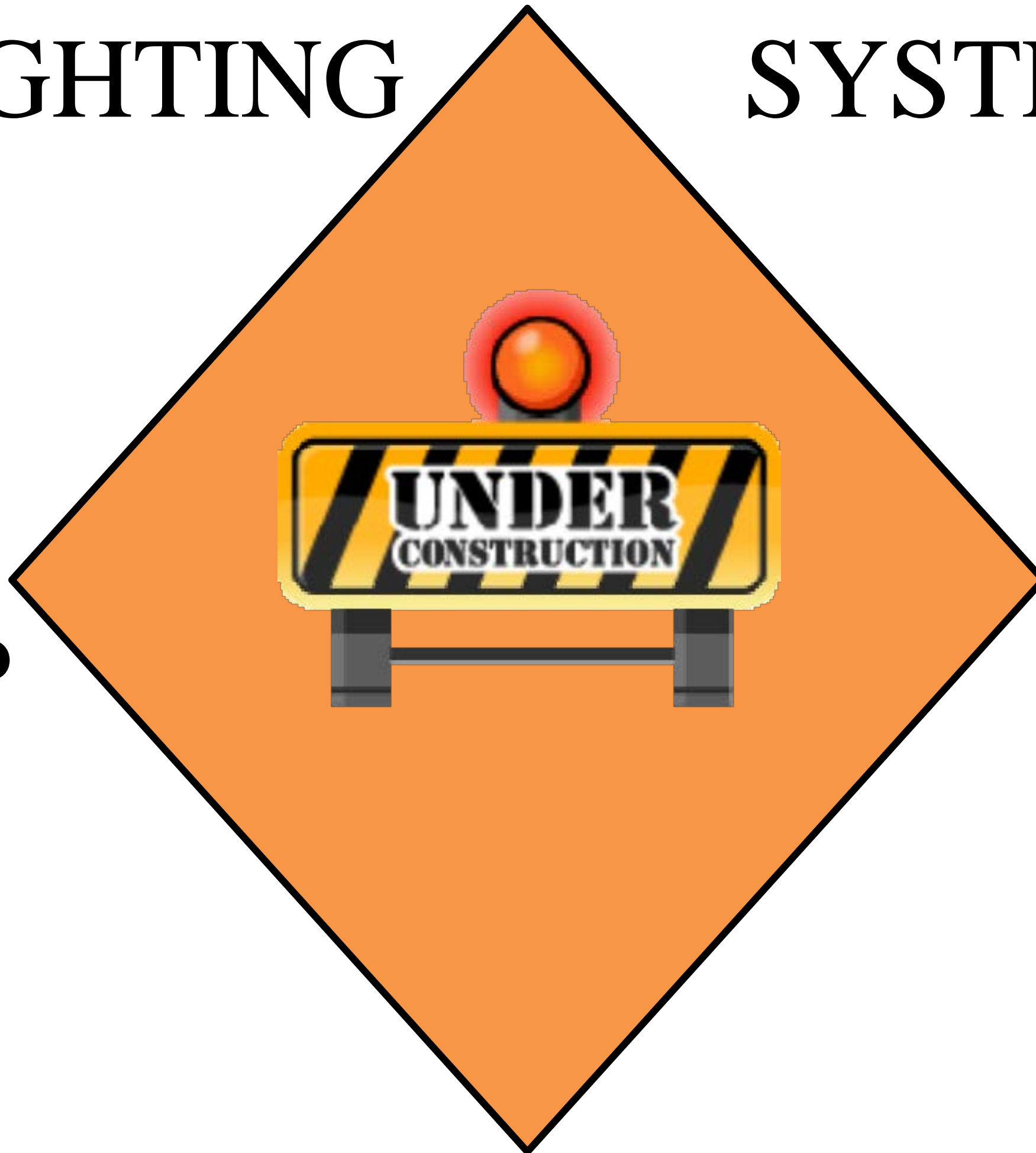




**STOP**

**LIGHTING**

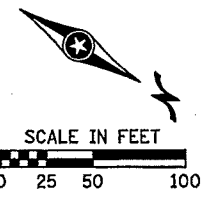
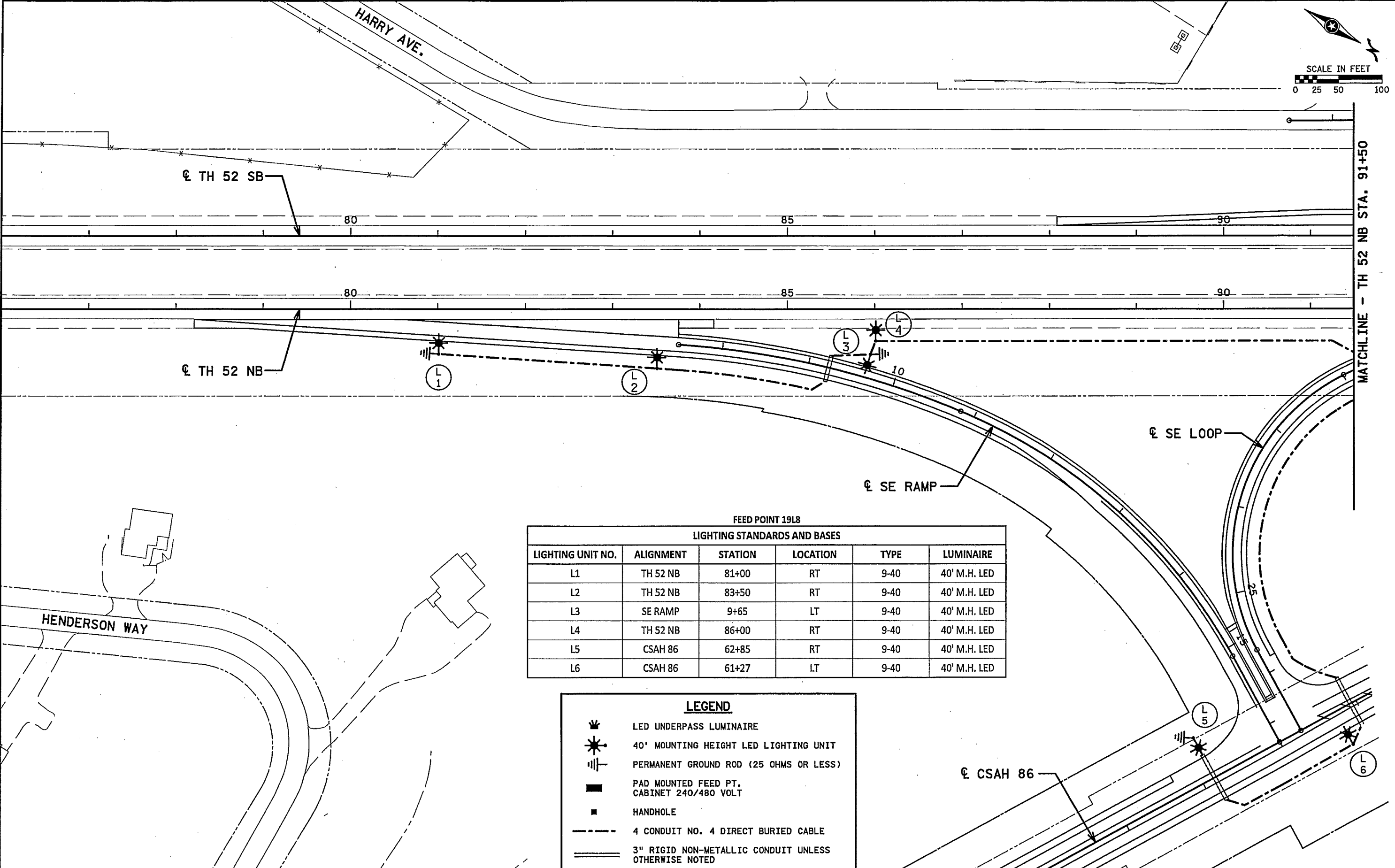
**SYSTEM**



**WEST METRO**  
**JAMES SIMS**  
**651-775-9495**

**EAST METRO**  
**JAY URBAN**  
**651-775-5712**

DATE: 7/14/2015 TIME: 2:06:48 PM  
 FILENAME: K:\a-f\DatataCity\1546300Nhw\brdg\hwy\pln-stf\od190539\_11.dgn



FEED POINT 19L8

| LIGHTING STANDARDS AND BASES |           |         |          |      |              |
|------------------------------|-----------|---------|----------|------|--------------|
| LIGHTING UNIT NO.            | ALIGNMENT | STATION | LOCATION | TYPE | LUMINAIRE    |
| L1                           | TH 52 NB  | 81+00   | RT       | 9-40 | 40' M.H. LED |
| L2                           | TH 52 NB  | 83+50   | RT       | 9-40 | 40' M.H. LED |
| L3                           | SE RAMP   | 9+65    | LT       | 9-40 | 40' M.H. LED |
| L4                           | TH 52 NB  | 86+00   | RT       | 9-40 | 40' M.H. LED |
| L5                           | CSAH 86   | 62+85   | RT       | 9-40 | 40' M.H. LED |
| L6                           | CSAH 86   | 61+27   | LT       | 9-40 | 40' M.H. LED |

**LEGEND**

- LED UNDERPASS LUMINAIRE
- 40' MOUNTING HEIGHT LED LIGHTING UNIT
- PERMANENT GROUND ROD (25 OHMS OR LESS)
- PAD MOUNTED FEED PT. CABINET 240/480 VOLT
- HANDHOLE
- 4 CONDUIT NO. 4 DIRECT BURIED CABLE
- 3" RIGID NON-METALLIC CONDUIT UNLESS OTHERWISE NOTED

| NO. | DATE | BY | DESCRIPTION OF REVISIONS |
|-----|------|----|--------------------------|
|     |      |    |                          |

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.








SIGNATURE: *Jeffrey A. Hilden*  
 PRINTED NAME: JEFFREY A. HILDEN  
 DATE: JULY 14, 2015 LIC. NO. 20781

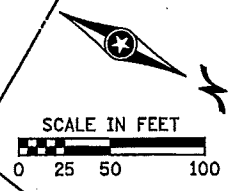
444 Cedar Street, Suite 1600  
 Saint Paul, MN 55101  
 651.292.4400  
 tkda.com  
**TKDA**

LIGHTING PLAN

S.P. 1905-39 (TH 52), S.A.P. 019-686-014  
 Sheet No. 199 of 204 Sheets

**LEGEND**

-  LED UNDERPASS LUMINAIRE
-  40' MOUNTING HEIGHT LED LIGHTING UNIT
-  PERMANENT GROUND ROD (25 OHMS OR LESS)
-  PAD MOUNTED FEED PT. CABINET 240/480 VOLT
-  HANDHOLE
-  4 CONDUIT NO. 4 DIRECT BURIED CABLE
-  3" RIGID NON-METALLIC CONDUIT UNLESS OTHERWISE NOTED



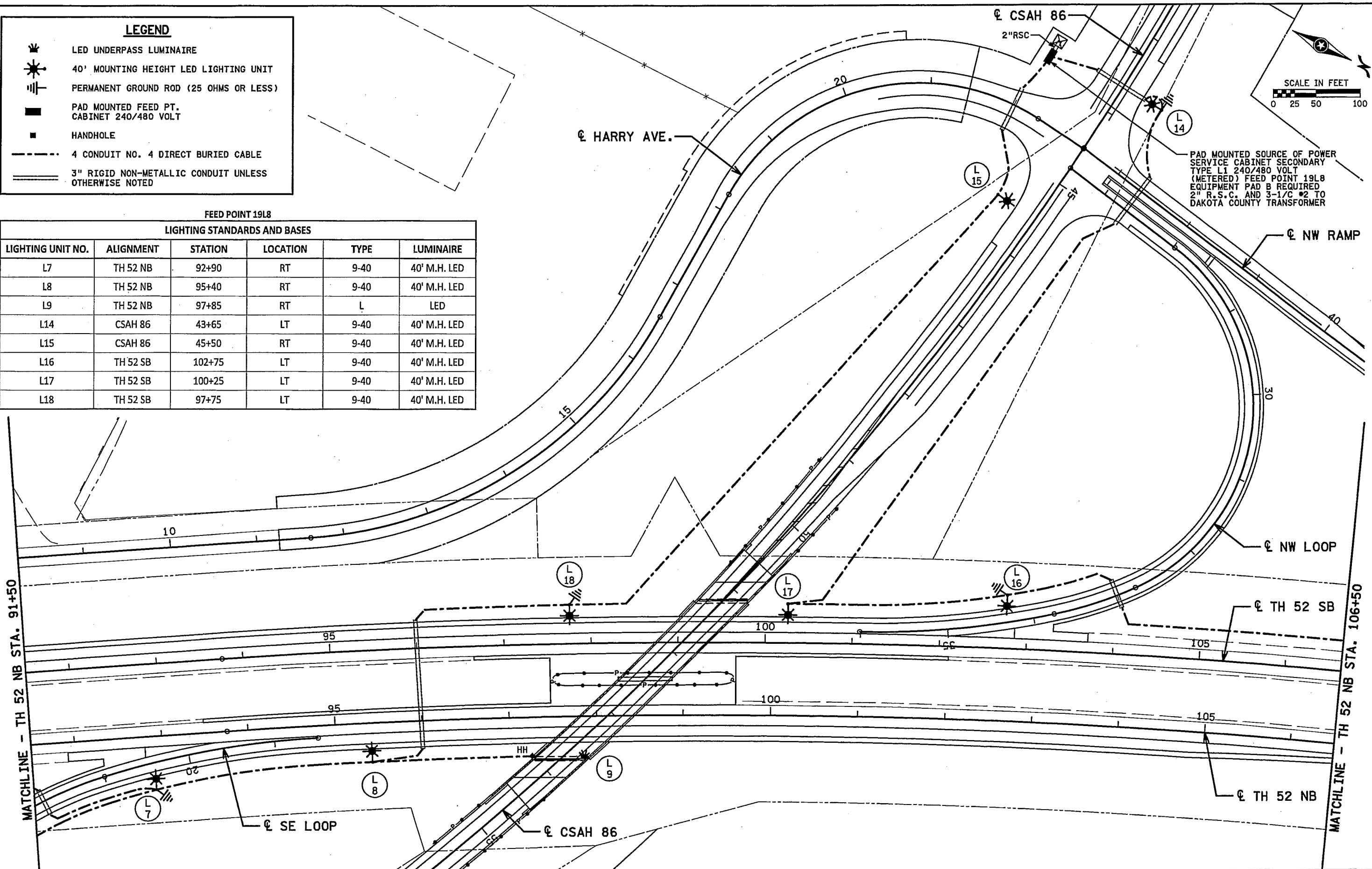
PAD MOUNTED SOURCE OF POWER SERVICE CABINET SECONDARY TYPE L1 240/480 VOLT (METERED) FEED POINT 19L8 EQUIPMENT PAD B REQUIRED 2" R.S.C. AND 3-1/C #2 TO DAKOTA COUNTY TRANSFORMER

**FEED POINT 19L8**

**LIGHTING STANDARDS AND BASES**

| LIGHTING UNIT NO. | ALIGNMENT | STATION | LOCATION | TYPE | LUMINAIRE    |
|-------------------|-----------|---------|----------|------|--------------|
| L7                | TH 52 NB  | 92+90   | RT       | 9-40 | 40' M.H. LED |
| L8                | TH 52 NB  | 95+40   | RT       | 9-40 | 40' M.H. LED |
| L9                | TH 52 NB  | 97+85   | RT       | L    | LED          |
| L14               | CSAH 86   | 43+65   | LT       | 9-40 | 40' M.H. LED |
| L15               | CSAH 86   | 45+50   | RT       | 9-40 | 40' M.H. LED |
| L16               | TH 52 SB  | 102+75  | LT       | 9-40 | 40' M.H. LED |
| L17               | TH 52 SB  | 100+25  | LT       | 9-40 | 40' M.H. LED |
| L18               | TH 52 SB  | 97+75   | LT       | 9-40 | 40' M.H. LED |

DATE: 7/14/2015 TIME: 2:06:49 PM FILENAME: K:\a-f\DatataCity\546300\hwy\p1r-sta\ad190539\_11e.dgn



| NO. | DATE | BY | DESCRIPTION OF REVISIONS |
|-----|------|----|--------------------------|
|     |      |    |                          |

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: *Jeffrey A. Hilden*  
 PRINTED NAME: JEFFREY A. HILDEN  
 DATE: JULY 14, 2015 LIC. NO. 20781

444 Cedar Street, Suite 1500  
 Saint Paul, MN 55101  
 651.292.4400  
 tkda.com

**TKDA**

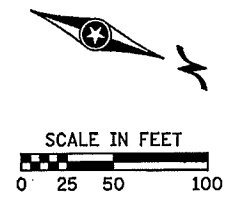
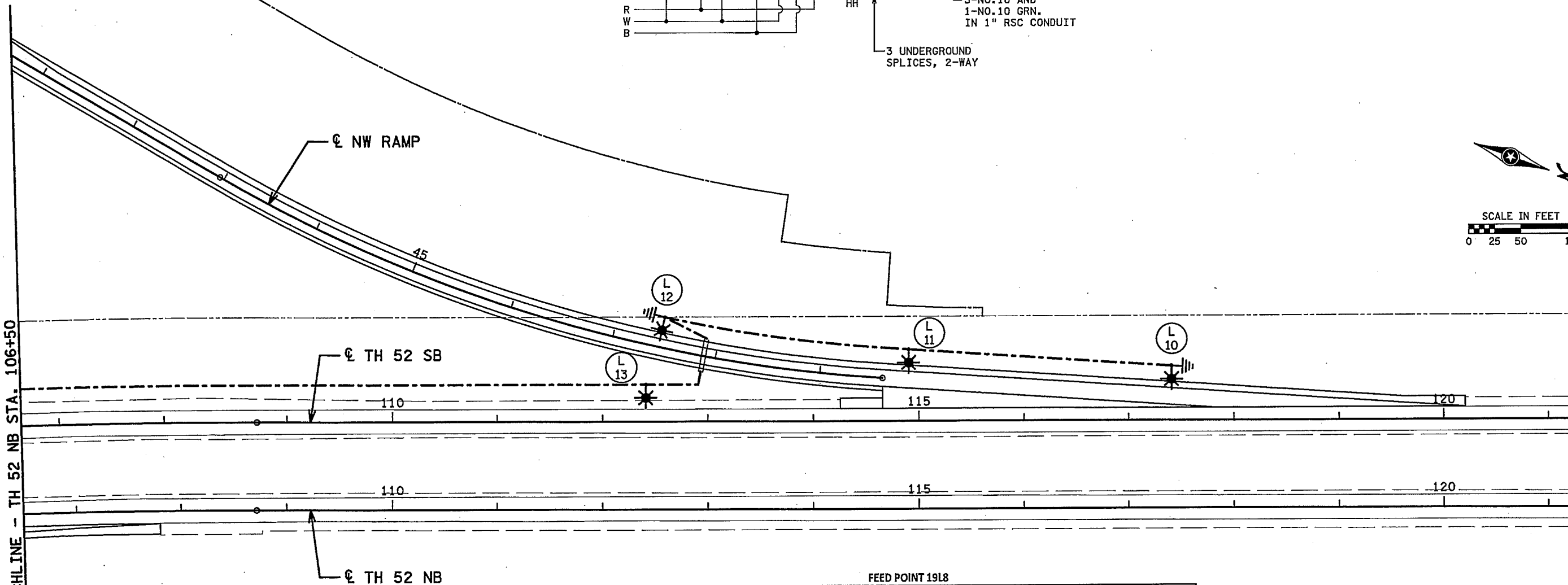
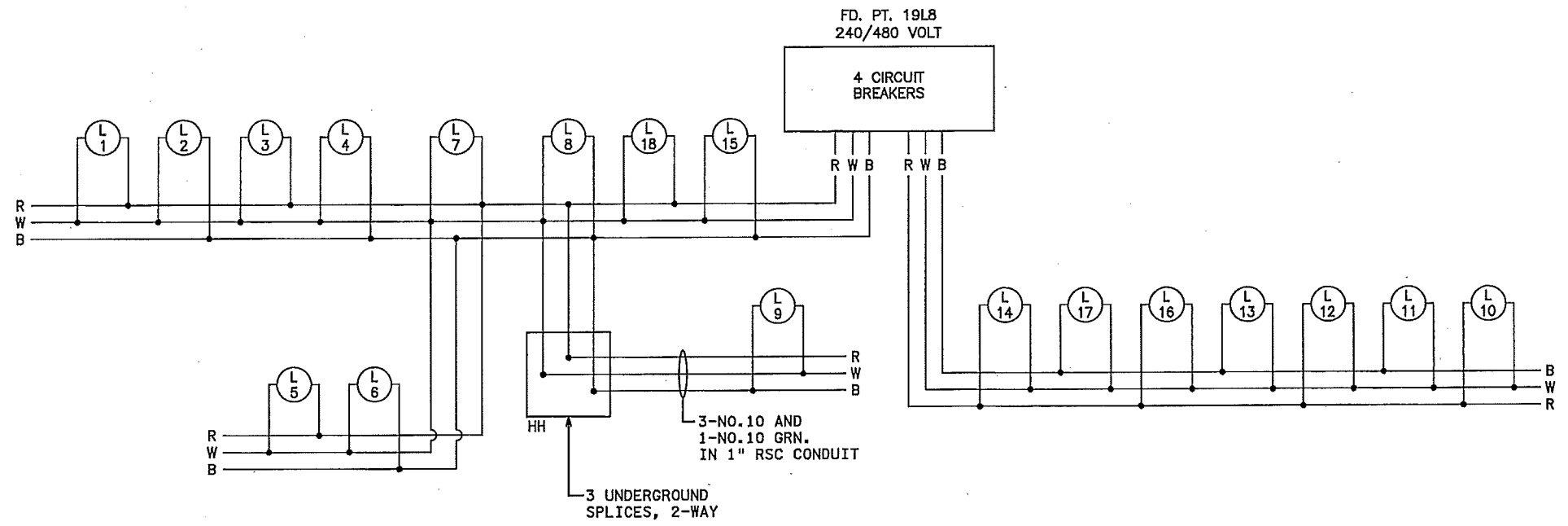
**LIGHTING PLAN**

S.P. 1905-39 (TH 52), S.A.P. 019-686-014  
 Sheet No. 200 of 204 Sheets

DATE: 7/14/2015 TIME: 2:06:50 PM  
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**LEGEND**

- LED UNDERPASS LUMINAIRE
- 40' MOUNTING HEIGHT LED LIGHTING UNIT
- PERMANENT GROUND ROD (25 OHMS OR LESS)
- PAD MOUNTED FEED PT. CABINET 240/480 VOLT
- HANDHOLE
- 4 CONDUIT NO. 4 DIRECT BURIED CABLE
- 3" RIGID NON-METALLIC CONDUIT UNLESS OTHERWISE NOTED



FEED POINT 19L8

| LIGHTING STANDARDS AND BASES |           |         |          |      |              |
|------------------------------|-----------|---------|----------|------|--------------|
| LIGHTING UNIT NO.            | ALIGNMENT | STATION | LOCATION | TYPE | LUMINAIRE    |
| L10                          | TH 52 SB  | 117+40  | LT       | 9-40 | 40' M.H. LED |
| L11                          | TH 52 SB  | 114+90  | LT       | 9-40 | 40' M.H. LED |
| L12                          | NW RAMP   | 47+45   | LT       | 9-40 | 40' M.H. LED |
| L13                          | TH 52 SB  | 112+40  | LT       | 9-40 | 40' M.H. LED |

| NO. | DATE | BY | DESCRIPTION OF REVISIONS |
|-----|------|----|--------------------------|
|     |      |    |                          |

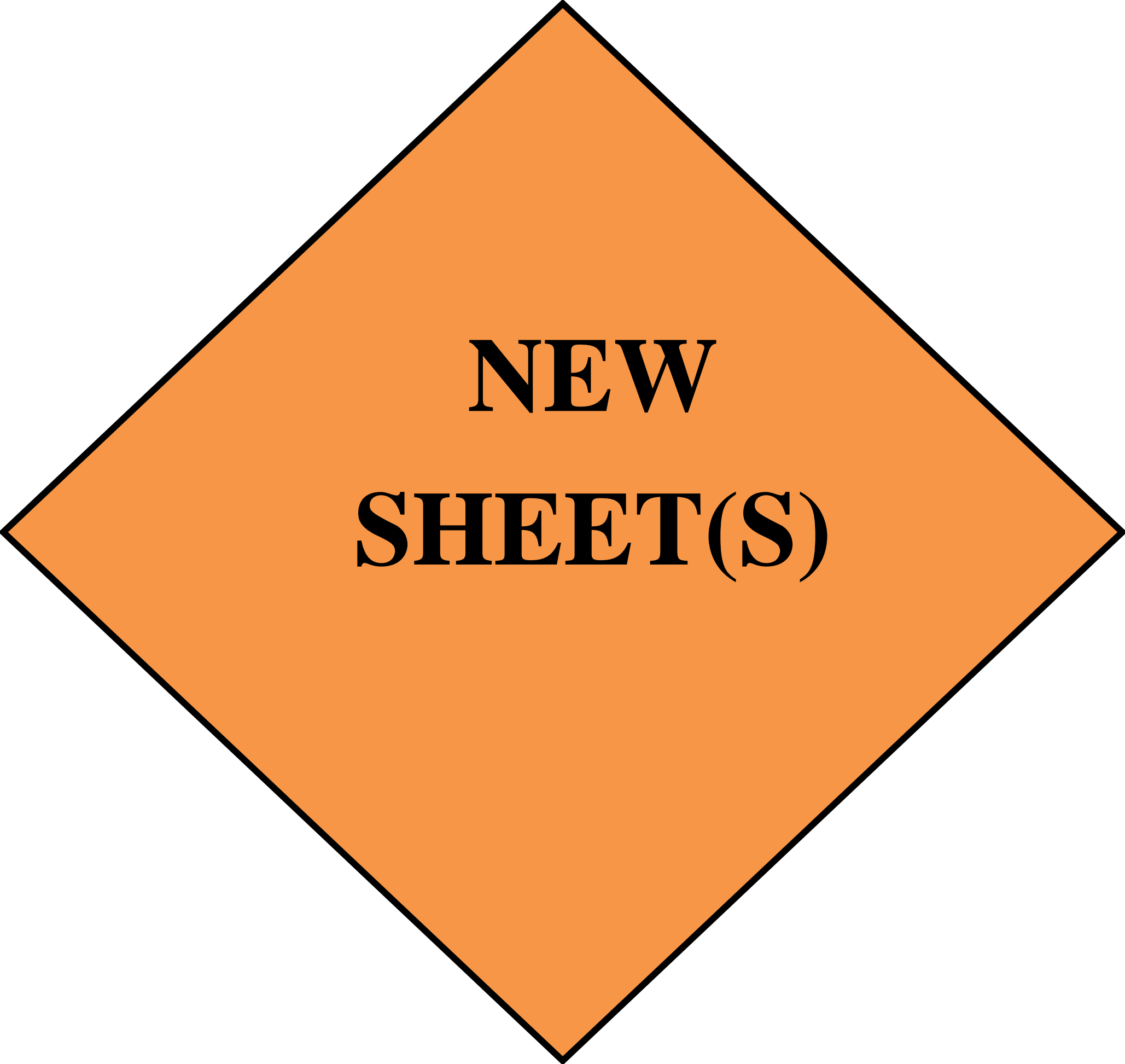
I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: *Jeffrey A. Hilden*  
 PRINTED NAME: JEFFREY A. HILDEN  
 DATE: JULY 14, 2015 LIC. NO. 20781

TKDA  
 444 Cedar Street, Suite 1600  
 Saint Paul, MN 55101  
 651.292.4400  
 tkda.com


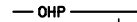

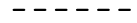


**LIGHTING PLAN**

S.P. 1905-39 (TH 52), S.A.P. 019-686-014  
 Sheet No. 201 of 204 Sheets



**NEW  
SHEET(S)**

### LEGEND

-  F & I TEMPORARY LIGHTING UNIT & DESIGN STEEL E FOUNDATION
-  OVERHEAD LIGHTING CABLE 4/C 4 AWG
-  INPLACE LIGHTING UNIT
-  INPLACE CONDUIT
-  INPLACE DIRECT BURIED CABLE
-  LIGHTING UNIT IDENTIFIER

NOTE:  
ALL TEMPORARY LIGHTING ITEMS  
TO BE REMOVED UNDER SP1906-71.

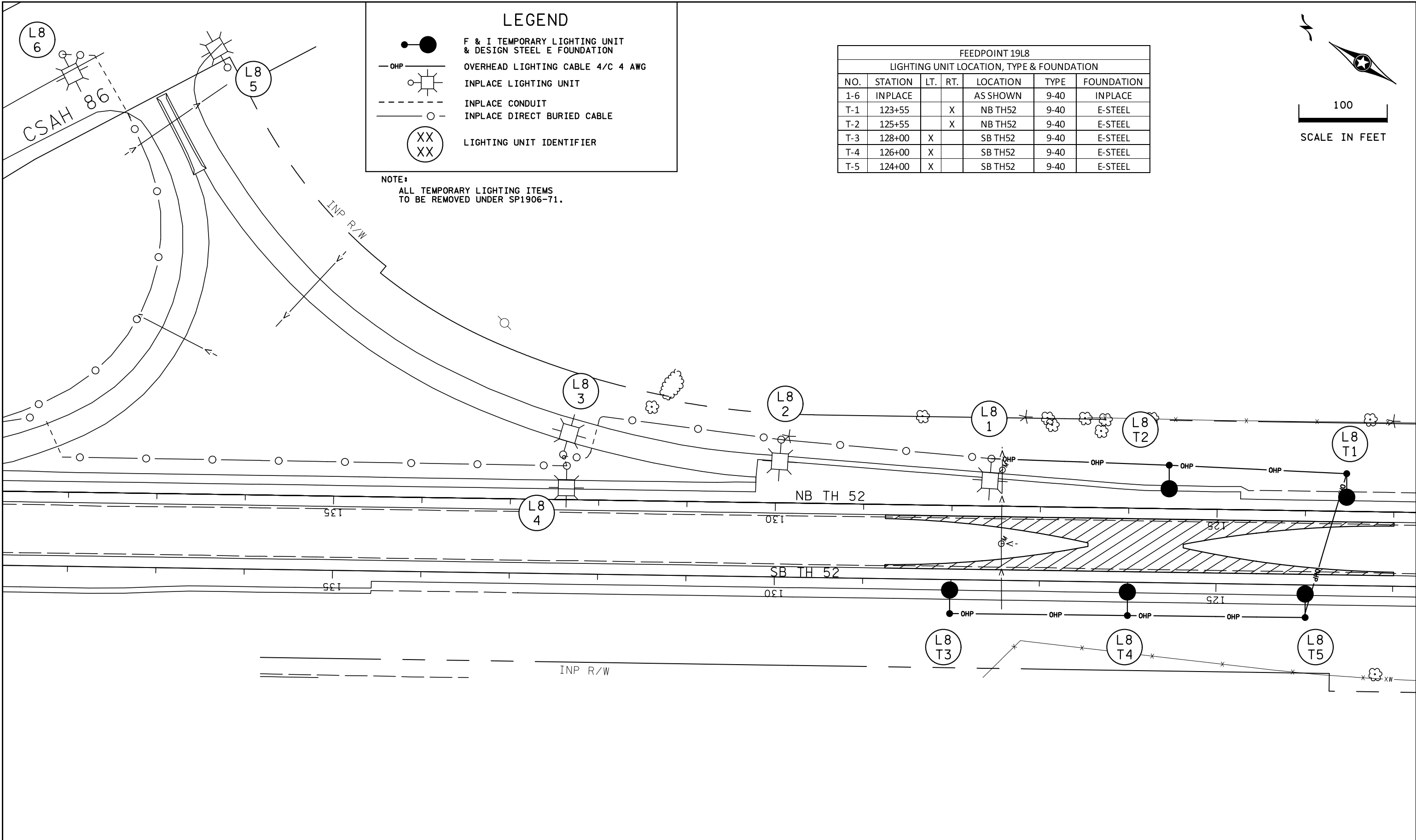
| FEEDPOINT 19L8                            |         |     |     |          |      |            |
|---|---------|-----|-----|----------|------|------------|
| LIGHTING UNIT LOCATION, TYPE & FOUNDATION |         |     |     |          |      |            |
| NO.                                       | STATION | LT. | RT. | LOCATION | TYPE | FOUNDATION |
| 1-6                                       | INPLACE |     |     | AS SHOWN | 9-40 | INPLACE    |
| T-1                                       | 123+55  |     | X   | NB TH52  | 9-40 | E-STEEL    |
| T-2                                       | 125+55  |     | X   | NB TH52  | 9-40 | E-STEEL    |
| T-3                                       | 128+00  | X   |     | SB TH52  | 9-40 | E-STEEL    |
| T-4                                       | 126+00  | X   |     | SB TH52  | 9-40 | E-STEEL    |
| T-5                                       | 124+00  | X   |     | SB TH52  | 9-40 | E-STEEL    |



100  
SCALE IN FEET

PLOTTED/REVISED: 8-NOV-2021


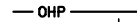

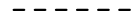


I/PLOT NAME: 190674\_Lit\_IoSL4  
PATH & FILENAME: Projects\DM\_R05\052\1906074\Traffic\Lighting\190674\_Lit\_Io.dgn



### SOUTH CROSSOVER

|              |      |             |                                   |                                      |   |
|--------------|------|-------------|-----------------------------------|--------------------------------------|---|
| BY           | DATE | REVISIONS   | FEEDPOINT: 19L8                   | LOCATION: C.S.A.H.86/ROCHESTER BLVD. | <b>TEMPORARY LIGHTING PLAN</b>                                |
|              |      |             | METER ADDRESS: CTY 86 & TH52      |                                      |   |
| DRAWN BY: PB |      | CKD BY: DDD | CERTIFIED BY: <i>Gregory Kern</i> | LIC. NO. 26829                       | DATE: 8-NOV-2021  |
|              |      |             | LICENSED PROFESSIONAL ENGINEER    |                                      | STATE PROJ. NO. 1906-74 (T.H. 52) SHEET NO. SL4 OF SL5 SHEETS |

### LEGEND

-  F & I TEMPORARY LIGHTING UNIT & DESIGN STEEL E FOUNDATION
-  OVERHEAD LIGHTING CABLE 4/C 4 AWG
-  INPLACE LIGHTING UNIT
-  INPLACE CONDUIT
-  INPLACE DIRECT BURIED CABLE
-  LIGHTING UNIT IDENTIFIER

NOTE:  
ALL TEMPORARY LIGHTING ITEMS  
TO BE REMOVED UNDER SP1906-71.

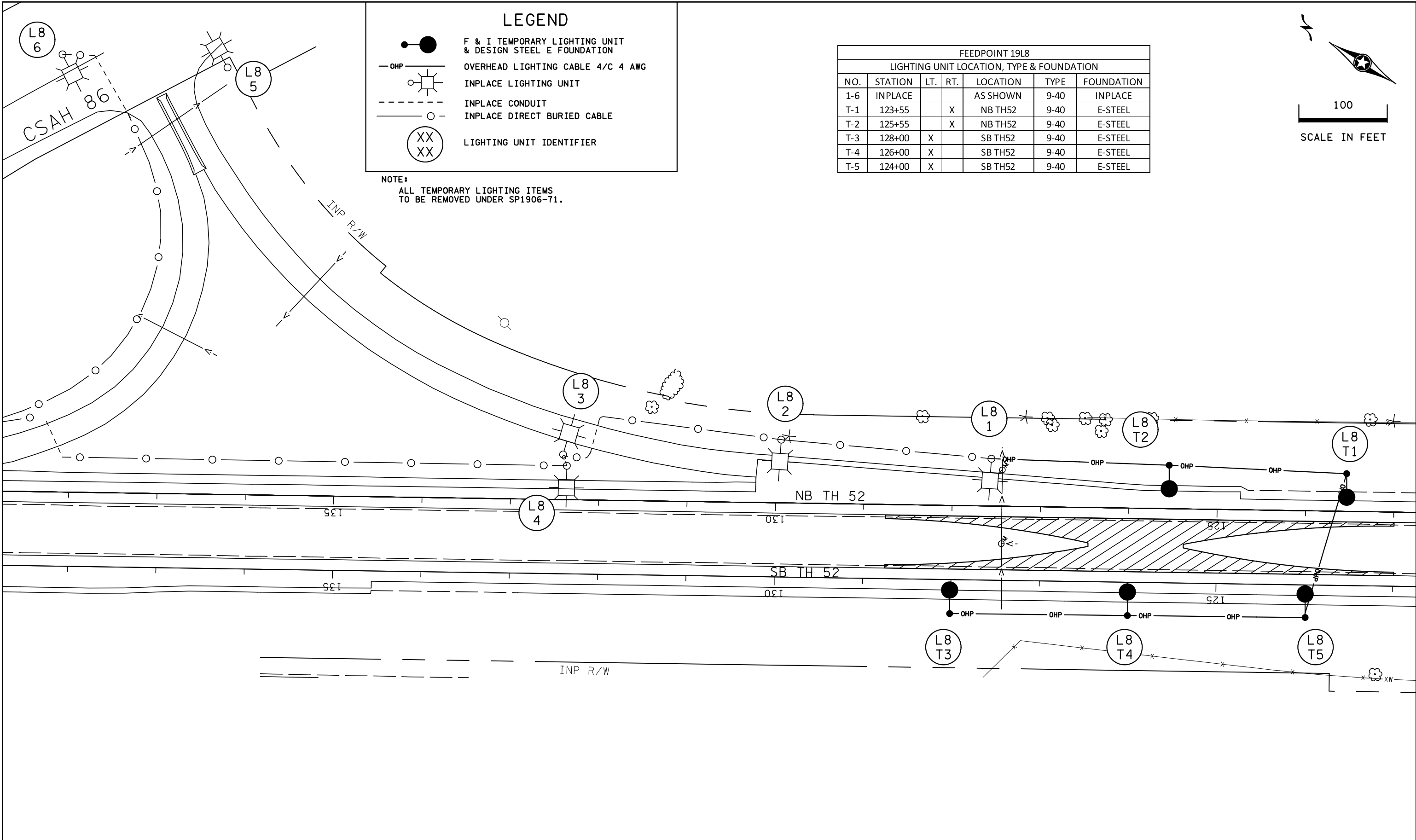
| FEEDPOINT 19L8                            |         |     |     |          |      |            |
|---|---------|-----|-----|----------|------|------------|
| LIGHTING UNIT LOCATION, TYPE & FOUNDATION |         |     |     |          |      |            |
| NO.                                       | STATION | LT. | RT. | LOCATION | TYPE | FOUNDATION |
| 1-6                                       | INPLACE |     |     | AS SHOWN | 9-40 | INPLACE    |
| T-1                                       | 123+55  |     | X   | NB TH52  | 9-40 | E-STEEL    |
| T-2                                       | 125+55  |     | X   | NB TH52  | 9-40 | E-STEEL    |
| T-3                                       | 128+00  | X   |     | SB TH52  | 9-40 | E-STEEL    |
| T-4                                       | 126+00  | X   |     | SB TH52  | 9-40 | E-STEEL    |
| T-5                                       | 124+00  | X   |     | SB TH52  | 9-40 | E-STEEL    |



100  
SCALE IN FEET

PLOTTED/REVISED: 8-NOV-2021

I/PLOT NAME: 190674\_Lit\_IoSL4  
PATH & FILENAME: Projects\DM\_R05\052\1906074\Traffic\Lighting\190674\_Lit\_Io.dgn



SOUTH CROSSOVER

| BY           | DATE | REVISIONS   |
|--------------|------|-------------|
|              |      |             |
|              |      |             |
|              |      |             |
| DRAWN BY: PB |      | CKD BY: DDD |

FEEDPOINT: 19L8      LOCATION: C.S.A.H.86/ROCHESTER BLVD.  
METER ADDRESS: CTY 86 & TH52

CERTIFIED BY *Gregory Kern*      LIC. NO. 26829      DATE: 8-NOV-2021  
LICENSED PROFESSIONAL ENGINEER

**TEMPORARY LIGHTING PLAN**

STATE PROJ.NO. 1906-74 (T.H. 52)      SHEET NO. SL4 OF SL5 SHEETS