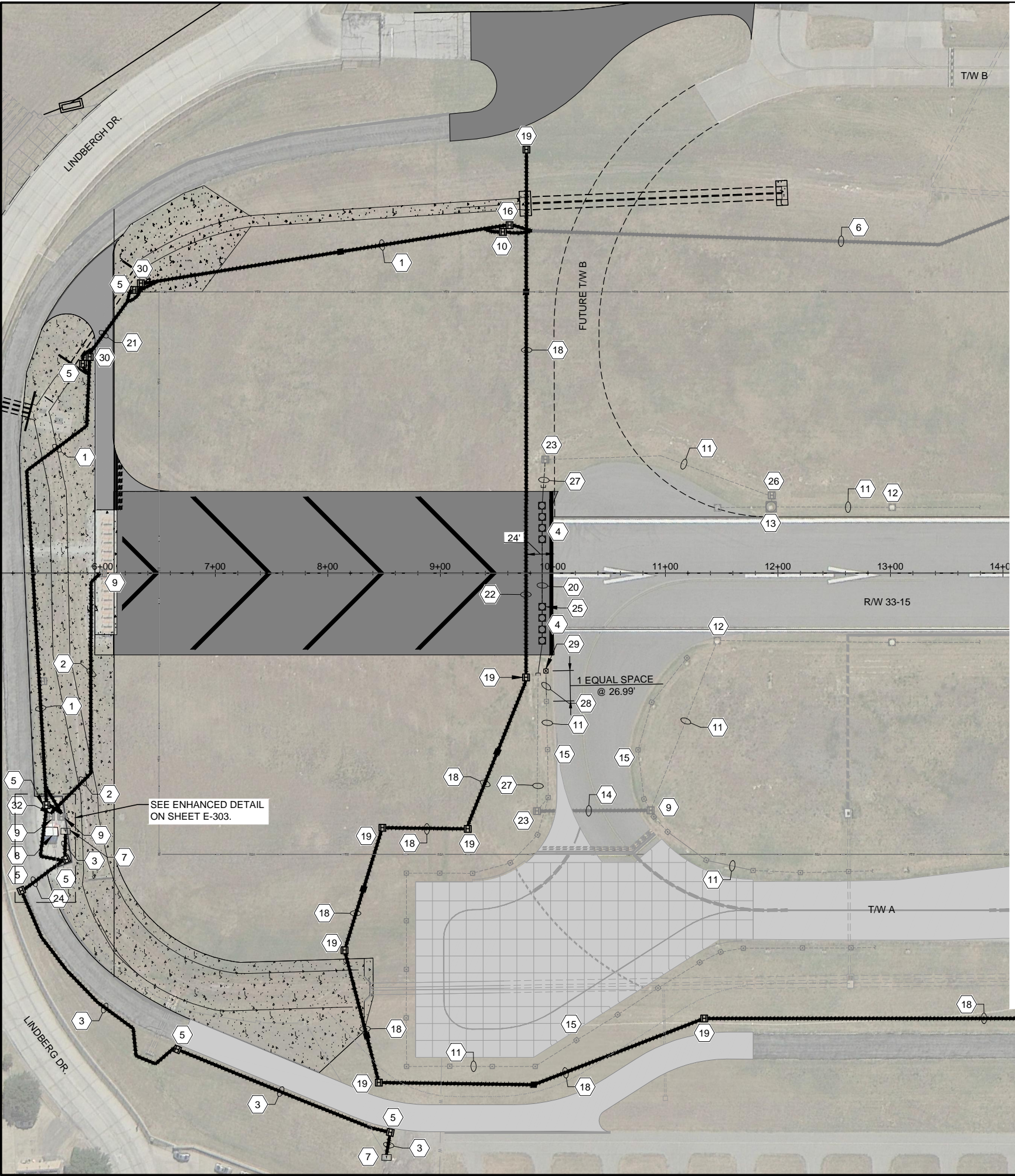
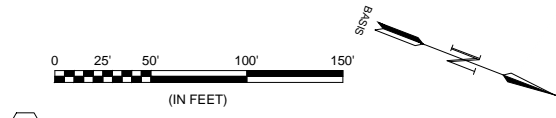


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 Last Plotted by: Suarez, Javier Plot Style: AECmonochrome.ctb Plot Date: 3/10/2015 4:57 PM Plotter used: DWG To PDF.pc3



INSTALLATION KEYED NOTES:

- 1 INSTALL NEW 4W-4°C NON-ENCASED FAA-STYLE DUCT BANK. INSTALL NEW 3#8 (TWO PHASE CONDUCTORS AND ONE GROUND), 5kV-RATED, SINGLE CONDUCTOR, SHIELDED, EPR-INSULATED, PVC-JACKETED, WITH MV-105-133% INSULATION LEVEL POWER CABLE FOR GLIDESLOPE POWER, NEW (2#6+1#6EG) 600V-RATED POWER CABLES FOR REIL POWER AND A 25-PAIR COPPER COMMUNICATIONS CABLE FOR GLIDESLOPE COMMUNICATIONS. INSTALL POWER AND COMMUNICATIONS CABLE IN SEPARATE HANDHOLES WITH TWO CONDUITS FOR POWER AND TWO CONDUITS FOR COMMUNICATION.
- 2 INSTALL NEW 4#6 AWG 600V-RATED CABLES FOR FAA LOCALIZER POWER, A 12-PAIR COPPER COMMUNICATIONS CABLE FOR CONTROL, AND FIVE (5) HELIAX ANTENNA CABLES IN NEW 4W-4°C NON-ENCASED DUCT BANK.
- 3 INSTALL NEW 2W-4°C NON-ENCASED FAA-STYLE DUCT BANK. INSTALL NEW 3#8 (TWO PHASE CONDUCTORS AND ONE GROUND), 5kV-RATED, SINGLE CONDUCTOR, SHIELDED, EPR-INSULATED, PVC-JACKETED, WITH MV-105-133% INSULATION LEVEL POWER CABLE FROM THE FAA NAVAIDS TRANSFORMER TO LOCALIZER SHELTER STEP-DOWN TRANSFORMER.
- 4 RE-INSTALL EXISTING L-862E RUNWAY END LIGHT ON NEW L-867B CONCRETE-ENCASED JUNCTION CAN. CONCRETE SHALL MATCH SURROUNDING NEW EMAS FOUNDATION PAVEMENT. (TYPICAL)
- 5 INSTALL NEW FAA-STYLE HANDHOLE FOR POWER. INSTALL, LABEL/TAG, AND RACK CABLES WITHIN HANDHOLE.
- 6 EXISTING DEB REIL POWER, GLIDESLOPE POWER, AND GLIDESLOPE COMMUNICATION DIRECT-BURIED CABLES TO REMAIN. PROTECT DURING CONSTRUCTION.
- 7 EXISTING FAA LOCALIZER TRANSFORMER TO REMAIN. PROTECT DURING CONSTRUCTION. CONNECT NEW CABLES AND CONDUITS FOR COMPLETE POWER STEP-UP/STEP-DOWN SYSTEM.
- 8 EXISTING LOCALIZER SHELTER TO REMAIN. PROTECT DURING CONSTRUCTION. EXTEND CABLES FROM HANDHOLES TO SHELTER IN NEW AND EXISTING CONDUITS. MAKE FINAL CONNECTIONS TO EQUIPMENT.
- 9 EXISTING HANDHOLE TO REMAIN. PROTECT DURING CONSTRUCTION. INSTALL, LABEL/TAG, AND RACK CABLES WITHIN HANDHOLE. MAKE ALL FINAL CONNECTIONS TO EQUIPMENT.
- 10 INSTALL A NEW FAA-STYLE HANDHOLE FOR POWER. INSTALL WATERTIGHT CONDUIT ENTRANCE FOR EXISTING DEB REIL POWER CIRCUIT AND GLIDESLOPE POWER CIRCUIT. SPLICE NEW REIL POWER CIRCUIT AND GLIDESLOPE POWER CIRCUIT TO EXISTING CIRCUITS WITHIN HANDHOLE USING APPROVED WATERPROOF SPLICE KITS.
- 11 EXISTING LIGHTING CIRCUIT TO REMAIN. PROTECT DURING CONSTRUCTION.
- 12 EXISTING RUNWAY LIGHTS TO REMAIN. PROTECT DURING CONSTRUCTION.
- 13 EXISTING JUNCTION STRUCTURE TO REMAIN. PROTECT DURING CONSTRUCTION.
- 14 EXISTING DUCT TO REMAIN. PROTECT DURING CONSTRUCTION.
- 15 EXISTING TAXIWAY LIGHTS TO REMAIN. PROTECT DURING CONSTRUCTION. (TYPICAL)
- 16 INSTALL NEW FAA-STYLE HANDHOLE FOR COMMUNICATION. INSTALL WATERTIGHT ENTRANCE CONDUIT FOR EXISTING DEB GLIDESLOPE COMMUNICATION CIRCUIT. SPLICE NEW GLIDESLOPE COMMUNICATION CIRCUIT TO EXISTING CIRCUIT WITHIN HANDHOLE USING APPROVED WATERPROOF SPLICE KITS.
- 17 EXISTING HANDHOLE TO REMAIN. CORE DRILL INTO SIDE OF HANDHOLE TO ALLOW FOR INSTALLATION OF NEW 1W-4°C CONDUIT FOR FUTURE FIBER COMMUNICATION CABLES. CORE DRILLING SHALL BE SUBSIDIARY TO THE 1W-4°C NON-ENCASED CONDUIT PAY ITEM.
- 18 INSTALL NEW NON-ENCASED 1W-4°C CONDUIT FOR THE FUTURE INSTALLATION OF FIBER COMMUNICATION CABLES.
- 19 INSTALL NEW AIRCRAFT RATED HANDHOLE.
- 20 INSTALL NEW CONCRETE-ENCASED 1W-2°C CONTAINING NEW CONDUCTORS FOR THE RUNWAY LIGHTING CIRCUIT. ENCASE TO A MINIMUM 10' PAST EDGE OF EMAS PAVING.
- 21 INSTALL NEW CONCRETE-ENCASED 4W-4°C FAA-STYLE DUCT BANK UNDER PAVEMENT MINIMUM 10' BEYOND PAVEMENT EDGE. INSTALL NEW REIL AND GLIDESLOPE POWER CIRCUITS AND NEW GLIDESLOPE COMMUNICATION CABLES IN SEPARATE CONDUITS AND SEPARATE HANDHOLES.
- 22 INSTALL NEW CONCRETE ENCASED 1W-4°C DUCT BANK UNDER PAVEMENT FOR THE FUTURE INSTALLATION OF FIBER COMMUNICATION CABLES. MINIMUM 10' BEYOND PAVEMENT EDGE.
- 23 EXISTING HANDHOLE TO REMAIN. INSTALL NEW L-823 CONNECTORS FOR THE CONNECTION OF THE NEW CONDUCTORS OF THE RUNWAY LIGHTING CIRCUIT TO THE EXISTING RUNWAY CIRCUIT.
- 24 SAWCUT EXISTING ACCESS ROAD AND INSTALL NEW 1W-2°C CONCRETE ENCASED FAA DUCT BANK. INSTALL NEW FAA LOCALIZER POWER CABLES. INSTALL NEW ASPHALT TO MATCH EXISTING PERIMETER ROAD.
- 25 INSTALL NEW FIELD LIGHTNING ARRESTOR IN RUNWAY EDGE LIGHT BASE. SEE NOTE 4 OF DETAIL 3 ON E-302. ALSO SEE DETAIL 2 ON E-301 FOR BRONZE MARKER DETAIL.
- 26 EXISTING HANDHOLE TO REMAIN. PROTECT DURING CONSTRUCTION.
- 27 INSTALL NEW #8 L-824C CABLE IN EXISTING AND NEW CONDUIT. CONNECT TO RUNWAY END LIGHTS.
- 28 INSTALL NEW #8 L-824C CABLE IN EXISTING AND NEW CONDUIT. CONNECT TO TAXIWAY EDGE LIGHTS.
- 29 RE-INSTALL EXISTING L-861T TAXIWAY EDGE LIGHT ON NEW L-867B CONCRETE-ENCASED JUNCTION CAN. (TYPICAL)
- 30 INSTALL NEW FAA-STYLE HANDHOLE FOR COMMUNICATION. INSTALL, LABEL/TAG, AND RACK CABLES WITHIN HANDHOLE.
- 31 NOT USED.
- 32 CUT EXISTING 4" CONDUITS APPROXIMATELY 2' FROM HANDHOLE AND COUPLE NEW CONDUITS TO EXISTING CONDUITS.



REGISTRATION NO. F-5713

RECORD DRAWINGS
03/10/2015

REV.	DATE	DESCRIPTION	BY

ADDISON AIRPORT
ADDISON, TEXAS
ADDISON AIRPORT
RUNWAY 33 RSA IMPROVEMENTS

AIRFIELD ELECTRICAL IMPROVEMENTS INSTALLATION PLAN

JOB NO.: 13081100
DATE: NOV. , 2013
DESIGNED BY: MCL
DRAWN BY: JKS

BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
E-102
SHEET NUMBER
46

GENERAL KEYED NOTES:

- 1. ALL WORK WITHIN A 10' PERIMETER OF THE LOCALIZER SHELTER SHALL BE CONSIDERED SUBSIDIARY TO THE LOCALIZER SHELTER MODIFICATIONS PAY ITEM.
- 2. SEE SHEET E-001 FOR LEGEND AND ABBREVIATIONS, GENERAL CONSTRUCTION NOTES, CAUTION NOTES, AND ELECTRICAL SAFETY NOTES.
- 3. FOR MEDIUM-VOLTAGE SPLICING AND TERMINATION WORK, ELECTRICIANS SHALL HAVE A MINIMUM OF THREE (3) YEARS MEDIUM-VOLTAGE SPLICING EXPERIENCE.