Office of Procurement

Conway, SC 29526



3230 Hwy 319 E Conway, SC 29526

843.915.5380 (Ph) 843.365.9861 (Fx)

TO: ALL INTERESTED PARTIES

FROM: Kimberly Massie, CPPB,

Director of Procurement

DATE: May 31, 2018

SUBJECT: ADDENDUM #1

IFB # 2017-18-719 Taxiway A Rehabilitation - Bid Package 1 at Myrtle

Beach International Airport (MYR)

ADDENDUM #1

This Addendum forms a part of the bid documents for this project and modifies/amends/clarifies/adds to the original documents as described below. Acknowledgement of receipt and inclusion of the effects of this addendum shall be included on each offeror's form of proposal.

NOTICE of REVISIONS:

PROJECT MANUAL:

Special Provisions

1. REVISE the last sentence of the second paragraph of SP-26 "Subgrade Undercut" to read as follows:

"In areas to be paved, ground stabilization fabric shall be installed in accordance with Item P-405 "Ground Stabilization Fabric" and the area backfilled with either crushed aggregate subbase material in accordance with Item P-209 "Crushed Aggregate Base Course" or select material backfill in accordance with Item P-152 "Excavation, Subgrade, and Embankment". The type of material shall match that of the above pavement layer; i.e., P-209 Crushed Aggregate Base Course shall be used for Type 1, 2, 4, 5, and 6 pavement, while P-152 Select Material Backfill shall be used for Type 3 and 7 pavement."

2. ADD the following as the last paragraph of SP-26 "Subgrade Undercut":

"Payment for furnishing and placing the select material backfill shall be made at the contract unit price per cubic yard for Item P-152 "Select Material Backfill", which price shall be full compensation for furnishing all materials, for all preparation, hauling, and placing of these materials, and for all labor, equipment, tools, and incidentals necessary to complete the work."

DRAWINGS:

Sheet 20 of 192

3. **REVISE** the first sentence of Note 4 to read as follows:

"PAYMENT WILL BE MADE FOR PLACEMENT UP TO 4,000 TONS OF ITEM R-305 SCDOT STONE FOR THE CONTACTOR'S STAGING AREA AND BATCH PLANT LOCATION."

- **4. ADD** the following Note 6:
 - "6. IN ORDER TO RESERVE SPACE FOR A FUTURE BATCH PLANT FOR SUBSEQUENT PROJECTS, THE CONTRACTOR'S BATCH PLANT SITE SHALL BE LIMITED TO A MAXIMUM AREA OF 4 ACRES. THE ENGINEER SHALL PROVIDE DIMENSIONS OF THE AREA FOR THE CONTRACTOR'S USE PRIOR TO THE NOTICE-TO-PROCEED."

Sheet 80 of 192

- **5. ADD** the following Note 2 to the "TYPE 7 TEMPORARY BITUMINOUS TAXIWAY PAVEMENT SECTION":
 - "2. EXCAVATION REQUIRED TO PLACE THE P-152 SELECT MATERIAL BACKFILL SHALL BE PAID FOR UNDER THE P-152 UNCLASSIFIED EXCAVATION PAY ITEM."

Sheet 82 of 192

6. REPLACE the "STORMWATER MANAGEMENT RECTANGULAR JUNCTION BOX (STRUCTURE D106)" detail with the revised "STORMWATER MANAGEMENT RECTANGULAR JUNCTION BOX (STRUCTURE D106)" detail shown in Exhibit No. 82-1 of Addendum #1.

Sheet 83 of 192

7. ADD the "STORMWATER MANAGEMENT STRUCTURE (D112)" detail shown in Exhibit No. 83-1 of Addendum #1.

Addendum #1 IFB # 2017-18-719

Sheet 92 of 192

- 8. ADD the following Note 4 to the "TYPE 3 PCC TAXIWAY PAVEMENT SECTION" detail:
 - "4. EXCAVATION REQUIRED TO PLACE THE P-152 SELECT MATERIAL BACKFILL SHALL BE PAID FOR UNDER THE P-152 UNCLASSIFIED EXCAVATION PAY ITEM."

Sheet 112 of 192

- **9. ADD** the following Note 3:
 - "3. THE FAA FIBER OPTIC CABLE IS 12 STRAND SINGLE MODE."
- **10. ADD** the following Note 4:
 - "4. THE AIRPORT FIBER OPTIC CABLE IS 96 STRAND SINGLE MODE."
- **11. ADD** the following Note 5:
 - "5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER 24 HOURS IN ADVANCE OF DISRUPTION OF SERVICE TO THE AIRPORT FIBER OPTIC CABLE. SERVICE SHALL BE RESTORED WITHIN 8 HOURS OF DISRUPTION."

QUESTIONS/ANSWERS

Question #1: The question was asked during the pre-bid meeting that stone excavated from the site can be put in the millings stockpile area. Please verify that this is the case.

Answer: Yes, excavated stone may be put in the millings stockpile area.

Question #2: Would the Owner consider setting up a bid item for temporary seeding?

Answer: No, there will not be a bid item for temporary seeding.

Question #3: Is the clearing and grubbing item strictly for the temporary batch plant site?

Answer: Yes, the clearing and grubbing pay item is exclusive to the batch plant area.

Question #4: Can the contractor use P-304 CTB base in lieu of P-306 econocrete? If so can you please provide the P-304 specification.

Answer: Yes, as stated in Note 2 of the "Type 1 PCC Taxiway Pavement Section" and "Type 3 PCC Taxiway Pavement Section" details on Sheet 92 of 192, "The Contractor may

Addendum #1 IFB # 2017-18-719

substitute P-304 Cement Treated Base Course for the P-306 Lean Concrete Pavement. Payment for the P-304 Cement Treated Base Course, if used by the Contractor, in lieu of P-306 Lean Concrete Pavement, will be made at the contract unit price per square yard for P-306 Lean Concrete". Specification Item P-304 Cement Treated Base Course was included in the As-Bid Specifications.

Question #5: Please clarify the bedding for Rigid concrete pipe. The specification states that all rigid pipe will be in a concrete cradle (701-3.2a) whereas the detail (sheet 82 of 192) shows crushed aggregate base for bedding.

The specification states a concrete cradle is required for Class A pipe bedding. The details on Sheet 82 of 192 call for Class B bedding which consists of a bed of crushed aggregate as noted in Item D-701-3.2a.

Question #6: Please clarify that the P-209 Backfill will be paid for under the bid item #26 for P-209 as stated on the details (sheet 82 of 192). The bedding is incidental to the pipe but the backfill is to be paid for as per detail notes.

Answer: Yes, the pipe bedding is incidental to the cost of the pipe as shown in the details. The aggregate backfill between the pipe bedding and the pavement section shall be paid for under the P-209 Crushed Aggregate Base Course pay item.

Question #7: The bid items for Pot-Holing the amount of holes to be dug is not specified. Can we have a guideline to use? Say every 200 ft or what can be expected?

The number of pot holes shall be such that the Contractor has sufficient information to satisfy themselves on the depth and alignment of all underground utilities.

Question #8: Will the airport state that the Batch plant set up will not be required to be hurricane proof?

The Airport will not require the batch plant to be hurricane proof. The Contractor shall ensure that his equipment meets all federal, state, and local safety requirements

Question #9: Are gate guards required when the gate access is open and being used by the contractor?

Answer: Yes, any temporary opening in the perimeter fence shall be continuously observed by the Contractor's designated employee. Reference is directed to Project Note No. 21 on Sheet 4 of 192.

4 Addendum #1 IFB # 2017-18-719

Answer:

Answer:

Answer:

Question #10: Are escorts required for delivery trucks onsite?

Answer: Escorts are required for any vehicles accessing the Aircraft Operations Area operated

by personnel without a valid Airport security badge. All escorts will be provided by the

Contractor.

Question #11: Is there a possible waste site on airport property for excess excavation coming

from the cut or from the pipe excavation?

Answer: There is no location for a waste site on the airport property. All excess excavation shall

be disposed of off-site in accordance with local, state, and federal guidelines. Reference

is directed to Project Note No. 40 on Sheet 4 of 192.

Question #12: Will there be any aircraft parking planning and striping at the gate required for

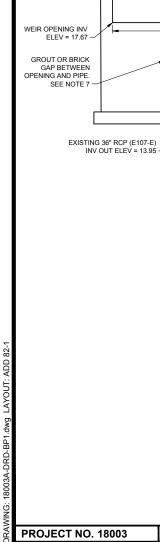
this project??

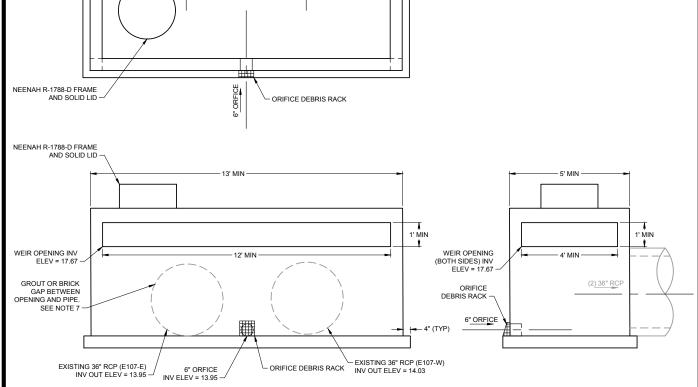
Answer: No.

ATTACHMENTS:

- 1. Exhibit No. 82-1, "Stormwater Management Structure (D106)" Detail
- 2. Exhibit No. 83-1, "Stormwater Management Structure (D112)" Detail
- 3. Pre-bid meeting attendance list
- 4. Pre-bid meeting agenda
- 5. Pre-bid meeting presentation

This Addendum does not change the due date/time or any terms and conditions of the solicitation.





6" MIN (TYP)

1. CONSTRUCTION AND STEEL REINFORCING SHALL BE IN CONFORMANCE WITH ASTM C890 AND ASTM C913

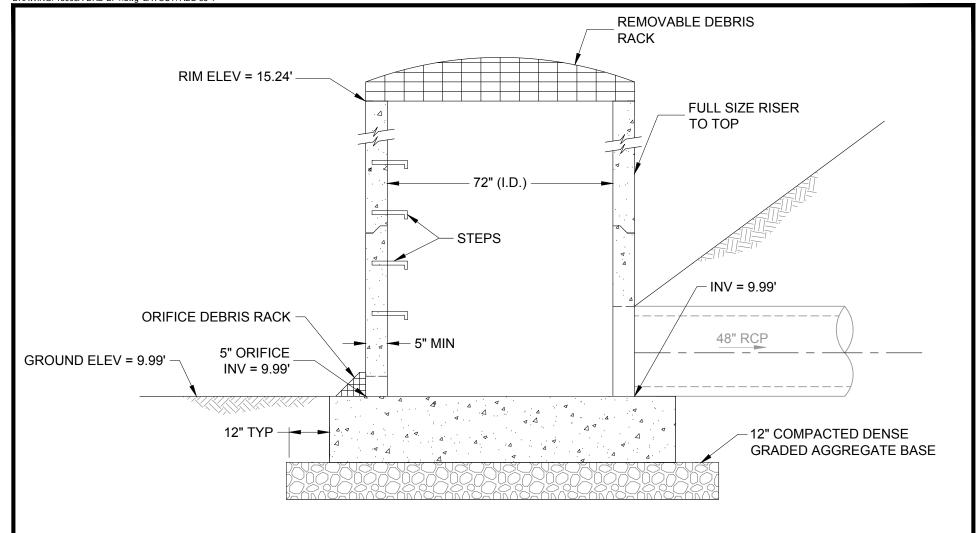
STORMWATER MANAGEMENT RECTANGULAR JUNCTION BOX (STRUCTURE D106)

- 2. CONCRETE SHALL BE 4000 PSI MINIMUM.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DESIGNS (INCLUDING STRUCTURAL CALCULATIONS AND ASSUMPTIONS) SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA FOR BASES, RISERS, AND TOP SLABS. THE SHOP DRAWING FOR EACH STRUCTURE SHALL BE COMPLETE WITH BASE, RISER(S), TOP SLAB, FRAME AND GRATE(S), STEPS, REINFORCING, ETC. PRIOR TO SUBMITTAL.

SEALED SHOP DRAWING OF STRUCTURE SHALL INCLUDE OR SHOW, AS A MINIMUM:

- STEEL REINFORCEMENT SIZES AND SPACING
 CONCRETE WALL, BASE AND TOP SLAB THICKNESS
 ROUGH PIPE OPENINGS AND THEIR INVERTS
- . FINISHED FLOW LINE INVERTS
- STEP LOCATION WITH RESPECT TO LID OR GRATE
 CERTIFICATION THAT STRUCTURE MEETS ASTM C-478 REQUIREMENTS
- DESIGN LOADING: H20 LOADING
- 5. BASE SLAB SHALL BE INCIDENTAL TO STRUCTURE. EXTEND BASE SLAB AS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE GASKETED (ASTM C443) JOINTS FOR ALL CONCRETE STRUCTURES INSTALLED UNDER THIS PROJECT. THE CONTRACTOR SHALL INSTALL STANDARD STEPS IN ALL STRUCTURES. THE CONTRACTOR SHALL INSTALL INLET SHAPING IN ALL DRAINAGE STRUCTURES. NO SEPARATE MEASUREMENT WILL BE MADE FOR THE ABOVE REFERENCED ITEMS.
- 7. GROUT SHALL BE TYPE S MORTAR MATERIAL IN ACCORDANCE WITH SECTION 718 OF THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).

ADDENDUM NO. 1 EXHIBIT NO. 82-1 SHEET NO. 82 OF 192 DATE: 31 MAY 2018 PROJECT NO. 18003



STORMWATER MANAGEMENT STRUCTURE (D112)

NTS

NOTES:

1. SEE "NON-AIRCRAFT RATED MANHOLE AND DROP INLET DETAIL" FOR NOTES.

PROJECT NO. 18003 ADDENDUM NO. 1 EXHIBIT NO. 83-1 SHEET NO. 83 OF 192 DATE: 31 MAY 2018



Myrtle Beach International Airport IFB 2017-18-719 Taxiway A Rehabilitation - Bid Package 1 SITE VISIT SIGN-IN SHEET A Pre-Bid Muting Thursday, May 24, 2018 08:30AM



NAME (print please)	COMPANY	Phone Number	E-Mail Address
BRECK DINNE	HCDA	843-848-7412	DUNNEBC HORRY COUNTY. ORC
KEN URBANIAL	HCAA	843 - 353 - 6410	URBANIAL & HERRY rounty, ORG
April Johnston	HCDA	843-839-7355	johnstoa@ horrycounty. org
MICHAEL BOYLE	Me CARTHY IMPROVEMENT Co.	864-918-6126	mboyle @mecarthy improvement. com
/AURD -AYLOR	McCARTHY IMPROVEMENT CO	563 - 726 -1010	DLAYLOR @ MCCARTHY IMPLUVEMENT. CO
CLAYIOE MOORE	Summers Concrete	229-740-1417	WATRE & SUMMERS CONCRETE. Com
Daron Stalvey	Stalvey const co Inc	813-450-2676	Stalvey concrete & Yahus. com
Lou Almonte	Palmetto Corp.	843-365-2156	LALMONTE@PALMETTOCORP. VET
BRAD MULLIS	SUMMERS CONCRETE	229-560-0399	brade summersconcrete.com
DEANY Floyd	A. O Harder 350N	843 - 458-4459	denny @ auhurd== -50 N. com
Brian Sarvis	As Hardee and son	843-662-1396	brian @ gohardee-son.com
woody moore	J. moore Electine	803 568 4734	ten invesopos apposion. Net
JON BOWMON	Palmetto Supreme Environmental	864-228-7071	jon. bowman@palmettosupreme.com
Edurad WESSE	Hi-Way Pruins, Iuc.	614-679-3782	Edwesselchiumpmine con
Josh Jordan	ShME	843-340-0679	jdjordan@smeinc.com
Kara Fugate	SHIVE	843-692-6789	Kfugate @ smeinc. com
L. Dean Weaver	L. Dean Weaver Company	843-352-2122	dean@ Idwinc.com
Jereny Crady	Terracon	843-277-8396	jereny, crady @ terracon.com
ANDREW FRENHOUR	TENSAR	843 - 819 - 2867	AISENHOUR OTENSARCORP. COM
Amy Norris	Horry County Procurement	843-915-5380	nomisa Chamyeounty, one

NAME (print please)	COMPANY	Phone Number	E-Mail Address
Elizabeth Lattimore	B. Delta Airport Consultants	919-840-7604	elattimore@deltaoirport.com
Doug Sander	Delta Airport Consultants	919-840-7604	dsander@deltaairpaticom
Scott Von Moppes	Arport	843 - 448 -1580	varmoppess e hongeanty, or
I I Olustead	(\	· ·	olusterje horrycanty org
STEPHEN GRANT	OHMEGA GROUP, UC	803.883.0483	sgrant@ ohmega group. com
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*			

PRE-BID MEETING AGENDA

Taxiway A Rehabilitation - Bid Package 1

Myrtle Beach International Airport Myrtle Beach, South Carolina

AIP Project No. 3-45-0065-Pending-2018
Bid No.2017-18-79
HCDA Project No. A0111
Delta Project No.18003

Location of Meeting: Myrtle Beach International Airport

General Aviation (GA) Terminal

Date of Meeting: Thursday, May 24, 2018

- 1. Introductions & Attendance List
- 2. Plans & Specifications Availability
- 3. Bid Submission & Opening
- 4. Addendums & Bidder Questions
- 5. Project Scope & Funding Sources
- 6. Review of General Provisions
- 7. Review of Technical Specifications
- 8. Review of Plans
- 9. Other Discussion Items

PRE-BID MEETING

Taxiway A Rehabilitation – Bid Package 1

Horry County Myrtle Beach International Airport

AIP PROJECT NO. 3-45-0065-PENDING-2018 BID NO: 2017-18-719 HCDA PROJECT NO. A0111

General Aviation (GA) Terminal 10:00 AM May 24, 2018







AGENDA

- Introductions & Attendance List
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- 6. Review of General Provisions
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Introductions & Attendance List

- Airport staff
- Delta staff

Please sign in

Plans & Specifications Availability

http://www.deltaairport.com

Bid Submission & Opening

Bid Due

Date: June 19, 2018

Time: 2:00 PM – Local time

Location: Horry County Office of Procurement

3230 Highway 319 East, Conway, SC

Addendums & Bidder Questions

- At least one Addendum will be issued
- Questions must be emailed to both:

Douglas Sander

Delta Airport Consultants

dsander@deltaairport.com

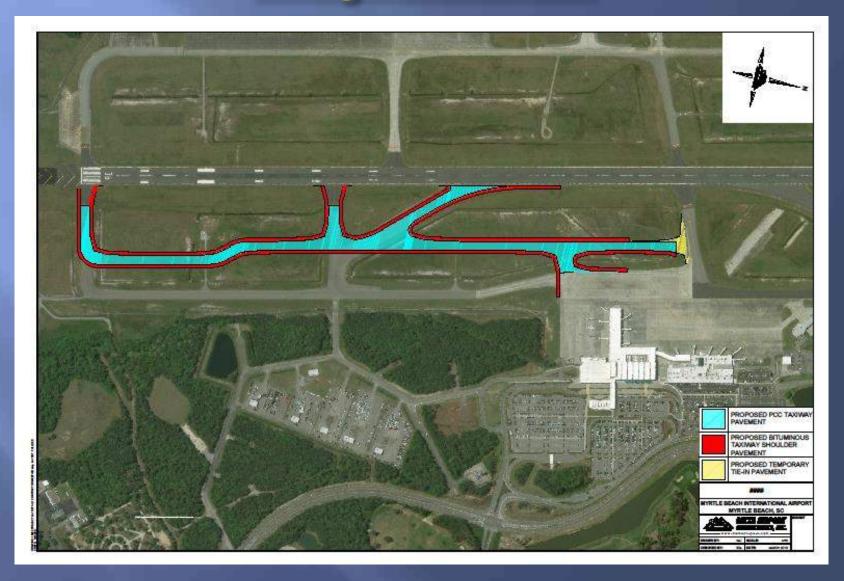
Amy Norris

Horry County Procurement Office

norrisA@horrycounty.org

■ No later than June 7, 2018 @ 2:00pm local time

Project Area



Review of General Provisions

Section 20: Proposal

Bid Bond / Certified Checks

Addendums

Section 30: Contract

Contract Bonds

Commercial and General Liability & Automobile Insurance

Section 50: Stake Out

Section 60: Plant Inspections

Field Office

Shop Drawings

Operations and Maintenance Manuals

Review of General Provisions

Section 70: Facilities and Utilities Contacts

Section 80: Prime Contractor

CPM Progress Schedule

Contract Time

• Section 90: Partial Payments

Retainage

Escrow Account

Section 100: Contractor Quality Control Program

Section 110: Percent Within Limits

Special Provisions

- Time Extensions
- Safety Plan Compliance Document
- Subgrade Undercut
- Cost Breakdown Lump Sum Items
- Preliminary Project Preparation
- QC
- Subsurface Utility Engineering
- Failure to Maintain Safety Measurements
- Fiber Optic Cable Relocation
- Liquidated Damages
- Contractor Penalty Payments
- Badging Requirements

Technical Specifications

- P-100: Mobilization limits
- P-140: Pavement Removal
- P-150: Demolition
- P- 151: Clearing and Grubbing
- P-152: Unclassified Excavation
- P-153: Controlled Low Strength Material
- P-156: Erosion & Sediment Control
- P-160: Pavement Surface Cold Planing

- P-209: Crushed Aggregate Base Course
- P-304: Cement Treated Base Course
- P-306: Lean Concrete Base Course
- P-401: Bituminous Pavement
- P-405: Ground Stabilization Fabric
- P-410: High Performance Geogrid
- P-501: Portland Cement Concrete Pavement

- P-502: Spall Repair
- M-103: Closed Runway and Taxiway Markers
- M-107: Aviation Barricades
- M-602: Bituminous Prime Coat
- M-603: Bituminous Tack Coat
- P-605: Joint Sealing Filler
- P-606: Adhesive Compounds, Two Component for Sealing Wire to Lights and Pavement

- P-607: Expansion Joints
- P-608: Emulsified Asphalt Seal Coat
- P-610: Structural Portland Cement Concrete
- P-619: Paint Removal
- P-620: Runway & Taxiway Painting
- D-701: Pipe
- D-705: Underdrain

- D-751: Drainage Structures
- D-752: Concrete Culvert, Headwalls, and Misc. Drainage
- T-901: Seeding
- T-908: Mulching
- L-100: General Provisions and Requirements for Electrical Work
- L-104: General Provisions and Safety Requirements and Temporary Airfield Lighting
- L-105: Alterations, Removal and Demolition

- L-108: Underground Cable
- L-109: Electrical Vault
- L-110: Duct Banks & Conduits
- L-115: Electrical Manholes and Junction Structures
- L-125: Airport Lighting Systems
- Section 263213.13: Diesel Emergency Engine Generators
- Section 263600: Transfer Switches

- R-305: SC Aggregate Base Course
- R-401: SC Asphalt Concrete Pavement
- R-804: SC Riprap
- R-815: SC Turf Reinforcement Matting

- Appendix A: Geotechnical Report
- Appendix B: Addendum to Geotechnical Report
- Appendix C: Sample Submittal Form
- Appendix D: AC 150 / 5370-2G
 "Operational Safety on Airports During Construction"
- Appendix E: Construction Safety and Phasing Plan

Review of Bid Forms

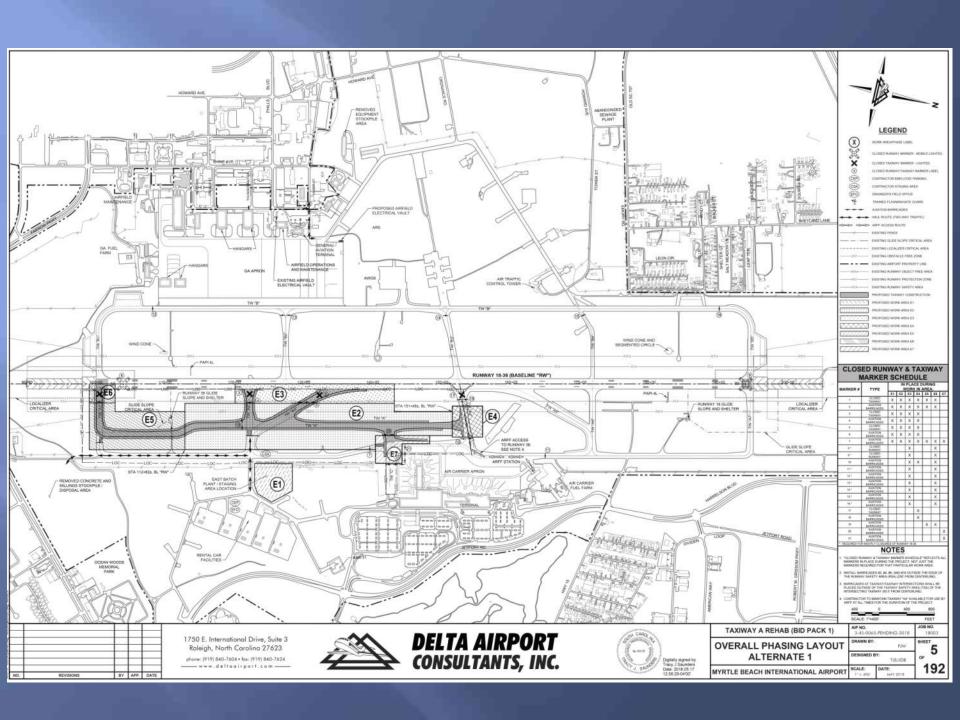
- Complete Proposal is required to be submitted.
- Required to bid on both Alternates.
- Unit Price Based Bid.

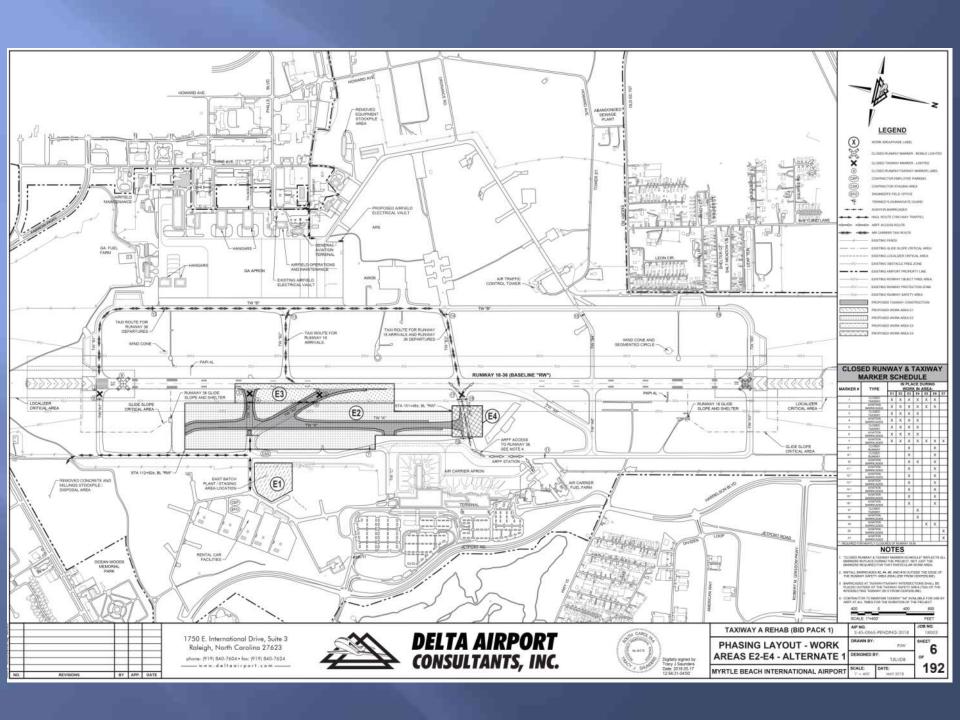
Bid Bond is required to be submitted.

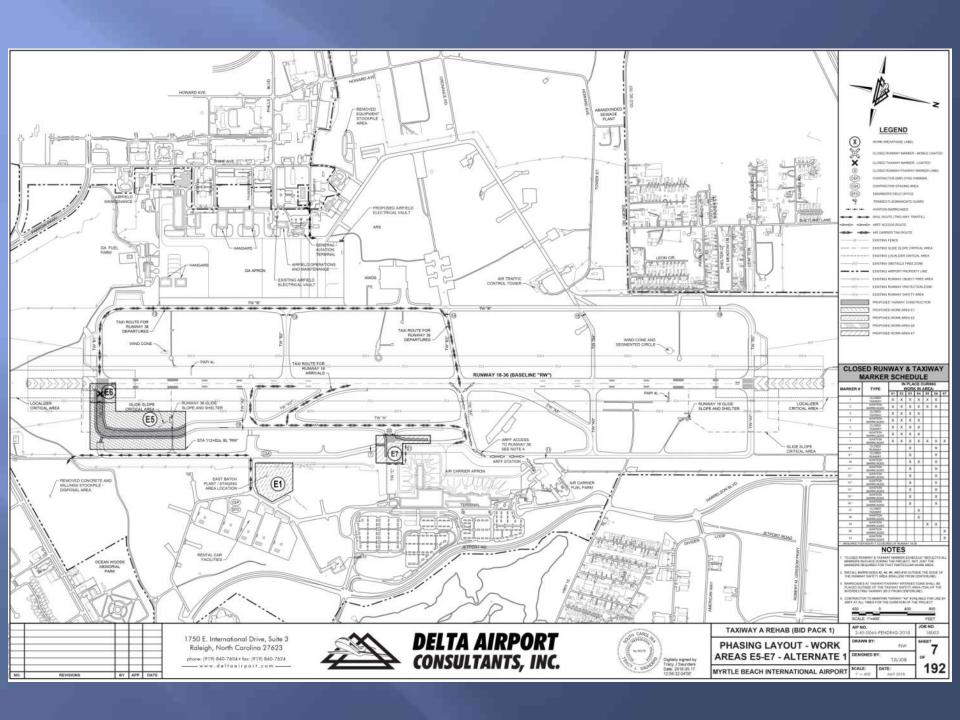
Bid From

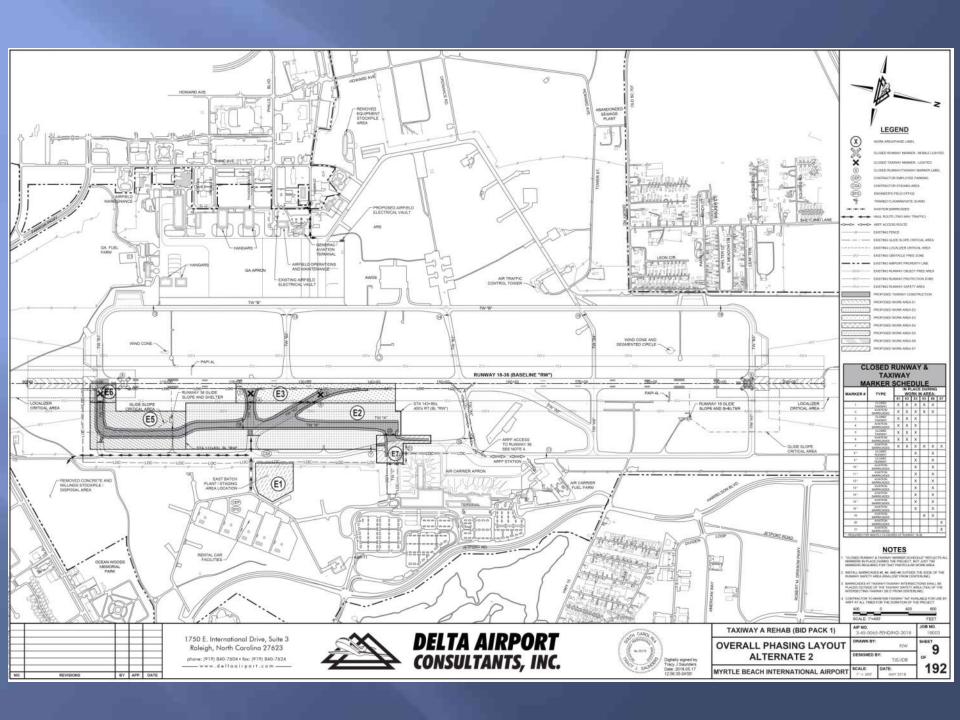
	No. 3-51-0030-i t No. VA 10131	CONSTRUCT TAXIWAY D		Date:
ITEM	Summary For QUANTITY	All Work Depicted in The Plans And Specifications ITEM WITH UNIT PRICE WRITTEN IN WORDS		UNIT PRICES EXTENDS TOTAL DOLLARS DOLLAR
[₁₇]	RD.	S UNIT PULL CAN PLAZA	UMI	CENTS CENTS
38		NEW ARFIELD SIGNS - LED	PER EACH	
L-125	9 EA	NEW L-861T BASE MOUNTED MITL	PER EACH	
39 L-125	30 EA	MEW 1-9611 BASE MODIFIED WITE	PER EACH	
Liquidated D	Damages:	\$3,000/Calendar Day	Т	
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Review of Plans

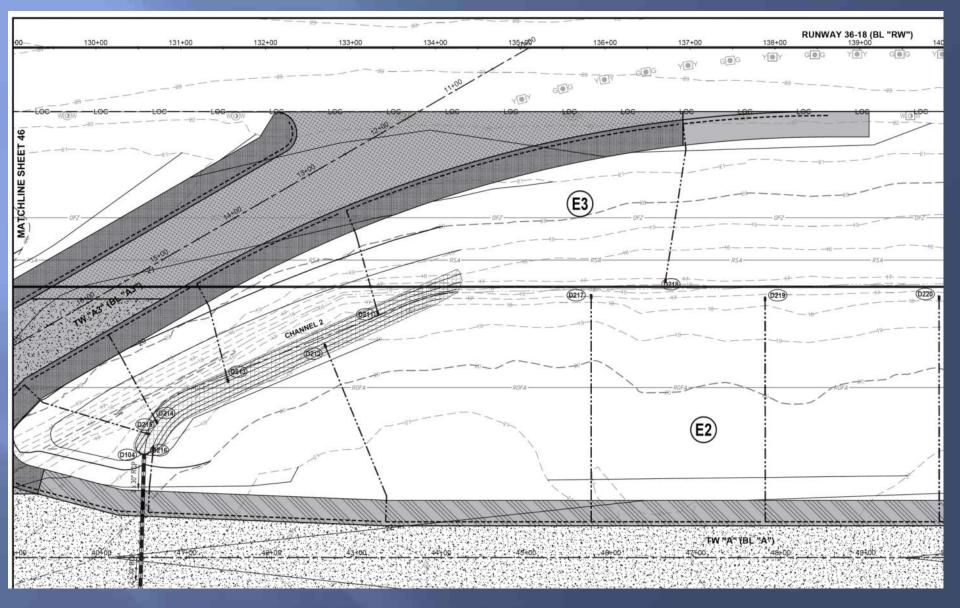








Closure Period For RSA work 12:00 PM to 6:00 AM



JOINT SEAL AND EXPANSION MATERIAL NOTES

PERMIT

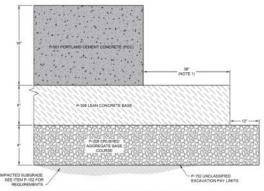
- THE CONTRACTOR SHALL SUBINIT THE MANUFACTURER'S LITERATURE AND RECOMMENDATIONS FOR INSTALLATION OF THE SEALANT TO THE ENGINEER FOR APPROVAL.
- ALL JOINTS SHALL BE MECHANICALLY CLEANED OF ALL CURING COMPOUND AND BLOWN OUT WITH COMPRESSED AIR BEFORE INSTALLATION OF THE SEALANT.
- THE CONTRACTOR SHALL DEMONSTRATE HIS/HER ABILITY TO COMPLY WITH THE DRAWINGS AND SPECIFICATION REQUIREMENTS BY PLACING A TEST SECTION WHICH INCLUDES BOTH LONGITUDINAL AND TRANSVERSE JOINTS.
- 4 CONCRETE TO CONCRETE JOINTS SHALL BE SEALED WITH DOW CORNING BBS, 896-SL, BILLDONE SEALANT OR APPROVED EDGIVLENT, ALL JOINT IS EAKLED WITH DOW CORNING BBS, 896-SL OR APPROVED EQUIVALENT SHALL BE PRISED, PROOR TO THE INSTALLATION OF THE SEALANT, WITH A PRISED RECOMMENDED BY THE SEALANT.
- CONCRETE TO ASPHALT JOINTS SHALL BE SEALED WITH DOW CORNING 860-SL SILICONE JOINT SEALANT OR APPRINGED FOLIVALENT.
- THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR SEALING ALL JOINTS WITH THE DISERSIONS OF MATERIAL, WRITTEN, DEPTHS, APPROPRIATE FOR THE TYPE SEAL SELECTED. TO THE DISORDER, THE CONTRACTOR SHALL DE RESPONSIBLE FOR HAVING A CERTIFIED MANUFACTURISTS REPRESENTATIVE ON SITE DURING THE FIRST DAY OF
- BACKER ROD SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER. CARE SHALL BE TAKEN TO AVOID STRETCHING THE RACKER ROD DURING INSTALLATION AND TO INSTALL IT AT THE RECOMMENDED DEPTH.
- IL BACKER ROD SHALL BE NON-ABSORBENT CLOSED CELL
- BACKER ROD SHALL BE CONTINUOUS BETWEEN JOINT INTERSECTIONS AND CONSIST OF A SINGLE PIECE OF APPROPRIATE SIZE AS RECOMMENDED BY THE MANUFACTURER.
- EXPANSION JOINTS BETWEEN CONCRETE SECTIONS SHALL CONSIST OF SELF-EXPANDING CORK MATERIAL IN ACCORDANCE WITH ASTA DITEZ. EXPANSION JOINTS THAT TRANSITION FROM CONCRETE TO BITURINOUS SHALL CONSIST OF EXPANSION MATERIAL IN ACCORDANCE WITH ASTM DBM.
- EXPANSION MATERIAL FOR ALL EXPANSION JOINTS SHALL BE ONE (1) CONTINUOUS PIECE IN THE VERTICAL DIRECTION.

DOWEL BAR NOTES

- THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN SEFORE PLACEMENT OF ANY CONCRETE TO OUTLINE HISHER PLAN FOR INSTALLATION OF DOVINGS IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- 2. REFERENCE IS DIRECTED TO ITEM P-501-4 10 OF THE SPECIFICATIONS FOR DOWEL SPACING LAYOUT.
- 3. DOWEL BASKETS FOR THE TRANSVERSE JOINTS SHALL BE FIRMLY ANCHORED TO THE UNDERLYING LAYER.
- 4. LONGITUDINAL DOWELS SHALL BE DRILLED AND EPOXIED IN THE HARDENED CONCRETE. DOWELS SHALL BE INSTALLED TO MEET THE SPECIFICATION TOLERANCE WITH NO VOIDS AT THE INTERFACE BETWEEN THE DOWELS. AND THE CONCRETE.
- If the contractor elects to Place two (2) adjacent lanes with a larger paying width, the doweled construction joint (TYPE E) in the center of the wider lang shall be replaced with a doweled contraction joint (TYPE C).
- 6. ALL DOWEL BARS SHALL BE CENTERED ON THE JOINT LINE.

WELDED WIRE FABRIC NOTES

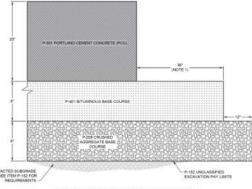
- 1. WELDED WIRE FABRIC SHALL BE INSTALLED IN ALL COO-SHAPED SLABS AND IN SLABS CONTAINING STRUCTURES.
- WELDED WIRE FABRIC SHALL BE WWF 12 X 12 WB X WB UNLESS OTHERWISE APPROVED BY THE ENGINEER, AND SHALL BE PLACED AT A DEPTH OF T/4 PLUS ONE INCH. WHERE T IS THE SLAB THICKNESS.



TYPE 1 PCC TAXIWAY PAVEMENT SECTION

NOTES

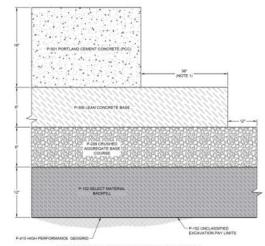
- 1. IF THE CONTRACTOR ELECTS TO UTILIZE FIXED FORMS IN LIEU OF SUP FORMING, THE OFFSET SHALL BE 12".
- THE CONTRACTOR MAY SUBSTITUTE P-304 CEMENT TREATED BASE COURSE FOR THE P-306 LEAN CONCRITE PAYMENT. FAYMENT FOR THE P-304 CEMENT TREATED BASE COURSE, IF USED BY THE CONTRACTOR IN LESU OF P-301 LEAN CONCRITE.
 PER SQUARE YARD FOR P-308 LEAN CONCRITE.
- STREMSTH REQUIREMENTS OUTLINED IN 1TEM P-304-3.2 SHALL BE OBTAINED UTLIZING A MAXIMUM CEMENT CONTENT OF 6.9 PERCENT BY WEIGHT OF AGGREGATE. DURING PRODUCTION, THE CEMENT CONTENT SHALL NOT VARY BY MORE THAN 6.5 PERCENT FROM THE DESION.
- 4. IF ORDERED BY THE ENGINEER, THE CONTRACTOR SHALL UNDERCUT THE SUBGRADE AND PLACE P-405 GROUND STARLIZATION FASRIC.
- 5. REFERENCE IS DIRECTED TO SPICE, "SUBGRADE UNDERCUT" OF THE SPECIFICATIONS.



TYPE 2 PCC TAXIWAY PAVEMENT SECTION

NOTES:

- 1. IF THE CONTRACTOR ELECTS TO LITLIZE FIXED FORMS IN LIEU OF SLIP FORMING, THE OFFSET SHALL BE 12".
- IF ORDERED BY THE ENGINEER, THE CONTRACTOR SHALL UNDERCUT THE SUBGRADE AND PLACE P-405 GROUND STABILIZATION PARRIC.
- 3. REFERENCE IS DIRECTED TO SP-26, "SUBGRADE UNDERCUT" OF THE SPECIFICATIONS.
- 4. PLACE P-603 TACK COAT BETWEEN LIFTS OF P-401 BASE COURSE.
- 6. THE CONTRACTOR SHALL APPLY LIME SLURRY WHITEWASH ON THE BITUMMOUS BASE PRIOR TO PLACEMENT OF THE P-50F PORTLAND COMENTS CONCINENT LIME SLURRY SHALL BE A NATURED OF HYDRATED LIME AND WATER WATURES SHALL BE AS RECOMMENCED BY THE SEPPLIER SEAT, SHALL NOT BE ACCORD THE WHITEWASH MIXTURE AND RATE OF APPLICATION SHALL PRODUCE A UNIFORM COLOR ON THE SURFACE. ADDITIONAL APPLICATIONS OF THE MIXTURE SHALL BE APPLIED AS REQUIRED TO MAINTAIN A UNFORM COLOR.
- CURING COMPOUND MEETING THE REQUIREMENTS OF AASHTO M-148 MAY BE USED FOR WHITEWASH AT THE RATE OF ONE (1) GALLON PER 200 SQUARE FEET.



TYPE 3 PCC TAXIWAY PAVEMENT SECTION

NOTES

- 1. IF THE CONTRACTOR ELECTS TO UTILIZE FIXED FORMS IN LIEU OF SLIP FORMING, THE OFFSET SHALL BE 12".
- 2. THE CONTRACTION MAY SUBSTITUTE P-SALESMENT TREATED BASIS COURSE FOR THE P-MR LEAN CONSERTE PARKEMENT PARKEMENT FOR THE P-AS CEREBYT TREATED SASE COURSE, F VIGEO BY THE CONTRACTOR IN LIEU OF P-309 LEAN CONCRETE PAYMENT, VIG. LIE MADE AT THE CONTRACT UNIT PRICE PRIT SOLARED YARD FOR P-SOLE EAN CONCRETE.
- STRENGTH REQUIREMENTS OUTLINED IN ITEM P-304-3.2 BHALL BE OBTAINED UTILIZING A MAXIMUM CEMENT CONTENT OF 6.9 PRICENT BY WEIGHT OF AGENTRACTE DURING PRODUCTION, THE CEMENT CONTENT SHALL NOT VARY BY MORE THAN 4.5 PERCENT FROM THE DESIGN.

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TAXIWAY A REHAB (BID PACK 1)	
PCC PAVING NOTES &	
DETAILS	

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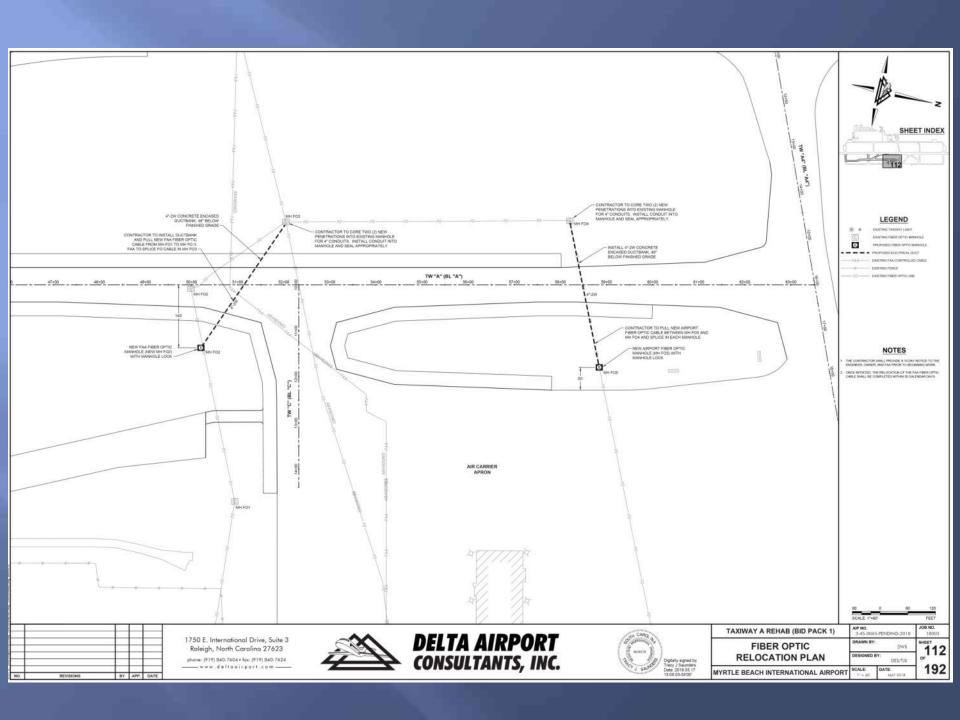
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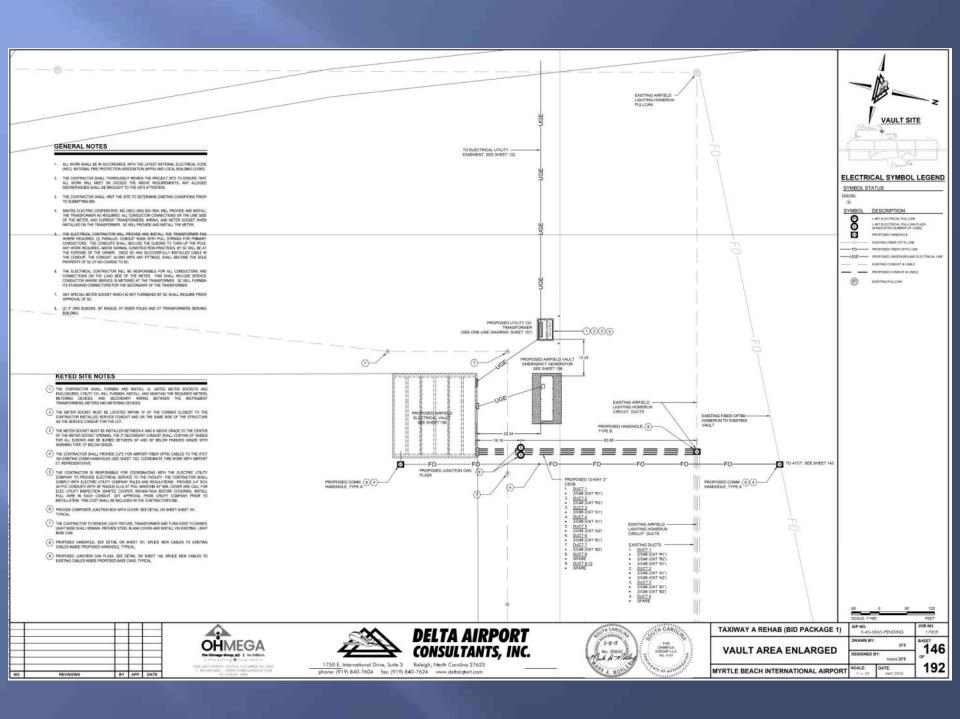
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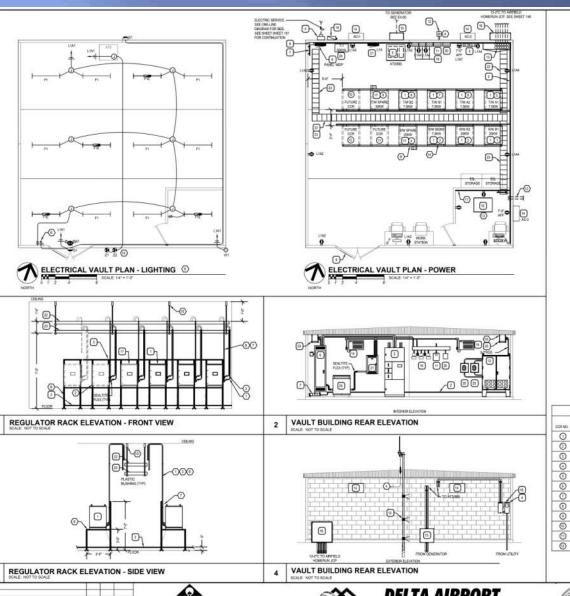
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KEYED NOTES

- PROVIDE REGULATOR CONTROL CONDUCTORS 12912 IN 1º RIGID STEEL CONDUST FROM REGULATOR TO LASS CONTROLLER.
- PROVIDE (1) ME BARKE COPPER GROUND FROM REGULATOR TO EQUIPMENT GROUND BUS.
- PROVIDE REDULATOR INPUT POWER CONDUCTORS IN PRIOR STEEL CONDUIT. SEE ONE-LINE DIAGRAM SHEET SHEET IST FOR BYES.
- PROVIDE IT SLEEVE THROUGH WALL FOR ANTENNA LEAD-IN CABLE.
- A. TYPE F1: 4 LED STRP LIMINARE, SURFACE NOUNT WITH WRE GUARD, LED, 120Y, AS MANUFACTURED BY EATON (SNLED), OR APPROVED BOUGH.
- B. TYPE FIE SAME AS TYPE FIL EXCEPT WITH ENERGENCY BATTERY BALLAST.
- C. TYPE GE, LED WALLPACK LUMINARIE, FILL CUT-OFF, 120V, WET LOCATION LIEFED, AS MANUFACTURED BY EATON SCIONESS; DR APPROVED BOUND.
- TYPE 81 LED COMBO ENTIFEMENGENCY LIGHT, 129V. RED TEXT, AS MANUFACTURED BY EATON (LPSC), UTHOMA (LHOM), OR APPROVED EQUAL.
- TYPE 21: LED ROTATING SIGNAL LIGHT, 120Y, NEWA AX, WITH WALL-ACURT BRACKET. AS MARKETACTURED BY FEDERAL SIGNAL (37) LEDI, OR APPROVED EQUAL, RED COLOR.
- TYPE 22: LED ROTATING SERNAL LEGHT, 126V, NEIMA 4X, WETH WALL-MOUNT BRACKET AS MANUFACTURED BY FEDERAL BIDNAL (37) LED), OR APPROVED EQUAL. GREEN
- G. TYPE WI: LED LATE DESTRUCTION LIGHT, 12W.
- FROMDE WALL MOUNTED TIMES FOR EXTERNOR LIGHTING FEXTURE, SEE HISHEET 156.
- SUPPORT CONDUIT IN ACCORDANCE WITH NEC REQUIREMENTS.
- (a) PROVIDE REGULATOR SKY FIELD CONDUCTORS IN 2" RIGID STEEL CONDUCT TO SKY CABLE
- PROVIDE HEAVY DUTY STEEL FRAME EQUIPMENT RACK, UNISTRUT OR APPROVED EQUAL.
- PROVIDE SIET THREADED ROO HANGAR SPACED ON SET CENTERS.
- SIFTREH PLYMODO BACKBOARD, FAINT PLYMODO BACKBOARD WITH 2 COATS OF GRAY FLABE RETARDANT PAINT ON ALL SIGES, AC GRADE BOARD WITH A GIDE OUT. 0
- (12) 22°C FOR ARPORT'S FIBER AND COPPER COMMUNICATIONS CABLES. SEE 146.
- 3,24°C FOR ARROYST PRISE IN CONTRICT COMMANDATION CALLS. SEE 48.

 DE CONTRACTOR SHALL RELOCATE AND ACCEPT THE ESSISTING EATON CHOICE HARD ALCOR SHYSTEM THE MEDIAGONISM SHEET, LIGHT ACCEPT ACC AT ALL TIMES DURING CONSTRUCTION, SWITCH-OVER SHALL BE CAREFULLY COORDINATED WITH THE ARPORT, FAA AND MANUFACTURER.
- FOUTURE 21 SHALL BE WIRED THROUGH THE ATS AUXILIARY CONTACTS TO ACTIVATE WHEN THE ATS SAFTCH IS IN EXEMPLIARY CONTROLS. FOUTURE 22 SHALL BE WIRED THROUGH THE ATS AUXILIARY CONTROLS TO ACTIVATE WHEN THE SWITCH IN THE VORMAL POSITION.

	VAULT	EQUIPMENT	SCHEDULE
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DESCRIPTION

TROPOSED LABS CONSTANT CURRENT REQUALTON (CDR), FERROWESOWANT TYPE, 480 VDLT.

LE AMP, WITH DIGITAL METER AND 120 VOLT CONTROL, AND INTEGRAL IS 1 CUTOUT. SEE REGULATOR SCHEDULE.

2 EQUIPMENT GROUND BUS ROUTED ON PERMETER WALLS AS SHOWN, SEE DETAIL SISHEET 15

OWDE 5 KV, SERIES CUTOUT SEE DETAIL INSHEET 198.5 -1 CUTOUT INSIDE A WALL-MOUNTE TEXTOS! NEMA 12 HINGED ENCLOSURE WITH QUICK-RELEASE LATCH, ONE 5-1 CUTOUT FOR

PROVIDE UTILITY COMPANY METER, SEE ONE-LINE DIAGRAM SHEET SHEET 157 FOR COMPLE

THACL MOP, 271490 VOLT, 3 PHASE 4 WIRE, SEE ONE-LINE DIAGRAM SHEET SHEET 197 FOR COMPLETE DESCRIPTION

SERVICE ENTRANCE GROUND BAR, SEE DETAIL 2/SHEET HA.

(9) PROVIDE WARNING SIGN SEE DETAIL RISHEET 158.

11 RELOCATED L-804 RACKO CONTROLLER

PROVIDE ANTENNA FOR L464 RADIO CONTROLLER, SEE DETAIL VISHEET 198.

FIELD CABLE CABINET. PRICINDE REF BY AP BY 12", NEWA 12 ENIOLOGUES WITH 3 COORS.

TO SHILD CARE COMMENT. PROVINGE BY FIF AT IT YES ASSOCIATED TO SHOULD WITH 2000MS.

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ARPIELD CIRCUITS PULL BOX. PROVIDE M" BY "M" BY 12", NEWA KX STANLESS STEEL ENCLOSURE WITH SCREW COVER, HOFFMAN NO. AASEMENIN 1255NK OR APPROVED EQUAL.

LOCATED L-618 CONSTANT CURRENT REGULATUR (CCR), PERRORESCHANT TYPE, 460 YO AMP, WITH DIGITAL METER AND 120 YOUT CONTROL, TO SE USED AS SRAFE. SEE

MAIN SERVICE DISCONNECT, SEE ONE-LINE DIAGRAM SHEET SHEET 197 FOR COMPLETE DESCRIPTION

(19) AELOCATED CROUSE-HINDS "OXOTRAC" ALCHIS INTERFACE. SEE SHEET WE.

(25) RELOCATED BEACON CONTACTOR

21 PANEL LIA: 340120 VOLT, 1 PHASE, 3 WINE SEE ONE-LINE CRACKANI SHEET SHEET 157 FOR COMPLETE DESIGNATION

SKY CABLE TRAY, 12 WIDE, 12" BLING SPACING, LADDER TYPE

(33) 600Y CABLE TRAY, 12 WIDE: 12" RUNG SPACING, LADGER TYPE

OCHM TRANSFORMER, 480V PRIZHS133V SECONDARY, 30KVA, 1 PHASE, 3 WIFE, DRI

			CONS	TANT (CURRE	NT REG	ULA'	TOR SO	HEDULE	
COR NO.	CCR	CCR	COR	MPUT VOLTAGE	MPUT DURRENT*	OUTPUT AMPERADE	FROM	CKT	MANUFACTURER	REWARKS
0	RUMWAY 18-36 NORTH (OKT RT)	- 15	- 5	680	344	EEA	MSP	AETOM	PROPOSED COR L-628	WITH CONTROL AND MONITORING OPTION COMPATIBLE WITH DIGITIRAC SYSTEM
0	RUNMAY 18-36 SOUTH (OKT R2)	- 15	- 6	485	344	ESA	MEP	ORANGE	PROPOSED CON L-626	WITH CONTROL AND MONITORING OPTION COMPATIBLE WITH DIGITRAC SYSTEM
0	(OKT S1)	7.5	3	482	17A	6.6A	HDP	BLACK	PROFOSES CON L-828	WITH CONTROL AND MONITORING OPTION COMPATIBLE WITH DIGITIRAC SYSTEM
0	SPARE #1 (RUNIAR1)	29	3	480	ASA.	5.64	MDP	BLACK	CROUSE HINDS	EXISTING RELOCATED, CONNECTED AS HOT SMAPPAGLE SPARE, SEE WISHEET 158
0	TAXIMAY A MORTH (CKT A1)	7,6	3	482	178	RAA	HDP	BUE	PROFOSED DOR LADY	WITH CONTROL AND MONITORING OPTION COMPATIBLE WITH DIGITIRAC SYSTEM
0	TAXIMAY A SOUTH (CRT.42)	7.5	3	485	. ATT	BBA	HDP	860	PROPOSED COR L-828	WITH CONTROL AND MONTORING OPTION COMPATIBLE WITH DESTRUCE SYSTEM
0	TAXMAY B NORTH (OKT B1)	7.6	3	480	100A	6,64	NOP	GREEN	PROPOSED COR L428	WITH CONTROL AND MONITORING OPTION COMPATIBLE WITH CRUTTRAC SYSTEM
0	TAXMAY B SOUTH (CKT 82)	7.5	3	465	TTA	5.64	NOP	WHEE	PROPOSED COR L-828	WITH CONTROL AND MONITORING OPTION COMPATIBLE WITH CHRITING SYSTEM
0	SPARE AT (TAXENAY)	38	3	480	894	6.64	MOP	BLACK	CROUSE HINDS	EXISTING RELOCATED, CONNECTED AS HOT SMAPPABLE SPARE, SEE INSHEET 158
0	PUTURE COR	51	8	480	3.5	K/SA	MOP	BLACK		
0	FUTURE COR	1.5		482	100	8.6A	HDP	BLACK		
0	FUTURE COR	*:	-	482		ESA	NOP	BLACK		

BASED ON CROUSE HINDS

156

BY APP DATE



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TAXIWAY A REHAB (BID PACKAGE 1)
AIRFIELD ELECTRICAL
VAULT DETAILS

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SCALE:

Other Discussion Items