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General Decision Number: FL190182 01/04/2019 FL182

Superseded General Decision Number: FL20180225

State: Florida

Construction Type: Highway

County: Palm Beach County in Florida.

HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number Publication Date

0 01/04/2019

* SUFL2013-043 08/19/2013

	Rates	Fringes
CARPENTER, Includes Form Work.....	\$ 15.38	0.00
CEMENT MASON/CONCRETE FINISHER.....	\$ 15.69	0.00

ELECTRICIAN.....	\$ 18.20	0.00
FENCE ERECTOR.....	\$ 12.82	0.00
HIGHWAY/PARKING LOT STRIPING: Operator (Striping Machine).....	\$ 15.09	0.00
HIGHWAY/PARKING LOT STRIPING: Painter.....	\$ 12.13	0.00
HIGHWAY/PARKING LOT STRIPING: Operator (Spray Nozzleman).....	\$ 11.81	0.00
INSTALLER - GUARDRAIL.....	\$ 13.96	0.00
IRONWORKER, ORNAMENTAL.....	\$ 13.48	0.00
IRONWORKER, REINFORCING.....	\$ 16.58	0.00
IRONWORKER, STRUCTURAL.....	\$ 16.42	0.00
LABORER (Traffic Control Specialist incl. placing of cones/barricades/barrels - Setter, Mover, Sweeper).....	\$ 12.97	0.00
LABORER: Asphalt, Includes Raker, Shoveler, Spreader and Distributor.....	\$ 12.99	0.00
LABORER: Common or General.....	\$ 10.66	0.00
LABORER: Flagger.....	\$ 12.53	0.00
LABORER: Grade Checker.....	\$ 12.41	0.00
LABORER: Landscape & Irrigation.....	\$ 9.02	0.00
LABORER: Mason Tender - Cement/Concrete.....	\$ 13.91	3.50
LABORER: Pipelayer.....	\$ 14.82	0.00
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 15.66	0.00
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 12.88	0.00

OPERATOR: Boom.....	\$ 18.95	0.00
OPERATOR: Boring Machine.....	\$ 16.23	0.00
OPERATOR: Broom/Sweeper.....	\$ 12.70	0.00
OPERATOR: Bulldozer.....	\$ 16.00	0.00
OPERATOR: Concrete Finishing Machine.....	\$ 15.44	0.00
OPERATOR: Concrete Saw.....	\$ 16.22	0.00
OPERATOR: Crane.....	\$ 21.66	0.00
OPERATOR: Curb Machine.....	\$ 20.76	0.00
OPERATOR: Distributor.....	\$ 14.76	0.00
OPERATOR: Drill.....	\$ 14.78	0.00
OPERATOR: Forklift.....	\$ 16.32	0.00
OPERATOR: Gradall.....	\$ 15.75	0.91
OPERATOR: Grader/Blade.....	\$ 20.25	0.00
OPERATOR: Grinding/Grooving Machine.....	\$ 13.87	0.00
OPERATOR: Loader.....	\$ 14.19	0.00
OPERATOR: Mechanic.....	\$ 18.03	0.00
OPERATOR: Milling Machine.....	\$ 15.60	0.00
OPERATOR: Oiler.....	\$ 16.32	0.00
OPERATOR: Paver (Asphalt, Aggregate, and Concrete).....	\$ 14.73	2.36
OPERATOR: Piledriver.....	\$ 17.23	0.00
OPERATOR: Post Driver (Guardrail/Fences).....	\$ 14.45	0.00
OPERATOR: Roller.....	\$ 13.03	0.00
OPERATOR: Scraper.....	\$ 12.01	0.00

OPERATOR: Screed.....	\$ 15.51	0.00
OPERATOR: Tractor.....	\$ 10.79	0.00
OPERATOR: Trencher.....	\$ 14.74	0.00
PAINTER: Spray.....	\$ 16.52	0.00
SIGN ERECTOR.....	\$ 14.02	0.00
TRUCK DRIVER: Distributor Truck.....	\$ 14.96	2.17
TRUCK DRIVER: Dump Truck.....	\$ 11.84	0.00
TRUCK DRIVER: Flatbed Truck.....	\$ 14.28	0.00
TRUCK DRIVER: Lowboy Truck.....	\$ 13.98	0.00
TRUCK DRIVER: Slurry Truck.....	\$ 11.96	0.00
TRUCK DRIVER: Vector Truck.....	\$ 14.21	0.00
TRUCK DRIVER: Water Truck.....	\$ 13.25	0.00

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after

award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion

date for the classifications and rates under that identifier. Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor

200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

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BID CONDITIONS
DISADVANTAGED BUSINESS ENTERPRISE OWNER

The following bid conditions apply to this Department of Transportation (DOT) assisted contract. Submission of a bid/proposal by a prospective contractor shall constitute full acceptance of these bid conditions.

1. Definition. Disadvantaged Business Enterprise (DBE) as used in this contract shall have the same meaning as defined in Paragraph 26.5 in 49 CFR Part 26.
2. Policy. It is the policy of DOT that DBE's as defined in 49 CFR Part 26 shall have the maximum opportunity to participate in the performance of contracts and subcontracts financed in whole or in part with Federal funds. Consequently, the DBE requirements of 49 CFR Part 26 applies to this contract.
3. Obligation. The contractor agrees to ensure that DBE's as defined in 49 CFR Part 26 have the maximum opportunity to participate in the performance of contracts and subcontracts financed in whole or in part with Federal funds. In this regard, all contractors shall take all necessary and reasonable steps in accordance with 49 CFR Part 26 to ensure that DBE's have the maximum opportunity to compete for and perform contracts. Contractors shall not discriminate on the basis of race, color, national origin, or sex in the award and performance of DOT assisted contracts.
4. Compliance. All bidders, potential contractors, or subcontractors for this DOT assisted contract are hereby notified that failure to carry out the DOT policy and the DBE obligation, as set forth above, shall constitute a breach of contract which may result in termination of the contract or such other remedy as deemed appropriate by the owner.
5. Subcontract Clause. All bidders and potential contractors hereby assure that they will include the above clauses in all subcontracts that offer further subcontracting opportunities.
6. Contract Award. Bidders are hereby advised that meeting the DBE subcontract goal or making an acceptable good faith effort to meet said goal are conditions of being awarded this DOT assigned contract.

The owner proposes to award the contract to the lowest responsive and responsible bidder submitting a reasonable bid provided he has met the goal for DBE participation or, if failing to meet the goal, he has made an acceptable good faith effort to meet the established goal for DBE participation. Bidder is advised that the owner reserves the right to reject any or all bids submitted.

7. DBE Participation Goal. The City of Fort Lauderdale will meet the maximum feasible portion of its overall goal of 7.70% by using race-neutral means of facilitating DBE participation. The City of Fort Lauderdale estimates that, in meeting its overall DBE goal of 9.34%, it will obtain 1.64% from race neutral participation and 7.70% through race-conscious measures.

8. Available DBE'S. The owner has on file a DBE program that has been approved by the Federal Aviation Administration. This program contains a listing of DBE's (certified and uncertified). Bidders are encouraged to inspect this list in locating DBE's for the work. Other DBE's may be added to the list in accordance with the owner's approved DBE's program. Credit toward the DBE goal will not be counted unless the DBE to be used can be certified by the owner.
9. Contractor's Required Submission. The owner requires the submission of the following information with the bid proposal. Certain other DBE information may also be required.

MBE's

<u>MBE Subcontractors Names/Addresses/Identity*</u>	<u>Subcontract Work Item</u>	<u>Dollar Value of Subcontract Work</u>
_____	_____	\$ _____
_____	_____	\$ _____
_____	_____	\$ _____
_____	_____	\$ _____

WBE's

<u>WBE Subcontractors Names/Addresses/Identity*</u>	<u>Subcontract Work Item</u>	<u>Dollar Value of Subcontract Work</u>
_____	_____	\$ _____
_____	_____	\$ _____
_____	_____	\$ _____
_____	_____	\$ _____

DBE's

<u>DBE Group Names/Addresses/Identity*</u>	<u>Subcontract Work Item</u>	<u>Dollar Value of Subcontract Work</u>
_____	_____	\$ _____
_____	_____	\$ _____
_____	_____	\$ _____
_____	_____	\$ _____
Total Dollar Value of Subcontract Work		\$ _____
Total Dollar Value of Basic Bid		\$ _____
Total DBE Percent		\$ _____

(Black, Hispanic, Asian American, American Indian, Women regardless of ethnicity, and other economically disadvantaged)

If the contractor fails to meet the contract goal established in Paragraph 7 above, the following information must be submitted 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 Paragraph 9 above.

Suggested guidance for use in determining if good faith efforts were made by a contractor are included in Appendix A to 49 CFR Part 26, Subpart F, revised as of December 30, 2005.

A list of 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 Appendix A 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 contracting 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 or credit, or insurance required by the recipient or contractor, and
- i. Whether the contractor effectively used the services of available minority community organizations; minority contractor's 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.

10. Contractor Assurance. The bidder hereby assures that he will meet one of the following as appropriate:
 - a. The DBE participation goal as established in Paragraph 7 above.
 - b. The DBE participation percentage as shown in Paragraph 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 access progress in achieving DBE subcontract goals and other DBE affirmative action efforts.

DISADVANTAGED BUSINESS ENTERPRISE (DBE) DEFINITIONS

A DBE means a for-profit small business concern.

1. That is at least 51 percent (51%) owned by one or more individuals who are both socially and economically disadvantaged or, in the case of a corporation, in which 51 percent (51%) of the stock is owned by one or more such individuals; and
2. Whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individuals who own it.

Socially and Economically Disadvantaged Individual means any individual who is a citizen (or lawfully admitted permanent resident) of the United States and who is

1. **Any individual** who The City of Fort Lauderdale finds to be a socially and economically disadvantaged individual on a case-by-case basis.
2. **Any individual** in the following groups, members of which are rebuttably presumed to be socially and economically disadvantaged:
3. **"Black Americans,"** which includes persons having origins in any of the Black racial groups of Africa;
4. **"Hispanic Americans,"** which includes persons of Mexican, Puerto Rican, Cuban, Dominican, Central or South American, or other Spanish or Portuguese culture or origin, regardless of race;
5. **"Native Americans,"** which includes persons who are American Indians, Eskimos, Aleuts, or Native Hawaiians;
6. **"Asian-Pacific Americans,"** which includes persons whose origins are from Japan, China, Taiwan, Korea, Burma (Myanmar), Vietnam, Laos, Cambodia (Kampuchea), Thailand, Malaysia, Indonesia, the Philippines, Brunei, Samoa, Guam, the U.S. Trust Territories of the Pacific Islands (Republic of Palau), the Commonwealth of the Northern Marianas Islands, Macao, Fiji, Tonga, Kiribati, Juvalu, Nauru, Federated States of Micronesia, or Hong Kong;
7. **"Subcontinent Asian Americans,"** which includes persons whose origins are from India, Pakistan, Bangladesh, Bhutan, the Maldives Islands, Nepal or Sri Lanka;
8. **"Women,"** regardless of ethnicity;
9. **Any additional groups** whose members are designated as socially and economically disadvantaged by the SBA, at such time as the SBA designation becomes effective.

10. Tribally owned Concern means any concern at least 51 percent (51%) owned by an Indian tribe as defined in this section.

Listed below are some agencies that certify DBEs.

DBE CERTIFYING AGENCIES

Division of Economic and Small Business Development

115 South Andrews Avenue, Annex 680

Fort Lauderdale, Florida 33301

Telephone: (954) 357-6400

Internet Address: <http://www.co.broward.fl.us/eeo>

Florida Department of Transportation

605 Suwannee Street, MS65

Tallahassee, Florida 32399-0450

Telephone: (850) 414-4747

Internet Address: www.dot.state.fl.us/equalopportunityoffice

MONTHLY CONTRACTOR DBE UTILIZATION REPORT**PART A**

INSTRUCTIONS: This form must be filed each month to report actual DBE participation by certified Contractors for work done the preceding month

Contract Number: _____ Contract Name: _____ Reporting Period: _____

Prime Contractor: _____ Contract Amount (as amended): \$ _____

Amount of Payment Invoice this Period: \$ _____ Amount Invoiced for DBE Subcontractor this Period: \$ _____

Total Amount Invoiced to Date: \$ _____ Total Amount Invoiced for DBE Subcontractor to Date: \$ _____

Name of DBE	Contract Amount	Description of Work	Actual Amount Paid to DBE This Period	Amount Paid to DBE to Date	Actual Starting Date	Scheduled Completion Date

- | | | | |
|----|--|--------------------------|--------------------------|
| | | Yes | No |
| 1) | Did any of the DBE subcontractors rent/lease equipment from the prime contractor or an affiliate company during the report period? If yes, explain the arrangement, including a description of the equipment and the cost. | <input type="checkbox"/> | <input type="checkbox"/> |
| 2) | Did any of the DBE subcontractors utilize employees or former employees of the prime contractor or an affiliate company during the reporting period? | <input type="checkbox"/> | <input type="checkbox"/> |
| 3) | Did any of the DBE subcontractors subcontract any portion of its work to a non-DBE during the report period? If yes, explain fully. | <input type="checkbox"/> | <input type="checkbox"/> |
| 4) | Has the scope of work or the subcontract amount for any of the DBE subcontractors changed since the last report? If yes, explain fully. | <input type="checkbox"/> | <input type="checkbox"/> |

UR-1

MONTHLY CONTRACTOR DBE UTILIZATION REPORT

PART B

<u>Type of Work</u>	<u>Name of DBE</u>	Description of Work	Minority Group #	Male/Female Owned
Professional/Consultant				
Construction				
Supplies				
Equipment				
Other				

• Note, Under Minority Group Enter:

B-Black American
H-Hispanic
N-Native American

I-Asian American
P-Asian Pacific American
O-Other

By signing this form, the person individually and on behalf of the Contractor represents to the TCRA that the information contained herein is truthful, accurate, complete and not misleading.

AUTHORIZATION SIGNATURE: _____ TITLE: _____ DATE: _____

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MONTHLY EMPLOYEE UTILIZATION REPORT

This report is required by Executive Order 11246, Sec. 203. Failure to report may result in contracts being canceled, terminated or suspended in whole or in part and the Contractor may be declared ineligible for further federal funded contracts.

Reporting Period From _____ To _____	Name, Address, & Telephone No. of Contractors or Vendor								
Classifications	Total No. of Employees	Total No. of Minority & Female Emp.	Black-Not of Hispanic Origin	Hispanic	Asian or Pacific Islander	American Indian or Alaskan Native	Female	Minority Percentage *	Female Percentage *
Company Official Signature & Title						Date Signed		Page _____ of _____	

- This item presents a percentage of the total number of hours worked on said contract for the reporting period.

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6000 NW 21st Avenue
FORT LAUDERDALE, FLORIDA

FAA AIP No. 3-12-0024-030-2018 (DESIGN)
FDOT Fin Proj No. 436393-1-94-01 (DESIGN)



City of Fort Lauderdale



LOCATION SKETCH

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

FORT LAUDERDALE CITY COMMISSION

DEAN J. TRANTALIS	MAYOR
BEN SORENSEN	VICE MAYOR/ COMMISSIONER - DISTRICT IV
HEATHER MORAITIS	COMMISSIONER - DISTRICT I
STEVEN GLASSMAN	COMMISSIONER - DISTRICT II
ROBERT McKINZIE	COMMISSIONER - DISTRICT III

PROJECT MANAGER	JOB TITLE	PHONE NO.
FERNANDO BLANCO	AIRPORT ENGINEER	(954) 828-6536
THOMAS F. O'DONNELL	CIVIL ENGINEER	(561) 840-0825
PAUL HILLERS	ELECTRICAL ENGINEER	(561) 451-9165

DATE: 04-15-2019
CAD FILE: 12243-000-104COVR
DRAWING FILE No.: 4-141-45

BID SET

K:_FL_AVIAION\044693068 - FXE FOXTROT RELOCATION\CADD\PLANSHEETS\12243-C01-NOTE.DWG

GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY REGULATIONS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL CITY, COUNTY AND STATE TRAFFIC REGULATIONS CONCERNING THE USE OF STREETS AND ROADWAYS FOR DELIVERIES AND HAULING. ANY DAMAGE DONE TO THE ROADWAYS DUE TO THE CONTRACTOR'S EQUIPMENT OR HAULING OPERATIONS SHALL BE REPAIRED TO THE OWNER'S SATISFACTION, AT NO COST TO THE OWNER. ALL HAULING UNITS TRANSPORTING LOOSE MATERIALS (SOIL, LIMEROCK, ETC.) SHALL BE FULLY COVERED.
3. THE CONTRACTOR SHALL COOPERATE WITH AIRPORT AUTHORITIES, USERS, TENANTS AND FIRE DEPARTMENT WHILE WORKING ON THIS PROJECT.
4. THE CONTRACTOR'S SUPERINTENDENT SHALL BE ON THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS WHILE THIS PROJECT IS IN PROGRESS. THE CONTRACTOR'S SUPERINTENDENT SHALL BE THE DESIGNATED RESPONSIBLE CONTRACTOR REPRESENTATIVE, AND SHALL BE AVAILABLE IN CASE OF EMERGENCIES ON A 24-HOUR BASIS AND SHALL BE FLUENT IN SPOKEN ENGLISH.
5. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER.
6. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH THESE PLANS AND ALL STATE, COUNTY AND LOCAL REQUIREMENTS.
7. BARRICADES ARE TO REMAIN UNTIL ALL PROJECT CONSTRUCTION IS COMPLETED UNLESS NOTED OTHERWISE BY THE ENGINEER.
8. THE CONTRACTOR SHALL CONDUCT THE FINAL CLEANING OF AFFECTED AIRPORT PAVEMENTS PRIOR TO REOPENING THE PAVEMENTS TO AIRPORT TRAFFIC. THE CONTRACTOR IS RESPONSIBLE FOR CONTINUOUS DAILY CLEAN UP OF THE WORK AREA. THE CONTRACTOR SHALL CONDUCT VACUUM CLEANING OF AFFECTED AIRPORT PAVEMENTS PRIOR TO REOPENING EACH PHASE OF THE PAVEMENTS TO AIR TRAFFIC. CONTRACTOR SHALL CONDUCT VACUUM CLEANING OF ACTIVE AIRPORT PAVEMENTS IMMEDIATELY FOLLOWING ANY ACCESS ONTO OR CROSSING THE PAVEMENT BY CONSTRUCTION TRAFFIC.
9. ALL LOCATIONS, DIMENSIONS AND ELEVATIONS MUST BE VERIFIED BY THE CONTRACTOR IN THE FIELD BEFORE COMMENCING WORK. ANY DISCREPANCY MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
10. CONTRACTOR SHALL NOTE IN THE RECORD DRAWINGS ANY AND ALL PIPES, DUCTS AND CABLES FOUND DURING EXCAVATION. INDICATE EXACT POSITION, ELEVATION, DIRECTION, SIZE, MATERIAL, PURPOSE AND ACTIVE STATUS IF KNOWN.
11. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING ABOVE GROUND IMPROVEMENTS THAT ARE TO REMAIN IN PLACE. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED SATISFACTORY TO THE OWNER, AT THE EXPENSE OF THE CONTRACTOR.
12. IT IS THE CONTRACTORS' RESPONSIBILITY TO VERIFY AND CONFIRM THE LOCATION OF ALL UNDERGROUND FACILITIES WITHIN LIMITS OF CONSTRUCTION. ALL EXISTING UTILITIES, CABLES, EQUIPMENT, DEVICES, ETC., DESIGNATED TO REMAIN IN SERVICE WHICH ARE DAMAGED IN THE COURSE OF THE CONTRACT SHALL BE IMMEDIATELY REPAIRED AT THE EXPENSE OF THE CONTRACTOR. AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL CONTACT:

CITY OF FT. LAUDERDALE
OPERATIONS
FPL
FAA REPRESENTATIVE

PHONE: (954) 828-4955
PHONE: (954) 956-2023
PHONE: (954) 359-5687

THE CONTRACTOR SHALL CONTACT SUNSHINE STATE
ONE CALL AT 811 AT LEAST TWO (2)
WORKING DAYS PRIOR TO EXCAVATION.

EXCAVATION IN AREAS OF EXISTING UTILITIES
SHALL BE DONE BY HAND.

13. WHILE PERFORMING THE WORK, THE CONTRACTOR SHALL MAINTAIN ACCESS TO ANY AND ALL EXISTING AIRPORT OPERATIONS AND AIRCRAFT, VEHICULAR TRAFFIC AND PEDESTRIAN TRAFFIC NOT WITHIN THE CONSTRUCTION LIMITS FOR THE CURRENT PHASE OF CONSTRUCTION.
14. CONTRACTOR'S EMPLOYEES VEHICLES SHALL BE PARKED WITHIN THE CONTRACTOR'S STAGING AND STORAGE AREA. PARKING WILL NOT BE ALLOWED ALONG THE RIGHT-OF-WAY OF ANY PUBLIC ROADWAY. EMPLOYEE VEHICLES WILL NOT BE ALLOWED IN THE AIR OPERATION AREA (AOA).
15. CONSTRUCTION EQUIPMENT SHALL BE PARKED ONLY WITHIN THE CONTRACTOR'S STAGING AND STORAGE AREA OUTSIDE ESTABLISHED HOURS OF CONSTRUCTION.
16. RUBBER TIRED VEHICLES ONLY SHALL BE ALLOWED ON EXISTING AIRPORT PAVEMENT WHICH IS TO REMAIN.
17. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN THE SITE FREE OF TRASH. ALL TRASH SHALL BE TOTALLY REMOVED FROM THE WORK AREA BEFORE THE END OF EACH WORK PERIOD.
18. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL CLEAN AND RESTORE THE SITE. ALL RUBBISH AND OTHER MATERIAL SHALL BE DISPOSED OF OFF AIRPORT PROPERTY AT CONTRACTOR'S DISCRETION AND EXPENSE. THE CONTRACTOR SHALL RESTORE ALL GRASSED AND PAVED AREAS WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITY TO THEIR PRE CONSTRUCTION CONDITION.
19. COMPENSATION FOR OPERATIONS THAT ARE NECESSARY TO CONTROL EROSION AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION SHALL BE ACCORDING TO SPECIFICATION C-102 UNLESS SPECIFIC PAY ITEMS ARE SPECIFIED HEREIN.
20. ALL CONSTRUCTION STAKEOUT SHALL BE BY A QUALIFIED FLORIDA REGISTERED LAND SURVEYOR, AND IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY DEVIATIONS FROM EXISTING GRADES AS SHOWN ON THE PLANS SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER. EXISTING AIRPORT SURVEY MONUMENTS ARE LOCATED NEAR THE CONSTRUCTION AREA. THE CONTRACTOR SHALL AT THEIR EXPENSE, HAVE A QUALIFIED FLORIDA REGISTERED LAND SURVEYOR REPLACE ANY DISTURBED MONUMENT.
21. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
22. REFER TO THE CONTRACTOR ACCESS AND STAGING AREA PLAN FOR ACCESS POINTS TO BE USED BY THE CONTRACTOR FOR THIS PROJECT.
23. SPECIFICATIONS ARE PROVIDED WHICH REQUIRE THE CONTRACTOR TO APPLY EITHER WATER, CHEMICALS, VEGETATION OR OTHER MATERIALS TO PREVENT THE OCCURRENCE OF DUST WHICH WILL BE OBJECTIONABLE TO THE OPERATIONS OR USERS OF THE AREA. ALL COST FOR CONTROLLING DUST OR POLLUTANTS OF ANY KIND SHALL BE INCIDENTAL TO THE CONTRACT.

24. THE EXACT LIMITS, LIGHTING AND SECURITY REQUIREMENTS OF THE CONTRACTOR'S STAGING AND STORAGE AREA SHALL BE ESTABLISHED BY THE CONTRACTOR WITH APPROVAL OF THE OWNER IN AREAS GENERALLY AS SHOWN ON THE PLANS. ANY AND ALL REQUIRED UTILITIES FOR THE CONTRACTOR'S OPERATIONS SHALL BE ARRANGED FOR AND PAID FOR BY THE CONTRACTOR DIRECTLY WITH THE APPROPRIATE UTILITY AGENCIES. UTILITY ARRANGEMENTS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. THE CONTRACTOR SHALL USE THE STORAGE AND STAGING AREA SHOWN ON THE PLANS FOR ITS SHOP, MATERIAL AND EQUIPMENT STORAGE AND OTHER PROJECT RELATED ACTIVITIES, INCLUDING EMPLOYEE PARKING. ALL COSTS ASSOCIATED WITH PREPARING THE STORAGE AND STAGING AREA SITE SHALL BE BORNE BY THE CONTRACTOR. THIS INCLUDES, BUT IS NOT LIMITED TO, CLEARING, GRADING AND STABILIZING OF THE SITE, CONSTRUCTION OF ALL TEMPORARY UTILITIES, ACCESS ROADS, ALL SECURITY FENCING, CLEANUP AND RESTORATION OF SITE TO ORIGINAL CONDITION.
25. DO NOT SCALE DRAWINGS. USE GIVEN DIMENSIONS ONLY. LARGE SCALE PLANS GOVERN OVER SMALL SCALE PLANS.
26. THE CONTRACTOR SHALL ENDEAVOR TO PROTECT PRIVATE PROPERTY. ANY DAMAGE CAUSED BY THE CONTRACTOR IN THE PERFORMANCE OF THEIR WORK SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.
27. ANY UNITED STATES COAST AND GEODETIC SURVEY (U.S.C.&G.S.) MONUMENTATION WITHIN THE CONSTRUCTION LIMITS SHALL BE PROTECTED. IF A MONUMENT IS IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY:

THE NATIONAL GEODETIC SURVEY, INFORMATION SERVICE BRANCH,
NOAA, N/NGS12
1315 EAST-WEST HIGHWAY, ATTENTION SSMC-3 #9202
SILVER SPRING, MARYLAND 20910-3282
TELEPHONE: (301) 713-3242
28. NO ADJUSTMENT FOR ADDITIONAL COMPENSATION AND TIME WILL BE MADE FOR TIME LOST IN WORK AREAS CONTIGUOUS TO TAXIWAYS AND RUNWAYS DUE TO AIRCRAFT TRAFFIC.
29. ALL DEMOLITION WORK AND REMOVAL OF CONSTRUCTION DEBRIS SHALL BE CONDUCTED DURING HOURS APPROVED BY THE OWNER WITHOUT THE INTERRUPTION OF NORMAL AIRPORT DAILY ACTIVITIES.
30. CONTRACTOR SHALL PROVIDE CONSTRUCTION SITE ACCESS TO THE OWNER AND ITS REPRESENTATIVES FOR INSPECTION PURPOSES.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE WORK AREA AND COORDINATING THE OVERALL SECURITY OF THE WORK AREA AND MATERIAL STORAGE AND STAGING AREAS WITH THE OWNER.
32. THE CONTRACTOR IS REQUIRED TO PROVIDE LIGHTING FOR CONSTRUCTION DURING THE HOURS OF DARKNESS AS REQUIRED BY THE SPECIFICATIONS.

GENERAL EROSION CONTROL NOTES

1. THE PURPOSE OF EROSION CONTROL IS TO PREVENT POLLUTION OF BODIES OF WATER ON OR ADJACENT TO THE PROJECT SITE. IN ADDITION, EROSION CONTROL SHALL PREVENT DAMAGE TO ADJACENT PROPERTY, AIRPORT AND WORK IN PROGRESS.
2. ALL EROSION AND SILTATION MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. CARE AND MAINTENANCE OF EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH DRAWINGS, TECHNICAL SPECIFICATIONS, APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) OR AS DIRECTED BY THE ENGINEER.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT ALL EROSION CONTROL DEVICES PERIODICALLY AND AFTER EVERY RAINFALL. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
4. CONTRACTOR IS RESPONSIBLE FOR STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND RELATED ENVIRONMENTAL PERMITS.
5. CONTRACTOR WILL SUBMIT A PLAN FOR DUST CONTROL PRIOR TO ANY LAND DISTURBING ACTIVITIES PER ITEM C-102. THE PLAN MUST INCLUDE, BUT NOT BE LIMITED TO, PROVIDING A WATERING TRUCK ON A 24/7 BASIS CAPABLE OF BEING ON SITE WITHIN 30 MINUTES TO WATER DISTURBED AND UNPROTECTED SURFACES.

SYMBOLS

219		EXISTING GUIDANCE SIGNS AND SIGN NUMBER
		EXISTING RUNWAY / TAXIWAY LIGHT
		EXISTING JUNCTION CAN
		EXISTING PAPI UNIT
		BEGIN VERTICAL CURVE
		END VERTICAL CURVE
		RADIUS POINT
		POINT OF VERTICAL INTERSECTION
		HORIZONTAL AND VERTICAL CONTROL POINT
		SURVEY IRON ROD & CAP
		BORING LOCATION
		BORING CORE LOCATION
		EXISTING CONTOUR
		PROPOSED CONTOUR
		PROPOSED ELEVATION

ABBREVIATIONS

AB	AGGREGATE BASE COURSE
AC	ADVISORY CIRCULAR OR ASPHALTIC CONCRETE
AOA	AIR OPERATION AREA
APPROX	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATCT	AIR TRAFFIC CONTROL TOWER
BC	BEGIN CURVE
BVC	BEGIN VERTICAL CURVE
CL	CENTER LINE
CTB	CEMENT TREATED BASE
CY	CUBIC YARDS
DIA	DIAMETER
E	EASTING - ELECTRICAL - EAST
EA	EACH
EC	END CURVE
EL	ELEVATION
ELEV	ELEVATION
EVC	END VERTICAL CURVE
EXIST	EXISTING
FAA	FEDERAL AVIATION ADMINISTRATION
FL	FLOWLINE
FPL	FLORIDA POWER AND LIGHT
FT	FEET
FXE	FT. LAUDERDALE EXECUTIVE AIRPORT
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
HP	HIGH POINT
ILS	INSTRUMENT LANDING SYSTEM
INV	INVERT
KV	KILOVOLT
K	LENGTH OF CURVE/GRADE IN - GRADE OUT
LF	LINEAR FOOT
LP	LOW POINT
LS	LUMP SUM
LT	LEFT
MALS	MEDIUM INTENSITY AIRPORT LIGHTING SYSTEM
MALSR	MEDIUM INTENSITY AIRPORT LIGHTING SYSTEM RAIL
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MOT	MAINTENANCE OF TRAFFIC
N	NORTHING - NORTH
NAVD	NORTH AMERICAN VERTICAL DATUM
NEMA	NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
NO	NUMBER
NOTAM	NOTICE TO AIRMEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PAPI	PRECISION APPROACH PATH INDICATOR
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PROP	PROPOSED
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RP	RADIUS POINT
RPZ	RUNWAY PROTECTION ZONE
RSA	RUNWAY SAFETY AREA
RT	RIGHT
R/W	RUNWAY
RW	RIGHT-OF-WAY
S	SLOPE OR SOUTH
SF	SEMI-FLUSH OR SQUARE FEET
STA	STATION
STD	STANDARD
SY	SQUARE YARDS
TOFA	TAXIWAY OBJECT FREE AREA
TWY	TAXIWAY
TSA	TAXIWAY SAFETY AREA OR TRANSPORTATION SECURITY ADMINISTRATION
T/W	TAXIWAY
TYP	TYPICAL
VERT	VERTICAL
VC	VERTICAL CURVE
W	WEST - WATER

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THOMAS F. O'DONNELL
PROJ. No.: 02478
DATE:

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FAX:

DRAWN BY: DATE: 04-13-2019

DESIGNED BY: SCALE: N/A

CHECKED BY: TFO

FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISITONS		DESCRIPTION	
NO.	DATE	BY	CHK'D

PROJECT # 12243
TAXIWAY FOXOTROT
RELOCATION PROJECT
GENERAL NOTES

SHEET NO. OF

C01 70

TOTAL: 103

CAD FILE: 12243-C01-NOTE

DRAWING FILE NO. 4-141-45

BID SET

SUMMARY OF QUANTITIES


ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	
			CONTRACT	AS-BUILT
C-100-14.1	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	1	LS	
C-102-5.1	TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION, AND SILTATION CONTROL	1	LS	
C-105-6.1	MOBILIZATION	1	LS	
S-102-5.1	AIRPORT SAFETY AND MAINTENANCE OF TRAFFIC	1	LS	
S-103-5.1	PROJECT SURVEY	1	LS	
P-101-5.1	FULL DEPTH PAVEMENT REMOVAL	60160	SY	
P-101-5.2	BITUMINOUS PAVEMENT MILLING (VARIABLE DEPTH, MAX 2")	5670	SY	
P-101-5.3	STORMWATER PIPE/STRUCTURE REMOVAL	1080	LF	
P-101-5.4	CATCH BASIN DEMOLITION	10	EA	
P-101-5.5	AIR RELEASE VALVE MANHOLE MODIFICATIONS	1	EA	
P-101-5.7	REMOVAL, SALVAGE, AND REINSTALLATION OF NON-ELECTRICAL GUIDANCE SIGNAGE	10	EA	
P-152-4.1	UNCLASSIFIED EXCAVATION	41027	CY	
P-152-4.2	ENBANKMENT	19726	CY	
S-154-5.1	STABILIZED SUBGRADE (12" THICKNESS)	46767	SY	
S-154-6.2	STABILIZED SUBGRADE SHOULDER (6" THICKNESS)	24874	SY	
P-211-5.1	LIME ROCK BASE COURSE (11" THICKNESS)	43841	SY	
P-401-8.1	HOT MIXED ASPHALT	10547	TON	
P-602-5.1	BITUMINOUS PRIME COAT	12180	GAL	
P-603-5.1	BITUMINOUS TACK COAT	4060	GAL	
P-620-5.1	PERMANENT AIRFIELD PAINTING WITH TYPE III GLASS BEADS (YELLOW AND WHITE)	150	SF	
P-620-5.2	PERMANENT AIRFIELD PAINTING WITH TYPE I GLASS BEADS (RED SURFACE PAINTED SIGNS)	45920	SF	
P-620-5.3	PERMANENT AIRFIELD PAINTING WITH NO GLASS BEADS (BLACK)	43520	SF	
P-620-5.4	TEMPORARY AIRFIELD PAINTING WITH NO GLASS BEADS (YELLOW, WHITE, AND RED)	25310	SF	
P-620-5.5	AIRFIELD PAINT REMOVAL	4140	SF	
D-701-5.1	24" REINFORCED CONCRETE PIPE (CLASS II)	144	LF	
D-701-5.2	24" REINFORCED CONCRETE PIPE (CLASS V)	1447	LF	
D-701-5.3	36" REINFORCED CONCRETE PIPE (CLASS V)	224	LF	
D-701-5.4	60" REINFORCED CONCRETE PIPE (CLASS V)	295	LF	
D-751-5.1	MODIFY CATCH BASIN S-101	2	EA	
D-751-5.2	RELOCATE CATCH BASIN S-102	1	EA	
D-751-5.3	NEW CATCH BASIN	13	EA	
T-904-5.1	SODDING	23690	SY	
T-905-5.1	TOPSOILING 2"	23690	SY	
L-108-5.1	HAND EXCAVATE MINIMUM 8" WIDE X 28" DEEP IN EARTH.	50	LF	
L-108-5.2	HAND EXCAVATE MINIMUM 18" WIDE X 36" DEEP IN EARTH.	50	LF	
L-108-5.3	SAW CUT AND HAND EXCAVATE MINIMUM 8" WIDE X 28" DEEP IN EXISTING FULL STRENGTH PAVEMENT.	50	LF	
L-108-5.4	3/4" X 20' GROUND RODS CONNECTED TO COUNTERPOISE.	40	EA	
L-108-5.5	10' ADDITIONAL GROUND ROD SECTIONS.	40	EA	
L-108-5.6	#6 BARE SOLID AWG COUNTERPOISE CONDUCTOR INSTALLED OVER CONDUIT SYSTEM.	16500	LF	
L-108-5.7	#8, 9Kv, L-824 CONDUCTOR INSTALLED IN NEW AND EXISTING CONDUIT/DUCTBANK SYSTEM.	32700	LF	
L-109-5.1	MODIFICATION OF EXISTING ELECTRICAL SYSTEMS IN THE AIRFIELD ELECTRICAL VAULT, COMPLETE.	1	LS	
L-109-5.2	ALLOWANCE ACCOUNT: MODIFY EXISTING AIRFIELD LIGHTING CONTROL SYSTEM, COMPLETE.	1	ALL	
L-110-5.1	ONE 2" SCHEDULE 40 PVC CONDUIT DIRECT BURIED IN EARTH/NEW PAVED SHOULDER COMPLETE IN PLACE.	19600	LF	
L-110-5.2	ONE 2" SCHEDULE 40 PVC CONDUIT INSTALLED IN NEW FULL STRENGTH PAVEMENT COMPLETE IN PLACE.	5500	LF	
L-110-5.3	ONE 2" SCHEDULE 40 PVC CONDUIT INSTALLED IN EXISTING FULL STRENGTH PAVEMENT COMPLETE IN PLACE.	350	LF	
L-110-5.4	ONE 2" CONDUIT DIRECTIONAL BORED 48" DEEP BENEATH EXISTING FULL STRENGTH AND SHOULDER PAVEMENTS COMPLETE IN PLACE.	100	LF	
L-110-5.5	ONE FAA 4" SCHEDULE 40 PVC CONCRETE ENCASED SPLIT DUCT IN EARTH/NEW FULL STRENGTH PAVEMENT.	50	LF	
L-110-5.6	INTERCEPT EXISTING CONDUIT SYSTEM AND CONNECT TO NEW CONDUIT SYSTEM.	19	EA	
L-115-5.1	L-867 16" DIAMETER JUNCTION CAN WITH COVER INSTALLED IN EARTH.	2	EA	
L-115-5.2	L-867 16" DIAMETER BOTTOMLESS 2 CAN JUNCTION CAN PLAZA INSTALLED IN EARTH.	8	EA	
L-115-5.3	L-867 16" DIAMETER BOTTOMLESS 4 CAN JUNCTION CAN PLAZA INSTALLED IN EARTH.	10	EA	
L-115-5.4	INTERCEPT EXISTING LIGHT BASE CAN IN EARTH/EXISTING PAVEMENT AND CONNECT TO CONDUIT SYSTEM.	15	EA	

L-115-5.5	REMOVAL OF EXISTING JUNCTION CAN/LIGHT BASE CAN IN EARTH/EXISTING PAVEMENT, COMPLETE.	205	EA	
L-115-5.6	REMOVAL OF EXISTING CONCRETE MANHOLE, COMPLETE.	8	EA	
L-115-5.7	REMOVAL OF EXISTING INPAVEMENT FIXTURE, L-868 TOP SECTION AND SPACERS FROM THE EXISTING BASE CAN BOTTOM SECTION, COMPLETE.	2	EA	
L-115-5.8	ABANDON EXISTING L-867 JUNCTION CAN/LIGHT BASE CAN IN EARTH/EXISTING PAVEMENT AND PROVIDE AND INSTALL NEW 1/2" THICK STEEL L-867 COVER, COMPLETE.	4	EA	
L-125-5.1	NEW L-861(T)(L), LED TAXIWAY ELEVATED EDGE LIGHT AND BASE CAN INSTALLED IN EARTH.	190	EA	
L-125-5.2	NEW L-861(T)(L), LED TAXIWAY ELEVATED EDGE LIGHT AND NEW BASE CAN INSTALLED IN EXISTING FULL STRENGTH PAVEMENT.	8	EA	
L-125-5.3	NEW L-861(T)(L), LED TAXIWAY ELEVATED EDGE LIGHT INSTALLED ON EXISTING BASE CAN.	20	EA	
L-125-5.4	RELOCATED L-850(C/L), LED, ALUMINUM FLUSH MOUNTED RUNWAY EDGE LIGHT AND NEW TOP SECTION INSTALLED ON EXISTING BASE CAN.	2	EA	
L-125-5.5	RELOCATED L-862(L), LED, ELEVATED RUNWAY EDGE LIGHT AND NEW TELESCOPIC LIGHT BASE CAN INSTALLED ON EXISTING FULL STRENGTH PAVEMENT.	1	EA	
L-125-5.6	INTERCEPT EXISTING CIRCUIT CONDUCTORS IN EXISTING BASE CAN/MANHOLE /JUNCTION CAN AND EXTEND CIRCUITS ACCORDINGLY.	24	EA	
L-125-5.7	IDENTIFICATION OF CABLES, DUCTBANKS AND LIGHTING FIXTURES PER FAA SPECIFICATIONS.	1	LS	
L-126-5.1	REMOVAL OF EXISTING GUIDANCE SIGN AND CONCRETE BASE IN EARTH/EXISTING PAVEMENT, COMPLETE.	30	EA	
L-126-5.2	REMOVAL OF EXISTING GUIDANCE SIGN AND ABANDONING OF EXISTING CONCRETE BASE IN EXISTING FULL STRENGTH PAVEMENT, COMPLETE.	1	EA	
L-126-5.3	NEW L-858, SIZE 1, 1-2 CHARACTERS LED GUIDANCE SIGN AND CONCRETE BASE INSTALLED IN EARTH.	1	EA	
L-126-5.4	NEW L-858, SIZE 1, 3-4 CHARACTERS LED GUIDANCE SIGN AND CONCRETE BASE INSTALLED IN EARTH.	8	EA	
L-126-5.5	NEW L-858, SIZE 1, 5-6 CHARACTERS LED GUIDANCE SIGN AND CONCRETE BASE INSTALLED IN EARTH.	9	EA	
L-126-5.6	NEW L-858, SIZE 1, 7-8 CHARACTERS LED GUIDANCE SIGN AND CONCRETE BASE INSTALLED IN EARTH.	1	EA	
L-126-5.7	NEW L-858, SIZE 1, 1-2 CHARACTERS LED GUIDANCE SIGN AND CONCRETE BASE INSTALLED IN EXISTING FULL STRENGTH PAVEMENT.	4	EA	
L-126-5.8	NEW L-858, SIZE 1, 3-4 CHARACTERS LED GUIDANCE SIGN AND CONCRETE BASE INSTALLED IN EXISTING FULL STRENGTH PAVEMENT.	3	EA	
L-126-5.9	ALLOWANCE ACCOUNT: PROVIDE NEW SIGN LEGEND PANELS, COMPLETE.	1	ALL	
L-126-5.10	RELOCATED L-858, SIZE 1, 3-4 CHARACTERS LED GUIDANCE SIGN WITH NEW CONCRETE BASE INSTALLED IN EARTH.	5	EA	
L-126-5.11	RELOCATED L-858, SIZE 1, 3-4 CHARACTERS LED GUIDANCE SIGN, INSTALL ALLOWANCE ACCOUNT SIGN LEGEND PANELS, AND NEW CONCRETE BASE INSTALLED IN EARTH.	1	EA	
L-126-5.12	RELOCATED L-858, SIZE 1, 5-6 CHARACTERS LED GUIDANCE SIGN, INSTALL ALLOWANCE ACCOUNT SIGN LEGEND PANELS, AND NEW CONCRETE BASE INSTALLED IN EARTH.	2	EA	
L-126-5.13	RELOCATED L-858, SIZE 1, 7-8 CHARACTERS LED GUIDANCE SIGN, INSTALL ALLOWANCE ACCOUNT SIGN LEGEND PANELS, AND NEW CONCRETE BASE INSTALLED IN EARTH.	1	EA	
	TAXIWAY FOXTROT BASE BID TOTAL			

ENGINEER:
THOMAS F. O'DONNELL
REG. No: 62478
DATE:

TEL: 561-840-0825
FAX:

DRAWN BY: ALB	DATE: 04-15-2019
DESIGNED BY: MM	SCALE: N/A
CHECKED BY: TFO	
FIELD BOOK:	



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

[illegible]

PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
SUMMARY OF QUANTITIES

SHEET NO.	OF
C02	70
TOTAL:	103
CAD FILE: 12243-C02-QUAN	
DRAWING FILE NO. 4-141-45	

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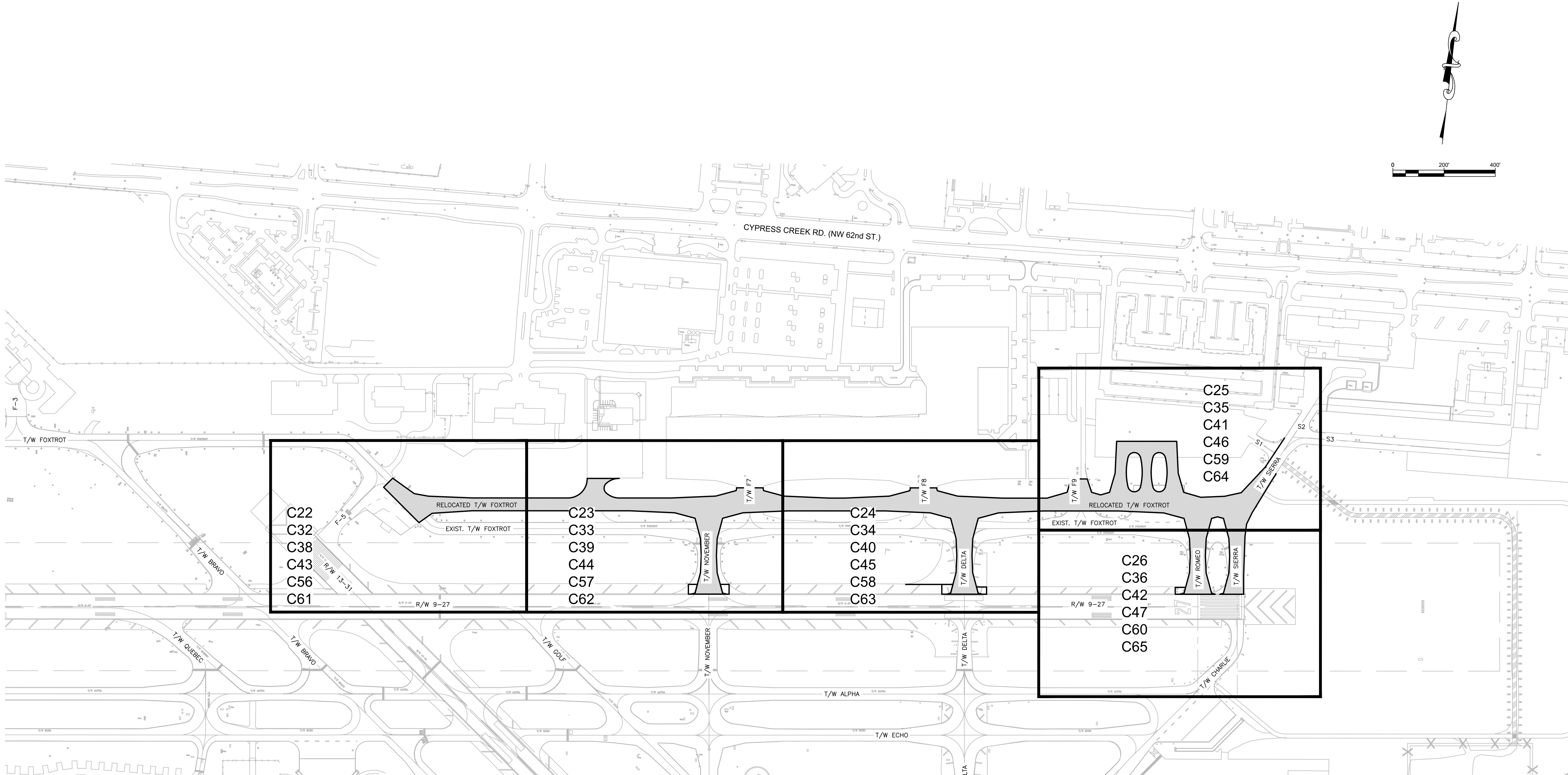
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BID SET



LEGEND

- C22 - C26 EXISTING CONDITIONS
- C32 - C36 DEMOLITION
- C38 - C42 PAVEMENT GEOMETRY PLANS
- C43 - C47 GRADING PLAN
- C56 - C60 SPOT ELEVATION PLANS
- C61 - C65 PAVEMENT MARKING PLANS
-  RELOCATED TAXIWAY FOXTROT


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(561) 451-4886 FAX

BID SET

PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
KEY MAP

NO.	DATE	BY	CHK'D	REVISIONS	DESCRIPTION

DRAWN BY:	ALB	DATE:	04-15-2019
DESIGNED BY:	MM	SCALE:	AS NOTED
CHECKED BY:	TFO		
FIELD BOOK:			

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


ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62476
DATE:


TEL 561-840-0825
FAX:

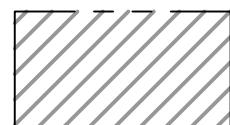
SHEET NO.	OF
C03	70
TOTAL:	103
CAD FILE:	12243-C03-KMAP
DRAWING FILE NO.	4-141-45

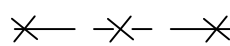
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LEGEND

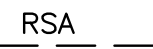
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ACCESS / HAUL ROUTE
- 

CONTRACTOR'S STAGING AND STORAGE AREA. MAXIMUM EQUIPMENT HEIGHT = 20'
- 

PROJECT WORK AREA
- 

TEMPORARY SECURITY FENCE.
- 

TYPE II BARRICADE WITH FLASHING LIGHT AT 30' SPACING. SEE DETAIL SHEET C05.
- 

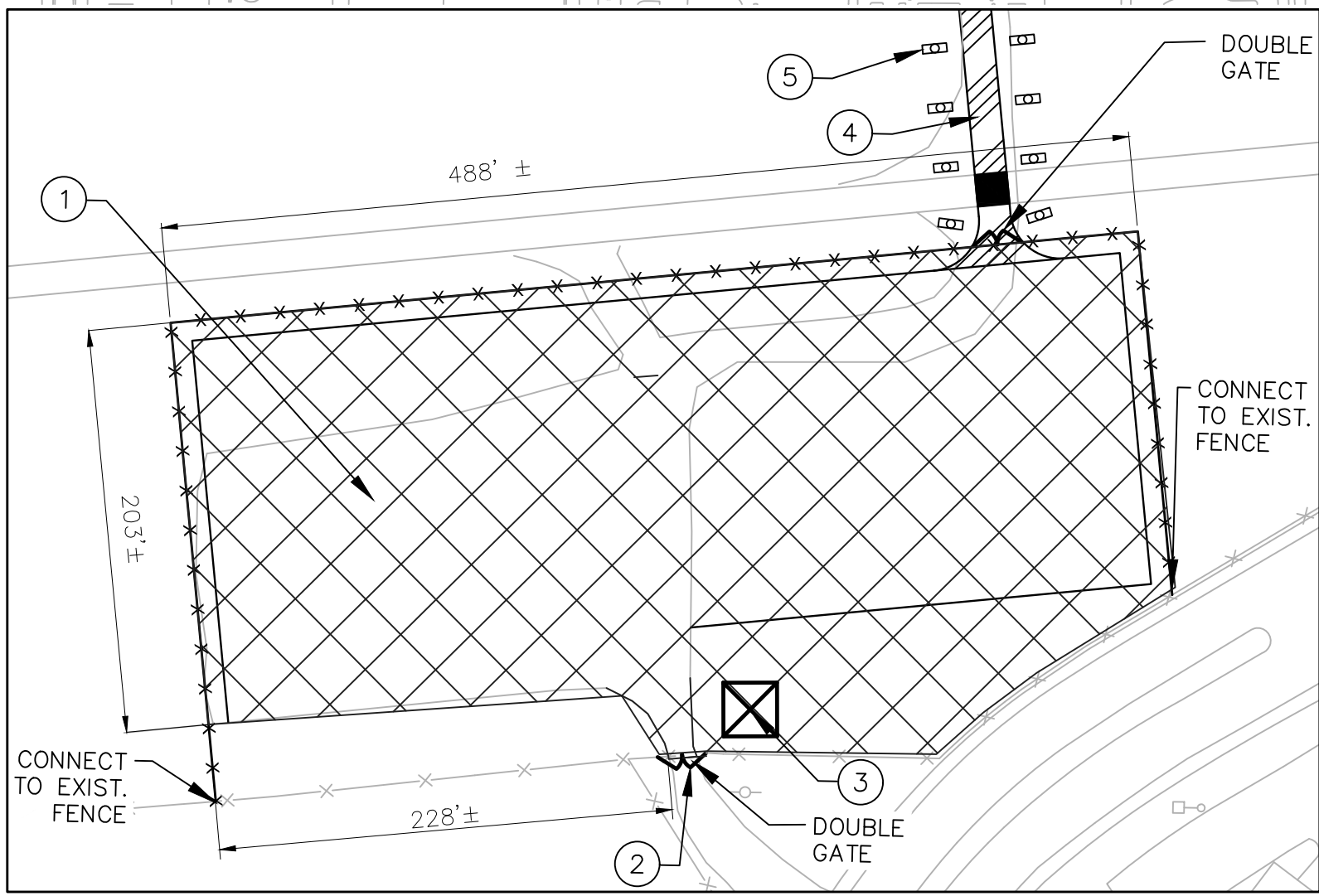
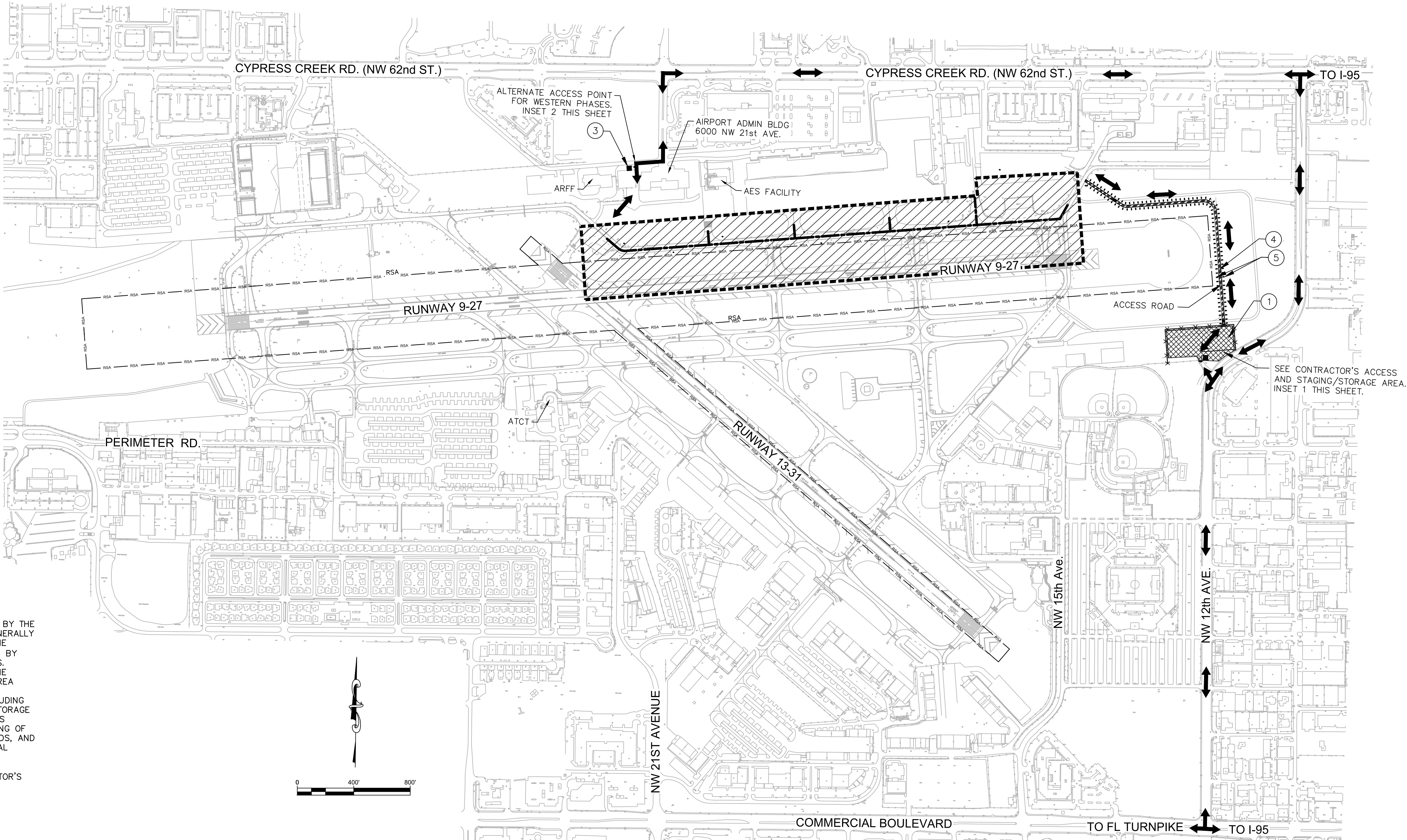
RSA RUNWAY SAFETY AREA
- 1 CONTRACTOR'S STAGING AND STORAGE AREA. STAGING AREAS SHALL BE CONSTRUCTED AS TO AVOID OWL/GOPHER TORTOISE BURROWS. EMPLOYEE VEHICLES SHALL NOT GO BEYOND CONTRACTOR'S FENCED STAGING AREA.
- 2 CONTRACTOR'S ACCESS GATE. CONTRACTOR TO REMOVE EXISTING GATES PRIOR TO CONSTRUCTION. TEMPORARY DOUBLE GATES TO BE INSTALLED. TEMPORARY GATES TO BE REMOVED AND ORIGINAL GATES RESTORED AFTER CONSTRUCTION IS COMPLETE. INSTALLATION AND REMOVAL OF TEMPORARY GATES TO BE INCLUDED IN MOBILIZATION PAY ITEM.
- 3 CONTRACTOR'S SECURITY GUARD SHACK LOCATION.
- 4 APPROXIMATE LOCATION OF TEMPORARY ACCESS ROAD. LOCATION TO BE FIELD ADJUSTED TO AVOID EXISTING OWL/GOPHER TORTOISE BURROWS AND AS DIRECTED BY OWNER. REMOVE AND SOD WHEN CONSTRUCTION IS COMPLETE. SEE DETAILS ON SHEET C28.
- 5 TYPE II BARRICADE WITH FLASHING LIGHT AT 30" SPACING. SEE DETAIL SHEET C05.

CONTRACTOR STAGING AREA NOTES:

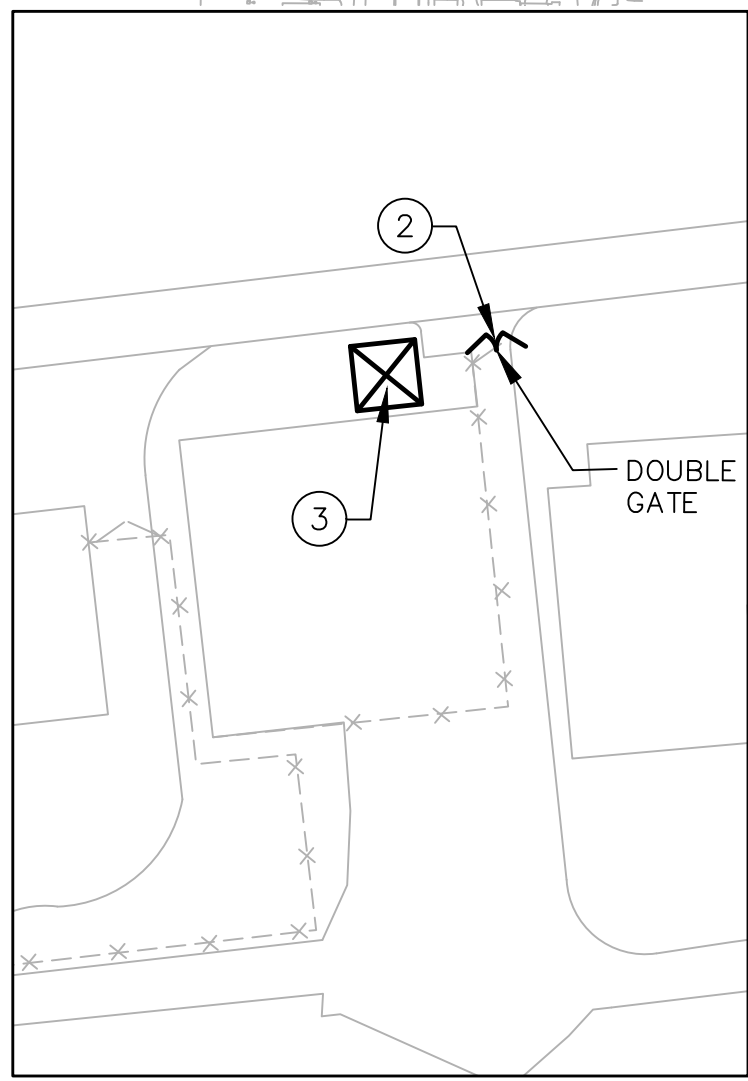
1. THE EXACT LIMITS, LIGHTING AND SECURITY REQUIREMENTS OF THE CONTRACTOR'S STAGING AND STORAGE AREA SHALL BE ESTABLISHED BY THE CONTRACTOR WITH THE APPROVAL OF THE OWNER IN THE AREAS GENERALLY AS SHOWN ON THE PLANS. ANY AND ALL REQUIRED UTILITIES FOR THE CONTRACTOR'S OPERATIONS SHALL BE ARRANGED FOR AND PAID FOR BY THE CONTRACTOR DIRECTLY WITH THE APPROPRIATE UTILITY AGENCIES. UTILITY ARRANGEMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER. THE CONTRACTOR SHALL USE THE STORAGE AND STAGING AREA SHOWN ON THE PLANS FOR ITS FIELD OFFICE, SHOP, MATERIAL AND EQUIPMENT STORAGE, AND OTHER PROJECT RELATED ACTIVITIES, INCLUDING EMPLOYEE PARKING. ALL COSTS ASSOCIATED WITH PREPARING THE STORAGE AND STAGING AREA SITE SHALL BE BORNE BY THE CONTRACTOR. THIS INCLUDES BUT IS NOT LIMITED TO, CLEARING, GRADING AND STABILIZING OF THE SITE, CONSTRUCTION OF ALL TEMPORARY UTILITIES, ACCESS ROADS, AND SECURITY FENCING, CLEAN-UP AND RESTORATION OF SITE TO ORIGINAL CONDITION.
2. CONSTRUCTION EQUIPMENT SHALL BE PARKED ONLY WITHIN CONTRACTOR'S STAGING AND STORAGE AREA OUTSIDE OF ESTABLISHED HOURS OF CONSTRUCTION.

ACCESS AND HAUL ROAD NOTES:

1. HAUL ROADS TO BE USED UNDER THIS PROJECT SHALL BE THOSE INDICATED ON THE DRAWINGS OR OTHERWISE SPECIFICALLY AUTHORIZED BY THE OWNER. IN GENERAL, THE CONTRACTOR SHALL CONFINE EQUIPMENT AND HAULING TO THE AREAS UNDER CONSTRUCTION. NO DEBRIS SHALL BE ALLOWED ON THE ROADWAYS OR AIRPORT PAVED SURFACES. ACTIVE TAXIWAYS SHALL BE KEPT FREE OF DEBRIS AT ALL TIMES. CONTRACTOR SHALL MAINTAIN VACUUM SWEEPERS ON SITE FOR THAT USE. OTHER PAVEMENTS SHALL BE CLEANED BY THE CONTRACTOR DAILY, AND AS REQUIRED, USING VACUUM SWEEPERS TO KEEP ALL ACCESS AND CONSTRUCTION AREAS CLEAR OF SOILS, CLODS OR OTHER DEBRIS.
2. THE ACCESS POINTS TO THE PROJECT SITE ARE SHOWN ON THE PLANS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL AIRPORT SERVICE ROADS TO THEIR PRECONSTRUCTION CONDITION WHERE SUCH ROADS ARE USED BY THE CONTRACTOR FOR HAULING OPERATIONS.
4. THE CONTRACTOR SHALL RESTORE ALL TURFED AND PAVED AREAS USED FOR HAUL ROADS TO THEIR ORIGINAL CONDITION, INCLUDING THE ESTABLISHMENT OF TURF. ALL COSTS FOR CONSTRUCTING, REMOVING AND RESTORING OF HAUL ROADS REQUIRED FOR THE COMPLETION OF THE WORK SHALL BE BORNE BY THE CONTRACTOR.
5. THE CONTRACTOR SHALL NOT PERMIT ANY UNAUTHORIZED CONSTRUCTION PERSONNEL OR TRAFFIC ON THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL TO AND FROM THE VARIOUS CONSTRUCTION AREAS ON THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR THE IMMEDIATE CLEAN-UP OF ANY DEBRIS DEPOSITED AT THE PROJECT SITE AND ALONG ANY ROAD AS A RESULT OF HIS/HER CONSTRUCTION TRAFFIC. DIRECTIONAL SIGNAGE AT THE ACCESS GATE AND ALONG THE DELIVERY ROUTE TO THE STORAGE AREA OR WORK SITE SHALL BE APPROVED BY THE OWNER. ALL CONTRACTOR'S MATERIAL ORDERS FOR DELIVERY TO THE SITE SHALL BE DIRECTED TO THE ACCESS POINTS IDENTIFIED.
6. RUBBER TIERED VEHICLES ONLY SHALL BE ALLOWED ON EXISTING AIRPORT PAVEMENT WHICH IS TO REMAIN.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF-SITE ROUTES (STATE HIGHWAYS, COUNTY ROADS OR CITY STREETS) WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE.
8. ALL CONTRACTOR VEHICLES AND TRAFFIC SHALL REMAIN WITHIN THE DESIGNATED CONSTRUCTION AREAS, STAGING AREAS OR HAUL ROUTES.



INSET 1 - CONTRACTOR'S ACCESS AND STAGING / STORAGE AREA



INSET 2 - ALTERNATE ACCESS POINT FOR WESTERN PHASES

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ENGINEERING, INC.
23297 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33428
(561) 451-9165 PHONE
(561) 451-4886 FAX

BID SET

PROJECT # 12243
TAXIWAY FOX TROT
RELOCATION PROJECT
ACCESS AND STAGING PLAN

SHEET NO.	OF
C04	70
TOTAL:	103
CAD FILE:	12243-C04-STAG
DRAWING FILE NO.	4-141-45

ENGINEER:
THOMAS F. O'DONNELL
PROJ. NO.: 62476
DATE:

DRAWN BY: DATE: 04-15-2019
ALB
DESIGNED BY: SCALE: AS NOTED
MM
CHECKED BY: TFO
FIELD BOOK:

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

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHK'D

CAM19-1062
Exhibit 3B - Part 2 of 4
Page 23 of 37

K:\F\AVIATION\044693068 - FXE FOX TROT RELOCATION\CADD\PLANSHEETS\12243-C05-SAFE.DWG

CONSTRUCTION SAFETY NOTES:

1. ALL CONSTRUCTION FOR THIS PROJECT SHALL CONFORM TO THE GUIDELINES SET FORTH IN FEDERAL AVIATION ADMINISTRATION (FAA) AC150/5370-2G "OPERATIONAL SAFETY AIRPORTS DURING CONSTRUCTION", AND THESE PLANS AND SPECIFICATIONS.

2. CONSTRUCTION ACTIVITIES ARE NOT PERMITTED WITHIN THE RUNWAY SAFETY AREA (RSA) OF ANY RUNWAY THAT IS OPEN FOR AIRCRAFT OPERATIONS. (SEE SECTION 221, AC 150/5370-2G, CHAPTER 2)

3. CONSTRUCTION ACTIVITIES ARE NOT PERMITTED WITHIN TAXIWAY SAFETY AREA (TSA) OF AN ACTIVE TAXIWAY PLUS AN ON-APRON TAXILANE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNER. (SEE SECTION 211, AC No. 150/5370-2G, CHAPTER 2)

4. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER. THIS SPECIFICALLY INCLUDES THE RUNWAY PROTECTION ZONES AND THE RUNWAY AND TAXIWAY CONSTRUCTION SAFETY LIMITS IDENTIFIED IN CONSTRUCTION NOTES 2 AND 3 ABOVE.

5. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY LOCALIZER OR GLIDE SLOPE CRITICAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.

6. IN ORDER FOR THE CONTRACTOR TO OPERATE WITHIN THE AIR OPERATIONS AREA, APPROPRIATE NOTICES TO AIRMEN (NOTAMS) MUST BE ISSUED BY THE OWNER THROUGH THE FAA FLIGHT SERVICE STATION. THESE NOTICES PROVIDE INFORMATION ON CLOSED, LIMITED, OR HAZARDOUS CONDITIONS TO AIRMEN AND USERS OF THE AIRPORT. A 72-HOUR NOTICE IS REQUIRED FOR ISSUANCE OF THE NOTAM. ALL CONSTRUCTION OPERATIONS MUST BE CLOSELY COORDINATED WITH THE OWNER FOR NOTAM ISSUANCE.

7. AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
8. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE WITHIN THE SECURITY FENCE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'x3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG, EACH CHECKERBOARD COLOR BEING 1'SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLES SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.

9. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.

10. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS ARE PROVIDED AND HAVE BEEN APPROVED BY THE OWNER.

11. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.

12. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT, WIND, AND/OR OTHER REASON.

13. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT ITS OWN EXPENSE.

14. CONTRACTOR GENERATED DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPING WITHIN THESE AREAS SHALL BE REMOVED IMMEDIATELY AND CONTINUOUSLY DURING WORKING HOURS.

15. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER ITS CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.

16. CONTRACTOR ACCESS GATES SHALL BE MANNED BY A CONTRACTOR SUPPLIED GATE GUARD OR REMAIN LOCKED AT ALL TIMES. APPROVED GATE GUARD SHALL CONTROL ACCESS TO ALLOW ONLY AUTHORIZED CONSTRUCTION TRAFFIC TO ENTER THE SITE.

17. AIRPORT STAFF SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING THE SECURED AREA OF THE AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS. NO PRIVATE VEHICLES WILL BE ALLOWED ON THE AIRPORT.

18. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS USING ORANGE CONSTRUCTION FENCE. CONFINEMENT, EQUIPMENT AND MATERIALS OUTSIDE OF THE TAXIWAY OBJECT FREE AREA (TOFA) WHEN TAXIWAY IS ACTIVE.

19. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY LIGHTED BARRICADES EVERY 30 FEET BOTH SIDE OF HARD ROAD TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.

20. THE CONTRACTOR SHALL HAVE ACCESS TO THE SECURED AREA OF THE AIRPORT ONLY AT THE LOCATION DESIGNATED ON THE PLANS OR APPROVED BY THE OWNER. ALL OTHER ACCESS SHALL BE BY SPECIAL REQUEST AND SUBJECT TO APPROVAL BY THE OWNER. THE CONTRACTOR SHALL PROVIDE FLAGMEN TO COORDINATE AND CONTROL CONSTRUCTION TRAFFIC WHEN OPERATING ACROSS ANY ACTIVE TAXIWAY OR APRON.

21. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG TAXIWAY EDGES WHEREVER OPEN EXCAVATIONS OR IRREGULAR GRADES ARE LEFT WITHIN THE SAFETY AREA OF AN ACTIVE TAXIWAY OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE PLACED IN A CONTINUOUS LINE OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES.

22. THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO PREVENT ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.

23. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.

24. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN OR MANDATED BY FAA OR TSA. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.

25. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES WHO REQUIRE ACCESS TO THE SECURE AREA OF THE AIRPORT SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.

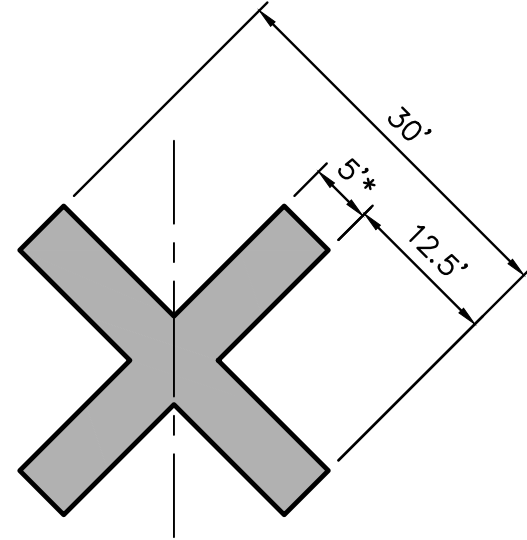
26. ALL CONTRACTOR PERSONNEL WHO REQUIRE ACCESS TO THE SECURE AREA OF THE AIRPORT SHALL HAVE OWNER ISSUED IDENTIFICATION BADGES DISPLAYED AT ALL TIMES WHEN WORKING INSIDE THE AIRCRAFT OPERATIONS AREA. THE AIRPORT ID PROGRAM IS UNDER CONSTANT REVIEW BY THE FAA AND THE AUTHORITY AND ALL CONTEMPORARY REQUIREMENTS WILL GOVERN. THE CONTRACTOR SHALL ASSIGN THE CONTRACTOR SECURITY OFFICER DESCRIBED ABOVE AS THE SINGLE POINT CONTACT FOR ALL IDENTIFICATION BADGING REQUIREMENTS.

27. THE CONTRACTOR SHALL ACQUAINT ITS SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT ITS CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.

28. ITEMS FOR CONTROL OF SAFETY DURING CONSTRUCTION SUCH AS VEHICLE LIGHTING, ETC. SHALL BE PAID FOR IN ACCORDANCE WITH SPECIFICATION S-102 AND SHALL BE CONSIDERED AS A SUBSIDIARY OBLIGATION FOR THE CONTRACTOR COVERED UNDER THESE ITEMS.

29. SEE PHASING PLANS SHEETS C06 THROUGH C17 FOR BARRICADE LOCATIONS.

TEMPORARY TAXIWAY CLOSURE MARKER



* FOR TEMPORARY X'S THIS DIMENSION MAY BE CHANGED TO 4 FEET.

CLOSED TAXIWAY MARKING NOTES:

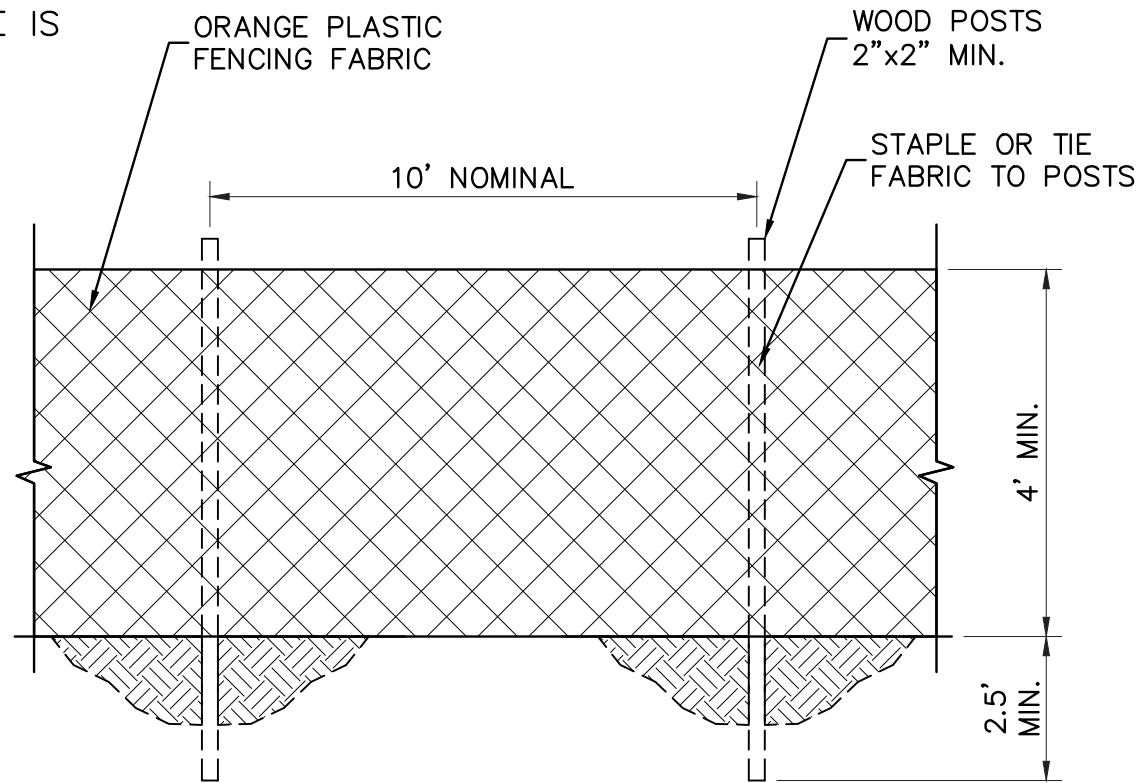
1. TEMPORARY CLOSED TAXIWAY MARKINGS SHALL BE CONSTRUCTED OF AN EASILY REMOVABLE MATERIAL, SUCH AS PLYWOOD OR FABRIC, AND HELD IN PLACE WITH SAND BAGS PAINTED YELLOW. TEMPORARY CLOSED TAXIWAY MARKING SHALL BE YELLOW IN COLOR.

2. THE CONTRACTOR SHALL PLACE TEMPORARY CLOSED TAXIWAY MARKINGS ON THE CENTERLINE OF THE FACILITY TO BE CLOSED AS SHOWN ON PLANS OR AS DIRECTED BY THE AIRPORT ENGINEER.

3. NO PAYMENT WILL BE MADE FOR RELOCATIONS OF TEMPORARY CLOSED TAXIWAY MARKINGS.

4. PAYMENT FOR ITEM IS INCLUDED IN S-102. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM.

CONSTRUCTION FENCE DETAIL



TEMPORARY LIGHTED RUNWAY CLOSURE MARKER MARKER



- NOTES:
1. THE CONTRACTOR SHALL PROVIDE FULLY FUNCTIONING PORTABLE LIGHTED RUNWAY CLOSURE MARKERS FOR THE PROJECT.

2. THE FUEL AND MAINTENANCE COSTS ASSOCIATED WITH USING THE PORTABLE LIGHTED RUNWAY CLOSURE MARKERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGHOUT THE CONSTRUCTION. THIS INCLUDES REPLACING THE ENGINE AND/OR GENERATOR. ANY REPAIRS REQUIRED TO THE PORTABLE LIGHTED RUNWAY CLOSURE MARKERS SHALL BE AT THE CONTRACTOR'S EXPENSE, WITH NO ADDITIONAL COMPENSATION.

3. THE CONTRACTOR SHALL CLEAN, REPAIR AND REPLACE ANY DAMAGED PARTS ON THE PORTABLE LIGHTED RUNWAY CLOSURE MARKERS.

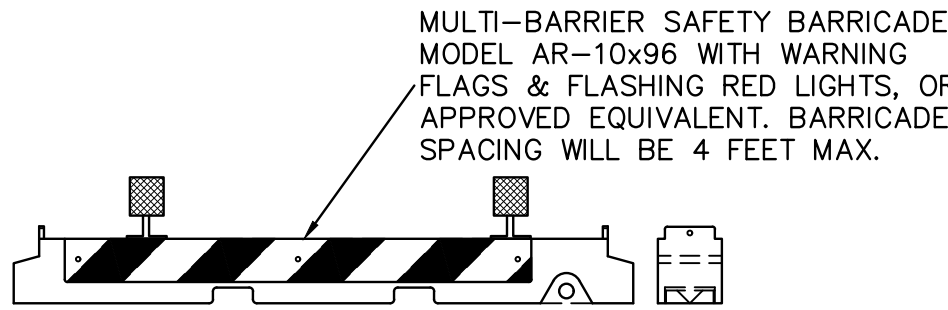
4. CONTRACTOR IS RESPONSIBLE FOR CLEANING & REPAIRING ANY DAMAGE CAUSED BY FLUID LEAKS.

TEMPORARY SECURITY DOUBLE SWING GATE NOTES:

1. TEMPORARY GATES TO BE REMOVED AFTER CONSTRUCTION IS COMPLETE. COST OF GATES ARE TO BE INCLUDED IN MOBILIZATION PAY ITEM. EXACT LOCATION TO BE COORDINATED WITH OWNER.

2. STORAGE GATE DOES NOT REQUIRE BARBED WIRE.

LOW LEVEL AIRFIELD BARRICADE DETAIL



LOW LEVEL AIRFIELD BARRICADE NOTES:

1. BARRICADES SHALL BE PLACED AS SHOWN ON THE PHASING PLAN SHEETS C06 THROUGH C17 TO DELINEATE THE CONTRACTOR'S WORK AREAS.

2. BARRICADE SECTIONS CAN BE WHITE OR ORANGE WITH WHITE AND ORANGE RETRO-REFLECTIVE MARKING OR STICKERS. BARRICADES WILL BE LIGHTED AND FLAGGED.

3. ALL BARRICADES SHALL BE CHECKED VISUALLY FOR SIGNS OF WEAR AND TEAR ON A WEEKLY BASIS AND SHALL BE REPAIRED OR REPLACED WHEN DEEMED APPROPRIATE BY THE ENGINEER. THE CONDITIONS OF LIGHTING UNITS SHALL BE CHECKED DAILY. ALL LIGHT FIXTURES SHALL BE VERIFIED OPERATING BY THE CONTRACTOR ON A DAILY BASIS BEFORE THE CONTRACTOR CEASES OPERATION FOR THE DAY. THE AREAS AROUND ALL BARRICADES SHALL BE CLEANED AS DIRECTED IN THE GENERAL NOTES AND THE SAFETY NOTES.

4. BARRICADES ALONG ACTIVE APRON OR TAXIWAY PAVEMENT SHALL BE PLACED APPROXIMATELY 4 FEET FROM THE EDGE OF THE FULL STRENGTH PAVEMENT. BARRICADES SHALL BE PLACED IN A CONTINUOUS LINE.

5. ALTERNATE FORMS OF BARRICADES MAY BE PROPOSED BY THE CONTRACTOR WHICH MEET THESE FUNCTIONAL REQUIREMENTS. APPROVALS OF ANY SUCH SUBSTITUTION (IF GRANTED) SHALL BE BY THE OWNER AT NO ADDITIONAL COST TO THE OWNER.

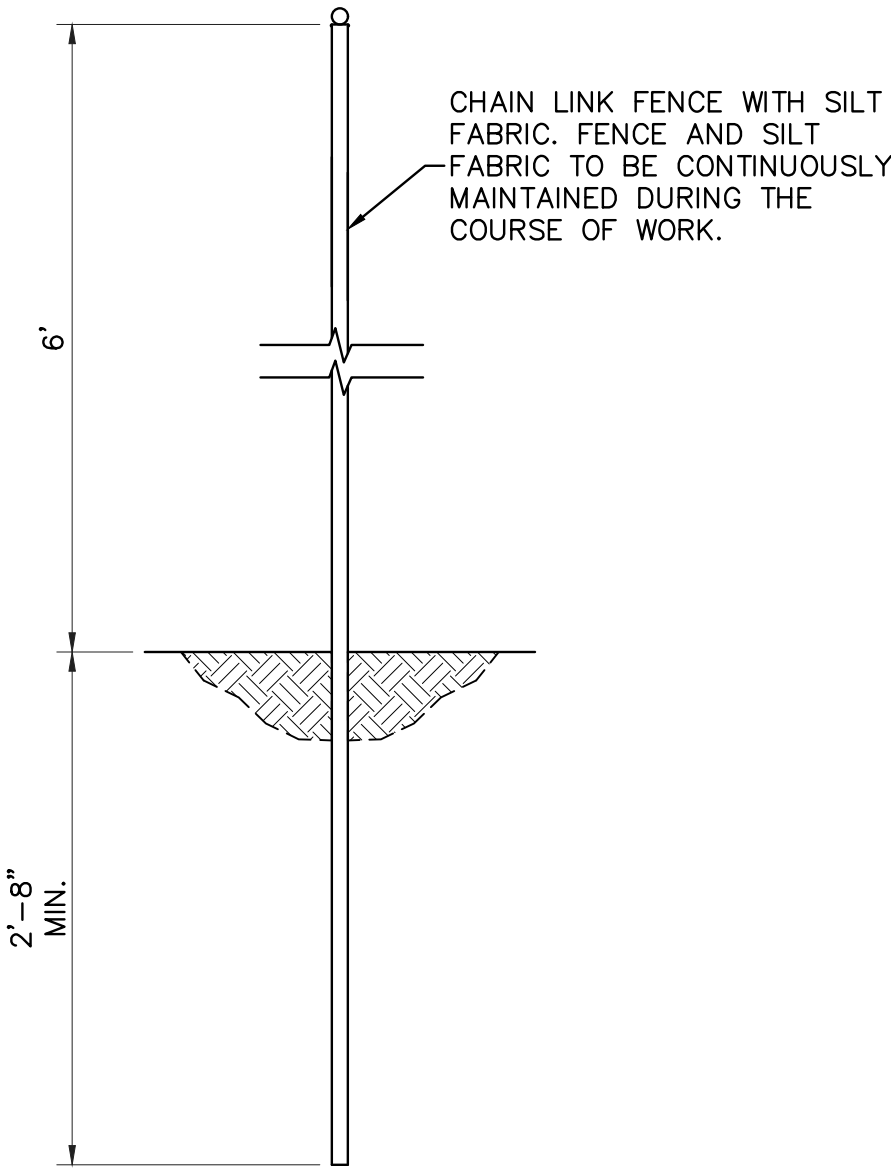
6. THE FINAL LOCATION FOR THE BARRICADES SHALL BE ESTABLISHED IN THE FIELD WITH CONCURRENCE FROM THE OWNER.

7. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, RELOCATE AND REMOVE ALL BARRICADES. ALL WORK SHALL BE INCIDENTAL TO S-102 IN THE A.O.A.

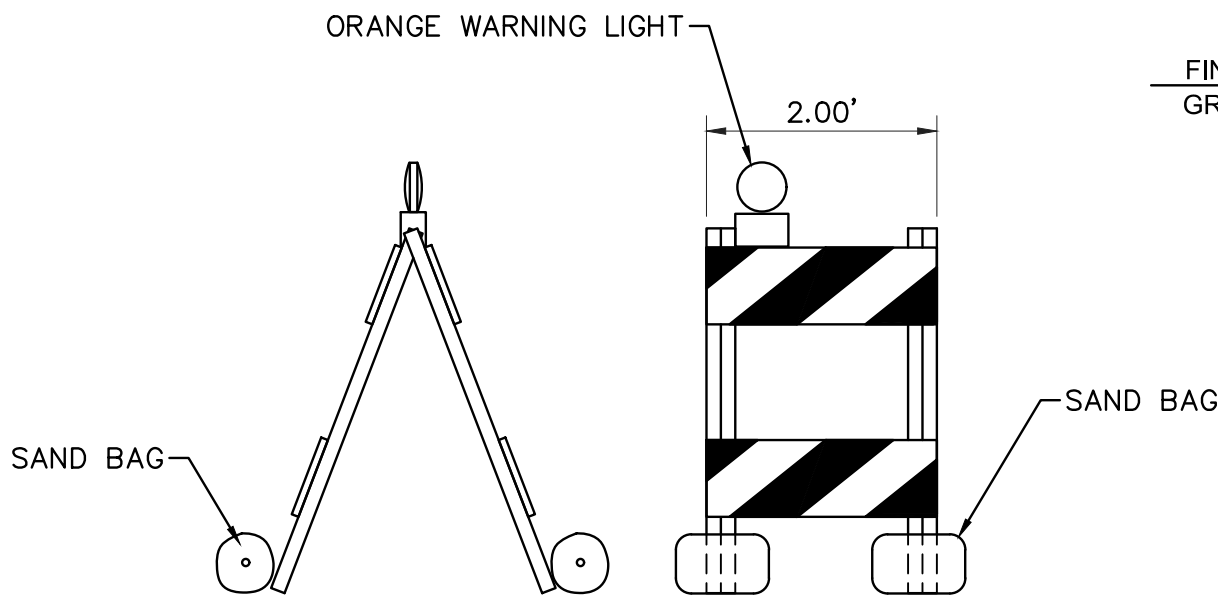
8. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND THE BARRICADES IN OPERABLE CONDITION. THE CONTRACTOR SHALL HAVE REPLACEMENT LIGHTS AND BATTERIES ON SITE AND SHALL REPLACE LIGHTS AND/OR BATTERIES WITHIN ONE HOUR OF NOTIFICATION BY THE ENGINEER OR AIRPORT PERSONNEL. CONTRACTOR SHALL FURNISH THE OWNER WITH THE NAME AND TELEPHONE NUMBER FOR AN ON-CALL REPRESENTATIVE 24 HOURS PER DAY, SEVEN DAYS PER WEEK TO REPLACE BATTERIES AND INOPERATIVE LIGHTS AND MAINTAIN THE BARRICADES.

9. FLASHING LIGHTS SHALL BE PLACED AT THE ENDS AND AT CORNERS OF EACH LINE OF BARRICADES. ALL OTHER LIGHTS ON BARRICADES SHALL BE STEADY-BURN.

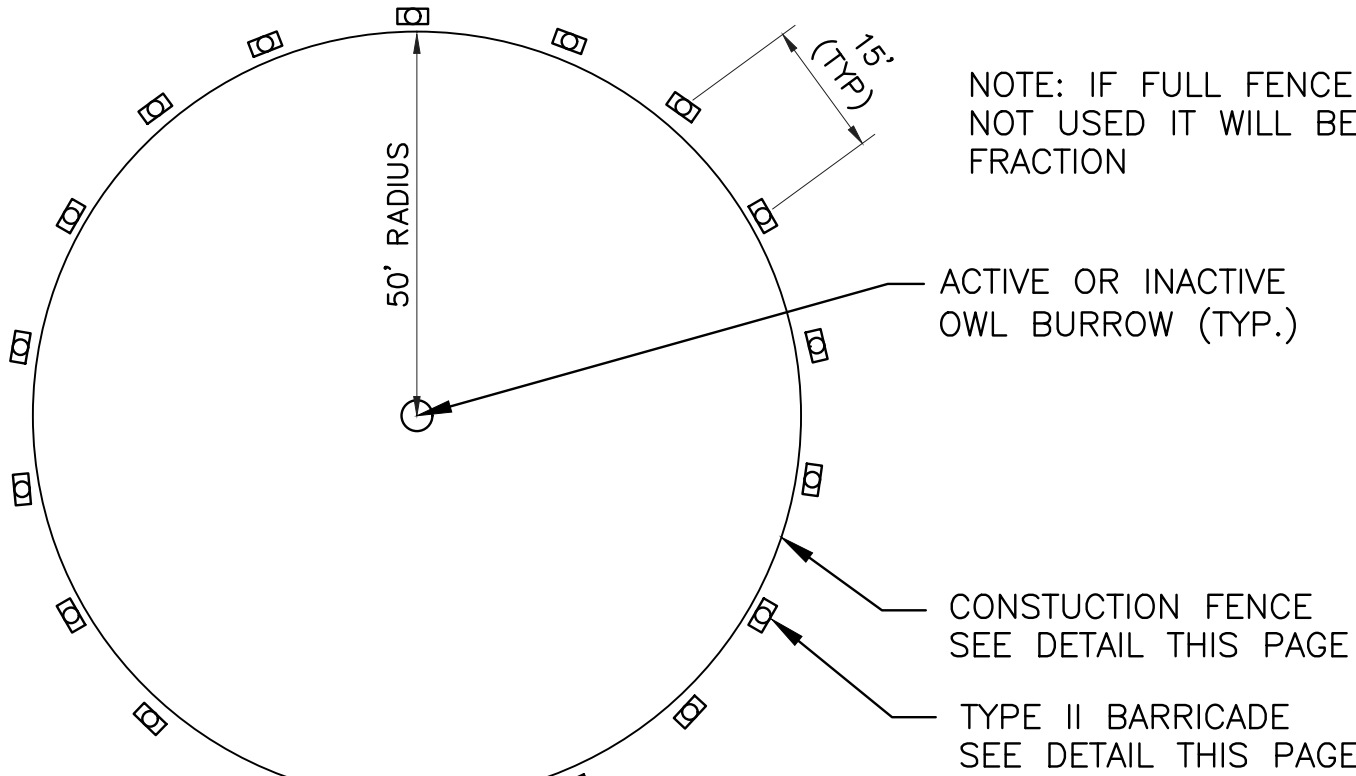
TEMPORARY SECURITY FENCE DETAIL



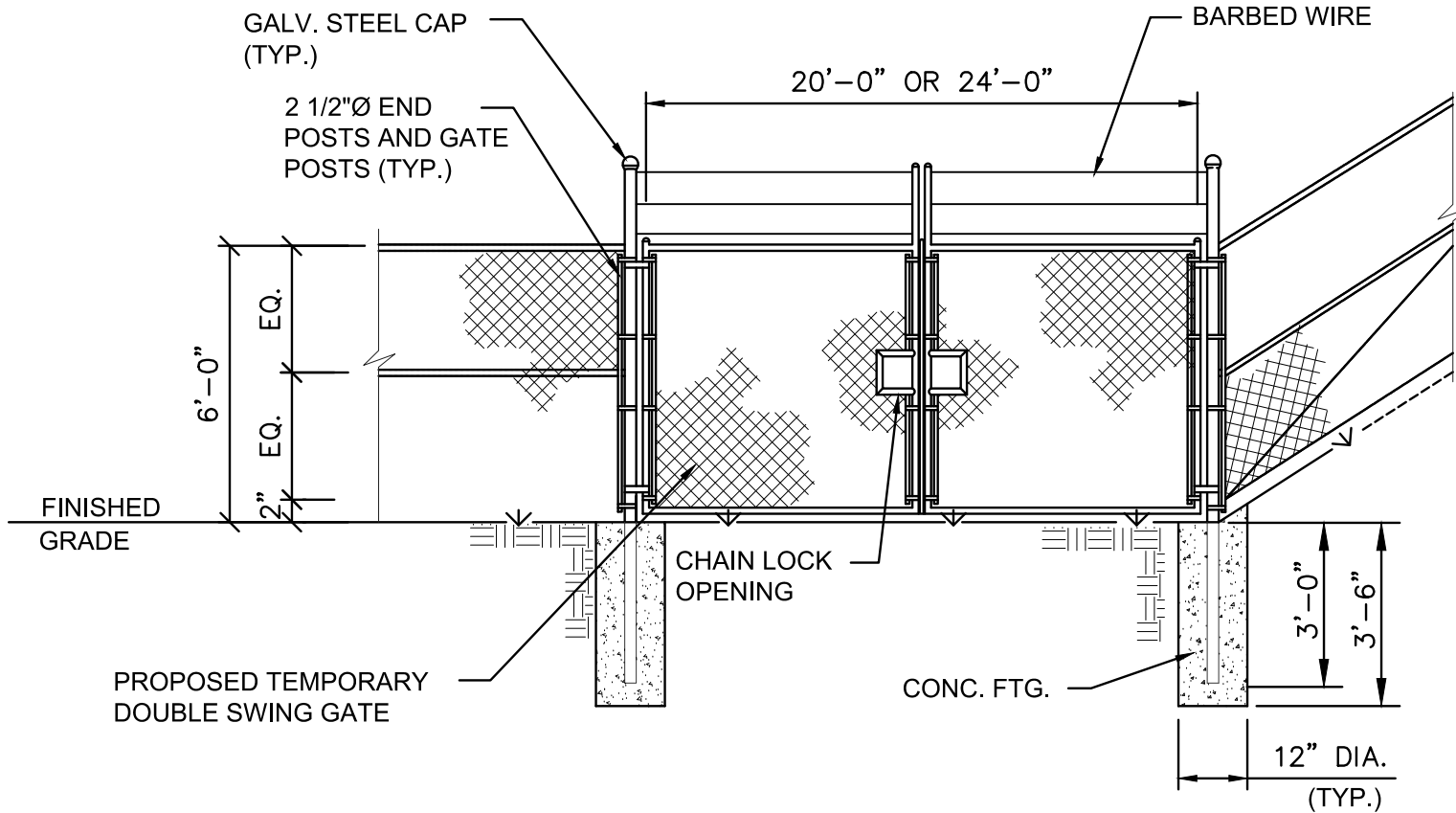
TYPE II BARRICADE DETAIL



BURROW OWL FENCING PROTECTION DETAIL



TEMPORARY SECURITY DOUBLE SWING GATE



ENGINEER: THOMAS F. O'DONNELL
DATE: 04-13-2019
DRAWN BY: ALB
DESIGNED BY: SCALE: AS NOTED
CHECKED BY: MM
TFO
FIELD BOOK: 33301
TEL: 561-840-0825
FAX:

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

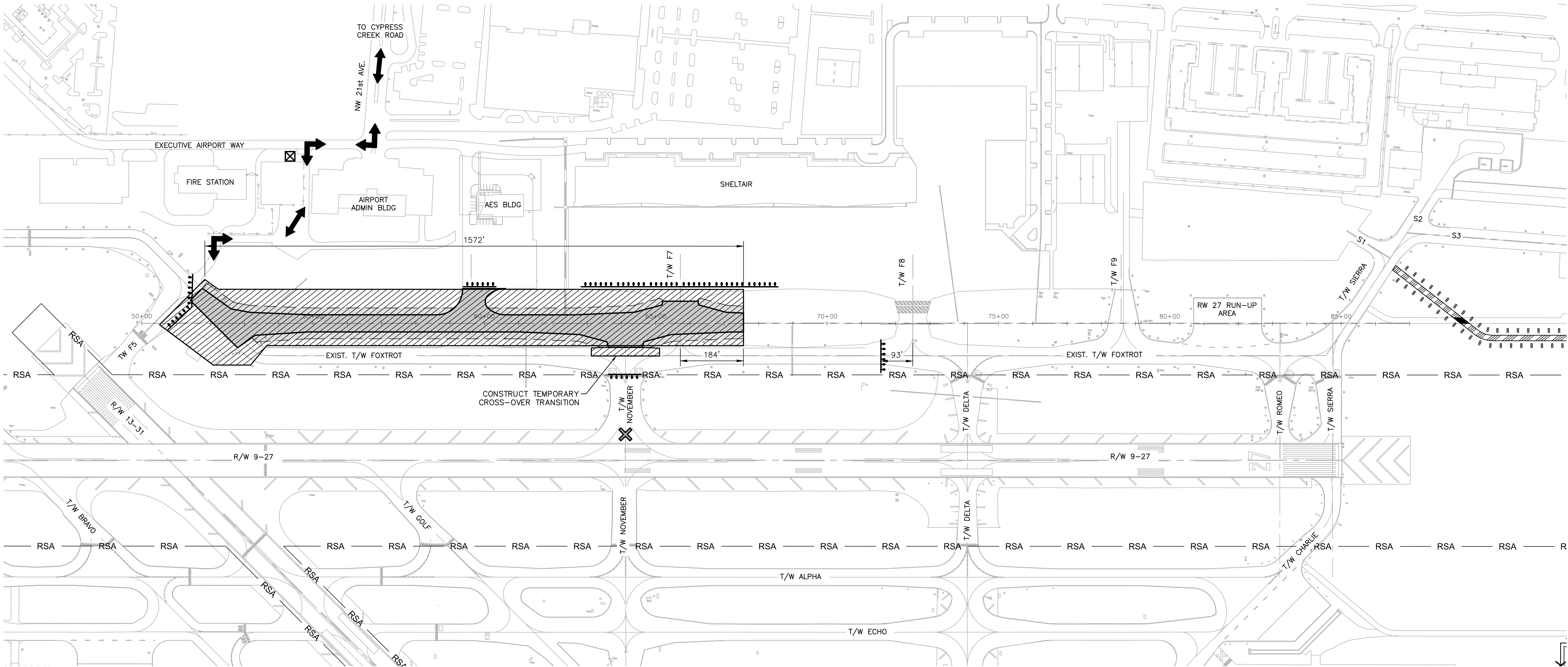
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12243
TAXIWAY FOX TROT
RELOCATION PROJECT
SAFETY NOTES AND DETAILS

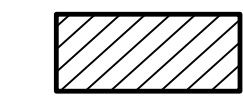
SHEET NO. OF
C05 70
TOTAL: 103
CAD FILE: 12243-C05-SAFE
DRAWING FILE NO. 4-141-45

BID SET

K:\FTL\AVIATION\044693068 - FXE FOX TROT RELOCATION\CADD\PLANSHEETS\12243-C07-PHASE1B.DWG



LEGEND



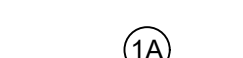
PHASE 1. AREA B



LOW LEVEL AIRFIELD BARRICADES - GROUP A - IN PLACE FOR DURATION OF PHASE



LOW LEVEL AIRFIELD BARRICADES - GROUP B - IN PLACE DURING WORKING HOURS



APPROXIMATE BARRICADE LOCATION BY PHASE NUMBER



TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05



TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05



RUNWAY SAFETY AREA



RELOCATED TAXIWAY F PAVEMENT SEE PAVEMENT GEOMETRY PLANS, SHEETS C38 TO C42



FLAG MAN



GUARD SHACK



ACCESS ARROWS



TEMPORARY ACCESS ROAD, SEE DETAIL SHEET C29

WORK AREA B DESCRIPTION

1. INSTALL BARRICADES AND TAXIWAY CLOSURE MARKERS.
2. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES.
3. PERFORM CLEARING AND GRUBBING.
4. MODIFY EXISTING DRAINAGE STRUCTURES.
5. REMOVE BITUMINOUS PAVEMENT AND PORTLAND CEMENT CONCRETE WITHIN LIMITS OF TAXIWAY F7.
6. MILL BITUMINOUS ASPHALT AT INTERSECTION WITH EXISTING TAXIWAY F
7. CONSTRUCT EMBANKMENT, SUBGRADE, SUBBASE, AND LIME ROCK BASE COURSES.
8. CONSTRUCT SHOULDERS.
9. CONSTRUCT CONCRETE UTILITY PROTECTION SLABS.
10. PERFORM ELECTRICAL DEMOLITION AND INSTALLATION WORK.
11. PAVE (P-401) ASPHALT.
12. APPLY TEMPORARY PAINT MARKING.
13. INSTALL TOPSOILING AND SODDING

WORK AREA B AIRCRAFT MOVEMENT

CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF EXISTING TAXIWAY F EAST OF TAXIWAY F5 AND WEST OF TAXIWAY F8, TAXIWAY N NORTH OF RUNWAY 9-27, TAXIWAY F7, NEW TAXIWAY F, AND THE AES AIRFIELD DRIVE. RUNWAY 9-27, RUNWAY 13-31, EXISTING TAXIWAY F (BEYOND THIS WORK AREA), TAXIWAYS F5, F8, F9, D, R, S AND S1, AND THE RUNWAY 27 RUNUP AREA ARE TO REMAIN OPEN. WORK WILL BE PERFORMED 8 HOURS PER DAY, SUNDAY THROUGH FRIDAY, 10:00 PM AND 6:00 AM. CONTRACTOR TO COORDINATE BARRICADE PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE.

PHASE 1

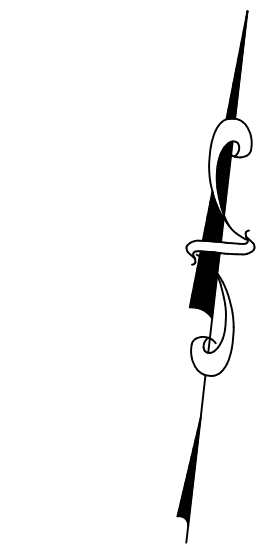
WORK AREA B

WORK AREA B LIMIT OF WORK

THE LIMITS OF THIS WORK AREA ARE THE AREA FROM 93' EAST OF TAXIWAY F5 TO 184' EAST OF TAXIWAY F7, AND NORTH OF THE RUNWAY 9-27 SAFETY AREA TO THE SHELTER APRON.

WORK AREA B SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER THE COMPLETION OF PHASE 1 WORK AREA A.



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PHONE: (561) 451-9165 FAX: (561) 451-4886

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ENGINEERING, INC.
23257 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33428
(561) 451-9165 PHONE
(561) 451-4886 FAX

ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62478
DATE:

DRAWN BY: ALB
DATE: 04-15-2019
DESIGNED BY: SCALE: AS NOTED
CHECKED BY: TFO
FIELD BOOK:

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

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12243
TAXIWAY FOX TROT
RELOCATION PROJECT
PHASING AND SAFETY PLAN - PHASE 1B

SHEET NO.

C07

OF

70

TOTAL:

103

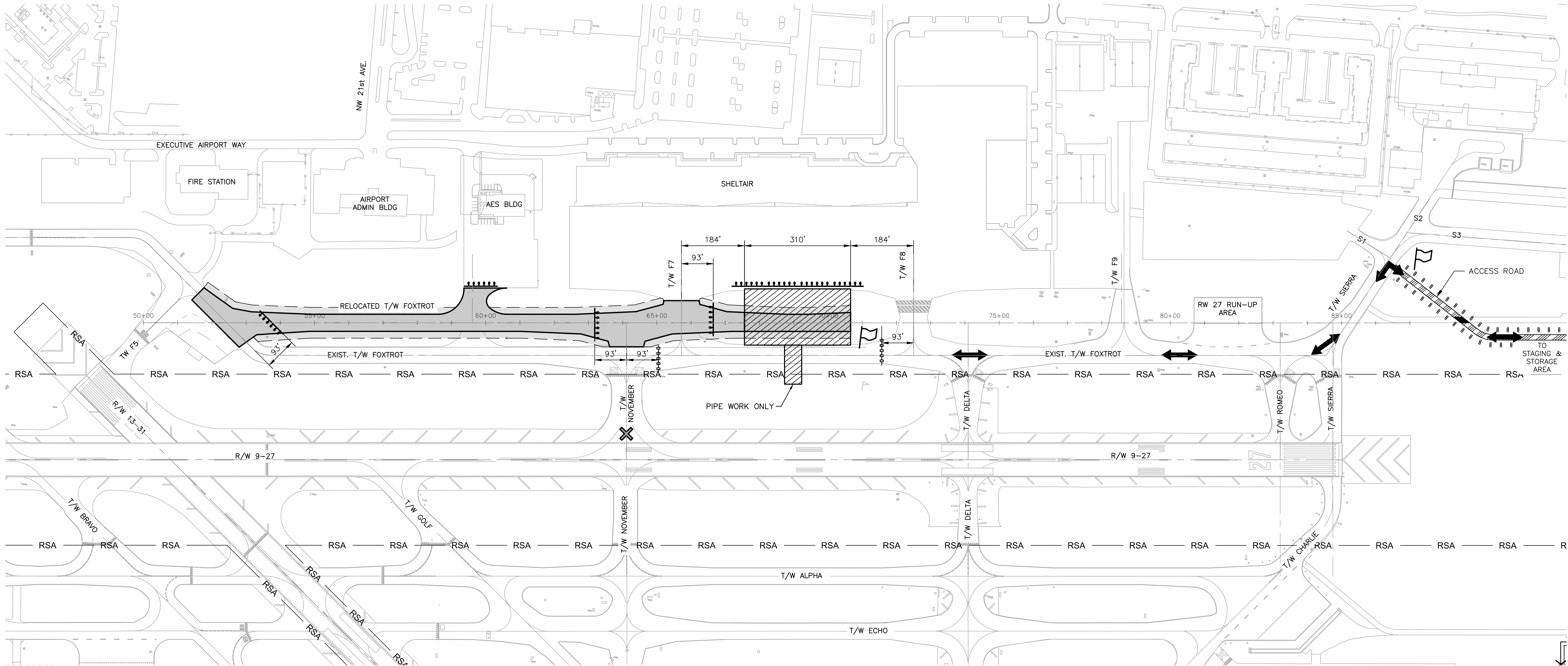
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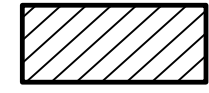
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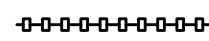
LEGEND



PHASE 1, AREA C



LOW LEVEL AIRFIELD BARRICADES - GROUP A - IN PLACE FOR DURATION OF PHASE



LOW LEVEL AIRFIELD BARRICADES - GROUP B - IN PLACE DURING WORKING HOURS

(1A)

APPROXIMATE BARRICADE LOCATION BY PHASE NUMBER



TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05



TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05

RUNWAY SAFETY AREA



RELOCATED TAXIWAY F PAVEMENT SEE PAVEMENT GEOMETRY PLANS, SHEETS C38 TO C42



FLAG MAN



GUARD SHACK



ACCESS ARROWS



TEMPORARY ACCESS ROAD, SEE DETAIL SHEET C29

PHASE 1

WORK AREA C

WORK AREA C DESCRIPTION

1. INSTALL BARRICADES.
2. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES.
3. PERFORM CLEARING AND GRUBBING.
4. MODIFY EXISTING DRAINAGE STRUCTURES.
5. CONSTRUCT EMBANKMENT, SUBGRADE, SUBBASE, AND LIME ROCK BASE COURSES.
6. CONSTRUCT SHOULDERS.
7. PERFORM ELECTRICAL INSTALLATION WORK.
8. PAVE (P-401) ASPHALT.
9. APPLY TEMPORARY PAINT MARKING.
10. INSTALL TOPSOILING AND SODDING

WORK AREA C AIRCRAFT MOVEMENT

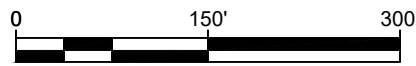
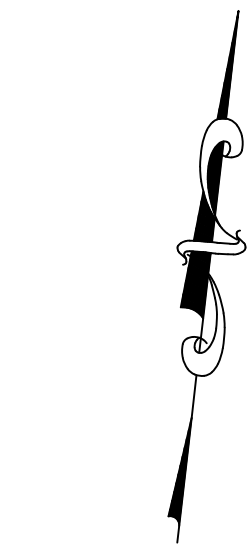
CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF EXISTING TAXIWAY F EAST OF TAXIWAY F7 AND WEST OF TAXIWAY F8, NEW TAXIWAY F, AND THE AES AIRFIELD DRIVE. RUNWAY 9-27, RUNWAY 13-31, EXISTING TAXIWAY F (BEYOND THIS WORK AREA), TAXIWAYS F5, F7, F8, F9, N, D, R, S, AND S1, AND THE RUNWAY 27 RUNUP AREA ARE TO REMAIN OPEN. WORK WILL BE PERFORMED 8 HOURS PER DAY, SUNDAY THROUGH FRIDAY, 10:00 PM AND 6:00 AM. EXISTING TAXIWAY F WILL BE FULLY OPENED BETWEEN 6:00 AM AND 10:00 PM MONDAY THROUGH THURSDAY AND 6:00 AM FRIDAY TO 10:00 PM SUNDAY. CONTRACTOR TO COORDINATE BARRICADE PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE.

WORK AREA C LIMIT OF WORK

THE LIMITS OF THIS WORK AREA ARE THE AREA FROM 184' EAST OF TAXIWAY F7 TO 184' WEST OF TAXIWAY F8, AND FROM THE RUNWAY 9-27 SAFETY AREA TO THE SHELTAIR APRON.

WORK AREA C SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER THE COMPLETION OF PHASE 1 WORK AREA B. PAVING AND PAINT MARKING TASKS WILL BE PERFORMED CONCURRENTLY WITH PHASE 1 WORK AREA D. INSTALLATION OF 36" PIPE, ITS STRUCTURES, AND PAVEMENT REPAIR TO BE PERFORMED FIRST AND IN ONE NIGHT.



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ENGINEER:
THOMAS F. O'DONNELL

PROJ. NO.: 62476

DATE:

DRAWN BY:

DATE:

DESIGNED BY:

SCALE:

AS NOTED

CHECKED BY:

TFO

FIELD BOOK:

CITY OF FORT LAUDERDALE

PUBLIC WORKS DEPARTMENT

ENGINEERING & ARCHITECTURE



100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.

DATE

BY

CHK'D

DESCRIPTION

PROJECT # 12243
TAXIWAY FOX TROT
RELOCATION PROJECT
PHASING AND SAFETY PLAN - PHASE 1C

SHEET NO.

C08

OF

70

TOTAL:

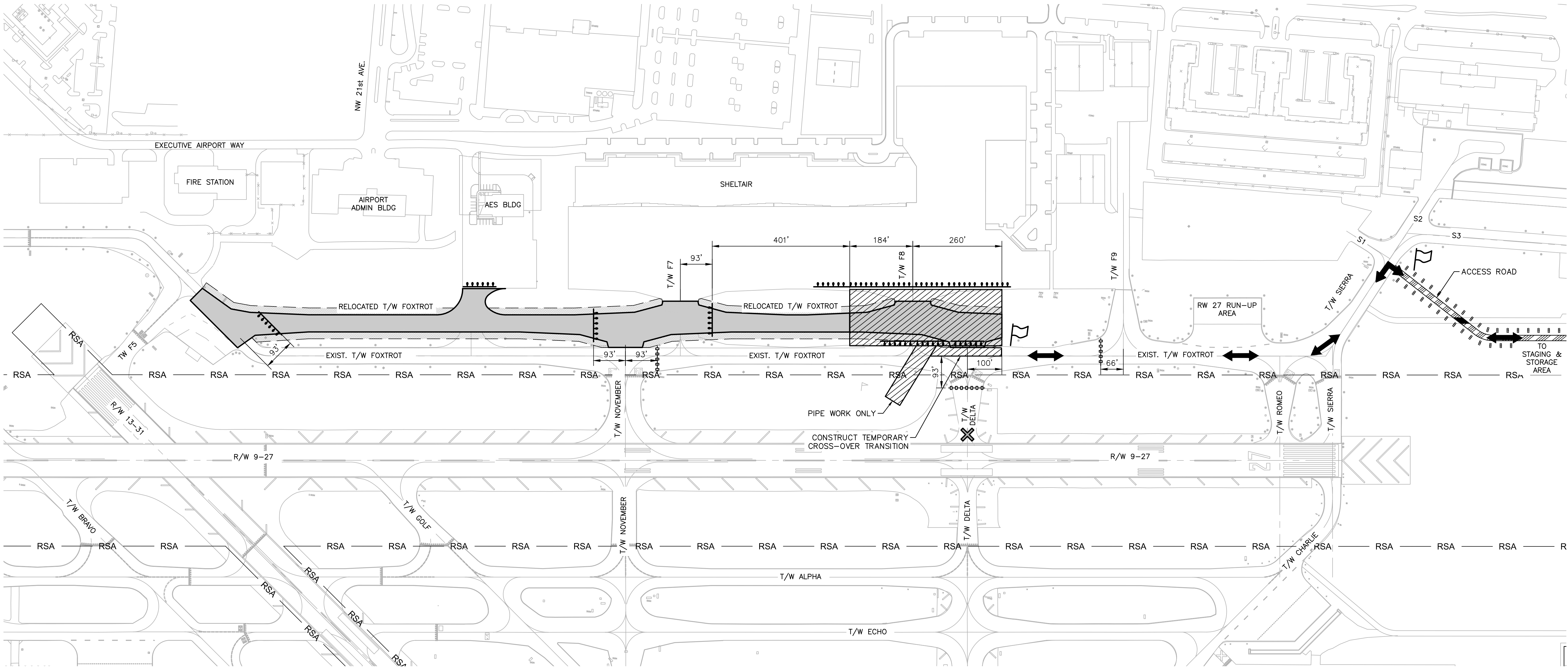
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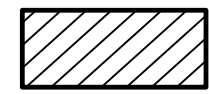
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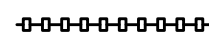
LEGEND



PHASE 1, AREA D



LOW LEVEL AIRFIELD BARRICADES - GROUP A - IN PLACE FOR DURATION OF PHASE



LOW LEVEL AIRFIELD BARRICADES - GROUP B - IN PLACE DURING WORKING HOURS

(1A)

APPROXIMATE BARRICADE LOCATION BY PHASE NUMBER



TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05



TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05

RUNWAY SAFETY AREA



RELOCATED TAXIWAY F PAVEMENT SEE PAVEMENT GEOMETRY PLANS, SHEETS C38 TO C42



FLAG MAN



GUARD SHACK



ACCESS ARROWS



TEMPORARY ACCESS ROAD, SEE DETAIL SHEET C29

PHASE 1

WORK AREA D

WORK AREA D DESCRIPTION

1. INSTALL BARRICADES.
2. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES.
3. PERFORM CLEARING AND GRUBBING.
4. MODIFY EXISTING DRAINAGE STRUCTURES.
5. REMOVE BITUMINOUS PAVEMENT AND PORTLAND CEMENT CONCRETE WITHIN LIMITS OF TAXIWAY F8.
6. CONSTRUCT EMBANKMENT, SUBGRADE, SUBBASE, AND LIME ROCK BASE COURSES.
7. CONSTRUCT SHOULDERS.
8. CONSTRUCT CONCRETE UTILITY PROTECTION SLABS.
9. PERFORM ELECTRICAL DEMOLITION AND INSTALLATION WORK.
10. PAVE (P-401) ASPHALT.
11. APPLY TEMPORARY PAINT MARKING.
12. INSTALL TOPSOILING AND SODDING

WORK AREA D AIRCRAFT MOVEMENT

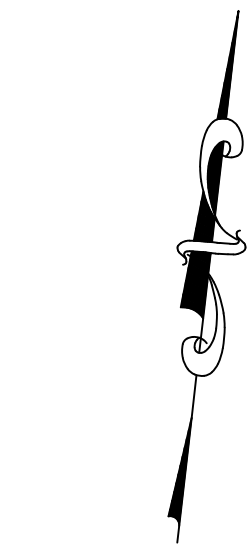
CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF EXISTING TAXIWAY F EAST OF TAXIWAY F7 AND WEST OF TAXIWAY F9, NEW TAXIWAY F, TAXIWAY D NORTH OF RUNWAY 9-27, TAXIWAY F8, AND THE AES AIRFIELD DRIVE. RUNWAY 9-27, RUNWAY 13-31, EXISTING TAXIWAY F (BEYOND THIS WORK AREA), TAXIWAYS F5, F7, F9, N, R, S, AND S1, AND THE RUNWAY 27 RUNUP AREA ARE TO REMAIN OPEN. WORK WILL BE PERFORMED 8 HOURS PER DAY, SUNDAY THROUGH FRIDAY, 10:00 PM AND 6:00 AM. EXISTING TAXIWAY F AND TAXIWAY D WILL BE FULLY OPENED BETWEEN 6:00 AM AND 10:00 PM MONDAY THROUGH THURSDAY AND 6:00 AM FRIDAY TO 10:00 PM SUNDAY. CONTRACTOR TO COORDINATE BARRICADE PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE.

WORK AREA D LIMIT OF WORK

THE LIMITS OF THIS WORK AREA ARE THE AREA FROM 401' EAST OF TAXIWAY F7 TO 100' EAST OF TAXIWAY D, AND FROM THE RUNWAY 9-27 SAFETY AREA TO THE SHELTAIR APRON.

WORK AREA D SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED CONCURRENTLY WITH PHASE 1 WORK AREA C, AFTER THE COMPLETION OF WORK AREA C'S EARTHWORK (INCLUDING THE BUT NOT LIMITED TO THE INSTALLATION OF BASE AND SHOULDERS). PAVING AND PAINT MARKING TASKS WILL BE PERFORMED CONCURRENTLY WITH PHASE 1 WORK AREA C. INSTALLATION OF 24" PIPE, ITS DRAINAGE STRUCTURES, AND PAVEMENT REPAIR TO BE PERFORMED FIRST AND IN ONE NIGHT.



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ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 062476
DATE:

DRAWN BY:
ALB
DESIGNED BY:
MM
CHECKED BY:
TFO
FIELD BOOK:

DATE:
04-15-2019
SCALE:
AS NOTED

TEL. 561-840-0825
FAX:

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

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12243
TAXIWAY FOX TROT
RELOCATION PROJECT
PHASING AND SAFETY PLAN - PHASE 1D

SHEET NO. OF
C09 70

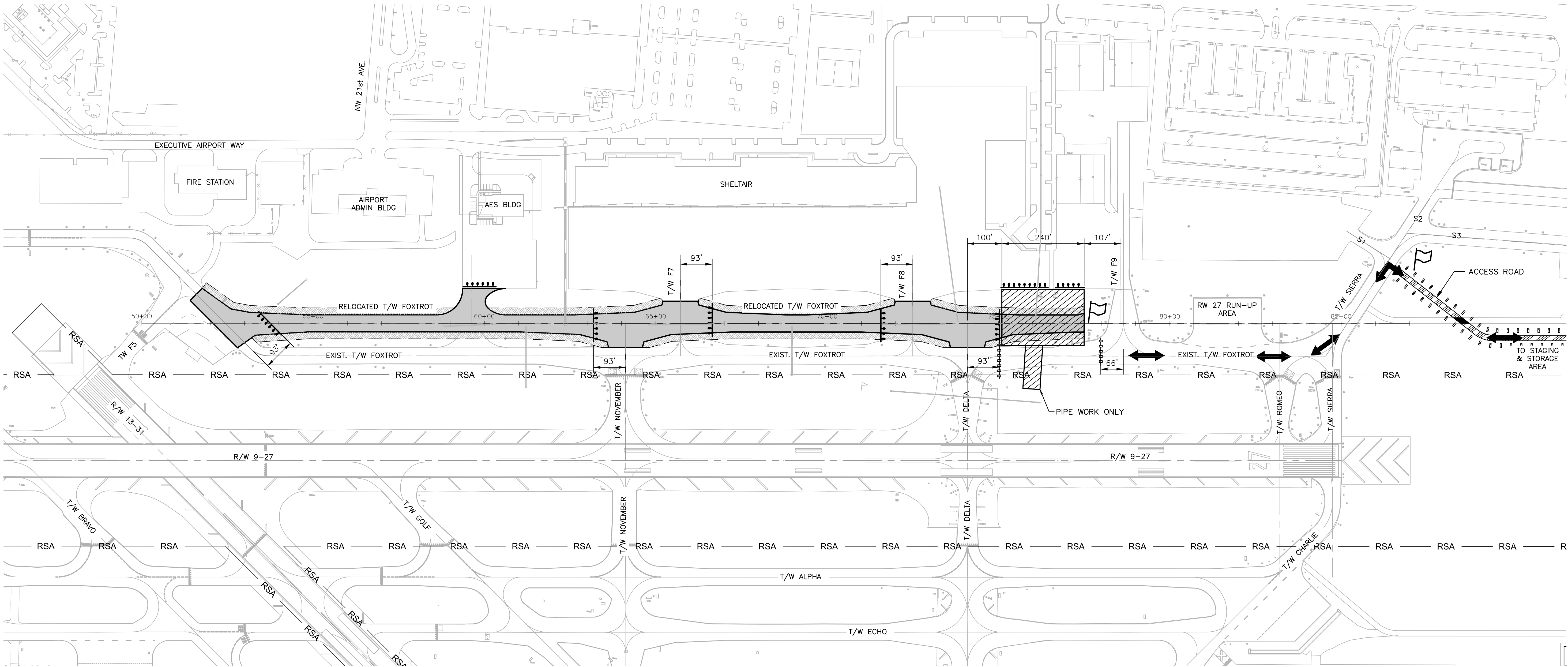
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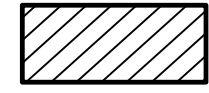
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Exhibit 3B - Part 2 of 4
Page 26 of 37

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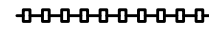
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PHASE 1. AREA E



LOW LEVEL AIRFIELD BARRICADES - GROUP A - IN PLACE FOR DURATION OF PHASE



LOW LEVEL AIRFIELD BARRICADES - GROUP B - IN PLACE DURING WORKING HOURS

(1A)

APPROXIMATE BARRICADE LOCATION BY PHASE NUMBER



TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05



TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05

RUNWAY SAFETY AREA



RELOCATED TAXIWAY F PAVEMENT SEE PAVEMENT GEOMETRY PLANS, SHEETS C38 TO C42



FLAG MAN



GUARD SHACK



ACCESS ARROWS



TEMPORARY ACCESS ROAD, SEE DETAIL SHEET C29

PHASE 1

WORK AREA E

WORK AREA E DESCRIPTION

1. INSTALL BARRICADES.
2. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES.
3. PERFORM CLEARING AND GRUBBING.
4. MODIFY EXISTING DRAINAGE STRUCTURES.
5. CONSTRUCT EMBANKMENT, SUBGRADE, SUBBASE, AND LIME ROCK BASE COURSES.
6. CONSTRUCT SHOULDERS.
7. PERFORM ELECTRICAL INSTALLATION WORK.
8. PAVE (P-401) ASPHALT.
9. APPLY TEMPORARY PAINT MARKING.
10. INSTALL TOPSOILING AND SODDING.

WORK AREA E AIRCRAFT MOVEMENT

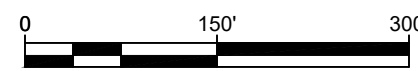
CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF EXISTING TAXIWAY F EAST OF TAXIWAY D AND WEST OF TAXIWAY F9, NEW TAXIWAY F, AND THE AES AIRFIELD DRIVE. RUNWAY 9-27, RUNWAY 13-31, EXISTING TAXIWAY F (BEYOND THIS WORK AREA), TAXIWAYS F5, F7, F8, F9, N, D, R, S, AND S1, AND THE RUNWAY 27 RUNUP AREA ARE TO REMAIN OPEN. WORK WILL BE PERFORMED 8 HOURS PER DAY, SUNDAY THROUGH FRIDAY, 10:00 PM AND 6:00 AM. EXISTING TAXIWAY F WILL BE FULLY OPENED BETWEEN 6:00 AM AND 10:00 PM MONDAY THROUGH THURSDAY AND 6:00 AM FRIDAY TO 10:00 PM SUNDAY. CONTRACTOR TO COORDINATE BARRICADE PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE.

WORK AREA E LIMIT OF WORK

THE LIMITS OF THIS WORK AREA ARE THE AREA FROM 100' EAST OF TAXIWAY D TO 107' WEST OF TAXIWAY F9, AND FROM THE RUNWAY 9-27 SAFETY AREA TO THE SHELTAIR AND LYNX APRON.

WORK AREA E SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER THE COMPLETION OF PHASE 1 WORK AREA D. PAVING AND PAINT MARKING TASKS WILL BE PERFORMED CONCURRENTLY WITH PHASE 1 WORK AREA F. INSTALLATION OF 24" PIPE, ITS DRAINAGE STRUCTURES, AND PAVEMENT REPAIR TO BE PERFORMED FIRST AND IN ONE NIGHT.



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3019 KIMLEY-HORN AND ASSOCIATES, INC.
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23257 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33428
(561) 451-9165 PHONE
(561) 451-4886 FAX

ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62476
DATE:

DRAWN BY:
ALB
04-15-2019

DESIGNED BY:
MM
AS NOTED

CHECKED BY:
TFO
FIELD BOOK:

TEL: 561-840-0825
FAX:

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

REVISIONS

NO. DATE BY CH'D DESCRIPTION

PROJECT # 12243
TAXIWAY FOX TROT
RELOCATION PROJECT
PHASING AND SAFETY PLAN - PHASE 1E

SHEET NO.

OF

C10

70

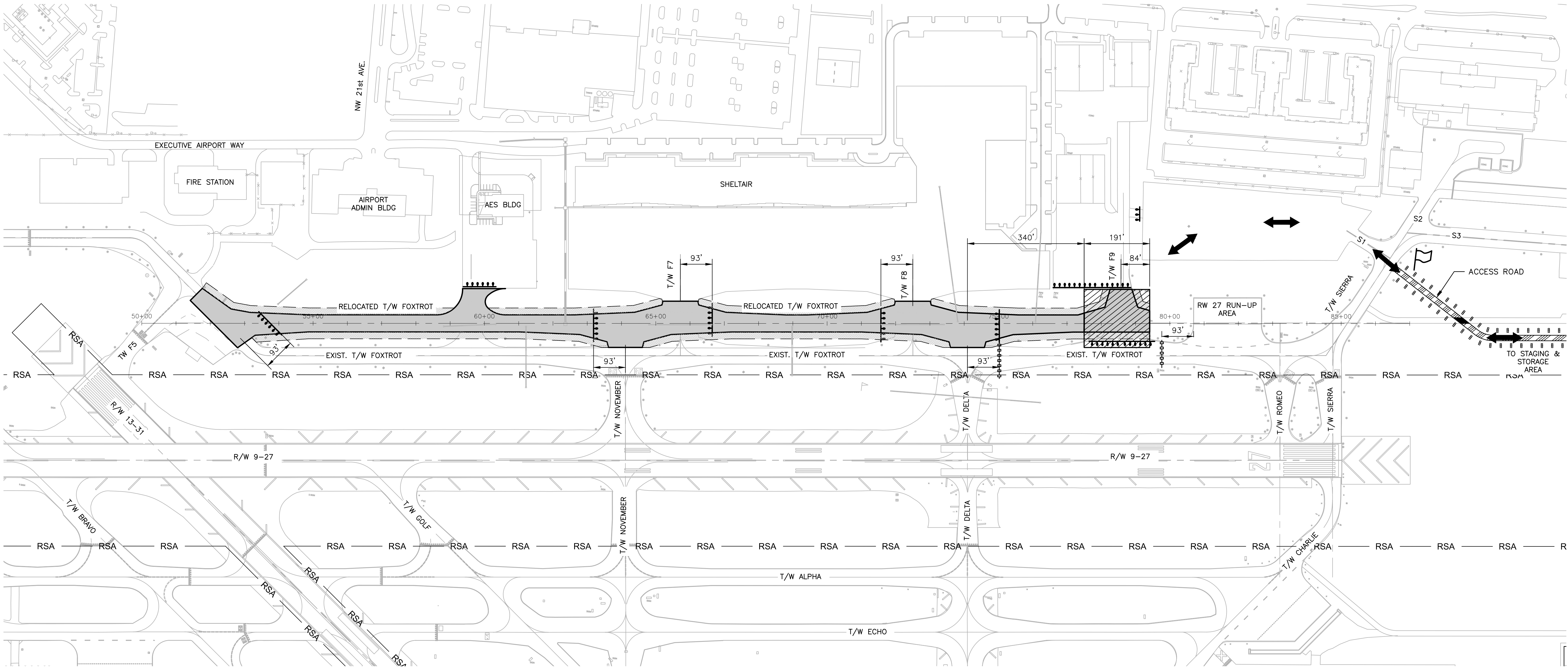
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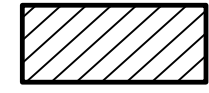
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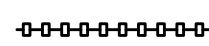
LEGEND



PHASE 1, AREA F



LOW LEVEL AIRFIELD BARRICADES - GROUP A - IN PLACE FOR DURATION OF PHASE



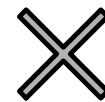
LOW LEVEL AIRFIELD BARRICADES - GROUP B - IN PLACE DURING WORKING HOURS

(1A)

APPROXIMATE BARRICADE LOCATION BY PHASE NUMBER



TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05



TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05

RUNWAY SAFETY AREA



RELOCATED TAXIWAY F PAVEMENT SEE PAVEMENT GEOMETRY PLANS, SHEETS C38 TO C42



FLAG MAN



GUARD SHACK



ACCESS ARROWS



TEMPORARY ACCESS ROAD, SEE DETAIL SHEET C29

PHASE 1

WORK AREA F

WORK AREA F DESCRIPTION

1. INSTALL BARRICADES.
2. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES.
3. PERFORM CLEARING AND GRUBBING.
4. MODIFY EXISTING DRAINAGE STRUCTURES.
5. REMOVE BITUMINOUS PAVEMENT WITHIN LIMITS OF TAXIWAY F9.
6. PERFORM EXCAVATION OF DRAINAGE AREA
7. CONSTRUCT EMBANKMENT, SUBGRADE, SUBBASE, AND LIME ROCK BASE COURSES.
8. CONSTRUCT SHOULDERS.
9. CONSTRUCT CONCRETE UTILITY PROTECTION SLABS.
10. PERFORM ELECTRICAL DEMOLITION AND INSTALLATION WORK.
11. PAVE (P-401) ASPHALT.
12. APPLY TEMPORARY PAINT MARKING.
13. INSTALL TOPSOILING AND SODDING.

WORK AREA F AIRCRAFT MOVEMENT

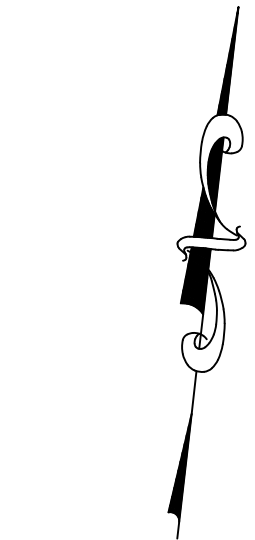
CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF EXISTING TAXIWAY F EAST OF TAXIWAY D AND WEST OF THE RUNWAY 27 RUNUP AREA, NEW TAXIWAY F, TAXIWAY F9, AND THE AES AIRFIELD DRIVE. RUNWAY 9-27, RUNWAY 13-31, EXISTING TAXIWAY F (BEYOND THIS WORK AREA), TAXIWAYS F5, F7, F8, N, D, R, S, AND S1, AND THE RUNWAY 27 RUNUP AREA ARE TO REMAIN OPEN. WORK WILL BE PERFORMED 8 HOURS PER DAY, SUNDAY THROUGH FRIDAY, 10:00 PM AND 6:00 AM. EXISTING TAXIWAY F WILL BE FULLY OPENED BETWEEN 6:00 AM AND 10:00 PM MONDAY THROUGH THURSDAY AND 6:00 AM FRIDAY TO 10:00 PM SUNDAY. CONTRACTOR TO COORDINATE BARRICADE PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE.

WORK AREA F LIMIT OF WORK

THE LIMITS OF THIS WORK AREA WILL BE PERFORMED CONCURRENTLY WITH PHASE 1 WORK AREA E, AFTER THE COMPLETION OF WORK AREA E'S EARTHWORK (INCLUDING THE BUT NOT LIMITED TO THE INSTALLATION OF BASE AND SHOULDERS), PAVING AND PAINT MARKING TASKS WILL BE PERFORMED CONCURRENTLY WITH PHASE 1 WORK AREA E.

WORK AREA F SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED CONCURRENTLY WITH PHASE 1 WORK AREA E, AFTER THE COMPLETION OF WORK AREA E'S EARTHWORK (INCLUDING THE BUT NOT LIMITED TO THE INSTALLATION OF BASE AND SHOULDERS), PAVING AND PAINT MARKING TASKS WILL BE PERFORMED CONCURRENTLY WITH PHASE 1 WORK AREA E.



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ENGINEERING, INC.
23257 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33428
(561) 451-9165 PHONE
(561) 451-4886 FAX

ENGINEER:
THOMAS F. O'DONNELL

DATE: 04-15-2019

DESIGNED BY: ALB

CHECKED BY: MM

AS NOTED

TFO

FIELD BOOK:

CITY OF FORT LAUDERDALE

PUBLIC WORKS DEPARTMENT

ENGINEERING & ARCHITECTURE



100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO. DATE BY CHK'D DESCRIPTION

PROJECT # 12243
TAXIWAY FOX TROT
RELOCATION PROJECT
PHASING AND SAFETY PLAN - PHASE 1F

SHEET NO.

C11

OF

70

TOTAL:

103

CAD FILE:

12243-C11-PHAS1F

DRAWING FILE NO.

4-141-45

BID SET

1A

11/11/2019

☒

1. INSTALL BARRICADES.
2. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES.
3. REMOVE BITUMINOUS PAVEMENT AS REQUIRED WITHIN LIMITS OF WORK.
4. PERFORM CLEARING AND GRUBBING.
5. PERFORM EXCAVATION OF DRAINAGE AREA
6. MODIFY AIR RELEASE VALVES AND STRUCTURES.
7. CONSTRUCT EMBANKMENT, SUBGRADE, SUBBASE, AND LIME ROCK BASE COURSES.
8. CONSTRUCT SHOULDERS.
9. CONSTRUCT TEMPORARY BYPASS TAXIWAY S1.
10. CONSTRUCT FOUNDATION AND BLAST DEFLECTOR.
11. CONSTRUCT CONCRETE UTILITY PROTECTION SLABS.
12. PERFORM ELECTRICAL INSTALLATION AND DEMOLITION WORK.
13. PAVE (P-401) ASPHALT.
14. APPLY TEMPORARY PAINT MARKING.
15. INSTALL TOPSOILING AND SODDING

A horizontal graphic scale bar with tick marks at 0, 150, and 300 feet. The bar is divided into alternating black and white segments.



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FBPE No. CA 00000695
04/00/2008

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ENGINEERING, INC.**
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(561) 451-9165 PHONE
(561) 451-4886 FAX

BID SET

PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
PHASING AND SAFETY PLAN - PHASE 1G

SHEET NO.	OF
C12	70
TOTAL:	103
CAD FILE: 12243-C12-PHAS1G	
DRAWING FILE NO. 4-141-45	

ENGINEER:
THOMAS F. O'DONNELL
REG. No: 62478

DRAWN BY: ALB	DATE: 04-15-2019
DESIGNED BY: MM	SCALE: AS NOTED
CHECKED BY: TFO	
FIELD BOOK:	

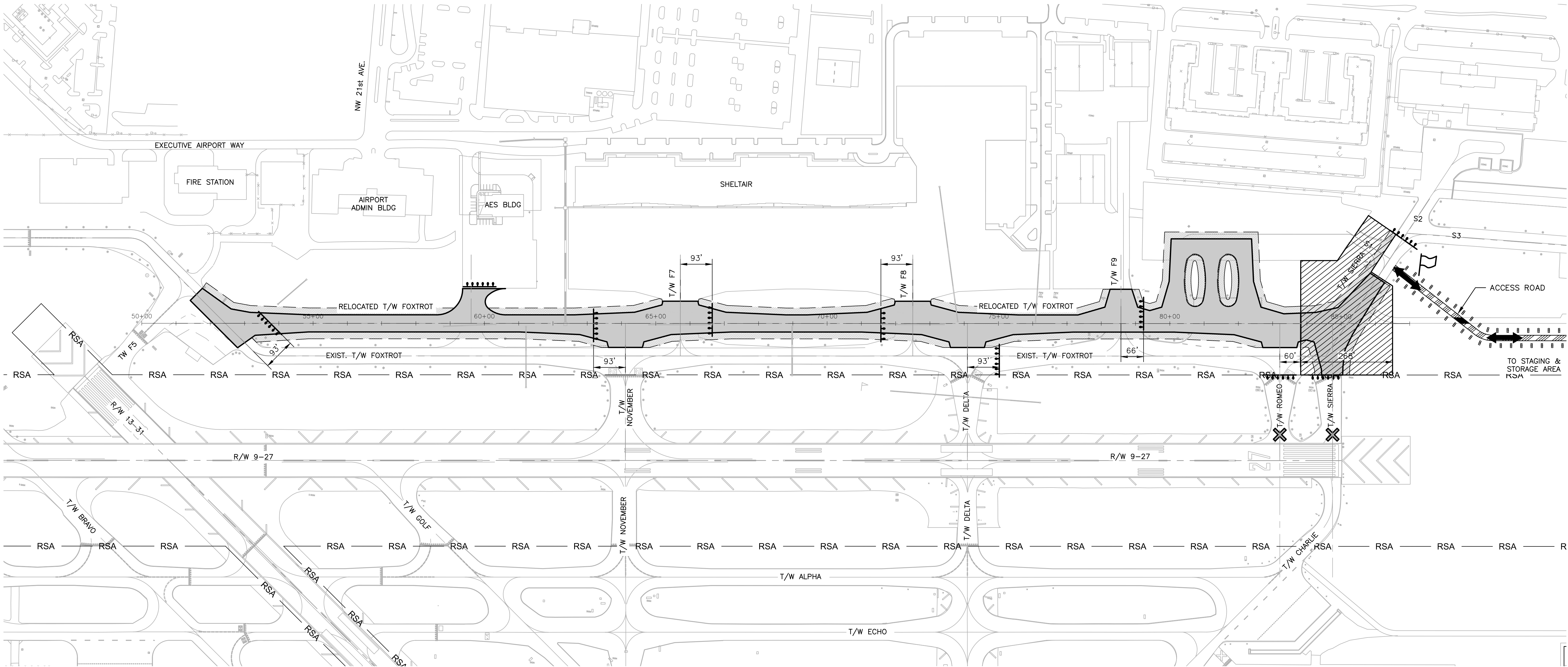
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE



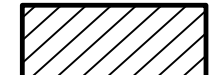
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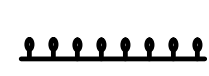
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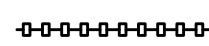
LEGEND



PHASE 1. AREA H



LOW LEVEL AIRFIELD BARRICADES - GROUP A - IN PLACE FOR DURATION OF PHASE



LOW LEVEL AIRFIELD BARRICADES - GROUP B - IN PLACE DURING WORKING HOURS

(1A)

APPROXIMATE BARRICADE LOCATION BY PHASE NUMBER



TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05



TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05

RUNWAY SAFETY AREA



RELOCATED TAXIWAY F PAVEMENT SEE PAVEMENT GEOMETRY PLANS, SHEETS C38 TO C42



FLAG MAN



GUARD SHACK



ACCESS ARROWS



TEMPORARY ACCESS ROAD, SEE DETAIL SHEET C29

PHASE 1

WORK AREA H

WORK AREA H DESCRIPTION

1. INSTALL BARRICADES.
2. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES.
3. REMOVE BITUMINOUS PAVEMENT AS REQUIRED WITHIN LIMITS OF WORK.
4. PERFORM CLEARING AND GRUBBING.
5. MILL BITUMINOUS ASPHALT AT INTERSECTION WITH TAXIWAY S.
6. PERFORM EXCAVATION OF DRAINAGE AREA
7. CONSTRUCT EMBANKMENT, SUBGRADE, SUBBASE, AND LIME ROCK BASE COURSES.
8. CONSTRUCT SHOULDERS.
9. PERFORM ELECTRICAL INSTALLATION AND DEMOLITION WORK.
10. PAVE (P-401) ASPHALT.
11. APPLY TEMPORARY PAINT MARKING.
12. INSTALL TOPSOILING AND SODDING

WORK AREA H AIRCRAFT MOVEMENT

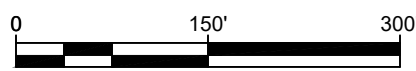
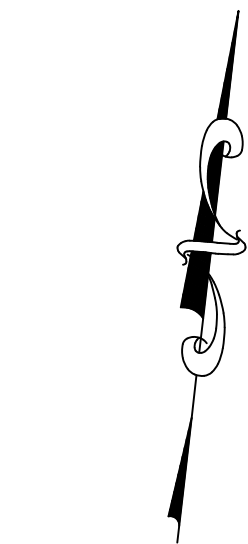
CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF EXISTING TAXIWAY F EAST OF TAXIWAY D, NEW TAXIWAY F, TAXIWAY R, TAXIWAY S NORTH OF RUNWAY 27 AND SOUTH OF TAXIWAY S1, THE MIDDLE AND EASTERN BAYS OF THE RUNWAY 27 RUNUP AREA, AND THE AES AIRFIELD DRIVE, RUNWAY 9-27, RUNWAY 13-31, EXISTING TAXIWAY F (BEYOND THIS WORK AREA), TAXIWAYS F5, F7, F8, F9 N, D, S1 AND THE WESTERN BAY OF THE RUNWAY 27 RUNUP AREA ARE TO REMAIN OPEN. WORK WILL BE PERFORMED 8 HOURS PER DAY, SUNDAY THROUGH FRIDAY, 10:00 PM AND 6:00 AM. CONTRACTOR TO COORDINATE BARRICADE PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE.

WORK AREA H LIMIT OF WORK

THE LIMITS OF THIS WORK AREA ARE THE AREA FROM 66' EAST OF TAXIWAY R AND FROM THE RUNWAY 9-27 SAFETY AREA TO 60' SOUTH OF TAXIWAY S1.

WORK AREA H SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER THE COMPLETION OF PHASE 1 WORK AREA G.



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23257 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33428
(561) 451-9165 PHONE
(561) 451-4886 FAX

ENGINEER:
THOMAS F. O'DONNELL

PROJ. NO.: 62476

DATE:

DRAWN BY: ALB

DATE: 04-15-2019

DESIGNED BY: SCALE:

MM AS NOTED

CHECKED BY: TFO

FIELD BOOK:

City of Fort Lauderdale

CITY OF FORT LAUDERDALE

PUBLIC WORKS DEPARTMENT

ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO. DATE BY CH'D DESCRIPTION

PROJECT # 12243
TAXIWAY FOXROT
RELOCATION PROJECT
PHASING AND SAFETY PLAN - PHASE 1H

SHEET NO.

OF

C13 70

TOTAL:

103

CAD FILE:

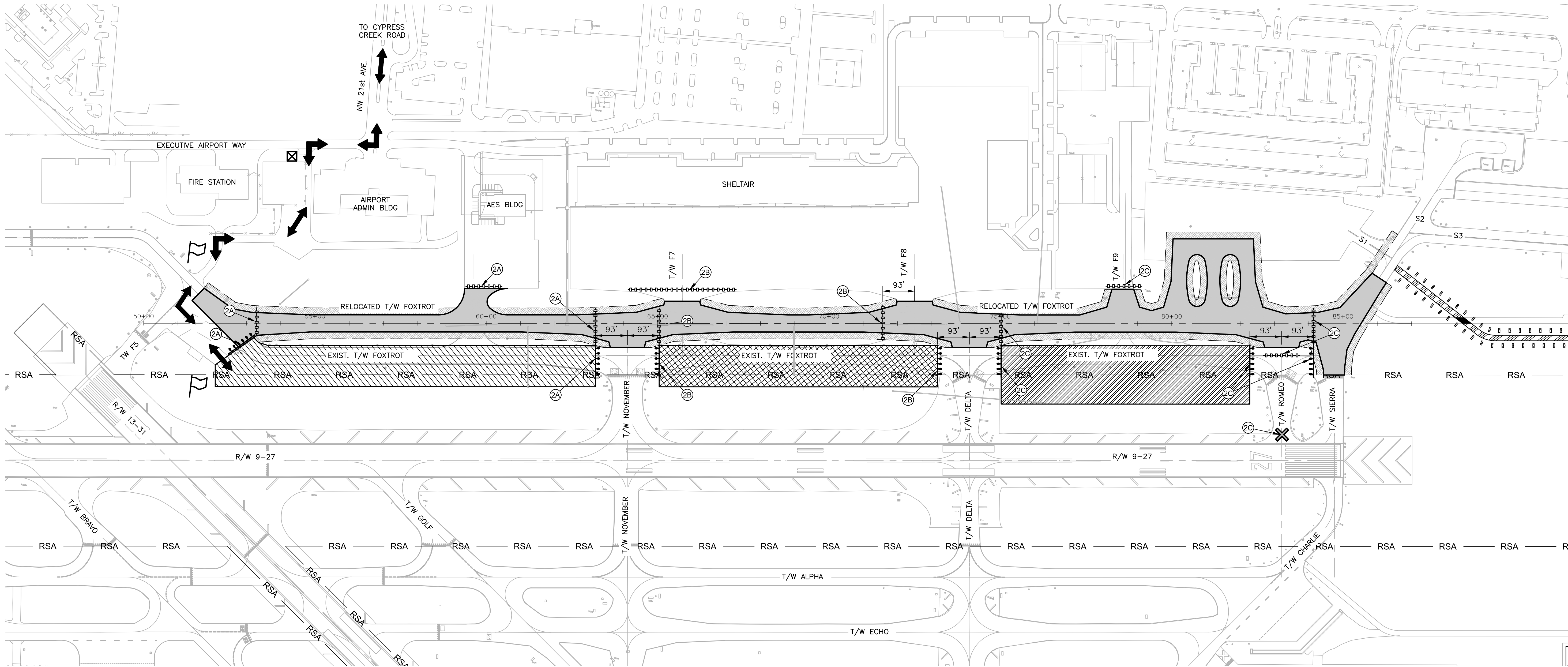
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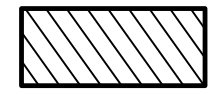
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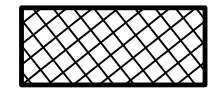
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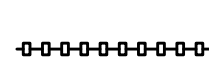
LEGEND


- 


PHASE 2 AREA A
- 


PHASE 2 AREA B
- 

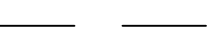
PHASE 2 AREA C
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LOW LEVEL AIRFIELD BARRICADES - GROUP A - IN PLACE FOR DURATION OF PHASE
- 


LOW LEVEL AIRFIELD BARRICADES - GROUP B - IN PLACE DURING WORKING HOURS
- 


APPROXIMATE BARRICADE LOCATION BY PHASE NUMBER
- 


TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05
- 


TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05
- 

RUNWAY SAFETY AREA
- 

RELOCATED TAXIWAY F PAVEMENT SEE PAVEMENT GEOMETRY PLANS, SHEETS C38 TO C42
- 

FLAG MAN
- 

GUARD SHACK
- 

ACCESS ARROWS
- 

TEMPORARY ACCESS ROAD, SEE DETAIL SHEET C29

WORK AREA A DESCRIPTION

1. INSTALL BARRICADES.
2. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES.
3. REMOVE BITUMINOUS PAVEMENT AS REQUIRED WITHIN LIMITS OF WORK.
4. DEMOLISH TEMPORARY TAXIWAY S1.
5. PERFORM CLEARING AND GRUBBING.
6. PERFORM EXCAVATION OF DRAINAGE AREA.
7. MODIFY EXISTING DRAINAGE STRUCTURES.
8. PERFORM ELECTRICAL DEMOLITION WORK.
9. INSTALL TOPSOILING AND SODDING

WORK AREA B DESCRIPTION

1. INSTALL BARRICADES.
2. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES.
3. REMOVE BITUMINOUS PAVEMENT AS REQUIRED WITHIN LIMITS OF WORK.
4. PERFORM CLEARING AND GRUBBING.
5. PERFORM EXCAVATION OF DRAINAGE AREA.
6. MODIFY EXISTING DRAINAGE STRUCTURES.
7. PERFORM ELECTRICAL DEMOLITION WORK.
8. INSTALL TOPSOILING AND SODDING

WORK AREA C DESCRIPTION

1. INSTALL BARRICADES.
2. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES.
3. REMOVE BITUMINOUS PAVEMENT AS REQUIRED WITHIN LIMITS OF WORK.
4. PERFORM CLEARING AND GRUBBING.
5. PERFORM EXCAVATION OF DRAINAGE AREA.
6. MODIFY EXISTING DRAINAGE STRUCTURES.
7. PERFORM ELECTRICAL DEMOLITION WORK.
8. INSTALL TOPSOILING AND SODDING

PHASE 2

WORK AREA A

WORK AREA A AIRCRAFT MOVEMENT

CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF EXISTING TAXIWAY F EAST OF THE RUNWAY 13 RUNUP AREA AND WEST OF TAXIWAY N, NEW TAXIWAY F EAST OF THE RUNWAY 13 RUNUP AREA AND WEST OF TAXIWAY N, TAXIWAY S NORTH OF NEW TAXIWAY F, TAXIWAY S1, THE EASTERN BAY OF THE RUNWAY 27 RUNUP AREA, AND THE AES AIRFIELD DRIVE, RUNWAY 9-27, RUNWAY 13-31, NEW TAXIWAY F (BEYOND THIS WORK AREA), TAXIWAYS F5, F7, F8, F9 N, D, R, AND S (AFTER DEMOLITION OF TEMPORARY TAXIWAY S1), AND THE WESTERN AND MIDDLE BAYS OF THE RUNWAY 27 RUNUP AREA ARE TO REMAIN OPEN. WORK WILL BE PERFORMED 8 HOURS PER DAY, SUNDAY THROUGH FRIDAY, 10:00 PM AND 6:00 AM. NEW TAXIWAY F WILL BE FULLY OPENED BETWEEN 6:00 AM AND 10:00 PM MONDAY THROUGH THURSDAY AND 6:00 AM FRIDAY TO 10:00 PM SUNDAY. CONTRACTOR TO COORDINATE BARRICADE PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE.

WORK AREA B

WORK AREA B AIRCRAFT MOVEMENT

CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF EXISTING TAXIWAY F EAST OF TAXIWAY N AND WEST OF TAXIWAY D, NEW TAXIWAY F EAST OF TAXIWAY N AND WEST OF TAXIWAY D, TAXIWAY F7 AND TAXIWAY F8, RUNWAY 9-27, RUNWAY 13-31, NEW TAXIWAY F (BEYOND THIS WORK AREA), TAXIWAYS F5, F9, N, D, R, AND S, THE RUNWAY 27 RUNUP AREA, AND THE AES AIRFIELD DRIVE ARE TO REMAIN OPEN. WORK WILL BE PERFORMED 8 HOURS PER DAY, SUNDAY THROUGH FRIDAY, 10:00 PM AND 6:00 AM. NEW TAXIWAY F, F7, AND F8 WILL BE FULLY OPENED BETWEEN 6:00 AM AND 10:00 PM MONDAY THROUGH THURSDAY AND 6:00 AM FRIDAY TO 10:00 PM SUNDAY. CONTRACTOR TO COORDINATE BARRICADE PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE.

WORK AREA C

WORK AREA C AIRCRAFT MOVEMENT

CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF EXISTING TAXIWAY F EAST OF TAXIWAY D AND WEST OF TAXIWAY R, NEW TAXIWAY F EAST OF TAXIWAY D AND WEST OF TAXIWAY R, TAXIWAY F9, AND THE RUNWAY 27 RUNUP AREA, RUNWAY 9-27, RUNWAY 13-31, NEW TAXIWAY F (BEYOND THIS WORK AREA), TAXIWAYS F5, F7, F8, N, D, R, AND S, AND THE AES AIRFIELD DRIVE ARE TO REMAIN OPEN. WORK WILL BE PERFORMED 8 HOURS PER DAY, SUNDAY THROUGH FRIDAY, 10:00 PM AND 6:00 AM. NEW TAXIWAY F, F9, AND THE RUNWAY 27 RUNUP AREA WILL BE FULLY OPENED BETWEEN 6:00 AM AND 10:00 PM MONDAY THROUGH THURSDAY AND 6:00 AM FRIDAY TO 10:00 PM SUNDAY. CONTRACTOR TO COORDINATE BARRICADE PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE.

WORK AREA A LIMIT OF WORK

THE LIMITS OF THIS WORK AREA ARE THE AREA FROM THE RUNWAY 13 RUNUP AREA TO 93' WEST OF TAXIWAY N AND FROM THE NORTHERN EDGE OF EXISTING TAXIWAY F TO 120' SOUTH OF THE RUNWAY 9-27 SAFETY AREA. THE WORK AREA WILL ALSO INCLUDE TAXIWAY S1.

WORK AREA B LIMIT OF WORK

THE LIMITS OF THIS WORK AREA ARE THE AREA FROM 93' EAST OF TAXIWAY N TO 93' WEST OF TAXIWAY D AND FROM THE NORTHERN EDGE OF EXISTING TAXIWAY F TO 120' SOUTH OF THE RUNWAY 9-27 SAFETY AREA.

WORK AREA C LIMIT OF WORK

THE LIMITS OF THIS WORK AREA ARE THE AREA FROM 93' EAST OF TAXIWAY D TO 93' WEST OF TAXIWAY R AND FROM THE NORTHERN EDGE OF EXISTING TAXIWAY F TO 170' SOUTH OF THE RUNWAY 9-27 SAFETY AREA.

WORK AREA A SEQUENCING

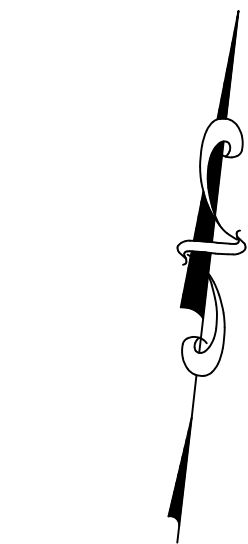
WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER THE COMPLETION OF PHASE 1 WORK AREA H. THE DEMOLITION OF TEMPORARY TAXIWAY S1 WILL BE PERFORMED IN ONE NIGHT.

WORK AREA B SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER THE COMPLETION OF PHASE 2 WORK AREA A.

WORK AREA C SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER THE COMPLETION OF PHASE 2 WORK AREA B.



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ENGINEERING, INC.
23297 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33428
(561) 451-9165 PHONE
(561) 451-4886 FAX

ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 06476
DATE:

DRAWN BY: DATE: 04-15-2019
ALB
DESIGNED BY: SCALE: AS NOTED
MM
CHECKED BY: TFO
FIELD BOOK:

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



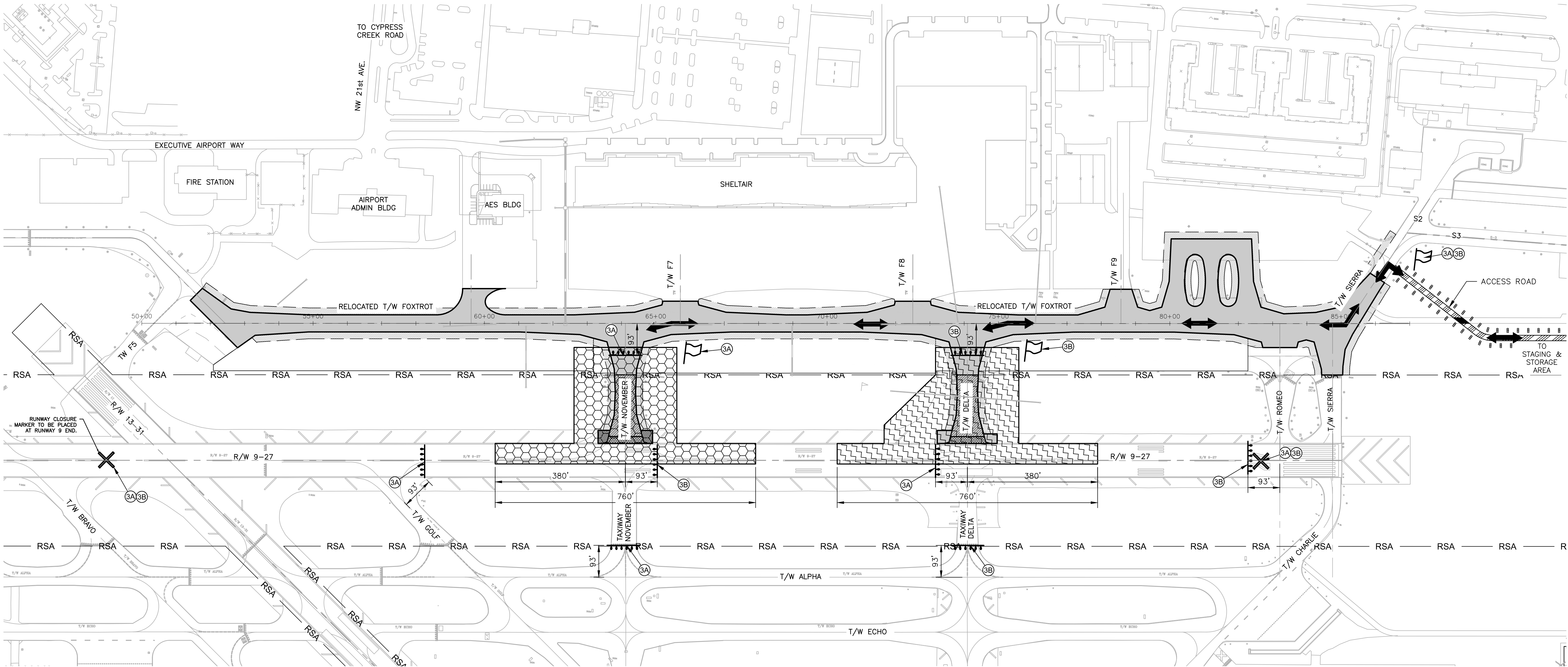
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12243
TAXIWAY FOX TROT
RELOCATION PROJECT
PHASING AND SAFETY PLAN - PHASE 2

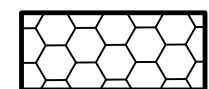
SHEET NO.	OF
C14	70
TOTAL:	103
CAD FILE:	12243-C14-PHAS2
DRAWING FILE NO.	4-141-45

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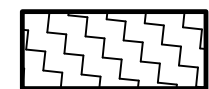
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LEGEND



PHASE 3. AREA A



PHASE 3. AREA B



LOW LEVEL AIRFIELD BARRICADES - GROUP A - IN PLACE FOR DURATION OF PHASE



LOW LEVEL AIRFIELD BARRICADES - GROUP B - IN PLACE DURING WORKING HOURS



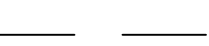
APPROXIMATE BARRICADE LOCATION BY PHASE NUMBER



TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05



TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05



RUNWAY SAFETY AREA



RELOCATED TAXIWAY F PAVEMENT SEE PAVEMENT GEOMETRY PLANS, SHEETS C38 TO C42



FLAG MAN



GUARD SHACK



ACCESS ARROWS



TEMPORARY ACCESS ROAD, SEE DETAIL SHEET C29

WORK AREA A DESCRIPTION

1. INSTALL BARRICADES AND RUNWAY CLOSURE MARKERS.
2. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES.
3. REMOVE BITUMINOUS PAVEMENT AS REQUIRED WITHIN LIMITS OF WORK.
4. MILL BITUMINOUS ASPHALT AS REQUIRED WITHIN LIMITS OF WORK.
5. PERFORM CLEARING AND GRUBBING.
6. PERFORM EXCAVATION OF DRAINAGE AREA.
7. MODIFY EXISTING DRAINAGE STRUCTURES.
8. PERFORM ELECTRICAL DEMOLITION AND INSTALLATION WORK.
9. PAVE (P-401) ASPHALT.
10. GRIND OFF TAXIWAY LEAD IN PAINT MARKINGS.
11. APPLY TEMPORARY PAINT MARKING.
12. INSTALL TOPSOILING AND SODDING

WORK AREA B DESCRIPTION

1. INSTALL BARRICADES AND RUNWAY CLOSURE MARKERS.
2. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES.
3. REMOVE BITUMINOUS PAVEMENT AS REQUIRED WITHIN LIMITS OF WORK.
4. MILL BITUMINOUS ASPHALT AS REQUIRED WITHIN LIMITS OF WORK.
5. PERFORM CLEARING AND GRUBBING.
6. PERFORM EXCAVATION OF DRAINAGE AREA.
7. MODIFY EXISTING DRAINAGE STRUCTURES.
8. PERFORM ELECTRICAL DEMOLITION AND INSTALLATION WORK.
9. PAVE (P-401) ASPHALT.
10. GRIND PAINT MARKING.
11. APPLY TEMPORARY PAINT MARKING.
12. INSTALL TOPSOILING AND SODDING.

WORK AREA A AIRCRAFT MOVEMENT

CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF RUNWAY 9-27, TAXIWAY N NORTH OF TAXIWAY A, AND TAXIWAY F EAST OF THE AES AIRFIELD DRIVE AND WEST OF TAXIWAY F7. RUNWAY 13-31, NEW TAXIWAY F (BEYOND THIS WORK AREA), TAXIWAYS F5, F7, F8, F9, D, R, AND S, THE RUNWAY 27 RUNUP AREA, AND THE AES AIRFIELD DRIVE ARE TO REMAIN OPEN. WORK WILL BE PERFORMED 8 HOURS PER DAY, SUNDAY THROUGH FRIDAY, 10:00 PM AND 6:00 AM. RUNWAY 9-27 AND NEW TAXIWAY F WILL BE FULLY OPENED BETWEEN 6:00 AM AND 10:00 PM MONDAY THROUGH THURSDAY AND 6:00 AM FRIDAY TO 10:00 PM SUNDAY. CONTRACTOR TO COORDINATE BARRICADE PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE.

WORK AREA B AIRCRAFT MOVEMENT

CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF RUNWAY 9-27, TAXIWAY D NORTH OF TAXIWAY A, AND TAXIWAY F EAST OF TAXIWAY F8 AND WEST OF TAXIWAY F9. RUNWAY 13-31, NEW TAXIWAY F (BEYOND THIS WORK AREA), TAXIWAYS F5, F7, F8, F9, D, R, AND S, THE RUNWAY 27 RUNUP AREA, AND THE AES AIRFIELD DRIVE ARE TO REMAIN OPEN. WORK WILL BE PERFORMED 8 HOURS PER DAY, SUNDAY THROUGH FRIDAY, 10:00 PM AND 6:00 AM. RUNWAY 9-27 AND NEW TAXIWAY F WILL BE FULLY OPENED BETWEEN 6:00 AM AND 10:00 PM MONDAY THROUGH THURSDAY AND 6:00 AM FRIDAY TO 10:00 PM SUNDAY. CONTRACTOR TO COORDINATE BARRICADE PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE.

PHASE 3

WORK AREA A

WORK AREA A LIMIT OF WORK

THE LIMITS OF THIS WORK AREA ARE THE AREA WITHIN 93' OF THE CENTERLINE OF TAXIWAY N NORTH OF RUNWAY 9-27 AND ITS TAXIWAY LEAD IN LINES.

WORK AREA A SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER THE COMPLETION OF PHASE 2 WORK AREA D.

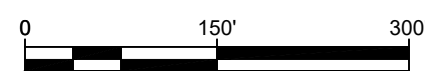
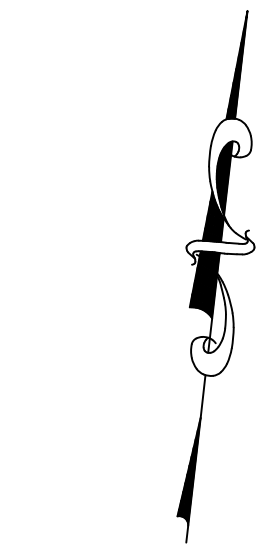
WORK AREA B

WORK AREA B LIMIT OF WORK

THE LIMITS OF THIS WORK AREA ARE THE AREA WITHIN 93' OF THE CENTERLINE OF TAXIWAY D NORTH OF RUNWAY 9-27, ITS PAVED SHOULDERS, AND ITS TAXIWAY LEAD IN LINES.

WORK AREA B SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER THE COMPLETION OF PHASE 3 WORK AREA A



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FAX: (561) 451-9886

HILLERS ELECTRICAL
ENGINEERING, INC.
23257 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33428
(561) 451-9165 PHONE
(561) 451-9886 FAX

ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 062476
DATE:

DRAWN BY:
ALB
DESIGNED BY:
MM
CHECKED BY:
TFO
FIELD BOOK:

DATE:
04-15-2019
SCALE:
AS NOTED

TEL: 561-840-0825
FAX:

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

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12243
TAXIWAY FOX TROT
RELOCATION PROJECT
PHASING AND SAFETY PLAN - PHASES 3A & 3B

SHEET NO. OF
C15 70

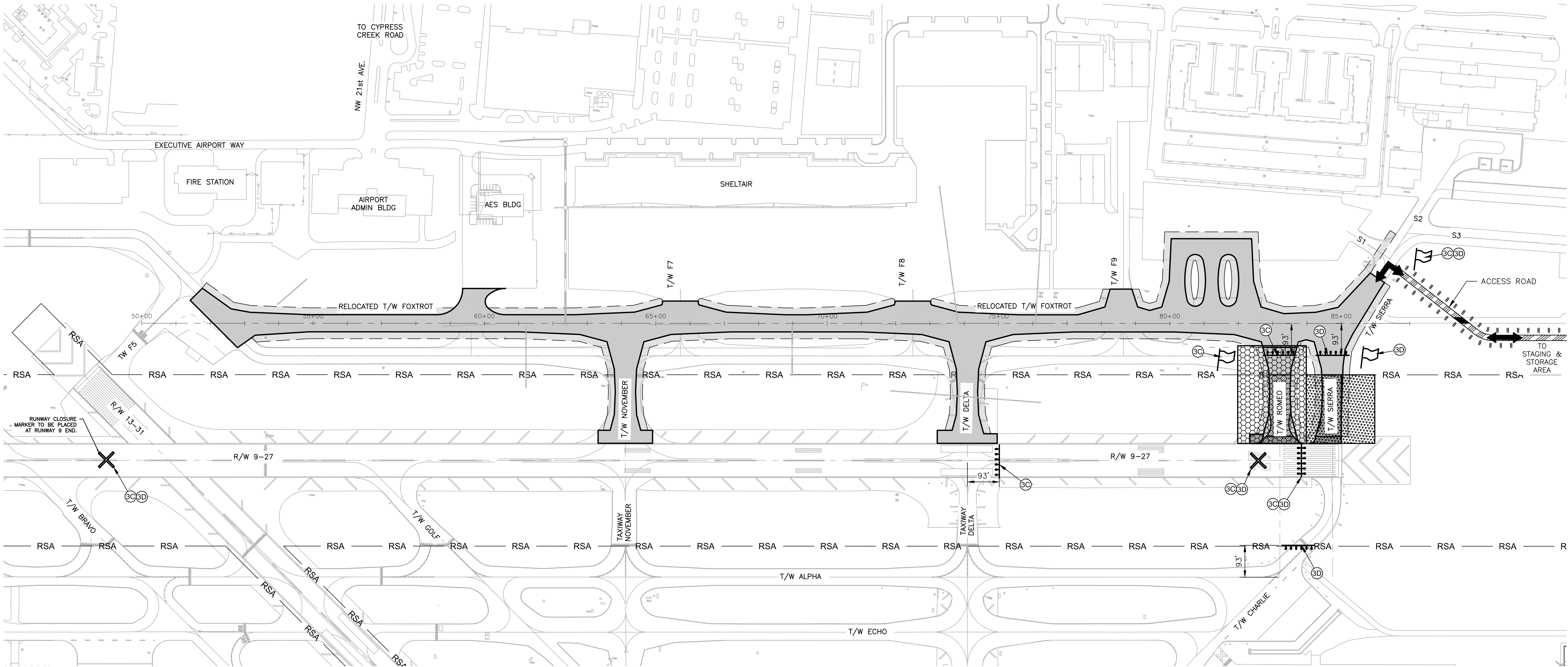
TOTAL: 103

CAD FILE:
12243-C15-PHAS3AB

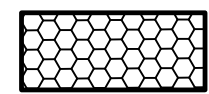
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4-141-45

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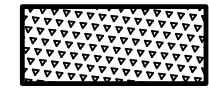
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LEGEND



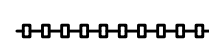
PHASE 3, AREA C



PHASE 3, AREA D



LOW LEVEL AIRFIELD BARRICADES - GROUP A - IN PLACE FOR DURATION OF PHASE



LOW LEVEL AIRFIELD BARRICADES - GROUP B - IN PLACE DURING WORKING HOURS



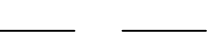
APPROXIMATE BARRICADE LOCATION BY PHASE NUMBER



TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05



TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05



RUNWAY SAFETY AREA



RELOCATED TAXIWAY F PAVEMENT SEE PAVEMENT GEOMETRY PLANS, SHEETS C38 TO C42



FLAG MAN



GUARD SHACK



ACCESS ARROWS



TEMPORARY ACCESS ROAD, SEE DETAIL SHEET C29

WORK AREA C DESCRIPTION

1. INSTALL BARRICADES AND RUNWAY CLOSURE MARKERS.
2. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES.
3. REMOVE BITUMINOUS PAVEMENT AS REQUIRED WITHIN LIMITS OF WORK.
4. MILL BITUMINOUS ASPHALT AS REQUIRED WITHIN LIMITS OF WORK.
5. PERFORM CLEARING AND GRUBBING.
6. PERFORM EXCAVATION OF DRAINAGE AREA.
7. PERFORM ELECTRICAL DEMOLITION AND INSTALLATION WORK.
8. CONSTRUCT SUBGRADE, SUBBASE, AND LIME ROCK COURSES.
9. PAVE (P-401) ASPHALT.
10. APPLY TEMPORARY PAINT MARKING.
11. INSTALL TOPSOILING AND SODDING

WORK AREA C AIRCRAFT MOVEMENT

CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF RUNWAY 9-27, TAXIWAY R, AND NEW TAXIWAY F EAST OF THE RUNWAY 27 RUNUP AREA AND WEST OF TAXIWAY S. RUNWAY 13-31, NEW TAXIWAY F (BEYOND THIS WORK AREA), TAXIWAYS F5, F7, F8, F9, N, D, AND S, THE RUNWAY 27 RUNUP AREA, AND THE AES AIRFIELD DRIVE ARE TO REMAIN OPEN. WORK WILL BE PERFORMED 8 HOURS PER DAY, SUNDAY THROUGH FRIDAY, 10:00 PM AND 6:00 AM. RUNWAY 9-27 WILL BE FULLY OPENED BETWEEN 6:00 AM AND 10:00 PM MONDAY THROUGH THURSDAY AND 6:00 AM FRIDAY TO 10:00 PM SUNDAY. CONTRACTOR TO COORDINATE BARRICADE PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE.

WORK AREA C LIMIT OF WORK

THE LIMITS OF THIS WORK AREA ARE THE AREA WITHIN 93' OF THE CENTERLINE OF TAXIWAY R.

WORK AREA C SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER THE COMPLETION OF PHASE 3 WORK AREA B.

WORK AREA D DESCRIPTION

1. INSTALL BARRICADES AND RUNWAY CLOSURE MARKERS.
2. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES.
3. REMOVE BITUMINOUS PAVEMENT AS REQUIRED WITHIN LIMITS OF WORK.
4. MILL BITUMINOUS ASPHALT AS REQUIRED WITHIN LIMITS OF WORK.
5. PERFORM CLEARING AND GRUBBING.
6. PERFORM EXCAVATION OF DRAINAGE AREA.
7. PERFORM ELECTRICAL DEMOLITION AND INSTALLATION WORK.
8. CONSTRUCT SUBGRADE, SUBBASE, AND LIME ROCK COURSES.
9. PAVE (P-401) ASPHALT.
10. APPLY TEMPORARY PAINT MARKING.
11. INSTALL TOPSOILING AND SODDING.

WORK AREA D AIRCRAFT MOVEMENT

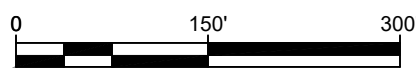
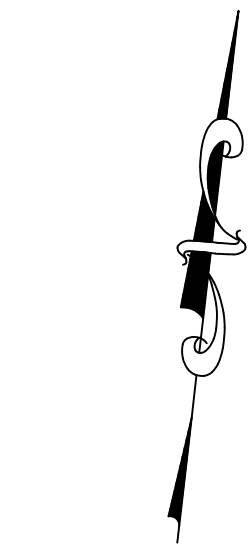
CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF RUNWAY 9-27, TAXIWAY S NORTH OF TAXIWAY A, AND NEW TAXIWAY F EAST OF TAXIWAY R. RUNWAY 13-31, NEW TAXIWAY F (BEYOND THIS WORK AREA), TAXIWAYS F5, F7, F8, F9, N, D, AND R, THE RUNWAY 27 RUNUP AREA, AND THE AES AIRFIELD DRIVE ARE TO REMAIN OPEN. WORK WILL BE PERFORMED 8 HOURS PER DAY, SUNDAY THROUGH FRIDAY, 10:00 PM AND 6:00 AM. RUNWAY 9-27 AND NEW TAXIWAY F WILL BE FULLY OPENED BETWEEN 6:00 AM AND 10:00 PM MONDAY THROUGH THURSDAY AND 6:00 AM FRIDAY TO 10:00 PM SUNDAY. CONTRACTOR TO COORDINATE BARRICADE PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE.

WORK AREA D LIMIT OF WORK

THE LIMITS OF THIS WORK AREA ARE THE AREA WITHIN 93' OF THE CENTERLINE OF TAXIWAY S NORTH OF RUNWAY 9-27 AND SOUTH OF NEW TAXIWAY F.

WORK AREA D SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER THE COMPLETION OF PHASE 3 WORK AREA C.



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FAA FACILITIES 954-356-7212

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FPOE: TEL: CA 0000000000
044693068

HILLERS ELECTRICAL ENGINEERING, INC.
23257 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33428
(561) 451-9165 PHONE
(561) 451-4886 FAX

ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 062476
DATE:

DRAWN BY:
ALB
DESIGNED BY:
MM
CHECKED BY:
TFO
FIELD BOOK:

DATE:
04-15-2019
SCALE:
AS NOTED

TEL: 561-840-0825
FAX:

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

NO.	REVISIONS		DESCRIPTION
	BY	CHK'D	

PROJECT # 12243
TAXIWAY FOX TROT
RELOCATION PROJECT
PHASING AND SAFETY PLAN - PHASES 3C & 3D

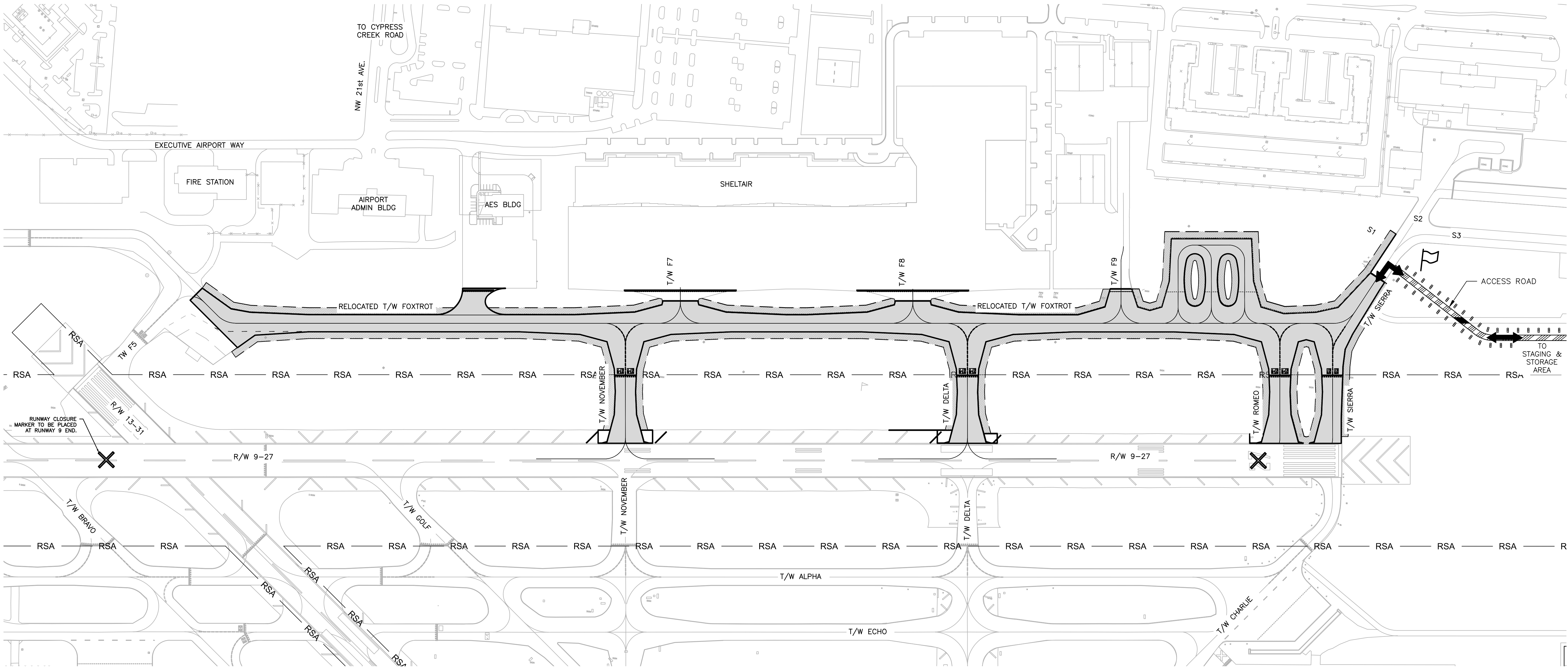
SHEET NO. OF
C16 70

TOTAL: 103

CAD FILE:
12243-C16-PHAS3CD

DRAWING FILE NO.
4-141-45

K:\FTL\AVIATION\044693068 - FXE FOX TROT RELOCATION\CADD\PLANSHEETS\12243-C17-PHAS4.DWG



LEGEND



PHASE 4.



LOW LEVEL AIRFIELD BARRICADES - GROUP A - IN PLACE FOR DURATION OF PHASE



LOW LEVEL AIRFIELD BARRICADES - GROUP B - IN PLACE DURING WORKING HOURS

(1A)

APPROXIMATE BARRICADE LOCATION BY PHASE NUMBER



TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05



TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05

RUNWAY SAFETY AREA



RELOCATED TAXIWAY F PAVEMENT SEE PAVEMENT GEOMETRY PLANS, SHEETS C38 TO C42



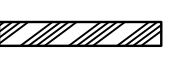
FLAG MAN



GUARD SHACK



ACCESS ARROWS



TEMPORARY ACCESS ROAD, SEE DETAIL SHEET C29

PHASE 4

WORK AREA A

WORK AREA A DESCRIPTION

1. INSTALL BARRICADES AND RUNWAY CLOSURE MARKERS AS DIRECTED BY AIRPORT STAFF.
2. APPLY FINAL PAINT MARKING.
3. CORRECT EDGE CONDITIONS BY INSTALL FILL ALONG EDGES OF PAVEMENT.
4. PERFORM ELECTRICAL HOMERUN.
5. PERFORM PUNCHLIST.

WORK AREA A AIRCRAFT MOVEMENT

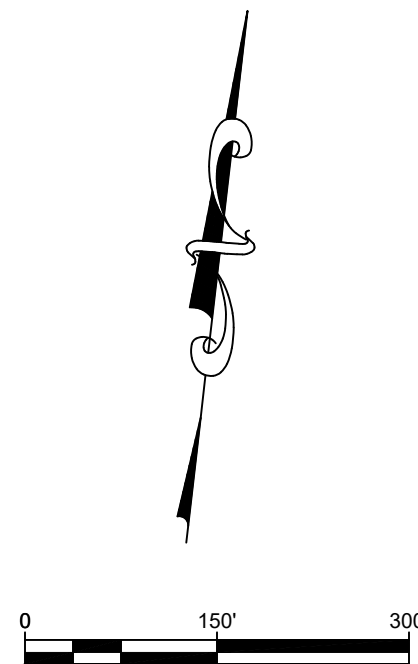
CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE PERIODIC CLOSURES OF RUNWAY 9-27, NEW TAXIWAY F, TAXIWAYS F7, F8, F9, N, D, R, AND S, THE RUNWAY 27 RUNUP AREA, AND THE AES AIRFIELD DRIVE. THE EXACT LIMITS OF WORK AREAS WILL BE DETERMINED IN THE FIELD. RUNWAYS 13-31 IS TO REMAIN OPEN. WORK WILL BE PERFORMED 8.5 HOURS PER DAY, MONDAY THROUGH FRIDAY, 7:30 AM AND 4:00 PM. CONTRACTOR TO COORDINATE BARRICADE AND CLOSURE MARKING PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE.

WORK AREA A LIMIT OF WORK

THE EXACT LIMITS OF WORK AREAS WILL BE DETERMINED IN THE FIELD. CONTRACTOR WILL COORDINATE WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE.

WORK AREA A SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED A MINIMUM OF 28 DAYS AFTER THE COMPLETION OF PAVING AND SEQUENTIALLY AFTER THE COMPLETION OF PHASE 3 WORK AREA D.



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PHONE: 561-855-8888 FAX: 561-855-8888

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ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62476
DATE:
DRAWN BY:
ALB
DESIGNED BY:
SCALE:
MM
CHECKED BY:
TFO
FIELD BOOK:
TEL: 561-840-0825
FAX:

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

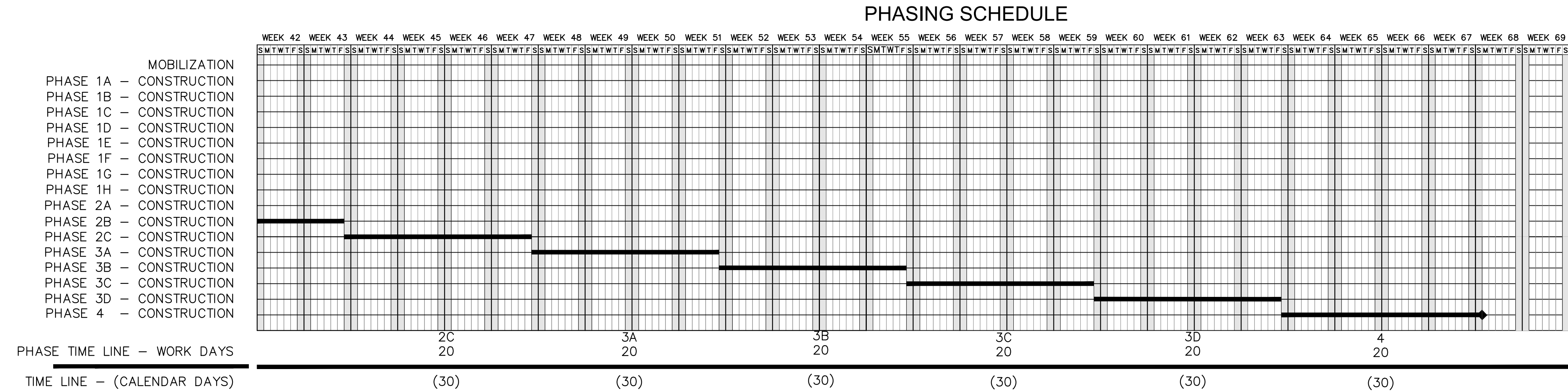
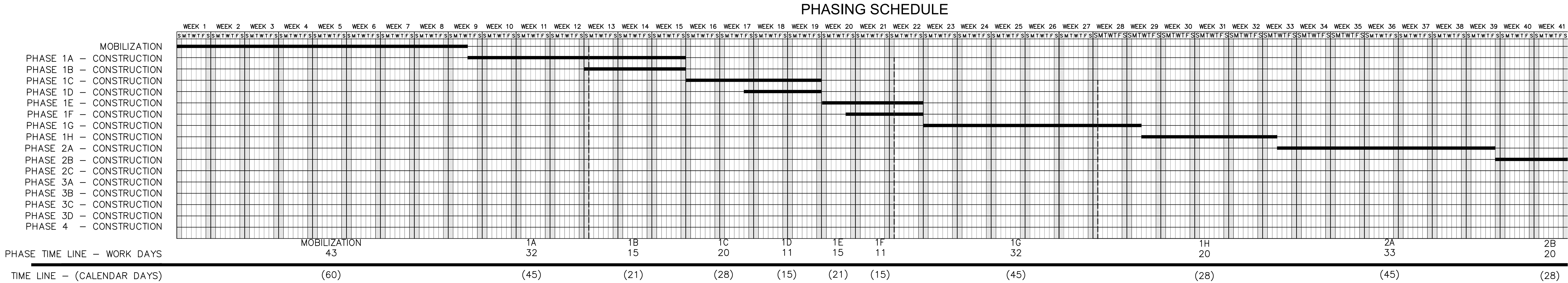
REVISIONS
NO. DATE BY CH'D DESCRIPTION

PROJECT # 12243
TAXIWAY FOX TROT
RELOCATION PROJECT
PHASING AND SAFETY PLAN - PHASE 4

SHEET NO. OF
C17 70
TOTAL: 103
CAD FILE:
12243-C17-PHAS4
DRAWING FILE NO.
4-141-45

BID SET

K:\FTL\AVIATION\044693068 - FXE FOX TROT RELOCATION\CADD\PLANSHEETS\12243-C18-SCHD.DWG



PHASE TIME LINE
335 WORK DAYS

TIME LINE -
480 (CALENDAR DAYS)

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(561) 451-9165 PHONE (561) 451-4886 FAX

BID SET

PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
PHASING SCHEDULE

SHEET NO.	OF
C18	70
TOTAL:	103
CAD FILE:	12243-C18-SCHD
DRAWING FILE NO.	4-141-45

State of Florida
Professional Engineer
License No. 62478

THOMAS F. O'DONNELL

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REV	NO.	DATE	BY	CHK'D	DESCRIPTION