NOTES:

1. SEE SHEETS E-001 & EL001 FOR GENERAL ELECTRICAL NOTES AND LEGEND.

TAXIWAY A

TAXIWAY SC

TAXIWAY M2

TAXIWAY L

99+00 100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00

TAE1 TAS1 TAC2 TM2C1 TAS1 TAE1 TAC1 TAC1S TAC1* TAC1S* TAC2* TM2C1* TAS1-19515 TAS1-19511 TAS1-19505 EMH-02572 EMH-08057 ALD-02572 ALD-02570 ALD-08057 ALD-08057A ALD-080055A ALD-08055 ALD-080055A TME1 TME1* TAS1* TAE1* TM2C1 TSA TOFA DB FAA FAA-256A

2M 3M 4M SC

ALD-08057A
A- TMS1*, TMC1*
B- SPARE

ALD-08057
A- SPARE
B- SPARE
C- TMS1*
D-

ALD-080055A
A- TMS1*, TMC1*
B- TEASB2*, TEASB3*, TM5HC*
C- TMSB*, TMWW*, 17RMDT*
D- 35LCP1*

ALD-02572
A- TAE1*, TAS1*, TAC1*
B- SPARE
C- SPARE
D- SPARE

ALD-02570
A- TAE1*, TAS1*, TME1*, TAC2*, TM2C1*
B- SPARE
C- SPARE
D- SPARE

ALD-08055
A- TAE1*, TAS1*, TAC1*, TAC2*, TME1*, TM2C1*
B- TM5HC*, TAESB1*, TAESB2*, TAESB3*, TASC1*
C- TMS1*, TMSB*, TMWW*, 17RMDT*
SPARE 1*, SPARE 2*, SPARE 3*
D- 35LCP1*

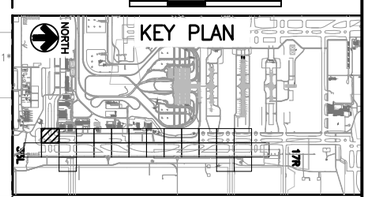
MATCH LINE SEE SHEET EL119

MATCH LINE SEE SHEET EL102

NORTH

40' 20' 0 40'

KEY PLAN



COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE: ELECTRICAL NEW PLAN (18 OF 29)

SHEET NO. EL118
240 OF 396

CADD FILE NO. _201735882-B1EELP-1220

D:\Drobox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELP-1220.dwg Feb 12, 2019 - 5:17pm Kat

NOTES:

1. SEE SHEETS E-001 & EL001 FOR GENERAL ELECTRICAL NOTES AND LEGEND.

MATCH LINE SEE SHEET EL118

MATCH LINE SEE SHEET EL120

MATCH LINE SEE SHEET EL103

TAXIWAY L

TAXIWAY EA

ALD-08055
A- TAE1*, TAS1*, TAC1*, TAC2*
B- TM5HC*, TAESB1*, TAESB2*, TAESB3*, TASC1*
C- TMS1*, TMSB*, TMWW*, 17RMDT*
SPARE 1*, SPARE 2*, SPARE 3*
D- 35LCP1*

ALD-08005
A- TME1, TMS1
B- SPARE

ALD-08049A
A- SPARE
B- TMSB, TEASB3, TM5HC
C- TMS1*, TMWW*, 17RMDT*
D- SPARE

ALD-08049
A- TAE1*, TAS1*, TAC1*, TAC2*
B- TAESB1*, TAESB2*, TAESB3*, TASC1*
C- TMSB*, TM5HC*, TMWW*, 17RMDT*
SPARE 1*, SPARE 2*, SPARE 3*
D- 35LCP

NORTH

40' 20' 0 40'

KEY PLAN

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

ELECTRICAL NEW PLAN (19 OF 29)

SHEET NO. EL119

241 OF 396

CADD FILE NO. _201735882-B1EELP-1220

COLORADO LICENSED AARON LEAN 52246 2/15/19 PROFESSIONAL ENGINEER

D:\Dropbox (lean photometrics)\active projects\t571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELP-1220.dwg Feb 12, 2019 - 5:17pm Kat

NOTES:

1. SEE SHEETS E-001 & EL001 FOR GENERAL ELECTRICAL NOTES AND LEGEND.

MATCH LINE SEE SHEET EL119

MATCH LINE SEE SHEET EL121

FO

118+00 119+00 120+00 121+00 122+00 123+00 124+00 125+00 126+00 127+00

TCDB-08003
A- SPARE
B- SPARE
C- SPARE
D- SPARE

ALD-08048
A- TAE1*, TAS1*, TAC1*, TAC2*
B- TAESB1*, TAESB2*, TAESB3*, TASC1*
C- **TMSB*, TM5HC*, TMWW*, 17RMDT* SPARE 1*, SPARE 2*, SPARE 3***
D- **35LCP1***

ALD-08046
A- TAE1*, TAS1*, TAC1*, TAC2*
B- TAESB1*, TAESB2*, TAESB3*, TASC1*
C- **TMSB*, TM5HC*, TMWW*, 17RMDT* SPARE 1*, SPARE 2*, SPARE 3***
D- **35LCP1***

ALD-08047
A- TAE1*, TAS1*, TAC1*, TAC2*
B- TAESB1*, TAESB2*, TAESB3*, TASC1*
C- **TMSB*, TM5HC*, TMWW*, 17RMDT* SPARE 1*, SPARE 2*, SPARE 3***
D- **35LCP1***

TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA

TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA

DB DB DB

NOTES:

1. SEE SHEETS E–001 & EL001 FOR GENERAL ELECTRICAL NOTES AND LEGEND.

MATCH LINE SEE SHEET EL120

MATCH LINE SEE SHEET EL122

VSR

FAA–257

FO

TOFA

TSA

TME2*

TME1

TME4

TMS1

TM5HC*

EMH–8043

EMH–8042

ALD–08046

ALD–08043

ALD–08042

ALD–08043A

DB

128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00 136+00 137+00

**ALD–08046**

A– TAE1*, TAS1*, TAC1*, TAC2*
B– TAESB1*, TAESB2*, TAESB3*, TASC1*
**C– TMSB*, TM5HC*, TMWW*, 17RMDT* SPARE 1*, SPARE 2*, SPARE 3***
**D– 35LCP1***

**ALD–08043A**

**A– 35LTDZ*, TME4*, TMSB*, TMWW*, 17RMDT* SPARE 1*, SPARE 2*, SPARE 3***
B– TMS1*

**ALD–08043**

A– TAE1*, TAS1*, TAC1*, TAC2*
B– TAESB1*, TAESB2*, TAESB3*, TASC1*
**C– TM5HC*, 35LTDZ*, TMSB*, TMWW*, 17RMDT* SPARE 1*, SPARE 2*, SPARE 3***
**D– 35LCP1***

MATCH LINE SEE SHEET EL105

NORTH

40' 20' 0 40'

KEY PLAN

HURON

17L

17R

35L

35R

COLORADO LICENSED
TYRON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

ELECTRICAL NEW PLAN (21 OF 29)

SHEET NO. EL121
243 OF 396

CADD FILE NO. _201735882-B1EELP-1220

D:\dropbox (lean photometrics)\active projects\16718010 rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELP-1220.dwg Feb 12, 2019 – 5:17pm Kat

NOTES:

1. SEE SHEETS E–001 & EL001 FOR GENERAL ELECTRICAL NOTES AND LEGEND.

MATCH LINE SEE SHEET EL123

MATCH LINE SEE SHEET EL125

FAA–260

+00 158+00 159+00 160+00 161+00 162+00 163+00 164+00 165+00 166+00

TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA TOFA

TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA TSA

DB DB DB

NOTES:

1. SEE SHEETS E–001 & EL001 FOR GENERAL ELECTRICAL NOTES AND LEGEND.

MATCH LINE SEE SHEET EL121

MATCH LINE SEE SHEET EL123

MATCH LINE SEE SHEET EL106

VSR

TOFA

TSA

DB

FAA–258

EMH–8037

EMH–08035

TAXIWAY L1

TME2*

TME4

TME4*
TME2*
TMS1*

TMS1*
TME2*

TMC1*

TMC1

TME2

TMC2

BG

138+00 139+00 140+00 141+00 142+00 143+00 144+00 145+00 146+00 147+00

**ALD–08042**

A– TAE1*, TAS1*, TAC1*, TAC2*
B– TAESB1*, TAESB2*, TAESB3*, TASC1*
**C– TM5HC*, 35LTDZ*, TMSB*, TMWW*, 17RMDT* SPARE 1*, SPARE 2*, SPARE 3***
**D– 35LCP1***

**ALD–08035**

A– SPARE
B– TAE1*, TAS1*, TAC1*, TAC2*
C– TMC1*, TM5HC*
D– TME1*, TMS1*, TMS2*
**E– 35LTDZ*, TMSB*, TMWW*, 17RMDT* 35LE* SPARE 1*, SPARE 2*, SPARE 3***
**F– 35LCP1* (2 PAIR, 4 WIRES TOTAL)**

**ALD–08035A**

A– SPARE
B– SPARE
**C– TMWW*,17RMDT*, TMSB*, 35LE*, TMS2***
**D– 35LCP1***

**ALD–08037**

A– SPARE
B– TAE1*, TAS1*, TAC1*, TMS2*, TME2*, TAC2*
C– TMC1*, TM5HC*
D– TME1*
**E– 35LTDZ*, TMSB*, TMS1*, TMWW*, 17RMDT* SPARE 1*, SPARE 2*, SPARE 3***
**F– 35LCP1***

NORTH

40' 20' 0 40'

KEY PLAN

HURON

17R

35L

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

ELECTRICAL NEW PLAN (22 OF 29)

SHEET NO. EL122 245 OF 396

CADD FILE NO. _201735882-B1EELP-1220

COLORADO LICENSED
TERON LEA
52246
2/15/19
PROFESSIONAL ENGINEER

D:\dropbox (lean photometrics)\active projects\15718\01a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELP-1220.dwg Feb 12, 2019 – 5:18pm Kat

NOTES:

1. SEE SHEETS E–001 & EL001 FOR GENERAL ELECTRICAL NOTES AND LEGEND.

MATCH LINE SEE SHEET EL122

MATCH LINE SEE SHEET EL124

148+00 149+00 150+00 151+00 152+00 153+00 154+00 155+00 156+00 157

ALD–08035

A– SPARE
B– TAE1*, TAS1*, TAC1*, TAC2*
C– TMC1*, TM5HC*
D– TME1*, TMSB*, TMS1* TMS2*
**E– 35LTDZ*, 35LE*, TMWW*, 17RMDT***
**SPARE 1*, SPARE 2*, SPARE 3***
**F– 35LCP1* (2 PAIR, 4 WIRES TOTAL)**

ALD–08034

A– SPARE
B– TAE1*, TAS1*, TAC1*, TAC2*
C– TMC1*, TM5HC*
D– TME1*, TMSB*, TMS2*
**E– 35LTDZ*, TMS1*, TMWW*, 17RMDT***
**SPARE 1*, SPARE 2*, SPARE 3***
**F– 35LCP1* (2 PAIR, 4 WIRES TOTAL)**

ALD–08033

A– SPARE
B– TAE1*, TAS1*, TAC1*, TAC2*
C– TMC1*, TM5HC*
D– TME1*, TMSB*, TMS2*
**E– 35LTDZ*, TMS1*, TMWW*, 17RMDT***
**SPARE 1*, SPARE 2*, SPARE 3***
**F– 35LCP1***

TOFA TSA DB TME2 EMH–8034 EMH–8033

MATCH LINE SEE SHEET EL107

NORTH

40' 20' 0 40'

KEY PLAN

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

ELECTRICAL NEW PLAN (23 OF 29)

SHEET NO. EL123
246 OF 396

CADD FILE NO. _201735882-B1EELP-1220

COLORADO LICENSED TERON LEAN 52246 2/15/19 PROFESSIONAL ENGINEER

Feb 12, 2019 – 5:18pm Kat

D:\dropbox (lean photometrics)\active projects\15718019 rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELP-1220.dwg

NOTES:

1. SEE SHEETS E-001 & EL001 FOR GENERAL ELECTRICAL NOTES AND LEGEND.

MATCH LINE SEE SHEET EL124

MATCH LINE SEE SHEET EL126

167+00 168+00 169+00 170+00 171+00 172+00 173+00 174+00 175+00 176+00

**ALD-08031**

A– SPARE
B– SPARE
C– TAE1*, TAC1*, TAS1*, TAC2*
D– TME1*
**E– 35LE*, 35LTDZ*, TMWW*, 17RMDT* SPARE 1*, SPARE 2*, SPARE 3***
F– TMC1*, TM5HC*
G– TMS1*, TMSB*, TMS2*
**H– 35LCP1***

**ALD-08030**

A– SPARE
B– SPARE
C– TAE1*, TAC1*, TAS1*, TAC2*
D– TME1*
**E– 35LE*, 35LTDZ*, TMWW*, 17RMDT* SPARE 1*, SPARE 2*, SPARE 3***
F– TMC1*, TM5HC*
G– TMS1*, TMSB*, TMS2*
**H– 35LCP1***

**ALD-08027A**

A– SPARE
**B– TMWW*, 17RMDT* TME2*, TMSB*, TMS2***

**ALD-08027**

A– SPARE
B– SPARE
C– TAE1*, TAC1*, TAS1*, TAC2*
D– TME1*
**E– 35LE*, 35LTDZ*, TMWW*, 17RMDT* SPARE 1*, SPARE 2*, SPARE 3***
F– TMC1*, TM5HC*
G– TMS1*, TMSB*, TMS2*
**H– 35LCP1***

TOFA TSA DB TME2 TMS1 EMH-8030 EMH-8027

ALD-08031 ALD-08030 ALD-08027A ALD-08027

MATCH LINE SEE SHEET EL109

NORTH

40' 20' 0 40'

KEY PLAN

HURON 17R 35L

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

ELECTRICAL NEW PLAN (25 OF 29)

SHEET NO. EL125 247 OF 396

CADD FILE NO. _201735882-B1EELP-1220

COLORADO LICENSED AARON LEAN 52246 2/15/19 PROFESSIONAL ENGINEER

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NOTES:

1. SEE SHEETS E-001 & EL001 FOR GENERAL ELECTRICAL NOTES AND LEGEND.

MATCH LINE SEE SHEET EL125

MATCH LINE SEE SHEET EL127

MATCH LINE SEE SHEET EL110

FID

FAA-261

FO

ALD-02541
A- TKS1*, TLE1*, TLS1*, TKE1*
B- SPARE

EMH-02541

TLE1
TLS1

TOFA

TSA

177+00 178+00 179+00 180+00 181+00 182+00 183+00 184+00 185+00 186+00

ALD-08025
A- SPARE
B- SPARE
C- SPARE
D- SPARE
E- TAE1*, TAC1*, TAS1*, TAC2*
F- TME1*, TME2*
**G- 35LE*, 35LTDZ*, TMWW*, 17RMDT***
**SPARE 1*, SPARE 2*, SPARE 3***
H- TMC1*, TMC2*, TM5HC*, TM6HC*, TMS2*
I- TMSB*, TMS2*, TMS1*
**J- 35LCP1***

ALD-08027
A- SPARE
B- SPARE
C- TAE1*, TAC1*, TAS1*, TAC2*
D- TME1*
**E- 35LE*, 35LTDZ*, TMWW*, 17RMDT***
**SPARE 1*, SPARE 2*, SPARE 3***
F- TMC1*, TM5HC*
G- TMS1*, TMSB*, TMS2*
**H- 35LCP1***

ALD-08026
A- SPARE
B- SPARE
C- TAE1*, TAC1*, TAS1*, TAC2*
D- TME1*, TME2*
**E- 35LE*, 35LTDZ*, TMWW*, 17RMDT***
**SPARE 1*, SPARE 2*, SPARE 3***
F- TMC1*, TMC2*, TM5HC*, TM6HC*
G- TMS1*, TMSB*, TMS2*, TM6SB1*
**H- 35LCP1***

ALD-08025

TMS2
TME2
TMC2
TYP
DB

EMH-08025

TAXIWAY C

EMH-08026

TM6HC

TCDB-08403

TME2

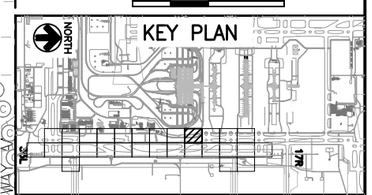
TM6HC*

TMC2*

NORTH

40' 20' 0 40'

KEY PLAN




COLORADO LICENSED
DARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE
AS INDICATED

DATE
FEBRUARY 15, 2019

DRAWN BY:
KV

CHECKED BY:
JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO.
201735882

CONST. CONTRACT NO.
201846271

VOLUME NO.

SHEET TITLE

ELECTRICAL NEW PLAN (26 OF 29)

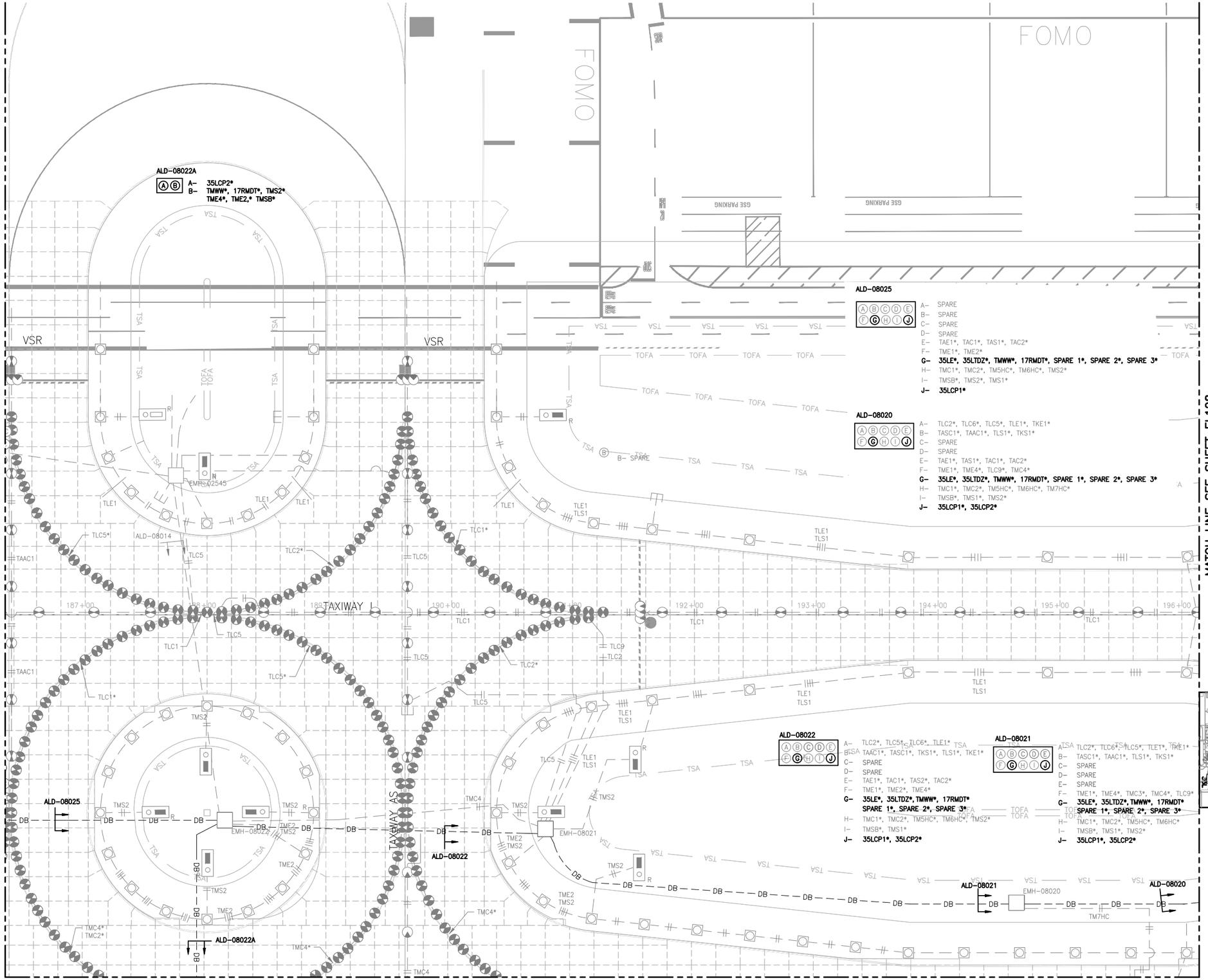
SHEET NO.
EL126
248 OF 396

CADD FILE NO.
_201735882-B1EELP-1220

D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELP-1220.dwg Feb 12, 2019 - 5:19pm Kat

NOTES:

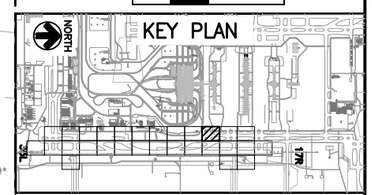
1. SEE SHEETS E-001 & EL001 FOR GENERAL ELECTRICAL NOTES AND LEGEND.




NORTH

40' 20' 0 40'

KEY PLAN



COLORADO LICENSED
TYSON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
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| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE
AS INDICATED

DATE
FEBRUARY 15, 2019

DRAWN BY:
KV

CHECKED BY:
JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO.
201735882

CONST. CONTRACT NO.
201846271

VOLUME NO.

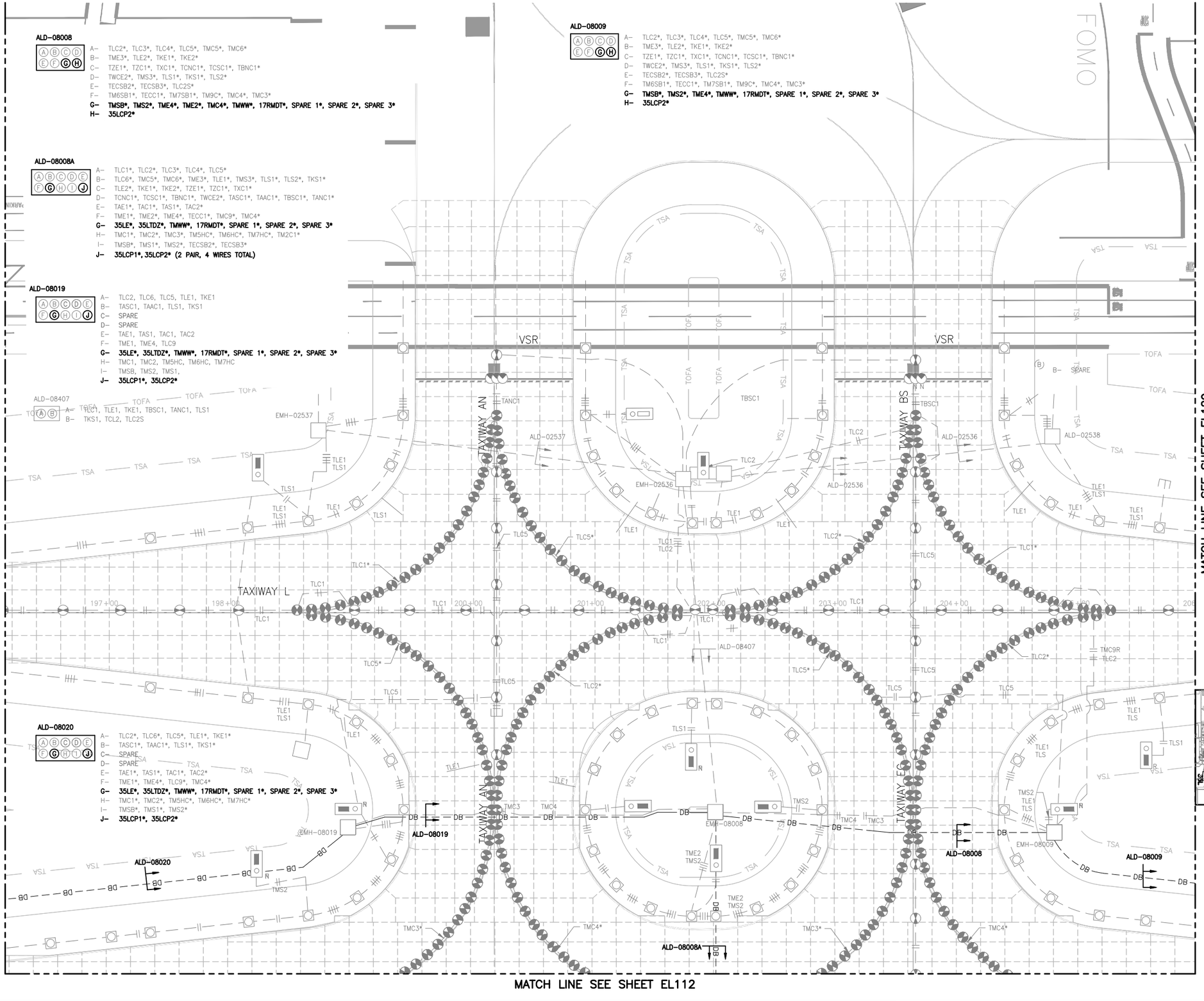
SHEET TITLE

ELECTRICAL NEW PLAN (27 OF 29)

SHEET NO.
EL127
249 OF 396

CADD FILE NO.
_201735882-B1EELP-1220

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NOTES:

1. SEE SHEETS E–001 & EL001 FOR GENERAL ELECTRICAL NOTES AND LEGEND.

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

ELECTRICAL NEW PLAN (28 OF 29)

SHEET NO. EL128 250 OF 396

CADD FILE NO. _201735882-B1EELP-1220

COLORADO LICENSED TYRON LEA 52246 2/15/19 PROFESSIONAL ENGINEER

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NOTES:

1. SEE SHEETS E-001 & EL001 FOR GENERAL ELECTRICAL NOTES AND LEGEND.

MATCH LINE SEE SHEET EL128

CTC RAMP

CTC RAMP

OMO

ALD-08011

A= TLC2, TLC3, TLC4, TLC5, TMC5, TMC6
B= TME3, TMC4, TLE1, TLE2, TKE1, TKE2
C= TZE1, TZC1, TXC1, TCNC1, TCSC1, TBNC1
D= TWCE2, TMS3, TLS1, TKS1, TLS2, TXC1
E= SPARE
F= SPARE
G= SPARE
H= TMS2, TME2, TMC3, TMC4

TAXIWAY L

ALD-08009

A= TLC2*, TLC3*, TLC4*, TLC5*, TMC5*, TMC6*
B= TME3*, TLE2*, TKE1*, TKE2*
C= TZE1*, TZC1*, TXC1*, TCNC1*, TCSC1*, TBNC1*
D= TWCE2*, TMS3*, TLS1*, TKS1*, TLS2*
E= TECSB2*, TECSB3*, TLC2S*
F= TM6SB1*, TECC1*, TM7SB1*, TM9C1*, TMC4*, TMC3*
**G= TMSB*, TMS2*, TME4*, TMWW*, 17RMDT*, SPARE 1*, SPARE 2*, SPARE 3***
**H= 35LCP2***

ALD-08010

A= TLC2*, TLC3*, TLC4*, TLC5*, TMC5*, TMC6*
B= TME3*, TLE2*, TKE1*, TKE2*
C= TZE1*, TZC1*, TXC1*, TCNC1*, TCSC1*, TBNC1*
D= TWCE2*, TMS3*, TLS1*, TKS1*, TLS2*
E= TECSB2*, TECSB3*, TLC2S*
F= TM6SB1*, TECC1*, TM7SB1*, TM9C1*, TMC4*, TMC3*
**G= TMSB*, TMS2*, TME4*, TMWW*, 17RMDT*, SPARE 1*, SPARE 2*, SPARE 3***
**H= 35LCP2***

ALD-08011A

A= TZE1*, TZC1*, TXC1*, TCNC1*, TCSC1*, TBNC1*
B= TECSB1*, TECSB2*, TECSB3*, TME4*
**C= TMC9*, TMSB*, TMS2*, TMWW*, 17RMDT***
D= TECC1*, TMC3*, TLC2S*
**E= 35LCP2***

EMH-08011

EMH-08010

ALD-08009

ALD-08010

ALD-08011

ALD-08011A

MATCH LINE SEE SHEET EL113

NORTH

40' 20' 0 40'

KEY PLAN

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CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

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SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

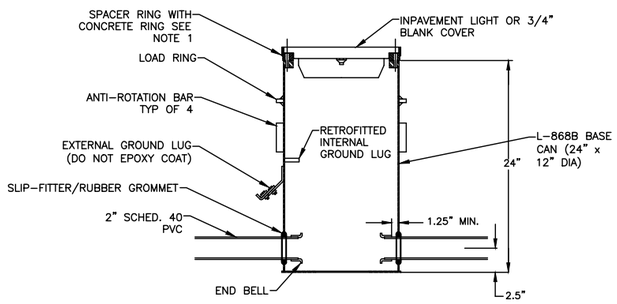
ELECTRICAL NEW PLAN (29 OF 29)

SHEET NO. EL129

251 OF 396

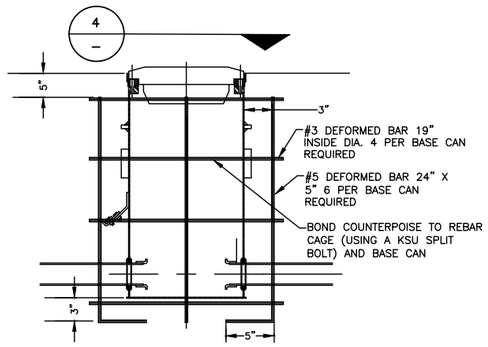
CADD FILE NO. _201735882-B1EELP-1220

COLORADO LICENSED
BRYON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

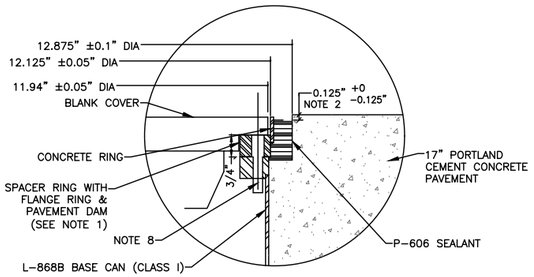



NOTE:
AT THICKENED CONCRETE PANEL EDGES AS SHOWN ON DRAWING, INSTALL 26" DEEP BASE CANS AT NO ADDITIONAL COST.

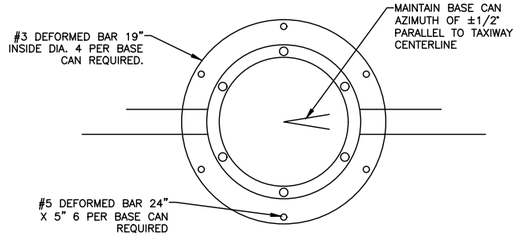
1 – TYPICAL L-868B 24" DEEP BASE CAN
NOT TO SCALE



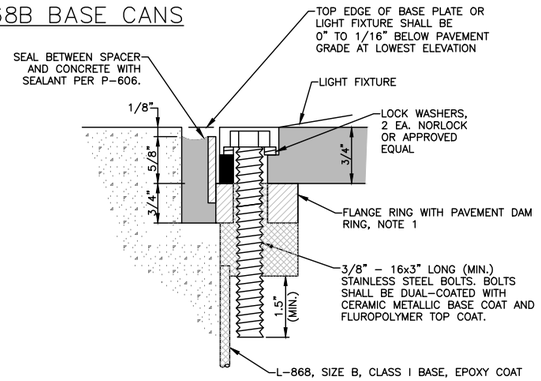

2 – REBAR DETAIL FOR ALL L-868B BASE CANS
NOT TO SCALE



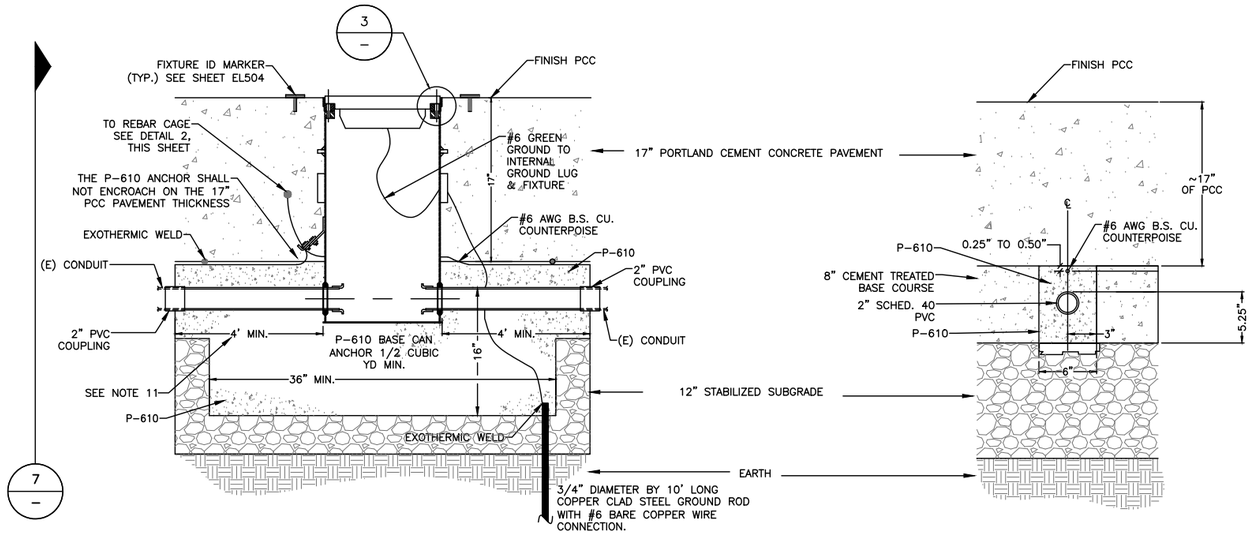

3 – DETAIL
NOT TO SCALE




4 – SECTION
NOT TO SCALE




5 – DETAIL A
NOT TO SCALE




6 – TYPICAL INSTALLATION DETAIL FOR NEW OR REINSTALLED INPAVEMENT FIXTURE ON NEW L-868B BASE CAN IN NEW PAVEMENT
NOT TO SCALE

NOTES:
* CONTRACTOR SHALL EXCAVATE AS REQUIRED TO REMOVE EXISTING BASE CAN

7 – CONDUIT INSTALLATION IN NEW PANEL (SECTION)
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. THE SPACER RING IS DESIGNED AS A NOMINAL 0.75" THICKNESS. THE SPACER RING MAY BE REQUIRED TO BE THINNER OR THICKER DEPENDING ON BASE CAN INSTALLATION AND PAVING TECHNIQUES. THIS CONTRACTOR SHALL BE RESPONSIBLE TO MEASURE AND DETERMINE THE EXACT REQUIRED THICKNESS OF EACH INDIVIDUAL SPACER RING REQUIRED TO PUT THE AIRFIELD LIGHTING FIXTURE AT THE CORRECT ELEVATION, AZIMUTH AND ROTATION PER FAA ADVISORY CIRCULAR 150/5345-46 LATEST EDITION. THE CONTRACTOR'S BID PRICE SHALL INCLUDE FURNISHING AND INSTALLING ALL SPACER RINGS. BASE CANS, SPACER RINGS AND FLANGE RING SHALL BE GALVANIZED. EPOXY COATING NOT REQUIRED.
2. THE P-606 SEALER SHALL FILL THE VOID TO WITHIN 0.125" OF THE TOP EDGE OF THE CONCRETE RING AT THE LOWEST CONCRETE ELEVATION. ANY OVER POURS SHALL BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
3. ALL BASE CAN INSTALLATION TECHNIQUES, METHODS, MATERIALS, ETC. SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK.
4. IMMEDIATELY AFTER THE HOLES ARE CORED IN THE CEMENT TREATED BASE COURSE, THE BASE CANS SHALL BE INSTALLED AND THE P-610 PLACED SO AS TO PREVENT WATER FORM ENTERING THE STABILIZED SUBGRADE.
5. BEFORE PAVING MAY PROCEED, THE CONTRACTOR SHALL DEMONSTRATE TO THE DIA PROJECT MANAGER BY SURVEY THAT THE BASE CANS ARE AT THE CORRECT ELEVATION, AZIMUTH AND ROTATION AND THAT THE PROPER CLEARANCE EXISTS BETWEEN THE BASE CAN AND THE PAVING TRAIN.
6. THE FINISHED PAVEMENT SURFACE SHALL BE PROTECTED FROM FOREIGN SUBSTANCES WHICH WOULD CAUSE STAINING, I.E.. OIL, P-605, ETC. THE CONTRACTOR SHALL IMMEDIATELY CLEAN ALL SPILLS AND CORRECT/CLEAN ANY STAINED SURFACES AT THE CONTRACTORS EXPENSE.
7. USE ACETATE RESISTANT, CONDUCTIVE SEALANT BETWEEN ADAPTER/SPACE RINGS. ALSO, USE BETWEEN ADAPTER/SPACER RING AND BASE CAN. DO NOT INSTALL EXCESSIVE AMOUNTS OF SEALANT. THE SEALANT SHALL NOT ACT A BARRIER BETWEEN THE SPACER RING(S) AND BASE CAN AND ADAPTER RING AND FLANGE RING. METAL TO METAL CONTACT SHALL BE MAINTAINED BETWEEN THE BASE CAN, SPACER RING(S) AND ADAPTER RING AND FLANGE RING.
8. THE FIXTURE MOUNTING BOLTS SHALL EXTEND THROUGH THE BASE CAN MOUNTING FLANGE INTO THE BASE CAN A MINIMUM OF 1 1/2". THE BOLTS SHALL HAVE ENOUGH THREAD LENGTH SO THEY DO NOT SHOULDER OUT BEFORE THE FIXTURE IS SECURELY TIGHTENED. THE BOLTS SHALL BE TORQUE PER THE MANUFACTURERS RECOMMENDATIONS. THE BOLTS SHALL BE SUPPLIED WITH CEC LOCK WASHERS.
9. THE NUMBER OF HUBS FOR A BASE CAN SHALL BE AS SHOWN ON THE PLANS.
10. BACKFILL UNDER TURF SHALL BE NATIVE MATERIAL COMPACTED PER P-152. BACKFILL UNDER PAVED AREAS SHALL BE FLOWABLE FILL (P-162) WITH RED DYE.
11. IF 4' REQUIRES REMOVAL OF ANOTHER PANEL, CONTRACTOR MAY FIELD ADJUST TRENCH TO ALLOW FOR CONDUIT PER DENVER CONTRACT MANAGER.




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LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | ADDENDUM 2 | 1/17/19 | DL |
| 5 | LE | CONSTRUCTION | 2/15/19 | DL |

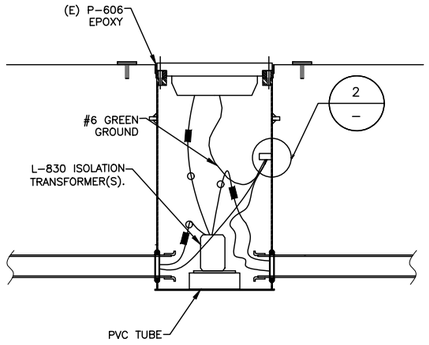
SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: ELECTRICAL DETAIL 1
SHEET NO. EL501

CADD FILE NO. _201735882-B1EELD-5249

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NOTES:

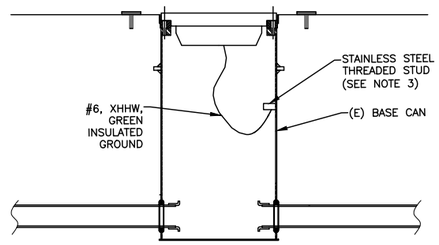
1. SEE SHEETS E-001 & EL001 FOR GENERAL ELECTRICAL NOTES AND LEGEND.




NOTES:

1. CONTRACTOR MUST CORE AND REMOVE (E) EPOXY & SPACER PACKAGE. REFER TO DETAIL(S) ON EL503. ASSUME 14" CORE FOR BIDDING BUT CONFIRM EXISTING EPOXY WIDTH OF EACH CAN, EXISTING DIMENSION SHOULD BE APPROXIMATELY 3/8". REMOVE SPACER RINGS AND FLANGE RING.
2. INSTALL (N) TRANSFORMER, (N) SPACER RINGS, (N) CABLE, AND ALL ACCESSORIES.
3. CONTRACTOR MUST ASSUME THAT AS LEAST (2) (N) SPACER RINGS AND ONE SPACER RING WITH PAVEMENT DAM SHALL BE INSTALLED. (USE THESE QUANTITIES FOR BIDDING PURPOSES). CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE FIXTURE ELEVATION IS CORRECT AND PASSING PHOTOMETERICS.
4. INSTALL (N) #6 GREEN GROUND WIRE BETWEEN LIGHT FIXTURE AND BASE CAN. IF REQUIRED RETROFIT BASE CAN WITH GROUND LUG AS PER DETAIL 2 THIS SHEET. ASSUME EACH LIGHT NEEDS RETROFITTING FOR BIDDING PURPOSES.

1 / – NEW OR REINSTALLED INPAVEMENT LIGHT ON EXISTING BASE CAN
NOT TO SCALE




NOTES:

1. LENGTH OF #6 INSULATED GROUND CONDUCTOR SHALL BE OF SUFFICIENT LENGTH TO ALLOW THE INSET LIGHT FIXTURE OR BASE PLATE TO BE EASILY SET ASIDE WITHOUT REMOVAL.
2. VACUUM OUT ANY DEBRIS AND METAL SHAVINGS FROM THE BOTTOM OF THE CAN.
3. INSTALL A 3/8" STAINLESS STEEL THREADED STUD BY MEANS OF AN ARC STUD WELDING GUN, HBS A12 OR APPROVED EQUAL. AFTER WELDING THE STUD, THE CONTRACTOR SHALL COLD GALVANIZE THE INSIDE WALL OF THE BASE CAN AROUND THE STUD WELD. INSTALL COMPRESSION TERMINAL ON XHHW TO CONNECT TO STUD. PROVIDE BURNDY YA6CTC38 OR APPROVED EQUAL.
4. CONTRACTOR SHALL ASSUME THAT ALL BASE CANS REQUIRE GROUND LUG RETROFIT. COST FOR THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT WITH NO SEPARATE PAYMENT.

2 / – RETROFIT EXISTING BASE CAN DETAIL
NOT TO SCALE




CITY & COUNTY of DENVER

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RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

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VOLUME NO.

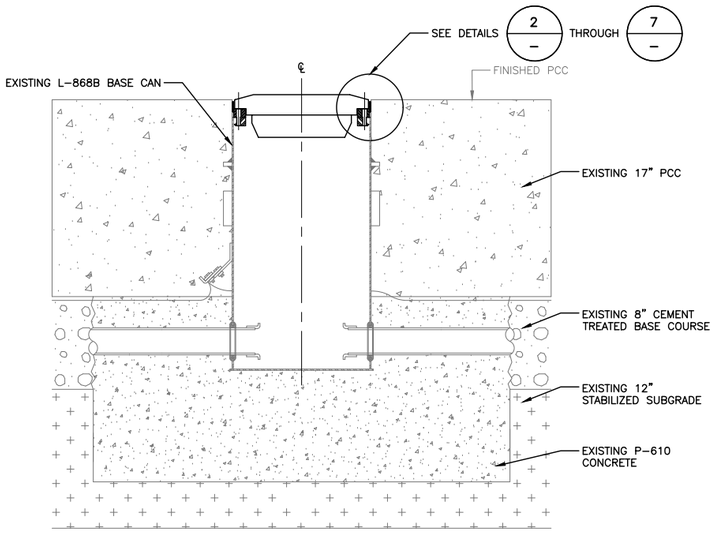
SHEET TITLE: ELECTRICAL DETAIL 2

SHEET NO. EL502
253 OF 396

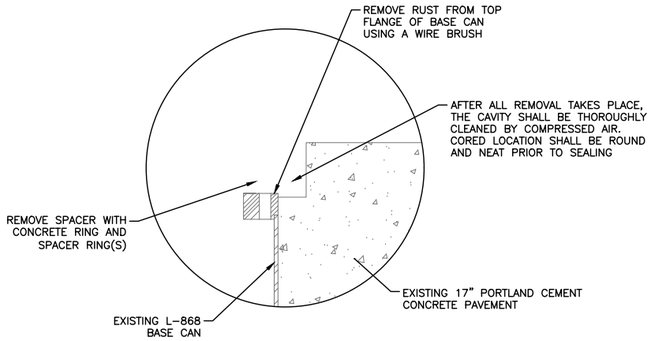
CADD FILE NO. _201735882-B1EELD-5249

Feb 12, 2019 – 5:20pm Kat

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1/– REPAIR OF EPOXY SEALANT AROUND LIGHT CANS
NOT TO SCALE



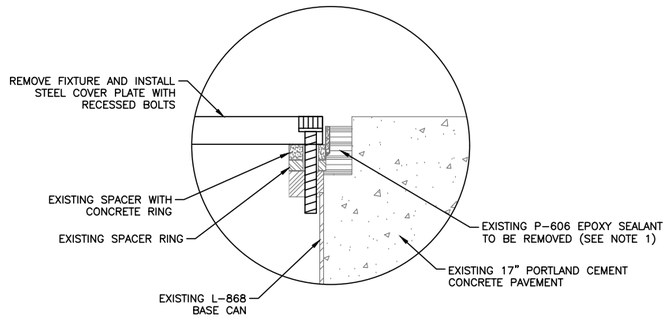

4/– EPOXY REMOVAL (STEP 3) DETAIL
NOTE TO SCALE

NOTES:

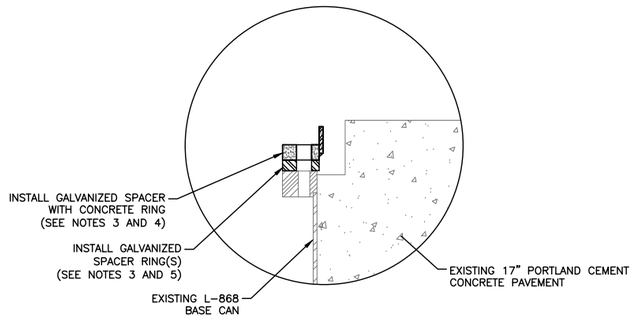
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

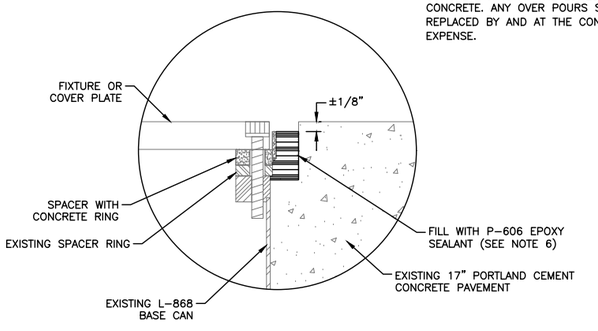
1. PRIOR TO ANY EPOXY SEALANT REMOVAL, THE CONTRACTOR SHALL COORDINATE WITH THE DEN PROJECT MANAGER FOR LOCATIONS WHERE EPOXY SEALANT AROUND BASE CANS WILL TAKE PLACE.
2. THE CONTRACTOR SHALL USE A TEMPLATE THAT WILL PROTECT EXISTING PAVEMENT TO REMAIN AND SHALL BE APPROVED BY THE DEN PROJECT MANAGER.
3. GALVANIZED STEEL SPACER WITH CONCRETE RING, GASKET O-RING, AND SPACER RING(S) SHALL BE PROVIDED NEW ON BASE CANS WHERE EPOXY REMOVAL TAKES PLACE. WHEN THERE IS LESS THAN 1/4" MINIMUM OF SPACE BETWEEN TOP OF EXISTING BASE CAN FLANGE AND FINISHED GRADE, THE CONTRACTOR WILL BE ALLOWED TO USE A NON-GASKET SPACER WITH CONCRETE RING TO INSTALL THE FIXTURE AT THE PROPER ELEVATION.
4. COAT O-RING WITH DOW CORNING 111 VALVE LUBRICANT AND SEALANT OR APPROVED EQUAL. PLACE DOW CORNING 111 OR APPROVED EQUAL BETWEEN FIXTURE AND FLANGE WITH CONCRETE RING. ALL FLANGE RINGS WITH OR WITHOUT O-RING WILL REQUIRE DOW 111 OR APPROVED EQUAL TO BE APPLIED.
5. PLACE SUREBOND EVERFLEX SB-1800 COLD WEATHER SEALANT OR APPROVED EQUAL BETWEEN EACH SPACER RING AND TOP FLANGE OF BASE CAN. DO NOT INSTALL EXCESSIVE AMOUNT OF SEALANT AND DO NOT INSTALL SEALANT IN BASE CAN BOLT HOLES.
6. THE P-606 SEALER SHALL FILL THE VOID TO BE FLUSH WITH THE CONCRETE RING OR WITHIN 0.125" BELOW THE TOP EDGE OF THE CONCRETE RING AT THE LOWEST POINT OF THE CONCRETE. ANY OVER POURS SHALL BE REPLACED BY AND AT THE CONTRACTOR'S EXPENSE.



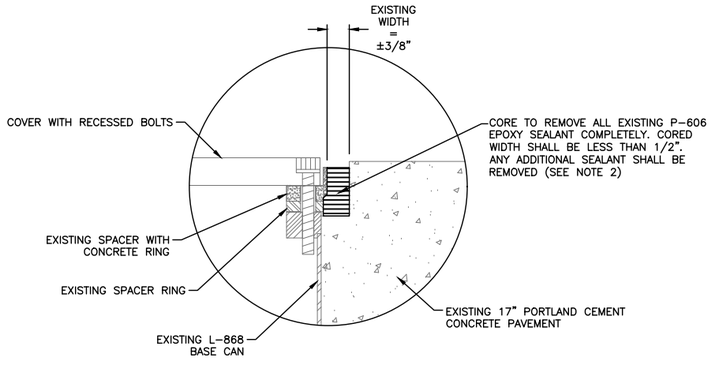

2/– EPOXY REMOVAL (STEP 1) DETAIL
NOT TO SCALE



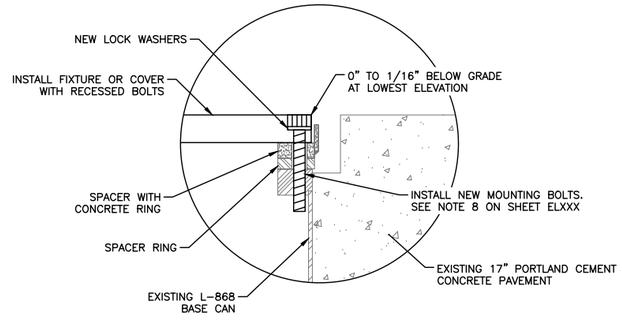

5/– EPOXY REMOVAL (STEP 4) DETAIL
NOT TO SCALE




7/– EPOXY REMOVAL (STEP 6) DETAIL
NOT TO SCALE




3/– EPOXY REMOVAL (STEP 2) DETAIL
NOT TO SCALE




6/– EPOXY REMOVAL (STEP 5) DETAIL
NOT TO SCALE

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

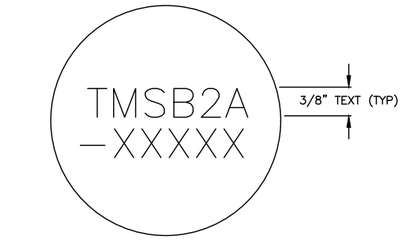
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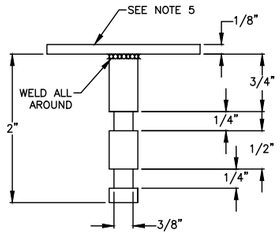
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DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: ELECTRICAL DETAIL 3
SHEET NO. EL503
254 OF 396
CADD FILE NO. _201735882-B1EELD-5249

COLORADO LICENSED
DORON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

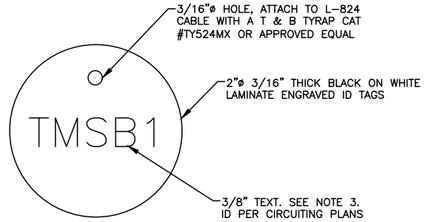
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1 — TYPICAL ID TEXT
NOT TO SCALE




4 — SECTION
NOT TO SCALE



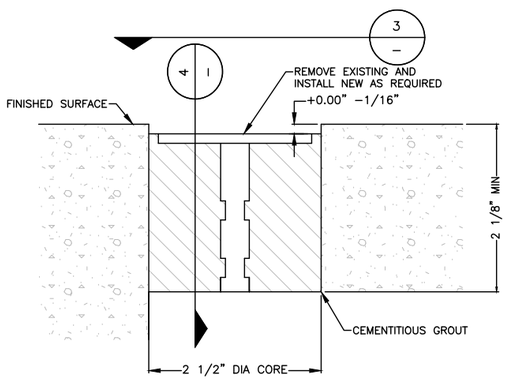

7 — TYPICAL L–824 CABLE ID TAG
NOT TO SCALE

NOTES:

1. SEE SHEETS E–001 & EL001 FOR GENERAL ELECTRICAL NOTES AND LEGEND.

SHEET NOTES:

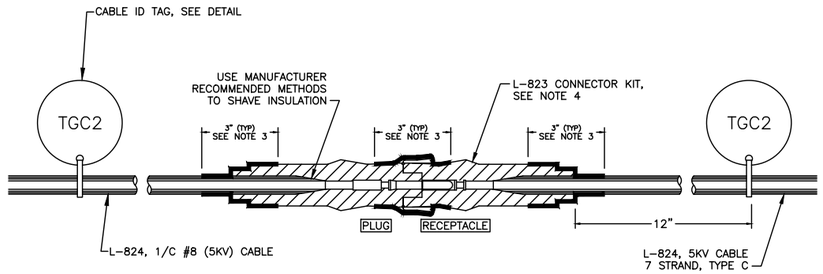
1. L–823 CONNECTORS SHALL BE INSTALLED ON ALL CABLES, BASE CAN, OR OTHER ACCESSIBLE LOCATIONS EXCEPT AS MODIFIED BELOW: CONNECTORS ARE NOT REQUIRED IN CABLES PASSING THROUGH A LIGHT BASE WITH A FIXTURE AND NOT FEEDING THAT FIXTURE. THESE CABLES SHALL HAVE THE REQUIRED SLACK AND CABLE ID TAGS IN EACH BASE CAN. CONNECTORS ARE REQUIRED IN ALL CABLES IN ALL LIGHT BASE CANS THAT ARE USED ONLY AS PULL–CANS (WITH NO FIXTURES).
2. ONLY THE LAST FIXTURE IN CIRCUIT SHALL BE CONNECTED TO THE RETURN LEAD (WHITE STRIPED CONDUCTOR) OF THE CCR.
3. ALL L–824 CABLES SHALL BE IDENTIFIED WITH A BLACK ON WHITE LAMINATE FACTORY ENGRAVED ID TAG WITH ITS RESPECTIVE CIRCUIT/LOOP NUMBER AT ALL ACCESSIBLE LOCATIONS. ATTACH THE ID TAG 12" FROM THE L–823 CONNECTORS, OR MIDLOOP IF NO CONNECTORS ARE REQUIRED. THE LOOPS SHALL BE IDENTIFIED ON EACH SIDE OF THE L–823 CONNECTORS.
4. ALL BASE CAN AND DUCT BANK COUNTERPOISE CONDUCTORS SHALL BE EXOTHERMICALLY WELDED TO THE EXISTING COUNTERPOISE SYSTEM.
5. BRASS ID MARKER TO BE INSTALLED ON OPPOSITE SIDE OF STRIPING ON SINGLE CIRCUIT FIXTURES.




NOTE:

1. INSTALL ID MARKERS BY DRILLING IN AFTER CONCRETE HAS SET.

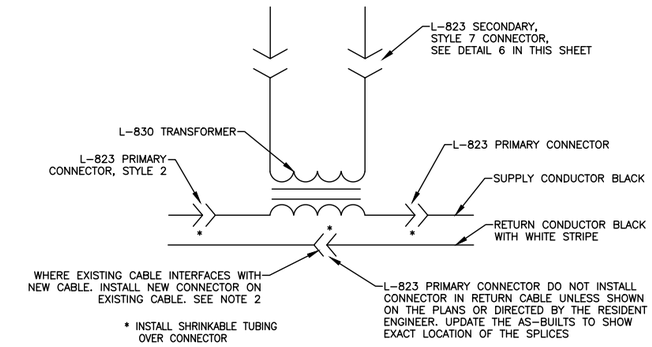
2 — AIRFIELD LIGHTING FIXTURE ID MARKER
NOT TO SCALE




NOTES:

1. THE CABLE SHALL BE THOROUGHLY CLEANED PRIOR TO THE INSTALLATION OF THE L–823 CONNECTOR KIT.
2. INSTALLATION OF THE PIN/RECEPTACLE SHALL BE COMPLETED WITH "CRIMPING" TOOL SUPPLIED OR RECOMMENDED BY THE MANUFACTURER AND DESIGNED FOR THIS SPECIFIC PURPOSE.
3. ALL FIELD MADE JOINTS SHALL BE WRAPPED WITH 3" OF SCOTCH SUPER 88 TAPE, OR APPROVED EQUAL, 1 1/2" ON EACH SIDE OF JOINT AND HALF LAPPED.
4. PROVIDE CONNECTOR KITS THAT INCLUDE AN INTEGRAL FLAP/BOOT TO SEAL THE JOINT BETWEEN THE PLUG AND RECEPTACLE. WRAP JOINT WITH SCOTCH SUPER 88 TAPE OR APPROVED EQUAL.
5. CONTRACTOR SHALL REMOVE AMERACE CABLE SPREADER PRIOR TO INSTALLATION OF CABLE TO CONNECTOR.
6. SPLICE THE RETURN CONDUCTOR IF IN SAME CONDUIT WITH THE SUPPLY CONDUCTOR AT FIXTURE LOCATIONS ENDING WITH 5 OR 0. CONTRACTOR SHALL SPLICE ONLY WHEN REQUIRED. LOCATIONS OF RETURN SPLICE ARE TO BE AS–BUILT.

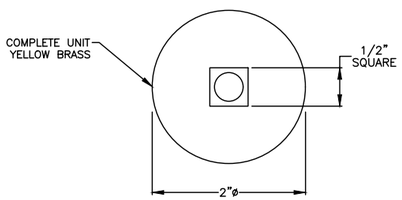
5 — TYPICAL L–824 (5KV) CABLE CONNECTOR DETAIL
NOT TO SCALE



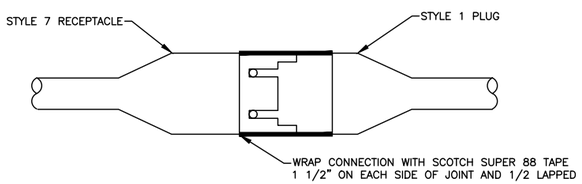

NOTES:

1. DO NOT USE HEAT SHRINK TUBING ON THE SECONDARY OF THE L–830 TRANSFORMER WHEN CONNECTED TO AN ELEVATED FIXTURE.
2. BOLD INFORMATION IS NEW. SCREENED INFORMATION IS EXISTING.

8 — TYPICAL LIGHTING CONNECTION SCHEMATIC IN BASE CAN
NOT TO SCALE




3 — TOP VIEW
NOT TO SCALE




NOTE:

1. CONTRACTOR SHALL INSTALL TAPE ON CONNECTION BETWEEN THE SECONDARY OF ISOLATION TRANSFORMER AND EXTENSION LEAD FOR SIGNS, INSET FIXTURES, AND BRITE UNITS.

6 — INPAVEMENT FIXTURE SECONDARY CONNECTOR DETAIL
NOT TO SCALE




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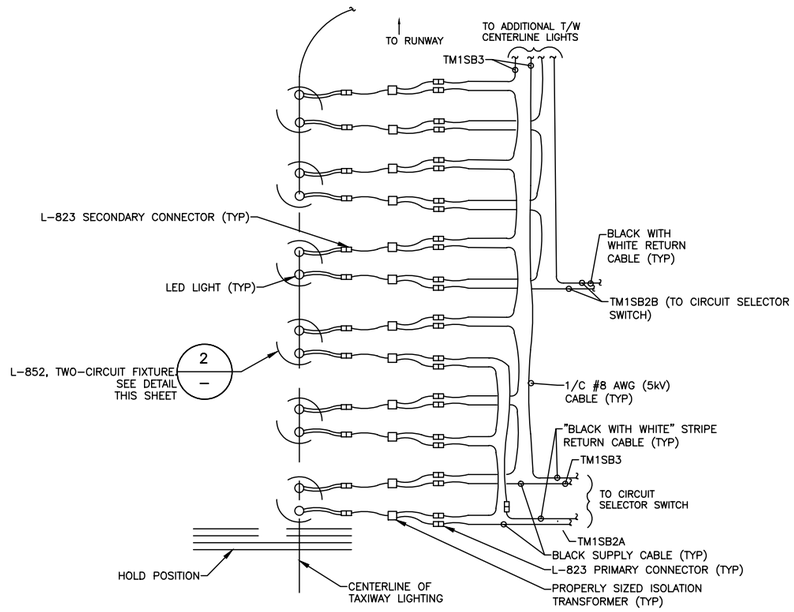
# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

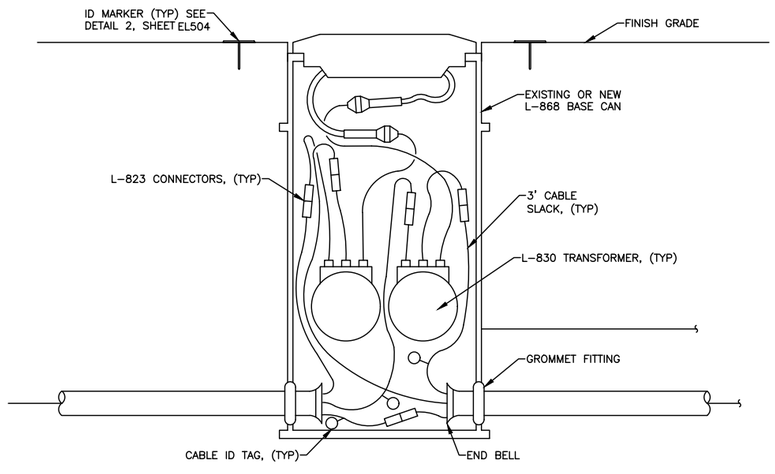
SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: ELECTRICAL DETAIL 4
SHEET NO. EL504
255 OF 396
CADD FILE NO. _201735882-B1EELD-5249

D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\sheets_201735882-B1EELD-5249.dwg Feb 12, 2019 – 5:20pm Kat



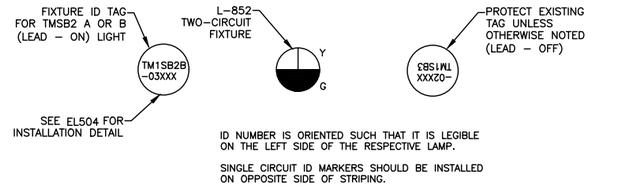

1 — TYPICAL TAXIWAY "LEAD-ON/LEAD-OFF" CENTERLINE SERIES LIGHTING CIRCUIT WIRING

NOT TO SCALE



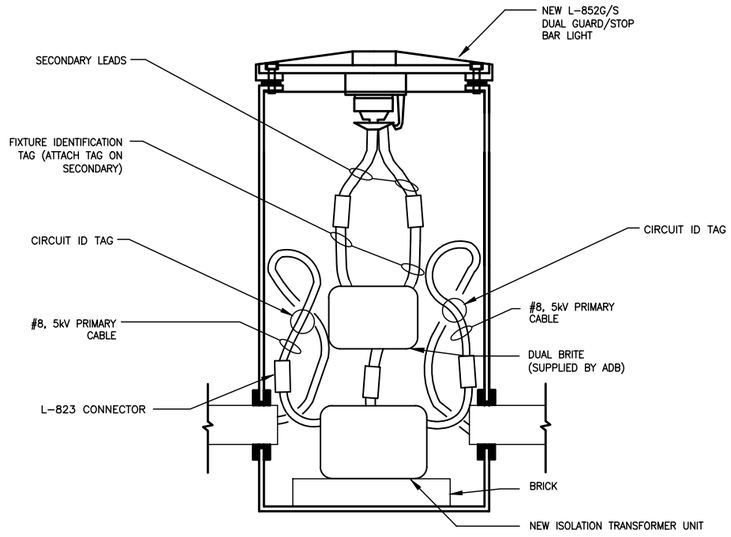

2 — TYPICAL LEAD-ON /LEAD-OFF LIGHT WIRING

NOT TO SCALE




3 — FIXTURE ID TAG FOR TWO-CIRCUIT FIXTURE

NOT TO SCALE




3 — TYPICAL CONFIGURATION: RUNWAY L-852G/S DUAL GUARD/STOP LIGHT

NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 & EL001 FOR GENERAL ELECTRICAL NOTES AND LEGEND.

SHEET NOTES:

1. THE LEAD-ON LIGHTS ARE POWERED BY THE TBSB2A AND TBSB3. THE LEAD-OFF LIGHTS ARE POWERED BY THE TBS CIRCUIT. THE LEAD-ON LIGHTS ARE THE LIGHT BEAMS THE PILOT WOULD SEE ENTERING THE RUNWAY FROM THE TAXIWAY. THE LEAD-OFF LIGHTS ARE THE LIGHT BEAM THE PILOT WOULD SEE ENTERING THE TAXIWAY FROM THE RUNWAY.

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RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE: ELECTRICAL DETAIL 5

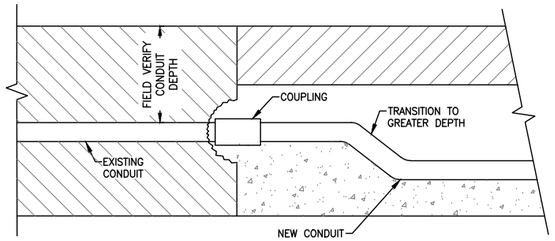
SHEET NO. EL505



CADD FILE NO. _201735882-B1EELD-5249

COLORADO LICENSED TERON LEAN 52246 2/15/19 PROFESSIONAL ENGINEER

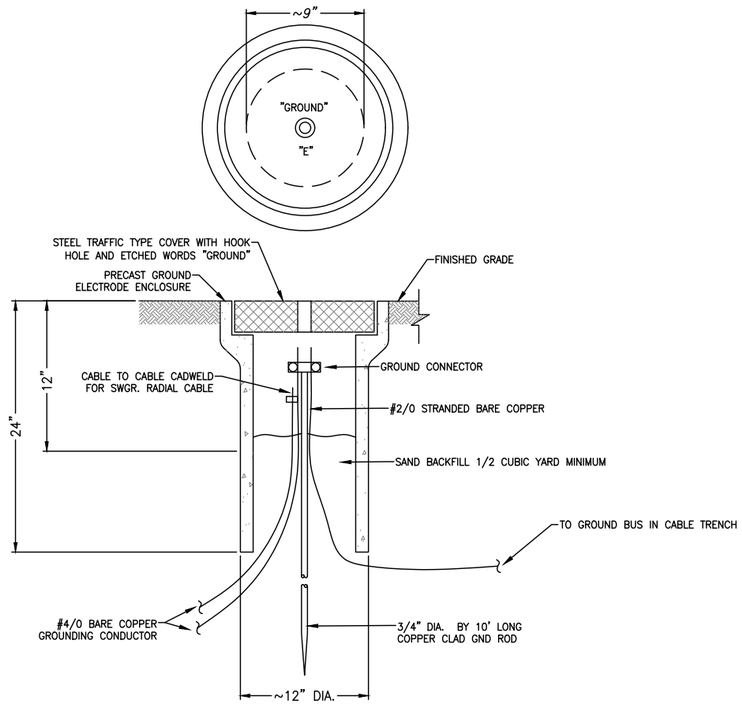
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NOTES:

1. LOCATE EXISTING CONDUIT WHICH IS BEING INTERCEPTED AND FIELD VERIFY CONDUIT DEPTH.
2. SAW CUT A 4'x4' MINIMUM SECTION OF PAVEMENT AND HAND EXCAVATE AT POINT OF CONNECTION. CUT CONDUIT AND CHISEL OUT AN AREA AROUND CONDUIT END.
3. CLEAN CONDUIT AND INSTALL A COUPLING.
4. SAW CUT OR KERF TRENCH FOR NEW CONDUIT TO EXCAVATED HOLE AREA.
5. INSTALL NEW CONDUIT AS INDICATED IN CONDUIT INSTALLATIONS.
6. IF EXISTING CONDUIT DEPTH IS LESS THAN THE NEW CONDUIT TRANSITION TO GREATER DEPTH.
7. RESTORE THE CEMENT TREATED BASE BY POURING (N) P-610.

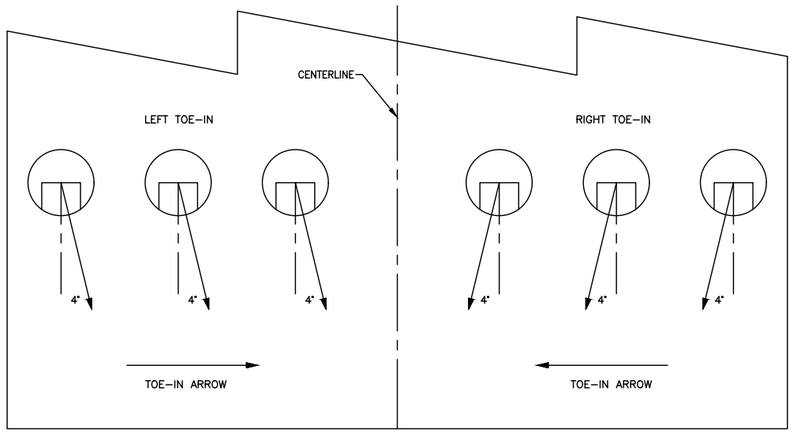
1 — EXISTING CONDUIT CONNECTION DETAIL
NOT TO SCALE




2 — GROUND TEST WELL
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.




NOTES:

1. CONTRACTOR SHALL SUPPLY L-850B LIGHTS THAT HAVE STRAIGHT PHOTOMETRIC BEAM BUT SHALL INSTALL THE BASE CAN TOED-IN 4° DEGREES TOWARD CENTERLINE.

3 — AIMING OF TDZ BASE CANS
NOT TO SCALE




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DENVER INTERNATIONAL AIRPORT

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# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

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SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

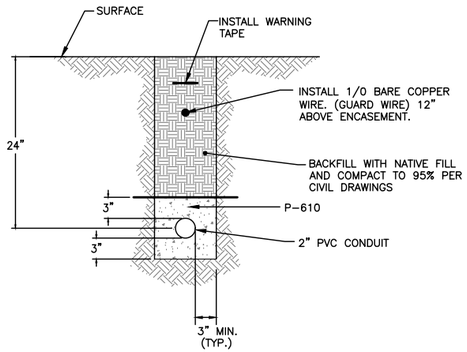
ELECTRICAL DETAIL 6

SHEET NO. EL506

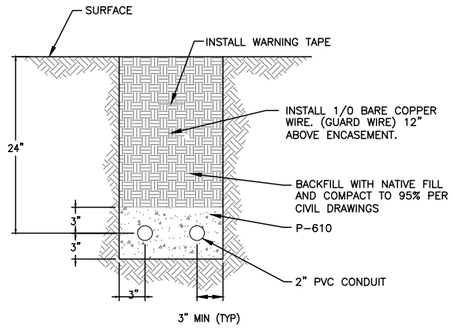
257 OF 396

CADD FILE NO. _201735882-B1EELD-5249

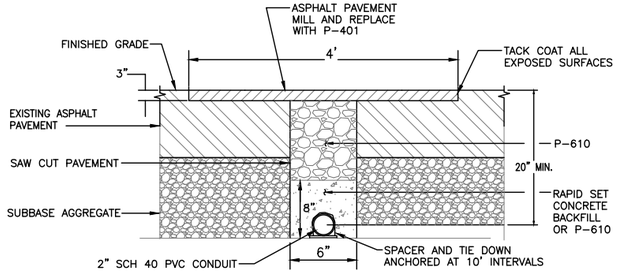
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1 — 1W–2" CONDUIT IN NON–PAVED EARTH (NATIVE SOIL)
NOT TO SCALE



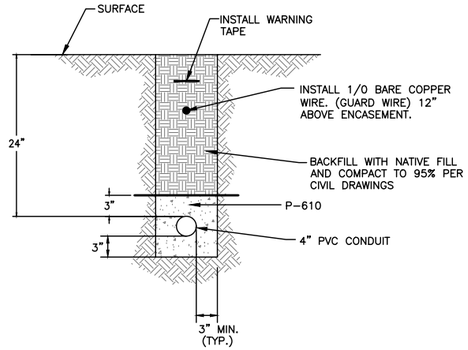

2 — 2W–2" CONDUIT IN NON–PAVED EARTH (NATIVE SOIL)
NOT TO SCALE



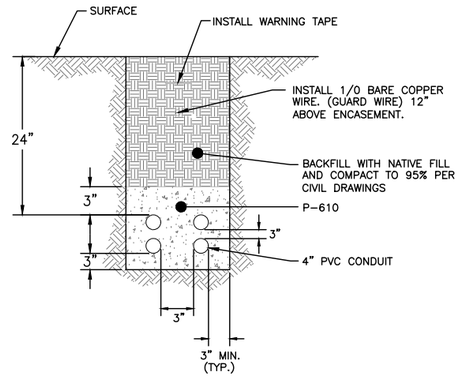

NOTES:

1. SAWCUT 6" WIDE TRENCH IN EXISTING ASPHALT PAVEMENT TO MIN. 20" DEPTH. THOROUGHLY CLEAN CUT.
2. ENCASE WITH CONCRETE AS SHOWN.
3. COMPLETE ASPHALT PAVEMENT RESTORATION AS SHOWN.

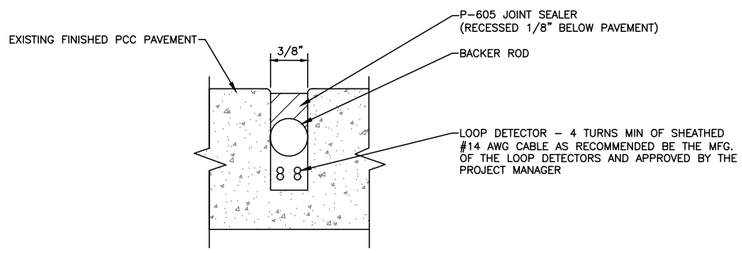
3 — CONDUIT INSTALLATION IN EXISTING ASPHALT OVERLAY
NOT TO SCALE



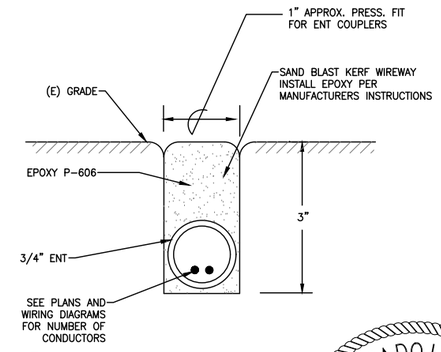

4 — 1W–4" CONDUIT IN NON–PAVED EARTH (NATIVE SOIL)
NOT TO SCALE




5 — 4–WAY, POWER DUCTBANK IN NON–PAVED EARTH (NATIVE SOIL)
NOT TO SCALE




6 — LOOP DETECTOR IN PCC
NOT TO SCALE




7 — LOOP DETECTOR I
NOT TO SCALE

NOTES:

1. SEE SHEETS E–001 FOR GENERAL ELECTRICAL NOTES.

DUCTBANK NOTES:

1. WARNING TAPE 6" WIDE RED POLYETHYLENE TAPE WITH LEGEND "CAUTION ELECTRICAL LINES BELOW", OR "CAUTION COMM. LINES BELOW", (BRADY IDENTOLINE OR EQUAL) PLACED AT 12" ABOVE DUCTBANK.
2. INSTALL GROUND WIRE (COUNTERPOISE) MINIMUM 12" ABOVE TOP OF THE CONDUITS. COUNTERPOISE SHALL BE 7 STRANDED, CLASS A , #1/0 BARE COPPER. TERMINATE COUNTERPOISE AT HANDHOLE OR BUILDING GROUND ROD BY EXOTHERMIC WELD.
3. ALL GROUND RODS SHALL BE INSTALLED VERTICALLY TO A DEPTH OF 12 INCHES BELOW GRADE TO TOP OF ROD. IF ROD CANNOT BE DRIVEN TO THIS DEPTH DUE TO ROCK SUBGRADE. THE SUBGRADE SHALL BE DRILLED TO ACHIEVE THE DESIRED DEPTH AND THE HOLE SHALL BE SEALED WITH AN FAA APPROVED SEALANT. ALL GROUND RODS SHALL BE 3/4" X 10' COPPER CLAD.
4. GROUND RODS SHALL BE INSTALLED AT APPROXIMATELY 90–FOOT INTERVALS USING EXOTHERMIC WELDS TO ACHIEVE GROUND RESISTANCE OF LESS THAN 10 OHMS. THE SPACING BETWEEN GROUND RODS MUST VARY 10% TO 20% TO PREVENT RESONANCE. INSTALL THE GROUND RODS APPROXIMATELY 6–FEET FROM DUCTBANK ON EITHER SIDE OF TRENCH.
5. UTILIZE METERING DEVICE THAT HAS THE CAPABILITY OF ACCURATELY READING THE RESISTANCE OF A SINGLE GROUND ROD WITHIN A SYSTEM TO A VARIANCE OF +/– 1%. ALL GROUND RODS SHALL BE TESTED FOLLOWING INSTALLATION AND SHALL HAVE A RESISTANCE TO GROUND NO GREATER THAN 10 OHMS. IF THIS RESISTANCE CANNOT BE ACHIEVED, AN ADDITIONAL GROUND ROD SHALL BE INSTALLED AT A DISTANCE AWAY FROM THE ORIGINAL GROUND ROD OF ONE GROUND ROD LENGTH AND THEN BONDED TO THE GROUNDING SYSTEM.
6. EXOTHERMIC WELD ALL GROUND ROD CONNECTIONS.
7. INSTALL PULL ROPE IN ALL CONDUITS.
8. INSTALL THE SIDES OF THE DUCTBANK WITH A NEAT VERTICAL FACE, OR FORMING IF NECESSARY. THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT, MATERIAL AND INCIDENTALS NECESSARY FOR FORMWORK. FORMWORK SHALL NOT BE SEPARATELY MEASURED BUT SHALL BE CONSIDERED INCIDENTAL TO THE RESPECTIVE DUCTBANK PAY ITEM.
9. CONTRACTOR SHALL ANTICIPATE DEWATERING ALL TRENCHES. ALL WATER SHALL BE DISCHARGED PER THE APPLICABLE ENVIRONMENTAL REGULATIONS. SUBCONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT, MATERIAL, EROSION CONTROL AND INCIDENTALS NECESSARY FOR DEWATERING. DEWATERING SHALL NOT BE SEPARATELY MEASURED FOR PAYMENT. DEWATERING IS INCIDENTAL TO THE VARIOUS DUCTBANK PAY ITEMS. CONTRACTOR SHALL HAUL SPOILS OFF AIRPORT PROPERTY IN ACCORDANCE WITH APPLICABLE RULES. COST IS INCIDENTAL TO COST OF TRENCH.
10. PROVIDE 12 INCH SEPARATION BETWEEN POWER AND COMMUNICATION CONDUIT.
11. SLOPE CONDUIT TO PULL BOX WITHIN 5 FT OF PULL BOX. SLOPE CONDUIT AT TRANSITION BETWEEN ASPHALT AND NON–PAVED EARTH 5 FT BEFORE TRANSITION POINT.

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: ELECTRICAL DETAIL 7
SHEET NO. EL507

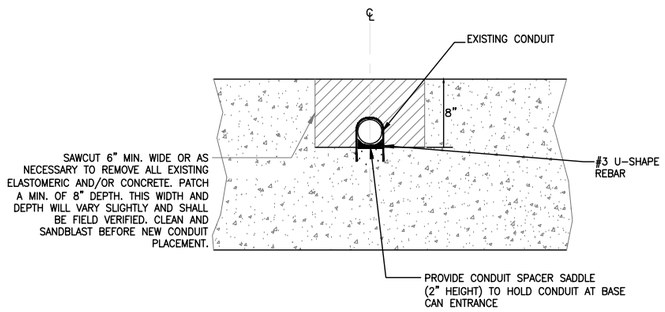
CADD FILE NO. _201735882-B1EELD-5249

COLORADO LICENSED TERON LEAN 52246 2/15/19 PROFESSIONAL ENGINEER

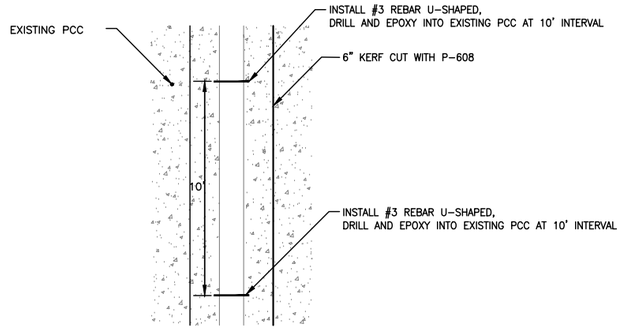
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NOTES:

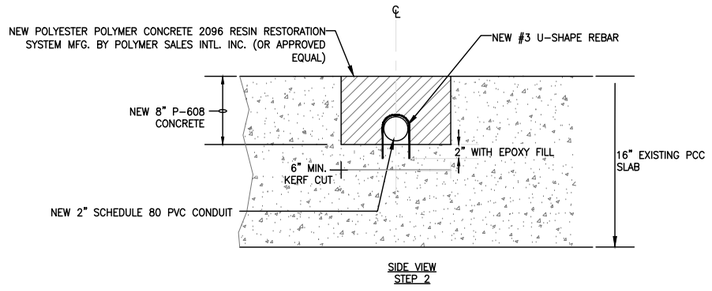
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.




SIDE VIEW
STEP 1




TOP VIEW
STEP 2




SIDE VIEW
STEP 2

## 1 NEW ELECTRICAL AIRFIELD CONDUIT IN EXISTING PCC PAVEMENT

NOT TO SCALE

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

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| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

ELECTRICAL DETAIL 8

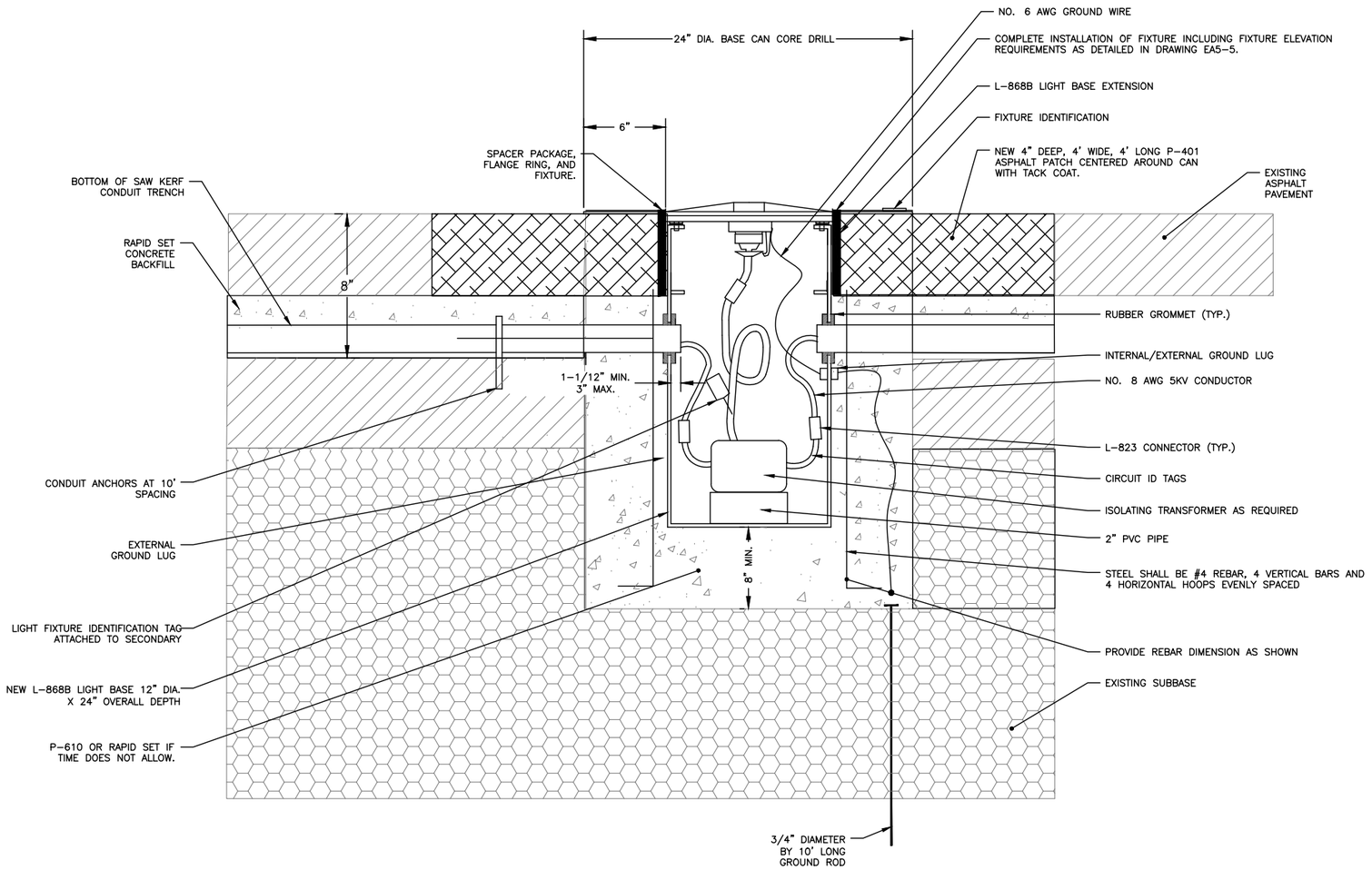
SHEET NO. EL508

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CADD FILE NO. _201735882-B1EELD-5249

COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

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1 NEW L-868B LIGHT BASE CAN IN EXISTING ASPHALT PAVEMENT SECTION
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. CONTRACTOR SHALL INSTALL BASE CAN AT LOCATIONS SHOWN ON THE CONTRACT DRAWINGS.
2. INSTALL STEEL REINFORCEMENT CAGE AND POSITION L-868 LIGHT BASE CAN USING AN ALIGNMENT JIG (JAQUITH PART # A-9100 OR APPROVED EQUAL) AS DETAILED IN DETAIL 1 THIS SHEET.
3. INSTALL NEW CONDUIT IN EXISTING ASPHALT SHOULDER (REFER TO DRAWING EA5-10) AND CONNECT LIGHT BASES AS SHOWN ON PLAN SHEETS. NO SHARP ANGLES SHALL BE MADE IN CONNECTING CONDUIT TO LIGHT BASE THAT MIGHT INHIBIT PULLING CABLE.
4. INSTALL 5/8" PLYWOOD COVER AND 1/8" MUD PLATE. CONCRETE ENCASE CONDUIT AND CAN SO THAT TOP OF MUD PLATE IS MIN. 4" BELOW EXISTING ASPHALT PAVEMENT GRADE.
5. RESTORE PAVEMENT WITH P-401, 4' WIDE, 4' LONG, 4" DEEP P-401. CLEAN SURFACE AND APPLY TACK COAT AT PAVEMENT.
6. PERFORM PILOT CORE AND ORDER LIGHT BASE CAN EXTENSION. AFTER BASE CAN EXTENSION IS ON-SITE, PROVIDE 13 1/2' CORE CENTERED AROUND CAN.
7. INSTALL EXTENSION, SPACER PACKAGE AND FLANGE RING AND COMPLETE INPAVEMENT LIGHT INSTALLATION AS SHOWN ON DRAWING EA5-5. CONNECT GROUND WIRE TO INTERNAL GROUND LUG. INSTALL COPPER WIRE TO GROUND ROD AT LOCATIONS INDICATED.
8. INSTALL FIXTURE USING MINIMUM 6 EACH 18-8 STAINLESS STEEL BOLTS.
9. AT NO TIME SHALL INSTALLATIONS ON ACTIVE TAXIWAYS ENDANGER AIRCRAFT OR VEHICLES. ANY BASE CAN INSTALLED WITHOUT A LIGHT, TEMPORARILY OR PERMANENTLY, SHALL BE EQUIPPED WITH A COVER PLATE. ANY HOLES OR VOIDS SHALL BE FILLED TO ENSURE PROPER SMOOTHNESS OF OPERATION FOR VEHICLES OR PLANES. ALL THREADED COUPLINGS AND BOLTS COATED WITH ANTISEIZE COMPOUND.
10. REFER TO DRAWING 05 CA 1101 FOR LIGHT BASE TOLERANCES.




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RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

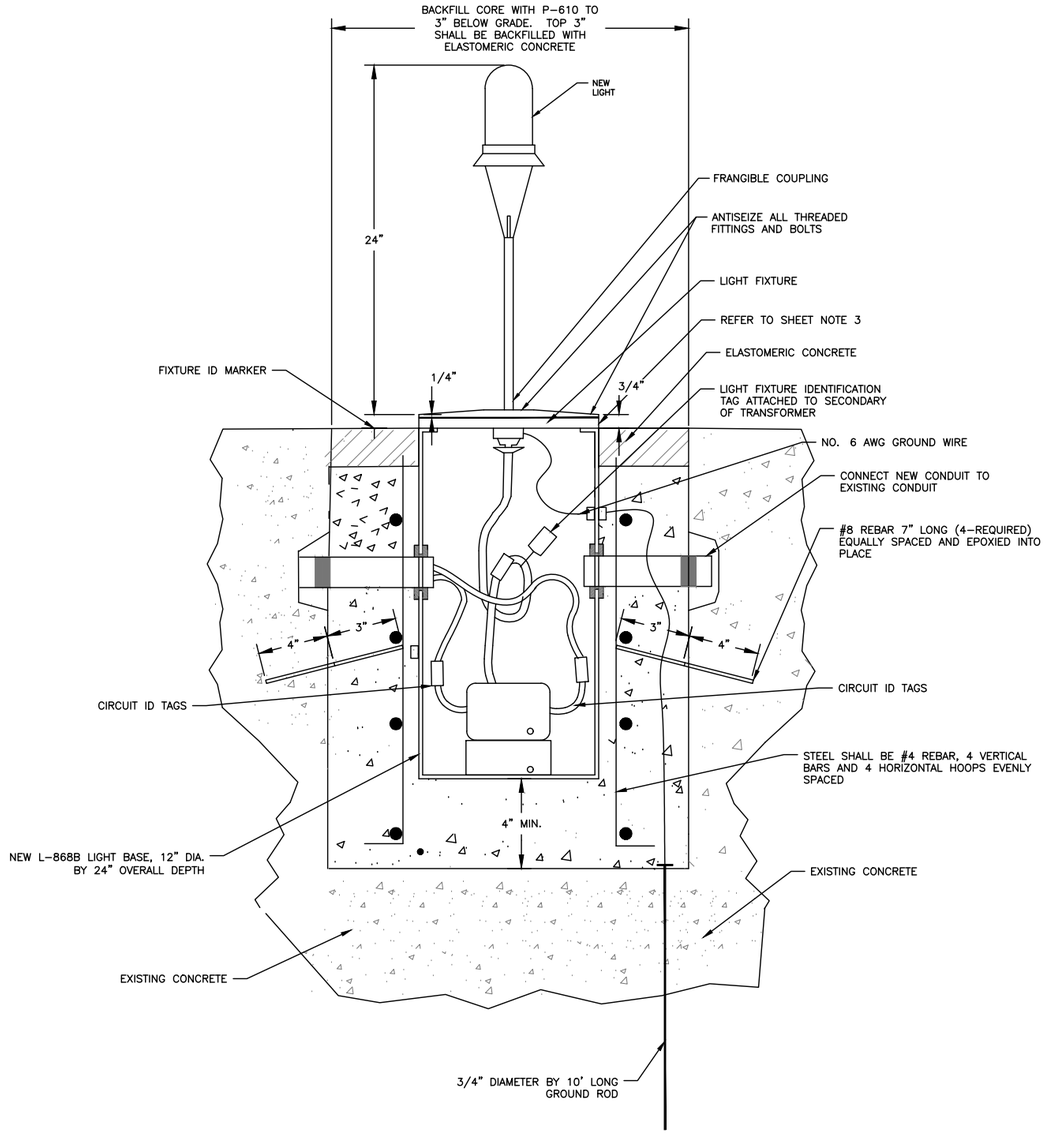
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SHEET NO. EL509

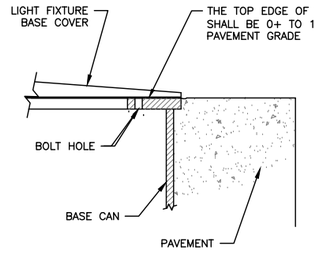


CADD FILE NO. _201735882-B1EELD-5249

Feb 12, 2019 - 5:20pm Kat
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1 NEW L-868B LIGHT BASE CAN IN EXISTING CONCRETE PAVEMENT SECTION
NOT TO SCALE




2 BASE CAN EDGE DETAIL
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. CORE AND REMOVE EXISTING 36" DIAMETER BY MINIMUM 30" CORE. CLEAN DEBRIS FROM HOLE.
2. CUT TRENCH. INSTALL NEW CONDUIT IN EXISTING CONCRETE AS DETAILED IN DETAIL 1, DRAWING EL508.
3. INSTALL NEW BASE CAN. NOTE: THIS INSTALLATION DOES NOT REQUIRE THE USE OF AN EXTENSION SO ADJUST BASE CAN HEIGHT ACCORDINGLY.
4. POUR RAPID SET CONCRETE TO 3" BELOW FINAL GRADE. ALLOW TO CURE PER MFG. RECOMMENDATIONS.
5. INSTALL 3/8" THICK FOAM OR PLASTIC CYLINDRICAL MATERIAL AROUND THE BASE CAN. THE MATERIAL SHALL EXTEND 1" BELOW THE TOP FLANGE OF THE BASE CAN. THIS IS NECESSARY TO KEEP THE ELASTOMERIC FROM GETTING INTO THE CANS AND BOLT HOLDS.
6. POUR ELASTOMERIC CONCRETE AND LEVEL TO FINISH GRADE.
7. REMOVE FOAM OR CYLINDRICAL MATERIAL.
8. INSTALL SPACER PACKAGE, FIXTURE, AND SIKAFLEX (IN THE VOID LEFT BY THE FOAM OR PLASTIC MATERIAL).
9. COMPLETE INSTALLATION AS SHOWN IN DETAILS ON DRAWING EA5-5 EXCEPT THAT THE BASE CAN DOES NOT REQUIRE AN EXTENSION.

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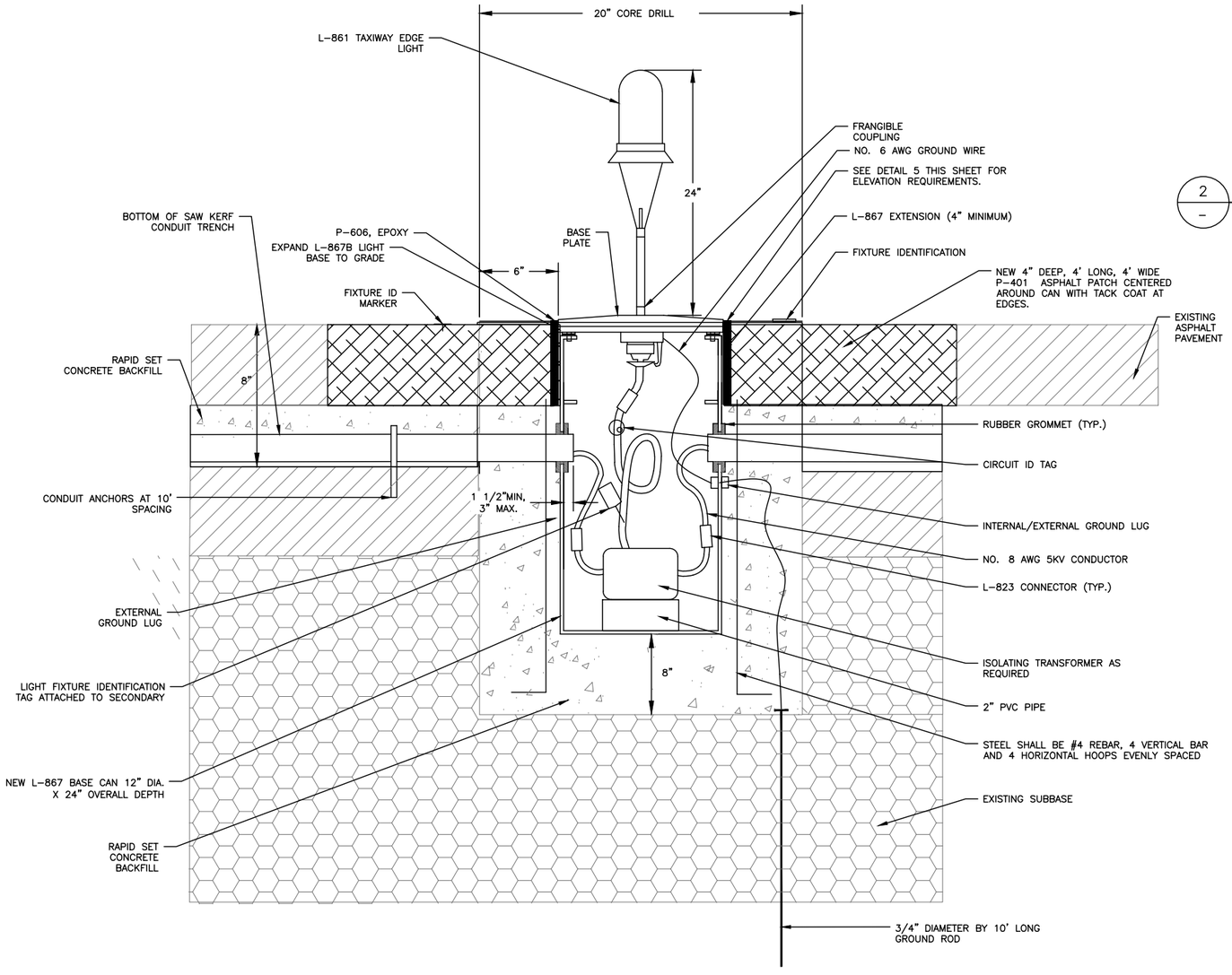
RUNWAY 17R-35L
COMPLEX PAVEMENT
REHABILITATION
PACKAGE 1

ISSUE RECORD

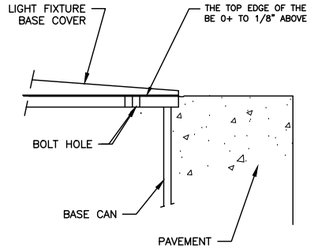
| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
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SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: ELECTRICAL DETAIL 10
SHEET NO. EL510 261 OF 396
CADD FILE NO. _201735882-B1EELD-5249

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2 NEW L-867B BASE CAN AND ELEVATED FIXTURE INSTALLED IN EXISTING ASPHALT SHOULDER
NOT TO SCALE




2 BASE CAN EDGE DETAIL
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. CORE 24" DIAMETER CORE BY MIN 30" DEEP.
2. INSTALL CAN TO ALLOW FOR A 4" MINIMUM EXTENSION. INSTALL STEEL REINFORCEMENT CAGE AND POSITION BASE TO ALLOW 8" OF P-610 ON BOTTOM OF LIGHT BASE. USE ALIGNMENT JIG (PART #A-9100 OR APPROVED EQUAL)
3. INSTALL NEW CONDUIT IN EXISTING ASPHALT SHOULDER (REFER TO DRAWING AS DETAILED IN DETAIL 3 ON EA5-11) AND CONNECT LIGHT BASES AS SHOWN ON PLAN SHEETS. NO SHARP ANGLES SHALL BE MADE IN CONNECTING CONDUIT TO LIGHT BASE THAT MIGHT INHIBIT PULLING CABLE.
4. INSTALL PLYWOOD COVER AND MUD PLATE. CONCRETE ENCASE WITH P-610 OR RAPID SET CONDUIT AND LIGHT SO THAT TOP OF MUD PLATE IS MIN. 4" BELOW PAVEMENT GRADE. NEW CONCRETE SHALL NOT BE HIGHER TOP OF MUD PLATE.
5. PROVIDE 4' WIDE BY 4' LONG BY 4" DEEP ASPHALT OVERLAY PATCH (P-401). USE TACK COAT AND COMPACT AS REQUIRED.
6. PROVIDE MIN. 14.5" CORE CENTERED AROUND LIGHT BASE. REMOVE CORE AND OTHER MATERIAL. INSTALL EXTENSION (4" MINIMUM EXTENSION) AND FILL WITH P-606.
7. COMPLETE TAXIWAY EDGE LIGHT INSTALLATION AS DETAILED ON THIS DRAWING. CONNECT GROUND WIRE TO INTERNAL GROUND LUG. INSTALL COPPER WIRE TO GROUND ROD AT LOCATIONS INDICATED. POUR P-601 AROUND THE LIGHT BASE EXPANDED SECTION.
8. INSTALL FIXTURE USING MINIMUM 6 EACH 18-8 STAINLESS STEEL BOLTS.
9. AT NO TIME SHALL INSTALLATIONS ON ACTIVE TAXIWAYS ENDANGER AIRCRAFT OR VEHICLES. ANY BASE CAN INSTALLED WITHOUT A LIGHT, TEMPORARILY OR PERMANENTLY, SHALL BE EQUIPPED WITH A COVER PLATE. ANY HOLES OR VOIDS SHALL BE FILLED TO ENSURE PROPER SMOOTHNESS OF OPERATION FOR VEHICLES OR PLANES.




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RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

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DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

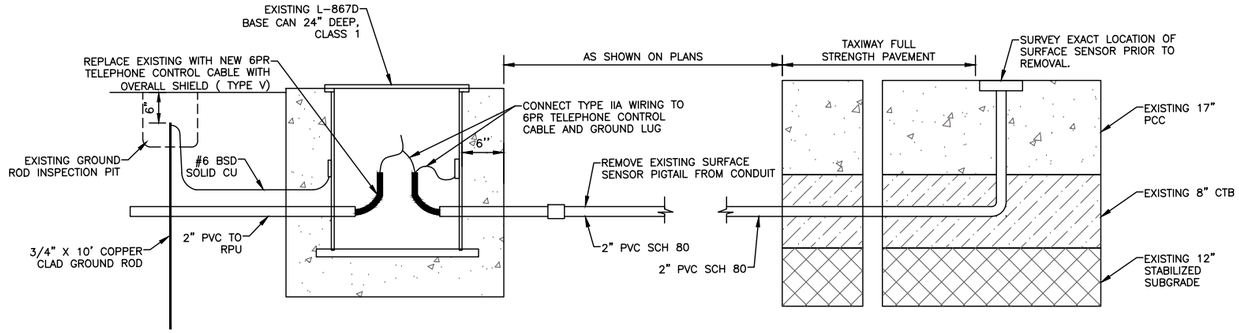
ELECTRICAL DETAIL 11

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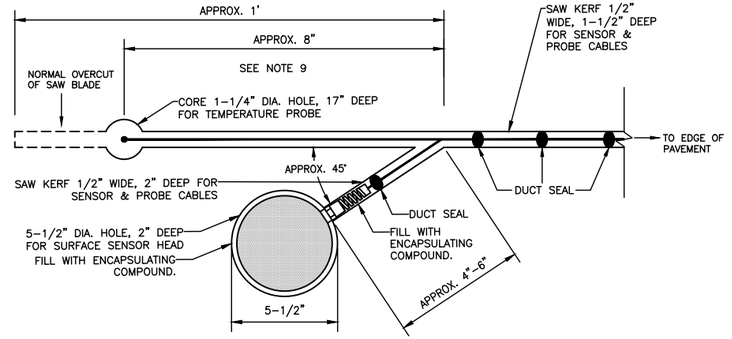
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CADD FILE NO. _201735882-B1EELD-5249

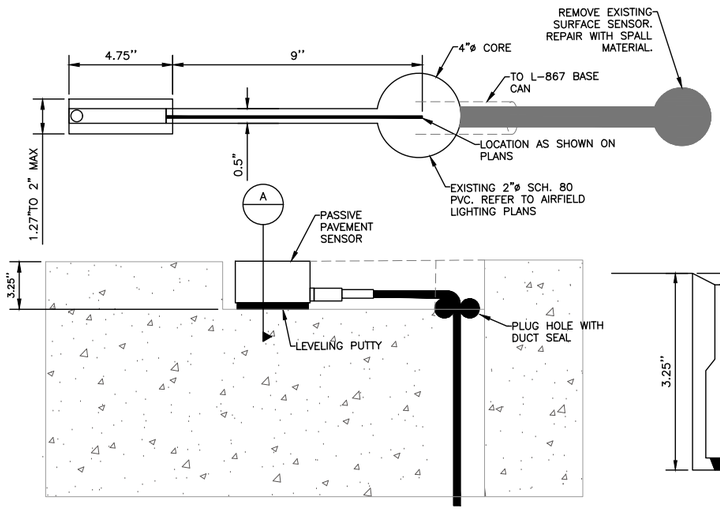
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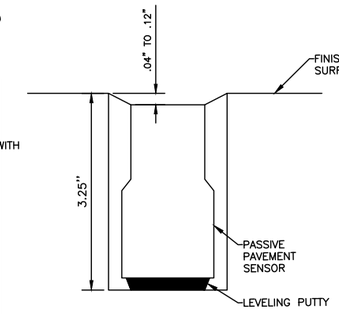

1 — RUNWAY SURFACE PAVEMENT SENSOR INSTALLATION
NOT TO SCALE



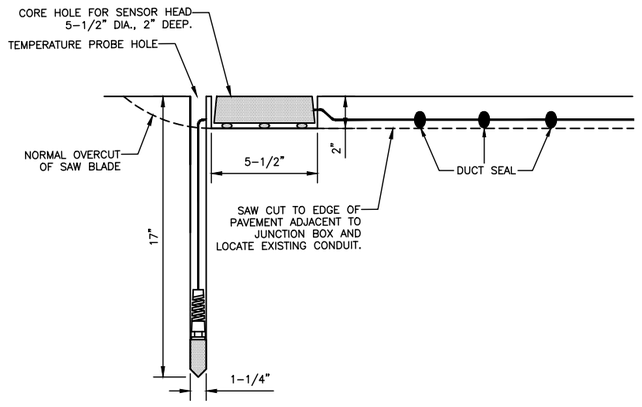

4 — PAVEMENT SENSOR & TEMPERATURE PROBE INSTALLATION, PLAN
NOT TO SCALE




2 — PAVEMENT SENSOR INSTALLATION
NOT TO SCALE




3 — SECTION
NOT TO SCALE




5 — PAVEMENT SENSOR & TEMPERATURE PROBE INSTALLATION, SECTION
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. CUT TYPE IIA SENSOR CABLE LONG ENOUGH TO MAKE CONNECTION A MINIMUM OF 2' ABOVE THE BASE CAN.
2. DO NOT INSTALL NEW SENSOR AND CABLE LEAN IN SAME SLOT AND LOCATION OF EXISTING SENSOR. EXCESSIVE EPOXY AROUND SENSOR MAKES MEASUREMENT INACCURATE.
3. INSTALL SENSOR PER MANUFACTURER'S INSTRUCTIONS.
4. CUT NEW SENSOR APPROXIMATELY 6" FROM EXISTING SENSOR. FIELD VERIFY THE LOCATION WITH DENVER CONTRACT MANAGER. CORE 4" DEEP SENSOR. INSTALL WIRE BACK THROUGH EXISTING CONDUIT AND SEAL WIRE AND CONDUIT AS REQUIRED.
5. NEW SENSOR SCHEDULE:

| SENSOR ID | PAVEMENT SENSOR | TEMP. PROBE |
|---|---|---|
| 35L | ✓ | ✓ |
| M4 | ✓ | |
| M5 | ✓ | |
| M6 | ✓ | |
| M7 | ✓ | |
| 17R | ✓ | |

RUNWAY PAVEMENT SURFACE SENSORS AND TEMPERATURE PROBE NOTES

1. REFER TO VAISALA PAVEMENT SENSOR AND SUB-SURFACE TEMPERATURE PROBE INSTALLATION MANUAL, PART NO. 00000003 FOR COMPLETE INSTALLATION PROCEDURES AND DIRECTIONS. VAISALA PHONE: 1-877-824-7252.
2. NEW SENSORS AND ALL ASSOCIATED EQUIPMENT SHALL BE INSTALLED BY CONTRACTOR AT LOCATIONS SHOWN ON DRAWINGS, AS APPROVED BY ENGINEER. INSTALL TEMPERATURE PROBE AT LOCATION OF SENSOR WHERE EXISTING PROBE IS INSTALLED.
3. INSTALL SENSORS AND TEMPERATURE PROBE IN ACCORDANCE WITH DETAIL AND MANUFACTURER'S INSTRUCTIONS. INSTALL NEW SENSOR AND PROBE CABLE FROM SENSOR AND PROBE LOCATION TO JB OUTSIDE SHOULDER PAVEMENT. CONNECT NEW SENSORS AND PROBE CABLES TO EXISTING CABLES IN JB WHICH EXTEND TO THE RPU.
4. PERFORM CONTINUITY AND RESISTANCE TEST OF SENSORS AT REMOTE PROCESSING UNIT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS PROVIDED WITH SENSOR UNIT TO VERIFY PROPER OPERATION. ADJUST OR REPAIR AS REQUIRED.
5. ONLY ONE SENSOR LOCATION CONTAINS A DEEP TEMPERATURE PROBE; FOR LOCATIONS WITH THE SURFACE SENSOR ONLY, DO NOT PERFORM 17" DEEP DRILL AND SAW CUT FOR TEMPERATURE PROBE. SURFACE SENSOR CAN BE PLACED ALIGNED WITH SAW CUT.




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RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

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| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

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VOLUME NO.
SHEET TITLE

PAVEMENT SENSOR DETAIL

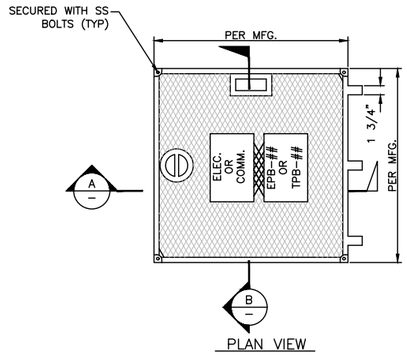
SHEET NO. EL521
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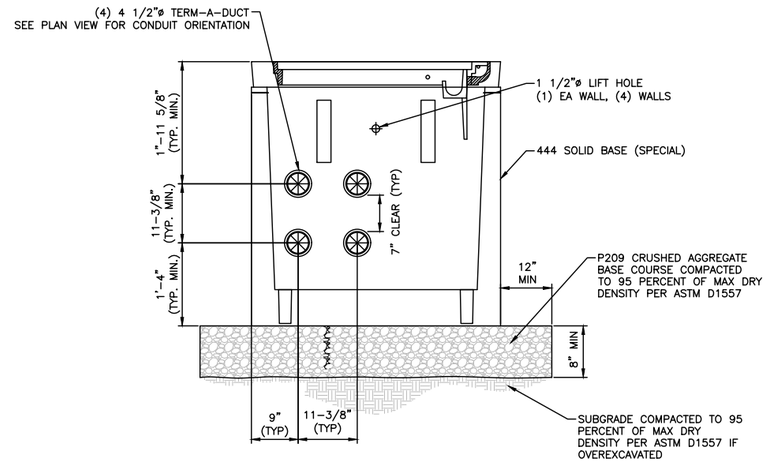
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HANDHOLE NOTES:

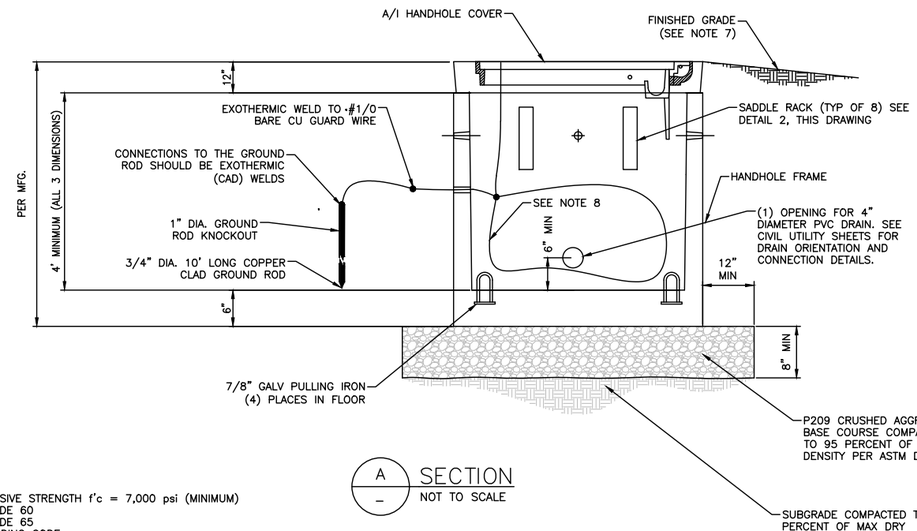
1. EQUIPMENT NOTES:
   1.1. ALL EQUIPMENT SHALL BE NEW FURNISHED BY CONTRACTOR. HANDHOLE SHALL BE 4'x4'x4' MINIMUM INSIDE DIMENSION.
   1.2. HANDHOLES ARE PROVIDED WITH HOLES AS SHOWN. CONTRACTOR MUST CORE-DRILL ADDITIONAL HOLES AS REQUIRED.
2. CONTRACTOR SHALL PROVIDE A STAINLESS STEEL ID TAG WITH THE FOLLOWING DESIGNATION: "ELECTRICAL" OR "COMM" WHERE "##" IS THE RESPECTIVE HAND HOLE IDENTIFICATION.
3. SADDLE RACK SHALL BE INSTALLED ON EACH WALL OF THE HANDHOLE.
4. CONTRACTOR SHALL I.D. EACH CABLE ENTERING & EXITING HANDHOLE.
5. CONTRACTOR SHALL INSTALL A 3/4" DIA. 10' LONG COPPER CLAD GROUND ROD.
6. CONTRACTOR SHALL GROUT AROUND ALL DUCTS ENTERING THE HANDHOLE.
7. HANDHOLE SHALL BE NO MORE THAN 3" ABOVE SURROUNDING GROUND WITH BACKFILL MATCHING THE TOP OF THE COVER, SLOPING AWAY FROM THE HANDHOLE.
8. INSTALL #1/0 BARE CU WIRE. BOLT TO HANDHOLE COVER AND EXOTHERMICALLY WELD TO GROUND ROD. PROVIDE SUFFICIENT SLACK TO OPEN COVER.
9. HANDHOLE SHOWN IS MANUFACTURED BY OLD CASTLE, INC. INSIDE DIMENSIONS SHOWN WILL BE MET REGARDLESS OF WHICH PRECAST STRUCTURE MANUFACTURER IS PROPOSED BY THE SUBCONTRACTOR. PRODUCT NO. 4848 STD. OR APPROVED EQUAL
10. ALL BACKFILL AROUND HANDHOLES SHALL BE IN ACCORDANCE WITH ITEM AIRPORT CIVIL SPECIFICATIONS FOR BACKFILL.
11. INSTALL GROUNDING BUSHINGS ON ALL GRS CONDUIT AND GROUND TO GROUND LOOP WITH #2 AWG BARE COPPER CONDUCTOR VIA MECHANICAL PLUG.
12. INSTALL TOP OF HANDHOLE LESS THAN 3" FROM FINISH GRADE.
13. 8" COMPACTED GRAVEL PER SPECIFICATIONS UNDER PULL BOX TO ASSURE UNIFORM DISTRIBUTION OF SOIL PRESSURE AND DRAINAGE.
14. CONDUITS ENTERING PULL BOX WERE FITTED WITH BELL ENDS AND EXTEND 1" INSIDE OF THE HANDHOLE. ALL CONDUIT ENTRANCES WERE NEATLY GROUTED AND SEALED W/DUCT SEAL.
15. CABLES CIRCLE THE INTERIOR PERIMETER OF THE HANDHOLE PRIOR TO EXITING TO PROVIDE SLACK FOR FUTURE SPLICE.
16. ALL CIRCUITS WERE TAGGED IN HANDHOLE.
17. DUCTBANKS SLOPED TOWARD HANDHOLES 3" PER 100' FOR DRAINAGE.
18. 3/4" DIA. X 10' COPPER CLAD GROUND INSTALLED AT EACH HANDHOLE. GND ROD PLACED 6FT FROM THE HANDHOLE. #1/0 BARE COPPER CADWELDED TO GND ROD AND ROUTED TO HANDHOLE TO GND COVER AND CONDUITS.




B / – PLAN VIEW




B / – SECTION
NOT TO SCALE

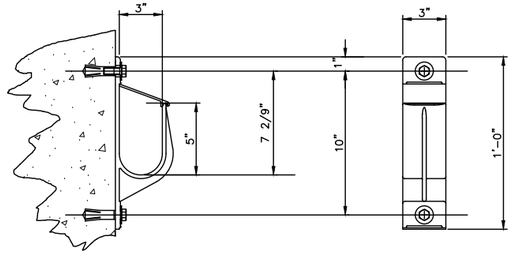



A / – SECTION
NOT TO SCALE

1 / – HANDHOLE (AIRCRAFT RATED)
NOT TO SCALE

STRUCTURAL NOTES:

1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH f'c = 7,000 psi (MINIMUM)
2. REBAR: ASTM A-615 GRADE 60
3. MESH: ASTM A-185 GRADE 65
4. DESIGN: ACI-318-05 BUILDING CODE
5. LOADS: 120.00 kip
   ASTM C-857 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES"
   30% IMPACT FOR LESS THAN 2'-0" SOIL COVER
   SOIL DENSITY 120 pcf
   40 pcf E.F.P. LATERAL SOIL PRESSURE ABOVE WATER TABLE
   80 pcf E.F.P. LATERAL SOIL PRESSURE BELOW WATER TABLE
   80 psf LIVE LOAD SURCHARGE
   NO LIVE LOAD SURCHARGE FOR SOIL COVER > 8'-0"
   TOP OF VAULT 5'-0" BELOW FINISHED GRADE (MAXIMUM)
   WATER TABLE 5'-0" BELOW FINISHED GRADE (ASSUMED)
   REQUIRES 8,000 PSF MINIMUM ALLOWABLE SOIL BEARING PRESSURE




2 / – SADDLE RACK
NOT TO SCALE

SADDLE RACK INSTALLATION GUIDE LINES:

1. BE SURE THE SURFACE OF THE CONCRETE WALL IS FLAT AND SMOOTH.
2. ONE FASTENER SHOULD BE INSTALLED IN EACH OF THE SADDLE RACKS ELONGATED HOLES.
3. INSTALL EACH DROP-IN ANCHOR AS SHOWN ON THIS DRAWING AND AS DESCRIBED BELOW:
   A. DRILL A 5/8" DIA. HOLE 2-3/32" DEEP.
   B. BLOW OUT HOLE.
   C. DRIVE ANCHOR 3/32" TO 5/32" BELOW THE SURFACE OF THE CONCRETE.
   D. EXPAND ANCHOR WITH FRT112 SETTING TOOL. ANCHOR IS PROPERLY SET WHEN SHOULDER OF SETTING TOOL IS FLUSH WITH THE TOP OF ANCHOR.
4. INSTALL THE FLAT WASHER AND TIGHTEN THE CAP SCREW JUST ENOUGH TO ATTAIN A SNUG FIT. AVOID HIGH SCREW TORQUE WHICH INDUCES COMPRESSIVE STRESS.

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

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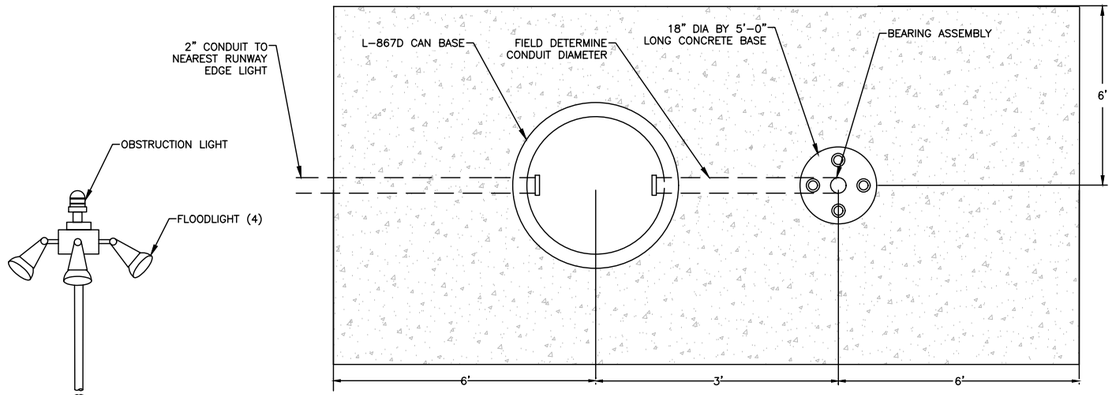
RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

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VOLUME NO.
SHEET TITLE: MANHOLE INSTALLATION DETAIL
SHEET NO. EL531
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CADD FILE NO. _201735882-B1EELD-5261

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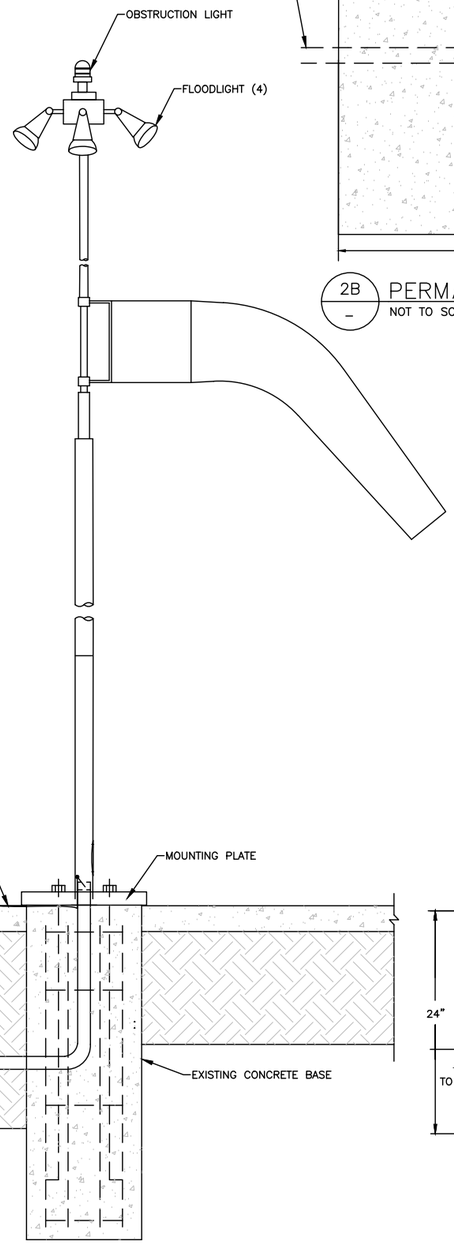

2B — PERMANENT RELOCATION OF SECONDARY WINDCONE: TOP VIEW
NOT TO SCALE

NOTES:

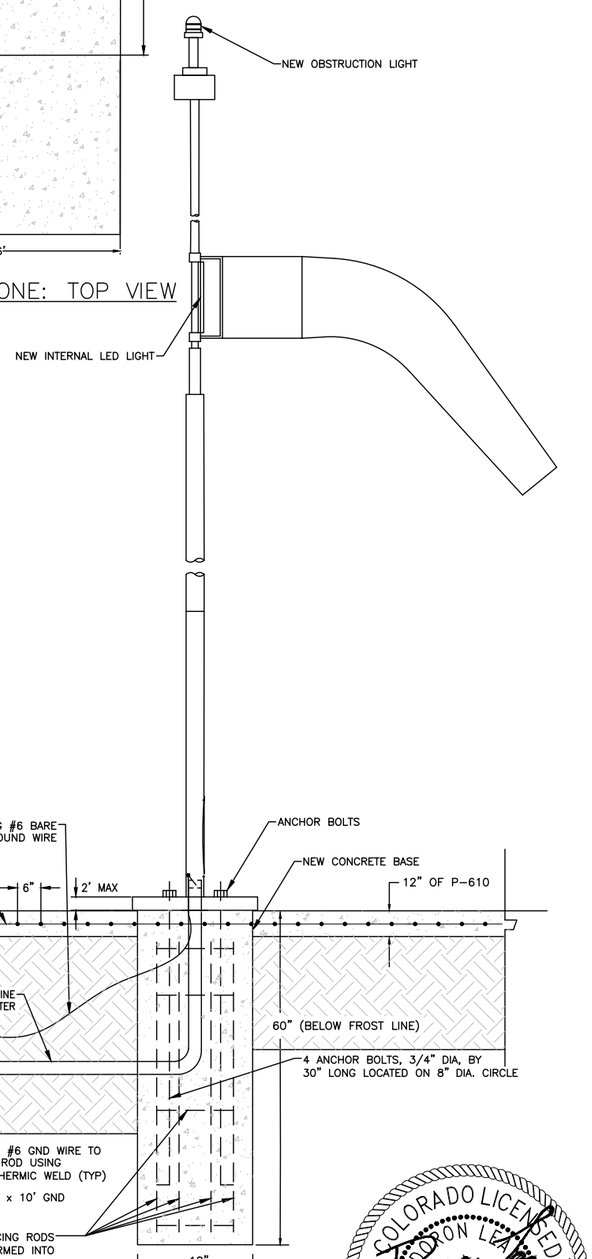
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

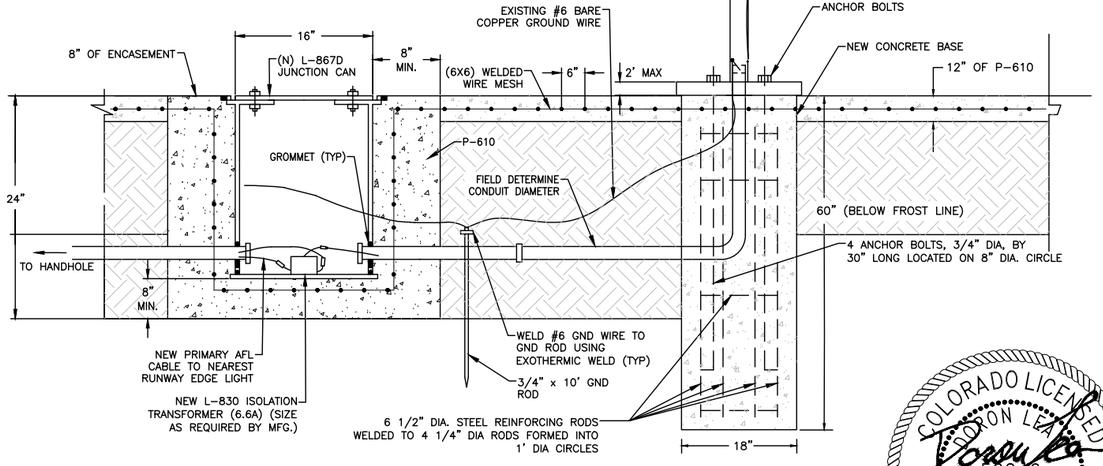
DEMO NOTES:

1. PROVIDE NEW 6.6A/6.6A TRANSFORMER FEED TO WINDCONE.




1 — DEMO RUNWAY 17/35 WIND CONE DETAIL (BOTH EXISTING WINDCONES)
NOT TO SCALE (FOR REFERENCE ONLY)




2 — NEW L-806 SECONDARY RUNWAY 35L WIND CONE DETAIL
NOT TO SCALE

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE: DEMO AND NEW SECONDARY WINDCONE

SHEET NO. EL532
265 OF 396

CADD FILE NO. _201735882-B1EELD-5261

COLORADO LICENSED
TERRON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

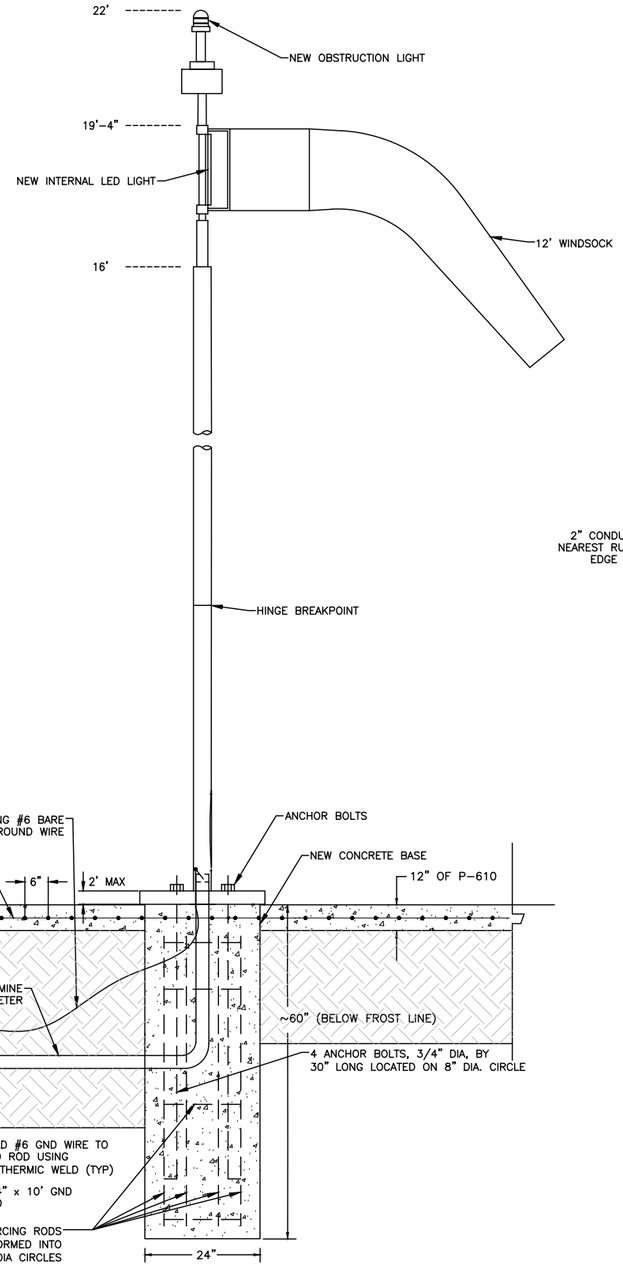
D:\Dropbox (lean photometrics)\active projects\15718\01 rah den 17-35\ reconstruction\01 drawings\working drawings\Sheets_20173582-B1EELD-5261.dwg Feb 12, 2019 - 5:21pm Kat

NOTES:

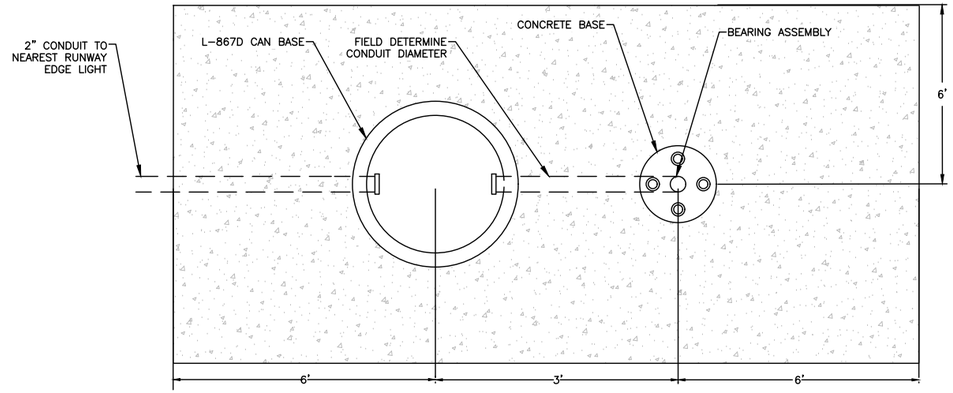
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

DEMO NOTES:

1. PROVIDE NEW 6.6A/6.6A TRANSFORMER FEED TO WINDCONE.




1 / _ NEW L-807 PRIMARY RUNWAY 17R WIND CONE DETAIL
NOT TO SCALE




1B / _ PERMANENT RELOCATION OF PRIMARY WINDCONE: TOP VIEW
NOT TO SCALE

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
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| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

NEW PRIMARY WINDCONE

SHEET NO. EL533
266 OF 396

CADD FILE NO. _201735882-B1EELD-5261

COLORADO LICENSED
DIXON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

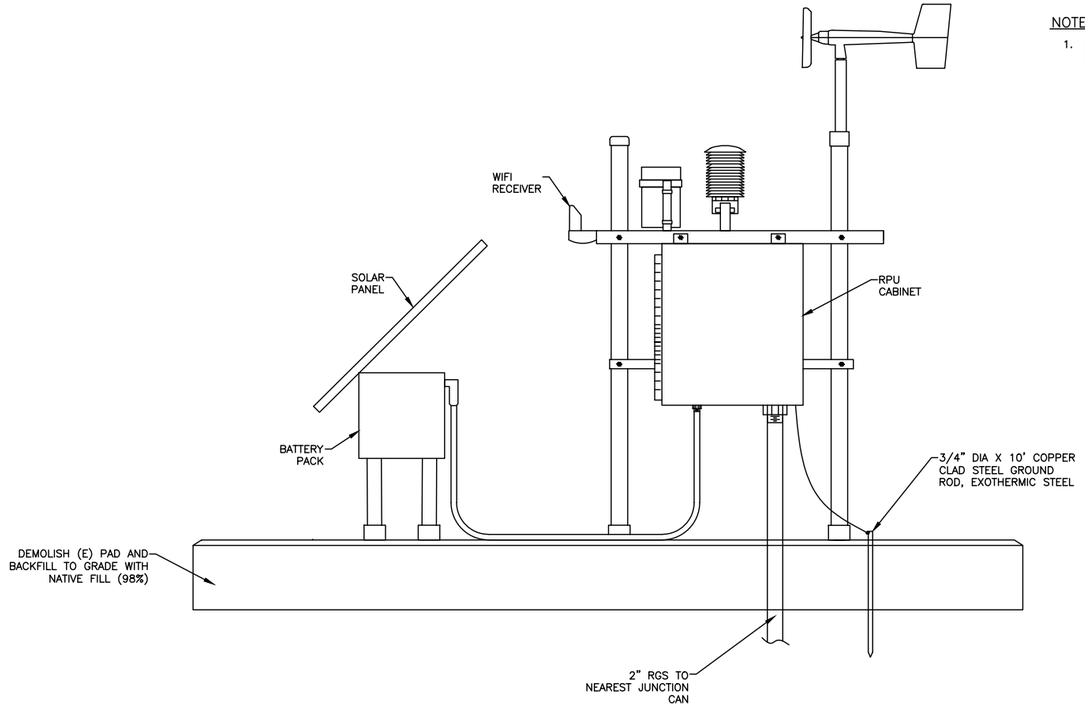
D:\Dropbox (lean photometrics)\active projects\15718\01a rsh den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELD-5261.dwg Feb 12, 2019 - 5:21pm Kat



NOTES:

ALL ABOVE GROUND EQUIPMENT TO BE SALVAGED AND DELIVERED TO AIRPORT MAINTENANCE FOR SPARE PARTS.

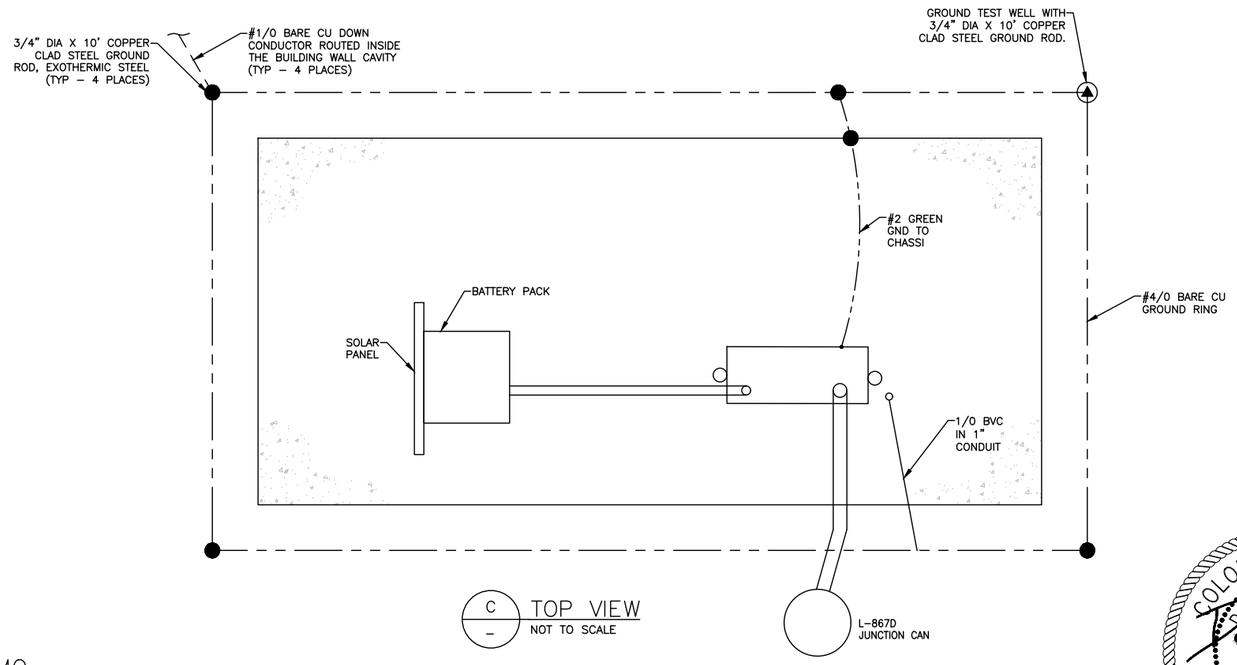
A
_
PICTURE OF EXISTING RPU
NOT TO SCALE




B
_
SIDE VIEW
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.




C
_
TOP VIEW
NOT TO SCALE

1
_
RPU-SOUTH – DEMO
NOT TO SCALE

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

RPU-SOUTH REMOVAL

SHEET NO. EL551

267 OF 396

CADD FILE NO. _201735882-B1EELD-5264

COLORADO LICENSED
LORON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELD-5264.dwg Feb 13, 2019 – 4:10pm Kat



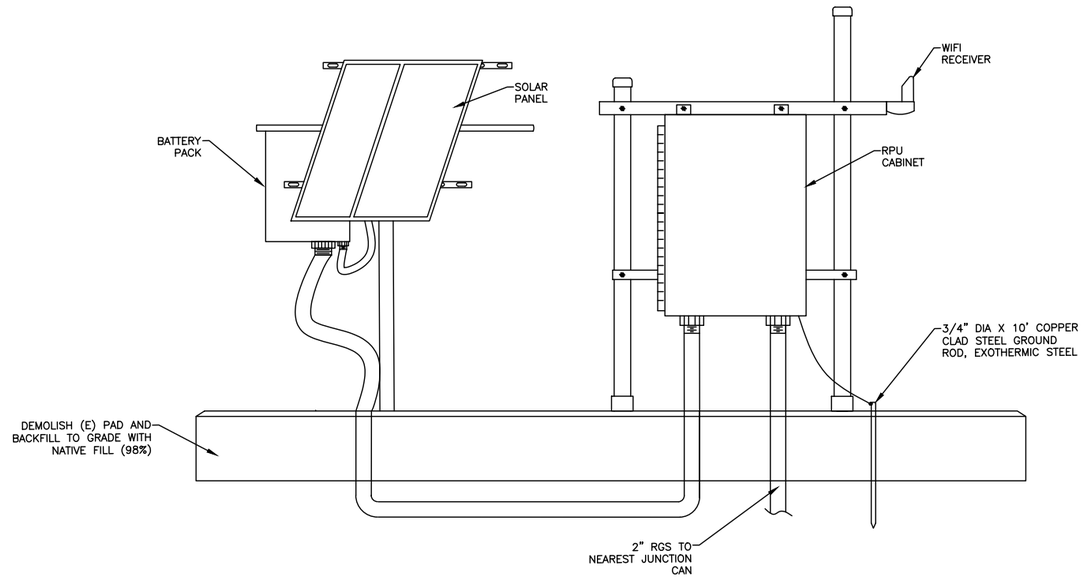
NOTES:

ALL ABOVE GROUND EQUIPMENT TO BE SALVAGED AND DELIVERED TO AIRPORT MAINTENANCE FOR SPARE PARTS.

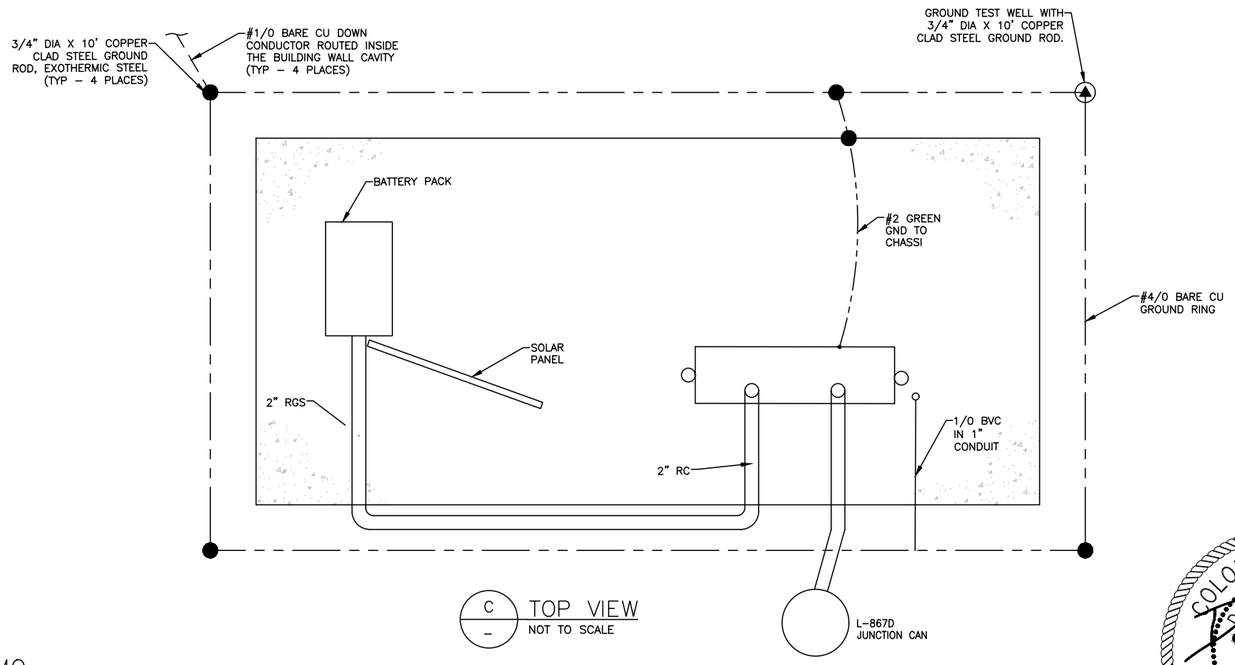
A PICTURE OF EXISTING RPU
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.




B SIDE VIEW
NOT TO SCALE




C TOP VIEW
NOT TO SCALE

1 RPU–NORTH – DEMO
NOT TO SCALE




CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

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| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

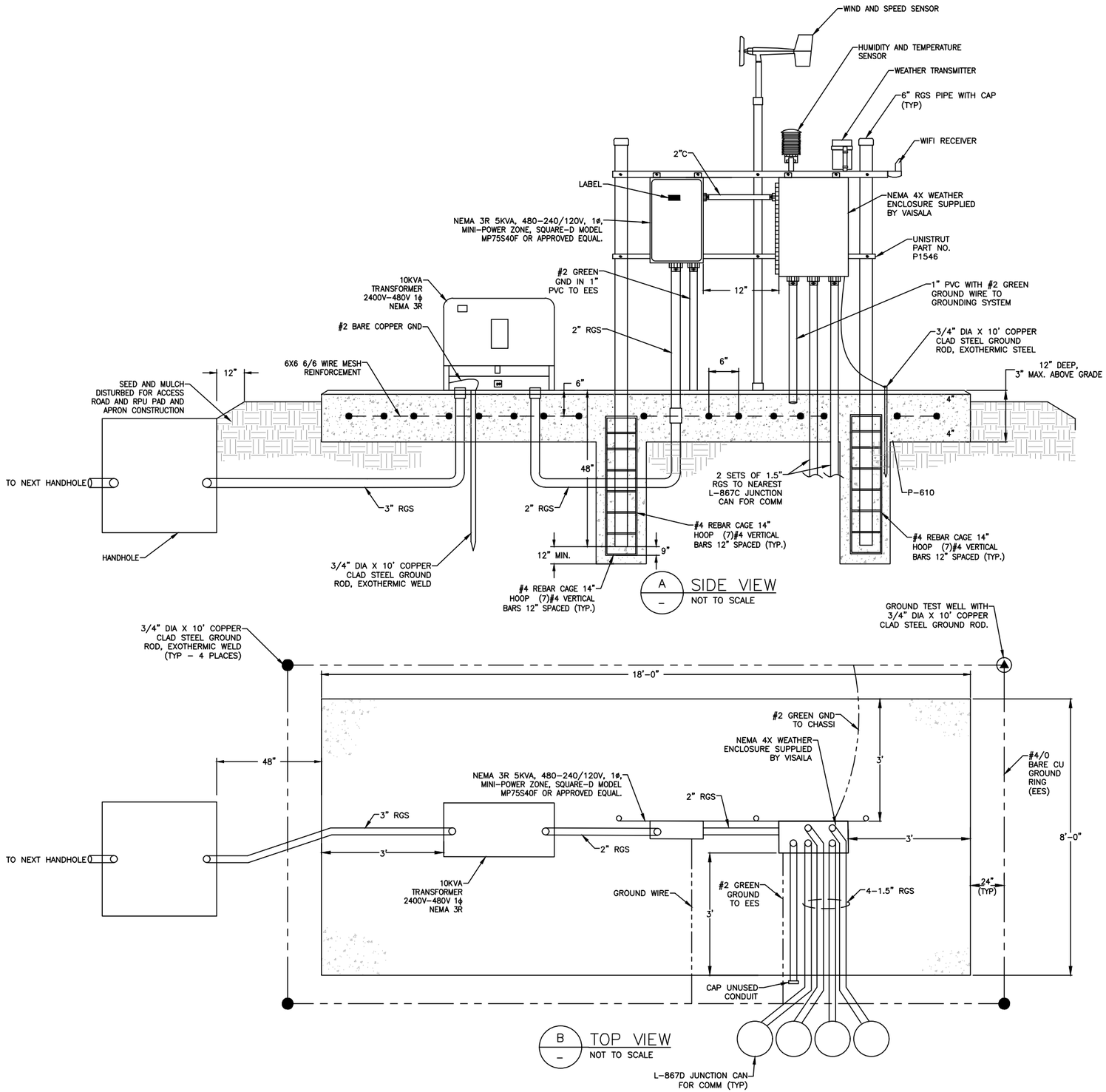
SHEET TITLE

RPU-NORTH REMOVAL

SHEET NO. EL552
268 OF 396

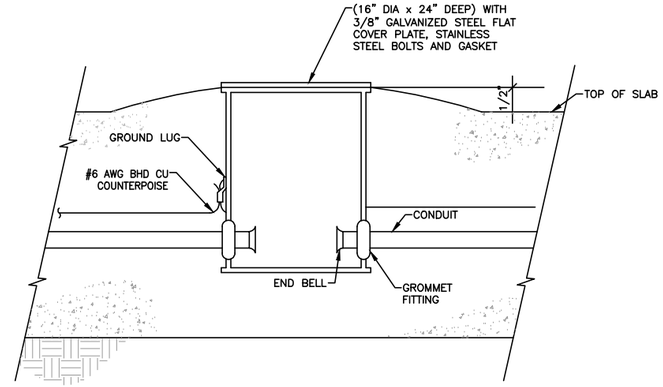
CADD FILE NO. _201735882-B1EELD-5264

D:\Dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELD-5264.dwg Feb 13, 2019 – 4:10pm Kat




NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.
2. PERFORM POT-HOLING & UTILITY SURVEY. BLUE-STAKE CONFIGURATION OF ELECTRICAL EQUIPMENT & OBTAIN ENGINEER'S APPROVAL PRIOR TO EXCAVATION.




C
L-867 BASE CAN INSTALLATION
NOT TO SCALE

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
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| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | ADDENDUM 2 | 1/17/19 | DL |
| 5 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

RPU-SOUTH NEW

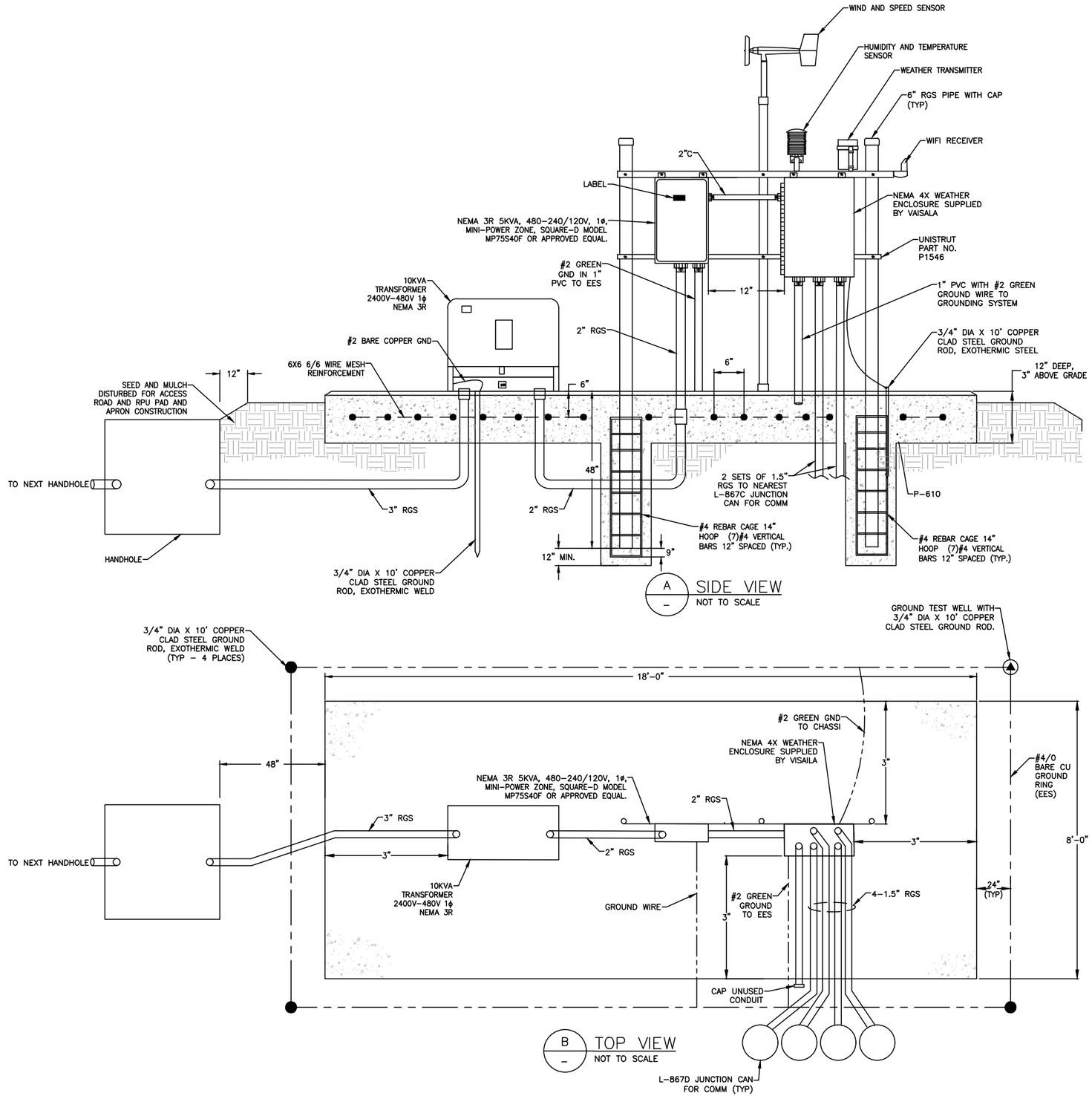
SHEET NO. EL553

269 OF 396

CADD FILE NO. _201735882-B1EELD-5264

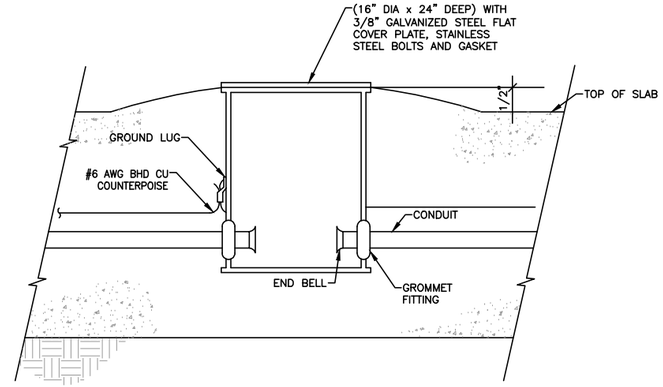
COLORADO LICENSED TYSON LEAN 52246 2/15/19 PROFESSIONAL ENGINEER

D:\dropbox (lean photometrics)\active projects\1571801a rsh den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELD-5264.dwg Feb 13, 2019 - 4:20pm Kat




NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.
2. PERFORM POT-HOLING & UTILITY SURVEY. BLUE-STAKE CONFIGURATION OF ELECTRICAL EQUIPMENT & OBTAIN ENGINEER'S APPROVAL PRIOR TO EXCAVATION.




C
L-867 BASE CAN INSTALLATION
NOT TO SCALE

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | ADDENDUM 2 | 1/17/19 | DL |
| 5 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

RPU-NORTH NEW

SHEET NO. EL554

270 OF 396

CADD FILE NO. _201735882-B1EELD-5264

COLORADO LICENSED
TYSON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

D:\dropbox (lean photometrics)\active projects\1517801a rsh den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELD-5264.dwg Feb 13, 2019 - 4:20pm Kat

NOTES:

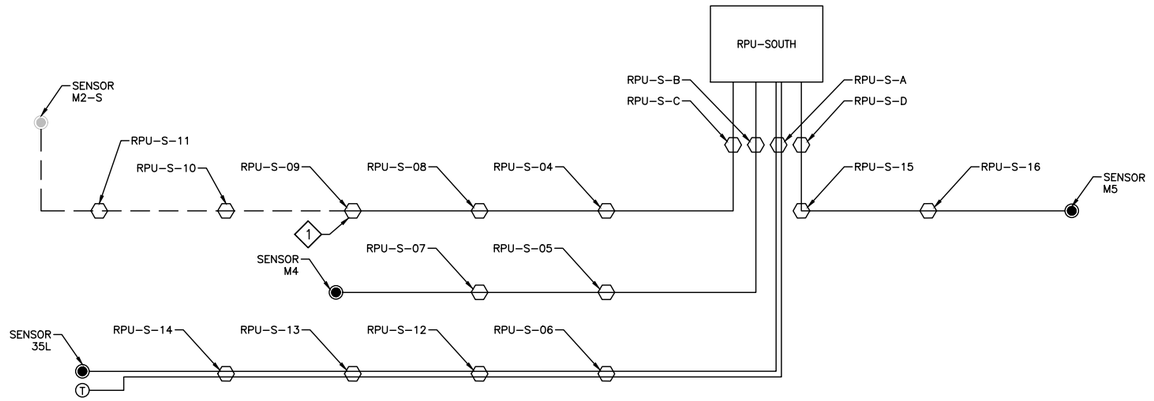
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

KEY NOTES:

(1) SLICE EXISTING SSI CABLE INTO NEW SSI CABLE.

LEGEND:

- EXISTING TYPE V SSI CABLE
- NEW TYPE V SSI CABLE
- EXISTING SURFACE SCAN SENSOR
- NEW SURFACE SCAN SENSOR
- ELECTRICAL MANHOLE
- (T) NEW TEMPERATURE PROBE




1 / _ RPU-SOUTH – SINGLE LINE
NOT TO SCALE

COLORADO LICENSED
TARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

RPU-SOUTH SINGLE LINE

SHEET NO. EL555

271 OF 396

CADD FILE NO. _201735882-B1EELD-5264

D:\dropbox (lean photometrics)\active projects\1157180\a rah den 17-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELD-5264.dwg Feb 13, 2019 - 4:10pm Kat

NOTES:

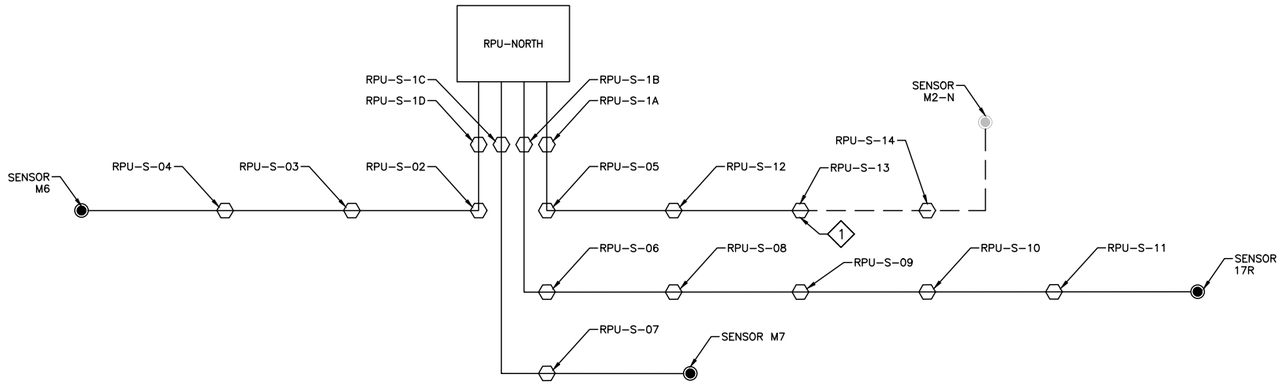
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

KEY NOTES:

(1) SLICE EXISTING SSI CABLE INTO NEW SSI CABLE.

LEGEND:

- EXISTING TYPE V SSI CABLE
- NEW TYPE V SSI CABLE
- EXISTING SURFACE SCAN SENSOR
- NEW SURFACE SCAN SENSOR
- ELECTRICAL MANHOLE
- (T) NEW TEMPERATURE PROBE




1 / _ RPU-NORTH – SINGLE LINE
NOT TO SCALE

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201946271

VOLUME NO.

SHEET TITLE

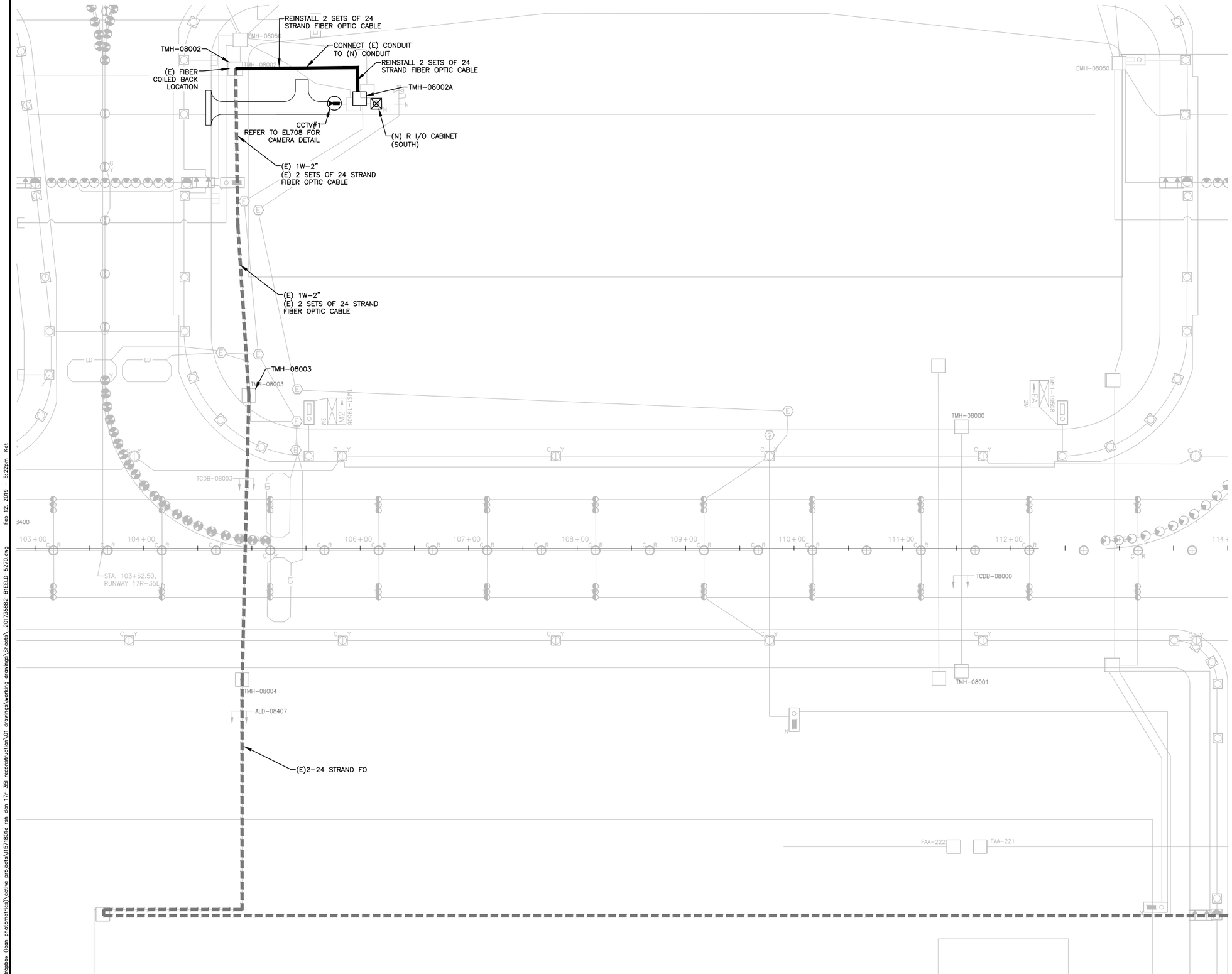
RPU-NORTH SINGLE LINE

SHEET NO. EL556
272 OF 396

CADD FILE NO. _201735882-B1EELD-5264

COLORADO LICENSED
CARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

D:\Dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELD-5264.dwg Feb 13, 2019 - 4:10pm Kat




CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CCTV□1 ENLARGEMENT

SHEET NO. EL561



CADD FILE NO. _201735882-B1EELD-5270

COLORADO LICENSED DORON LEAN 52246 2/15/19 PROFESSIONAL ENGINEER

D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELD-5270.dwg Feb 12, 2019 - 5:22pm Kat

CCTV#2
REFER TO EL708 FOR CAMERA DETAIL

TMH-08005A

(N) R I/O CABINET (NORTH)

(N) 1W-2" (N) 2 SETS OF 24 STRAND FIBER OPTIC CABLE

CONNECT (E) CONDUIT TO (N) CONDUIT

(E) 1W-2" (N) 2 SETS OF 24 STRAND FIBER OPTIC CABLE

TMH-08005

FIBER SPLICE

TCDB-08(

TCDB-08406

206+00 207+00 208+00 209+00 210+00 211+00 212+00 213+00 214+00 215+00

ALD-08406

STA. 2
RUNWAY

TCDB-08005

TMH-08006

(E)2-24 STRAND FO

TCDB-08408

TMH-08007

TCDB-08204

NORTH

D:\dropbox (lean photometrics)\active projects\15718\01a rah den 17r-35l reconstruction\01 drawings\working drawings\sheets_201735882-B1EELD-5270.dwg Feb 12, 2019 - 5:22pm Kat

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CCTV□2 ENLARGEMENT

SHEET NO. EL562

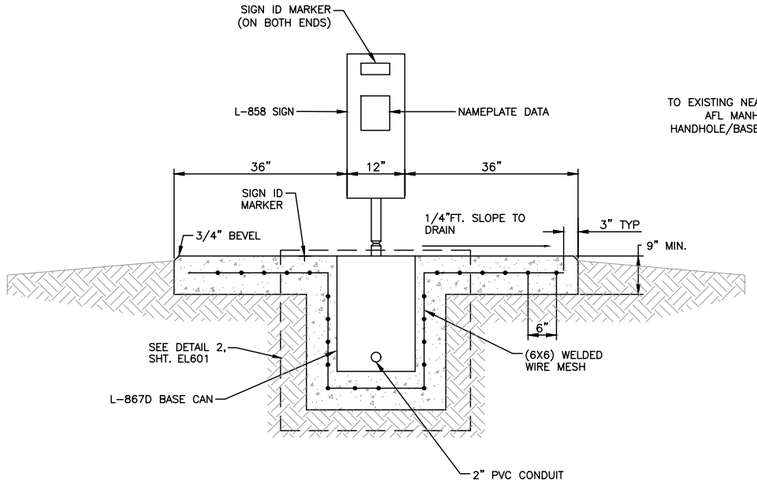


CADD FILE NO. _201735882-B1EELD-5270

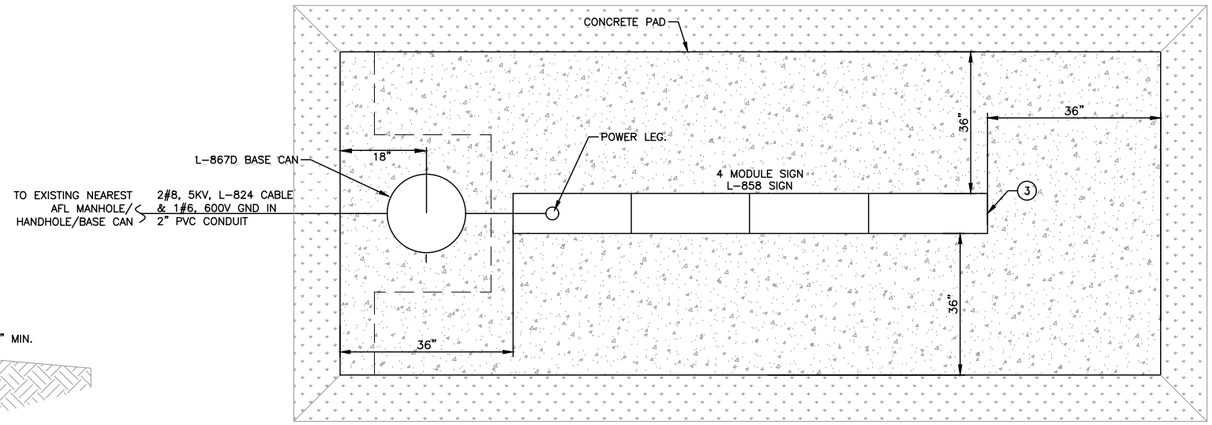
COLORADO LICENSED
DARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.




SIDE VIEW




PLAN VIEW

KEY NOTES:

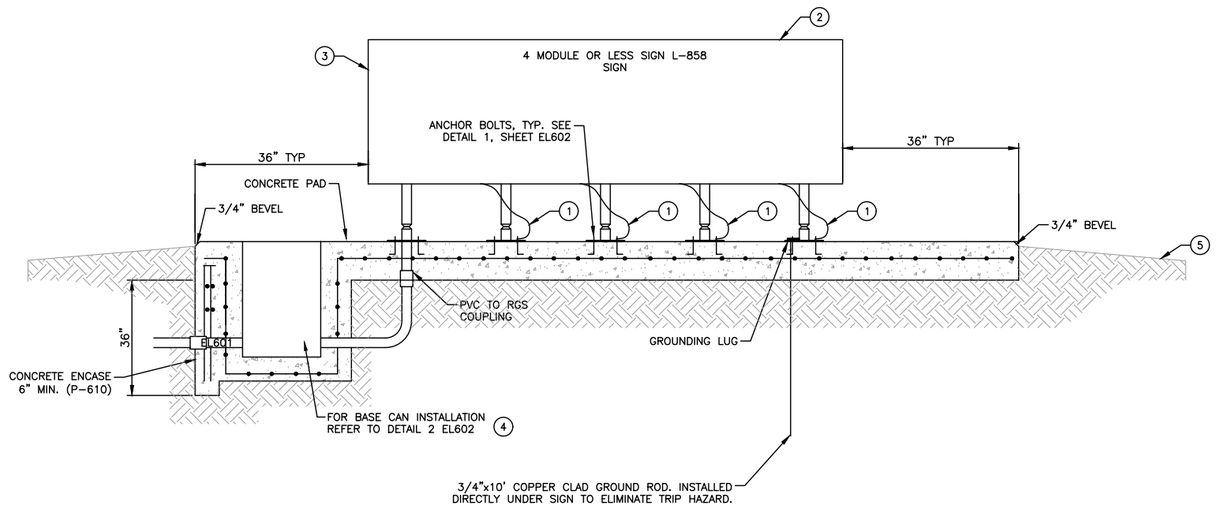
(1) TETHER. MINIMUM 1 PER MODULE AND AT LEAST 2 TETHERS PER SIGN.

(2) INSTALL NEW SIGNS PER MANUFACTURER MOUNTING PLATE TEMPLATE, RECOMMENDATIONS, AND INSTRUCTIONS. NUMBER AND SPACING OF LEGS AS PER MANUFACTURERS REQUIREMENTS.

(3) PROVIDE GUIDANCE SIGN IDENTIFICATION MARKER ON EACH END OF THE SIGN (TOTAL OF TWO MARKERS PER SIGN).

(4) INSTALL (N) TRANSFORMER & CONNECTOR PER DETAIL 2 ON EL602.

(5) GRADE AREA PRIOR TO INSTALLATION PER CIVIL DRAWINGS.




FRONT VIEW

1 / – NEW LIGHTED GUIDANCE SIGNS 4 MODULES OR LESS INSTALLATION DETAILS ON NEW FOUNDATION

NOT TO SCALE

COLORADO LICENSED
TORON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE: SIGNAGE DETAIL 1

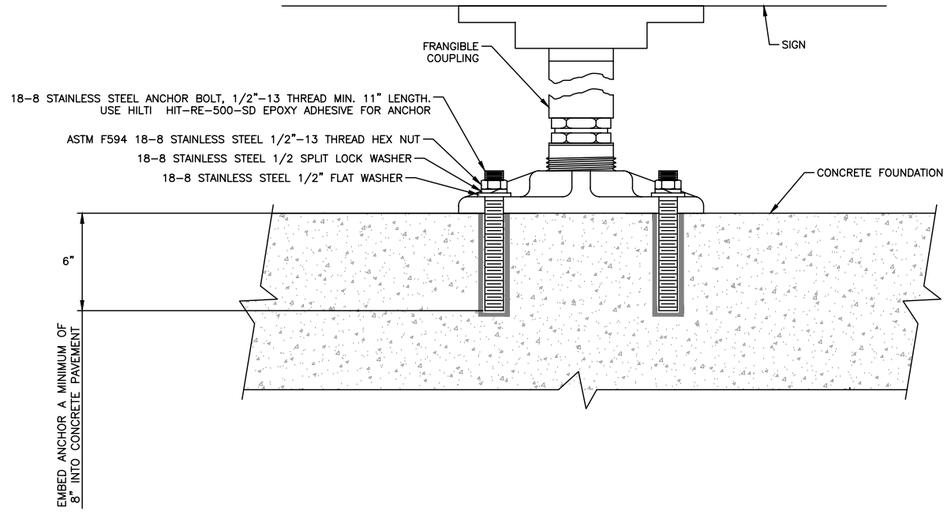
SHEET NO. EL601
275 OF 396

CADD FILE NO. _201735882-B1EELD-5272

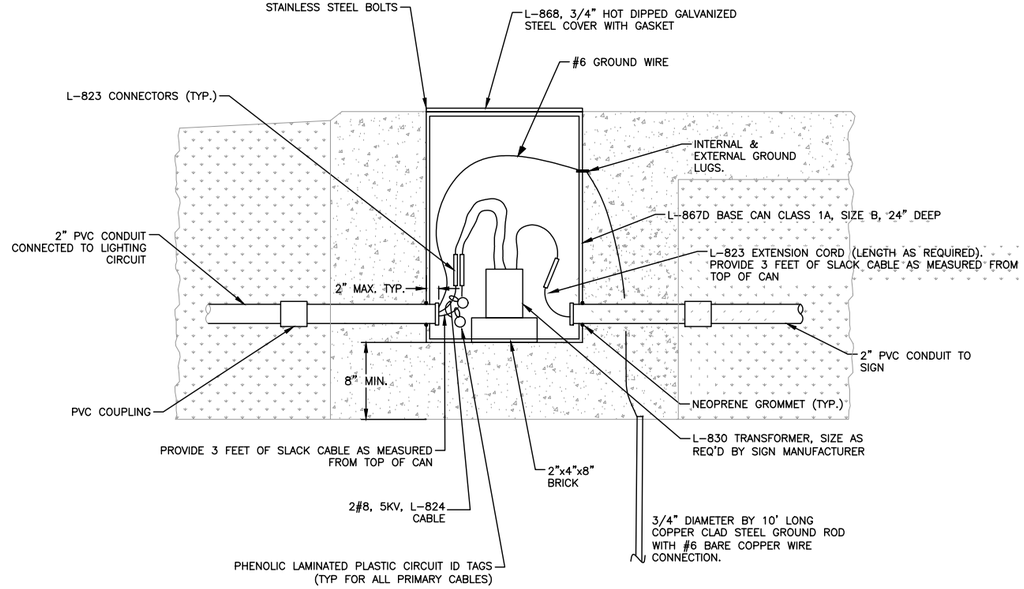
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NOTES:

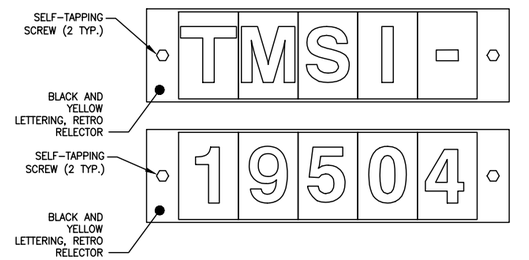
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.




1 / _ ANCHOLR BOLT DETAIL – NEW OR EXISTING CONCRETE SIGN FOUNDATION
NOT TO SCALE




2 / _ NEW AIRFIELD SIGN GUIDANCE BASE CAN DETAIL
NOT TO SCALE




NOTE:
1. PROVIDE MINIMUM 2" TALL LETTERING (2 ROWS).
2. INSTALL 2 SETS OF ID MARKERS ON EACH SIDE OF THE SIGN.

3 / _ TYPICAL SIGN ID TAG
NOT TO SCALE




CITY & COUNTY of DENVER

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# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | ADDENDUM 2 | 1/17/19 | DL |
| 5 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

SIGNAGE DETAIL 2

SHEET NO. EL602



CADD FILE NO. _201735882-B1EELD-5272

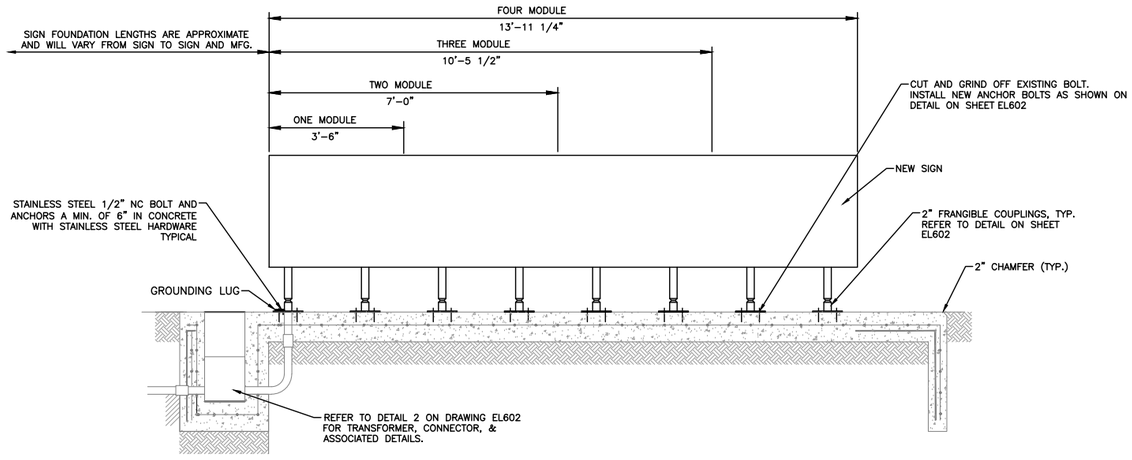
D:\Dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELD-5272.dwg Feb 12, 2019 - 5:22pm Kat

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. (R) EXISTING BOLTS BY CUTTING THEM FLAT WITH SURFACE.
2. PROTECT EXISTING GROUND WIRE TO GROUND ROD.




FRONT VIEW

1 NEW GUIDANCE SIGN ON EXISTING SIGN FOUNDATION
NOT TO SCALE

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LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

SIGNAGE DETAIL 3

SHEET NO. EL603

277 OF 396

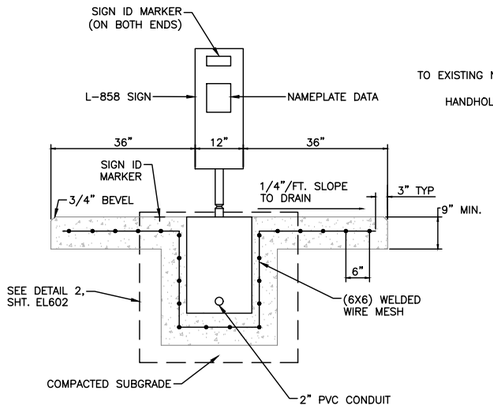
CADD FILE NO. _201735882-B1EELD-5272

COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

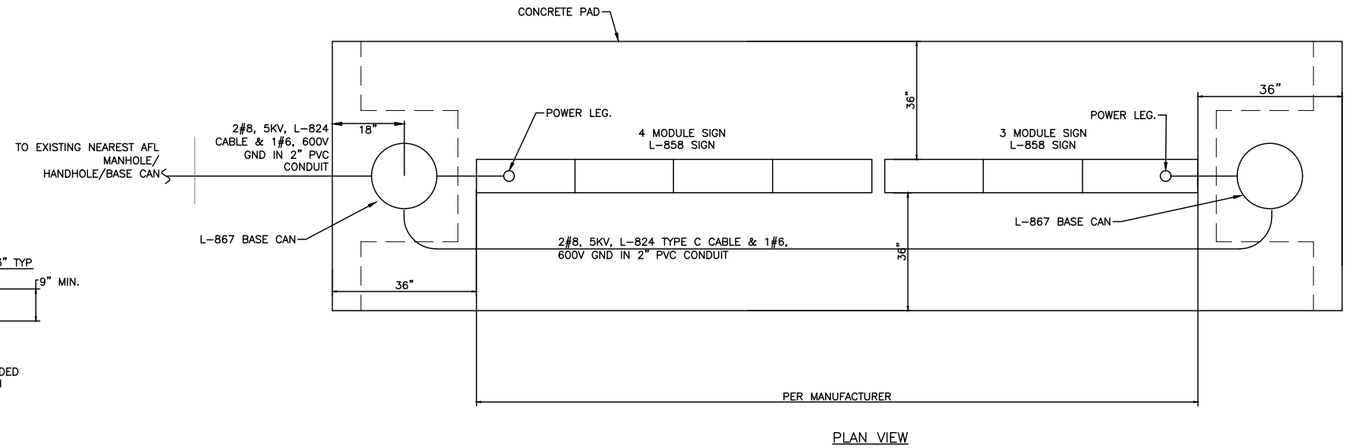
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.



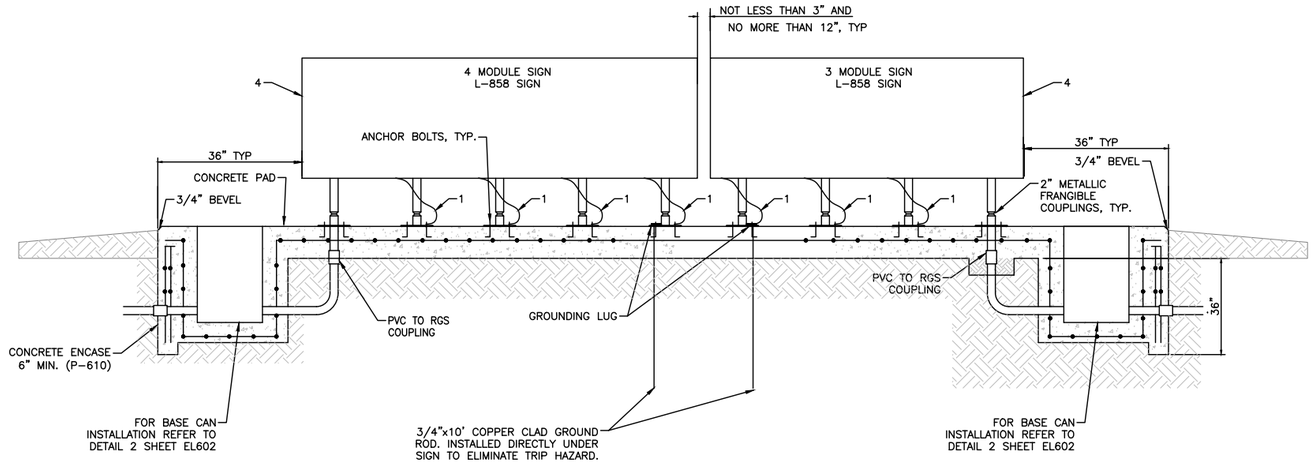

SIDE VIEW




PLAN VIEW

## KEY NOTES:

1. TETHER. MINIMUM 1 PER MODULE AND AT LEAST 2 TETHERS PER SIGN.
2. INSTALL NEW SIGNS PER MANUFACTURER MOUNTING PLATE TEMPLATE, RECOMMENDATIONS, AND INSTRUCTIONS. NUMBER AND SPACING OF LEGS AS PER MANUFACTURERS REQUIREMENTS.
3. PROVIDE 2 EACH L-830 ISOLATION TRANSFORMERS: ONE FOR THE 4-MOD SIGN AND ONE FOR THE 3-MOD SIGN TO MATCH EACH TOTAL SIGN VA LOAD PER MANUFACTURER'S RECOMMENDATION. PROVIDE NEW L-823 EXTENSION CORDSETS OF REQUIRED LENGTH.
4. PROVIDE GUIDANCE SIGN IDENTIFICATION MARKER ON EACH END OF THE SIGN (TOTAL OF TWO MARKERS PER SIGN).
5. ASSURE EXISTING FOUNDATION OF SAME SIZE AND DIMENSIONS REQUIRES DEMOLITION AND REMOVAL.




FRONT VIEW

1 NEW LIGHTED GUIDANCE SIGNS LARGER THAN 4 MODULES INSTALLATION DETAILS ON NEW FOUNDATION

NOT TO SCALE




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DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE: SIGNAGE DETAIL 4

SHEET NO. EL604
278 OF 396

CADD FILE NO. _201735882-B1EELD-5272

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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

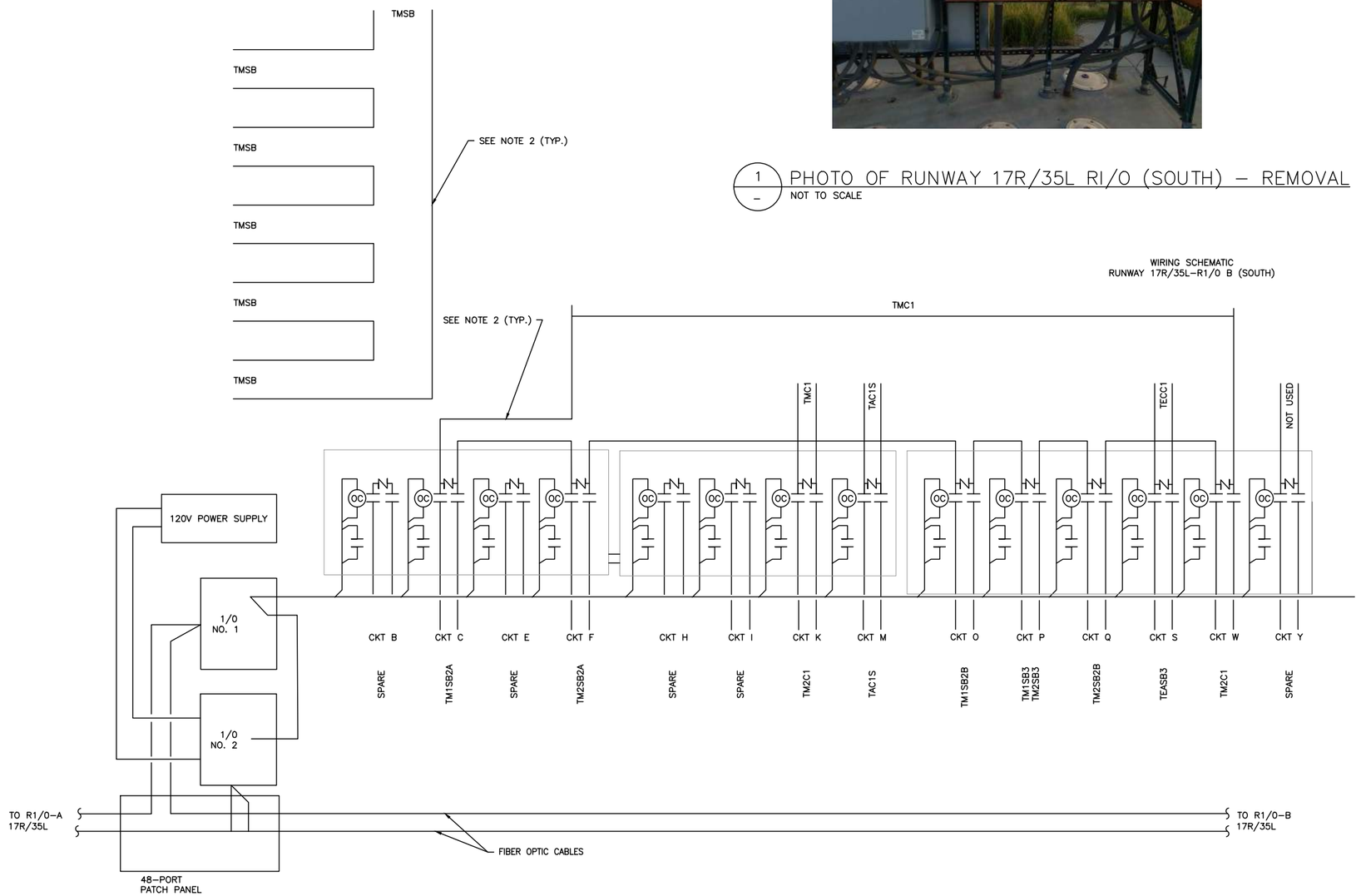
SHEET NOTES:

1. PRIOR TO DEMOLITION OF EXISTING REMOTE I/O CABINET, CONTRACTOR SHALL SURVEY AND FIELD VERIFY THE EXISTING ROUTING AND WIRING FOR THE AIRFIELD LIGHTING CIRCUITS, INDUCTION LOOPS, AND FIBER CONTROL CABLE. PROVIDE ROUTING AND CONFIRMATION OF EXISTING CIRCUITS IN A SHOP DRAWING TO BE PROVIDED TO THE AIRPORT FOR APPROVAL. PROVIDE A PULLING PLAN FOR THE NEW CABLE AS PART OF THE SHOP DRAWING. CONTRACTOR SHALL NOT DEMOLISH EXISTING REMOTE I/O CABINET UNTIL SHOP DRAWING AND PULLING PAN HAS BEEN APPROVED.
2. DEMOLISH EXISTING FOUNDATION, CONDUITS, AND EQUIPMENT, AND BACKFILL IN KIND. REMOVE ALL CIRCUITS TO NEAREST HANDHOLE AND AS SHOWN ON THE DRAWINGS.



1 / – PHOTO OF RUNWAY 17R/35L RI/O (SOUTH) – REMOVAL
NOT TO SCALE

WIRING SCHEMATIC
RUNWAY 17R/35L-R1/0 B (SOUTH)




2 / – RI/O SOUTH EXISTING SINGLE LINE – REMOVAL
NOT TO SCALE

COLORADO LICENSED
TRAVIS LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

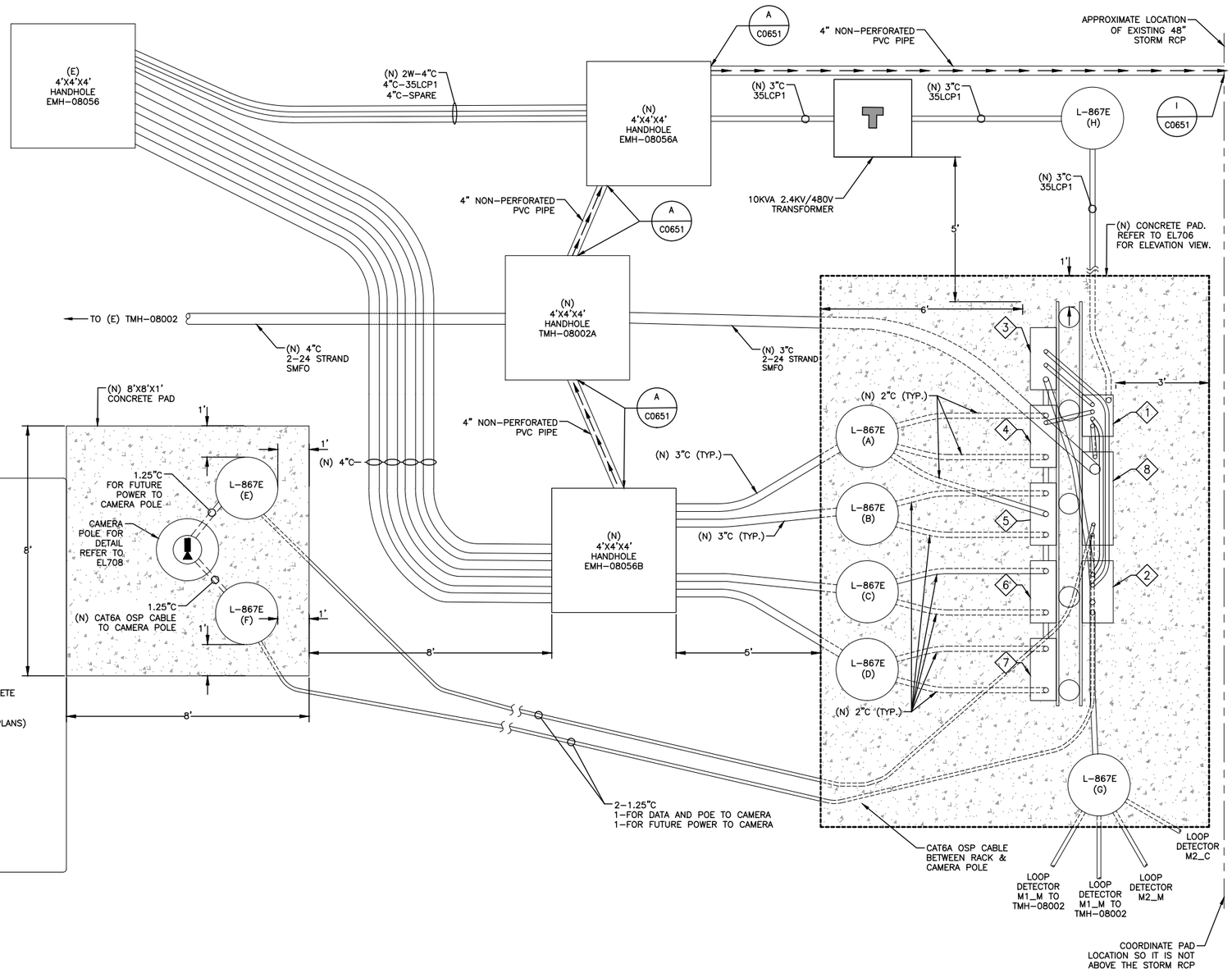
# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: RI/O SOUTH REMOVAL
SHEET NO. EL701
279 OF 396
CADD FILE NO. _201735882-B1EELD-5276

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1 / – 17R-35L R I/O SOUTH CABINET – NEW LAYOUT
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.
2. CONTRACTOR MUST PERFORM UTILITY SURVEY & POT-HOLING OF EXISTING UTILITIES AND PROVIDE CAD DRAWING SHOWING LOCATION OF ANY EXISTING UTILITES AND PROPOSED LOCATION OF (N) EQUIPMENT.

KEY NOTES:

1. MINI POWER ZONE, NEMA 3R, 480-240/120V, 5KVA, 1ϕ SQARED MPZ5S40F (16"x41"x12") OR APPROVED EQUAL.
2. DIGITAL LOOP DETECTOR ENCLOSURE (24"x30"x12").
3. ADVANCED CONTROL EQUIPMENT (ACE) ENCLOSURE (24"x30"x10").
4. CIRCUIT SELECTOR SWITCH #1 (24"x30"x10").
5. CIRCUIT SELECTOR SWITCH #2 (24"x30"x10").
6. CIRCUIT SELECTOR SWITCH #3 (24"x30"x10").
7. CIRCUIT SELECTOR SWITCH #4 (24"x30"x10").
8. IT CABINET ENCLOSURE (36"x48"x12"). REFER TO EL708 FOR IT CABINET DETAILS.

LEGEND:

L-867E (X) — NEW L-867E BASE CAN (X) DENOTES BASE CAN DESIGNATION.

NEW CONDUIT

DRAIN PIPE. ARROW INDICATES DIRECTION OF FLOW.

NEW 10KVA 2.4KV/480V TRANSFORMER

(N) 4X4 HANDHOLE EMH-XXXX — NEW 4X4 HANDHOLE

NEW CCTV CAMERA

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

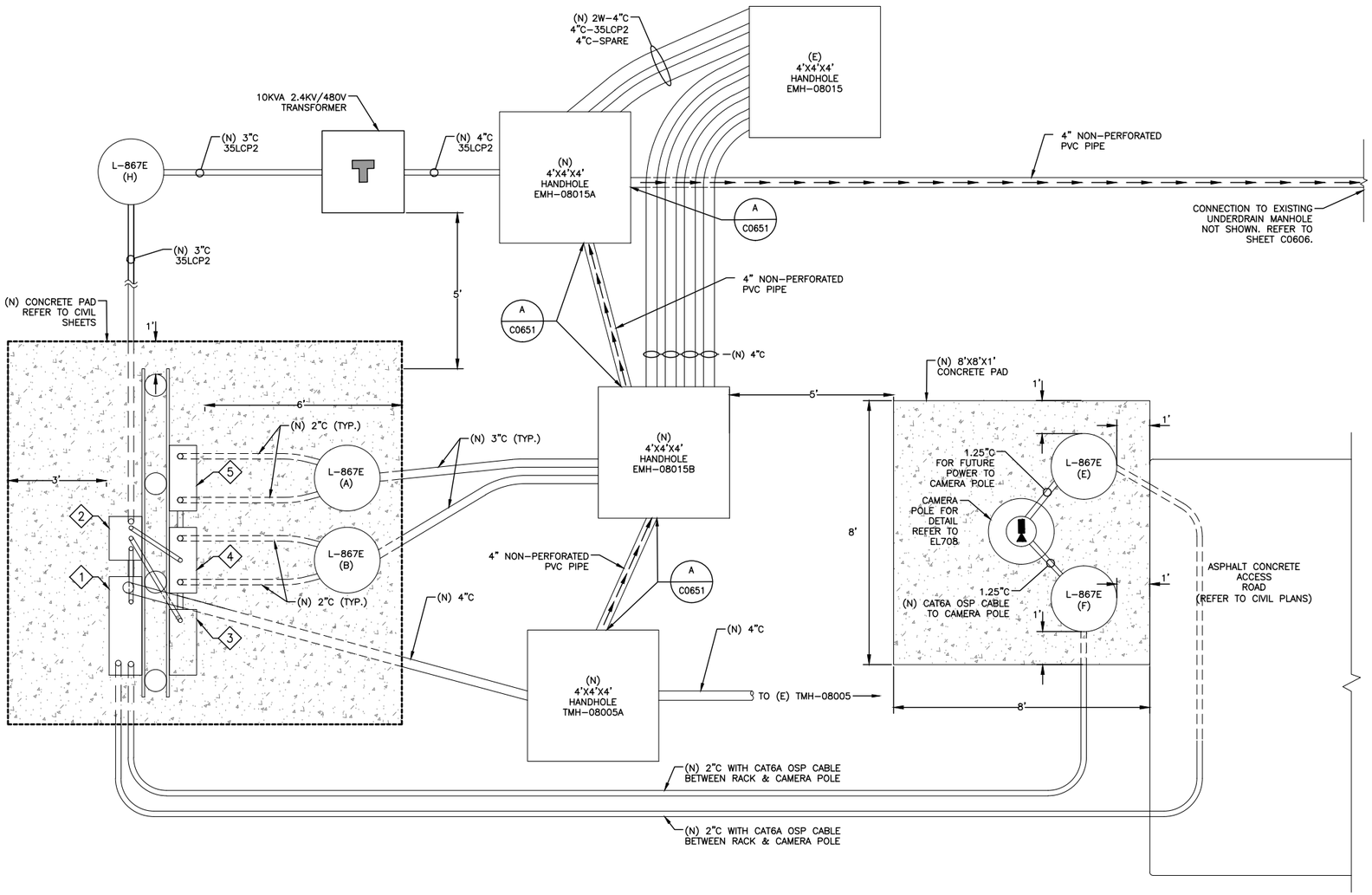
ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: 17R-35L RI/O SOUTH CABINET NEW LAYOUT
SHEET NO. EL702
280 OF 396
CADD FILE NO. _201735882-B1EELD-5276

COLORADO LICENSED
TYSON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

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1 / _ 17R-35L R I/O NORTH CABINET – NEW LAYOUT
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.
2. CONTRACTOR MUST PERFORM UTILITY SURVEY & POT-HOLING OF EXISTING UTILITIES AND PROVIDE CAD DRAWING SHOWING LOCATION OF ANY EXISTING UTILITES AND PROPOSED LOCATION OF (N) EQUIPMENT.

KEY NOTES:

1. IT CABINET ENCLOSURE (36"x48"x12"). REFER TO EL708 FOR IT CABINET DETAILS.
2. MINI POWER ZONE, NEMA 3R, 480-240/120V, 5KVA, 1ϕ SQARED MPZ5S40F (16"x41"x12") OR APPROVED EQUAL.
3. ADVANCED CONTROL EQUIPMENT (ACE) ENCLOSURE (24"x30"x10").
4. CIRCUIT SELECTOR SWITCH #1 (24"x30"x10").
5. CIRCUIT SELECTOR SWITCH #2 (24"x30"x10").

LEGEND:

- L-867E (X) — NEW L-867E BASE CAN (X) DENOTES BASE CAN DESIGNATION.
- NEW CONDUIT
- DRAIN PIPE. ARROW INDICATES DIRECTION OF FLOW.
- NEW 10KVA 2.4KV/480V TRANSFORMER
- (N) 4X4 HANDHOLE EMH-XXXX
- NEW CCTV CAMERA

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# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: 17R-35L RI/O NORTH CABINET NEW LAYOUT
SHEET NO. EL703
281 OF 396
CADD FILE NO. _201735882-B1EELD-5276

COLORADO LICENSED
EDRON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

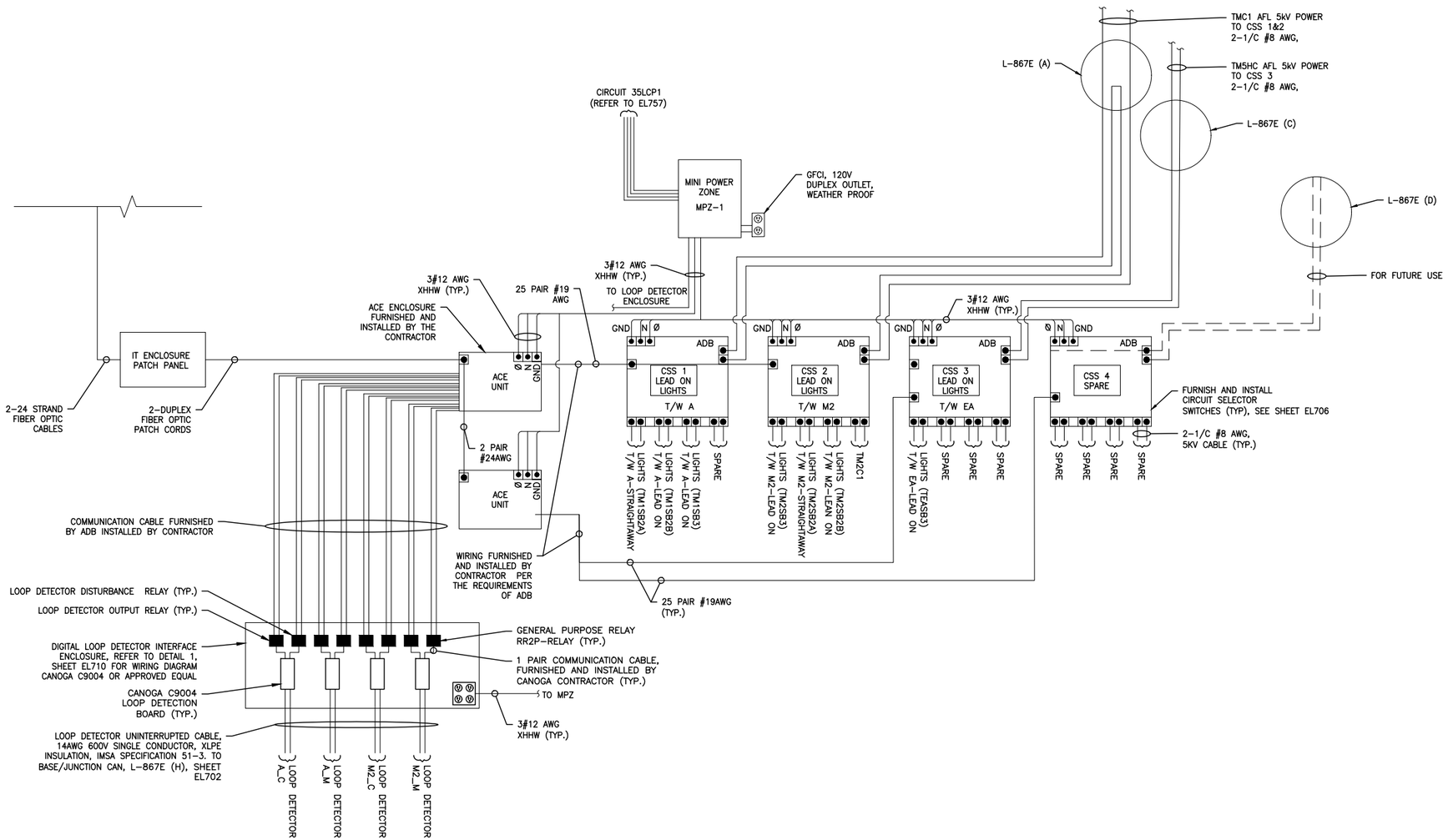
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. ALL EQUIPMENT SHALL BE NEW.




1 / _ RUNWAY 17R-35L SOUTH RI/O – CIRCUIT SELECTOR SWITCH RACK WIRING DIAGRAM

NOT TO SCALE

CITY & COUNTY of DENVER

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RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE: RUNWAY 17R-35L SOUTH RI/O CSS WIRING DIAGRAM

SHEET NO. EL704

282 OF 396

CADD FILE NO. _201735882-B1EELD-5276

COLORADO LICENSED DORON LEAN 52246 2/15/19 PROFESSIONAL ENGINEER

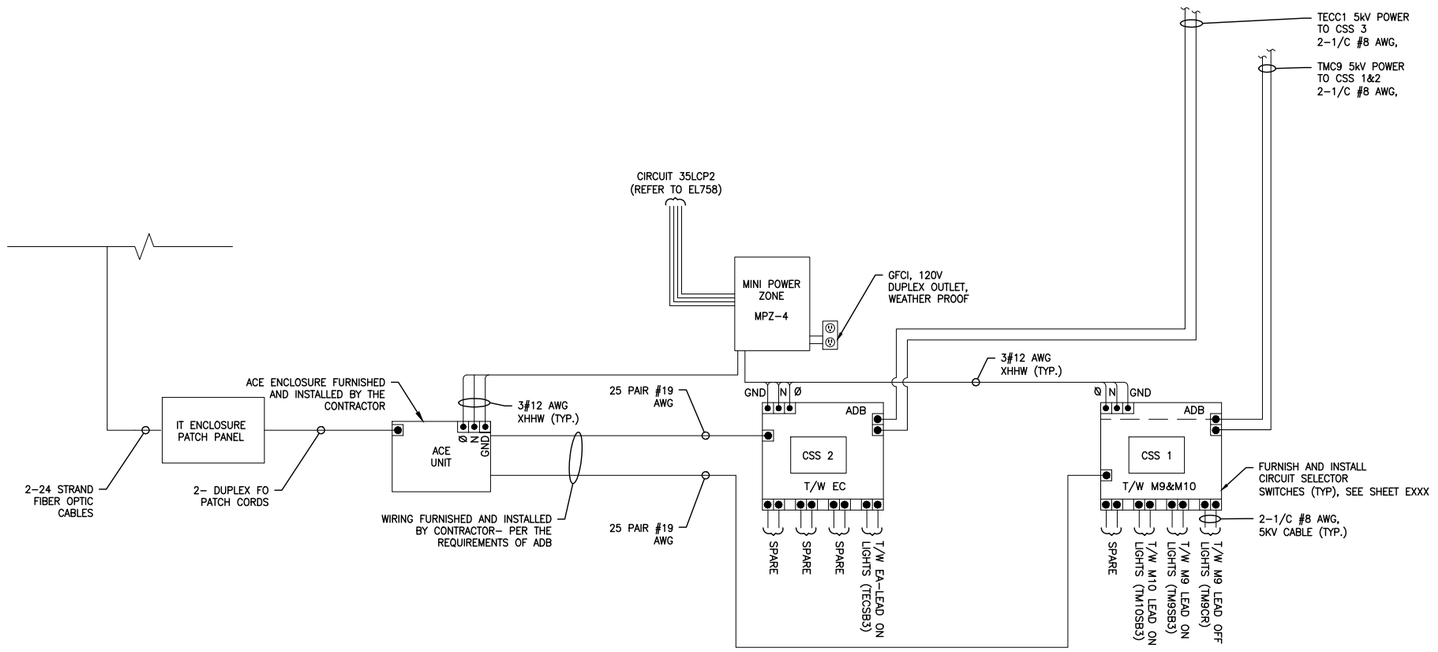
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. ALL EQUIPMENT SHALL BE NEW.




1 / _ RUNWAY 17R-35L NORTH RI/O – CIRCUIT SELECTOR SWITCH RACK WIRING DIAGRAM
NOT TO SCALE

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

RUNWAY 17R-35L NORTH RI/O CSS WIRING DIAGRAM

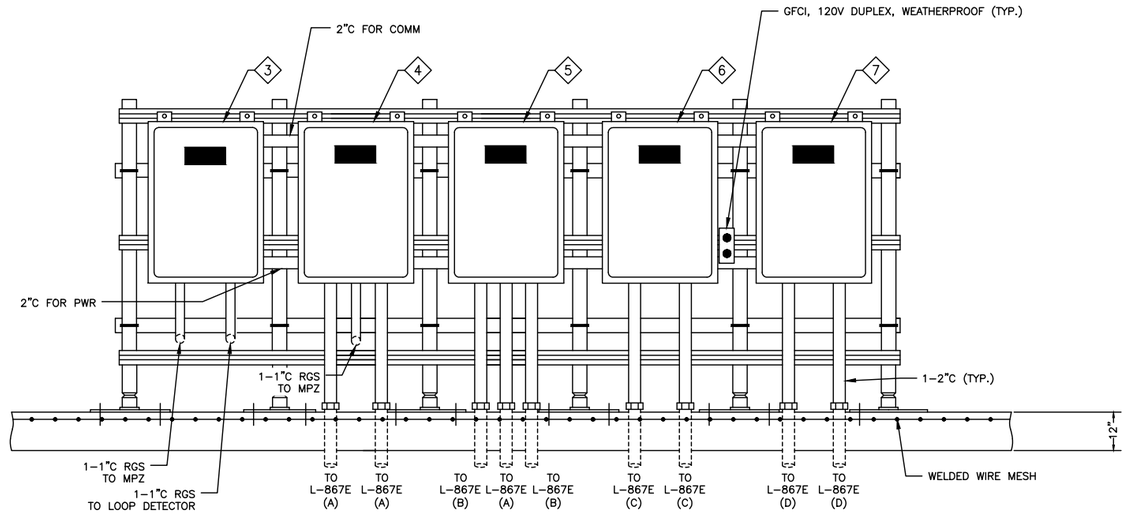
SHEET NO. EL705



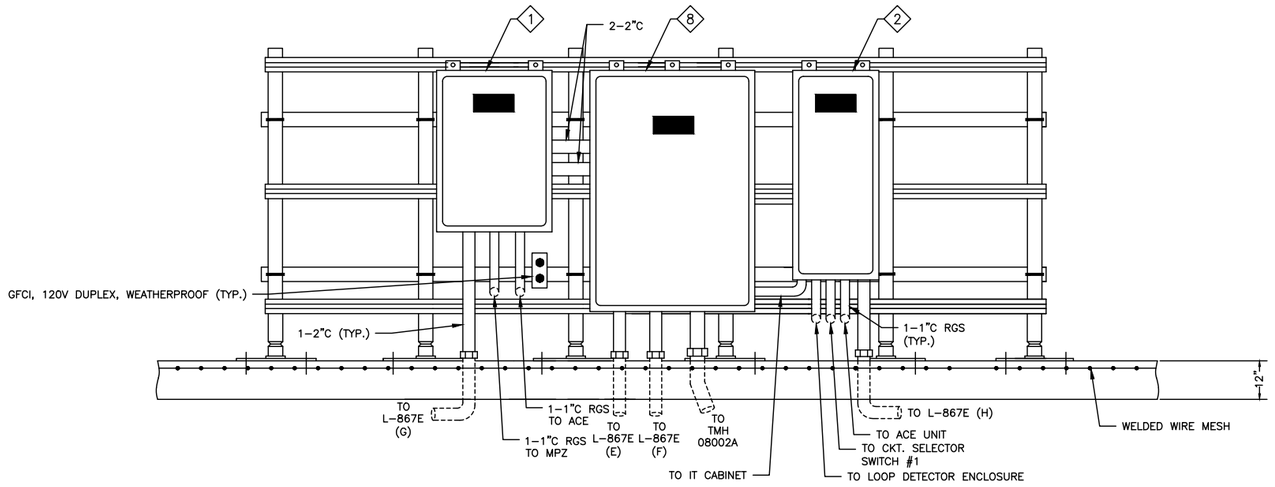
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COLORADO LICENSED TERON LEA 52246 2/15/19 PROFESSIONAL ENGINEER

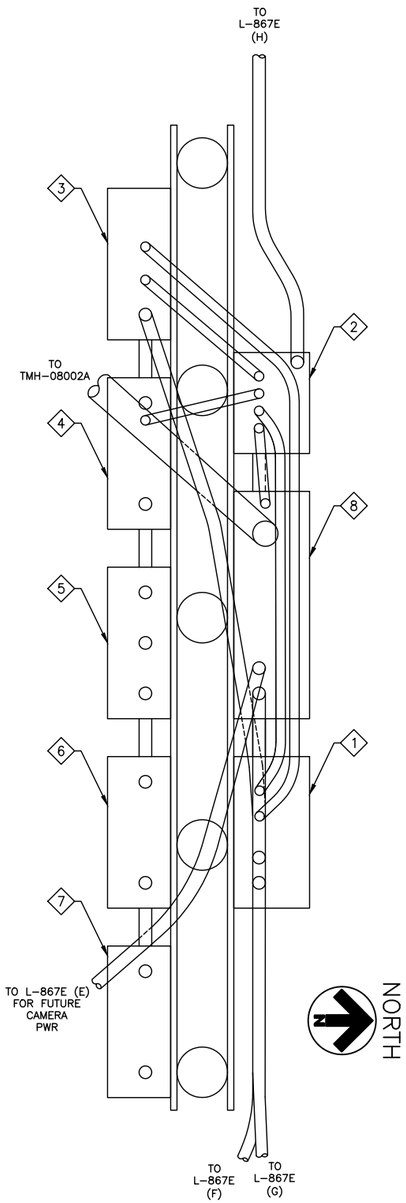
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1 / – SOUTH RI/O CABINET – SOUTH FACING ELEVATION – NEW
NOT TO SCALE




2 / – SOUTH RI/O CABINET – NORTH FACING ELEVATION – NEW
NOT TO SCALE




3 / – SOUTH RI/O CABINET – TOP VIEW
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. REFER TO EL702 FOR BASE CAN DESIGNATION.

KEY NOTES:

1. DIGITAL LOOP DETECTOR ENCLOSURE (24"x30"x12").
2. MINI POWER ZONE, NEMA 3R, 480-240/120V, 5KVA, 1ϕ SQARED MPZ5S40F (16"x41"x12") OR APPROVED EQUAL.
3. ADVANCED CONTROL EQUIPMENT (ACE) ENCLOSURE (24"x30"x10").
4. CIRCUIT SELECTOR SWITCH #1 (24"x30"x10").
5. CIRCUIT SELECTOR SWITCH #2 (24"x30"x10").
6. CIRCUIT SELECTOR SWITCH #3 (24"x30"x10").
7. CIRCUIT SELECTOR SWITCH #4 (24"x30"x10").
8. IT CABINET ENCLOSURE (36"x48"x12"). REFER TO EL708 FOR IT CABINET DETAILS.

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

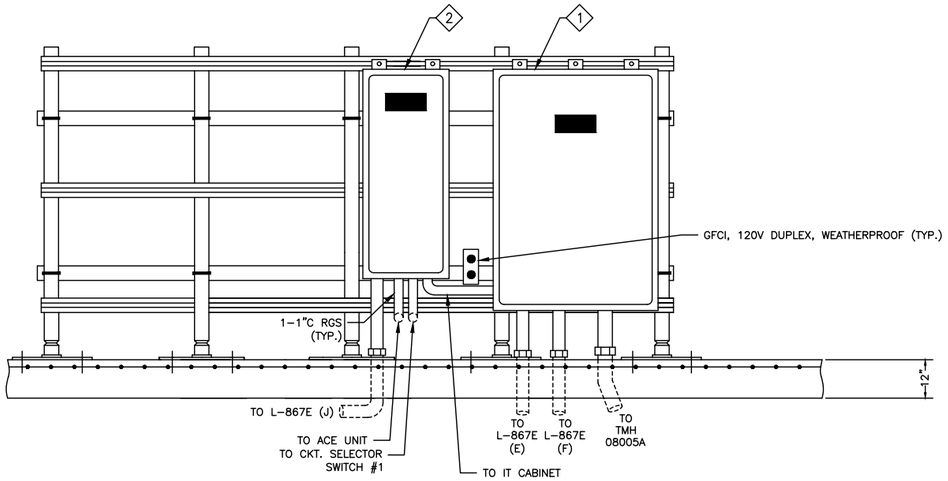
SHEET TITLE: SOUTH RI/O CABINET ELEVATION

SHEET NO. EL706
284 OF 396

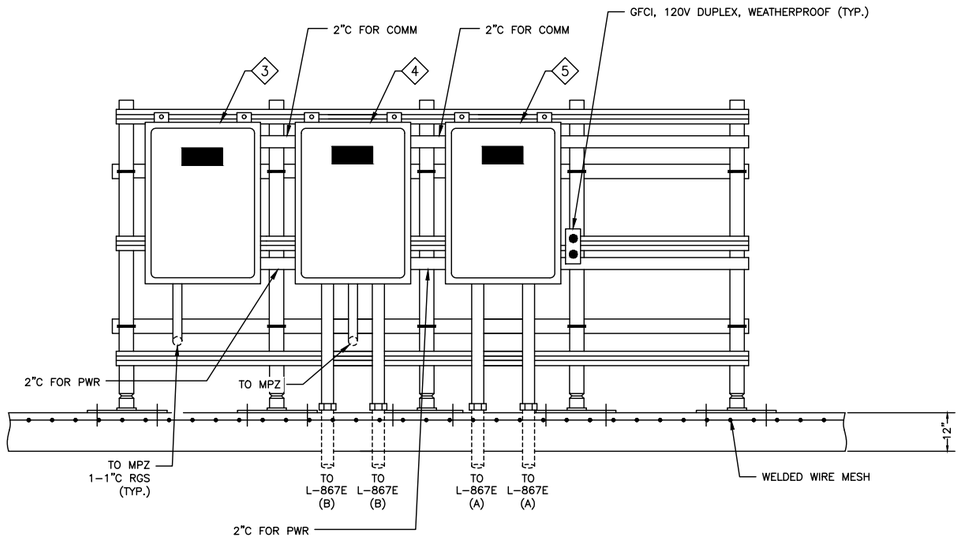
CADD FILE NO. _201735882-B1EELD-5276

COLORADO LICENSED
TERON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

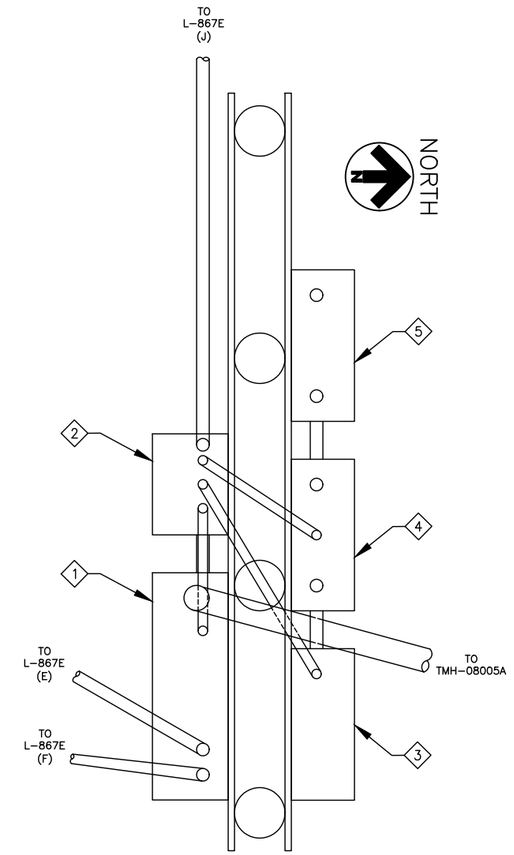
Feb 12, 2019 - 5:23pm Kat
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1 / – NORTH RI/O CABINET – SOUTH FACING ELEVATION – NEW
NOT TO SCALE




2 / – NORTH RI/O CABINET – NORTH FACING ELEVATION – NEW
NOT TO SCALE




3 / – NORTH RI/O CABINET – TOP VIEW
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. REFER TO EL703 FOR BASE CAN DESIGNATION.

KEY NOTES:

1. IT CABINET ENCLOSURE (36"x48"x12"). REFER TO EL708 FOR IT CABINET DETAILS.
2. MINI POWER ZONE, NEMA 3R, 480-240/120V, 5KVA, 1ϕ SQARED MPZ5S40F (16"x41"x12") OR APPROVED EQUAL.
3. ADVANCED CONTROL EQUIPMENT (ACE) ENCLOSURE (24"x30"x10").
4. CIRCUIT SELECTOR SWITCH #1 (24"x30"x10").
5. CIRCUIT SELECTOR SWITCH #2 (24"x30"x10").

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RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE: NORTH RI/O CABINET ELEVATION

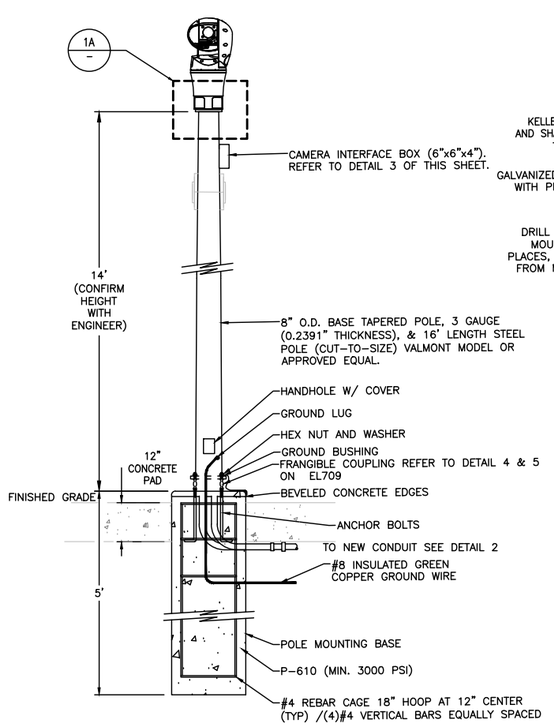
SHEET NO. EL707
285 OF 396

CADD FILE NO. _201735882-B1EELD-5276

COLORADO LICENSED TARON LEAN 52246 2/15/19 PROFESSIONAL ENGINEER

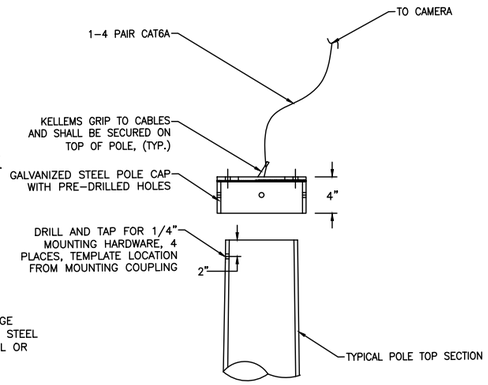
Feb 12, 2019 – 5:23pm Kat

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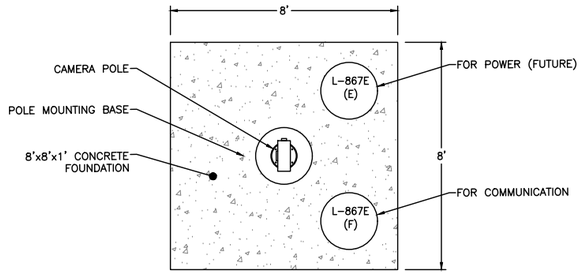

NOTE:
ALL EQUIPMENT AND MATERIAL FOR THIS DETAIL SHALL BE NEW.

1 / – CCTV POLE DETAILS (CCTV#1 AND CCTV#2)
NOT TO SCALE




NOTE:
ALL EQUIPMENT AND MATERIAL FOR THIS DETAIL SHALL BE NEW.

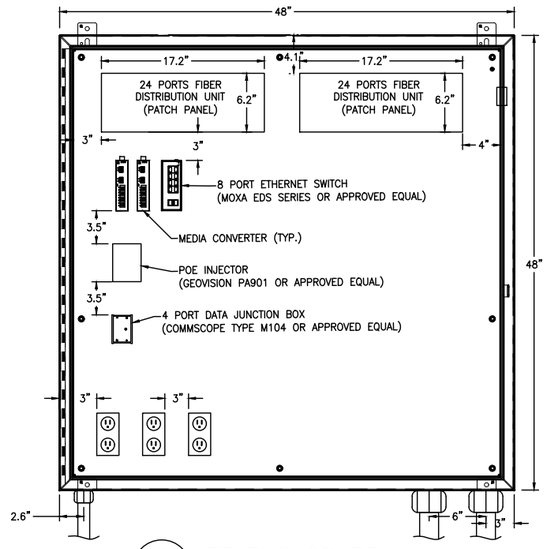
1A / – CCTV POLE CONNECTION
NOT TO SCALE



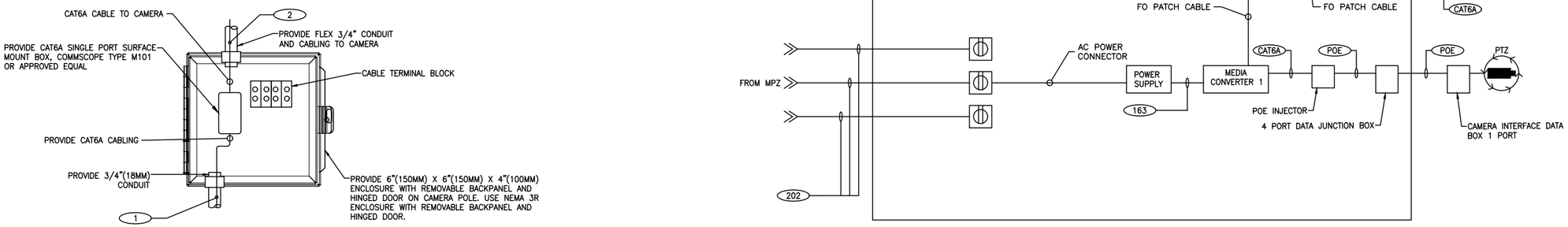

1B / – CCTV POLE TOP VIEW
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.




2 / – ITT ENCLOSURE
NOT TO SCALE




3 / – CAMERA INTERFACE DATA BOX 1 PORT
NOT TO SCALE




4 / – TYPICAL WIRING DIAGRAM FOR ITT ENCLOSURE & CCTV
NOT TO SCALE

| CONDUIT TAG | VOLTAGE | CABLE QTY. | CONDUCTORS PER WIRE | GROUND PER CONDUIT | EQUIPMENT | RECOMMENDATION |
|---|---|---|---|---|---|---|
| 1 | 44-57VDC | 1 | 4 PAIR #23 AWG | 1#18 AWG | NETWORK DEVICE | COMMSCOPE SYSTIMAX GIGASPEED X10D 1091 NON-PLENUM U/UTP, OR APPROVED EQUAL |
| 2 | 44-57VDC | 1 | 4 PAIR #23 AWG | 1#18 AWG | NETWORK DEVICE | COMMSCOPE SYSTIMAX GIGASPEED X10D 360BS10E, OR APPROVED EQUAL |

3A / – CAMERA INTERFACE BOX AND CABLE SCHEDULE
NOT TO SCALE

| CONDUIT TAG | VOLTAGE (AC) | CONDUIT QTY. | CONDUIT | WIRING PER CONDUIT | GROUND PER CONDUIT | EQUIPMENT |
|---|---|---|---|---|---|---|
| 163 | 12VDC | N/A | N/A | 2#16 AWG** | 1#16 AWG** | CONVERTER/MODULE |
| 202 | 120V | 1* | 2"* | 2#18 AWG | 1#18 AWG | RECEPTACLE |
| CAT6 | – | 1 | 1" | (2 EACH) OUTDOOR RATED CAT 6A CABLE*** | – | DATA FOR CCTV |
| POE | 24V | 1 | 1" | (2 EACH) OUTDOOR RATED CAT 6A POWER OVER ETHERNET*** | – | DATA FOR CCTV |

*CONDUIT IS SHARED BY OTHER CIRCUITS

4A / – ITT ENCLOSURE CONDUIT AND WIRING SCHEDULE
NOT TO SCALE




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RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

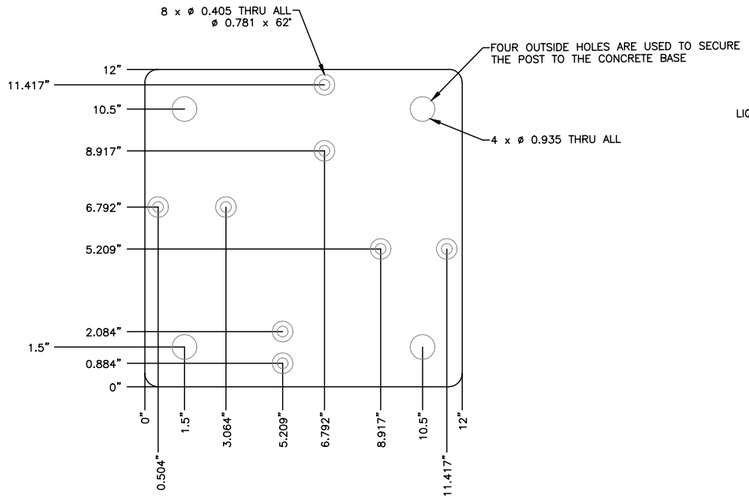
| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: CCTV POLE & ENCLOSURE DETAILS
SHEET NO. EL708 286 OF 396
CADD FILE NO. _201735882-B1EELD-5276

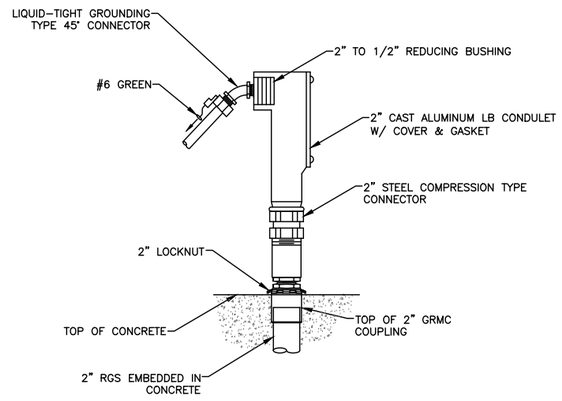
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NOTES:

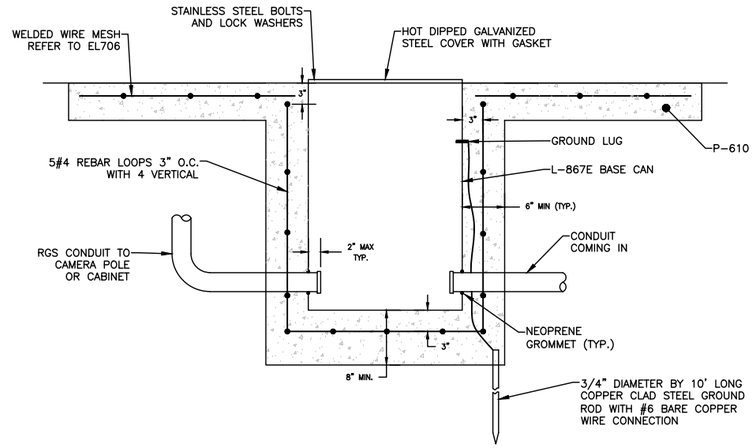
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.



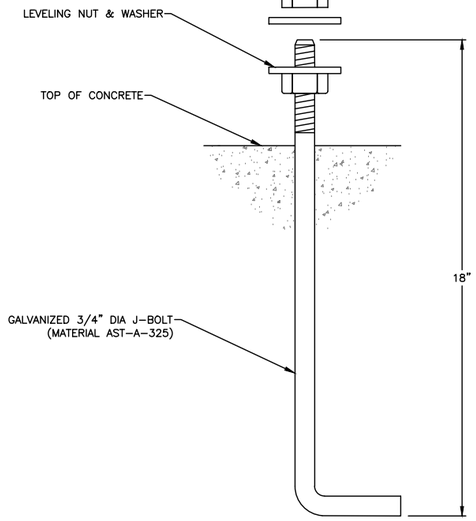

1 / – MOUNTING PLATE
NOT TO SCALE



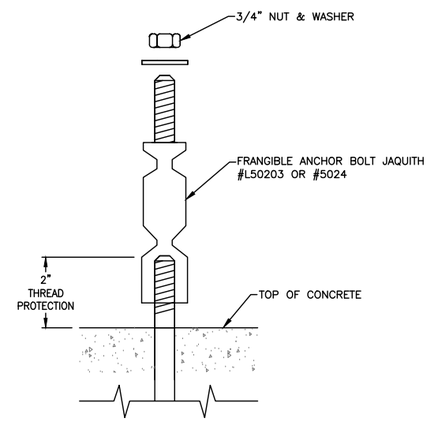

3 / – LB – WIRING LEG DETAIL
NOT TO SCALE



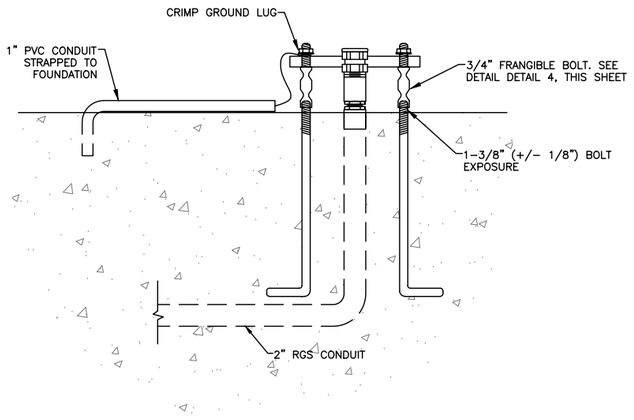

6 / – L-867E BASE CAN FOR REMOTE I/O CABINET & CCTV POLE
NOT TO SCALE




2 / – "L" SHAPE ANCHOR BOLT
NOT TO SCALE




4 / – FRANGIBLE ANCHOR FUSE BOLT
NOT TO SCALE




5 / – MOUNTING PLATE
NOT TO SCALE

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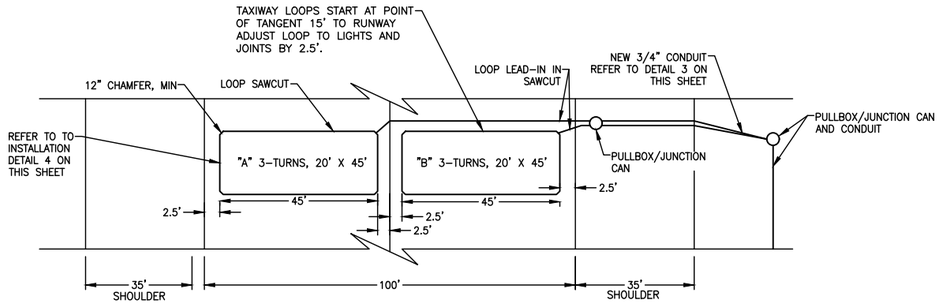
RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

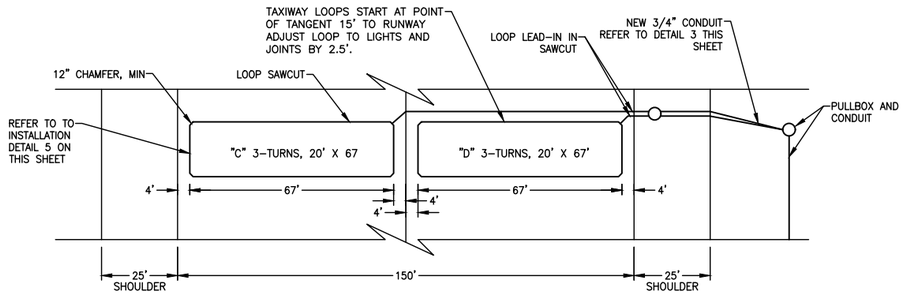
| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | ADDENDUM 2 | 1/17/19 | DL |
| 5 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: MOUNTING PLATE & FRANGIBLE BOLT DETAILS
SHEET NO. EL709 287 OF 396
CADD FILE NO. _201735882-B1EELD-5276

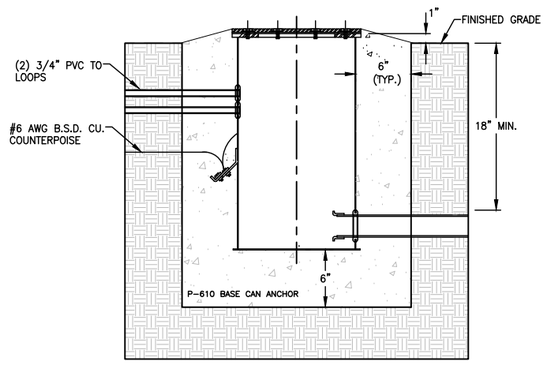
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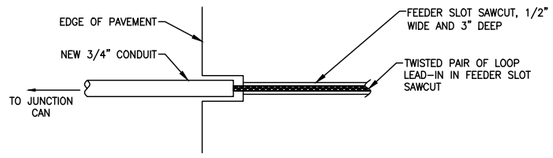

1 TAXIWAY AIRCRAFT DETECTION LOOP DETAIL
NOT TO SCALE



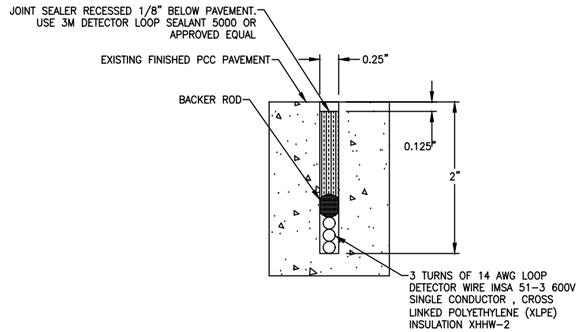

2 RUNWAY AIRCRAFT DETECTION LOOP DETAIL
NOT TO SCALE



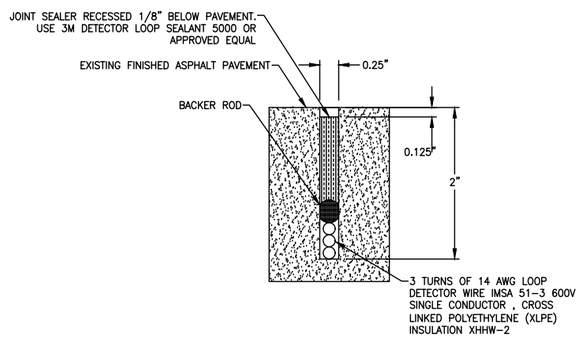

6 L-867D JUNCTION BOX IN TURF
NOT TO SCALE




3 LEAD-IN CABLE TRANSITION INSTALLATION
NOT TO SCALE




4 LOOP DETECTORS IN SAW KERF IN EXISTING PCC
NOT TO SCALE




5 LOOP DETECTORS IN SAW KERF IN EXISTING PCC
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. ALL LOOP SAWCUTS SHALL BE A MINIMUM 1/4" WIDE BY 2" DEEP TO ACCOMMODATE 3-TURNS OF 14 AWG LOOP WIRE CONDUCTOR.
2. ALL LOOP FEEDER SLOT SAWCUTS SHALL BE 1/2" WIDE BY 3.0" DEEP FROM PULLBOX TO LOOP DETECTOR ACCOMMODATE TWISTED LEADING WIRES.
3. LOOP WIRE SHALL BE TWISTED OUTSIDE OF THE FEEDER SLOT 6 TWISTS PER ONE FOOT FROM LOPP DETECTOR TO PULLBOX BEFORE PLACING TWISTED CABLE INTO FEEDER SAWCUT.
4. LEAD-IN CROSSING CONCRETE TO ASPHALT JOINT SHOULD HAVE EXTRA PROTECTION (WIDTH/DEPTH FOR SEALANT TUBING. LOOP SEALANT SHALL BE DOW 888 AS CURRENTLY USED TO SEAL EXPANSION/CONTRACTION JOINTS.
5. ADJACENT LOOPS SHALL BE SPLICED TO DIAGONALLY OPPOSITE (BLK-WHT, RED-GREEN) PAIRS OF HOMERUN CABLE. ALL SPLICES SHALL BE SOLDERED, INSULATED AND WATERPROOFED USING SPLICE KITS 3M SCOTCHCAST 3832 OR APPROVED EQUAL IN THE HANDHOLES.
6. A 1/4" DIAMETER, 4-CONDUCTOR, CANOGA 30003 LOOP HOMERUN CABLE, SHALL BE INSTALLED FROM EACH HANDHOLE NEAREST THE NEW LOOPS, INTO EXISTING CONDUITS TO THE R-I/O CONTROL CABINET.
7. CONNECTIONS BETWEEN LOOP DETECTOR CABLE AND HOMERUN CABLE IN A PULLBOX SHOULD BE SOLDERED, INSULATED AND WATERPROOFED. USE 3M SCOTCHCAST 3832 BURIED SERVICE WIRE INSTALLATION KIT

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2/15/19
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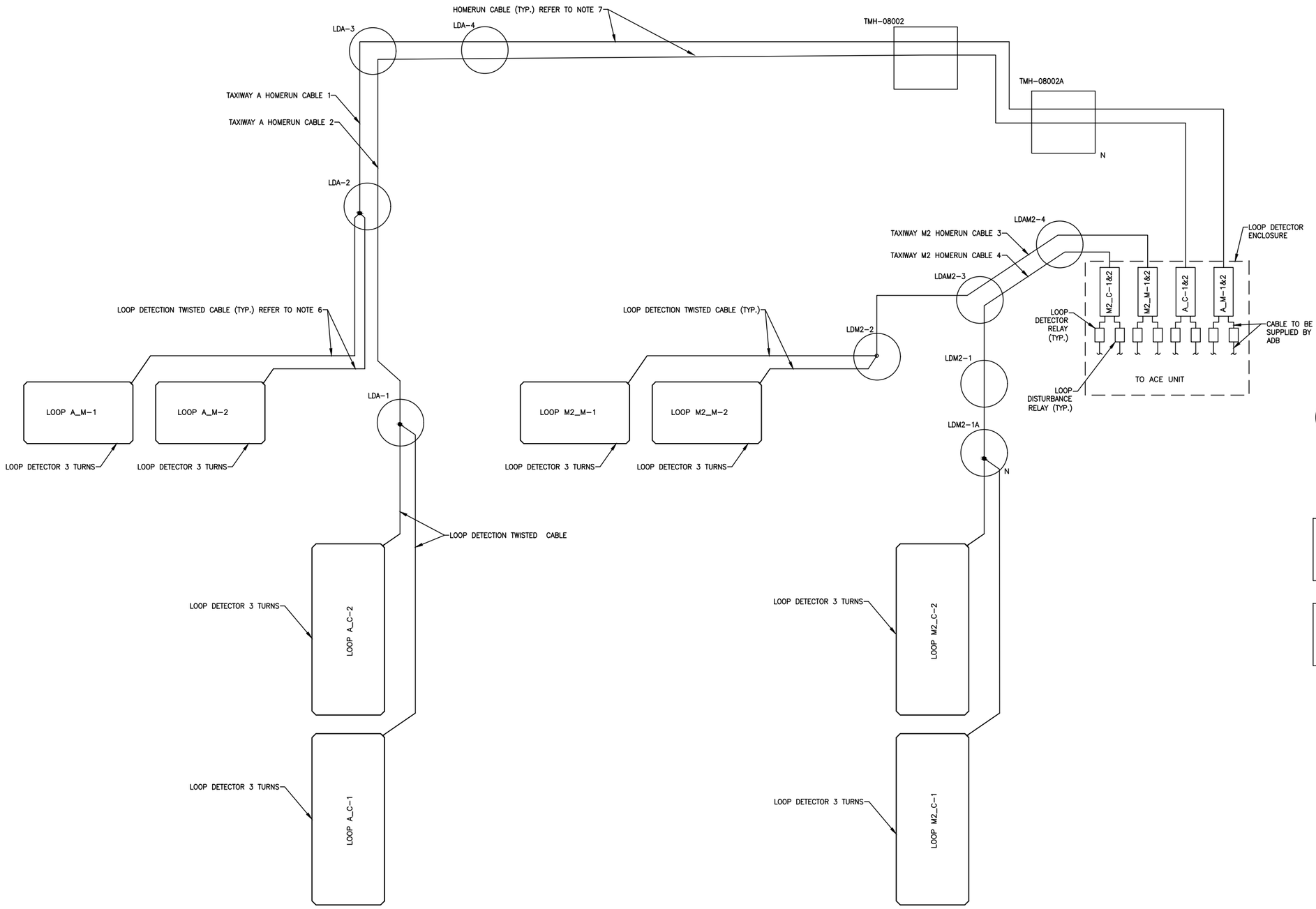
RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: AIRCRAFT DETECTION LOOP DETAIL
SHEET NO. EL710 288 OF 396
CADD FILE NO. _201735882-B1EELD-5276

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1 AIRCRAFT DETECTION LOOP DIAGRAM
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. ALL LOOP SAWCUTS SHALL BE A MINIMUM 1/4" WIDE BY 2" DEEP TO ACCOMMODATE 3-TURNS OF 14 AWG LOOP WIRE CONDUCTOR.
2. ALL LOOP FEEDER SLOT SAWCUTS SHALL BE 1/2" WIDE BY 3.0" DEEP FROM PULLBOX TO LOOP DETECTOR ACCOMMODATE TWISTED LEADING WIRES.
3. LOOP WIRE SHALL BE TWISTED OUTSIDE OF THE FEEDER SLOT 6 TWISTS PER ONE FOOT FROM LOOP DETECTOR TO PULLBOX BEFORE PLACING TWISTED CABLE INTO FEEDER SAWCUT.
4. LOOP SAWCUT CROSSING CONCRETE TO ASPHALT JOINT SHOULD HAVE EXTRA PROTECTION (WIDTH/DEPTH FOR SEALANT TUBING. LOOP SEALANT SHALL BE DOW 888 AS CURRENTLY USED TO SEAL EXPANSION/CONTRACTION JOINTS.
5. ADJACENT LOOPS SHALL BE SPLICED TO DIAGONALLY OPPOSITE (BLK-WHT, RED-GREEN) PAIRS OF HOMERUN CABLE. ALL SPLICES SHALL BE SOLDERED, INSULATED AND WATERPROOFED USING SPLICE KITS 3M SCOTCHCAST 3832 OR APPROVED EQUAL IN THE BASECANS.
6. LOOP DETECTOR CABLE 14AWG 600V SINGLE CONDUCTOR, XLPE INSULATION, IMSA SPECIFICATION 51-3
7. 4-CONDUCTOR, CANOGA 30003 LOOP HOMERUN CABLE, SHALL BE INSTALLED FROM LOOPS TO THE R-I/O CONTROL CABINET.

LDAM2-3 — EXISTING COMMUNICATION JUNCTION CAN

LDM2-1A N — NEW COMMUNICATION JUNCTION CAN

TMH-08002 — EXISTING COMMUNICATION MANHOLE

TMH-08002A N — NEW COMMUNICATION MANHOLE

CANOGA 9004, 4-CHANNELLOOP DETECTOR BOARD

GENERAL PURPOSE RELAY

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# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: LOOP DETECTOR SINGLE LINE DIAGRAM
SHEET NO. EL711 289 OF 396
CADD FILE NO. _201735882-B1EELD-5276

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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

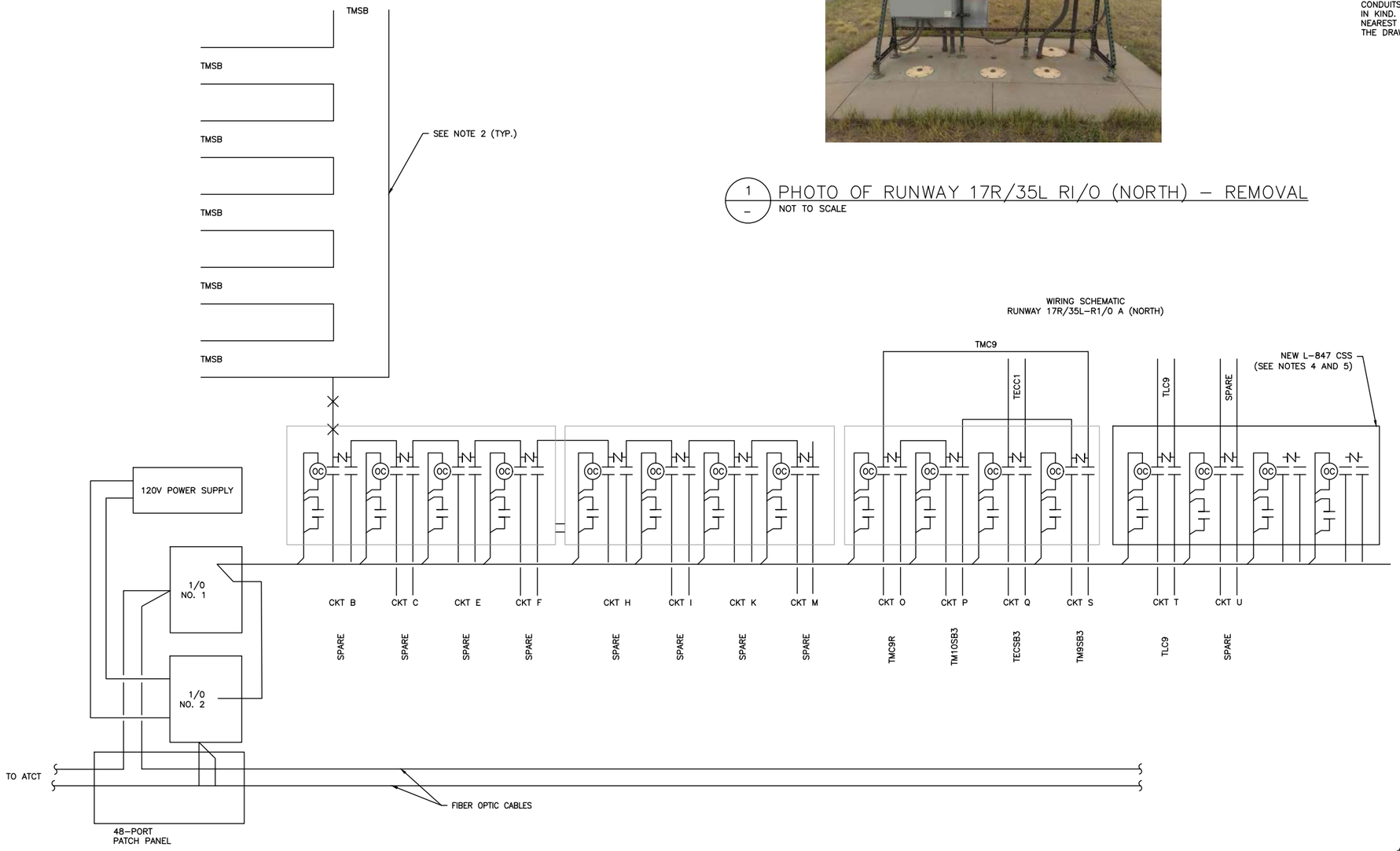
SHEET NOTES:

1. PRIOR TO DEMOLITION OF EXISTING REMOTE I/O CABINET, CONTRACTOR SHALL SURVEY AND FIELD VERIFY THE EXISTING ROUTING AND WIRING FOR THE AIRFIELD LIGHTING CIRCUITS, INDUCTION LOOPS, AND FIBER CONTROL CABLE. PROVIDE ROUTING AND CONFIRMATION OF EXISTING CIRCUITS IN A SHOP DRAWING TO BE PROVIDED TO THE AIRPORT FOR APPROVAL. PROVIDE A PULLING PLAN FOR THE NEW CABLE AS PART OF THE SHOP DRAWING. CONTRACTOR SHALL NOT DEMOLISH EXISTING REMOTE I/O CABINET UNTIL SHOP DRAWING AND PULLING PAN HAS BEEN APPROVED.
2. DEMOLISH EXISTING FOUNDATION, CONDUITS, AND EQUIPMENT, AND BACKFILL IN KIND. REMOVE ALL CIRCUITS TO NEAREST HANDHOLE AND AS SHOWN ON THE DRAWINGS.



1 / – PHOTO OF RUNWAY 17R/35L RI/O (NORTH) – REMOVAL
NOT TO SCALE

WIRING SCHEMATIC
RUNWAY 17R/35L-R1/0 A (NORTH)




2 / – ONE LINE DIAGRAM – NORTH
NOT TO SCALE

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE

RI/O NORTH REMOVAL

SHEET NO. EL712
290 OF 396

CADD FILE NO. _201735882-B1EELD-5276

COLORADO LICENSED
BRYON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

NOTE:

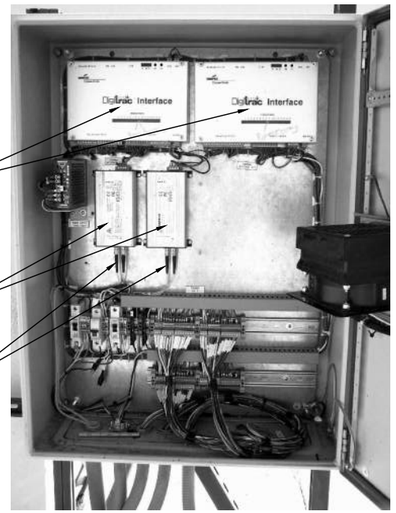
1. CONTROL SYSTEM WAS CHANGED TO AN ADB SYSTEM. CONTRACTOR AS-BUILT DRAWINGS WERE NOT PROVIDED. REFER TO ADB AS-BUILT DRAWINGS AND O&M MANUALS.



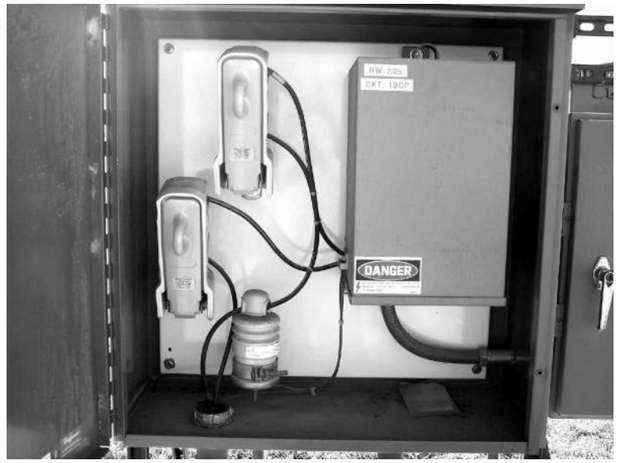

1 — PATCH PANEL – RUNWAYS 7/25, 8/26, 16L/34R, 17L/35R AND 17R/34L
NOT TO SCALE



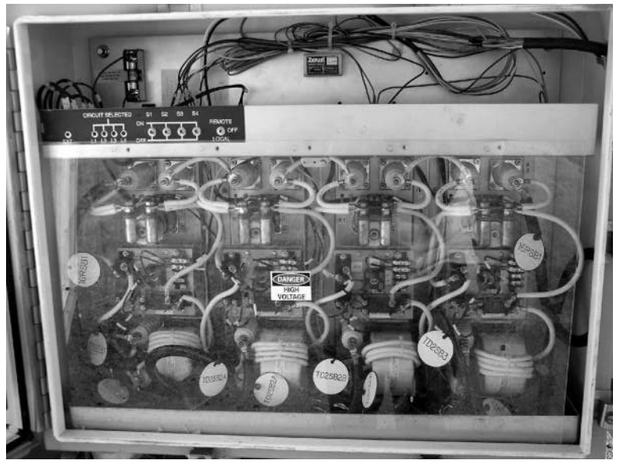
2 — LOOP DETECTOR ENCLOSURE, TYP.
NOT TO SCALE




3 — DIGITAL INTERFACE UNIT WITHOUT LOGITRAC ADAPTER
NOT TO SCALE




4 — CUTOUT ENCLOSURE, TYP.
NOT TO SCALE




5 — CIRCUIT SELECTOR SWITCH
NOT TO SCALE

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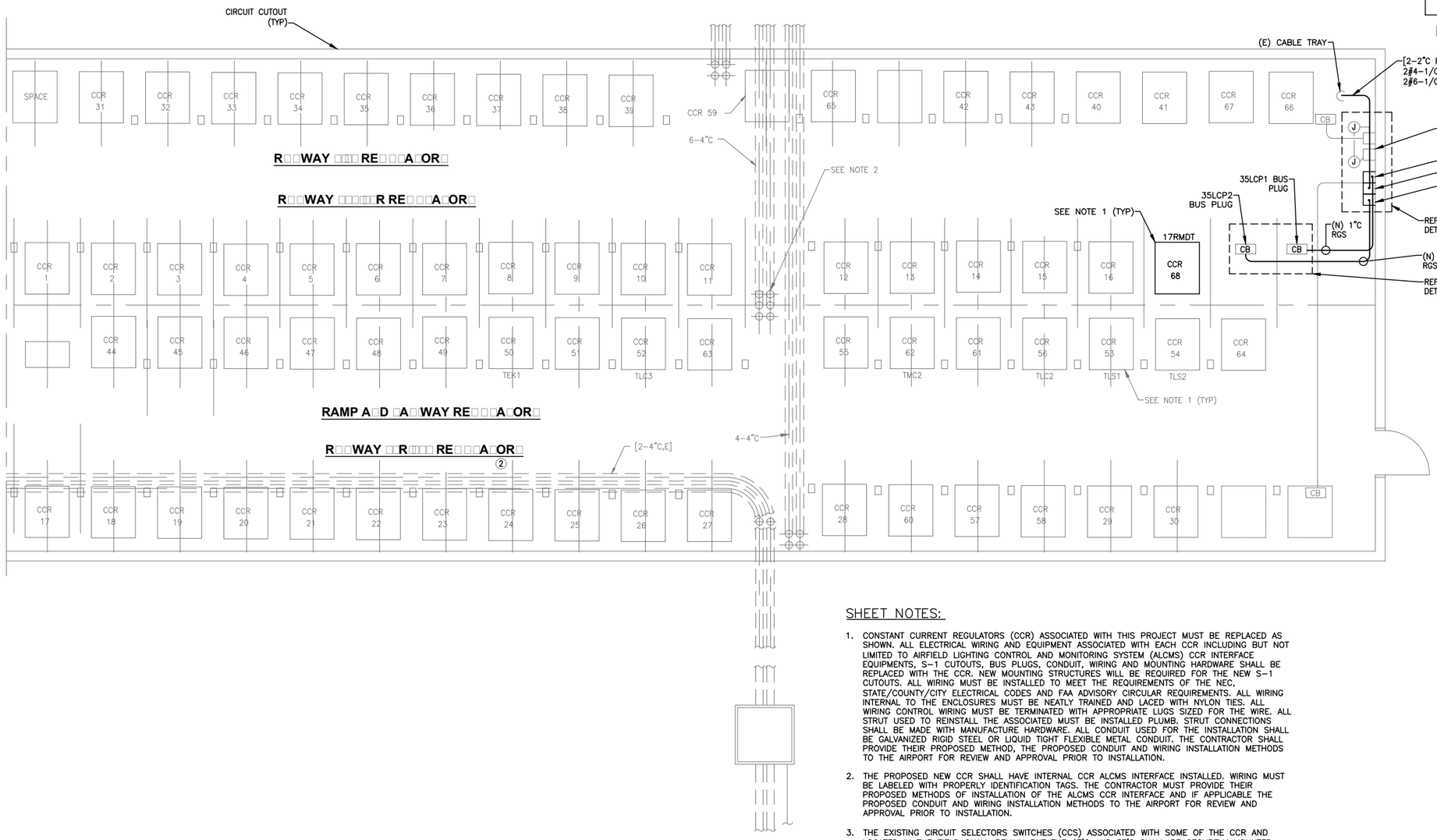
RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: GENERAL CSS EQUIPMENT PHOTOS
SHEET NO. EL713 291 OF 396
CADD FILE NO. _201735882-B1EELD-5276

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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

LEGEND:

CCR XX — BOLD DENOTES NEW REGULATOR.

CB — BOLD DENOTES NEW CIRCUIT BREAKER.

## SHEET NOTES:

1. CONSTANT CURRENT REGULATORS (CCR) ASSOCIATED WITH THIS PROJECT MUST BE REPLACED AS SHOWN. ALL ELECTRICAL WIRING AND EQUIPMENT ASSOCIATED WITH EACH CCR INCLUDING BUT NOT LIMITED TO AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM (ALCMS) CCR INTERFACE EQUIPMENTS, S-1 CUTOUTS, BUS PLUGS, CONDUIT, WIRING AND MOUNTING HARDWARE SHALL BE REPLACED WITH THE CCR. NEW MOUNTING STRUCTURES WILL BE REQUIRED FOR THE NEW S-1 CUTOUTS. ALL WIRING MUST BE INSTALLED TO MEET THE REQUIREMENTS OF THE NEC, STATE/COUNTY/CITY ELECTRICAL CODES AND FAA ADVISORY CIRCULAR REQUIREMENTS. ALL WIRING INTERNAL TO THE ENCLOSURES MUST BE NEATLY TRAINED AND LACED WITH NYLON TIES. ALL WIRING CONTROL WIRING MUST BE TERMINATED WITH APPROPRIATE LUGS SIZED FOR THE WIRE. ALL STRUT USED TO REINSTALL THE ASSOCIATED MUST BE INSTALLED PLUMB. STRUT CONNECTIONS SHALL BE MADE WITH MANUFACTURE HARDWARE. ALL CONDUIT USED FOR THE INSTALLATION SHALL BE GALVANIZED RIGID STEEL OR LIQUID TIGHT FLEXIBLE METAL CONDUIT. THE CONTRACTOR SHALL PROVIDE THEIR PROPOSED METHOD, THE PROPOSED CONDUIT AND WIRING INSTALLATION METHODS TO THE AIRPORT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
2. THE PROPOSED NEW CCR SHALL HAVE INTERNAL CCR ALCMS INTERFACE INSTALLED. WIRING MUST BE LABELED WITH PROPERLY IDENTIFICATION TAGS. THE CONTRACTOR MUST PROVIDE THEIR PROPOSED METHODS OF INSTALLATION OF THE ALCMS CCR INTERFACE AND IF APPLICABLE THE PROPOSED CONDUIT AND WIRING INSTALLATION METHODS TO THE AIRPORT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
3. THE EXISTING CIRCUIT SELECTORS SWITCHES (CCS) ASSOCIATED WITH SOME OF THE CCR AND LOCATED IN THE FIELD SHALL REMAIN BUT THE CT'S AND PT'S SHALL BE SECURELY MOUNTED WITH SCREWS WITHIN THE CCS AND NEW LINE AND LOAD WIRING SHALL BE INSTALLED TO THE CCS. THE CONTRACTOR SHALL PROVIDE ALL NEW LINE AND LOAD WIRING TO THE CSS. WIRING SHALL BE LABELED WITH THE PROPER IDENTIFICATION TAGS. ALL WIRING INTERNAL TO THE ENCLOSURES SHALL BE NEATLY TRAINED AND LACED WITH NYLON TIES.
4. LOOP CIRCUITS 35,17R,17RC, AND 35LC THROUGH EXISTING RVR CURRENT TRANSFORMERS LOCATED IN THE EXISTING CABLE TRAY JUNCTION BOX.
5. BUS PLUG REPLACEMENTS SHALL BE MANUFACTURED BY GENERAL ELECTRIC #CSB33SELG WITH SELA 3P3W, 30A, AC, 480V, 65IC STANDARD COMMERCIAL CIRCUIT BREAKERS FOR 30 AMP BUS PLUGS, 3CSB36SELG WITH SELA 3P3W, 60A, AC, 480V, 65IC STANDARD COMMERCIAL CIRCUIT BREAKERS FOR 60 AMP BUS PLUGS, #CSB39SELG WITH SELA 3P3W, 90A, AC, 480V, 65IC STANDARD COMMECIAL CIRCUIT BREAKERS FOR 90 AMP BUS PLUGS.
6. NEW CCRS SHALL BE LINED UP WITH THE FRONTS OF THE CCRS LINED UP.
7. CONTRACTOR SHALL PROTECT THE EXISTING ADB ACE UNITS AND FIELD INSTALLATION BRITE REMOTE UNITS AND DELIVER TO THE AIRPORT IMMEDIATELY AFTER REMOVAL.

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# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE: EAST VAULT EQUIPMENT PLAN

SHEET NO. EL751



CADD FILE NO. _201735882-B1EELD-6289

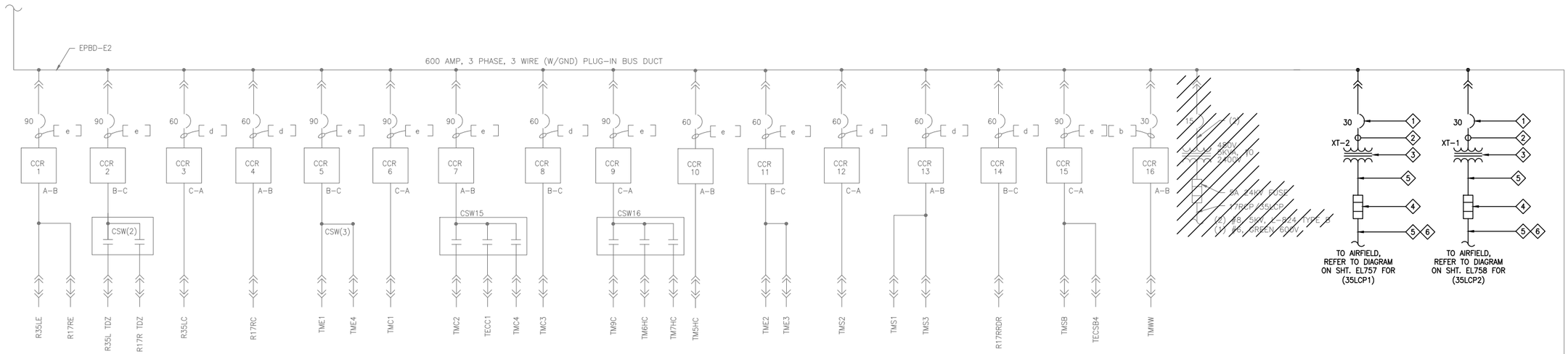
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SHEET NOTES:

1. LOCATE EXISTING UNUSED PLUG-IN SPACE ON EACH RESPECTIVE BUSDUCT. PROVIDE NEW PLUG-IN 30A/2P CIRCUIT BREAKERS, 22 KAIC, ONE FOR EACH BUSDUCT, WITH HANDLE OPERABLE FROM THE FLOOR USING A BREAKER STICK. PLUG-IN ASSEMBLY MUST BE COMPATIBLE WITH EXISTING BUSDUCT. PROVIDE (1) – BREAKER STICK FOR OPERATION OF THESE BREAKERS FROM THE FLOOR.
2. PROVIDE 1" RGS CONDUIT RACEWAY FROM EACH NEW PLUG-IN BREAKER TO RESPECTIVE 15 KVA DRY TYPE TRANSFORMER. PROVIDE 2 – 1/C 8AWG, CU, 600V., THWN-2, AND 1 – 1/C 10 AWG, CU, 600V, THWN-2, EQUIPMENT GROUND CONDUCTORS IN 1" C.
3. PROVIDE CUSTOM 15 KVA, DRY-TYPE TRANSFORMER, 480V, 1 PHASE, 2-WIRE PRIMARY TO 2,400V, 1 PHASE, 2-WIRE SECONDARY. TRANSFORMER INSULATION TO BE RATED 220 DEG. CELSIUS. CONNECT TRANSFORMER TO STEP VOLTAGE UP TO 2,400V. MGM TRANSFORMER CO., OR APPROVED EQUAL.
4. PROVIDE 100A., 5.2 KV, FUSIBLE, ENCLOSED CUTOUT WITH 10A FUSE, ABB TYPE EU, OR APPROVED EQUAL FOR EACH 5 KV CONDUCTOR IN VAULT.
5. PROVIDE 2 – 1/C 2 AWG, CU, MV-105, EPR, SHLD, 5 KV CABLES PER CIRCUIT. GROUND SHIELDING TO EXISTING VAULT GROUND SYSTEM. USE EXISTING CONDUITS WHERE AVAILABLE, EXCEPT WHERE NEW CONDUIT IS SHOWN TO BE INSTALLED.
6. REFER TO DRAWING EL759, FOR 5KV CABLE TO 'T-1', 'T-2', 'T-3', & 'T-4'.

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

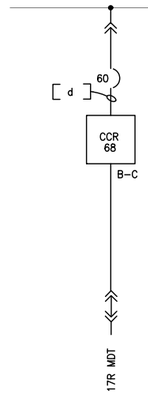



1 — RUNWAY 35L/17R CONSTANT CURRENT REGULATORS & CONSTANT POWER CIRCUITS 35LCP1 & 35LCP2
NOT TO SCALE

**ONE LINE DIAGRAM**

CIRCUIT CALL OUTS

- a 3/4" C-2#12,1#12G
- b 3/4" C-2#10,1#10G
- c NOT USED
- d 1" C-2#4,1#8G
- e 1 1/2" C-2#2,1#8G




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# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

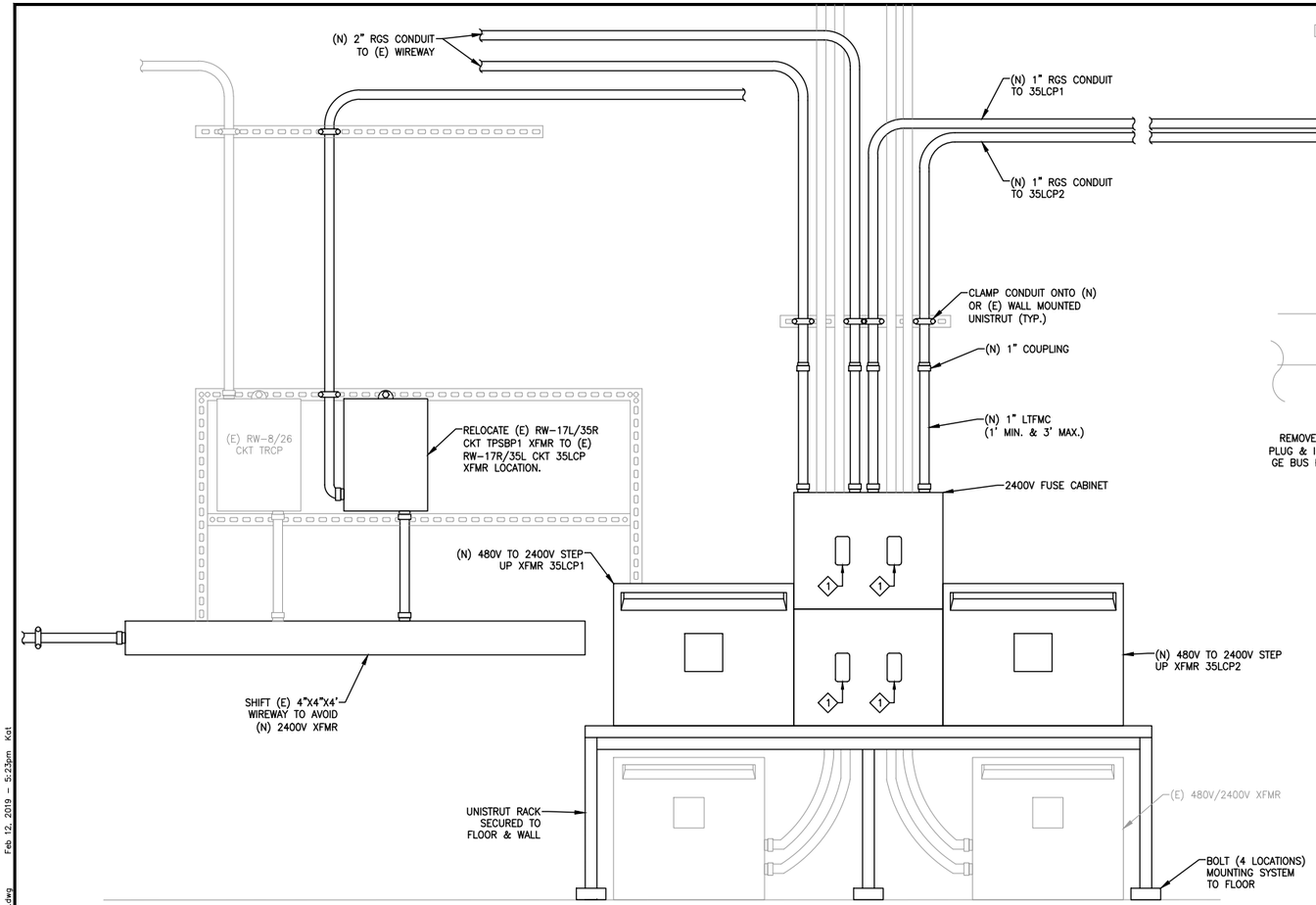
ISSUE RECORD

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| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

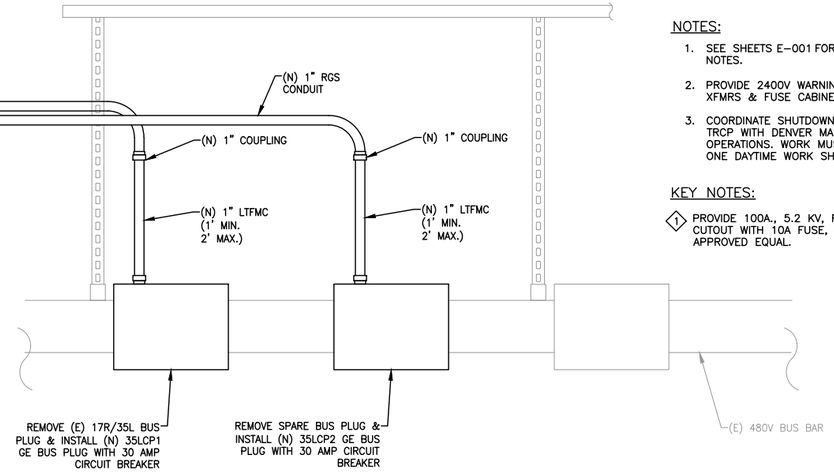
SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: RWY 17R35L ONE LINE DIAGRAM
SHEET NO. EL756

CADD FILE NO. _201735882-B1EELD-6289

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1 ELEVATION VIEW OF 35LCP1 & 35LCP2 TRANSFORMERS & CUTOUTS
NOT TO SCALE




2 ELEVATION VIEW OF 35LCP1 & 35LCP2 BUS PLUG
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.
2. PROVIDE 2400V WARNING LABELS ON ALL (N) XFMRS & FUSE CABINETS
3. COORDINATE SHUTDOWN OF CKT TPSBP1 & CKT TRCP WITH DENVER MAINTENANCE & AIRPORT OPERATIONS. WORK MUST BE COMPLETED IN ONE DAYTIME WORK SHIFT.

KEY NOTES:

1 PROVIDE 100A., 5.2 KV, FUSIBLE, ENCLOSED CUTOUT WITH 10A FUSE, ABB TYPE EU, OR APPROVED EQUAL.




2A (E) BUS PLUG LOCATIONS
FOR REFERENCE ONLY




1A (E) EAST VAULT 480V/2400V TRANSFORMERS
FOR REFERENCE ONLY




1B TYPICAL NEW TRANSFORMER CONFIGURATION
FOR REFERENCE ONLY

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RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
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DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: EAST VAULT EQUIPMENT PLAN ELEVATION
SHEET NO. EL752

CADD FILE NO. _201735882-B1EELD-6289

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# EAST VAULT LIGHTING EQUIPMENT AND CABLE SCHEDULE

| EQUIPMENT IDENTIFIER | EQUIPMENT TYPE | EQUIPMENT NUMBER | REGULATOR | | CIRCUIT DESCRIPTION | CIRCUIT NAME | CONDUCTORS REQUIRED | CONDUIT ROUTE | CABLE NUMBERS | | CONTROL CABLE | CIRCUIT BKR EQUIPMENT NUMBER | CUTOUT EQUIPMENT NUMBER | AIRFIELD LIGHTING CIRCUIT MONITERING SYSTEM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SIZE | STEPS | | | | | L1 | L2 | | | | CONTROL CABLE TO– | INSTRUMENT CABLE TO– |
| CCR1 | REGULATOR | 08501 | 30 | 5 | | | | | | | 12/C #16 TYPE 1 | 08571 | | 12/C #16 TYPE 1 | |
| | | | | | RW–35L EDGE | 35LE | 2–1/C #8 5kV | F | 35LE–1 | 35LE–2 | 12/C #16 TYPE 1 | | 08631 | | |
| | | | | | RW–17R EDGE | 17RE | 2–1/C #8 5kV | F | 17RE–1 | 17RE–2 | | | 08632 | | |
| CCR2 | REGULATOR | 08503 | 30 | 5 | | | | | | | 12/C #16 TYPE 1 | 08572 | | 12/C #16 TYPE 1 | |
| CSW2 | SWITCH | 08504 | | | RW–35L TDZ | 35LTDZ | 2–1/C #8 5kV | F | 35LTDZ–1 | 35LTDZ–2 | 12/C #16 TYPE 1 | | 08633 | | |
| CSW2 | SWITCH | | | | RW–17R TDZ | 17RTDZ | 2–1/C #8 5kV | F | 17RTDZ–1 | 17RTDZ–2 | | | 08634 | | |
| CCR3 | REGULATOR | 08505 | 20 | 5 | RW–35L CENTERLINE | 35LC | 2–1/C #8 5kV | F | 35LC–1 | 35LC–2 | 12/C #16 TYPE 1 | 08573 | 08635 | 12/C #16 TYPE 1 | |
| CCR4 | REGULATOR | 08506 | 20 | 5 | RW–17R CENTERLINE | 17RC | 2–1/C #8 5kV | F | 17RC–1 | 17RC–2 | 12/C #16 TYPE 1 | 08574 | 08636 | 12/C #16 TYPE 1 | |
| CCR5 | REGULATOR | 08507 | 30 | 3 | | | | | | | 12/C #16 TYPE 1 | 08575 | | 12/C #16 TYPE 1 | |
| | | | | | PARALLEL TW–M EDGE LIGHTS | TME1 | 2–1/C #8 5kV | F | TME1–1 | TME1–2 | 12/C #16 TYPE 1 | | 08637 | | |
| CSW3 | SWITCH | 08509 | | | TW–M EDGE LIGHTS | TME4 | 2–1/C #8 5kV | F | TME4–1 | TME4–2 | | | 08745 | | |
| CCR6 | REGULATOR | 08510 | 30 | | TW–M CENTERLINE LIGHTS | TMC1 | 2–1/C #8 5kV | F | TMC1–1 | TMC1–2 | 12/C #16 TYPE 1 | 08578 | 08639 | 12/C #16 TYPE 1 | |
| CCR7 | REGULATOR | 08726 | 30 | 3 | | | | | | | 12/C #16 TYPE 1 | 08579 | | 12/C #16 TYPE 1 | |
| CSW15 | SWITCH | | | | TW–M CENTERLINE LIGHTS | TMC2 | 2–1/C #8 5kV | F | TMC2–1 | TMC2–2 | 12/C #16 TYPE 1 | | 08640 | | |
| CSW15 | SWITCH | | | | TW–M CENTERLINE LIGHTS | TECC1 | 2–1/C #8 5kV | F | TECC1–1 | TECC1–2 | | | 08576 | | |
| CSW15 | SWITCH | 08511 | | | TW–M CENTERLINE LIGHTS | TMC4 | 2–1/C #8 5kV | F | TMC4–1 | TMC4–2 | | | 08577 | | |
| CCR8 | REGULATOR | 08512 | 20 | 3 | TW–M CENTERLINE LIGHTS | TMC3 | 2–1/C #8 5kV | F | TMC3–1 | TMC3–2 | 12/C #16 TYPE 1 | 08580 | 08641 | 12/C #16 TYPE 1 | |
| CCR9 | REGULATOR | 08727 | 30 | 3 | | | | | | | 12/C #16 TYPE 1 | 08581 | | 12/C #16 TYPE 1 | |
| CSW16 | SWITCH | | | | TW–M CENTER LINE LIGHTS | TMC9 | 2–1/C #8 5kV | F | TMC9–1 | TMC9–2 | 12/C #16 TYPE 1 | | 08642 | | |
| CSW16 | SWITCH | | | | TW–M CENTER LINE LIGHTS | TM6HC | 2–1/C #8 5kV | F | TM6HC–1 | TM6HC–2 | | | 08728 | | |
| CSW16 | SWITCH | 08513 | | | TW–M CENTER LINE LIGHTS | TM7HC | 2–1/C #8 5kV | F | TM7HC–1 | TM7HC–2 | | | 08729 | | |
| CCR10 | REGULATOR | | 20 | 3 | TW–M CENTER LINE LIGHTS | TM5HC | 2–1/C #8 5kV | F | TM5HC–1 | TM5HC–2 | 12/C #16 TYPE 1 | 08582 | 08643 | 12/C #16 TYPE 1 | |
| CCR11 | REGULATOR | | 20 | 3 | TW–M CENTER LINE LIGHTS | | | | | | | | | | |
| | | | | | TW–M EDGE LIGHTS | TME2 | 2–1/C #8 5kV | F | TME2–1 | TME2–2 | | | 08638 | | |
| | | | | | TW–M EDGE LIGHTS | TME3 | 2–1/C #8 5kV | F | TME3–1 | TME3–2 | | | 08715 | | |
| CCR12 | REGULATOR | 08515 | 20 | 3 | TW–M SIGNS | TMS2 | 2–1/C #8 5kV | E | TMS2–1 | TMS2–2 | 12/C #16 TYPE 1 | 08584 | 08645 | 12/C #16 TYPE 1 | |
| CCR13 | REGULATOR | 08516 | 20 | 3 | | | | | | | 12/C #16 TYPE 1 | 08585 | | 12/C #16 TYPE 1 | |
| | | | | | TW–M SIGNS | TMS1 | 2–1/C #8 5kV | E | TMS1–1 | TMS1–2 | 12/C #16 TYPE 1 | | 08644 | | |
| | | | | | TW–M SIGNS | TMS3 | 2–1/C #8 5kV | E | TMS3–1 | TMS3–2 | | | 08646 | | |
| CCR14 | REGULATOR | 08517 | 20 | 3 | 17L/35R RDR | 17RRDR | 2–1/C #8 5kV | E | 17RRDR–1 | 17RRDR–2 | 12/C #16 TYPE 1 | 08586 | 08647 | 12/C #16 TYPE 1 | |
| CCR15 | REGULATOR | 08518 | 30 | 3 | STOP BARS | TMSB | 2–1/C #8 5kV | E | TMSB–1 | TMSB–2 | 12/C #16 TYPE 1 | 08587 | 08648 | 12/C #16 TYPE 1 | |
| | | | | | TW EC STOP BAR @ TW–M | TECSB4 | 2–1/C #8 5kV | E | TECSB4–1 | TECSB4–2 | 12/C #16 TYPE 1 | | 08649 | | |
| CCR16 | REGULATOR | 08520 | 10 | 3 | TW–M WIG WAGS | TMWW | 2–1/C #8 5kV | E | TMWW–1 | TMWW–2 | 12/C #16 TYPE 1 | 08588 | 08651 | 12/C #16 TYPE 1 | |
| CCR17 | REGULATOR | 08521 | 20 | 5 | RW–35R EDGE | R35RE1 | 2–1/C #8 5kV | D | R35RE1–1 | R35RE1–2 | 12/C #16 TYPE 1 | 08589 | 08652 | 12/C #16 TYPE 1 | |
| CCR18 | REGULATOR | 08522 | 20 | 5 | RW–17L EDGE | R17LE1 | 2–1/C #8 5kV | D | R17LE1–1 | R17LE1–2 | 12/C #16 TYPE 1 | 08590 | 08653 | 12/C #16 TYPE 1 | |
| CCR19 | REGULATOR | 08523 | 20 | 5 | | | | | | | 12/C #16 TYPE 1 | 08591 | | 12/C #16 TYPE 1 | |
| CSW4 | SWITCH | 08524 | | | RW–35R TDZ | R35RTDZ1 | 2–1/C #8 5kV | D | R35RTDZ1–1 | R35RTDZ1–2 | 12/C #16 TYPE 1 | | 08654 | | |
| CSW4 | SWITCH | | | | RW–17L TDZ | R17LTDZ1 | 2–1/C #8 5kV | D | R17LTDZ1–1 | R17LTDZ1–2 | | | 08655 | | |
| CCR20 | REGULATOR | 08525 | 20 | 5 | RW–35R CENTERLINE | R35RC1 | 2–1/C #8 5kV | D | R35RC1–1 | R35RC1–2 | 12/C #16 TYPE 1 | 08592 | 08656 | 12/C #16 TYPE 1 | |
| CCR21 | REGULATOR | 08526 | 20 | 5 | RW–17L CENTERLINE | R17LC1 | 2–1/C #8 5kV | D | R17LC1–1 | R17LC1–2 | 12/C #16 TYPE 1 | 08593 | 08657 | 12/C #16 TYPE 1 | |
| CCR22 | REGULATOR | 08527 | 30 | 3 | | | | | | | 12/C #16 TYPE 1 | 08594 | | 12/C #16 TYPE 1 | |
| CSW5 | SWITCH | 08228 | | | PARALLEL TW–P EDGE (SOUTH) | TPE1 | 2–1/C #8 5kV | D | TPE1–1 | TPE1–2 | 12/C #16 TYPE 1 | | 08658 | | |
| CSW5 | SWITCH | | | | PARALLEL TW–P EDGE (NORTH) | TPE2 | 2–1/C #8 5kV | D | TPE2–1 | TPE2–2 | | | 08659 | | |
| CSW5 | SWITCH | | | | TW EC EDGE | TECE1 | 2–1/C #8 5kV | D | TECE1–1 | TECE1–2 | | | 08660 | | |
| CSW5 | SWITCH | | | | SPARE | | | | | | | | | | |
| CCR23 | REGULATOR | 08529 | 20 | 3 | TW ED AND P7 EDGE | TEDP7E1 | 2–1/C #8 5kV | D | TEDP7E1–1 | TEDP7E1–2 | 12/C #16 TYPE 1 | 08595 | 08661 | 12/C #16 TYPE 1 | |
| CCR24 | REGULATOR | 08530 | 20 | | | | | | | | 12/C #16 TYPE 1 | 08596 | | 12/C #16 TYPE 1 | |
| CWS18 | SWITCH | 08990 | | | TW–P SIGNAGE | TPS1 | 2–1/C #8 5kV | D | TPS1–1 | TPS1–2 | | | 08662 | | |
| CWS18 | SWITCH | | | | TW–P SIGNAGE | TPS2 | 2–1/C #8 5kV | D | TPS2–1 | TPS2–2 | | | 08663 | | |
| CCR25 | REGULATOR | 08531 | 30 | 3 | TW–P CENTERLINE LIGHTS (SOUTH) | TPC1 | 2–1/C #8 5kV | D | TPC1–1 | TPC1–2 | 12/C #16 TYPE 1 | 08597 | 08664 | 12/C #16 TYPE 1 | |
| CCR26 | REGULATOR | 08532 | 30 | 3 | TW–P CENTERLINE LIGHTS (NORTH) | TPC2 | 2–1/C #8 5kV | D | TPC2–1 | TPC2–2 | 12/C #16 TYPE 1 | 08598 | 08665 | 12/C #16 TYPE 1 | |
| CCR27 | REGULATOR | 08533 | 30 | 3 | | | | | | | 12/C #16 TYPE 1 | 08599 | | 12/C #16 TYPE 1 | |
| CSW6 | SWITCH | 08534 | | | TW EC CENTERLINE | TECC2 | 2–1/C #8 5kV | D | TECC2–1 | TECC2–2 | 12/C #16 TYPE 1 | | 08666 | | |
| CSW6 | SWITCH | | | | TW P7 CENTERLINE (HIGHSPEED) | TP7HC1 | 2–1/C #8 5kV | D | TP7HC1–1 | TP7HC1–2 | | | 08667 | | |
| CSW6 | SWITCH | | | | TW ED CENTERLINE | TEDC1 | 2–1/C #8 5kV | D | TEDC1–1 | TEDC1–2 | | | 08668 | | |
| CSW6 | SWITCH | | | | TW EC LEAD ON LIGHTS | TECSB5 | 2–1/C #8 5kV | D | TECSB5–1 | TECSB5–2 | | | 08629 | | |
| CCR28 | REGULATOR | 08535 | 10 | 3 | TW P6 CENTERLINE LIGHTS | TP6HC1 | 2–1/C #8 5kV | D | TP6HC1–1 | TP6HC1–2 | 12/C #16 TYPE 1 | 08600 | 08716 | 12/C #16 TYPE 1 | |
| CCR60 | REGULATOR | 08730 | 10 | 3 | TW P7 CENTERLINE LIGHTS | TP7C1 | 2–1/C #8 5kV | D | TP7C1–1 | TP7C1–2 | 12/C #16 TYPE 1 | 08731 | 08732 | 12/C #16 TYPE 1 | |
| CCR57 | REGULATOR | 08724 | 20 | 3 | TZ–4 CENTERLINE LIGHTS | TP4HC1 | 2–1/C #8 5kV | C | TP4HC1–1 | TP4HC1–2 | 12/C #16 TYPE 1 | 08717 | 08718 | 12/C #16 TYPE 1 | |
| CCR58 | REGULATOR | 08725 | 10 | 3 | R35R WIG WAGS | R35RWW1 | 2–1/C #8 5kV | C | R35RWW1–1 | R35RWW1–2 | 12/C #16 TYPE 1 | 08719 | 08720 | 12/C #16 TYPE 1 | |
| CCR29 | REGULATOR | 08536 | 20 | 3 | 17L/35R WIND CONE | R35RRDRWC1 | 2–1/C #8 5kV | C | R35RRDRWC1–1 | R35RRDRWC1–2 | 12/C #16 TYPE 1 | 08601 | 08669 | 12/C #16 TYPE 1 | |
| CCR30 | REGULATOR | 08537 | 30 | 3 | TW P AND EC STOP BARS | TPSB1 | 2–1/C #8 5kV | C | TPSB1–1 | TPSB1–2 | 12/C #16 TYPE 1 | 08602 | 08670 | 12/C #16 TYPE 1 | |
| CCR31 | REGULATOR | 08538 | 30 | 5 | RW–8R EDGE | R8E | 2–1/C #8 5kV | L | R8E–1 | R8E–2 | 12/C #16 TYPE 1 | 08603 | 08671 | 12/C #16 TYPE 1 | |
| CCR32 | REGULATOR | 08539 | 20 | 5 | RW–8/26 CENTERLINE | R8C1 | 2–1/C #8 5kV | L | R8C1–1 | R8C1–2 | 12/C #16 TYPE 1 | 08604 | 08672 | 12/C #16 TYPE 1 | |
| CCR33 | REGULATOR | 08540 | 20 | 5 | RW–8/26 CENTERLINE | R8C2 | 2–1/C #8 5kV | L | R8C2–1 | R8C2–2 | 12/C #16 TYPE 1 | 08605 | 08673 | 12/C #16 TYPE 1 | |
| CCR34 | REGULATOR | 08541 | 20 | 3 | RW–8 SIGNS AND WINDCONE | RDRWC | 2–1/C #8 5kV | L | RDRWC–1 | RDRWC–2 | 12/C #16 TYPE 1 | 08606 | 08674 | 12/C #16 TYPE 1 | |
| CCR35 | REGULATOR | 08542 | 20 | 5 | RW–8 TDZ LIGHTS | R8TDZ | 2–1/C #8 5kV | L | R8TDZ–1 | R8TDZ–2 | 12/C #16 TYPE 1 | 08607 | 08675 | 12/C #16 TYPE 1 | |
| CCR36 | REGULATOR | 08543 | 30 | 3 | | | | | | | 12/C #16 TYPE 1 | 08608 | | 12/C #16 TYPE 1 | |
| CSW7 | SWITCH | 08544 | | | TW–R EDGE (WEST) | TRE1 | 2–1/C #8 5kV | L | TRE1–1 | TRE1–2 | 12/C #16 TYPE 1 | | 08676 | | |
| CSW7 | SWITCH | | | | TW–R EDGE (EAST) | TRE2 | 2–1/C #8 5kV | L | TRE2–1 | TRE2–2 | | | 08677 | | |
| CCR37 | REGULATOR | 08545 | 30 | | TW–R CENTERLINE LIGHTS (WEST) | TRC1 | 2–1/C #8 5kV | L | TRC1–1 | TRC1–2 | 12/C #16 TYPE 1 | 08609 | 08678 | 12/C #16 TYPE 1 | |
| CCR38 | REGULATOR | 08546 | 20 | 3 | TW–R CENTERLINE LIGHTS (WEST) | TRC2 | 2–1/C #8 5kV | L | TRC2–1 | TRC2–2 | 12/C #16 TYPE 1 | 08610 | 08679 | 12/C #16 TYPE 1 | |
| CCR39 | REGULATOR | 08547 | 30 | 3 | TW–R CENTERLINE LIGHTS (EAST) | TRC3 | 2–1/C #8 5kV | L | TRC3–1 | TRC3–2 | 12/C #16 TYPE 1 | 08611 | 08680 | 12/C #16 TYPE 1 | |
| CCR59 | REGULATOR | 08723 | 20 | 3 | TW–R–5 CENTERLINE LIGHTS | TRC4 | 2–1/C #8 5kV | K | TRC4–1 | TRC4–2 | 12/C #16 TYPE 1 | 08721 | 08722 | 12/C #16 TYPE 1 | |
| CCR40 | REGULATOR | 08548 | 20 | 3 | | | | | | | 12/C #16 TYPE 1 | 08612 | | 12/C #16 TYPE 1 | |
| CSW13 | SWITCH | 08991 | | | TW–R SIGNS (WEST) | GS1 | 2–1/C #8 5kV | K | GS1–1 | GS1–2 | 12/C #16 TYPE 1 | | 08681 | | |
| CSW13 | SWITCH | | | | TW–R SIGNS (EAST) | GS2 | 2–1/C #8 5kV | K | GS2–1 | GS2–2 | | | 08650 | | |
| CCR67 | REGULATOR | 08992 | 30 | 3 | SOUTH CARGO CENTERLINE LIGHTS | TAC2 | 2–1/C #8 5kV | K | TAC2–1 | TAC2–2 | 12/C #16 TYPE 1 | 08583 | | 12/C #16 TYPE 1 | |
| CCR66 | REGULATOR | 08993 | 10 | 3 | SOUTH CARGO SIGNS | TAS1 | 2–1/C #8 5kV | K | TAS1–1 | TAS1–2 | 12/C #16 TYPE 1 | | | 12/C #16 TYPE 1 | |
| CCR41 | REGULATOR | 08549 | 30 | 3 | SOUTH CARGO CENTERLINE LIGHTS | TAC1 | 2–1/C #8 5kV | K | TAC1–1 | TAC1–2 | 12/C #16 TYPE 1 | 08613 | 08682 | 12/C #16 TYPE 1 | |
| CCR42 | REGULATOR | 08550 | 30 | 3 | TW–R STOP BARS | TRSB | 2–1/C #8 5kV | K | TRSB–1 | TRSB–2 | 12/C #16 TYPE 1 | 08614 | 08683 | 12/C #16 TYPE 1 | |
| CCR43 | REGULATOR | 08551 | 10 | 3 | TW–R WIG WAGS AND SIGNS | TRWW | 2–1/C #8 5kV | K | TRWW–1 | TRWW–2 | 12/C #16 TYPE 1 | 08615 | 08684 | 12/C #16 TYPE 1 | |
| CCR44 | REGULATOR | 08552 | 10 | 3 | | | | | | | 12/C #16 TYPE 1 | 08616 | | 12/C #16 TYPE 1 | |
| CSW8 | SWITCH | 08553 | | | TW ZN EDGE LIGHTS | TZNE1 | 2–1/C #8 5kV | J | TZNE1–1 | TZNE1–2 | 12/C #16 TYPE 1 | | 08685 | | |
| CSW8 | SWITCH | | | | TW WC EDGE LIGHTS | TWCE2 | 2–1/C #8 5kV | J | TWCE2–1 | TWCE2–2 | | | 08686 | | |
| CSW8 | SWITCH | | | | SPARE | | | | | | | | | | |
| CCR45 | REGULATOR | 08554 | 30 | 3 | | | | | | | 12/C #16 TYPE 1 | 08617 | | 12/C #16 TYPE 1 | |
| CSW9 | SWITCH | 08555 | | | RAMP TW–AA CENTERLINE | TAAC1 | 2–1/C #8 5kV | J | TAAC1–1 | TAAC1–2 | 12/C #16 TYPE 1 | | 08688 | | |
| CSW9 | SWITCH | | | | RAMP TW–AN CENTERLINE | TANC1 | 2–1/C #8 5kV | J | TANC1–1 | TANC1–2 | | | 08689 | | |
| CCR46 | REGULATOR | 08556 | 30 | 3 | | | | | | | 12/C #16 TYPE 1 | 08618 | | 12/C #16 TYPE 1 | |
| CSW10 | SWITCH | 08557 | | | RAMP TW–AS CENTERLINE | TASC1 | 2–1/C #8 5kV | J | TASC1–1 | TASC1–2 | 12/C #16 TYPE 1 | | 08690 | | |
| CSW10 | SWITCH | | | | RAMP TW–BS CENTERLINE | TBSC | 2–1/C #8 5kV | J | TBSC–1 | TBSC–2 | | | 08691 | | |
| CCR47 | REGULATOR | 08558 | 30 | 3 | | | | | | | 12/C #16 TYPE 1 | 08619 | | 12/C #16 TYPE 1 | |
| CSW11 | SWITCH | 08559 | | | RAMP TW–BN CENTERLINE | TBNC1 | 2–1/C #8 5kV | J | TBNC1–1 | TBNC1–2 | 12/C #16 TYPE 1 | | 08692 | | |
| CSW11 | SWITCH | | | | RAMP TW–CN CENTERLINE | TCNC1 | 2–1/C #8 5kV | J | TCNC1–1 | TCNC1–2 | | | 08693 | | |
| CCR48 | REGULATOR | 08560 | 30 | 3 | | | | | | | 12/C #16 TYPE 1 | 08620 | | 12/C #16 TYPE 1 | |
| CSW12 | SWITCH | 08561 | | | RAMP TW–CS CENTERLINE | TCSC1 | 2–1/C #8 5kV | J | TCSC1–1 | TCSC1–2 | 12/C #16 TYPE 1 | | 08694 | | |
| CSW12 | SWITCH | | | | RAMP TW–X CENTERLINE | TXC1 | 2–1/C #8 5kV | J | TXC1–1 | TXC1–2 | | | 08695 | | |
| CCR49 | REGULATOR | 08562 | 30 | 3 | | | | | | | 12/C #16 TYPE 1 | 08621 | | 12/C #16 TYPE 1 | |
| CSW19 | SWITCH | | | | RAMP TW–L EDGE LIGHTS | TLE1 | 2–1/C #8 5kV | J | TLE1–1 | TLE1–2 | 12/C #16 TYPE 1 | | 08696 | | |
| CSW19 | SWITCH | | | | TAMP TW–L EDGE LIGHTS | TLE2 | 2–1/C #8 5kV | J | TLE2–1 | TLE2–2 | | | 08697 | | |
| CSW19 | SWITCH | | | | SOUTH CARGO EDGE LIGHTS | TAE1 | 2–1/C #8 5kV | J | TAE1–1 | TAE1–2 | | | 08687 | | |
| CSW19 | SWITCH | | | | SPARE | | | | | | | | | | |
| CCR50 | REGULATOR | 08564 | 30 | 3 | RAMP TW–K EDGE LIGHTS | TKE1 | 2–1/C #8 5kV | J | TKE1–1 | TKE1–2 | 12/C #16 TYPE 1 | 08622 | 08698 | 12/C #16 TYPE 1 | |
| CCR51 | REGULATOR | 08565 | 30 | 3 | RAMP TW–L CENTERLINE LIGHTS | TLC1 | 2–1/C #8 5kV | J | TLC1–1 | TLC1–2 | 12/C #16 TYPE 1 | 08623 | 08699 | 12/C #16 TYPE 1 | |
| CCR52 | REGULATOR | 08566 | 20 | 3 | RAMP TW–L CENTERLINE LIGHTS | TLC3 | 2–1/C #8 5kV | J | TLC3–1 | TLC3–2 | 12/C #16 TYPE 1 | 08624 | 08700 | 12/C #16 TYPE 1 | |
| CCR53 | REGULATOR | 08567 | 20 | 3 | RAMP TW–L SIGNS | TLS1 | 2–1/C #8 5kV | I | TLS1–1 | TLS1–2 | 12/C #16 TYPE 1 | 08625 | 08701 | 12/C #16 TYPE 1 | |
| | | | | | RAMP TW–K SIGNS | TKS1 | 2–1/C #8 5kV | I | TKS1–1 | TKS1–2 | | | 08994 | | |
| CCR54 | REGULATOR | 08568 | 20 | 3 | RAMP TW–L SIGNS | TLS2 | 2–1/C #8 5kV | I | TLS2–1 | TLS2–2 | 12/C #16 TYPE 1 | 08626 | 08702 | 12/C #16 TYPE 1 | |

NOTES:

1. SEE SHEETS E–001 FOR GENERAL ELECTRICAL NOTES.

NOTES:

1. THIS SHEET IS FOR REFERENCE ONLY. NO NEW CCR'S WILL BE INSTALLED ON THIS SHEET SCHEDULE.




CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE: 17R35L CCR SCHEDULE

SHEET NO. EL753 295 OF 396

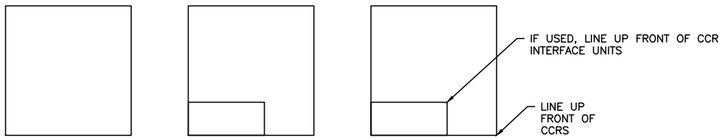
CADD FILE NO. _201735882-B1EELD-6289

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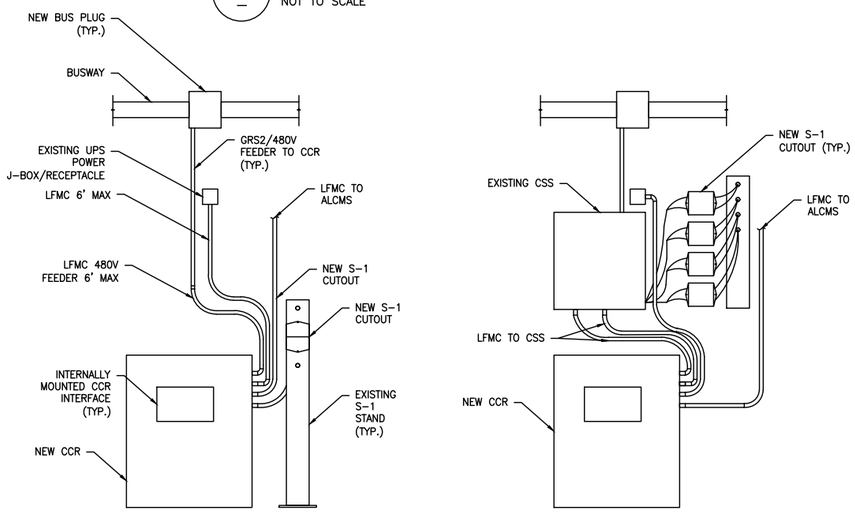
D:\dropbox (lean photometrics)\active projects\15718010a rah den 17r-35l reconstruction\01 drawings\working drawings\sheets_201735882-B1EELD-6289.dwg Feb 12, 2019 - 5:24pm Kat

## NOTES:

1. INSTALLATION SHALL MEET ALL THE REQUIREMENTS OF THE NEC AND CITY/COUNTY OF DENVER CODE REQUIREMENTS INCLUDING BUT NOT LIMITED TO GROUNDING, STRAPPING OF CONDUIT, WIRE SIZE, ACCESSIBILITY.
2. ALL INSTALLATIONS SHALL BE DONE IN A NEAT AND PROFESSIONAL MANNER. THE INSTALLATION MEANS AND METHODS SHALL BE SUBMITTED TO THE AIRPORT FOR APPROVAL PRIOR TO INSTALLATION. INSTALLATION MEANS AND METHODS NOT APPROVED BY THE AIRPORT SHALL BE MODIFIED TO MEET THE APPROVAL OF THE AIRPORT AT NO ADDITIONAL COST TO THE AIRPORT.
3. CONTRACTOR SHALL REMOVE ALL EXISTING MOUNTING HARDWARE EXCEPT AS NOTED AND REPLACE WITH NEW MOUNTING HARDWARE.
4. EXISTING CCR INTERFACE UNITS FOR THE ALCMS SHALL BE PROTECTED AND DELIVERED TO THE AIRPORT IMMEDIATELY AFTER REMOVAL. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING INTERFACE UNITS THAT ARE DAMAGED DUE TO THE REMOVAL BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE AIRPORT. COORDINATE WITH THE AIRPORT FOR LOCATION TO DELIVER THE UNITS.
5. EXISTING BUS PLUGS, S-1 CUTOUTS, CCR'S SHALL BE PROTECTED AND DELIVERED TO THE AIRPORT IMMEDIATELY AFTER REMOVAL. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING BUS PLUGS, S-1 CUTOUTS, CCR'S THAT ARE DAMAGED DUE TO THE REMOVAL BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE AIRPORT. COORDINATE WITH THE AIRPORT FOR LOCATION TO DELIVER THE BUS PLUGS, S-1 CUTOUTS, CCR'S.
6. CONTRACTOR SHALL PROTECT ALL EXISTING CIRCUIT SELECTOR SWITCHES (CSS), ADB BRITE MASTER EQUIPMENT AND ANY OTHER EXISTING EQUIPMENT IN THE EAST AIRFIELD LIGHTING VAULT THAT IS NOT IDENTIFIED TO BE REMOVED AS PART OF THIS PROJECT. ANY EXISTING EQUIPMENT THAT IS TO REMAIN THAT IS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AND CALIBRATED AS REQUIRED FOR AN OPERATIONAL SYSTEM BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE AIRPORT.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL REMOVED CONDUIT, WIRING AND MOUNTING HARDWARE REMOVED FROM THE EXISTING INSTALLATION.
8. EQUIPMENT GROUNDING CONDUCTOR SHALL BE #6 AWG COPPER WITH PROPERLY SIZED LUGS.
9. CONDUIT SHALL BE GALVANIZED RIGID STEEL (GRS) OR LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC). THE LENGTH OF THE LFMC SHALL NOT EXCEED SIX (6) FEET.
10. UNLESS NOTED OTHERWISE AT A MINIMUM THE CONTRACTOR SHALL SIZE CONDUIT TO MEET THE REQUIREMENTS OF COMBINATION OF THE NUMBER OF CONDUCTORS, INSULATION TYPE AND SIZE OF CONDUCTORS.
11. UNLESS OTHERWISE NOTED AT A MINIMUM THE SIZE OF EQUIPMENT GROUNDING CONDUCTORS SHALL MEET CODE REQUIREMENTS.
12. EQUIPMENT SHALL BE INSTALLED WITH THE FRONT IN A STRAIGHT LINE WITH OTHER EQUIPMENT AND IN-LINE WITH EXISTING EQUIPMENT RACKING, I.E. CCR'S SHALL LINE UP WITH OTHER CCR'S INSTALLED , CCR INTERFACE UNITS SHALL LINE UP WITH OTHER CCR INTERFACE UNITS , ETC. CODE REQUIRED ACCESSIBILITY REQUIREMENTS SHALL BE MET.
13. ALL EQUIPMENT AND MOUNTING HARDWARE SHALL BE INSTALLED LEVEL.
14. STRUT SHALL BE CONNECTED WITH FACTORY MADE BRACKETS, SPRING BOLTS, FLOOR PLATES, ETC. ALL EQUIPMENT MOUNTING HARDWARE SHALL BE SECURE AND BRACED TO PREVENT MOVEMENT. MOUNTING HARDWARE THAT MOVES BY HAND PRESSURE SHALL BE REPLACED OR CORRECTED AT NOT ADDITIONAL COST TO THE AIRPORT.



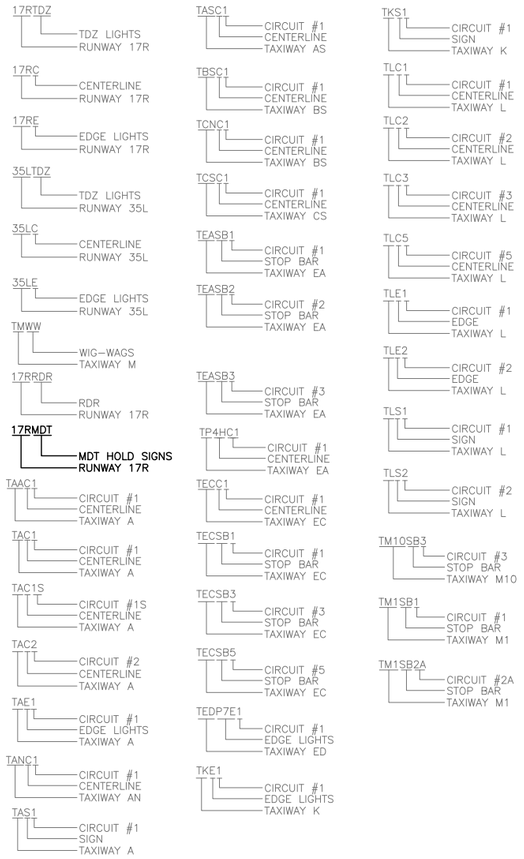

1 — CCR INSTALL DETAIL
NOT TO SCALE




3A — NO CSS
NOT TO SCALE

3B — WITH CSS
NOT TO SCALE

3 — TYPICAL CCR WITH INTERNAL INTERFACE
NOT TO SCALE




NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

* BOLD DENOTES (N) CCR,

2 — EXPLANATION OF CIRCUIT DESIGNATION
NOT TO SCALE

COLORADO LICENSED
BYRON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE

## CIRCUIT DESIGNATION

SHEET NO. EL755
296 OF 396
CADD FILE NO. _201735882-B1EELD-6289

NOTES:

1. SEE SHEETS E–001 FOR GENERAL ELECTRICAL NOTES.

## VOLTAGE DROP CALCULATION

Form Date: 12/31/2017

PROJECT: Denver International RW 17R-35L — SYSTEM VOLTAGE: 2400
NUMBER: — SYSTEM PHASE: 1
VOLT DROP CALCULATION BASED ON CHAPTER 9 OF THE NATIONAL ELECTRICAL CODE
PREPARED BY: Gil Heinrichs, LEAN ENGINEERING — METRIC (Y/N): N — Date: 12/4/2018

| LOAD DESCRIPTION | NOMINAL VOLTAGE | SYSTEM PHASE | STARTING VOLTAGE | POWER FACTOR | LENGTH OF CIRCUIT IN FEET | CURRENT IN AMPS | FINAL WIRE SIZE | FINAL WIRE RUNS | REQ'D GND WIRE SIZE | LINE TO NEUTRAL Y/N | MAGNETIC CONDUIT Y/N | WIRE TYPE Copper Aluminum | VOLTS DROPPED | SINGLE RUN PERCENT | ADD % TO OTHER LOAD Y/N | ADD TO WHAT LOAD | ENDING VOLTAGE | TOTAL PERCENT DROPPED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | |
| CKT 35LCP1 - ALV to EMH 08033 | 2400 | 1 | 2400.0 | 100% | 6850.0 | 8.3 | 4 | 1 | 6 | Y | Y | C | 35.3 | 1.47% | N | | 2364.7 | 1.47% |
| EMH 08033 to XFMR T-2 (2.4kV) | 2400 | 1 | 2364.7 | 100% | 2050.0 | 4.2 | 6 | 1 | 10 | Y | Y | C | 8.4 | 0.35% | Y | 35LCP1 - ALV to EMH 08 | 2356.3 | 1.82% |
| XFMR T-2 to MPZ-2 (480V) | 480 | 1 | 480.0 | 100% | 10.0 | 10.4 | 10 | 1 | 10 | N | Y | C | 0.2 | 0.05% | N | | 479.8 | 0.05% |
| MPZ-2 to RPU SOUTH (120V) | 120 | 1 | 120.0 | 100% | 25.0 | 10.0 | 12 | 1 | 12 | Y | Y | C | 1.0 | 0.83% | N | | 119.0 | 0.83% |
| EMH 08033 to XFMR T-1 (2.4 kV) | 2400 | 1 | 2364.7 | 100% | 5270.0 | 4.2 | 6 | 1 | 10 | Y | Y | C | 21.7 | 0.90% | Y | 35LCP1 - ALV to EMH 08 | 2343.1 | 2.37% |
| XFMR "T-1" to "MPZ-1" (480V) | 480 | 1 | 480.0 | 100% | 10.0 | 10.4 | 12 | 1 | 12 | N | Y | C | 0.4 | 0.09% | N | | 479.6 | 0.09% |
| "MPZ-1" to I/O SOUTH (120V) | 120 | 1 | 120.0 | 100% | 25.0 | 10.0 | 12 | 1 | 12 | Y | Y | C | 1.0 | 0.83% | N | | 119.0 | 0.83% |
| "MPZ-1" to"CCTV#1" (120V) | 120 | 1 | 120.0 | 100% | 40.0 | 2.0 | 12 | 1 | 12 | Y | Y | C | 0.3 | 0.27% | N | | 119.7 | 0.27% |
| | | | | | | | | | | | | | | | | | | |
| CKT 35LCP2 to EMH 08006A(2.4 kV) | 2400 | 1 | 2400.0 | 100% | 1710.0 | 8.3 | 6 | 1 | 10 | Y | Y | C | 13.9 | 0.58% | N | | 2386.1 | 0.58% |
| EMH 08006A to XFMR T-3 (2.4 kV) | 2400 | 1 | 2386.1 | 100% | 2325.0 | 4.2 | 6 | 1 | 10 | Y | Y | C | 9.6 | 0.40% | Y | 5LCP2 to EMH 08006A(2 | 2376.5 | 0.98% |
| XFMR T-3 to MPZ-3 (480V) | 480 | 1 | 480.0 | 100% | 10.0 | 10.4 | 10 | 1 | 10 | N | Y | C | 0.2 | 0.05% | N | | 479.8 | 0.05% |
| MPZ-3 to RPU SOUTH (120V) | 120 | 1 | 120.0 | 100% | 25.0 | 10.0 | 12 | 1 | 12 | Y | Y | C | 1.0 | 0.83% | N | | 119.0 | 0.83% |
| EMH 008006A to XFMR T-4 (2.4kV) | 2400 | 1 | 2386.1 | 100% | 2040.0 | 4.2 | 6 | 1 | 10 | Y | Y | C | 8.4 | 0.35% | Y | 5LCP2 to EMH 08006A(2 | 2377.7 | 0.93% |
| XFMR "T-4" to "MPZ-4" (480V) | 480 | 1 | 480.0 | 100% | 10.0 | 10.4 | 10 | 1 | 10 | N | Y | C | 0.2 | 0.05% | N | | 479.8 | 0.05% |
| "MPZ-4" to I/O SOUTH (120V) | 120 | 1 | 120.0 | 100% | 40.0 | 10.0 | 12 | 1 | 12 | Y | Y | C | 1.6 | 1.33% | N | | 118.4 | 1.33% |
| "MPZ-4" to CCTV#2 (120V) | 120 | 1 | 120.0 | 100% | 25.0 | 2.0 | 12 | 1 | 12 | Y | Y | C | 0.2 | 0.17% | N | | 119.8 | 0.17% |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

1 — 35LCP1 & 35LCP2 – VOLTAGE DROP
NOT TO SCALE




CITY & COUNTY of DENVER
DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
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| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: 35LCP1 & 35LCP2 VOLTAGE DROP
SHEET NO. EL759

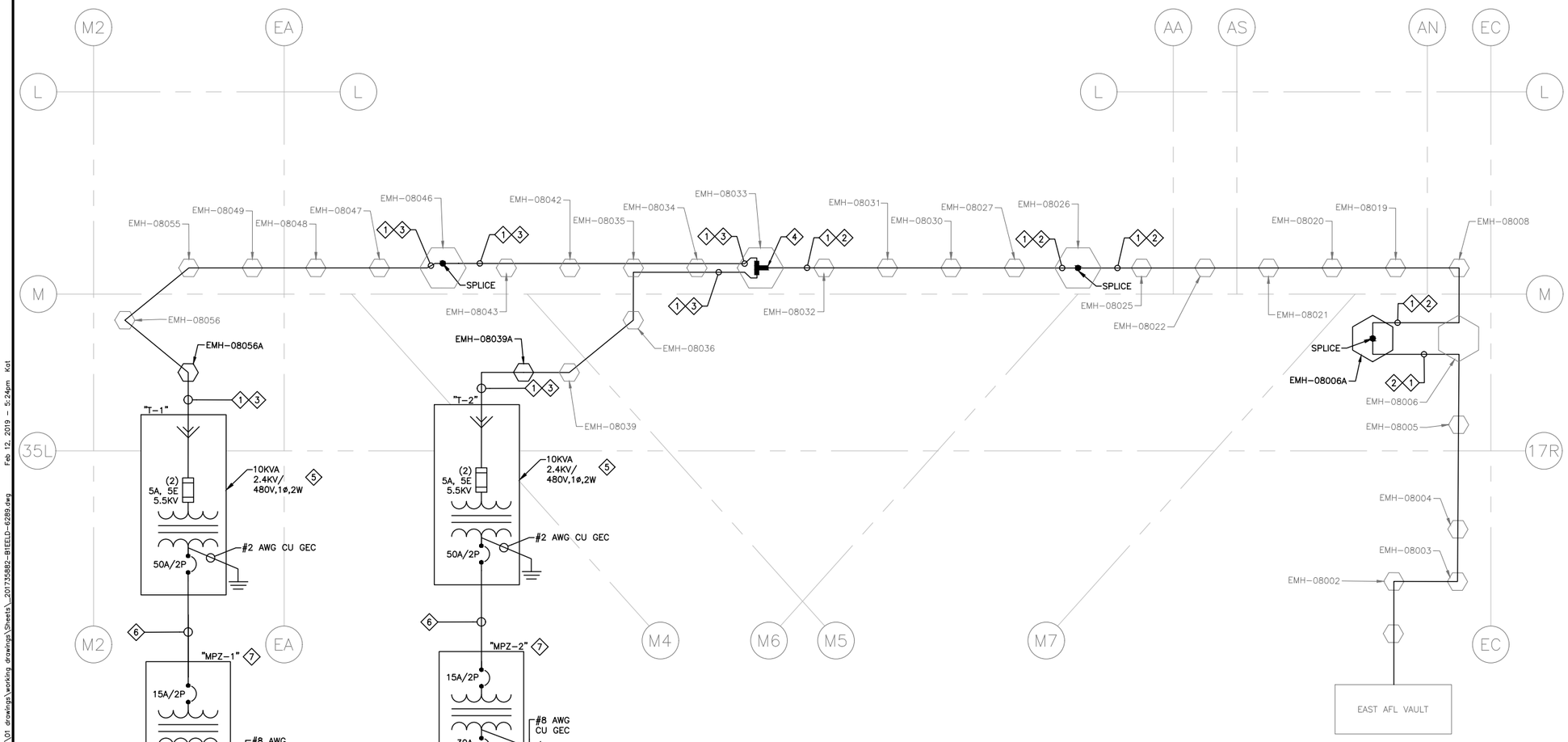
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LEGEND:

- XX — TAXIWAY/RUNWAY DESIGNATION
- TAXIWAY/RUNWAY CENTERLINE
- (N) CABLE AS NOTED
- (E) ELECTRICAL MANHOLE
- (N) ELECTRICAL MANHOLE
- (N) SPLICE
- (N) TAP SPLICE

| START | END | APPROXIMATE DISTANCES |
|---|---|---|
| EAST VAULT | EMH–08006A | 1710' |
| EMH–08006A | EMH–08026 | 2575' |
| EMH–08026 | EMH–08033 | 2575' |
| EMH–08033 | RPU SOUTH | 2050' |
| EMH–08033 | EMH–08046 | 2815' |
| EMH–08046 | SOUTH R I/O | 2455' |




1 / _ 35LCP1 SINGLE LINE DIAGRAM
NOT TO SCALE

NOTES:

1. SEE SHEETS E–001 FOR GENERAL ELECTRICAL NOTES.

KEY NOTES:

1. 2.4KV CIRCUIT INDICATED IS CONNECTED TO 15 KVA DRY–TYPE TRANSFORMER XT–1 IN EXISTING AIRFIELD LIGHTING VAULT, AVL.
2. NEW (2) – 1/C #4AWG, CU, SHLD, EPR, MV105, 5 KV IN EXISTING CONDUIT. SHIELDING SHALL BE GROUNDED AT EACH SPLICE. DO NOT EXCEED MAXIMUM PULLING TENSION RECOMMENDED BY THE CABLE MANUFACTURER, OKONITE OR EQUAL. PROVIDE 2"C., WHERE THERE IS NO EXISTING CONDUIT COMPLETE WITH TRENCH/BACKFILL/ENCASEMENT AND #2AWG, BARE CU, COUNTERPOISE GROUND CONDUCTOR.
3. NEW (2) – 1/C #6AWG, CU, SHLD, EPR, MV105, 5 KV IN EXISTING CONDUIT. SHIELDING SHALL BE GROUNDED AT EACH SPLICE. DO NOT EXCEED MAXIMUM PULLING TENSION RECOMMENDED BY THE CABLE MANUFACTURER, OKONITE OR EQUAL. PROVIDE 2"C., WHERE THERE IS NO EXISTING CONDUIT COMPLETE WITH TRENCH/BACKFILL/ENCASEMENT AND #2AWG, BARE CU, COUNTERPOISE GROUND CONDUCTOR.
4. NEW (2) – 1/C 5KV "T" OR "Y" SPLICES IN NEW EMH, TO PROVIDE CIRCUIT TAP FOR 2,400 VOLT CIRCUIT. SPLICES TO BE 3–M, OR EQUIVALENT.
5. NEW 10 KVA, SEED OIL–FILLED (FR3), 2,400 VOLT, SINGLE PHASE (L–L) TO 240/480 VOLT, 1 PHASE, 3 WIRE, PADMOUNTED TRANSFORMER WITH PRIMARY BAY–O–NET FUSES AND SECONDARY CIRCUIT BREAKER COMPLETE WITH ALL ANSI/IEEE STANDARD ACCESSORIRES, CONCRETE PAD, AND GROUNDING SYSTEM. TRANSFORMER SHALL BE AS MANUFCTURED BY COOPER, OR APPROVED EQUAL. FUSES SHALL BE AS INDICATED OR NEXT AVAILABLE STANDARD TRIP RATING. GROUNDING ELECTRODES SHALL CONSIST OF (2) – 3/4" DIA. X 10 '– 0" COPPER CLAD DRIVEN GROUND RODS CONNECTED WITH #3/0 STRANDED BARE COPPER CONDUCTORS. CONNECTIONS SHALL BE IRREVERSIBLE COMPRESSION TYPE. PROVIDE GROUND LUGS TO EQUIPMENT. PROVIDE GROUNDING ELECTRODE CONDUCTORS (GEC) AS INDICATED. PROVIDE 200A, 5KV, RATED, LOAD BREAK ELBOW CONNECTORS FOR EACH 5KV CABLE CONNECTION TO EACH TRANSFORMER. ELBOW CONNECTORS TO BE BY COOPER, OR EQUAL.
6. NEW (2) – 1/C #6AWG, CU, THWN–2, 600V. CONDUCTORS WITH 1/C #6AWG, CU, THWN–2, 600V. EQUIPMENT GROUNDING CONDUCTOR, IN 1.25" CONDUIT (MAX. SIZE).
7. NEW MINI–POWER ZONE FACTORY–ASSEMBLY CONSISTING OF 15A/2P MAIN CB, 5 KVA ENCAPSULATED TRANSFORMER, 480V. SINGLE–PHASE TO 120/240V, 1–PHASE, 3–WIRES, 15A, 2–POLE, PRIMARY CIRCUIT BREAKER, 30A, 2–POLE, SECONDARY MAIN CB, AND 15A, OR 20A,, 1–POLE BRANCH BREAKERS, AS INDICATED. PROVIDE GROUNDING ELECTRODE CONDUCTOR INDICATED TO GROUNDIND ELECTRODE SYSTEM. ENCLOSURE SHALL BE NEMA 3R, MANUFACTURER'S STANDARD FINISH. INTERRUPTING RATING SHALL BE 18KA. PROVIDE RACK MOUNTING AS DETAILED. SQUARE–D #MPZB5S40F, OR APPROVED EQUAL.
8. NEW (2) – 1/C #12AWG (L–N), CU, THWN–2, 600V CONDUCTORS WITH 1/C #12AWG, CU, THWN–2, 600V. EQUIPMENT GROUNDING CONDUCTOR (EGC), IN 1" CONDUIT. PROVIDE TERMINATIONS TO EQUIPMENT INDICATED.

COLORADO LICENSED
AARON LEAN
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2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE

35LCP1 SINGLE LINE DIAGRAM

SHEET NO. EL757
298 OF 396

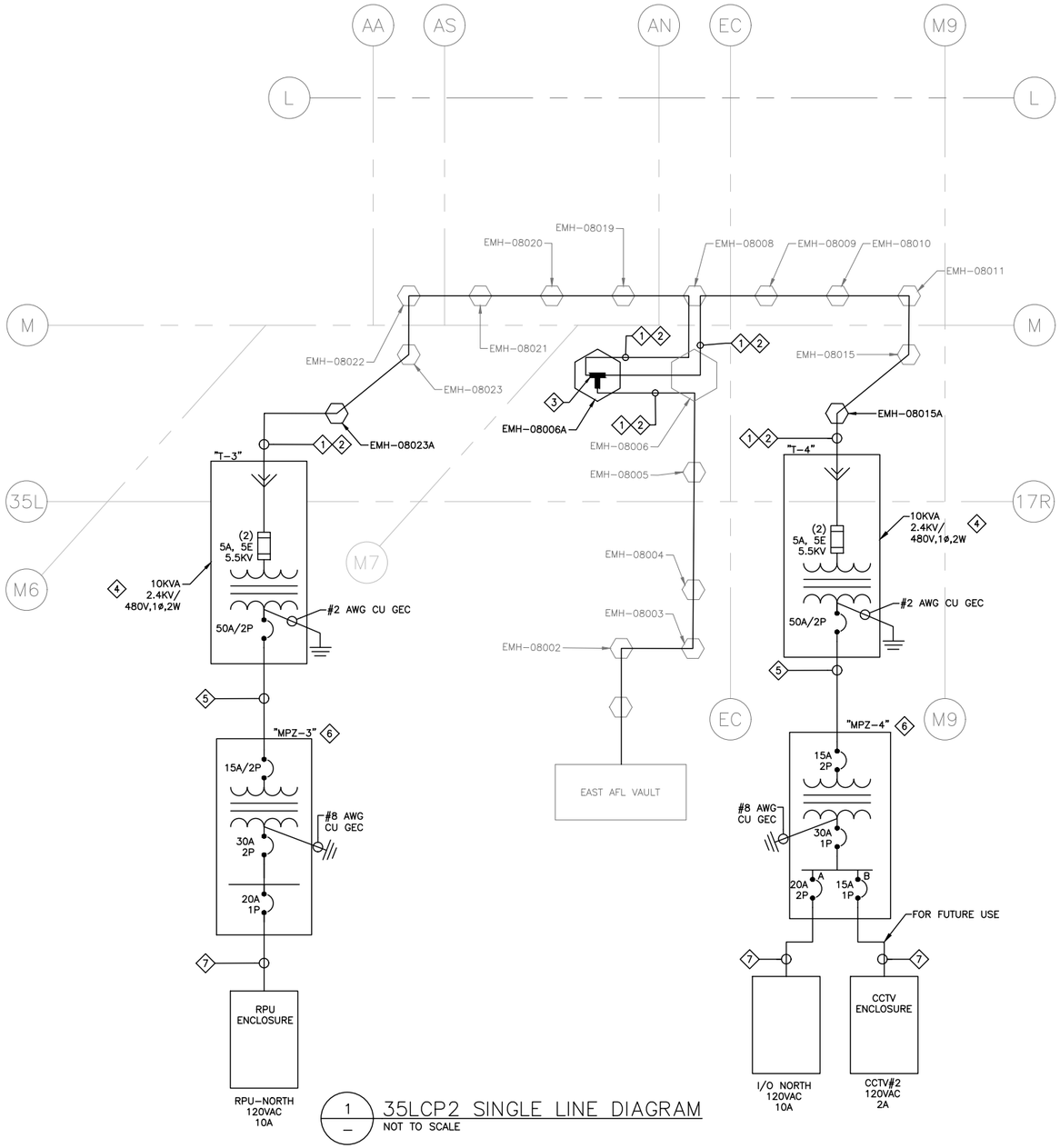
CADD FILE NO. _201735882-B1EELD-6289

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LEGEND:

- XX — TAXIWAY/RUNWAY DESIGNATION
- TAXIWAY/RUNWAY CENTERLINE
- (N) CABLE AS NOTED
- (E) ELECTRICAL MANHOLE
- (N) ELECTRICAL MANHOLE
- (N) SPLICE
- (N) TAP SPLICE

| START | END | APPROXIMATE DISTANCES |
|---|---|---|
| EAST VAULT | EMH-08006A | 1710' |
| EMH-08006A | NORTH R I/O | 2040' |
| EMH-08006A | RPU NORTH | 2325' |




1 — 35LCP2 SINGLE LINE DIAGRAM
NOT TO SCALE

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

KEY NOTES:

1. 2.4KV CIRCUIT INDICATED IS CONNECTED TO 15 KVA DRY-TYPE TRANSFORMER XT-2 IN EXISTING AIRFIELD LIGHTING VAULT, AVL.
2. NEW (2) – 1/C #6AWG, CU, SHLD, EPR, MV105, 5 KV IN EXISTING CONDUIT. SHIELDING SHALL BE GROUNDED AT EACH SPLICE. DO NOT EXCEED MAXIMUM PULLING TENSION RECOMMENDED BY THE CABLE MANUFACTURER, OKONITE OR EQUAL. PROVIDE 2"C., WHERE THERE IS NO EXISTING CONDUIT COMPLETE WITH TRENCH/BACKFILL/ENCASEMENT AND #2AWG, BARE CU, COUNTERPOISE GROUND CONDUCTOR.
3. NEW (2) – 1/C 5KV "T" OR "Y" SPLICES IN NEW EMH, TO PROVIDE CIRCUIT TAP FOR 2,400 VOLT CIRCUIT. SPLICES TO BE 3-M, OR EQUIVALENT.
4. NEW 10 KVA, SEED OIL-FILLED (FR3), 2,400 VOLT, SINGLE PHASE (L-L) TO 240/480 VOLT, 1 PHASE, 3 WIRE, PADMOUNTED TRANSFORMER WITH PRIMARY BAY-O-NET FUSES AND SECONDARY CIRCUIT BREAKER COMPLETE WITH ALL ANSI/IEEE STANDARD ACCESSORIRES, CONCRETE PAD, AND GROUNDING SYSTEM. TRANSFORMER SHALL BE AS MANUFCTURED BY COOPER, OR APPROVED EQUAL. FUSES SHALL BE AS INDICATED OR NEXT AVAILABLE STANDARD TRIP RATING. GROUNDING ELECTRODES SHALL CONSIST OF (2) – 3/4" DIA. X 10 '– 0" COPPER CLAD DRIVEN GROUND RODS CONNECTED WITH #3/0 STRANDED BARE COPPER CONDUCTORS. CONNECTIONS SHALL BE IRREVERSIBLE COMPRESSION TYPE. PROVIDE GROUND LUGS TO EQUIPMENT. PROVIDE GROUNDING ELECTRODE CONDUCTORS (GEC) AS INDICATED. PROVIDE 200A, 5KV, RATED, LOAD BREAK ELBOW CONNECTORS FOR EACH 5KV CABLE CONNECTION TO EACH TRANSFORMER. ELBOW CONNECTORS TO BE BY COOPER, OR EQUAL.
5. NEW (2) – 1/C #6AWG, CU, THWN-2, 600V. CONDUCTORS WITH 1/C #6AWG, CU, THWN-2, 600V. EQUIPMENT GROUNDING CONDUCTOR, IN 1.25" CONDUIT (MAX. SIZE).
6. NEW MINI-POWER ZONE FACTORY-ASSEMBLY CONSISTING OF 15A/2P MAIN CB, 5 KVA ENCAPSULATED TRANSFORMER, 480V. SINGLE-PHASE TO 120/240V, 1-PHASE, 3-WIRES, 15A, 2-POLE, PRIMARY CIRCUIT BREAKER, 30A, 2-POLE, SECONDARY MAIN CB, AND 15A. OR 20A., 1-POLE BRANCH BREAKERS, AS INDICATED. PROVIDE GROUNDING ELECTRODE CONDUCTOR INDICATED TO GROUNDING ELECTRODE SYSTEM. ENCLOSURE SHALL BE NEMA 3R, MANUFACTURER'S STANDARD FINISH. INTERRUPTING RATING SHALL BE 18KA. PROVIDE RACK MOUNTING AS DETAILED. SQUARE-D #MPZB5S40F, OR APPROVED EQUAL.
7. NEW (2) – 1/C #12AWG (L-N), CU, THWN-2, 600V CONDUCTORS WITH 1/C #12AWG, CU, THWN-2, 600V. EQUIPMENT GROUNDING CONDUCTOR (EGC), IN 1" CONDUIT. PROVIDE TERMINATIONS TO EQUIPMENT INDICATED.

COLORADO LICENSED
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DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L
COMPLEX PAVEMENT
REHABILITATION
PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: 35LCP2 SINGLE LINE DIAGRAM
SHEET NO. EL758 299 OF 396
CADD FILE NO. _201735882-B1EELD-6289

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# EAST VAULT LIGHTING EQUIPMENT AND CABLE SCHEDULE (CONT.)

| EQUIPMENT IDENTIFIER | EQUIPMENT TYPE | EQUIPMENT NUMBER | REGULATOR | | CIRCUIT DESCRIPTION | CIRCUIT NAME | CONDUCTORS REQUIRED | CONDUIT ROUTE | CABLE NUMBERS | | CONTROL CABLE | CIRCUIT BKR EQUIPMENT NUMBER | CUTOUT EQUIPMENT NUMBER | AIRFIELD LIGHTING CIRCUIT MONITERING SYSTEM | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SIZE | STEPS | | | | | L1 | L2 | | | | CONTROL CABLE TO- | INSTRUMENT CABLE TO- | |
| CCR55 | REGULATOR | 08569 | 10 | 3 | TW M CENTERLINE LIGHTS | TMC6 | 2-1/C #8 5kV | I | TMC6-1 | TMC6-2 | 12/C #16 TYPE 1 | 08627 | 08703 | 12/C #16 TYPE 1 | | |
| CCR56 | REGULATOR | 08570 | 20 | 3 | RAMP TW-L EDGE | TLC2 | 2-1/C #8 5kV | I | TLC2-1 | TLC2-2 | 12/C #16 TYPE 1 | 08628 | 08704 | 12/C #16 TYPE 1 | | |
| CCR61 | REGULATOR | 08734 | 20 | 3 | TW M CENTERLINE | TLC5 | 2-1/C #8 5kV | I | TLC5-1 | TLC5-2 | 12/C #16 TYPE 1 | 08735 | 08735 | 12/C #16 TYPE 1 | | |
| CCR62 | REGULATOR | 08733 | 20 | 3 | TW L CENTERLINE LIGHTS | TMC5 | 2-1/C #8 5kV | I | TMC5-1 | TMC5-2 | 12/C #16 TYPE 1 | 08743 | 08743 | 12/C #16 TYPE 1 | | |
| CCR63 | REGULATOR | 08745 | 30 | | TW L CENTERLINE (NORTH OF T/W ZB) | TLC4 | 2-1/C #8 5kV | J | TLC4-1 | TLC4-2 | 12/C #16 TYPE 1 | 08746 | 08746 | 12/C #16 TYPE 1 | | |
| CCR64 | REGULATOR | 08748 | 30 | | TW ZN CENTERLINE LIGHTS | TZNC1 | 2-1/C #8 5kV | I | TZNC1-1 | TZNC1-2 | 12/C #16 TYPE 1 | 08749 | 08749 | 12/C #16 TYPE 1 | | |
| CCR65 | REGULATOR | 08995 | 20 | | TW EE CENTERLINE LIGHTS | TEEC1 | 2-1/C #8 5kV | K | TEEC1-1 | TEEC1-2 | 12/C #16 TYPE 1 | 08996 | 08996 | 12/C #16 TYPE 1 | | |
| | SWITCHBOARD | 08705 | | | | | | | | | | | | | | |
| EPBD-E1 | BUSDUCT | 08706 | | | | | | | | | | | | | | |
| EPBD-E2 | BUSDUCT | 08707 | | | | | | | | | | | | | | |
| EPBD-E3 | BUSDUCT | 08708 | | | | | | | | | | | | | | |
| EPBD-E4 | BUSDUCT | 08709 | | | | | | | | | | | | | | |
| ELP1 | PANELBOARD | 08710 | | | | | | | | | | | | | | |
| EPP1 | PANELBOARD | 08711 | | | | | | | | | | | | | | |
| EMCU1 | MTR CTL UNIT | 08712 | | | | | | | | | | | | | | |
| | GENERATOR | 08713 | | | | | | | | | | | | | | |
| T3 | TRANSFORMER | 08714 | | | CONTROL POWER 8/26 | TRCP | | K | TRCP-1 | TRCP-2 | | 08738 | | | | |
| T4 | TRANSFORMER | 08737 | | | CONTROL POWER 35L | 35LCP1 | | K | 35LCP1-1 | 35LCP1-2 | | 08740 | | | | NEW XFMR |
| T5 | TRANSFORMER | 08739 | | | CONTROL POWER 17L/35R | TPCP | | K | TPCP-1 | TPCP-2 | | 08742 | | | | |
| T6 | TRANSFORMER | 08741 | | | CONTROL POWER 17R | 35LCP2 | | K | 35LCP2-1 | 35LCP2-2 | | | | | | NEW XFMR |
| CCR68 | REGULATOR | | 30 | 3 | RWY 17R/35L MDT SIGNS(5.5 AMPS) | 17 RMDT | 2-1/C #8 5kV | | 17 RMDT-1 | 17 RMDT-2 | 12/C #16 TYPE 1 | | | 12/C #16 TYPE 1 | | NEW CCR |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

NOTES:

1. STENCIL EQUIPMENT NUMBERS PROVIDED ON THIS SCHEDULE ON THE EQUIPMENT IN LETTERS NOT LESS THAN 1 INCH HIGH.
2. WIRING IN MANHOLES SHALL BE INSTALLED WITH ENOUGH SLACK TO ALLOW THE CABLES TO NEATLY ROUTE ON RACKING SYSTEM WITH TERMINATION ON UPPER RACKS AT WALL BETWEEN DUCT ENTRANCES. INCLUDE 2-FOOT DRIP LOOP AT EACH CORNER. EACH CIRCUIT (TWO WIRES) SHALL BE WRAPPED WITH NYLON TIES AT INTERVALS OF NO LESS THAN 24" APART FOR THE ENTIRE DISTANCE OF THE CABLE IN THE MANHOLE. CIRCUITS SHALL ALL BE SECURED TO THE RACKING IN THE MANHOLES WITH NYLON TIES. WIRING SHALL BE NEATLY TRAINED IN THE MANHOLES USING THE RACKING. CONTRACTOR SHALL ADD ADDITIONAL RACKING AS NEEDED AT NO ADDITIONAL COST TO THE CONTRACT IF REQUIRED TO PROVIDE A NEATLY TRAINED INSTALLATION OF THE CABLES. EACH CABLE SHALL BE SPLICED WITH A PROPERLY SIZED L-823 CONNECTOR AND WIRING SHALL BE LABELED WITH PROPER IDENTIFICATION TAGS ON EACH SIDE OF THE L-823 CONNECTOR AND AT EACH END OF THE RACKS ON EACH WALL THAT THE CONDUCTORS ARE SECURED THROUGH. ALL WIRING SHALL BE SECURED SUCH THAT IT DOES NOT HANG BELOW THE RACKING. ANY CONSTANT VOLTAGE CIRCUITS SHALL BE INSTALLED IN A SEPARATE CONDUIT FROM CONSTANT CURRENT CIRCUITS WHEN INSTALLED IN A DUCT BANK OR CONDUIT. IN MANHOLES THE CONSTANT VOLTAGE CIRCUITS SHALL BE SECURED TO RACKING AND SEPARATED FROM CONSTANT CURRENT CIRCUITS BY A MINIMUM OF 6" ON ALL SIDES.

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LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE: 17R35L CCR SCHEDULE

SHEET NO. EL754



CADD FILE NO. _201735882-B1EELD-6289

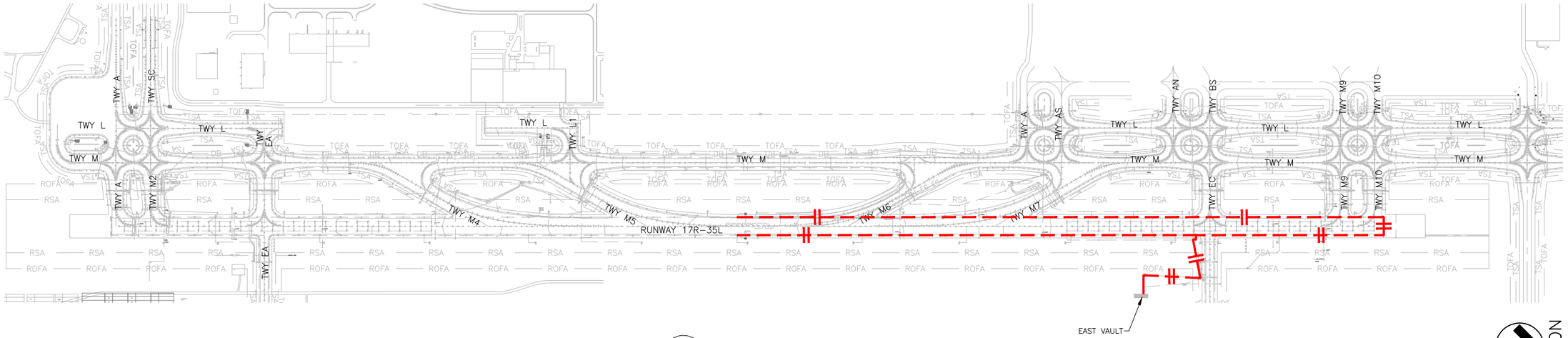
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NOTES:

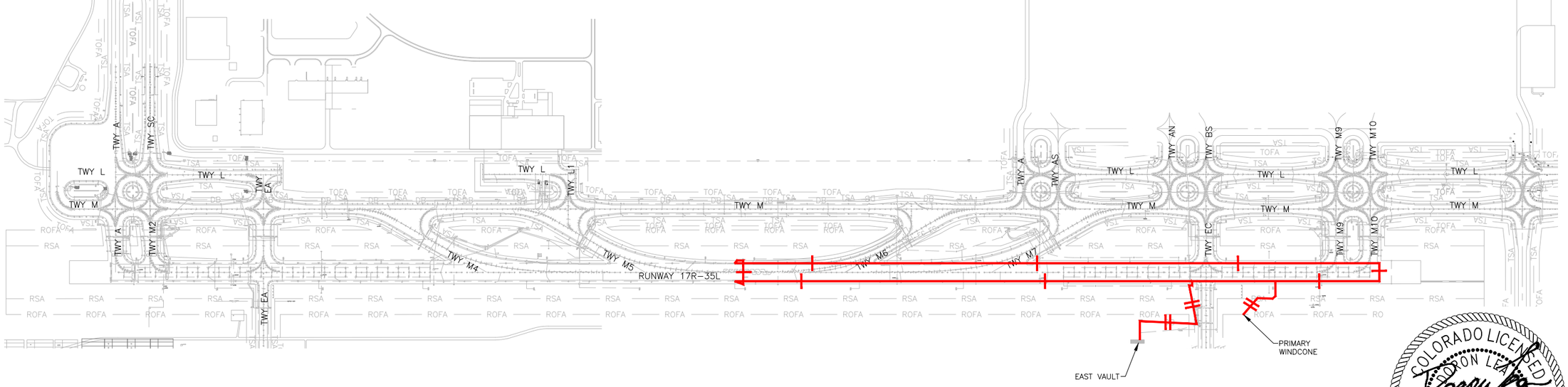
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C




1 — CIRCUIT 17RE – EXISTING
NOT TO SCALE




2 — CIRCUIT 17RE – NEW
NOT TO SCALE

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT 17RE

SHEET NO. EL801
301 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
TODD RON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

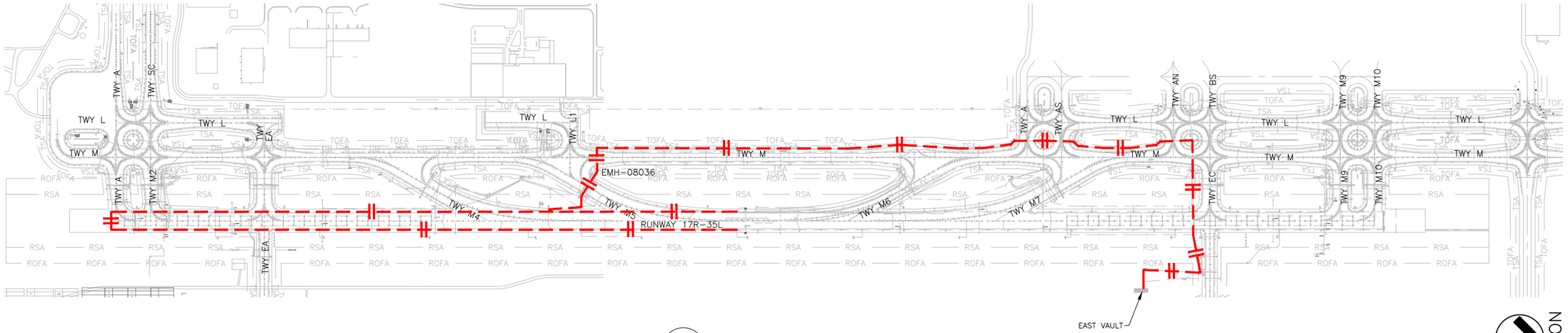
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NOTES:

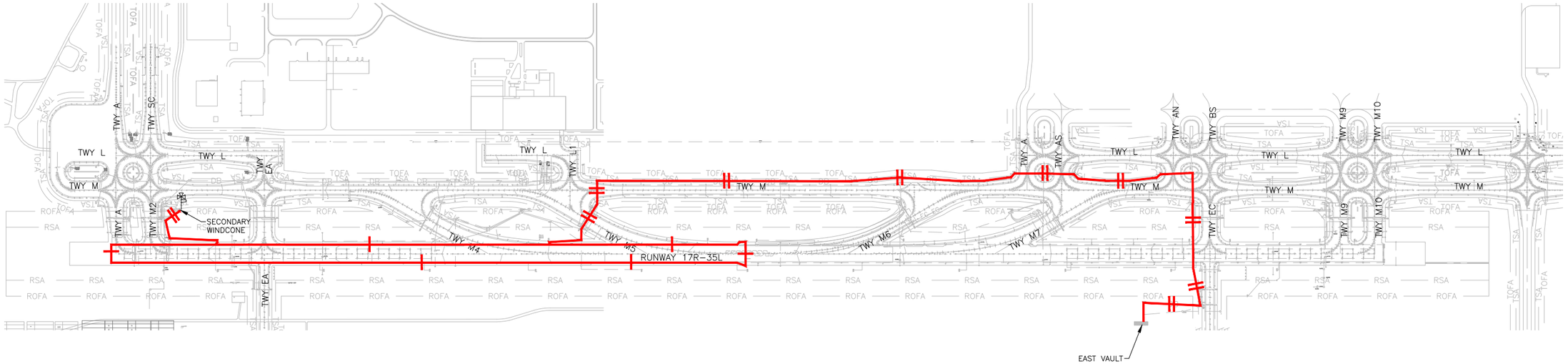
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT 35LE – EXISTING
NOT TO SCALE




2 / – CIRCUIT 35LE – NEW
NOT TO SCALE

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT 35LE

SHEET NO. EL802
302 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
DIXON LEA
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2/15/19
PROFESSIONAL ENGINEER

Feb 12, 2019 – 5:25pm Kat

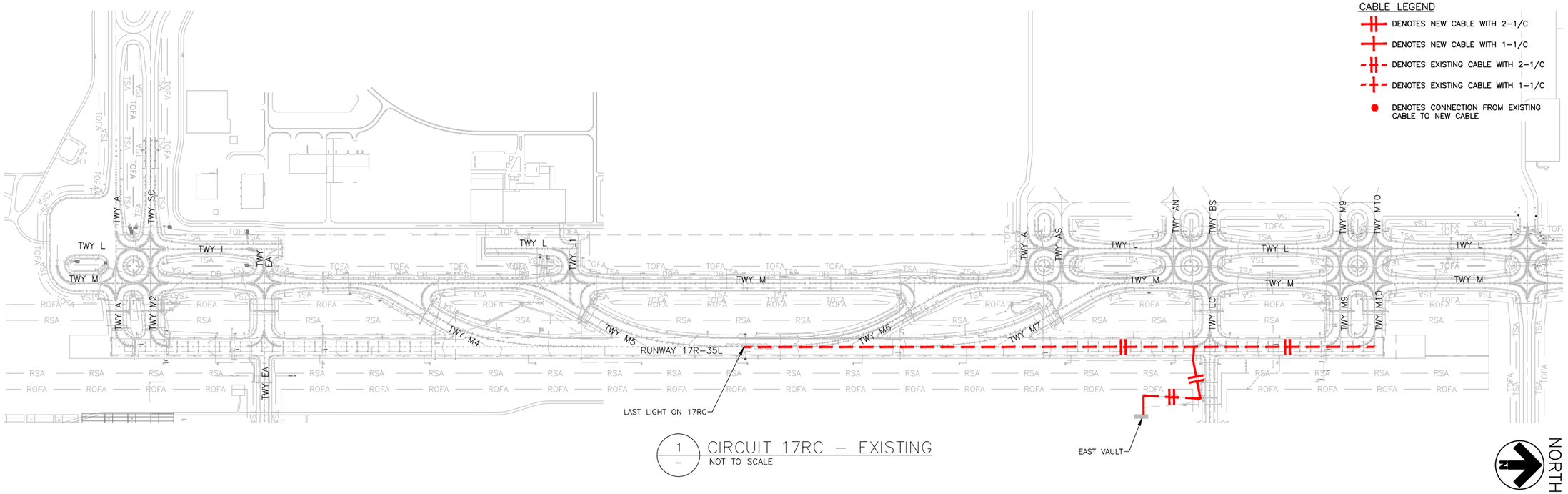
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NOTES:

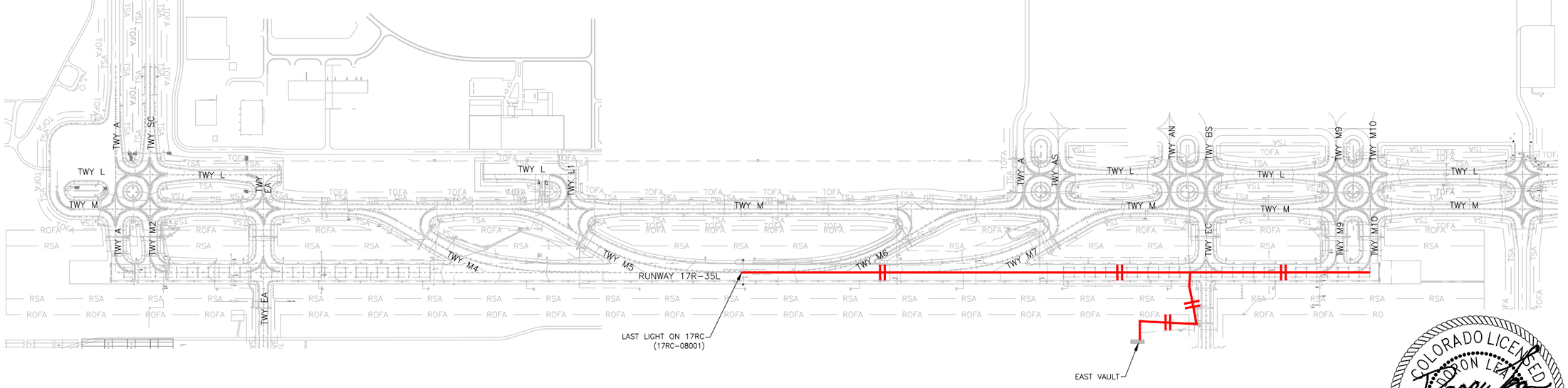
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT 17RC – EXISTING
NOT TO SCALE




1 / – CIRCUIT 17RC – NEW
NOT TO SCALE

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT 17RC

SHEET NO. EL803
303 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
TODD RON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

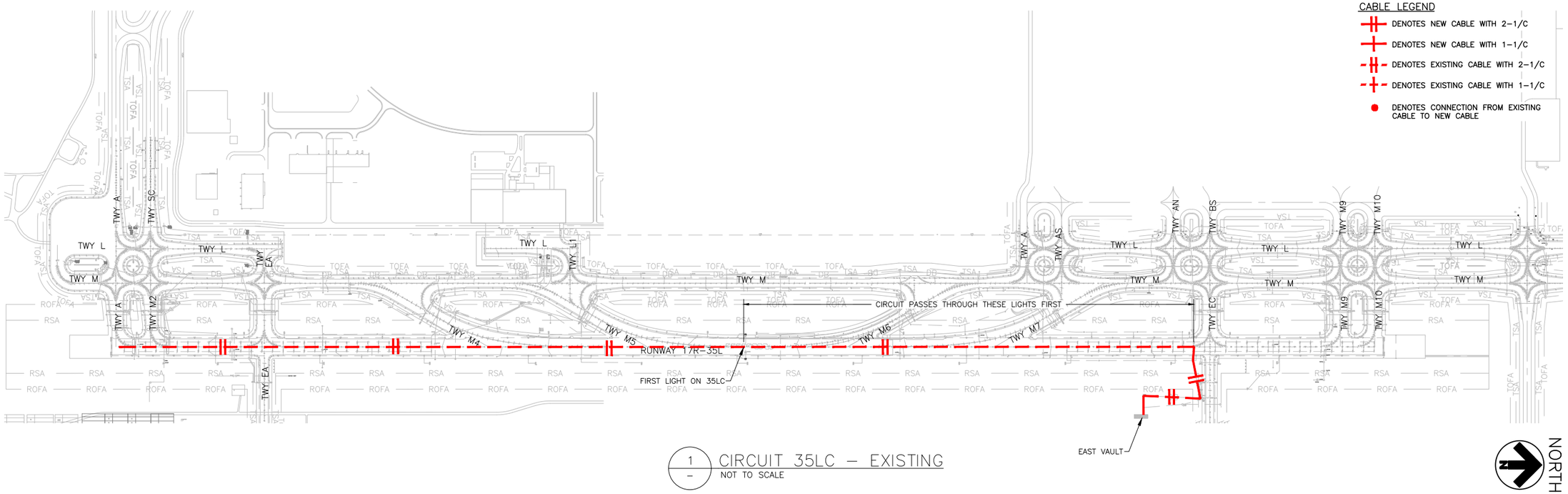
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NOTES:

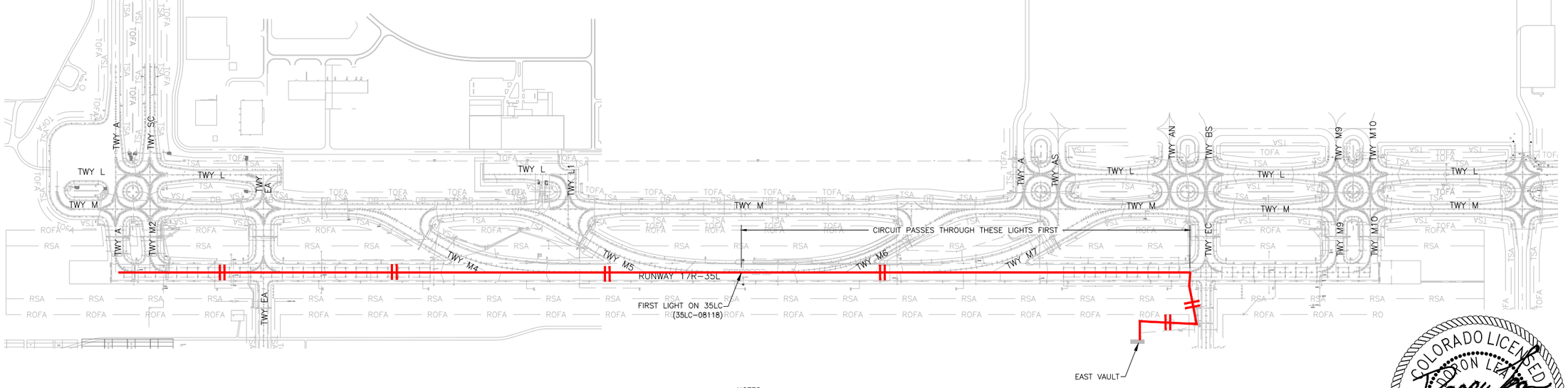
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT 35LC – EXISTING
NOT TO SCALE




NOTES:

1. 35LC MUST BE REPLACED IN ITS ENTIRETY.

1 / – CIRCUIT 35LC – NEW
NOT TO SCALE

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201946271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT 35LC

SHEET NO. EL804
304 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
TODD RON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

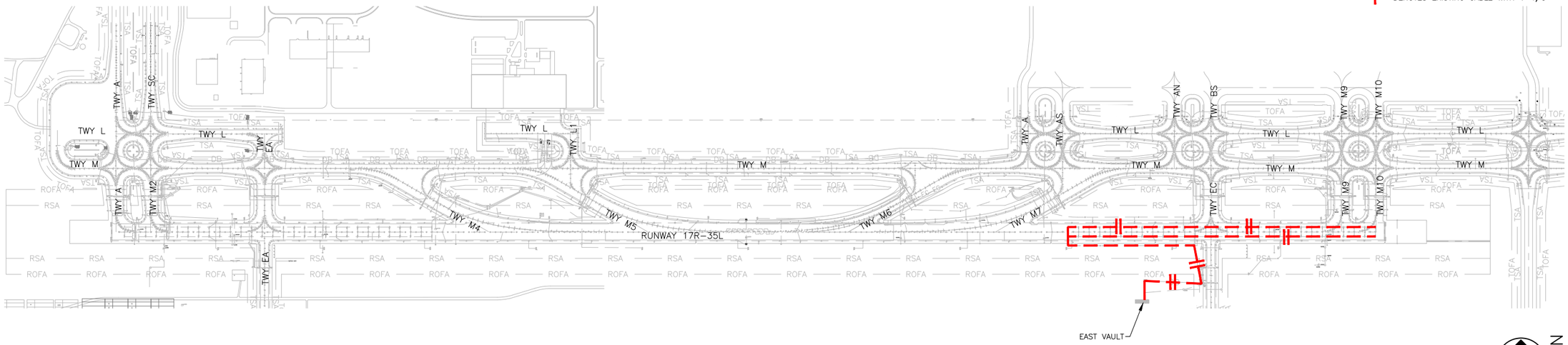
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NOTES:

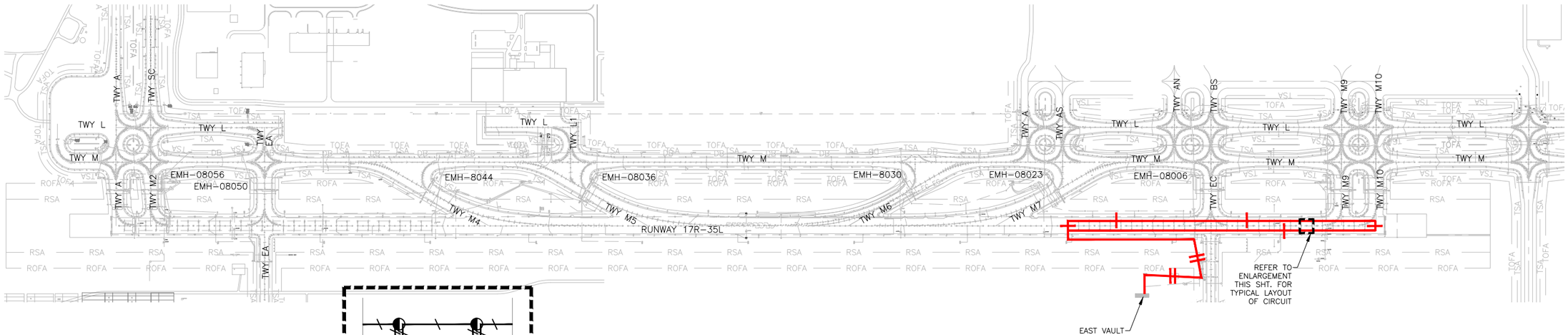
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

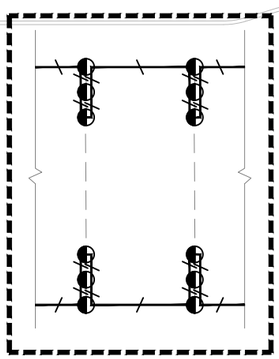
- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C




1 — CIRCUIT 17RTDZ – EXISTING
NOT TO SCALE




2 — CIRCUIT 17RTDZ – NEW
NOT TO SCALE



TDZ LAYOUT (TYP)

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT 17RTD□

SHEET NO. EL805
305 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
DIXON LEA
52246
2/15/19
PROFESSIONAL ENGINEER

Feb 12, 2019 – 5:26pm Kat

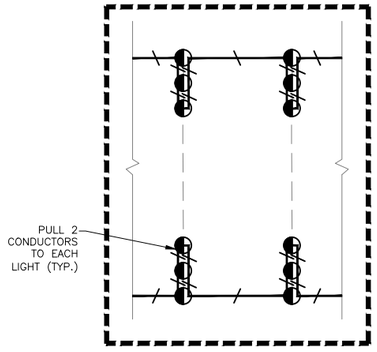
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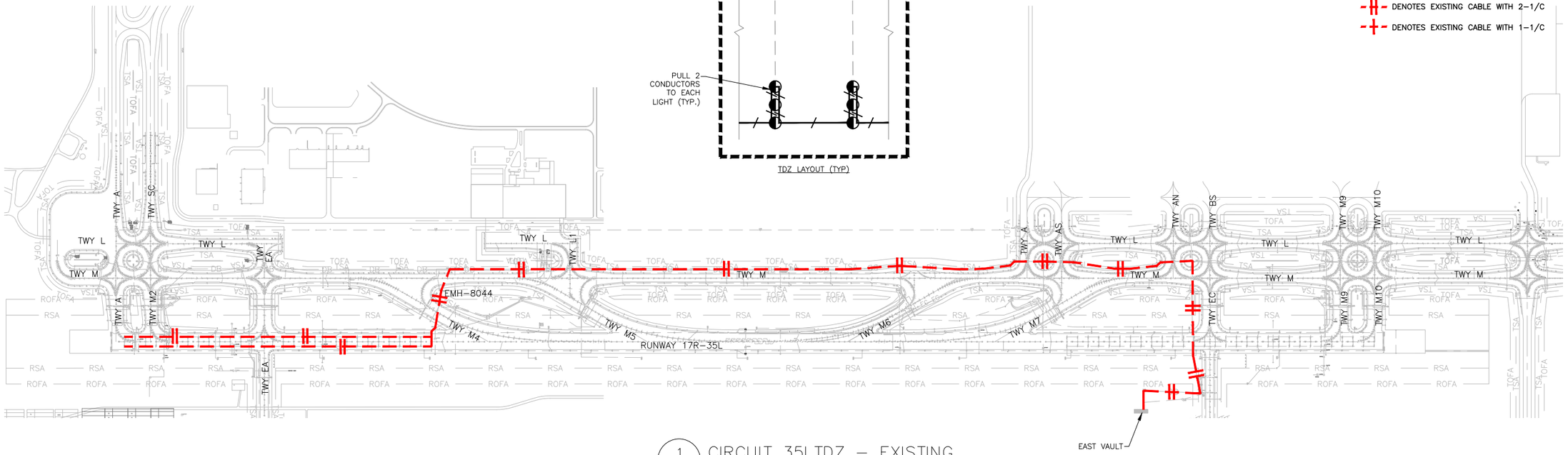
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

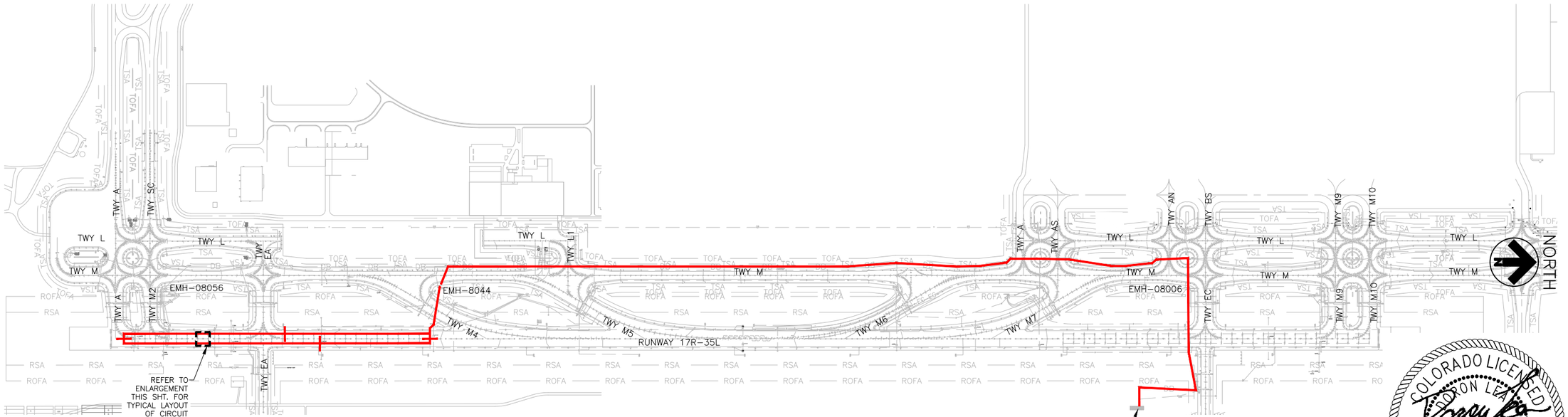
- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C




TDZ LAYOUT (TYP)




1 — CIRCUIT 35LTDZ – EXISTING
NOT TO SCALE




1 — CIRCUIT 35LTDZ – NEW
NOT TO SCALE

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT 35LTD□

SHEET NO. EL806
306 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
TERON LEA
52246
2/15/19
PROFESSIONAL ENGINEER

Feb 12, 2019 – 5:26pm Kat

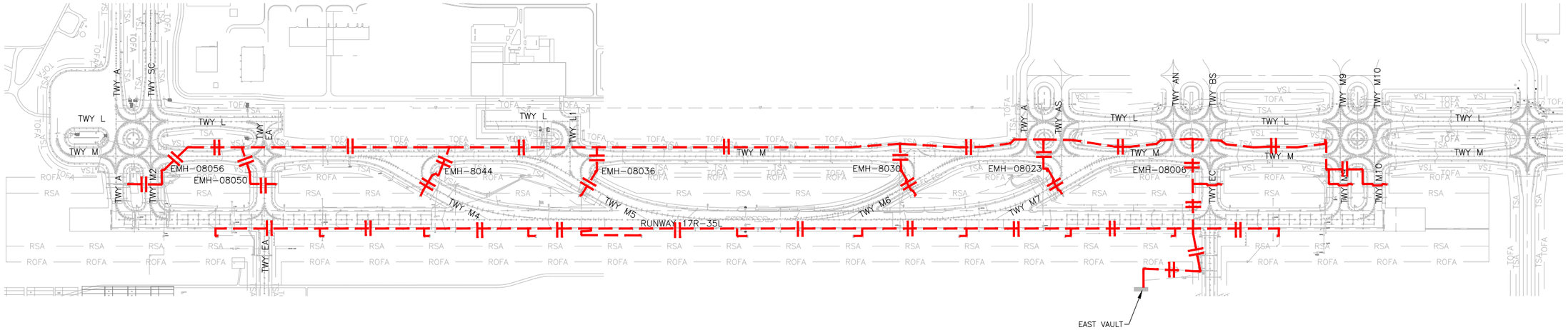
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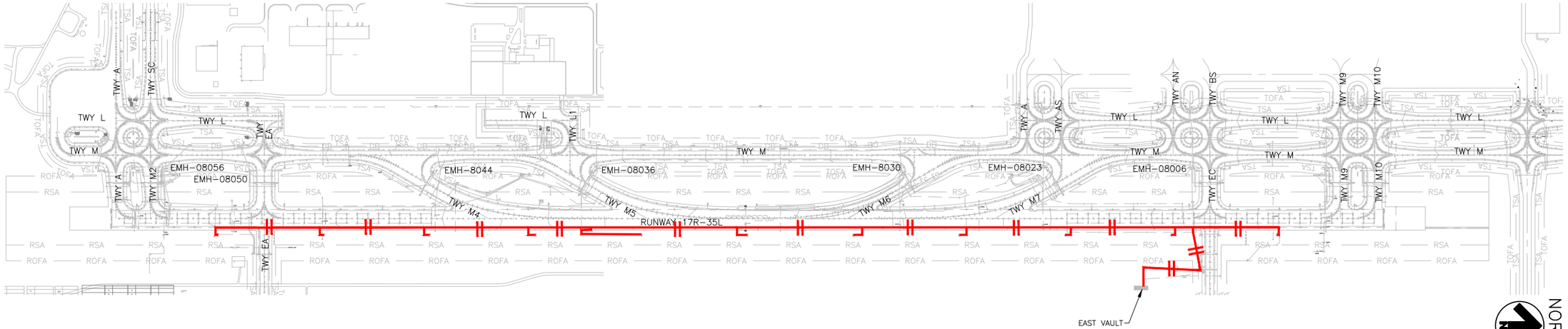
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C




1 — CIRCUIT 17RRDR – EXISTING
NOT TO SCALE




2 — CIRCUIT 17RRDR – NEW
NOT TO SCALE

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP CIRCUIT 17RRDR

SHEET NO. EL807



CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
TYSON LEA
52246
2/15/19
PROFESSIONAL ENGINEER

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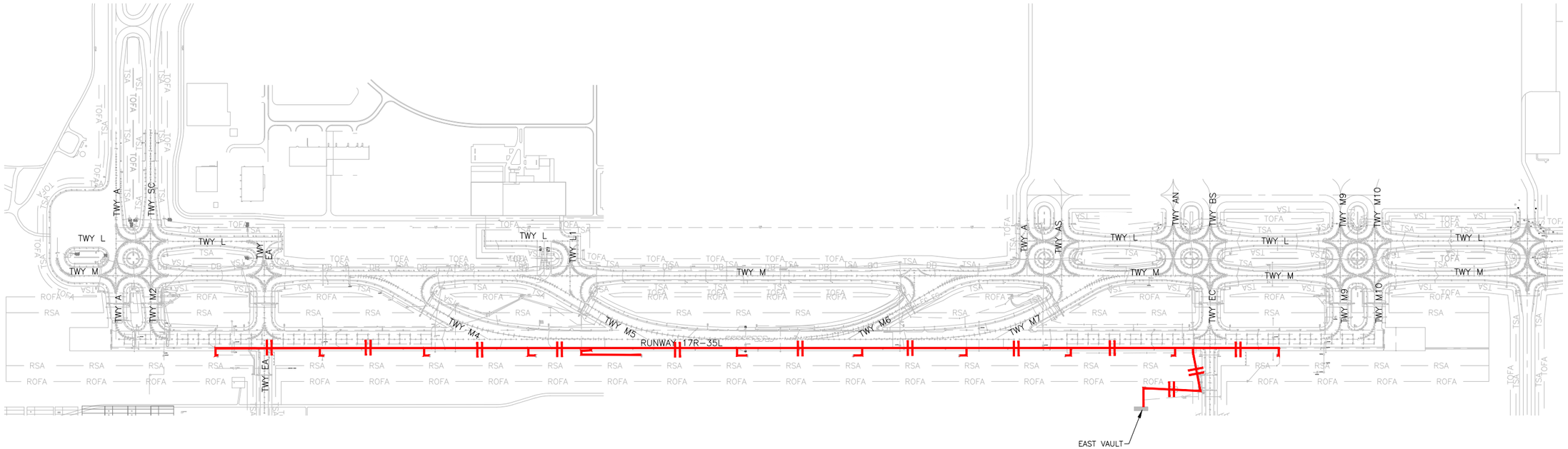
NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

DENOTES NEW CABLE WITH 2-1/C

DENOTES NEW CABLE WITH 1-1/C




1 — CIRCUIT 17RRDR – NEW
NOT TO SCALE

NORTH

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP NEW CIRCUIT 17RRDR

SHEET NO. EL808



CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED — DARON LEAN — 52246 — 2/15/19 — PROFESSIONAL ENGINEER

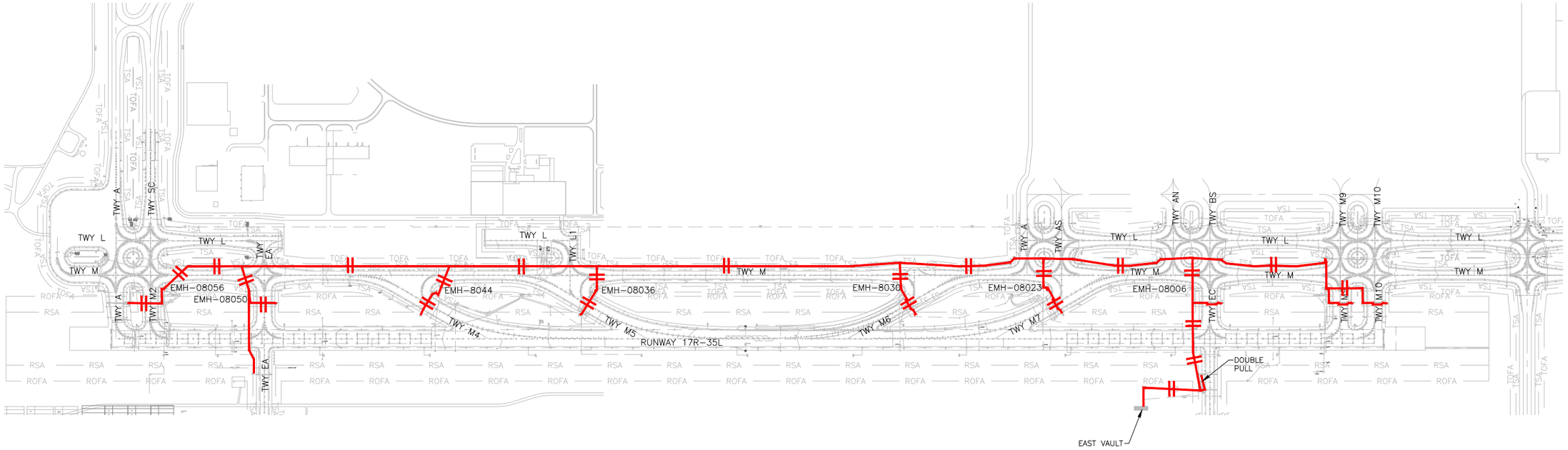
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C




1 / – CIRCUIT 17RMDT – NEW (NEW CIRCUIT)
NOT TO SCALE

NORTH

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP NEW CIRCUIT 17RMDT

SHEET NO. EL809 309 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED DARON LEAR 52246 2/15/19 PROFESSIONAL ENGINEER

Feb 12, 2019 – 5:27pm Kat

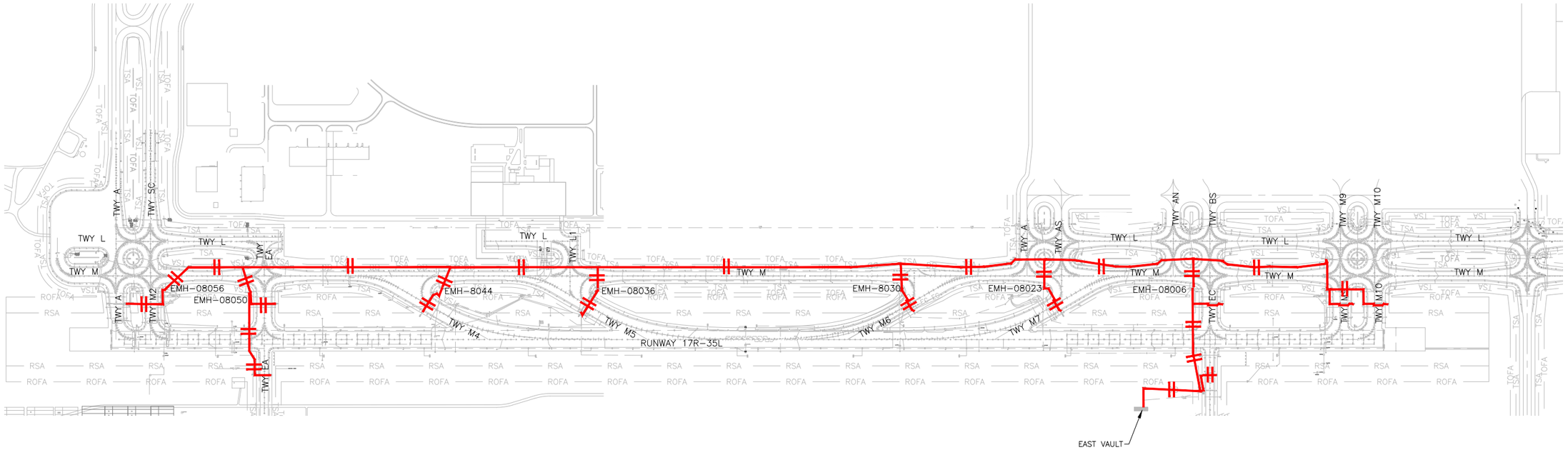
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C




1 — CIRCUIT TMWW – EXISTING & NEW
NOT TO SCALE

NORTH

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TMWW

SHEET NO. EL810
310 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
DIXON LEA
52246
2/15/19
PROFESSIONAL ENGINEER

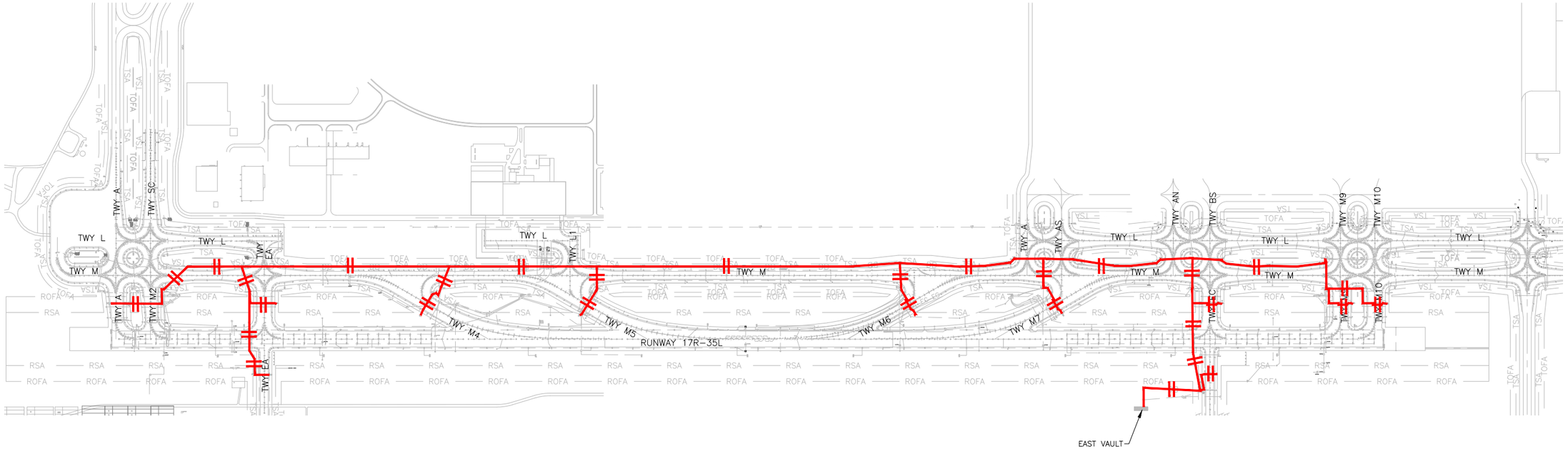
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 — CIRCUIT TMSB – EXISTING & NEW
NOT TO SCALE

NORTH

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TMSB

SHEET NO. EL811
311 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
TERON LEA
52246
2/15/19
PROFESSIONAL ENGINEER

Feb 12, 2019 – 5:27pm Kat

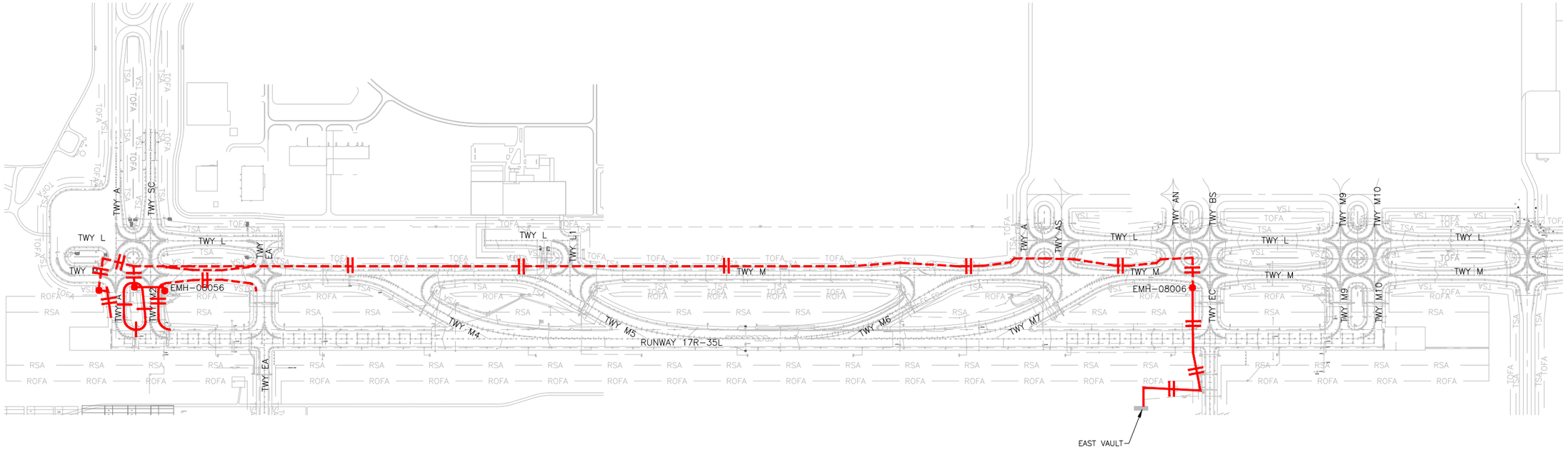
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT TME1 – EXISTING & NEW
NOT TO SCALE

NORTH

COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TME1

SHEET NO. EL812
312 OF 396

CADD FILE NO. _201735882-B1EELD-4298

Feb 12, 2019 - 5:27pm Kat

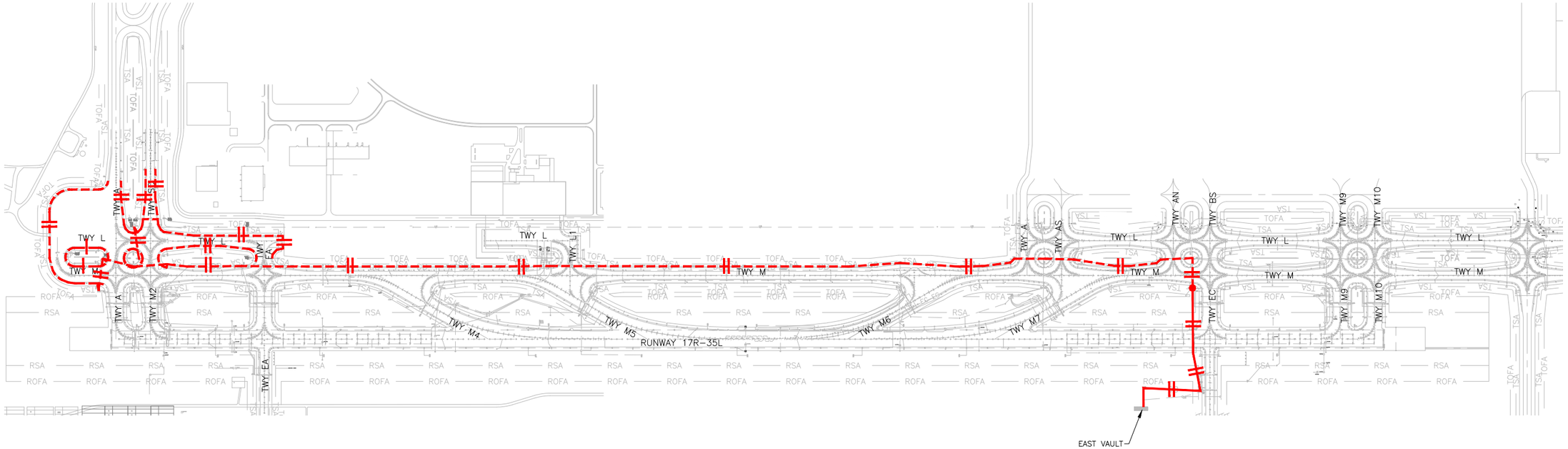
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 – CIRCUIT TAE1 – EXISTING & NEW
NOT TO SCALE

NORTH

COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TAE1

SHEET NO.
EL813
313 OF 396

CADD FILE NO.
_201735882-B1EELD-4298

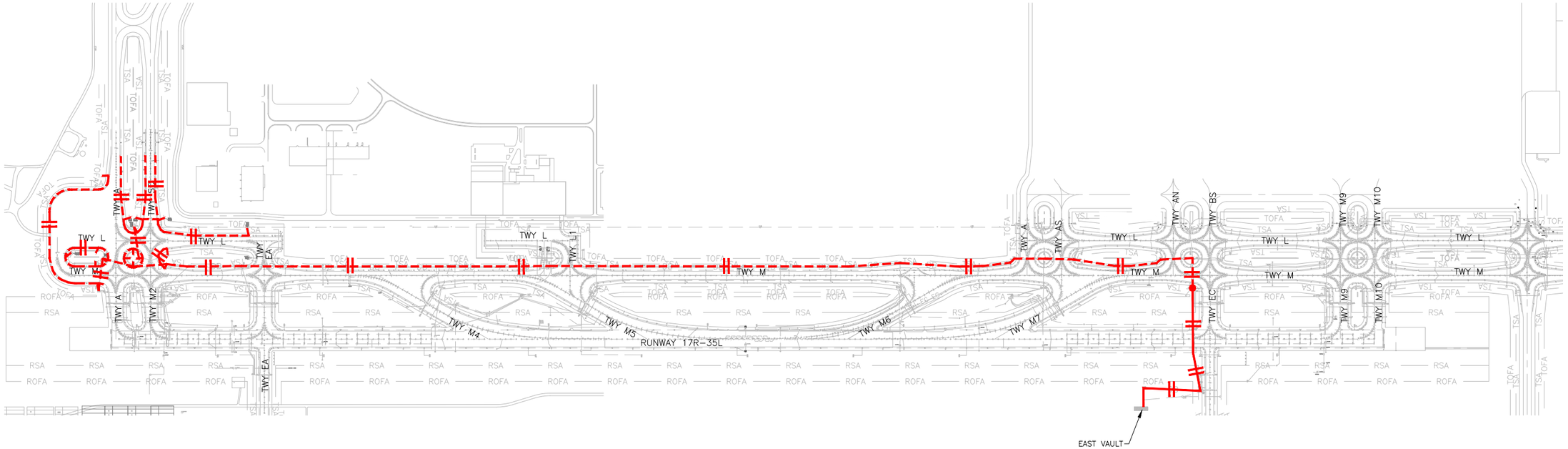
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 – CIRCUIT TAS1 – EXISTING & NEW
NOT TO SCALE

NORTH

COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TAS1

SHEET NO. EL814
314 OF 396

CADD FILE NO. _201735882-B1EELD-4298

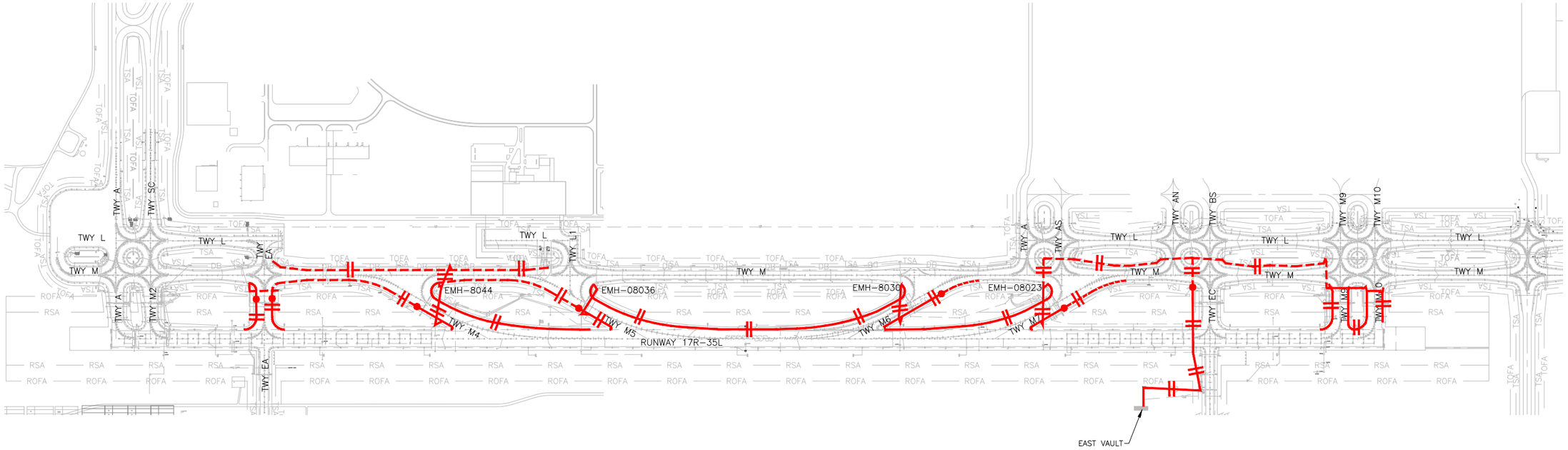
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT TME4 – EXISTING & NEW
NOT TO SCALE

NORTH

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TME4

SHEET NO. EL815
315 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
DORON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

Feb 12, 2019 – 5:28pm Kat

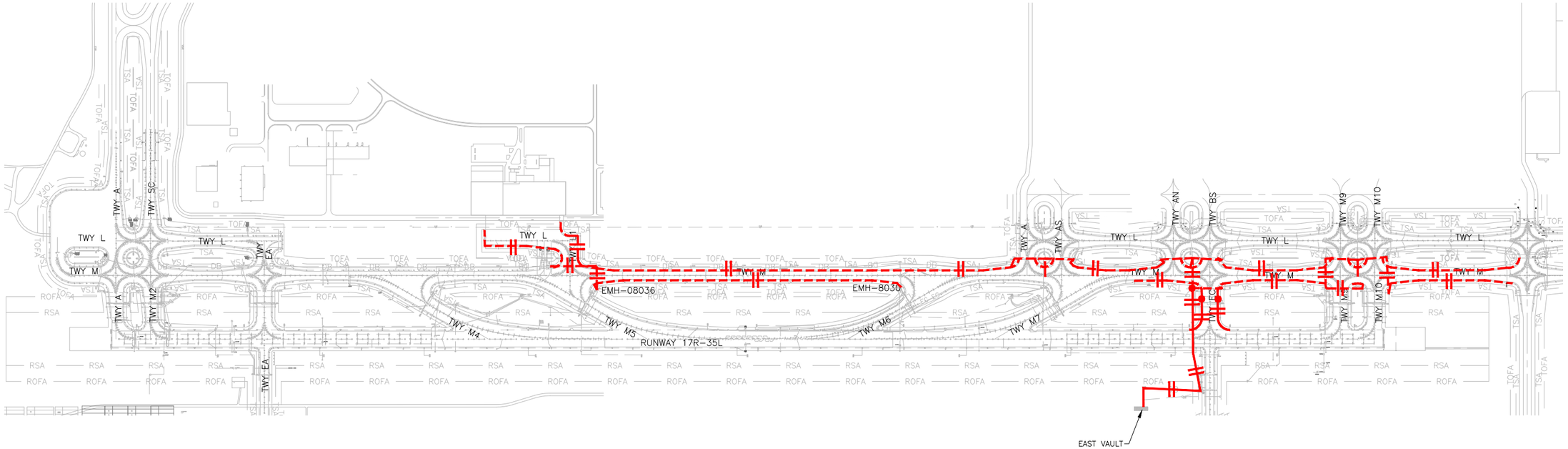
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT TME2 – EXISTING & NEW
NOT TO SCALE

NORTH

COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TME2

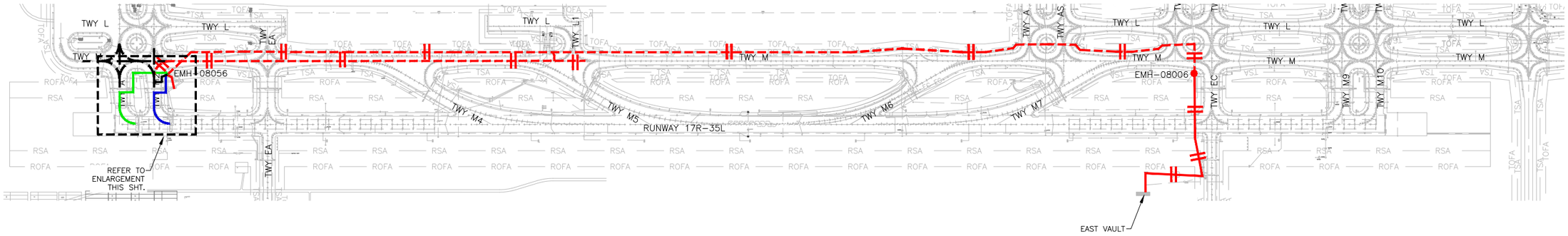
SHEET NO.
EL816
316 OF 396

CADD FILE NO.
_201735882-B1EELD-4298

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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.



NOTES:

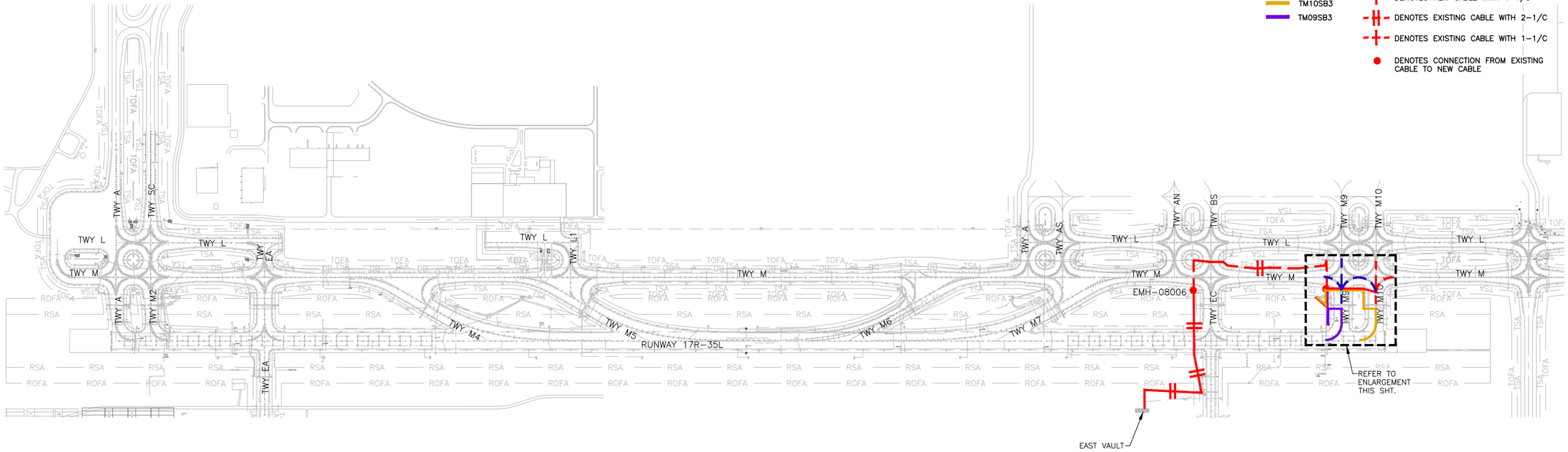
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

LEGEND:

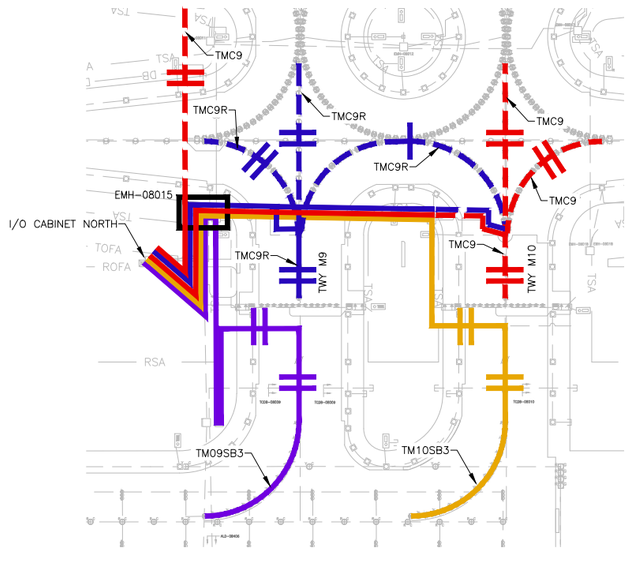
- TMC9R
- TMC9
- TM10SB3
- TM09SB3

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 — CIRCUIT TMC9 (HOMERUN), TMC9R, TM9SB3, TM10SB3 — EXISTING & NEW
NOT TO SCALE




2 — CIRCUIT ENLARGEMENT
NOT TO SCALE

NORTH

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201946271

VOLUME NO.

SHEET TITLE: CIRCUIT MAP CIRCUIT 35LCP (NORTH)

SHEET NO. EL818 318 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED — BRYON LEAN — 52246 — 2/15/19 — PROFESSIONAL ENGINEER

Feb 12, 2019 - 5:29pm Kat

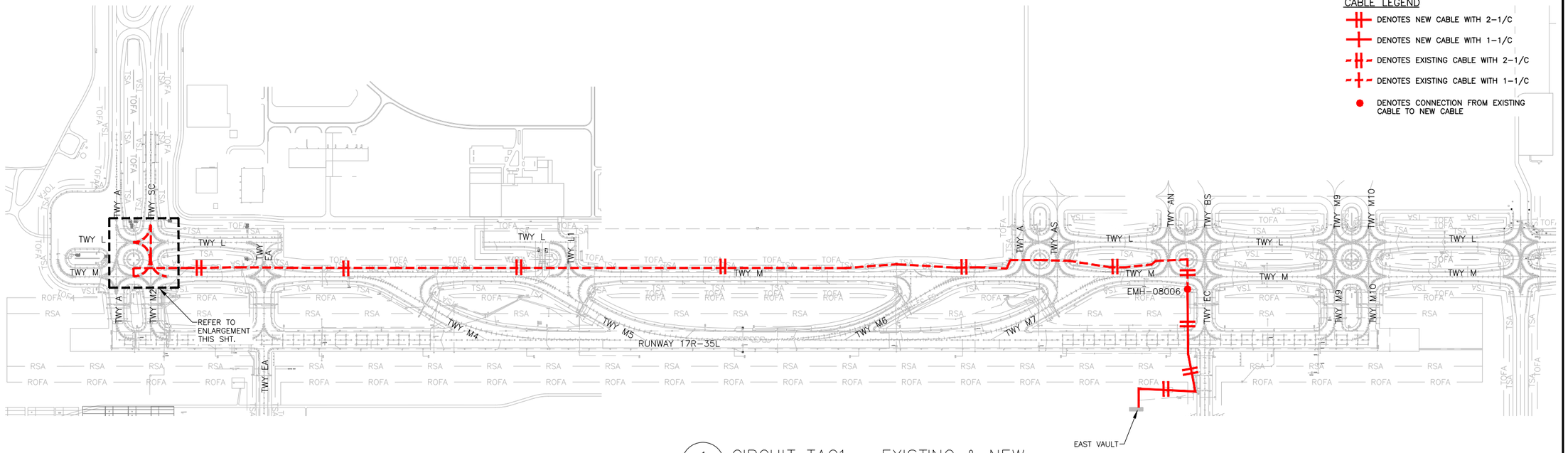
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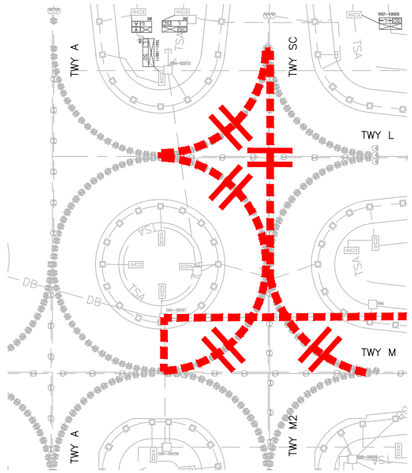
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 — CIRCUIT TAC1 – EXISTING & NEW
NOT TO SCALE




2 — CIRCUIT ENLARGEMENT
NOT TO SCALE

NORTH

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TAC1

SHEET NO. EL819
319 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
DARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

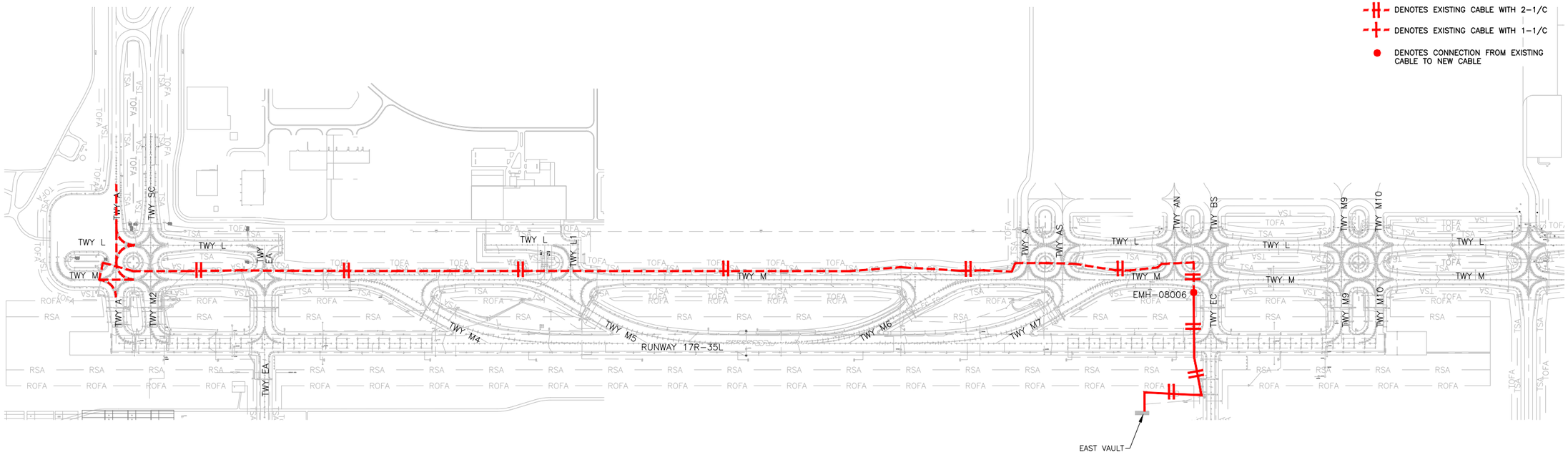
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NOTES:

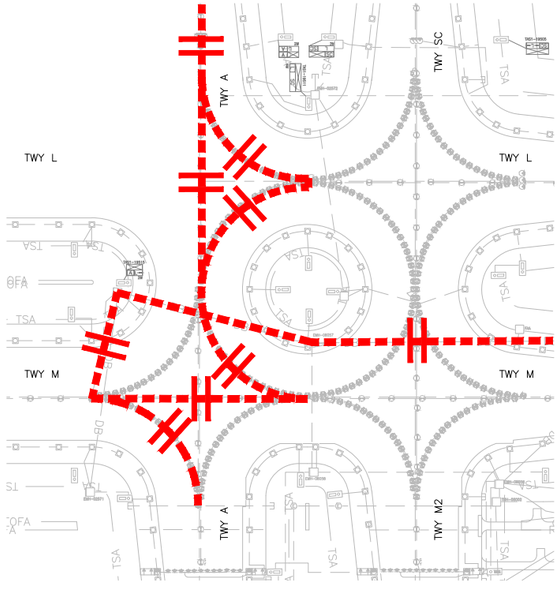
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 — CIRCUIT TAC2 – EXISTING & NEW
NOT TO SCALE




2 — CIRCUIT ENLARGEMENT
NOT TO SCALE

NORTH

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TAC2

SHEET NO. EL820
320 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
TERRON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

Feb 12, 2019 – 5:29pm Kat

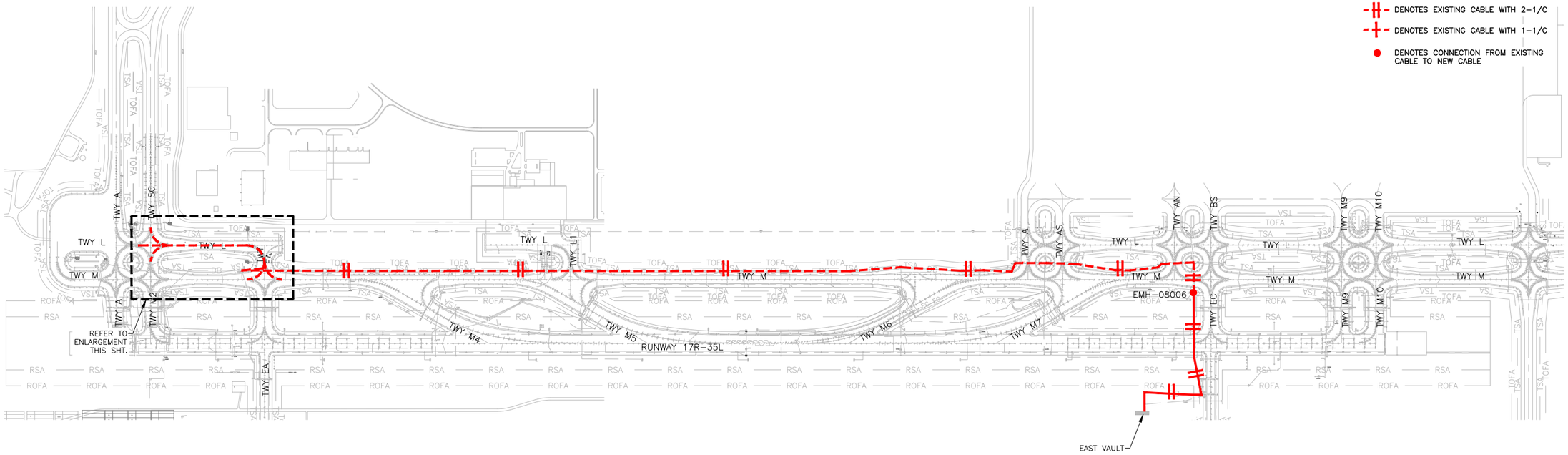
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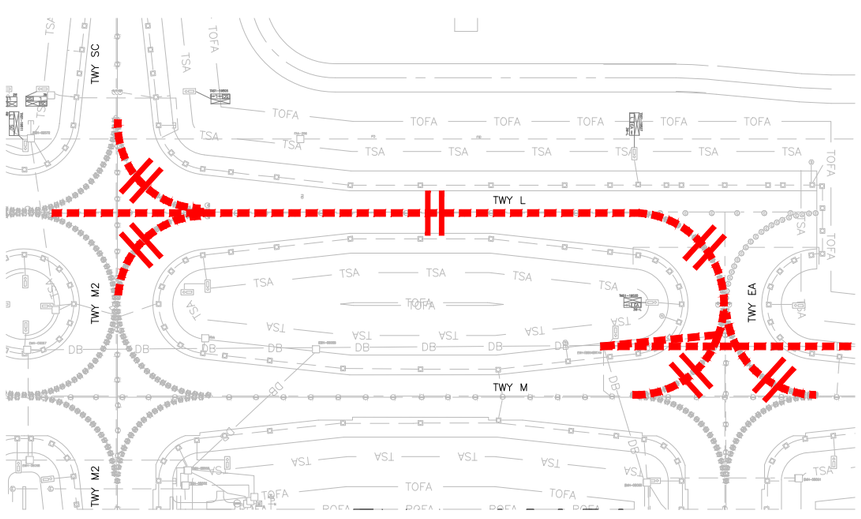
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 CIRCUIT TASC1 – EXISTING & NEW
NOT TO SCALE




2 CIRCUIT ENLARGMENT
NOT TO SCALE

NORTH

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201946271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TASC1

SHEET NO. EL821
321 OF 396

CADD FILE NO. _201735882-B1EELD-4298

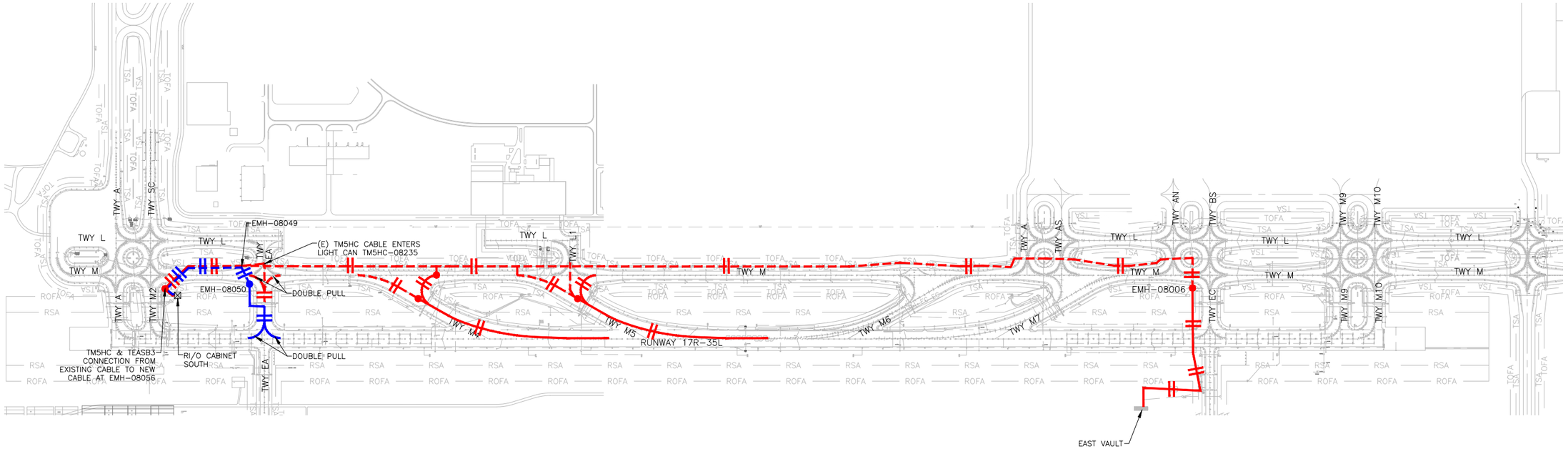
COLORADO LICENSED
GORON LEA
52246
2/15/19
PROFESSIONAL ENGINEER

Feb 12, 2019 – 5:29pm Kat

D:\Dropbox (lean photometrics)\active projects\15718\01a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_20173582-B1EELD-4298.dwg

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.




1 — CIRCUIT TM5HC & TEASB3 – EXISTING & NEW
NOT TO SCALE

CABLE LEGEND

- DENOTES NEW TM5HC CABLE WITH 2-1/C
- DENOTES NEW TM5HC CABLE WITH 1-1/C
- DENOTES EXISTING TM5HC CABLE WITH 2-1/C
- DENOTES EXISTING TM5HC CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING TM5HC CABLE TO NEW CABLE
- DENOTES NEW TEASB3 CABLE WITH 2-1/C
- DENOTES NEW TEASB3 CABLE WITH 1-1/C
- DENOTES EXISTING TEASB3 CABLE WITH 2-1/C
- DENOTES EXISTING TEASB3 CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING TEASB3 CABLE TO NEW CABLE

NORTH

COLORADO LICENSED
GORON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201946271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TM5HC

SHEET NO. EL822
322 OF 396

CADD FILE NO. _201735882-B1EELD-4298

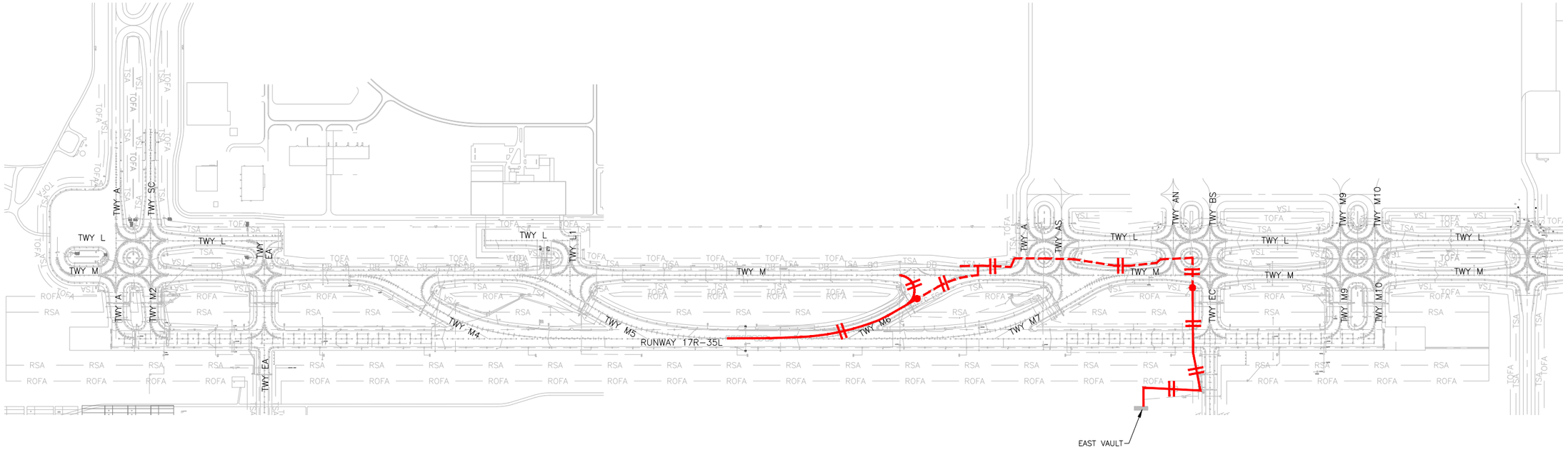
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT TM6HC – EXISTING & NEW
NOT TO SCALE

NORTH

COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TM6HC

SHEET NO.
EL823
323 OF 396

CADD FILE NO.
_201735882-B1EELD-4298

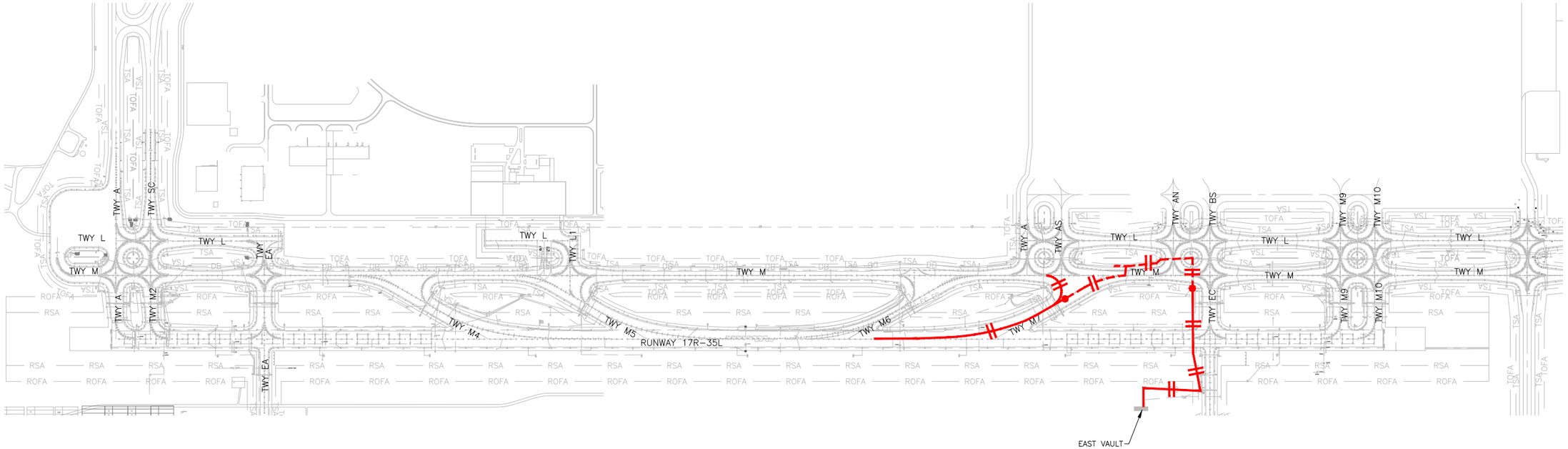
Feb 12, 2019 – 5:30pm Kat
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT TM7HC – EXISTING & NEW
NOT TO SCALE

NORTH

COLORADO LICENSED
DARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TM7HC

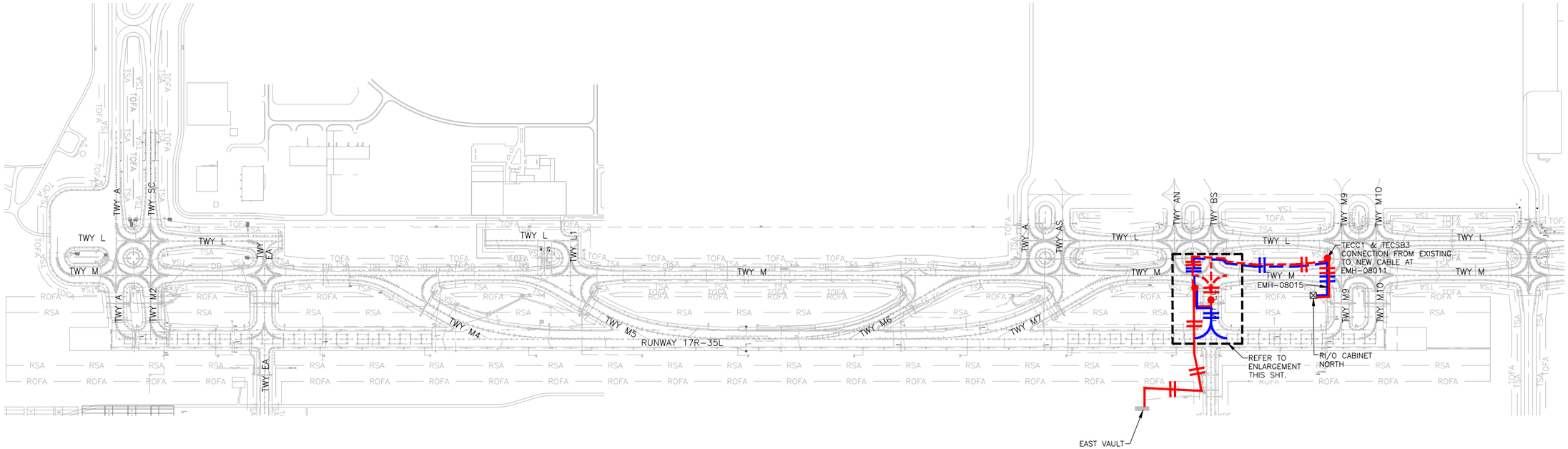
SHEET NO. EL824
324 OF 396

CADD FILE NO. _201735882-B1EELD-4298

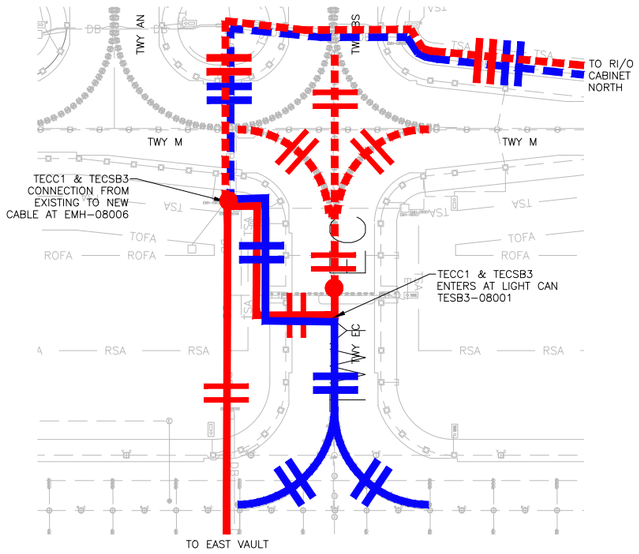
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.




1 — CIRCUIT TECC1 (HOMERUN), & TECSB3 – EXISTING & NEW
NOT TO SCALE




2 — CIRCUIT ENLARGEMENT
NOT TO SCALE

CABLE LEGEND

- DENOTES NEW TECC1 CABLE WITH 2-1/C
- DENOTES NEW TECC1 CABLE WITH 1-1/C
- DENOTES EXISTING TECC1 CABLE WITH 2-1/C
- DENOTES EXISTING TECC1 CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING TECC1 CABLE TO NEW CABLE
- DENOTES NEW TECSB3 CABLE WITH 2-1/C
- DENOTES NEW TECSB3 CABLE WITH 1-1/C
- DENOTES EXISTING TECSB3 CABLE WITH 2-1/C
- DENOTES EXISTING TECSB3 CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING TECSB3 CABLE TO NEW CABLE

NORTH

COLORADO LICENSED
DORON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: CIRCUIT MAP CIRCUIT TECC1 & TECSB3
SHEET NO. EL825 325 OF 396
CADD FILE NO. _201735882-B1EELD-4298

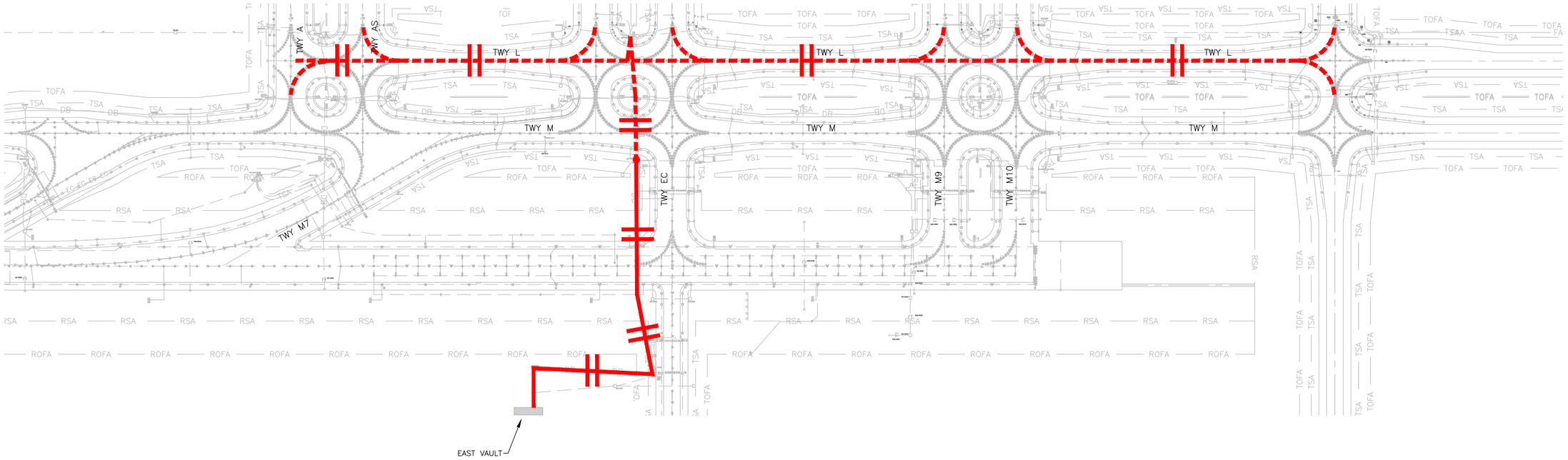
Feb 12, 2019 – 5:39pm Kat
D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\sheets_201735882-B1EELD-4298.dwg

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT TLC1 – EXISTING & NEW
NOT TO SCALE

NORTH

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TLC1

SHEET NO. EL826
326 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
AARON LEA
52246
2/15/19
PROFESSIONAL ENGINEER

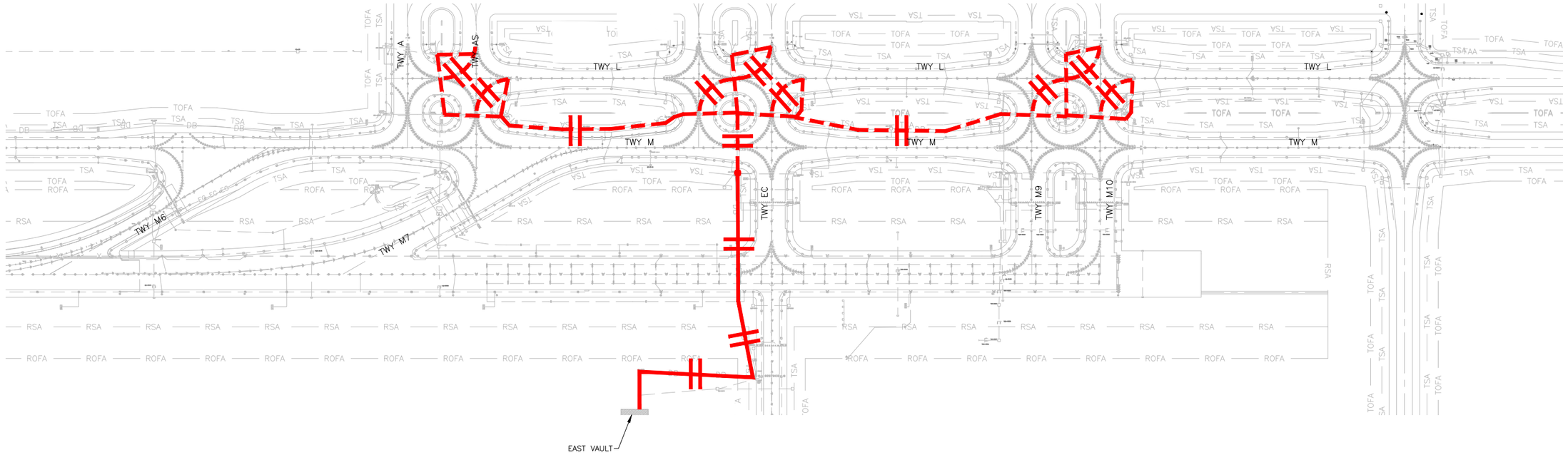
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT TLC2 – EXISTING & NEW
NOT TO SCALE

NORTH

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TLC2

SHEET NO. EL827
327 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
DORON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

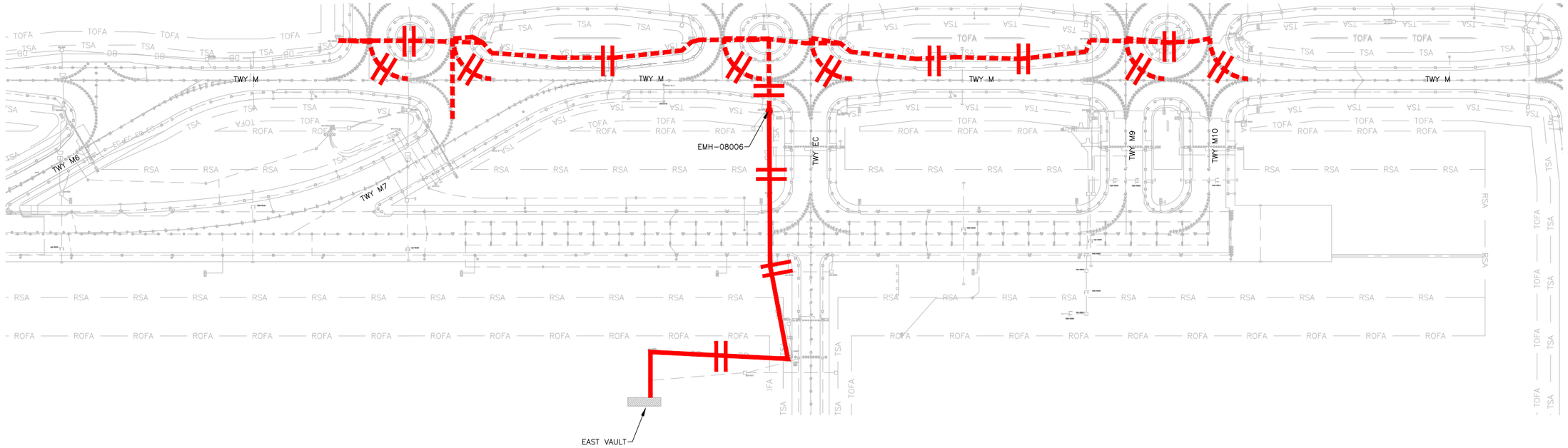
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT TLC4 – EXISTING & NEW
NOT TO SCALE

NORTH

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TLC4

SHEET NO. EL828
328 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
TARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

Feb 12, 2019 – 5:31pm Kat

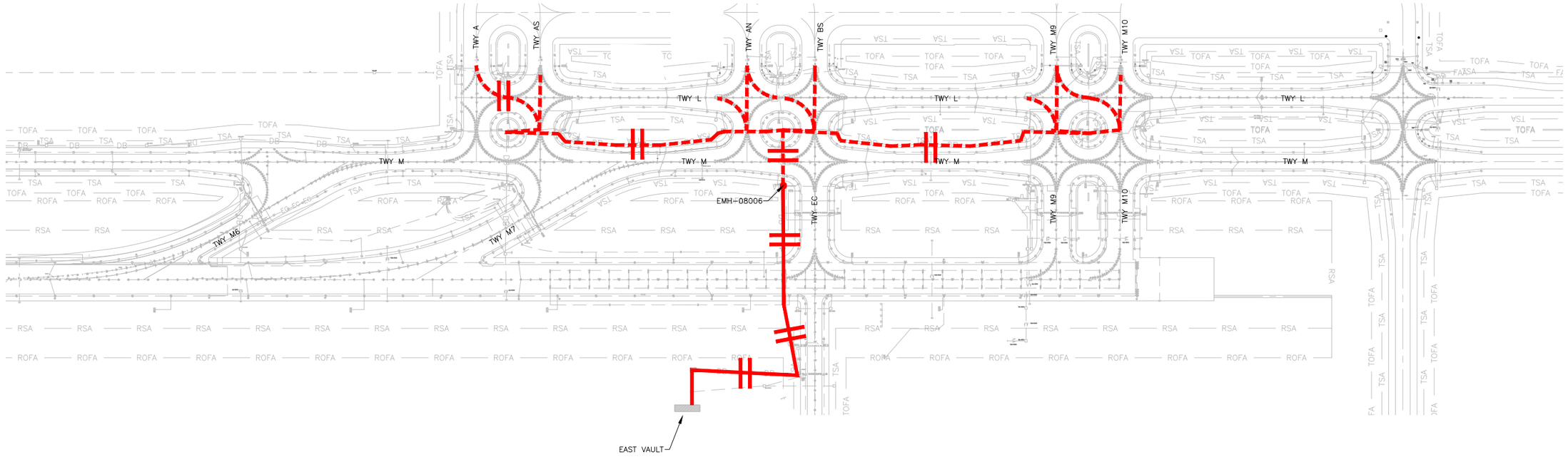
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT TLC5 – EXISTING & NEW
NOT TO SCALE

NORTH

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TLC5

SHEET NO. EL829
329 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
DARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

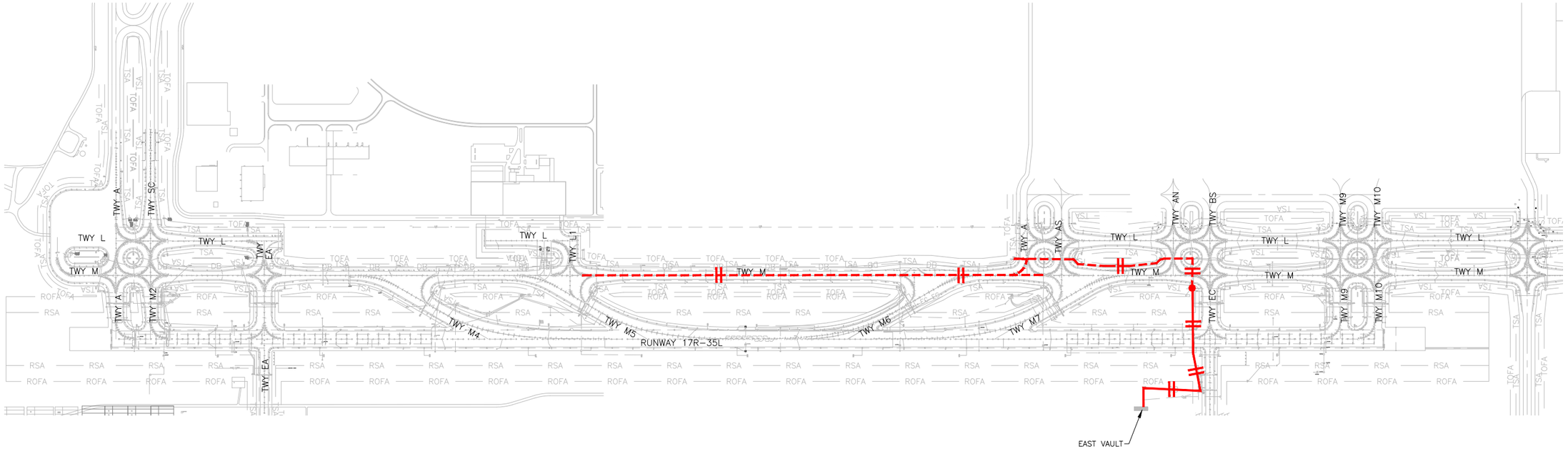
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT TMC2 – EXISTING & NEW
NOT TO SCALE

NORTH

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TMC2

SHEET NO.
EL830
330 OF 396

CADD FILE NO.
_201735882-B1EELD-4298

COLORADO LICENSED
DARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

Feb 12, 2019 – 5:31pm Kat

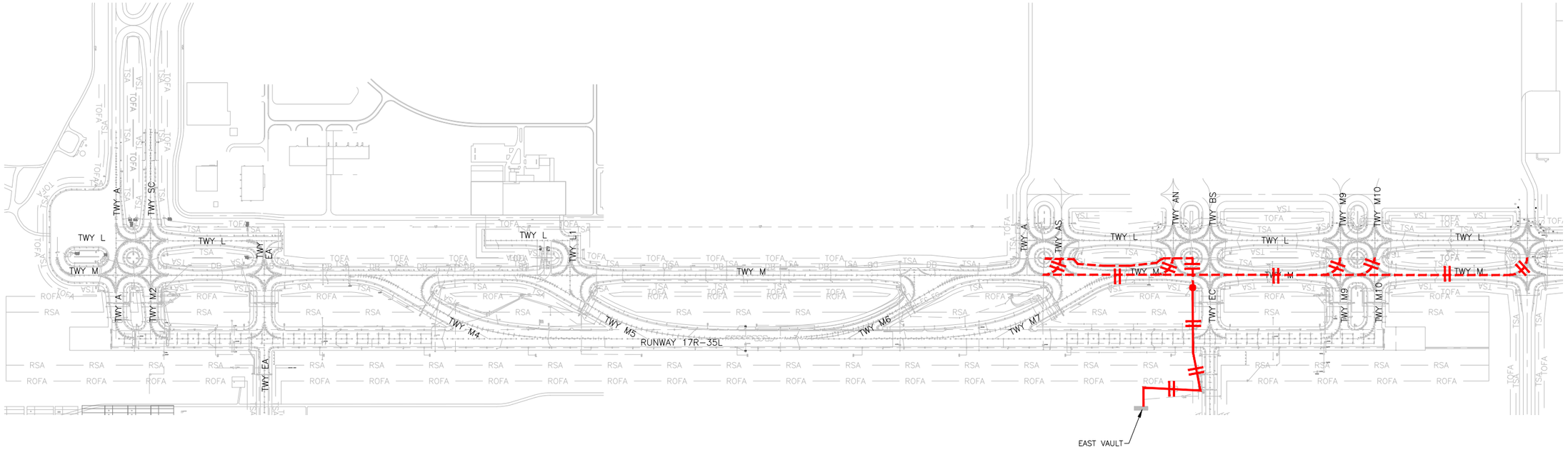
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT TMC3 – EXISTING & NEW
NOT TO SCALE

NORTH

COLORADO LICENSED
BRYON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TMC3

SHEET NO.
EL831
331 OF 396

CADD FILE NO.
_201735882-B1EELD-4298

Feb 12, 2019 – 5:31pm Kat

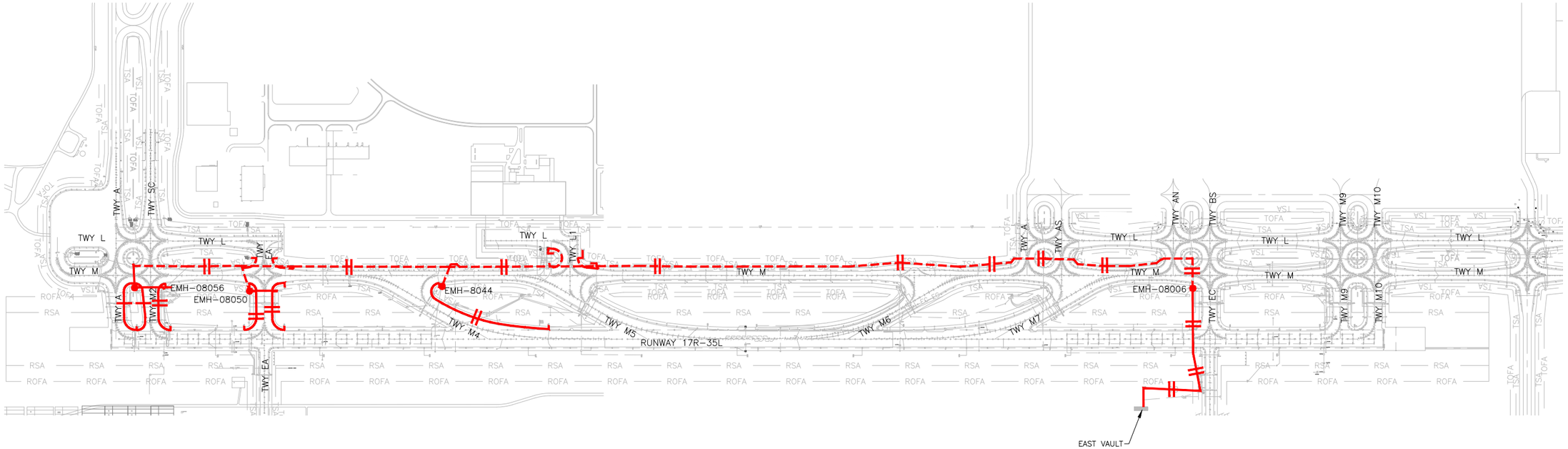
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT TMS1 – EXISTING & NEW
NOT TO SCALE

NORTH

COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TMS1

SHEET NO. EL832


CADD FILE NO. _201735882-B1EELD-4298

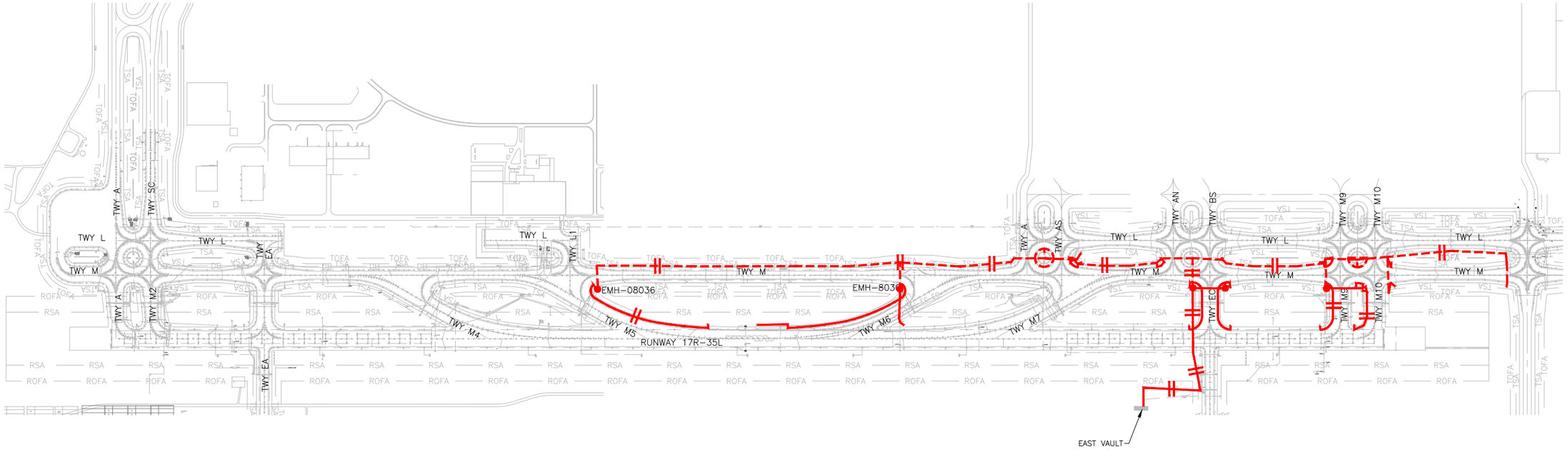
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT TMS2 – EXISTING & NEW
NOT TO SCALE

NORTH

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TMS2

SHEET NO. EL833
333 OF 396

CADD FILE NO. _201735882-B1EELD-4298

COLORADO LICENSED
AARON LEAF
52246
2/15/19
PROFESSIONAL ENGINEER

Feb 12, 2019 – 5:31pm Kat

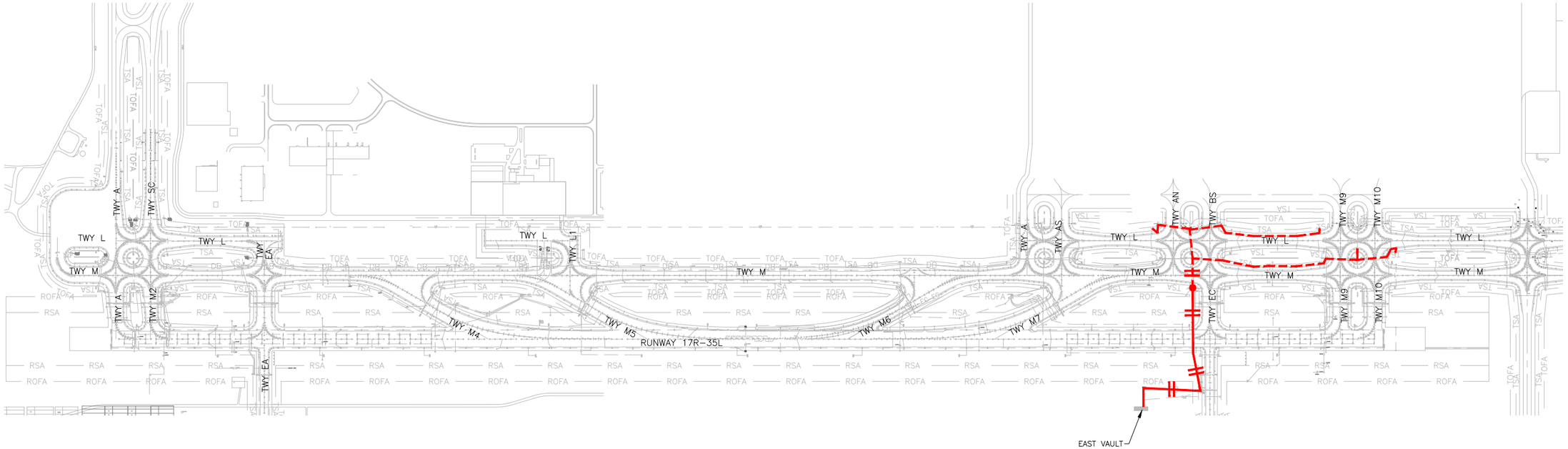
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 — CIRCUIT TLKS1 – EXISTING & NEW
NOT TO SCALE

NORTH

COLORADO LICENSED
DARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TLKS1

SHEET NO.
EL834
334 OF 396

CADD FILE NO.
_201735882-B1EELD-4298

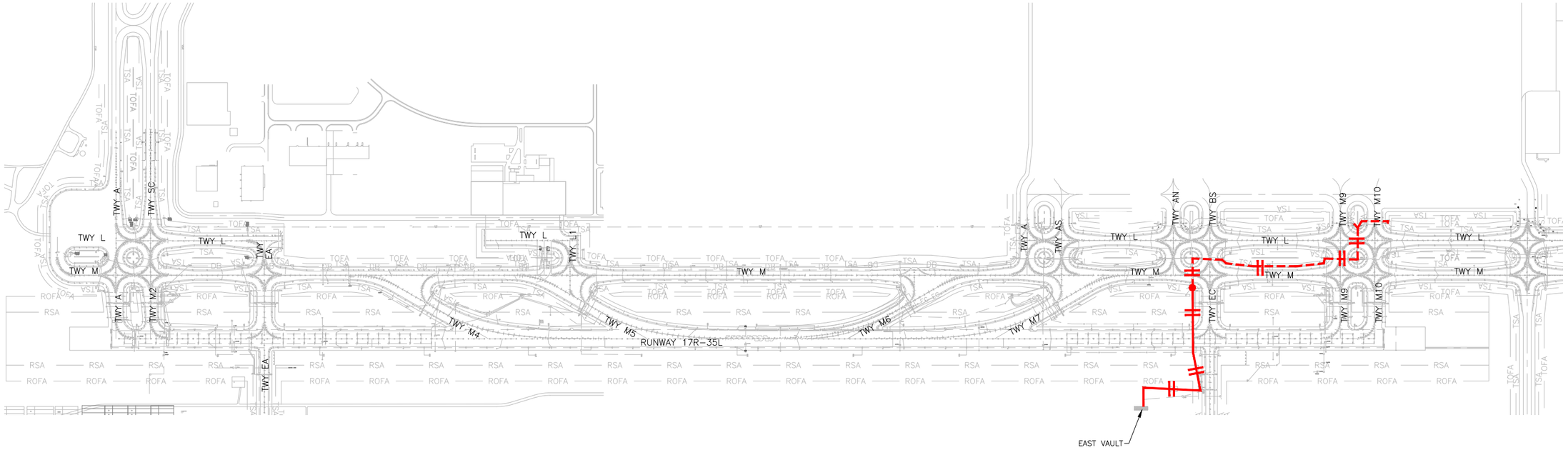
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 – CIRCUIT TLS1 – EXISTING & NEW
NOT TO SCALE

NORTH

COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TLS1

SHEET NO. EL835
335 OF 396

CADD FILE NO. _201735882-B1EELD-4298

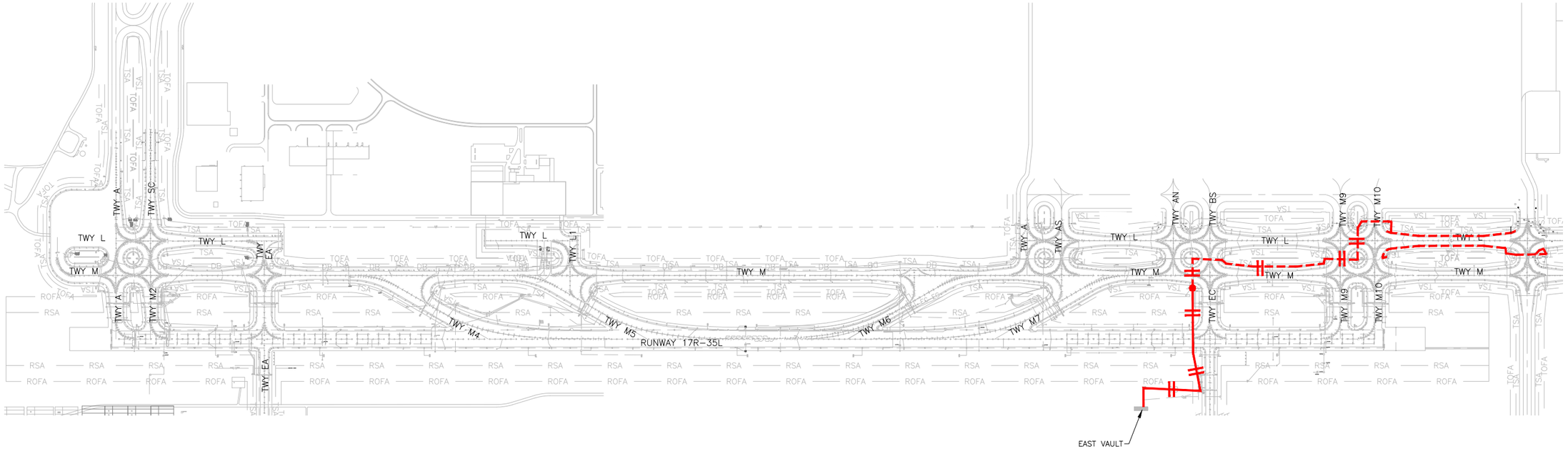
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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

- DENOTES NEW CABLE WITH 2-1/C
- DENOTES NEW CABLE WITH 1-1/C
- DENOTES EXISTING CABLE WITH 2-1/C
- DENOTES EXISTING CABLE WITH 1-1/C
- DENOTES CONNECTION FROM EXISTING CABLE TO NEW CABLE




1 / – CIRCUIT TLE1 – EXISTING & NEW
NOT TO SCALE

NORTH

COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT TLE1

SHEET NO.
EL836
336 OF 396

CADD FILE NO.
_201735882-B1EELD-4298

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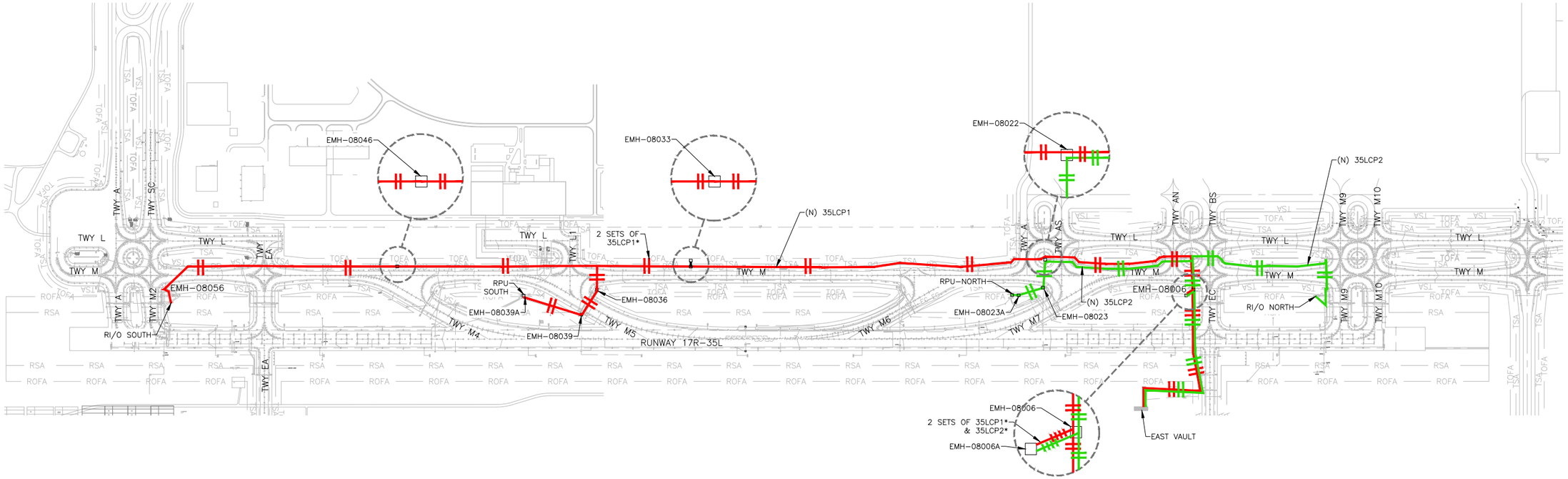
NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

CABLE LEGEND

DENOTES NEW 35LCP1 WITH 2-1/C

DENOTES NEW 35LCP2 WITH 2-1/C




1 / – CIRCUIT 35LCP1 & 35LCP2 CIRCUITS – NEW
NOT TO SCALE

NORTH

COLORADO LICENSED
TERON LEA
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

CIRCUIT MAP
CIRCUIT 35LCP1
& 35LCP2

SHEET NO. EL837
337 OF 396

CADD FILE NO. _201735882-B1EELD-4298

Feb 12, 2019 - 5:32pm Kat

D:\dropbox (leon photometrics)\active projects\1157180\a rah den 17-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELD-4298.dwg

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| 17RE-08002 | EL108 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08003 | EL108 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (N) | QUARTZ LIGHT |
| 17RE-08004 | EL108 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08005 | EL108 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (N) | QUARTZ LIGHT |
| 17RE-08006 | EL108 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08007 | EL109 | L-850C | BIDIREC. | WHITE/WHITE | L-868B (N) | QUARTZ LIGHT |
| 17RE-08008 | EL109 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08009 | EL109 | L-850C | BIDIREC. | WHITE/WHITE | L-868B (N) | QUARTZ LIGHT |
| 17RE-08010 | EL109 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08011 | EL109 | L-850C | BIDIREC. | WHITE/WHITE | L-868B (N) | QUARTZ LIGHT |
| 17RE-08012 | EL109 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08013 | EL109 | L-850C | BIDIREC. | WHITE/WHITE | L-868B (N) | QUARTZ LIGHT |
| 17RE-08014 | EL109 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08015 | EL109 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08016 | EL109 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08017 | EL110 | L-850C | BIDIREC. | WHITE/WHITE | L-868B (N) | QUARTZ LIGHT |
| 17RE-08018 | EL110 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08019 | EL110 | L-850C | BIDIREC. | WHITE/WHITE | L-868B (N) | QUARTZ LIGHT |
| 17RE-08020 | EL110 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08021 | EL110 | L-850C | BIDIREC. | WHITE/WHITE | L-868B (E) | QUARTZ LIGHT |
| 17RE-08022 | EL110 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08023 | EL110 | L-850C | BIDIREC. | WHITE/WHITE | L-868B (E) | QUARTZ LIGHT |
| 17RE-08024 | EL110 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08025 | EL110 | L-850C | BIDIREC. | WHITE/WHITE | L-868B (E) | QUARTZ LIGHT |
| 17RE-08026 | EL110 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08027 | EL111 | L-850C | BIDIREC. | WHITE/WHITE | L-868B (E) | QUARTZ LIGHT |
| 17RE-08028 | EL111 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08029 | EL111 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08030 | EL111 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08031 | EL111 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08032 | EL111 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08033 | EL111 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08034 | EL111 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08035 | EL111 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08036 | EL111 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08037 | EL112 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08038 | EL112 | L-862 | BIDIREC. | WHITE/WHITE | L-867B (E) | QUARTZ LIGHT |
| 17RE-08039 | EL112 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08040 | EL112 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08041 | EL112 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08042 | EL112 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08043 | EL112 | L-850C | BIDIREC. | WHITE/YELLOW | L-868B (N) | QUARTZ LIGHT |
| 17RE-08044 | EL112 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08045 | EL112 | L-850C | BIDIREC. | WHITE/YELLOW | L-868B (N) | QUARTZ LIGHT |
| 17RE-08046 | EL112 | L-850C | BIDIREC. | WHITE/YELLOW | L-868B (N) | QUARTZ LIGHT |
| 17RE-08047 | EL113 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08048 | EL113 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08049 | EL113 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08050 | EL113 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08051 | EL113 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08052 | EL113 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08053 | EL113 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08054 | EL113 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08055 | EL113 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08056 | EL113 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08057 | EL114 | L-850C | BIDIREC. | WHITE/YELLOW | L-868B (N) | QUARTZ LIGHT |
| 17RE-08058 | EL114 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08059 | EL114 | L-850C | BIDIREC. | WHITE/YELLOW | L-868B (N) | QUARTZ LIGHT |
| 17RE-08060 | EL114 | L-862 | BIDIREC. | WHITE/YELLOW | L-867B (E) | QUARTZ LIGHT |
| 17RE-08061 | EL114 | L-862E | BIDIREC. | RED/GREEN | L-867B (E) | QUARTZ LIGHT |
| 17RE-08062 | EL114 | L-862E | BIDIREC. | RED/GREEN | L-867B (E) | QUARTZ LIGHT |
| 17RE-08063 | EL114 | L-862E | BIDIREC. | RED/GREEN | L-867B (E) | QUARTZ LIGHT |
| 17RE-08064 | EL114 | L-862E | BIDIREC. | RED/GREEN | L-867B (E) | QUARTZ LIGHT |
| 17RE-08065 | EL114 | L-862E | BIDIREC. | RED/GREEN | L-867B (E) | QUARTZ LIGHT |
| 17RE-08066 | EL114 | L-862E | BIDIREC. | RED/GREEN | L-867B (E) | QUARTZ LIGHT |
| 17RE-08067 | EL114 | L-862E | BIDIREC. | RED/GREEN | L-867B (E) | QUARTZ LIGHT |
| 17RE-08068 | EL114 | L-862E | BIDIREC. | RED/GREEN | L-867B (E) | QUARTZ LIGHT |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

BIDIREC. – BIDIRECTIONAL
OMNI – OMNIDIRECTIONAL
UNIDIREC. – UNIDIRECTIONAL
EXT – EXTENSION
(L) – LED (UNLESS OTHERWISE NOTED)
MFG. – MANUFACTURER
(RR) – REMOVE AND REINSTALL
(E) – EXISTING TO BE REUSED
(N) – NEW
N/A – NOT APPLICABLE

COLORADO LICENSED
TERON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE

FIXTURE SCHEDULE CIRCUIT 17RE

SHEET NO. EL851
338 OF 396

CADD FILE NO. _201735882-B1EELD-6334

Feb 12, 2019 - 5:32pm Kat
D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELD-6334.dwg

| FIXTURE ID | REF. DRAWIN | FAA DESI NATION | FIXTURE TY E | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| 35LE-08001 | EL102 | L-862E | BIDIREC. | REEN RED | L-867B (E) | QUART LI HT |
| 35LE-08002 | EL102 | L-862E | BIDIREC. | REEN RED | L-867B (E) | QUART LI HT |
| 35LE-08003 | EL102 | L-862E | BIDIREC. | REEN RED | L-867B (E) | QUART LI HT |
| 35LE-08004 | EL102 | L-862E | BIDIREC. | REEN RED | L-867B (E) | QUART LI HT |
| 35LE-08005 | EL102 | L-862E | BIDIREC. | REEN RED | L-867B (E) | QUART LI HT |
| 35LE-08006 | EL102 | L-862E | BIDIREC. | REEN RED | L-867B (E) | QUART LI HT |
| 35LE-08007 | EL102 | L-862E | BIDIREC. | REEN RED | L-867B (E) | QUART LI HT |
| 35LE-08008 | EL102 | L-862E | BIDIREC. | REEN RED | L-867B (E) | QUART LI HT |
| 35LE-08009 | EL102 | L-850C | BIDIREC. | WHITE YELLOW | L-868B (E) | QUART LI HT |
| 35LE-08010 | EL102 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08011 | EL102 | L-850C | BIDIREC. | WHITE YELLOW | L-868B (N) | QUART LI HT |
| 35LE-08012 | EL102 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08013 | EL102 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08014 | EL102 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08015 | EL102 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08016 | EL102 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08017 | EL103 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08018 | EL103 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08019 | EL103 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08020 | EL103 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08021 | EL103 | L-850C | BIDIREC. | WHITE YELLOW | L-868B (N) | QUART LI HT |
| 35LE-08022 | EL103 | L-850C | BIDIREC. | WHITE YELLOW | L-868B (N) | QUART LI HT |
| 35LE-08023 | EL103 | L-850C | BIDIREC. | WHITE YELLOW | L-868B (N) | QUART LI HT |
| 35LE-08024 | EL103 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08025 | EL103 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08026 | EL103 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08027 | EL104 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08028 | EL104 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08029 | EL104 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08030 | EL104 | L-862 | BIDIREC. | WHITE YELLOW | L-867B (E) | QUART LI HT |
| 35LE-08031 | EL104 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08032 | EL104 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08033 | EL104 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08034 | EL104 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08035 | EL104 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08036 | EL104 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08037 | EL105 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08038 | EL105 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08039 | EL105 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08040 | EL105 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08041 | EL105 | L-850C | BIDIREC. | WHITE WHITE | L-868B (N) | QUART LI HT |
| 35LE-08042 | EL105 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08043 | EL105 | L-850C | BIDIREC. | WHITE WHITE | L-868B (N) | QUART LI HT |
| 35LE-08044 | EL105 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08045 | EL105 | L-850C | BIDIREC. | WHITE WHITE | L-868B (N) | QUART LI HT |
| 35LE-08046 | EL105 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08047 | EL106 | L-850C | BIDIREC. | WHITE WHITE | L-868B (N) | QUART LI HT |
| 35LE-08048 | EL106 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08049 | EL106 | L-850C | BIDIREC. | WHITE WHITE | L-868B (N) | QUART LI HT |
| 35LE-08050 | EL106 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08051 | EL106 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08052 | EL106 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08053 | EL106 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08054 | EL106 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08055 | EL107 | L-850C | BIDIREC. | WHITE WHITE | L-868B (N) | QUART LI HT |
| 35LE-08056 | EL107 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08057 | EL107 | L-850C | BIDIREC. | WHITE WHITE | L-868B (N) | QUART LI HT |
| 35LE-08058 | EL107 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08059 | EL107 | L-850C | BIDIREC. | WHITE WHITE | L-868B (N) | QUART LI HT |
| 35LE-08060 | EL107 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08061 | EL107 | L-850C | BIDIREC. | WHITE WHITE | L-868B (N) | QUART LI HT |
| 35LE-08062 | EL107 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08063 | EL107 | L-850C | BIDIREC. | WHITE WHITE | L-868B (N) | QUART LI HT |
| 35LE-08064 | EL107 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08065 | EL108 | L-850C | BIDIREC. | WHITE WHITE | L-868B (N) | QUART LI HT |
| 35LE-08066 | EL108 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08067 | EL108 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |
| 35LE-08068 | EL108 | L-862 | BIDIREC. | WHITE WHITE | L-867B (E) | QUART LI HT |

NOTES:

1. SEE SHEETS E–001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L–868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L–867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

BIDIREC. – BIDIRECTIONAL
OMNI – OMNIDIRECTIONAL
UNIDIREC. – UNIDIRECTIONAL
EXT – EXTENSION
(L) – LED (UNLESS OTHERWISE NOTED)
MFG. – MANUFACTURER
(RR) – REMOVE AND REINSTALL
(E) – EXISTING TO BE REUSED
(N) – NEW
N/A – NOT APPLICABLE

COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | ADDENDUM 2 | 1/17/19 | DL |
| 5 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: FIXTURE SCHEDULE CIRCUIT 35LE
SHEET NO. EL852
339 OF 396
CADD FILE NO. _201735882-B1EELD-6334

D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELD-6334.dwg Feb 12, 2019 - 5:32pm Kat

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| 17RC-08001 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08002 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08003 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08004 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08005 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08006 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08007 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08008 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08009 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08010 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08011 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (N) | |
| 17RC-08012 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08013 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08014 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08015 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08016 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08017 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08018 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08019 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08020 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (N) | |
| 17RC-08021 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08022 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08023 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (N) | |
| 17RC-08024 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08025 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08026 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08027 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08028 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08029 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08030 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08031 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08032 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08033 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08034 | EL109 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08035 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08036 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08037 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08038 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08039 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08040 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08041 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08042 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08043 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08044 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08045 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08046 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08047 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08048 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08049 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08050 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08051 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08052 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08053 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08054 | EL110 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08055 | EL111 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08056 | EL111 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08057 | EL111 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08058 | EL111 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08059 | EL111 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08060 | EL111 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08061 | EL111 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08062 | EL111 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08063 | EL111 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08064 | EL111 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |

MATCH LINE SEE SHEET RIGHT

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|

MATCH LINE SEE SHEET LEFT

| | | | | | | |
|---|---|---|---|---|---|---|
| 17RC-08065 | EL111 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08066 | EL111 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08067 | EL111 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08068 | EL111 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08069 | EL111 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08070 | EL111 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08071 | EL111 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08072 | EL111 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08073 | EL111 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08074 | EL112 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08075 | EL112 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08076 | EL112 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08077 | EL112 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08078 | EL112 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08079 | EL112 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08080 | EL112 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08081 | EL112 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08082 | EL112 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08083 | EL112 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08084 | EL112 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08085 | EL112 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08086 | EL112 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08087 | EL112 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08088 | EL112 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08089 | EL112 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08090 | EL112 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08091 | EL112 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08092 | EL112 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08093 | EL112 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08094 | EL113 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08095 | EL113 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08096 | EL113 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08097 | EL113 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08098 | EL113 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08099 | EL113 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08100 | EL113 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 17RC-08101 | EL113 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08102 | EL113 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08103 | EL113 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 17RC-08104 | EL113 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 17RC-08105 | EL113 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 17RC-08106 | EL113 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 17RC-08107 | EL113 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 17RC-08108 | EL113 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 17RC-08109 | EL113 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 17RC-08110 | EL113 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 17RC-08111 | EL113 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 17RC-08112 | EL113 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 17RC-08113 | EL113 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 17RC-08114 | EL114 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 17RC-08115 | EL114 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 17RC-08116 | EL114 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 17RC-08117 | EL114 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 17RC-08118 | EL114 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 17RC-08119 | EL114 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 17RC-08120 | EL114 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

| | | |
|---|---|---|
| BIDIREC. | – | BIDIRECTIONAL |
| OMNI | – | OMNIDIRECTIONAL |
| UNIDIREC. | – | UNIDIRECTIONAL |
| EXT | – | EXTENSION |
| (L) | – | LED (UNLESS OTHERWISE NOTED) |
| MFG. | – | MANUFACTURER |
| (RR) | – | REMOVE AND REINSTALL |
| (E) | – | EXISTING TO BE REUSED |
| (N) | – | NEW |
| N/A | – | NOT APPLICABLE |

COLORADO LICENSED
CARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

FIXTURE SCHEDULE CIRCUIT 17RC

SHEET NO. EL853



CADD FILE NO. _201735882-B1EELD-6334

D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\sheets_20173882-B1EELD-6334.dwg Feb 12, 2019 - 5:32pm Kat

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| 35LC-08001 | EL102 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08002 | EL102 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08003 | EL102 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08004 | EL102 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08005 | EL102 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08006 | EL102 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08007 | EL102 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08008 | EL102 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08009 | EL102 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08010 | EL102 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08011 | EL102 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08012 | EL102 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08013 | EL102 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08014 | EL102 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08015 | EL102 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08016 | EL103 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08017 | EL103 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08018 | EL103 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08019 | EL103 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08020 | EL103 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08021 | EL103 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (N) | |
| 35LC-08022 | EL103 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08023 | EL103 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (N) | |
| 35LC-08024 | EL103 | L-850A | BIDIREC. | WHITE/RED | L-868B (N) | |
| 35LC-08025 | EL103 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08026 | EL103 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08027 | EL103 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08028 | EL103 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08029 | EL103 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08030 | EL103 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08031 | EL103 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08032 | EL103 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08033 | EL103 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08034 | EL103 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08035 | EL103 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08036 | EL104 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08037 | EL104 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08038 | EL104 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08039 | EL104 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08040 | EL104 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08041 | EL104 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08042 | EL104 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08043 | EL104 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08044 | EL104 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08045 | EL104 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08046 | EL104 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08047 | EL104 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08048 | EL104 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08049 | EL104 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08050 | EL104 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08051 | EL104 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08052 | EL104 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08053 | EL104 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08054 | EL104 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08055 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08056 | EL105 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08057 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08058 | EL105 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08059 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08060 | EL105 | L-850A | BIDIREC. | WHITE/RED | L-868B (E) | |
| 35LC-08061 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08062 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08063 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08064 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |

MATCH LINE SEE SHEET RIGHT

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|

MATCH LINE SEE SHEET LEFT

| | | | | | | |
|---|---|---|---|---|---|---|
| 35LC-08065 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08066 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08067 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08068 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08069 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08070 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08071 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08072 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08073 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08074 | EL105 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08075 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08076 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08077 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08078 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08079 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08080 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08081 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08082 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08083 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08084 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08085 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08086 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08087 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08088 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08089 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08090 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08091 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08092 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (N) | |
| 35LC-08093 | EL106 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08094 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (N) | |
| 35LC-08095 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08096 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (N) | |
| 35LC-08097 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08098 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08099 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08100 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (N) | |
| 35LC-08101 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08102 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08103 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08104 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08105 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08106 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08107 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08108 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08109 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08110 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08111 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08112 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08113 | EL107 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08114 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08115 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (N) | |
| 35LC-08116 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08117 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |
| 35LC-08118 | EL108 | L-850A | BIDIREC. | WHITE/WHITE | L-868B (E) | |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

| | | |
|---|---|---|
| BIDIREC. | – | BIDIRECTIONAL |
| OMNI | – | OMNIDIRECTIONAL |
| UNIDIREC. | – | UNIDIRECTIONAL |
| EXT | – | EXTENSION |
| (L) | – | LED (UNLESS OTHERWISE NOTED) |
| MFG. | – | MANUFACTURER |
| (RR) | – | REMOVE AND REINSTALL |
| (E) | – | EXISTING TO BE REUSED |
| (N) | – | NEW |
| N/A | – | NOT APPLICABLE |

COLORADO LICENSED
TERON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

FIXTURE SCHEDULE CIRCUIT 35LC

SHEET NO. EL854



CADD FILE NO. _201735882-B1EELD-6334

D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELD-6334.dwg Feb 12, 2019 - 5:32pm Kat

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| 17RTD-08001 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08002 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08003 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08004 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08005 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08006 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08007 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08008 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08009 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08010 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08011 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08012 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08013 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08014 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08015 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08016 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08017 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08018 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08091 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08092 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08093 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08094 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08095 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08096 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08097 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08098 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08099 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08100 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08101 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08102 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08103 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08104 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08105 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08106 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08107 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08108 | EL111 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08019 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08020 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08021 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08022 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08023 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08024 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08025 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08026 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08027 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08028 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08029 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08030 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08031 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08032 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08033 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08034 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08035 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08036 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08037 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08038 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08039 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08040 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08041 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08042 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08043 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08044 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08045 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08046 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08047 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08048 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08109 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08110 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08111 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08112 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08113 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08114 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08115 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08116 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08117 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08118 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08119 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08120 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |

MATCH LINE SEE SHEET RIGHT

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|

MATCH LINE SEE SHEET LEFT

| | | | | | | |
|---|---|---|---|---|---|---|
| 17RTD-08121 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08122 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08123 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08124 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08125 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08126 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08127 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08128 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08129 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08130 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08131 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08132 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08133 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08134 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08135 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08136 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08137 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08138 | EL112 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08049 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08050 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08151 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08152 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08153 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08154 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08155 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08156 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08157 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08158 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08159 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08160 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08161 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08162 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08163 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08164 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08165 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08166 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08167 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08168 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08169 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08170 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08171 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08172 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08173 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08174 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08175 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08176 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08177 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08178 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08139 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08140 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08141 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08142 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08143 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08144 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08145 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08146 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08147 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08148 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08149 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08150 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08151 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08152 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08153 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08154 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08155 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08156 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08157 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08158 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08159 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08160 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08161 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08162 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08163 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08164 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08165 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |

MATCH LINE SEE SHEET EL856

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

| | | |
|---|---|---|
| BIDIREC. | – | BIDIRECTIONAL |
| OMNI | – | OMNIDIRECTIONAL |
| UNIDIREC. | – | UNIDIRECTIONAL |
| EXT | – | EXTENSION |
| (L) | – | LED (UNLESS OTHERWISE NOTED) |
| MFG. | – | MANUFACTURER |
| (RR) | – | REMOVE AND REINSTALL |
| (E) | – | EXISTING TO BE REUSED |
| (N) | – | NEW |
| N/A | – | NOT APPLICABLE |

COLORADO LICENSED
BORON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | ADDENDUM 2 | 1/17/19 | DL |
| 5 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE
AS INDICATED

DATE
FEBRUARY 15, 2019

DRAWN BY:
KV

CHECKED BY:
JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO.
201735882

CONST. CONTRACT NO.
2018462?1

VOLUME NO.

SHEET TITLE
FIXTURE SCHEDULE CIRCUIT 17RTD□ (1 OF 2)

SHEET NO.
EL855
342 OF 396

CADD FILE NO.
_201735882-B1EELD-6334

Feb 12, 2019 – 5:32pm Kat
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| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| | | MATCH LINE SEE SHEET EL855 | | | | |
| 17RTD-08166 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08167 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08168 | EL113 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08079 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08080 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08081 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08082 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08083 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08084 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08085 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08086 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08087 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08088 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08089 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08090 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08169 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08170 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08171 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08172 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08173 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08174 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08175 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08176 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08177 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08178 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 17RTD-08179 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 17RTD-08180 | EL114 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

| | | |
|---|---|---|
| BIDIREC. | – | BIDIRECTIONAL |
| OMNI | – | OMNIDIRECTIONAL |
| UNIDIREC. | – | UNIDIRECTIONAL |
| EXT | – | EXTENSION |
| (L) | – | LED (UNLESS OTHERWISE NOTED) |
| MFG. | – | MANUFACTURER |
| (RR) | – | REMOVE AND REINSTALL |
| (E) | – | EXISTING TO BE REUSED |
| (N) | – | NEW |
| N/A | – | NOT APPLICABLE |

COLORADO LICENSED
DORON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201946271

VOLUME NO.

SHEET TITLE

FIXTURE SCHEDULE CIRCUIT 17RTD□ (2 OF 2)

SHEET NO. EL856

343 OF 396

CADD FILE NO. _201735882-B1EELD-6334

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| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| 35LTD-08001 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08002 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08003 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08004 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08005 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08006 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08007 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08008 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08009 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08010 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08011 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08012 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08013 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08014 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08015 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08016 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08017 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08018 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08019 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08020 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08021 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08022 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08023 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08024 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08025 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08026 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08027 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08028 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08029 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08030 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08031 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08032 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08033 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08034 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08035 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08036 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08037 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08038 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08039 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08040 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08041 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08042 | EL102 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08043 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08044 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08045 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08046 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08047 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08048 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08049 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08050 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08051 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08052 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08053 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08054 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08055 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08056 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08057 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08058 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08059 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08060 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08061 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08062 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08063 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08064 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08065 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08066 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08067 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08068 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08069 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08070 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08071 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08072 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08073 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08074 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08075 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08076 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08077 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08078 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08079 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08080 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08081 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |

MATCH LINE SEE SHEET RIGHT

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|

MATCH LINE SEE SHEET LEFT

| | | | | | | |
|---|---|---|---|---|---|---|
| 35LTD-08082 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08083 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08084 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08085 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08086 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08087 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08088 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08089 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08090 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08091 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08092 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08093 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08094 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08095 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08096 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08097 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08098 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08099 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08100 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08101 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08102 | EL103 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08103 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08104 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08105 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08106 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08107 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08108 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08109 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08110 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08111 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08112 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08113 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08114 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08115 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08116 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08117 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08118 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08119 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08120 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08121 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08122 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08123 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08124 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08125 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08126 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08127 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08128 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08129 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08130 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08131 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08132 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08133 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08134 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08135 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08136 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08137 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08138 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (N) | |
| 35LTD-08139 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08140 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08141 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08142 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08143 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08144 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08145 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08146 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08147 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08148 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08149 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08150 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08151 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08152 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08153 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08154 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08155 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08156 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08157 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD-08158 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |

MATCH LINE SEE SHEET EL858

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

| | | |
|---|---|---|
| BIDIREC. | – | BIDIRECTIONAL |
| OMNI | – | OMNIDIRECTIONAL |
| UNIDIREC. | – | UNIDIRECTIONAL |
| EXT | – | EXTENSION |
| (L) | – | LED (UNLESS OTHERWISE NOTED) |
| MFG. | – | MANUFACTURER |
| (RR) | – | REMOVE AND REINSTALL |
| (E) | – | EXISTING TO BE REUSED |
| (N) | – | NEW |
| N/A | – | NOT APPLICABLE |

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RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE: FIXTURE SCHEDULE CIRCUIT 35LTD□ (1 OF 2)

SHEET NO. EL857

344 OF 396

CADD FILE NO. _201735882-B1EELD-6334

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| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| | | MATCH LINE SEE SHEET EL857 | | | | |
| 35LTD□-08159 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08160 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08161 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08162 | EL104 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08163 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08164 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08165 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08166 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08167 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08168 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08169 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08170 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08171 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08172 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08173 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08174 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08175 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08176 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08177 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08178 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08179 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |
| 35LTD□-08180 | EL105 | L-850B | UNIDIREC. | WHITE | L-868B (E) | |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

BIDIREC. – BIDIRECTIONAL
OMNI – OMNIDIRECTIONAL
UNIDIREC. – UNIDIRECTIONAL
EXT – EXTENSION
(L) – LED (UNLESS OTHERWISE NOTED)
MFG. – MANUFACTURER
(RR) – REMOVE AND REINSTALL
(E) – EXISTING TO BE REUSED
(N) – NEW
N/A – NOT APPLICABLE

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LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201946271
VOLUME NO.
SHEET TITLE: FIXTURE SCHEDULE CIRCUIT 35LTD□ (2 OF 2)
SHEET NO. EL858
345 OF 396
CADD FILE NO. _201735882-B1EELD-6334

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| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| TMWW-08001 | EL102 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| TMWW-08002 | EL102 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| TMWW-08003 | EL102 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| TMWW-08004 | EL102 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| | | | | | | |
| TMWW-08005 | EL103 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| TMWW-08006 | EL103 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| | | | | | | |
| TMWW-08007 | EL105 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| TMWW-08008 | EL105 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| | | | | | | |
| TMWW-08009 | EL106 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| TMWW-08010 | EL106 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| | | | | | | |
| TMWW-08011 | EL109 | L-804 | UNIDIREC. | YELLOW | L-867B (N) | |
| TMWW-08012 | EL109 | L-804 | UNIDIREC. | YELLOW | L-867B (N) | |
| | | | | | | |
| TMWW-08013 | EL111 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| TMWW-08014 | EL111 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| | | | | | | |
| TMWW-08015 | EL112 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| TMWW-08016 | EL112 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| | | | | | | |
| TMWW-08017 | EL113 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| TMWW-08018 | EL114 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| | | | | | | |
| TMWW-08019 | EL114 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| TMWW-08020 | EL114 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| | | | | | | |
| TMWW-08023 | EL115 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| TMWW-08024 | EL115 | L-804 | UNIDIREC. | YELLOW | L-867B (E) | |
| | | | | | | |
| TMWW-08025 | EL116 | L-804 | UNIDIREC. | YELLOW | L-867B (N) | |
| TMWW-08026 | EL116 | L-804 | UNIDIREC. | YELLOW | L-867B (N) | |
| | | | | | | |
| TMWW-08021 | EL116 | COVER PLATE | N/A | N/A | L-867B (E) | |
| TMWW-08022 | EL116 | COVER PLATE | N/A | N/A | L-867B (E) | |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
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5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

BIDIREC. – BIDIRECTIONAL
OMNI – OMNIDIRECTIONAL
UNIDIREC. – UNIDIRECTIONAL
EXT – EXTENSION
(L) – LED (UNLESS OTHERWISE NOTED)
MFG. – MANUFACTURER
(RR) – REMOVE AND REINSTALL
(E) – EXISTING TO BE REUSED
(N) – NEW
N/A – NOT APPLICABLE

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# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201946271
VOLUME NO.
SHEET TITLE

FIXTURE SCHEDULE CIRCUIT TMWW

SHEET NO. EL859
346 OF 396

CADD FILE NO. _201735882-B1EELD-6334

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RUNWAY SIDE OF HOLD-SHORT

| FIXTURE ID - LEAD ON | FIXTURE ID - LEAD OFF | REF. DW□ | FAA DES□NATION | FIXTURE TY□E | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|---|
| TM1SB2A-08001 | TM1SB3-08001 | EL102 | L-852C | BIDIREC. | □REEN□□REEN | L-868B (E) | DUAL CIRCUIT |
| TM1SB2A-08002 | TM1SB3-08002 | EL102 | L-852C | BIDIREC. | YELLOW□YELLOW | L-868B (E) | DUAL CIRCUIT |
| TM1SB2A-08003 | TM1SB3-08003 | EL102 | L-852C | BIDIREC. | □REEN□□REEN | L-868B (E) | DUAL CIRCUIT |
| TM1SB2A-08004 | TM1SB3-08004 | EL102 | L-852D | BIDIREC. | YELLOW□YELLOW | L-868B (E) | DUAL CIRCUIT |
| TM1SB2B-08001 | TM1SB3-08005 | EL102 | L-852K | BIDIREC. | □REEN□□REEN | L-868B (E) | DUAL CIRCUIT |
| TM1SB2B-08002 | TM1SB3-08006 | EL102 | COVER □LATE | N□A | N□A | L-868B (E) | N□A |
| TM1SB2B-08003 | TM1SB3-08007 | EL102 | L-852K | BIDIREC. | YELLOW□YELLOW | L-868B (E) | DUAL CIRCUIT |
| TM1SB2B-08004 | TM1SB3-08008 | EL102 | COVER □LATE | N□A | N□A | L-868B (E) | N□A |
| TM1SB2B-08005 | TM1SB3-08009 | EL102 | L-852K | BIDIREC. | □REEN□□REEN | L-868B (N) | DUAL CIRCUIT |
| TM1SB2B-08006 | TM1SB3-08010 | EL102 | COVER □LATE | N□A | N□A | L-868B (E) | N□A |
| TM1SB2B-08007 | TM1SB3-08011 | EL102 | L-852K | BIDIREC. | YELLOW□YELLOW | L-868B (E) | DUAL CIRCUIT |
| TM1SB2B-08008 | TM1SB3-08012 | EL102 | COVER □LATE | N□A | N□A | L-868B (E) | N□A |
| TM1SB2B-08009 | TM1SB3-08013 | EL102 | L-852K | BIDIREC. | □REEN□□REEN | L-868B (E) | DUAL CIRCUIT |
| TM1SB2B-08010 | TM1SB3-08014 | EL102 | COVER □LATE | N□A | N□A | L-868B (E) | N□A |
| TM1SB2B-08011 | TM1SB3-08015 | EL102 | L-852K | BIDIREC. | YELLOW□YELLOW | L-868B (E) | DUAL CIRCUIT |
| TM1SB2B-08012 | TM1SB3-08016 | EL102 | COVER □LATE | N□A | N□A | L-868B (E) | N□A |
| TM1SB2B-08013 | TM1SB3-08017 | EL102 | L-852K | BIDIREC. | □REEN□□REEN | L-868B (E) | DUAL CIRCUIT |
| TM1SB2B-08014 | TM1SB3-08018 | EL102 | COVER □LATE | N□A | N□A | L-868B (E) | N□A |
| TM1SB2B-08015 | TM1SB3-08019 | EL102 | L-852K | BIDIREC. | YELLOW□YELLOW | L-868B (N) | DUAL CIRCUIT |
| TM1SB2B-08017 | TM1SB3-08021 | EL102 | L-852K | BIDIREC. | □REEN□□REEN | L-868B (N) | DUAL CIRCUIT |
| TM1SB2B-08019 | TM1SB3-08023 | EL102 | L-852K | BIDIREC. | □REEN□□REEN | L-868B (N) | DUAL CIRCUIT |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
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5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

BIDIREC. – BIDIRECTIONAL
OMNI – OMNIDIRECTIONAL
UNIDIREC. – UNIDIRECTIONAL
EXT – EXTENSION
(L) – LED (UNLESS OTHERWISE NOTED)
MFG. – MANUFACTURER
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(E) – EXISTING TO BE REUSED
(N) – NEW
N/A – NOT APPLICABLE

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LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | ADDENDUM 2 | 1/17/19 | DL |
| 5 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201946271
VOLUME NO.
SHEET TITLE: FIXTURE SCHEDULE TWY A
SHEET NO. EL860
347 OF 396
CADD FILE NO. _201735882-B1EELD-6334

Feb 12, 2019 – 5:33pm Kat
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RUNWAY SIDE OF HOLD–SHORT

| FIXTURE ID - LEAD ON | FIXTURE ID - LEAD OFF | REF. DW□ | FAA DES□NATION | FIXTURE TY□E | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|---|
| TM2SB2A-08001 | TM2SB3-08001 | EL102 | L-852C | BIDIREC. | □REEN/□REEN | L-868B (E) | DUAL CIRCUIT |
| TM2SB2A-08002 | TM2SB3-08002 | EL102 | L-852C | BIDIREC. | YELLOW/YELLOW | L-868B (E) | DUAL CIRCUIT |
| TM2SB2A-08003 | TM2SB3-08003 | EL102 | L-852C | BIDIREC. | □REEN/□REEN | L-868B (E) | DUAL CIRCUIT |
| TM2SB2A-08004 | TM2SB3-08004 | EL102 | L-852D | BIDIREC. | YELLOW/YELLOW | L-868B (E) | DUAL CIRCUIT |
| TM2SB2B-08001 | TM2SB3-08005 | EL102 | L-852K | BIDIREC. | □REEN/□REEN | L-868B (E) | DUAL CIRCUIT |
| TM2SB2B-08002 | TM2SB3-08006 | EL102 | COVER □LATE | N□A | N□A | L-868B (E) | DUAL CIRCUIT |
| TM2SB2B-08003 | TM2SB3-08007 | EL102 | L-852K | BIDIREC. | YELLOW/YELLOW | L-868B (E) | DUAL CIRCUIT |
| TM2SB2B-08004 | TM2SB3-08008 | EL102 | COVER □LATE | N□A | N□A | L-868B (E) | DUAL CIRCUIT |
| TM2SB2B-08005 | TM2SB3-08009 | EL102 | L-852K | BIDIREC. | □REEN/□REEN | L-868B (E) | DUAL CIRCUIT |
| TM2SB2B-08007 | TM2SB3-08011 | EL102 | L-852K | BIDIREC. | YELLOW/YELLOW | L-868B (N) | DUAL CIRCUIT |
| TM2SB2B-08009 | TM2SB3-08013 | EL102 | L-852K | BIDIREC. | □REEN/□REEN | L-868B (E) | DUAL CIRCUIT |
| TM2SB2B-08010 | TM2SB3-08014 | EL102 | COVER □LATE | N□A | N□A | L-868B (E) | DUAL CIRCUIT |
| TM2SB2B-08011 | TM2SB3-08015 | EL102 | L-852K | BIDIREC. | YELLOW/YELLOW | L-868B (E) | DUAL CIRCUIT |
| TM2SB2B-08012 | TM2SB3-08016 | EL102 | COVER □LATE | N□A | N□A | L-868B (E) | DUAL CIRCUIT |
| TM2SB2B-08013 | TM2SB3-08017 | EL102 | L-852K | BIDIREC. | □REEN/□REEN | L-868B (E) | DUAL CIRCUIT |
| TM2SB2B-08014 | TM2SB3-08018 | EL102 | COVER □LATE | N□A | N□A | L-868B (E) | DUAL CIRCUIT |
| TM2SB2B-08015 | TM2SB3-08019 | EL102 | L-852K | BIDIREC. | YELLOW/YELLOW | L-868B (N) | DUAL CIRCUIT |
| TM2SB2B-08017 | TM2SB3-08021 | EL102 | L-852K | BIDIREC. | □REEN/□REEN | L-868B (N) | DUAL CIRCUIT |
| TM2SB2B-08019 | TM2SB3-08023 | EL102 | L-852K | BIDIREC. | □REEN/□REEN | L-868B (N) | DUAL CIRCUIT |

NOTES:

1. SEE SHEETS E–001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L–868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L–867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

BIDIREC. – BIDIRECTIONAL
OMNI – OMNIDIRECTIONAL
UNIDIREC. – UNIDIRECTIONAL
EXT – EXTENSION
(L) – LED (UNLESS OTHERWISE NOTED)
MFG. – MANUFACTURER
(RR) – REMOVE AND REINSTALL
(E) – EXISTING TO BE REUSED
(N) – NEW
N/A – NOT APPLICABLE

COLORADO LICENSED
GORON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | ADDENDUM 2 | 1/17/19 | DL |
| 5 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201946271
VOLUME NO.
SHEET TITLE: FIXTURE SCHEDULE TWY M2
SHEET NO. EL861 348 OF 396
CADD FILE NO. _201735882-B1EELD-6334

D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\sheets_20173582-B1EELD-6334.dwg Feb 12, 2019 – 5:33pm Kat

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| TEASB3-08001 | EL103 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TEASB3-08002 | EL103 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |
| TEASB3-08003 | EL103 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TEASB3-08004 | EL103 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TEASB3-08005 | EL103 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TEASB3-08006 | EL103 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TEASB3-08007 | EL103 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TEASB3-08008 | EL103 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TEASB3-08009 | EL103 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TEASB3-08010 | EL103 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TEASB3-08011 | EL103 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TEASB3-08012 | EL103 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TEASB3-08013 | EL103 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TEASB3-08014 | EL103 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TEASB3-08015 | EL103 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TEASB3-08016 | EL103 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TEASB3-08017 | EL103 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TEASB3-08018 | EL103 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TEASB3-08019 | EL103 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TEASB3-08020 | EL103 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TEASB3-08021 | EL103 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TEASB3-08022 | EL103 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TEASB3-08023 | EL103 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TEASB3-08024 | EL103 | L-852K | UNIDIREC. | GREEN | L-868B (N) | |
| | | | | | | |
| TEASB3-08026 | EL103 | L-852K | UNIDIREC. | YELLOW | L-868B (N) | |
| | | | | | | |
| TEASB3-08028 | EL103 | L-852K | UNIDIREC. | GREEN | L-868B (N) | |
| TEASB3-08029 | EL103 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TEASB3-08030 | EL103 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TEASB3-08031 | EL103 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TEASB3-08032 | EL103 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TEASB3-08033 | EL103 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TEASB3-08034 | EL103 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TEASB3-08035 | EL103 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TEASB3-08036 | EL103 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TEASB3-08037 | EL103 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TEASB3-08038 | EL103 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TEASB3-08039 | EL103 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TEASB3-08040 | EL103 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TEASB3-08041 | EL103 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TEASB3-08042 | EL103 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| | | | | | | |
| T-4HC1-07201 | EL103 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| T-4HC1-07200 | EL103 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |
| T-4HC1-07199 | EL115 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| T-4HC1-07198 | EL115 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |
| T-4HC1-07197 | EL115 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

BIDIREC. – BIDIRECTIONAL
OMNI – OMNIDIRECTIONAL
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EXT – EXTENSION
(L) – LED (UNLESS OTHERWISE NOTED)
MFG. – MANUFACTURER
(RR) – REMOVE AND REINSTALL
(E) – EXISTING TO BE REUSED
(N) – NEW
N/A – NOT APPLICABLE

COLORADO LICENSED
GORON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | ADDENDUM 2 | 1/17/19 | DL |
| 5 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201946271
VOLUME NO.
SHEET TITLE: FIXTURE SCHEDULE TWY EA
SHEET NO. EL862
349 OF 396
CADD FILE NO. _201735882-B1EELD-6334

Feb 12, 2019 – 5:33pm Kat
D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\sheets_20173582-B1EELD-6334.dwg

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| TM5HC-08044 | EL105 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08045 | EL105 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08046 | EL105 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08047 | EL105 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08048 | EL105 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08049 | EL105 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08050 | EL105 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08051 | EL105 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08052 | EL105 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08053 | EL105 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08054 | EL105 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08055 | EL105 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08056 | EL105 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08057 | EL105 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08058 | EL105 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08059 | EL105 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08060 | EL105 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08061 | EL105 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08062 | EL105 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08063 | EL105 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08064 | EL105 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08065 | EL105 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08066 | EL105 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08067 | EL105 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08068 | EL105 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08069 | EL105 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08070 | EL105 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08071 | EL105 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08072 | EL105 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08073 | EL105 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08074 | EL105 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08075 | EL105 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08076 | EL105 | L-852C | UNIDIREC. | YELLOW | L-868B (N) | |
| TM5HC-08077 | EL105 | L-852C | UNIDIREC. | GREEN | L-868B (N) | |
| TM5HC-08078 | EL105 | L-852C | UNIDIREC. | YELLOW | L-868B (N) | |
| TM5HC-08079 | EL105 | L-852C | UNIDIREC. | GREEN | L-868B (N) | |
| TM5HC-08080 | EL105 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM5HC-08081 | EL105 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |
| TM5HC-08082 | EL105 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM5HC-08083 | EL105 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |
| TM5HC-08084 | EL105 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM5HC-08085 | EL105 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |
| TM5HC-08086 | EL105 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM5HC-08087 | EL105 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |
| TM5HC-08088 | EL105 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM5HC-08089 | EL105 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |
| TM5HC-08090 | EL105 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08091 | EL105 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08092 | EL105 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08093 | EL106 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08094 | EL106 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08095 | EL106 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08096 | EL106 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08097 | EL106 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08098 | EL106 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08099 | EL106 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08100 | EL106 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08101 | EL106 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08102 | EL106 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08103 | EL106 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08104 | EL106 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08105 | EL106 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08106 | EL106 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08107 | EL106 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08108 | EL106 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08109 | EL106 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08110 | EL106 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08111 | EL106 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08112 | EL106 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08135 | EL106 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08136 | EL106 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08137 | EL106 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08138 | EL106 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08139 | EL106 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08140 | EL106 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08141 | EL106 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08142 | EL106 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08143 | EL106 | COVER PLATE | N/A | N/A | L-868B (E) | |

MATCH LINE SEE SHEET RIGHT

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|

MATCH LINE SEE SHEET LEFT

| | | | | | | |
|---|---|---|---|---|---|---|
| TM5HC-08144 | EL106 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08145 | EL106 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08146 | EL106 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08147 | EL106 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08148 | EL106 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08149 | EL106 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08150 | EL106 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08151 | EL106 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08152 | EL106 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08153 | EL106 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08154 | EL106 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08155 | EL106 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08156 | EL106 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08157 | EL106 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08158 | EL106 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08159 | EL106 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08160 | EL106 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08161 | EL106 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08162 | EL106 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08163 | EL106 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08164 | EL106 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08165 | EL106 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08166 | EL106 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08167 | EL106 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM5HC-08168 | EL106 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08169 | EL106 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08170 | EL106 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08171 | EL106 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08172 | EL106 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08173 | EL106 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08174 | EL107 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08175 | EL107 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08176 | EL107 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08177 | EL107 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08178 | EL107 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08179 | EL107 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08180 | EL107 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM5HC-08181 | EL107 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08182 | EL107 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08183 | EL107 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08184 | EL107 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08185 | EL107 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08186 | EL107 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08187 | EL107 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08188 | EL107 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08189 | EL107 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08190 | EL107 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08191 | EL107 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08192 | EL107 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08193 | EL107 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08194 | EL107 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08195 | EL108 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08196 | EL108 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08197 | EL108 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08198 | EL108 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08199 | EL108 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08200 | EL108 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08201 | EL108 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08202 | EL108 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |
| TM5HC-08203 | EL108 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TM5HC-08204 | EL108 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

| | | |
|---|---|---|
| BIDIREC. | – | BIDIRECTIONAL |
| OMNI | – | OMNIDIRECTIONAL |
| UNIDIREC. | – | UNIDIRECTIONAL |
| EXT | – | EXTENSION |
| (L) | – | LED (UNLESS OTHERWISE NOTED) |
| MFG. | – | MANUFACTURER |
| (RR) | – | REMOVE AND REINSTALL |
| (E) | – | EXISTING TO BE REUSED |
| (N) | – | NEW |
| N/A | – | NOT APPLICABLE |

COLORADO LICENSED
DIXON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

FIXTURE SCHEDULE CIRCUIT TM5HC

SHEET NO. EL863



CADD FILE NO. _201735882-B1EELD-6334

D:\Dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELD-6334.dwg Feb 12, 2019 - 5:33pm Kat

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| TM6HC-08001 | EL108 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08002 | EL108 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08003 | EL108 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08004 | EL108 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08005 | EL108 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08006 | EL108 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08007 | EL108 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08008 | EL108 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08009 | EL108 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08010 | EL108 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08011 | EL108 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08012 | EL108 | L-852C | UNIDIREC. | GREEN | L-868B (N) | |
| TM6HC-08013 | EL108 | L-852C | UNIDIREC. | YELLOW | L-868B (N) | |
| TM6HC-08014 | EL108 | L-852C | UNIDIREC. | GREEN | L-868B (N) | |
| TM6HC-08015 | EL108 | L-852C | UNIDIREC. | YELLOW | L-868B (N) | |
| TM6HC-08016 | EL108 | L-852C | UNIDIREC. | GREEN | L-868B (N) | |
| TM6HC-08017 | EL108 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM6HC-08018 | EL108 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |
| TM6HC-08019 | EL109 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM6HC-08020 | EL109 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |
| TM6HC-08021 | EL109 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM6HC-08022 | EL109 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |
| TM6HC-08023 | EL109 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM6HC-08024 | EL109 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |
| TM6HC-08025 | EL109 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM6HC-08026 | EL109 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |
| TM6HC-08027 | EL109 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM6HC-08028 | EL109 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |
| TM6HC-08029 | EL109 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM6HC-08030 | EL109 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |
| TM6HC-08031 | EL109 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM6HC-08032 | EL109 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |
| TM6HC-08033 | EL109 | L-852C | UNIDIREC. | YELLOW | L-868B (N) | |
| TM6HC-08034 | EL109 | L-852C | UNIDIREC. | GREEN | L-868B (N) | |
| TM6HC-08035 | EL109 | L-852C | UNIDIREC. | YELLOW | L-868B (N) | |
| TM6HC-08036 | EL109 | L-852C | UNIDIREC. | YELLOW | L-868B (N) | |
| TM6HC-08037 | EL109 | L-852K | UNIDIREC. | GREEN | L-868K (N) | |
| TM6HC-08038 | EL109 | L-852K | UNIDIREC. | YELLOW | L-868K (N) | |
| TM6HC-08039 | EL109 | L-852K | UNIDIREC. | GREEN | L-868K (N) | |
| TM6HC-08044 | EL109 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08045 | EL109 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM6HC-08046 | EL109 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08047 | EL109 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM6HC-08048 | EL109 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08049 | EL109 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM6HC-08050 | EL109 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08051 | EL109 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM6HC-08052 | EL109 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08053 | EL109 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM6HC-08054 | EL109 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08055 | EL109 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM6HC-08056 | EL109 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08057 | EL109 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM6HC-08058 | EL109 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08059 | EL109 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM6HC-08060 | EL109 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08061 | EL109 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM6HC-08062 | EL109 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08063 | EL109 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM6HC-08064 | EL109 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08065 | EL109 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM6HC-08066 | EL109 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM6HC-08067 | EL109 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM6HC-08068 | EL109 | L-852C | UNIDIREC. | GREEN | L-868B (N) | |
| TM6HC-08069 | EL109 | L-852C | UNIDIREC. | YELLOW | L-868B (N) | TWY M6 |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

| | | |
|---|---|---|
| BIDIREC. | – | BIDIRECTIONAL |
| OMNI | – | OMNIDIRECTIONAL |
| UNIDIREC. | – | UNIDIRECTIONAL |
| EXT | – | EXTENSION |
| (L) | – | LED (UNLESS OTHERWISE NOTED) |
| MFG. | – | MANUFACTURER |
| (RR) | – | REMOVE AND REINSTALL |
| (E) | – | EXISTING TO BE REUSED |
| (N) | – | NEW |
| N/A | – | NOT APPLICABLE |

COLORADO LICENSED
GORON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

FIXTURE SCHEDULE CIRCUIT TM6HC

SHEET NO. EL864

351 OF 396

CADD FILE NO. _201735882-B1EELD-6334

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| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| TM7HC-08001 | EL109 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08002 | EL109 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08003 | EL109 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |
| TM7HC-08004 | EL109 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08005 | EL109 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM7HC-08006 | EL109 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08007 | EL109 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM7HC-08008 | EL109 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08009 | EL109 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM7HC-08010 | EL109 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08011 | EL110 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM7HC-08012 | EL110 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08013 | EL110 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM7HC-08014 | EL110 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08015 | EL110 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM7HC-08016 | EL110 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08017 | EL110 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM7HC-08018 | EL110 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |
| TM7HC-08019 | EL110 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM7HC-08020 | EL110 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |
| TM7HC-08021 | EL110 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM7HC-08022 | EL110 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |
| TM7HC-08023 | EL110 | L-852D | UNIDIREC. | YELLOW | L-868B (N) | |
| TM7HC-08024 | EL110 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08025 | EL110 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM7HC-08026 | EL110 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08027 | EL110 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM7HC-08028 | EL110 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08029 | EL110 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM7HC-08030 | EL110 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08031 | EL111 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM7HC-08032 | EL111 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08033 | EL111 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |
| TM7HC-08034 | EL111 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08035 | EL111 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |
| TM7HC-08036 | EL111 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08037 | EL111 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM7HC-08038 | EL111 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08039 | EL111 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM7HC-08040 | EL111 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TM7HC-08041 | EL111 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM7HC-08042 | EL111 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08043 | EL111 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM7HC-08044 | EL111 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08045 | EL111 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM7HC-08046 | EL111 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08047 | EL111 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM7HC-08048 | EL111 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08049 | EL111 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM7HC-08050 | EL111 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08051 | EL111 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM7HC-08052 | EL111 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08053 | EL111 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM7HC-08054 | EL111 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08055 | EL111 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM7HC-08056 | EL111 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08057 | EL111 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM7HC-08058 | EL111 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08059 | EL111 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM7HC-08060 | EL111 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08061 | EL111 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM7HC-08062 | EL111 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08063 | EL111 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM7HC-08064 | EL111 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08065 | EL111 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM7HC-08066 | EL111 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08067 | EL111 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM7HC-08068 | EL111 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM7HC-08075 | EL111 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |
| TM7HC-08076 | EL111 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

BIDIREC. – BIDIRECTIONAL
OMNI – OMNIDIRECTIONAL
UNIDIREC. – UNIDIRECTIONAL
EXT – EXTENSION
(L) – LED (UNLESS OTHERWISE NOTED)
MFG. – MANUFACTURER
(RR) – REMOVE AND REINSTALL
(E) – EXISTING TO BE REUSED
(N) – NEW
N/A – NOT APPLICABLE

COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: FIXTURE SCHEDULE CIRCUIT TM7HC
SHEET NO. EL865

CADD FILE NO. _201735882-B1EELD-6334

D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\sheets_201735882-B1EELD-6334.dwg Feb 12, 2019 - 5:33pm Kat

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| TECSB3-08001 | EL112 | L-852C | UNIDIREC. | GREEN | L-868B (N) | |
| TECSB3-08002 | EL112 | L-852C | UNIDIREC. | YELLOW | L-868B (N) | |
| TECSB3-08003 | EL112 | L-852C | UNIDIREC. | GREEN | L-868B (N) | |
| TECSB3-08004 | EL112 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |
| TECSB3-08005 | EL112 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TECSB3-08006 | EL112 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TECSB3-08007 | EL112 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TECSB3-08008 | EL112 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TECSB3-08009 | EL112 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TECSB3-08010 | EL112 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TECSB3-08011 | EL112 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TECSB3-08012 | EL112 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TECSB3-08013 | EL112 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TECSB3-08014 | EL112 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TECSB3-08015 | EL112 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TECSB3-08017 | EL112 | L-852K | UNIDIREC. | GREEN | L-868B (N) | |
| TECSB3-08019 | EL112 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TECSB3-08020 | EL112 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TECSB3-08021 | EL112 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TECSB3-08022 | EL112 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TECSB3-08023 | EL112 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| TECSB3-08024 | EL112 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TECSB3-08025 | EL112 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TECSB3-08026 | EL112 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TECSB3-08027 | EL112 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TECSB3-08028 | EL112 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TECSB3-08029 | EL112 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TECSB3-08030 | EL112 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TECSB3-08031 | EL112 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TECSB3-08032 | EL112 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TECSB3-08033 | EL112 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TECSB3-08034 | EL112 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TECSB3-08036 | EL112 | L-852K | UNIDIREC. | GREEN | L-868B (N) | |
| TECSB3-08038 | EL112 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TECSB3-08039 | EL112 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TECSB3-08040 | EL112 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TECSB3-08041 | EL112 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TECSB3-08042 | EL112 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| | | | | | | |
| TESCB5-07015 | EL112 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TESCB5-07014 | EL112 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TESCB5-07012 | EL112 | COVER PLATE | N/A | N/A | L-868B (N) | |
| TESCB5-07009 | EL112 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TESCB5-07008 | EL112 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TESCB5-07007 | EL116 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |
| TESCB5-07006 | EL116 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TESCB5-07005 | EL116 | L-852C | UNIDIREC. | YELLOW | L-868B (E) | |
| TESCB5-07004 | EL116 | L-852C | UNIDIREC. | GREEN | L-868B (N) | |
| TESCB5-07003 | EL116 | L-852C | BIDIREC. | YELLOW | L-868B (E) | |
| TESCB5-07002 | EL116 | L-852C | BIDIREC. | GREEN | L-868B (E) | |
| TESCB5-07001 | EL116 | L-852C | BIDIREC. | GREEN | L-868B (E) | |

## TWY EC EDGE LIGHTS:

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| TECE1-07033 | EL112 | L-861T | OMNI | BLUE | L-868B (E) | |
| TECE1-07032 | EL112 | L-861T | OMNI | BLUE | L-868B (E) | |
| TECE1-07031 | EL112 | L-861T | OMNI | BLUE | L-868B (E) | |
| TECE1-07034 | EL112 | L-861T | OMNI | BLUE | L-868B (E) | |
| TECE1-07035 | EL112 | L-861T | OMNI | BLUE | L-868B (E) | |
| TECE1-07036 | EL112 | L-861T | OMNI | BLUE | L-868B (E) | |
| TECE1-07030 | EL116 | L-861T | OMNI | BLUE | L-868B (E) | |
| TECE1-07029 | EL116 | L-861T | OMNI | BLUE | L-868B (E) | |
| TECE1-07028 | EL116 | L-861T | OMNI | BLUE | L-868B (E) | |
| TECE1-07037 | EL116 | L-861T | OMNI | BLUE | L-868B (E) | |
| TECE1-07038 | EL116 | L-861T | OMNI | BLUE | L-868B (E) | |
| TECE1-07039 | EL116 | L-861T | OMNI | BLUE | L-868B (E) | |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

| | | |
|---|---|---|
| BIDIREC. | – | BIDIRECTIONAL |
| OMNI | – | OMNIDIRECTIONAL |
| UNIDIREC. | – | UNIDIRECTIONAL |
| EXT | – | EXTENSION |
| (L) | – | LED (UNLESS OTHERWISE NOTED) |
| MFG. | – | MANUFACTURER |
| (RR) | – | REMOVE AND REINSTALL |
| (E) | – | EXISTING TO BE REUSED |
| (N) | – | NEW |
| N/A | – | NOT APPLICABLE |

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DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | ADDENDUM 2 | 1/17/19 | DL |
| 5 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE: FIXTURE SCHEDULE TWY EC

SHEET NO. EL866 353 OF 396

CADD FILE NO. _201735882-B1EELD-6334

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| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| TM9SB3-08011 | EL113 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TM9SB3-08012 | EL113 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM9SB3-08013 | EL113 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM9SB3-08014 | EL113 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM9SB3-08015 | EL113 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TM9SB3-08016 | EL113 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM9SB3-08017 | EL113 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM9SB3-08018 | EL113 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM9SB3-08019 | EL113 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TM9SB3-08020 | EL113 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM9SB3-08021 | EL113 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM9SB3-08022 | EL113 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM9SB3-08023 | EL113 | L-852D | UNIDIREC. | GREEN | L-868B (E) | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| TM9SB3-08001 | EL114 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TM9SB3-08002 | EL114 | L-852C | UNIDIREC. | YELLOW | L-868B (N) | |
| TM9SB3-08003 | EL114 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TM9SB3-08004 | EL114 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM9SB3-08005 | EL114 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM9SB3-08006 | EL114 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM9SB3-08007 | EL114 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TM9SB3-08008 | EL114 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM9SB3-08009 | EL114 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM9SB3-08010 | EL114 | COVER PLATE | N/A | N/A | L-868B (E) | |
| | | | | | | |
| | | | | | | |
| TMC9-08037 | EL114 | L-852C | BIDIREC. | GREEN/YELLOW | L-868B (N) | |
| TM10SB3-08001 | EL114 | L-852C | UNIDIREC. | GREEN | L-868B (N) | |
| TM10SB3-08002 | EL114 | L-852C | UNIDIREC. | YELLOW | L-868B (N) | |
| TM10SB3-08003 | EL114 | L-852C | UNIDIREC. | GREEN | L-868B (E) | |
| TM10SB3-08004 | EL114 | L-852D | UNIDIREC. | YELLOW | L-868B (E) | |
| TM10SB3-08005 | EL114 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM10SB3-08006 | EL114 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM10SB3-08007 | EL114 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TM10SB3-08009 | EL114 | L-852K | UNIDIREC. | GREEN | L-868B (N) | |
| TM10SB3-08010 | EL114 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM10SB3-08011 | EL114 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TM10SB3-08012 | EL114 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM10SB3-08013 | EL114 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM10SB3-08014 | EL114 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM10SB3-08015 | EL114 | L-852K | UNIDIREC. | YELLOW | L-868B (E) | |
| TM10SB3-08016 | EL114 | COVER PLATE | N/A | N/A | L-868B (E) | |
| TM10SB3-08017 | EL114 | L-852K | UNIDIREC. | GREEN | L-868B (E) | |
| TM10SB3-08019 | EL114 | L-852K | UNIDIREC. | YELLOW | L-868B (N) | |
| TM10SB3-08021 | EL114 | L-852K | UNIDIREC. | GREEN | L-868B (N) | |
| TM10SB3-08023 | EL114 | L-852D | UNIDIREC. | GREEN | L-868B (N) | |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
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4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

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OMNI – OMNIDIRECTIONAL
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EXT – EXTENSION
(L) – LED (UNLESS OTHERWISE NOTED)
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CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | ADDENDUM 2 | 1/17/19 | DL |
| 5 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: FIXTURE SCHEDULE TWY M9 & M10
SHEET NO. EL867
354 OF 396
CADD FILE NO. _201735882-B1EELD-6334

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| FIXTURE ID | REF. DW | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| TM1SB1-08001 | EL102 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| TM1SB1-08002 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM1SB1-08003 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM1SB1-08004 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM1SB1-08005 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM1SB1-08006 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM1SB1-08007 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM1SB1-08008 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM1SB1-08009 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM1SB1-08010 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM1SB1-08011 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM1SB1-08012 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM1SB1-08013 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM1SB1-08014 | EL102 | L-862S | UNIDIRECT. | RED | L-867B (E) | SINGLE |
| TM2SB1-08001 | EL102 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| TM2SB1-08002 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM2SB1-08003 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM2SB1-08004 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM2SB1-08005 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM2SB1-08006 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM2SB1-08007 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM2SB1-08008 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM2SB1-08009 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM2SB1-08010 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM2SB1-08011 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM2SB1-08013 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM2SB1-08014 | EL102 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM2SB1-08012 | EL102 | L-852S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| TEASB1-08001 | EL103 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| TEASB1-08002 | EL103 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08003 | EL103 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08004 | EL103 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08005 | EL103 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08006 | EL103 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08007 | EL103 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08008 | EL103 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08009 | EL103 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08010 | EL103 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08011 | EL103 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08012 | EL103 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08013 | EL103 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08014 | EL103 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08015 | EL103 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| TEASB1-08217 | EL115 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| TEASB1-08218 | EL115 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08219 | EL115 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08220 | EL115 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08221 | EL115 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08222 | EL115 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08223 | EL115 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08224 | EL115 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08225 | EL115 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TEASB1-08226 | EL115 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| TM4SB1-08001 | EL105 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| TM4SB1-08002 | EL105 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM4SB1-08003 | EL105 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM4SB1-08004 | EL105 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM4SB1-08005 | EL105 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM4SB1-08006 | EL105 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM4SB1-08007 | EL105 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM4SB1-08008 | EL105 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM4SB1-08009 | EL105 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM4SB1-08010 | EL105 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM4SB1-08011 | EL105 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM4SB1-08012 | EL105 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM4SB1-08013 | EL105 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM4SB1-08014 | EL105 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM4SB1-08015 | EL105 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM4SB1-08016 | EL105 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| TM5SB1-08001 | EL106 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| TM5SB1-08002 | EL106 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM5SB1-08003 | EL106 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM5SB1-08004 | EL106 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM5SB1-08005 | EL106 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM5SB1-08006 | EL106 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM5SB1-08007 | EL106 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM5SB1-08008 | EL106 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM5SB1-08009 | EL106 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |

MATCH LINE SEE SHEET RIGHT

| FIXTURE ID | REF. DW | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|

MATCH LINE SEE SHEET LEFT

| | | | | | | |
|---|---|---|---|---|---|---|
| TM5SB1-08009 | EL106 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM5SB1-08010 | EL106 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM5SB1-08011 | EL106 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM5SB1-08012 | EL106 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM5SB1-08013 | EL106 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM5SB1-08014 | EL106 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM5SB1-08015 | EL106 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM5SB1-08016 | EL106 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| TM6SB1-08001 | EL109 | L-862S | UNIDIREC. | RED | L-867B (N) | SINGLE |
| TM6SB1-08002 | EL109 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM6SB1-08003 | EL109 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM6SB1-08004 | EL109 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM6SB1-08005 | EL109 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM6SB1-08006 | EL109 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM6SB1-08007 | EL109 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM6SB1-08008 | EL109 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM6SB1-08009 | EL109 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM6SB1-08010 | EL109 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM6SB1-08011 | EL109 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM6SB1-08012 | EL109 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM6SB1-08013 | EL109 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM6SB1-08014 | EL109 | L-862S | UNIDIREC. | RED | L-867B (N) | SINGLE |
| | | | | | | |
| TM7SB1-08001 | EL111 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| TM7SB1-08002 | EL111 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM7SB1-08003 | EL111 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM7SB1-08004 | EL111 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM7SB1-08005 | EL111 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM7SB1-08006 | EL111 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM7SB1-08007 | EL111 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM7SB1-08008 | EL111 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM7SB1-08009 | EL111 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM7SB1-08010 | EL111 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM7SB1-08011 | EL111 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM7SB1-08012 | EL111 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM7SB1-08013 | EL111 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM7SB1-08014 | EL111 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM7SB1-08015 | EL111 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM7SB1-08016 | EL111 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| | | | | | | |
| TM9SB1-08001 | EL113 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| TM9SB1-08002 | EL113 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM9SB1-08003 | EL113 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM9SB1-08004 | EL113 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM9SB1-08005 | EL113 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM9SB1-08006 | EL113 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM9SB1-08007 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM9SB1-08008 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM9SB1-08009 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM9SB1-08010 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM9SB1-08011 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM9SB1-08012 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM9SB1-08013 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM9SB1-08014 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM9SB1-08015 | EL114 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| | | | | | | |
| TM10SB1-08001 | EL114 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| TM10SB1-08002 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM10SB1-08003 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM10SB1-08004 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM10SB1-08005 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM10SB1-08006 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM10SB1-08007 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM10SB1-08008 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (N) | DUAL |
| TM10SB1-08009 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM10SB1-08010 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM10SB1-08011 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM10SB1-08012 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM10SB1-08013 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM10SB1-08014 | EL114 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TM10SB1-08015 | EL114 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| | | | | | | |
| TECSB1-08001 | EL112 | L-862S | UNIDIREC. | RED | L-867B (E) | SINGLE |
| TECSB1-08002 | EL112 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TECSB1-08003 | EL112 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TECSB1-08004 | EL112 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |
| TECSB1-08005 | EL112 | L-852[illegible]S | UNIDIREC. | YELLOW/RED | L-868B (E) | DUAL |

MATCH LINE SEE SHEET EL869

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

BIDIREC. – BIDIRECTIONAL
OMNI – OMNIDIRECTIONAL
UNIDIREC. – UNIDIRECTIONAL
EXT – EXTENSION
(L) – LED (UNLESS OTHERWISE NOTED)
MFG. – MANUFACTURER
(RR) – REMOVE AND REINSTALL
(E) – EXISTING TO BE REUSED
(N) – NEW
N/A – NOT APPLICABLE

COLORADO LICENSED
CARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | ADDENDUM 2 | 1/17/19 | DL |
| 5 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: FIXTURE SCHEDULE CIRCUIT TMSB (1 OF 2)
SHEET NO. EL868 355 OF 396
CADD FILE NO. _201735882-B1EELD-6334

D:\dropbox (lean photometrics)\active projects\15718\01a rah den 17r-35l reconstruction\01 drawings\working drawings\sheets_20173582-B1EELD-6334.dwg Feb 12, 2019 - 5:34pm Kat

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|

## MATCH LINE SEE SHEET EL868

| | | | | | | |
|---|---|---|---|---|---|---|
| TECSB1-08006 | EL112 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (E) | DUAL |
| TECSB1-08007 | EL112 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (E) | DUAL |
| TECSB1-08008 | EL112 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (E) | DUAL |
| TECSB1-08009 | EL112 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (E) | DUAL |
| TECSB1-08010 | EL112 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (E) | DUAL |
| TECSB1-08011 | EL112 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (E) | DUAL |
| TECSB1-08012 | EL112 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (E) | DUAL |
| TECSB1-08013 | EL112 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (E) | DUAL |
| TECSB1-08014 | EL112 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (E) | DUAL |
| TECSB1-08015 | EL112 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (E) | DUAL |
| TECSB1-08016 | EL112 | L-862S | UNIDIREC. | RED | L-867B (E) | SIN[illegible]LE |
| | | | | | | |
| TECSB4-07001 | EL116 | C[illegible]r [illegible] | N[illegible]A | N[illegible]A | L-868B (E) | N[illegible]A |
| TECSB4-08002 | EL116 | C[illegible]r [illegible] | N[illegible]A | N[illegible]A | L-868B (E) | N[illegible]A |
| TECSB4-08003 | EL116 | C[illegible]r [illegible] | N[illegible]A | N[illegible]A | L-868B (E) | N[illegible]A |
| TECSB4-08004 | EL116 | C[illegible]r [illegible] | N[illegible]A | N[illegible]A | L-868B (E) | N[illegible]A |
| TECSB4-08005 | EL116 | C[illegible]r [illegible] | N[illegible]A | N[illegible]A | L-868B (E) | N[illegible]A |
| TECSB4-08006 | EL116 | C[illegible]r [illegible] | N[illegible]A | N[illegible]A | L-868B (E) | N[illegible]A |
| TECSB4-08007 | EL116 | C[illegible]r [illegible] | N[illegible]A | N[illegible]A | L-868B (E) | N[illegible]A |
| TECSB4-08008 | EL116 | C[illegible]r [illegible] | N[illegible]A | N[illegible]A | L-868B (E) | N[illegible]A |
| TECSB4-07010 | EL116 | C[illegible]r [illegible] | N[illegible]A | N[illegible]A | L-868B (E) | N[illegible]A |
| TECSB4-08010 | EL116 | L-862S | UNIDIREC. | RED | L-867B (N) | SIN[illegible]LE |
| TECSB4-08011 | EL116 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (N) | DUAL |
| TECSB4-08012 | EL116 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (N) | DUAL |
| TECSB4-08013 | EL116 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (N) | DUAL |
| TECSB4-08014 | EL116 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (N) | DUAL |
| TECSB4-08015 | EL116 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (N) | DUAL |
| TECSB4-08016 | EL116 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (N) | DUAL |
| TECSB4-08017 | EL116 | L-852[illegible]S | UNIDIREC. | YELLOW[illegible]RED | L-868B (N) | DUAL |
| TECSB4-08018 | EL116 | L-862S | UNIDIREC. | RED | L-867B (N) | SIN[illegible]LE |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

| | | |
|---|---|---|
| BIDIREC. | – | BIDIRECTIONAL |
| OMNI | – | OMNIDIRECTIONAL |
| UNIDIREC. | – | UNIDIRECTIONAL |
| EXT | – | EXTENSION |
| (L) | – | LED (UNLESS OTHERWISE NOTED) |
| MFG. | – | MANUFACTURER |
| (RR) | – | REMOVE AND REINSTALL |
| (E) | – | EXISTING TO BE REUSED |
| (N) | – | NEW |
| N/A | – | NOT APPLICABLE |

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LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201946271

VOLUME NO.

SHEET TITLE

FIXTURE SCHEDULE CIRCUIT TMSB (2 OF 2)

SHEET NO. EL869

356 OF 396

CADD FILE NO. _201735882-B1EELD-6334

Feb 12, 2019 – 5:34pm Kat

D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELD-6334.dwg

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| TME1-02501 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-02502 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-02503 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-02504 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-02505 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-02506 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08040 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08041 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08042 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08043 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08045 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08046 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08047 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08048 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08049 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08050 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08051 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08052 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08053 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08054 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08055 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08056 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08057 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08058 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08059 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08060 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08061 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08062 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08063 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08064 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08065 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08066 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08067 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08068 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08069 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08070 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08071 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08072 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08073 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08074 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08075 | EL102 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08094 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08095 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08096 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08097 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08098 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08099 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08100 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08101 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08110 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08111 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08112 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08113 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08114 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08115 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08116 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08117 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08118 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08144 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08145 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08146 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08147 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08148 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08149 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08150 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08151 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08152 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08189 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08165 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08166 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08167 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08168 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08169 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08170 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08171 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08172 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08173 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08174 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |

MATCH LINE SEE SHEET RIGHT

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|

MATCH LINE SEE SHEET LEFT

| | | | | | | |
|---|---|---|---|---|---|---|
| TME1-08175 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08176 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08177 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08178 | EL105 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08179 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08180 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08181 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08182 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08183 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08184 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME1-08185 | EL106 | COVER PLATE | N/A | N/A | L-867B (E) | |
| TME1-08186 | EL106 | COVER PLATE | N/A | N/A | L-867B (E) | |
| TME1-08187 | EL106 | COVER PLATE | N/A | N/A | L-867B (E) | |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

BIDIREC. – BIDIRECTIONAL
OMNI – OMNIDIRECTIONAL
UNIDIREC. – UNIDIRECTIONAL
EXT – EXTENSION
(L) – LED (UNLESS OTHERWISE NOTED)
MFG. – MANUFACTURER
(RR) – REMOVE AND REINSTALL
(E) – EXISTING TO BE REUSED
(N) – NEW
N/A – NOT APPLICABLE

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LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE
AS INDICATED

DATE
FEBRUARY 15, 2019

DRAWN BY:
KV

CHECKED BY:
JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO.
201735882

CONST. CONTRACT NO.
201846271

VOLUME NO.

SHEET TITLE
FIXTURE SCHEDULE CIRCUIT TME1

SHEET NO.
EL870
357 OF 396

CADD FILE NO.
_201735882-B1EELD-6334

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| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| TME2-08137 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08138 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08139 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08140 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08141 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08142 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08143 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08144 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08145 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08146 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08156 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08155 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08154 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08153 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08152 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08151 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08150 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08149 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08148 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08147 | EL112 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08188 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08190 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08191 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME2-08193 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

BIDIREC. – BIDIRECTIONAL
OMNI – OMNIDIRECTIONAL
UNIDIREC. – UNIDIRECTIONAL
EXT – EXTENSION
(L) – LED (UNLESS OTHERWISE NOTED)
MFG. – MANUFACTURER
(RR) – REMOVE AND REINSTALL
(E) – EXISTING TO BE REUSED
(N) – NEW
N/A – NOT APPLICABLE

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DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201946271
VOLUME NO.
SHEET TITLE

FIXTURE SCHEDULE CIRCUIT TME2

SHEET NO. EL871
358 OF 396

CADD FILE NO. _201735882-B1EELD-6334

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| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| TME4-08012 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08013 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08014 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08015 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08016 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08017 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08018 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08019 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08020 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08021 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08022 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08023 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08024 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08025 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08026 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08027 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08028 | EL106 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08029 | EL107 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08030 | EL107 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08031 | EL107 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08032 | EL107 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08033 | EL107 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08034 | EL107 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08035 | EL107 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08036 | EL107 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08037 | EL107 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08038 | EL107 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08039 | EL107 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08040 | EL108 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08041 | EL108 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08042 | EL108 | COVER PLATE | N/A | N/A | L-867B (E) | |
| TME4-08043 | EL108 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08043A | EL108 | COVER PLATE | N/A | N/A | L-867B (E) | |
| TME4-08044 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08045 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08046 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08047 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08048 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08049 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08050 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08051 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08052 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08053 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08054 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08055 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08056 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| | | | | | | |
| | | | | | | |
| TME4-08065 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08066 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08067 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08068 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08069 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08070 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08071 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08072 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08073 | EL109 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08086 | EL109 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08086A | EL109 | COVER PLATE | N/A | N/A | L-867B (E) | |
| TME4-08074 | EL110 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08075 | EL110 | L-861T | OMNI | BLUE | L-867B (N) | |
| TME4-08087 | EL110 | L-861T | OMNI | BLUE | L-867B (E) | |

MATCH LINE SEE SHEET RIGHT

| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|

MATCH LINE SEE SHEET LEFT

| | | | | | | |
|---|---|---|---|---|---|---|
| TME4-08088 | EL110 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08089 | EL110 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08090 | EL110 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08091 | EL110 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08092 | EL110 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08093 | EL110 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08094 | EL110 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08095 | EL110 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08096 | EL110 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08097 | EL110 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08098 | EL111 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08099 | EL111 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08100 | EL111 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08101 | EL111 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08102 | EL111 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08103 | EL111 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08104 | EL111 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08105 | EL111 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08113 | EL111 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08112 | EL111 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08111 | EL111 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08110 | EL111 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08109 | EL111 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08108 | EL111 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08107 | EL111 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08106 | EL111 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08125 | EL113 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08126 | EL113 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08127 | EL113 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08128 | EL113 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08129 | EL113 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08130 | EL113 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08131 | EL113 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08132 | EL113 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08133 | EL113 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08134 | EL113 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08135 | EL113 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08136 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08137 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08138 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08139 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08140 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08141 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08142 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08143 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08144 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08145 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08146 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08147 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08148 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08149 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08150 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08151 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08152 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08153 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08154 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08155 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08156 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08157 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08158 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08159 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08160 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08161 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |
| TME4-08162 | EL114 | L-861T | OMNI | BLUE | L-867B (E) | |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

BIDIREC. – BIDIRECTIONAL
OMNI – OMNIDIRECTIONAL
UNIDIREC. – UNIDIRECTIONAL
EXT – EXTENSION
(L) – LED (UNLESS OTHERWISE NOTED)
MFG. – MANUFACTURER
(RR) – REMOVE AND REINSTALL
(E) – EXISTING TO BE REUSED
(N) – NEW
N/A – NOT APPLICABLE

COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | ADDENDUM 2 | 1/17/19 | DL |
| 5 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE
AS INDICATED

DATE
FEBRUARY 15, 2019

DRAWN BY:
KV

CHECKED BY:
JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO.
201735882

CONST. CONTRACT NO.
201846271

VOLUME NO.

SHEET TITLE
FIXTURE SCHEDULE CIRCUIT TME4

SHEET NO.
EL872
359 OF 396

CADD FILE NO.
_201735882-B1EELD-6334

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| FIXTURE ID | REF. DWG | FAA DESIGNATION | FIXTURE TYPE | LENS COLOR | BASE CAN | COMMENTS |
|---|---|---|---|---|---|---|
| TPE1-07256 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TPE1-07257 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TPE1-07258 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TPE1-07259 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TPE1-07255 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TPE1-07254 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TPE1-07253 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TPE1-07252 | EL103 | L-861T | OMNI | BLUE | L-867B (E) | |
| TPE1-07260 | EL115 | L-861T | OMNI | BLUE | L-867B (E) | |
| TPE1-07261 | EL115 | L-861T | OMNI | BLUE | L-867B (E) | |
| TPE1-07251 | EL115 | L-861T | OMNI | BLUE | L-867B (E) | |
| TPE1-07252 | EL115 | L-861T | OMNI | BLUE | L-867B (E) | |

NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.

SHEET NOTES:

1. FOR (N) BASE CANS ON TWY M6 REFER TO EL900 SERIES. FOR ALL OTHER (N) BASE CANS CONTRACTOR MUST SURVEY (E) BASE CAN LOCATION AND INSTALL (N) BASE CAN AT SAME LOCATION AND ORIENTATION AND ALIGNMENT.
2. ALL LIGHTS MUST BE NEW AND LED U.O.N.
3. FOR ALL LIGHT FIXTURES (NEW AND REINSTALLED), FURNISH AND INSTALL CONNECTORS, SPACER RINGS, FLANGE RING, WITH PAVEMENT DAM, BOLTS, AND WASHERS.
4. FOR NEW LIGHTS, FURNISH AND INSTALL NEW TRANSFORMER SIZE PER MFG. RECOMMENDATIONS. SUPPLY WITH 6.6A PRIMARY/ 6.6A SECONDARY.
5. FOR EXISTING LIGHTS TO BE REMOVED AND REINSTALLED REFER TO SCHEDULE BELOW:

| LIGHT TYPE | XFMR TYPE |
|---|---|
| TWY CTL UNIDIRECTIONAL (LED) | 30/45 |

6. RECORD NUMBER AND DEPTH OF SPACERS.
7. L-868B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.
8. L-867B BASE CAN HEIGHT SHALL BE 22" U.O.N. ON AREA PLANS.

ABBREVIATIONS:

BIDIREC. – BIDIRECTIONAL
OMNI – OMNIDIRECTIONAL
UNIDIREC. – UNIDIRECTIONAL
EXT – EXTENSION
(L) – LED (UNLESS OTHERWISE NOTED)
MFG. – MANUFACTURER
(RR) – REMOVE AND REINSTALL
(E) – EXISTING TO BE REUSED
(N) – NEW
N/A – NOT APPLICABLE

COLORADO LICENSED
TARON LEAN
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2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

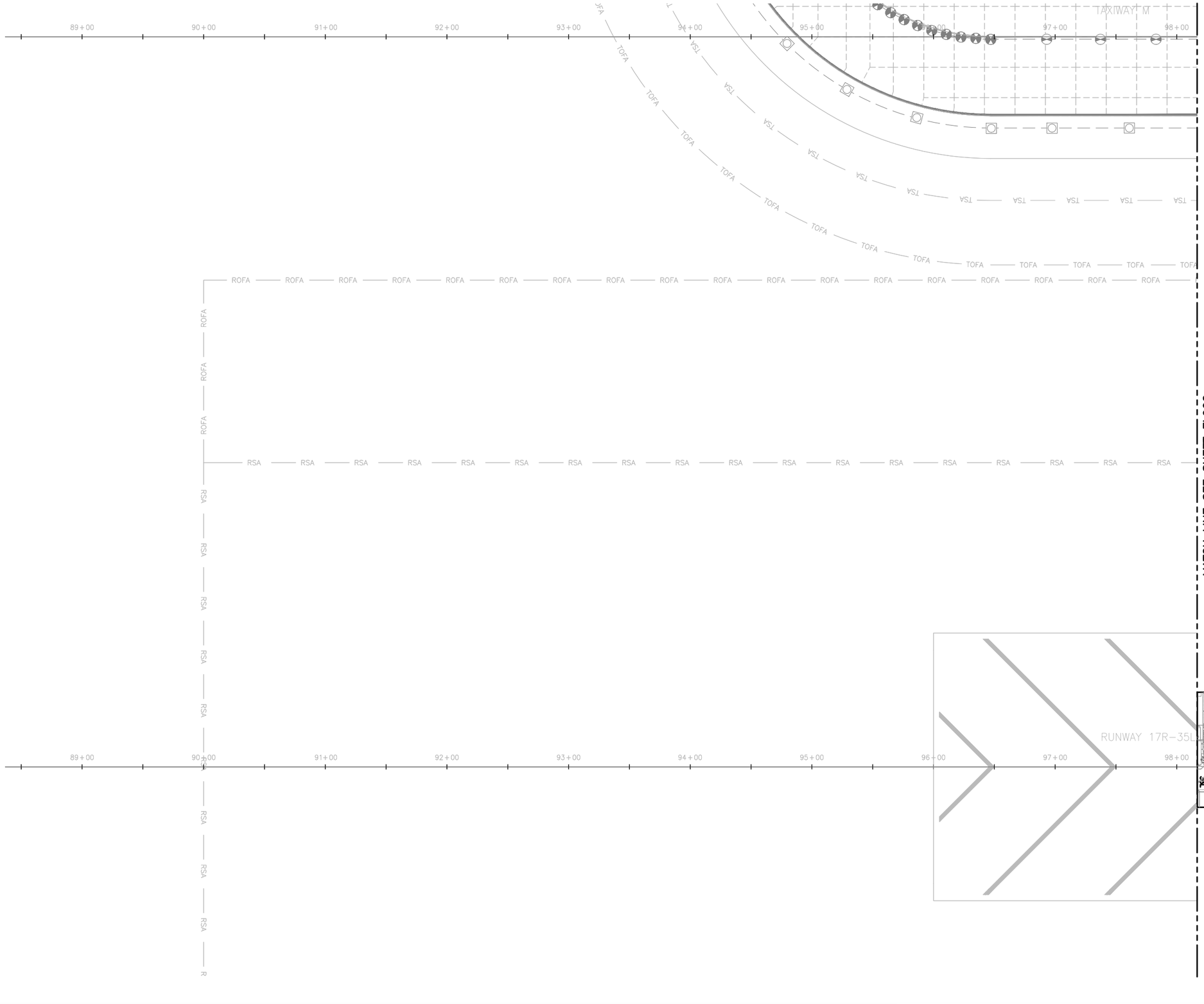
SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201946271
VOLUME NO.
SHEET TITLE

FIXTURE SCHEDULE CIRCUIT TPE1

SHEET NO. EL873
360 OF 396

CADD FILE NO. _201735882-B1EELD-6334

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NOTES:

1. THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. NO WORK IS REQUIRED.

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DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

BASE CAN COORDINATE PLAN (1 OF 17)

SHEET NO. EL901

361 OF 396

CADD FILE NO. _201735882-B1EELP-1356

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CARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

Feb 12, 2019 – 5:34pm Kat

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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.
2. THESE DRAWINGS PROVIDE (N) COORDINATES FOR (N) BASE CANS ON T/W M6, (N) HANDHOLES, & OTHER ELECTRICAL STRUCTURES.
3. FOR BASE CANS BEING INSTALLED IN (N) PANELS OTHER THAN M6 & NOT SHOWN HERE CONTRACTOR SHALL SURVEY EXISTING BASE CAN LOCATION PRIOR TO CONCRETE PANEL DEMOLITION. INSTALL (N) BASE CANS IN SAME LOCATION.

KEY NOTES:

1. NEW HANDHOLE LOCATION MUST BE FIELD VERIFIED AND APPROVED BY AIRPORT ENGINEER.

MATCH LINE SEE SHEET EL901

MATCH LINE SEE SHEET EL903

TAXIWAY M

TAXIWAY A

TAXIWAY M2

RUNWAY 17R-35L

TAS1-19519

TMS1-19503

TMS1-19502

TMS1-19505

EMH-02571

EMH-08056

TMH-08002

TMH-08003

TMH-08004

TCDB-08003

ALD-08400

ALD-08407

CCTV#1
E: 600142.51
N: 183568.52

SECONDARY WINDCONE
E: 600143.89
N: 183627.98

I/O CABINET SOUTH
E: 600143.35
N: 183607.08

E: 600232.25
N: 183484.46

E: 600240.38
N: 183496.96

E: 600373.44
N: 183496.20

E: 600406.65
N: 183530.58

E: 600461.98
N: 183529.97

E: 600466.34
N: 183198.91

NORTH

40' 20' 0 40'

KEY PLAN

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE: BASE CAN COORDINATE PLAN (2 OF 17)

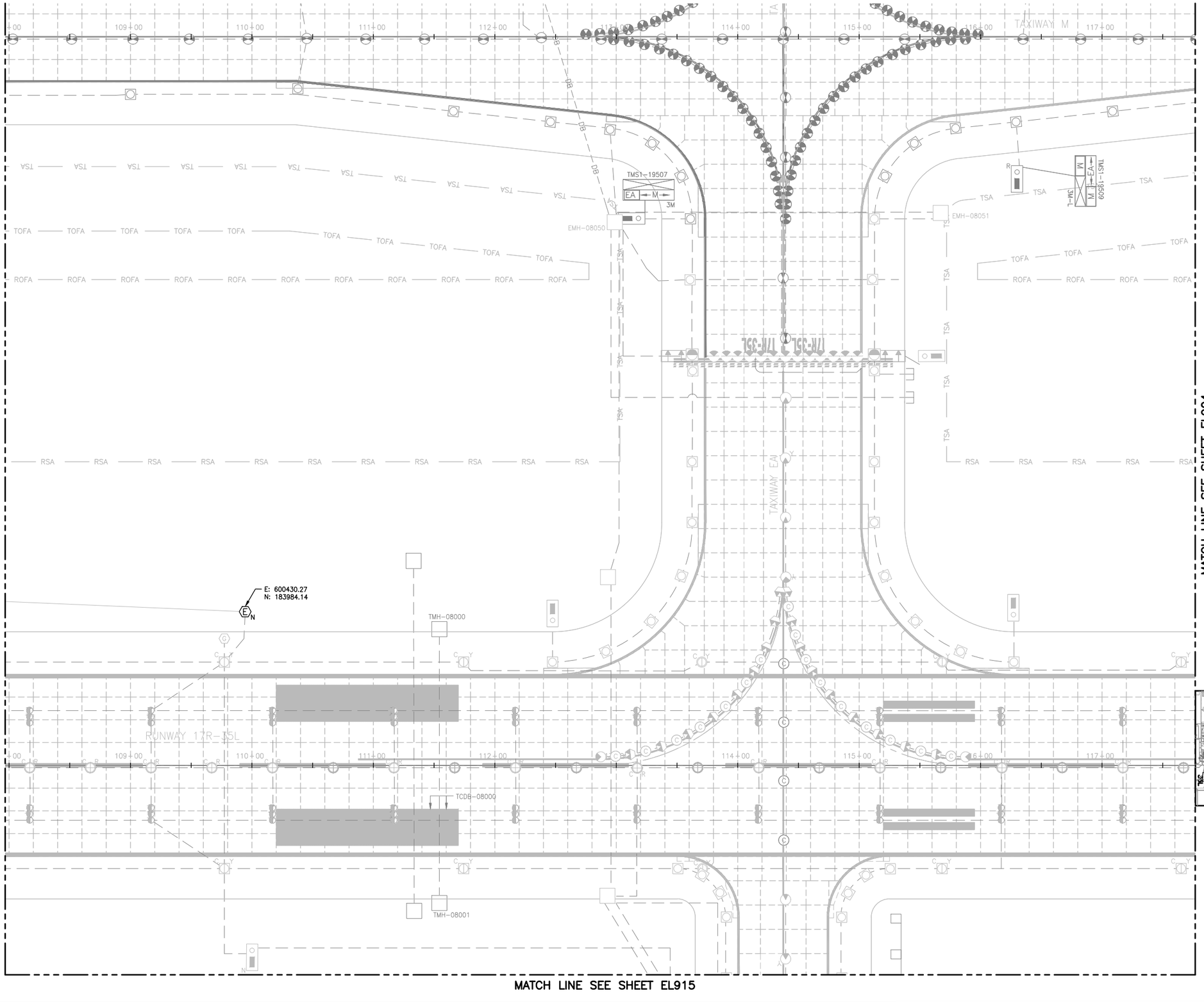
SHEET NO. EL902
362 OF 396

CADD FILE NO. _201735882-B1EELP-1356

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TERON LEA
52246
2/15/19
PROFESSIONAL ENGINEER

Feb 12, 2019 – 5:35pm Kat

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NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.
2. THESE DRAWINGS PROVIDE (N) COORDINATES FOR (N) BASE CANS ON T/W M6, (N) HANDHOLES, & OTHER ELECTRICAL STRUCTURES.
3. FOR BASE CANS BEING INSTALLED IN (N) PANELS OTHER THAN M6 & NOT SHOWN HERE CONTRACTOR SHALL SURVEY EXISTING BASE CAN LOCATION PRIOR TO CONCRETE PANEL DEMOLITION. INSTALL (N) BASE CANS IN SAME LOCATION.

NORTH

40' 20' 0 40'

KEY PLAN

MATCH LINE SEE SHEET EL915

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

BASE CAN COORDINATE PLAN (3 OF 17)

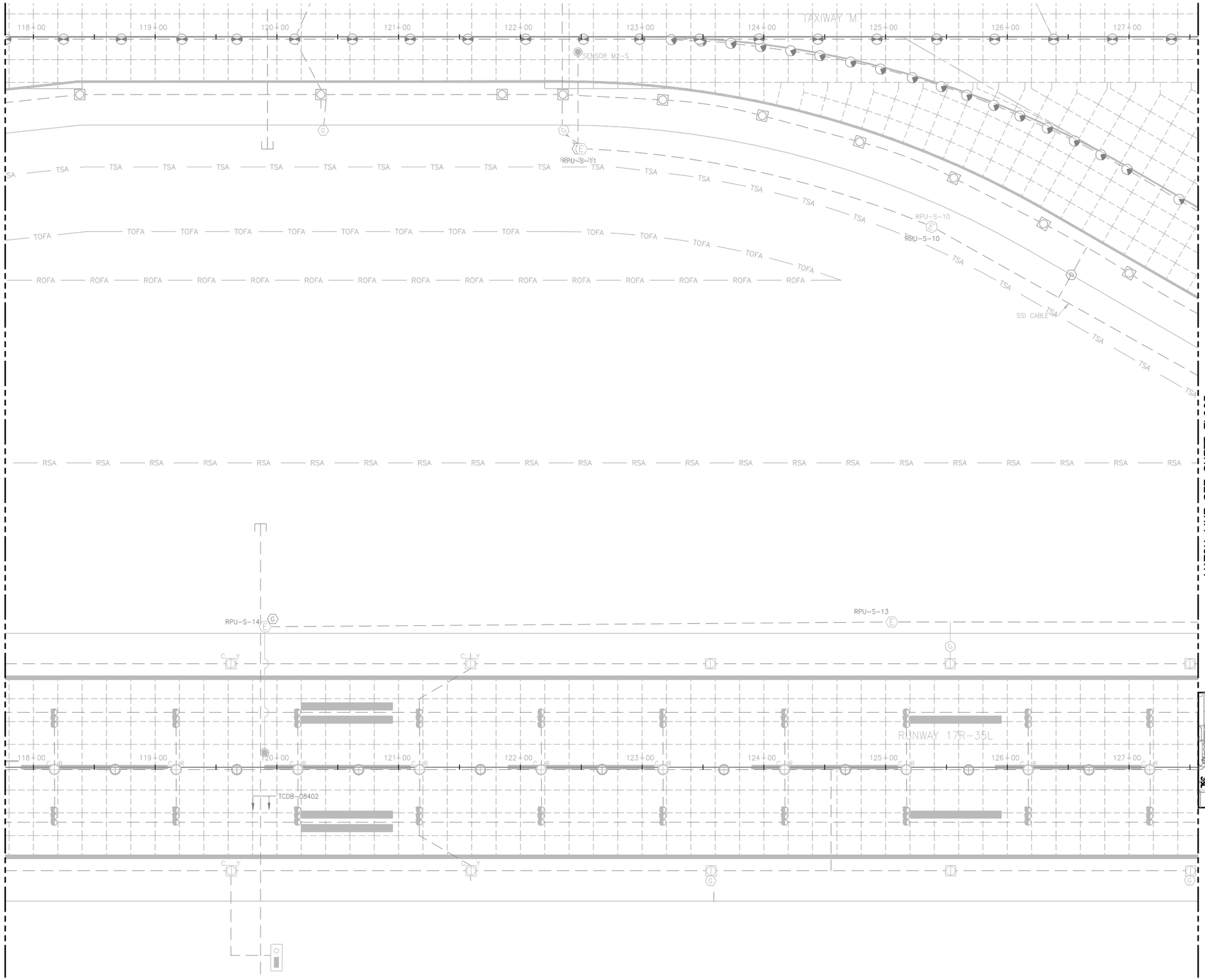
SHEET NO. EL903

363 OF 396

CADD FILE NO. _201735882-B1EELP-1356

COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELP-1356.dwg Feb 12, 2019 - 5:35pm Kat



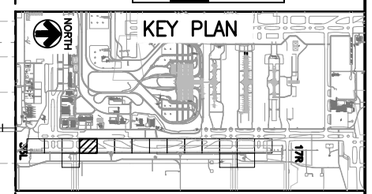

NOTES:

1. THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. NO WORK IS REQUIRED.

NORTH

40' 20' 0 40'

KEY PLAN



COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

BASE CAN COORDINATE PLAN (4 OF 17)

SHEET NO. EL904

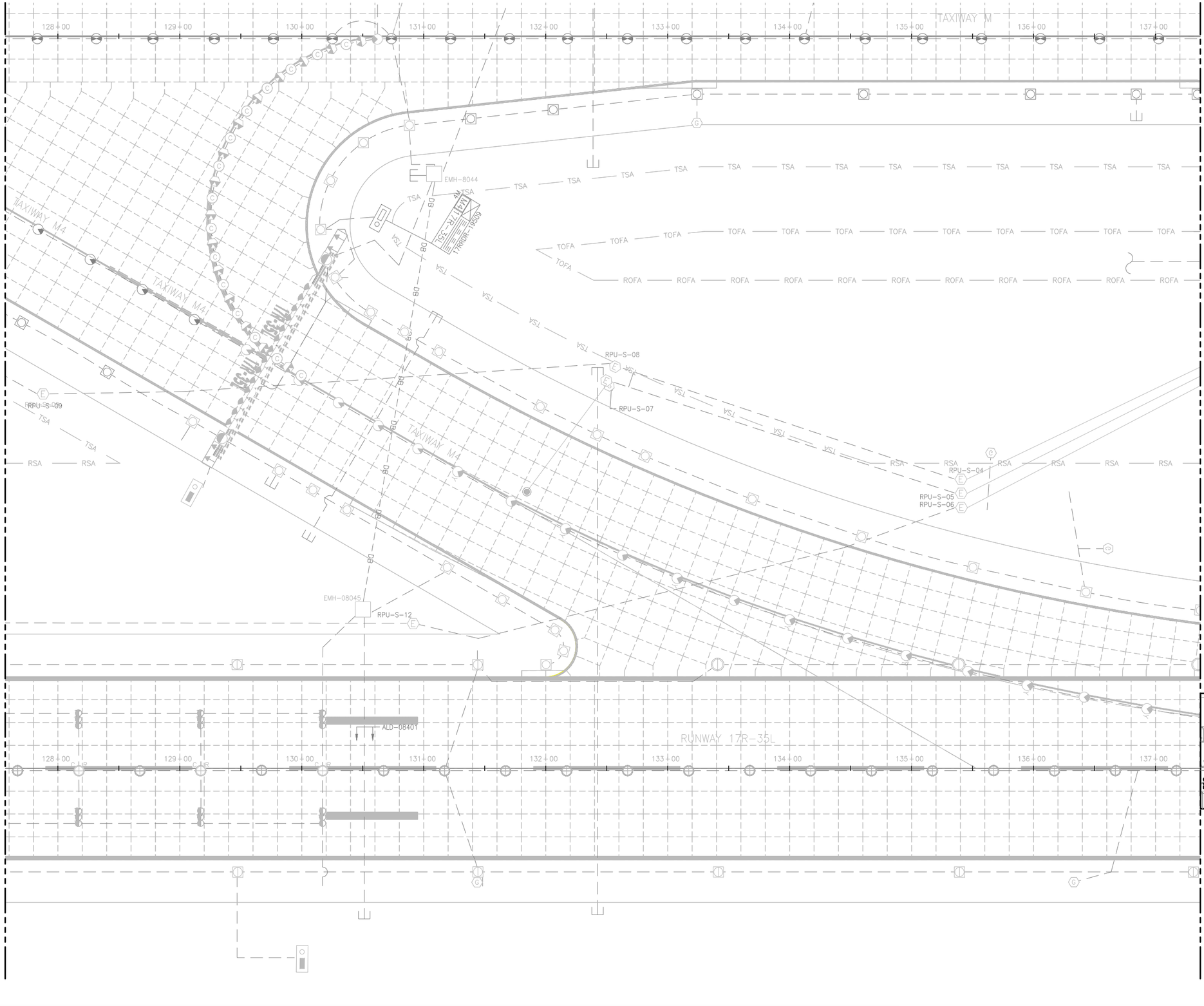
364 OF 396

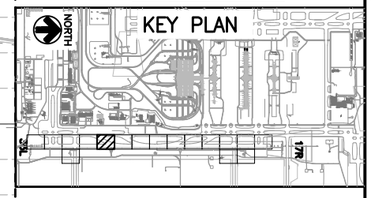
CADD FILE NO. _201735882-B1EELP-1356

D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELP-1356.dwg Feb 12, 2019 – 5:35pm Kat

NOTES:

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NORTH

40' 20' 0 40'




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DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

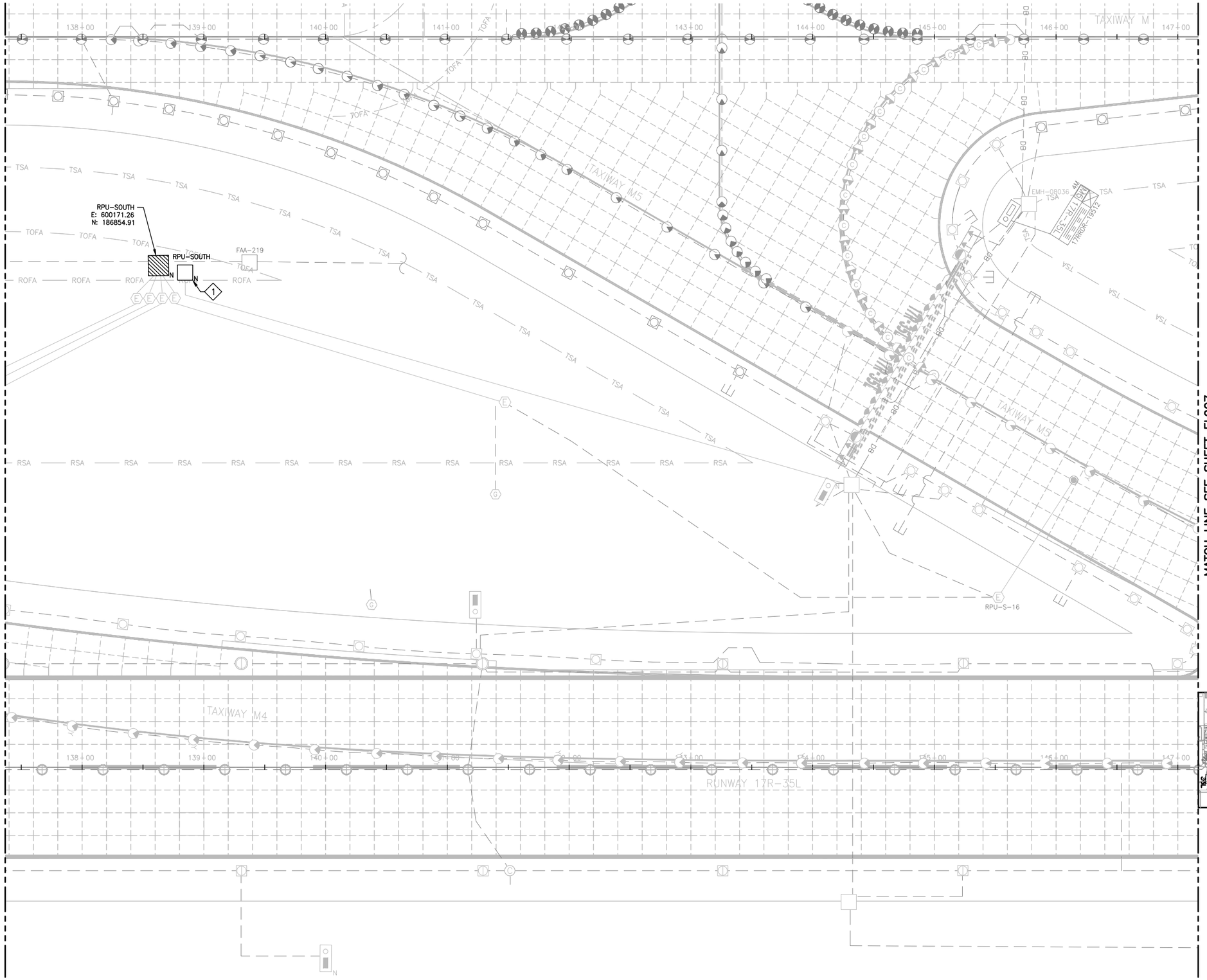
BASE CAN COORDINATE PLAN (5 OF 17)

SHEET NO. EL905

365 OF 396

CADD FILE NO. _201735882-B1EELP-1356

D:\Dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_20173582-B1EELP-1356.dwg Feb 12, 2019 – 5:35pm Kat




NOTES:

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2. THESE DRAWINGS PROVIDE (N) COORDINATES FOR (N) BASE CANS ON T/W M6, (N) HANDHOLES, & OTHER ELECTRICAL STRUCTURES.
3. FOR BASE CANS BEING INSTALLED IN (N) PANELS OTHER THAN M6 & NOT SHOWN HERE CONTRACTOR SHALL SURVEY EXISTING BASE CAN LOCATION PRIOR TO CONCRETE PANEL DEMOLITION. INSTALL (N) BASE CANS IN SAME LOCATION.

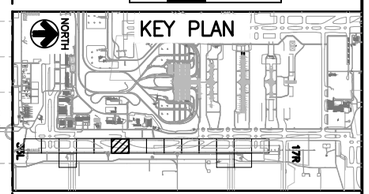
KEY NOTES:

1. NEW HANDHOLE LOCATION MUST BE FIELD VERIFIED AND APPROVED BY AIRPORT ENGINEER.

NORTH

40' 20' 0 40'

KEY PLAN



COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

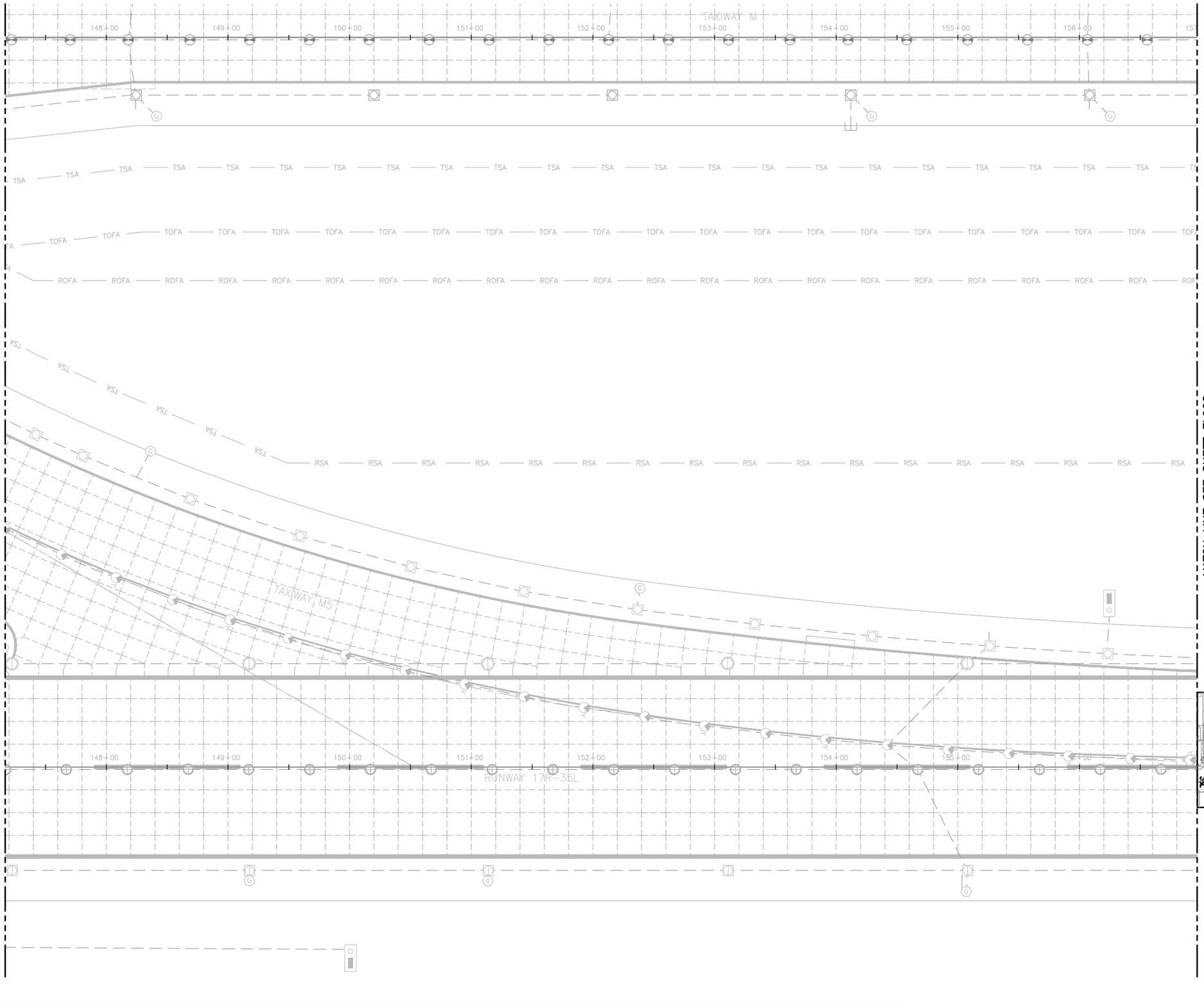
BASE CAN COORDINATE PLAN (6 OF 17)

SHEET NO. EL906

366 OF 396

CADD FILE NO. _201735882-B1EELP-1356

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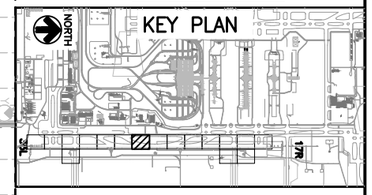

NOTES:

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NORTH

40' 20' 0 40'

KEY PLAN




COLORADO LICENSED
AARON LEAF
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
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| 1 | LE | 50% DESIGN | 09/14/18 | DL |
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| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

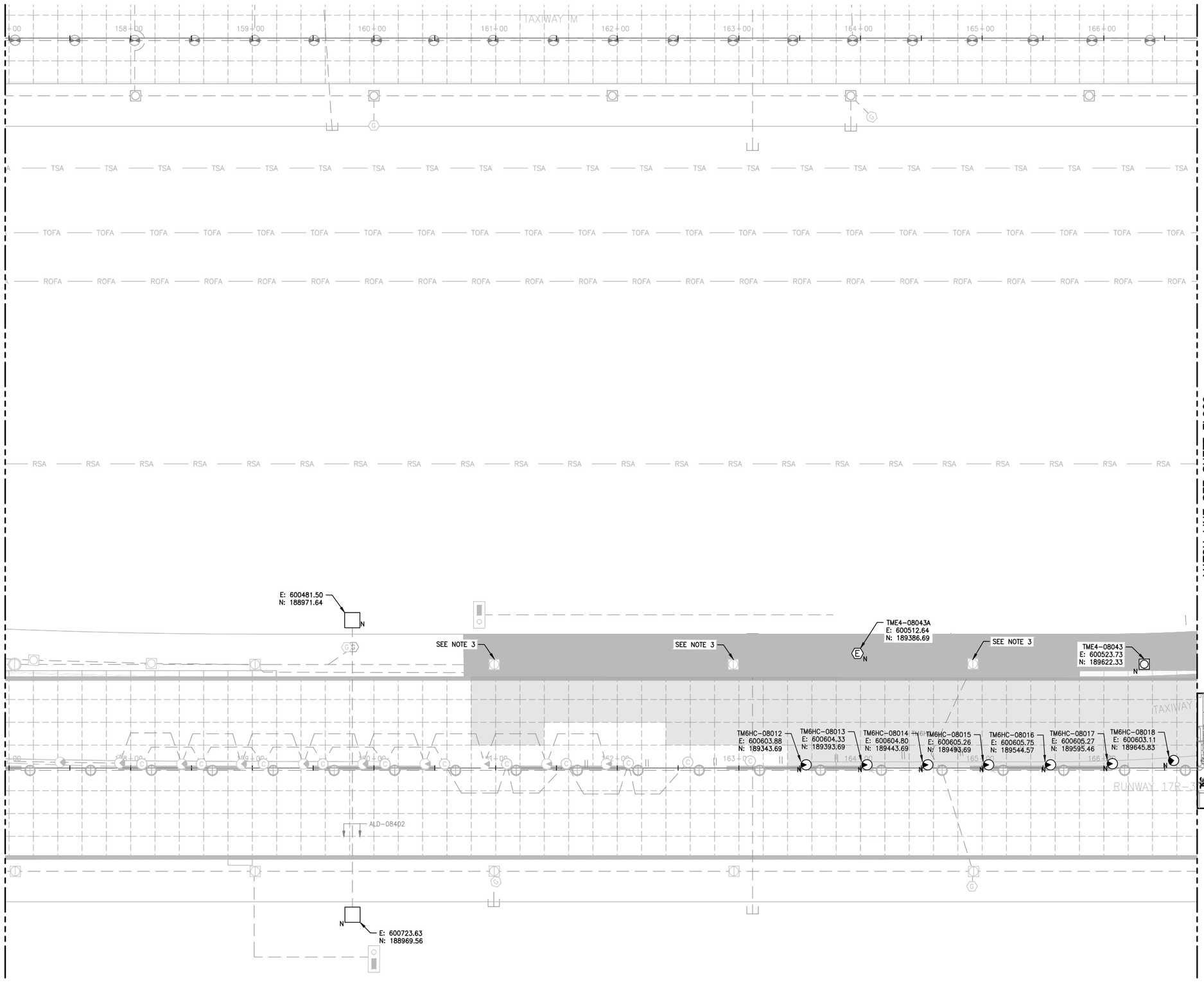
BASE CAN COORDINATE PLAN (7 OF 17)

SHEET NO. EL907



CADD FILE NO. _201735882-B1EELP-1356

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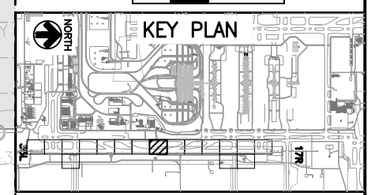



NOTES:

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3. FOR BASE CANS BEING INSTALLED IN (N) PANELS OTHER THAN M6 & NOT SHOWN HERE CONTRACTOR SHALL SURVEY EXISTING BASE CAN LOCATION PRIOR TO CONCRETE PANEL DEMOLITION. INSTALL (N) BASE CANS IN SAME LOCATION.

NORTH

40' 20' 0 40'




COLORADO LICENSED
TYRON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

BASE CAN COORDINATE PLAN (8 OF 17)

SHEET NO. EL908

368 OF 396

CADD FILE NO. _201735882-B1EELP-1356

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| TAXIWAY M6 GUARD BAR COORDINATES | |
|---|---|
| FIXTURE ID | COORDINATE |
| TM6SB1-08001 | E: 600199.65 N: 190474.05 |
| TM6SB1-08002 | E: 600218.15 N: 190484.77 |
| TM6SB1-08003 | E: 600226.31 N: 190489.38 |
| TM6SB1-08004 | E: 600234.47 N: 190493.99 |
| TM6SB1-08005 | E: 600242.63 N: 190498.60 |
| TM6SB1-08006 | E: 600250.80 N: 190503.22 |
| TM6SB1-08007 | E: 600258.96 N: 190507.83 |
| TM6SB1-08008 | E: 600267.12 N: 190512.44 |
| TM6SB1-08009 | E: 600275.28 N: 190517.05 |
| TM6SB1-08010 | E: 600283.46 N: 190521.67 |
| TM6SB1-08011 | E: 600291.61 N: 190526.28 |
| TM6SB1-08012 | E: 600299.77 N: 190530.89 |
| TM6SB1-08013 | E: 600307.93 N: 190535.50 |
| TM6SB1-08014 | E: 600322.72 N: 190543.63 |

NOTES:

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MATCH LINE SEE SHEET EL908

MATCH LINE SEE SHEET EL910



CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

BASE CAN COORDINATE PLAN (9 OF 17)

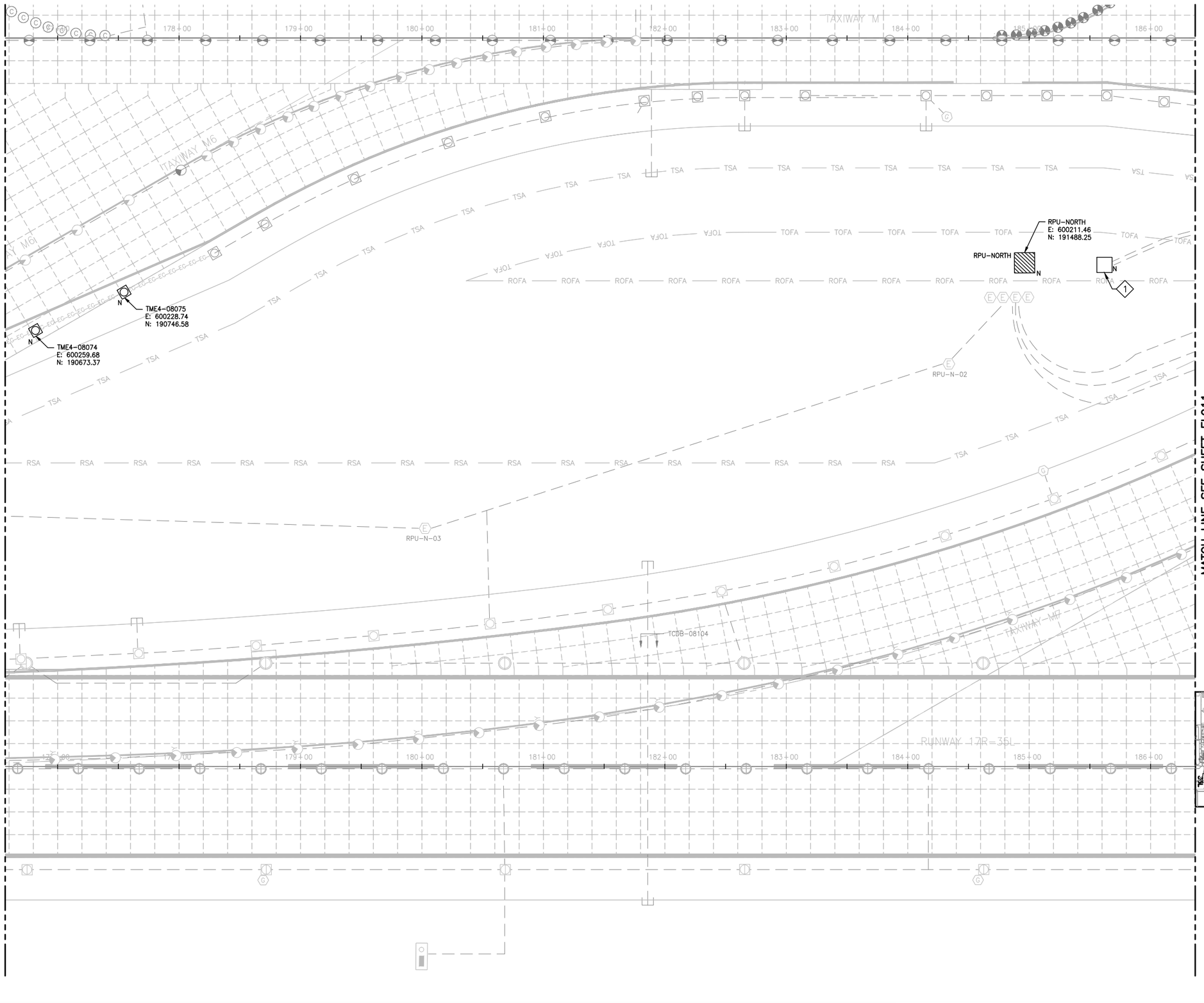
SHEET NO. EL909

369 OF 396

CADD FILE NO. _201735882-B1EELP-1356

COLORADO LICENSED DIXON LEAN 52246 2/15/19 PROFESSIONAL ENGINEER

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NOTES:

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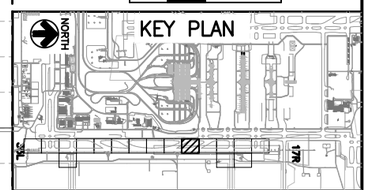
KEY NOTES:

1. NEW HANDHOLE LOCATION MUST BE FIELD VERIFIED AND APPROVED BY AIRPORT ENGINEER.

NORTH

40' 20' 0 40'

KEY PLAN



COLORADO LICENSED
CARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

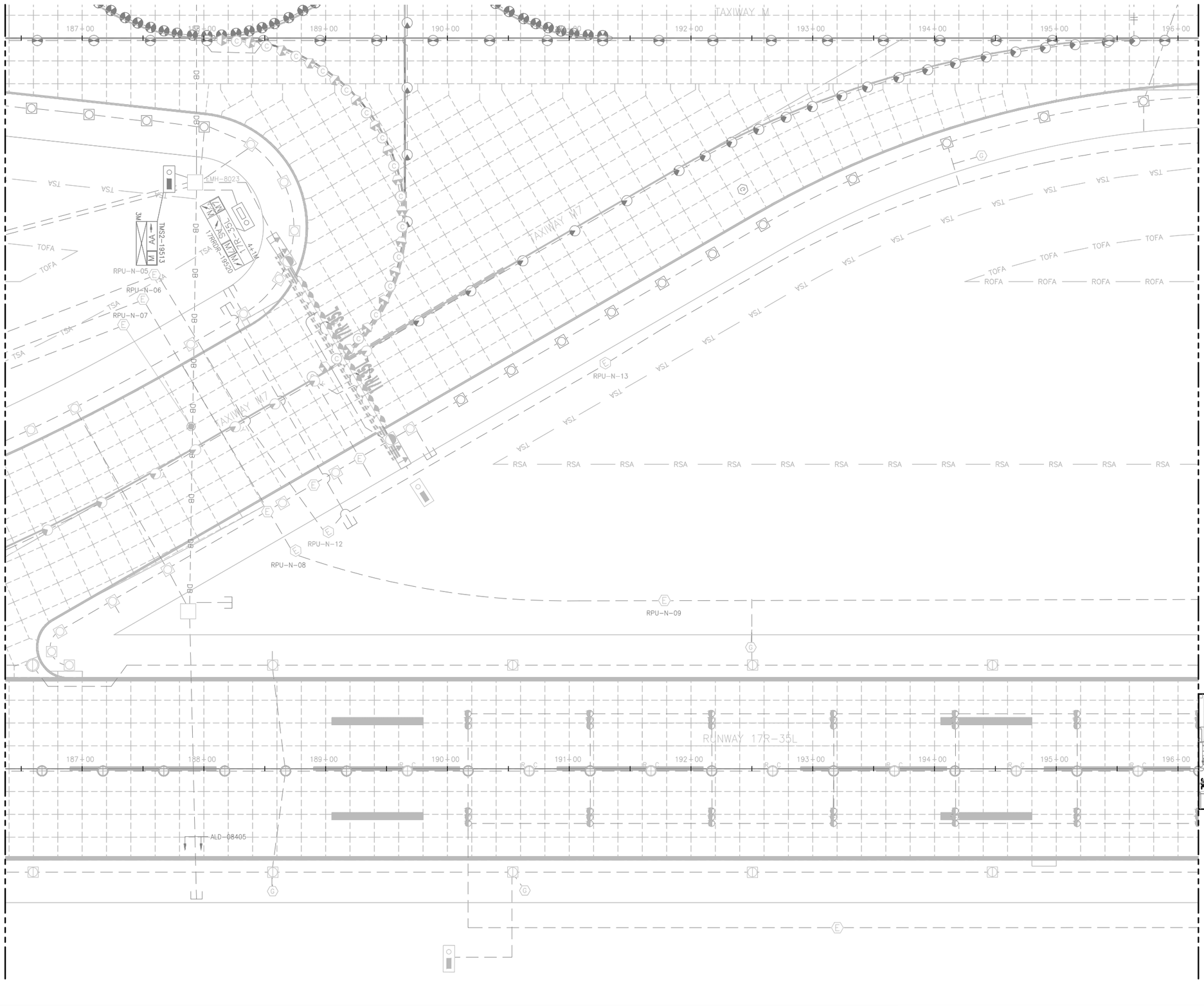
SHEET TITLE

BASE CAN COORDINATE PLAN (10 OF 17)

SHEET NO. EL910 370 OF 396

CADD FILE NO. _201735882-B1EELP-1356

D:\dropbox (lean photometrics)\active projects\16718\01a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELP-1356.dwg Feb 12, 2019 - 5:37pm Kat



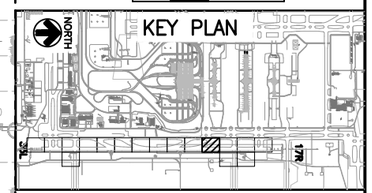

NOTES:

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NORTH

40' 20' 0 40'

KEY PLAN



COLORADO LICENSED
CARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE
AS INDICATED

DATE
FEBRUARY 15, 2019

DRAWN BY:
KV

CHECKED BY:
JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO.
201735882

CONST. CONTRACT NO.
201846271

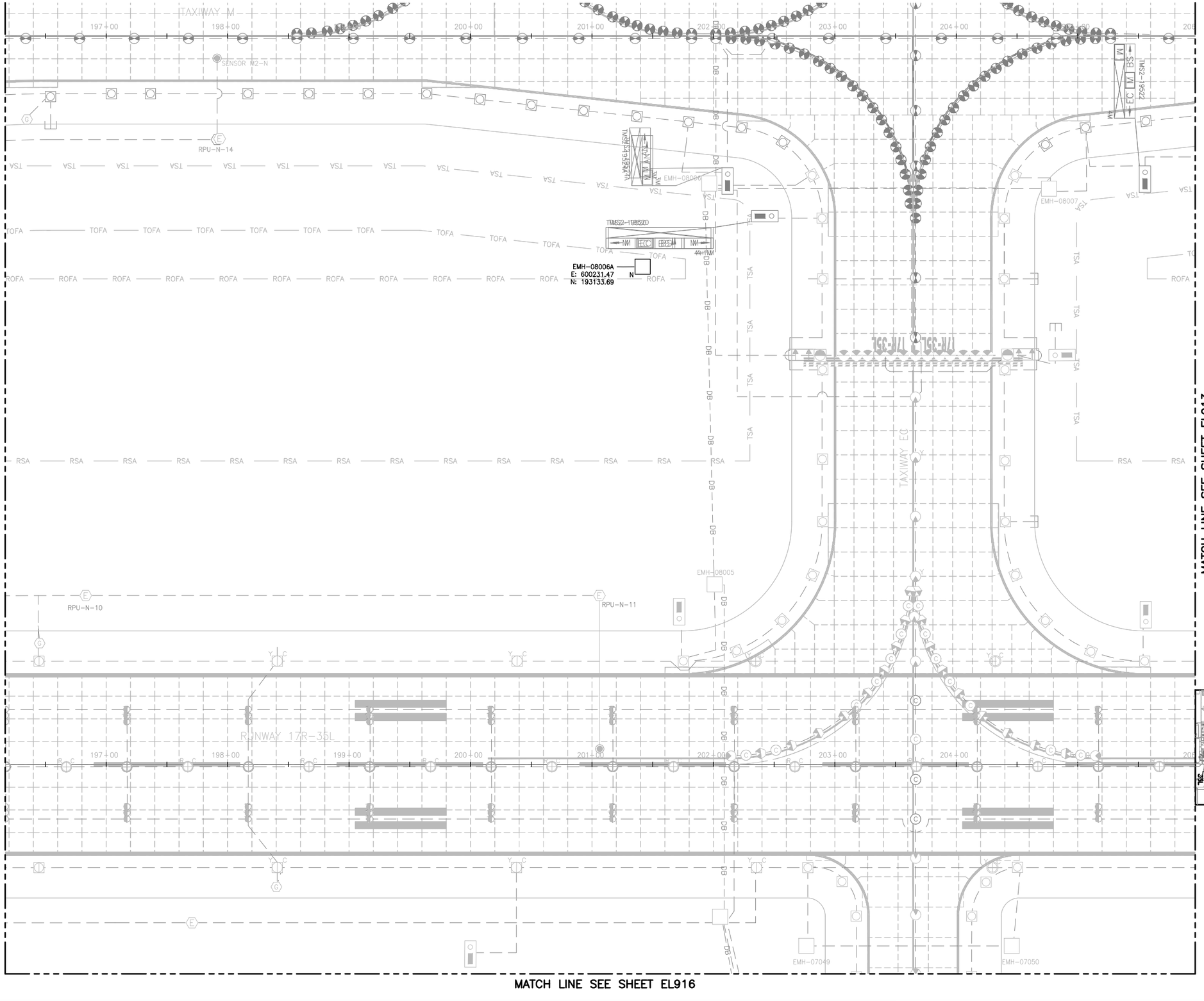
VOLUME NO.

SHEET TITLE
BASE CAN COORDINATE PLAN (11 OF 17)

SHEET NO.
EL911
371 OF 396

CADD FILE NO.
_201735882-B1EELP-1356

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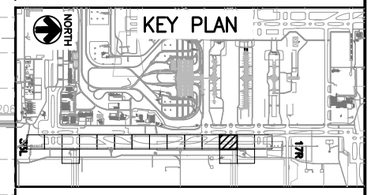

NOTES:

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NORTH

40' 20' 0 40'

KEY PLAN



COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

BASE CAN COORDINATE PLAN (12 OF 17)

SHEET NO. EL912 372 OF 396

CADD FILE NO. _201735882-B1EELP-1356

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KEY NOTES:

1. NEW HANDHOLE LOCATION MUST BE FIELD VERIFIED AND APPROVED BY AIRPORT ENGINEER.

MATCH LINE SEE SHEET EL912

MATCH LINE SEE SHEET EL914

MATCH LINE SEE SHEET EL917

TAXIWAY M

RUNWAY 17R-35L

TMS2-19526

EMH-08015

M | M9 | BN | M

4+1M

NORTH I/O CABINET
E: 600246.83
N: 194340.36

CCTV#2
E: 600242.03
N: 194382.75

TCDB-08009

TCDB-08406

ALD-08406

TCDB-08005

TMH-08006

NORTH

40' 20' 0 40'

KEY PLAN

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

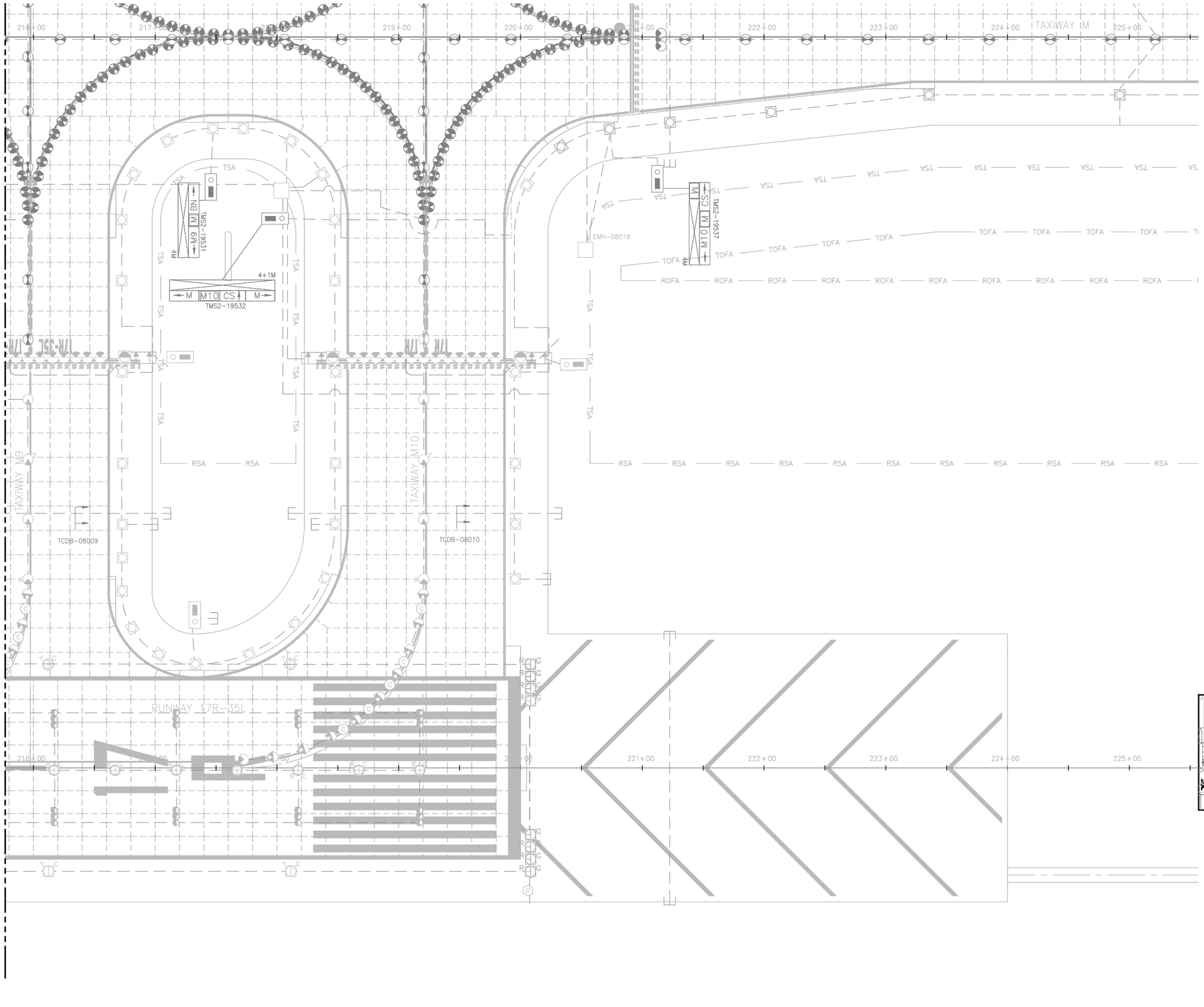
BASE CAN COORDINATE PLAN (13 OF 17)

SHEET NO. EL913
373 OF 396

CADD FILE NO. _201735882-B1EELP-1356

COLORADO LICENSED
TODD RON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

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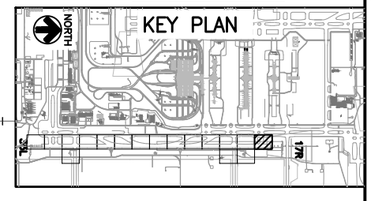

NOTES:

1. THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. NO WORK IS REQUIRED.

NORTH

40' 20' 0 40'

KEY PLAN



COLORADO LICENSED
TARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

BASE CAN COORDINATE PLAN (14 OF 17)

SHEET NO. EL914

374 OF 396

CADD FILE NO. _201735882-B1EELP-1356

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MATCH LINE SEE SHEET EL903

RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA

FAA-222 FAA-221

FAADUCT BANK E 94075

TAXIWAY EA

35L-17R 35L-17R

ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA

TSA TOFA

NOTES:

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NORTH

40' 20' 0 40'

KEY PLAN

NORTH

35L 17R

COLORADO LICENSED
EDRON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE
AS INDICATED

DATE
FEBRUARY 15, 2019

DRAWN BY:
LEAN

CHECKED BY:
JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO.
201735882

CONST. CONTRACT NO.
201846271

VOLUME NO.

SHEET TITLE
BASE CAN COORDINATE PLAN (15 OF 17)

SHEET NO.
EL915
375 OF 396

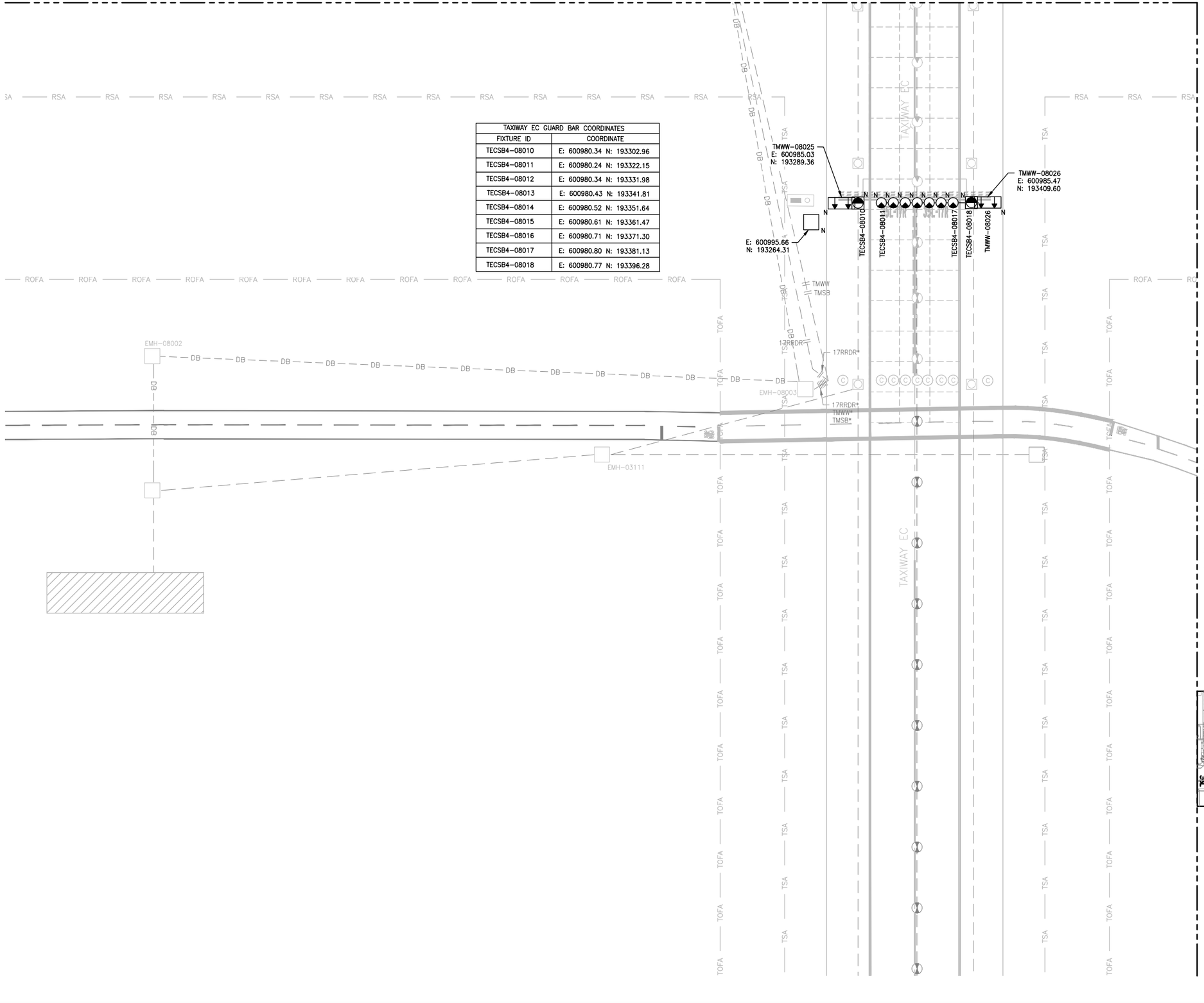
CADD FILE NO.
_201735882-B1EELP-1356

Feb 12, 2019 – 5:38pm Kat

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MATCH LINE SEE SHEET EL912

| TAXIWAY EC GUARD BAR COORDINATES | |
|---|---|
| FIXTURE ID | COORDINATE |
| TECSB4-08010 | E: 600980.34 N: 193302.96 |
| TECSB4-08011 | E: 600980.24 N: 193322.15 |
| TECSB4-08012 | E: 600980.34 N: 193331.98 |
| TECSB4-08013 | E: 600980.43 N: 193341.81 |
| TECSB4-08014 | E: 600980.52 N: 193351.64 |
| TECSB4-08015 | E: 600980.61 N: 193361.47 |
| TECSB4-08016 | E: 600980.71 N: 193371.30 |
| TECSB4-08017 | E: 600980.80 N: 193381.13 |
| TECSB4-08018 | E: 600980.77 N: 193396.28 |




NOTES:

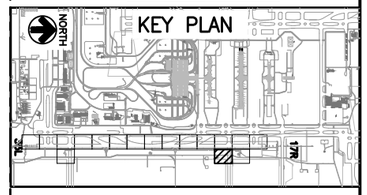
1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.
2. THESE DRAWINGS PROVIDE (N) COORDINATES FOR (N) BASE CANS ON T/W M6, (N) HANDHOLES, & OTHER ELECTRICAL STRUCTURES.
3. FOR BASE CANS BEING INSTALLED IN (N) PANELS OTHER THAN M6 & NOT SHOWN HERE CONTRACTOR SHALL SURVEY EXISTING BASE CAN LOCATION PRIOR TO CONCRETE PANEL DEMOLITION. INSTALL (N) BASE CANS IN SAME LOCATION.

MATCH LINE SEE SHEET EL917

NORTH

40' 20' 0 40'

KEY PLAN




COLORADO LICENSED
AARON LEAN
52246
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DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

BASE CAN COORDINATE PLAN (16 OF 17)

SHEET NO. EL916

376 OF 396

CADD FILE NO. _201735882-B1EELP-1356

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MATCH LINE SEE SHEET EL913

RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA RSA

E: 600900.65
N: 193983.28

TCDB-08408

TMH-08007

TCDB-08204

ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA ROFA

PRIMARY WINDCONE
E: 601051.79
N: 193704.42

MATCH LINE SEE SHEET EL916

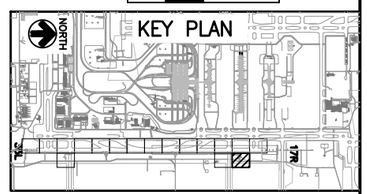
NOTES:

1. SEE SHEETS E-001 FOR GENERAL ELECTRICAL NOTES.
2. THESE DRAWINGS PROVIDE (N) COORDINATES FOR (N) BASE CANS ON T/W M6, (N) HANDHOLES, & OTHER ELECTRICAL STRUCTURES.
3. FOR BASE CANS BEING INSTALLED IN (N) PANELS OTHER THAN M6 & NOT SHOWN HERE CONTRACTOR SHALL SURVEY EXISTING BASE CAN LOCATION PRIOR TO CONCRETE PANEL DEMOLITION. INSTALL (N) BASE CANS IN SAME LOCATION.

NORTH

40' 20' 0 40'

KEY PLAN




COLORADO LICENSED
CAMERON LEAN
52246
2/15/19
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CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE
AS INDICATED

DATE
FEBRUARY 15, 2019

DRAWN BY:
KV

CHECKED BY:
JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO.
201735882

CONST. CONTRACT NO.
201846271

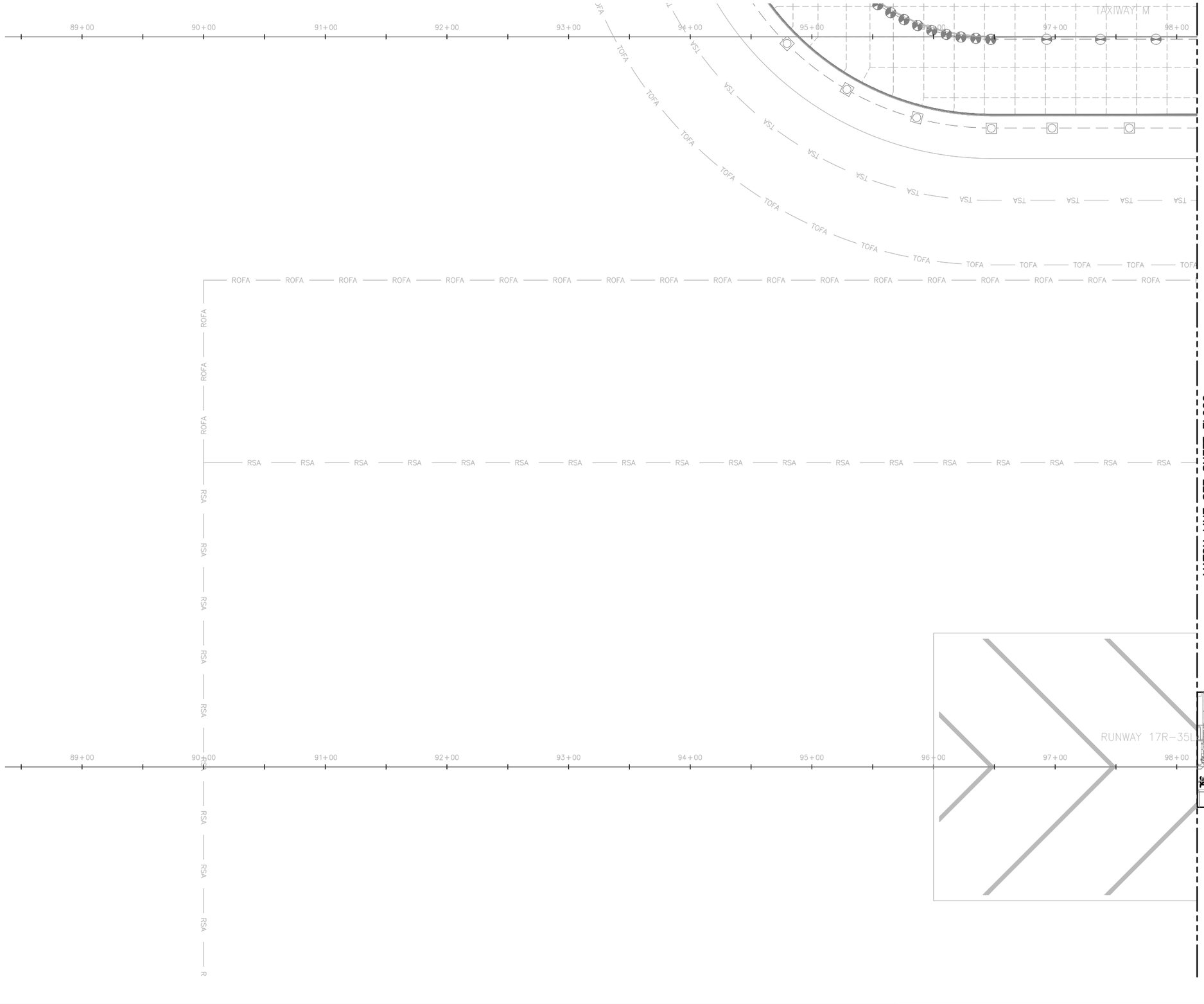
VOLUME NO.

SHEET TITLE
BASE CAN COORDINATE PLAN (17 OF 17)

SHEET NO.
EL917
377 OF 396

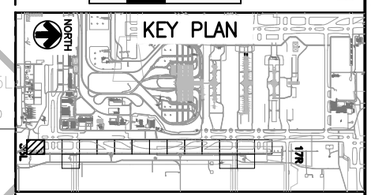
CADD FILE NO.
_201735882-B1EELP-1356

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NOTES:

1. THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. NO WORK IS REQUIRED.




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52246
2/15/19
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LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

SIGNAGE PLAN (1 OF 17)

SHEET NO. EL921



CADD FILE NO. _201735882-B1EELP-1356

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MATCH LINE SEE SHEET EL921

MATCH LINE SEE SHEET EL923

SIGN ID: 17RMDT-19501
SIGN COORDINATE: EXISTING
NEAREST EDGE T/W: EXISTING
CIRCUIT: 17RMDT
SIGN STYLE: 5
FOUNDATION: EXISTING
INSTALL NEW BIRD SPIKES AND DADDI LONG LEGS PER DETAIL 2 ON SHEET EL938.

SIGN ID: 17RMDT-19502
SIGN COORDINATE: (EAST)600215.00, (NORTH)183468.14
NEAREST EDGE T/W: (EAST)600214.55, (NORTH)183419.19
CIRCUIT: 17RMDT
SIGN STYLE: 5
FOUNDATION: NEW
INSTALL NEW BIRD SPIKES PER DETAIL 1 ON SHEET EL938.

SIGN ID: TMS1-19504
SIGN COORDINATE: EXISTING
NEAREST EDGE T/W: EXISTING
CIRCUIT: TMS1
SIGN STYLE: 5
FOUNDATION: EXISTING
ANGLE OF ARROW: 90°
INSTALL NEW BIRD SPIKES PER DETAIL 1 ON SHEET EL938.

SIGN ID: TMS1-19506
SIGN COORDINATE: EXISTING
NEAREST EDGE T/W: EXSITING
CIRCUIT: TMS1
SIGN STYLE: 5
FOUNDATION: EXISTING
ANGLE OF ARROW: 90°
INSTALL NEW BIRD SPIKES AND DADDI LONG LEGS PER DETAIL 2 ON SHEET EL938.

NOTES:

1. SIGN LENGTHS MAY VARY DEPENDING ON MANUFACTURER.
2. CONFIRM LENGTH WITH MANUFACTURER PRIOR TO BID AND ADJUST FOUNDATION ACCORDINGLY.
3. PROVIDE UTILITY LOCATION & POT-HOLING OF LOCATION OF NEW SIGN. SURVEY RESULTS.
4. PROVIDE SHOP DRAWING SHOWING LOCATION OF PROPOSED SIGN & SURVEYED UTILITIES. OBTAIN APPROVAL FROM DENVER PROJECT MANAGER, PRIOR TO EXCAVATION.
5. BLUE STAKE THE 4 CORNERS OF SIGN AND FOUNDATION AND DEFINED EDGE OF T/W TO OBTAIN ENGINEER'S APPROVAL PRIOR TO EXCAVATION. THIS APPLIES TO ALL NEW SIGNS.
6. THE DESIGNATIONS OF SIGNS TO BE INSTALLED ARE:

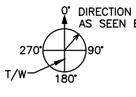
   R = LIGHTED MANDATORY SIGN (WHITE LEGEND ON RED BACKGROUND)

   L = LIGHTED TAXIWAY AND RUNWAY LOCATION SIGN (YELLOW LEGEND AND BORDER ON BLACK BACKGROUND)

   Y = LIGHTED DIRECTION, DESTINATION & BOUNDARY SIGNS (BLACK LEGEND ON YELLOW BACKGROUND)

   B = LIGHTED RUNWAY DISTANCE REMAINING SIGN (WHITE LEGEND ON BLACK BACKGROUND)

7. THE ANGLE OF THE ARROW OF THE SIGN IS GIVEN ACCORDING TO THE BELOW CONVENTION. ANGLE IN PARENTHESIS DENOTES ARROW ANGLE IF NOT 0°, 90°, 180°, OR 270°.

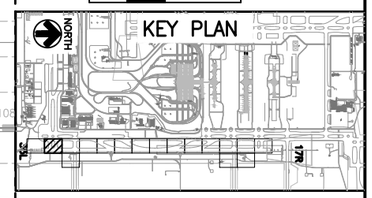



8. ACTUAL NUMBER OF MODULES/WIDTH TO BE USED FOR EACH SIGN WILL BE DETERMINED BY SIGN MANUFACTURER.
   1M = 1 MODULE
   2M = 2 MODULES
   3M = 3 MODULES
   4M = 4 MODULES
9. SIGN COORDINATE IS DEFINED AS THE COORDINATE TO THE NEAREST EDGE OF SIGN AND NOT BASE CAN AND NOT FOUNDATION.
10. SIGN LOCATION & ALIGNMENT:
    INSTALL SIGN SO THAT IT IS IN LINE WITH AN IMAGINARY LINE STRETCHING BETWEEN SIGN COORDINATE & DEFINED EDGE OF TAXIWAY. LOCATION SHALL BE SO THAT THE SIGN COORDINATE IS AT THE NEAREST EDGE OF SIGN.
11. SIGN CHARACTERISTICS:
    - ALL NEW SIGNS SHALL BE LED.
    - RDR SIGNS MUST BE SIZE 4
    - ALL OTHER GUIDANCE SIGNS MUST BE SIZE 3.
    - SIGNS MUST BE MODE 2.
12. INSTALL BIRD ABATEMENT PROTECTION ON SIGNS WITH DESIGNATION AS SHOWN. COST FOR BIRD ABATEMENT SHALL BE BID UNDER BID ITEM L-128.

40' 20' 0 40'

NORTH

KEY PLAN




COLORADO LICENSED
DIXON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE

SIGNAGE PLAN (2 OF 17)

SHEET NO. EL922
379 OF 396

CADD FILE NO. _201735882-B1EELP-1356

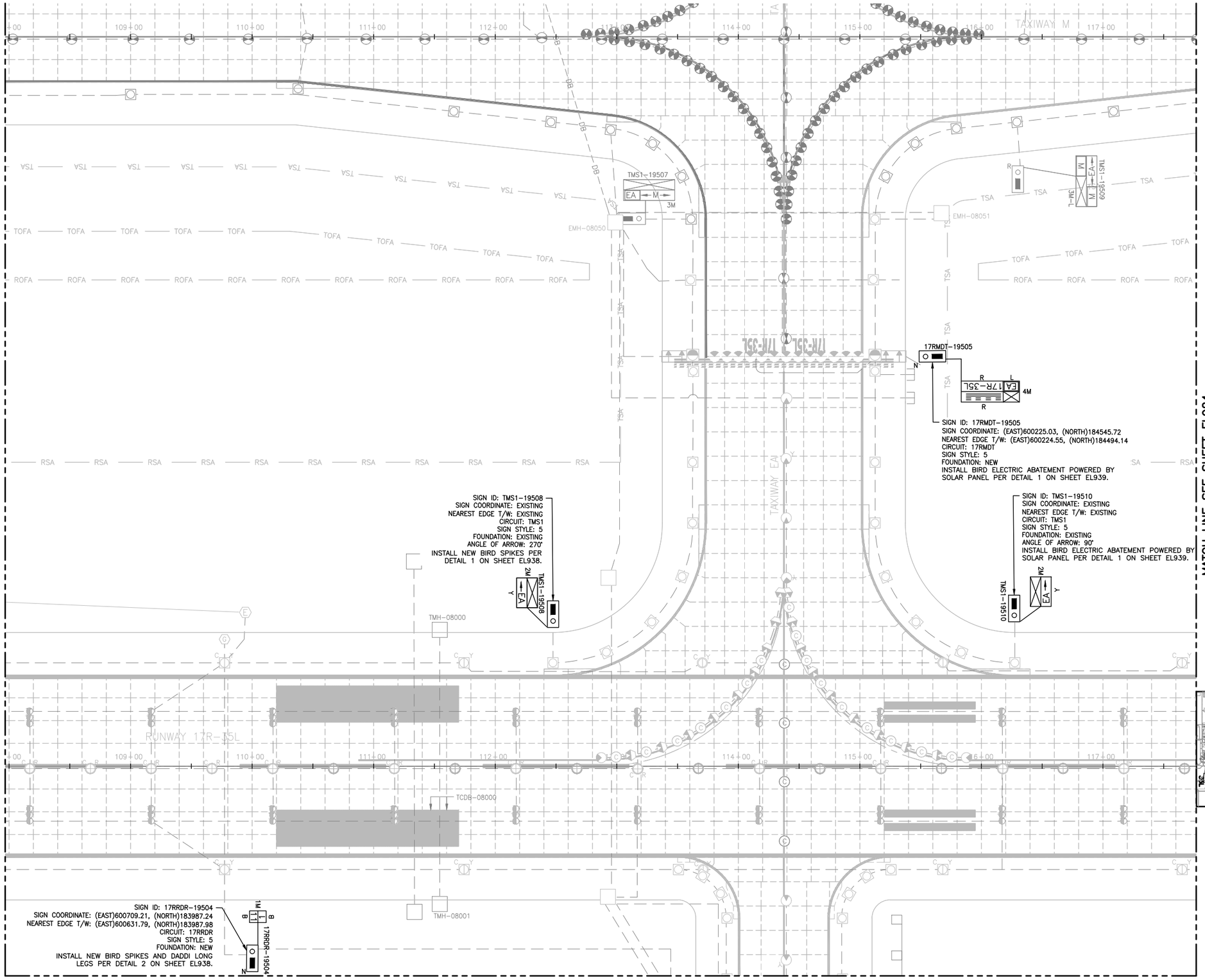
D:\dropbox (lean photometrics)\active projects\1517801a rsh den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELP-1356.dwg Feb 12, 2019 - 5:39pm Kat

D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\sheets_201735882-B1EELP-1356.dwg Feb 12, 2019 - 5:39pm Kat

MATCH LINE SEE SHEET EL922

MATCH LINE SEE SHEET EL924

MATCH LINE SEE SHEET EL935




NOTES:

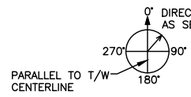
1. SIGN LENGTHS MAY VARY DEPENDING ON MANUFACTURER.
2. CONFIRM LENGTH WITH MANUFACTURER PRIOR TO BID AND ADJUST FOUNDATION ACCORDINGLY.
3. PROVIDE UTILITY LOCATION & POT-HOLING OF LOCATION OF NEW SIGN. SURVEY RESULTS.
4. PROVIDE SHOP DRAWING SHOWING LOCATION OF PROPOSED SIGN & SURVEYED UTILITIES. OBTAIN APPROVAL FROM DENVER PROJECT MANAGER, PRIOR TO EXCAVATION.
5. BLUE STAKE THE 4 CORNERS OF SIGN AND FOUNDATION AND DEFINED EDGE OF T/W TO OBTAIN ENGINEER'S APPROVAL PRIOR TO EXCAVATION. THIS APPLIES TO ALL NEW SIGNS.
6. THE DESIGNATIONS OF SIGNS TO BE INSTALLED ARE:

   R = LIGHTED MANDATORY SIGN (WHITE LEGEND ON RED BACKGROUND)

   L = LIGHTED TAXIWAY AND RUNWAY LOCATION SIGN (YELLOW LEGEND AND BORDER ON BLACK BACKGROUND)

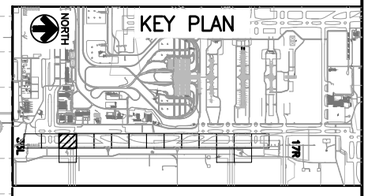
   Y = LIGHTED DIRECTION, DESTINATION & BOUNDARY SIGNS (BLACK LEGEND ON YELLOW BACKGROUND)

   B = LIGHTED RUNWAY DISTANCE REMAINING SIGN (WHITE LEGEND ON BLACK BACKGROUND)
7. THE ANGLE OF THE ARROW OF THE SIGN IS GIVEN ACCORDING TO THE BELOW CONVENTION. ANGLE IN PARENTHESIS DENOTES ARROW ANGLE IF NOT 0°, 90°, 180°, OR 270°.




8. ACTUAL NUMBER OF MODULES/WIDTH TO BE USED FOR EACH SIGN WILL BE DETERMINED BY SIGN MANUFACTURER.
   1M = 1 MODULE
   2M = 2 MODULES
   3M = 3 MODULES
   4M = 4 MODULES
9. SIGN COORDINATE IS DEFINED AS THE COORDINATE TO THE NEAREST EDGE OF SIGN AND NOT BASE CAN AND NOT FOUNDATION.
10. SIGN LOCATION & ALIGNMENT:
    INSTALL SIGN SO THAT IT IS IN LINE WITH AN IMAGINARY LINE STRETCHING BETWEEN SIGN COORDINATE & DEFINED EDGE OF TAXIWAY. LOCATION SHALL BE SO THAT THE SIGN COORDINATE IS AT THE NEAREST EDGE OF SIGN.
11. SIGN CHARACTERISTICS:
    - ALL NEW SIGNS SHALL BE LED.
    - RDR SIGNS MUST BE SIZE 4
    - ALL OTHER GUIDANCE SIGNS MUST BE SIZE 3.
    - SIGNS MUST BE MODE 2.
12. INSTALL BIRD ABATEMENT PROTECTION ON SIGNS WITH DESIGNATION AS SHOWN. COST FOR BIRD ABATEMENT SHALL BE BID UNDER BID ITEM L-128.




CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
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| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

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VOLUME NO.

SHEET TITLE

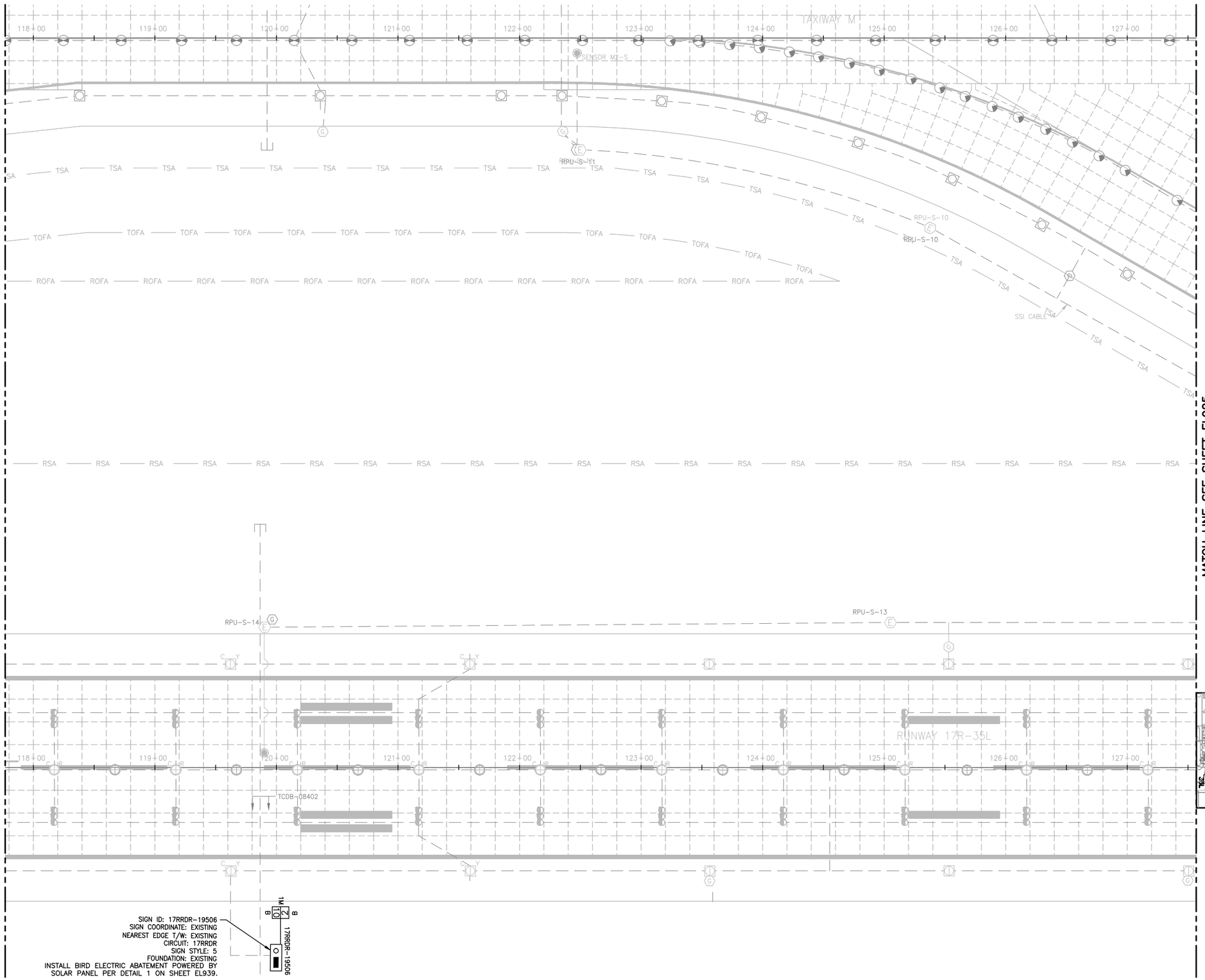
SIGNAGE PLAN (3 OF 17)

SHEET NO. EL923

380 OF 396

CADD FILE NO. _201735882-B1EELP-1356

COLORADO LICENSED
AARON LEAF
52246
2/15/19
PROFESSIONAL ENGINEER




NOTES:

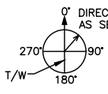
1. SIGN LENGTHS MAY VARY DEPENDING ON MANUFACTURER.
2. CONFIRM LENGTH WITH MANUFACTURER PRIOR TO BID AND ADJUST FOUNDATION ACCORDINGLY.
3. PROVIDE UTILITY LOCATION & POT-HOLING OF LOCATION OF NEW SIGN. SURVEY RESULTS.
4. PROVIDE SHOP DRAWING SHOWING LOCATION OF PROPOSED SIGN & SURVEYED UTILITIES. OBTAIN APPROVAL FROM DENVER PROJECT MANAGER, PRIOR TO EXCAVATION.
5. BLUE STAKE THE 4 CORNERS OF SIGN AND FOUNDATION AND DEFINED EDGE OF T/W TO OBTAIN ENGINEER'S APPROVAL PRIOR TO EXCAVATION. THIS APPLIES TO ALL NEW SIGNS.
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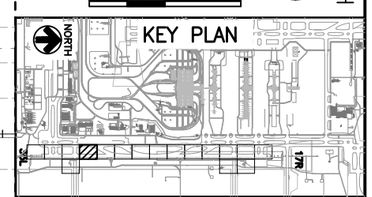



8. ACTUAL NUMBER OF MODULES/WIDTH TO BE USED FOR EACH SIGN WILL BE DETERMINED BY SIGN MANUFACTURER.
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   3M = 3 MODULES
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9. SIGN COORDINATE IS DEFINED AS THE COORDINATE TO THE NEAREST EDGE OF SIGN AND NOT BASE CAN AND NOT FOUNDATION.
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12. INSTALL BIRD ABATEMENT PROTECTION ON SIGNS WITH DESIGNATION AS SHOWN. COST FOR BIRD ABATEMENT SHALL BE BID UNDER BID ITEM L-128.

40' 20' 0 40'

NORTH

KEY PLAN




COLORADO LICENSED
AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

SIGNAGE PLAN (4 OF 17)

SHEET NO. EL924

381 OF 396

CADD FILE NO. _201735882-B1EELP-1356

D:\dropbox (lean photometrics)\active projects\1571801a rdn den 17r-35l reconstruction\01 drawings\working drawings\sheets_201735882-B1EELP-1356.dwg Feb 12, 2019 - 5:40pm Kat

D:\dropbox (lean photometrics)\active projects\1517801a rsh den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELP-1356.dwg Feb 12, 2019 – 5:40pm Kat

MATCH LINE SEE SHEET EL924

MATCH LINE SEE SHEET EL926

128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00 136+00 137+00

TAXIWAY M

TAXIWAY M4

TAXIWAY M4

TAXIWAY M4

RUNWAY 17R-35L

EMH-08044

EMH-08045

ALD-08401

RPU-S-12

RPU-S-09

RPU-S-08

RPU-S-07

RPU-S-04

RPU-S-05

RPU-S-06

TSA TOFA ROFA RSA CNR

56'

71'

SIGN ID: 17RMDT-19508
SIGN COORDINATE: (EAST)600343.89, (NORTH)185903.04
NEAREST EDGE T/W: (EAST)600296.09, (NORTH)185931.24
CIRCUIT: 17RMDT
SIGN STYLE: 5
FOUNDATION: NEW
ANGLE OF ARROW: 330° & 150°
INSTALL BIRD ELECTRIC ABATEMENT POWERED BY SOLAR PANEL PER DETAIL 1 ON SHEET EL939.

SIGN ID: 17RRDR-19507
SIGN COORDINATE: EXISTING
NEAREST EDGE T/W: EXISTING
CIRCUIT: 17RRDR
SIGN STYLE: 5
FOUNDATION: EXISTING
INSTALL NEW BIRD SPIKES PER DETAIL 1 ON SHEET EL938.

NOTES:

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4. PROVIDE SHOP DRAWING SHOWING LOCATION OF PROPOSED SIGN & SURVEYED UTILITIES. OBTAIN APPROVAL FROM DENVER PROJECT MANAGER, PRIOR TO EXCAVATION.
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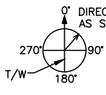
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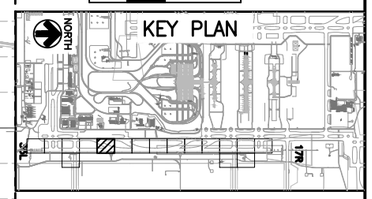



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40' 20' 0 40'

NORTH

KEY PLAN




COLORADO LICENSED
DIXON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

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SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

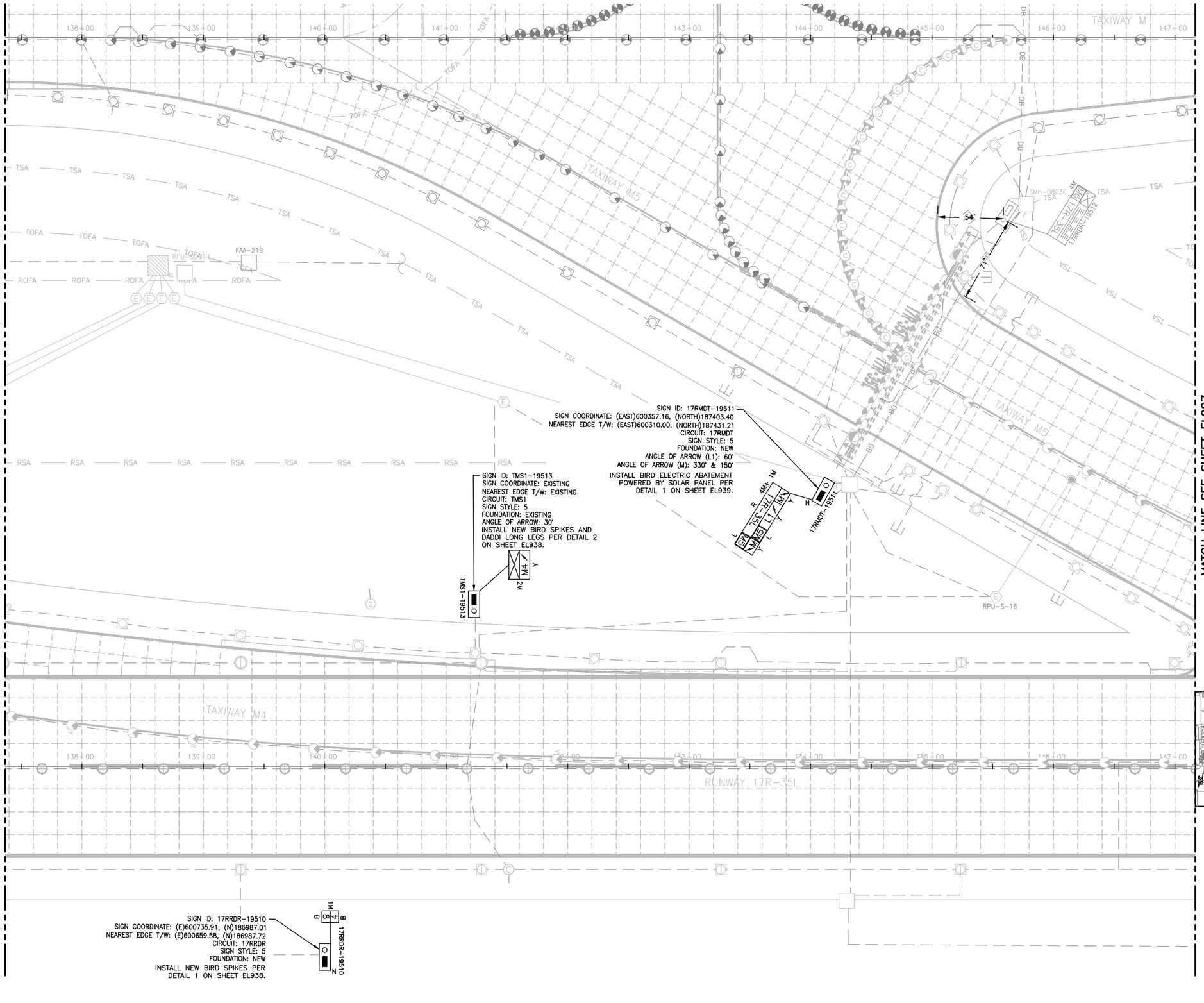
SHEET TITLE

SIGNAGE PLAN (5 OF 17)

SHEET NO. EL925

382 OF 396

CADD FILE NO. _201735882-B1EELP-1356




NOTES:

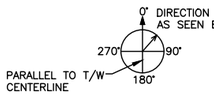
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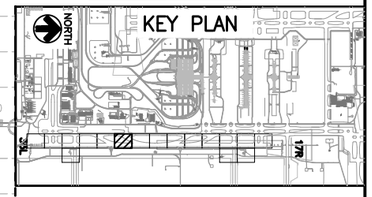



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NORTH

40' 20' 0 40'

KEY PLAN




COLORADO LICENSED
TARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

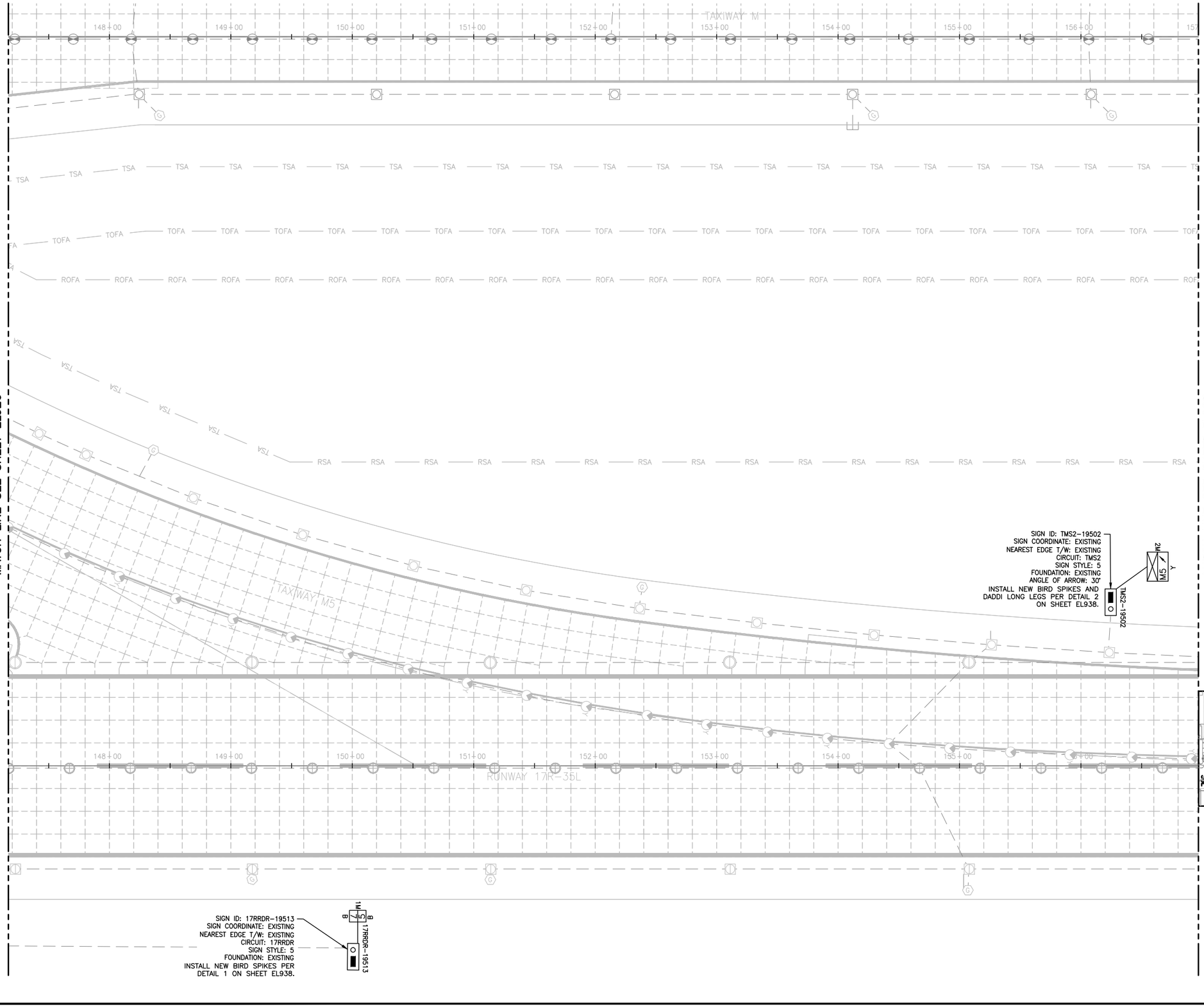
SHEET TITLE

SIGNAGE PLAN (6 OF 17)

SHEET NO. EL926 383 OF 396

CADD FILE NO. _201735882-B1EELP-1356

D:\Dropbox (ean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELP-1356.dwg Feb 12, 2019 - 5:40pm Kat




NOTES:

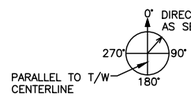
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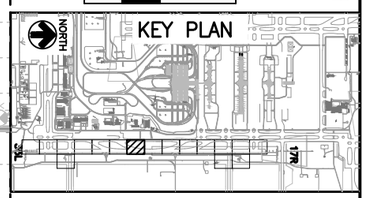
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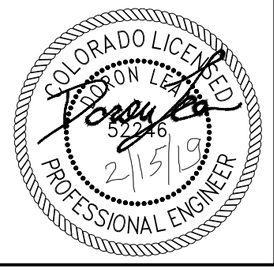
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KEY PLAN




CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

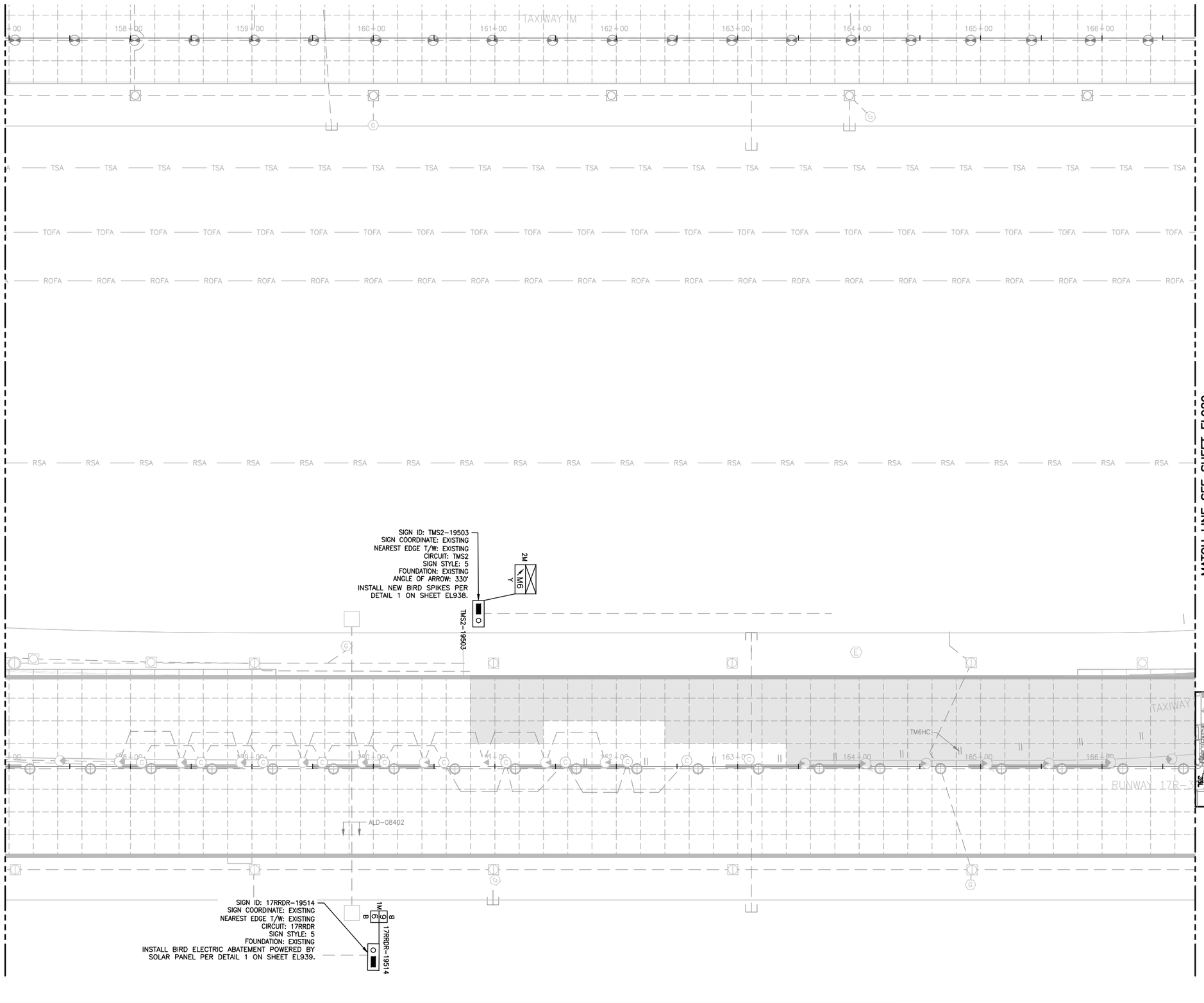
SIGNAGE PLAN (7 OF 17)

SHEET NO. EL927

384 OF 396

CADD FILE NO. _201735882-B1EELP-1356

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NOTES:

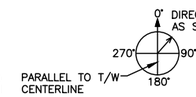
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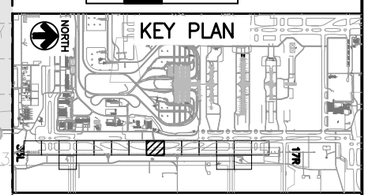
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AARON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

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LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

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FAA AIP NO:

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VOLUME NO.

SHEET TITLE

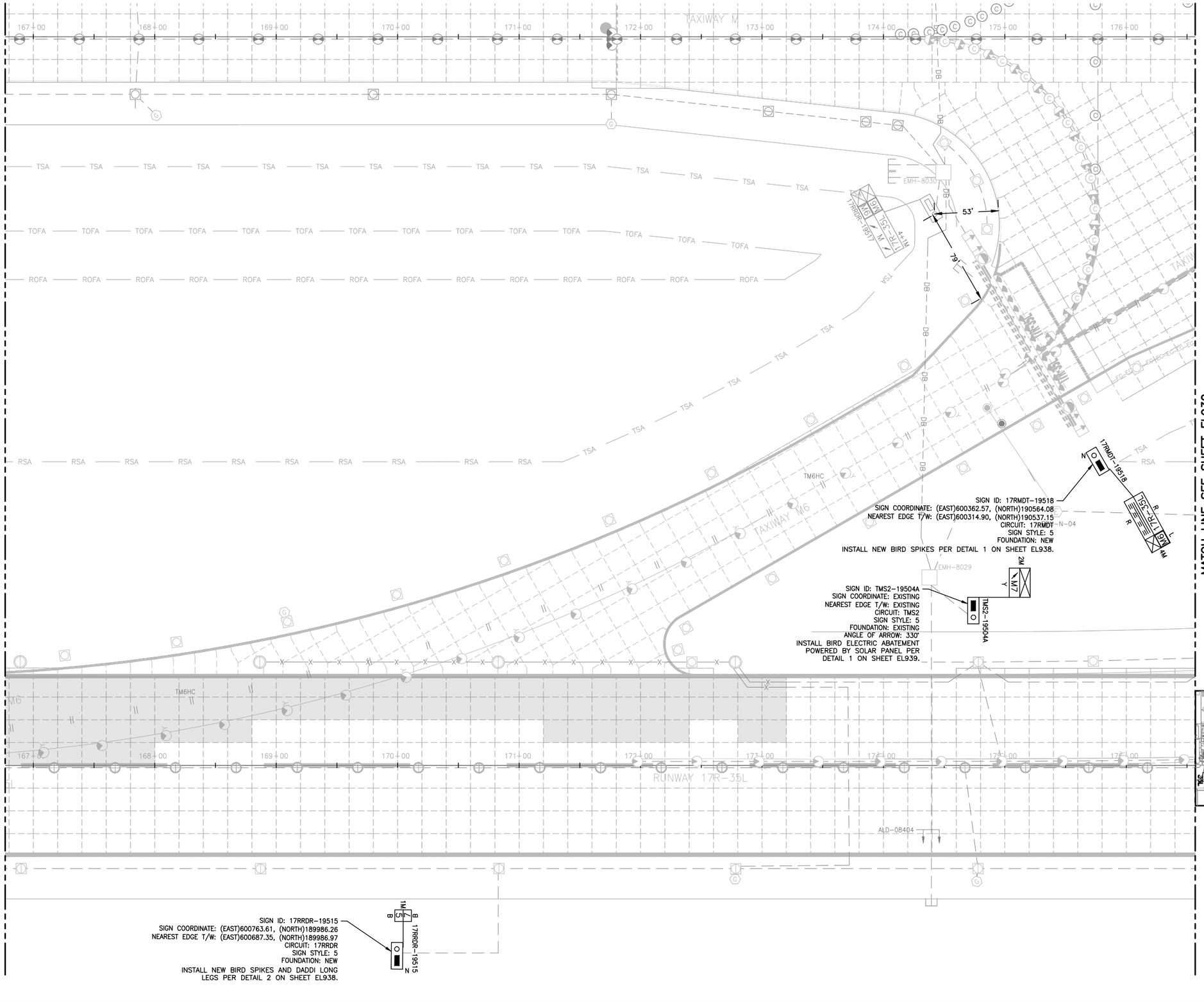
SIGNAGE PLAN (8 OF 17)

SHEET NO. EL928



CADD FILE NO. _201735882-B1EELP-1356

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NOTES:

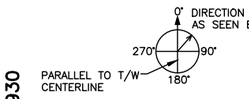
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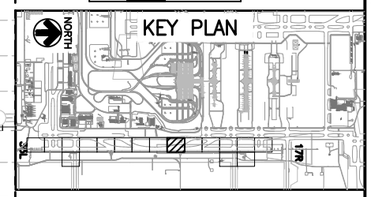
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KEY PLAN







CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

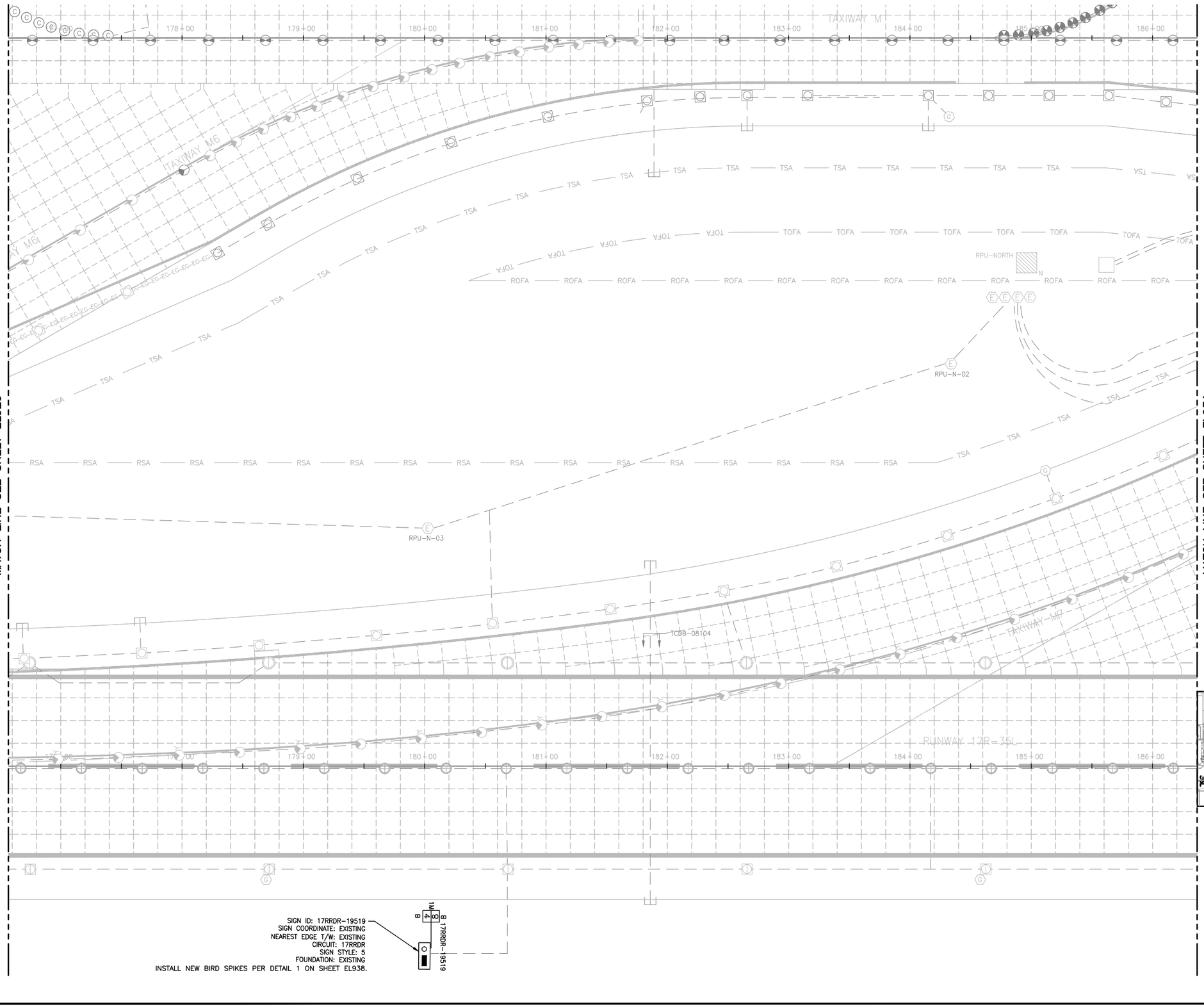
SIGNAGE PLAN (9 OF 17)

SHEET NO. EL929

386 OF 396

CADD FILE NO. _201735882-B1EELP-1356

D:\Dropbox (lean photometrics)\active projects\1517801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELP-1356.dwg Feb 12, 2019 - 5:41pm Kat




NOTES:

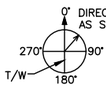
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PARALLEL TO T/W CENTERLINE

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COLORADO LICENSED
HURON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

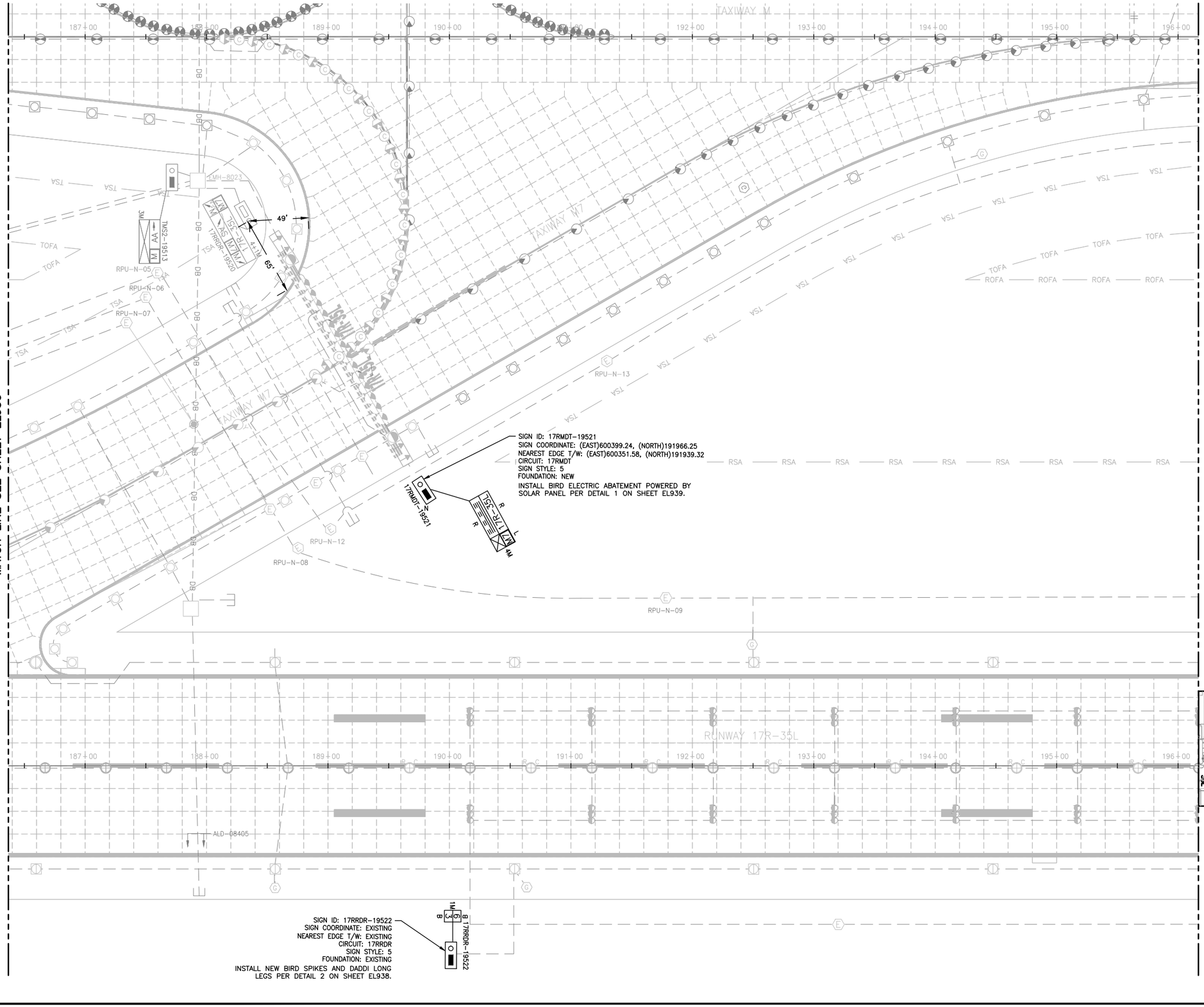
SIGNAGE PLAN (10 OF 17)

SHEET NO. EL930

387 OF 396

CADD FILE NO. _201735882-B1EELP-1356

D:\Dropbox (lean photomatrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELP-1356.dwg Feb 12, 2019 - 5:41pm Kat




NOTES:

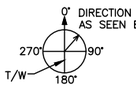
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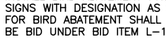
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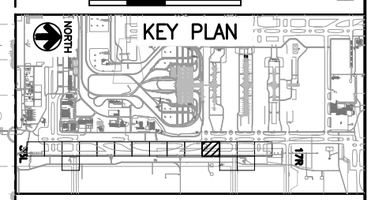
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COLORADO LICENSED
CHERON LEAN
52246
2/15/19
PROFESSIONAL ENGINEER

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DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

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DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

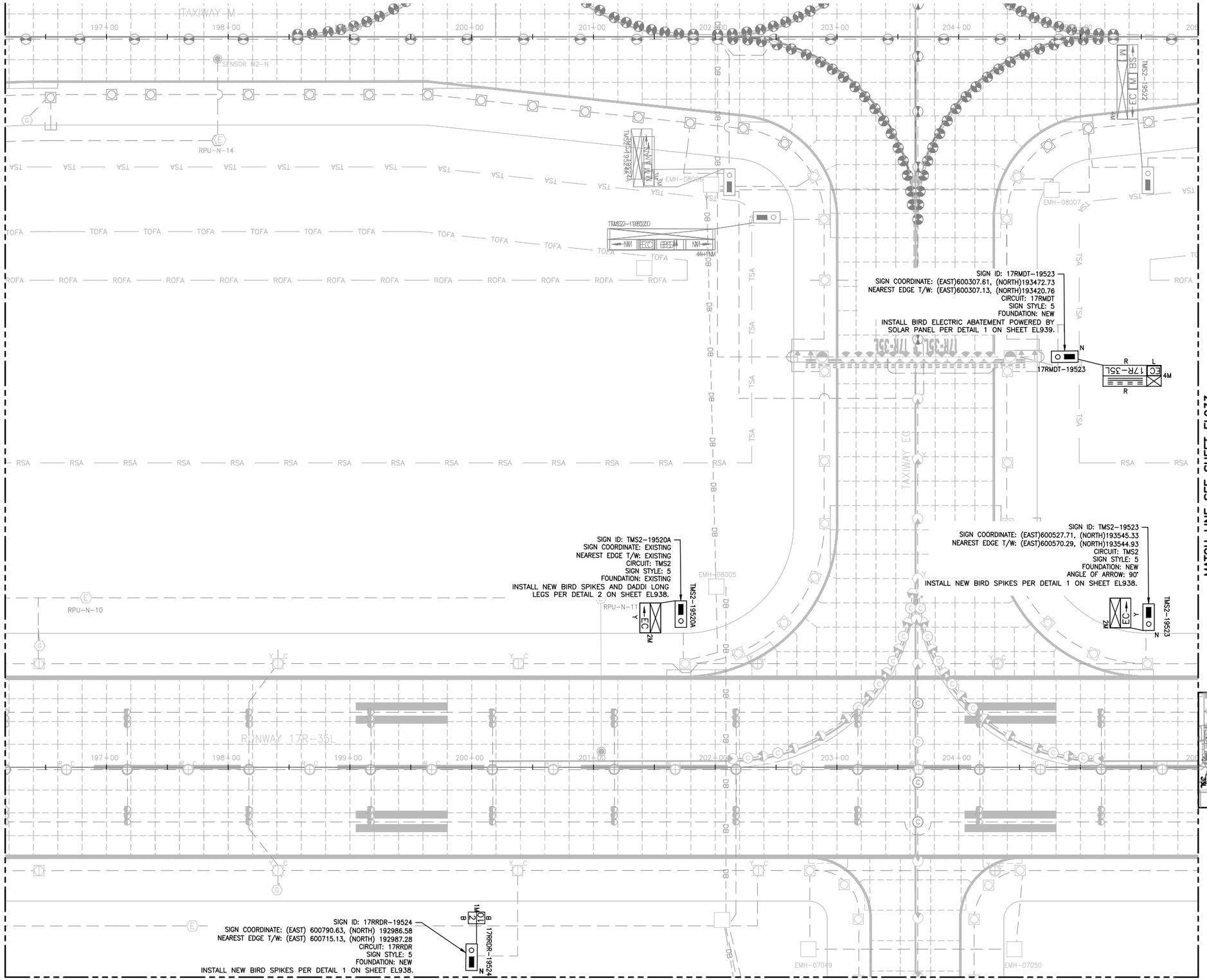
SIGNAGE PLAN (11 OF 17)

SHEET NO. EL931

388 OF 396

CADD FILE NO. _201735882-B1EELP-1356

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NOTES:

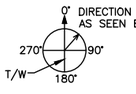
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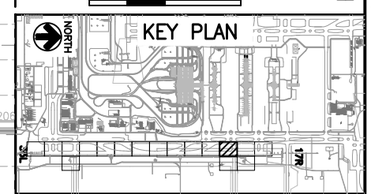
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KEY PLAN




COLORADO LICENSED
AARON LEAF
52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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|---|---|---|---|---|
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SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

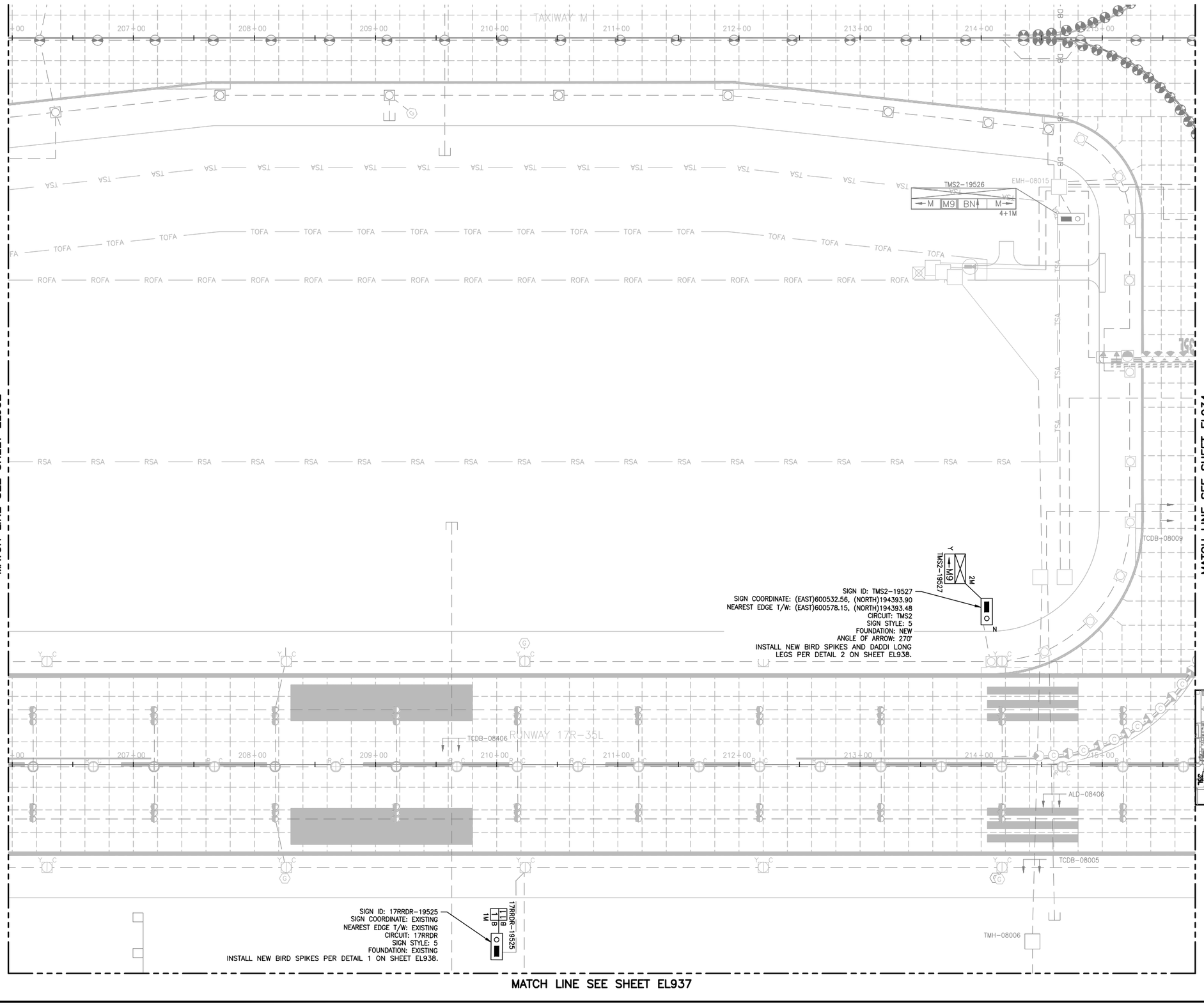
SHEET TITLE: SIGNAGE PLAN (12 OF 17)

SHEET NO. EL932
389 OF 396

CADD FILE NO. _201735882-B1EELP-1356

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NOTES:

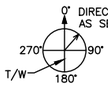
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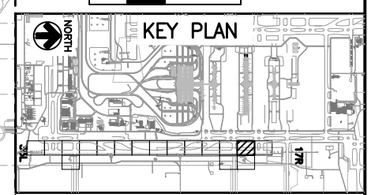
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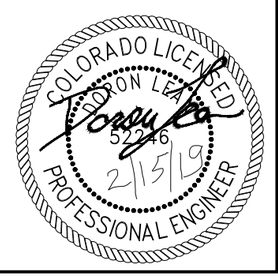
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CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

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|---|---|---|---|---|
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| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE: SIGNAGE PLAN (13 OF 17)

SHEET NO. EL933
390 OF 396

CADD FILE NO. _201735882-B1EELP-1356

MATCH LINE SEE SHEET EL933

SIGN ID: 17RMDT-19526
SIGN COORDINATE: (EAST)600318.89, (NORTH)194706.12
NEAREST EDGE T/W: (EAST)600318.40, (NORTH)194653.91
CIRCUIT: 17RMDT
SIGN STYLE: 5
FOUNDATION: NEW
INSTALL BIRD ELECTRIC ABATEMENT POWERED BY SOLAR PANEL PER DETAIL 1 ON SHEET EL939.

SIGN ID: 17RMDT-19527
SIGN COORDINATE: EXISTING
NEAREST EDGE T/W: EXISTING
CIRCUIT: 17RMDT
SIGN STYLE: 5
FOUNDATION: EXISTING
INSTALL NEW BIRD SPIKES AND DADDI LONG LEGS PER DETAIL 2 ON SHEET EL938.

SIGN ID: TMS2-19533
SIGN COORDINATE: (E)600536.24, (N)194721.90
NEAREST EDGE T/W: (E)600581.19, (N)194721.48
CIRCUIT: TMS2
SIGN STYLE: 5
FOUNDATION: EXISTING
ANGLE OF ARROW: 270°
INSTALL NEW BIRD SPIKES PER DETAIL 1 ON SHEET EL938.

NOTES:

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NORTH

40' 20' 0 40'

KEY PLAN

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

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VOLUME NO.
SHEET TITLE

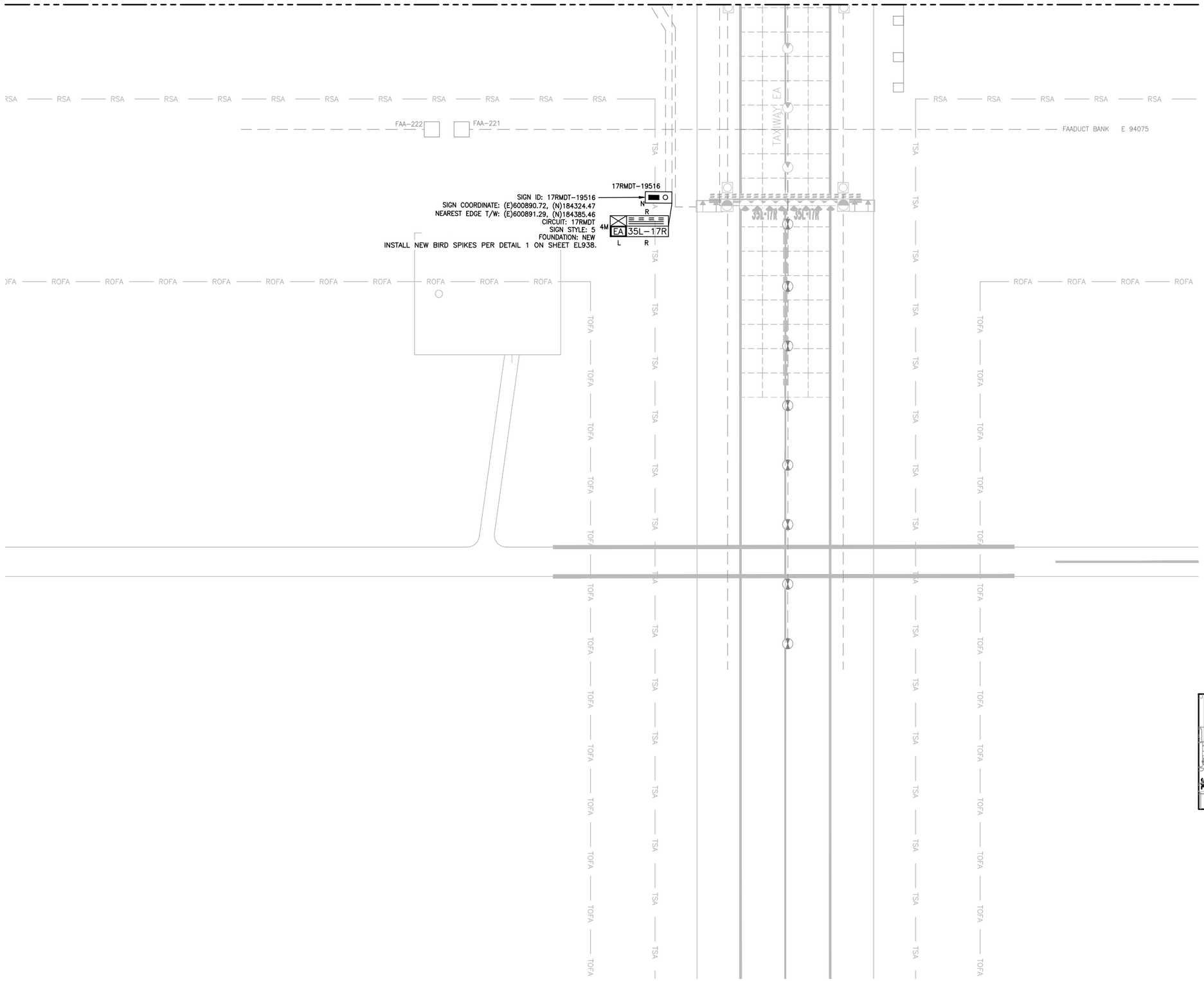
SIGNAGE PLAN (14 OF 17)

SHEET NO. EL934
391 OF 396

CADD FILE NO. _201735882-B1EELP-1356

COLORADO LICENSED TARON LEAN 52246 2/15/19 PROFESSIONAL ENGINEER

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NOTES:

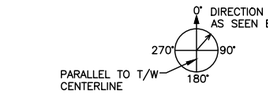
1. SIGN LENGTHS MAY VARY DEPENDING ON MANUFACTURER.
2. CONFIRM LENGTH WITH MANUFACTURER PRIOR TO BID AND ADJUST FOUNDATION ACCORDINGLY.
3. PROVIDE UTILITY LOCATION & POT-HOLING OF LOCATION OF NEW SIGN. SURVEY RESULTS.
4. PROVIDE SHOP DRAWING SHOWING LOCATION OF PROPOSED SIGN & SURVEYED UTILITIES. OBTAIN APPROVAL FROM DENVER PROJECT MANAGER, PRIOR TO EXCAVATION.
5. BLUE STAKE THE 4 CORNERS OF SIGN AND FOUNDATION AND DEFINED EDGE OF T/W TO OBTAIN ENGINEER'S APPROVAL PRIOR TO EXCAVATION. THIS APPLIES TO ALL NEW SIGNS.
6. THE DESIGNATIONS OF SIGNS TO BE INSTALLED ARE:

   R = LIGHTED MANDATORY SIGN (WHITE LEGEND ON RED BACKGROUND)

   L = LIGHTED TAXIWAY AND RUNWAY LOCATION SIGN (YELLOW LEGEND AND BORDER ON BLACK BACKGROUND)

   Y = LIGHTED DIRECTION, DESTINATION & BOUNDARY SIGNS (BLACK LEGEND ON YELLOW BACKGROUND)

   B = LIGHTED RUNWAY DISTANCE REMAINING SIGN (WHITE LEGEND ON BLACK BACKGROUND)
7. THE ANGLE OF THE ARROW OF THE SIGN IS GIVEN ACCORDING TO THE BELOW CONVENTION. ANGLE IN PARENTHESIS DENOTES ARROW ANGLE IF NOT 0°, 90°, 180°, OR 270°.

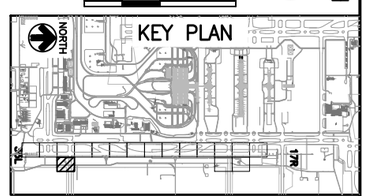



8. ACTUAL NUMBER OF MODULES/WIDTH TO BE USED FOR EACH SIGN WILL BE DETERMINED BY SIGN MANUFACTURER.
   1M = 1 MODULE
   2M = 2 MODULES
   3M = 3 MODULES
   4M = 4 MODULES
9. SIGN COORDINATE IS DEFINED AS THE COORDINATE TO THE NEAREST EDGE OF SIGN AND NOT BASE CAN AND NOT FOUNDATION.
10. SIGN LOCATION & ALIGNMENT:
    INSTALL SIGN SO THAT IT IS IN LINE WITH AN IMAGINARY LINE STRETCHING BETWEEN SIGN COORDINATE & DEFINED EDGE OF TAXIWAY. LOCATION SHALL BE SO THAT THE SIGN COORDINATE IS AT THE NEAREST EDGE OF SIGN.
11. SIGN CHARACTERISTICS:
    - ALL NEW SIGNS SHALL BE LED.
    - RDR SIGNS MUST BE SIZE 4
    - ALL OTHER GUIDANCE SIGNS MUST BE SIZE 3.
    - SIGNS MUST BE MODE 2.
12. INSTALL BIRD ABATEMENT PROTECTION ON SIGNS WITH DESIGNATION AS SHOWN. COST FOR BIRD ABATEMENT SHALL BE BID UNDER BID ITEM L-128.










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52246
2/15/19
PROFESSIONAL ENGINEER

CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

SIGNAGE PLAN (15 OF 17)

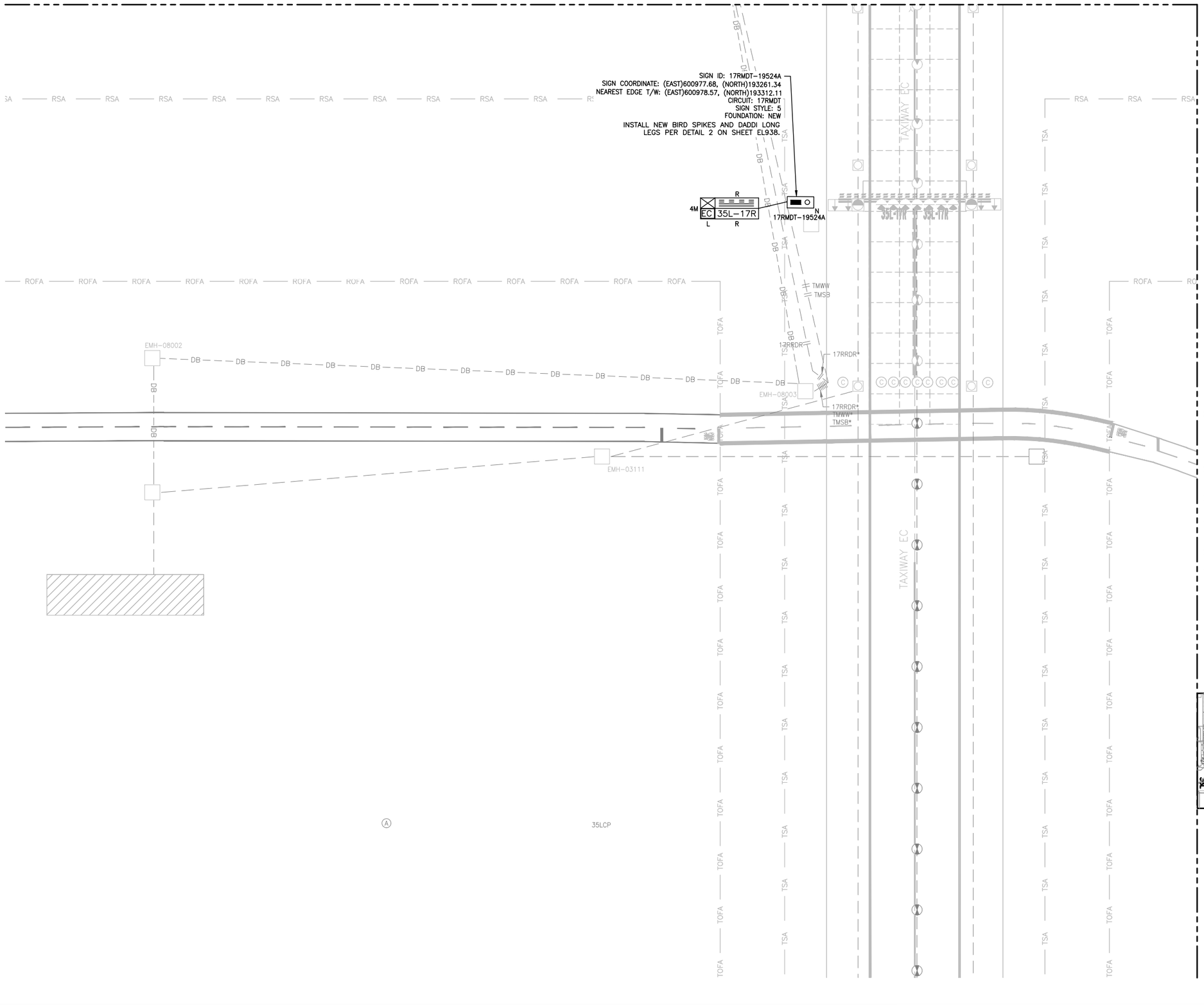
SHEET NO. EL935

392 OF 396

CADD FILE NO. _201735882-B1EELP-1356

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MATCH LINE SEE SHEET EL932




MATCH LINE SEE SHEET EL937

NOTES:

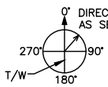
1. SIGN LENGTHS MAY VARY DEPENDING ON MANUFACTURER.
2. CONFIRM LENGTH WITH MANUFACTURER PRIOR TO BID AND ADJUST FOUNDATION ACCORDINGLY.
3. PROVIDE UTILITY LOCATION & POT-HOLING OF LOCATION OF NEW SIGN. SURVEY RESULTS.
4. PROVIDE SHOP DRAWING SHOWING LOCATION OF PROPOSED SIGN & SURVEYED UTILITIES. OBTAIN APPROVAL FROM DENVER PROJECT MANAGER, PRIOR TO EXCAVATION.
5. BLUE STAKE THE 4 CORNERS OF SIGN AND FOUNDATION AND DEFINED EDGE OF T/W TO OBTAIN ENGINEER'S APPROVAL PRIOR TO EXCAVATION. THIS APPLIES TO ALL NEW SIGNS.
6. THE DESIGNATIONS OF SIGNS TO BE INSTALLED ARE:

   R = LIGHTED MANDATORY SIGN (WHITE LEGEND ON RED BACKGROUND)

   L = LIGHTED TAXIWAY AND RUNWAY LOCATION SIGN (YELLOW LEGEND AND BORDER ON BLACK BACKGROUND)

   Y = LIGHTED DIRECTION, DESTINATION & BOUNDARY SIGNS (BLACK LEGEND ON YELLOW BACKGROUND)

   B = LIGHTED RUNWAY DISTANCE REMAINING SIGN (WHITE LEGEND ON BLACK BACKGROUND)
7. THE ANGLE OF THE ARROW OF THE SIGN IS GIVEN ACCORDING TO THE BELOW CONVENTION. ANGLE IN PARENTHESIS DENOTES ARROW ANGLE IF NOT 0°, 90°, 180°, OR 270°.

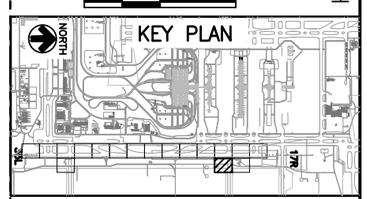



PARALLEL TO T/W CENTERLINE

8. ACTUAL NUMBER OF MODULES/WIDTH TO BE USED FOR EACH SIGN WILL BE DETERMINED BY SIGN MANUFACTURER.
   1M = 1 MODULE
   2M = 2 MODULES
   3M = 3 MODULES
   4M = 4 MODULES
9. SIGN COORDINATE IS DEFINED AS THE COORDINATE TO THE NEAREST EDGE OF SIGN AND NOT BASE CAN AND NOT FOUNDATION.
10. SIGN LOCATION & ALIGNMENT:
    INSTALL SIGN SO THAT IT IS IN LINE WITH AN IMAGINARY LINE STRETCHING BETWEEN SIGN COORDINATE & DEFINED EDGE OF TAXIWAY. LOCATION SHALL BE SO THAT THE SIGN COORDINATE IS AT THE NEAREST EDGE OF SIGN.
11. SIGN CHARACTERISTICS:
    - ALL NEW SIGNS SHALL BE LED.
    - RDR SIGNS MUST BE SIZE 4
    - ALL OTHER GUIDANCE SIGNS MUST BE SIZE 3.
    - SIGNS MUST BE MODE 2.
12. INSTALL BIRD ABATEMENT PROTECTION ON SIGNS WITH DESIGNATION AS SHOWN. COST FOR BIRD ABATEMENT SHALL BE BID UNDER BID ITEM L-128.






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CITY & COUNTY of DENVER

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LEAN ENGINEERING

# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

SIGNAGE PLAN (16 OF 17)

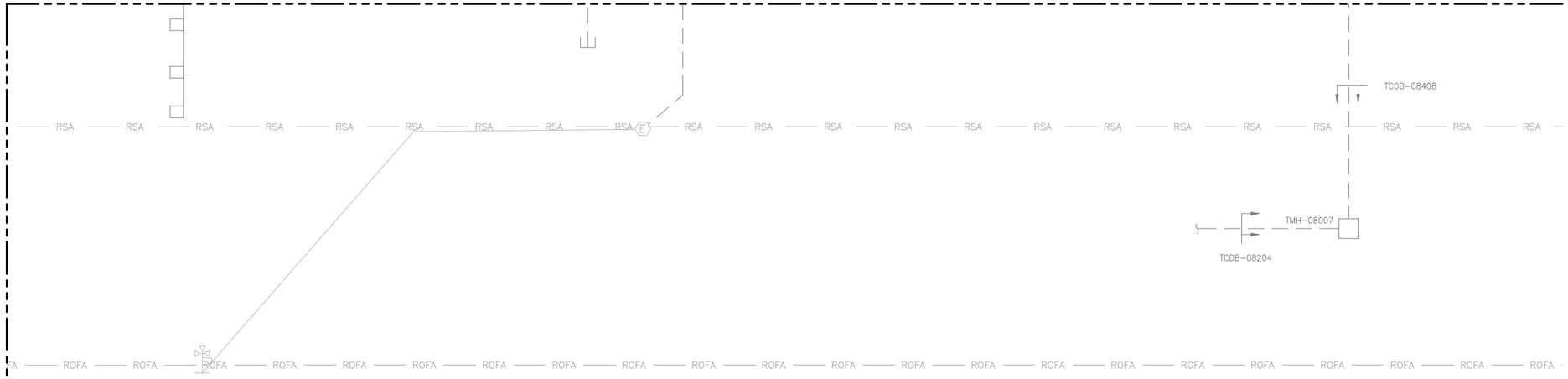
SHEET NO. EL936

393 OF 396

CADD FILE NO. _201735882-B1EELP-1356

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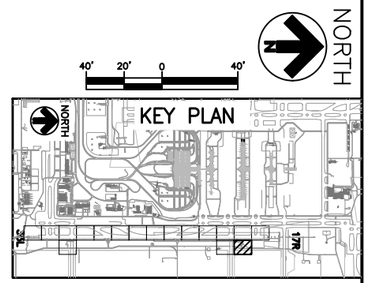
MATCH LINE SEE SHEET EL933




MATCH LINE SEE SHEET EL936

NOTES:

1. THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. NO WORK IS REQUIRED.




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# RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

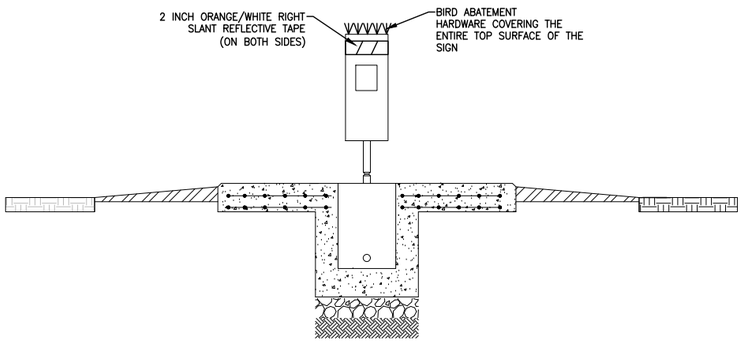
SIGNAGE PLAN (17 OF 17)

SHEET NO. EL937

394 OF 396

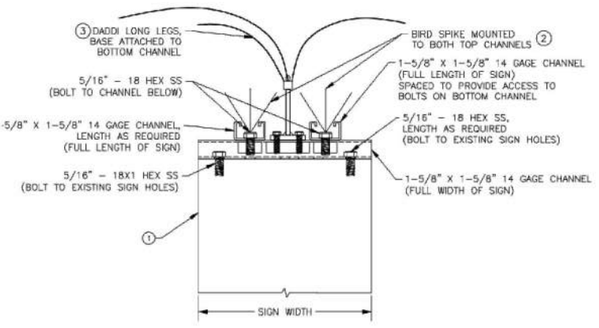
CADD FILE NO. _201735882-B1EELP-1356

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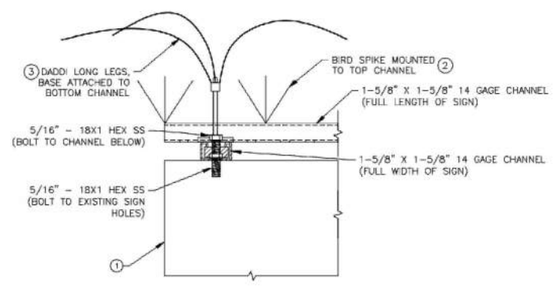



1. INSTALL SIGN AND FOUNDATION PER DETAILS ON EL600 SERIES.
2. REFLECTIVE TAPE TO THE ENTIRE BACK SIDE OF A SINGLE SIDED SIGN OR TO THE TWO EDGES OF DOUBLE SIDED SIGN.
3. BIRD SPIKE MODEL SHALL BE BIRD-BE-GONE (MODEL MEGA BIRD SPIKES OR 7" LONG BY 5" WIDE MODEL. ASSUME 2 STRIPES FULL LENGTH OF SIGN) SPIKE OR APPROVED EQUAL. ADDITIONAL BIRD SPIKES SHALL BE REQUIRED TO COVER THE TOP EXPOSED SURFACE OF SIGN. ALL WORK SHALL BE CONSIDERED INCIDENTAL.

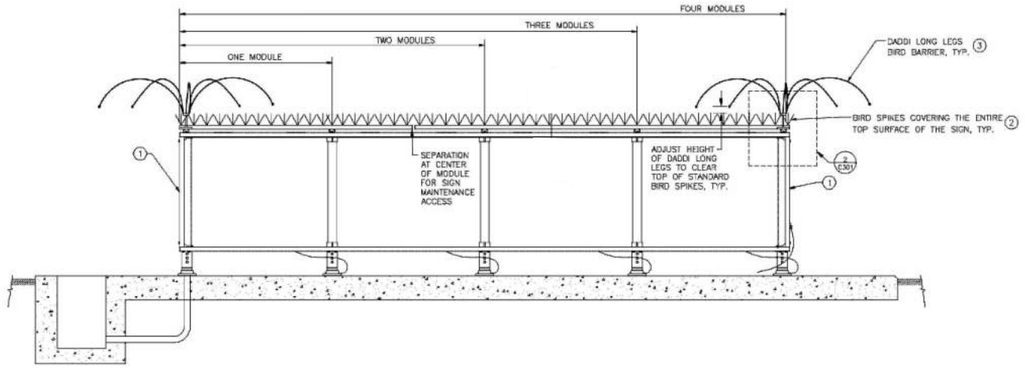
1 / – BIRD SPIKES INSTALLATION ON TYPICAL SIGN
NOT TO SCALE




SECTION 1
N.T.S.




DETAIL 2
N.T.S.




2 / – BIRD SPIKES AND DADDI LONG LEGS INSTALLATION ON TYPICAL SIGN
NOT TO SCALE

NOTES:

1. SEE SHEET E-001 FOR GENERAL ELECTRICAL NOTES.

DETAIL 2 NOTES:

1. INSTALL SIGN AND FOUNDATION PER DETAILS ON EL600 SERIES.
2. IN ADDITION TO SIGN, INSTALL SHALL BE BIRD-BE-GONE (MODEL MEGA BIRD SPIKES OR 7" LONG BY 5" WIDE MODEL. ASSUME 2 STRIPES FULL LENGTH OF SIGN) SPIKE OR APPROVED EQUAL. ADDITIONAL BIRD SPIKES SHALL BE REQUIRED TO COVER THE TOP EXPOSED SURFACE OF SIGN. ALL WORK SHALL BE CONSIDERED INCIDENTAL.
3. IN ADDITION TO BIRD SPIKES INSTALL DADDI LONG LEGS, MODEL DD-4000 4' DIAMETER DADDI LONG LEGS BIRD BARRIER OR APPROVED EQUAL.

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LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

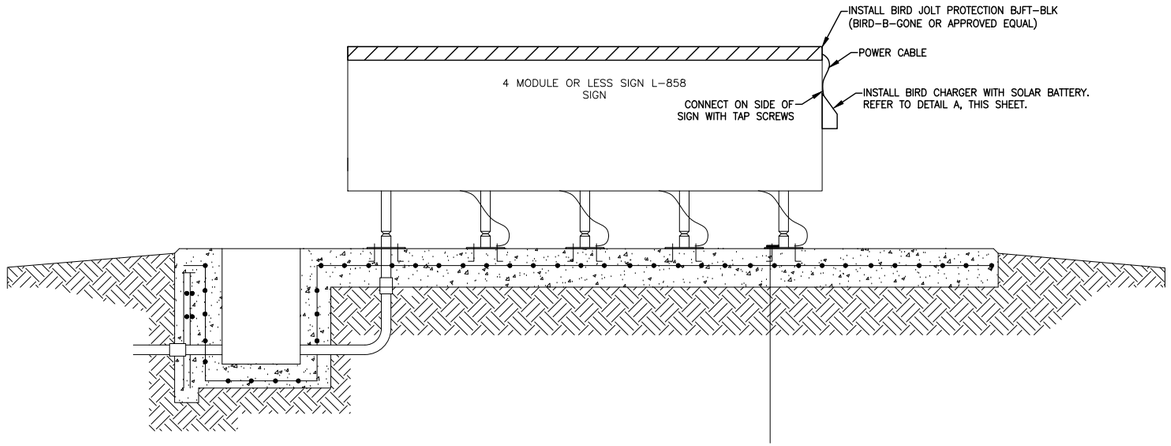
| NO. | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED
DATE: FEBRUARY 15, 2019
DRAWN BY: KV
CHECKED BY: JA
FAA AIP NO:
WORK BREAKDOWN NO.
DESIGN CONTRACT NO. 201735882
CONST. CONTRACT NO. 201846271
VOLUME NO.
SHEET TITLE: BIRD ABATMENT DETAIL 1
SHEET NO. EL938
395 OF 396
CADD FILE NO. _201735882-B1EELP-1356

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NOTES:

1. SEE SHEET E-001 FOR GENERAL ELECTRICAL NOTES.




DETAIL 1 NOTES:

1. INSTALL SIGN AND FOUNDATION PER DETAILS ON EL600 SERIES.
2. INSTALL BIRD PROTECTION WITH SOLAR PANEL.
3. ORIENTATE SOLAR PANEL TOWARDS SOUTH/SOUTHWEST AS MUCH POSSIBLE.

1 / – BIRD ELECTRIC ABATMENT PROTECTION POWERED BY SOLAR PANEL
NOT TO SCALE



A / – SOLAR CHARGER
NOT TO SCALE




CITY & COUNTY of DENVER

DENVER INTERNATIONAL AIRPORT

LEAN ENGINEERING

RUNWAY 17R-35L COMPLEX PAVEMENT REHABILITATION PACKAGE 1

ISSUE RECORD

| NO | BY | PURPOSE | DATE | CKD |
|---|---|---|---|---|
| 1 | LE | 50% DESIGN | 09/14/18 | DL |
| 2 | LE | 90% DESIGN | 10/26/18 | DL |
| 3 | LE | BID | 12/26/18 | DL |
| 4 | LE | CONSTRUCTION | 2/15/19 | DL |

SCALE: AS INDICATED

DATE: FEBRUARY 15, 2019

DRAWN BY: KV

CHECKED BY: JA

FAA AIP NO:

WORK BREAKDOWN NO.

DESIGN CONTRACT NO. 201735882

CONST. CONTRACT NO. 201846271

VOLUME NO.

SHEET TITLE

BIRD ABATMENT DETAIL 2

SHEET NO. EL939
396 OF 396

CADD FILE NO. _201735882-B1EELP-1356

D:\dropbox (lean photometrics)\active projects\1571801a rah den 17r-35l reconstruction\01 drawings\working drawings\Sheets_201735882-B1EELP-1356.dwg Feb 12, 2019 - 5:43pm Kat