

ADDENDUM NO. 2  
to  
BIDDING/CONTRACT DOCUMENTS  
for  
CONSTRUCT WEST APRON EXPANSION AND  
INFRASTRUCTURE AT VPS

DESTIN-FORT WALTON BEACH AIRPORT

Okaloosa County ITB AP 51-19

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TO: All Prospective Bidders

DATE: April 9, 2019

DELIVERY: Posted on bidnetdirect.com/florida and myokaloosa.com/purchasing/home

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This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents as noted below. Acknowledge receipt of this Addendum in the space provided on Page BF-1 of the Bid Forms. Failure to do so may subject a Bidder to disqualification. The new bid opening date is on April 17, 2019 at 3:15PM (CST) as noted in Addendum 1. This Addendum consists of 4 pages plus attachments.

**I. PROJECT MANUAL**

1. Table of Contents:

Replace with attached revised Table of Contents. Page numbering has been corrected and the DBE Statement of Good Faith Effort added to the Bid Forms.

2. Instruction to Contractors(ITC) and Okaloosa County Standard Clauses (OCSC):

Replace these sections with attached to correct errors in the footer/page numbering. Additionally, the statement under "LIMITS OF LIABILITY" in the Okaloosa County Standards which read: "Refer to Section 5.4.8.1 of the General Conditions for additional specific insurance requirements." has been deleted.

3. Bid Forms:

- i) Replace the Bid Schedule with the attached revised Bid Schedule (pages BF-7.1 thru BF-7.4). A bid allowance for permit fees and item for double sided handicap signs have been added. Quantity adjustments have also been made. An excel file of this schedule is also provided for the contractor to use. All cells in the spreadsheet are locked except for the unit price column. Do not enter unit prices beyond 2 decimal places.
- ii) Replace bid form pages BF-31 and BF-32 with the attached revised pages.
- iii) Add the attached "Statement of Good Faith Efforts" form (pages BF-39 thru BF-43) This form must be completed and included in the bid submission if the bidder fails to meet the DBE goal stated in the bid documents.

4. General Conditions:

Delete Article 5 beginning on Page GC-15.

5. Technical Specification Item P-152 – Excavation, Subgrade and Embankment:

- i) In paragraph 152-2.1 on page P-152-1, replace the sentence which reads:

“This survey will be paid for under Item P-152-3 – Preconstruction Survey of Phase 1 Limits of Grading.”

with:

“This survey will be paid for under Item P-152-2 – Preconstruction Survey of Phase 1 Limits of Grading.”

- ii) In paragraph 152-2.1 on page P-152-1, replace the sentence which reads:

“All unsuitable material excavated from the site and not approved for use as topsoil shall be disposed of off airport property and shall be paid for under Item P-152-2, Unsuitable Excavation.”

with:

“All unsuitable material excavated from the site and not approved for use as topsoil shall be disposed of off airport property and shall be paid for under Item P-152-1, Unclassified Excavation.”

6. Appendix “A” – Geotechnical Report

Replace the Geotechnical Report with the attached copy. The file posted with the bid documents was corrupted with numerous errors.

7. Appendix “B” – Construction Safety and Phasing Plan (CSPP)

Delete the construction plan sheets in Appendix “E” of the CSPP, which were corrupted with numerous errors. Refer to the Construction Plans for copies of these drawings.

## **II. CONSTRUCTION PLANS**

1. Replace Sheets G3.4 thru G3.7 with the attached revised versions. Corrections to the allowable time for phases 5 thru 8 have been made.
2. Replace Sheet C3.1 and C4.1 with the attached revised versions. Corrections to the legend have been made.
3. Replace Drawing C4.12 with the attached revised version. Corrections to the grate elevations for inlet structures S11, S12 & S13 have been made.
4. Replace Sheet C5.2 with the attached revised version. The legend has been corrected.
5. Replace Sheet C7.2 with the attached revised version. Handicap spaces and signs have been added.
6. Replace Sheet C8.2, C8.6, and C8.8 with the attached revised version. Several notes were added/corrected on these sheets.
7. Make the following changes to the Temporary Covered Walkway photo and notes on Sheet G3.8:
  - (a) The walkway does not need to be an equal to the “Ready Box 1 Extra” shown in the photo, however, this photo does represent an example of an acceptable structure.
  - (b) The walkway is to have barriers on each side for the entire length. Barriers are to be Type K Temporary Concrete Barriers per FDOT Index No. 812 or Yodock model 2001 barriers as shown on Sheet G3.8 or equal.
  - (c) A scaffolding supported roof over the walkway mounted outside the barriers with a waterproof covering on the top and 2 ft down the sides from the top is to be provided.
  - (d) Covering does not need to be translucent.
  - (e) Scaffolding anchors must not penetrate or damage the pavement.

### III. QUESTIONS/RFI's

1. I would like to ask that the engineer take a look at structures 11, 12 and 13. It seems to me that the grate elevation is high, based on the surrounding contour lines.  
**RESPONSE: Sheet C4.12 has been re-issued as part of this addendum with the grate elevations for these structures corrected.**
2. In the Pre-Bid Agenda, Section 12, Estimated Quantities, It states that the contractor is to verify all quantities necessary to complete all work, and that any departure of the said quantities, no additional payment will be made to the contractor. This is in direct conflict with the specified Section GP-40-02, 03 and 04, and GC-34, 9.10. If the bid is turned in based upon the unit prices and quantities listed on the bid form, and there is additional work needed to complete the project, will the contractor be paid for additional work related cost?  
**RESPONSE: The contractor will be paid at the contract unit price for actual quantities of work performed and accepted. Section 12 of the Pre-Bid Agenda was meant to advise that any deviation of actual quantities of work performed from the contract quantities will not be considered grounds for a claim for additional money above the unit bid price or as grounds for a claim for damages, extension of time, or for loss of profits, provided the deviation does not represent a significant change in the character of the work as defined in Section 40 of the General Provisions.**
3. I cannot find specs or details for the Airfield Sanitary Sewer Manholes, line item 93. I see on page C8.8 the diagram for a typical sanitary sewer manhole, but can't find anything for the airfield manhole. Can you direct me on this?  
**RESPONSE: The note below the OCWS precast concrete manhole detail on Sheet C8.8 should have read "Detail shown is for a standard manhole. Contractor to provide structural design for aircraft rated manholes. Aircraft rate manholes and covers to be rated for 100,000 lb dual wheel load with 250 psi tire pressure." Since this note and other text on this sheet were corrupted rendering them unreadable Sheet C8.8 is being re-issued as part of this addendum.**
4. Right now pay item P-152-2 is "Pre-Construction Survey of Phase 1 Limits of Grading". The project manual states that P-152-2 should be the pay item for "unsuitable excavation", which is not included in the pay items. It also states that "Pre-Construction Survey of Phase 1 Limits of Grading" should be pay item P-152-3. Could we please get clarification on what these should be?  
**RESPONSE: The bid schedule is correct. Item P-152-2 is for the Pre-Construction Survey of Phase 1 Limits of Grading. Unsuitable excavation is to be paid for under item P-152-1, Unclassified Excavation.**
5. Can the thickness, of the existing asphalt in the Parking lot and roadway to the west of the apron, be provided? I do not see where it is listed in the bore logs.  
**RESPONSE: We do not have boring of the existing parking lot. Record drawings indicate it is 2" of asphalt over 8" of limerock base over 12" stabilized subgrade.**
6. Are Slats required in the temporary fence?  
**RESPONSE: No, slats are only required in the existing fence adjacent the West Gate and GSE pavement at the north end of the apron.**
7. Will the parking lot striping have to meet spec. P-620? There is not a separate line item for what could be FDOT Spec. 710.  
**RESPONSE: Yes, parking lot striping will be in accordance with spec Item P-620.**

**ATTACHMENTS TO ADDENDUM NO. 2:**

1. Revised Project Manual Table of Contents
2. Revised Instructions to Contractors
3. Revised Okaloosa County Standard Clauses
4. Revised Bid Schedule (hard copy and excel spreadsheet)
5. Revised Bid Form pages BF-31 and BF-32
6. DBE Statement of Good Faith Efforts (Bid Form pages BF-39 thru BF-43)
7. Geotechnical Report
8. Revised Construction Plan Sheets G3.4 thru G3.7, C3.1, C4.1, C4.12, C5.2, C7.2, C8.2, C8.6, and C8.8
9. Minutes to March 20, 2019 Pre-Bid Conference

**END OF ADDENDUM NO. 2**



**PROJECT MANUAL  
FOR  
CONSTRUCT WEST APRON EXPANSION AND INFRASTRUCTURE AT VPS**

**TABLE OF CONTENTS**

**FRONT END DOCUMENTS**

Invitation to Bid (ITB) & Respondent’s Acknowledgement	ITB-1
Notice to Bidders	NTB-1
Instructions to Contractors	ITC-1
Okaloosa County Standard Clauses	OCSC-1

**BID FORMS**

Bid Form	BF-1
Bid Schedule	BF-7
Bid Affidavit	BF-8
Bid Bond	BF-9
Contractor’s Qualification Questionnaire	BF-10
Performance of Subcontractors	BF-12
Form of Noncollusion Affidavit	BF-15
Certification of Non-Segregated Facilities	BF-16
Sworn Statement Under Section 287.133 (3) (a), Florida Statutes, on Public Entity Crimes	BF-17
Certificate as to Corporate Principal	BF-20
Certified Copy of Resolution of Board of Directors	BF-21
Conflict of Interest Disclosure Form	BF-22
Drug-Free Workplace Certification	BF-23
Certification of Contractor Regarding Trench Safety	BF-24
Indemnification and Hold Harmless	BF-25
Insurance Compliance	BF-26
Affidavit – Worker’s Compensation	BF-27
Recycled Content Form	BF-28
Disadvantaged Business Enterprise	BF-29
DBE Certificate of Compliance Form	BF-30
E-Verify Compliance Certification	BF-34
Cone of Silence	BF-35
Buy American Certificate	BF-36
Lobbying – 31 USC 1352	BF-37
Equal Employment Opportunity Report Statement	BF-38
DBE Statement of Good Faith Effort	BF-39

**CONTRACT FORMS**

Standard Form of Agreement	SFA-1
Performance Bond	SFA-9
Payment Bond	SFA-11

GENERAL CONDITIONS

GC-1

GENERAL PROVISIONS

Section 10 -	Definition of Terms	GP-10-1
Section 20 -	Deleted	OMITTED
Section 30 -	Deleted	OMITTED
Section 40 -	Scope of Work	GP-40-1
Section 50 -	Control of Work	GP-50-1
Section 60 -	Control of Materials	GP-60-1
Section 70 -	Legal Relations and Responsibility to the Public	GP-70-1
Section 80 -	Execution and Progress	GP-80-1
Section 90 -	Measurement and Payment	GP-90-1
Section 100 -	Required Contract Provisions for Airport Improvement Program and for Obligated Sponsors	GP-100-1

TECHNICAL SPECIFICATIONS

DIVISION 1 GENERAL REQUIREMENTS

01010	Summary of Work	01010-1
01030	Airport Project Procedures	01030-1
01040	Project Coordination	01040-1
01070	Abbreviations and Symbols	01070-1
01090	Regulations and Definitions	01090-1
01095	NPDES Permit Compliance	01095-1
01150	Measurement and Payment	01150-1
01210	Allowances	01210-1
01300	Submittals	01300-1
01400	Quality Control Services	01400-1
01510	Temporary Facilities	01510-1
01530	Airfield Temporary Markings and Barricades	01530-1
01600	Materials and Equipment	01600-1
01700	Contract Closeout	01700-1
	Affidavit of Payment;	01700-3
	Affidavit of Release of Lien;	01700-4
	Final Waiver of Lien;	01700-5
	Contractor Warranty Form;	01700-6
	Consent of Surety for Final Payment;	01700-7
	DBE Participation Report	01700-8
	Advertisement of Completion	01700-9
01710	Cleaning and Disposal	01710-1
01720	Project Record Documents	01720-1
01740	Warranties and Bonds	01740-1

GENERAL CONSTRUCTION ITEMS

C-100	Contractor Quality Control Program (CQCP)	C-100-1
C-102	Temporary Air and Water Pollution, Soil Erosion, and Siltation Control	C-102-1
C-105	Mobilization	C-105-1
C-110	Method of Estimating Percentage of Material Within Specification Limits	C-110-1

## DIVISION 2 - SITEWORK

S-100	FDOT Standard Specifications	P-100-1
S-140	Site Demolition	S-140-1
S-141	Pavement Milling	S-141-1
S-142	Pavement Marking Removal	P-142-1
P-151	Clearing and Grubbing	P-151-1
P-152	Excavation, Subgrade and Embankment	P-152-1
P-153	Controlled Low Strength Material (CLSM)	P-153-1
P-154	Subbase Course	P-154-1
P-209	Crushed Aggregate Base Course	P-209-1
P-211	Limerock Base Course	P-211-1
P-304	Cement Treated Base Course	P-304-1
P-306	Lean Concrete Base Course	P-306-1
P-401	Asphalt Mix Pavement	P-401-1
P-403	Asphalt Mix Pavements (Base Courses)	P-403-1
P-501	Cement Concrete Pavement	P-501-1
P-602	Emulsified Prime Coat	P-602-1
P-603	Emulsified Tack Coat	P-603-1
P-604	Compression Joint Seals for Concrete Pavements	P-604-1
P-605	Joint Sealants for Pavments	P-605-1
P-610	Concrete for Miscellaneous Structures	P-610-1
P-620	Pavement Marking	P-620-1
F-162	Chain Link Fence	F-162-1
F-165	Cantilever Slide Gate	F-165-1
F-166	Linear Induction Gate Operator	F-166-1
D-701	Pipe for Storm Drains and Culverts	D-701-1
D-751	Drainage Structures	D-751-1
T-905	Topsoiling	T-905-1
02606	Sanitary Sewer Manholes	02606-1
15051	Buried Water and Sanitary Piping	15051-1
15100	Valves 4 inch and Larger	15100-1

## Wastewater Lift Station

33 32 17	Submersible Utility Wastewater Pumping Station	333217-1
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## ARCHITECTURAL

03 30 00	Cast-in-Place Concrete	02 30 00-1
04 22 00	Concrete Unit Masonry	04 22 00-1
05 12 00	Structural Steel Framing	05 12 00-1
07 92 00	Joint Sealants	07 92 00-1
08 45 13	PolyCarbonite	08 45 13-1

## LIGHTING

L-100	General Provisions and Requirements for Electrical Work	L-100-1
L-104	General Electrical Safety Requirements and Temp Aflld Ltg	L-104-1
L-105	Alterations, Removal, and Demolition	L-105-1
L-106	Submittals, Record Documents	L-106-1
L-108	Underground Power Cable for Airports	L-108-1
L-110	Airport Underground Electrical Duct Banks and Conduits	L-110-1
L-125	Installation of Airport Lighting Systems	L-125-1
L-260511	Requirements for Electrical Installations	L-260511-1
L-260521	Low-Voltage Electrical Power Conductors and Cables (600 Volts and below)	L-260521-1
L-260526	Grounding and Bonding for Electrical Systems	L-260526-1
L-260541	Underground Electrical Construction	L-260541-1
L-265600	Exterior Lighting	L-265600-1
L-330523	Directional Bore	L-330523-1

## APPENDICES

Appendix "A"	Geotechnical Report (Intertek-PSI)
Appendix "B"	Construction Safety and Phasing Plan

## INSTRUCTIONS TO CONTRACTORS

### PROJECT IDENTIFICATION:

- a) Project Title:  
**CONSTRUCT WEST APRON EXPANSION AND INFRASTRUCTURE AT VPS**
- b) Owner:  
**OKALOOSA COUNTY BOARD OF COUNTY COMMISSIONERS**
- c) Engineer:  
**INFRASTRUCTURE CONSULTING & ENGINEERING**

### 1. Defined Terms.

Terms used in the Instructions to Contractors that are defined in the Standard General Conditions of the Project Manual have the meanings assigned to them in the General Conditions.

Certain additional terms used in the Instruction to Contractors have the meanings indicated below which are applicable to both the singular and plural thereof.

- 1.1 Contractor – one who submits a Bid directly to Owner as distinct from sub-contractor, who submits a bid to a Contractor.
- 1.2 Issuing Office – the office from which the Project Documents are to be issued and where the bid procedures are to be administered.
- 1.3 Successful Contractor – the lowest, responsible and responsive Contractor to whom Owner (on the basis of Owner's evaluation as hereinafter provided) makes and award.

### 2. Copies of Project Documents.

- 2.1 Complete sets of the Project Documents in the number and for the sum, if any, stated in the Advertisement or Notice to Contractors may be obtained from the Issuing Office.
- 2.2 Complete sets of Project Documents must be used in preparing Bids; neither Owner nor Engineer assume any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Project Documents.
- 2.3 Owner and Engineer in making copies of Project Documents available on the above terms do so only for the purpose of obtaining Bids for the Work and do not confer a license or grant for any other use.

### 3. Qualifications of Contractors.

To demonstrate qualifications to perform the Work, each Contractor must upon Owner's request detailed written evidence such as financial data, previous experience, present commitments and

other such data as may be called for below. Each Bid must contain evidence of Contractors qualification to do business in the state where the Project is located or covenant to obtain such qualification prior to award of the contract.

#### **4. Examination of Documents and Site.**

4.1 It is the responsibility of each contractor before submitting a Bid:

4.1.1 To examine thoroughly these documents and other related data identified (including "technical data" referred to below);

4.1.2 To visit the site to become familiar with and satisfy Contractor as to the general, local and site conditions that may affect cost, progress, performance, or furnishing of the Work;

4.1.3 To consider federal, state, and local Laws and Regulations that may affect cost, progress, performance or furnishing of the Work;

4.1.4 To study and carefully correlate Contractors knowledge and observations with these Project Documents and such other related data; and

4.1.5 To promptly notify County of all conflicts, errors, ambiguities or discrepancies which Contractor has discovered in or between these Project Documents and such other related documents.

4.2 thru 4.5 (omitted)

4.6 On request, Owner will provide each Contractor access to the site to conduct such examinations, investigations, explorations, tests, and studies as each Contractor deems necessary for submission of a Bid. Contractor must fill all holes and clean up and restore the site to its former conditions upon completion of such explorations, investigations, tests, and studies.

4.7 Reference is made to the Supplementary Conditions for the identification of the general nature of work that is to be performed at the site by Owner or others (such as utilities and other prime contractors) that relates to the work for which a Bid is to be submitted. On request, Owner will provide to each Contractor for examination access to or copies of appropriate documents (other than portions thereof related to price) for such work. Any such requests must go through Issuing office.

4.8 The submission of a Bid will constitute and incontrovertible representation by Contractor that Contractor has complied with every requirement of this Article 4, that without exception of the Bid is premised upon performing and furnishing the Work required by these Project Documents and applying the specific means, methods, techniques, sequences, or procedures for construction (if any) that may be shown or indicated or expressly required by these Project Documents. The Contractor has given County written notice of all conflicts, errors, ambiguities and discrepancies that Contractor has discovered in these Project Documents. The Bid documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work.

4.9 The provisions of 1-4.1 through 4.8, inclusive, do not apply to Asbestos, Polychlorinated biphenyls (PCBs), Petroleum, Hazardous Waste, or Radioactive Material covered by Paragraph 4.5 of the General Conditions.

#### **5. Availability of Lands for Work, Etc.**

The lands upon which the Work is to be performed, rights-of-way and easements for access thereto and other lands designated for use by the successful Contractor in performing the Work

are identified in these Project Documents. All additional land and access thereto required for temporary construction facilities, construction equipment, or storage of materials and equipment to be incorporated in the Work are to be obtained and paid for by the Successful Contractor. Easements for permanent structures or permanent changes in existing facilities are to be obtained and paid for by Owner unless otherwise provided in these Project Documents. Interpretations and Addenda.

- 5.1 All questions about the meaning or intent of these Project Documents are to be directed to Issuing Office. Interpretations or clarifications considered necessary by Issuing Office in response to such questions will be issued by Addenda on the Purchasing website and bid net as mentioned above. Questions received after the question deadline may not be answered. Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

Addenda may also be issued to modify these Project Documents as deemed advisable by Owner or Engineer.

## **6. Bid Security.**

- 6.1 Each Bid must be accompanied by Bid security made payable to Owner in an amount of five percent (5%) of Contractors maximum Bid Price in the form of a certified or bank check or a Bid Bond form attached, issued by a surety meeting the requirements of Paragraph 5.1 of the General Conditions.

- 6.2 The Bid security of Successful Contractor will be retained until such Contractor has executed the Agreement, furnished the required contract security, and met the other conditions of the Notice of Award, whereupon the Bid security will be returned. If the Successful Contractor fails to execute and deliver the Agreement and furnish the required contract security within fifteen days of receiving the contract, Owner may annul the Notice of Award and the Bid security of that Contractor will be forfeited. The Contractor security of other Contractors whom Owner believes to have a reasonable chance of receiving the award may be retained by Owner until the earlier of:

the seventh (7th) day after the Effective Date of the

Agreement or

the Bid acceptance period as stated in the Bid Form,

whereupon Bid security furnished by such Contractors will be returned. Bid security with Bids which are not competitive will be returned within seven (7) days after the issuing of the Intent to Award.

## **7. Contract Times.**

The number of days within which, or the dates by which, the Work is to be substantially completed and also completed and ready for final payment (the term "Contract Times" is defined in paragraph

1.12 of the General Conditions) are set forth in the Agreement (or incorporated therein by reference to the attached Bid Form).

**9. Substitute and "Or-Equal" Items.**

The Contract, if awarded, will be on the basis of materials and equipment described in the Drawings or specified in the Specifications. Whenever it is indicated in the Drawings or specified in the specifications that a substitute or "or-equal" item of material or equipment may be furnished or used by Contractor if acceptable to the County, acceptance of the substitution "or equal" to material or equipment, will typically be considered by the County after the contract is awarded. However, any proposed substitution that represents a deviation from the design intent, must be approved prior to submission of the bid responses. A determination as to whether a design deviation or particular item that changes the design intent of the plans or specification is acceptable as a substitute or "equal" will be made by the County and Engineer. Design deviations approved prior to bid submittals will be made known to other bidders through an addendum. Specific product substitute materials or equipment and requested "or equal" items to be used will be reviewed during the submittal process and follow the procedures outlined in Paragraphs 6.7.1, 6.7.2. and 6.7.3. of the General Conditions.

**10. Subcontractors, Suppliers, and Others**

- 10.1 If the Supplementary Conditions require the identity of certain Subcontractors, Suppliers and other persons and organizations (including those who are to furnish the principal items of material and equipment) are to be submitted to Owner in advance of a specified date prior to the Effective Date of the Agreement Apparent Successful Contractor, and any other Contractor so requested, shall with Bid documents submit to Owner a list of all such Subcontractors, Suppliers, and other persons and organizations proposed for those portions of the Work for which such identification is required. Such list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each such Subcontractor Supplier, person, or organization if requested by Owner. An Owner or Engineer who after due investigation has reasonable objection to any proposed Subcontractor, Supplier, other person, or organization, may before the Notice of Award is given request apparent Successful Contractor to submit an acceptable substitute without an increase in Bid Price.

If apparent Successful Contractor declines to make any such substitution, Owner may award the contract to the next lowest Contractor that proposes to use acceptable Subcontractors, Suppliers, and other persons and organizations. The declining to make requested substitutions will not constitute grounds for sacrificing the Bid security of any Contractor. Any subcontractor, Supplier, other person or organization listed and to whom Owner or Engineer does not make written objection prior to the giving of the Notice of Award will be deemed acceptable to Owner and Engineer subject to revocation of such acceptance after the Effective Date of the Agreement as provided in Paragraph 6.8.2 of the General Conditions.

**11. Bid Form.**

- 11.1 All blanks on the Bid Form must be completed by printing in ink or by typewriter. Bidforms shall be made available to bidders in excel format.
- 11.2 Bids by corporations must be executed in the corporate name by the president or a vice-president (or other corporate officer accompanied by evidence of authority to sign) and the corporate seal must be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation must be shown below the signature.



- 11.3 Bids by partnerships must be executed in the partnership name and signed by a partner, whose title must appear under the signature and the official address of the partnership must be shown below the signature.
- 11.4 All names must be typed or printed in ink below the signature.
- 11.5 The bid shall contain an acknowledgment of receipt of all Addenda (the numbers of which must be filled in on the Bid Form).
- 11.6 The address and telephone number for communications regarding the bid must be shown.
- 11.7 Evidence of authority to conduct business as an out-of-state corporation in the state where the Work is to be performed shall be provided. State contractor license number, if any, must also be shown.

**12. Submission of Bids.**

Contractor shall submit the original plus two (2) copies of their bid to the place indicated in the Advertisement of Notice to Contractor.

- 12.2 Bids shall be submitted at the time and place indicated in the Advertisement of Notice to Contractor and shall be enclosed in an opaque sealed envelope, marked with the Project title and name and address of Contractor and accompanied by the Bid security and other required documents. If the Bid is sent through the mail or other delivery system the sealed envelope shall be enclosed in a separate envelope with the notation "**BID ENCLOSED – CONSTRUCT WEST APRON EXPANSION AND INFRASTRUCTURE AT VPS**" on the face of it.

**13. Modification and Withdrawal of Bids.**

- 13.1 Bids may be modified or withdrawn by an appropriate document duly executed (in the manner that a Bid must be executed) and delivered to the place where Bids are submitted at any time prior to the opening of Bids.
- 13.2 If, within twenty-four hours after Bids are opened, any Contractor files a duly signed, written notice with Owner and promptly thereafter demonstrates to the reasonable satisfaction of Owner that there was a material and substantial mistake in the preparation of its Bid, that Contractor may withdraw its Bid and bid security will be returned. Thereafter, that Contractor will be disqualified from further bids on the Work to be provided under the Project Documents.

**14. Opening of Bids.**

Bids will be opened and (unless obviously non-responsive) read aloud publicly at the place where Bids are to be submitted. An abstract of the amounts of the base Bids and major alternates (if any) will be made available to Contractors after the opening of Bids.

**15. Bids to Remain Subject to Acceptance.**

All Bids will remain subject to acceptance for the duration as specified in the Bid Forms but Owner may, in its sole discretion, release any Bid and return the Bid security prior to that date.

**16. Disqualification of Contractors**

Any of the following reasons may be considered as sufficient for the disqualification of a contractor and the rejection of his proposal or proposals:

More than one proposal for the same work from an individual, firm or corporation under the same or different name.

Evidence that the contractor has a financial interest in the firm of another contractor for the same work.

Evidence of collusion among contractors. Participants in such conclusion will receive no recognition as contractors for any future work of the County until such participant shall have been reinstated as a qualified contractor.

Uncompleted work that in the judgment of the County might hinder or prevent the prompt completion of additional work if awarded.

Failure to pay or satisfactorily settle all bills due for labor and material on former contracts in force at the time of advertisement for bids.

Default under previous contract.

#### **17. Award of Contract.**

- 17.1 Owner reserves the right to reject any or all Bids, including without limitation the rights to reject any or all nonconforming, non-responsive, unbalanced, or conditional Bids and to reject the Bid of any Contractor if Owner believes that it would not be in the best interest of the Project to make an award to that Contractor, whether because the Bid is not responsible or the Contractor is unqualified or of doubtful financial ability or fails to meet any other pertinent standard or criteria established by Owner. Owner also reserves the right to waive all informalities not involving price, time, or changes in the Work. Discrepancies between the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between words and figures will be resolved in favor of the words.
- 17.2 Owner may conduct such investigations as Owner deems necessary to assist in the evaluation of any Bid and to establish the responsibility, qualifications, and financial ability of Contractors, proposed Subcontractors, Suppliers, and other persons and organizations to perform and furnish the Work in accordance with the Project Documents to Owner's satisfaction within the prescribed time.
- 17.3 The Owner in its absolute discretion may reject any bid of a Contractor that has failed, in the opinion of the Owner, to complete or perform an Owner-contracted project in a timely fashion, and emphasizes this condition to potential Contractors.
- 17.4 If a contract is to be awarded, it shall be awarded to the responsible and responsive bidder who submits the lowest responsive bid. Owner may request from the proposers additional information to be provided to the County prior to Notice of Award.

#### **18. Pre-Bid Conference.**

A **non-mandatory** Pre-Bid Conference will be conducted at the time and place stated in the

Notice to Bidders. Engineer, in conjunction with the County's Purchasing Department, will transmit to all plan holders of record such Addenda as Engineer considers necessary in response to written questions received no later than seven (7) days prior to the Bid Opening date. Oral statements may not be relied upon and will not be binding or legally effective.

**19. Sales and Use Taxes.**

Work under this Bid is subject to the provisions of Chapter 212, Florida Statutes, Tax on state, Use and Other Transactions. Other state, local, or federal taxes may be applicable. The contractor is responsible to remit to the appropriate governmental entity all applicable taxes. Any applicable tax shall be included in the total Bid price by the contractor.

END OF INSTRUCTIONS TO CONTRACTORS

## **OKALOOSA COUNTY STANDARD CLAUSES**

### **INDEMNIFICATION AND HOLD HARMLESS**

**CONTRACTOR** shall indemnify and hold harmless **COUNTY**, its officers and employees from liabilities, damages, losses, and costs including but not limited to reasonable attorney fees, to the extent caused by the negligence, recklessness, or intentional wrongful conduct of the **CONTRACTOR** and other persons employed or utilized by the **CONTRACTOR** in the performance of this Agreement.

NOTE: For Contractor's convenience, this certification form is enclosed and is made a part of the bid package.

### **CONFLICT OF INTEREST**

The award hereunder is subject to the provisions of Chapter 112, Florida Statutes. All respondents must disclose with the proposal the name of any officer, director, or agent who is also a public officer or an employee of the Okaloosa Board of County Commissioners, or any of its agencies.

Furthermore, all respondents must disclose the name of any County officer or employee who owns, directly or indirectly, an interest of five percent (5%) or more in the firm or any of its branches.

Furthermore, the official, prior to or at the time of submission of the proposal, must file a statement with the Clerk of Circuit Court of Okaloosa County if he is an officer or employee of the County, disclosing his or spouse's or child's interest and the nature of the intended business.

NOTE: For Contractor's convenience, a certification form is enclosed and is made a part of the bid package

### **IDENTICAL TIE PROPOSALS**

In cases of identical procurement responses, the award shall be determined either by lot or on the basis of factors deemed to serve the best interest of the County. In the case of the latter, there must be adequate documentation to support such a decision.

### **TRENCH SAFETY ACT**

Each contractor must submit with his bid an executed sworn certification that he will comply with the Trench Safety Act, Chapter 90-96, Florida Statutes, on trench safety.

NOTE: For Contractor's convenience, a certification form is enclosed and is made a part of the bid package.

### **PUBLIC ENTITY CRIME INFORMATION**

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public

entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.107, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendorlist.

### **BONDING REQUIREMENTS**

Bid Bond, Payment Bond and Performance Bond, and others as required.

### **INSURANCE REQUIREMENTS**

#### **CONTRACTORS INSURANCE**

1. The Contractor shall not commence any work in connection with this Agreement until he has obtained all required insurance and such insurance has been approved by the Okaloosa County Risk Manager or designee.
2. All insurance policies shall be with insurers authorized to do business in the State of Florida.
3. All insurance shall include the interest of all entities named and their respective officials, employees & volunteers of each and all other interests as may be reasonably required by Okaloosa County. The coverage afforded the Additional Insured under this policy shall be primary insurance. If the Additional Insured have other insurance that is applicable to the loss, such other insurance shall be on an excess or contingent basis. The amount of the company's liability under this policy shall not be reduced by the existence of such other insurance.
4. The County shall be shown as an Additional Insured with a Waiver of Subrogation on the Certificate of Insurance for all policies.
5. The County shall retain the right to reject all insurance policies that do not meet the requirement of this Agreement. Further, the County reserves the right to change these insurance requirements with 60-day notice to the Contractor.
6. The County reserves the right at any time to require the Contractor to provide copies of any insurance policies to document the insurance coverage specified in this Agreement.
7. The designation of Contractor shall include any associated or subsidiary company which is involved and is a part of the contract and such, if any associated or subsidiary company involved in the project must be named in the Workers' Compensation coverage.
8. Any exclusions or provisions in the insurance maintained by the Contractor that excludes coverage for work contemplated in this agreement shall be deemed unacceptable and shall be considered breach of contract.

#### **WORKERS' COMPENSATION INSURANCE**

1. The Contractor shall secure and maintain during the life of this Agreement Workers'

Compensation insurance for all of his employees employed for the project or any site connected with the work, including supervision, administration or management, of this project and in case any work is sublet, with the approval of the County, the Contractor shall require the Subcontractor similarly to provide Workers' Compensation insurance for all employees employed at the site of the project, and such evidence of insurance shall be furnished to the County not less than ten (10) days prior to the commencement of any and all sub-contractual Agreements which have been approved by the County.

2. Contractor must be in compliance with all applicable State and Federal workers' compensation laws, including the U.S. Longshore Harbor Workers' Act or Jones Act, if applicable.
3. No class of employee, including the Contractor himself, shall be excluded from the Workers' Compensation insurance coverage. The Workers' Compensation insurance shall also include Employer's Liability coverage.

**BUSINESS AUTOMOBILE LIABILITY**

Coverage must be afforded for all Owned, Hired, Scheduled, and Non-Owned vehicles for Bodily Injury and Property Damage in an amount not less than specified herein. If the contractor does not own vehicles, the contractor shall maintain coverage for Hired & Non-Owned Auto Liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Policy. Contractor must maintain this insurance coverage throughout the life of this Agreement. Okaloosa County shall be named as an additional insured.

**COMMERCIAL GENERAL LIABILITY INSURANCE**

1. The Contractor shall carry other Commercial General Liability insurance against all other Bodily Injury, Property Damage and Personal and Advertising Injury exposures.
2. All liability insurance (other than Professional Liability) shall be written on an occurrence basis and shall not be written on a claims-made basis. If the insurance is issued with an aggregate limit of liability, the aggregate limit of liability shall apply only to the locations included in this Agreement. If, as the result of any claims or other reasons, the available limits of insurance reduce to less than those stated in the Limits of Liability, the Contractor shall notify the County representative in writing. The Contractor shall purchase additional liability insurance to maintain the requirements established in this Agreement. Umbrella or Excess Liability insurance can be purchased to meet the Limits of Liability specified in this Agreement.
3. Commercial General Liability coverage shall include the following:
  - 1.) Premises & Operations Liability
  - 2.) Bodily Injury and Property Damage Liability
  - 3.) Independent Contractors Liability
  - 4.) Contractual Liability
  - 5.) Products and Completed Operations Liability

4. Contractor shall agree to keep in continuous force Commercial General Liability coverage for the length of the contract.

**LIMITS OF LIABILITY**

The insurance required shall be written for not less than the following, or greater if required by law, and shall include Employer’s liability with limits as prescribed in this contract.

	<b>LIMIT</b>
1. Worker’s Compensation	
1.) State	Statutory
2.) Employer’s Liability	<b>\$15,000,000</b> each
accidentBusiness Automobile	<b>\$15,000,000</b> each accident
(A combined single limit)	
2. Commercial General Liability	<b>\$15,000,000</b> each
	occurrence for Bodily
	Injury & Property
	Damage
	<b>\$15,000,000</b> each
	occurrence Products and
	completed operations
3. Personal and Advertising Injury	<b>\$15,000,000</b> each occurrence

**NOTICE OF CLAIMS OR LITIGATION**

The Contractor agrees to report any incident or claim that results from performance of this Agreement. The County representative shall receive written notice in the form of a detailed written report describing the incident or claim within ten (10) days of the Contractor’s knowledge. In the event such incident or claim involves injury and/or property damage to a third party, verbal notification shall be given the same day the Contractor becomes aware of the incident or claim followed by a written detailed report within ten (10) days of verbal notification.

**INDEMNIFICATION & HOLD HARMLESS**

To the fullest extent permitted by law, Contractor shall indemnify and hold harmless the County, its officers and employees from liabilities, damages, losses, and costs including but not limited to reasonable attorney fees, to the extent caused by the negligence, recklessness, or wrongful conduct of the Contractor and other persons employed or utilized by the Contractor in the performance of this contract.

**Note: For Contractor’s convenience, this certification form is enclosed and is made a part of the bid package.**

## **CERTIFICATE OF INSURANCE**

1. Certificates of insurance indicating the job site and evidencing all required coverage must be submitted not less than 10 days prior to the commencement of any of the work. The certificate holder(s) shall be as follows: Okaloosa County, 5479A Old Bethel Road, Crestview, Florida, 32536.
2. The contractor shall provide a Certificate of Insurance to the County with a thirty (30) day notice of cancellation; ten (10 days' notice if cancellation is for nonpayment of premium).
3. In the event that the insurer is unable to accommodate the cancellation notice requirement, it shall be the responsibility of the contractor to provide the proper notice. Such notification shall be in writing by registered mail, return receipt requested, and addressed to the Okaloosa County Purchasing Department at 5479-A Old Bethel Road, Crestview, FL 32536.

## **GENERAL TERMS**

Any type of insurance or increase of limits of liability not described above which, the Respondent required for its own protection or on account of statute shall be its own responsibility and at its own expense. The carrying of the insurance described shall in no way be interpreted as relieving the Respondent of any responsibility under this contract.

Should the Respondent engage a subcontractor or sub-subcontractor, the same conditions will apply under this Agreement to each subcontractor and sub-subcontractor.

The Respondent hereby waives all rights of subrogation against Okaloosa County and its consultants and other indemnities of the Respondent under all the foregoing policies of insurance.

## **UMBRELLA INSURANCE**

The Respondent shall have the right to meet the liability insurance requirements with the purchase of an umbrella insurance policy. In all instances, the combination of primary and umbrella liability coverage must equal or exceed the minimum liability insurance limits stated in this Agreement. If using an umbrella insurance policy to meet the requirements, it must include Okaloosa County as an additional insured.

## **DELIVERY OF BIDS**

Bid Opening shall be public, on the date and time specified on the NOTICE TO CONTRACTORS. It is the contractor's responsibility to assure that his bid is delivered at the proper time and place. Offers by telegram, facsimile, or telephone are NOT acceptable. NOTE: Crestview, Florida is "not a next-day-guaranteed delivery location" by delivery services.

## **Liquidated Damages:**

- a. In case of failure on the part of the Contractor to complete the work within the time(s) specified



in the contract, or within such additional time(s) as may be granted by Okaloosa County, the County will suffer damage, the amount of which is difficult, if not impossible, to ascertain. Therefore, the Contractor shall pay to the County, as liquidated damages, the amount established in the schedule below for each calendar day of delay that actual completion extends beyond the time limit specified until such reasonable time as

may be required for final completion of the work. In no way shall costs for liquidated damages be construed as penalty on the contractor.

**Daily Charge**

<u>Original Contract Amount</u>	<u>Per Calendar Day</u>
<b>\$50,000 and under</b>	<b>\$ 311</b>
<b>Over \$50,000 but less than \$250,000</b>	<b>972</b>
<b>\$250,000 but less than \$500,000</b>	<b>1584</b>
<b>\$500,000 but less than \$2,500,000</b>	<b>1924</b>
<b>\$2,500,000 but less than \$5,000,000</b>	<b>2694</b>
<b>\$5,000,000 but less than \$10,000,000</b>	<b>3902</b>
<b>\$10,000,000 but less than \$15,000,000</b>	<b>6102</b>
<b>\$15,000,000 but less than \$20,000,000</b>	<b>7022</b>
<b>\$20,000,000 and over</b>	<b>7022 plus 0.2% for any amount over \$20 million</b>

- b. **Determination of Number of Days of Default:** For all contracts, regardless of whether the contract time is stipulated in calendar days or working days, the default days shall be counted in calendar days.
- c. **Conditions under which Liquidated Damages are Imposed:** Should the Contractor or, in case of his default, the Surety, fail to complete the work within the time stipulated in the contract, or within such extra time as may have been granted by the County, the Contractor or, in case of his default, the Surety, shall pay to the County, not as a penalty, but as liquidated damages, the amount as provided above.
- d. **Right of Collection:** The County shall have the right to apply as payment on such liquidated damages any money which is due to the Contractor by the County.
- e. **Permitting Contractor to Finish Work:** Permitting the Contractor to continue and to finish the work, or any part of it, after the expiration of the contract time allowed, including extensions of time granted to the Contractor, shall in no way act as a waiver on the part of the County the liquidated damages due under the contract.
- f. **Completion of Work by County:** In case of default of the contract and the completion of the work by the County, the Contractor and his Surety shall be liable for the liquidated damages under the contract, but no liquidated damages shall be chargeable for any delay in the final completion of the work by the County due to any unreasonable action or delay on the part of the County.

**END OF OKALOOSA COUNTY STANDARD CLAUSES**



**Bid Schedule**  
**Construct West Apron Expansion and Infrastructure at VPS**  
**Destin - Fort Walton Beach Airport**



Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Amount
1	C-105	Mobilization	1	LS		
2	C-100	Contractor Quality Control Program	1	LS		
3	01210-1	Bid Allowance 1: For the purchase, delivery and installation of one new intercom system for the west gate, 2-360 degree security cameras mounted on light poles in the credit card parking lot and 2 -360 degree security cameras mounted on high mast light poles in the west apron expansion. Includes integration with Air Operations Center (AOC) communications and security system	1	LS	\$25,000.00	\$25,000.00
4	01210-2	Bid Allowance 2: For the purchase, delivery and installation of a flush station on the OCWS 20" water main as detailed in the plans. Includes 20" water line, fittings, valves and concrete pad.	1	LS	\$50,000.00	\$50,000.00
5	01210-3	Bid Allowance 3: For Okaloosa County Permit Fees	1	LS	\$5,000.00	\$5,000.00
6	1510-1	Engineer's Field Office	1	LS		
7	1510-2	Temporary Covered Passenger Walkway	1	LS		
8	01720	Project Record Documents	1	LS		
9	S-140-1	Full Depth Asphalt Pavement Removal	9,052	SY		
10	S-140-2	Asphalt Surface Course Removal	773	SY		
11	S-140-3	Concrete Pavement Removal	1,510	SY		
12	S-140-4	Remove 36" CMP Culvert	1	EA		
13	S-140-5	Remove Water Line Flush Facility, including 20" DIP Water Pipe with Stand Pipe, Concrete Box and Pad and Riprap Apron	1	LS		
14	S-140-6	Remove Chain Link Fence	2,306	LF		
15	S-140-7	Remove Chain Link Fence Slide Gate and operator	1	EACH		
16	S-140-8	Remove Sanitary Sewer Lift Station, including Valve Box and Control Panel	1	LS		
17	S-140-9	Remove Lav Cart Dump Facility, including Grinder Pump Station, Control Panel, Effluent Inlet Drain and Piping, and 2" Force main	1	LS		
18	S-140-10	Remove Sanitary Sewer Manhole	2			
19	S-140-11	Remove 2" PE Sanitary Sewer Force Main	755	LF		
20	S-140-12	Remove 6" PVC Sanitary Sewer Force Main	749	LF		
21	S-140-13	Remove 6" & 12" DIP Water Main	1,119	LF		
22	S-140-14	Remove Existing Riprap	1	LS		
23	S-140-15	Remove Existing Aluminum Shed	1	LS		
24	S-140-16	Remove Existing Masonry Building with Canopy	1	LS		
25	S-141	Asphalt Pavement Milling	11,560	SY		
26	S-142	Pavement Marking Removal	405	SF		
27	P-151-1	Clearing and Grubbing	6.0	AC		
28	P-151-2	Tree Removal	21.0	EA		
29	P-152-1	Unclassified Excavation	16815	CY		
30	P-152-2	Pre-Construction Survey of Phase 1 Limits of Grading	1	LS		
31	P-154-1	6" Subbase Course	39,240	SY		
32	P-154-2	Separation Geotextile	27,850	SY		
33	P-209-1/P-211-1	Optional Base Course	25,904	SY		
34	P-209-2	6" Crushed Aggregate Base Course	13,337	SY		
35	P-209-3/P-211-2	Separation Geotextile	27,580	SY		
36	P-304-1/P-306-1/ P-403-1	Optional Stabilized Base Course for PCC Pavement	12,326	SY		



**Bid Schedule**  
**Construct West Apron Expansion and Infrastructure at VPS**  
**Destin - Fort Walton Beach Airport**



Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Amount
37	P-304-2/P-403-2	Optional Stabilized Base Course for Asphalt Pavement	13,386	SY		
38	P-401	Asphalt Surface Course	3,335	TON		
39	FDOT-334	Type SP-12.5 Asphalt Surface Course	2,035	TON		
40	P-501-1	8" Concrete Pavement	6,180	SY		
41	P-501-2	15" Concrete Pavement	6,146	SY		
42	P-602	Emulsified Asphalt Prime Coat	9,583	GAL		
43	P-603	Emulsified Asphalt Tack Coat	2,681	GAL		
44	P-620-1	Non-Reflective Pavement Markings	12,859	SF		
45	P-620-2	Reflective Pavement Markings	9,911	SF		
46	P-620-3	Reflective Pavement Markings (Red Paint)	760	SF		
47	P-620-4	Temporary Pavement Markings (Non-Reflective)	3,788	SF		
48	F-162-1	Chain Link Fence	2,133	LF		
49	F-162-2	Install High Density Polyethylene Slats in Existing Chain Link Fence	210	LF		
50	F-162-3	Temporary Chain Link Fence	2,948	LF		
51	F-162-4	Double Swing Gate (15' Opening)	4	EA		
52	F-165-1	Cantilever Slide Gate (15' Opening)	1	EA		
53	F-165-2	Cantilever Slide Gate (26' Opening)	1	EA		
54	F-166-1	Linear Induction Slide Gate Operator	1	EA		
55	F-166-2	Relocation of Existing Gate Electrical Equipment	1	LS		
56	D-701-1	12 inch Class III RCP	33	LF		
57	D-701-2	12 inch Class V RCP	68	LF		
58	D-701-3	12 inch DIP	85	LF		
59	D-701-4	12 inch DIP in Existing PCC Pavement	62	LF		
60	D-701-5	18 inch Class III RCP	534	LF		
61	D-701-6	18 inch Class V RCP	283	LF		
62	D-701-7	24 inch Class III RCP	546	LF		
63	D-701-8	24 inch Class V RCP	107	LF		
64	D-701-9	30 inch Class V RCP	391	LF		
65	D-701-10	36 inch Class V RCP	306	LF		
66	D-701-11	42 inch Class V RCP	153	LF		
67	D-701-12	54 inch Class III RCP	234	LF		
68	D-751-1	Type C Inlet	9	EA		
69	D-751-2	Type D Inlet	1	EA		
70	D-751-3	Type 4 Airfield Inlet	1	EA		
71	D-751-4	Trench Drain in Existing PCC Pavement	20	LF		
72	D-751-5	Airfield Trench Drain	551	LF		
73	D-751-6	Airfield Trench Drain Inlet	6	EA		
74	D-751-7	Airfield Storm Drain Manhole	6	EA		
75	D-751-8	Standard Storm Drain Manhole	3	EA		
76	D-751-9	MES (4:1) for 24 inch RCP	1	EA		
77	D-751-10	Concrete Flared End Section for 54" RCP	1	EA		
78	D-751-11	15" Flap Gate Installed in Drainage Structure	1	EA		
79	D-751-12	24" Flap Gate Installed in Drainage Structure	1	EA		
80	D-751-13	36" Flap Gate Installed in Drainage Structure	1	EA		
81	D-751-14	42" Flap Gate Installed in Drainage Structure	1	EA		



**Bid Schedule**  
**Construct West Apron Expansion and Infrastructure at VPS**  
**Destin - Fort Walton Beach Airport**



Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Amount
82	D-751-15	Conc. Box and Pad for Water Main Flush Station	1	LS		
83	FDOT-520	Concrete Curb, Type D	2,938	LF		
84	FDOT-522	4" Concrete Sidewalk	347	SY		
85	FDOT-530	Rubble Riprap	342	SY		
86	FDOT-570-1	Sodding	2377	SY		
87	FDOT-570-2	Performance Turf	13180	SY		
88	FDOT-700-1	Stop Sign and Post	6	EA		
89	FDOT-700-2	18"x24" Sign Panel Mounted on Light Pole or Column	24	EA		
90	FDOT-700-3	Single Sided ADA Accessible Parking Space Sign	2	EA		
91	FDOT-700-4	Double Sided ADA Accessible Parking Space Sign	2	EA		
92		Bollards	6	EA		
93	T-905	Topsoil	4,862	CY		
94	02606-1	Standard Sanitary Sewer Manhole	3	EA		
95	02606-2	Aircraft Rated Sanitary Sewer Manhole	3	EA		
96		Lavatory Cart Dump Station Inlet, including concrete apron and 6" PVC Riser and Fittings	2	LS		
97	15051-1	8" PVC Gravity Sanitary Sewer Pipe	1188	LF		
98	15051-2	2" PVC Force Main	80	LF		
99	15051-3	6" PVC Force Main	125	LF		
100	15051-4	6" PVC Water Main	94	LF		
101	15051-5	12" PVC Water Main	1275	LF		
102	15051-6	1" Polyethylene (HDPE) Tubing	260	LF		
103	15100-1	Fire Hydrant & Gate Valve Assembly	2	EA		
104	15100-2	Hose Bib Assembly to include concrete filled steel bollard pipe, water line riser pipe, hose rack and painting of the base post, complete and in place	2	EA		
105	15100-3	6" Gate Valve	1	EA		
106	15100-4	12" Gate Valve	3	EA		
107	32 33 17	Wastewater Lift Station	1	LS		
108		Pre- Emergent Herbicide-2 applications & spot spray (mulch areas)	1	LS		
109		Directional Bore- 4"	96	LF		
110		Directional Bore- 6"	48	LF		
111		Sch 40 PVC Sleeving	770	LF		
112		Irrigation 3" RPZ Backflow w/Cover, Ball & Master Valves, POC, Etc.	1	LS		
113		Irrigation- Hunter Pro-C 12 Station Controller	1	LS		
114		Irrigation Zones- ICV Valve, Wiring, Pipe, Heads, Fittings, Etc.	11	EA		
115		Tree - October Glory Maple 45 Gal. 10'-12' Ht. (includes staking)	8	EA		
116		Tree- Duraheat River Birch 45 Gal. 10'-12' Ht. (includes staking)	11	EA		
117		Tree- Little Gem Magnolia 45 Gal. 7'-8' Ht. (includes staking)	9	EA		
118		Tree- Sand Live Oak 2" Cal min. 11'-12' Ht. (includes staking)	29	EA		
119		Tree- Shumard Oak 3" Cal. Min. 12'-14' Ht. (includes staking)	6	EA		
120		Centipede Sod- labor & material- irrigated areas per plan	42,044	SF		
121		Centipede Sod Unit Price- for additional disturbed areas if requested	1	SF		
122		Pinestraw Mulch for Tree Circles	1	LS		



**Bid Schedule**  
**Construct West Apron Expansion and Infrastructure at VPS**  
**Destin - Fort Walton Beach Airport**



Item No.	Spec. No.	Item Description	Quantity	Unit	Unit Price	Amount
123		Hardscape- Fido & Me Fountain Ultrasite-PBARK-498 w/ Labor	1	EA		
124		Hardscape-6 Ft. Bench Ultrasite-PBARK-940S-P6 w/ Labor	2	EA		
125		Hardscape- Trash Receptacle Ultrasite PL-32, FTR-32-08, IG KIT	2	EA		
126		Hardscape- Pet Waste Station Ultrasite PBARK-488, IG KIT w/ Labor	1	EA		
127		Hardscape- 8'x8' Cantilevered Umbrella Ultrashade M-Shadow w/ Labor	1	EA		
128		Hardscape- "Pet Relief Area" Post Sign 5'-6' O.A. Ht. w/ Labor	2	EA		
129		Maintenance- 1 Year Maintenance & Warranty		LS		
130		Covered Walkway (Includes Canopy Structure, Foundations, Walkway Lighting and 4" Sidewalk)	1	LS		
131		Bus Shelter (Includes Canopy Structure, Foundations, Walkway Lighting and 4" Sidewalk)	2	LS		
132	L-105-1	Electrical Demolition	1	LS		
133	L-108-1	Cable - L-824 5kV, #8 AWG Type C	2640	LF		
134	L-108-2	Counterpoise with Conduit/Duct	1305	LF		
135	L-110-1	1W-2" PVC Direct-Bury	490	LF		
136	L-110-2	1W-2" PVC Concrete-Encased	815	LF		
137	L-125-1	High Mast Light Pole & Foundation	6	EA		
138	L-125-2	High Mast Fixture	12	EA		
139	L-125-3	Elevated LED MITLs	6	EA		
140	L-260521	Panelboard Modifications	1	LS		
141	L-260521	GSE Rack & Power Center	1	LS		
142	L-260521	Fiber Optic Cable	330	LF		
143	L-260521	Cat-6 Cable	140	LF		
144	L-260521	2-#12 AWG THWN-2, W/G	660	LF		
145	L-260521	2-#10 AWG THWN-2, W/G	6090	LF		
146	L-260521	#10 AWG GND	230	LF		
147	L-260521	#6 AWG THWN-2	460	LF		
148	L-260521	#2 AWG THWN-2	2100	LF		
149	L-260521	#2 AWG GND	50	LF		
150	L-260521	#1 AWG THWN-2	4960	LF		
151	L-260521	#1 AWG GND	1240	LF		
152	L-260521	3/4" PVC in Canopy Structure	500	LF		
153	L-260541	1" PVC CE Under Pavement	3820	LF		
154	L-260541	1" PVC DB in Soil	2020	LF		
155	L-260541	2" PVC DB in Soil	180	LF		
156	L-260541	2-1/2" PVC DB in Soil	1250	LF		
157	L-260541	Handholes	19	EA		
158	L-265600	Parking Fixture, Pole and Foundation	34	EA		
159	L-265600	Wall-Mount, Bus Stations	4	EA		
160	L-265600	Canopy Lights	26	EA		
161	L-330523	Directional Bore, 1W-2"dia.	650	LF		
162	L-330523	Directional Bore, 2W-2"dia.	290	LF		

**TOTAL AMOUNT BID:**

If the Contractor fails to meet the contract goal established in Section 7 above, the following information must be submitted with the bid ~~prior to contract award~~ to assist the owner in determining whether or not the contractor made acceptable good faith efforts to meet the contract goal. This information (when applicable), as well as the DBE information, should be submitted as specified in Section 9 above. Use the “Statement of Good Faith Efforts” form provided herein.

Suggested guidance for use in determining if good faith efforts were made by a contractor are included in 49 CFR Part 26.

A list of the efforts that a contractor may make and the owner may use in making a determination as to the acceptability of a contractor's efforts to meet the goal as included in 49 CFR Part 26 are as follows:

- a. Whether the contractor attended any pre-solicitation or pre-bid meetings that were scheduled by the recipient to inform DBE's of contracting and subcontracting opportunities;
- b. Whether the contractor advertised in general circulation, trade association, and minority-focus media concerning the subcontracting opportunities;
- c. Whether the contractor provided written notice to a reasonable number of specific DBE's that their interest in the contract was being solicited in sufficient time to allow the DBE's to participate effectively;
- d. Whether the contractor followed up initial solicitations of interest by contacting DBE's to determine with certainty whether the DBE's were interested;
- e. Whether the contractor selected portions of work to be performed by DBE's in order to increase the likelihood of meeting the DBE goal (including, where appropriate, breaking down contracts into economically feasible units to facilitate DBE participation);
- f. Whether the contractor provided interested DBE's with adequate information about the plans, specifications, and requirements of the contract;
- g. Whether the contractor negotiated in good faith with interested DBE's, not rejecting DBE's as unqualified without sound reasons based on a thorough investigation of their capabilities.
- h. Whether the contractor made efforts to assist interested DBE's in obtaining bonding, lines of credit, or insurance required by the recipient or contractor;  
and
- i. Whether the contractor effectively used the services of available minority community organizations; minority contractors' groups; local and state Federal Minority Business Assistance Offices; and other organizations that provide assistance in the recruitment and placement of DBE's.

**NOTE:** The nine items set forth above are merely suggested criteria and the owner may specify that you submit information on certain other actions a contractor took to secure DBE participation in an effort to meet the goals. A contractor may also submit to the owner other information on efforts to meet the goals.

2. **CONTRACTOR ASSURANCE** - The bidder hereby assures that he will meet one of the following as appropriate:

- a. The DBE participation goal as established in ~~the General Conditions~~ Section 7 on page BF-29.
- b. The DBE participation percentage as shown in Section 9, which was submitted as a condition of contract award.

Agreements between bidder/proposer and a DBE in which the DBE promises not to provide subcontracting quotations to other bidders/proposers are prohibited. The bidder shall make a good faith effort to replace a DBE subcontract that is unable to perform successfully with another DBE subcontractor. Substitution must be coordinated and approved by the owner.

The bidder shall establish and maintain records and submit regular reports, as required, which will identify and assess progress in achieving DBE subcontract goals and other DBE affirmative action efforts.

3. **PROMPT PAYMENT** - The prime contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than **10** days from the receipt of each payment the prime contractor receives from the owner. The prime contractor agrees further to return retainage payments to each subcontractor within **10** days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of the owner. This clause applies to both DBE and non-DBE subcontractors.

## DBE STATEMENT OF GOOD FAITH EFFORTS

BIDDER: \_\_\_\_\_

DATE: \_\_\_\_\_

This form is to be completed if bidder fails to achieve the DBE goals established for this project. The bidder is allowed to use an alternate method that demonstrates the good faith efforts made to meet the goals established as long as all of the requested information is included. Failure to include all requested information shall result in the bid being determined as nonresponsive to the DBE requirements.

The following list is not intended to be exclusive or exhaustive and the City will look not only at the different kinds of efforts the bidder has made, but also the quality, quantity, intensity and timeliness of those efforts. It is the responsibility of the bidder to exercise good faith efforts. Any act or omission by the City shall not relieve the bidder of this responsibility.

Criteria listed below are excerpted from Appendix A of 49 CFR93, as amended. A response is required to address each cited paragraph. Additional pages may be added as necessary.

1. **Attendance at Pre-Bid conference, if held:**

\_\_\_ Yes    \_\_\_ No    \_\_\_ Not Held

2. **Whether and when the bidder provided written notice to all certified DBE's listed on the Florida Department of Transportation's BizNet website that perform the type of work to be subcontracted and advising the DBE's of the specific work the bidder intend to subcontract; that their interest in the contract is being solicited; and how to obtain information for the review and inspection of contract plans and specifications.**

**All letters from bidders to prospective DBE subcontractors must be post marked or fax recorded a minimum of 12 calendar days prior to bid opening.**

- Provide complete list of all DBE's solicited.
- Provide **DATE** letters were mailed (DBE's will be canvassed as to who sent them letters and what date they were received.) Provide a copy of solicitation and all other letters sent to DBE's. Recommended information in your solicitation letter can include, but not limited to, the following:
  - Project specific information.
  - Your willingness to assist with supply purchases.
  - Bonding requirements of your firm.
  - Any assistance your firm will be giving regarding bonding requirements, lines of credit and insurance requirements.
  - Availability of specifications and plans through your office.
  - Best time to reach you by phone (DBE firms will be canvassed regarding your responsiveness to their calls and project information they received from your firm.)
  - Bid opening date and all addendum information.



- Your requirements/time frames/payment schedules.

Attachment 3.A may be used to record the information required to show compliance with this section.

3. **Whether the bidder selected feasible portions of work to be performed by DBE's, including, where appropriate, breaking contracts or combining elements of work into feasible units. The ability of the bidder to perform the work with its own work force will not in itself excuse a contractor from making positive efforts to meet the established goals.**

If appropriate, detail any subcontracting category that you have broken down to assist DBE firms and list firms that have been made aware of this reduced scope.

<u>Subcontracting Category</u>	<u>DBE Firm</u>
_____	_____
_____	_____
_____	_____
_____	_____

4. **Whether the bidder considered all quotations received from DBE's and for those quotations not accepted, the bidder shall provide an explanation of why the DBE will not be used during the course of the contract. Receipt of lower quotation from non-DBE will not in itself excuse a bidder's failure to meet project goals.**

List all DBE firms who quoted this project; the amount quoted, and the successful subcontractor (if not the DBE firm) and their quote:

<u>Name of DBE</u>	<u>DBE's Quote vs.</u>	<u>Name of non-DBE Subcontractor Chosen</u>	<u>Subcontractor's Quote</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

5. **Whether the bidder provided interested DBE's assistance in reviewing the contract plans and specifications.**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Name the DBE firms provided assistance and describe how your firm provided such assistance.**

---

---

6. **Whether the bidder assisted interested DBE firms in obtaining required bonding, lines of credit or insurance if such assistance was necessary.**

If the project was above \$200,000 or exempt from the County's Bond Waiver Program, name the DBE's assisted and describe the assistance provided.

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7. **Whether the bidder advertised in general circulation, trade association, and/or minority/women - focus media concerning the subcontracting opportunities**

s.

List which papers carried your ad and attach a copy of the ad.

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8. **Whether the bidders followed up initial solicitations of interest by contacting DBE's to determine with certainty whether the DBE was interested.**

Name the DBE's you followed up with and describe your follow up efforts.

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9. **Whether the bidder negotiated in good faith with interested DBE's, not rejecting DBE's as unqualified without sound reasons based on a thorough investigation of their capabilities.**

a) Provide a detailed statement of reasons why subcontracts were not entered into with a sufficient number of DBE's to meet the established goals.

---

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b) Provide a list of DBE subcontractors you deemed unqualified and provide an explanation for the construction you reached.

---

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c) For those DBE subcontractors contacted but determined to be unavailable, provide either:

- i) a signed letter to the bidder from the DBE stating they are unavailable;  
**or**
- ii) a statement from the bidder that the DBE subcontractor refused to submit a letter after reasonable requests; and detailed statement from the Bidder of the reasons for the bidder's conclusion.

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10. **Whether the bidder effectively used the services of available minority/women community organizations; minority/women contractors' groups; local, state and federal minority/women business assistance offices; and other organizations that provide assistance in the recruitment and placement of minority/women business enterprises.**

List minority/women organizations contacted.  
(A minimum of three organizations must be contacted.)

Organization	Person Contacted	Date Contacted
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>

11. **Whether the bidder has utilized DBE subcontractors on other County contracts within the past six months.**

List any local projects your firm has performed in the last six (6) months, the DBE subcontractors utilized and the dollar value of the DBE's subcontractor.

<u>Project Name</u>	<u>DBE Firms Used</u>	<u>Dollar Value</u>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>

12. **Describe any additional efforts or circumstances which may assist the City in Determining Good Faith Efforts.**

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Geotechnical Exploration Report  
VPS Airport Terminal Expansion  
Valparaiso, Okaloosa County, Florida

Prepared for

Infrastructure Consulting and Engineering  
5550 West Idlewild Avenue, Suite 102  
Tampa, Florida 33634

Prepared by

Professional Service Industries, Inc.  
175 South A Street  
Pensacola, Florida 32502

August 23, 2018

PSI Project 07832578

A handwritten signature in black ink, appearing to read "Phil Kauzlarich".

Phil Kauzlarich, P.E.  
Project Engineer  
Florida License No. 75599

A handwritten signature in blue ink, appearing to read "Lloyd T. Lasher, Jr.".

Lloyd T. Lasher, Jr., P.E.  
Principal Consultant  
Florida License No. 56794

## TABLE OF CONTENTS

<b>1</b>	<b>PROJECT INFORMATION .....</b>	<b>3</b>
1.1	PROJECT DESCRIPTION.....	3
1.2	PURPOSE AND SCOPE OF WORK.....	3
<b>2</b>	<b>FIELD EXPLORATION AND LABORATORY TESTING .....</b>	<b>4</b>
2.1	FIELD EXPLORATION.....	4
2.2	LABORATORY TESTING.....	4
<b>3</b>	<b>SITE AND SUBSURFACE CONDITIONS .....</b>	<b>5</b>
3.1	SUBSURFACE CONDITIONS .....	5
3.2	GROUNDWATER.....	5
<b>4</b>	<b>REPORT LIMITATIONS .....</b>	<b>6</b>

### FIGURES

FIGURE 1 – Boring Location Plan

Boring Logs

Laboratory Results





## **1 PROJECT INFORMATION**

### **1.1 PROJECT DESCRIPTION**

We understand that infrastructure Consulting and Engineering plans to construct a 5-position aircraft apron at the Destin-Fort Walton Beach Airport in Valparaiso, Florida, as shown on the Vicinity Map presented in the Appendix.

No engineering services were requested or performed for the proposed development. This report presents the findings of the soil borings and laboratory testing performed.

Should any of the above information be inconsistent with the planned construction, PSI requests that you contact us immediately to allow us to make any necessary modifications to this report.

### **1.2 PURPOSE AND SCOPE OF WORK**

The purpose of this exploration was to obtain information on the general subsurface soil and groundwater conditions at the proposed project site.

The following services were provided:

1. Executed a program of subsurface sampling and field testing which included:
  - a. Eighteen (18) soil test borings drilled in the new airplane parking area to a depth of 10 feet each below existing grade.
  - b. Twelve (12) cores of the existing asphalt paving with a hand auger to a depth of 5 feet below top of existing pavement.
2. Visually classified and stratified representative soil samples in the laboratory using the Unified Soil Classification System. Conducted a limited laboratory testing program to assist with soil classifications. Identified soil conditions at each boring location and formed an opinion of the site soil stratigraphy.



## **2 FIELD EXPLORATION AND LABORATORY TESTING**

### **2.1 FIELD EXPLORATION**

The approximate locations of our Standard Penetration Test (SPT) borings are shown on Sheet 1 in Appendix A. The boring locations were determined in the field by estimating distances from existing features identified on the plans provided and should be considered approximate.

The SPT borings were performed in general accordance with the procedures of ASTM D-1586. SPT samples were obtained at approximately 2-foot intervals to a depth of 10 feet and at approximately 5-foot depth intervals thereafter. Soil Samples were obtained in the SPT borings by driving a standard 2-inch (O.D.) split-spoon sampler a distance of 24 inches using a 140-lb hammer dropped from a height of 30 inches. The number of blows required to drive the standard split spoon sampler the middle 12 inches is known as the penetration resistance (N-value) measured in blows per foot (bpf). Penetration resistance values provide an indication of the relative density of granular soils, such as sand, and the relative consistency, of cohesive soils, such as clay or silt.

Samples from the SPT borings were placed in sealed containers and transported to PSI's soils and materials laboratory for further examination and testing. Upon completion of the SPT borings, the boreholes were backfilled to existing grade with soil cuttings. The results of the borings are presented in Appendix A in the form of soil profiles.

Included with the boring profiles is a legend describing the encountered soils in Unified Soil Classification System (USCS) format, measured groundwater levels and laboratory test results. The soil stratification presented is based on visual observation of the recovered samples, interpretation of field logs by a geotechnical engineer and the results of the laboratory testing. It should be noted that variations in the subsurface conditions are expected and may be encountered between and away from the boring. Also, whereas the individual boring logs indicate distinct strata breaks, the actual transition between the soil layers may be more gradual than shown on the soil profiles.

### **2.2 LABORATORY TESTING**

Representative samples of soil obtained from the borings were tested to determine physical and engineering properties. The laboratory testing program included determinations of natural moisture content, fines content, and California Bearing Ratio. The laboratory results are presented in Appendix A.





### **3 SITE AND SUBSURFACE CONDITIONS**

#### **3.1 SUBSURFACE CONDITIONS**

In general, the SPT borings performed at the site encountered very loose to medium dense clean to slightly silty sands (SP and SP-SM) to the maximum depth explored of about 10 feet below existing grade.

#### **3.2 GROUNDWATER**

Groundwater was not apparent at the time of drilling to the maximum depth explored of about 10 feet.

Groundwater conditions will vary with environmental changes and seasonal conditions, such as, the frequency and magnitude of rainfall patterns, as well as man-made influences, such as swales, drainage ponds, underdrains, stormwater collection systems and areas of covered soil (buildings, paved parking lots, sidewalks, etc.).



## 4 REPORT LIMITATIONS

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This company is not responsible for the conclusions, opinions or recommendations made by others based on these data.

The scope of our exploration was intended to evaluate soil conditions within the influence of the proposed pavements and does not include an evaluation of potential deep soil problems such as sinkholes. The analysis and recommendations submitted in this report are based upon the data obtained from the soil borings performed at the locations indicated and does not reflect any variations which may occur between or away from the borings. If any subsoil variations become evident during the course of this project, a re-evaluation of the recommendations contained in this report will be necessary after we have had an opportunity to observe the characteristics of the conditions encountered. The applicability of the report should also be reviewed in the event significant changes occur in the design, nature or location of the proposed construction.

The scope of our services does not include any environmental assessment or investigation for the presence or absence of hazardous or toxic materials in the soil, groundwater, or surface water within or beyond the site studied. Any statements in this report regarding odors, staining of soils, or other unusual conditions observed are strictly for the information of our client.





**BORING LOCATION PLAN**

SCALE: UNKNOWN

SCHMATIC PROVIDED BY INFRASTRUCTURE CONSULTING AND ENGINEERING

**LEGEND**

	APPROXIMATE LOCATION OF STANDARD PENETRATION TEST BORING
	APPROXIMATE LOCATION OF PAVEMENT CORE

GEOTECHNICAL ENGINEERING SERVICES  
**VPS AIRPORT TERMINAL EXPANSION**  
 VALPARAISO, OKALOOSA COUNTY, FLORIDA

**psi** Information  
 To Build On  
 Engineering • Consulting • Testing

DRAWN: PDK	SCALE: NOTED	PROJ. NO: 0783-2578
CHKD: LL	DATE: 8/22/2018	SHEET: 1

DATE STARTED: 7/30/18  
 DATE COMPLETED: 7/30/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-01**  
 Water ▽ While Drilling GNE feet  
 ▾ Upon Completion GNE feet  
 ▽ Delay N/A

**BORING LOCATION:**

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STRENGTH, tsf	Additional Remarks
0						ASPHALT: 2-1/4 Inches AGGREGATE BASE: 8 Inches	ASPHALT BASE				
						Brown Medium Dense Fine-Grained SAND with Silt	SP-SM	N=19			
						Tan/Brown Very Loose to Loose Fine-Grained SAND	SP	N=14	4		-200 = 5.8%
5							SP	N=4			
							SP	N=6			
10							SP	N=6			
						Boring Terminated at 10 Feet					



Professional Service Industries, Inc.  
 175 S. "A" Street  
 Pensacola, FL 32502  
 Telephone: (850) 434-1000

PROJECT NO.: 07832578  
 PROJECT: VPS Airport Expansion  
 LOCATION: Valparaiso  
 Florida

DATE STARTED: 7/30/18  
 DATE COMPLETED: 7/30/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-02**  
 Water ▽ While Drilling GNE feet  
 ▾ Upon Completion GNE feet  
 ▿ Delay N/A

BORING LOCATION:

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks	
									N in blows/ft ⊙			
0						Brown Very Loose to Loose Fine-Grained SAND with Silt			Moisture, % X Moisture ⊙ PL + LL			
							SP-SM	N=7	3			-200 = 6.0%
						Tan/Brown Very Loose to Loose Fine-Grained SAND						
	5						SP	N=3				
								N=4				
								N=7				
	10					Boring Terminated at 10 Feet						



Professional Service Industries, Inc.  
 175 S. "A" Street  
 Pensacola, FL 32502  
 Telephone: (850) 434-1000

PROJECT NO.: 07832578  
 PROJECT: VPS Airport Expansion  
 LOCATION: Valparaiso  
 Florida

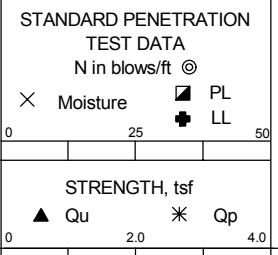
DATE STARTED: 7/30/18  
 DATE COMPLETED: 7/30/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-03**  
 Water ▽ While Drilling GNE feet  
 ▾ Upon Completion GNE feet  
 ▽ Delay N/A

BORING LOCATION:

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STRENGTH, tsf	Additional Remarks
0						Brown Loose to Medium Dense Fine-Grained SAND with Silt	SP-SM	N=11	○		
						Tan/Brown Very Loose to Loose Fine-Grained SAND		N=9	○		
5							SP	N=4	○		
								N=5	○		
								N=7	○		
								3	×		-200 = 2.4%
10						Boring Terminated at 10 Feet					



Professional Service Industries, Inc.  
 175 S. "A" Street  
 Pensacola, FL 32502  
 Telephone: (850) 434-1000

PROJECT NO.: 07832578  
 PROJECT: VPS Airport Expansion  
 LOCATION: Valparaiso  
 Florida

DATE STARTED: 7/30/18  
 DATE COMPLETED: 7/30/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-04**  
 Water ▽ While Drilling GNE feet  
 ▾ Upon Completion GNE feet  
 ▹ Delay N/A

BORING LOCATION:

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STRENGTH, tsf	Additional Remarks
0						Brown Loose Fine-Grained SAND with Silt					
							SP-SM	N=10	○		
								N=5	○		
5						Tan/Brown Very Loose to Loose Fine-Grained SAND					
							SP	N=3	○		
								N=4	⊗		-200 = 1.7%
								N=5	○		
10						Boring Terminated at 10 Feet					



Professional Service Industries, Inc.  
 175 S. "A" Street  
 Pensacola, FL 32502  
 Telephone: (850) 434-1000

PROJECT NO.: 07832578  
 PROJECT: VPS Airport Expansion  
 LOCATION: Valparaiso  
 Florida



DATE STARTED: 7/30/18  
 DATE COMPLETED: 7/30/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-05**  
 Water ▽ While Drilling GNE feet  
 ▽ Upon Completion GNE feet  
 ▽ Delay N/A

BORING LOCATION:

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks
									N in blows/ft ⊙		
0						Brown Loose to Medium Dense Fine-Grained SAND with Silt	SP-SM	N=10	⊙	Moisture, % 0 25 50	Strength, tsf ▲ Qu * Qp 2.0 4.0
						Tan/Brown Very Loose to Loose Fine-Grained SAND					
5								N=3	⊙		
								N=5	⊙		
10						Boring Terminated at 10 Feet		N=7	⊙		



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 175 S. "A" Street  
 Pensacola, FL 32502  
 Telephone: (850) 434-1000

PROJECT NO.: 07832578  
 PROJECT: VPS Airport Expansion  
 LOCATION: Valparaiso  
 Florida



DATE STARTED: 7/30/18  
 DATE COMPLETED: 7/30/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-06**  
 Water ▽ While Drilling GNE feet  
 ▽ Upon Completion GNE feet  
 ▽ Delay N/A

BORING LOCATION:

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA				Additional Remarks	
									N in blows/ft ⊙		STRENGTH, tsf			
0						Brown Very Loose to Loose Fine-Grained SAND with Silt	SP-SM	N=6	⊙					
							Tan/Brown Very Loose to Loose Fine-Grained SAND		N=3	⊙				
5								SP	N=3	⊙				
								N=4	⊙					
								N=7	⊙					
10						Boring Terminated at 10 Feet								



Professional Service Industries, Inc.  
 175 S. "A" Street  
 Pensacola, FL 32502  
 Telephone: (850) 434-1000

PROJECT NO.: 07832578  
 PROJECT: VPS Airport Expansion  
 LOCATION: Valparaiso  
 Florida

DATE STARTED: 7/26/18  
 DATE COMPLETED: 7/26/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-07**  
 Water ▽ While Drilling GNE feet  
 ▽ Upon Completion GNE feet  
 ▽ Delay N/A

BORING LOCATION:

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks	
									N in blows/ft ⊙			
0						Brown Very Loose to Loose Fine-Grained SAND with Silt	SP-SM	N=7	Moisture, %	Strength, tsf		
							Tan/Brown Loose Fine-Grained SAND		N=4			
5								SP	N=7			
								N=7				
								N=5				
10						Boring Terminated at 10 Feet						



Professional Service Industries, Inc.  
 175 S. "A" Street  
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 Telephone: (850) 434-1000

PROJECT NO.: 07832578  
 PROJECT: VPS Airport Expansion  
 LOCATION: Valparaiso  
 Florida



DATE STARTED: 7/26/18  
 DATE COMPLETED: 7/26/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-09**  
 Water ▽ While Drilling GNE feet  
 ▾ Upon Completion GNE feet  
 ▹ Delay N/A

BORING LOCATION:

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STRENGTH, tsf	Additional Remarks
0						Brown Loose Fine-Grained SAND with Silt					
							SP-SM	N=8			
								N=7	5		-200 = 3.0%
						Tan/Brown Loose Fine-Grained SAND					
5							SP	N=6			
								N=8			
								N=9			
10						Boring Terminated at 10 Feet					



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PROJECT NO.: 07832578  
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 LOCATION: Valparaiso  
 Florida

DATE STARTED: 7/26/18  
 DATE COMPLETED: 7/26/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-10**  
 Water ▽ While Drilling GNE feet  
 ▾ Upon Completion GNE feet  
 ▽ Delay N/A

BORING LOCATION:

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STRENGTH, tsf	Additional Remarks
0						Brown Loose Fine-Grained SAND with Silt					
							SP-SM	N=9	5		-200 = 4.4%
						Tan/Brown Very Loose to Loose Fine-Grained SAND		N=6			
5							SP	N=2			
								N=6			
								N=9			
10						Boring Terminated at 10 Feet					



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PROJECT NO.: 07832578  
 PROJECT: VPS Airport Expansion  
 LOCATION: Valparaiso  
 Florida

DATE STARTED: 7/26/18  
 DATE COMPLETED: 7/26/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-11**  
 Water ▽ While Drilling GNE feet  
 ▾ Upon Completion GNE feet  
 ▽ Delay N/A

BORING LOCATION:

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STRENGTH, tsf	Additional Remarks
0						Brown Loose Fine-Grained SAND with Silt	SP-SM	N=9	⊙		
						Tan/Brown Loose Fine-Grained SAND	SP	N=6	⊙		
5								N=6	⊙		
								N=6	⊙		
								N=10	⊙	×	-200 = 0.9%
10						Boring Terminated at 10 Feet					



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PROJECT NO.: 07832578  
 PROJECT: VPS Airport Expansion  
 LOCATION: Valparaiso  
 Florida

DATE STARTED: 7/26/18  
 DATE COMPLETED: 7/26/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A      OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK      LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-12**

Water

- ▽ While Drilling      GNE feet
- ▼ Upon Completion      GNE feet
- ▽ Delay      N/A

**BORING LOCATION:**

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks	
									N in blows/ft ©			
0						Brown Loose Fine-Grained SAND with Silt	SP-SM	N=6	Moisture: %	Strength: tsf		
							Tan/Brown Loose Fine-Grained SAND	SP	N=6			
5									N=6			
									N=7			
10						Boring Terminated at 10 Feet		N=7				



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PROJECT NO.: 07832578  
 PROJECT: VPS Airport Expansion  
 LOCATION: Valparaiso  
 Florida

DATE STARTED: 7/30/18  
 DATE COMPLETED: 7/30/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-13**  
 Water ▽ While Drilling GNE feet  
 ▾ Upon Completion GNE feet  
 ▹ Delay N/A

BORING LOCATION:

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STRENGTH, tsf	Additional Remarks
0	0					ASPHALT: 5-1/2 Inches	ASPHALT				
						Brown Very Loose to Loose Fine-Grained SAND with Silt	SP-SM	N=10	10		
						Tan/Brown Very Loose to Loose Fine-Grained SAND	SP	N=5	5		
								N=4	4		
								N=5	5		
								N=6	6		
	10					Boring Terminated at 10 Feet					



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 LOCATION: Valparaiso  
 Florida



DATE STARTED: 7/30/18  
 DATE COMPLETED: 7/30/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-14**  
 Water ▽ While Drilling GNE feet  
 ▾ Upon Completion GNE feet  
 ▽ Delay N/A

BORING LOCATION:

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA				Additional Remarks
									N in blows/ft ⊙		STRENGTH, tsf		
0						Brown Loose to Medium Dense Fine-Grained SAND with Silt	SP-SM	N=12	Moisture, %	PL	LL		
							Tan/Brown Loose Fine-Grained SAND		N=10	Qu	Qp		
5								SP	N=5				
								N=6					
								N=8					
10						Boring Terminated at 10 Feet							



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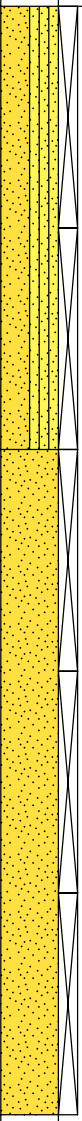
PROJECT NO.: 07832578  
 PROJECT: VPS Airport Expansion  
 LOCATION: Valparaiso  
 Florida

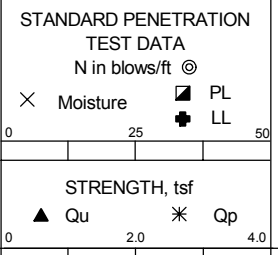
DATE STARTED: 7/30/18  
 DATE COMPLETED: 7/30/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-15**  
 Water ▽ While Drilling GNE feet  
 ▾ Upon Completion GNE feet  
 ▽ Delay N/A

BORING LOCATION:

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STRENGTH, tsf	Additional Remarks
0						Brown Loose to Medium Dense Fine-Grained SAND with Silt	SP-SM	N=12	○		
						Tan/Brown Loose Fine-Grained SAND		N=9	○		
5							SP	N=6	○		
								N=5	○		
								N=8	○		
10						Boring Terminated at 10 Feet					



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PROJECT NO.: 07832578  
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 LOCATION: Valparaiso  
 Florida

DATE STARTED: 7/30/18  
 DATE COMPLETED: 7/30/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-16**  
 Water ▽ While Drilling GNE feet  
 ▾ Upon Completion GNE feet  
 ▽ Delay N/A

BORING LOCATION:

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks	
									N in blows/ft ⊙			
0						Brown Very Loose to Loose Fine-Grained SAND with Silt	SP-SM	N=7	Moisture, %	Strength, tsf		
							Tan/Brown Loose Fine-Grained SAND		N=4	0 25 50	▲ Qu * Qp	
5								SP	N=5	4		
								N=6				
10						Boring Terminated at 10 Feet		N=9				



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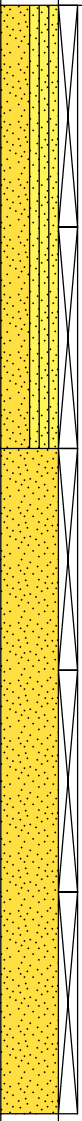
PROJECT NO.: 07832578  
 PROJECT: VPS Airport Expansion  
 LOCATION: Valparaiso  
 Florida

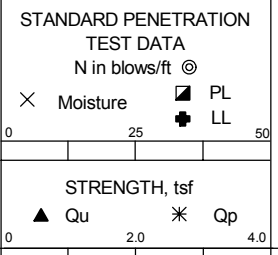
DATE STARTED: 7/30/18  
 DATE COMPLETED: 7/30/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-17**  
 Water ▽ While Drilling GNE feet  
 ▾ Upon Completion GNE feet  
 ▽ Delay N/A

BORING LOCATION:

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STRENGTH, tsf	Additional Remarks
0						Brown Loose Fine-Grained SAND with Silt					
							SP-SM	N=9	○		
								N=6	○		
						Tan/Brown Loose Fine-Grained SAND					
5								N=5	○		
							SP	N=7	○	3	
								N=10	○		
10						Boring Terminated at 10 Feet					



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 LOCATION: Valparaiso  
 Florida

DATE STARTED: 7/30/18  
 DATE COMPLETED: 7/30/18  
 COMPLETION DEPTH: 10.0 ft  
 BENCHMARK: N/A  
 ELEVATION: N/A  
 LATITUDE:  
 LONGITUDE:  
 STATION: N/A OFFSET: N/A  
 REMARKS: \*GNE = Groundwater Not Encountered

DRILL COMPANY: ERG, Inc.  
 DRILLER: BK LOGGED BY: PDK  
 DRILL RIG: Kinco  
 DRILLING METHOD: Solid Flight Auger  
 SAMPLING METHOD: 2-in SS  
 HAMMER TYPE: Safety  
 EFFICIENCY: N/A  
 REVIEWED BY:

**BORING B-18**  
 Water ▽ While Drilling GNE feet  
 ▾ Upon Completion GNE feet  
 ▽ Delay N/A

BORING LOCATION:

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA				Additional Remarks
									N in blows/ft ⊙		STRENGTH, tsf		
0						Brown Very Loose to Loose Fine-Grained SAND with Silt	SP-SM	N=5	⊙				
						Tan/Brown Loose to Medium Dense Fine-Grained SAND		N=3	⊙				
5							SP	N=5	⊙				
								N=7	⊙				
10						Boring Terminated at 10 Feet		N=11	⊙				



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PROJECT NO.: 07832578  
 PROJECT: VPS Airport Expansion  
 LOCATION: Valparaiso  
 Florida

**DATE STARTED:** 8/1/18  
**DATE COMPLETED:** 8/1/18  
**COMPLETION DEPTH:** 5.0 ft  
**BENCHMARK:** N/A  
**ELEVATION:** N/A  
**LATITUDE:**  
**LONGITUDE:**  
**STATION:** N/A **OFFSET:** N/A  
**REMARKS:** \*GNE = Groundwater Not Encountered

**DRILL COMPANY:** PSI, Inc.  
**DRILLER:** TC **LOGGED BY:** PDK  
**DRILL RIG:** Hand Auger  
**DRILLING METHOD:** Hand Auger  
**SAMPLING METHOD:**  
**HAMMER TYPE:**  
**EFFICIENCY:** N/A  
**REVIEWED BY:**

## BORING C-02

**Water**  
 While Drilling GNE feet  
 Upon Completion GNE feet  
 Delay N/A

**BORING LOCATION:**

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	STANDARD PENETRATION TEST DATA				Additional Remarks
								N in blows/ft ©				
								Moisture, %	Moisture	PL	LL	
									▲ Qu	* Qp		
0						ASPHALT: 3 Inches GRAVEL BASE: 6 Inches	ASPHALT BASE					
						Brown Fine-Grained SAND with Silt	SP-SM					
5						Boring Terminated at 5 Feet						



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**PROJECT NO.:** 07832578  
**PROJECT:** VPS Airport Expansion  
**LOCATION:** Valparaiso  
 Florida

**DATE STARTED:** 8/1/18  
**DATE COMPLETED:** 8/1/18  
**COMPLETION DEPTH:** 5.0 ft  
**BENCHMARK:** N/A  
**ELEVATION:** N/A  
**LATITUDE:**  
**LONGITUDE:**  
**STATION:** N/A **OFFSET:** N/A  
**REMARKS:** \*GNE = Groundwater Not Encountered

**DRILL COMPANY:** PSI, Inc.  
**DRILLER:** TC **LOGGED BY:** PDK  
**DRILL RIG:** Hand Auger  
**DRILLING METHOD:** Hand Auger  
**SAMPLING METHOD:**  
**HAMMER TYPE:**  
**EFFICIENCY:** N/A  
**REVIEWED BY:**

# BORING C-03

**Water**  
 While Drilling GNE feet  
 Upon Completion GNE feet  
 Delay N/A

**BORING LOCATION:**

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ©	Additional Remarks
0						ASPHALT: 3 Inches GRAVEL BASE: 6 Inches	ASPHALT BASE	<input type="checkbox"/> Moisture <input type="checkbox"/> PL <input type="checkbox"/> LL	0 25 50 STRENGTH, tsf <input type="checkbox"/> Qu <input type="checkbox"/> Qp 0 2.0 4.0	
						Brown Fine-Grained SAND with Silt	SP-SM			
5						Boring Terminated at 5 Feet				



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**PROJECT NO.:** 07832578  
**PROJECT:** VPS Airport Expansion  
**LOCATION:** Valparaiso  
 Florida

**DATE STARTED:** 8/1/18 **DRILL COMPANY:** PSI, Inc.  
**DATE COMPLETED:** 8/1/18 **DRILLER:** TC **LOGGED BY:** PDK  
**COMPLETION DEPTH:** 5.0 ft **DRILL RIG:** Hand Auger  
**BENCHMARK:** N/A **DRILLING METHOD:** Hand Auger  
**ELEVATION:** N/A **SAMPLING METHOD:**  
**LATITUDE:** **HAMMER TYPE:**  
**LONGITUDE:** **EFFICIENCY:** N/A  
**STATION:** N/A **OFFSET:** N/A **REVIEWED BY:**  
**REMARKS:** \*GNE = Groundwater Not Encountered

# BORING C-04

**Water**  While Drilling GNE feet  
 Upon Completion GNE feet  
 Delay N/A

**BORING LOCATION:**

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft ©	Additional Remarks
0						ASPHALT: 3 Inches GRAVEL BASE: 4 Inches	ASPHALT BASE	<input type="checkbox"/> Moisture <input type="checkbox"/> PL <input type="checkbox"/> LL	STRENGTH, tsf <input type="checkbox"/> Qu <input type="checkbox"/> Qp	
						Brown Fine-Grained SAND with Silt	SP-SM			
5						Boring Terminated at 5 Feet				



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**PROJECT NO.:** 07832578  
**PROJECT:** VPS Airport Expansion  
**LOCATION:** Valparaiso  
 Florida



**DATE STARTED:** 8/1/18 **DRILL COMPANY:** PSI, Inc.  
**DATE COMPLETED:** 8/1/18 **DRILLER:** TC **LOGGED BY:** PDK  
**COMPLETION DEPTH:** 5.0 ft **DRILL RIG:** Hand Auger  
**BENCHMARK:** N/A **DRILLING METHOD:** Hand Auger  
**ELEVATION:** N/A **SAMPLING METHOD:**  
**LATITUDE:** **HAMMER TYPE:**  
**LONGITUDE:** **EFFICIENCY:** N/A  
**STATION:** N/A **OFFSET:** N/A **REVIEWED BY:**  
**REMARKS:** \*GNE = Groundwater Not Encountered

## BORING C-05

**Water**  
 While Drilling GNE feet  
 Upon Completion GNE feet  
 Delay N/A

**BORING LOCATION:**

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	STANDARD PENETRATION TEST DATA				Additional Remarks
								N in blows/ft ©				
								Moisture, %	Moisture	PL	LL	
									0	25	50	
									STRENGTH, tsf			
									▲ Qu	* Qp		
									0	2.0	4.0	
0						ASPHALT: 3 Inches	ASPHALT					
						GRAVEL BASE: 5 Inches	BASE					
						Brown Fine-Grained SAND with Silt	SP-SM					
5						Boring Terminated at 5 Feet						



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**PROJECT NO.:** 07832578  
**PROJECT:** VPS Airport Expansion  
**LOCATION:** Valparaiso  
 Florida

**DATE STARTED:** 8/2/18 **DRILL COMPANY:** PSI, Inc.  
**DATE COMPLETED:** 8/2/18 **DRILLER:** TC **LOGGED BY:** PDK  
**COMPLETION DEPTH:** 5.0 ft **DRILL RIG:** Hand Auger  
**BENCHMARK:** N/A **DRILLING METHOD:** Hand Auger  
**ELEVATION:** N/A **SAMPLING METHOD:**  
**LATITUDE:** **HAMMER TYPE:**  
**LONGITUDE:** **EFFICIENCY:** N/A  
**STATION:** N/A **OFFSET:** N/A **REVIEWED BY:**  
**REMARKS:** \*GNE = Groundwater Not Encountered

## BORING C-06

**Water**  
 While Drilling GNE feet  
 Upon Completion GNE feet  
 Delay N/A

**BORING LOCATION:**

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	STANDARD PENETRATION TEST DATA				Additional Remarks
								N in blows/ft @				
								Moisture, %	Moisture	PL	LL	
									0	25	50	
									STRENGTH, tsf			
									▲ Qu	* Qp		
									0	2.0	4.0	
0						ASPHALT: 8 Inches	ASPHALT					
						GRAVEL BASE: 7 Inches	BASE					
						Brown Fine-Grained SAND with Silt	SP-SM					
5						Boring Terminated at 5 Feet						



Professional Service Industries, Inc.  
 175 S. "A" Street  
 Pensacola, FL 32502  
 Telephone: (850) 434-1000

**PROJECT NO.:** 07832578  
**PROJECT:** VPS Airport Expansion  
**LOCATION:** Valparaiso  
 Florida

**DATE STARTED:** 8/2/18 **DRILL COMPANY:** PSI, Inc.  
**DATE COMPLETED:** 8/2/18 **DRILLER:** TC **LOGGED BY:** PDK  
**COMPLETION DEPTH:** 5.0 ft **DRILL RIG:** Hand Auger  
**BENCHMARK:** N/A **DRILLING METHOD:** Hand Auger  
**ELEVATION:** N/A **SAMPLING METHOD:**  
**LATITUDE:** **HAMMER TYPE:**  
**LONGITUDE:** **EFFICIENCY:** N/A  
**STATION:** N/A **OFFSET:** N/A **REVIEWED BY:**  
**REMARKS:** \*GNE = Groundwater Not Encountered

## BORING C-07

**Water**  
 ▽ While Drilling GNE feet  
 ▼ Upon Completion GNE feet  
 ▽ Delay N/A

**BORING LOCATION:**

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	STANDARD PENETRATION TEST DATA				Additional Remarks
								N in blows/ft ©				
								Moisture, %	Moisture	PL	LL	
									0	25	50	
									STRENGTH, tsf			
									▲ Qu	* Qp		
									0	2.0	4.0	
0						ASPHALT: 7.5 Inches	ASPHALT					
						GRAVEL BASE: 6 Inches	BASE					
						Brown Fine-Grained SAND with Silt	SP-SM					
5						Boring Terminated at 5 Feet						



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 Telephone: (850) 434-1000

**PROJECT NO.:** 07832578  
**PROJECT:** VPS Airport Expansion  
**LOCATION:** Valparaiso  
 Florida

**DATE STARTED:** 8/2/18 **DRILL COMPANY:** PSI, Inc.  
**DATE COMPLETED:** 8/2/18 **DRILLER:** TC **LOGGED BY:** PDK  
**COMPLETION DEPTH:** 5.0 ft **DRILL RIG:** Hand Auger  
**BENCHMARK:** N/A **DRILLING METHOD:** Hand Auger  
**ELEVATION:** N/A **SAMPLING METHOD:**  
**LATITUDE:** **HAMMER TYPE:**  
**LONGITUDE:** **EFFICIENCY:** N/A  
**STATION:** N/A **OFFSET:** N/A **REVIEWED BY:**  
**REMARKS:** \*GNE = Groundwater Not Encountered

# BORING C-08

**Water**  
 ▽ While Drilling GNE feet  
 ▼ Upon Completion GNE feet  
 ▽ Delay N/A

**BORING LOCATION:**

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	STANDARD PENETRATION TEST DATA				Additional Remarks	
								N in blows/ft ©					
								Moisture, %	STRENGTH, tsf				
								×	Moisture	▣	PL		
								+	LL				
								▲	Qu	*	Qp		
0						ASPHALT: 7.5 Inches	ASPHALT						
						GRAVEL BASE: 6 Inches	BASE						
						Brown Fine-Grained SAND with Silt	SP-SM						
5						Boring Terminated at 5 Feet							



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 Telephone: (850) 434-1000

**PROJECT NO.:** 07832578  
**PROJECT:** VPS Airport Expansion  
**LOCATION:** Valparaiso  
 Florida

**DATE STARTED:** 8/2/18 **DRILL COMPANY:** PSI, Inc.  
**DATE COMPLETED:** 8/2/18 **DRILLER:** TC **LOGGED BY:** PDK  
**COMPLETION DEPTH:** 5.0 ft **DRILL RIG:** Hand Auger  
**BENCHMARK:** N/A **DRILLING METHOD:** Hand Auger  
**ELEVATION:** N/A **SAMPLING METHOD:**  
**LATITUDE:** **HAMMER TYPE:**  
**LONGITUDE:** **EFFICIENCY:** N/A  
**STATION:** N/A **OFFSET:** N/A **REVIEWED BY:**  
**REMARKS:** \*GNE = Groundwater Not Encountered

## BORING C-09

**Water**  
 While Drilling GNE feet  
 Upon Completion GNE feet  
 Delay N/A

**BORING LOCATION:**

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	STANDARD PENETRATION TEST DATA				Additional Remarks
								N in blows/ft ©				
								Moisture, %	Moisture	PL	LL	
									▲ Qu	* Qp		
0						ASPHALT: 16 Inches	ASPHALT					
						GRAVEL BASE: 10 Inches	BASE					
						Brown Fine-Grained SAND with Silt	SP-SM					
5						Boring Terminated at 5 Feet						



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 Telephone: (850) 434-1000

**PROJECT NO.:** 07832578  
**PROJECT:** VPS Airport Expansion  
**LOCATION:** Valparaiso  
 Florida

**DATE STARTED:** 8/2/18 **DRILL COMPANY:** PSI, Inc.  
**DATE COMPLETED:** 8/2/18 **DRILLER:** TC **LOGGED BY:** PDK  
**COMPLETION DEPTH:** 5.0 ft **DRILL RIG:** Hand Auger  
**BENCHMARK:** N/A **DRILLING METHOD:** Hand Auger  
**ELEVATION:** N/A **SAMPLING METHOD:**  
**LATITUDE:** **HAMMER TYPE:**  
**LONGITUDE:** **EFFICIENCY:** N/A  
**STATION:** N/A **OFFSET:** N/A **REVIEWED BY:**  
**REMARKS:** \*GNE = Groundwater Not Encountered

## BORING C-10

**Water**  
 ▽ While Drilling GNE feet  
 ▼ Upon Completion GNE feet  
 ▽ Delay N/A

**BORING LOCATION:**

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	STANDARD PENETRATION TEST DATA				Additional Remarks
								N in blows/ft ©				
								Moisture, %	Moisture	PL	LL	
									▲ Qu	* Qp		
0						ASPHALT: 9 Inches	ASPHALT					
						GRAVEL BASE: 8 Inches	BASE					
						Brown Fine-Grained SAND with Silt	SP-SM					
5						Boring Terminated at 5 Feet						



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 Telephone: (850) 434-1000

**PROJECT NO.:** 07832578  
**PROJECT:** VPS Airport Expansion  
**LOCATION:** Valparaiso  
 Florida



**DATE STARTED:** 8/2/18 **DRILL COMPANY:** PSI, Inc.  
**DATE COMPLETED:** 8/2/18 **DRILLER:** TC **LOGGED BY:** PDK  
**COMPLETION DEPTH:** 5.0 ft **DRILL RIG:** Hand Auger  
**BENCHMARK:** N/A **DRILLING METHOD:** Hand Auger  
**ELEVATION:** N/A **SAMPLING METHOD:**  
**LATITUDE:** **HAMMER TYPE:**  
**LONGITUDE:** **EFFICIENCY:** N/A  
**STATION:** N/A **OFFSET:** N/A **REVIEWED BY:**  
**REMARKS:** \*GNE = Groundwater Not Encountered

# BORING C-12

**Water**  
 ▽ While Drilling GNE feet  
 ▼ Upon Completion GNE feet  
 ▽ Delay N/A

**BORING LOCATION:**

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	STANDARD PENETRATION TEST DATA				Additional Remarks
								N in blows/ft ©				
								Moisture, %	Moisture	PL	LL	
									▲ Qu	* Qp		
0						ASPHALT: 9.5 Inches	ASPHALT					
						GRAVEL BASE: 7.5 Inches	BASE					
						Brown Fine-Grained SAND with Silt	SP-SM					
5						Boring Terminated at 5 Feet						



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 Pensacola, FL 32502  
 Telephone: (850) 434-1000

**PROJECT NO.:** 07832578  
**PROJECT:** VPS Airport Expansion  
**LOCATION:** Valparaiso  
 Florida



**DATE STARTED:** 8/2/18 **DRILL COMPANY:** PSI, Inc.  
**DATE COMPLETED:** 8/2/18 **DRILLER:** TC **LOGGED BY:** PDK  
**COMPLETION DEPTH:** 5.0 ft **DRILL RIG:** Hand Auger  
**BENCHMARK:** N/A **DRILLING METHOD:** Hand Auger  
**ELEVATION:** N/A **SAMPLING METHOD:**  
**LATITUDE:** **HAMMER TYPE:**  
**LONGITUDE:** **EFFICIENCY:** N/A  
**STATION:** N/A **OFFSET:** N/A **REVIEWED BY:**  
**REMARKS:** \*GNE = Groundwater Not Encountered

# BORING C-13

**Water**  
 While Drilling GNE feet  
 Upon Completion GNE feet  
 Delay N/A

**BORING LOCATION:**

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	STANDARD PENETRATION TEST DATA				Additional Remarks
								N in blows/ft ©				
								Moisture, %	Moisture	PL	LL	
									▲ Qu	* Qp		
0						ASPHALT: 8 Inches	ASPHALT					
						CONCRETE: 6.5 Inches	CONCRETE					
						ASPHALT: 6 Inches	ASPHALT					
						GRAVEL BASE: 5.5 Inches	BASE					
						Brown Fine-Grained SAND with Silt	SP-SM					
5						Boring Terminated at 5 Feet						



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 Telephone: (850) 434-1000

**PROJECT NO.:** 07832578  
**PROJECT:** VPS Airport Expansion  
**LOCATION:** Valparaiso  
 Florida



Professional Service Industries, Inc.  
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 Pensacola, FL 32502  
 Eng Certificate Of Authorization 3684  
 Phone: (850) 434-1000  
 Fax: (850) 434-7200

Report No: CBR:07832578-4-S1

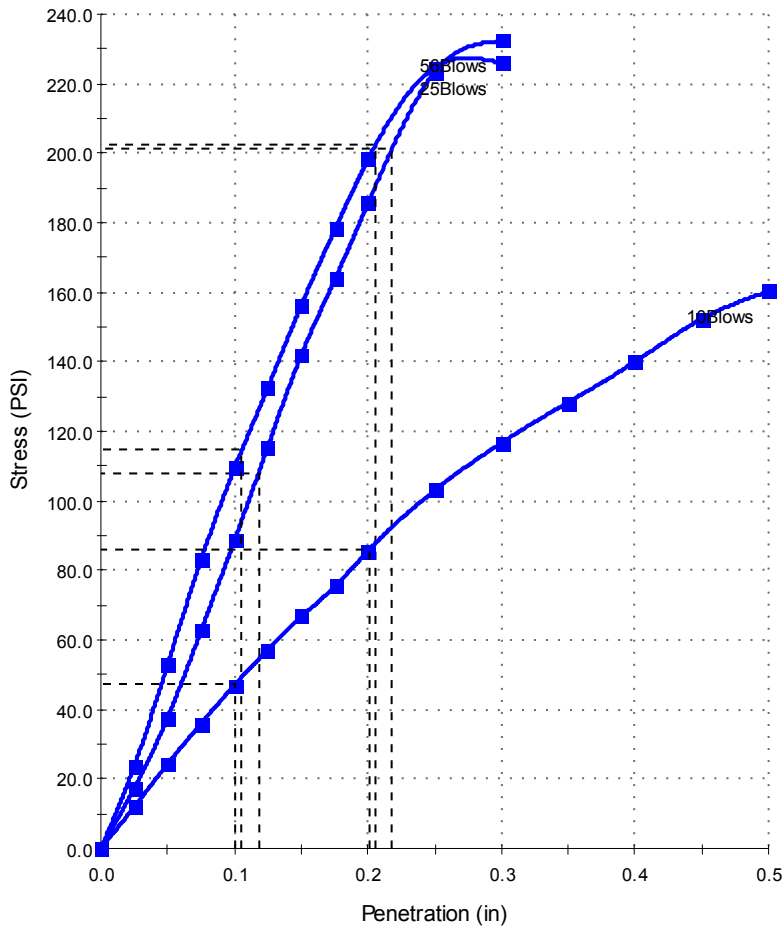
# California Bearing Ratio Report

**Client:** INFRASTRUCTURE CONSULTING **CC:**  
 AND  
 5550 W. IDLEWILD AVENUE, SUITE  
 102  
 TAMPA, FL 33634  
**Project:** DESTIN-FWB AIRPORT EXPANSION

## Sample Details

**Sample ID:** 07832578-4-S1 **Date Sampled:** 8/1/2018  
**Sampling Method:** BULK **Source:** NATURAL SUBGRADE  
**Material:** BROWN SL/SILTY SAND **Specification:**  
**Location:** B-3 **Tested By:**  
**Date Tested:**

## Stress vs Penetration



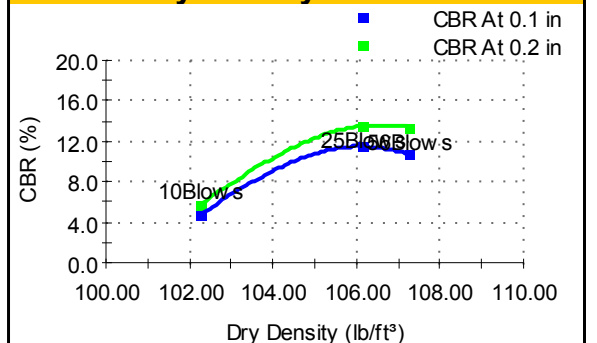
## Overall Results

ASTM D 1883

## Test Results

Blows	56	25	10
Comp. Eff.	ASTM D 1557	ASTM D 1557	ASTM D 1557
Initial MC (%)	10.0	9.8	9.6
MC of Top 1in (%)			
MC After (%)			
DD Before (lb/ft³)	107.24	106.17	102.24
DD After (lb/ft³)			
CBR (%)	13.4	13.5	5.7
% MDD	97.8	96.8	93.2
Sample Condition	Soaked	Soaked	Soaked
Immersion Period (hrs)	96	96	96
Surcharge (lb)	10.00	10.00	10.00
Swell (%)	0.00	0.00	0.00

## CBR Vs Dry Density



## Comments



Professional Service Industries, Inc.  
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Report No: PTR:07832578-4-S1

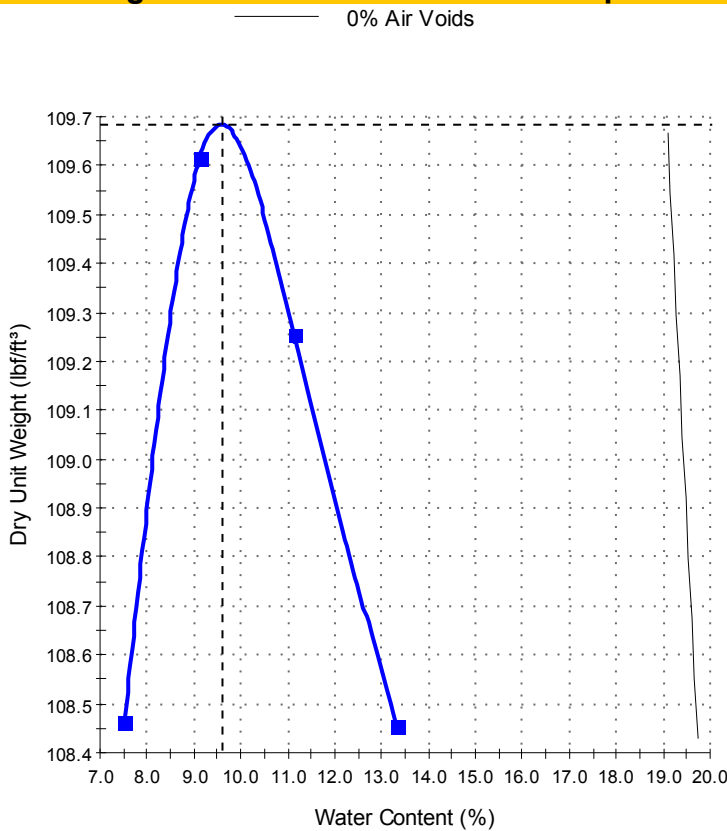
# Proctor Report

**Client:** INFRASTRUCTURE CONSULTING **CC:**  
 AND  
 5550 W. IDLEWILD AVENUE, SUITE  
 102  
 TAMPA, FL 33634  
**Project:** DESTIN-FWB AIRPORT EXPANSION

## Sample Details

<b>Sample ID:</b>	07832578-4-S1	<b>Date Sampled:</b>	8/1/2018
<b>Sampled By:</b>	Timothy Cannada	<b>Specification:</b>	
<b>Supplier:</b>	Technician Pick-Up/Sampling	<b>Source:</b>	NATURAL SUBGRADE
<b>Material:</b>	BROWN SL/SILTY SAND	<b>Sampling Method:</b>	BULK
<b>General Location:</b>	B-3	<b>Location:</b>	B-3
<b>Tested By:</b>	Timothy Cannada	<b>Date Tested:</b>	8/8/2018

## Dry Unit Weight - Water Content Relationship



## Test Results

ASTM D 1557

<b>Maximum Dry Unit Weight (lb/ft³):</b>	<b>109.7</b>
<b>Optimum Water Content (%):</b>	<b>9.6</b>
Method:	A
Preparation Method:	Dry
Rammer Type:	Mechanical
Specific Gravity (Fines):	2.65
Specific Gravity Method:	Estimated
Retained Sieve No 4 (4.75mm) (%):	0
Passing Sieve No 4 (4.75mm) (%):	100
Tested By:	Timothy Cannada
Date Tested:	8/8/2018

## Comments



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Report No: CBR:07832578-4-S2

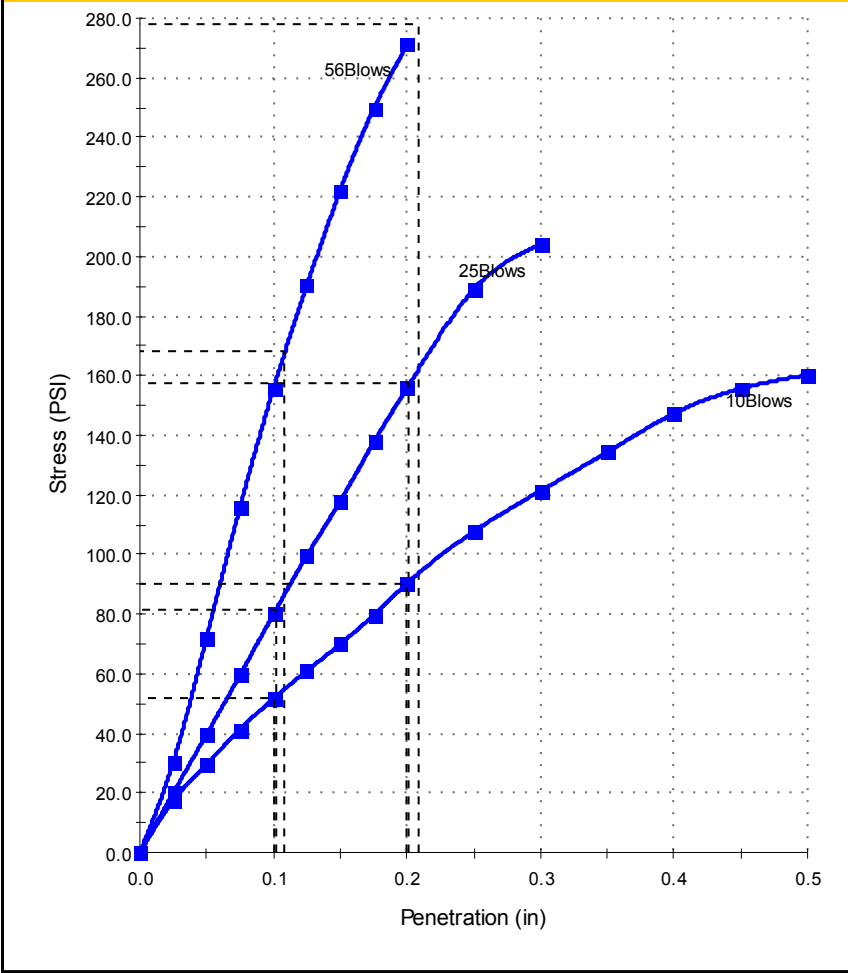
# California Bearing Ratio Report

**Client:** INFRASTRUCTURE CONSULTING **CC:**  
 AND  
 5550 W. IDLEWILD AVENUE, SUITE  
 102  
 TAMPA, FL 33634  
**Project:** DESTIN-FWB AIRPORT EXPANSION

## Sample Details

**Sample ID:** 07832578-4-S2 **Date Sampled:** 8/1/2018  
**Sampling Method:** BULK **Source:** NATURAL SUBGRADE  
**Material:** BROWN SL/SILTY SAND **Specification:**  
**Location:** B-6 **Tested By:**  
**Date Tested:**

## Stress vs Penetration



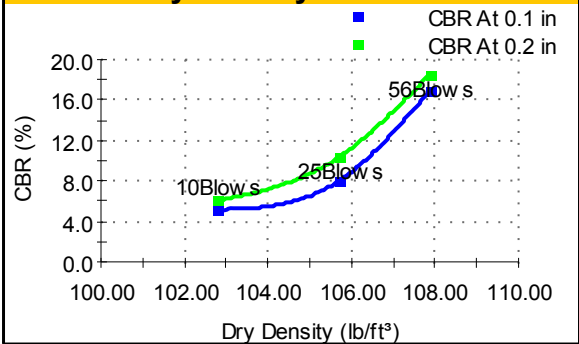
## Overall Results

ASTM D 1883

## Test Results

Blows	56	25	10
Comp. Eff.	ASTM D 1557	ASTM D 1557	ASTM D 1557
Initial MC (%)	10.9	10.6	11.1
MC of Top 1in (%)			
MC After (%)			
DD Before (lb/ft³)	107.88	105.74	102.77
DD After (lb/ft³)			
CBR (%)	18.5	10.5	6.0
% MDD	96.6	94.7	92.1
Sample Condition	Soaked	Soaked	Soaked
Immersion Period (hrs)	96	96	96
Surcharge (lb)	10.00	10.00	10.00
Swell (%)	0.00	0.00	0.00
Oversize (%)			0.0

## CBR Vs Dry Density



## Comments



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Report No: PTR:07832578-4-S2

# Proctor Report

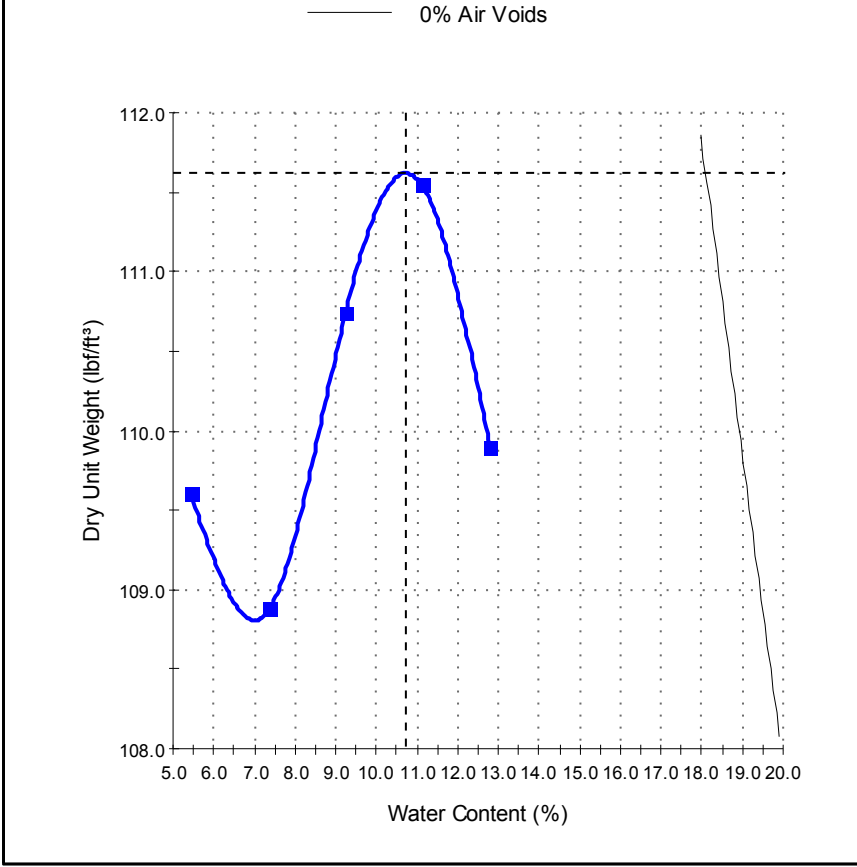
**Client:** INFRASTRUCTURE CONSULTING **CC:**  
 AND  
 5550 W. IDLEWILD AVENUE, SUITE  
 102  
 TAMPA, FL 33634  
**Project:** DESTIN-FWB AIRPORT EXPANSION

---

## Sample Details

<b>Sample ID:</b>	07832578-4-S2	<b>Date Sampled:</b>	8/1/2018
<b>Sampled By:</b>	Timothy Cannada	<b>Specification:</b>	
<b>Supplier:</b>	Technician Pick-Up/Sampling	<b>Source:</b>	NATURAL SUBGRADE
<b>Material:</b>	BROWN SL/SILTY SAND	<b>Sampling Method:</b>	BULK
<b>General Location:</b>	B-6	<b>Location:</b>	B-6
<b>Tested By:</b>	Timothy Cannada	<b>Date Tested:</b>	8/9/2018

## Dry Unit Weight - Water Content Relationship



## Test Results

ASTM D 1557

<b>Maximum Dry Unit Weight (lb/ft³):</b>	<b>111.6</b>
<b>Optimum Water Content (%):</b>	<b>10.7</b>
Method:	A
Preparation Method:	Dry
Rammer Type:	Mechanical
Specific Gravity (Fines):	2.65
Specific Gravity Method:	Estimated
Retained Sieve No 4 (4.75mm) (%):	0
Passing Sieve No 4 (4.75mm) (%):	100
Tested By:	Timothy Cannada
Date Tested:	8/9/2018

## Comments

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 Eng Certificate Of Authorization 3684  
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Report No: CBR:07832578-4-S3

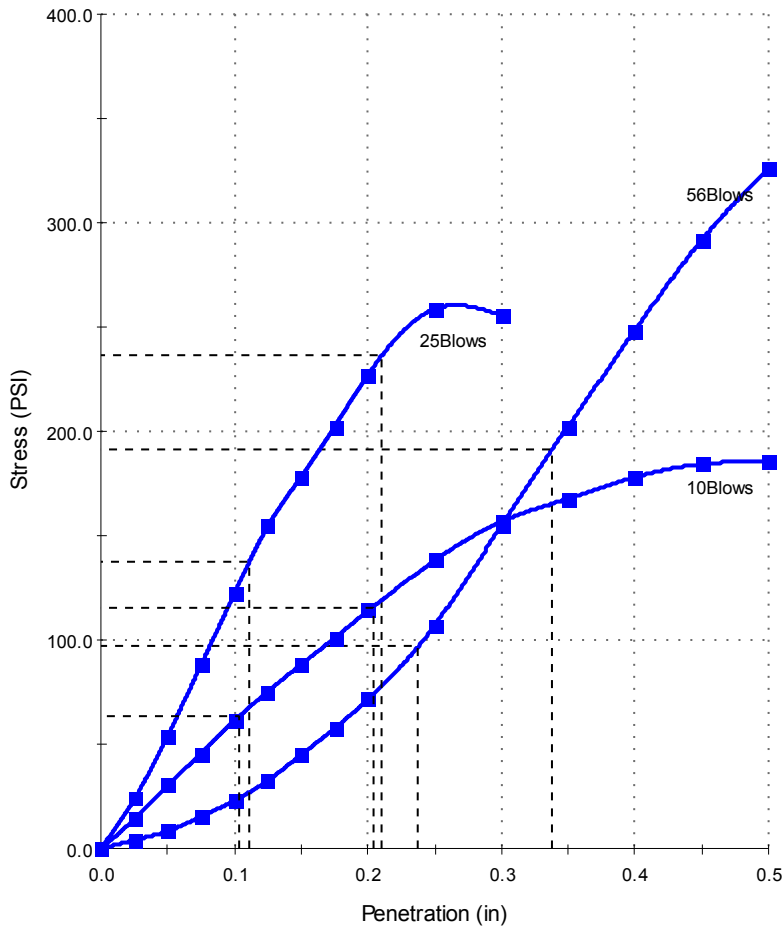
# California Bearing Ratio Report

**Client:** INFRASTRUCTURE CONSULTING **CC:**  
 AND  
 5550 W. IDLEWILD AVENUE, SUITE  
 102  
 TAMPA, FL 33634  
**Project:** DESTIN-FWB AIRPORT EXPANSION

## Sample Details

**Sample ID:** 07832578-4-S3 **Date Sampled:** 8/1/2018  
**Sampling Method:** BULK **Source:** NATURAL SUBGRADE  
**Material:** BROWN SL/SILTY SAND **Specification:**  
**Location:** B-13 **Tested By:**  
**Date Tested:**

## Stress vs Penetration



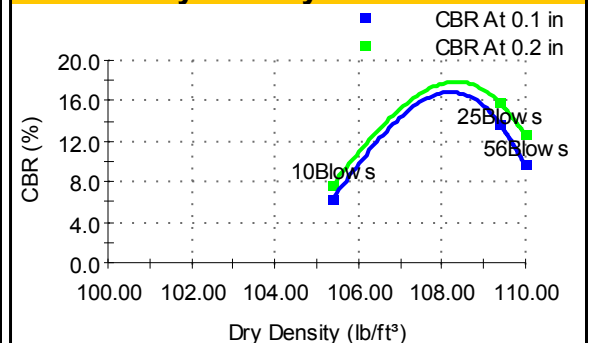
## Overall Results

ASTM D 1883

## Test Results

Blows	56	25	10
Comp. Eff.	ASTM D 1557	ASTM D 1557	ASTM D 1557
Initial MC (%)	11.3	11.2	11.3
MC of Top 1in (%)			
MC After (%)			
DD Before (lb/ft <sup>3</sup> )	109.98	109.38	105.38
DD After (lb/ft <sup>3</sup> )			
CBR (%)	12.7	15.8	7.7
% MDD	98.0	97.5	93.9
Sample Condition	Soaked	Soaked	Soaked
Immersion Period (hrs)	96	96	96
Surcharge (lb)		10.00	
Swell (%)	0.00	0.00	0.00

## CBR Vs Dry Density



## Comments



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Report No: PTR:07832578-4-S3

# Proctor Report

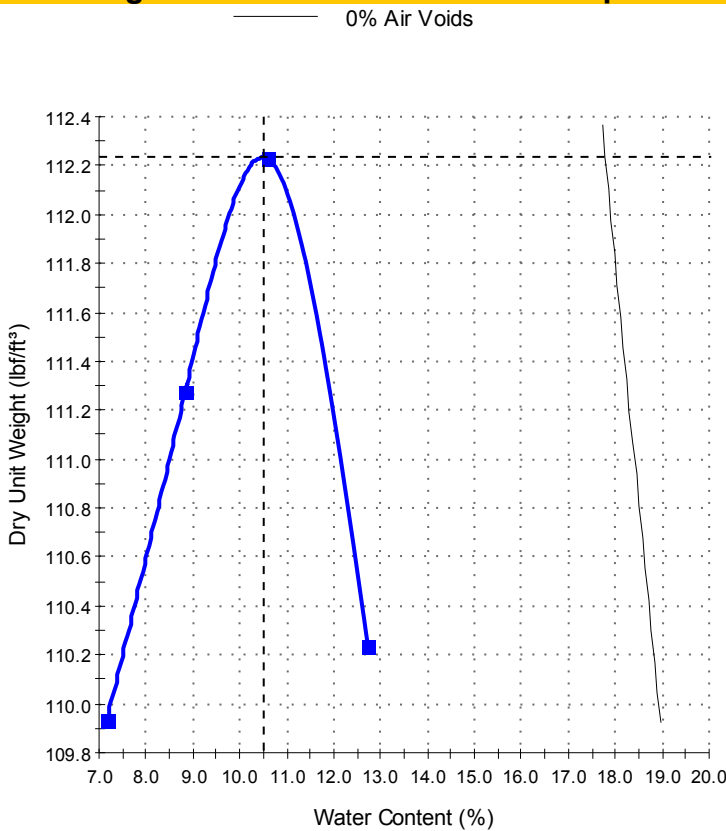
**Client:** INFRASTRUCTURE CONSULTING **CC:**  
 AND  
 5550 W. IDLEWILD AVENUE, SUITE  
 102  
 TAMPA, FL 33634  
**Project:** DESTIN-FWB AIRPORT EXPANSION

---

## Sample Details

<b>Sample ID:</b>	07832578-4-S3	<b>Date Sampled:</b>	8/1/2018
<b>Sampled By:</b>	Timothy Cannada	<b>Specification:</b>	
<b>Supplier:</b>	Technician Pick-Up/Sampling	<b>Source:</b>	NATURAL SUBGRADE
<b>Material:</b>	BROWN SL/SILTY SAND	<b>Sampling Method:</b>	BULK
<b>General Location:</b>	B-13	<b>Location:</b>	B-13
<b>Tested By:</b>	Timothy Cannada	<b>Date Tested:</b>	8/10/2018

## Dry Unit Weight - Water Content Relationship



## Test Results

ASTM D 1557

<b>Maximum Dry Unit Weight (lb/ft³):</b>	<b>112.2</b>
<b>Optimum Water Content (%):</b>	<b>10.5</b>
Method:	A
Preparation Method:	Dry
Rammer Type:	Mechanical
Specific Gravity (Fines):	2.65
Specific Gravity Method:	Estimated
Retained Sieve No 4 (4.75mm) (%):	0
Passing Sieve No 4 (4.75mm) (%):	100
Tested By:	Timothy Cannada
Date Tested:	8/10/2018

## Comments

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Report No: CBR:07832578-4-S4

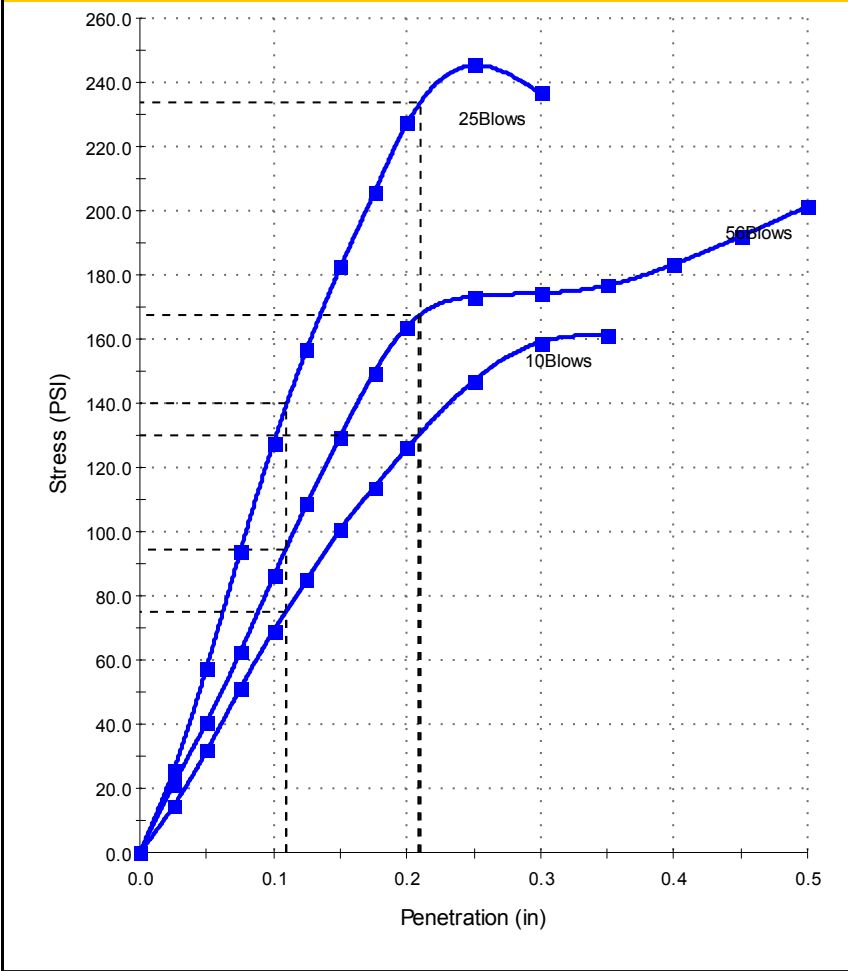
# California Bearing Ratio Report

**Client:** INFRASTRUCTURE CONSULTING **CC:**  
 AND  
 5550 W. IDLEWILD AVENUE, SUITE  
 102  
 TAMPA, FL 33634  
**Project:** DESTIN-FWB AIRPORT EXPANSION

## Sample Details

**Sample ID:** 07832578-4-S4 **Date Sampled:** 8/1/2018  
**Sampling Method:** BULK **Source:** NATURAL SUBGRADE  
**Material:** BROWN SL/SILTY SAND **Specification:**  
**Location:** B-16 **Tested By:**  
**Date Tested:**

## Stress vs Penetration



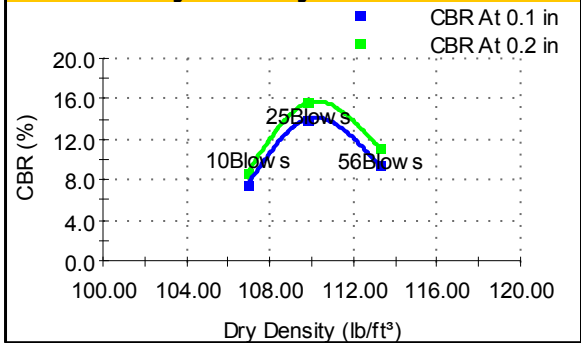
## Overall Results

ASTM D 1883

## Test Results

Blows	56	25	10
Comp. Eff.	ASTM D 1557	ASTM D 1557	ASTM D 1557
Initial MC (%)	10.9	10.7	10.8
MC of Top 1in (%)			
MC After (%)			
DD Before (lb/ft³)	113.22	109.77	106.93
DD After (lb/ft³)			
CBR (%)	11.2	15.6	8.7
% MDD	100.9	97.8	95.3
Sample Condition	Soaked	Soaked	Soaked
Immersion Period (hrs)	96	96	96
Surcharge (lb)	10.00	10.00	10.00
Swell (%)	0.00	0.00	0.00

## CBR Vs Dry Density



## Comments





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 Pensacola, FL 32502  
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Report No: PTR:07832578-4-S4

# Proctor Report

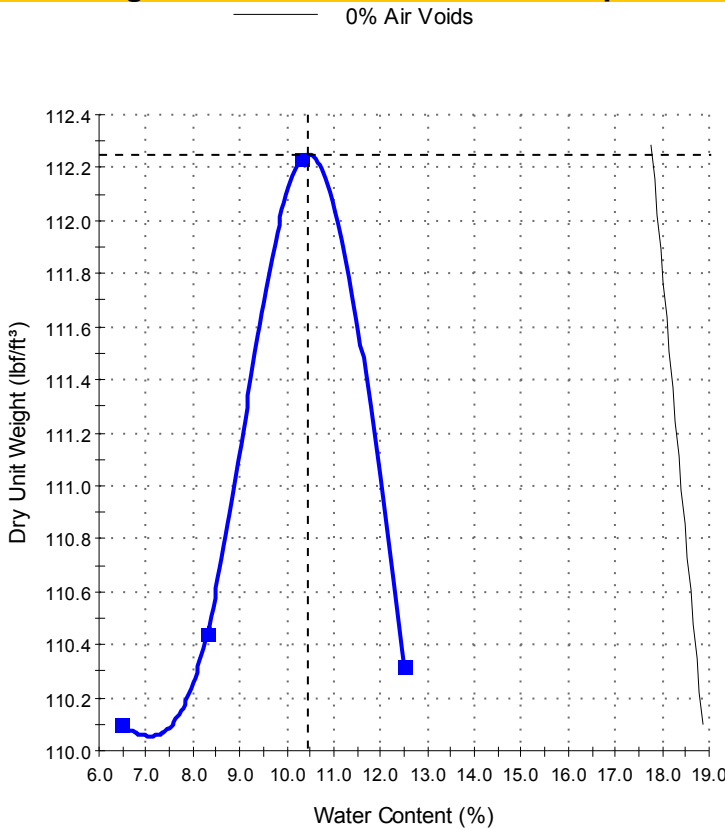
**Client:** INFRASTRUCTURE CONSULTING **CC:**  
 AND  
 5550 W. IDLEWILD AVENUE, SUITE  
 102  
 TAMPA, FL 33634  
**Project:** DESTIN-FWB AIRPORT EXPANSION

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## Sample Details

<b>Sample ID:</b>	07832578-4-S4	<b>Date Sampled:</b>	8/1/2018
<b>Sampled By:</b>	Timothy Cannada	<b>Specification:</b>	
<b>Supplier:</b>	Technician Pick-Up/Sampling	<b>Source:</b>	NATURAL SUBGRADE
<b>Material:</b>	BROWN SL/SILTY SAND	<b>Sampling Method:</b>	BULK
<b>General Location:</b>	B-16	<b>Location:</b>	B-16
<b>Tested By:</b>	Timothy Cannada	<b>Date Tested:</b>	8/10/2018

## Dry Unit Weight - Water Content Relationship



## Test Results

ASTM D 1557

**Maximum Dry Unit Weight (lb/ft³):** 112.2

**Optimum Water Content (%):** 10.5

Method: A

Preparation Method: Dry

Specific Gravity (Fines): 2.65

Specific Gravity Method: Estimated

Retained Sieve No 4 (4.75mm) (%): 0

Passing Sieve No 4 (4.75mm) (%): 100

Tested By: Timothy Cannada

Date Tested: 8/10/2018

## Comments

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## GENERAL NOTES

### SAMPLE IDENTIFICATION

The Unified Soil Classification System (USCS), AASHTO 1988 and ASTM designations D2487 and D-2488 are used to identify the encountered materials unless otherwise noted. Coarse-grained soils are defined as having more than 50% of their dry weight retained on a #200 sieve (0.075mm); they are described as: boulders, cobbles, gravel or sand. Fine-grained soils have less than 50% of their dry weight retained on a #200 sieve; they are defined as silts or clay depending on their Atterberg Limit attributes. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size.

### DRILLING AND SAMPLING SYMBOLS

SFA: Solid Flight Auger - typically 4" diameter flights, except where noted.	☒ SS: Split-Spoon - 1 3/8" I.D., 2" O.D., except where noted.
HSA: Hollow Stem Auger - typically 3¼" or 4¼ I.D. openings, except where noted.	■ ST: Shelby Tube - 3" O.D., except where noted.
M.R.: Mud Rotary - Uses a rotary head with Bentonite or Polymer Slurry	▮ RC: Rock Core
R.C.: Diamond Bit Core Sampler	□ TC: Texas Cone
H.A.: Hand Auger	☞ BS: Bulk Sample
P.A.: Power Auger - Handheld motorized auger	☒ PM: Pressuremeter
	CPT-U: Cone Penetrometer Testing with Pore-Pressure Readings

### SOIL PROPERTY SYMBOLS

- N: Standard "N" penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2-inch O.D. Split-Spoon.
- N<sub>60</sub>: A "N" penetration value corrected to an equivalent 60% hammer energy transfer efficiency (ETR)
- Q<sub>u</sub>: Unconfined compressive strength, TSF
- Q<sub>p</sub>: Pocket penetrometer value, unconfined compressive strength, TSF
- w%: Moisture/water content, %
- LL: Liquid Limit, %
- PL: Plastic Limit, %
- PI: Plasticity Index = (LL-PL),%
- DD: Dry unit weight, pcf
- ▼, ▼, ▼ Apparent groundwater level at time noted

### RELATIVE DENSITY OF COARSE-GRAINED SOILS      ANGULARITY OF COARSE-GRAINED PARTICLES

<u>Relative Density</u>	<u>N - Blows/foot</u>
Very Loose	0 - 4
Loose	4 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	50 - 80
Extremely Dense	80+

<u>Description</u>	<u>Criteria</u>
Angular:	Particles have sharp edges and relatively plane sides with unpolished surfaces
Subangular:	Particles are similar to angular description, but have rounded edges
Subrounded:	Particles have nearly plane sides, but have well-rounded corners and edges
Rounded:	Particles have smoothly curved sides and no edges

### GRAIN-SIZE TERMINOLOGY

<u>Component</u>	<u>Size Range</u>
Boulders:	Over 300 mm (>12 in.)
Cobbles:	75 mm to 300 mm (3 in. to 12 in.)
Coarse-Grained Gravel:	19 mm to 75 mm (¾ in. to 3 in.)
Fine-Grained Gravel:	4.75 mm to 19 mm (No.4 to ¾ in.)
Coarse-Grained Sand:	2 mm to 4.75 mm (No.10 to No.4)
Medium-Grained Sand:	0.42 mm to 2 mm (No.40 to No.10)
Fine-Grained Sand:	0.075 mm to 0.42 mm (No. 200 to No.40)
Silt:	0.005 mm to 0.075 mm
Clay:	<0.005 mm

### PARTICLE SHAPE

<u>Description</u>	<u>Criteria</u>
Flat:	Particles with width/thickness ratio > 3
Elongated:	Particles with length/width ratio > 3
Flat & Elongated:	Particles meet criteria for both flat and elongated

### RELATIVE PROPORTIONS OF FINES

<u>Descriptive Term</u>	<u>% Dry Weight</u>
Trace:	< 5%
With:	5% to 12%
Modifier:	>12%



## GENERAL NOTES

(Continued)

### CONSISTENCY OF FINE-GRAINED SOILS

<u>Q<sub>u</sub> - TSF</u>	<u>N - Blows/foot</u>	<u>Consistency</u>
0 - 0.25	0 - 2	Very Soft
0.25 - 0.50	2 - 4	Soft
0.50 - 1.00	4 - 8	Firm (Medium Stiff)
1.00 - 2.00	8 - 15	Stiff
2.00 - 4.00	15 - 30	Very Stiff
4.00 - 8.00	30 - 50	Hard
8.00+	50+	Very Hard

### MOISTURE CONDITION DESCRIPTION

<u>Description</u>	<u>Criteria</u>
Dry:	Absence of moisture, dusty, dry to the touch
Moist:	Damp but no visible water
Wet:	Visible free water, usually soil is below water table

### RELATIVE PROPORTIONS OF SAND AND GRAVEL

<u>Descriptive Term</u>	<u>% Dry Weight</u>
Trace:	< 15%
With:	15% to 30%
Modifier:	>30%

### STRUCTURE DESCRIPTION

<u>Description</u>	<u>Criteria</u>	<u>Description</u>	<u>Criteria</u>
Stratified:	Alternating layers of varying material or color with layers at least ¼-inch (6 mm) thick	Blocky:	Cohesive soil that can be broken down into small angular lumps which resist further breakdown
Laminated:	Alternating layers of varying material or color with layers less than ¼-inch (6 mm) thick	Lensed:	Inclusion of small pockets of different soils
Fissured:	Breaks along definite planes of fracture with little resistance to fracturing	Layer:	Inclusion greater than 3 inches thick (75 mm)
Slickensided:	Fracture planes appear polished or glossy, sometimes striated	Seam:	Inclusion 1/8-inch to 3 inches (3 to 75 mm) thick extending through the sample
		Parting:	Inclusion less than 1/8-inch (3 mm) thick

### SCALE OF RELATIVE ROCK HARDNESS

<u>Q<sub>u</sub> - TSF</u>	<u>Consistency</u>
2.5 - 10	Extremely Soft
10 - 50	Very Soft
50 - 250	Soft
250 - 525	Medium Hard
525 - 1,050	Moderately Hard
1,050 - 2,600	Hard
>2,600	Very Hard

### ROCK BEDDING THICKNESSES

<u>Description</u>	<u>Criteria</u>
Very Thick Bedded	Greater than 3-foot (>1.0 m)
Thick Bedded	1-foot to 3-foot (0.3 m to 1.0 m)
Medium Bedded	4-inch to 1-foot (0.1 m to 0.3 m)
Thin Bedded	1¼-inch to 4-inch (30 mm to 100 mm)
Very Thin Bedded	½-inch to 1¼-inch (10 mm to 30 mm)
Thickly Laminated	1/8-inch to ½-inch (3 mm to 10 mm)
Thinly Laminated	1/8-inch or less "paper thin" (<3 mm)

### ROCK VOIDS

<u>Voids</u>	<u>Void Diameter</u>
Pit	<6 mm (<0.25 in)
Vug	6 mm to 50 mm (0.25 in to 2 in)
Cavity	50 mm to 600 mm (2 in to 24 in)
Cave	>600 mm (>24 in)

### GRAIN-SIZED TERMINOLOGY

(Typically Sedimentary Rock)

<u>Component</u>	<u>Size Range</u>
Very Coarse Grained	>4.76 mm
Coarse Grained	2.0 mm - 4.76 mm
Medium Grained	0.42 mm - 2.0 mm
Fine Grained	0.075 mm - 0.42 mm
Very Fine Grained	<0.075 mm

### ROCK QUALITY DESCRIPTION

<u>Rock Mass Description</u>	<u>RQD Value</u>
Excellent	90 -100
Good	75 - 90
Fair	50 - 75
Poor	25 -50
Very Poor	Less than 25

### DEGREE OF WEATHERING

Slightly Weathered:	Rock generally fresh, joints stained and discoloration extends into rock up to 25 mm (1 in), open joints may contain clay, core rings under hammer impact.
Weathered:	Rock mass is decomposed 50% or less, significant portions of the rock show discoloration and weathering effects, cores cannot be broken by hand or scraped by knife.
Highly Weathered:	Rock mass is more than 50% decomposed, complete discoloration of rock fabric, core may be extremely broken and gives clunk sound when struck by hammer, may be shaved with a knife.

# SOIL CLASSIFICATION CHART

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS			
			GRAPH	LETTER				
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS  (LITTLE OR NO FINES)		<b>GW</b>	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES			
				<b>GP</b>	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES			
		GRAVELS WITH FINES  (APPRECIABLE AMOUNT OF FINES)		<b>GM</b>	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES			
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE				<b>GC</b>	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES		
		SAND AND SANDY SOILS	CLEAN SANDS  (LITTLE OR NO FINES)		<b>SW</b>	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES		
					<b>SP</b>	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES		
	MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	SAND AND SANDY SOILS	MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE			<b>SM</b>	SILTY SANDS, SAND - SILT MIXTURES	
				SANDS WITH FINES  (APPRECIABLE AMOUNT OF FINES)		<b>SC</b>	CLAYEY SANDS, SAND - CLAY MIXTURES	
			FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		<b>ML</b>	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
							<b>CL</b>	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
	<b>OL</b>	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY						
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		<b>MH</b>	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS			
				<b>CH</b>	INORGANIC CLAYS OF HIGH PLASTICITY			
				<b>OH</b>	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS			
HIGHLY ORGANIC SOILS				<b>PT</b>	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS			









DESTIN - FORT WALTON BEACH AIRPORT



**INFRASTRUCTURE CONSULTING & ENGINEERING**  
5550 WEST IDLEWILD AVE. SUITE 102  
TAMPA, FLORIDA 33634 (813) 330-2701  
CERTIFICATE OF AUTHORIZATION NO.: 30862

Project Name:  
**CONSTRUCT WEST APRON EXPANSION AND INFRASTRUCTURE AT VPS**

Designer: HJ Checked by: JNG

Technician: MA ICE Proj. No.: 18-46

Engineer of Record:

Notes:

**REVISIONS**

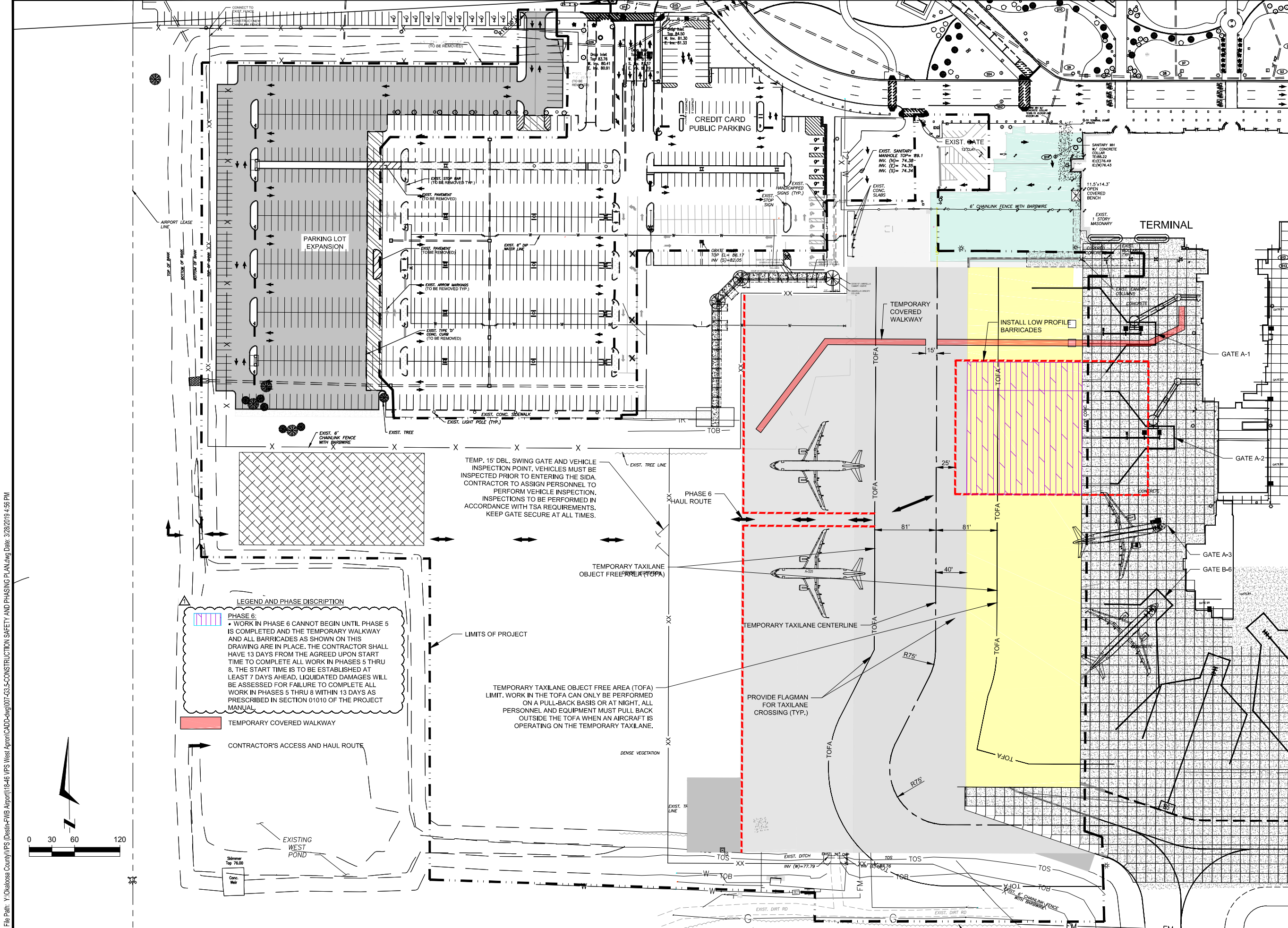
No.	Description	Date	By
1	Addendum #1	3/29/19	JG

Drawing Name:  
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FAA A.I.P. Project No.:  
**3-12-0081-029-2018**

FDOT Project No.:

Date: FEB 2019 Sheet Number: G3.5



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CONSULTING & ENGINEERING  
5550 WEST IDLEWILD AVE, SUITE 102  
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CERTIFICATE OF AUTHORIZATION NO.: 30862

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EXPANSION AND  
INFRASTRUCTURE AT VPS**

Designer:	HJ	Checked by:	JNG
Technician:	MA	ICE Proj. No.:	18-46

Engineer of Record:

Notes:

**REVISIONS**

No.	Description	Date	By
▲ Addendum #1		3/29/19	JG

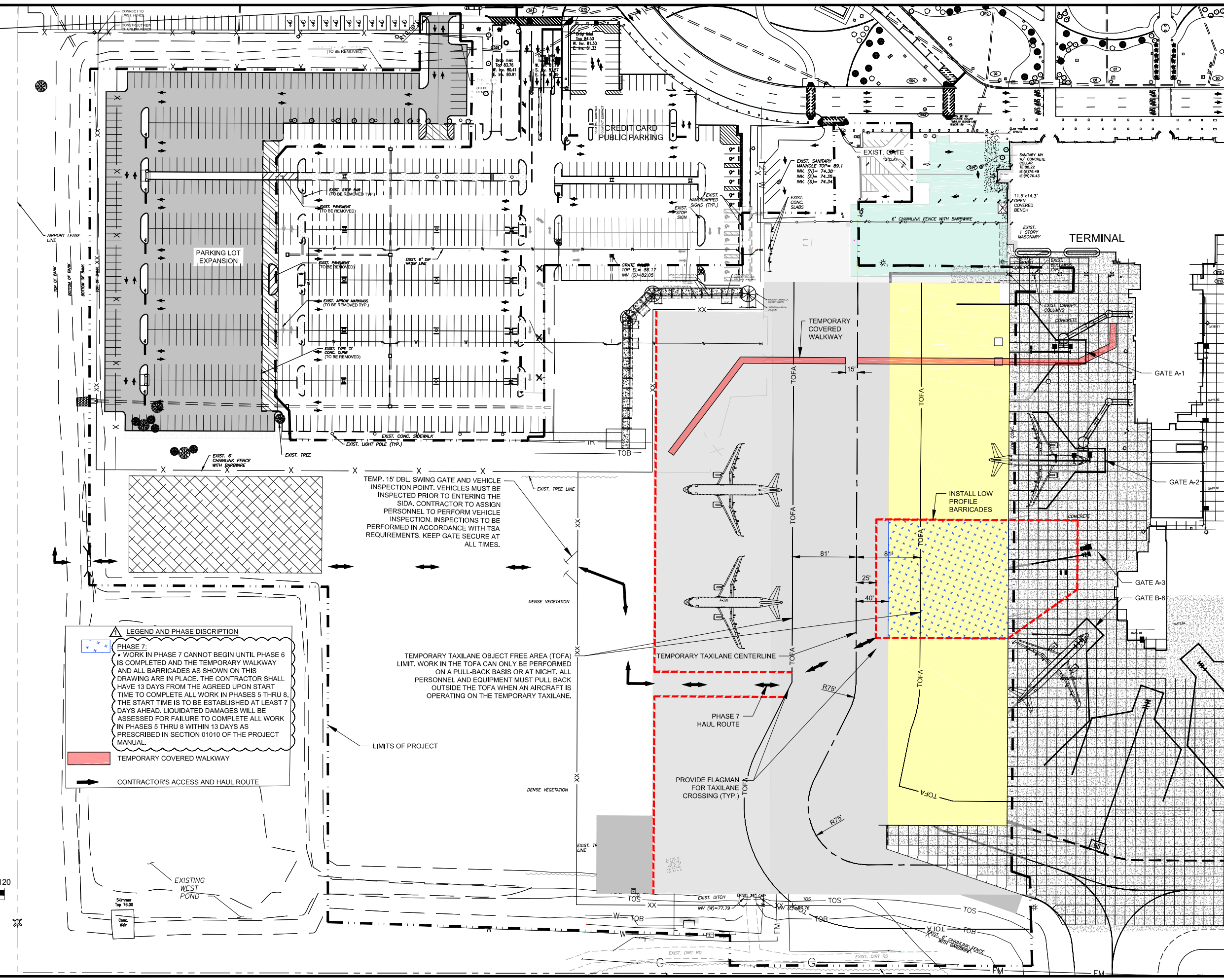
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PHASING PLAN**

FAA A.I.P. Project No.:  
**3-12-0081-029-2018**

FDOT Project No.:

Date:  
**FEB 2019**

Sheet Number:  
**G3.6**



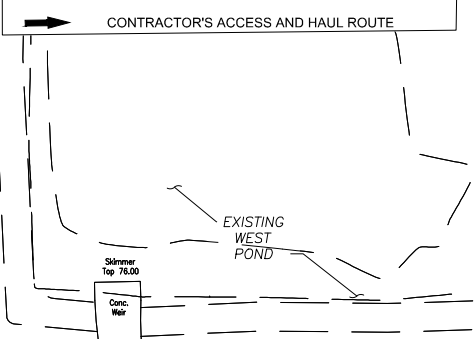
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**PHASE 7:**  
 • WORK IN PHASE 7 CANNOT BEGIN UNTIL PHASE 6 IS COMPLETED AND THE TEMPORARY WALKWAY AND ALL BARRICADES AS SHOWN ON THIS DRAWING ARE IN PLACE. THE CONTRACTOR SHALL HAVE 13 DAYS FROM THE AGREED UPON START TIME TO COMPLETE ALL WORK IN PHASES 5 THRU 8. THE START TIME IS TO BE ESTABLISHED AT LEAST 7 DAYS AHEAD. LIQUIDATED DAMAGES WILL BE ASSESSED FOR FAILURE TO COMPLETE ALL WORK IN PHASES 5 THRU 8 WITHIN 13 DAYS AS PRESCRIBED IN SECTION 01010 OF THE PROJECT MANUAL.

- TEMPORARY COVERED WALKWAY
- CONTRACTOR'S ACCESS AND HAUL ROUTE

TEMP. 15' DBL SWING GATE AND VEHICLE INSPECTION POINT. VEHICLES MUST BE INSPECTED PRIOR TO ENTERING THE SIDA. CONTRACTOR TO ASSIGN PERSONNEL TO PERFORM VEHICLE INSPECTION. INSPECTIONS TO BE PERFORMED IN ACCORDANCE WITH TSA REQUIREMENTS. KEEP GATE SECURE AT ALL TIMES.

TEMPORARY TAXILANE OBJECT FREE AREA (TOFA) LIMIT. WORK IN THE TOFA CAN ONLY BE PERFORMED ON A PULL-BACK BASIS OR AT NIGHT. ALL PERSONNEL AND EQUIPMENT MUST PULL BACK OUTSIDE THE TOFA WHEN AN AIRCRAFT IS OPERATING ON THE TEMPORARY TAXILANE.



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DESTIN - FORT WALTON BEACH AIRPORT



**INFRASTRUCTURE CONSULTING & ENGINEERING**  
5550 WEST IDLEWILD AVE, SUITE 102  
TAMPA, FLORIDA 33634 (813) 330-2701  
CERTIFICATE OF AUTHORIZATION NO.: 30862

Project Name:  
**CONSTRUCT WEST APRON EXPANSION AND INFRASTRUCTURE AT VPS**

Designer:	HJ	Checked by:	JNG
Technician:	MA	ICE Proj. No.:	18-46

Engineer of Record:

Notes:

**REVISIONS**

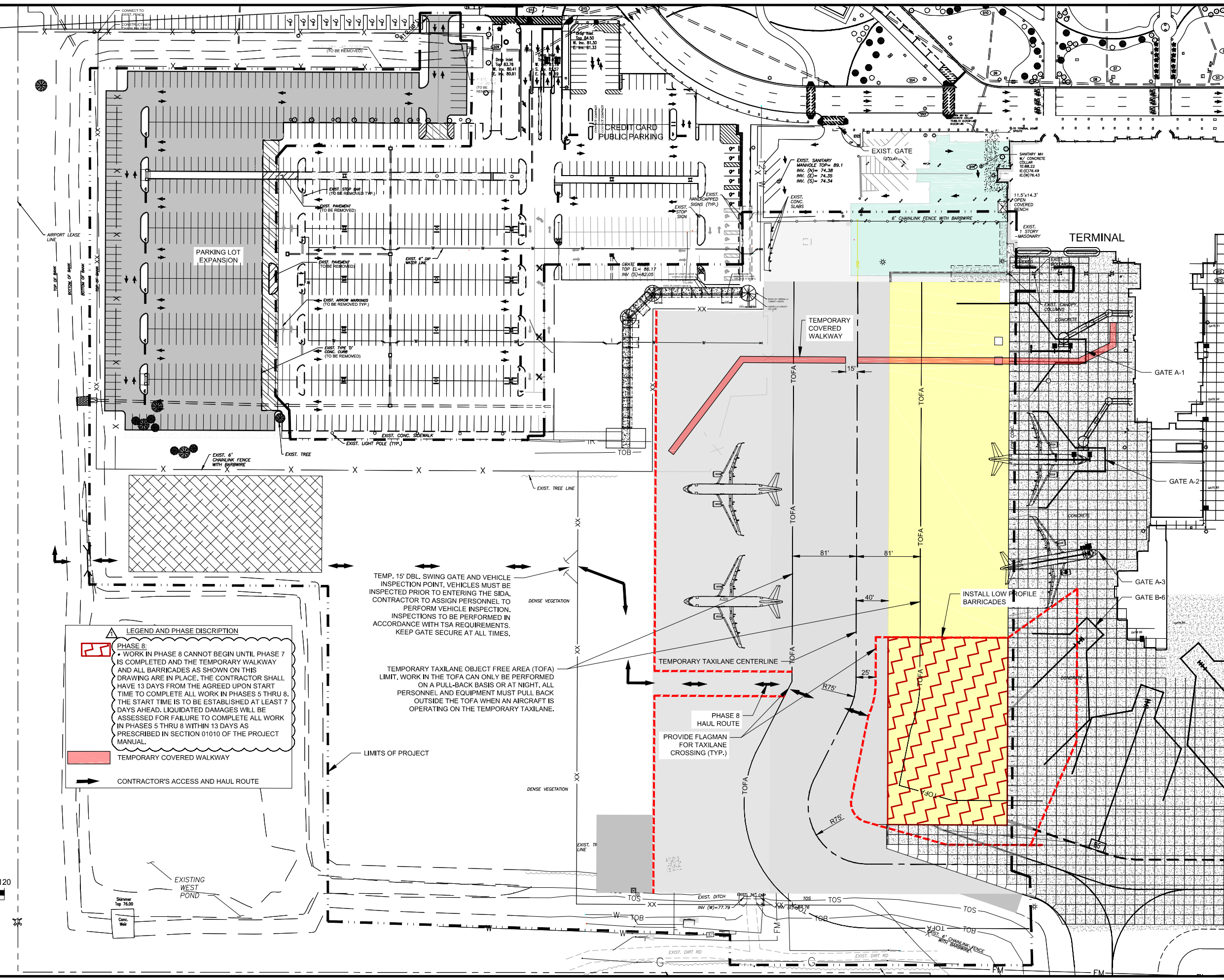
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▲ Addendum #1		3/29/19	JG

Drawing Name:  
**CONSTRUCTION SAFETY AND PHASING PLAN**

FAA A.I.P. Project No.:  
**3-12-0081-029-2018**

FDOT Project No.:

Date:	FEB 2019	Sheet Number:	G3.7
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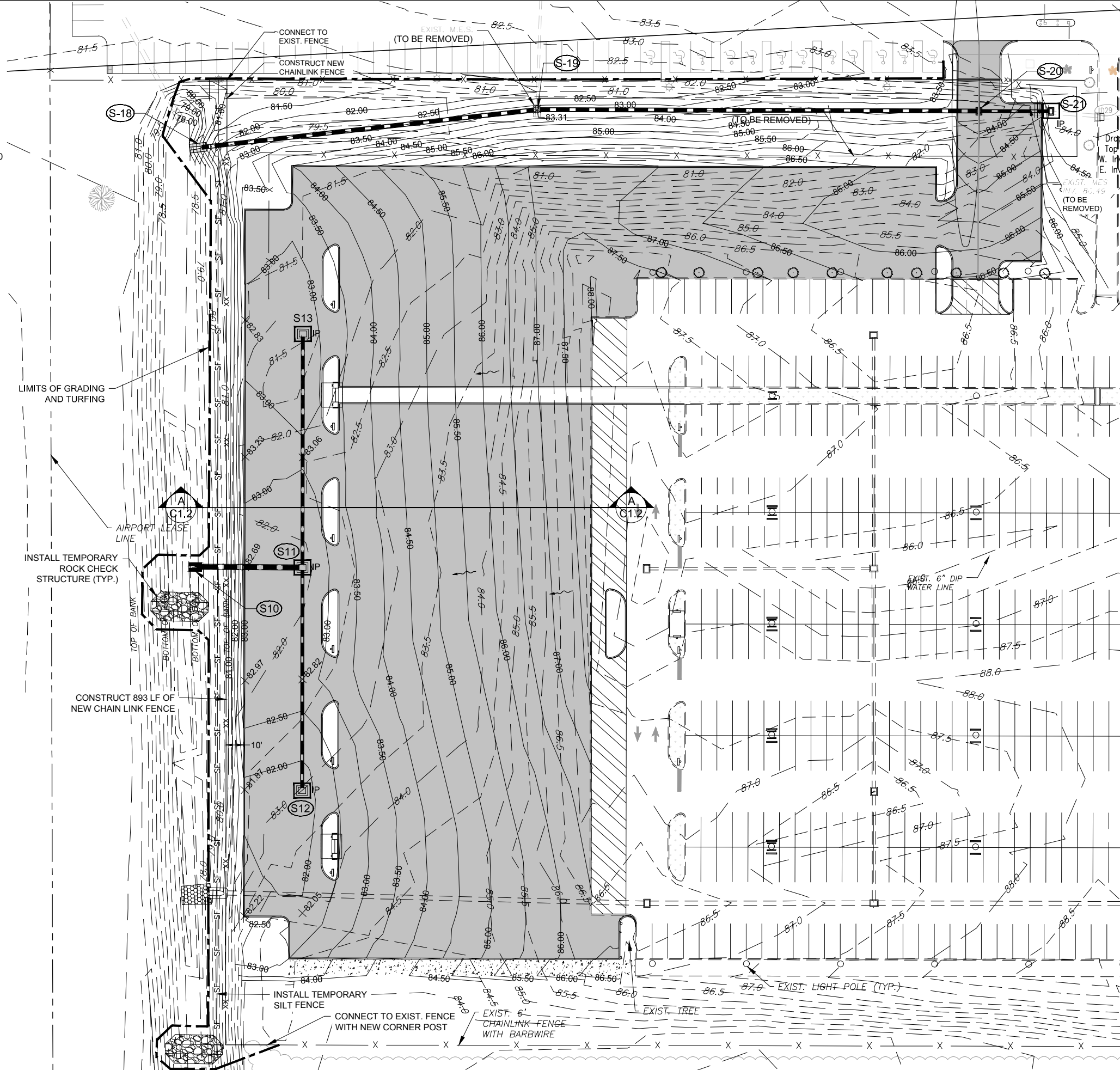
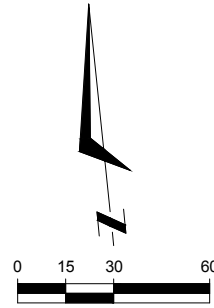
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LEGEND	
	ASPHALT MILLING AND RESURFACING
	FULL STRENGTH ASPHALT PAVEMENT
	GROUND SERVICE EQUIPMENT (GSE) ASPHALT PAVEMENT
	15" PCC PAVEMENT
	8" PCC PAVEMENT
	ASPHALT PARKING LOT PAVEMENT
	NEW CONCRETE SIDEWALK
	NEW ASPHALT SURFACE COURSE
	NEW TRENCH DRAIN
	NEW INLET
	NEW MITERED END SECTION
	PROPOSED RUNWAY SAFETY AREA
	PROPOSED RUNWAY OBJECT FREE AREA
	RUNWAY OBJECT FREE ZONE
	SUBSURFACE UTILITY TEST HOLE LOCATION
	NEW CHAINLINK FENCE
	NEW MANHOLE
	PROPOSED CONTOURS
	TEMPORARY SILT FENCE
	INLET PROTECTION
	NEW STORM DRAIN PIPE
	BENCH MARK
	LIMITS OF GRADING AND TURFING
	EXISTING FIBER OPTIC BOX
	EXISTING ELECTRIC
	EXISTING TW EDGE LIGHTS
	EXISTING MITERED END SECTION
	EXISTING UNDER GROUND ELECTRIC
	EXISTING FIBER OPTIC LINE
	EXISTING RUNWAY SAFETY AREA
	EXISTING RUNWAY OBJECT FREE AREA
	EXIST. FORCE MAIN
	UNKNOWN UTILITY LINE
	EXIST. IRRIGATION LINE
	BURIED FIBER OPTIC LINE
	BURIED ELECTRIC LINE
	TREE LINE
	EXIST. CHAINLINK FENCE
	EXIST. WATER LINE
	EXIST. GAS LINE
	EXIST. CONTOURS
	EXIST. SANITARY MANHOLE



MATCH LINE SHEET C4.2



**DESTIN - FORT WALTON BEACH AIRPORT**



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CERTIFICATE OF AUTHORIZATION NO.: 30862

Project Name:  
**CONSTRUCT WEST APRON EXPANSION AND INFRASTRUCTURE AT VPS**

Designer: HJ Checked by: JNG

Technician: MA ICE Proj. No.: 18-46

Engineer of Record:

- Notes:
- SEE THIS SHEET FOR LEGEND.
  - SEE SHEET C4.11 FOR DRAINAGE STRUCTURE SCH.
  - IN ADDITION AREAS WITHIN THE LIMITS OF GRADING AND ALL AREAS TO BE CLEARED AND GRUBBED ARE TO BE TURFED PER FDOT SPEC SECTION 570.

**REVISIONS**

No.	Description	Date	By
1	Addendum #1	3/29/19	JG

Drawing Name:  
**GRADING AND DRAINAGE PLAN NO. 1**

FAA A.I.P. Project No.:  
**3-12-0081-029-2018**

FDOT Project No.:

Date: FEB 2019 Sheet Number: C4.1



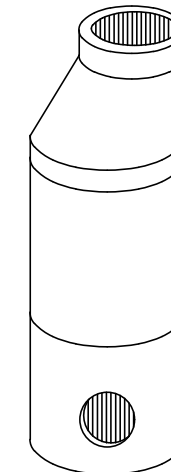
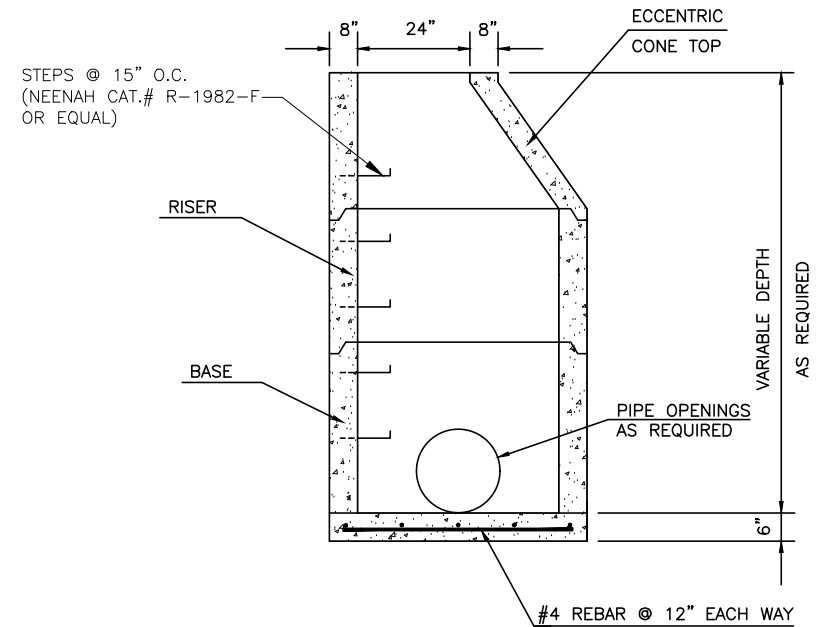
DRAINAGE STRUCTURE SCHEDULE

- S1 CONSTRUCT FLARED END SECTION ON 54" RCP  
STA. = 101+98.54  
OFF. = 438.16'L  
INV. = 75.00
- S2 CONSTRUCT AIRFIELD MANHOLE  
STA. = 101+80.84  
OFF. = 231.97'L  
GRATE EL. = 82.40  
INV. EL. (54") = 75.0  
INV. EL. (42"&36") = 75.0
- S2-1 CONSTRUCT TYPE "4" AIRFIELD INLET  
STA. = 101+56.18  
OFF. = 55.49'L  
GRATE EL. = 80.50  
INV. EL. = 75.0
- S3 CONSTRUCT AIRFIELD MANHOLE  
STA. = 102+12.01  
OFF. = 109.28'L  
RIM EL. = 81.82  
INV. EL. (42") = 75.00  
INV. EL. (36") = 75.50  
INV. EL. (30") = 75.50
- S3-1 CONSTRUCT AIRFIELD TRENCH DRAIN INLET  
STA. = 102+08.14  
OFF. = 40.63'L  
GRATE EL. = 80.50  
INV. EL. = 76.50
- S4 CONSTRUCT AIRFIELD MANHOLE  
STA. = 103+23.61  
OFF. = 107.30'L  
RIM EL. = 81.96  
INV. EL. (36") = 75.71  
INV. EL. (30") = 76.21  
INV. EL. (18") = 77.21
- S4-1 CONSTRUCT AIRFIELD TRENCH DRAIN INLET  
STA. = 103+25.35  
OFF. = 76.04'L  
GRATE EL. = 81.80  
INV. EL. = 77.80
- S5 CONSTRUCT AIRFIELD MANHOLE  
STA. = 104+46.61  
OFF. = 107.16'L  
RIM EL. = 82.52  
INV. EL. (30") = 76.80  
INV. EL. (18") = 77.80
- S5-1 CONSTRUCT AIRFIELD TRENCH DRAIN INLET  
STA. = 104+50.44  
OFF. = 75.70'L  
GRATE EL. = 82.40  
INV. EL. = 78.40
- S6 CONSTRUCT AIRFIELD MANHOLE  
STA. = 105+59.11  
OFF. = 107.04'L  
GRATE EL. = 83.22  
INV. EL. (30") = 77.50  
INV. EL. (24") = 78.00  
INV. EL. (18") = 78.50
- S6-1 CONSTRUCT AIRFIELD TRENCH DRAIN INLET  
STA. = 105+62.85  
OFF. = 75.76'L  
GRATE EL. = 83.25  
INV. EL. = 79.25
- S7 CONSTRUCT AIRFIELD MANHOLE  
STA. = 106+52.89  
OFF. = 156.94'L  
GRATE EL. = 83.92  
INV. EL. (24") = 78.75  
INV. EL. (18") = 79.80
- S7-1 CONSTRUCT TRENCH DRAIN INLET  
STA. = 106+52.98  
OFF. = 147.99'L  
GRATE EL. = 83.92  
INV. EL. = 79.92
- S7-2 CONSTRUCT TRENCH DRAIN INLET  
STA. = 106+52.89  
OFF. = 165.44'L  
GRATE EL. = 83.92  
INV. EL. = 79.92
- S7-3 CONSTRUCT TYPE "D" INLET WITH FLAP GATE OVER 12" RCP  
STA. = 106+52.89  
OFF. = 165.44'L  
GRATE EL. = 83.92  
INV. EL. (12" RCP) = 81.92  
INV. (BOX) = 81.40
- S8 CONSTRUCT STANDARD MANHOLE  
STA. = 108+53.70  
OFF. = 60.00'L  
RIM EL. = 86.10  
INV. EL. (SW) = 82.10  
INV. EL. (E) = 82.10
- S9 CONSTRUCT STANDARD MANHOLE  
STA. = 108+51.93  
OFF. = 51.49'R  
RIM EL. = 86.40  
INV. EL. = 82.40
- S9A CONSTRUCT 10 L.F. OF TRENCH DRAIN IN EXIST. PCC PAVEMENT  
STA. = 108+51.70  
OFF. = 147.32'R  
GRATE EL. = MATCH EXIST. PAVEMENT SURFACE  
INV. EL. = 24" BELOW GRATE
- S9B CONSTRUCT 10 L.F. OF TRENCH DRAIN IN EXIST. PCC PAVEMENT  
STA. = 108+51.63  
OFF. = 212.14'R  
GRATE EL. = MATCH EXIST. PAVEMENT SURFACE  
INV. EL. = 24" BELOW GRATE
- S10 CONSTRUCT MITERED END SECTION (M.E.S.) ON 24" RCP  
N:549712.96, E:1321663.73  
INV. EL. = 78.20
- S11 CONSTRUCT TYPE "C" INLET  
N:549709.37, E:1321723.72  
GRATE EL. = 82.50  
INV. EL. = 78.4
- S12 CONSTRUCT TYPE "C" INLET  
N:549582.07, E:1321716.98  
GRATE EL. = 81.70  
INV. EL. = 78.4
- S13 CONSTRUCT TYPE "C" INLET  
N:549843.15, E:1321731.35  
GRATE EL. = 82.70  
INV. EL. = 78.4
- S14 CONSTRUCT TYPE "C" INLET  
STA. = 106+90.27  
OFF. = 430.09'L  
GRATE EL. = MATCH EXIST. PAVEMENT SURFACE  
INV. EL. = MATCH EXIST. 30" RCP
- S15 CONSTRUCT TYPE "C" INLET  
STA. = 108+40.27  
OFF. = 355.07'L  
RIM EL. = 87.20  
INV. EL. = MATCH EXIST. 18" RCP
- S16 CONSTRUCT TYPE "C" INLET  
STA. = 106+78.76  
OFF. = 350.23'L  
GRATE EL. = 83.75  
INV. EL. = 82.07
- S17 CONSTRUCT TYPE "C" INLET  
STA. = 106+78.76  
OFF. = 315.23'L  
GRATE EL. = 83.75  
INV. EL. = 82.05
- S18 CONSTRUCT MITERED END SECTION (M.E.S.) ON 24" RCP  
N:549953.20, E:1321677.43  
INV. EL. = 78.00
- S19 CONSTRUCT STANDARD MANHOLE  
N:549964.70, E:1321872.63  
RIM EL. = 83.30  
INV. EL. = 79.00

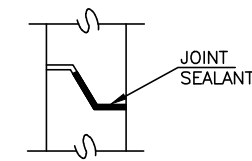
DRAINAGE PIPE SCHEDULE			
S-1	S-2	54" CLASS III RCP	234 LF
S-2	S2-1	36" CLASS V RCP	185 LF
S-2	S-3	42" CLASS V RCP	153 LF
S-3	S3-1	30" CLASS V RCP	66 LF
S-3	S-4	36" CLASS V RCP	121 LF
S-4	S4-1	18" CLASS V RCP	28 LF
S-4	S-5	30" CLASS V RCP	125 LF
S-5	S5-1	18" CLASS V RCP	28 LF
S-5	S-6	30" CLASS V RCP	113 LF
S-6	S6-1	18" CLASS V RCP	28 LF
S-6	S-7	24" CLASS V RCP	107 LF
S-7	S7-1	18" CLASS V RCP	5 LF
S-7	S7-2	18" CLASS V RCP	5 LF
S-7	S-8	18" CLASS V RCP	217 LF
S-8	S-9	18" CLASS III RCP	106 LF
S-9	S-9A	12" DIP	90 LF
S-9A	S-9B	12" DIP	57 LF
S7-3	S-16	12" CLASS V RCP	68 LF
S-16	S-17	12" CLASS III RCP	33 LF
S-14	S-15	18" CLASS III RCP	164 LF
S-10	S-11	24" CLASS III RCP	56 LF
S-11	S-12	18" CLASS III RCP	134 LF
S-11	S-13	18" CLASS III RCP	130 LF
S-18	S-19	24" CLASS III RCP	195 LF
S-19	S-20	24" CLASS III RCP	255 LF
S-20	S-21	24" CLASS III RCP	40 LF

S20 CONSTRUCT TYPE "C" INLET  
N:549949.39, E:1322125.82  
GRATE EL. = 83.60  
INV. EL. = 80.00

S21 CONSTRUCT TYPE "C" INLET  
N:549947.02, E:1322167.04  
GRATE EL. = 84.00  
INV. EL. = 80.30



ISOMETRIC VIEW



JOINT DETAIL

NOTES:

- STRUCTURE MAY BE CAST INPLACE OR PRECAST.
- IF STRUCTURE DEPTH EXCEEDS 4'-6" METAL STEPS ARE TO BE PLACED ON WALL.
- WALLS SHALL BE REINFORCED WITH WIRE MESH AT 0.2 IN. SQ./FT.
- BOTTOM SLAB AND CAP SHALL BE REINFORCED WITH #4 REBAR AT 12" O.C. EACH WAY.
- PROVIDE MANHOLE FRAME AND LID RATED FOR H-20 LOADING.

STANDARD MANHOLE DETAILS

N.T.S.



DESTIN - FORT WALTON BEACH AIRPORT



**INFRASTRUCTURE**  
CONSULTING & ENGINEERING  
5550 WEST IDLEWILD AVE. SUITE 102  
TAMPA, FLORIDA 33634 (813) 330-2701  
CERTIFICATE OF AUTHORIZATION NO.: 30862

Project Name:  
**CONSTRUCT WEST APRON EXPANSION AND INFRASTRUCTURE AT VPS**

Designer: HJ	Checked by: JNG
Technician: MA	ICE Proj. No.: 18-46

Engineer of Record:

Notes:

REVISIONS

No.	Description	Date	By
1	Addendum #1	3/29/19	JG

Drawing Name:  
**DRAINAGE DETAILS**

FAA A.I.P. Project No.:  
**3-12-0081-029-2018**

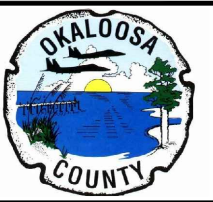
FDOT Project No.:

Date:  
**FEB 2019**

Sheet Number:  
**C4.12**



DESTIN - FORT WALTON BEACH AIRPORT



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Designer: HJ	Checked by: JNG
Technician: MA	ICE Proj. No.: 18-46

Engineer of Record:

Notes:  
1. SEE SHEET C5.1 FOR LEGEND.

**REVISIONS**

No.	Description	Date	By
1	Addendum #1	3/29/19	JG

Drawing Name:  
**PCC PAVEMENT JOINT LAYOUT PLAN NO.2**

FAA A.I.P. Project No.:  
**3-12-0081-029-2018**

FDOT Project No.:

Date:  
**FEB 2019**

Sheet Number:  
**C5.2**

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DESTIN - FORT WALTON BEACH AIRPORT



**INFRASTRUCTURE**  
CONSULTING & ENGINEERING  
5550 WEST IDLEWILD AVE, SUITE 102  
TAMPA, FLORIDA 33634 (813) 330-2701  
CERTIFICATE OF AUTHORIZATION NO.: 30862

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Designer:	HJ	Checked by:	JNG
Technician:	MA	ICE Proj. No.:	18-46

Engineer of Record:

Notes:

**REVISIONS**

No.	Description	Date	By
▲ Addendum #1		3/29/19	JG

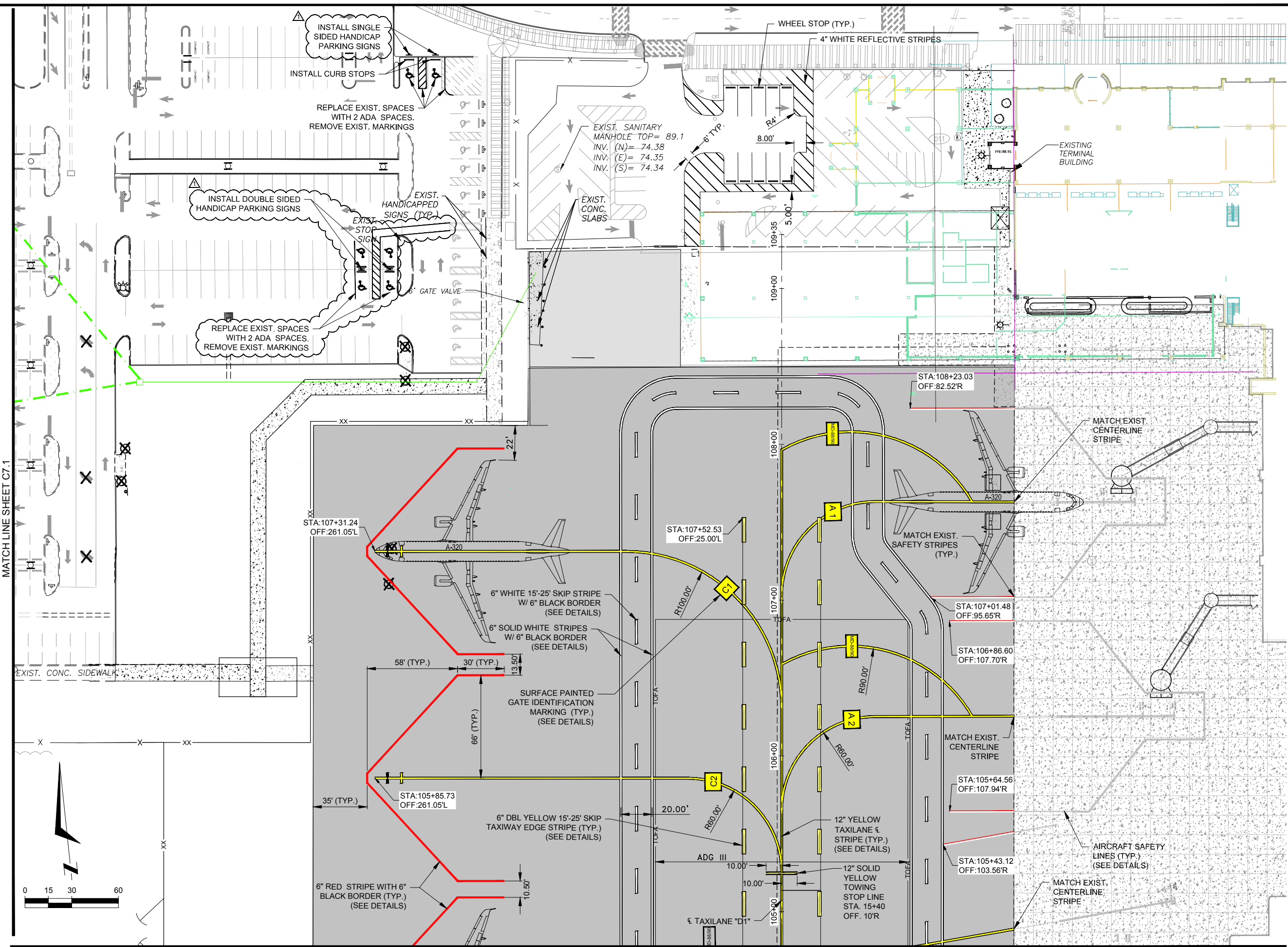
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**MARKING AND SIGNAGE PLAN NO. 2**

FAA A.I.P. Project No.:  
**3-12-0081-029-2018**

FDOT Project No.:

Date:  
**FEB 2019**

Sheet Number:  
**C7.2**



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MATCH LINE SHEET C7.1

MATCH LINE SHEET C7.3







DESTIN - FORT WALTON BEACH AIRPORT



INFRASTRUCTURE CONSULTING & ENGINEERING  
5550 WEST IDLEWILD AVE. SUITE 102  
TAMPA, FLORIDA 33634 (813) 330-2701  
CERTIFICATE OF AUTHORIZATION NO.: 30862

Project Name:  
**CONSTRUCT WEST APRON EXPANSION AND INFRASTRUCTURE AT VPS**

Designer: HJ  
Checked by: JNG  
Technician: MA  
ICE Proj. No.: 18-46

Engineer of Record:

Notes:

REVISIONS

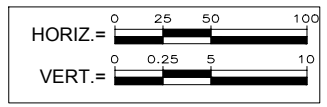
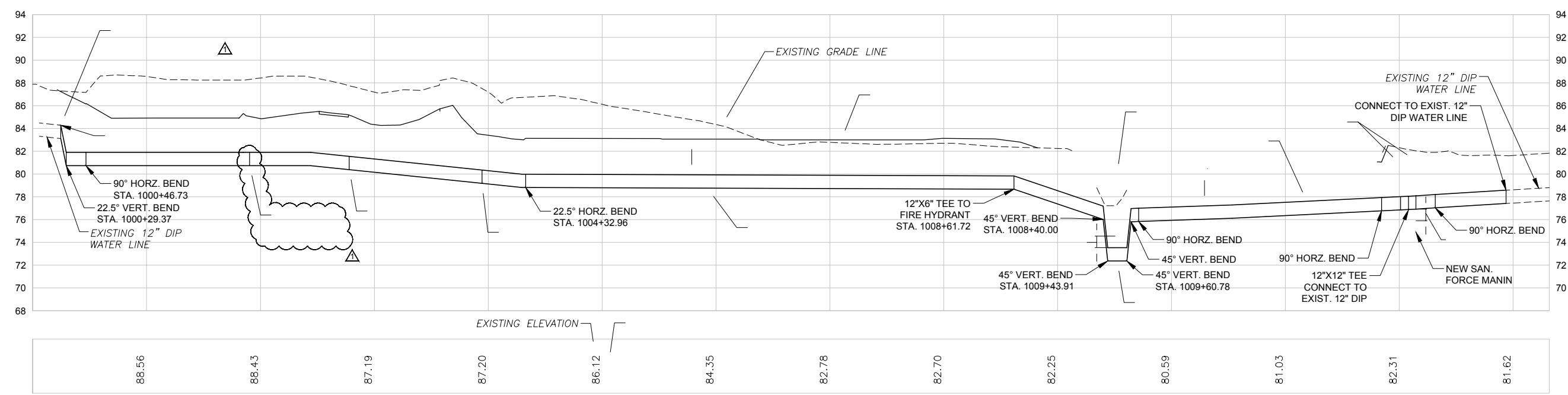
No.	Description	Date	By
△	Addendum #1	3/29/19	JG

Drawing Name:  
**WATER MAIN PROFILE**

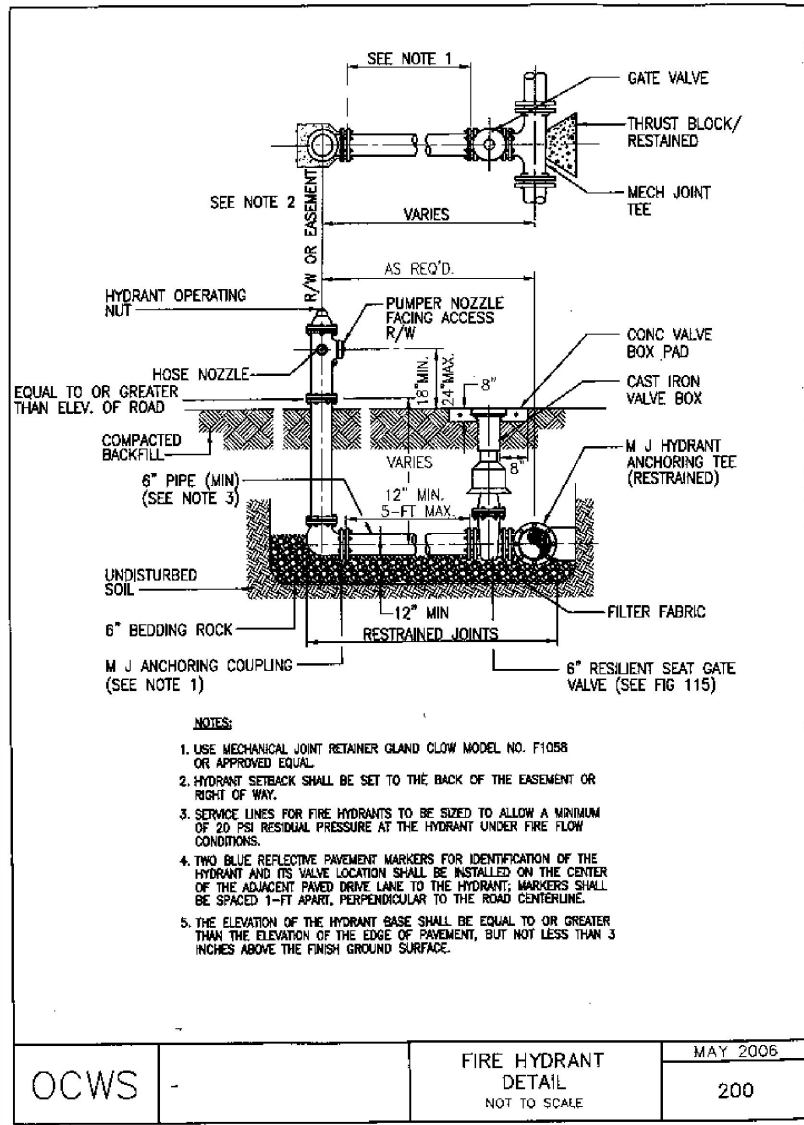
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**3-12-0081-029-2018**

FDOT Project No.:

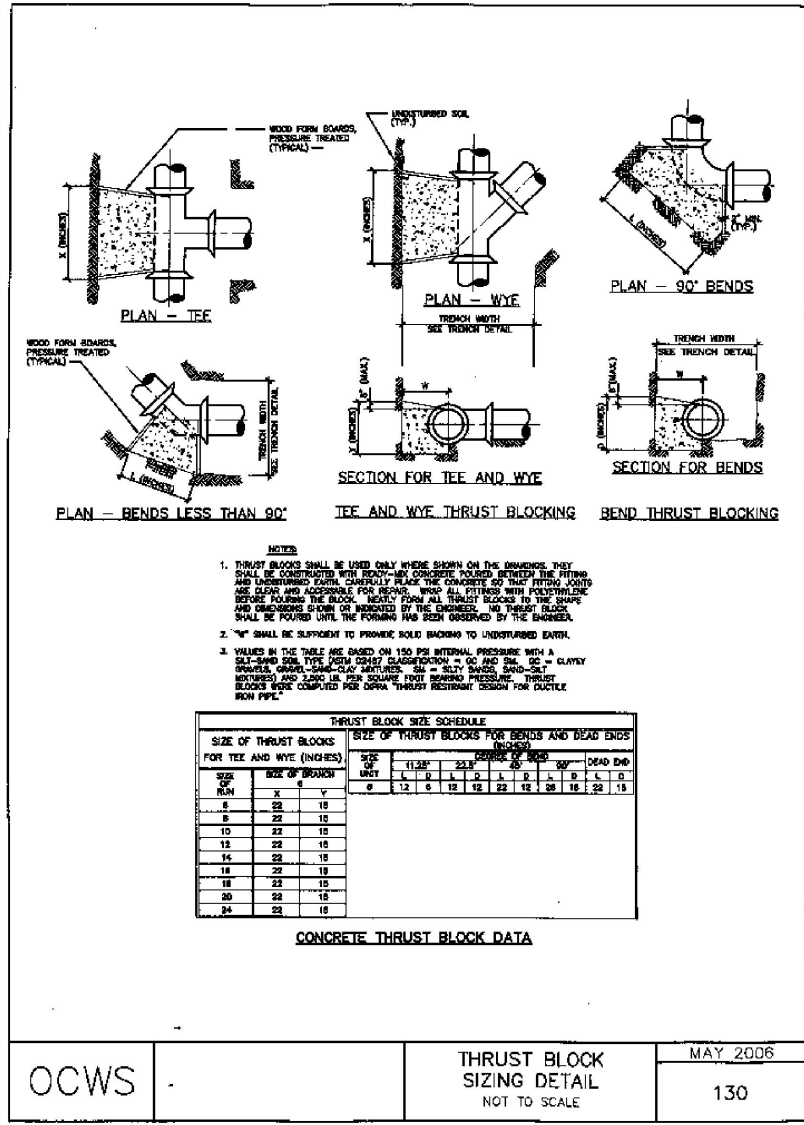
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Sheet Number: C8.6



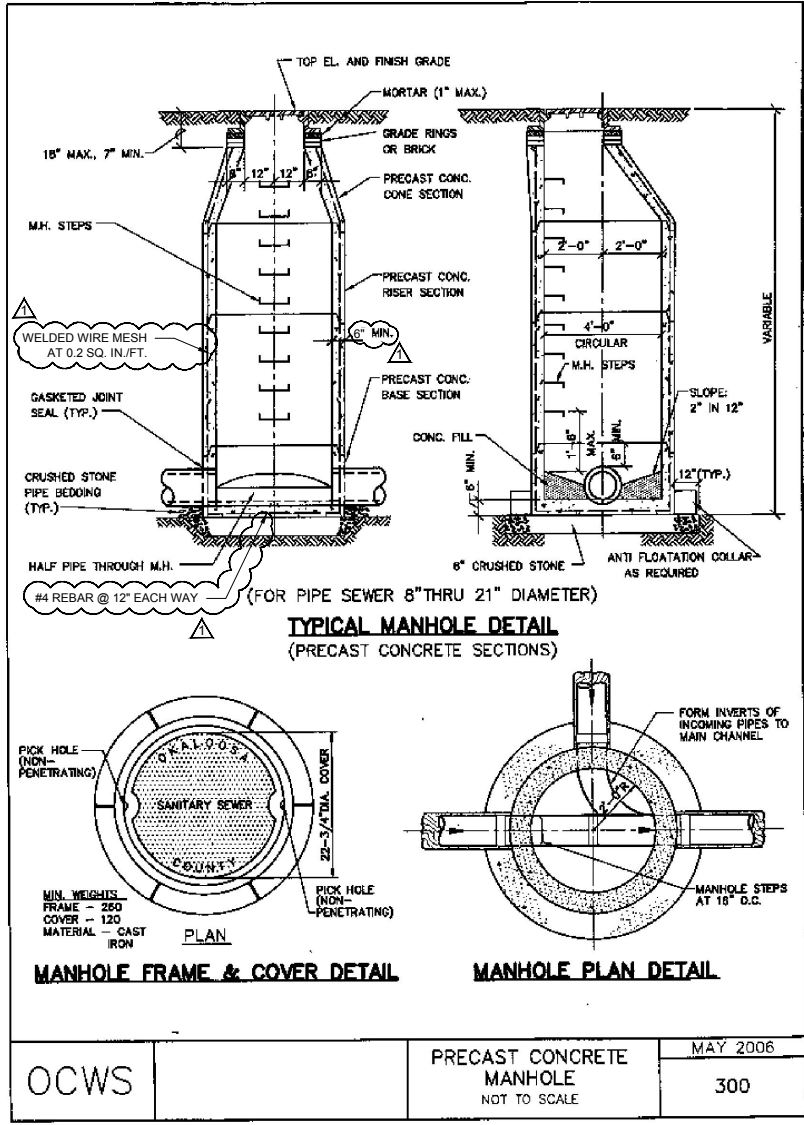
Date: 3/29/2019 11:11



OCWS - FIRE HYDRANT DETAIL NOT TO SCALE MAY 2006 200



OCWS - THRUST BLOCK SIZING DETAIL NOT TO SCALE MAY 2006 130



OCWS - PRECAST CONCRETE MANHOLE NOT TO SCALE MAY 2006 300

**NOTE:**  
DETAIL SHOWN IS FOR A STANDARD MANHOLE. CONTRACTOR TO PROVIDE STRUCTURAL DESIGN FOR AIRCRAFT RATED MANHOLES. AIRCRAFT RATED MANHOLES AND COVERS TO BE RATED FOR 100,000 LB DUAL WHEEL LOAD WITH 250 PSI TIRE PRESSURE.

**NOTES:**

- RESTRAIN 11.25° BENDS 50% OF LENGTH FOR 22.5° BENDS.
- ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
- ALL ISOLATION VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
- PIPE SIZES ARE GIVEN IN INCHES.
- RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET.
- LENGTHS SHOWN ARE FOR A TEST PRESURE OF 180 PSI.

**REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DIP**

MAIN PIPE SIZE	HORIZ. BENDS			TEES						REDUCERS				PLUGS & VALVES
	90°	45°	22.5°	SIZE		LENGTH				SIZE		LENGTH		
36	100	42	20	x36	x30	x24	x20	x16	x12	x12	x10	x8	x6	188
30	88	37	18	x30	x24	x20	x16	x12	x10	x10	x8	x6	x4	162
24	75	31	15	x24	x20	x16	x12	x10	x8	x8	x6	x4	x3	135
20	65	27	13	x20	x16	x12	x10	x8	x6	x6	x4	x3	x2	116
16	54	22	11	x16	x12	x10	x8	x6	x4	x4	x3	x2	x1	96
12	43	18	8	x12	x10	x8	x6	x4	x3	x3	x2	x1	x1	75
10	37	15	7	x10	x8	x6	x4	x3	x2	x2	x1	x1	x1	63
8	30	13	6	x8	x6	x4	x3	x2	x1	x1	x1	x1	x1	53
6	24	10	5	x6	x4	x3	x2	x1	x1	x1	x1	x1	x1	41
4	17	7	3	x4	x3	x2	x1	x1	x1	x1	x1	x1	x1	29



DESTIN - FORT WALTON BEACH AIRPORT



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Designer: HJ Checked by: JNG

Technician: MA ICE Proj. No.: 18-46

Engineer of Record:

**REVISIONS**

No.	Description	Date	By
1	Addendum #1	3/29/19	JG

**UTILITY DETAILS**

FAA A.I.P. Project No.: 3-12-0081-029-2018

FDOT Project No.:

Date: FEB 2019 Sheet Number: C8.8



**SUMMARY TO MINUTES  
OF  
PRE-BID CONFERENCE  
FOR  
WEST APRON EXPANSION AND INFRASTRUCTURE AT VPS**

DESTIN-FORT WALTON BEACH AIRPORT

March 20, 2019 1:00 PM

---

**1. INTRODUCTION**

- Sign-in Sheet.

**2. INSTRUCTIONS FROM PURCHASING**

- Refer to the Instructions to Bidders and Notice To Bidders.
- Deadline for questions is April 1, 2019 at 3:00 PM.

**3. SUBMITTAL**

- The **Bid opening date is Wednesday April 10th, 2019 at 3:15 PM** (local time) in the Okaloosa County Courthouse, 101 E James Lee Boulevard, Room 282, Crestview FL.

**4. PROJECT SCOPE**

The Project will include the following items:

- Construction of a 27,700 SY terminal aircraft apron expansion which includes concrete and asphalt pavement of varying thicknesses.
- Construction of a 12,000 SY expansion of the credit card parking lot and demolition of a portion of the existing credit card lot.
- Construction of a covered walkway.
- Demolition of existing 6” and 12” DIP water line and construction of new 6” and 12” PVC water line.
- Demolition of an existing sanitary sewer lift station and construction of a new lift station.
- Demolition of existing 2” and 6” PVC force mains
- New 8” PVC gravity sanitary sewer, including 2 airline lavatory cart dump stations.
- Storm drain pipes and structures.
- Parking lot and high mast apron lighting.
- Apron edge lighting
- Temporary and permanent chain link fence.
- Landscaping and Irrigation
- Sodding and grassing
- Pavement Marking, including surface painted signs.

## 5. CONSTRUCTION SAFETY & PHASING PLANS

- The phasing plans are shown on Sheets G3.0 thru G3.8.
- Temporary fencing shown on Sheet G3.1 must be installed before beginning any other work. The temporary gate along SR 85 will be the sole access point for all work except for Dump Station #2, which will be through the existing east apron gate. The contractor will be responsible for maintaining security of the temporary gate along SR 85 and will need to post a gate guard anytime the gate is not locked.
- Expansion of the Credit Card Parking Lot (Phase 1) must be completed and put in service before any parking lot demolition work (Phase 3) can begin. The contractor will have 120 days from the NTP to complete this work.
- Phase 2 will consist of clearing and grubbing of the wooded area, site demolition outside of the credit card lot, and relocation of electrical, water and sewer. Work with the taxilane OFA must be done on a pull back basis so that the apron taxilane can remain open at all times. All personnel and equipment must be pulled out of the OFA when aircraft are operating in the OFA. Existing water and sewer systems must remain in service until the new systems are ready to be put online. Connections to new water lines must be done at night. Phase 2 work may be performed concurrent with Phase 1.
- Phase 3 consist of demolition work in the existing credit card lot which cannot begin until Phase 1 is complete and the credit card lot expansion area is open.
- Phase 4A consist of grading, drainage and paving of the apron expansion, and construction of the covered walkway. As with Phase 3, work within the Taxilane OFA must be performed on a pull back basis. Work in this phase may be performed concurrent with Phases 1, 2 and 3.
- Phases 4B and 4C include storm drain line along the west end of the terminal building in front of the baggage handling area. Phase 4B also includes paving of the asphalt GSE area at the north end of the apron. Phase 4C can only be performed between approximately 9:00 P.M. and 5:00 A.M. Any open trenches remaining at 5:00 A.M. must be covered with a steel plate so that baggage carts may operate. The precise hours available for nightwork are dependent upon the airlines schedules, which are subject to change beyond the Airport's control. Work would not be able to begin until after the last flight in the evening and would need to end prior to the first flight in the morning.
- Work in Phase 4 may be performed concurrent with Phases 1 and 2, except for work that overlaps with Phase 3. Phases 4B and 4C may not be performed concurrently.
- Phases 5 thru 8 consist of milling and resurfacing of the asphalt pavement for gate areas A-1, A-2, A-3 and B-6. Work in these phases cannot begin until Phase 4 is complete and the temporary markings on the new apron pavement are installed. These phases must be done in sequence without overlap so that only one gate area at a time is closed. The contractor shall have 13 calendar days to complete Phases 5 thru 8. Work within the Temporary Relocated Taxilane OFA must be done on a pull-back basis.
- Night work for any phase will be permitted provided sufficient notice is provided to owner and engineer.
- The existing sanitary sewer and water line systems must remain in service until they are ready to be connected to the existing. Connections between the new and existing systems must be performed in a single nighttime shift between approximately 12:00 AM and 5:00 AM. The precise hours available for nightwork may be affected by airlines schedules, which are subject to change beyond the Airport's control.
- The existing lavatory dump station must remain in service until the new dump station #2 on the east side of the terminal apron is complete and in service.

## 6. STAGING AREA- HAUL ROUTES

The staging areas shown are approximate. The actual staging sites are to be approved by the Airport. An Engineer's office or trailer is to be provided in the staging area. Access to the project site is off of SR 85 N through the temporary gate, except that access to the 2<sup>nd</sup> Lavatory Cart Dump Station on the east side will be through the existing east apron gate. No construction traffic will be allowed on the terminal loop road.

## 7. WORK RESTRICTIONS (SECTION 01010 OF PROJECT MANUAL)

- This project involves work on an active airfield. Thus, the Contractor may be restricted from working in areas closest to the active runway and taxiways/taxilanes. The Contractor shall restrict his activity to within the access routes and work areas shown in the plans.
- The *Contractor* must provide necessary information on construction conditions so that NOTAM's can be issued - such as for a taxiway closure.
- Existing airfield pavements are not to be used as a haul route without permission from the Owner except where otherwise indicated.
- Vehicles used on the airfield shall meet FAA and VPS requirements for marking and lighting.
- Only the Owner can close active airfield areas - closures must be coordinated with the Engineer and Airport Manager.
- The contractor is not to work within any taxilane or taxiway object free area (OFA) unless that taxiway or taxilane has been closed to traffic.

## 9. DISADVANTAGED BUSINESS ENTERPRISES (DBE) REQUIREMENTS

There is a 25.01% DBE goal for this project. All DBE firms must be certified by the Florida United Certification Program. Work must be done by the DBE to count toward the goal. Work completed by a subcontractor to the DBE will not count unless the subcontractor is also a certified DBE. Bidders must meet this goal or demonstrate a good faith effort in accordance with 49 CFR Part 26. A bid form for documentation of good faith efforts will be provided via addendum.

## 10. INSURANCE REQUIREMENTS

Bidders are to familiarize themselves with the insurance requirements stipulated in the Okaloosa County Standard Clauses contained in the Front End Documents section of the Project Manual. There are additional insurance requirements in Article 5 of the General Conditions that will either be modified or removed in an addendum.

## 11. CONTRACT TIME AND LIQUIDATED DAMAGES

1. Construction will be substantially completed in accordance with the contract time of 350 calendar days as stipulated in Section 01010 of the Project Manual. The successful Bidder will commence

work with an adequate force and equipment at the time stated in the Notice to Proceed, and complete all work in the number of days stipulated from the date stated in said Notice.

2. Liquidated damages for failure to substantially complete all work within contract time for identified phases and for failure to complete all punch list items within 30 days of the date of the substantial completion punchlist generated by the Engineer after the contractor submits a Notice of Substantial Completion will be assessed as prescribed in Section 01010. Liquidated damages are not cumulative.

## **12. ESTIMATED QUANTITIES**

Where quantities of work are given in the BID, these quantities are approximate and are assumed solely for comparison of the BIDS; they are not guaranteed to be accurate statements or estimates of quantities of work that are to be performed under the Contract. It is presumed that the BIDDER has verified the quantities necessary to complete the work of the Contract as intended, and any departure therefrom will not be accepted as valid grounds for any claim for damages, for extension of time, or for loss of profits. Nor will any additional payment be made, regardless of the actual quantities required or ordered to complete the Work (Ref. GP-40-02, 03 and 04 for alteration of quantities and changes).

## **13. STAKING (SECTION 01040, 3.02A AND GP 50-07)**

- a. The Contractor is responsible for all staking.
- b. There are benchmarks to work from.
- c. Cost of survey and staking is incidental to various contract items.

## **14. QUALITY CONTROL vs QUALITY ASSURANCE TESTING (SECTION 01400)**

Responsibilities:

- a. Contractor Responsibilities: Contractor is responsible for his own Quality Control testing and inspection to insure that the quality of his means and methods of construction will produce the specified quality of work, and for any tests and inspections required by regulatory agencies. Costs for these services shall be included in the Contract Sum. The Contractor may employ and pay an independent agency, testing laboratory or other qualified firm to perform quality control services specified, (i.e., concrete and asphalt production, mix designs, steel mill, construction procedures for concrete, soil and asphalt) or perform in-house Quality Control services.
- b. The Owner will engage and pay for the services of an independent agency to perform inspections and tests of materials for Quality Assurance. This is a check after work has been performed (i.e., soil proctors and density, and asphalt).
- c. Retest Responsibility: Where results of required inspections or tests of similar services prove unsatisfactory and do not indicate compliance with the requirements of the Contract Documents, then re-tests are the responsibility of the Contractor, regardless of whether the original test was the Contractor's responsibility. If any additional costs are incurred, this will be deducted from the amount due to the Contractor.

Re-testing of work revised or replaced by the Contractor is the Contractor's responsibility, where required tests were performed on original work. The Contractor must submit a quality control plan in accordance with the contract documents.

**15. SECURITY FENCE /ACCESS GATES**

The existing AOA and SIDA fences are to remain secure at all times. A temporary fence and access gates are to be provided as shown on the Project Layout Plan (Sheet G1.1) If the contractor requires additional temporary fence is needed to keep the airport secure, it will be or at no additional cost to the airport. Vehicles cannot enter the SIDA area without undergoing an inspection. The Contractor is to assign personnel to perform these inspections who will be required to take a 4 hour training course at the Airport. Inspections must be in accordance with the Transportation and Security Administration (TSA) requirements. All temporary gates shall be manned with a gate guard provided by the contractor at all times or locked.

The cost of gate guards and vehicle inspections shall be considered incidental to the contractor's mobilization costs. The contractor's employee personal vehicles will not be allowed inside the AOA or SIDA fence but can be parked in the staging area.

The Airport will perform inspections of vehicles entering through the east gate to access the east lavatory dump station work.

**16. PERMITS**

The Engineer will obtain an Environmental Resource Permit (ERP) from the Florida Department of Environmental Protection (FDEP) and a Development Order approval from Okaloosa County. The Contractor is responsible for obtaining all other permits required for construction. An allowance for County water and sewer permit fees will be added via addendum to the bid schedule.

**17. PROTECTION OF EXISTING PAVEMENT**

Existing pavements may not be able to support fully loaded trucks. The Contractor is to exercise caution when running equipment over existing pavements, and is responsible for repairing any damage caused by doing so. It is recommended that Bidders closely examine the existing pavements to satisfy themselves as to the strength of the pavement. The Contractor will not be allowed to use existing runways and taxiways as haul routes unless specifically authorized by the Engineer.

**18. SAFETY ITEMS**

- a. Contractor shall designate or employ a Construction Safety Officer to be the liaison between the Contractor and the Engineer and Owner in all safety related matters for the duration of the project.
- b. Contractor shall coordinate apron, taxilane or taxiway closures with the RPR before commencing any work on the airfield. Only the Airport can close an active airfield pavement.
- c. Contractor shall supply, install, and maintain barricades where work areas are adjacent to active airfield pavements or to close airfield pavements as shown in the plans or directed by the Engineer.

The Contractor shall also supply, install and maintain construction haul route signs, haul route & taxiway/taxilane OFA delineators and "Construction Ahead" signs as detailed in the plans.

- d. Contractor shall keep all active airfield pavements clean of construction dirt and debris and shall have equipment onsite at all times for doing so and shall have a water truck onsite at all time for controlling dust.
- e. A project Construction Safety and Phasing Plan (CSPP) is contained in the appendix to the Project Manual. The contractor will be required to prepare and submit a Safety Plan Compliance Document in accordance with FAA Advisory Circular 150/5370-2F. A copy of this circular is contained in an appendix to the CSPP.

## 19. **SECURITY BADGING**

- a. The prime Contractor is responsible for all Subcontractor badges, as well as his own, and will be signing all forms.
- b. There is a \$60 non-refundable fee for I.D. badges and a \$100 penalty if the badge is not returned at the end of the project.
- c. All persons working alone inside the AOA or SIDA area will need a badge unless under escort and **direct control**. Those people always working in a group with someone with a badge will not need a badge. People without a badge will need to be within visual and audible range of a badged person.
- d. All vehicles will need to have company identification on both sides of the vehicle and must have a yellow flashing light mounted on the roof.
- e. All persons who apply for a badge must be fingerprinted at the Airport and have a five year background check completed. After results of the fingerprint based background check is approved, the applicant will need to return to the Airport to complete a 2 hour SIDA test.

## 20. **PREPARATION AND SUBMISSION OF BIDS**

- a. Read the Instructions to Contractors in the Project Manual carefully.
- b. Complete and submit all Bid Forms.
- c. Each bid must be accompanied by: Bid Security made payable to Owner, in an amount of five (5) percent of the Bidder's maximum Bid Price in the form of a certified or bank check or a Bid Bond prepared on the Bid Bond form included in the Bid Forms, duly executed by the Bidder as principal, and issued by a surety meeting the requirements of Paragraph 5.1 of the General Conditions.
- d. All Bidders must be licensed contractors in accordance with the Laws of Florida.
- e. Bids shall be submitted at the time and place indicated in the Advertisement. Each Bid shall be contained in a sealed envelope marked along with the project name as stated in the Notice To Bidders, and the Bidder's name. Do not write any bid amount or other information on the envelope. The original copy plus 2 copies of all Bid Forms, Schedules and other required documents is required for submission of Bid. **DO NOT SUBMIT THE PROJECT MANUAL OR DRAWINGS WITH BID.**

- f. Bids will be opened and read aloud publicly.
- g. Bids shall remain open for 90 days.

**21. NOTICE-TO-PROCEED**

Notice-to-proceed date is anticipated to be: May 13, 2019 or shortly thereafter.

**22. SITE VISIT**

Attendees were offered a visit the project site at the conclusion of the meeting but none accepted.

**23. QUESTIONS AND OPEN DISCUSSION ITEMS**

All questions after the conclusion of this meeting about the meaning or intent of the Contract Documents shall be submitted to Victoria Taravella, Contracts & Lease Coordinator (vtaravella@myokaloosa.com) in writing. Replies, when considered necessary by the County, will be issued by Addenda to be posted on the purchasing department page of the County website (<http://www.myokaloosa.com/purchasing/home>) and at <https://www.bidnetdirect.com/florida>.

Okaloosa County Purchasing Department  
ATTN: Victoria Taravella  
5479 Old Bethel Road, Suite A  
Crestview, FL 32536  
Tel: 850-689-5960  
Fax: 850-689-5970

Questions received after 5:00 P.M. on Monday, April 1, 2019 will not be answered. Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

Question #1: Sheet G1.1 shows a significant difference in the parking lot expansion between the plans originally posted and the revised plans. There are also significant differences in the quantities between the originally posted bid schedule quantities and the revised. What is correct?

**Response:** All documents originally posted under ITB-AP-38 are to be disregarded. The documents posted under ITB-AP-51 has replaced them. Please note that the boring logs in the Geotechnical Report in Appendix A to the Project Manual and the drawings in Appendix E to the Construction Safety and Phasing Plan (CSPP) that is in Appendix A to the Project Manual have been corrupted and should be ignored. Correct copies of these boring logs and drawings are included in the Construction Plans.

Question #2: The Construction Schedule on Sheet G3.0 states the contractor has 13 days to complete Phases 5 through 8, while on Sheets G3.4 through G3.8 it states 48 hours is allowed for each of these phases. Which is correct?

**Response:** The construction Schedule on Sheet G3.0 is correct. The Contractor will have 13 calendar days to complete Phases 5 through 8. There is no time limit on each phase as long as all 4 phases are completed in 13 days.

Question #3: Does the Airport want to retain the temporary covered walkway after the job is complete?  
**Response: No, the temporary covered walkway must be removed from the airport at the end of the job.**

Question #4: Is Phase 1 and Phases 5 through 8 the only phases for which there will be liquidated damages (LDs)?

**Response: Yes, and for the entire project. There will be LD's for failure to complete Phase 1 in 120 days from the Notice to Proceed, for failure to complete Phases 5 through 8 in 13 days and for failure to complete the entire project in 350 days, however the LD's will not be cumulative. In other words, if you overrun the time for Phases 5 thru 8 and the total contract time, you will only be assessed LD's for failure to complete the total contract on time. The Airport stressed that LD's would be strictly adhered to.**

Question #5: Where is the engineer's office trailer to be located?

**Response: In the staging area south of the credit card lot.**

Question #6: What is the estimated cost?

**Response: \$8 million.**

The Airport noted that the future Terminal Building Expansion (Baggage Handling System) and Concourse Building projects shown in green on Sheet G1.1 are not part of this contract. However, work on these projects -may begin within the time frame of this project and coordination with the contractor(s) working on them may be necessary.

#### **END OF MEETING**

ATTACHMENTS: List of Attendees (Sign-In Sheet)



# Pre-Bid Conference

Date: March 20, 2019 @ 1:00 PM

## Construct West Apron Expansion and Infrastructure at VPS

Sign in sheet

ITB 51-19

Name	Company	Phone	email
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