



INVITATION TO BID (ITB) O-01520

**SELMON EXPRESSWAY OVER HIMES AVENUE (#100308 AND #100309) DECK AND SLAB
RESTORATION AND SLAB REPLACEMENT**

ITB Issue Date: 9/4/2020

ITB Response Due Date: 10/8/2020

RESPONSIBLE DEPARTMENT

Brian Pickard, PE
Director of Operations & Engineering

PROCUREMENT DEPARTMENT

Man Le, PMP
Procurement Manager
1104 East Twiggs Street, Suite 300
Tampa, Florida 33602
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Attachments:

- Restoration Details of Selmon Expressway Over Himes Deck Repair.pdf
- Concrete Restoration Technical Special Provision (TSP).pdf
- Specifications Package

Reference Documents:

- Original Approach Slabs 100308 100309 Crosstown over Himes Ave.pdf

Exhibits

- A ~ Public Entity Crime
- B ~ Drug-Free Work Place
- C ~ Bid Proposal Forms
- D ~ Anticipated SBE
- E ~ Conflict of Interest

I. INTRODUCTION

The Tampa Hillsborough Expressway Authority (THEA) is soliciting sealed bids from qualified firms to provide all the labor, equipment, materials, tools, transportation, supplies, insurance, incidentals, mobilization, demobilization and maintenance of traffic necessary to provide restoration of the Selmon Expressway over Himes Avenue bridge decks and approach slabs, and replacement of the Selmon Expressway over Himes Avenue eastbound departure slab. The title of the project is as follows:

- SELMON EXPRESSWAY OVER HIMES AVENUE (#100308 AND #100309) DECK AND SLAB RESTORATION AND SLAB REPLACEMENT (O-01520)

II. SCOPE OF WORK

01010 - SUMMARY OF WORK

1. DESCRIPTION

- 1.01 This section provides a general summary or overview of the work to be performed in the Invitation to Bid (ITB) No. O-01520. In performing the work, the contract documents, plans and specifications shall be adhered to. This project is to be let as a lump sum.

2. SCOPE OF WORK

- 2.01 The general Scope of Work consists of, but is not limited to: Providing all the labor, equipment, materials, tools, transportation, supplies, insurance, incidentals, mobilization, demobilization and maintenance of traffic necessary to:

- 2.01.01 Remove and replace the departure slab for Bridge #100309 (Selmon Expressway Eastbound over Himes Avenue).

2.01.01.01 The limits of removal shall be the entire approach slab except for the portion of slab supporting the median parapet transition to guardrail. Removal shall be within three (3) inches from this parapet with care taken not to damage the existing reinforcing. The existing reinforcing shall be cleaned, straightened and extended a minimum of two (2) feet into the new approach slab.

2.01.01.02 The existing departure slab shall be removed to the full depth of the concrete and replaced to the same depth. Reinforcement shall be removed and replaced to match existing and the it shall be overlapped with the existing rebar at the traffic railing construction joints to ensure the entire slab will function as the original design intended.

2.01.01.03 Replacement includes concrete, reinforcing bars, grinding, grooving and striping. Permanent striping patterns shall match existing.

2.01.01.04 The Contractor shall diamond grind the final surface to the match the existing elevation and to meet straightedge requirements. This may

require overpouring the slab to provide appropriate final surface elevations.

2.01.01.05 The Contractor shall apply epoxy at all cold joints between existing and proposed concrete.

2.01.01.06 The slab shall be ground to meet straightedge requirements, and the final surface shall include a Class 4 Deck Finish and grooving in accordance with Specification Section 400-15.2.5.

2.01.02 Perform restoration of the bridge decks, approach slabs of Bridges #100308 and #100309 (Selmon Expressway Westbound and Eastbound over Himes Avenue), and departure slab of Bridge #100308.

2.01.02.01 Perform work per the enclosed drawing entitled "Concrete Deck Restoration Details Bridge Nos. 100308 & 100309" as well as the Technical Special Provisions (TSP) provided herein this document as an Attachment.

2.01.02.02 Proposed temporary and permanent striping patterns shall match existing.

2.02 The following materials are anticipated. This listing is not all-inclusive and it is the Contractor's responsibility to incorporate into the bid any additional items which may be needed.

ITEM DESCRIPTION
TRAFFIC CONTROL OFFICER
MAINTENANCE OF TRAFFIC
REMOVAL OF EXISTING STRUCTURES/BRIDGES
BORROW EXCAVATION, TRUCK MEASURE
TYPE B STABILIZATION
CONCRETE CLASS II, APPROACH SLABS
REINFORCING STEEL - APPROACH SLAB
RESTORE SPALLED AREAS, EPOXY
LATEX MODIFIED PORTLAND CEMENT CONCRETE (TYPE III CEMENT)
EPOXY MATERIAL FOR CRACK INJECTION – STRUCTURES REHAB
INJECT AND SEAL CRACK – STRUCTURES REHAB
PENETRANT SEALER
METHACRYLATE MONOMER
CLEANING AND SEALING CONCRETE SURFACES
RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS
PAINTED PAVT MARK, STD, WHITE, SOLID, 6"
PAINTED PAVT MARK, STD, WHITE, SKIP, 6", 10'-30' SKIP OR 3'-9' SKIP
PAINTED PAVT MARK, STD, YELLOW, SOLID, 6"
PERMANENT TAPE, WHITE, SOLID 6" FOR CONCRETE BRIDGES
PERMANENT TAPE, WHITE, SKIP/DOTTED, 6" FOR CONCRETE SURFACES
PERMANENT TAPE, YELLOW, SOLID, 6" FOR CONCRETE BRIDGES
PERMANENT TAPE, BLACK, SKIP/DOTTED, 6" FOR CONCRETE SURFACES
PREFORMED, PERMANENT TAPE, REMOVE

This is a Lump Sum project. It is the Contractor's responsibility to determine all quantities for which the bid will be based on.

- 2.03 The deck and approach slab restoration and replacement activities are to be performed in accordance with the latest edition of the Florida Department of Transportation (FDOT), Standard Specifications for Road and Bridge Construction and Standard Plans. All Concrete debris, reinforcing bars and associated unsuitable materials, as a result of this demolition and restoration are the property of the Contractor for appropriate disposal offsite. In addition, the Contractor shall perform concrete replacements and restorations in accordance with all applicable manuals, guidelines, standards, handbooks, procedures and current design memorandums.
 - 2.03.01 Concrete mix shall be an FDOT-approved design for Class II (Bridge Deck) concrete in accordance with FDOT Standard Specifications for Road and Bridge Construction Section 400-20 (Approach Slabs).
 - 2.03.02 Concrete and epoxy injection material for restoration areas will require prior approval by THEA before its implementation on the Project.
 - 2.03.03 The Contractor shall adhere to the TSP and Restoration Details provided herein this document as an Attachment.
- 2.04 The temporary and permanent striping activities are to be performed in accordance with the latest edition of the Florida Department of Transportation (FDOT), Standard Specifications for Road and Bridge Construction. In addition, the Contractor shall install pavement markings in accordance with all applicable manuals, guidelines, standards, handbooks, procedures and current design memorandums.
 - 2.04.01 706 – Retro-Reflective Pavement Markers
 - 2.04.02 710 – Painted Pavement Markings
 - 2.04.03 713 – Permanent Tape Pavement Markings
- 2.05 Maintenance of Traffic, (MOT), to be provided by the Contractor during all set-up and take-down activities and work activities. Maintenance of Traffic to include at a minimum one (1) off-duty law enforcement officer per detour activity. Maintenance of Traffic to be performed by “MOT certified” staff in accordance with the latest edition of the Florida Department of Transportation (FDOT), Standard Specifications for Road and Bridge Construction, Section 102, Maintenance of Traffic and the latest edition of the Florida Department of Transportation (FDOT) Standard Plans for Road Construction.
 - 2.05.01 In an effort to minimize the inconvenience to THEA customers, THEA will only permit total closure of the eastbound lanes in this area from Friday night at 7:00 PM until 6:00 AM Monday morning, in order for the Contractor to complete the work on the Selmon Expressway Eastbound bridge. The following weekend, the Contractor shall complete the same operation for the westbound direction within the same duration, Friday night at 7:00 PM to Monday morning at 6:00 AM.
 - 2.05.02 Single lane closures shall only be permitted for lifting preparation work and for final striping activities. No other single lane closures shall be allowed.

- 2.05.03 THEA has an existing approved detour route for this area through its involvement with the Selmon West Extension Project. This detour may be implemented for this construction work, however the Contractor shall receive written authorization from the adjacent Selmon West Extension Project Contractor (Kiewit) prior to implementation.
- 2.06 Perform the work during the weekend between the hours of 7:00 PM on a Friday night and 6:00 AM the following Monday. The work may be performed across two non-sequential weekends, however work for each direction of travel shall be performed in the same weekend to minimize full closure and detours. Single lane closures specifically for work identified in Section 2.05.02 shall be permitted from 9:00 AM to 4:00 PM and from 8:00 PM to 5:30 AM.
- 2.07 Work performance total duration is **90 calendar days**.
- 2.08 The Contractor is to take any and all precautions to protect the vehicular traffic and any appurtenances during all phases of construction. All claims for damage due to the activities of the Contractor and/or its sub-contractors will be the responsibility of the Contractor.
- 2.09 The Contractor shall be responsible for liquidated damages for failure to complete the work necessary to allow THEA to re-establish tolling upon reopening the full closure within the Contractor's Maintenance of Traffic Plan. The Contractor shall coordinate with THEA and its tolling contractor (Transcore) as needed to minimize interruptions to the ITS equipment in the performance of the work.
- 2.10 Contractor shall grind the new approach slab to meet straightedge requirements and provide a smooth transition between the slab and the adjacent asphaltic concrete pavement.

3. SUBMITTALS

- 3.01 Submit the following in accordance with shop drawing submittal requirements of the General Provisions.
 - 3.01.01 Maintenance of Traffic Plan. The Contractor shall prepare and submit to THEA a Maintenance of Traffic Plan in accordance with the most recent edition of the Florida Department of Transportation (FDOT), Standard Plans for Road Construction Section.
 - 3.01.01.01 The previously-approved detour plan shall be included with written authorization from the Selmon West Extension Contractor.
 - 3.01.01.02 The Maintenance of Traffic Plan shall include signed and sealed drawings for any offsite detours which deviate from the previously-approved detour plan.
 - 3.01.02 Rehabilitation Plan. The Contractor shall prepare and submit to THEA a Deck and Approach Slab Rehabilitation Plan for each direction of travel for review and approval. Provide the Rehabilitation Plan a minimum of 30 days prior to the start time to allow for THEA review.

- 3.01.03 Shop drawings. All concrete and epoxy injection materials shall be prepared and submitted to THEA for approval.

4. CONTRACT DRAWINGS

- 4.01 Construction drawings and specifications have been prepared for this project. Drawings provided may not be reflective of all existing conditions the Contractor may encounter. All existing conditions to be encountered shall be verified as to the character, quality, and quantity of work to be performed and materials to be furnished in the performance of the construction drawings. The Contractor shall base their bid solely on their own opinion of the conditions likely to be encountered, and promptly notify THEA of any deviations or disagreements found in the drawings, specifications and/or general conditions or existing field conditions.
- 4.01.01 Construction Drawings
- 4.01.01. Restoration Details of Crosstown Over Himes Deck Repair.pdf
- 4.02 Drawings, Diagrams, Reports and Photographs are provided for reference of existing conditions as illustrative and not inclusive of all existing conditions and not intended to limit or take the place of an examination of existing conditions by the Contractor. Drawings/Markups provided for the Contractor's information are included below.
- 4.02.01 Drawings
- 4.02.01. Original Approach Slabs 100308 100309 Crosstown over Himes Ave.pdf
- 4.03 Specifications Packages have been prepared for this project and shall constitute as a control of the work. The following specifications are required to be followed by the Contractor and no deviations are permitted.
- 4.03.01 Specifications Package
- 4.03.02 Concrete Restoration Technical Special Provision (TSP).pdf

5. PRODUCTS

- 5.01 None

6. EXECUTION

- 6.01 Work Sequence
- 6.01.01 The project schedule shall commence from the Notice to Proceed (NTP) date being Day One.
- 6.01.02 **All** contract work shall be completed within 90 calendar days of Day One as established by the NTP. Work to be performed between the hours of 7:00 PM on a Friday night and 6:00 AM the following Monday. All work shall be performed during a single weekend full closure for each direction of travel, except as allowed in Section 2.05 to prepare for full closure.

6.02 Issue Escalation

In the event issues arise during the prosecution of the work, the issue escalation and resolution will be processed as detailed herein.

- 6.02.01 All issues shall be directed to the CEI Construction Project Manager. The Contractor shall provide all supporting documentation relative to the issue being escalated, and any documentation not provided in the initial contact with the CEI Construction Project Manager shall not be considered.
- 6.02.02 If the issue cannot be resolved by the CEI in coordination with the General Engineering Consultant representing THEA as applicable, the General Engineering Consultant representing THEA shall forward the issue to THEA's Director of Operations and Engineering who will coordinate with the General Engineering Consultant representing THEA and CEI, as applicable.
- 6.02.03 Each escalation level shall have a maximum of five (5) calendar days (excluding weekends and THEA observed holidays) to answer, resolve, or address the issue.
 - 6.02.03.01 The five (5) calendar day period (excluding weekends and THEA observed holidays) begins when each level in the issue escalation process has received all required supporting documentation necessary to arrive at an informed and complete decision.
 - 6.02.03.02 The five (5) calendar day period (excluding weekends and THEA observed holidays) is a response time and does not infer resolution.
- 6.02.04 Questions asked by THEA may be expressed verbally and followed up in writing within one (1) calendar day (excluding weekends and THEA observed holidays). Responses provided by the Contractor may be expressed verbally and followed up in writing within one (1) working day.
- 6.02.05 Once a response is received from the Director of Operations and Engineering, the CEI will respond to the Contractor in a timely manner but not to exceed three (3) calendar days (excluding weekends and THEA observed holidays).
- 6.02.06 The Contractor shall provide a similar issue escalation process for their organization with personnel of similar levels of responsibility.

7. MEASUREMENT AND PAYMENT

- 7.01 See Section 01026

[END OF 01010 - SUMMARY OF WORK]

III. INSTRUCTIONS TO BIDDERS

1. THEA must receive all submittals at the locations stated below, not later than 2:00 PM Eastern on **10/8/2020**. Any submittal received after the stated time and date shall not be considered. It shall be the sole responsibility of the firm to have its package emailed to THEA. Submittals received after the deadline shall not be considered.
2. Attendance at the Pre-Bid Meeting is **mandatory** for all bidders.
3. Each firm shall examine all documents and shall determine all matters relating to the interpretation of such documents.
4. The following forms are required by THEA to be submitted as part of the Bid Proposal Package:
 - A ~ Public Entity Crime
 - B ~ Drug-Free Work Place
 - C ~ Bid Proposal Forms
 - D ~ Anticipated SBE
 - E ~ Conflict of Interest
 - F ~ FDOT prequalification letter for R&R (Repair & Rehabilitate) Intermediate Bridge
 - G ~ Transmittal Letter to include summary of firm's qualifications, contact information and proposed Project Manager's qualifications (2 page maximum).
5. All required forms and documents must be email to Man.le@tampa-xway.com ,with the subject title: **"Invitation to Bid O-01520 for the Tampa Hillsborough County Expressway Authority"** by the due date and time in the "Schedule of Events."
6. THEA shall not be liable for any expenses incurred in the preparation of the bid proposals.
7. THEA reserves the right to accept or reject any or all bid proposals, to waive irregularities and technicalities, and to request resubmission or to re-advertise for all or any part of the work. THEA shall be the sole judge of the submittals and the resulting negotiated agreement that is in THEA's best interest, and THEA's decision shall be final.
8. Joint proposals will not be accepted.
9. The successful firm shall be required to execute an agreement, in form and content acceptable to THEA, indemnifying and holding harmless THEA, its officials, officers, employees, and agents from all claims.
10. **Firms, their agents, or associates shall refrain from contacting or soliciting any THEA staff or members of the Board directly or indirectly regarding this ITB during the selection process. Failure to comply with this provision may result in the disqualification of the firm. All requests for clarification or additional information should be made in writing via email to: Man.Le@tampa-xway.com**

IV. QUALIFICATIONS:

1. The bidder must include with its proposal package all completed required forms as indicated in Section III Instructions to Bidders. Failure to submit all completed forms may be cause for rejection at the sole option of THEA.
2. Personnel proposed for the project shall be available to perform the work as described. All personnel shall be considered to be, at all times, the employees, or agents of the bidder and not employees or agents of THEA. Procedures shall be in place for prompt temporary replacement of absent employees and timely permanent replacement of staff vacancies.
3. The bidder shall designate from its staff a fulltime, qualified Project Manager having at least 5 years of experience in performing and/or administering similar types of work as this project. The Project Manager shall be the single point of contact as liaison with THEA during the procurement process and during performance of the project. The Project Manager shall be the responsible person in charge of coordinating day to day work activities, schedules, payment applications, directing the firm's work forces, reports, day to day administrative matters, coordinating the SBE policy to achieve the established goals and other related items necessary to fulfill the requirements of the Contract.
4. The bidder shall be prequalified with FDOT for the following construction work classes:
 - a. R&R (Repair & Rehabilitate) Intermediate Bridge

V. SELECTION PROCESS

The selection process for this ITB will consist of the following.

EVALUATION CRITERIA:

Proposals will be evaluated on whether the bidder is responsible and responsive to this solicitation, with the objective to evaluate those bids and responses and to award a contract for the work to the **lowest total bid price**.

THEA will determine the responsive and responsible bidder, in its sole and absolute discretion, considering all relevant facts and information.

FINAL SELECTION:

The bidder with the **lowest total bid price** will be presented to THEA's Board for consideration and approval with a recommendation that the bidder be selected per the Schedule of Events below.

VI. SCHEDULE OF EVENTS

EVENT	DATE/TIME
Release of ITB	9/4/2020
Mandatory Pre-Bid Meeting @ Transportation Management Center (TMC). 1104 E Twiggs St. Tampa, FL 33602 Meeting and coordination will be at TMC and the meeting will continue at the project site (the northeast corner of the Himes Bridge East Bound).	9/15/2020 @ 10:00 a.m.
Deadline for Questions/Request for Clarification	9/18/2020
Deadline for THEA to respond to firm's questions	9/22/2020
Bid Proposal Package Due Date/Time (Deadline) Submit proposal via email to Man.le@tampa-xway.com Public Opening of Proposals via Zoom Meeting	10/8/2020 by 2 p.m. EST
Posting of Notice of Intended Decision to THEA's website and Demandstar.	10/9/2020
Board Approval of Final Ranking & Decision	10/26/2020
Posting of Notice of Decision and Board Approval to THEA's website and Demandstar.	10/27/2020

VII. TERMS AND CONDITIONS

THEA reserves the right to reject all proposals, any proposal not conforming to this Invitation to Bid, and to waive any irregularity or informality with respect to any proposal. THEA further, reserves the right to request clarification of information submitted and to request additional information from one or more firms.

THEA requires that the firm selected will not discriminate under the contract against any person in accordance with federal, state, and local governments' regulations. THEA requires the firm selected make an affirmative statement to the effect that their retention shall not result in conflict of interests with respect to THEA.

THEA requires that the firm make an affirmative statement to the effect that they have not contacted, or attempted to contact, any member of the Board, or THEA staff, except as expressly permitted in the ITB.

EXHIBIT A

SWORN STATEMENT UNDER SECTION 287.133 (3)(a) FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

1. This sworn statement is submitted by _____ as
_____ of
_____ whose business address is
_____ and (if applicable) its
Federal Employer Identification Number (FEIN) is _____.
2. I understand that a “public entity crime” as defined in Section 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity in Florida or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
3. I understand that “convicted” or “conviction” as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.
4. I understand that “affiliate” as defined in Paragraph 287.133(1)(a), Florida Statutes, means:
 - A. A predecessor or successor of a person convicted of a public entity crime; or
 - B. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm’s length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.
5. I understand that a “person” as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

6. Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members or agents who are active in the management of _____, the entity, nor any affiliate of the entity have been convicted of a public entity crime subsequent to July 1, 1989.

By

Date

STATE OF
COUNTY OF

The foregoing instrument was acknowledged before me this _____ day of _____, 20____, by _____ who is personally known to me or who produced a _____ as identification and who did take an oath.

Notary Public

My commission expires:

EXHIBIT B

DRUG-FREE WORKPLACE FORM

The undersigned firm, in accordance with Florida Status 287.087 hereby certifies that
_____ does:

Name of Business

1. Publish a statement of 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 prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining 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.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in Paragraph 1.
4. In the statement specified in paragraph 1, notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employees will abide by the terms of a statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Florida Statute 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction of, or require the satisfactory participation in a drug abuse assistance or rehabilitation program is such is available in the employee's community, by any employee who is convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs 1 thru 5.

As the person authorized to sign this statement, I certify that this firm complies with the above requirements.

Firm's Signature

Date

EXHIBIT C

BID PROPOSAL FORM ~ ITB O-01520

(Print this page on bidder's letterhead)

Date: _____

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY (THEA)

Attention: Man Le

Procurement Manager

1104 East Twiggs Street, Suite 300

Tampa, FL 33602

Subject: SELMON EXPRESSWAY OVER HIMES AVENUE (#100308 AND #100309) DECK
AND SLAB RESTORATION AND SLAB REPLACEMENT~ ITB O-01520

Dear THEA:

Having carefully examined the Instructions to Bidders, Supplementary Instructions to Bidders, General Provisions, Supplementary General Provisions, Special Provisions and Technical Specifications, Plans or Drawings (if issued), of the above subject project and contract, as well as the premises and the conditions affecting the work, the undersigned proposes to furnish all labor and materials called for by them and equipment necessary and to accomplish the entire work within the time period indicated in accordance with the said documents for the prices presented in the price schedules included in this Bid Proposal Form.

The undersigned acknowledges that they understand the following conditions that within the price schedules any unit prices other than lump sum (i.e. EA, Ton, LF, Day, Month, CY, SY) and extended amounts indicated with brackets around the insertion lines are considered to be deducts or credits to the overall project cost. Calculations of price schedule extensions and price totals shall appropriately account for individual deductive and additive pay items.

TOTAL GENERAL CONSTRUCTION PRICE: \$ _____

TOTAL LUMP SUM BID PRICE \$ _____

WRITTEN AMOUNT: _____ **DOLLARS AND** _____ **CENTS**

The undersigned firm agrees to keep this offer open for acceptance for One Hundred Twenty (120) days after date of opening the Price Proposals.

The signer of this Price Proposal Form hereby declares that the only person, persons, company or parties interested in this Proposal as principals are named herein, that this Proposal is made without connection with any other person, persons, company or parties submitting a proposal; and that it is in all respects fair and in good faith, without collusion or fraud.

Name of Firm

Authorized Signature

Date

EXHIBIT D

ANTICIPATED SBE PARTICIPATION STATEMENT

Project: _____

Prime Bidder Name: _____

It is our intent to subcontract _____% of the project to SBE(s).

Listed below are the proposed SBE sub bidders _____ (to the extent known, please indicate whether the company holds, Minority, Women or Disadvantaged Business Enterprise Status.):

<u>SBE(s) Name</u>	<u>Type of Work/Specialty</u>	<u>Dollar Amount/Percentage</u>	<u>Minority Status</u>
--------------------	-------------------------------	---------------------------------	------------------------

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Submitted by: _____ Title: _____

E-mail Address: _____ Telephone number: _____

Date: _____

EXHIBIT E

CONFLICT OF INTEREST STATEMENT

Check one of the boxes below:

- ☐ To the best of our knowledge, the undersigned bidder has no potential conflict of interest due to any other clients, contracts, or property interest for this solicitation and project.

OR

- ☐ The undersigned bidder, by attachment to this form, submits information which **may** be a potential conflict of interest due to other clients, contracts or property interest for this solicitation and project.

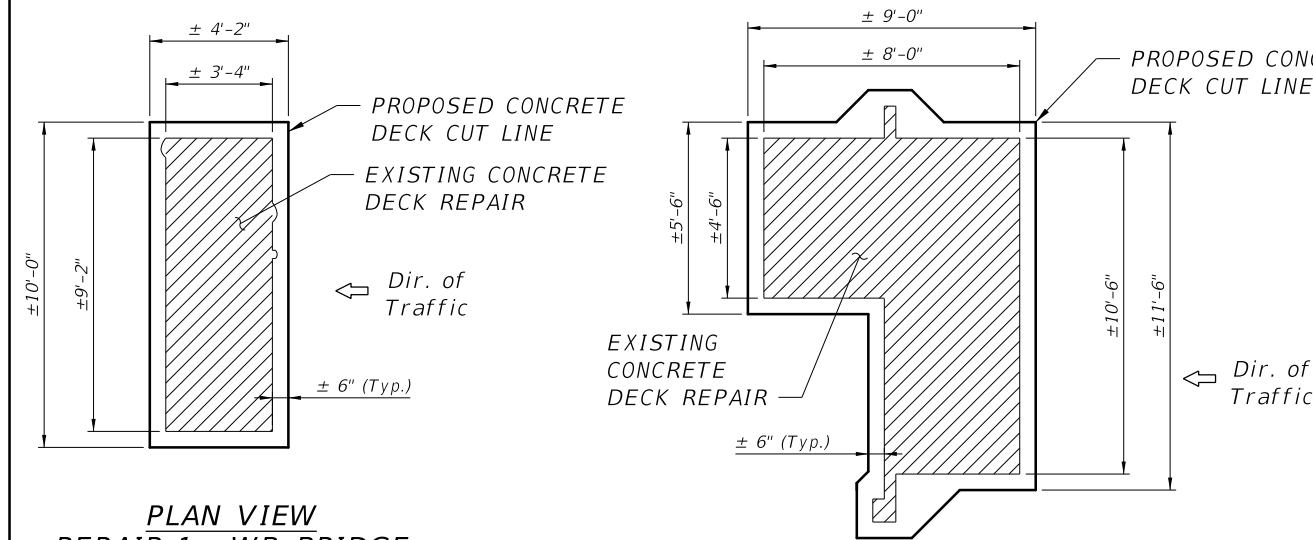
BIDDER:

By: _____
Authorized Signature

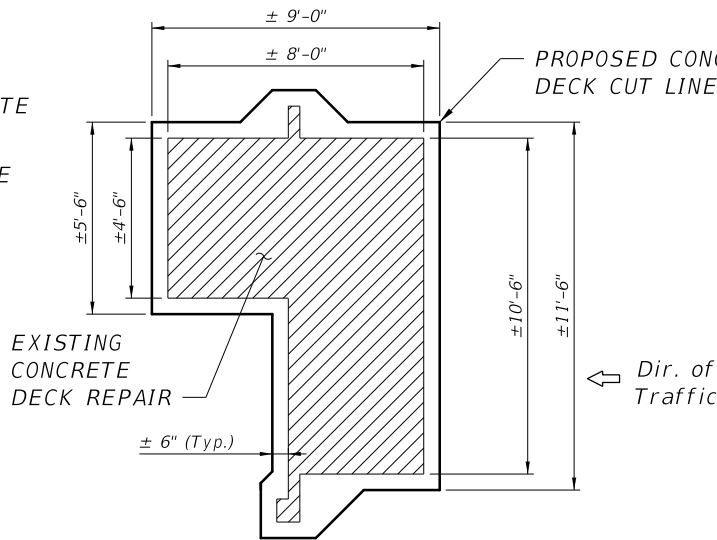
Printed Name of Signer

Title of Signer

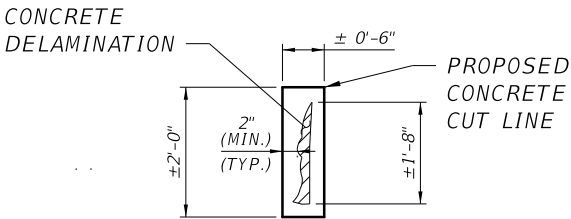
Date Signed



PLAN VIEW
REPAIR 1 - WB BRIDGE



PLAN VIEW
REPAIR 2 - WB BRIDGE
(USE 45 DEGREE CORNERS FOR THE AREA EXTENSIONS
AT TOP AND BOTTOM OF THE REPAIR AREA AS SHOWN)



PLAN VIEW
REPAIR 3 - WB BRIDGE

CONCRETE REPAIRS FOR BRIDGE 100308 (WB)				
REPAIR NUMBER	REPAIR LOCATION	*PHOTO NUMBER	REPAIR TYPE	Total
1	DECK - LANE 1 SPAN 2	1	SPALL REPAIR	42 SF
2	DECK - LANE 1 SPAN 2	2	SPALL REPAIR	78 SF
3	EB APP. SLAB - LANE 1	6	SPALL REPAIR	1 SF
4	WB APP. SLAB - LANE 2	3	EPOXY INJECTION	8 LF
5	EB APP. SLAB - LANE 1	5	EPOXY INJECTION	10 LF
6	WB APP. SLAB AND LEFT BARRIER	4	REMOVE VEGETATION AND SEAL JOINT	10 SF

*For all photos, refer to Bridge Inspection Report dated 7/30/2019.

CONCRETE REPAIRS FOR BRIDGE 100309 (EB)				
REPAIR NUMBER	REPAIR LOCATION	**PHOTO NUMBER	REPAIR TYPE	Total
1	DECK - LANE 2 SPAN 2	1	SPALL REPAIR	12 SF
2	WB APP. SLAB - LANE 1	3	SPALL REPAIR	3 SF
3	RIGHT BARRIER ABUTMENT 1	8	REMOVE GRAFFITI	10 LF

**For all photos, refer to Bridge Inspection Report dated 7/30/2019.
EB Approach Slab will be replaced entirely therefore no repairs are necessary.

GENERAL NOTES:

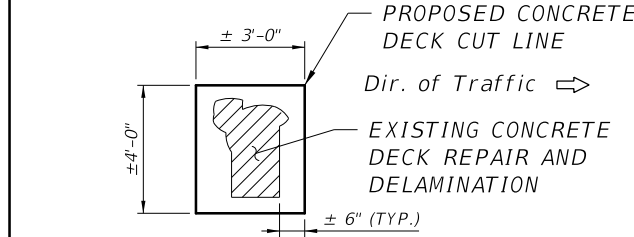
1. GENERAL SPECIFICATION:
FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, JULY 2020 EDITION.
2. DEFICIENCIES SHOWN ARE FOR ILLUSTRATION ONLY AND ANY DIMENSIONS ARE APPROXIMATE. IN THE PRESENCE OF THE ENGINEER, THE CONTRACTOR SHALL CLEARLY OUTLINE ALL AREAS IN NEED OF REPAIR WITH AN APPROVED PAINT OR MARKER PRIOR TO DEMOLITION. NO DEMOLITION OF ANY AREA OR MEMBER SHALL BE PERFORMED UNTIL THE CONTRACTOR RECEIVES APPROVAL FROM THE ENGINEER.
3. IF LAP SPLICES CANNOT BE PROVIDED WITHIN THE PROPOSED CUT LINES DUE TO CORROSION OF THE EXISTING REBARS, CONTACT THE ENGINEER FOR FURTHER DIRECTIONS.

TYPICAL SPALL REPAIR METHOD:

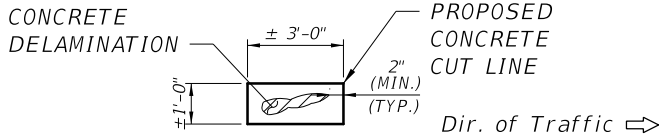
1. FOR CONCRETE RESTORATION, REMOVE AND REPAIR UNSOUND CONCRETE FROM AREAS TO BE REPAIRED IN ACCORDANCE WITH THIS SHEET AND THE TECHNICAL SPECIAL PROVISIONS PROVIDED. AREAS WELL ADHERED TO EXISTING DECK OR REINFORCEMENT SHALL REMAIN.
2. ALL REPAIRS SHALL BE MARKED FOR APPROVAL OF APPROXIMATE PERIMETER PRIOR TO INITIATION OF WORK.
3. ANY REINFORCEMENT WHICH IS LOOSE SHALL BE SECURED IN PLACE BY TYING TO OTHER SECURED BARS OR BY OTHER APPROVED METHODS. LAP SPLICES SHALL BE INSTALLED IN ACCORDANCE WITH THE TABLE PROVIDED.
4. CLEAN EXPOSED REBARS AND ANY LOOSE CONCRETE OR ABRASIVES PER TECHNICAL SPECIAL PROVISIONS PROVIDED. CLEAN STEEL SHALL NOT BE LEFT EXPOSED FOR MORE THAN 72 HOURS PRIOR TO ENCAPSULATION OF CONCRETE.
5. AN APPROVED BONDING COMPOUND LISTED ON THE FDOT'S APL LIST SHALL BE USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS BEFORE THE REPAIR MATERIAL IS APPLIED.
6. FILL VOIDS WITH REPAIR MATERIAL IN ACCORDANCE WITH THE TECHNICAL SPECIAL PROVISIONS PROVIDED AND FDOT SPECIFICATIONS.

TYPICAL CRACK REPAIR NOTES:

1. OBTAIN ENGINEER'S APPROVAL TO CARRY OUT CRACK REPAIR (IN LIEU OF SPALL REPAIR) FOR CASES WHERE ADJACENT CONCRETE IS OTHERWISE SOUND AND CRACKING IS NOT A RESULT OF CORRODING REINFORCEMENT.
2. ADDRESS EXISITING CRACKS IN ACCORDANCE WITH THIS SHEET AND FDOT STANDARD SPECIFICATION SECTION 411. ADDRESS CRACKS IN NEW CONSTRUCTION IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 400-21 & 411.
3. ADDRESS EPOXY INJECTION OF CRACKS IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 411.
4. ENGINEER TO APPROVE MATERIAL PRIOR TO BEGINNING OF REPAIR.



PLAN VIEW
REPAIR 1 - EB BRIDGE

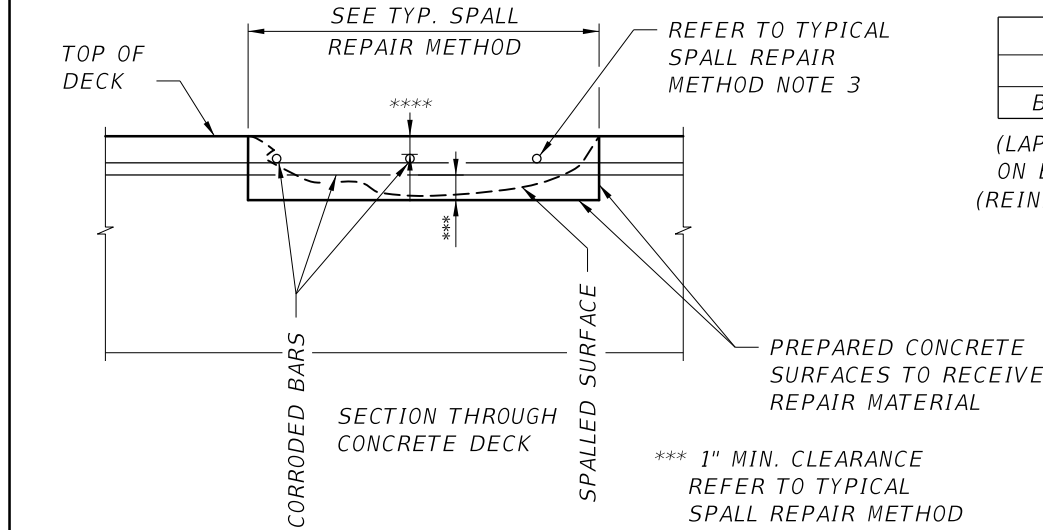


PLAN VIEW
REPAIR 2 - EB BRIDGE

LAP SPLICE TABLE	
REBAR SIZE	LAP SPLICE LENGTH
BARS 4 THRU 6	62 TIMES BAR DIAMETER

(LAP LENGTH PROVIDED ON THE TABLE SHALL BE ON EITHER SIDE OF THE EXISTING CORRODED BAR)
(REINFORCING STEEL SHALL BE ASTM A615, GRADE 60)

****WHERE POSSIBLE PROVIDE 1½" CONCRETE COVER. OTHERWISE, MATCH EXISTING COVER SO THAT THE FINISHED GRADE OF THE PATCHED AREA PROVIDES A SMOOTH RIDING SURFACE.



EXPOSING AND UNDERCUTTING DECK REINFORCING STEEL

(ONLY TOP LAYER OF DECK REINFORCING IS SHOWN FOR CLARITY)

REVISIONS				HNTB CORPORATION 201 N. FRANKLIN STREET, SUITE 1200 TAMPA, FL 33602 PHONE: (813) 402-4150 CERTIFICATE OF AUTHORIZATION NO. 6500 George Vaso, P.E. NO. 72509	TAMPA HILLSBOROUGH EXPRESSWAY AUTHORITY			CONCRETE DECK RESTORATION DETAILS BRIDGE NOS. 100308 & 100309		SHEET NO. 1
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
						HILLSBOROUGH				

TECHNICAL SPECIAL PROVISIONS

FOR

CONCRETE DECK RESTORATION

FINANCIAL PROJECT IDS:

Prepared for:
Tampa Hillsborough Expressway Authority

Prepared By: George Vaso, P.E.
November 21, 2019

T405 : CONCRETE RESTORATION

T405-1 Description:

Replace deteriorated concrete by placing polymer/latex modified concrete containing micro-silica or other specified material as indicated in the plans and these Technical Special Provisions.

For other specified materials, install in accordance with manufacturer's recommendations and the following installation requirements.

T405-2 Materials:

Mortar/concrete shall be polymer/latex modified-silica fume enhanced mortar/concrete and be approved by the engineer. The selected material shall achieve a minimum compressive strength of 4,500 psi in seven days and 5,500 psi in 28 days. Due to the nature of the repairs, materials applied with pneumatic sprayers are not allowed.

For horizontal spalls greater than 1 inch deep, use repair mortar that includes an FDOT approved aggregate in accordance with manufacturer's recommendations.

Proposed repair material and method of application (including manufacturer's specifications and formulation) shall be submitted to and approved by the Engineer prior to commencing work.

Materials must be applied in accordance with Section 400 of the FDOT Standards Specifications, these Technical Special Provisions, the plans, and the manufacturer's recommendations.

T405-3 Surface Preparation:

Perimeter of the repair area for all spall repairs to be saw cut along straight lines to 1- inch deep prior to removal of the existing concrete and repair material commences.

Remove deteriorated concrete to sound material (or limits described in plans) by chipping with light duty pneumatic or electric concrete chippers (30 LB or less).

Sandblast all reinforcing bars exposed after cleaning to leave a near white metal surface. Replace bars that have lost 1/4 or more of their original diameter with new bars spliced in place within the original cover, lapping sufficiently to develop the full strength of the bar as detailed in the plans and, if necessary, providing additional chipping. Dual bars of equivalent or greater section may be used. Where the bond between existing concrete and reinforcing steel has been destroyed, or where more than half the diameter of the steel is exposed, remove the concrete adjacent to the bar to a depth that will permit modified concrete to bond to the entire periphery of the exposed bar. A minimum of 1-inch clearance is required for this purpose. Prevent cutting, stretching or damaging of exposed reinforcing steel.

Sandblast clean existing concrete surfaces that will be in contact with freshly placed repair material and clean to remove loose material and dust immediately prior to application of repair material.

T405-4 Mixing:

Provide a Mix Plan for quantities of bag mix in excess of 1.0 cubic yard at a single location for the Engineer's approval including: manufacturer's specifications, method of mixing, means of application, and placement procedure to provide a homogenous pour free of cold joints. Use clean mixers and accurately proportioned ingredients. Mix the materials at the site in accordance with the specific equipment requirements. Ensure that the material, as discharged from the mixer, is uniform in composition and consistency.

T405-5 Quality Control:

A quality control/quality assurance (QC/QA) plan that shall govern all work shall be submitted by the Contractor to the Engineer for approval prior to commencing the installation work for the concrete restoration. Cost of the quality control and other technical services shall be included as incidental to the concrete restoration. No additional payments will be allowed for technical services.

As a minimum, include in the QC/QA Plan means and methods and equipment for removing the deficient concrete and cleaning the reinforcing steel, repair materials, and forming and placement methods (including testing). Also include frequency of intended QA visits and time to discuss QC and method of construction with Contractor's and the Engineer.

T405-6 Placing and Finishing:

Typical spall repair:

An epoxy bonding compound for bonding concrete, compatible with the repair material and approved by the Engineer, shall be applied and cured in accordance with approved manufacturer's instructions and Section 400-13 of the FDOT Standards Specifications. All work incidental to the concrete restoration work, shall be submitted to the Engineer for approval.

Typical crack repair:

Comply with FDOT Standard Specifications, Section 411.

T405-7 Limitations:

Make 4 to 6 extra test cylinders or cubes (as requested by the Engineer) and test for compressive strength gain determinations. The Engineer will determine the time of testing. Cure test cylinders in air for the full curing period required before testing. Do not place repair material at temperatures below 45°F, or above 85°F, or more stringent temperature ranges provided by the manufacturer unless adequate protection is provided against adverse effects of extreme temperature conditions.

Coarse aggregate for repair material (when bagged mix is used) shall be maintained at a clean, dry, location where protected from the elements to avoid material contamination. Amount of aggregate shall be as recommended by material manufacturer. Use coarse aggregate approved by the repair material manufacturer or from an FDOT approved source.

T405-8 Method of Measurement:

The quantity to be paid for will be the volume in the specified units of concrete repair material authorized, complete, in place and accepted. The method utilized in determining the volume shall be calculated by the Contractor for concurrence by the Engineer and will be the surface area multiplied by the average depth of such areas.

T405-9 Basis of Payment:

Payment will be made under:

Typical spall repair:

Price and payment will be full compensation for all work specified in this Technical Special Provision including all removals, surface preparations, bonding compound, concrete placement, forming, materials, equipment, tools, labor and other materials necessary to complete the work as outlined in these Technical Special Provisions and the plans.

Pay Item No. 405- 70- 2
Latex Modified Portland Cement Concrete
(Type III Cement) per cubic foot

Typical crack repair:

Per FDOT Standard Specifications, Section 411.

September 2, 2020
PREPARED BY: David Hubbard, P.E./Ed Ponce, P.E.



SPECIFICATIONS PACKAGE
THEA PROJECT ID. O-01520

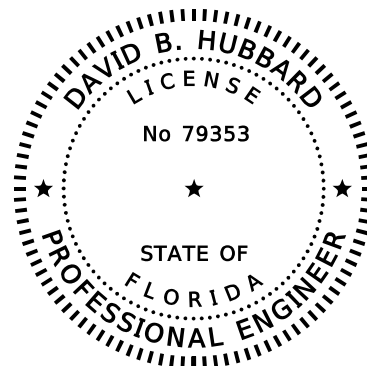
TAMPA HILLSBOROUGH EXPRESSWAY AUTHORITY
HILLSBOROUGH COUNTY

The July 2020 Edition of the Florida Department of Transportation Standard Specifications is revised as follows:

I hereby certify that this specifications package has been properly prepared by me, or under my responsible charge, in accordance with procedures adopted by the Florida Department of Transportation.

This item has been digitally signed and sealed by David B. Hubbard, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Date: September 2, 2020
State of Florida,
Professional Engineer, License No.: 79353
Firm Name: HNTB Corporation
Firm Address: 201 N. Franklin Street, Ste. 1200
City, State, Zip Code: Tampa, FL 33602
Certificate of Authorization Number: 6500
Page(s): 1 - 35



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SPECIAL PROVISIONS

The following special provisions have been prepared on behalf of the Tampa Hillsborough Expressway Authority, hereinafter referred to as the "Authority".

DEFINITIONS AND TERMS

ARTICLE 1-3 is deleted and the following substituted:

Advertisement.

The public announcement, as required by law, inviting bids for work to be performed or materials to be furnished, usually issued as "Invitation to Bid", "Notice to Contractors," or "Notice to Bidders."

Article.

The numbered prime subdivision of a Section of these Specifications.

Authority.

The Tampa-Hillsborough County Expressway Authority, a public agency of the state created and established by the Florida Legislature pursuant to Section 348.52(1), Florida Statutes.

Bidder.

An individual, firm, or corporation submitting a proposal for the proposed work.

Bridge.

A structure, including supports, erected over a depression or over an obstruction such as water, highway or railway, or for elevated roadway, for carrying traffic or other moving loads, and having a length, measured along the center of the roadway, of more than 20 feet between the inside faces of end supports. A multiple-span box culvert is considered a bridge, where the length between the extreme ends of the openings exceeds 20 feet.

Calendar day.

Every day shown on the calendar, ending and beginning at midnight.

Contract.

The term "Contract" means the entire and integrated agreement between the parties thereunder and supersedes all prior negotiations, representations, or agreements, either written or oral. The Contract Documents form the Contract between the Authority and the Contractor setting forth the obligations of the parties thereunder, including, but not limited to, the performance of the Work and the basis of payment.

Contract Bond.

The security furnished by the Contractor and the surety as a guaranty that the Contractor shall fulfill the terms of the Contract and pay all legal debts pertaining to the construction of the project.

Contract Claim (Claim).

A written demand submitted to the Authority by the Contractor in compliance with 5-12.3 seeking additional monetary compensation, time, or other adjustments to the Contract, the entitlement or impact of which is disputed by the Authority.

Contract Documents.

The term “Contract Documents” includes: Advertisement for Proposal, Proposal, Certification as to Publication and Notice of Advertisement for Proposal, Appointment of Agent by Nonresident Contractors, Noncollusion Affidavit, Warranty Concerning Solicitation of the Contract by Others, Resolution of Award of Contract, Executed Form of Contract, Performance Bond and Payment Bond, Specifications, Plans (including revisions thereto issued during construction), Standard Plans, Addenda, or other information mailed or otherwise transmitted to the prospective bidders prior to the receipt of bids, work orders and supplemental agreements, all of which are to be treated as one instrument whether or not set forth at length in the form of contract.

Note: As used in Sections 2 and 3 only, Contract Documents do not include work orders, and supplementary agreements. As used in Section 2 only, Contract Documents also do not include Resolution of Award of Contract, Executed Form of Contract, and Performance and Payment Bond.

Contract Letting.

The date that the Authority opened the bid proposals.

Contract Time.

The number of calendar days allowed for completion of the Contract work, including authorized time extensions.

Contractor.

The individual, firm, joint venture, or company contracting with the Authority to perform the work.

Contractor’s Engineer of Record.

A Professional Engineer registered in the State of Florida, other than the Engineer of Record or his subcontracted consultant, who undertakes the design and drawing of components of the permanent structure as part of a redesign or Cost Savings Initiative Proposal, or for repair designs and details of the permanent work. The Contractor’s Engineer of Record may also serve as the Specialty Engineer.

The Contractor’s Engineer of Record must be an employee of a pre-qualified firm. The firm shall be pre-qualified in accordance with the Rules of the Department of Transportation, Chapter 14-75. Any Corporation or Partnership offering engineering services must hold a Certificate of Authorization from the Florida Department of Business and Professional Regulation.

As an alternate to being an employee of a pre-qualified firm, the Contractor’s Engineer of Record may be an Authority-approved Specialty Engineer. For items of the permanent work declared by the Authority to be “major” or “structural”, the work performed by an Authority-approved Specialty Engineer must be checked by another Authority-approved Specialty Engineer. An individual Engineer may become an Authority-approved Specialty Engineer if the individual meets the Professional Engineer experience requirements set forth within the individual work groups in Chapter 14-75, Rules of the Department of Transportation, Florida Administrative Code. Authority-approved Specialty Engineers will not be authorized to perform redesigns or Cost Savings Initiative Proposal designs of items fully detailed in the Plans.

Controlling Work Items.

The activity or work item on the critical path having the least amount of total float. The controlling item of work will also be referred to as a Critical Activity.

Culverts.

Any structure not classified as a bridge that provides an opening under the roadway.

Delay.

Any unanticipated event, action, force or factor which extends the Contractor's time of performance of any controlling work item under the Contract. The term "delay" is intended to cover all such events, actions, forces or factors, whether styled "delay", "disruption", "interference", "impedance", "hindrance", or otherwise, which are beyond the control of and not caused by the Contractor, or the Contractor's subcontractors, materialmen, suppliers or other agents. This term does not include "extra work".

Department.

State of Florida Department of Transportation.

Developmental Specification.

See definition for Specifications.

Engineer.

The Director of Operations and Engineering, acting directly or through duly authorized representatives; such representatives acting within the scope of the duties and authority assigned to them.

Note: In order to avoid cumbersome and confusing repetition of expressions in these Specifications, it is provided that whenever anything is, or is to be done, if, as, or, when, or where "acceptable, accepted, approval, approved, authorized, condemned, considered necessary, contemplated, deemed necessary, designated, determined, directed, disapproved, established, given, indicated, insufficient, ordered, permitted, rejected, required, reserved, satisfactory, specified, sufficient, suitable, suspended, unacceptable, or unsatisfactory," it shall be understood as if the expression were followed by the words "by the Engineer," "to the Engineer," or "of the Engineer."

Engineer of Record.

The Professional Engineer or Engineering Firm registered in the State of Florida that develops the criteria and concept for the project, performs the analysis, and is responsible for the preparation of the Plans and Specifications. The Engineer of Record may be Authority staff or a consultant retained by the Authority.

The Contractor shall not employ the Engineer of Record as the Contractor's Engineer of Record or as a Specialty Engineer.

Equipment.

The machinery and equipment, together with the necessary supplies for upkeep and maintenance thereof, and all other tools and apparatus necessary for the construction and acceptable completion of the work.

Extra Work.

Any “work” which is required by the Engineer to be performed and which is not otherwise covered or included in the project by the existing Contract Documents, whether it be in the nature of additional work, altered work, deleted work, work due to differing site conditions, or otherwise. This term does not include a “delay”.

Federal, State, and Local Rules and Regulations.

The term “Federal, State and Local Rules and Regulations” includes: any and all Federal, State, and Local laws, bylaws, ordinances, rules, regulations, orders, permits, or decrees including environmental laws, rules, regulations, and permits.

Highway, Street, or Road.

A general term denoting a public way for purposes of vehicular travel, including the entire area within the right-of-way.

Holidays.

Days designated by the State Legislature or Cabinet as holidays, which include, but are not limited to, New Year’s Day, Martin Luther King’s Birthday, Memorial Day, Independence Day, Labor Day, Veterans’ Day, Thanksgiving Day and the following Friday, and Christmas Day.

Inspector.

An authorized representative of the Engineer, assigned to make official inspections of the materials furnished and of the work performed by the Contractor.

Laboratory.

The official testing laboratory used by the Authority.

Major Item of Work.

Any item of work having an original Contract value in excess of 5% of the original Contract amount.

Materials.

Any substances to be incorporated in the work under the Contract.

Median.

The portion of a divided highway or street separating the traveled ways for traffic moving in opposite directions.

Plans.

The approved Plans, including reproductions thereof, showing the location, character, dimensions, and details of the work.

Proposal (Bid, Bid Proposal).

The offer of a bidder, on the prescribed form, to perform the work and to furnish the labor and materials at the prices quoted.

Proposal Form.

The official form or the electronically generated bid item sheets on which the Authority

requires formal bids to be prepared and submitted for the work.

Proposal Guaranty

The security furnished by the bidder as guaranty that the bidder will enter into the Contract for the work if the Authority accepts the proposal.

Right-of-Way.

The land that the Authority has title to, or right of use, for the road and its structures and appurtenances, and for material pits furnished by the Authority.

Roadbed.

The portion of the roadway occupied by the subgrade and shoulders.

Roadway.

The portion of a highway within the limits of construction.

Section.

A numbered prime division of these Specifications.

Special Event.

Any event, including but not limited to, a festival, fair, run or race, motorcade, parade, civic activity, cultural activity, charity or fund drive, sporting event, or similar activity designated in the Contract Documents.

Special Provisions.

See definition for Specifications.

Specialty Engineer.

A Professional Engineer registered in the State of Florida, other than the Engineer of Record or his subcontracted consultant, who undertakes the design and drawing preparation of components, systems, or installation methods and equipment for specific temporary portions of the project work or for special items of the permanent works not fully detailed in the Plans and required to be furnished by the Contractor. The Specialty Engineer may also provide designs and details, repair designs and details, or perform Engineering Analyses for items of the permanent work declared by the Authority to be “minor” or “non-structural”.

For items of work not specifically covered by the Rules of the Department of Transportation, a Specialty Engineer is qualified if he has the following qualifications:

1. Registration as a Professional Engineer in the State of Florida.
2. The education and experience necessary to perform the submitted design as required by the Florida Department of Business and Professional Regulation.

Specifications.

The directions, provisions, and requirements contained herein, together with all stipulations contained in the Contract Documents, setting out or relating to the method and manner of performing the work, or to the quantities and qualities of materials and labor to be furnished under the Contract.

Standard Specifications: “Standard Specifications for Road and Bridge Construction” an

electronic book, applicable to all Authority Contracts containing adopted requirements, setting out or relating to the method or manner of performing work, or to the quantities and qualities of materials and labor.

Supplemental Specifications: Approved additions and revisions to the Standard Specifications, applicable to all Authority Contracts.

Special Provisions: Specific clauses adopted by the Authority that add to or revise the Standard Specifications or supplemental specifications, setting forth conditions varying from or additional to the Standard Specifications applicable to a specific project.

Technical Special Provisions: Specifications, of a technical nature, prepared, signed, and sealed by an Engineer registered in the State of Florida other than the State Specifications Engineer or his designee, that are made part of the Contract as an attachment to the Contract Documents.

Developmental Specification: A specification developed around a new process, procedure, or material.

Standard Plans.

“Standard Plans for Road and Bridge Construction”, an electronic book describing and detailing aspects of the Work. Where the term Design Standards appears in the Contract Documents, it will be synonymous with Standard Plans.

Standard Specifications.

See definition for Specifications.

State.

State of Florida.

Subarticle.

A headed and numbered subdivision of an Article of a Section of these Specifications.

Subgrade.

The portion of the roadbed immediately below the base course or pavement, including below the curb and gutter, valley gutter, shoulder and driveway pavement. The subgrade limits ordinarily include those portions of the roadbed shown in the Plans to be constructed to a design bearing value or to be otherwise specially treated. Where no limits are shown in the Plans, the subgrade section extends to a depth of 12 inches below the bottom of the base or pavement and outward to 6 inches beyond the base, pavement, or curb and gutter.

Substructure.

All of that part of a bridge structure below the bridge seats, including the parapets, backwalls, and wingwalls of abutments.

Superintendent.

The Contractor’s authorized representative in responsible charge of the work.

Superstructure.

The entire bridge structure above the substructure, including anchorage and anchor bolts, but excluding the parapets, backwalls, and wingwalls of abutments.

Supplemental Agreement.

A written agreement between the Contractor and the Authority, and signed by the surety, modifying the Contract within the limitations set forth in these Specifications.

Supplemental Specifications.

See definition for Specifications.

Surety.

The corporate body that is bound by the Contract Bond with and for the Contractor and responsible for the performance of the Contract and for payment of all legal debts pertaining thereto.

Technical Special Provisions.

See definition for Specifications.

Traveled Way.

The portion of the roadway for the movement of vehicles, exclusive of shoulders and bicycle lanes.

Unilateral Payment.

A payment of money made to the Contractor by the Authority pursuant to Section 337.11(12), Florida Statutes (2009), for sums the Authority determines to be due to the Contractor for work performed on the project, and whereby the Contractor by acceptance of such payment does not waive any rights the Contractor may otherwise have against the Authority for payment of any additional sums the Contractor claims are due for the work.

Work.

All labor, materials and incidentals required to execute and complete the requirements of the Contract including superintendence, use of equipment and tools, and all services and responsibilities prescribed or implied.

Work Order.

A written agreement between the Contractor and the Authority modifying the Contract within the limitations set forth in these Specifications. Funds for this agreement are drawn against the Initial Contingency Pay Item or a Contingency Supplemental Agreement.

Working Day.

Any calendar day on which the Contractor works or is expected to work in accordance with the approved work progress schedule.

PROPOSAL REQUIREMENTS AND CONDITIONS - EXAMINATION OF PLANS, SPECIFICATIONS, SPECIAL PROVISIONS, AND SITE OF WORK.

(REV 11-3-15) (FA 1-27-16) (7-20)

ARTICLE 2-4 is deleted and the following substituted:

2-4 Examination of Plans, Specifications, Special Provisions, and Site of Work.

Examine the Contract Documents and the site of the proposed work carefully before submitting a Proposal for the work contemplated. Investigate the conditions to be encountered, as to the character, quality, and quantities of work to be performed and materials to be furnished and as to the requirements of all Contract Documents.

Direct all questions to the Authority by posting the question to Man Le at man.le@tampaxway.com. Questions posted to Man Le before 5:00 P.M. (EST) on the seventh calendar day prior to the bid opening, or tenth calendar day prior to the December bid opening, will be responded to by the Authority. For questions posted after these times, an answer cannot be assured. For all questions posted before the deadline, the Authority will provide and post responses at the same website before 8:00 A.M. (EST) on the second calendar day prior to bid opening. Take responsibility to review and be familiar with all questions and responses posted to this website and to make any necessary adjustments in the proposal accordingly.

When, in the sole judgment of the Authority, responses to questions require Plan revisions, Specification revisions and/or addenda, the Contracts Office will issue them as necessary.

The Authority does not guarantee the details pertaining to borings, as shown in the Plans, to be more than a general indication of the materials likely to be found adjacent to holes bored at the site of the work, approximately at the locations indicated. The Bidder shall examine boring data, where available, and make their own interpretation of the subsoil investigations and other preliminary data, and shall base their bid solely on their own opinion of the conditions likely to be encountered.

The Bidder's submission of a Proposal is prima facie evidence that the Bidder has made an examination as described in this Article.

AWARD AND EXECUTION OF CONTRACT – CONSIDERATION OF BIDS (LUMP SUM).

(REV 8-1-00) (1-20)

ARTICLE 3-1. The first paragraph is deleted and the following substituted:

For the purpose of award, after opening and reading the Proposals, the Authority will consider the total Contract Lump Sum Price as the bid. On this basis, the Authority will compare the amounts of each bid and make the results of such comparison available to the public. Until the actual award of the Contract, however, the Authority reserves the right to reject any or all Proposals and to waive technical errors that the Authority determines, in its sole discretion, to be in the best interest of the State. In the event of any discrepancy in the two entries of the Contract Lump Sum Price, the Authority will evaluate the bid based on the lump sum price shown in words.

**AWARD AND EXECUTION OF CONTRACT – PUBLIC RECORDS.
(REV 10-17-16) (FA 10-24-16) (7-20)**

ARTICLE 3-9 is expanded by the following:

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

**Man Le
Procurement Manager
(813) 272-6740, Ext. 135
man.le@tampa-xway.com
Tampa Hillsborough Expressway Authority
1104 E. Twiggs Street, Suite 300
Tampa, FL 33602**

**SCOPE OF THE WORK (LUMP SUM).
(REV 6-3-16) (FA 6-9-16) (7-20)**

ARTICLE 4-1 is expanded by:

4-1 Intent and Scope.

The Improvements under this Contract consist of removing and replacing the departure slab for Bridge #100309 (Selmon Expressway Eastbound over Himes Avenue) and restoration of the bridge decks and approach/departure slabs for Bridge #100308 and #100309 (Selmon Expressway Westbound/Eastbound over Himes Avenue) in Hillsborough County.

This is a Lump Sum Contract with only one pay item listed in the Contract.

All references to payment under individual pay item numbers, regardless of where those references are contained in the Contract Documents or when in time any such pay item reference is incorporated in the Contract Documents, are superseded by the pay item references in this Special Provision.

Payment for all work in this Contract will be made under:

Item No. 999-2 Lump Sum Contract - LS

Pay adjustments as shown in the Contract Documents, regardless of where those pay adjustments are referenced, shall not apply, except as provided for in 9-2 Scope of Payments.

SUBARTICLE 4-3.1 is deleted and the following substituted:

4-3.1 General: The Engineer reserves the right to make, at any time prior to or during the

progress of the work, alterations or changes, whether a significant change or not, and such alterations in the details of construction, whether a substantial change or not, including but not limited to alterations in the grade or alignment of the road or structure or both, as may be found necessary or desirable by the Engineer. Such alterations or changes shall not constitute a breach of Contract, shall not invalidate the Contract, nor release the Surety from any liability arising out of this Contract or the Surety bond. The Contractor agrees to perform the work, as altered or changed, the same as if it had been a part of the original Contract.

The term “significant change” applies only when the Engineer determines that the character of the work as altered differs materially in kind or nature from that involved or included in the original proposed construction. The allowance due to the Contractor will be in accordance with 4-3.2, below.

In the instance of an alleged “significant change”, the determination by the Engineer shall be conclusive and shall not be subject to challenge by the Contractor in any forum, except upon the Contractor establishing by clear and convincing proof that the determination by the Engineer was without any reasonable and good-faith basis.

SUBARTICLE 4-3.4 is deleted and the following substituted:

4-3.4 Conditions Requiring a Supplemental Agreement or Unilateral Payment: A Supplemental Agreement or Unilateral Payment will be used to clarify the Plans and Specifications of the Contract; to provide for Unforeseen Work, grade changes, or alterations in Plans which could not reasonably have been contemplated or foreseen in the Original Plans and Specifications; to change the limits of construction to meet field conditions; to provide a safe and functional connection to an existing pavement; to settle documented Contract claims; to make the project functionally operational in accordance with the intent of the original Contract and subsequent amendments thereto.

SUBARTICLE 4-3.9.4 is deleted and the following substituted:

4-3.9.4 Processing Procedures: Submit Proposals to the Engineer or his duly authorized representative. The Authority will process Proposals expeditiously; however, the Authority is not liable for any delay in acting upon a Proposal submitted pursuant to this Subarticle. The Contractor may withdraw, in whole or in part, a Proposal not accepted by the Authority within the period specified in the Proposal. The Authority is not liable for any Proposal development cost in the case where the Authority rejects or the Contractor withdraws a Proposal.

The Engineer is the sole judge of the acceptability of a Proposal and of the estimated net savings in construction costs from the adoption of all or any part of such Proposal.

Prior to approval, the Engineer may modify a Proposal, with the concurrence of the Contractor, to make it acceptable. If any modification increases or decreases the net savings resulting from the Proposal, the Authority will determine the Contractor’s fair share upon the basis of the Proposal as modified. The Authority will compute the net savings by subtracting the revised total cost affected by the Proposal from the total cost as represented in the original Contract.

Prior to approval of the Proposal that initiates the supplemental agreement, submit acceptable Contract-quality plan sheets revised to show all details consistent with the Proposal design.

CONTROL OF THE WORK (LUMP SUM).
(REV 3-15-02) (7-20)

SUBARTICLE 5-1.1 is expanded by the following:

All reference to separate payment for individual items of work will not apply. The cost for various items of work will be included and paid for under the Contract Lump Sum Price.

ARTICLE 5-2. The first paragraph is deleted and the following substituted:

These Specifications, the Plans, Special Provisions, and all supplementary documents are integral parts of the Contract; a requirement occurring in one is as binding as though occurring in all. In addition to the work and materials specifically called for in the Contract Documents and any additional incidental work, not specifically mentioned, when so shown in the Plans, or if indicated, or obvious and apparent, as being necessary for the proper completion of the work will be included in the Contract Lump Sum Price.

SUBARTICLE 5-7.6 is deleted.

CONTROL OF MATERIALS – ACCEPTANCE CRITERIA (LUMP SUM).
(REV 8-17-09) (FA 8-24-09) (7-20)

ARTICLE 6-1 is expanded by the following new Subarticles:

6-1.3.3 Lump Sum Project General Requirements: Material is accepted by material sampling and testing requirements for the following work activities: earthwork and related operations, base courses, hot bituminous mixtures, portland cement concrete, and reinforcing steel as stated in 105-2. Fabricated metal acceptance will be in accordance with 105-1.2.3. All other material acceptance will be in accordance with 6-1.

6-1.3.4 Certification on Approved Product List (APL) Products: Submit to the Engineer a notarized manufacturer's certification on each APL product that will be incorporated in the project. Submit the certification prior to utilization of the material on the project. Each certification will have the manufacturer letterhead, product name, batch number, FPID, Contract Number, category, county, title of certification person and test results in each product listed in the Department Specification. This letter will also provide the following statement: "This product meets the material specifications as provided in the Contract Documents." Ensure that the date of the manufacturer's certification is current to the shelf life of the product. This letter will be delivered to the jobsite prior to placement or utilization. Retain test results for a minimum of three years.

6-1.3.5 Certification on all Other Materials Not Specified: Submit to the Engineer a notarized manufacturer's certification on each product that will be incorporated in the project. Submit the certification prior to utilization on the project. Each certification will have the manufacturer letterhead, identification and type of material, FPID, Contract Number, county, test results of the material and notarized signature from the manufacturer. This letter will also

provide the following statement: “This product meets the material specifications as provided in the Contract Documents.” Ensure that the date of the manufacturer’s certification is current to the shelf life of the product. Retain test results for a minimum of three years.

**LEGAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC –
PRESERVATION OF EXISTING PROPERTY – UTILITIES - UTILITY
ADJUSTMENTS (NO UTILITY WORK SCHEDULE).**

(REV 2-10-94) (7-20)

SUBARTICLE 7-11.5.3 is expanded by the following:

For this project, no utility work involving facilities owned by other agencies is anticipated.

**LEGAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC - EQUAL
EMPLOYMENT OPPORTUNITY REQUIREMENTS.**

(REV 4-25-02) (FA 7-17-02) (7-20)

SECTION 7 is expanded by the following:

7-27 Equal Employment Opportunity Requirements.

7-27.1 Equal Employment Opportunity Policy: Accept as the operating policy, the following statement which is designed to further the provision of equal employment opportunity to all persons without regard to their age, race, color, religion, national origin, sex, or disability and to promote the full realization of equal employment opportunity through a positive continuing program:

“It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their age, race, religion, color, national origin, sex, or disability. Such action must include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, preapprenticeship, and/or on-the-job training.”

7-27.2 Equal Employment Opportunity Officer: Designate and make known to the Authority’s contracting officers an equal employment opportunity officer (hereinafter referred to as the EEO Officer) who must be capable of effectively administering and promoting an active Contractor program employment opportunity and who must be assigned adequate authority and responsibility to do so.

7-27.3 Dissemination of Policy: All members of the Contractor’s staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the Contractor’s equal employment opportunity policy and contractual responsibilities.

7-27.4 Recruitment: When advertising for employees, include in all advertisements for employees the notation “An Equal Opportunity Employer”.

7-27.5 Personnel Actions: Establish and administer wages, working conditions, employee benefits, and personnel actions of every type, including hiring, upgrading, promotion,

transfer, demotion, layoff, and termination without regard to age, race, color, religion, national origin, sex, or disability.

Follow the following procedures:

1. Conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

2. Periodically evaluate the spread of wages paid with each classification to determine any evidence of discriminatory wage practices.

3. Periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action must include all affected persons.

4. Investigate all complaints of alleged discrimination made in connection with obligations under this Contract, attempt to resolve such complaints, and take appropriate corrective action. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action must include such other persons. Upon completion of each investigation inform every complainant of all of the avenues of appeal.

7-27.6 Subcontracting: Use the best efforts to ensure subcontractor compliance with their equal employment opportunity policy.

7-27.7 Records and Reports: Keep such records as are necessary to determine compliance with the equal employment opportunity obligations. The records kept will be designed to indicate the following:

1. The number of minority and nonminority group members employed in each work classification on the project.

2. The progress and efforts being made in cooperation with unions to increase minority group employment opportunities (applicable only to Contractors who rely in whole or in part on unions as a source of their work force).

3. The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority group employees as deemed appropriate to comply with their Equal Employment Opportunity Policy.

4. The progress and efforts being made in securing the services of minority group subcontractors or subcontractors with meaningful minority group representation among their employees as deemed appropriate to comply with their Equal Employment Opportunity Policy.

All such records must be retained for a period of three years following completion of the contract work and be available at reasonable times and places for inspection by authorized representatives to the Authority and the Federal Highway Administration.

Upon request, submit to the Authority a report of the number of minority and nonminority group employees currently engaged in each work classification required by the Contract work.

LEGAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC - TRUCK HAUL ROUTES.

(REV 04-06-00) (7-20)

SECTION 7 is expanded by the following new Article:

7-28 Truck Haul Routes.

Citrus, Hernando, Hillsborough, Pasco, and Pinellas Counties located within District Seven have established Truck Haul Route Ordinances restricting the use of certain roadways for hauling materials, equipment and supplies. Conform to these ordinances.

All state roadways are exempt from these ordinances and may be used for Truck Haul Routes.

**LEGAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC –
PREFERENCE TO STATE RESIDENTS.****(REV 1-13-12) (7-20)**

SECTION 7 is expanded by the following new Article:

7-29 Preference to State Residents.

Florida Statutes 255.099 (Chapter 2010-147, Section 50, Laws of Florida), providing for preference to residents of the State of Florida, is hereby made a part of this Contract:

Each contract that is funded by state funds must contain a provision requiring the Contractor to give preference to the employment of state residents in the performance of the work on the project if state residents have substantially equal qualifications to those of nonresidents.

As used in this Section, the term “substantially equal qualifications” means the qualification of two or more persons among whom the employer cannot make a reasonable determination that the qualifications held by one person are better suited for the position than the qualifications held by the other person or persons.

LEGAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC – E-VERIFY.**(REV 6-13-11) (FA 6-16-11) (7-20)**

SECTION 7 is expanded by the following new Article:

7-30 E-Verify.

The Contractor shall utilize the U.S. Department of Homeland Security’s E-Verify system to verify the employment eligibility of all new employees hired by the Contractor during the term of the Contract and shall expressly require any subcontractors performing work or providing services pursuant to the Contract to likewise utilize the U.S. Department of Homeland Security’s E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the Contract term.

**LEGAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC –
SCRUTINIZED COMPANIES.****(REV 3-22-18) (7-20)**

SECTION 7 is expanded by the following new Article:

7-31 Scrutinized Companies.

For Contracts of any amount, if the Authority determines the Contractor submitted a false certification under Section 287.135(5) of the Florida Statutes, or if the Contractor has been placed on the Scrutinized Companies that Boycott Israel List, or is engaged in a boycott of Israel, the Authority shall either terminate the Contract after it has given the Contractor notice and an opportunity to demonstrate the Authority's determination of false certification was in error pursuant to Section 287.135(5)(a) of the Florida Statutes, or maintain the Contract if the conditions of Section 287.135(4) of the Florida Statutes are met.

For Contracts \$1,000,000 and greater, if the Authority determines the Contractor submitted a false certification under Section 287.135(5) of the Florida Statutes, or if the Contractor has been placed on the Scrutinized Companies with Activities in the Sudan List, or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, the Authority shall either terminate the Contract after it has given the Contractor notice and an opportunity to demonstrate the Authority's determination of false certification was in error pursuant to Section 287.135(5)(a) of the Florida Statutes, or maintain the Contract if the conditions of Section 287.135(4) of the Florida Statutes are met.

PROSECUTION AND PROGRESS – COMPUTATION OF CONTRACT TIME – ADJUSTING CONTRACT TIME – INCREASED WORK (LUMP SUM).

(REV 8-1-00) (7-20)

SUBARTICLE 8-4.1. The fifth paragraph is deleted.

SUBARTICLE 8-7.3.1 is deleted and the following substituted:

8-7.3.1 Increased Work: The Authority may grant an extension of Contract Time when it increases the Contract amount due to adding new work or providing for unforeseen work. The Authority will base the consideration for granting an extension of Contract Time on the extent that the time normally required to complete the additional designated work delays the Contract completion schedule.

PROSECUTION AND PROGRESS - LIMITATIONS OF OPERATIONS – FENCING.

(REV 6-17-04) (FA 7-13-04) (7-20)

SUBARTICLE 8-4.8 is deleted and the following substituted:

8-4.8 Fencing: Erect permanent fence as a first order of business on all projects that include fencing where the Engineer determines that the fencing is necessary to maintain the security of livestock and other animals on adjacent property, or for protection of pedestrians who are likely to gain access to the project from adjacent property. Secure the right of way on Limited Access Facilities at all times by a fence, either temporary or permanent, that meets the height of the existing fence or the height required in the Contract.

PROSECUTION AND PROGRESS – LIQUIDATED DAMAGES FOR FAILURE TO

COMPLETE THE WORK.

(REV 5-2-17) (FA 6-20-17) (7-20)

SUBARTICLE 8-10.1 and 8-10.2 are deleted and the following substituted:

8-10 Liquidated Damages for Failure to Complete the Work.

8-10.1 Highway Code Requirements Pertaining to Liquidated Damages:

Section 337.18, paragraph (2) of the Florida Statutes, requires that the Authority adopt regulations for the determination of default and provides that the Contractor pay liquidated damages to the Authority for any failure of the Contractor to complete the Contract work within the Contract Time. These Code requirements govern, and are herewith made a part of the Contract.

Liquidated damages for this Contract will be a summation of the damages referenced above and projected lost toll revenues due to failure to timely open the project to revenue-producing traffic.

8-10.2 Amount of Liquidated Damages: Applicable liquidated damages are the sum of the daily rate of \$ 2,500.00 per Calendar Day for ramps and \$75,000 per Calendar Day for the mainline SR 618 assessed as projected lost toll revenues for failure to complete the Work within the Contract Time plus the amounts established in the following schedule:

Original Contract Amount	Daily Charge Per Calendar Day
\$50,000 and under.....	\$956
Over \$50,000 but less than \$250,000.....	\$964
\$250,000 but less than \$500,000.....	\$1,241
\$500,000 but less than \$2,500,000.....	\$1,665
\$2,500,000 but less than \$5,000,000.....	\$2,712
\$5,000,000 but less than \$10,000,000.....	\$3,447
\$10,000,000 but less than \$15,000,000.....	\$4,866
\$15,000,000 but less than \$20,000,000.....	\$5,818
\$20,000,000 and over.....	\$9,198 plus 0.00005 of any amount over \$20 million (Round to nearest whole dollar)

MEASUREMENT AND PAYMENT (LUMP SUM).

(REV 7-10-19) (FA 7-22-19) (7-20)

SUBARTICLE 9-1.3 is deleted and the following substituted:

9-1.3 Determination of Pay Reduction: In measurement of areas of work, where pay reductions are to be assessed, the Engineer will use the lengths and/or widths in the calculations based upon station to station dimensions in the Contract Documents, the station to station dimensions actually constructed within the limits designated by the Engineer; or the final dimensions measured along the final surface of the completed work within the neat lines shown in the Contract Documents or designated by the Engineer. The Engineer will use the method or combination of methods of measurement which will reflect with reasonable accuracy, the actual surface area of the finished work as the Engineer determines.

Failure on the part of the Contractor to construct any item of work to plan or

authorized dimensions within the Specification tolerances will result in: reconstruction to acceptable tolerances at no additional cost to the Authority; acceptance at no pay; or, acceptance at reduced pay, all at the discretion of the Engineer.

When acceptance at no pay occurs for any material not listed in 9-2, the Engineer will apply a reduction in payment for the material in question based on the weighted average unit price in the Six Month Moving Statewide Averages report. The dates will be the six months prior to the letting date for this Contract.

ARTICLE 9-2 is deleted and the following substituted:

9-2 Scope of Payments.

9-2.1 Items Included in Payment: Accept the compensation as provided in the Contract Documents as full payment for furnishing all materials and for performing all work contemplated and embraced under the Contract; also for all loss or damage arising out of the nature of the work or from the action of the elements, or from any unforeseen difficulties or obstructions which may arise or be encountered in the prosecution of the work until its final acceptance; also for all other costs incurred under the provisions of Division I.

The Contract Lump Sum Price will include overhead, profits, and direct and indirect costs required to complete the project except as described below.

9-2.1.1 Fuels: On Contracts with an original Contract Time in excess of 120 calendar days, the Authority will make price adjustments on each applicable progress estimate to reflect increases or decreases in the price of gasoline and diesel from those in effect during the month in which bids were received. The Contractor will not be given the option of accepting or rejecting these adjustments. Price adjustments for these fuels will be made only when the current fuel price (CFP) varies by more than 5% from the price prevailing in the month when bids were received (BFP), and then only on the portion that exceeds 5%.

The Contractor will certify the number of gallons of fuel (gasoline and/or diesel) used on this Contract during the period represented by each Contractor's Certified Monthly Estimate.

Price adjustments will be based on the monthly bulk average price for gas and diesel as derived by the Authority. These average indexes shall be determined by averaging bulk fuel prices on the first day of each month as quoted by major oil companies that are reasonably expected to furnish fuel for projects in the State of Florida. Average price indices for gasoline and diesel will be available on the State Construction Office website before the 15th of each month at the following URL:

<https://www.fdot.gov/construction/fuel-Bit/Fuel-Bit.shtm>.

Payment on progress estimates will be adjusted to reflect adjustments in the prices for fuel in accordance with the following:

When fuel prices have decreased between month of bid and month of this progress estimate:

$A_i = F_i (P_i - 0.95 P_b)$ during a period of decreasing prices.

A_i = Total dollar amount - positive or negative - of the cost adjustment for each kind of fuel used by the Contractor during the month "i."

F_i = Total gallons calculated as being used during the month.

P_i = Average price for fuel prevailing during month "i."

P_b = Average price for fuel prevailing during the month "b" when bids were received on this Contract.

When fuel prices have increased between month of bid and month of this progress estimate:

$A_i = F_i (P_i - 1.05 P_b)$ during a period of increasing prices.

A_i = Total dollar amount - positive or negative - of the cost adjustment for each kind of fuel used by the Contractor during the month "i."

F_i = Total gallons calculated as being used during the month.

P_i = Average price for fuel prevailing during month "i."

P_b = Average price for fuel prevailing during the month "b" when bids were received on this Contract.

Gallons will be derived only from the established Standard Fuel Factor list posted on the State Construction Office website at the following URL:

<https://www.fdot.gov/construction/fuel-Bit/Fuel-Bit.shtm>.

The Authority will provide a computer application that will calculate and print the gallons of gasoline and/or diesel for the items that these factors represent. The Contractor will attach this worksheet and record these gallons on the Contractor's Certified Monthly Estimate as required in 9-11.3.

Payment will be based on the quantities shown on the Contractor's Certified Monthly Estimate on all items for which established standard fuel factors are posted on the State Construction Office website at the following URL:

<https://www.fdot.gov/construction/fuel-Bit/Fuel-Bit.shtm>.

Payment will be made on the current progress estimate to reflect the index difference at the time work was performed. The total price adjustment for the Contract is limited to the pay quantity as specified in 9-2.2.2.

Adjustments will be paid or charged to the Prime Contractor only. Any Contractor receiving an adjustment under this provision shall distribute the proper proportional part of such adjustment to subcontractors who perform applicable work.

9-2.1.2 Bituminous Material: Prepare a Contractor's Certification of Quantities, using the Authority's current approved form for Superpave Asphalt Base, Driveway Asphalt Base, Asphalt Treated Permeable Base, Superpave Asphaltic Concrete, Miscellaneous Asphalt Pavement, Asphalt Concrete Friction Course, and Asphalt Membrane Interlayer items. On Contracts having an original Contract Time of more than 365 calendar days, or more than 5,000 tons of asphalt concrete, the Authority will adjust the bid unit price for bituminous material, excluding cutback and emulsified asphalt to reflect increases or decreases in the Asphalt Price Index (API) of bituminous material from that in effect during the month in which bids were received. The Contractor will not be given the option of accepting or rejecting this adjustment. Bituminous adjustments will be made only when the current API (CAPI) varies by more than 5% of the API prevailing in the month when bids were received (BAPI), and then only on the portion that exceeds 5%.

The Authority will determine the API for each month by averaging quotations in effect on the first day of the month at all terminals that could reasonably be expected to furnish bituminous material to projects in the State of Florida.

The API will be available on the State Construction Office website before the 15th day of each month at the following URL:

<https://www.fdot.gov/construction/fuel-Bit/Fuel-Bit.shtm>.

The Authority will provide a computer application that will calculate and print the number of gallons of bituminous material for the items that these factors represent. The Contractor will attach this worksheet and record these gallons on the Contractor's Certified

Monthly Estimate as required in 9-11.3.

Payment on progress estimates will be adjusted to reflect adjustments in the prices for bituminous materials in accordance with the following:

$$\text{\$ Adjustment} = (\text{ID})(\text{gallons})$$

Where ID = Index Difference = $[\text{CAPI} - 0.95(\text{BAPI})]$ when the API has decreased between the month of bid and month of this progress estimate.

Where ID = Index Difference = $[\text{CAPI} - 1.05(\text{BAPI})]$ when the API has increased between the month of bid and month of this progress estimate.

For all asphalt concrete, the number of gallons will be determined assuming a mix design with 6.25% liquid asphalt weighing 8.58 pounds per gallon.

Payment will be made on the current progress estimate to reflect the index difference at the time work was performed. The total price adjustment for the Contract is limited to the pay quantity as specified in 9-2.2.2.

Adjustments will be paid or charged to the Prime Contractor only. Any Contractor receiving an adjustment under this provision shall distribute the proper proportional part of such adjustment to subcontractors who perform applicable work.

9-2.2 General Basis of Adjusted Pay:

9-2.2.1 Deficiencies: When a deficiency occurs that results in the acceptance of a material at a reduced payment level as defined in these Specifications, the Engineer will apply a reduction in payment for the material in question based on the unit prices shown in Table 9-1.

Table 9-1

Item Description	Unit	Unit Prices
Superpave Asphaltic Concrete (Traffic A)	TN	\$125.00
Superpave Asphaltic Concrete (Traffic B)	TN	\$110.00
Superpave Asphaltic Concrete (Traffic C)	TN	\$105.00
Superpave Asphaltic Concrete (Traffic D)	TN	\$100.00
Superpave Asphaltic Concrete (Traffic E)	TN	\$115.00
Superpave Asphaltic Concrete (Traffic B, PG 76-22)	TN	\$120.00
Superpave Asphaltic Concrete (Traffic C, PG 76-22)	TN	\$120.00
Superpave Asphaltic Concrete (Traffic D, PG 76-22)	TN	\$110.00
Superpave Asphaltic Concrete (Traffic E, PG 76-22)	TN	\$110.00
Superpave Asphaltic Concrete (Traffic B, High Polymer)	TN	\$105.00
Superpave Asphaltic Concrete (Traffic C, High Polymer)	TN	\$140.00
Superpave Asphaltic Concrete (Traffic D, High Polymer)	TN	\$130.00
Superpave Asphaltic Concrete (Traffic E, High Polymer)	TN	\$105.00
Asph. Conc. Friction Course (FC-5, PG 76-22)	TN	\$155.00
Asph. Conc. Friction Course (FC-5) (High Polymer)	TN	\$155.00
Asph. Conc. Friction Course (Traffic B, FC-9.5, PG 76-22)	TN	\$140.00
Asph. Conc. Friction Course (Traffic B, FC-12.5, PG 76-22)	TN	\$130.00
Asph. Conc. Friction Course (Traffic C, FC-9.5, PG 76-22)	TN	\$140.00
Asph. Conc. Friction Course (Traffic C, FC-12.5, PG 76-22)	TN	\$125.00
Asph. Conc. Friction Course (Traffic D, FC-12.5, PG 76-22)	TN	\$140.00
Optional Base (Base Group 1)	SY	\$20.00
Optional Base (Base Group 2)	SY	\$20.00
Optional Base (Base Group 3)	SY	\$20.00

Optional Base (Base Group 4)	SY	\$20.00
Optional Base (Base Group 5)	SY	\$20.00
Optional Base (Base Group 6)	SY	\$25.00
Optional Base (Base Group 7)	SY	\$20.00
Optional Base (Base Group 8)	SY	\$35.00
Optional Base (Base Group 9)	SY	\$25.00
Optional Base (Base Group 10)	SY	\$25.00
Optional Base (Base Group 11)	SY	\$30.00
Optional Base (Base Group 12)	SY	\$30.00
Optional Base (Base Group 13)	SY	\$50.00
Optional Base (Base Group 14)	SY	\$50.00
Optional Base (Base Group 15)	SY	\$60.00

9-2.2.2 Asphalt Pay Adjustments: Asphalt pay quantity adjustments apply to asphalt items listed in Sections 234, 334, 337 and 339.

For each item, the pay quantity will be based on the quantity placed on the project, limited to 105% of the adjusted quantity for the item. The adjusted quantity will be determined by dividing the sum of the quantities from the plan summary boxes (including any Engineer approved quantity revisions) by the design G_{mm} stated in 334-1.4 (design G_{sb} stated in 337-8.2 for FC-5), and multiplying by the tonnage-weighted average G_{mm} (tonnage-weighted average G_{sb} for FC-5) of the mixes used.

For each item, additions in pay will be made if the actual quantity placed exceeds the adjusted quantity. Additions in pay will be calculated by subtracting the adjusted quantity placed from the actual quantity placed, multiplied by the unit prices as determined by 9-2.3.1. The additional pay quantity shall not exceed 5% of the adjusted quantity.

For each item, reductions in pay will be made if the quantity placed is less than the adjusted quantity. Reduction in pay will be calculated by subtracting the adjusted quantity from the quantity placed, then multiplying by the unit prices as shown in Table 9-1.

9-2.2.3 Asphalt Overbuild: Where overbuild is called for in the Plans for the correction of cross-slope, the Engineer will make an adjustment in payment should the quantity of material placed be less than the adjusted quantity as calculated in 9-2.2.2. In addition, should the material placed exceed the adjusted quantity with no negative effect to the correction of cross-slope, an upward adjustment will be made representing the additional material placed. Adjustments in pay will be determined by subtracting the adjusted quantity from the quantity placed, then multiplying by the unit prices as shown in Table 9-2.

Table 9-2

Item Description	Unit	Unit Prices
Superpave Asphaltic Concrete (Traffic A)	TN	\$125.00
Superpave Asphaltic Concrete (Traffic B)	TN	\$110.00
Superpave Asphaltic Concrete (Traffic C)	TN	\$105.00
Superpave Asphaltic Concrete (Traffic D)	TN	\$100.00
Superpave Asphaltic Concrete (Traffic E)	TN	\$115.00
Superpave Asphaltic Concrete (Traffic B, PG 76-22)	TN	\$120.00
Superpave Asphaltic Concrete (Traffic C, PG 76-22)	TN	\$120.00
Superpave Asphaltic Concrete (Traffic D, PG 76-22)	TN	\$110.00
Superpave Asphaltic Concrete (Traffic E, PG 76-22)	TN	\$110.00

Superpave Asphaltic Concrete (Traffic B, High Polymer)	TN	\$105.00
Superpave Asphaltic Concrete (Traffic C, High Polymer)	TN	\$140.00
Superpave Asphaltic Concrete (Traffic D, High Polymer)	TN	\$130.00
Superpave Asphaltic Concrete (Traffic E, High Polymer)	TN	\$105.00
Asph. Conc. Friction Course (FC-5, (PG 76-22)	TN	\$155.00
Asph. Conc. Friction Course (FC-5) (High Polymer)	TN	\$155.00
Asph. Conc. Friction Course (Traffic B, FC-9.5, PG 76-22)	TN	\$140.00
Asph. Conc. Friction Course (Traffic B, FC-12.5, PG 76-22)	TN	\$130.00
Asph. Conc. Friction Course (Traffic C, FC-9.5, PG 76-22)	TN	\$140.00
Asph. Conc. Friction Course (Traffic C, FC-12.5, PG 76-22)	TN	\$125.00
Asph. Conc. Friction Course (Traffic D, FC-12.5, PG 76-22)	TN	\$140.00
Optional Base (Base Group 1)	SY	\$20.00
Optional Base (Base Group 2)	SY	\$20.00
Optional Base (Base Group 3)	SY	\$20.00
Optional Base (Base Group 4)	SY	\$20.00
Optional Base (Base Group 5)	SY	\$20.00
Optional Base (Base Group 6)	SY	\$25.00
Optional Base (Base Group 7)	SY	\$20.00
Optional Base (Base Group 8)	SY	\$35.00
Optional Base (Base Group 9)	SY	\$25.00
Optional Base (Base Group 10)	SY	\$25.00
Optional Base (Base Group 11)	SY	\$30.00
Optional Base (Base Group 12)	SY	\$30.00
Optional Base (Base Group 13)	SY	\$50.00
Optional Base (Base Group 14)	SY	\$50.00
Optional Base (Base Group 15)	SY	\$60.00

An average spread rate, per calculations as specified in 9-2.2, will be used to determine verification of the required amount of asphalt for the project.

9-2.2.4 Foundations: Adjustment in the lump sum payment will be made for actual quantities installed of piling and drilled shafts, as additions or deletions for the total project quantity determined from the pile/drilled shaft elevations shown in the Contract Documents.

The Engineer will base all adjustments in payment on the unit prices as shown in Table 9-3.

Table 9-3

Item Description	Unit	Unit Prices
Prestressed Concrete Piling 14" SQ	LF	\$150.00
Prestressed Concrete Piling 18" SQ	LF	\$115.00
Prestressed Concrete Piling 24" SQ	LF	\$110.00
Steel Piling, HP 14 x 102	LF	\$140.00
Steel Piling, HP 14 x 117	LF	\$190.00
Steel Piling, HP 24" Dia. Pipe	LF	\$205.00

Payment listed above for Piling and Drilled Shafts includes all work required to install the foundation element to the required capacity/depth.

9-2.2.5 Quality: Where an adjustment of payment for quality is called for in the Contract Documents, the Engineer will make such adjustments for the corresponding quantity of material based on the unit prices shown in Table 9-4, or the adjustment defined in Section 346, Developmental Specification Section 330, and Developmental Specification Section 350.

Table 9-4

Item Description	Unit	Unit Prices
Superpave Asphaltic Concrete (Traffic A)	TN	\$125.00
Superpave Asphaltic Concrete (Traffic B)	TN	\$110.00
Superpave Asphaltic Concrete (Traffic C)	TN	\$105.00
Superpave Asphaltic Concrete (Traffic D)	TN	\$100.00
Superpave Asphaltic Concrete (Traffic E)	TN	\$115.00
Superpave Asphaltic Concrete (Traffic B, PG 76-22)	TN	\$120.00
Superpave Asphaltic Concrete (Traffic C, PG 76-22)	TN	\$120.00
Superpave Asphaltic Concrete (Traffic D, PG 76-22)	TN	\$110.00
Superpave Asphaltic Concrete (Traffic E, PG 76-22)	TN	\$110.00
Superpave Asphaltic Concrete (Traffic B, High Polymer)	TN	\$105.00
Superpave Asphaltic Concrete (Traffic C, High Polymer)	TN	\$140.00
Superpave Asphaltic Concrete (Traffic D, High Polymer)	TN	\$130.00
Superpave Asphaltic Concrete (Traffic E, High Polymer)	TN	\$105.00
Asph. Conc. Friction Course (FC-5, PG 76-22)	TN	\$155.00
Asph. Conc. Friction Course (FC-5) (High Polymer)	TN	\$155.00
Asph. Conc. Friction Course (Traffic B, FC-9.5, PG 76-22)	TN	\$140.00
Asph. Conc. Friction Course (Traffic B, FC-12.5, PG 76-22)	TN	\$130.00
Asph. Conc. Friction Course (Traffic C, FC-9.5, PG 76-22)	TN	\$140.00
Asph. Conc. Friction Course (Traffic C, FC-12.5, PG 76-22)	TN	\$125.00
Asph. Conc. Friction Course (Traffic D, FC-12.5, PG 76-22)	TN	\$140.00
Optional Base (Base Group 1)	SY	\$20.00
Optional Base (Base Group 2)	SY	\$20.00
Optional Base (Base Group 3)	SY	\$20.00
Optional Base (Base Group 4)	SY	\$20.00
Optional Base (Base Group 5)	SY	\$20.00
Optional Base (Base Group 6)	SY	\$25.00
Optional Base (Base Group 7)	SY	\$20.00
Optional Base (Base Group 8)	SY	\$35.00
Optional Base (Base Group 9)	SY	\$25.00
Optional Base (Base Group 10)	SY	\$25.00
Optional Base (Base Group 11)	SY	\$30.00
Optional Base (Base Group 12)	SY	\$30.00
Optional Base (Base Group 13)	SY	\$50.00
Optional Base (Base Group 14)	SY	\$50.00
Optional Base (Base Group 15)	SY	\$60.00

9-2.2.6 Adjustment to the Lump Sum Payment for Deleted Items of Work:

When items of work are shown in the Contract Documents to be constructed or installed and due to actual field conditions; it is determined by the Engineer that the items are not needed, a

negative adjustment to the Contract will be made. The negative adjustment will be based on the actual cost of the items being deleted less all costs incurred prior to the date the Engineer determined the items are not needed and the Contractor will retain ownership. The negative adjustment will be processed in accordance with 4-3.2.

ARTICLE 9-3 is deleted.

SUBARTICLE 9-5.5.2 is deleted and the following substituted:

9-5.5.2 Partial Payment Amounts: The following partial payment restrictions apply:

1. Partial payments less than \$5,000 for any one month will not be processed.
2. Partial payment will not be made for aggregate and base course material received after paving or base construction operations begin except when a construction sequence designated by the Authority requires suspension of paving and base construction after the initial paving operations, partial payments will be reinstated until the paving and base construction resumes.

SECTION 9 is expanded by the following new Article:

9-11 Submittals.

9-11.1 Submittal Instructions: The Contractor will prepare a monthly estimate for each project in the Contract. Submit the Contractor's monthly estimate to the Engineer. The Engineer will not pay for any item of work until the Contractor's monthly estimate is approved.

9-11.2 Schedule of Values: Within 21 calendar days after contract award or at the preconstruction conference, whichever is earlier, prepare and submit a schedule of values to the Engineer for approval prior to invoicing. Assign the schedule of values to the scheduled work activities in the project schedule with the total being the lump sum contract amount.

The schedule of values will be the basis for determining monthly payments. Quantities will be compared with the project schedule to determine the percentage earned. The percentage shall be that portion of the work completed as compared to the total work contracted.

9-11.3 Contractor's Certified Monthly Estimate: The Contractor must make a request for payment by submitting a monthly estimate, no later than 12 O'clock noon, Monday, after the estimate cut-off date or as directed by the Engineer, based on the amount of work done or completed. The Contractor's Certified Monthly Estimate must consist of the following:

1. Contract Number, Financial Project Identification Number, Estimate Number, Monthly Estimate Date and the period that the monthly estimate represents.
2. The basis for arriving at the amount of the monthly estimate including approximate quantities of work completed, less payments previously made and less an amount previously retained or withheld.
3. Contract Summary showing the percentage of dollar value of completed work based on the present Contract amount and the percentage of days used based on the present Contract Days.
4. Certify the number of gallons of gasoline used during the monthly estimate period.
5. Certify the number of gallons of diesel used during the monthly estimate period.
6. Certify the number of gallons of bituminous material used during the

monthly estimate period.

7.Certify weight of steel for indexed items.

9-11.4 Payment to the Contractor: Upon receipt of the Contractor's monthly estimate and approval by the Engineer, payment will be made, less an amount retained or withheld per provisions included in the Contract. The monthly payments will be approximate only and will be subject to reduction for overpayments or increase for underpayments on preceding payments to the Contractor and to correction in the subsequent estimates and the final estimate and payment process.

MOBILIZATION (LUMP SUM).
(REV 12-13-18) (FA 1-23-19) (7-20)

SECTION 101 is deleted and the following substituted:

SECTION 101
MOBILIZATION

101-1 Description.

Perform preparatory work and operations in mobilizing for beginning work on the project, including, but not limited to, those operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project site and for the establishment of temporary offices, buildings, safety equipment and first aid supplies, and sanitary and other facilities.

Include the costs of bonds and any required insurance and any other preconstruction expense necessary for the start of the work, excluding the cost of construction materials.

101-2 Basis of Payment.

101-2.1 General: The work and incidental costs specified as being covered under this Section will be paid for at the lump sum prices for the items of mobilization included in the Schedule of Values.

101-2.2 Partial Payments: When the Notice to Proceed has been issued, partial payments will be made in accordance with the following:

For Contracts of 120 Contract days duration or less, partial payment will be made at 50% of the Mobilization amount shown in the Schedule of Values per month for the first two months until 100% of the Mobilization amount shown in the Schedule of Values is paid. For Contracts in excess of 120 Contract days duration, partial payment will be made at 25% of the Mobilization amount shown in the Schedule of Values per month for the first four months until 100% of the Mobilization amount shown in the Schedule of Values is paid. In no event shall more than 50% of the Mobilization amount shown in the Schedule of Values be paid prior to commencing construction on the project site.

Total partial payments for Mobilization on any project, including when more than one project or job is included in the Contract, will be limited to 10% of the original Contract amount for that project. Any remaining amount will be paid upon completion of all work on the Contract.

Retainage, as specified in 9-5, will be applied to all partial payments.

Partial payments made on this item will in no way act to preclude or limit any of

the provisions for partial payments otherwise provided for by the Contract.

PROSECUTION AND PROGRESS

(REV 4-2-19) (FA 9-23-19) (7-20)

Subarticle 8-10.2 is deleted and the following substituted:

8-10.2 Amount of Liquidated Damages: Applicable liquidated damages are the sum of the daily rate of \$ 2,500.00 per Calendar Day for ramps and \$75,000 per Calendar Day for the mainline SR 618 assessed as projected lost toll revenues for failure to complete the Work within the Contract Time plus the amounts established in the following schedule:

Original Contract Amount	Daily Charge Per Calendar Day
\$50,000 and under.....	\$1,015
Over \$50,000 but less than \$250,000.....	\$1,045
\$250,000 but less than \$500,000.....	\$1,170
\$500,000 but less than \$2,500,000.....	\$1,690
\$2,500,000 but less than \$5,000,000.....	\$2,579
\$5,000,000 but less than \$10,000,000.....	\$3,756
\$10,000,000 but less than \$15,000,000.....	\$4,344
\$15,000,000 but less than \$20,000,000.....	\$5,574
\$20,000,000 and over.....	\$10,203 plus 0.00005 of any amount over \$20 million (Round to nearest whole dollar)

APPENDICES

TECHNICAL SPECIAL PROVISIONS.

The following Technical Special Provisions are individually signed and sealed but are included as part of this Specifications Package.

CONCRETE DECK RESTORATION

TECHNICAL SPECIAL PROVISIONS

FOR

CONCRETE DECK RESTORATION

FINANCIAL PROJECT IDS:

Prepared for:
Tampa Hillsborough Expressway Authority

Prepared By: George Vaso, P.E.
November 21, 2019

T405 : CONCRETE RESTORATION

T405-1 Description:

Replace deteriorated concrete by placing polymer/latex modified concrete containing micro-silica or other specified material as indicated in the plans and these Technical Special Provisions.

For other specified materials, install in accordance with manufacturer's recommendations and the following installation requirements.

T405-2 Materials:

Mortar/concrete shall be polymer/latex modified-silica fume enhanced mortar/concrete and be approved by the engineer. The selected material shall achieve a minimum compressive strength of 4,500 psi in seven days and 5,500 psi in 28 days. Due to the nature of the repairs, materials applied with pneumatic sprayers are not allowed.

For horizontal spalls greater than 1 inch deep, use repair mortar that includes an FDOT approved aggregate in accordance with manufacturer's recommendations.

Proposed repair material and method of application (including manufacturer's specifications and formulation) shall be submitted to and approved by the Engineer prior to commencing work.

Materials must be applied in accordance with Section 400 of the FDOT Standards Specifications, these Technical Special Provisions, the plans, and the manufacturer's recommendations.

T405-3 Surface Preparation:

Perimeter of the repair area for all spall repairs to be saw cut along straight lines to 1- inch deep prior to removal of the existing concrete and repair material commences.

Remove deteriorated concrete to sound material (or limits described in plans) by chipping with light duty pneumatic or electric concrete chippers (30 LB or less).

Sandblast all reinforcing bars exposed after cleaning to leave a near white metal surface. Replace bars that have lost 1/4 or more of their original diameter with new bars spliced in place within the original cover, lapping sufficiently to develop the full strength of the bar as detailed in the plans and, if necessary, providing additional chipping. Dual bars of equivalent or greater section may be used. Where the bond between existing concrete and reinforcing steel has been destroyed, or where more than half the diameter of the steel is exposed, remove the concrete adjacent to the bar to a depth that will permit modified concrete to bond to the entire periphery of the exposed bar. A minimum of 1-inch clearance is required for this purpose. Prevent cutting, stretching or damaging of exposed reinforcing steel.

Sandblast clean existing concrete surfaces that will be in contact with freshly placed repair material and clean to remove loose material and dust immediately prior to application of repair material.

T405-4 Mixing:

Provide a Mix Plan for quantities of bag mix in excess of 1.0 cubic yard at a single location for the Engineer's approval including: manufacturer's specifications, method of mixing, means of application, and placement procedure to provide a homogenous pour free of cold joints. Use clean mixers and accurately proportioned ingredients. Mix the materials at the site in accordance with the specific equipment requirements. Ensure that the material, as discharged from the mixer, is uniform in composition and consistency.

T405-5 Quality Control:

A quality control/quality assurance (QC/QA) plan that shall govern all work shall be submitted by the Contractor to the Engineer for approval prior to commencing the installation work for the concrete restoration. Cost of the quality control and other technical services shall be included as incidental to the concrete restoration. No additional payments will be allowed for technical services.

As a minimum, include in the QC/QA Plan means and methods and equipment for removing the deficient concrete and cleaning the reinforcing steel, repair materials, and forming and placement methods (including testing). Also include frequency of intended QA visits and time to discuss QC and method of construction with Contractor's and the Engineer.

T405-6 Placing and Finishing:

Typical spall repair:

An epoxy bonding compound for bonding concrete, compatible with the repair material and approved by the Engineer, shall be applied and cured in accordance with approved manufacturer's instructions and Section 400-13 of the FDOT Standards Specifications. All work incidental to the concrete restoration work, shall be submitted to the Engineer for approval.

Typical crack repair:

Comply with FDOT Standard Specifications, Section 411.

T405-7 Limitations:

Make 4 to 6 extra test cylinders or cubes (as requested by the Engineer) and test for compressive strength gain determinations. The Engineer will determine the time of testing. Cure test cylinders in air for the full curing period required before testing. Do not place repair material at temperatures below 45°F, or above 85°F, or more stringent temperature ranges provided by the manufacturer unless adequate protection is provided against adverse effects of extreme temperature conditions.

Coarse aggregate for repair material (when bagged mix is used) shall be maintained at a clean, dry, location where protected from the elements to avoid material contamination. Amount of aggregate shall be as recommended by material manufacturer. Use coarse aggregate approved by the repair material manufacturer or from an FDOT approved source.

T405-8 Method of Measurement:

The quantity to be paid for will be the volume in the specified units of concrete repair material authorized, complete, in place and accepted. The method utilized in determining the volume shall be calculated by the Contractor for concurrence by the Engineer and will be the surface area multiplied by the average depth of such areas.

T405-9 Basis of Payment:

Payment will be made under:

Typical spall repair:

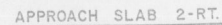
Price and payment will be full compensation for all work specified in this Technical Special Provision including all removals, surface preparations, bonding compound, concrete placement, forming, materials, equipment, tools, labor and other materials necessary to complete the work as outlined in these Technical Special Provisions and the plans.

Pay Item No. 405- 70- 2
Latex Modified Portland Cement Concrete
(Type III Cement) per cubic foot

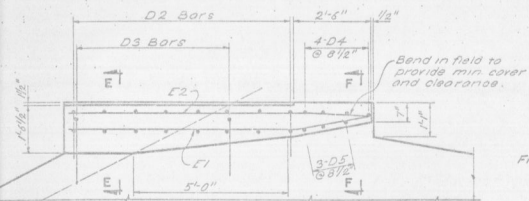
Typical crack repair:

Per FDOT Standard Specifications, Section 411.

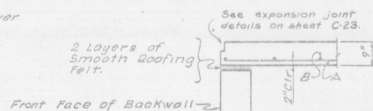
THIS COMPLETES THIS SPECIFICATIONS PACKAGE



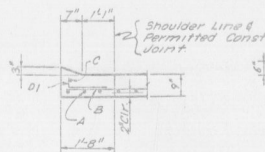
NO	REVISION	BY	DATE
TAMPA - HILLSBOROUGH COUNTY EXPRESSWAY AUTHORITY			
SOUTH CROSSTOWN EXPRESSWAY			
APPROACH SLABS 1-RT. 62-RT			
EXPRESSWAY OVER HIMES AV.			
J. E. GREINER COMPANY -- WATSON & COMPANY CONCRETE DIVISION TAMPA, FLORIDA			
MADE <u>Q. W. C.</u>	DATE <u>7-72</u>	TRACED	DATE
CHECKED <u>E. C. V.</u>	DATE <u>11-72</u>	SCALE	



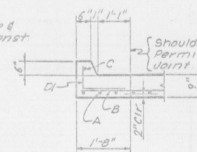
PLAN



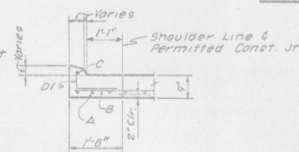
SECTION D-D



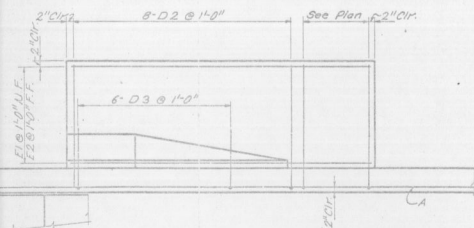
SECTION A-A



SECTION B-B

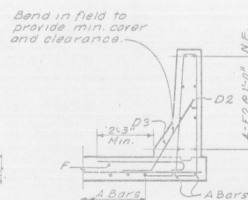


SECTION C-C

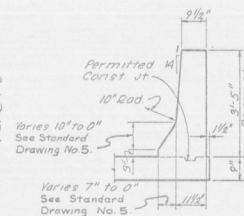


ELEVATION

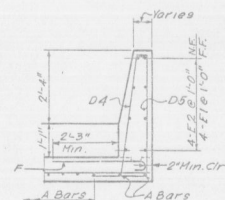
PARAPET REINFORCING STEEL DETAILS



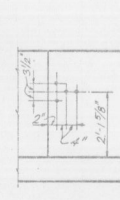
SECTION E-E



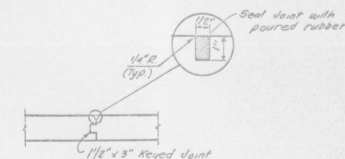
SECTION F-F



SECTION G-G



GUARDRAIL
ATTACHMENT DETAIL



CONSTR. JOINT DETAILS

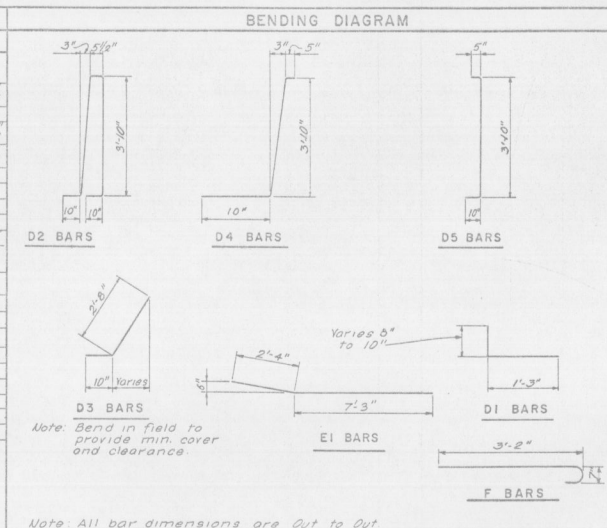
Note: Constr. Joints will be permitted with prior approval of the Engineer. Locations to be as follows:
Longitudinal Joints - Along edge of travel lane.
Transverse Joints - Normal to travel lane.

NOTES

1. Bent Bars detailed as shown. All other bars are straight.
2. Bars over 60 Ft. in length include a 30 bar diameter splice in the length shown.
3. Provide 1/2" Premolded Joint Filler with 1" joint Seal between Approach Slabs and End Bent Wingwalls.

Work this Sheet with Sheet

BILL OF REINFORCING STEEL															
1-RT.				2-RT.				1-LT.				2-LT.			
SIZE	NO REQ'D	LENGTH	MARK	SIZE	NO REQ'D	LENGTH	MARK	SIZE	NO REQ'D	LENGTH	MARK	SIZE	NO REQ'D	LENGTH	MARK
5	5	Varies 16'-0" to 20'-9"	A1	5	6	Varies 16'-0" to 20'-6"	A1	5	5	Varies 16'-0" to 19'-11"	A1	5	6	Varies 16'-0" to 20'-6"	A1
5	46	20'-0"	A2	5	44	20'-0"	A2	5	45	20'-0"	A2	5	45	20'-0"	A2
5	12	Varies 23'-5" to 59'-6"	A3	5	9	Varies 61'-8" to 84'-9"	A3	5	13	Varies 57'-8" to 22'-6"	A3	5	13	Varies 23'-4" to 57'-9"	A3
5	10	Varies 53'-0" to 97'-6"	A4	5	13	Varies 23'-4" to 87'-9"	A4	5	9	Varies 85'-9" to 62'-7"	A4	5	9	Varies 67'-9" to 84'-6"	A4
5	2	9'-8"	A5	5	3	9'-7"	A5	5	3	15'-8"	A5	5	2	9'-7"	A5
5	2	4'-8"													
5	1	14'-0"													
4	1	85'-11"													
4	2	Varies 89'-0" to 80'-0"													
4	1	92'-9"													
4	7	Varies 88'-3" to 64'-3"													
4	15	Varies 59'-3" to 91'-11"													
4	1	37'-4"													
4	1	4'-8"													
4	7	Varies 1'-11" to 2'-1"													
7	8	9'-10"													
7	6	3'-6"													
8	4	8'-1"													
8	3	5'-1"													
4	4	9'-7"													
4	4	9'-7"													



Note: All bar dimensions are Out to Out

ESTIMATED QUANTITIES					
ITEM	UNIT	QUANTITY			
		1-RT	2-RT	1-LT	2-LT
Class II Concrete	Cu. Yd.	54.5	49.8	51.5	49.8
Reinforcing Steel	Lb.	3716	3442	3543	3504

NO.	REVISION	BY	DATE
TAMPA-HILLSBOROUGH COUNTY EXPRESSWAY AUTHORITY			
SOUTH CROSSTOWN EXPRESSWAY			
APPROACH SLABS DETAILS EXPRESSWAY OVER HIMES AV.			
J. E. GREINER COMPANY - WATSON & COMPANY CONSULTING ENGINEERS TAMPA, FLORIDA			
MADE BY J.E.G.	DATE 12-73	TRACED	DATE
CHECKED E.C.V.	DATE 11-73	SCALE	