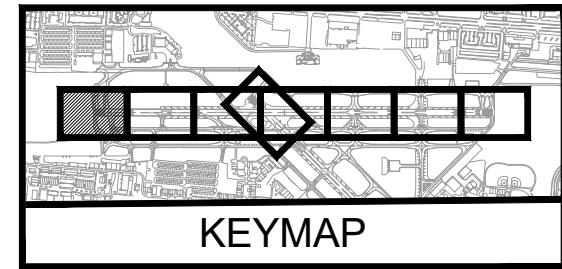
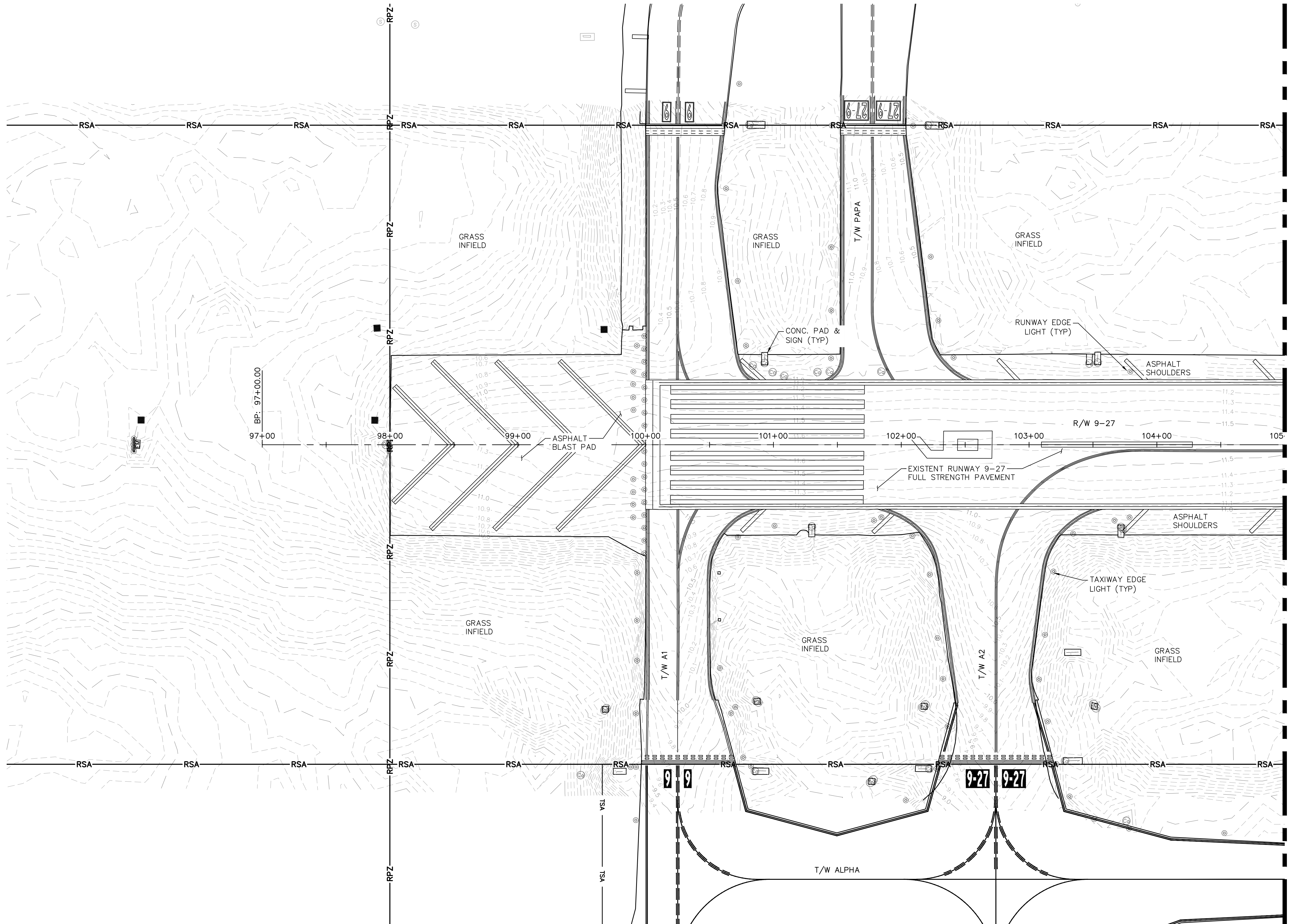


K:\FLTAVIATION\044693151_FXE_RW_9-27_REHAB\CADD\PLANSHEETS\12764--MULTI--EXST.DWG



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- PAVEMENT CORES PROVIDED IN GEOTECHNICAL REPORT PREPARED BY TSFGEO DATED 5/13/2024.

LEGEND (SYMBOL)

- EXISTING CONTOUR
- AIRPORT SIGN ON CONCRETE PAD
- VAULT
- CATCH BASIN
- TAXIWAY AND RUNWAY LIGHTS
- CANISTER
- ELECTRIC METER
- SPOT ELEVATION

LEGEND (LINE TYPE)

- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE



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BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
EXISTING CONDITIONS

SHEET NO.	OF
C201	110
TOTAL:	110
CAD FILE:	12764--MULTI--EXST
DRAWING FILE NO.	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE



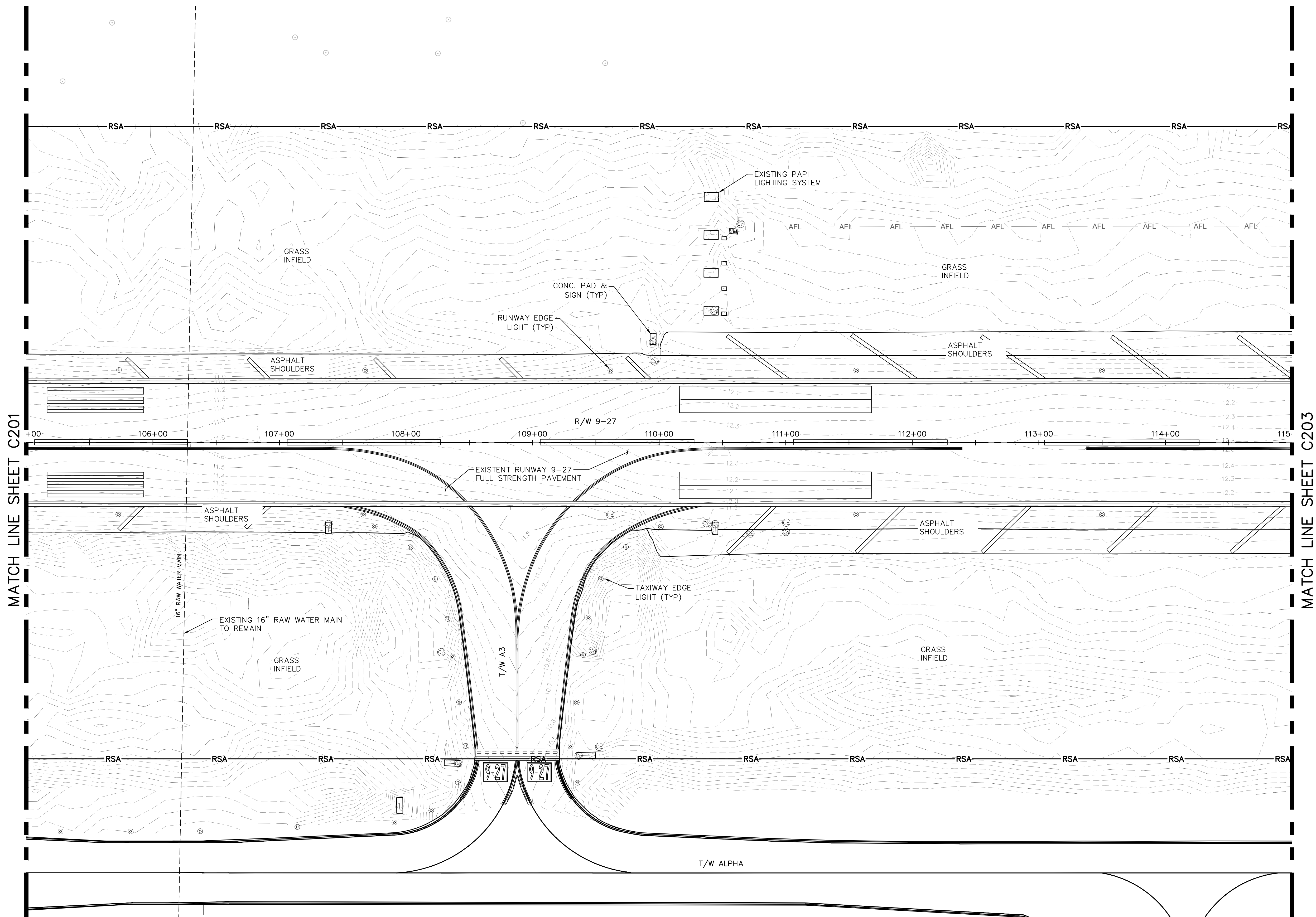
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY:	ALB	DATE:	06/07/2024
DESIGNED BY:	KAS	SCALE:	AS NOTED
CHECKED BY:	TFO		
FIELD BOOK:			

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

TEL: 561-840-0825
FAX:

K:\FTL\AVIATION\044693151\FXE RW 9-27 REHAB\CADD\PLANSHEETS\12764-MULTI-EXST.DWG



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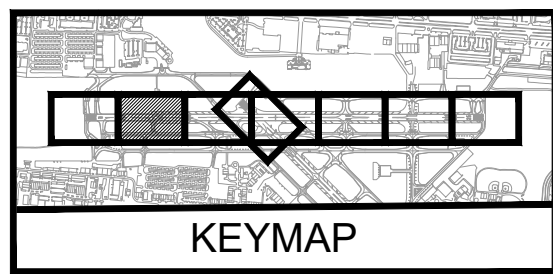
LEGEND (SYMBOL)

- EXISTING CONTOUR
- AIRPORT SIGN ON CONCRETE PAD
- VAULT
- CATCH BASIN
- TAXIWAY AND RUNWAY LIGHTS
- CANISTER
- ELECTRIC METER
- SPOT ELEVATION

LEGEND (LINE TYPE)

- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE

0 40' 80'



PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
EXISTING CONDITIONS

SHEET NO. OF
C202
TOTAL: 110
CAD FILE:
12764-MULTI-EXST
DRAWING FILE NO.

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

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

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

TEL: 561-840-0825
FAX:

NO.	DATE	BY	CHK'D	DESCRIPTION

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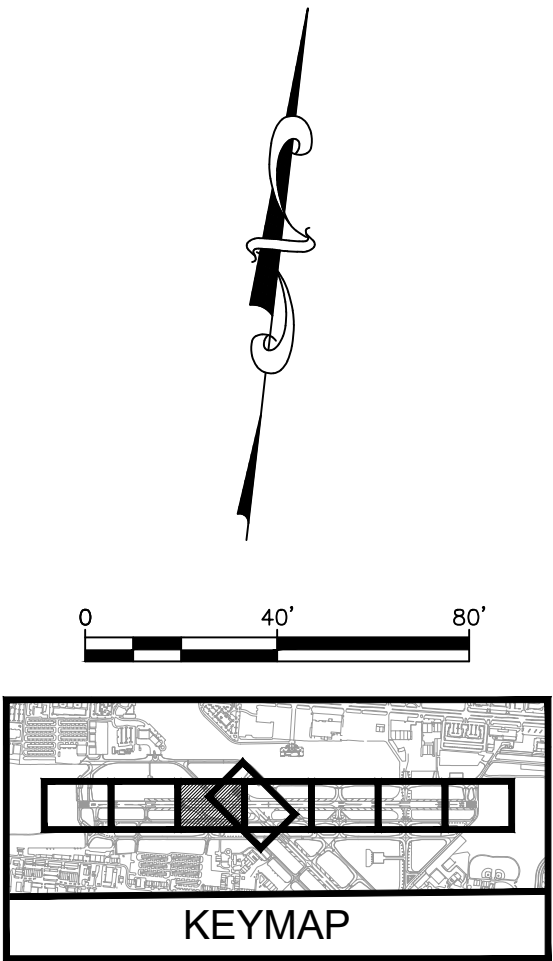
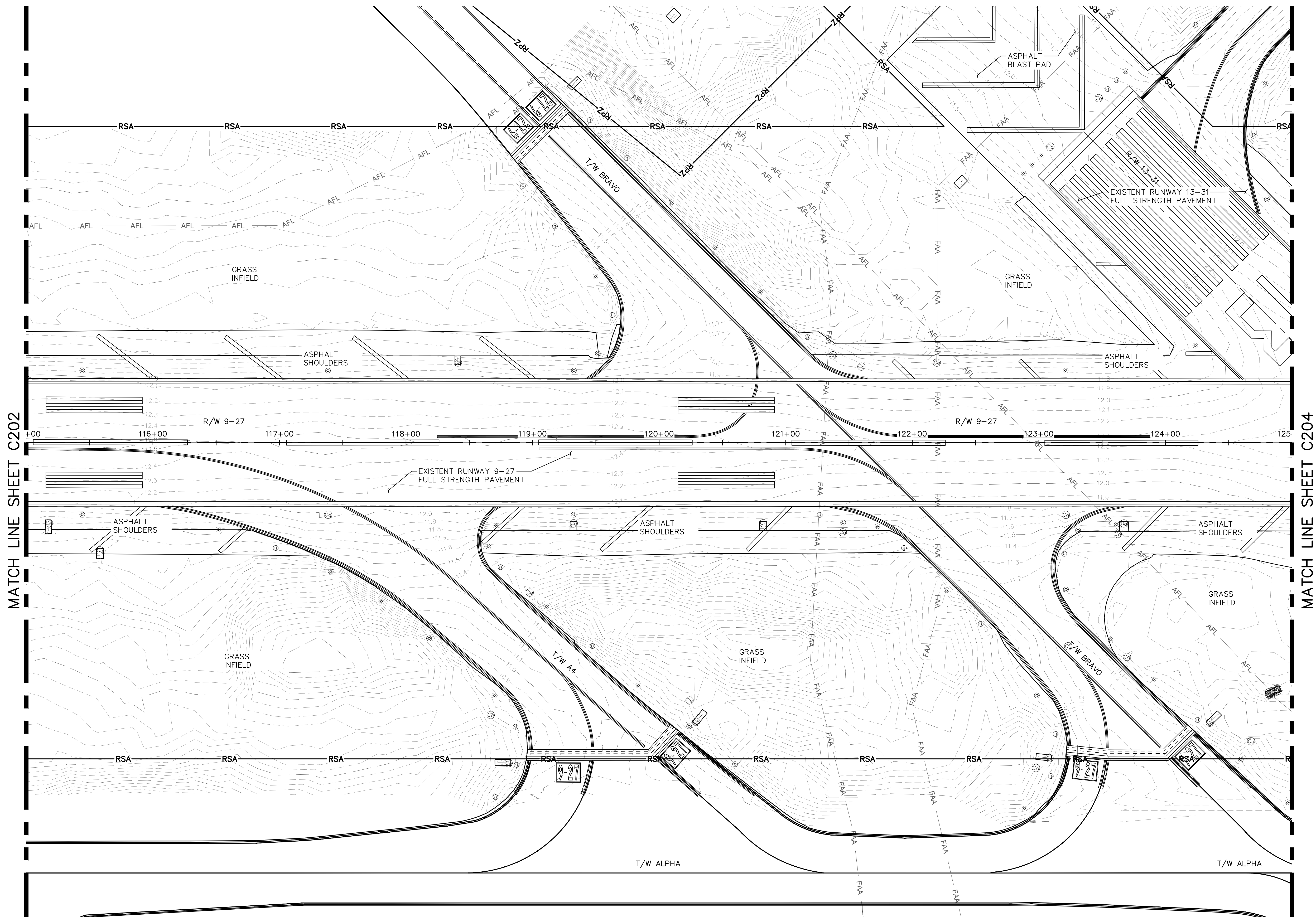
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WWW.KIMLEY-HORN.COM REGISTRY NO. 35056

QUANTUM
Electrical Engineering, Inc.
2761 VISTA PARKWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL: 561-852-1234
LICENSE NO. CA38855

BID SET

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LEGEND (SYMBOL)

- EXISTING CONTOUR
- AIRPORT SIGN ON CONCRETE PAD
- VAULT
- CATCH BASIN
- TAXIWAY AND RUNWAY LIGHTS
- CANISTER
- ELECTRIC METER
- SPOT ELEVATION

LEGEND (LINE TYPE)

- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE

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2751 VISTA PARKWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL 561-924-1234
LICENSE NO. CA38805

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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
EXISTING CONDITIONS

SHEET NO. OF
C203
TOTAL: 110
CAD FILE:
12764-MULTI-EXST
DRAWING FILE NO.

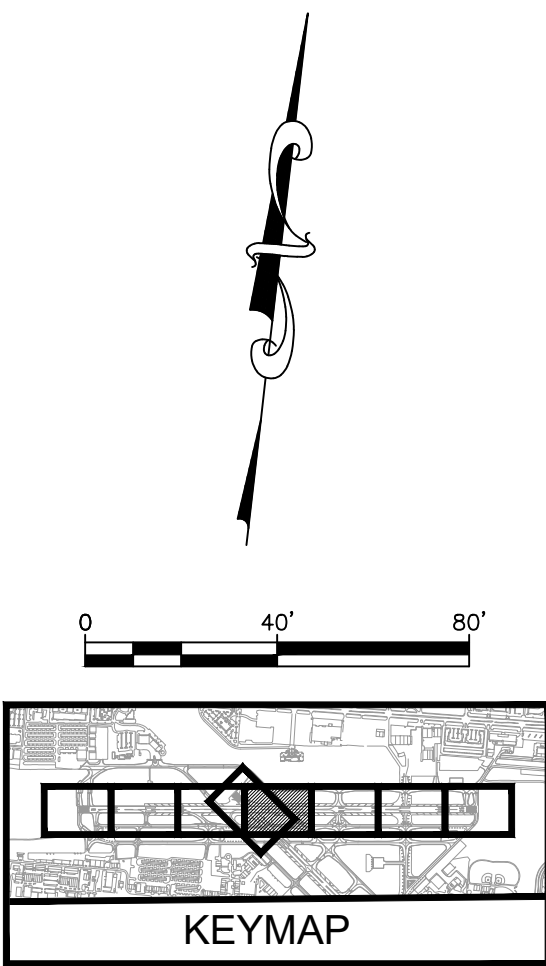
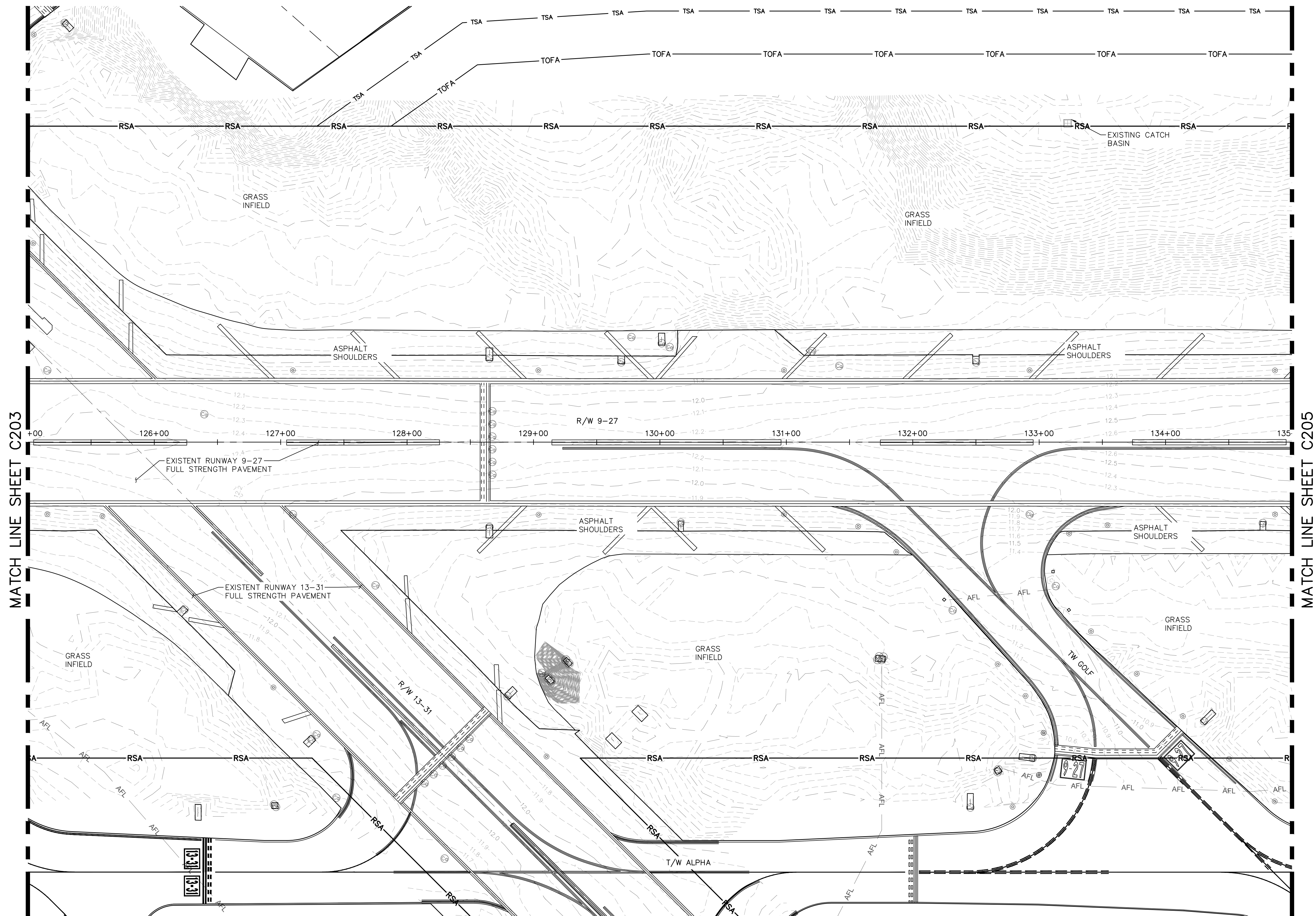
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

DRAWN BY: ALB	DATE: 06/07/2024	DESIGNED BY: KAS	SCALE: AS NOTED
FIELD BOOK:			

ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62476
DATE:
TEL 561-840-0825
FAX

K:\FLT\AVIATION\044693151\FXE RW 9-27 REHAB\CADD\PLANSHEETS\12764-MULTI-EXST.DWG



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- PAVEMENT CORES PROVIDED IN GEOTECHNICAL REPORT PREPARED BY TSFGEO DATED 5/13/2024.

LEGEND (SYMBOL)

- EXISTING CONTOUR
- AIRPORT SIGN ON CONCRETE PAD
- VAULT
- CATCH BASIN
- TAXIWAY AND RUNWAY LIGHTS
- CANISTER
- ELECTRIC METER
- SPOT ELEVATION

LEGEND (LINE TYPE)

- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE

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PHONE: 561-991-1100 FAX: 561-991-2201
WWW.KIMLEY-HORN.COM REGISTRY NO. 35056

QUANTUM
Electrical Engineering, Inc.
2761 VISTA PARKWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL: 561-991-9224
LICENSE NO. CA38805

BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
EXISTING CONDITIONS

SHEET NO. OF

C204

TOTAL: 110

CAD FILE:

12764-MULTI-EXST

DRAWING FILE NO.

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

DRAWN BY: ALB
DESIGNED BY: SCALE:
CHECKED BY: KAS
TFO

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

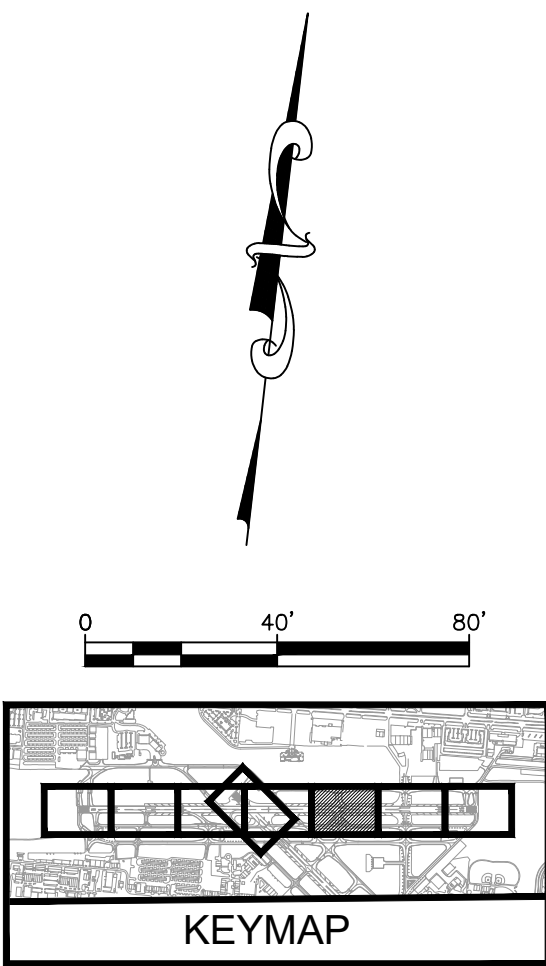
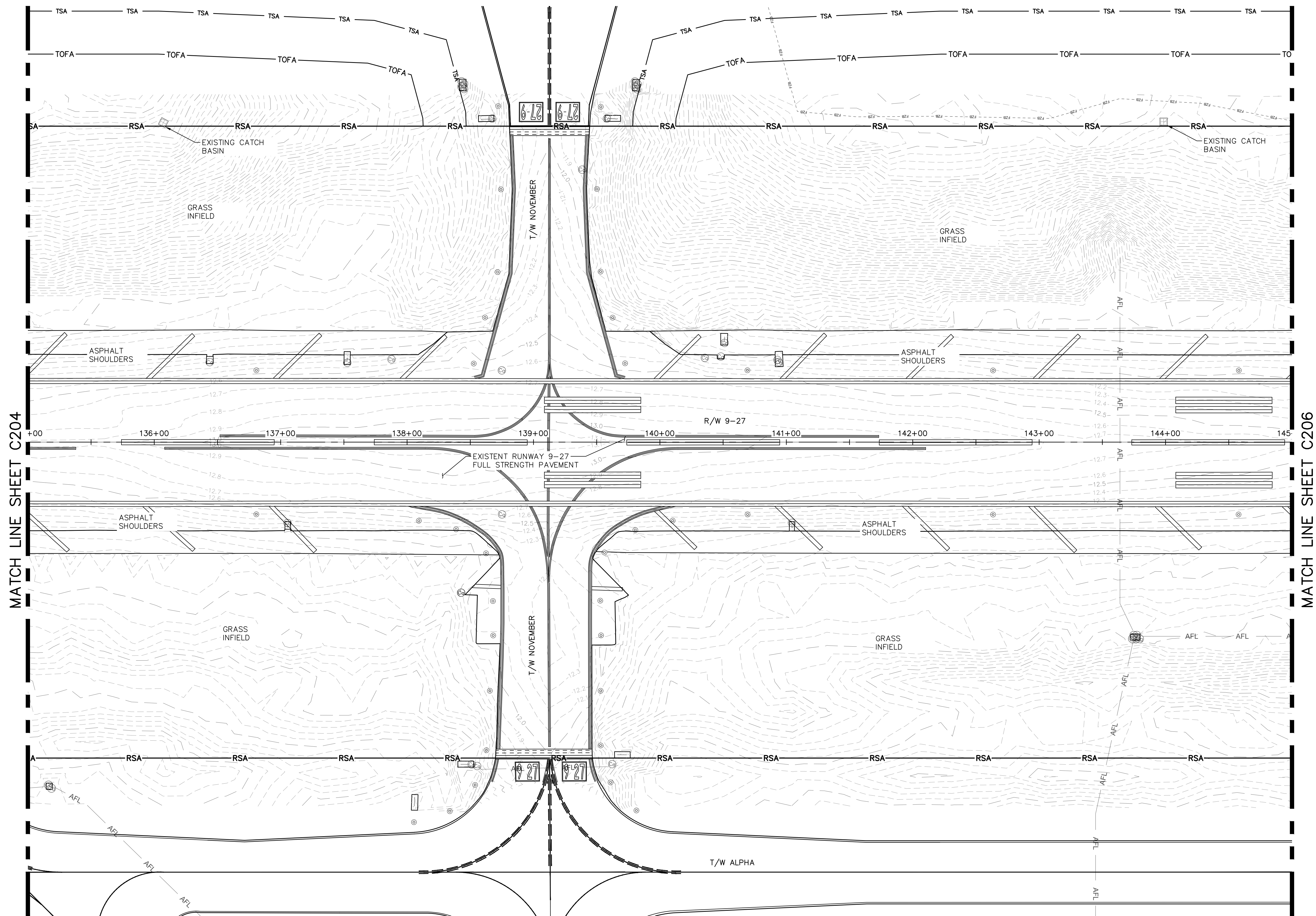
NO.	DATE	BY	CHK'D	DESCRIPTION

AS NOTED

FIELD BOOK:

TEL: 561-840-0825
FAX:

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LEGEND (SYMBOL)

- 11.00' — EXISTING CONTOUR
- AIRPORT SIGN ON CONCRETE PAD
- VAULT
- CATCH BASIN
- TAXIWAY AND RUNWAY LIGHTS
- CANISTER
- ELECTRIC METER
- SPOT ELEVATION

LEGEND (LINE TYPE)

- RSA — RUNWAY SAFETY AREA
- RPZ — RUNWAY PROTECTION ZONE

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TEL: 561-239-9224
WWW.KIMLEY-HORN.COM REGISTRY NO. 35056

QUANTUM

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2761 VISTA PARKWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL: 561-239-9224
WWW.QUANTUM-EE.COM REGISTRY NO. 35056

ENGINEER: THOMAS F. O'DONNELL
PROJ. NO.: 12764
DATE: 06/07/2024

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

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

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
EXISTING CONDITIONS

SHEET NO. C205 OF 110

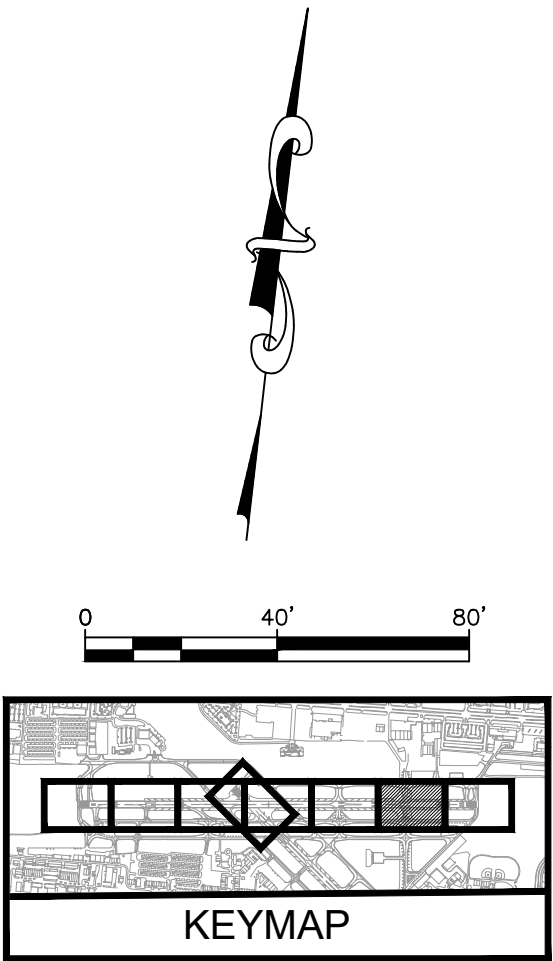
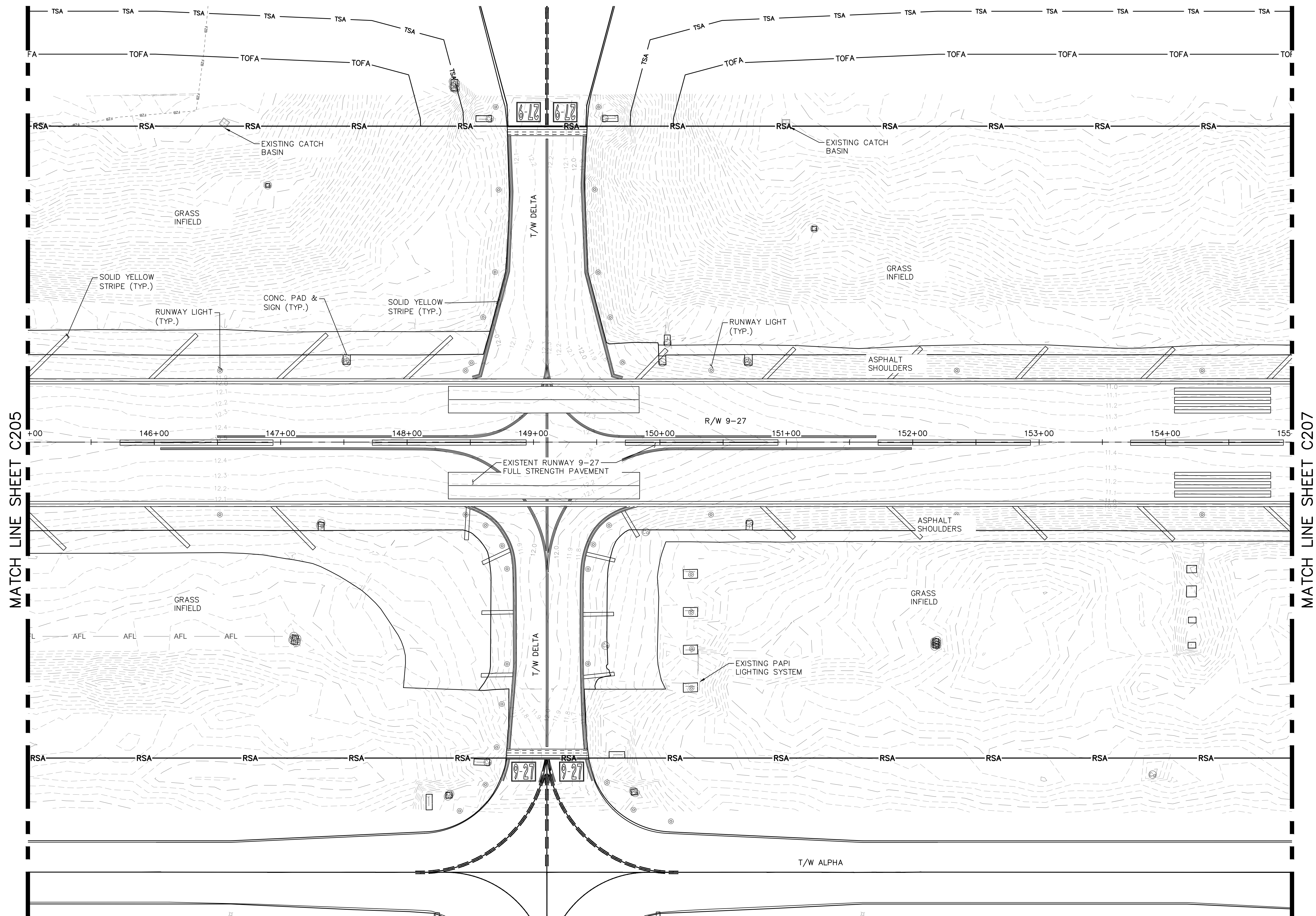
TOTAL: 110

CAD FILE: 12764-MULTI-EXST

DRAWING FILE NO.

BID SET

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LEGEND (SYMBOL)

- EXISTING CONTOUR
- AIRPORT SIGN ON CONCRETE PAD
- VAULT
- CATCH BASIN
- TAXIWAY AND RUNWAY LIGHTS
- CANISTER
- ELECTRIC METER
- SPOT ELEVATION

LEGEND (LINE TYPE)

- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE

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WEST PALM BEACH, FL 33411
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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
EXISTING CONDITIONS

SHEET NO. OF
C206
TOTAL: 110
CAD FILE:
12764-MULTI-EXST
DRAWING FILE NO.

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

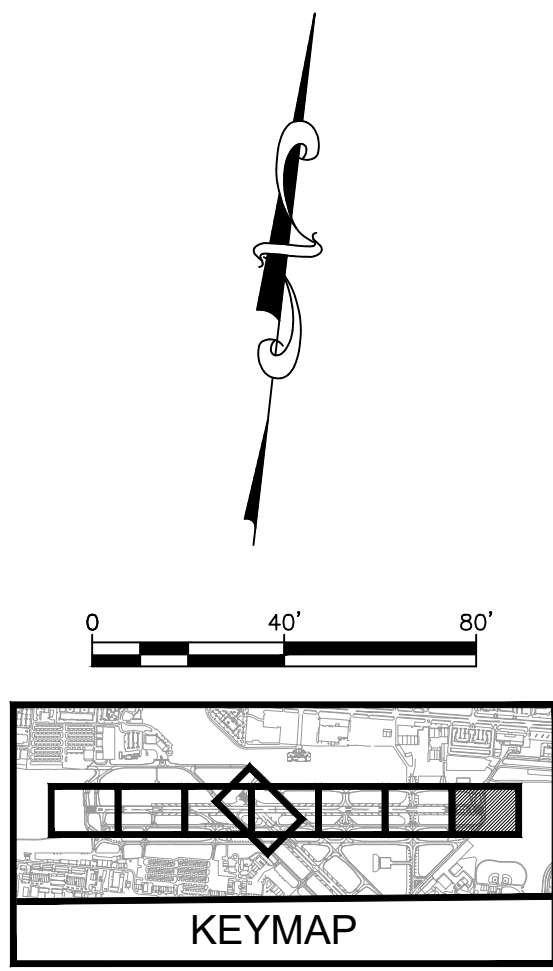
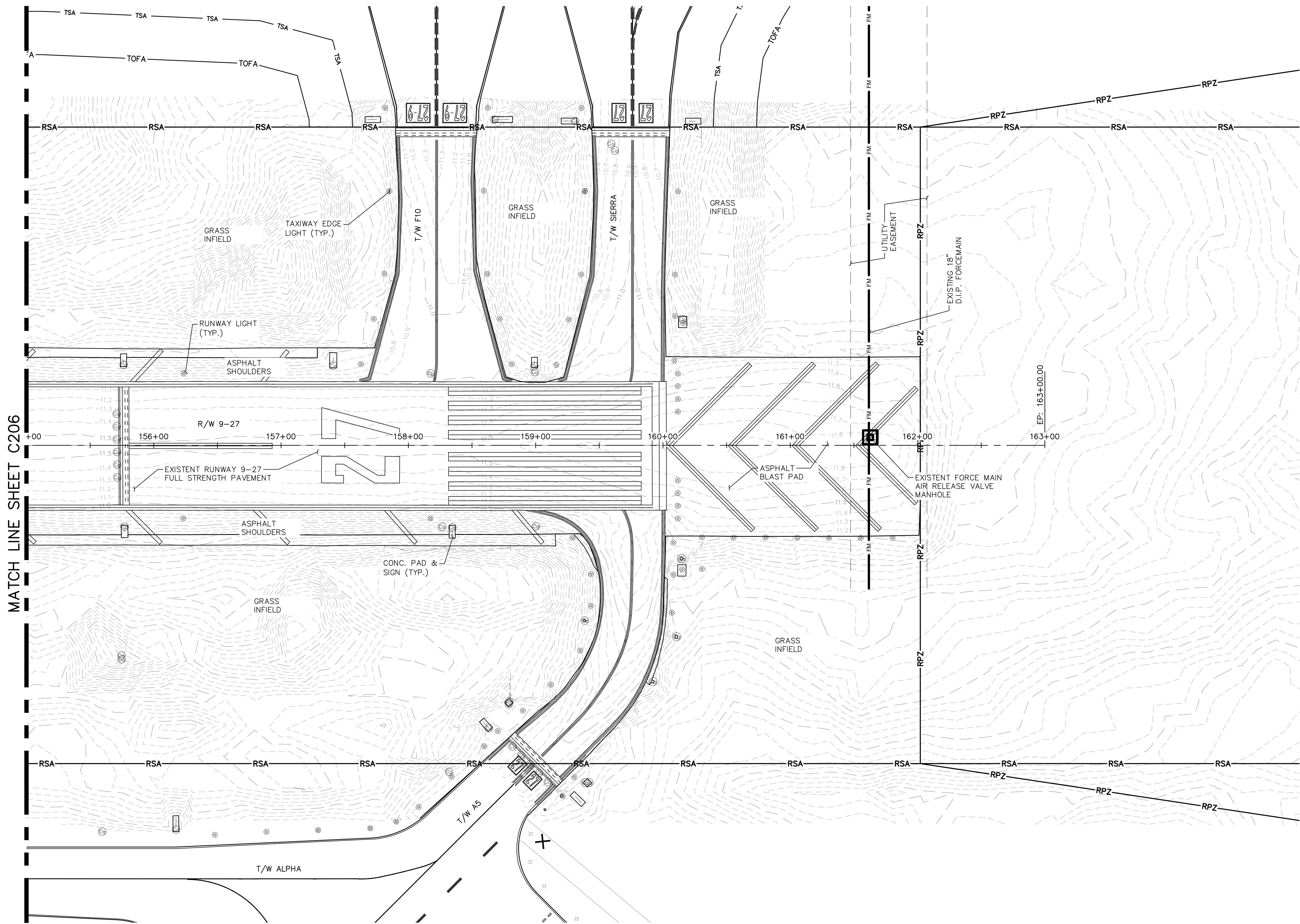
DRAWN BY: ALB
DESIGNED BY: KAS
CHECKED BY: TFO
DATE: 06/07/2024
SCALE: AS NOTED
FIELD BOOK:

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

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHK'D

BID SET

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LEGEND (SYMBOL)

- EXISTING CONTOUR
- AIRPORT SIGN ON CONCRETE PAD
- VAULT
- CATCH BASIN
- TAXIWAY AND RUNWAY LIGHTS
- CANISTER
- ELECTRIC METER
- SPOT ELEVATION

LEGEND (LINE TYPE)

- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE

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TEL: 561-239-9224
WWW.QUANTUM-EE.COM REGISTRY NO. 30506

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
EXISTING CONDITIONS

SHEET NO. C207 OF 110
CAD FILE: 12764-MULTI-EXST
DRAWING FILE NO.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

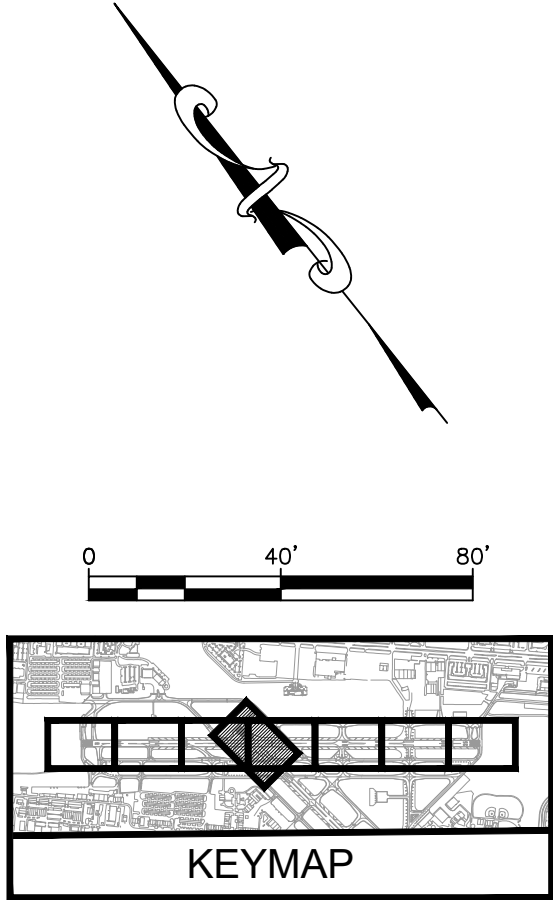
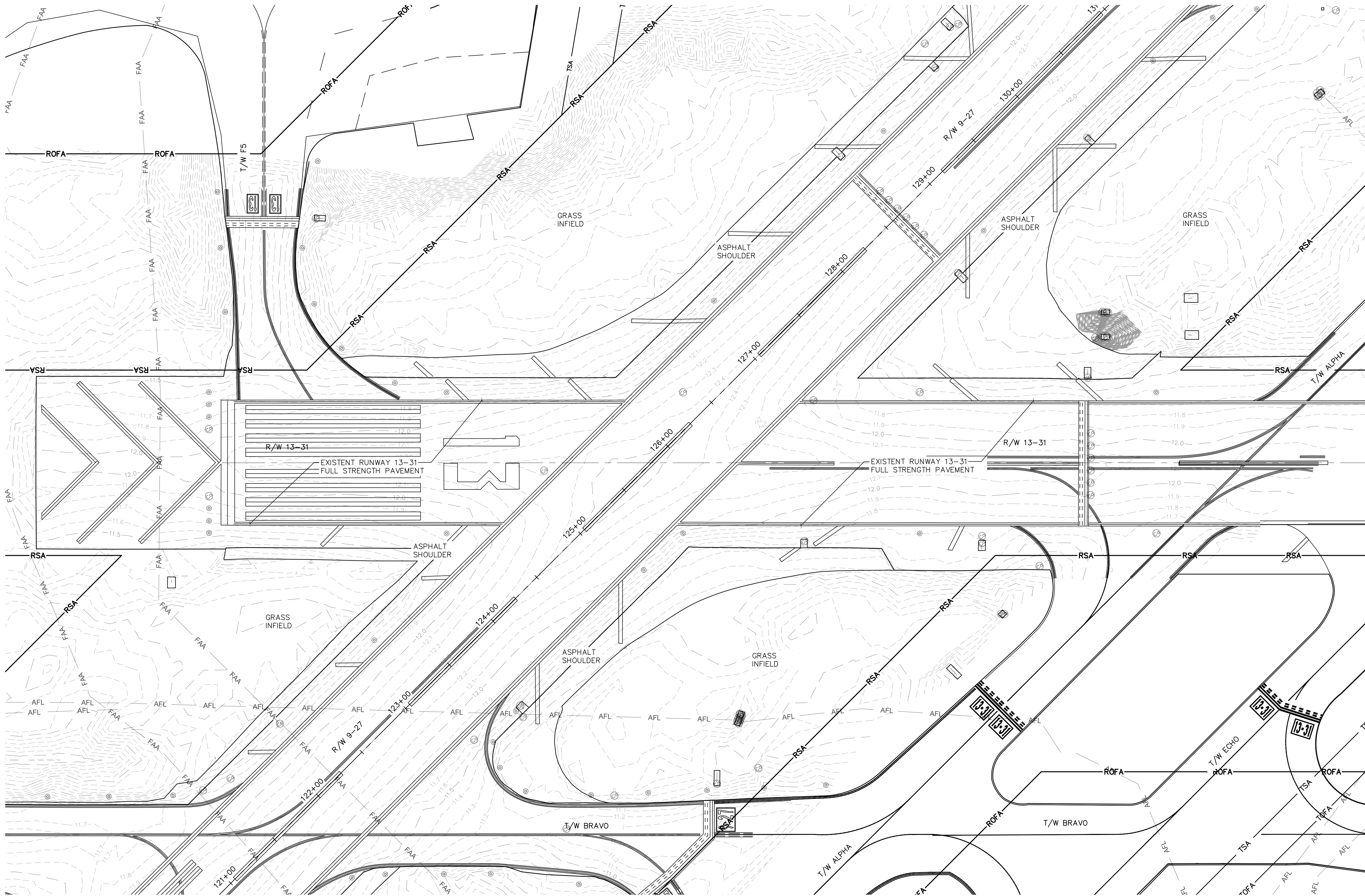


100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY: ALB
DESIGNED BY: KAS
CHECKED BY: TFO
DATE: 06/07/2024
SCALE: AS NOTED
FIELD BOOK:

ENGINEER: THOMAS F. O'DONNELL
Lic. No. 62476
DATE:
TEL: 561-840-0825
FAX:

K:\FLAVIATION\044693151_FYE_RW_9-27_REHAB\CADD\PLANSHEETS\12764-MULTI-EXST.DWG



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LEGEND (SYMBOL)

- EXISTING CONTOUR
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- VAULT
- CATCH BASIN
- TAXIWAY AND RUNWAY LIGHTS
- CANISTER
- ELECTRIC METER
- SPOT ELEVATION

LEGEND (LINE TYPE)

- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE

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WWW.KIMLEY-HORN.COM REGISTRY NO. 35056

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TEL: 561-924-1234 FAX: 561-924-1235
WWW.QUANTUM-EE.COM REGISTRY NO. 35056

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
EXISTING CONDITIONS

SHEET NO. OF
C208
TOTAL: 110
CAD FILE: 12764-MULTI-EXST
DRAWING FILE NO.

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

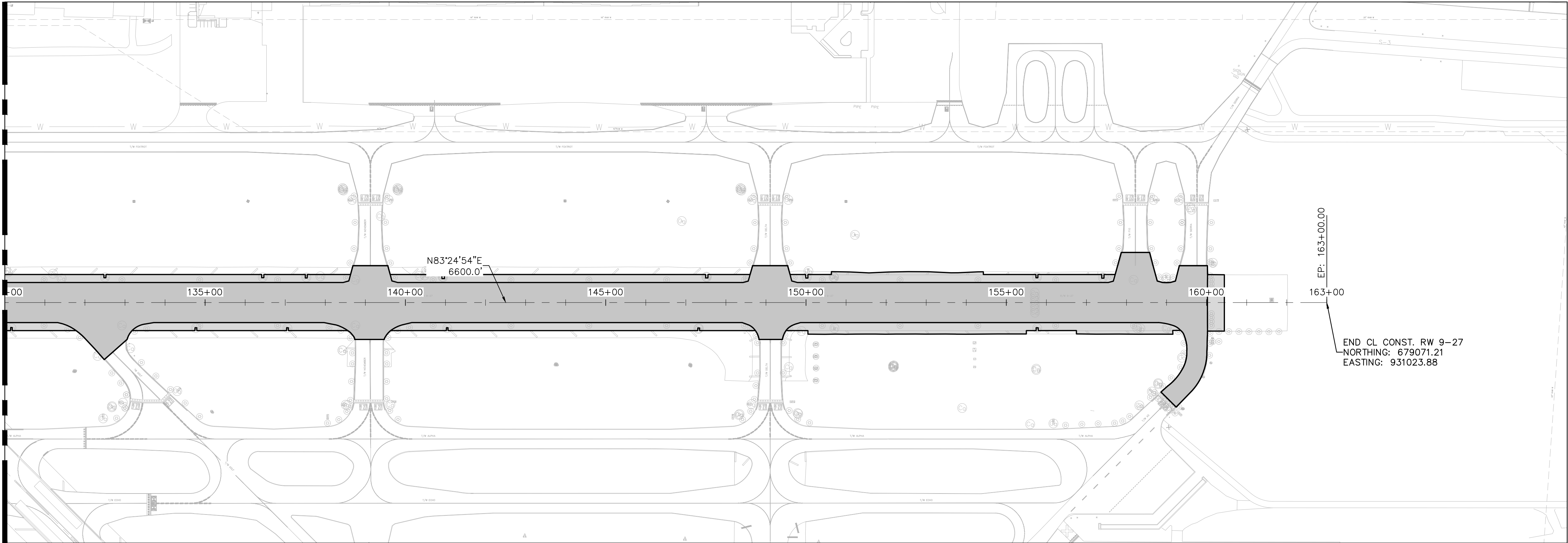
NO.	REVISONS		DESCRIPTION
	BY	CHK'D	

ENGINEER: THOMAS F. O'DONNELL Lic. No. 65476 DATE:	DRAWN BY: ALB DATE: 06/07/2024	DESIGNED BY: KAS SCALE: AS NOTED	CHECKED BY: TFO FIELD BOOK:
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TEL: 561-840-0825
FAX:

K:\FTL\AVIATION\044693151_FXE_RW_9-27_REHAB\CADD\PLANSHEETS\12764-C301-LOUT.DWG

MATCH LINE THIS SHEET



LEGEND

Runway 9-27 Pavement Rehabilitation

NOTES:

1. DRAWING BASED ON SURVEY PREPARED BY BROWN & PHILLIPS, INC, DATE: JUNE, 3RD, 2024.
2. THE HORIZONTAL CORRINATED SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLAN COORDINATE SYSTEM (EAST ZONE), NORTH AMERICAN DATUM 1983/1990 ADJUSTMENT (NAD 83/90).
3. THE ELEVATIONS SHOWN HEREON ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988 AND ARE REFERENCED TO FORT LAUDERDALE EXECUTIVE AIRPORT BENCHMARK "11127", ELEVATION = 11.65'.
4. PRIOR TO ANY WORK, THE CONTRACTOR WILL VERIFY THE ACCURACY OF ALL CONTROL POINTS AND EXISTING CONDITIONS. ANY DISCREPANCIES WILL BE IMMEDIATELY REPORTED TO THE ENGINEER.

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FAA FACILITIES 954-356-7212

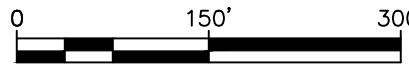
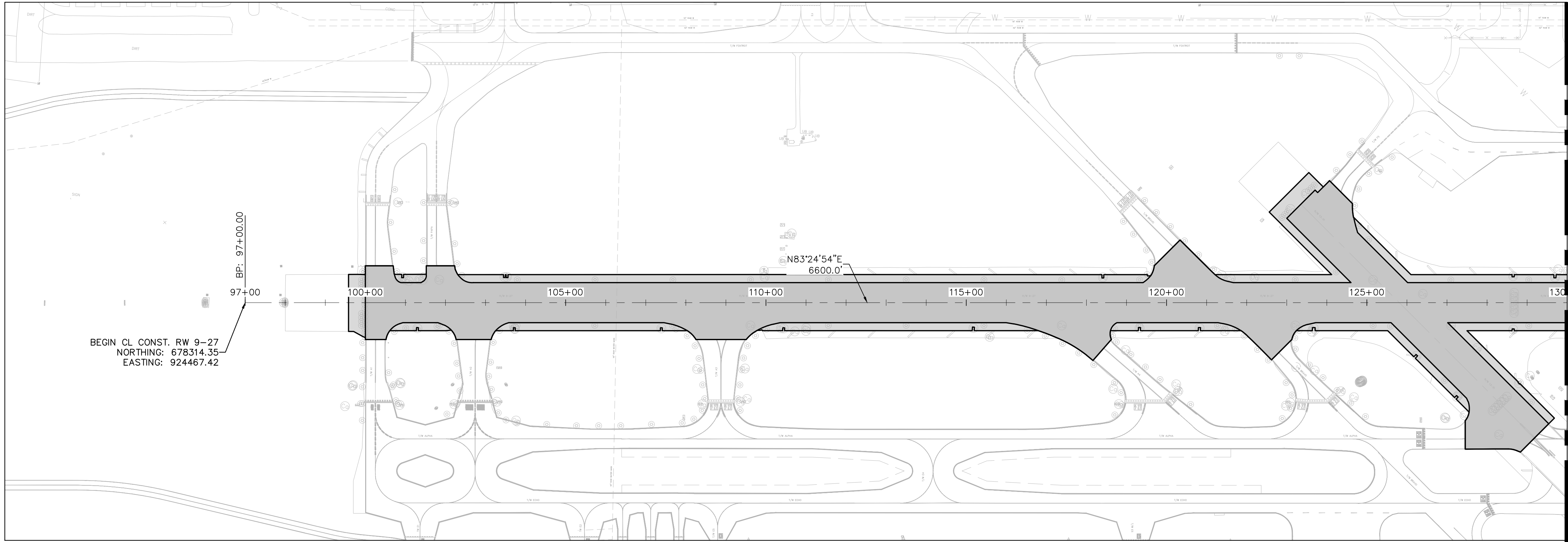
Kimley-Horn

QUANTUM

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4001 PINEHURST BLVD., SUITE 200, WEST PALM BEACH, FL 33411
WWW.KIMLEY-HORN.COM REGISTRY NO. 30506

2761 VISTA PARKWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL: 561-924-1234
LICENSE NO. CA38805

MATCH LINE THIS SHEET



BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PROJECT LAYOUT - SURVEY CONTROL

SHEET NO. OF
C301
TOTAL: 110
CAD FILE:
12764-C301-LOUT
DRAWING FILE NO.

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



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

DATE: 06/07/2024

SCALE: AS NOTED

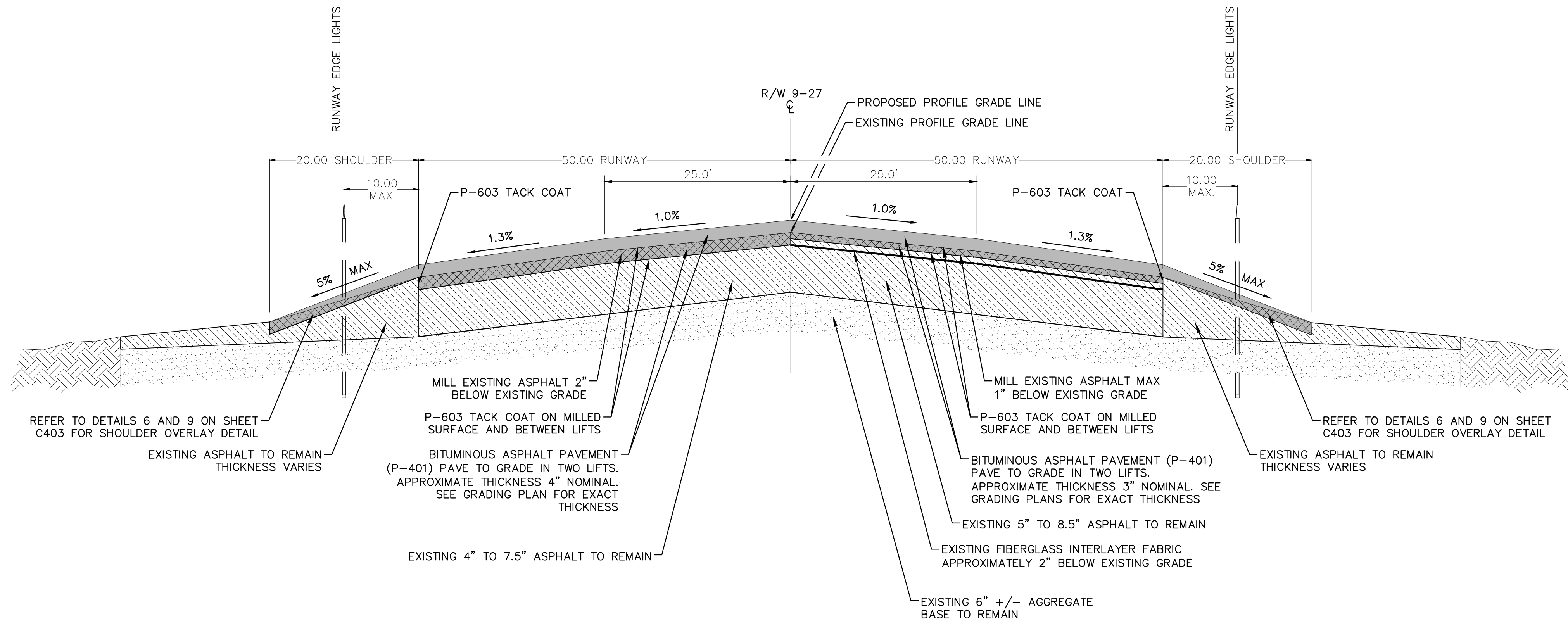
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DATE:

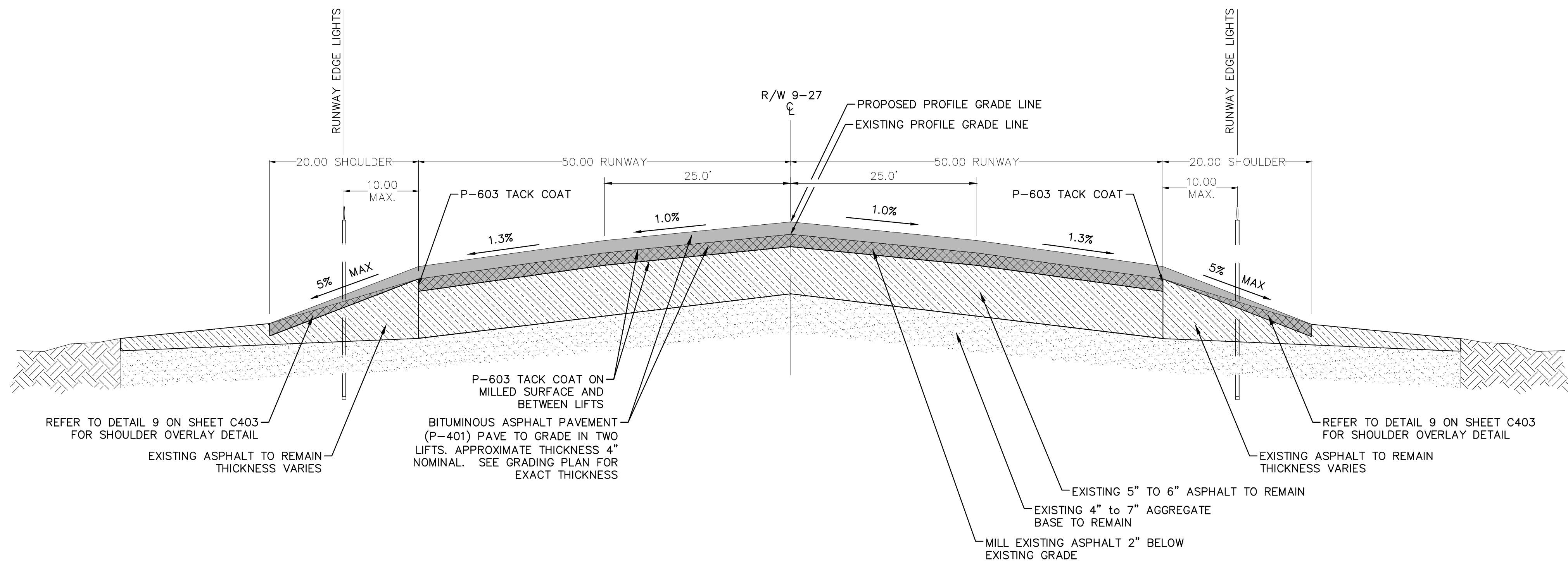
ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62476
DATE:

TEL: 561-840-0825
FAX:

K:\FTL\AVIATION\044693151_FYE_RW_9-27_REHAB\CADD\PLANSHEETS\12764-MULTI-TSEC.DWG



TYPICAL SECTION - RUNWAY 9-27 REHABILITATION - INTERLAYER SECTION
STA. 135+00.00 TO STA. 160+02.00
NOTE: THIS SECTION IS FACING EAST
N.T.S.



TYPICAL SECTION - RUNWAY 9-27 REHABILITATION
STA. 100+00.00 TO STA. 135+00.00
N.T.S.

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WEST PALM BEACH, FL 33411
TEL: 561-831-1100 FAX: 561-831-1101
WWW.KIMLEY-HORN.COM REGISTRY NO. 35056

QUANTUM
Electrical Engineering, Inc.
2751 VISTA PARKWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL: 561-831-1100 FAX: 561-831-1101
WWW.QUANTUM-EE.COM REGISTRY NO. CA38805

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

DESIGNED BY: SCALE: AS NOTED
CHECKED BY: TFO
FIELD BOOK:

TEL: 561-840-0825
FAX:

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

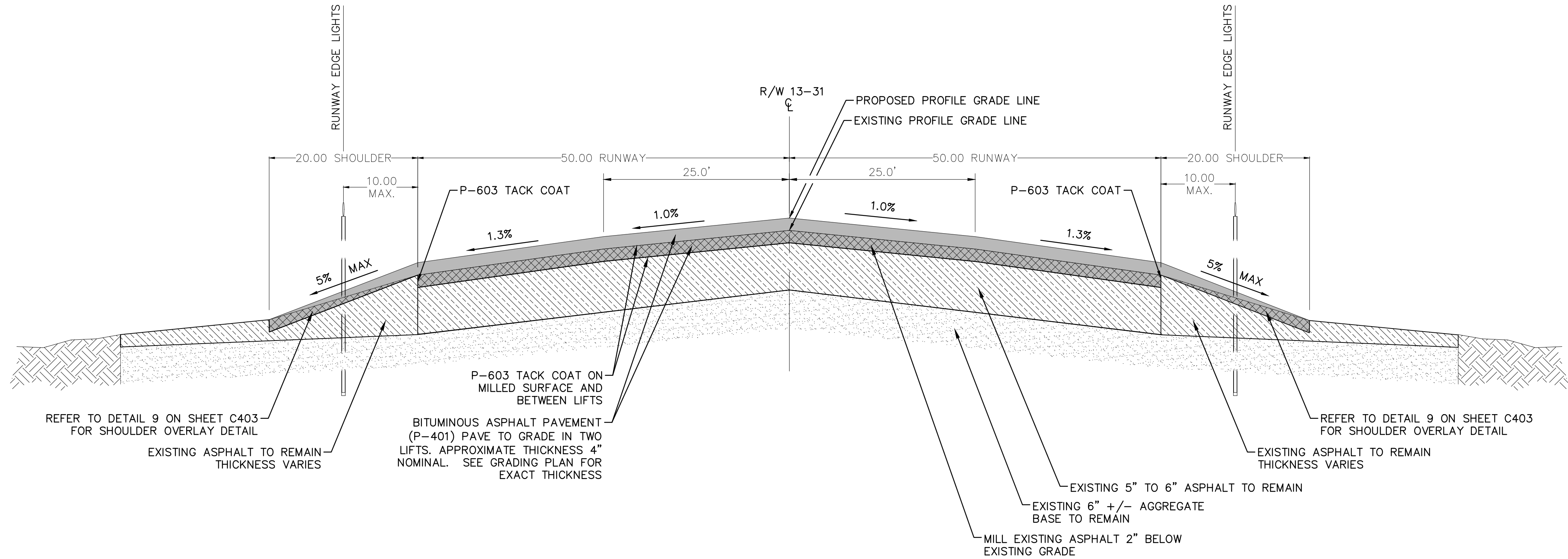
NO.	DATE	BY	CHK'D	REVISIONS	DESCRIPTION

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
TYPICAL SECTIONS

SHEET NO.	OF
C401	110
TOTAL:	110
CAD FILE:	12764-MULTI-TSEC
DRAWING FILE NO.	

BID SET

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TYPICAL SECTION - RUNWAY 13-31 REHABILITATION
N.T.S.

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FAA FACILITIES 954-356-7212



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PHONE: 561-926-1100 FAX: 561-739-2261
WWW.KIMLEY-HORN.COM REGISTRY NO. 35056

QUANTUM

Electrical Engineering, Inc.
2751 VISTA PALMWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL: 335-9524
LICENSE NO. CA38805

BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
TYPICAL SECTIONS

SHEET NO.	OF
C402	110
TOTAL:	110
CAD FILE:	12764--MULTI--TSEC
DRAWING FILE NO.	

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:	ALB	DESIGNED BY:	KAS	CHECKED BY:	TFO	FIELD BOOK:
DATE:	06/07/2024	SCALE:	AS NOTED			

ENGINEER:

THOMAS F. O'DONNELL

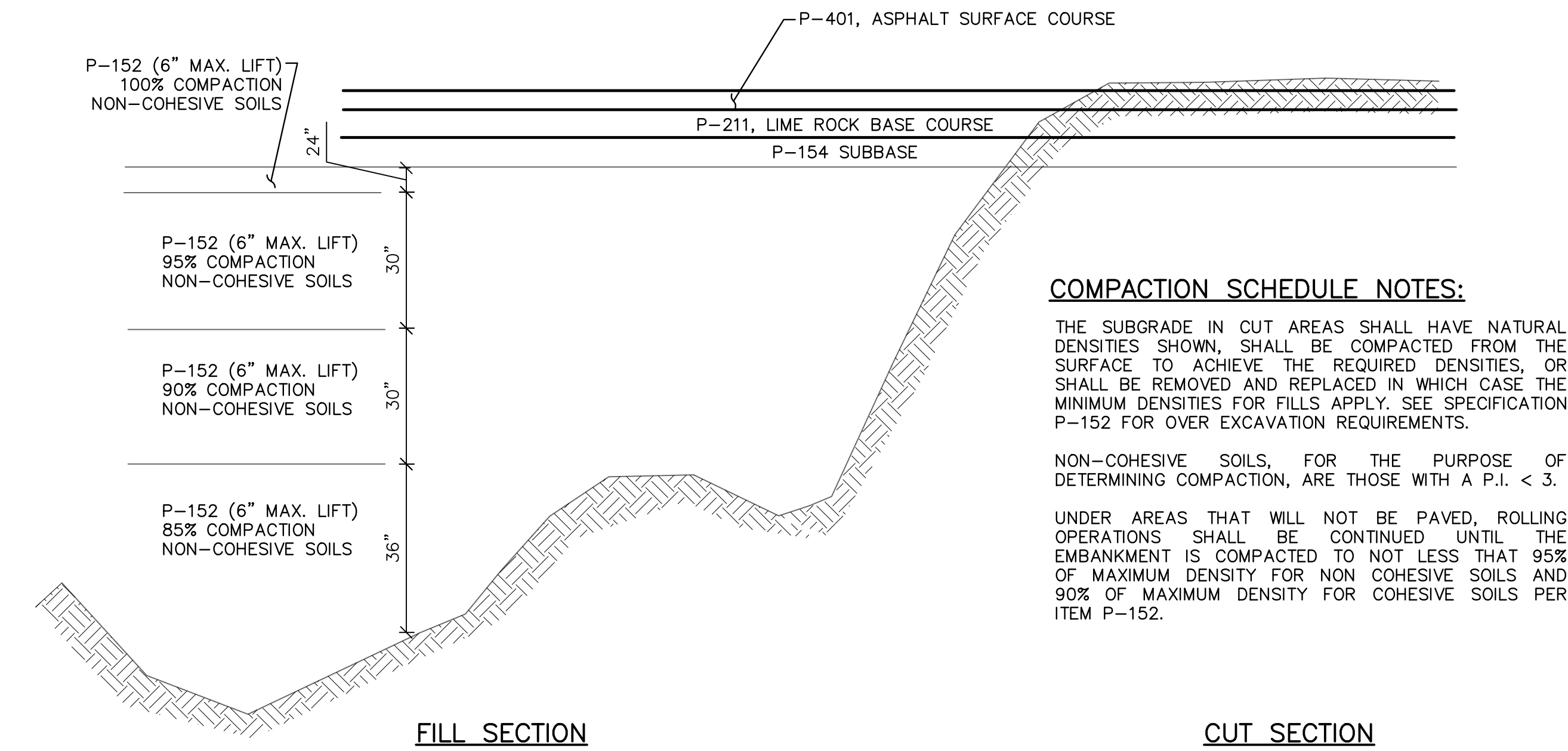
PROJ. NO: 62476

DATE:

TEL: 561-840-0825

FAX:

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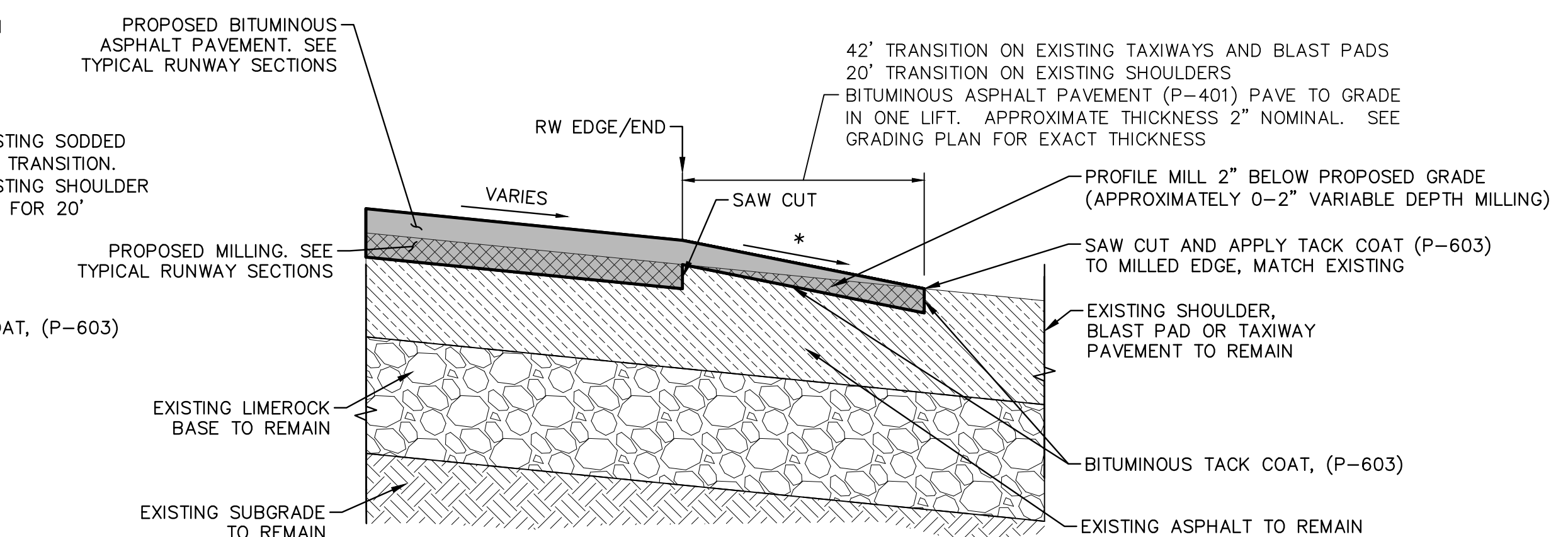
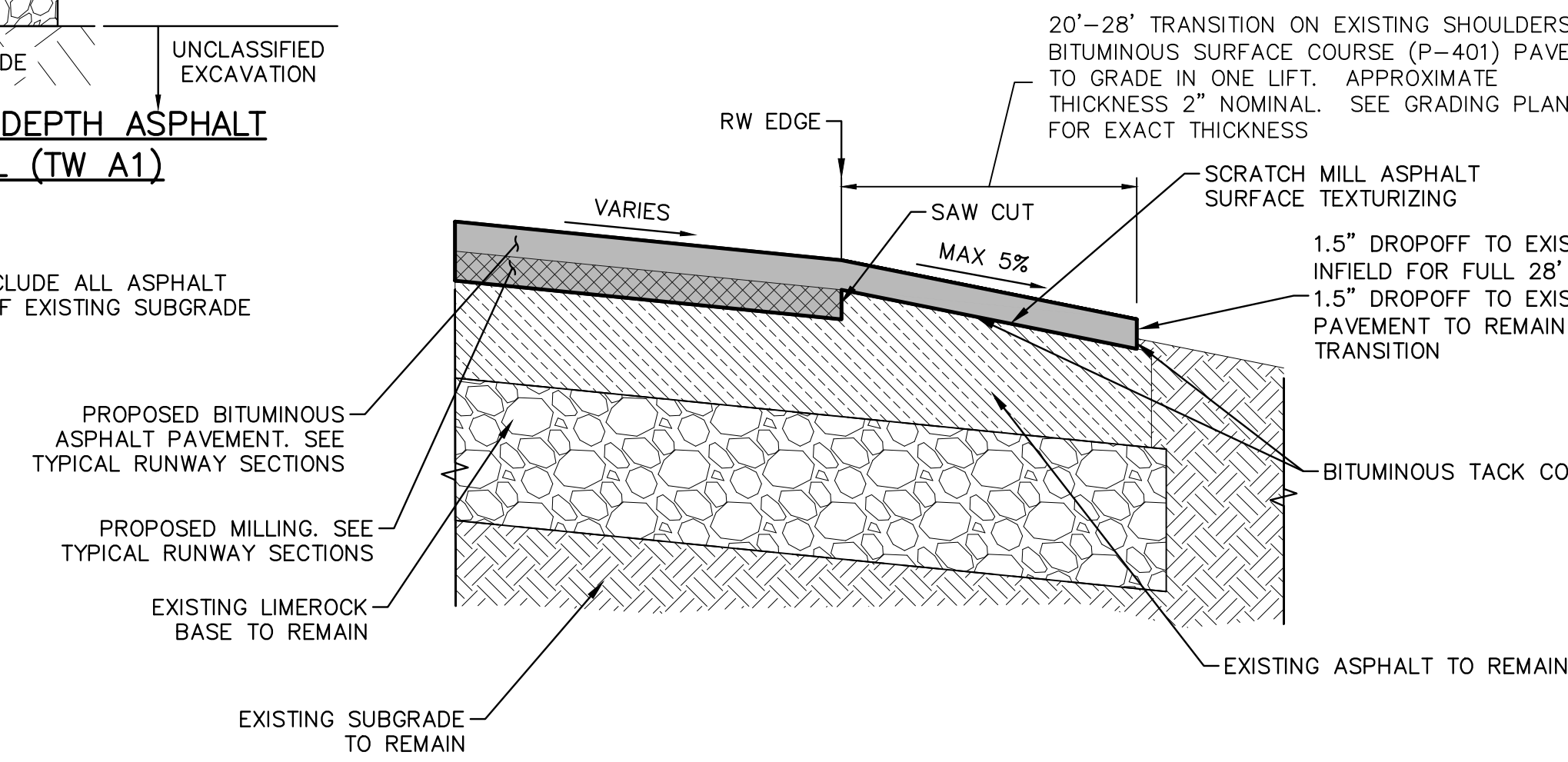


COMPACTION SCHEDULE
N.T.S.

DEMO DETAIL 1 - FULL DEPTH ASPHALT PAVEMENT REMOVAL (TW A1)
N.T.S.

NOTE:

FULL DEPTH REMOVAL TO INCLUDE ALL ASPHALT AND LIMEROCK UP TO TOP OF EXISTING SUBGRADE



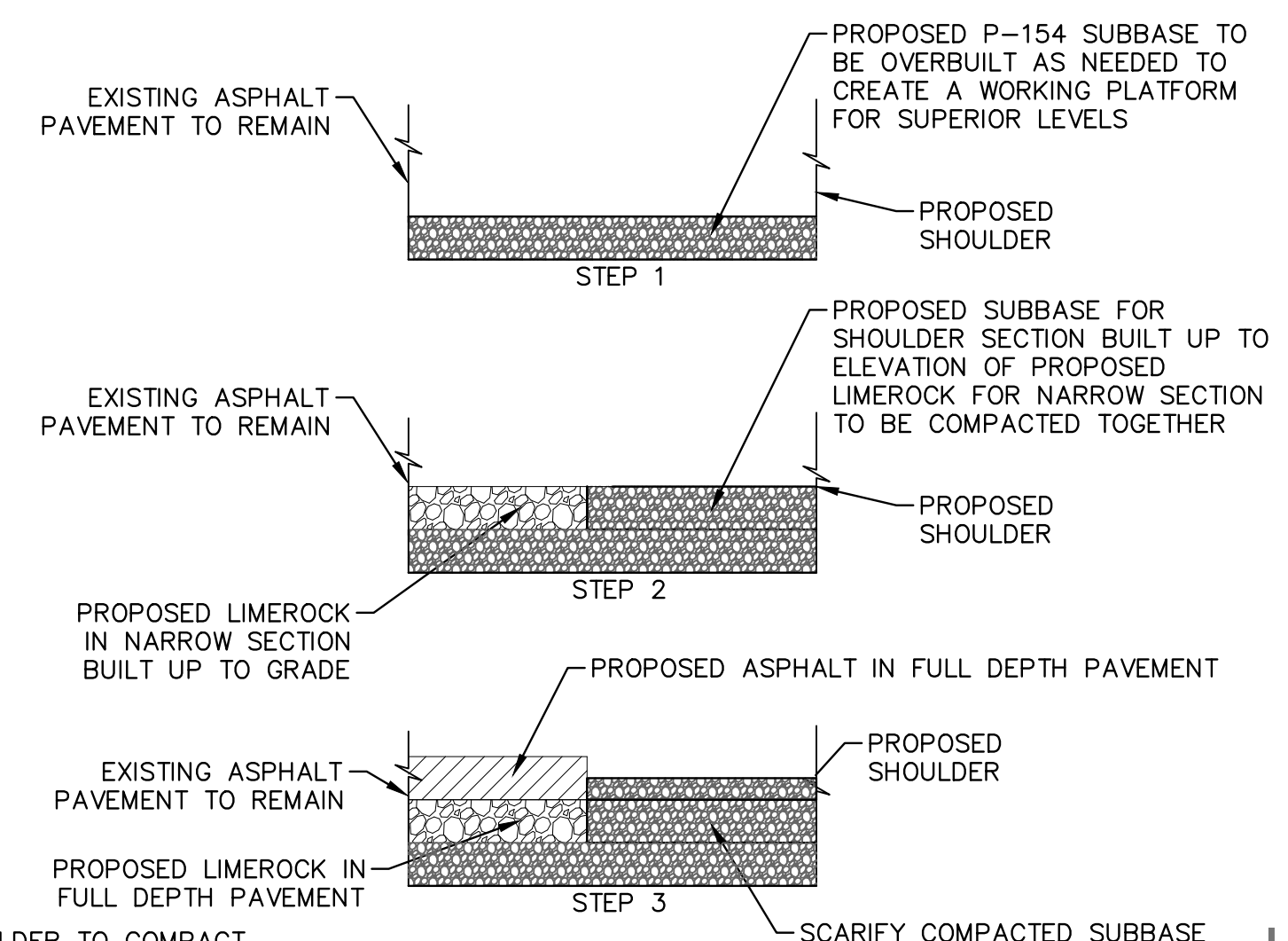
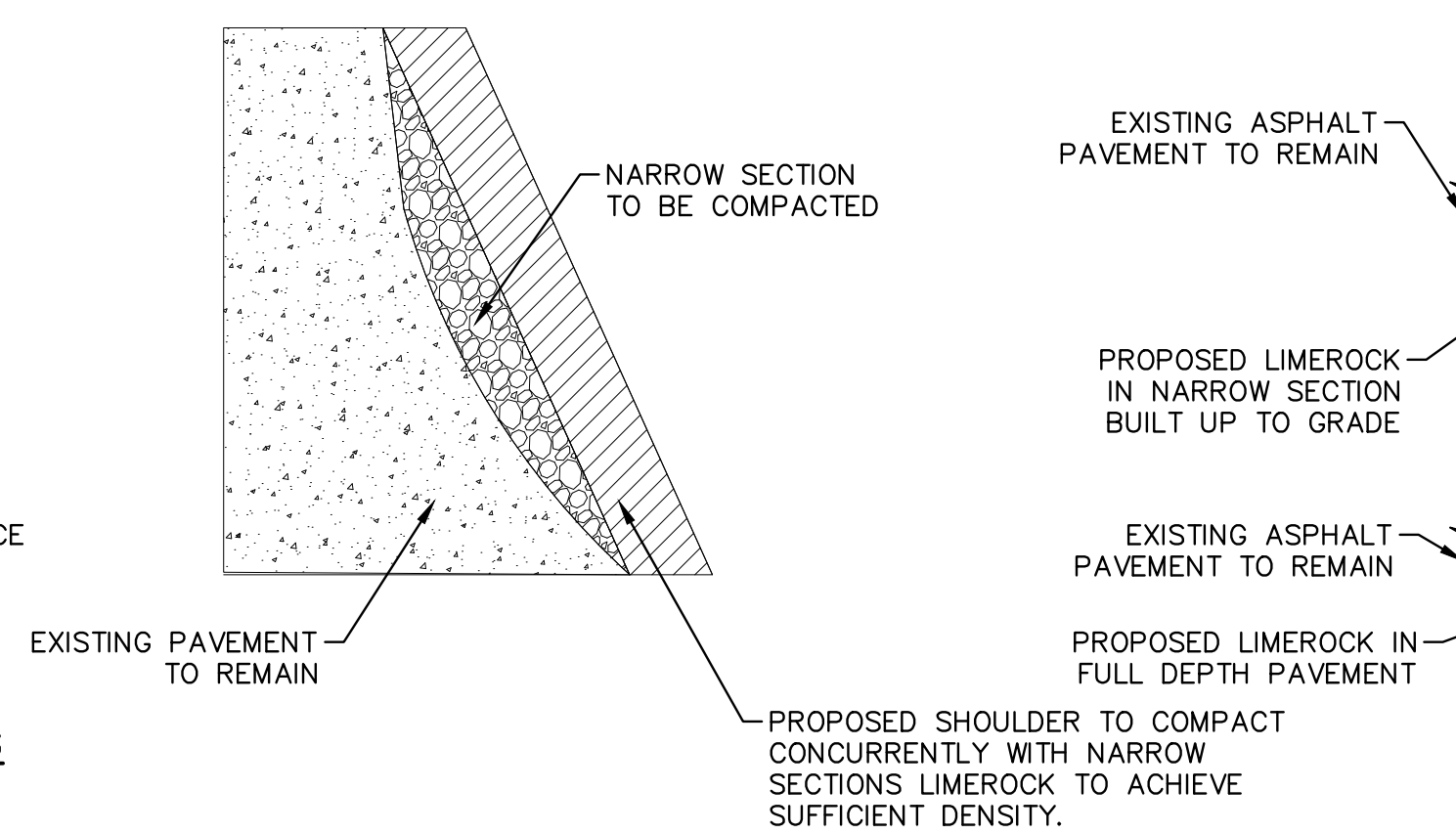
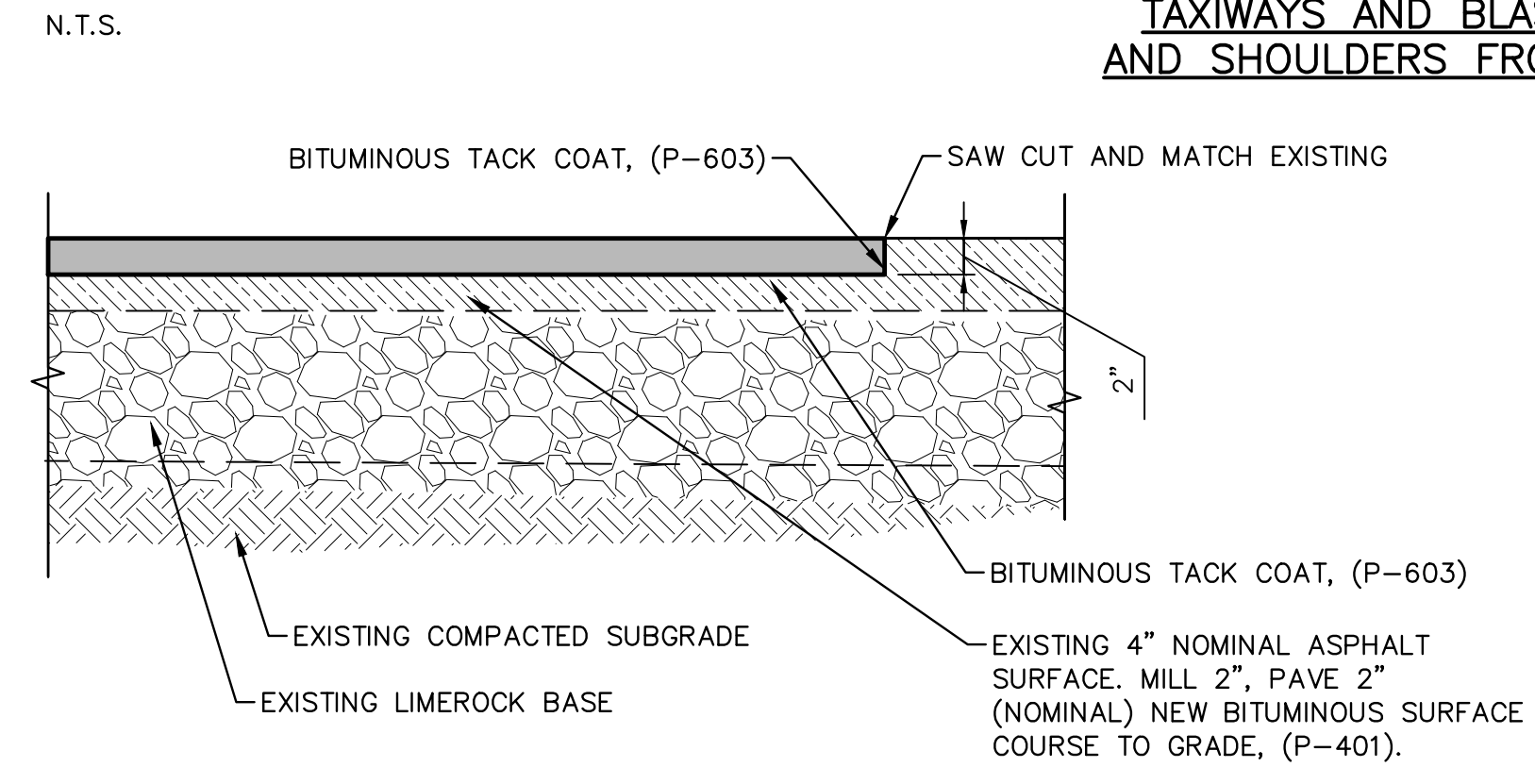
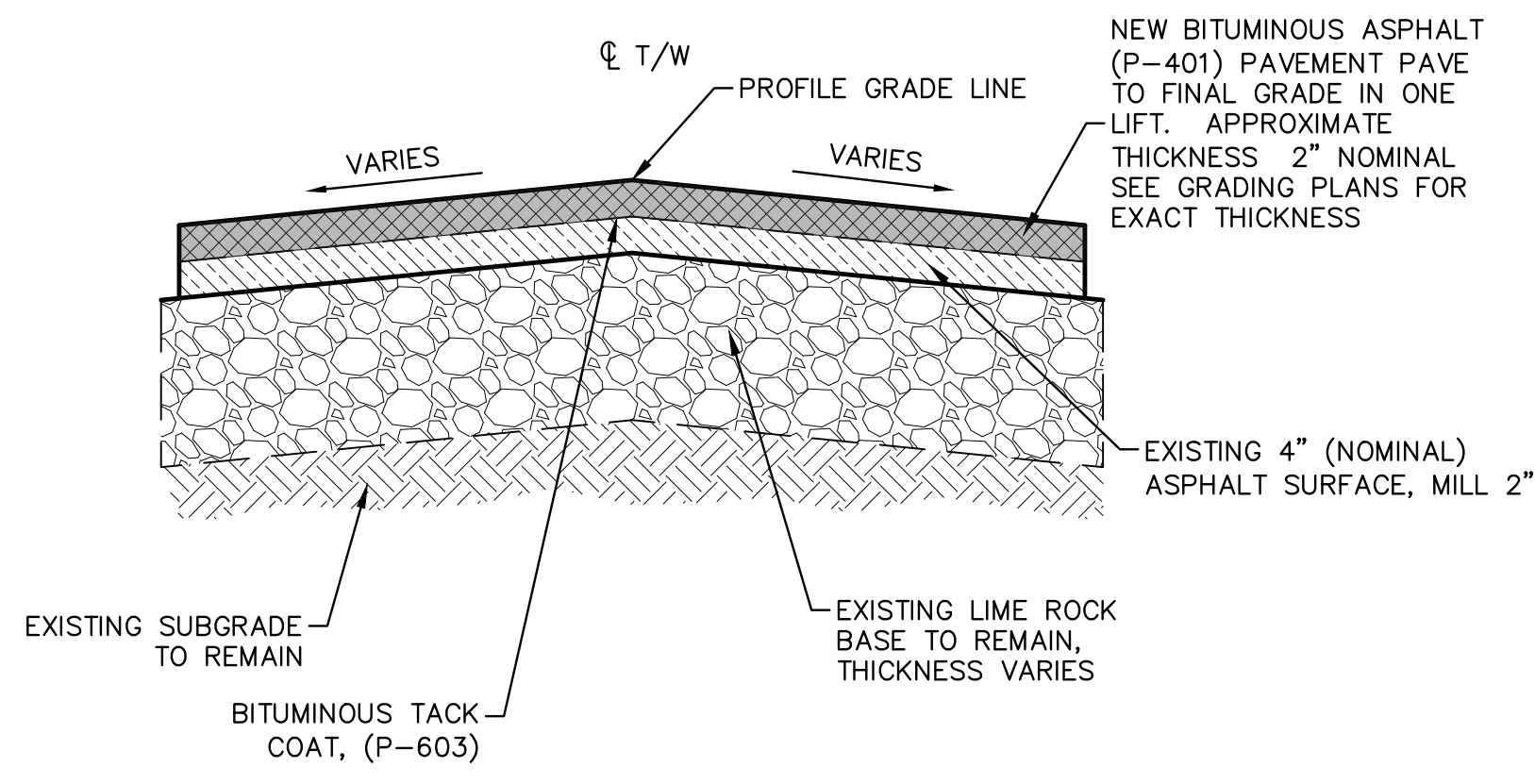
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Kimley-Horn

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WEST PALM BEACH, FL 33411
TEL: 561-923-9234
WWW.KIMLEY-HORN.COM REGISTRY NO. 35056

QUANTUM

Technical Engineering, Inc.
2765 VISTA PALMWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL: 561-923-9234
WWW.QUANTUM-ENGINEERING.COM REGISTRY NO. 35056

ENGINEER: THOMAS F. O'DONNELL
DATE: 06/07/2024
DESIGNED BY: SCALE: AS NOTED
CHECKED BY: TFO
FIELD BOOK: 33301

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISONS	DATE	BY	CHK'D	DESCRIPTION
NO.				

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
TYPICAL SECTIONS

SHEET NO. **C403** OF

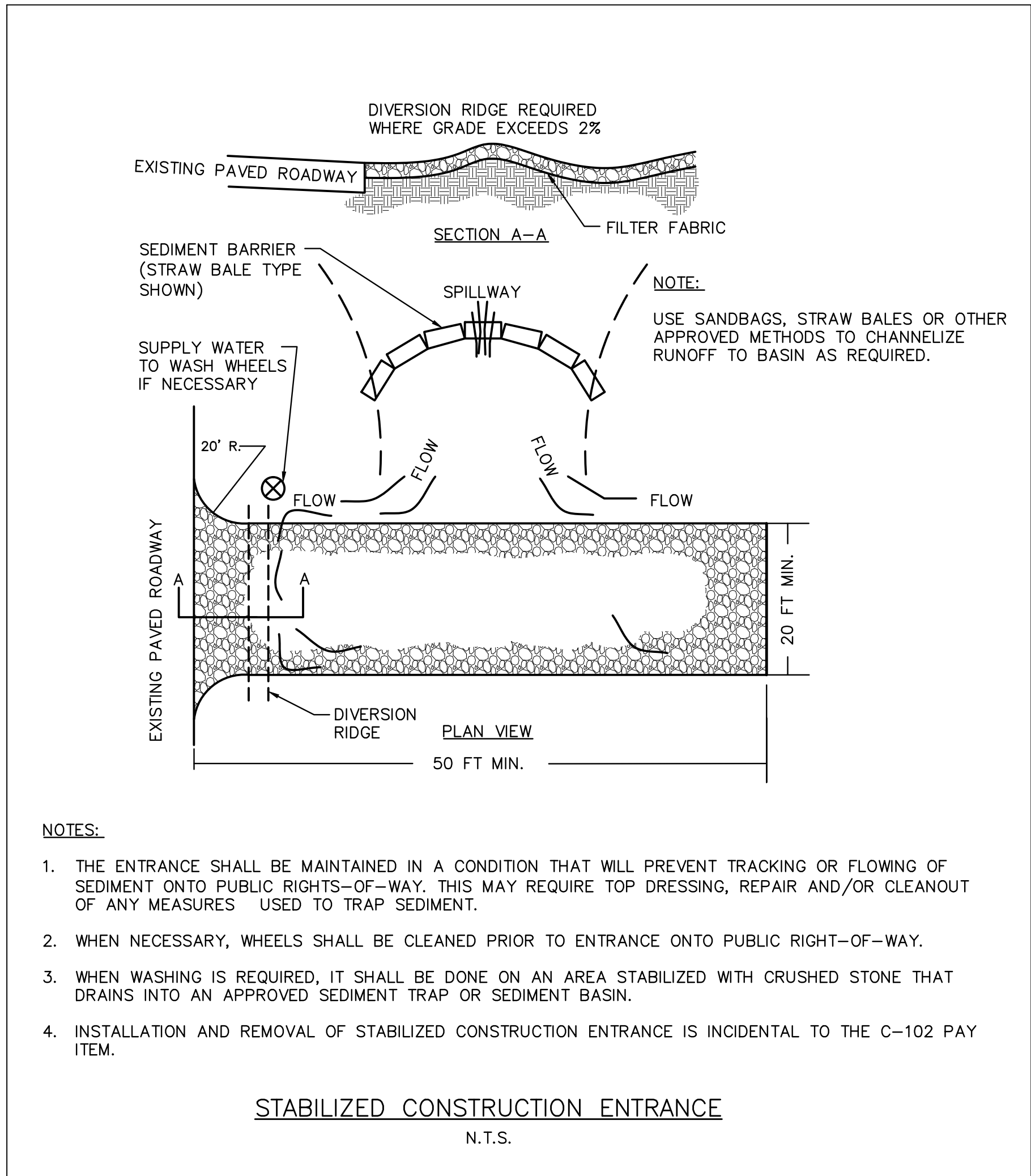
TOTAL: 110

CAD FILE: 12764-MULTI-TSEC

DRAWING FILE NO.

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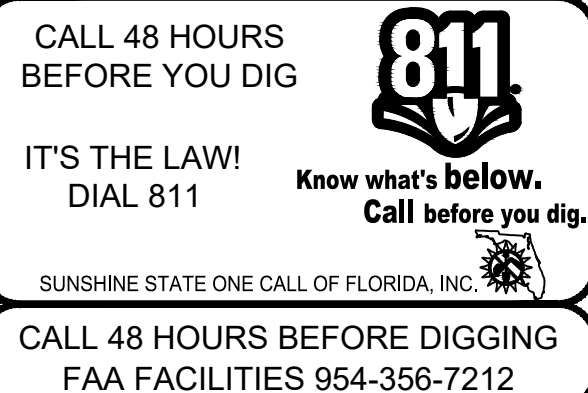
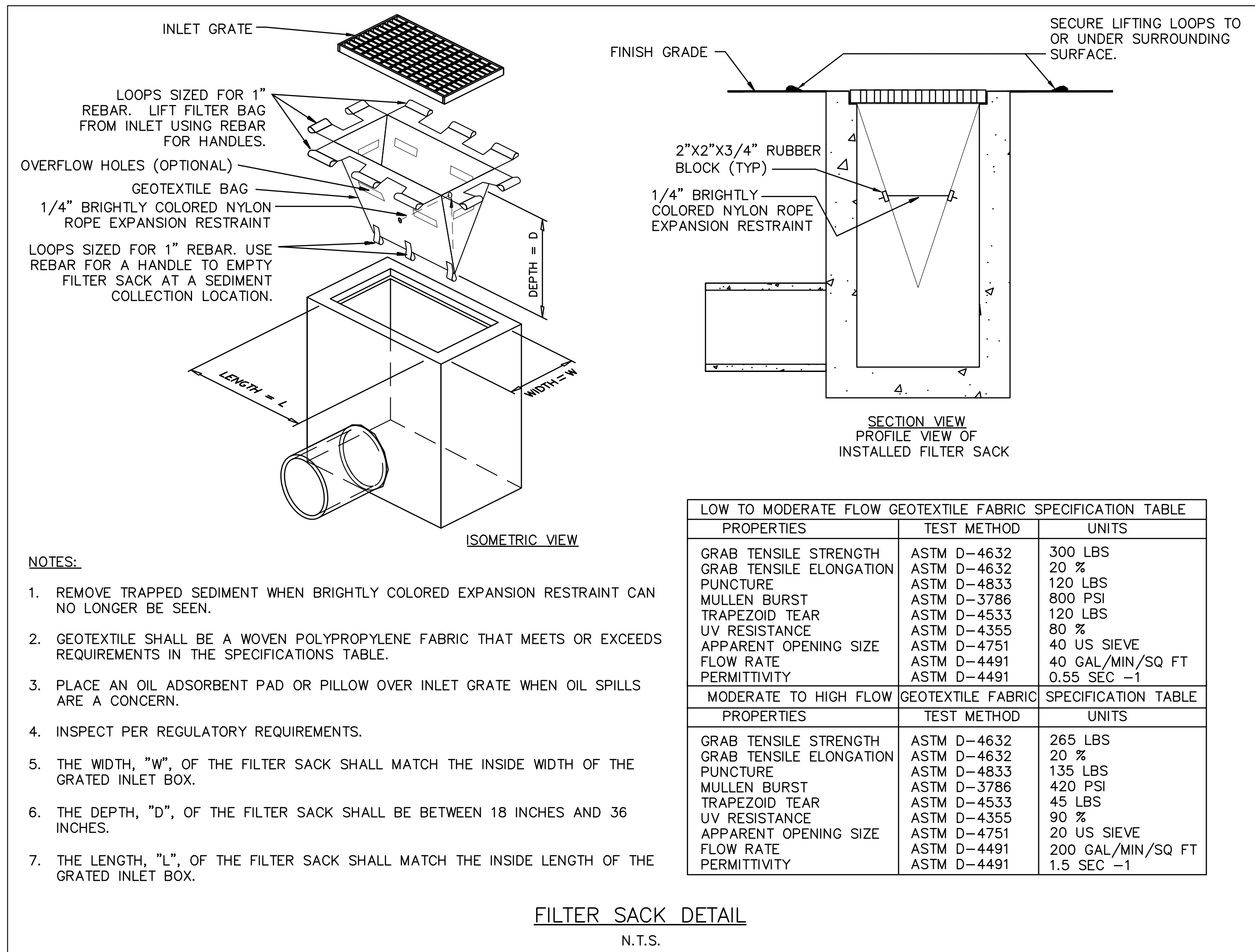


BEST MANAGEMENT PRACTICE SEQUENCE:

1. INSTALL SILT FENCE AND INLET PROTECTION DEVICES ON EXISTING STRUCTURES.
2. BEGIN CLEARING AND GRUBBING THE SITE.
3. BEGIN DEMOLITION AND GRADING THE SITE.
4. START CONSTRUCTION OF THE FACILITIES.
5. TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE.
6. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
7. AT CONSTRUCTION COMPLETION CONTRACTOR IS TO ENSURE THAT ALL SEDIMENT BUILD UP IS REMOVED FROM ALL DRAINAGE SWALES, SEWERS, AND STRUCTURES. THIS IS AN OBLIGATION OF THE CONTRACTOR AND IS INCIDENTAL TO THE C-102 PAY ITEM.

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY EROSION OR WATER QUALITY PROBLEMS THAT RESULT FROM THE CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK WHICH SHALL BE ON SITE AT ALL TIMES. THE TRUCK SHALL BE USED TO PROVIDE DUST CONTROL IN THE WORK AREA AS WELL AS CONTRACTOR STAGING AREAS AND HAUL ROUTES.



BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
EROSION CONTROL DETAILS

SHEET NO. 12764-C502-DETL
TOTAL: 110
CAD FILE: 12764-C502-DETL
DRAWING FILE NO.

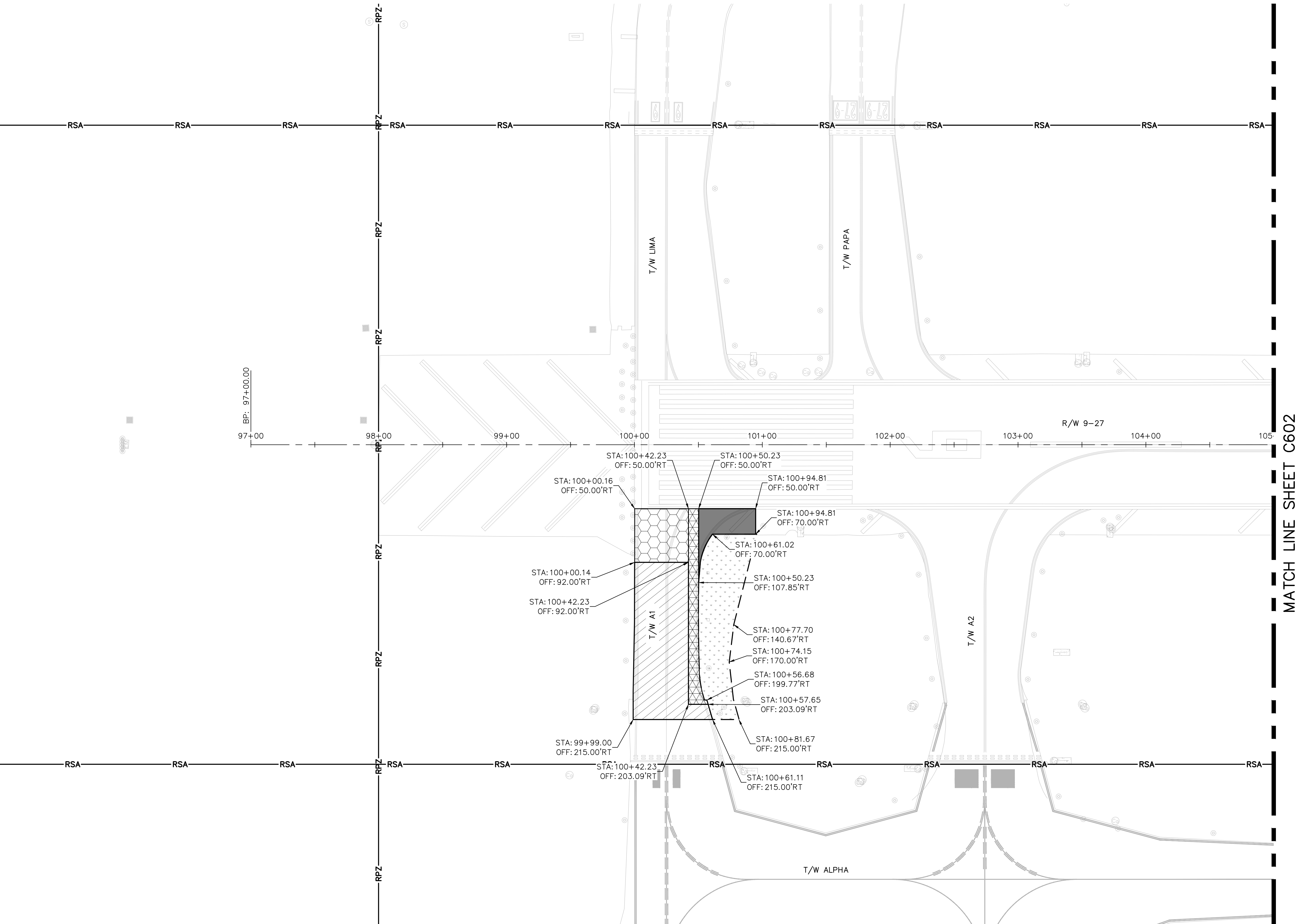
ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62476
DATE:

DRAWN BY: ALB
DESIGNED BY: KAS
CHECKED BY: TFO
DATE: 06/07/2024
SCALE: AS NOTED
FIELD BOOK:

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

NO.	REVISIONS		DESCRIPTION
	BY	CHK'D	

K:\FLTAVIATION\044693151_FXE_RW_9-27_REHAB\CADD\PLANSHEETS\12764--MULTI--DEMO--ALT1.DWG



NOTES

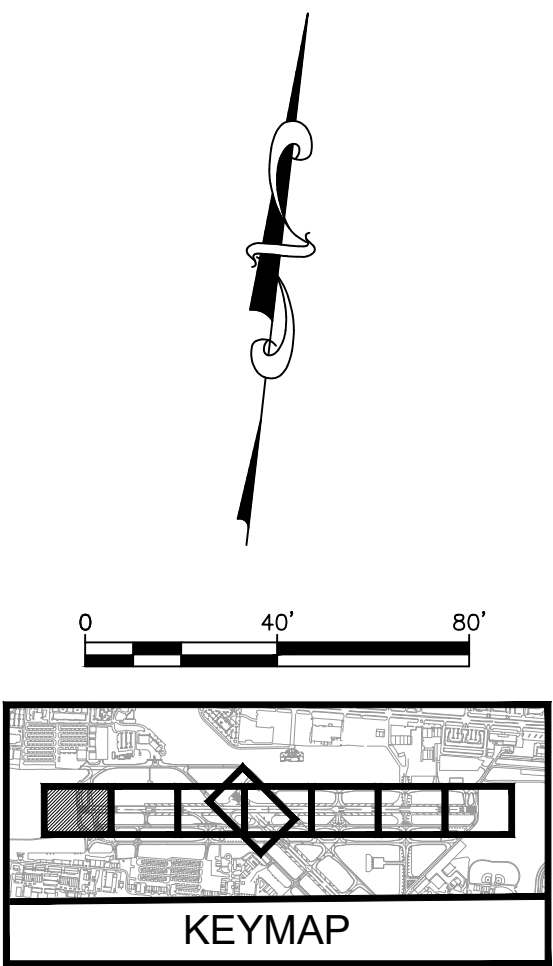
1. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO OBTAIN UNDERGROUND UTILITY LOCATION AS REQUIRED BY LAW. SEE GENERAL NOTES SHEET C01. ALL FACILITIES ARE TO REMAIN EXCEPT WHERE OTHERWISE SHOWN. TAKE CARE DURING CONSTRUCTION TO AVOID DAMAGE TO EXISTING ABOVE GROUND AND UNDERGROUND FACILITIES.
2. EXPOSED SUBGRADE AND BASE MATERIAL TO BE KEPT MOIST AND COMPACTED TO MINIMIZE FOD FROM JET BLAST AND SHALL BE TREATED WITH A DUST STABILIZER WHEN REQUESTED BY THE RPR OR OWNER. ALL DUST CONTROL RELATED COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. CONTRACTOR WILL PROTECT ALL EXISTING CONCRETE OR ASPHALT PAVEMENT TO REMAIN IN PLACE DURING MILLING AND FULL DEPTH PAVEMENT REMOVAL. ALL CONCRETE OR ASPHALT PAVEMENT DAMAGED DURING MILLING AND REMOVAL SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE BY A METHOD SATISFACTORY TO THE RPR AND OWNER.
4. CONTRACTOR SHALL USE A METHOD OF MARKING REMOVAL THAT DOES NOT DAMAGE THE EXISTING PAVEMENT AND JOINT SEALS. ANY DAMAGE CAUSED TO THE EXISTING PAVEMENT AND JOINT SEALS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL PROTECT ALL MARKINGS TO REMAIN. ANY MARKINGS THAT ARE DAMAGED OR INADVERTENTLY REMOVED SHALL BE REPAINTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
6. CONTRACTOR SHALL PROTECT ALL IN-PAVEMENT CENTERLINE LIGHTS, AND EDGE LIGHTS, FAA FACILITIES, NAVAIDS AND CABLES AT ALL TIMES DURING CONSTRUCTION. HAND DIG AROUND FAA CABLES.
7. EXISTING RAW WATER MAIN AND FIBER OPTIC LINE (+/- 30" BELOW GROUND LEVEL) TO BE PROTECTED THROUGH DURATION OF WORK. CONTRACTOR TO PERFORM UTILITY SOFT DIG TO CONFIRM DEPTH AND LOCATION OF ALL UTILITIES IN THE WORK AREAS. CONTRACTOR TO PRESENT RESULTS OF THE UTILITY SOFT DIG TO THE ENGINEER.
8. REFER TO THE ELECTRICAL PLAN SHEETS FOR THE SCOPE OF WORK FOR ANY LIGHTING, SIGNAGE, OR OTHER ELECTRICAL COMPONENTS. PRIOR TO STARTING THE MILLING OPERATION, THE CONTRACTOR WILL REMOVE ALL LIGHT FIXTURES AND PROTECT EXISTING BASE CANS. SEE ELECTRICAL SHEETS FOR SCOPE AND DETAILS.
9. CONTRACTOR TO MILL AROUND EXISTING SIGN PAD.
10. CONTRACTOR TO USE CAUTION WHEN MILLING IN AREA WHICH CONTAINS EXISTING ASPHALT FIBERGLASS INTERLAYER. THIS MATERIAL IS LOCATED

LEGEND (WORK)

- SAWCUT AND REMOVE FULL DEPTH ASPHALT AND BASE
- 2" DEEP ASPHALT PAVEMENT MILL IN LOCATIONS WITHOUT EXISTING FIBERGLASS INTERLAYER. REFER TO TYPICAL SECTION SHEETS C401 TO C403
- VARIABLE DEPTH ASPHALT PAVEMENT PROFILE MILL. 2" BELOW FINAL GRADE. REFER TO TYPICAL SECTION SHEETS C401 TO C403
- 4" DEEP ASPHALT MILL
- CLEARING AND GRUBBING/EXCAVATION

LEGEND (LINE TYPE)

- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE



ENGINEER:
THOMAS F. O'DONNELL
PROJ. NO: 12764
DATE: 06/07/2024

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

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

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHK'D

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
DEMOLITION PLAN - ADD ALT 1

SHEET NO. OF
C601A
TOTAL: 110
CAD FILE:
12764--MULTI--DEMO--ALT1
DRAWING FILE NO.

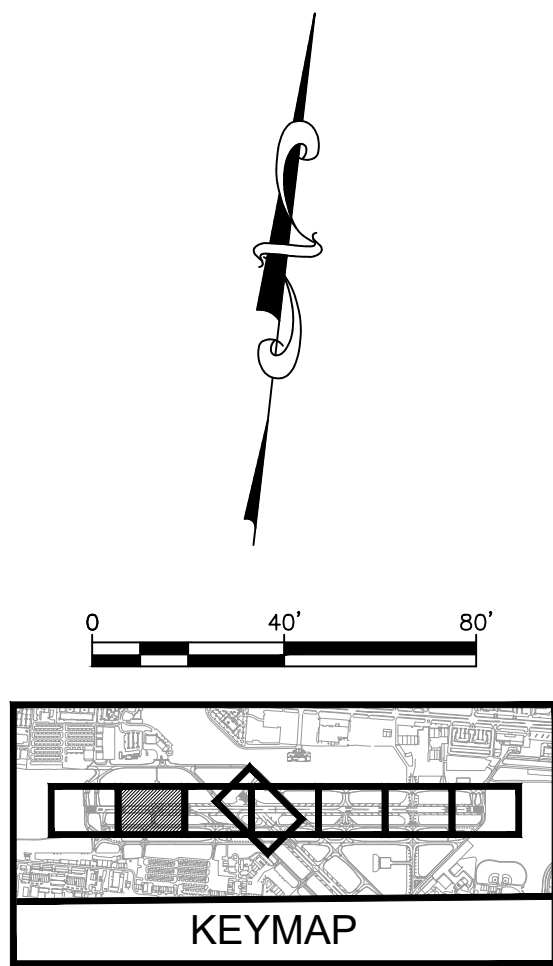
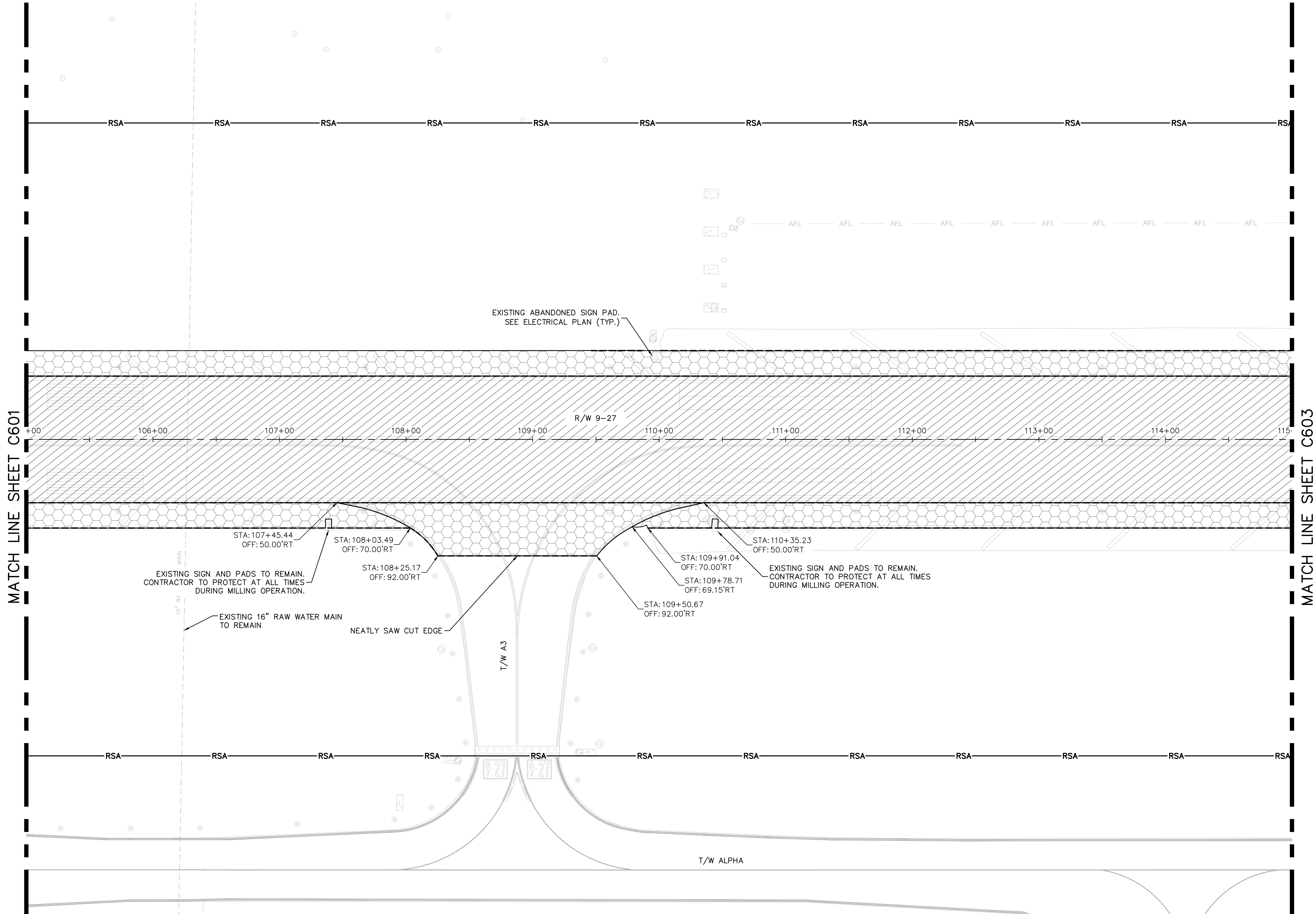
Kimley-Horn
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600 PETERS ROAD, SUITE 200 WEST PALM BEACH, FL 33411
PHONE: 561-999-1100 FAX: 561-739-2201
WWW.KIMLEY-HORN.COM REGISTRY NO. 35056

QUANTUM
Electrical Engineering, Inc.
2761 VISTA PARKWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL: 335-9324
LICENSE NO. CA38855

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BID SET

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NOTES

- UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO OBTAIN UNDERGROUND UTILITY LOCATION AS REQUIRED BY LAW. SEE GENERAL NOTES SHEET C01. ALL FACILITIES ARE TO REMAIN EXCEPT WHERE OTHERWISE SHOWN. TAKE CARE DURING CONSTRUCTION TO AVOID DAMAGE TO EXISTING ABOVE GROUND AND UNDERGROUND FACILITIES.
- EXPOSED SUBGRADE AND BASE MATERIAL TO BE KEPT MOIST AND COMPACTED TO MINIMIZE FOD FROM JET BLAST AND SHALL BE TREATED WITH A DUST STABILIZER WHEN REQUESTED BY THE RPR OR OWNER. ALL DUST CONTROL RELATED COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR WILL PROTECT ALL EXISTING CONCRETE OR ASPHALT PAVEMENT TO REMAIN IN PLACE DURING MILLING AND FULL DEPTH PAVEMENT REMOVAL. ALL CONCRETE OR ASPHALT PAVEMENT DAMAGED DURING MILLING AND REMOVAL SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE BY A METHOD SATISFACTORY TO THE RPR AND OWNER.
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- EXISTING RAW WATER MAIN AND FIBER OPTIC LINE (+/- 30" BELOW GROUND LEVEL) TO BE PROTECTED THROUGH DURATION OF WORK. CONTRACTOR TO PERFORM UTILITY SOFT DIG TO CONFIRM DEPTH AND LOCATION OF ALL UTILITIES IN THE WORK AREAS. CONTRACTOR TO PRESENT RESULTS OF THE UTILITY SOFT DIG TO THE ENGINEER.
- REFER TO THE ELECTRICAL PLAN SHEETS FOR THE SCOPE OF WORK FOR ANY LIGHTING, SIGNAGE, OR OTHER ELECTRICAL COMPONENTS. PRIOR TO STARTING THE MILLING OPERATION, THE CONTRACTOR WILL REMOVE ALL LIGHT FIXTURES AND PROTECT EXISTING BASE CANS. SEE ELECTRICAL SHEETS FOR SCOPE AND DETAILS.
- CONTRACTOR TO MILL AROUND EXISTING SIGN PAD.
- CONTRACTOR TO USE CAUTION WHEN MILLING IN AREA WHICH CONTAINS EXISTING ASPHALT FIBERGLASS INTERLAYER. THIS MATERIAL IS LOCATED APPROXIMATELY 2 INCHES BELOW THE ASPHALT SURFACE IN THE AREAS APPROXIMATELY NOTED ON THE PLANS. ANY DELAYS RESULTING FROM MILLING THROUGH THIS LAYER WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY.

LEGEND (WORK)

- 2" DEEP ASPHALT PAVEMENT MILL IN LOCATIONS WITHOUT EXISTING FIBERGLASS INTERLAYER. REFER TO TYPICAL SECTION SHEETS C401 TO C403
- 1" DEEP ASPHALT PAVEMENT MILL IN LOCATIONS WITH EXISTING FIBERGLASS INTERLAYER. REFER TO TYPICAL SECTION SHEETS C401 TO C403
- VARIABLE DEPTH ASPHALT PAVEMENT PROFILE MILL. 2" BELOW FINAL GRADE. REFER TO TYPICAL SECTION SHEETS C401 TO C403
- PAINT REMOVAL
- CLEARING AND GRUBBING/EXCAVATION

LEGEND (LINE TYPE)

- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE



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BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
DEMOLITION PLAN

SHEET NO.	OF
C602	
TOTAL:	110
CAD FILE:	12764--MULTI--DEMO
DRAWING FILE NO.	

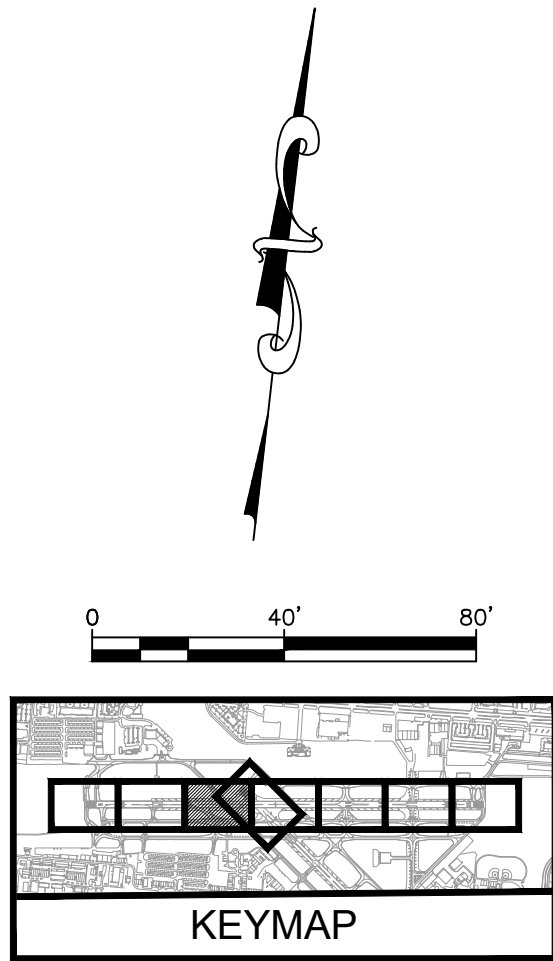
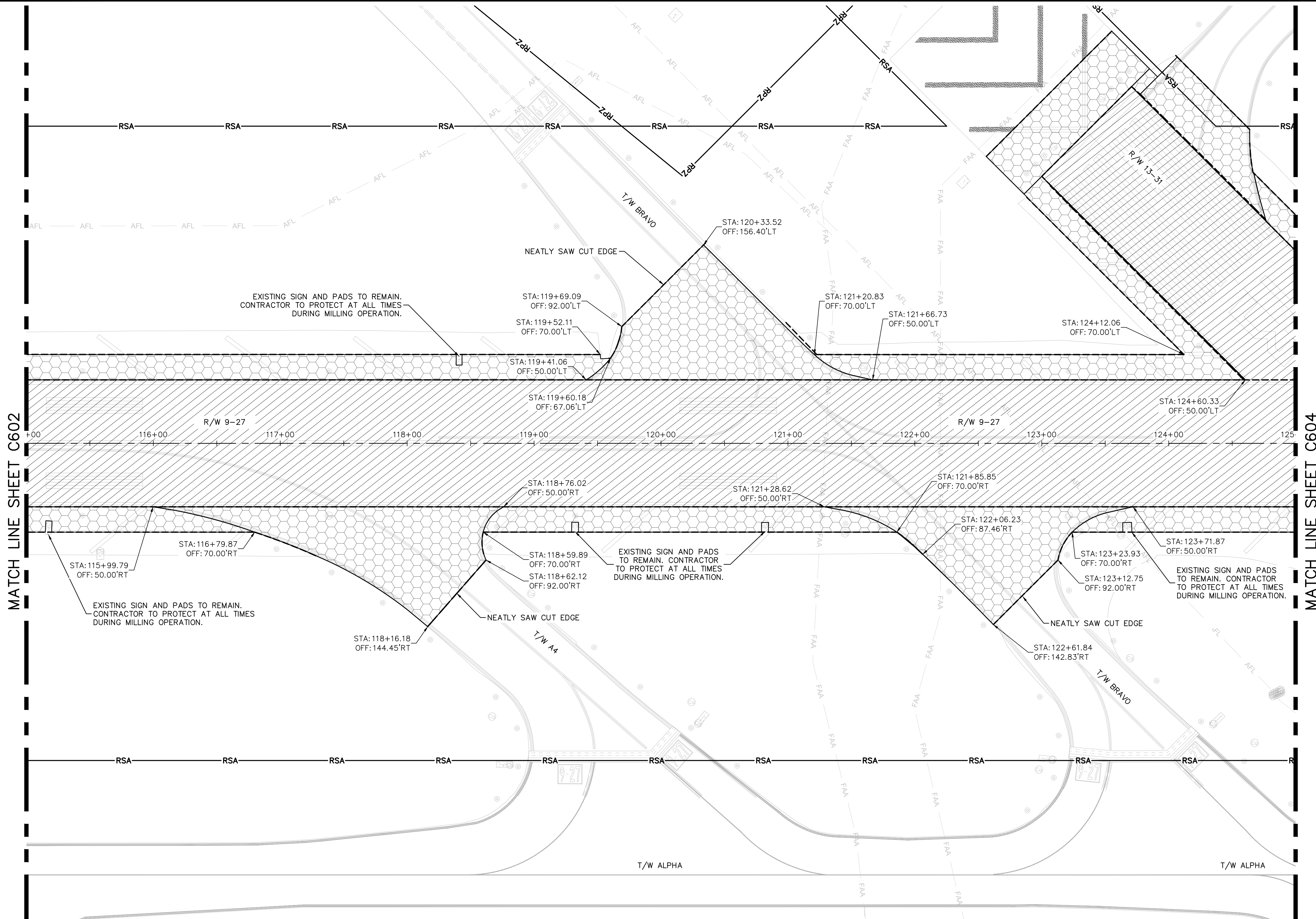
ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62478
DATE:

DRAWN BY:	DATE:
ALB	06/07/2024
DESIGNED BY:	SCALE:
KAS	AS NOTED
CHECKED BY:	
TFO	
FIELD BOOK:	

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

NO.	DATE	BY	CHK'D	REVISIONS	DESCRIPTION

K:\FLT\AVIATION\04693151_FXE_RW_9-27_REHAB\CADD\PLANSHEETS\12764--MULTI--DEMO.DWG



NOTES

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- CLEARING AND GRUBBING/EXCAVATION

LEGEND (LINE TYPE)

- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE

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TEL: 335-9324
LICENSE NO. CA3805

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
DEMOLITION PLAN

SHEET NO. OF

C603

TOTAL: 110

CAD FILE:

12764--MULTI--DEMO

DRAWING FILE NO.

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

DRAWN BY: ALB
DESIGNED BY: SCALE: AS NOTED
CHECKED BY: KAS TFO
FIELD BOOK:

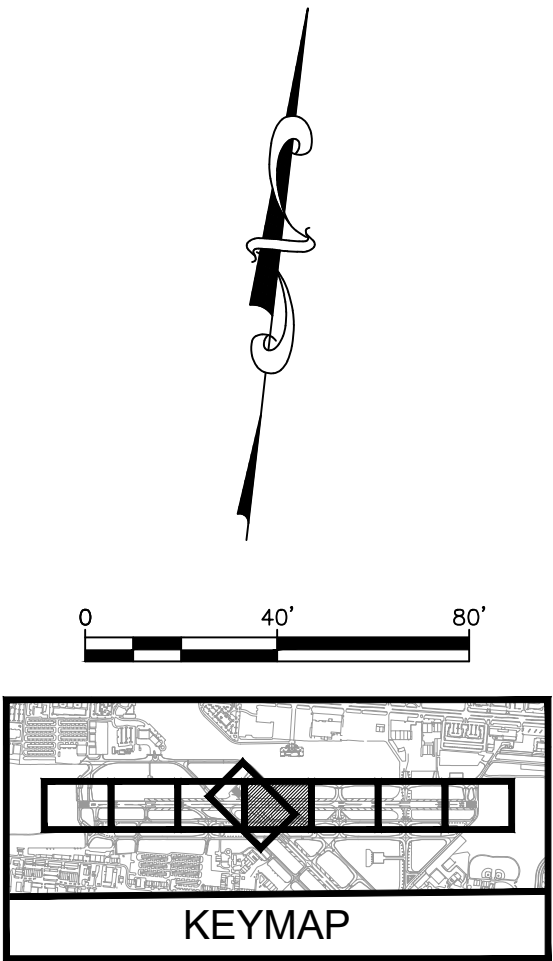
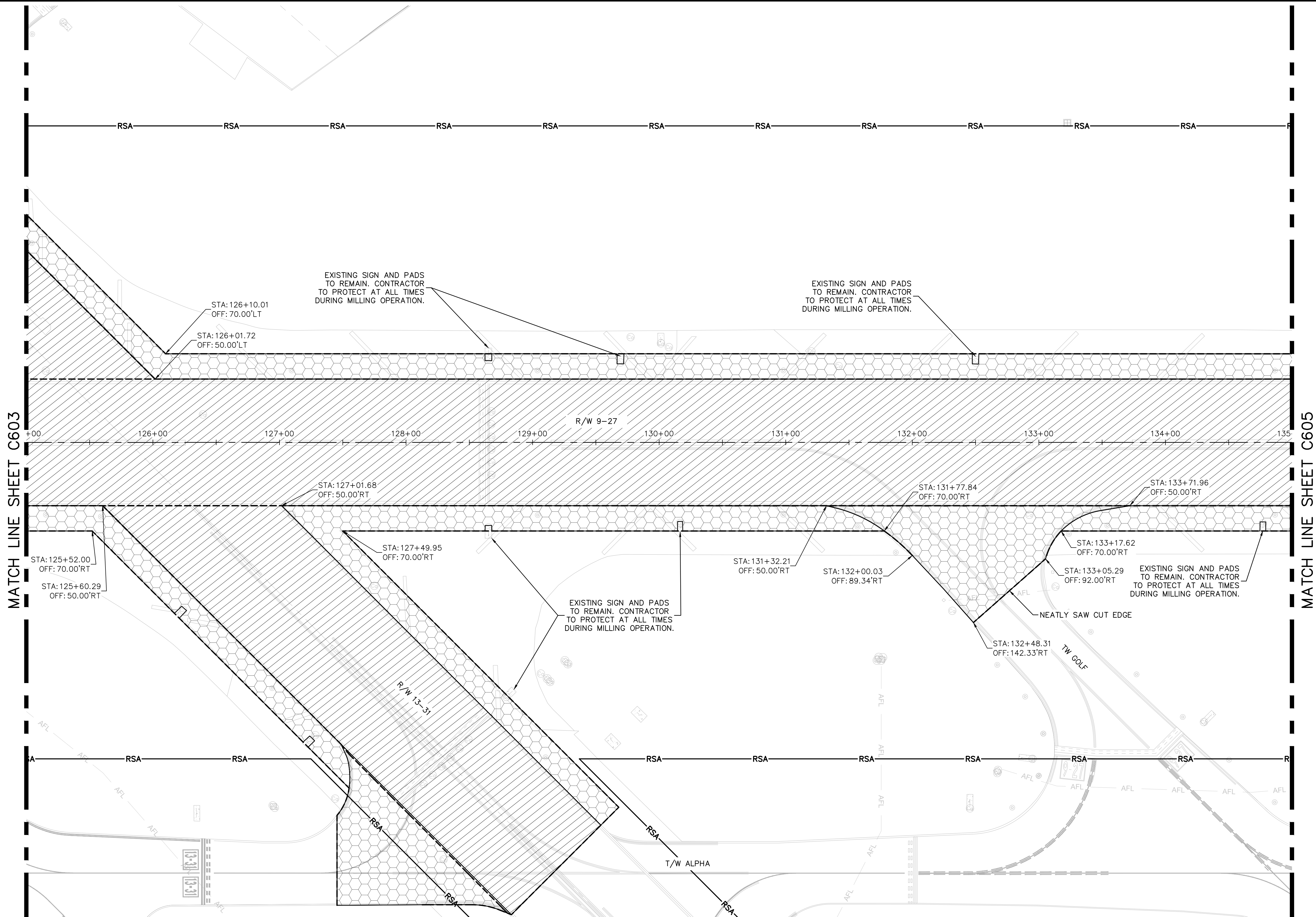
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301



TEL: 561-840-0825
FAX:

BID SET

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LEGEND (LINE TYPE)

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- RPZ RUNWAY PROTECTION ZONE

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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
DEMOLITION PLAN

SHEET NO. OF

C604

TOTAL: 110

CAD FILE:

12764--MULTI--DEMO

DRAWING FILE NO.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE



100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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

DRAWN BY: ALB
DATE: 06/07/2024
DESIGNED BY: KAS
SCALE: AS NOTED

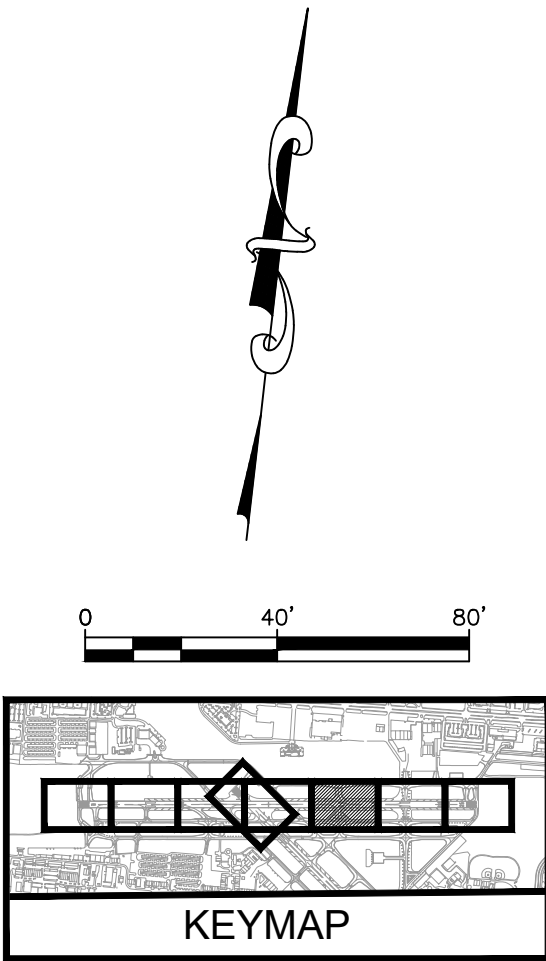
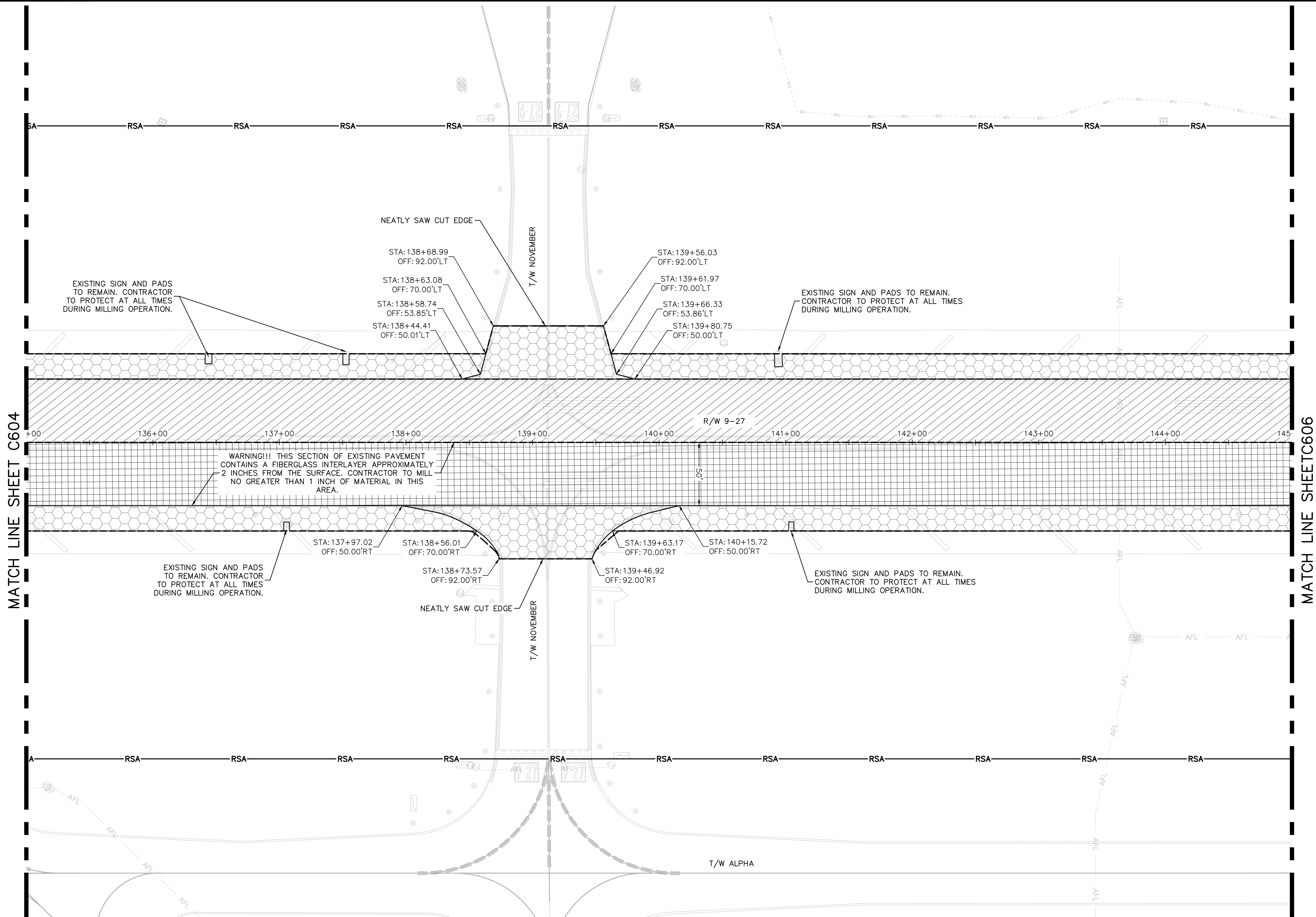
CHECKED BY: TFO

FIELD BOOK:

TEL: 561-840-0825
FAX:

BID SET

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LEGEND (LINE TYPE)

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- RPZ RUNWAY PROTECTION ZONE

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BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
DEMOLITION PLAN

SHEET NO. OF
C605
TOTAL: 110
CAD FILE:
12764--MULTI--DEMO
DRAWING FILE NO.

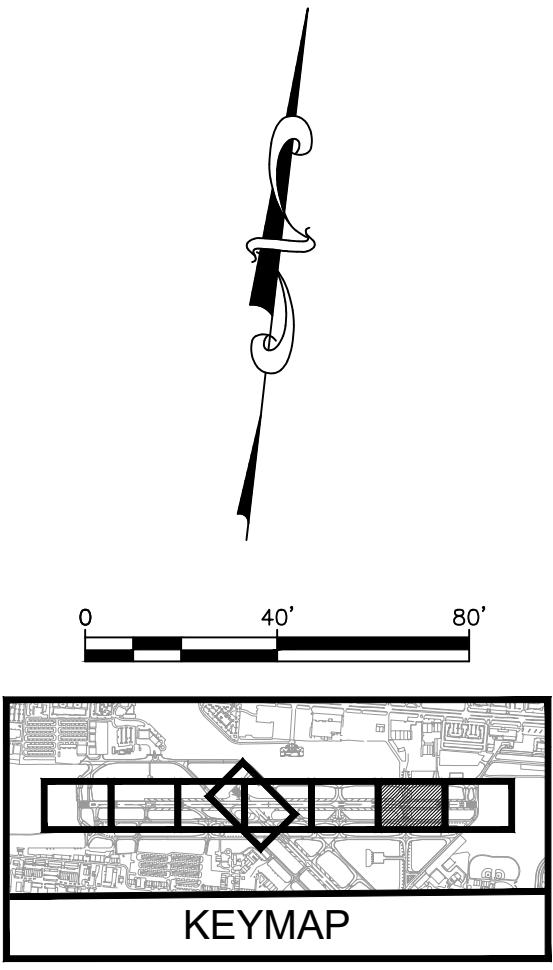
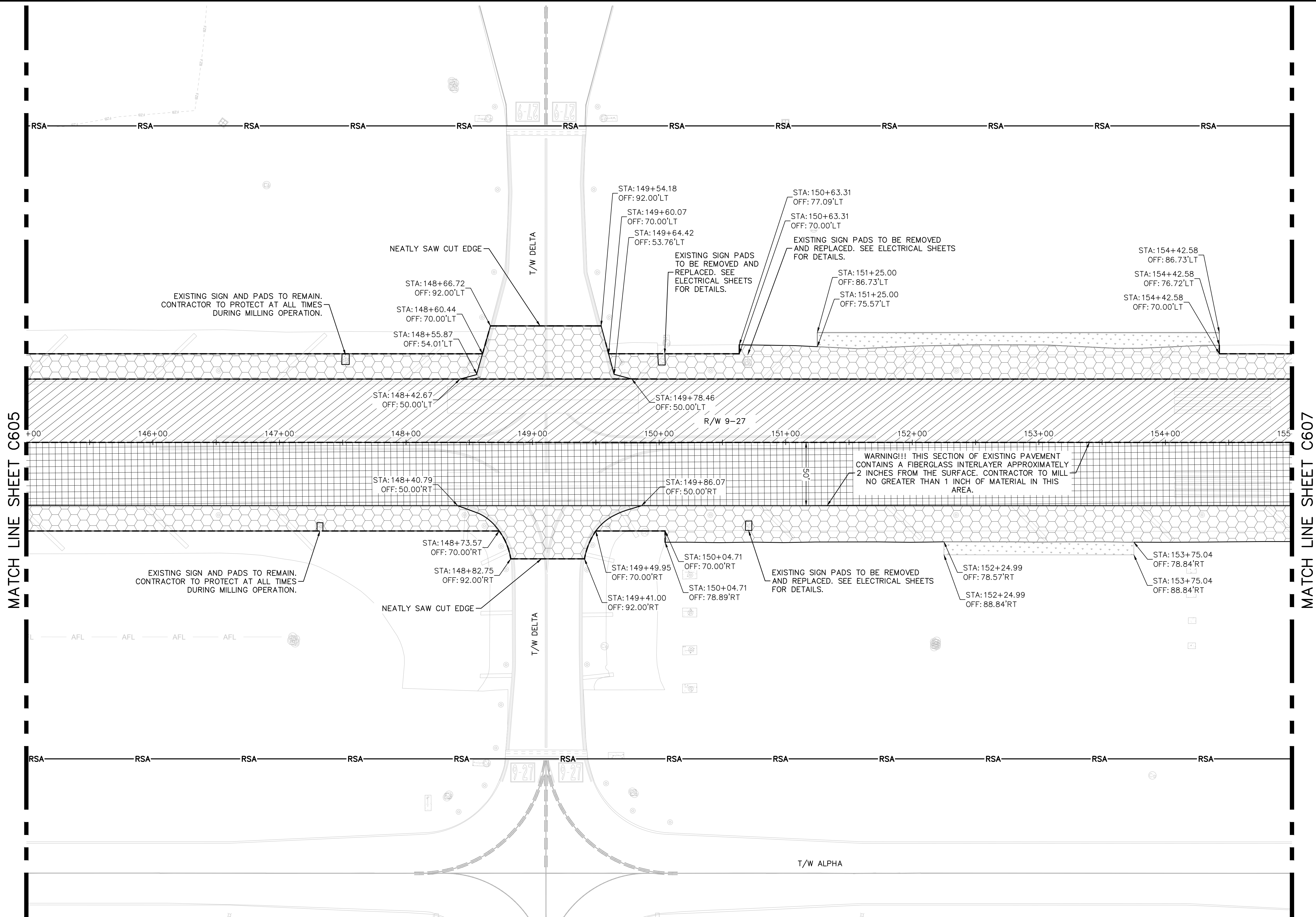
ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62476
DATE:

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

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

NO.	DATE	BY	CHK'D	DESCRIPTION

K:\FLT\AVIATION\044693151_FXE_RW_9-27_REHAB\CADD\PLANSHEETS\12764--MULTI--DEMO.DWG



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LEGEND (LINE TYPE)

- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE

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

DESIGNED BY: SCALE: AS NOTED
KAS
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FIELD BOOK:

TEL: 561-840-0825
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DRAWN BY: DATE: 06/07/2024
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DESIGNED BY: SCALE: AS NOTED
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FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
DEMOLITION PLAN

SHEET NO. OF
C606

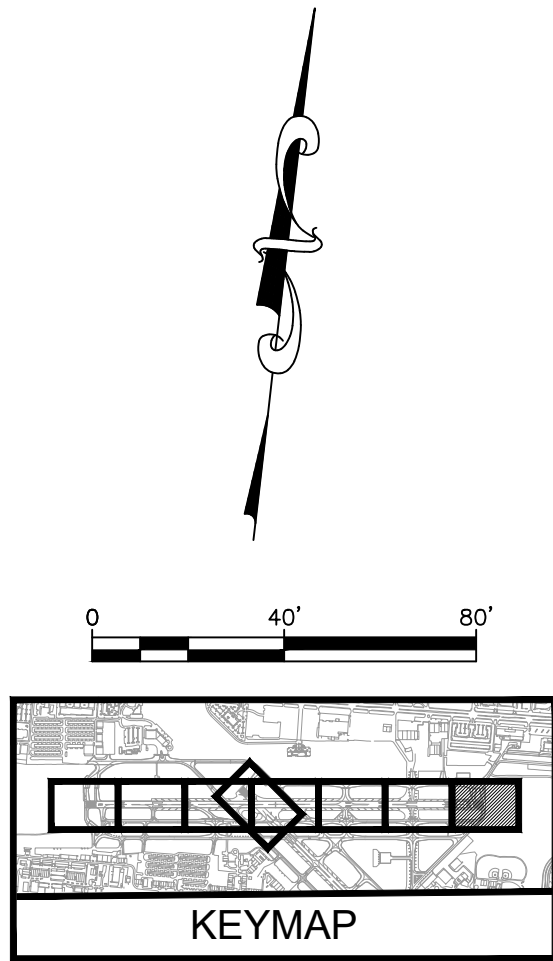
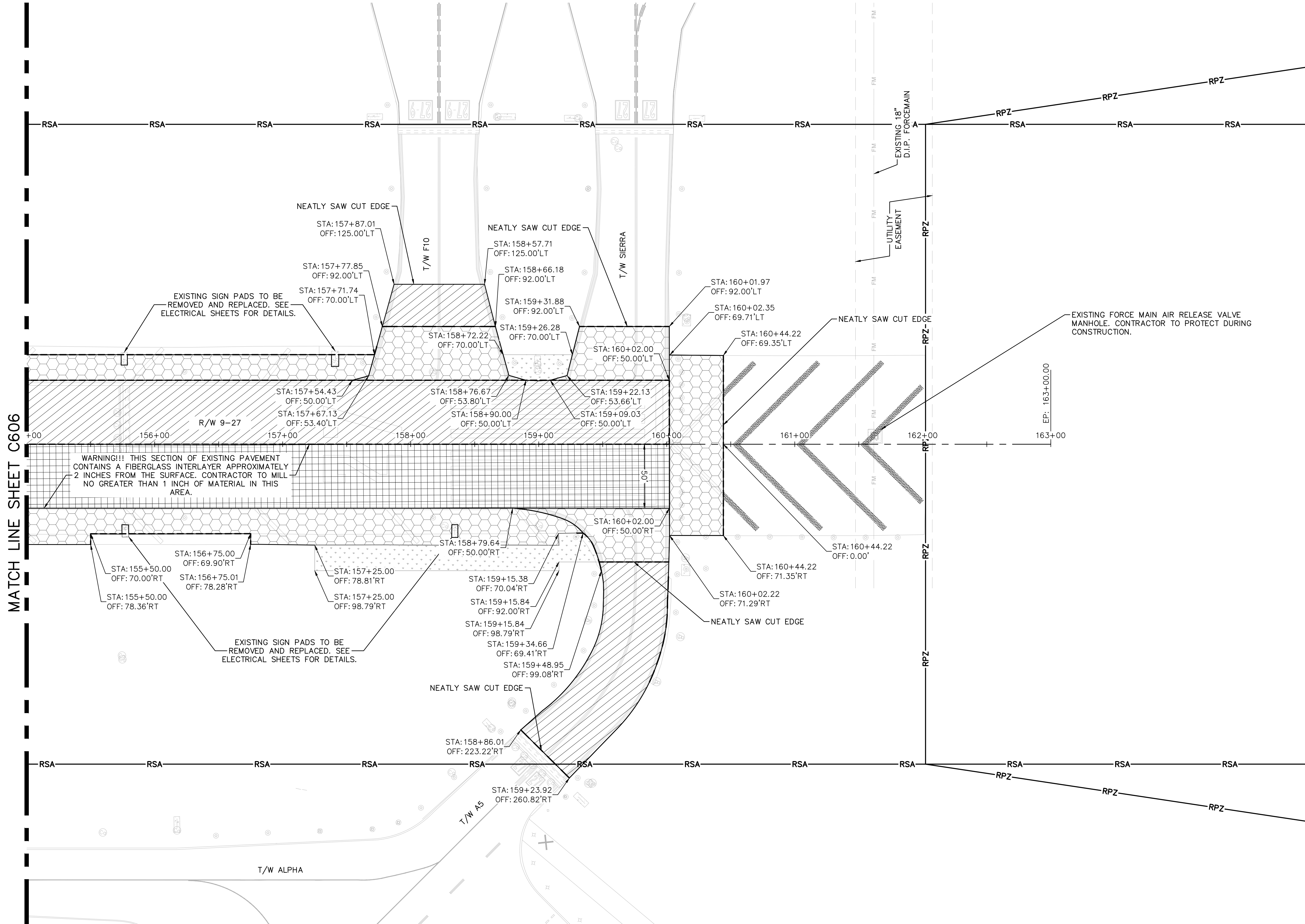
TOTAL: 110

CAD FILE:
12764--MULTI--DEMO

DRAWING FILE NO.

BID SET

K:\FLT\AVIATION\04693151_FXE_RW_9-27_REHAB\CADD\PLANSHEETS\12764--MULTI--DEMO.DWG



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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
DEMOLITION PLAN

SHEET NO. OF
C607
TOTAL: 110
CAD FILE:
12764--MULTI--DEMO
DRAWING FILE NO.

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

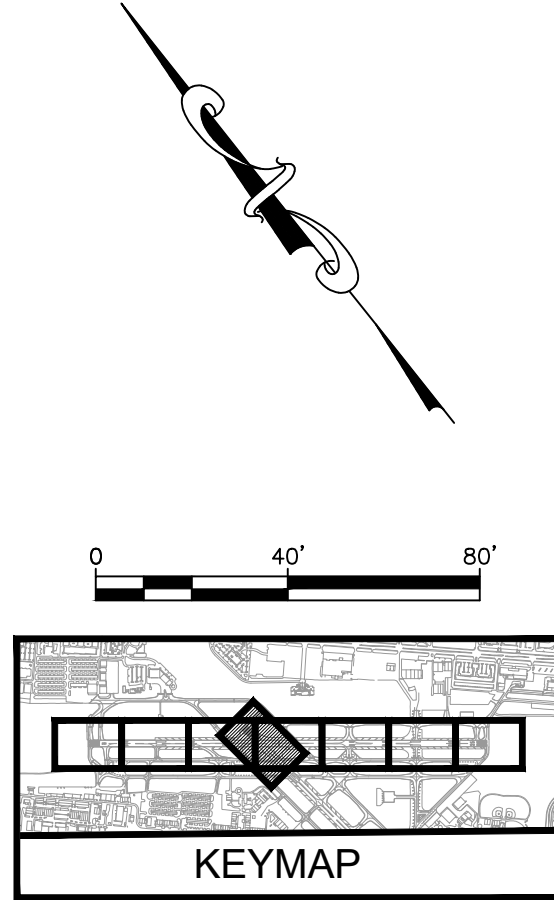
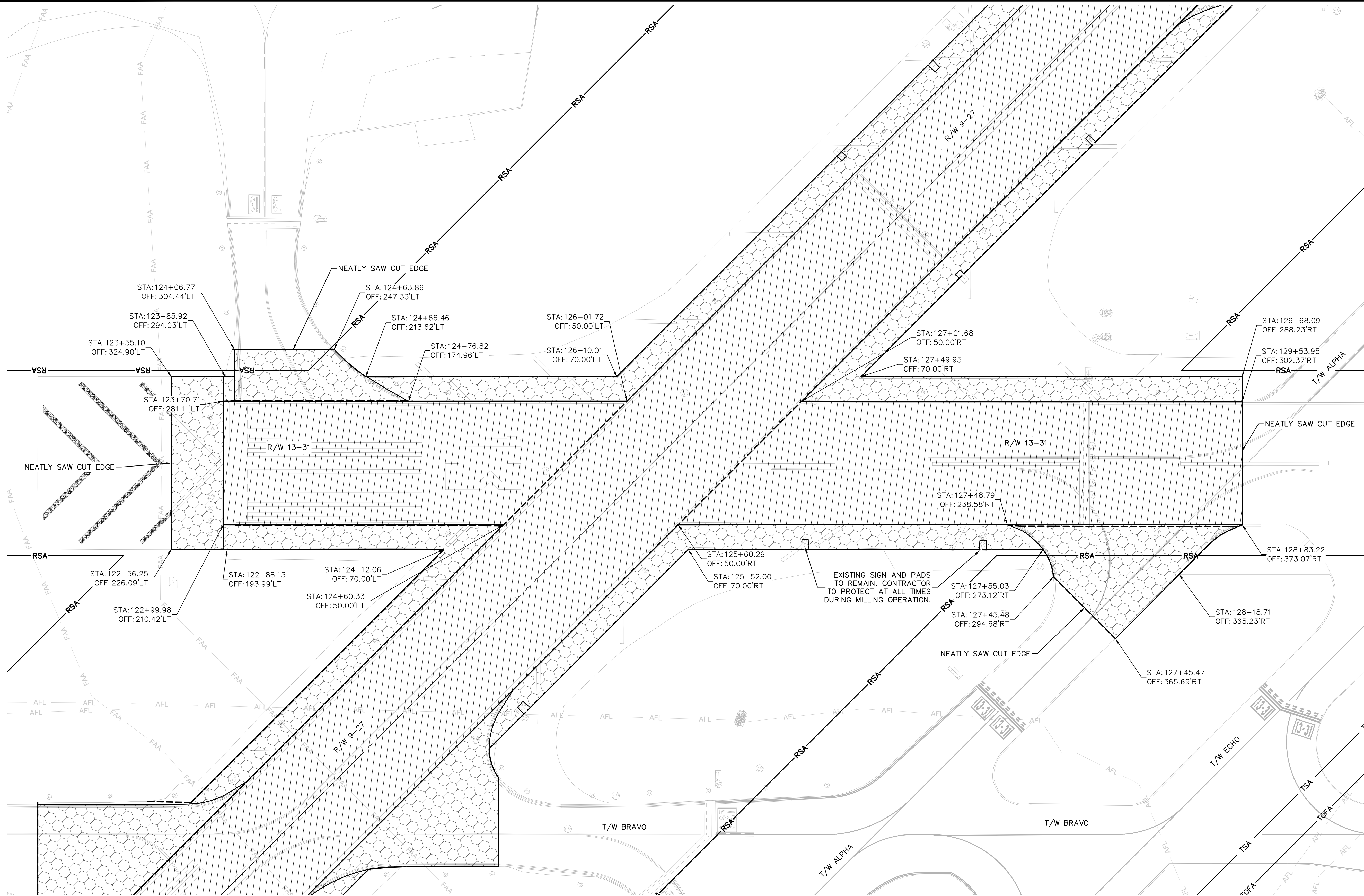
NO.	DATE	BY	CHK'D	REVISIONS
				DESCRIPTION

ENGINEER:
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Lic. No. 62478
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FIELD BOOK:

BID SET

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NOTES

- UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO OBTAIN UNDERGROUND UTILITY LOCATION AS REQUIRED BY LAW. SEE GENERAL NOTES SHEET C01. ALL FACILITIES ARE TO REMAIN EXCEPT WHERE OTHERWISE SHOWN. TAKE CARE DURING CONSTRUCTION TO AVOID DAMAGE TO EXISTING ABOVE GROUND AND UNDERGROUND FACILITIES.
- EXPOSED SUBGRADE AND BASE MATERIAL TO BE KEPT MOIST AND COMPACTED TO MINIMIZE FOD FROM JET BLAST AND SHALL BE TREATED WITH A DUST STABILIZER WHEN REQUESTED BY THE RPR OR OWNER. ALL DUST CONTROL RELATED COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR WILL PROTECT ALL EXISTING CONCRETE OR ASPHALT PAVEMENT TO REMAIN IN PLACE DURING MILLING AND FULL DEPTH PAVEMENT REMOVAL. ALL CONCRETE OR ASPHALT PAVEMENT DAMAGED DURING MILLING AND REMOVAL SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE BY A METHOD SATISFACTORY TO THE RPR AND OWNER.
- CONTRACTOR SHALL USE A METHOD OF MARKING REMOVAL THAT DOES NOT DAMAGE THE EXISTING PAVEMENT AND JOINT SEALS. ANY DAMAGE CAUSED TO THE EXISTING PAVEMENT AND JOINT SEALS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL PROTECT ALL MARKINGS TO REMAIN. ANY MARKINGS THAT ARE DAMAGED OR INADVERTENTLY REMOVED SHALL BE REPAINTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL PROTECT ALL IN-PAVEMENT CENTERLINE LIGHTS, AND EDGE LIGHTS, FAA FACILITIES, NAVAIDS AND CABLES AT ALL TIMES DURING CONSTRUCTION. HAND DIG AROUND FAA CABLES.
- EXISTING RAW WATER MAIN AND FIBER OPTIC LINE (+/- 30" BELOW GROUND LEVEL) TO BE PROTECTED THROUGH DURATION OF WORK. CONTRACTOR TO PERFORM UTILITY SOFT DIG TO CONFIRM DEPTH AND LOCATION OF ALL UTILITIES IN THE WORK AREAS. CONTRACTOR TO PRESENT RESULTS OF THE UTILITY SOFT DIG TO THE ENGINEER.
- REFER TO THE ELECTRICAL PLAN SHEETS FOR THE SCOPE OF WORK FOR ANY LIGHTING, SIGNAGE, OR OTHER ELECTRICAL COMPONENTS. PRIOR TO STARTING THE MILLING OPERATION, THE CONTRACTOR WILL REMOVE ALL LIGHT FIXTURES AND PROTECT EXISTING BASE CANS. SEE ELECTRICAL SHEETS FOR SCOPE AND DETAILS.
- CONTRACTOR TO MILL AROUND EXISTING SIGN PAD.
- CONTRACTOR TO USE CAUTION WHEN MILLING IN AREA WHICH CONTAINS EXISTING ASPHALT FIBERGLASS INTERLAYER. THIS MATERIAL IS LOCATED APPROXIMATELY 2 INCHES BELOW THE ASPHALT SURFACE IN THE AREAS APPROXIMATELY NOTED ON THE PLANS. ANY DELAYS RESULTING FROM MILLING THROUGH THIS LAYER WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY.

LEGEND (WORK)

- 2" DEEP ASPHALT PAVEMENT MILL IN LOCATIONS WITHOUT EXISTING FIBERGLASS INTERLAYER. REFER TO TYPICAL SECTION SHEETS C401 TO C403
- 1" DEEP ASPHALT PAVEMENT MILL IN LOCATIONS WITH EXISTING FIBERGLASS INTERLAYER. REFER TO TYPICAL SECTION SHEETS C401 TO C403
- VARIABLE DEPTH ASPHALT PAVEMENT PROFILE MILL. 2" BELOW FINAL GRADE. REFER TO TYPICAL SECTION SHEETS C401 TO C403
- PAINT REMOVAL
- CLEARING AND GRUBBING/EXCAVATION

LEGEND (LINE TYPE)

- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE

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Kimley»Horn

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PHONE: 561-920-1000 FAX: 561-739-2201
WWW.KIMLEY-HORN.COM REGISTRY NO. 35056

QUANTUM
Electrical Engineering, Inc.
2751 VISTA PARKWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL: 561-920-1000
LICENSE NO. CA38805

BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
DEMOLITION PLAN

SHEET NO. OF

C608

TOTAL: 110

CAD FILE:

12764-MULTI-DEMO

DRAWING FILE NO.

ENGINEER:
THOMAS F. O'DONNELL

PROJ. NO: 62476

DATE:

DRAWN BY: ALB

DATE: 06/07/2024

DESIGNED BY: SCALE: AS NOTED

CHECKED BY: KAS

TFO

FIELD BOOK:

CITY OF FORT LAUDERDALE

PUBLIC WORKS DEPARTMENT

ENGINEERING & ARCHITECTURE

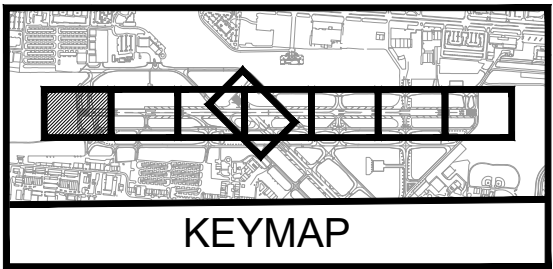
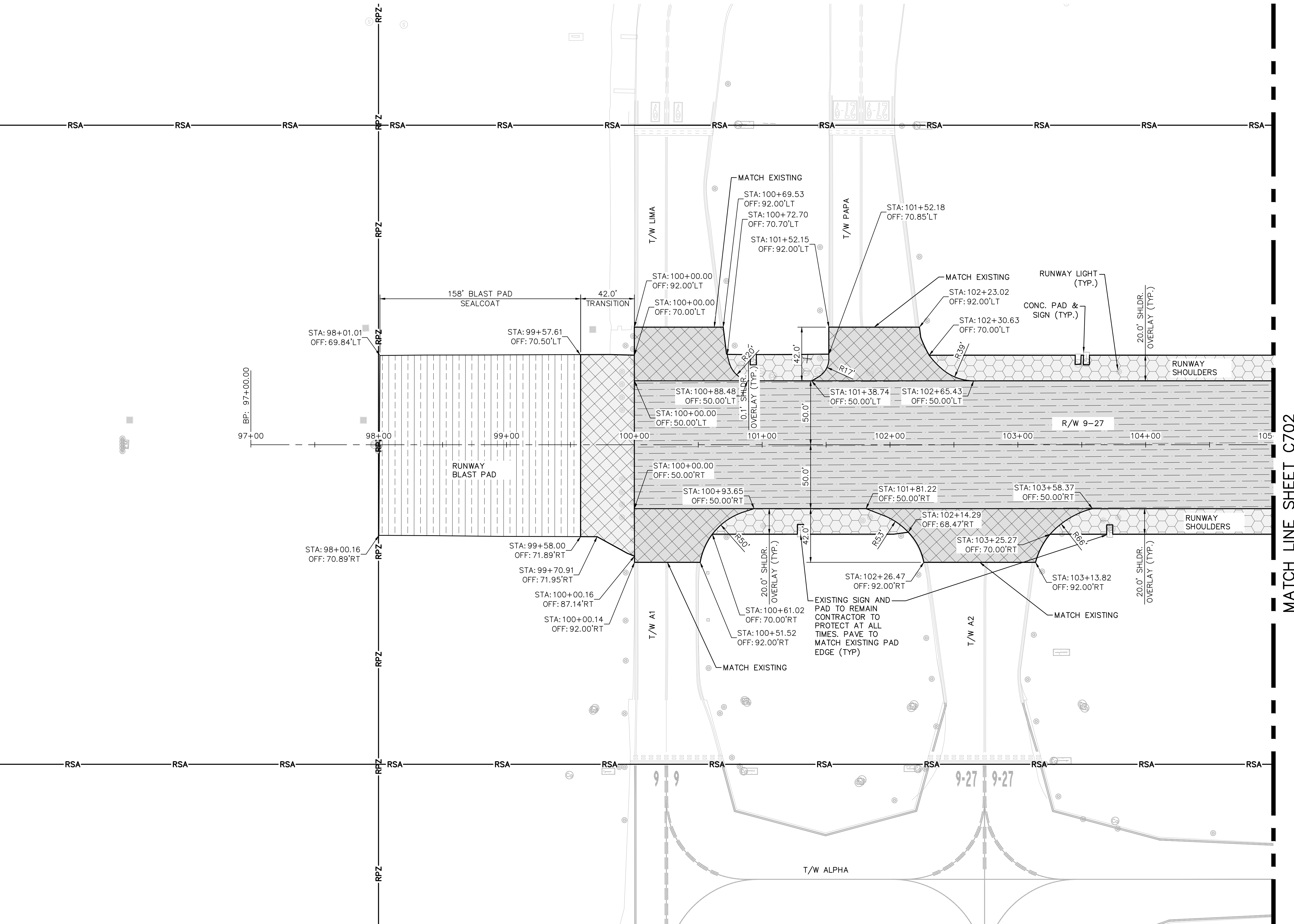


100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO. DATE BY CH'D DESCRIPTION

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NOTES

- UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE, CONTRACTOR TO OBTAIN UNDERGROUND UTILITY LOCATION AS REQUIRED BY LAW. SEE GENERAL NOTES SHEET C01. ALL FACILITIES ARE TO REMAIN EXCEPT WHERE OTHERWISE SHOWN. TAKE CARE DURING CONSTRUCTION TO AVOID DAMAGE TO EXISTING ABOVE GROUND AND UNDERGROUND FACILITIES.
- REFER TO SHEETS C401-C403 FOR "TYPICAL SECTIONS"
- REFER TO SHEETS C601-C608 FOR DEMOLITION REQUIREMENTS
- REFER TO SHEETS C801-C808 FOR GRADING PLANS
- CONTRACTOR WILL PROTECT ALL TAXIWAY EDGE LIGHTS TO REMAIN AS PER ELECTRICAL SHEETS DURING CONSTRUCTION.
- REFER TO THE ELECTRICAL PLAN SHEETS FOR TAXIWAY EDGE LIGHTS, SIGNS AND OTHER ELECTRICAL ITEMS TO BE RELOCATED.
- CONTRACTOR TO PAVE AROUND EXISTING SIGNS AND SIGN PADS WHICH ARE SCHEDULED TO REMAIN.

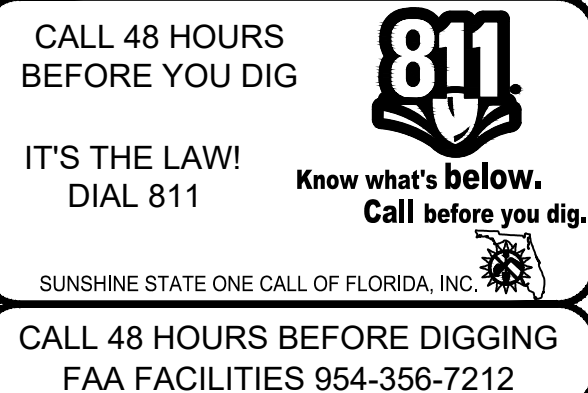
LEGEND (WORK)

- | | |
|--|--|
| | CONSTRUCT RUNWAY OVERLAY IN SECTION WITHOUT EXISTING FIBERGLASS INTERLAYER |
| | CONSTRUCT RUNWAY OVERLAY IN SECTION WITH EXISTING FIBERGLASS INTERLAYER |
| | CONSTRUCT RUNWAY SHOULDER OVERLAY TRANSITION |
| | APPLY RUNWAY BLAST PAD SEAL COAT |
| | SODDING |

- | | |
|--|-------------------------------------|
| | CONSTRUCT RUNWAY OVERLAY TRANSITION |
| | CONSTRUCT TAXIWAY OVERLAY |

LEGEND (LINE TYPE)

- | | | |
|--|-----|------------------------|
| | RSA | RUNWAY SAFETY AREA |
| | RPZ | RUNWAY PROTECTION ZONE |



PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT GEOMETRY PLAN

SHEET NO. OF
C701
TOTAL: 110
CAD FILE:
12764-MULTI-GEOM
DRAWING FILE NO.

ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62476
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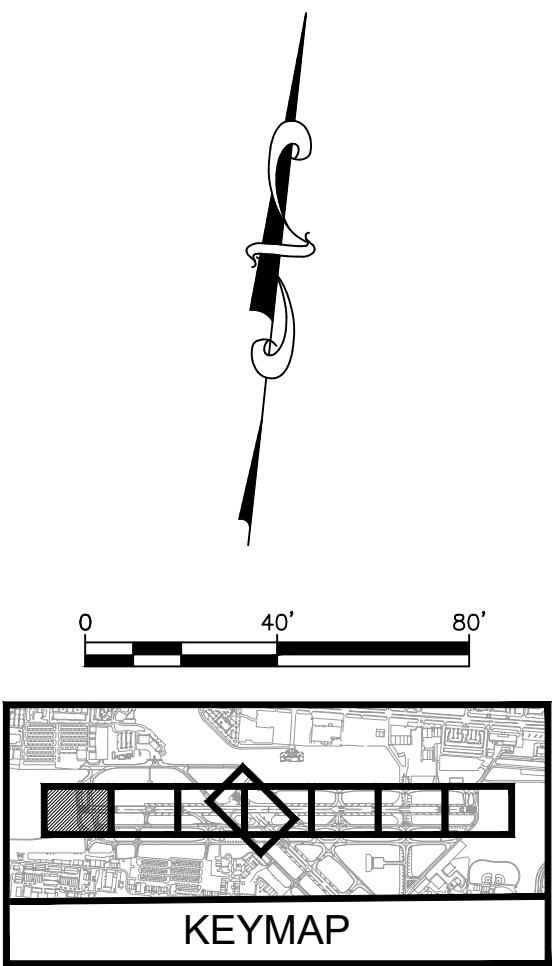
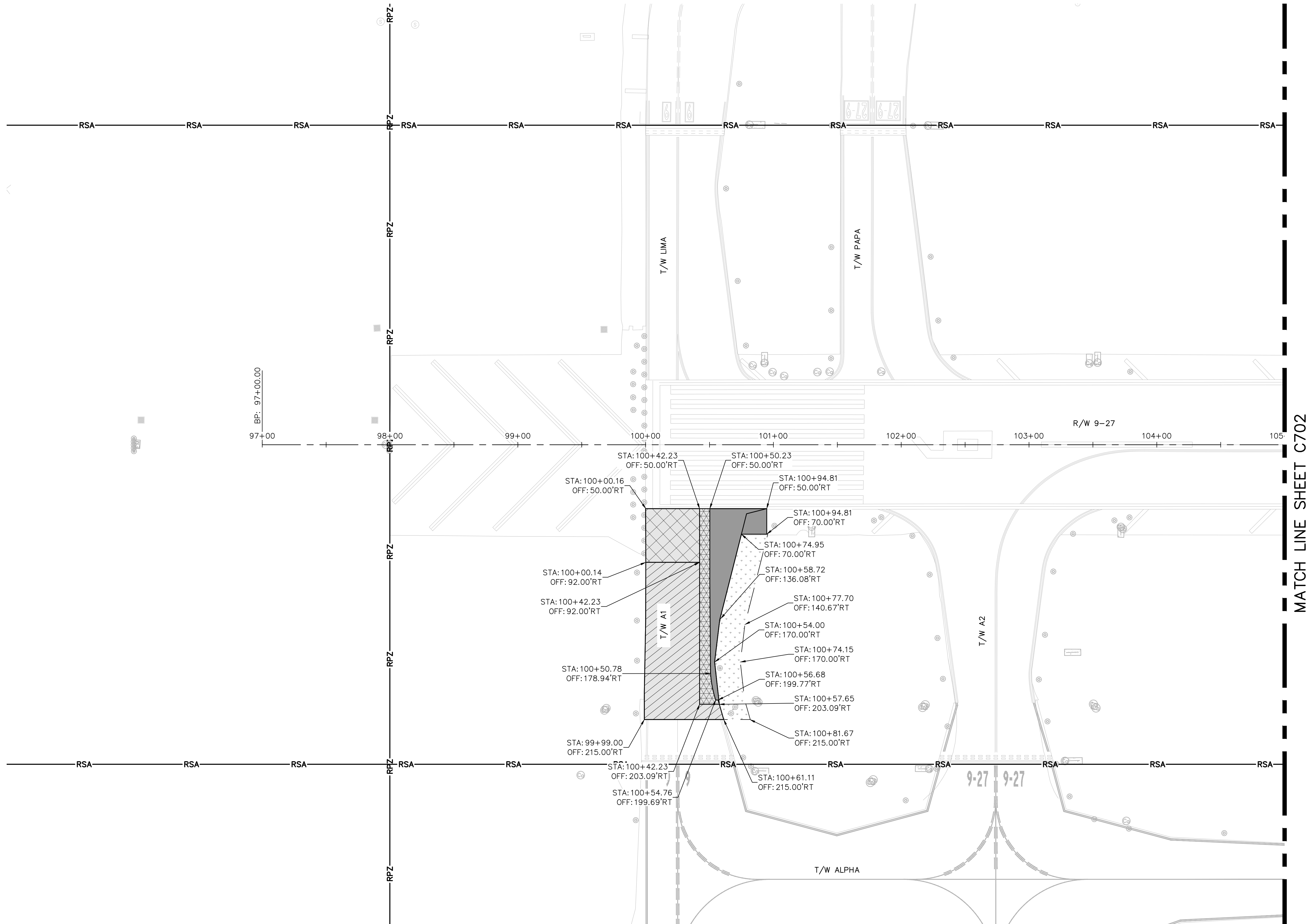
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PROJECT # 12764
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- REFER TO SHEETS C401-C404 FOR TYPICAL SECTIONS.
- CONTRACTOR WILL PROTECT ALL TAXIWAY EDGE LIGHTS TO REMAIN AS PER ELECTRICAL SHEETS DURING CONSTRUCTION
- REFER TO THE ELECTRICAL PLAN SHEETS FOR TAXIWAY EDGE LIGHTS, SIGNS AND OTHER ELECTRICAL ITEMS TO BE RELOCATED.
- COORDINATE WITH OWNER FOR LOCATION OF SALVAGED AIRPORT SIGNS
- CONTRACTOR TO PAVE AROUND EXISTING SIGNS WHICH ARE SCHEDULED TO REMAIN,

LEGEND (WORK)

- CONSTRUCT RUNWAY OVERLAY IN SECTION WITHOUT EXISTING FIBERGLASS INTERLAYER
- CONSTRUCT RUNWAY OVERLAY IN SECTION WITH EXISTING FIBERGLASS INTERLAYER
- CONSTRUCT RUNWAY SHOULDER OVERLAY TRANSITION
- APPLY RUNWAY BLAST PAD SEAL COAT
- SODDING

- CONSTRUCT RUNWAY OVERLAY TRANSITION
- CONSTRUCT TAXIWAY OVERLAY
- CONSTRUCT 4" MILL AND TAXIWAY OVERLAY TRANSITION
- CONSTRUCT NEW FULL STRENGTH TAXIWAY PAVEMENT SECTION TO GRADE

LEGEND (LINE TYPE)

- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE



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FAA FACILITIES 954-356-7212

BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT GEOMETRY PLAN - ADD ALT 1

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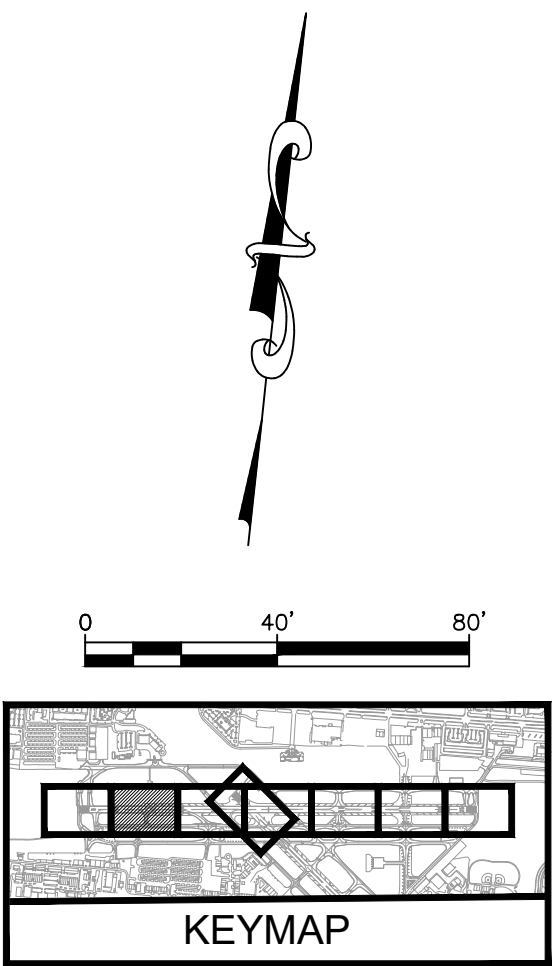
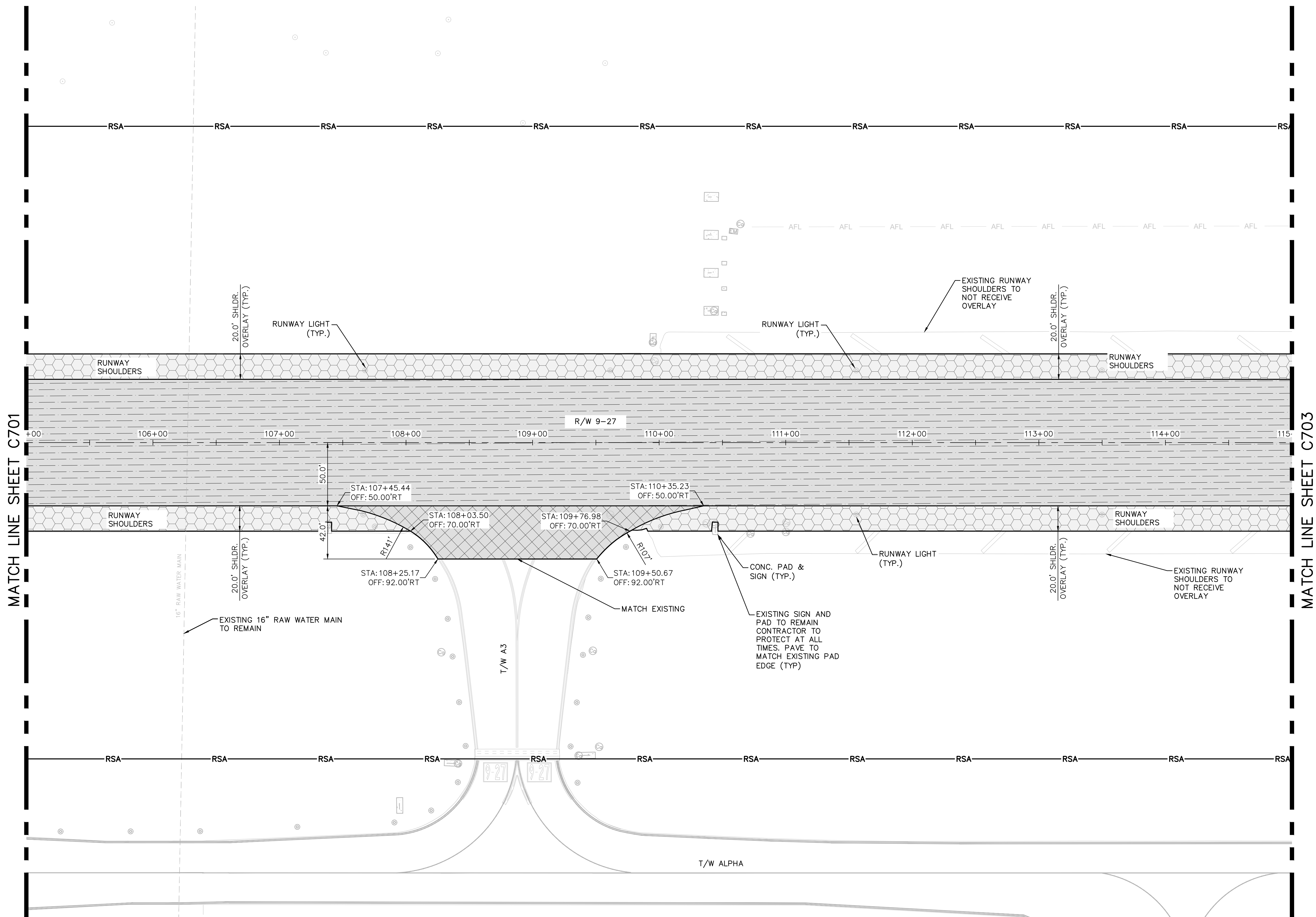
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY:	ALB	DATE:	06/07/2024
DESIGNED BY:	KAS	SCALE:	AS NOTED
CHECKED BY:	TFO		
FIELD BOOK:			

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

TEL: 561-840-0825
FAX:

K:\FLT\AVIATION\044693151_FYE_RW_9-27_REHAB\CADD\PLANSHEETS\12764-MULTI-GEOM.DWG



NOTES

- UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE, CONTRACTOR TO OBTAIN UNDERGROUND UTILITY LOCATION AS REQUIRED BY LAW. SEE GENERAL NOTES SHEET C01. ALL FACILITIES ARE TO REMAIN EXCEPT WHERE OTHERWISE SHOWN. TAKE CARE DURING CONSTRUCTION TO AVOID DAMAGE TO EXISTING ABOVE GROUND AND UNDERGROUND FACILITIES.
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- CONTRACTOR TO PAVE AROUND EXISTING SIGNS AND SIGN PADS WHICH ARE SCHEDULED TO REMAIN.

LEGEND (WORK)

- | | | | |
|--|--|--|-------------------------------------|
| | CONSTRUCT RUNWAY OVERLAY IN SECTION WITHOUT EXISTING FIBERGLASS INTERLAYER | | CONSTRUCT RUNWAY OVERLAY TRANSITION |
| | CONSTRUCT RUNWAY OVERLAY IN SECTION WITH EXISTING FIBERGLASS INTERLAYER | | CONSTRUCT TAXIWAY OVERLAY |
| | CONSTRUCT RUNWAY SHOULDER OVERLAY TRANSITION | | |
| | APPLY RUNWAY BLAST PAD SEAL COAT | | |
| | SODDING | | |

LEGEND (LINE TYPE)

- | | | |
|--|-----|------------------------|
| | RSA | RUNWAY SAFETY AREA |
| | RPZ | RUNWAY PROTECTION ZONE |



BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT GEOMETRY PLAN

SHEET NO. OF
C702
TOTAL: 110
CAD FILE:
12764-MULTI-GEOM
DRAWING FILE NO.

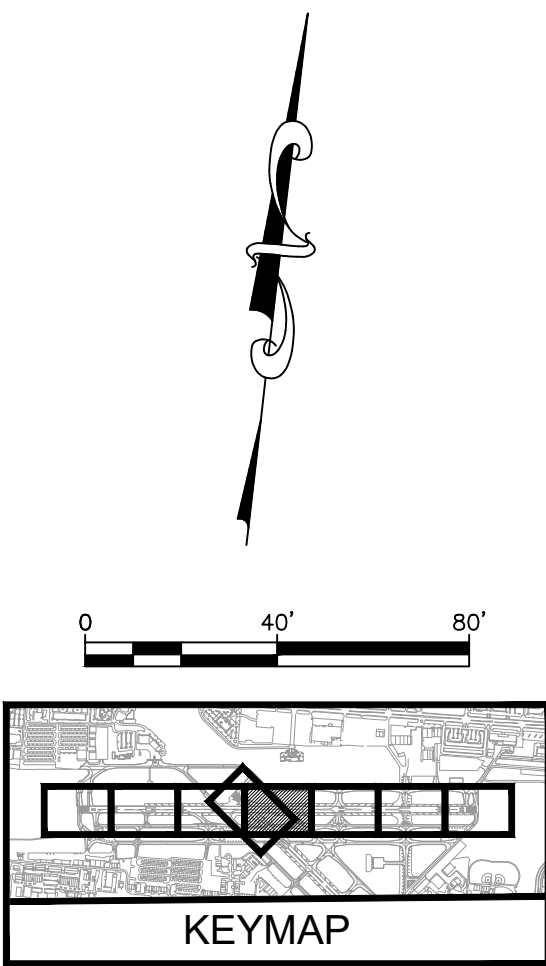
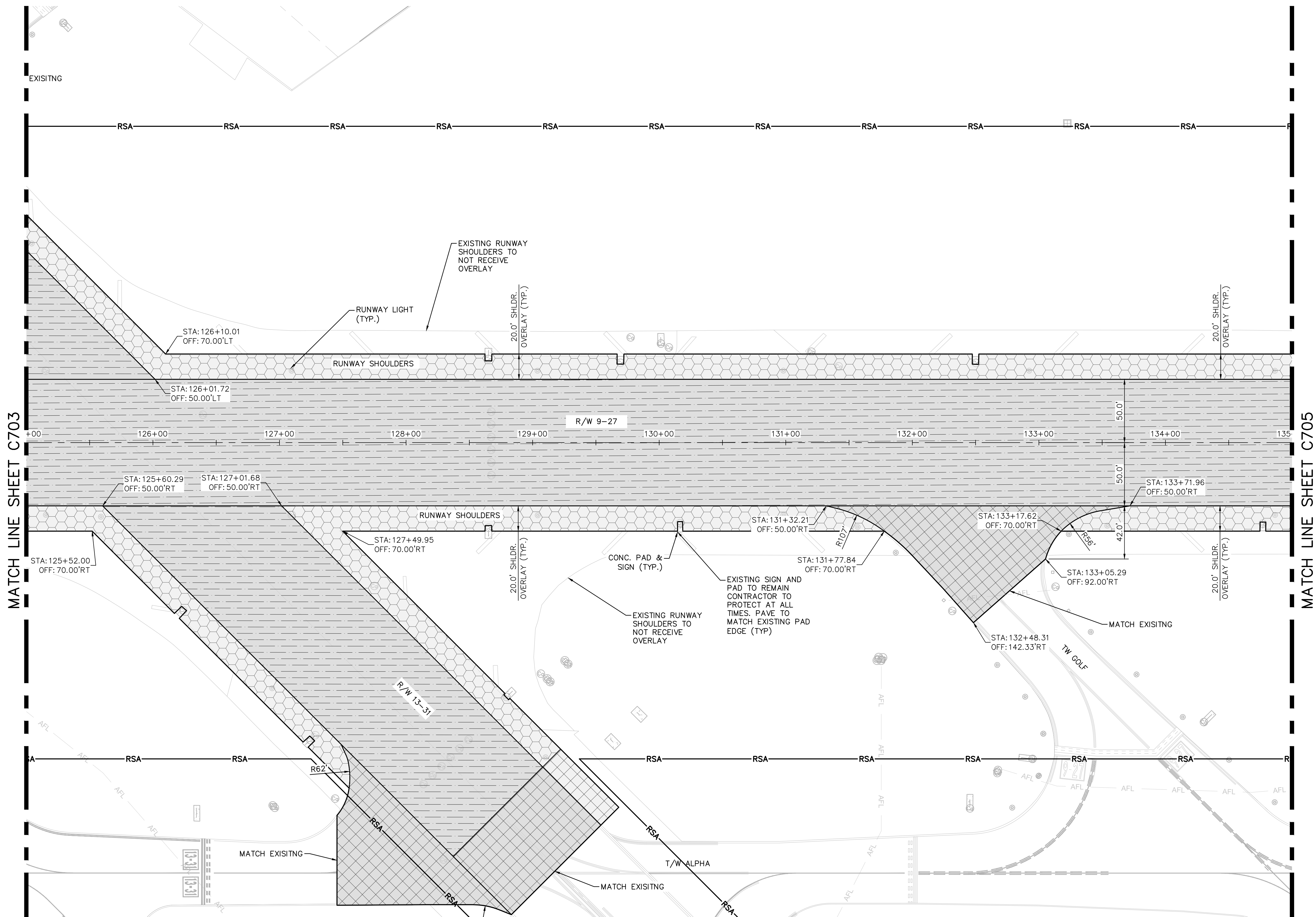
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

ENGINEER: THOMAS F. O'DONNELL Lic. No. 62476 DATE:	DRAWN BY: ALB DESIGNED BY: KAS CHECKED BY: TFO	DATE: 06/07/2024 SCALE: AS NOTED FIELD BOOK:
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TEL 561-840-0825
FAX:

K:\FLT\AVIATION\044693151_FYE_RW_9-27_REHAB\CADD\PLANSHEETS\12764-MULTI-GEOM.DWG



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- | | | | |
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| | CONSTRUCT RUNWAY SHOULDER OVERLAY TRANSITION | | |
| | APPLY RUNWAY BLAST PAD SEAL COAT | | |
| | SODDING | | |

LEGEND (LINE TYPE)

- | | | |
|--|-----|------------------------|
| | RSA | RUNWAY SAFETY AREA |
| | RPZ | RUNWAY PROTECTION ZONE |



BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT GEOMETRY PLAN

SHEET NO. OF
C704
TOTAL: 110
CAD FILE:
12764-MULTI-GEOM
DRAWING FILE NO.

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

NO.	DATE	BY	CHK'D	DESCRIPTION

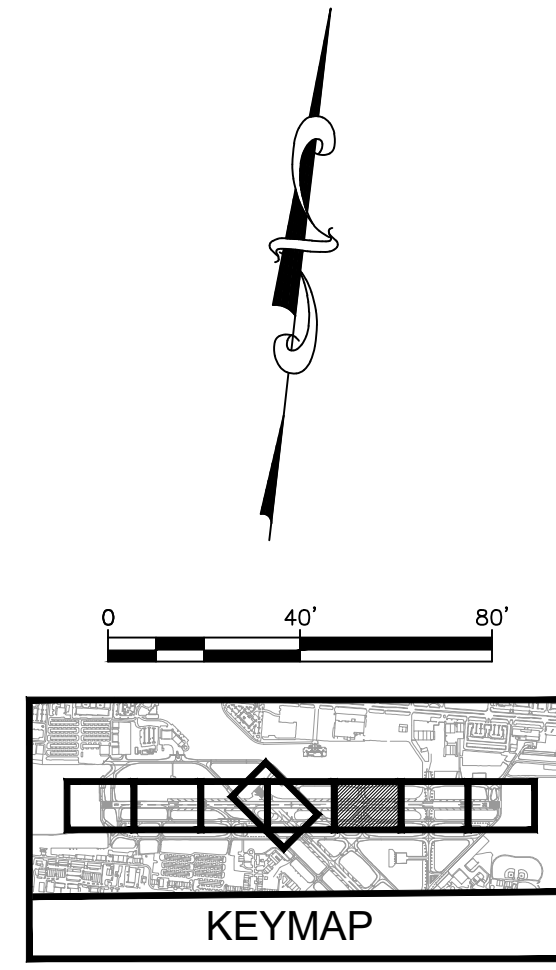
ENGINEER: THOMAS F. O'DONNELL Lic. No. 62476 DATE:	DRAWN BY: ALB DESIGNED BY: KAS CHECKED BY: TFO FIELD BOOK:	DATE: 06/07/2024 SCALE: AS NOTED
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TEL 561-840-0825
FAX

[illegible]

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT GEOMETRY PLAN

SHEET NO.	OF
C705	
TOTAL:	110
CAD FILE: 12764-MULTI-GEOM	
DRAWING FILE NO.	



———	RSA	———	RUNWAY SAFETY AREA
———	RPZ	———	RUNWAY PROTECTION ZONE

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BEFORE YOU DIG**

811

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DIAL 811**

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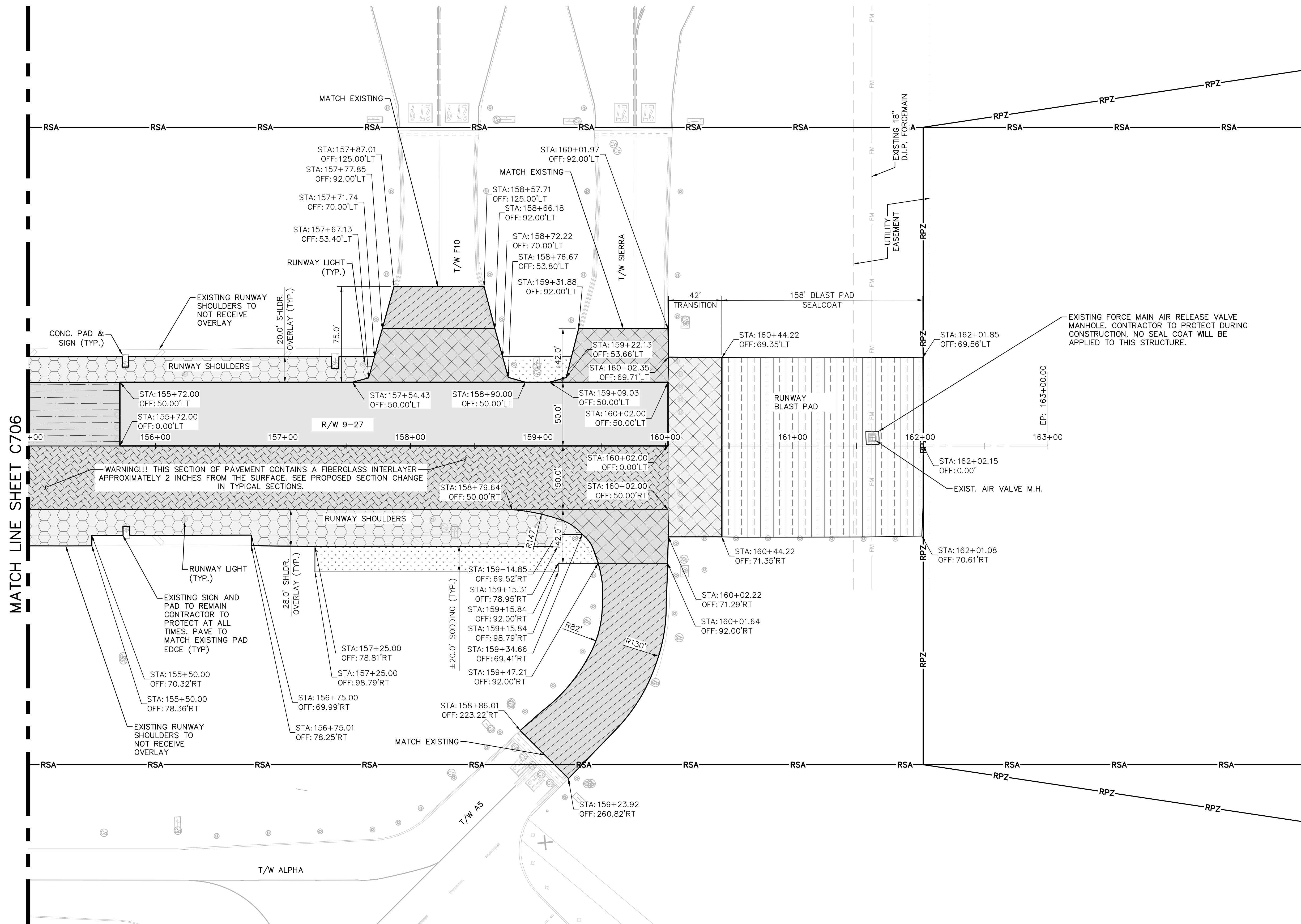
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

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FAA FACILITIES 954-356-7212**

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 PHONE: 954-535-9500 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM REGISTRY No. 350606
 2755 VISTA PARKWAY SUITE 1-9
 WEST PALM BEACH, FL 33411
 561-210-9224
 LICENSE NO. CA30805

BID SET

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LEGEND (WORK)

- | | |
|--|--|
| | CONSTRUCT RUNWAY OVERLAY IN SECTION WITHOUT EXISTING FIBERGLASS INTERLAYER |
| | CONSTRUCT RUNWAY OVERLAY IN SECTION WITH EXISTING FIBERGLASS INTERLAYER |
| | CONSTRUCT RUNWAY SHOULDER OVERLAY TRANSITION |
| | APPLY RUNWAY BLAST PAD SEAL COAT |
| | SODDING |
| | 250 TON, P-401 ASPHALT PAVEMENT, CONTROL STRIP |

LEGEND (LINE TYPE)

- | | |
|--|----------------------------|
| | RSA RUNWAY SAFETY AREA |
| | RPZ RUNWAY PROTECTION ZONE |

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WWW.KIMLEY-HORN.COM REGISTRY NO. 35056

QUANTUM
Electrical Engineering, Inc.
2751 VISTA PARKWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL: 561-922-1234
FAX: 561-922-1235
LICENSE NO. CA3885

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT GEOMETRY PLAN

SHEET NO. OF
C707
TOTAL: 110
CAD FILE:
12764-MULTI-GEOM
DRAWING FILE NO.

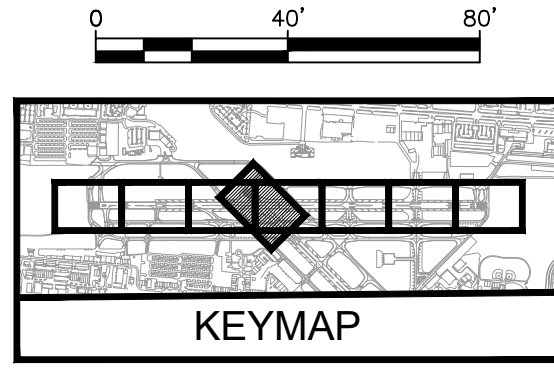
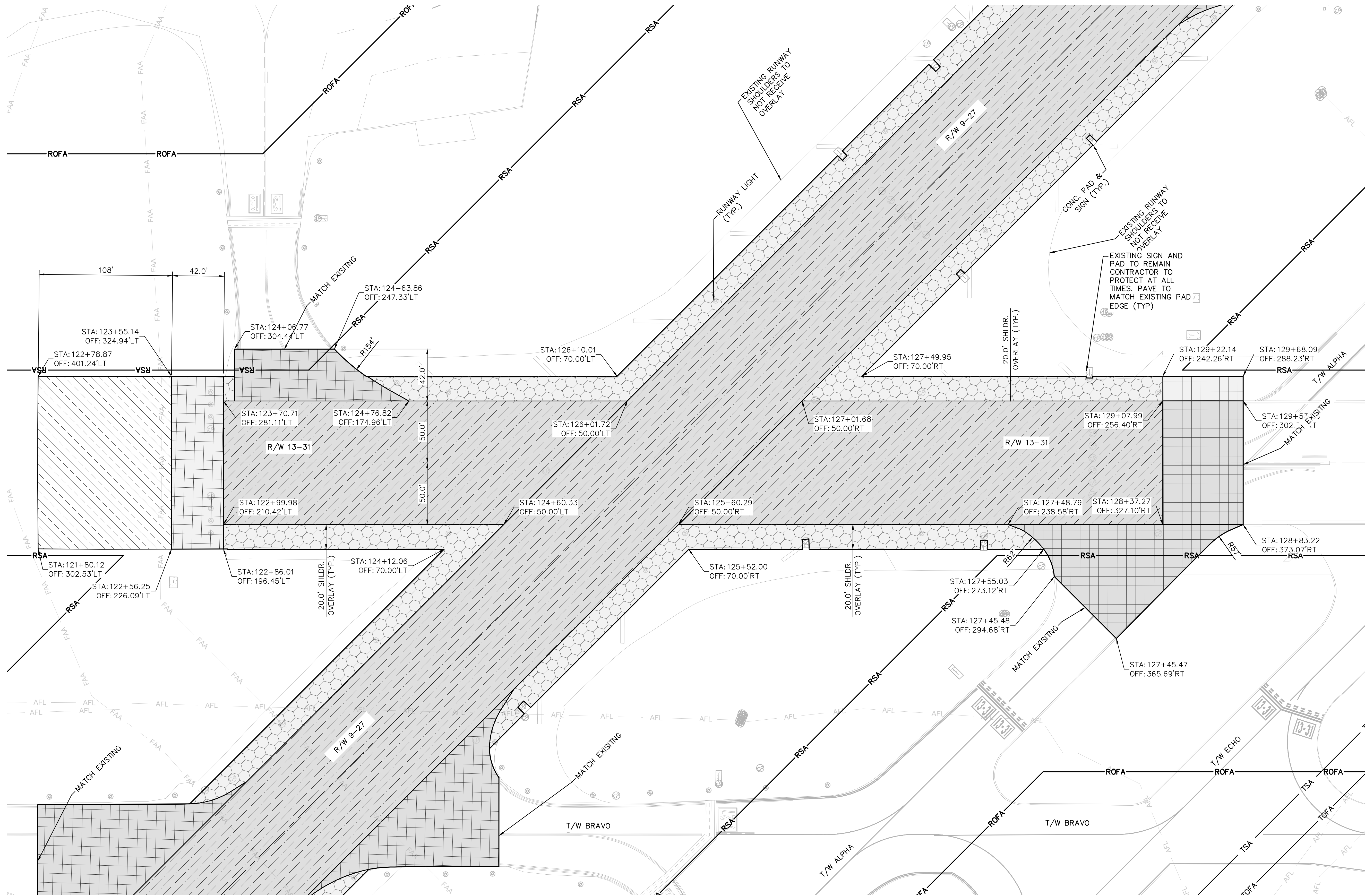
CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHK'D	REVISIONS	
				DESCRIPTION	

ENGINEER: THOMAS F. O'DONNELL
DATE: 06/07/2024
DESIGNED BY: KAS
CHECKED BY: TFO
FIELD BOOK: 33301

TEL: 561-840-0825
FAX: 561-840-0825

K:\FLT\AVIATION\044693151\FYE RW 9-27 REHAB\CADD\PLANSHEETS\12764-MULTI-GEOM.DWG



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LEGEND (WORK)

- | | | | |
|--|--|--|-------------------------------------|
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| | CONSTRUCT RUNWAY SHOULDER OVERLAY TRANSITION | | |
| | APPLY RUNWAY BLAST PAD SEAL COAT | | |
| | SODDING | | |

LEGEND (LINE TYPE)

- | | | |
|--|-----|------------------------|
| | RSA | RUNWAY SAFETY AREA |
| | RPZ | RUNWAY PROTECTION ZONE |

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WWW.KIMLEY-HORN.COM REGISTRY NO. 35056

QUANTUM
Electrical Engineering, Inc.
2751 VISTA PARKWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL 335-9224
LICENSE NO. CA38855

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

TEL 561-840-0825
FAX:

DRAWN BY: ALB
DATE: 06/07/2024

DESIGNED BY: KAS
SCALE: AS NOTED

CHECKED BY: TFO
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	REVISIONS		DESCRIPTION
	BY	CHK'D	

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT GEOMETRY PLAN

SHEET NO. C708 OF 110

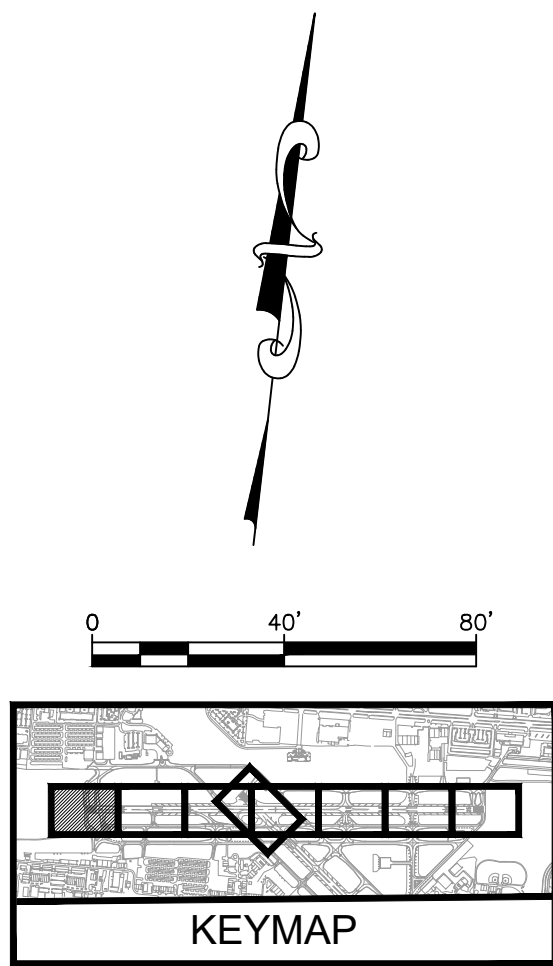
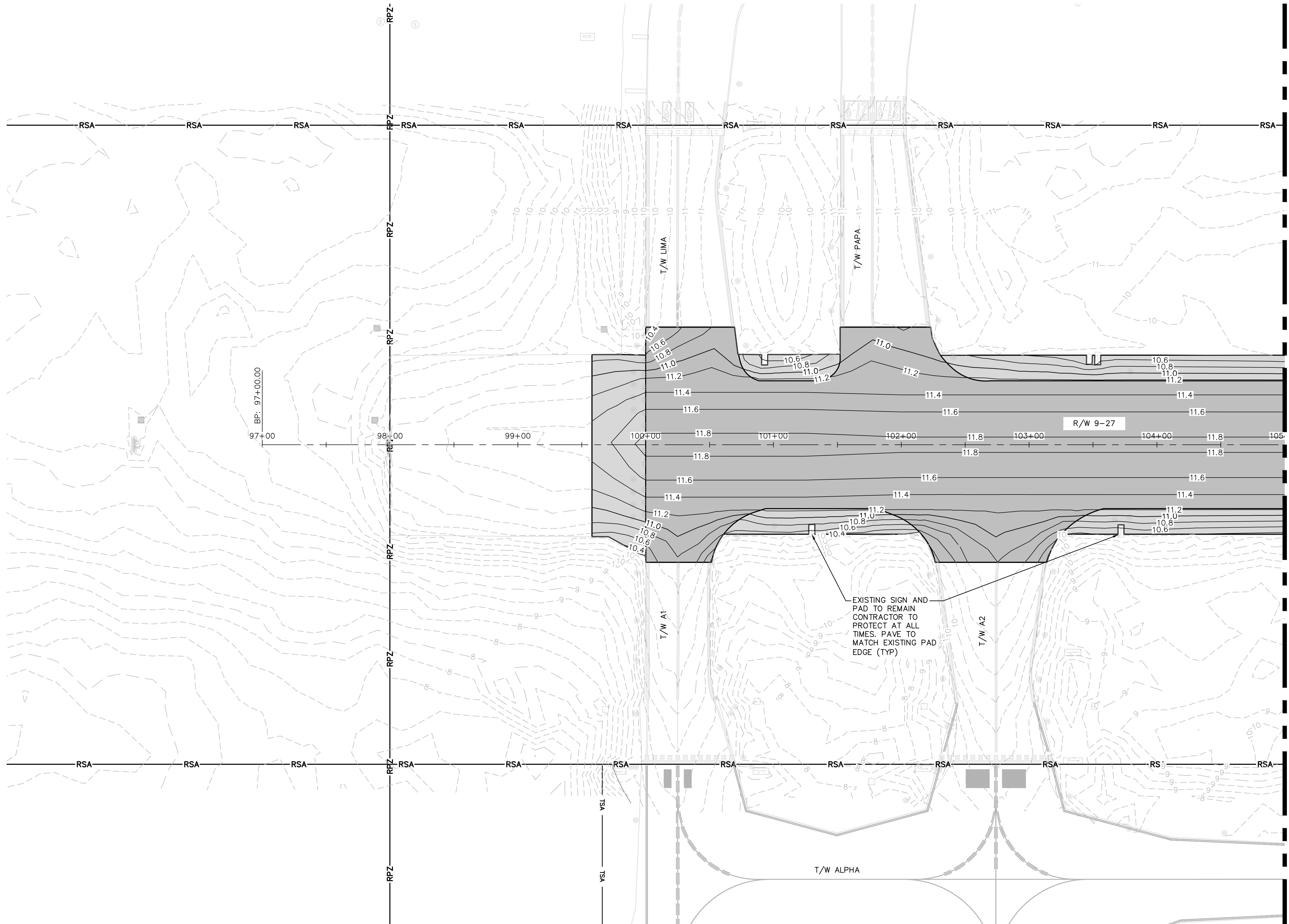
TOTAL: 110

CAD FILE: 12764-MULTI-GEOM

DRAWING FILE NO.

BID SET

K:\FLT\AVIATION\044693151_FXE_RW_9-27_REHAB\CADD\PLANSHEETS\12764-MULTI-GRAD.DWG



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- REFER TO THE ELECTRICAL PLAN SHEETS FOR THE SCOPE OF WORK FOR ANY LIGHTING, SIGNAGE, OR OTHER ELECTRICAL COMPONENTS.
- REFER TO SHEET E504 FOR SIGN GRADING AND FILL DETAIL.

LEGEND

- | | |
|--|-----------------------------|
| | B.M. |
| | ELECTRIC HAND HOLE |
| | TAXIWAY SIGN |
| | TAXIWAY EDGE LIGHT |
| | COMMUNICATION VAULT |
| | CONCRETE PAD |
| | EXISTING FIBER PULL BOX |
| | EXISTING FIBER COMM CABINET |
| | EXISTING FIBER OPTIC LINE |
| | EXISTING CONTOUR |
| | PROPOSED CONTOUR |

!!WARNING !!

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PHONE: 561-999-1100 FAX: 561-739-2400
WWW.KIMLEY-HORN.COM REGISTRY NO. 35056

QUANTUM
Electrical Engineering, Inc.
2751 VISTA FAIRWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL: 561-999-1100
LICENSE NO. CA38805

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

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

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

NO.	REVISIONS		DESCRIPTION
	BY	CHK'D	

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
GRADING PLAN

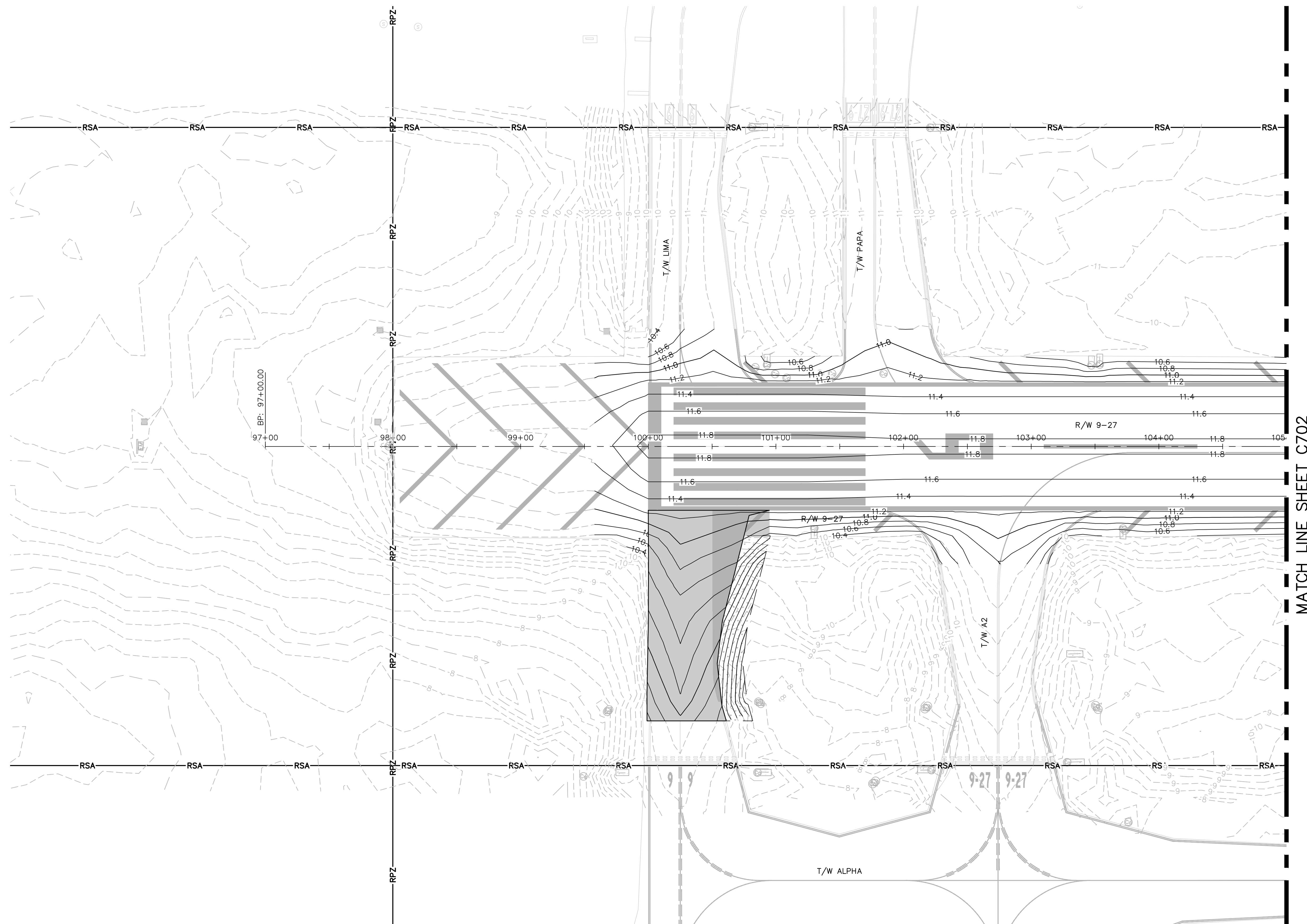
SHEET NO. OF
C801
TOTAL: 110
CAD FILE:
12764-MULTI-GRAD
DRAWING FILE NO.

BID SET

[illegible]

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
GRADING PLAN - ADD ALT 1















SHEET NO.	OF
C801A	
TOTAL:	110
CAD FILE: 12764-MULTI-GRAD-ALT1	
DRAWING FILE NO.	



NOTES

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3. REFER TO SHEET C601 TO C608 FOR DEMOLITION REQUIREMENTS
4. SEE "TYPICAL SECTIONS" SHEET NOS. XXX & XXX
5. CONTRACTOR WILL PROTECT ALL TAXIWAY EDGE LIGHTS DURING CONSTRUCTION.
6. IN CASE WHERE GEOMETRY IS NOT DELINEATED BY STATION/OFFSET, IT SHALL MATCH THE EXISTING LAYOUT OF THE MILLED EDGE OF PAVEMENT.
7. REFER TO THE ELECTRICAL PLAN SHEETS FOR TAXIWAY EDGE LIGHTS AND SIGNAGE TO BE RELOCATED.
8. REFER TO SHEET E16 FOR SIGNS FILL AND GRADING DETAIL

LEGEND

- | | |
|---|-----------------------------|
|  | BENCHMARK |
|    | ELECTRIC HAND HOLE |
|  | TAXIWAY SIGN |
|  | TAXIWAY EDGE LIGHT |
|  | COMMUNICATION VAULT |
|  | CONCRETE PAD |
|   | EXISTING FIBER PULL BOX |
|  | EXISTING FIBER COMM CABINET |
|  | EXISTING FIBER OPTIC LINE |
|  | EXISTING CONTOUR |
|  | PROPOSED CONTOUR |

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!!WARNING !!

THE ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
TO CONVERT THE ELEVATIONS HEREON TO NATIONAL GEODETIC VERTICAL DATUM (NGVD29) ADD 1.585 FEET.

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BEFORE YOU DIG

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DIAL 811

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Call before you dig

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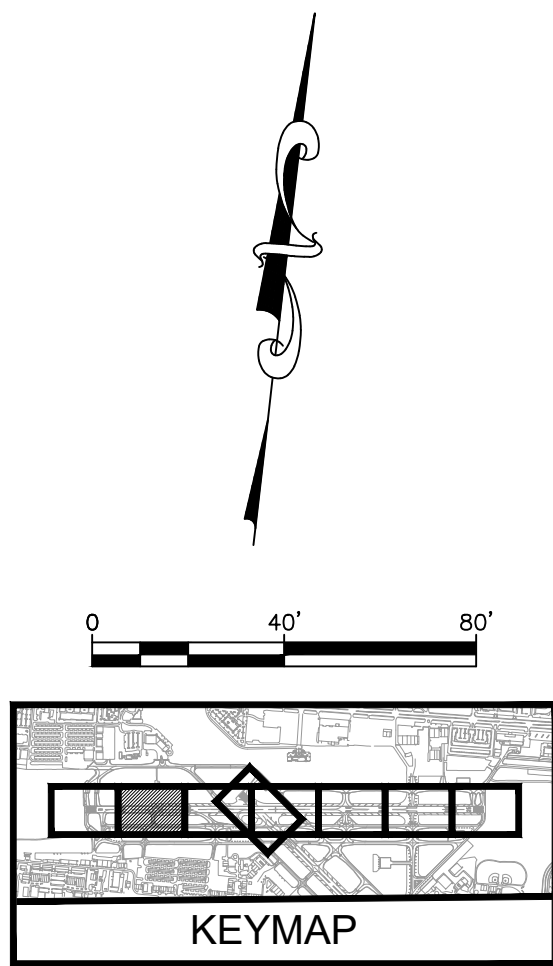
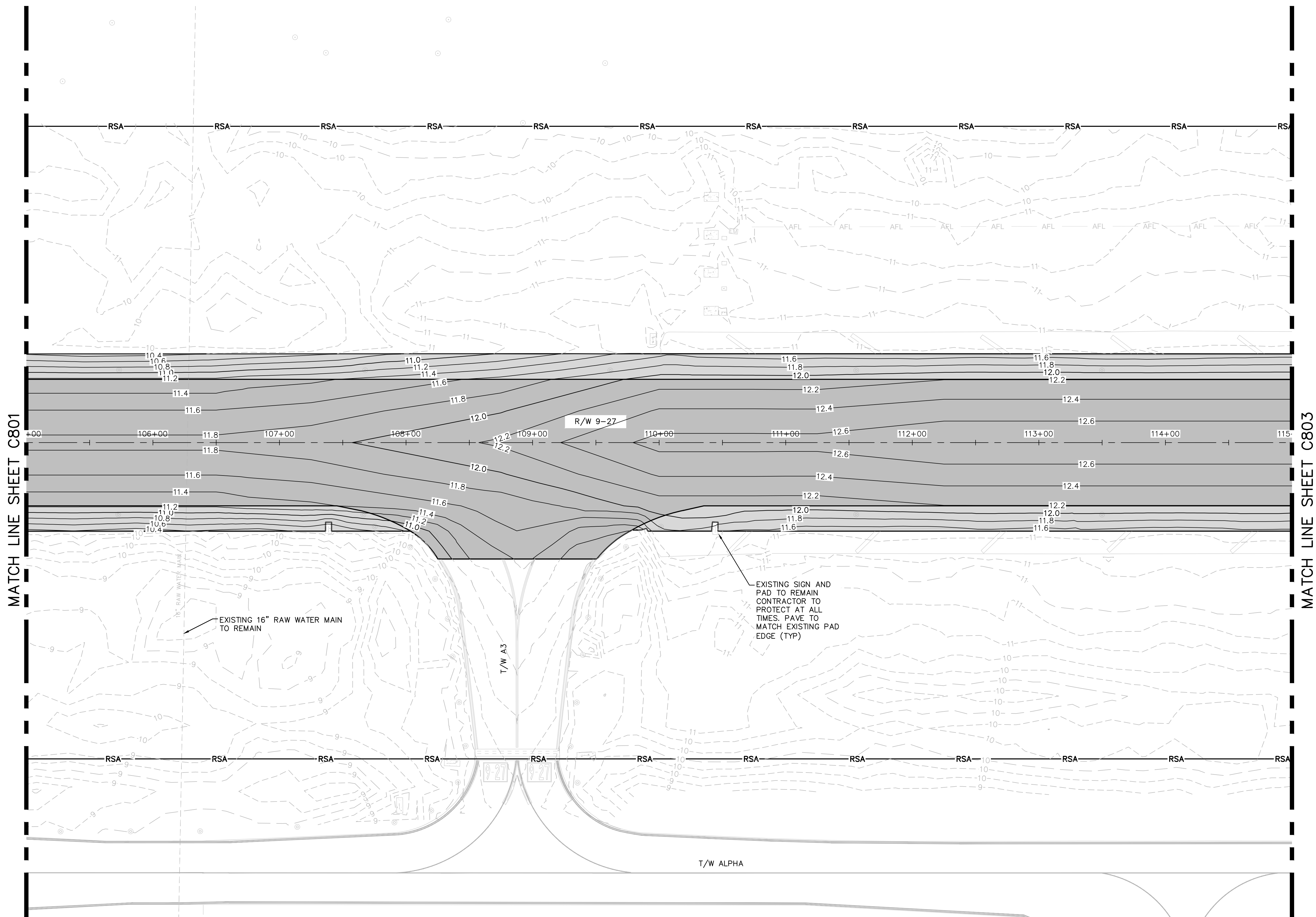
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QUANTUM
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WEST PALM BEACH, FL 33411
561-210-9224
LICENSE NO. CA30805

BID SET

K:\FLT\AVIATION\044693151\FXE RW 9-27 REHAB\CADD\PLANSHEETS\12764--MULTI--GRAD.DWG



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- REFER TO SHEET E504 FOR SIGN GRADING AND FILL DETAIL.

LEGEND

- | | |
|--|-----------------------------|
| | B.M. |
| | ELECTRIC HAND HOLE |
| | TAXIWAY SIGN |
| | TAXIWAY EDGE LIGHT |
| | COMMUNICATION VAULT |
| | CONCRETE PAD |
| | EXISTING FIBER PULL BOX |
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IT'S THE LAW!
DIAL 811



SUNSHINE STATE ONE CALL OF FLORIDA, INC.

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



BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
GRADING PLAN

SHEET NO. OF
C802
TOTAL: 110
CAD FILE:
12764--MULTI--GRAD
DRAWING FILE NO.

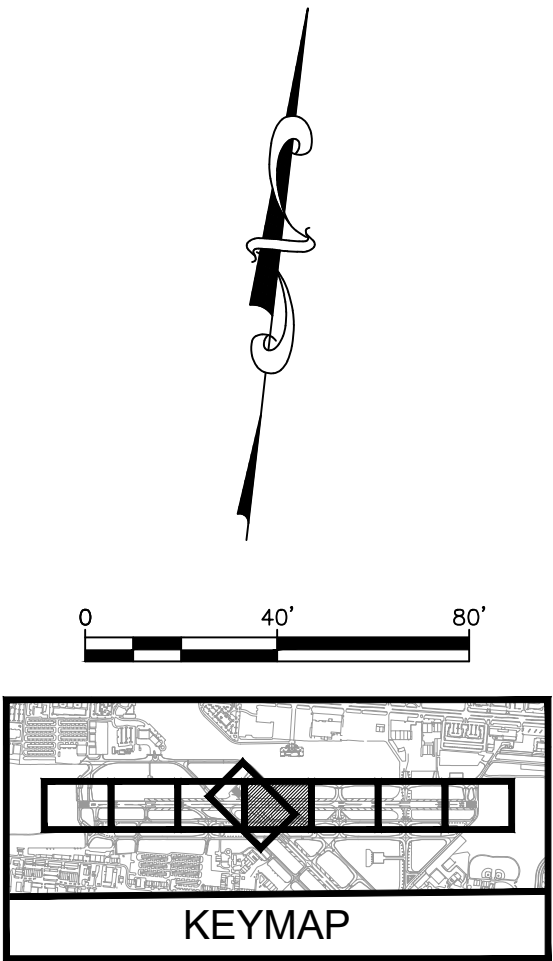
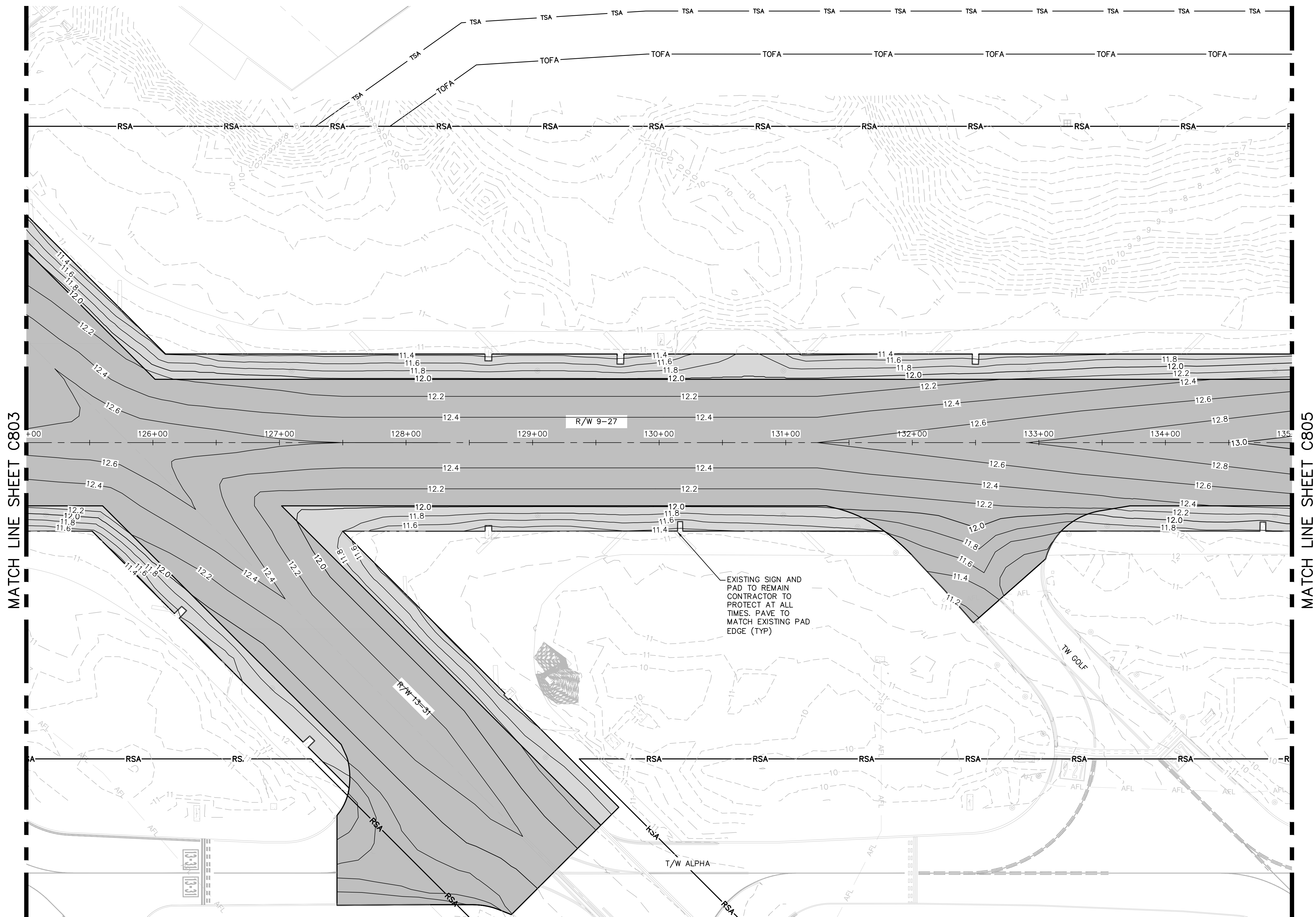
ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62476
DATE:

DRAWN BY: ALB
DATE: 06/07/2024
DESIGNED BY: SCALE:
KAS AS NOTED
CHECKED BY: TFO
FIELD BOOK:

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

NO.	REVISIONS		DESCRIPTION
	BY	CHK'D	

K:\FLT\AVIATION\044693151\FXE RW 9-27 REHAB\CADD\PLANSHEETS\12764-MULTI-GRAD.DWG



NOTES

- UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO OBTAIN UNDERGROUND UTILITY LOCATION AS REQUIRED BY LAW. SEE GENERAL NOTES SHEET C01. ALL FACILITIES ARE TO REMAIN EXCEPT WHERE OTHERWISE SHOWN. TAKE CARE DURING CONSTRUCTION TO AVOID DAMAGE TO EXISTING ABOVE GROUND AND UNDERGROUND FACILITIES.
- CONTRACTOR SHALL GRADE AROUND ALL EXISTING STRUCTURES TO REMAIN, INCLUDING BUT NOT LIMITED TO TAXIWAY AND RUNWAY SIGNAGE.
- REFER TO SHEETS C401 - C404 FOR "TYPICAL SECTIONS"
- REFER TO SHEETS C601 - C608 FOR DEMOLITION REQUIREMENTS
- REFER TO SHEETS C701 - C707 FOR PAVING REQUIREMENTS
- CONTRACTOR WILL PROTECT ALL TAXIWAY EDGE LIGHTS DURING CONSTRUCTION
- IN CASE WHERE GEOMETRY IS NOT DELINEATED BY STATION/OFFSET, IT SHALL MATCH THE EXISTING LAYOUT OF THE MILLED EDGE OF PAVEMENT.
- REFER TO THE ELECTRICAL PLAN SHEETS FOR THE SCOPE OF WORK FOR ANY LIGHTING, SIGNAGE, OR OTHER ELECTRICAL COMPONENTS.
- REFER TO SHEET E504 FOR SIGN GRADING AND FILL DETAIL.

LEGEND

- | | |
|--|-----------------------------|
| | B.M. |
| | ELECTRIC HAND HOLE |
| | TAXIWAY SIGN |
| | TAXIWAY EDGE LIGHT |
| | COMMUNICATION VAULT |
| | CONCRETE PAD |
| | EXISTING FIBER PULL BOX |
| | EXISTING FIBER COMM CABINET |
| | EXISTING FIBER OPTIC LINE |
| | EXISTING CONTOUR |
| | PROPOSED CONTOUR |

!!WARNING !!

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WWW.KIMLEY-HORN.COM REGISTRY NO. 35056

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Electrical Engineering, Inc.
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WEST PALM BEACH, FL 33411
TEL: 561-832-1122
LICENSE NO. CA8805

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

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

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE



100 North Andrews Avenue, Fort Lauderdale, Florida 33301

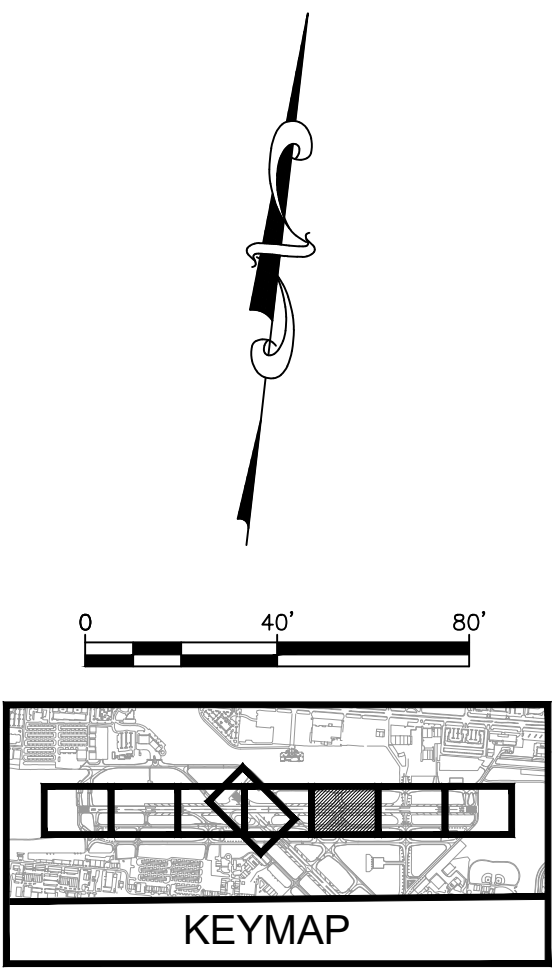
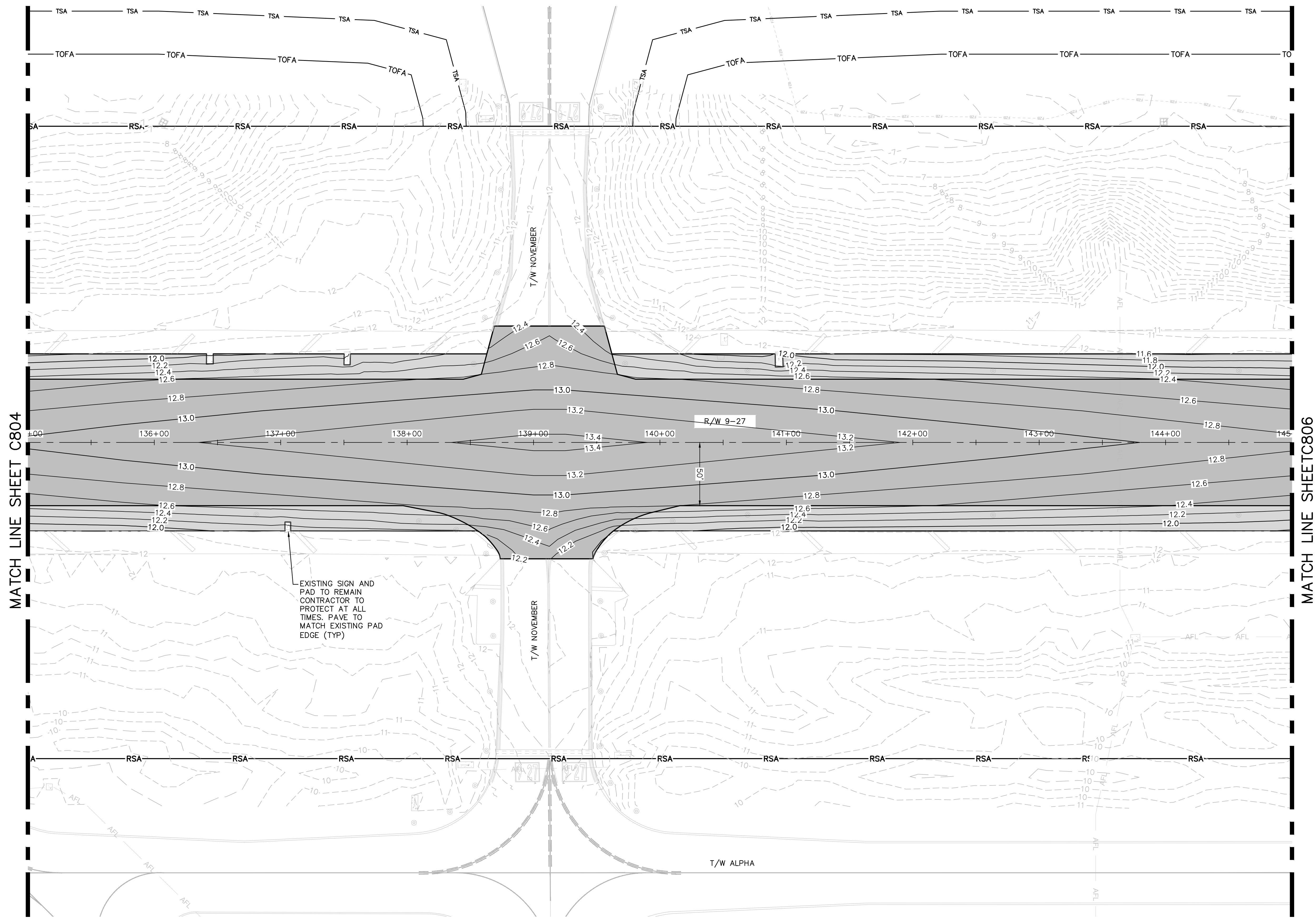
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
GRADING PLAN

SHEET NO.	OF
C804	
TOTAL:	110
CAD FILE:	12764-MULTI-GRAD
DRAWING FILE NO.	

BID SET

K:\FLT\AVIATION\044693151\FXE RW 9-27 REHAB\CADD\PLANSHEETS\12764-MULTI-GRAD.DWG



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LEGEND

- | | |
|--|-----------------------------|
| | B.M. |
| | ELECTRIC HAND HOLE |
| | TAXIWAY SIGN |
| | TAXIWAY EDGE LIGHT |
| | COMMUNICATION VAULT |
| | CONCRETE PAD |
| | EXISTING FIBER PULL BOX |
| | EXISTING FIBER COMM CABINET |
| | EXISTING FIBER OPTIC LINE |
| | EXISTING CONTOUR |
| | PROPOSED CONTOUR |

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WEST PALM BEACH, FL 33411
TEL: 561-924-1100 FAX: 561-924-2200
WWW.QUANTUM-EE.COM REGISTRY NO. 35056

ENGINEER:
THOMAS F. O'DONNELL
PROJ. NO.: 12764
DATE:

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

TEL: 561-840-0825
FAX:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
GRADING PLAN

SHEET NO. C805 OF 110

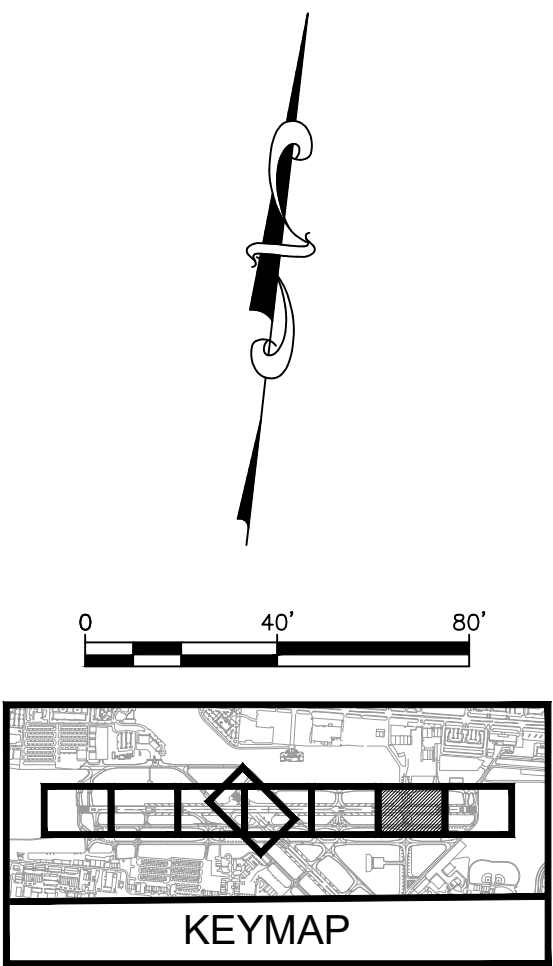
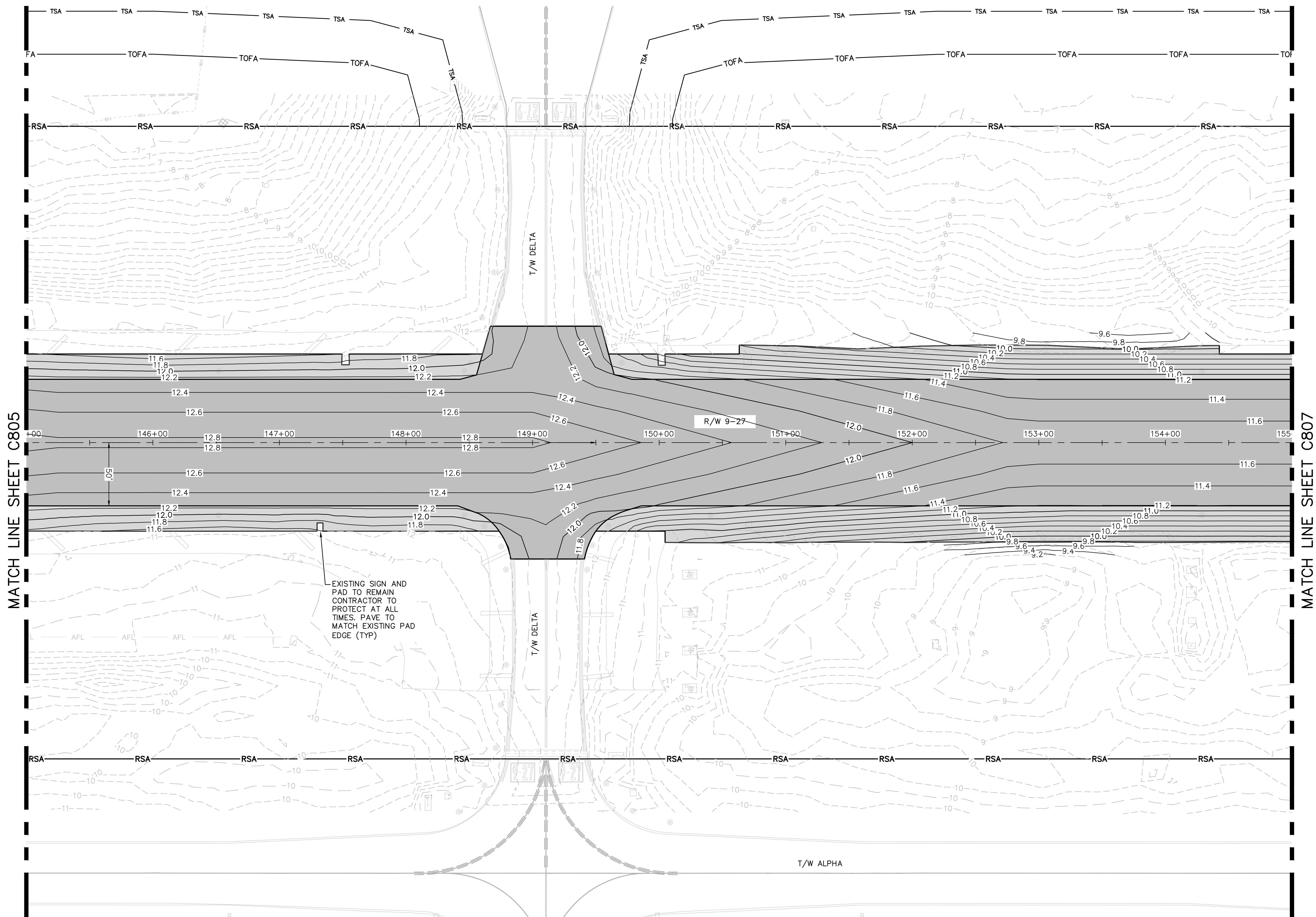
TOTAL: 110

CAD FILE: 12764-MULTI-GRAD

DRAWING FILE NO.

BID SET

K:\FLAVIATION\044693151\FXE RW 9-27 REHAB\CADD\PLANSHEETS\12764--MULTI--GRAD.DWG



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LEGEND

- | | |
|--|-----------------------------|
| | B.M. |
| | ELECTRIC HAND HOLE |
| | TAXIWAY SIGN |
| | TAXIWAY EDGE LIGHT |
| | COMMUNICATION VAULT |
| | CONCRETE PAD |
| | EXISTING FIBER PULL BOX |
| | EXISTING FIBER COMM CABINET |
| | EXISTING FIBER OPTIC LINE |
| | EXISTING CONTOUR |
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WEST PALM BEACH, FL 33411
TEL: 561-991-0100
LICENSE NO. CA38805

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
GRADING PLAN

SHEET NO. OF

C806

TOTAL: 110

CAD FILE:

12764--MULTI--GRAD

DRAWING FILE NO.

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

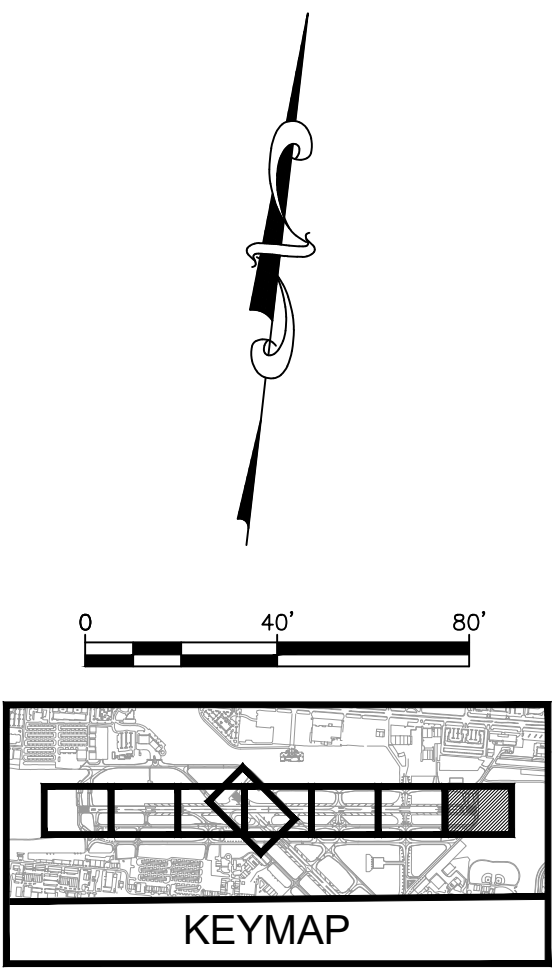
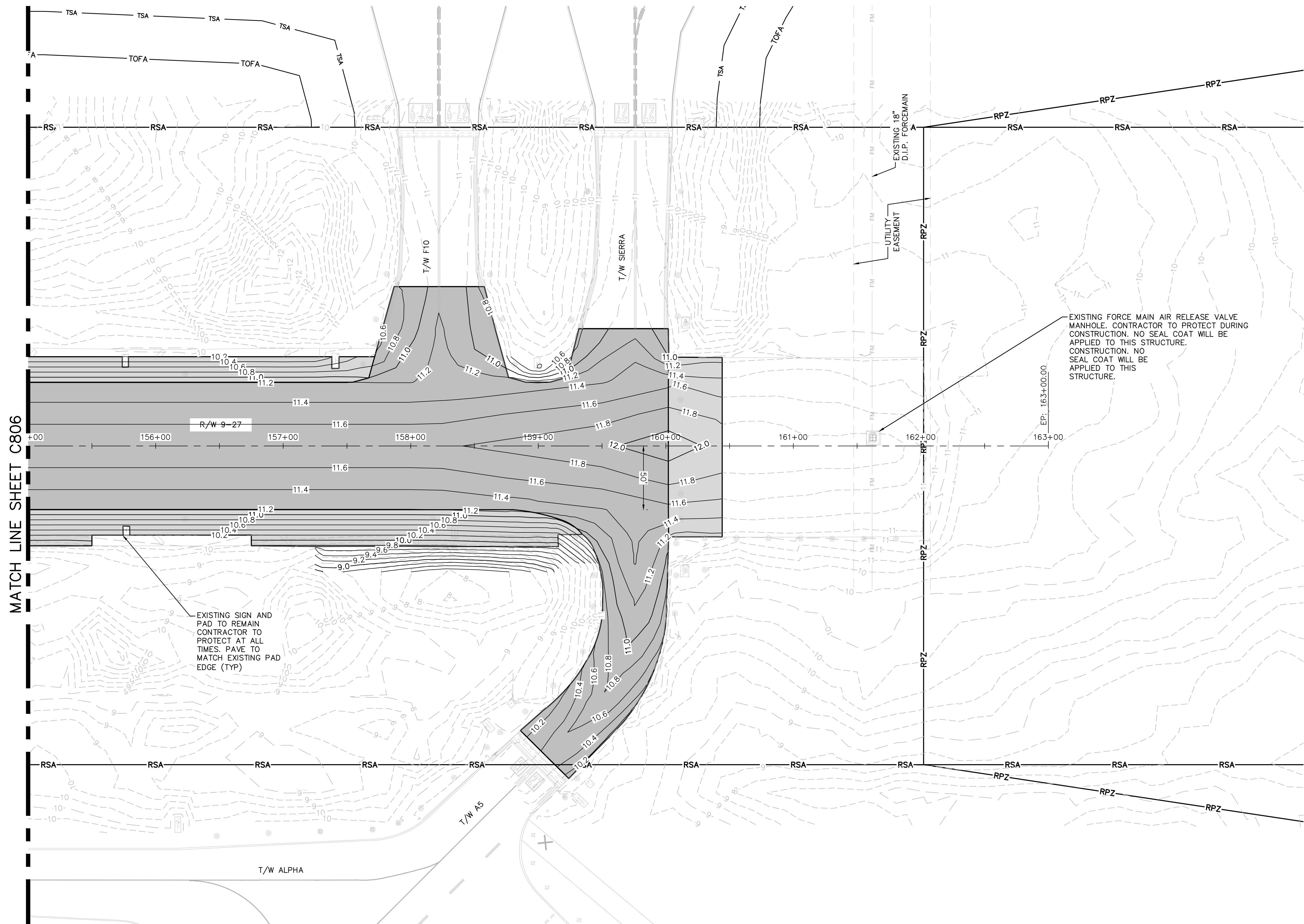
DRAWN BY:	DATE:	DESIGNED BY:	SCALE:	AS NOTED
	ALB			
CHECKED BY:	TFO	KAS	TFO	FIELD BOOK:

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

TEL: 561-840-0825
FAX:

BID SET

K:\FLT\AVIATION\044693151\FXE RW 9-27 REHAB\CADD\PLANSHEETS\12764-MULTI-GRAD.DWG



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LEGEND

- | | |
|--|-----------------------------|
| | B.M. |
| | ELECTRIC HAND HOLE |
| | TAXIWAY SIGN |
| | TAXIWAY EDGE LIGHT |
| | COMMUNICATION VAULT |
| | CONCRETE PAD |
| | EXISTING FIBER PULL BOX |
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QUANTUM
Electrical Engineering, Inc.
2751 VISTA FAIRWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL: 561-935-1100
LICENSE NO. CA38805

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

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

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

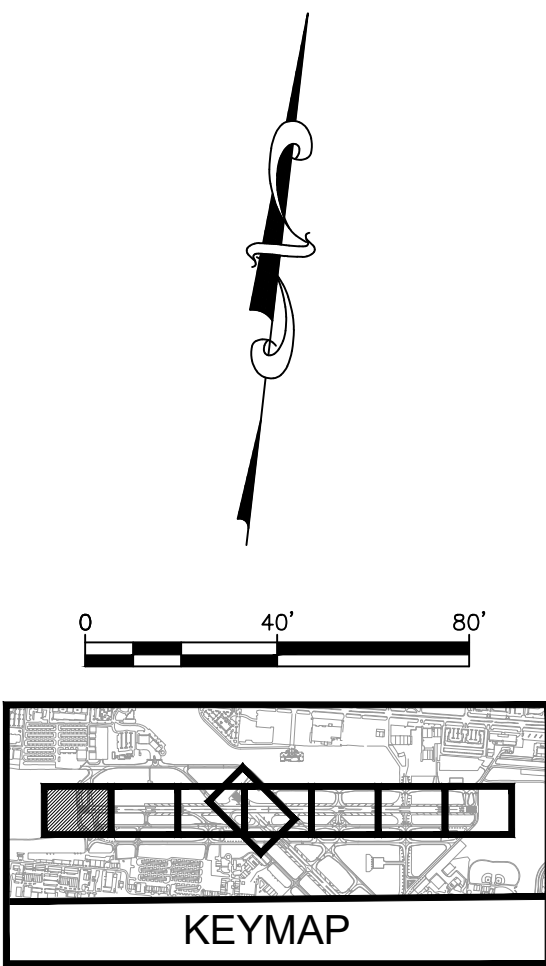
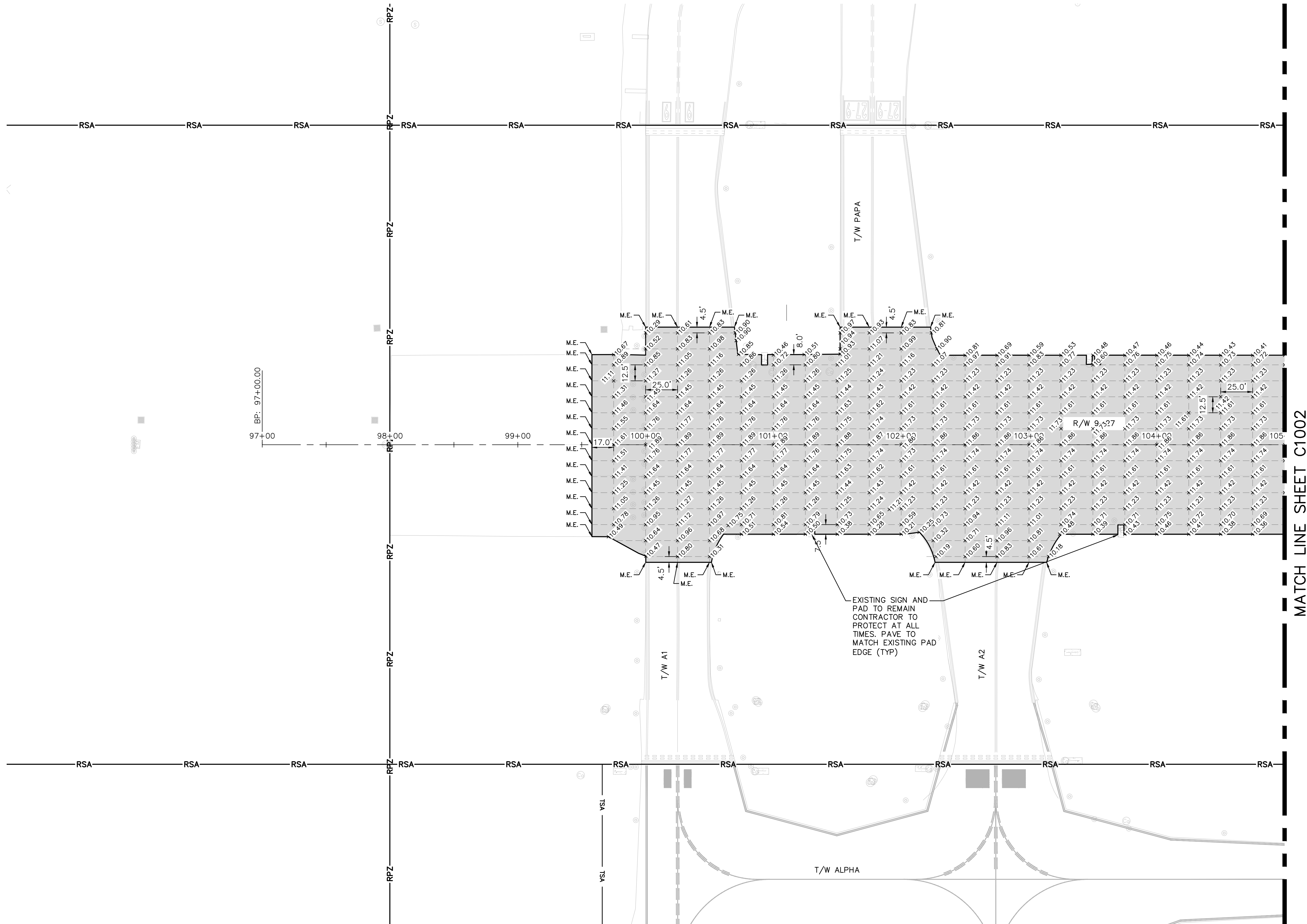
NO.	REVISIONS		DESCRIPTION
	BY	CHK'D	

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
GRADING PLAN

SHEET NO. OF
C807
TOTAL: 110
CAD FILE:
12764-MULTI-GRAD
DRAWING FILE NO.

BID SET

K:\FTL AVIATION\044693151_FXE RW 9-27 REHAB\CADD\PLANSHEETS\12764--MULTI--ELEV.DWG



NOTES

1. REFER TO SHEETS C701 TO C708 FOR GEOMETRY PLANS.
2. REFER TO SHEETS C801 TO C808 FOR GRADING PLANS.
3. REFER TO SHEET C601 TO C608 FOR DEMOLITION REQUIREMENTS
4. SEE "TYPICAL SECTIONS" SHEET C401 TO C403
5. CONTRACTOR SHALL GRADE AROUND ALL EXISTING STRUCTURES TO REMAIN, INCLUDING BUT NOT LIMITED TO TAXIWAY AND RUNWAY SIGNAGE

LEGEND

- | | |
|--|---|
| | CONSTRUCT NEW PAVEMENT SECTION TO GRADE |
| | SPOT ELEVATION |
| | RUNWAY SAFETY AREA |
| | RUNWAY PROTECTION ZONE |

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WWW.KIMLEY-HORN.COM REGISTRY NO. 35056

QUANTUM

Electrical Engineering, Inc.
2765 VISTA FAIRWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL: 561-832-1234
LICENSE NO. CA38805

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
SPOT ELEVATION PLAN

SHEET NO. OF

C1001

TOTAL: 110

CAD FILE:

12764--MULTI--ELEV

DRAWING FILE NO.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE



100 North Andrews Avenue, Fort Lauderdale, Florida 33301

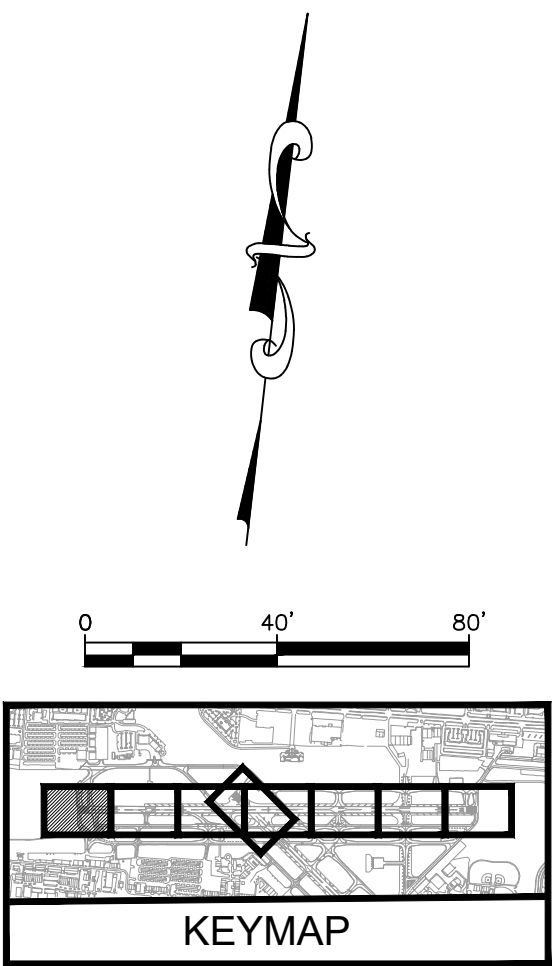
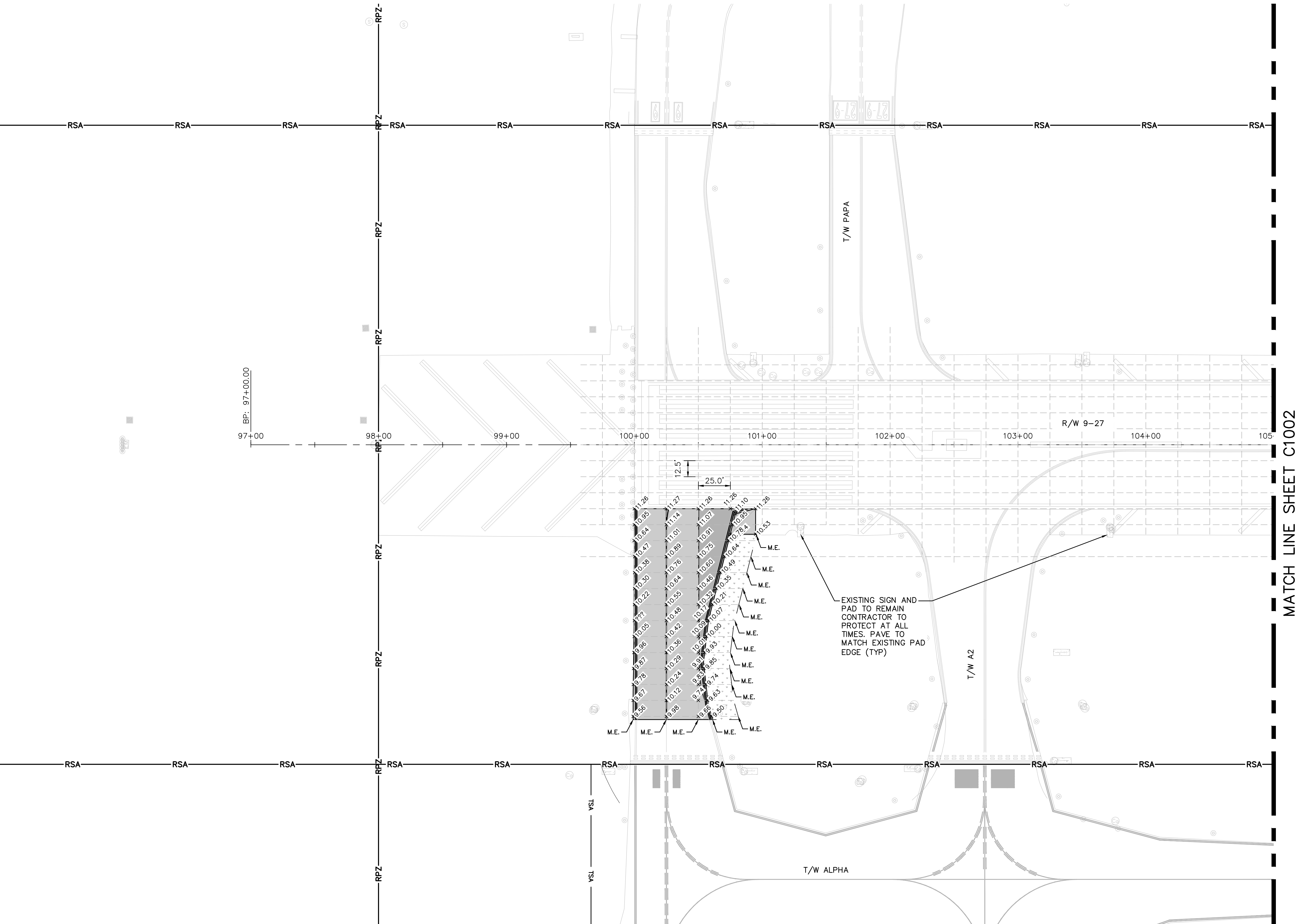
ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62476
DATE:
DRAWN BY:
ALB
DESIGNED BY:
KAS
CHECKED BY:
TFO
FIELD BOOK:

DATE: 06/07/2024
SCALE: AS NOTED
FIELD BOOK:

TEL: 561-840-0825
FAX:

BID SET

K:\FTL\AVIATION\044693151_FXE_RW_9-27_REHAB\CADD\PLANSHEETS\12764-MULTI-ELEV-ALT1.DWG



NOTES

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LEGEND

- | | |
|--|---|
| | CONSTRUCT NEW PAVEMENT SECTION TO GRADE |
| | SPOT ELEVATION |
| | RSA RUNWAY SAFETY AREA |
| | RPZ RUNWAY PROTECTION ZONE |

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PHONE: 561-930-0100 FAX: 561-739-2241
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QUANTUM

Electrical Engineering, Inc.
2755 VISTA PARKWAY SUITE 114
WEST PALM BEACH, FL 33411
TEL: 335-9324
LICENSE NO. CA38805

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
SPOT ELEVATION PLAN - ADD ALT 1

SHEET NO. OF

C1001A

TOTAL: 110

CAD FILE:

12764-MULTI-ELEV-ALT1

DRAWING FILE NO.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

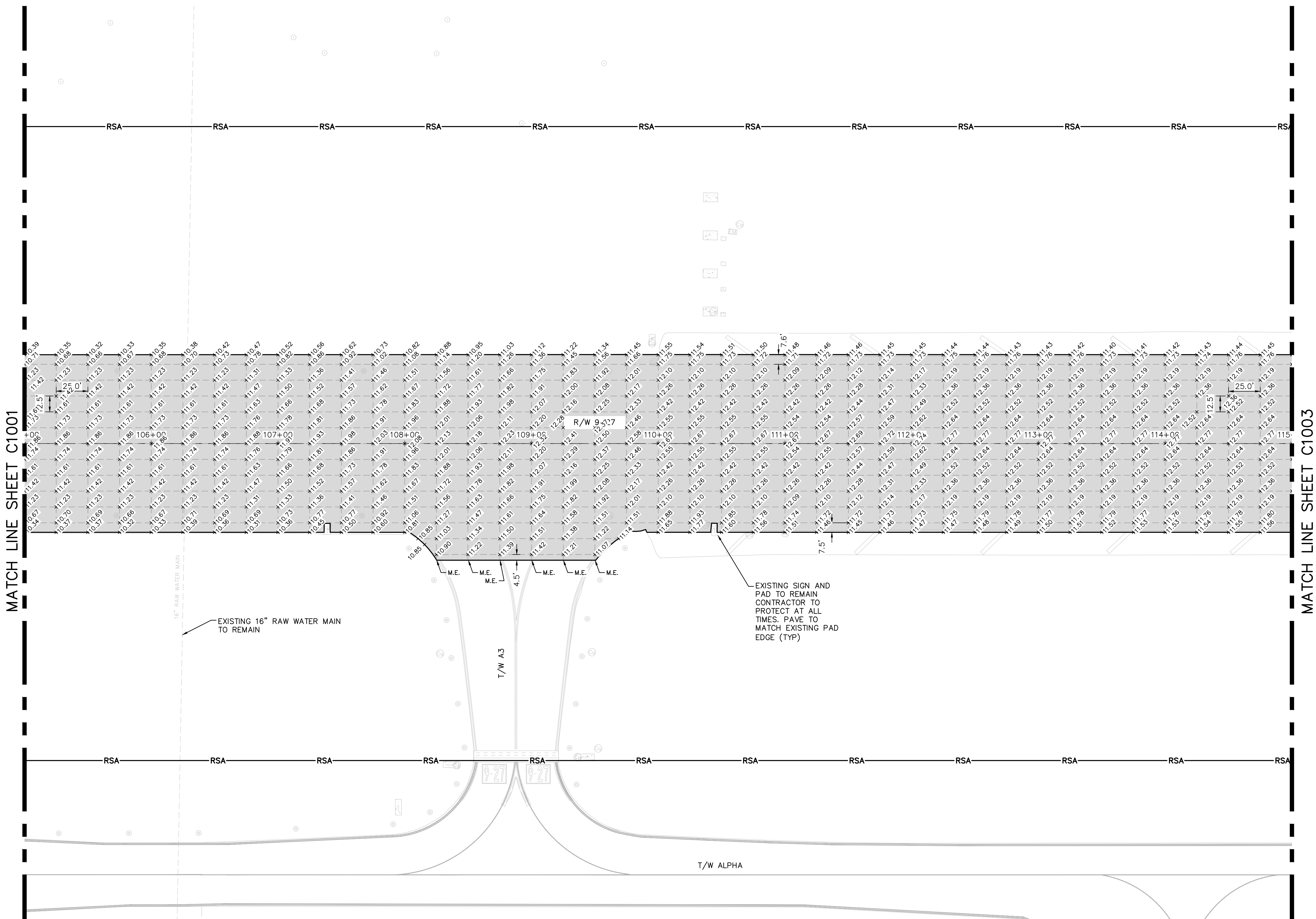


100 North Andrews Avenue, Fort Lauderdale, Florida 33301

ENGINEER:	DATE:	DESIGNED BY:	CHECKED BY:	FIELD BOOK:
THOMAS F. O'DONNELL	06/07/2024	ALB	KAS	
REG. NO. 62476		SCALE:	TFO	
DATE:		AS NOTED		

TEL: 561-840-0825
FAX:

BID SET



NOTES

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LEGEND

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- SPOT ELEVATION
- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE

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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
SPOT ELEVATION PLAN

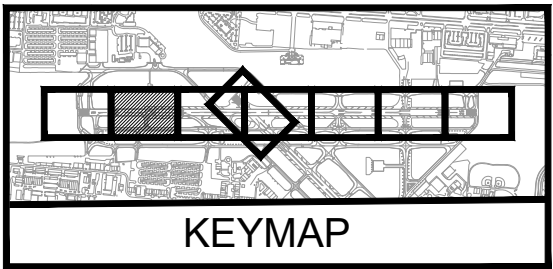
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C1002
TOTAL: 110
CAD FILE:
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DRAWING FILE NO.

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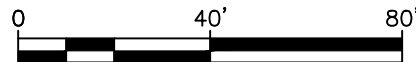
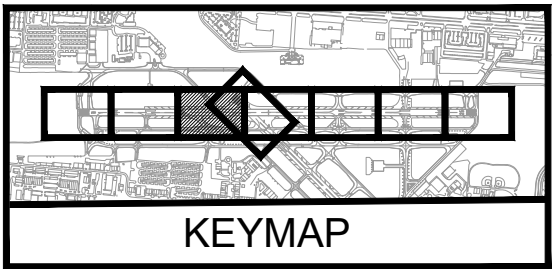
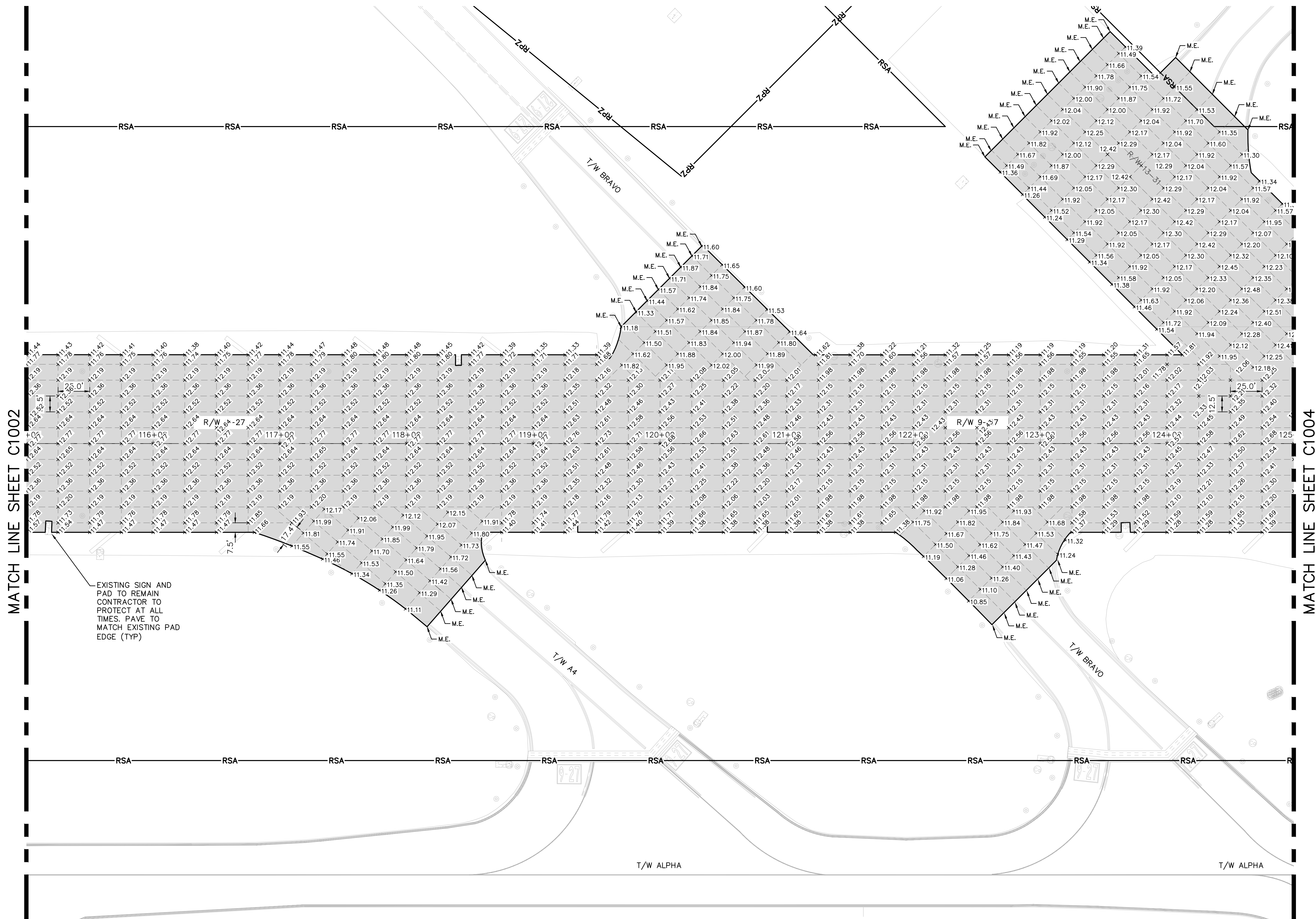
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DESIGNED BY: KAS		SCALE: AS NOTED	
CHECKED BY: TFO		FIELD BOOK:	

ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62478
DATE:
TEL: 561-840-0825
FAX:



0 40' 80'





NOTES

1. REFER TO SHEETS C701 TO C708 FOR GEOMETRY PLANS.
2. REFER TO SHEETS C801 TO C808 FOR GRADING PLANS.
3. REFER TO SHEET C601 TO C608 FOR DEMOLITION REQUIREMENTS
4. SEE "TYPICAL SECTIONS" SHEET C401 TO C403
5. CONTRACTOR SHALL GRADE AROUND ALL EXISTING STRUCTURES TO REMAIN, INCLUDING BUT NOT LIMITED TO TAXIWAY AND RUNWAY SIGNAGE

LEGEND

- | | |
|--|---|
| | CONSTRUCT NEW PAVEMENT SECTION TO GRADE |
| | SPOT ELEVATION |
| | RSA RUNWAY SAFETY AREA |
| | RPZ RUNWAY PROTECTION ZONE |

!!WARNING !!

THERE ARE A NUMBER OF AIRPORT UTILITIES, PUBLIC UTILITIES, FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRANSVERSING THE AIRFIELD PROPERTY AREAS. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATIONS 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 (HORIZONTALLY AND VERTICALLY), FLAGGED, AND IDENTIFIED PRIOR TO START UP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR THE DAMAGES, CAUSED BY HIS ACTIONS, WITH NO ADDITIONAL COMPENSATION.

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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
SPOT ELEVATION PLAN

SHEET NO. OF

C1003

TOTAL: 110

CAD FILE:

12764--MULTI--ELEV

DRAWING FILE NO.

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



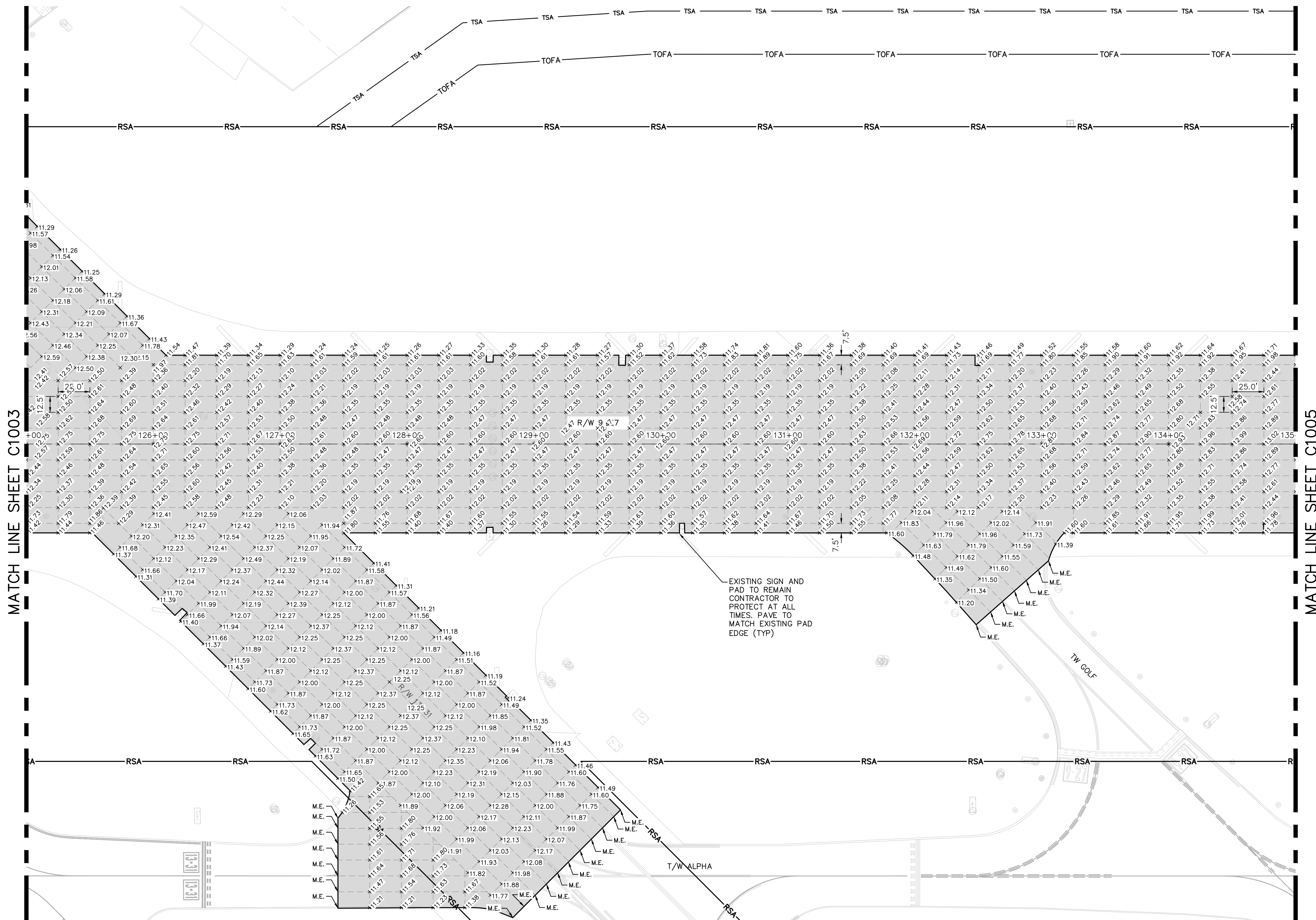
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	DATE	BY	

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	ALB	06/07/2024
DESIGNED BY:	SCALE:	
	KAS	AS NOTED
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	FIELD BOOK:	

ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 66476
DATE:

TEL 561-840-0825
FAX

K:\FTL\AVIATION\044693151\FXE RW 9-27 REHAB\CADD\PLANSHEETS\12764-MULTI-ELEV.DWG



NOTES

1. REFER TO SHEETS C701 TO C708 FOR GEOMETRY PLANS.
2. REFER TO SHEETS C801 TO C808 FOR GRADING PLANS.
3. REFER TO SHEET C601 TO C608 FOR DEMOLITION REQUIREMENTS
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LEGEND

- | | |
|--|---|
| | CONSTRUCT NEW PAVEMENT SECTION TO GRADE |
| | SPOT ELEVATION |
| | RSA RUNWAY SAFETY AREA |
| | RPZ RUNWAY PROTECTION ZONE |

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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
SPOT ELEVATION PLAN

SHEET NO. OF

C1004 110

TOTAL: 110

CAD FILE: 12764-MULTI-ELEV

DRAWING FILE NO.

CAM #24-0854
Exhibit 1B
Page 254 of 417

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

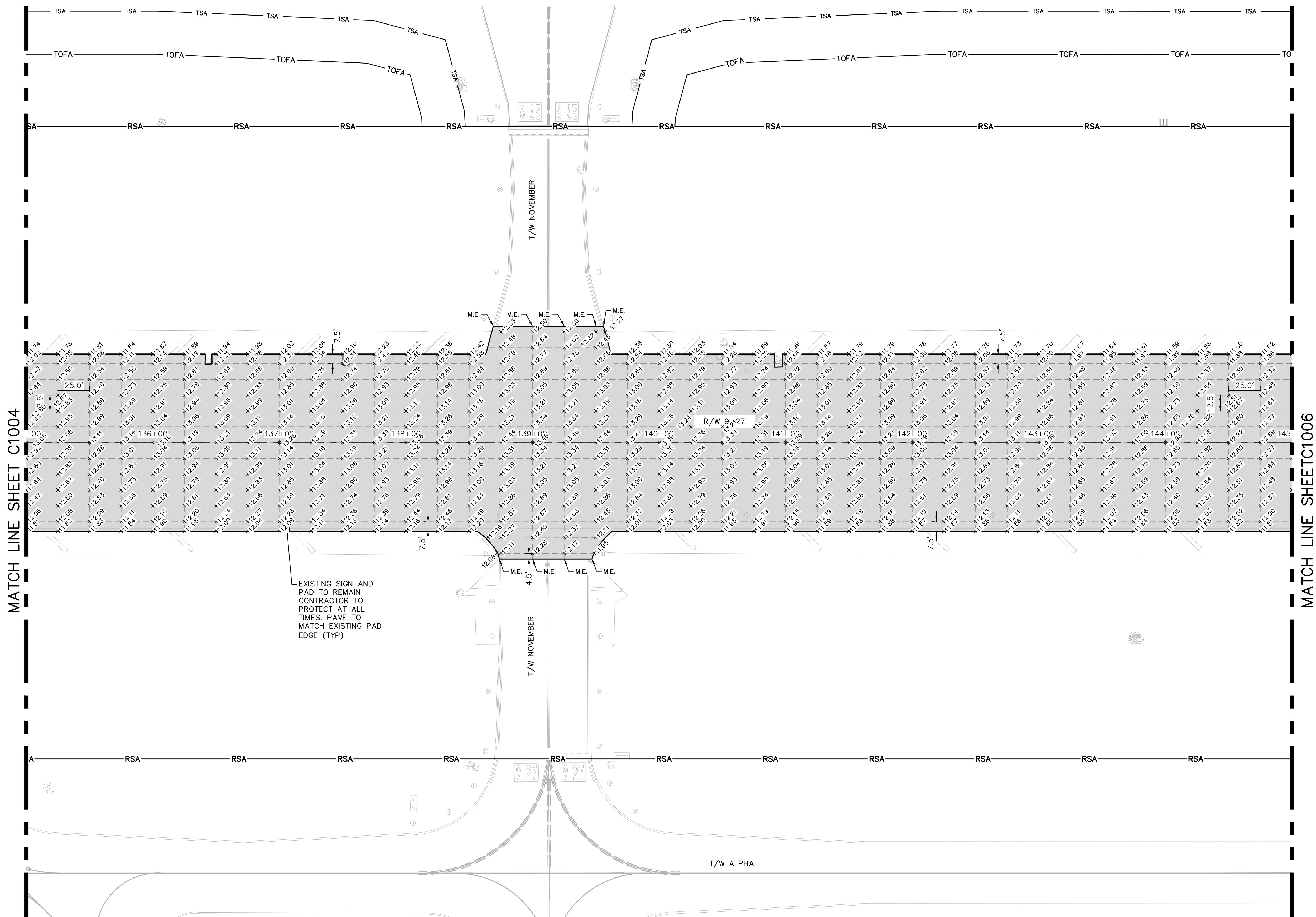
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DESIGNED BY: KAS
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FIELD BOOK: 33301

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BID SET

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NOTES

1. REFER TO SHEETS C701 TO C708 FOR GEOMETRY PLANS.
2. REFER TO SHEETS C801 TO C808 FOR GRADING PLANS.
3. REFER TO SHEET C601 TO C608 FOR DEMOLITION REQUIREMENTS
4. SEE "TYPICAL SECTIONS" SHEET C401 TO C403
5. CONTRACTOR SHALL GRADE AROUND ALL EXISTING STRUCTURES TO REMAIN, INCLUDING BUT NOT LIMITED TO TAXIWAY AND RUNWAY SIGNAGE

LEGEND

- | | |
|--|---|
| | CONSTRUCT NEW PAVEMENT SECTION TO GRADE |
| | SPOT ELEVATION |
| | RSA RUNWAY SAFETY AREA |
| | RPZ RUNWAY PROTECTION ZONE |

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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
SPOT ELEVATION PLAN

SHEET NO. OF
C1005
TOTAL: 110
CAD FILE:
12764--MULTI--ELEV
DRAWING FILE NO.

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

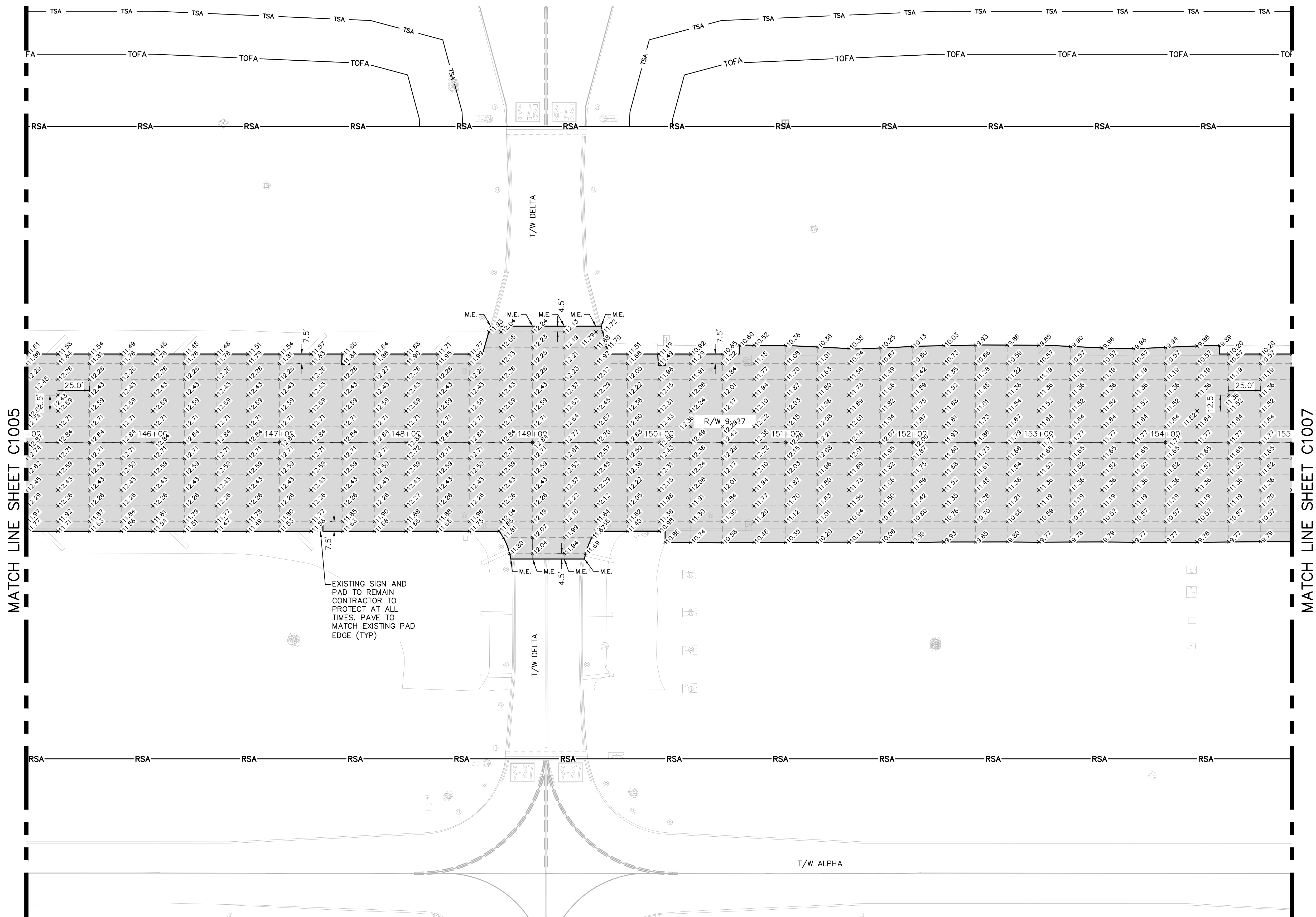


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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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ENGINEER:
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DATE:
TEL: 561-840-0825
FAX:

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NOTES

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LEGEND

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- SPOT ELEVATION
- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE

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LICENSE NO. CA3805

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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
SPOT ELEVATION PLAN

SHEET NO. OF

C1006

TOTAL: 110

CAD FILE:

12764--MULTI--ELEV

DRAWING FILE NO.

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE



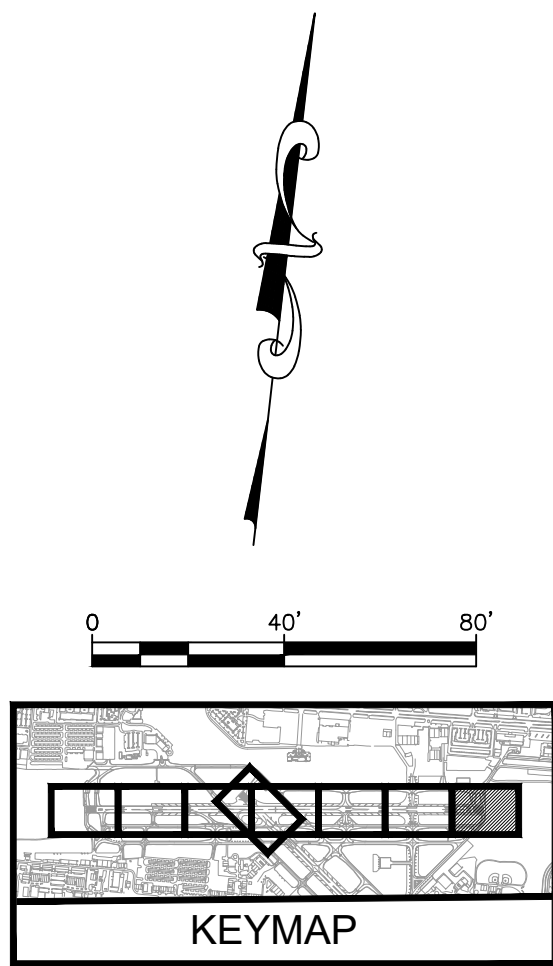
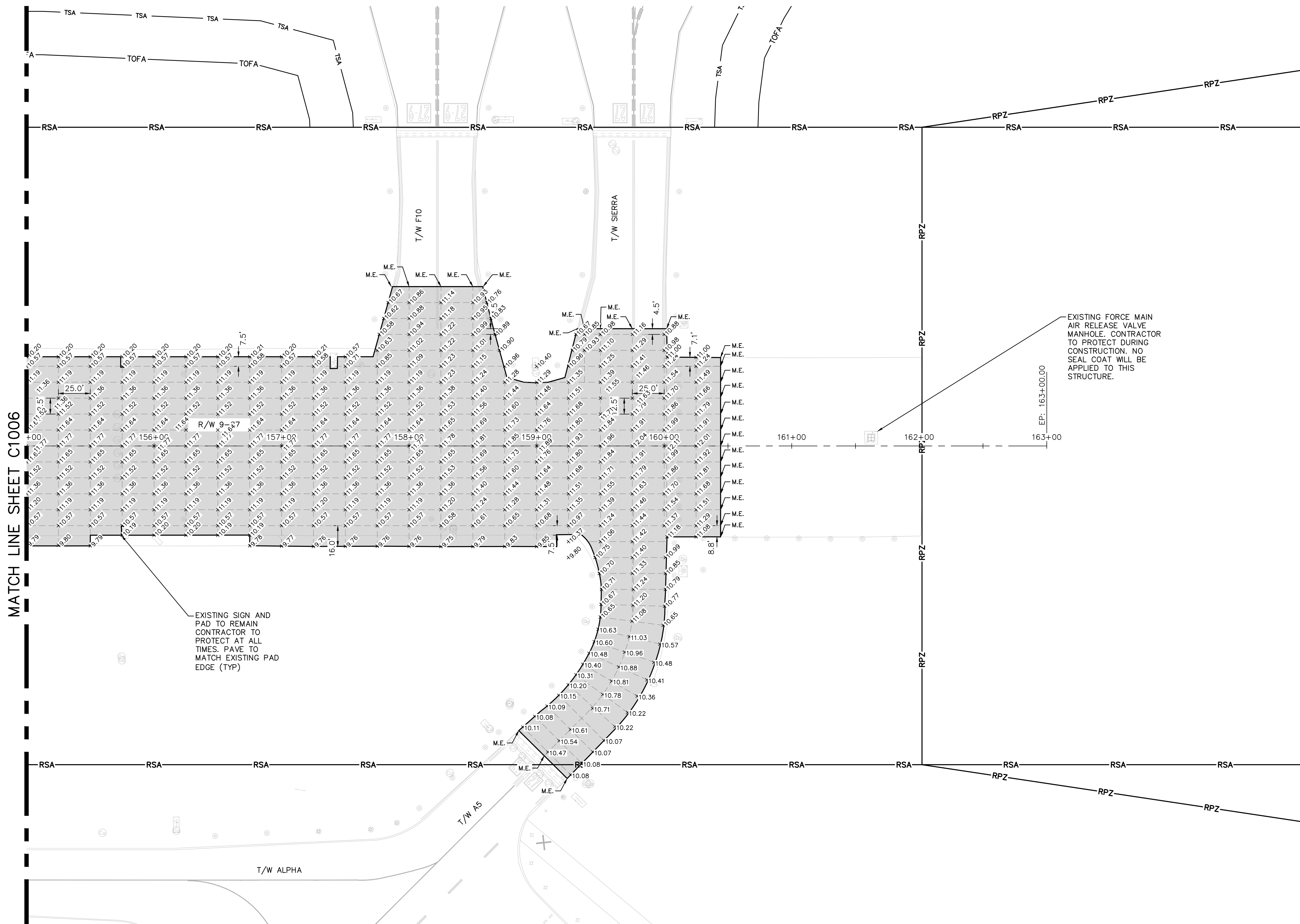
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62476
DATE:
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ALB
DESIGNED BY:
KAS
CHECKED BY:
TFO
FIELD BOOK:

DATE: 06/07/2024
SCALE: AS NOTED
FIELD BOOK: 33301

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FAX:

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NOTES

1. REFER TO SHEETS C701 TO C708 FOR GEOMETRY PLANS.
2. REFER TO SHEETS C801 TO C808 FOR GRADING PLANS.
3. REFER TO SHEET C601 TO C608 FOR DEMOLITION REQUIREMENTS
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LEGEND

- CONSTRUCT NEW PAVEMENT SECTION TO GRADE
- SPOT ELEVATION
- RUNWAY SAFETY AREA
- RUNWAY PROTECTION ZONE

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

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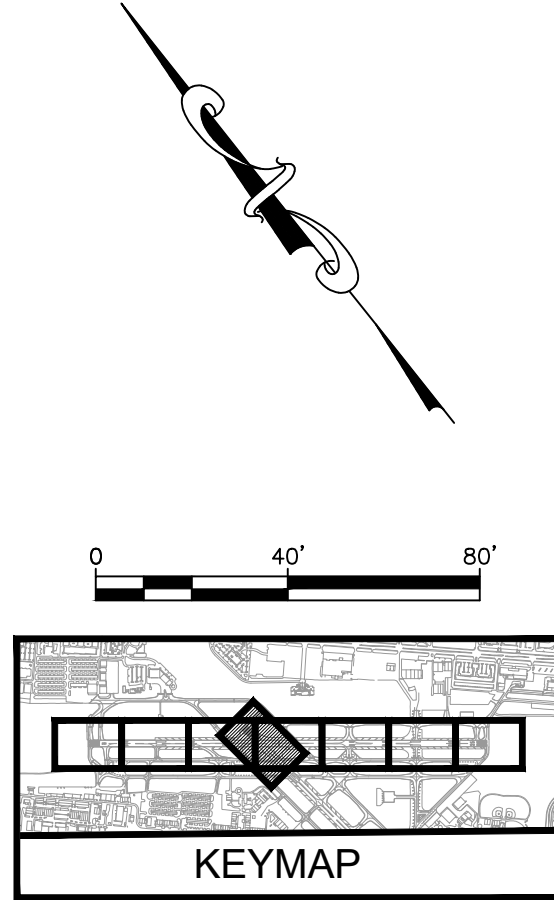
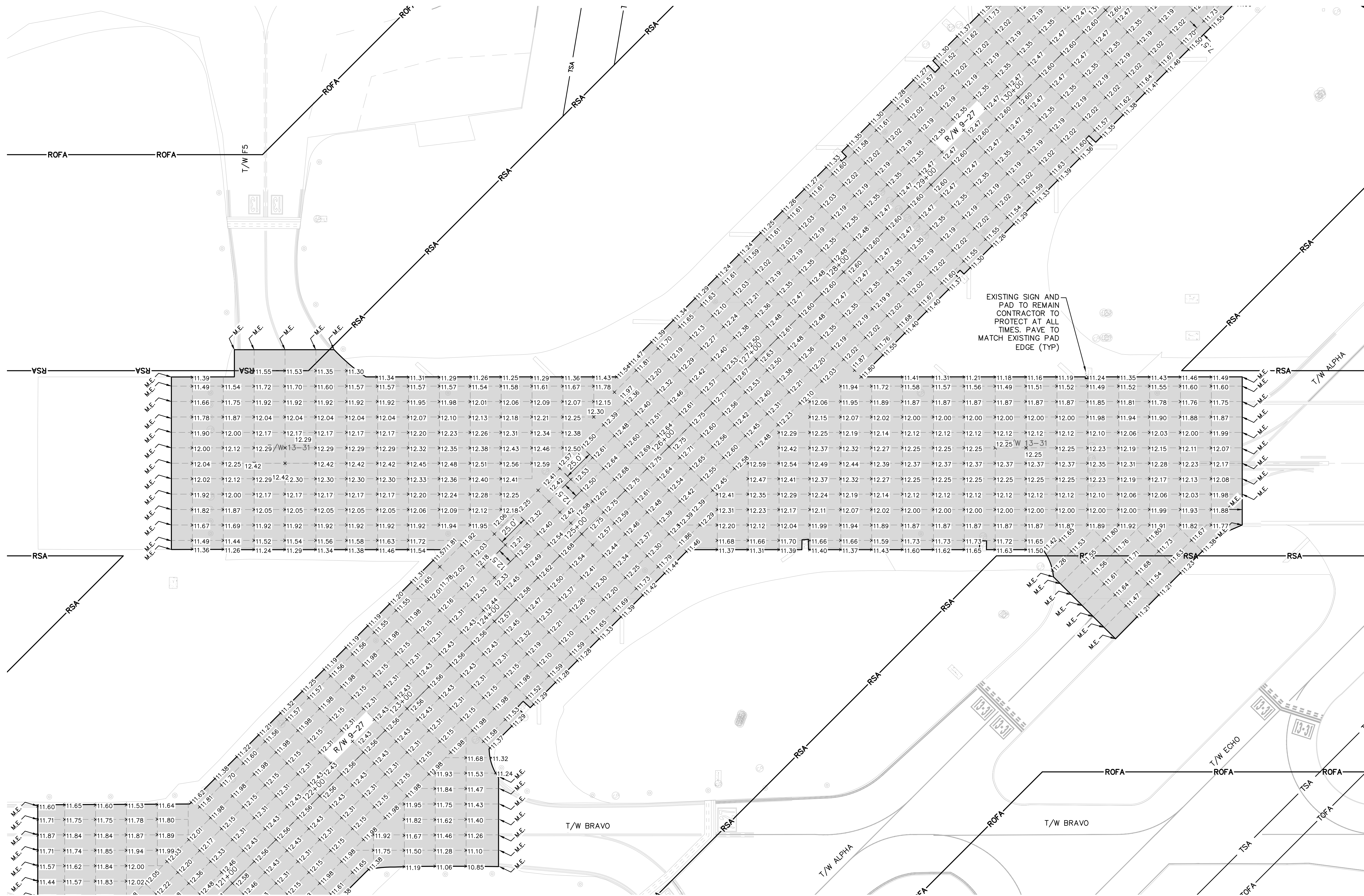
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	BY	CHK'D	

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
SPOT ELEVATION PLAN

SHEET NO. OF
C1007

TOTAL: 110
CAD FILE:
12764--MULTI--ELEV
DRAWING FILE NO.

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NOTES

1. REFER TO SHEETS C701 TO C708 FOR GEOMETRY PLANS.
2. REFER TO SHEETS C801 TO C808 FOR GRADING PLANS.
3. REFER TO SHEET C601 TO C608 FOR DEMOLITION REQUIREMENTS
4. SEE "TYPICAL SECTIONS" SHEET C401 TO C403
5. CONTRACTOR SHALL GRADE AROUND ALL EXISTING STRUCTURES TO REMAIN, INCLUDING BUT NOT LIMITED TO TAXIWAY AND RUNWAY SIGNAGE

LEGEND

- | | |
|-------|---|
| | CONSTRUCT NEW PAVEMENT SECTION TO GRADE |
| + | SPOT ELEVATION |
| —RSA— | RUNWAY SAFETY AREA |
| —RPZ— | RUNWAY PROTECTION ZONE |

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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
SPOT ELEVATION PLAN

SHEET NO. OF
C1008
TOTAL: 110
CAD FILE:
12764-MULTI-ELEV
DRAWING FILE NO.

ENGINEER:
THOMAS F. O'DONNELL
DATE: 06/07/2024

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DESIGNED BY: SCALE: AS NOTED
CHECKED BY: KAS
TFO

FIELD BOOK:

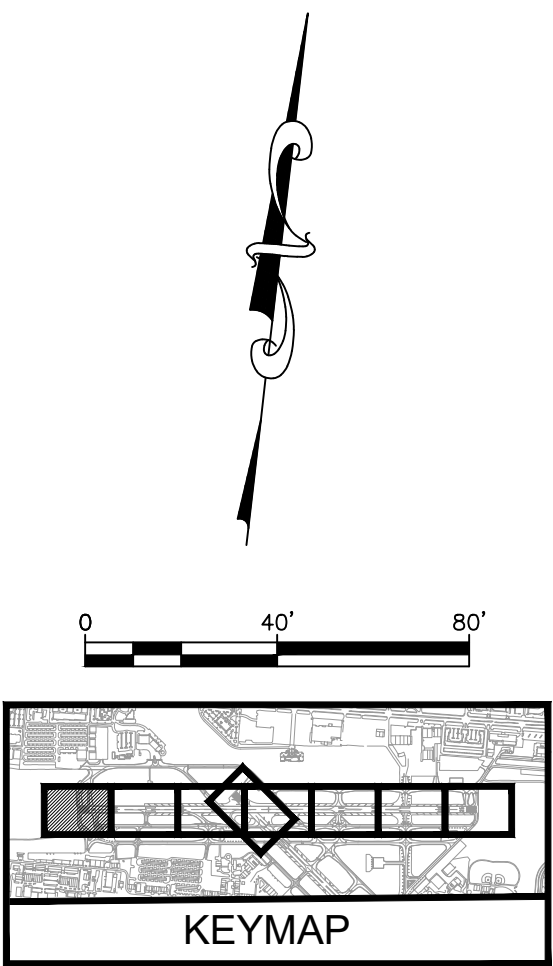
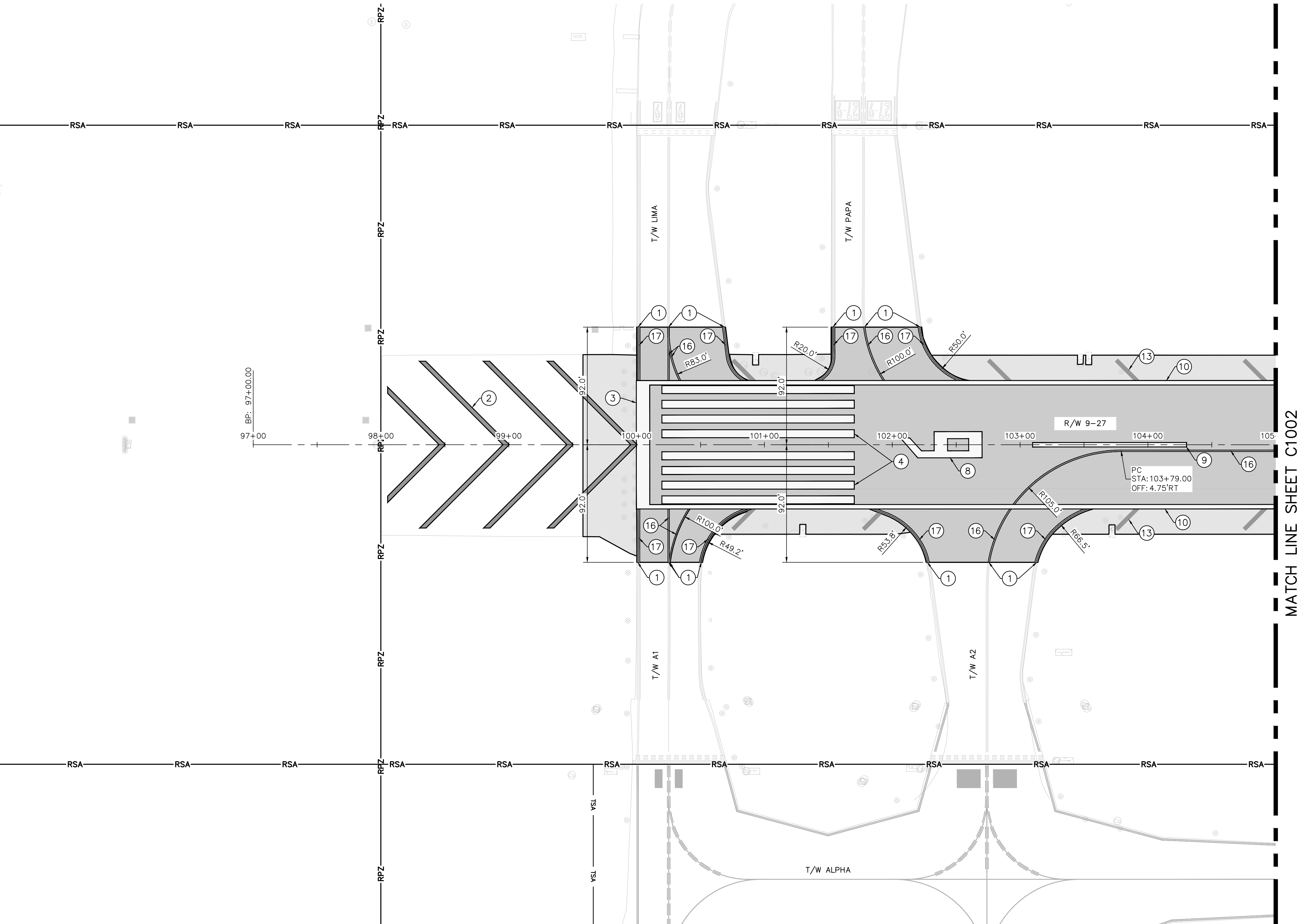
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NO.	DATE	BY	CHK'D	DESCRIPTION

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LEGEND

- LIMITS OF NEW PAVEMENT
- RSA RUNWAY SAFETY AREA
- 1 MATCH EXISTING STRIPING
- 2 RUNWAY BLAST PAD CHEVRON MARKING. SEE DETAIL, SHEET C1109.
- 3 RUNWAY THRESHOLD BAR MARKING. SEE DETAIL, SHEET C1109.
- 4 RUNWAY THRESHOLD MARKING. SEE DETAIL, SHEET C1109.
- 5 RUNWAY TRIPLE TOUCHDOWN ZONE MARKING, CONTINUOUS. SEE DETAIL, SHEET C1109.
- 6 RUNWAY AIMING POINT MARKING. SEE DETAIL, SHEET C1109.
- 7 RUNWAY DOUBLE TOUCHDOWN ZONE MARKING. SEE DETAIL, SHEET C1109.
- 8 RUNWAY LANDING DESIGNATOR MARKING. SEE DETAIL, SHEET C1110
- 9 RUNWAY CENTERLINE MARKING (36"). SEE DETAIL, SHEET C1110

LEGEND (CONT.)

- 10 RUNWAY EDGE MARKING (36"), SEE DETAIL SHEET C1110
- 11 RUNWAY CENTERLINE MARKING (18"). SEE DETAIL, SHEET C1110
- 12 RUNWAY EDGE MARKING (18"). SEE DETAIL SHEET C1110
- 13 RUNWAY SHOULDER MARKING, SEE DETAIL SHEET C1110
- 14 LAND AND HOLD SHORT OPERATIONS (LAHSO) MARKING RUNWAY HOLDING POSITION MARKING - PATTERN A, SEE DETAIL SHEET C1111
- ~~15 ENHANCED TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111~~
- 16 TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111
- 17 TAXIWAY EDGE MARKING, SEE DETAIL SHEET C1111
- ~~18 SURFACE PAINTED HOLDING POSITION SIGNS. SEE DETAIL SHEET C1111~~
- 19 TAXIWAY SHOULDER MARKING, SEE DETAIL SHEET C1111

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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT MARKING PLAN

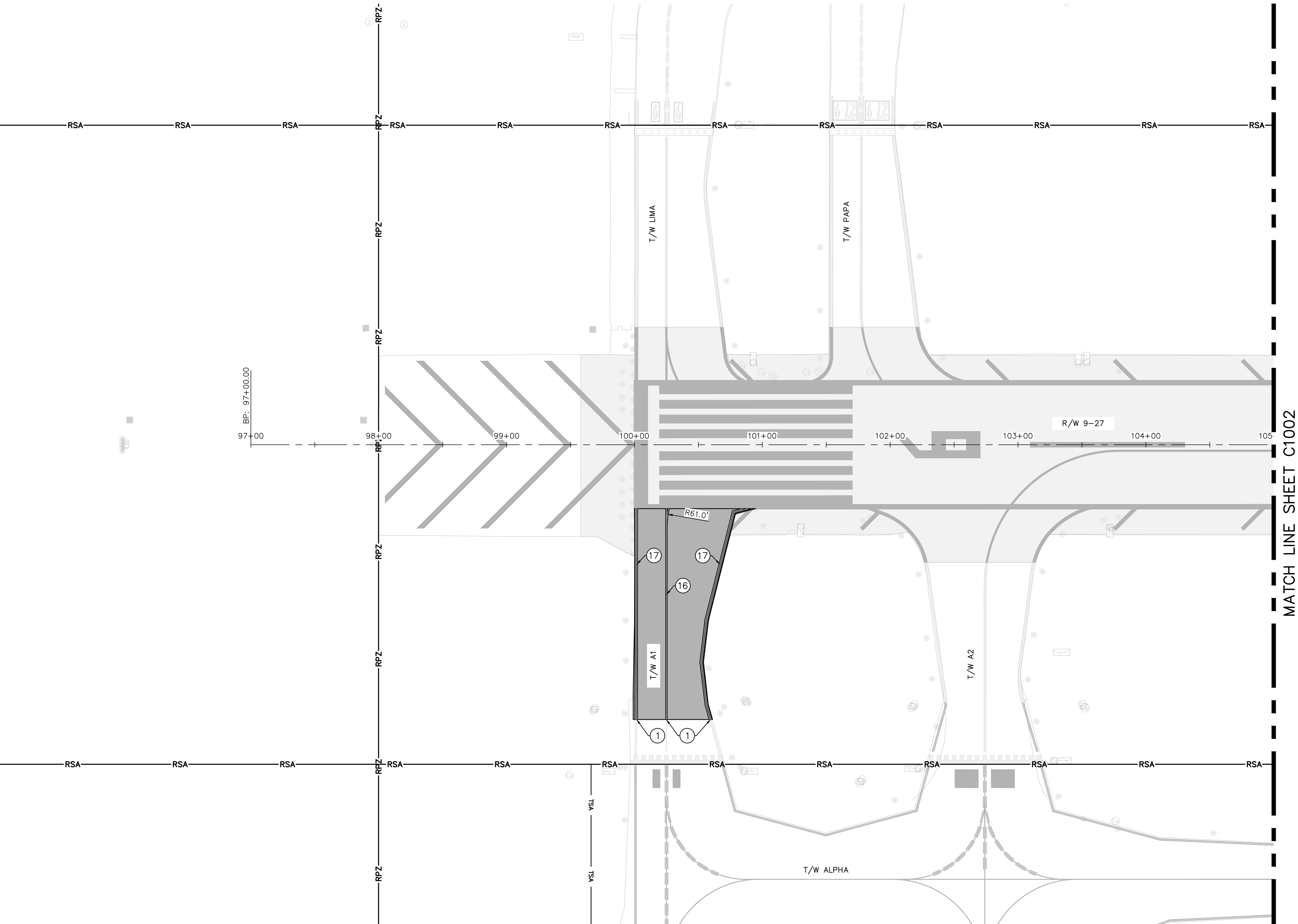
SHEET NO. OF
C1101 110
TOTAL: 110
CAD FILE: 12764--MULTI--MARK
DRAWING FILE NO.

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

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ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62476
DATE:
TEL: 561-840-0825
FAX:

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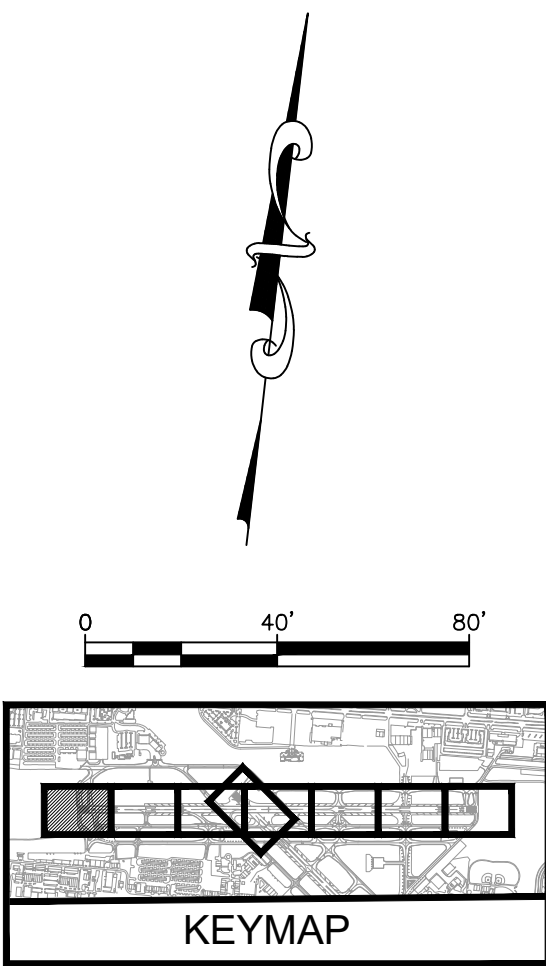


LEGEND

- LIMITS OF NEW PAVEMENT
- RSA RUNWAY SAFETY AREA
- MATCH EXISTING STRIPING
- RUNWAY BLAST PAD CHEVRON MARKING. SEE DETAIL, SHEET C1109.
- RUNWAY THRESHOLD BAR MARKING. SEE DETAIL, SHEET C1109.
- RUNWAY THRESHOLD MARKING. SEE DETAIL, SHEET C1109.
- RUNWAY TRIPLE TOUCHDOWN ZONE MARKING, CONTINUOUS. SEE DETAIL, SHEET C1109.
- RUNWAY AIMING POINT MARKING. SEE DETAIL, SHEET C1109.
- RUNWAY DOUBLE TOUCHDOWN ZONE MARKING. SEE DETAIL, SHEET C1109.
- RUNWAY LANDING DESIGNATOR MARKING. SEE DETAIL, SHEET C1110
- RUNWAY CENTERLINE MARKING (36"). SEE DETAIL, SHEET C1110

LEGEND (CONT.)

- RUNWAY EDGE MARKING (36"), SEE DETAIL SHEET C1110
- RUNWAY CENTERLINE MARKING (18"). SEE DETAIL, SHEET C1110
- RUNWAY EDGE MARKING (18"). SEE DETAIL SHEET C1110
- RUNWAY SHOULDER MARKING, SEE DETAIL SHEET C1110
- LAND AND HOLD SHORT OPERATIONS (LAHSO) MARKING RUNWAY HOLDING POSITION MARKING - PATTERN A, SEE DETAIL SHEET C1111
- ~~ENHANCED TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111~~
- TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111
- TAXIWAY EDGE MARKING, SEE DETAIL SHEET C1111
- ~~SURFACE PAINTED HOLDING POSITION SIGNS. SEE DETAIL SHEET C1111~~
- TAXIWAY SHOULDER MARKING, SEE DETAIL SHEET C1111



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ENGINEER:
THOMAS F. O'DONNELL
PROJ. NO: 062476
DATE:
DRAWN BY:
ALB
DESIGNED BY:
KAS
CHECKED BY:
TFO
FIELD BOOK:
TEL: 561-840-0825
FAX:

DATE: 06/07/2024
SCALE: AS NOTED
AS NOTED
FIELD BOOK:

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

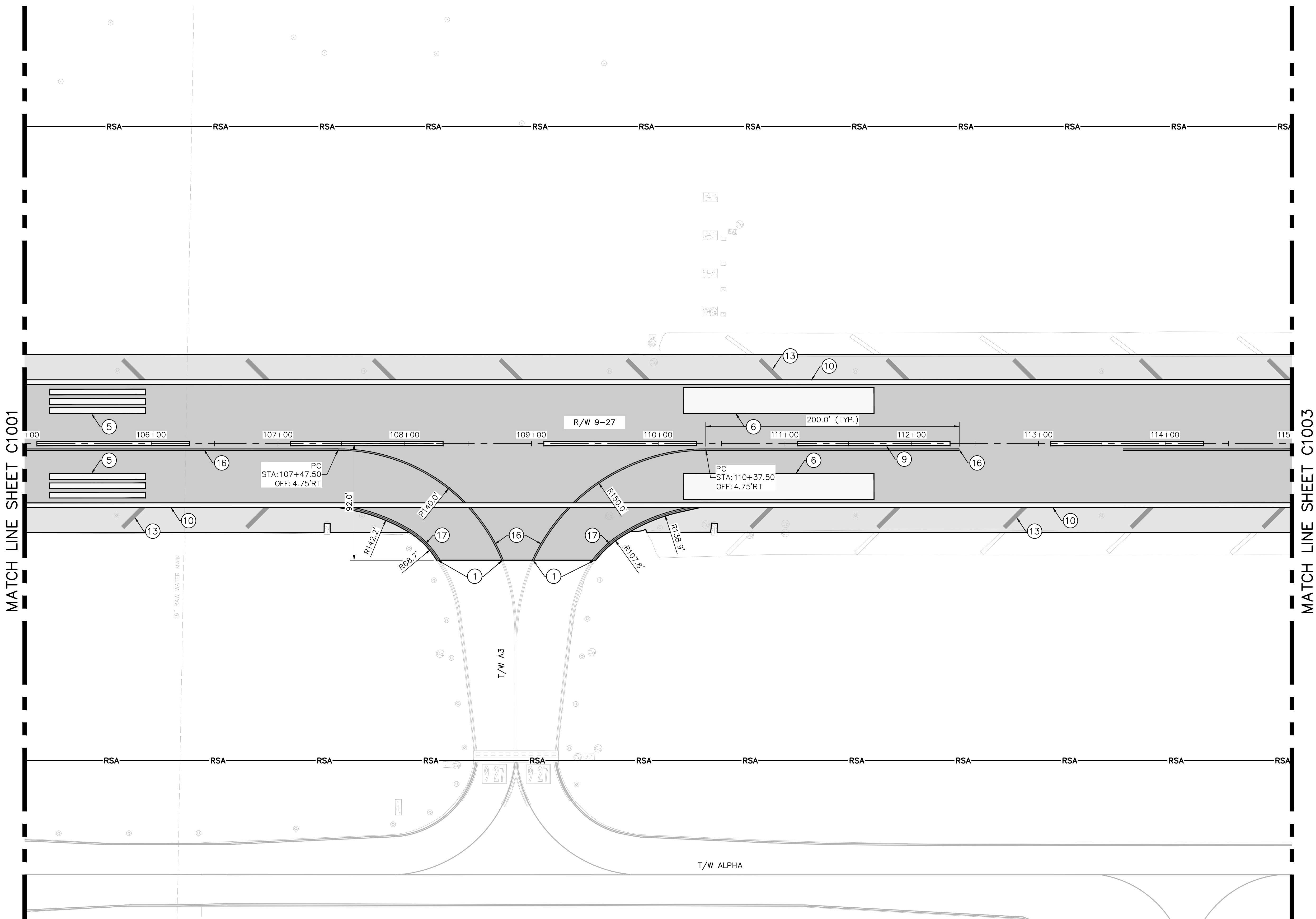
NO.	REVISIONS		DESCRIPTION
	BY	CHK'D	

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT MARKING PLAN-ADD ALT1

SHEET NO. OF
C1101A 110
TOTAL: 110
CAD FILE:
12764-MULTI-MARK-ALT1
DRAWING FILE NO.

BID SET

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MATCH LINE SHEET C1001

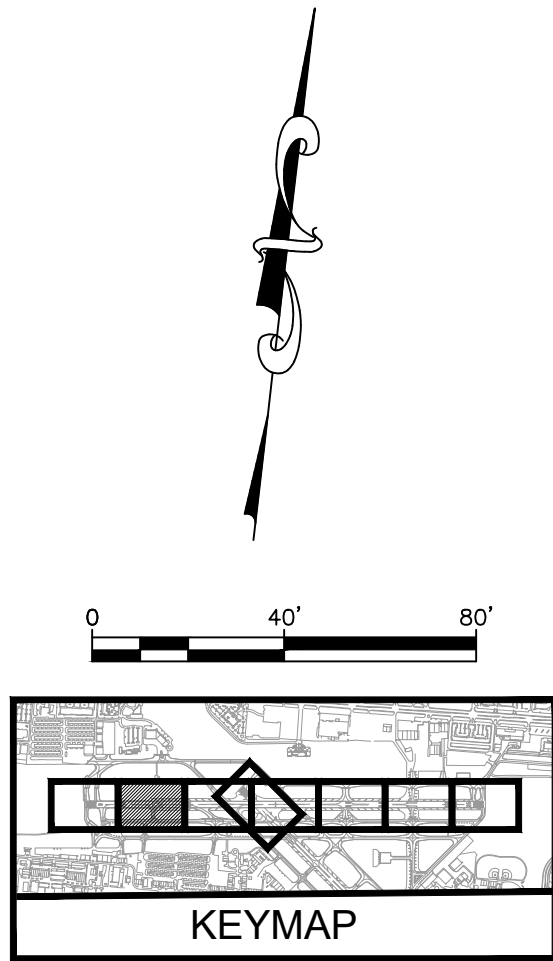
MATCH LINE SHEET C1003

LEGEND

- LIMITS OF NEW PAVEMENT
- RSA RUNWAY SAFETY AREA
- 1 MATCH EXISTING STRIPING
- 2 RUNWAY BLAST PAD CHEVRON MARKING. SEE DETAIL, SHEET C1109.
- 3 RUNWAY THRESHOLD BAR MARKING. SEE DETAIL, SHEET C1109.
- 4 RUNWAY THRESHOLD MARKING. SEE DETAIL, SHEET C1109.
- 5 RUNWAY TRIPLE TOUCHDOWN ZONE MARKING, CONTINUOUS. SEE DETAIL, SHEET C1109.
- 6 RUNWAY AIMING POINT MARKING. SEE DETAIL, SHEET C1109.
- 7 RUNWAY DOUBLE TOUCHDOWN ZONE MARKING. SEE DETAIL, SHEET C1109.
- 8 RUNWAY LANDING DESIGNATOR MARKING. SEE DETAIL, SHEET C1110
- 9 RUNWAY CENTERLINE MARKING (36"). SEE DETAIL, SHEET C1110

LEGEND (CONT.)

- 10 RUNWAY EDGE MARKING (36"), SEE DETAIL SHEET C1110
- 11 RUNWAY CENTERLINE MARKING (18"). SEE DETAIL, SHEET C1110
- 12 RUNWAY EDGE MARKING (18"). SEE DETAIL SHEET C1110
- 13 RUNWAY SHOULDER MARKING, SEE DETAIL SHEET C1110
- 14 LAND AND HOLD SHORT OPERATIONS (LAHSO) MARKING RUNWAY HOLDING POSITION MARKING - PATTERN A, SEE DETAIL SHEET C1111
- ~~15 ENHANCED TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111~~
- 16 TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111
- 17 TAXIWAY EDGE MARKING, SEE DETAIL SHEET C1111
- ~~18 SURFACE PAINTED HOLDING POSITION SIGNS. SEE DETAIL SHEET C1111~~
- 19 TAXIWAY SHOULDER MARKING, SEE DETAIL SHEET C1111



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BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT MARKING PLAN

SHEET NO. OF
C1102
TOTAL: 110
CAD FILE:
12764--MULTI--MARK
DRAWING FILE NO.

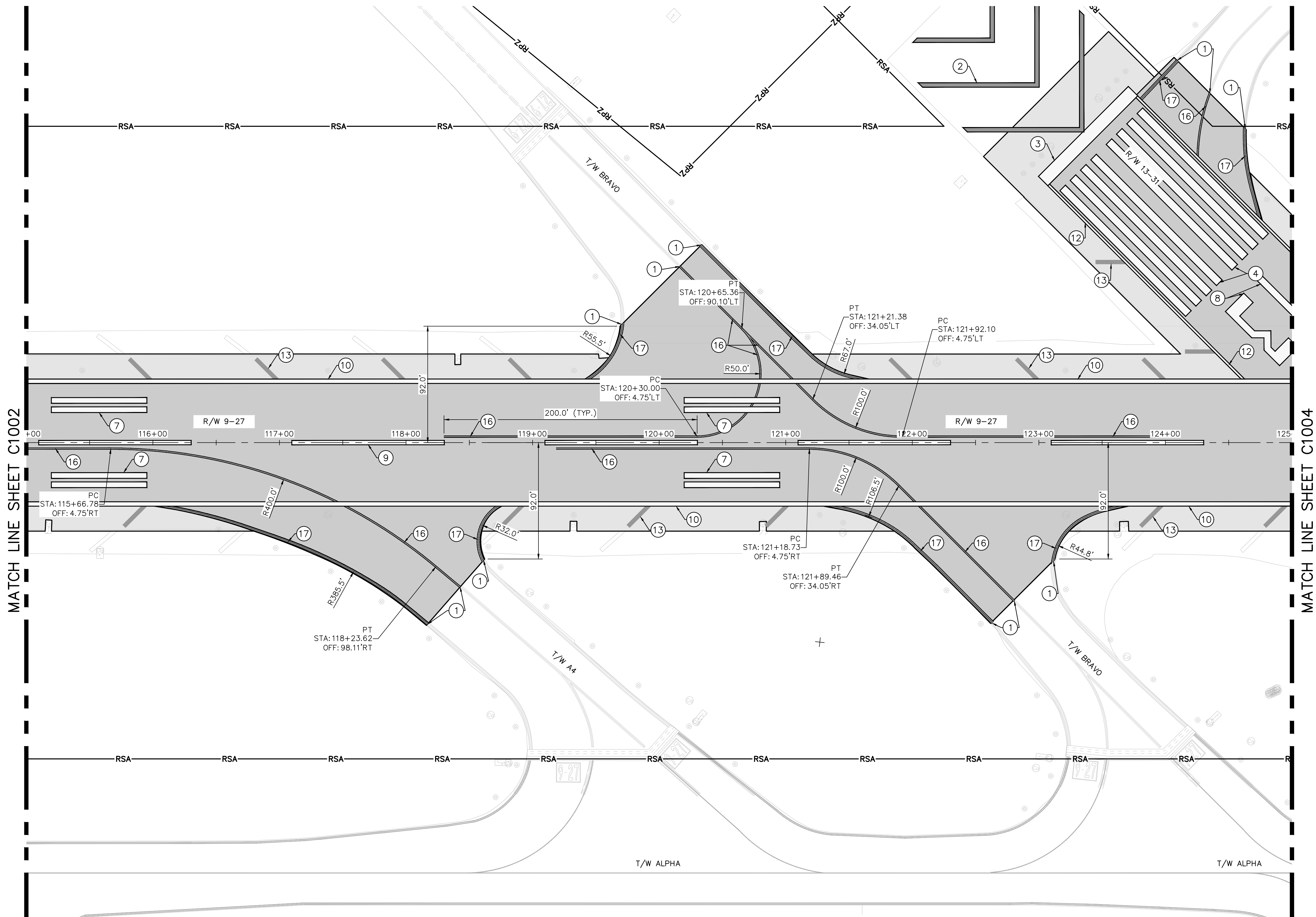
ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 06476
DATE:

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

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

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHK'D

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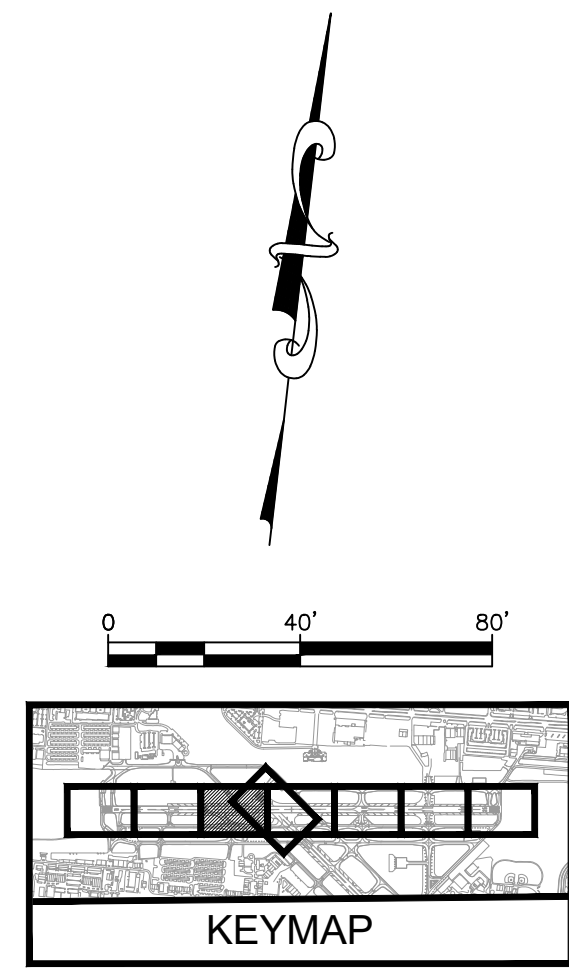


LEGEND

- LIMITS OF NEW PAVEMENT
- RSA RUNWAY SAFETY AREA
- ① MATCH EXISTING STRIPING
- ② RUNWAY BLAST PAD CHEVRON MARKING. SEE DETAIL, SHEET C1109.
- ③ RUNWAY THRESHOLD BAR MARKING. SEE DETAIL, SHEET C1109.
- ④ RUNWAY THRESHOLD MARKING. SEE DETAIL, SHEET C1109.
- ⑤ RUNWAY TRIPLE TOUCHDOWN ZONE MARKING, CONTINUOUS. SEE DETAIL, SHEET C1109.
- ⑥ RUNWAY AIMING POINT MARKING. SEE DETAIL, SHEET C1109.
- ⑦ RUNWAY DOUBLE TOUCHDOWN ZONE MARKING. SEE DETAIL, SHEET C1109.
- ⑧ RUNWAY LANDING DESIGNATOR MARKING. SEE DETAIL, SHEET C1110
- ⑨ RUNWAY CENTERLINE MARKING (36"). SEE DETAIL, SHEET C1110

LEGEND (CONT.)

- ⑩ RUNWAY EDGE MARKING (36"), SEE DETAIL SHEET C1110
- ⑪ RUNWAY CENTERLINE MARKING (18"). SEE DETAIL, SHEET C1110
- ⑫ RUNWAY EDGE MARKING (18"). SEE DETAIL SHEET C1110
- ⑬ RUNWAY SHOULDER MARKING, SEE DETAIL SHEET C1110
- ⑭ LAND AND HOLD SHORT OPERATIONS (LAHSO) MARKING RUNWAY HOLDING POSITION MARKING - PATTERN A, SEE DETAIL SHEET C1111
- ~~⑮ ENHANCED TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111~~
- ⑯ TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111
- ⑰ TAXIWAY EDGE MARKING, SEE DETAIL SHEET C1111
- ~~⑱ SURFACE PAINTED HOLDING POSITION SIGNS. SEE DETAIL SHEET C1111~~
- ⑲ TAXIWAY SHOULDER MARKING, SEE DETAIL SHEET C1111



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

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

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

NO.	DATE	BY	CHK'D	REVISIONS	DESCRIPTION

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT MARKING PLAN

SHEET NO. OF
C1103 110

TOTAL: 110
CAD FILE: 12764-MULTI-MARK
DRAWING FILE NO.

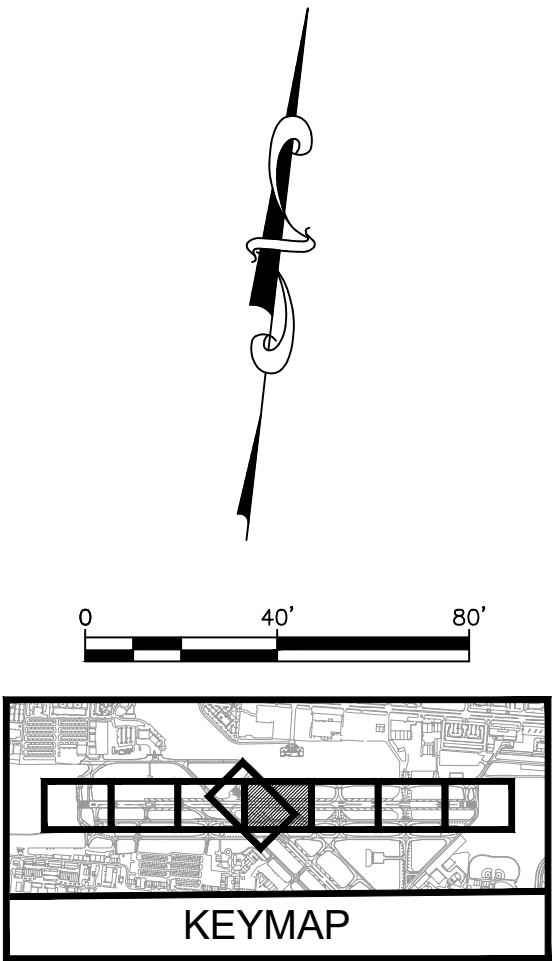
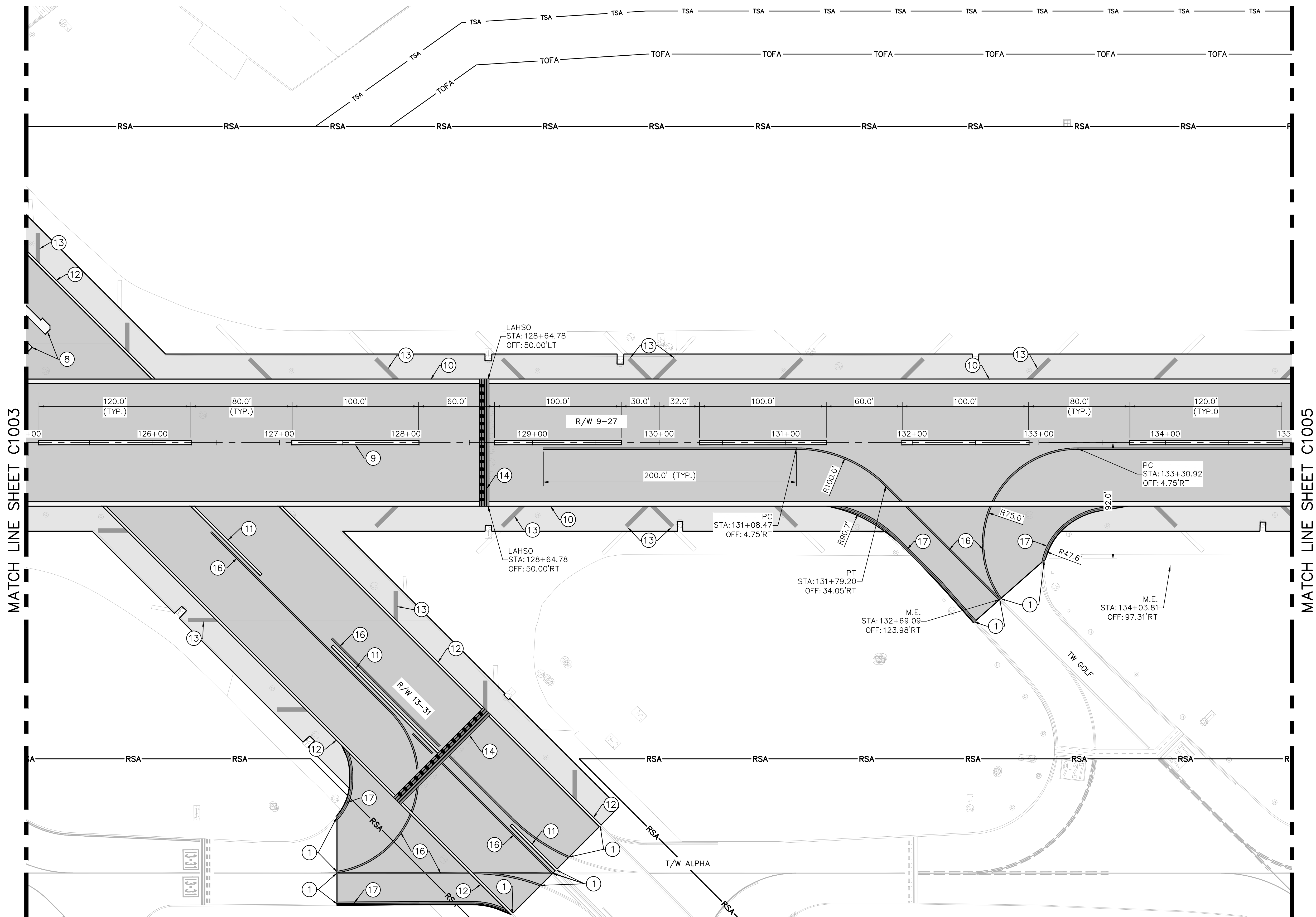
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Kimley-Horn
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600 PETER ROAD, SUITE 200, PALM BEACH, FL 33481
PHONE: 561-991-1100 FAX: 561-991-2200
WWW.KIMLEY-HORN.COM REGISTRY NO. 30506












QUANTUM
Electrical Engineering, Inc.
2751 VISTA PARKWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL: 561-991-9224
LICENSE NO. CA38805

BID SET











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LEGEND

-  LIMITS OF NEW PAVEMENT
-  RSA RUNWAY SAFETY AREA
-  MATCH EXISTING STRIPING
-  RUNWAY BLAST PAD CHEVRON MARKING. SEE DETAIL, SHEET C1109.
-  RUNWAY THRESHOLD BAR MARKING. SEE DETAIL, SHEET C1109.
-  RUNWAY THRESHOLD MARKING. SEE DETAIL, SHEET C1109.
-  RUNWAY TRIPLE TOUCHDOWN ZONE MARKING, CONTINUOUS. SEE DETAIL, SHEET C1109.
-  RUNWAY AIMING POINT MARKING. SEE DETAIL, SHEET C1109.
-  RUNWAY DOUBLE TOUCHDOWN ZONE MARKING. SEE DETAIL, SHEET C1109.
-  RUNWAY LANDING DESIGNATOR MARKING. SEE DETAIL, SHEET C1110
-  RUNWAY CENTERLINE MARKING (36"). SEE DETAIL, SHEET C1110

LEGEND (CONT.)

-  RUNWAY EDGE MARKING (36"), SEE DETAIL SHEET C1110
-  RUNWAY CENTERLINE MARKING (18"). SEE DETAIL, SHEET C1110
-  RUNWAY EDGE MARKING (18"). SEE DETAIL SHEET C1110
-  RUNWAY SHOULDER MARKING, SEE DETAIL SHEET C1110
-  LAND AND HOLD SHORT OPERATIONS (LAHSO) MARKING RUNWAY HOLDING POSITION MARKING - PATTERN A, SEE DETAIL SHEET C1111
-  ENHANCED TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111
-  TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111
-  TAXIWAY EDGE MARKING, SEE DETAIL SHEET C1111
-  SURFACE PAINTED HOLDING POSITION SIGNS. SEE DETAIL SHEET C1111
-  TAXIWAY SHOULDER MARKING, SEE DETAIL SHEET C1111

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BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT MARKING PLAN

SHEET NO. OF
C1104
TOTAL: 110
CAD FILE:
12764-MULTI-MARK
DRAWING FILE NO.

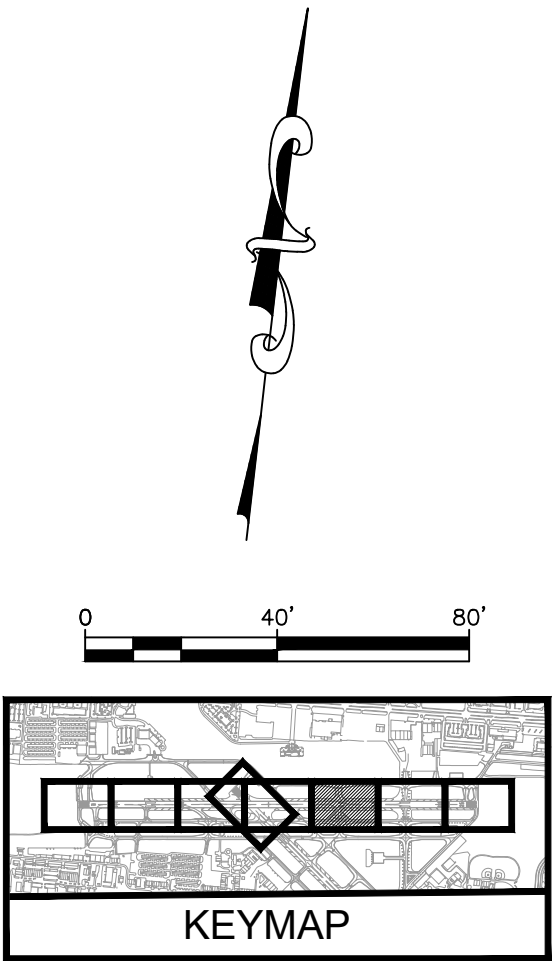
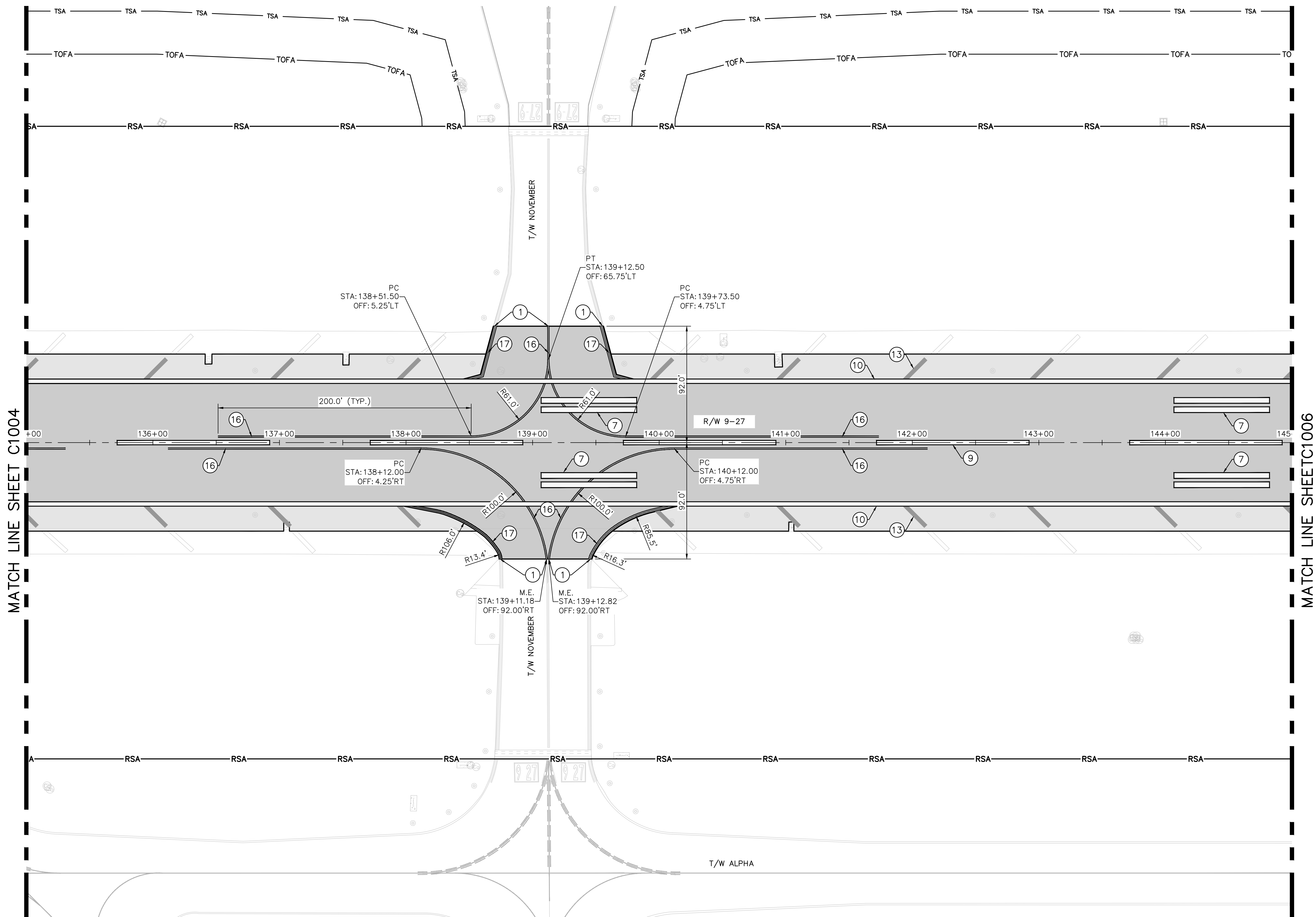
ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62476
DATE:

DRAWN BY: ALB
DESIGNED BY: KAS
CHECKED BY: TFO
DATE: 06/07/2024
SCALE: AS NOTED
FIELD BOOK:












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

NO.	DATE	BY	CHK'D	REVISIONS	DESCRIPTION











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LEGEND

-  LIMITS OF NEW PAVEMENT
-  RSA RUNWAY SAFETY AREA
-  MATCH EXISTING STRIPING
-  RUNWAY BLAST PAD CHEVRON MARKING. SEE DETAIL, SHEET C1109.
-  RUNWAY THRESHOLD BAR MARKING. SEE DETAIL, SHEET C1109.
-  RUNWAY THRESHOLD MARKING. SEE DETAIL, SHEET C1109.
-  RUNWAY TRIPLE TOUCHDOWN ZONE MARKING, CONTINUOUS. SEE DETAIL, SHEET C1109.
-  RUNWAY AIMING POINT MARKING. SEE DETAIL, SHEET C1109.
-  RUNWAY DOUBLE TOUCHDOWN ZONE MARKING. SEE DETAIL, SHEET C1109.
-  RUNWAY LANDING DESIGNATOR MARKING. SEE DETAIL, SHEET C1110
-  RUNWAY CENTERLINE MARKING (36"). SEE DETAIL, SHEET C1110

LEGEND (CONT.)

-  RUNWAY EDGE MARKING (36"). SEE DETAIL SHEET C1110
-  RUNWAY CENTERLINE MARKING (18"). SEE DETAIL, SHEET C1110
-  RUNWAY EDGE MARKING (18"). SEE DETAIL SHEET C1110
-  RUNWAY SHOULDER MARKING, SEE DETAIL SHEET C1110
-  LAND AND HOLD SHORT OPERATIONS (LAHSO) MARKING RUNWAY HOLDING POSITION MARKING - PATTERN A, SEE DETAIL SHEET C1111
-  ENHANCED TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111
-  TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111
-  TAXIWAY EDGE MARKING, SEE DETAIL SHEET C1111
-  SURFACE PAINTED HOLDING POSITION SIGNS. SEE DETAIL SHEET C1111
-  TAXIWAY SHOULDER MARKING, SEE DETAIL SHEET C1111

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Kimley-Horn

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600 PETERS ROAD, SUITE 200, PALM BEACH, FL 33411
PHONE: 561-831-1100 FAX: 561-739-2201
WWW.KIMLEY-HORN.COM REGISTRY NO. 30306

QUANTUM

Electrical Engineering, Inc.
2761 VISTA PARKWAY SUITE 1-4
WEST PALM BEACH, FL 33411
TEL: 561-922-8400
LICENSE NO. CA38865

ENGINEER:
THOMAS F. O'DONNELL
PROJ. NO.: 12764
DATE: 06/07/2024

DESIGNED BY: SCALE: AS NOTED
CHECKED BY: KAS
TFO

FIELD BOOK:

TEL: 561-840-0825
FAX:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHK'D

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT MARKING PLAN

SHEET NO. OF
C1105

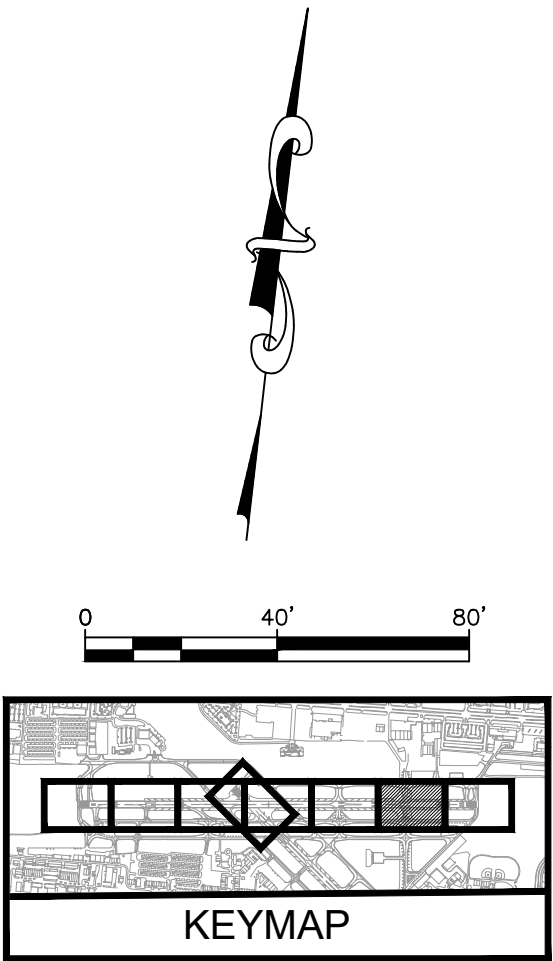
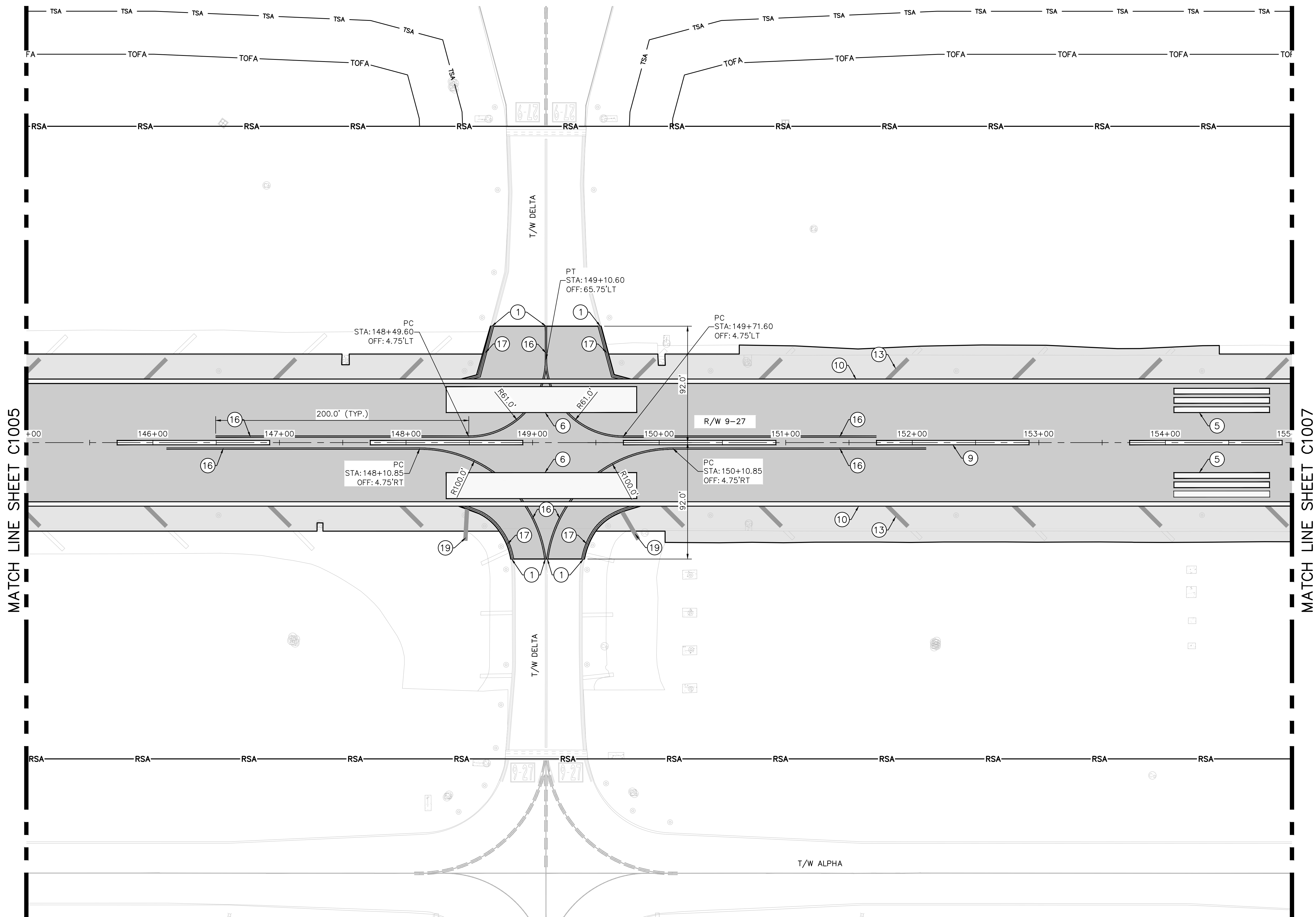
TOTAL: 110

CAD FILE:
12764-MULTI-MARK

DRAWING FILE NO.

BID SET

K:\FTL\AVIATION\044693151_FXE_RW_9-27_REHAB\CADD\PLANSHEETS\12764--MULTI--MARK.DWG



LEGEND

- LIMITS OF NEW PAVEMENT
- RSA — RUNWAY SAFETY AREA
- ① MATCH EXISTING STRIPING
- ② RUNWAY BLAST PAD CHEVRON MARKING. SEE DETAIL, SHEET C1109.
- ③ RUNWAY THRESHOLD BAR MARKING. SEE DETAIL, SHEET C1109.
- ④ RUNWAY THRESHOLD MARKING. SEE DETAIL, SHEET C1109.
- ⑤ RUNWAY TRIPLE TOUCHDOWN ZONE MARKING, CONTINUOUS. SEE DETAIL, SHEET C1109.
- ⑥ RUNWAY AIMING POINT MARKING. SEE DETAIL, SHEET C1109.
- ⑦ RUNWAY DOUBLE TOUCHDOWN ZONE MARKING. SEE DETAIL, SHEET C1109.
- ⑧ RUNWAY LANDING DESIGNATOR MARKING. SEE DETAIL, SHEET C1110
- ⑨ RUNWAY CENTERLINE MARKING (36"). SEE DETAIL, SHEET C1110

LEGEND (CONT.)

- ⑩ RUNWAY EDGE MARKING (36"), SEE DETAIL SHEET C1110
- ⑪ RUNWAY CENTERLINE MARKING (18"). SEE DETAIL, SHEET C1110
- ⑫ RUNWAY EDGE MARKING (18"). SEE DETAIL SHEET C1110
- ⑬ RUNWAY SHOULDER MARKING, SEE DETAIL SHEET C1110
- ⑭ LAND AND HOLD SHORT OPERATIONS (LAHSO) MARKING RUNWAY HOLDING POSITION MARKING – PATTERN A, SEE DETAIL SHEET C1111
- ~~⑮ ENHANCED TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111~~
- ⑯ TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111
- ⑰ TAXIWAY EDGE MARKING, SEE DETAIL SHEET C1111
- ~~⑱ SURFACE PAINTED HOLDING POSITION SIGNS. SEE DETAIL SHEET C1111~~
- ⑲ TAXIWAY SHOULDER MARKING, SEE DETAIL SHEET C1111



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BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT MARKING PLAN

SHEET NO. OF
C1106
TOTAL: 110
CAD FILE:
12764--MULTI--MARK
DRAWING FILE NO.

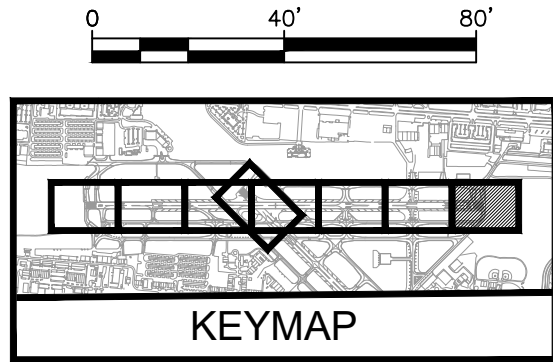
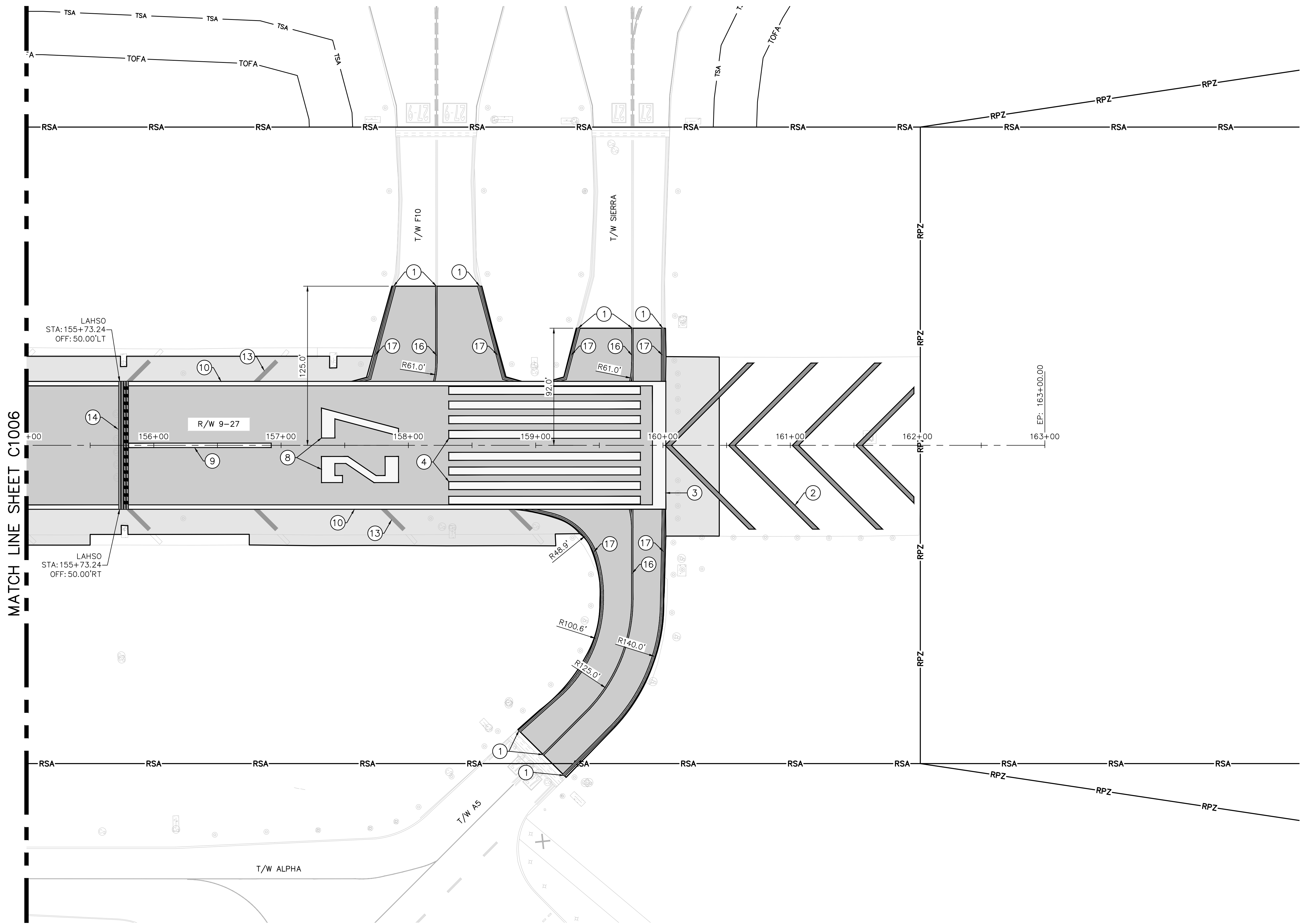
ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 06476
DATE:

DRAWN BY: ALB
DESIGNED BY: KAS
CHECKED BY: TFO
DATE: 06/07/2024
SCALE: AS NOTED
FIELD BOOK:












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

NO.	REVISIONS		DESCRIPTION
	BY	CHK'D	











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LEGEND

-  LIMITS OF NEW PAVEMENT
-  RSA RUNWAY SAFETY AREA
-  MATCH EXISTING STRIPING
-  RUNWAY BLAST PAD CHEVRON MARKING. SEE DETAIL, SHEET C1109.
-  RUNWAY THRESHOLD BAR MARKING. SEE DETAIL, SHEET C1109.
-  RUNWAY THRESHOLD MARKING. SEE DETAIL, SHEET C1109.
-  RUNWAY TRIPLE TOUCHDOWN ZONE MARKING, CONTINUOUS. SEE DETAIL, SHEET C1109.
-  RUNWAY AIMING POINT MARKING. SEE DETAIL, SHEET C1109.
-  RUNWAY DOUBLE TOUCHDOWN ZONE MARKING. SEE DETAIL, SHEET C1109.
-  RUNWAY LANDING DESIGNATOR MARKING. SEE DETAIL, SHEET C1110
-  RUNWAY CENTERLINE MARKING (36"). SEE DETAIL, SHEET C1110

LEGEND (CONT.)

-  RUNWAY EDGE MARKING (36"). SEE DETAIL SHEET C1110
-  RUNWAY CENTERLINE MARKING (18"). SEE DETAIL, SHEET C1110
-  RUNWAY EDGE MARKING (18"). SEE DETAIL SHEET C1110
-  RUNWAY SHOULDER MARKING, SEE DETAIL SHEET C1110
-  LAND AND HOLD SHORT OPERATIONS (LAHSO) MARKING RUNWAY HOLDING POSITION MARKING - PATTERN A, SEE DETAIL SHEET C1111
-  ENHANCED TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111
-  TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111
-  TAXIWAY EDGE MARKING, SEE DETAIL SHEET C1111
-  SURFACE PAINTED HOLDING POSITION SIGNS. SEE DETAIL SHEET C1111
-  TAXIWAY SHOULDER MARKING, SEE DETAIL SHEET C1111

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BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT MARKING PLAN

SHEET NO. OF
C1107
TOTAL: 110
CAD FILE:
12764-MULTI-MARK
DRAWING FILE NO.

ENGINEER: THOMAS F. O'DONNELL Lic. No. 62476 DATE:	DRAWN BY: ALB DESIGNED BY: KAS CHECKED BY: TFO	DATE: 06/07/2024 SCALE: AS NOTED	FIELD BOOK:
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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

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

DRAWN BY: ALB DESIGNED BY: KAS CHECKED BY: TFO	DATE: 06/07/2024 SCALE: AS NOTED	FIELD BOOK:
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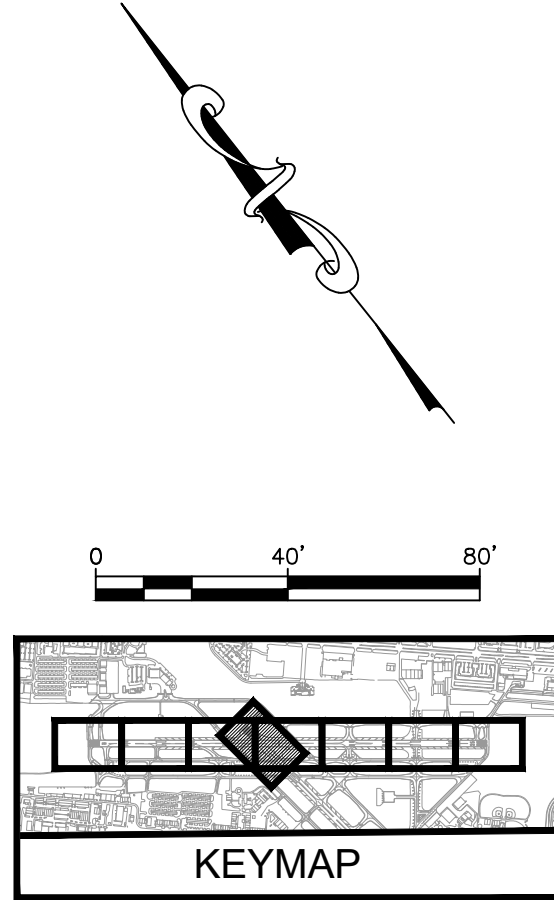
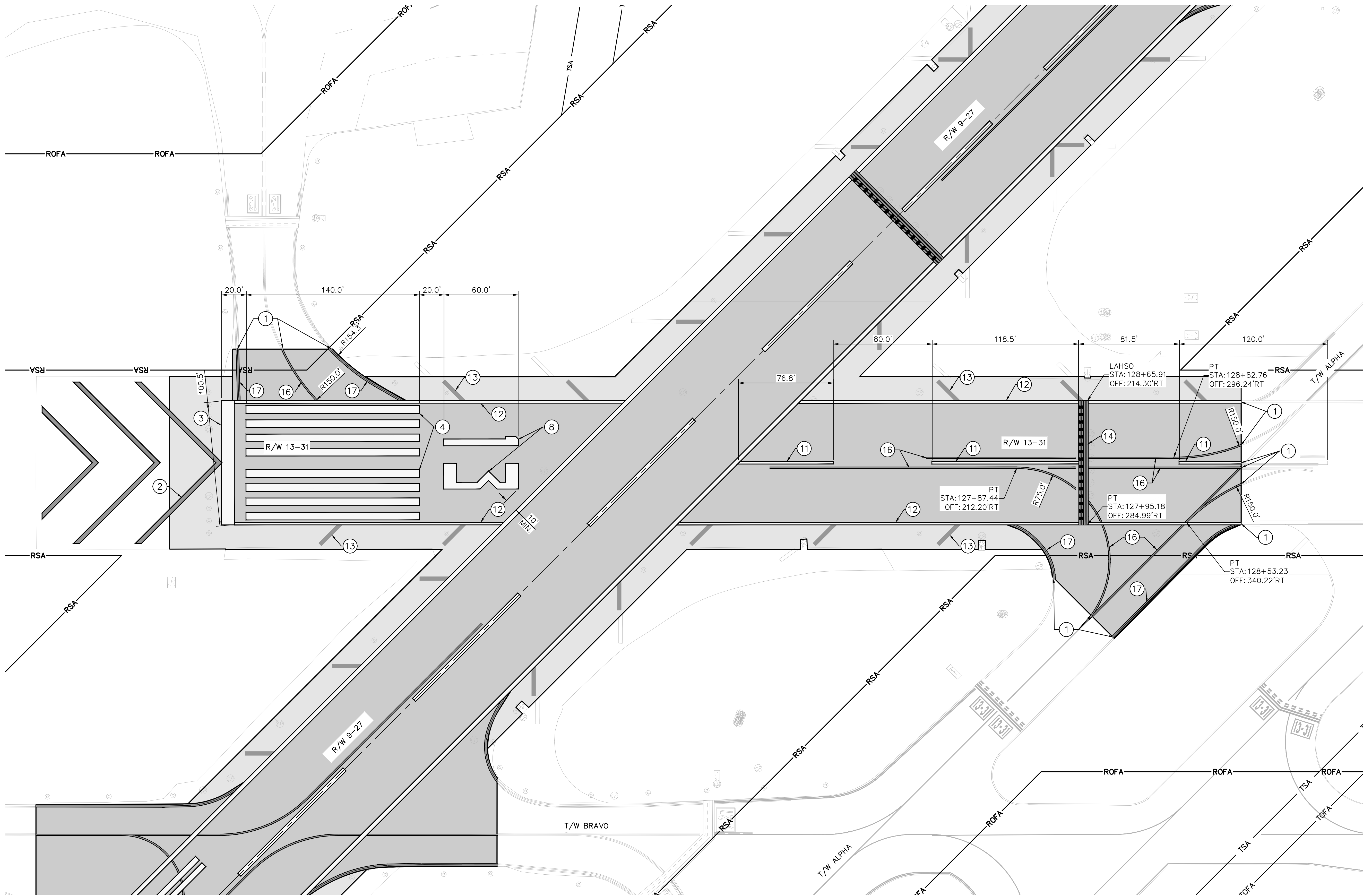
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT MARKING PLAN

SHEET NO. OF
C1107
TOTAL: 110
CAD FILE:
12764-MULTI-MARK
DRAWING FILE NO.

K:\FL\AVIATION\044693151\FXE RW 9-27 REHAB\CADD\PLANSHEETS\12764-MULTI-MARK.DWG



LEGEND

- LIMITS OF NEW PAVEMENT
- RSA RUNWAY SAFETY AREA
- 1 MATCH EXISTING STRIPING
- 2 RUNWAY BLAST PAD CHEVRON MARKING. SEE DETAIL, SHEET C1109.
- 3 RUNWAY THRESHOLD BAR MARKING. SEE DETAIL, SHEET C1109.
- 4 RUNWAY THRESHOLD MARKING. SEE DETAIL, SHEET C1109.
- 5 RUNWAY TRIPLE TOUCHDOWN ZONE MARKING, CONTINUOUS. SEE DETAIL, SHEET C1109.
- 6 RUNWAY AIMING POINT MARKING. SEE DETAIL, SHEET C1109.
- 7 RUNWAY DOUBLE TOUCHDOWN ZONE MARKING. SEE DETAIL, SHEET C1109.
- 8 RUNWAY LANDING DESIGNATOR MARKING. SEE DETAIL, SHEET C1110
- 9 RUNWAY CENTERLINE MARKING (36"). SEE DETAIL, SHEET C1110

LEGEND (CONT.)

- 10 RUNWAY EDGE MARKING (36"), SEE DETAIL SHEET C1110
- 11 RUNWAY CENTERLINE MARKING (18"). SEE DETAIL, SHEET C1110
- 12 RUNWAY EDGE MARKING (18"). SEE DETAIL SHEET C1110
- 13 RUNWAY SHOULDER MARKING, SEE DETAIL SHEET C1110
- 14 LAND AND HOLD SHORT OPERATIONS (LAHSO) MARKING RUNWAY HOLDING POSITION MARKING - PATTERN A, SEE DETAIL SHEET C1111
- 15 ENHANCED TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111
- 16 TAXIWAY CENTERLINE MARKING, SEE DETAIL SHEET C1111
- 17 TAXIWAY EDGE MARKING, SEE DETAIL SHEET C1111
- 18 SURFACE PAINTED HOLDING POSITION SIGNS. SEE DETAIL SHEET C1111
- 19 TAXIWAY SHOULDER MARKING, SEE DETAIL SHEET C1111

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BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT MARKING PLAN

SHEET NO. OF
C1108
TOTAL: 110
CAD FILE:
12764-MULTI-MARK
DRAWING FILE NO.

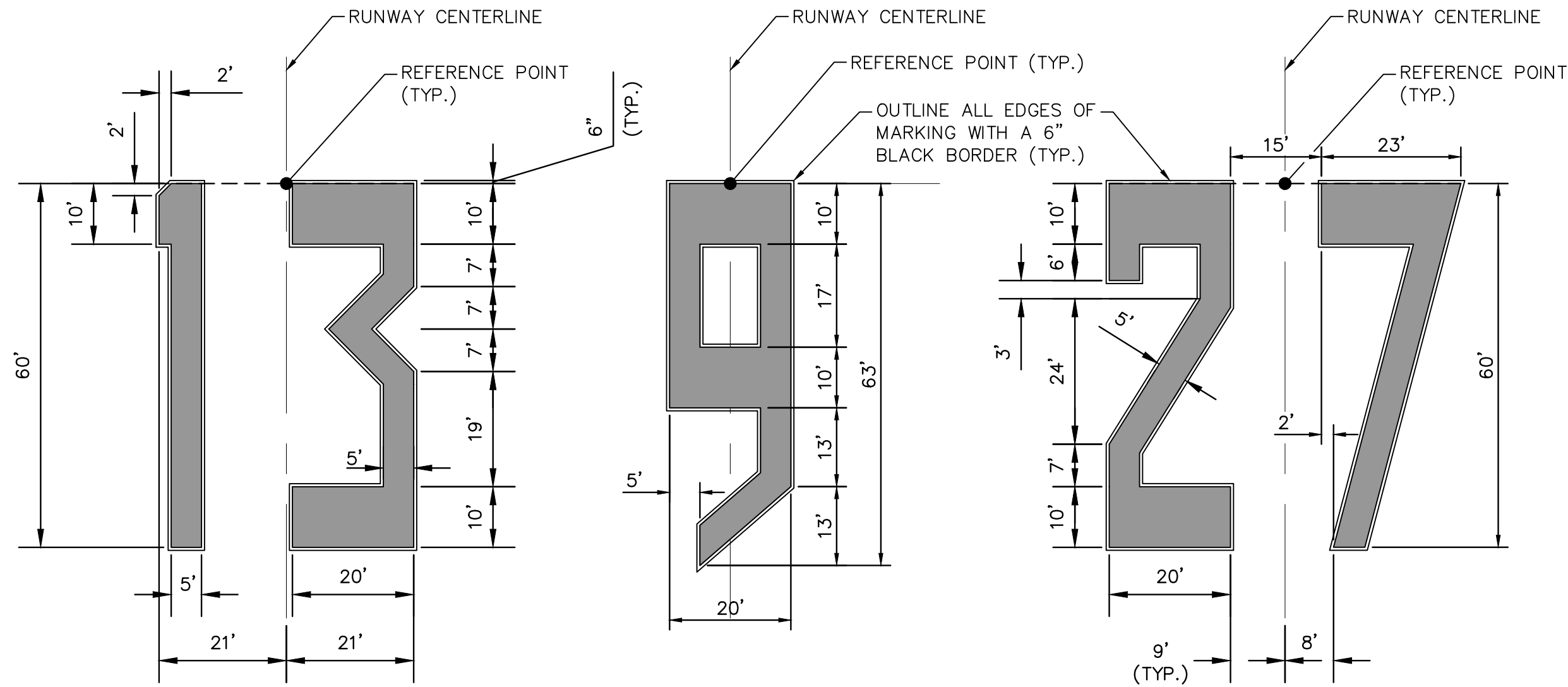
ENGINEER:
THOMAS F. O'DONNELL
Lic. No. 62476
DATE:

DRAWN BY: ALB
DATE: 06/07/2024
DESIGNED BY: KAS
CHECKED BY: TFO
FIELD BOOK:

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

NO.	DATE	BY	CHK'D	REVISIONS	DESCRIPTION

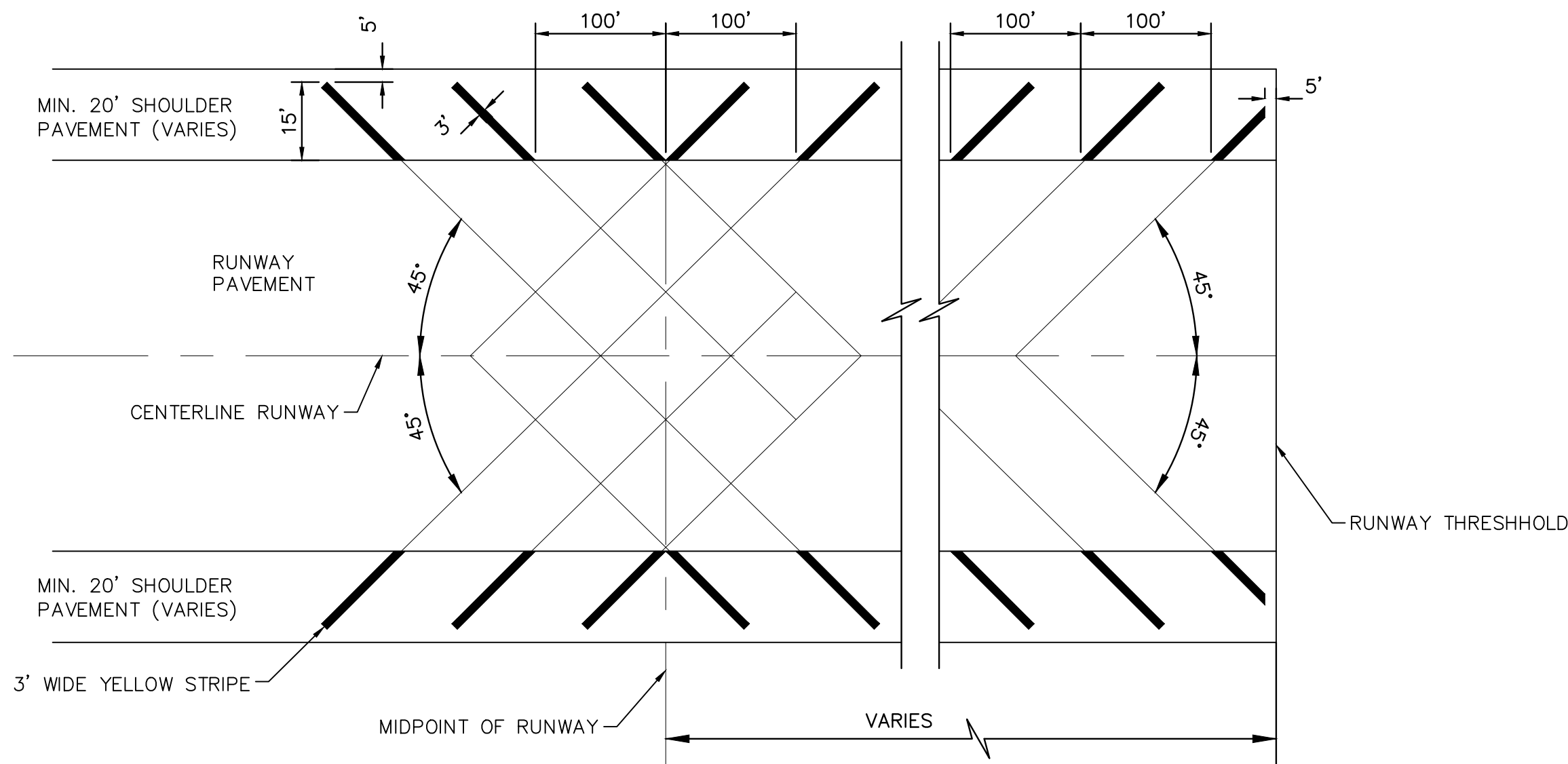
K:\FTL\AVIATION\044693151_FXE_RW_9-27_REHAB\CADD\PLANSHEETS\12764-MULTI-DETL.DWG



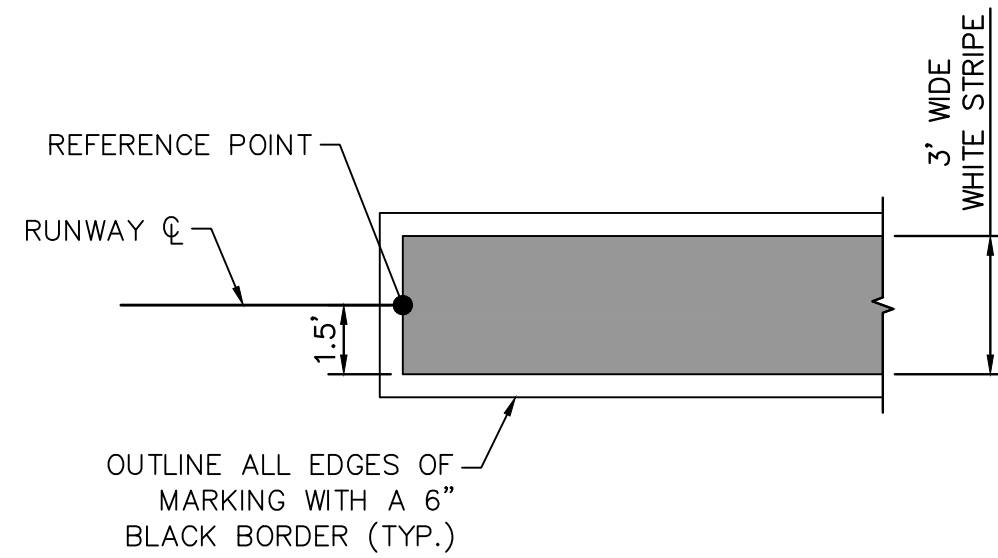
NOTES:

- ALL CHARACTERS HAVE THESE CHARACTERISTICS (UNLESS OTHERWISE SPECIFIED):
 - 60' HIGH
 - 20' WIDE
 - VERTICAL STROKE OF 5'
 - HORIZONTAL STROKE OF 10'
 - DIAGONAL STROKE OF 5'
- ALL NUMERALS ARE HORIZONTALLY SPACED 15' APART.
- SINGLE DIGITS MUST NOT BE PRECEDED BY A ZERO.
- SINGLE DESIGNATIONS ARE CENTERED ON THE RUNWAY PAVEMENT CENTERLINE. FOR DOUBLE DESIGNATIONS, THE CENTER OF THE OUTER EDGES OF THE TWO NUMERALS IS CENTERED ON THE RUNWAY PAVEMENT CENTERLINE.

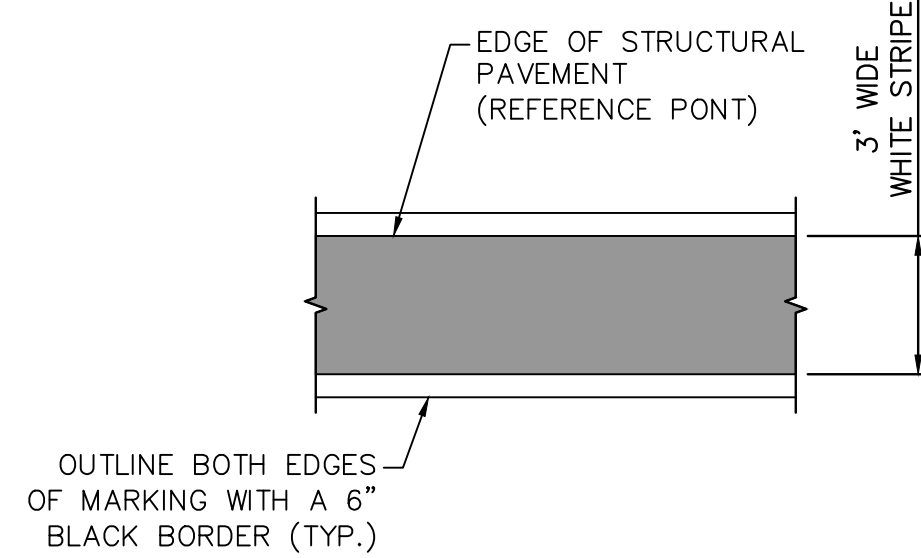
8 RUNWAY DESIGNATION MARKINGS
(WHITE IN COLOR WITH A 6" BLACK BORDER FOR ENHANCEMENT)
N.T.S.



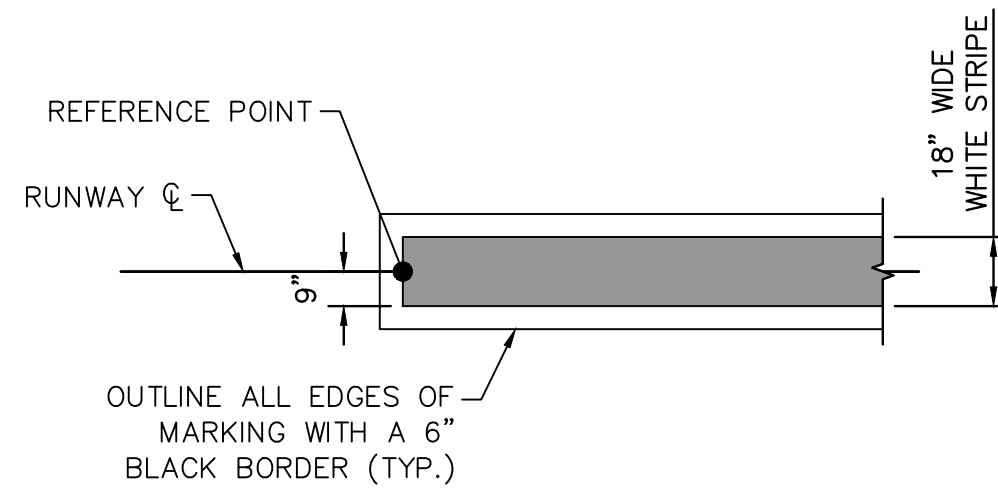
13 RUNWAY SHOULDER MARKINGS
(YELLOW IN COLOR)
N.T.S.



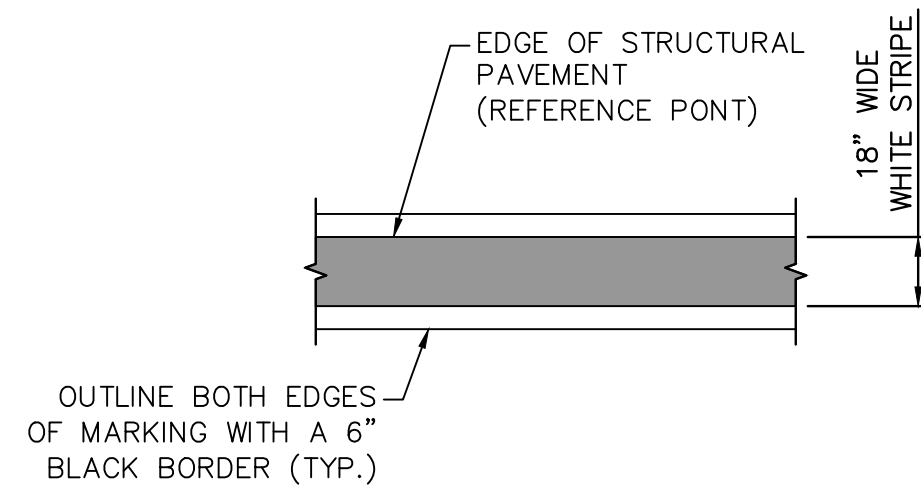
9 RUNWAY 9-27 CENTERLINE MARKING
(WHITE IN COLOR WITH A 6" BLACK BORDER FOR ENHANCEMENT)
N.T.S.



10 RUNWAY 9-27 SIDE STRIPE
(WHITE IN COLOR WITH A 6" BLACK BORDER FOR ENHANCEMENT)
N.T.S.



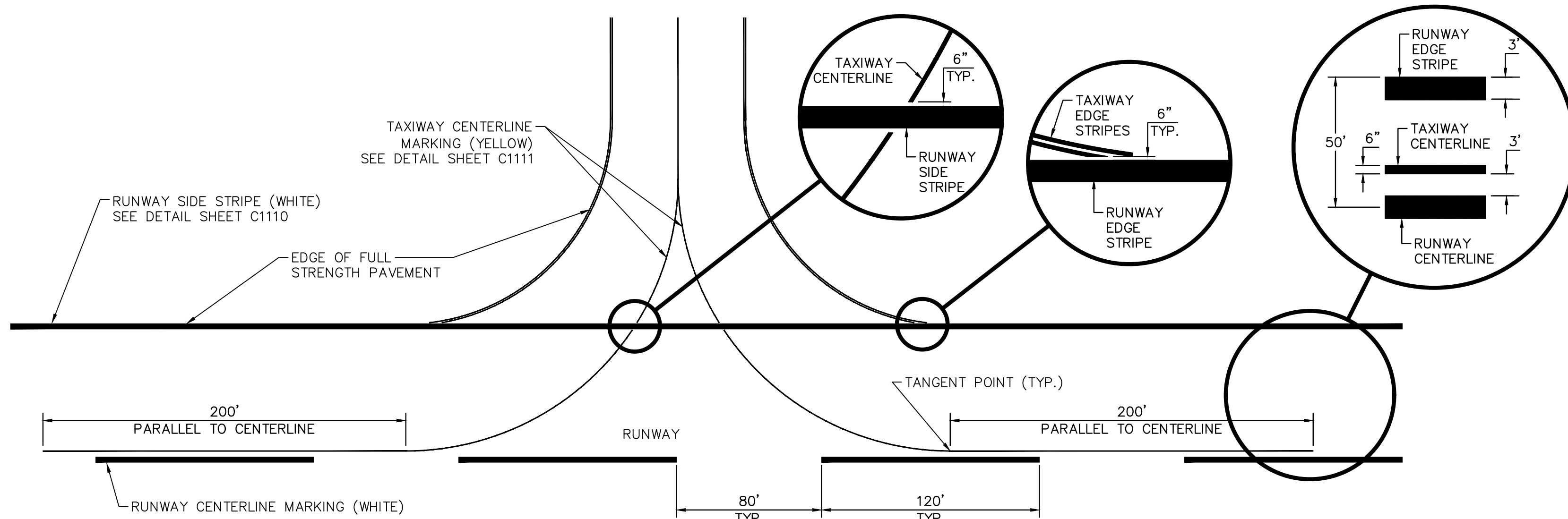
11 RUNWAY 13-31 CENTERLINE MARKING
(WHITE IN COLOR WITH A 6" BLACK BORDER FOR ENHANCEMENT)
N.T.S.



12 RUNWAY 13-31 SIDE STRIPE
(WHITE IN COLOR WITH A 6" BLACK BORDER FOR ENHANCEMENT)
N.T.S.

NOTE:

TO ACCOMMODATE VARYING RUNWAY LENGTHS, ALL ADJUSTMENTS TO THE UNIFORM PATTERN OF RUNWAY CENTERLINE STRIPES AND GAPS ARE MADE NEAR THE RUNWAY MIDPOINT (DEFINED AS THE DISTANCE BETWEEN THE TWO THRESHOLDS). UNDER SUCH CASES, REDUCE THE LENGTH OF BOTH STRIPES AND GAPS STARTING FROM MIDPOINT AND PROCEED TOWARD THE RUNWAY THRESHOLDS. REDUCED STRIPES MUST BE AT LEAST 80 FEET IN LENGTH, AND THE REDUCED GAPS MUST BE AT LEAST 40 FEET IN LENGTH. THE AFFECTED STRIPES AND GAPS WITHIN THE SECTION SHOULD SHOW A UNIFORM PATTERN. SEE MARKING PLANS FOR DIMENSIONS.



TYPICAL TAXIWAY AND RUNWAY MARKINGS AT INTERSECTION DETAIL
N.T.S.

DATE:	06/07/2024
DRAWN BY:	ALB
DESIGNED BY:	KAS
CHECKED BY:	TFO
SCALE:	AS NOTED
FIELD BOOK:	

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

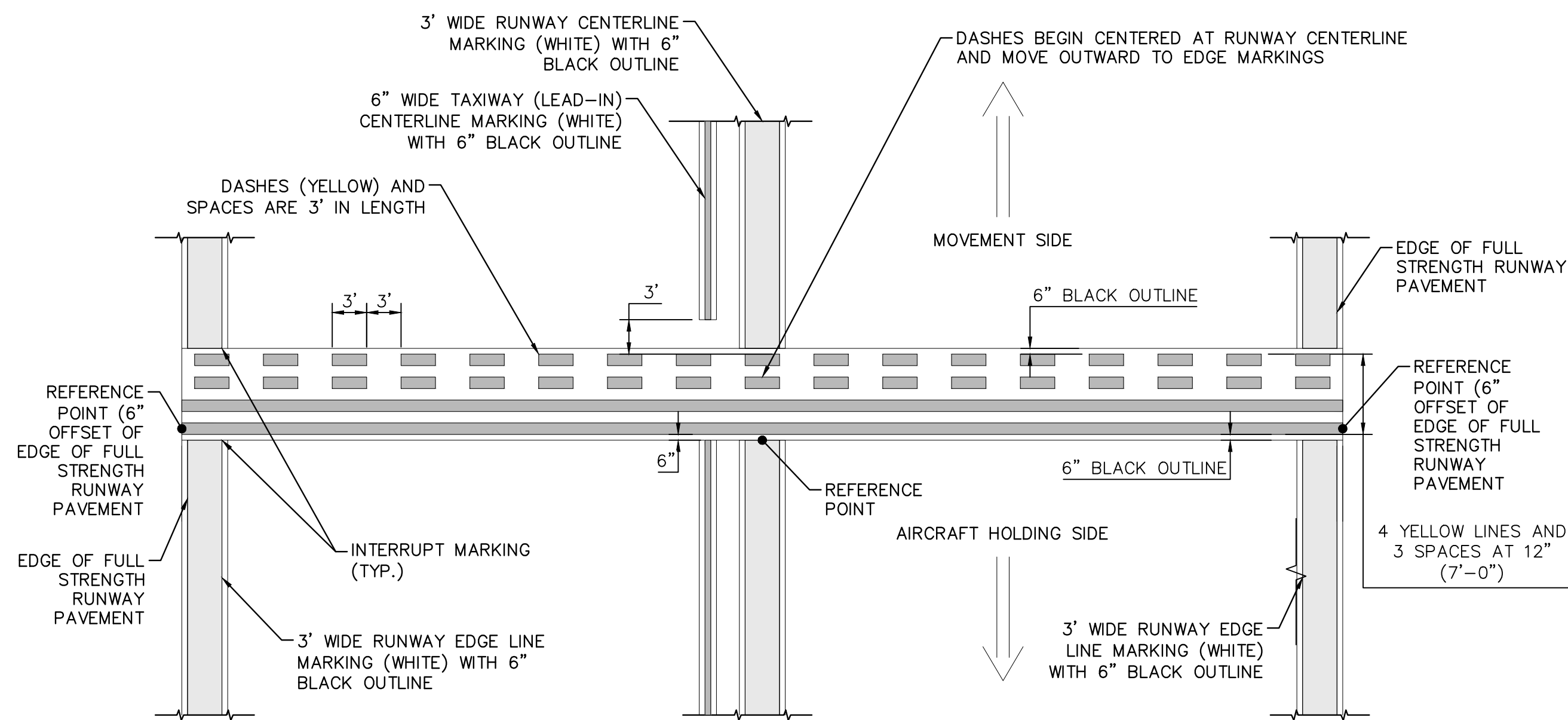
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT MARKING DETAILS

SHEET NO.	OF
C1110	
TOTAL:	110
CAD FILE:	12764-MULTI-DETL
DRAWING FILE NO.	

BID SET

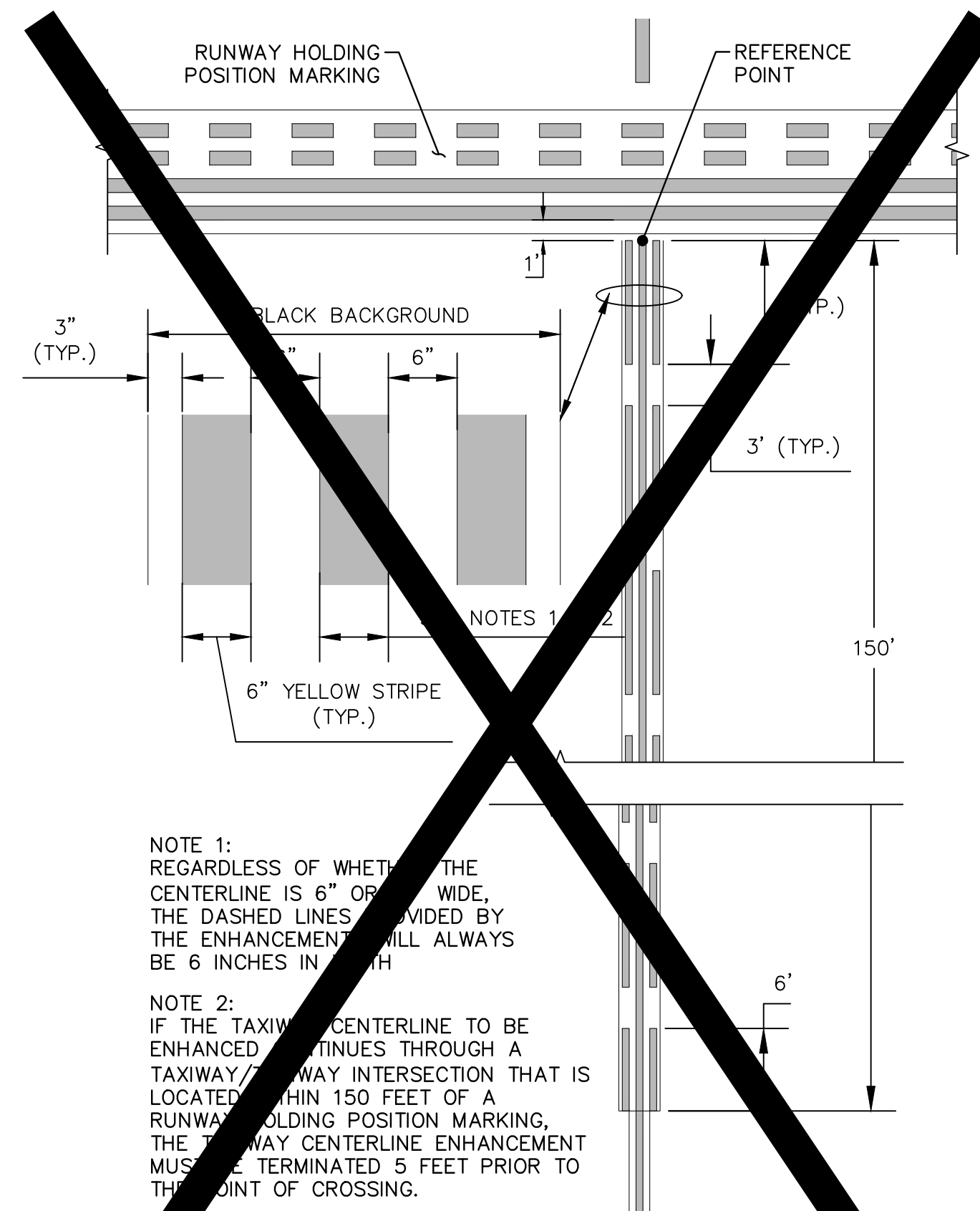
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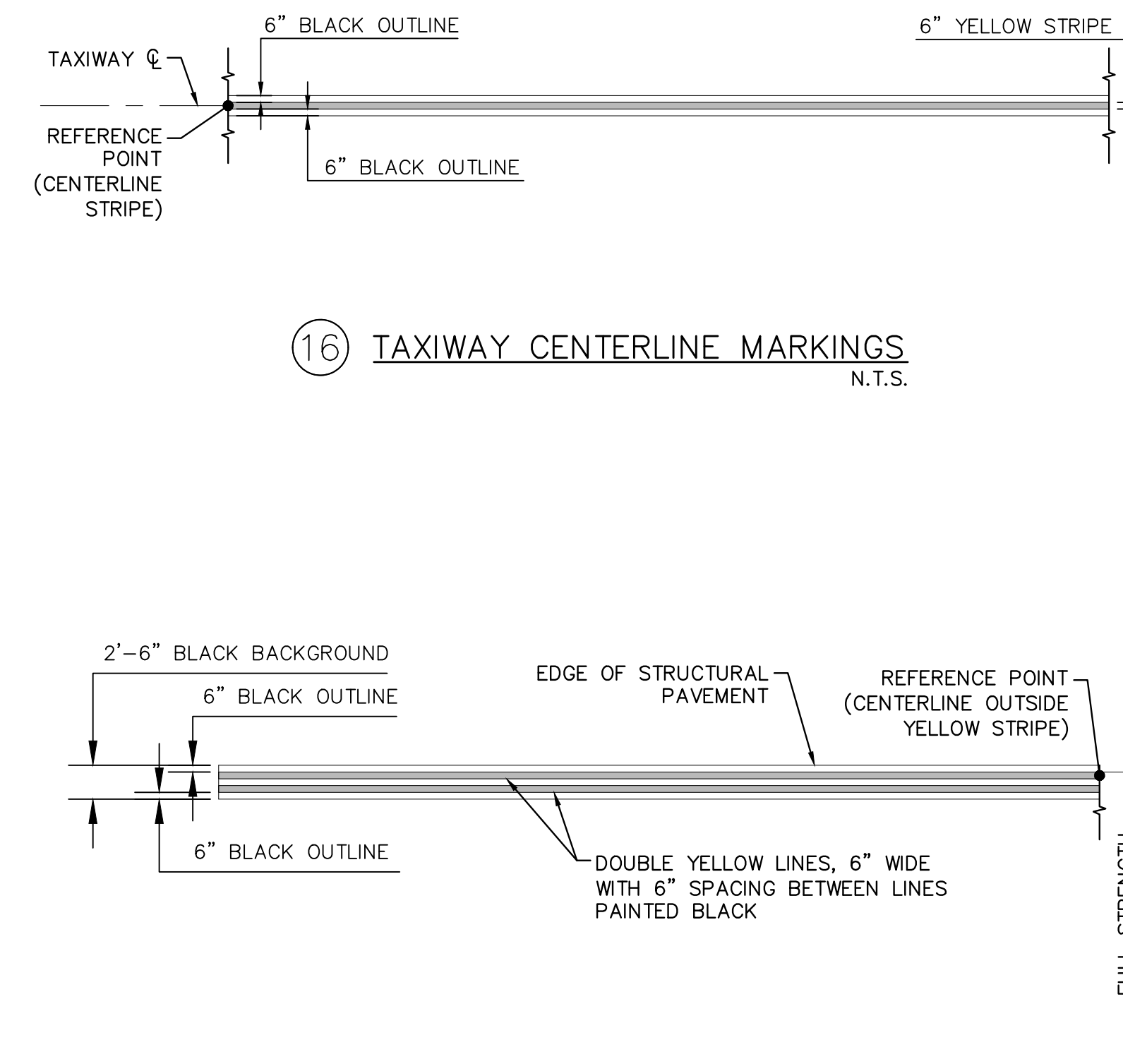
NOTES:

1. THE MARKING IS INSTALLED PERPENDICULAR TO THE RUNWAY CENTERLINE AND INTERRUPTS ALL RUNWAY MARKINGS EXCEPT FOR THE RUNWAY DESIGNATION MARKING.
2. THE RUNWAY HOLDING POSITION MARKING EXTENDS ACROSS THE FULL WIDTH OF THE RUNWAY BUT NOT ONTO THE RUNWAY SHOULDERS OR ONTO ANY INTERSECTING TAXIWAY FILLET.

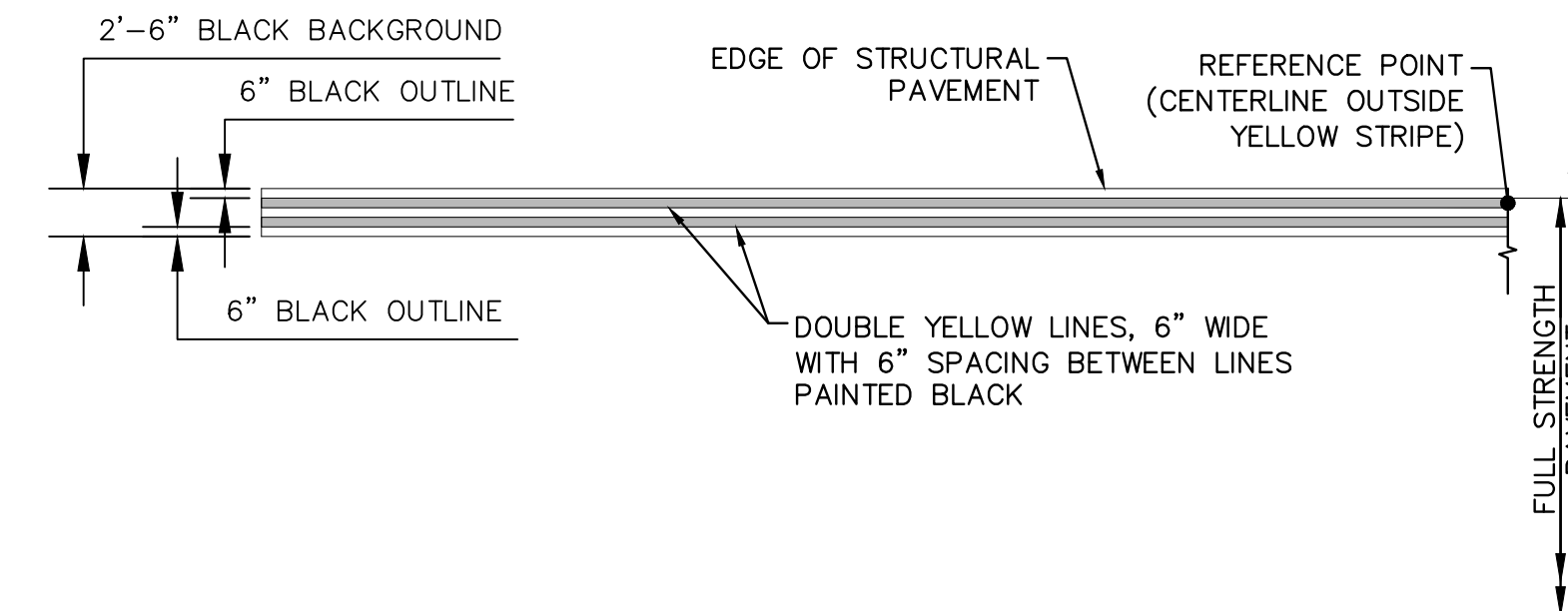
14 LAND AND HOLD SHORT OPERATIONS (LASHO) MARKING
RUNWAY HOLDING POSITION MARKINGS – PATTERN A
N.T.S.



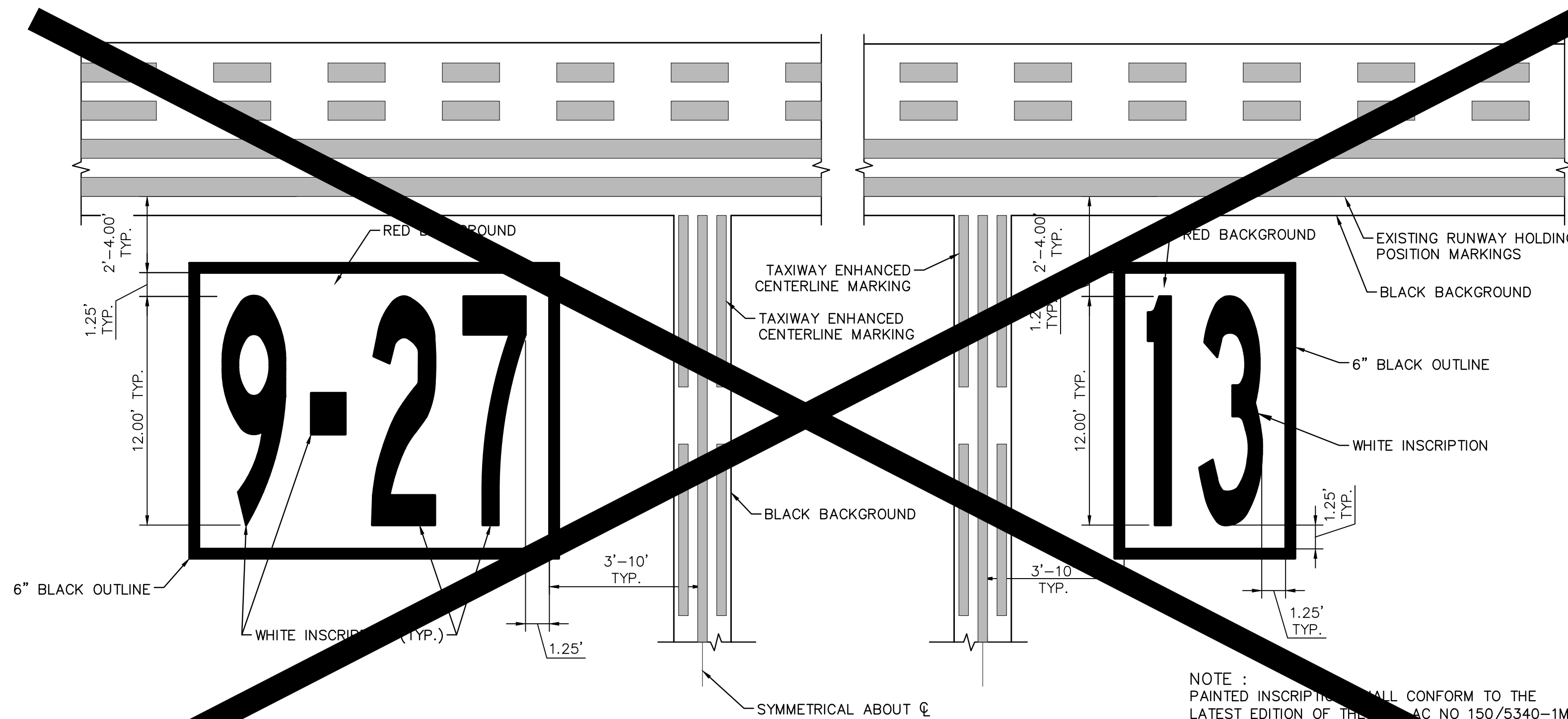
15 ENHANCED TAXIWAY CENTERLINE MARKING
N.T.S.



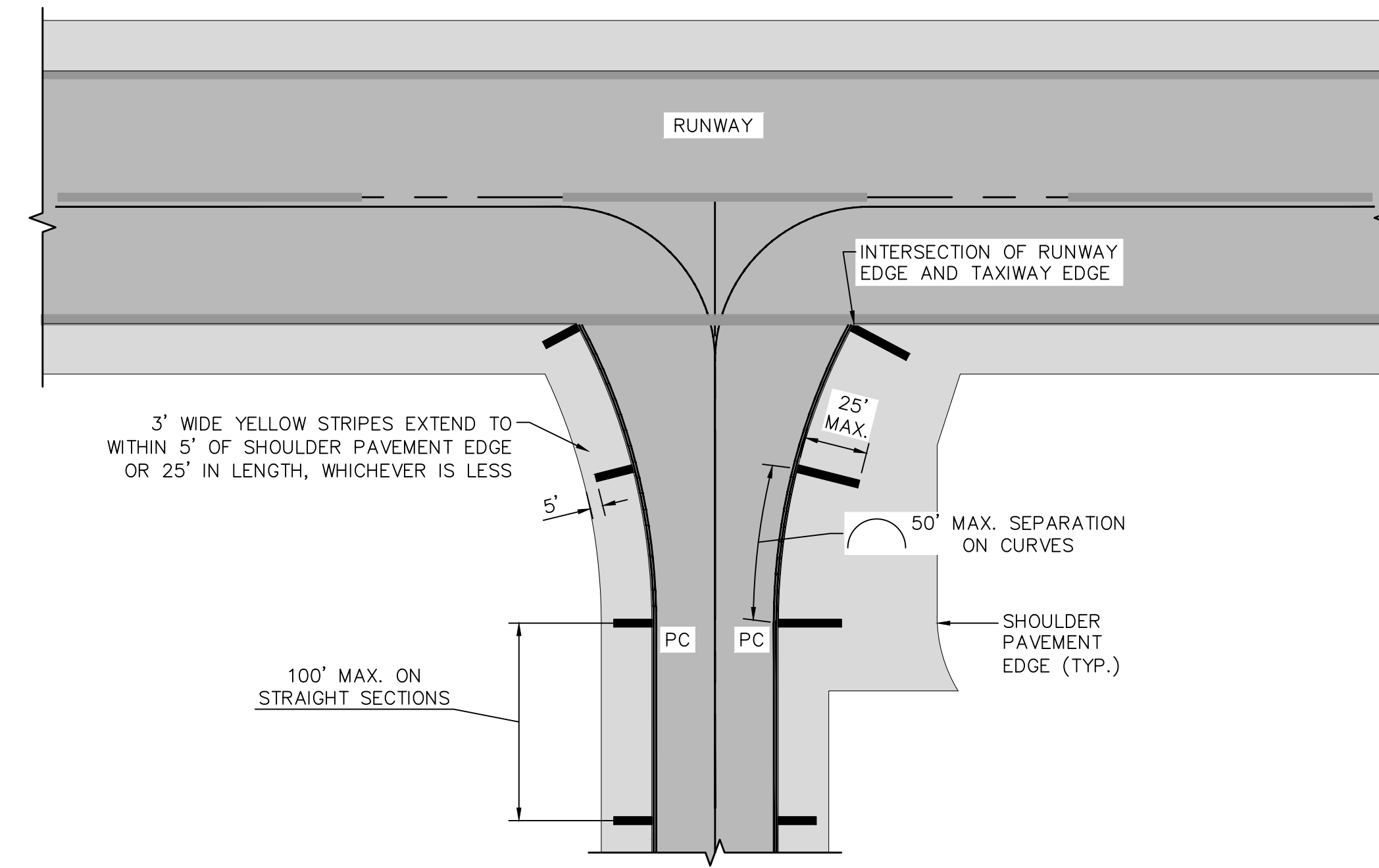
16 TAXIWAY CENTERLINE MARKINGS
N.T.S.



17 TAXIWAY EDGE MARKINGS, CONTINUOUS
N.T.S.



18 SURFACE PAINTED HOLDING POSITION SIGN LOCATION DETAILS
N.T.S.



19 TAXIWAY SHOULDER MARKINGS
N.T.S.

DATE:	06/07/2024
DRAWN BY:	ALB
DESIGNED BY:	SCALE:
CHECKED BY:	KAS
FIELD BOOK:	AS NOTED
	TFO

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

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PAVEMENT MARKING DETAILS

SHEET NO.	OF
C1111	
TOTAL:	110
CAD FILE:	12764-MULTI-DETL
DRAWING FILE NO.	

BID SET

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GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL COMPLETE ALL ITEMS ON THE FOLLOWING ELECTRICAL SHEETS:
- 1.1. CONTRACTOR SHALL DEMOLISH THE EXISTING AIRFIELD LIGHTING AND GUIDANCE SIGNAGE SYSTEMS, COMPLETE, AS SHOWN ON PLANS.

1.2. CONTRACTOR SHALL PROVIDE AND INSTALL AIRFIELD LIGHTING AND GUIDANCE SIGNAGE SYSTEMS, COMPLETE IN PLACE, 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:

8.1. CITY OF FORT LAUDERDALE PROJECT MANAGER – KHANT MYAT, P.E. – 954–828–5061
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, GUIDANCE 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 BOXES, 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 RESIDENT PROJECT REPRESENTATIVE 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 RESIDENT PROJECT REPRESENTATIVE INFORMED OF HIS 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 RESIDENT PROJECT REPRESENTATIVE.
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 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 HODV BARS. 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 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 TAXIWAY EDGE LIGHTS, SIGNAGE AND RUNWAY EDGE LIGHTS, 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 DRAWINGS 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 BOXES, LIGHT BASES, AND OTHER APPROVED LOCATIONS USING L–823 CONNECTORS.
8. CONTRACTOR SHALL IDENTIFY ALL CABLES IN AFFECTED MANHOLES 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.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.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL CABLE ROUTING AND CIRCUIT DESIGNATIONS ON THE RECORD DRAWINGS.
10. 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.
11. CONTRACTOR SHALL PROVIDE ALL CONNECTOR KITS, TESTING, STAINLESS TAGS, AND ALL INCIDENTALS THAT WILL ALLOW FOR QUALITY ASSURANCE OF SUCCESSFULLY DISCONNECTING AND RECONNECTING CIRCUITS.
12. COLOR CODE ALL PHASE WIRING BY THE USE OF COLORED WIRE INSULATION AND/OR COLORED TAPE. WHERE TAPE IS USED, THE WIRE INSULATION SHALL BE BLACK. BLACK, RED AND BLUE SHALL BE USED FOR THREE–PHASE, 120/208V SYSTEMS. NEUTRAL CONDUCTORS, SIZE NO. 6 AWG OR SMALLER, SHALL BE IDENTIFIED BY A CONTINUOUS WHITE OR NATURAL GRAY OUTER FINISH ALONG ITS ENTIRE LENGTH. NEUTRAL CONDUCTORS LARGER THAN NO. 6 AWG SHALL BE IDENTIFIED EITHER BE CONTINUOUS WHITE OR NATURAL GRAY OUTER FINISH ALONG ITS ENTIRE LENGTH OR BY THE USE OF WHITE TAPE AT ITS TERMINATIONS AND INSIDE ACCESSIBLE WIREWAYS.
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, GROUND PENETRATING RADAR 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 RESIDENT PROJECT REPRESENTATIVE 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. 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 AND INSTALL NEW STAINLESS STEEL (SS) ID TAGS AS REQUIRED. COST SHALL BE INCIDENTAL TO THE LINE ITEMS FOR INSTALLATION/INTERCEPTION.
20. ALL BOLTS FOR LIGHT FIXTURES, SIGNS AND JUNCTION CANS SHALL BE FLUOROPOLYMER METALLIC–CERAMIC COATED SAE J429 GRADE 5 CARBON STEEL BOLTS PER FAA ENGINEERING BRIEF 84A AND MEET FAA REQUIREMENTS. BOLT COATING PREFERENCE SHALL BE ORANGE. THE BASE CAN COVER MOUNTING BOLTS SHALL EXTEND THRU THE BASE CAN MOUNTING FLANGE INTO THE BASE CAN A MINIMUM OF 0.75 INCH BEYOND MACHINED THREAD SYSTEM. THE BOLTS SHALL HAVE ENOUGH THREAD LENGTH SO THEY DO NOT SHOULDER OUT BEFORE THE COVER IS SECURELY TIGHTENED.
21. CONTRACTOR TO USE LOCITTE LB8023 MARINE GRADE ANTI–SEIZE OR APPROVED EQUAL ON COUPLINGS AND ANY APPLICATION WHERE ANTI–SEIZE IS REQUIRED. ANTI–SEIZE SHALL NOT BE USED WITH COATED CARBON STEEL BOLTS.
22. UPON A COMPLETION OF THE INSTALLATION AND PRIOR TO A SUBSTANTIAL COMPLETION INSPECTION THE CONTRACTOR SHALL CLEAN AND VACUUM ALL JUNCTION/ BASE CANS, NEW AND EXISTING,THAT WERE INSTALLED/ AFFECTED IN THE PROJECT. CANS SHALL BE LEFT FREE OF ALL TRASH, DIRT AND DEBRIS.
23. ALL COSTS ASSOCIATED WITH THE CIRCUIT IDENTIFICATION AS SHOWN IN THE DRAWINGS, INCLUDING BUT NOT LIMITED TO STAINLESS STEEL CIRCUIT TAGS, COLORED TAPE/HEAT SHRINK, CONCRETE DUCT MARKERS, JUNCTION CAN PLAZA IDENTIFICATION AND FIXTURE MARKER TAGS SHALL BE INCLUSIVE TO THE PAY ITEM FOR THE ITEM BEING INSTALLED NO SEPARATE PAYMENT WILL BE MADE.
24. AFTER LEVELING, THE CONTRACTOR SHALL ADJUST THE ASYMMETRIC LENS OF EACH OPTICAL SYSTEM SO THAT THE TWO CONCENTRATED BEAMS OF LIGHT SHINE UP AND DOWN THE RUNWAY OR TAXIWAY AND ARE "TOED IN" SYMMETRICALLY TOWARD THE CENTERLINE OF RUNWAY OR TAXIWAY. FINAL ADJUSTMENT OF ASYMMETRIC LENSES SHALL BE MADE AT NIGHT AND SHALL BE TO THE SATISFACTION OF THE RPR.
25. THE FINISHED PAVEMENT SURFACE SHALL BE PROTECTED FROM FOREIGN SUBSTANCES WHICH COULD CAUSE STAINING, I.E., OIL, P–605, JOINT SEALING FILLER ETC. THE CONTRACTOR SHALL IMMEDIATELY CLEAN ALL SPILLS AND CORRECT/CLEAN ANY STAINED SURFACES AT THE CONTRACTOR'S EXPENSE.
26. SODDING OF DISTURBED AREAS SHALL BE AS SPECIFIED IN SPECIFICATION T–904 SODDING. COST OF SODDING SHALL BE INCLUSIVE TO THE ELECTRICAL PAY ITEM INSTALLED.

Kimley-Horn
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BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL GENERAL NOTES

SHEET NO.	OF
E001	
TOTAL:	110
CAD FILE:	12764–E001–NOTE
DRAWING FILE NO.	

REVISITONS		DESCRIPTION	
NO.	DATE	BY	CHKD

CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY: MFB

DATE: 6/7/24

DESIGNED BY: ALC

SCALE: AS NOTED

CHECKED BY: JWK

FIELD BOOK: 33301

ENGINEER: AMY CHAMPAGNE–BAKER
REG. NO: 73735
DATE:

TEL: 561–640–0825
FAX:

C:\USERS\ACHAM\QEE DROPBOX\QUANTUM PROJECTS\KHA KIMLEY HORN\KHA2401 FVE RW 9-27 REHAB\DWG\BID\12764-E002-LEGD.DWG

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 PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS.
	NEW L-861T(L), LED, MITL, ELEVATED T/W EDGE LIGHT MOUNTED ON AN EXISTING L-867 BASE CAN WITH A NEW EXTENSION RING IN EXISTING 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 NEW TELESCOPIC L-867 BASE CAN INSTALLED IN EXISTING PAVEMENT WITH PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS.
	EXISTING MALS ELEVATED THRESHOLD LIGHT MOUNTED ON AN EXISTING L-867 BASE CAN WITH A NEW L-867 EXTENSION RING TO MATCH PROPOSED GRADES.
	NEW L-862(L),LED LAMP, HIRL, ELEVATED RUNWAY EDGE LIGHT MOUNTED ON A EXISTING L-867 BASE CAN WITH A NEW EXTENSION RING NEW BASE PLATE AND PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS. W Y = WHITE/YELLOW LENS W W = WHITE/WHITE R G - RED/GREEN
	NEW L-850C, LED, STYLE 3, BI-DIRECTIONAL, HIRL FLUSH MOUNT RUNWAY EDGE LIGHT MOUNTED ON AN EXISTING 2 PIECE L-868 BASE CAN. CONTRACTOR SHALL PROVIDE AND INSTALL EXTENSION RINGS, SPACERS (W/DAM RING) WITH PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS. W G = WHITE/GREEN LENS W Y = WHITE /YELLOW
	EXISTING ELEVATED RUNWAY EDGE LIGHT MOUNTED ON A EXISTING L-867 BASE CAN WITH A NEW EXTENSION RING AND RECONNECT CIRCUIT. W W = WHITE/WHITE R G - RED/GREEN W Y= WHITE YELLOW
	EXISTING FLUSH MOUNT RUNWAY EDGE LIGHT MOUNTED ON AN EXISTING 2 PIECE L-868 BASE CAN. CONTRACTOR SHALL PROVIDE AND INSTALL NEW TOP SECTION, SPACERS (W/DAM RING) AND RECONNECT CIRCUIT. W G = WHITE/GREEN LENS W Y = WHITE /YELLOW
	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 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.
	RELOCATED L-858(L), LED, SIZE 1 AIRFIELD GUIDANCE SIGN ON NEW CONCRETE BASE INSTALLED IN EARTH. REFER TO LIGHTED SIGN SCHEDULES FOR ADDITIONAL INFORMATION. # = SIGN NUMBER
	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" - 1 INDICATES NUMBER OF CONDUITS, 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
	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
	EXISTING ELEVATED TAXIWAY EDGE LIGHT
	EXISTING RUNWAY EDGE LIGHT
	EXISTING INPAVEMENT FLUSH MOUNTED RUNWAY GUARD LIGHT
	EXISTING ELEVATED RUNWAY GUARD LIGHT
	EXISTING AIRFIELD GUIDANCE SIGN # = SIGN NUMBER
	EXISTING FAA MALS THRESHOLD LIGHT
	EXISTING JUNCTION CAN
	EXISTING WINDCONE
	EXISTING L-867 JUNCTION CAN PLAZA.
	EXISTING CONDUIT SYSTEM
	EXISTING AIRFIELD LIGHTING DUCTBANK
	EXISTING FAA CABLE/CONDUIT
	EXISTING FPL CABLE/CONDUIT
	EXISTING COMMUNICATIONS CONDUIT/DUCTBANK
	TAXIWAY SAFETY AREA
	RUNWAY SAFETY AREA
	TAXIWAY OBJECT FREE AREA

NOTE: SYMBOL SIZES ARE NOT SHOWN TO SCALE FOR CLARITY ON THE PLAN SHEETS.

DEMOLITION NOTES

- [1] CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF THE EXISTING ELEVATED EDGE LIGHT, CONDUCTORS AND TRANSFORMER THE EXISTING BASE CAN SHALL REMAIN. CONTRACTOR SHALL DRILL AND TAP EXISTING BOLT HOLES TO REMOVE BROKEN BOLTS AND PROVIDE AND INSTALL A TEMPORARY COVER ON EXISTING BASE CAN DURING CONSTRUCTION. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. THE LINE ITEM COST SHALL INCLUDE DEWATERING EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLE AND SHALL BE INCLUSIVE OF THE INSTALLATION OF THE NEW FIXTURE ON ADJUSTED BASE CAN.
- [2] CONTRACTOR SHALL DISCONNECT THE EXISTING CIRCUITS AND REMOVE CONDUCTORS BACK TO THE LAST UNAFFECTED LOCATION AND SHALL REMOVE AND DISPOSE OF THE EXISTING CONDUCTORS, TRANSFORMER AND BASE CAN. CONTRACTOR SHALL BACKFILL AND RESTORE SOD ACCORDINGLY. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATION AT ALL TIMES DURING CONSTRUCTION. SEE THE PHASING PLANS FOR SEQUENCING OF WORK. THE DEWATERING OF THE EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES SHALL BE INCLUDED IN THE LINE ITEM COST FOR REMOVAL OF A BASE CAN.
- [3] CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF THE EXISTING FLUSH EDGE LIGHT, CORE AND REMOVE TOP SECTION, CONDUCTORS AND TRANSFORMER THE EXISTING BASE CAN SHALL REMAIN. CONTRACTOR SHALL DRILL AND TAP EXISTING BOLT HOLES TO REMOVE BROKEN BOLTS. PROVIDE AND INSTALL A TEMPORARY COVER ON EXISTING BASE CAN DURING CONSTRUCTION. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. THE LINE ITEM COST SHALL INCLUDE DEWATERING EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES.
- [4] CONTRACTOR SHALL DISCONNECT, REMOVE AND STORE THE EXISTING FAA MALS THRESHOLD LIGHT AND PROTECT THE EXISTING CONDUCTORS AND TRANSFORMER THE EXISTING BASE CAN SHALL REMAIN. CONTRACTOR SHALL DRILL AND TAP EXISTING BOLT HOLES TO REMOVE BROKEN BOLTS AND SHALL PROVIDE AND INSTALL A TEMPORARY COVER ON EXISTING BASE CAN DURING CONSTRUCTION. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. THE LINE ITEM COST SHALL INCLUDE DEWATERING EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES.
- [5] CONTRACTOR SHALL REMOVE THE EXISTING EDGE LIGHT/JUNCTION CAN FROM THE EXISTING PAVEMENT, DISCONNECT THE EXISTING CIRCUITS AND REMOVE CONDUCTORS BACK TO THE LAST UNAFFECTED LOCATION. CORE DRILL, REMOVE AND DISPOSE OF THE EXISTING CONDUCTORS, TRANSFORMER, BASE CAN AND FIXTURE. BACKFILL WITH CONCRETE AFTER REMOVAL OF BASE CAN. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATION 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 MANHOLE.
- [6] CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF THE EXISTING ELEVATED EDGE LIGHT, CONDUCTORS AND TRANSFORMER THE EXISTING BASE CAN SHALL REMAIN. CONTRACTOR SHALL DRILL AND TAP EXISTING BOLT HOLES TO REMOVE BROKEN BOLTS AND PROVIDE AND INSTALL A COVER ON EXISTING BASE CAN AND ABANDON IN PLACE. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. THE LINE ITEM COST SHALL INCLUDE DEWATERING EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLE.
- [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 CONDUCTORS TO REMOVE THE SIGN FROM THE CIRCUIT. REMOVE AND DISPOSE OF THE EXISTING CONCRETE BASE, TRANSFORMER, CONDUITS AND CABLES AND RELOCATE SIGN TO THE NEW LOCATION AS SHOWN ON PLANS. BACKFILL AND RESTORE SOD 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.
- [8] CONTRACTOR SHALL SURVEY LOCATION OF EXISTING BASE CAN AND PROTECT DURING THE MILLING AND PAVING OPERATION. CONTRACTOR SHALL CORE DRILL PAVEMENT OVERLAY AND PROVIDE AND INSTALL L-867 EXTENSION RING ON EXISTING BASE CAN IN PAVED SHOULDER.
- [9] CONTRACTOR SHALL SAWCUT/CORE AND REMOVE EXISTING ABANDONED SIGN PAD/SIGN JUNCTION CAN FROM SHOULDER PAVEMENT AND BACKFILL WITH CONCRETE ACCORDINGLY.
- [10] CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF EXISTING CIRCUIT CONDUCTORS. THE COST SHALL INCLUDE DEWATERING EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES AND SHALL BE INCLUSIVE TO THE LINE ITEM FOR CONDUCTOR INSTALLATION.

INSTALLATION NOTES:

- [1] CONTRACTOR SHALL HAND EXCAVATE, LOCATE AND INTERCEPT EXISTING CONDUIT SYSTEM AND EXTEND 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.
- [2] 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.
- [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.

CIRCUIT ID:	TYPE OF CABLE	CABLE JACKET COLOR	CABLE TAPE COLOR
9W = RUNWAY 9-27 WEST CIRCUIT	#8, L-824, 5KV CABLE	BLACK	RED
9E = RUNWAY 9-27 EAST CIRCUIT	#8, L-824, 5KV CABLE	BLACK	RED
A = TAXIWAY ALPHA CIRCUIT	#8, L-824, 5KV CABLE	BLACK	PINK

NOTE: PROVIDE AND INSTALL COLORED PHASE TAPE (3M ELECTRICAL VINYL) ON CABLES LOCATED IN EACH BASE CAN/ JUNCTION CAN/ MANHOLE. COLOR SHALL BE AS NOTED IN THE SCHEDULE ABOVE (CABLE ID COLOR). PROVIDE 1/2" WIDE TAPE WITH A MINIMUM OF 4 LAPS. THERE SHALL BE A MINIMUM OF ONE COLORED ID TAPE PER CABLE WHEN NO CONNECTOR KITS ARE PRESENT. WHEN CONNECTOR KITS ARE PRESENT, THERE SHALL BE ONE COLORED ID TAPE ON EACH CABLE END.

Kimley-Horn
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SCALE:
ALC
AS NOTED
CHECKED BY:
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FIELD BOOK:

DATE:
6/7/24

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHKD	DESCRIPTION

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL LEGEND AND NOTES

SHEET NO.
E002

OF
110

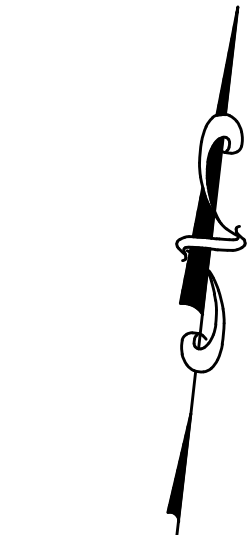
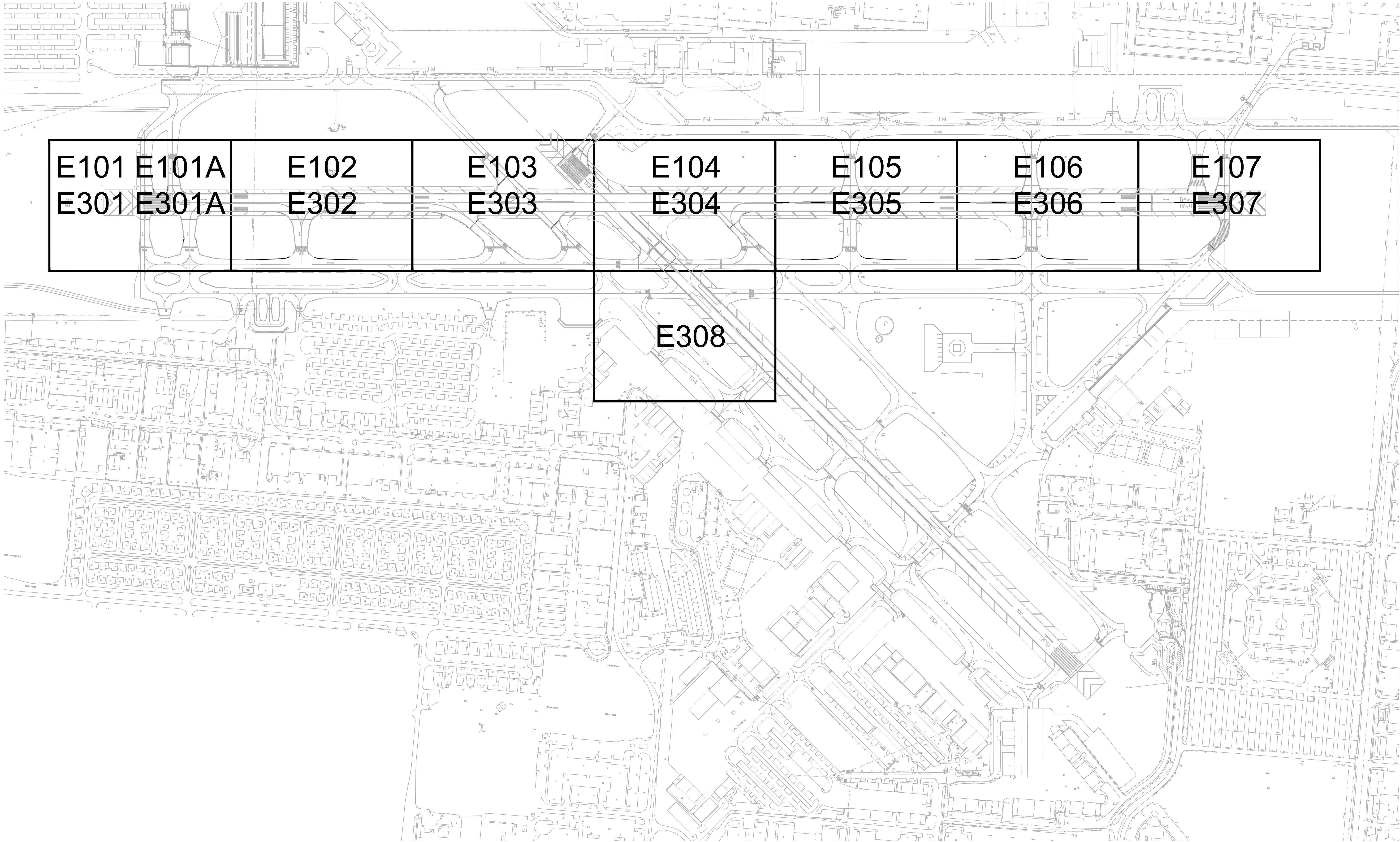
TOTAL:

CAD FILE:
12764-E002-LEGD

DRAWING FILE NO.

CAM #24-0854
Exhibit 1B
Page 273 of 417

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BY SCALE: AS NOTED
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 # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL KEY MAP

SHEET NO. E003 OF 110

TOTAL: 110
CAD FILE: 12764-E003-KMAP
DRAWING FILE NO.

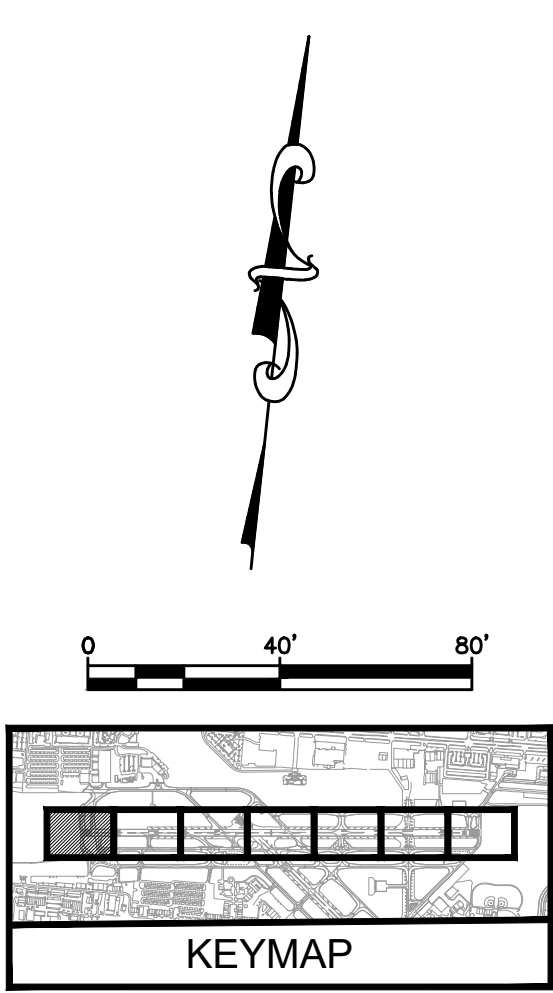
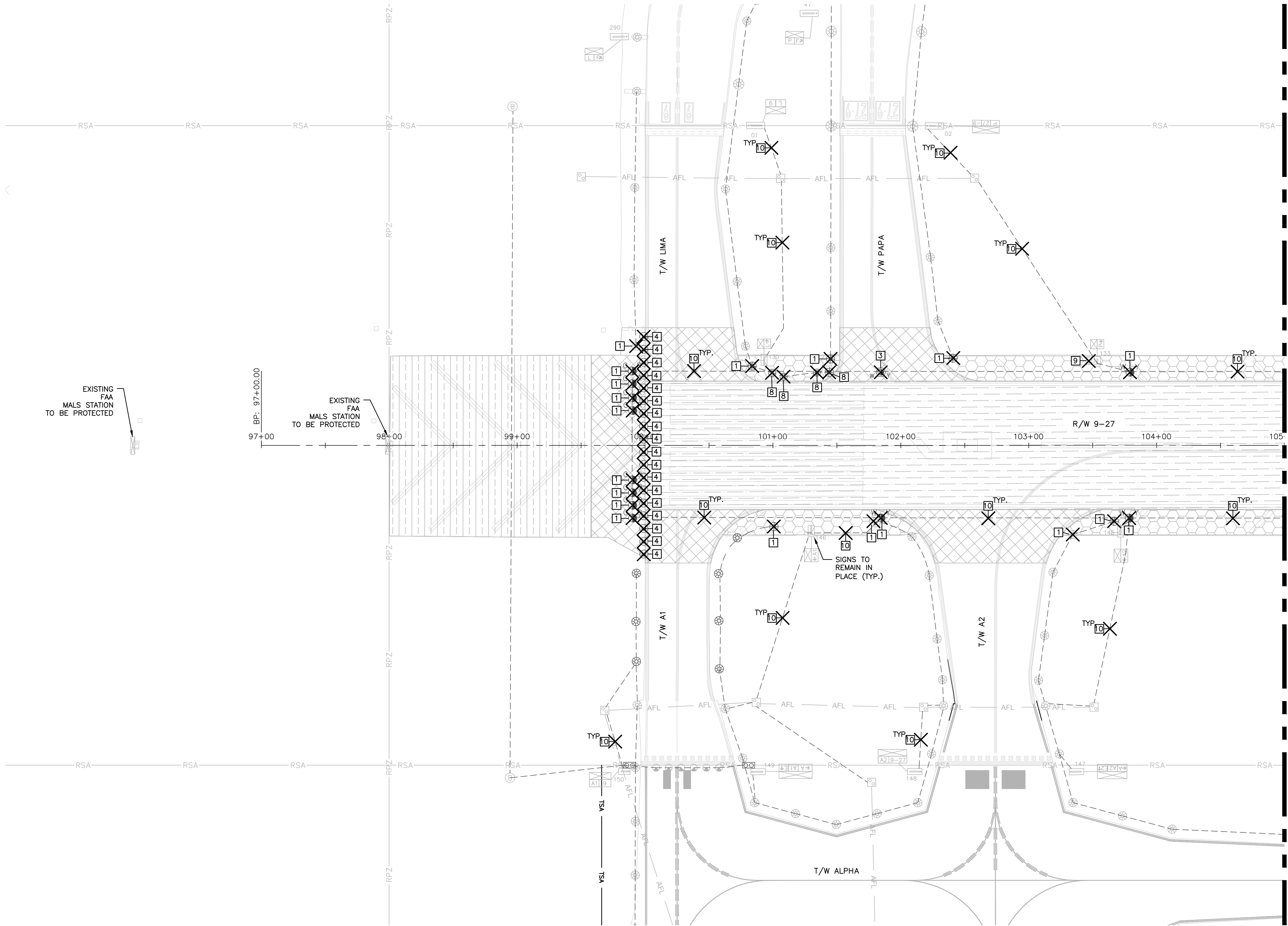
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CIVIL HATCH LEGEND

- CONSTRUCT RUNWAY OVERLAY
- CONSTRUCT RUNWAY SHOULDER OVERLAY TRANSITION
- CONSTRUCT RUNWAY BLAST PAD OVERLAY
- CONSTRUCT TAXIWAY OVERLAY
- CONSTRUCT OVERLAY TRANSITION
- CONSTRUCT TAXIWAY STABILIZED SUBGRADE (P-154) SHOULDER. SOD 20' ADJACENT TO PAVEMENT EDGE.

NOTES:

- SEE SHEET E002 FOR ELECTRICAL DEMOLITION NOTES DESCRIPTIONS.



WARNING!!!
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CHECKED BY: JWK
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FAX:

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHKD

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL DEMOLITION PLAN

SHEET NO. **E101** OF
TOTAL: 110
CAD FILE:
12764-MULTI-ELEC1
DRAWING FILE NO.

BID SET

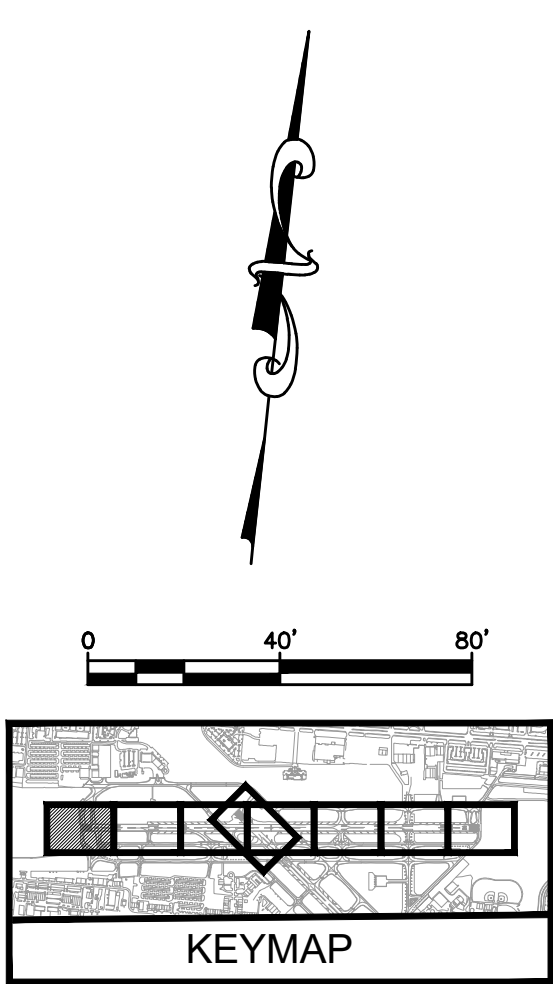
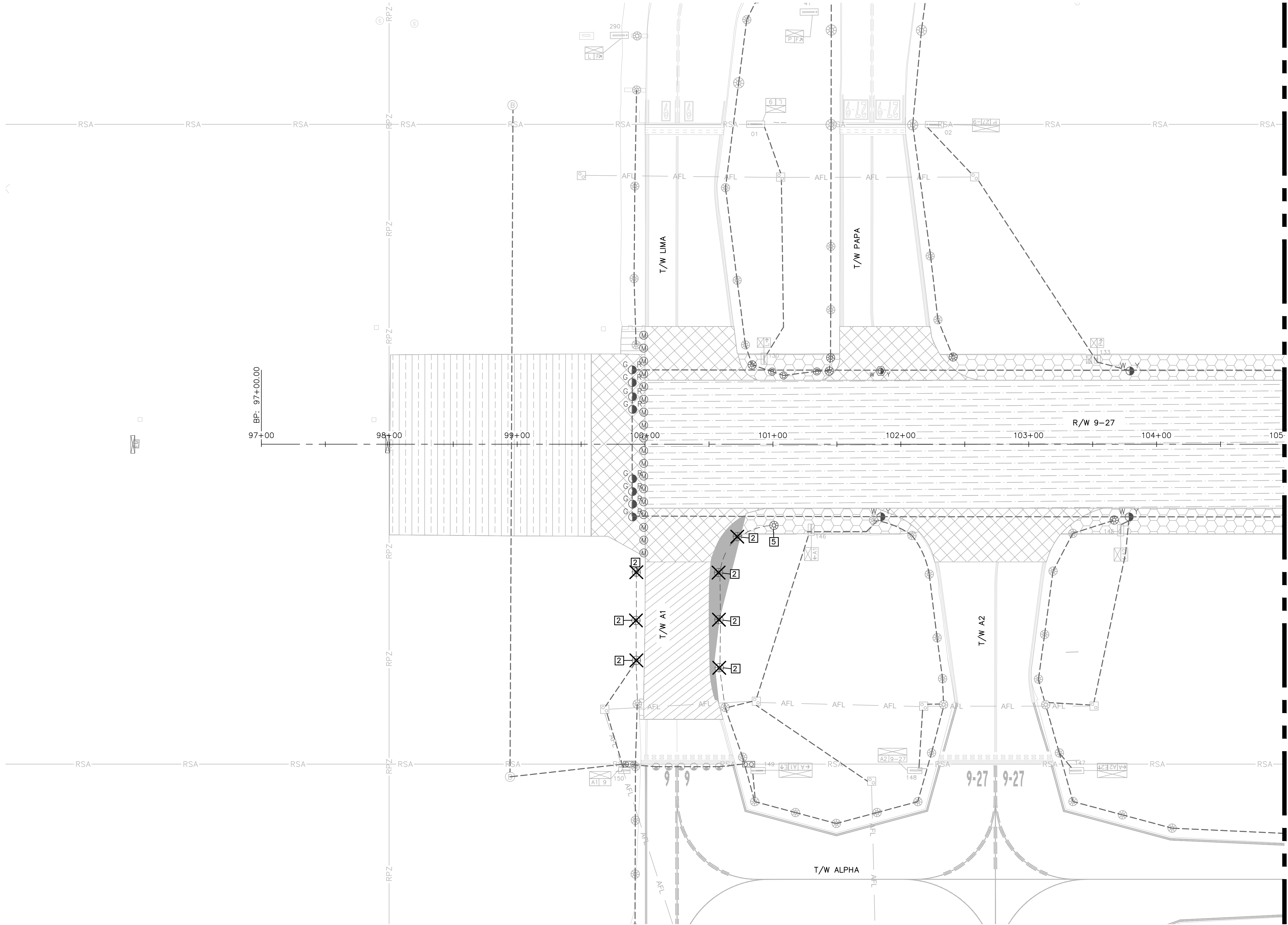
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CIVIL HATCH LEGEND

- CONSTRUCT RUNWAY OVERLAY
- CONSTRUCT RUNWAY SHOULDER OVERLAY TRANSITION
- CONSTRUCT RUNWAY BLAST PAD OVERLAY
- CONSTRUCT NEW FULL STRENGTH TAXIWAY PAVEMENT SECTION TO GRADE
- CONSTRUCT TAXIWAY OVERLAY
- CONSTRUCT OVERLAY TRANSITION
- CONSTRUCT TAXIWAY STABILIZED SUBGRADE (P-154) SHOULDER. SOD 20' ADJACENT TO PAVEMENT EDGE.

NOTES:

- SEE SHEET E002 FOR ELECTRICAL DEMOLITION NOTES DESCRIPTIONS.



WARNING!!!
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CHECKED BY: JWK

DATE: 6/7/24
BY SCALE: AS NOTED

FIELD BOOK

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHD

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL DEMOLITION PLAN - ADD ALT 1

SHEET NO. E101A OF 110

TOTAL: 110
CAD FILE: 12764-MULTI-ELEC1-ALT1
DRAWING FILE NO.

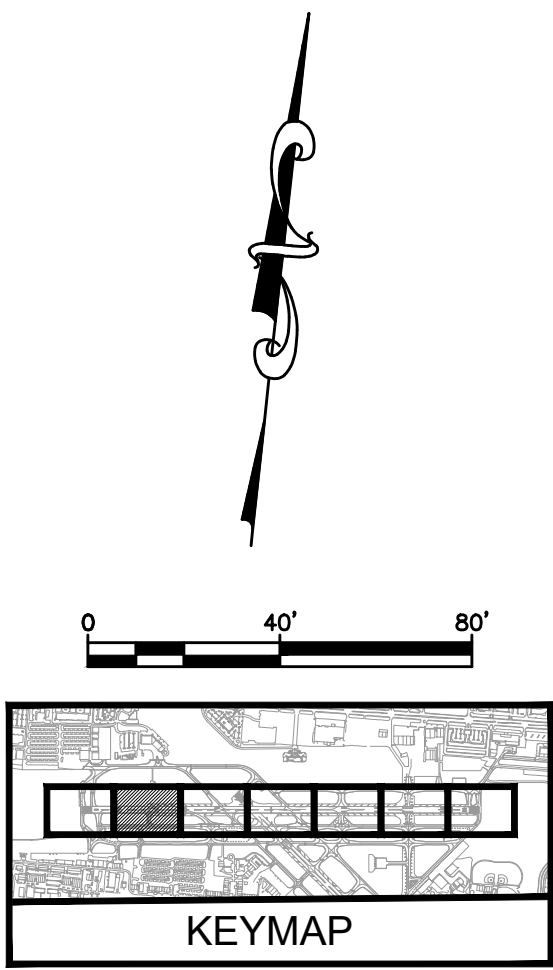
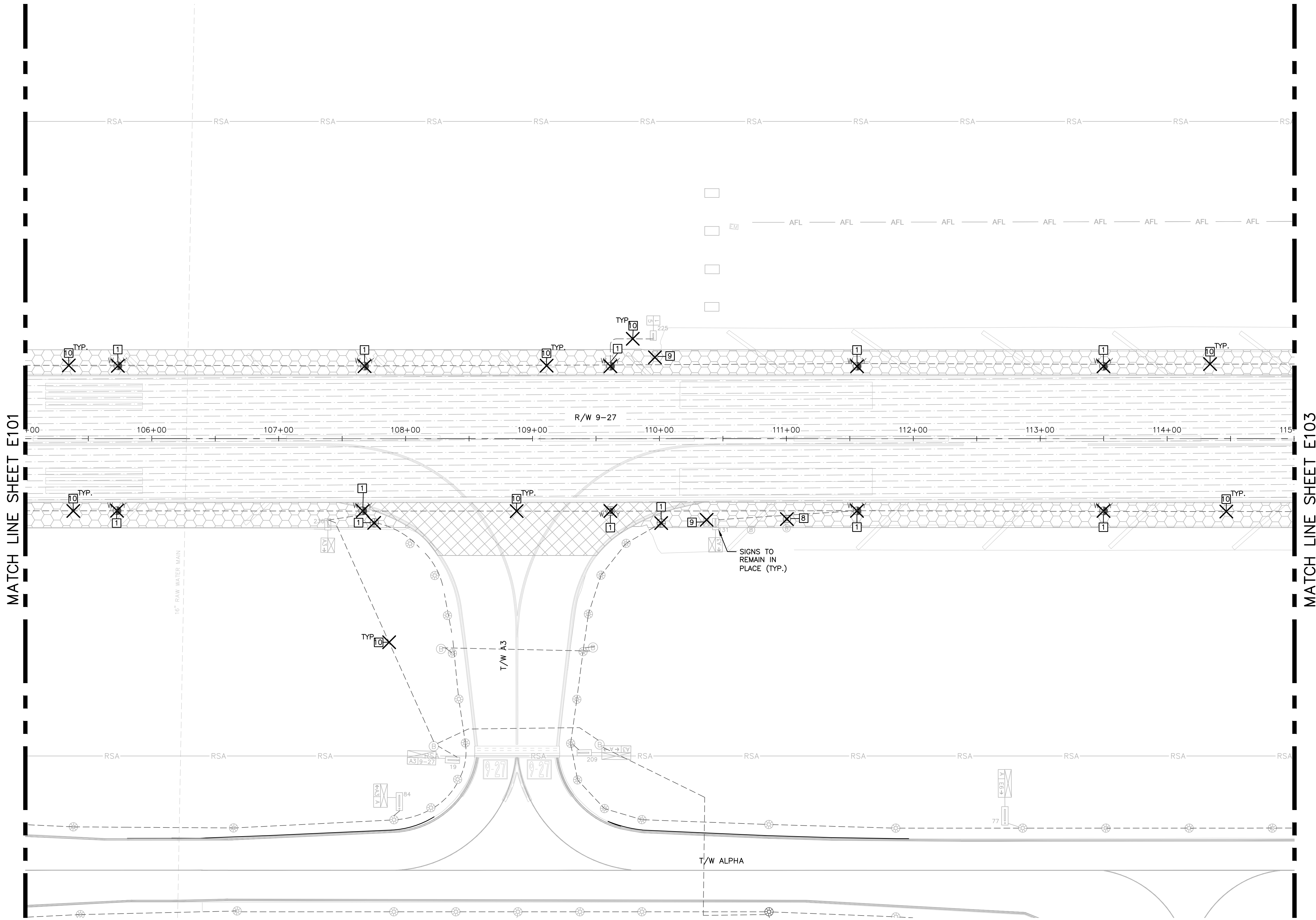
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CIVIL HATCH LEGEND

- CONSTRUCT RUNWAY OVERLAY
- CONSTRUCT RUNWAY SHOULDER OVERLAY TRANSITION
- CONSTRUCT RUNWAY BLAST PAD OVERLAY
- CONSTRUCT TAXIWAY OVERLAY
- CONSTRUCT OVERLAY TRANSITION
- CONSTRUCT TAXIWAY STABILIZED SUBGRADE (P-154) SHOULDER. SOD 20' ADJACENT TO PAVEMENT EDGE.

NOTES:
1. SEE SHEET E002 FOR ELECTRICAL DEMOLITION NOTES DESCRIPTIONS.



WARNING!!!
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LICENSE NO. CA08065

BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL DEMOLITION PLAN

SHEET NO.	OF
E102	110
TOTAL:	110
CAD FILE:	12764-MULTI-ELEC1
DRAWING FILE NO.	

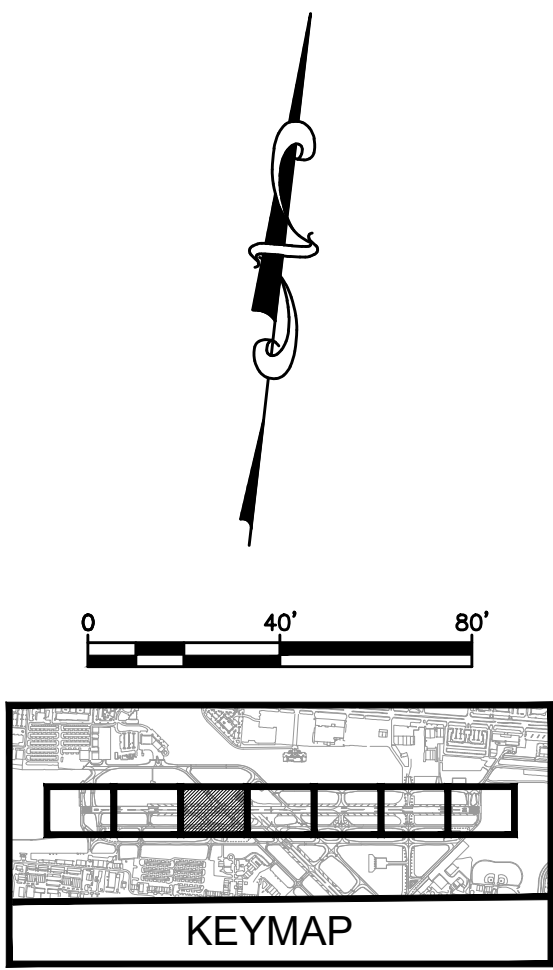
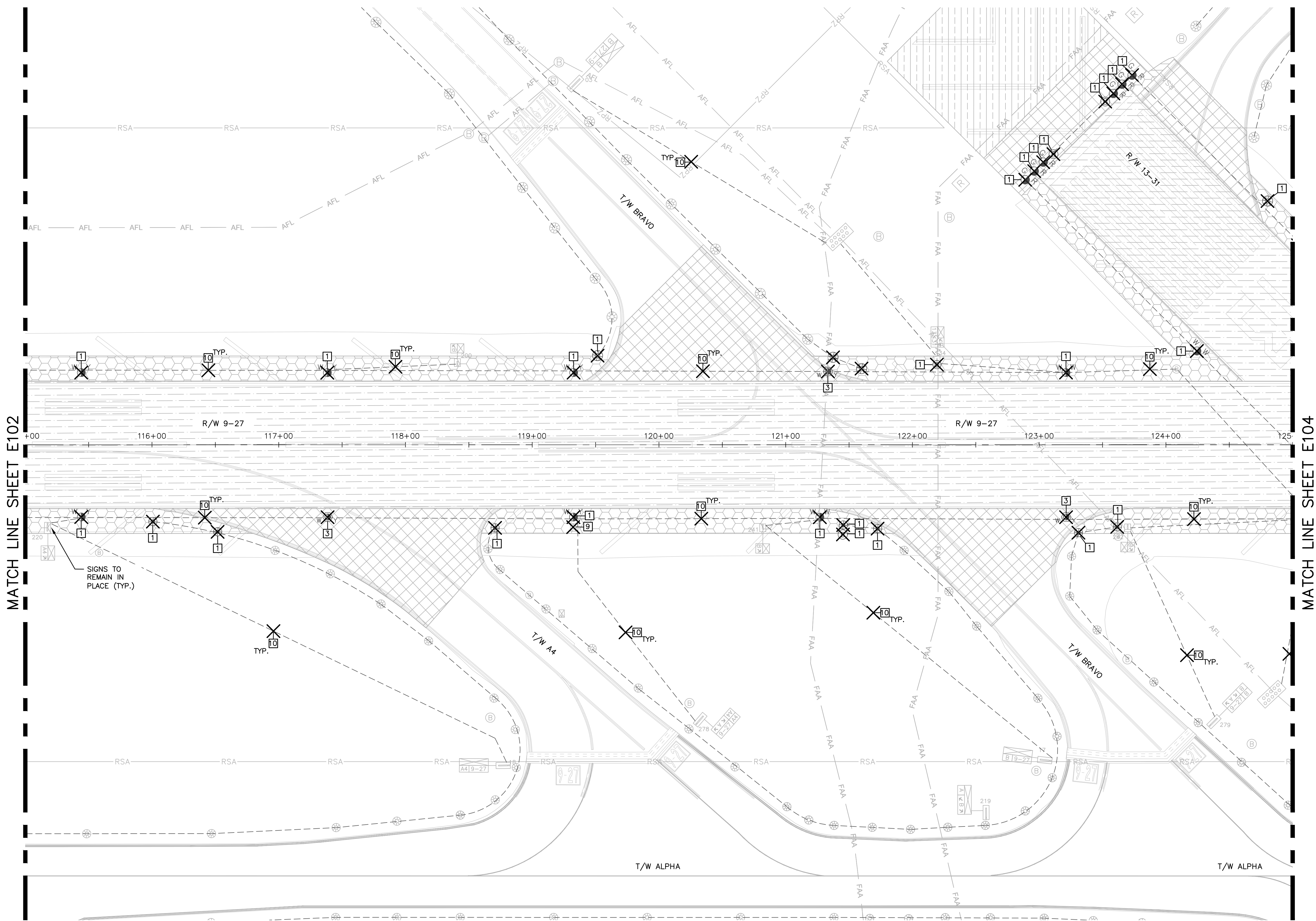
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NO.	DATE	

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ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:
DRAWN BY:
MFB
DESIGNED BY:
ALC
CHECKED BY:
JWK
DATE:
6/7/24
AS NOTED
FIELD BOOK:
33301

ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:
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MFB
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AS NOTED
FIELD BOOK:
33301

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CIVIL HATCH LEGEND

- CONSTRUCT RUNWAY OVERLAY
- CONSTRUCT RUNWAY SHOULDER OVERLAY TRANSITION
- CONSTRUCT RUNWAY BLAST PAD OVERLAY
- CONSTRUCT TAXIWAY OVERLAY
- CONSTRUCT OVERLAY TRANSITION
- CONSTRUCT TAXIWAY STABILIZED SUBGRADE (P-154) SHOULDER. SOD 20' ADJACENT TO PAVEMENT EDGE.

NOTES:
1. SEE SHEET E002 FOR ELECTRICAL DEMOLITION NOTES DESCRIPTIONS.

WARNING!!!
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LICENSURE NO. CA38865

BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL DEMOLITION PLAN

SHEET NO.	OF
E103	110
TOTAL:	110
CAD FILE:	12764-MULTI-ELEC1
DRAWING FILE NO.	

DRAWN BY:	DATE:
MRB	6/7/24
DESIGNED BY:	SCALE:
ALC	AS NOTED
CHECKED BY:	
JWK	
FIELD BOOK:	

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

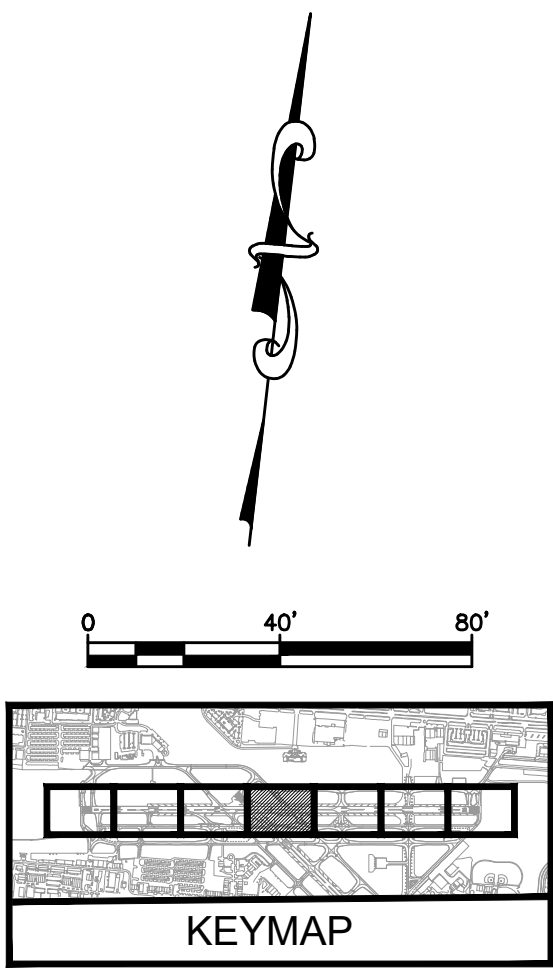
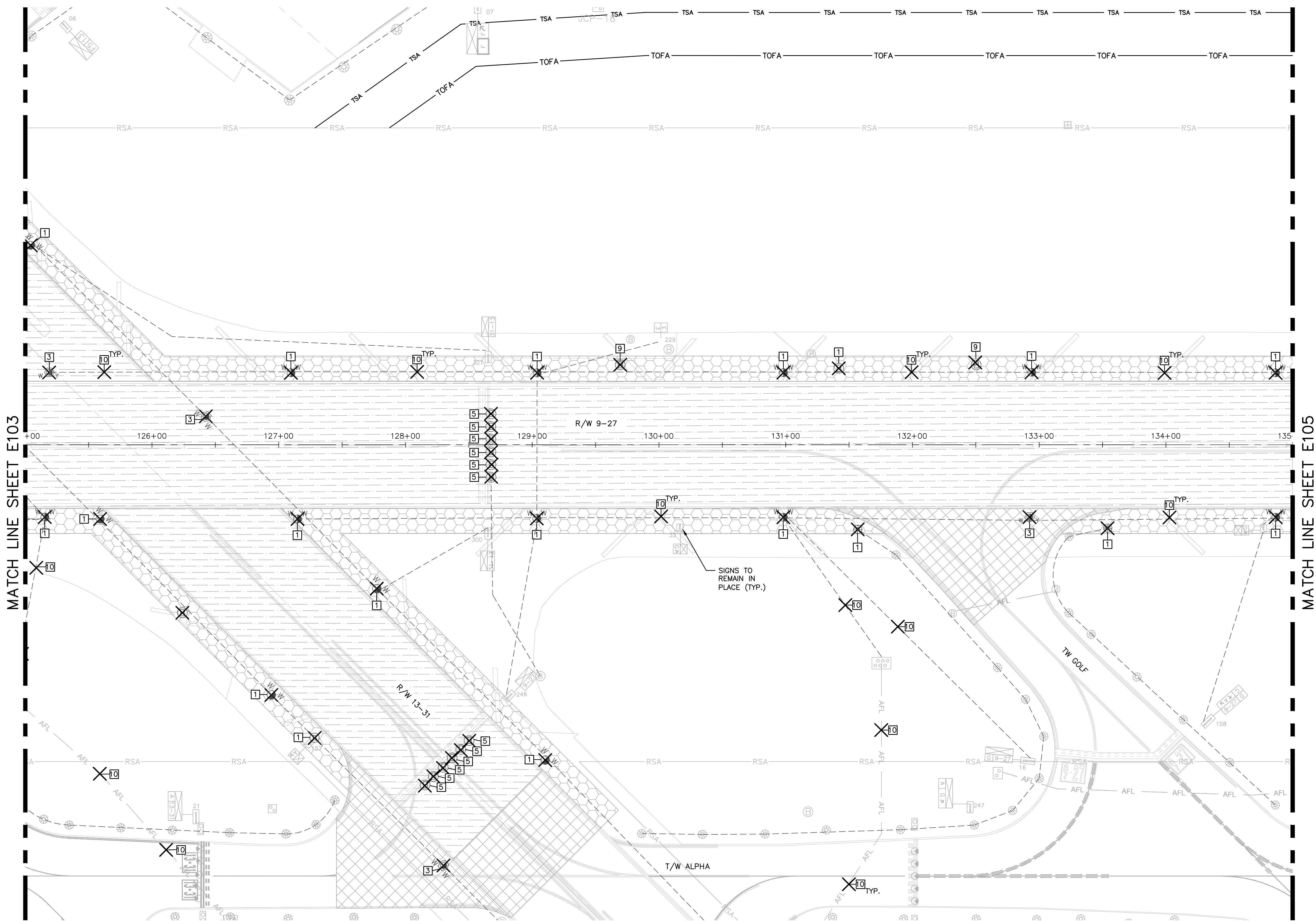
ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO. 73735
DATE:
TEL: 561-840-0825
FAX:

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ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO. 73735
DATE:

DRAWN BY: DATE: 6/7/24
MRB
DESIGNED BY: SCALE:
ALC AS NOTED
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

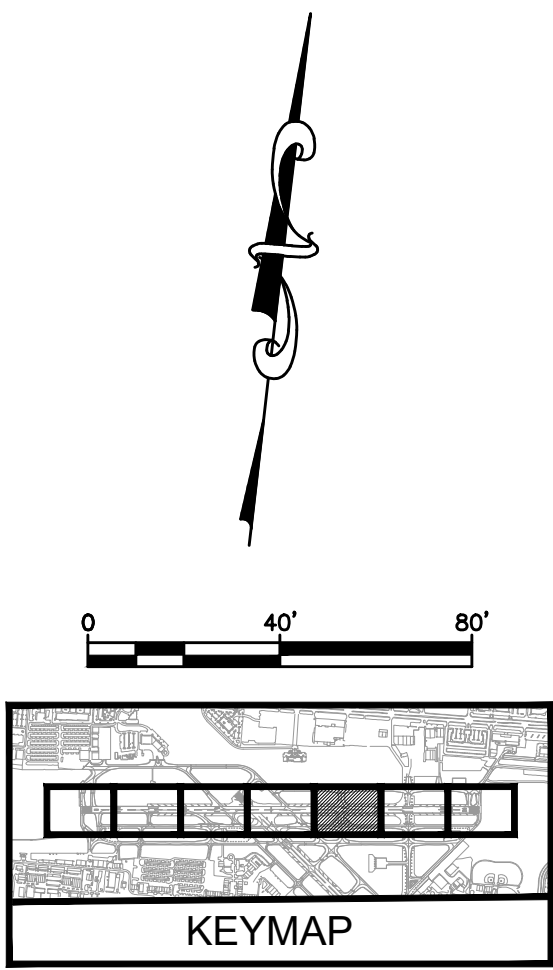
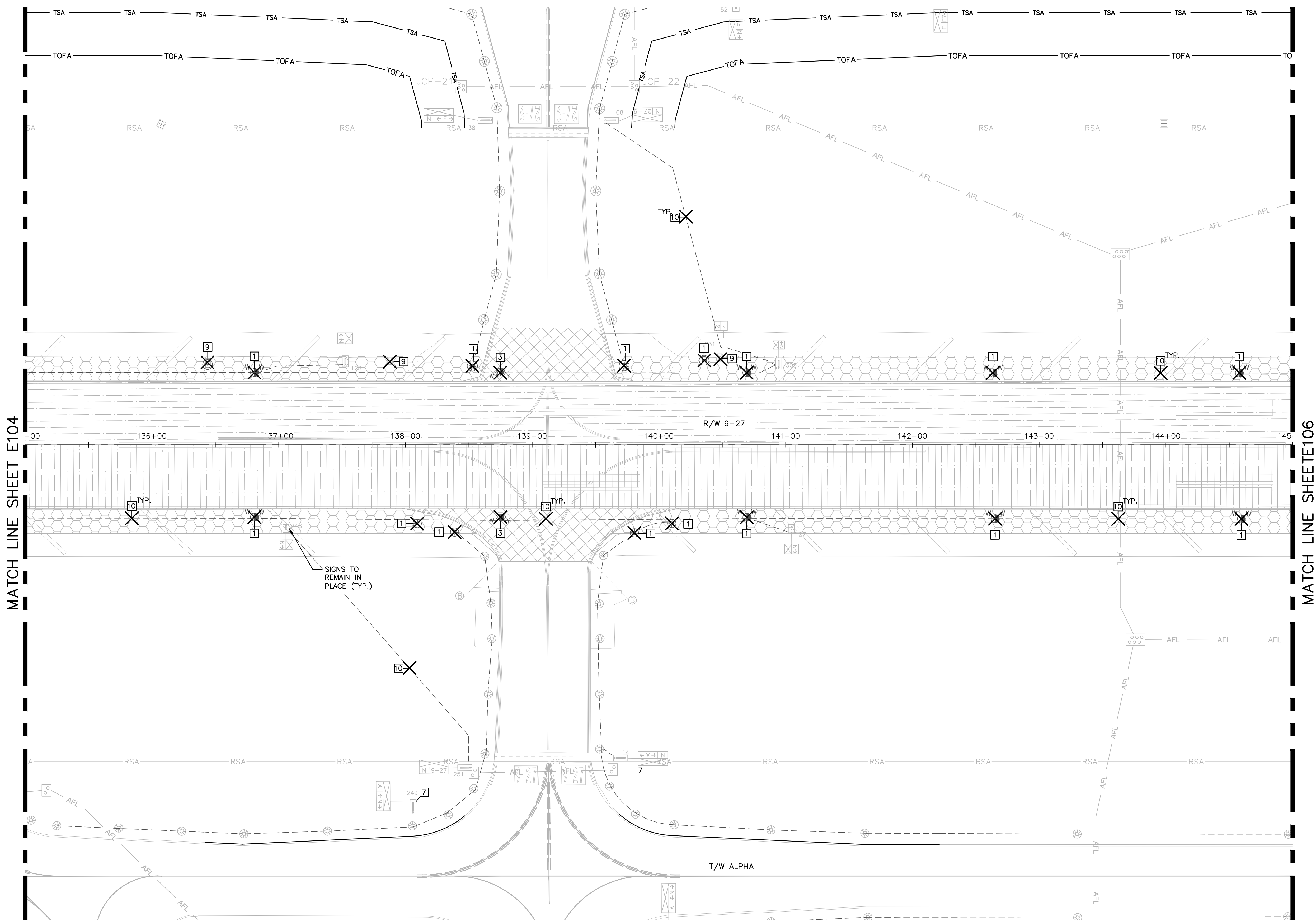
PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL DEMOLITION PLAN

SHEET NO. **E104** OF 110

TOTAL: 110
CAD FILE: 12764-MULTI-ELEC1
DRAWING FILE NO.

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Coral Springs, FL 33067
954-330-9224
LICENSE NO. CA08865

ENGINEER: AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:
DRAWN BY: MFB
DESIGNED BY: SCALE:
CHECKED BY: JWK
FIELD BOOK:
TEL: 561-840-0825
FAX:

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PUBLIC WORKS DEPARTMENT
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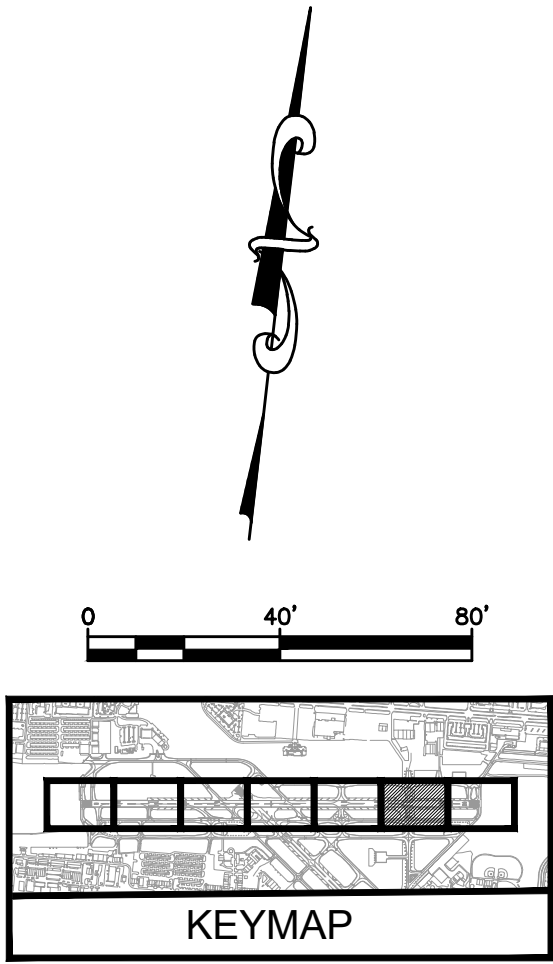
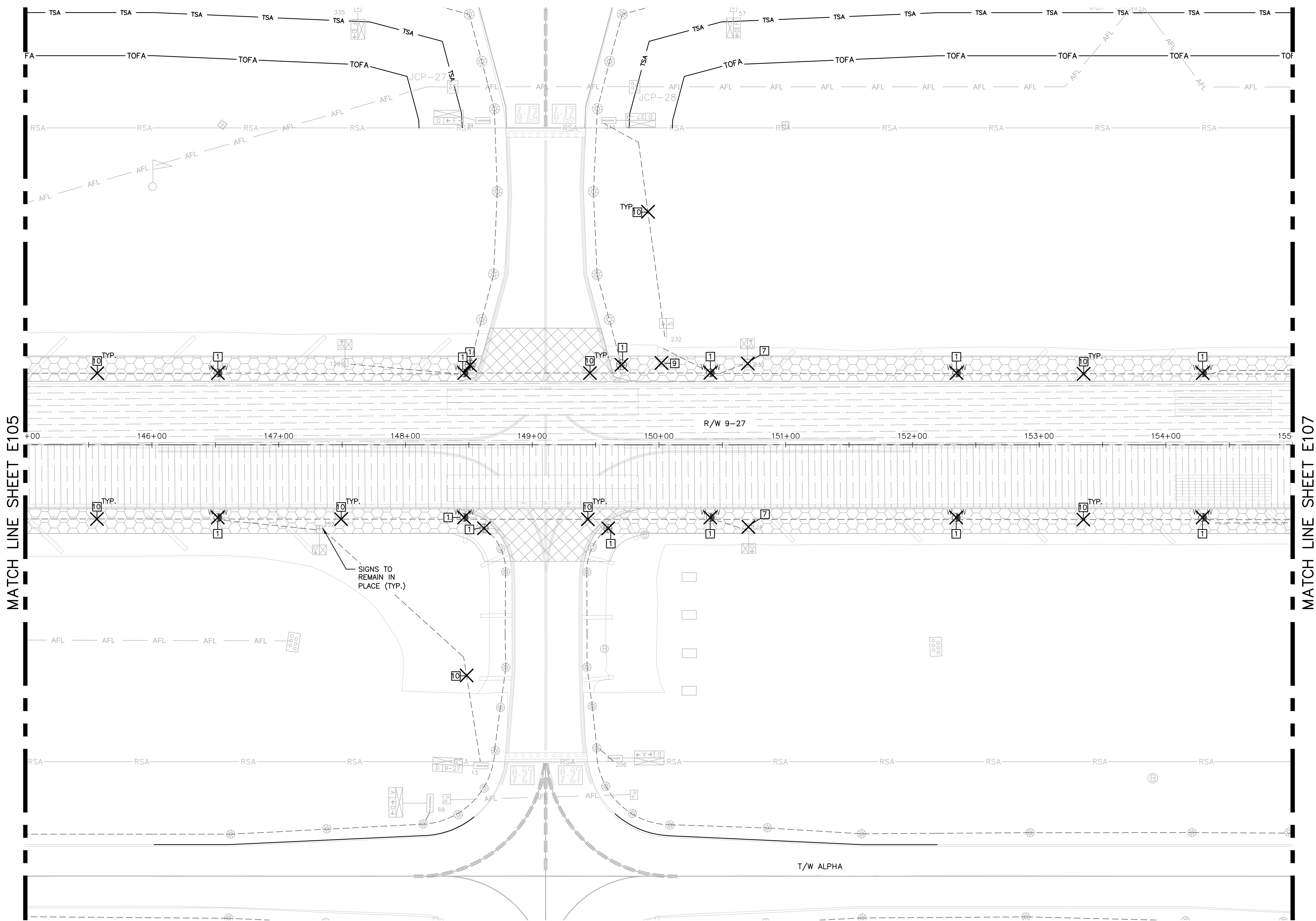
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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL DEMOLITION PLAN

SHEET NO. OF
E105
TOTAL: 110
CAD FILE:
12764-MULTI-ELEC1
DRAWING FILE NO.

BID SET

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CIVIL HATCH LEGEND

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ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:

DRAWN BY: MFB
DESIGNED BY: SCALE: ALC
CHECKED BY: JWK
DATE: 6/7/24
FIELD BOOK: 33301

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL DEMOLITION PLAN

SHEET NO. E106 OF 110
TOTAL: 110
CAD FILE: 12764-MULTI-ELEC1
DRAWING FILE NO.

BID SET

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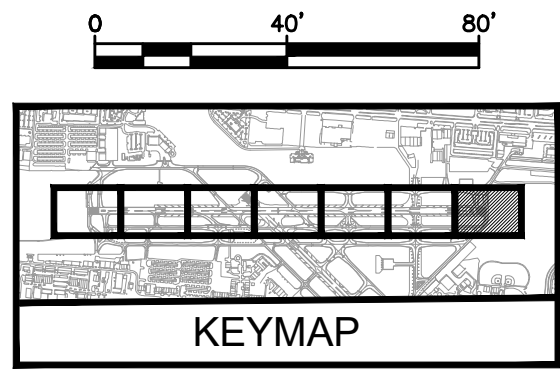
MATCH LINE SHEET E106

CIVIL HATCH LEGEND

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0 40' 80'

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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL DEMOLITION PLAN

SHEET NO.	OF
E107	110
TOTAL:	110
CAD FILE:	12764-MULTI-ELEC1
DRAWING FILE NO.	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		DESCRIPTION
NO.	DATE	

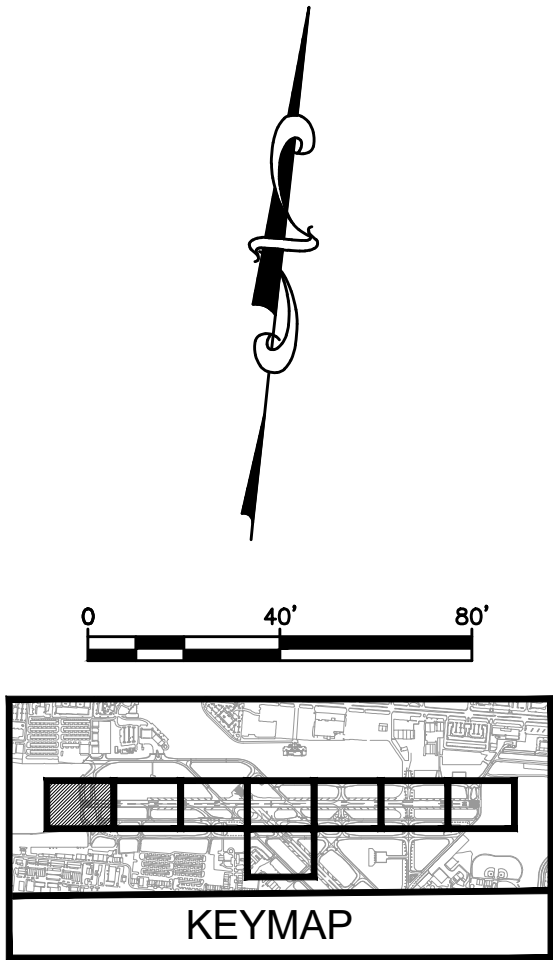
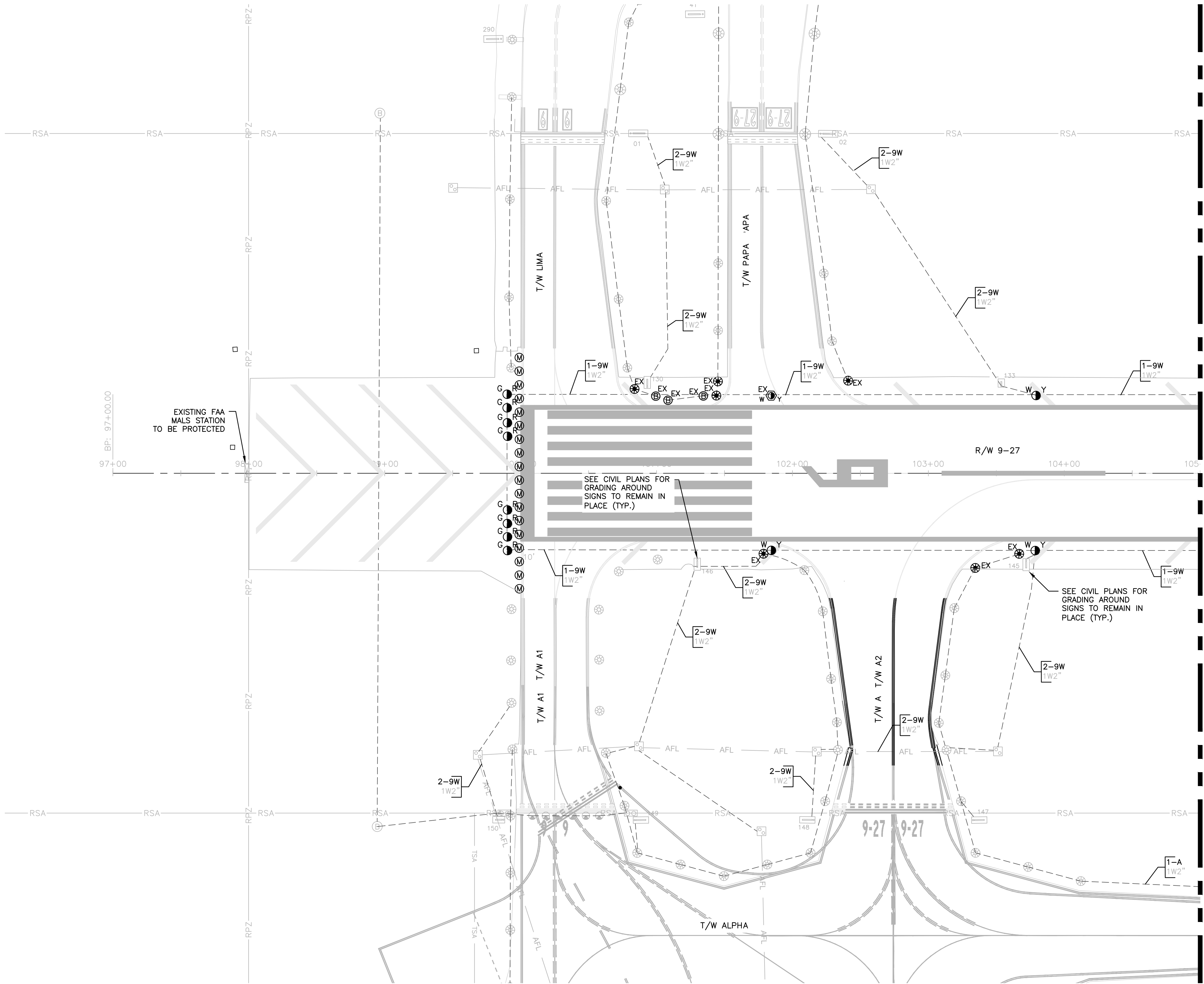
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MFB	6/7/24
DESIGNED BY:	SCALE:
ALC	AS NOTED
CHECKED BY:	
JWK	
FIELD BOOK:	

ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:
TEL: 561-840-0825
FAX:

C:\USERS\ACHAM\QEE DROPBOX\QUANTUM PROJECTS\KHA KIMLEY HORN\KHA2401 FXE RW 9-27 REHAB\DWG\BID\12764-MULTI-ELEC3.DWG

NOTES:

1. SEE SHEET E002 FOR ELECTRICAL INSTALLATION NOTE DESCRIPTIONS.



WARNING!!! WARNING!!! WARNING!!!
THERE ARE A NUMBER OF AIRPORT, PUBLIC UTILITIES, AND
FAA LIGHTING, COMMUNICATIONS, UNDERGROUND CABLES AND
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5575 N. University Dr., Suite 101
Coral Springs, FL 33067
954-356-7212
LICENSE NO. CA38865

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL CIRCUITRY PLAN

SHEET NO.	OF
E301	
TOTAL:	110
CAD FILE:	12764-MULTI-ELEC3
DRAWING FILE NO.	

DRAWN BY:	DATE:
MFB	6/7/24
DESIGNED BY:	SCALE:
ALC	AS NOTED
CHECKED BY:	
JWK	
FIELD BOOK:	

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PUBLIC WORKS DEPARTMENT
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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

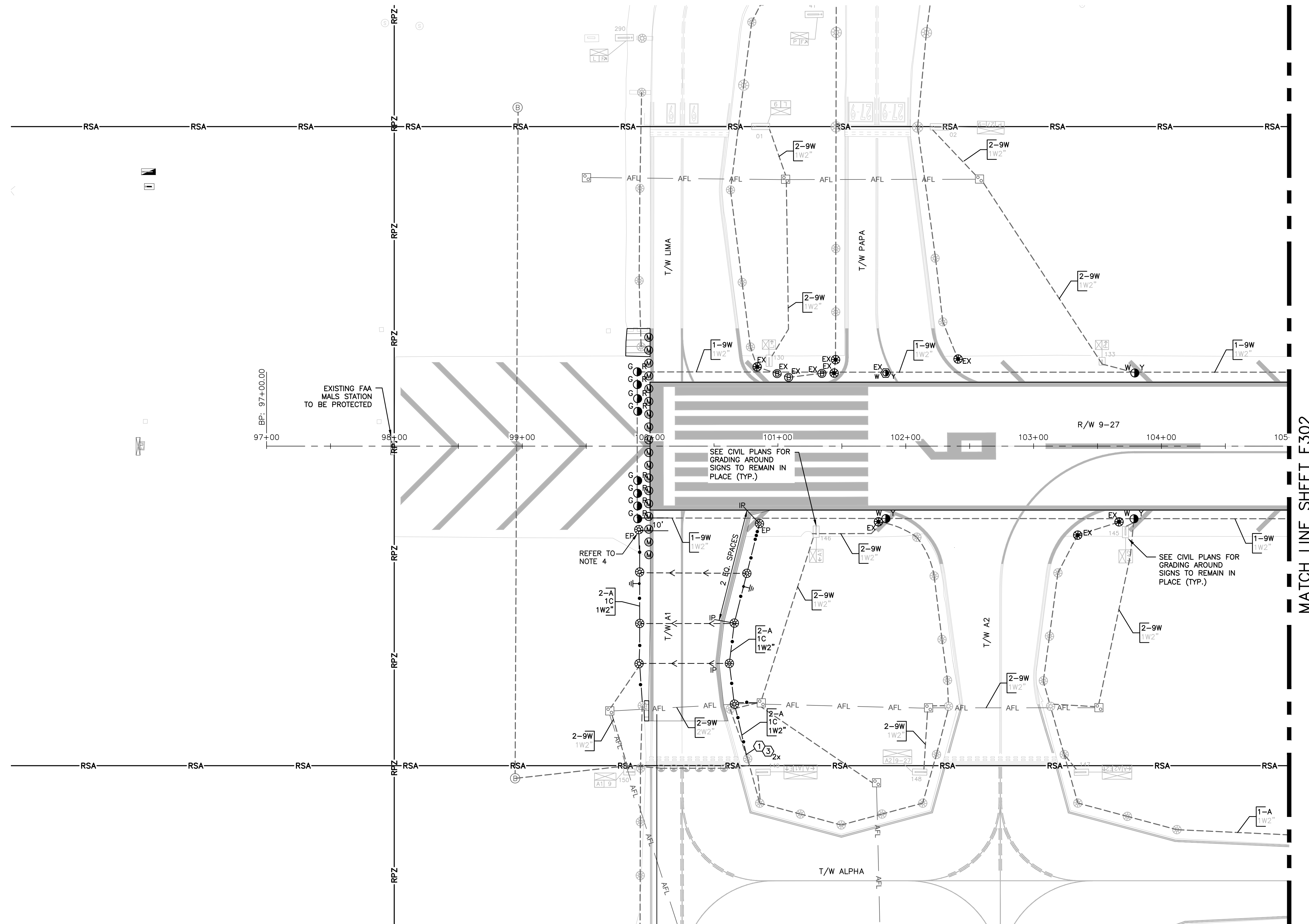
ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:

TEL: 561-840-0825
FAX:

NO.	DATE	BY	CHD	DESCRIPTION

NOTES:

1. REFER TO TYPICAL TAXIWAY EDGE LIGHT CONFIGURATION DETAIL FOR LAYOUT AND INSTALLATION INFORMATION OF NEW EDGE LIGHTS AND BASE CANS.
2. CONTRACTOR SHALL UTILIZE EQUAL SPACING, IP(S) AND PT(S) FOR THE LIGHTING LAYOUT. PT AND IP LOCATIONS SHALL BE PER GEOMETRY PLAN.
3. TYPICAL NEW SIGN OFFSET TO BE INSTALLED AT 15' FROM EDGE OF FULL STRENGTH PAVEMENT UNLESS NOTED OTHERWISE. SEE SIGN DETAILS AND NOTES FOR ADDITIONAL INFORMATION.
4. THE LAST TAXIWAY EDGE LIGHT AT THIS LOCATION SHALL BE INSTALLED 3' FROM THE RUNWAY EDGE LIGHT OFFSET LINE.
5. THE LAST TAXIWAY EDGE LIGHT AT THIS LOCATION SHALL BE INSTALLED 10' FROM THE RUNWAY EDGE LIGHT OFFSET LINE.
6. REFER TO RUNWAY GUARD LIGHT HOLDBAR LAYOUT FOR IMPAVEMENT AND ELEVATED RUNWAY GUARD LIGHT LAYOUT INSTALLATION INFORMATION.



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

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5571 N. University, Suite 101
Coral Springs, FL 33067
561-210-9224
LICENSE NO. CA36085

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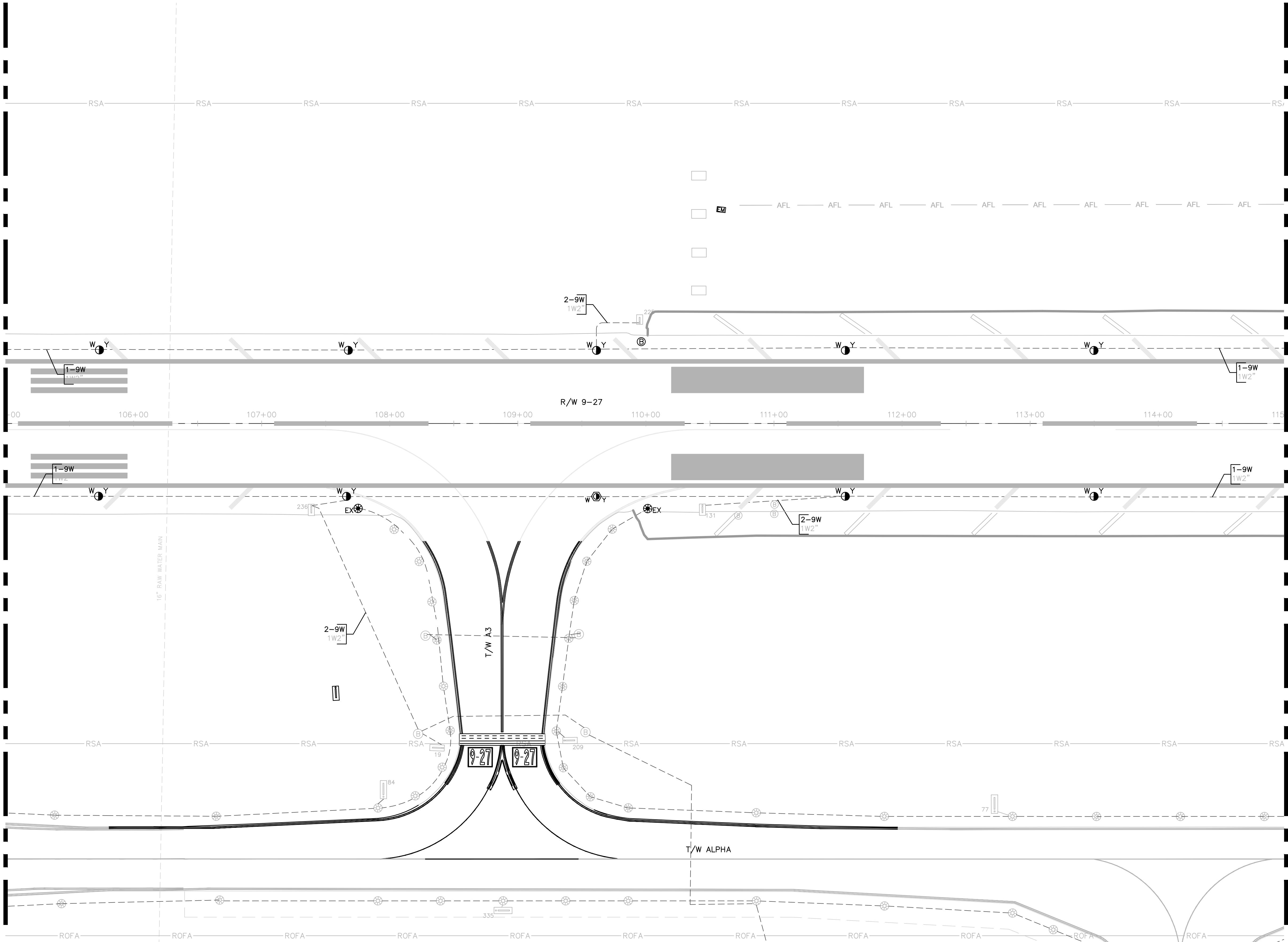
PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL CIRCULATING

SHEET NO.	OF
E301A	
TOTAL:	110
CAD FILE:	
12764—MULTI—ELEC3—AL	
DRAWING FILE NO.	

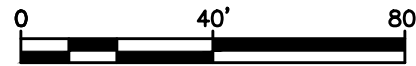
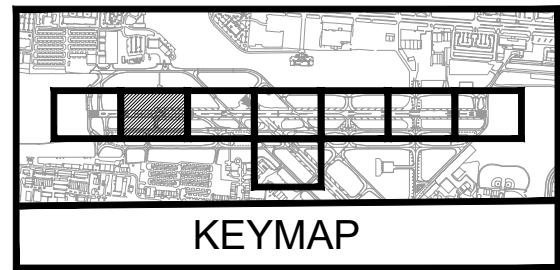
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NOTES:
1. SEE SHEET E002 FOR ELECTRICAL INSTALLATION NOTE DESCRIPTIONS.

MATCH LINE SHEET E301



MATCH LINE SHEET E303



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603-230-9224
LICENSE NO. CA38865

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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL CIRCUITRY PLAN

SHEET NO.	OF
E302	110
TOTAL:	110
CAD FILE:	12764-MULTI-ELEC3
DRAWING FILE NO.	

DRAWN BY:	DATE:
MFB	6/7/24
DESIGNED BY:	SCALE:
ALC	AS NOTED
CHECKED BY:	
JWK	
FIELD BOOK:	

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

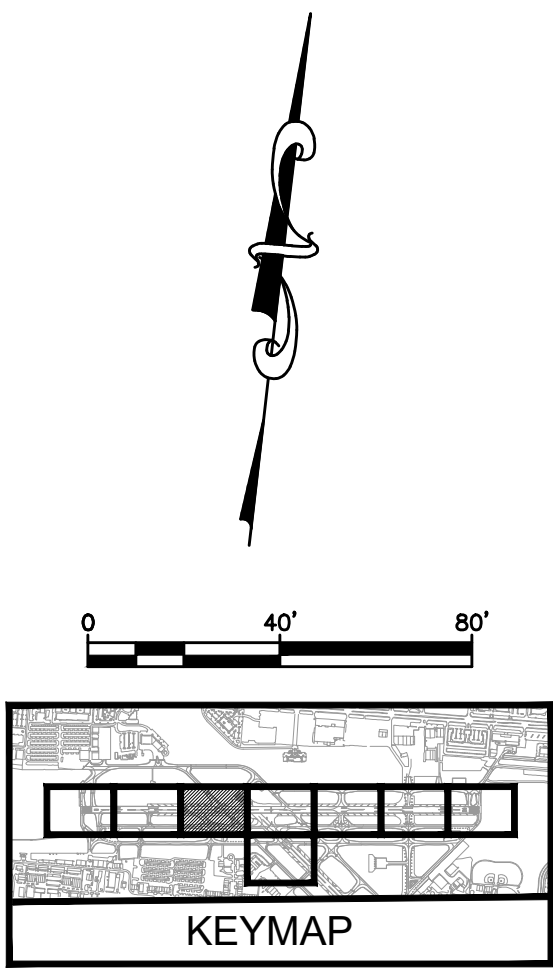
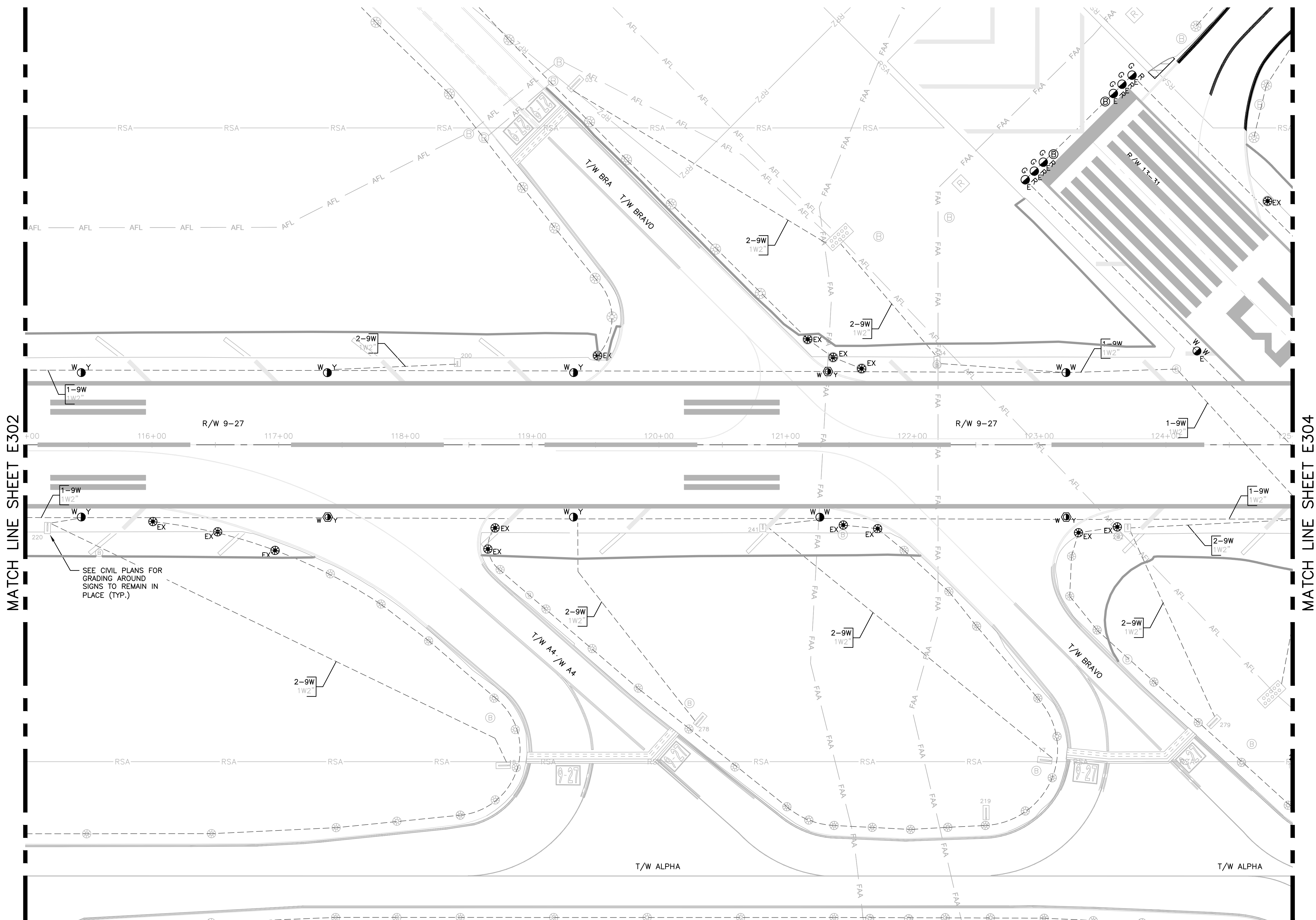
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:

TEL: 561-840-0825
FAX:

CAM #24-0854
Exhibit 1B
Page 285 of 417

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- NOTES:
1. SEE SHEET E002 FOR ELECTRICAL INSTALLATION NOTE DESCRIPTIONS.

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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL CIRCUITRY PLAN

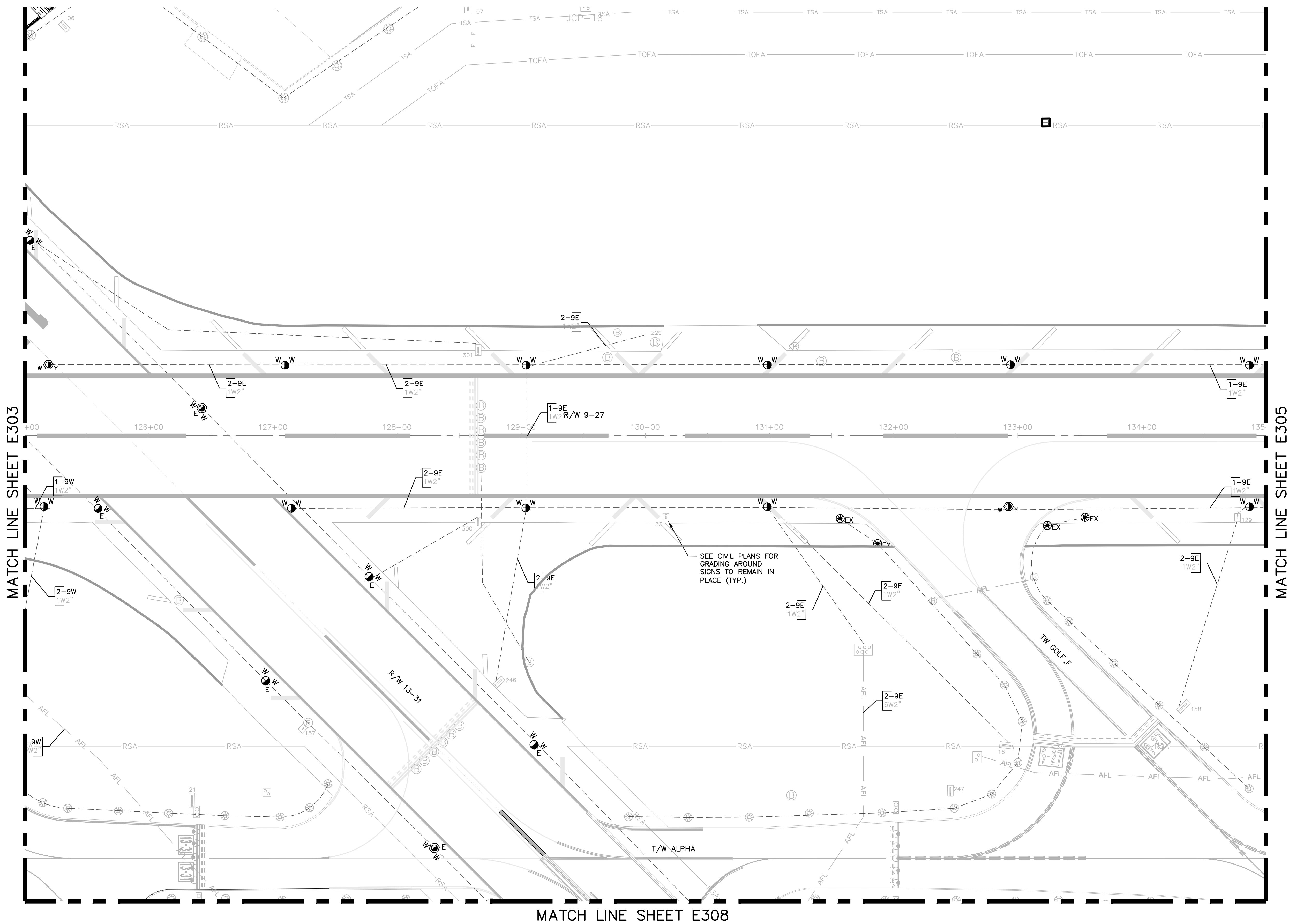
SHEET NO.	OF
E303	
TOTAL:	110
CAD FILE:	12764-MULTI-ELEC3
DRAWING FILE NO.	

DRAWN BY:	DATE:
MRB	6/7/24
DESIGNED BY:	SCALE:
ALC	AS NOTED
CHECKED BY:	
JWK	
FIELD BOOK:	

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ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO. 73735
DATE:
TEL: 561-840-0825
FAX:

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- NOTES:
1. SEE SHEET E002 FOR ELECTRICAL INSTALLATION NOTE DESCRIPTIONS.

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Electrical Engineering, Inc.
5575 N. University Dr., Suite 101
Coral Springs, FL 33067
954-210-9224
LICENSE NO. CA38865

ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:

DRAWN BY: DATE: 6/7/24
MRB
DESIGNED BY: SCALE: AS NOTED
ALC
CHECKED BY: JWK
FIELD BOOK:

TEL: 561-840-0825
FAX:

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ENGINEERING & ARCHITECTURE

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NO.	REVISIONS		DESCRIPTION
	BY	CHKD	

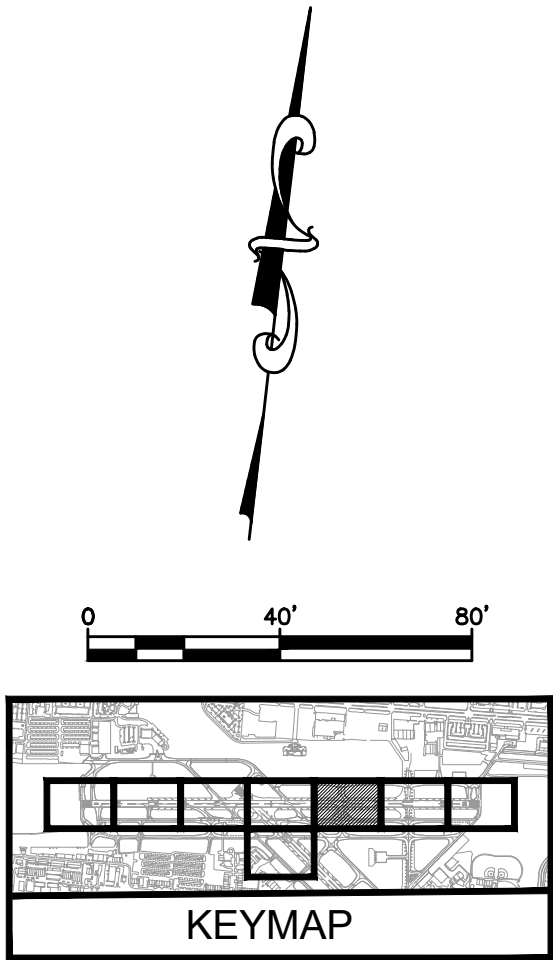
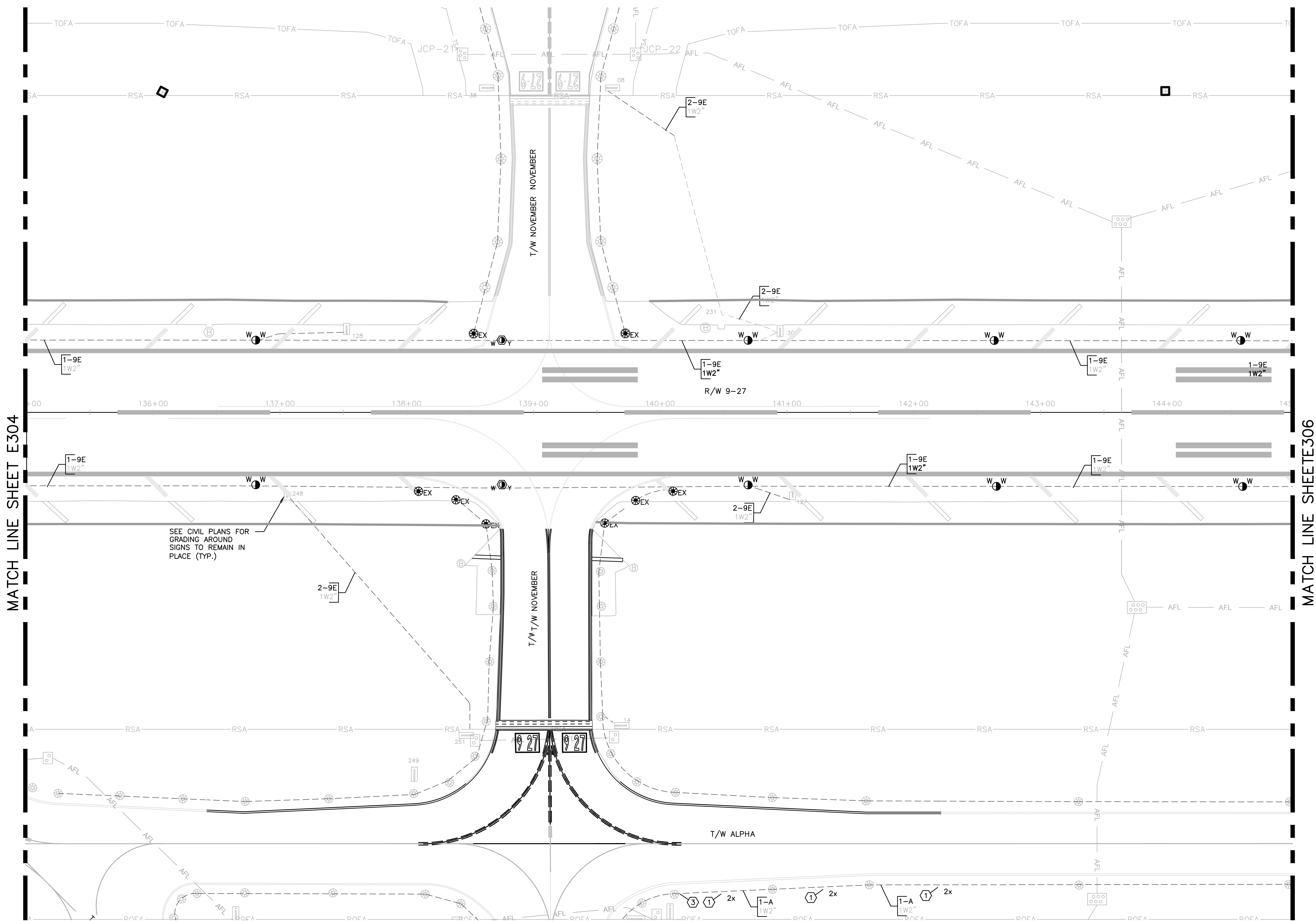
PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL CIRCUITRY PLAN

SHEET NO. E304 OF 110

TOTAL: 110
CAD FILE: 12764-MULTI-ELEC3
DRAWING FILE NO.

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- NOTES:
- SEE SHEET E002 FOR ELECTRICAL INSTALLATION NOTE DESCRIPTIONS.

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5575 N. University Dr., Suite 101
Orlando, FL 32817
604-210-0224
LICENSE NO. CA08865

ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO. 173735
DATE:

DRAWN BY: MFB
DATE: 6/7/24
DESIGNED BY: SCALE:
ALC AS NOTED
CHECKED BY: JWK
FIELD BOOK:

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

TEL: 561-840-0825
FAX:

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHD

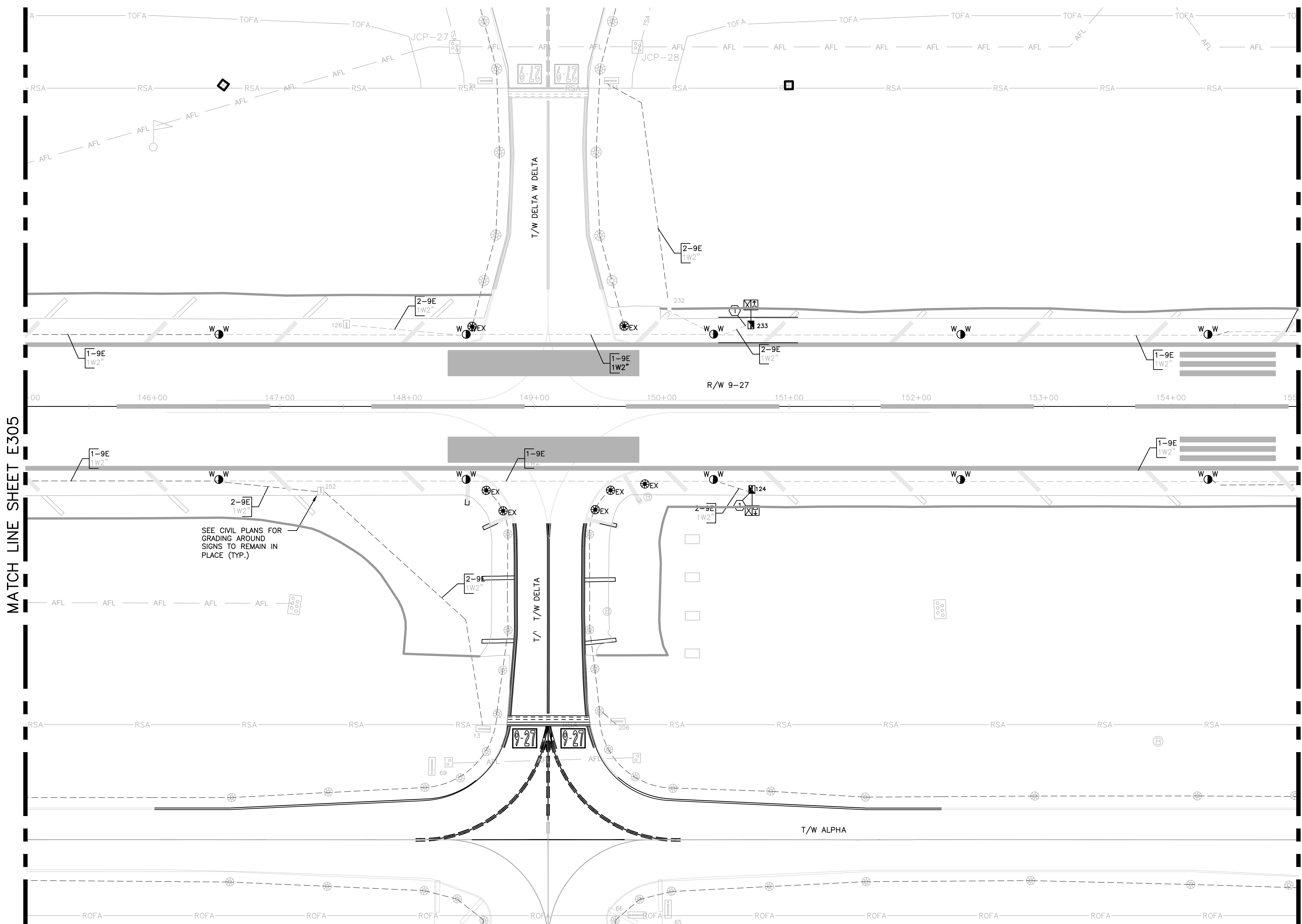
PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL CIRCUITRY PLAN

SHEET NO. **E305** OF

TOTAL: 110
CAD FILE:
12764-MULTI-ELEC3
DRAWING FILE NO.

BID SET

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- NOTES:
1. SEE SHEET E002 FOR ELECTRICAL INSTALLATION NOTE DESCRIPTIONS.

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Coral Springs, FL 33067
661-210-9224
LICENSE NO. CA38865

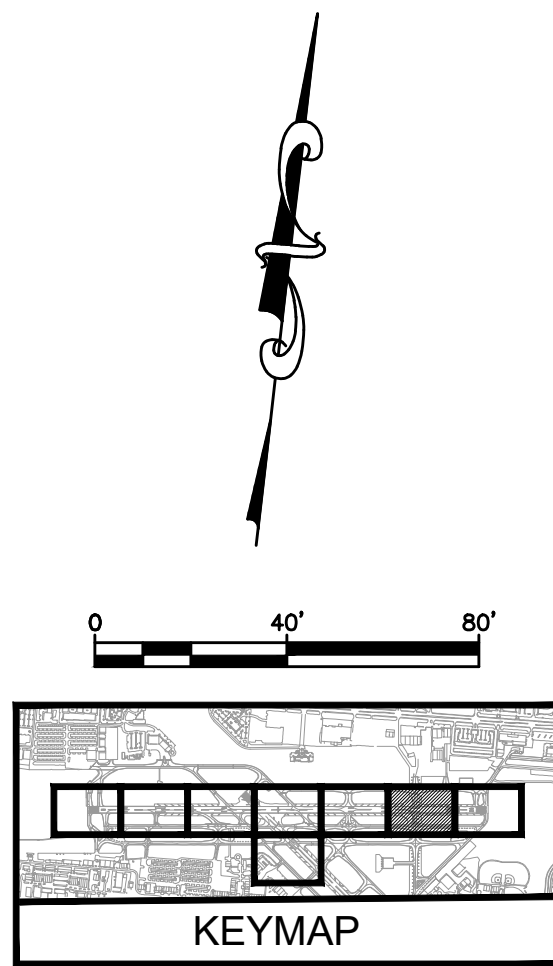
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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL CIRCUITRY PLAN

SHEET NO.	OF
E306	
TOTAL:	110
CAD FILE:	12764-MULTI-ELEC3
DRAWING FILE NO.	

DRAWN BY:	DATE:
MFB	6/7/24
DESIGNED BY:	SCALE:
ALC	AS NOTED
CHECKED BY:	
JWK	
FIELD BOOK:	

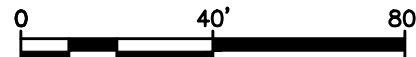
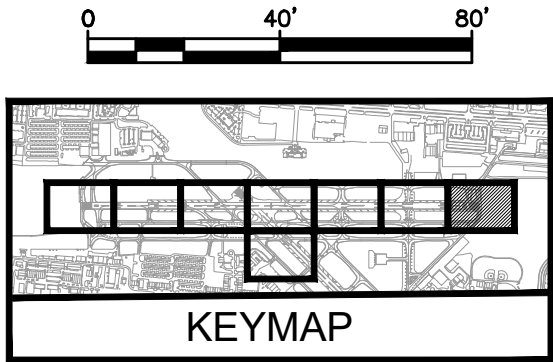
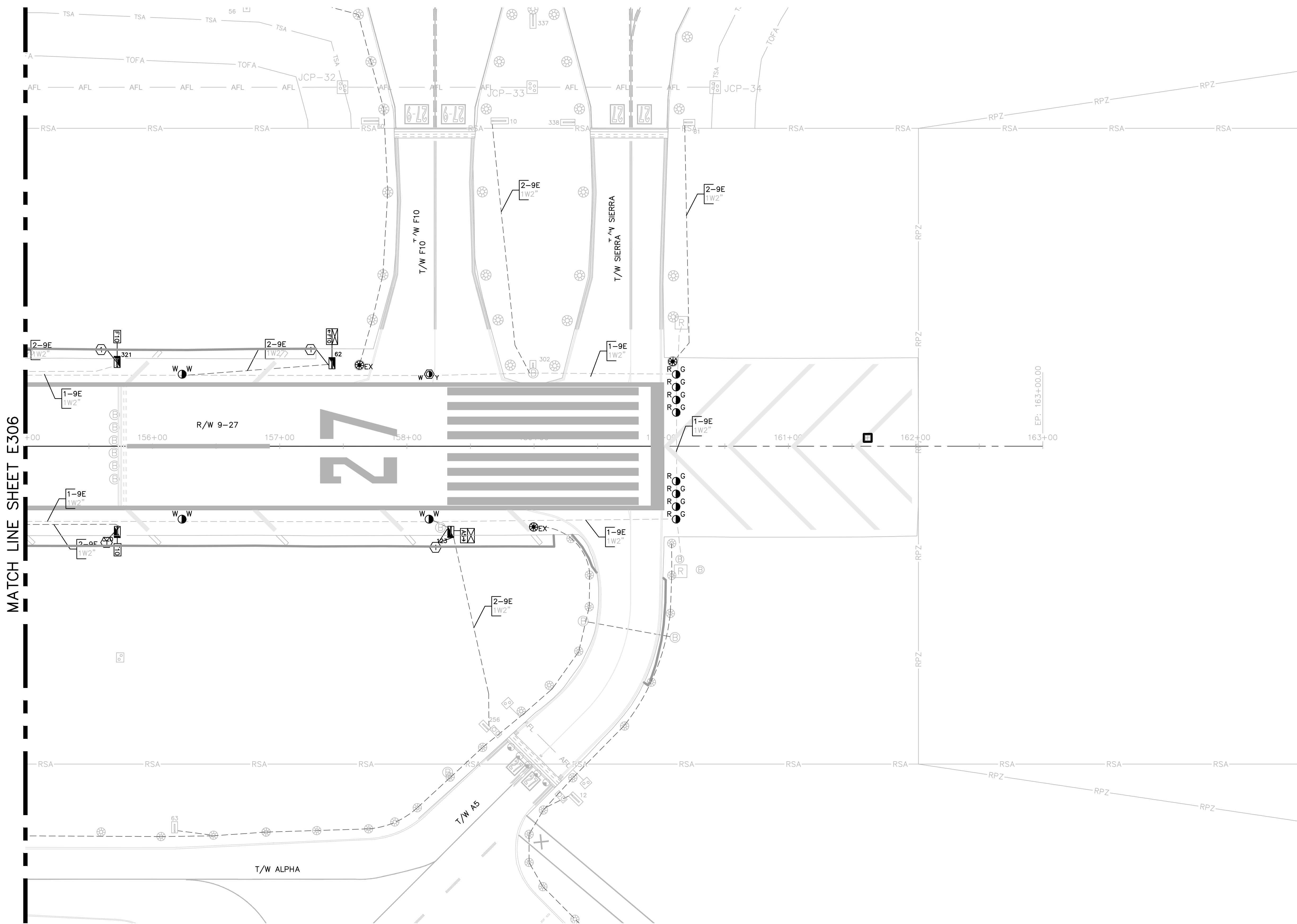
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ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO. 73735
DATE:

TEL: 561-840-0825
FAX:

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- NOTES:
- SEE SHEET E002 FOR ELECTRICAL INSTALLATION NOTE DESCRIPTIONS.

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Electrical Engineering, Inc.
5575 N. University Dr. Suite 101
Coral Springs, FL 33067
954-356-7212
LICENSE NO. CA38865

BID SET


ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:

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

DATE:
6/7/24
SCALE:
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NO.	DATE	BY	CHD	DESCRIPTION

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL CIRCUITRY PLAN

SHEET NO.
E307

OF
110

TOTAL: 110

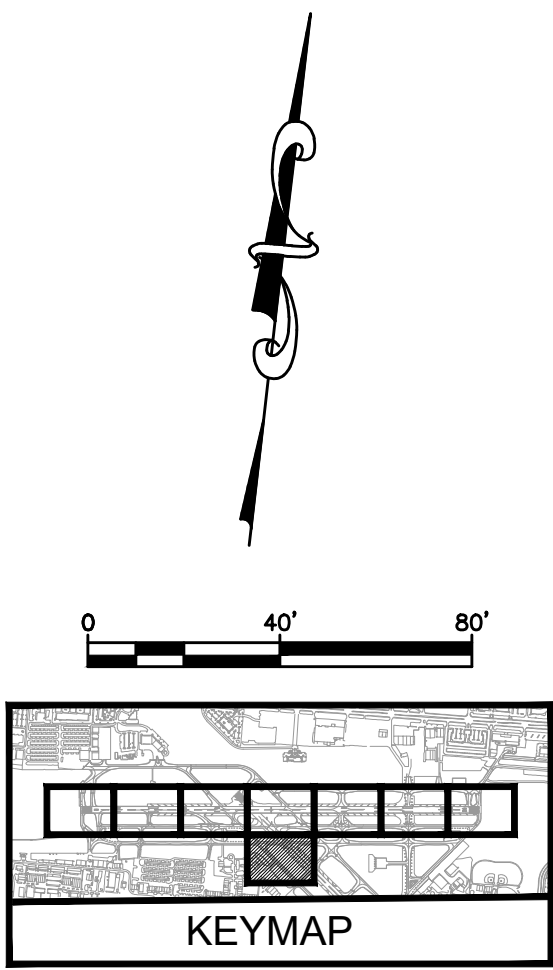
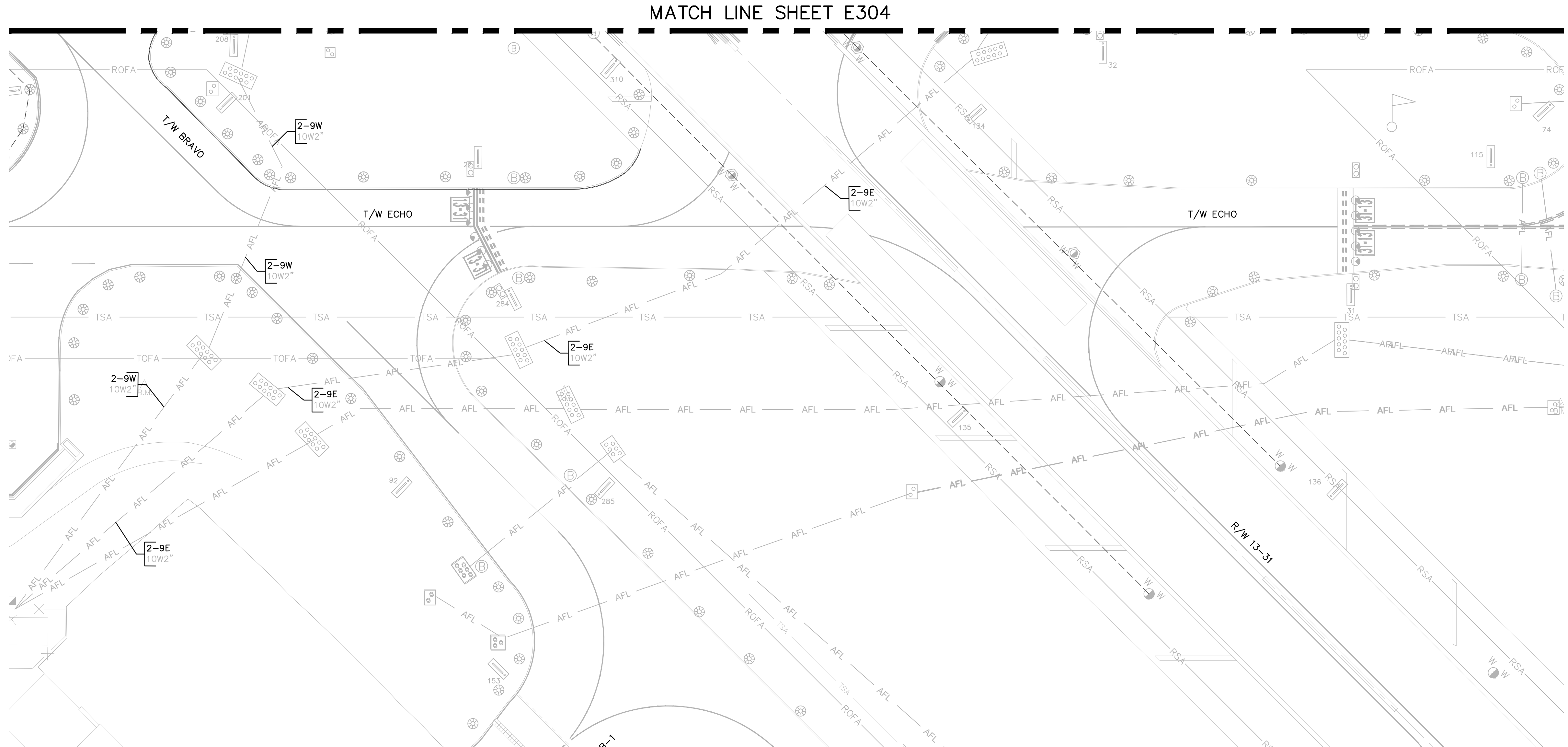
CAD FILE:
12764-MULTI-ELEC3

DRAWING FILE NO.

CAM #24-0854
Exhibit 1B
Page 290 of 417

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- NOTES:
1. SEE SHEET E002 FOR ELECTRICAL INSTALLATION NOTE DESCRIPTIONS.



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800 PETER ROAD, SUITE 200, PLANTATION, FL 33324
PHONE: 954-356-7212 FAX: 954-728-2527
WWW.KH-HORN.COM LICENSE NO. 20108


Electrical Engineering, Inc.
5575 N. University Dr., Suite 101
Coral Springs, FL 33067
954-270-9224
LICENSE NO. CA18085

BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL CIRCUITRY PLAN

SHEET NO.
E308

OF
110

TOTAL:

110

CAD FILE:

12764-MULTI-ELEC3

DRAWING FILE NO.

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHKD


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

DRAWN BY:
MFB

DESIGNED BY:
ALC

CHECKED BY:
JWK

FIELD BOOK

DATE:
6/7/24

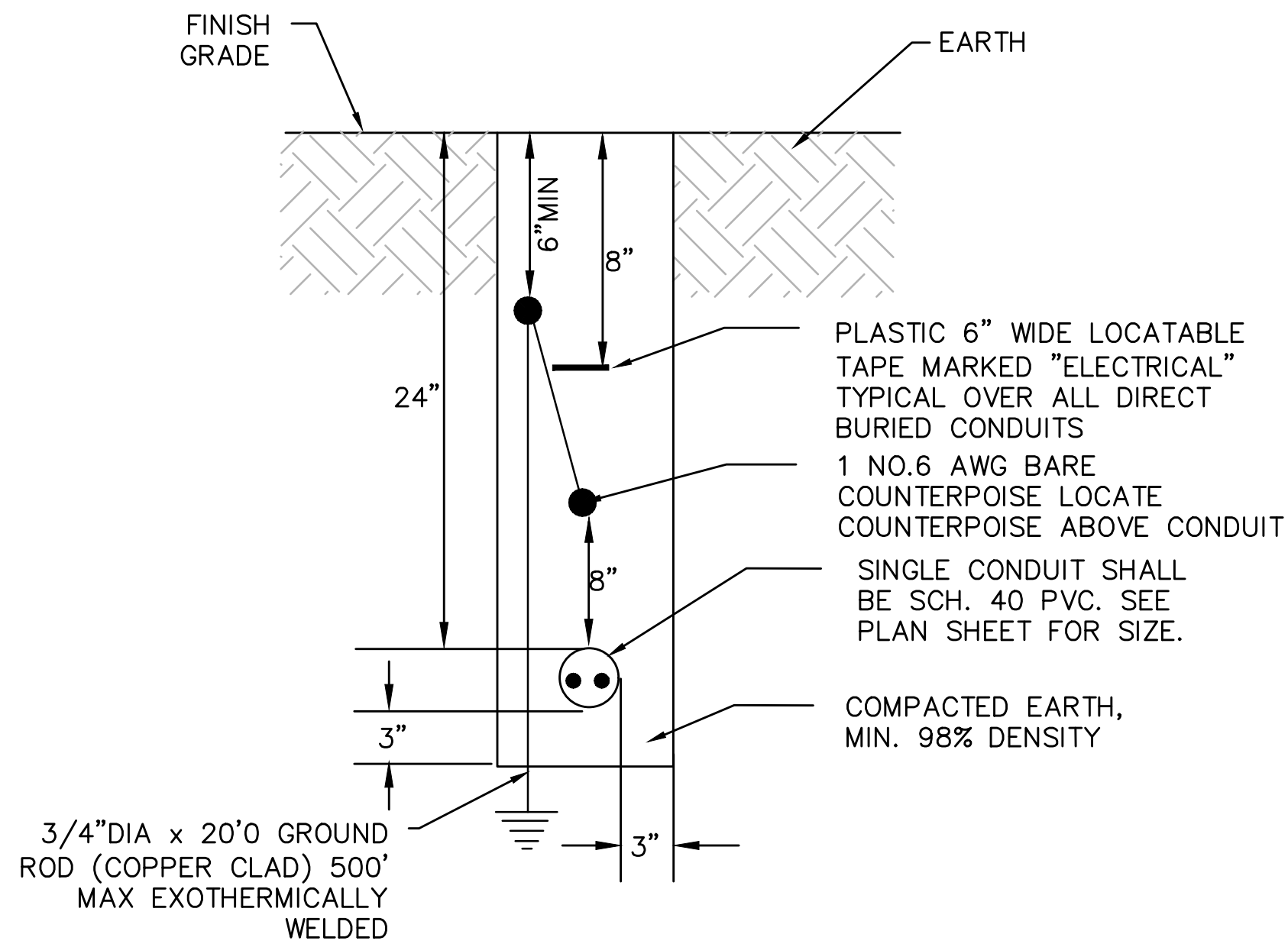
SCALE:
AS NOTED

DATE:

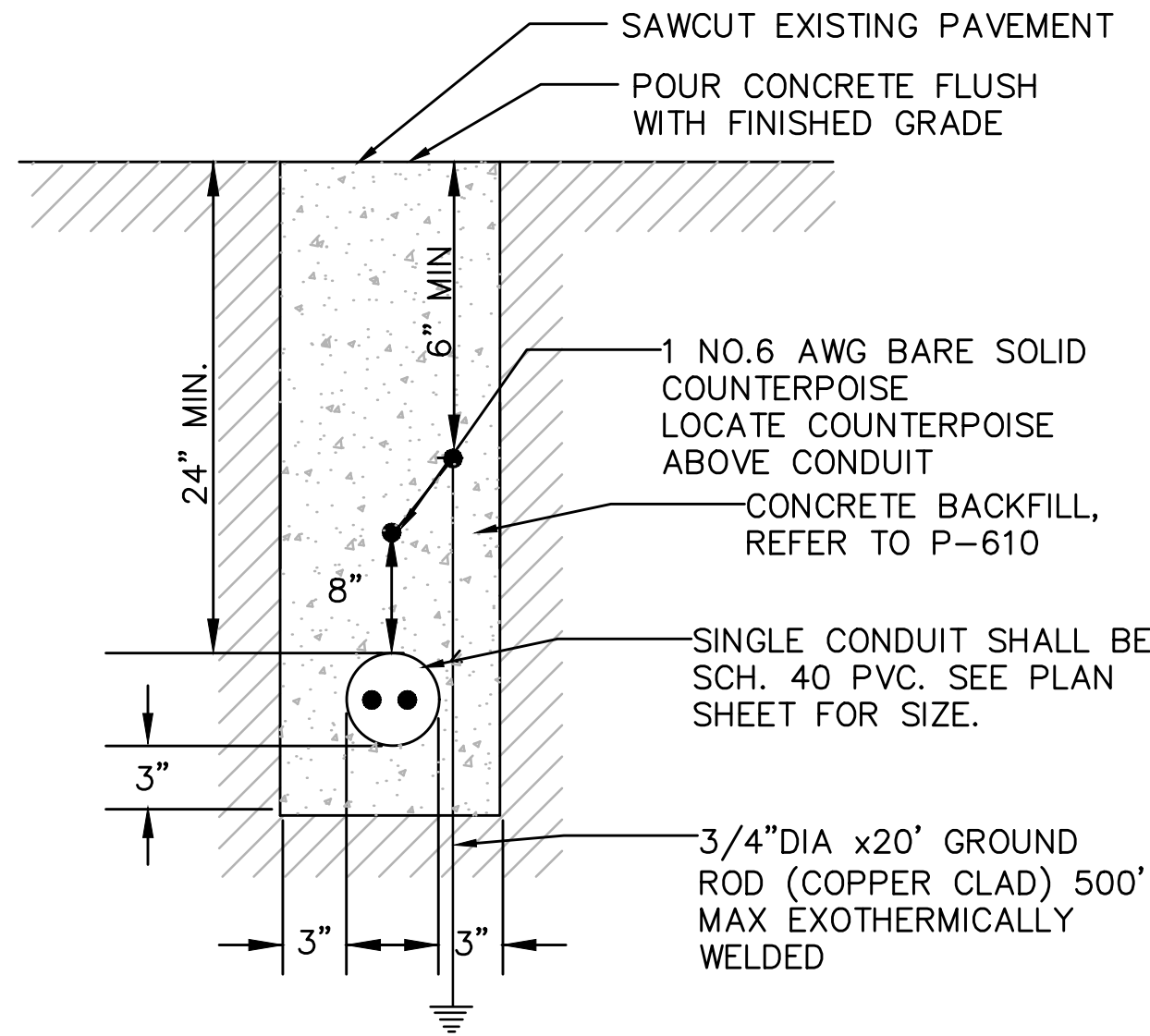
ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:

TEL: 561-840-0825
FAX:

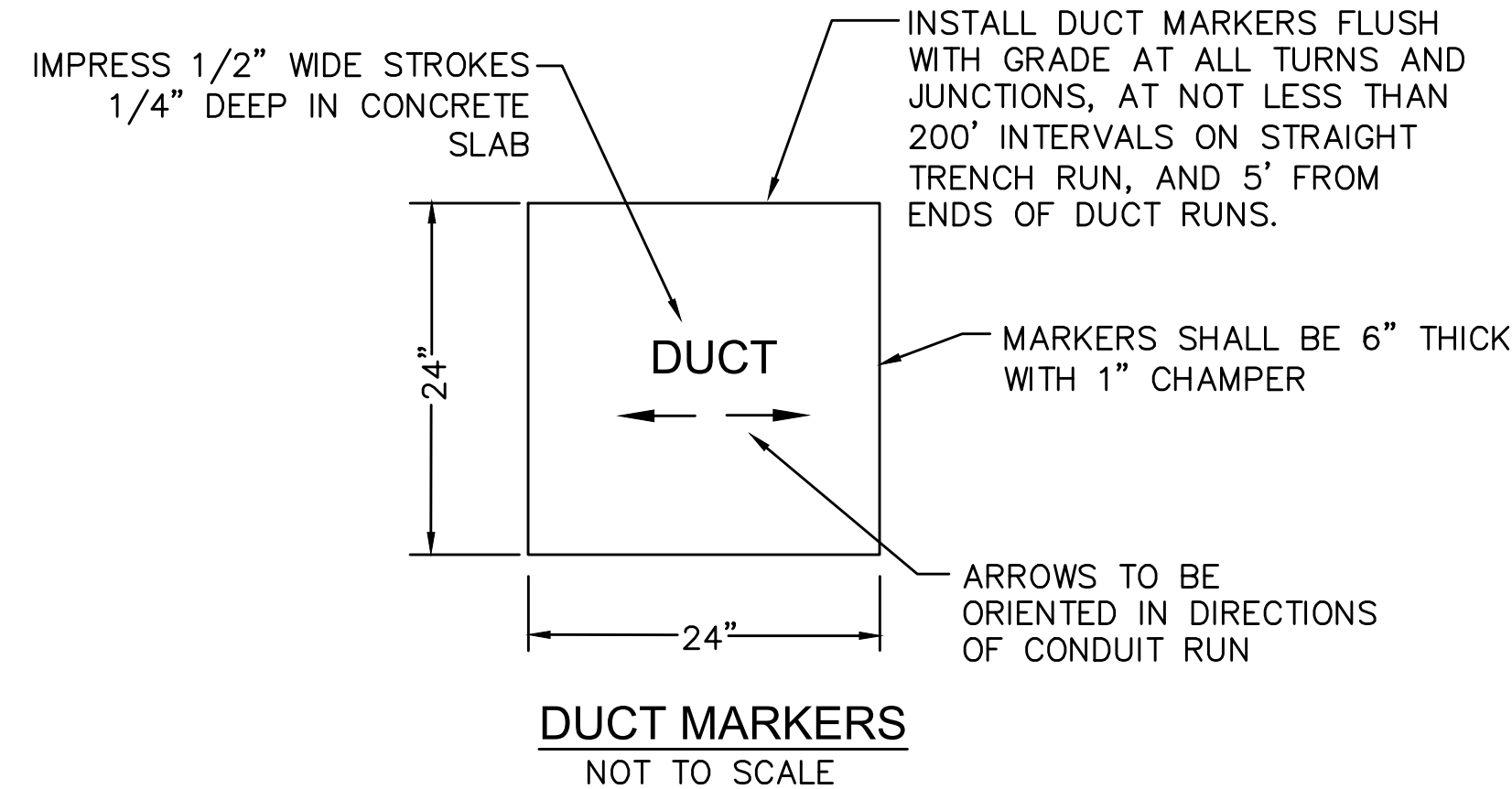
C:\USERS\ACHAM\QEE DROPBOX\QUANTUM PROJECTS\KHA KIMLEY HORN\KHA2401_FXE RW 9-27_REHAB\DWG\BID\12764-E501-DETL.DWG



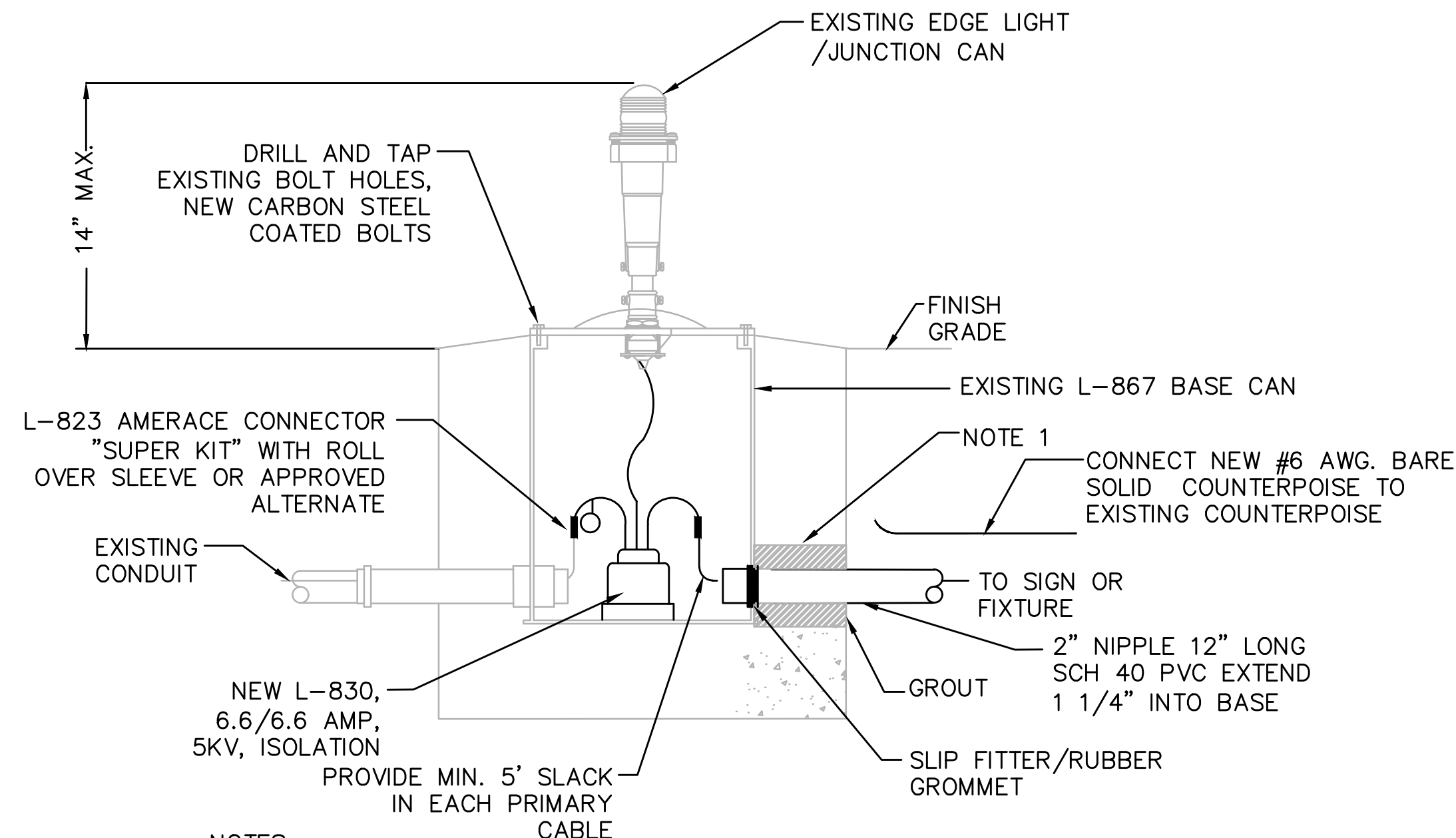
TYPICAL CONDUIT INSTALLATIONS IN EARTH
NOT TO SCALE



TYPICAL CONDUIT INSTALLED IN EXISTING
FULL STRENGTH PAVEMENT
NOT TO SCALE



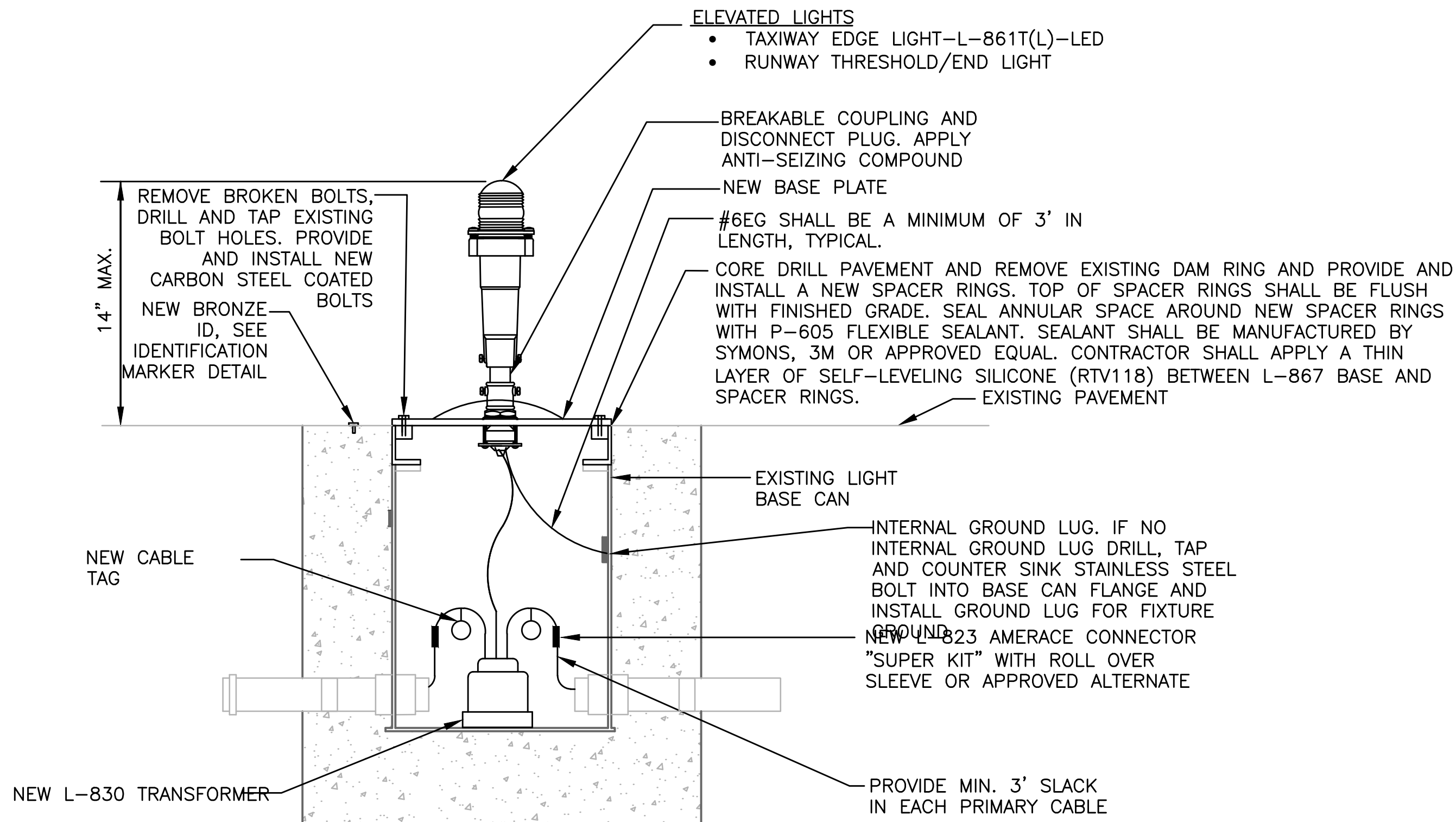
DUCT MARKERS
NOT TO SCALE



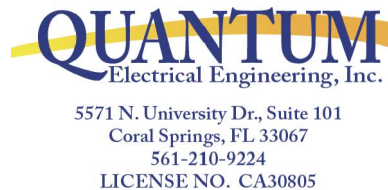
NOTES

1. USE CORE DRILL TO PENETRATE BASE CAN ANCHOR.
2. USE HOLE SAW TO CUT HOLE IN BASE CAN. REPAIR DAMAGED GALVANIZED SURFACES. PROTECT EXISTING CABLES, TRANSFORMERS, ETC. FROM DAMAGE.
3. TERMINATE CONDUIT IN BASE CAN UTILIZING AN ENDBELL AND SLIP FITTER/RUBBER GROMMET.
4. FOR EDGE LIGHTS LOCATED IN SHOULDER PAVEMENT BACKFILL CONDUIT TRENCH WITH P-610.
5. PROVIDE AND INSTALL TRANSFORMER AND CONNECTOR KITS.

EXTENDING DUCT/CONDUIT FROM EXISTING L-867 BASE CAN
NOT TO SCALE



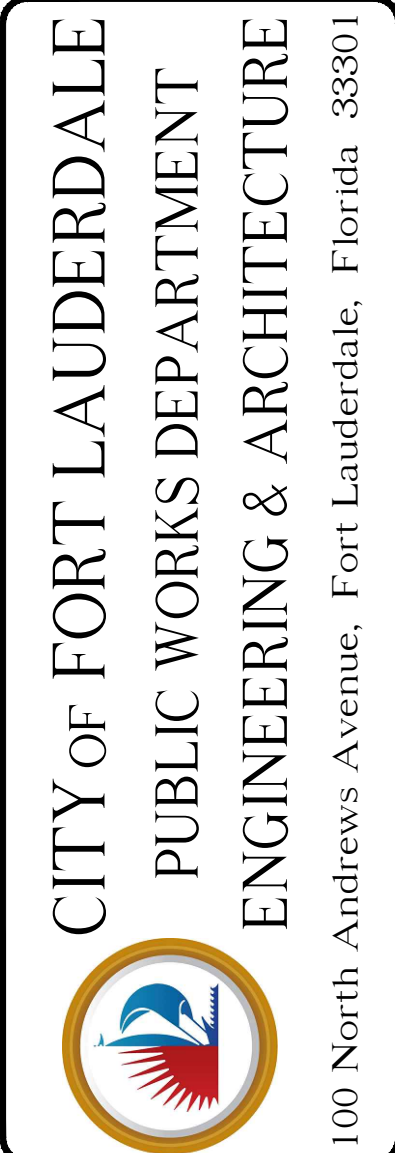
NEW ELEVATED TAXIWAY/RUNWAY LIGHT INSTALLED
ON EXISTING BASE CAN
NOT TO SCALE



BID SET

ENGINEER: AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:
DRAWN BY: MFB
DESIGNED BY: SCALE:
CHECKED BY: JWK
DATE: 6/7/24
FIELD BOOK: 33301

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



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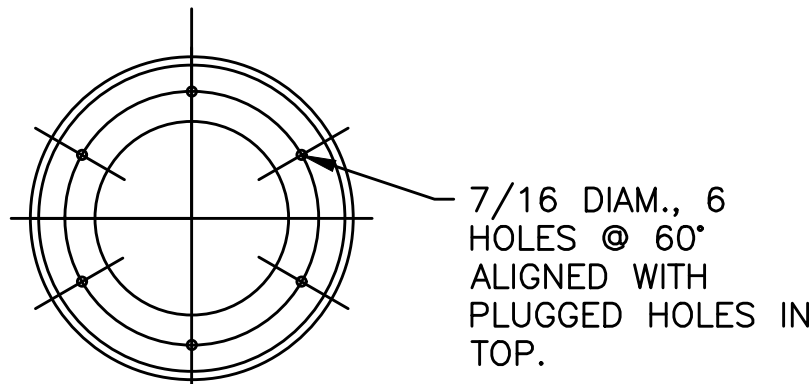
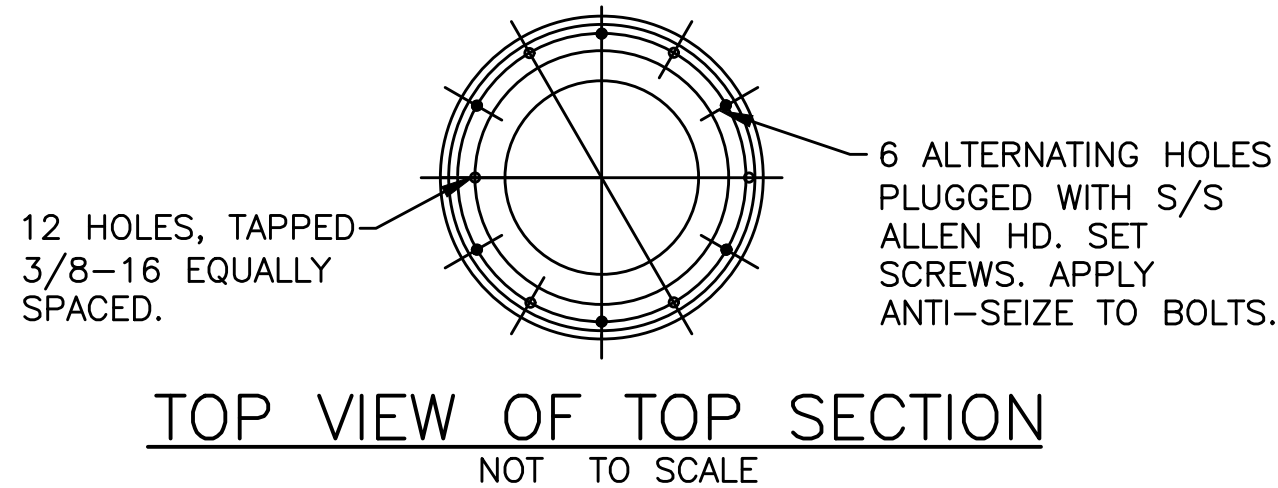
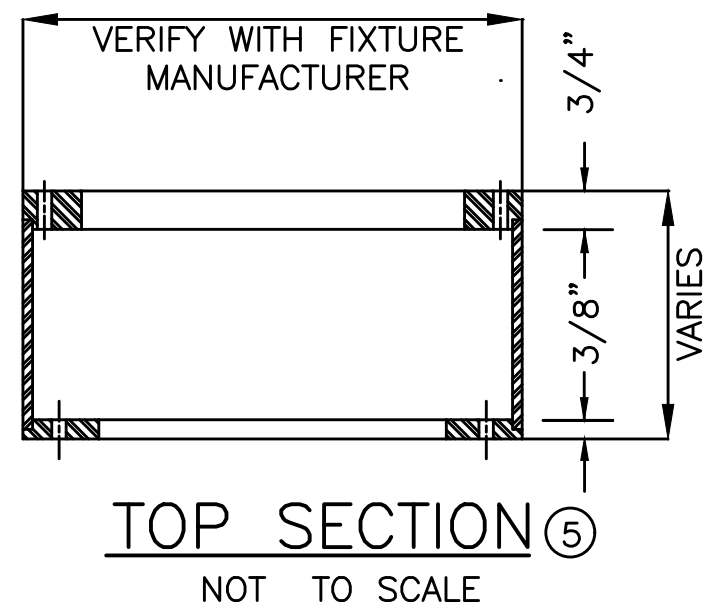
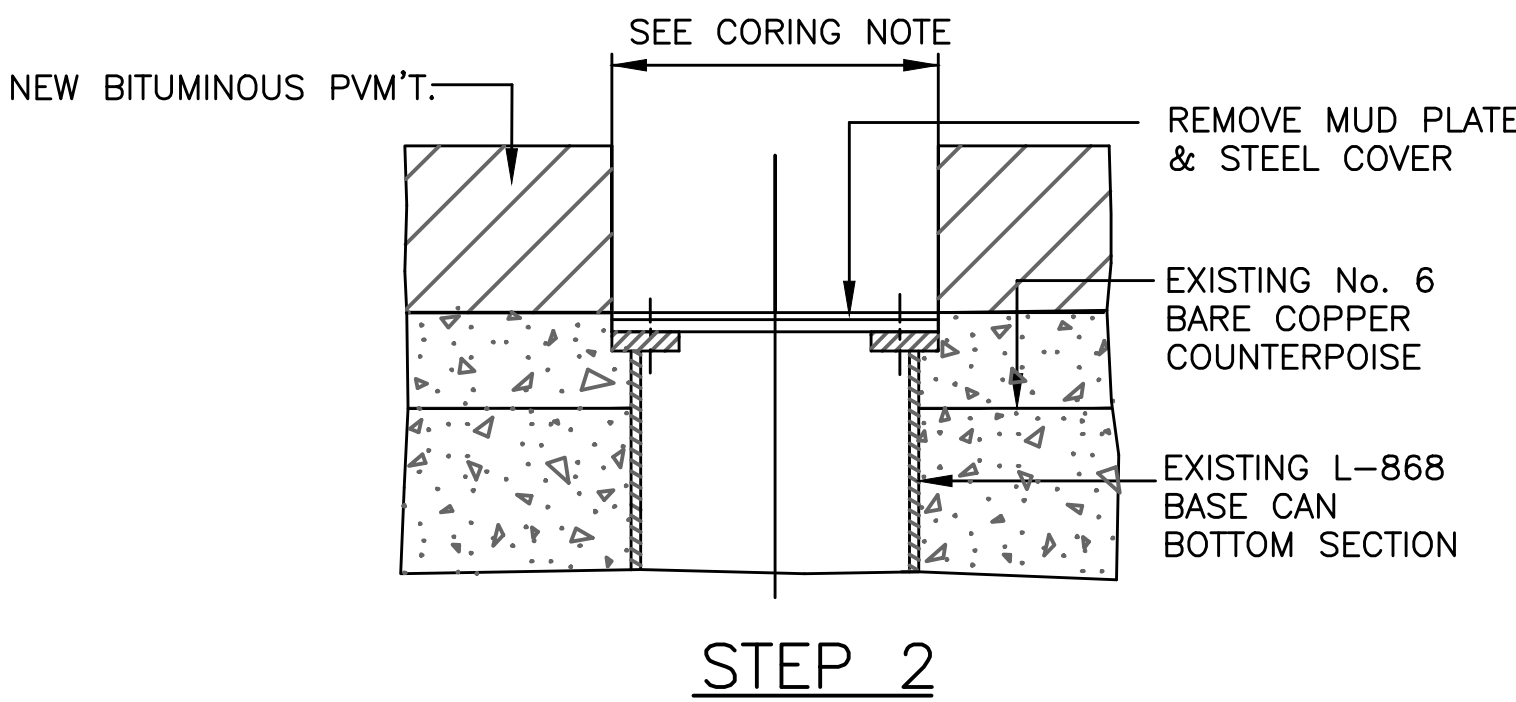
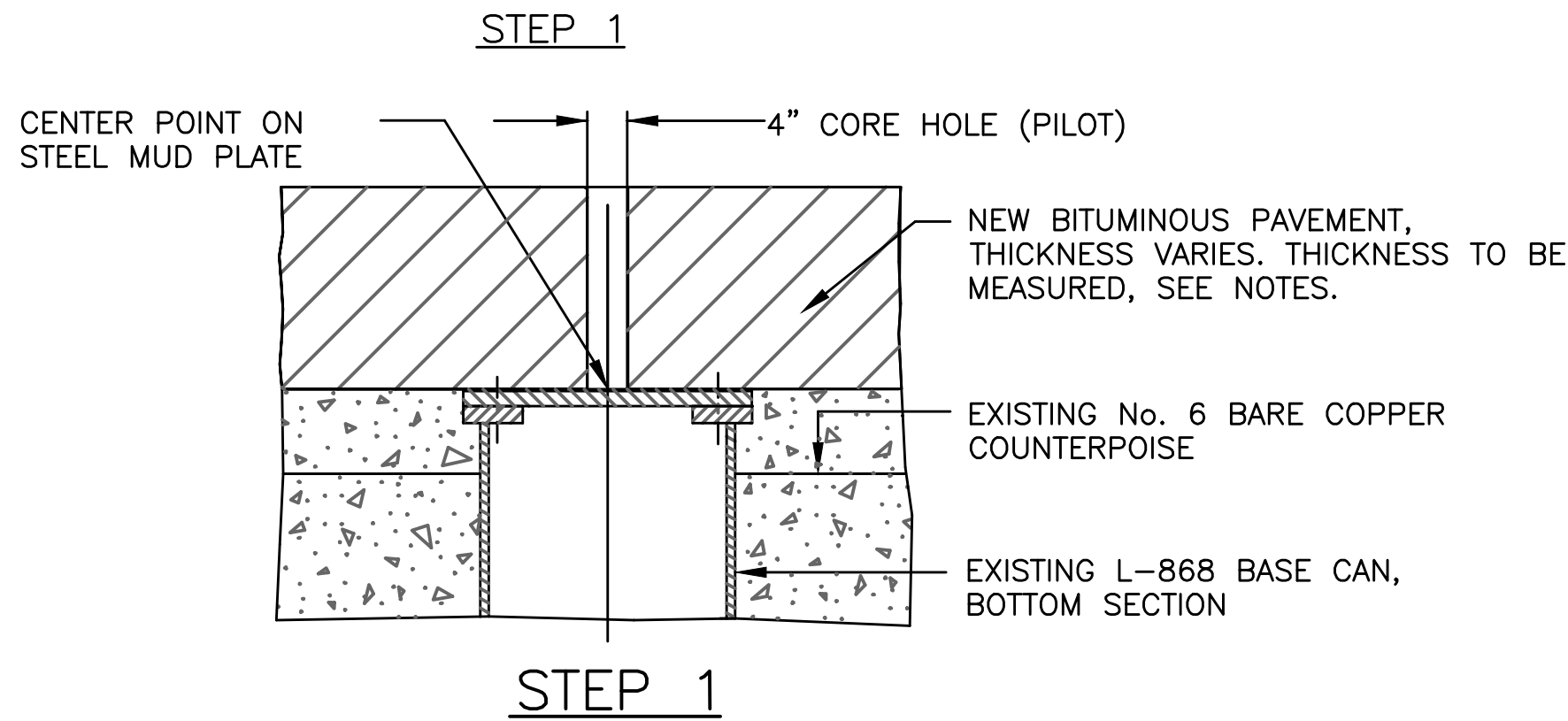
PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL DETAILS

SHEET NO. E501 OF 110
TOTAL: 110
CAD FILE: 12764-E501-DETL
DRAWING FILE NO.

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.
- 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.
- 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.

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.



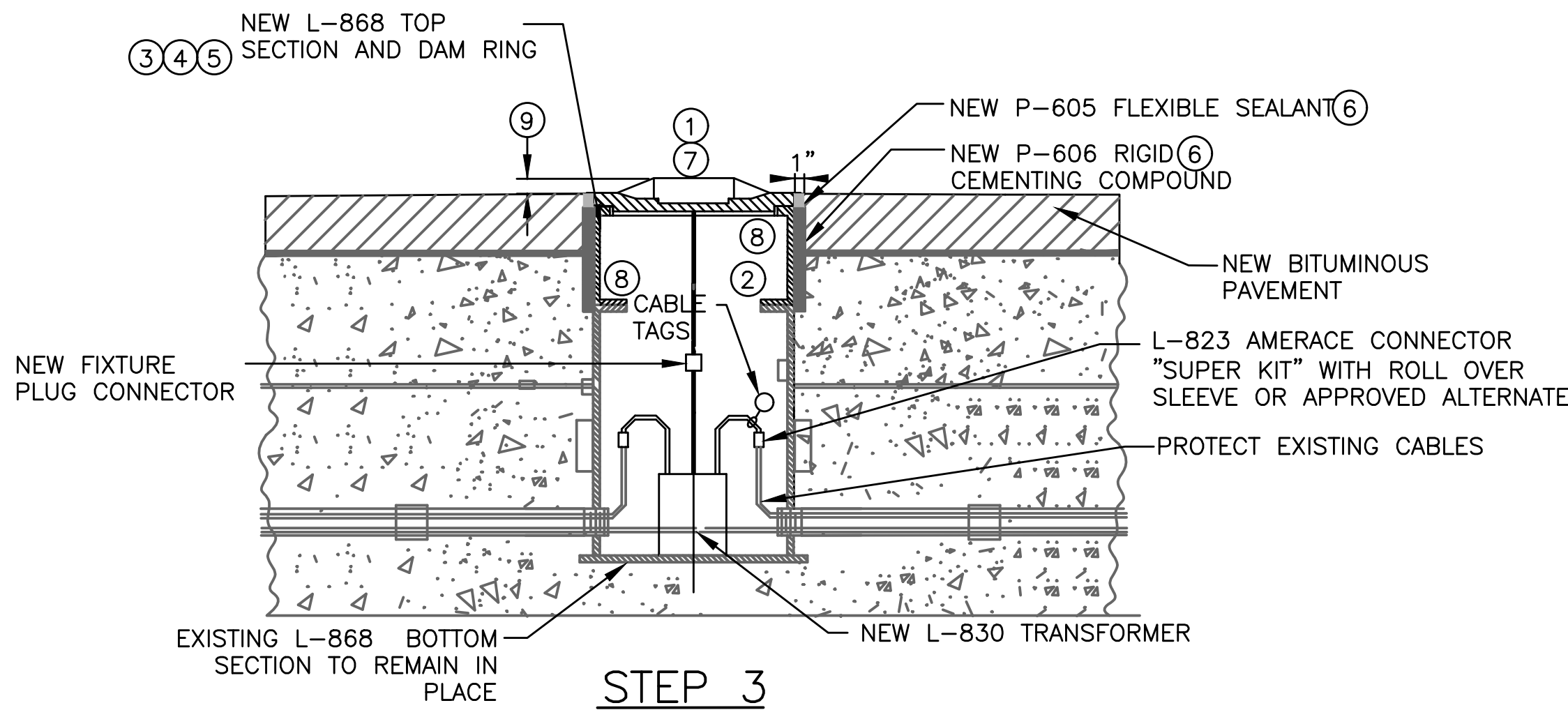
BOTTOM VIEW OF TOP SECTION

FAA SPEC. L-868 CLASS I

NOT TO SCALE

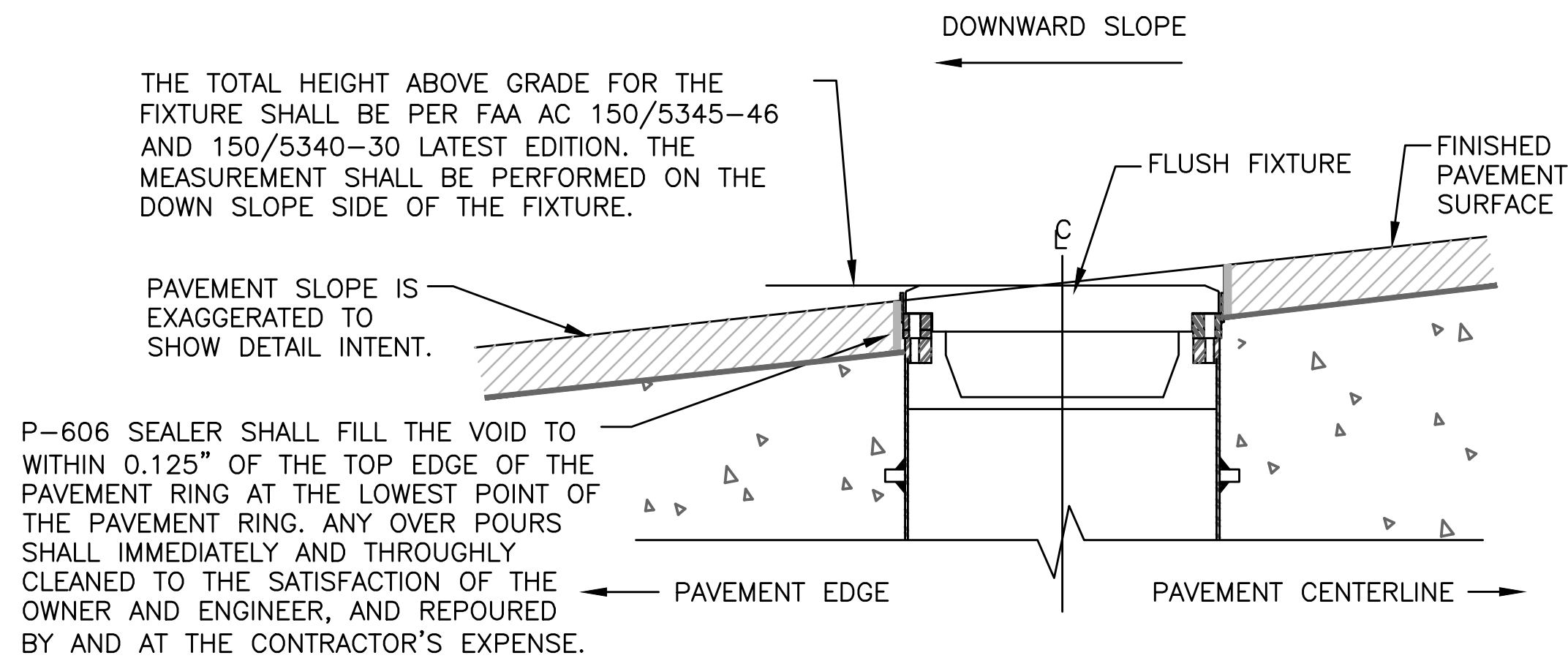
NOTES:

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



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

NOT TO SCALE
TYPICAL L-850C



P-606 SEALER SHALL FILL THE VOID TO WITHIN 0.125" OF THE TOP EDGE OF THE PAVEMENT RING AT THE LOWEST POINT OF THE PAVEMENT RING. ANY OVER POURS SHALL IMMEDIATELY AND THOROUGHLY CLEANED TO THE SATISFACTION OF THE OWNER AND ENGINEER, AND REPOURED BY AND AT THE CONTRACTOR'S EXPENSE.

ENGINEER: AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:
TEL: 561-840-0825
FAX:

DRAWN BY: MFB
DATE: 6/7/24
DESIGNED BY: SCALE: ALC
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 # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL DETAILS

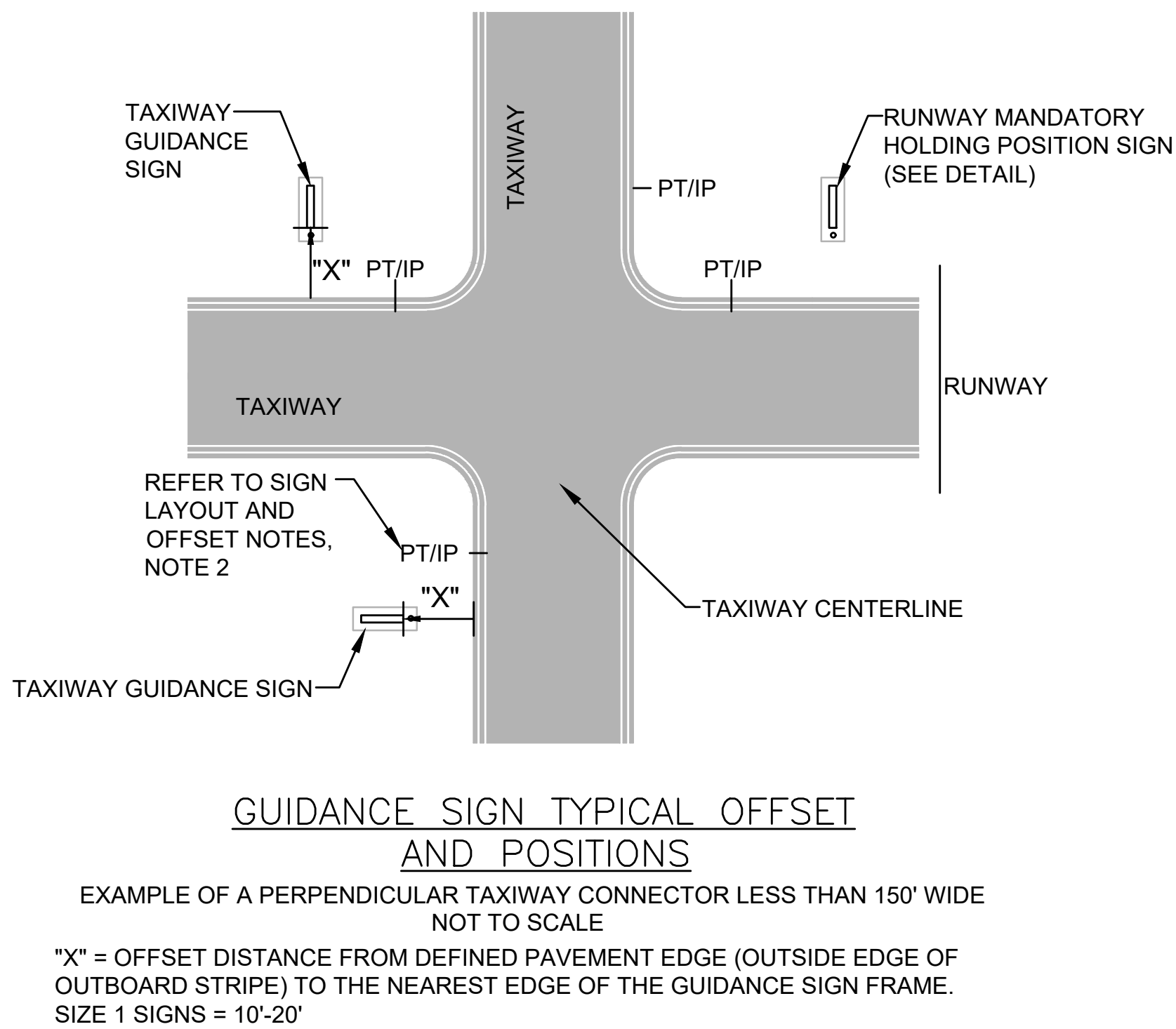
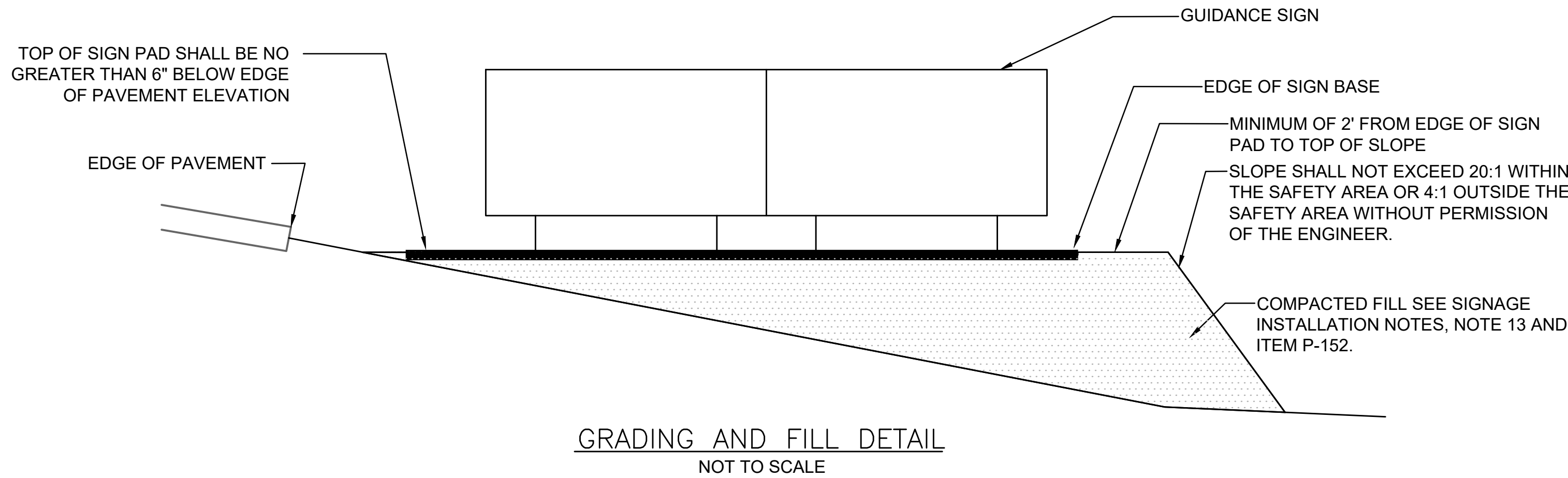
SHEET NO. OF
E502 110
TOTAL:
CAD FILE:
12764-E502-DETL
DRAWING FILE NO.

Kimley-Horn
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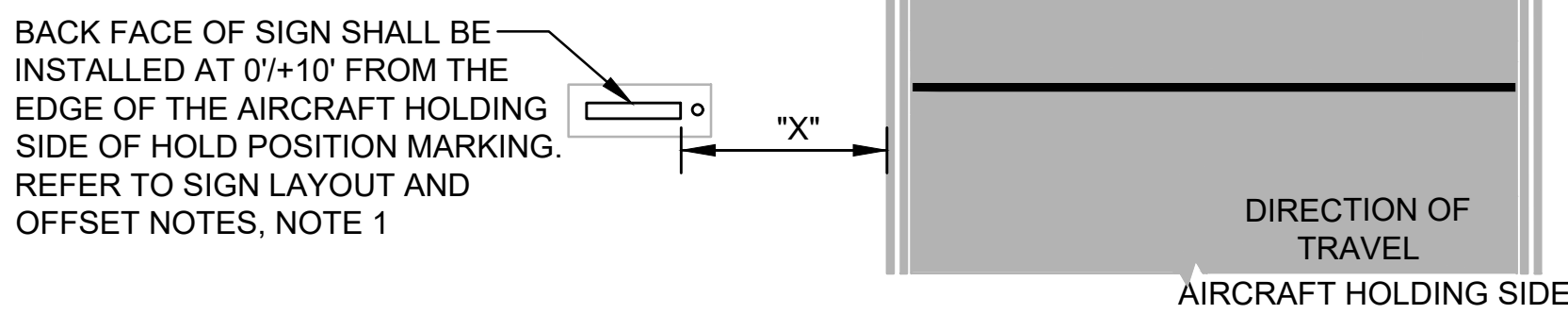
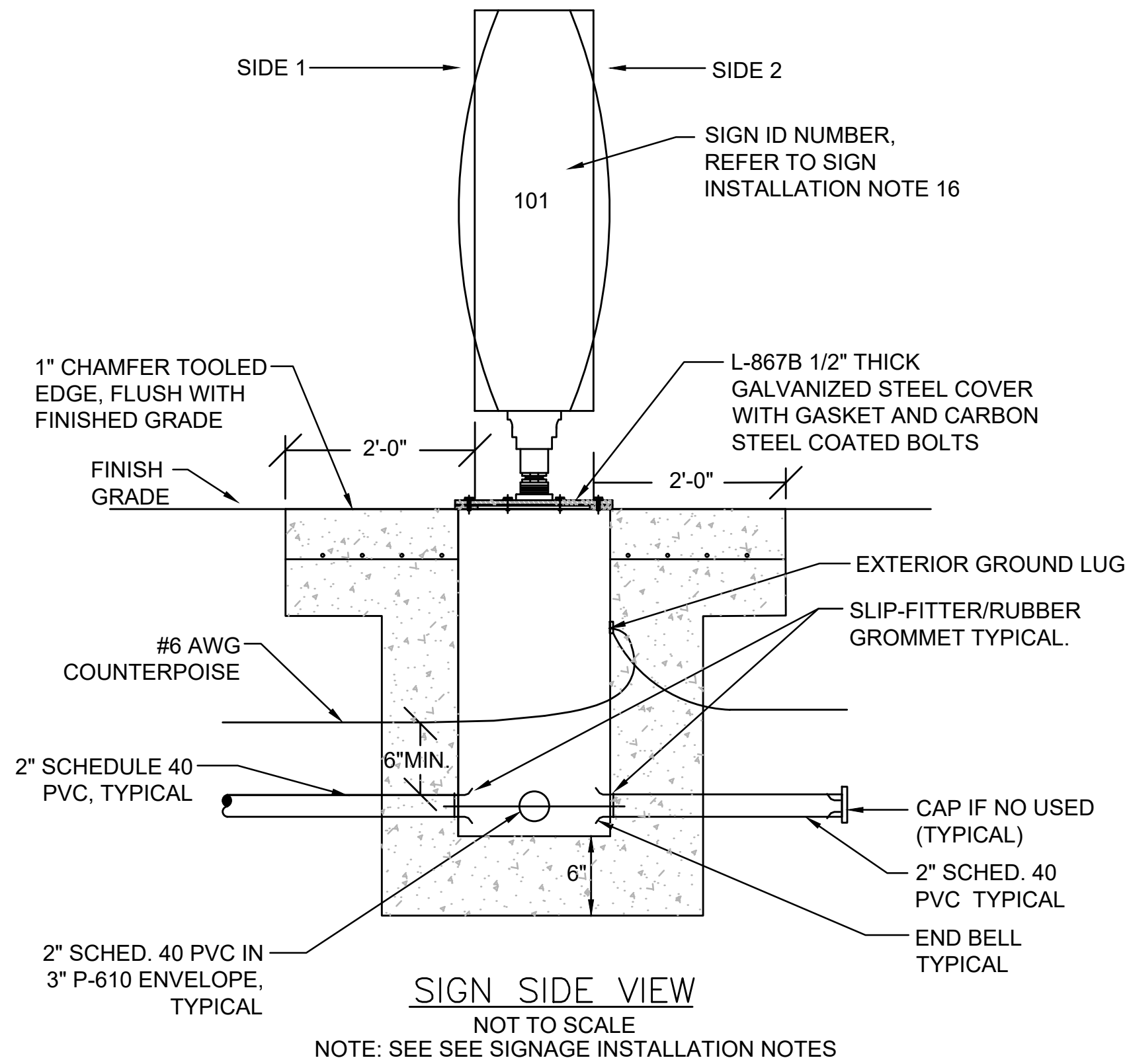
BID SET

C:\USERS\ACHAM\QEE DROPBOX\QUANTUM PROJECTS\KHA KIMLEY HORN\KHA2401 FXE RW 9-27 REHAB\DWG\BID\12764-E504-DETL.DWG



SIGN LAYOUT AND OFFSET NOTES:

1. RUNWAY MANDATORY HOLDING POSITION SIGNS AND ILS POSITION SIGNS ARE LOCATED IN-LINE WITH THE FIRST STRIPE CLOSEST TO THE TAXIWAY CENTERLINE OF THE HOLDING POSITION MARKINGS WITH A TOLERANCE OF +10FT FARTHER AWAY FROM HOLD POSITION MARKING, SEE FAA AC150/5340-18, LATEST EDITION.
2. 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.
3. ALL SIZE 1 SIGNS SHALL BE INSTALLED AT 25" 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.



RUNWAY MANDATORY HOLDING POSITION SIGN LAYOUT DETAIL

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 = 10'-20'

Kimley-Horn
Kimley-Horn and Associates, Inc.
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BID SET

ENGINEER: AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:
DRAWN BY: MFB
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ALC AS NOTED
CHECKED BY: JWK
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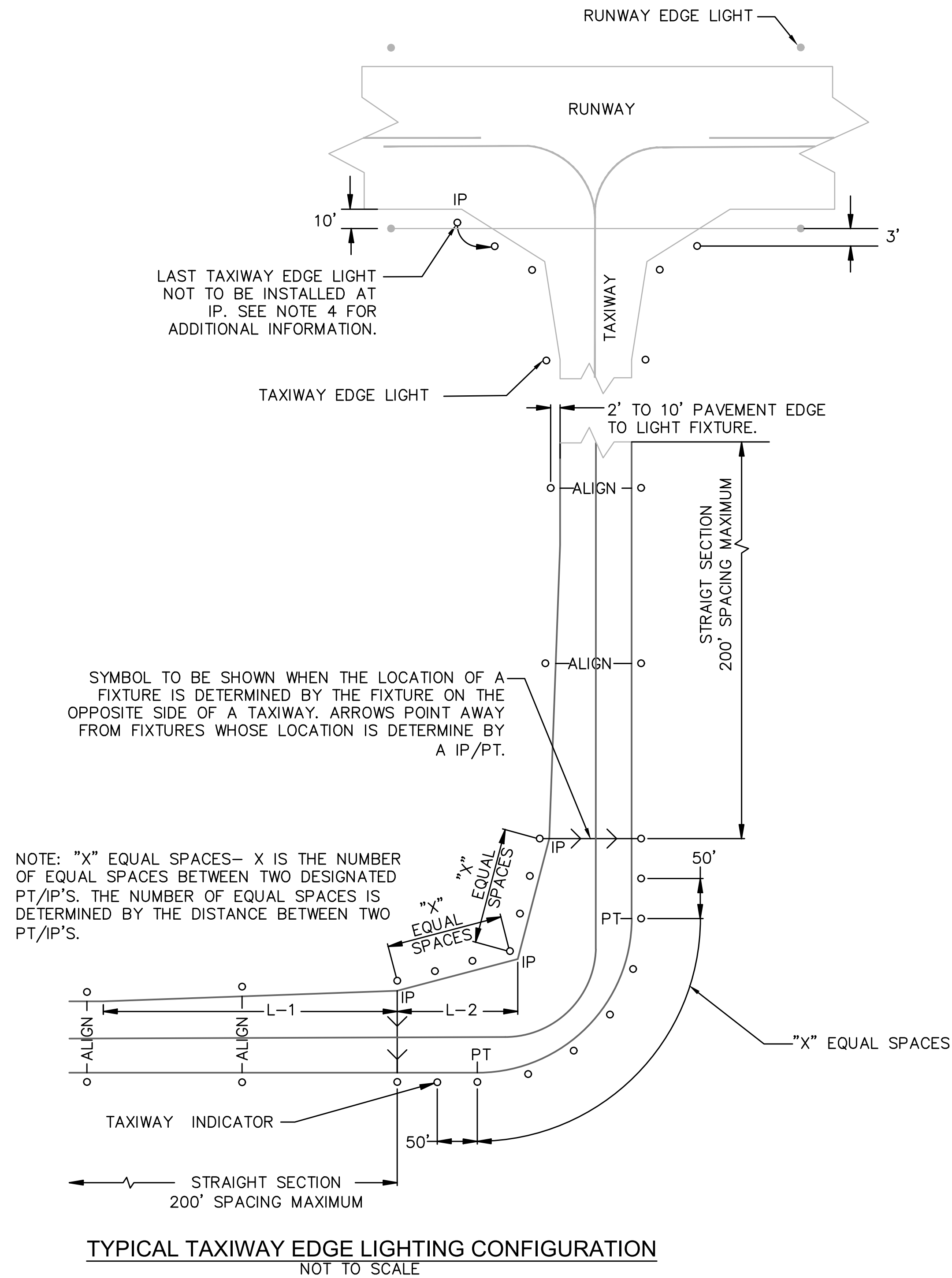
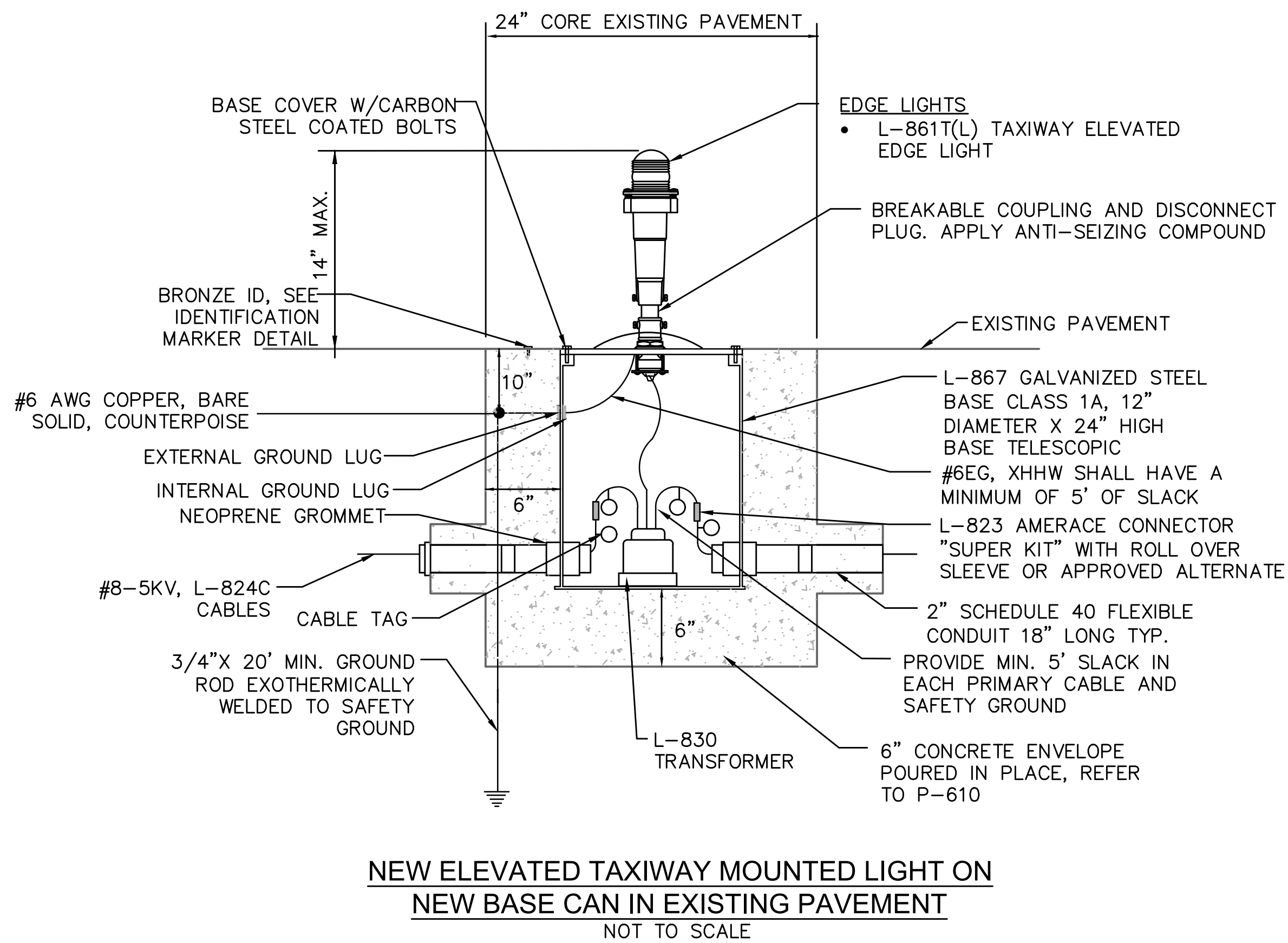
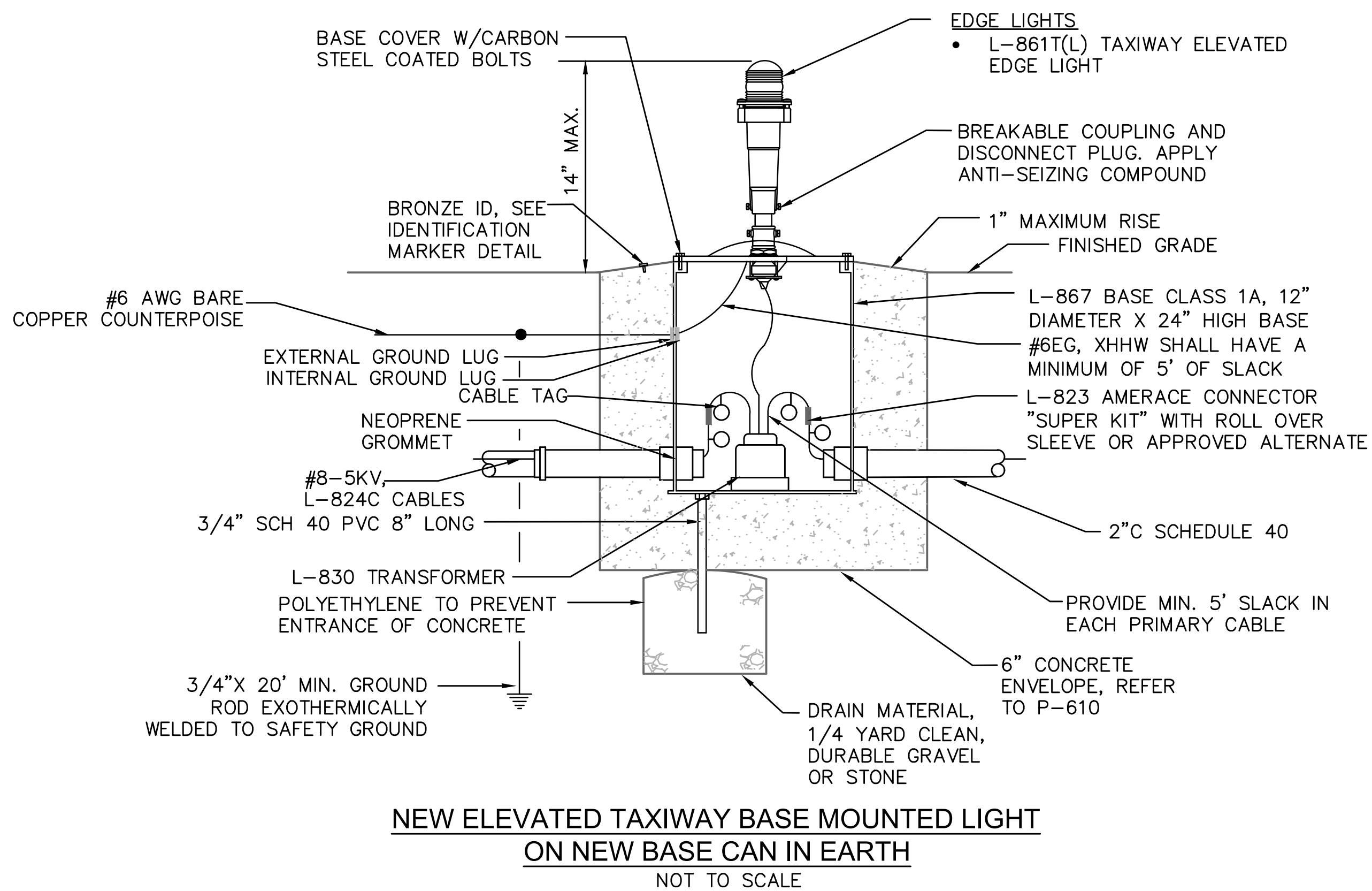
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	REVISIONS		DESCRIPTION
	DATE	BY	

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL DETAILS

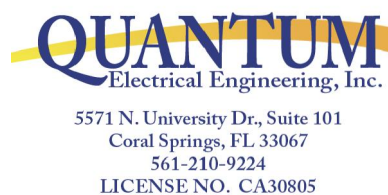
SHEET NO. OF
E504
TOTAL: 110
CAD FILE:
12764-E504-DETL
DRAWING FILE NO.

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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.



BID SET

ENGINEER: AMY CHAMPAGNE-BAKER
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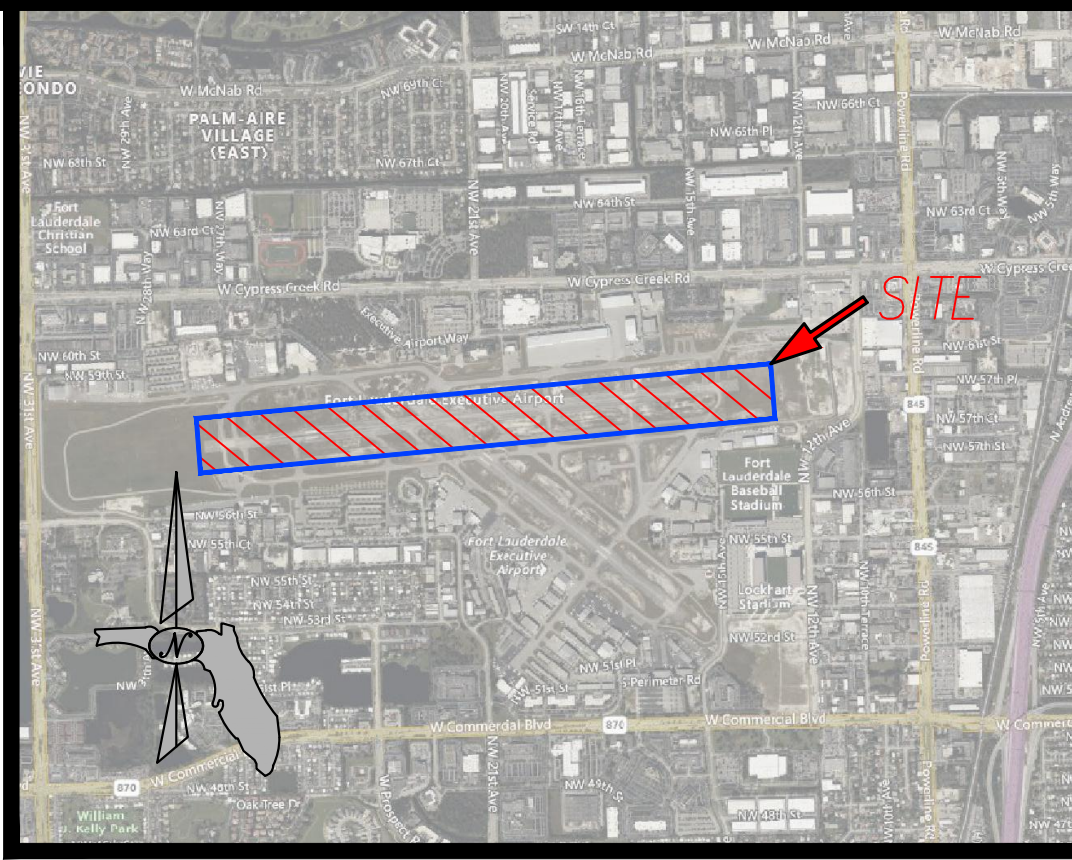
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CITY OF FORT LAUDERDALE
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ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL DETAILS - ADD ALT 1

SHEET NO. 110 OF
E505A
TOTAL: 110
CAD FILE: 12764-E505A-DET1-ALT1
DRAWING FILE NO.



VICINITY MAP
NOT TO SCALE

SURVEY REPORT:

1. THIS IS A SPECIFIC PURPOSE SURVEY, PREPARED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF THE STANDARDS OF PRACTICE SET FORTH IN RULE 5J-17.051 THROUGH 5J-17.053, FLORIDA ADMINISTRATIVE CODE. THE FIELD WORK WAS COMPLETED ON APRIL 26, 2024
- THIS IS NOT A BOUNDARY SURVEY.
2. THE SURVEY WAS BASED ON AIRPORT PACS & SACS CONTROL & DIRECTION FROM THE CLIENT.
3. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT.
- NO SEARCH OF THE PUBLIC RECORDS HAS BEEN PERFORMED BY BROWN & PHILLIPS, INC.
- THERE MAY BE ADDITIONAL EASEMENTS AND/OR RESTRICTIONS NOT SHOWN ON THIS SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF PALM BEACH COUNTY.
4. THIS SURVEY WAS PREPARED FOR THE SPECIFIC PURPOSE OF SHOWING THE EXISTING CONDITIONS.
5. THE CONTRACTED PURPOSE OF THIS SURVEY IS FOR DESIGN OF AIRPORT IMPROVEMENTS. THIS SURVEY IS NOT VALID FOR ANY OTHER USE.
6. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
7. THIS SURVEY WAS PREPARED FOR THE PARTIES LISTED BELOW AND IS NOT ASSIGNABLE:
-KIMLEY-HORN
-BROWARD COUNTY AVIATION DEPARTMENT
- THE USE OF THE DATA SHOWN HEREON BY ANY OTHER PARTY IS PROHIBITED.
8. THIS MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1"=40', ON A 24"x 36" SHEET.
9. SOME TOPOGRAPHIC FEATURES MAY BE EXAGGERATED IN SCALE FOR CLARITY. THE CENTER OF THE SYMBOL OF SUCH FEATURES IS THE CORRECT LOCATION.
10. NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS HAVE BEEN LOCATED AS PART OF THIS SURVEY.
11. ELEVATIONS SHOWN HEREON ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988, AND ARE REFERENCED TO FORT LAUDERDALE EXECUTIVE AIRPORT BENCHMARK "11127", ELEVATION=11.65'.
12. $x^{0.0}$ DENOTES SPOT ELEVATION, REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988.
13. FLOOD ZONE INFORMATION OBTAINED FROM FEMA'S NATIONAL FLOOD HAZARD WEBSITE:
"https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd";
CURRENT FLOOD ZONE: "AH"
14. THE UNDERLYING 2020 BROWARD COUNTY AERIAL PHOTO IS SHOWN FOR INFORMATION ONLY AND IS NOT A PART OF THE SURVEY.
15. © COPYRIGHT 2024 BY BROWN & PHILLIPS, INC.
REPRODUCTIONS OF THIS SURVEY ARE NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND STAMP, OR A DIGITALLY VERIFIED ELECTRONIC SIGNATURE AND SEAL, OF A FLORIDA LICENSED SURVEYOR AND MAPPER EMPLOYED BY BROWN & PHILLIPS, INC.

- ABBREVIATIONS:**
- | | |
|-----------------------------------|---------------------------------------|
| P.O.C. - POINT OF COMMENCEMENT | IP - IRON PIPE |
| P.O.B. - POINT OF BEGINNING | C.M. - 4"x4" CONCRETE MONUMENT |
| P.B. - PLAT BOOK | N/D - NAIL & DISK |
| ORB - OFFICIAL RECORD BOOK | NTT - NAIL & TIN TAB |
| D.B. - DEED BOOK | PK - PARKER KALON NAIL |
| PG. - PAGE | PRM - PERMANENT REFERENCE MONUMENT |
| R/W - RIGHT-OF-WAY | NAD - NORTH AMERICAN DATUM |
| CL - CENTERLINE | LB - LICENSED BUSINESS |
| R - RADIUS | WM - WATER MAIN |
| Δ - CENTRAL ANGLE | TOW - TOP OF WALL |
| A - ARC LENGTH | EL. - ELEVATION |
| U.E. - UTILITY EASEMENT | INV - INVERT |
| D.E. - DRAINAGE EASEMENT | BTM - BOTTOM |
| (P) - PLAT DIMENSION | DIP - DUCTILE IRON PIPE |
| (D) - DEED DIMENSION | PVC - POLYVINYL CHLORIDE PIPE |
| (M) - MEASURED DIMENSION | CMP - CORRUGATED METAL PIPE |
| U/G - UNDERGROUND | RCP - REINFORCED CONCRETE PIPE |
| IR - IRON ROD | HDPE - HIGH DENSITY POLYETHYLENE PIPE |
| IR/C - IRON ROD WITH CAP AS NOTED | DBH - DIAMETER at BREAST HEIGHT |

LEGEND	
BENCHMARK	⊕
BACKFLOW PREVENTER	⊕
BLUE TAXIWAY LIGHT	⊕
BOLLARD	⊕
BORING	⊕
CANISTER	⊕
CATCH BASIN	⊕
CLEANOUT	⊕
CONCRETE LIGHT POLE	⊕
ELECTRIC BOX	⊕
ELECTRIC PANEL	⊕
GATE POST	⊕
KEYPAD	⊕
LIGHT	⊕
MANHOLE DRAINAGE	⊕
METAL LIGHT POLE	⊕
METAL POST	⊕
SENSOR	⊕
SEWER VALVE	⊕
SIGN	⊕
TRAFFIC SIGNAL BOX	⊕
TRANSFORMER	⊕
U.G. CABLE MARKER	⊕
WATER METER	⊕
WATER VALVE	⊕
FENCE-CHAINLINK	⊕
EDGE OF WATER	⊕
TOE OF SLOPE	⊕
TOP OF BANK	⊕
U/G LOCATES-RED PAINT	⊕
U/G LOCATES-UNKNOWN	⊕
ASPHALT	⊕
BUILDING	⊕
CONCRETE	⊕
STAIRS	⊕



BROWN & PHILLIPS, INC.
PROFESSIONAL SURVEYING SERVICES
CERTIFICATE OF AUTHORIZATION # LB 6473
1860 OLD OKEECHOBEE ROAD, SUITE 509, WEST PALM BEACH, FLORIDA 33409 561-615-3988

DATE	REVISIONS	#

SKETCH OF
SPECIFIC PURPOSE
SURVEY

FORT LAUDERDALE
EXECUTIVE AIRPORT
REHABILITATION PROJECT

DRAWN: PL
CHECKED: JP
F.B. #24-3
PAGES: 22-26

PROJ. #-
SCALE: NA
DATE: MAY 2024
SHEET 1 of 8

JOHN E. PHILLIPS III
PROFESSIONAL LAND SURVEYOR
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1860 OLD OKEECHOBEE ROAD, SUITE 509, WEST PALM BEACH, FLORIDA 33409 561-615-3988

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FORT LAUDERDALE
EXECUTIVE AIRPORT
REHABILITATION PROJECT

DRAWN: PL
CHECKED: JP
F.B. #24-3
PAGES: 22-26

PROJ. #-
SCALE: 1"=40'
DATE: MAY 2024
SHEET 3 of 8

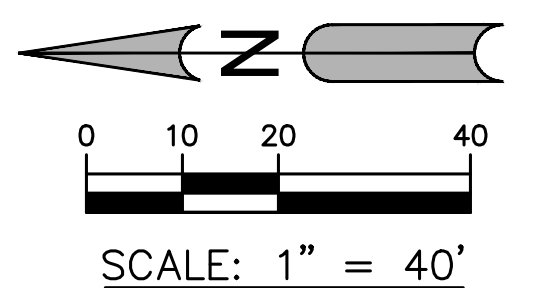
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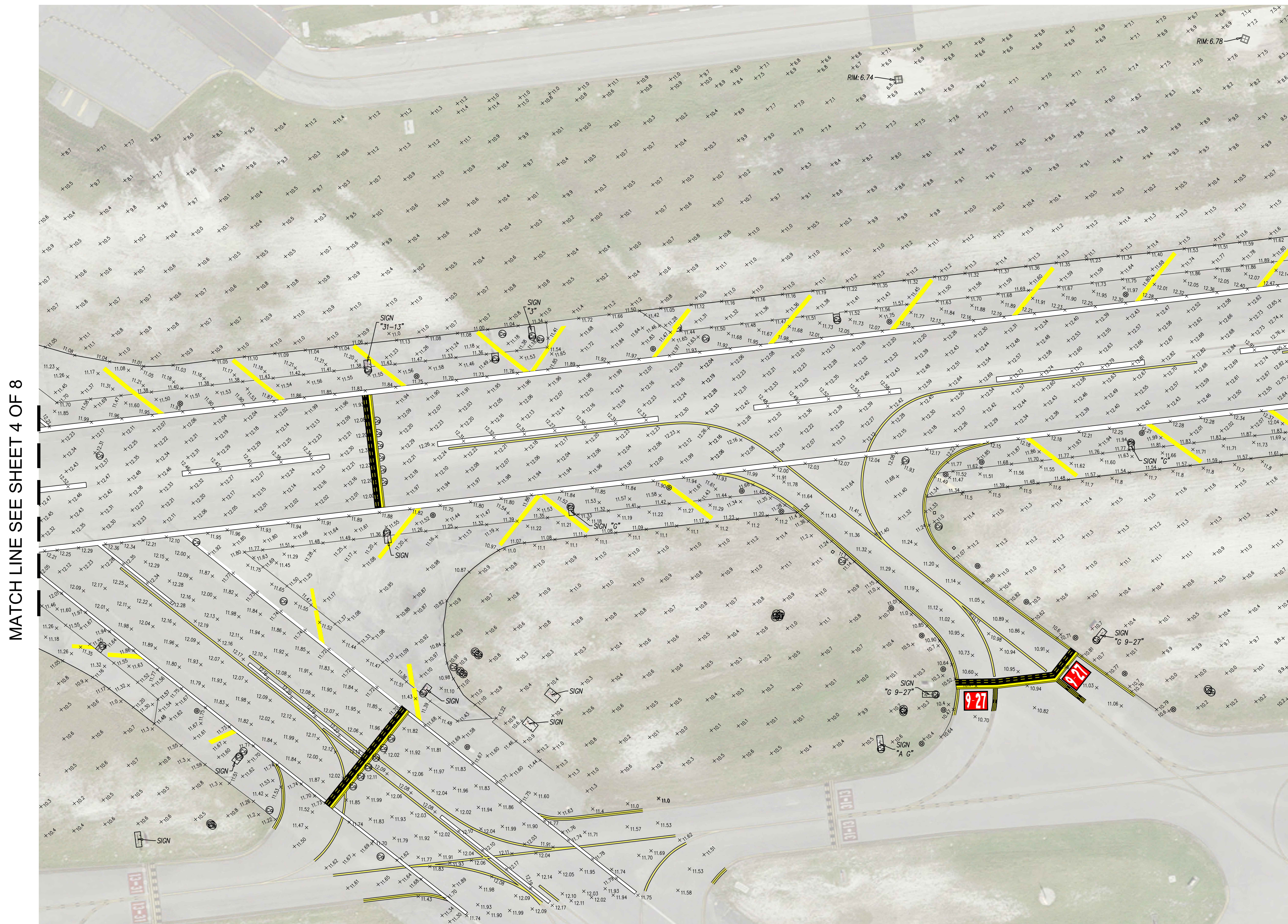
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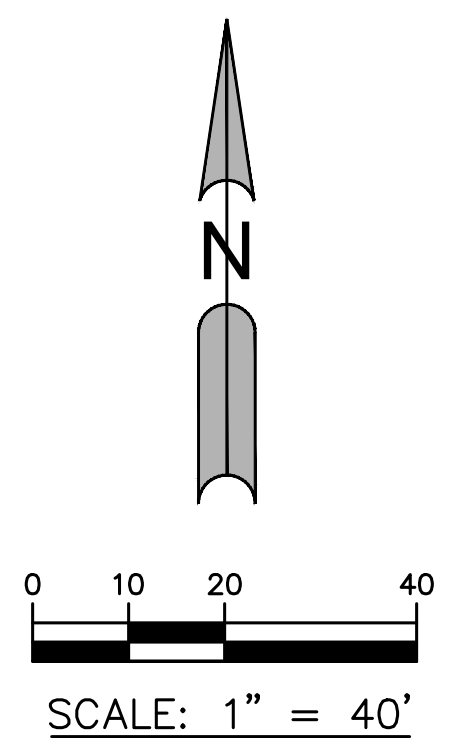
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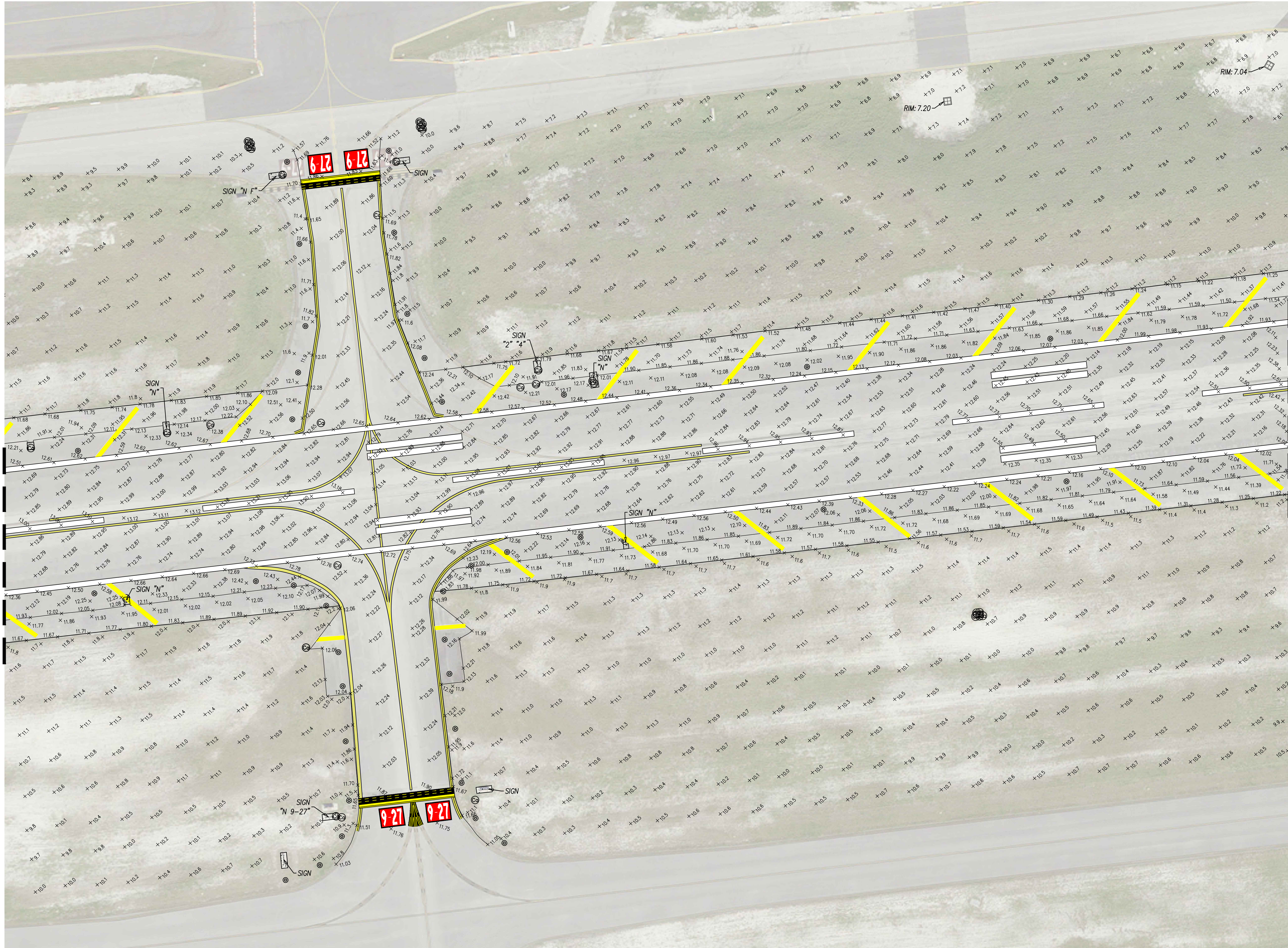
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SHEET 5 of 8



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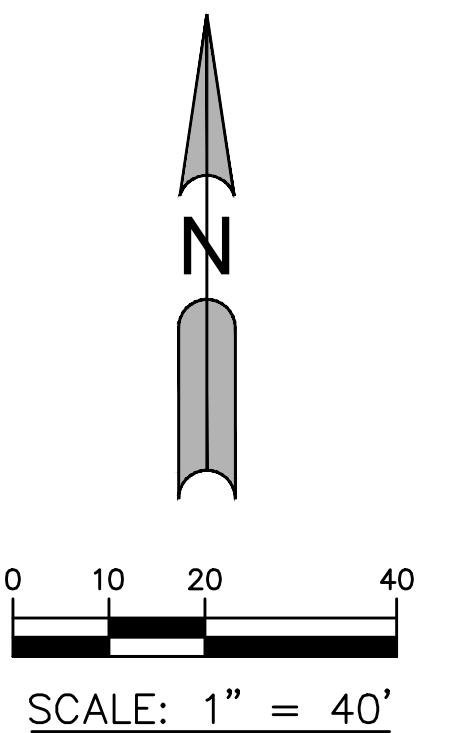
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SHEET 8 of 8





CONSTRUCTION SAFETY AND PHASING PLAN
Fort Lauderdale Executive Airport (FXE)
RUNWAY 9-27 REHABILITATION

July 7th, 2024

Bid Set

Prepared For:

City of Fort Lauderdale

Prepared By:

Kimley-Horn and Associates, Inc.

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GENERAL INFORMATION AND SCOPE OF WORK

This project is for improvements to address the pavement condition along the Primary Runway 9-27 at the Fort Lauderdale Executive Airport (FXE), located in Fort Lauderdale, Florida. The work outlined in this Construction Safety and Phasing Plan (CSPP) consists of the rehabilitation of Runway 9-27 by milling and overlaying asphalt pavement. This project consists of the following:

- Base Bid:
 - The milling and overlaying of approximately 70,000 square yards (SY) of Asphalt Mix Pavement on Primary Runway 9-27.
 - The milling and overlaying of approximately 27,000 square yards (SY) of Asphalt Mix Pavement on the shoulders of the primary Runway 9-27.
 - The milling and overlaying for 42 feet transitions areas and applying emulsified asphalt seal coat on Runway 9 and Runway 27 approach blast pads.
 - The milling and overlaying of approximately 7,000 square yards (SY) of Asphalt Mix Pavement on the crosswind Runway 13-31.
 - The milling and overlaying of approximately 2,500 square yards (SY) of Asphalt Mix Pavement on the shoulders of the crosswind Runway 13-31
 - The milling and overlaying for 42 feet transitions areas and applying emulsified asphalt seal coat on Runway 13 approach blast pads.
 - The milling and overlaying, and associated pavement transitions areas on Taxiways A1, A2, A3, A4, G, N (south), D (south), S, F10, D (north), N (north), F5, B, L, and P.
 - The milling and overlaying of approximately 1,300 square yards (SY) of Asphalt Mix Pavement on Taxiway C
- Add Alternate:
 - The milling, overlaying, and associated corrections of pavement geometry on Taxiways A1.

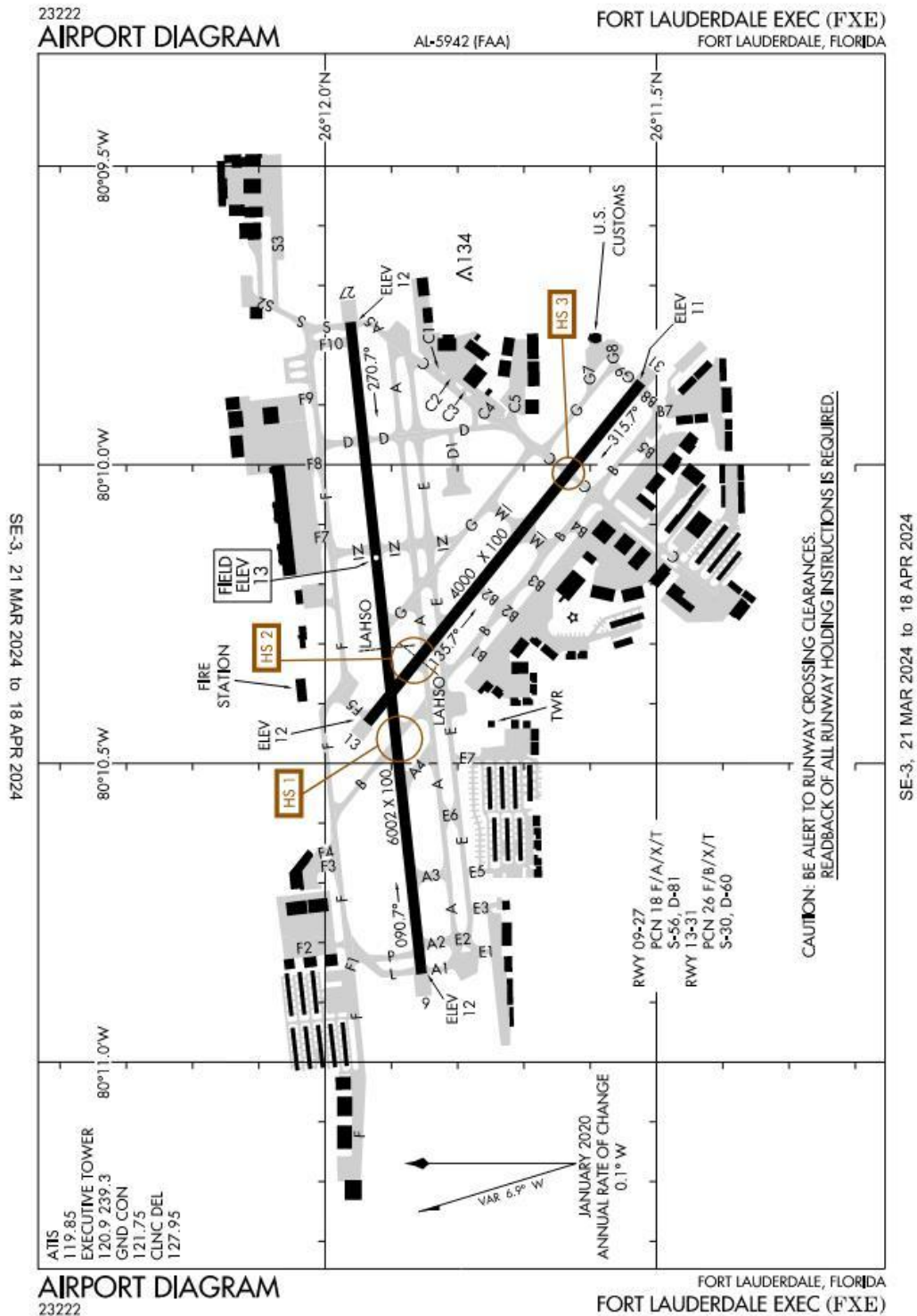


Figure 1: FAA Airport Diagram for FXE

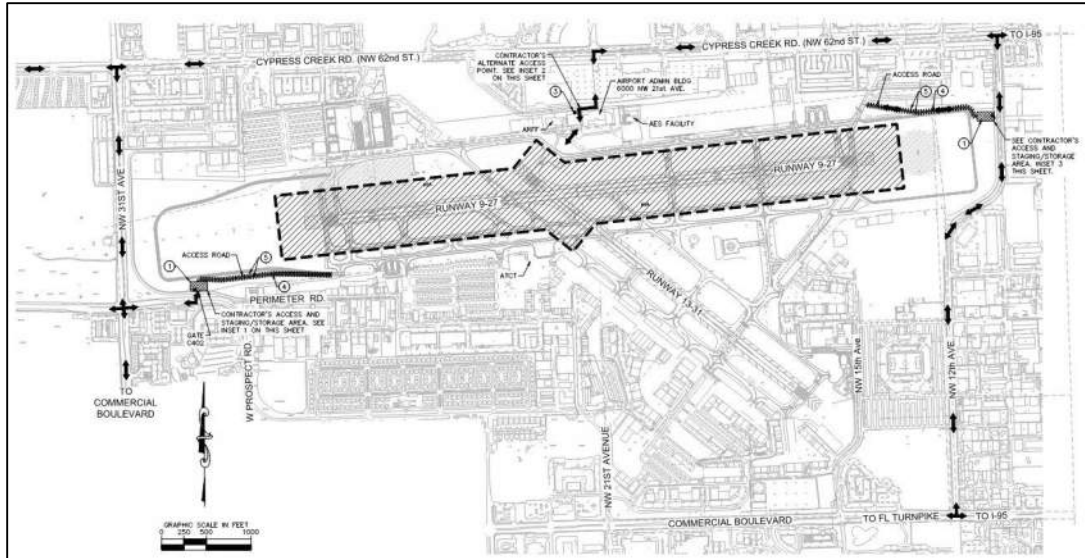


Figure 2: Limits of Work (HATCHED)

CONSTRUCTION PHASING AND SAFETY PLAN REQUIREMENTS

1. Coordination

- a. Pre-Construction Meeting – Prior to the Commencement of Construction the Contractor will attend a pre-construction meeting at Fort Lauderdale Executive Airport (FXE) Administration Building. This facility is located at 6000 NW 21st Ave, Fort Lauderdale, Florida. It is anticipated that the following attendees will be present at this meeting: FXE's Assistant Director, FXE's Airport Engineer, FXE's Airport Operations staff, a representative from the Air Traffic Control Tower (ATCT) staff, FXE's consultants, and the resident project representative. This meeting will be held during the Mobilization Phase at a date prior to commencement of construction activities. The intent of the meeting is for all parties to be well coordinated during the Administrative and Construction Phases of the project.

The agenda for this meeting will likely address the following:

- Project scope
- Responsibilities of all parties
- Contacts and personnel (including the identification of the Contractor's Security and Safety Officer (CSSO))
- Correspondence requirements
- Safety during construction and compliance with the FAA AC 150/5370-2G "Operational Safety on Airports during Construction" (latest edition), the CSPP, SPCD, and other City requirements; including the responsibility for marking and lighting of closed and hazardous areas
- Submittal requirements
- The Contractor's schedule including the scheduling of work and the need to perform certain items at various times during the project
- Invoicing procedures
- Procedures for submitting requests for information (RFI)

- Procedures for Change Orders.
 - Work required prior to the Commencement of Construction
 - Construction NTP date
 - Contractor access and haul routes
 - Security and badging requirements
 - Any other items the parties deem necessary
- b. Contractor Progress Meetings – Weekly construction progress meetings will be held with the Contractor, airport personnel, ATCT personnel, consultant, and other affected parties to coordinate work activities. All meetings will be held in person at the Airport's Administration Building. The meeting's agenda items will likely include, but not be limited to, current project status, upcoming project three-week look a-head schedule, construction issues, RFIs Contractor coordination and NOTAM's, change orders, and clean-up/foreign object debris (FOD) control. The Consultant will provide meeting minutes, which will be provided to all attendees within one week.
- c. Scope or Schedule Changes – Any changes to the work scope or the construction schedule will be reviewed by the proper airport personnel and consultant to determine if such modifications are warranted and to judge their potential impact on the project. Once reviewed, the Construction Safety and Phasing Plan (CSPP) will be revised to include such changes if necessary.
- d. FAA ATO Coordination – The scope of work of this project will require coordination with the Federal Aviation Administration (FAA) Air Traffic Organization (ATO). The FAA ATO must be coordinated with to schedule airfield shutdowns and restarts, changes to navigational aids (NAVAIDS), and grading changes in NAVAID critical areas. During the design phase, the City's consultant has started coordinating with FXE's Air Traffic Control Tower (ATCT) staff alerting them to the general scope of work, schedule, and timing of the project. The ATCT manager has started assembling a Runway Safety Action Team (RSAT) and is starting the early phases of preparing to perform Safety Risk Management (SRM) for this project. Upon the successful completion of the bid process, the selected Contractor will be required to participate in all SRM programs and continue to coordinate with the FAA ATO through the life of the project.

2. Phasing

- a. Phase Elements – Access routes to the construction site and Phasing for the construction is included in Appendix C. A summary of phasing is provided as follows:
- **BASE BID:**
 - **Mobilization** – During the mobilization phase, the Contractor may establish the staging area, temporary site access controls, obtain security badges, and establish temporary utilities. The Safety Plan Compliance Document (SPCD), shop drawings, mix designs, quality control program, safety plan, and long lead items shall be submitted in this phase as applicable.

- **Phase 1** – This phase will consist of installing barricades and lighted X's in areas that will require the closure of Runway 9-27 and connecting Taxiways C, D, G, N, F10, and S. Mill bituminous asphalt, Pave (P-401) asphalt control strip and Pave (P-401 and P-403) asphalt for the Runway 9-27 and taxiway transition areas. Temporary paint markings will be applied upon the completion of the paving operations. On the Blast Pad for the Runway 27 side, milling and overlaying will be performed up to the first 42FT. On the shoulder of the runway there will be a profile mill 2" below the proposed pavement grade and overlaying pavements. During this work demolition and installation of electrical work will be performed.
- **Phase 2** – This phase will consist of installing barricades and lighted X's in areas that will require the closure of Runway 9-27, Runway 13-31 and connecting Taxiways F5, B, and A. Mill bituminous asphalt, pave (P-401 and P-403) asphalt for Runway 9-27, Runway 13-31 and taxiways transition areas. Temporary paint markings will be applied upon the completion of the paving operations. On the Blast Pad for the Runway 13 side, milling and overlaying will be performed for the first 42FT. On the shoulder of the runway there will be a profile mill 2" below the proposed pavement grade and overlaying pavements. During this work demolition and installation of electrical work will be performed.
- **Phase 3** - This phase will consist of installing barricades and lighted X's in the areas that will require the closure of Runway 9-27 and connecting Taxiways A1, A2, A3, A4 L and P. Mill bituminous asphalt, Pave (P-401 and P-403) asphalt for Runway 9-27 and taxiway transition areas. Temporary paint markings will be applied upon the completion of the paving operations. On the Blast Pad for the Runway 9 side, milling and overlaying will be performed for the first 42FT. On the shoulder of the runway there will be a profile mill 2" below the proposed pavement grade and overlaying pavements. During this work demolition and installation of electrical work will be performed.
- **Phase 4** - This phase will consist of installing barricades and lighted X's in the areas that will require the closure of Runway 9-27 and connecting Taxiways C, D, G, N, F10, and S. After 30 days of allowing the asphalt to cure, grooving will be performed at Runway 9-27. On the Blast Pad for the Runway 27, the contractor will apply Emulsified Asphalt Seal Coat. Permanent final marking to be apply.
- **Phase 5** - This phase will consist of installing barricades and lighted X's in the area that will require the closure of Runway 9-27, Runway 13-31 and connecting Taxiways F5, B, and A. Grooving will be performed at Runway 9-27. On the Blast Pad for the Runway 13, the contractor will apply Emulsified Asphalt Seal Coat. Permanent final marking to be apply.
- **Phase 6** - This phase will consist of installing barricades and lighted X's in the area that will require the closure of Runway 9-27 and connecting Taxiways A1, A2, A3, A4 L and P. Grooving will be performed at Runway

9-27. On the Blast Pad for the Runway 9, the contractor will apply Emulsified Asphalt Seal Coat. Permanent final marking to be apply.

- **ADD ALTERNATE**

- **Phase 3A, Work Area A** – This phase will consist of installing barricades and lighted X's in the area that will require the closure of Runway 9-27 and Connecting Taxiway A1. Primary items of work will include but not be limited to: performing electrical demolition work, performing clearing and grubbing and excavation, performing full depth pavement removal and milling, constructing subbase and lime rock base courses, construct shoulders, and applying prime coat.
 - **Phase 3A, Work Area B** – This phase will consist of installing barricades and lighted X's in the area that will require the closure of Runway 9-27 and Connecting Taxiway A1. Primary items of work will include but not be limited to: paving (P-401 and P-403) asphalt for Taxiway A1, applying of temporary paint marking, and performing electrical installation work.
 - **Phase 3A, Work Area C** – This phase will consist of installing barricades and lighted X's in the area that will require the closure of Runway 9-27 and Connecting Taxiway A1. After a period of 30 days of allowing the pavement to cure, primary items of work will include but not be limited to: applying of final paint marking.
- b. Construction Safety Drawings – Construction safety drawings, notes, and details with airspace protective surfaces are shown in Appendix A. The scope of this project will require the closure of one or both of the airport's runways. As such, airfield lighted Xs are required to shut down the runway infrastructure. Low level airfield barricades will also be required for the delineation of work areas. The Contractor is required to maintain these items throughout the entirety of the project. Appendix A provides information regarding protected imaginary airfield surfaces.

3. Areas and Operations Affected by Construction Activity

a. Identification of Affected Areas:

- **Closing, or partial closing, of runways, taxiways and aprons:** The Scope of Work for this project will require the full closure, 24 hours per day, of Runway 9-27 during Phases 1 – 3 and Phase 3A. Runway 13-31 will require full closure, 24 hours per day, during Phase 2. During Phase 3A, Taxiway A1 will be closed. Phases 4 – 6, and Phase 3A Work Areas B and C will require nightly closures to both runways. See Appendix C for aircraft movement and closing or partial closing of runways, taxiways, and/ or aprons. Contractor to continuously coordinate with airport staff to ensure NOTAMS are issued for all closures.

- **Closing access routes used by airport airline support vehicles:** FXE is a general aviation airport. Accordingly, airport airline support vehicles are not anticipated during construction. However, Contractor will maintain access to routes used by airport and stakeholder vehicles.
- **Interruption of utilities:** The interruption of utilities is not anticipated to complete the project's Scope of Work. However, if required the Contractor is to coordinate shut-off procedures for utilities services as necessary. Contractor to protect all existing utilities within active project limits.
- **Approach/ departure surfaces affected by heights and objects:** While the majority of construction will require runway closures there will be some instances where one or both of the runways are active. During this time, the Contractor is to maintain all active runway approach/ departure surfaces unobstructed at all times. Contractor to comply with all requirements of 14 CFR Part 77, *Safe, Efficient Use, and Preservation of the Navigable Airspace* and notify the FAA accordingly. See Appendix C for protected Part 77 surfaces.

b. Mitigation of Effects:

- **Temporary changes to runway and/or taxi operations:** See Appendix C for Aircraft Movement during temporary changes to runway, taxiway, and/ or apron operations.
- **Detours for airport vehicles:**
The Contractor is required to provide two runway crossings throughout the project to provide access to airport vehicles at all times.
- **Maintenance of essential utilities:** It shall be the responsibility of the Contractor to contact Operations for all utilities that are located within the project limits. The Contractor shall locate all utilities within the project limits and protect them from damage, whether shown on the Contract Drawings or not. Prior to performing any site work, the Contractor will supply to the Owner's Representative a comprehensive checklist of utility facility owner's contacts including telephone number, contact name, date contacted, and date utility was flagged at site. No construction activities at the project site for any work areas will proceed without the Owner's Representatives written approval of the comprehensive utility locate checklist. Additionally, prior to any work proceeding at the project site(s), the Contractor will flag or paint the location of all utilities (water, sewer, FAA cables, power, telephone fuel, gas, and all others) in the field that are located within the proximity of the work limits of this project in order to locate any possible conflicts. The Contractor will provide written approval that flagged locations of utilities have been completed to the Owner's Representative prior to proceeding with construction activities.

It is possible that direct buried FAA and other airport/utility cables may pass through the work area. Some of these cables serve FAA facilities (such as NAVAIDs) and other airport facilities which are critical for the safe operation of the airport. It is of the utmost importance that damage to these cables be prevented. Cable locations shown on the plans are based upon the best information available but are not precise. Scaling dimensional data from the Contract Drawings is specifically prohibited. Dimensional data necessary for the construction of the project has been provided on the Contract Drawings.

The Contractor will keep the Owner's Representative informed of their excavation plans at least fourteen (14) working days in advance. The Contractor will notify the FAA and request that existing cables be staked in the field. The Contractor is responsible to coordinate with all other utility owners. The Contractor will maintain all cable locations marked in the field. Even after the cables are staked, the Contractor will use electronic detection devices and carefully hand excavate to locate cables. After cables are located, Contractor will specify exact location (stationing, offset, elevation and type of cable) and shall accurately measure and record their location data on the As-Built drawings. 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 split duct or otherwise excavating in their vicinity, Contractor will hand dig and use extreme caution to avoid damaging cables. All damage, even if superficial, will be reported to the Owner's Representative. In many cases superficial cable nicks may be inexpensively repaired, but if not repaired will lead to failure of the cable. The Owners' Representative will make the determination if the repair or replacement of the damaged utility is necessary. Replacement shall be at the Owner's sole discretion. All repair methods must be acceptable to the FAA and document as such by the Owner's Representative. All repairs will be made at the Contractor's expense. See the electrical related requirements of this contract for additional utility protection requirements.

- **Temporary changes to air traffic control procedures:** The Scope of Work for this project will require the full closure, 24 hours per day, of Runway 9-27 during Phases 1 – 3 and Phase 3A. Runway 13-31 will require full closure, 24 hours per day, during Phase 2. Phases 4 – 6, and Phase 3A Work Areas B and C will require nightly closures to both runways. See Appendix C for aircraft movement and closing or partial closing of runways, taxiways, and/ or aprons. Contractor to continuously coordinate with airport staff to ensure NOTAMS are issued for all closures. Additionally, the Contractor needs to coordinate their work schedule closely with the ATCT staff.

4. Protection of Navigation Aids (NAVAIDs)

There are no anticipated impacts to NAVAIDs for this project. Contractor to protect in place any FAA infrastructure or NAVAIDs if necessary. Any potential conflicts or impacts to NAVAIDs are to be brought to the attention of the airport and engineer/design team.

5. Contractor Access

- a. Location of Stockpiled Construction Materials – The Contractor will not be permitted to stockpile materials or construction equipment within the Air Operations Area (AOA). Millings, demolished concrete, and other demolished project elements will be removed from the site and taken to the Contractor's staging area for disposal off-site (See Appendix B). Airport staff and the design Team will submit FAA form 7460-1 *Notice of Proposed Construction or Alteration* for anticipated equipment and stockpiled material which penetrates Part 77 notification criteria. These objects may also require lighting and marking, by the Contractor, during periods of low visibility and/or darkness. Contractor must also

verify that materials are stabilized and stored at location so as not to be a hazard to aircraft operations and to prevent attraction of wildlife and foreign object damage. The Contractor is to provide appropriate erosion and sedimentation measures to protect stockpiles in accordance with the Contract Documents.

- b. Vehicle and Pedestrian Operations – Vehicle and pedestrian access routes for airport construction projects must be controlled to prevent inadvertent or unauthorized entry of persons, vehicles, or animals onto the AOA.

- (1) **Construction site parking.** Vehicle parking for Contractor personnel will be provided by the Contractor in their staging area or offsite at their own employee parking. It is the Contractor's responsibility to shuttle employees to and from the parking area and job site.
- (2) **Construction equipment parking.** While in the AOA, the Contractor must park and service all construction equipment/vehicles in an area designated by the Owner's Representative and Airfield Operations, outside all object free areas, and never in the safety area of an active runway/taxiway or an object free area of an active runway/taxiway. Contractor should park all construction vehicles outside the object free area of an active runway or an active taxiway when not in use by construction personnel. Equipment/vehicles parking areas must not obstruct clear line of sight by the ATCT to any runways, taxiways, taxilanes, or aprons under air traffic control nor obstruct any runway visual aids, signs, or navigation aids. The FAA must also study those areas to determine effects on airport design criteria surfaces established by 145 CFR Part 77, Safe, Efficient Use, and Preservation of Navigable Airspace (Part 77), and on NAVAIDs and Instrument Approach Procedures (IAP),
- (3) **Access and haul roads.** Project access is limited to approved entrances as shown on Appendix C. All hauling operations are to be performed via approved roads. Hauling routes to the site shall be clearly marked by the Contractor. Contractor to always give right of way to airport vehicles. Construction traffic on haul roads will not interfere with NAVAIDs or approach surfaces of operational runways
- (4) **Marking and lighting vehicles.** Construction vehicles will be marked and lighted in accordance with AC 150/5210-5, *Painting, Marking, and Lighting of Vehicles Used on an Airport* (latest edition).
- (5) **Description of proper vehicle operations.** Contractor's employees shall take Airport required training classes to properly prepare themselves to drive in authorized areas of the airport under normal, lost communications, and emergency conditions.
- (6) **Required escorts.** No vehicles or equipment will be allowed on the active airfield without escort from employees with whom have previously attended and passed escort training provided by airport staff.
- (7) **Training requirements for vehicle drivers.** Prior to operating vehicles on the airfield, Contractor's personnel will be required to take movement area training classes.
- (8) **Situational awareness.** Vehicle drivers must confirm by personal observation that no aircraft is approaching their position (either in the air or on the ground) when given clearance to cross a runway, taxiway, or any other area open to

airport operations. In addition, it is the responsibility of the escort vehicle driver to verify the movement/position of all escorted vehicles at any given time.

(9) Two-way radio communication procedures.

- a. General. All communication with the ATCT or other elements of the airport shall be the Contractor's responsibility. The Contractor's key staff must monitor radio communication at all times. The Contractor will be required to understand the airports procedures for two-way radio communication.

The Contractor must ensure that personnel, engaged in activities involving unescorted operation on aircraft movement areas, observe the proper procedures for communications, including using appropriate radio frequencies. When operating vehicles on or near open runways or taxiways, construction personnel must understand the critical importance of maintaining radio contact, as directed by the airport operator, with:

- (i) Airport operations
 - (ii) ATCT
 - (iii) Common Traffic Advisory Frequency (CTAF), which may include UNICOM, MULTICOM.
 - (iv) Automatic Terminal Information Service (ATIS). This frequency is useful for monitoring conditions on the airport. Local air traffic will broadcast information regarding construction related runway closures and "shortened" runways on the ATIS frequency.
- b. Areas requiring two-way radio communication with the ATCT. Vehicular traffic crossing active movement areas must be controlled either by two-way radio with the ATCT, escort, flagman, signal light, or other means appropriate for the particular airport.
- c. Frequency to be used. Frequency 121.75 will be used to communicate and monitor ground ATCT.
- d. Proper radio usage. Proper radio usage will include reading back all instructions from ATCT.
- e. Proper phraseology. Proper radio phraseology will include the use of the International Phonetic Alphabet.
- f. Light gun signals. Even though radio communication is maintained, escort vehicle drivers must also familiarize themselves with ATCT light gun signals in the event of radio failure. See the FAA safety placard "Ground Vehicle Guide to Airport Signs and Markings." This safety placard may be downloaded through the Runway Safety Program Web site at http://www.faa.gov/airports/runway_safety/publications/ (See "Signs & Markings Vehicle Dashboard Sticker".) or obtained from the FAA Airports Regional Office.

(10) Maintenance of secured area of the airport, including:

- a. Fencing and gates. The Contractor must take care to maintain security during construction when access points are created in the security fencing to permit the passage of construction vehicles or personnel. Temporary gates should be equipped so they can be securely closed and locked to prevent access by animals and unauthorized people. Procedures should

be in place to ensure that only authorized persons and vehicles have access to the AOA and to prohibit “piggybacking” behind another person or vehicle. Contractor will be responsible for maintaining the security fencing and gates during construction. A guard will be stationed at this gate to prevent any unauthorized access.

- b. Badging requirements. Prior to proceeding with construction activities all of the Contractor’s supervisory staff must obtain security badges from the airport. These badges are to be worn at all times while on the airside. Badged employees who are escorting non-badged employees must always maintain control of their staff. Any person not wearing a badge and unescorted will be asked to show his badge or leave the site.

6. Wildlife Management

- a. Trash – Contractor will be required to remove any waste/food material that may attract wildlife as well as avoid construction activities that will create wildlife hazards at the Airport during construction. The Contractor will emphasize to his employees the need for daily foreign object debris (FOD) checks on or near active airfield pavements. FOD checks will be conducted daily at the end of each construction shift.
- b. Standing Water – Contractor will be required to avoid any activities that may cause standing water at the construction site and attract wildlife. Maintain existing drainage during all construction activities.
- c. Tall Grass and Seeds – Sodding on the project will comply with standard FAA Sodding Technical Specification, Item T-902, Sodding. All efforts will be made by the Contractor to reduce the attraction of birds during the sodding operation. Contractor is also responsible for maintaining and controlling vegetation within the Limits of Work. Periodic mowing of existing grass may be required. Seeding will not be permitted on the project.
- d. Poorly Maintained Fencing and Gates – Contractor will be responsible for maintaining and replacing any damaged portion of the security fencing and gates during construction.
- e. Disruption of Existing Wildlife Habitat – Contractor shall make every effort to minimize disruption to the existing wildlife. If the Contractor should come into contact with wildlife habitat at the site, he shall immediately cease operations and inform the Airport. There is high likelihood of encountering gopher tortoises or burrowing owls at this airport. Both species are protected, if the presence of nests or burrows or other applicable wildlife signs are discovered within the limits of work for this project, coordination with necessary environmental agencies will be required.

7. Foreign Object Debris (FOD) Management

Waste and loose materials, commonly referred to as FOD, are capable of causing damage to aircraft landing gears, propellers, and jet engines. The Contractor must not leave or

place FOD on or near active aircraft movement areas. Materials capable of creating FOD must be continuously removed during the construction project.

Contractor will be required to conduct periodic FOD walks and maintain a vacuum sweeper on site to remove any FOD from the work and adjacent area. Prior to leaving the work area, the Contractor will be required to inspect the site to determine if the site is clear of FOD. If the area is not clear, the Contractor must take corrective action.

8. Hazardous Materials (HAZMAT) Management

Contractors operating construction vehicles and equipment on the airport must be prepared to expeditiously contain and clean-up spills resulting from fuel or hydraulic fluid leaks. The Contractor will be required to provide a spill prevention and clean-up plan in case of a fuel or hydraulic fluid leak on the Airport prior to being allowed on the work site. Transport and handling of other hazardous materials on an airport also requires special procedures. See AC 150/5320-15A, *Management of Airport Industrial Waste*.

9. Notification of Construction Activities

The Contractor's Safety Plan Compliance Document (SPCD) must detail procedures for the immediate notification of airport users and the FAA of any conditions adversely affecting the operational safety of the airport. It must address the notification actions described below, as applicable:

- a. Maintenance List of Responsible Representatives/Points of Contact – Contractor will be required to submit a contact list of all involved parties to include cell/phone numbers for contact after hours.
- b. Notices to Airmen (NOTAM) – Airport staff will issue, maintain and cancel NOTAM's issued as part of the construction activities and coordinate said NOTAM's with tenants. Airport operator will also be responsible for providing information to the FAA Flight Service Station (FSS). The airport will be the only entity that can close or open a runway.
- c. Emergency Notification Procedures – Emergency contact information for medical, firefighting, and police must be determined by the Contractor. Contractor to submit this information with the Contractor's Safety Plan Compliance Document (SPCD).
- d. Coordination with Aircraft Rescue and Fire Fighting (ARFF) Personnel – Coordination with ARFF personnel, mutual aid providers, and other emergency services must be maintained for the duration of this project. If construction activities require the deactivation of water lines/hydrants, blocking of emergency access routes, or use of hazardous materials, Contractor must contact ARFF personnel (et al) prior to engaging in this work. Contractor to coordinate with the Fort Lauderdale Fire Rescue ARFF team (City of Fort Lauderdale Fire-Rescue Station No. 53.)

e. Notification to the FAA:

- **Part 77.** Any person proposing construction or alteration of objects that affect navigable airspace, as defined in Part 77, must provide notice to the FAA. This includes but is not limited to construction equipment, stockpiled material, proposed parking areas for this equipment (i.e. cranes, graders, other equipment) on airports, etc. FAA Form 7460-1, *Notice of Proposed Construction or Alteration*, is to be used for this purpose and submitted to the FAA Orlando District Office by airport staff and the engineering/design team prior to the award of the construction contract. All alterations during the construction of the project shall be resubmitted by the Contractor for the airport staff and engineering/design team approval.

- **Navigational Aids (NAVAID).**

Impacts to NAVAIDs are not anticipated for this project. In the event that an unforeseen impact occurs, refer to the information below. For emergency (short-notice) notification about impacts to both airport owned and FAA owned NAVAIDs, contact: 866-432-2622.

(1) Airport Owned/FAA Maintained. If construction operations require a shutdown of 24 hours or greater in duration, or more than 4 hours daily on consecutive days, of a NAVAID owned by the airport but maintained by the FAA, provide a 45-day minimum notice to FAA ATO/Technical Operations prior to facility shutdown, using Strategic Event Coordination (SEC) Form 6000.26 contained within FAA Order 6000.15, *General Maintenance Handbook for National Airspace System (NAS) Facilities*.

(2) FAA Owned.

1. The airport operator must notify the appropriate FAA ATO Service Area Planning and Requirements (P&R) Group a minimum of 45 days prior to implementing an event that causes impacts to NAVAIDs, using SEC Form 6000.26.

2. Coordinate work for an FAA owned NAVAID shutdown with the local FAA ATO/Technical Operations office, including any necessary reimbursable agreements and flight checks. Detail procedures that address unanticipated utility outages and cable cuts that could impact FAA NAVAIDs. Refer to active Service Level Agreement with ATO for specifics.

10. Inspection Requirements

- a. Daily (or more frequent) inspections – Inspections should be conducted at least daily, but more frequently, if necessary, to ensure conformance with the CSPP. See Appendix D - Construction Project Daily Inspection Checklist sample.
- b. Interim inspections – Inspections should be conducted of all areas to be opened to aircraft traffic to ensure the proper condition of the area and absence of FOD. The Contractor should conduct an inspection of the work area with airport staff and the engineer/design team. The Contractor should ensure that all construction materials have been secured, all pavement surfaces have been swept clean, all

transition ramps have been properly constructed, and that surfaces have been appropriately marked for aircraft to operate safely. Only if all items on the list meet with the airport operator's approval should the area be reopened to aircraft operations. The Contractor shall be required to retain a suitable workforce and the necessary equipment at the work area for any last-minute cleanup that may be requested by the airport operator prior to opening the area.

- c. Final inspections – A final inspection will be held with the Contractor, airport staff, the engineer/design team, RPR prior to formal acceptance of the project.

11. Underground Utilities

The Contractor will be required to coordinate with local utility locating services, FAA ATO, FAA Technical Operations, and the airport to locate and protect any underground services (including but not limited to utilities, cables, wires, pipelines, etc.) prior to beginning any excavations onsite. Once locations have been established, the Contractor shall make all necessary arrangements to ensure that the facilities remain in a safe and operable condition during construction. Note that "One Call" services will not locate utilities on airfields.

Should an existing utility be taken out of service due to construction activities, Contractor will be responsible for its immediate repair at their expense.

12. Penalties

Penalties will be in accordance with the Contract Documents. Contractor personnel entering a movement area without authorization shall be levied a fine and a Notice to Appear in Court as well as removal from the job site. Personnel found to be on the jobsite without an airport issued identification badge will be immediately removed from job site. If a security access gate is found to be left unstaffed and unlocked or should a guard under the employment of the Contractor allow access to the work site without verifying the proper identification, the Contractor shall be fined for each occurrence.

The Contractor shall be responsible for payment of any fines assessed to the Fort Lauderdale Executive Airport (FXE) or City of Fort Lauderdale due to the Contractor's violation of FAA or TSA operating safety/ security requirements while working on the airport.

13. Special Conditions

Any security breach and/or Vehicle/Pedestrian Deviation (VPD) by the Contractor or their personnel will cause the airport to suspend work until such matters are resolved to the airport's satisfaction and corrective measures have been taken by the Contractor. All construction activity will be suspended in the event of an incident involving an aircraft in distress or airfield accident.

14. Runway and Taxiway Visual Aids, Marking, Lighting, Signs, and Visual NAVAIDS

- a. General – Contractor will ensure that construction operations will not obscure or damage existing markings, lighting, signage, and visual NAVAIDS. These objects

must be kept clearly visible to pilots, not misleading, confusing, or deceptive. In addition, all new lighting and signage will be secured in place to prevent movement by prop wash, jet blast, wing vortices, and other wind currents. Items used to secure these objects must be constructed of materials that will minimize damage to an aircraft in the event of inadvertent contact and colored like the object which they are protecting.

- b. Markings – All airfield markings will follow A/C 150-5340-1M. Runways that will be temporarily closed to airport operations during construction will be marked with yellow lighted “X” placed on the runway designation numbers (see Appendix C). Taxiway closure will be designated by low-level, lighted barricades placed at the entrance to the closed taxiway from the runway (see Appendix C). These barricades will be maintained by the contractor.
- c. Lighting and Visual NAVAIDs – All lighting will conform to AC 150/5340-30 and AC 150/5345-50. Light fixtures will be removed from the closed taxiway and lighting circuits will be disconnected.
- d. Signs – The Contractor shall be required to provide, maintain, and install temporary signage systems for all existing systems that are removed or deactivated during construction that are required to be in operation at the end of each workday.

15. Marking and Signs for Access Routes

Airfield pavement markings will conform to AC 150/5340-18F as indicated on the plans and specifications. Signs that will be installed adjacent to active taxiways/runways shall have frangible couplings meeting the criteria of AC 150/5220-23A. All Contractor signage shall meet the requirements of the Manual of Uniform Traffic Control Devices (MUTCD), latest edition.

16. Hazard Marking and Lighting

- a. Purpose – To prevent pilots from entering construction areas that are closed to aircraft as well as prevent construction personnel from entering areas that are open to aircraft operations by use of warning indicators for both pilots and Contractor personnel.
- b. Equipment
 - Runway lighted Xs will be used to Close the work area to aircraft and serve as a visual indicator to pilots that the Runway is closed.
 - Low-level airfield barricades equipped with flashing red-lights and flags will be used to close the work area to aircraft. The barricades shall be spaced no greater than 20' center-to-center. Sandbags will be used to hold the barricades in place against prop wash/jet blast.
 - Type II barricades equipped with flashing yellow lights will be used to delineate the haul road and access route to the work site. Sandbags will be used to hold the barricades in place against prop wash/jet blast.

The Contractor will be responsible for maintaining lights, barricades, and fence in working order throughout the project and shall have replacement flags, lights, batteries, and fencing on-site as well as a designated employee that will be on call 24-hours per day to maintain the barricades and/ or fence.

17. Work zone lighting for nighttime construction

The Contractor will be required to provide sufficient artificial lighting, in accordance with the Technical Specifications, during nighttime operations (or other similar times of poor visibility) to perform their work and for the work to be reviewed by the proper airport personnel and consultant. During nighttime paving operations, the Contractor must comply with the requirements of FAA Standard Technical Specification P-401-4.16. Contractor to maintain artificial lighting system in good working order and ensure that at no time does the system interfere with airport operations. Light heads are to be aimed down and away from air traffic and air traffic control. Contractor to provide shielding as necessary. When not in operation, light pole booms are to be lowered and the lighting powerhouse is to be moved to a location where it will not obstruct air operations.

18. Protection of Runway and Taxiway Safety Areas, Object Free Areas, Obstacle Free Zones, and Approach/Departure Surfaces

The Contractor is required to discuss proposed methods of identifying, demarcating, and protecting airport surfaces including:

- a. Runway Safety Area (RSA) – The project will require work within the RSA of Runways 9-27 and 13-31. As such, the Runways will be closed during these operations and proper notices issued via NOTAM's.
- b. Runway Object Free Area (ROFA) – All construction equipment will be removed from the ROFA at the end of the workday. In addition, no materials will be allowed to be stockpiled within the ROFA.
- c. Taxiway Safety Area (TSA) – The project will require work within Taxiway Safety Areas (TSA). As such, the Taxiways will be closed during these operations and proper notices issued via NOTAM's.
- d. Taxiway Object Free Area (TOFA) – All construction equipment will be removed from the TOFA at the end of the workday. In addition, no materials will be allowed to be stockpiled within the TOFA.
- e. Obstacle Free Zone (OFZ) – The project will require work within the OFZ of Runways 9-27 and 13-31. As such, the Runways will be closed during these operations and proper notices issued via NOTAM's.
- f. Runway approach/ departure surfaces – The project will require access to and from the work site that will be within the approach/departure surfaces of Runways 9-27 and 13-31. Airport operations will coordinate movement within these areas with ATCT personnel and issue the proper NOTAM's.

19. Other Limitations on Construction

- a. Prohibitions – The following prohibitions will be in place during construction: No use of tall equipment such as cranes will be allowed unless a 7460-1 has been filed with the FAA; no open flame welding or torches will be allowed; no blasting on Airport property; and no use of flare pots within AOA.
- b. Restrictions – Contractor will not be allowed access to any areas outside of the work site without escort by Airport staff. In addition, the Contractor will submit a Hurricane Preparedness Plan detailing how the Contractor will secure the work area equipment and materials to prevent damage to the work and prevent materials and equipment from becoming a hazard to persons and property on the airfield.



APPENDIX A

Airspace Protection Plan, Safety Notes and Details

GENERAL NOTES

- EXISTING RUNWAY 9-27 LIGHTED WITH HIRL AND RUNWAY 13-31 LIGHTED WITH MIRL. EXISTING TAXIWAYS LIGHTED WITH MITL.
- AIRFIELD MARKINGS AND NAVIGATIONAL AIDS CONFORM TO CURRENT FAA AIRPORT DESIGN STANDARDS.
- APPROACH SLOPES AND RUNWAY PROTECTION ZONES CONFORM TO FAA AIRPORT DESIGN STANDARDS AND 14 CFR PART 77 CRITERIA.
- THE BUILDING RESTRICTION LINE (BRL) DEPICTED ON THE ALP PROVIDES 35 FEET OF CLEARANCE UNDER APPLICABLE FAR PART 77 SURFACES. THE BRL ENCOMPASSES THE RUNWAY PROTECTION ZONES (RPZ), TAXIWAY OBJECT FREE AREAS (TOFA) AND NAVAID CRITICAL AREAS AS APPLICABLE.
- ALL OBSTRUCTIONS MUST BE AT LEAST 15 FEET LOWER THAN THE HEIGHT OF THE ASOS SENSOR (30 FEET) WITHIN THE 500 FOOT RADIUS AND BE NO GREATER THAN 10 FEET ABOVE THE SENSOR FROM 500 TO 1000 FEET.
- RUNWAY VISIBILITY ZONE MEETS FAA STANDARDS AND IS WITHIN BRL.
- NO OBJECTS PENETRATE THE OBJECT FREE ZONE (OFZ).
- ALL ELEVATIONS ARE LISTED IN HEIGHT ABOVE MEAN SEA LEVEL (MSL) NORTH AMERICAN VERTICAL DATUM 1988 (NAVD83).
- ALL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 1983 (NAD83).
- REFER TO SHEET 2 AND 3 FOR AIRPORT DATA TABLES.
- REFER TO SHEET 5 FOR ULTIMATE CONDITIONS.
- REFER TO SHEETS 16 THROUGH 23 FOR EXISTING AND ULTIMATE BUILDING INDEX.
- ALL AIRPORT FEATURES HAVE BEEN DIGITIZED USING AERIAL PHOTOGRAPHY COLLECTED IN JANUARY 2017 AS PART OF THE FTX MASTER PLAN UPDATE.

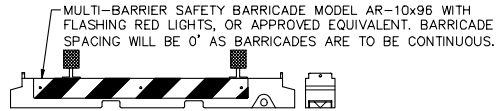
SHEET 4 OF 26

CONSTRUCTION SAFETY NOTES:

- ALL CONSTRUCTION FOR THIS PROJECT SHALL CONFORM TO THE GUIDELINES SET FORTH IN FEDERAL AVIATION ADMINISTRATION (FAA) AC150/5370-2G "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION", AND THESE PLANS AND SPECIFICATIONS.
- CONSTRUCTION ACTIVITIES ARE NOT PERMITTED WITHIN THE RUNWAY SAFETY AREA (RSA) OF ANY RUNWAY THAT IS OPEN FOR AIRCRAFT OPERATIONS. (SEE SECTION 2.22, AC 150/5370-2G, CHAPTER 2)
- CONSTRUCTION ACTIVITIES ARE NOT PERMITTED WITHIN TAXIWAY OBJECT FREE AREA (TOFA) OF AN ACTIVE TAXIWAY. (SEE SECTION 2.22, AC No. 150/5370-2G, CHAPTER 2)
- NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER. THIS SPECIFICALLY INCLUDES THE RUNWAY PROTECTION ZONES AND THE RUNWAY AND TAXIWAY CONSTRUCTION SAFETY LIMITS IDENTIFIED IN CONSTRUCTION NOTES 2 AND 3 ABOVE.
- NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY LOCALIZER OR GLIDE SLOPE CRITICAL AREA EXCEPT UPON AUTHORIZATION BY THE OWNER.
- IN ORDER FOR THE CONTRACTOR TO OPERATE WITHIN THE AIR OPERATIONS AREA, APPROPRIATE NOTICE TO AIR MISSIONS (NOTAMS) MUST BE ISSUED BY THE OWNER THROUGH THE FAA FLIGHT SERVICE STATION. THESE NOTICES PROVIDE INFORMATION ON CLOSED, LIMITED, OR HAZARDOUS CONDITIONS TO AIRMEN AND USERS OF THE AIRPORT. A 72-HOUR NOTICE IS REQUIRED FOR ISSUANCE OF THE NOTAM. ALL CONSTRUCTION OPERATIONS MUST BE CLOSELY COORDINATED WITH THE OWNER FOR NOTAM ISSUANCE.
- AIRCRAFT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN ITS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
- ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE WITHIN THE SECURITY FENCE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'x3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG, EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLES SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
- CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
- OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS ARE PROVIDED AND HAVE BEEN APPROVED BY THE OWNER.

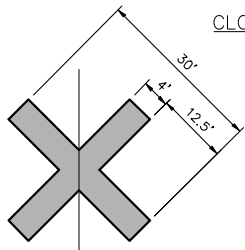
- OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
- STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT, WIND, AND/OR OTHER REASON.
- ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT ITS OWN EXPENSE.
- CONTRACTOR GENERATED DEBRIS, WASTE AND LOOSE MATERIAL IS CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES AND SHALL NOT BE LEFT ON ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPING WITHIN THESE AREAS SHALL BE REMOVED IMMEDIATELY AND CONTINUOUSLY DURING WORKING HOURS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER ITS CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
- CONTRACTOR ACCESS GATES SHALL BE CONTROLLED BY A CONTRACTOR SUPPLIED GATE GUARD OR REMAIN LOCKED AT ALL TIMES. APPROVED GATE GUARD SHALL CONTROL ACCESS TO ALLOW ONLY AUTHORIZED CONSTRUCTION TRAFFIC TO ENTER THE SITE.
- AIRPORT STAFF SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING THE SECURED AREA OF THE AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS. NO PRIVATE VEHICLES WILL BE ALLOWED ON THE AIRPORT.
- SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR WILL CONFINE PERSONNEL, EQUIPMENT AND MATERIALS OUTSIDE OF ACTIVE AREAS OF THE AIRPORT.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY LIGHTED BARRICADES EVERY 30 FEET ON BOTH SIDES OF HARD ROAD TO CLEARLY MARK THE DESIGNATED ACCESS ROUTES TO AFFECTED AREAS OF AIRPORT PROPERTY. CONTRACTOR SHALL CONTROL ACCESS TO THE WORKING AREA BY CONSTRUCTION VEHICLES AS DELINEATED ON THIS PLAN.
- THE CONTRACTOR SHALL HAVE ACCESS TO THE SECURED AREA OF THE AIRPORT ONLY AT THE LOCATION DESIGNATED ON THE PLANS OR APPROVED BY THE OWNER. ALL OTHER ACCESS SHALL BE BY SPECIAL REQUEST AND SUBJECT TO APPROVAL BY THE OWNER. THE CONTRACTOR SHALL PROVIDE FLAGMEN TO COORDINATE AND CONTROL CONSTRUCTION TRAFFIC WHEN OPERATING ACROSS ANY ACTIVE AREAS OF THE AIRPORT.

- THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FLASHING LIGHTS AND BARRICADES ALONG PAVEMENT EDGES WHEREVER OPEN EXCAVATIONS OR IRREGULAR GRADES ARE LEFT WITHIN THE SAFETY AREA OF AN ACTIVE PAVEMENT OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES SHALL BE PLACED IN A CONTINUOUS LINE OR AS NOTED ALONG THE AFFECTED PAVEMENT EDGE OR ACROSS THE PAVEMENT OF A CLOSED TAXIWAY. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES.
- THE CONTRACTOR SHALL PERFORM CONSTRUCTION OPERATIONS AS NECESSARY TO PREVENT ATTRACTION TO BIRDS CAUSED BY PONDED WATER AND GRASS SEED.
- REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
- THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN OR MANDATED BY FAA OR TSA. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
- THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES WHO REQUIRE ACCESS TO THE SECURE AREA OF THE AIRPORT SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
- ALL CONTRACTOR PERSONNEL WHO REQUIRE ACCESS TO THE SECURE AREA OF THE AIRPORT SHALL HAVE OWNER ISSUED IDENTIFICATION BADGES DISPLAYED AT ALL TIMES WHEN WORKING INSIDE THE AIRCRAFT OPERATIONS AREA. THE AIRPORT ID PROGRAM IS UNDER CONSTANT REVIEW BY THE FAA AND AIRPORT STAFF. ALL CONTEMPORARY REQUIREMENTS WILL GOVERN. THE CONTRACTOR SHALL ASSIGN THE CONTRACTOR SECURITY OFFICER DESCRIBED ABOVE AS THE SINGLE POINT CONTACT FOR ALL IDENTIFICATION BADGING REQUIREMENTS. PERSONNEL, SUCH AS TRUCKERS, WHO ARE NOT BAGGED, MAY BE PERMITTED TO ACCESS THE SECURE AREA UNDER THE DIRECT ESCORT OF AIRPORT STAFF OR BAGGED CONTRACTOR PERSONNEL WITH ESCORT AUTHORITY.
- THE CONTRACTOR SHALL ACQUAINT ITS SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT ITS CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
- ITEMS FOR CONTROL OF SAFETY DURING CONSTRUCTION SUCH AS VEHICLE LIGHTING, ETC. SHALL BE PAID FOR IN ACCORDANCE WITH SPECIFICATION S-102 AND SHALL BE CONSIDERED AS A SUBSIDIARY OBLIGATION FOR THE CONTRACTOR COVERED UNDER THESE ITEMS.
- SEE PHASING PLANS FOR BARRICADE LOCATIONS.



LOW LEVEL AIRFIELD BARRICADE DETAIL & NOTES
N.T.S.

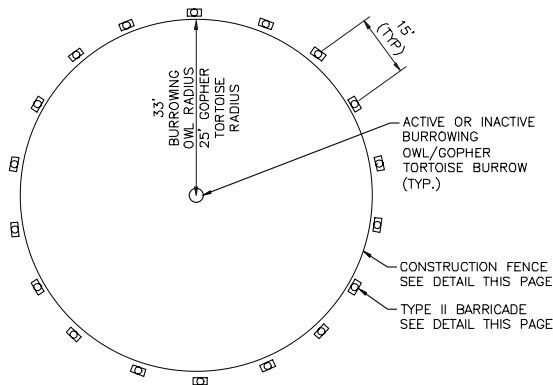
- BARRICADES SHALL BE PLACED AS SHOWN ON THE PHASING PLANS TO DELINEATE THE CONTRACTOR'S WORK AREAS. EXACT BARRICADE LOCATION AND QUANTITY TO BE COORDINATED WITH AIRPORT.
- BARRICADE SECTIONS CAN BE WHITE OR ORANGE WITH WHITE AND ORANGE RETRO-REFLECTIVE MARKING OR STICKERS. BARRICADES WILL BE LIGHTED AND FLAGGED.
- ALL BARRICADES SHALL BE CHECKED VISUALLY FOR SIGNS OF WEAR AND TEAR ON A WEEKLY BASIS AND SHALL BE REPAIRED OR REPLACED WHEN DEEMED APPROPRIATE BY THE RPR OR OWNER. THE CONDITIONS OF LIGHTING UNITS SHALL BE CHECKED DAILY. ALL LIGHT FIXTURES SHALL BE VERIFIED OPERATING BY THE CONTRACTOR ON A DAILY BASIS BEFORE THE CONTRACTOR CEASES OPERATION FOR THE DAY. THE AREAS AROUND ALL BARRICADES SHALL BE CLEANED AS DIRECTED IN THE GENERAL NOTES AND THE SAFETY NOTES.
- BARRICADES ALONG ACTIVE APRON OR TAXIWAY PAVEMENT SHALL BE PLACED APPROXIMATELY 4 FEET FROM THE EDGE OF THE FULL STRENGTH PAVEMENT. BARRICADES SHALL BE PLACED IN A CONTINUOUS LINE.
- ALTERNATE FORMS OF BARRICADES MAY BE PROPOSED BY THE CONTRACTOR WHICH MEET THESE FUNCTIONAL REQUIREMENTS. APPROVALS OF ANY SUCH SUBSTITUTION (IF GRANTED) SHALL BE BY THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- THE FINAL LOCATION FOR THE BARRICADES SHALL BE ESTABLISHED IN THE FIELD AS DIRECTED BY THE OWNER.
- THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, RELOCATE AND REMOVE ALL BARRICADES. ALL WORK SHALL BE INCIDENTAL TO S-102 IN THE A.O.A.
- THE CONTRACTOR SHALL MAINTAIN THE LIGHTS AND THE BARRICADES IN OPERABLE CONDITION AT ALL TIMES. THE CONTRACTOR SHALL HAVE REPLACEMENT LIGHTS AND BATTERIES ON SITE AND SHALL REPLACE LIGHTS AND/OR BATTERIES WITHIN ONE HOUR OF NOTIFICATION BY THE RPR OR OWNER. CONTRACTOR SHALL FURNISH THE OWNER WITH THE NAME AND TELEPHONE NUMBER FOR AN ON-CALL REPRESENTATIVE 24 HOURS PER DAY, SEVEN DAYS PER WEEK TO REPLACE BATTERIES AND INOPERATIVE LIGHTS AND MAINTAIN THE BARRICADES.
- FLASHING LIGHTS SHALL BE PLACED AT THE ENDS AND AT CORNERS OF EACH LINE OF BARRICADES, ALL OTHER LIGHTS ON BARRICADES SHALL BE STEADY-BURN.



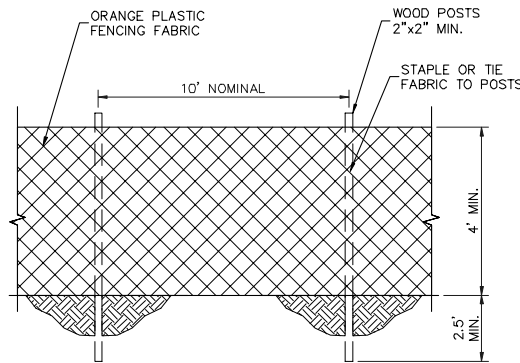
CLOSED TAXIWAY MARKER NOTES:

- TEMPORARY CLOSED TAXIWAY MARKER SHALL BE CONSTRUCTED OF AN EASILY REMOVABLE MATERIAL, SUCH AS PLYWOOD OR FABRIC, AND HELD IN PLACE WITH SAND BAGS PAINTED YELLOW. TEMPORARY CLOSED TAXIWAY MARKER SHALL BE YELLOW IN COLOR.
- THE CONTRACTOR SHALL PLACE TEMPORARY CLOSED TAXIWAY MARKER ON THE CENTERLINE OF THE FACILITY TO BE CLOSED AS SHOWN ON PLANS OR AS DIRECTED BY THE OWNER.
- NO PAYMENT WILL BE MADE FOR RELOCATIONS OF TEMPORARY CLOSED TAXIWAY MARKER.
- PAYMENT FOR ITEM IS INCLUDED IN S-102. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM.

TEMPORARY TAXIWAY CLOSURE MARKER



BURROWING OWL AND GOPHER TORTOISE FENCING PROTECTION DETAIL
N.T.S.

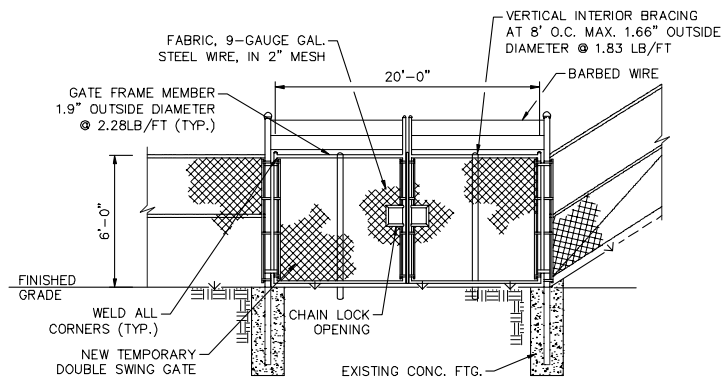


CONSTRUCTION FENCE DETAIL
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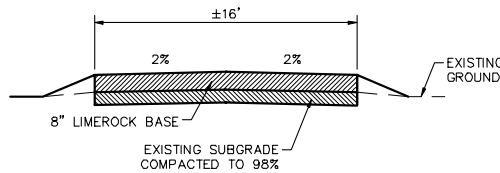
- THE CONTRACTOR SHALL PROVIDE FULLY FUNCTIONING PORTABLE LIGHTED RUNWAY CLOSURE MARKERS FOR THE PROJECT.
- THE FUEL AND MAINTENANCE COSTS ASSOCIATED WITH USING THE PORTABLE LIGHTED RUNWAY CLOSURE MARKERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGHOUT THE CONSTRUCTION. THIS INCLUDES REPLACING THE ENGINE AND/OR GENERATOR. ANY REPAIRS REQUIRED TO THE PORTABLE LIGHTED RUNWAY CLOSURE MARKERS SHALL BE AT THE CONTRACTOR'S EXPENSE, WITH NO ADDITIONAL COMPENSATION.
- THE CONTRACTOR SHALL CLEAN, REPAIR AND REPLACE ANY DAMAGED PARTS ON THE PORTABLE LIGHTED RUNWAY CLOSURE MARKERS.



TEMPORARY SECURITY DOUBLE SWING GATE
N.T.S.

NOTES:

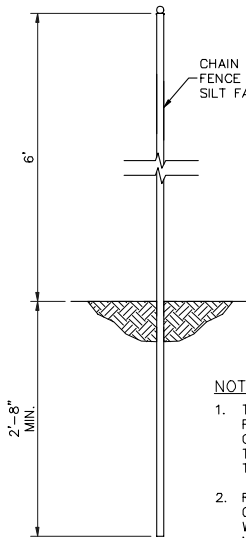
- TEMPORARY GATES ARE TO BE REMOVED AFTER CONSTRUCTION IS COMPLETE. COST OF GATES ARE TO BE INCLUDED IN MOBILIZATION PAY ITEM. EXACT LOCATION OF GATES TO BE COORDINATED WITH OWNER.
- TEMPORARY GATE DETAIL SHOW MAX WIDTH, AND LIKELY HEIGHT. CONTRACTOR TO MEASURE ALL ACTUAL DIMENSIONS IN FIELD PRIOR TO FABRICATION.



TEMPORARY ACCESS ROAD SECTION
N.T.S.

ACCESS ROAD NOTES:

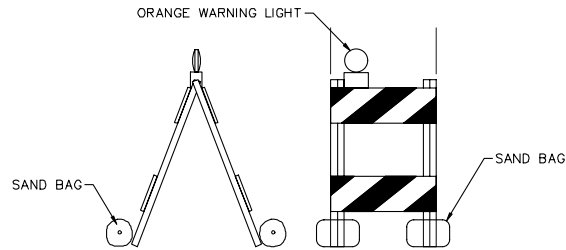
- THE EXACT LIMITS AND LOCATION OF THE ACCESS ROAD WILL BE COORDINATED WITH FFE OPERATIONS STAFF AND SHALL BE APPROVED IN THE FIELD BY THE ENGINEER.
- THE ACCESS ROAD SHALL BE 8" THICK.
- AFTER COMPLETION OF CONSTRUCTION, THE ACCESS ROAD SHALL BE RETURNED TO ITS ORIGINAL CONDITION OR BETTER. THE CONTRACTOR WILL SOD LIMITS.
- ROAD TO BE PAID FOR AS INCIDENTAL TO MOBILIZATION (C-105)



TEMPORARY SECURITY FENCE DETAIL
N.T.S.

NOTES:

- TEMPORARY FENCE AND SILT FABRIC MUST BE MAINTAINED IN GOOD WORKING ORDER THROUGHOUT THE DURATION OF THE CONSTRUCTION.
- REPAIRS, AS REQUIRED OR AS ORDERED BY THE AIRPORT STAFF, WILL BE MADE WITHIN 24 HRS OF NOTICE.



TYPE II BARRICADE DETAIL
N.T.S.



ENGINEER: THOMAS F. O'DONNELL
REG. No. 65478
DATE: _____
DRAWN BY: _____
DESIGNED BY: _____
CHECKED BY: _____
FIELD BOOK: _____

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

NO.	DATE	BY	CHKD	DESCRIPTION

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
SAFETY NOTES AND DETAILS

SHEET NO.	OF
C05	110
TOTAL:	110
CAD FILE:	12764-C05-SAFE
DATE:	12/26/24
FILE NO.	12764-C05-SAFE



APPENDIX B

Access and Staging Plan

LEGEND

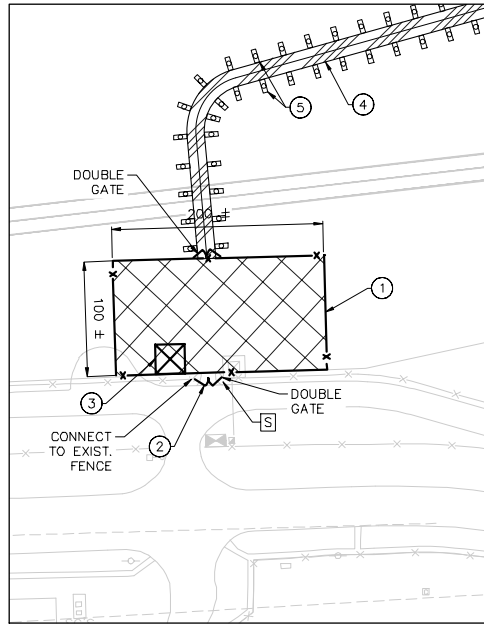
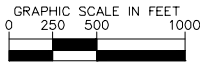
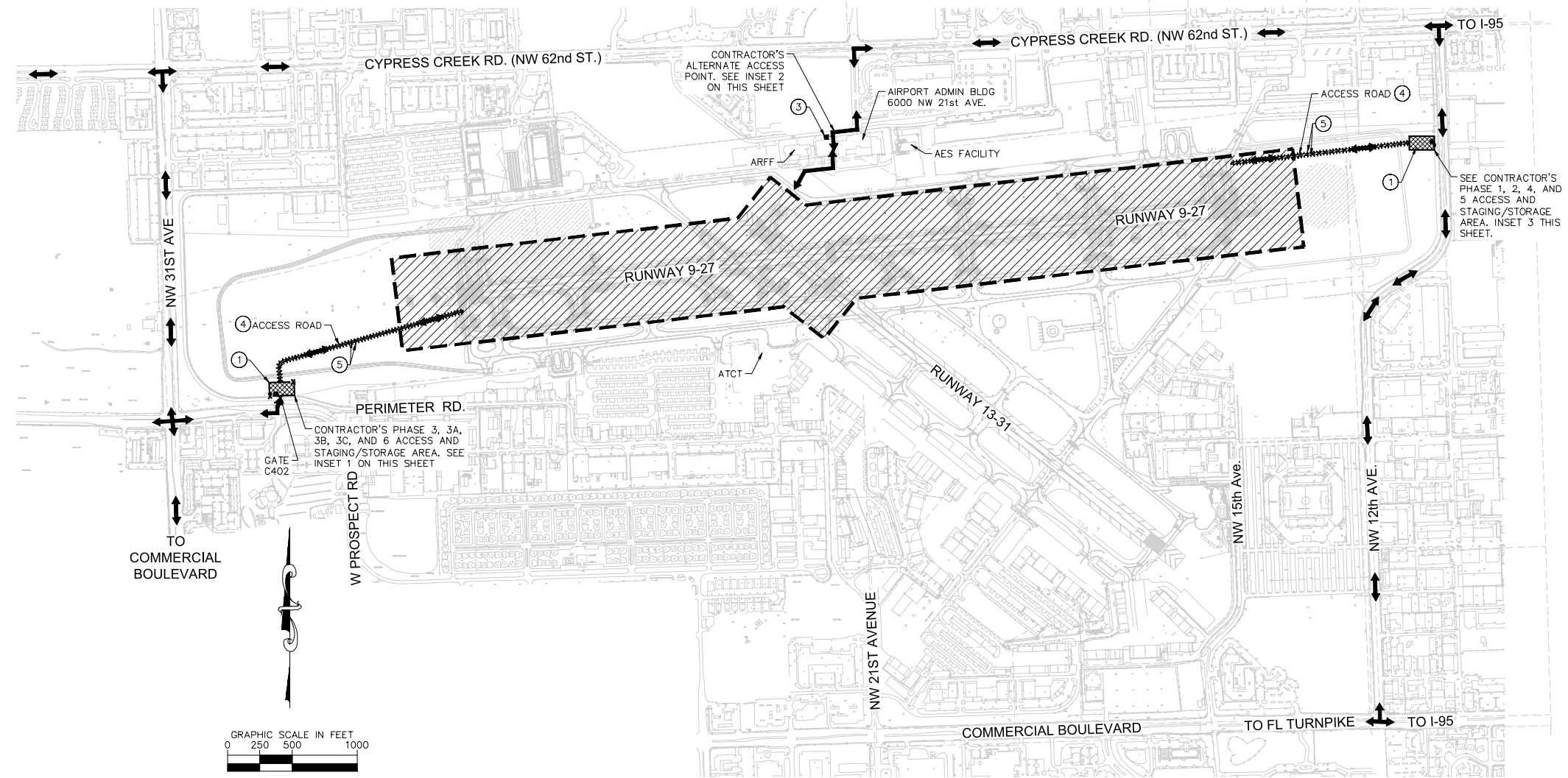
- ACCESS / HAUL ROUTE
- CONTRACTOR'S STAGING AND STORAGE AREA. MAXIMUM EQUIPMENT HEIGHT = 20'
- PROJECT WORK AREA
- TEMPORARY SECURITY FENCE.
- TYPE II BARRICADE WITH FLASHING LIGHT AT 30' SPACING. SEE DETAIL SHEET C05.
- RSA RUNWAY SAFETY AREA
- 1 CONTRACTOR'S STAGING AND STORAGE AREA. CONTRACTOR TO CONSTRUCT SO AS TO AVOID BURROWING OWL/GOPHER TORTOISE BURROWS. SEE SHEET C05 FOR WORK ACTIVITY SEPARATION AND DETAILS. EMPLOYEE VEHICLES SHALL NOT GO BEYOND CONTRACTOR'S FENCED STAGING AREA.
- 2 CONTRACTOR'S ACCESS GATE. CONTRACTOR TO REMOVE EXISTING GATES PRIOR TO CONSTRUCTION. TEMPORARY DOUBLE GATES TO BE INSTALLED. TEMPORARY GATES TO BE REMOVED AND ORIGINAL GATES RESTORED AFTER CONSTRUCTION IS COMPLETE. INSTALLATION AND REMOVAL OF TEMPORARY GATES TO BE INCLUDED IN MOBILIZATION PAY ITEM.
- 3 CONTRACTOR'S SECURITY GUARD SHACK LOCATION.
- 4 APPROXIMATE LOCATION OF TEMPORARY ACCESS ROAD. LOCATION TO BE FIELD ADJUSTED TO AVOID EXISTING OWL/GOPHER TORTOISE BURROWS AND AS DIRECTED BY OWNER. REMOVE AND SOD WHEN CONSTRUCTION IS COMPLETE. SEE DETAILS ON SHEET C05.
- 5 TYPE II BARRICADES WITH FLASHING LIGHT AT 30' SPACING SEE DETAIL SHEET C05
- S CONTRACTOR TRAFFIC SIGN

CONTRACTOR STAGING AREA NOTES:

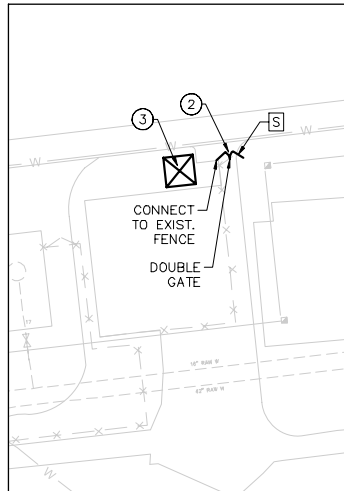
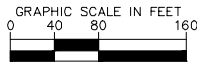
1. THE EXACT LIMITS, LIGHTING AND SECURITY REQUIREMENTS OF THE CONTRACTOR'S STAGING AND STORAGE AREA SHALL BE ESTABLISHED BY THE CONTRACTOR WITH THE APPROVAL OF THE OWNER IN THE AREAS GENERALLY AS SHOWN ON THE PLANS. ANY AND ALL REQUIRED UTILITIES FOR THE CONTRACTOR'S OPERATIONS SHALL BE ARRANGED FOR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

ACCESS AND HAUL ROAD NOTES:

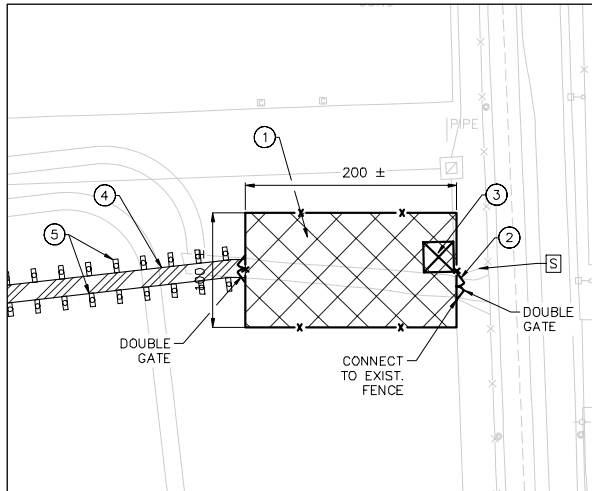
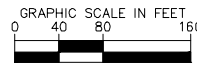
1. HAUL ROADS TO BE USED UNDER THIS PROJECT SHALL BE THOSE INDICATED ON THE DRAWINGS OR OTHERWISE SPECIFICALLY AUTHORIZED BY THE OWNER. IN GENERAL, THE CONTRACTOR SHALL CONFINE EQUIPMENT AND HAULING TO THE AREAS UNDER CONSTRUCTION. NO DEBRIS SHALL BE ALLOWED ON THE ROADWAYS OR AIRPORT PAVED SURFACES.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



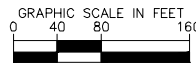
INSET 1 - CONTRACTOR'S PHASE 3, 3A, 3B, 3C, AND 6 ACCESS AND STAGING / STORAGE AREA



INSET 2 - CONTRACTOR'S ALTERNATE ACCESS POINT



INSET 3 - CONTRACTOR'S PHASE 1, 2, 4 AND 5 ACCESS AND STAGING / STORAGE AREA



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

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PHONE: 561-836-2100 FAX: 561-728-2247
WWW.KH-HORN.COM

12764-C04-STAG
12764-C04-STAG
12764-C04-STAG
12764-C04-STAG

ENGINEER:
THOMAS F. O'DONNELL
REG. No. 65478
DATE

DATE: 06/07/2024
DRAWN BY: ALB
DESIGNED BY: KAS
CHECKED BY: TFO
FIELD BOOK:

FILE: 12764-C04-STAG

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHKD

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ACCESS AND STAGING AREA

SHEET NO. OF
C04 110

TOTAL: 110
CAD FILE: 12764-C04-STAG
12764-C04-STAG
12764-C04-STAG
12764-C04-STAG

12764-C04-STAG
12764-C04-STAG
12764-C04-STAG
12764-C04-STAG

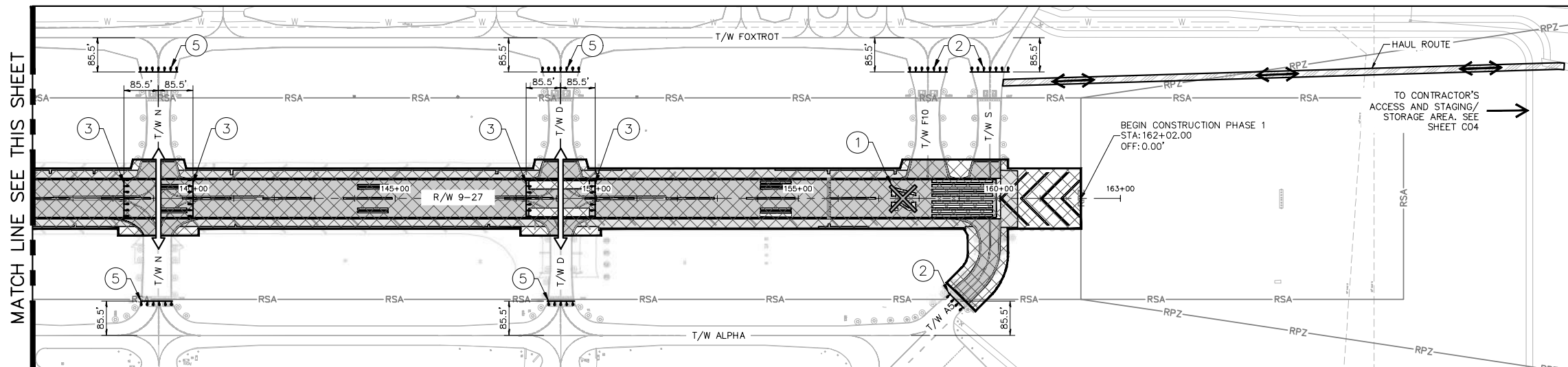
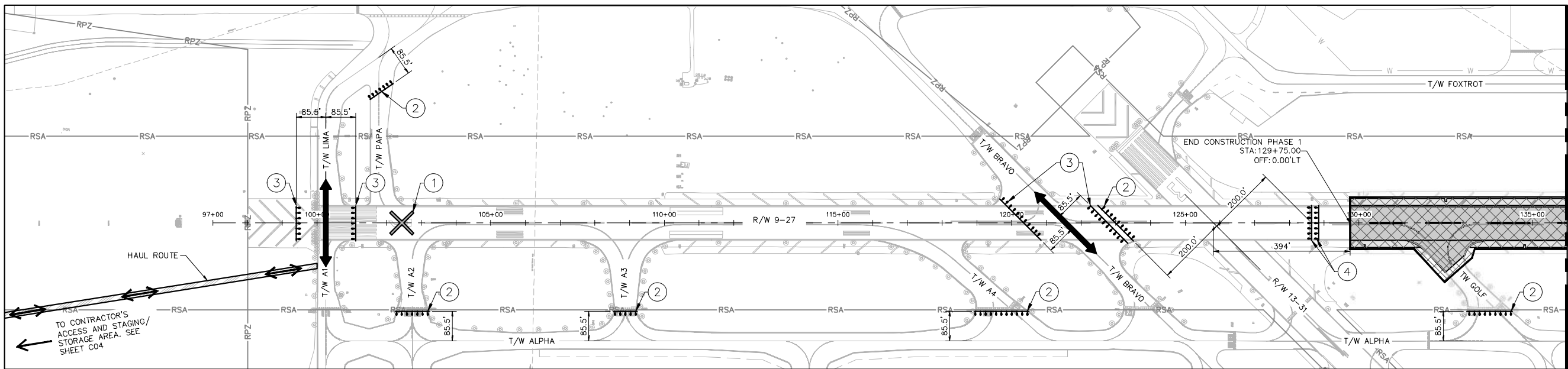
12764-C04-STAG
12764-C04-STAG
12764-C04-STAG
12764-C04-STAG



APPENDIX C

Phasing Plans

K:\FL\AVIATION\044693151_FXE_RW_9-27_REHAB\CADD\PLANSHEETS\12764-C101-PHASE1.DWG



LEGEND

- PHASE 1 WORK LIMITS
- LOW LEVEL AIRFIELD BARRICADES SEE DETAIL SHEET C05
- TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05
- TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05
- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE
- HAUL ROUTE
- TAXIWAY AIRCRAFT CROSSING, OUTSIDE OF PHASE LIMITS, IN PLACE FOR DURATION OF PHASE
- TAXIWAY AIRCRAFT CROSSING, INSIDE OF PHASE LIMITS, IN PLACE WHEN CROSSING IS OPERATIONAL
- LOCATION OF LIGHTED RUNWAY CLOSURE "X"
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE TAXIWAY. IN PLACE FOR DURATION OF PHASE.
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO ALLOW TAXIWAY CROSSING
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE RUNWAY
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE TAXIWAY. IN PLACE WHEN CONTRACTOR IS NOT PROVIDING TW CROSSING FOR AIRCRAFT. WHEN A CROSSING IS BEING USED, THESE BARRICADES WILL BE REMOVED AND THE CONTRACTOR MUST INSTALL GROUP 3 BARRICADES.

PRIMARY ITEMS OF WORK*

- SUBMIT AND COMPLETE THE REVIEW PROCESS FOR ALL SHOP DRAWINGS AND SUBMITTALS.
- REMOVE, SALVAGE, AND STORE EXISTING AIRFIELD GATES.
- INSTALL TEMPORARY CONSTRUCTION GATES AND ANY SIGNAGE AS REQUIRED
- PREPARE STAGING AREA(S) INCLUDING BUT NOT LIMITED TO CONSTRUCTING STAGING AREA BASE.
- INSTALL STAGING AREA FENCING AND OTHER SECURITY MEASURES.
- PERFORM PRE-CONSTRUCTION SURVEY
- INSTALL STORMWATER POLLUTION PREVENTION (SWPP) MEASURES
- PERFORM CONTRACTOR'S QUALITY CONTROL WORKSHOP
- PROCURE AND RECEIVE ALL ELECTRICAL ITEMS AND COMPONENTS. INVENTORIED, STAGED, AND STORED ON SITE.
- PERFORM PRE-CONSTRUCTION MEETING.

PRIMARY ITEMS OF WORK*

- INSTALL BARRICADES AND LIGHTED XS.
- MILL BITUMINOUS ASPHALT.
- PERFORM ELECTRICAL DEMOLITION AND INSTALLATION WORK.
- PAVE (P-401) ASPHALT CONTROL STRIP (250 TONS)
- PAVE (P-401 AND P-403) ASPHALT.
- APPLY TEMPORARY PAINT MARKING.
- INSTALL TOPSOILING AND SODDING.

*THIS LIST IS NOT EXHAUSTIVE NOR SEQUENTIAL; IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT AND CONTRACT DOCUMENTS TO PERFORM ALL REQUIRED WORK IN ITS APPROPRIATE SEQUENCE.

OPERATIONS

ALL WORK, WITH THE EXCEPTION OF THE PRE-CONSTRUCTION SURVEY AND INSTALLATION OF SWPP MEASURES, WILL BE PERFORMED OUTSIDE OF THE AIRPORT SAFETY AREAS AND PROTECTED SURFACES. ALL AIRPORT INFRASTRUCTURE TO REMAIN OPEN. WORK WILL BE PERFORMED 8.5 HOURS PER DAY, MONDAY THROUGH FRIDAY, 7:30 AM TO 4:00 PM.

FOR THE PRE-CONSTRUCTION SURVEY AND INSTALLATION OF SWPP MEASURES, THE CONTRACTOR IS TO COORDINATE WITH AIRPORT STAFF REGARDING ACCESS AND CLOSURE OF AIRPORT INFRASTRUCTURE. THE CONTRACTOR WILL BE ALLOTTED 14 NIGHTLY CLOSURES FROM 10:00 PM TO 6:00 PM FOR RUNWAY 9-27. CONCURRENTLY, OVER ONE WEEKEND, FRIDAY TO SUNDAY, RUNWAY 9-27 AND 13-31 WILL BE CLOSED NIGHTLY 10:00 PM TO 6:00 AM. CONTRACTOR TO COORDINATE ALL CLOSURES TWO WEEKS IN ADVANCE. ALL CLOSURES WILL BE "ROLLING" AND CONTROLLED BY AIRPORT OPERATIONS STAFF. CONTRACTOR TO COORDINATE CLOSELY WITH AIRPORT OPERATIONS STAFF DURING CLOSURES. WORK TIMES ARE REFERENCED FROM START OF SHIFT.

OPERATIONS

CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF RUNWAY 9-27 AND CONNECTING TAXIWAYS A5, D, G, N, F10, AND S. CONTRACTOR TO PROVIDE ONE TAXIWAY CROSSING THROUGH CONSTRUCTION AREA AT ALL TIMES. RUNWAY 13-31 AND TAXIWAYS A, B, E, AND F WILL REMAIN OPEN. WORK WILL BE PERFORMED 24 HOURS PER DAY, MONDAY 10:00 PM TO FRIDAY 10:00 PM. WORK TIMES ARE REFERENCED FROM START OF SHIFT.

CONTRACTOR TO COORDINATE BARRICADE AND LIGHTED X PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE. BARRICADE LOCATIONS ARE SCHEMATIC AND MAY BE ADJUSTED IN THE FIELD AS NECESSARY FOR THE COMPLETION OF THE WORK.

PHASE M (MOBILIZATION)

PHASE 1

LIMITS OF WORK

WITH THE EXCEPTION OF THE PRE-CONSTRUCTION SURVEY AND INSTALLATION OF SWPP MEASURES, THE LIMITS OF THIS WORK AREA WILL CONSIST OF ALL ACCESS POINTS AND THE CONTRACTOR'S STAGING AREA(S). FOR THE PRE-CONSTRUCTION SURVEY THE LIMITS OF WORK WILL BE WITHIN THE RUNWAY SAFETY AREAS. FOR THE INSTALLATION OF SWPP MEASURES THE LIMITS OF WORK WILL BE THE INFIELD AREA NORTH OF RUNWAY 9-27, EAST OF RUNWAY 13-31, AND SOUTH OF TAXIWAY F.

LIMITS OF WORK

THE LIMITS OF THIS PHASE ARE GENERALLY ALONG RUNWAY 9-27 BETWEEN 85.5 FEET SOUTH OF TAXIWAY F, 85.5 FEET NORTH OF TAXIWAY A, AND 394 FEET EAST OF RUNWAY 13-31.

WORK SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER THE COMPLETION OF THE MOBILIZATION PHASE. PHASE 1, 2, AND 3 WILL BE CONTINUOUS.

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Kimley-Horn

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QUANTUM
Electrical Engineering, Inc.
2010 WEST PARKWAY WEST, SUITE 100
WEST PALM BEACH, FL 33411
PHONE: 561-835-5500 FAX: 561-728-2047
WWW.QUANTUM-EE.COM

BID SET

ENGINEER:
THOMAS F. O'DONNELL
REG. NO. 65478
DATE

DRAWN BY:
ALB
DATE: 06/07/2024

DESIGNED BY:
KAS
SCALE: AS NOTED

CHECKED BY:
TFO
FIELD BOOK:

FILE: 901-840-0825
PAC

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 # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PHASING AND SAFETY PLAN - PHASE 1

SHEET NO.	OF
C101	110
TOTAL:	110
CAD FILE:	12764-C101-PHASE1
PRINTED FILE NO.	

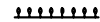
Exhibit 1B

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LEGEND



PHASE 2 WORK LIMITS



LOW LEVEL AIRFIELD BARRICADES SEE DETAIL SHEET C05



TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05



TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05



RSA RUNWAY SAFETY AREA



RPZ RUNWAY PROTECTION ZONE



HAUL ROUTE



TAXIWAY AIRCRAFT CROSSING, OUTSIDE OF PHASE LIMITS, IN PLACE FOR DURATION OF PHASE



TAXIWAY AIRCRAFT CROSSING, INSIDE OF PHASE LIMITS, IN PLACE WHEN CROSSING IS OPERATIONAL



LOCATION OF LIGHTED RUNWAY CLOSURE "X"



LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE TAXIWAY. IN PLACE FOR DURATION OF PHASE.



LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO ALLOW TAXIWAY CROSSING



LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE RUNWAY



LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE TAXIWAY. IN PLACE WHEN CONTRACTOR IS NOT PROVIDING TW CROSSING FOR AIRCRAFT. WHEN A CROSSING IS BEING USED, THESE BARRICADES WILL BE REMOVED AND THE CONTRACTOR MUST INSTALL GROUP 3 BARRICADES.

PRIMARY ITEMS OF WORK*

1. INSTALL BARRICADES AND LIGHTED XS.
2. MILL BITUMINOUS ASPHALT.
3. PERFORM ELECTRICAL DEMOLITION AND INSTALLATION WORK.
4. PAVE (P-401 AND P-403) ASPHALT.
5. APPLY TEMPORARY PAINT MARKING.
6. INSTALL TOPSOLING AND SODDING.
7. REMOVE LIGHTED XS ON RUNWAY 13-31.

*THIS LIST IS NOT EXHAUSTIVE NOR SEQUENTIAL; IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT AND CONTRACT DOCUMENTS TO PERFORM ALL REQUIRED WORK IN ITS APPROPRIATE SEQUENCE.

OPERATIONS

CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF RUNWAY 9-27, RUNWAY 13-31, AND TAXIWAYS A AND B. TAXIWAY A1, D, E, F, and L WILL REMAIN OPEN. WORK WILL BE PERFORMED 24 HOURS PER DAY, FRIDAY 10:00 PM TO MONDAY 6:00 AM. WORK TIMES ARE REFERENCED FROM START OF SHIFT.

CONTRACTOR TO COORDINATE BARRICADE AND LIGHTED X PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE. BARRICADE LOCATIONS ARE SCHEMATIC AND MAY BE ADJUSTED IN THE FIELD AS NECESSARY FOR THE COMPLETION OF THE WORK. UPON THE COMPLETION OF THIS PHASE, THE CONTRACTOR WILL REMOVE LIGHTED XS FROM RUNWAY 13-31.

PHASE 2

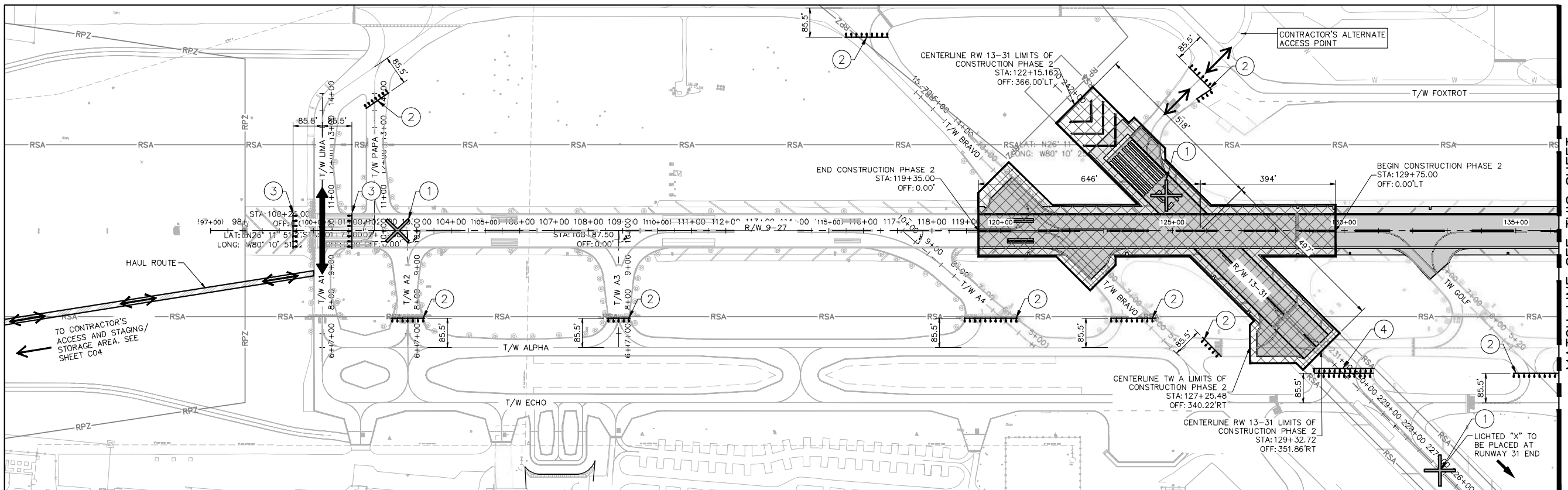
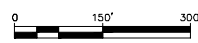
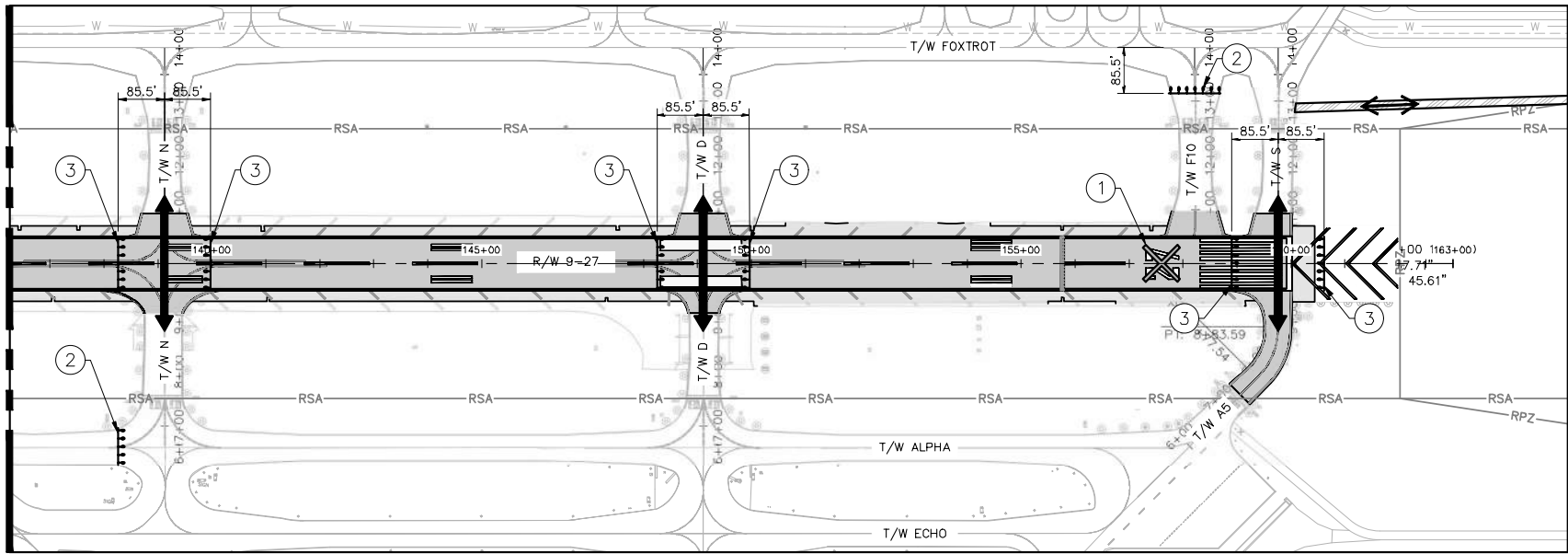
LIMITS OF WORK

FOR RUNWAY 9-27, THE LIMITS OF THIS PHASE ARE GENERALLY ALONG RUNWAY 9-27 BETWEEN 85.5 FEET SOUTH OF TAXIWAY F, 394 FEET EAST OF RUNWAY 13-31, 85.5 FEET NORTH OF TAXIWAY A, AND EAST OF TAXIWAY B. FOR RUNWAY 13-31, THE LIMITS OF THIS PROJECT ARE GENERALLY ALONG RUNWAY 13-31 BETWEEN THE RUNWAY 13 BLAST PAD, 85.5 FEET WEST OF TAXIWAY N, THE RUNWAY 9-27 SAFETY AREA, AND 85.5 FEET EAST OF TAXIWAY B.

WORK SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER THE COMPLETION OF PHASE 1. PHASE 1, 2, AND 3 WILL BE CONTINUOUS.

MATCH LINE SEE THIS SHEET



MATCH LINE SEE THIS SHEET

ENGINEER:
THOMAS F. O'DONNELL
REG. No. 65478
DATE

DATE: 06/07/2024
DRAWN BY: ALB
DESIGNED BY: SCALE: AS NOTED
KAS
CHECKED BY: TFO
FIELD BOOK:

FILE: 801-840-0825
PAC

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHECK'D

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PHASING AND SAFETY PLAN - PHASE 2

SHEET NO. OF
C102 110
TOTAL: 12764-C102-PHAS2
CAD FILE: 12764-C102-PHAS2
DRAWING FILE NO.

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Kimley-Horn

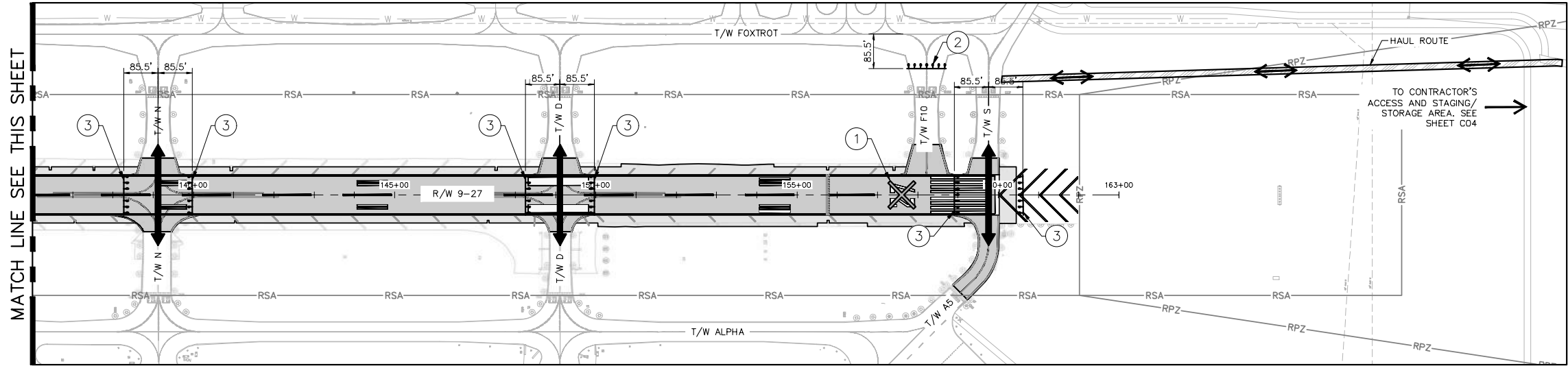
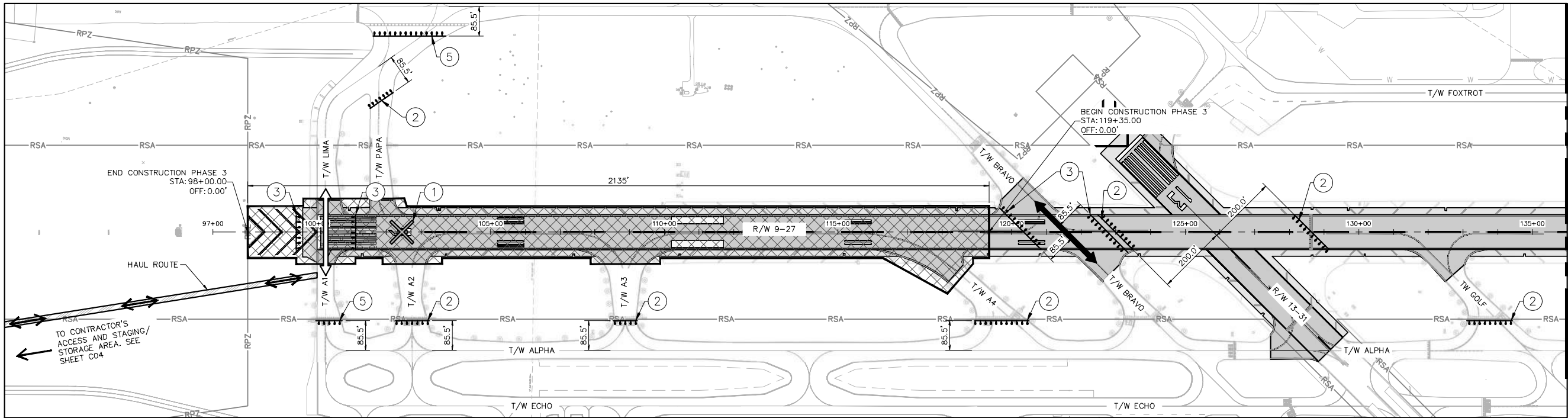
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400 PETER ROAD, SUITE 200, PALM BEACH, FL 33480
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WWW.KIMLEY-HORN.COM

2019 WEST PARKWAY WEST, SUITE 100
WEST PALM BEACH, FL 33411
WWW.QUANTUMENGINEERING.COM

EXHIBIT 1B

K:\FL\AVIATION\044693151_FXE_RW_9-27_REHAB\CADD\PLANSHEETS\12764-C103-PHAS3.DWG



LEGEND

- PHASE 3 WORK LIMITS
- LOW LEVEL AIRFIELD BARRICADES SEE DETAIL SHEET C05
- TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05
- TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05
- RUNWAY SAFETY AREA
- RUNWAY PROTECTION ZONE
- HAUL ROUTE
- TAXIWAY AIRCRAFT CROSSING, OUTSIDE OF PHASE LIMITS, IN PLACE FOR DURATION OF PHASE
- TAXIWAY AIRCRAFT CROSSING, INSIDE OF PHASE LIMITS, IN PLACE WHEN CROSSING IS OPERATIONAL
- LOCATION OF LIGHTED RUNWAY CLOSURE "X"
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE TAXIWAY, IN PLACE FOR DURATION OF PHASE.
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO ALLOW TAXIWAY CROSSING
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE RUNWAY
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE TAXIWAY, IN PLACE WHEN CONTRACTOR IS NOT PROVIDING TW CROSSING FOR AIRCRAFT. WHEN A CROSSING IS BEING USED, THESE BARRICADES WILL BE REMOVED AND THE CONTRACTOR MUST INSTALL GROUP 3 BARRICADES.

PRIMARY ITEMS OF WORK*

1. INSTALL BARRICADES AND LIGHTED XS.
2. MILL BITUMINOUS ASPHALT.
3. PERFORM ELECTRICAL DEMOLITION AND INSTALLATION WORK.
4. PAVE (P-401 AND P-403) ASPHALT.
5. APPLY TEMPORARY PAINT MARKING.
6. INSTALL TOPSOILING AND SODDING.
7. REMOVE BARRICADES AND LIGHTED XS.

*THIS LIST IS NOT EXHAUSTIVE NOR SEQUENTIAL; IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT AND CONTRACT DOCUMENTS TO PERFORM ALL REQUIRED WORK IN ITS APPROPRIATE SEQUENCE.

OPERATIONS

CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF RUNWAY 9-27, AND TAXIWAYS A1, A2, A3, A4, L AND P. RUNWAY 13-31 AND TAXIWAYS B, D, E, AND F WILL REMAIN OPEN. CONTRACTOR TO PROVIDE ONE TAXIWAY CROSSING THROUGH CONSTRUCTION AREA AT ALL TIMES. WORK WILL BE PERFORMED 24 HOURS PER DAY, MONDAY 6:00 AM TO THURSDAY 10:00 PM. WORK TIMES ARE REFERENCED FROM START OF SHIFT.

CONTRACTOR TO COORDINATE BARRICADE AND LIGHTED X PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE. BARRICADE LOCATIONS ARE SCHEMATIC AND MAY BE ADJUSTED IN THE FIELD AS NECESSARY FOR THE COMPLETION OF THE WORK. UPON THE COMPLETION OF THIS PHASE, THE CONTRACTOR WILL REMOVE ALL BARRICADES AND LIGHTED XS.

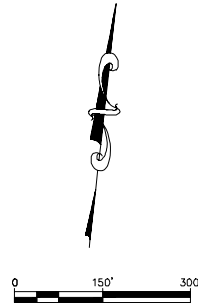
PHASE 3

LIMITS OF WORK

THE LIMITS OF THIS PHASE ARE GENERALLY ALONG RUNWAY 9-27 BETWEEN 85.5 FEET SOUTH OF TAXIWAY F, 85.5 FEET NORTH OF TAXIWAY A, AND WEST OF TAXIWAY B.

WORK SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER THE COMPLETION OF PHASE 2. PHASE 1, 2, AND 3 WILL BE CONTINUOUS



MATCH LINE SEE THIS SHEET

ENGINEER:
THOMAS F. O'DONNELL
REG. No. 65478
DATE

DRAWN BY: ALB
DATE: 06/07/2024

DESIGNED BY: KAS
SCALE: AS NOTED

CHECKED BY: TFO

FIELD BOOK:

FILE: 901-840-0825
PAC

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 # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PHASING AND SAFETY PLAN - PHASE 3

SHEET NO. OF
C103 110

TOTAL: 110
CAD FILE: 12764-C103-PHAS3
PRINTED FILE NO.

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800 PETER ROAD, SUITE 200, PALM WATERS, FL 33069
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WEST PALM BEACH, FL 33411
MI: 888-998-1100
LAURENCE, MO, USA

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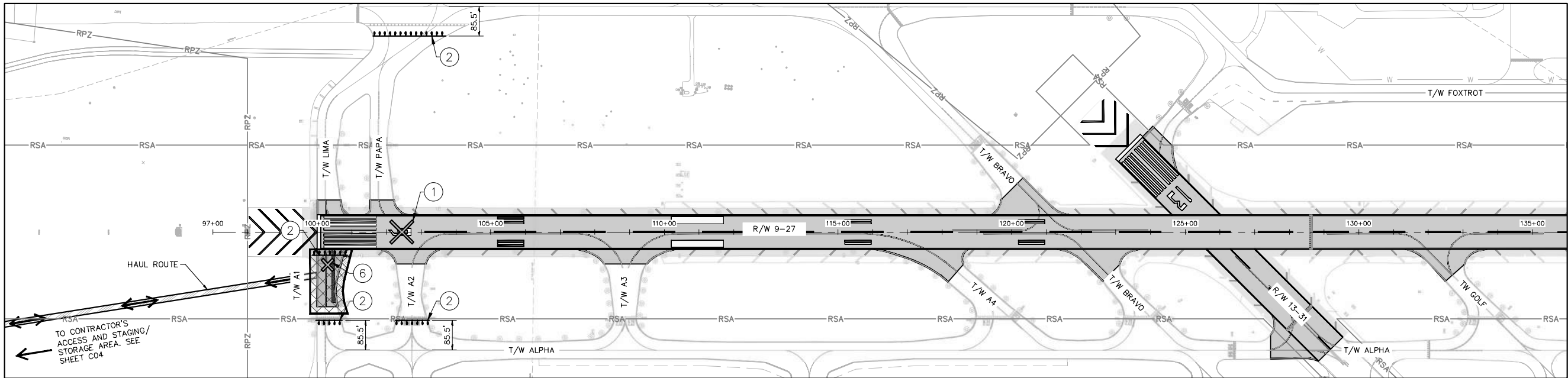
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EXHIBIT 1B

K:\FTL\AVIATION\044693151 FXE RW 9-27 REHAB\CADD\PLANSHEETS\12764-C103A-PHASE3A.DWG



LEGEND

- PHASE 3A - ADD ALT 1 WORK LIMITS
- LOW LEVEL AIRFIELD BARRICADES SEE DETAIL SHEET C05
- TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05
- TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05
- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE
- HAUL ROUTE
- TAXIWAY AIRCRAFT CROSSING, OUTSIDE OF PHASE LIMITS, IN PLACE FOR DURATION OF PHASE
- TAXIWAY AIRCRAFT CROSSING, INSIDE OF PHASE LIMITS, IN PLACE WHEN CROSSING IS OPERATIONAL
- LOCATION OF LIGHTED RUNWAY CLOSURE "X"
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE TAXIWAY, IN PLACE FOR DURATION OF PHASE.
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO ALLOW TAXIWAY CROSSING
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE RUNWAY
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE TAXIWAY, IN PLACE WHEN CONTRACTOR IS NOT PROVIDING TW CROSSING FOR AIRCRAFT. WHEN A CROSSING IS BEING USED, THESE BARRICADES WILL BE REMOVED AND THE CONTRACTOR MUST INSTALL GROUP 3 BARRICADES.
- LOCATION OF TEMP TAXIWAY CLOSURE MARKER

PRIMARY ITEMS OF WORK*

- 1.INSTALL BARRICADES AND LIGHTED XS.
- 2.PERFORM ELECTRICAL DEMOLITION WORK.
- 3.PERFORM CLEARING AND GRUBBING AND EXCAVATION
- 4.CONSTRUCT SUBBASE AND LIME ROCK BASE COURSES.
- 5.CONSTRUCT SHOULDERS.
- 6.CONSTRUCT TRANSITIONAL WEDGES AS REQUIRED TO OPEN RUNWAY.
- 7.APPLY PRIME COAT.
- 8.REMOVE LIGHTED XS.

OPERATIONS

CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF RUNWAY 9-27, AND TAXIWAY A1. CONTRACTOR WILL COORDINATE THE OPENING OF RUNWAY 13-31 AND TAXIWAY CROSSINGS WITH PHASES 1, 2, AND 3. WORK WILL BE PERFORMED 24 HOURS PER DAY CONCURRENT WITH PHASES 1, 2, AND 3. WORK TIMES ARE REFERENCED FROM START OF SHIFT

UPON THE COMPLETION OF THIS WORK, AND PRIOR TO OPENING RUNWAY 9-27, THE CONTRACTOR IS TO VERIFY THAT THERE ARE NO PAVEMENT DROP-OFFS EXCEEDING 1 1/2" INCHES AND SURFACE GRADES IN EXCESS OF 5% IN THE RUNWAY SAFETY AREA. IF THESE CONDITIONS EXIST, THEY MUST BE CORRECTED BY CONSTRUCTING TRANSITIONAL WEDGES USING SOIL OR ASPHALT.

CONTRACTOR TO COORDINATE BARRICADE AND LIGHTED X PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE. BARRICADE LOCATIONS ARE SCHEMATIC AND MAY BE ADJUSTED IN THE FIELD AS NECESSARY FOR THE COMPLETION OF THE WORK. UPON THE COMPLETION OF THIS PHASE THE CONTRACTOR WILL REMOVE THE LIGHTED XS. BARRICADES ARE TO REMAIN IN PLACE THROUGH THE COMPLETION OF PHASE 3A WORK AREA B.

LIMITS OF WORK

THE LIMITS OF THIS PHASE ARE GENERALLY ALONG TAXIWAY A1 BETWEEN RUNWAY 9-27 AND TAXIWAY A.

WORK SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED CONCURRENTLY WITH PHASE 1, 2, AND 3.

PHASE 3A - ADD ALT 1, WORK AREA B

OPERATIONS

CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF RUNWAY 9-27, AND TAXIWAY A1. RUNWAY 13-31, AND TAXIWAYS A, A2, B, E, F, L and P WILL REMAIN OPEN. WORK WILL BE PERFORMED NIGHTLY, 10:00 PM TO 6:00 AM, SUNDAY - THURSDAY. WORK TIMES ARE REFERENCED FROM START OF SHIFT.

CONTRACTOR TO COORDINATE BARRICADE AND LIGHTED X PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE. BARRICADE LOCATIONS ARE SCHEMATIC AND MAY BE ADJUSTED IN THE FIELD AS NECESSARY FOR THE COMPLETION OF THE WORK. CONTRACTOR TO REMOVE ALL LIGHTED XS UPON THE COMPLETION OF EACH NIGHT'S WORK. UPON THE COMPLETION OF THIS PHASE, THE CONTRACTOR WILL REMOVE ALL BARRICADES, TAXIWAY CLOSURE MARKERS, AND LIGHTED XS.

LIMITS OF WORK

THE LIMITS OF THIS PHASE ARE GENERALLY ALONG TAXIWAY A1 BETWEEN RUNWAY 9-27, AND TAXIWAY A.

WORK SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER PHASE 3A, WORK AREA A.

PHASE 3A - ADD ALT 1, WORK AREA C

PRIMARY ITEMS OF WORK*

- 1.ALLOW ASPHALT TO CURE 30 DAYS
- 2.INSTALL BARRICADES, TAXIWAY CLOSURE MARKER, AND LIGHTED XS - NIGHTLY
- 3.APPLY FINAL PAINT MARKING.
- 4.REMOVE BARRICADES, TAXIWAY CLOSURE MARKER, AND LIGHTED XS - NIGHTLY.

*THIS LIST IS NOT EXHAUSTIVE NOR SEQUENTIAL; IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT AND CONTRACT DOCUMENTS TO PERFORM ALL REQUIRED WORK IN ITS APPROPRIATE SEQUENCE.

OPERATIONS

CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF RUNWAY 9-27, AND TAXIWAY A1. RUNWAY 13-31, AND TAXIWAYS A, A2, B, E, F, L and P WILL REMAIN OPEN. WORK WILL BE PERFORMED NIGHTLY, 10:00 PM TO 6:00 AM, SUNDAY - THURSDAY. WORK TIMES ARE REFERENCED FROM START OF SHIFT.

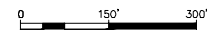
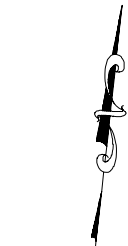
CONTRACTOR TO COORDINATE BARRICADE AND LIGHTED X PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE. BARRICADE LOCATIONS ARE SCHEMATIC AND MAY BE ADJUSTED IN THE FIELD AS NECESSARY FOR THE COMPLETION OF THE WORK. CONTRACTOR TO REMOVE ALL BARRICADES, TAXIWAY CLOSURE MARKERS, LIGHTED XS UPON THE COMPLETION OF EACH NIGHT'S WORK.

LIMITS OF WORK

THE LIMITS OF THIS PHASE ARE GENERALLY ALONG TAXIWAY A1 BETWEEN RUNWAY 9-27, AND TAXIWAY A.

WORK SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER PHASE 3A, WORK AREA B AND ITS 30 DAY ASPHALT CURE TIME



ENGINEER:
THOMAS F. O'DONNELL
REG. No. 65478
DATE:

DRAWN BY:
ALB
DATE: 06/07/2024
DESIGNED BY:
KAS
SCALE: AS NOTED
CHECKED BY:
TFO
FIELD BOOK:

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

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHKD

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PHASING AND SAFETY PLAN - PHASE 3A - ADD ALT 1

SHEET NO. 110 OF 110
C103A
TOTAL: 110
CAD FILE: 12764-C103A-PHASE3A
PRINTED FILE NO.

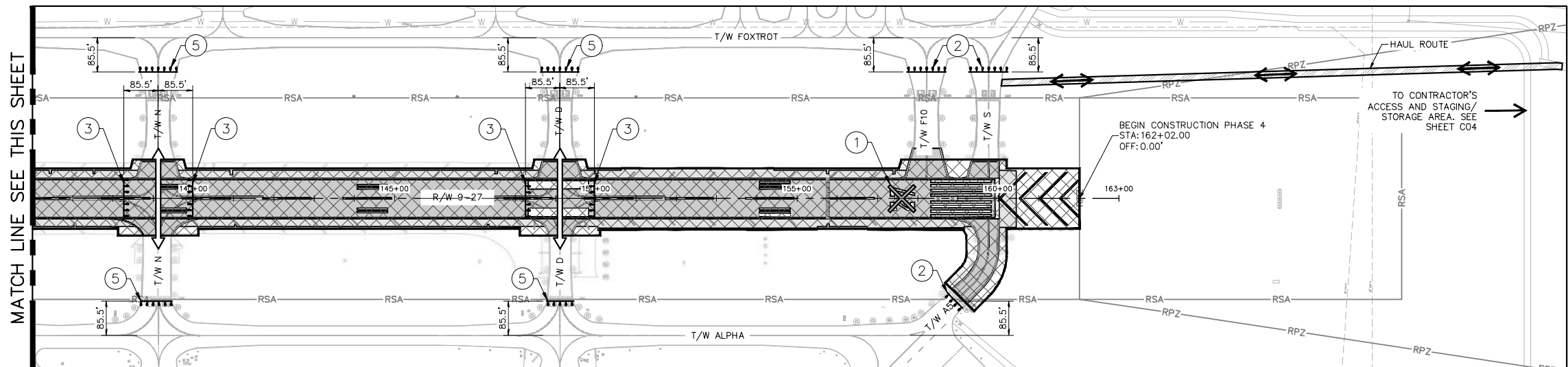
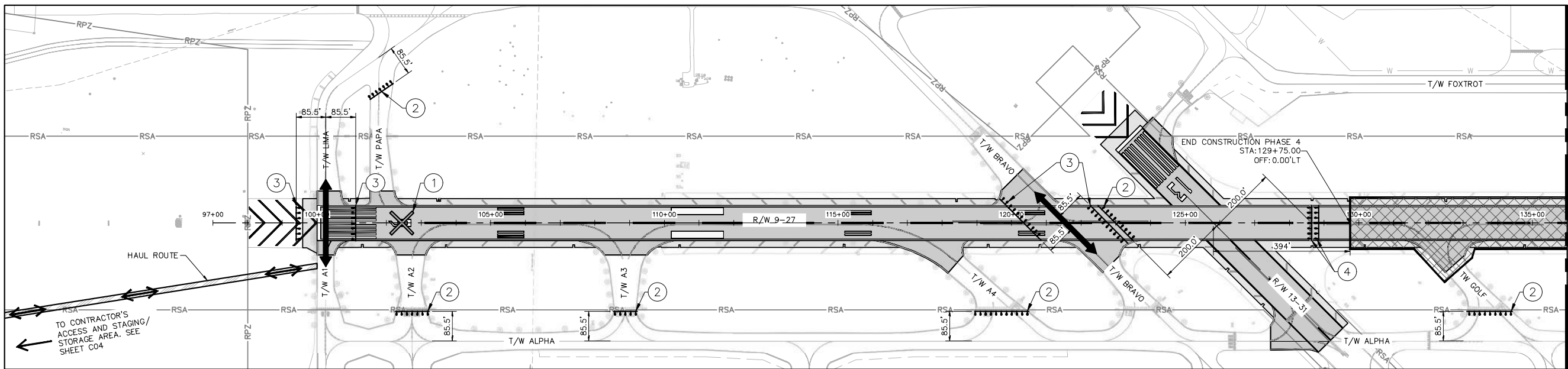
Kimley»Horn
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600 PETER ROAD, SUITE 200, PALM BEACH, FL 33480
PHONE: 561-836-2000 FAX: 561-728-2547
WWW.KIMLEY-HORN.COM RESIDENTIAL: 561-728-2548

QUANTUM
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904-399-7888
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EXHIBIT SET

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LEGEND

- PHASE 4 WORK LIMITS
- LOW LEVEL AIRFIELD BARRICADES SEE DETAIL SHEET C05
- TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05
- TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05
- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE
- HAUL ROUTE
- TAXIWAY AIRCRAFT CROSSING, OUTSIDE OF PHASE LIMITS, IN PLACE FOR DURATION OF PHASE
- TAXIWAY AIRCRAFT CROSSING, INSIDE OF PHASE LIMITS, IN PLACE WHEN CROSSING IS OPERATIONAL
- LOCATION OF LIGHTED RUNWAY CLOSURE "X"
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE TAXIWAY. IN PLACE FOR DURATION OF PHASE.
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO ALLOW TAXIWAY CROSSING
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE RUNWAY
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE TAXIWAY. IN PLACE WHEN CONTRACTOR IS NOT PROVIDING TW CROSSING FOR AIRCRAFT. WHEN A CROSSING IS BEING USED, THESE BARRICADES WILL BE REMOVED AND THE CONTRACTOR MUST INSTALL GROUP 3 BARRICADES.

PRIMARY ITEMS OF WORK*

- 1.ALLOW ASPHALT TO CURE 28 DAYS
- 2.INSTALL BARRICADES AND LIGHTED XS - NIGHTLY.
- 3.PERFORM RUNWAY 9-27 GROOVING.
- 4.APPLY SEAL COAT TO BLAST PAD.
- 5.APPLY FINAL PAINT MARKING.
- 6.REMOVE BARRICADES AND LIGHTED XS - NIGHTLY.

*THIS LIST IS NOT EXHAUSTIVE NOR SEQUENTIAL; IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT AND CONTRACT DOCUMENTS TO PERFORM ALL REQUIRED WORK IN ITS APPROPRIATE SEQUENCE.

OPERATIONS

CONTRACTOR WILL ALLOW ASPHALT TO CURE FOR 28 DAYS AFTER THE COMPLETION OF PHASE 3. DURING THIS TIME NO MAJOR WORK WILL BE PERFORMED. CONTRACTOR MAY PERFORM PUNCHLIST TYPE WORK ON A PULLBACK BASIS WITH PRIOR PERMISSION FROM AIRPORT STAFF. TWO WEEK ADVANCE NOTICE WILL BE REQUIRED.

CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF RUNWAY 9-27 AND CONNECTING TAXIWAYS A5, D, G, N, F10, AND S. CONTRACTOR TO PROVIDE ONE TAXIWAY CROSSING THROUGH CONSTRUCTION AREA AT ALL TIMES. RUNWAY 13-31 AND TAXIWAYS A, B, E, AND F WILL REMAIN OPEN. WORK WILL BE PERFORMED NIGHTLY, 10:00 PM TO 6:00 AM SUNDAY - THURSDAY. WORK TIMES ARE REFERENCED FROM START OF SHIFT.

CONTRACTOR TO COORDINATE BARRICADE AND LIGHTED X PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE. BARRICADE LOCATIONS ARE SCHEMATIC AND MAY BE ADJUSTED IN THE FIELD AS NECESSARY FOR THE COMPLETION OF THE WORK. CONTRACTOR TO REMOVE ALL BARRICADES AND LIGHTED XS UPON THE COMPLETION OF EACH NIGHT'S WORK.

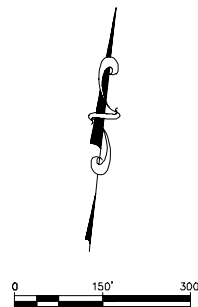
PHASE 4

LIMITS OF WORK

THE LIMITS OF THIS PHASE ARE GENERALLY ALONG RUNWAY 9-27 BETWEEN 85.5 FEET SOUTH OF TAXIWAY F, 85.5 FEET NORTH OF TAXIWAY A, AND 394 FEET EAST OF RUNWAY 13-31.

WORK SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER THE COMPLETION OF PHASE 3 AND ITS 28 DAY ASPHALT CURE TIME.



Kimley-Horn & Associates, Inc. 2001 WEST PARKWAY NORTH SUITE 100 PALM BEACH, FL 33411 PHONE: 561-833-2000 FAX: 561-728-2047 WWW.KIMLEY-HORN.COM

QUANTUM Electrical Engineering, Inc. 2001 WEST PARKWAY NORTH SUITE 100 PALM BEACH, FL 33411 PHONE: 561-833-2000 FAX: 561-728-2047 WWW.QUANTUM-EE.COM

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ENGINEER: THOMAS F. O'DONNELL REG. No. 65478 DATE: 06/07/2024

DRAWN BY: ALB DESIGNED BY: KAS AS NOTED CHECKED BY: TFO FIELD BOOK:

FILE: 801-840-0825

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 # 12764 RUNWAY 9-27 PAVEMENT REHABILITATION PHASING AND SAFETY PLAN - PHASE 4

SHEET NO. C104 OF 110















TOTAL: 110

CAD FILE: 12764-C104-PHAS4

PRINTED FILE NO. Exhibit 1B

K:\FL\AVIATION\044693151_FXE_RW_9-27_REHAB\CADD\PLANSHEETS\12764-C105-PHASE5.DWG

LEGEND

-  PHASE 5 WORK LIMITS
-  LOW LEVEL AIRFIELD BARRICADES SEE DETAIL SHEET C05
-  TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05
-  TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05
-  RUNWAY SAFETY AREA
-  RUNWAY PROTECTION ZONE
-  HAUL ROUTE
-  TAXIWAY AIRCRAFT CROSSING, OUTSIDE OF PHASE LIMITS, IN PLACE FOR DURATION OF PHASE
-  TAXIWAY AIRCRAFT CROSSING, INSIDE OF PHASE LIMITS, IN PLACE WHEN CROSSING IS OPERATIONAL
-  LOCATION OF LIGHTED RUNWAY CLOSURE "X"
-  LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE TAXIWAY, IN PLACE FOR DURATION OF PHASE.
-  LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO ALLOW TAXIWAY CROSSING
-  LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE RUNWAY
-  LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE TAXIWAY, IN PLACE WHEN CONTRACTOR IS NOT PROVIDING TW CROSSING FOR AIRCRAFT. WHEN A CROSSING IS BEING USED, THESE BARRICADES WILL BE REMOVED AND THE CONTRACTOR MUST INSTALL GROUP 3 BARRICADES.

PRIMARY ITEMS OF WORK*

1. INSTALL BARRICADES AND LIGHTED XS - NIGHTLY.
2. PERFORM RUNWAY 9-27 AND RUNWAY 13-31 GROOVING
3. APPLY SEAL COAT TO BLAST PAD
4. APPLY FINAL PAINT MARKING.
5. REMOVE BARRICADES AND LIGHTED XS - NIGHTLY.

*THIS LIST IS NOT EXHAUSTIVE NOR SEQUENTIAL; IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT AND CONTRACT DOCUMENTS TO PERFORM ALL REQUIRED WORK IN ITS APPROPRIATE SEQUENCE.

OPERATIONS

CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF RUNWAY 9-27, RUNWAY 13-31, AND TAXIWAY B. TAXIWAY A, D, E, F, and L WILL REMAIN OPEN. WORK WILL BE PERFORMED NIGHTLY, 10:00 PM TO 6:00 AM FRIDAY - SUNDAY, OVER TWO CONSECUTIVE WEEKENDS. WORK TIMES ARE REFERENCED FROM START OF SHIFT.

CONTRACTOR TO COORDINATE BARRICADE AND LIGHTED X PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE. BARRICADE LOCATIONS ARE SCHEMATIC AND MAY BE ADJUSTED IN THE FIELD AS NECESSARY FOR THE COMPLETION OF THE WORK. CONTRACTOR TO REMOVE ALL BARRICADES AND LIGHTED XS UPON THE COMPLETION OF EACH NIGHT'S WORK.

PHASE 5

LIMITS OF WORK

FOR RUNWAY 9-27, THE LIMITS OF THIS PHASE ARE GENERALLY ALONG RUNWAY 9-27 BETWEEN 85.5 FEET SOUTH OF TAXIWAY F, 394 FEET EAST OF RUNWAY 13-31, 85.5 FEET NORTH OF TAXIWAY A, AND EAST OF TAXIWAY B. FOR RUNWAY 13-31, THE LIMITS OF THIS PROJECT ARE GENERALLY ALONG RUNWAY 13-31 BETWEEN THE RUNWAY 13 BLAST PAD, 85.5 FEET WEST OF TAXIWAY N, THE RUNWAY 9-27 SAFETY AREA, AND 85.5 FEET EAST OF TAXIWAY B.

WORK SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED CONCURRENTLY WITH PHASES 4 AND 6 OVER TWO CONSECUTIVE WEEKENDS.

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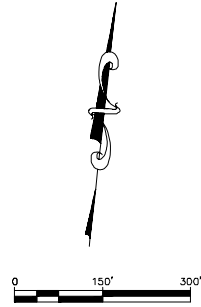
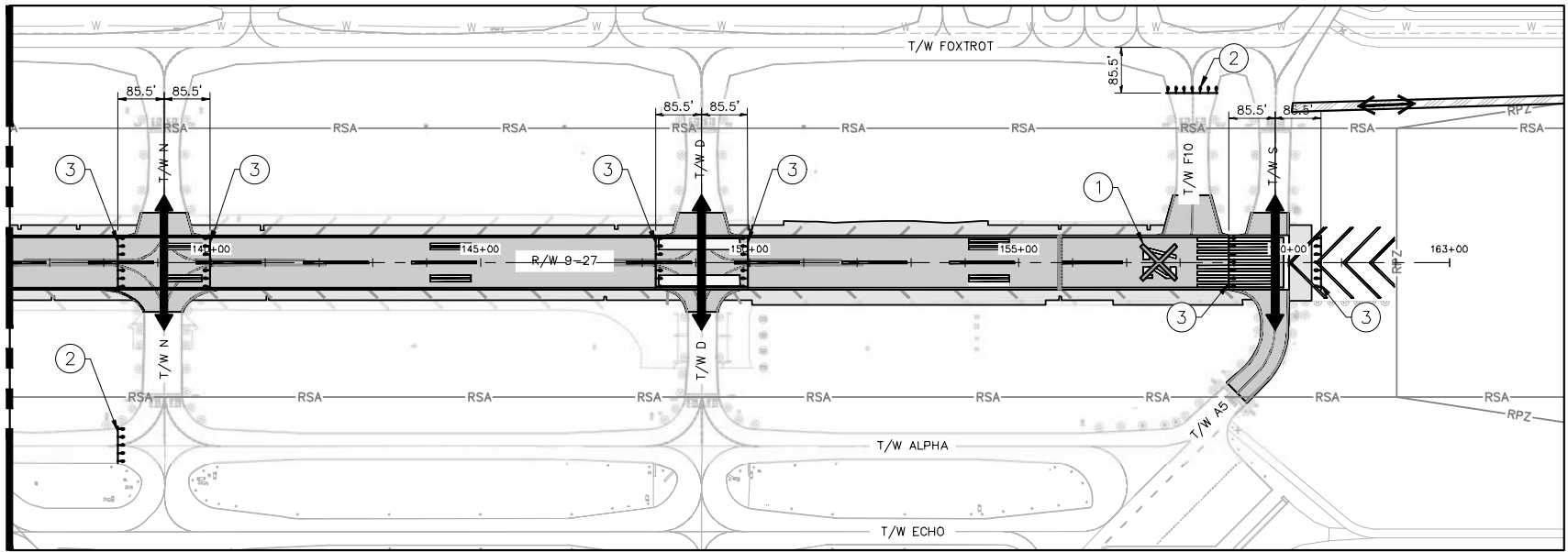
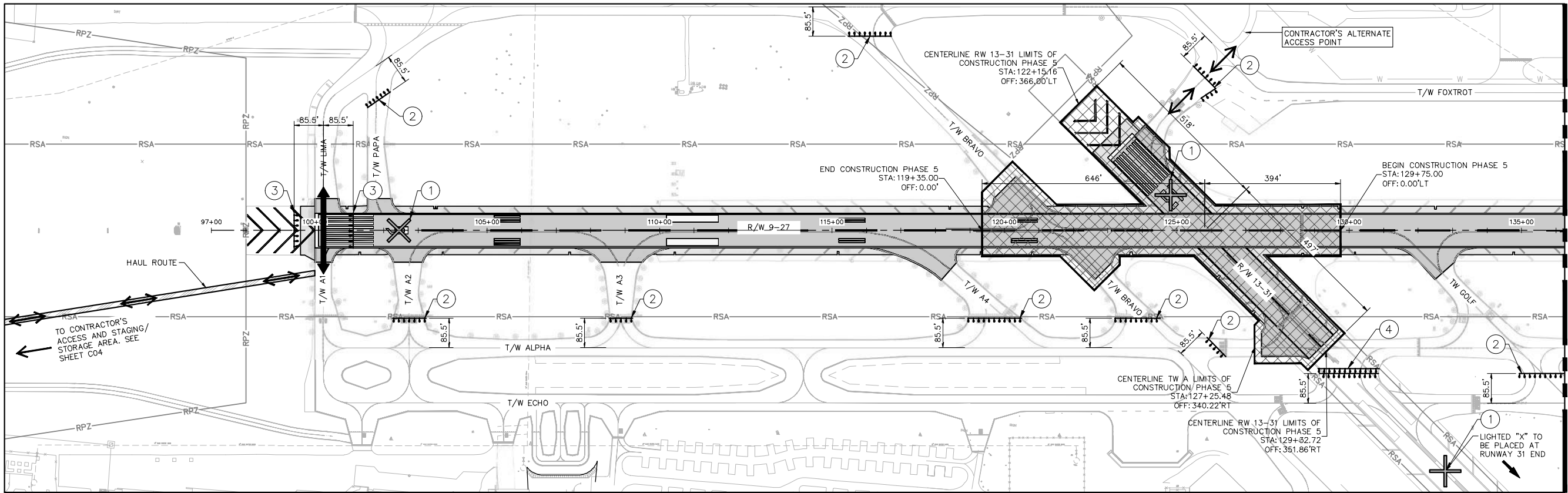
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Kimley-Horn

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600 PETER ROAD, SUITE 200, PALM BEACH, FL 33409
PHONE: 561-838-5500 FAX: 561-728-2247
WWW.KH-FL.COM

QUANTUM

Electrical Engineering, Inc.
2701 WEST PARKWAY WEST, SUITE 100
WEST PALM BEACH, FL 33411
WWW.QUANTUM-EE.COM



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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 # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PHASING AND SAFETY PLAN - PHASE 5

SHEET NO.	OF
C105	110
TOTAL:	110
CAD FILE:	12764-C105-PHASE5
DATE:	06/07/2024
FILE NO.	12764-C105-PHASE5

ENGINEER:
THOMAS F. O'DONNELL
REG. No. 65478
DATE

DRAWN BY:
ALB
DATE: 06/07/2024

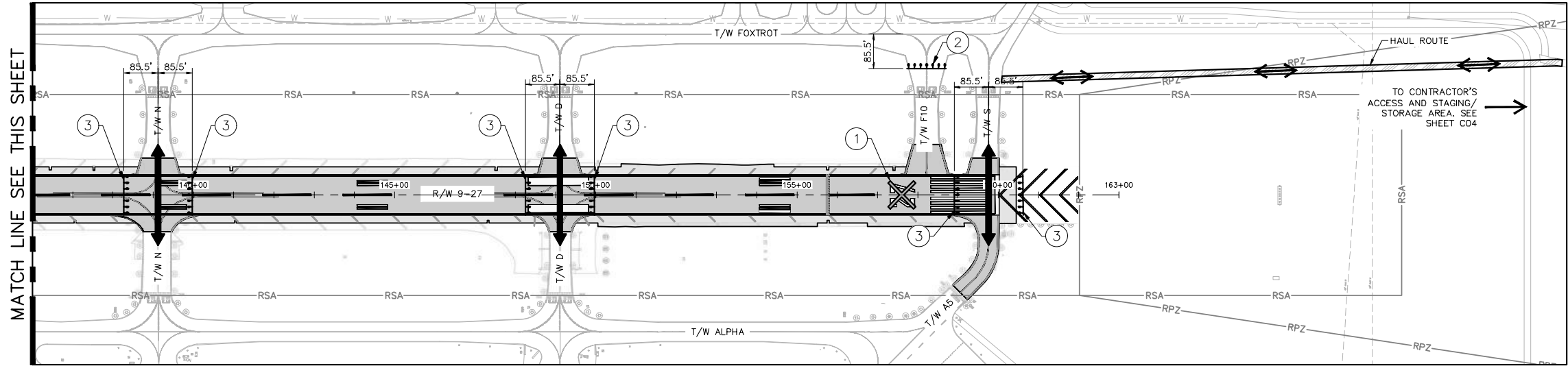
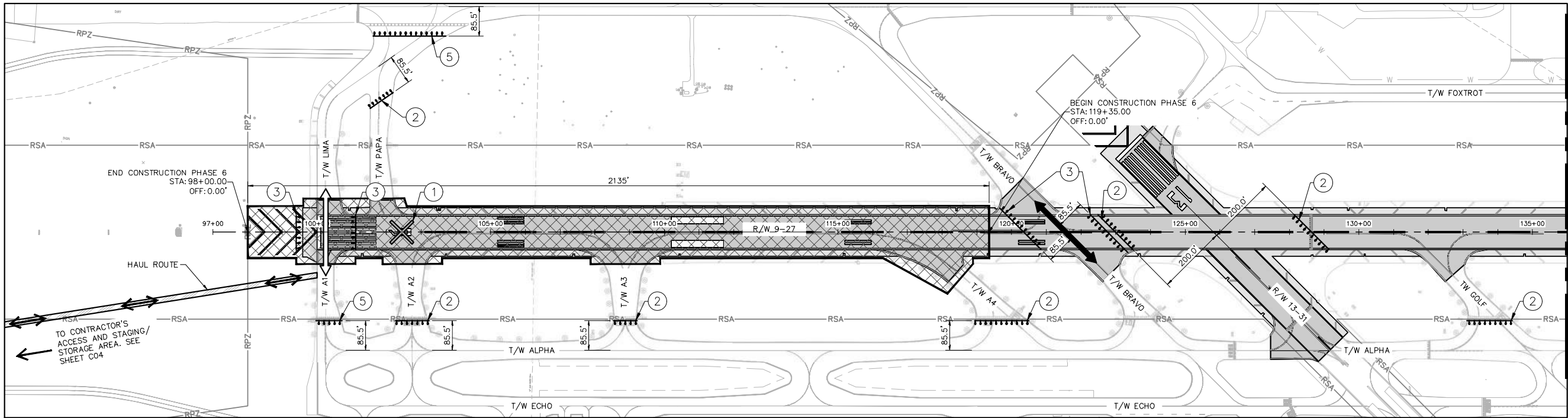
DESIGNED BY:
KAS
SCALE: AS NOTED

CHECKED BY:
TFO

FIELD BOOK:

EXHIBIT 1B

K:\FL\AVIATION\044693151_FXE_RW_9-27_REHAB\CADD\PLANSHEETS\12764-C106-PHAS6.DWG



LEGEND

- PHASE 6 WORK LIMITS
- LOW LEVEL AIRFIELD BARRICADES SEE DETAIL SHEET C05
- TEMP. TAXIWAY CLOSURE MARKER SEE DETAIL SHEET C05
- TEMP. LIGHTED RUNWAY CLOSURE MARKER SEE DETAIL SHEET C05
- RSA RUNWAY SAFETY AREA
- RPZ RUNWAY PROTECTION ZONE
- HAUL ROUTE
- TAXIWAY AIRCRAFT CROSSING, OUTSIDE OF PHASE LIMITS, IN PLACE FOR DURATION OF PHASE
- TAXIWAY AIRCRAFT CROSSING, INSIDE OF PHASE LIMITS, IN PLACE WHEN CROSSING IS OPERATIONAL
- LOCATION OF LIGHTED RUNWAY CLOSURE "X"
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE TAXIWAY, IN PLACE FOR DURATION OF PHASE.
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO ALLOW TAXIWAY CROSSING
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE RUNWAY
- LOW LEVEL AIRFIELD BARRICADE AS REQUIRED TO CLOSE TAXIWAY, IN PLACE WHEN CONTRACTOR IS NOT PROVIDING TW CROSSING FOR AIRCRAFT. WHEN A CROSSING IS BEING USED, THESE BARRICADES WILL BE REMOVED AND THE CONTRACTOR MUST INSTALL GROUP 3 BARRICADES.

PRIMARY ITEMS OF WORK*

1. INSTALL BARRICADES AND LIGHTED XS - NIGHTLY.
2. PERFORM RUNWAY 9-27 GROOVING
3. APPLY SEAL COAT TO BLAST PAD
4. APPLY FINAL PAINT MARKING.
5. REMOVE BARRICADES AND LIGHTED XS - NIGHTLY.

*THIS LIST IS NOT EXHAUSTIVE NOR SEQUENTIAL; IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT AND CONTRACT DOCUMENTS TO PERFORM ALL REQUIRED WORK IN ITS APPROPRIATE SEQUENCE.

OPERATIONS

CONSTRUCTION IN THE WORK AREA SHOWN WILL REQUIRE THE CLOSURE OF RUNWAY 9-27, AND TAXIWAYS A1, A2, A3, A4, L AND P. RUNWAY 13-31 AND TAXIWAYS B, D, E, AND F WILL REMAIN OPEN. CONTRACTOR TO PROVIDE ONE TAXIWAY CROSSING THROUGH CONSTRUCTION AREA AT ALL TIMES. WORK WILL BE PERFORMED NIGHTLY, 10:00 PM TO 6:00 AM SUNDAY - THURSDAY. WORK TIMES ARE REFERENCED FROM START OF SHIFT.

CONTRACTOR TO COORDINATE BARRICADE AND LIGHTED X PLACEMENT WITH AIRPORT STAFF AND RESIDENT PROJECT REPRESENTATIVE. BARRICADE LOCATIONS ARE SCHEMATIC AND MAY BE ADJUSTED IN THE FIELD AS NECESSARY FOR THE COMPLETION OF THE WORK. CONTRACTOR TO REMOVE ALL BARRICADES AND LIGHTED XS UPON THE COMPLETION OF EACH NIGHT'S WORK.

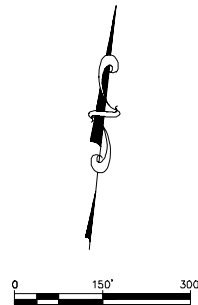
PHASE 6

LIMITS OF WORK

THE LIMITS OF THIS PHASE ARE GENERALLY ALONG RUNWAY 9-27 BETWEEN 85.5 FEET SOUTH OF TAXIWAY F, 85.5 FEET NORTH OF TAXIWAY A, AND WEST OF TAXIWAY B.

WORK SEQUENCING

WORK IN THIS AREA WILL BE PERFORMED SEQUENTIALLY AFTER THE COMPLETION OF PHASE 5.



MATCH LINE SEE THIS SHEET

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

DRAWN BY: DATE: 06/07/2024
ALB
DESIGNED BY: SCALE: AS NOTED
KAS
CHECKED BY: TFO
FIELD BOOK:

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

NO.	REVISIONS		DESCRIPTION
	BY	CHK'D	

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PHASING AND SAFETY PLAN - PHASE 6

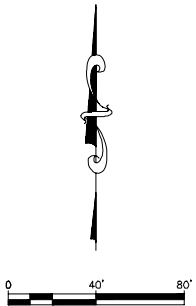
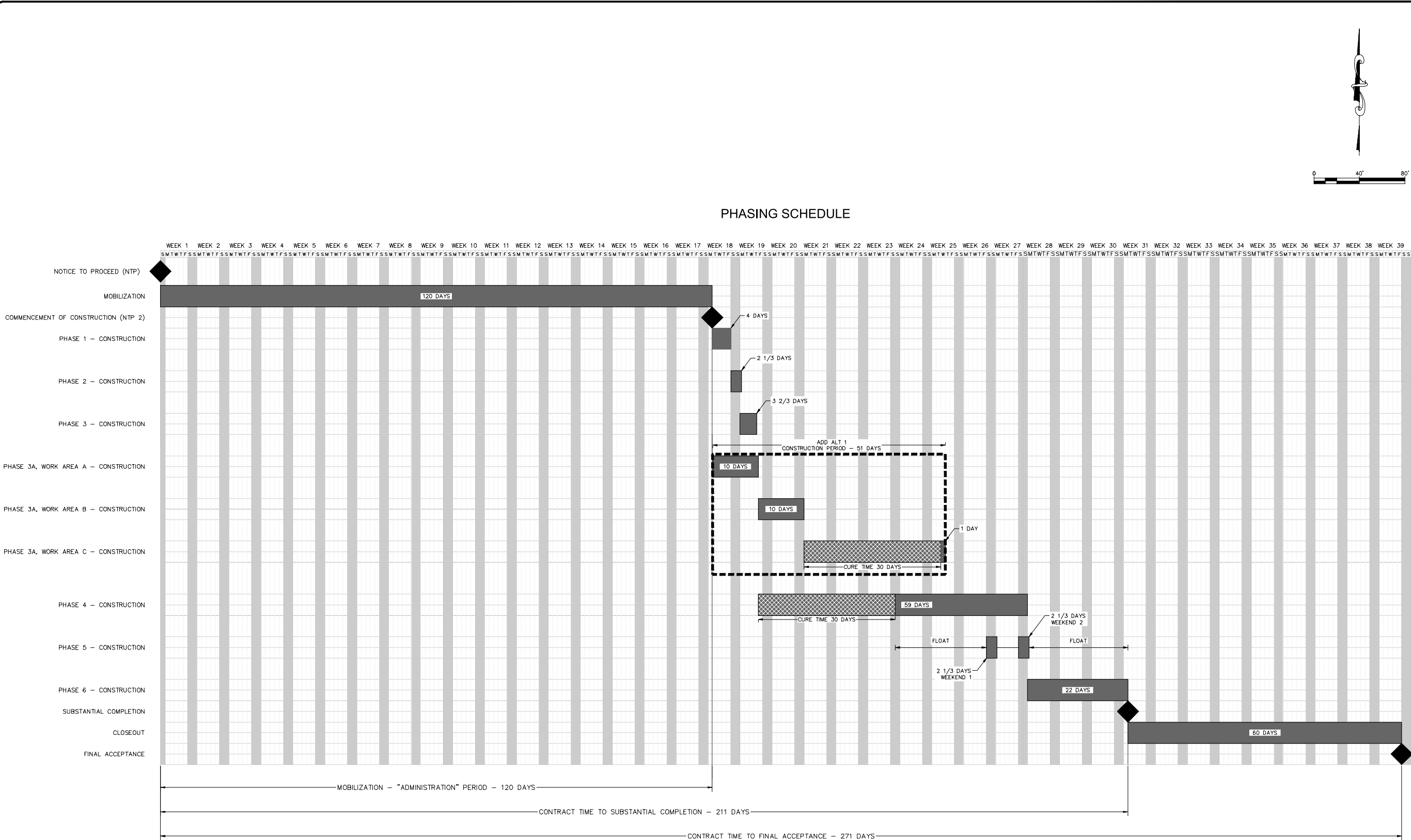
SHEET NO. OF
C106 110
TOTAL: 110
CAD FILE: 12764-C106-PHAS6
DRAWING FILE NO.



BID SET

Exhibit 1B

K:\FTL_AVATION\044693151_FXE_RW_9-27_REHAB\CADD\PLANSHEETS\12764-C107-PHAS.DWG



ENGINEER:
THOMAS F. O'DONNELL
REG. No. 65478
DATE

DRAWN BY:
ALB
DATE: 06/07/2024

DESIGNED BY:
KAS
SCALE: AS NOTED

CHECKED BY:
TFO

FIELD BOOK:

FILE: 981-840-0825
PAC

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHK'D

REVISIONS		DESCRIPTION	
NO.	DATE	BY	CHK'D

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
PHASING SCHEDULE

SHEET NO. C107 OF 110

TOTAL: 110

CAD FILE: 12764-C107-PHAS

PRINTED FILE NO.

Exhibit 1B

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

811

Know what's below.
Call before you dig.

Kimley-Horn

QUANTUM

OID SET



APPENDIX D

Construction Daily Safety Inspection Checklist

AIRPORT DAILY SAFETY SELF-INSPECTION CHECKLIST

DATE: _____

DAY: _____

☒ Satisfactory
☐ Unsatisfactory

Day Inspector/Time: _____ Night Inspector/Time: _____

FACILITIES	CONDITIONS	D	N	REMARKS	RESOLVED BY (Date/Initials)
§139.305 Paved areas	Pavement lips over 3"				
	Hole – 5" diam. 3" deep				
	Cracks/spalling/heaves				
	FOD: gravel/debris/sand				
	Rubber deposits				
	Ponding/edge dams				
	Drainage				
	Vegetative growth				
	Surface variations				
§139.307 Unpaved areas	Slope from edge				
	Full strength compaction				
	Holes, depressions				
	FOD, loose aggregate				
§139.309 Safety areas	Ruts/humps/erosion				
	Drainage/construction				
	Support equipment/aircraft				
	Frangible bases, grading				
	Unauthorized objects				
	Wildlife damage/evidence				
	Construction equipment/material				
§139.311 Marking	Clearly visible/standard				
	Runway markings Correct? Color?				
	Taxiway markings Correct? Color?				
	Holding position markings				
	Glass beads				
	Movement/non-movement area separation markings				

FACILITIES	CONDITIONS	D	N	REMARKS	RESOLVED BY (Date/Initials)
§139.311 Signs	Standard/meet sign plan location/position				
	Obscured/operable				
	Damaged/retroreflective				
	Faded, color				
	Tethers intact				
§139.311 Lighting	Obscured/dirty/operable				
	Consistent intensity				
	Damaged/missing				
	Faulty aim/adjustment				
	Runway lighting x				
	Precision runway lighting				
	Taxiway lighting				
	Pilot control lighting				
	Appropriate shielding				
139.313 Snow & ice control	Surface conditions				
	Snowbank clearances				
	Lights & signs obscured				
	NAVAIDs free and clear				
	Emergency ARFF access				
	Braking conditions				
§139.315; .317; .319 Aircraft rescue and fire fighting	Equipment/crew availability				
	Communications/alarms				
	Response routes affected				
§139.321 Handling and storing of hazardous substances and materials (Fueling Operations)	Fencing/gates/signs				
	Fuel marking/labeling				
	Fire extinguishers				
	Frayed wires				
	Fuel leaks/vegetation				
	Abraded hoses				
	Condition of mobile fuelers				
§139.331 Obstructions	Obstruction lights operable				
	Cranes/trees				
	Vegetation				

AIRPORT DAILY SAFETY SELF-INSPECTION CHECKLIST

DATE: _____ DAY: _____ ✓ Satisfactory ✗ Unsatisfactory

Day Inspector/Time: _____ Night Inspector/Time: _____

FACILITIES	CONDITIONS	D	N	REMARKS	RESOLVED BY (Initial & date)
Pavement Areas	Pavement lip over 3"				
	Hole - 5" diam. 3" deep				
	Cracks/spalling/heaves				
	FOD: gravel/debris/sand				
	Ponding/edge dams				
Safety Areas	Ruts/humps/erosion				
	Drainage/construction				
	Support equipment/aircraft				
	Frangible bases				
	Unauthorized objects				
Markings	Clearly visible/standard				
	Runway markings				
	Taxiway markings				
	Holding position markings				
	SPHPS/ETCL markings				
	Glass beads				
Signs	Standard/IAW Sign Plan				
	Obscured/inoperable				
	Damaged/retroreflective				
Lighting	Obscured/dirty/inoperable				
	Damaged/missing/aiming				
	Lighting systems inoperable				
	IAW FAA standards				
	Pilot Control Lighting				
NAVAIDS	Rotating beacon inoperable				
	Wind indicators				
	VASI/PAPI/REIL systems				
	FAA ILS system/ALS/VGSI				
Obstructions	Obstruction lights operable				
	New cranes not reported				
Snow & Ice	Surface conditions				
	Snowbank clearance				
	Signs obscured				
	NAVAID interference				
	NOTAMs current				
Public Protection	Fencing/gates/signs				
	Jet blast problems				
Wildlife Hazards	Wildlife present/location				
	Complying with WHMP				

Airfield Map/Airport Diagram on Reverse



Materials, Equipment, & Phasing Schedule Confirmation Form

Event 317 – Runway 9-27 Pavement Rehabilitation

Instructions: Bidder is to confirm their ability to meet each Requirement referenced below by answering each question and request for explanation within the Questions For Bidder's Response column. This Form is **not** intended to outline every requirement of the solicitation.

Item	Requirement	Questions For Bidder's Response
1.	The Contractor must own their own hot mix asphalt plants and be capable of producing material out of and delivering material to the site from two plants simultaneously.	Do you meet this requirement? <input type="checkbox"/> Yes <input type="checkbox"/> No Explain:
2.	The plants must be capable of continuously producing a minimum of 2,000 tons of P-401 and P-403 material in an 8-hour period.	Are your plants capable of meeting this requirement? <input type="checkbox"/> Yes <input type="checkbox"/> No Explain:
3.	The Contractor shall maintain stand-by equipment at the construction site for all construction work to be performed. The specific number and type of equipment shall be that which is necessary to complete the work planned for that work period should any piece of equipment break down. At a minimum, at least one milling machine, one paving machine, one roller, and one sweeper will be required on stand-by whenever the runway is being worked on.	Can you meet this requirement? <input type="checkbox"/> Yes <input type="checkbox"/> No Explain:
4.	The Contractor shall ensure arrangement for supply of an alternate source of P-401 and P-403 asphalt in case of breakdown of the asphalt production plant. This will include back-up plants, storage of a minimum quantity of material, as required by Items P-401 and P-403 of the Specifications, in storage bins at the start of each shift's work, as well as material in trucks.	Can you meet this requirement? <input type="checkbox"/> Yes <input type="checkbox"/> No Explain:
5.	Can you meet the Phasing Schedule in the Drawings (Sheet No. C107)?	Can you meet this requirement? <input type="checkbox"/> Yes <input type="checkbox"/> No

Company Name:

Please sign below (by signing or typing in your name) to confirm the answers provided above.

Authorized Signature:

Date:

CAM #24-0954

Exhibit 1B

Page 361 of 417

BID CONDITIONS
DISADVANTAGED BUSINESS ENTERPRISE OWNER

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

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

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

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

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

MBE's

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

WBE's

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

DBE's

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

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

If the contractor fails to meet the contract goal established in Paragraph 7 above, the following information must be submitted prior to contract award to assist the owner in determining whether or not the contractor made acceptable good faith efforts to meet the contract goal. This information (when applicable), as well as the DBE information, should be submitted as specified in Paragraph 9 above.

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

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

- a. Whether the contractor attended any pre-solicitation or pre-bid meetings that were scheduled by the recipient to inform DBE's of contracting and subcontracting opportunities;
- b. Whether the contractor advertised in general circulation, trade association, and minority-focus media concerning the subcontracting opportunities;
- c. Whether the contractor provided written notice to a reasonable number of specific DBE's that their interest in the contract was being solicited in sufficient time to allow the DBE's to participate effectively;

- d. Whether the contractor followed up initial solicitations of interest by contracting DBE's to determine with certainty whether the DBE's were interested;
- e. Whether the contractor selected portions of work to be performed by DBE's in order to increase the likelihood of meeting the DBE goal (including, where appropriate, breaking down contracts into economically feasible units to facilitate DBE participation);
- f. Whether the contractor provided interested DBE's with adequate information about the plans, specifications, and requirements of the contract;
- g. Whether the contractor negotiated in good faith with interested DBE'S, not rejecting DBE's as unqualified without sound reasons based on a thorough investigation of their capabilities;
- h. Whether the contractor made efforts to assist interested DBE's in obtaining bonding, lines or credit, or insurance required by the recipient or contractor, and
- i. Whether the contractor effectively used the services of available minority community organizations; minority contractor's groups; local and state Federal Minority Business Assistance Offices; and other organizations that provide assistance in the recruitment and placement of DBE'S.

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

10. Contractor Assurance. The bidder hereby assures that he will meet one of the following as appropriate:
- a. The DBE participation goal as established in Paragraph 7 above.
 - b. The DBE participation percentage as shown in Paragraph 9 which was submitted as a condition of contract award.

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

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

DISADVANTAGED BUSINESS ENTERPRISE (DBE) DEFINITIONS

A DBE means a for-profit small business concern.

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

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

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

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

Listed below are some agencies that certify DBEs.

DBE CERTIFYING AGENCIES

Division of Economic and Small Business Development

115 South Andrews Avenue, Annex 680

Fort Lauderdale, Florida 33301

Telephone: (954) 357-6400

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

Florida Department of Transportation

605 Suwannee Street, MS65

Tallahassee, Florida 32399-0450

Telephone: (850) 414-4747

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

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.

- 2) Types of iron, steel, manufactured products, or construction materials are not produced in the United States in sufficient and reasonably available quantities or of a satisfactory quality (a “nonavailability waiver”); or
- 3) The inclusion of iron, steel, manufactured products, or construction materials produced in the United States will increase the cost of the overall project by more than 25 percent (an “unreasonable cost waiver”).

BABA defines construction materials, items that are or consists primarily of non-ferrous metals, plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables), glass (including optic glass), lumber or drywall.

Items that consist of two or more of the aforementioned materials that have been combined together through a manufacturing process, and items that include at least one of the listed materials combined with a material that is not listed through a manufacturing process, should be treated as manufactured products, rather than as construction materials. For example, a plastic framed sliding window should be treated as a manufactured product while plate glass should be treated as a construction material.

The Buy America Preference requirements flow down from the Sponsor to first tier contractors, who are responsible for ensuring that lower tier contractors and subcontractors are also in compliance.

Note: The Buy American Preference does not apply to temporary equipment a contractor uses as a tool of its trade and which does not remain as part of the project.

Required Documentation

The FAA Buy American Requests. All applications (requests) for an FAA Buy American Preference Waiver includes, at minimum, a completed Content Percentage Worksheet and Final Assembly Questionnaire. Additional information may be requested from the applicant by the FAA. Airport Sponsors, consultants, construction contractors, or equipment manufacturers are responsible for completing and submitting waiver applications. The FAA is unable to make a determination on waiver requests with incomplete information. Sponsors must confirm with the bidder or offeror to assess the adequacy of the waiver request and associated information prior to forwarding a waiver request to the FAA for action. All FAA waivers forms are available from the FAA Buy American Requirements webpage.

Proprietary Confidentiality. Exemption 4 of the Freedom of Information Act protects "trade secrets and commercial or financial information obtained from a person [that is] privileged or confidential. Proprietary manufacturing and design information submitted to the Federal Aviation Administration for the purposes of receiving a Buy American Waiver shall not be disclosed outside the FAA. The FAA will provide a written notification to the Airport Sponsor, manufacturer(s), contractor(s) or supplier(s) when a waiver determination is complete.

Timing of Waiver Requests. Sponsors desiring a Type 2 waiver should submit their waiver request, with justification, *before* issuing a solicitation for bids or a request for proposal for a project.

The Sponsor must submit a Type 2, Type 3, or Type 4 waiver request *prior* to executing the contract. The FAA will generally not consider waiver requests after execution of the contract except where extraordinary and extenuating circumstances exist.

Guidelines for Contract Provisions for Obligated Sponsors and Airport Improvement Program Projects

Issued on May 24, 2023

The Buy American Notice of Determination (NOD) Process. The FAA Reauthorization Act of 2018 requires that all approved waivers must be posted to the FAA’s website and remain posted for public comment for 10 days, before becoming effective. All FAA waivers must complete the NOD process. Sponsors are encouraged to wait until approved waivers become effective before executing AIP projects.

Buy American Conformance Lists. The FAA Office of Airports maintains listings of projects and products that have received a waiver from the Buy American Preference requirements for project specific and nationwide use. Each of these conformance lists is available online at www.faa.gov/airports/aip/buy_american/. Products listed on the FAA Nationwide Buy American Conformance list do not require additional submittal of domestic content information. Nationwide waivers expire five years from the date issued, unless revoked earlier by the FAA.

Facility Waiver Requests. For construction of a facility, the Sponsor may submit the waiver request after bid opening, but prior to contract execution. Examples of facility construction include terminal buildings, terminal renovation, and snow removal equipment buildings.

Contract Types –

Construction and Equipment – The Sponsor must meet the Buy American Preference requirements of 49 USC § 50101 and BABA for all AIP funded projects that require materials that are or consists primarily of iron, steel or manufactured goods and construction materials.

Professional Services – Professional service agreements (PSAs) do not normally result in a deliverable that meets the definition of a manufactured product. However, the emergence of various project delivery methods has created situations where task deliverables under a PSA may include a manufactured product. If a PSA includes providing a manufactured good as a deliverable under the contract, the Sponsor must include the Buy American Preference provision in the agreement.

Property – Most land transactions do not involve acquiring a manufactured product. However, under certain circumstances, a property acquisition project could result in the installation of a manufactured product. For example, the installation of property fencing, gates, doors and locks, etc. represent manufactured products acquired under an AIP funded land project that must comply with Buy American Preferences.

Use of Provisions – No mandatory language provided. The following language is acceptable to the FAA and meets the intent of this requirement. If the Sponsor uses different language, the Sponsor’s revised language must fully comply with 49 USC § 50101 and BABA.

There are two types of FAA Buy American certifications. The Sponsor must incorporate the appropriate certifications of compliance with FAA Buy American Preference in the solicitation:

- **Construction Projects** involving the replacement, rehabilitation, reconstruction of airfield surfaces such as on runways, taxiways, taxilanes, aprons, roadways, parking lots, etc. – Insert the Certificate of compliance to FAA Buy American Preference based on Construction Projects.

Guidelines for Contract Provisions for Obligated Sponsors and Airport Improvement Program Projects

Issued on **May 24, 2023**

- **Equipment and Buildings Projects** involving and including the acquisition of equipment such as snow removal equipment, navigational aids, wind cones, and the construction of buildings such as hangars, terminal development, lighting vaults, aircraft rescue & firefighting buildings, etc. - Insert the Certificate of Compliance with FAA Buy American Preference Based on Equipment/Building Projects.

A4.3 MODEL SOLICITATION CLAUSES

A4.3.1 Certification of Compliance with FAA Buy American Preference Statement

FAA BUY AMERICAN PREFERENCE

The Contractor certifies that its bid/offer is in compliance with 49 USC § 50101, BABA and other related Made in America Laws,¹ U.S. statutes, guidance, and FAA policies, which provide that Federal funds may not be obligated unless all iron, steel and manufactured goods used in AIP funded projects are produced in the United States, unless the Federal Aviation Administration has issued a waiver for the product; the product is listed as an Excepted Article, Material Or Supply in Federal Acquisition Regulation subpart 25.108; or is included in the FAA Nationwide Buy American Waivers Issued list.

The bidder or offeror must complete and submit the certification of compliance with FAA’s Buy American Preference, BABA and Made in America laws included herein with their bid or offer. The Airport Sponsor/Owner will reject as nonresponsive any bid or offer that does not include a completed certification of compliance with FAA’s Buy American Preference and BABA.

The bidder or offeror certifies that all constructions materials, defined to mean an article, material, or supply other than an item of primarily iron or steel; a manufactured product; cement and cementitious materials; aggregates such as stone, sand, or gravel; or aggregate binding agents or additives that are or consist primarily of: non-ferrous metals; plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables); glass (including optic glass); lumber; or drywall used in the project are manufactured in the U.S.

¹ Per Executive Order 14005 “Made in America Laws” means all statutes, regulations, rules, and Executive Orders relating to federal financial assistance awards or federal procurement, including those that refer to “Buy America” or “Buy American,” that require, or provide a preference for, the purchase or acquisition of goods, products, or materials produced in the United States, including iron, steel, and manufactured products offered in the United States.

A4.3.2 Certification of Compliance with FAA Buy American Preference ☐ Construction Projects

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with its proposal. The bidder or offeror must indicate how it intends to comply with 49 USC § 50101, BABA and other related Made in America Laws, U.S. statutes, guidance, and FAA policies, 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 offeror hereby certifies that it will comply with 49 USC § 50101, BABA and other related U.S. statutes, guidance, and policies of the FAA by:
- a) Only installing iron, steel and manufactured products produced in the United States;
 - b) Only installing construction materials defined as: an article, material, or supply – other than an item of primarily iron or steel; a manufactured product; cement and cementitious materials; aggregates such as stone, sand, or gravel; or aggregate binding agents or additives that are or consist primarily of non-ferrous metals; plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables); glass (including optic glass); lumber or drywall that have been manufactured in the United States.
 - c) Installing manufactured products for which the Federal Aviation Administration (FAA) has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing; or
 - d) 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 offeror agrees:

- a) To provide to the Airport Sponsor or the FAA evidence that documents the source and origin of the iron, steel, and/or manufactured product.
 - b) To faithfully comply with providing U.S. domestic products.
 - c) To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.
 - d) Certify that all construction materials used in the project are manufactured in the U.S.
- ☐ The bidder or offeror hereby certifies it cannot comply with the 100 percent Buy American Preferences of 49 USC § 50101(a) but may qualify for a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:
- a) To submit to the Airport Sponsor or FAA within 15 calendar days of being selected as the responsive bidder, a formal waiver request and required documentation that supports the type of waiver being requested.
 - b) 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.
 - c) To faithfully comply with providing U.S. domestic products at or above the approved U.S. domestic content percentage as approved by the FAA.

- d) To furnish U.S. domestic product for any waiver request that the FAA rejects.
- e) To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

Required Documentation

Type 2 Waiver (Nonavailability) - The iron, steel, manufactured goods or construction materials or manufactured goods are not available in sufficient quantity or quality in the United States. The required documentation for the Nonavailability waiver is

- a) Completed Content Percentage Worksheet and Final Assembly Questionnaire
- b) Record of thorough market research, consideration where appropriate of qualifying alternate items, products, or materials including;
- c) A description of the market research activities and methods used to identify domestically manufactured items capable of satisfying the requirement, including the timing of the research and conclusions reached on the availability of sources.

Type 3 Waiver – The cost of components and subcomponents produced in the United States is more than 60 percent of the cost of all components and subcomponents of the “facility/project.” The required documentation for a Type 3 waiver is:

- a) Completed Content Percentage Worksheet and Final Assembly Questionnaire including;
- b) Listing of all manufactured products that are not comprised of 100 percent U.S. 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).
- c) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly and installation at project location.
- d) 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 (Unreasonable Costs) - Applying this provision for iron, steel, manufactured goods or construction materials would increase the cost of the overall project by more than 25 percent. The required documentation for this waiver is:

- a) A completed Content Percentage Worksheet and Final Assembly Questionnaire from
- b) At minimum two comparable equal bids and/or offers;
- c) Receipt or record that demonstrates that supplier scouting called for in Executive Order 14005, indicates that no domestic source exists for the project and/or component;
- d) Completed waiver applications for each comparable bid and/or offer.

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

A24 TAX DELINQUENCY AND FELONY CONVICTIONS

A24.1 SOURCE

Section 8113 of the Consolidated Appropriations Act, 2022 (Public Law 117-103) and similar provisions in subsequent appropriations acts.

DOT Order 4200.6 – Appropriations Act Requirements for Procurement and Non-Procurement Regarding Tax Delinquency and Felony Convictions

A24.2 APPLICABILITY

The Sponsor must ensure that no funding goes to any contractor who:

- Has been convicted of a Federal felony within the last 24 months; or
- Has any outstanding tax liability for which all judicial and administrative remedies have lapsed or been exhausted.

Contract Types – This provision applies to all contracts funded in whole or part with AIP.

Use of Provision – No mandatory text provided. The following language is acceptable to the FAA and meets the intent of this requirement. If the Sponsor uses different language, the Sponsor's language must fully satisfy the requirements of DOT Order 4200.6.

A24.3 MODEL CERTIFICATION CLAUSE

CERTIFICATION OF OFFEROR/BIDDER REGARDING TAX DELINQUENCY AND FELONY CONVICTIONS

The applicant must complete the following two certification statements. The applicant must indicate its current status as it relates to tax delinquency and felony conviction by inserting a checkmark (✓) in the space following the applicable response. The applicant agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification in all lower tier subcontracts.

Certifications

- 1) The applicant represents that it is (☐) is not (☐) a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.
- 2) The applicant represents that it is (☐) is not (☐) a corporation that was convicted of a criminal violation under any Federal law within the preceding 24 months.

Note

If an applicant responds in the affirmative to either of the above representations, the applicant is ineligible to receive an award unless the Sponsor has received notification from the agency suspension and debarment official (SDO) that the SDO has considered suspension or debarment and determined that further action is not required to protect the Government's interests. The applicant therefore must provide information to the owner about its tax liability or conviction to the Owner, who will then notify

the FAA Airports District Office, which will then notify the agency's SDO to facilitate completion of the required considerations before award decisions are made.

Term Definitions

Felony conviction: Felony conviction means a conviction within the preceding twenty four (24) months of a felony criminal violation under any Federal law and includes conviction of an offense defined in a section of the U.S. Code that specifically classifies the offense as a felony and conviction of an offense that is classified as a felony under 18 USC § 3559.

Tax Delinquency: A tax delinquency is any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

AFFIDAVIT OF COMPLIANCE WITH FOREIGN ENTITY LAWS
(Florida Statute- §287.138, 692.201, 692.202, 692.203, and 692.204)

The undersigned, on behalf of the entity listed below ("Entity"), hereby attests under penalty of perjury as follows:

1. Entity is not owned by the government of a foreign country of concern as defined in Section 287.138, Florida Statutes. (Source:§ 287.138(2)(a), Florida Statutes)
2. The government of a foreign country of concern does not have a controlling interest in Entity. (Source:§ 287.138(2)(b), Florida Statutes)
3. Entity is not organized under the laws of, and does not have a principal place of business in, a foreign country of concern. (Source: § 287.138(2)(c), Florida Statutes)
4. Entity is not owned or controlled by the government of a foreign country of concern, as defined in Section 692.201, Florida Statutes. (Source:§ 288.007(2), Florida Statutes)
5. Entity is not a partnership, association, corporation, organization, or other combination of persons organized under the laws of or having its principal place of business in a foreign country of concern, as defined in Section 692.201, Florida Statutes, or a subsidiary of such entity. (Source: § 288.007(2), Florida Statutes)
6. Entity is not a foreign principal, as defined in Section 692.201, Florida Statutes. (Source: § 692.202(5)(a)(I), Florida Statutes)
7. Entity is in compliance with all applicable requirements of Sections 692.202, 692.203, and 692.204, Florida Statutes.
8. **(Only applicable if purchasing real property)** Entity is not a foreign principal prohibited from purchasing the subject real property. Entity is either (a) not a person or entity described in Section 692.204(1)(a), Florida Statutes, or (b) authorized under Section 692.204(2), Florida Statutes, to purchase the subject property. Entity is in compliance with the requirements of Section 692.204, Florida Statutes. (Source:§§ 692.203(6)(a), 692.204(6)(a), Florida Statutes)

The undersigned is authorized to execute this affidavit on behalf of Entity.

Name: _____ Title: _____ Entity: _____

Signature: _____ Date: _____

NOTARY PUBLIC ACKNOWLEDGEMENT SECTION

STATE OF _____

COUTY OF _____

The foregoing instrument was acknowledged before me, by means of ☐ physical presence or ☐ online notarization, this ____ day of _____ 20 __, by _____, as _____ for _____, who is personally known to me or who has produced _____ as identification.

Notary Public Signature: _____

(Notary Seal)

Print Name: _____

My commission expires: _____

CITY OF FORT LAUDERDALE BID/PROPOSAL CERTIFICATION

Please Note: It is the sole responsibility of the bidder/proposer to ensure that their response is submitted electronically through the [City's on-line strategic sourcing platform](#) prior to the bid opening date and time listed. Paper bid submittals will not be accepted. 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) _____ EIN (Optional): _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone No.: _____ FAX No.: _____ Email: _____

Delivery: Calendar days after receipt of Purchase Order (**section 1.02 of General Conditions**): _____

Total Bid Discount (**section 1.05 of General Conditions**): _____

Check box if your firm qualifies for DBE (**section 1.09 of General Conditions**): ☐

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

Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

VARIANCES: If you take exception or have variances to any term, condition, specification, scope of service, or requirement in this competitive solicitation you must specify such exception or variance in the space provided below or reference in the space provided below all variances contained on other pages within your response. Additional pages may be attached if necessary. No exceptions or variances will be deemed to be part of the response 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.

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a response, that in no event shall the City's liability for respondent'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's protest ordinance contained in this competitive solicitation.

Submitted by:

Name (printed)

Signature

Date

Title

**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. 2-17(a)(i)(ii), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

- A. Contractors doing business with the City shall not discriminate against their employees based on the employee's race, color, religion, gender (including identity or expression), marital status, sexual orientation, national origin, age, disability, or any other protected classification as defined by applicable law.

Contracts. Every Contract exceeding \$100,000, or otherwise exempt from this section shall contain language that obligates the Contractor to comply with the applicable provisions of this section.

The Contract shall include provisions for the following:

- (i) The Contractor certifies and represents that it will comply with this section during the entire term of the contract.
- (ii) The failure of the Contractor to comply with this section shall be deemed to be a material breach of the contract, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.

Authorized Signature

Print Name and Title

Date

Solicitation/Bid /Contract No: _____

Project Description:

Contractor/Proposer/Bidder acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of,

- A. all persons employed by Contractor/Proposer/Bidder to perform employment duties within Florida during the term of the Contract, and,
- B. all persons (including subcontractors/vendors) assigned by Contractor/Proposer/Bidder to perform work pursuant to the Contract.

The Contractor/Proposer/Bidder acknowledges and agrees that use of the U.S. Department of Homeland Security's E-Verify System during the term of the Contract is a condition of the Contract.

Contractor/Proposer/ Bidder Company Name: _____

Authorized Company Person's Signature: _____

Authorized Company Person's Title: _____

Date: _____

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.

Authorized Signature

Title

Name (Printed)

Date

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?

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?

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

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

The contractor shall have previous construction experience in the State of Florida with projects of similar scope and scale (or larger) as specified in Section 8, Special Conditions. Complete this form in its entirety. **Note: Do not include proposed team members or parent/subsidiary companies as references in your submittal.**

PRIME BIDDER'S NAME: _____

CLIENT NO. 1 – Name of firm to be contacted: _____

Address: _____

Contact Person: _____

Phone No: _____

Contact E-Mail Address: _____

Project Performance Period: _____ to _____
Dates should be in mm/yy format

Project Name: _____

Location of Project: _____

Description of the overall scope: _____

Description of work that was self-performed by Bidder: _____

CLIENT NO. 2 – Name of firm to be contacted: _____

Address: _____

Contact Person: _____

Phone No: _____

Contact E-Mail Address: _____

Project Performance Period: _____ to _____
Dates should be in mm/yy format

Project Name: _____

Location of Project: _____

Description of the overall scope: _____

Description of work that was self-performed by Bidder: _____

CLIENT NO. 3 – Name of firm to be contacted: _____

Address: _____

Contact Person: _____

Phone No: _____

Contact E-Mail Address: _____

Project Performance Period: _____ to _____
Dates should be in mm/yy format

Project Name: _____

Location of Project: _____

Description of the overall scope: _____

Description of work that was self-performed by Bidder: _____

Question and Answer

Company: 10

Event #: 317-1

Event Name: Runway 9-27
Pavement
Rehabilitation

Supplier: 2

Supplier Name: Caribbean Technical Services, Inc.

Supplier Contact: 1

Supplier Contact Name: Edwin Rosario

Date Received: 06/22/2024 08:42:08 PM

Date Answered: 06/24/2024 11:33:50 AM

Question: What is the engineer's estimate for this project?

Answer: The cost estimate for this project is \$9,996,390.00.

Question and Answer

Company: 10	Event #: 317-1	Event Name: Runway 9-27 Pavement Rehabilitation
Supplier: 2	Supplier Name: Caribbean Technical Services, Inc.	
Supplier Contact: 1	Supplier Contact Name: Edwin Rosario	
Date Received: 06/22/2024 08:45:36 PM		
Date Answered: 06/24/2024 11:31:17 AM		
Question: Looking at the electrical bid items, all the items show a Lump Sum unit of measure. Please clarify if this project is unit price based or lump sum.		
Answer: Please refer to Addendum 1.		

Question and Answer

Company: 10

Event #: 317-1

Event Name: Runway 9-27
Pavement
Rehabilitation

Supplier: 2

Supplier Name: Caribbean Technical Services, Inc.

Supplier Contact: 1

Supplier Contact Name: Edwin Rosario

Date Received: 06/24/2024 04:00:53 PM

Date Answered: 06/24/2024 04:26:00 PM

Question: Is the bid form available in excel?

Answer: No. The Special Conditions, Section 3 - Submission of Bid, says (in part): "It is the sole responsibility of the Contractor to ensure that its bid is submitted electronically through the City's on-line strategic sourcing platform ..."

Question and Answer

Company: 10

Event #: 317-1

Event Name: Runway 9-27
Pavement
Rehabilitation

Supplier: 2

Supplier Name: Caribbean Technical Services, Inc.

Supplier Contact: 1

Supplier Contact Name: Edwin Rosario

Date Received: 06/25/2024 08:56:09 AM

Date Answered: 06/27/2024 11:49:10 AM

Question: Given that the project is located in Broward County, please clarify why the prevailing wages for Miami Dade and Palm Beach are included in the specifications package.

Answer: Prevailing wages are regional.

Question and Answer

Company: 10

Event #: 317-2

Event Name: Runway 9-27
Pavement
Rehabilitation

Supplier: 3417

Supplier Name: COMMUNITY ASPHALT CORP

Supplier Contact: 1

Supplier Contact Name: TINA MARIE PEREIRA

Date Received: 07/02/2024 02:28:26 PM

Date Answered: 07/08/2024 12:04:22 PM

Question: Please consider moving the Q&A deadline a few days to allow the review of voluminous bid documents.

Answer: Please refer to Addendum No. 2.

Question and Answer

Company: 10

Event #: 317-2

Event Name: Runway 9-27
Pavement
Rehabilitation

Supplier: 3417

Supplier Name: COMMUNITY ASPHALT CORP

Supplier Contact: 1

Supplier Contact Name: TINA MARIE PEREIRA

Date Received: 07/02/2024 02:32:05 PM

Date Answered: 07/08/2024 12:07:47 PM

Question: Please share the PowerPoint presentation slides shown at the prebid.

Answer: The City does not have a copy of the PowerPoint presentation shown at the pre-bid meeting. That presentation belongs to Kimley-Horn and Associates, Inc. and is not part of the City's bid documents.

Question and Answer

Company: 10

Event #: 317-2

Event Name: Runway 9-27
Pavement
Rehabilitation

Supplier: 3417

Supplier Name: COMMUNITY ASPHALT CORP

Supplier Contact: 1

Supplier Contact Name: TINA MARIE PEREIRA

Date Received: 07/03/2024 04:04:46 PM

Date Answered: 07/08/2024 12:08:28 PM

Question: What permits will the contractor be required to obtain for this project?

Answer: Permits are not required for the Contractor for this project.

Question and Answer

Company: 10

Event #: 317-3

Event Name: Runway 9-27
Pavement
Rehabilitation

Supplier: 3384

Supplier Name: Cardinal/International Grooving and Grinding LLC

Supplier Contact: 1

Supplier Contact Name: Alexandra Smith

Date Received: 07/09/2024 09:14:39 AM

Date Answered: 07/16/2024 04:20:42 PM

Question: Page SC-7 of the specs refers to the grooving in phases 4a & 4b; pages LD-2 & 3 refer to the grooving phases 4 and 5; the plans refer to the grooving in phases 4, 5 & 6....can you please clarify the correct phasing sequence for the runway grooving?

Answer: Grooving will be performed in Phases 4, 5, and 6.

Question and Answer

Company: 10

Event #: 317-3

Event Name: Runway 9-27
Pavement
Rehabilitation

Supplier: 3384

Supplier Name: Cardinal/International Grooving and Grinding LLC

Supplier Contact: 1

Supplier Contact Name: Alexandra Smith

Date Received: 07/09/2024 09:15:41 AM

Date Answered: 07/16/2024 04:21:13 PM

Question: Night work hours for the grooving appear to be 10 PM to 6 AM, 5 nights per week. Can the grooving be performed 7 nights per week?

Answer: Currently, the plan calls for 5 days per week, but during construction we may request FXE to work 7 days a week. The approval to work 7 days depends on FXE's operation and available resources.

Question and Answer

Company: 10

Event #: 317-3

Event Name: Runway 9-27
Pavement
Rehabilitation

Supplier: 2767

Supplier Name: Ranger Construction Industries, Inc.

Supplier Contact: 2

Supplier Contact Name: Steve Skubal

Date Received: 07/09/2024 10:06:28 AM

Date Answered: 07/16/2024 04:44:11 PM

Question: Part 1) Does the runway rental fee apply to the continuous closures for milling, paving, lighting, and pavement markings? Specifically, does the cost structure of \$4,375 for the first 15 minutes and \$25 for each additional minute

Answer: The rental fee is applicable for each phase only. The example rental fee for Phase 4 will not be added to Phase 3 if the contractor could not finish Phase 3 on schedule since the contractor will not be able to move to the next phase without completing the current phase.

Question and Answer

Company: 10

Event #: 317-3

Event Name: Runway 9-27
Pavement
Rehabilitation

Supplier: 2767

Supplier Name: Ranger Construction Industries, Inc.

Supplier Contact: 2

Supplier Contact Name: Steve Skubal

Date Received: 07/09/2024 10:08:30 AM

Date Answered: 07/16/2024 04:44:23 PM

Question: Part 2) minute (equating to \$40,000 per 24 hours) apply in addition to the \$35,000 or \$45,000 liquidated damages?

Alternatively, is the runway rental fee intended for the nightly shutdowns for grooving and final pavement markings?"

Answer: The rental fee is applicable for each phase only. The example rental fee for Phase 4 will not be added to Phase 3 if the contractor could not finish Phase 3 on schedule since the contractor will not be able to move to the next phase without completing the current phase.

Question and Answer

Company: 10

Event #: 317-3

Event Name: Runway 9-27
Pavement
Rehabilitation

Supplier: 3108

Supplier Name: ConstructConnect

Supplier Contact: 1

Supplier Contact Name: Ashley Welker

Date Received: 07/10/2024 10:58:57 AM

Date Answered: 07/12/2024 09:54:10 AM

Question: Will the list of attendees to the pre-bid meeting that took place on 07/02/2024 be posted?

Answer: No; however, those who would like a copy may submit a public records request to:
prcontract@fortlauderdale.gov

Question and Answer

Company: 10

Event #: 317-3

Event Name: Runway 9-27
Pavement
Rehabilitation

Supplier: 3193

Supplier Name: General Asphalt Co., LLC

Supplier Contact: 1

Supplier Contact Name: Daniel Sanchez

Date Received: 07/10/2024 11:31:23 AM

Date Answered: 07/16/2024 04:22:26 PM

Question: Please define "Profile Milling" as it relates to this project.

Answer: Profile Milling is the thickness to be milled from the proposed finished grade.

Question and Answer

Company: 10

Event #: 317-3

Event Name: Runway 9-27
Pavement
Rehabilitation

Supplier: 3193

Supplier Name: General Asphalt Co., LLC

Supplier Contact: 1

Supplier Contact Name: Daniel Sanchez

Date Received: 07/10/2024 12:33:27 PM

Date Answered: 07/16/2024 04:23:00 PM

Question: Is the DBE percentage a requirement for award or is it a goal?

Answer: The DBE race-conscious goal is 7.70%.

ADDENDUM NO. 1

ITB Event 317 - Runway 9-27 Pavement Rehabilitation

June 24, 2024

This addendum is issued to make the following change(s):

1. Line-Item Unit of Measure (UOM): The UOM was corrected for the following:

- a.** Lines 6-35 (for Base Bid - Items 6-35)
- b.** Lines 41-70 (for Alternate - Items 6-35)

All other terms, conditions, and specifications remain unchanged.

Dylan Kenedy
Senior Procurement Specialist

Company Name: _____

Bidder's Signature: _____

Date: _____

ADDENDUM NO. 2

ITB Event 317 - Runway 9-27 Pavement Rehabilitation

July 8, 2024

This addendum is issued to make the following change(s):

- 1. Q&A Close Date:** Changed from 07/05/2024 to **07/10/2024** at 5:00 pm (EST)

All other terms, conditions, and specifications remain unchanged.

Dylan Kenedy
Senior Procurement Specialist

Company Name: _____

Bidder's Signature: _____

Date: _____



ADDENDUM NO. 3

ITB Event 317 - Runway 9-27 Pavement Rehabilitation

July 16, 2024

This addendum is issued to make the following change(s):

1. The following documents hereby replace the existing documents in their entirety:
 - a. E002 – Electrical Legend and Notes
 - b. E101 – Electrical Demolition Plan
 - c. E101A - Electrical Demolition Plan – Add Alt 1
 - d. E102 – Electrical Demolition Plan
 - e. E301 – Electrical Circuitry Plan
 - f. E301A – Electrical Circuitry Plan – Add Alt 1
 - g. E302 – Electrical Circuitry Plan
 - h. E303 – Electrical Circuitry Plan
 - i. E304 – Electrical Circuitry Plan
 - j. E305 – Electrical Circuitry Plan
 - k. E307 – Electrical Circuitry Plan
2. The following line item quantities are hereby revised as follows:

Line Item	Line Item Description	Existing Quantity	Unit	Revised Quantity
20	NO. 8 L-824 CONDUCTOR INSTALLED IN NEW AND EXISTING CONDUIT (L-108-5.6)	31,000	LF	36,000
22	INTERCEPT EXISTING CONDUIT SYSTEM (L-110-5.3)	6	EA	8
24	ADJUST ELEVATION OF EXISTING BASE CAN (L-115-5.2)	40	EA	8
25	REMOVE EXISTING JUNCTION CAN/LIGHT BASE IN EXISTING PAVEMENT (L-115-5.3)	30	EA	20
26	L-861T(L) LED TAXIWAY ELEVATED EDGE LIGHT ON EXISTING CAN (L-125-5.1)	55	EA	50
27	L-862(L) LED RUNWAY ELEVATED EDGE LIGHT ON EXISTING CAN (L-125-5.2)	63	EA	66
32	RELOCATE L-858 GUIDANCE SIGN WITH NEW BASE IN EXISTING	4	EA	6



City of Fort Lauderdale Procurement Services Division
101 NE 3rd Avenue, Suite 1650, Fort Lauderdale, Florida 33301
954-828-5933 Fax 954-828-5576
purchase@fortlauderdale.gov

	PAVEMENT(L-125-5.9)			
33	REMOVAL OF EXISTING GUIDANCE SIGN/ABANDONED SIGN PAD (L-125- 5.10)	16	EA	18
65	L-861T(L) LED TAXIWAY ELEVATED LIGHT AND CAN IN EARTH(L-125-5.7)	7	EA	6

All other terms, conditions, and specifications remain unchanged.

Dylan Kenedy
Senior Procurement Specialist

Company Name: _____

Bidder's Signature: _____

Date: _____

C:\USERS\ACHAM\QEE DROPBOX\QUANTUM PROJECTS\KHA KIMLEY HORN\KHA2401 FxE RW 9-27 REHAB\DWG\ADDENDUM 1\12764-E002-LEGD.DWG

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 PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS.
	NEW L-861T(L), LED, MITL, ELEVATED T/W EDGE LIGHT MOUNTED ON AN EXISTING L-867 BASE CAN WITH A NEW EXTENSION RING IN EXISTING 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 NEW TELESCOPIC L-867 BASE CAN INSTALLED IN EXISTING PAVEMENT WITH PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS.
	EXISTING MALS ELEVATED THRESHOLD LIGHT MOUNTED ON AN EXISTING L-867 BASE CAN WITH A NEW L-867 EXTENSION RING TO MATCH PROPOSED GRADES.
	NEW L-862(L),LED LAMP, HIRL, ELEVATED RUNWAY EDGE LIGHT MOUNTED ON A EXISTING L-867 BASE CAN WITH A NEW EXTENSION RING NEW BASE PLATE AND PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS. W Y = WHITE/YELLOW LENS W W = WHITE/WHITE R G - RED/GREEN
	NEW L-850C, LED, STYLE 3, BI-DIRECTIONAL, HIRL FLUSH MOUNT RUNWAY EDGE LIGHT MOUNTED ON AN EXISTING 2 PIECE L-868 BASE CAN. CONTRACTOR SHALL PROVIDE AND INSTALL EXTENSION RINGS, SPACERS (W/DAM RING) WITH PROPERLY SIZED L-830 TRANSFORMER AND L-823 CONNECTORS. W G = WHITE/GREEN LENS W Y = WHITE /YELLOW
	EXISTING ELEVATED RUNWAY EDGE LIGHT MOUNTED ON A EXISTING L-867 BASE CAN WITH A NEW EXTENSION RING AND RECONNECT CIRCUIT. W W = WHITE/WHITE R G - RED/GREEN W Y= WHITE YELLOW
	EXISTING FLUSH MOUNT RUNWAY EDGE LIGHT MOUNTED ON AN EXISTING 2 PIECE L-868 BASE CAN. CONTRACTOR SHALL PROVIDE AND INSTALL NEW TOP SECTION, SPACERS (W/DAM RING) AND RECONNECT CIRCUIT. W G = WHITE/GREEN LENS W Y = WHITE /YELLOW
	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 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.
	RELOCATED L-858(L), LED, SIZE 1 AIRFIELD GUIDANCE SIGN ON NEW CONCRETE BASE INSTALLED IN EARTH. REFER TO LIGHTED SIGN SCHEDULES FOR ADDITIONAL INFORMATION. # = SIGN NUMBER
	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" - 1 INDICATES NUMBER OF CONDUITS, 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
	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
	EXISTING ELEVATED TAXIWAY EDGE LIGHT
	EXISTING RUNWAY EDGE LIGHT
	EXISTING INPAVEMENT FLUSH MOUNTED RUNWAY GUARD LIGHT
	EXISTING ELEVATED RUNWAY GUARD LIGHT
	EXISTING AIRFIELD GUIDANCE SIGN # = SIGN NUMBER
	EXISTING FAA MALS THRESHOLD LIGHT
	EXISTING JUNCTION CAN
	EXISTING WINDCONE
	EXISTING L-867 JUNCTION CAN PLAZA.
	EXISTING CONDUIT SYSTEM
	EXISTING AIRFIELD LIGHTING DUCTBANK
	EXISTING FAA CABLE/CONDUIT
	EXISTING FPL CABLE/CONDUIT
	EXISTING COMMUNICATIONS CONDUIT/DUCTBANK
	TAXIWAY SAFETY AREA
	RUNWAY SAFETY AREA
	TAXIWAY OBJECT FREE AREA
	ADJUST ELEVATION OF EXISTING JUNCTION CAN

NOTE: SYMBOL SIZES ARE NOT SHOWN TO SCALE FOR CLARITY ON THE PLAN SHEETS.

DEMOLITION NOTES

- CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF THE EXISTING ELEVATED EDGE LIGHT, CONDUCTORS AND TRANSFORMER THE EXISTING BASE CAN SHALL REMAIN. CONTRACTOR SHALL DRILL AND TAP EXISTING BOLT HOLES TO REMOVE BROKEN BOLTS AND PROVIDE AND INSTALL A TEMPORARY COVER ON EXISTING BASE CAN DURING CONSTRUCTION. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. THE LINE ITEM COST SHALL INCLUDE DEWATERING EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLE AND SHALL BE INCLUSIVE OF THE INSTALLATION OF THE NEW FIXTURE ON ADJUSTED BASE CAN.
- CONTRACTOR SHALL DISCONNECT THE EXISTING CIRCUITS AND REMOVE CONDUCTORS BACK TO THE LAST UNAFFECTED LOCATION AND SHALL REMOVE AND DISPOSE OF THE EXISTING CONDUCTORS, TRANSFORMER AND BASE CAN. CONTRACTOR SHALL BACKFILL AND RESTORE SOD ACCORDINGLY. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATION AT ALL TIMES DURING CONSTRUCTION. SEE THE PHASING PLANS FOR SEQUENCING OF WORK. THE DEWATERING OF THE EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES SHALL BE INCLUDED IN THE LINE ITEM COST FOR REMOVAL OF A BASE CAN.
- CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF THE EXISTING FLUSH EDGE LIGHT, CORE AND REMOVE TOP SECTION, CONDUCTORS AND TRANSFORMER THE EXISTING BASE CAN SHALL REMAIN. CONTRACTOR SHALL DRILL AND TAP EXISTING BOLT HOLES TO REMOVE BROKEN BOLTS. PROVIDE AND INSTALL A TEMPORARY COVER ON EXISTING BASE CAN DURING CONSTRUCTION. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. THE LINE ITEM COST SHALL INCLUDE DEWATERING EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES.
- CONTRACTOR SHALL DISCONNECT, REMOVE AND STORE THE EXISTING FAA MALS THRESHOLD LIGHT AND PROTECT THE EXISTING CONDUCTORS AND TRANSFORMER THE EXISTING BASE CAN SHALL REMAIN. CONTRACTOR SHALL DRILL AND TAP EXISTING BOLT HOLES TO REMOVE BROKEN BOLTS AND SHALL PROVIDE AND INSTALL A TEMPORARY COVER ON EXISTING BASE CAN DURING CONSTRUCTION. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. THE LINE ITEM COST SHALL INCLUDE DEWATERING EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES.
- CONTRACTOR SHALL REMOVE THE EXISTING EDGE LIGHT/JUNCTION CAN FROM THE EXISTING PAVEMENT, DISCONNECT THE EXISTING CIRCUITS AND REMOVE CONDUCTORS BACK TO THE LAST UNAFFECTED LOCATION. CORE DRILL, REMOVE AND DISPOSE OF THE EXISTING CONDUCTORS, TRANSFORMER, BASE CAN AND FIXTURE. BACKFILL WITH CONCRETE AFTER REMOVAL OF BASE CAN. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATION 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 MANHOLE.
- CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF THE EXISTING ELEVATED EDGE LIGHT, CONDUCTORS AND TRANSFORMER THE EXISTING BASE CAN SHALL REMAIN. CONTRACTOR SHALL DRILL AND TAP EXISTING BOLT HOLES TO REMOVE BROKEN BOLTS AND PROVIDE AND INSTALL A COVER ON EXISTING BASE CAN AND ABANDON IN PLACE. PROVIDE, MAINTAIN AND INSTALL TEMPORARY CONDUITS AND CONDUCTOR SYSTEMS TO MAINTAIN CIRCUITS BEYOND WORK AREA IN OPERATIONAL CONDITION AT ALL TIMES DURING CONSTRUCTION. THE LINE ITEM COST SHALL INCLUDE DEWATERING EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLE.
- 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 CONDUCTORS TO REMOVE THE SIGN FROM THE CIRCUIT. REMOVE AND DISPOSE OF THE EXISTING CONCRETE BASE, TRANSFORMER, CONDUITS AND CABLES AND RELOCATE SIGN TO THE NEW LOCATION AS SHOWN ON PLANS. BACKFILL AND RESTORE SOD 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.
- CONTRACTOR SHALL SURVEY LOCATION OF EXISTING BASE CAN AND PROTECT DURING THE MILLING AND PAVING OPERATION. CONTRACTOR SHALL CORE DRILL PAVEMENT OVERLAY AND PROVIDE AND INSTALL L-867 EXTENSION RING ON EXISTING BASE CAN IN PAVED SHOULDER.
- CONTRACTOR SHALL SAWCUT/CORE AND REMOVE EXISTING **ABANDONED SIGN PAD FROM SHOULDER PAVEMENT** AND BACKFILL WITH CONCRETE ACCORDINGLY.

- CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF EXISTING CIRCUIT CONDUCTORS. THE COST SHALL INCLUDE DEWATERING EXISTING CONDUITS, DUCTBANKS, BASE CANS AND MANHOLES AND SHALL BE INCLUSIVE TO THE LINE ITEM FOR CONDUCTOR INSTALLATION.

INSTALLATION NOTES:

- CONTRACTOR SHALL HAND EXCAVATE, LOCATE AND INTERCEPT EXISTING CONDUIT SYSTEM AND EXTEND 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.
- 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.
- 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.

NOTE: CONTRACTOR SHALL PERFORM ALL ONSITE FIELD MEASUREMENTS FOR SPACER RINGS, TOP SECTIONS AND EXTENSION RINGS DURING THE PHASE M (MOBILIZATION). ALL ELECTRICAL ITEMS AND COMPONENTS SHALL BE INVENTORIED, STAGED AND STORED ONSITE AS PER SHEET C101, PRIMARY ITEMS OF WORK NOTE NO. 9. ALL COST TO PERFORM THESE FIELD MEASUREMENTS SHALL BE INCLUSIVE TO THE APPLICABLE PAY ITEMS ASSOCIATED WITH THIS SCOPE OF WORK.

CIRCUIT ID:	TYPE OF CABLE	CABLE JACKET COLOR	CABLE TAPE COLOR
9W = RUNWAY 9-27 WEST CIRCUIT	#8, L-824, 5KV CABLE	BLACK	RED
9E = RUNWAY 9-27 EAST CIRCUIT	#8, L-824, 5KV CABLE	BLACK	RED
A = TAXIWAY ALPHA CIRCUIT	#8, L-824, 5KV CABLE	BLACK	PINK

NOTE: PROVIDE AND INSTALL COLORED PHASE TAPE (3M ELECTRICAL VINYL) ON CABLES LOCATED IN EACH BASE CAN/ JUNCTION CAN/ MANHOLE. COLOR SHALL BE AS NOTED IN THE SCHEDULE ABOVE (CABLE ID COLOR). PROVIDE 1/2" WIDE TAPE WITH A MINIMUM OF 4 LAPS. THERE SHALL BE A MINIMUM OF ONE COLORED ID TAPE PER CABLE WHEN NO CONNECTOR KITS ARE PRESENT. WHEN CONNECTOR KITS ARE PRESENT, THERE SHALL BE ONE COLORED ID TAPE ON EACH CABLE END.



BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL LEGEND AND NOTES

SHEET NO.	OF
E002	
TOTAL:	110
CAD FILE:	12764-E002-LEGD
DRAWING FILE NO.	

ENGINEER:	AMY CHAMPAGNE-BAKER
REG. NO:	73735
DATE:	

DRAWN BY:	DATE:	6/7/24
MRB	DESIGNED BY:	SCALE:
ALC	AS NOTED	
CHECKED BY:	JWK	
FIELD BOOK:		

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

REVISIONS	NO.	DATE	BY	CHKD	DESCRIPTION
	1	7/12/24	JWK	ALC	ADDENDUM NO.1

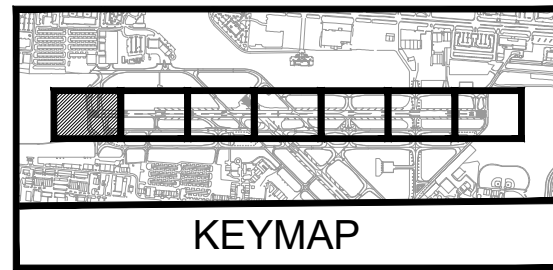
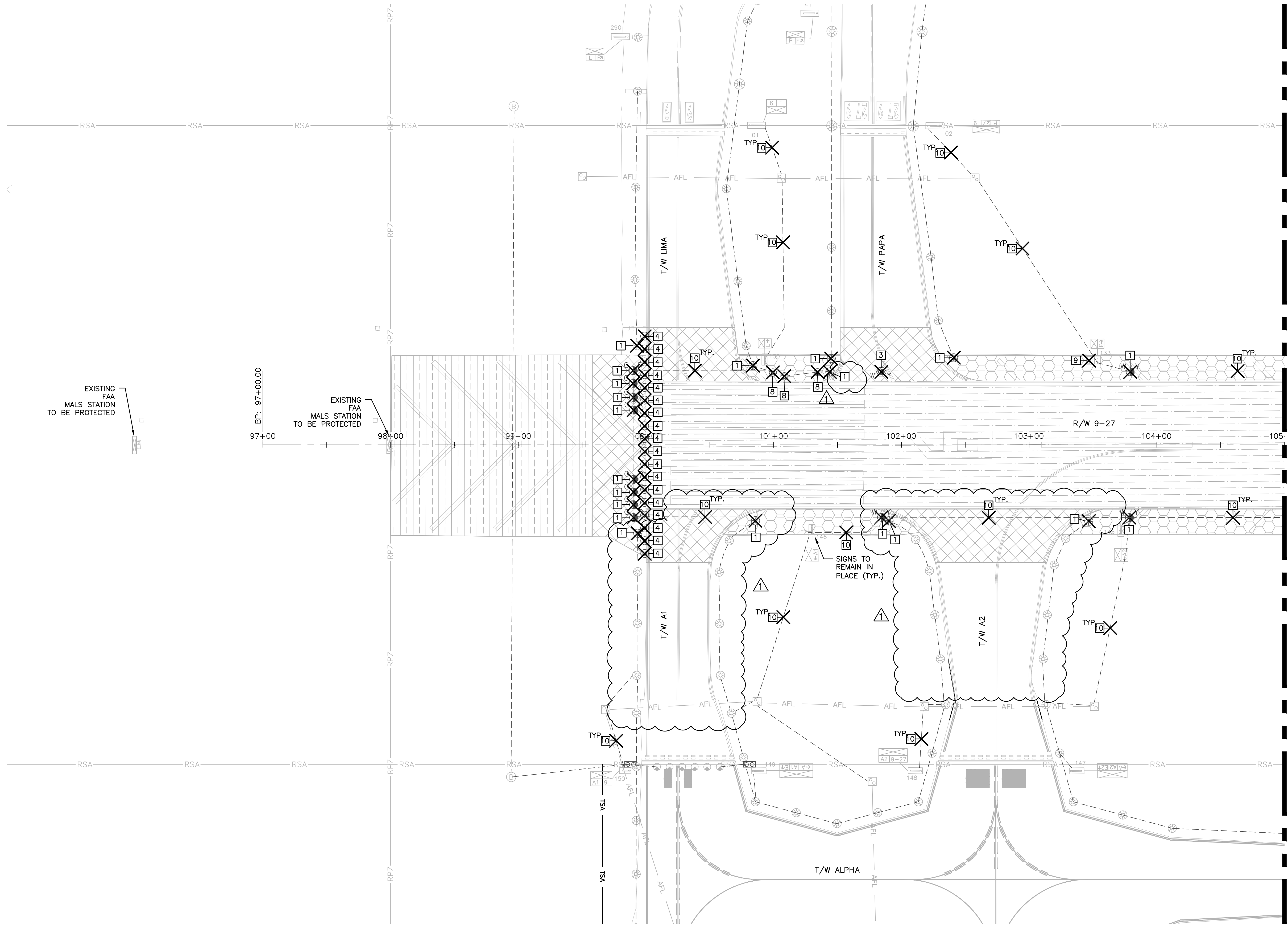
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CIVIL HATCH LEGEND

- CONSTRUCT RUNWAY OVERLAY
- CONSTRUCT RUNWAY SHOULDER OVERLAY TRANSITION
- CONSTRUCT RUNWAY BLAST PAD OVERLAY
- CONSTRUCT TAXIWAY OVERLAY
- CONSTRUCT OVERLAY TRANSITION
- CONSTRUCT TAXIWAY STABILIZED SUBGRADE (P-154) SHOULDER. SOD 20' ADJACENT TO PAVEMENT EDGE.

NOTES:

- SEE SHEET E002 FOR ELECTRICAL DEMOLITION NOTES DESCRIPTIONS.



MATCH LINE SHEET E101

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.

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500 PETER ROAD, SUITE 200, FORT LAUDERDALE, FL 33304
PHONE: 954-356-7212 FAX: 954-724-2507
WWW.KH-H.COM LICENSE NO. CA0885

QUANTUM
Electrical Engineering, Inc.
5575 N. University Dr., Suite 101
Coral Springs, FL 33067
954-210-9224
LICENSE NO. CA0885

ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:
DRAWN BY:
MFB
DESIGNED BY:
ALC
CHECKED BY:
JWK
FIELD BOOK:
TEL: 561-840-0825
FAX:

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

REVISIONS
NO. DATE BY CHD DESCRIPTION
1 7/12/24 JWK ALC ADDENDUM NO.1

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL DEMOLITION PLAN

SHEET NO. OF
E101
TOTAL: 110
CAD FILE:
12764-MULTI-ELEC1
DRAWING FILE NO.
X-XXX-XX

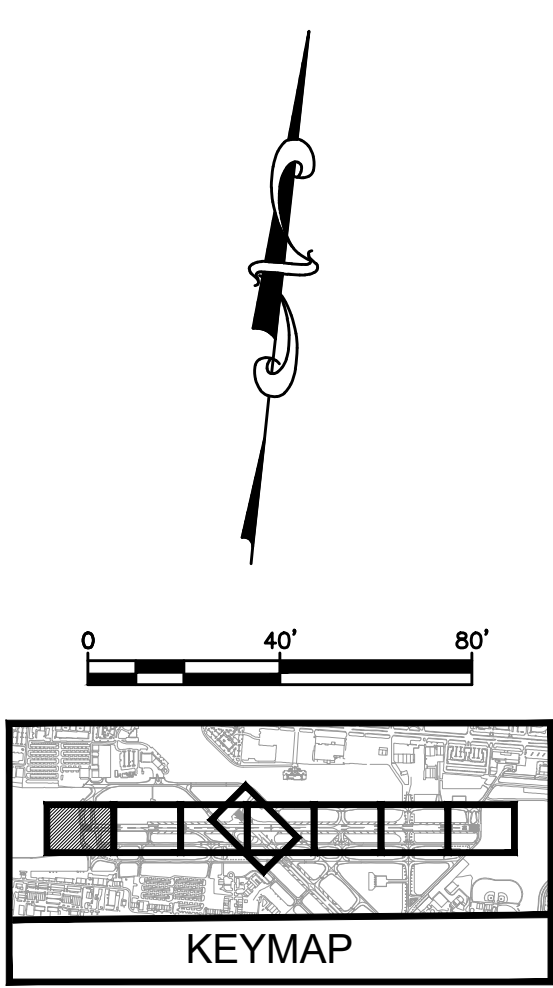
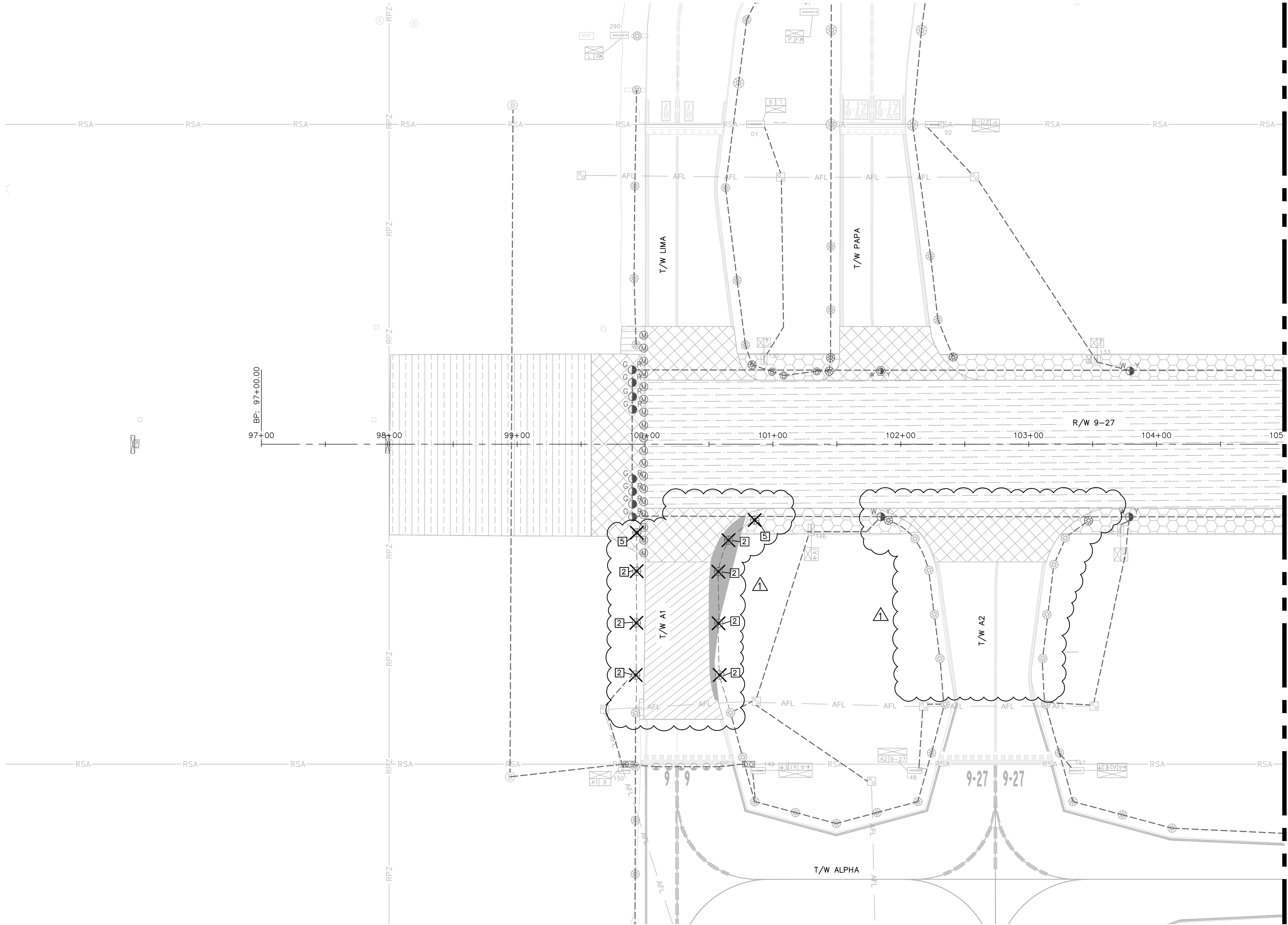
BID SET

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CIVIL HATCH LEGEND

- CONSTRUCT RUNWAY OVERLAY
- CONSTRUCT RUNWAY SHOULDER OVERLAY TRANSITION
- CONSTRUCT RUNWAY BLAST PAD OVERLAY
- CONSTRUCT NEW FULL STRENGTH TAXIWAY PAVEMENT SECTION TO GRADE
- CONSTRUCT TAXIWAY OVERLAY
- CONSTRUCT OVERLAY TRANSITION
- CONSTRUCT TAXIWAY STABILIZED SUBGRADE (P-154) SHOULDER. SOD 20' ADJACENT TO PAVEMENT EDGE.

NOTES:
1. SEE SHEET E002 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.

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CALL 48 HOURS BEFORE DIGGING
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5575 N. University Dr., Suite 101
Coral Springs, FL 33067
PH: 954-356-7212 FAX: 954-356-7217
WWW.KH-HORN.COM LICENSE NO. CA38865

BID SET

ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:

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

DATE: 6/7/24
SCALE: AS NOTED

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

REVISIONS

NO.	DATE	BY	CHD	DESCRIPTION
1	7/12/24	JWK	ALC	ADDENDUM NO.1

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL DEMOLITION PLAN - ADD ALT 1

SHEET NO. E101A OF 110
TOTAL: 110
CAD FILE: 12764-MULTI-ELEC1-ALT1
DRAWING FILE NO.

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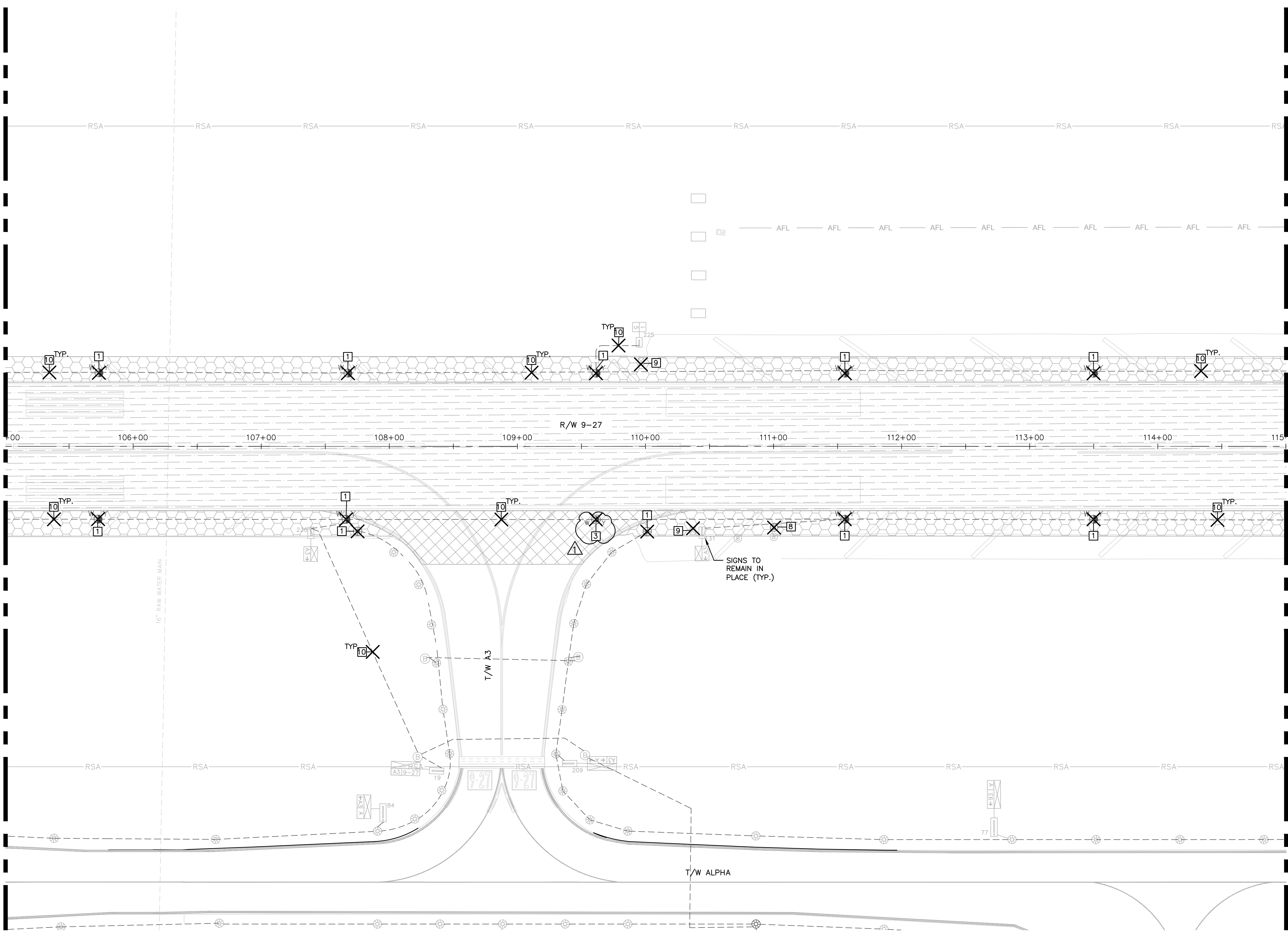
CIVIL HATCH LEGEND

- CONSTRUCT RUNWAY OVERLAY
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- CONSTRUCT TAXIWAY STABILIZED SUBGRADE (P-154) SHOULDER. SOD 20' ADJACENT TO PAVEMENT EDGE.

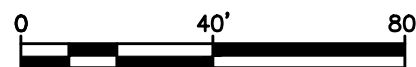
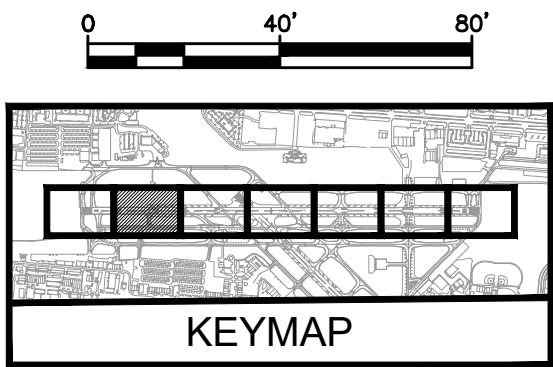
NOTES:

- SEE SHEET E002 FOR ELECTRICAL DEMOLITION NOTES DESCRIPTIONS.

MATCH LINE SHEET E101



MATCH LINE SHEET E103



WARNING!!!
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QUANTUM

5575 N. University Dr., Suite 101
Coral Springs, FL 33067
954-210-9224
LICENSE NO. CA08085

ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:
DRAWN BY:
MFB
DESIGNED BY:
ALC
CHECKED BY:
JWK
FIELD BOOK:
33301
TEL: 561-840-0825
FAX:

DATE: 6/4/24
SCALE: AS NOTED
AS NOTED
JWK

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

NO.	REVISIONS		DESCRIPTION
	DATE	BY	
1	7/12/24	JWK	ALC ADDENDUM NO.1

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL DEMOLITION PLAN

SHEET NO. **E102** OF 110

TOTAL: 110

CAD FILE: 12764-MULTI-ELEC1

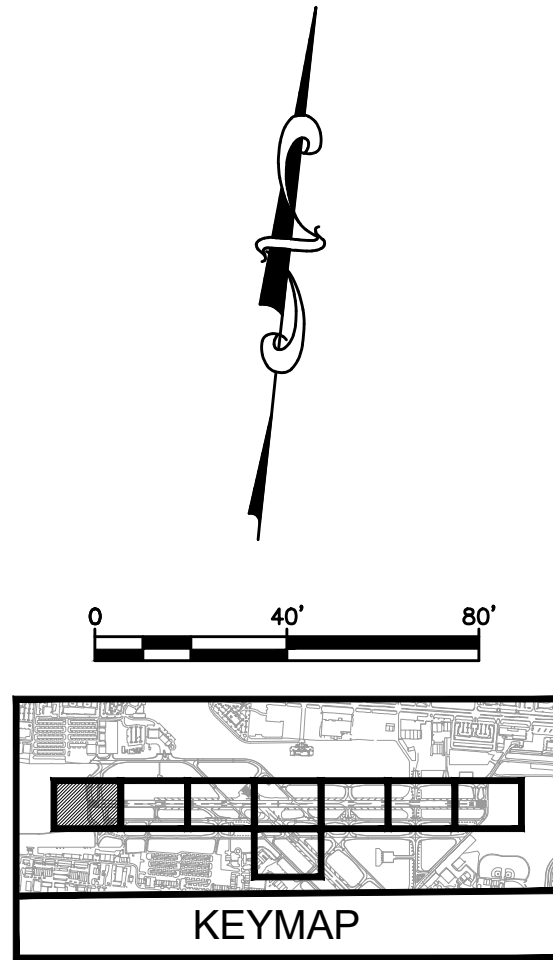
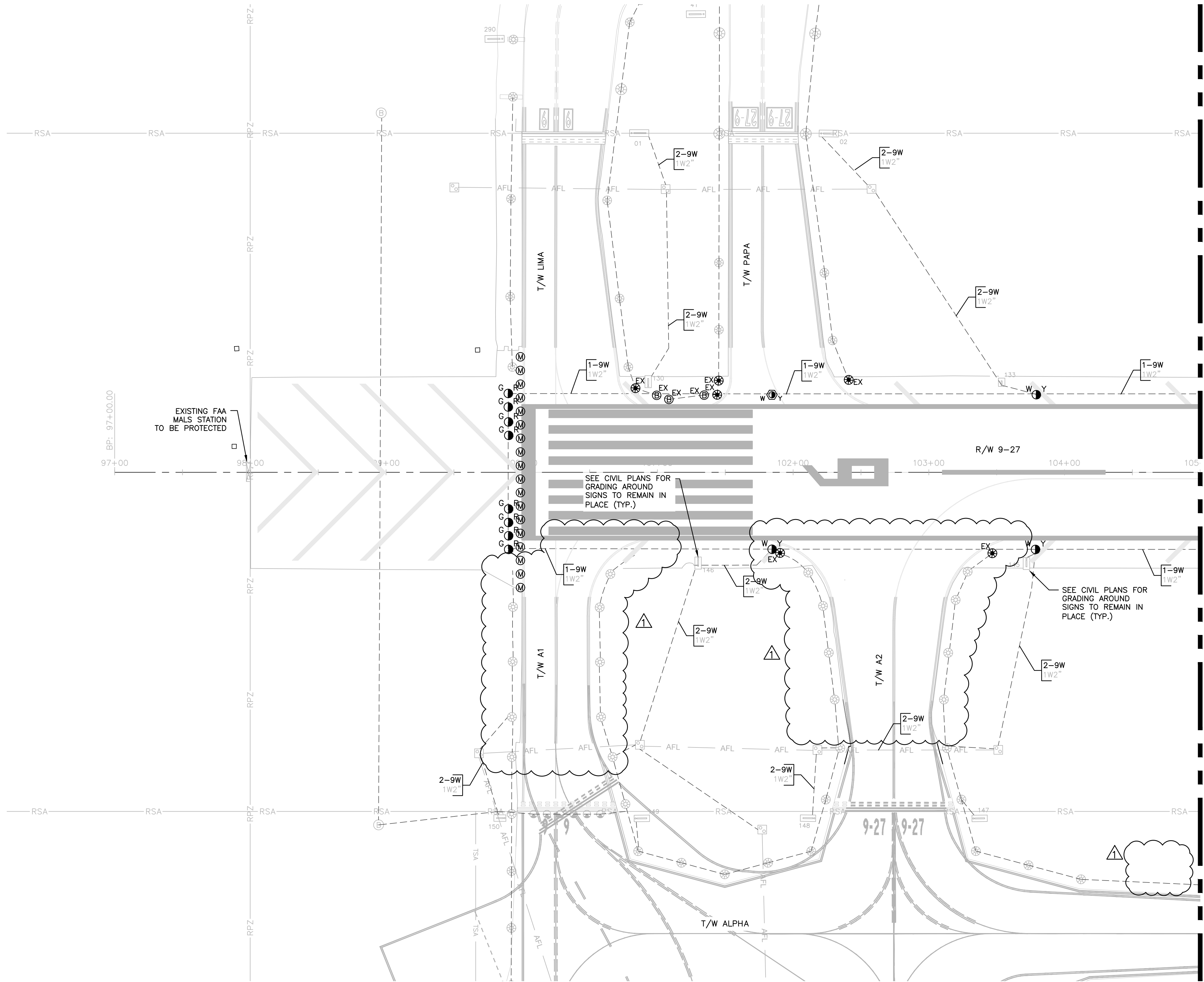
DRAWING FILE NO. X-XXX-XX

CAM #24-0854
Exhibit 1B
Page 410 of 417

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- NOTES:
1. SEE SHEET E002 FOR ELECTRICAL INSTALLATION NOTE DESCRIPTIONS.



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Electrical Engineering, Inc.

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PHONE: 561-858-2507 FAX: 561-758-2507
WWW.KH-HORN.COM EIC001719-00-0000

5575 N. University Dr., Suite 101
Coral Springs, FL 33067
661-210-9224
LICENSE NO. CA38865

BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL CIRCUITRY PLAN

SHEET NO.	OF
E301	
TOTAL:	110
CAD FILE:	12764-MULTI-ELEC3
DRAWING FILE NO.	

NO.	DATE	BY	CHKD	DESCRIPTION
1	7/12/24	JWK	ALC	ADDENDUM NO.1

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

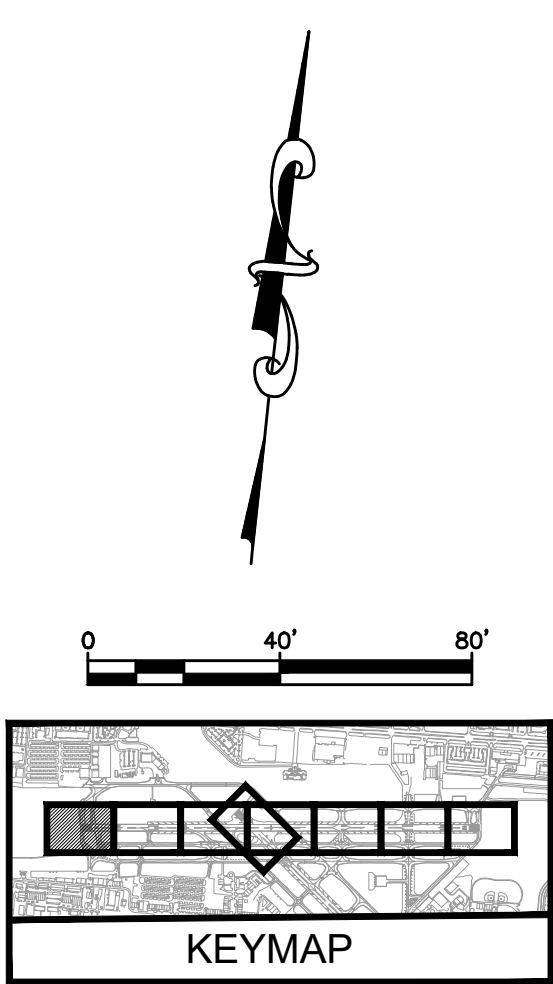
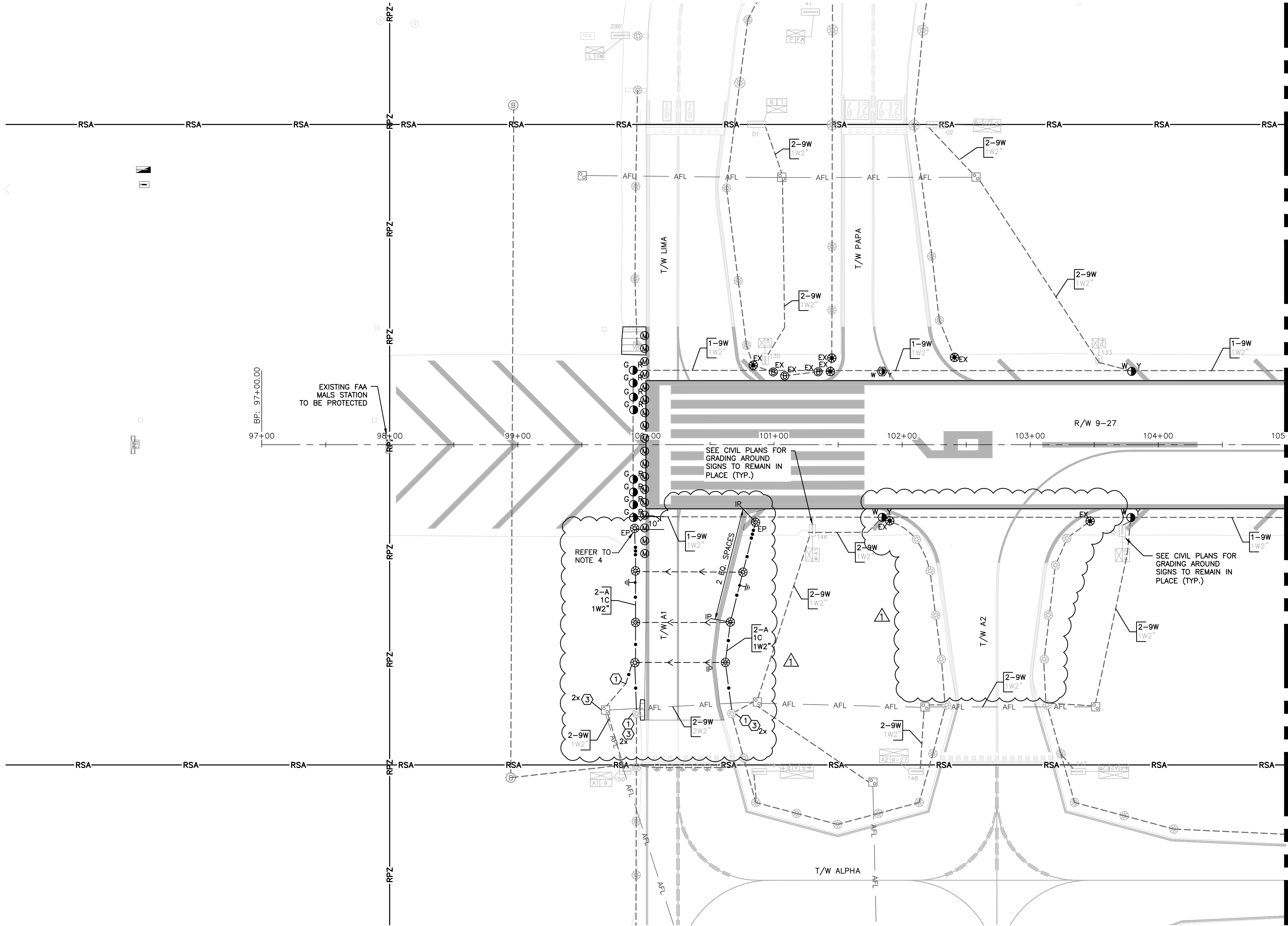
ENGINEER: AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE: 6/7/24
DRAWN BY: MFB
DESIGNED BY: SCALE: ALC
CHECKED BY: JWK
FIELD BOOK: 33301

ENGINEER: AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE: 6/7/24
DRAWN BY: MFB
DESIGNED BY: SCALE: ALC
CHECKED BY: JWK
FIELD BOOK: 33301

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NOTES:

1. REFER TO TYPICAL TAXIWAY EDGE LIGHT CONFIGURATION DETAIL FOR LAYOUT AND INSTALLATION INFORMATION OF NEW EDGE LIGHTS AND BASE CANS.
2. CONTRACTOR SHALL UTILIZE EQUAL SPACING, IP(S) AND PT(S) FOR THE LIGHTING LAYOUT. PT AND IP LOCATIONS SHALL BE PER GEOMETRY PLAN.
3. TYPICAL NEW SIGN OFFSET TO BE INSTALLED AT 15' FROM EDGE OF FULL STRENGTH PAVEMENT UNLESS NOTED OTHERWISE. SEE SIGN DETAILS AND NOTES FOR ADDITIONAL INFORMATION.
4. THE LAST TAXIWAY EDGE LIGHT AT THIS LOCATION SHALL BE INSTALLED 3' FROM THE RUNWAY EDGE LIGHT OFFSET LINE.
5. THE LAST TAXIWAY EDGE LIGHT AT THIS LOCATION SHALL BE INSTALLED 10' FROM THE RUNWAY EDGE LIGHT OFFSET LINE.
6. REFER TO RUNWAY GUARD LIGHT HOLDBAR LAYOUT FOR INPAVEMENT AND ELEVATED RUNWAY GUARD LIGHT LAYOUT INSTALLATION INFORMATION.



ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO. 73735
DATE:

DRAWN BY: MFB
DESIGNED BY: ALC
CHECKED BY: JWK
DATE: 6/7/24
SCALE: AS NOTED
FIELD BOOK: 33301

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

NO.	DATE	BY	CHD	REVISIONS	
				DESCRIPTION	
1	7/12/24	JWK	ALC	ADDENDUM NO.1	

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL CIRCUITRY PLAN - ADD ALT 1

SHEET NO. E301A OF 110
TOTAL: 110
CAD FILE: 12764-MULTI-ELEC3-ALT1
DRAWING FILE NO.

WARNING!!!
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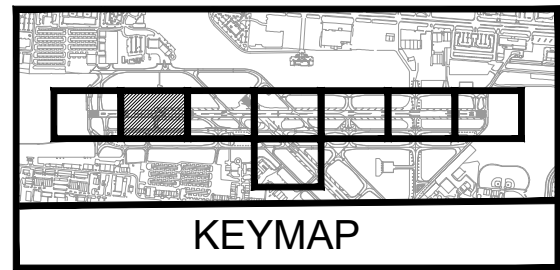
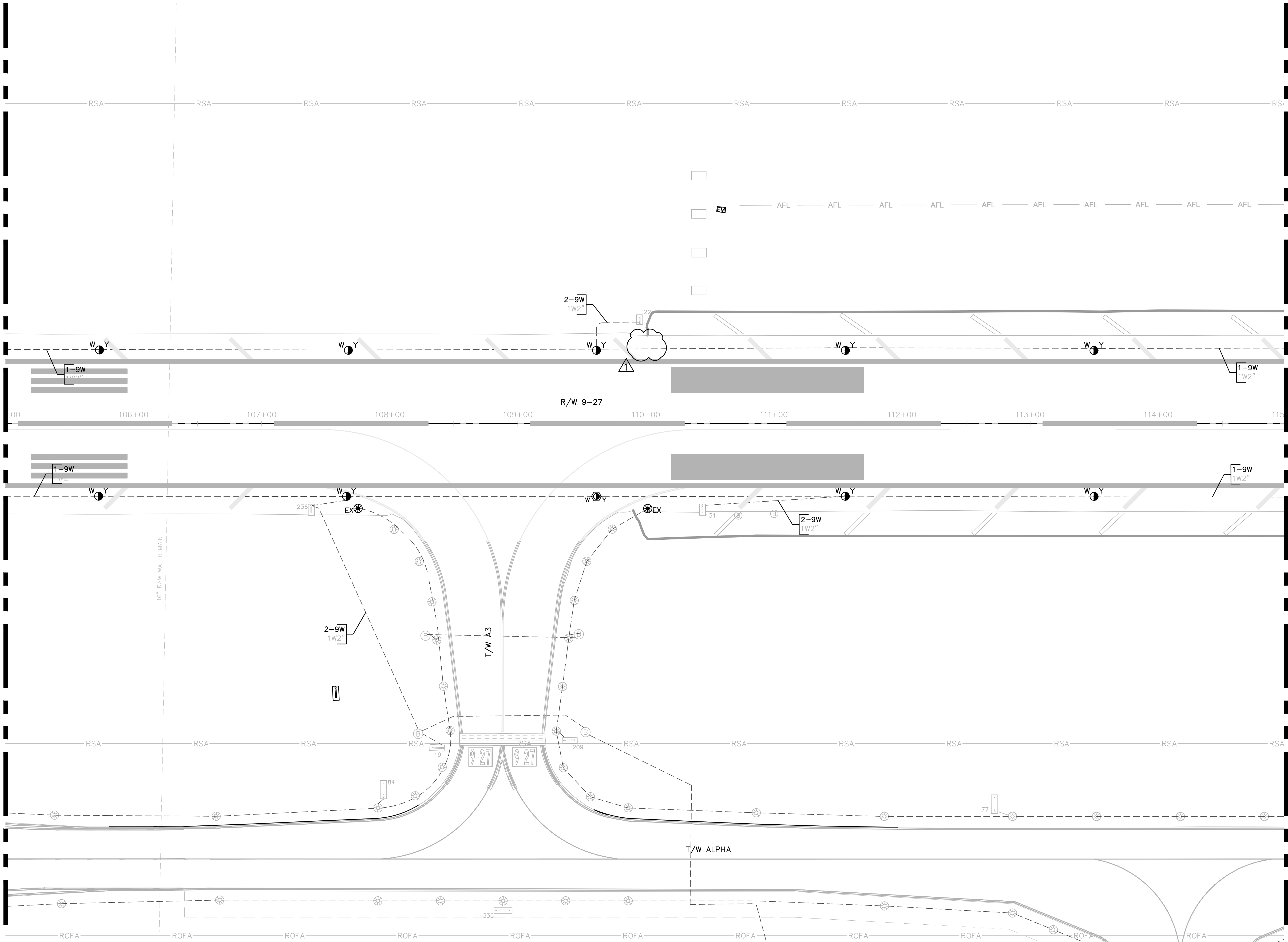
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NOTES:
1. SEE SHEET E002 FOR ELECTRICAL INSTALLATION NOTE DESCRIPTIONS.

MATCH LINE SHEET E301



0 40' 80'



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Orlando, FL 32817
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BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL CIRCUITRY PLAN

SHEET NO.	OF
E302	110
TOTAL:	110
CAD FILE:	12764-MULTI-ELEC3
DRAWING FILE NO.	

DRAWN BY:	DATE:
MFB	6/7/24
DESIGNED BY:	SCALE:
ALC	AS NOTED
CHECKED BY:	
JWK	
FIELD BOOK:	

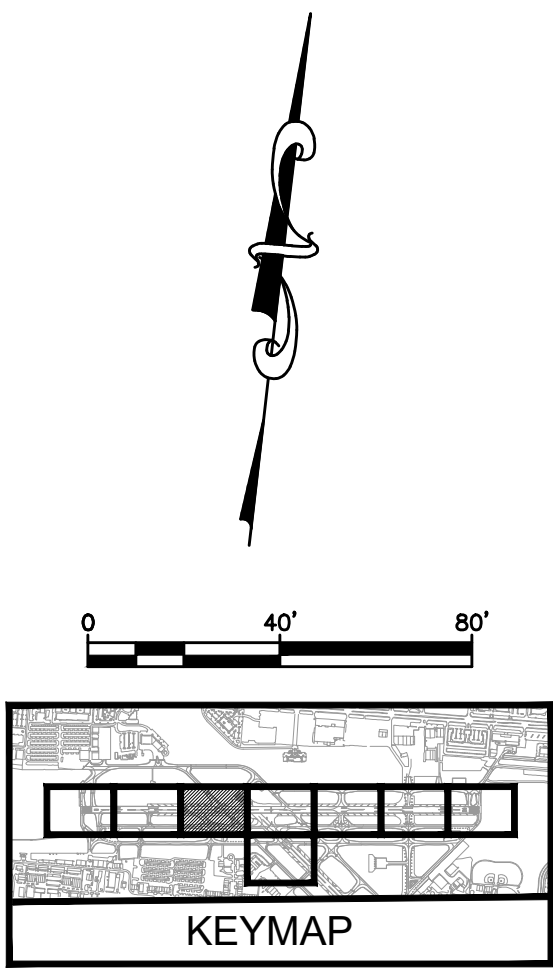
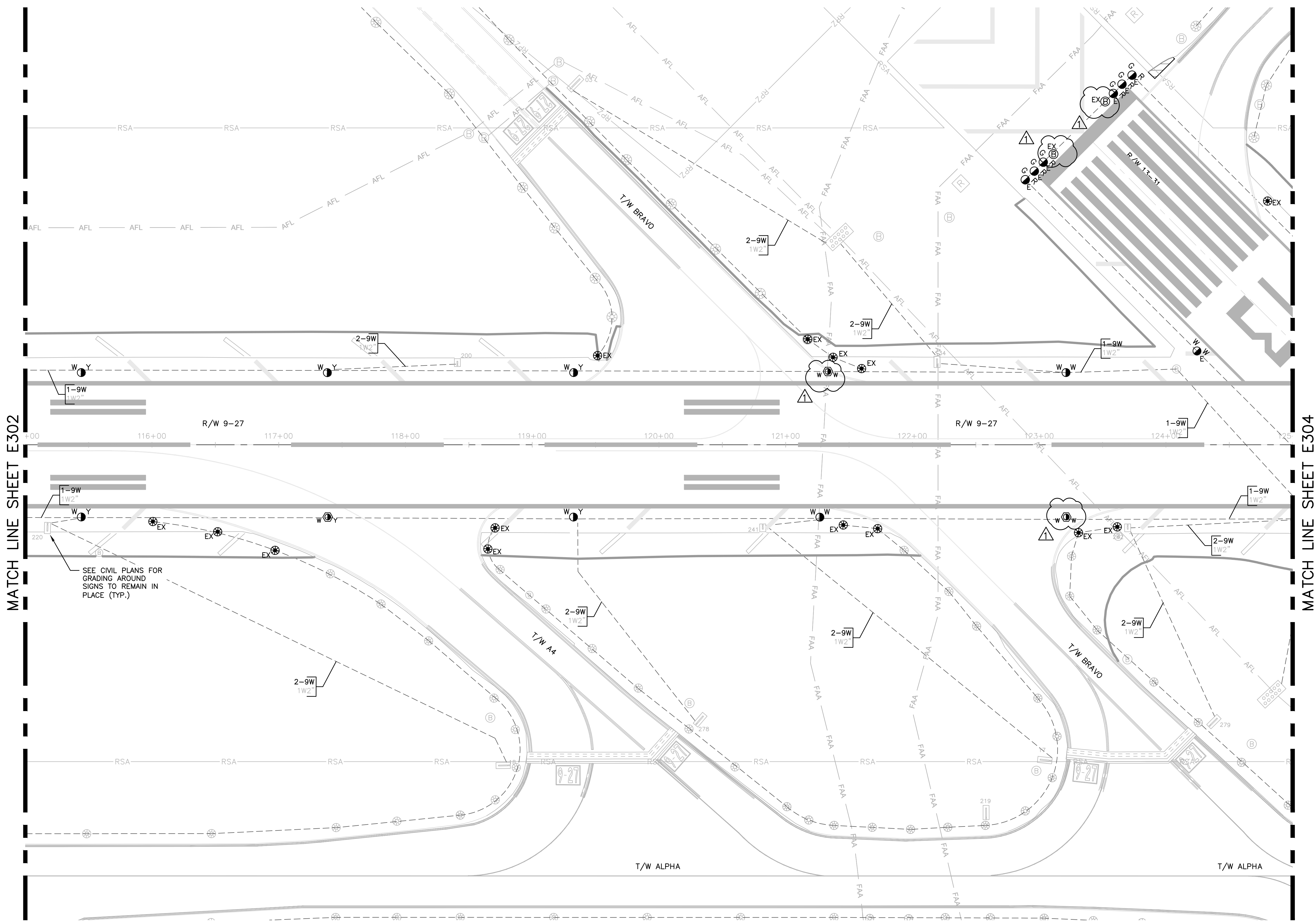
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:

TEL: 561-840-0825
FAX:

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- NOTES:
1. SEE SHEET E002 FOR ELECTRICAL INSTALLATION NOTE DESCRIPTIONS.

WARNING!!!
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PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL CIRCUITRY PLAN

SHEET NO. **E303** OF
TOTAL: 110
CAD FILE:
12764-MULTI-ELEC3
DRAWING FILE NO.

ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO. 73735
DATE:

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

DATE: 6/7/24
SCALE: AS NOTED

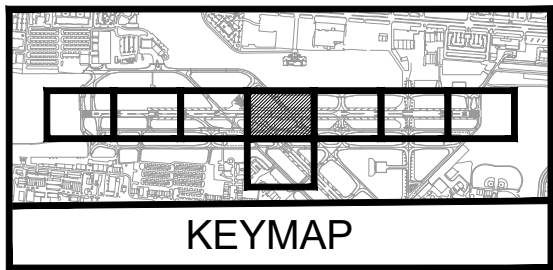
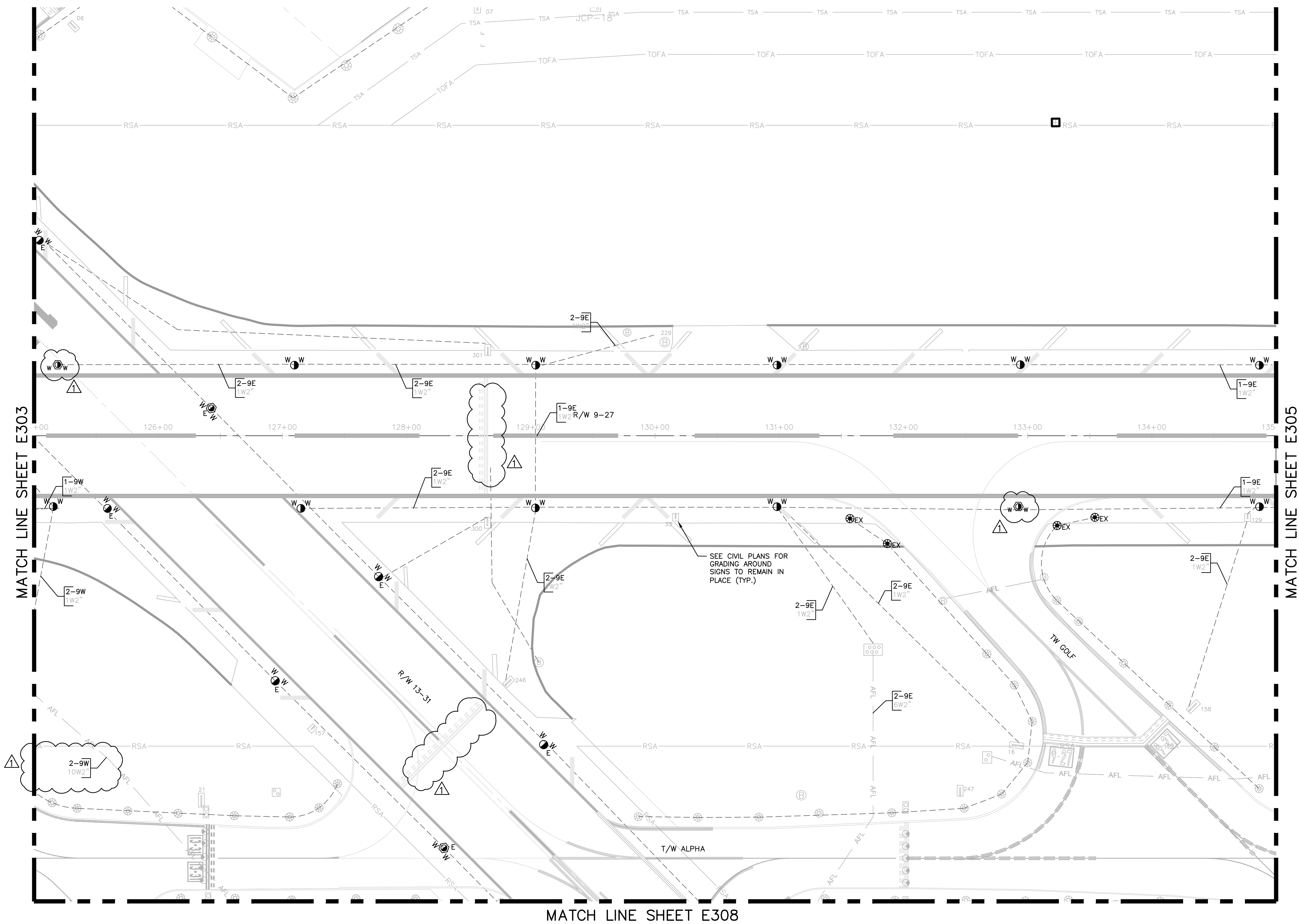
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHD	DESCRIPTION
1	7/12/24	JWK	ALC	ADDENDUM NO.1

ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO. 73735
DATE:

TEL: 561-840-0825
FAX:

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- NOTES:
1. SEE SHEET E002 FOR ELECTRICAL INSTALLATION NOTE DESCRIPTIONS.

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Orlando, FL 32817
603-230-9224
LICENSE NO. CA38865

ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE:

DRAWN BY: MFB
DESIGNED BY: ALC
CHECKED BY: JWK
DATE: 6/7/24
SCALE: AS NOTED
FIELD BOOK:

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		NO.	DATE	BY	DESCRIPTION
		1	7/12/24	JWK	ALC ADDENDUM NO.1

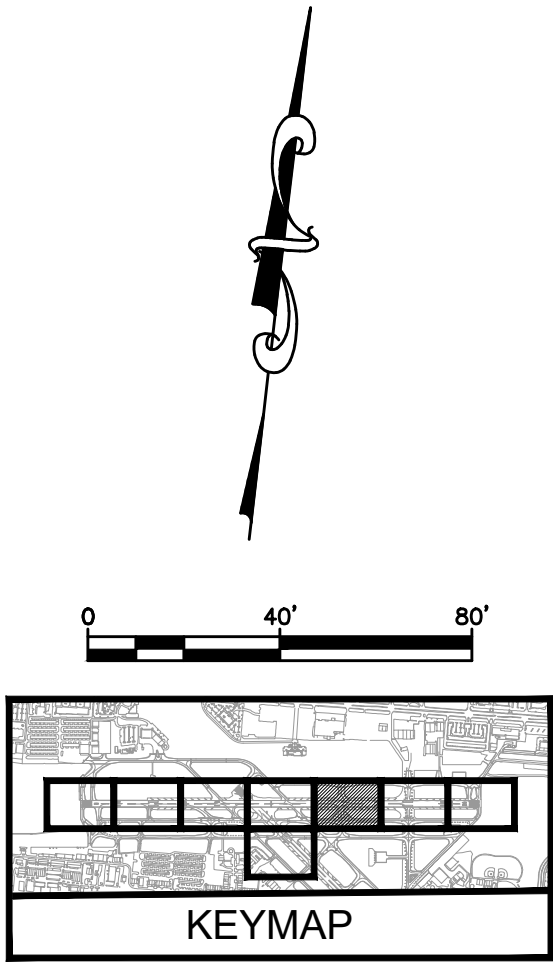
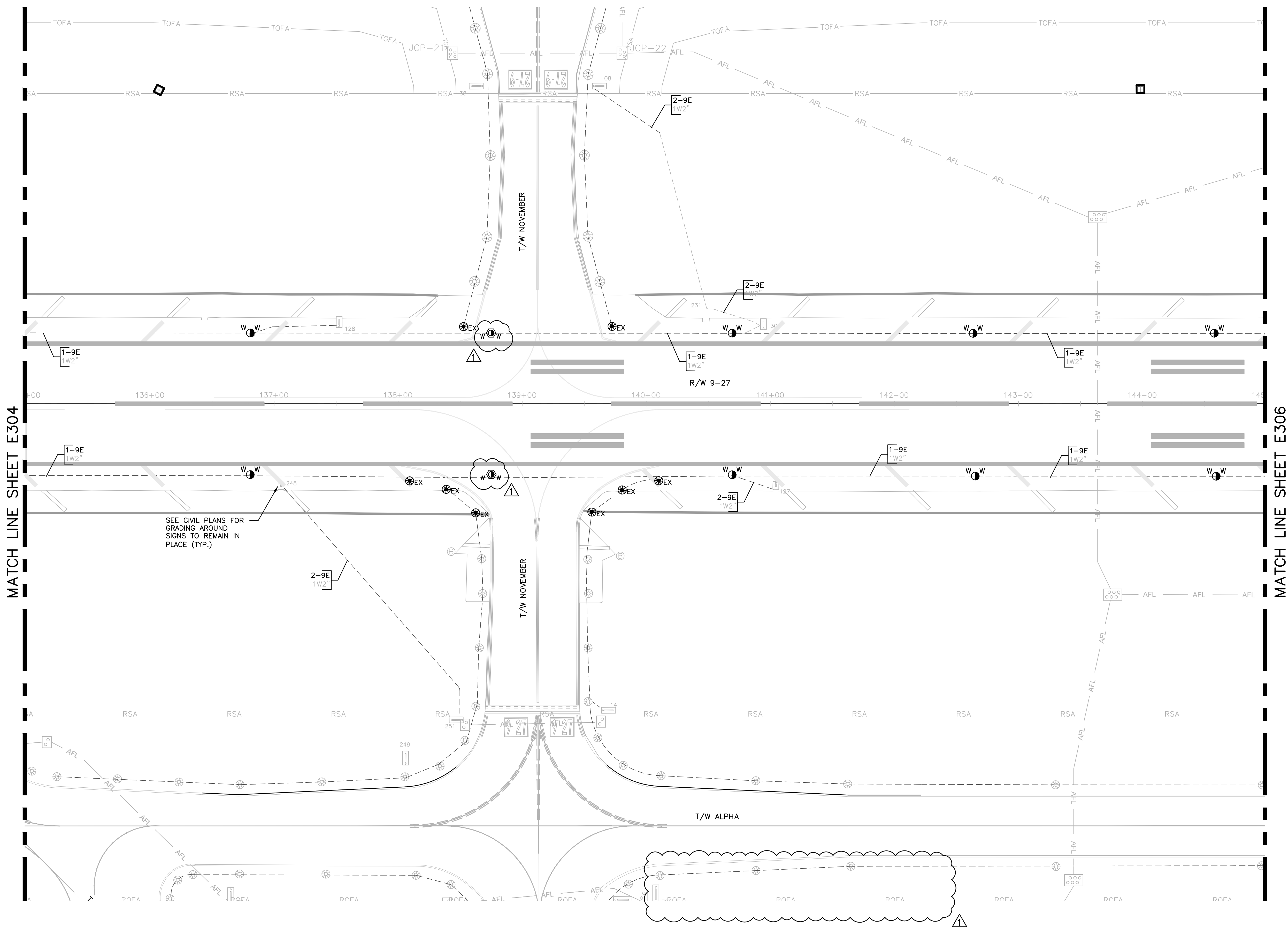
PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL CIRCUITRY PLAN

SHEET NO. **E304** OF

TOTAL: 110
CAD FILE:
12764-MULTI-ELEC3
DRAWING FILE NO.

BID SET

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- NOTES:
1. SEE SHEET E002 FOR ELECTRICAL INSTALLATION NOTE DESCRIPTIONS.

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WWW.KH-HORN.COM LICENSE NO. CA38865

5575 N. University Dr., Suite 101
Coral Springs, FL 33067
561-230-9224
LICENSE NO. CA38865

ENGINEER:
AMY CHAMPAGNE-BAKER
REG. NO. 73735
DATE:

DRAWN BY: MFB
DATE: 6/7/24
DESIGNED BY: SCALE:
ALC AS NOTED
CHECKED BY: JWK
FIELD BOOK:

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

REVISIONS		DATE	BY	CHD	DESCRIPTION
NO.	DATE	7/12/24	JWK	ALC	ADDENDUM NO.1
1					

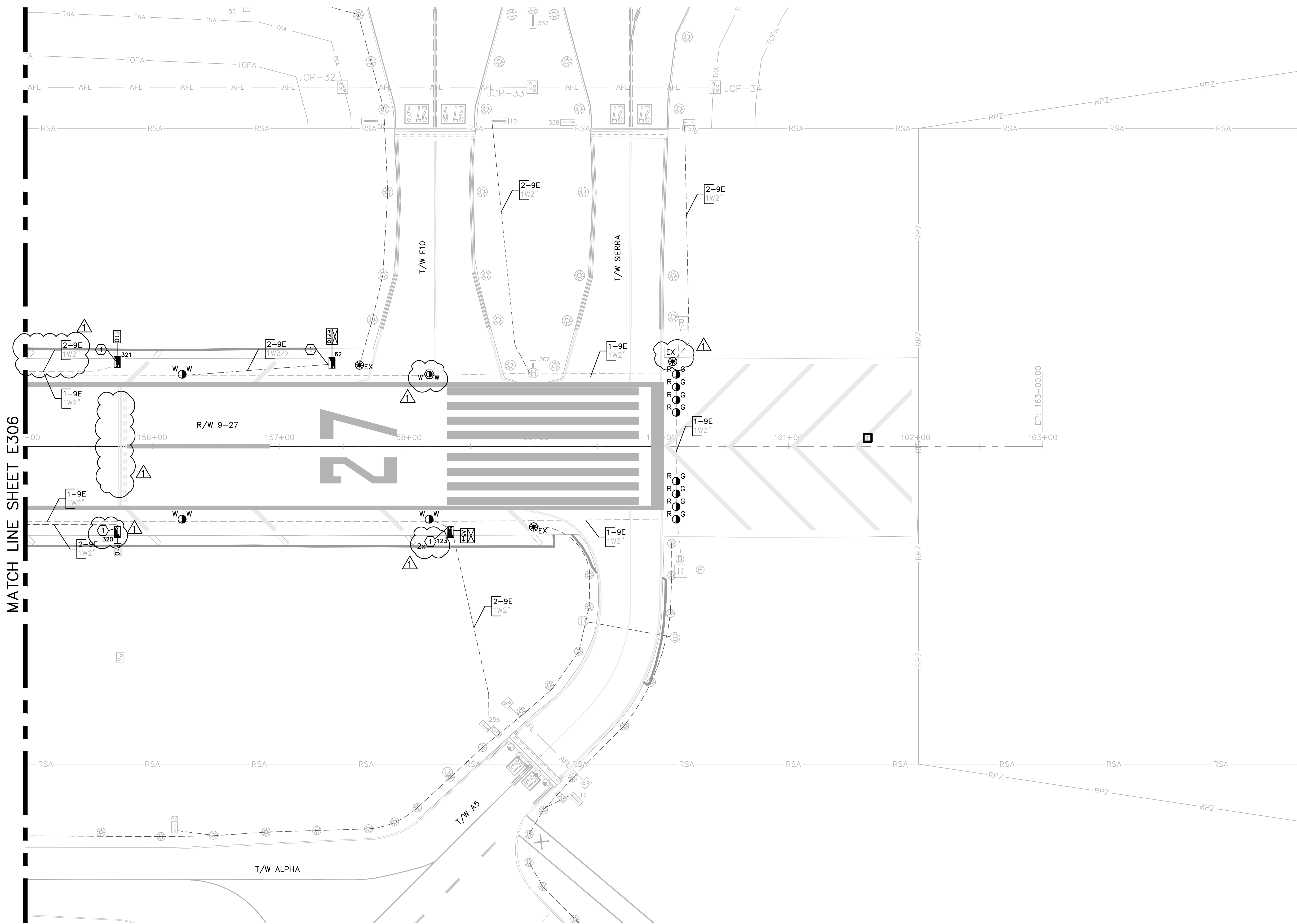
PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL CIRCUITRY PLAN

SHEET NO. **E305** OF

TOTAL: 110
CAD FILE:
12764-MULTI-ELEC3
DRAWING FILE NO.

BID SET

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NOTES:
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WARNING!!!
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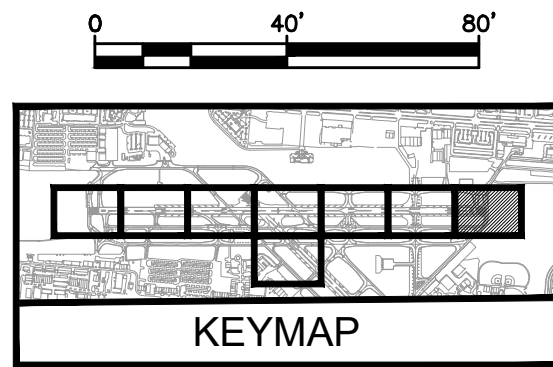
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BID SET

PROJECT # 12764
RUNWAY 9-27
PAVEMENT REHABILITATION
ELECTRICAL CIRCUITRY PLAN

SHEET NO.	OF
E307	110
TOTAL:	110
CAD FILE:	12764-MULTI-ELEC3
DRAWING FILE NO.	

NO.	DATE	BY	DESCRIPTION
1	7/12/24	JWK	ALC ADDENDUM NO.1

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

ENGINEER: AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE: 6/7/24
DRAWN BY: MFB
DESIGNED BY: SCALE: ALC
CHECKED BY: JWK
FIELD BOOK: 33301

ENGINEER: AMY CHAMPAGNE-BAKER
REG. NO: 73735
DATE: 6/7/24
DRAWN BY: MFB
DESIGNED BY: SCALE: ALC
CHECKED BY: JWK
FIELD BOOK: 33301