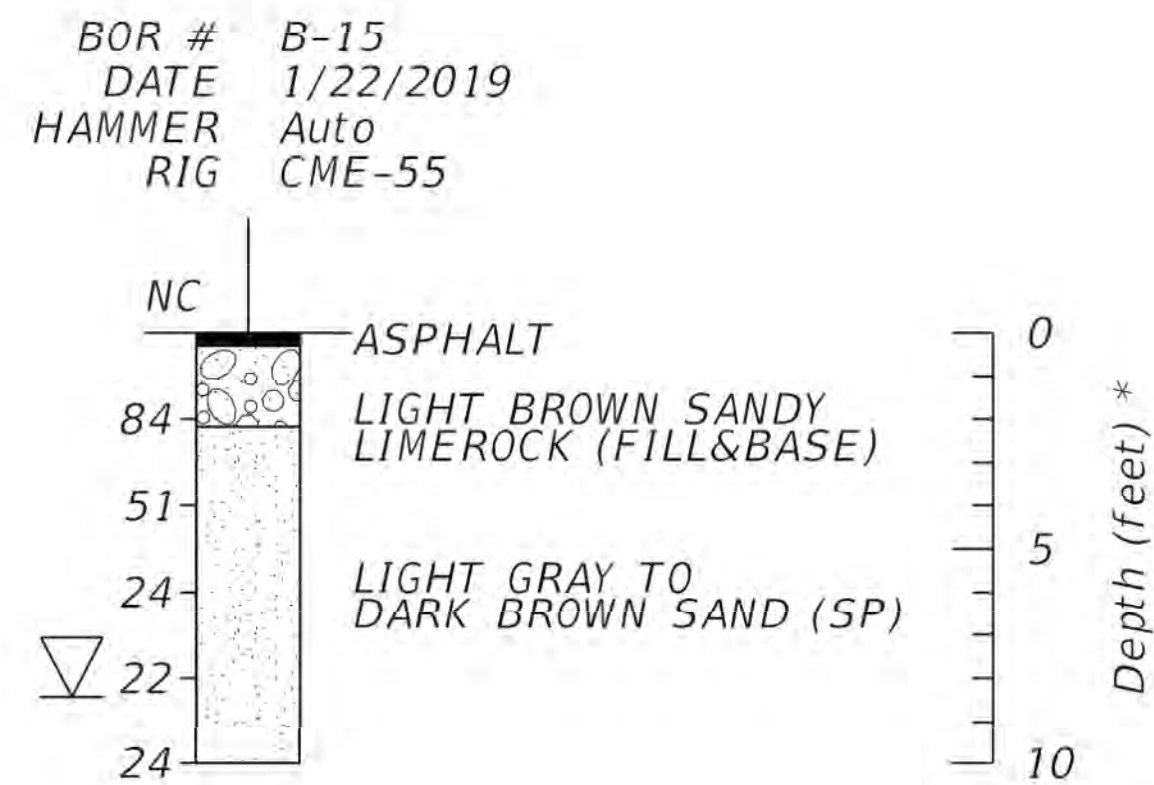
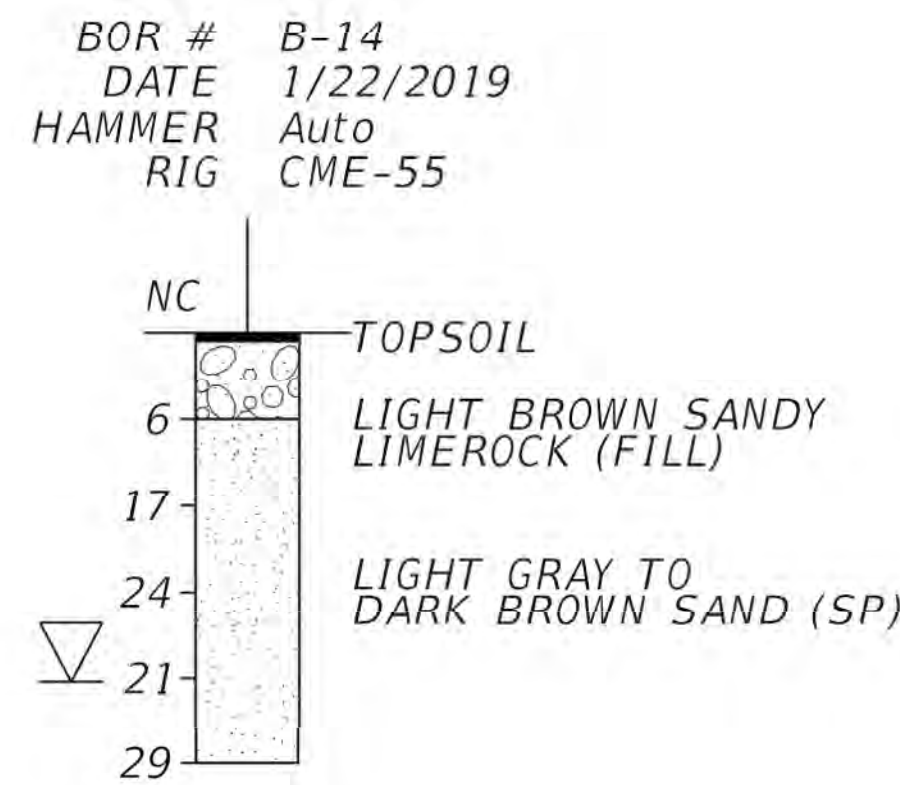
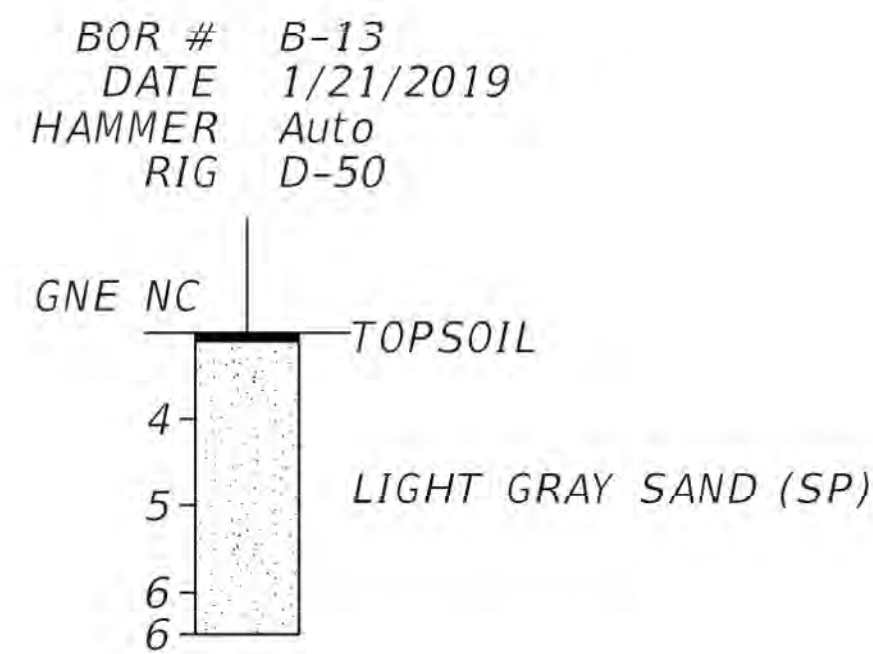
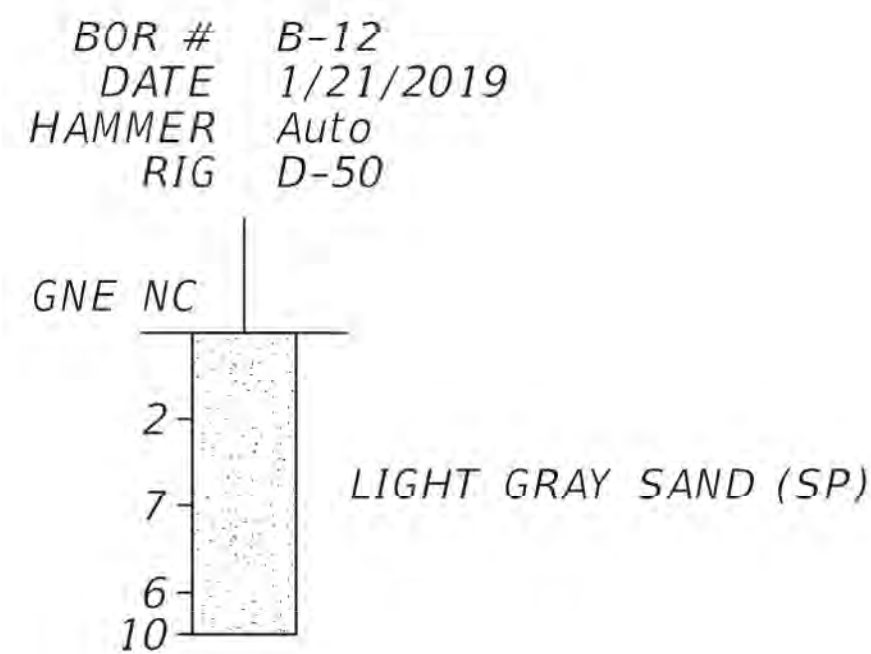
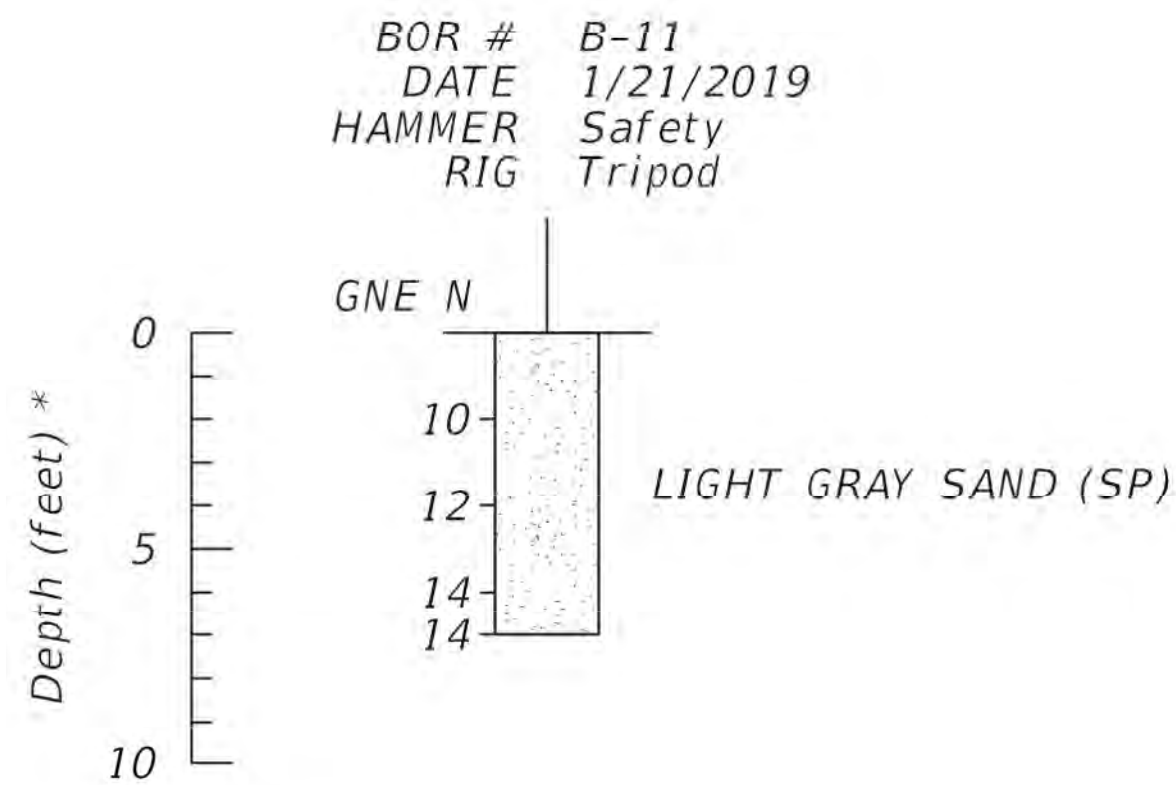
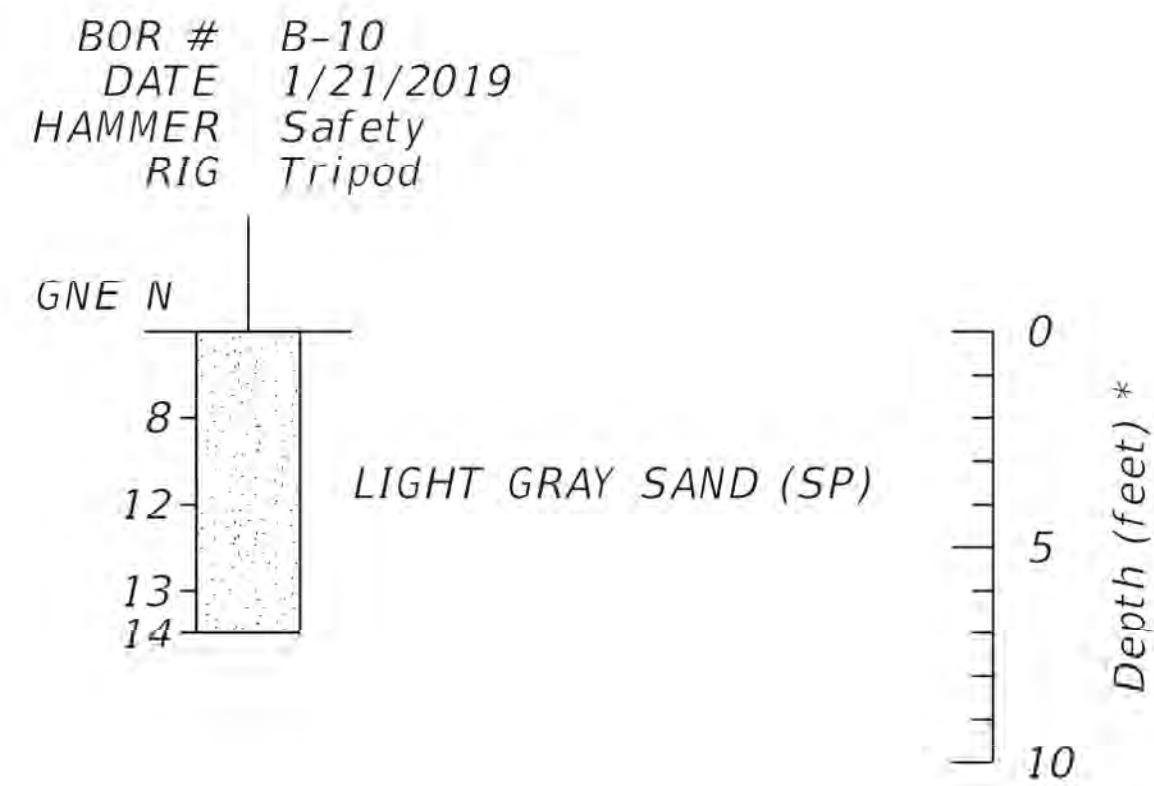
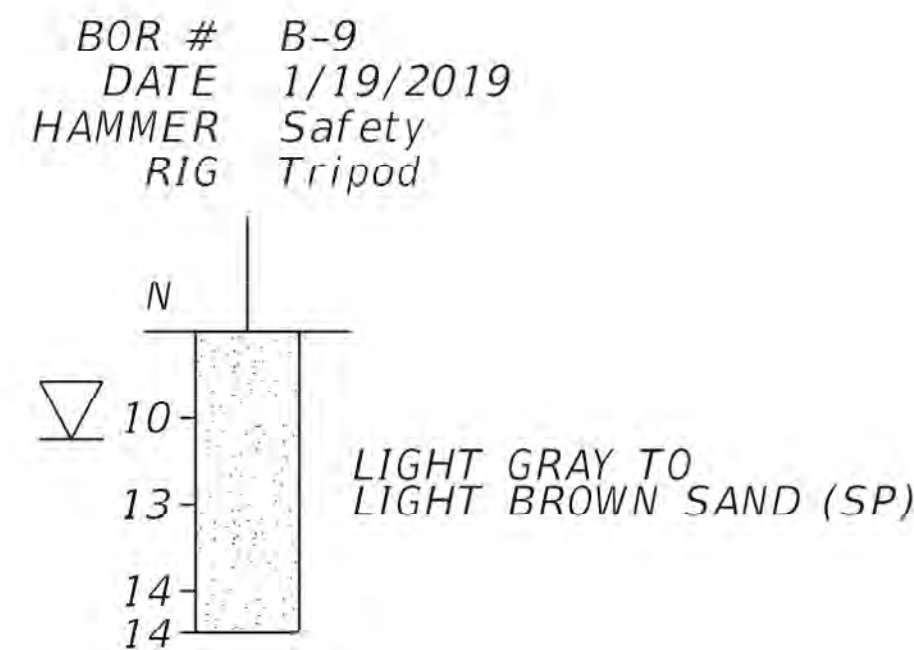
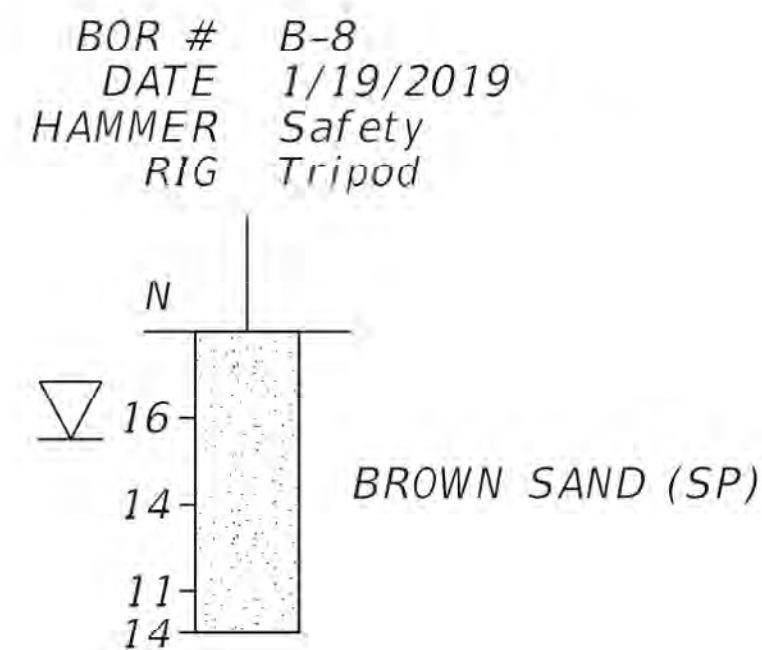
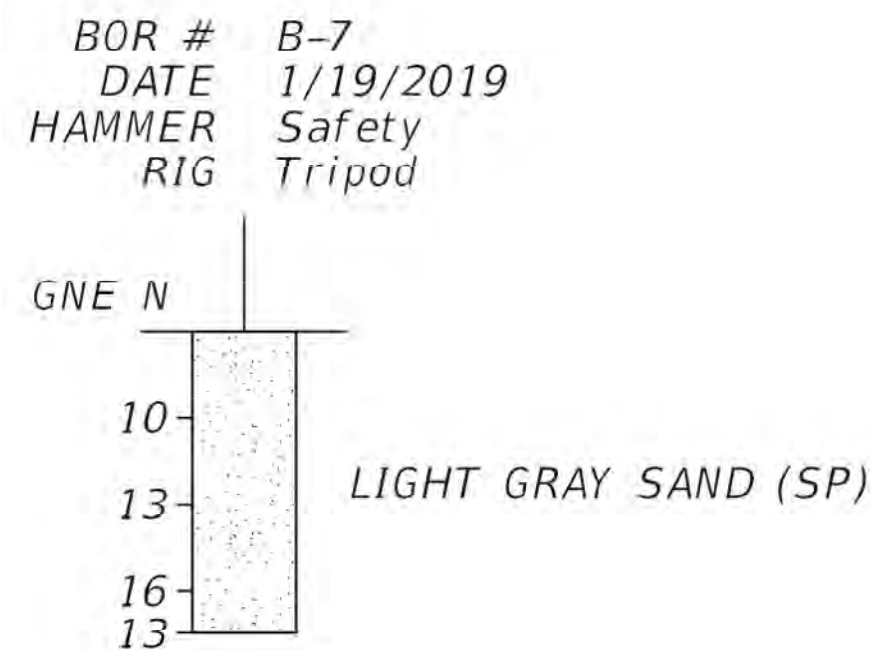
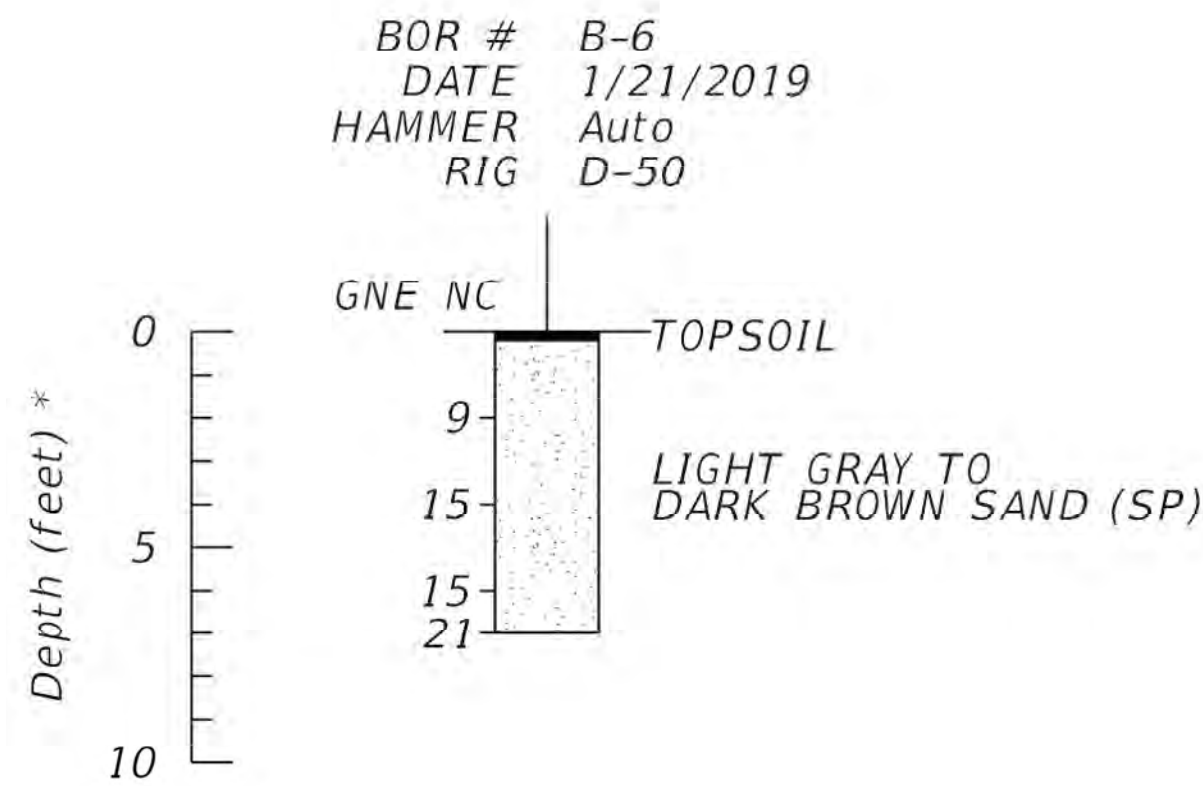
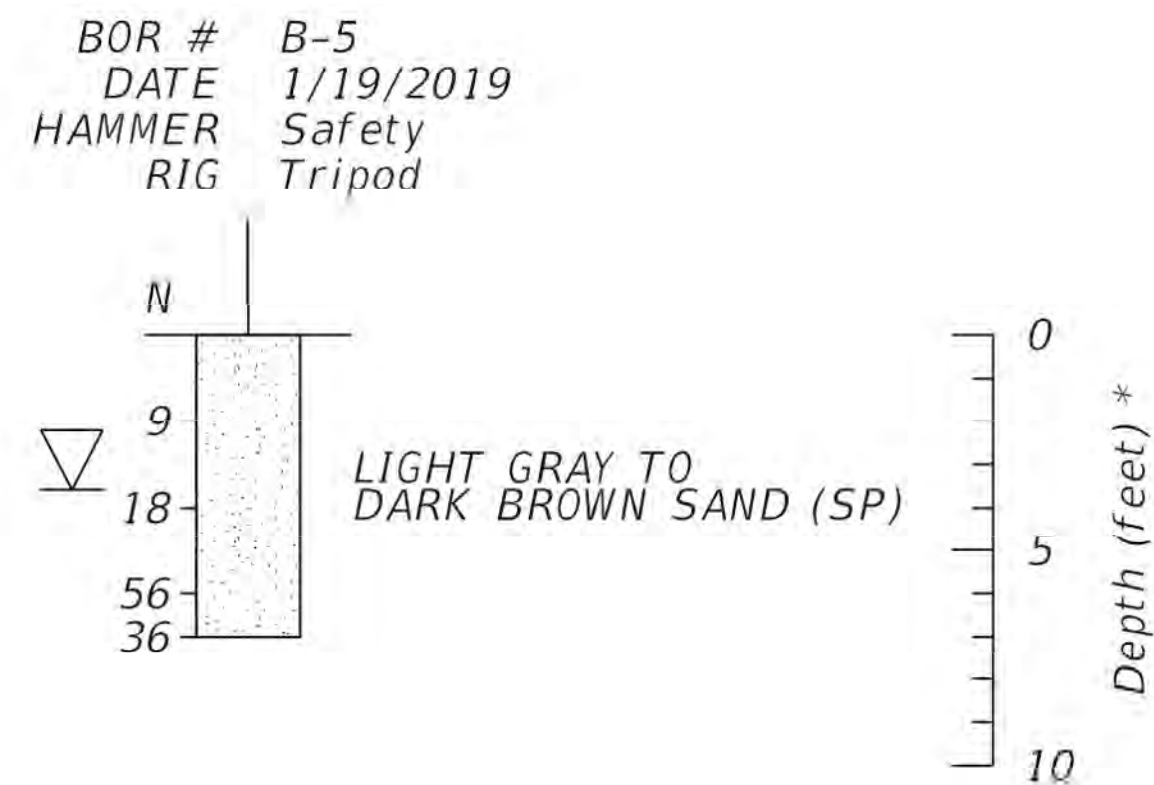
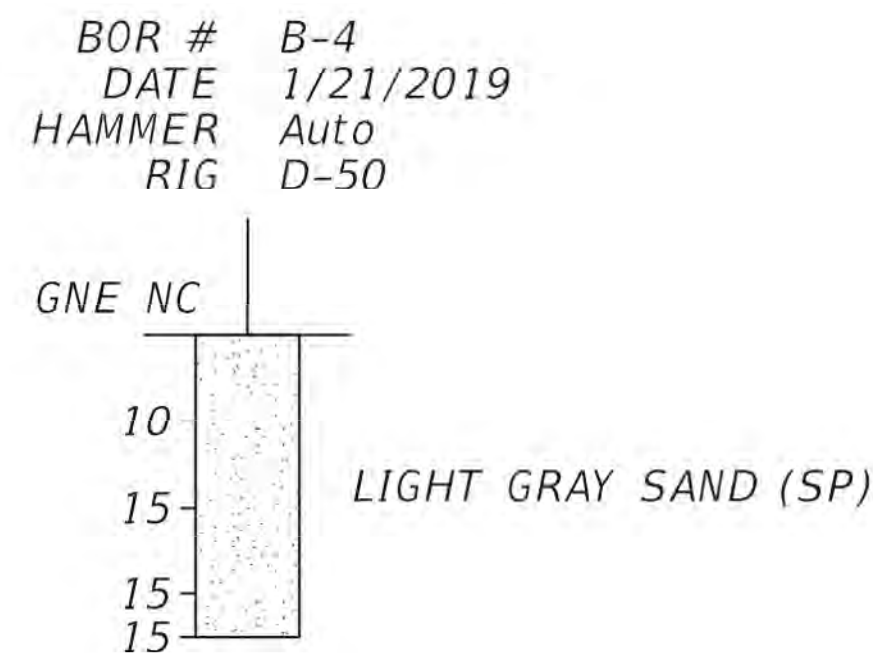
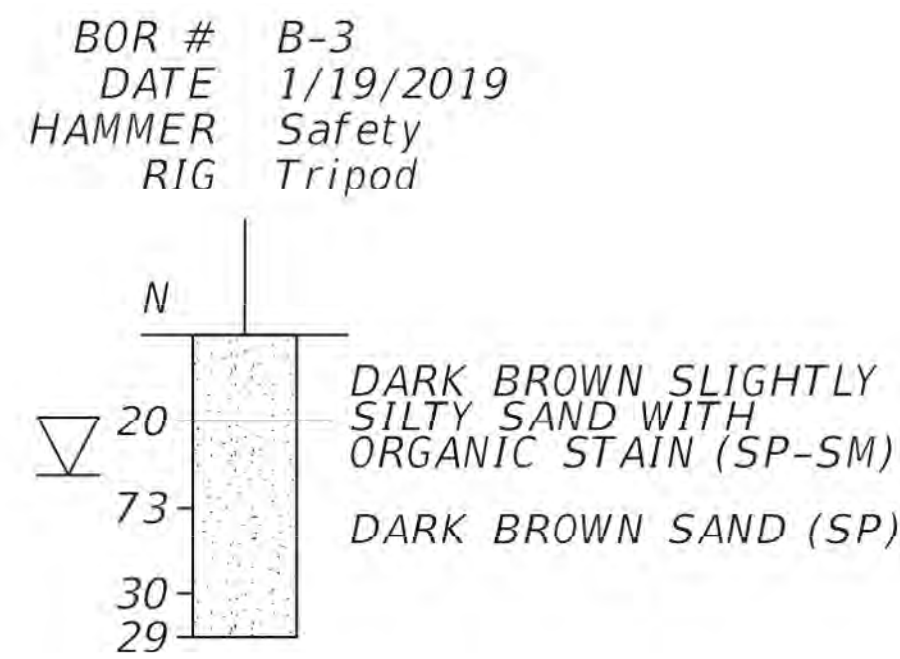
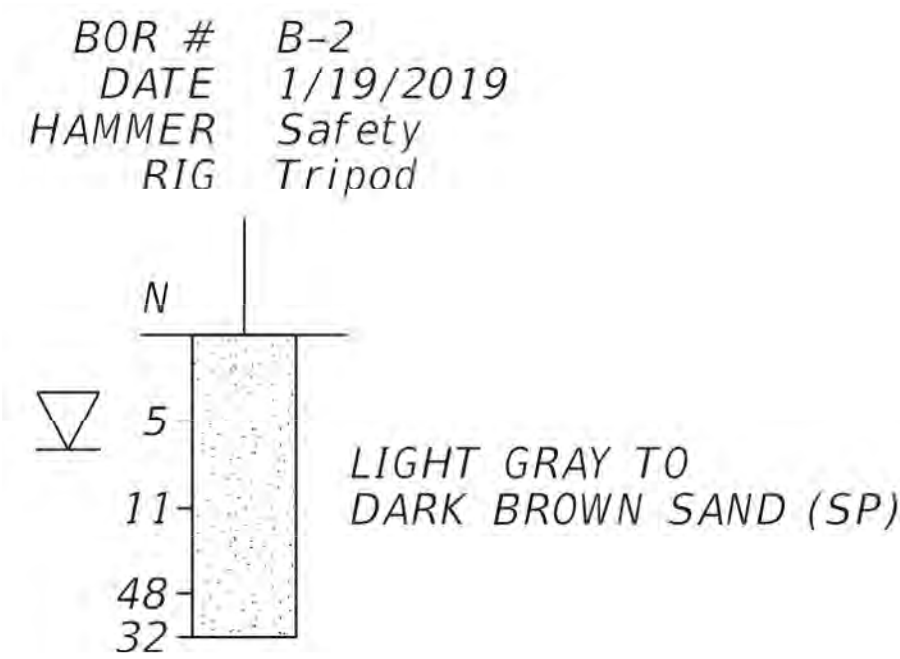
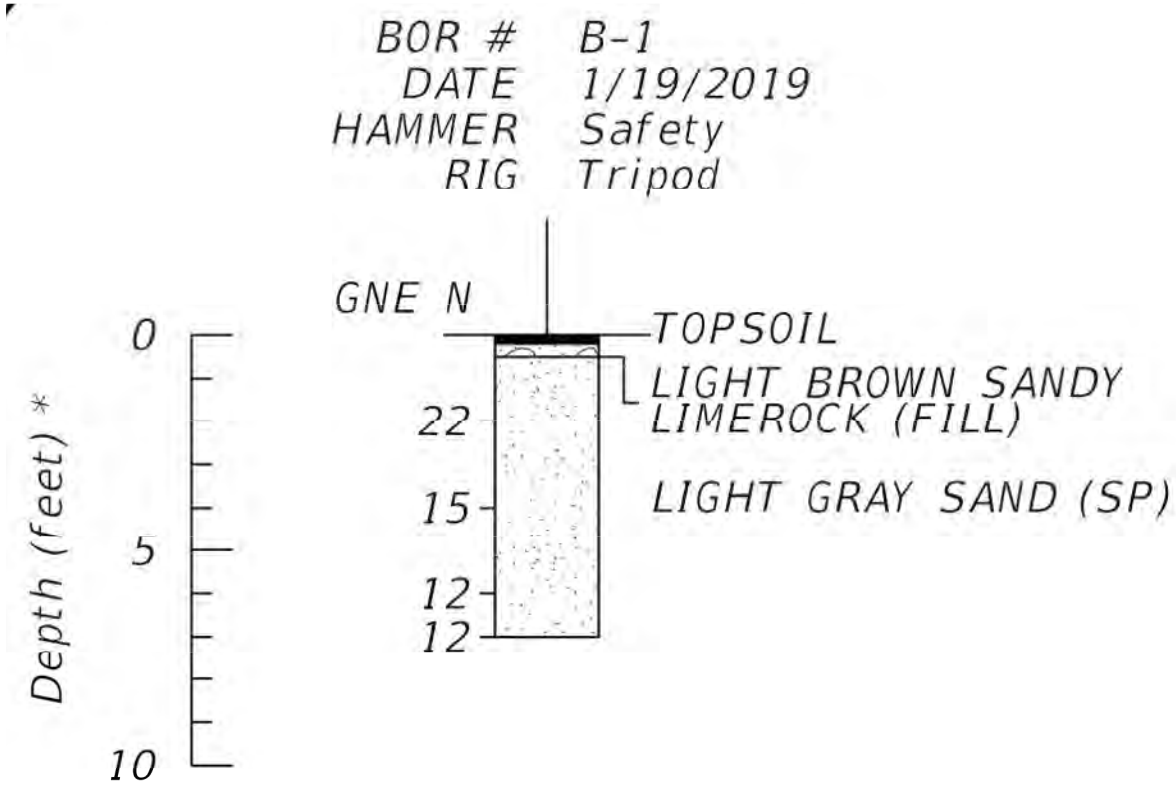


K:\FL\AVIATION\044693068 - FXE FOX TROT RELOCATION\CADD\PLANSHEETS\12243-MULTI-BORE.DWG



LEGEND

Asphalt/Topsoil

Sandy Gravel

Sand

NOTES

- ENCOUNTERED GROUNDWATER TABLE
- * DENOTES DEPTH IN FEET FROM EXISTING GROUND SURFACE
- N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION.
- NC NUMBERS TO THE LEFT OF BORINGS INDICATE CORRECTED SPT VALUE FOR 12" PENETRATION USING AN AUTOMATIC HAMMER CORRECTION FACTOR OF 1.24

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811



SUNSHINE STATE ONE CALL OF FLORIDA, INC.

CALL 48 HOURS BEFORE DIGGING
FAA FACILITIES 954-356-7212

CORING/BORING PROFILES PROVIDED BY:



Tierra South Florida 2765
Vista Parkway Suite 10
West Palm Beach, Florida 33411
Phone: 561-687-8536
Fax: 561-687-8570
FL Cert. No.: 28073

Kimley-Horn
Kimley-Horn and Associates, Inc.

©2019 KIMLEY-HORN AND ASSOCIATES, INC.
1920 WENONA WAY, SUITE 200, WEST PALM BEACH, FL 33411
PHONE: (561) 451-9165 PHONE (561) 451-4886 FAX (561) 451-4886

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

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

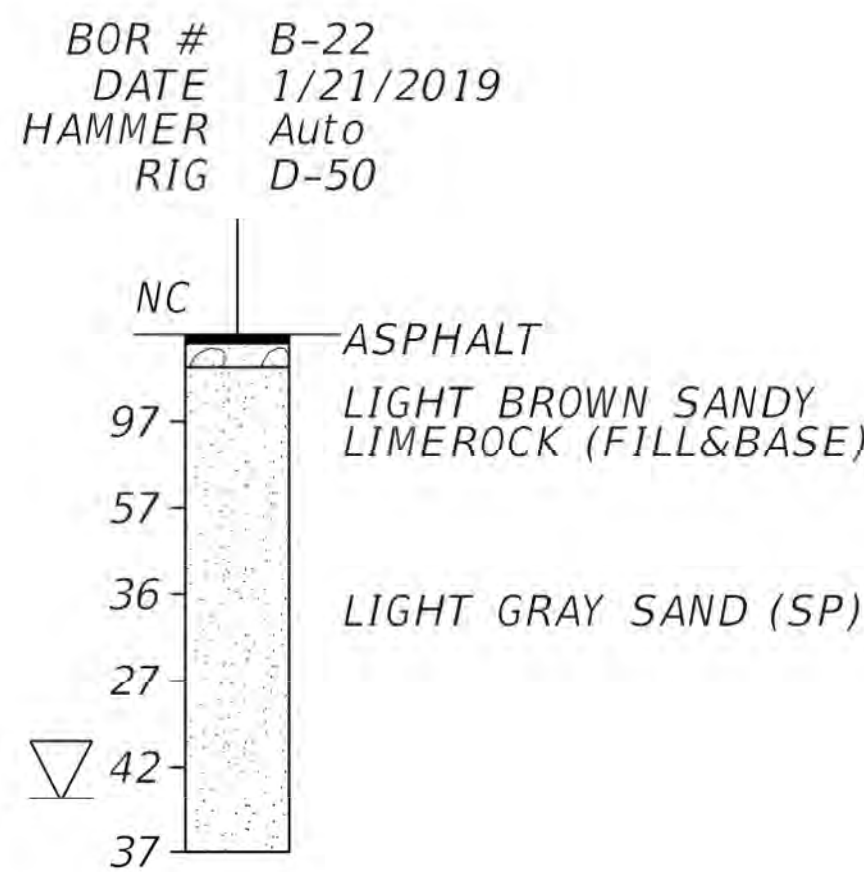
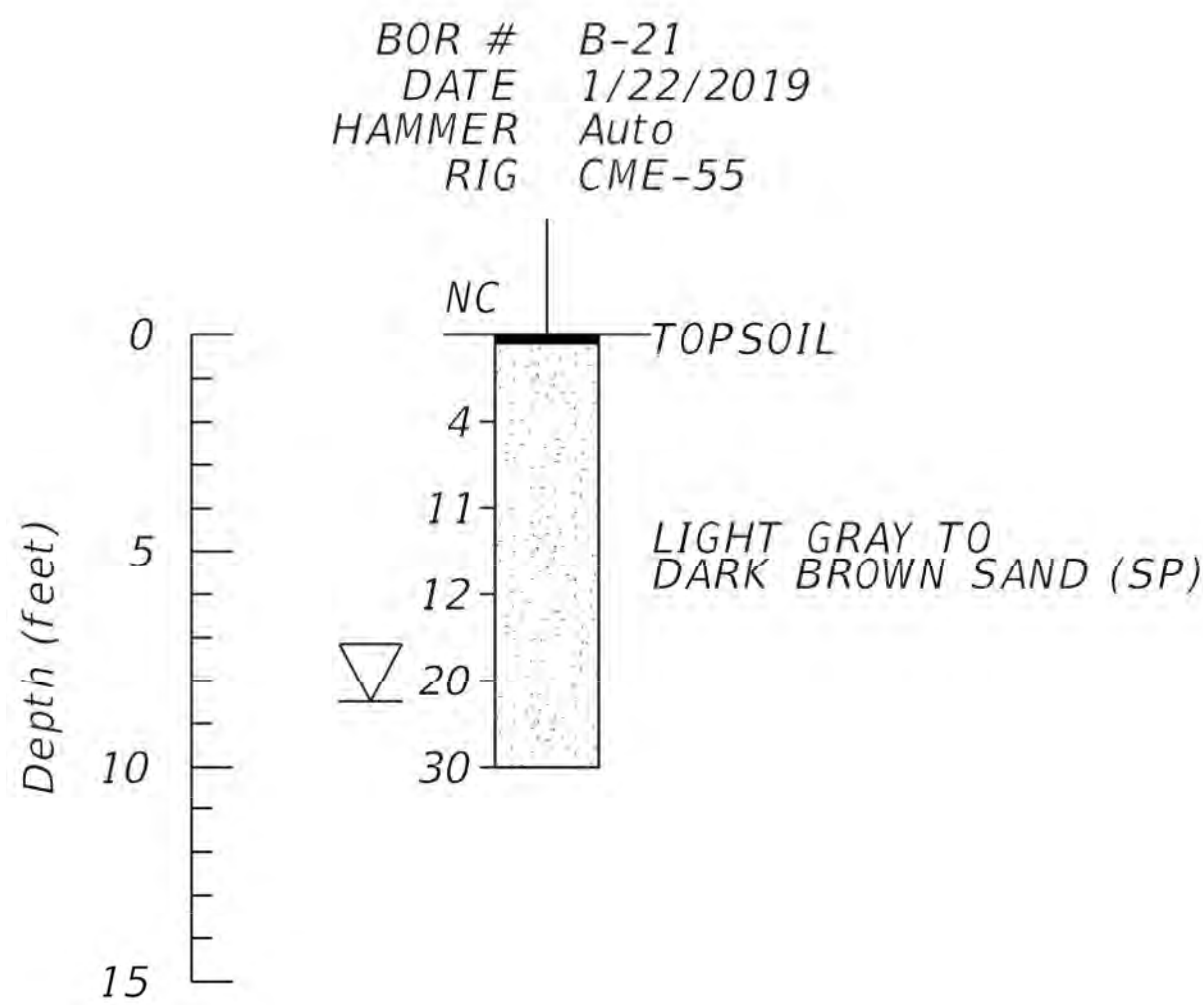
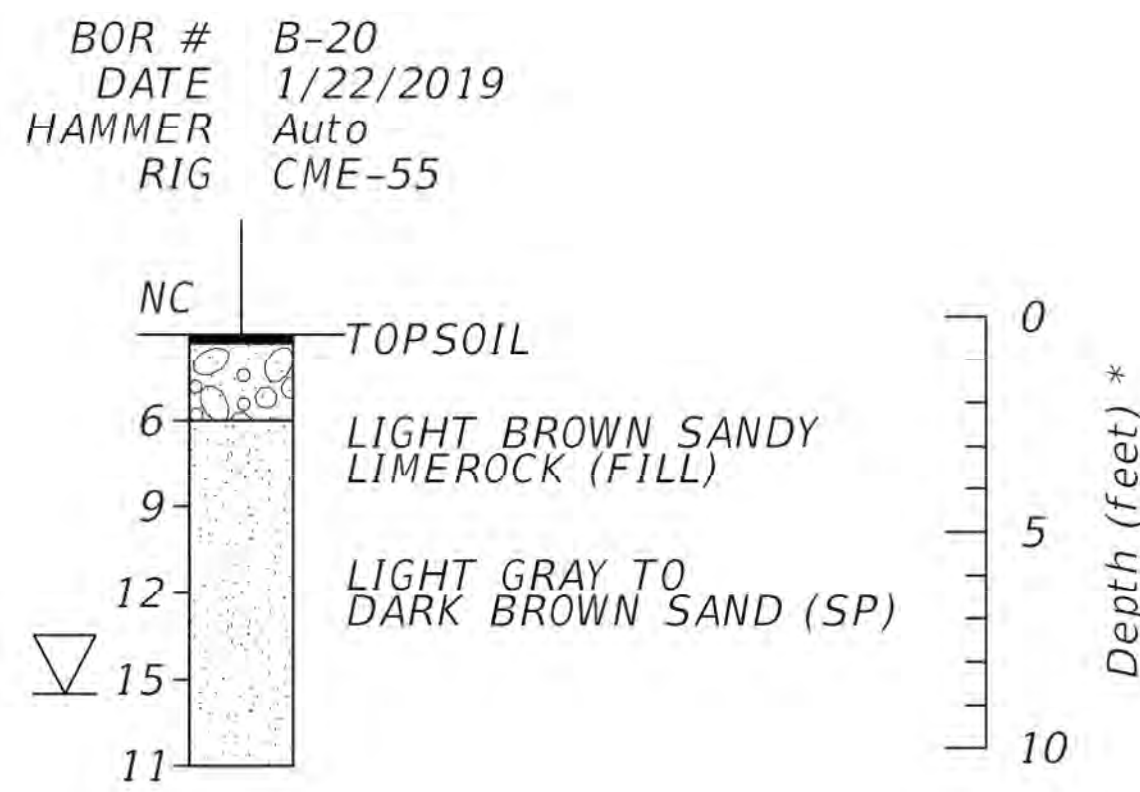
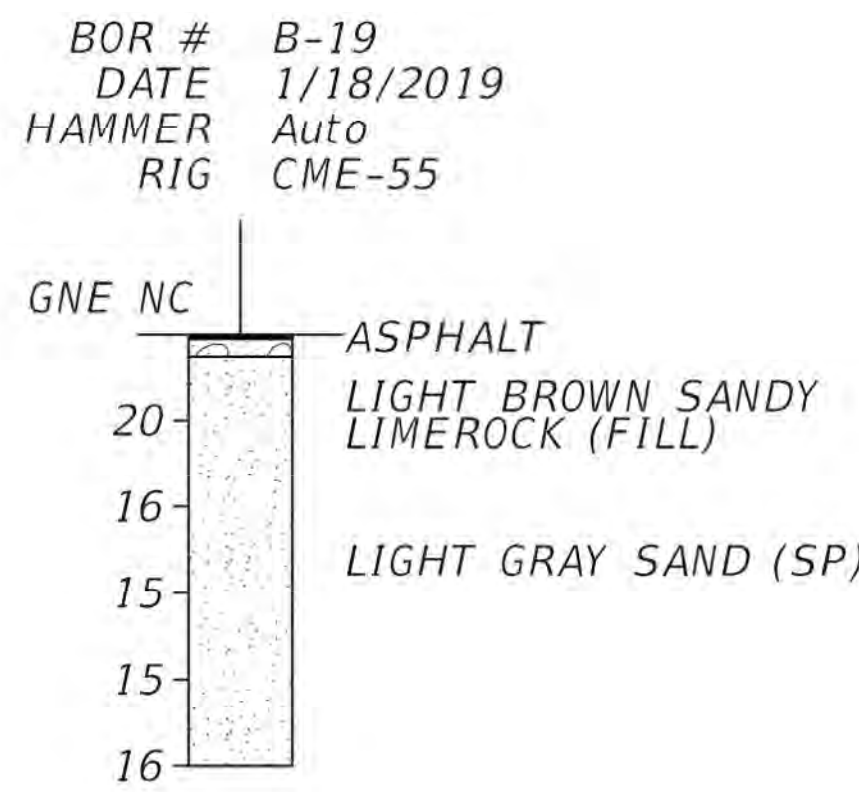
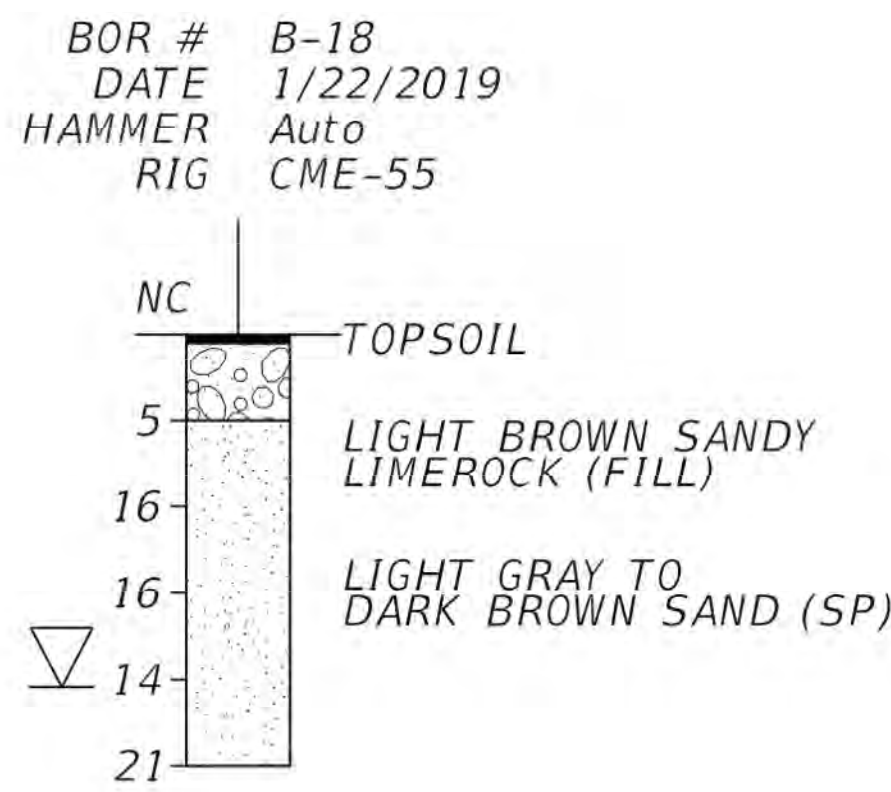
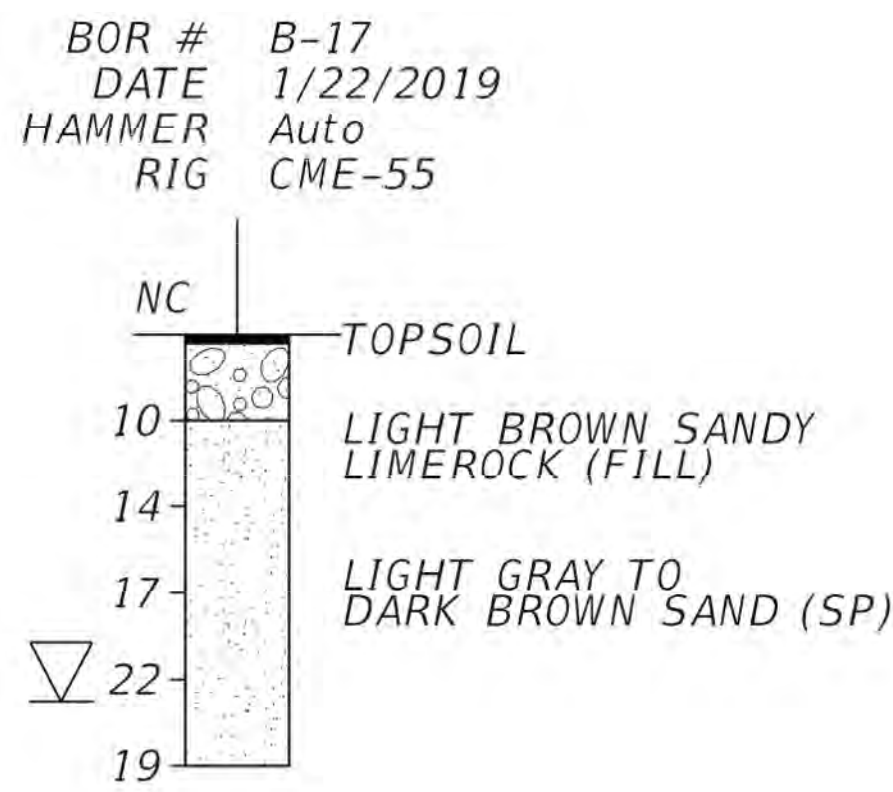
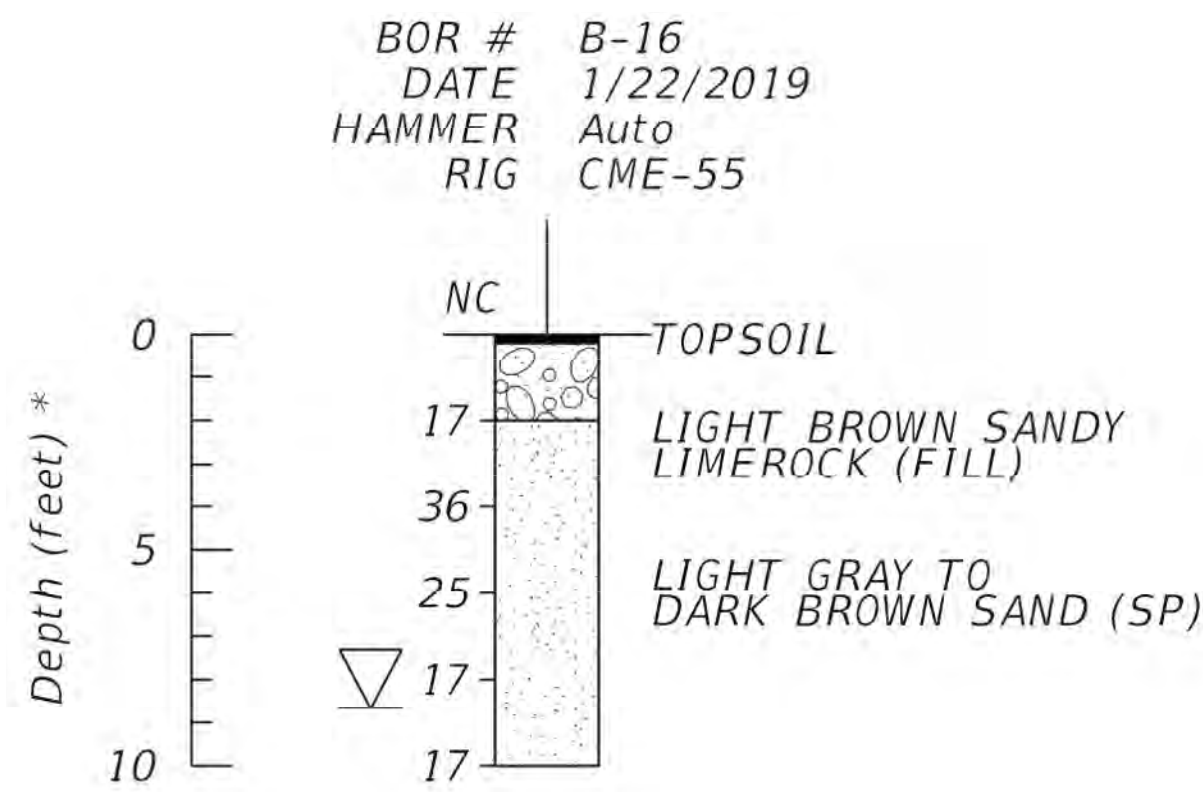
REVISIONS	NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12243
TAXIWAY FOX TROT
RELOCATION PROJECT
BORING SOIL PROFILES

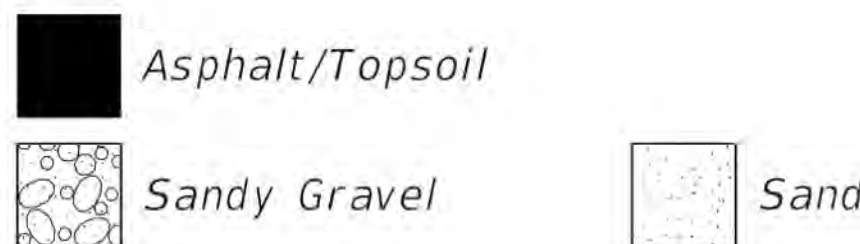
SHEET NO. OF
C69 70
TOTAL: 103
CAD FILE:
12243-MULTI-BORE
DRAWING FILE NO.
4-141-45

BID SET

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



LEGEND



NOTES

- ▽ ENCOUNTERED GROUNDWATER TABLE
- * DENOTES DEPTH IN FEET FROM EXISTING GROUND SURFACE
- N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION.
- NC NUMBERS TO THE LEFT OF BORINGS INDICATE CORRECTED SPT VALUE FOR 12" PENETRATION USING AN AUTOMATIC HAMMER CORRECTION FACTOR OF 1.24

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

CALL 48 HOURS BEFORE DIGGING

FAA FACILITIES 954-356-7212

CORING/BORING PROFILES PROVIDED BY:

Kimley-Horn
Kimley-Horn and Associates, Inc.
1920 WENONA WAY, SUITE 200, WEST PALM BEACH, FL 33411
(561) 451-9165 PHONE
(561) 451-4886 FAX

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

BID SET

ENGINEER: THOMAS F. O'DONNELL
PROJ. No: 02476
DATE:

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

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

PROJECT # 12243
TAXWAY FOX TROT
RELOCATION PROJECT
BORING SOIL PROFILES

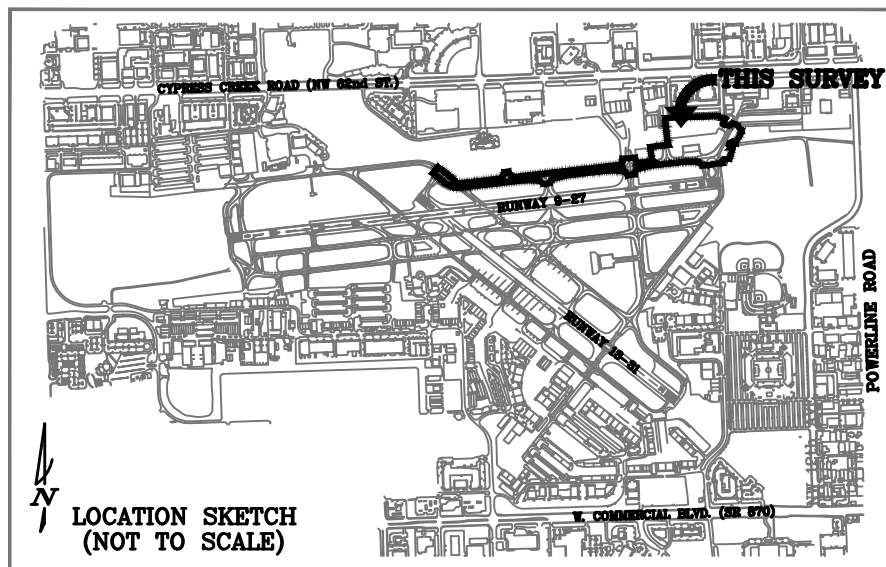
SHEET NO. C70 OF 70

TOTAL: 103

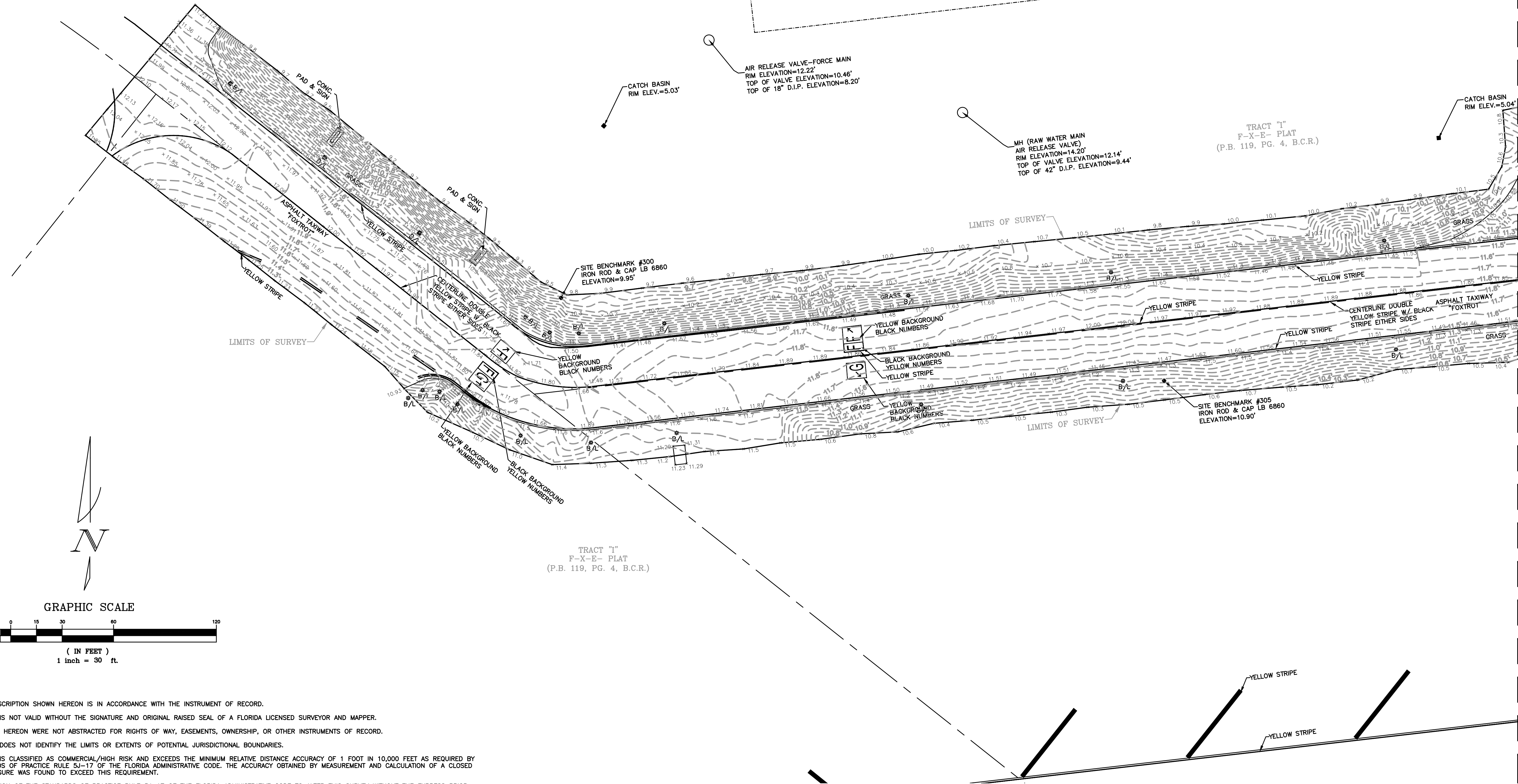
CAD FILE: 12243-MULTI-BORE

DRAWING FILE NO. 4-141-45

CAM #19-1062
Exhibit 3D - Part 4 of 4
Page 2 of 53



TRACT "I"
F-X-E- PLAT
(P.B. 119, PG. 4, B.C.R.)



TRACT "I"
F-X-E- PLAT
(P.B. 119, PG. 4, B.C.R.)

SURVEY NOTES:

1. THE LAND DESCRIPTION SHOWN HEREON IS IN ACCORDANCE WITH THE INSTRUMENT OF RECORD.
2. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
3. LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR RIGHTS OF WAY, EASEMENTS, OWNERSHIP, OR OTHER INSTRUMENTS OF RECORD.
4. THIS SURVEY DOES NOT IDENTIFY THE LIMITS OR EXTENTS OF POTENTIAL JURISDICTIONAL BOUNDARIES.
5. THIS SURVEY IS CLASSIFIED AS COMMERCIAL/HIGH RISK AND EXCEEDS THE MINIMUM RELATIVE DISTANCE ACCURACY OF 1 FOOT IN 10,000 FEET AS REQUIRED BY THE STANDARDS OF PRACTICE RULE 5J-17 OF THE FLORIDA ADMINISTRATIVE CODE. THE ACCURACY OBTAINED BY MEASUREMENT AND CALCULATION OF A CLOSED GEOMETRIC FIGURE WAS FOUND TO EXCEED THIS REQUIREMENT.
6. IT IS A VIOLATION OF THE STANDARDS OF PRACTICE RULE 5J-17 OF THE FLORIDA ADMINISTRATIVE CODE TO ALTER THIS SURVEY WITHOUT THE EXPRESS PRIOR WRITTEN CONSENT OF THE SURVEYOR. ADDITIONS AND/OR DELETIONS MADE TO THE FACE OF THIS SURVEY WILL MAKE THIS SURVEY INVALID.
7. THE INTENDED DISPLAY SCALE FOR THIS SURVEY IS 1" = 20' OR SMALLER.
8. THE HORIZONTAL LOCATIONS OF THE FEATURES SHOWN HEREON ARE RELATIVE TO NORTH AMERICAN DATUM OF 1983 WITH THE CORS96 ADJUSTMENT APPLIED (NAD 83 /CORS96) FLORIDA EAST ZONE. ALL DIMENSIONS SHOWN HEREON ARE IN U.S. SURVEY FEET AND DECIMAL FORMAT THEREOF.
9. LOCATIONS OF FEATURES SHOWN HEREON ARE TO THE CENTER OF THE SYMBOLS. THE SIZE OF SOME OF THE SYMBOLS MAY HAVE BEEN ALTERED FOR CLARITY. THE EXPECTED HORIZONTAL LOCATION ACCURACY IS ± 0.1'.
10. THE EXPECTED ACCURACY OF THE ELEVATIONS SHOWN HEREON IS 0.03' AND FOR THE HARD SURFACE SHOTS AND 0.1' FOR THE SOFT SURFACE SHOTS.
11. ELEVATIONS SHOWN HEREON ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988), BEING DERIVED FROM NATIONAL GEODETIC SURVEY MONUMENT K-235, BENCHMARK DISK, STAMPED K 235 1695, AT FORT LAUDERDALE EXECUTIVE AIRPORT, IN SECTION 16, RANGE 42 EAST, TOWNSHIP 49 SOUTH, SET ON THE TOP AND NEAR THE EAST CORNER OF THE CONCRETE FOUNDATION FOR TRACKS FOR DOORS ON THE SOUTHEAST SIDE OF THE MAIN HANGAR, 5.5 FEET SOUTHWEST OF THE EAST CORNER OF THE HANGAR AND ABOUT LEVEL WITH THE BLACKTOP AREA. ELEVATION = 10.70'. THE EXPECTED VERTICAL ACCURACY OF THE ELEVATIONS SHOWN HEREON IS ±0.03' FOR HARD SURFACES AND ±0.1' FOR SOFT SURFACES.
12. THE HORIZONTAL LOCATIONS OF THE SURVEY WORK POINTS USED TO COLLECT THE DATA SHOWN HEREON WERE ESTABLISHED USING REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING (GPS) SURVEY PROCEDURES VIA CONNECTION TO THE FLORIDA DEPARTMENT OF TRANSPORTATION'S FLORIDA PERMANENT REFERENCE NETWORK (FPRN). THE FPRN GPS NETWORK CONSISTS OF OVER 50 CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) LOCATED THROUGHOUT FLORIDA AND IS A COOPERATIVE NETWORK WITH THE NATIONAL GEODETIC SURVEY'S NATIONAL CORS NETWORK. EACH CORS SITE PROVIDES GLOBAL POSITIONING SYSTEM (GPS) CARRIER PHASE AND CODE RANGE MEASUREMENTS IN SUPPORT OF 3-DIMENSIONAL POSITIONING ACTIVITIES. FLORIDA DEPARTMENT OF TRANSPORTATION REFERENCE STATION "LAUDERDALE 2" WAS USED FOR THIS SURVEY. THE SURVEY WORK POINTS WERE OCCUPIED TWICE FOR MEASUREMENT REDUNDANCY AND CHECKED BETWEEN THEMSELVES USING A LEICA 605 TOTAL STATION INSTRUMENT. INCLUDED IN THE CONTROL NETWORK CHECK WAS FORT LAUDERDALE EXECUTIVE AIRPORT'S PRIMARY AIRPORT CONTROL POINT (PAC), "FXE A". THE HORIZONTAL RESULTS OF BOTH RTK OBSERVATIONS ON "FXE A" WERE FOUND TO BE WITHIN SUBSTANTIAL AGREEMENT OF THE PUBLISHED HORIZONTAL VALUE OF "FXE A". THE EXPECTED HORIZONTAL ACCURACY OF THE FEATURES SHOWN HEREON IS ±0.1'.
13. ALL DATA SHOWN HEREON WAS COLLECTED BY KEITH AND ASSOCIATES FOR THIS SURVEY.
14. THE PARCEL, PLAT AND TAXIWAY CENTERLINES ACCOMPANYING THIS SURVEY WERE PROVIDED BY THE CITY OF FORT LAUDERDALE.

LEGEND:

- | | |
|--------|----------------------------------|
| B.C.R. | BROWARD COUNTY RECORDS |
| B/L | BLUE LIGHT |
| CONC. | CONCRETE |
| ELEV. | ELEVATION |
| G&R/L | GREEN & RED LIGHT |
| LB | LICENSED BUSINESS |
| P.B. | PLAT BOOK |
| PG. | PAGE |
| TYP. | TYPICAL |
| W&A/L | WHITE & AMBER LIGHT |
| W/ | WITH |
| W/L | WHITE LIGHT |
| ○ | LIGHT ON 24"x24" CONC. PAD |
| ● | BENCHMARK |
| ○ | LIGHT ON 24" DIAMETER CONC. BASE |
| — | CONTOUR ELEVATION LINE |
| • | SPOT ELEVATION |
| ⊗ | SANITARY SEWER MANHOLE |
| ⊕ | SINGLE POST SIGN |
| ■ | CATCH BASIN |
| □ | VAULT |
| ⊞ | ELECTRICAL HAND HOLE |

LEGAL DESCRIPTION:

A PORTION OF TRACT "I", "F-X-E PLAT" ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 119, PAGE 4, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

CERTIFICATION:

I HEREBY CERTIFY THAT THE ATTACHED TOPOGRAPHIC SURVEY OF THE HEREON DESCRIBED PROPERTY IS DEPICTED TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THE INFORMATION AS SURVEYED UNDER MY DIRECTION ON FEBRUARY 20, 2019 MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES, SUBJECT TO THE QUALIFICATIONS NOTED HEREON.

KEITH & ASSOCIATES, INC.
CONSULTING ENGINEERS

MICHAEL M. MOSSEY
PROFESSIONAL SURVEYOR AND MAPPER
REGISTRATION NO. 5660
STATE OF FLORIDA

LAST DATE OF FIELD WORK: FEBRUARY 20, 2019

ISSUE DATE: _____



PROJECT # P12243
FORT LAUDERDALE EXECUTIVE AIRPORT
A PORTION OF TRACT "I", F-X-E PLAT
PLAT BOOK 119, PAGE 4, B.C.R.
TOPOGRAPHIC SURVEY TAXIWAY FOXTROT

SHEET NO.	OF
TS1	5
TOTAL:	103
CAD FILE:	12243-MULTI-TSRV
DRAWING FILE NO.	4-141-45

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

NO.	DATE	BY	CHK'D	DESCRIPTION

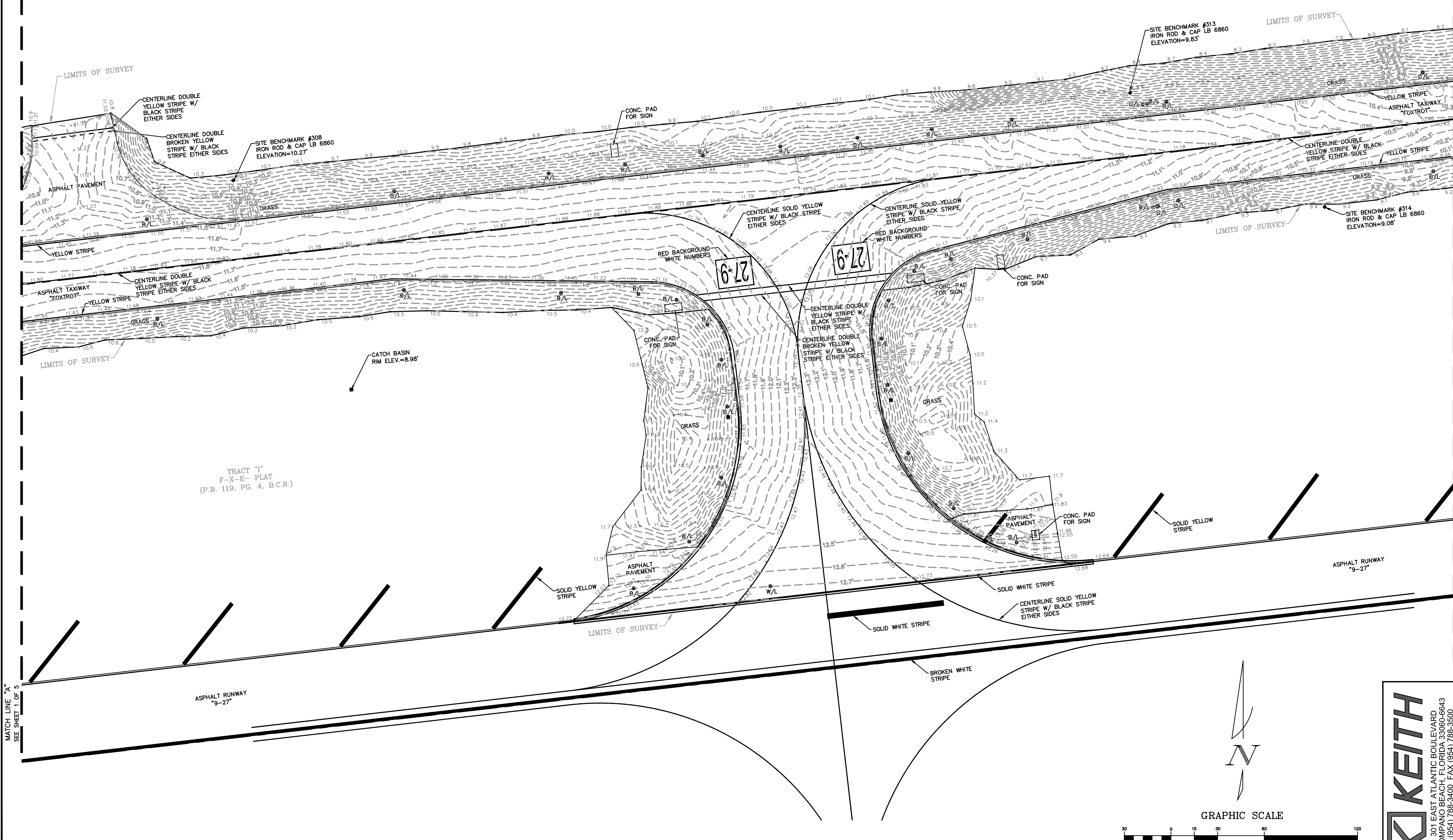
DRAWN BY:	DATE:
DOB	2/20/19
DESIGNED BY:	SCALE:
MM	1"=30'
CHECKED BY:	
MM	
FIELD BOOK:	874 09-12

MATCH LINE "A"
SEE SHEET 2 OF 5

MATCH LINE "A"
SEE SHEET 2 OF 5

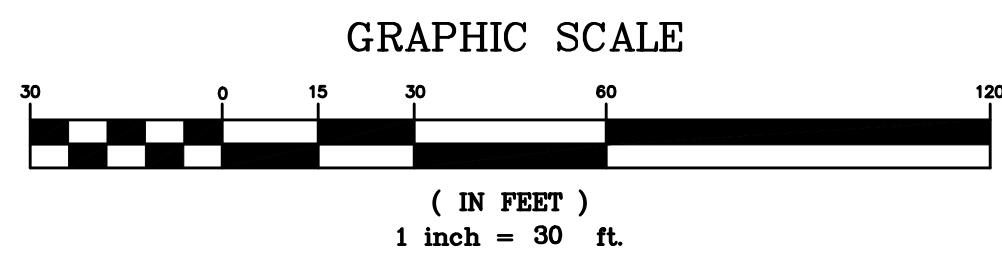
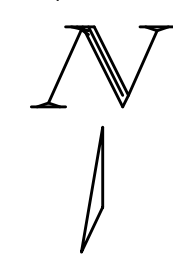
MATCH LINE "A"
SEE SHEET 1 OF 5

MATCH LINE "B"
SEE SHEET 3 OF 5



TRACT "I"
F-X-E- PLAT
(P.B. 119, PG. 4, B.C.R.)

TRACT "I"
F-X-E- PLAT
(P.B. 119, PG. 4, B.C.R.)



KEITH
301 EAST ATLANTIC BOULEVARD
POMPANO BEACH, FLORIDA 33060-6643
(954) 788-3400 FAX (954) 788-3500
EMAIL: mail@KEITHteam.com LB NO. 6860

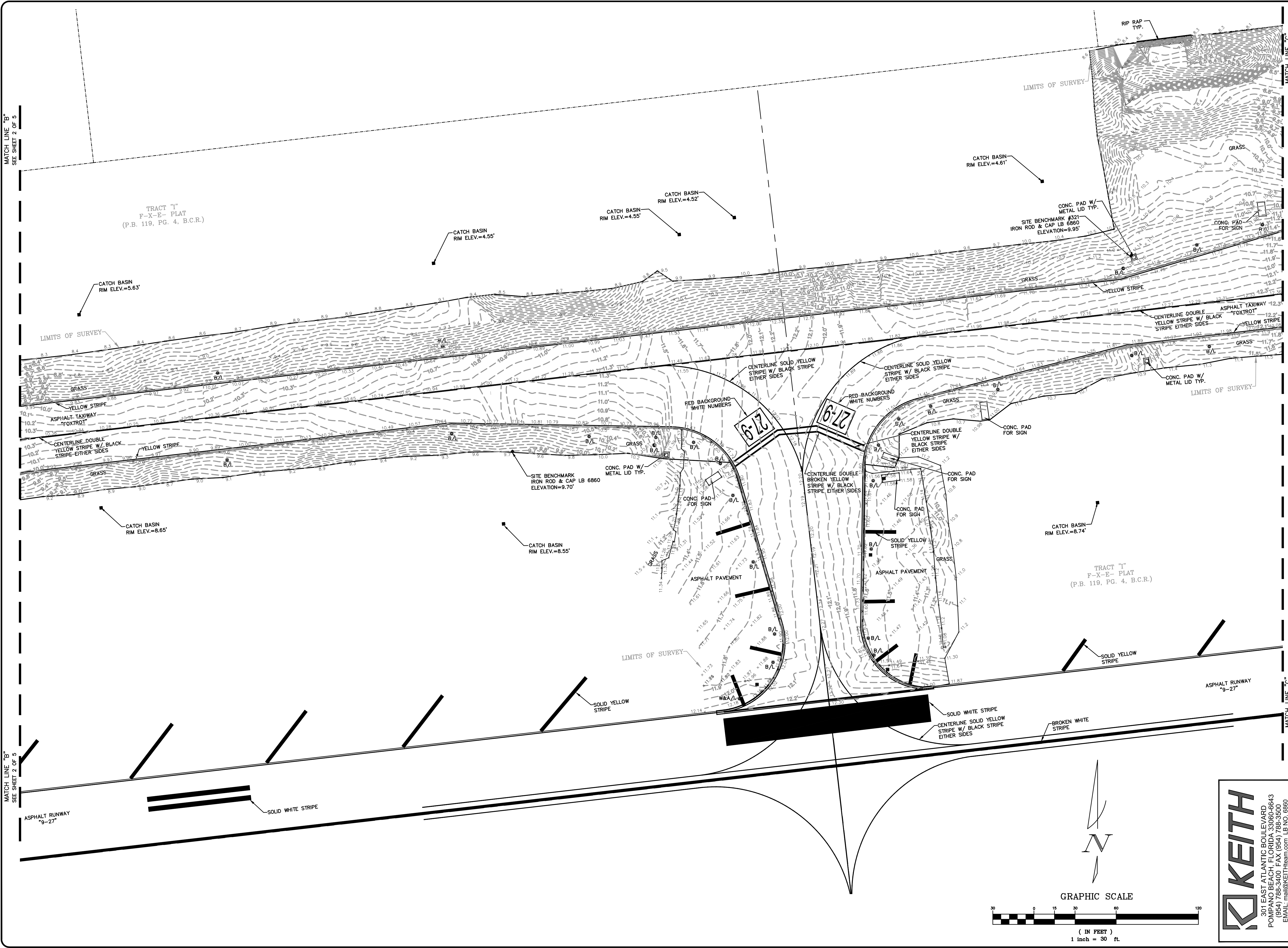
DATE:	2/20/19
DESIGNED BY:	SCALE: 1"=30'
CHECKED BY:	MM
FIELD BOOK:	874 09-12

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

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # P12243
FORT LAUDERDALE EXECUTIVE AIRPORT
A PORTION OF TRACT "I", F-X-E PLAT
PLAT BOOK 119, PAGE 4, B.C.R.
TOPOGRAPHIC SURVEY TAXIWAY FOXTROT

SHEET NO.	OF
TS2	5
TOTAL:	103
CAD FILE:	12243-MULTI-TSRV
DRAWING FILE NO.	4-141-45



DATE:	2/20/19
DESIGNED BY:	MM
CHECKED BY:	MM
FIELD BOOK:	874 09-12

NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

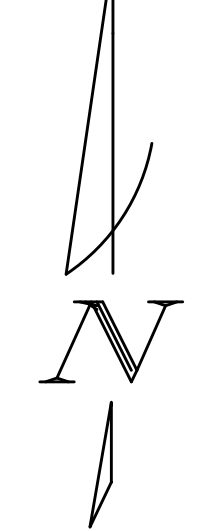
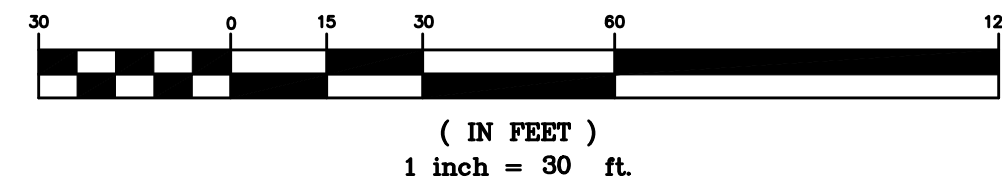
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

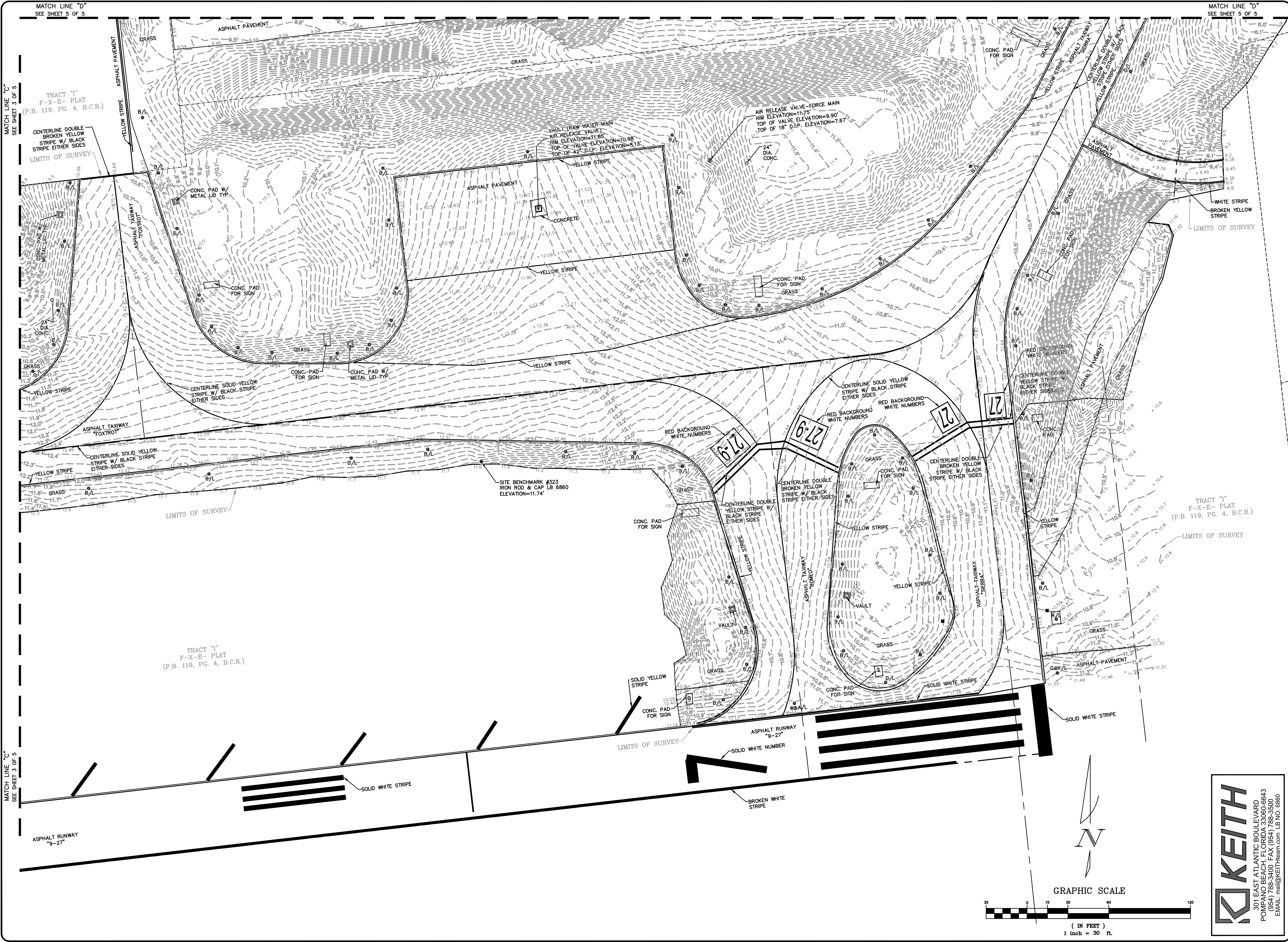
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # P12243
FORT LAUDERDALE EXECUTIVE AIRPORT
A PORTION OF TRACT "I", F-X-E PLAT
PLAT BOOK 119, PAGE 4, B.C.R.
TOPOGRAPHIC SURVEY TAXIWAY FOXTROT


SHEET NO.	OF
TS3	5
TOTAL:	103
CAD FILE:	12243-MULTI-TSRV
DRAWING FILE NO.	4-141-45

301 EAST ATLANTIC BOULEVARD
POMPANO BEACH, FLORIDA 33060-6643
(954) 788-3400 FAX (954) 788-3500
EMAIL: mail@KEITHteam.com LB NO. 6860





DRAWN BY:	DOB	DATE:	2/20/19
DESIGNED BY:	MMM	SCALE:	1"=30'
CHECKED BY:	MMM		
FIELD BOOK:			
874 09-12			



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

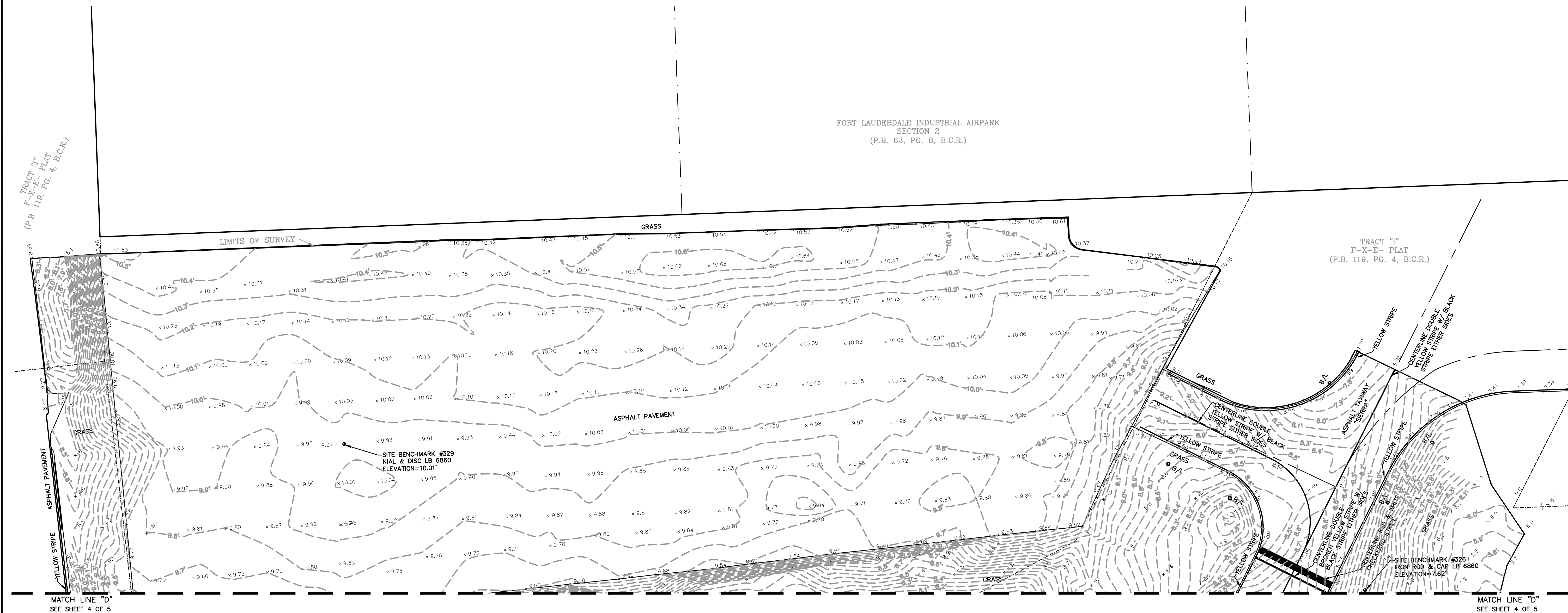
[illegible]

PROJECT # P12243
FORT LAUDERDALE EXECUTIVE AIRPORT
A PORTION OF TRACT "I", F-X-E PLAT
PLAT BOOK 119, PAGE 4, B.C.R.
TOPOGRAPHIC SURVEY TAXIWAY FOXTROT

SHEET NO.	OF
TS4	5
TOTAL: 103	
CAD FILE: 12243-MULTI-TSRV	
DRAWING FILE NO. 4-141-45	

City of Fort Lauderdale

Bid 12277-693



FORT LAUDERDALE INDUSTRIAL AIRPARK
SECTION 2
(P.B. 63, PG. 8, B.C.R.)

TRACT "I"
F-X-E- PLAT
(P.B. 119, PG. 4, B.C.R.)

SITE BENCHMARK #329
NIAL & DISC LB 6860
ELEVATION=10.01'

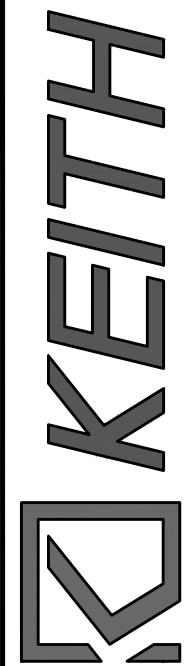
SITE BENCHMARK #326
IRON ROD & CAP LB 6860
ELEVATION=7.62'



GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.



301 EAST ATLANTIC BOULEVARD
POMPANO BEACH, FLORIDA 33060-6643
(954) 788-3400 FAX (954) 788-3500
EMAIL: mail@KEITHteam.com LB NO. 6860

DATE:	2/20/19
DRAWN BY:	DOB
DESIGNED BY:	SCALE: 1"=30'
CHECKED BY:	MM
FIELD BOOK:	874 09-12

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

NO.	DATE	BY	CH'D	DESCRIPTION

PROJECT # P12243
FORT LAUDERDALE EXECUTIVE AIRPORT
A PORTION OF TRACT "I", F-X-E PLAT
PLAT BOOK 119, PAGE 4, B.C.R.
TOPOGRAPHIC SURVEY TAXIWAY FOXTROT

SHEET NO.	OF
TS5	5
TOTAL:	103
CAD FILE:	12243-MULTI-TSRV
DRAWING FILE NO.	4-141-45

GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL COMPLETE ALL ITEMS ON THE FOLLOWING ELECTRICAL SHEETS:

A. CONTRACTOR SHALL PROVIDE AND INSTALL NEW AIRFIELD LIGHTING AND SIGNAGE SYSTEMS WITHIN THE PROJECT LIMITS COMPLETE IN PLACE, AS SHOWN ON PLANS.

B. CONTRACTOR SHALL REMOVE THE EXISTING AIRFIELD LIGHTING AND SIGNAGE SYSTEMS WITHIN THE PROJECT LIMITS, COMPLETE, AS SHOWN ON PLANS.
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR TO INSTALL THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.
3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LOCAL CODES, CITY CODES, ALL LATEST FEDERAL AVIATION ADMINISTRATION STANDARDS AND ADVISORIES, AND ALL CITY OF FORT LAUDERDALE FLORIDA BUILDING CODES.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, AND APPROVALS.
5. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE ENGINEER, RESIDENT PROJECT REPRESENTATIVE (RPR), CITY OF FORT LAUDERDALE AND FAA.
6. THE CONTRACTOR SHALL, BEFORE SUBMITTING THEIR BID, VISIT THE SITE OF THE PROJECT AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS OR FAILURE OF THE CONTRACTOR TO OBSERVE THEM.
7. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE BEFORE BIDDING WITH ALL LOCAL UTILITIES INCLUDING THE POWER, TELEPHONE, FEDERAL AVIATION ADMINISTRATION, FUEL PIPE LINES, WATER AND SEWER MAINS AND TO MEET ALL OF THEIR INSTALLATION REQUIREMENTS. ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO MEET THESE REQUIREMENTS IS TO BE INCLUDED IN THE BID. THE CONTRACTOR SHALL OBTAIN, DELIVER AND INSTALL ALL CONDUITS, PULLBOXES AND EQUIPMENT REQUIRED BY THE UTILITIES TO THEIR SPECIFICATIONS.
8. FXE REPRESENTATIVES ARE AS FOLLOWS:

CITY OF FORT LAUDERDALE AIRPORT – NICK SLAGLE – 954–828–4963

CITY OF FORT LAUDERDALE PROJECT MANAGER – FERNANDO BLANCO – 954–828–6536

FAA REPRESENTATIVE – JOSE RODRIGUEZ – 954–410–8035

AIRPORT ELECTRICAL MAINTENANCE – FRANK CHESSER – 954–828–7491
9. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH SPEC SECTION L–108. THE COUNTEROISE GROUNDING SYSTEM SHALL NOT EXCEED 25 OHMS. THE EARTH SHALL BE DRY FOR 48 HOURS PRIOR TO TESTING. GROUNDING AND BONDING SHALL NOT BE PAINTED.
10. AN EQUIPMENT GROUND WIRE SIZED PER NEC SHALL BE PULLED IN ALL AIRFIELD VAULT ELECTRICAL CONDUITS, POWER AND CONTROL, WHETHER OR NOT INDICATED ON DRAWINGS.
11. ALL EQUIPMENT SHALL BE NEW AND UNUSED, U.L. LISTED AND FAA APPROVED.
12. SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING EQUIPMENT: LIGHTING ASSEMBLIES, BASE CANS, EXTENSIONS, SPACERS, SIGNS, SPLICE KITS, CONDUITS, CABLES, TRANSFORMERS, GROUNDING AND OTHERS AS REQUESTED.
13. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL SYSTEMS AND REPAIR OR REPLACE ALL DEFECTIVE WORK TO THE SATISFACTION OF THE ENGINEER AND CITY OF FORT LAUDERDALE.
14. ALL EQUIPMENT FURNISHED AND INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF ENTIRE PROJECT.
15. COORDINATE ALL ELECTRICAL EQUIPMENT, LOCATIONS, AND POWER REQUIREMENTS AND VERIFY ALL OBSTRUCTIONS WITH ALL SUBCONTRACTORS AND EQUIPMENT SUPPLIERS PRIOR TO ANY INSTALLATION.
16. THE DRAWINGS ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT RUNS. THESE ARE TO BE COORDINATED WITH OTHER TRADES SO THAT CONFLICTS ARE AVOIDED PRIOR TO INSTALLATIONS.
17. AIRFIELD CONDUCTORS SHALL BE FAA APPROVED 5KV L–824 CABLE. GROUND CONDUCTORS SHALL BE 600V, XHHW. COUNTERPOISE SHALL BE BARE #6 SOLID COPPER UNLESS OTHERWISE INDICATED.
18. SCHEDULE 40 PVC SHALL BE USED UNDERGROUND. ALL ABOVE GROUND CONDUITS SHALL BE RIGID GALVANIZED STEEL. MINIMUM CONDUIT SIZE SHALL BE 3/4”.
19. FLEXIBLE CONDUITS SHALL BE USED TO TERMINATE ALL MOTORS AND OTHER VIBRATING EQUIPMENT AND SHALL BE BETWEEN 18” AND 3’ IN LENGTH.
20. TYPEWRITTEN PANEL SCHEDULES SHALL BE INSTALLED IN EACH PANELBOARD AND TERMINAL BLOCK SCHEDULES IN EACH CONTROL CABINET.
21. ALL REFERENCES TO A MANUFACTURER ARE GIVEN ON AN “FAA APPROVED EQUAL” BASIS.
22. ALL SPARE CONDUITS SHALL HAVE PULL STRINGS AND BE CAPPED WITH A PVC CAP.
23. ALL CIRCUITS SHALL BE IDENTIFIED IN PULL BOXES, LIGHTING FIXTURES, MANHOLES, BASE CANS, JUNCTION CANS, AND PANELBOARDS. IDENTIFICATIONS SHALL MATCH PANEL SCHEDULE.
24. EXPOSED RUNS OF CONDUITS SHALL BE INSTALLED WITH RUNS PARALLEL OR PERPENDICULAR TO WALL, STRUCTURAL MEMBERS OR INTERSECTIONS OF VERTICAL PLANES AND CEILINGS, WITH RIGHT ANGLE TURNS CONSISTING OF SYMMETRICAL BENDS OR PULL BOXES AS INDICATED ON THE DRAWINGS. BENDS AND OFFSETS SHALL BE AVOIDED WHERE POSSIBLE.
25. ALL CONDUITS PENETRATING RATED FIRE WALLS OR RATED FIRE FLOORS SHALL BE U.L. APPROVED DEVICES TO MAINTAIN THE FIRE RATING OF THE FLOOR OR WALL PENETRATED.
26. BALANCE ALL LOADS AT END OF PROJECT WITH ALL LIGHTS ON.

GENERAL INSTALLATION NOTES:

1. INFORMATION PROVIDED ON THE DRAWINGS FOR EXISTING UTILITIES, CABLES, DUCTS, MANHOLES, FIXTURES, ETC. ARE APPROXIMATE AND ARE NOT INTENDED TO PROVIDE EXACT LOCATIONS, TYPE OF COMPONENT OR MANNER OF CONSTRUCTION AND SHOULD NOT BE SCALED FROM DRAWINGS. THE LOCATION OF MANHOLES, PULL BOXES, JUNCTION CANS, ETC. ALONG WITH THE ROUTE(S) (AND IDENTIFICATION) FOR CIRCUITS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR’S RESPONSIBILITY TO VERIFY AND SATISFY HIMSELF/HERSELF AS TO THE LOCATION OF ALL UNDERGROUND FACILITIES WITHIN THE AREA OF CONSTRUCTION. THE CONTRACTOR SHALL REQUEST TO THE RPR IN WRITING FOR ALL RECORD DRAWINGS OF THE AREA IN CONSTRUCTION. THE CONTRACTOR SHALL REVIEW ALL RECORD DRAWINGS AND BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO ANY CONSTRUCTION. ALL EXISTING UTILITIES, CABLES, EQUIPMENT, DEVICES DAMAGED IN THE COURSE OF THIS CONTRACT SHALL BE IMMEDIATELY REPAIRED AT THE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE OWNER. WHERE ANY ITEM IS FOUND TO BE LOCATED DIFFERENTLY THAN IS SHOWN ON THE DRAWINGS, THE ACTUAL LOCATION SHALL BE IMMEDIATELY MEASURED AND RECORDED ON THE RECORD DRAWING.
2. VARIOUS DIRECT BURIED FAA CABLES PASS THROUGH THE WORK AREA. THESE CABLES SERVE FAA FACILITIES (NAVAIDS) WHICH ARE CRITICAL FOR SAFE AIRPORT OPERATION. IT IS OF THE UTMOST IMPORTANCE THAT DAMAGE TO THESE CABLES BE PREVENTED. CABLE LOCATIONS SHOWN ON THE DRAWINGS ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT ARE NOT INTENDED TO BE PRECISE. THE CONTRACTOR IS SPECIFICALLY WARNED AGAINST SCALING FAA CABLE LOCATIONS FROM THE APPROXIMATE DATA SHOWN ON DRAWINGS. THE CONTRACTOR SHALL KEEP THE RPR INFORMED OF HIS/HER EXCAVATION SCHEDULE AND OPERATIONS AT LEAST FIVE WORKING DAYS IN ADVANCE. THE CONTRACTOR SHALL NOTIFY THE FAA AND OTHER UTILITY COMPANIES AND REQUEST THAT THE CABLES AND UTILITIES BE STAKED IN THE FIELD. EVEN AFTER THE CABLES AND UTILITIES ARE STAKED, THE CONTRACTOR SHALL USE ELECTRONIC DETECTION DEVICES AND CAREFUL HAND EXCAVATION TO LOCATE CABLES AND UTILITIES. AFTER CABLES AND UTILITIES ARE LOCATED, CONTRACTOR SHALL SPECIFY EXACT LOCATIONS (STATIONING, OFFSET, ELEVATION, AND TYPE OF CABLE AND UTILITIES) AND SHALL BE ACCURATELY MEASURED AND RECORDED ON THE RECORD DRAWING. COPIES OF THIS MEASUREMENT AND RECORDING OF THE DATA SHALL BE CONSIDERED AN IMPORTANT PART OF THE CONTRACT REQUIREMENTS. WHEN ENCASING EXISTING FAA CABLES IN DUCT OR OTHERWISE EXCAVATING IN THEIR VICINITY, CONTRACTOR SHALL USE EXTREME CAUTION TO AVOID DAMAGING CABLES AND UTILITIES. ANY DAMAGE, EVEN IF APPEARING TO BE SUPERFICIAL, SHALL BE IMMEDIATELY REPORTED TO THE RPR.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING UTILITY COMPANIES AND FAA TO IDENTIFY AND LOCATE ANY UNDERGROUND UTILITIES AND/OR CABLE WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL ASSIST FAA/UTILITY COMPANIES IN EFFORTS TO FIELD VERIFY UNDERGROUND UTILITIES. THE CONTRACTOR SHALL REVIEW ALL AIRFIELD UTILITIES WITH AIRFIELD MAINTENANCE BEFORE BEGINNING WORK.
4. TEMPORARY WIRING SHALL BE REQUIRED TO MAINTAIN THE TAXIWAY EDGE LIGHTING SYSTEM AND RUNWAY EDGE LIGHT SYSTEMS INCLUDING LIGHTED SIGNS AND RUNWAY GUARD LIGHTS (RGLs). EDGE LIGHTING, SIGNS AND HOLD BARS TEMPORARY TAKEN OUT OF SERVICE SHALL BE RETURNED TO OPERATING CONDITION AT THE END OF EACH WORK PERIOD. CONTRACTOR SHALL PROVIDE TEMPORARY CABLES DURING CONSTRUCTION FOR TEMPORARY LIGHTS. TAXIWAY/RUNWAY EDGE LIGHTS SHALL REMAIN IN OPERATING CONDITION FOR ALL TAXIWAYS/RUNWAYS WHICH ARE OR COULD BE OPENED TO TRAFFIC AT THE END OF THE WORK PERIOD. OTHER LIGHTING SYSTEMS WITHIN THE WORK AREA, WHICH WILL BE TAKEN OUT OF SERVICE WHEN REQUIRED BY CONSTRUCTION SHALL BE RESTORED AT THE EARLIEST POSSIBLE DATE. IT IS NOT PERMISSIBLE TO ALLOW PORTIONS OF EXISTING SYSTEMS EXTENDING BEYOND THE WORK AREA TO BE AFFECTED. TEMPORARY WIRING SHALL BE PROVIDED TO MAINTAIN CONTINUITY OF AIRFIELD LIGHTING SYSTEMS, ETC. EXTENDING BEYOND THE WORK AREA.
5. TEMPORARY CABLE SHALL BE INSTALLED IN CONDUIT AND ANCHORED AT FREQUENT INTERVALS TO PREVENT MOVING. IF TEMPORARY CABLES MUST BE INSTALLED IN AREAS SUBJECT TO VEHICULAR TRAFFIC, CABLES SHALL BE INSTALLED IN RIGID GALVANIZED STEEL CONDUIT ANCHORED AT FREQUENT INTERVALS TO PREVENT MOVING. ALL TEMPORARY CABLES SHALL BE CLEARLY LABELED AND MARKED SO AS TO BE VISIBLE FROM A DISTANCE. SOME JUMPERS MAY BE OF SIGNIFICANT LENGTH, SEE PHASING PLANS FOR ADDITIONAL INFORMATION.
6. PRIOR TO WORKING ON ANY CIRCUIT, THE CONTRACTOR SHALL PROVIDE TO THE ELECTRICAL MAINTENANCE DEPARTMENT A WRITTEN LOCKOUT PROCEDURE FOR APPROVAL. THE ELECTRICAL MAINTENANCE DEPARTMENT SHALL REVIEW AND STATE FINAL LOCKOUT RULES. CONTRACTOR SHALL NOT RELY UPON DEACTIVATION OF THE CIRCUITS BY THE TOWER OR BY OTHERS. CONTRACTOR SHALL NOTIFY ELECTRICAL MAINTENANCE 48 HOURS PRIOR TO LOCKOUT/TAGOUT.
7. THERE SHALL BE NO SPLICES OF CONDUCTORS BETWEEN LIGHTS OR IN CONDUITS OR DUCTS. SPLICES SHALL BE PERMITTED IN MANHOLES, JUNCTION CANS, LIGHT BASES, AND OTHER APPROVED LOCATIONS USING L–823 CONNECTORS.
8. CONTRACTOR SHALL IDENTIFY ALL CABLES IN AFFECTED MANHOLES, JUNCTION CANS AND BASE CANS. CONTRACTOR SHALL USE A MINIMUM OF OF 1–STAINLESS STEEL TAG PER CABLE AND 1–TAG ON EACH SIDE OF A L–823 CONNECTOR.
9. WHEN CONTRACTOR IS WORKING WITH EXISTING CONDUITS, HE/SHE SHALL REMOVE ALL ABANDONED CABLES WITHIN PROJECT LIMITS AND IDENTIFY ALL ACTIVE CIRCUITS ON RECORD DRAWINGS.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL CABLE ROUTING AND CIRCUIT DESIGNATIONS ON THE RECORD DRAWINGS.
11. CONTRACTOR SHALL PROVIDE AND INSTALL CONCRETE DUCT/CABLE MARKERS AS PER FAA SPECIFICATIONS. CONTRACTOR SHALL MARK THE LOCATION OF ALL NEW DUCT BANKS WITH CONCRETE DUCT MARKERS IN UNPAVED AREAS SPACED NOT MORE THAN 200’ APART AND WITH PAINTED MARKINGS AT THE EDGE OF PAVED AREAS.
12. CONTRACTOR SHALL PROVIDE ALL CONNECTOR KITS, TESTING, STAINLESS TAGS, AND ALL INCIDENTALS THAT WILL ALLOW FOR QUALITY ASSURANCE OF SUCCESSFULLY DISCONNECTING AND RECONNECTING CIRCUITS.
13. ALL IDENTIFICATION OF CONTROL PANEL INSTALLATIONS, CONSTANT CURRENT REGULATORS, BREAKER LABELS, ETC. SHALL BE PERFORMED BY THE CONTRACTOR. THE CONTRACTOR SHALL RECORD ALL CALLOUT CHANGES ON THE “RECORD” DRAWINGS FOR THIS PROJECT.
14. NAMEPLATES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT TO IDENTIFY FUNCTION, CIRCUIT, VOLTAGE, AND PHASE. WHERE EQUIPMENT CONTAINS FUSES, INCLUDE THE FUSE RATINGS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL CABLES AND UTILITIES, THEIR DEPTHS, ETC. INCLUDING THE USE OF SOFT DIG OR OTHER MEANS AVAILABLE TO ACCURATELY LOCATE ALL CABLES AND UTILITIES AND TO SURVEY AND STAKE THOSE CABLES AND UTILITIES ON RECORD DRAWINGS PRIOR TO CONSTRUCTION.
16. ALL EXISTING CONDUCTORS SHALL BE TESTED FOR INSULATION RESISTANCE PRIOR TO WORKING ON CIRCUIT, USING A 1000V MEGOHMMETER AND SHALL BE RETURNED TO SERVICE WITH MATCHING OR BETTER INSULATION RESISTANCE READINGS. ALL PROPOSED CONDUCTORS SHALL BE TESTED FOR INSULATION RESISTANCE PRIOR TO CONNECTING TO EXISTING CIRCUIT, USING A 1000V MEGOHMMETER. CIRCUITS OR NEW PORTIONS OF CIRCUITS SHALL BE AS COMPLETE AS POSSIBLE FOR TESTING. ALL TESTING SHALL BE WITNESSED BY THE RPR AND REPORT TURNED OVER TO OWNER.
17. CONNECTION OF CONDUCTORS MUST BE MADE BY USING CRIMP CONNECTORS AND CRIMPING TOOL APPROVED BY THE CONNECTOR/LUG MANUFACTURER. THE TOOL MUST PRODUCE A COMPLETE CRIMP BEFORE IT CAN BE REMOVED. THE CRIMPING TOOL USED MUST BE LISTED BY THE L–823 KIT MANUFACTURER. MAKE THE NUMBER AND TYPE OF CRIMPS PER KIT MANUFACTURER’S INSTRUCTIONS. ELECTRICIANS THAT WILL BE MAKING CONNECTOR KIT TERMINATIONS SHALL BE TRAINED AND CERTIFIED BY THE CONNECTOR KIT MANUFACTURER.
18. THE OWNER SHALL HAVE THE RIGHT TO SALVAGE MATERIALS THAT ARE TO BE REMOVED IN THE DEMOLITION PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO DEMOLITION AND DELIVER SALVAGE MATERIAL TO THE AIRPORT ELECTRICAL MAINTENANCE.
19. ALL BOLTS FOR LIGHT FIXTURES, SIGNS, JUNCTION CANS SHALL BE CARBON STEEL COATED COLORED ORANGE AND INSTALLED PER FAA ENGINEERING BRIEF 83 AND MANUFACTURER’S RECOMMENDATIONS.
20. CONTRACTOR SHALL INSTALL NEW CARBON STEEL COATED BOLTS COLORED ORANGE IN ALL EXISTING LIGHT BASE CANS, SIGN CANS, JUNCTION CANS, JUNCTION CAN PLAZAS AND ETC., THAT THE CONTRACTOR UTILIZES TO INSTALL CABLE. ADDITIONALLY, THE CONTRACTOR SHALL DRILL AND TAP OUT ANY DAMAGED AND/OR MISSING BOLTS AT THESE LOCATIONS COST SHALL BE INCIDENTAL TO THE LINE ITEMS FOR INSTALLATION/INTERCEPTION.
21. CONTRACTOR TO USE LOCTITE LB8023 MARINE GRADE ANTI–SEIZE OR APPROVED EQUAL ON COUPLINGS AND ANY APPLICATION WHERE ANTI–SEIZE IS REQUIRED.

Kimley•Horn

Kimley-Horn and Associates, Inc.

©2018 KIMLEY-HORN AND ASSOCIATES, INC.

1620 NW 9TH WAY, SUITE 200, WEST PALM BEACH, FL 33411

TEL: 561-946-0099

404683088

HILLERS ELECTRICAL ENGINEERING, INC.

25857 STATE ROAD 7, SUITE 100

BOCA RATON, FLORIDA 33433

(561) 481-9149 PHONE

(561) 481-4888 FAX

PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL GENERAL NOTES

SHEET NO.	OF
E01	28
TOTAL:	103
CAD FILE:	12243–E01–NOTE
DRAWING FILE NO.	4–141–45

CITY OF FORT LAUDERDALE

PUBLIC WORKS DEPARTMENT

ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY:	DATE:
DEU	04-15-2019
DESIGNED BY:	SCALE:
ALC	NONE
CHECKED BY:	
JWK	
FIELD BOOK:	

State of Florida
Professional Engineer
License No. 73735

AMY L. CHAMPAGNE -
BAKER

E:\PROJECTS\KH\KH99\DWG\BID\12243–E01–NOTE.DWG

BID SET

CAM #19-1062
Exhibit 3D - Part 4 of 4
Page 8 of 53

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	NEW L-861T(L), LED, MITL, ELEVATED T/W EDGE LIGHT MOUNTED ON A NEW L-867 BASE CAN INSTALLED IN EARTH/ROCK WITH A "CORTEN" OR APPROVED EQUAL BASE PLATE WITH PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS.
	NEW L-861T(L), LED, MITL, ELEVATED T/W EDGE LIGHT MOUNTED ON A NEW L-867 BASE CAN INSTALLED IN EXISTING FULL STRENGTH PAVEMENT WITH A "CORTEN" OR APPROVED EQUAL BASE PLATE WITH PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS.
	NEW L-861T(L), LED, MITL, ELEVATED T/W EDGE LIGHT MOUNTED ON A EXISTING BASE CAN WITH PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS. CONTRACTOR SHALL DRILL AND TAP THE EXISTING BOLT HOLES IN THE EXISTING L-867 CAN. VERIFY BOLT HOLE PATTERN.
	RELOCATED L-850C(L), LED, STYLE 2, BI-DIRECTIONAL, HIRL FLUSH MOUNT RUNWAY EDGE LIGHT AND NEW L-868 12" DIA TOP SECTION MOUNTED ON EXISTING L-868 12" DIA BOTTOM SECTION BASE CAN. CORE DRILL NEW PAVEMENT OVERLAY, DRILL AND TAP THE EXISTING BOLT HOLES IN THE EXISTING L-868 BOTTOM SECTION AND PROVIDE AND INSTALL NEW EXTENSION, SPACER RING (W/DAM RING), NEW PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS. CONTRACTOR SHALL VERIFY BOLT HOLE PATTERN. W W = WHITE/WHITE LENS W Y = WHITE/YELLOW LENS
	RELOCATED L-862(L), LED, HITL, ELEVATED R/W EDGE LIGHT MOUNTED ON A NEW TELESCOPIC L-867 BASE CAN INSTALLED IN EXISTING FULL STRENGTH PAVEMENT WITH PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS. W Y = WHITE/YELLOW LENS
	NEW DIRECT BURIED SCHEDULE 40 PVC CONDUIT INSTALLED IN EARTH, COUNTERPOISE SHALL BE INSTALLED ABOVE CONDUIT PER DETAIL. SEE PLANS FOR AMOUNT/SIZE AND LOCATION OF CONDUITS.
	NEW CONCRETE ENCASED SCHEDULE 40 PVC CONDUIT INSTALLED IN NEW FULL STRENGTH PAVEMENT, COUNTERPOISE SHALL BE INSTALLED ABOVE CONDUIT PER DETAIL. SEE PLANS FOR AMOUNT/SIZE AND LOCATION OF CONDUITS.
	NEW CONCRETE ENCASED SCHEDULE 40 PVC CONDUIT INSTALLED IN EXISTING FULL STRENGTH PAVEMENT, COUNTERPOISE SHALL BE INSTALLED ABOVE CONDUIT PER DETAIL. SEE PLANS FOR AMOUNT/SIZE AND LOCATION OF CONDUITS. CONTRACTOR SHALL REPAIR PAVEMENT ACCORDINGLY.
	NEW 3/4" X 20' MIN. GROUND ROD, EXOTHERMICALLY WELDED AND CONNECTED TO COUNTERPOISE SYSTEM AT A MAX OF 500' SPACING
	2-X - 2 INDICATES NUMBER OF CONDUCTORS, X INDICATES CIRCUIT ID 1C - 1 INDICATES NUMBER OF #6 SOLID COUNTERPOISE 1W2" - 1W INDICATES ONE WAY, 2 INDICATES CONDUIT SIZE # = QUANTITY OF CONDUITS
	2-X - 2 INDICATES NUMBER OF CONDUCTORS, X INDICATES CIRCUIT ID 1W2" - 1 INDICATES NUMBER OF EXISTING CONDUITS, 2 INDICATES EXISTING CONDUIT SIZE
	NEW L-858(L), LED, SIZE 1 AIRFIELD GUIDANCE SIGN ON NEW CONCRETE BASE INSTALLED IN EARTH # = SIGN NUMBER
	NEW L-858(L), LED, SIZE 1 AIRFIELD GUIDANCE SIGN ON NEW CONCRETE BASE INSTALLED IN EXISTING FULL STRENGTH PAVEMENT # = SIGN NUMBER
	RELOCATED L-858(L), LED, SIZE 1 AIRFIELD GUIDANCE SIGN ON NEW CONCRETE BASE INSTALLED IN EARTH # = SIGN NUMBER
	NEW L-867 16" DIA X 24" DEEP JUNCTION CAN INSTALLED IN EARTH.
	NEW L-867 16" DIA X 24" DEEP BOTTOMLESS 2 CAN JUNCTION CAN PLAZA INSTALLED IN EARTH. # = JUNCTION CAN PLAZA NUMBER
	NEW L-867 16" DIA X 24" DEEP BOTTOMLESS 4 CAN JUNCTION CAN PLAZA INSTALLED IN EARTH. # = JUNCTION CAN PLAZA NUMBER
	DEMOLISH OR MODIFY ITEM, SEE NOTES FOR INFORMATION
	SEE DEMOLITION AND INSTALLATION NOTES # = INDICATES THE NOTE NUMBER Yx = INDICATES THE QUANTITY OF NOTES PER LOCATION
	ABANDONED L-867 LIGHT BASE CAN WITH NEW L-867B 1/2" THICK STEEL COVER
	EXISTING ELEVATED TAXIWAY EDGE LIGHT
	EXISTING FLUSH TAXIWAY EDGE LIGHT
	EXISTING ELEVATED RUNWAY EDGE LIGHT W W = WHITE/WHITE LENS W Y = WHITE/YELLOW LENS R G = RED/GREEN LENS
	EXISTING FLUSH MOUNTED RUNWAY EDGE LIGHT W W = WHITE/WHITE LENS W Y = WHITE/YELLOW LENS
	EXISTING AIRFIELD GUIDANCE SIGN # = SIGN NUMBER
	EXISTING JUNCTION CAN
	EXISTING LAND AND HOLD SHORT (LASHO) LIGHT
	EXISTING CONCRETE MANHOLE
	EXISTING L-867 JUNCTION CAN PLAZA.
	EXISTING CONDUIT SYSTEM
	EXISTING AIRFIELD LIGHTING DUCTBANK
	EXISTING FAA CABLE/CONDUIT
	EXISTING FPL CABLE/CONDUIT
	RUNWAY SAFETY AREA
	TAXIWAY SAFETY AREA
	TAXIWAY OBJECT FREE AREA
	EXISTING REIL UNIT
	EXISTING WINDCONE
	EXISTING ELECTRICAL PEDESTAL

DEMOLITION NOTES

- 1

CONTRACTOR SHALL REMOVE THE EXISTING TAXIWAY LIGHT BASE CAN/JUNCTION CAN, DISCONNECT THE EXISTING CIRCUITS AND REMOVE CONDUCTORS BACK TO THE LAST UNAFFECTED LOCATION. REMOVE AND DISPOSE OF THE EXISTING CONDUCTORS, TRANSFORMERS, BASE CAN AND FIXTURE. BACKFILL AND RESTORE SOD/PAVEMENT ACCORDINGLY. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. SEE PHASING PLANS FOR SEQUENCING OF WORK. THE LINE ITEM COST SHALL INCLUDE DEWATERING EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES.
- 2

CONTRACTOR SHALL DISCONNECT THE EXISTING CIRCUIT CONDUCTORS AND REMOVE BACK TO THE LAST UNAFFECTED MANHOLES/ JUNCTION CANS AND REMOVE AND DISPOSE OF THE EXISTING CONCRETE MANHOLE, COMPLETE. BACKFILL AND RESTORE SOD/PAVEMENT ACCORDINGLY. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. COORDINATE WITH PHASING PLANS FOR SEQUENCING OF WORK. THE LINE ITEM COST SHALL INCLUDE DEWATERING EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES.
- 3

CONTRACTOR SHALL DISCONNECT THE EXISTING AIRFIELD GUIDANCE SIGN FROM THE LIGHTING CIRCUIT, AND PULL BACK THE EXISTING CONDUCTORS TO THE EXISTING LIGHT FIXTURE/JUNCTION CAN/MANHOLE AND RECONNECT THE EXISTING EDGE LIGHT CONDUCTORS TO REMOVE THE SIGN FROM THE CIRCUIT. REMOVE AND DISPOSE OF THE EXISTING SIGN, CONCRETE BASE, TRANSFORMER, CONDUITS AND CABLES. BACKFILL AND RESTORE SOD/PAVEMENT ACCORDINGLY. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. COORDINATE WITH PHASING PLANS FOR SEQUENCING OF WORK. THE LINE ITEM COST SHALL INCLUDE DEWATERING EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES.
- 4

CONTRACTOR SHALL SURVEY THE EXACT LOCATION OF THE EXISTING LIGHT FIXTURE/BASE CAN PRIOR TO CONSTRUCTION AND RECORD THE LOCATION FOR FUTURE USE. REMOVE THE EXISTING LIGHT FIXTURE, CORE DRILL THE EXISTING FULL STRENGTH PAVEMENT AND REMOVE AND DISPOSE OF THE EXISTING SPACERS, EXTENSION RINGS AND TOP SECTIONS, TRANSFORMER AND PROTECT EXISTING FIXTURE DURING CONSTRUCTION FOR RE-INSTALLATION AS SHOWN ON ELECTRICAL CIRCUITRY PLANS. DRILL AND TAP OUT THE EXISTING BOLT HOLES TO REMOVE ANY DAMAGED BOLTS FROM THE EXISTING BASE CAN BOTTOM SECTION. PROVIDE AND INSTALL TEMPORARY L-868 STEEL COVER ON THE EXISTING BOTTOM SECTION ALONG WITH A MUD PLATE AND BACKFILL ACCORDINGLY. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. SEE THE PHASING PLANS FOR SEQUENCING OF WORK. THE LINE ITEM COST SHALL INCLUDE DEWATERING OF EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES.
- 5

CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING LIGHT FIXTURE AND TRANSFORMER. DRILL AND TAP OUT THE EXISTING BOLT HOLES TO REMOVE ANY DAMAGED BOLTS FROM THE EXISTING BASE CAN, PROVIDE AND INSTALL NEW LIGHT FIXTURE AND TRANSFORMER AS SHOWN ON THE ELECTRICAL CIRCUITRY PLANS. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. SEE THE PHASING PLANS FOR SEQUENCING OF WORK. THE LINE ITEM COST SHALL INCLUDE DEWATERING OF EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES.
- 6

CONTRACTOR SHALL REMOVE THE EXISTING TAXIWAY LIGHT, DISCONNECT THE EXISTING CIRCUITS AND REMOVE CONDUCTORS BACK TO THE LAST UNAFFECTED LOCATION. CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING CONDUCTORS, TRANSFORMERS, AND FIXTURE. EXISTING BASE CAN TO REMAIN AND BE ABANDONED IN PLACE. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW L-867B 1/2" THICK STEEL COVER. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. SEE THE PHASING PLANS FOR SEQUENCING OF WORK. THE LINE ITEM COST SHALL INCLUDE DEWATERING EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES.
- 7

CONTRACTOR SHALL DISCONNECT THE EXISTING AIRFIELD GUIDANCE SIGN FROM THE LIGHTING CIRCUIT, AND PULL BACK THE EXISTING CONDUCTORS TO THE EXISTING LIGHT FIXTURE/JUNCTION CAN/MANHOLE AND RECONNECT THE EXISTING EDGE LIGHT CONDUCTORS TO REMOVE THE SIGN FROM THE CIRCUIT. REMOVE AND DISPOSE OF THE EXISTING SIGN, TRANSFORMER, CONDUITS AND CABLES AND ABANDONED CONCRETE BASE. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. COORDINATE WITH PHASING PLANS FOR SEQUENCING OF WORK. THE LINE ITEM COST SHALL INCLUDE DEWATERING EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES.
- 8

CONTRACTOR SHALL DISCONNECT THE EXISTING AIRFIELD GUIDANCE SIGN FROM THE LIGHTING CIRCUIT, AND PULL BACK THE EXISTING CONDUCTORS TO THE EXISTING LIGHT FIXTURE/JUNCTION CAN/MANHOLE AND RECONNECT THE EXISTING EDGE LIGHT CONDUCTORS TO REMOVE THE SIGN FROM THE CIRCUIT. REMOVE AND DISPOSE OF THE EXISTING CONCRETE BASE, TRANSFORMER, CONDUITS AND CABLES AND RELOCATE SIGN TO NEW LOCATION AS SHOWN ON PLANS. BACKFILL AND RESTORE SOD/PAVEMENT ACCORDINGLY. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. COORDINATE WITH PHASING PLANS FOR SEQUENCING OF WORK. THE LINE ITEM COST SHALL INCLUDE DEWATERING EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES.
- 9

CONTRACTOR SHALL SURVEY THE EXACT LOCATION OF THE EXISTING LIGHT FIXTURE/BASE CAN PRIOR TO CONSTRUCTION AND RECORD THE LOCATION FOR FUTURE USE. REMOVE THE EXISTING LIGHT FIXTURE, CORE DRILL THE EXISTING FULL STRENGTH PAVEMENT AND REMOVE AND DISPOSE OF THE EXISTING SPACERS, EXTENSION RINGS AND BASE CAN, TRANSFORMER AND PROTECT EXISTING FIXTURE DURING CONSTRUCTION FOR RE-INSTALLATION AS SHOWN ON ELECTRICAL CIRCUITRY PLANS. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. SEE THE PHASING PLANS FOR SEQUENCING OF WORK. THE LINE ITEM COST SHALL INCLUDE DEWATERING OF EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES.

INSTALLATION NOTES:

- 1

CONTRACTOR SHALL HAND EXCAVATE, CORE DRILL THE EXISTING JUNCTION CAN/BASE CAN AND PROVIDE AND INSTALL NEW CONDUIT AND CONDUCTOR SYSTEM, COMPLETE. SEAL, PATCH AND REPAIR JUNCTION CAN/BASE CAN, BACKFILL AND SOD ACCORDINGLY AND MAKE ALL NECESSARY CONNECTIONS FOR A COMPLETE WORKING SYSTEM IN PLACE.
- 2

CONTRACTOR SHALL HAND EXCAVATE, LOCATE, INTERCEPT AND EXTEND EXISTING CONDUIT SYSTEM TO NEW LIGHT BASE/JUNCTION CAN/SIGN. CLEAN OUT AND DEWATER THE EXISTING CONDUIT SYSTEM. CONTRACTOR SHALL INCLUDE DEWATERING IN THE LINE ITEM COST FOR THE INTERCEPTION OF THE CONDUIT SYSTEM.
- 3

CONTRACTOR SHALL IDENTIFY AND INTERCEPT THE EXISTING CIRCUIT CONDUCTORS IN THE EXISTING BASE CAN/MANHOLE/JUNCTION CAN AND PROVIDE AND INSTALL NEW SPLICE KITS AND EXTEND THE NEW CIRCUIT CONDUCTORS ACCORDINGLY. MAKE ALL NECESSARY CONNECTIONS FOR A COMPLETE WORKING SYSTEM IN PLACE.
- 4

CONTRACTOR SHALL REMOVE THE EXISTING "FC" HOMERUN CONDUCTORS BACK TO AIRFIELD VAULT REGULATOR. REMOVE EXISTING IDENTIFICATION MARKER AND PROVIDE AND INSTALL A NEW "BLANK" IDENTIFICATION MARKER AT EACH JUNCTION CAN PLAZA ACCORDINGLY. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM FOR IDENTIFICATION OF CABLES DUCTBANKS AND LIGHTING FIXTURES PER FAA SPECIFICATIONS.

Junction Can Identification with Future Circuit ID				
JCP ID	1	2	3	4
JCP-17	FE	FW	SP	SP
JCP-18	FE	FW	SP	SP
JCP-19	FE	SP		
JCP-20	FE	SP		
JCP-21	FE	SP	SP	SP
JCP-22	FE	SP	SP	SP
JCP-23	FE	SP		
JCP-24	FE	SP		
JCP-25	FE	SP		
JCP-26	FE	SP		
JCP-27	FE	SP	SP	SP
JCP-28	FE	SP	SP	SP
JCP-29	FE	SP		
JCP-30	FE	SP		
JCP-31	FE	SP	SP	SP
JCP-32	FE	SP	SP	SP
JCP-33	FE	SP	SP	SP
JCP-34	FE	SP	SP	SP
SP = SPARE CODUIT				

CIRCUIT ID:	TYPE OF CABLE	CABLE JACKET COLOR
FE = TAXIWAY FOXTROT EAST CIRCUIT	#8, L-824, 5KV CABLE	BLACK
FW = TAXIWAY FOXTROT WEST CIRCUIT	#8, L-824, 5KV CABLE	BLACK
9E = RUNWAY 9-27 EAST CIRCUIT	#8, L-824, 5KV CABLE	RED/BLACK

Kimley-Horn
Kimley-Horn and Associates, Inc.
©2019 KIMLEY-HORN AND ASSOCIATES, INC.
1920 NORTON WAY, SUITE 200, WEST PALM BEACH, FL 33411
FIDIC No. CA 00000096
044693088

HILLERS ELECTRICAL ENGINEERING, INC.
25557 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33498
(561) 451-5145 PHONE
(561) 451-4555 FAX

State of Florida
Professional Engineer
License No. 73735

DATE: 04-15-2019
DESIGNED BY: DEU
SCALE: NONE
CHECKED BY: JWK
FIELD BOOK: 33301

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

City of Fort Lauderdale

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHKD

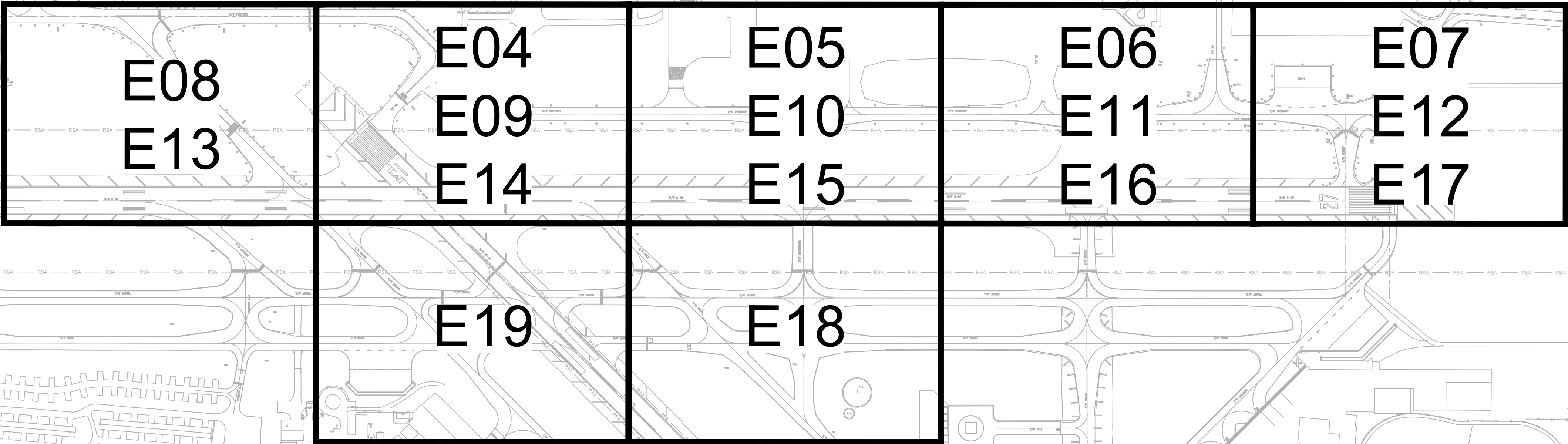
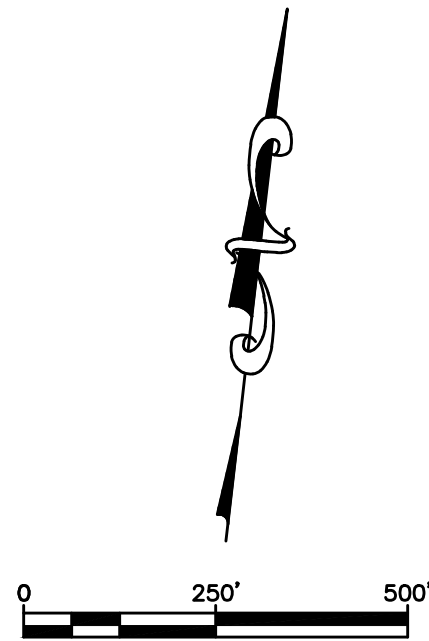
PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL LEGEND, DEMOLITION &
INSTALLATION NOTES

SHEET NO.	OF
E02	28
TOTAL:	103
CAD FILE:	12243-E02-LEGD
DRAWING FILE NO.	4-141-45

BID SET

CAM #19-1062
Exhibit 3D - Part 4 of 4
Page 9 of 53

E:\PROJECTS\KH\KH99\DWG\12243-BID\12243-E03-KMAP.DWG



**Kimley-Horn**
Kimley-Horn and Associates, Inc.
©2019 KIMLEY-HORN AND ASSOCIATES, INC.
1620 NW 10th Way, Suite 200, West Palm Beach, FL 33411
P.O. Box 1000000
044683088


**HILLERS ELECTRICAL
ENGINEERING, INC.**
25257 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33433
(561) 451-9149 PHONE
(561) 451-4888 FAX

BID SET

PROJECT # 12243
TAXWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL KEY MAP

SHEET NO.	OR
E03	28
TOTAL:	103
CAD FILE:	12243-E03-KMAP
DRAWING FILE NO.	4-141-45

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHK'D

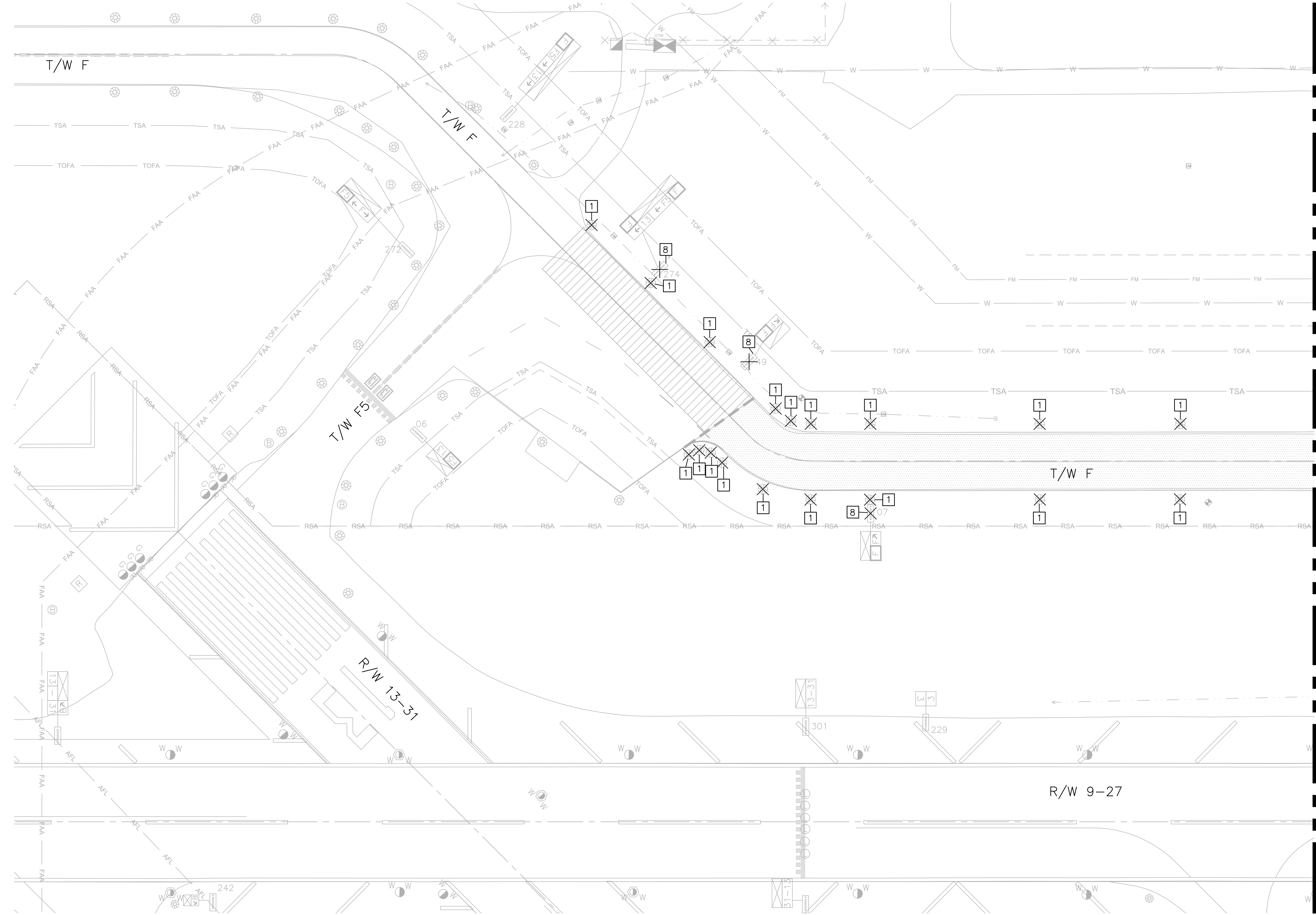
**CITY OF FORT LAUDERDALE**
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY:	DATE:
DEU	04-15-2019
DESIGNED BY:	SCALE:
ALC	1" = 200'
CHECKED BY:	
JWK	
FIELD BOOK:	

State of Florida
Professional Engineer
License No. 73735

AMY L. CHAMPAGNE -
BAKER

E:\PROJECTS\KH\KH99\DWG\12243-MULTI-ELC1.DWG



LEGEND

- ASPHALT PAVEMENT MILL. REFER TO PAVEMENT GEOMETRY PLANS
- REMOVE EXISTING ASPHALT AND LIMEROCK BASE COURSE AS REQUIRED FOR NEW TYPICAL SECTION
- REMOVE EXISTING CONCRETE

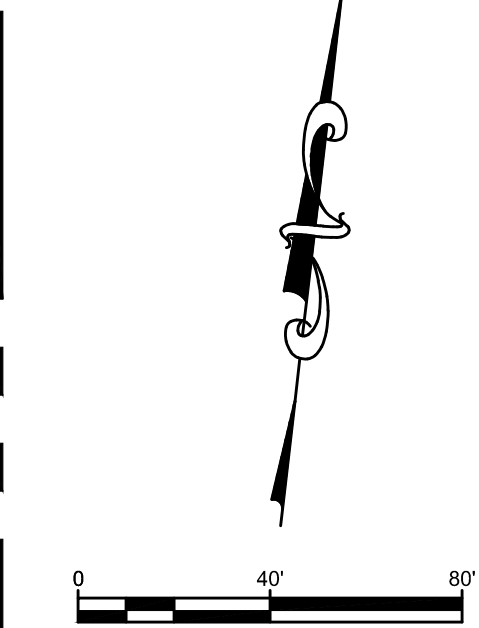
NOTES:

1. SEE SHEET E02 FOR ELECTRICAL DEMOLITION NOTES DESCRIPTIONS.

WARNING!!! THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRAVERSING THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

Kimley-Horn
Kimley-Horn and Associates, Inc.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33498
(561) 481-9148 PHONE
(561) 481-4888 FAX
FIDIC NO. CA-0000000000
04/08/2008

CALL 48 HOURS BEFORE YOU DIG
811
IT'S THE LAW! Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.
CALL 48 HOURS BEFORE DIGGING
FAA FACILITIES 954-356-7212



MATCH LINE SEE SHEET E05

BID SET

PROJECT # 12243
TAXWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL DEMOLITION PLAN

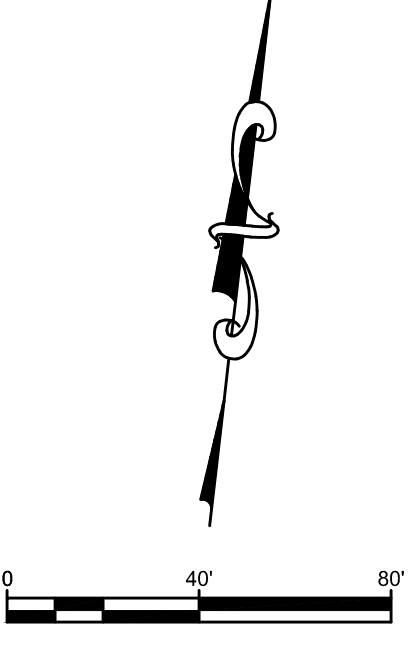
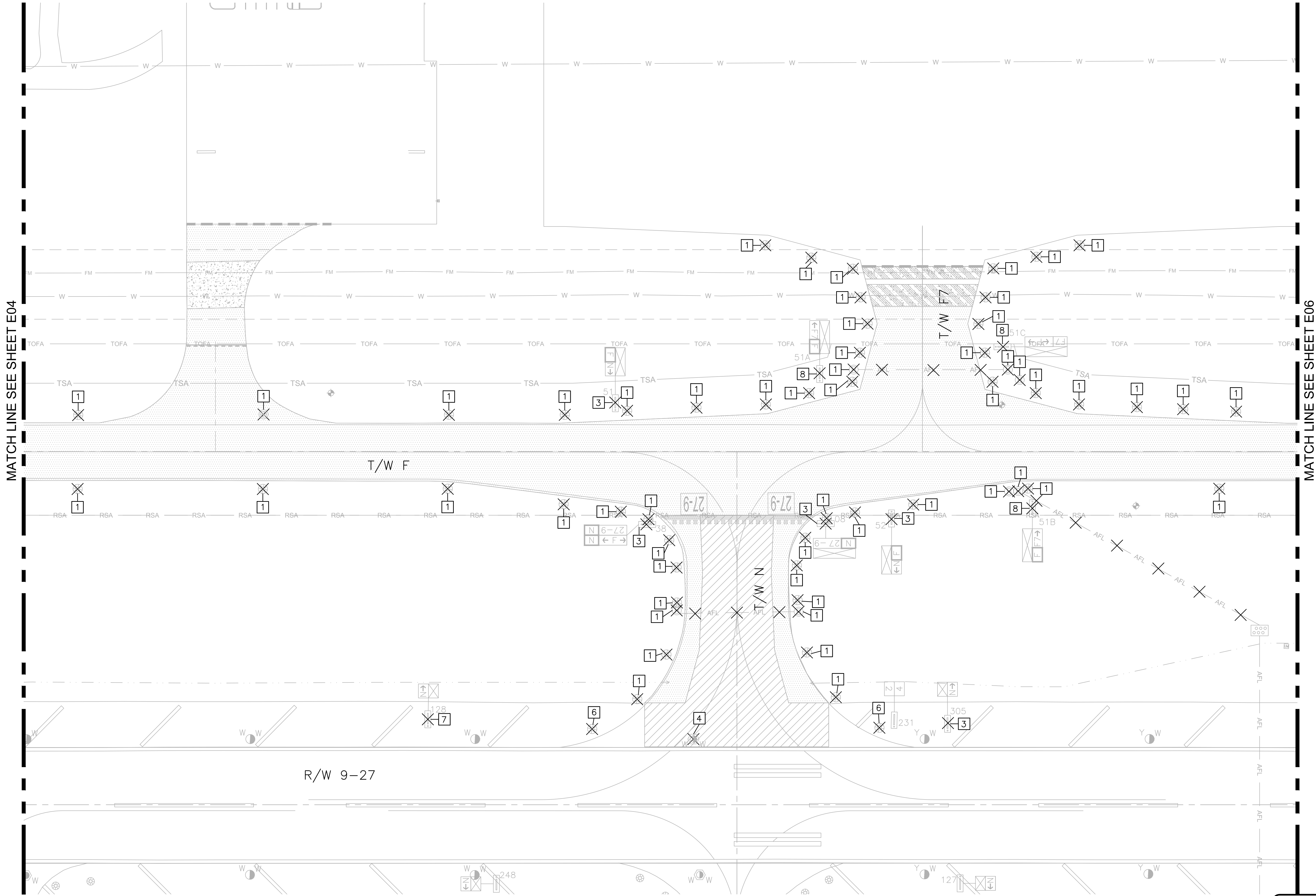
SHEET NO.
E04 28
TOTAL: 103
CAD FILE: 12243-MULTI-ELC1
DRAWING FILE NO. 4-141-45

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

DRAWN BY: DEU
DESIGNED BY: ALC
CHECKED BY: JWK
FIELD BOOK:

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE - BAKER

REVISIONS		DESCRIPTION
NO.	DATE	



LEGEND

- ASPHALT PAVEMENT MILL. REFER TO PAVEMENT GEOMETRY PLANS
- REMOVE EXISTING ASPHALT AND LIMEROCK BASE COURSE AS REQUIRED FOR NEW TYPICAL SECTION
- REMOVE EXISTING CONCRETE

NOTES:

1. SEE SHEET E02 FOR ELECTRICAL DEMOLITION NOTES DESCRIPTIONS.

WARNING!!! THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRAVERSING THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

Kimley-Horn
Kimley-Horn and Associates, Inc.
22857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33488
(561) 481-9148 PHONE
(561) 481-4888 FAX

HILLERS ELECTRICAL ENGINEERING, INC.
22857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33488
(561) 481-9148 PHONE
(561) 481-4888 FAX

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
SUNSHINE STATE ONE CALL OF FLORIDA, INC.
CALL 48 HOURS BEFORE DIGGING
FAA FACILITIES 954-356-7212

State of Florida
Professional Engineer
License No. 73735

AMY L. CHAMPAGNE -
BAKER

DRAWN BY: DEU
DESIGNED BY: ALC
CHECKED BY: JWK
FIELD BOOK:

DATE: 04-15-2019
SCALE: 1' = 40'

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

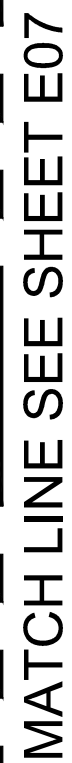
REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHK'D




PROJECT # 12243
TAXWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL DEMOLITION PLAN

SHEET NO.
E05 28

TOTAL: 103
CAD FILE: 12243-MULTI-ELC1
DRAWING FILE NO. 4-141-45

BID SET



	ASPHALT PAVEMENT MILL. REFER TO PAVEMENT GEOMETRY PLANS
	REMOVE EXISTING ASPHALT AND LIMEROCK BASE COURSE AS REQUIRED FOR NEW TYPICAL SECTION
	REMOVE EXISTING CONCRETE

1. SEE SHEET E02 FOR ELECTRICAL DEMOLITION
NOTES DESCRIPTIONS.

WARNING!!! WARNING!!! WARNING!!!

THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRaversING THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.



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

PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL DEMOLITION PLAN

SHEET NO.	
E06	28
TOTAL:	103
CAD FILE: 12243-MULTI-ELC1	
DRAWING FILE NO. 4-141-45	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

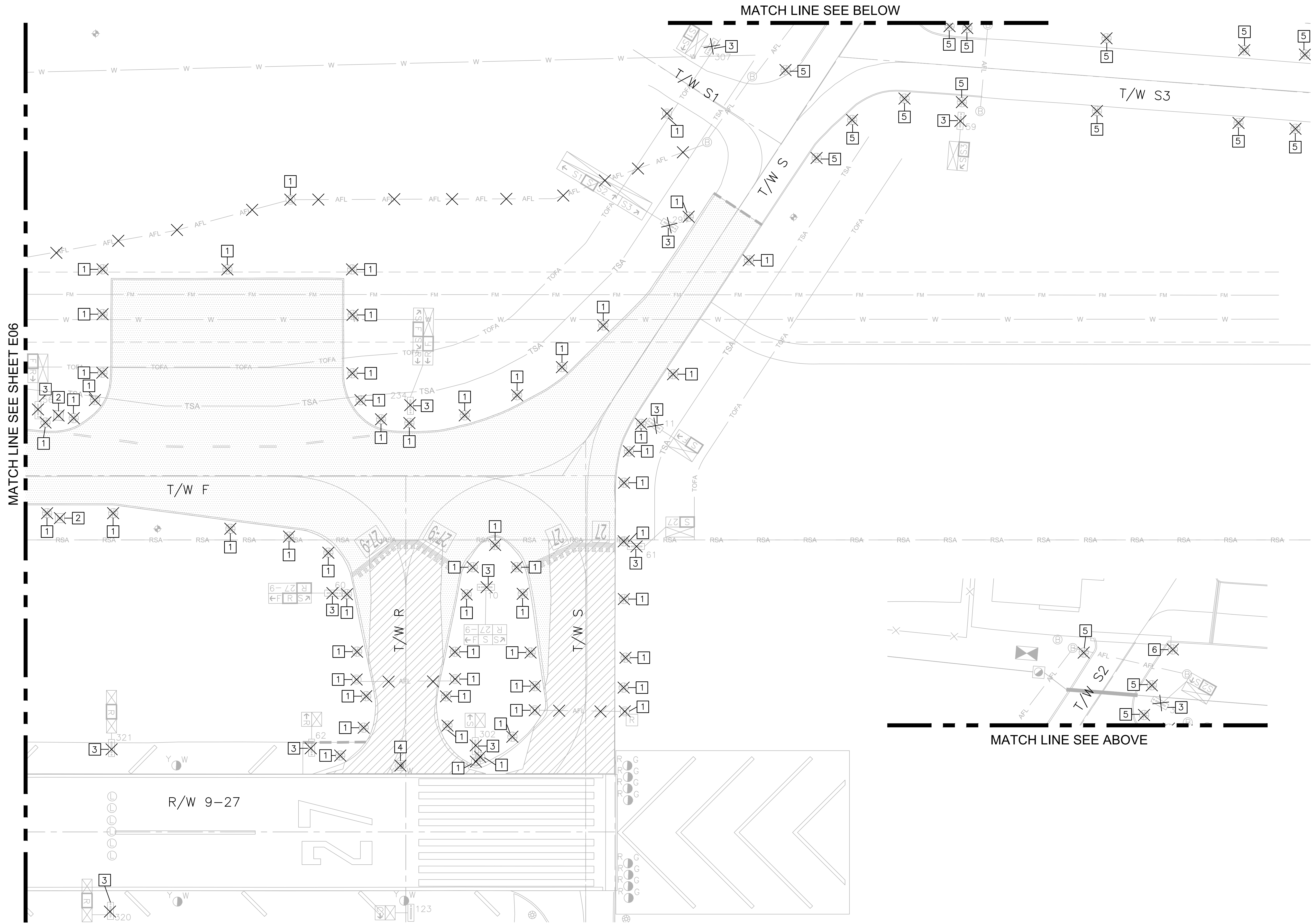
State of Florida
Professional Engineer
License No. 73735

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

AMY L. CHAMPAGNE -
BAKER

City of Fort Lauderdale

090-11771 NID



LEGEND

- ASPHALT PAVEMENT MILL. REFER TO PAVEMENT GEOMETRY PLANS
- REMOVE EXISTING ASPHALT AND LIMEROCK BASE COURSE AS REQUIRED FOR NEW TYPICAL SECTION
- REMOVE EXISTING CONCRETE

NOTES:

- SEE SHEET E02 FOR ELECTRICAL DEMOLITION NOTES DESCRIPTIONS.

WARNING!!! THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRaversing THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.
CALL 48 HOURS BEFORE DIGGING
FAA FACILITIES 954-356-7212

Kimley-Horn
Kimley-Horn and Associates, Inc.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33498
(561) 481-9149 PHONE
(561) 481-4888 FAX

HILLERS ELECTRICAL ENGINEERING, INC.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33498
(561) 481-9149 PHONE
(561) 481-4888 FAX

BID SET

PROJECT # 12243
TAXWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL DEMOLITION PLAN

SHEET NO.	E07 28
TOTAL:	103
CAD FILE:	12243-MULTI-ELC1
DRAWING FILE NO.	4-141-45

NO.	DATE	BY	CHKD	REVISIONS	DESCRIPTION

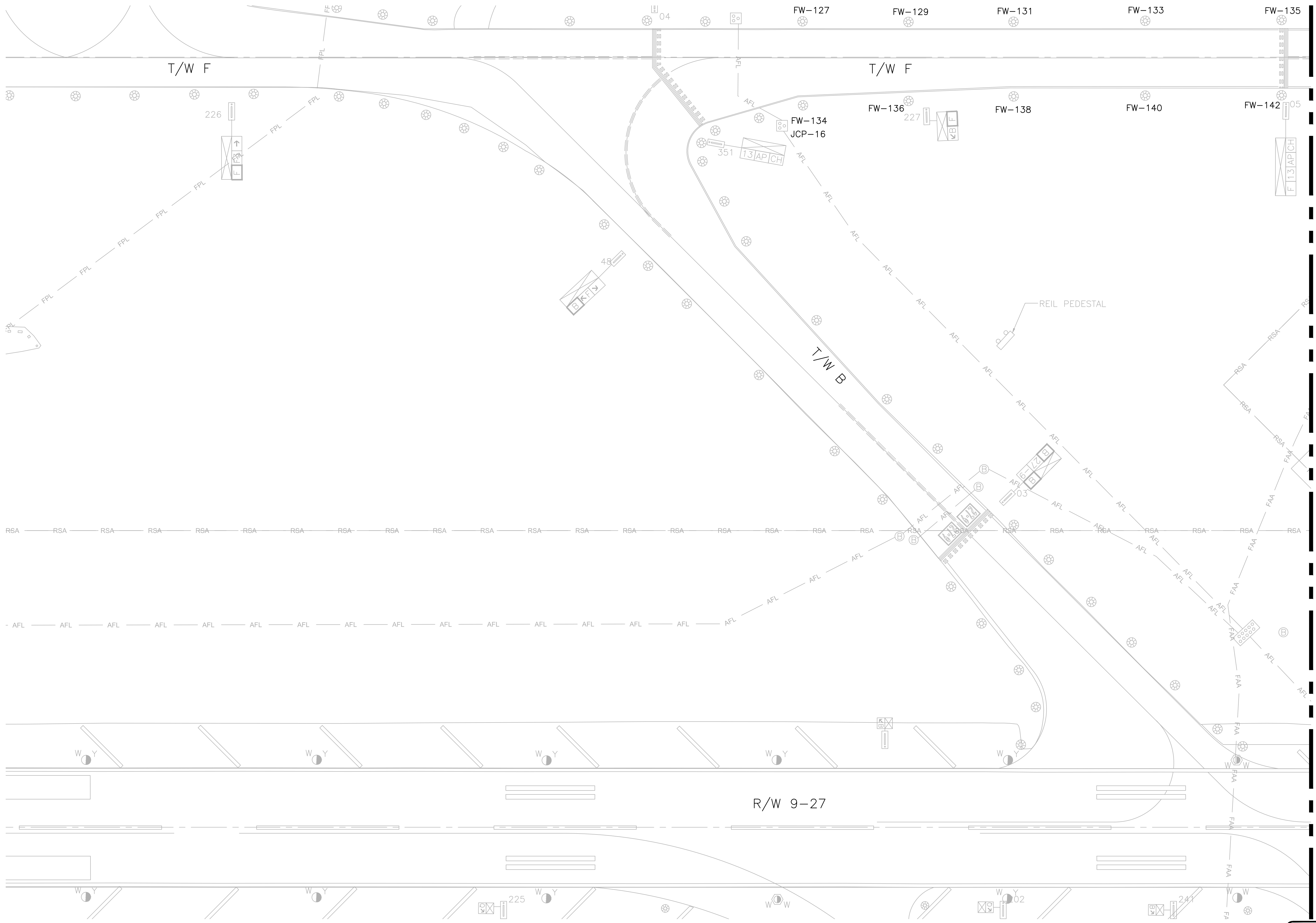
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY:	DEU	DATE:	04-15-2019
DESIGNED BY:	ALC	SCALE:	1" = 40'
CHECKED BY:	JWK	FIELD BOOK:	

State of Florida
Professional Engineer
License No. 73735

AMY L. CHAMPAGNE -
BAKER

E:\PROJECTS\KH\KH99\DWG\12243-MULTI-ELC2.DWG



NOTES:

1. REFER TO TYPICAL TAXIWAY EDGE LIGHT CONFIGURATION DETAIL FOR LAYOUT AND INSTALLATION INFORMATION OF NEW EDGE LIGHTS AND BASE CANS.
2. PT AND IP LOCATIONS ARE PER GEOMETRY PLAN.
3. CONTRACTOR SHALL UTILIZE EQUAL SPACING, IP(s) AND PT(s) FOR THE LIGHTING LAYOUT.
4. TYPICAL NEW SIGN OFFSET TO BE INSTALLED AT 15' FROM EDGE OF FULL STRENGTH PAVEMENT UNLESS NOTED OTHERWISE. SEE SIGN DETAIL AND NOTES FOR ADDITIONAL INFORMATION.

5. FIXTURE INSTALLED AT A 2' OFFSET FROM APRON EDGE OF PAVEMENT.
6. TAXIWAY EDGE LIGHT NOT INSTALLED AT IP LOCATED CLOSEST TO RUNWAY. TAXIWAY EDGE LIGHT TO BE INSTALLED 3' BEHIND RUNWAY EDGE LIGHT OFFSET.

CONTRACTOR SHALL REMOVE THE EXISTING JUNCTION CAN PLAZA AND TAXIWAY EDGE LIGHT IDENTIFICATION MARKERS AND CABLE TAGS FOR JUNCTION CAN PLAZAS AND EDGE LIGHTS SHOWN WITH NEW IDENTIFICATION NUMBERS ON LAYOUT PLANS AND PROVIDE AND INSTALL NEW IDENTIFICATION MARKERS AND CABLE TAGS ACCORDINGLY. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM FOR IDENTIFICATION OF CABLES DUCTBANKS AND LIGHTING FIXTURES PER FAA SPECIFICATIONS.

8. FIXTURE INSTALLED AT A 10' OFFSET FROM RUNWAY THRESHOLD/EDGE LIGHT.

WARNING!!!
THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRaversing THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

WARNING!!!
THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRaversing THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

WARNING!!!
THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRaversing THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

Kimley-Horn
Kimley-Horn and Associates, Inc.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33433
(561) 481-9148 PHONE
(561) 481-4888 FAX
FIDIC No. CA-000000000
04/08/2008

HILLERS ELECTRICAL
ENGINEERING, INC.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33433
(561) 481-9148 PHONE
(561) 481-4888 FAX
FIDIC No. CA-000000000
04/08/2008

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW!
DIAL 811
Know what's below.
Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.
CALL 48 HOURS BEFORE DIGGING
FAA FACILITIES 954-356-7212

BID SET

PROJECT # 12243
TAXIWAY FOX TROT
RELOCATION PROJECT
ELECTRICAL LAYOUT PLAN

SHEET NO.	E08	28
TOTAL:	103	
CAD FILE:	12243-MULTI-ELC2	
DRAWING FILE NO.	4-141-45	

NO.	DATE	BY	CHK'D	REVISIONS	DESCRIPTION

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

DATE: 04-15-2019
DESIGNED BY: ALC
CHECKED BY: JWK
FIELD BOOK:

State of Florida
Professional Engineer
License No. 73735

AMY L. CHAMPAGNE -
BAKER

MATCH LINE SEE SHEET E08

MATCH LINE SEE SHEET E10

NOTES:

1. REFER TO TYPICAL TAXIWAY EDGE LIGHT CONFIGURATION DETAIL FOR LAYOUT AND INSTALLATION INFORMATION OF NEW EDGE LIGHTS AND BASE CANS.
2. PT AND IP LOCATIONS ARE PER GEOMETRY PLAN.
3. CONTRACTOR SHALL UTILIZE EQUAL SPACING, IP(S) AND PT(S) FOR THE LIGHTING LAYOUT.
4. TYPICAL NEW SIGN OFFSET TO BE INSTALLED AT 15' FROM EDGE OF FULL STRENGTH PAVEMENT UNLESS NOTED OTHERWISE. SEE SIGN DETAIL AND NOTES FOR ADDITIONAL INFORMATION.

5. FIXTURE INSTALLED AT A 2' OFFSET FROM APRON EDGE OF PAVEMENT.
6. TAXIWAY EDGE LIGHT NOT INSTALLED AT IP LOCATED CLOSEST TO RUNWAY. TAXIWAY EDGE LIGHT TO BE INSTALLED 3' BEHIND RUNWAY EDGE LIGHT OFFSET.

CONTRACTOR SHALL REMOVE THE EXISTING JUNCTION CAN PLAZA AND TAXIWAY EDGE LIGHT IDENTIFICATION MARKERS AND CABLE TAGS FOR JUNCTION CAN PLAZAS AND EDGE LIGHTS SHOWN WITH NEW IDENTIFICATION NUMBERS ON LAYOUT PLANS AND PROVIDE AND INSTALL NEW IDENTIFICATION MARKERS AND CABLE TAGS ACCORDINGLY. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM FOR IDENTIFICATION OF CABLES DUCTBANKS AND LIGHTING FIXTURES PER FAA SPECIFICATIONS.

8. FIXTURE INSTALLED AT A 10' OFFSET FROM RUNWAY THRESHOLD/EDGE LIGHT.

WARNING!!!
THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRAVERSING THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
SUNSHINE STATE ONE CALL OF FLORIDA, INC.
CALL 48 HOURS BEFORE DIGGING
FAA FACILITIES 954-356-7212

Kimley-Horn
Kimley-Horn and Associates, Inc.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33498
(561) 481-6146 PHONE
(561) 481-6886 FAX

HILLERS ELECTRICAL
ENGINEERING, INC.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33498
(561) 481-6146 PHONE
(561) 481-6886 FAX

BID SET

PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL LAYOUT PLAN

SHEET NO.
E09 28
TOTAL: 103
CAD FILE: 12243-MULTI-ELC2
DRAWING FILE NO. 4-141-45

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHK'D

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

DRAWN BY: DEU
DESIGNED BY: ALC
CHECKED BY: JWK
FIELD BOOK: 33301

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

MATCH LINE SEE SHEET E09

MATCH LINE SEE SHEET E11

NOTES:

1. REFER TO TYPICAL TAXIWAY EDGE LIGHT CONFIGURATION DETAIL FOR LAYOUT AND INSTALLATION INFORMATION OF NEW EDGE LIGHTS AND BASE CANS.
2. PT AND IP LOCATIONS ARE PER GEOMETRY PLAN.
3. CONTRACTOR SHALL UTILIZE EQUAL SPACING, IP(S) AND PT(S) FOR THE LIGHTING LAYOUT.
4. TYPICAL NEW SIGN OFFSET TO BE INSTALLED AT 15' FROM EDGE OF FULL STRENGTH PAVEMENT UNLESS NOTED OTHERWISE. SEE SIGN DETAIL AND NOTES FOR ADDITIONAL INFORMATION.

5. FIXTURE INSTALLED AT A 2' OFFSET FROM APRON EDGE OF PAVEMENT.
6. TAXIWAY EDGE LIGHT NOT INSTALLED AT IP LOCATED CLOSEST TO RUNWAY. TAXIWAY EDGE LIGHT TO BE INSTALLED 3' BEHIND RUNWAY EDGE LIGHT OFFSET.
- CONTRACTOR SHALL REMOVE THE EXISTING JUNCTION CAN PLAZA AND TAXIWAY EDGE LIGHT IDENTIFICATION MARKERS AND CABLE TAGS FOR JUNCTION CAN PLAZAS AND EDGE LIGHTS SHOWN WITH NEW IDENTIFICATION NUMBERS ON LAYOUT PLANS AND PROVIDE AND INSTALL NEW IDENTIFICATION MARKERS AND CABLE TAGS ACCORDINGLY. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM FOR IDENTIFICATION OF CABLES DUCTBANKS AND LIGHTING FIXTURES PER FAA SPECIFICATIONS.
8. FIXTURE INSTALLED AT A 10' OFFSET FROM RUNWAY THRESHOLD/EDGE LIGHT.

WARNING!!!
THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRaversing THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.
CALL 48 HOURS BEFORE DIGGING
FAA FACILITIES 954-356-7212

Kimley-Horn
Kimley-Horn and Associates, Inc.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33433
(561) 481-5145 PHONE
(561) 481-4886 FAX
FIDIC No. CA 000000000
04/08/2008

HILLERS ELECTRICAL
ENGINEERING, INC.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33433
(561) 481-5145 PHONE
(561) 481-4886 FAX
FIDIC No. CA 000000000
04/08/2008

BID SET

PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL LAYOUT PLAN

SHEET NO.
E10 28
TOTAL: 103
CAD FILE:
12243-MULTI-ELC2
DRAWING FILE NO.
4-141-45

DRAWN BY: DEU
DESIGNED BY: ALC
CHECKED BY: JWK
FIELD BOOK:

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER

DATE: 04-15-2019
SCALE: 1" = 40'

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33



1. REFER TO TYPICAL TAXIWAY EDGE LIGHT CONFIGURATION DETAIL FOR LAYOUT AND INSTALLATION INFORMATION OF NEW EDGE LIGHTS AND BASE CANS.
2. PT AND IP LOCATIONS ARE PER GEOMETRY PLAN.
3. CONTRACTOR SHALL UTILIZE EQUAL SPACING, IP(s) AND PT(s) FOR THE LIGHTING LAYOUT.
4. TYPICAL NEW SIGN OFFSET TO BE INSTALLED AT 15' FROM EDGE OF FULL STRENGTH PAVEMENT UNLESS NOTED OTHERWISE. SEE SIGN DETAIL AND NOTES FOR ADDITIONAL INFORMATION.

7. CONTRACTOR SHALL REMOVE THE EXISTING JUNCTION CAN PLAZA AND TAXIWAY EDGE LIGHT IDENTIFICATION MARKERS AND CABLE TAGS FOR JUNCTION CAN PLAZAS AND EDGE LIGHTS SHOWN WITH NEW IDENTIFICATION NUMBERS ON LAYOUT PLANS AND PROVIDE AND INSTALL NEW IDENTIFICATION MARKERS AND CABLE TAGS ACCORDINGLY. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM FOR IDENTIFICATION OF CABLES DUCTBANKS AND LIGHTING FIXTURES PER FAA SPECIFICATIONS.

8. FIXTURE INSTALLED AT A 10' OFFSET FROM RUNWAY THRESHOLD/EDGE LIGHT

WARNING!!! WARNING!!! WARNING!!!
THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRAVERSING THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS BEEN ADVISED BY THE FAA THAT THE APPROXIMATE LOCATION OF ALL ITEMS, HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE TO ANY OF THE ABOVE LISTED ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

**CALL 48 HOURS
BEFORE YOU DIG**

**IT'S THE LAW!
DIAL 811**

**Know what's below.
Call before you dig.**

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

CALL 48 HOURS BEFORE DIGGING
FAA FACILITIES 954-356-7212

Kimley-Horn
Kimley-Horn and Associates, Inc.
© 2016 KIMLEY-HORN AND ASSOCIATES, INC.
1920 WENNA WAY, SUITE 200, WEST PALM BEACH, FL 33411
FSPE No. CA 00000996

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

BID SET

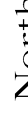
PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL LAYOUT PLAN

SHEET NO.	
E11	28
TOTAL:	103
CAD FILE:	
12243-MULTI-ELC2	
DRAWING FILE NO.	
4-141-45	

State of Florida
Professional Engineer
License No. 73735

AMY L. CHAMPAGNE -
PAVED

DRAWN BY: DEU	DATE: 04-15-2019
DESIGNED BY: ALC	SCALE: 1' = 40'
CHECKED BY: JWK	
FIELD BOOK:	



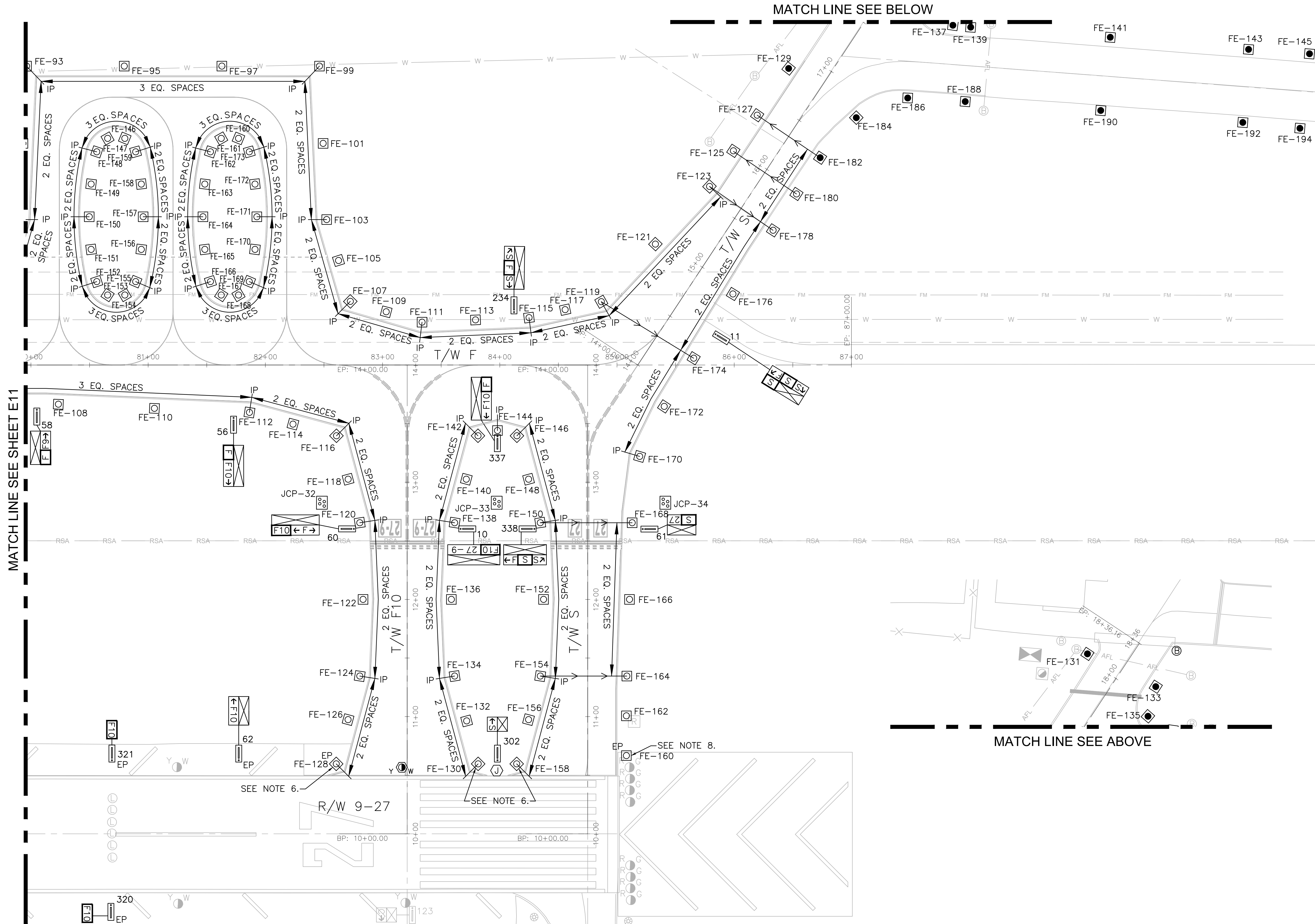
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

[illegible]

City of Fort Lauderdale

090-11771 019

MATCH LINE SEE SHEET E11



NOTES:

1. REFER TO TYPICAL TAXIWAY EDGE LIGHT CONFIGURATION DETAIL FOR LAYOUT AND INSTALLATION INFORMATION OF NEW EDGE LIGHTS AND BASE CANS.
2. PT AND IP LOCATIONS ARE PER GEOMETRY PLAN.
3. CONTRACTOR SHALL UTILIZE EQUAL SPACING, IP(S) AND PT(S) FOR THE LIGHTING LAYOUT.
4. TYPICAL NEW SIGN OFFSET TO BE INSTALLED AT 15' FROM EDGE OF FULL STRENGTH PAVEMENT UNLESS NOTED OTHERWISE. SEE SIGN DETAIL AND NOTES FOR ADDITIONAL INFORMATION.

5. FIXTURE INSTALLED AT A 2' OFFSET FROM APRON EDGE OF PAVEMENT.
6. TAXIWAY EDGE LIGHT NOT INSTALLED AT IP LOCATED CLOSEST TO RUNWAY. TAXIWAY EDGE LIGHT TO BE INSTALLED 3' BEHIND RUNWAY EDGE LIGHT OFFSET.
- CONTRACTOR SHALL REMOVE THE EXISTING JUNCTION CAN PLAZA AND TAXIWAY EDGE LIGHT IDENTIFICATION MARKERS AND CABLE TAGS FOR JUNCTION CAN PLAZAS AND EDGE LIGHTS SHOWN WITH NEW IDENTIFICATION NUMBERS ON LAYOUT PLANS AND PROVIDE AND INSTALL NEW IDENTIFICATION MARKERS AND CABLE TAGS ACCORDINGLY. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM FOR IDENTIFICATION OF CABLES DUCTBANKS AND LIGHTING FIXTURES PER FAA SPECIFICATIONS.
8. FIXTURE INSTALLED AT A 10' OFFSET FROM RUNWAY THRESHOLD/EDGE LIGHT.

WARNING!!!
THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRAVERSING THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.
CALL 48 HOURS BEFORE DIGGING
FAA FACILITIES 954-356-7212

Kimley-Horn
Kimley-Horn and Associates, Inc.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33498
(561) 481-6146 PHONE
(561) 481-6886 FAX
FIDIC No. CA-000000000
04/08/2008

HILLERS ELECTRICAL
ENGINEERING, INC.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33498
(561) 481-6146 PHONE
(561) 481-6886 FAX

BID SET

PROJECT # 12243
TAXIWAY FOXROT
RELOCATION PROJECT
ELECTRICAL LAYOUT PLAN

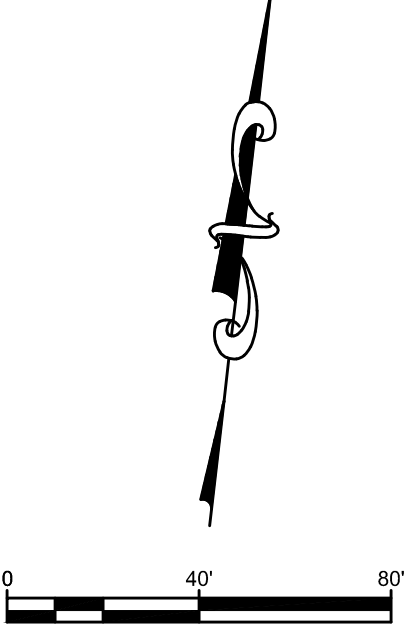
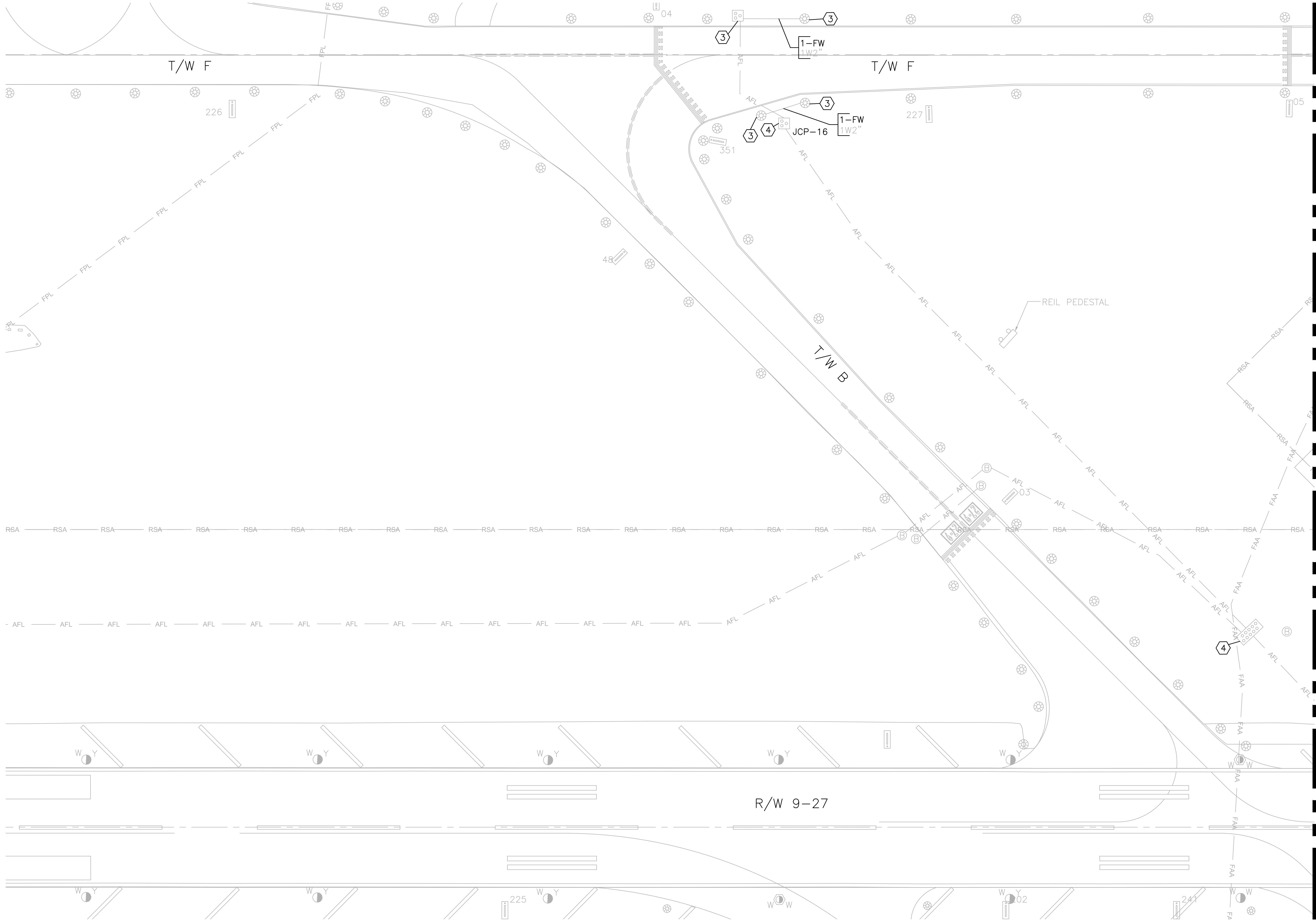
SHEET NO.
E12 28
TOTAL: 103
CAD FILE: 12243-MULTI-ELC2
DRAWING FILE NO. 4-141-45

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHK'D

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

DRAWN BY: DEU
DESIGNED BY: ALC
CHECKED BY: JWK
FIELD BOOK:
DATE: 04-15-2019
SCALE: 1" = 40'

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE-BAKER



MATCH LINE SEE SHEET E14

NOTES:
1. SEE SHEET E02 FOR ELECTRICAL INSTALLATION NOTES DESCRIPTIONS.

WARNING!!!
THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRAVERSING THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

CALL 48 HOURS BEFORE YOU DIG

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

CALL 48 HOURS BEFORE DIGGING
FAA FACILITIES 954-356-7212

Kimley-Horn
Kimley-Horn and Associates, Inc.
© 2018 KIMLEY-HORN AND ASSOCIATES, INC.
1200 WOODLAND WAY, SUITE 200, WEST PALM BEACH, FL 33411
PHONE: 561-833-0888 FAX: 561-833-0889

HILLERS ELECTRICAL ENGINEERING, INC.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33433
(561) 481-9149 PHONE
(561) 481-4888 FAX

State of Florida
Professional Engineer
License No. 73735

AMY L. CHAMPAGNE -
BAKER

DRAWN BY: DEU
DESIGNED BY: ALC
CHECKED BY: JWK
FIELD BOOK:

DATE: 04-15-2019
SCALE: 1' = 40'

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

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHK'D

PROJECT # 12243
TAXWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL CIRCUITRY PLAN

SHEET NO.	12243-MULTI-ELC3
TOTAL:	103
CAD FILE:	12243-MULTI-ELC3
DRAWING FILE NO.	4-141-45

BID SET

MATCH LINE SEE SHEET E13



MATCH LINE SEE SHEET E15

1. SEE SHEET E02 FOR ELECTRICAL INSTALLATION
NOTES DESCRIPTIONS.

WARNING!!! WARNING!!! WARNING!!!

THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRAVERSING THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF THESE ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

811
w what's **below.**
Call before you dig

CALL 48 HOURS BEFORE DIGGING
FAA FACILITIES 954-356-7212

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

BID SET

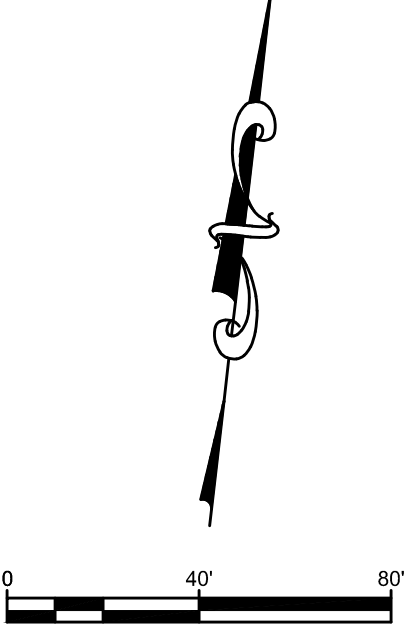
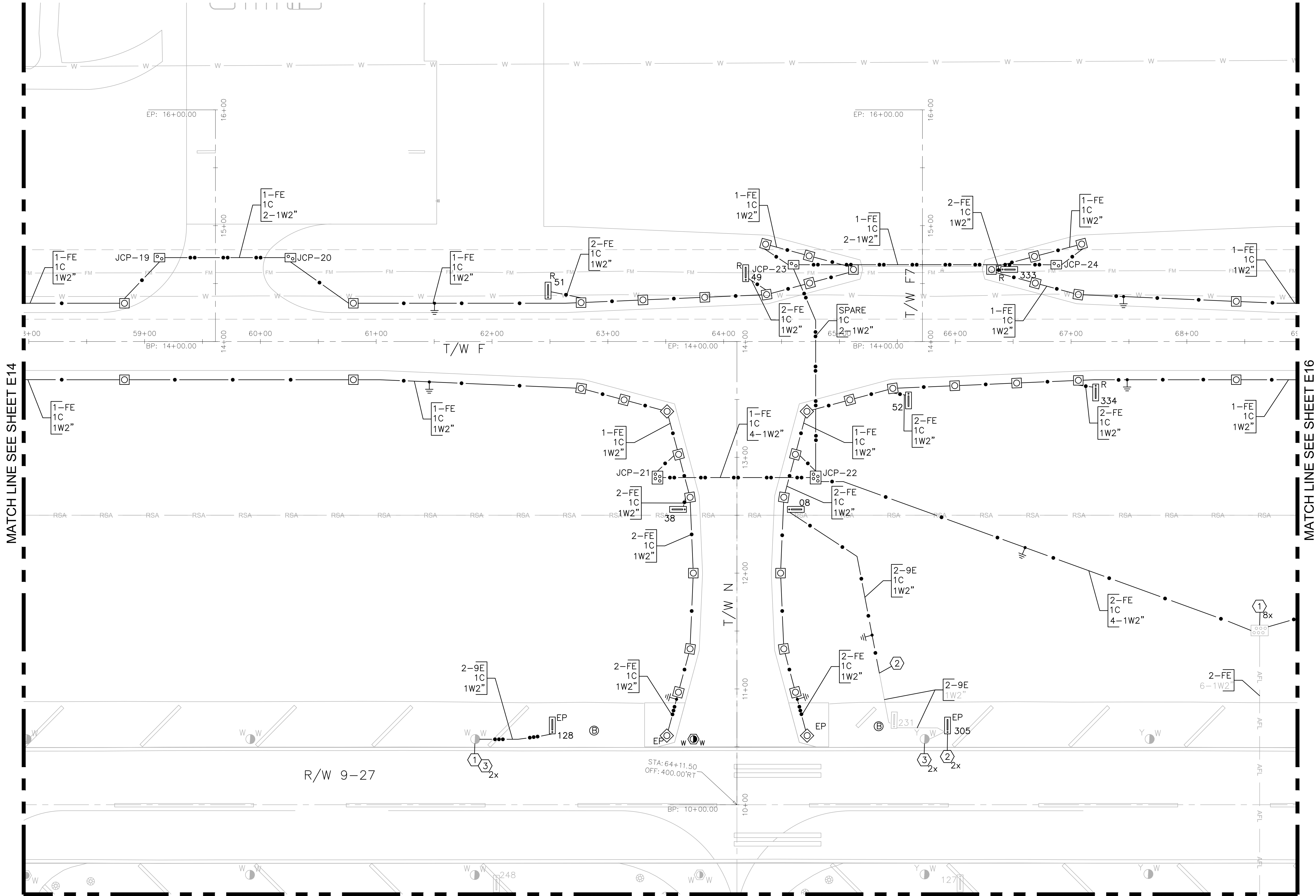
NG FILE NO.



100 North Andrews Avenue, Fort Lauderdale, Florida 33301

State of Florida
Professional Engineer
License No. 73735

AMY L. CHAMPAGNE -
BAKER



NOTES:

- 1. SEE SHEET E02 FOR ELECTRICAL INSTALLATION NOTES DESCRIPTIONS.

WARNING!!!
THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRAVERSING THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

CALL 48 HOURS BEFORE DIGGING
FAA FACILITIES 954-356-7212

Kimley-Horn
Kimley-Horn and Associates, Inc.
3000 N. W. 107th Ave., Suite 100
Boca Raton, Florida 33433
(561) 481-9100
FAX: (561) 481-9100

HILLERS ELECTRICAL ENGINEERING, INC.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33433
(561) 481-9100
(561) 481-9100

BID SET

PROJECT # 12243
TAXWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL CIRCUITY PLAN

SHEET NO.
E15 28

TOTAL: 103
CAD FILE: 12243-MULTI-ELC3
DRAWING FILE NO. 4-141-45

REVISIONS

NO.	DATE	BY	CHKD	DESCRIPTION

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

State of Florida
Professional Engineer
License No. 73735

AMY L. CHAMPAGNE - BAKER

DRAWN BY: DEU
DESIGNED BY: ALC
CHECKED BY: JWK
FIELD BOOK: 33301

DATE: 04-15-2019
SCALE: 1" = 40'



1. SEE SHEET E02 FOR ELECTRICAL INSTALLATION
NOTES DESCRIPTIONS.

WARNING!! WARNING!! WARNING!!

WE ARE A NUMBER OF ARMY, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRAVERSING THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER WILL ADVISE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY ATTEMPT TO LOCATE OR FLAG ANY ITEM WITHOUT THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

**CALL 48 HOURS
BEFORE YOU DIG**

**IT'S THE LAW!
DIAL 811**

811


**Know what's below.
Call before you dig.**



SUNSHINE STATE ONE CALL OF FLORIDA, INC.

CALL 48 HOURS BEFORE DIGGING

FAA FACILITIES 954-356-7212

Kimley-Horn
Kimley-Horn and Associates, Inc.
© 2016 KIMLEY-HORN AND ASSOCIATES, INC.
1920 WEKIVA WAY, SUITE 200, WEST PALM BEACH, FL 33411
FBPE No. CA 00000996

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

BID SET

PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL CIRCUITRY PLAN

SHEET NO.
E16 28
TOTAL: 103
CAD FILE:
12243-MULTI-ELC3
DRAWING FILE NO.
4-141-45

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

State of Florida
Professional Engineer
License No. 73735

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

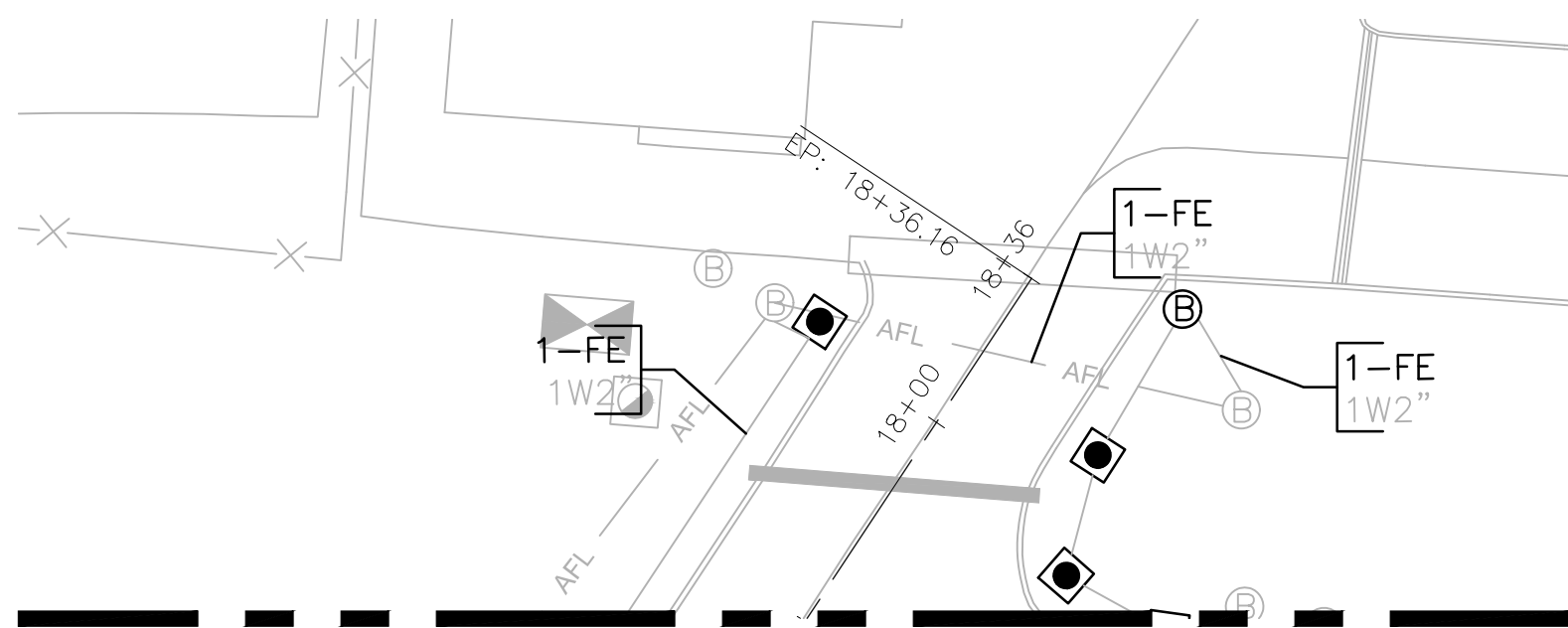
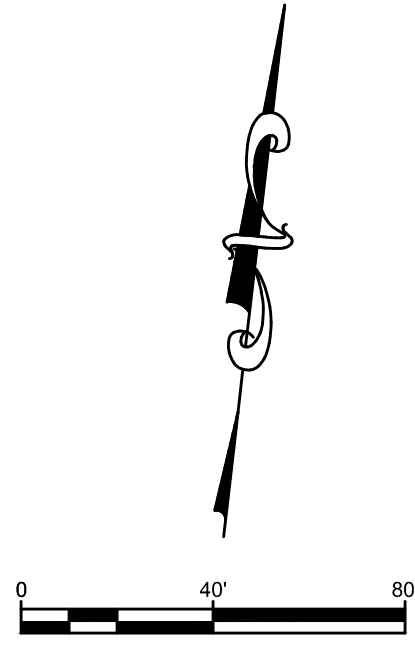
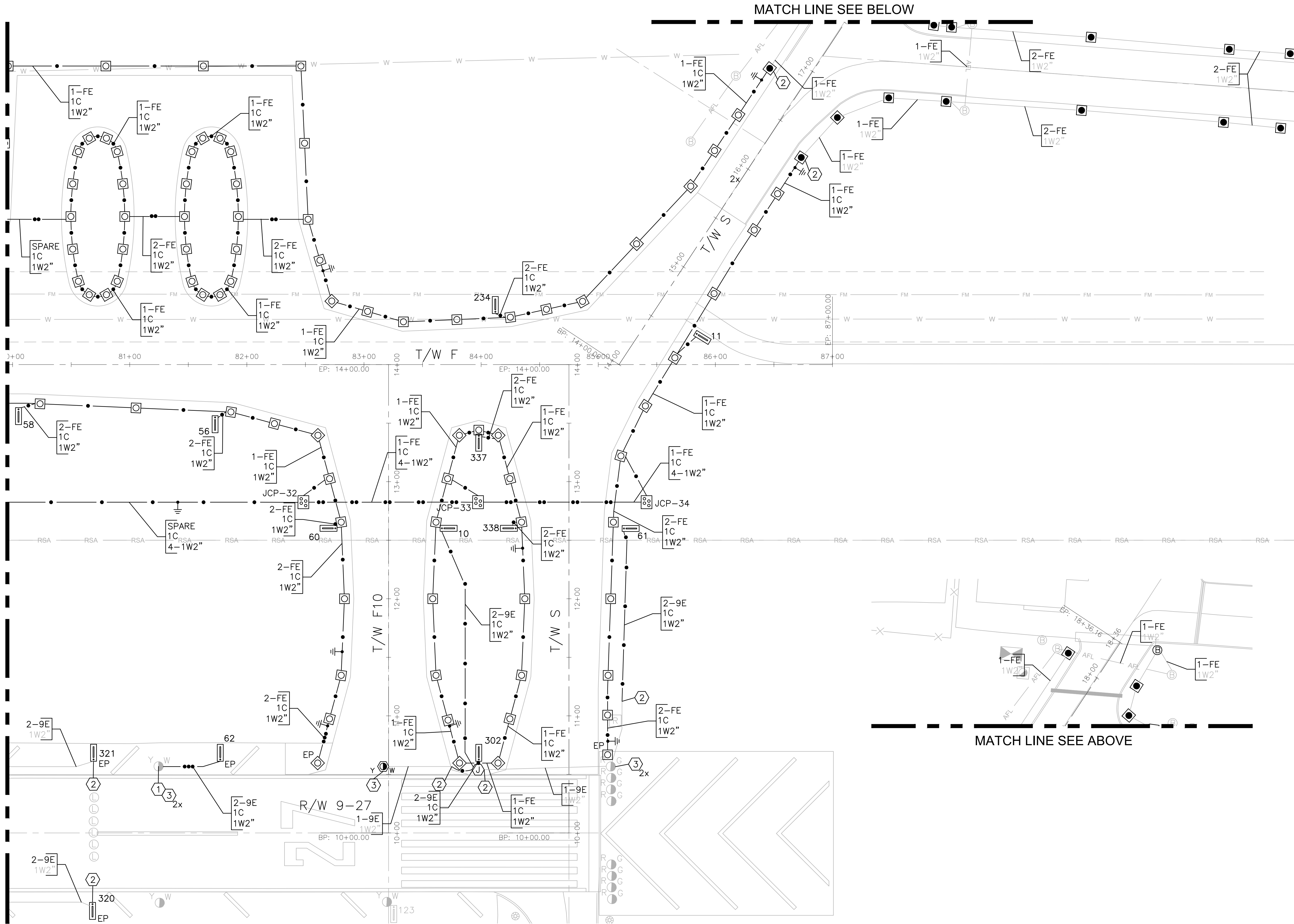
City of Fort Lauderdale

BID 12217-893

AMY L. CHAMPAGNE -
BAKER

E:\PROJECTS\KH\KH99\DWG\12243-MULTI-ELC3.DWG

MATCH LINE SEE SHEET E16



NOTES:

1. SEE SHEET E02 FOR ELECTRICAL INSTALLATION NOTES DESCRIPTIONS.

WARNING!!!
THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRAVERSING THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

Kimley-Horn
Kimley-Horn and Associates, Inc.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33498
(561) 481-9145 PHONE
(561) 481-4885 FAX
FIDIC No. CA-000000000
04/08/2008

HILLERS ELECTRICAL
ENGINEERING, INC.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33498
(561) 481-9145 PHONE
(561) 481-4885 FAX
FIDIC No. CA-000000000
04/08/2008

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! Dial 811 Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

CALL 48 HOURS BEFORE DIGGING
FAA FACILITIES 954-356-7212

BID SET

State of Florida
Professional Engineer
License No. 73735

DATE: 04-15-2019
DESIGNED BY: ALC
CHECKED BY: JWK
FIELD BOOK: 33301

AMY L. CHAMPAGNE-BAKER

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

REVISIONS	
NO.	DESCRIPTION

PROJECT # 12243
TAXWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL CIRCUITRY PLAN

SHEET NO.
E17 28

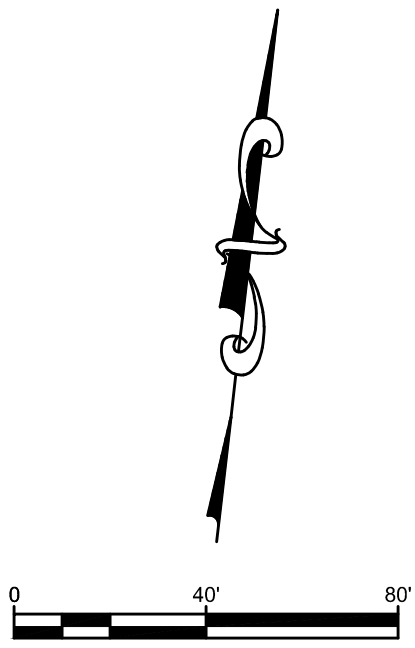
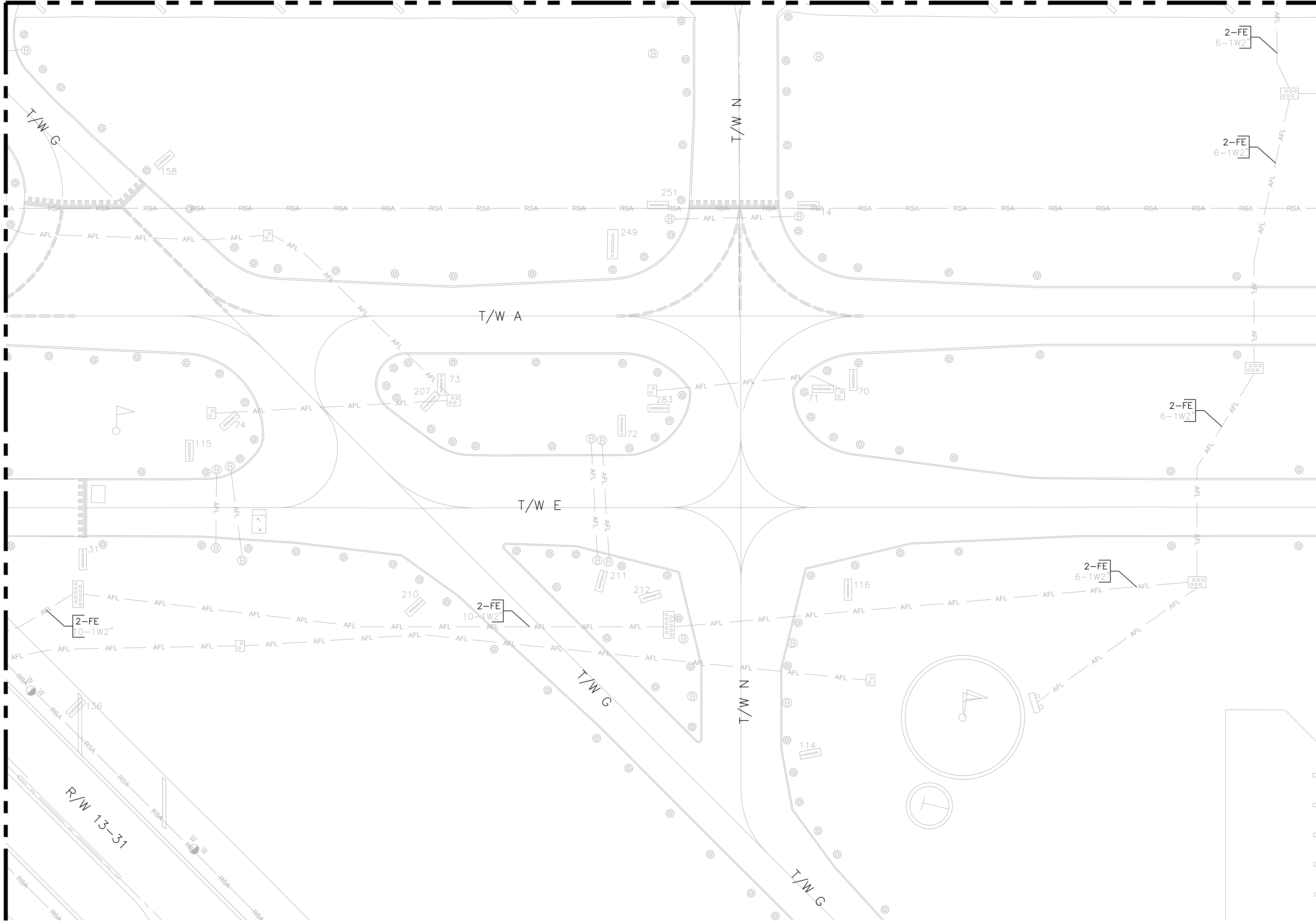
TOTAL: 103
CAD FILE: 12243-MULTI-ELC3
DRAWING FILE NO. 4-141-45

CAM #19-1062
Exhibit 3D - Part 4 of 4
Page 24 of 53

BID 12277-693

MATCH LINE SEE SHEET E15

MATCH LINE SEE SHEET E19



NOTES:
1. SEE SHEET E02 FOR ELECTRICAL INSTALLATION NOTES DESCRIPTIONS.

WARNING!!! THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRAVERSING THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

Kimley-Horn
Kimley-Horn and Associates, Inc.
38857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33498
(561) 481-9148 PHONE
(561) 481-4888 FAX
FIDIC No. CA-000000000
04/08/2008

HILLERS ELECTRICAL ENGINEERING, INC.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33498
(561) 481-9148 PHONE
(561) 481-4888 FAX
FIDIC No. CA-000000000
04/08/2008

CALL 48 HOURS BEFORE YOU DIG
811
IT'S THE LAW!
DIAL 811
Know what's below.
Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.
CALL 48 HOURS BEFORE DIGGING
FAA FACILITIES 954-356-7212

State of Florida
Professional Engineer
License No. 73735

AMY L. CHAMPAGNE -
BAKER

DRAWN BY: DEU
DESIGNED BY: ALC
CHECKED BY: JWK
FIELD BOOK:
DATE: 04-15-2019
SCALE: 1" = 40'

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

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHK'D

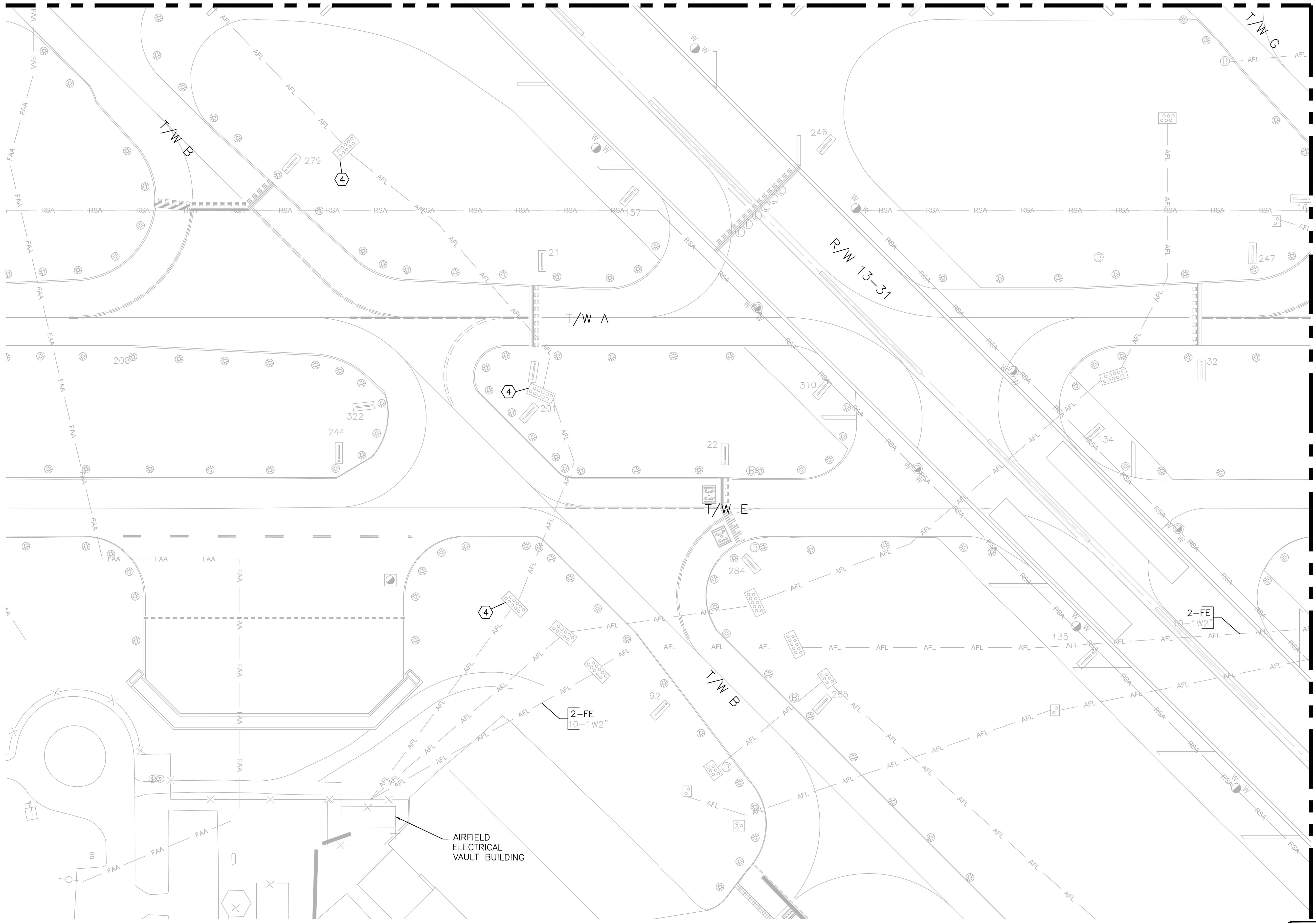
PROJECT # 12243
TAXWAY FOXROT
RELOCATION PROJECT
ELECTRICAL CIRCUITRY PLAN

SHEET NO.
E18 28

TOTAL: 103
CAD FILE: 12243-MULTI-ELC3
DRAWING FILE NO. 4-141-45

BID SET

E:\PROJECTS\KH\KH99\DWG\12243\MULTI-ELC3.DWG

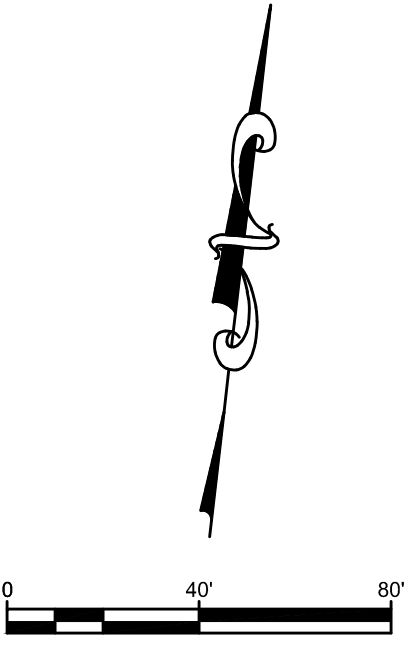


NOTES:

1. SEE SHEET E02 FOR ELECTRICAL INSTALLATION NOTES DESCRIPTIONS.

MATCH LINE SEE SHEET E14

MATCH LINE SEE SHEET E18



WARNING!!!
THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRaversing THE AIRFIELD PAVEMENTS AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY THEIR ACTIONS, WITH NO ADDITIONAL COMPENSATION.

Kimley-Horn
Kimley-Horn and Associates, Inc.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33433
(561) 481-9148 PHONE
(561) 481-4888 FAX
FIDIC No. CA-000000000
04/08/2008

HILLERS ELECTRICAL ENGINEERING, INC.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33433
(561) 481-9148 PHONE
(561) 481-4888 FAX
04/08/2008

CALL 48 HOURS BEFORE YOU DIG
811
IT'S THE LAW!
DIAL 811
Know what's below.
Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.
CALL 48 HOURS BEFORE DIGGING
FAA FACILITIES 954-356-7212

State of Florida
Professional Engineer
License No. 73735
AMY L. CHAMPAGNE -
BAKER

DRAWN BY:	DATE:
DEU	04-15-2019
DESIGNED BY:	SCALE:
ALC	1' = 40'
CHECKED BY:	
JWK	
FIELD BOOK:	

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

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHECKED

PROJECT # 12243
TAXWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL CIRCUITRY PLAN

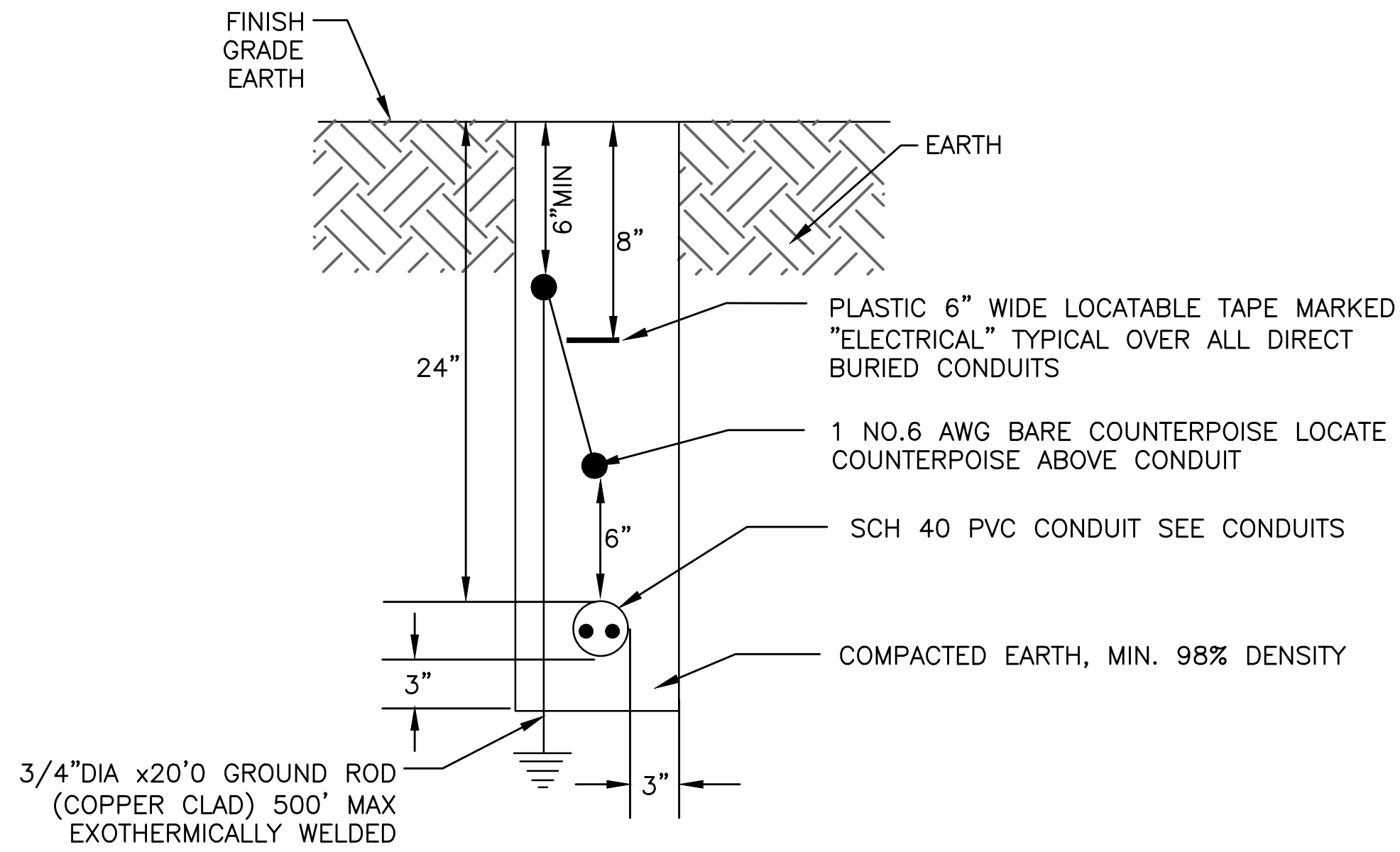
SHEET NO.
E19 28

TOTAL: 103

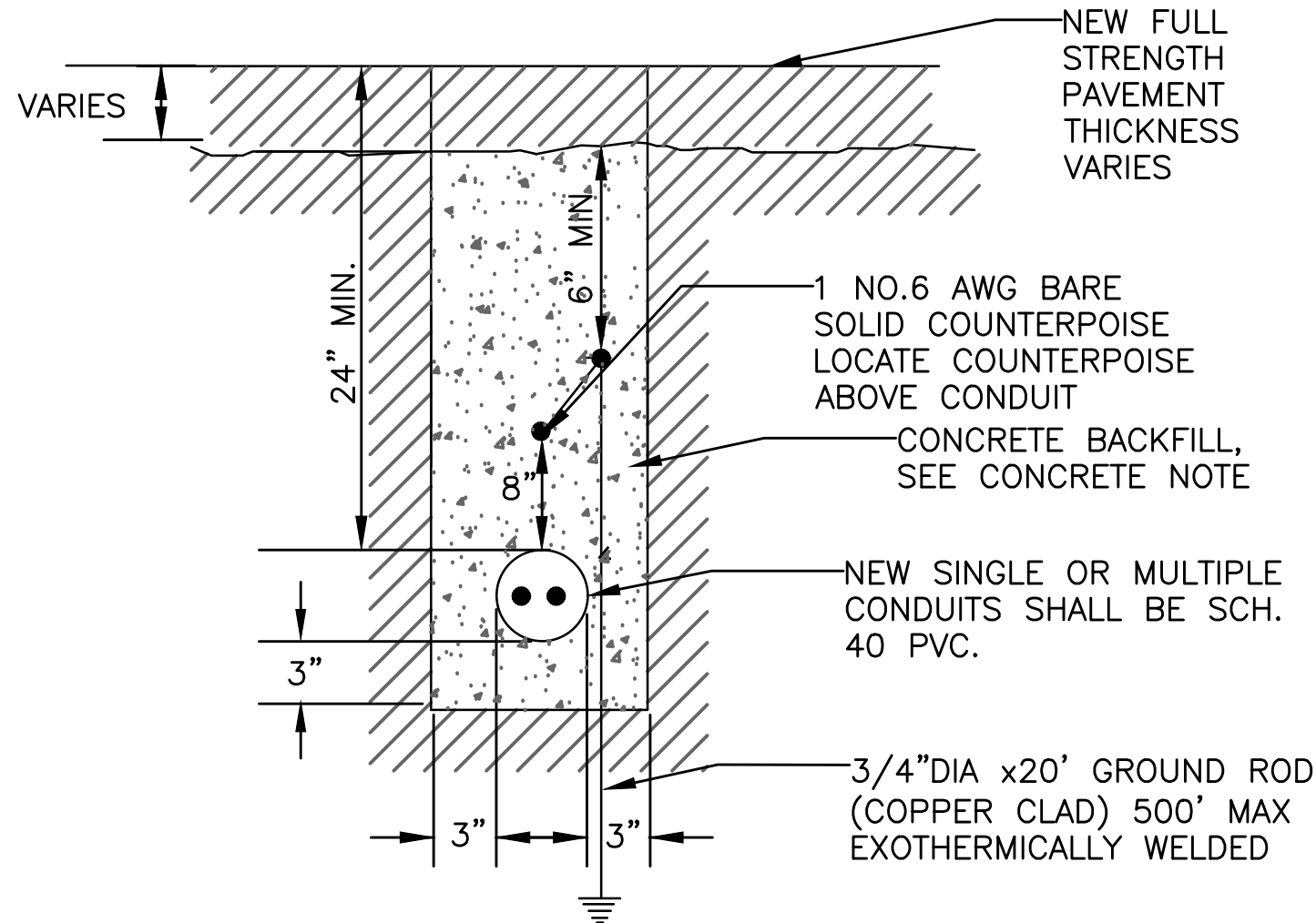
CAD FILE:
12243-MULTI-ELC3

DRAWING FILE NO.
4-141-45

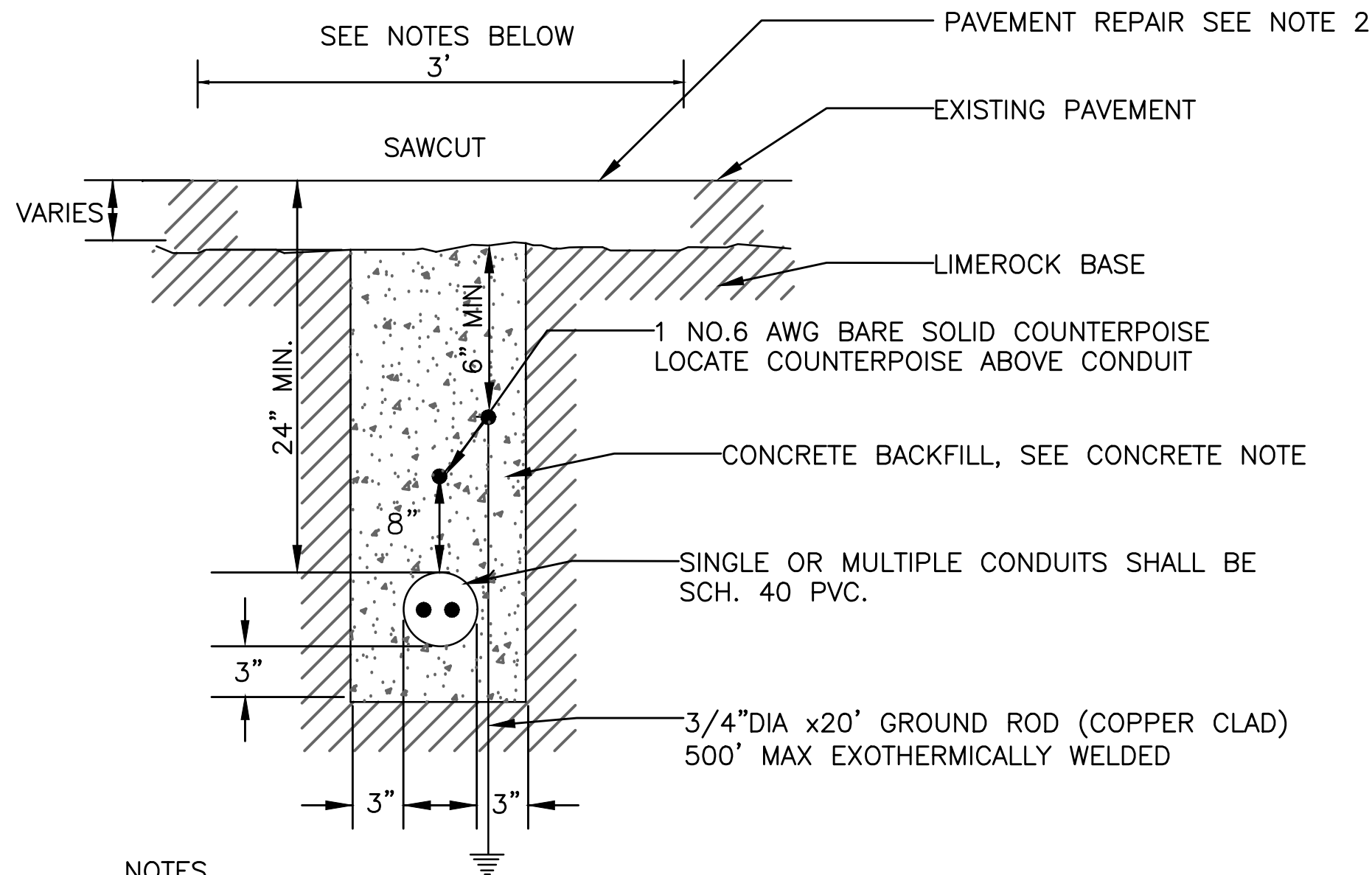
BID SET



TYPICAL CONDUIT INSTALLATIONS IN EARTH
NOT TO SCALE

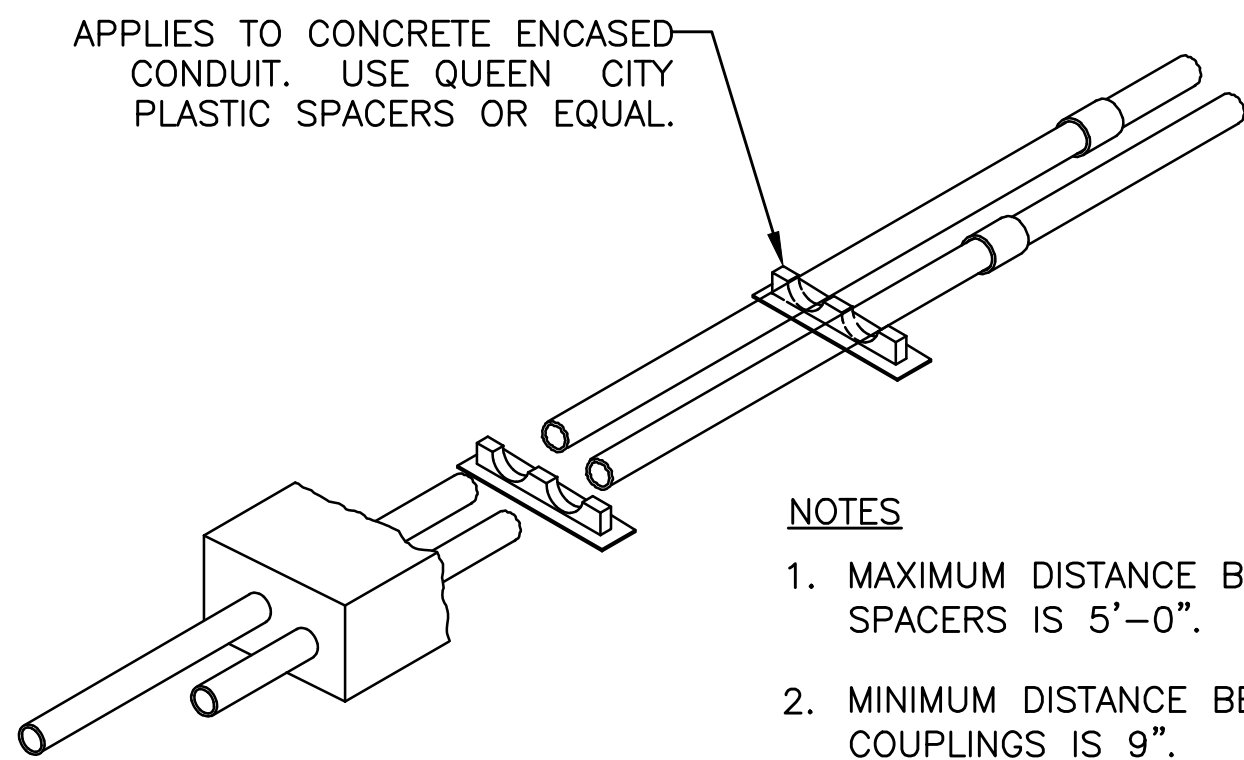


TYPICAL CONDUIT INSTALLED IN NEW FULL STRENGTH PAVEMENT
NOT TO SCALE

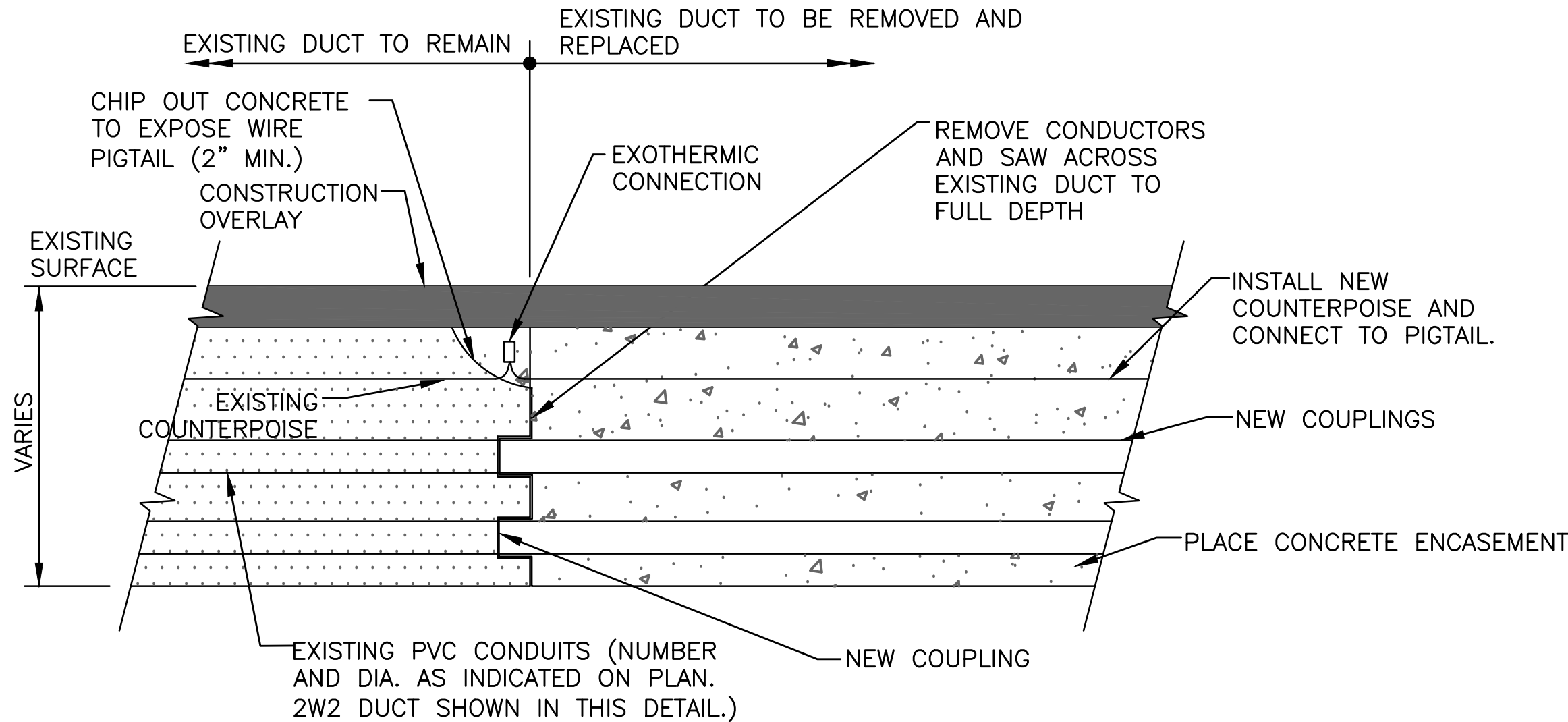


- NOTES
1. SAWCUT EXISTING PAVEMENT AND REMOVE 3 FT. WIDE SECTION OF EXISTING BITUMINOUS PAVEMENT TO EXISTING LIMEROCK BASE.
 2. REPAIR OF BITUMINOUS PAVEMENT SHALL BE AS SHOWN ON PAVEMENT PLANS.
 3. MINIMUM COVER OVER CONDUIT SHALL BE 24" UNDER AIRFIELD PAVEMENTS.

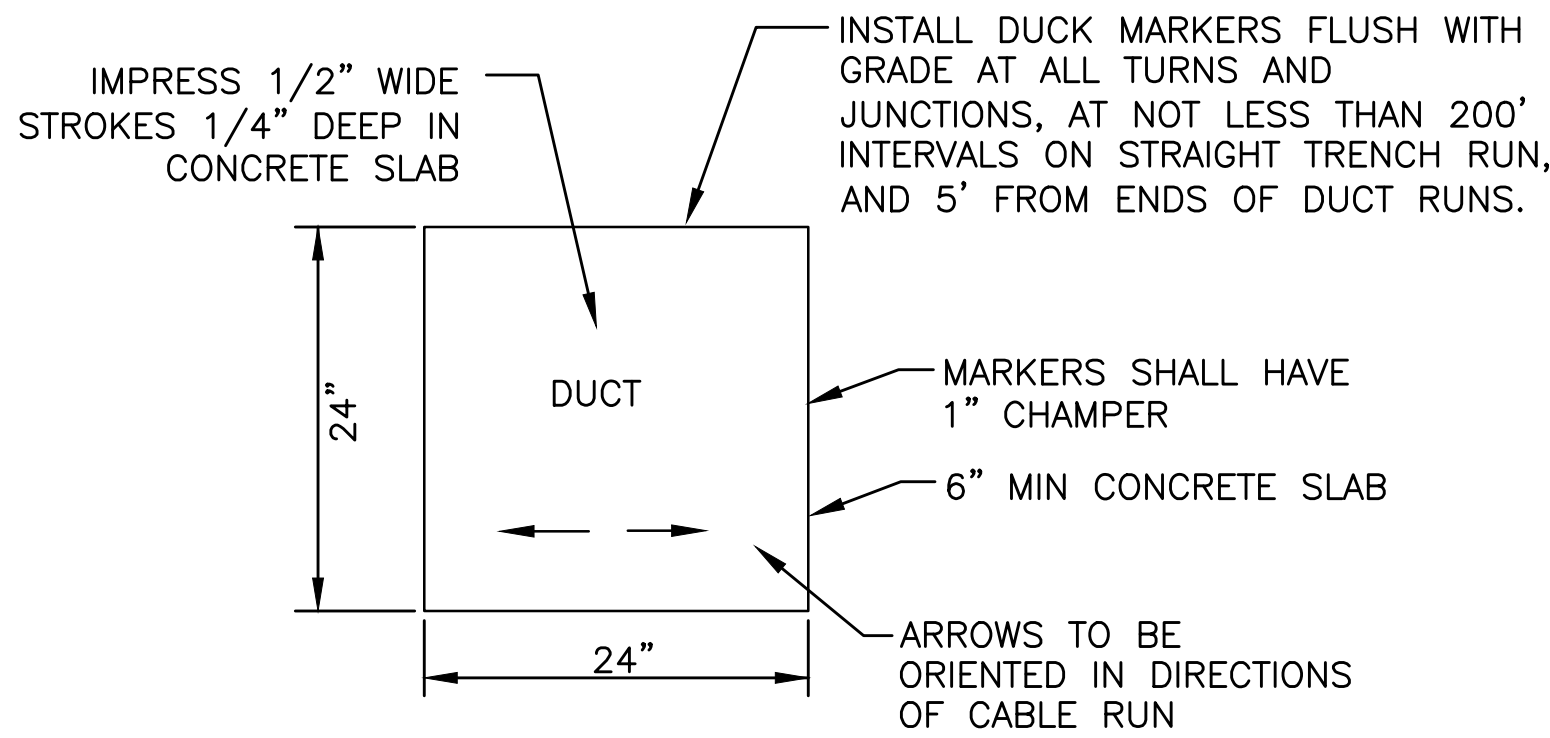
TYPICAL CONDUIT INSTALLED IN EXISTING FULL STRENGTH/ PAVEMENT
NOT TO SCALE



HORIZONTAL STAGGERING OF SPACERS AND JOINTS
NOT TO SCALE



CONNECTION OF PROPOSED TO EXISTING DUCT
NOT TO SCALE
TYPICAL FOR 1 WAY DUCT OR MULTI-DUCT COMBINATIONS



DUCT MARKERS
NOT TO SCALE
TYPICAL

CONCRETE NOTE: CONCRETE FOR BACKFILL, SIGN PADS AND BASE CANS IN THE RUNWAY/TAXIWAY SAFETY AREAS AND IN EXISTING PAVEMENT WHERE AIRCRAFT TRAFFIC WILL RESUME IMMEDIATELY UPON RE-OPENING, OR IN AREAS OTHERWISE INDICATED IN THE DETAILS AND DRAWINGS SHALL CONFORM TO THE REQUIREMENTS OF P-610 CONCRETE WITH A MINIMUM 5 HOUR STRENGTH OF 2,500 PSI AND A MINIMUM 28 DAY STRENGTH OF 5,000 PSI. A CONCRETE MIX DESIGN SHALL BE SUBMITTED AND APPROVED BEFORE COMMENCEMENT OF WORK.

CONCRETE FOR BACKFILL, SIGN PADS AND BASE CANS NOT IN THE RUNWAY/TAXIWAY SAFETY AREAS OR IN EXISTING PAVEMENT WHERE AIRCRAFT TRAFFIC WILL RESUME IMMEDIATELY UPON RE-OPENING, SHALL CONFORM TO THE REQUIREMENTS OF P-610 CONCRETE WITH A MINIMUM 28 DAY STRENGTH OF 4,000 PSI. A CONCRETE MIX DESIGN SHALL BE SUBMITTED AND APPROVED BEFORE COMMENCEMENT OF WORK.

Kimley-Horn
Kimley-Horn and Associates, Inc.
©2018 KIMLEY-HORN AND ASSOCIATES, INC.
1920 MEDINA WAY, SUITE 200, WEST PALM BEACH, FL 33411
TEL: 561-831-9100 FAX: 561-831-9101
WWW.KIMLEY-HORN.COM

HILLERS ELECTRICAL ENGINEERING, INC.
25587 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33488
(561) 451-9149 PHONE
(561) 451-4888 FAX

BID SET

State of Florida
Professional Engineer
License No. 73735

AMY L. CHAMPAGNE -
BAKER

DRAWN BY: DEU
DATE: 04-15-2019
DESIGNED BY: SCALE: NONE
CHECKED BY: JWK
FIELD BOOK: 33301

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHKD

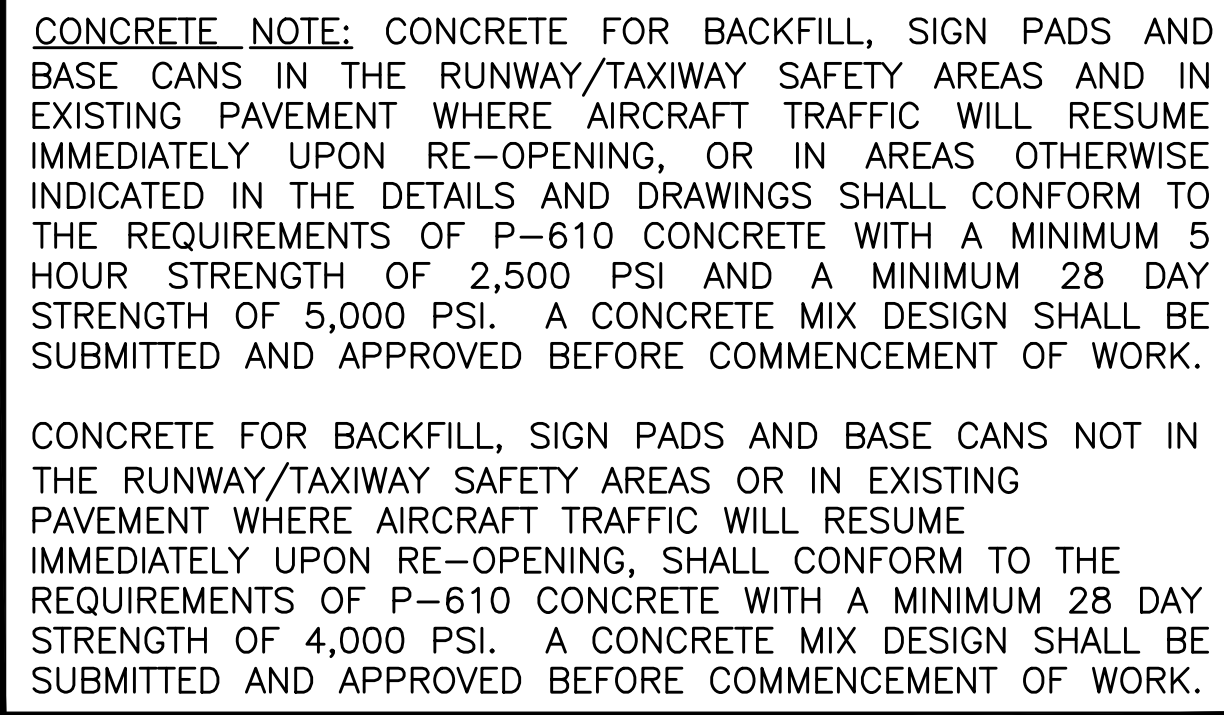
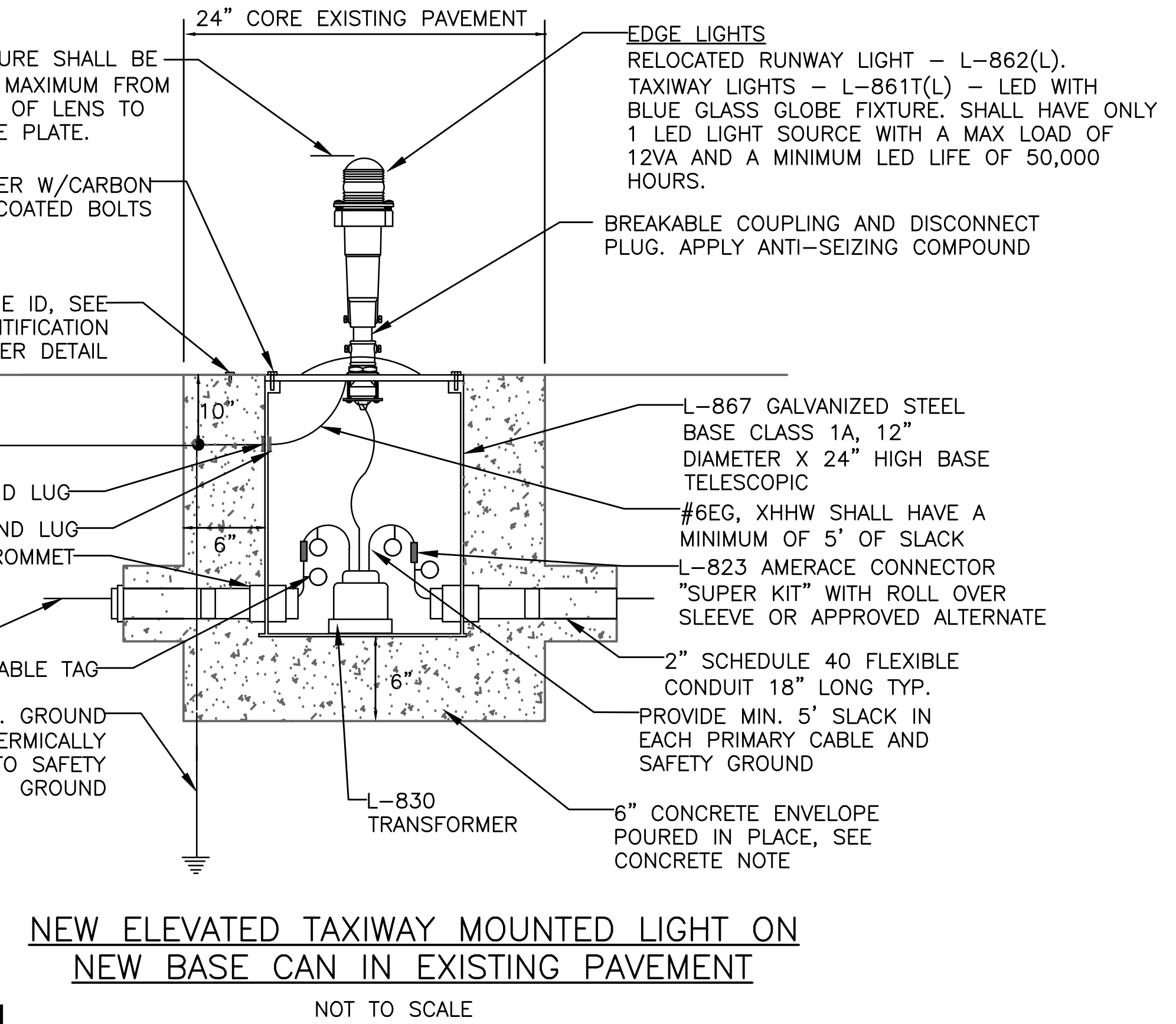
PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL DETAILS

SHEET NO. OF
E20 28


TOTAL: 103

CAD FILE: 12243-E20-DETL

DRAWING FILE NO. 4-141-45



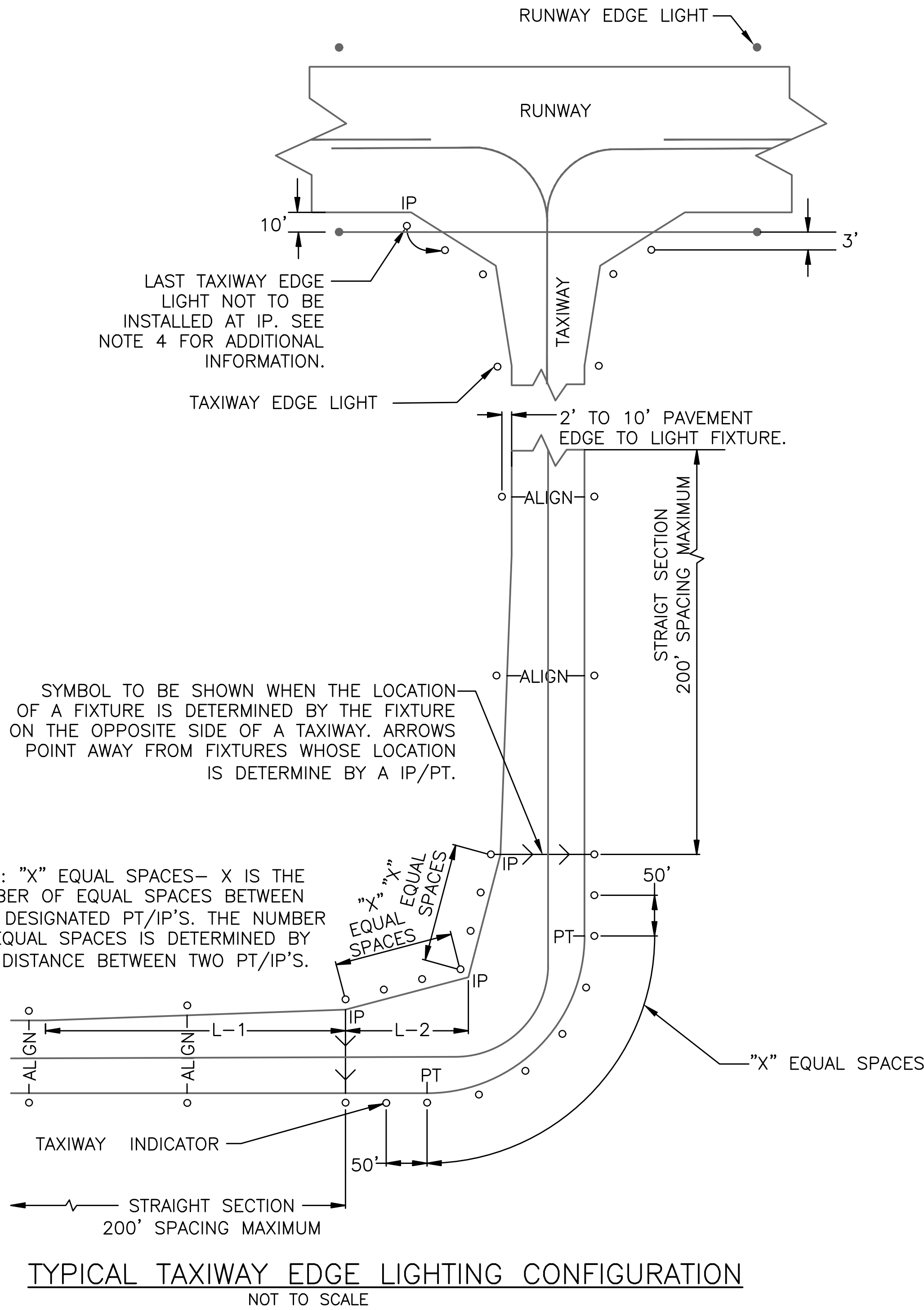
DRAWN BY: DEU	DATE: 04-15-2019
DESIGNED BY: ALC	SCALE: NONE
CHECKED BY: JWK	
FIELD BOOK:	

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

[illegible]

PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL DETAILS

SHEET NO.	OF
E21	28
TOTAL: 103	
CAD FILE: 12243-E21-DETL	
DRAWING FILE NO. 4-141-45	



EDGE LIGHT CONFIGURATION NOTES:

- EDGE LIGHTS INSTALLED IN NEW SHOULDER/FULL STRENGTH PAVEMENT OR EARTH SHALL BE INSTALLED AT 8' FROM OUTSIDE EDGE OF TAXIWAY/RUNWAY EDGE STRIPE TO CENTER OF LIGHT FIXTURE.
- EDGE LIGHTS INSTALLED IN THE EXISTING FULL STRENGTH/SHOULDER PAVEMENT OR EARTH SHALL MATCH THE EXISTING LIGHT OFFSET FROM OUTSIDE EDGE OF TAXIWAY/RUNWAY EDGE STRIPE, NOT TO EXCEED 10' TO CENTER OF LIGHT FIXTURE. SHOULD NEW OFFSET DIFFER FROM EXISTING OFFSET, CONTRACTOR SHALL COORDINATE AND VERIFY OFFSETS WITH ENGINEER/OWNER PRIOR TO INSTALLATION.
- ALL EDGE LIGHTS SHALL BE INSTALLED PER FAA AC150/5340-30, LATEST EDITION. LIGHTS INSTALLED ON OPPOSITE SIDES OF RUNWAYS AND STRAIGHT SECTIONS OF TAXIWAYS ARE ALIGNED SUCH THAT OPPOSING LIGHTS ARE IN A LINE PERPENDICULAR WITH THE CENTERLINE.
- THE LAST TAXIWAY EDGE LIGHT AT A RUNWAY/TAXIWAY EDGE INTERSECTION MUST BE PLACED AT AN ADDITIONAL 3 FEET FROM THE RUNWAY EDGE LIGHT OFFSET LINE. THE OFFSET IS NECESSARY TO MINIMIZE ANY POTENTIAL CONFLICT WITH RUNWAY EDGE LIGHTS.

Kimley-Horn
Kimley-Horn and Associates, Inc.
©2018 KIMLEY-HORN AND ASSOCIATES, INC.
1620 MEDINA WAY, SUITE 200, WEST PALM BEACH, FL 33411
TEL: 561-831-1100
FAX: 561-831-1101

HILLERS ELECTRICAL ENGINEERING, INC.
25557 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33488
(561) 451-9149 PHONE
(561) 451-4888 FAX

BID SET

PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL DETAILS

SHEET NO.	OF
E22	28
TOTAL:	103
CAD FILE:	12243-E22-DETL
DRAWING FILE NO.	4-141-45

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHK'D

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

DRAWN BY:	DEU	DATE:	04-15-2019
DESIGNED BY:	ALC	SCALE:	NONE
CHECKED BY:	JWK		
FIELD BOOK:			

State of Florida
Professional Engineer
License No. 73735

AMY L. CHAMPAGNE -
BAKER

NOTES: MULTIPLE SECTION L-868, BASE CAN

1.

FIXTURES ARE TO BE INSTALLED IN A 3 STEP PROCESS. STEP 1, 2 & 3 INSTALLATION SEQUENCE SHALL BE AS DETAILED IN NOTES 1 THROUGH 7.
2.

CONTRACTOR SHALL REMOVE EXISTING FIXTURE AND TRANSFORMER. CONTRACTOR SHALL CORE, REMOVE AND DISPOSE OF THE EXISTING TOP SECTION, FLANGE RING, AND SPACERS. CONTRACTOR SHALL DRILL AND TAP EXISTING THREADED BOLT HOLES IN EXISTING BOTTOM SECTION, PROTECT EXISTING CIRCUIT CONDUCTORS AND PROVIDE AND INSTALL STEEL MUD PLATE.
3.

AFTER THE TOTAL BITUMINOUS PAVEMENT IS INSTALLED, CORE A 4" DIAMETER PILOT HOLE AND LOCATE THE CENTER POINT OF THE STEEL MUD PLATE. CORE 13" TO 14 1/2" DIAMETER HOLE FOR 12" DIAMETER CANS AND 16" TO 17 1/2" DIAMETER HOLE FOR 15" DIAMETER CANS, CENTERING IT ON THE CENTER POINT OF THE STEEL MUD PLATE, REMOVE THE STEEL MUD PLATE AND STEEL COVER, INSTALL L-868 EXTENSION (SPACER, FLANGE RING OR SHIM) AND LIGHT ASSEMBLY. SEAL ANNULAR SPACE AROUND NEW EXTENSION/TOP SECTION TO NEW DAM RING WITH P-606 RIGID CEMENTING COMPOUND AND SEAL AROUND NEW DAM RING TO TOP EDGE OF PAVEMENT RING WITH P-605 FLEXIBLE SEALANT. SEALANT SHALL BE MANUFACTURED BY SYMONS, 3M OR APPROVED EQUAL. CONTRACTOR SHALL APPLY A THIN LAYER OF SELF-LEVELING SILICONE (RTV118) BETWEEN L-868 BASE, SPACERS, AND FLANGE RING.
4.

THE HEIGHT OF THE L-868 EXTENSION SHALL BE DETERMINED AS FOLLOWS:

A.

RECORD FINAL ELEVATION OF THE TOP AND AT THE MIDPOINT OF THE 3/4" STEEL COVER AFTER THE BOTTOM SECTION OF THE BASE HAS BEEN INSTALLED.

B.

RECORD FINAL ELEVATION OF THE PAVEMENT DIRECTLY ABOVE THE MIDPOINT OF THE STEEL COVER AFTER THE PAVING IS COMPLETELY INSTALLED.

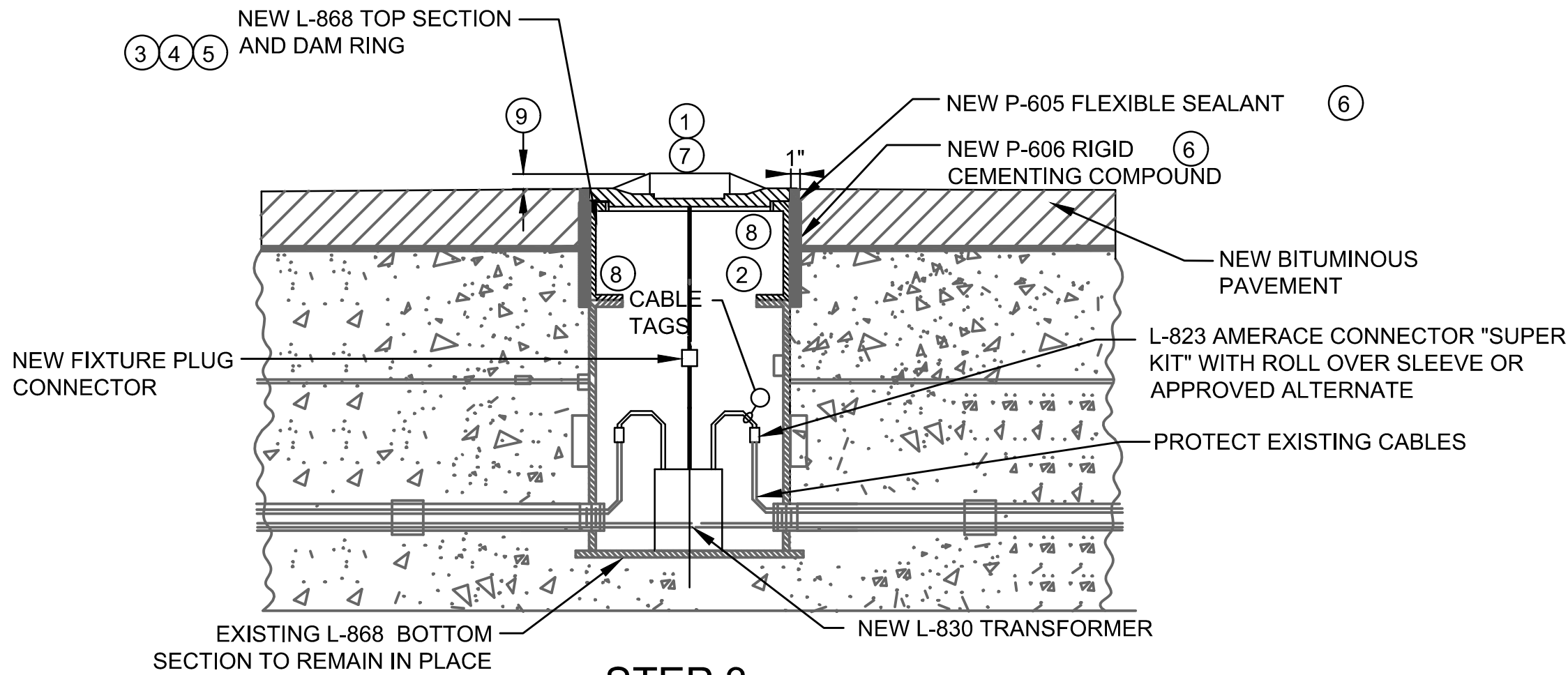
C.

THE EDGE OF THE LIGHT FIXTURE SHALL MATCH THE FINISHED PAVEMENT SURFACE TO (+) 0" (-) 1/16" TOLERANCE.
5.

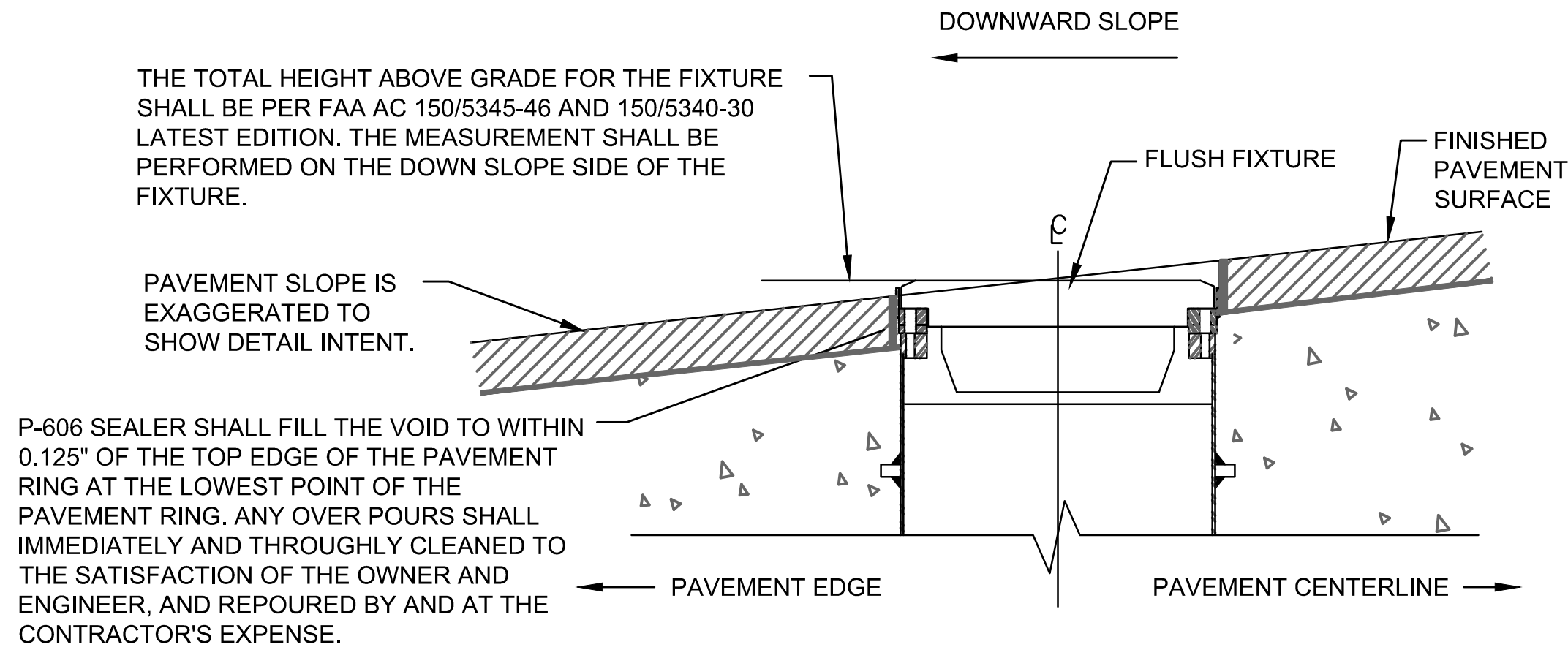
DO NOT REUSE SHIPPING OR EXISTING BOLTS. CONTRACTOR SHALL PROVIDE AND INSTALL NEW CARBON STEEL COATED BOLTS OF THE PROPER LENGTH AND 2-PIECE LOCKWASHERS SHALL BE FURNISHED WITH THE SPACER RING. INSTALL LIGHT FIXTURE WITH THE NEW CARBON STEEL COATED BOLTS AND LOCKWASHERS AND TORQUE TO MANUFACTURERS INSTRUCTIONS.
6.

AFTER FIXTURE INSTALLATION, CONTRACTOR SHALL FURNISH AND INSTALL P-605 FLEXIBLE SEALANT IN SPACE AROUND DAM RING AND P-606 RIGID CEMENTING COMPOUND IN SPACE AROUND THE EXTENSIONS AND SPACERS.
7.

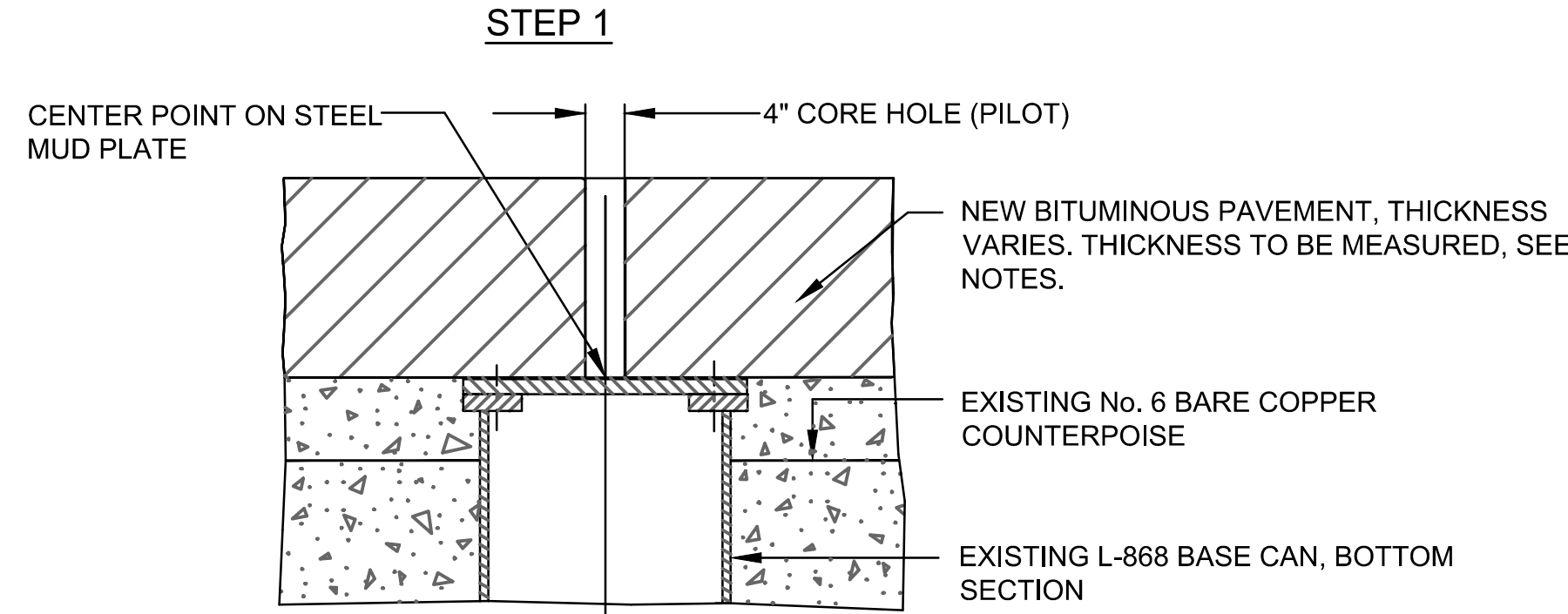
THE CONTRACTOR SHALL CONFORM TO THE CURRENT FAA ADVISORY CIRCULARS, FAA 150/5340-30, LATEST EDITION FOR RUNWAY AND TAXIWAY IN-PAVEMENT LIGHTING SYSTEMS INSTALLATION AND INSTALLATION TOLERANCES.



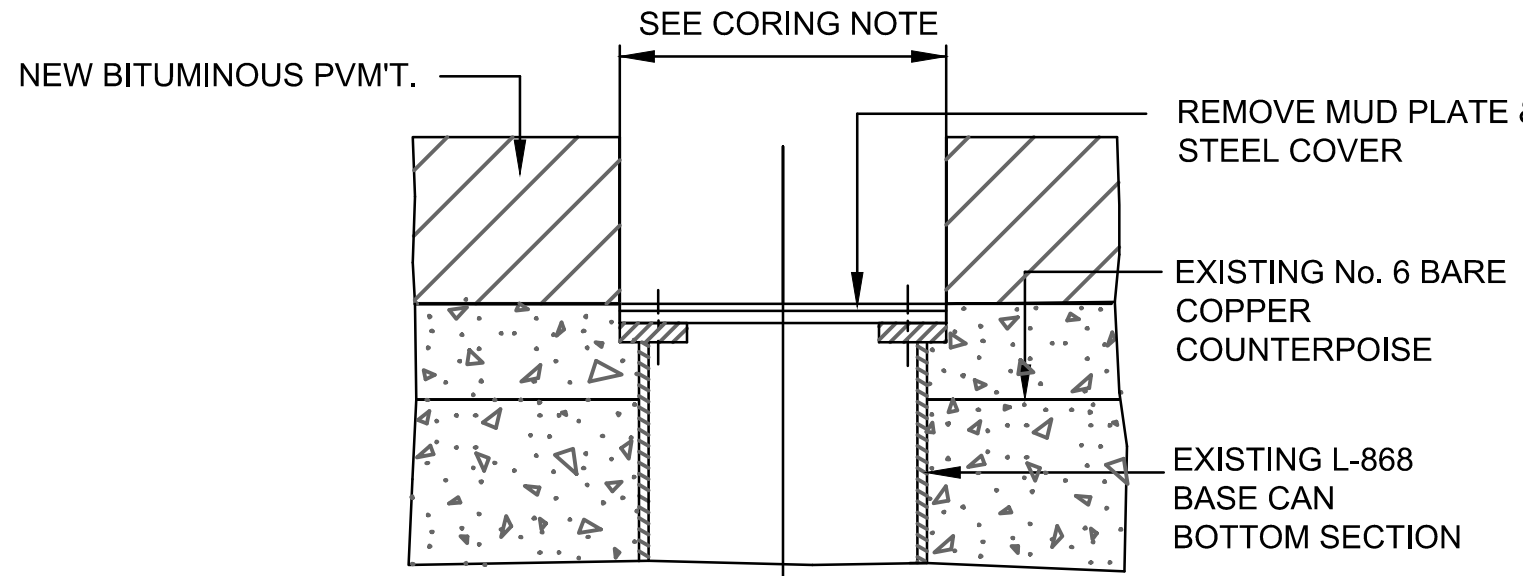
NEW TOP SECTIONS INSTALLED ON EXISTING BASE CAN IN EXISTING FULL STRENGTH PAVEMENT INSTALLATION DETAILS



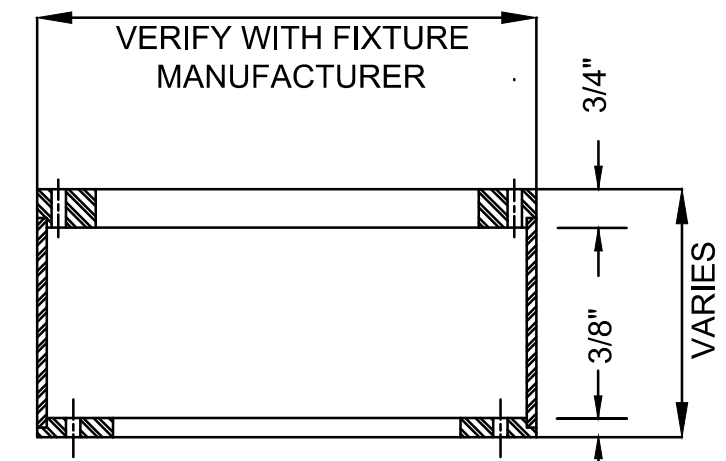
FLUSH FIXTURE ELEVATION



STEP 1

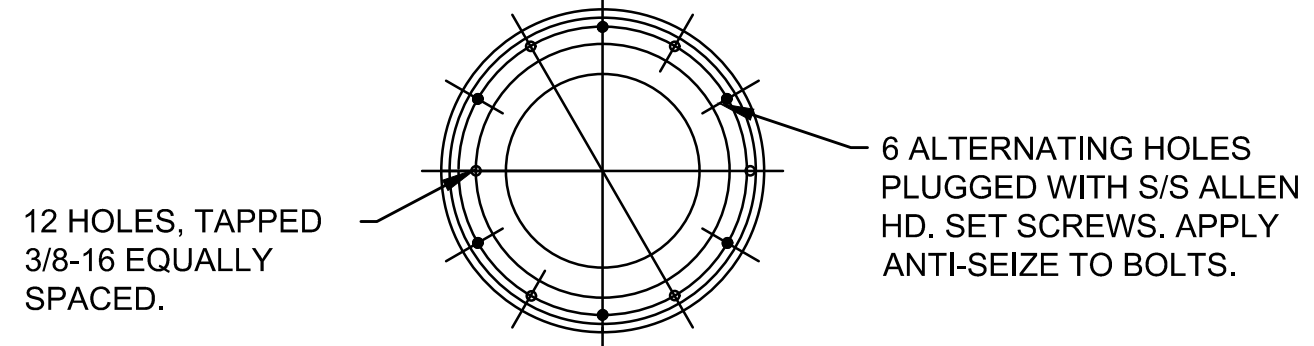


STEP 2



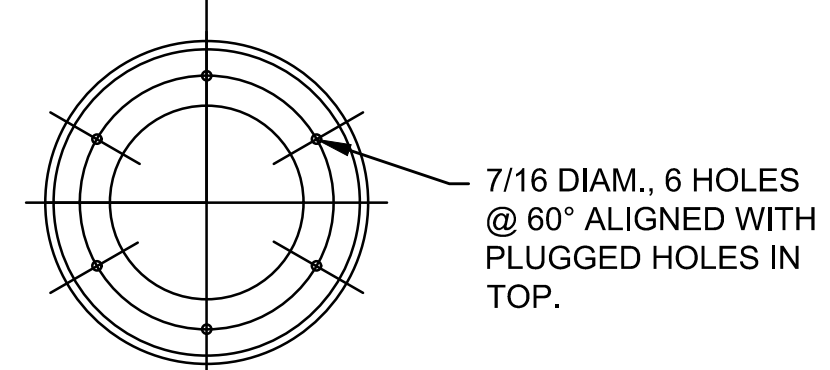
TOP SECTION

NOT TO SCALE



TOP VIEW OF TOP SECTION

NOT TO SCALE



BOTTOM VIEW OF TOP SECTION

FAA SPEC. L-868 CLASS I

NOT TO SCALE

NOTES:

- ①

PROVIDE NEW CARBON STEEL COATED BOLTS AND NORD-LOCK INC. VIBRATION PROOF WASHERS FOR ALL MOUNTING BOLTS.
- ②

PROVIDE STEEL MUD PLATE FOR BOTTOM SECTION.
- ③

MAKE SMALL DIAMETER TEST CORE TO DETERMINE EXACT CENTER OF BASE AND TO DETERMINE REQUIRED HEIGHT OF TOP SECTION.
- ④

CORE HOLE THROUGH SURFACE COURSE
- ⑤

INSTALL NEW L-868 TOP SECTION.
- ⑥

SEAL ANNULAR SPACE AROUND NEW EXTENSION/TOP SECTION TO NEW DAM RING WITH P-606 RIGID CEMENTING COMPOUND AND SEAL AROUND NEW DAM RING TO TOP EDGE OF PAVEMENT RING WITH P-605 FLEXIBLE SEALANT. SEALANT SHALL BE MANUFACTURED BY SYMONS, 3M OR APPROVED EQUAL. CONTRACTOR SHALL APPLY A THIN LAYER OF SELF-LEVELING SILICONE (RTV118) BETWEEN L-868 BASE, SPACERS, AND FLANGE RING.
- ⑦

INSTALL FLUSH MOUNT FIXTURE, SEE FLUSH FIXTURE ELEVATION DETAIL.
- ⑧

ALL BOLTS SHALL EXTEND 3/4" BEYOND BASE CAN MACHINED THREAD SYSTEMS.
- ⑨

STYLE 2 FIXTURES SHALL BE A MAX OF 1/2" ABOVE GRADE

CONCRETE NOTE: CONCRETE FOR BACKFILL, SIGN PADS AND BASE CANS IN THE RUNWAY/TAXIWAY SAFETY AREAS AND IN EXISTING PAVEMENT WHERE AIRCRAFT TRAFFIC WILL RESUME IMMEDIATELY UPON RE-OPENING, OR IN AREAS OTHERWISE INDICATED IN THE DETAILS AND DRAWINGS SHALL CONFORM TO THE REQUIREMENTS OF P-610 CONCRETE WITH A MINIMUM 5 HOUR STRENGTH OF 2,500 PSI AND A MINIMUM 28 DAY STRENGTH OF 5,000 PSI. A CONCRETE MIX DESIGN SHALL BE SUBMITTED AND APPROVED BEFORE COMMENCEMENT OF WORK.

CONCRETE FOR BACKFILL, SIGN PADS AND BASE CANS NOT IN THE RUNWAY/TAXIWAY SAFETY AREAS OR IN EXISTING PAVEMENT WHERE AIRCRAFT TRAFFIC WILL RESUME IMMEDIATELY UPON RE-OPENING, SHALL CONFORM TO THE REQUIREMENTS OF P-610 CONCRETE WITH A MINIMUM 28 DAY STRENGTH OF 4,000 PSI. A CONCRETE MIX DESIGN SHALL BE SUBMITTED AND APPROVED BEFORE COMMENCEMENT OF WORK.

Kimley-Horn
Kimley-Horn and Associates, Inc.
©2018 KIMLEY-HORN AND ASSOCIATES, INC.
1820 MEYER WAY, SUITE 200, WEST PALM BEACH, FL 33411
TEL: 561-831-0000 FAX: 561-831-0000

HILLERS ELECTRICAL ENGINEERING, INC.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33488
(561) 481-9149 PHONE
(561) 481-4888 FAX

State of Florida
Professional Engineer
License No. 73735

AMY L. CHAMPAGNE -
BAKER

DRAWN BY: DEU
DATE: 04-15-2019

DESIGNED BY: ALC
SCALE: NONE

CHECKED BY: JWK

FIELD BOOK:

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

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHECKED

PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL DETAILS

SHEET NO.
E23

OF
28

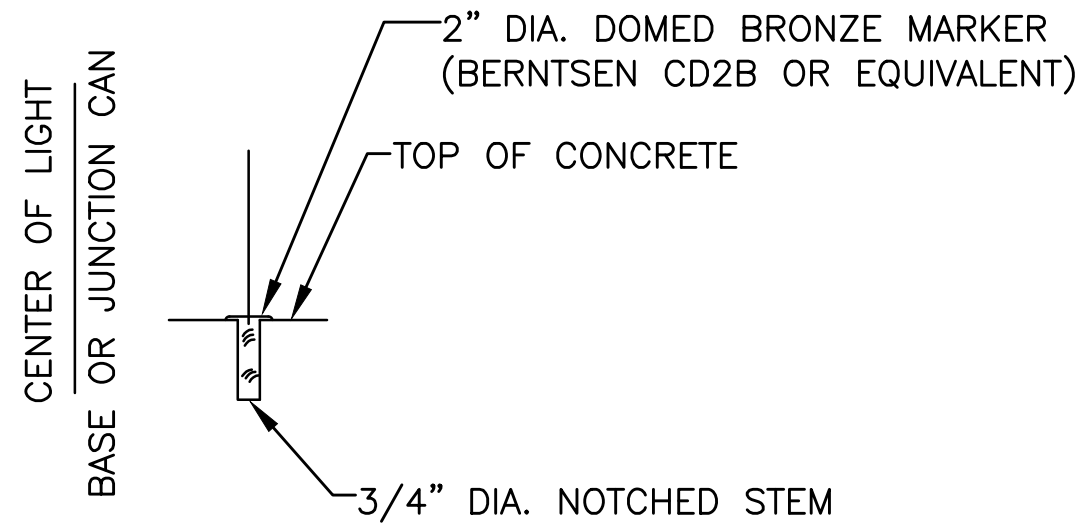
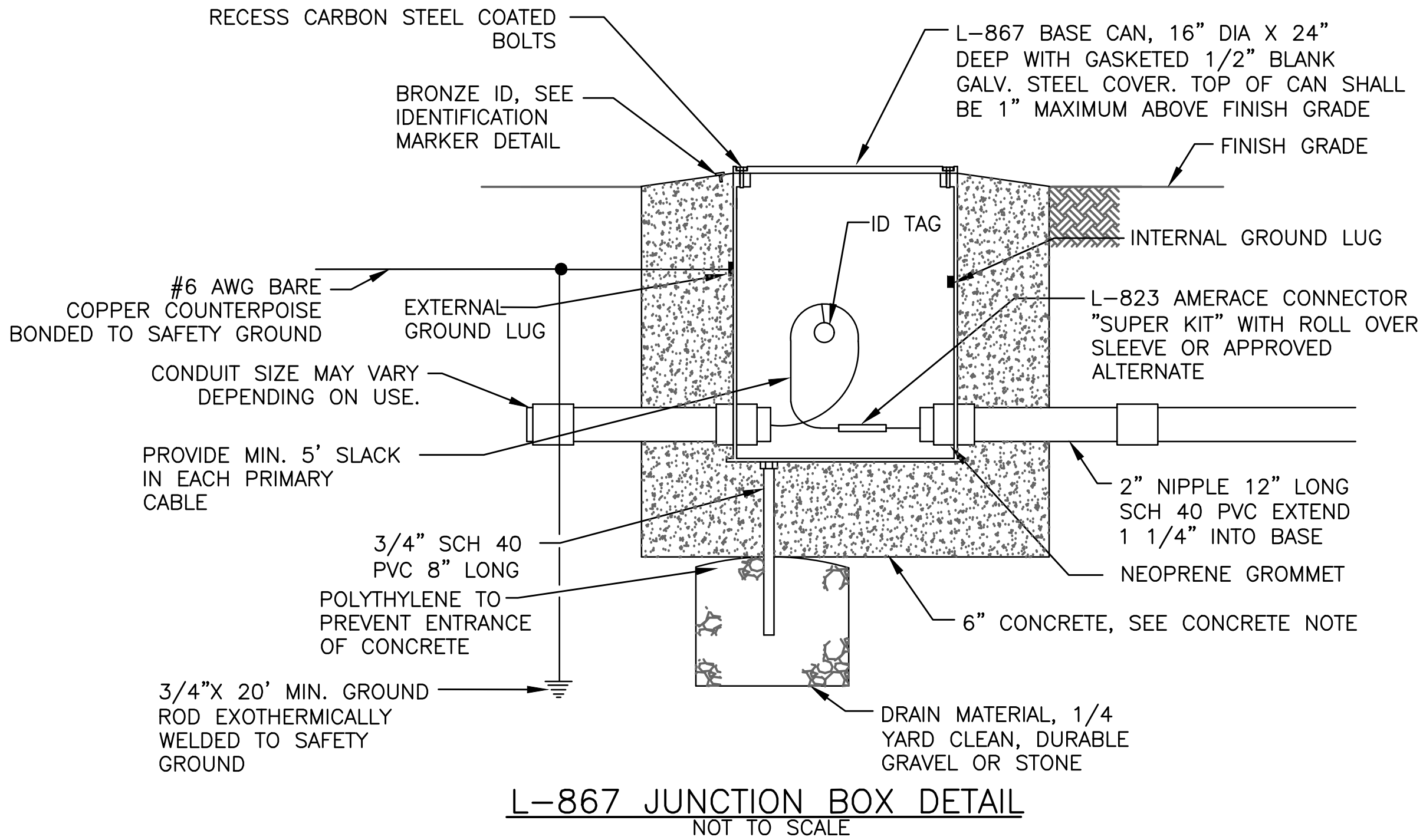
TOTAL: 103

CAD FILE: 12243-E23-DETL

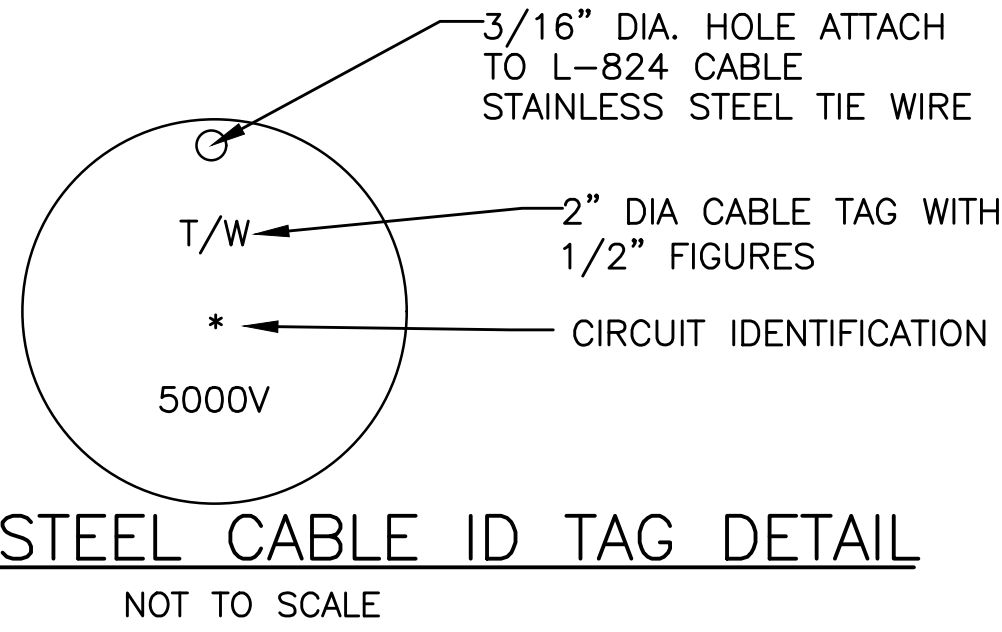
DRAWING FILE NO. 4-141-45

BID SET

E:\PROJECTS\KH\KH99\DWG\12243-E24-DETL.DWG

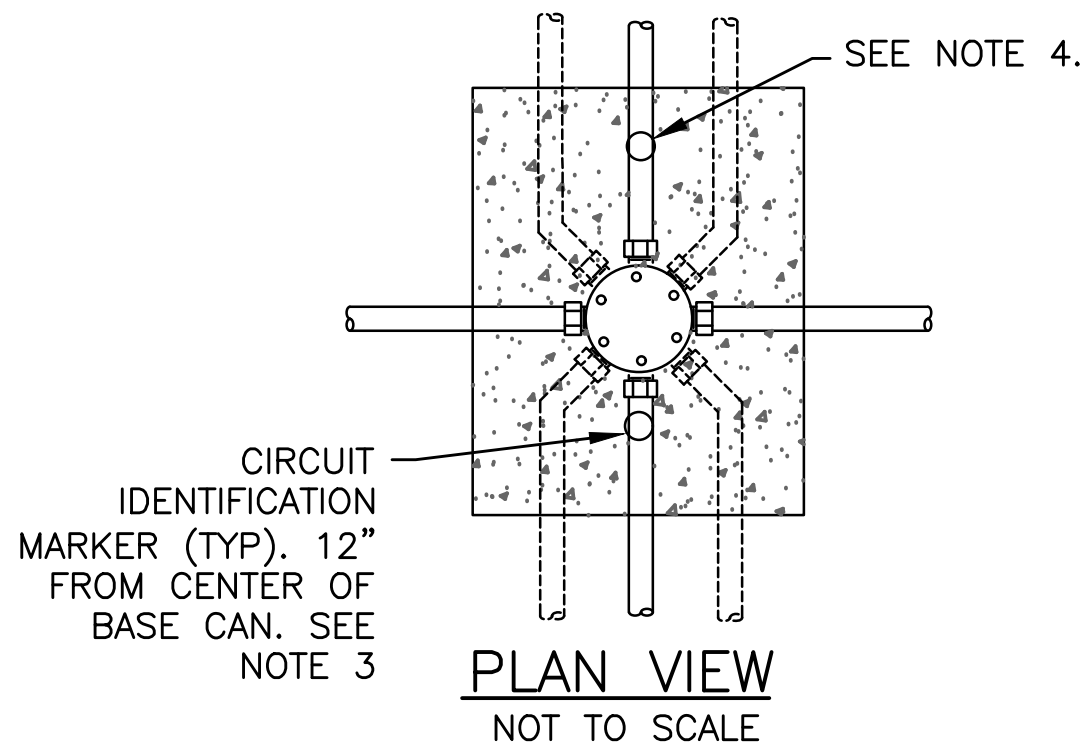
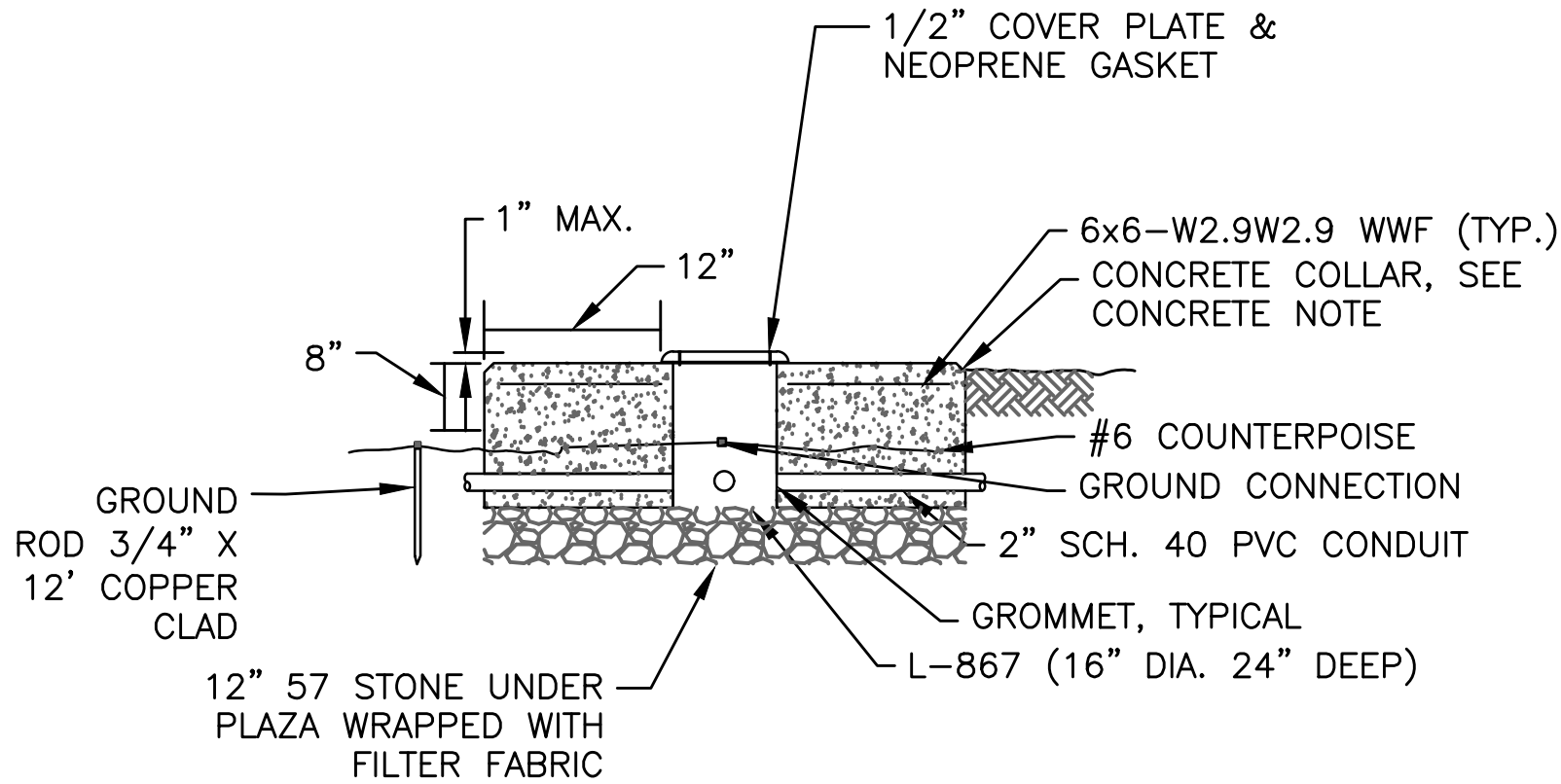


1. IDENTIFICATION SHALL BE STAMPED USING 1/2" FIGURES AND LETTERS UNIFORMLY SPACED ON THE BRONZE MARKER.
2. IDENTIFICATION MARKERS SHALL BE UNIFORMLY INSTALLED ADJACENT TO TAXIWAY AND RUNWAY ELEVATED EDGE LIGHTS. PREFERRED LOCATION IS ON A LINE PERPENDICULAR TO RUNWAY OR TAXIWAY CENTERLINE, INBOARD OF LIGHT FIXTURE.



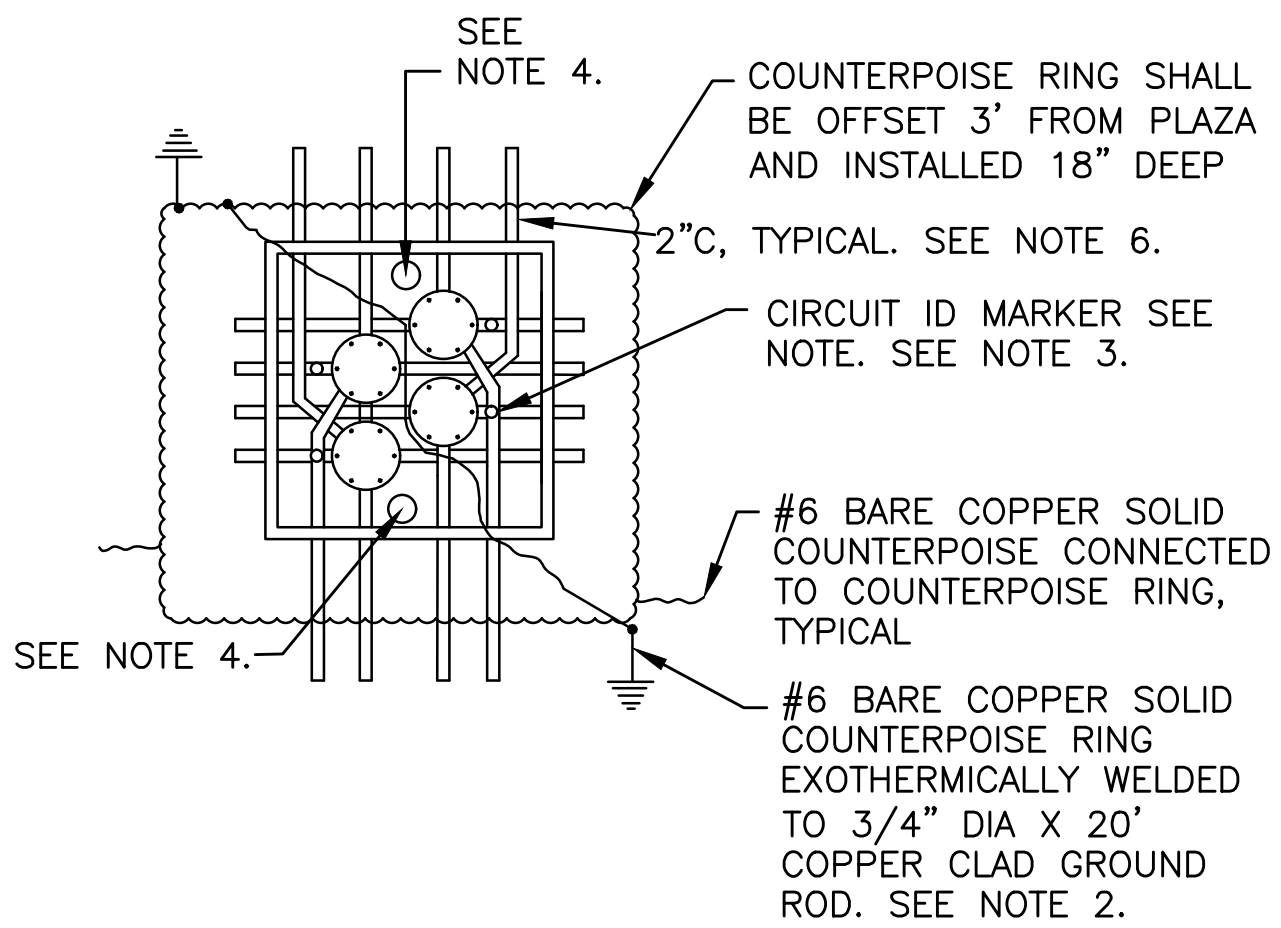
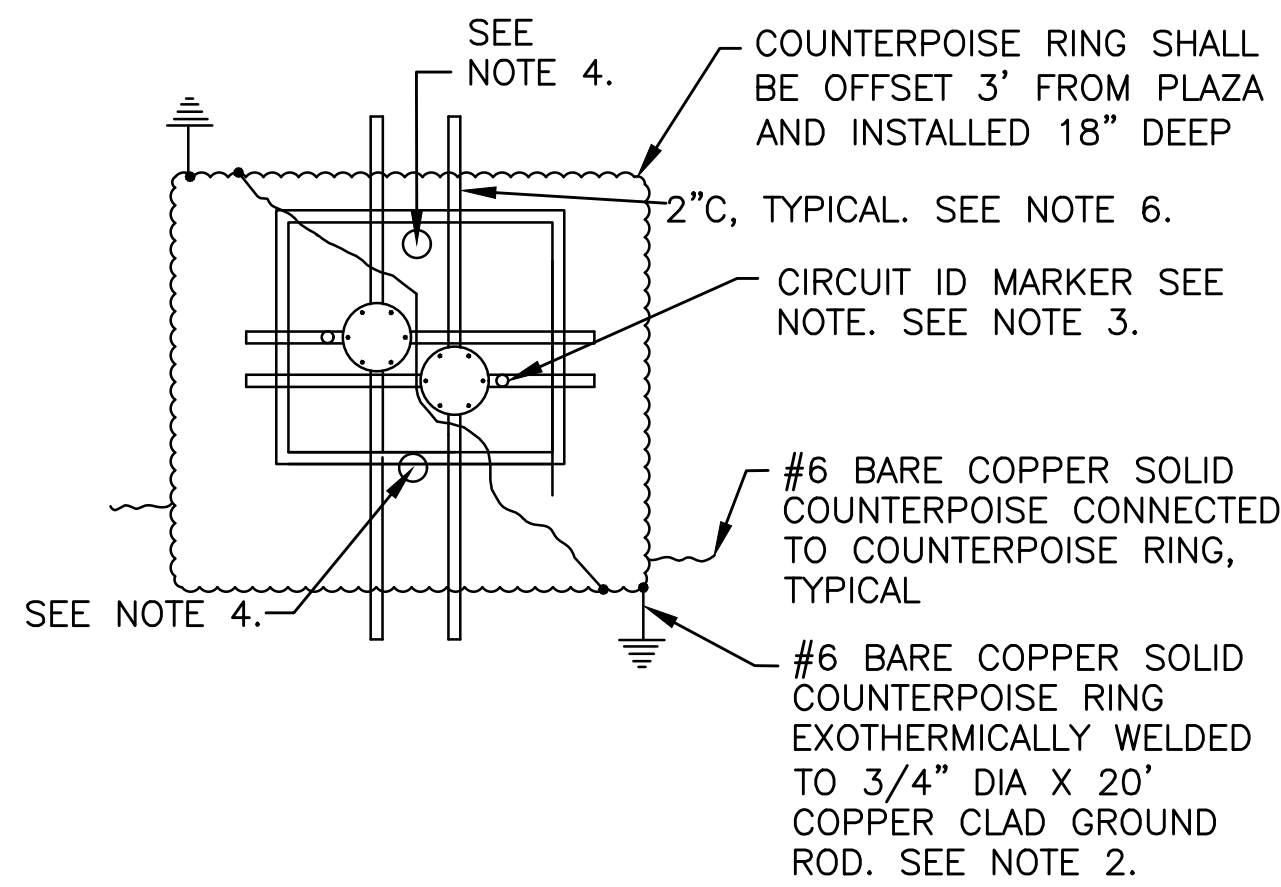
NOTES:

1. NUMBER AND ORIENTATION OF CONDUITS VARY. SEE PLAN SHEETS FOR DETAILS.
2. INSTALL GROUND RODS AT ALL JUNCTION CAN PLAZAS AS SHOWN. TWO GROUND RODS PER PLAZA LOCATED AT OPPOSITE CORNERS SHALL BE PROVIDED.
3. CONTRACTOR SHALL PROVIDE A 2" DIA DOMED BRONZE MARKER AT EACH JUNCTION CAN AS SHOWN. MARKER SHALL BE STAMPED WITH CIRCUIT IDENTIFICATION AS COORDINATED WITH AIRPORT AND ENGINEER. IF CAN IS LEFT EMPTY INSTALL A BLANK MARKER FOR FUTURE USE.
4. CONTRACTOR SHALL PROVIDE A 2" DIA DOMED BRONZE MARKER STAMPED WITH THE PLAZA IDENTIFICATION NUMBER AS SHOWN ON THE DRAWINGS.
5. 2 AND 4 CAN L-867 JUNCTION CANS AND CONDUIT CONFIGURATION. SEE LAYOUT PLAN SHEETS FOR ORIENTATION.
6. EACH CAN SHALL HAVE A MINIMUM OF FOUR OPENINGS, LOCATIONS OF OPENINGS CAN BE AT 0, 45, 90, 135, 180, 225, 270 AND 315 DEGREES THAT EXTEND 3 FEET BEYOND PLAZA EDGE. LOCATIONS WILL VARY DEPENDING ON SIZE OF JUNCTION CAN PLAZA. CONDUIT OPENINGS AT 45, 135, 225 AND 315 DEGREES WILL HAVE A 3" OFFSET FROM THE REMAINING THREE OPENINGS. CONTRACTOR SHALL COORDINATE OPENINGS PRIOR TO INSTALLATION. CANS SHALL NOT BE CONNECTED TOGETHER INSIDE JUNCTION PLAZA. ALL CONDUITS EXITING THE CANS SHALL BE DEDICATED. CONDUITS WHICH ARE NOT USED IN THIS PROJECT SHALL BE CAPPED.
7. CONDUITS WHICH ARE NOT USED IN THIS PROJECT SHALL BE CAPPED 3' OUTSIDE OF PLAZA CONCRETE.
8. CONTRACTOR SHALL COORDINATE THE ORIENTATION OF THE PLAZA WITH THE ENGINEER AND OAR PRIOR INSTALLATION.
9. SEE DETAIL FOR CONNECTION TO JUNCTION CANS.



CONCRETE NOTE: CONCRETE FOR BACKFILL, SIGN PADS AND BASE CANS IN THE RUNWAY/TAXIWAY SAFETY AREAS AND IN EXISTING PAVEMENT WHERE AIRCRAFT TRAFFIC WILL RESUME IMMEDIATELY UPON RE-OPENING, OR IN AREAS OTHERWISE INDICATED IN THE DETAILS AND DRAWINGS SHALL CONFORM TO THE REQUIREMENTS OF P-610 CONCRETE WITH A MINIMUM 5 HOUR STRENGTH OF 2,500 PSI AND A MINIMUM 28 DAY STRENGTH OF 5,000 PSI. A CONCRETE MIX DESIGN SHALL BE SUBMITTED AND APPROVED BEFORE COMMENCEMENT OF WORK.

CONCRETE FOR BACKFILL, SIGN PADS AND BASE CANS NOT IN THE RUNWAY/TAXIWAY SAFETY AREAS OR IN EXISTING PAVEMENT WHERE AIRCRAFT TRAFFIC WILL RESUME IMMEDIATELY UPON RE-OPENING, SHALL CONFORM TO THE REQUIREMENTS OF P-610 CONCRETE WITH A MINIMUM 28 DAY STRENGTH OF 4,000 PSI. A CONCRETE MIX DESIGN SHALL BE SUBMITTED AND APPROVED BEFORE COMMENCEMENT OF WORK.



Kimley-Horn
Kimley-Horn and Associates, Inc.
©2018 KIMLEY-HORN AND ASSOCIATES, INC.
1920 MEDINA WAY, SUITE 200, WEST PALM BEACH, FL 33411
TEL: 561-831-8800 FAX: 561-831-8802
WWW.KIMLEY-HORN.COM

HILLERS ELECTRICAL ENGINEERING, INC.
25557 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33498
(561) 451-9145 PHONE
(561) 451-4555 FAX

State of Florida
Professional Engineer
License No. 73735

AMY L. CHAMPAGNE -
BAKER

DRAWN BY: DEU
DATE: 04-15-2019

DESIGNED BY: ALC
SCALE: NONE

CHECKED BY: JWK
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHKD

PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL DETAILS

SHEET NO. OF
E24 28

TOTAL: 103

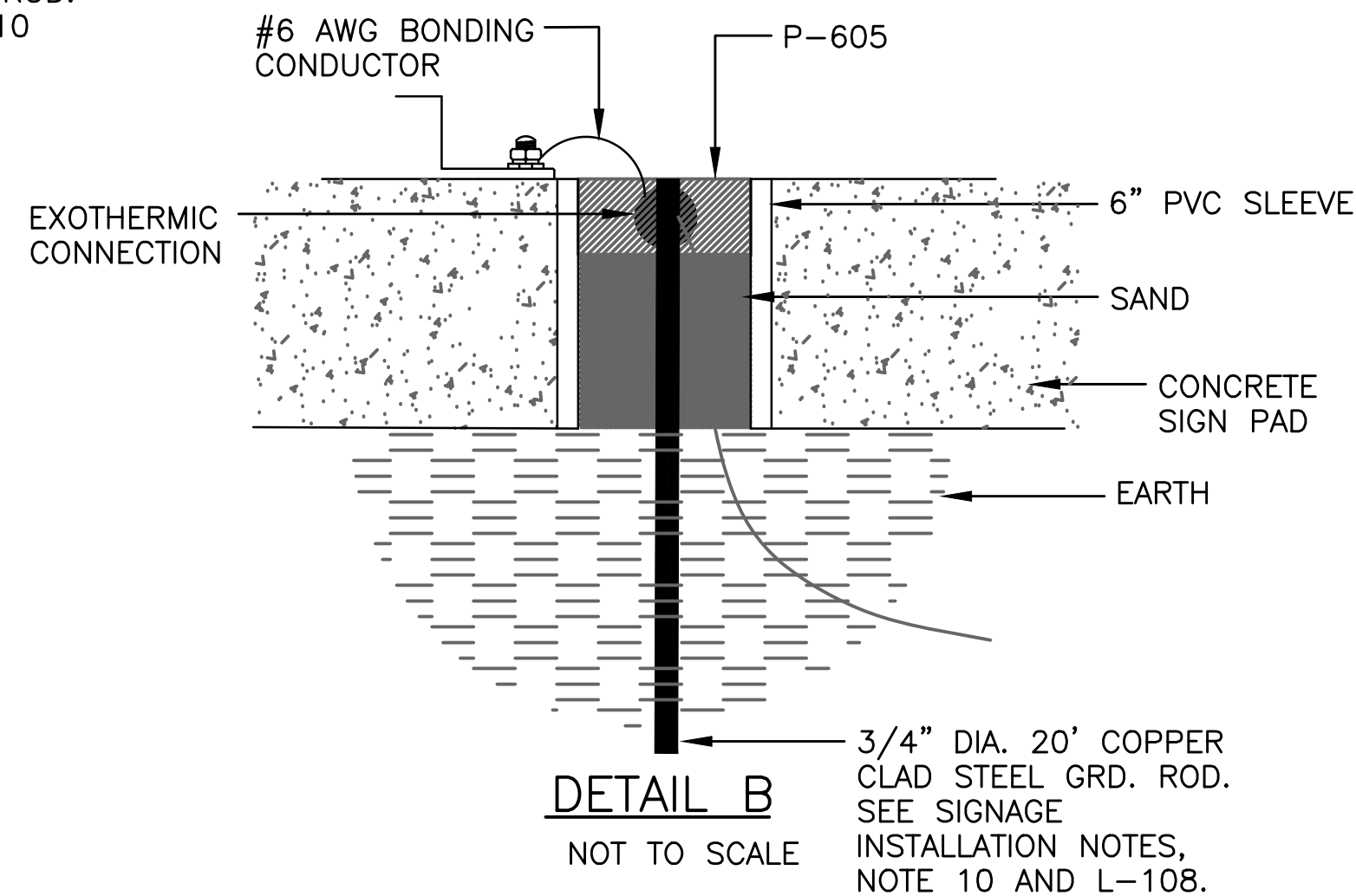
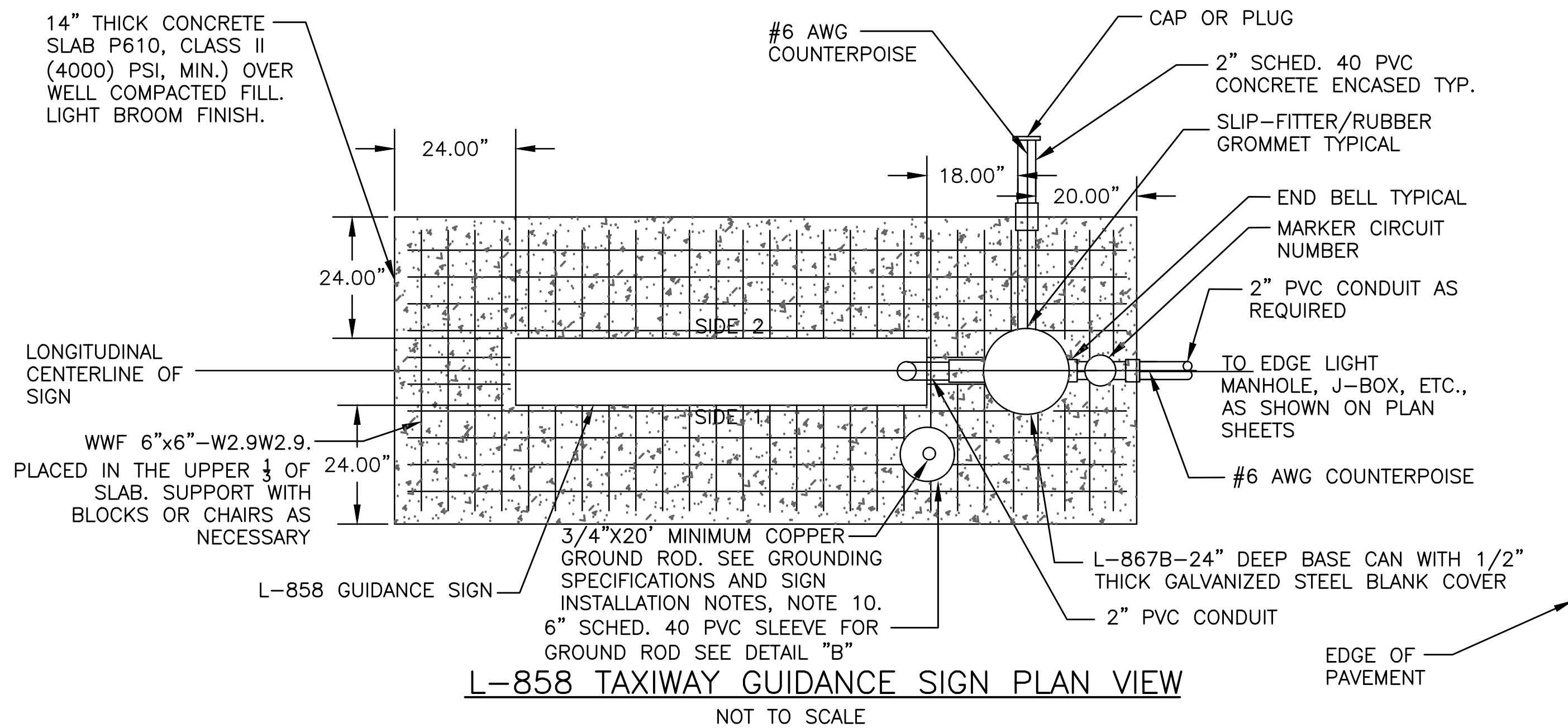
CAD FILE:
12243-E24-DETL

DRAWING FILE NO.
4-141-45

BID SET

1. SIGN IDENTIFICATION STICKERS, MATERIALS, SIGN BASE DETAILS, ETC. SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. THE CONCRETE SHALL COMPLY WITH P-610 SPECIFICATION, CLASS II.
3. P-610 CONCRETE STEEL REINFORCEMENT SHALL BE TYPE ATM A615 GRADE 60. ALL REINFORCEMENTS SHALL HAVE A 2" MINIMUM CONCRETE COVER. REINFORCEMENT MAY BE ADJUSTED TO MISS INTERFERENCES.
4. FOR LOCATION AND ORIENTATION OF SIGN AND FOUNDATION SEE PLANS.
5. THE ORIENTATION, INSTALLATION AND DEPTH OF THE 2" CONDUIT FOR SIGN CIRCUITS SHALL BE COORDINATED WITH THE PLANS.
6. METHODS OF SIGN INSTALLATION INCLUDING BOLT PATTERNS, ANCHOR METHODS AND ATTACHMENT DETAILS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS.
7. ALL SIGNS SHALL BE INSTALLED WITH TETHERS ON A MINIMUM OF 2 LEGS PER SIGN. TETHERS SHALL BE 3/16" STAINLESS STEEL AIRCRAFT CABLE WITH A FORMED EYE ON BOTH ENDS. THE TETHER SHALL BE OF SUFFICIENT LENGTH TO HAVE 2" SLACK (MIN.) WHEN ATTACHED BETWEEN SIGN AND THE FIXTURE PLATE.
8. SIDE VIEW, PLAN VIEW, GRADE AND FILL DETAILS AND DETAILS A AND B ARE TYPICAL FOR ALL SIGNS.
9. ALL CONDUIT SHALL BE 2" SCHEDULE 40 PVC UNLESS NOTED OTHERWISE.
10. THE CONTRACTOR SHALL VERIFY THAT THE 6" SLEEVE IS LARGE ENOUGH TO ACCOMMODATE THE EXOTHERMIC CONNECTION. THE TOP OF THE GROUND ROD SHALL BE FLUSH WITH THE TOP OF THE SLAB. THE GROUND ROD SHALL NOT BE DRIVEN AFTER THE GROUNDING CONNECTION HAS BEEN MADE.
11. ALL SIZE 1 SIGNS SHALL BE INSTALLED AT 15' FROM THE DEFINED EDGE OF PAVEMENT TO THE NEAREST EDGE OF THE GUIDANCE SIGN FRAME. IF A SIGN CANNOT BE INSTALLED AT ITS STANDARD LOCATION DUE TO AN OBSTRUCTION, A TOLERANCE OF 10 TO 20 FEET FROM THE DEFINED EDGE OF PAVEMENT TO THE NEAREST EDGE OF THE GUIDANCE SIGN FRAME IS ALLOWED AS STATED IN FAA AC150/5340-18 LATEST EDITION. SIGNS SHALL BE STAKED IN THE FIELD, ORIENTATION AND LOCATION SHALL BE APPROVED BY THE RPR PRIOR TO INSTALLATION.
12. THE SIGN TETHER AND BONDING CONDUCTOR SHALL NOT BE ATTACHED AT THE SAME ANCHOR BOLT. AN APPROVED MECHANICAL OR COMPRESSION LUG SHALL BE USED TO CONNECT THE BONDING CONDUCTOR TO THE SIGN FLANGE AND SIGN. THE TETHERS AND BONDING CONDUCTORS SHALL BE OF SUFFICIENT LENGTH TO ALLOW THE FRANGIBLE COUPLING TO OPERATE WITHOUT RESTRICTIONS AND TO ALLOW THE CABLE TO UNPLUG IF THE SIGN FALLS OVER.
13. STRUCTURAL FILL FOR SIGN CONCRETE FOUNDATION PADS SHALL BE FREE-DRAINING, AS APPROVED BY THE ENGINEER SHALL BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED 4" IN LOOSE DEPTH AND COMPACT TO 95% MAXIMUM DENSITY AT 0 TO 2% ABOVE OPTIMUM MOISTURE AS DETERMINED BY ASTM D698 PAYMENT FOR EMBANKMENT MATERIALS AND PLACEMENT SHALL BE INCIDENTAL TO SIGN BID ITEM. SLOPE SHALL NOT EXCEED 1:20 WITHOUT PERMISSION OF THE ENGINEER.
14. ALL AREAS FOR THE LEG FLANGE PLATES SHALL BE IN THE SAME PLANE.
15. MINIMUM BURIAL DEPTH OF 2" SCHEDULE 40 PVC CONDUIT IS 24" TO FINISHED GRADE.

CONCRETE FOR BACKFILL, SIGN PADS AND BASE CANS NOT IN THE RUNWAY/TAXIWAY SAFETY AREAS OR IN EXISTING PAVEMENT WHERE AIRCRAFT TRAFFIC WILL RESUME IMMEDIATELY UPON RE-OPENING, SHALL CONFORM TO THE REQUIREMENTS OF P-610 CONCRETE WITH A MINIMUM 28 DAY STRENGTH OF 4,000 PSI. A CONCRETE MIX DESIGN SHALL BE SUBMITTED AND APPROVED BEFORE COMMENCEMENT OF WORK.



SHEET NO.	OF
E25	28
TOTAL: 103	
CAD FILE: 12243-E25-DETL	
DRAWING FILE NO. 4-141-45	

BID SET

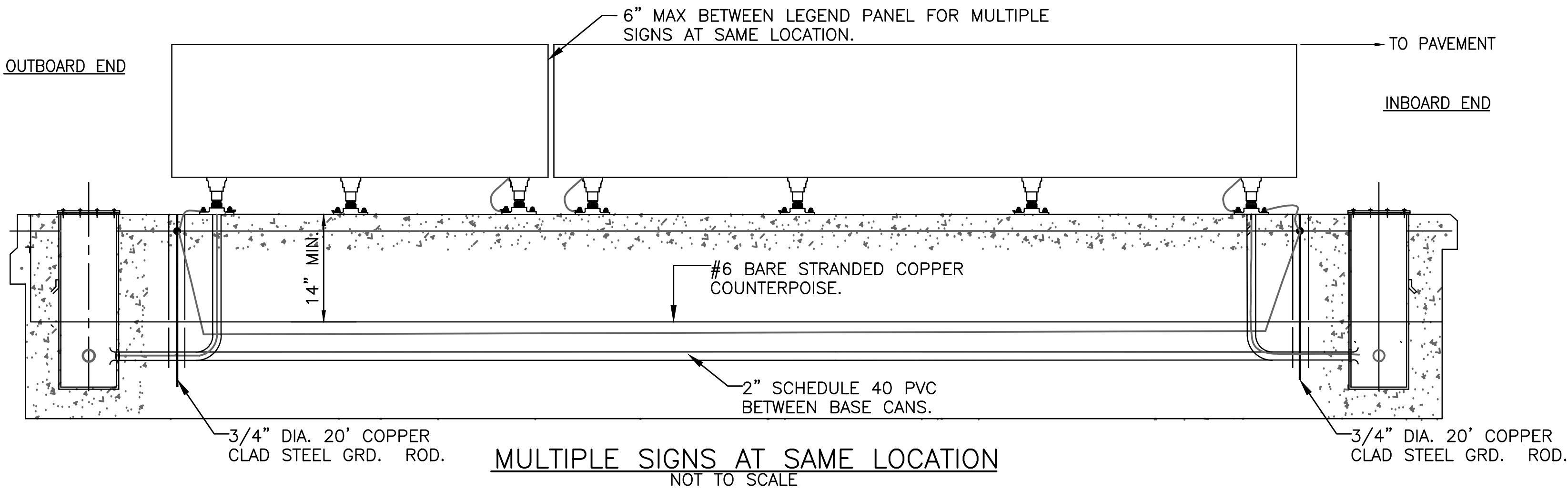
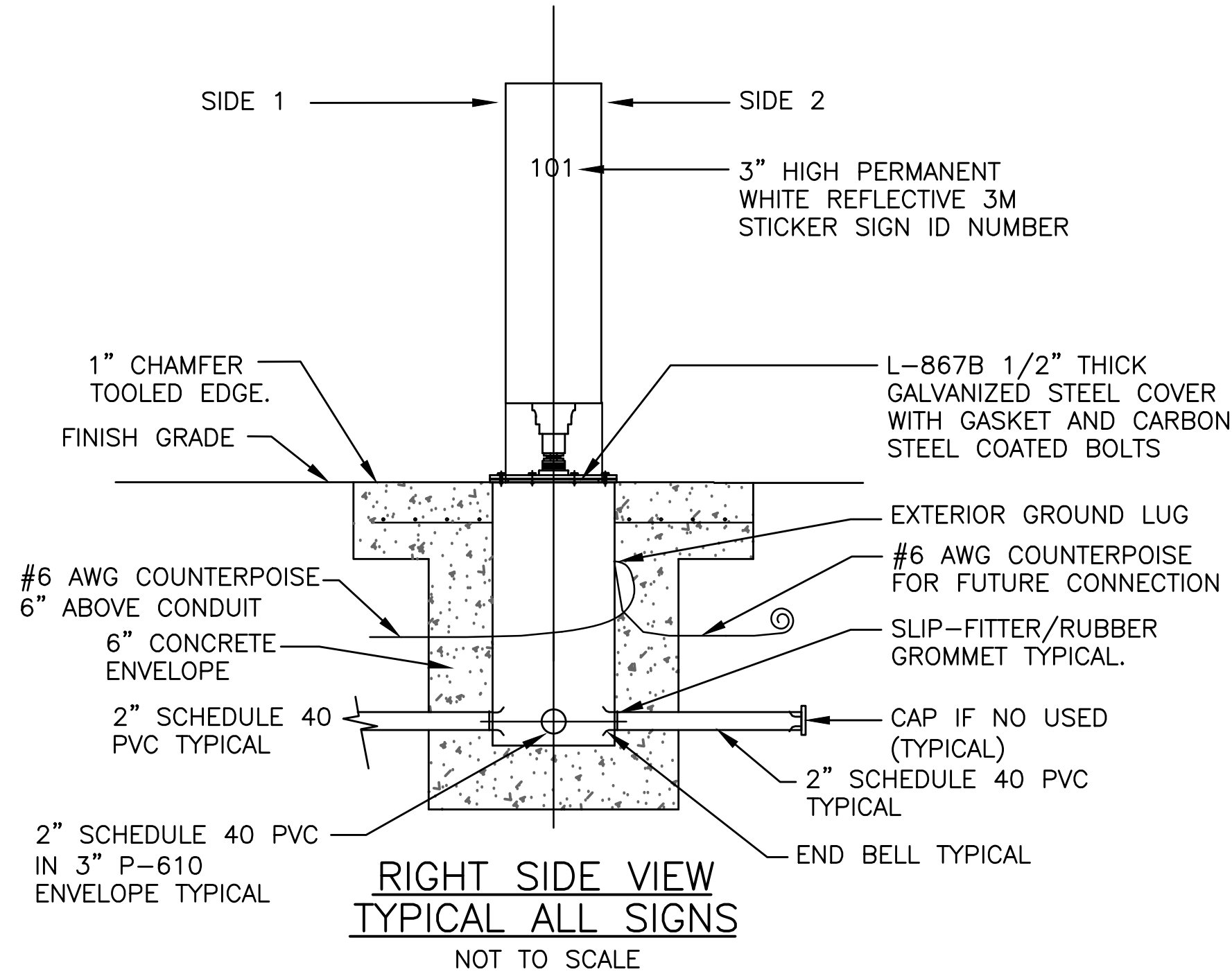
Kimley-Horn
Kimley-Horn and Associates, Inc.
©2016 KIMLEY-HORN AND ASSOCIATES, INC.
1920 WEDGVA WAY, SUITE 200, WEST PALM BEACH, FL 33411
FBPE No. CA 00000696
046493068

**HILLERS ELECTRICAL
ENGINEERING, INC.**
23257 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33428
(561) 451-6185 PHONE
(561) 451-6000 FAX

4/29/2019 8:14 AM

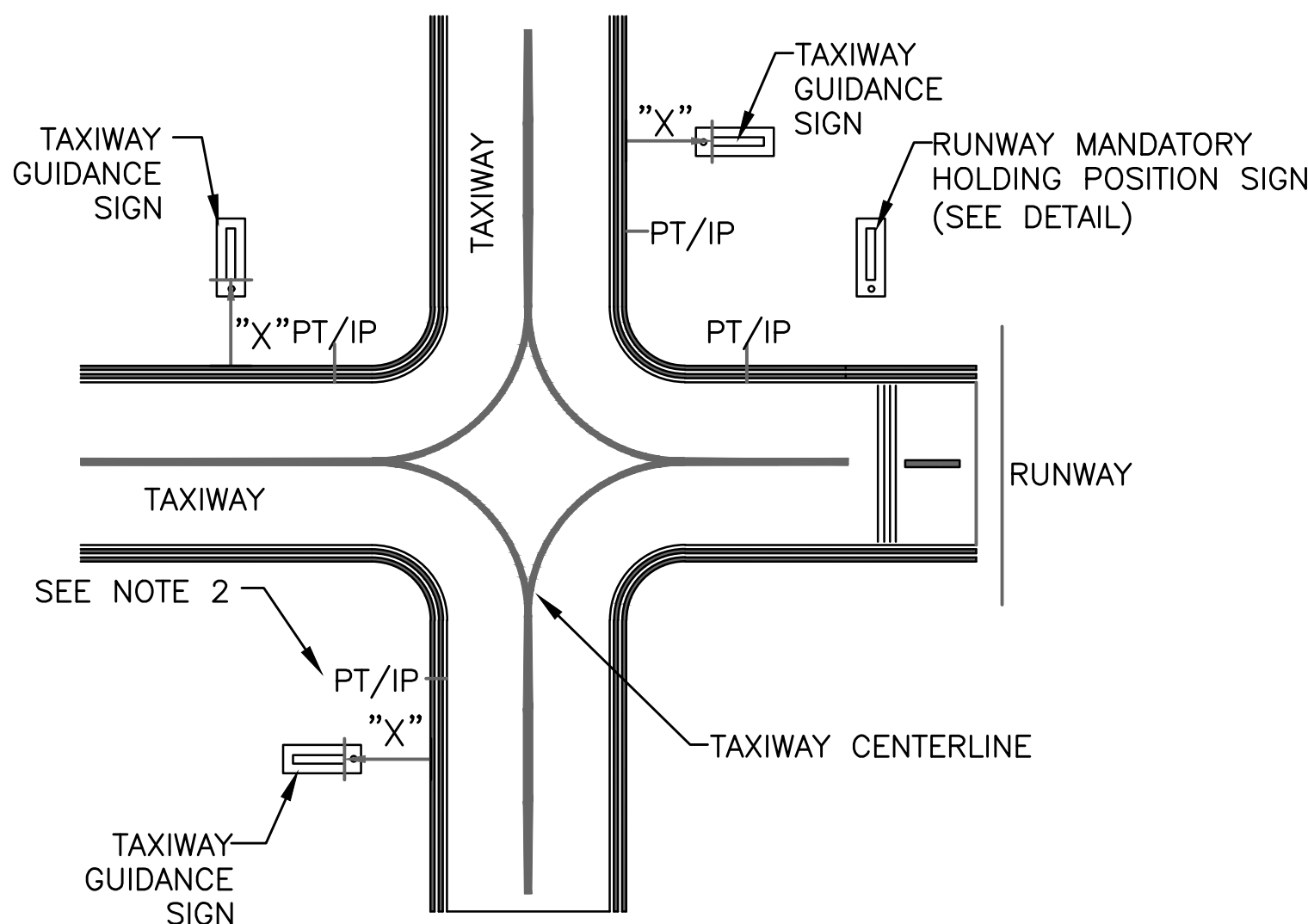
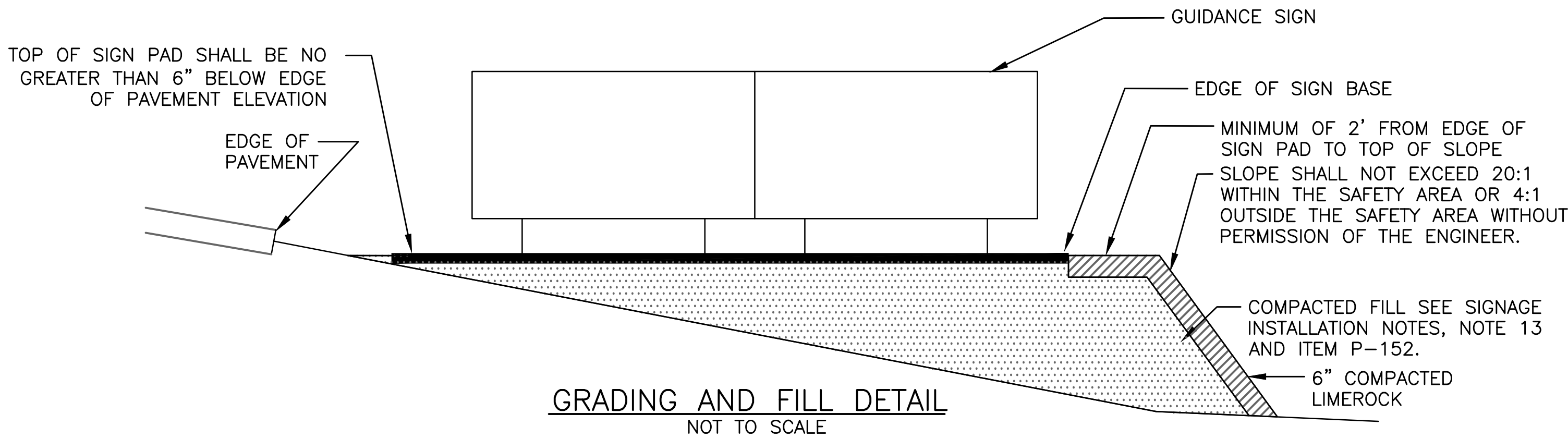
E:\PROJECTS\KH\KH99\DWG\BID\12243-E26-DETL.DWG

p. 693



CONCRETE NOTE: CONCRETE FOR BACKFILL, SIGN PADS AND BASE CANS IN THE RUNWAY/TAXIWAY SAFETY AREAS AND IN EXISTING PAVEMENT WHERE AIRCRAFT TRAFFIC WILL RESUME IMMEDIATELY UPON RE-OPENING, OR IN AREAS OTHERWISE INDICATED IN THE DETAILS AND DRAWINGS SHALL CONFORM TO THE REQUIREMENTS OF P-610 CONCRETE WITH A MINIMUM 5 HOUR STRENGTH OF 2,500 PSI AND A MINIMUM 28 DAY STRENGTH OF 5,000 PSI. A CONCRETE MIX DESIGN SHALL BE SUBMITTED AND APPROVED BEFORE COMMENCEMENT OF WORK.

CONCRETE FOR BACKFILL, SIGN PADS AND BASE CANS NOT IN THE RUNWAY/TAXIWAY SAFETY AREAS OR IN EXISTING PAVEMENT WHERE AIRCRAFT TRAFFIC WILL RESUME IMMEDIATELY UPON RE-OPENING, SHALL CONFORM TO THE REQUIREMENTS OF P-610 CONCRETE WITH A MINIMUM 28 DAY STRENGTH OF 4,000 PSI. A CONCRETE MIX DESIGN SHALL BE SUBMITTED AND APPROVED BEFORE COMMENCEMENT OF WORK.



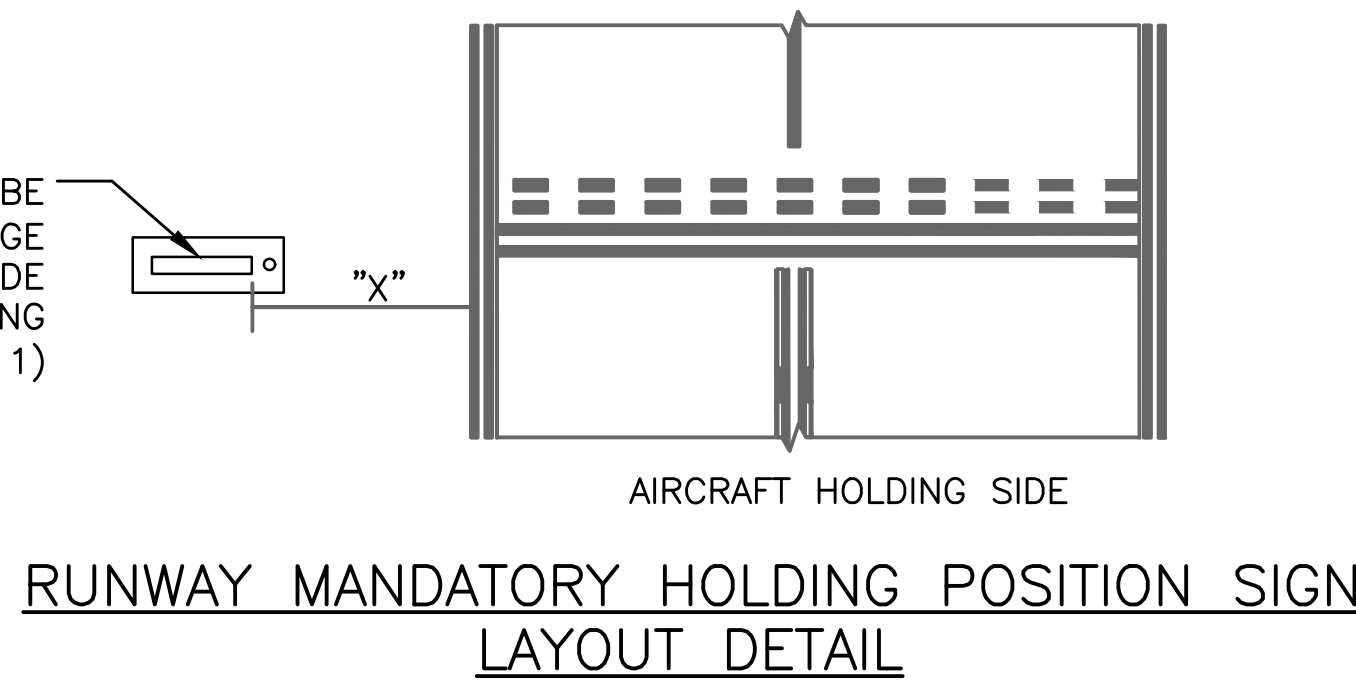
GUIDANCE SIGN TYPICAL OFFSET AND POSITIONS
EXAMPLE OF A PERPENDICULAR TAXIWAY CONNECTOR LESS THAN 150' WIDE
NOT TO SCALE

"X" = OFFSET DISTANCE FROM DEFINED PAVEMENT EDGE (OUTSIDE EDGE OF OUTBOARD STRIPE) TO THE NEAREST EDGE OF THE GUIDANCE SIGN FRAME.
SIZE 1 SIGNS = 15'

SIGN LAYOUT AND OFFSET NOTES:

- MANDATORY HOLDING POSITION SIGNS SHALL BE LOCATED 5' FROM THE FIRST STRIPE CLOSEST TO THE TAXIWAY CENTERLINE OF THE HOLDING POSITION MARKINGS WITH A TOLERANCE OF 0'/+10' FARTHER AWAY FROM HOLD POSITION MARKING, SEE FAA AC150/5340-18, LATEST EDITION.
- RUNWAY EXIT SIGNS AND TAXIWAY GUIDANCE SIGNS SHALL BE TYPICALLY LOCATED 15' PRIOR TO THE POINT OF TANGENCY (PT)/INTERSECTION POINT(IP). SEE GEOMETRY PLANS FOR PT/IP LOCATIONS. ALL SIGNS SHALL BE STAKED IN THE FIELD AND THE FINAL LOCATION APPROVED BY RPR PRIOR TO INSTALLATION.
- ALL SIZE 1 SIGNS SHALL BE INSTALLED AT 15' FROM THE DEFINED EDGE OF PAVEMENT TO THE NEAREST EDGE OF THE GUIDANCE SIGN FRAME. IF A SIGN CANNOT BE INSTALLED AT ITS STANDARD LOCATION DUE TO AN OBSTRUCTION, A TOLERANCE OF 10 TO 20 FEET FROM THE DEFINED EDGE OF PAVEMENT TO THE NEAREST EDGE OF THE GUIDANCE SIGN FRAME IS ALLOWED AS STATED IN FAA AC150/5340-18 LATEST EDITION.
- MANDATORY HOLDING POSITION SIGNS AT LAHSO SHALL BE LOCATED 5' PRIOR TO THE FIRST STRIPE CLOSEST TO THE APPROACHING AIRCRAFT OF THE HOLDING POSITION MARKINGS WITH A TOLERANCE OF 0'/+10' FARTHER AWAY FROM HOLD POSITION MARKING, SEE FAA AC150/5340-18, LATEST EDITION.

BACK FACE OF SIGN SHALL BE INSTALLED AT 5' FROM THE EDGE OF THE AIRCRAFT HOLDING SIDE OF HOLD POSITION MARKING (SEE NOTE 1)



EXAMPLE OF A PERPENDICULAR TAXIWAY CONNECTOR LESS THAN 150' WIDE
NOT TO SCALE

"X" = OFFSET DISTANCE FROM DEFINED PAVEMENT EDGE (OUTSIDE EDGE OF OUTBOARD STRIPE) TO THE NEAREST EDGE OF THE GUIDANCE SIGN FRAME.
SIZE 1 SIGNS = 15'

Kimley-Horn
Kimley-Horn and Associates, Inc.
©2018 KIMLEY-HORN AND ASSOCIATES, INC.
1820 NORTON WAY, SUITE 200, WEST PALM BEACH, FL 33411
TEL: 561-831-9100 FAX: 561-831-9101
WWW.KIMLEY-HORN.COM

HILLERS ELECTRICAL ENGINEERING, INC.
28857 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33433
(561) 481-9100
(561) 481-9101

State of Florida
Professional Engineer
License No. 73735

AMY L. CHAMPAGNE -
BAKER

DRAWN BY: DEU
DATE: 04-15-2019
DESIGNED BY: ALC
SCALE: NONE
CHECKED BY: JWK
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	REVISIONS		DATE	BY	CHKD	DESCRIPTION

PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL SIGNAGE DETAILS

SHEET NO.	OF
E26	28
TOTAL:	103
CAD FILE:	12243-E26-DETL
DRAWING FILE NO.	4-141-45

BID SET

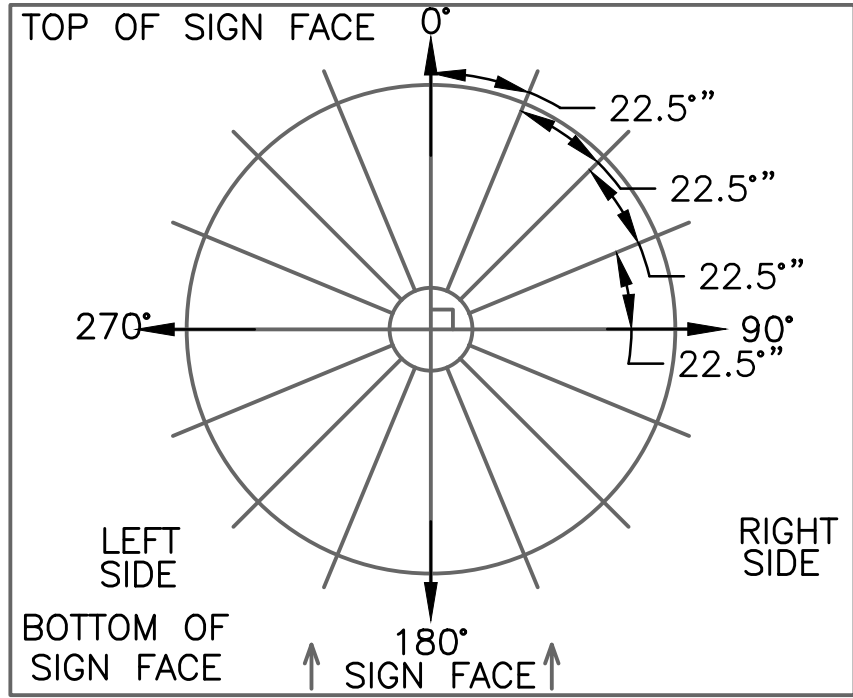
E:\PROJECTS\KH\KH99\DWG\BID\12243-E27-DETL.DWG

NEW LIGHTED SIGN PANEL SCHEDULE													
SIGN NO.	NO. OF CHARACTERS	SIZE	STYLE	LAMP	TYPE		TYPE		CIRCUIT	Sheet No.	Remarks		
					SIDE 1 LEGEND		SIDE 2 LEGEND						
08	5	1	3	LED	L	R	BLANK		RW 9E	E10			
					N	27-9							
10	7	1	3	LED	L	R	BLANK		RW 9E	E12			
					F10	27-9							
11	5	1	2	LED	Y	L	Y	L	BLANK		FE	E12	
					↖ S	S	F ↗	S					
38	4	1	2	LED	L	Y		BLANK		FE	E10		
					N	← F →							
39	4	1	2	LED	L	Y		BLANK		FE	E11		
					D	← F →							
52	3	1	2	LED	Y		L	BLANK		FE	E10		
					← N		F						
55	4	1	2	LED	Y		L	BLANK		FE	E11		
					← F9		F						
56	5	1	2	LED	BLANK			L	Y	FE	E12		
								F	F10 →				
57	3	1	2	LED	Y		L	BLANK		FE	E11		
					← D		F						
58	4	1	2	LED	L	Y		BLANK		FE	E12		
					F	F9 →							
60	6	1	2	LED	L	Y		BLANK		FE	E12		
					F10	← F →							
61	3	1	3	LED	L	R		BLANK		RW 9E	E12		
					S	27							
62	4	1	3	LED	Y			BLANK		RW 9E	E12		
					← F10								
126	2	1	3	LED	Y			BLANK		RW 9E	E11		
					← D								
128	2	1	3	LED	Y			BLANK		RW 9E	E10		
					← N								
233	2	1	3	LED	BLANK			Y		RW 9E	E11		
								D →					
234	5	1	2	LED	Y	L	Y	BLANK		FE	E12		
					↖ S	F	S →						

RELOCATED LIGHTED SIGN PANEL SCHEDULE																				
SIGN NO.	NO. OF CHARACTERS	APPROXIMATE LENGTH OF SIGN	SIZE	STYLE	LAMP	TYPE		TYPE			TYPE		TYPE			CIRCUIT	Sheet No.	Remarks		
						EXISTING SIDE 1 LEGEND		EXISTING SIDE 2 LEGEND			NEW SIDE 1 LEGEND		NEW SIDE 2 LEGEND							
07	3	59 in	1	2	LED	L	Y	BLANK			L	Y	BLANK			FW	E09	RELOCATE EXISTING LED SIGN 07. EXISTING MANUFACTURER: ADB		
						F	F ↗				F	F ↗								
49	4	59 in	1	2	LED	Y		L	BLANK			Y		L	BLANK			FE	E10	RELOCATE EXISTING LED SIGN 51A. EXISTING MANUFACTURER: ADB
						← F7		F				← F7		F						
51	3	59 in	1	2	LED	Y		L	BLANK			L	Y	BLANK			FE	E10	RELOCATE AND REPANEL EXISTING LED SIGN 49. EXISTING MANUFACTURER: ADB	
						↖ F	F				F	N →								
53	4	59 in	1	2	LED	Y		L	BLANK			Y		L	BLANK			FE	E11	RELOCATE EXISTING LED SIGN 53. EXISTING MANUFACTURER: ADB
						← F8		F				← F8		F						
54	5	88 in	1	2	LED	L	Y	BLANK			L	Y	L	BLANK			FE	E11	RELOCATE AND REPANEL EXISTING LED SIGN 54. EXISTING MANUFACTURER: ADB	
						F8	← F →					F8	← F →		F8					
274	7	118 in	1	2	LED	BLANK		L	Y	Y	L	BLANK	Y	L	Y	Y	L	FW	E09	RELOCATE AND REPANEL EXISTING LED SIGN 274. EXISTING MANUFACTURER: ADB
								F	← 13	← F5	F		↖ F	F	← 13	← F5	F			
333	5	88 in	1	2	LED	L	Y	BLANK			L	Y	L	BLANK			FE	E10	RELOCATE AND REPANEL EXISTING LED SIGN 51C. EXISTING MANUFACTURER: ADB	
						F7	← F →					F7	← F →		F7					
334	4	59 in	1	2	LED	L	Y	BLANK			L	Y	BLANK			FE	E10	RELOCATE EXISTING LED SIGN 51B. EXISTING MANUFACTURER: ADB		
						F	F7 →					F	F7 →							
336	4	59 in	1	2	LED	BLANK		L	Y	BLANK			L	Y				FE	E11	RELOCATE EXISTING LED SIGN 54A. EXISTING MANUFACTURER: ADB
								F	F8 →					F	F8 →					

NEW LIGHTED SIGN PANEL SCHEDULE												
SIGN NO.	NO. OF CHARACTERS	SIZE	STYLE	LAMP	TYPE		TYPE		CIRCUIT	Sheet No.	Remarks	
					SIDE 1 LEGEND		SIDE 2 LEGEND					
302	2	1	3	LED	Y		BLANK		RW 9E	E12		
					← S							
305	2	1	3	LED	BLANK		Y		RW 9E	E10		
							N →					
306	5	1	2	LED	L	Y	BLANK		FE	E11		
					F9	← F →						
311	5	1	3	LED	L	R	BLANK		RW 9E	E11		
					D	27-9						
320	3	1	3	LED	BLANK		R		RW 9E	E12		
							F10					
321	3	1	3	LED	R		BLANK		RW 9E	E12		
					F10							
335	3	1	2	LED	BLANK		L	Y	FE	E11		
							F	D →				
337	5	1	2	LED	Y		L	BLANK		FE	E12	
					← F10		F					
338	5	1	2	LED	Y	L	Y	BLANK		FE	E12	
					← F	S	S ↗					

ARROW ROTATION ANGLE DATA
AS VIEWED LOOKING AT SIGN FACE



SIGN PANEL NOTES:

- ARROWS INDICATE DIRECTION OF TAXIWAYS.
- ALL NEW SIGNS SHALL HAVE A FLAT/VERTICAL FACE.
- IT IS THE RESPONSIBILITY OF CONTRACTOR TO ENSURE THAT THE DIRECTIONAL ARROWS ON ANGLED TAXIWAYS (NOT 90°) MATCHES CENTERLINE OF REFERENCED TAXIWAY TO THE NEAREST 22.5°: SEE ROSE COMPASS FOR GUIDANCE.
- CONTRACTOR SHALL PROVIDE ALL SIGN LEGENDS AND BLANK PANELS REQUIRED BY THE SIGN PANEL SCHEDULE, MANUFACTURER AND FAA AC150/5340-18, LATEST EDITION.
- CONTRACTOR SHALL PROVIDE MESSAGE DIVIDERS ON NEW AND EXISTING SIGNS TO BE REPANELED PER AC150/5340-18, LATEST EDITION. MESSAGE DIVIDERS SHALL BE INCLUSIVE TO THE LINE ITEMS FOR SIGNAGE.
- SIGNS SHALL BE PAID BY CHARACTER, UNLESS OTHERWISE INDICATED. ONE CHARACTER SHALL BE DEFINED AS 1 LETTER, NUMERAL OR SPECIAL CHARACTER/PUNCTUATION REGARDLESS OF TEXT OR BACKGROUND COLOR CHANGES. SIGNS SHALL BE PAID FOR BY THE SIGN SIDE THAT HAS THE GREATEST NUMBER OF CHARACTERS AND SHALL NOT ACCOUNT FOR MESSAGE DIVIDERS OR CHANGE OF BACKGROUND COLOR. PANELS FOR BOTH SIDES OF SIGN SHALL BE INCLUSIVE TO THE LINE ITEM.

SIGN LEGEND NOTES:

SIGN TYPES:

- L = TAXI LOCATION SIGN, BLACK BACKGROUND WITH YELLOW LETTERING AND A YELLOW BORDER.
- D = RUNWAY DISTANCE TO GO SIGN, BLACK BACKGROUND WITH WHITE LETTERING.
- Y = TAXIWAY DIRECTIONAL SIGN, YELLOW BACKGROUND WITH BLACK LETTERING.
- R = MANDATORY HOLD SIGN, RED BACKGROUND WITH WHITE LETTERING OUTLINED IN BLACK.
- I = INFORMATIONAL SIGN WITH YELLOW BACKGROUND WITH BLACK LETTERING

Kimley-Horn
Kimley-Horn and Associates, Inc.
©2019 KIMLEY-HORN AND ASSOCIATES, INC.
1620 MIDWAY WAY, SUITE 200, WEST PALM BEACH, FL 33411
TEL: 561-841-0000
FAX: 561-841-0000

HILLERS ELECTRICAL ENGINEERING, INC.
25557 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33498
(561) 451-5145 PHONE
(561) 451-4555 FAX

BID SET

State of Florida
Professional Engineer
License No. 73735

DATE: 04-15-2019
DESIGNED BY: DEU
CHECKED BY: ALC
FIELD BOOK: JWK

AMY L. CHAMPAGNE - BAKER

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

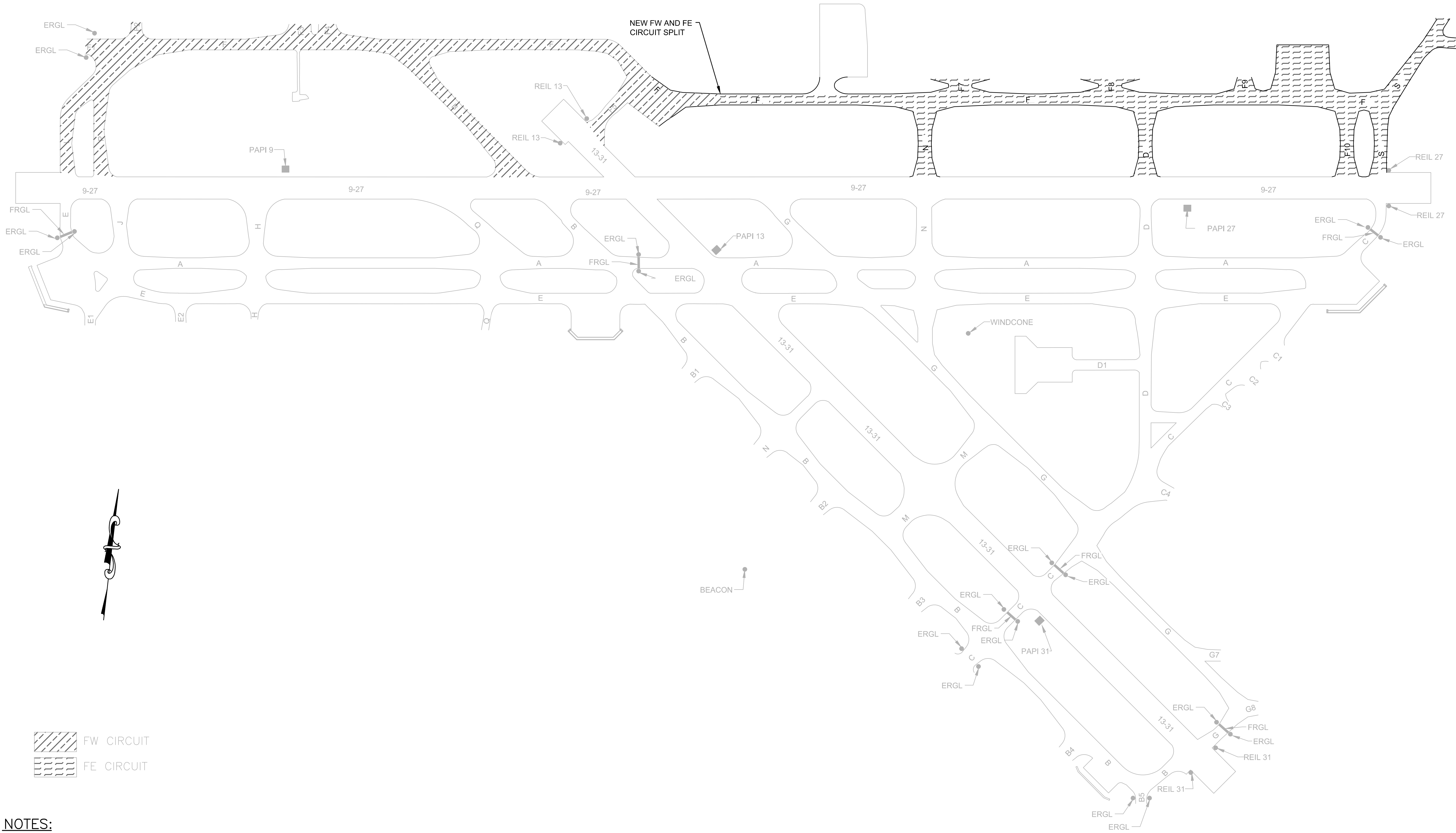
REVISIONS
NO. DATE BY CHECK DESCRIPTION

PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL SIGNAGE DETAILS

SHEET NO. OF
E27 28
TOTAL: 103
CAD FILE: 12243-E27-DETL
DRAWING FILE NO. 4-141-45

CAM #19-1062
Exhibit 3D - Part 4 of 4
Page 34 of 53

E:\PROJECTS\KH\KH99\DWG\BID\12243-E28-DETL.DWG



NOTES:

1. CONTRACTOR SHALL UTILIZE THE ABOVE GRAPHIC FOR MODIFICATIONS TO THE EXISTING TOUCH SCREENS AND LAPTOP SYSTEMS.
2. TAXIWAY CIRCUIT "FC" HAS BEEN ELIMINATED AND COMBINED WITH BOTH TAXIWAY CIRCUITS "FW" AND "FE".
3. TAXIWAY FOXTROT EAST OF RUNWAY 13 WILL BE RELOCATED UNDER THIS PROJECT. THE GRAPHIC SHOWN ON THIS SHEET DEPICTS THE NEW LOCATION OF TAXIWAY FOXTROT.

Kimley-Horn
Kimley-Horn and Associates, Inc.
©2018 KIMLEY-HORN AND ASSOCIATES, INC.
1620 NW 10TH AVE, SUITE 200, WEST PALM BEACH, FL 33411
FIDIC No. CA 00000000
044683088

**HILLERS ELECTRICAL
ENGINEERING, INC.**
25257 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33488
(561) 451-9149 PHONE
(561) 451-4888 FAX

BID SET

PROJECT # 12243
TAXIWAY FOXTROT
RELOCATION PROJECT
ELECTRICAL ALCMS TOUCH
SCREEN GRAPHICS

NO.	DATE	BY	CHK'D	REVISIONS	DESCRIPTION

SHEET NO.	OF
E28	28

TOTAL: 103

CAD FILE: 12243-E28-DETL

DRAWING FILE NO. 4-141-45

State of Florida
Professional Engineer
License No. 73735

AMY L. CHAMPAGNE -
BAKER

DATE: 04-15-2019
DRAWN BY: DEU
DESIGNED BY: ALC
CHECKED BY: JWK
FIELD BOOK: 33301

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

BID 12277-593

CERTIFICATION OF RESTRICTIONS ON LOBBYING

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) NO Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit standard Form-LLL, "Disclosure of Lobby Activities," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclosure accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into, submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of no less than \$10,000 and not more than \$100,000 for each such failure.

Signed _____ Dated _____
Contractor's Authorized Representative

1. CERTIFICATE OF BUY AMERICAN COMPLIANCE – TOTAL FACILITY

As a matter of bid responsiveness, the bidder proposer must complete, sign, date, and submit this certification statement with their proposal. The bidder or proposer must indicate how they intend to comply with 49 USC § 50101 by selecting one of the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (i.e. not both) by inserting a checkmark (✓) or the letter "X".

- ☐ Bidder or proposer hereby certifies that it will comply with 49 USC. 50101 by:
- a) Only installing steel and manufactured products produced in the United States; or
 - b) Installing manufactured products for which the FAA has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing; or
 - c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or proposer agrees:

1. To provide to the City evidence that documents the source and origin of the steel and manufactured product.
 2. To faithfully comply with providing US domestic products.
 3. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.
- ☐ The bidder or proposer hereby certifies it cannot comply with the 100% Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or proposer with the apparent low bid agrees:

1. To the submit to the City within 15 calendar days of the bid opening, a formal waiver request and required documentation that support the type of waiver being requested.
2. That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination that may result in rejection of the proposal.
3. To faithfully comply with providing US domestic products at or above the approved US domestic content percentage as approved by the FAA.
4. To furnish US domestic product for any waiver request that the FAA rejects.
5. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

Required Documentation

Type 3 Waiver - The cost of components and subcomponents produced in the United States is more that 60% of the cost of all components and subcomponents of the "facility". The required documentation for a type 3 waiver is:

- a) Listing of all manufactured products that are not comprised of 100% US domestic content (Excludes products listed on the FAA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety)

- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly and installation at project location.
- c) Percentage of non-domestic component and subcomponent cost as compared to total "facility" component and subcomponent costs, excluding labor costs associated with final assembly and installation at project location.

Type 4 Waiver – Total cost of project using US domestic source product exceeds the total project cost using non-domestic product by 25%. The required documentation for a type 4 of waiver is:

- a) Detailed cost information for total project using US domestic product
- b) Detailed cost information for total project using non-domestic product

False Statements: Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Date	Signature
Company Name	Title

2. **CERTIFICATE OF BUY AMERICAN COMPLIANCE FOR MANUFACTURED PRODUCTS**

As a matter of bid responsiveness, the bidder or proposer must complete, sign, date, and submit this certification statement with their proposal. The bidder or proposer must indicate how they intend to comply with 49 USC § 50101 by selecting one on the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (not both) by inserting a checkmark (✓) or the letter "X".

- ☐ Bidder or proposer hereby certifies that it will comply with 49 USC § 50101 by:
- a) Only installing steel and manufactured products produced in the United States, or;
 - b) Installing manufactured products for which the FAA has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing, or;
 - c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or proposer agrees:

- 1. To provide to the City evidence that documents the source and origin of the steel and manufactured product.
- 2. To faithfully comply with providing US domestic product
- 3. To furnish US domestic product for any waiver request that the FAA rejects.
- 4. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

- ☐ The bidder or proposer hereby certifies it cannot comply with the 100% Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or proposer with the apparent low bid agrees:

1. To the submit to the City within 15 calendar days of the bid opening, a formal waiver request and required documentation that support the type of waiver being requested.
2. That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination may result in rejection of the proposal.
3. To faithfully comply with providing US domestic products at or above the approved US domestic content percentage as approved by the FAA.
4. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

Required Documentation

Type 3 Waiver - The cost of the item components and subcomponents produced in the United States is more that 60% of the cost of all components and subcomponents of the "item". The required documentation for a type 3 waiver is:

- a) Listing of all product components and subcomponents that are not comprised of 100% US domestic content (Excludes products listed on the FAA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).
- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly at place of manufacture.
- c) Percentage of non-domestic component and subcomponent cost as compared to total "item" component and subcomponent costs, excluding labor costs associated with final assembly at place of manufacture.

Type 4 Waiver – Total cost of project using US domestic source product exceeds the total project cost using non-domestic product by 25%. The required documentation for a type 4 of waiver is:

- a) Detailed cost information for total project using US domestic product
- b) Detailed cost information for total project using non-domestic product

False Statements: Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Date

Signature

Company Name

Title

DISADVANTAGED BUSINESS ENTERPRISE**Regulations: 49 CFR Part 26**

The City of Fort Lauderdale's overall DBE race-conscious goal for this project is **7.70%**. The bidder shall exercise a good faith effort towards attainment of the overall goal. The bidder's performance towards attainment of the overall goal is to be measured as a percentage of the total dollar value of the contract. Contractors or subcontractors proposed for meeting the overall DBE goal **MUST BE CERTIFIED** as a DBE by one of the following public agencies: Palm Beach County, Broward County, Miami-Dade County, Florida Department of Transportation, or other public agency whose requirement for DBE certification are functionally equivalent to or more stringent than any of the above-listed agencies. The bidder must submit evidence of such **CERTIFICATION** with the bid. Previous or current **REGISTRATION** as a DBE contractor with the City of Fort Lauderdale, by itself, does not meet the above requirements, nor does completion of City of Fort Lauderdale "Prime Contractor Identification Form(s)" provided herein. Those forms are intended for purposes of identification and registration only, and do not meet the certification requirements for this project. Bidder must also submit evidence of current **CERTIFICATION** for proposed DBE contractors under other qualifying program(s) as identified above, with the bid proposal. The owner requires the submission of Forms 1 & 2 with the bid proposal.

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 socially and economically disadvantaged)

The bidder may be required to submit supplemental information in accordance with Appendix A, Part III, to document good faith efforts towards meeting the overall DBE Participation goal.

SEE DEFINITIONS IN APPENDIX A, PART III, SHEET DBE-5.

Demonstration of Good Faith Efforts - Forms 1 & 2**FORM 1: DISADVANTAGED BUSINESS ENTERPRISE (DBE) UTILIZATION**

The undersigned bidder/offeror has satisfied the requirements of the bid specification in the following manner (please check the appropriate space):

_____ The bidder/offeror is committed to a minimum of _____ % DBE utilization on this contract.

_____ The bidder/offeror (if unable to meet the DBE goal of _____ %) is committed to a minimum of _____ % DBE utilization on this contract and should submit documentation demonstrating good faith efforts.

Name of bidder/offeror's firm: _____

State Registration No. _____

By _____
(Signature) Title

FORM 2: LETTER OF INTENT

Name of bidder/offeror's firm: _____

Address: _____

City: _____ State: _____ Zip: _____

Name of DBE firm: _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone: _____

Description of work to be performed by DBE firm:

The bidder/offeror is committed to utilizing the above-named DBE firm for the work described above.
The estimated dollar value of this work is \$ _____.

Affirmation

The above-named DBE firm affirms that it will perform the portion of the contract for the estimated dollar value as stated above and that the firm is DBE certified to perform the specific trades.

By _____
(Signature)

Date: _____

(Title)

If the bidder/offeror does not receive award of the prime contract, any and all representations in this Letter of Intent and Affirmation shall be null and void.

Submit this page for each DBE subcontractor.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT

MINORITY BUSINESS ENTERPRISE (MBE) - WOMEN BUSINESS ENTERPRISE (WBE)

PRIME CONTRACTOR IDENTIFICATION FORM

In order to assist us in identifying the status of those companies doing business with the City of Fort Lauderdale, this form must be completed and returned with your bid package.

Name of Firm:

Address of Firm:

Telephone Number:

Name of Person Completing
Form:

Title:

Signature:

Date:

City Project Number:

City Project Description:

Please check the item(s) which properly identify the status of your firm:

- ☐ Our firm is not a MBE or WBE.
- ☐ Our firm is a MBE, as at least 51 percent is owned and operated by one or more socially and economically disadvantaged individuals.
- ☐ American Indian ☐ Asian ☐ Black ☐ Hispanic
- ☐ Our firm is a WBE, as at least 51 percent is owned and operated by one or more women.
- ☐ American Indian ☐ Asian ☐ Black ☐ Hispanic



MBE/WBE CONTRACTOR INFORMATION

The City, in a continuing effort, is encouraging the increased participation of minority and women-owned businesses in Public Works Department related contracts. Along those lines, we are requiring that each firm provide documentation detailing their own programs for utilizing minority and women-owned businesses.

Submit this information as a part of this bid package and refer to the checklist, to ensure that all areas of concern are covered. The low responsive bidder may be contacted to schedule a meeting to discuss these objectives. It is our intention to proceed as quickly as possible with this project, so your cooperation in this matter is appreciated.

CONTRACTOR CHECKLIST

- ☐ List Previous City of Fort Lauderdale Contracts

	5
	6

- ☐ Number of Employees in your firm

--Percent () Women

--Percent () Minorities

--Job Classifications of Women and Minorities

	5
	6

- ☐ Use of minority and/or women subcontractors on past projects.

	5
	6

- ☐ Nature of the work subcontracted to minority and/or women-owned firms.

	5
	6

- ☐ How are subcontractors notified of available opportunities with your firm?

	5
	6

☐ Anticipated amount to be subcontracted on this project.

	5
	6

☐ Anticipated amount to be subcontracted to minority and/or women-owned businesses on this project.

	5
	6

6

QUESTIONNAIRE SHEET

PLEASE PRINT OR TYPE:

Firm Name: President

Business Address:

Telephone:

Fax:

E-Mail Address:

What was the last project of this nature which you completed? Include the year, description, and contract value.

The following are named as three corporations and representatives of those corporations for which you have performed work similar to that required by this contract, and which the City may contact as your references (include addresses, telephone numbers and e-mail addresses). Include the project name, year, description, and contract value.

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

How many years has your organization been in business?

Have you ever failed to complete work awarded to you; if so, where and why?

The name of the qualifying agent for the firm and his position is:

Certificate of Competency Number of Qualifying Agent:

Effective Date: Expiration Date:

Licensed in: Engineering Contractor's License #

(County/State)

Expiration Date:

NOTE: To be considered for award of this contract, the bidder must submit a financial statement upon request.

NOTE: Contractor must have proper licensing and shall provide copy of same with his proposal.

QUESTIONNAIRE SHEET

1. Have you personally inspected the proposed work and have you a complete plan for its performance?

	5
	6

2. Will you sublet any part of this work? If so, list the portions or specialties of the work that you will.

a)

--

b)

--

c)

--

d)

--

e)

--

f)

--

g)

--

3. What equipment do you own that is available for the work?

	5
	6

4. What equipment will you purchase for the proposed work?

	5
	6

5. What equipment will you rent for the proposed work?

	5
	6

5

NON-COLLUSION STATEMENT:

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g. ownership of five (5) percent or more).

3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

NAME**RELATIONSHIPS**

-

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

6

3

4

5

**CONTRACTOR'S CERTIFICATE OF COMPLIANCE WITH
NON-DISCRIMINATION PROVISIONS OF THE CONTRACT**

The completed and signed form should be returned with the Contractor's submittal. If not provided with submittal, the Contractor must submit within three business days of City's request. Contractor may be deemed non-responsive for failure to fully comply within stated timeframes.

Pursuant to City Ordinance Sec. 2-187(c), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

The Contractor shall not, in any of his/her/its activities, including employment, discriminate against any individual on the basis of race, color, national origin, religion, creed, sex, disability, sexual orientation, gender, gender identity, gender expression, or marital status.

1. The Contractor certifies and represents that he/she/it will comply with Section 2-187, Code of Ordinances of the City of Fort Lauderdale, Florida, as amended by Ordinance C-18-33 (collectively, "Section 2-187").
2. The failure of the Contractor to comply with Section 2-187 shall be deemed to be a material breach of this Agreement, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.
3. The City may terminate this Agreement if the Contractor fails to comply with Section 2-187.
4. The City may retain all monies due or to become due until the Contractor complies with Section 2-187.
5. The Contractor may be subject to debarment or suspension proceedings. Such proceedings will be consistent with the procedures in section 2-183 of the Code of Ordinances of the City of Fort Lauderdale, Florida.

Authorized Signature

Print Name and Title

Date

6

CONSTRUCTION BID CERTIFICATION

Please Note: All fields below must be completed. If the field does not apply to you, please note N/A in that field. If you are a foreign corporation, you may be required to obtain a certificate of authority from the department of state, in accordance with Florida Statute §607.1501 (visit <http://www.dos.state.fl.us/>).

Company: (Legal Registration)

Address:

City: State: Zip:

Telephone No. FAX No. Email:

Does your firm qualify for MBE or WBE status: MBE ☐ WBE ☐

If a corporation, state the name of the President, Secretary and Resident Agent. If a partnership, state the names of all partners. If a trade name, state the names of the individuals who do business under the trade name.

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

ADDENDUM ACKNOWLEDGEMENT - Bidder acknowledges that the following addenda have been received and are included in the bid:

Addendum No.	Date Received	Addendum No.	Date Received	Addendum No.	Date Received	Addendum No.	Date Received
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

VARIANCES: If you take exception or have variances to any term, condition, specification, or requirement in this bid you must specify such variance in the space provided below or reference in the space provided below all variances contained on other pages within your bid. Additional pages may be attached if necessary. No variances will be deemed to be part of the bid submitted unless such is listed and contained in the space provided below. The City does not, by virtue of submitting a variance, necessarily accept any variances. If no statement is contained in the below space, it is hereby implied that your response is in full compliance with this competitive solicitation. If you do not have variances, simply mark N/A. If submitting your response electronically through BIDS SYNC you must also click the "Take Exception" button.

The below signatory affirms that he has or will obtain all required permits and licenses from the appropriate agencies, and that his firm is authorized to do business in the State of Florida. The below signatory agrees to furnish all labor, tools, material, equipment and supplies, and to sustain all the expense incurred in doing the work set forth in strict accordance with the bid plans and contract documents at the unit prices indicated if awarded a contract. The below signatory has not divulged to, discussed, or compared this bid with other bidders, and has not colluded with any other bidder or parties to this bid whatsoever. Furthermore, the undersigned guarantees the truth and accuracy of all statements and answers contained in this bid. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a bid, that in no event shall the City's liability for bidder's direct, indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of Five Hundred Dollars (\$500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City protest ordinance contained in this competitive solicitation.

Submitted by:

Name (printed)

Date:

Signature

Date:

Question and Answers for Bid #12277-693 - Fort Lauderdale Executive Airport Taxiway Foxtrot Relocation (P12243)

Overall Bid Questions

Question 1

What is the engineers estimate for this project? (Submitted: Apr 28, 2019 8:43:17 PM EDT)