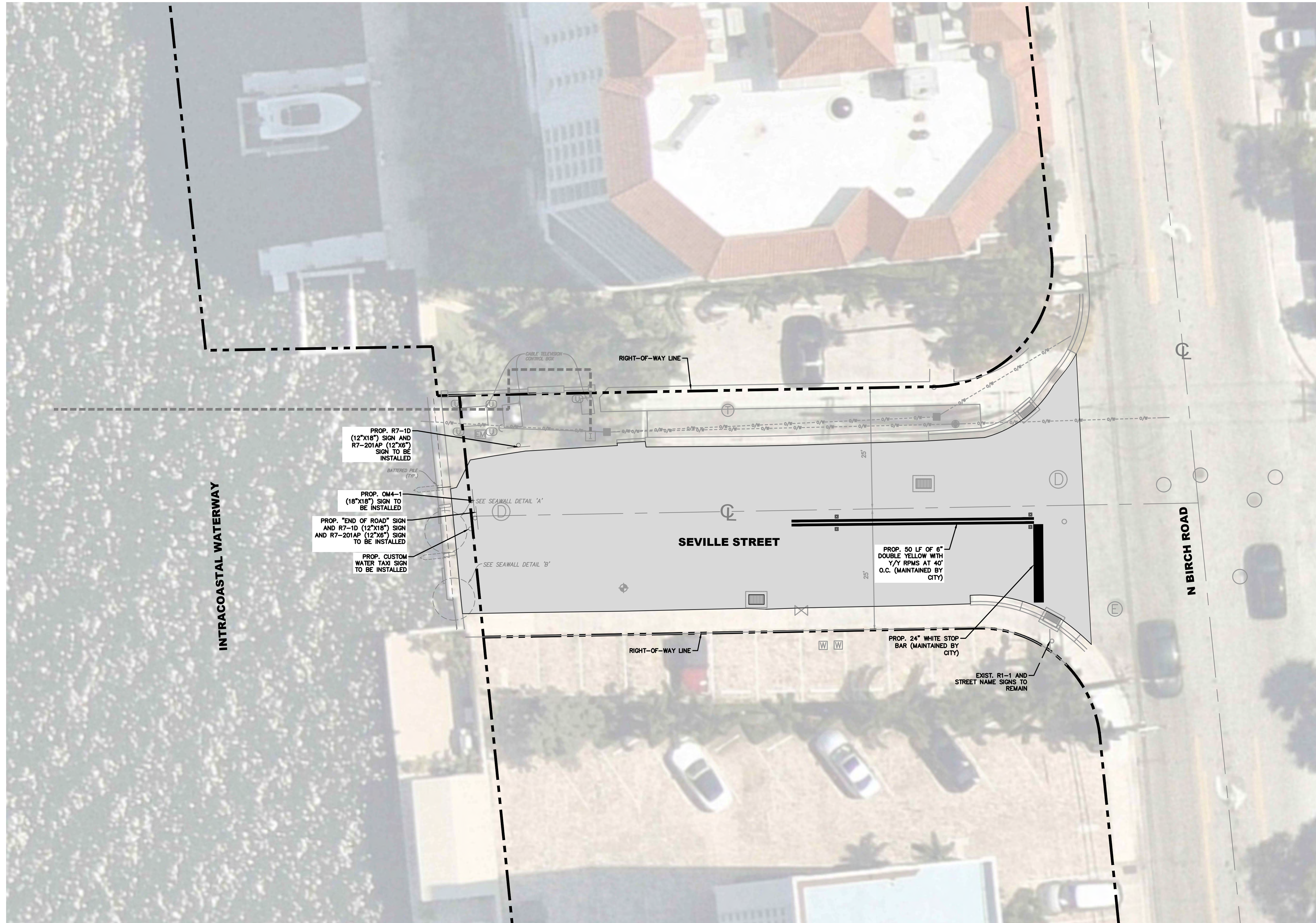
NO.	DATE	BY	DESCRIPTION

PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
PAVING, GRADING AND DRAINAGE DETAILS
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO.
013

TOTAL: 18
CAD FILE:
12549-005-DETL
DRAWING FILE NO.
12549

K:\FTL_CIVIL\043_JOBS\043184256_RFO_12637-421 TO 6_SEAWALL_REPLACEMENT\CAD\PLANSHEETS\CIVIL\12549-011-SIGN.DWG



GRAPHIC SCALE IN FEET
0 5 10 20

LEGEND

---	LIMITS OF RIGHT-OF-WAY
□	PROPOSED RPM
○	PROPOSED SIGN

ENGINEER:
CARLOS FLORIAN, P.E.
REC. No: 80500
DATE: 9/30/2025

DATE:
9/30/2025

SCALE:

DESIGNED BY:
CC

CHECKED BY:
CF

FIELD BOOK:

TEL: 954-716-8868
PAGE

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		DESCRIPTION
NO.	DATE	BY (R/C/D)

BID SET NOT FOR CONSTRUCTION

PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
SIGNING AND MARKING PLAN
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO.
014

TOTAL: 18

CAD FILE:
12549-011-SIGN

DRAWING FILE NO.
12549

THE FOLLOWING ITEMS ARE NOT REVIEWED OR ACCEPTED BY BROWARD COUNTY:

- BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S REVIEW DOES NOT INCLUDE A REVIEW AND ACCEPTANCE OF THE PROJECT'S DESIGN OR OPERATION. THESE ITEMS ARE TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER.
- BROWARD COUNTY TRAFFIC ENGINEERING DIVISION DOES NOT REVIEW AND APPROVE, OR INSPECT AND ACCEPT THE FOLLOWING ITEMS FOR MAINTENANCE: PAVEMENT MARKINGS ON OR ADJACENT TO PAPER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAPER BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNS, UN-SURFACED CROSSWALKS AND RELATED MARKINGS AND SIGNS, UN-SURFACED MED-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNS, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNS, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLINDER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNS, ON-STREET PARKING AND RELATED MARKINGS AND SIGNS, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNS, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNS, OFF-SITE PAVEMENT MARKINGS AND SIGNS IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.
- THE CITY ENGINEER IS RESPONSIBLE FOR THE REVIEW AND APPROVAL OF THE DESIGN AND OPERATION OF THE PROJECT, AND FOR THE INSPECTION AND ACCEPTANCE OF THE FOLLOWING ITEMS THAT WILL BE MAINTAINED BY THE CITY: PAVEMENT MARKINGS ON OR ADJACENT TO PAPER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAPER BRICKS, PAVEMENT MARKINGS ON OR ADJACENT TO PAINTED ASPHALT, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNS, UN-SURFACED MED-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNS, UN-SURFACED CROSSWALKS AND RELATED MARKINGS AND SIGNS, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNS, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLINDER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNS, ON-STREET PARKING AND RELATED MARKINGS AND SIGNS, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNS, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNS, OFF-SITE PAVEMENT MARKINGS AND SIGNS IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK AND ASPHALT WORK.
- ALL TRAFFIC CONTROL DEVICES MAINTAINED BY BROWARD COUNTY, THAT ARE REMOVED OR DAMAGED BY CONSTRUCTION, SHALL BE REPLACED BY THE CONTRACTOR USING CURRENT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS.

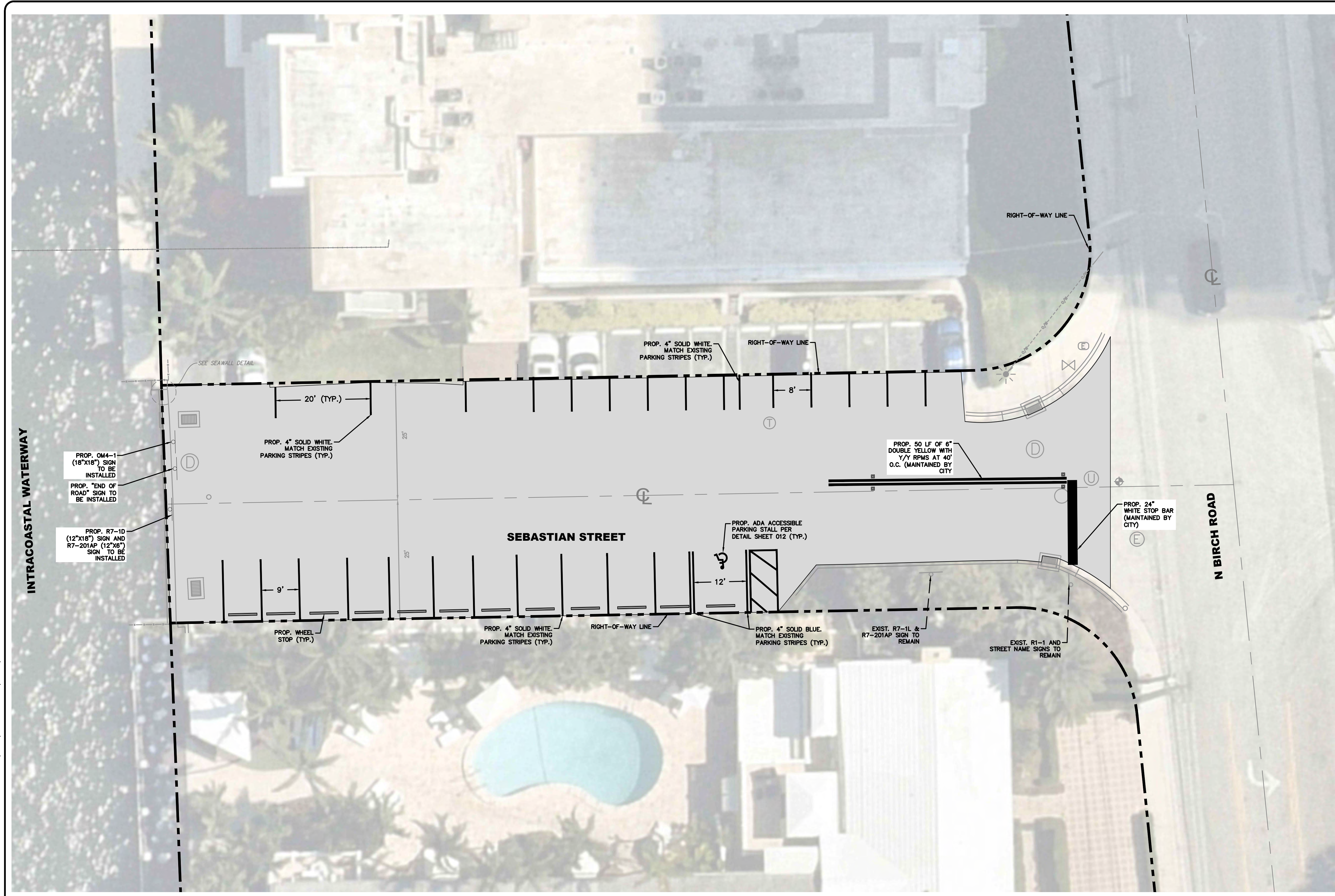
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BCTED REF NO.: 250324060

K:\FTL_CIVIL\043_JOBS\184256_RFO_12637-421_TO_6_SEAWALL_REPLACEMENT\CAD\PLANSHEETS\CIVIL\12549-011-SIGN.DWG



GRAPHIC SCALE IN FEET
0 5 10 20

LEGEND
 - - - - - LIMITS OF RIGHT-OF-WAY
 [Symbol] PROPOSED RPM
 [Symbol] PROPOSED SIGN

ENGINEER: CARLOS FLORIAN, P.E.
 REC. No: 80500
 DATE: 9/30/2025
 TEL: 954-716-8868
 FAX:

DATE: 9/30/2025
 DRAWN BY: DM
 DESIGNED BY: CC
 CHECKED BY: CF
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING & ARCHITECTURE
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS	
NO.	DESCRIPTION

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BCTED REF NO.: 250324060

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BID SET NOT FOR CONSTRUCTION

PROJECT # 13008
 SEBASTIAN AND SEVILLE
 SEAWALL REPLACEMENT
 SIGNING AND MARKING PLAN
 SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO. 015
 TOTAL: 18
 CAD FILE: 12549-011-SIGN
 DRAWING FILE NO. 12549

PAVEMENT MARKINGS AND SIGNS DETAILS

REVISIONS

DATE	DESCRIPTION
11-24-2020	UPDATED NOTES
04-14-2021	UPDATED NOTES
05-06-2022	UPDATED NOTES

LEGEND

YELLOW/YELLOW RPM DETAILS

EDGE LINE DETAILS

TYPE IV SEPARATOR DETAILS

TYPE III SEPARATOR DETAILS

TYPE II SEPARATOR DETAILS

TYPE I SEPARATOR DETAILS

PAINTED MEDIAN DETAILS

STREET NAME BLADE DETAILS

STOP SIGN NOTE

NOTES

SPECIAL EMPHASIS CROSSWALK MARKINGS NOTES

DRIFTLANE LENGTH TABLE

ORIENTATIONAL ARROWS REQUIRED TABLE

PAVEMENT MARKINGS AND SIGNS DETAILS

DESIGN BY: CARMELO CARATOZZO, P.E.
SCALE: NTS
CHECKED BY: CARMELO CARATOZZO, P.E.

SHEET NO. 1 OF 1

FOR SIGN ASSEMBLIES WITH MAXIMUM 8.75 SQUARE FOOT PANEL AREA

FOR SIGN ASSEMBLIES WITH GREATER THAN 8.75 SQUARE FOOT PANEL AREA WITH SUPPLEMENTAL SIGN

TYPICAL DETAILS

DETAIL "A"

DETAIL "B"

REVISIONS

DATE	DESCRIPTION
02-28-2020	ADDED ISOMETRIC VIEW
02-05-2021	UPDATED POST BASE HEIGHT
06-22-2023	UPDATED SIGN POST NOTES

PAVEMENT MARKINGS AND SIGNS DETAILS

DESIGN BY: CARMELO CARATOZZO, P.E.
SCALE: NTS
CHECKED BY: CARMELO CARATOZZO, P.E.

STOP SIGN AND STREET IDENTIFICATION ASSEMBLY TYPICAL DETAILS

SHEET NO. 1 OF 1

GUIDE TO USE THIS STANDARD:

- Calculate the Total Panel Area and the centroid 'C' for an individual sign or a sign cluster.
- Determine the height 'H' from the groundline for the individual sign or the cluster.
- Consult the Post Size Table and find the intersection point.
- Design the post and the foundation according to the required Post Size and Assembly Details.

Post Size Table

'H' Sign Assembly Height (ft) (measure from ground)	Total Panel Area (sq ft)
3	8
4	8.5
5	9
6	9.5
7	10
8	10.5
9	11
10	11.5
11	12
12	12.5
13	13
14	13.5
15	14
16	14.5
17	15
18	15.5
19	16
20	16.5

Sign Post with 3" x 7 ga. Square Anchor

Sign Post with Triangular Slip Base

GROUND SIGN ASSEMBLY DETAILS

REVISIONS

DATE	DESCRIPTION
03-21-2017	UPDATED POST SIZE
11-24-2020	ADDED POST SIZE NOTE
02-05-2021	UPDATED POST BASE HEIGHT

PAVEMENT MARKINGS AND SIGNS DETAILS

DESIGN BY: YVES DANJOU, P.E.
SCALE: NTS
CHECKED BY: ANDREW SEBO, P.E., PTQE

SHEET NO. 1 OF 1

BCTED REF NO.: 250324060

ENGINEER: CARLOS FLORIAN, P.E.
REC. NO.: B05000
DATE: 9/30/2025

DRAWN BY: DM
DESIGNED BY: CC
CHECKED BY: CF

DATE: 9/30/2025
SCALE:
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	DESCRIPTION

PROJECT # 13008
SEBASTIAN AND SEVILLE SEAWALL REPLACEMENT SIGNING AND MARKING DETAILS
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO. 016

TOTAL: 18
CAD FILE: 12549-005-DETL
DRAWING FILE NO.: 12549

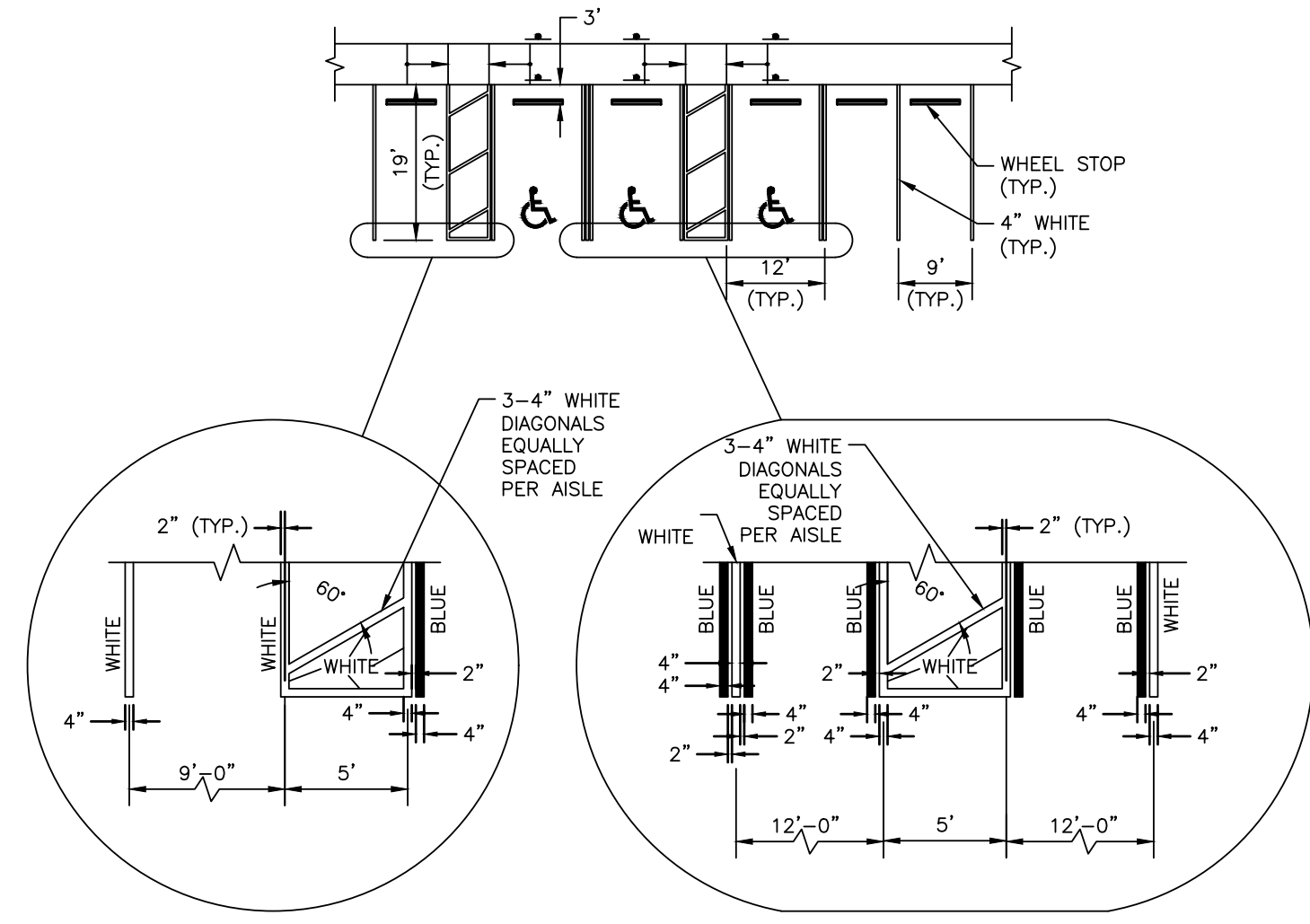
Sunshine811

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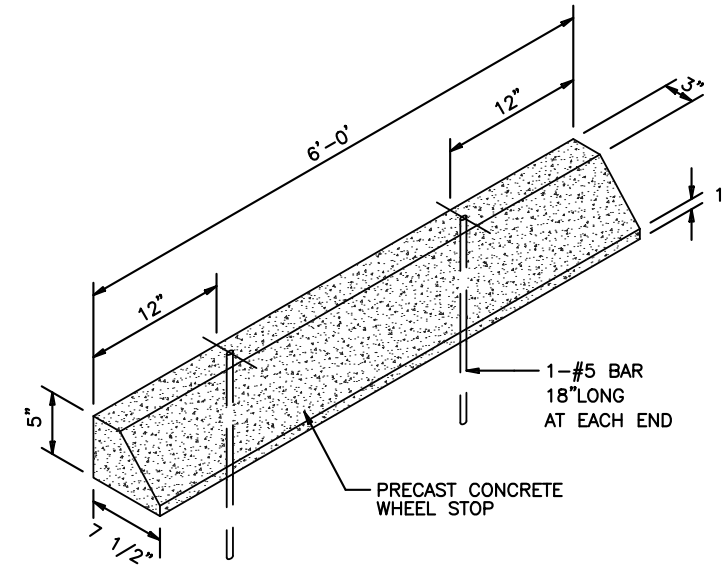
ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

BID SET NOT FOR CONSTRUCTION

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ACCESSIBLE PARKING PAVEMENT MARKING
N.T.S.



NOTES:
1. CONCRETE STRENGTH SHALL BE 3,000 P.S.I.

WHEELSTOP DETAIL
SCALE: N.T.S.

BCTED REF NO.: 250324060



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BID SET NOT FOR CONSTRUCTION

PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
SIGNING AND MARKING DETAILS
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO.	
017	
TOTAL:	18
CAD FILE:	12549-005-DETL
DRAWING FILE NO.	12549

REVISIONS	
NO.	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY:	DM	DESIGNED BY:	CC	CHECKED BY:	CF	FIELD BOOK:
DATE:	9/30/2025	SCALE:				

ENGINEER:
CARLOS FLORIAN, P.E.
REG. No: 80500
DATE: 9/30/2025
TEL: 954-716-8868
PAGE

GENERAL NOTES

I. GENERAL INFORMATION

A. GENERAL

- CONSTRUCTION SHALL COMPLY WITH REQUIREMENTS OF THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, TRIBAL, (B.I.A. AND/OR S.O.F.), STATE AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.
- CONTRACTOR SHALL SUBMIT WRITTEN REQUEST FOR CLARIFICATION TO THE ENGINEER. THE CONTRACTOR SHALL RESTORE ALL DAMAGED OR DISTURBED AREAS TO MEET OR EXCEED ORIGINAL SITE CONDITIONS TO THE OWNER'S SATISFACTION.
- ALL WORK FOR THIS PROJECT SHALL BE COMPLETED WITHIN AND FROM EXISTING RIGHT OF WAY OR FROM A BARGE PROVIDED BY THE CONTRACTOR.
- IN THESE NOTES REFERS TO THE BROWARD COUNTY, CITY IN THESE NOTES REFERS TO THE CITY OF FORT LAUDERDALE, STATE IN THESE NOTES REFERS TO THE STATE OF FLORIDA.
- THE FDOT INDICES REFERRED TO IN THE DRAWINGS AND NOTES REFERS TO FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND FDOT DESIGN STANDARDS LATEST EDITION.
- ALL WORK AND MATERIALS SHALL CONFORM TO THE LATEST STANDARDS, CODES, REGULATIONS AND SPECIFICATIONS OF THE CITY, COUNTY, STATE, AND FEDERAL CODES WHERE APPLICABLE.
- THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH FEDERAL, STATE, COUNTY, AND CITY LAWS, CODES, ORDINANCES AND REGULATIONS.
- IN THE EVENT OF A CONFLICT BETWEEN THE GENERAL NOTES AND CONSTRUCTION SPECIFICATIONS IN THESE PLANS AND THE CONTRACT DOCUMENTS THE CONTRACTOR SHALL SUBMIT WRITTEN REQUEST FOR CLARIFICATION TO THE ENGINEER.
- ALL HANDICAP ACCESSIBLE ACCESS TO CONFORM WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT AND LOCAL, STATE, AND FEDERAL CODES, LATEST EDITIONS.
- THE CONTRACTOR IS REQUIRED TO OBTAIN ALL APPLICABLE CONSTRUCTION PERMITS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND LICENSES, PAY ALL APPLICABLE CHARGES, TAXES, ROYALTIES & FEES, AND GIVE ALL NOTICES NECESSARY TO COMPLETE THIS PROJECT.
- IF ABANDONED GAS, WATER, AND SEWER SERVICE LATERALS ARE ENCOUNTERED DURING EXCAVATION, THE SECTION IN THE EXCAVATED ENVELOPE WILL BE REMOVED AND THE STUB ON THE SIDE CONNECTED TO THE MAIN WILL BE CAPPED, PLUGGED OR OTHERWISE SEALED.
- CONTRACTOR TO MAINTAIN ACCESS TO BUSINESS AND RESIDENTIAL LOCATIONS BY NORMAL MEANS AND METHODS, I.E. TEMPORARY STEEL PLATES, LIMEROCK, ETC. ALL ASSOCIATED COST TO BE INCLUDED IN M.O.T. PAY ITEM.
- CONTRACTOR SHALL NOTIFY THE CITY OF FORT LAUDERDALE TRAFFIC ENGINEERING DIVISION 72 HOURS PRIOR TO WORK WITHIN COUNTY RIGHT-OF-WAY.
- CONTRACTOR SHALL NOTIFY THE FLORIDA DEPARTMENT OF TRANSPORTATION 72 HOURS PRIOR TO WORK WITHIN STATE RIGHT-OF-WAY.
- ITEMS IN CONFLICT WITH DESIGN SUCH AS EXISTING CURBS AND GUTTERS, SIDEWALKS, DRAINAGE STRUCTURES PAVEMENT AND BASE AND EXCESS EXCAVATIONS ARE TO BE REMOVED BY CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER AWAY FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE UNLESS THE ITEMS ARE TO BE REUSED ON THE PROJECT.
- EXCESS MATERIAL REMOVED BY THE CONTRACTOR WILL BE DISPOSED OF IN AREAS PROVIDED BY THE CONTRACTOR.
- THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS COURSE OF THE WORK. ALLOW UP TO 10 WORKING DAYS FOR ENGINEER TO REVIEW AND RETURN SHOP DRAWINGS. PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS AND DIMENSIONS THAT WILL BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE BASED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE SITE CONDITIONS OF THE PROJECT AND FULLY SATISFY THEMSELVES OF BOTH THE SURFACE AND SUBSURFACE CONDITIONS AND BASE THEIR PRICES ACCORDINGLY. A GEOTECHNICAL REPORT IS INCLUDED IN THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL PRESERVE ALL STREET SIGNS, BENCHES, TRAFFIC CONTROL SIGNS, LANDSCAPING, ETC. WHEN DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REINSTALL OR DELIVER SAID PUBLIC PROPERTY TO THE COUNTY OR CITY AS APPLICABLE.
- THE CONTRACTOR SHALL TAKE SPECIAL NOTE OF ANY SPECIAL EQUIPMENT SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, EITHER PUBLIC OR PRIVATE, DURING EXCAVATION OF SUBSOL MATERIAL OR DURING THE FILING OF ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- APPARENT ERRORS, DISCREPANCIES, OR OMISSIONS ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR REVISED IMMEDIATELY.
- THE AMOUNT OF EACH OF THE MATERIALS PROVIDED IS THE ESTIMATED AMOUNT REQUIRED TO COMPLETE THE JOB. THESE QUANTITIES ARE ESTIMATED ONLY AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLETE THE JOB IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ADDITIONAL MATERIALS BE REQUIRED THEY WILL BE PAID FOR AT THE CONTRACT UNIT PRICES AS DESCRIBED IN THE BID DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THAT REMAIN IN PLACE.
- THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZING EARTH, DRIVEWAYS, SIDEWALKS, ETC. WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OF AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOT ENCRUCH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL OR EQUIPMENT WITHOUT OBTAINING WRITTEN PERMISSION FROM THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE, REMOVAL OR MODIFICATION ACCIDENTALLY OR PURPOSELY CAUSED TO ANY IRRIGATION SYSTEMS, PRIVATE OR PUBLIC WITHIN THE PROJECT LIMITS. THE COSTS TO REPLACE, REMOVE OR MODIFY IRRIGATION PIPES, SPRINKLER HEADS OR OTHER PERTINENT APPURTENANCES SHALL BE CONSIDERED INCIDENTAL TO AND SHALL BE INCLUDED IN THE OTHER ITEMS OF RELATED WORK. ALL COSTS DUE TO DAMAGE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF AND MAKING THE REPAIRS OF EXISTING PAVEMENT, PIPES, CONDUITS, CURBS, CABLES, SOD, LANDSCAPE ITEMS, ETC. WHETHER OR NOT SHOWN ON THE PLANS AND DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS AND/OR THOSE OF THEIR SUBCONTRACTORS. CONTRACTOR SHALL REPORT ANY DAMAGE TO SIDEWALK, DRIVEWAY, ETC., PRIOR TO BEGINNING WORK IN ANY AREA.
- CONTRACTOR IS RESPONSIBLE TO REMOVE AND REINSTALL ALL BRICK OR PAVER DRIVEWAYS IMPACTED BY CONSTRUCTION. REPAIR OR REPLACE ALL ASPHALT, CONCRETE, OR STAMPED CONCRETE DRIVEWAYS IMPACTED BY CONSTRUCTION. ALL COSTS ASSOCIATED WITH THE OVERALL BID.
- THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS/HER WORK, EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL (DETERMINED BY THE ENGINEER OF RECORD) TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.
- CONTRACTOR SHALL ADJUST ALL EXISTING SURFACE FEATURES SUCH AS EXISTING FRAMES, GRATES, MANHOLE COVERS, UTILITY VALVE BOXES, MONITORING WELLS, ETC. TO MATCH FINISHED GRADES.
- ALL INSTALLATION OF WORK WITHIN BROWARD COUNTY JURISDICTION RIGHTS OF WAY SHALL BE IN CONFORMITY WITH THE BROWARD COUNTY HIGHWAY CONSTRUCTION & ENGINEERING DIVISION "MINIMUM STANDARDS."
- THE CITY OF FORT LAUDERDALE SHALL RECEIVE A COPY OF ALL REQUIRED DENSITY REPORTS, AS-BUILTS, AND SHOP DRAWINGS OF THE PROJECT.

B. CONSTRUCTION SAFETY

- ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.

C. TRENCH SAFETY ACT

- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA TRENCH SAFETY ACT.
- WHERE EXCAVATIONS ARE DEEPER IN EXCESS OF FIVE FEET (5) ARE REQUIRED, THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID:
 - A REFERENCE TO THE TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
 - WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONSTRUCTION WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
 - A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS. WHEN A BID IS NOT SUBMITTED, THE CONTRACTOR SHALL SUBMIT THE INFORMATION LISTED IN ITEM 2 TO THE ENGINEER PRIOR TO STARTING WORK.

D. SURVEY DATA

- ALL PROJECT ELEVATIONS ARE IN REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAV88).
- SURVEY INFORMATION FROM TOPOGRAPHIC SURVEY BY AVROM & ASSOCIATES, INC. DATE JULY 17TH, 2024 (07/17/2024).

E. GEOTECHNICAL INFORMATION

- GEOTECHNICAL INFORMATION FROM SUBSURFACE EXPLORATION BY TIERRA SOUTH FLORIDA, INC. DATED MARCH 26, 2021 (REVISED MAY 11, 2021) (REPORT NO. 711-21-099).
- CONTRACTOR TO REVIEW CORE BORING SHEETS TO ANTICIPATE POSSIBLE DRIVING CONDITIONS. BORINGS ENCOUNTERED HARD LIMESTONE AND COMPACTED FILL. HARD DRIVING CONDITIONS MAY EXIST AND SHOULD BE ANTICIPATED. IN ORDER TO AVOID EXCESSIVE DEPTH THE CONTRACTOR SHALL ANTICIPATE PREDRILLING, A FILE SECTION CAPABLE OF BEING DRIVEN THROUGH THE VARIOUS STRATA, AND/OR PILE DRIVING TIPS (TOE STRENGTHENING), PREDRILL HOLE DIAMETER TO BE APPROXIMATELY 2 INCHES LARGER THAN SHEET PILE WIDTH.
- CONTRACTOR TO COORDINATE WITH GEOTECHNICAL ENGINEER ON COMPACTION AND BACKFILL REQUIREMENTS

F. DUE DILIGENCE REPORT

- DUE DILIGENCE REPORT PREPARED BY KIMLEY-HORN AND ASSOCIATES, INC. DATED SEPTEMBER 19, 2024.

G. SOFT DIGS

- BLOOD HOUND UNDERGROUND UTILITY LOCATIONS DATED JUNE 4, 2025.

II. PRECONSTRUCTION RESPONSIBILITIES

A. GENERAL

- UPON RECEIPT OF THE "NOTICE OF AWARD" THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE THE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, AND THE ENGINEER OF RECORD, AND HOLD THE MANDATORY PRE-CONSTRUCTION CONFERENCE AFTER ISSUANCE OF THE CONTRACT'S "NOTICE OF AWARD" BUT BEFORE THE ACTUAL CONSTRUCTION DATE. CONTRACTOR MAY NOT BEGIN WORK BEFORE ACTUAL CONSTRUCTION DATE.
- THE CONTRACTOR SHALL OBTAIN A SUNSHINE CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.
- PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
- EXISTING UTILITY LOCATION SHOWN ON THESE PLANS ARE APPROXIMATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH IT FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.

- IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
- EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE UTILITY OWNER.
- THE CONTRACTOR SHALL COORDINATE WITH UTILITIES TO ARRANGE RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURE ETC. AS NECESSARY TO COMPLETE THE WORK.
- THE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR TWO (2) BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING THEIR UTILITIES SO THAT A CONVEYANCE REPRESENTATIVE CAN BE PRESENT.
- THE CONTRACTOR TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.

III. INSPECTIONS

A. GENERAL

- THE CONTRACTOR SHALL GIVE THE ENGINEER OF RECORD A MINIMUM OF TWO (2) BUSINESS DAYS ADVANCE NOTICE PRIOR TO BACKFILLING OR COMPLETING THE INSPECTION OF THE FOLLOWING ITEMS SO THE ENGINEER OF RECORD CAN PERFORM FIELD OBSERVATIONS OF THE FOLLOWING ITEMS. ADDITIONAL ITEMS MAY REQUIRE SPECIAL INSPECTIONS.
 - DRIVING FIRST PILE
 - REINFORCEMENT STEEL PLACEMENT
 - CAST-IN-PLACE CONCRETE
 - PLACEMENT OF ANY ASPHALT
 - SUBSTANTIAL COMPLETION
 - FINAL
- ALL INSPECTIONS WILL BE MADE BY THE COUNTY AND THE CITY OF FORT LAUDERDALE. THE ENGINEER OF RECORD WILL PROVIDE CONSTRUCTION OBSERVATION SERVICE.
- IF THE CONTRACTOR FAILS TO NOTIFY THE ENGINEER OF RECORD PRIOR TO COMPLETING THE ABOVE, THE ENGINEER RESERVES THE RIGHT NOT TO ISSUE ANY CERTIFICATIONS OR FINAL INSPECTIONS.
- CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER FOR INSPECTIONS DURING PILE INSTALLATIONS.

IV. SHOP DRAWINGS

A. GENERAL

- REVIEW OF SUBMITTALS BY THE ENGINEER IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AS PRESENTED BY THE CONTRACT DOCUMENTS. NO DETAILED CHECK OF QUANTITIES OR DIMENSIONS WILL BE MADE. ONLY THOSE SUBMITTALS REQUIRED TO BE SUBMITTED WILL BE REVIEWED. ALL OTHERS WILL BE RETURNED WITHOUT REVIEW.
- ALL SUBMITTALS SHALL BE ACCOMPANIED BY A LETTER OF TRANSMITTAL. CONTRACTOR'S SUBMITTAL NUMBER SHALL BE INDICATED ON TRANSMITTAL. DO NOT COMBINE DIFFERENT SUBMITTALS ON THE SAME TRANSMITTAL. SUBMIT SHOP DRAWINGS IN A TIMELY MANNER. CONSISTENT WITH THE ABOVE, AND PRIOR TO FABRICATION, INSTALLATION OR INVOLVING OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW AND RETURN SHOP DRAWINGS. NUMBER OF COPIES OF EACH SUBMITTED SHOP DRAWING SHALL BE SUFFICIENT FOR ENGINEER TO RETAIN 2 COPIES.
- ALL SUBMITTALS MUST BEAR EVIDENCE OF CONTRACTOR REVIEW (INCLUDING COMPANY STAMP AND DATED SIGNATURE OF REVIEWER) AND MUST BE APPROVED OR APPROVED AS NOTED BY HIM PRIOR TO SUBMITTING TO THE ENGINEER.
- CHANGES AND ADDITIONS MADE ON RESUBMITTALS MUST BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RESUBMITTALS MUST BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ENGINEER REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RESUBMITTAL.
- YEARS PRIOR TO PERFORMING WORK ON THE PROJECT, REVISIONS, PLACING OR FABRICATION DRAWINGS.
 - SUBMITTALS NOT MEETING THE ABOVE CRITERIA OR SUBMITTED AFTER FABRICATION WILL NOT BE REVIEWED.
 - SUBMITTALS:
 - AS A MINIMUM, THE FOLLOWING SHALL BE SUBMITTED, AS APPLICABLE, TO THE ENGINEER FOR REVIEW AND COMPLIANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS PRIOR TO FABRICATION, INSTALLATION, OR COMPLETION OF THE WORK:
 - CONCRETE, MORTAR AND GROUT MIX DESIGNS, INCLUDING ADMIXTURE DATA SHEETS.
 - BILL OF MATERIALS FOR CONSTRUCTION OF THE PROJECT.
 - MISCELLANEOUS METAL FABRICATION.
 - STEEL SHEET PILE CUT SHEETS AND LAYOUT PLAN.
 - JOINT LAYOUT PLAN AND MATERIALS.
 - TEMPORARY SHORING WALL DESIGN DRAWINGS AND CALCULATIONS BY DELEGATED ENGINEER IN THE STATE OF FLORIDA.
 - WELDER CERTIFICATIONS FOR ALL WELDERS SHALL BE SUBMITTED. CERTIFICATIONS MUST HAVE BEEN ISSUED WITHIN 3 YEARS PRIOR TO PERFORMING WORK ON THE PROJECT.
 - REQUESTS FOR SUBSTITUTIONS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SUBMIT 3 COPIES OF ALL PRODUCT DATA AND CUT SHEETS AS NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT REQUIREMENTS. CONTRACTOR SHALL BEAR THE BURDEN OF OBTAINING AUTHORIZATION FOR USE OF ITEMS TO BE SUBSTITUTED. ENGINEER'S DECISION REGARDING SUBSTITUTION SHALL BE FINAL.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL UTILITIES AND RECORDING THE RESULTS OF THE SURVEY TO THE RECORDING AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTOR'S RESPONSIBILITY.

V. TEMPORARY FACILITIES

F. TEMPORARY UTILITIES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY TO ITS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.

E. TRAFFIC REGULATION

- MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MUTCD. A MAINTENANCE OF TRAFFIC PLAN MUST BE APPROVED BY THE GOVERNMENTAL ENGINEERING DIVISION HAVING JURISDICTION FOR THE SECTION OF ROADWAY WHERE STARTING WORK IN THE PUBLIC RIGHT-OF-WAY.
- ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
- NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE CITY.

C. TEMPORARY FACILITIES

- THE CONTRACTOR'S ON-SITE EQUIPMENT, STOCK PILED MATERIAL, AND SUPPLIES SHALL BE KEPT IN A SECURE, FENCED AND LOCKED AREA. THE CONTRACTOR SHALL NOT SUPERVISE THE STAGING AREA OR STORAGE AREA.
- STAGING AND MATERIAL STORAGE SHALL NOT BE CONDUCTED ON ABUTTING PRIVATE PROPERTY OR PUBLIC RIGHT-OF-WAY WITHOUT APPROVAL FROM THE CITY OF FORT LAUDERDALE.
- CONTRACTOR SHALL CONSTRUCT AND MAINTAIN TEMPORARY STREET LIGHTING AS REQUIRED TO LIGHT THE CONSTRUCTION PROJECT LIMITS AT ALL TIMES TO AT LEAST THE SAME LIGHTING INTENSITY LEVELS AS WAS EXISTING PRIOR TO THE START OF CONSTRUCTION. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION AND MAINTAINING LIGHTING TO BE INCLUDED IN M.O.T. PAY ITEM.
- THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS ASSOCIATED WITH THIS PROJECT WITH THE CITY OF FORT LAUDERDALE.

VI. PROJECT CLOSEOUT

A. CLEAN AND CLEAN UP

- DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH, THE PAVED AREAS SHALL BE SWEEP BROOM CLEAN.
- THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER OR THOSE OF ITS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL OR BETTER TO THE EXISTING CONDITION IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THIS END, THE CONTRACTOR SHALL DO ALL NECESSARY HIGHWAY OR DRIVEWAY, WALK AND LANDSCAPING WORK, SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
- WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
- UPON COMPLETION OF THE PROPOSED DRAINAGE WORK, THE CONTRACTOR SHALL CLEAN THE NEW SYSTEM, REMOVE ALL POLLUTION CONTROL DEVICES FROM THE NEW AND EXISTING SYSTEM, AND CLEAN THE EXISTING STRUCTURES AND DRAINAGE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR CLEANING OF ALL OF THE EXISTING DRAINAGE SYSTEM AFFECTED BY THE CONSTRUCTION WITHIN THE RIGHT-OF-WAY UPON COMPLETION OF THE PROJECT.

B. PROJECT RECORD DOCUMENTS

- THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED.
- PRIOR TO THE PLACEMENT OF ANY ASPHALT OR CONCRETE PAVEMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD A PLAN SHOWING THE LOCATION AND SEALING BY A FLORIDA CERTIFIED PROFESSIONAL LAND SURVEYOR(S) SHOWING LIMEROCK BASE GRADES, ALL DRAINAGE AND WATER IMPROVEMENTS, PAVING OPERATIONS SHALL NOT COMMENCE UNTIL THE ENGINEER HAS REVIEWED THE "AS-BUILTS."
- ALL "AS-BUILT" INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
- UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD COMPLETE SETS OF "AS-BUILT" INFORMATION (INCLUDING AS-BUILTS) TO BE REVIEWED AND SEALED BY A FLORIDA CERTIFIED PROFESSIONAL LAND SURVEYOR(S) AS REQUIRED FOR SUBMITTAL AND APPROVAL. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR.
- ALL "AS-BUILT" INFORMATION ON ELEVATIONS PERTAINING TO THE WALL CONSTRUCTION SHALL BE CERTIFIED BY A REGISTERED LAND SURVEYOR.
- AS-BUILT INFORMATION ON THE WATER SYSTEM SHALL INCLUDE LOCATIONS OF ALL VALVES, FITTINGS, FIRE HYDRANTS, WATER SERVICES AND TOP OF PILE ELEVATIONS AT ALL FITTINGS AND AT A MINIMUM OF 100' SPACING.
- THE COST OF SIGNED AND SEALED AS-BUILTS AND CADD FILES SHALL BE INCLUDED IN THE COST OF THE OVERALL BID.

VII. MAINTENANCE OF TRAFFIC

- TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH FDOT STANDARDS. THE CURRENT EDITION OF THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION. THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS MINIMUM CRITERIA.
- THE CONTRACTOR SHALL INSTALL TRAFFIC AND PEDESTRIAN BARRICADES TO SEPARATE AND PROTECT THE DIRECT PEDESTRIANS AND TRAFFIC AROUND CONSTRUCTION AREAS.
- THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL POTHoles THAT DEVELOP WITHIN PROJECT LIMITS AND WILL MAINTAIN A SUPPLY OF COLD MIX ON THE PROJECT TO EXPEDITE THOSE REPAIRS. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED AS PART OF THE OVERALL BID.
- REQUEST FOR PROPOSED LANE CLOSURES OR TEMPORARY DETOURS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. TO ROADWAY'S MAINTAINING AGENCY TO CLOSE OR DETAIL.
- AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
- THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
- THE CONTRACTOR SHALL REMOVE ANY EXISTING OR PROPOSED PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL. WHEN THE CONFLICT NO LONGER EXISTS THE CONTRACTOR SHALL RESTORE PAVEMENT MARKINGS TO THEIR ORIGINAL POSITION, REMOVAL OF EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY FOLLOWING METHODS: BY MILLING AND ASPHALT OVERLAY, BY GRINDING AND ASPHALT OVERLAY, SAND OR WATER BLASTING, OR BY OTHER MEANS APPROVED BY THE ENGINEER. GRINDING (WITHOUT ASPHALT OVERLAY) SHALL ONLY BE PERMITTED IN NON-TRAFFIC AREAS AS DESIGNATED BY THE ENGINEER. ALL COSTS OF PAVEMENT MARKING REMOVAL INCLUDING THE COST OF ASPHALT OVERLAY REQUIRED WHEN MILLING OR GRINDING IS USED IN TRAFFIC AREAS, SHALL BE INCLUDED. USE OF BLACK PAINT TO COVER EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS IS PROHIBITED.
- CONTRACTOR SHALL REMOVE OR COVER ANY EXISTING OR PROPOSED SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL. WHEN THE CONFLICT NO LONGER EXISTS, CONTRACTOR SHALL RESTORE THE SIGNS TO THEIR ORIGINAL POSITION. COST TO BE INCLUDED IN THE BID.
- ALL EXISTING STREET NAMES AND STOP SIGNS AFFECTED BY CONSTRUCTION SHALL BE RELOCATED TO AND MAINTAINED IN A VISIBLE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION THEY SHALL BE RESTORED TO THEIR FINAL POSITION. COST TO BE INCLUDED IN BID.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORMWATER FROM ROADWAYS UTILIZED FOR TRAFFIC MAINTENANCE IN A MANNER APPROVED BY THE ENGINEER. COST TO BE INCLUDED IN BID.
- AT THE END OF EACH WORK PERIOD, ANY DROP-OFF IN THE AREA ADJACENT TO THE TRAVEL WAY SHALL BE BACKFILLED IN ACCORDANCE WITH STANDARD INDEX 102-600 OR SHALL BE OTHERWISE PROTECTED WITH TEMPORARY BARRIER AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY BROWARD COUNTY TRAFFIC ENGINEERING DIVISION 48 HOURS PRIOR TO ANY MODIFICATION AND/OR CHANGES OF AN EXISTING TRAFFIC SIGNAL (E.G. TAKING THE SIGNALS OFF-LINE, REMOVING OR REPLACING LOOP ASSEMBLIES OR REARRANGING TRAFFIC SIGNAL HEADS), THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR THE NORMAL MAINTENANCE OF THE EXISTING TRAFFIC SIGNAL(S) WITHIN THE PROJECT LIMITS. COST OF REARRANGING TRAFFIC SIGNAL HEADS AND MAINTAINING TRAFFIC SIGNALS TO BE INCLUDED IN THE BID.
- CONTRACTOR TO MAINTAIN ACCESS TO RESIDENCES AND BUSINESSES ALONG THE PROJECT. CONTRACTOR IS TO SUBMIT A PROPOSED METHOD OF MAINTAINING ACCESS TO THESE PROPERTIES TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
- ALL COSTS WITH MAINTAINING ACCESS TO BE INCLUDED IN THE BID.
- M.O.T. TRANSITIONS AND TEMPORARY INTERSECTION CROSSOVERS WHERE CONSTRUCTION HAS CAUSED GRADE DIFFERENCES BETWEEN THE EXISTING AND NEW ROADWAYS SHALL BE CONSTRUCTED USING 1:20 SLOPE TO ACCOMMODATE VEHICULAR TRAFFIC FROM ANY DIRECTION. WORK SHALL BE DONE WITH ASPHALTIC CONCRETE TYPE "S" AND SHALL INCLUDE ASPHALT SLOPE REMOVAL WHEN NO LONGER NEEDED. ALL COST WITH MAINTAINING CROSSOVERS SLOPE GRADE AND REMOVAL TO BE INCLUDED IN THE BID.
- CONTRACTOR SHALL MAINTAIN A CONTINUOUS PEDESTRIAN WAY ON ONE SIDE OF THE ROADWAY AT ALL TIMES. PEDESTRIAN WAY SHALL HAVE SMOOTH SURFACE AND BE GRADED ON CONFORMANCE WITH THE AMERICAN DISABILITIES ACT (ADA) REQUIREMENTS. ALL COSTS TO BE INCLUDED IN THE BID.
- AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP-OFF ADJACENT TO THE PEDESTRIAN/BICYCLE OR TRAVEL PATHS SHALL BE BACKFILLED FLUSH THE TRAVEL PATH OR SHALL BE PROTECTED WITH BARRICADES, TEMPORARY BARRIER WALL, OR APPROVED HANDRAIL. COST TO BE INCLUDED IN THE BID.
- PEDESTRIAN, BICYCLE AND WHEELCHAIR TRAFFIC SHALL BE GUIDED AND MAINTAINED USING APPROVED WARNING LIGHTS, SIGNING AND CHANNELIZATION DEVICES. SUCH CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH FDOT SPECIFICATIONS FOR CONSTRUCTION WORK ZONE TRAFFIC CONTROL. COST TO BE INSTALLED IN THE BID.
- IF THERE ARE UNEVEN PAVEMENT SURFACES DURING CONSTRUCTION, THE VERTICAL "DROP OFF" DIFFERENCE SHALL NOT BE MORE THAN 3 INCHES IN HEIGHT BETWEEN THE ADJACENT SURFACES.
- CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENCES AND BUSINESSES FOR GARBAGE/SANITATION PICK-UP ALONG THE PROJECT. ALL COSTS WITH MAINTAINING ACCESS TO BE INCLUDED IN THE BID.
- CONTRACTOR SHALL MAINTAIN CURRENT LEVELS OF ROADWAY LIGHTING WITHIN THE PROJECT LIMITS AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT. ALL COSTS WITH MAINTAINING LIGHTING TO BE INCLUDED IN THE BID.

VIII. DOCUMENTS AND LIMITATIONS

- THE CONTRACT DOCUMENTS HAVE MADE NO INTENT TO GIVE SPECIFIC INSTRUCTIONS CONCERNING THE MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES AND ASSIGNMENT OF WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SUPERVISING AND DIRECTING THE WORK.
- THE DRAWINGS, CALCULATIONS, AND REPRODUCTIONS RELATING TO THE STRUCTURAL PART OF THE PROJECT ARE INSTRUMENTS OF SERVICE TO BE USED FOR THIS PROJECT ONLY.
- IT IS UNDERSTOOD THAT THE ENGINEER MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, AS TO THE FINDINGS, DESIGNS, RECOMMENDATIONS, SPECIFICATIONS, OR PROFESSIONAL ADVICE EXCEPT THAT THESE INSTRUMENTS OF SERVICE HAVE BEEN PREPARED IN ACCORDANCE WITH CURRENT GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRACTICES.

IX. DEWATERING NOTES

- DEWATERING IS NOT ANTICIPATED. SHOULD DEWATERING BE REQUIRED, CONTRACTOR TO NOTIFY ENGINEER AND CITY.

TIDAL DATUM



- HORIZONTAL CONTROL IS REFERENCED TO NAD83

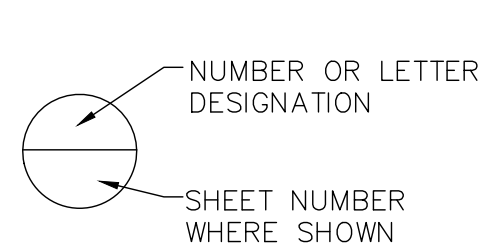
X. SURVEYS AND ELEVATION RELATIONSHIP

- ALL ELEVATIONS REFER TO N.A.V.D. 88 UNLESS OTHERWISE NOTED. THE LOCATION OF MEAN HIGH WATER AND MEAN LOW WATER LINES WERE BASED ON INFORMATION PROVIDED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) STATION NO. 8722939 (FT. LAUDERDALE BAHIA YACHT CLUB, FL)

XI. WELDING

- WELDING OF METAL FABRICATIONS SHALL CONFORM TO (AWS) "STRUCTURAL WELDING CODE-STEEL", D1.1.
- ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY CERTIFIED AND APPROVED WELDERS.
- ALL WELDED CONNECTIONS SHALL BE PRE-QUALIFIED IN ACCORDANCE WITH AWS D1.1.
- ALL WELDED STEEL CONNECTIONS SHALL BE MADE USING SHIELDED METAL ARC PROCESS, OR APPROVED EQUAL, WITH ELECTRODES CONFORMING TO E70XX.
- ALL WELDS (SHOP AND FIELD) SHALL BE INSPECTED (VISUAL AND RT, MT AND BY AWS CERTIFIED WELDING INSPECTORS (CWI) PER SPECIFICATIONS.

XII. SECTION DETAIL KEY



XIII. SHEET PILE INSTALLATION

- PILES SHALL BE DRIVEN TO THE LENGTHS SPECIFIED. THE ENGINEER MUST APPROVE ANY DEVIATION.
- PILES SHALL BE DRIVEN WITHIN THREE (3) INCHES OF PLAN LOCATION, AND PARALLEL TO EXISTING WALL.
- THE CONTRACTOR SHALL TAKE ADDITIONAL PRECAUTIONS TO MINIMIZE DAMAGE TO THE PILE COATING SYSTEM DURING HANDLING AND DRIVING. REPAIRS TO PILE COATING SYSTEM SHALL BE MADE AS SOON AS POSSIBLE AFTER THE DAMAGE OCCURS. THE CONTRACTOR SHALL PRE-APPROVE REPAIR METHODS WITH THE ENGINEER TO MINIMIZE DELAYS.
- PILE DRIVING LOGS SHALL BE MAINTAINED AND SUBMITTED EVERY 2 TO 3 DAYS TO THE ENGINEER. PILE LOGS SHALL REFLECT THE PILE LOCATION AND METHOD OF INSTALLATION. LOCATION OF HARD MATERIAL SHALL BE NOTED.
- CONTRACTOR SHALL REVIEW BORING LOGS FOR THE AREA AND FAMILIARIZE THEMSELVES WITH THE MATERIALS THAT WILL BE ENCOUNTERED. THERE IS AN INCONSISTENT THICKNESS OF HARD MATERIAL WITHIN THE SHEET PILE EMBEDMENT. CONTRACTOR IS RESPONSIBLE FOR BRINGING ALL EQUIPMENT NECESSARY TO BRING SHEET PILES TO GRADE INCLUDING, BUT NOT LIMITED TO, VIBRATOR HAMMER, PUNCHES WITHOUT DRILLS/AUGERS AND OTHER PAST PROJECTS IN ADJACENT PROPERTIES HAD DIFFICULTY VIBRATING. CONTRACTOR SHALL BE PREPARED TO BRING SHEETS TO GRADE AT NO ADDITIONAL COST TO THE OWNER.
- ALL SHEET PILES SHALL BE BROUGHT TO GRADE / TIP IN SAME DAY AS THEY ARE STARTED. NO SHEET CAN BE LEFT EXTENDING ABOVE THE TOP OF THE FINISH ELEVATION OVERNIGHT TO PREVENT SET UP OF PILES IN GEOTECHNICAL MATERIALS.
- DRY FIRING AND RAMPING OF THE PILE HAMMER AS REQUIRED BY ENVIRONMENTAL PERMIT. SEE PERMITS IN TECHNICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.
- CONTRACTOR SHALL USE A VARIABLE MOMENT HAMMER TO MINIMIZE VIBRATIONS OF SOILS AND ADJACENT STRUCTURES DURING PILE INSTALLATION.
- THERE IS MISCELLANEOUS CONCRETE DEBRIS AND ASSOCIATED ROCK RIP RAP USED AS ARMOUR FOR FORMER STRUCTURES THAT COULD INTERFERE WITH PILE DRIVING OPERATIONS. CONTRACTOR SHALL CLEAR LOOSE DEBRIS AS REQUIRED TO ENSURE PILE DRIVING IS COMPLETED AS SPECIFIED.
- ALL STEEL PILE PILES SHALL BE SANDBLASTED TO A NEAR WHITE FINISH AND COATED WITH 16 MILS TOTAL DFT OF COAL TAR EPOXY COATINGS SHALL EXTEND AS INDICATED.
- SETTING OF PILES IS NOT PERMITTED.
- WHERE ROCK OR STRONG MATERIAL IS ENCOUNTERED SUCH THAT THE WALL CANNOT BE SET TO GRADE BY DRIVING, REMOVE THE STRONG MATERIAL BY OTHER ACCEPTABLE MEANS, SUCH AS PUNCHING OR EXCAVATION.
- BACKFILL SHALL CONSIST OF CLEAN GRANULAR FILL WITH NO PARTICLE SIZES LARGER THAN 2 INCHES AND NOT MORE THAN 5% PASSING THE U.S. STANDARD NO. 200 SIEVE. ORGANIC SOILS (I.E. PEAT, ORGANIC SILT) ENCOUNTERED ON THE LAND AND UNDER THE WALL SHALL BE REMOVED WITH GRANULAR BACKFILL FOR HORIZONTAL DISTANCE EQUAL TO THE THICKNESS OF THE ORGANIC LAYER.
- ALL BACKFILL SHALL BE PLACED IN LOOSE LIFTS NOT MORE THAN 12 INCHES IN THICKNESS TO ALLOW ACHIEVEMENT OF A DENSITY OF 95% OF THE STANDARD PROCTOR (1.60) DETERMINED MARKING OF THE EXCAVATION.
- ONLY HAND OPERATED (LIGHT WEIGHT) COMPACTION EQUIPMENT SHOULD BE USED WITHIN 5 FEET OF THE BACK OF THE WALLS TO AVOID DEVELOPING EXCESSIVE LATERAL EARTH PRESSURE.
- CONTRACTOR SHALL REVIEW GEOTECHNICAL REPORT PRIOR TO COMMENCEMENT OF INSTALLATION AND ENGAGE GEOTECHNICAL ENGINEER FOR POTENTIAL DIFFICULTIES THAT WILL BE ENCOUNTERED AS PART OF THE INSTALLATION.

XIV. DESIGN SPECIFICATIONS AND REFERENCES

- STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN" 15th EDITION.
- STRUCTURAL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
- THE GOVERNING CODE FOR THIS PROJECT IS THE 2023 FLORIDA BUILDING CODE, WHICH REFERENCES ASCE 110-2-2504 - DESIGN OF SHEET PILE WALLS, DESIGNED IN ACCORDANCE WITH U.S. ARMY CORPS OF ENGINEERS EM 1110-2-2504 - DESIGN OF SHEET PILE WALLS.
- STRUCTURAL WELDING CODE D1.1, LATEST EDITION, BY AMERICAN WELDING SOCIETY.
- REFER TO SOIL BORING INFORMATION AND RECOMMENDATIONS FOR ADDITIONAL INFORMATION.
- REFER TO ENVIRONMENTAL PERMITS FOR ADDITIONAL REQUIREMENTS.
- STRUCTURAL LOADS AND FACTORS ARE BASED ON THE ANSII/ASCE 7-22 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
 - Vult = 170 MPH (3 second gust) - ULTIMATE
 - RISK CATEGORY II
 - EXPOSURE D
- BUREAU WALL.
 - DEAD LOADS: REINFORCED CONCRETE: 145 PCF.
 - VERTICAL LIVE LOADS SURFACE: 250 PSF.
 - DESIGN SCOUR DEPTH: VARIES (2' BELOW PROPOSED MUDLINE)
 - TOP OF CAP: ELEV. +5.00 NAVD88
 - MAX. GRADE LANDWARD: +3.00 NAVD88

XV. STRUCTURAL STEEL METALS

- FABRICATION AND ERECTION OF MISCELLANEOUS FABRICATIONS SHALL CONFORM TO THE A.I.S.C. "MANUAL OF STEEL CONSTRUCTION", 15TH EDITION AND THE A.I.S.C. "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", 2016.
- ALL SHEET PILES SHALL CONFORM TO ASTM A572 GRADE 60, WITH A MINIMUM YIELD STRESS OF 60 KSI.
- STEEL SHAPES, PLATES, BRACKETS, SEATS AND OTHER FABRICATIONS SHALL BE OF STEEL CONFORMING TO A.S.T.M. A36, WITH A MINIMUM YIELD STRESS OF 36 KSI.
- TUBE SECTIONS SHALL CONFORM TO A.S.T.M. A500, GRADE B WITH A MINIMUM YIELD STRESS OF 46 KSI. PIPE SHALL CONFORM TO A.S.T.M. A401 OR A53, TYPES E OR S, WITH A MINIMUM YIELD STRESS OF 36 KSI.
- ALL SHEET PILES SHALL BE CAST INTO CONCRETE SHALL BE A.S.T.M. F1554, GR 96 UNLESS NOTED OTHERWISE.
- SUBMIT MISCELLANEOUS FABRICATIONS SHOP AND ERECTION DRAWINGS FOR REVIEW BY THE ENGINEER. ANY SPLICES OR CONNECTIONS NOT FULLY PROVIDED IN THESE PLANS SHALL BE DESIGNED BY A DELEGATED ENGINEER WHO OVERSEES THE DETAILING OF THE STEEL SHOP AND ERECTION DRAWINGS, AND BEAR THE SEAL OF THAT INDIVIDUAL. BEING LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA. PROVIDE SIGNED AND SEALED ENGINEERING CALCULATIONS FOR ANY SPECIAL MOMENT SPLICE DESIGNS.
- ALL STEEL PLATES, BOLTS, WASHERS, NUTS, FASTENERS, HANGERS, STRAPS AND CLIPS SHALL BE TYPE 304 STAINLESS STEEL UNO.
- BOLTS, NUTS AND WASHERS SHALL CONFORM TO TYPE 304 STAINLESS STEEL.
- NAILS, SCREWS, HANGERS, STRAPS, AND CLIPS SHALL BE FABRICATED FROM APPROPRIATE MATERIALS TO MEET CONDITIONS SHOWN.
- PRE-FABRICATED AND MANUFACTURED METAL CONNECTORS, STRAPS, ANCHORS, TIES AND HANGERS SHALL BE HOT DIPPED GALVANIZED (H.D.G.) TO CONFORM TO ASTM A-625, G90 UNO.
- PROVIDE SUBMITTAL OF ALL ITEMS OR PROPOSED SUBSTITUTIONS FOR EQUAL APPROVAL. PROVIDE SIZE AND NUMBER OF FASTENERS PER MANUFACTURER RECOMMENDATIONS, UNO, ON PLANS.

XVI. VIBRATION AND SETTLEMENT MONITORING

- CONTRACTOR TO INSPECT AND DOCUMENT THE CONDITION OF THE EXISTING STRUCTURES WITHIN 200 FEET OF PROJECT INCLUDING HOUSES, PAVEMENT, AND SWIMMING POOLS AND THEIR ASSOCIATED DECKS. ALL EXISTING CONDITIONS SHALL BE PHOTOGRAPHED AND VIDEO DOCUMENTED WITH DESCRIPTIONS AND PICTURES USING A QUALIFIED SPECIALTY ENGINEER. SUBMIT TWO REPORTS, SIGNED AND SEALED BY THE SPECIALTY ENGINEER, DOCUMENTING THE CONDITION OF THE STRUCTURES. SUBMIT ONE REPORT BEFORE BEGINNING THE CONSTRUCTION OPERATIONS THAT MAY AFFECT THE EXISTING STRUCTURES SUCH AS BUT NOT LIMITED TO SHEET PILE INSTALLATION



THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

XVII. REINFORCED CONCRETE

A. REINFORCED CONCRETE

1. ALL CONCRETE SHALL CONTAIN:
 - 1.1. PORTLAND CEMENT -ASTM C150- TYPE II.
 - 1.2. FLY ASH -ASTM C618, CLASS F, (25% MAX.)
 - 1.3. HIGH RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER) AND WATER REDUCING ADMIXTURE. (SLUMP 6-8")
 - 1.4. LOW WATER-TO-CEMENTITIOUS-MATERIALS RATIO - W/CM < 0.40.
 - 1.5. LIMIT ON SIZE OF LARGE AGGREGATE - 57 STONE
2. STRUCTURAL CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS, AND SHALL DEVELOP THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS, AS WELL AS OTHER PROPERTIES SPECIFIED IN THESE DOCUMENTS. SEE SPECIFICATIONS FOR DESIGN MIX REQUIREMENTS.
 - 2.1. CIP BULKHEAD CAPS/SLABS/WALLS 5,000 PSI
3. CONCRETE SHALL BE READY-MIX, REGULAR WEIGHT FOR ALL STRUCTURAL USES, WITH MINIMUM DRY DENSITY OF 140 LBS. PER CUBIC FOOT.
4. ALL PUMPED CONCRETE CONTAINING #57 AGGREGATE SHALL CONTAIN A HIGH RANGE WATER REDUCING AGENT. MINIMUM SIZE OF DISCHARGE SHALL BE 4 INCHES.
5. CONCRETE SHALL BE WET CURED FOR A 7 DAY MINIMUM FOLLOWED BY FDOT APPROVAL TYPE 2 CURRING COMPOUND
6. CONTROL AND EXPANSION JOINTS SHALL BE PER DRAWINGS.
7. ALL CONCRETE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH ACI 318-14, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
8. CHAMFER ALL EXPOSED CONCRETE EDGES, - 1"x1" UNLESS NOTED OTHERWISE.
9. REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND INSTALLED IN ACCORDANCE WITH ACI 318 AND ACI DETAILING MANUAL, ACI 315.
10. REINFORCING STEEL SHALL BE NEW, DEFORMED BARS, FREE OF RUST, SCALE AND OIL, CONFORMING TO ASTM A-615, GRADE 60 WITH A MINIMUM YIELD STRENGTH = 60,000 PSI.
11. LAP SPlice REINFORCING STEEL AS INDICATED. LAP SPLICES NOT SPECIFICALLY DIMENSIONED SHALL BE IN ACCORDANCE WITH ACI 318, CLASS B AS INDICATED BELOW. TOP BARS ARE HORIZONTAL BARS WITH 12 INCHES OR MORE OF CONCRETE CAST BELOW THE BARS. IN BEAMS, LAP CONTINUOUS BOTTOM STEEL OVER SUPPORTS AND CONTINUOUS TOP STEEL AT MIDSPAN, UNLESS NOTED OTHERWISE.

BAR SIZE	TOP BARS	OTHER BARS
	5,000 PSI	5,000 PSI
#3	23"	17"
#4	30"	23"
#5	37"	28"
#6	45"	34"
#7	64"	49"
#8	73"	56"
#9	82"	63"
#10	93"	71"
#11	103"	78"
#14	123"	94"
#18	163"	125"

12. TERMINATE ALL DISCONTINUOUS ENDS OF TOP BARS WITH STANDARDS ACI HOOKS. TURN HOOKS UP OR DOWN INTO SUPPORTING STRUCTURE. CORNER BARS SHALL BE SUPPLIED AND PLACED IN ADDITION TO HOOKED ENDS, PER THE DETAILS IN THESE DOCUMENTS.
13. PROVIDE 3 INCH MINIMUM CONCRETE COVERAGE OVER ALL REINFORCING UNLESS NOTED OTHERWISE.
14. ALL PENETRATIONS THROUGH SLABS, BEAMS OR FOOTINGS SHALL BE SLEEVED INDIVIDUALLY. CORE DRILLING OF EXISTING CONCRETE MEMBERS WILL NOT BE PERMITTED, UNLESS NOTED ON PLANS. SUBMIT LOCATIONS AND SIZES OF ALL SLEEVES FOR ENGINEER APPROVAL PRIOR TO CASTING.
15. WHERE WALLS, BEAMS AND CAPS CHANGE DIRECTION, PROVIDE CORNER BARS OF SAME SIZE AND QUANTITY AS THE SPECIFIED LONGITUDINAL STEEL.
16. FOLLOW ACI 301, ACI 305 AND ACI 308 FOR HOT AND COLD WEATHER CONCRETE WORK.
17. ALL EMBEDDED ITEMS SHALL BE SECURELY FIXED AND MAINTAINED IN POSITION PRIOR TO AND DURING CONCRETE PLACEMENT.
18. NOT MORE THAN ONE-HALF OF THE REINFORCING BARS SHALL BE SPLICED AT ANY ONE LOCATION, WITH ADJACENT SPLICES STAGGERED NOT LESS THAN ONE LAP SPlice LENGTH BETWEEN SPLICES.
19. HOOKS AT THE ENDS OF REINFORCING BARS SHALL BE STANDARD ACI 90 DEGREE AND 180 DEGREE HOOKS CONFORMING TO ACI 318.
20. DO NOT CUT, BEND OR OTHERWISE MODIFY REINFORCING STEEL IN THE FIELD. REINFORCING BARS SHALL NOT BE DISPLACED PRIOR TO OR DURING CONCRETE PLACING TO ACCOMMODATE ANCHORS, EMBEDS, OR OTHER ITEMS.
21. CONCRETE CAP SHALL NOT BE POURED WITHIN 300 FEET OF PILE DRIVING OR VIBRATORY HAMMER OPERATIONS TO AVOID CRACKING, SETTling ON IMPACTS TO CURING.
22. INTENTIONALLY ROUGHEN ALL EXISTING SMOOTH CONCRETE SURFACES TO RECEIVE FRESH CONCRETE PLACEMENT TO AT LEAST A 1/4" AMPLITUDE.
23. CONCRETE BULKHEAD CAP CAN NOT BE POURED WITHIN 7 DAYS OF A PREVIOUS ADJACENT POUR. SKIP POURING WILL BE REQUIRED.

B. TREMI CONCRETE

1. MINIMUM CEMENT CONTENT OF 658 POUNDS PER CUBIC YARD.
2. USE HIGH RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZERS) ADMIXTURE IN ACCORDANCE WITH ASTM C494/C494M, TYPE F OR TYPE G.
3. FINE AGGREGATE RANGE: 40 PERCENT TO 50 PERCENT OF TOTAL AGGREGATES BY WEIGHT.
4. PROPORTION MIX FOR DESIGN STRENGTH AND SLUMP RANGE OF 6 INCHES TO 9 INCHES WITH MAXIMUM WATER-CEMENT RATIO.
5. USE ANTIWASHOUT ADMIXTURE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

ENGINEER: JAIMIE CHITTELMAN, P.E.
REG. No. 07473
DATE:

DRAWN BY: ALB
DATE: 9/30/2025
DESIGNED BY: CTS
CHECKED BY: JG
SCALE: AS NOTED
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		DESCRIPTION
NO.	DATE	BY: CHKD

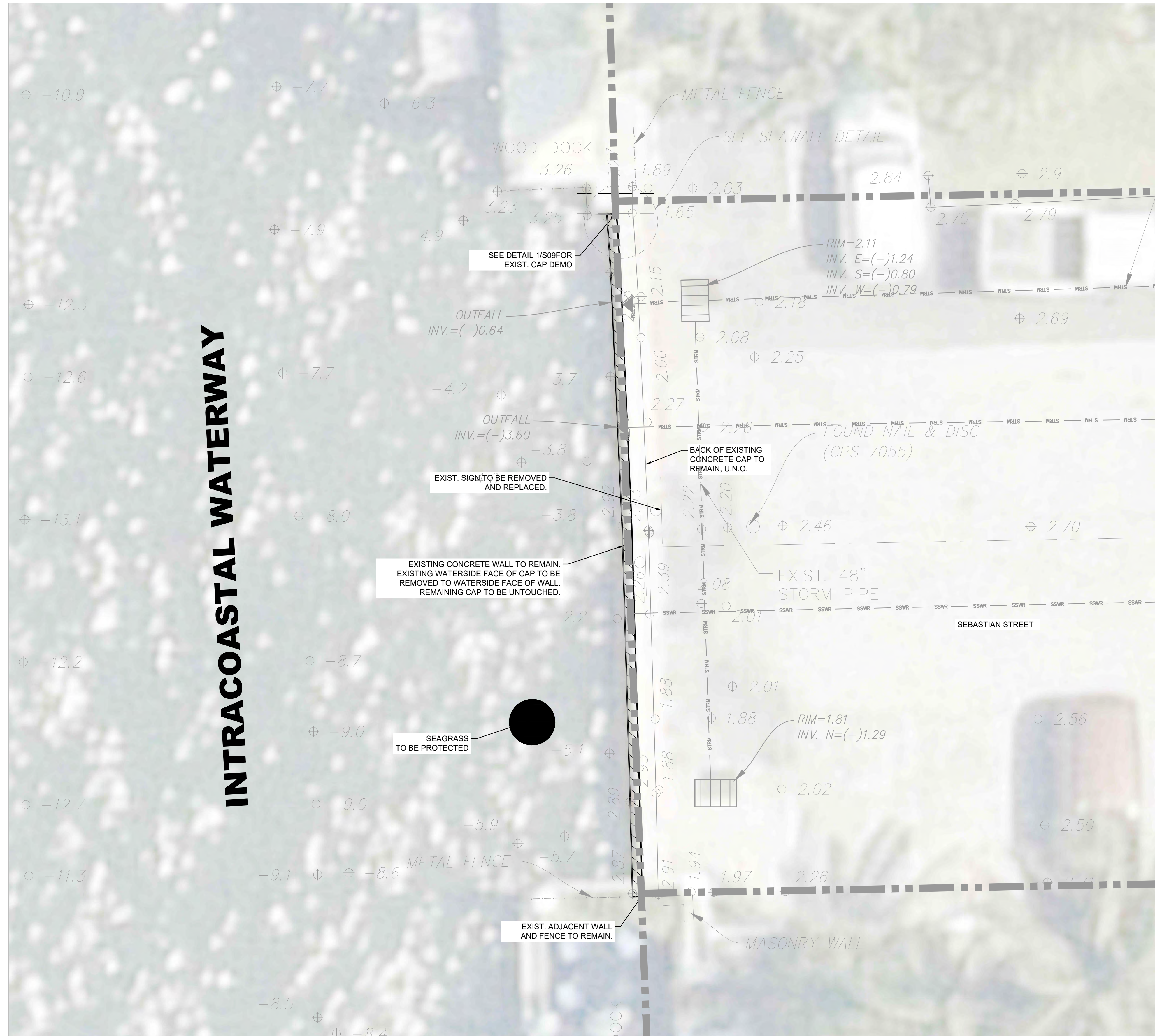
PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
GENERAL NOTES
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO. S02
TOTAL: 11
CAD FILE: 13008-S02-NOTE
DRAWING FILE NO. 13008

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BID SET NOT FOR CONSTRUCTION

INTRACOASTAL WATERWAY

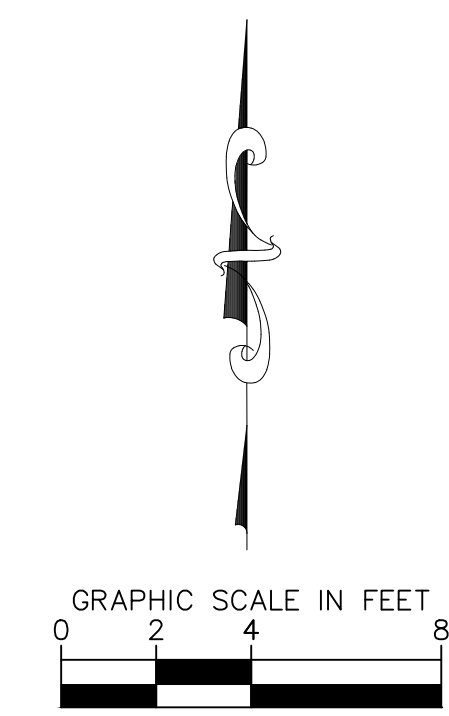


LEGEND

LIMITS OF PARTIAL CAP REMOVAL

SHEET NOTES

- VIBRATION MONITORING
 - CONTRACTOR SHALL PROVIDE VIBRATION MONITORING PER FDOT STANDARD SPECIFICATIONS SECTION 108 - MONITORING EXISTING STRUCTURES. THIS INCLUDES BUT IS NOT LIMITED TO:
 - EMPLOYING A SPECIALTY ENGINEER TO PROVIDE A SYSTEM WHICH WILL CONTINUOUSLY MONITOR AND RECORD GROUND VIBRATION LEVELS NEAR THE STRUCTURES SHOWN ON PLAN DURING THE OPERATION OF ANY EQUIPMENT CAUSING VIBRATIONS.
 - PROVIDING VIBRATION MONITORING EQUIPMENT CAPABLE OF DETECTING VELOCITIES OF 0.01 INCHES PER SECOND OR LESS.
 - OBTAINING THE ENGINEER'S APPROVAL FOR THE NUMBER AND LOCATIONS OF THE MONITORING POINTS AND INSTALL THE SYSTEM PER THE SPECIALTY ENGINEER'S RECOMMENDATIONS.
 - SUBMITTING VIBRATION RECORDS TO THE ENGINEER WITHIN 24 HOURS OF PERFORMING THE MONITORING ACTIVITY
 - UPON EITHER DETECTING VIBRATION LEVELS REACHING 0.5 INCHES PER SECOND OR DAMAGE TO THE STRUCTURE, IMMEDIATELY STOP THE SOURCE OF VIBRATIONS, BACKFILL ANY OPEN EXCAVATIONS, NOTIFY THE ENGINEER AND SUBMIT A CORRECTIVE ACTION PLAN FOR ACCEPTANCE BY THE ENGINEER.
 - CONTRACTOR TO DOCUMENT CONDITION OF ALL EXISTING STRUCTURES PRIOR TO COMMENCING WORK.
 - PROTECT ALL EXISTING TREES/SHRUBS/ATT/FPL/EXISTING UTILITIES/ETC. CONTRACTOR TO REPLACE IN KIND IF DAMAGED OR REMOVED.
 - TIEBACKS AND DEADMEN FOR EXISTING WALL WERE NOT DISCOVERED DURING DESIGN INVESTIGATIONS. CONTRACTOR TO VERIFY NO TIEBACKS ARE PRESENT PRIOR TO CONSTRUCTION. IF TIEBACKS OR DEADMEN ARE DISCOVERED, CONTRACTOR TO CONTACT ENGINEER.



ENGINEER:
JAIMIE CHITTELMAN, P.E.
 REG. NO: 87473
 DATE:

DRAWN BY: ALB
 DESIGNED BY: CTS
 CHECKED BY: JG
 DATE: 9/30/2025
 SCALE: AS NOTED
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING & ARCHITECTURE
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS	
NO.	DESCRIPTION

PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
SEAWALL DEMOLITION PLAN SEBASTIAN STREET
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO.
S03
 TOTAL: 11
 CAD FILE:
 13008-S03-DEMO
 DRAWING FILE NO.
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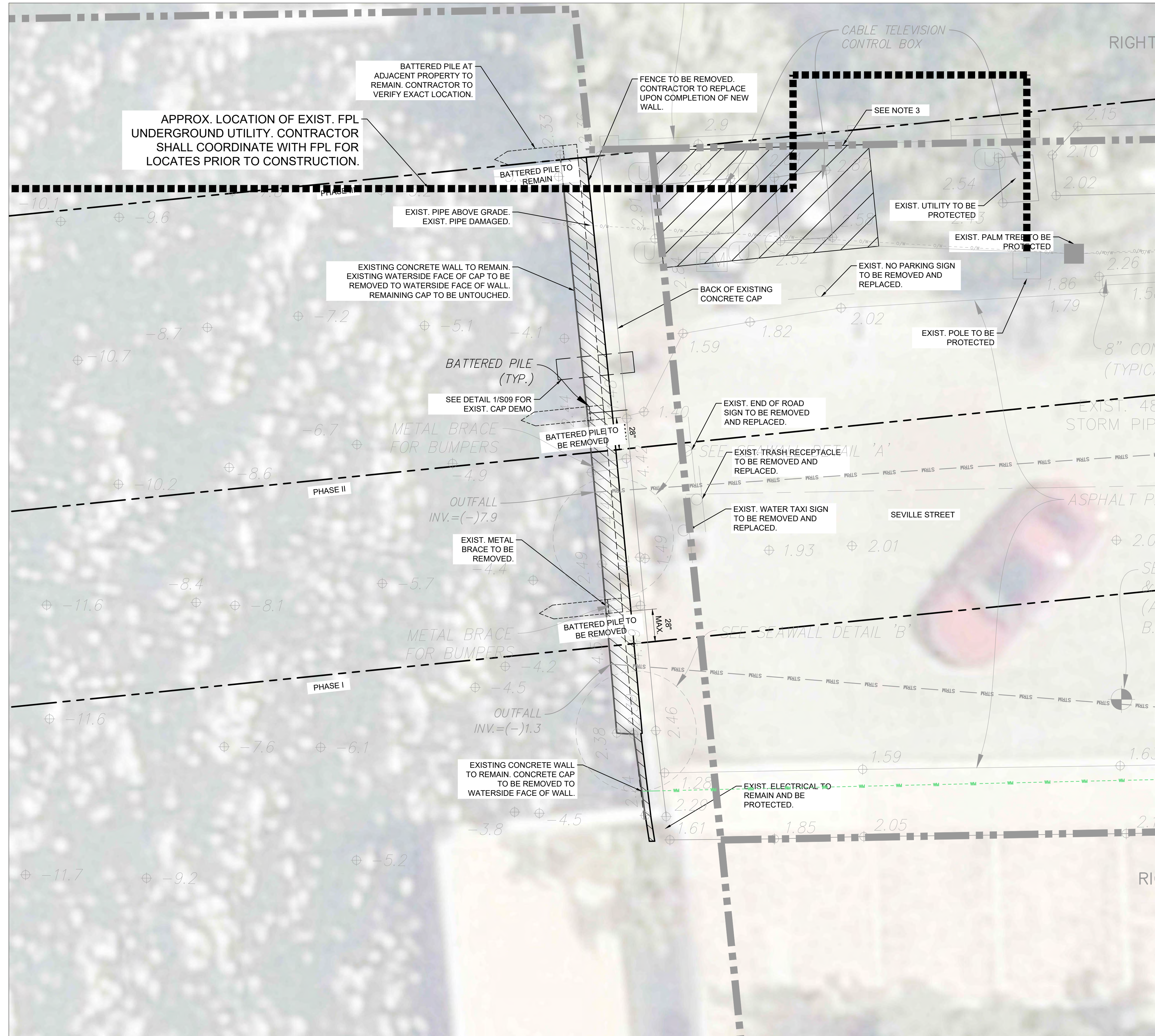


THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

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BID SET NOT FOR CONSTRUCTION

K:\FTL_CIVIL\043 JOBS\043184256 RFQ 12637-421 TO 6 SEAWALL REPLACEMENT\CAD\UPDATED PROJECT #13008\PLANSHEETS\STRUCTURAL\13008-MULTI-DEMO.DWG



LEGEND

LIMITS OF PARTIAL CAP REMOVAL

SHEET NOTES

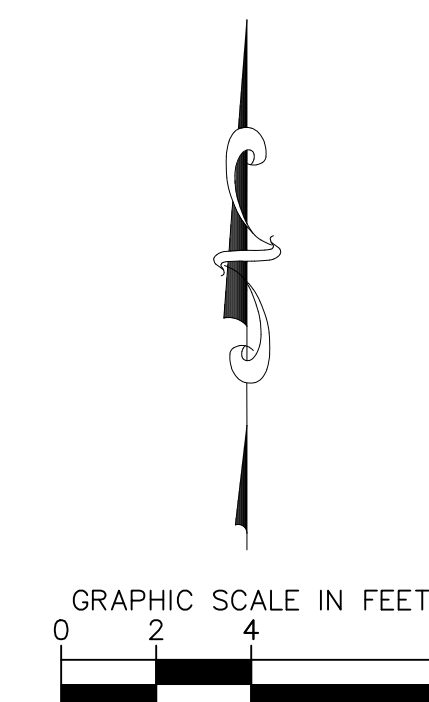
1. VIBRATION MONITORING
 - 1.1. CONTRACTOR SHALL PROVIDE VIBRATION MONITORING PER FDOT STANDARD SPECIFICATIONS SECTION 108 - MONITORING EXISTING STRUCTURES. THIS INCLUDES BUT IS NOT LIMITED TO:
 - EMPLOYING A SPECIALTY ENGINEER TO PROVIDE A SYSTEM WHICH WILL CONTINUOUSLY MONITOR AND RECORD GROUND VIBRATION LEVELS NEAR THE STRUCTURES SHOWN ON PLAN DURING THE OPERATION OF ANY EQUIPMENT CAUSING VIBRATIONS.
 - PROVIDING VIBRATION MONITORING EQUIPMENT CAPABLE OF DETECTING VELOCITIES OF 0.01 INCHES PER SECOND OR LESS.
 - OBTAINING THE ENGINEER'S APPROVAL FOR OF THE NUMBER AND LOCATIONS OF THE MONITORING POINTS AND INSTALL THE SYSTEM PER THE SPECIALTY ENGINEER'S RECOMMENDATIONS.
 - SUBMITTING VIBRATION RECORDS TO THE ENGINEER WITHIN 24 HOURS OF PERFORMING THE MONITORING ACTIVITY
 - UPON EITHER DETECTING VIBRATION LEVELS REACHING 0.5 INCHES PER SECOND OR DAMAGE TO THE STRUCTURE, IMMEDIATELY STOP THE SOURCE OF VIBRATIONS, BACKFILL ANY OPEN EXCAVATIONS, NOTIFY THE ENGINEER AND SUBMIT A CORRECTIVE ACTION PLAN FOR ACCEPTANCE BY THE ENGINEER.
 2. CONTRACTOR TO DOCUMENT CONDITION OF ALL EXISTING STRUCTURES PRIOR TO COMMENCING WORK.
 3. PROTECT ALL EXISTING TREES/SHRUBS/ATT/FPL/EXISTING UTILITIES/EQUIPMENT/ETC. CONTRACTOR TO REPLACE IN KIND IF DAMAGED OR REMOVED.
 4. DEMOLISH BATTERED PILES 1 FOOT BELOW MUDDLINE (TYP.)

RECOMMENDED PHASING SEQUENCE

CONTRACTOR SHALL SUBMIT A SEQUENCING PLAN TO ENGINEER AND CITY FOR REVIEW. THE BELOW IS RECOMMENDED. HOWEVER, AT CONTRACTORS OPTION, AN ALTERNATE PHASING SEQUENCE MAY BE PROPOSED IN WRITING TO THE ENGINEER AND CITY FOR REVIEW

- PHASE I: REMOVE BACKFILL FROM LANDSIDE OF WALL TO ALLEVIATE ACTIVE EARTH PRESSURE.
- PHASE II: DEMOLISH EXISTING CONCRETE CAP AND INSTALL PROPOSED STEEL SHEET PILE WALL. STOP 28" MAX. FROM EXISTING BATTERED PILE I (SEE PLAN).
- PHASE III: DEMOLISH EXISTING BATTERED PILE I AND CONCRETE CAP AND INSTALL PROPOSED SHEET PILE WALL. STOP 28" MAX. FROM EXISTING BATTERED PILE II (SEE PLAN).
- PHASE IV: DEMOLISH EXISTING BATTERED PILE II AND CONCRETE CAP AND INSTALL PROPOSED SHEET PILE WALL. STOP AT EXISTING BATTERED PILE III (SEE PLAN). INSTALL STEEL PLATE FOR CLOSURE POUR (SEE DETAIL 1/S09), NORTHERN-MOST EXISTING BATTERED PILE TO REMAIN (SEE PLAN).

*SHOULD TEMPORARY SHORING OF EXISTING WALL BE REQUIRED, CONTRACTOR SHALL PROVIDE SHORING DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A SPECIALTY ENGINEER REGISTERED IN THE STATE OF FLORIDA. TEMPORARY SHORING COSTS SHOULD BE INCLUDED IN COST OF PROPOSED WALL AT NO ADDITIONAL COST TO OWNER.



THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

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BID SET NOT FOR CONSTRUCTION

ENGINEER:
JAIMIE CHITTELMAN, P.E.
 REG. No. 07473
 DATE:

DRAWN BY: ALB
 DATE: 9/30/2025
 DESIGNED BY: CTS
 SCALE: AS NOTED
 CHECKED BY: JG
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING & ARCHITECTURE
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS	
NO.	DESCRIPTION

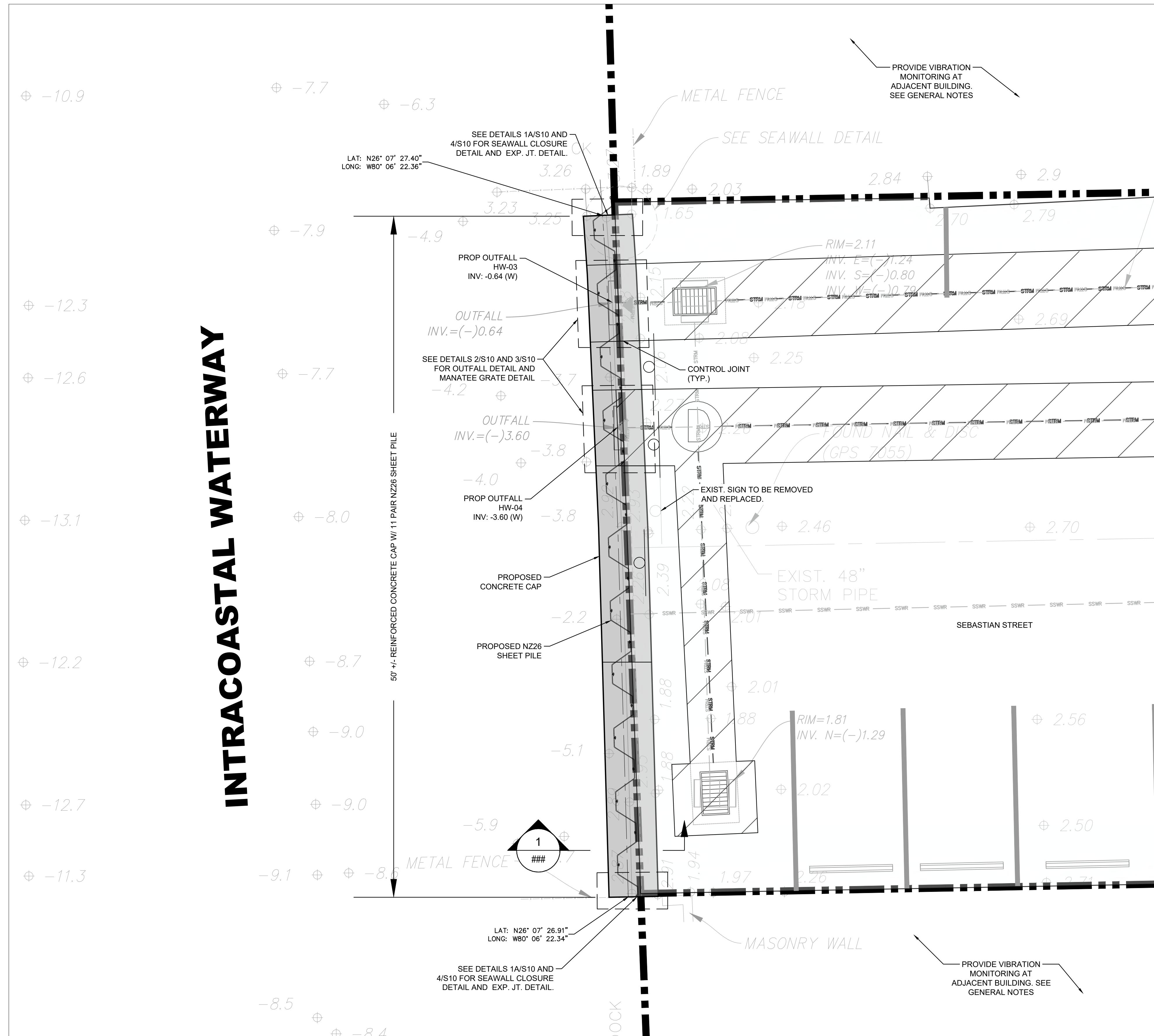
PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
SEAWALL DEMOLITION PLAN SEVILLE STREET
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO.
S04

TOTAL: 11
 CAD FILE: 13008-S04-DEMO
 DRAWING FILE NO. 13008

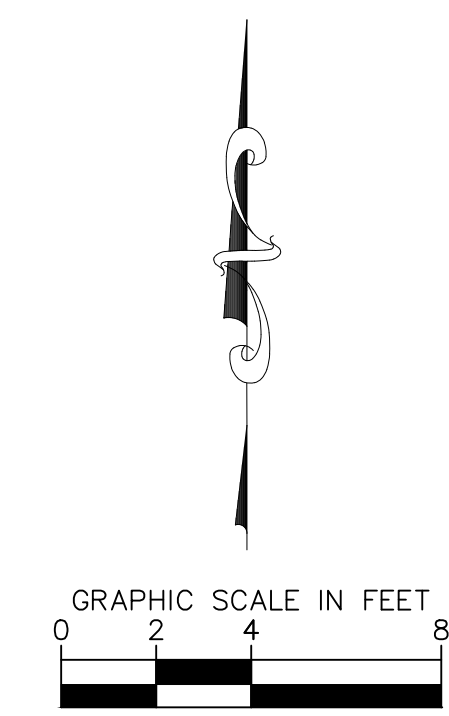
K:\FTL_CIVIL\043_JOBS\043184256_RFQ_12637-421 TO 6 SEAWALL REPLACEMENT\CAD\UPDATED PROJECT #13008\PLANSHEETS\STRUCTURAL\13008-MULTI-PROP.DWG

INTRACOASTAL WATERWAY



LEGEND

PROPOSED CONCRETE CAP



THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

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BID SET NOT FOR CONSTRUCTION

PROJECT # 13008
 SEBASTIAN AND SEVILLE
 SEAWALL REPLACEMENT
 PROPOSED SEAWALL PLAN SEBASTIAN STREET
 SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO.	S05
TOTAL:	11
CAD FILE:	13008-S05-PROP
DRAWING FILE NO.	13008

NO.	DATE	BY	CHK'D	DESCRIPTION

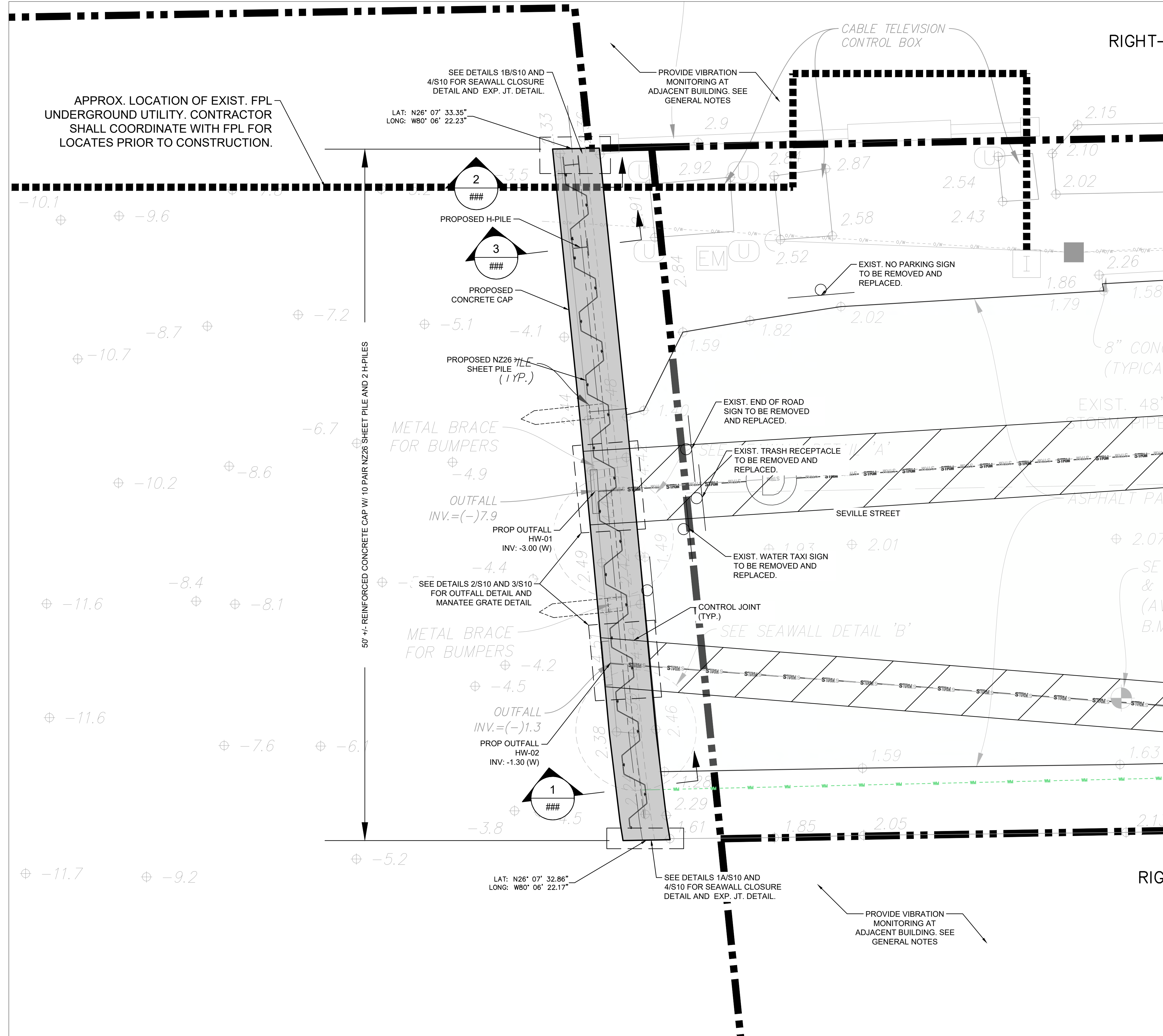
CITY OF FORT LAUDERDALE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING & ARCHITECTURE
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DATE:	9/30/2025
DRAWN BY:	ALB
DESIGNED BY:	CIS
CHECKED BY:	JG
SCALE:	AS NOTED
FIELD BOOK:	

ENGINEER:
JAIIME GHITTELMAN, P.E.
 REG. No. 07473
 DATE:

TEL: (861) 840-0873
 FAX:

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LEGEND

PROPOSED CONCRETE CAP

ENGINEER: JAIMIE GHITTELMAN, P.E.
REG. NO. 87473
DATE:

DRAWN BY: ALB
DESIGNED BY: CTS
CHECKED BY: JG
DATE: 9/30/2025
SCALE: AS NOTED
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS	
NO.	DESCRIPTION

PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
PROPOSED SEAWALL PLAN SEVILLE STREET
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO.	S06
TOTAL:	11
CAD FILE:	13008-S06-PROP
DRAWING FILE NO.	13008

BID SET NOT FOR CONSTRUCTION

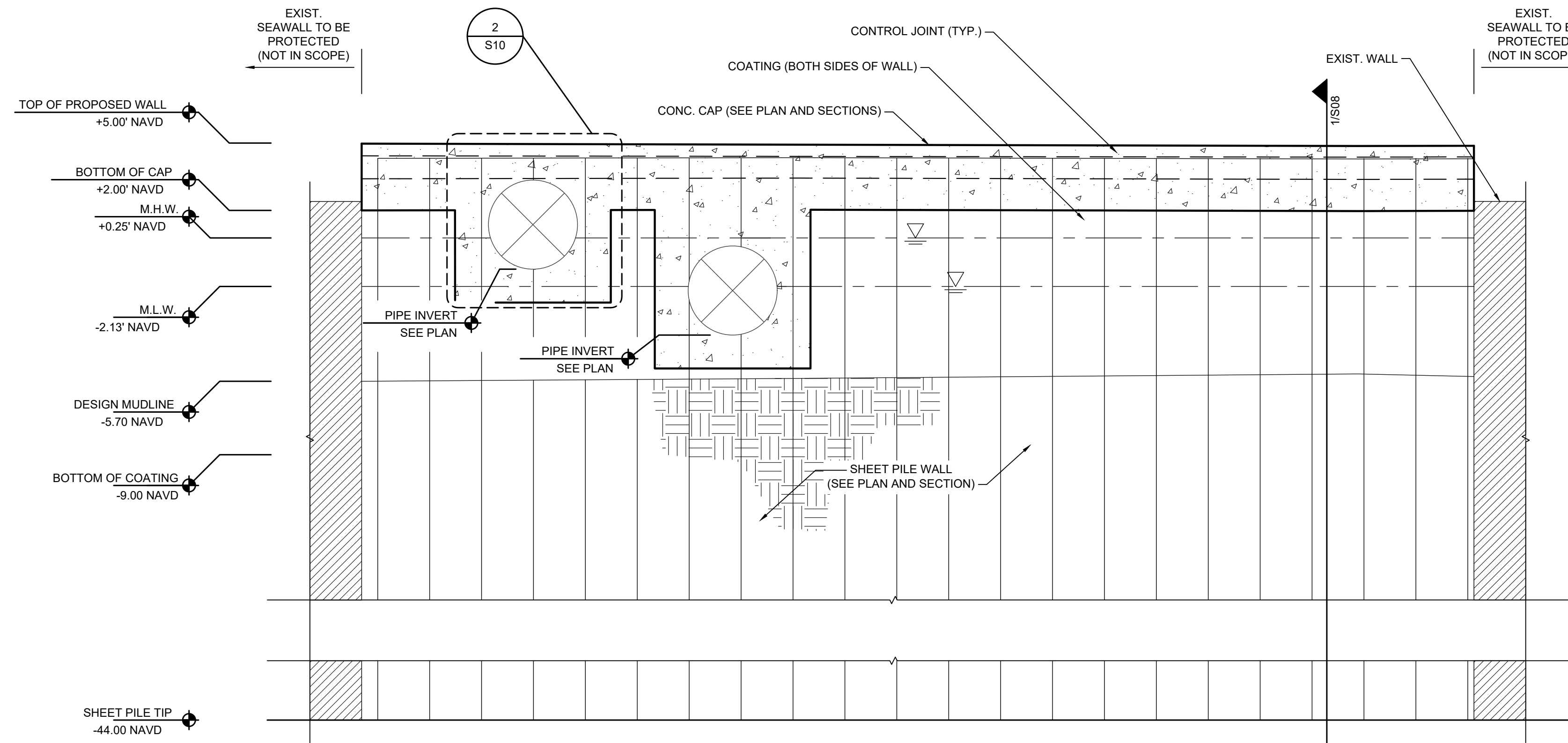


THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

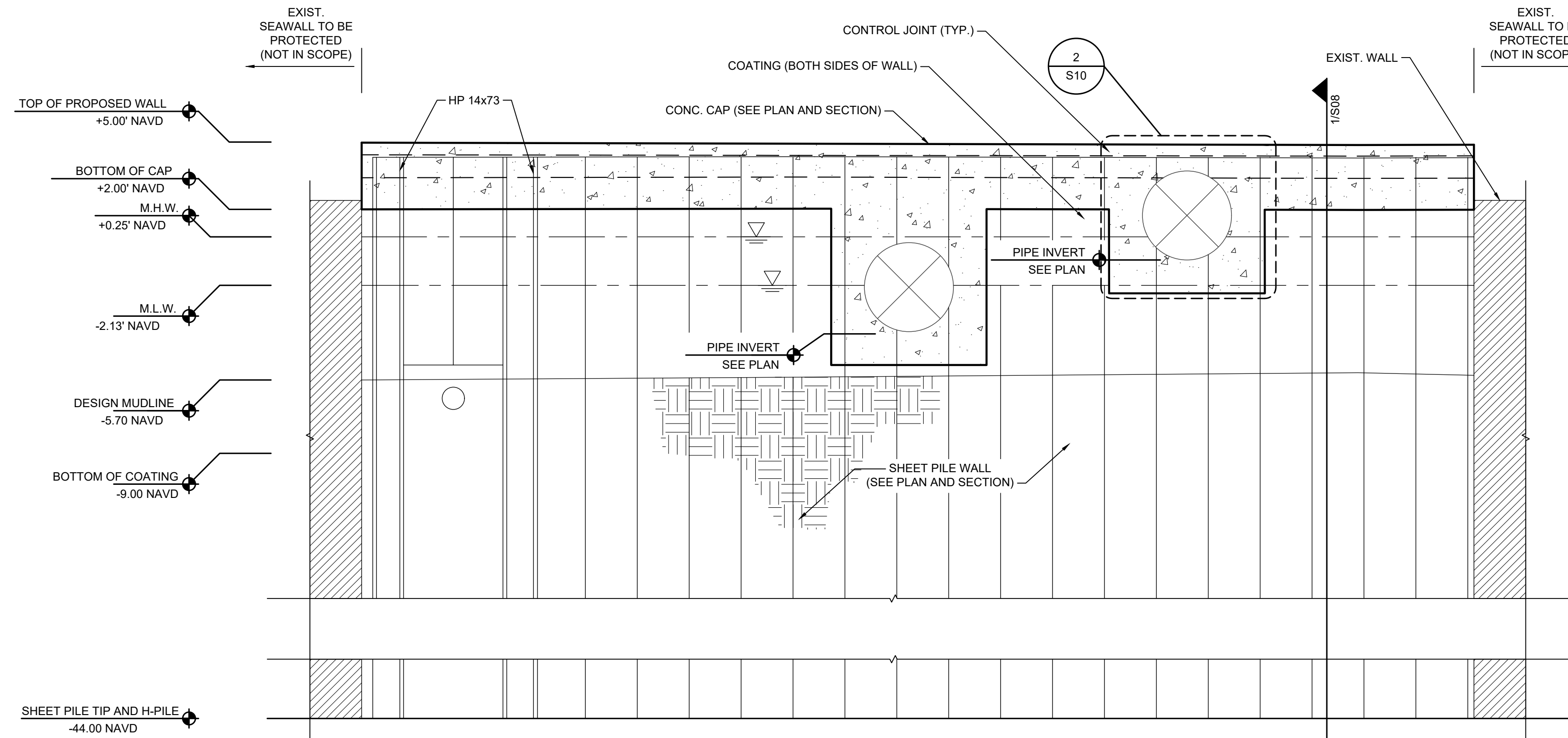
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2 SEBASTIAN STREET ELEVATION
S07 SCALE: N.T.S.



1 SEVILLE STREET ELEVATION
S07 N.T.S.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.



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BID SET NOT FOR CONSTRUCTION

ENGINEER:
JAIIME GHITTELMAN, P.E.
REG. No. 07473
DATE:

DRAWN BY: ALB
DESIGNED BY: CTS
CHECKED BY: JG
DATE: 9/30/2025
SCALE: AS NOTED
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		DESCRIPTION
NO.	DATE	BY: CHKD

PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
DETAILS
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

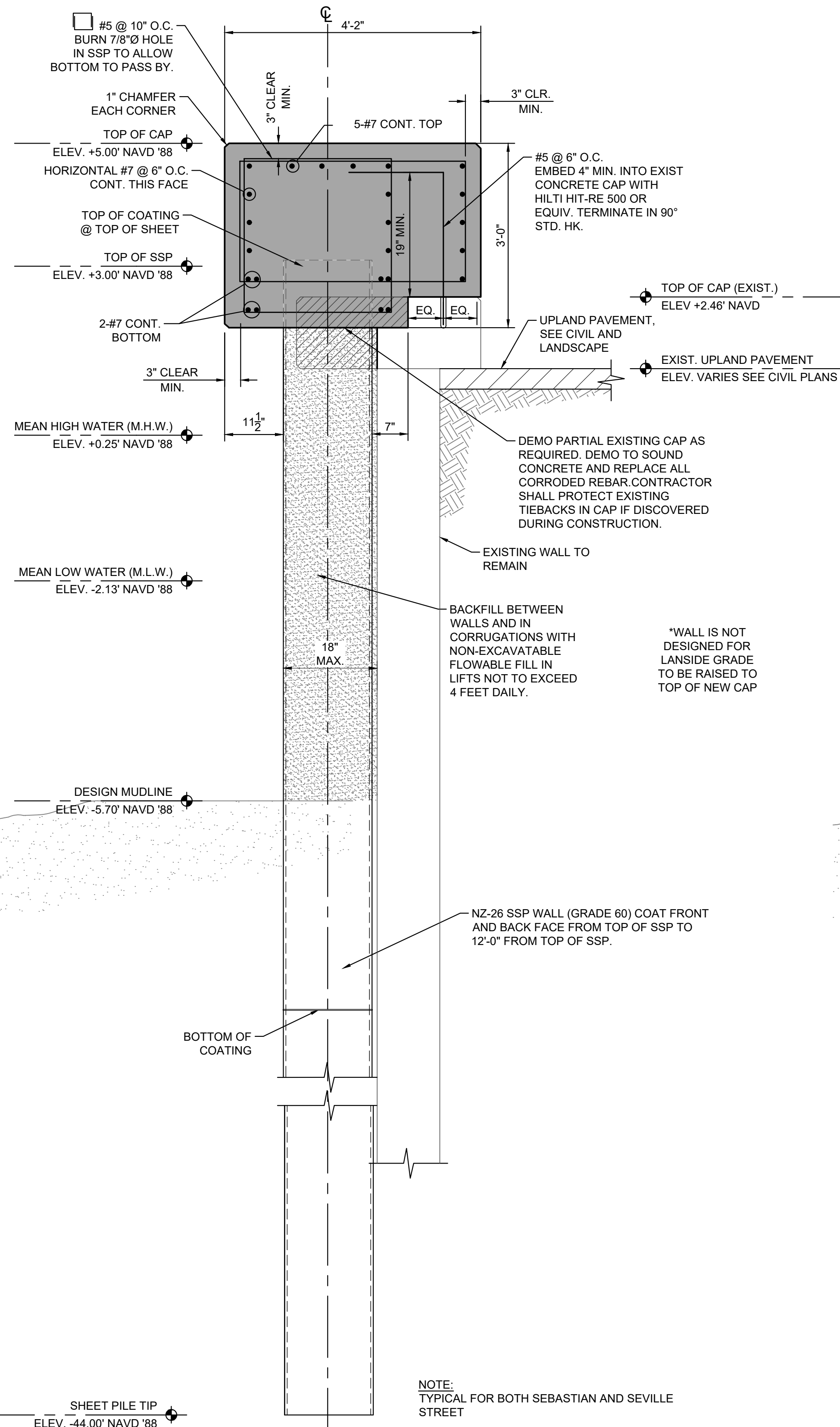
SHEET NO. **S07**

TOTAL: 11

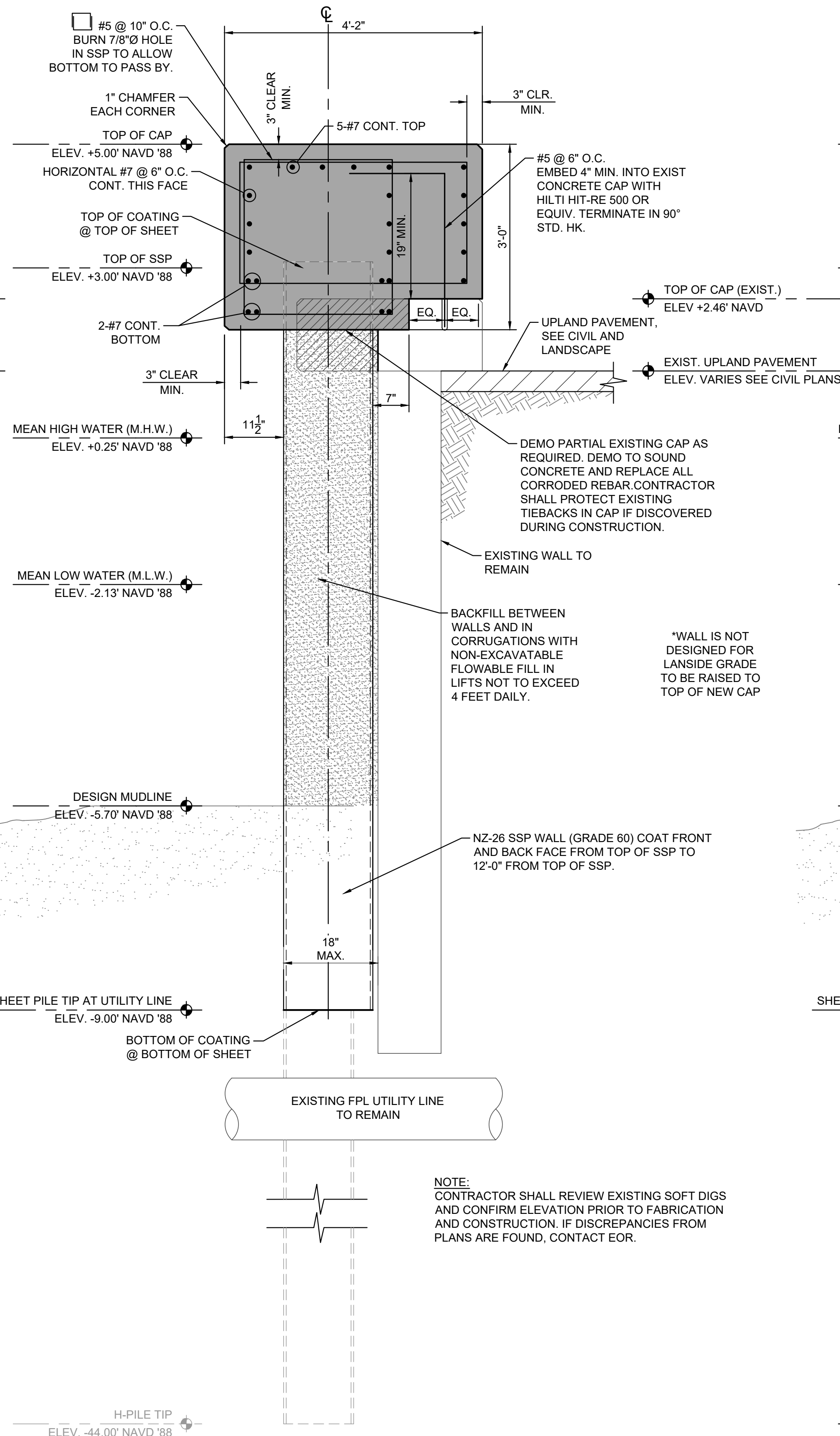
CAD FILE: 13008-S07-DETL

DRAWING FILE NO. 13008

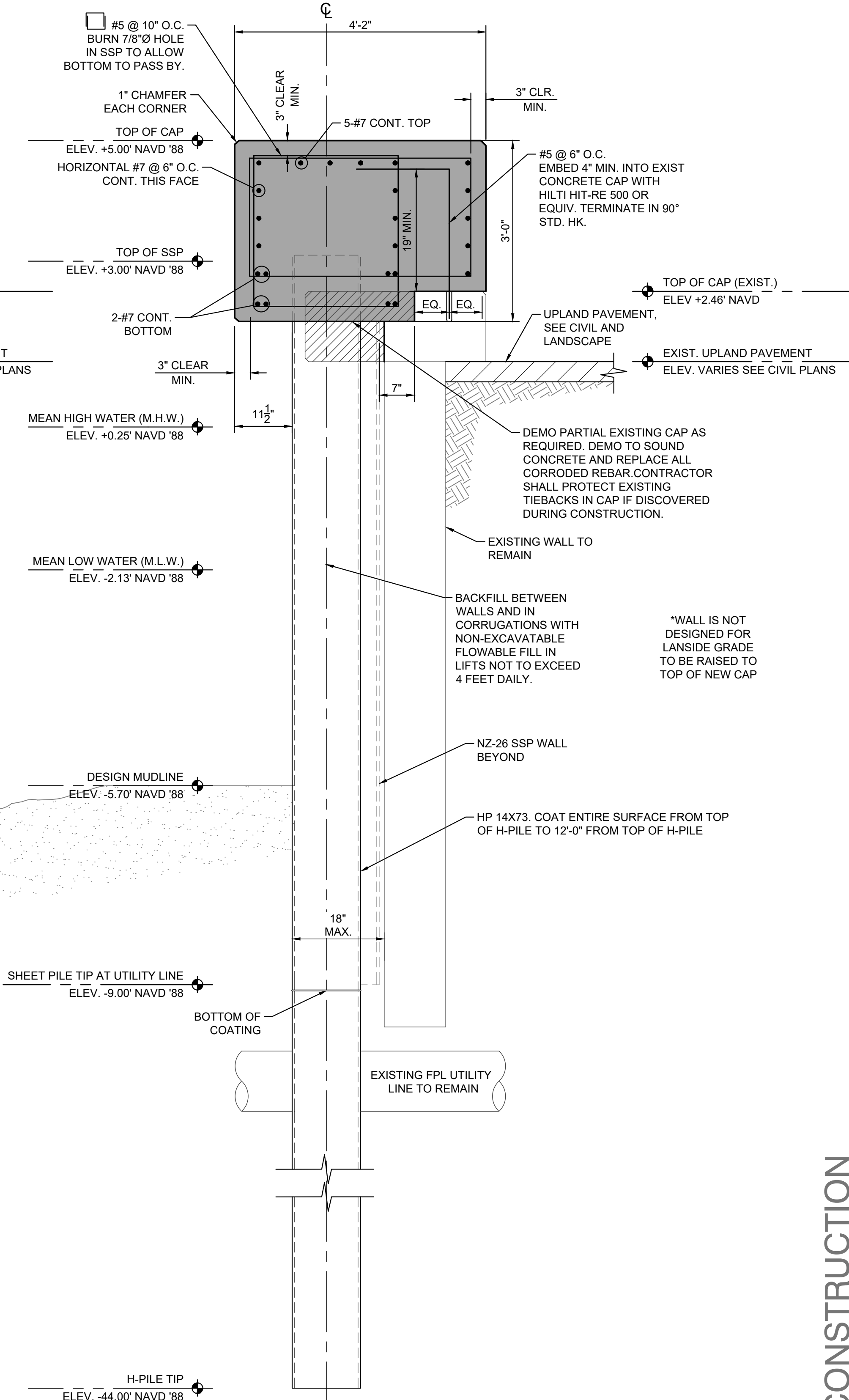
K:\FTL_CIVIL\043 JOBS\043184256 RFQ 12637-421 TO 6 SEAWALL REPLACEMENT\CAD\UPDATED PROJECT #13008\PLANSHEETS\STRUCTURAL\13008-MULTI-DET.DWG



1 TYPICAL BULKHEAD WALL
S08 SCALE: 3/4" = 1'-0"



2 BULKHEAD WALL @ UTILITY LINE (SEVILLE STREET)
S08 SCALE: 3/4" = 1'-0"



3 BULKHEAD WALL @ H-PILE (SEVILLE STREET)
S08 SCALE: 3/4" = 1'-0"

NOTE:
CONTRACTOR SHALL REVIEW EXISTING SOFT DIGS
AND CONFIRM ELEVATION PRIOR TO FABRICATION
AND CONSTRUCTION. IF DISCREPANCIES FROM
PLANS ARE FOUND, CONTACT EOR.

THE PRESENCE OF GROUNDWATER SHOULD BE
ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE
CONSIDERATION FOR ADDRESSING THIS ISSUE AND
OBTAINING ALL NECESSARY PERMITS.



PREPARED BY:
Kimley Horn
© 2025 KIMLEY-HORN AND ASSOCIATES, INC.
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM REGISTRY No. 35106

BID SET NOT FOR CONSTRUCTION

ENGINEER:
JAIMIE GHITTELMAN, P.E.
REG. No. 07473
DATE:

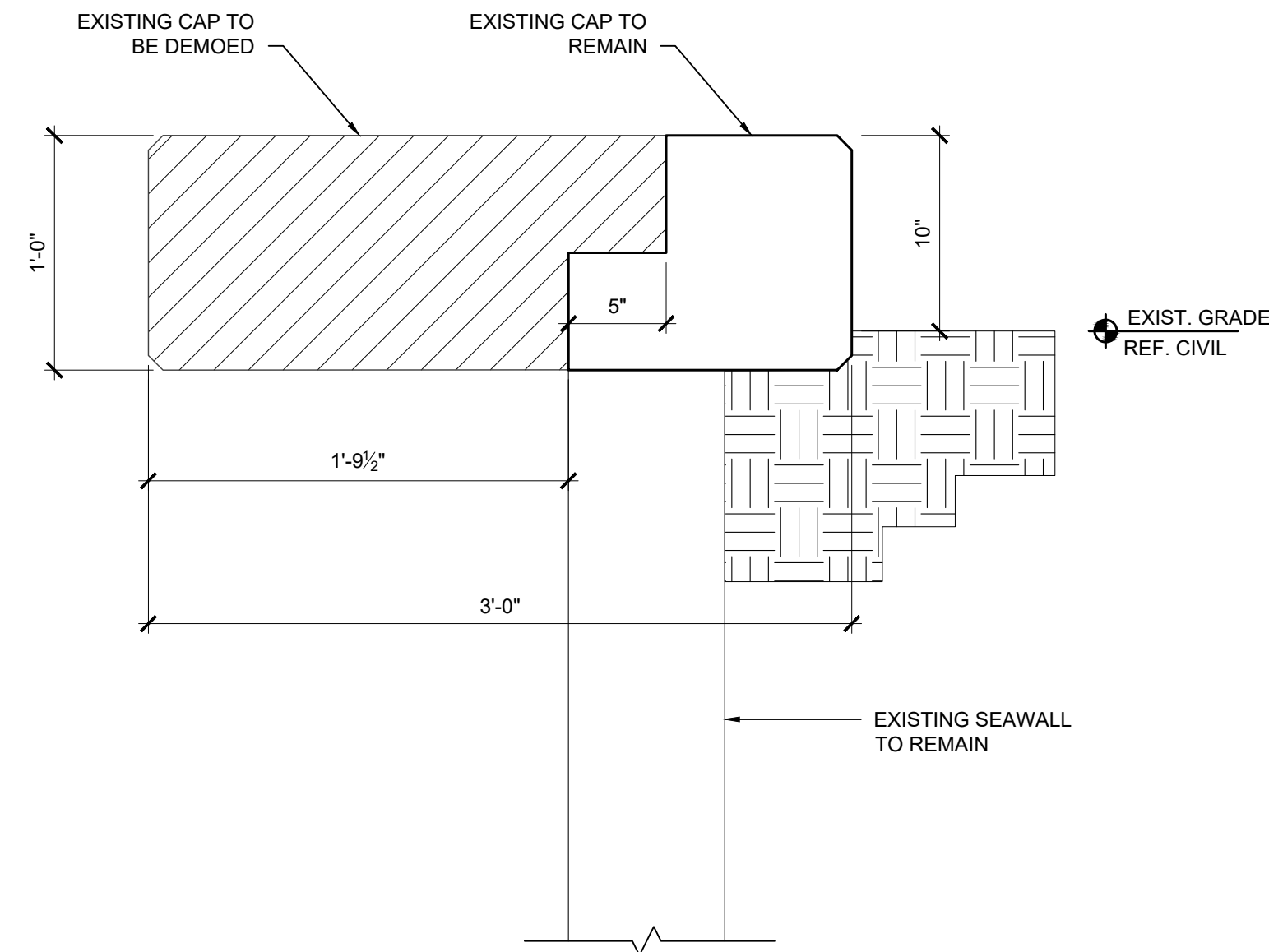
DATE: 9/30/2025
DRAWN BY: ALB
DESIGNED BY: SCALE: AS NOTED
C/S
CHECKED BY: JG
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

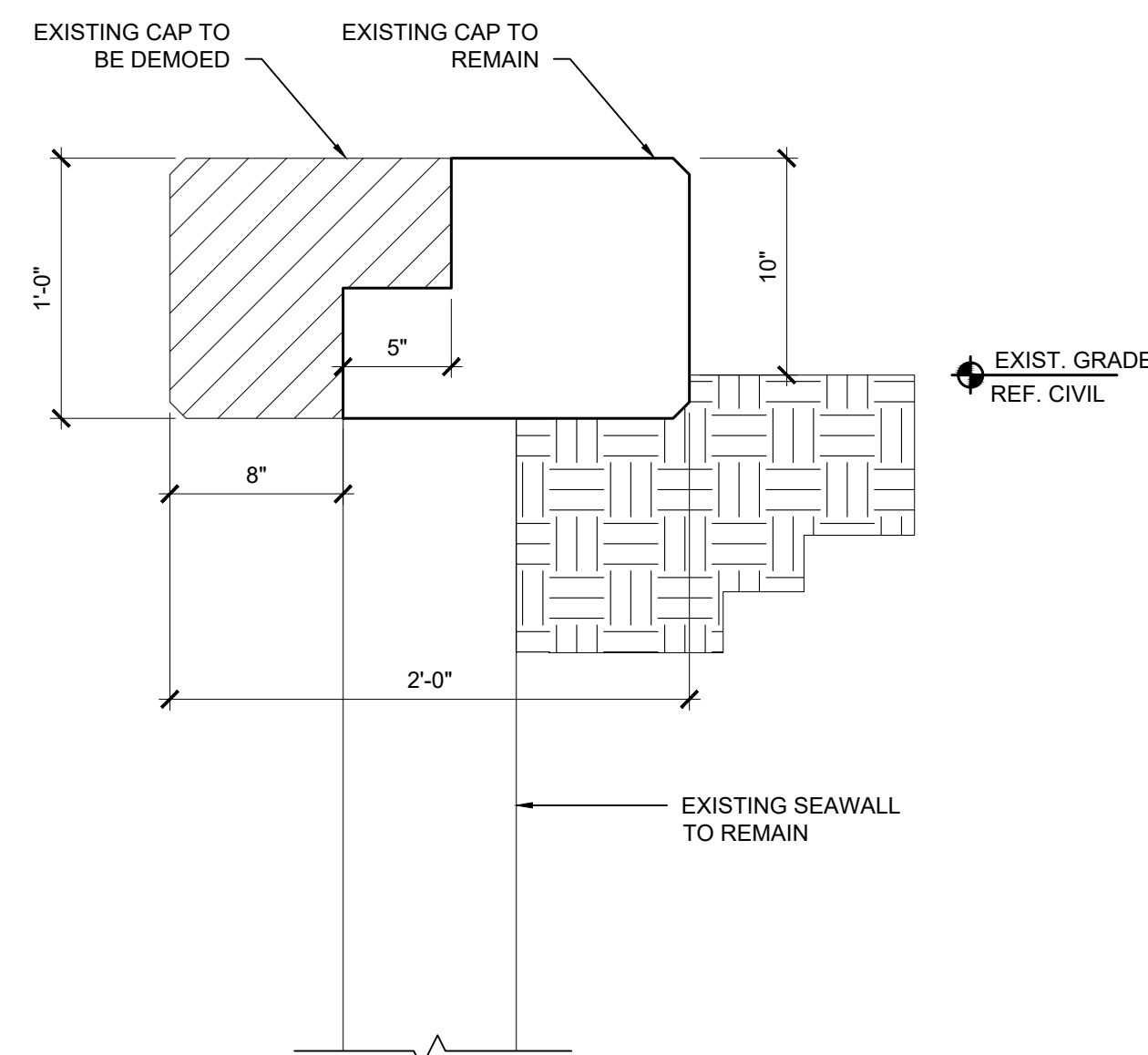
NO.	DATE	BY	CHKD	DESCRIPTION

PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
DETAILS
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO.	S08
TOTAL:	11
CAD FILE:	13008-S08-DET
DRAWING FILE NO.	13008

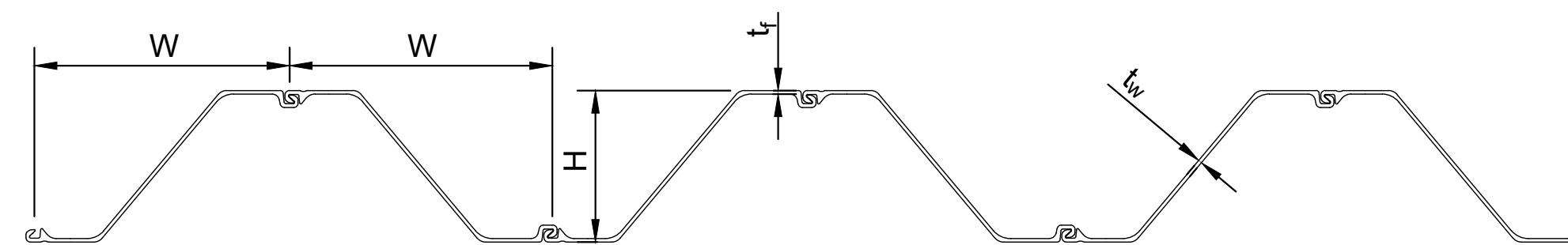


SEVILLE STREET SEAWALL



SEBASTIAN STREET SEAWALL

1 EXIST. SEAWALL DEMO
S09 N.T.S. DESC.



SECTION	Width (W) in	Height (H) in	THICKNESS		Cross Sectional Area in ² /ft	WEIGHT		SECTION MODULUS		Moment of Inertia in ⁴ /ft	COATING AREA	
			Flange(t _f) in	Web(t _w) in		Pile lb/ft	Wall lb/ft ³	Elastic in ³ /ft	Plastic in ³ /ft		Both Sides ft ² /ft of single	Wall Surface ft ² /ft ²
NZ 26	27.56	17.32	0.500	0.500	9.08	71.00	30.99	48.50	57.01	419.90	6.49	1.41

2 TYPICAL WALL SECTION
S09 N.T.S. DESC.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.



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 WWW.KIMLEY-HORN.COM REGISTRY No. 35106

BID SET NOT FOR CONSTRUCTION

ENGINEER:
 JAIME GHITELMAN, P.E.
 REG. No. 87473
 DATE:

DATE: 9/30/2025
 DRAWN BY: ALB
 DESIGNED BY: CTS
 CHECKED BY: JG
 SCALE: AS NOTED
 FIELD BOOK:

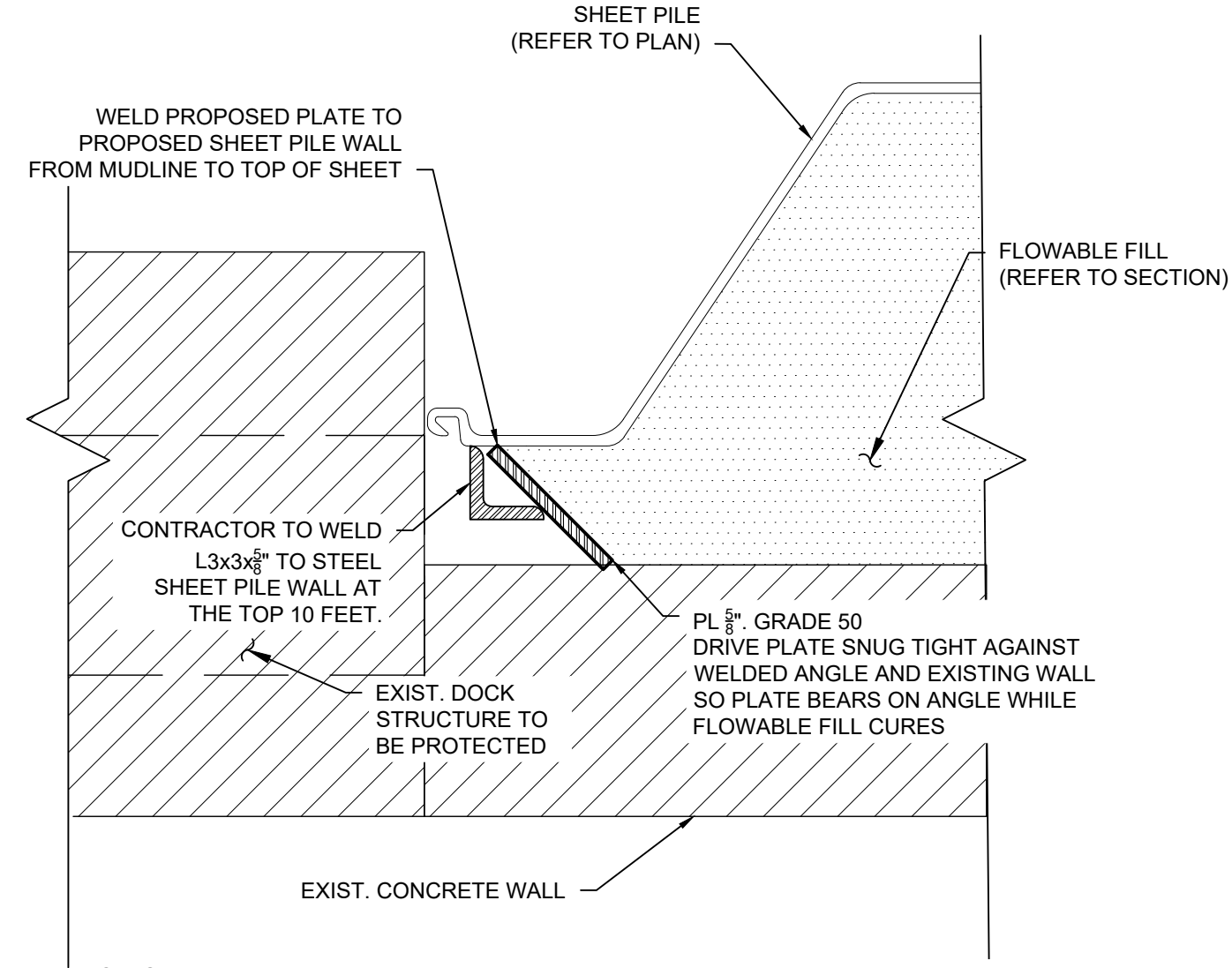
CITY OF FORT LAUDERDALE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING & ARCHITECTURE
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHKD	REVISIONS	
				DESCRIPTION	

PROJECT # 13008
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 DETAILS
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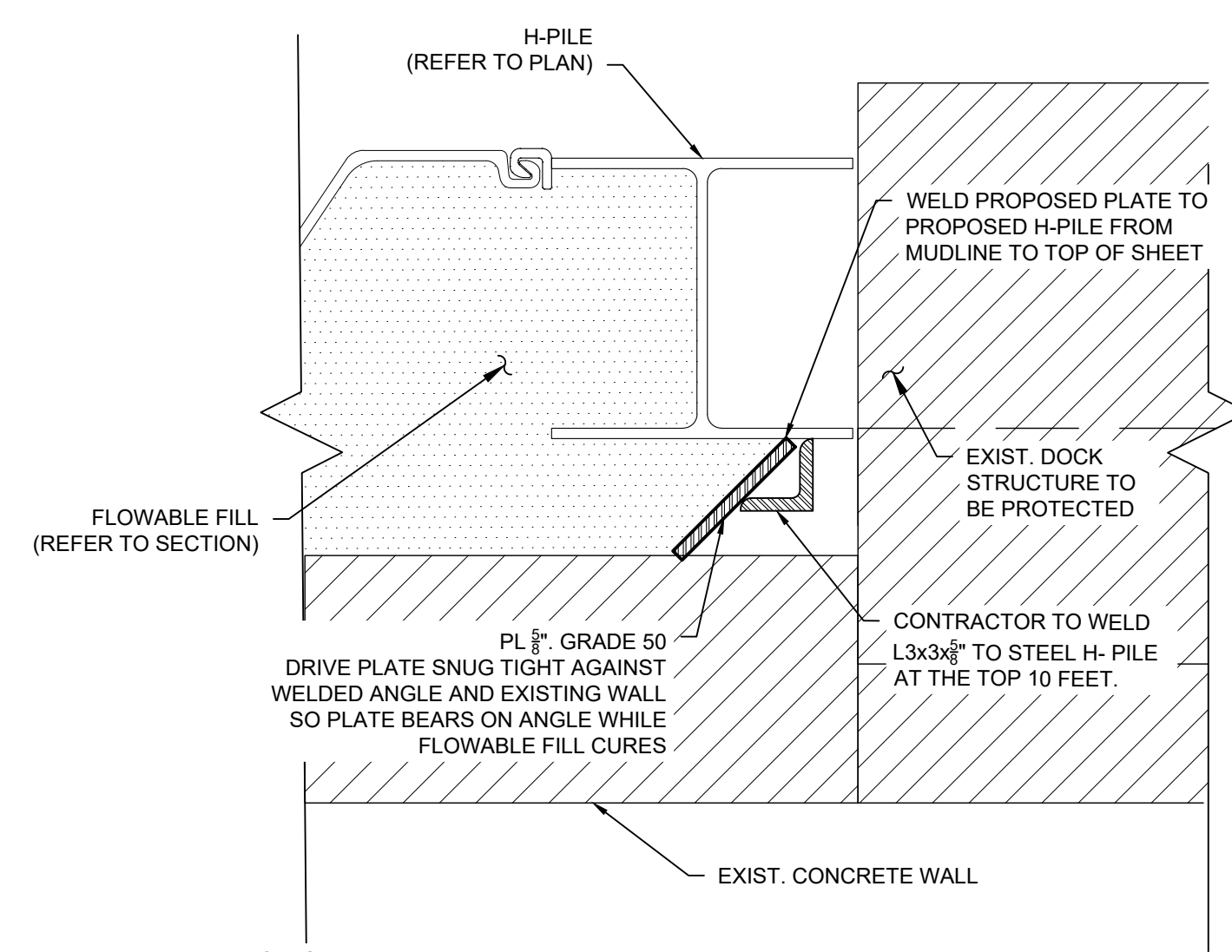
SHEET NO.
S09
 TOTAL: 11
 CAD FILE:
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K:\FTL_CIVIL\043_JOBS\043184256_RFQ_12637-421 TO 6 SEAWALL REPLACEMENT\CAD\UPDATED PROJECT #13008\PLANSHEETS\STRUCTURAL\13008-MULTI-DETL.DWG



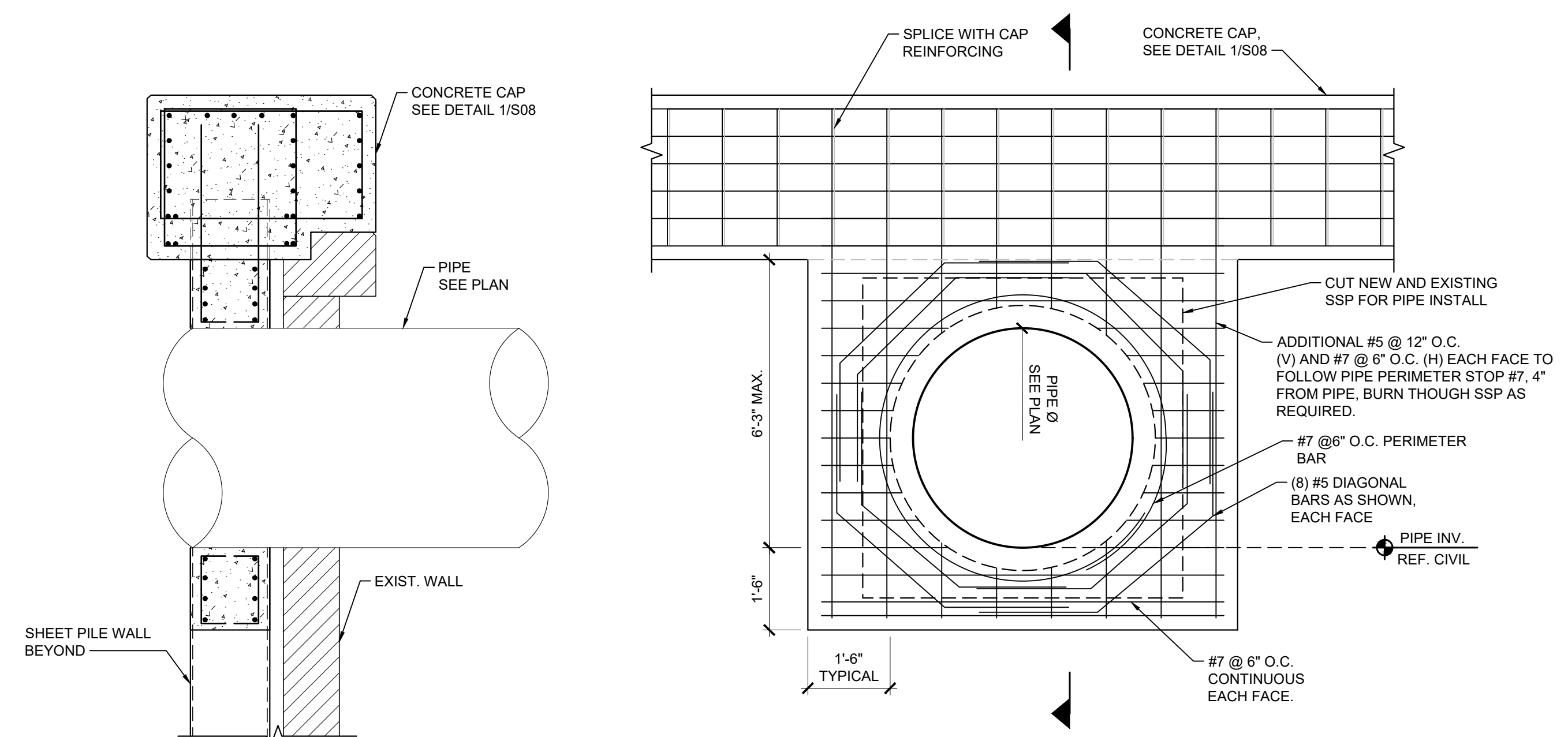
- NOTES:
1. CONTRACTOR TO DRIVE PROPOSED PLATE AS TO AVOID LEAKAGE OF FLOWABLE FILL OUTSIDE PROPOSED WALL EXTENTS.
 2. AT CONTRACTORS OPTION, ALTERNATIVE CLOSURE POUR DETAILS MAY BE PROPOSED TO THE ENGINEER OF RECORD DURING CONSTRUCTION.

1A SEAWALL CLOSURE
S10 N.T.S.

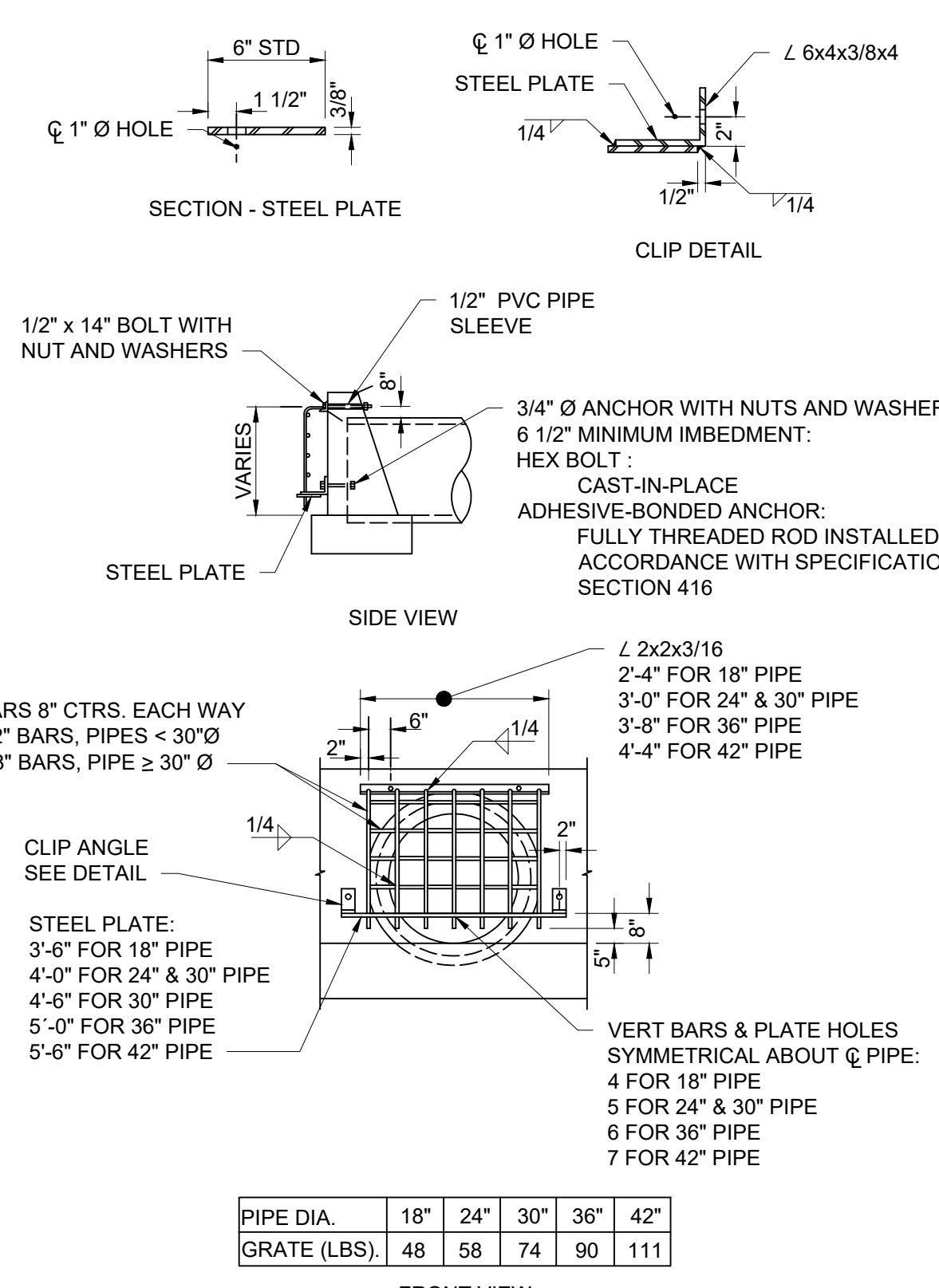


- NOTES:
1. CONTRACTOR TO DRIVE PROPOSED PLATE AS TO AVOID LEAKAGE OF FLOWABLE FILL OUTSIDE PROPOSED WALL EXTENTS.
 2. AT CONTRACTORS OPTION, ALTERNATIVE CLOSURE POUR DETAILS MAY BE PROPOSED TO THE ENGINEER OF RECORD DURING CONSTRUCTION.

1B SEAWALL CLOSURE
S10 N.T.S.

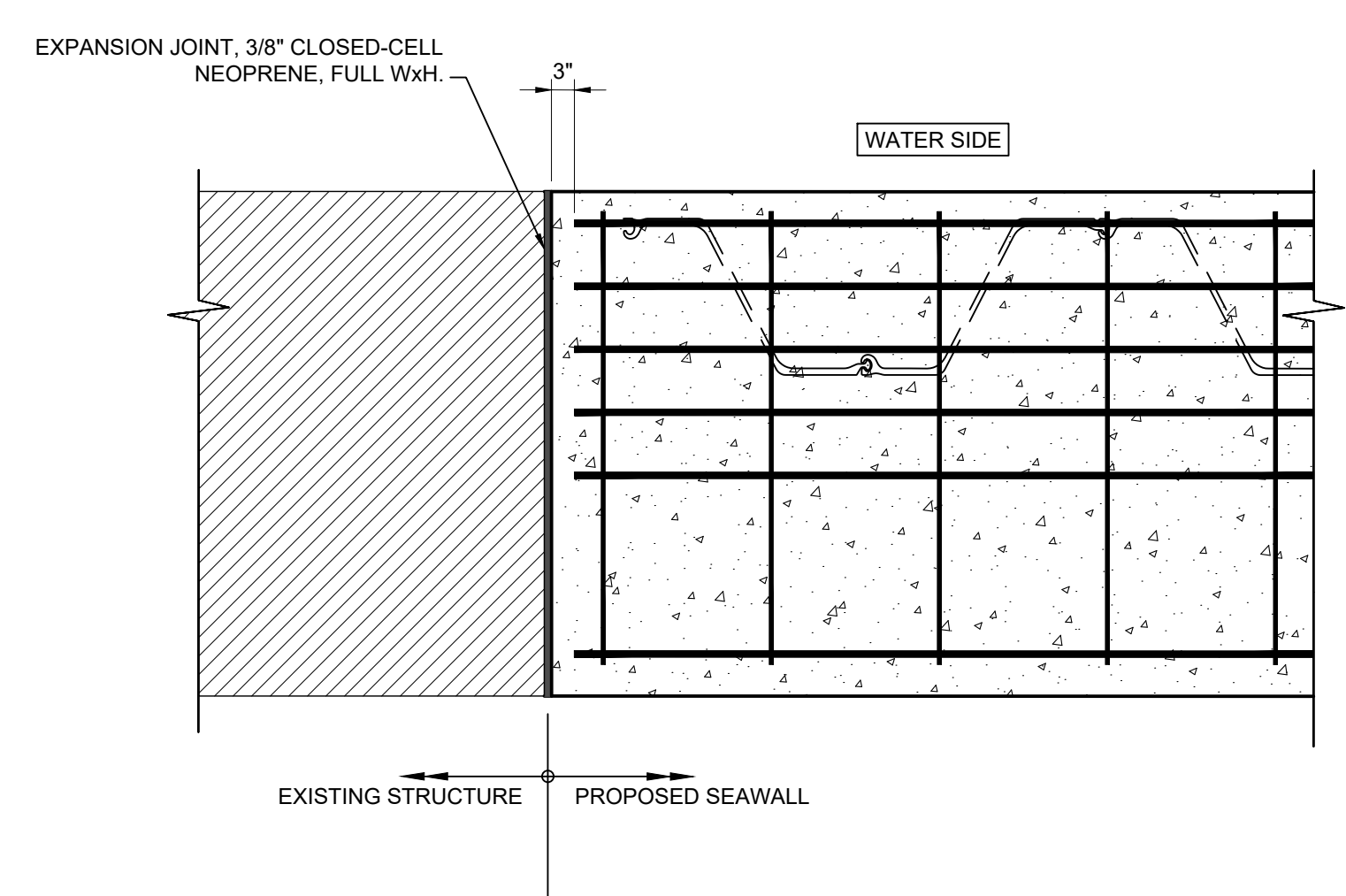


2 PIPE PENETRATION
S10 N.T.S.



- NOTE:
1. GUARDS TO BE CONSTRUCTED ONLY AT LOCATIONS SPECIFICALLY CALLED FOR IN PLANS.
 2. CONTRACTOR TO VERIFY DETAIL IS PER CURRENT CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS MANATEE GRATE STRM 013 PRIOR TO SUBMISSION OF BID.

3 MANATEE GRATE
S10 N.T.S.



4 EXPANSION JOINT
S10 N.T.S.

ENGINEER: JAMIE CHITTMAN, P.E.
REC. No: 07473
DATE:

DRAWN BY: ALB
DATE: 9/30/2025
DESIGNED BY: CTS
SCALE: AS NOTED
CHECKED BY: JG
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY	DESCRIPTION

PROJECT # 13008
SEBASTIAN AND SEVILLE
SEAWALL REPLACEMENT
DETAILS
SEBASTIAN ST/SEVILLE ST & N. BIRCH RD.

SHEET NO.	S10
TOTAL:	11
CAD FILE:	13008-S10-DETL
DRAWING FILE NO.	13008



THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE NAVD 88. TO CONVERT ELEVATIONS TO NGVD 29, ADD 1.58'

PREPARED BY:
Kimley Horn
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PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM REGISTRY No. 35106

BID SET NOT FOR CONSTRUCTION

Executive Summary Report

of

Event: 550-2 - Sebastian and Seville Seawall Replacement

Buyer: SANTRECIA HARDEN

Date Range: 01/08/2026 02:00:00 PM - 02/12/2026
02:00:00 PM

Suppliers Notified: 377

Notified Suppliers 1
Responding:

All Suppliers 5
Responding:

Suppliers Responding

Supplier	Contact	Phone Number	E Mail	City	State Or Province	Total Bid Amount	Total Awarded	Response Attachment Exists
David Mancini & Sons, Inc	Fabio Angarita	9549773556	bids@dmsi.co	Pompano Beach	FL	2,375,982.00	0.00	Yes
CMG Pipelines, Inc.	Taylor Morris	5047666146	taylor.morris@cmgpipe lines.com	Kenner	LA	2,291,236.50	0.00	Yes
Lambert Bros., Inc.	Gregg Lambert	4919380	gl@lambertbros.net	Fort Lauderdale	FL	3,182,726.00	0.00	Yes
YC Group, LLC	Yohei Castro	3055883431	ycastro@ycgroupllc.co m	West Palm Beach	FL	1,536,276.03	0.00	Yes
ITG Communications LLC	Paul Dave Gonzales	305-498- 9320	paul.gonzales@itgcom m.com	Hallandale	FL	1,556,108.98	0.00	No

Event Lines And Responses

continued...

Item	Description	Unit of Measure	Quantity
MOBILIZATION-	Lump sum pay item for all mobilization for the construction of two (2) new steel sheet pile walls and upland improvements as shown on the contract plans. Mobilization will be paid at the following rates: a. 10% of contract completion - 25% of Mobilization. b. 25% of contract completion - 50% of Mobilization. c. 50% of contract completion - 100% of Mobilization.	LS	1.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1.0000	LS	409,601.000	0.00
CMG Pipelines, Inc.	1.0000	LS	314,059.750	0.00
Lambert Bros., Inc.	1.0000	LS	578,000.000	0.00
YC Group, LLC	1.0000	LS	207,264.950	0.00
ITG Communications LLC	1.0000	LS	131,832.630	0.00

Item	Description	Unit of Measure	Quantity
MAINTENANCE OF TRAFFIC (MOT)-	Lump sum pay item for a Maintenance of Traffic (MOT) and includes all pedestrian access maintenance. All crosswalks and sidewalks shall remain open and free of obstructions. Temporary painting for roadways and crosswalks shall be maintained throughout the project. Costs shall include the use of flagmen. Contractor to prepare and submit for review a MOT Plan per phase of construction. The MOT plan shall be prepared by an FOOT certified individual. No work shall begin until the MOT plan has been approved by the City of Fort Lauderdale.	LS	1.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1.0000	LS	15,485.000	0.00
CMG Pipelines, Inc.	1.0000	LS	21,750.000	0.00

continued...

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
Lambert Bros., Inc.	1.0000	LS	12,200.000	0.00
YC Group, LLC	1.0000	LS	35,000.000	0.00
ITG Communications LLC	1.0000	LS	19,774.890	0.00

Item	Description	Unit of Measure	Quantity
CLEARING AND GRUBBING-	Lump sum pay item which includes all labor, materials, and equipment required for clearing and grubbing within project limits to facilitate seawall replacements, the replacement of existing drainage pipes and structures, and curb replacements. Work includes removal and disposal of vegetation, roots, and debris, as well as site preparation for construction access. All operations shall comply with project plans, specifications, and applicable regulations.	LS	1.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1.0000	LS	83,054.000	0.00
CMG Pipelines, Inc.	1.0000	LS	9,708.000	0.00
Lambert Bros., Inc.	1.0000	LS	88,500.000	0.00
YC Group, LLC	1.0000	LS	45,000.000	0.00
ITG Communications LLC	1.0000	LS	21,723.030	0.00

Item	Description	Unit of Measure	Quantity
TURBIDITY BARRIER/PROTECTION OF-	Lump sum pay item include a complete stormwater pollution prevention plan (SWPPP). Notice of Intent fees and compliance with any SWPPP reporting. Include furnishing, installation, maintenance, and removal of items, such as turbidity barriers/protection of waterway. Includes the maintenance and removal of the shoreside inlet sediment barriers.	LS	1.0000

continued...

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1.0000	LS	7,152.000	0.00
CMG Pipelines, Inc.	1.0000	LS	24,208.000	0.00
Lambert Bros., Inc.	1.0000	LS	7,800.000	0.00
YC Group, LLC	1.0000	LS	33,256.000	0.00
ITG Communications LLC	1.0000	LS	11,073.940	0.00

Item	Description	Unit of Measure	Quantity
VIBRATION MONITORING OF EXISTING-	Includes the coordination of a third party inspector for monitoring of existing structures as shown on the Contract Plans.	MO	8.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	8.0000	MO	3,743.000	0.00
CMG Pipelines, Inc.	8.0000	MO	14,500.000	0.00
Lambert Bros., Inc.	8.0000	MO	163,000.000	0.00
YC Group, LLC	8.0000	MO	4,800.000	0.00
ITG Communications LLC	8.0000	MO	5,800.640	0.00

Item	Description	Unit of Measure	Quantity
AS-BUILTS (PROVIDED BY CONTRACTO-	Lump sum pay item which includes the preparation and submission of signed and sealed paving, grading, and drainage (PGD) and structural as-builts, prepared by a Florida registered surveyor, verifying all design information included on the design plans and accurately reflecting all field changes to the streets, seawalls, and stormwater systems.	EA	1.0000

continued...

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1.0000	EA	41,585.000	0.00
CMG Pipelines, Inc.	1.0000	EA	36,250.000	0.00
Lambert Bros., Inc.	1.0000	EA	33,400.000	0.00
YC Group, LLC	1.0000	EA	20,000.000	0.00
ITG Communications LLC	1.0000	EA	16,500.000	0.00

Item	Description	Unit of Measure	Quantity
INLET SEDIMENT BARRIER - SEVILLE-	The unit price for the furnishing and installation of the shore side inlet sediment barriers.	EA	6.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	6.0000	EA	202.000	0.00
CMG Pipelines, Inc.	6.0000	EA	541.250	0.00
Lambert Bros., Inc.	6.0000	EA	216.000	0.00
YC Group, LLC	6.0000	EA	450.000	0.00
ITG Communications LLC	6.0000	EA	158.200	0.00

Item	Description	Unit of Measure	Quantity
CURB REMOVAL - SEVILLE STREET-	Includes the removal and disposal of existing concrete curb and base material necessary to prepare the area for the proposed curb construction. Any site areas impacted by the contractor outside of proposed concrete work, such as asphalt overlay, pavement markings, etc., will be restored by the contractor at no additional cost to the City.	LF	55.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	55.0000	LF	60.000	0.00

continued...

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
CMG Pipelines, Inc.	55.0000	LF	101.500	0.00
Lambert Bros., Inc.	55.0000	LF	17.000	0.00
YC Group, LLC	55.0000	LF	15.000	0.00
ITG Communications LLC	55.0000	LF	92.430	0.00

Item	Description	Unit of Measure	Quantity
MILL AND RESURFACING, 1" AVG. DE-	Include milling the existing asphalt surface to an average depth of 1 inch and resurfacing with new asphalt pavement, including all labor, materials, equipment, and disposal of milled material. Work shall be performed in accordance with project specifications and shall ensure smooth transitions to adjacent surfaces and structures. All areas shall be cleaned, tack-coated, and resurfaced to restore proper grade and surface quality. Includes trench restoration including first lift of asphalt, second lift.	SY	505.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	505.0000	SY	67.000	0.00
CMG Pipelines, Inc.	505.0000	SY	102.000	0.00
Lambert Bros., Inc.	505.0000	SY	41.000	0.00
YC Group, LLC	505.0000	SY	22.500	0.00
ITG Communications LLC	505.0000	SY	73.610	0.00

Item	Description	Unit of Measure	Quantity
CONCRETE CURB - SEVILLE STREET-	Includes all cost to install curbs and corresponding required base and subgrade. Any site areas impacted by the contractor outside of proposed concrete work, such as asphalt overlay, pavement markings, etc., will be restored by the contractor at no additional cost to the City.	LF	55.0000

continued...

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	55.0000	LF	142.000	0.00
CMG Pipelines, Inc.	55.0000	LF	666.500	0.00
Lambert Bros., Inc.	55.0000	LF	60.000	0.00
YC Group, LLC	55.0000	LF	27.000	0.00
ITG Communications LLC	55.0000	LF	174.300	0.00

Item	Description	Unit of Measure	Quantity
REFLECTIVE PAVEMENT MARKERS (RPM-	Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMs). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.	EA	4.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	4.0000	EA	12.000	0.00
CMG Pipelines, Inc.	4.0000	EA	290.000	0.00
Lambert Bros., Inc.	4.0000	EA	13.500	0.00
YC Group, LLC	4.0000	EA	75.000	0.00
ITG Communications LLC	4.0000	EA	75.000	0.00

continued...

Item	Description	Unit of Measure	Quantity
THERMOPLASTIC, STANDARD, SOLID 6-	Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMs). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.	LF	100.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	100.0000	LF	33.000	0.00
CMG Pipelines, Inc.	100.0000	LF	14.500	0.00
Lambert Bros., Inc.	100.0000	LF	4.000	0.00
YC Group, LLC	100.0000	LF	28.500	0.00
ITG Communications LLC	100.0000	LF	7.910	0.00

Item	Description	Unit of Measure	Quantity
THERMOPLASTIC, STANDARD, SOLID 2-	Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMs). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.	LF	18.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	18.0000	LF	178.000	0.00
CMG Pipelines, Inc.	18.0000	LF	217.500	0.00
Lambert Bros., Inc.	18.0000	LF	18.000	0.00
YC Group, LLC	18.0000	LF	55.000	0.00

continued...

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ITG Communications LLC	18.0000	LF	15.820	0.00

Item	Description	Unit of Measure	Quantity
SINGLE POST SIGN, INSTALL - SEVI-	Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMs). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.	EA	4.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	4.0000	EA	666.000	0.00
CMG Pipelines, Inc.	4.0000	EA	2,175.000	0.00
Lambert Bros., Inc.	4.0000	EA	8.000	0.00
YC Group, LLC	4.0000	EA	950.000	0.00
ITG Communications LLC	4.0000	EA	875.000	0.00

Item	Description	Unit of Measure	Quantity
TYPE 9 INLET - SEVILLE STREET-	Include all costs associated with installing inlets, catch basins, and manhole structures, and their corresponding pipe connections per the plans. These Bid Items shall include all associated excavation, protection of trench, management of excavated material, backfill and compaction, new fill, testing, and adjusting new manhole/utility covers per the plans and details.	EA	2.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	2.0000	EA	8,110.000	0.00

continued...

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
CMG Pipelines, Inc.	2.0000	EA	22,315.750	0.00
Lambert Bros., Inc.	2.0000	EA	6,600.000	0.00
YC Group, LLC	2.0000	EA	4,750.000	0.00
ITG Communications LLC	2.0000	EA	9,390.120	0.00

Item	Description	Unit of Measure	Quantity
CATCH BASIN - SEVILLE STREET-	Include all costs associated with installing inlets, catch basins, and manhole structures, and their corresponding pipe connections per the plans. These Bid Items shall include all associated excavation, protection of trench, management of excavated material, backfill and compaction, new fill, testing, and adjusting new manhole/utility covers per the plans and details.	EA	2.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	2.0000	EA	10,960.000	0.00
CMG Pipelines, Inc.	2.0000	EA	22,315.750	0.00
Lambert Bros., Inc.	2.0000	EA	8,950.000	0.00
YC Group, LLC	2.0000	EA	5,200.000	0.00
ITG Communications LLC	2.0000	EA	12,055.590	0.00

Item	Description	Unit of Measure	Quantity
DRAINAGE MANHOLE - SEVILLE STREE-	Include all costs associated with installing inlets, catch basins, and manhole structures, and their corresponding pipe connections per the plans. These Bid Items shall include all associated excavation, protection of trench, management of excavated material, backfill and compaction, new fill, testing, and adjusting new manhole/utility covers per the plans and details.	EA	2.0000

continued...

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	2.0000	EA	16,512.000	0.00
CMG Pipelines, Inc.	2.0000	EA	23,040.750	0.00
Lambert Bros., Inc.	2.0000	EA	14,000.000	0.00
YC Group, LLC	2.0000	EA	8,550.000	0.00
ITG Communications LLC	2.0000	EA	16,196.760	0.00

Item	Description	Unit of Measure	Quantity
18" HIGH-PERFORMANCE POLYPROPYLE-	Include all costs associated with installing pipe, trench excavation, protection of trench, use of trench box, management of excavated material, new lime rock and subbase as needed, complete trench backfills and compaction, testing, repair/replacement of site damage such as curbing, drop curb, and sidewalk impacted by construction per the plans and details. Trench restoration including first lift of asphalt, second lift to be included with mill & resurface bid items 9 and 26.	LF	110.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	110.0000	LF	313.000	0.00
CMG Pipelines, Inc.	110.0000	LF	364.250	0.00
Lambert Bros., Inc.	110.0000	LF	285.000	0.00
YC Group, LLC	110.0000	LF	95.000	0.00
ITG Communications LLC	110.0000	LF	248.870	0.00

continued...

Item	Description	Unit of Measure	Quantity
36" HIGH-PERFORMANCE POLYPROPYLE-	Include all costs associated with installing pipe, trench excavation, protection of trench, use of trench box, management of excavated material, new lime rock and subbase as needed, complete trench backfills and compaction, testing, repair/replacement of site damage such as curbing, drop curb, and sidewalk impacted by construction per the plans and details. Trench restoration including first lift of asphalt, second lift to be included with mill & resurface bid items 9 and 26.	LF	130.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	130.0000	LF	472.000	0.00
CMG Pipelines, Inc.	130.0000	LF	505.500	0.00
Lambert Bros., Inc.	130.0000	LF	960.000	0.00
YC Group, LLC	130.0000	LF	155.000	0.00
ITG Communications LLC	130.0000	LF	434.460	0.00

Item	Description	Unit of Measure	Quantity
OUTFALL - SEVILLE STREET-	Includes procurement of all materials for the full installation of the outfall through the sheet pile walls, the procurement and full installation of the manatee grates at the outfall locations, and all other requirements associated with these items in accordance with the Contract Plans and City details.	EA	2.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	2.0000	EA	9,945.000	0.00
CMG Pipelines, Inc.	2.0000	EA	29,123.750	0.00
Lambert Bros., Inc.	2.0000	EA	8,300.000	0.00
YC Group, LLC	2.0000	EA	6,750.000	0.00

continued...

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ITG Communications LLC	2.0000	EA	4,460.690	0.00

Item	Description	Unit of Measure	Quantity
WAPRO INLINE CHECK VALVE 36" - S-	Includes all costs associated with the Inline Check Valves and their installations, as shown in the plans and per City details.	EA	1.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1.0000	EA	43,863.000	0.00
CMG Pipelines, Inc.	1.0000	EA	7,987.500	0.00
Lambert Bros., Inc.	1.0000	EA	30,400.000	0.00
YC Group, LLC	1.0000	EA	21,500.000	0.00
ITG Communications LLC	1.0000	EA	39,351.970	0.00

Item	Description	Unit of Measure	Quantity
WAPRO INLINE CHECK VALVE 18" - S-	Includes all costs associated with the Inline Check Valves and their installations, as shown in the plans and per City details.	EA	1.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1.0000	EA	20,832.000	0.00
CMG Pipelines, Inc.	1.0000	EA	7,262.500	0.00
Lambert Bros., Inc.	1.0000	EA	12,300.000	0.00
YC Group, LLC	1.0000	EA	7,500.000	0.00
ITG Communications LLC	1.0000	EA	19,381.430	0.00

continued...

Item	Description	Unit of Measure	Quantity
MANATEE GRATE - SEVILLE STREET-	Includes procurement of all materials for the full installation of the outfall through the sheet pile walls, the procurement and full installation of the manatee grates at the outfall locations, and all other requirements associated with these items in accordance with the Contract Plans and City details.	EA	2.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	2.0000	EA	7,736.000	0.00
CMG Pipelines, Inc.	2.0000	EA	4,964.500	0.00
Lambert Bros., Inc.	2.0000	EA	2,200.000	0.00
YC Group, LLC	2.0000	EA	4,750.000	0.00
ITG Communications LLC	2.0000	EA	3,917.110	0.00

Item	Description	Unit of Measure	Quantity
DEMOLITION OF SEVILLE STREET EXI-	Include procurement of all materials and labor for the full installation of sheet pile walls, concrete caps, reinforcement, and all other requirements in accordance with the Contract Plans. This also includes the demolition and removal of existing seawall caps and battered piles, and the contractor shall include costs of all required third-party testing as part of the installation cost.	LS	1.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1.0000	LS	25,251.000	0.00
CMG Pipelines, Inc.	1.0000	LS	39,556.500	0.00
Lambert Bros., Inc.	1.0000	LS	25,000.000	0.00
YC Group, LLC	1.0000	LS	53,750.000	0.00
ITG Communications LLC	1.0000	LS	56,028.870	0.00

continued...

Item	Description	Unit of Measure	Quantity
SEVILLE STREET CONCRETE CAP-	Include procurement of all materials and labor for the full installation of sheet pile walls, concrete caps, reinforcement, and all other requirements in accordance with the Contract Plans. This also includes the demolition and removal of existing seawall caps and battered piles, and the contractor shall include costs of all required third-party testing as part of the installation cost.	LS	1.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1.0000	LS	99,804.000	0.00
CMG Pipelines, Inc.	1.0000	LS	94,118.500	0.00
Lambert Bros., Inc.	1.0000	LS	39,500.000	0.00
YC Group, LLC	1.0000	LS	61,250.000	0.00
ITG Communications LLC	1.0000	LS	36,253.970	0.00

Item	Description	Unit of Measure	Quantity
SEVILLE STREET - PIPE PENETRATIO-	Include procurement of all materials and labor for the full installation of sheet pile walls, concrete caps, reinforcement, and all other requirements in accordance with the Contract Plans. This also includes the demolition and removal of existing seawall caps and battered piles, and the contractor shall include costs of all required third-party testing as part of the installation cost. Includes trench restoration including first lift of asphalt, second lift.	EA	2.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	2.0000	EA	12,887.000	0.00
CMG Pipelines, Inc.	2.0000	EA	7,398.500	0.00
Lambert Bros., Inc.	2.0000	EA	5,900.000	0.00
YC Group, LLC	2.0000	EA	10,000.000	0.00

continued...

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ITG Communications LLC	2.0000	EA	6,591.630	0.00

Item	Description	Unit of Measure	Quantity
SEVILLE STREET SHEET PILE WALL F-	Include procurement of all materials and labor for the full installation of sheet pile walls, concrete caps, reinforcement, and all other requirements in accordance with the Contract Plans. This also includes the demolition and removal of existing seawall caps and battered piles, and the contractor shall include costs of all required third-party testing as part of the installation cost.	LS	1.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1.0000	LS	409,920.000	0.00
CMG Pipelines, Inc.	1.0000	LS	247,687.000	0.00
Lambert Bros., Inc.	1.0000	LS	207,400.000	0.00
YC Group, LLC	1.0000	LS	288,156.290	0.00
ITG Communications LLC	1.0000	LS	253,777.820	0.00

Item	Description	Unit of Measure	Quantity
INLET SEDIMENT BARRIER - SEBASTI-	The unit price for the furnishing and installation of the shore side inlet sediment barriers.	EA	7.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	7.0000	EA	199.000	0.00
CMG Pipelines, Inc.	7.0000	EA	633.750	0.00
Lambert Bros., Inc.	7.0000	EA	216.000	0.00
YC Group, LLC	7.0000	EA	450.000	0.00

continued...

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ITG Communications LLC	7.0000	EA	165.250	0.00

Item	Description	Unit of Measure	Quantity
CURB REMOVAL - SEBASTIAN STREET-	Includes the removal and disposal of existing concrete curb and base material necessary to prepare the area for the proposed curb construction. Any site areas impacted by the contractor outside of proposed concrete work, such as asphalt overlay, pavement markings, etc., will be restored by the contractor at no additional cost to the City.	LF	25.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	25.0000	LF	60.000	0.00
CMG Pipelines, Inc.	25.0000	LF	106.750	0.00
Lambert Bros., Inc.	25.0000	LF	29.200	0.00
YC Group, LLC	25.0000	LF	15.000	0.00
ITG Communications LLC	25.0000	LF	98.890	0.00

Item	Description	Unit of Measure	Quantity
MILL AND RESURFACING, 1" AVG. DE-	Include milling the existing asphalt surface to an average depth of 1 inch and resurfacing with new asphalt pavement, including all labor, materials, equipment, and disposal of milled material. Work shall be performed in accordance with project specifications and shall ensure smooth transitions to adjacent surfaces and structures. All areas shall be cleaned, tack-coated, and resurfaced to restore proper grade and surface quality.	SY	1,005.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1,005.0000	SY	41.000	0.00

continued...

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
CMG Pipelines, Inc.	1,005.0000	SY	94.750	0.00
Lambert Bros., Inc.	1,005.0000	SY	25.200	0.00
YC Group, LLC	1,005.0000	SY	22.500	0.00
ITG Communications LLC	1,005.0000	SY	64.070	0.00

Item	Description	Unit of Measure	Quantity
CONCRETE CURB - SEBASTIAN STREET-	Includes all cost to install curbs and corresponding required base and subgrade. Any site areas impacted by the contractor outside of proposed concrete work, such as asphalt overlay, pavement markings, etc., will be restored by the contractor at no additional cost to the City.	LF	25.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	25.0000	LF	158.000	0.00
CMG Pipelines, Inc.	25.0000	LF	950.500	0.00
Lambert Bros., Inc.	25.0000	LF	80.000	0.00
YC Group, LLC	25.0000	LF	27.000	0.00
ITG Communications LLC	25.0000	LF	174.300	0.00

Item	Description	Unit of Measure	Quantity
REFLECTIVE PAVEMENT MARKERS (RPM-	Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMs). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.	EA	4.0000

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Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	4.0000	EA	12.000	0.00
CMG Pipelines, Inc.	4.0000	EA	290.000	0.00
Lambert Bros., Inc.	4.0000	EA	13.250	0.00
YC Group, LLC	4.0000	EA	75.000	0.00
ITG Communications LLC	4.0000	EA	65.920	0.00

Item	Description	Unit of Measure	Quantity
ADA PAVEMENT MARKING - SEBASTIAN-	Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMs). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.	EA	1.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1.0000	EA	333.000	0.00
CMG Pipelines, Inc.	1.0000	EA	2,900.000	0.00
Lambert Bros., Inc.	1.0000	EA	1,430.000	0.00
YC Group, LLC	1.0000	EA	1,550.000	0.00
ITG Communications LLC	1.0000	EA	856.910	0.00

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Item	Description	Unit of Measure	Quantity
THERMOPLASTIC, STANDARD, SOLID 6-	Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMs). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.	LF	435.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	435.0000	LF	8.000	0.00
CMG Pipelines, Inc.	435.0000	LF	14.500	0.00
Lambert Bros., Inc.	435.0000	LF	4.000	0.00
YC Group, LLC	435.0000	LF	28.500	0.00
ITG Communications LLC	435.0000	LF	7.910	0.00

Item	Description	Unit of Measure	Quantity
THERMOPLASTIC, STANDARD, SOLID 2-	Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMs). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.	LF	18.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	18.0000	LF	178.000	0.00
CMG Pipelines, Inc.	18.0000	LF	217.500	0.00
Lambert Bros., Inc.	18.0000	LF	18.000	0.00
YC Group, LLC	18.0000	LF	35.000	0.00

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Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ITG Communications LLC	18.0000	LF	15.820	0.00

Item	Description	Unit of Measure	Quantity
SINGLE POST SIGN, INSTALL - SEBA-	Includes all costs associated with installing signing, thermoplastic pavement markings, including temporary pavement markings prior to thermoplastic, ADA pavement markings, and reflective pavement markers (RPMs). Costs associated with replacing existing signs or pavement markings damaged as a result of construction will be the responsibility of the contractor.	EA	3.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	3.0000	EA	666.000	0.00
CMG Pipelines, Inc.	3.0000	EA	2,175.000	0.00
Lambert Bros., Inc.	3.0000	EA	723.000	0.00
YC Group, LLC	3.0000	EA	55.000	0.00
ITG Communications LLC	3.0000	EA	725.080	0.00

Item	Description	Unit of Measure	Quantity
WHEEL STOP - SEBASTIAN STREET-	Includes the furnishing and installation of precast concrete wheel stops at locations shown on the plans, complete with all labor, materials, equipment, and hardware. Installation shall include proper alignment, anchoring into existing pavement per manufacturer specifications, and compliance with code requirements. Any site areas impacted by the contractor outside of proposed wheel stop installation, such as asphalt overlay, pavement markings, concrete pavement, etc., will be restored by the contractor at no additional cost to the City.	EA	12.0000

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Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	12.0000	EA	1,165.000	0.00
CMG Pipelines, Inc.	12.0000	EA	507.500	0.00
Lambert Bros., Inc.	12.0000	EA	133.000	0.00
YC Group, LLC	12.0000	EA	175.000	0.00
ITG Communications LLC	12.0000	EA	105.470	0.00

Item	Description	Unit of Measure	Quantity
TYPE 9 INLET - SEBASTIAN STREET-	Include all costs associated with installing inlets, catch basins, and manhole structures, and their corresponding pipe connections per the plans. These Bid Items shall include all associated excavation, protection of trench, management of excavated material, backfill and compaction, new fill, testing, and adjusting new manhole/utility covers per the plans and details.	EA	2.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	2.0000	EA	8,813.000	0.00
CMG Pipelines, Inc.	2.0000	EA	22,315.750	0.00
Lambert Bros., Inc.	2.0000	EA	6,600.000	0.00
YC Group, LLC	2.0000	EA	4,750.000	0.00
ITG Communications LLC	2.0000	EA	9,390.120	0.00

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Item	Description	Unit of Measure	Quantity
CATCH BASIN - SEBASTIAN STREET-	Include all costs associated with installing inlets, catch basins, and manhole structures, and their corresponding pipe connections per the plans. These Bid Items shall include all associated excavation, protection of trench, management of excavated material, backfill and compaction, new fill, testing, and adjusting new manhole/utility covers per the plans and details.	EA	3.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	3.0000	EA	8,785.000	0.00
CMG Pipelines, Inc.	3.0000	EA	22,315.750	0.00
Lambert Bros., Inc.	3.0000	EA	6,200.000	0.00
YC Group, LLC	3.0000	EA	5,200.000	0.00
ITG Communications LLC	3.0000	EA	9,582.260	0.00

Item	Description	Unit of Measure	Quantity
DRAINAGE MANHOLE - SEBASTIAN STR-	Include all costs associated with installing inlets, catch basins, and manhole structures, and their corresponding pipe connections per the plans. These Bid Items shall include all associated excavation, protection of trench, management of excavated material, backfill and compaction, new fill, testing, and adjusting new manhole/utility covers per the plans and details.	EA	2.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	2.0000	EA	21,752.000	0.00
CMG Pipelines, Inc.	2.0000	EA	23,040.750	0.00
Lambert Bros., Inc.	2.0000	EA	8,950.000	0.00
YC Group, LLC	2.0000	EA	8,550.000	0.00

continued...

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ITG Communications LLC	2.0000	EA	14,269.040	0.00

Item	Description	Unit of Measure	Quantity
18" HIGH-PERFORMANCE POLYPROPYLE-	Include all costs associated with installing pipe, trench excavation, protection of trench, use of trench box, management of excavated material, new lime rock and subbase as needed, complete trench backfills and compaction, testing, repair/replacement of site damage such as curbing, drop curb, and sidewalk impacted by construction per the plans and details. Trench restoration including first lift of asphalt, second lift to be included with mill & resurface bid items 9 and 26.	LF	175.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	175.0000	LF	335.000	0.00
CMG Pipelines, Inc.	175.0000	LF	352.750	0.00
Lambert Bros., Inc.	175.0000	LF	285.000	0.00
YC Group, LLC	175.0000	LF	95.000	0.00
ITG Communications LLC	175.0000	LF	248.870	0.00

Item	Description	Unit of Measure	Quantity
24" HIGH-PERFORMANCE POLYPROPYLE-	Include all costs associated with installing pipe, trench excavation, protection of trench, use of trench box, management of excavated material, new lime rock and subbase as needed, complete trench backfills and compaction, testing, repair/replacement of site damage such as curbing, drop curb, and sidewalk impacted by construction per the plans and details. Trench restoration including first lift of asphalt, second lift to be included with mill & resurface bid items 9 and 26.	LF	185.0000

continued...

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	185.0000	LF	366.000	0.00
CMG Pipelines, Inc.	185.0000	LF	456.000	0.00
Lambert Bros., Inc.	185.0000	LF	545.000	0.00
YC Group, LLC	185.0000	LF	110.000	0.00
ITG Communications LLC	185.0000	LF	290.920	0.00

Item	Description	Unit of Measure	Quantity
OUTFALL - SEBASTIAN STREET-	Includes procurement of all materials for the full installation of the outfall through the sheet pile walls, the procurement and full installation of the manatee grates at the outfall locations, and all other requirements associated with these items in accordance with the Contract Plans and City details.	EA	2.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	2.0000	EA	7,720.000	0.00
CMG Pipelines, Inc.	2.0000	EA	29,123.750	0.00
Lambert Bros., Inc.	2.0000	EA	8,200.000	0.00
YC Group, LLC	2.0000	EA	6,750.000	0.00
ITG Communications LLC	2.0000	EA	4,460.690	0.00

Item	Description	Unit of Measure	Quantity
WAPRO INLINE CHECK VALVE 24" - S-	Includes all costs associated with the Inline Check Valves and their installations, as shown in the plans and per City details.	EA	1.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1.0000	EA	26,982.000	0.00
CMG Pipelines, Inc.	1.0000	EA	7,987.500	0.00

continued...

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
Lambert Bros., Inc.	1.0000	EA	17,200.000	0.00
YC Group, LLC	1.0000	EA	13,500.000	0.00
ITG Communications LLC	1.0000	EA	27,550.320	0.00

Item	Description	Unit of Measure	Quantity
WAPRO INLINE CHECK VALVE 18" - S-	Includes all costs associated with the Inline Check Valves and their installations, as shown in the plans and per City details.	EA	1.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1.0000	EA	20,832.000	0.00
CMG Pipelines, Inc.	1.0000	EA	7,262.500	0.00
Lambert Bros., Inc.	1.0000	EA	12,250.000	0.00
YC Group, LLC	1.0000	EA	7,500.000	0.00
ITG Communications LLC	1.0000	EA	19,381.430	0.00

Item	Description	Unit of Measure	Quantity
MANATEE GRATE - SEBASTIAN STREET-	Includes procurement of all materials for the full installation of the outfall through the sheet pile walls, the procurement and full installation of the manatee grates at the outfall locations, and all other requirements associated with these items in accordance with the Contract Plans and City details.	EA	2.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	2.0000	EA	7,589.000	0.00
CMG Pipelines, Inc.	2.0000	EA	4,964.500	0.00
Lambert Bros., Inc.	2.0000	EA	2,050.000	0.00

continued...

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
YC Group, LLC	2.0000	EA	4,750.000	0.00
ITG Communications LLC	2.0000	EA	3,917.110	0.00

Item	Description	Unit of Measure	Quantity
DEMOLITION OF SEBASTIAN STREET E-	Include procurement of all materials and labor for the full installation of sheet pile walls, concrete caps, reinforcement, and all other requirements in accordance with the Contract Plans. This also includes the demolition and removal of existing seawall caps and battered piles, and the contractor shall include costs of all required third-party testing as part of the installation cost.	LS	1.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1.0000	LS	25,251.000	0.00
CMG Pipelines, Inc.	1.0000	LS	39,556.500	0.00
Lambert Bros., Inc.	1.0000	LS	22,000.000	0.00
YC Group, LLC	1.0000	LS	53,750.000	0.00
ITG Communications LLC	1.0000	LS	36,253.970	0.00

Item	Description	Unit of Measure	Quantity
SEBASTIAN STREET SHEET PILE WALL-	Include procurement of all materials and labor for the full installation of sheet pile walls, concrete caps, reinforcement, and all other requirements in accordance with the Contract Plans. This also includes the demolition and removal of existing seawall caps and battered piles, and the contractor shall include costs of all required third-party testing as part of the installation cost.	LS	1.0000

continued...

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1.0000	LS	391,856.000	0.00
CMG Pipelines, Inc.	1.0000	LS	247,687.000	0.00
Lambert Bros., Inc.	1.0000	LS	215,970.000	0.00
YC Group, LLC	1.0000	LS	288,156.290	0.00
ITG Communications LLC	1.0000	LS	253,777.820	0.00

Item	Description	Unit of Measure	Quantity
SEBASTIAN STREET CONCRETE CAP-	Include procurement of all materials and labor for the full installation of sheet pile walls, concrete caps, reinforcement, and all other requirements in accordance with the Contract Plans. This also includes the demolition and removal of existing seawall caps and battered piles, and the contractor shall include costs of all required third-party testing as part of the installation cost.	LS	1.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	1.0000	LS	99,804.000	0.00
CMG Pipelines, Inc.	1.0000	LS	94,118.500	0.00
Lambert Bros., Inc.	1.0000	LS	32,300.000	0.00
YC Group, LLC	1.0000	LS	61,250.000	0.00
ITG Communications LLC	1.0000	LS	36,253.970	0.00

continued...

Item	Description	Unit of Measure	Quantity
SEBASTIAN STREET - PIPE PENETRAT-	Include procurement of all materials and labor for the full installation of sheet pile walls, concrete caps, reinforcement, and all other requirements in accordance with the Contract Plans. This also includes the demolition and removal of existing seawall caps and battered piles, and the contractor shall include costs of all required third-party testing as part of the installation cost.	EA	2.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini & Sons, Inc	2.0000	EA	12,887.000	0.00
CMG Pipelines, Inc.	2.0000	EA	7,398.500	0.00
Lambert Bros., Inc.	2.0000	EA	5,815.000	0.00
YC Group, LLC	2.0000	EA	10,000.000	0.00
ITG Communications LLC	2.0000	EA	6,591.630	0.00

Header Questions And Responses

QUESTION

Required Forms: Did you complete and signed all the Required Forms package? Please upload completed forms here.

Question Responses

Supplier	Name	Answer
9	David Mancini & Sons, Inc	Yes
4734	CMG Pipelines, Inc.	Yes
5456	Lambert Bros., Inc.	Yes
5466	YC Group, LLC	Yes
5533	ITG Communications LLC	Yes

continued...

QUESTION

Reference Form: Did you complete the Reference Form? Please upload completed form here.

Question Responses

Supplier	Name	Answer
9	David Mancini & Sons, Inc	Yes
4734	CMG Pipelines, Inc.	Yes
5456	Lambert Bros., Inc.	Yes
5466	YC Group, LLC	Yes
5533	ITG Communications LLC	Yes

QUESTION

Licensing Requirements: Do you meet the Licensing Requirements of this solicitation? Please upload supporting documentation here.

Question Responses

Supplier	Name	Answer
9	David Mancini & Sons, Inc	Yes
4734	CMG Pipelines, Inc.	Yes
5456	Lambert Bros., Inc.	Yes
5466	YC Group, LLC	Yes
5533	ITG Communications LLC	Yes

QUESTION

Bid Security: Are you aware that this solicitation has a Bid Security requirement? Please upload supporting documentation here.

Question Responses

Supplier	Name	Answer
9	David Mancini & Sons, Inc	Yes
4734	CMG Pipelines, Inc.	Yes
5456	Lambert Bros., Inc.	Yes
5466	YC Group, LLC	Yes

continued...

Question Responses

Supplier	Name	Answer
5533	ITG Communications LLC	Yes

QUESTION

Insurance Requirements: Do you meet the Insurance Requirements of this solicitation? Please upload supporting documentation here.

Anti-Human Trafficking Affidavit: Not required at the time of bid response. It is required during contract execution with the awarded Bidder. Refer to the attached sample for reference. Are you willing to comply with this requirement?

Contacts

Name	Email
SANTRECIA HARDEN	saharden@fortlauderdale.gov

Q And A

Supplier	Question	Answer
YC Group, LLC	What is the project budget/ engineer estimate?	The project budget is \$1.6 Million.
Lambert Bros., Inc.	In reviewing the drainage we have the following questions: 1. We assume HDPE pipe is solid wall, is this IPS or DIPS, and what DR? Or do we have a pipe specification we can see that we didn't notice?	There are no proposed HDPE pipes. The proposed pipes are solid High-performance Polyethylene (HP) pipe per Civil Sheets 010 and 011. HP pipes shall match ADS specifications for HP pipes or approved equal.

continued...

Supplier	Question	Answer
Lambert Bros., Inc.	In going over drainage Note on RW Sht 001 calls for minimum 24" limerock base above HDPE pipe. Add 2T (16") and the 18" pipe and the inverts are almost 5 feet. Catch Basins will be significantly deeper? Is there a min base required above RCP?	There are no proposed HDPE or RCP pipes. See Civil Sheets 010 and 011 for proposed pipe sizes, material, lengths, and inverts. See sheet Civil Sheet 012 for Typical Trench and Pavement Restoration detail (City Detail Road 001) for information regarding base and backfill requirements.



City of Fort Lauderdale • Procurement Services Department
101 NE 3rd Avenue • Fort Lauderdale, Florida 33301
954-828-5933 Fax 954-828-5576
purchase@fortlauderdale.gov

ADDENDUM NO. 1

ITB No. 550
TITLE: Sebastian and Seville Seawall Replacement

ISSUED: January 9, 2026

This Addendum is issued to make the following changes to the solicitation:

Pre-Bid Conference Location Change

Changed From:

~~Fort Lauderdale Aquatic Center
501 Seabreeze Blvd.
Fort Lauderdale, Florida 33316~~

Changed To:

City of Fort Lauderdale
Procurement Services 16th Floor Conference Room
101 NE 3rd Avenue
Fort Lauderdale, Florida 33301

All other terms, conditions, and specifications remain unchanged.

Santrecia Harden

Senior Procurement Specialist

Company Name: _____
(please print)

Bidder's Signature: _____

Date: _____



City of Fort Lauderdale • Procurement Services Department
101 NE 3rd Avenue • Fort Lauderdale, Florida 33301
954-828-5933 Fax 954-828-5576
purchase@fortlauderdale.gov

ADDENDUM NO. 2

ITB No. 550
TITLE: Sebastian and Seville Seawall Replacement

ISSUED: January 21, 2026

This Addendum is issued to make the following changes to the solicitation:

Additional Documents

1. Event 550 - Seawall Replacement Due Diligence Report
2. Event 550 - Sebastian St Seawall Replacement SAV Report
3. Event 550 - Seville St Seawall Replacement SAV Report
4. Event 550 - Geotechnical Report
5. Event 550 - FPL Utility Testholes Exhibit
6. Event 550 - Pre-Bid Meeting Sign-In Sheet

All other terms, conditions, and specifications remain unchanged.

Santrecia Harden

Senior Procurement Specialist

Company Name: _____
(please print)

Bidder's Signature: _____

Date: _____

Seville and Sebastian Seawall Replacement

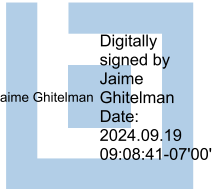
Due Diligence Report



SEPTEMBER 19, 2024

PREPARED BY:

Kimley»Horn



Jaime Ghitelman
FL P.E. #: 87473
Registry No. 35106

PREPARED FOR:



Jaime Ghitelman, Professional Engineer, State of Florida, License No. 87473.

This item has been digitally signed and sealed by Jaime Ghitelman, P.E., on 09/19/2024.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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Environmental Input.....6
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Closure8

Appendices

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- Appendix B – Geotechnical Engineering Report by Tierra South Florida (TSF)s
- Appendix C – Preliminary Structural Plans
- Appendix D – Representative Photographs
- Appendix E – Seagrass Survey – Sebastian Street by Kimley-Horn
- Appendix F – Seagrass Survey – Seville Street by Kimley-Horn
- Appendix G – Giken Press-in System Brochure

PROJECT BACKGROUND

The City of Fort Lauderdale (“City” or “Client”) contracted with Kimley-Horn to provide engineering services for the design of new seawalls as part of Task Order #6. The project consists of the demolition, removal, and replacement of two (2) separate seawalls located on the intracoastal waterway on Seville Street and Sebastian Street in the City of Fort Lauderdale, Florida. Each wall replacement will be approximately 50 linear feet and the elevation of the cap will be raised approximately 2.2 – 2.6 feet above existing elevation to a minimum elevation as required by Ordinance No. C-16-13 (Elevation 5.00 NAVD 88). Additionally, upland roadway and drainage improvements are being proposed as part of this work. This report summarizes our initial findings and recommendations prior to commencing design drawings and analysis.

PRELIMINARY ANALYSIS

As part of the initial investigation, Kimley-Horn performed a preliminary analysis of the proposed seawall to understand the best means of installation and potential impacts of the new seawall on the site. Design information on the seawall was referenced from the following sources:

- *Topographic Survey – A portion of Seville and Sebastian Street* by Avirom & Associates, Inc. (No. 13113) dated July 17, 2024. Refer to Appendix A.
- *Geotechnical Engineering Report* by TSF (No. 7111-21-090) dated March 26, 2021. Refer to Appendix B.

The preliminary seawall was analyzed using Shoring Suite version 8.22.

The preliminary wall was analyzed in accordance with U.S. Army Corps of Engineers (USACE) recommendations. A factor of safety of 1.5 was applied to the passive pressure for determination of preliminary embedment per table 5.1 of EM 1110-2-2504. Allowable steel stresses were reduced by 50% for determination of required section modulus per Section 6.3 (1) of EM 1110-2-2504.

The required top of cap elevation was taken from City of Fort Lauderdale Ordinance C-16-13, amended to require the top of wall elevation at 5.00 NAVD 88. The wall was analyzed with a backfill elevation of 3.9, accounting for a raise in grade behind the wall for potential future development. In conversations with the City on September 6, 2024, in the design phase the wall will be designed with the current grades behind the wall and will not plan for future increases in grades. A live load surcharge of 250 psf was selected for analysis due to the proximity of vehicle traffic directly behind the wall. The design mudline was established using the survey provided by Avirom & Associates, Inc. The lowest grade directly waterward of the walls was selected as the design mudline for a conservative approach. This approach accounts for scour in most sections of the wall to match the existing lowest grade. Water depth elevations were taken from the Topographic Survey By Avirom and Associates, dated July 17, 2024.

The preliminary wall was analyzed using the following parameters:

- Top of Cap: El. 5.00 ft (NAVD88)
- Soil Behind Wall: El. 3.90 ft (NAVD88)

- Design Mudline: El. -5.70 ft (NAVD88)
- Live Load Surcharge: 250 psf
- Mean High Water: El. 0.25 ft (NAVD88)
- Mean Low Water: El. -2.13 (NAVD88)

The analysis results from the preliminary models yielded the following design for cantilever steel sheet piles:

- Sheet Pile Size: NZ26
- Required Embedment: 39 ft

A sketch of the preliminary proposed wall section is included in Appendix C. If the City prefers, the steel sheet pile wall could be designed with a concrete fascia on the wet face of the wall to provide a uniform concrete aesthetic across the neighboring walls. Based on the design heights of the wall the use of a concrete cantilever wall is not cost efficient and a tied back wall would be required for this material type. Given the complexity of the utilities, drainage, and the existing wall's as-builts we propose the use of cantilever steel sheet piles.

For connection of the existing walls, Kimley-Horn recommends driving the proposed sheet piles overlapping on the neighboring walls on both the north and south sides. This will limit the seepage of soil between the proposed walls and the neighboring walls.

UTILITY CONFLICTS

As part of the initial due diligence, Kimley-Horn coordinated with utility providers in the area to understand if there are potential conflicts. The following utilities were contacted:

- AT&T
- Broward County Traffic Engineering
- City of Fort Lauderdale
- Comcast
- FPL
- Hotwire
- TECO
- Verizon

As part of the coordination, Kimley-Horn does not guarantee that all possible utilities were identified as part of the coordination. It is possible that additional utilities may be located in the project areas not described below and additional investigations may be required to confirm existing conditions.

According to FPL, there is a buried utility line running east to west across the Intracoastal Waterway at the Seville property. An FPL representative provided the annotated aerial image shown in Figure 1 depicting the approximate location of the line. The FPL representative stated the depths of the line were unknown, and the best way to determine the line's exact location would be to call for utility locates via SUE (subsurface utility engineering). Per our conversations with The City, Kimley-Horn will coordinate with local subcontractors to find a company capable of performing the SUE during this next project phase.

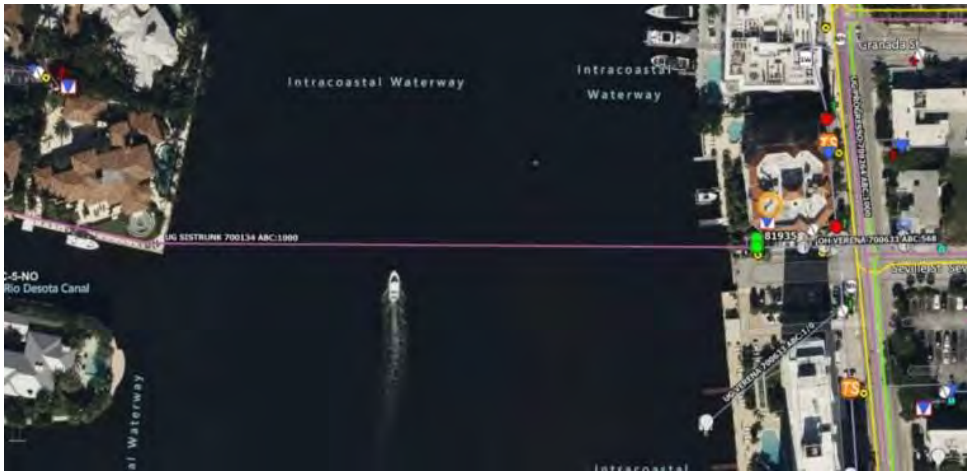


Figure 1 FPL Buried Utility Crossing (Source: FPL Contact)

CONTRACTOR INPUT

Kimley-Horn spoke with a contractor specializing in seawall construction as part of this Due Diligence to determine constructability surrounding the proposed seawall replacements. Kimley-Horn provided the results of our preliminary analysis as a basis for wall construction. Given the condition of the neighboring docks and proximity of the existing buildings, the contractor strongly recommended the Giken Press-In System for reductions in vibration during pile driving operations. Traditional sheet pile installation methods (vibration, hammering, etc.) often produce significant vibrations in the general vicinity of the work. These vibrations can cause damage or settlement to adjacent structures. The Giken Press-In System helps to reduce vibration by applying static load to the sheet piles rather than using vibration or hydraulic hammering of sheets. This system would help protect the structural integrity of the surrounding structures. Although this is a more expensive method of construction it has been known to reduce the risk of property damage on adjacent properties and to minimize other unaccounted costs to the project caused by excessive vibration.

The contractor also recommended for the Sebastian Street location, the proposed wall be driven in front of the existing wall, rather than the removing the existing and constructing the proposed wall in the existing alignment. Removal of the existing wall would require driving of temporary sheets for soil stabilization and could potentially double the cost of the project. Removal of the existing wall would also require full depth improvements in the impacted areas on the land side.

At the Seville Street location, the existing battered piles may prohibit construction of proposed wall in front of the existing wall. The existing battered piles provide critical support for the existing wall. Removing the battered piles without taking action to support the wall or reduce its loading could result in the existing wall's failure. Replacement of the wall may be required using the

procedures described above. It is possible to remove the active pressure from the existing wall and phase the construction of the new wall after cutting the battered piles. This method will require additional coordination with adjacent properties and incur additional costs for roadway improvements. Additionally, temporary sheet pile installation may be required as a safety precaution to avoid potential failures.

For construction, the contractor recommends building from the roadside behind the wall on both the Seville and Sebastian walls. Building the wall from the water on a barge is predicted to double the overall project’s cost and due to water depth could be limited during certain tidal events. This has implications on the parking capacity of the properties directly behind the seawall. Coordination with each of the Associations will be required to understand if they would allow a loss of parking spaces.

Two utility conflicts were discussed with the contractor at the Seville Street location. One of the conflicts is the overhead FPL power lines that are approximately 25-30 feet behind the wall. To avoid arcing between the sheet piles being driven and the power lines, the contractor explained that it is typically recommended to have 50 feet of clearance between power lines and pile driving operations. The clearance distance will need to be confirmed in coordination with FPL during the construction phase. In the past, the contractor stated FPL has been able to temporary relocate the overhead lines. Prior to construction coordination with FPL will be required to determine if temporary relocation of overhead power equipment will be possible. Regarding the FPL buried line, the contractor stated the Giken Press-in system will be restrictive on building the pipe pile bridge discussed in the “Utility Conflicts” section. The contractor stated temporary relocation of the buried line will likely be required which may add costs and/or schedule implications.

ENVIRONMENTAL INPUT

A submerged aquatic vegetation (SAV) survey was conducted at the locations of proposed work to determine the presence or absence of seagrass and benthic resources that could potentially be affected by construction activities within the Intracoastal Waterway. To be consistent with state and federal requirements, the survey was completed on July 9th, 2024, during the peak seagrass growing season to capture the maximum spatial extent and cover of SAV, if present. No benthic resources were observed during the Seville Street survey visit. Seagrass and benthic resources appear to be present during the Sebastian Street survey visit, however, due to the proposed work of replacing the existing seawalls, no impacts to benthic resources are anticipated. Additionally, it is recommended that the Contractor follows Best Management Practices (BMPs) and the Standard Manatee Conditions for In-Water Work during all construction activities to reduce any potential secondary impacts to the adjacent waterway.

PROJECT RECOMMENDATIONS

Based on the information found in the due diligence phase, Kimley-Horn provides the following recommendations. It is recommended the proposed sheet pile walls be constructed directly waterward of the existing seawalls for both the Seville and Sebastian locations due to costs and constructability implications. Permitting could be lengthier since we will be installing in the water

but by restricting the new wall a maximum of 18" from the waterward face of the existing wall we can obtain Army Corps of Engineering exemptions. Kimley-Horn recommends holding a pre-application meeting with the Florida Department of Environmental Protection (FDEP) to discuss building in front of the existing wall. In past experience, FDEP will sometimes allow the centerline of the proposed wall to protrude up to 18 inches waterward of the existing and still grant a State Programmatic General Permit (SGPG). The SGPG typically allows for a quicker permit review process rather than a full permit which will include Army Corps engineering review. Given the proximity and condition of existing structures, Kimley-Horn recommends the proposed walls be installed with the Giken Press-in system to limit vibrations and potential damage to existing structures. Preconstruction conditions, survey, and vibration monitoring during construction should also be performed during sheet pile installations in accordance with Florida Department of Transportation (FDOT) specifications.

Kimley-Horn also recommends FPL be contacted to discuss the power lines and proposed construction methods. During this call, it may be necessary to coordinate temporary relocation of exiting power lines and buried utilities during construction. In conversations with the City on September 6, 2024, in past projects FPL has stated clearance to power lines was only required to be 10 feet. In these instances, FPL and the City have worked to install protective insulators over the powerlines to prevent arcing between the power lines and steel sheet piles. Coordination with the FPL should begin as early as possible in the process as this can take time to approve and coordinate.

Construction of the proposed walls, if done from the land side, is expected to have significant impacts on parking for the neighboring properties. Kimley-Horn recommends the consultant and City participate in discussions with the neighboring properties to provide input on proposed traffic circulation and put this information in the plans for Contractors to plan on these impacts in their pricing. While constructing from barges in the water would greatly limit impacts to parking, it may be cost prohibitive for the project based on contractor input. The contractor should be required to submit maintenance of traffic, pedestrian safety, and proposed staging area plans prior to construction for approval.

If the new seawall is constructed waterward, and no removal occurs, the existing pipe outfalls will need to be extended to penetrate through the new seawall. Coordination with the upland improvements will be required to ensure drainage and outfalls are coordinated for the new seawall openings.

Prior to construction, Kimley-Horn recommends the utility line be located via SUE to determine its precise location. If the utility line conflicts with construction of the proposed wall, the simplest solution in terms of design would be to temporarily relocate the line until construction is completed and it can be reinstalled in its original location. Another option would be to drive pipe piles or W-shapes on both sides of the utility and drive the sheet piles between to a shallower elevation as to avoid conflict with the utility. This option would limit the available construction methods and require the sheet pile wall to extend further waterward of the existing wall.

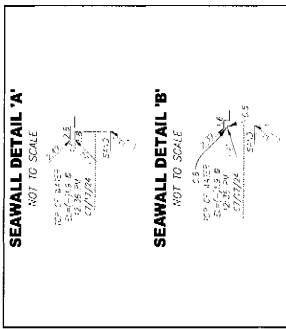
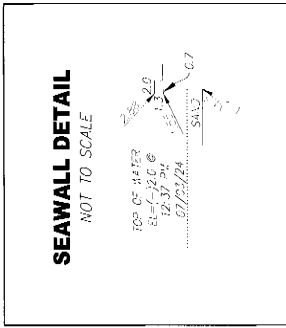
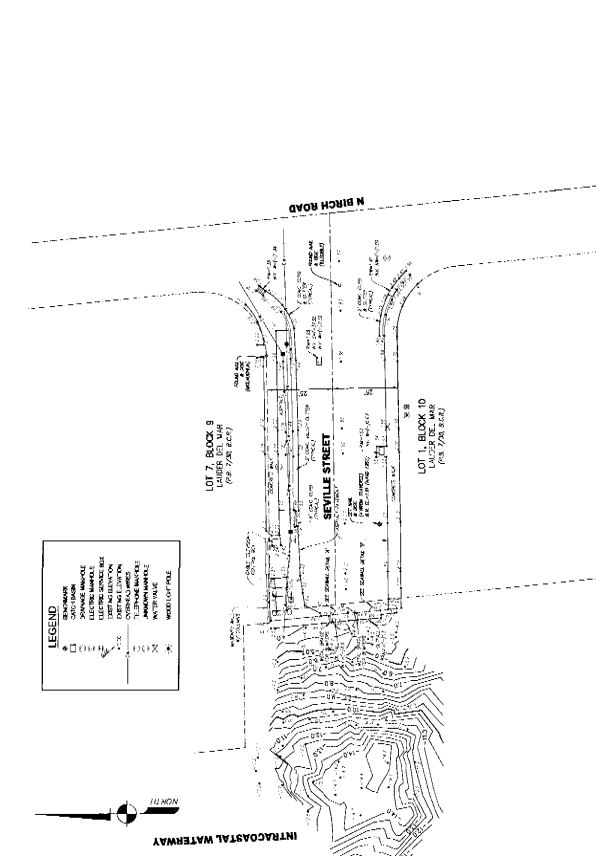
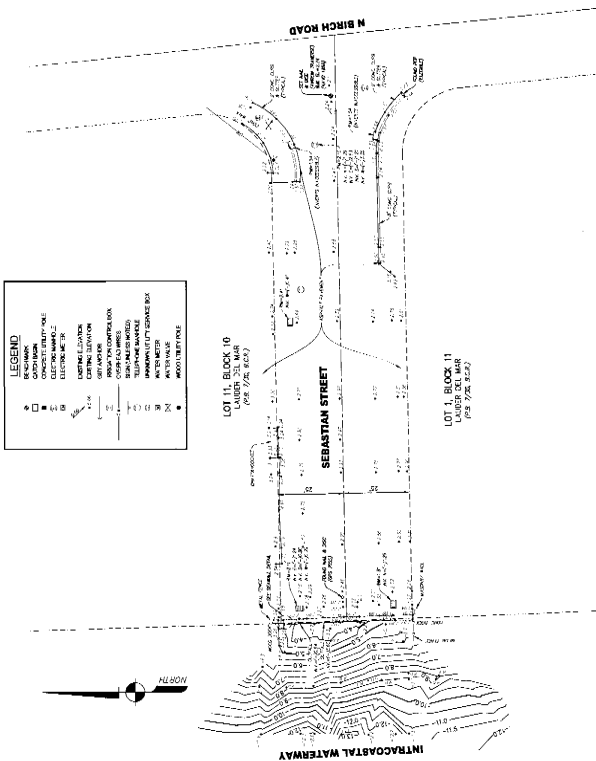
None of the other providers contacted are able to perform the required utility dig. Due to the lack of data from the utility providers additional investigation will be required during the design phase. In the design phase, it is recommended the City reach out to a private contractor to determine the utility's precise depth and location.

CLOSURE

Kimley-Horn was retained to perform a limited feasibility analysis, and we performed only those tasks specifically stated in our scope of services. This report may be relied upon only by Kimley-Horn's Client. It is not intended for use by any other party.

The Client may use this report as part of its due diligence, but this report should not be used as the sole basis for the Client's decision making. We endeavored to research site development issues and constraints to the extent practical given the scope, budget, and schedule agreed to with the Client. Our assessment is based in large part on information provided to us by others (city staff, Utility Company Representatives, Contractor Input, etc.) and therefore is only as accurate and complete as the information provided to us. This report is based on our knowledge as of September 19th, 2024 and is based on the desires of the Client that have been specifically disclosed to us. New issues may arise during development because of changes in governmental rules and policy, changed circumstances, or unforeseen conditions.

APPENDIX A – SURVEY BY AVIROM & ASSOCIATES, INC



MEAN HIGH WATER ELEVATION = 6.25 (NAVD 1988)
 MEAN LOW WATER ELEVATION = 1.25 (NAVD 1988)
 DATUM = MEAN LOW WATER
 REFERENCE ELEVATION POINT = 1001 S.W. 10th AVE., SUITE 1000, FT. LAUDERDALE, FL 33304

BATHYMETRIC SURVEY REPORT:

- The Bathymetric Survey was conducted on June 24, 2024.
- The survey was conducted in the waters of the City of Fort Lauderdale, Florida, within the jurisdiction of the North American Vertical Datum of 1988 (NAVD 88).
- The bathymetric measurements were taken using a Trimble SPP2000 echosounder mounted on a boat.
- The bathymetric measurements were taken in the waters of the City of Fort Lauderdale, Florida, within the jurisdiction of the North American Vertical Datum of 1988 (NAVD 88).
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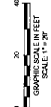
SURVEYOR'S REPORT:

- Reproduction of this Survey and any part thereof, without the signature and the original seal of a Florida Licensed Surveyor and appropriate addition of notations by the Surveyor, is prohibited by law.
- The Surveyor's Report is a true and correct copy of the original as shown on the attached drawings.
- The Surveyor's Report is a true and correct copy of the original as shown on the attached drawings.
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CERTIFICATION:

I, **AVIRON**, certify that the attached Topographic Survey of the above described property is true and correct to the best of my knowledge and belief and that I am a duly Licensed Professional Surveyor in the State of Florida, License No. 12345. I am not providing this Survey to any other party.

DATE: 07/12/24
 SIGNATURE: AVIRON
 TITLE: PROFESSIONAL SURVEYOR
 LICENSE NO.: 12345



APPENDIX B – GEOTECHNICAL ENGINEERING REPORT BY TSF



March 26, 2021, Rev 2 5/13/21

CHEN MOORE AND ASSOCIATES
500 W. Cypress Creek Road, Suite 630
Fort Lauderdale, FL 33309
Attn: Mr. Daniel Davila, P.E
email: ddavila@chenmoore.com

**RE: Geotechnical Services Report
Seville Street and Sebastian Street Replacements
at Intracoastal Waterway
Fort Lauderdale, FL
TSF Project No. 7111-21-090**

Dear Daniel:

As requested, TIERRA SOUTH FLORIDA, Inc. (TSF) has completed a Geotechnical review of soils for the seawall and roadway for the project. For the seawall, two (2) Standard Penetration Test (SPT) borings were extended to a depth of approximately 45 feet below existing grade at the above-referenced site. For the roadway, a total of two (2) SPT borings were extended to a depth of approximately 15 feet below grade, and four (4) asphalt cores were obtained, including the measure of the base material.

We understand that the existing retaining wall is starting to fail in the sections noted for these two locations.

The SPT borings were drilled using a CME-55 or D-50 truck-mounted drill rig. Samples of the in-place materials were recovered at frequent intervals using procedures noted in ASTM D1586. The samples of the in-place soils were returned to our laboratory for classification by a geotechnical engineer. The samples were classified in general accordance with the Unified Soil Classification System (ASTM D 2488). A limited amount of laboratory testing was completed to confirm the visual classifications. The lab testing was completed in accordance with test procedures noted below in Table 1. The results of the testing are included on the attached **Summary of Laboratory Tests, and Grain Size Data Sheets.**

Table 1 – Soil Sample Testing Methods	
Test Type	Test Method
Sieve Analysis	ASTM C 136 (AASHTO T 27)
Moisture Content	ASTM D 2216 (AASHTO T 265)
Atterberg Limits	Liquid Limit: ASTM D 4318 (AASHTO T 89) Plastic Limit: ASTM D 4318 (AASHTO T 90)
Organic Content	ASTM D 2974 (AASHTO T 267)

Borings B-1 and B-2 were completed to explore the seawall soils. Borings B-3 and B-4 were completed to explore the roadway soil. The boring locations are noted on the attached **Boring Location Plan - Sheet 1**. The soil profiles and SPT N-Values are noted on attached **Soil Profiles – Sheet 2 and Sheet 3**.

All SPTs were completed from within the roadway section, therefore had asphalt and limerock base at the surface. Four (4) asphalt cores were taken to explore the asphalt and based for the roadway sections. Information regarding the asphalt, base and general roadway are included in the attached **Pavement and Base Material Data Sheet**. Photos were obtained for the core field locations and core samples in the lab. Photos are attached as **Core Photos**.

For the SPTs tests, light brown to brown sand with trace shell, with a Classification of SP, followed the base at all locations. At the seawall the SP sand continued to a depth between 6 and 10 feet below grade and was followed by an organic silt (or peat) material, Classified as PT, for a layer depth of 2 to 5 feet. Below the PT material a thin layer of SP sand was encountered, and then a relatively hard limestone layer was encountered with a layer depth of at least 6 feet. The limestone layer was followed by a SP sand layer or intermittent with limestone/SP sand. The borings for the roadway had the SP sand for the full depth below the roadway base. Several layers had significant amounts of shell, or phosphate, or both shell and phosphate.

The above subsurface description is of a generalized nature intended to highlight the major subsurface stratification features and material characteristics. All referenced depths should be considered as approximate. The boring logs should be reviewed for specific information at individual boring locations. These records include soil descriptions, stratifications, and penetration resistances. The stratifications shown on the boring logs represent the conditions only at the actual boring locations. Variations may occur and should be expected between boring locations. The stratifications represent the approximate boundary between subsurface materials, and the actual transition may be gradual. Water level information obtained during field operations is also shown on the boring logs. The samples that were not altered by laboratory testing will be retained for 30 days from the date of this report and then will be discarded.

Based on soil conditions observed on-site in the SPT borings for the seawall, the soil layer may be modeled for wall analysis with the parameters noted below in Table 2. A relatively hard limestone layer exists at a depth of approximately 18 to 20 feet below grade, which likely will not be penetrable by the standard sheet piles. For this reason, a tie-back system may be feasible. A recommendation of soil parameters by wall depth is noted on the attached **Soil Parameters Table for Foundation Design**.

Table 2 – Sheet Pile Wall Soil Parameters						
Location	Saturated Unit Weight of Soil (pcf)	Saturated Unit Weight of Soil (pcf)	Internal Angle of Friction (phi–degrees)	Active Pressure Coefficient (ka)	Passive Pressure Coefficient (kp)	Cohesion (c)
B-1	110	47.5	30	.333	3.00	0
B-2	110	47.5	30	.333	3.00	0

Notes:

1. Saturated Unit Weight should be used for Design.
2. This table valid for a sheet pile wall length of 22 feet. Use attached values for different wall lengths.
3. The ML material has been given a zero N-Value to be discounted. The PT material had a zero value (Weight of Hammer) recorded N-Value.

The unsupported length of the front face of the wall should be considered at the bottom of the waterway to be conservative. The water level should be surveyed to determine the design dredge line value. Based on these conditions anticipated, it is estimated that the sheet pile length will need to be at least 22 to 25 feet below the ground surface.

A granular soil drainage section is anticipated at the top of the retaining wall. The use of granular material near the top of the pile will not change the design parameters noted herein. The groundwater on the active side of the wall should be modelled at the ground surface at the active side of the wall to be conservative.

As an alternative to tie-back walls, the limestone layer could be penetrated during construction to allow the sheet piles to attain a greater depth and attain stability without tie-backs. The below note may be included in the plans.

CONTRACTOR TO REVIEW CORE BORING SHEETS TO ANTICIPATE POSSIBLE DRIVING CONDITIONS. BORINGS ENCOUNTERED HARD LIMESTONE AND COMPACTED FILL. HARD DRIVING CONDITIONS MAY EXIST AND SHOULD BE ANTICIPATED. IN ORDER TO ACHIEVE REQUIRED PENETRATION DEPTH THE CONTRACTOR SHALL ANTICIPATE PREDRILLING, A PILE SECTION CAPABLE OF BEING DRIVEN THROUGH THE VARIOUS STRATA, AND/OR PILE DRIVING TIPS (TOE STRENGTHENING). PREDRILL HOLE DIAMETER TO BE APPROXIMATELY 2 INCHES LARGER THAN SHEET PILE WIDTH.

Ground vibrations induced by the compaction operations should be closely monitored to assess if there is a potential impact to any existing adjacent structures. Survey points on the nearby structure

should be established prior to installation and should be monitored for settlement during sheet pile installation. Some form of pre-drilling of the installation may be required to reduce vibrations levels.

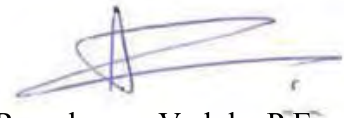
To verify the soil conditions are properly interpreted, we request that TSF be included in the review process before the final plans are completed.

If you have any questions pertaining to this report, or if we may be of further service, please contact our office.

Very truly yours,
TIERRA SOUTH FLORIDA, INC.



Harmon C. Bennett, P.E.
Principal Engineer
FL Reg. No. 53130



Ramakumar Vedula, P.E.
Principal Engineer
FL Reg No. 54873



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TIERRA SOUTH FLORIDA, INC
2765 VISTA PARKWAY 5-10
WEST PALM BEACH, FL 33411
CERTIFICATE OF AUTHORIZATION 28073
HARMON C. BENNETT, P.E. No.53130

Attachments:

- Summary of Laboratory Tests
- Grain Size Data Sheets
- Boring Location Plan - Sheet 1
- Soil Profiles – Sheet 2 and Sheet 3
- Pavement and Base Material Data Sheet
- Core Photos
- Soil Parameters Table for Foundation Design

SUMMARY OF LABORATORY TESTS
Seville Street and Sebastian Street Replacements
at Intracoastal Waterway
Fort Lauderdale, FL
TSF Project No. 7111-21-090

Boring Number	Sample Number	Sample Depth (ft)	Stratum Number	Unified Symbol	AASHTO Symbol	Sieve Analysis, Percentage Passing										Atterberg Limits			Organic Content (%)	Natural Moisture Content (%)
						3/4"	3/8"	#4	#10	#40	#60	#100	#200	Liquid Limit	Plastic Limit	Plasticity Index				
B-1	5	8' TO 10'	7	ML	A-4	100	100	100	99	88	78	71	67	29.3	NP	NP	4.9	55.1		
B-2	2	2' TO 4'	8	SP-SM	A-1-b	97	95	92	84	39	20	10	7					15.8		
B-2	5	8' TO 10'	11	SP-SM	A-1-b	100	100	99	93	34	14	4	2					18.6		
B-2	7	13.5' TO 15'	4	PT	A-8	100	99	98	97	94	91	87	75				18.4	119.9		
B-4	3	4' TO 6'	8	SP	A-1-b	100	100	99	91	10	4	3	2					21.1		



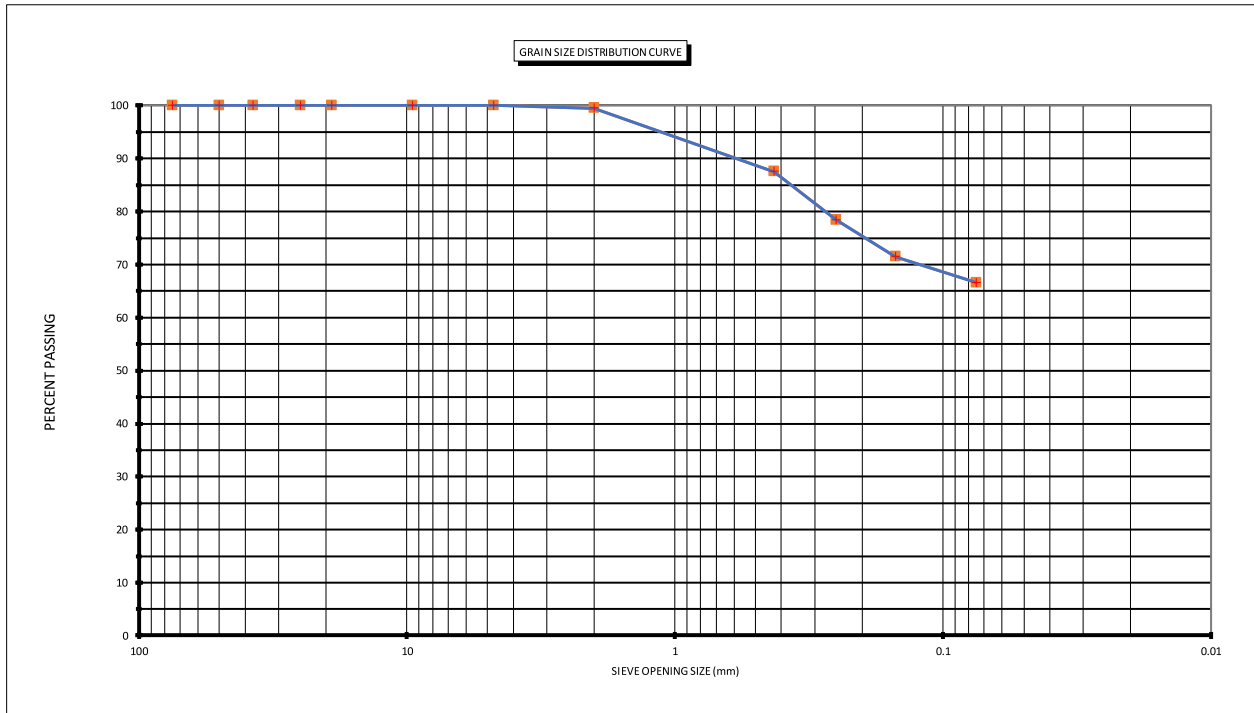
GRAIN SIZE DATA SHEET

PROJECT NAME: Seville Street and Sebastian Street Replacements

LOCATION: at Intracoastal Waterway

PROJECT #: Fort Lauderdale, FL

DATE: 3/22/2021



ASTM D 2487 Classification of Soil for Engineering Purposes		Coarse Sand	< #4 and > #10	$Cu = D_{60} / D_{10}$
Coarse Gravel	< 3" and > 3/4"	Medium Sand	< #10 and > #40	$Cc = (D_{30})^2 / (D_{10} \times D_{60})$
Fine Gravel	< 3/4" and > #4	Fine Sand	< #40 and > #200	

BORING # B-1 **SAMPLE #** 5 **DEPTH (ft):** 8' TO 10'
STRATUM: 7

SOIL CLASSIFICATION: A-4
MC% 55.1 **DARK GRAY ORGANIC SILT (ML)**
OC% 4.93
-200% 67

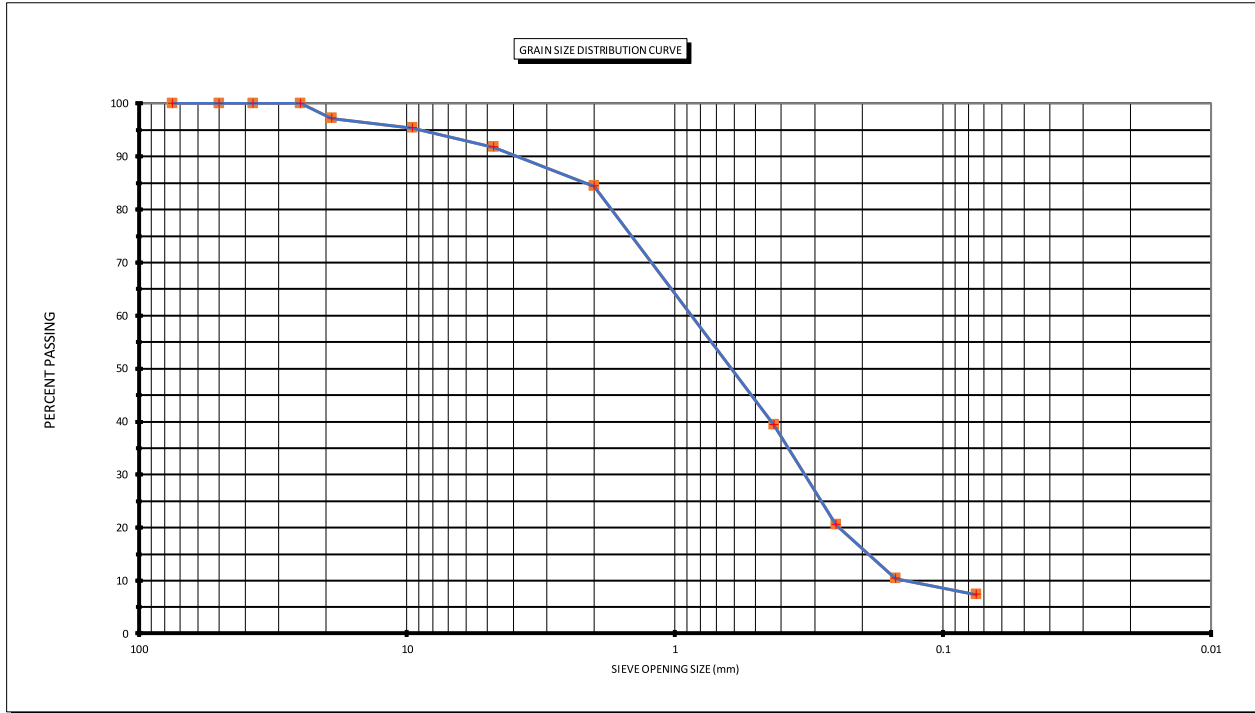
ATTERBERG LIMIT (- #40 Material)	
LIQUID LIMIT	29.3
PLASTIC LIMIT	NP
PLASTIC INDEX	NP



GRAIN SIZE DATA SHEET

PROJECT NAME: Seville Street and Sebastian Street Replacements
 LOCATION: at Intracoastal Waterway
 PROJECT #: Fort Lauderdale, FL

DATE: 3/22/2021



ASTM D 2487 Classification of Soil for Engineering Purposes		Coarse Sand	< #4 and > #10	$Cu = D_{60} / D_{10}$
Coarse Gravel	< 3" and > 3/4"	Medium Sand	< #10 and > #40	$Cc = (D_{30})^2 / (D_{10} \times D_{60})$
Fine Gravel	< 3/4" and > #4	Fine Sand	< #40 and > #200	

BORING # B-2 SAMPLE # 2 DEPTH (ft): 2' TO 4'
 STRATUM: 8

SOIL CLASSIFICATION: A-1-b
 MC% 15.8
 OC% 7
 -200% 7
LIGHT BROWN TO BROWN SAND (SP) WITH TRACE SHELL

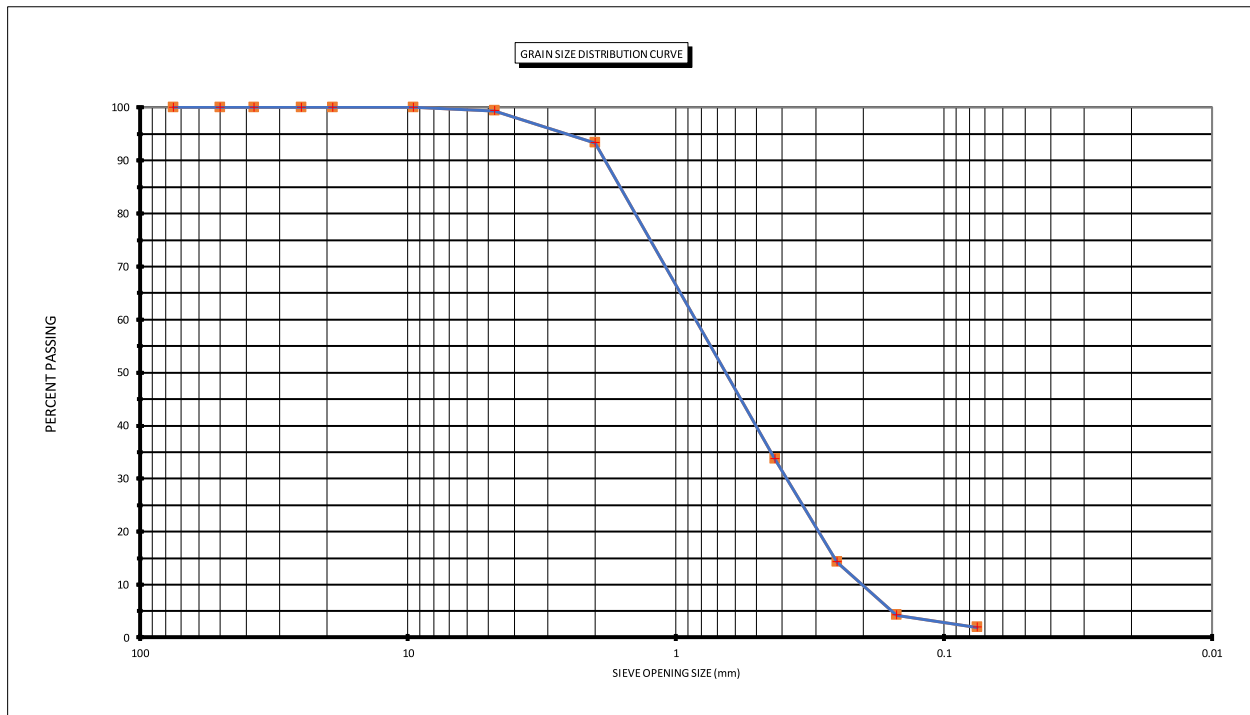
ATTERBERG LIMIT (- #40 Material)	
LIQUID LIMIT	
PLASTIC LIMIT	
PLASTIC INDEX	



GRAIN SIZE DATA SHEET

PROJECT NAME: Seville Street and Sebastian Street Replacements
LOCATION: at Intracoastal Waterway
PROJECT #: Fort Lauderdale, FL

DATE: 3/22/2021



ASTM D 2487 Classification of Soil for Engineering Purposes		Coarse Sand	< #4 and > #10	$Cu = D_{60} / D_{10}$
Coarse Gravel	< 3" and > 3/4"	Medium Sand	< #10 and > #40	$Cc = (D_{30})^2 / (D_{10} \times D_{60})$
Fine Gravel	< 3/4" and > #4	Fine Sand	< #40 and > #200	

BORING # B-2 **SAMPLE #** 5 **DEPTH (ft):** 8' TO 10'
STRATUM: 11

SOIL CLASSIFICATION: A-1-b
MC% 18.6 **LIGHT BROWN TO BROWN SAND (SP) WITH TRACE TO SOME PHOSPHATE**
OC% **2**
-200%

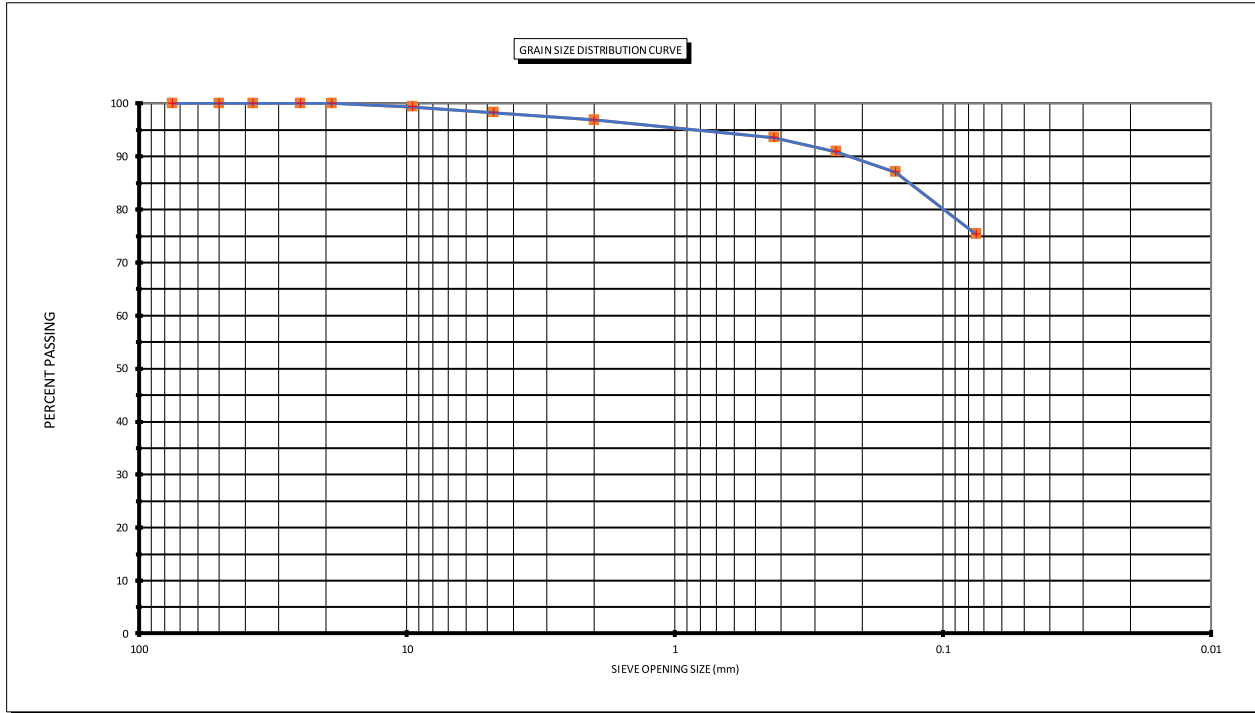
ATTERBERG LIMIT (- #40 Material)	
LIQUID LIMIT	
PLASTIC LIMIT	
PLASTIC INDEX	



GRAIN SIZE DATA SHEET

PROJECT NAME: Seville Street and Sebastian Street Replacements
 LOCATION: at Intracoastal Waterway
 PROJECT #: Fort Lauderdale, FL

DATE: 3/22/2021



ASTM D 2487 Classification of Soil for Engineering Purposes		Coarse Sand	< #4 and > #10	$Cu = D_{60} / D_{10}$
Coarse Gravel	< 3" and > 3/4"	Medium Sand	< #10 and > #40	$Cc = (D_{30})^2 / (D_{10} \times D_{60})$
Fine Gravel	< 3/4" and > #4	Fine Sand	< #40 and > #200	

BORING # B-2 SAMPLE # 7 DEPTH (ft): 13.5' TO 15'
 STRATUM: 4

SOIL CLASSIFICATION: A-8
 MC% 119.9
 OC% 18.45
 -200% 75
 ORGANIC PEAT (PT)

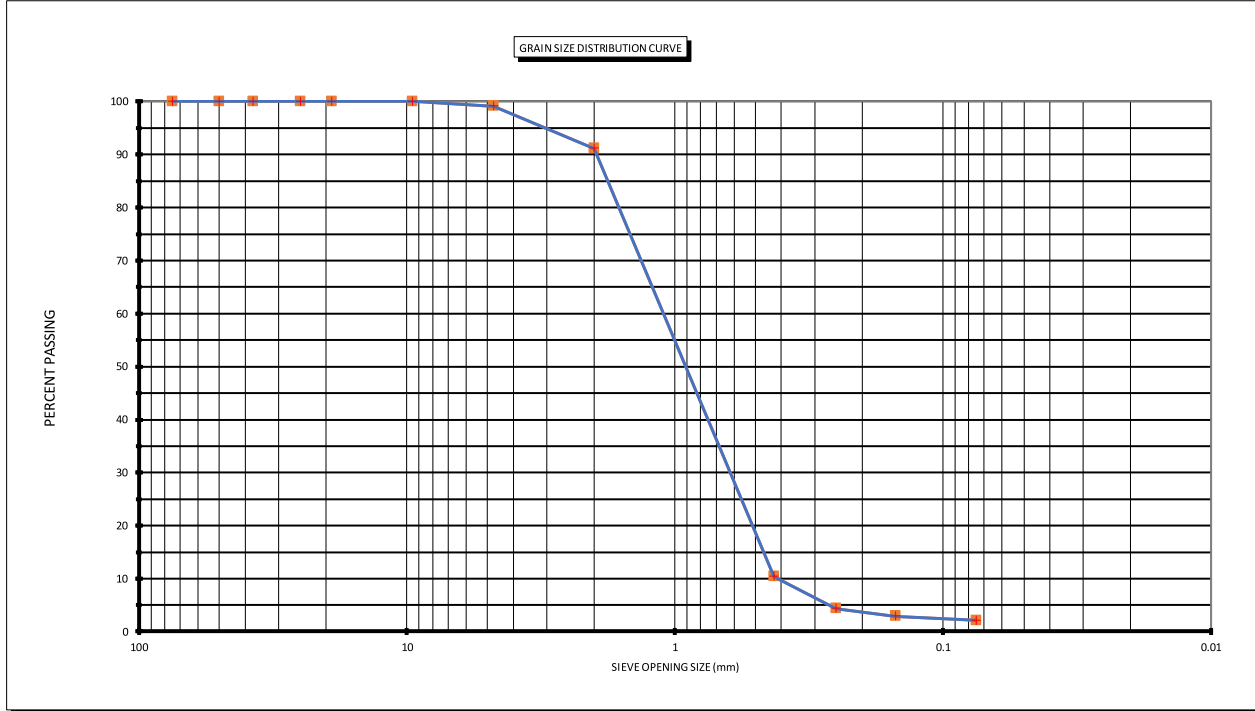
ATTERBERG LIMIT (- #40 Material)	
LIQUID LIMIT	
PLASTIC LIMIT	
PLASTIC INDEX	



GRAIN SIZE DATA SHEET

PROJECT NAME: Seville Street and Sebastian Street Replacements
LOCATION: at Intracoastal Waterway
PROJECT #: Fort Lauderdale, FL

DATE: 3/22/2021



ASTM D 2487 Classification of Soil for Engineering Purposes		Coarse Sand	< #4 and > #10	$C_u = D_{60} / D_{10}$
Coarse Gravel	< 3" and > 3/4"	Medium Sand	< #10 and > #40	$C_c = (D_{30})^2 / (D_{10} \times D_{60})$
Fine Gravel	< 3/4" and > #4	Fine Sand	< #40 and > #200	

BORING # B-4 **SAMPLE #** 3 **DEPTH (ft):** 4' TO 6'
STRATUM: 8

SOIL CLASSIFICATION: A-1-b
MC% 21.1
OC% LIGHT BROWN TO BROWN SAND (SP) WITH TRACE SHELL
-200% 2

ATTERBERG LIMIT (- #40 Material)	
LIQUID LIMIT	
PLASTIC LIMIT	
PLASTIC INDEX	



BORINGS LOCATION PLAN

- ◆ Approximate Location of SPT Boring
- ⊙ Approximate Location of Pavement Core

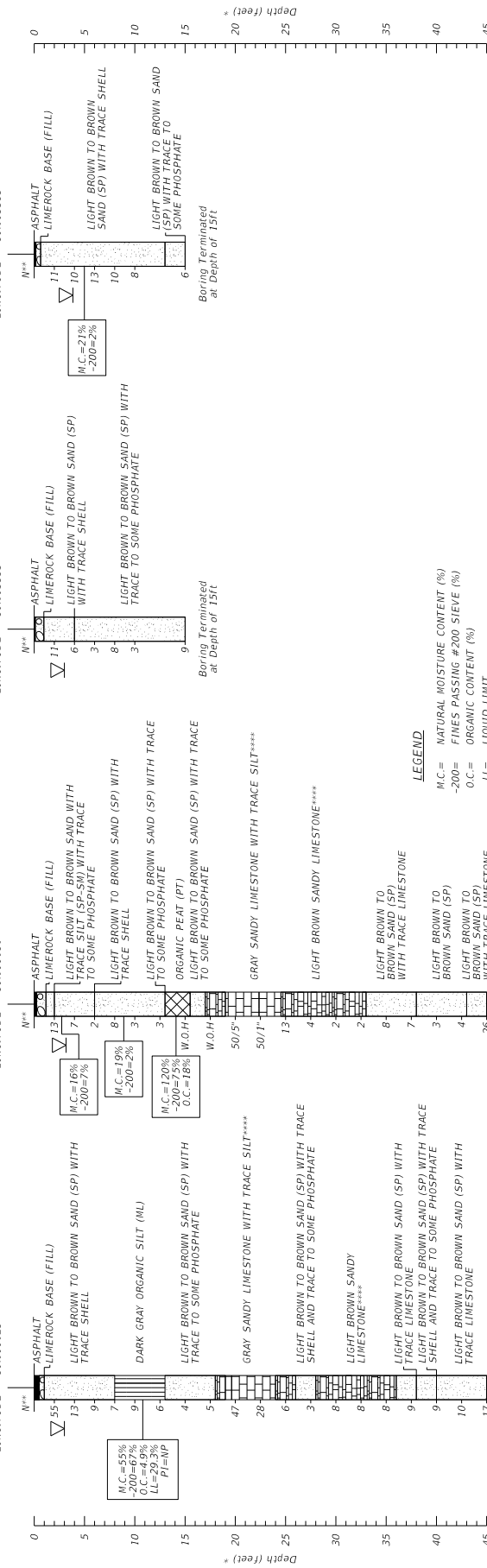
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BOR # B-1
 DATE 3/19/2021
 HADN 26125839
 ***LATITUDE -80.106125
 ***LONGITUDE -80.106125

BOR # B-2
 DATE 3/20/2021
 HADN 26124216
 ***LATITUDE -80.106181
 ***LONGITUDE -80.106181


BOR # B-3
 DATE 3/20/2021
 HADN 26125881
 ***LATITUDE -80.105553
 ***LONGITUDE -80.105553

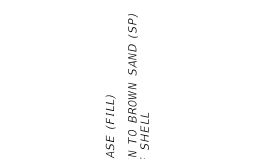
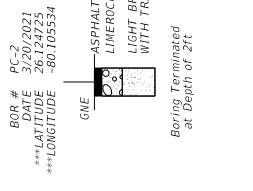
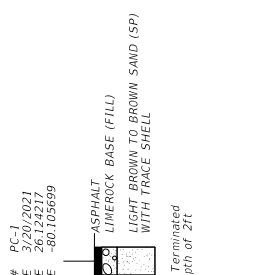
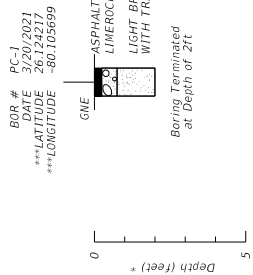
BOR # B-4
 DATE 3/20/2021
 HADN 26124231
 ***LATITUDE -80.105383
 ***LONGITUDE -80.105383



LEGEND
 M.C. = NATURAL MOISTURE CONTENT (%)
 -200 = FINES PASSING #200 SIEVE (%)
 O.C. = ORGANIC CONTENT (%)
 LL = LIQUID LIMIT
 PI = PLASTICITY INDEX
 Encountered Groundwater Table

NOTES
 * DENOTES DEPTH IN FEET FROM EXISTING GROUND SURFACE
 ** SPT N-VALUES SHOWN ABOVE WERE OBTAINED USING AUTOMATIC HAMMERS, GENERALLY DESIGN CORRELATIONS AND PROGRAMS USE SAFETY HAMMER N-VALUES. EQUIVALENT SAFETY HAMMER N-VALUES FOR DESIGN PURPOSES.
 *** LATITUDE AND LONGITUDE ARE APPROXIMATE, BASED ON HANDHELD GPS/WAP GARMIN 78S. ACTUAL BORING LOCATIONS COULD VARY
 **** THE LIMESTONE STRATA ENCOUNTERED WITHIN THE PROJECT SITE CORRESPOND TO A ROCK FORMATION THAT TYPICALLY OFFER HIGH RESISTANCE TO EXCAVATION AND ROCK BREAKING. THESE STRATA ARE NOT RECOMMENDED FOR EXCAVATION TO EXCAVATE AND DRILL WITHIN THESE LIMESTONE LAYERS. THESE LIMESTONE LAYERS ARE ALSO DIFFICULT TO DENATURE DUE TO THEIR HIGH POROSITY AND PERMEABILITY.

DRAWN BY: NG	APPROVED BY: RK DATE: 03-23-2021	ENGINEER OF RECORD: RAJ KRISHNASAMY, P. E. FLORIDA LICENSE NO.: 53567	 TIERRA SOUTH FLORIDA 2765 VISTA PARKWAY, S-10 WEST PALM BEACH, FL 33411	SCALE: NTS	PROJECT NUMBER: 7111-21-090	SOIL PROFILES SEVILLE STREET AND SEBASTIAN STREET REPLACEMENT AT INTRACOSTAL WATERWAY HOLLYWOOD, FLORIDA	Sheet: 2
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LEGEND
GNE Groundwater Not Encountered

Asphalt
Gravelly Sand
Sand

NOTES
* DENOTES DEPTH IN FEET FROM EXISTING GROUND SURFACE
** SPT N-VALUES SHOWN ABOVE WERE OBTAINED USING AUTOMATIC HAMMERS. GENERALLY DESIGN CORRELATIONS AND PROGRAMS USE SAFETY HAMMER N-VALUES. EQUIVALENT SAFETY HAMMER N-VALUES FOR DESIGN PURPOSES CAN BE OBTAINED FROM THE FOLLOWING SOURCE: https://www.fhwa.dot.gov/ohp/soils/soiltest/soiltest.cfm
*** LATITUDE AND LONGITUDE ARE APPROXIMATE, BASED ON HANDHELD GPSMap GARMIN 785. ACTUAL BORING LOCATIONS COULD VARY

DRAWN BY: NG CHECKED BY: KV	APPROVED BY: RK DATE: 03-23-2021	ENGINEER OF RECORD: RAJ KRISHNASAMY, P.E. FLORIDA LICENSE NO.: 53567	 TIERRA SOUTH FLORIDA 2765 VISTA PARKWAY, S-10 WEST PALM BEACH, FL 33411	SCALE: NTS	PROJECT NUMBER: 7111-21-090	SOIL PROFILES SEVILLE STREET AND SEBASTIAN STREET REPLACEMENT AT INTRACOSTAL WATERWAY HOLLYWOOD, FLORIDA	Sheet: 3
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**Seville Street and Sebastian Street Replacements
at Intracoastal Waterway
Fort Lauderdale, FL
TSF Project No. 7111-21-090
Pavement and Base Material Data Sheet**

Latitude	Longitude	Core ID	Core Date	Number of Estimated	Pavement Layers (in.)						Total Length (m.)	Base Material		Subgrade		Crack Depth (in.)	Pavement Condition*	Rut Depth (in.)	Cross Slope (%)	Cross Slope Direction	Notes
					Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6		Base Stratum 1 LR	Total Base Thickness (in.)	Type Stratum	Thickness (in.)						
26.124217	-80.105699	PC-1	3/20/2021	3	1	0.8	0.8					6	6.0	GRANULAR SAND WITH TRACE SHELL	12.0	2.6	Good	0.1	1	Out	FULL DEPTH CRACK.
26.124725	-80.105534	PC-2	3/20/2021	2				1.3	1.7			8	8.0	GRANULAR SAND WITH TRACE SHELL	10.0	3	Good	0.1	5.2	Out	FULL DEPTH CRACK - CORE IN UNDERLYING JOINT. POSSIBLE LAYER SEPARATION
26.125446	-80.105683	PC-3	3/20/2021	2				1	1.8			7	7.0	GRANULAR SAND WITH TRACE SHELL	10.0	2.8	Good	0.1	5.2	Out	FULL DEPTH CRACK - CORE IN UNDERLYING JOINT.
26.125859	-80.105791	PC-4	3/20/2021	1	1.7							10	10.0	GRANULAR SAND WITH TRACE SHELL AND PHOSPHATE	6.0	-	Good	0.1	0.7	Out	

Note - Latitude and Longitude are approximate

ESTIMATE OF ASPHALT TYPE *
 Pavement Layer Code (1) SP1F
 Pavement Layer Code (2) SP1F
 Pavement Layer Code (3) SP1F
 Pavement Layer Code (4) SP2F
 Pavement Layer Code (5) SP2C

Pavement Conditions:

G = Good
 F = Fair
 P = Poor
 B = Bad

* Pavement conditions based on visual observations only.

Core Photos
Seville Street and Sebastian Street Replacements
at Intracoastal Waterway
Fort Lauderdale, FL
TSF Project No. 7111-21-090



Stabilized Subgrade? GRANULAR
 SAND WITH TRACE SHELL
 Stabilized Subgrade Thickness (in.) 12
 Crack * Depth (in.) 2.6
 Full Depth Crack? YES
 Pavement Condition Good
 Rut Depth (in.) 0.1
 Cross Slope (%) 1
 Cross Slope Direction Out
 Comments FULL DEPTH CRACK.

Core ID PC-1
 Core Date 3/20/2021
 Latitude 26.124217
 Longitude -80.105699
 Lane R1
 Roadway Sebastian
 Pavement Layer 1 SP1F 1
 Pavement Layer 2 SP1F 0.8
 Pavement Layer 3 SP1F 0.8
 Pavement Layer 4 SP2F
 Pavement Layer 5 SP2C
 Total Core Length (in.) 2.6
 Base Material Thickness (in.) 1 LR 6



Stabilized Subgrade? GRANULAR
 SAND WITH TRACE SHELL
 Stabilized Subgrade Thickness (in.) 10
 Crack * Depth (in.) 3
 Full Depth Crack? YES
 Pavement Condition Good
 Rut Depth (in.) 0.1
 Cross Slope (%) 5.2
 Cross Slope Direction Out
 Comments FULL DEPTH CRACK.
 CORE IN UNDERLYING JOINT.
 POSSIBLE LAYER SEPARATION

Core ID PC-2
 Core Date 3/20/2021
 Latitude 26.124725
 Longitude -80.105534
 Lane R1
 Roadway N. Birch Rd
 Pavement Layer 1 SP1F
 Pavement Layer 2 SP1F
 Pavement Layer 3 SP1F
 Pavement Layer 4 SP2F 1.3
 Pavement Layer 5 SP2C 1.7
 Total Core Length (in.) 3
 Base Material Thickness (in.) 1 LR 8

Core Photos
Seville Street and Sebastian Street Replacements
at Intracoastal Waterway
Fort Lauderdale, FL
TSF Project No. 7111-21-090



Core ID PC-3
 Core Date 3/20/2021
 Latitude 26.125446
 Longitude -80.105683
 Lane L1
 Roadway N. Birch Rd
 Pavement Layer 1 SPIF
 Pavement Layer 2 SPIF
 Pavement Layer 3 SPIF
 Pavement Layer 4 SP2F 1
 Pavement Layer 5 SP2C 1.8
 Total Core Length (in.) 2.8
 Base Material Thickness (in.) 1 LR 7

Stabilized Subgrade? GRANULAR SAND WITH TRACE SHELL
 Stabilized Subgrade Thickness (in.) 10
 Crack * Depth (in.) 2.8
 Full Depth Crack? YES
 Pavement Condition Good
 Rut Depth (in.) 0.1
 Cross Slope Direction Out
 Cross Slope (%) 5.2
 Comments FULL DEPTH CRACK. CORE IN UNDERLYING JOINT.



Core ID PC-4
 Core Date 3/20/2021
 Latitude 26.125859
 Longitude -80.105791
 Lane R1
 Roadway Seville
 Pavement Layer 1 SPIF 1.7
 Pavement Layer 2 SPIF
 Pavement Layer 3 SPIF
 Pavement Layer 4 SP2F
 Pavement Layer 5 SP2C
 Total Core Length (in.) 1.7
 Base Material Thickness (in.) 1 LR 10

Stabilized Subgrade? GRANULAR SAND WITH TRACE SHELL AND PHOSPHATE
 Stabilized Subgrade Thickness (in.) 6
 Crack * Depth (in.) -
 Full Depth Crack?
 Pavement Condition Good
 Rut Depth (in.) 0.1
 Cross Slope (%) 0.7
 Cross Slope Direction Out
 Comments

Seville Street and Sebastian Street Replacements
at Intracoastal Waterway
Fort Lauderdale, FL
TSF Project No. 7111-21-090
Soil Parameters Table for Foundation Design

Structure Location/Information	N-Value (Automatic Hammer)	N-Value (Equivalent Safety Hammer)	Soil Type	Approx. Unit Weight (pcf)	Approx. Submerged Unit Weight (pcf)	Soil Angle of Friction (Degrees)	
Reference B-1 Boring No. 1 0.5 FT TO 0.5 FT - ASPHALT 0.5 FT TO 1.0 FT - LIMESTONE BASE (FILL) 1.0 FT TO 8.0 FT - LIGHT BROWN TO BROWN SAND (SP) WITH TRACE SHELL 8.0 FT TO 13.0 FT - DARK GRAY ORGANIC SILT (ML) 13.0 FT TO 18.0 FT - LIGHT BROWN TO BROWN SAND (SP) WITH TRACE TO SOME PHOSPHATE 18.0 FT TO 26.0 FT - GRAY SANDY LIMESTONE WITH TRACE SILT 26.0 FT TO 28.0 FT - LIGHT BROWN TO BROWN SAND (SP) WITH TRACE SHELL AND TRACE TO SOME PHOSPHATE 28.0 FT TO 36.0 FT - LIGHT BROWN SANDY LIMESTONE 36.0 FT TO 38.0 FT - LIGHT BROWN TO BROWN SAND (SP) WITH TRACE LIMESTONE 38.0 FT TO 40.0 FT - LIGHT BROWN TO BROWN SAND (SP) WITH TRACE SHELL AND TRACE TO SOME PHOSPHATE	55	68	ASPHIBASE/SP	125	62.6	34	
	13	16	SP	110	47.6	30	
	6	11	SP	110	47.6	30	
	9	9	SP	105	42.6	29	
	10	0	ML	100	37.6	26	
	12	0	ML	100	37.6	26	
	15	0	ML/SP	100	37.6	26	
	17	6	SP	105	42.6	29	
	20	47	SP/LIMESTONE	120	67.6	34	
	22	35	LIMESTONE	120	67.6	33	
	25	9	LIMESTONE	105	52.6	29	
	27	4	LIMESTONE/SP	105	42.6	28	
	30	10	SP/LIMESTONE	105	42.6	30	
	32	8	LIMESTONE	105	42.6	30	
	35	10	LIMESTONE	105	42.6	30	
	37	11	LIMESTONE/SP	110	47.6	30	
	40	9	SP	110	47.6	30	
	42	10	SP	110	47.6	30	
	45	17	SP	115	52.6	32	
	NOTE - A ZERO BLOW COUNT VALUE USED TO DISCOUNT THE ML LAYER FROM 8 TO 13 FT						
	Soil Parameters based on Weighted Averages, per Depth of wall, from 10-foot to 44-foot, on 2-foot intervals						
Depth (ft)	N-Value (Automatic Hammer)	N-Value (Equivalent Safety Hammer)	Soil Type Modelled As	Approx. Unit Weight (pcf)	Approx. Submerged Unit Weight (pcf)	Soil Angle of Friction (Degrees)	
Weighted Average (0-10 ft):	17	21	Sand	115	52.6	32	
Weighted Average (0-12 ft):	17	21	Sand	115	52.6	32	
Weighted Average (0-14 ft):	13	16	Sand	110	47.6	30	
Weighted Average (0-16 ft):	11	14	Sand	110	47.6	30	
Weighted Average (0-18 ft):	10	12	Sand	110	47.6	30	
Weighted Average (0-20 ft):	15	19	Sand	110	47.6	30	
Weighted Average (0-22 ft):	15	19	Sand	110	47.6	30	
Weighted Average (0-24 ft):	16	20	Sand	110	47.6	30	
Weighted Average (0-26 ft):	15	19	Sand	110	47.6	30	
Weighted Average (0-28 ft):	14	17	Sand	110	47.6	30	
Weighted Average (0-30 ft):	14	17	Sand	110	47.6	30	
Weighted Average (0-32 ft):	14	17	Sand	110	47.6	30	
Weighted Average (0-34 ft):	13	16	Sand	110	47.6	30	
Weighted Average (0-36 ft):	13	16	Sand	110	47.6	30	
Weighted Average (0-38 ft):	13	16	Sand	110	47.6	30	
Weighted Average (0-40 ft):	12	15	Sand	110	47.6	30	
Weighted Average (0-42 ft):	12	15	Sand	110	47.6	30	
Weighted Average (0-44 ft):	12	15	Sand	110	47.6	30	

Note 1: The Weighted Average N-Value for various depths has been converted to equivalent N-Value of safety hammer if a automatic hammer was used.

Note 2: Submerged condition should be considered in the foundation design.

Seville Street and Sebastian Street Replacements
at Intracoastal Waterway
Fort Lauderdale, FL
TSF Project No. 7111-21-090
Soil Parameters Table for Foundation Design

Structure Location/Information	N-Value (Automatic Hammer)	N-Value (Equivalent Safety Hammer)	Soil Type	Approx. Unit Weight (pcf)	Approx. Submerged Unit Weight (pcf)	Soil Angle of Friction (Degrees)	
Reference B-2 Boring No. 10.0 FT TO 0.25 FT - ASPHALT 0.25 FT TO 1.16 FT - LIMESTONE BASE (FILL) 1.16 FT TO 2.0 FT - LIGHT BROWN TO BROWN SAND WITH TRACE SILT (SP-SM) WITH TRACE TO SOME PHOSPHATE 2.0 FT TO 6.0 FT - LIGHT BROWN TO BROWN SAND (SP) WITH TRACE SHELL 6.0 FT TO 13.0 FT - LIGHT BROWN TO BROWN SAND (SP) WITH TRACE TO SOME PHOSPHATE 13.0 FT TO 15.5 FT - ORGANIC PEAT (PT) 15.5 FT TO 17.0 FT - LIGHT BROWN TO BROWN SAND (SP) WITH TRACE TO SOME PHOSPHATE 17.0 FT TO 23.0 FT - GRAY SANDY LIMESTONE WITH TRACE SILT 23.0 FT TO 33.0 FT - LIGHT BROWN SANDY LIMESTONE 33.0 FT TO 38.0 FT - LIGHT BROWN TO BROWN SAND (SP) WITH TRACE LIMESTONE 38.0 FT TO 43.0 FT - LIGHT BROWN TO BROWN SAND (SP)	13	16	ASPH/CLAY/SP-SM	110	47.6	30	
	7	9	SP	105	42.6	29	
	8	10	SP	100	37.6	26	
	10	10	SP	105	42.6	30	
	12	10	SP	105	42.6	28	
	15	10	PT/SP	100	37.6	26	
	17	10	SP	100	37.6	26	
	20	10	SP	125	62.6	34	
	22	10	SP	125	62.6	34	
	25	10	SP	125	62.6	34	
	27	10	SP	125	62.6	34	
	30	10	SP	125	62.6	34	
	32	10	SP	125	62.6	34	
	35	10	SP	125	62.6	34	
	37	10	SP	125	62.6	34	
	40	10	SP	125	62.6	34	
	42	10	SP	125	62.6	34	
	45	10	SP	125	62.6	34	
	NOTE - WEIGHT OF HAMMER AT 15 AND 17.5 AND LIMITED BELOWS AT 20 AND 22.5 TO 60						
	Soil Parameters based on Weighted Averages, per Depth of wall, from 10-foot to 44-foot, on 2-foot intervals						
Depth (ft)	N-Value (Automatic Hammer)	N-Value (Equivalent Safety Hammer)	Soil Type Modelled As	Approx. Unit Weight (pcf)	Approx. Submerged Unit Weight (pcf)	Soil Angle of Friction (Degrees)	
Weighted Average (0-10 ft):	7	9	Sand	105	42.6	29	
Weighted Average (0-12 ft):	7	9	Sand	105	42.6	29	
Weighted Average (0-14 ft):	6	7	Sand	105	42.6	29	
Weighted Average (0-16 ft):	5	6	Sand	105	42.6	29	
Weighted Average (0-18 ft):	4	5	Sand	105	42.6	29	
Weighted Average (0-20 ft):	11	14	Sand	110	47.6	30	
Weighted Average (0-22 ft):	11	14	Sand	110	47.6	30	
Weighted Average (0-24 ft):	17	21	Sand	115	52.6	32	
Weighted Average (0-26 ft):	16	20	Sand	110	47.6	30	
Weighted Average (0-28 ft):	15	19	Sand	110	47.6	30	
Weighted Average (0-30 ft):	14	17	Sand	110	47.6	30	
Weighted Average (0-32 ft):	14	17	Sand	110	47.6	30	
Weighted Average (0-34 ft):	13	16	Sand	110	47.6	30	
Weighted Average (0-36 ft):	13	16	Sand	110	47.6	30	
Weighted Average (0-38 ft):	12	15	Sand	110	47.6	30	
Weighted Average (0-40 ft):	12	15	Sand	110	47.6	30	
Weighted Average (0-42 ft):	12	15	Sand	110	47.6	30	
Weighted Average (0-44 ft):	12	15	Sand	110	47.6	30	

Note 1: The Weighted Average N-Value for various depths has been converted to equivalent N-Value of safety hammer if a automatic hammer was used.

Note 2: Submerged condition should be considered in the foundation design.

APPENDIX C – PRELIMINARY STRUCTURAL PLANS

PROJECT # 12549
SEAWALL REPLACEMENT
DETAILS

SEBASTIAN AND SEVILLE
12549-MULTI-DET
DRAWING FILE NO.
4-200-00

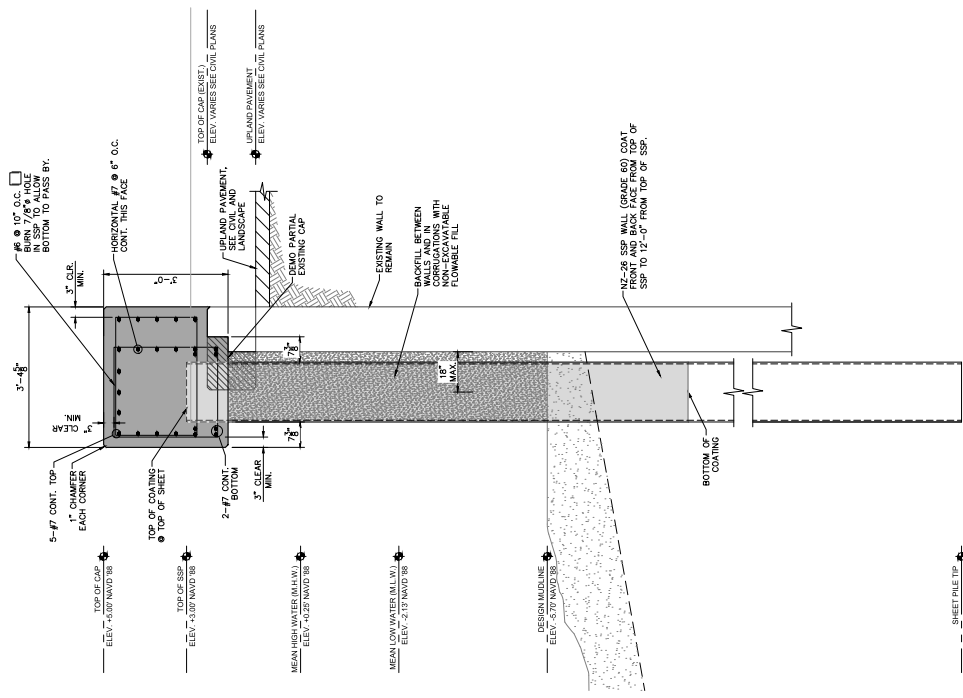
NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DESIGNED BY: AS NOTED	DATE: 8/19/2024
CHECKED BY: JF	SCALE: AS NOTED
PROJECT NO: 12549	PROJECT NAME: SEAWALL REPLACEMENT
DRAWN BY: ALMINE GERTZMAN	DATE: 8/19/2024
SCALE: AS NOTED	PROJECT NO: 12549
PROJECT NAME: SEAWALL REPLACEMENT	PROJECT NO: 12549

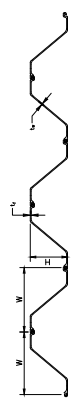
PREPARED BY:
Kimley-Horn
KIMLEY-HORN AND ASSOCIATES, INC.
8201 FEEDS ROAD, SUITE 2000, PLANTATION, FL 33324
PHONE: 954-355-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM REGISTRY NO. 25106

NOT FOR CONSTRUCTION



NOTE:
XXX XXX X XX X X XXX
3 BULKHEAD WALL
SCALE 3/4" = 1'-0"

THE PRESENCE OF GROUNDWATER SHOULD BE
CONSIDERED IN THE DESIGN OF THIS WALL.
INCLUDE CONSIDERATION FOR ADDRESSING THIS
ISSUE AND OBTAINING ALL NECESSARY PERMITS.



SECTION	THICKNESS	HEIGHT	SECTION MODULUS	COATING AREA
SE 28	11.52	14.00	48.00	6.40

NOTE:
XXX XXX X XX X X XXX
2 TYPICAL WALL SECTION
SCALE 3/4" = 1'-0"

Kimley-Horn & Associates, Inc.
Call Kimley-Horn at 954-355-5100
www.kimley-horn.com

APPENDIX D – REPRESENTATIVE PHOTOGRAPHS

City of Fort Lauderdale Sebastian
and Seville Seawall Replacement
Representative Photographs

Photo No. 1



Remarks:

Sebastian Street

Photo No. 2



Remarks:

Sebastian Street

Photo No. 3



Remarks:

Sebastian Street

Photo No. 4



Remarks:

Sebastian Street

Photo No. 5



Remarks:

Seville Street

Photo No. 6



Remarks:

Seville Street

City of Fort Lauderdale Sebastian
and Seville Seawall Replacement
Representative Photographs

Photo No. 7



Remarks:

Seville Street

Photo No. 8



Remarks:

Seville Street

City of Fort Lauderdale Sebastian
and Seville Seawall Replacement
Representative Photographs

Photo No. 9



Remarks:

Seville Street

Photo No. 10



Remarks:

Seville Street

Photo No. 11



Remarks:

Seville Street

Photo No. 12



Remarks:

Seville Street

APPENDIX E - SEAGRASS SURVEY – SEBASTIAN STREET BY KIMLEY- HORN

Benthic Resources Report

Sebastian Street Seawall Replacement Broward County, Florida

Prepared for:

City of Fort Lauderdale
Public Works Department Engineering
101 NE 3rd Avenue Suite 1420
Fort Lauderdale, FL 33301

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Kimley-Horn and Associates, Inc.
1920 Wekiva Way, Suite 200
West Palm Beach, FL 33411
561-845-0665
043184256

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2.0	PROJECT DESCRIPTION	1
3.0	METHODOLOGY	1
4.0	RESULTS.....	2
5.0	SUMMARY & CONCLUSIONS	3

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Figure 1: Project Location Map

Figure 2: Aerial Map

Figure 3: Submerged Aquatic Vegetation (SAV) Map

Appendices

Appendix A - Photographic Log

Appendix B - *Standard Manatee Conditions for In-Water Work*

Appendix C - *Grates and Other Manatee Exclusion Devices for Culverts and Pipes*

Benthic Resources Report
Technical Memorandum

Sebastian Street Seawall Replacement
Broward County, FL

1.0 INTRODUCTION

The following technical memorandum summarizes the results of a seagrass and benthic resources survey and field reconnaissance conducted by Kimley-Horn and Associates, Inc. (Kimley-Horn) on July 9th, 2024, on Sebastian Street in the City of Fort Lauderdale, Florida (***Figure 1 – Location Map & Figure 2 – Aerial Map***). Kimley-Horn’s scope of services included conducting an in-water survey of the area within ± 50 feet of the proposed seawall project. The survey was conducted to determine the presence or absence of seagrass and/or benthic resources that could potentially be affected by the seawall replacement that spans approximately ± 50 linear feet.

2.0 PROJECT DESCRIPTION

The proposed project is located with a center coordinate of 26° 7'27.12"N and 80° 6'22.35"W in the City of Fort Lauderdale, Florida in Section 01, Township 50 South, and Range 42 East. The project area consists of an approximately 50 linear foot seawall at the west end of Sebastian Street and along the east side of the Intracoastal Waterway (ICWW). The existing seawall consists of a concrete panel wall with a concrete cap and two (2) stormwater outfalls.

3.0 METHODOLOGY

The methodology for identifying potential seagrass and benthic resources within the survey area included a review of the following resources:

- Florida Department of Environmental Protection (FDEP) GIS database (<https://ca.dep.state.fl.us/mapdirect/>)
- Florida Fish and Wildlife Research Institute (FWRI) GIS database (<https://geodata.myfwc.com/>)
- South Florida Water Management District (SFWMD) GIS database (<https://geo-sfwmd.hub.arcgis.com/>)

- National Oceanic and Atmospheric Administration (NOAA) Essential Fish Habitat (EFH) GIS database (<https://www.habitat.noaa.gov/apps/efhmapper/>)
- Aerial Photographs and Street Maps

The survey was conducted by swimming transects within the proposed project footprint. The transects ran parallel to the seawall and were spaced approximately 8-10 feet apart. A quantitative and qualitative sampling of each transect was conducted by two biologists using snorkeling gear. Substrate type and percent coverage and species composition of seagrasses (if applicable), as well as the occurrence of other benthic resources, were documented within the survey area. The in-water survey was conducted on July 9th, 2024, during an incoming (high) tide. The presence or absence of seagrass was documented in addition to any other benthic resources. See **Figure 2 – Aerial Map** for the location of the survey area.

Table 1 - Environmental Conditions During Seagrass Survey						
Date	Biologists	Survey Time	Weather Condition	Visibility (feet)	Tide (Start)	Tide (End)
07/09/2024	LC, BC	10:00am-11:00am	85 degrees, partly cloudy	2 ft	High	High

4.0 RESULTS

Seagrass and benthic resources were observed within the survey area (see **Figure 3 – Submerged Aquatic Vegetation (SAV) Map**). The benthic community of the survey area consisted of a silt substrate with fuzzy finger algae, crushed shells, and leaf litter. Depths within the survey area varied from 4’-8’, with depths increasing waterward of the seawall. Eastern oyster (*Crassostrea virginica*) clusters were observed along the length of the seawall. One (1) species of seagrass was observed within the survey area: paddle grass (*Halophila decipiens*) with 1-5% coverage. The paddle grass was observed with sparse coverage along a transect approximately ± 20 feet waterward of the seawall. Additionally, one 4x4-foot patch of paddle grass was observed in the southern portion of the survey area, approximately ± 5 feet waterward of the seawall.

The species of fish observed during the in-water survey included the checkered puffer (*Sphoeroides testudineus*), mangrove snapper (*Lutjanus griseus*), and porkfish (*Anisotremus virginicus*). Additional

wildlife species observed during the survey was limited to the green iguana (*Iguana iguana*). See **Appendix A – Photographic Log** for photographs of the project area.

5.0 SUMMARY & CONCLUSIONS

Based on this site visit and benthic resources survey, seagrass and benthic resources appear to be present in the survey area, however, no impacts to seagrass are anticipated based on the proposed project. The contractor will follow Best Management Practices (BMPs) such as floating turbidity barriers during construction to reduce any potential runoff into the Intracoastal waterway. Additionally, the contractor will follow an approved Stormwater Pollution Prevention Plan (SWPPP) including erosion and sediment controls that will be implemented and maintained throughout all construction phases.

Although the West Indian manatee (*Trichechus manatus latirostris*) was not observed during field reconnaissance, marginal habitat exists within the project area. It is recommended that the project implements the **Standard Manatee Conditions for In-Water Work (Appendix B)** throughout construction. Additionally, all existing or proposed outfalls greater than 8 inches in diameter should contain a manatee grate that complies with Florida Fish and Wildlife (FWC) **Grates and Other Manatee Exclusion Devices for Culverts and Pipes** (October 2015) (**Appendix C**) to prevent manatee entrapment.

FIGURES

Figure 1: Project Location Map

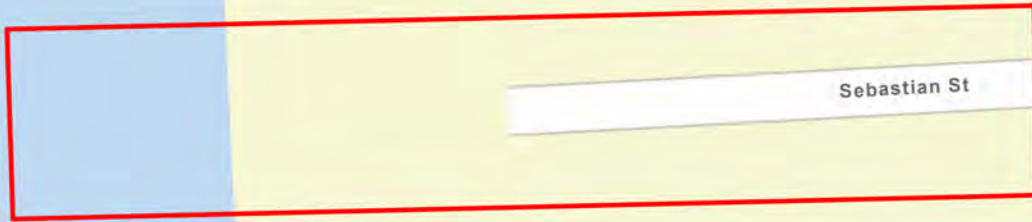
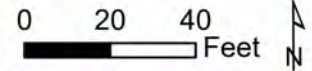
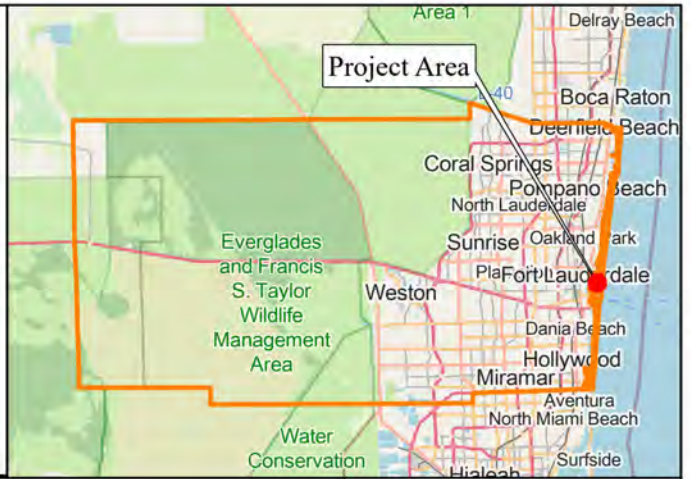
Figure 2: Aerial Map

Figure 3: Submerged Aquatic Vegetation (SAV) Map

Broward County



Project Area



Legend

Project Area

K:\WPB_GIS\WPB_Environmental\043184256 - Sebastian & Seville Seawall Replacement\MXD\NRA Figures\

Source: ESRI, FDOT, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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1920 Wekiva Way, STE 200
West Palm Beach, FL 33411
Phone (561) 845-0665
www.kimley-horn.com

Project Location Map

Sebastian Street Seawall Replacement
Broward County, Florida

1 inch = 40 feet

PROJECT NUMBER: 043184256

JULY 2024

FIGURE 1

6HEDVWLDQ 6HYLOOH 6HDZDOO 5HSODFHPHQW?0:'.?15\$)LJXUHV?
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Kimley»Horn

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Kimley»Horn

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ZZZ NLPOH\ KRUG FRP

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LQFK IHHW - (& 180% (5 , -8/<), *85(

Appendix A: Photographic Log



Photo 1 – Photo of Sebastian St seawall facing southwest. Note concrete panel wall and two storm drains with outfalls.



Photo 2 – Photo of Sebastian St seawall facing northwest. Note concrete panel wall and two storm drains with outfalls.

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PHOTOGRAPHIC LOG

**Sebastian Street Seawall Replacement
 Broward County, Florida**

SCALE: NTS

PROJECT NO 043184256

DATE JULY 2024

PAGE 1



Photo 3 – Photo of survey area. Note silt and crushed shells substrate and presence of fuzzy finger algae.



Photo 4 – Photo of survey area. Note silt and crushed shells substrate and presence of fuzzy finger algae.


 <p>© 2024 Kimley-Horn and Associates, Inc. 1920 Wekiva Way Suite 200 West Palm Beach, FL 33411 561 845 0665 www.kimley-horn.com</p>	PHOTOGRAPHIC LOG		
	Sebastian Street Seawall Replacement Broward County, Florida		
	SCALE: NTS	PROJECT NO 043184256	DATE JULY 2024



Photo 5 – Photo of survey area. Note one of the two outfalls and oysters on sea wall.



Photo 6 – Photo of survey area. Note oysters on sea wall.

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PHOTOGRAPHIC LOG

**Sebastian Street Seawall Replacement
 Broward County, Florida**

SCALE: NTS

PROJECT NO 043184256

DATE JULY 2024

PAGE 3



Photo 7 – Photo of survey area. Note silt substrate and presence of paddle grass (*Halophila decpiens*) with sparse coverage.



Photo 8 – Photo of survey area. Note silt substrate and presence of paddle grass (*Halophila decpiens*) with sparse coverage.

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PHOTOGRAPHIC LOG

**Sebastian Street Seawall Replacement
 Broward County, Florida**

SCALE: NTS

PROJECT NO 043184256

DATE JULY 2024

PAGE 4

Appendix B: *Standard Manatee Conditions for In-Water Work*

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
- b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.
- d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.
- e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or in Vero Beach (1-772-562-3909) for south Florida, and emailed to FWC at ImperiledSpecies@myFWC.com.
- f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8½" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at http://www.myfwc.com/WILDLIFEHABITATS/manatee_sign_vendors.htm. Questions concerning these signs can be forwarded to the email address listed above.

CAUTION: MANATEE HABITAT

All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work
all in-water activities must

SHUT DOWN

Report any collision with or injury to a manatee:

Wildlife Alert:

1-888-404-FWCC(3922)

cell *FWC or #FWC



**Appendix C: *Grates and Other Manatee Exclusion Devices for Culverts and
Pipes***

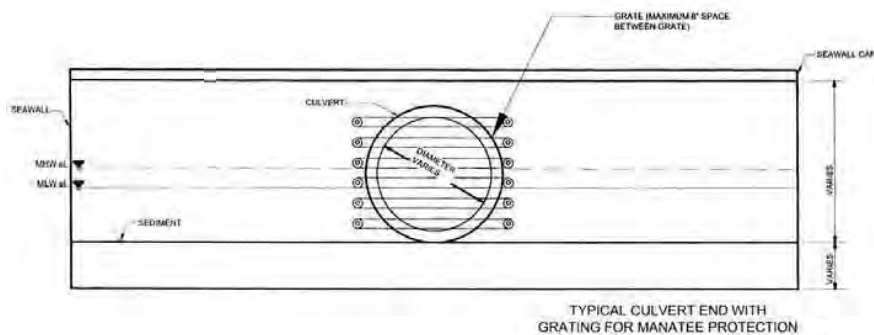


Grates and Other Manatee Exclusion Devices for Culverts and Pipes

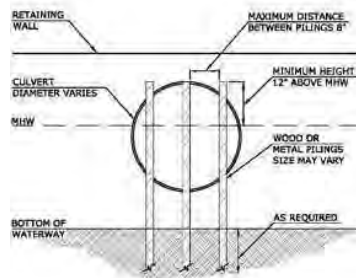
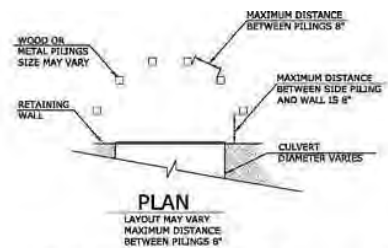
October 2015

Numerous manatees have died from starvation or drowning after becoming stranded in culverts and pipes (such as storm water drains, dead-end culverts, etc.). Numerous manatees have been rescued from these structures, which seem to attract manatees due to the flow of fresh water, or the access that pipes or structures provide to other habitat. Because they cannot swim backwards, manatees can become entrapped when entering long or dead-end culverts.

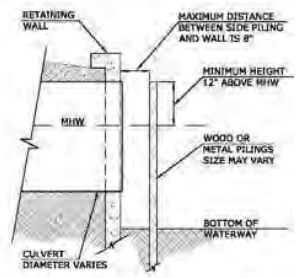
There are various ways to preclude manatees from entering risky culverts and pipes, including grates, pilings, flap gates, and in some circumstances, valves. If a pipe or culvert is greater than 8 inches in diameter, but smaller than 8 feet, it is a possible risk to manatees because there is not enough room to turn around. Bars or pilings should be no more than 8 inches apart in front of the entrance to restrict manatee access. Bars on grates can be diagonal, horizontal or vertical, and grates can be hinged (swinging outwards) if needed so that debris can escape from inside the pipe.



NOTE: Not all culverts and pipes present a risk to manatees, and some provide needed corridors for other wildlife. The decision to allow a culvert to remain accessible to manatees will depend on culvert length, water level, available habitat and other risk factors. These situations can be evaluated on a case-by-case basis by the FWC.



FRONT VIEW
LAYOUT MAY VARY
MAXIMUM DISTANCE
BETWEEN PILING IS 8"



SECTION

CULVERT ALTERNATIVE MANATEE BARRIER
N.T.S.

APPENDIX F – SEAGRASS SURVEY – SEVILLE STREET BY KIMLEY- HORN

Benthic Resources Report

Seville Street Seawall Replacement Broward County, Florida

Prepared for:

City of Fort Lauderdale
Public Works Department Engineering
101 NE 3rd Avenue Suite 1420
Fort Lauderdale, FL 33301

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3.0	METHODOLOGY	1
4.0	RESULTS.....	2
5.0	SUMMARY & CONCLUSIONS	3

Figures

Figure 1: Project Location Map

Figure 2: Aerial Map

Appendices

Appendix A - Photographic Log

Appendix B - *Standard Manatee Conditions for In-Water Work*

Appendix C - *Grates and Other Manatee Exclusion Devices for Culverts and Pipes*

Benthic Resources Report
Technical Memorandum

Seville Street Seawall Replacement
Broward County, FL

1.0 INTRODUCTION

The following technical memorandum summarizes the results of a seagrass and benthic resources survey and field reconnaissance conducted by Kimley-Horn and Associates, Inc. (Kimley-Horn) on July 9th, 2024, on Seville Street in the City of Fort Lauderdale, Florida (**Figure 1 – Location Map & Figure 2 – Aerial Map**). Kimley-Horn’s scope of services included conducting an in-water survey of the area within ± 50 feet of the proposed seawall project. The survey was conducted to determine the presence or absence of seagrass and/or benthic resources that could potentially be affected by the seawall replacement that spans approximately ± 50 linear feet.

2.0 PROJECT DESCRIPTION

The proposed project is located with a center coordinate of 26° 7'33.08"N and 80° 6'22.23"W in the City of Fort Lauderdale, Florida in Section 01, Township 50 South, and Range 42 East. The project area consists of an approximately 50 linear foot seawall at the west end of Seville Street and along the east side of the Intracoastal Waterway (ICWW). The existing seawall consists of a concrete panel wall with a footer, concrete batter piles, and one (1) stormwater outfall.

3.0 METHODOLOGY

The methodology for identifying potential seagrass and benthic resources within the survey area included a review of the following resources:

- Florida Department of Environmental Protection (FDEP) GIS database (<https://ca.dep.state.fl.us/mapdirect/>)
- Florida Fish and Wildlife Research Institute (FWRI) GIS database (<https://geodata.myfwc.com/>)
- South Florida Water Management District (SFWMD) GIS database (<https://geo-sfwmd.hub.arcgis.com/>)

- National Oceanic and Atmospheric Administration (NOAA) Essential Fish Habitat (EFH) GIS database (<https://www.habitat.noaa.gov/apps/efhmapper/>)
- Aerial Photographs and Street Maps

The survey was conducted by swimming transects within the proposed project footprint. The transects ran parallel to the seawall and were spaced approximately 8-10 feet apart. A quantitative and qualitative sampling of each transect was conducted by two biologists using snorkeling gear. Substrate type and percent coverage and species composition of seagrasses (if applicable), as well as the occurrence of other benthic resources, were documented within the survey area. The in-water survey was conducted on July 9th, 2024, during an incoming (high) tide. The presence or absence of seagrass was documented in addition to any other benthic resources. See **Figure 2 – Aerial Map** for the location of the survey area.

Table 1 - Environmental Conditions During Seagrass Survey						
Date	Biologists	Survey Time	Weather Condition	Visibility (feet)	Tide (Start)	Tide (End)
07/09/2024	LC, BC	8:45am-9:45am	85 degrees, cloudy	2 ft	High	High

4.0 RESULTS

No species of seagrass were observed within the project area. The benthic community of the survey area consisted of a silt substrate with fuzzy finger algae, crushed shells, and leaf litter. Depths within the survey area varied from 4'-8', with depths increasing waterward of the seawall. Eastern oyster (*Crassostrea virginica*) clusters were observed along the length of the seawall.

The species of fish observed during the in-water survey included the checkered puffer (*Sphoeroides testudineus*), mangrove snapper (*Lutjanus griseus*), and porkfish (*Anisotremus virginicus*). Additional wildlife species observed during the survey was limited to the green iguana (*Iguana iguana*). See **Appendix A – Photographic Log** for photographs of the project area.

5.0 SUMMARY & CONCLUSIONS

Based on this site visit and benthic resources survey, seagrass and benthic resources do not appear to be present in the survey area. However, the contractor will still follow Best Management Practices (BMPs) such as floating turbidity barriers during construction to reduce any potential runoff into the Intracoastal Waterway. Additionally, the contractor will follow an approved Stormwater Pollution Prevention Plan (SWPPP) including erosion and sediment controls that will be implemented and maintained throughout all construction phases.

Although the West Indian manatee (*Trichechus manatus latirostris*) was not observed during field reconnaissance, marginal habitat exists within the project area. It is recommended that the project implements the **Standard Manatee Conditions for In-Water Work (Appendix B)** throughout construction. Additionally, all existing or proposed outfalls greater than 8 inches in diameter should contain a manatee grate that complies with Florida Fish and Wildlife (FWC) **Grates and Other Manatee Exclusion Devices for Culverts and Pipes** (October 2015) (**Appendix C**) to prevent manatee entrapment.

FIGURES

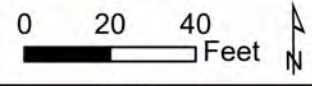
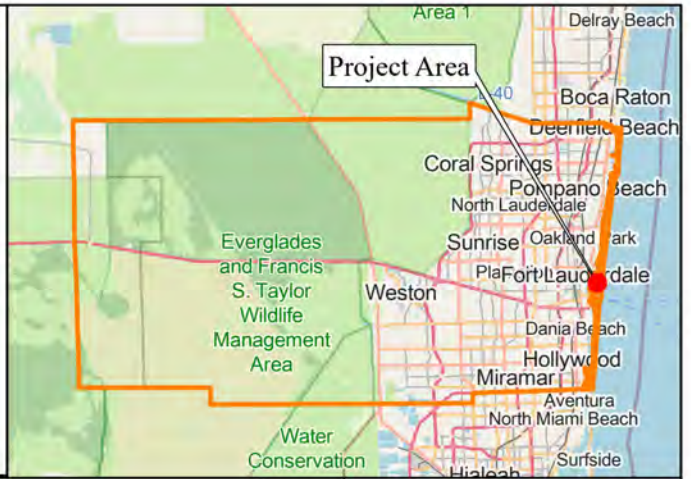
Figure 1: Project Location Map

Figure 2: Aerial Map

Broward County



Project Area



Legend

Project Area

K:\WPB_GIS\WPB_Environmental\043184256 - Sebastian & Seville Seawall Replacement\MXD\NRA Figures\

Source: ESRI, FDOT, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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Project Location Map

Seville Street Seawall Replacement Broward County, Florida

1 inch = 40 feet PROJECT NUMBER: 043184256 JULY 2024 FIGURE 1

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Kimley»Horn

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Appendix A: Photographic Log



Photo 1 – Photo of Seville St seawall facing Northwest. Note concrete panel wall with concrete cap.



Photo 2 – Photo of Seville St seawall facing South. Note concrete panel wall with concrete cap.

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PHOTOGRAPHIC LOG

**Seville Street Seawall Replacement
 Broward County, Florida**

SCALE: NTS

PROJECT NO 043184256

DATE JULY 2024

PAGE 1



Photo 3 – Photo of survey area. Note silt and crushed shells substrate and leaf litter.



Photo 4 – Photo of survey area. Note silt and crushed shells substrate and presence of fuzzy finger algae.

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PHOTOGRAPHIC LOG

**Seville Street Seawall Replacement
 Broward County, Florida**

SCALE: NTS

PROJECT NO 043184256

DATE JULY 2024

PAGE 2



Photo 5 – Photo of survey area. Note silt and crushed shells substrate.



Photo 6 – Photo of survey area. Note silt and crushed shells substrate and porkfish (*Anisotremus virginicus*) observed.

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PHOTOGRAPHIC LOG

**Seville Street Seawall Replacement
 Broward County, Florida**

SCALE: NTS

PROJECT NO 043184256

DATE JULY 2024


PAGE 3



Photo 7 – Photo of survey area. Note outfall and oysters on sea wall.



Photo 8 – Photo of survey area. Note oysters on sea wall and footer.

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	Seville Street Seawall Replacement Broward County, Florida		
	SCALE: NTS	PROJECT NO 043184256	DATE JULY 2024

Appendix B: *Standard Manatee Conditions for In-Water Work*

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
- b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.
- d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.
- e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or in Vero Beach (1-772-562-3909) for south Florida, and emailed to FWC at ImperiledSpecies@myFWC.com.
- f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8½" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at http://www.myfwc.com/WILDLIFEHABITATS/manatee_sign_vendors.htm. Questions concerning these signs can be forwarded to the email address listed above.

CAUTION: MANATEE HABITAT

All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work
all in-water activities must

SHUT DOWN

Report any collision with or injury to a manatee:

Wildlife Alert:

1-888-404-FWCC(3922)

cell *FWC or #FWC



**Appendix C: *Grates and Other Manatee Exclusion Devices for Culverts and
Pipes***

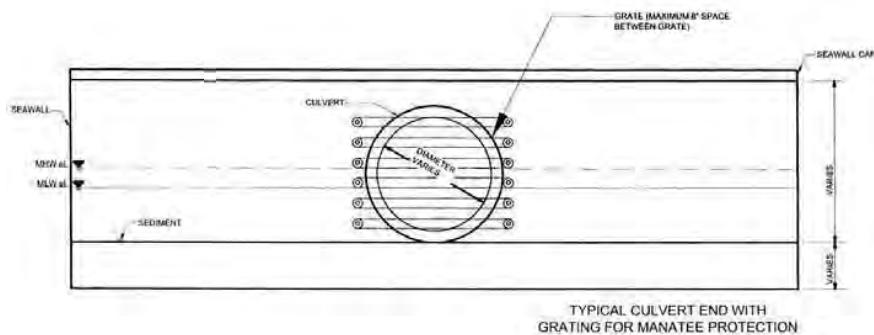


Grates and Other Manatee Exclusion Devices for Culverts and Pipes

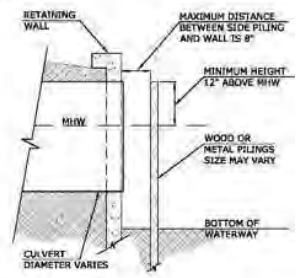
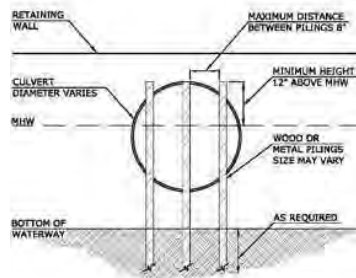
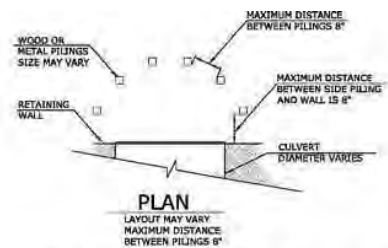
October 2015

Numerous manatees have died from starvation or drowning after becoming stranded in culverts and pipes (such as storm water drains, dead-end culverts, etc.). Numerous manatees have been rescued from these structures, which seem to attract manatees due to the flow of fresh water, or the access that pipes or structures provide to other habitat. Because they cannot swim backwards, manatees can become entrapped when entering long or dead-end culverts.

There are various ways to preclude manatees from entering risky culverts and pipes, including grates, pilings, flap gates, and in some circumstances, valves. If a pipe or culvert is greater than 8 inches in diameter, but smaller than 8 feet, it is a possible risk to manatees because there is not enough room to turn around. Bars or pilings should be no more than 8 inches apart in front of the entrance to restrict manatee access. Bars on grates can be diagonal, horizontal or vertical, and grates can be hinged (swinging outwards) if needed so that debris can escape from inside the pipe.



NOTE: Not all culverts and pipes present a risk to manatees, and some provide needed corridors for other wildlife. The decision to allow a culvert to remain accessible to manatees will depend on culvert length, water level, available habitat and other risk factors. These situations can be evaluated on a case-by-case basis by the FWC.



FRONT VIEW
LAYOUT MAY VARY
MAXIMUM DISTANCE
BETWEEN PILING IS 8"

SECTION

CULVERT ALTERNATIVE MANATEE BARRIER
N.T.S.

APPENDIX G – GIKEN PRESS-IN SYSTEM BROCHURE

Construction Revolution

Press-in Method Variations

SILENT PILING TECHNOLOGIES



GIKEN

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|| Press-in Method 2

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Features of the Press-in Method



When making a brief statement about the features of the Press-in Method, "Implant"™ Structure can be constructed under any working conditions while preserving the Five Construction Principles*. Features of the construction method are defined based on the "Five Construction Principles" and they are indicated in the following tables. The Press-in Method incorporates design features for evaluation of pile performance. This is a "revolutionary" approach where structural design is directly based upon results of pile load tests at site according to the principles of the Press-in Method.

Environmental Protection

Vibration-Free, Noise-Free,
In the Press-in Method, piles are installed by static load without noise and vibration so that construction work doesn't disturb neighbouring residents' daily life.

Minimum Working Extent
It is possible to minimise the influence range of construction works by utilising light-weight and compact press-in machines and well developed systemised equipment.

No Physical Influence on Surrounding Environment
The Press-in Method minimises the impact on the surrounding environment, such as ground subsidence and cracking in adjacent structures.

Extreme Reduction of Environmental Burden
The systemised equipment eliminates temporary works which are the cause of environmental destruction in construction and the minimal burden is significantly reduced.

Safety

Stable and Strong Wall Structures
Highly reliable and strong wall structures are achievable, as factory produced high quality piles are continuously and directly press-in.

No Machine Overturning
There is no risk of machine overturning since the press-in machine main body and system equipment grip piles which have been completely driven into the ground.

Safety Mechanism with Hydraulic System
The pile being pressed in is securely held at the bottom of pile with hydraulic jacking forces. This creates a safe construction environment as piles will not be contacted with surrounding structures.

Remote Radio Control
Since the press-in machine main body is operated by radio control, the operator and other workers can operate in safe conditions even in extremely physically restricted working conditions.

Speed

The Simplest Work Processes
The press-in machine can be installed and worked without auxiliary equipment in the shortest possible duration, even if there are strict working restrictions or the piling alignment is very complicated.

Self-Walking Machinery
It is possible to significantly reduce construction duration, since all systemised machinery has respective self-walking functions, which enable efficient and rational working conditions.

No Working Hour Limitation
Non-pulling press-in construction can be performed in any weather conditions. Work rates on the surroundings or at night when noise is not permitted. Rapid construction is, therefore, possible.

Multiple Units Operations
Since the system equipment is light weight and compact, it is possible to use multiple units at the same time. It can be used for various types of works, such as disaster recovery projects.

Economy

Standardisation of Pile Material
The use of standardised pile types and materials can reduce the cost-effectiveness of on-site works.

Cost Reduction by Temporary Construction Method
Construction height is reduced since it does not require auxiliary facilities for conventional piling works, such as temporary platform, earth works, road traffic control, scaffolding and other necessary works.

Labour-Saving & Energy Saving
Simple, systemised construction based on the Press-in Method and the use of machines and cranes for lifting piles requires minimum manpower.

No Disturbance to Urban Function
The Press-in Method can minimise working extent.

Aesthetics

Simple Systemised Construction
Construction work can be carried out smoothly by using the most appropriate construction methods to meet the requirements of the project.

Easy Handling
The pile top elevation and pile alignment can be controlled accurately and freely enough to construct complicated wall structures such as cut-off walls, corner alignments and cofferdams.

High-Quality Pile Wall Structure
Press-in piles, pushed through the soil and penetrated into the ground, become a highly unified implant. Square wall body.

Harmonised Appearance
Structures can be harmonised into surrounding scenery to construct culturally advanced buildings by applying special panels on piles or wall tops before their piling work is completed.

Press-in Method

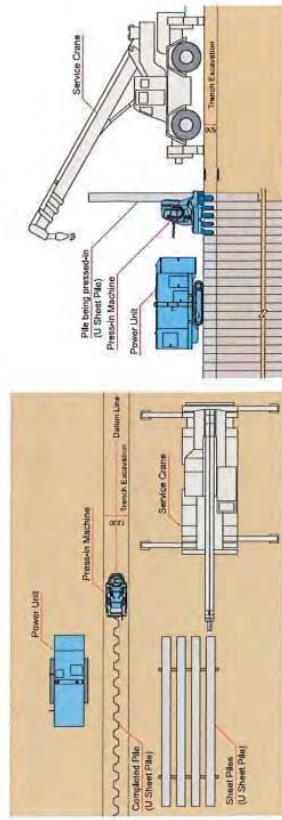
The appropriate use of press-in piles can create continuous pile walls suitable for construction purposes, structural function, quality, and scenery.

Standard Working Procedures

Standard Machine Layout

The Press-in Principle utilizes the reaction force derived from fully installed piles, which are anchored to the ground and are regarded as a united part of the Earth to install subsequent piles with a hydraulic system. Hence, A press-in machine is small and light weight, and can walk along the completed piles on its own while holding them. For sheet piling work, it requires just one service crane to pitch sheet piles.



Initial Press-in

At the beginning of any press-in work if there are no completed piles, then a "Reaction Stand" is usually used for initial piling work. The Press-in Machine is horizontally set onto the Reaction Stand and then counter weights are loaded onto the Reaction Stand. Counterweight mass is dependent on soil conditions and pile length. The first pile is then pressed-in utilizing the combined weight of the machine and counter weight as a reaction force. After installing the first pile, the installed pile becomes the first reaction pile for installing the second pile. Once the press-in machine completely sits on top of the reaction piles, the Reaction Stand and counterweights are removed. The initial piling work is then completed.

(1) Set the press-in machine main body and the Reaction Stand horizontally.

(2) Front View

(3) Pitch the first pile and start pressing-in.

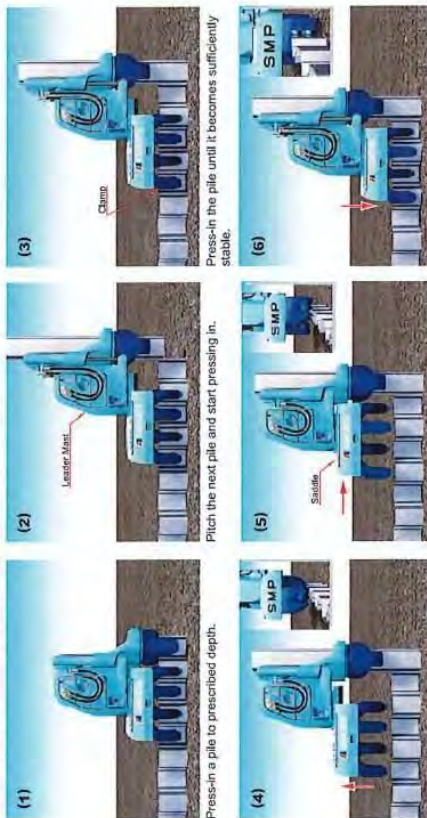
(4) Side View

(5) Remove the counterweights.

(6) Remove the Reaction Stand, and the initial piling is completed.

Press-in Working Procedure / Self-Moving

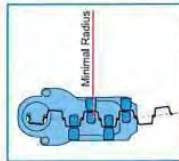
After pressing-in the pile into the prescribed depth, move the Leader Mast forward and hold the next pile, and then start pressing-in. When the pile is installed enough to support the press-in machine main body, open the Clamps, uplift the press-in machine, and move the Saddle forward by several piles. Lower the press-in machine main body at the next reaction pile position, check the levelness, close the Clamps to secure a new reaction base, and continue to press-in the pile into the ground. This is repeated in the press-in process, and the process of moving the press-in machine main body forward is called "Self-moving".



Open the Clamps and then raise the press-in machine main body.
 Move the Saddle forward and change the Clamps positions.
 Lower the press-in machine main body and close the Clamps. Then, self-moving is completed.

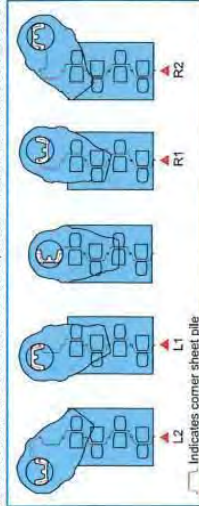
Curve Installation

Chuck Rotation, Mast Rotation, Clamp Left/Right mechanisms are equipped on the press-in machine main body. These functions enable installation of piles for curved or complicated alignments. The minimal piling radius differs from the pile sections and press-in machine specifications.



Corner Installation

The press-in machine has "Corner Four (C4)" mechanism as standard, which allows continuous press-in and extraction of two steel sheet piles on each side at right angles to the piling direction from a single position. The press-in machine remains in the same position and can press in up to a second sheet pile (L2/R2) in the piling direction around the corner. Additionally, when changing direction, two sheet piles can be pressed in as reaction piles on the trailing side (opposite the piling direction). This C4 mechanism allows for safe and efficient construction of cofferdam and shaft construction, even on urban construction sites and narrow sites.



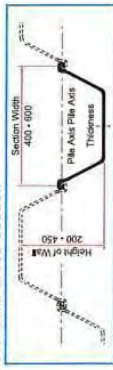
U Sheet Pile Press-in Method



U Sheet Pile

The U Sheet Pile was the world's first rolled sheet pile developed in Germany in 1902 and has been utilised for over a century. There is a range of U sheet piles available, starting from ordinary 400 mm ones for diversion purposes to wider 600 mm ones with higher sectional performance per steel weight for better economy. Specialised press-in machines are available for both domestic and foreign U sheet piles ranging from 400 mm to 600 mm.

Standard Cross-Section



Sectional Performance

Model	Section Width (mm)	Height of Web (mm)	Thickness (mm)	Weight (kg/m)	Section Modulus (cm ³ /m)	Plastic Modulus (cm ³ /m)
U	200	10.5	120	13.5	874	874
III	400	250	13.0	150	191.0	16500
IV	343	243	15.3	190	242.5	34000
V	400	400	24.3	270	267.8	63000
VI	455	455	27.8	240	358.0	80000
VI	500	500	30.3	300	415.2	100000
VI	600	600	37.7	377	523.5	140000

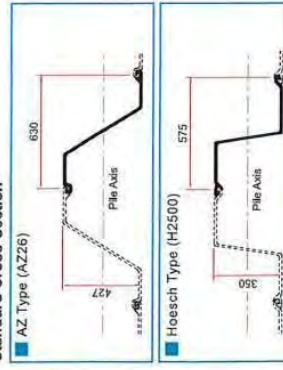
Z Sheet Pile



Z Sheet Pile

The Z sheet pile was developed in Germany in 1926 and has the shape in which its interlock part is located out of the neutral axis to the most exterior edge. In Europe, the design shifted to a fully-fledged, broad and wide configuration in 1990; allowing the cross section performance per steel weight to remarkably exceed U sheet piles, and today it has become a mainstream use for constructing permanent structures. Some models of press-in machines can install double Z sheet piles, up to a width of 1416 mm.

Standard Cross-Section

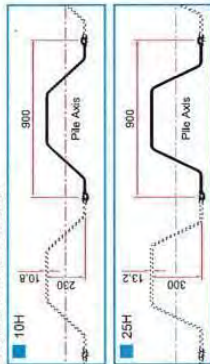


Hat Sheet Pile Press-in Method

Hat Sheet Pile 900

The section modulus of the Hat Sheet Pile 900 exceeds the U Sheet Piles which were mainly used for shore protection, pier and temporary retaining walls. It was developed for wider applications in permanent structures and has better drivability, structural reliability and economical impact. Dedicated press-in machines can install piles with better drivability and installation quality by generating a greater reaction base and dual press-in points.

Standard Cross-Section



Model	Per 1 Sheet				Per 1 m of Wall			
	Weight (kg)	Height (mm)	Length (mm)	Section Modulus (cm ³ /m)	Weight (kg/m)	Height (mm)	Length (mm)	Section Modulus (cm ³ /m)
10H	86.4	116.0	9430	87.2	93.6	122.2	10050	902
25H	113.6	144.4	22000	145.0	126.6	162.4	24400	1610

Zero Clearance Method

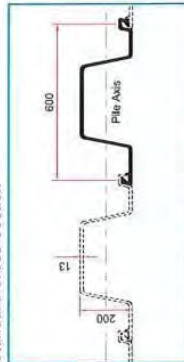


F301

Zero Sheet Pile

This sheet pile was co-developed by NIPPON STEEL CORPORATION and GIKEN LTD. in 1996 for sheet piling with zero clearance to existing structures or boundaries. The Zero Sheet Pile has an asymmetrical interlock and has the Hat shape. Hence, its interlock efficiency is 100% like Z sheet piles. Specialised press-in machines can carry out piling with zero clearance called "Zero Clearance Method".

Standard Cross-Section



Cross Section Performance

Model	Per 1 Sheet				Per 1 m of Wall			
	Weight (kg)	Height (mm)	Length (mm)	Section Modulus (cm ³ /m)	Weight (kg/m)	Height (mm)	Length (mm)	Section Modulus (cm ³ /m)
10ZS-1	87.3	111.2	7250	705	14.6	166.3	12096	1115

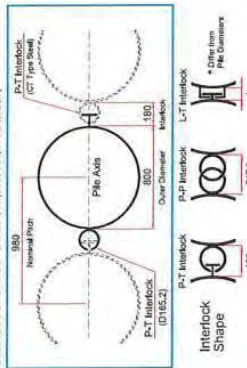
Tubular Sheet Pile Press-in Method



Tubular Sheet Pile

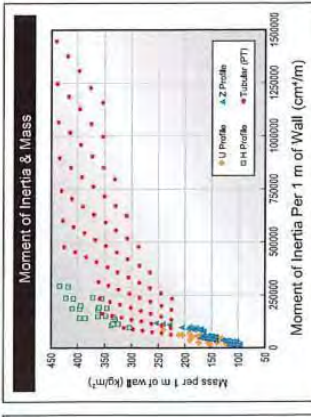
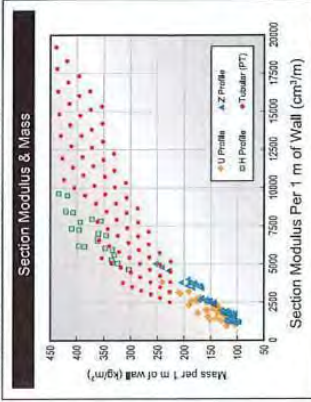
Tubular sheet piles have high strength and increased durability. They are suitable for construction works to protect against flood/tidal waves, countermeasures for rivers, and reinforcement of bridge foundations. By selecting the appropriate pile diameter and thickness, it is possible to flexibly meet design requirements and efficiently and economically construct a wide variety of structures for different purposes. The current models of the press-in machines can handle 500-1500 mm pile diameter tubular sheet piles.

Standard Cross-Section (900 mm, P-T Interlock)



Cross Section Comparison with Major Piles

Four typical pile sections of major press-in pile types are presented according to section performance and steel weight in the following figures. In comparison to U sheet piles and Z sheet piles, H sheet piles and tubular sheet piles clearly demonstrate higher section performance. Tubular sheet piles, in particular, can be considered an economically superior piling material if wall thickness is not an issue, as the steel weight is hardly increased compared to H steel sheet piles, even with higher cross-sectional performance. It is important to select the appropriate pile type depending on the purpose and the construction design.



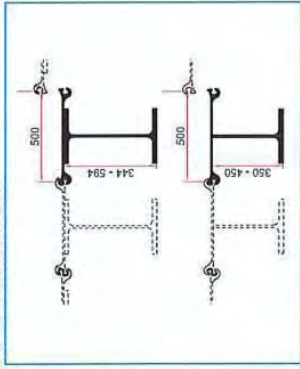
H Sheet Pile Press-in Method



H Sheet Pile

H sheet piles are used for deep foundations in urban development projects. It has high strength and rigidity with thinner wall thickness. The double interlock type is superior in water cutoff performance, and the single interlock type is applicable for curve alignment installation. The press-in machines for H sheet piles are currently available within a wall height of 600 mm.

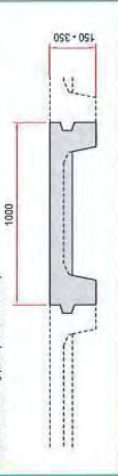
Standard Cross-Section



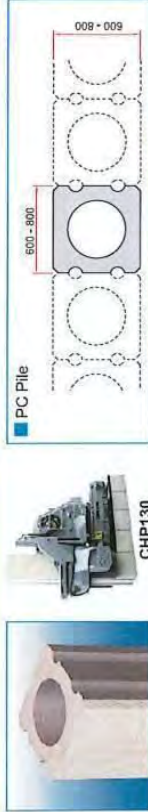
Concrete Sheet Pile Press-in Method



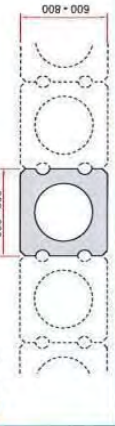
Channel Type (1000 mm)



PC Pile Press-in Method



PC Pile



CHP130



Straight Web Sheet Pile Press-in Method (Ring Method)



Straight Web Sheet Pile Dedicated Press-in Machine

Ring Method is described on Page 19

Trench Sheet Pile Press-in Method



Trench Sheet Pile



STP30

SILENT PILER Models & Applicable Piles

SILENT PILER™ Model	U Section (width: mm)			Hat Section (width: mm)	Z Section (width: mm)	
	400	500	600		750	900
F111	✓			900	Single	Pair
F201	✓	✓				
F301-700*		✓	✓			✓
F301-900				✓		
F401-1400			✓			✓

*: F301-700 is Capable of installing Universal Columns(20*28*30*12").
 **: Paired sections only.

GYRO PILER Models & Applicable Piles

GYRO PILER™ Model	Tubular Pile (diameter: mm)					
	600	800	1000	1200	1500	2000
F301-G1000	✓	✓	✓			
F401-G1200		✓	✓	✓		
F501-G1500				✓	✓	
GRV2540						✓

Environmentally-Friendly Press-in Machine

Standard Adoption of Biodegradable Hydraulic Oil

The current models of GIKEN press-in machines adopt PILER ECO™ Oil, a biodegradable hydraulic oil designed for press-in machines, and PILER ECO™ Grease, jointly developed by GIKEN LTD. and a Japanese petroleum manufacturer. If biodegradable oil happens to be split into soil or water, it does not harm the surrounding ecosystem.



No environment damage in Limpid Stream

GIKEN Genuine Products

- Developed only for SILENT PILER™
- Excellent Biodegradability & Non-Toxic Performance
- High Lubricity and Fire Retardant Properties

Label of Biodegradable Oil



Environmentally-friendly Power Unit

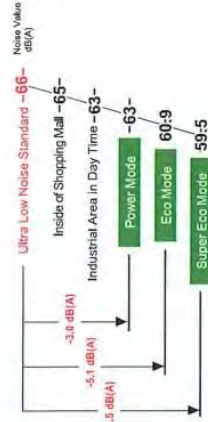
Low Emission Engine
 A new generation of ecofriendly engines with Urea-SCR system ensures a high level of environmental friendliness. In addition, a cooling fan hydraulic drive system has been adopted to reduce noise and improve fuel efficiency.

Ultra-Low Noise Design

It stays well below the sound pressure level of 66 dB, the ultra-low noise standard of Japanese MLIT.

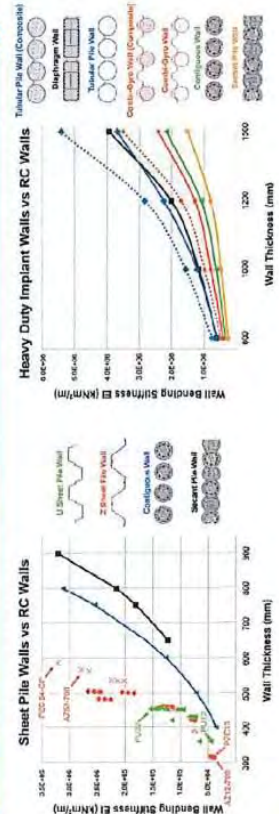


Photo shows EU300 engine unit of F series



Measurement Scenery

Wall Properties



Scientific Execution of Press-in Work & Advanced IT Functions

New GIKEN IT System

In this system, location, maintenance and operating information on press-in machines operating worldwide are automatically stored on a dedicated server. By analysing such information, it is possible to effectively receive technical and mechanical support as well as accurate decisions and responses to problems.

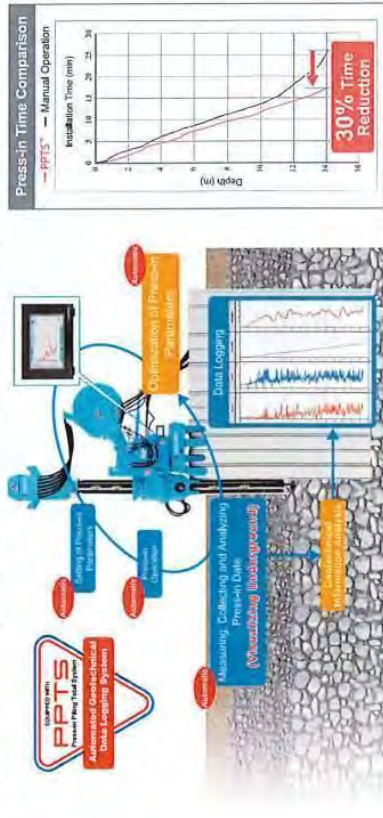
*Where in the countries where automation for usage cannot be acquired.



The PPT System™

Increasing piling productivity by decreasing operator workload

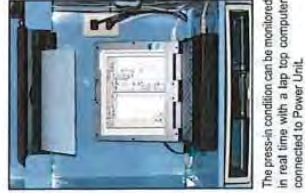
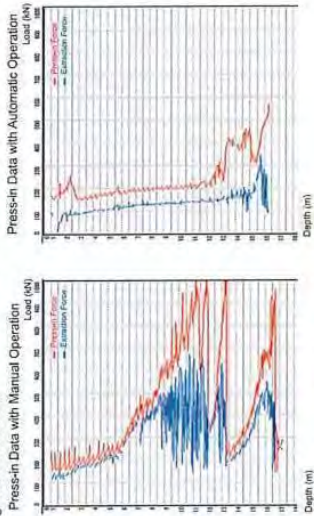
The PPT system™ (Press-in Piling Total System) estimates ground information from data collected during the installation of piles, and the press-in machine itself evaluates the state of construction and performs the optimum automatic operation. This feature ensures that the installation process is both accurate and efficient, regardless of the operator's level of expertise. As a result, press-in time can be reduced by 30% (in-house comparison). This not only lightens the load on operators but also contributes to greater productivity and lower labour costs at construction sites.



Scientific Press-in Quality Control

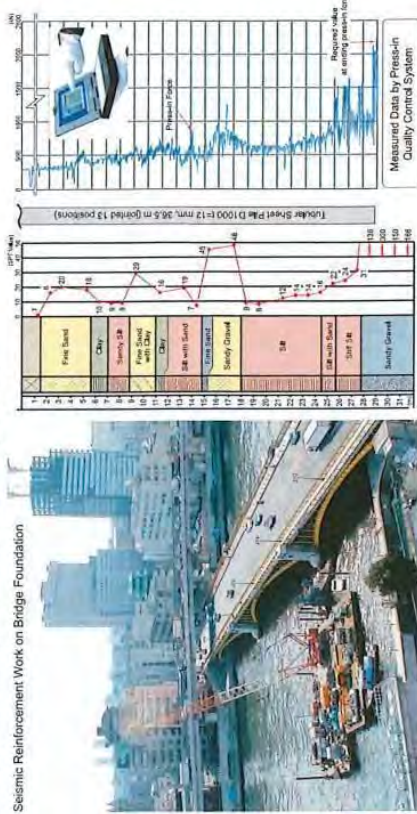
Automatic Press-in Operation System

In the Press-in Method, piles are repeatedly pressed-in and extracted during installation in order to reduce penetration resistance. This installation procedure is necessary to construct high quality wall structures. It is important to determine the most effective combination of press-in stroke, extraction stroke and maximum press-in force in every ground condition and pile length. The scientifically optimal operation is available by using the Automatic Press-in Operation System, which can provide the best combination of operation variables. The data of the press-in operation below shows the difference between manual operation and automatic operation at the same ground condition.



Press-in Quality Control System

In the Press-in Method, each pile is pushed into the ground by static load, and forms a pile foundation. It can be beneficial to carry out load tests for superstructures during piling work. It is possible to monitor real time conditions of the press-in force, toe resistance of pile, toe resistance of pile, penetration depth and operation time, because SILENT PILER controls pile behaviour by a hydraulic system. Since such records are pertinent to the finished quality of the foundation, it is possible to plan a "optoneered" design which emphasises actual performance of the pressed-in piles. This is a remarkable feature of the pressed-in pile and will be the major design trend of "Performance-Oriented Design". The Press-in Quality Control System can control piling performance based on such measured information and it can be the testament of pile quality.



SILENT PILING TECHNOLOGIES

Press-in System

Temporary Work-Free Construction Constructs Press-in Pile Continuous Wall while Overcoming Various Site Conditions.



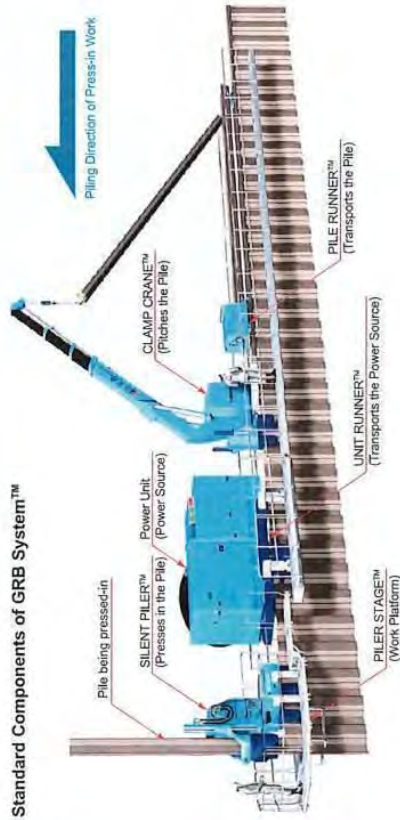
GRB System™

GIKEN Reaction Base System

The Press-in machine utilizes the reaction force from installed piles integrated with the Earth to carry out piling work on top of the installed piles. With further development based on the principle of "reaction based mechanism", the "GRB System" was developed as a press-in system which carries out all piling procedures, such as pile transportation, pile pitching and press-in work on top of the installed piles.

The GRB System consists of a press-in machine at the front, Power Unit as a power source, CLAMP CRANE™ to pitch piles and PILE RUNNER™ to convey the piles from the work base platform.

Standard Components of GRB System™



Temporary Work-Free Construction

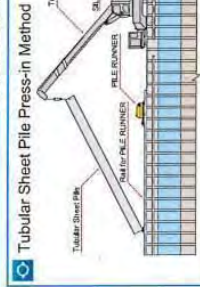
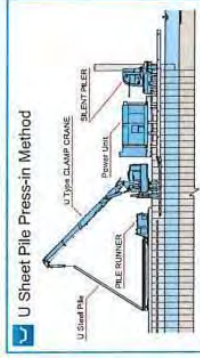
Since conventional piling methods require other heavy equipment in addition to the piling rig, massive temporary facilities are needed depending on site conditions. However, temporary works are not necessary in principle, because they are construction works for the permanent structure. If a construction method requires huge amounts of time and money for temporary work, then the method has a fundamental problem and it will never fulfill the Five Construction Principles. On the other hand, the GRB System doesn't require temporary working platforms or road diversions even for unstable ground conditions, narrow locations, onwater, on slopes, and for other restricted site conditions, as it carries out all piling works on top of the completed piles. The GRB System satisfies the Five Construction Principles at all levels by providing solutions to construct only the permanent structures. Accordingly, it achieves fundamental purposes of construction works without any negative effects on neighbours and active traffic even in emergency restoration works of river embankments or in very narrow site conditions.

Construction Revolution



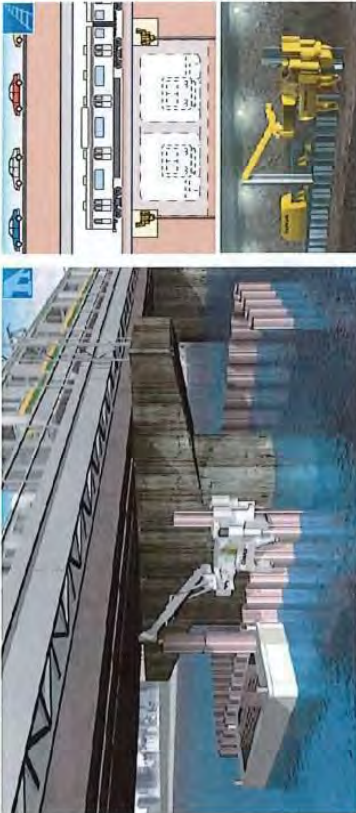
Non-Staging Method

In conventional construction on water and sloping ground, large-scale temporary works such as temporary piers are essential. However, in the Non-staging Method, all the press-in piling equipment advances along the top of the completed pile as a working orbit, making it possible to carry out only the wall construction, which is the original purpose, in a beneficial manner. This approach is called "temporary work-free construction", and it does not disturb the water flow or the existing traffic at all.



Overhead Clearance Method

In the Overhead Clearance Method, piling work can be carried out safely under any overhead obstructions without disturbing active traffic, because all machines are light weight and compact, and the SILENT PILER holds piles being pressed-in at close position to the pile top elevation of design. If the overhead clearance is very limited, a specially designed short model of press-in machines, can be used for this application.



Models



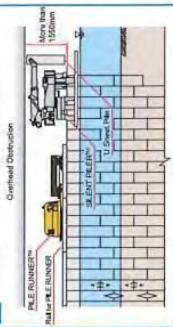
CL70

CLF120

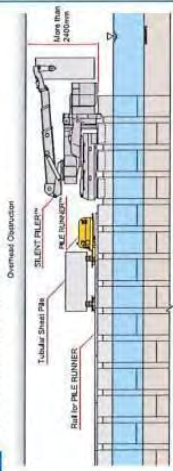
CLH150

CLP200

U Sheet Pile Press-in Method



Tubular Pile Press-in Method

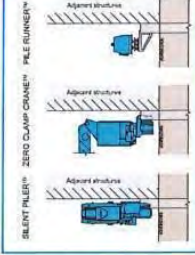
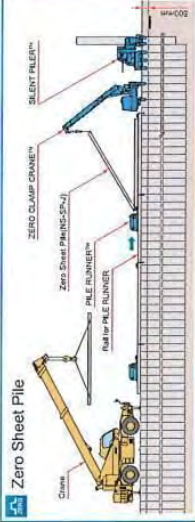


Zero Clearance Method

The Zero Clearance Method is a press-in method for pile installation with zero clearance to adjacent structures using dedicated piles "Zero Sheet Pile" and the specially designed model of "SILENT PILER™". With this method, canal works in a narrow area and building construction works that require effective use of the site can also be carried out economically and efficiently without affecting the surrounding environment.

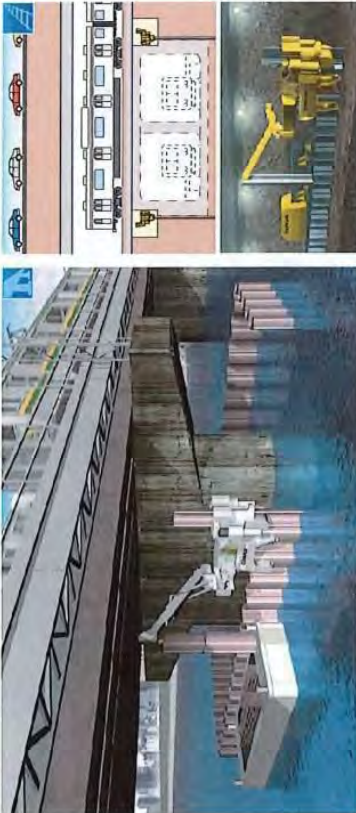


Zero Sheet Pile



Overhead Clearance Method

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Models



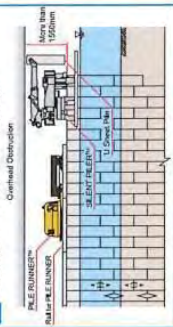
CL70

CLF120

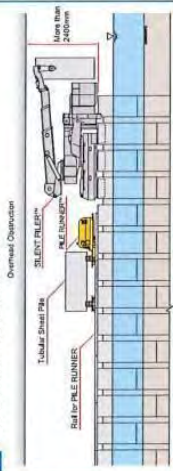
CLH150

CLP200

U Sheet Pile Press-in Method



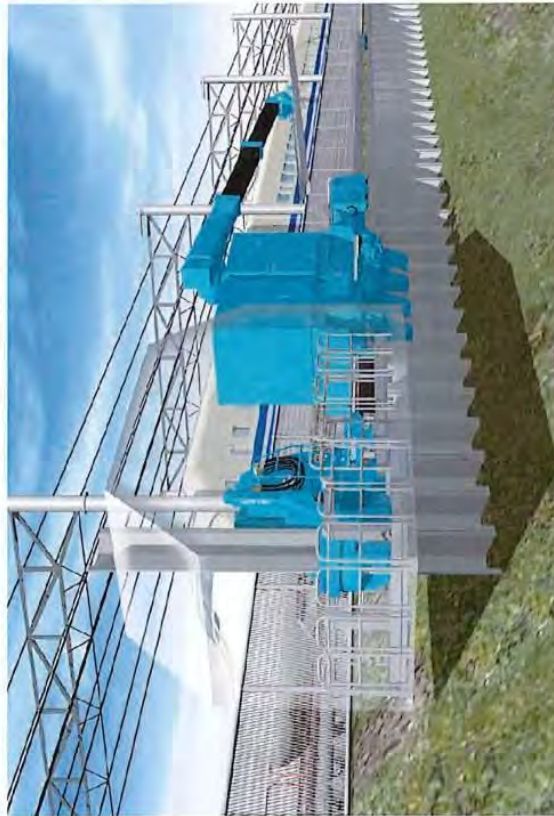
Tubular Pile Press-in Method



Rail Safe Method

Securing Railway Operations

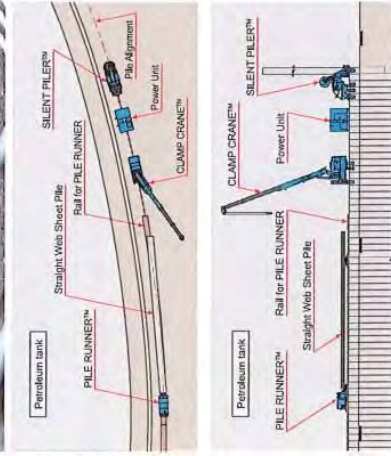
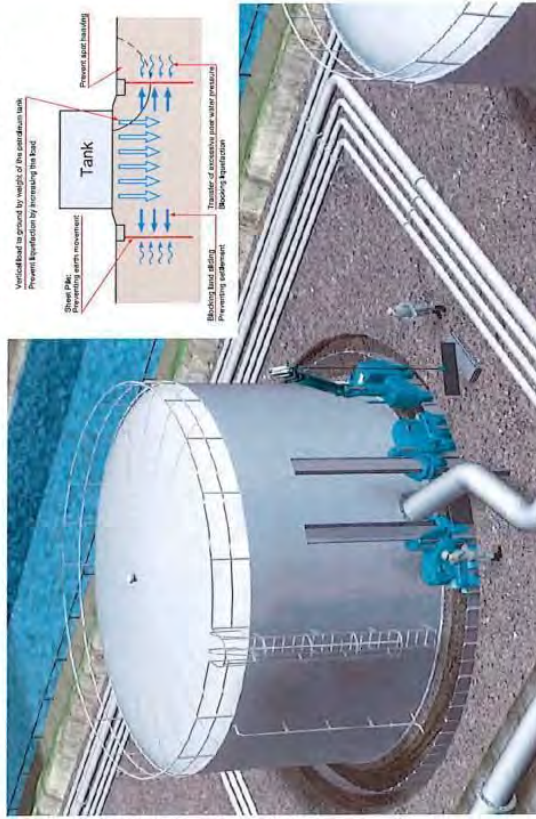
The role of railways as a public transportation system is still prominent, even now when the main urban traffic has shifted to automobiles. Railway is effective for long distance transportation and logistics, and is an everyday travel means for citizens in urban areas as well. Because of such demand, functions of active railways are often reviewed and improved, and construction work is frequently carried out to reinforce facilities against earthquakes. The Rail Safe Method is a construction technique that allows for building structures near railway lines while ensuring safety for both the construction and the railway. This method is superior to other construction principles because it eliminates the need for temporary works, ensures rapid construction, and maintains the regular track schedule. Even where strict safety requirements are required, such as on bullet trains, thorough scientific environmental monitoring can be carried out.



Ring Method

Anti-Seismic Reinforcement & Liquefaction Measures

Among the facilities that urgently need seismic countermeasures are storage tanks for gas and petroleum, which are indispensable for daily life, indispensable for daily life. However, the existing seismic reinforcement construction works are costly and lengthy for temporary removal of piping and ancillary facilities. Such methods cannot observe the Five Construction Principles. The solution is the "Ring Method" by which straight web sheet piles are pressed-in in a circular shape and integrated with the ground, closing around a tank. If the surrounding ground becomes liquefied by an earthquake, the circular shape of the pressed-in pile continuous wall blocks liquefaction propagation and protects internal foundations from settlement and side flow, to prevent damage to the tank. The construction work does not require temporary works, is space-saving and work duration is extremely reduced, as well as cost.



Rail Safe Method

Securing Railway Operations

The role of railways as a public transportation system is still prominent, even now when the main urban traffic has shifted to automobiles. Railway is effective for long distance transportation and logistics, and is an everyday travel means for citizens in urban areas as well. Because of such demand, functions of active railways are often reviewed and improved, and construction work is frequently carried out to reinforce facilities against earthquakes. The Rail Safe Method is a construction technique that allows for building structures near railway lines while ensuring safety for both the construction and the railway. This method is superior to other construction principles because it eliminates the need for temporary works, ensures rapid construction, and maintains the regular track schedule. Even where strict safety requirements are required, such as on bullet trains, thorough scientific environmental monitoring can be carried out.



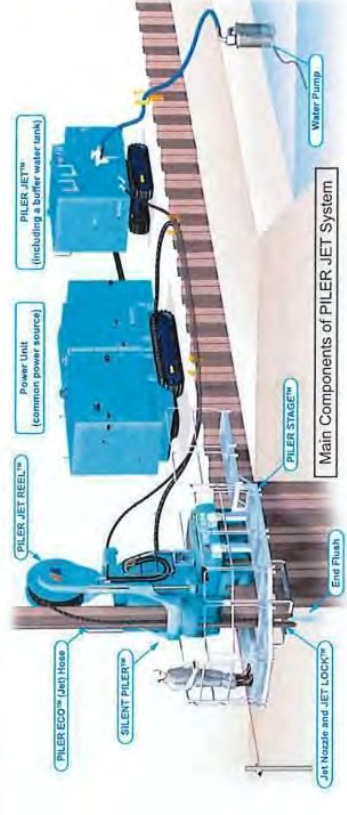
PILER JET System
Water Jetting Press-in Method



When applying static load onto a pile in sandy ground, pile toe resistance becomes large due to the consolidation of soil particles at the toe. Also, if fine soil gets into the gap between interlocks, interlock resistance increases due to the consolidation of soil particles as the penetration depth gets deeper. These aspects may result in damage to the pile toe and interlock, become a major factor that obstructs the press-in work, and eventually make the penetration of the pile difficult. In order to prevent such issues from occurring, a high pressure water jet is attached for driving assistance. The water can increase pore water pressure around the pile toe and create a temporary status where soil particles are moved easily. At the same time, upstream water flow reduces skin friction of the pile and reduces interlock resistance by washing out soil inside the interlock. This is how penetration resistance is reduced, and why the Water Jetting Press-in Method enables installation of piles with smaller press-in force, without damaging the pile.

Integration of Press-in Function and Water Jetting Function

The PILER JET™ System is a system in which the press-in function and water jetting function are integrated in order to mitigate environmental impact while enhancing the working efficiency of the Water Jetting Press-in Method. A specially developed water jet pump, the PILER JET, is linked with the SILENT PILER to control water flow automatically. It can minimise the influence on ground conditions and reduce water treatment works. The power source for the PILER JET is the Power Unit, and water flow and water pressure are displayed on the multifunction monitor of the press-in machine. These are controlled by the radio controller of the press-in machine.



System Equipment

Standard Press-in

Press-in with Water Jetting

Rotary Cutting Press-in

Hard Ground Press-in

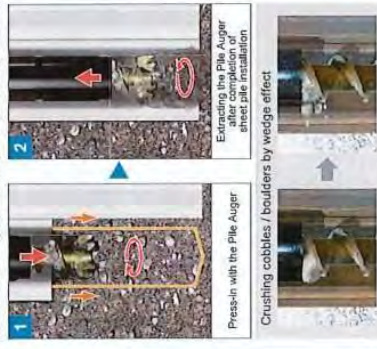
SILENT PILING TECHNOLOGIES

Hard Ground Press-in Method

F301



Ground conditions are a major restriction which must be managed in addition to physical site conditions. The "Hard Ground Press-in Method" is a newly developed penetration acceleration technology with the practical use of the unique GIKEN "Coring Theory" to enable pile installation on unfavourable ground conditions such as sandy gravel, cobblestone, boulders, or rock layers without losing the superiorities of the Press-in Method. In this theory, a pile auger, which is integrally controlled with a press-in machine, first excavates the ground just beneath the pile toe, and then the excavation at the same time as the pile auger is withdrawn. Therefore, the area to be excavated and the amount of soil discharged can be minimised, thus reducing penetration resistance force while taking the environment into consideration.



What is Hard Ground?
Gravel layers containing boulders and ground layers with many layers of sandy gravel, "Hard Ground" is a value (SPT Value) more than 50 is generally considered hard ground. Regardless of piling methods, sheet piling into hard ground was difficult. However, the Hard Ground Press-in Method enables installation of sheet piles into soft rocks such as, mudstone, sandstone and granite, and medium, hard rocks.



- Transparency With Street Construction
- Minimum Reduction of Neighboring Load
- Less Vibration Generation
- Spark / Dusting
- Minimization of Environmental Impact

Multifunctional Press-in Machine

The Multifunctional Press-in Machine is an environmentally-friendly press-in machine that can be applied to a variety of ground conditions, as it supports the multiple penetration modes of Standard mode, Water Jetting mode and Super Crush mode, all in a single machine.

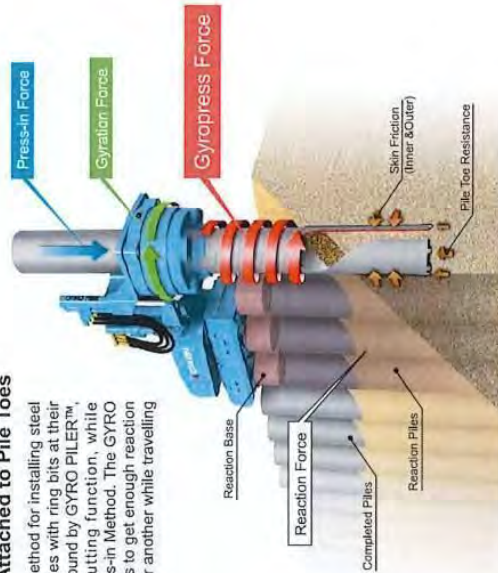


Gyopress Method

Providing the Power of Press-in Force + Gyration Force as a "Gyopress Force" for Tubular Pile Installation into Hard Ground with Ring Bits Attached to Pile Toes

The "Gyopress Method™" is a piling method for installing steel tubular piles. In this method, tubular piles with ring bits at their toes are rotated and pressed into the ground by GYRO PILER™, a press-in machine with a rotary cutting function, while maintaining the superiorities of the Press-in Method. The GYRO PILER™ grips the already installed piles to get enough reaction force and installs the next piles one after another while travelling on top of the already installed piles.

GYRO PILER™



Penetrating through Hard Ground and Concrete Obstructions

The Gyopress Method is suitable for ground conditions where conventional methods are less efficient or are restricted by underground obstacles, including concrete structures.

Working Under Physical Restrictions (GRB System)

Since the Press-in Method allows for piling work in minimum working area, it is the best to be selected for working severe physical restrictions such as narrow locations and underneath overhead obstructions. In addition, it does not require temporary working platforms.

Environmentally Friendly Construction (soil displacement control)

Soil displacement can be minimised by employing a rotary cutting mechanism with special cutting bits at the pile toe, allowing more environmentally friendly piling work. In addition, GYRO PILER uses biodegradable hydraulic oil and grease, so if the oil and grease are split into soil or water, they do not harm the surrounding ecosystem.

Economical Construction with Various Designs Available

The rotary cutting press-in does not apply undue stress to the pile material, thus reducing pile deformation and eccentricity. Construction designs, for example, batter pile, pile layout, etc., can be freely selected so that the most economical structural style can be adopted.

Achievements

Road Expansion Retaining Walls



Rail Expansion Retaining Walls



Seawall Expansion



Levee Reinforcement



Quay Wall Reconstruction



Base Walls for Disaster Prevention



Cutting Reinforced Concrete



The images below show the cutting and penetrating into reinforced concrete (t = 800mm, rck = 24N/mm², D16@250 x 3 layers) with the Gyopress Method.

Combi-Gyro Method

Combi-wall Construction with Highly Impermeable Sheet Piles Together with Highly Rigid Tubular Piles

The "Combi-Gyro Method" is a piling method that enables just a single press-in machine to construct a wall combined with tubular piles called "Combi-Gyro Wall". It comprises hat sheet piles (900mm wide) which have outstanding water-blocking characteristics (installed by SUPER CRUSH mode / Water-jetting mode / Standard mode) and highly rigid tubular piles (installed by rotary cutting press-in). In addition, length of the hat sheet piles as well as diameter, length and intervals of the tubular piles can be adjusted, depending on the desired wall height and ground conditions. Thus, functional and economical walls can be constructed.



Steel Sheet Piles



Tubular Piles



Combi-Gyro Method Features

- Construction of a highly impermeable, highly rigid wall with 1 press-in machine
- Simple construction with the use of standard pre-fabricated piles
- Steel tubular pile diameters and installation intervals freely set for economically optimal design
- Press-in Method construction without noise, vibration, or ground displacement

Applications



Excellent Waterproofing that can Easily be Dismantled

Suitable for Anti-Seismic Reinforcement and Liquefaction Measures with Fast Construction

Achievements

Seawall Improvement



Road Retaining Wall Improvement



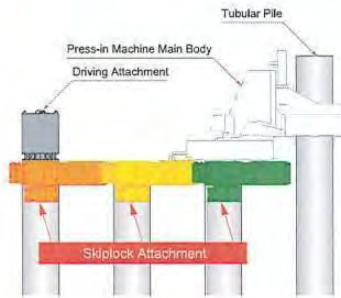
Cofferdams for Pier Repair



Skip Lock Method™

Use of the Skiplock Attachment Allows for Spaced Interval Installation of Tubular Piles

With the Skip Lock Method, specially developed Skiplock Attachments allow steel tubular piles to be installed at a spacing of 2.5D with a press-in machine main body. It can be applied to a variety of structures, such as landslide protection and coastal embankments.



Construction Procedure

- 1 Return Level
Install a tubular pile to the datum level.
- 2 Relocation
Hoist and relocate the rearmost Skiplock Attachment.
- 3 Self-moving
Move the press-in machine forward (Self-moving).
- 4 Pitch the next pile and start the installation again.

TUBULAR KING PILE FOUNDATION SYSTEM

D: 800mm - 2,500mm



Achievements

Seawalls for Petroleum Stations



Tubular Foundation Piles for Seawalls



Tubular Foundation Piles for Buildings



THE FIVE CONSTRUCTION PRINCIPLES



"The Five Construction Principles" are the universal criteria for the construction method selection and construction quality, by considering ideal situations for construction work under public perspective. In any construction project, the five aspects i.e. Environmental Protection, Safety, Speed, Economy and Aesthetics, should be fulfilled in the form of equilateral pentagon.

Environmental Protection	Construction work should be environmentally friendly and free from pollution.
Safety	Construction work has to be carried out in safety and comfort with a method implementing the highest safety criteria.
Speed	Construction work should be completed in the shortest possible period of time.
Economy	Construction work must be done rationally with an inventive mind to overcome all constraints at the lowest cost.
Aesthetics	Construction work must proceed smoothly and the finished product should portray cultural and artistic flavour.



Construction Solutions Company

www.giken.com

CONTACT US



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Ver 2.7EN06 / 10 Jun 2024

Benthic Resources Report

Sebastian Street Seawall Replacement Broward County, Florida

Prepared for:

City of Fort Lauderdale
Public Works Department Engineering
101 NE 3rd Avenue Suite 1420
Fort Lauderdale, FL 33301

© Kimley-Horn and Associates, Inc. 2024
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Figure 3: Submerged Aquatic Vegetation (SAV) Map

Appendices

Appendix A - Photographic Log

Appendix B - *Standard Manatee Conditions for In-Water Work*

Appendix C - *Grates and Other Manatee Exclusion Devices for Culverts and Pipes*

Benthic Resources Report
Technical Memorandum

Sebastian Street Seawall Replacement
Broward County, FL

1.0 INTRODUCTION

The following technical memorandum summarizes the results of a seagrass and benthic resources survey and field reconnaissance conducted by Kimley-Horn and Associates, Inc. (Kimley-Horn) on July 9th, 2024, on Sebastian Street in the City of Fort Lauderdale, Florida (**Figure 1 – Location Map & Figure 2 – Aerial Map**). Kimley-Horn’s scope of services included conducting an in-water survey of the area within ± 50 feet of the proposed seawall project. The survey was conducted to determine the presence or absence of seagrass and/or benthic resources that could potentially be affected by the seawall replacement that spans approximately ± 50 linear feet.

2.0 PROJECT DESCRIPTION

The proposed project is located with a center coordinate of 26° 7'27.12"N and 80° 6'22.35"W in the City of Fort Lauderdale, Florida in Section 01, Township 50 South, and Range 42 East. The project area consists of an approximately 50 linear foot seawall at the west end of Sebastian Street and along the east side of the Intracoastal Waterway (ICWW). The existing seawall consists of a concrete panel wall with a concrete cap and two (2) stormwater outfalls.

3.0 METHODOLOGY

The methodology for identifying potential seagrass and benthic resources within the survey area included a review of the following resources:

- Florida Department of Environmental Protection (FDEP) GIS database (<https://ca.dep.state.fl.us/mapdirect/>)
- Florida Fish and Wildlife Research Institute (FWRI) GIS database (<https://geodata.myfwc.com/>)
- South Florida Water Management District (SFWMD) GIS database (<https://geo-sfwmd.hub.arcgis.com/>)

- National Oceanic and Atmospheric Administration (NOAA) Essential Fish Habitat (EFH) GIS database (<https://www.habitat.noaa.gov/apps/efhmapper/>)
- Aerial Photographs and Street Maps

The survey was conducted by swimming transects within the proposed project footprint. The transects ran parallel to the seawall and were spaced approximately 8-10 feet apart. A quantitative and qualitative sampling of each transect was conducted by two biologists using snorkeling gear. Substrate type and percent coverage and species composition of seagrasses (if applicable), as well as the occurrence of other benthic resources, were documented within the survey area. The in-water survey was conducted on July 9th, 2024, during an incoming (high) tide. The presence or absence of seagrass was documented in addition to any other benthic resources. See **Figure 2 – Aerial Map** for the location of the survey area.

Table 1 - Environmental Conditions During Seagrass Survey						
Date	Biologists	Survey Time	Weather Condition	Visibility (feet)	Tide (Start)	Tide (End)
07/09/2024	LC, BC	10:00am-11:00am	85 degrees, partly cloudy	2 ft	High	High

4.0 RESULTS

Seagrass and benthic resources were observed within the survey area (see **Figure 3 – Submerged Aquatic Vegetation (SAV) Map**). The benthic community of the survey area consisted of a silt substrate with fuzzy finger algae, crushed shells, and leaf litter. Depths within the survey area varied from 4'-8', with depths increasing waterward of the seawall. Eastern oyster (*Crassostrea virginica*) clusters were observed along the length of the seawall. One (1) species of seagrass was observed within the survey area: paddle grass (*Halophila decipiens*) with 1-5% coverage. The paddle grass was observed with sparse coverage along a transect approximately ± 20 feet waterward of the seawall. Additionally, one 4x4-foot patch of paddle grass was observed in the southern portion of the survey area, approximately ± 5 feet waterward of the seawall.

The species of fish observed during the in-water survey included the checkered puffer (*Spherooides testudineus*), mangrove snapper (*Lutjanus griseus*), and porkfish (*Anisotremus virginicus*). Additional

wildlife species observed during the survey was limited to the green iguana (*Iguana iguana*). See **Appendix A – Photographic Log** for photographs of the project area.

5.0 SUMMARY & CONCLUSIONS

Based on this site visit and benthic resources survey, seagrass and benthic resources appear to be present in the survey area, however, no impacts to seagrass are anticipated based on the proposed project. The contractor will follow Best Management Practices (BMPs) such as floating turbidity barriers during construction to reduce any potential runoff into the Intracoastal waterway. Additionally, the contractor will follow an approved Stormwater Pollution Prevention Plan (SWPPP) including erosion and sediment controls that will be implemented and maintained throughout all construction phases.

Although the West Indian manatee (*Trichechus manatus latirostris*) was not observed during field reconnaissance, marginal habitat exists within the project area. It is recommended that the project implements the **Standard Manatee Conditions for In-Water Work (Appendix B)** throughout construction. Additionally, all existing or proposed outfalls greater than 8 inches in diameter should contain a manatee grate that complies with Florida Fish and Wildlife (FWC) **Grates and Other Manatee Exclusion Devices for Culverts and Pipes** (October 2015) (**Appendix C**) to prevent manatee entrapment.

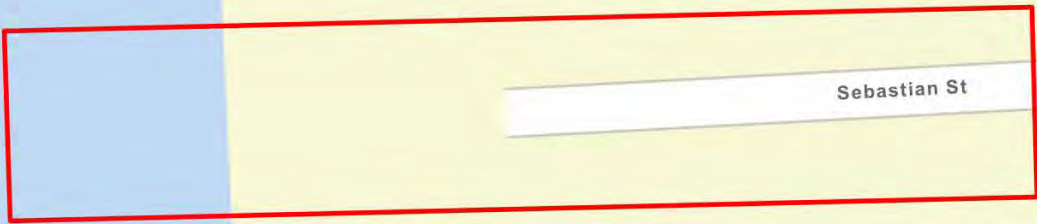
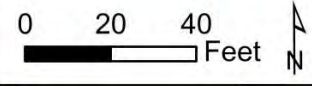
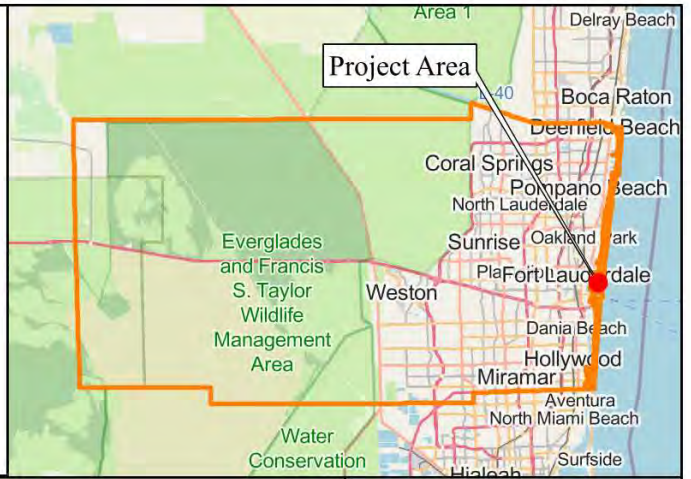
FIGURES

Figure 1: Project Location Map

Figure 2: Aerial Map

Figure 3: Submerged Aquatic Vegetation (SAV) Map

Broward County



Legend

 Project Area

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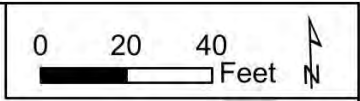
Source: ESRI, FDOT, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Project Location Map

**Sebastian Street Seawall Replacement
Broward County, Florida**

© 2024 Kimley-Horn and Associates, Inc.
1920 Wekiva Way, STE 200
West Palm Beach, FL 33411
Phone (561) 845-0665
www.kimley-horn.com

1 inch = 40 feet PROJECT NUMBER: 043184256 JULY 2024 FIGURE 1



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Legend

Project Area

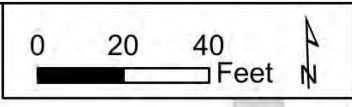
Source: ESRI, FDOT, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Project Location Aerial Map

**Sebastian Street Seawall Replacement
Broward County, Florida**

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1 inch = 40 feet PROJECT NUMBER: 043184256 JULY 2024 FIGURE 2



K:\WPB_GIS\WPB_Environmental\043184256 - Sebastian & Seville Seawall Replacement\MXD\NRA Figures\

Legend

- Project Area

Seagrass Observed (% Coverage)

- Paddle Grass (1-5%)

Source: ESRI, FDOT, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

<p>© 2024 Kimley-Horn and Associates, Inc. 1920 Wekiva Way, STE 200 West Palm Beach, FL 33411 Phone (561) 845-0665 www.kimley-horn.com</p>	Submerged Aquatic Vegetation (SAV) Map		
	Sebastian Street Seawall Replacement Broward County, Florida		
	1 inch = 40 feet	PROJECT NUMBER: 043184256	JULY 2024

Appendix A: Photographic Log



Photo 1 – Photo of Sebastian St seawall facing southwest. Note concrete panel wall and two storm drains with outfalls.

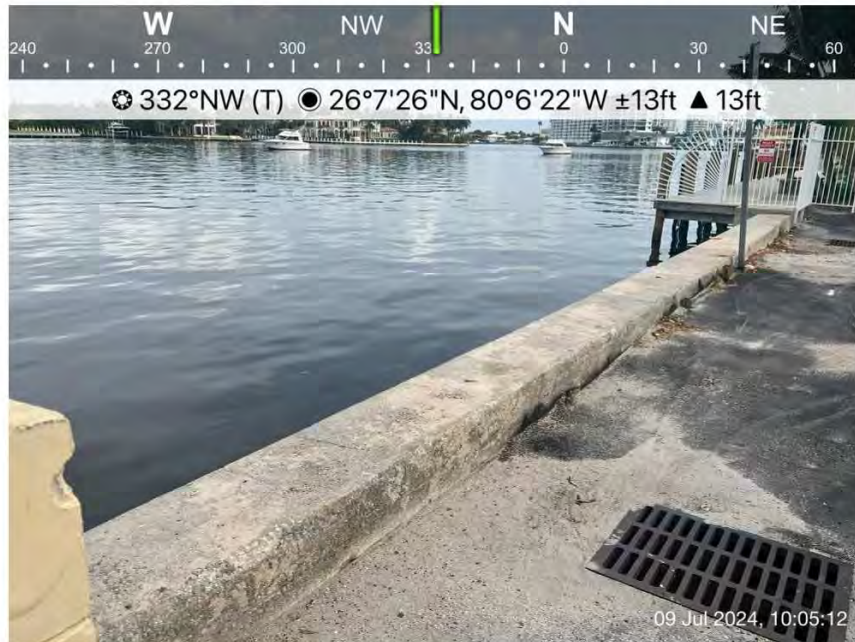


Photo 2 – Photo of Sebastian St seawall facing northwest. Note concrete panel wall and two storm drains with outfalls.

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PHOTOGRAPHIC LOG

**Sebastian Street Seawall Replacement
 Broward County, Florida**

SCALE: NTS

PROJECT NO 043184256

DATE JULY 2024

PAGE 1



Photo 3 – Photo of survey area. Note silt and crushed shells substrate and presence of fuzzy finger algae.



Photo 4 – Photo of survey area. Note silt and crushed shells substrate and presence of fuzzy finger algae.

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**Sebastian Street Seawall Replacement
 Broward County, Florida**

SCALE: NTS

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DATE JULY 2024

PAGE 2



Photo 5 – Photo of survey area. Note one of the two outfalls and oysters on sea wall.



Photo 6 – Photo of survey area. Note oysters on sea wall.

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PHOTOGRAPHIC LOG

**Sebastian Street Seawall Replacement
 Broward County, Florida**

SCALE: NTS

PROJECT NO 043184256

DATE JULY 2024

PAGE 3



Photo 7 – Photo of survey area. Note silt substrate and presence of paddle grass (*Halophila decpiens*) with sparse coverage.



Photo 8 – Photo of survey area. Note silt substrate and presence of paddle grass (*Halophila decpiens*) with sparse coverage.

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PHOTOGRAPHIC LOG

**Sebastian Street Seawall Replacement
 Broward County, Florida**

SCALE: NTS

PROJECT NO 043184256

DATE JULY 2024

PAGE 4

Appendix B: *Standard Manatee Conditions for In-Water Work*

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
- b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.
- d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.
- e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or in Vero Beach (1-772-562-3909) for south Florida, and emailed to FWC at ImperiledSpecies@myFWC.com.
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CAUTION: MANATEE HABITAT

All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work
all in-water activities must

SHUT DOWN

Report any collision with or injury to a manatee:



Wildlife Alert:

1-888-404-FWCC(3922)

cell *FWC or #FWC

Appendix C: *Grates and Other Manatee Exclusion Devices for Culverts and Pipes*

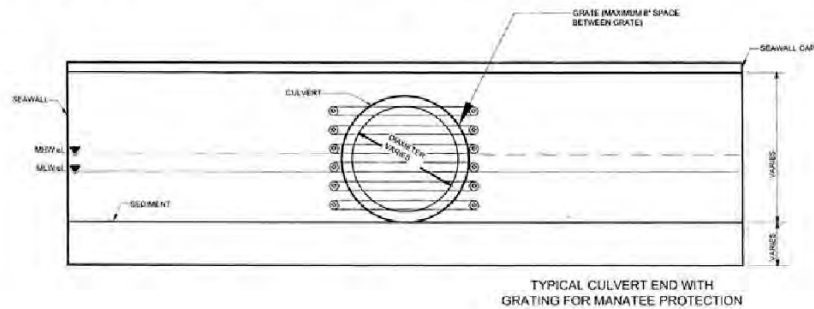


Grates and Other Manatee Exclusion Devices for Culverts and Pipes

October 2015

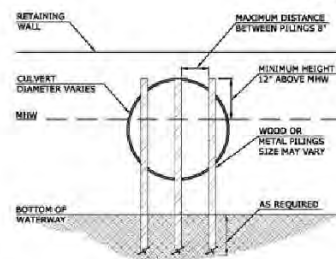
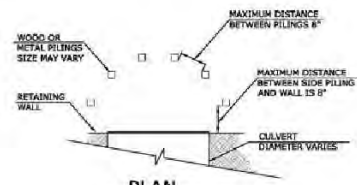
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There are various ways to preclude manatees from entering risky culverts and pipes, including grates, pilings, flap gates, and in some circumstances, valves. If a pipe or culvert is greater than 8 inches in diameter, but smaller than 8 feet, it is a possible risk to manatees because there is not enough room to turn around. Bars or pilings should be no more than 8 inches apart in front of the entrance to restrict manatee access. Bars on grates can be diagonal, horizontal or vertical, and grates can be hinged (swinging outwards) if needed so that debris can escape from inside the pipe.

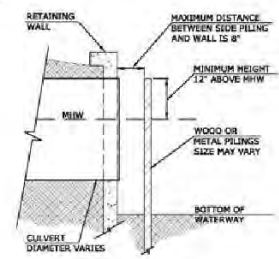


TYPICAL CULVERT END WITH GRATING FOR MANATEE PROTECTION

NOTE: Not all culverts and pipes present a risk to manatees, and some provide needed corridors for other wildlife. The decision to allow a culvert to remain accessible to manatees will depend on culvert length, water level, available habitat and other risk factors. These situations can be evaluated on a case-by-case basis by the FWC.



FRONT VIEW



SECTION

CULVERT ALTERNATIVE MANATEE BARRIER
N.T.S.

Benthic Resources Report

Seville Street Seawall Replacement Broward County, Florida

Prepared for:

City of Fort Lauderdale
Public Works Department Engineering
101 NE 3rd Avenue Suite 1420
Fort Lauderdale, FL 33301

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043184256

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Figure 2: Aerial Map

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Appendix A - Photographic Log

Appendix B - *Standard Manatee Conditions for In-Water Work*

Appendix C - *Grates and Other Manatee Exclusion Devices for Culverts and Pipes*

**Benthic Resources Report
Technical Memorandum**

**Seville Street Seawall Replacement
Broward County, FL**

1.0 INTRODUCTION

The following technical memorandum summarizes the results of a seagrass and benthic resources survey and field reconnaissance conducted by Kimley-Horn and Associates, Inc. (Kimley-Horn) on July 9th, 2024, on Seville Street in the City of Fort Lauderdale, Florida (**Figure 1 – Location Map & Figure 2 – Aerial Map**). Kimley-Horn’s scope of services included conducting an in-water survey of the area within \pm 50 feet of the proposed seawall project. The survey was conducted to determine the presence or absence of seagrass and/or benthic resources that could potentially be affected by the seawall replacement that spans approximately \pm 50 linear feet.

2.0 PROJECT DESCRIPTION

The proposed project is located with a center coordinate of 26° 7'33.08"N and 80° 6'22.23"W in the City of Fort Lauderdale, Florida in Section 01, Township 50 South, and Range 42 East. The project area consists of an approximately 50 linear foot seawall at the west end of Seville Street and along the east side of the Intracoastal Waterway (ICWW). The existing seawall consists of a concrete panel wall with a footer, concrete batter piles, and one (1) stormwater outfall.

3.0 METHODOLOGY

The methodology for identifying potential seagrass and benthic resources within the survey area included a review of the following resources:

- Florida Department of Environmental Protection (FDEP) GIS database (<https://ca.dep.state.fl.us/mapdirect/>)
- Florida Fish and Wildlife Research Institute (FWRI) GIS database (<https://geodata.myfwc.com/>)
- South Florida Water Management District (SFWMD) GIS database (<https://geo-sfwmd.hub.arcgis.com/>)

- National Oceanic and Atmospheric Administration (NOAA) Essential Fish Habitat (EFH) GIS database (<https://www.habitat.noaa.gov/apps/efhmapper/>)
- Aerial Photographs and Street Maps

The survey was conducted by swimming transects within the proposed project footprint. The transects ran parallel to the seawall and were spaced approximately 8-10 feet apart. A quantitative and qualitative sampling of each transect was conducted by two biologists using snorkeling gear. Substrate type and percent coverage and species composition of seagrasses (if applicable), as well as the occurrence of other benthic resources, were documented within the survey area. The in-water survey was conducted on July 9th, 2024, during an incoming (high) tide. The presence or absence of seagrass was documented in addition to any other benthic resources. See **Figure 2 – Aerial Map** for the location of the survey area.

Table 1 - Environmental Conditions During Seagrass Survey						
Date	Biologists	Survey Time	Weather Condition	Visibility (feet)	Tide (Start)	Tide (End)
07/09/2024	LC, BC	8:45am-9:45am	85 degrees, cloudy	2 ft	High	High

4.0 RESULTS

No species of seagrass were observed within the project area. The benthic community of the survey area consisted of a silt substrate with fuzzy finger algae, crushed shells, and leaf litter. Depths within the survey area varied from 4'-8', with depths increasing waterward of the seawall. Eastern oyster (*Crassostrea virginica*) clusters were observed along the length of the seawall.

The species of fish observed during the in-water survey included the checkered puffer (*Sphoeroides testudineus*), mangrove snapper (*Lutjanus griseus*), and porkfish (*Anisotremus virginicus*). Additional wildlife species observed during the survey was limited to the green iguana (*Iguana iguana*). See **Appendix A – Photographic Log** for photographs of the project area.

5.0 SUMMARY & CONCLUSIONS

Based on this site visit and benthic resources survey, seagrass and benthic resources do not appear to be present in the survey area. However, the contractor will still follow Best Management Practices (BMPs) such as floating turbidity barriers during construction to reduce any potential runoff into the Intracoastal Waterway. Additionally, the contractor will follow an approved Stormwater Pollution Prevention Plan (SWPPP) including erosion and sediment controls that will be implemented and maintained throughout all construction phases.

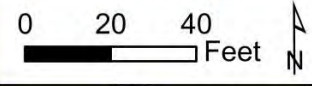
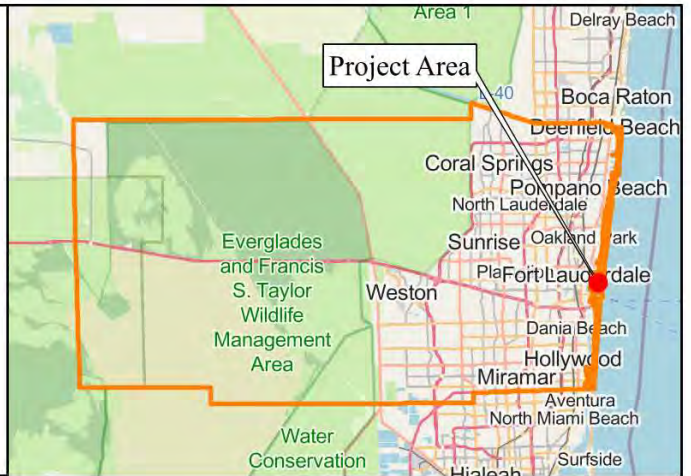
Although the West Indian manatee (*Trichechus manatus latirostris*) was not observed during field reconnaissance, marginal habitat exists within the project area. It is recommended that the project implements the **Standard Manatee Conditions for In-Water Work (Appendix B)** throughout construction. Additionally, all existing or proposed outfalls greater than 8 inches in diameter should contain a manatee grate that complies with Florida Fish and Wildlife (FWC) **Grates and Other Manatee Exclusion Devices for Culverts and Pipes** (October 2015) (**Appendix C**) to prevent manatee entrapment.

FIGURES

Figure 1: Project Location Map

Figure 2: Aerial Map

Broward County



Legend

Project Area

K:\WPB_GIS\WPB_Environmental\043184256 - Sebastian & Seville Seawall Replacement\MXD\NRA Figures\

Source: ESRI, FDOT, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Project Location Map

Seville Street Seawall Replacement
Broward County, Florida

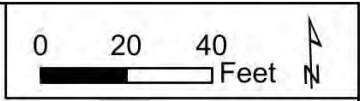
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1 inch = 40 feet

PROJECT NUMBER: 043184256

JULY 2024

FIGURE 1



K:\WPB_GIS\WPB_Environmental\043184256 - Sebastian & Seville Seawall Replacement\MXD\NRA Figures\

Legend

Project Area

Source: ESRI, FDOT, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Project Location Aerial Map

**Seville Street Seawall Replacement
Broward County, Florida**

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1 inch = 40 feet PROJECT NUMBER: 043184256 JULY 2024 FIGURE 2

Appendix A: Photographic Log



Photo 1 – Photo of Seville St seawall facing Northwest. Note concrete panel wall with concrete cap.



Photo 2 – Photo of Seville St seawall facing South. Note concrete panel wall with concrete cap.

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PHOTOGRAPHIC LOG

**Seville Street Seawall Replacement
 Broward County, Florida**

SCALE: NTS

PROJECT NO 043184256

DATE JULY 2024

PAGE 1



Photo 3 – Photo of survey area. Note silt and crushed shells substrate and leaf litter.



Photo 4 – Photo of survey area. Note silt and crushed shells substrate and presence of fuzzy finger algae.

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PHOTOGRAPHIC LOG

**Seville Street Seawall Replacement
 Broward County, Florida**

SCALE: NTS

PROJECT NO 043184256

DATE JULY 2024

PAGE 2



Photo 5 – Photo of survey area. Note silt and crushed shells substrate.



Photo 6 – Photo of survey area. Note silt and crushed shells substrate and porkfish (*Anisotremus virginicus*) observed.

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PHOTOGRAPHIC LOG

**Seville Street Seawall Replacement
 Broward County, Florida**

SCALE: NTS

PROJECT NO 043184256

DATE JULY 2024


PAGE 3



Photo 7 – Photo of survey area. Note outfall and oysters on sea wall.



Photo 8 – Photo of survey area. Note oysters on sea wall and footer.

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	Seville Street Seawall Replacement Broward County, Florida		
	SCALE: NTS	PROJECT NO 043184256	DATE JULY 2024

Appendix B: *Standard Manatee Conditions for In-Water Work*

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
- b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.
- d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.
- e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or in Vero Beach (1-772-562-3909) for south Florida, and emailed to FWC at ImperiledSpecies@myFWC.com.
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CAUTION: MANATEE HABITAT

All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work
all in-water activities must

SHUT DOWN

Report any collision with or injury to a manatee:



Wildlife Alert:

1-888-404-FWCC(3922)

cell *FWC or #FWC

Appendix C: *Grates and Other Manatee Exclusion Devices for Culverts and Pipes*

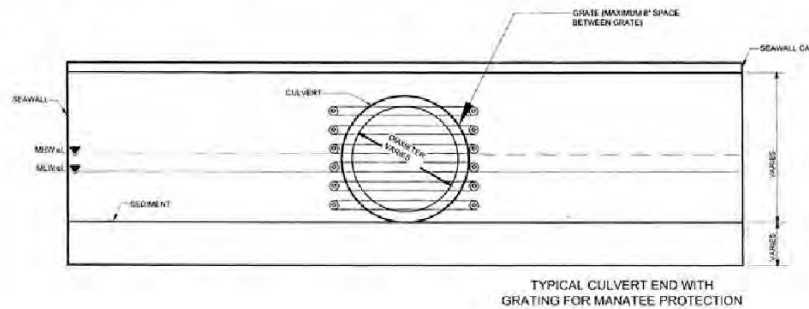


Grates and Other Manatee Exclusion Devices for Culverts and Pipes

October 2015

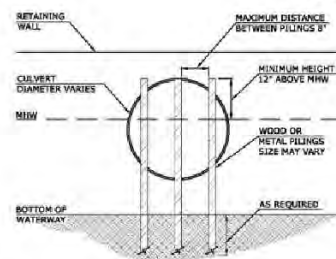
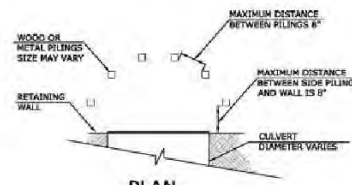
Numerous manatees have died from starvation or drowning after becoming stranded in culverts and pipes (such as storm water drains, dead-end culverts, etc.). Numerous manatees have been rescued from these structures, which seem to attract manatees due to the flow of fresh water, or the access that pipes or structures provide to other habitat. Because they cannot swim backwards, manatees can become entrapped when entering long or dead-end culverts.

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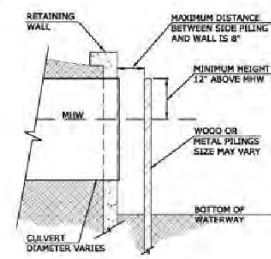


TYPICAL CULVERT END WITH GRATING FOR MANATEE PROTECTION

NOTE: Not all culverts and pipes present a risk to manatees, and some provide needed corridors for other wildlife. The decision to allow a culvert to remain accessible to manatees will depend on culvert length, water level, available habitat and other risk factors. These situations can be evaluated on a case-by-case basis by the FWC.



FRONT VIEW



SECTION

CULVERT ALTERNATIVE MANATEE BARRIER
N.T.S.



March 26, 2021, Rev 2 5/13/21

CHEN MOORE AND ASSOCIATES
500 W. Cypress Creek Road, Suite 630
Fort Lauderdale, FL 33309
Attn: Mr. Daniel Davila, P.E
email: ddavila@chenmoore.com

**RE: Geotechnical Services Report
Seville Street and Sebastian Street Replacements
at Intracoastal Waterway
Fort Lauderdale, FL
TSF Project No. 7111-21-090**

Dear Daniel:

As requested, TIERRA SOUTH FLORIDA, Inc. (TSF) has completed a Geotechnical review of soils for the seawall and roadway for the project. For the seawall, two (2) Standard Penetration Test (SPT) borings were extended to a depth of approximately 45 feet below existing grade at the above-referenced site. For the roadway, a total of two (2) SPT borings were extended to a depth of approximately 15 feet below grade, and four (4) asphalt cores were obtained, including the measure of the base material.

We understand that the existing retaining wall is starting to fail in the sections noted for these two locations.

The SPT borings were drilled using a CME-55 or D-50 truck-mounted drill rig. Samples of the in-place materials were recovered at frequent intervals using procedures noted in ASTM D1586. The samples of the in-place soils were returned to our laboratory for classification by a geotechnical engineer. The samples were classified in general accordance with the Unified Soil Classification System (ASTM D 2488). A limited amount of laboratory testing was completed to confirm the visual classifications. The lab testing was completed in accordance with test procedures noted below in Table 1. The results of the testing are included on the attached **Summary of Laboratory Tests, and Grain Size Data Sheets.**

Table 1 – Soil Sample Testing Methods	
Test Type	Test Method
Sieve Analysis	ASTM C 136 (AASHTO T 27)
Moisture Content	ASTM D 2216 (AASHTO T 265)
Atterberg Limits	Liquid Limit: ASTM D 4318 (AASHTO T 89) Plastic Limit: ASTM D 4318 (AASHTO T 90)
Organic Content	ASTM D 2974 (AASHTO T 267)

Borings B-1 and B-2 were completed to explore the seawall soils. Borings B-3 and B-4 were completed to explore the roadway soil. The boring locations are noted on the attached **Boring Location Plan - Sheet 1**. The soil profiles and SPT N-Values are noted on attached **Soil Profiles – Sheet 2 and Sheet 3**.

All SPTs were completed from within the roadway section, therefore had asphalt and limerock base at the surface. Four (4) asphalt cores were taken to explore the asphalt and based for the roadway sections. Information regarding the asphalt, base and general roadway are included in the attached **Pavement and Base Material Data Sheet**. Photos were obtained for the core field locations and core samples in the lab. Photos are attached as **Core Photos**.

For the SPTs tests, light brown to brown sand with trace shell, with a Classification of SP, followed the base at all locations. At the seawall the SP sand continued to a depth between 6 and 10 feet below grade and was followed by an organic silt (or peat) material, Classified as PT, for a layer depth of 2 to 5 feet. Below the PT material a thin layer of SP sand was encountered, and then a relatively hard limestone layer was encountered with a layer depth of at least 6 feet. The limestone layer was followed by a SP sand layer or intermittent with limestone/SP sand. The borings for the roadway had the SP sand for the full depth below the roadway base. Several layers had significant amounts of shell, or phosphate, or both shell and phosphate.

The above subsurface description is of a generalized nature intended to highlight the major subsurface stratification features and material characteristics. All referenced depths should be considered as approximate. The boring logs should be reviewed for specific information at individual boring locations. These records include soil descriptions, stratifications, and penetration resistances. The stratifications shown on the boring logs represent the conditions only at the actual boring locations. Variations may occur and should be expected between boring locations. The stratifications represent the approximate boundary between subsurface materials, and the actual transition may be gradual. Water level information obtained during field operations is also shown on the boring logs. The samples that were not altered by laboratory testing will be retained for 30 days from the date of this report and then will be discarded.

Based on soil conditions observed on-site in the SPT borings for the seawall, the soil layer may be modeled for wall analysis with the parameters noted below in Table 2. A relatively hard limestone layer exists at a depth of approximately 18 to 20 feet below grade, which likely will not be penetrable by the standard sheet piles. For this reason, a tie-back system may be feasible. A recommendation of soil parameters by wall depth is noted on the attached **Soil Parameters Table for Foundation Design**.

Table 2 – Sheet Pile Wall Soil Parameters						
Location	Saturated Unit Weight of Soil (pcf)	Saturated Unit Weight of Soil (pcf)	Internal Angle of Friction (phi–degrees)	Active Pressure Coefficient (ka)	Passive Pressure Coefficient (kp)	Cohesion (c)
B-1	110	47.5	30	.333	3.00	0
B-2	110	47.5	30	.333	3.00	0

Notes:

1. Saturated Unit Weight should be used for Design.
2. This table valid for a sheet pile wall length of 22 feet. Use attached values for different wall lengths.
3. The ML material has been given a zero N-Value to be discounted. The PT material had a zero value (Weight of Hammer) recorded N-Value.

The unsupported length of the front face of the wall should be considered at the bottom of the waterway to be conservative. The water level should be surveyed to determine the design dredge line value. Based on these conditions anticipated, it is estimated that the sheet pile length will need to be at least 22 to 25 feet below the ground surface.

A granular soil drainage section is anticipated at the top of the retaining wall. The use of granular material near the top of the pile will not change the design parameters noted herein. The groundwater on the active side of the wall should be modelled at the ground surface at the active side of the wall to be conservative.

As an alternative to tie-back walls, the limestone layer could be penetrated during construction to allow the sheet piles to attain a greater depth and attain stability without tie-backs. The below note may be included in the plans.

CONTRACTOR TO REVIEW CORE BORING SHEETS TO ANTICIPATE POSSIBLE DRIVING CONDITIONS. BORINGS ENCOUNTERED HARD LIMESTONE AND COMPACTED FILL. HARD DRIVING CONDITIONS MAY EXIST AND SHOULD BE ANTICIPATED. IN ORDER TO ACHIEVE REQUIRED PENETRATION DEPTH THE CONTRACTOR SHALL ANTICIPATE PREDRILLING, A PILE SECTION CAPABLE OF BEING DRIVEN THROUGH THE VARIOUS STRATA, AND/OR PILE DRIVING TIPS (TOE STRENGTHENING). PREDRILL HOLE DIAMETER TO BE APPROXIMATELY 2 INCHES LARGER THAN SHEET PILE WIDTH.

Ground vibrations induced by the compaction operations should be closely monitored to assess if there is a potential impact to any existing adjacent structures. Survey points on the nearby structure

should be established prior to installation and should be monitored for settlement during sheet pile installation. Some form of pre-drilling of the installation may be required to reduce vibrations levels.

To verify the soil conditions are properly interpreted, we request that TSF be included in the review process before the final plans are completed.

If you have any questions pertaining to this report, or if we may be of further service, please contact our office.

Very truly yours,
TIERRA SOUTH FLORIDA, INC.



Harmon C. Bennett, P.E.
Principal Engineer
FL Reg. No. 53130



Ramakumar Vedula, P.E.
Principal Engineer
FL Reg No. 54873



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

Harmon C
Bennett

Digitally signed by
Harmon C Bennett
Date: 2021.05.13
15:36:38 -04'00'

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

TIERRA SOUTH FLORIDA, INC
2765 VISTA PARKWAY 5-10
WEST PALM BEACH, FL 33411
CERTIFICATE OF AUTHORIZATION 28073
HARMON C. BENNETT, P.E. No.53130

Attachments:

- Summary of Laboratory Tests
- Grain Size Data Sheets
- Boring Location Plan - Sheet 1
- Soil Profiles – Sheet 2 and Sheet 3
- Pavement and Base Material Data Sheet
- Core Photos
- Soil Parameters Table for Foundation Design

SUMMARY OF LABORATORY TESTS
Seville Street and Sebastian Street Replacements
at Intracoastal Waterway
Fort Lauderdale, FL
TSF Project No. 7111-21-090

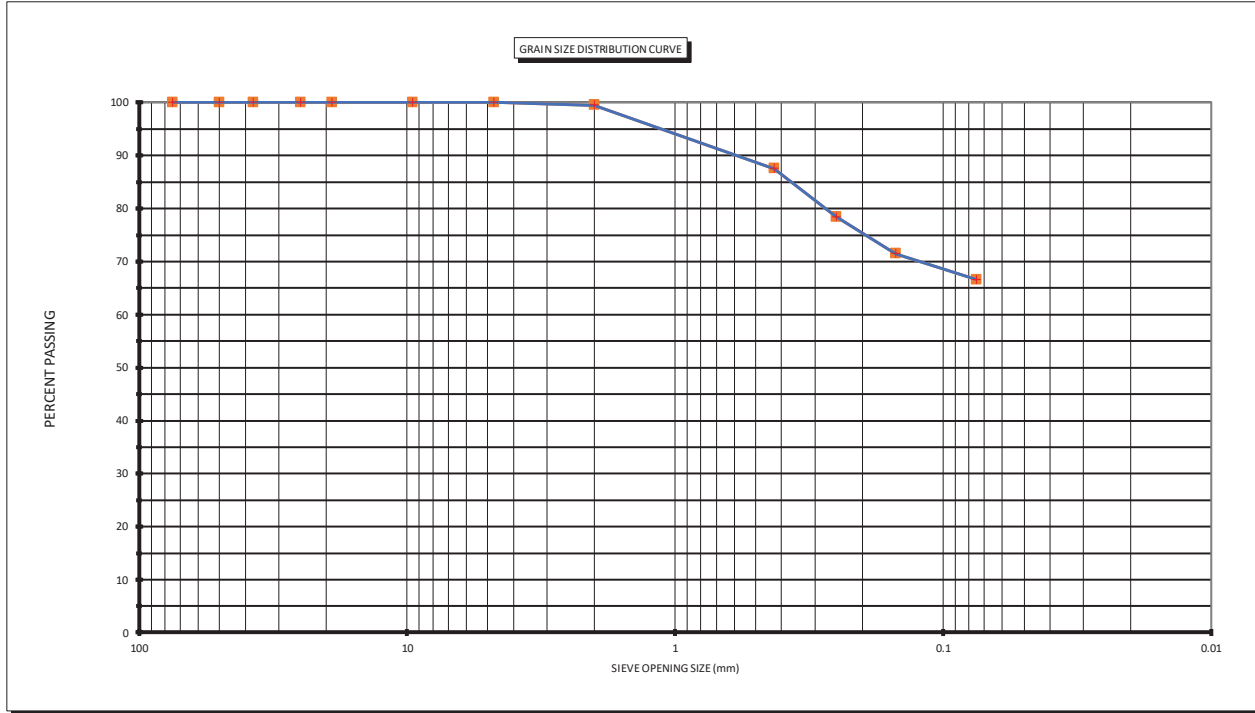
Boring Number	Sample Number	Sample Depth (ft)	Stratum Number	Unified Symbol	AASHTO Symbol	Sieve Analysis, Percentage Passing								Atterberg Limits			Organic Content (%)	Natural Moisture Content (%)
						3/4"	3/8"	#4	#10	#40	#60	#100	#200	Liquid Limit	Plastic Limit	Plasticity Index		
B-1	5	8' TO 10'	7	ML	A-4	100	100	100	99	88	78	71	67	29.3	NP	NP	4.9	55.1
B-2	2	2' TO 4'	8	SP-SM	A-1-b	97	95	92	84	39	20	10	7					15.8
B-2	5	8' TO 10'	11	SP-SM	A-1-b	100	100	99	93	34	14	4	2					18.6
B-2	7	13.5' TO 15'	4	PT	A-8	100	99	98	97	94	91	87	75				18.4	119.9
B-4	3	4' TO 6'	8	SP	A-1-b	100	100	99	91	10	4	3	2					21.1



GRAIN SIZE DATA SHEET

PROJECT NAME: Seville Street and Sebastian Street Replacements
LOCATION: at Intracoastal Waterway
PROJECT #: Fort Lauderdale, FL

DATE: 3/22/2021



ASTM D 2487 Classification of Soil for Engineering Purposes		Coarse Sand	< #4 and > #10	$Cu = D_{60} / D_{10}$
Coarse Gravel	< 3" and > 3/4"	Medium Sand	< #10 and > #40	$Cc = (D_{30})^2 / (D_{10} \times D_{60})$
Fine Gravel	< 3/4" and > #4	Fine Sand	< #40 and > #200	

BORING # B-1 **SAMPLE #** 5 **DEPTH (ft):** 8' TO 10'
STRATUM: 7

SOIL CLASSIFICATION: A-4
MC% 55.1
OC% 4.93
-200% 67
DARK GRAY ORGANIC SILT (ML)

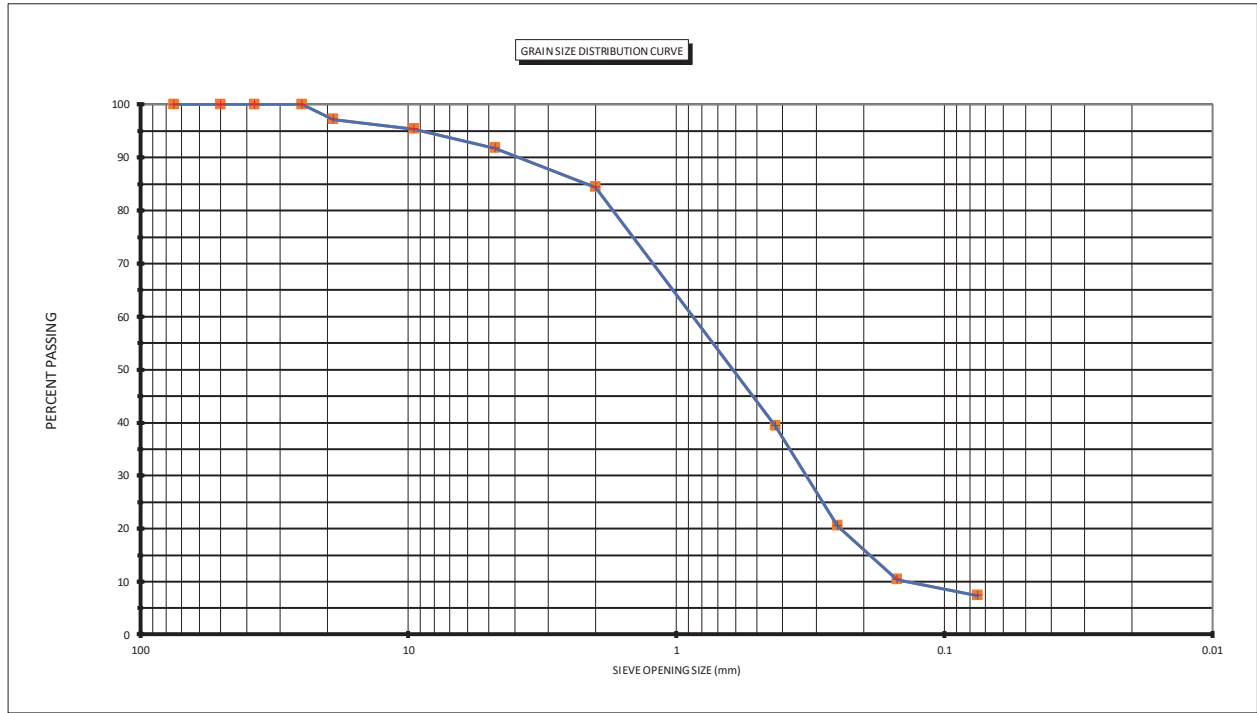
ATTERBERG LIMIT (- #40 Material)	
LIQUID LIMIT	29.3
PLASTIC LIMIT	NP
PLASTIC INDEX	NP



GRAIN SIZE DATA SHEET

PROJECT NAME: Seville Street and Sebastian Street Replacements
 LOCATION: at Intracoastal Waterway
 PROJECT #: Fort Lauderdale, FL

DATE: 3/22/2021



ASTM D 2487 Classification of Soil for Engineering Purposes		Coarse Sand	< #4 and > #10	$C_u = D_{60} / D_{10}$
Coarse Gravel	< 3" and > 3/4"	Medium Sand	< #10 and > #40	$C_c = (D_{30})^2 / (D_{10} \times D_{60})$
Fine Gravel	< 3/4" and > #4	Fine Sand	< #40 and > #200	

BORING # B-2 SAMPLE # 2 DEPTH (ft): 2' TO 4'
 STRATUM: 8

SOIL CLASSIFICATION: A-1-b
 MC% 15.8
 OC% 7
 -200% 7
LIGHT BROWN TO BROWN SAND (SP) WITH TRACE SHELL

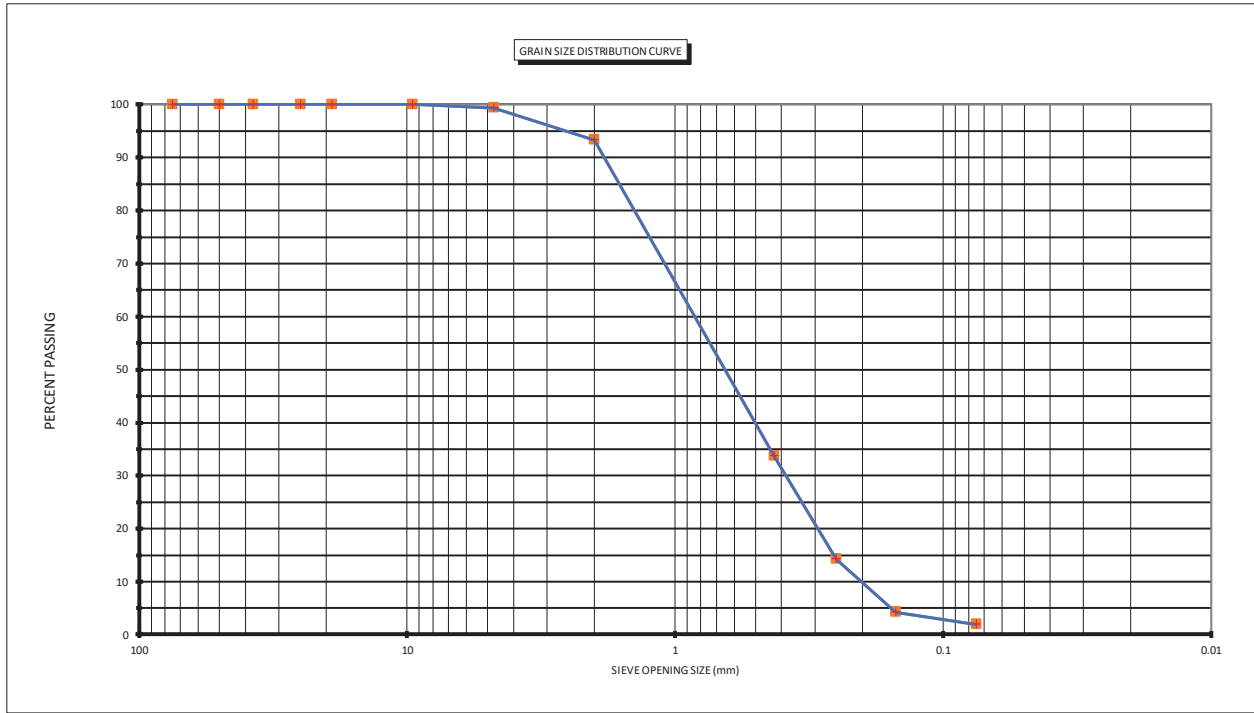
ATTERBERG LIMIT (- #40 Material)	
LIQUID LIMIT	
PLASTIC LIMIT	
PLASTIC INDEX	



GRAIN SIZE DATA SHEET

PROJECT NAME: Seville Street and Sebastian Street Replacements
LOCATION: at Intracoastal Waterway
PROJECT #: Fort Lauderdale, FL

DATE: 3/22/2021



ASTM D 2487 Classification of Soil for Engineering Purposes		Coarse Sand	< #4 and > #10	$C_u = D_{60} / D_{10}$
Coarse Gravel	< 3" and > 3/4"	Medium Sand	< #10 and > #40	$C_c = (D_{30})^2 / (D_{10} \times D_{60})$
Fine Gravel	< 3/4" and > #4	Fine Sand	< #40 and > #200	

BORING # B-2 **SAMPLE #** 5 **DEPTH (ft):** 8' TO 10'
STRATUM: 11

SOIL CLASSIFICATION: A-1-b
MC% 18.6
OC% 2
-200% 2

LIGHT BROWN TO BROWN SAND (SP) WITH TRACE TO SOME PHOSPHATE

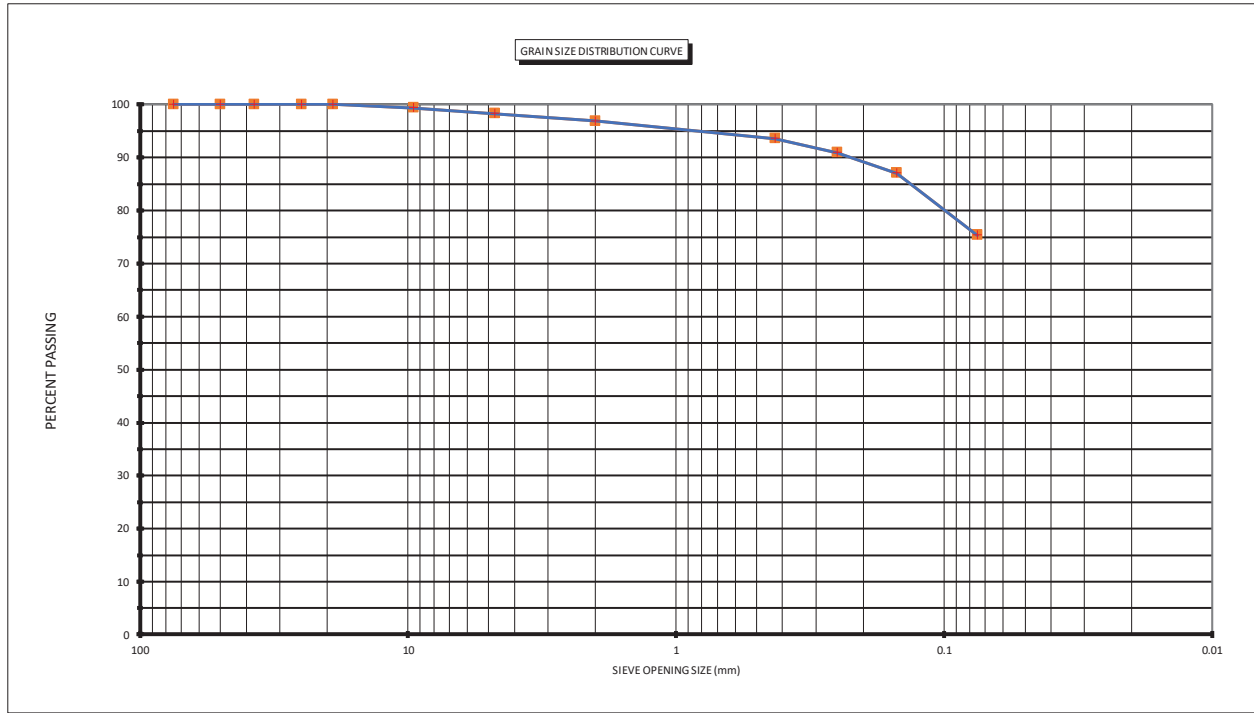
ATTERBERG LIMIT (- #40 Material)	
LIQUID LIMIT	
PLASTIC LIMIT	
PLASTIC INDEX	



GRAIN SIZE DATA SHEET

PROJECT NAME: Seville Street and Sebastian Street Replacements
LOCATION: at Intracoastal Waterway
PROJECT #: Fort Lauderdale, FL

DATE: 3/22/2021



ASTM D 2487 Classification of Soil for Engineering Purposes		Coarse Sand	< #4 and > #10	$C_u = D_{60} / D_{10}$
Coarse Gravel	< 3" and > 3/4"	Medium Sand	< #10 and > #40	$C_c = (D_{30})^2 / (D_{10} \times D_{60})$
Fine Gravel	< 3/4" and > #4	Fine Sand	< #40 and > #200	

BORING # B-2 **SAMPLE #** 7 **DEPTH (ft):** 13.5' TO 15'
STRATUM: 4

SOIL CLASSIFICATION: A-8
MC% 119.9
OC% 18.45 **ORGANIC PEAT (PT)**
-200% 75

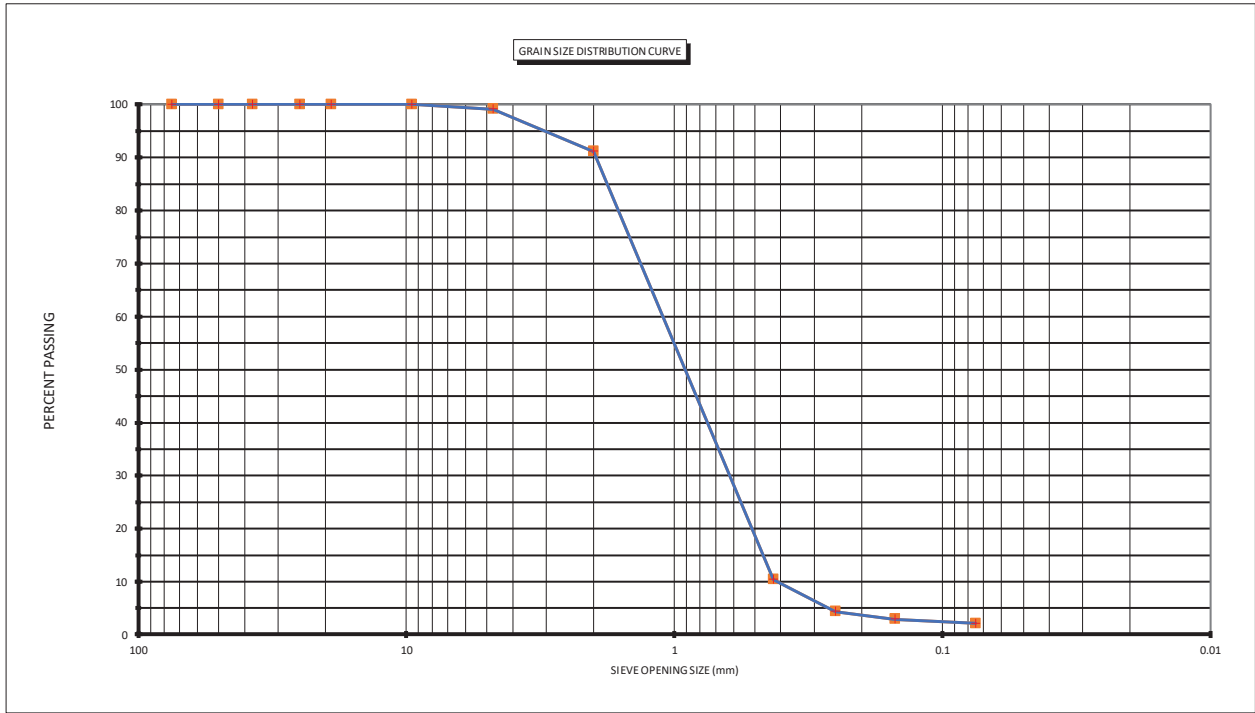
ATTERBERG LIMIT (- #40 Material)	
LIQUID LIMIT	
PLASTIC LIMIT	
PLASTIC INDEX	



GRAIN SIZE DATA SHEET

PROJECT NAME: Seville Street and Sebastian Street Replacements
LOCATION: at Intracoastal Waterway
PROJECT #: Fort Lauderdale, FL

DATE: 3/22/2021



ASTM D 2487 Classification of Soil for Engineering Purposes		Coarse Sand	< #4 and > #10	$C_u = D_{60} / D_{10}$
Coarse Gravel	< 3" and > 3/4"	Medium Sand	< #10 and > #40	$C_c = (D_{30})^2 / (D_{10} \times D_{60})$
Fine Gravel	< 3/4" and > #4	Fine Sand	< #40 and > #200	

BORING # B-4 **SAMPLE #** 3 **DEPTH (ft):** 4' TO 6'
STRATUM: 8

SOIL CLASSIFICATION: A-1-b
MC% 21.1
OC% 2
-200% 2

LIGHT BROWN TO BROWN SAND (SP) WITH TRACE SHELL

ATTERBERG LIMIT (- #40 Material)	
LIQUID LIMIT	
PLASTIC LIMIT	
PLASTIC INDEX	



BORINGS LOCATION PLAN

- ⊕ Approximate Location of SPT Boring
- ⊙ Approximate Location of Pavement Core

DRAWN BY: NG	APPROVED BY: RK	ENGINEER OF RECORD: RAJ KRISHNASAMY, P.E. <small>FLORIDA LICENSE NO.: 53567</small>
CHECKED BY: KV	DATE: 03-23-2021	


TIERRA SOUTH FLORIDA
 2765 VISTA PARKWAY, S-10
 WEST PALM BEACH, FL 33411

SCALE: NTS	PROJECT NUMBER: 7111-21-090
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BORING LOCATION PLAN
SEVILLE STREET AND SEBASTIAN STREET
REPLACEMENT AT INTRACOSTAL WATERWAY
 HOLLYWOOD, FLORIDA

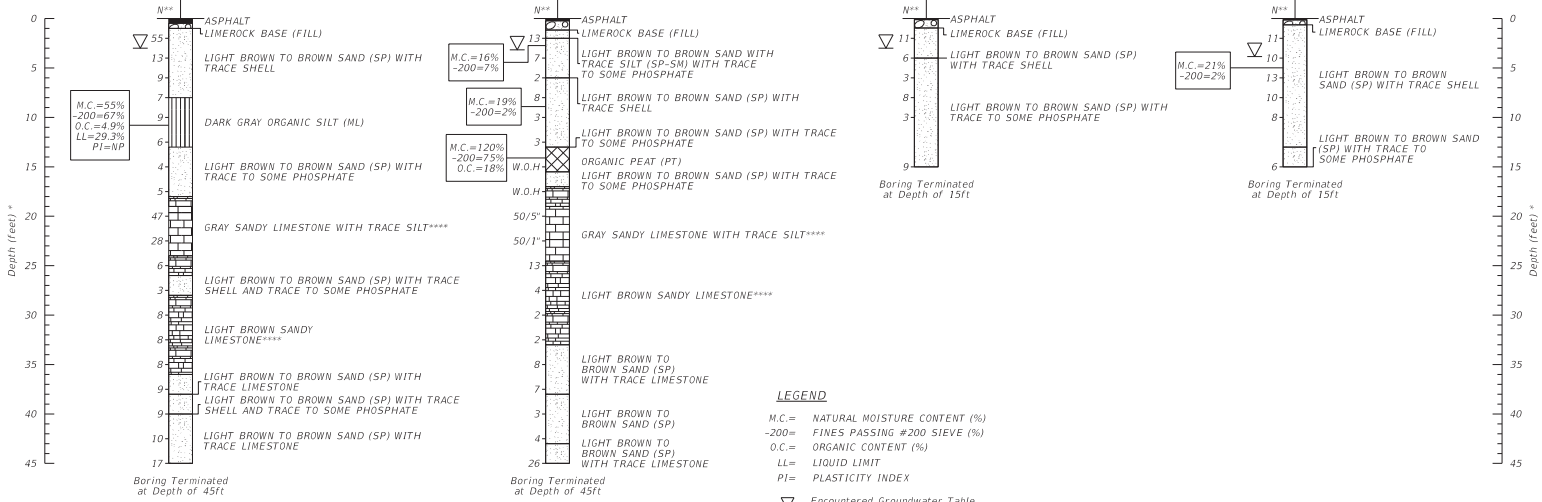
Sheet:
1

BOR # B-1
 DATE 3/19/2021
 HAMMER AUTO
 ***LATITUDE 26.125830
 ***LONGITUDE -80.106125

BOR # B-2
 DATE 3/20/2021
 HAMMER AUTO
 ***LATITUDE 26.124216
 ***LONGITUDE -80.106181

BOR # B-3
 DATE 3/20/2021
 HAMMER AUTO
 ***LATITUDE 26.125881
 ***LONGITUDE -80.105553

BOR # B-4
 DATE 3/20/2021
 HAMMER AUTO
 ***LATITUDE 26.124231
 ***LONGITUDE -80.105383



LEGEND

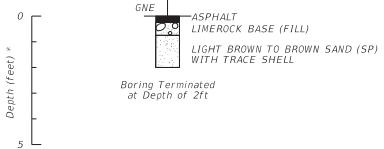
- M.C.= NATURAL MOISTURE CONTENT (%)
- 200= FINES PASSING #200 SIEVE (%)
- O.C.= ORGANIC CONTENT (%)
- LL= LIQUID LIMIT
- PI= PLASTICITY INDEX
- ▽ Encountered Groundwater Table
- Asphalt
- Gravelly Sand
- Sand
- Peat
- Limestone Soft
- Limestone Hard
- Silt

NOTES

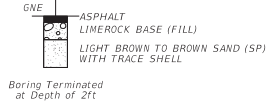
- * DENOTES DEPTH IN FEET FROM EXISTING GROUND SURFACE
- ** SPT N-VALUES SHOWN ABOVE WERE OBTAINED USING AUTOMATIC HAMMERS. GENERALLY DESIGN CORRELATIONS AND PROGRAMS USE SAFETY HAMMER N-VALUES. HENCE, THE ABOVE N-VALUES NEED TO BE MULTIPLIED BY 1.24 TO OBTAIN EQUIVALENT SAFETY HAMMER N-VALUES FOR DESIGN PURPOSE
- *** LATITUDE AND LONGITUDE ARE APPROXIMATE, BASED ON HANDHELD GPSmap GARMIN 78s. ACTUAL BORING LOCATIONS COULD VARY
- **** THE LIMESTONE STRATA ENCOUNTERED WITHIN THE PROJECT SITE CORRESPOND TO A ROCK FORMATION THAT TYPICALLY OFFER HIGH RESISTANCE TO EXCAVATION AND DRILLING. SPECIAL EQUIPMENT AND BREAKING TOOLS ARE TYPICALLY REQUIRED TO EXCAVATE AND DRILL WITHIN THESE LIMESTONE LAYERS. THESE LIMESTONE LAYERS ARE ALSO DIFFICULT TO DEWATER DUE TO THEIR HIGH POROSITY AND PERMEABILITY.

DRAWN BY: NG CHECKED BY: KV	APPROVED BY: RK DATE: 03-23-2021	ENGINEER OF RECORD: RAJ KRISHNASAMY, P.E. FLORIDA LICENSE NO.: 53567	TIERRA SOUTH FLORIDA 2765 VISTA PARKWAY, S-10 WEST PALM BEACH, FL 33411	SCALE: NTS	PROJECT NUMBER: 7111-21-090	SOIL PROFILES SEVILLE STREET AND SEBASTIAN STREET REPLACEMENT AT INTRACOSTAL WATERWAY HOLLYWOOD, FLORIDA	Sheet: 2
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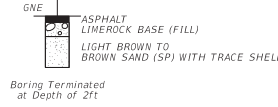
BOR # PC-1
 DATE 3/20/2021
 ***LATITUDE 26.124217
 ***LONGITUDE -80.105699



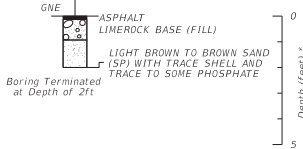
BOR # PC-2
 DATE 3/20/2021
 ***LATITUDE 26.124725
 ***LONGITUDE -80.105534



BOR # PC-3
 DATE 3/20/2021
 ***LATITUDE 26.125446
 ***LONGITUDE -80.105683



BOR # PC-4
 DATE 3/20/2021
 ***LATITUDE 26.125859
 ***LONGITUDE -80.105791



LEGEND

- GNE Groundwater Not Encountered
- Asphalt
- Gravelly Sand
- Sand

NOTES

- * DENOTES DEPTH IN FEET FROM EXISTING GROUND SURFACE
- ** SPT N-VALUES SHOWN ABOVE WERE OBTAINED USING AUTOMATIC HAMMERS. GENERALLY DESIGN CORRELATIONS AND PROGRAMS USE SAFETY HAMMER N-VALUES. HENCE, THE ABOVE N-VALUES NEED TO BE MULTIPLIED BY 1.24 TO OBTAIN EQUIVALENT SAFETY HAMMER N-VALUES FOR DESIGN PURPOSE.
- *** LATITUDE AND LONGITUDE ARE APPROXIMATE, BASED ON HANDHELD GPSmap GARMIN 78s. ACTUAL BORING LOCATIONS COULD VARY

DRAWN BY: NG	APPROVED BY: RK	ENGINEER OF RECORD: RAJ KRISHNASAMY, P.E. <small>FLORIDA LICENSE NO.: 53567</small>
CHECKED BY: KV	DATE: 03-23-2021	

TIERRA SOUTH FLORIDA
 2765 VISTA PARKWAY, S-10
 WEST PALM BEACH, FL 33411

SCALE: NTS	PROJECT NUMBER: 7111-21-090
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SOIL PROFILES SEVILLE STREET AND SEBASTIAN STREET REPLACEMENT AT INTRACOSTAL WATERWAY HOLLYWOOD, FLORIDA

Sheet: 3

**Seville Street and Sebastian Street Replacements
at Intracoastal Waterway
Fort Lauderdale, FL
TSF Project No. 7111-21-090
Pavement and Base Material Data Sheet**

Latitude	Longitude	Core ID	Core Date	Number of Layers Estimated	Pavement Layers (in.)						Total Core Length (in.)	Base Material		Subgrade		Crack	Pavement Condition*	Rut Depth (in.)	Cross Slope (%)	Cross Slope Direction	Notes
					Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6		Base Stratum 1 I/R	Total Base Thickness (in.)	Type Stratum	Thickness (in.)						
26.124217	-80.105699	PC-1	3/20/2021	3	1	0.8	0.8				2.6	6	6.0	GRANULAR SAND WITH TRACE SHELL	12.0	2.6	Good	0.1	1	Out	FULL DEPTH CRACK.
26.124725	-80.105534	PC-2	3/20/2021	2				1.3	1.7		3	8	8.0	GRANULAR SAND WITH TRACE SHELL	10.0	3	Good	0.1	5.2	Out	FULL DEPTH CRACK. CORE IN UNDERLYING JOINT. POSSILBE LAYER SEPARATION
26.125446	-80.105683	PC-3	3/20/2021	2				1	1.8		2.8	7	7.0	GRANULAR SAND WITH TRACE SHELL	10.0	2.8	Good	0.1	5.2	Out	FULL DEPTH CRACK. CORE IN UNDERLYING JOINT.
26.125859	-80.105791	PC-4	3/20/2021	1	1.7						1.7	10	10.0	GRANULAR SAND WITH TRACE SHELL AND PHOSPHATE	6.0	-	Good	0.1	0.7	Out	

Note - Latitude and Longitude are approximate

ESTIMATE OF ASPHALT TYPE *

Pavement Layer Code (1)	SP1F
Pavement Layer Code (2)	SP1F
Pavement Layer Code (3)	SP1F
Pavement Layer Code (4)	SP2F
Pavement Layer Code (5)	SP2C

Pavement Conditions:

G = Good
F = Fair
P = Poor
B = Bad

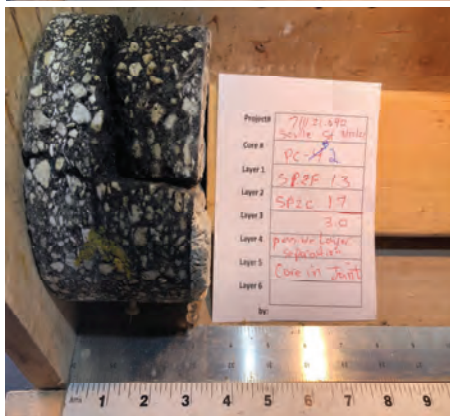
* Pavement conditions based on visual observations only.

Core Photos
Seville Street and Sebastian Street Replacements
at Intracoastal Waterway
Fort Lauderdale, FL
TSF Project No. 7111-21-090



Core ID PC-1
 Core Date 3/20/2021
 Latitude 26.124217
 Longitude -80.105699
 Lane R1
 Roadway Sebastian
 Pavement Layer 1 SP1F 1
 Pavement Layer 2 SP1F 0.8
 Pavement Layer 3 SP1F 0.8
 Pavement Layer 4 SP2F
 Pavement Layer 5 SP2C
 Total Core Length (in.) 2.6
 Base Material Thickness (in.) 1 LR 6

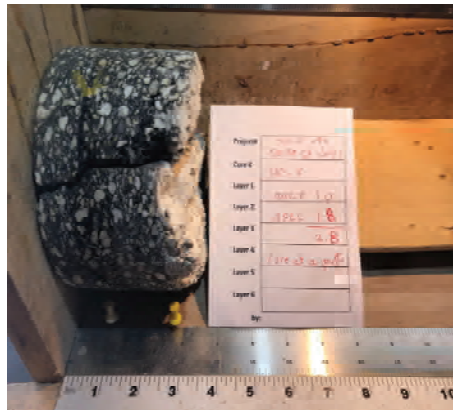
Stabilized Subgrade? GRANULAR SAND WITH TRACE SHELL
 Stabilized Subgrade Thickness (in.) 12
 Crack * Depth (in.) 2.6
 Full Depth Crack? YES
 Pavement Condition Good
 Rut Depth (in.) 0.1
 Cross Slope (%) 1
 Cross Slope Direction Out
 Comments FULL DEPTH CRACK.



Core ID PC-2
 Core Date 3/20/2021
 Latitude 26.124725
 Longitude -80.105534
 Lane R1
 Roadway N. Birch Rd
 Pavement Layer 1 SP1F
 Pavement Layer 2 SP1F
 Pavement Layer 3 SP1F
 Pavement Layer 4 SP2F 1.3
 Pavement Layer 5 SP2C 1.7
 Total Core Length (in.) 3
 Base Material Thickness (in.) 1 LR 8

Stabilized Subgrade? GRANULAR SAND WITH TRACE SHELL
 Stabilized Subgrade Thickness (in.) 10
 Crack * Depth (in.) 3
 Full Depth Crack? YES
 Pavement Condition Good
 Rut Depth (in.) 0.1
 Cross Slope (%) 5.2
 Cross Slope Direction Out
 Comments FULL DEPTH CRACK. CORE IN UNDERLYING JOINT. POSSIBLE LAYER SEPARATION

Core Photos
Seville Street and Sebastian Street Replacements
at Intracoastal Waterway
Fort Lauderdale, FL
TSF Project No. 7111-21-090



Core ID PC-3
 Core Date 3/20/2021
 Latitude 26.125446
 Longitude -80.105683
 Lane L1
 Roadway N. Birch Rd
 Pavement Layer 1 SP1F
 Pavement Layer 2 SP1F
 Pavement Layer 3 SP2F
 Pavement Layer 4 SP2F 1
 Pavement Layer 5 SP2C 1.8
 Total Core Length (in.) 2.8
 Base Material Thickness (in.) 1 LR 7

Stabilized Subgrade? GRANULAR SAND WITH TRACE SHELL
 Stabilized Subgrade Thickness (in.) 10
 Crack * Depth (in.) 2.8
 Full Depth Crack? YES
 Pavement Condition Good
 Rut Depth (in.) 0.1
 Cross Slope (%) 5.2
 Cross Slope Direction Out
 Comments FULL DEPTH CRACK. CORE IN UNDERLYING JOINT.



Core ID PC-4
 Core Date 3/20/2021
 Latitude 26.125859
 Longitude -80.105791
 Lane R1
 Roadway Seville
 Pavement Layer 1 SP1F 1.7
 Pavement Layer 2 SP1F
 Pavement Layer 3 SP1F
 Pavement Layer 4 SP2F
 Pavement Layer 5 SP2C
 Total Core Length (in.) 1.7
 Base Material Thickness (in.) 1 LR 10

Stabilized Subgrade? GRANULAR SAND WITH TRACE SHELL AND PHOSPHATE
 Stabilized Subgrade Thickness (in.) 6
 Crack * Depth (in.) -
 Full Depth Crack?
 Pavement Condition Good
 Rut Depth (in.) 0.1
 Cross Slope (%) 0.7
 Cross Slope Direction Out
 Comments

**Seville Street and Sebastian Street Replacements
at Intracoastal Waterway
Fort Lauderdale, FL
TSF Project No. 7111-21-090
Soil Parameters Table for Foundation Design**

Structure Location/Information	N-value (Automatic Hammer)	N-Value (Equivalent Safety Hammer)	Soil Type	Approx. Unit Weight (pcf)	Approx. Submerged Unit Weight (pcf)	Soil Angle of Friction (Degrees)
Reference Boring No. B-1						
			0.0 FT TO 0.5 FT - ASPHALT			
			0.5 FT TO 1.0 FT - LIMEROCK BASE (FILL)			
			1.0 FT TO 8.0 FT - LIGHT BROWN TO BROWN SAND (SP) WITH TRACE SHELL			
			8.0 FT TO 13.0 FT - DARK GRAY ORGANIC SILT (ML)			
			13.0 FT TO 18.0 FT - LIGHT BROWN TO BROWN SAND (SP) WITH TRACE TO SOME PHOSPHATE			
			18.0 FT TO 28.0 FT - GRAY SANDY LIMESTONE WITH TRACE SILT			
			28.0 FT TO 38.0 FT - LIGHT BROWN TO BROWN SAND (SP) WITH TRACE SHELL AND TRACE TO SOME PHOSPHATE			
			38.0 FT TO 40.0 FT - LIGHT BROWN SANDY LIMESTONE			
			36.0 FT TO 38.0 FT - LIGHT BROWN TO BROWN SAND (SP) WITH TRACE LIMESTONE			
			38.0 FT TO 40.0 FT - LIGHT BROWN TO BROWN SAND (SP) WITH TRACE SHELL AND TRACE TO SOME PHOSPHATE			
2.00	35	68	ASPH/BASE/SP	125	62.6	34
4.00	13	16	SP	110	47.6	30
6.00	9	11	SP	110	47.6	30
8.00	7	9	SP	105	42.6	29
10.00	0	0	ML	100	37.6	26
12.50	0	0	ML	100	37.6	26
15.00	0	0	ML/SP	100	37.6	26
17.50	5	6	SP	105	42.6	29
20.00	47	58	SP/LIMESTONE	125	62.6	34
22.50	28	35	LIMESTONE	120	57.6	33
25.00	6	7	LIMESTONE	105	42.6	29
27.50	3	4	LIMESTONE/SP	105	42.6	28
30.00	8	10	SP/LIMESTONE	105	42.6	30
32.50	8	10	LIMESTONE	105	42.6	30
35.00	8	10	LIMESTONE	105	42.6	30
37.50	9	11	LIMESTONE/SP	110	47.6	30
40.00	9	11	SP	110	47.6	30
42.50	10	12	SP	110	47.6	30
45.00	17	21	SP	115	52.6	32
NOTE - A ZERO BLOW COUNT VALUE USED TO DISCOUNT THE ML LAYER FROM 8 TO 13 FT						
Soil Parameters based on Weighted Averages, per Depth of wall, from 10-foot to 44-foot, on 2-foot intervals						
Depth (ft)	N-value (Automatic Hammer)	N-Value (Equivalent Safety Hammer)	Soil Type Modelled As	Approx. Unit Weight (pcf)	Approx. Submerged Unit Weight (pcf)	Soil Angle of Friction (Degrees)
Weighted Average (0-10 ft):	17	21	Sand	115	52.6	32
Weighted Average (0-12 ft):	17	21	Sand	115	52.6	32
Weighted Average (0-14 ft):	13	16	Sand	110	47.6	30
Weighted Average (0-16 ft):	11	14	Sand	110	47.6	30
Weighted Average (0-18 ft):	10	12	Sand	110	47.6	30
Weighted Average (0-20 ft):	15	19	Sand	110	47.6	30
Weighted Average (0-22 ft):	15	19	Sand	110	47.6	30
Weighted Average (0-24 ft):	16	20	Sand	110	47.6	30
Weighted Average (0-26 ft):	15	19	Sand	110	47.6	30
Weighted Average (0-28 ft):	14	17	Sand	110	47.6	30
Weighted Average (0-30 ft):	14	17	Sand	110	47.6	30
Weighted Average (0-32 ft):	14	17	Sand	110	47.6	30
Weighted Average (0-34 ft):	13	16	Sand	110	47.6	30
Weighted Average (0-36 ft):	13	16	Sand	110	47.6	30
Weighted Average (0-38 ft):	13	16	Sand	110	47.6	30
Weighted Average (0-40 ft):	12	15	Sand	110	47.6	30
Weighted Average (0-42 ft):	12	15	Sand	110	47.6	30
Weighted Average (0-44 ft):	12	15	Sand	110	47.6	30

Note 1: The Weighted Average N-Value for various depths has been converted to equivalent N-Value of safety hammer if a automatic hammer was used.

Note 2: Submerged condition should be considered in the foundation design.

**Seville Street and Sebastian Street Replacements
at Intracoastal Waterway
Fort Lauderdale, FL
TSF Project No. 7111-21-090
Soil Parameters Table for Foundation Design**

Depth (ft)	N-value (Automatic Hammer)	N-Value (Equivalent Safety Hammer)	Soil Type	Approx. Unit Weight (pcf)	Approx. Submerged Unit Weight (pcf)	Soil Angle of Friction (Degrees)
2.00	13	16	ASPH/BASE/SP-SM	110	47.6	30
4.00	7	9	SP	105	42.6	29
6.00	2	2	SP	100	37.6	26
8.00	8	10	SP	105	42.6	30
10.00	3	4	SP	105	42.6	28
12.50	3	4	SP	105	42.6	28
15.00	0	0	PT/SP	100	37.6	26
17.50	0	0	SP	100	37.6	26
20.00	60	74	SP	125	62.6	34
22.50	60	74	SP	125	62.6	34
25.00	13	16	SP/LIMESTONE	110	47.6	30
27.50	4	5	LIMESTONE	105	42.6	29
30.00	2	2	LIMESTONE	100	37.6	26
32.50	2	2	LIMESTONE	100	37.6	26
35.00	8	10	LIMESTONE/SP	105	42.6	30
37.50	7	9	SP	105	42.6	29
40.00	3	4	SP	105	42.6	28
42.50	4	5	SP	105	42.6	29
45.00	26	32	SP	120	57.6	33
NOTE - WEIGHT OF HAMMER AT 15 AND 17.5, AND LIMITED BELOWS AT 20 AND 22.5 TO 60						
Soil Parameters based on Weighted Averages, per Depth of wall, from 10-foot to 44-foot, on 2-foot intervals						
Depth (ft)	N-value (Automatic Hammer)	N-Value (Equivalent Safety Hammer)	Soil Type Modelled As	Approx. Unit Weight (pcf)	Approx. Submerged Unit Weight (pcf)	Soil Angle of Friction (Degrees)
Weighted Average (0-10 ft):	7	9	Sand	105	42.6	29
Weighted Average (0-12 ft):	7	9	Sand	105	42.6	29
Weighted Average (0-14 ft):	6	7	Sand	105	42.6	29
Weighted Average (0-16 ft):	5	6	Sand	105	42.6	29
Weighted Average (0-18 ft):	4	5	Sand	105	42.6	29
Weighted Average (0-20 ft):	11	14	Sand	110	47.6	30
Weighted Average (0-22 ft):	11	14	Sand	110	47.6	30
Weighted Average (0-24 ft):	17	21	Sand	115	52.6	32
Weighted Average (0-26 ft):	16	20	Sand	110	47.6	30
Weighted Average (0-28 ft):	15	19	Sand	110	47.6	30
Weighted Average (0-30 ft):	14	17	Sand	110	47.6	30
Weighted Average (0-32 ft):	14	17	Sand	110	47.6	30
Weighted Average (0-34 ft):	13	16	Sand	110	47.6	30
Weighted Average (0-36 ft):	13	16	Sand	110	47.6	30
Weighted Average (0-38 ft):	12	15	Sand	110	47.6	30
Weighted Average (0-40 ft):	12	15	Sand	110	47.6	30
Weighted Average (0-42 ft):	12	15	Sand	110	47.6	30
Weighted Average (0-44 ft):	12	15	Sand	110	47.6	30

Note 1: The Weighted Average N-Value for various depths has been converted to equivalent N-Value of safety hammer if a automatic hammer was used.

Note 2: Submerged condition should be considered in the foundation design.



Schedule your next project today!

BLOOD HOUND
UNDERGROUND UTILITY LOCATORS

6500 Technology Center Drive Suite 200
Indianapolis, IN 46278
1-888-858-9830

811 You should always have public utilities located by 811 before digging.

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The subsurface utilities depicted are for informational purposes only. Blood Hound is not a licensed surveying or engineering firm. Independent verification is required for any official use, including design or construction.
- 2. Utility Detection Limitations**
Subsurface utility detection was conducted using methods that may include electromagnetic (EM) locating and/or ground-penetrating radar (GPR). The accuracy of these methods can be affected by electromagnetic interference, soil composition, and groundwater conditions.
- 3. Depth Accuracy**
Unless confirmed through test holes (potholing), any subsurface utility depths shown were estimated using EM or GPR technologies and are approximate.
- 4. GNSS Equipment and Accuracy**
Utility locations were designated using a vLoc3 RTK-Pro GNSS receiver unless otherwise noted. GNSS data accuracy is subject to limitations based on signal quality, environmental factors, and equipment tolerances.

Web Map Viewer Terms

- 5. Utility Data in Viewer**
The web map viewer provides access to utility data collected during fieldwork. This data is for informational purposes only and should not be used for design or construction without independent verification.
- 6. Basemap Alignment**
Google Satellite imagery has varying levels of positional accuracy. As a result, collected features will be accurately placed in their real-world locations but may not align precisely with the basemap.
- 7. Data Validity**
Utility data reflects site conditions at the time of collection. Changes to site conditions may occur, and the data may no longer be accurate over time.

8. Access Duration
The web map viewer link will remain active for 6 months and will be deactivated afterward. For extended access, please contact our team at bhugcad@bhug.com

9. Agreement to Terms
By accessing the web map viewer link below, you acknowledge and agree to these terms and conditions.

<https://bhug.geolantis.com>

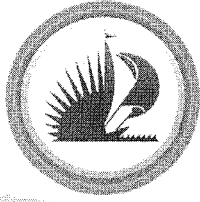


Use Edge or Chrome to open the map link.

Work order#: **00281001** Client: **FG Construction LLC** Scale: **NTS**
 Work type: **Locating** Project Manager: **Kevin Goncalves** Address: **2901 Seville St, Fort Lauderdale, FL, 33304** Date: **6/4/2025 10:12:52 AM**

Legend

Elec. Line	Elec. Riser	Elec. Transf.	Leader Line	Note	Utility Pole
Work Limits - White					



PROCUREMENT SERVICES DEPARTMENT
PRE-BID MEETING SIGN-IN SHEET



DATE: 01/15/2026 TIME: 10:00 AM PM

OPENING DATE: 02/12/2026 PROCUREMENT CONTACT: Santrecia Harden

EVENT#: 550 TITLE: Sebastian and Seville Seawall Replacement

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