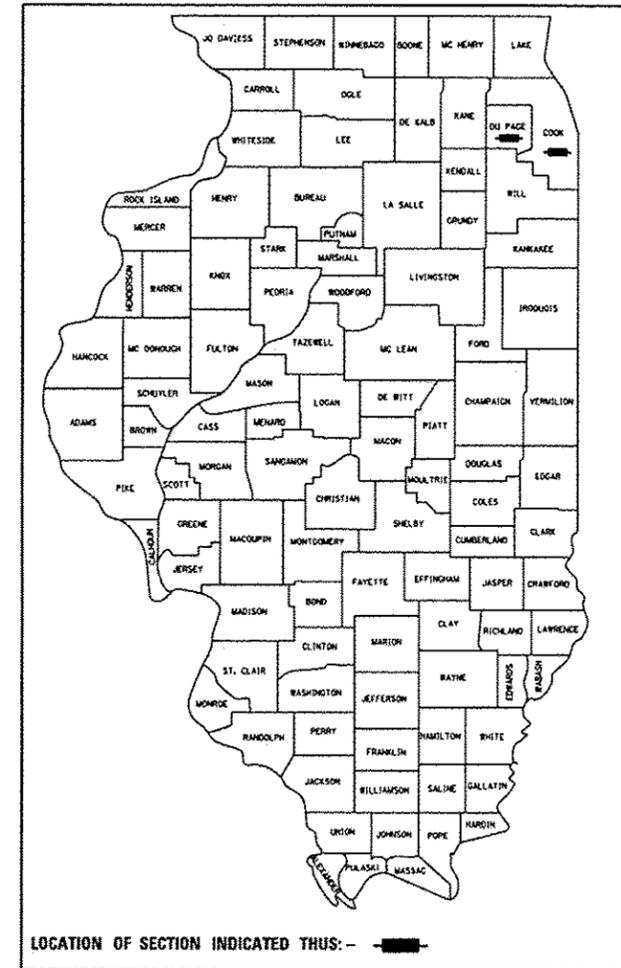


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

| | | | | |
|-----------|-----------|---------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | VARIOUS | 84 | 1 |
| ILLINOIS | | | CONTRACT NO. 62A98 | |

**PROPOSED
HIGHWAY PLANS**

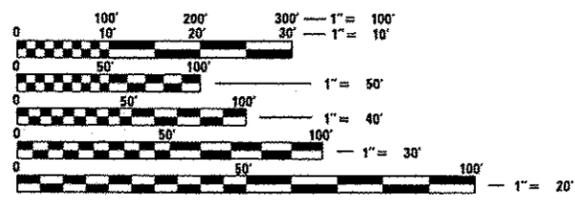
**VARIOUS ROUTES
VARIOUS LOCATIONS
SECTION: 2015-039L
PROJECT: ACNHPP-000V (081)
REPLACE LIGHT TOWERS & FOUNDATIONS
AT VARIOUS LOCATIONS ALONG I-55 AND I-290
COOK & DUPAGE COUNTIES
C-91-366-15**



Harjit Singh 08/11/2016

EXPIRES: 11-30-2017

FINAL SUBMITTAL



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

SEE LOCATION MAPS
SHEETS E-KP1 THRU E-KP4

C.U.A.N.
CHICAGO UTILITY ALERT NETWORK
1-312-744-7000

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

DELTA ENGINEERING GROUP, LLC
111 W. JACKSON BLVD., CHICAGO, IL 60604
MAIN 312-377-7700 FAX 312-427-6145

JACOBS 525 West Monroe
Suite 1800
Chicago, IL 60661



William J Bartolucci
8/11/2016

EXPIRES: 11-30-2017

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

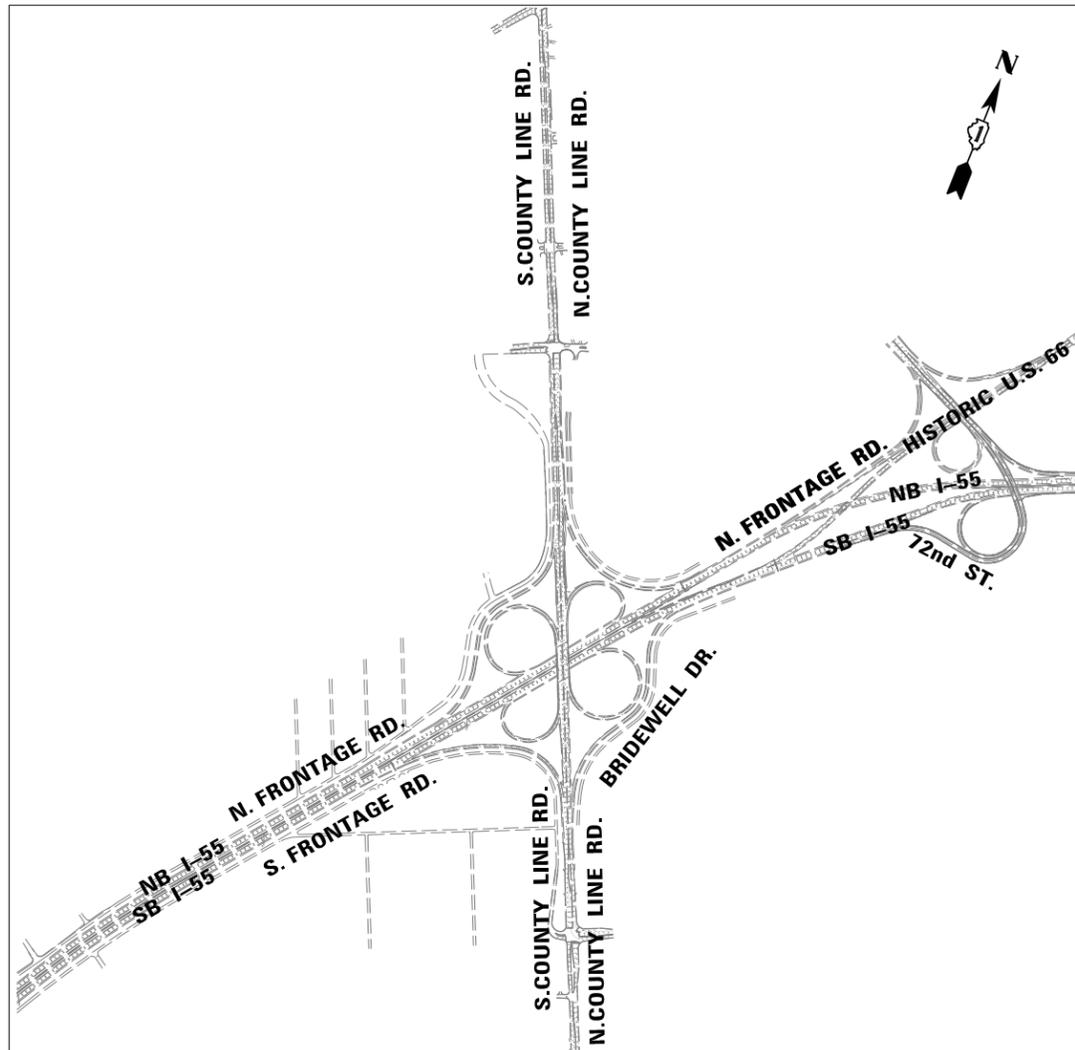
SUBMITTED 12 Aug 2016
John Fortman
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Sept 30 2016
Maureen M. Addis P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Sept 30 2016
Cher Osman P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PROJECT ENGINEER TONY GODINHO
PROJECT MANAGER MARK JENKINS
CONTRACT NO. 62A98

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**



I-55 /S. COUNTY LINE ROAD
SCALE: NONE

NEAR BY CITY OR VILLAGE: BURR RIDGE
 COUNTY: COOK

INDEX OF SHEETS

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- 2 - 5 LOCATION MAP
- 6 - 7 SUMMARY OF QUANTITIES
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- 38 - 50 PROPOSED LIGHTING PLAN
- 51 - 58 SOIL BORING LOGS
- 59 - 78 IDOT STANDARD DETAILS
- 79 - 84 PLOT OF SURVEY

IDOT HIGHWAY STANDARDS

- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 701001-02 OFF-RD OPERATIONS 2L, 2W MORE THAN 15' AWAY
- 701006-05 OFF-RD OPERATIONS 2L, 2W 15' TO 24' FROM PAVEMENT EDGE
- 701106-02 OFF-RD OPERATIONS MULTILANE, MORE THAN 15' AWAY
- 701201-04 LANE CLOSURE, 2L-2W DAY ONLY FOR SPEED > 45 MPH
- 701400-08 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-09 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701428-01 TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
- 701446-07 TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701501-06 URBAN LANE CLOSURE 2L, 2W UNDIVIDED
- 701801-06 SIDEWALK, CORNER, OR CROSSWALK CLOSURE
- 701901-05 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 782006-00 GUARDRAIL AND BARRIER REFLECTOR MOUNTING DETAILS

DISTRICT 1 STANDARDS

- BE-305 LIGHT POLE FOUNDATION, METAL
- BE-400 ALUMINUM LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT
- BE-500 HIGH MAST LIGHT TOWER 90 FT TO 110 FT (27 m TO 34 m) (3 SHEETS)
- BE-501 HIGH MAST LIGHT TOWER 90 FT TO 110 FT (27 m TO 34 m) FOUNDATION DETAIL (2 SHEETS)
- BE-505 HIGH MAST LIGHT TOWER 120 FT TO 140 FT (36 m TO 43 m) (3 SHEETS)
- BE-506 HIGH MAST LIGHT TOWER 120 FT TO 140 FT FOUNDATION DETAIL (2 SHEETS)
- BE-701 LUMINAIRE SAFETY CABLE ASSEMBLY
- BE-702 MISC. ELECTRICAL DETAILS
- TC-08 ENTRANCE AND EXIT RAMP CLOSURE DETAILS
- TC-09 TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-17 PARTIAL RAMP AND SHOULDER CLOSURE DETAILS
- TC-18 FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
- TD-05 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (4 OF 7)



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = #USER# | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = #SCALE# | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

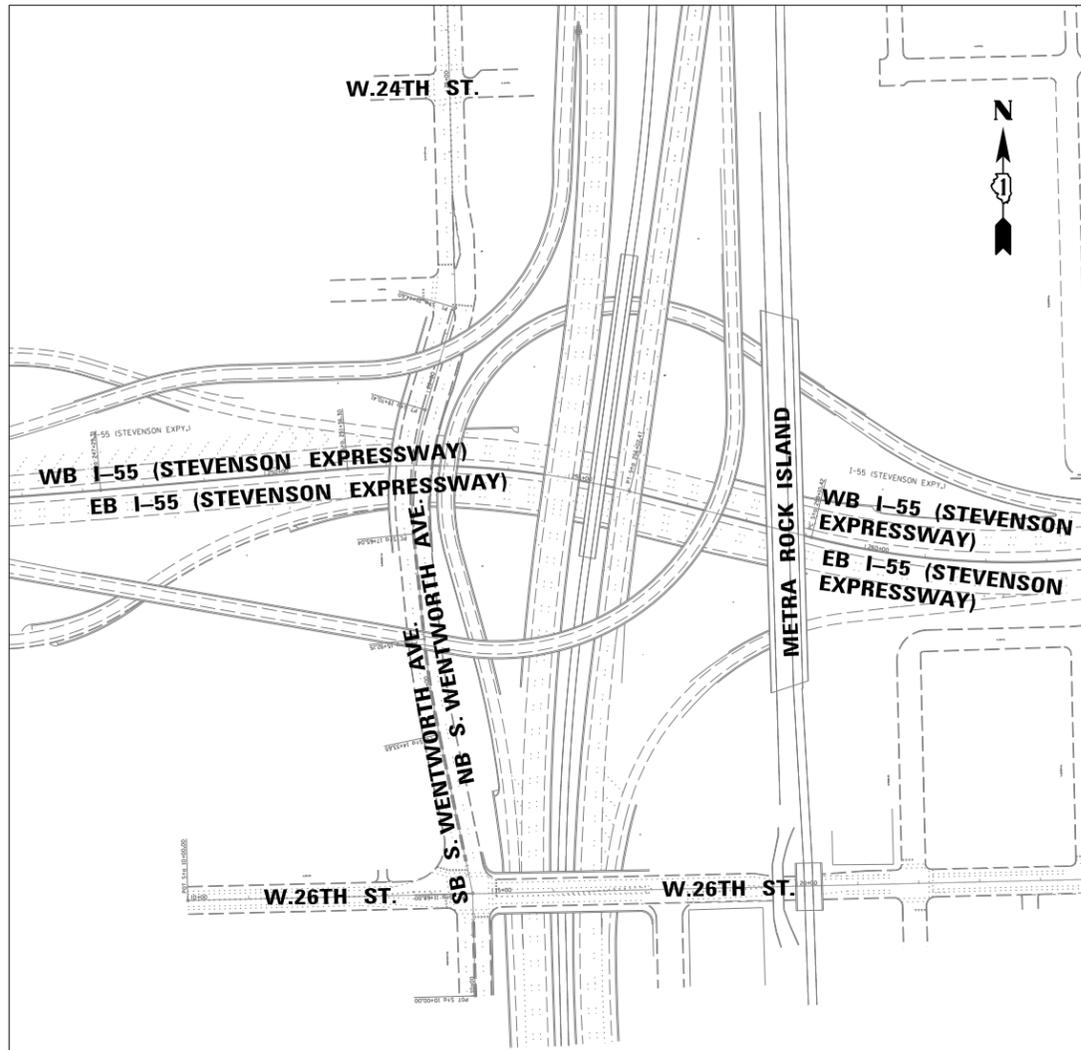
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION MAP
 SHEET 1 OF 4

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

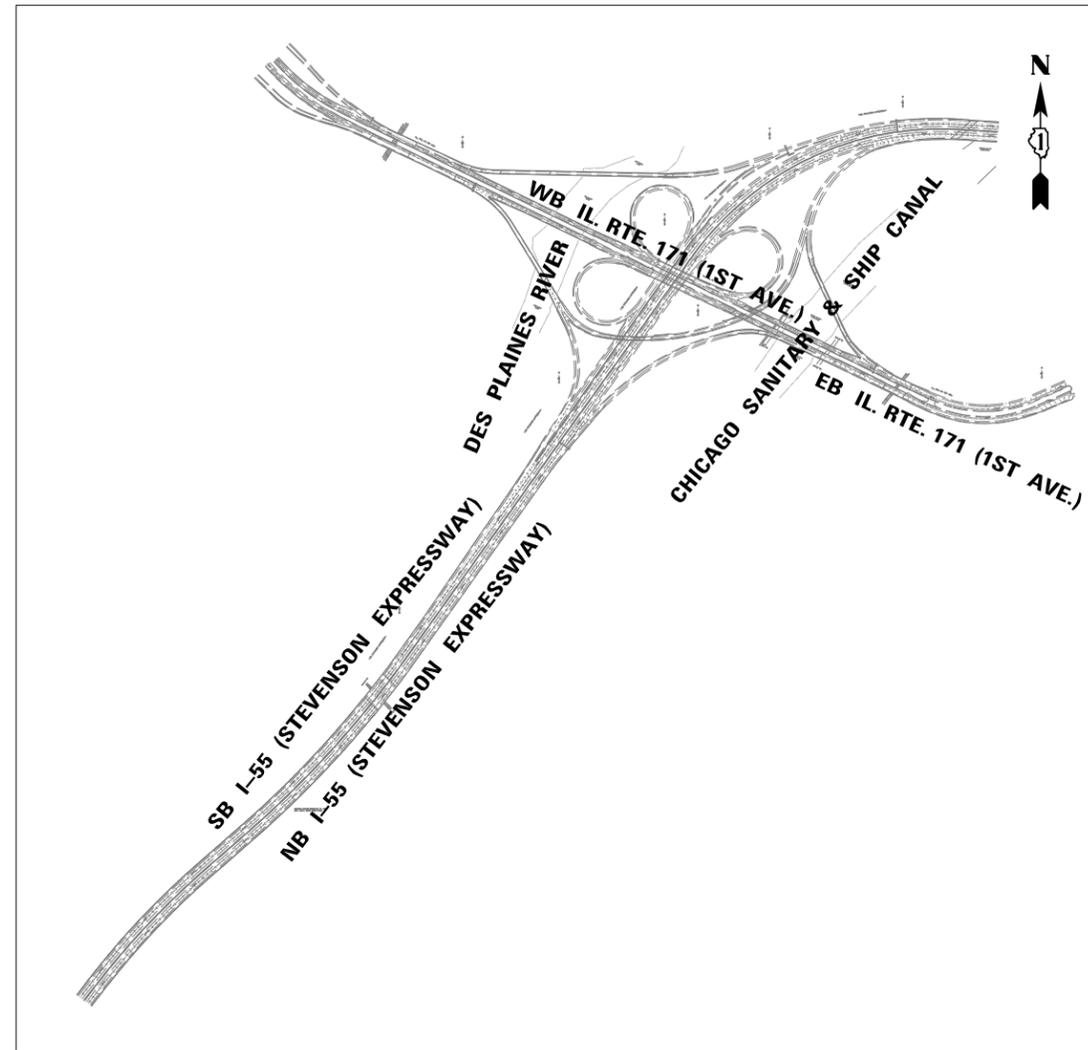
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|---------------------------|-----------|---------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | VARIOUS | 84 | 2 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

E-KP1



I-55 /WENTWORTH AVE.
SCALE: NONE

NEAR BY CITY OR VILLAGE: CHICAGO
COUNTY: COOK



I-55 /85TH AVE. (8500 W)
SCALE: NONE

NEAR BY CITY OR VILLAGE: BEDFORD PARK
COUNTY: COOK



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

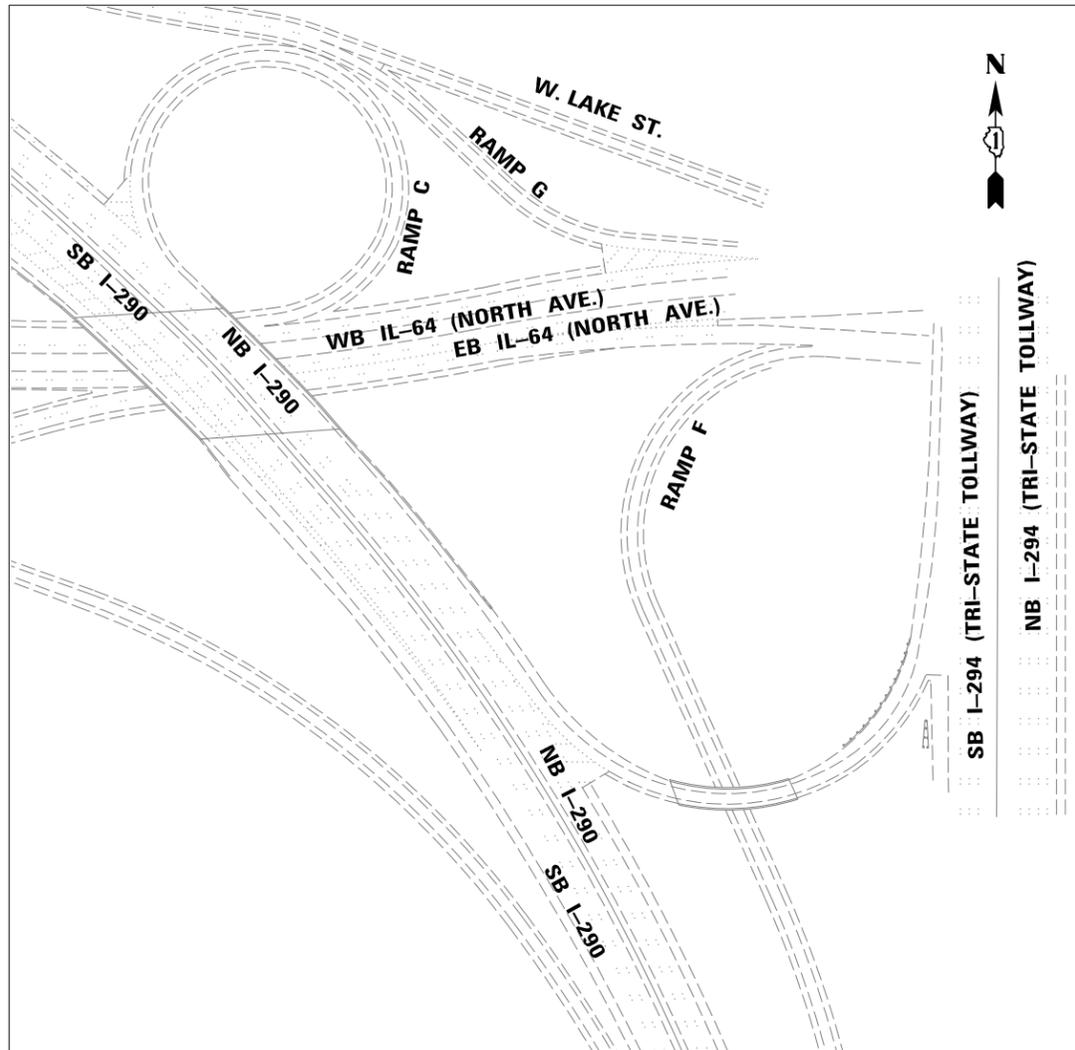
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP
SHEET 2 OF 4

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

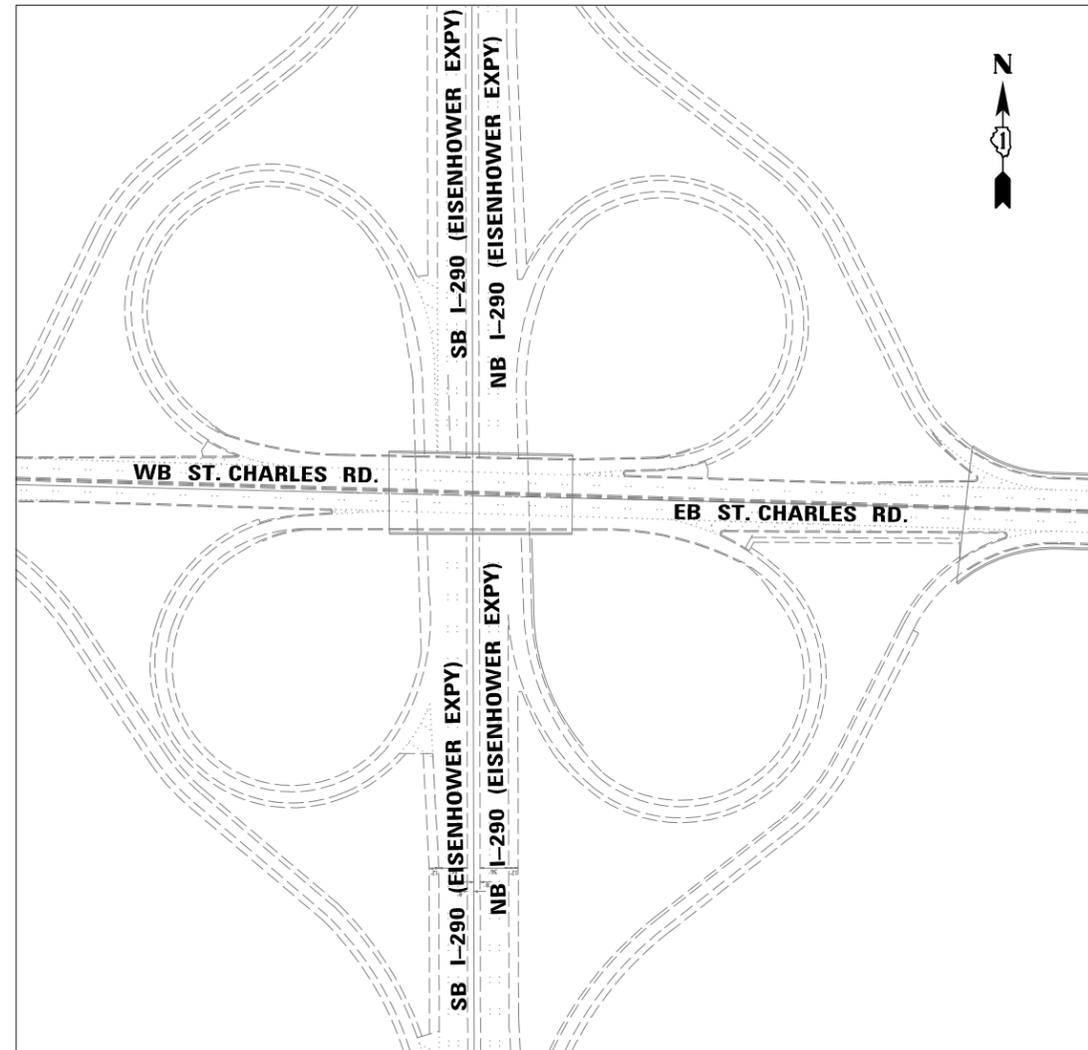
| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 3 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

E-KP2



I-290 /IL-64 (NORTH AVE.)
SCALE: NONE

NEAR BY CITY OR VILLAGE: ELMHURST/NORTHLAKE
 COUNTY: DUPAGE



I-290 /ST. CHARLES ROAD
SCALE: NONE

NEAR BY CITY OR VILLAGE: BERKELEY
 COUNTY: DUPAGE



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

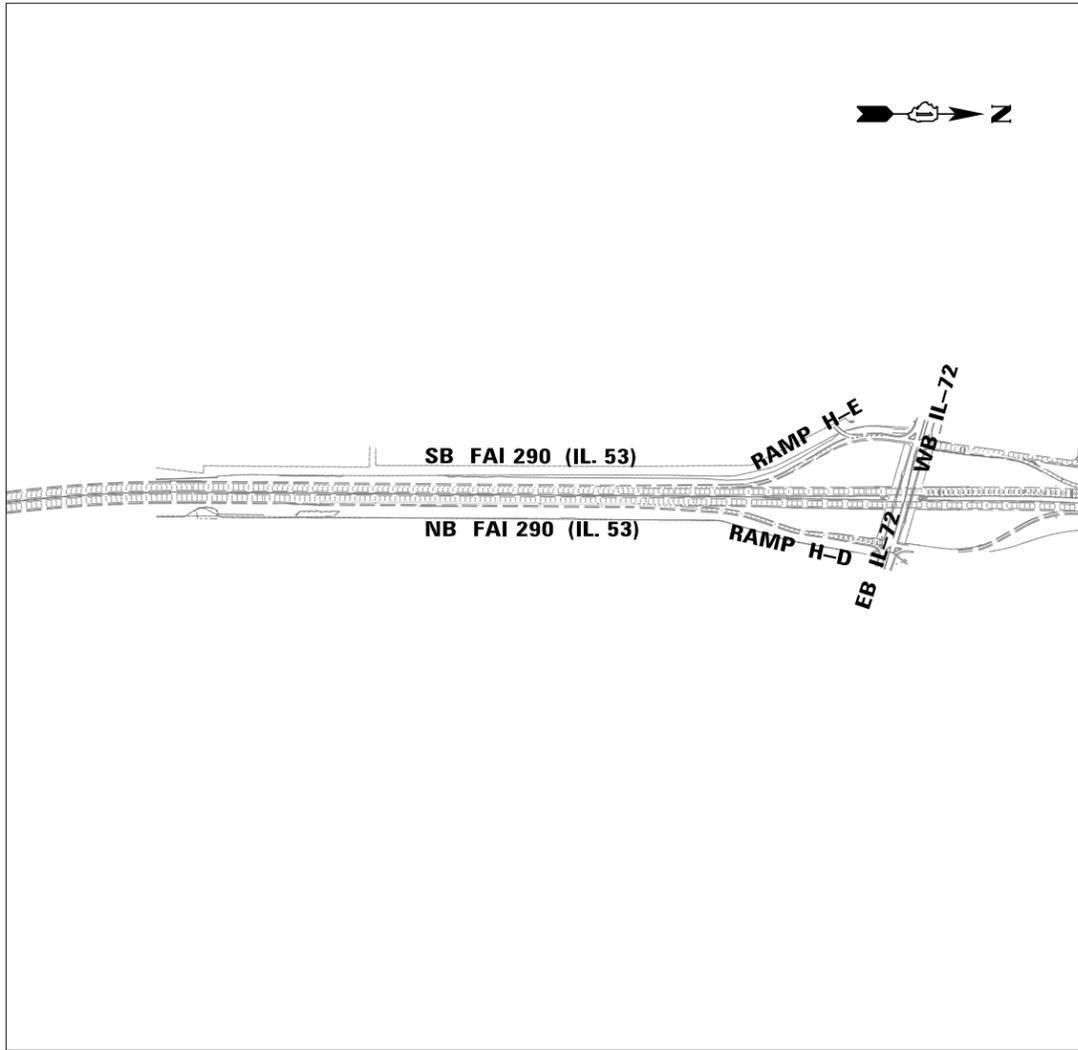
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP
SHEET 3 OF 4

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | DUPAGE | 84 | 4 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

E-KP3



I-290 /IL 53 AT SOUTH OF IL 72

SCALE: NONE

NEAR BY CITY OR VILLAGE: SCHAUMBURG
 COUNTY: COOK

E-KP4



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LOCATION MAP
 SHEET 4 OF 4**

SCALE: NONE SHEET 4 OF 4 SHEETS STA. TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|---------|--------------------|-----------|
| | 2015-039L | VARIOUS | 84 | 5 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62A98 | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | | | |
|----------|--|-------|----------------|---------------------------|---------------------------|------------------------------------|------------------------------------|
| | | | | 90% FED 10% STATE ROADWAY | 90% FED 10% STATE ROADWAY | 90% FED 10% STATE HIGHWAY LIGHTING | 90% FED 10% STATE HIGHWAY LIGHTING |
| | | | | 0005 | 0005 | 0021 | 0021 |
| | | | | COOK | DUPAGE | COOK | DUPAGE |
| 20200100 | EARTH EXCAVATION | CU YD | 60 | 52 | 8 | | |
| 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 4129 | 3959 | 170 | | |
| 25000210 | SEEDING, CLASS 2A | ACRE | 0.85 | 0.81 | 0.04 | | |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 77 | 74 | 3 | | |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 77 | 74 | 3 | | |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 77 | 74 | 3 | | |
| 25100630 | EROSION CONTROL BLANKET | SQ YD | 4129 | 3959 | 170 | | |
| 28000400 | PERIMETER EROSION BARRIER | FOOT | 1938 | 1938 | | | |
| 28000500 | INLET AND PIPE PROTECTION | EACH | 5 | 5 | | | |
| 31101200 | SUBBASE GRANULAR MATERIAL TYPE B 4" | SQ YD | 62 | 62 | | | |
| 42001300 | PROTECTIVE COAT | SQ YD | 214 | 214 | | | |
| 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | SQ FT | 558 | 558 | | | |
| 44001980 | CONCRETE BARRIER REMOVAL | FOOT | 50 | 50 | | | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | | | |
|----------|----------|---|----------------|---------------------------|---------------------------|------------------------------------|------------------------------------|
| | | | | 90% FED 10% STATE ROADWAY | 90% FED 10% STATE ROADWAY | 90% FED 10% STATE HIGHWAY LIGHTING | 90% FED 10% STATE HIGHWAY LIGHTING |
| | | | | 0005 | 0005 | 0021 | 0021 |
| | | | | COOK | DUPAGE | COOK | DUPAGE |
| ** * | 66900200 | NON-SPECIAL WASTE DISPOSAL | CU YD | 127 | 118 | 9 | |
| ** * | 66900450 | SPECIAL WASTE PLANS AND REPORTS | LSUM | 1 | 0.9 | 0.1 | |
| ** * | 66900530 | SOL. DISPOSAL ANALYSIS | EACH | 10 | 9 | 1 | |
| | 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 7 | 6 | 1 | |
| | 67100100 | MOBILIZATION | LSUM | 1 | 0.9 | 0.1 | |
| * | 70400100 | TEMPORARY CONCRETE BARRIER | FOOT | 50 | 50 | | |
| * | 70600260 | IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 | EACH | 1 | 1 | | |
| ** | 78200011 | BARRIER WALL REFLECTORS, TYPE C | EACH | 2 | 2 | | |
| | 81020240 | UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 1912 | | 1837 | 75 |
| | 81400200 | HEAVY-DUTY HANDHOLE | EACH | 1 | | | 1 |
| * | 81603061 | UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA, POLYETHYLENE | FOOT | 14550 | | 13930 | 620 |
| * | 81603090 | UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA, POLYETHYLENE | FOOT | 400 | | 400 | |
| | 81702140 | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4 | FOOT | 470 | | 470 | |
| | 81702150 | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2 | FOOT | 1410 | | 1410 | |

* - ITEM WITH SPECIAL PROVISION
** - SPECIALTY ITEM



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| PLOT SCALE = *SCALE* | DRAWN - GJ | REVISED - |
| PLOT DATE = 0/11/2016 | CHECKED - HS | REVISED - |
| | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | |
|-----------------------|----------------------------------|
| SUMMARY OF QUANTITIES | |
| SCALE: | SHEET 1 OF 2 SHEETS STA. TO STA. |

| | | | | |
|---------------------------|-----------|---------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | VARIOUS | 84 | 6 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

E-QTY1

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | | | |
|------------|---|------|----------------|---------------------------|---------------------------|------------------------------------|------------------------------------|
| | | | | 90% FED 10% STATE ROADWAY | 90% FED 10% STATE ROADWAY | 90% FED 10% STATE HIGHWAY LIGHTING | 90% FED 10% STATE HIGHWAY LIGHTING |
| | | | | 0005 COOK | 0005 DUPAGE | 0021 COOK | 0021 DUPAGE |
| 82102400 | LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT | EACH | 7 | | | 6 | 1 |
| 82105600 | LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 400 WATT | EACH | 15 | | | 15 | |
| 82105700 | LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750 WATT | EACH | 34 | | | 34 | |
| 82105800 | LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 1000 WATT | EACH | 3 | | | | 3 |
| 83050810 | LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM | EACH | 7 | | | 6 | 1 |
| * 83502500 | LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8 | EACH | 9 | | | 9 | |
| * 83503500 | LIGHT TOWER, 110 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8 | EACH | 4 | | | 3 | 1 |
| * 83505500 | LIGHT TOWER, 130 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8 | EACH | 1 | | | 1 | |
| 83600365 | LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8" | EACH | 7 | | | 6 | 1 |
| 83700300 | LIGHT TOWER FOUNDATION, 48" DIAMETER | FOOT | 213 | | | 194 | 19 |
| 83700350 | LIGHT TOWER FOUNDATION, 54" DIAMETER | FOOT | 18 | | | 18 | |
| 83800205 | BREAKAWAY DEVICE, TRANSFORMER BASE, 18 INCH BOLT CIRCLE | EACH | 7 | | | 6 | 1 |
| * 84100110 | REMOVAL OF TEMPORARY LIGHTING UNIT | EACH | 21 | | | 21 | |
| * Z0033020 | LUMINAIRE SAFETY CABLE ASSEMBLY | EACH | 7 | | | 6 | 1 |

14

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | | | |
|---------------|--|--------|----------------|---------------------------|---------------------------|------------------------------------|------------------------------------|
| | | | | 90% FED 10% STATE ROADWAY | 90% FED 10% STATE ROADWAY | 90% FED 10% STATE HIGHWAY LIGHTING | 90% FED 10% STATE HIGHWAY LIGHTING |
| | | | | 0005 COOK | 0005 DUPAGE | 0021 COOK | 0021 DUPAGE |
| ** * X6370050 | CONCRETE BARRIER WALL (SPECIAL) | FOOT | 50 | 50 | | | |
| φ Z0076600 | TRAINEES | Hour | 1000 | 1000 | | | |
| * X7010216 | TRAFFIC CONTROL AND PROTECTION, (SPECIAL) | LSUM | 1 | 0.9 | 0.1 | | |
| φ Z0076604 | TRAINEES TRAINING PROGRAM GRADUATE | Hour | 1000 | 1000 | | | |
| * X7011015 | TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) | LSUM | 1 | 0.84 | 0.16 | | |
| * X8420502 | REMOVAL OF LIGHT TOWER, NO SALVAGE | EACH | 11 | | | 9 | 2 |
| * X8420510 | REMOVAL OF TOWER FOUNDATION | EACH | 17 | | | 15 | 2 |
| * X1400190 | REMOVE HIGH MAST LUMINAIRE, SALVAGE | EACH | 41 | | | 35 | 6 |
| * X1400195 | MAINTENANCE OF LIGHTING SYSTEM, LOCATION 5 | CAL MO | 6 | | | 6 | |
| * X1400196 | MAINTENANCE OF LIGHTING SYSTEM, LOCATION 6 | CAL MO | 6 | | | 6 | |
| * X1400197 | MAINTENANCE OF LIGHTING SYSTEM, LOCATION 1 | CAL MO | 7 | | | 7 | |
| * X1400192 | MAINTENANCE OF LIGHTING SYSTEM, LOCATION 2 | CAL MO | 6 | | | 6 | |
| * X1400193 | MAINTENANCE OF LIGHTING SYSTEM, LOCATION 3 | CAL MO | 6 | | | | 6 |
| * X1400194 | MAINTENANCE OF LIGHTING SYSTEM, LOCATION 4 | CAL MO | 6 | | | | 6 |
| * X1400197 | MAINTENANCE OF LIGHTING SYSTEM, LOCATION 7 | CAL MO | 6 | | | 6 | |

15

* - ITEM WITH SPECIAL PROVISION
 ** - SPECIALTY ITEM
 φ - 004Z



| | | |
|----------------------------|-------------------|-----------|
| USER NAME - khkhan | DESIGNED - HM | REVISED - |
| PLOT SCALE - 100.0000 / 1" | DRAWN - GJ | REVISED - |
| PLOT DATE - 8/11/2016 | CHECKED - HS | REVISED - |
| | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|---------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | VARIOUS | 84 | 7 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62A98 | |

E-QTY2

Tower Replacement Grouped per Location

Tower Information

| Item # | Lighting Controller "L" Number | Lighting Controller Designation | TOWER Structure No. | County | Nearby City or Village | Main Route | Cross St | Existing Latitude | Existing Longitude | PROPOSED HIGH MAST LUMINAIRE (QUANTITY-WATTAGE) | LUMINAIRE VOLTAGE | EXISTING High Mast Luminaires to be SALVAGED | EXISTING TOWERS TO BE REMOVED NO SALVAGE | EXISTING TOWERS THAT HAVE BEEN REMOVED | EXISTING Foundations to be Removed | EXISTING Tower Height (FEET) | PROPOSED TOWER HEIGHT (FEET) | PROPOSED RECOMMENDED FOUNDATION Depth (FEET) | PROPOSED FOUNDATION DIAMETER (INCHES) |
|--------|--------------------------------|---------------------------------|---------------------|--------|------------------------|-------------|---|-------------------|--------------------|---|-------------------|--|--|--|------------------------------------|------------------------------|------------------------------|--|---------------------------------------|
| 11 | L0195 | T | 5TIJ1 | Cook | Burr Ridge | I-55 | County Line Rd | 41.75717 | -87.91393 | 5-750W | 240 | | | X | X | 100 | 100 | 15.5 | 48 |
| 12 | L0195 | T | 3TKL3 | Cook | Burr Ridge | I-55 | County Line Rd | 41.76226 | -87.91642 | 3-750W | 240 | | | X | X | 100 | 100 | 15.5 | 48 |
| 13 | L0195 | T | 3TOP3 | Cook | Burr Ridge | I-55 | County Line Rd | 41.75512 | -87.92046 | 3-750W | 240 | | | X | X | 100 | 100 | 15.5 | 48 |
| 16 | L0195 | T | 4TEF3 | Cook | Burr Ridge | I-55 | County Line Rd | 41.75509 | -87.91482 | 4-750W | 240 | | | X | X | 100 | 100 | 15.5 | 48 |
| 18 | L0195 | T | 3TEF1 | Cook | Burr Ridge | I-55 | County Line Rd | 41.75605 | -87.91372 | 3-750W | 240 | | | X | X | 100 | 100 | 13.5 | 48 |
| 19 | L0195 | T | 4TAB3 | Cook | Burr Ridge | I-55 | County Line Rd | 41.75267 | -87.92421 | NONE | 240 | 4-750W | X | | X | 100 | NONE | NONE | NONE |
| 22 | L0195 | T | 4TCD1 | Cook | Burr Ridge | I-55 | County Line Rd | 41.75571 | -87.91612 | 4-750W | 240 | 4-750W | X | | X | 100 | 100 | 15.5 | 48 |
| 24 | L0195 | T | 3TMN3 | Cook | Burr Ridge | I-55 | County Line Rd | 41.75988 | -87.91626 | 3-750W | 240 | 3-750W | X | | X | 100 | 100 | 25 | 48 |
| 25 | L0195 | T | 3TGH4 | Cook | Burr Ridge | I-55 | County Line Rd | 41.75337 | -87.91532 | 3-750W | 240 | 3-750W | X | | X | 100 | 100 | 13.5 | 48 |
| 26 | L0195 | T | 4TOP1 | Cook | Burr Ridge | I-55 | County Line Rd | 41.75665 | -87.91689 | 4-750W | 240 | 4-750W | X | | X | 100 | 100 | 15.5 | 48 |
| 32 | L0195 | T | 4TAB2 | Cook | Burr Ridge | I-55 | County Line Rd | 41.75312 | -87.92319 | NONE | 240 | 4-750W | X | | X | 100 | NONE | NONE | NONE |
| 15 | L1510 | N | 4NCD3 | Cook | Schaumburg | I-290/IL 53 | S of IL 72 (Higgins Rd) North of Biesterfield | 42.013813 | -88.029588 | 4-400W | 240 | | | X | X | 110 | 110 | 14 | 48 |
| 35 | L1510 | N | 6NIJ1 | Cook | Schaumburg | I-290/IL 53 | S of IL 72 (Higgins Rd) | 42.034088 | -88.030427 | 6-400W | 240 | 6-400W | X | | X | 110 | 110 | 16 | 48 |
| 20 | L1405 | W | 3WGH10 | DuPage | Berkeley | I-290 | St Charles Rd | 41.889477 | -87.918709 | 3-1000W | 240 | 3-1000W | X | | X | 110 | 110 | 19 | 48 |
| 23 | L1410 | X | 3XEF4 | DuPage | Elmhurst / Northlake | I-290/I-294 | IL 64 (North Ave) | 41.905053 | -87.920138 | NONE | 240 | 3-1000W | X | | X | 100 | NONE | NONE | NONE |
| 31 | L0110 | C | 5CCD6 | Cook | Chicago | I-55 | Wentworth Ave | 41.847719 | -87.630438 | 5-400W | 240 | 5-400W | X | | X | 110 | 110 | 19 | 48 |
| 34 | L0180 | O | 2OGH4 | Cook | Bedford Park | I-55 | 85th Ave (8500W) (South of IL171) | 41.779951 | -87.836463 | 2-750W | 240 | 2-750W | X | | X | 130 | 130 | 18 | 54 |

E-TLC

| | | | | | | | | | | |
|---|-----------------------|-------------------|-----------|---|--|--------------------|---------------------|--------------|---------------------------|-----------|
|  DELTA ENGINEERING GROUP, LLC | USER NAME = *USER* | DESIGNED - HM | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TOWER REPLACEMENT GROUPED PER LOCATION | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | DRAWN - GJ | REVISED - | 2015-039L | | | VARIOUS | 84 | 8 | | |
| | PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - | | | CONTRACT NO. 62A98 | | | | |
| | PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - | | | SCALE: | SHEET 1 OF 1 SHEETS | STA. TO STA. | ILLINOIS FED. AID PROJECT | |

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE CONTRACTOR'S VEHICLES MUST ALWAYS MOVE WITH AND NOT AGAINST OR ACROSS THE FLOW OF TRAFFIC, AND THEY MUST ENTER OR LEAVE WORK AREAS IN A MANNER WHICH IS NOT HAZARDOUS TO TRAFFIC AND WILL NOT INTERFERE WITH NORMAL TRAFFIC. THE CONTRACTOR'S VEHICLES MUST NOT PARK OR STOP EXCEPT WITHIN DESIGNATED WORK AREAS. PERSONAL VEHICLES ARE NOT PERMITTED TO PARK WITHIN THE RIGHT-OF-WAY EXCEPT IN AREAS DESIGNATED BY THE COMMISSIONER.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE FIELD FIT TO CONDITIONS AS DIRECTED BY THE ENGINEER.
3. ALL SIGNS THAT ARE TO BE IN PLACE MORE THAN 4 DAYS SHALL BE MOUNTED ON METAL POSTS WHEN POSSIBLE, 7 FEET FROM THE TOP OF PAVEMENT TO THE BOTTOM OF THE SIGN, AND DRIVEN A MINIMUM OF 3 FEET INTO THE GROUND. A DIGGER LOCATE SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF THE POSTS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
4. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER; ANY SIGNS OR DEVICES LEFT IN PLACE ARE TO BE PROTECTED FROM DAMAGE AND MAINTAINED.
5. BORING PITS ARE TO BE PLACED AT LEAST 15' FROM THE TRAVELED WAY ON THE MAINLINE TO ELIMINATE THE NEED FOR TRAFFIC CONTROL AND PROTECTION PER IDOT HIGHWAY STANDARD 701106-02.
6. USE IDOT DISTRICT 1 STANDARD TC-17 ON RAMPS AND SHOULDER CLOSURES ON I-55 AND I-290 WHERE REQUIRED.
7. USE IDOT HIGHWAY STANDARD 701001-02, 701006-05, 701101-05 AND 701201-04 ON FRONTAGE ROADS WHERE REQUIRED.
8. USE IDOT HIGHWAY STANDARD 701801-06 FOR SIDEWALK CLOSURES WHERE REQUIRED.
9. IF BORING PIT IS LOCATED WITHIN THE CLEAR ZONE BUT OUTSIDE OF CONSTRUCTION CLEAR ZONE, TRAFFIC CONTROL AND PROTECTION MUST REMAIN IN PLACE ADJACENT TO BORING PIT UNTIL EXCAVATED AREA IS FILLED.
10. TOWER ASSEMBLY LAYDOWN AREAS MUST BE APPROVED BY THE ENGINEER PRIOR TO USE. ADDITIONAL TRAFFIC CONTROL WILL NOT BE PROVIDED SOLELY FOR TOWER LAYDOWN AREAS.

THE FOLLOWING STANDARDS ARE TO BE APPLIED TO EACH SITE:

I-55 AT COUNTY LINE RD: TC-09, TC-10, TC-17, 701001-02, 701201-04, 701501-06, 701601-09, 701801-06

I-290 AT BIESTERFIELD RD: TC-17

I-290 AT ST. CHARLES RD: TC-17

I-290 AT IL 64: TC-17

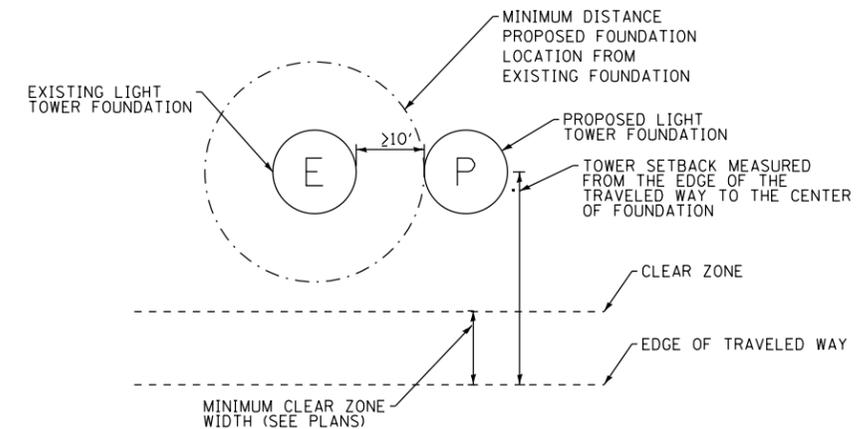
I-55 AT WENTWORTH AVE: TC-08, TC-17

I-55 AT 85TH AVE: TC-18, 643001-02, 701400-08, 701401-09, 701428-01, 701446-07, 704001-08, 782006-00

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. THE CONSTRUCTION LIMITS WILL BE STAKED AND APPROVED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGES IN CONSTRUCTION LIMITS.
2. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE START OF CONSTRUCTION OPERATIONS WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS. PLACEMENT AND MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION LIMITS.
3. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
4. TEMPORARY EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS AND CONTRACT SPECIAL PROVISIONS.
5. ALL EROSION CONTROL MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES.
6. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN HIGHWAY STANDARD 280001.
7. THE EROSION CONTROL MEASURES SHOWN ARE A REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
8. TEMPORARY STOCKPILE LOCATIONS SHALL BE APPROVED BY THE ENGINEER AND WILL REQUIRE PERIMETER EROSION BARRIER AND TEMPORARY SEEDING WHICH ARE INCLUDED IN THE COST OF DIRECTIONAL BORE.
9. THE CONTRACTOR SHALL INSTALL AND MAINTAIN INLET AND PIPE PROTECTION AT ALL LOCATIONS SHOWN IN PLANS PRIOR TO THE START OF WORK. THE INLET AND PIPE PROTECTION SHALL BE MAINTAINED UNTIL NO LONGER REQUIRED OR AS DIRECTED BY THE ENGINEER.
10. DURING CONSTRUCTION OPERATIONS, WHEN ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY.
11. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF INLET AND PIPE PROTECTION.
12. FOR PERMANENT EROSION CONTROL, THE CONTRACTOR SHALL PLACE TOPSOIL SO THAT IS HAS A BOND WITH THE EXISTING SURFACE TO WHICH IT IS APPLIED. IT SHALL BE DISKED, RAKED, OR OTHERWISE BROKEN UP IF NECESSARY TO PROVIDE SUCH BOND.

LIGHT TOWER FOUNDATION ZONE OF INFLUENCE DETAIL



C:\08-Civil\DrawNotes.dgn

JACOBS

| | | |
|-------------------------------|-----------------|-----------|
| USER NAME = malanesj | DESIGNED - SJM | REVISED - |
| | DRAWN - SJM | REVISED - |
| PLOT SCALE = 100.0000' / 1in. | CHECKED - WJB | REVISED - |
| PLOT DATE = 8/9/2016 | DATE - 07/18/16 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CIVIL SITE PLAN
GENERAL NOTES**

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | 2015-039L | | 84 | 9 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

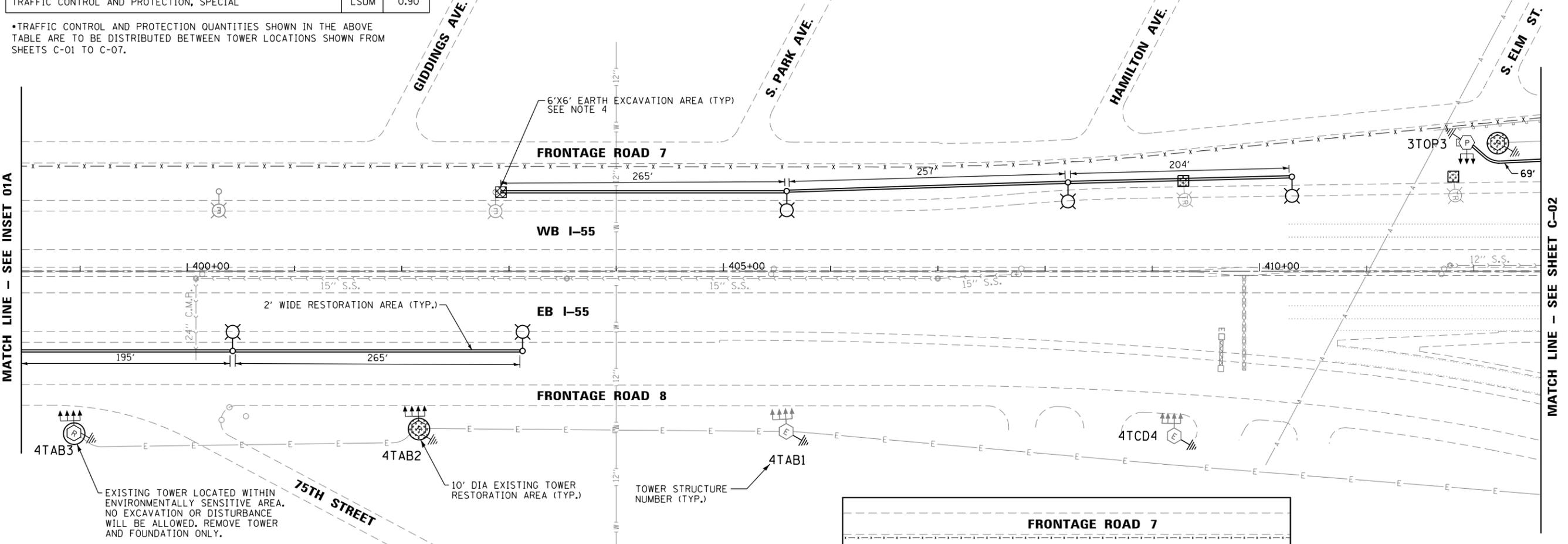
C-00

| PAY ITEM | DESCRIPTION | UNIT | QTY |
|--|-------------|-------|------|
| SEEDING, CLASS 2A | | ACRE | 0.08 |
| NITROGEN FERTILIZER NUTRIENT | | POUND | 7 |
| PHOSPHORUS FERTILIZER NUTRIENT | | POUND | 7 |
| POTASSIUM FERTILIZER NUTRIENT | | POUND | 7 |
| EROSION CONTROL BLANKET | | SQ YD | 403 |
| TOPSOIL FURNISH AND PLACE, 4" | | SQ YD | 403 |
| TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) | | LSUM | 0.63 |
| TRAFFIC CONTROL AND PROTECTION, SPECIAL | | LSUM | 0.90 |

•TRAFFIC CONTROL AND PROTECTION QUANTITIES SHOWN IN THE ABOVE TABLE ARE TO BE DISTRIBUTED BETWEEN TOWER LOCATIONS SHOWN FROM SHEETS C-01 TO C-07.

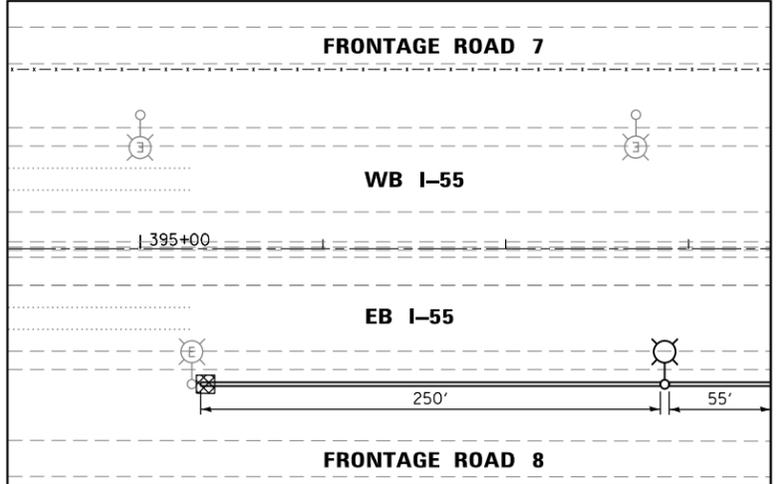
LEGEND

| | | | |
|--|--|--|--------------------------------|
| | 10'x10' TEMPORARY LIGHTING UNIT RESTORATION AREA | | PROPOSED LIGHT TOWER |
| | 10' DIA. EXISTING TOWER RESTORATION AREA | | REMOVED LIGHT TOWER |
| | 2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED) | | EXISTING LIGHT TOWER TO REMAIN |
| | UNIT DUCT DIRECT BORE | | TEMPORARY LIGHTING UNIT |
| | 10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED) | | EXISTING LIGHTING UNIT |
| | EXISTING UNIT DUCT | | PROPOSED LIGHTING UNIT |
| | 6'x6' EARTH EXCAVATION AREA | | |



| TOWER NO. | DESIGN SPEED (M.P.H.) | ADT | CLEAR ZONE (FT.) | ROADWAY FACILITY | TOWER SETBACK (FT.) |
|-----------|-----------------------|--------|------------------|------------------|---------------------|
| 3TOP3 | 40 | 3800 | 16 | FRONTAGE RD 7 | 20 |
| | 60 | 157600 | 44 | I-55 | 50 |

- NOTES:**
- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE OUTSIDE OF THE RESTORATION AREA LIMITS AS SHOWN IN THE PLANS.
 - CLEAR ZONE DISTANCES OBTAINED FROM IDOT BDE FIGURE 38-3.A BASED ON 4:1 FRONT SLOPE.
 - AREA OF RESTORATION INCLUDES SEEDING, NUTRIENTS, EROSION CONTROL BARRIER AND TOPSOIL.
 - WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING LIGHTING UNIT, WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN THE EXISTING FOUNDATION.



C-01- 1558County.mef.dgn



| | | |
|------------------------------|-----------------|-----------|
| USER NAME = malanesj | DESIGNED - SJM | REVISED - |
| PLOT SCALE = 100.0000' / in. | DRAWN - SJM | REVISED - |
| PLOT DATE = 8/9/2016 | CHECKED - WJB | REVISED - |
| | DATE - 07/18/16 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CIVIL SITE PLAN
I-55 / S. COUNTY LINE ROAD - SHEET 1 OF 7
SCALE: 1"=50' SHEET OF SHEETS STA. 398+45 TO STA. 412+62

| | | | | |
|--------------------|-----------|--------|---------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | 2015-039L | COOK | 84 | 10 |
| CONTRACT NO. 62A98 | | | ILLINOIS FED. AID PROJECT | |

C-01

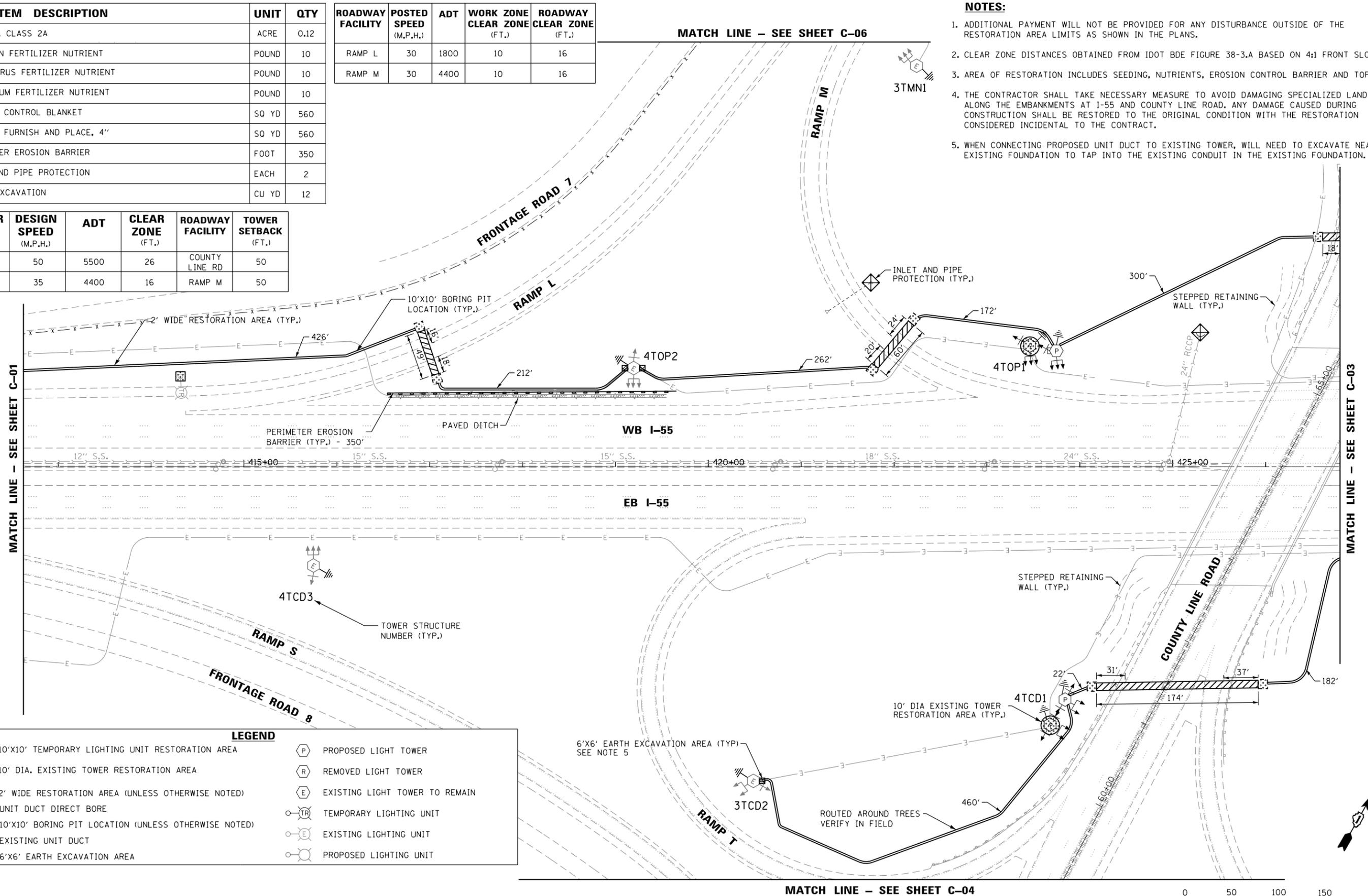
| PAY ITEM DESCRIPTION | UNIT | QTY |
|--------------------------------|-------|------|
| SEEDING, CLASS 2A | ACRE | 0.12 |
| NITROGEN FERTILIZER NUTRIENT | POUND | 10 |
| PHOSPHORUS FERTILIZER NUTRIENT | POUND | 10 |
| POTASSIUM FERTILIZER NUTRIENT | POUND | 10 |
| EROSION CONTROL BLANKET | SQ YD | 560 |
| TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 560 |
| PERIMETER EROSION BARRIER | FOOT | 350 |
| INLET AND PIPE PROTECTION | EACH | 2 |
| EARTH EXCAVATION | CU YD | 12 |

| TOWER NO. | DESIGN SPEED (M.P.H.) | ADT | CLEAR ZONE (FT.) | ROADWAY FACILITY | TOWER SETBACK (FT.) |
|-----------|-----------------------|------|------------------|------------------|---------------------|
| 4TCD1 | 50 | 5500 | 26 | COUNTY LINE RD | 50 |
| 4TOP1 | 35 | 4400 | 16 | RAMP M | 50 |

| ROADWAY FACILITY | POSTED SPEED (M.P.H.) | ADT | WORK ZONE CLEAR ZONE (FT.) | ROADWAY CLEAR ZONE (FT.) |
|------------------|-----------------------|------|----------------------------|--------------------------|
| RAMP L | 30 | 1800 | 10 | 16 |
| RAMP M | 30 | 4400 | 10 | 16 |

NOTES:

- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE OUTSIDE OF THE RESTORATION AREA LIMITS AS SHOWN IN THE PLANS.
- CLEAR ZONE DISTANCES OBTAINED FROM IDOT BDE FIGURE 38-3.A BASED ON 4:1 FRONT SLOPE.
- AREA OF RESTORATION INCLUDES SEEDING, NUTRIENTS, EROSION CONTROL BARRIER AND TOPSOIL.
- THE CONTRACTOR SHALL TAKE NECESSARY MEASURE TO AVOID DAMAGING SPECIALIZED LANDSCAPING ALONG THE EMBANKMENTS AT I-55 AND COUNTY LINE ROAD. ANY DAMAGE CAUSED DURING CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITION WITH THE RESTORATION CONSIDERED INCIDENTAL TO THE CONTRACT.
- WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING TOWER, WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN THE EXISTING FOUNDATION.



| LEGEND | |
|--------|--|
| | 10'x10' TEMPORARY LIGHTING UNIT RESTORATION AREA |
| | 10' DIA. EXISTING TOWER RESTORATION AREA |
| | 2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED) |
| | UNIT DUCT DIRECT BORE |
| | 10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED) |
| | EXISTING UNIT DUCT |
| | 6'x6' EARTH EXCAVATION AREA |
| | PROPOSED LIGHT TOWER |
| | REMOVED LIGHT TOWER |
| | EXISTING LIGHT TOWER TO REMAIN |
| | TEMPORARY LIGHTING UNIT |
| | EXISTING LIGHTING UNIT |
| | PROPOSED LIGHTING UNIT |



C-02 - I55@CountyLineRd.dgn

| | | | |
|---------------|-------------------------------|-----------------|-----------|
| JACOBS | USER NAME = malanesj | DESIGNED - SJM | REVISED - |
| | PLOT SCALE = 100.0000' / 1in. | DRAWN - SJM | REVISED - |
| | PLOT DATE = 8/9/2016 | CHECKED - WJB | REVISED - |
| | | DATE - 07/18/16 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CIVIL SITE PLAN
I-55 / S. COUNTY LINE ROAD - SHEET 2 OF 7**

SCALE: 1"=50' SHEET OF SHEETS STA. 412+65 TO STA. 426+80

| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | 2015-039L | COOK | 84 | 11 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

C-02

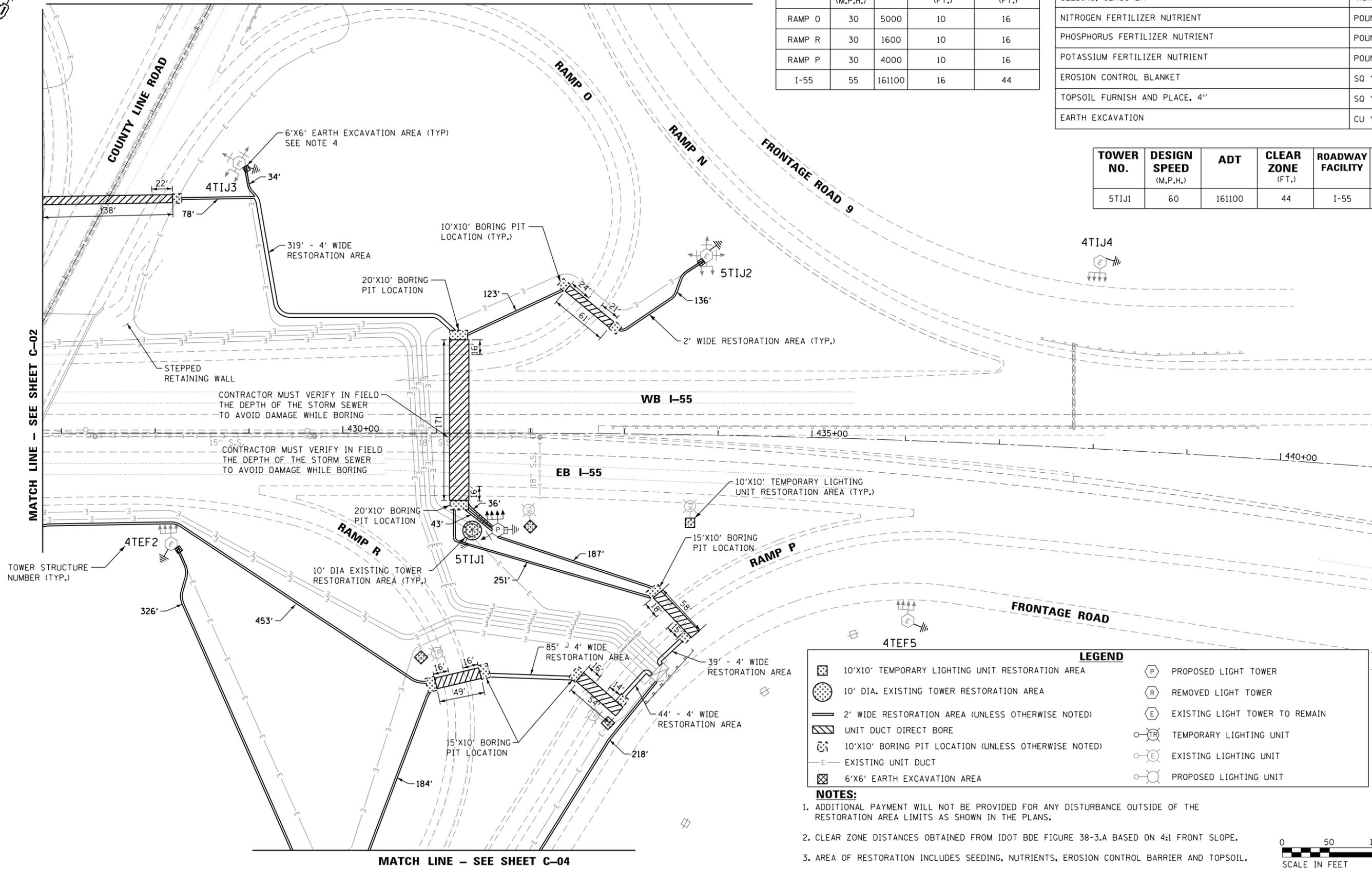


MATCH LINE - SEE SHEET C-06

| ROADWAY FACILITY | POSTED SPEED (M.P.H.) | ADT | WORK ZONE CLEAR ZONE (FT.) | ROADWAY CLEAR ZONE (FT.) |
|------------------|-----------------------|--------|----------------------------|--------------------------|
| RAMP O | 30 | 5000 | 10 | 16 |
| RAMP R | 30 | 1600 | 10 | 16 |
| RAMP P | 30 | 4000 | 10 | 16 |
| I-55 | 55 | 161100 | 16 | 44 |

| PAY ITEM DESCRIPTION | UNIT | QTY |
|--------------------------------|-------|------|
| SEEDING, CLASS 2A | ACRE | 0.25 |
| NITROGEN FERTILIZER NUTRIENT | POUND | 23 |
| PHOSPHORUS FERTILIZER NUTRIENT | POUND | 23 |
| POTASSIUM FERTILIZER NUTRIENT | POUND | 23 |
| EROSION CONTROL BLANKET | SQ YD | 1222 |
| TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 1222 |
| EARTH EXCAVATION | CU YD | 12 |

| TOWER NO. | DESIGN SPEED (M.P.H.) | ADT | CLEAR ZONE (FT.) | ROADWAY FACILITY | TOWER SETBACK (FT.) |
|-----------|-----------------------|--------|------------------|------------------|---------------------|
| 5TIJ1 | 60 | 161100 | 44 | I-55 | 50 |



MATCH LINE - SEE SHEET C-02

CONTRACTOR MUST VERIFY IN FIELD THE DEPTH OF THE STORM SEWER TO AVOID DAMAGE WHILE BORING

LEGEND

| | | | |
|--|--|--|--------------------------------|
| | 10'x10' TEMPORARY LIGHTING UNIT RESTORATION AREA | | PROPOSED LIGHT TOWER |
| | 10' DIA. EXISTING TOWER RESTORATION AREA | | REMOVED LIGHT TOWER |
| | 2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED) | | EXISTING LIGHT TOWER TO REMAIN |
| | UNIT DUCT DIRECT BORE | | TEMPORARY LIGHTING UNIT |
| | 10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED) | | EXISTING LIGHTING UNIT |
| | EXISTING UNIT DUCT | | PROPOSED LIGHTING UNIT |
| | 6'x6' EARTH EXCAVATION AREA | | |

- NOTES:**
- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE OUTSIDE OF THE RESTORATION AREA LIMITS AS SHOWN IN THE PLANS.
 - CLEAR ZONE DISTANCES OBTAINED FROM IDOT BDE FIGURE 38-3.A BASED ON 4:1 FRONT SLOPE.
 - AREA OF RESTORATION INCLUDES SEEDING, NUTRIENTS, EROSION CONTROL BARRIER AND TOPSOIL.
 - WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING TOWER, WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN THE EXISTING FOUNDATION.



C-03

C-03 - I55@CountyLine.dgn



| | | |
|-------------------------------|-----------------|-----------|
| USER NAME = malanesj | DESIGNED - SJM | REVISED - |
| | DRAWN - SJM | REVISED - |
| PLOT SCALE = 100.0000' / 1" = | CHECKED - WJB | REVISED - |
| PLOT DATE = 8/9/2016 | DATE - 07/18/16 | REVISED - |

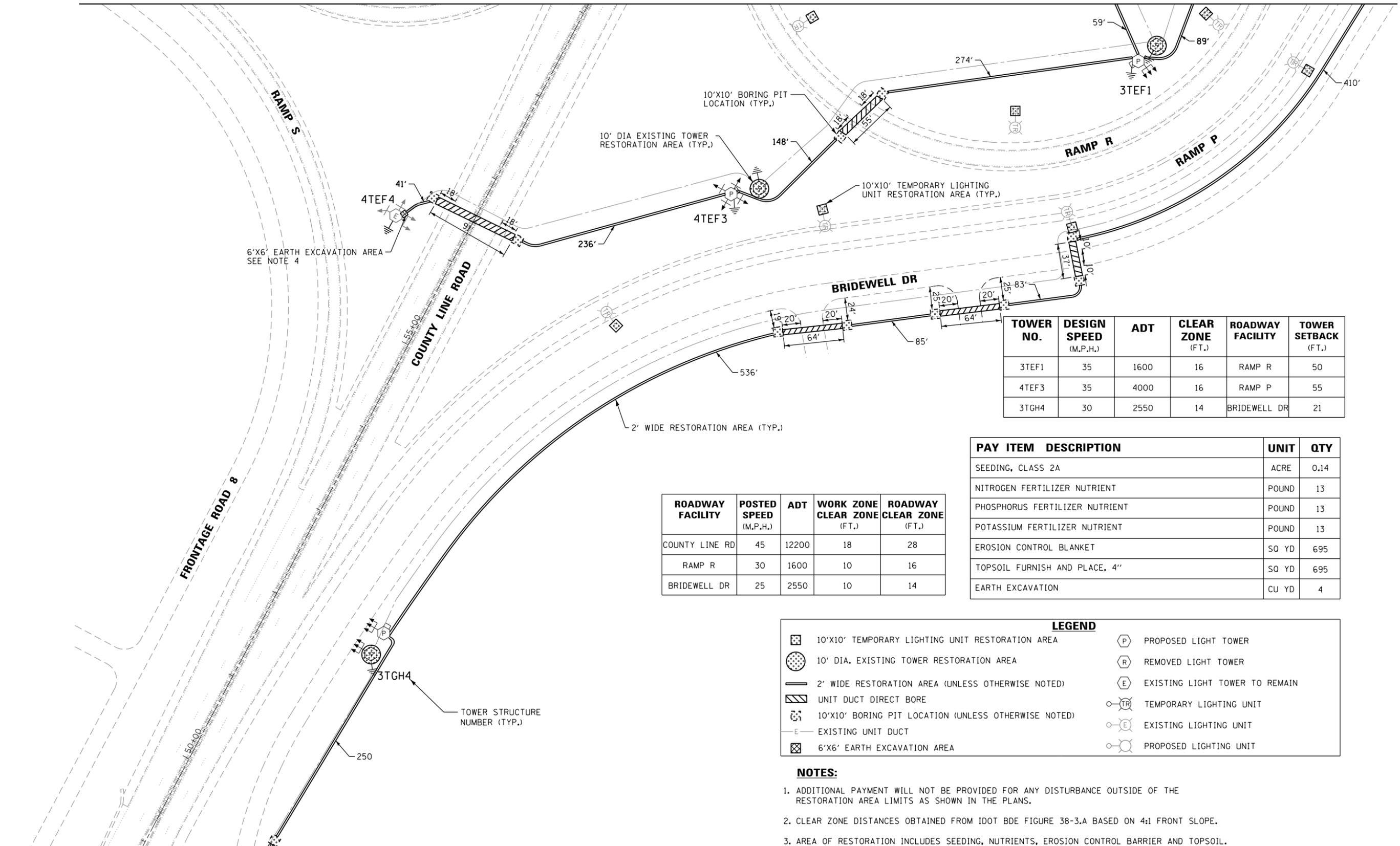
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CIVIL SITE PLAN
I-55 / S. COUNTY LINE ROAD - SHEET 3 OF 7
SCALE: 1"=50' SHEET OF SHEETS STA. 426+80 TO STA. 440+98

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | 2015-039L | COOK | 84 | 12 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

MATCH LINE - SEE SHEET C-02

MATCH LINE - SEE SHEET C-03



| TOWER NO. | DESIGN SPEED (M.P.H.) | ADT | CLEAR ZONE (FT.) | ROADWAY FACILITY | TOWER SETBACK (FT.) |
|-----------|-----------------------|------|------------------|------------------|---------------------|
| 3TEF1 | 35 | 1600 | 16 | RAMP R | 50 |
| 4TEF3 | 35 | 4000 | 16 | RAMP P | 55 |
| 3TGH4 | 30 | 2550 | 14 | BRIDEWELL DR | 21 |

| PAY ITEM DESCRIPTION | UNIT | QTY |
|--------------------------------|-------|------|
| SEEDING, CLASS 2A | ACRE | 0.14 |
| NITROGEN FERTILIZER NUTRIENT | POUND | 13 |
| PHOSPHORUS FERTILIZER NUTRIENT | POUND | 13 |
| POTASSIUM FERTILIZER NUTRIENT | POUND | 13 |
| EROSION CONTROL BLANKET | SQ YD | 695 |
| TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 695 |
| EARTH EXCAVATION | CU YD | 4 |

| ROADWAY FACILITY | POSTED SPEED (M.P.H.) | ADT | WORK ZONE CLEAR ZONE (FT.) | ROADWAY CLEAR ZONE (FT.) |
|------------------|-----------------------|-------|----------------------------|--------------------------|
| COUNTY LINE RD | 45 | 12200 | 18 | 28 |
| RAMP R | 30 | 1600 | 10 | 16 |
| BRIDEWELL DR | 25 | 2550 | 10 | 14 |

LEGEND

| | |
|--|--------------------------------|
| 10'X10' TEMPORARY LIGHTING UNIT RESTORATION AREA | PROPOSED LIGHT TOWER |
| 10' DIA. EXISTING TOWER RESTORATION AREA | REMOVED LIGHT TOWER |
| 2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED) | EXISTING LIGHT TOWER TO REMAIN |
| UNIT DUCT DIRECT BORE | TEMPORARY LIGHTING UNIT |
| 10'X10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED) | EXISTING LIGHTING UNIT |
| EXISTING UNIT DUCT | PROPOSED LIGHTING UNIT |
| 6'X6' EARTH EXCAVATION AREA | |

- NOTES:**
- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE OUTSIDE OF THE RESTORATION AREA LIMITS AS SHOWN IN THE PLANS.
 - CLEAR ZONE DISTANCES OBTAINED FROM IDOT BDE FIGURE 38-3.A BASED ON 4:1 FRONT SLOPE.
 - AREA OF RESTORATION INCLUDES SEEDING, NUTRIENTS, EROSION CONTROL BARRIER AND TOPSOIL.
 - WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING TOWER, WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN THE EXISTING FOUNDATION.



MATCH LINE - SEE SHEET C-05

C-04

C-04 - I55@CountyLineRd.dgn



| | | |
|-----------------------------|-----------------|-----------|
| USER NAME = malanesj | DESIGNED - SJM | REVISED - |
| PLOT SCALE = 100.0000' / 1" | DRAWN - SJM | REVISED - |
| PLOT DATE = 8/9/2016 | CHECKED - WJB | REVISED - |
| | DATE - 07/18/16 | REVISED - |

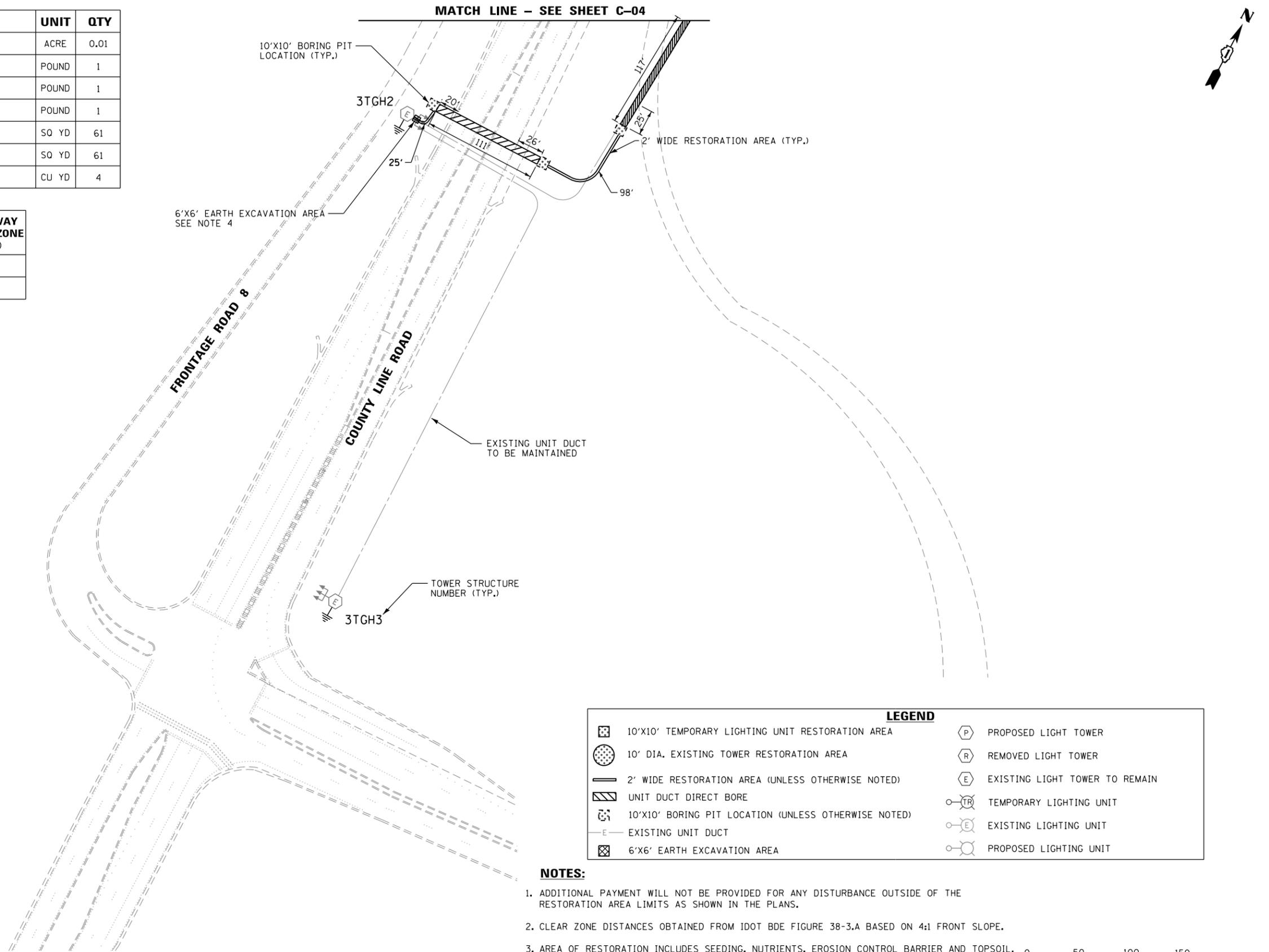
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CIVIL SITE PLAN
I-55 / S. COUNTY LINE ROAD - SHEET 4 OF 7
SCALE: 1"=50' SHEET OF SHEETS STA. 48+93 TO STA. 59+11

| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | 2015-039L | COOK | 84 | 13 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| PAY ITEM DESCRIPTION | UNIT | QTY |
|--------------------------------|-------|------|
| SEEDING, CLASS 2A | ACRE | 0.01 |
| NITROGEN FERTILIZER NUTRIENT | POUND | 1 |
| PHOSPHORUS FERTILIZER NUTRIENT | POUND | 1 |
| POTASSIUM FERTILIZER NUTRIENT | POUND | 1 |
| EROSION CONTROL BLANKET | SQ YD | 61 |
| TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 61 |
| EARTH EXCAVATION | CU YD | 4 |

| ROADWAY FACILITY | POSTED SPEED (M.P.H.) | ADT | WORK ZONE CLEAR ZONE (FT.) | ROADWAY CLEAR ZONE (FT.) |
|------------------|-----------------------|-------|----------------------------|--------------------------|
| COUNTY LINE RD | 45 | 12200 | 18 | 28 |
| BRIDEWELL DR | 25 | 2550 | 10 | 14 |



| LEGEND | |
|--------|--|
| | 10'X10' TEMPORARY LIGHTING UNIT RESTORATION AREA |
| | 10' DIA. EXISTING TOWER RESTORATION AREA |
| | 2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED) |
| | UNIT DUCT DIRECT BORE |
| | 10'X10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED) |
| | EXISTING UNIT DUCT |
| | 6'X6' EARTH EXCAVATION AREA |
| | PROPOSED LIGHT TOWER |
| | REMOVED LIGHT TOWER |
| | EXISTING LIGHT TOWER TO REMAIN |
| | TEMPORARY LIGHTING UNIT |
| | EXISTING LIGHTING UNIT |
| | PROPOSED LIGHTING UNIT |

NOTES:

- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE OUTSIDE OF THE RESTORATION AREA LIMITS AS SHOWN IN THE PLANS.
- CLEAR ZONE DISTANCES OBTAINED FROM IDOT BDE FIGURE 38-3.A BASED ON 4:1 FRONT SLOPE.
- AREA OF RESTORATION INCLUDES SEEDING, NUTRIENTS, EROSION CONTROL BARRIER AND TOPSOIL.
- WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING TOWER, WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN THE EXISTING FOUNDATION.



C-05 - I55CountyLineRd.dgn



| | | |
|-------------------------------|-----------------|-----------|
| USER NAME = malanesj | DESIGNED - SJM | REVISED - |
| | DRAWN - SJM | REVISED - |
| PLOT SCALE = 100.0000' / 1in. | CHECKED - WJB | REVISED - |
| PLOT DATE = 8/9/2016 | DATE - 07/18/16 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CIVIL SITE PLAN
I-55 / S. COUNTY LINE ROAD - SHEET 5 OF 7

SCALE: 1"=50' SHEET OF SHEETS STA. 38+75 TO STA. 48+93

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | 2015-039L | COOK | 84 | 14 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

C-05

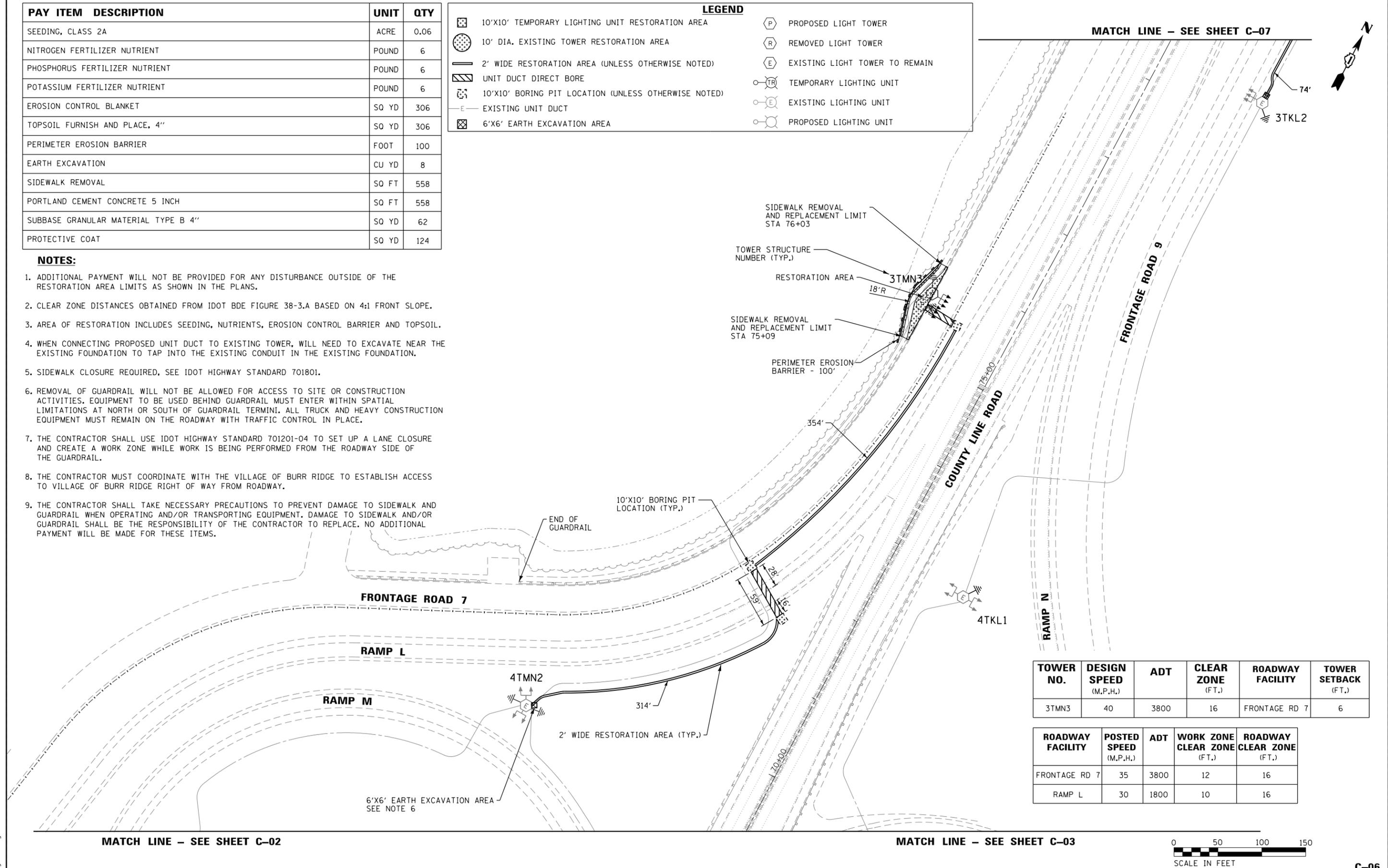
| PAY ITEM DESCRIPTION | UNIT | QTY |
|-------------------------------------|-------|------|
| SEEDING, CLASS 2A | ACRE | 0.06 |
| NITROGEN FERTILIZER NUTRIENT | POUND | 6 |
| PHOSPHORUS FERTILIZER NUTRIENT | POUND | 6 |
| POTASSIUM FERTILIZER NUTRIENT | POUND | 6 |
| EROSION CONTROL BLANKET | SQ YD | 306 |
| TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 306 |
| PERIMETER EROSION BARRIER | FOOT | 100 |
| EARTH EXCAVATION | CU YD | 8 |
| SIDEWALK REMOVAL | SQ FT | 558 |
| PORTLAND CEMENT CONCRETE 5 INCH | SQ FT | 558 |
| SUBBASE GRANULAR MATERIAL TYPE B 4" | SQ YD | 62 |
| PROTECTIVE COAT | SQ YD | 124 |

NOTES:

- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE OUTSIDE OF THE RESTORATION AREA LIMITS AS SHOWN IN THE PLANS.
- CLEAR ZONE DISTANCES OBTAINED FROM IDOT BDE FIGURE 38-3.A BASED ON 4:1 FRONT SLOPE.
- AREA OF RESTORATION INCLUDES SEEDING, NUTRIENTS, EROSION CONTROL BARRIER AND TOPSOIL.
- WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING TOWER, WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN THE EXISTING FOUNDATION.
- SIDEWALK CLOSURE REQUIRED, SEE IDOT HIGHWAY STANDARD 701801.
- REMOVAL OF GUARDRAIL WILL NOT BE ALLOWED FOR ACCESS TO SITE OR CONSTRUCTION ACTIVITIES. EQUIPMENT TO BE USED BEHIND GUARDRAIL MUST ENTER WITHIN SPATIAL LIMITATIONS AT NORTH OR SOUTH OF GUARDRAIL TERMINI. ALL TRUCK AND HEAVY CONSTRUCTION EQUIPMENT MUST REMAIN ON THE ROADWAY WITH TRAFFIC CONTROL IN PLACE.
- THE CONTRACTOR SHALL USE IDOT HIGHWAY STANDARD 701201-04 TO SET UP A LANE CLOSURE AND CREATE A WORK ZONE WHILE WORK IS BEING PERFORMED FROM THE ROADWAY SIDE OF THE GUARDRAIL.
- THE CONTRACTOR MUST COORDINATE WITH THE VILLAGE OF BURR RIDGE TO ESTABLISH ACCESS TO VILLAGE OF BURR RIDGE RIGHT OF WAY FROM ROADWAY.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO SIDEWALK AND GUARDRAIL WHEN OPERATING AND/OR TRANSPORTING EQUIPMENT. DAMAGE TO SIDEWALK AND/OR GUARDRAIL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE. NO ADDITIONAL PAYMENT WILL BE MADE FOR THESE ITEMS.

LEGEND

| | | | |
|--|--|--|--------------------------------|
| | 10'X10' TEMPORARY LIGHTING UNIT RESTORATION AREA | | PROPOSED LIGHT TOWER |
| | 10' DIA. EXISTING TOWER RESTORATION AREA | | REMOVED LIGHT TOWER |
| | 2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED) | | EXISTING LIGHT TOWER TO REMAIN |
| | UNIT DUCT DIRECT BORE | | TEMPORARY LIGHTING UNIT |
| | 10'X10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED) | | EXISTING LIGHTING UNIT |
| | EXISTING UNIT DUCT | | PROPOSED LIGHTING UNIT |
| | 6'X6' EARTH EXCAVATION AREA | | |



| TOWER NO. | DESIGN SPEED (M.P.H.) | ADT | CLEAR ZONE (FT.) | ROADWAY FACILITY | TOWER SETBACK (FT.) |
|-----------|-----------------------|------|------------------|------------------|---------------------|
| 3TMN3 | 40 | 3800 | 16 | FRONTAGE RD 7 | 6 |

| ROADWAY FACILITY | POSTED SPEED (M.P.H.) | ADT | WORK ZONE CLEAR ZONE (FT.) | ROADWAY CLEAR ZONE (FT.) |
|------------------|-----------------------|------|----------------------------|--------------------------|
| FRONTAGE RD 7 | 35 | 3800 | 12 | 16 |
| RAMP L | 30 | 1800 | 10 | 16 |



C-06

C-06 - I55@CountyLineRd.dgn



| | | |
|-------------------------------|-----------------|-----------|
| USER NAME = malanesj | DESIGNED - SJM | REVISED - |
| | DRAWN - SJM | REVISED - |
| PLOT SCALE = 100.0000' / 1in. | CHECKED - WJB | REVISED - |
| PLOT DATE = 8/9/2016 | DATE - 07/18/16 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CIVIL SITE PLAN
I-55 / S. COUNTY LINE ROAD - SHEET 6 OF 7**

SCALE: 1"=50' SHEET OF SHEETS STA. 69+30 TO STA. 79+52

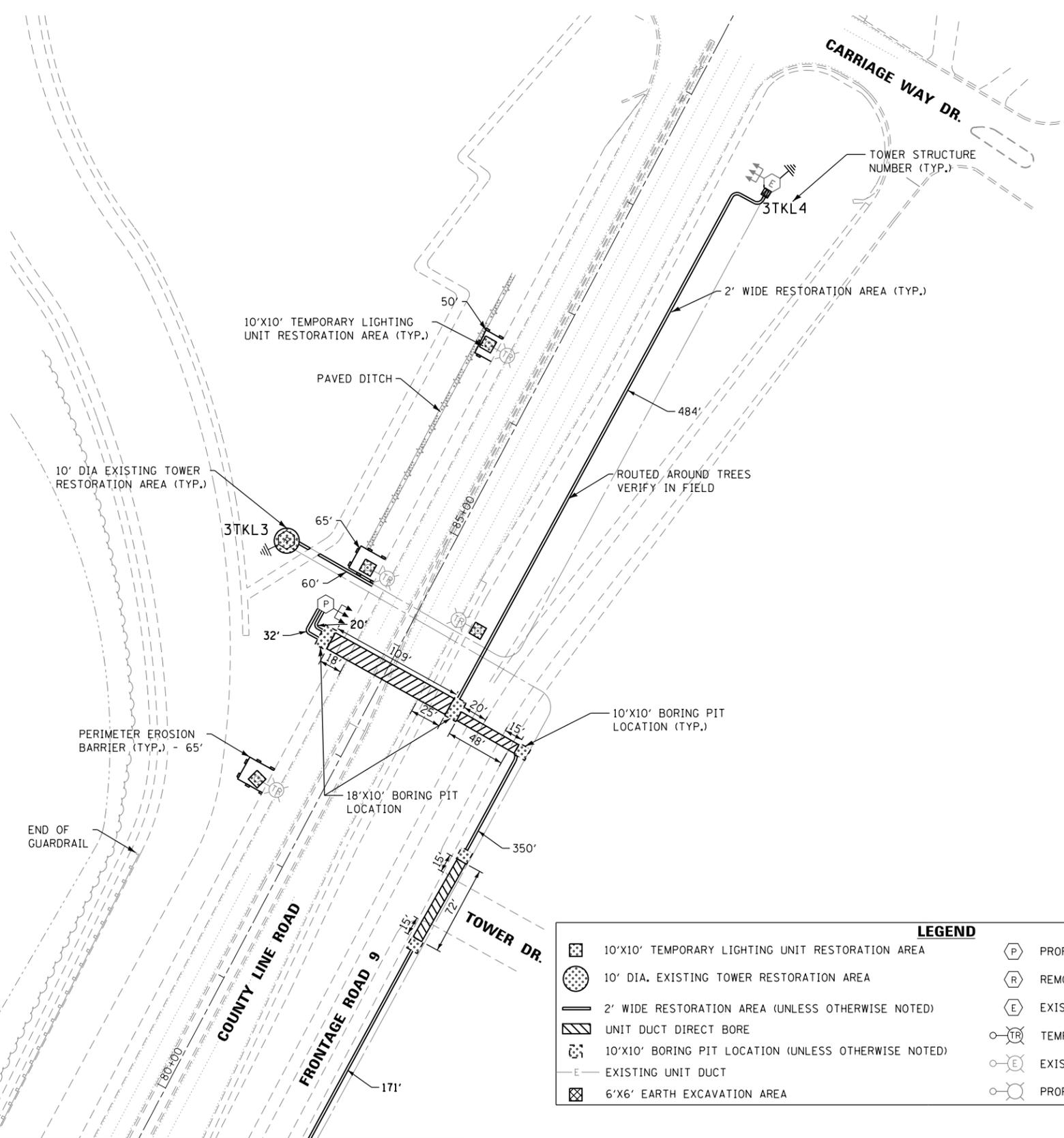
| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | 2015-039L | COOK | 84 | 15 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| PAY ITEM DESCRIPTION | UNIT | QTY |
|--------------------------------|-------|------|
| SEEDING, CLASS 2A | ACRE | 0.08 |
| NITROGEN FERTILIZER NUTRIENT | POUND | 7 |
| PHOSPHORUS FERTILIZER NUTRIENT | POUND | 7 |
| POTASSIUM FERTILIZER NUTRIENT | POUND | 7 |
| EROSION CONTROL BLANKET | 50 YD | 375 |
| TOPSOIL FURNISH AND PLACE, 4" | 50 YD | 375 |
| PERIMETER EROSION BARRIER | FOOT | 180 |
| EARTH EXCAVATION | CU YD | 4 |

| TOWER NO. | DESIGN SPEED (M.P.H.) | ADT | CLEAR ZONE (FT.) | ROADWAY FACILITY | TOWER SETBACK (FT.) |
|-----------|-----------------------|-------|------------------|------------------|---------------------|
| 3TKL3 | 50 | 19800 | 28 | COUNTY LINE RD | 33 |

| ROADWAY FACILITY | POSTED SPEED (M.P.H.) | ADT | WORK ZONE CLEAR ZONE (FT.) | ROADWAY CLEAR ZONE (FT.) |
|------------------|-----------------------|------------|----------------------------|--------------------------|
| COUNTY LINE RD | 45 | 19800 | 18 | 28 |
| FRONTAGE RD 9 | 35 | •1500-6000 | 12 | 16 |
| TOWER DR | 30 | •1500-6000 | 10 | 16 |

•ASSUMED RANGE - ADT UNAVAILABLE



NOTES:

- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE OUTSIDE OF THE RESTORATION AREA LIMITS AS SHOWN IN THE PLANS.
- CLEAR ZONE DISTANCES OBTAINED FROM IDOT BDE FIGURE 38-3.A BASED ON 4:1 FRONT SLOPE.
- AREA OF RESTORATION INCLUDES SEEDING, NUTRIENTS, EROSION CONTROL BARRIER AND TOPSOIL.
- SIDEWALK CLOSURE REQUIRED, SEE IDOT HIGHWAY STANDARD 701801.
- WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING TOWER, WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN THE EXISTING FOUNDATION.

| LEGEND | |
|--------|--|
| | 10'X10' TEMPORARY LIGHTING UNIT RESTORATION AREA |
| | 10' DIA. EXISTING TOWER RESTORATION AREA |
| | 2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED) |
| | UNIT DUCT DIRECT BORE |
| | 10'X10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED) |
| | EXISTING UNIT DUCT |
| | 6'X6' EARTH EXCAVATION AREA |
| | PROPOSED LIGHT TOWER |
| | REMOVED LIGHT TOWER |
| | EXISTING LIGHT TOWER TO REMAIN |
| | TEMPORARY LIGHTING UNIT |
| | EXISTING LIGHTING UNIT |
| | PROPOSED LIGHTING UNIT |

MATCH LINE - SEE SHEET C-06



C-07



| | | |
|-------------------------------|-----------------|-----------|
| USER NAME = malanesj | DESIGNED - SJM | REVISED - |
| | DRAWN - SJM | REVISED - |
| PLOT SCALE = 100.0000' / 1" = | CHECKED - WJB | REVISED - |
| PLOT DATE = 8/9/2016 | DATE - 07/18/16 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CIVIL SITE PLAN
I-55 / S. COUNTY LINE ROAD - SHEET 7 OF 7

SCALE: 1"=50' SHEET OF SHEETS STA. 79+52 TO STA. 89+72

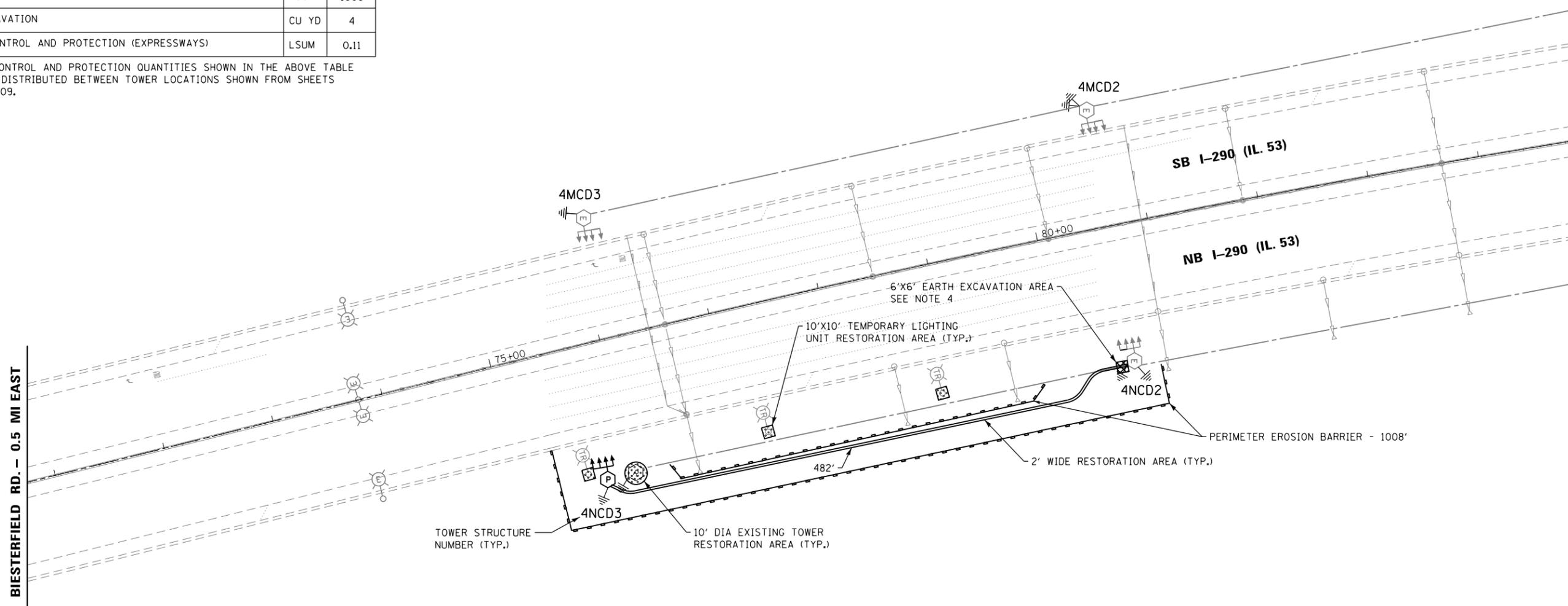
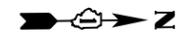
| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | 2015-039L | COOK | 84 | 16 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

C-07 - I55@CountyLineRd.dgn

| PAY ITEM DESCRIPTION | UNIT | QTY |
|--|-------|------|
| SEEDING, CLASS 2A | ACRE | 0.03 |
| NITROGEN FERTILIZER NUTRIENT | POUND | 3 |
| PHOSPHORUS FERTILIZER NUTRIENT | POUND | 3 |
| POTASSIUM FERTILIZER NUTRIENT | POUND | 3 |
| EROSION CONTROL BLANKET | SQ YD | 149 |
| TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 149 |
| PERIMETER EROSION BARRIER | FOOT | 1008 |
| EARTH EXCAVATION | CU YD | 4 |
| TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) | LSUM | 0.11 |

•TRAFFIC CONTROL AND PROTECTION QUANTITIES SHOWN IN THE ABOVE TABLE ARE TO BE DISTRIBUTED BETWEEN TOWER LOCATIONS SHOWN FROM SHEETS C-08 TO C-09.

| TOWER NO. | DESIGN SPEED (M.P.H.) | ADT | CLEAR ZONE (FT.) | ROADWAY FACILITY | TOWER SETBACK (FT.) |
|-----------|-----------------------|--------|------------------|------------------|---------------------|
| 4NCD3 | 65 | 185200 | 46 | I-290 | 51 |



| LEGEND | |
|--------|--|
| | 10'X10' TEMPORARY LIGHTING UNIT RESTORATION AREA |
| | 10' DIA. EXISTING TOWER RESTORATION AREA |
| | 2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED) |
| | UNIT DUCT DIRECT BORE |
| | 10'X10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED) |
| | EXISTING UNIT DUCT |
| | 6'X6' EARTH EXCAVATION AREA |
| | PROPOSED LIGHT TOWER |
| | REMOVED LIGHT TOWER |
| | EXISTING LIGHT TOWER TO REMAIN |
| | TEMPORARY LIGHTING UNIT |
| | EXISTING LIGHTING UNIT |
| | PROPOSED LIGHTING UNIT |

- NOTES:**
- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE OUTSIDE OF THE RESTORATION AREA LIMITS AS SHOWN IN THE PLANS.
 - CLEAR ZONE DISTANCES OBTAINED FROM IDOT BDE FIGURE 38-3.A BASED ON 4:1 FRONT SLOPE.
 - AREA OF RESTORATION INCLUDES SEEDING, NUTRIENTS, EROSION CONTROL BARRIER AND TOPSOIL.
 - WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING TOWER, WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN THE EXISTING FOUNDATION.



C-08-12%01L-53eIL72.dgn



| | | |
|-------------------------------|-----------------|-----------|
| USER NAME = malanesj | DESIGNED - SJM | REVISED - |
| | DRAWN - SJM | REVISED - |
| PLOT SCALE = 100.0000' / 1in. | CHECKED - WJB | REVISED - |
| PLOT DATE = 8/9/2016 | DATE - 07/18/16 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

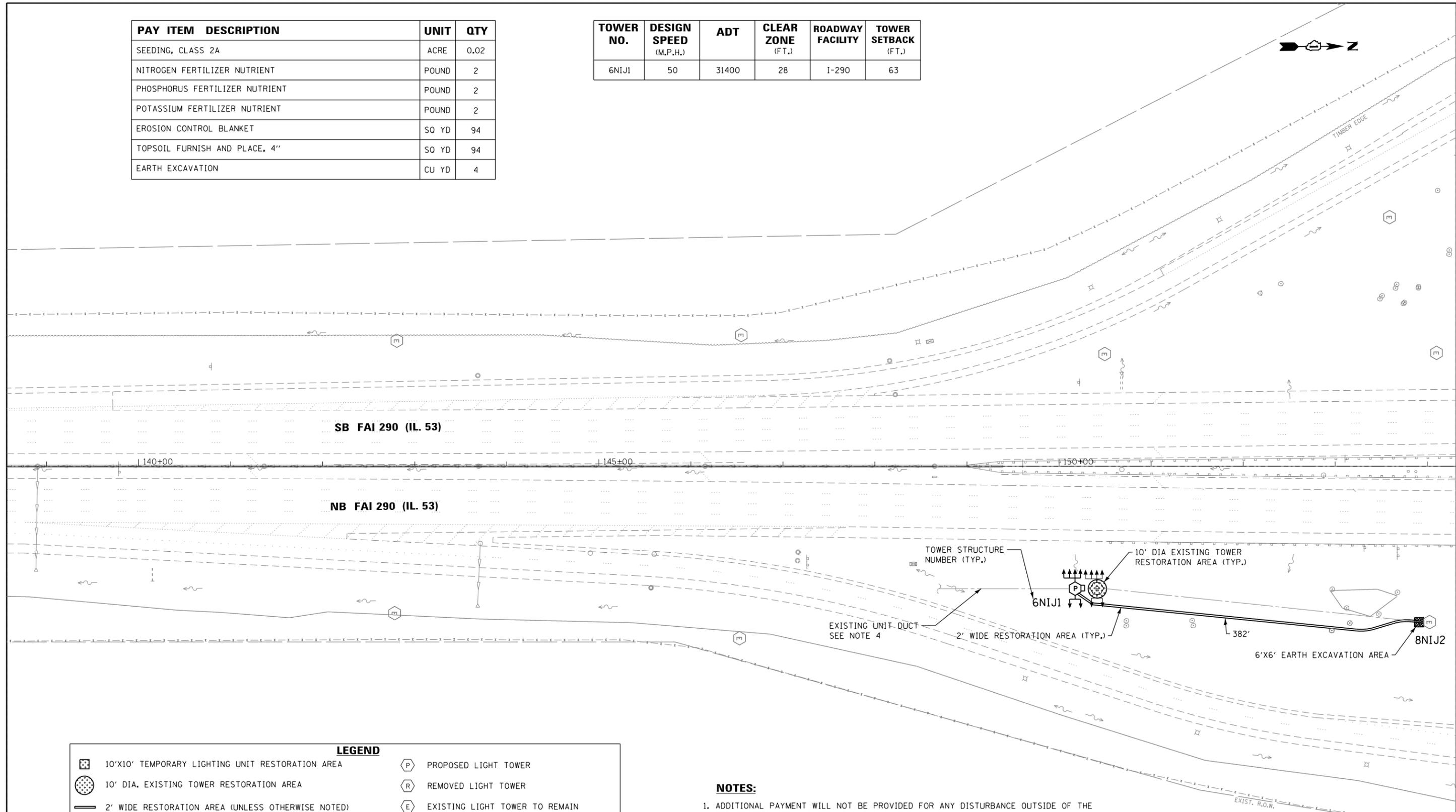
CIVIL SITE PLAN
I-290 / IL 53 SOUTH OF IL 72 - SHEET 1 OF 2
SCALE: 1"=50' SHEET OF SHEETS STA. 73+88 TO STA. 88+95

| | | | | |
|--------------------|-----------|--------|---------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | 2015-039L | COOK | 84 | 17 |
| CONTRACT NO. 62A98 | | | ILLINOIS FED. AID PROJECT | |

C-08

| PAY ITEM DESCRIPTION | UNIT | QTY |
|--------------------------------|-------|------|
| SEEDING, CLASS 2A | ACRE | 0.02 |
| NITROGEN FERTILIZER NUTRIENT | POUND | 2 |
| PHOSPHORUS FERTILIZER NUTRIENT | POUND | 2 |
| POTASSIUM FERTILIZER NUTRIENT | POUND | 2 |
| EROSION CONTROL BLANKET | SO YD | 94 |
| TOPSOIL FURNISH AND PLACE, 4" | SO YD | 94 |
| EARTH EXCAVATION | CU YD | 4 |

| TOWER NO. | DESIGN SPEED (M.P.H.) | ADT | CLEAR ZONE (FT.) | ROADWAY FACILITY | TOWER SETBACK (FT.) |
|-----------|-----------------------|-------|------------------|------------------|---------------------|
| 6NIJ1 | 50 | 31400 | 28 | I-290 | 63 |



| LEGEND | |
|--------|--|
| | 10'x10' TEMPORARY LIGHTING UNIT RESTORATION AREA |
| | 10' DIA. EXISTING TOWER RESTORATION AREA |
| | 2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED) |
| | UNIT DUCT DIRECT BORE |
| | 10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED) |
| | EXISTING UNIT DUCT |
| | 6'x6' EARTH EXCAVATION AREA |
| | PROPOSED LIGHT TOWER |
| | REMOVED LIGHT TOWER |
| | EXISTING LIGHT TOWER TO REMAIN |
| | TEMPORARY LIGHTING UNIT |
| | EXISTING LIGHTING UNIT |
| | PROPOSED LIGHTING UNIT |

NOTES:

- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE OUTSIDE OF THE RESTORATION AREA LIMITS AS SHOWN IN THE PLANS.
- CLEAR ZONE DISTANCES OBTAINED FROM IDOT BDE FIGURE 38-3.A BASED ON 4:1 FRONT SLOPE.
- AREA OF RESTORATION INCLUDES SEEDING, NUTRIENTS, EROSION CONTROL BARRIER AND TOPSOIL.
- USE EXISTING UNIT DUCT COMING FROM LIGHTING CONTROLLER TO FEED THE PROPOSED LIGHT TOWER. PROPOSED TOWER SHOULD BE PLACED NEAR THE EXISTING UNIT DUCT PATH WHICH COMES FROM THE SOUTH OR SOUTHEAST OF EXISTING TOWER. EXCAVATE THE AREA AND OBTAIN IDOT EMC LOCATE TO FIND UNIT DUCT PATH.



C-09-12%01L 53eIL 72.dgn



| | | |
|------------------------------|-----------------|-----------|
| USER NAME = malanesj | DESIGNED - SJM | REVISED - |
| | DRAWN - SJM | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - WJB | REVISED - |
| PLOT DATE = 8/9/2016 | DATE - 07/18/16 | REVISED - |

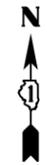
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CIVIL SITE PLAN
I-290 / IL 53 SOUTH OF IL 72 - SHEET 2 OF 2**

SCALE: 1"=50' SHEET OF SHEETS STA. 138+86 TO STA. 154+61

| | | | | |
|--------------------|-----------|--------|---------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | 2015-039L | COOK | 84 | 18 |
| CONTRACT NO. 62A98 | | | ILLINOIS FED. AID PROJECT | |

C-09



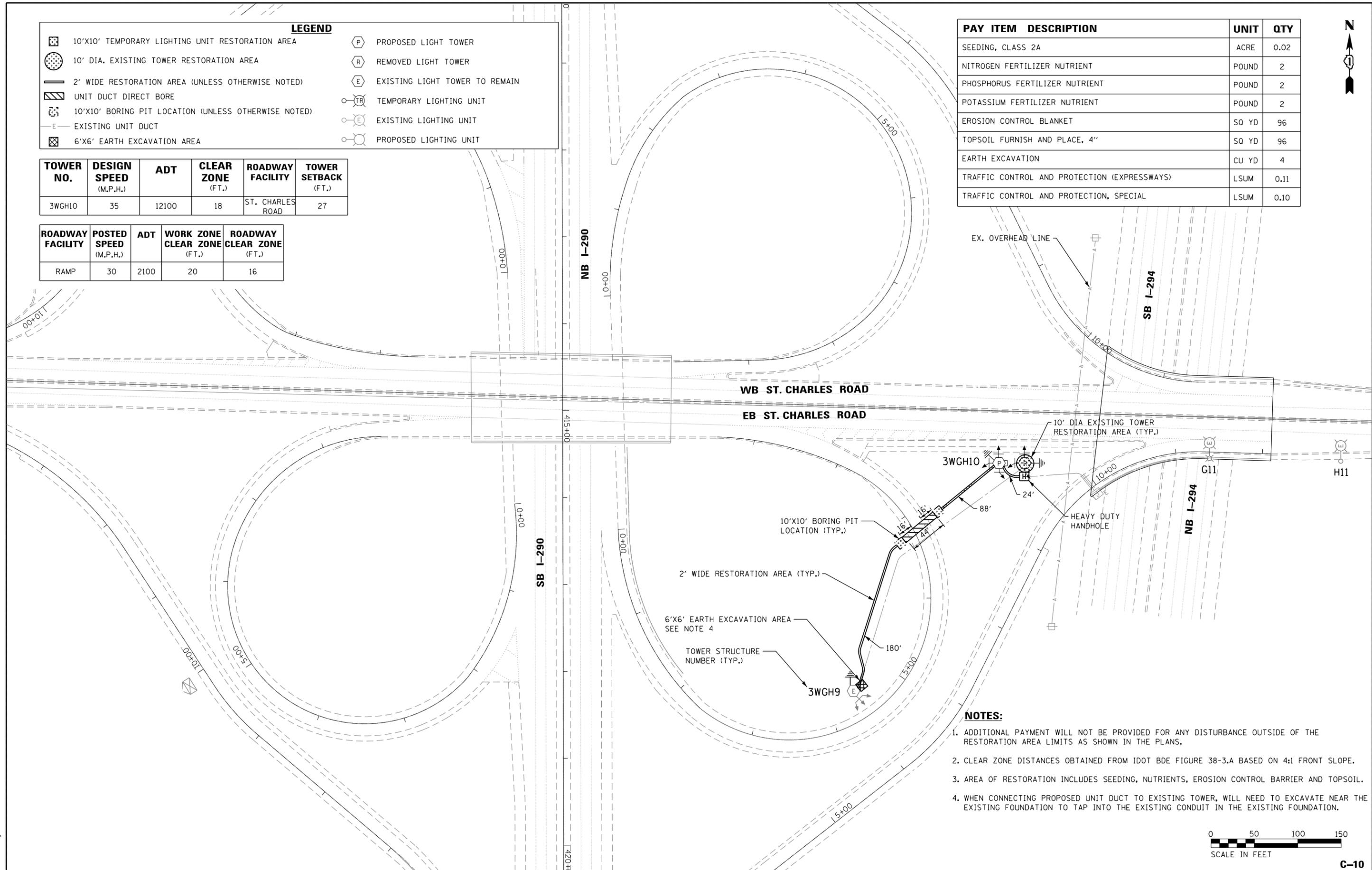
| PAY ITEM DESCRIPTION | UNIT | QTY |
|--|-------|------|
| SEEDING, CLASS 2A | ACRE | 0.02 |
| NITROGEN FERTILIZER NUTRIENT | POUND | 2 |
| PHOSPHORUS FERTILIZER NUTRIENT | POUND | 2 |
| POTASSIUM FERTILIZER NUTRIENT | POUND | 2 |
| EROSION CONTROL BLANKET | 50 YD | 96 |
| TOPSOIL FURNISH AND PLACE, 4" | 50 YD | 96 |
| EARTH EXCAVATION | CU YD | 4 |
| TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) | LSUM | 0.11 |
| TRAFFIC CONTROL AND PROTECTION, SPECIAL | LSUM | 0.10 |

LEGEND

- 10'x10' TEMPORARY LIGHTING UNIT RESTORATION AREA
- 10' DIA. EXISTING TOWER RESTORATION AREA
- 2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)
- UNIT DUCT DIRECT BORE
- 10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED)
- EXISTING UNIT DUCT
- 6'x6' EARTH EXCAVATION AREA
- PROPOSED LIGHT TOWER
- REMOVED LIGHT TOWER
- EXISTING LIGHT TOWER TO REMAIN
- TEMPORARY LIGHTING UNIT
- EXISTING LIGHTING UNIT
- PROPOSED LIGHTING UNIT

| TOWER NO. | DESIGN SPEED (M.P.H.) | ADT | CLEAR ZONE (FT.) | ROADWAY FACILITY | TOWER SETBACK (FT.) |
|-----------|-----------------------|-------|------------------|------------------|---------------------|
| 3WGH10 | 35 | 12100 | 18 | ST. CHARLES ROAD | 27 |

| ROADWAY FACILITY | POSTED SPEED (M.P.H.) | ADT | WORK ZONE CLEAR ZONE (FT.) | ROADWAY CLEAR ZONE (FT.) |
|------------------|-----------------------|------|----------------------------|--------------------------|
| RAMP | 30 | 2100 | 20 | 16 |



NOTES:

- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE OUTSIDE OF THE RESTORATION AREA LIMITS AS SHOWN IN THE PLANS.
- CLEAR ZONE DISTANCES OBTAINED FROM IDOT BDE FIGURE 38-3.A BASED ON 4:1 FRONT SLOPE.
- AREA OF RESTORATION INCLUDES SEEDING, NUTRIENTS, EROSION CONTROL BARRIER AND TOPSOIL.
- WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING TOWER, WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN THE EXISTING FOUNDATION.



C-10



| | | |
|-------------------------------|-----------------|-----------|
| USER NAME = malanesj | DESIGNED - SJM | REVISED - |
| | DRAWN - SJM | REVISED - |
| PLOT SCALE = 100.0000' / 1in. | CHECKED - WJB | REVISED - |
| PLOT DATE = 8/9/2016 | DATE - 07/18/16 | REVISED - |

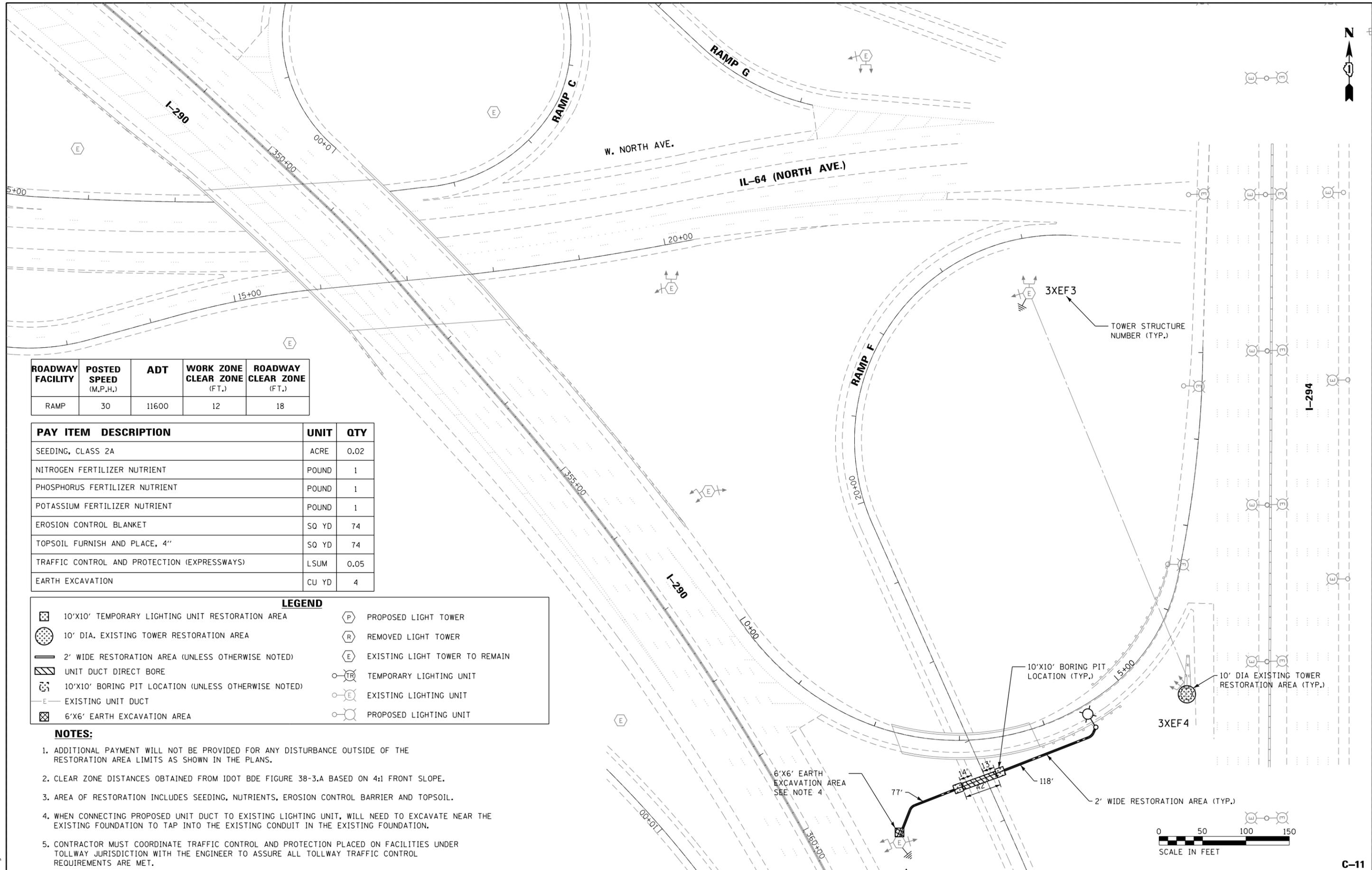
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CIVIL SITE PLAN
I-290 / ST. CHARLES ROAD - SHEET 1 OF 1

SCALE: 1"=50' SHEET OF SHEETS STA. 410+30 TO STA. 420+30

| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | 2015-039L | DUPAGE | 84 | 19 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

C-10-121005StChar-1esRfd.dgn



| ROADWAY FACILITY | POSTED SPEED (M.P.H.) | ADT | WORK ZONE CLEAR ZONE (FT.) | ROADWAY CLEAR ZONE (FT.) |
|------------------|-----------------------|-------|----------------------------|--------------------------|
| RAMP | 30 | 11600 | 12 | 18 |

| PAY ITEM DESCRIPTION | UNIT | QTY |
|--|-------|------|
| SEEDING, CLASS 2A | ACRE | 0.02 |
| NITROGEN FERTILIZER NUTRIENT | POUND | 1 |
| PHOSPHORUS FERTILIZER NUTRIENT | POUND | 1 |
| POTASSIUM FERTILIZER NUTRIENT | POUND | 1 |
| EROSION CONTROL BLANKET | SQ YD | 74 |
| TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 74 |
| TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) | LSUM | 0.05 |
| EARTH EXCAVATION | CU YD | 4 |

| LEGEND | |
|--------|--|
| | 10'x10' TEMPORARY LIGHTING UNIT RESTORATION AREA |
| | 10' DIA. EXISTING TOWER RESTORATION AREA |
| | 2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED) |
| | UNIT DUCT DIRECT BORE |
| | 10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED) |
| | EXISTING UNIT DUCT |
| | 6'x6' EARTH EXCAVATION AREA |
| | PROPOSED LIGHT TOWER |
| | REMOVED LIGHT TOWER |
| | EXISTING LIGHT TOWER TO REMAIN |
| | TEMPORARY LIGHTING UNIT |
| | EXISTING LIGHTING UNIT |
| | PROPOSED LIGHTING UNIT |

NOTES:

- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE OUTSIDE OF THE RESTORATION AREA LIMITS AS SHOWN IN THE PLANS.
- CLEAR ZONE DISTANCES OBTAINED FROM IDOT BDE FIGURE 38-3.A BASED ON 4:1 FRONT SLOPE.
- AREA OF RESTORATION INCLUDES SEEDING, NUTRIENTS, EROSION CONTROL BARRIER AND TOPSOIL.
- WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING LIGHTING UNIT, WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN THE EXISTING FOUNDATION.
- CONTRACTOR MUST COORDINATE TRAFFIC CONTROL AND PROTECTION PLACED ON FACILITIES UNDER TOLLWAY JURISDICTION WITH THE ENGINEER TO ASSURE ALL TOLLWAY TRAFFIC CONTROL REQUIREMENTS ARE MET.



C-11- 129001L64.dgn



| | | |
|------------------------------|-----------------|-----------|
| USER NAME = malanosj | DESIGNED - SJM | REVISED - |
| | DRAWN - SJM | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - WJB | REVISED - |
| PLOT DATE = 8/9/2016 | DATE - 07/18/16 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CIVIL SITE PLAN
1-290 / IL-64 (NORTH AVE.) SHEET 1 OF 1**

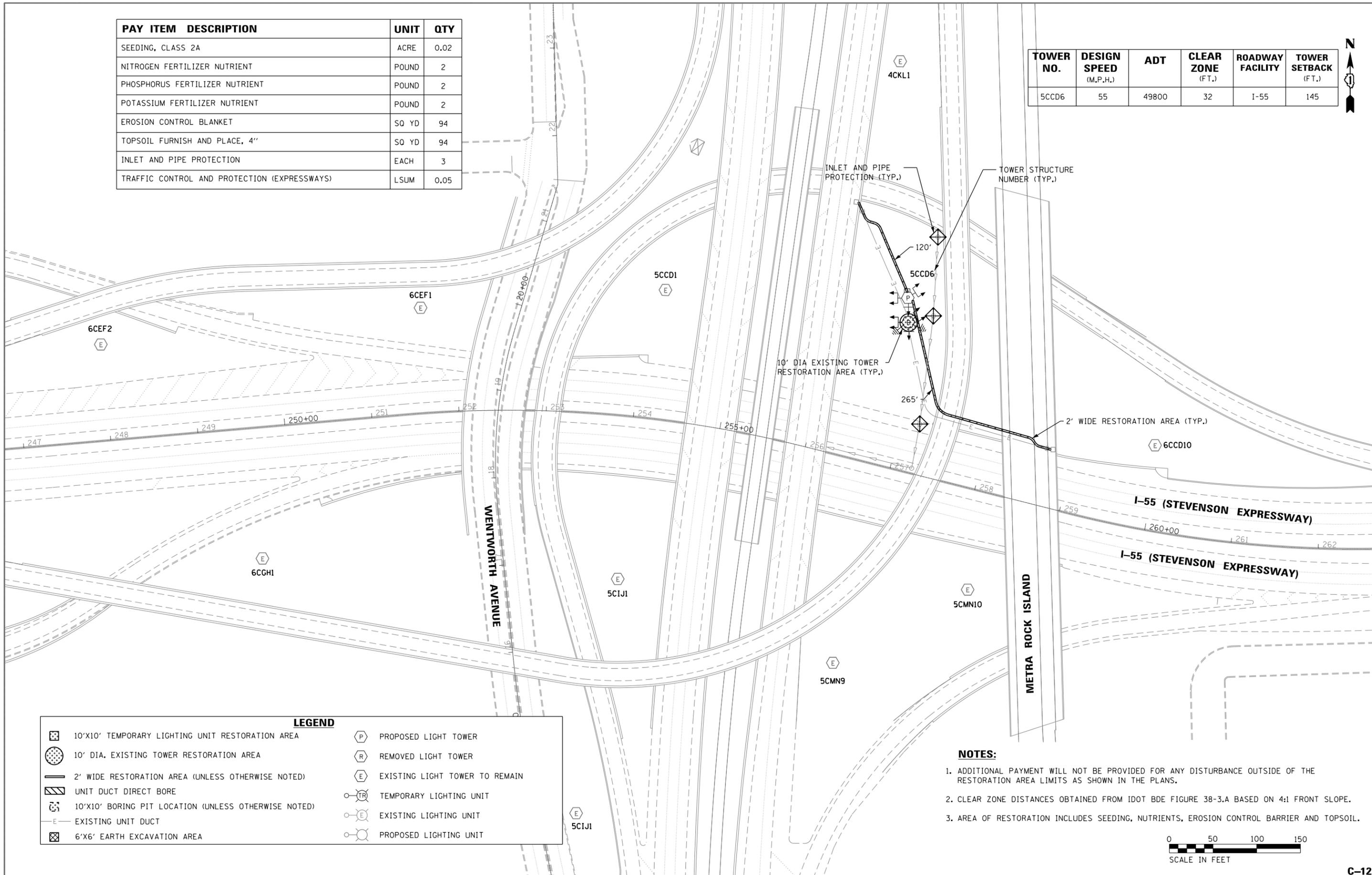
SCALE: 1"=50' SHEET OF SHEETS STA. 347+45 TO STA. 360+54

| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | 2015-039L | DUPAGE | 84 | 20 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

C-11

| PAY ITEM | DESCRIPTION | UNIT | QTY |
|--|-------------|-------|------|
| SEEDING, CLASS 2A | | ACRE | 0.02 |
| NITROGEN FERTILIZER NUTRIENT | | POUND | 2 |
| PHOSPHORUS FERTILIZER NUTRIENT | | POUND | 2 |
| POTASSIUM FERTILIZER NUTRIENT | | POUND | 2 |
| EROSION CONTROL BLANKET | | SQ YD | 94 |
| TOPSOIL FURNISH AND PLACE, 4" | | SQ YD | 94 |
| INLET AND PIPE PROTECTION | | EACH | 3 |
| TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) | | LSUM | 0.05 |

| TOWER NO. | DESIGN SPEED (M.P.H.) | ADT | CLEAR ZONE (F.T.) | ROADWAY FACILITY | TOWER SETBACK (F.T.) |
|-----------|-----------------------|-------|-------------------|------------------|----------------------|
| 5CCD6 | 55 | 49800 | 32 | I-55 | 145 |



| LEGEND | |
|--------|--|
| | 10'x10' TEMPORARY LIGHTING UNIT RESTORATION AREA |
| | 10' DIA. EXISTING TOWER RESTORATION AREA |
| | 2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED) |
| | UNIT DUCT DIRECT BORE |
| | 10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED) |
| | EXISTING UNIT DUCT |
| | 6'x6' EARTH EXCAVATION AREA |
| | PROPOSED LIGHT TOWER |
| | REMOVED LIGHT TOWER |
| | EXISTING LIGHT TOWER TO REMAIN |
| | TEMPORARY LIGHTING UNIT |
| | EXISTING LIGHTING UNIT |
| | PROPOSED LIGHTING UNIT |

- NOTES:**
- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE OUTSIDE OF THE RESTORATION AREA LIMITS AS SHOWN IN THE PLANS.
 - CLEAR ZONE DISTANCES OBTAINED FROM IDOT BDE FIGURE 38-3.A BASED ON 4:1 FRONT SLOPE.
 - AREA OF RESTORATION INCLUDES SEEDING, NUTRIENTS, EROSION CONTROL BARRIER AND TOPSOIL.



C-12- 155@WentworthAve.dgn



| | | |
|-------------------------------|-----------------|-----------|
| USER NAME = malanesj | DESIGNED - SJM | REVISED - |
| | DRAWN - SJM | REVISED - |
| PLOT SCALE = 100.0000' / 1in. | CHECKED - WJB | REVISED - |
| PLOT DATE = 8/9/2016 | DATE - 07/18/16 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CIVIL SITE PLAN
I-55 / WENTWORTH AVE. - SHEET 1 OF 1**

SCALE: 1"=50' SHEET OF SHEETS STA. 256+10 TO STA. 258+77

| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | 2015-039L | COOK | 84 | 21 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| PAY ITEM | DESCRIPTION | UNIT | QTY |
|--|-------------|-------|------|
| PERIMETER EROSION BARRIER | | FOOT | 300 |
| CONCRETE BARRIER REMOVAL | | FOOT | 50 |
| CONCRETE BARRIER WALL (SPECIAL) | | FOOT | 50 |
| TEMPORARY CONCRETE BARRIER | | FOOT | 50 |
| IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 | | EACH | 1 |
| BARRIER WALL REFLECTORS, TYPE C | | EACH | 2 |
| PROTECTIVE COAT | | SQ YD | 90 |
| TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) | | LSUM | 0.05 |

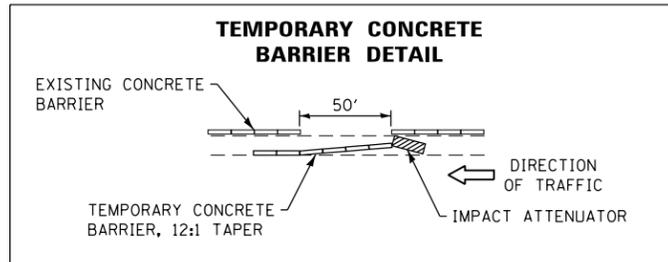
| TOWER NO. | DESIGN SPEED (M.P.H.) | ADT | CLEAR ZONE (FT.) | ROADWAY FACILITY | TOWER SETBACK (FT.) |
|-----------|-----------------------|--------|------------------|------------------|---------------------|
| 20GH4 | 60 | 155200 | 44 | I-55 | 20 |

-CONCRETE BARRIER REMOVAL
 -TEMPORARY CONCRETE BARRIER
 -IMPACT ATTENUATOR
 -CONCRETE BARRIER WALL (SPECIAL)

EXISTING FOUNDATION TO REMAIN

PERIMETER EROSION BARRIER - 300'

IL 171 (ARCHER AVE) - 1.25 NORTH



| LEGEND | |
|--------|--|
| | 10'x10' TEMPORARY LIGHTING UNIT RESTORATION AREA |
| | 10' DIA. EXISTING TOWER RESTORATION AREA |
| | 2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED) |
| | UNIT DUCT DIRECT BORE |
| | 10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED) |
| | EXISTING UNIT DUCT |
| | 6'x6' EARTH EXCAVATION AREA |
| | PROPOSED LIGHT TOWER |
| | REMOVED LIGHT TOWER |
| | EXISTING LIGHT TOWER TO REMAIN |
| | TEMPORARY LIGHTING UNIT |
| | EXISTING LIGHTING UNIT |
| | PROPOSED LIGHTING UNIT |

- NOTES:**
- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE OUTSIDE OF THE RESTORATION AREA LIMITS AS SHOWN IN THE PLANS.
 - CLEAR ZONE DISTANCES OBTAINED FROM IDOT BDE FIGURE 38-3.A BASED ON 4:1 FRONT SLOPE.
 - AREA OF RESTORATION INCLUDES SEEDING, NUTRIENTS, EROSION CONTROL BARRIER AND TOPSOIL.
 - CONCRETE BARRIER REMOVAL IS FOR ACCESS TO SITE. IDOT DISTRICT ONE STANDARD TC-18 MUST BE IN PLACE DURING CONSTRUCTION.

TOWER STRUCTURE NUMBER (TYP.)

20GH5

EXISTING CONCRETE BARRIER



C-13-1558(17).dgn



| | | |
|-------------------------------|-----------------|-----------|
| USER NAME = malanosj | DESIGNED - SJM | REVISED - |
| | DRAWN - SJM | REVISED - |
| PLOT SCALE = 100.0000' / 1in. | CHECKED - WJB | REVISED - |
| PLOT DATE = 8/9/2016 | DATE - 07/18/16 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

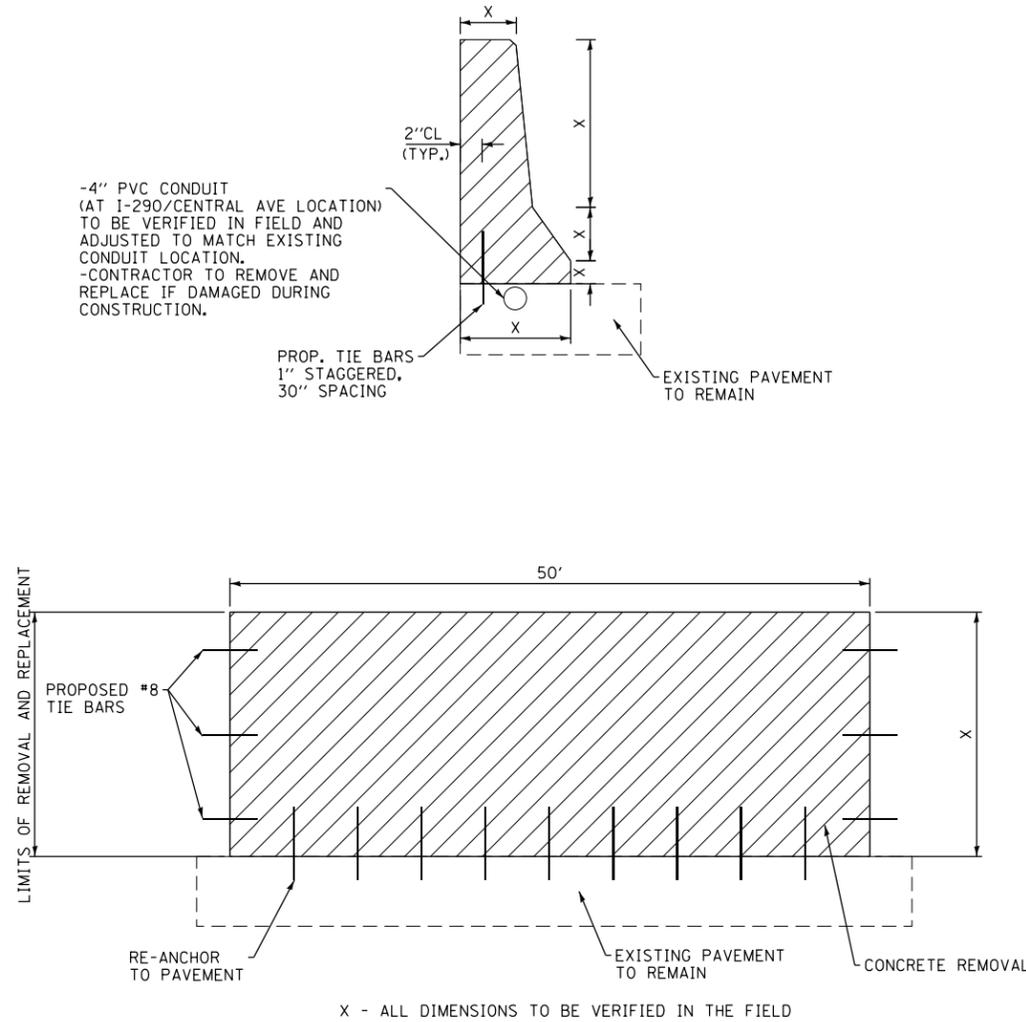
CIVIL SITE PLAN
 I-55 / 85TH AVE. (8500 W) - SHEET 1 OF 1

SCALE: 1"=50' SHEET OF SHEETS STA. 145+55 TO STA. 158+83

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | 2015-039L | COOK | 84 | 22 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

C-13

CONCRETE BARRIER WALL (SPECIAL)



NOTES:

ALL BARRIER WALL REPLACEMENT SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS AND AS SHOWN ON THE PLANS. ALL PROPOSED DOWEL BARS AND TIE BARS SHALL BE DRILLED AND GROUTED IN PLACE, REINFORCEMENT SHALL BE INCLUDED AS DESCRIBED IN SECTION 637 OF THE STANDARD SPECIFICATIONS. WHEN A REINFORCEMENT CAGE IS ENCOUNTERED, THE CONTRACTOR SHALL REMOVE THE PORTION OF THE CAGE AND SHALL REPLACE IT WITH BARS OF THE SAME SIZE AND SPACING. THE SCOPE OF REPLACEMENT AT EACH LOCATION SHALL BE AS SHOWN ON THE PLANS AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

USE #8 EPOXY COATED TIE BARS, CONFORMING TO ART. 1006.10 OF THE STANDARD SPECIFICATIONS FOR ALL TIE BARS

CD-1-Civil Detail.dgn

JACOBS

| | | |
|-------------------------------|-----------------|-----------|
| USER NAME = malanesj | DESIGNED - SJM | REVISED - |
| | DRAWN - SJM | REVISED - |
| PLOT SCALE = 100.0000' / 1in. | CHECKED - WJB | REVISED - |
| PLOT DATE = 8/9/2016 | DATE - 07/18/16 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CIVIL SITE PLAN
DETAILS

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTÉ. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | 2015-039L | | 84 | 23 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

CD-1

GENERAL NOTES:

- ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS, AND THE IDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED ON APRIL 2016, AND SUPPLEMENT SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED ON JAN 1, 2015.
- THE CONTRACTOR MUST VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT PLANS WHICH COULD AFFECT HIS WORK UNDER THIS CONTRACT FOR OPERATION OF THE EXISTING ROADWAY LIGHTING SYSTEM.
- NO MATERIAL OR EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE WITHOUT PRIOR INSPECTION AND APPROVAL BY THE ENGINEER. ANY MATERIAL AND EQUIPMENT NOT APPROVED BY THE ENGINEER MUST BE REMOVED FROM JOB SITE AT THE CONTRACTOR S EXPENSE.
- ALL UNDERGROUND UNIT DUCT SHALL BE 30 INCHES MINIMUM BELOW GRADE PER IDOT SECTION 810. UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH UNDERDRAINS, AND UNDERGROUND UTILITIES.
- ALL SPLICING MUST BE IN TOWER/ POLE BASES OR EXISTING JUNCTION BOXES ABOVE GRADE WITH WATERPROOF SEALANT AND HEAT SHRINKABLE PLASTIC CAPS. UNLESS NOTED OTHERWISE.
- TEMPORARY SUPPORTS FOR EXISTING UTILITIES SHALL BE PROVIDED IF REQUIRED.
- NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHT TIME OPERATION OF EXISTING LIGHTING WITHOUT THE APPROVAL OF THE ENGINEER. ALL EXISTING LIGHTING SHALL OPERATE FROM DUSK TO DAWN DAILY FOR DURATION OF THE PROJECT TO MAINTAIN ILLUMINATION OF TRAVELED ROADWAYS.
- EXISTING LIGHTING TOWER / TEMPORARY LIGHTING WILL REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING TOWER STARTS FUNCTIONING.
- SWITCHOVER OF CABLE CONNECTIONS TO PROPOSED LIGHTING TOWER FROM EXISTING LIGHTING TOWER / TEMPORARY LIGHTING POLES SHALL TAKE PLACE DURING DAY TIME.
- PROPOSED LIGHTING TOWER IN CONFLICT WITH THE EXISTING DITCH LINES SHALL BE INSTALLED BEHIND THE DITCHES AS APPROVED BY THE ENGINEER. NO TOWER SHALL BE INSTALLED AT THE BOTTOM OF DRAINAGE DITCHES OR IN ESTABLISHED LANDSCAPING.
- ALL EXCAVATION REQUIRED TO FACILITATE THE INSTALLATION OF PROPOSED LIGHT TOWER FOUNDATIONS AT SLOPED AREAS SHALL BE CONSIDERED INCIDENTAL TO THE TOWER FOUNDATIONS. NO SEPARATE PAYMENT WILL BE MADE.
- COUNTERWEIGHTS ON UN-USED TENONS SHALL BE MOUNTED TO BALANCE THE LUMINAIRE AS ACCEPTABLE TO THE ENGINEER.
- TOWER UNIT IDENTIFICATION LABEL SHALL BE PROVIDED AS PER ARTICLE 1069.06 TO THE PROPOSED TOWER TO MATCH WITH EXISTING ONE.
- CONTRACTOR SHALL REVIEW THE SOIL BORING LOGS AND SOIL TEST REPORTS FOR EACH PROPOSED LIGHTING TOWER, BEFORE START OF FOUNDATION AUGURING. EACH HOLE FOR THE FOUNDATION SHALL BE INSPECTED BY THE ENGINEER PRIOR TO POURING CONCRETE FOUNDATION. THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THE INFORMATION IN NO WAY IMPLIES THAT SUB SURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF BORING.
- THE CONTRACTOR IS ADVISED THAT IN THE EVENT OF SNOW, HE SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF ANY MAINTENANCE OF TRAFFIC PROTECTIVE DEVICE REQUIRED FOR THE TRAFFIC OPERATIONS THAT WOULD INTERFERE WITH SNOW REMOVAL OPERATION PREFORMED BY THE STATE IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS.
- PROPOSED TOWER FOUNDATIONS ARE SHOWN AS APPROXIMATE LOCATIONS. IT CAN BE ADJUSTED IN THE FIELD TO AVOID EXISTING UNDERGROUND CABLE & UTILITY CONFLICTS, PER APPROVAL BY ENGINEER.
- THE PROPOSED TOWER FOUNDATION SHALL NOT BE PLACED CLOSER THAN 10 FT FROM EXISTING TOWER FOUNDATION. THE MINIMUM 10 FT SEPARATION IS MEASURED FROM EDGE OF PROPOSED FOUNDATION TO EDGE OF EXISTING FOUNDATION.
- REMOVAL AND DISPOSAL OF SURPLUS, UNSTABLE, UNSUITABLE, AND ORGANIC MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

CONTACT NOTES:

- CALL JULIE OR DIGGER FOR CABLE LOCATES, CALL IDOT EMC AT (708) 524-2145 FOR IDOT MAINTAINED CABLE LOCATES. THE PROPOSED TOWER FOUNDATIONS & PROPOSED UNIT DUCTS SHOULD ONLY BE INSTALLED AFTER THE LOCATES HAVE BEEN COMPLETED.
- CALL (ISTHA) ILLINOIS STATE TOLL HIGHWAY AUTHORITY AT 630-241-6800 TO APPLY FOR PERMIT AND OBTAIN LOCATES AND BEFORE START OF ANY WORK ON TOLLWAY RIGHT OF WAY.
- CALL VILLAGE OF BURR RIDGE AT 630-654-8181 TO APPLY FOR PERMIT AND OBTAIN LOCATES AND BEFORE START OF ANY WORK ON VILLAGE RIGHT OF WAY.

REMOVAL NOTES:

- LOCATIONS OF EXISTING LIGHTING TOWERS SHOWN ON PLAN DRAWINGS ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL REVIEW THE CONTRACT DRAWINGS AND ASCERTAIN EXISTING SITE CONDITIONS TO VERIFY THE EXTENT OF DEMOLITION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR PERFORMING ALL REMOVAL REQUIRED IN THIS CONTRACT.
- COMMENCEMENT OF WORK SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF EXISTING FOUNDATIONS AND UNIT DUCT FOR THIS WORK AND ACCESS TO WORK SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR ADDITIONAL LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN DURING SUCH AN EXAMINATION.
- ALL SALVAGE EXISTING EQUIPMENT INCLUDING, TEMPORARY WOOD POLES, LUMINAIRES, MAST ARMS SHALL BE RETURNED TO STATE STOCK. THE CONTRACTOR SHALL CALL EMC AT (708) 524-2145 FOR MORE DETAILS AND DELIVERY PLACE.
- REMOVE EXISTING TOWER FOUNDATION, GROUND RODS, UNIT DUCT UP TO 10FT FROM THE CENTER OF FOUNDATION. THE VOID CAUSED BY THE REMOVAL OF THE TOWER FOUNDATION SHALL BE BACKFILLED WITH SUITABLE EXCAVATED MATERIAL APPROVED BY THE ENGINEER.
- LOCATIONS SELECTED FOR COLLECTION OF DEBRIS AND/OR STORAGE OF EQUIPMENT SHALL BE AS APPROVED BY THE ENGINEER.
- ALL EXISTING TOWERS TO BE REMOVED SHALL BE SCRAPPED AND DISPOSED OF IN A LEGAL MANNER.
- REMOVAL OF TEMPORARY LIGHTING UNIT SHALL INCLUDE POLE, AERIAL CABLE, LUMINAIRE, MAST ARM AND ALL ASSOCIATED APPARATUS AND CONNECTIONS. ALL TEMPORARY LIGHT LUMINAIRES WILL BE INSPECTED BY THE ENGINEER BEFORE BEING BOXED IN NEW CONTAINERS AND DELIVERD TO STORAGE FACILITY OF IDOT DISTRICT 1.
- TOWER CONCRETE FOUNDATION SHALL BE REMOVED TO AT LEAST 2 FT BELOW GRADE. REMOVE EXISTING WORK PAD WHERE APPLICABLE. THE COST OF THIS SHALL BE INCLUDED IN FOUNDATION REMOVAL.
- VERIFY AND LOCATE UNDERGROUND CIRCUIT (UNIT DUCTS) ROUTING OF TOWERS UNDER REPLACEMENT AS PER SECTION 803, MARK THE ROUTING SO THAT DURING DIGGING OF TRENCH FOR PROPOSED UNIT DUCT THE EXISTING UNIT DUCT IS PROTECTED TO MAINTAIN THE LIGHTING SYSTEM IN OPERATION. IF THE PROPOSED TOWER FOUNDATION COMES ON EXISTING UNIT DUCT, RE-ROUTE THE UNIT DUCT TEMPORARY UNTIL PROPOSED TOWER STARTS FUNCTIONING.

SYMBOL LEGEND:

-  REMOVE OF EXISTING LIGHTING TOWER AND FOUNDATION, EXISTING TOWER TO BE SCRAPPED. HIGH MAST LUMINAIRES TO BE SALVAGED.
-  EXISTING LIGHTING TOWER TO REMAIN, EXISTING LUMINAIRES AS PER PLAN
-  PROPOSED LIGHTING TOWER ON NEW FOUNDATION, PROPOSED LUMINAIRES, NUMBER OF LUMINAIRES AS PER PLAN HANDHOLE ORIENTATION
-  REMOVE TOWER FOUNDATION ONLY
-  REMOVE TEMPORARY LIGHTING UNIT COMPLETE WITH ALL ACCESSORIES, SALVAGE TO IDOT
-  EXISTING LIGHTING UNIT TO REMAIN
-  REMOVE EXISTING AERIAL CABLE AND MESSANGER WIRE
-  EXISTING UNIT DUCT, SIZE AS PER PLANS
-  UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
-  PROPOSED UNIT DUCT, SIZE AS PER PLANS
-  EXISTING LIGHTING CONTROLLER
-  GROUND ROD, 5/8" DIA x 10' LONG
-  PROPOSED LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM METAL FOUNDATION, 10" X 8' LONG BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT LUMINAIRE SAFETY CABLE ASSEMBLY

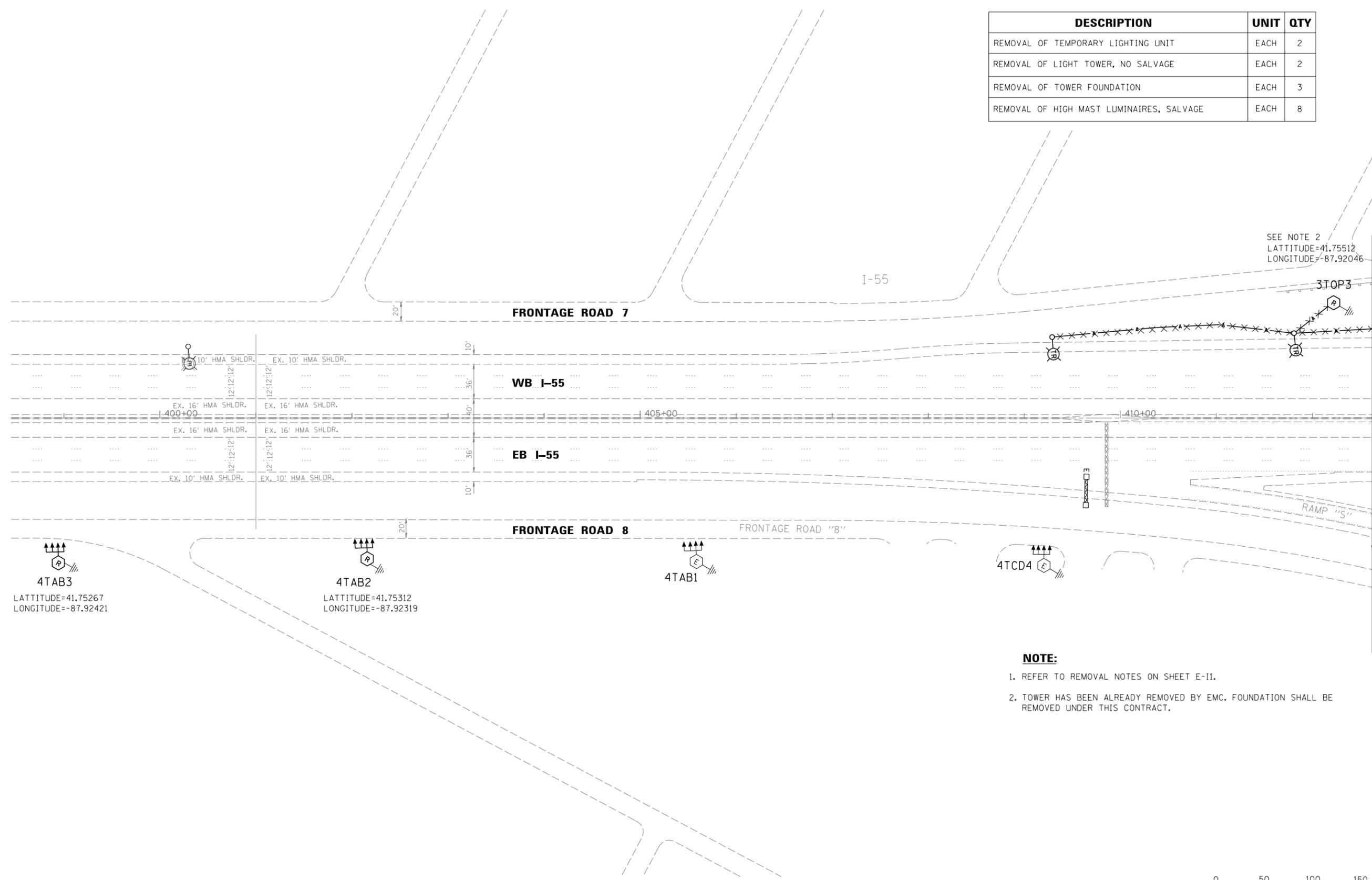
ABBREVIATIONS:

- E EXISTING TO REMAIN
- E.O.P. EDGE OF PAVEMENT
- EMC ELECTRICAL MAINTENANCE CONTRACT
- FT FEET OR FOOT
- GND GROUND
- JB JUNCTION BOX
- MA MAST ARM
- NO. NUMBER
- N.T.S. NOT TO SCALE
- P PROPOSED
- PVC POLYVINYL CHLORIDE
- RGS RIGID GALVANISED STEEL
- R REMOVE
- STA. STATION
- U.N.O. UNLESS NOTED OTHERWISE
- HPS HIGH PRESSURE SODIUM

| | | | | | | | | | | | | |
|---|----------------------|---------------|--|---|--|--------------------|---------------------------|-----------|---------|--------|--------------|-----------|
|  DELTA ENGINEERING GROUP, LLC | USER NAME : #USER# | DESIGNED - HM | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SYMBOLS LEGEND, GENERAL NOTES AND REMOVAL NOTES | | | F.A. RTÉ. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE : #SCALE# | CHECKED - HS | REVISED - | | 2015-039L | VARIOUS | 84 | 24 | | | | |
| PLOT DATE : 8/11/2016 | DATE - 08-11-2016 | REVISED - | SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA. | | | CONTRACT NO. 62A98 | | | | | | |
| | | | | | | | ILLINOIS FED. AID PROJECT | | | | | |



| DESCRIPTION | UNIT | QTY |
|--|------|-----|
| REMOVAL OF TEMPORARY LIGHTING UNIT | EACH | 2 |
| REMOVAL OF LIGHT TOWER, NO SALVAGE | EACH | 2 |
| REMOVAL OF TOWER FOUNDATION | EACH | 3 |
| REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE | EACH | 8 |



SEE NOTE 2
 LATTITUDE=41.75512
 LONGITUDE=-87.92046

| | | |
|--------------------|--------------------|-----|
| EX. 10' HMA SHLDR. | EX. 10' HMA SHLDR. | 10' |
| EX. 16' HMA SHLDR. | EX. 16' HMA SHLDR. | 36' |
| EX. 16' HMA SHLDR. | EX. 16' HMA SHLDR. | 36' |
| EX. 10' HMA SHLDR. | EX. 10' HMA SHLDR. | 10' |

4TAB3
 LATTITUDE=41.75267
 LONGITUDE=-87.92421

4TAB2
 LATTITUDE=41.75312
 LONGITUDE=-87.92319

4TAB1

4TCD4

- NOTE:**
- REFER TO REMOVAL NOTES ON SHEET E-11.
 - TOWER HAS BEEN ALREADY REMOVED BY EMC. FOUNDATION SHALL BE REMOVED UNDER THIS CONTRACT.



MATCH LINE - SEE SHEET E-LR2



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

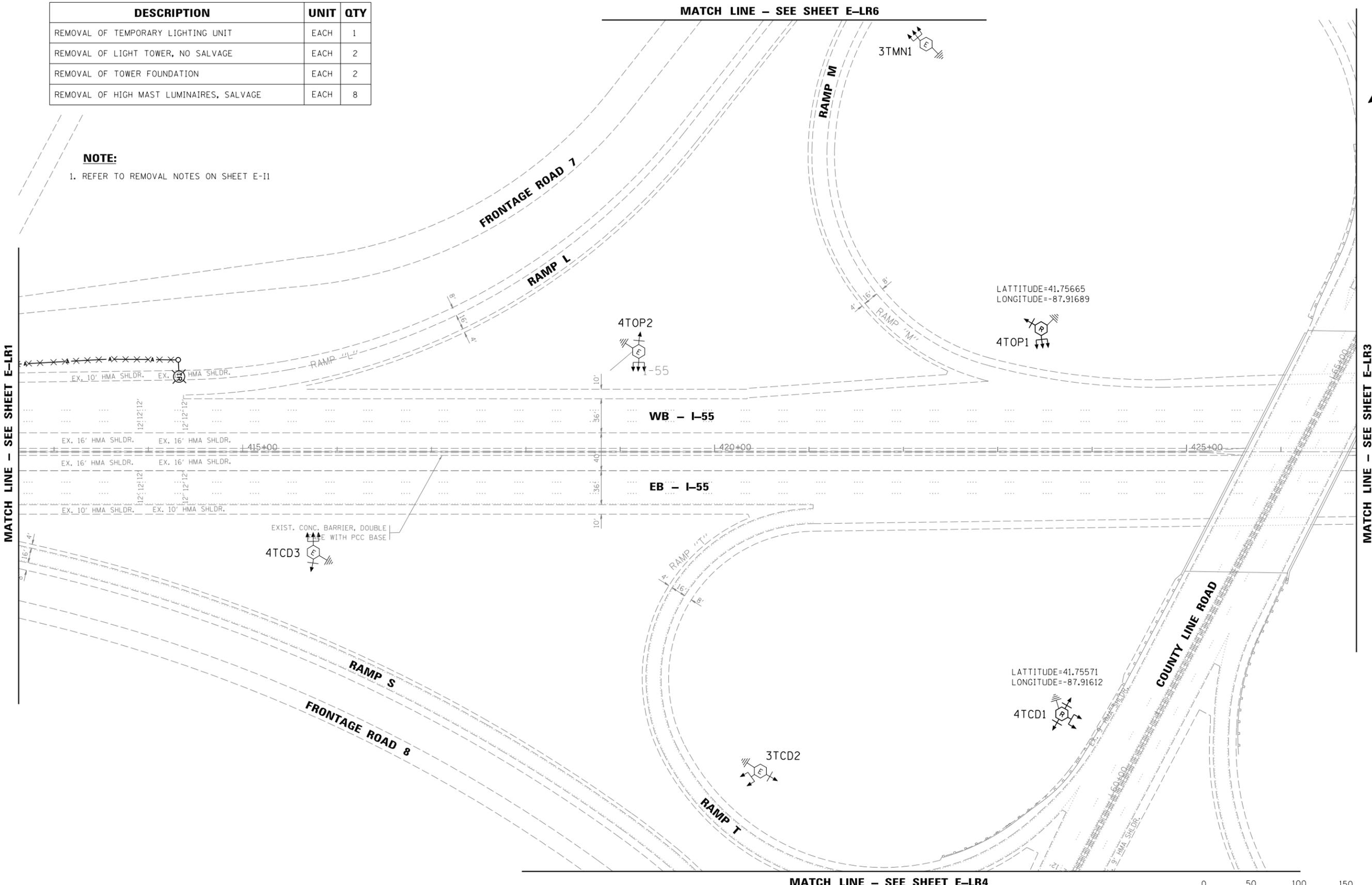
LIGHTING REMOVAL PLAN
 I-55 /S. COUNTY LINE ROAD - SHEET 1 OF 7

| | | | | |
|--------------------|-----------|--------|---------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 25 |
| CONTRACT NO. 62A98 | | | ILLINOIS FED. AID PROJECT | |

E-LR1

| DESCRIPTION | UNIT | QTY |
|--|------|-----|
| REMOVAL OF TEMPORARY LIGHTING UNIT | EACH | 1 |
| REMOVAL OF LIGHT TOWER, NO SALVAGE | EACH | 2 |
| REMOVAL OF TOWER FOUNDATION | EACH | 2 |
| REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE | EACH | 8 |

NOTE:
1. REFER TO REMOVAL NOTES ON SHEET E-11



MATCH LINE - SEE SHEET E-LR1

MATCH LINE - SEE SHEET E-LR3

MATCH LINE - SEE SHEET E-LR6

MATCH LINE - SEE SHEET E-LR4



E-LR2



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| PLOT SCALE = *SCALE* | DRAWN - GJ | REVISED - |
| PLOT DATE = 8/11/2016 | CHECKED - HS | REVISED - |
| | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
I-55 /S. COUNTY LINE ROAD - SHEET 2 OF 7
SCALE: 1"=50' SHEET 2 OF 13 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 26 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62A98 | |

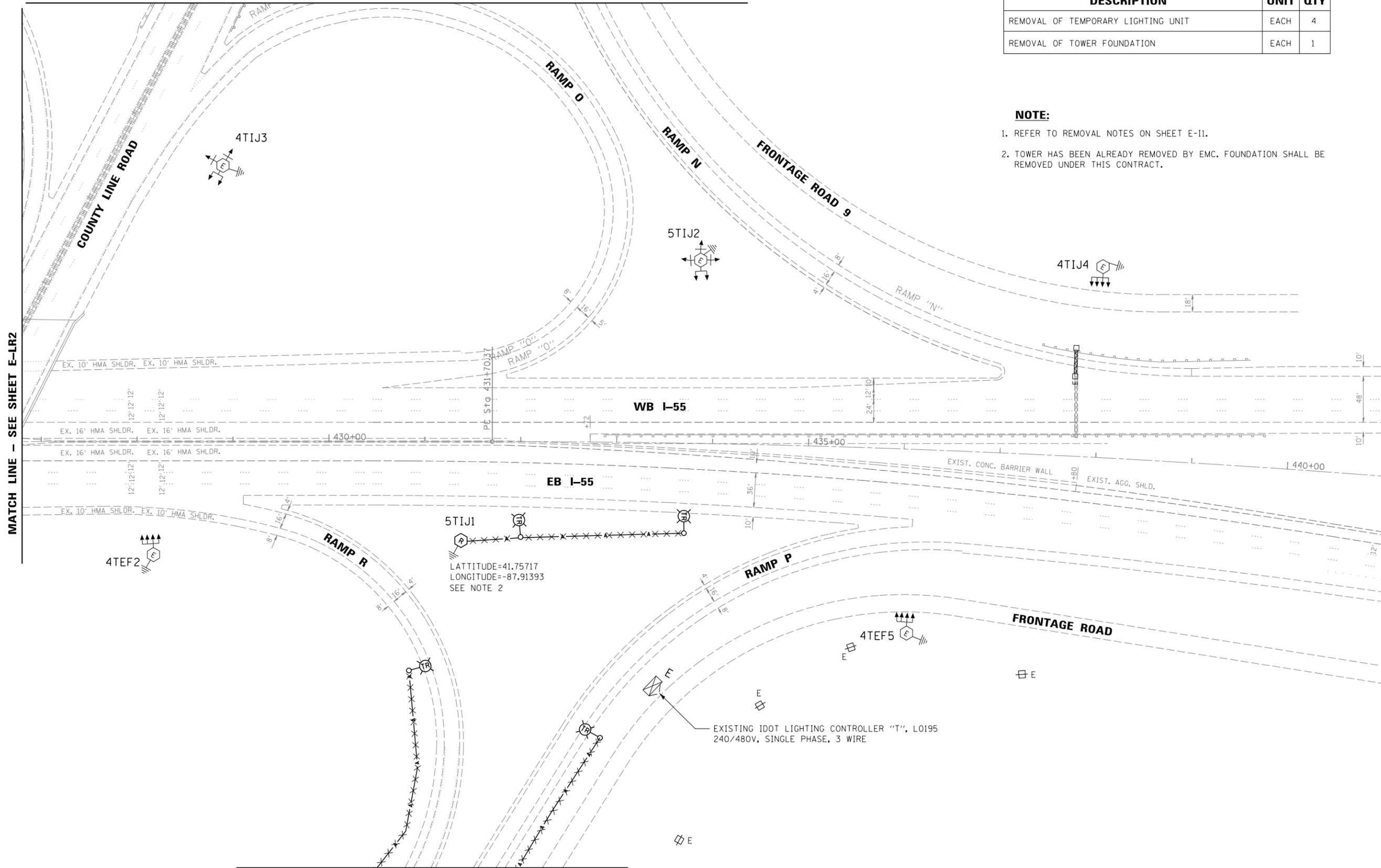
MATCH LINE - SEE SHEET E-LR6

| DESCRIPTION | UNIT | QTY |
|------------------------------------|------|-----|
| REMOVAL OF TEMPORARY LIGHTING UNIT | EACH | 4 |
| REMOVAL OF TOWER FOUNDATION | EACH | 1 |



NOTE:

- REFER TO REMOVAL NOTES ON SHEET E-I1.
- TOWER HAS BEEN ALREADY REMOVED BY EMC. FOUNDATION SHALL BE REMOVED UNDER THIS CONTRACT.



MATCH LINE - SEE SHEET E-LR4



E-LR3



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| PLOT SCALE = *SCALE* | DRAWN - GJ | REVISED - |
| PLOT DATE = 8/11/2016 | CHECKED - HS | REVISED - |
| | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

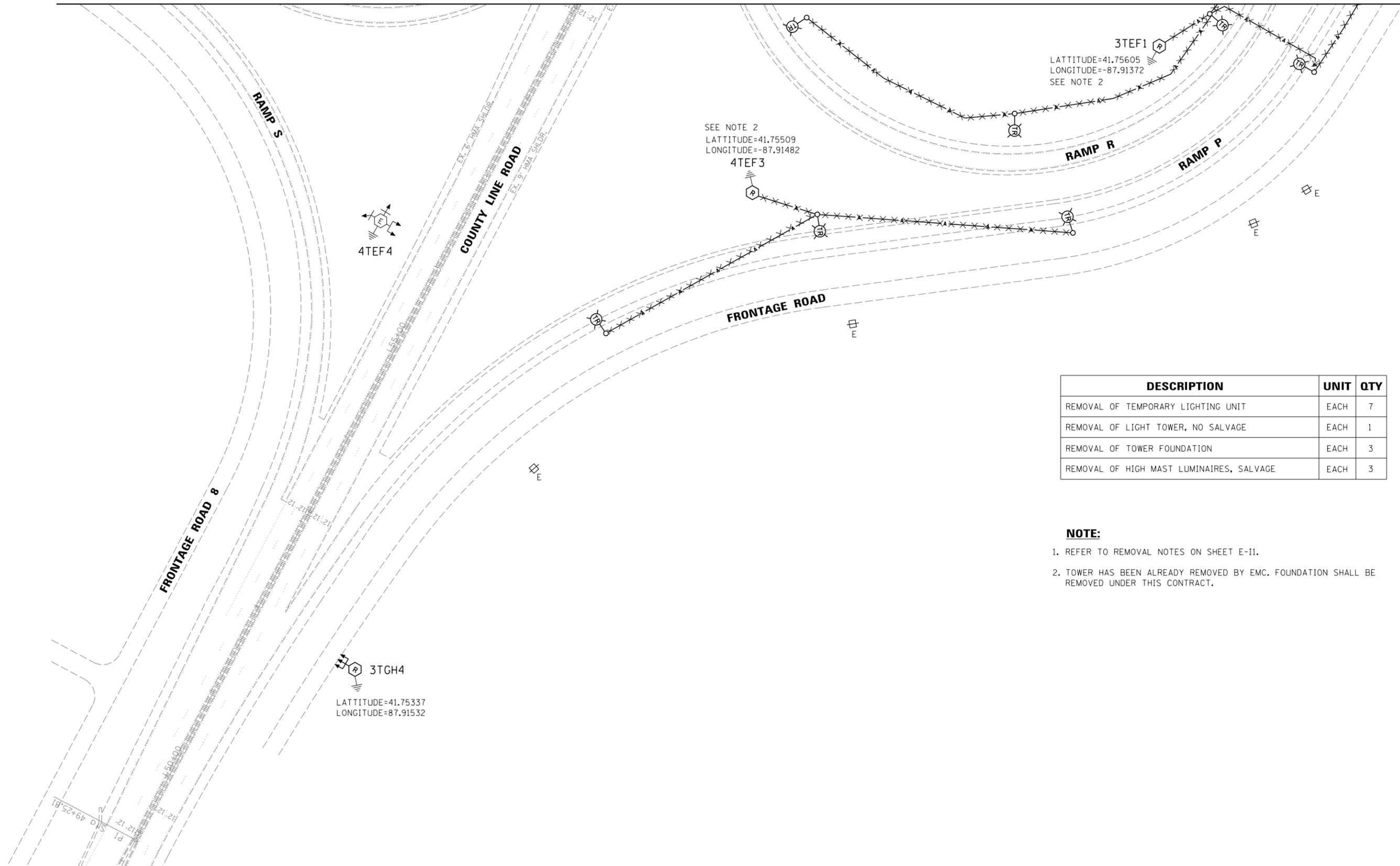
LIGHTING REMOVAL PLAN
I-55 /S. COUNTY LINE ROAD - SHEET 3 OF 7

SCALE: 1"=50' SHEET 3 OF 13 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 27 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

MATCH LINE - SEE SHEET E-LR2

MATCH LINE - SEE SHEET E-LR3



3TEF1
 LATTITUDE=41.75605
 LONGITUDE=-87.91372
 SEE NOTE 2

SEE NOTE 2
 LATTITUDE=41.75509
 LONGITUDE=-87.91482
 4TEF3

4TEF4

3TGH4
 LATTITUDE=41.75337
 LONGITUDE=87.91532

| DESCRIPTION | UNIT | QTY |
|--|------|-----|
| REMOVAL OF TEMPORARY LIGHTING UNIT | EACH | 7 |
| REMOVAL OF LIGHT TOWER, NO SALVAGE | EACH | 1 |
| REMOVAL OF TOWER FOUNDATION | EACH | 3 |
| REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE | EACH | 3 |

- NOTE:**
- REFER TO REMOVAL NOTES ON SHEET E-11.
 - TOWER HAS BEEN ALREADY REMOVED BY EMC. FOUNDATION SHALL BE REMOVED UNDER THIS CONTRACT.

MATCH LINE - SEE SHEET E-LR5



E-LR4



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

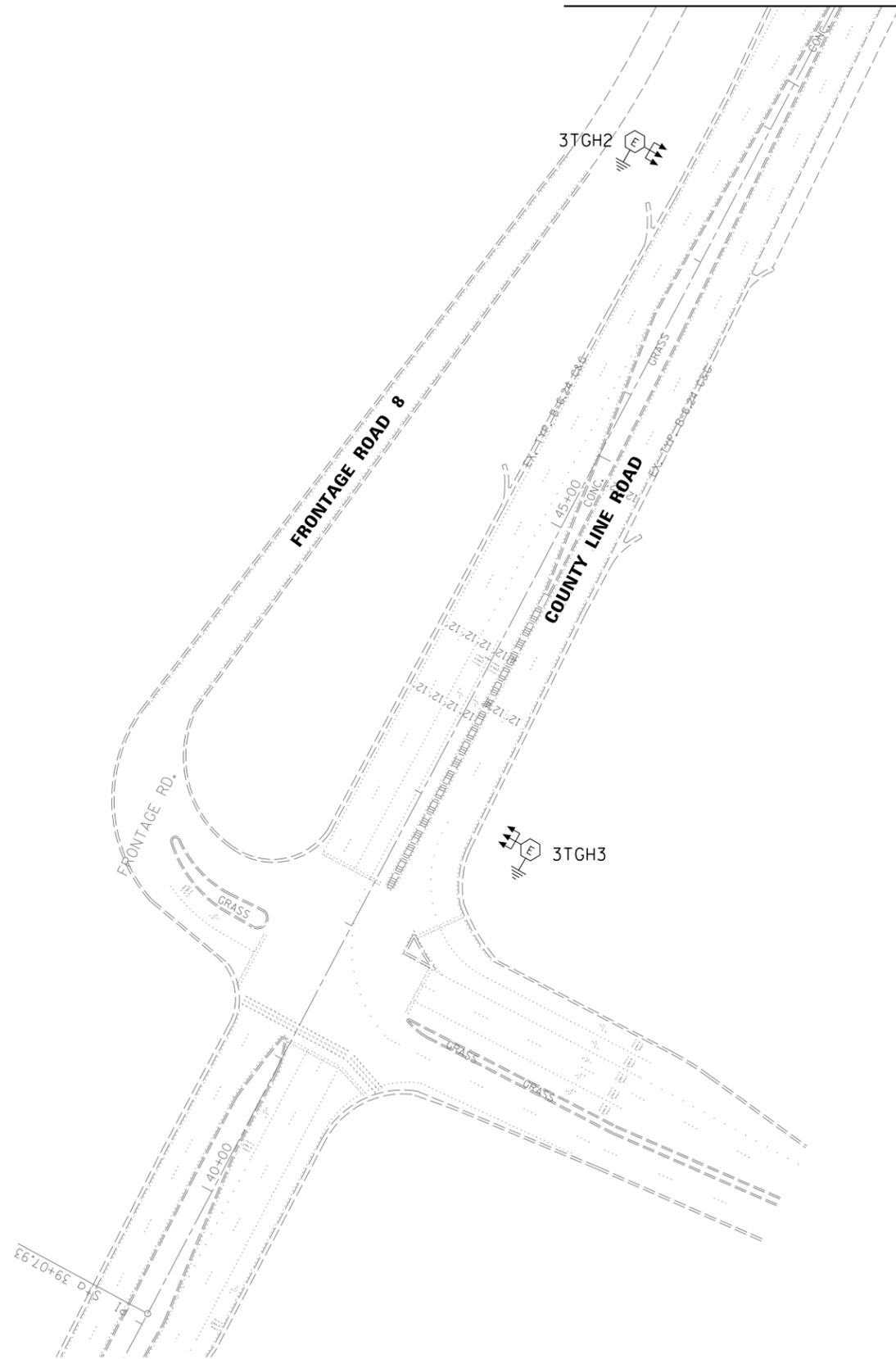
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
I-55 /S. COUNTY LINE ROAD - SHEET 4 OF 7

SCALE: 1"=50' SHEET 4 OF 13 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 28 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

MATCH LINE - SEE SHEET E-LR4



NOTE:

- 1. NO REMOVAL WORK ON THIS SHEET.



E-LR5



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING REMOVAL PLAN
I-55 /S. COUNTY LINE ROAD - SHEET 5 OF 7**

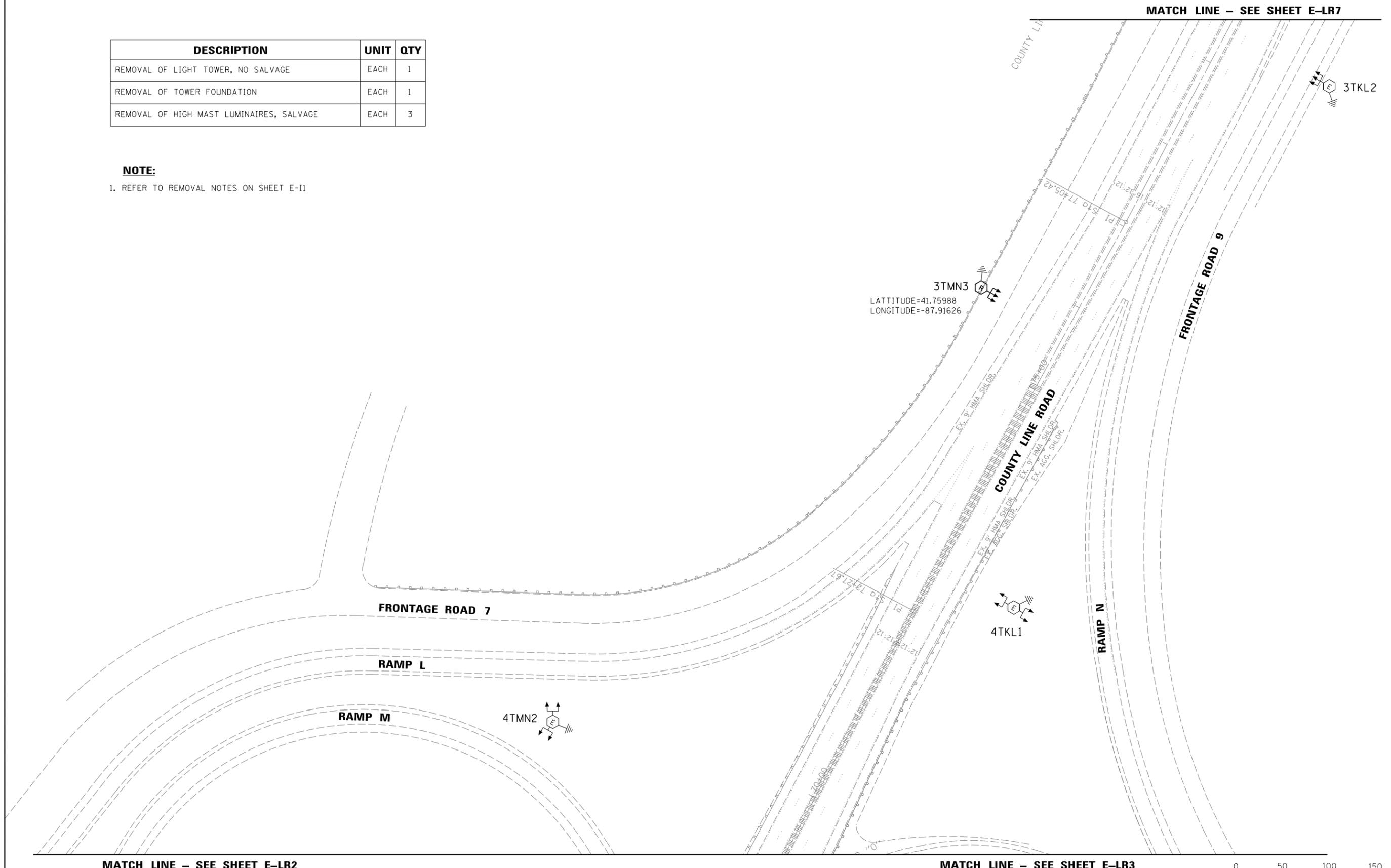
SCALE: 1"=50' SHEET 5 OF 13 SHEETS STA. TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------------|-----------|
| | 2015-039L | COOK | 84 | 29 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

| DESCRIPTION | UNIT | QTY |
|--|------|-----|
| REMOVAL OF LIGHT TOWER, NO SALVAGE | EACH | 1 |
| REMOVAL OF TOWER FOUNDATION | EACH | 1 |
| REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE | EACH | 3 |

NOTE:

- REFER TO REMOVAL NOTES ON SHEET E-I1



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = #USER# | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = #SCALE# | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
I-55 /S. COUNTY LINE ROAD - SHEET 6 OF 7
SCALE: 1"=50' SHEET 6 OF 13 SHEETS STA. TO STA.

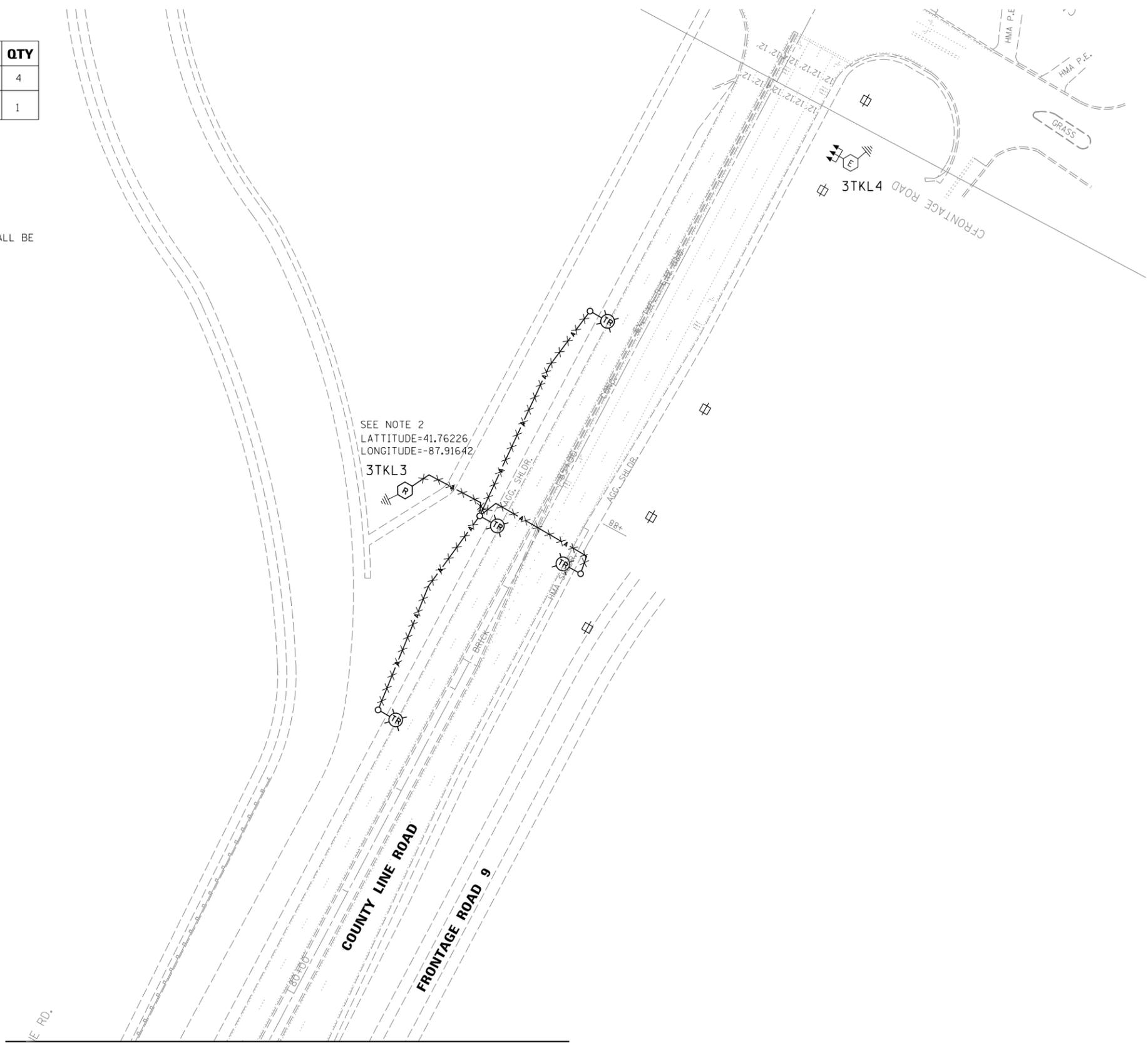
| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 30 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

E-LR6

| DESCRIPTION | UNIT | QTY |
|------------------------------------|------|-----|
| REMOVAL OF TEMPORARY LIGHTING UNIT | EACH | 4 |
| REMOVAL OF TOWER FOUNDATION | EACH | 1 |

NOTE:

- REFER TO REMOVAL NOTES ON SHEET E-11.
- TOWER HAS BEEN ALREADY REMOVED BY EMC. FOUNDATION SHALL BE REMOVED UNDER THIS CONTRACT.



SEE NOTE 2
 LATITUDE=41.76226
 LONGITUDE=-87.91642
 3TKL3

3TKL4

MATCH LINE – SEE SHEET E-LR6



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = #USER# | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = #SCALE# | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

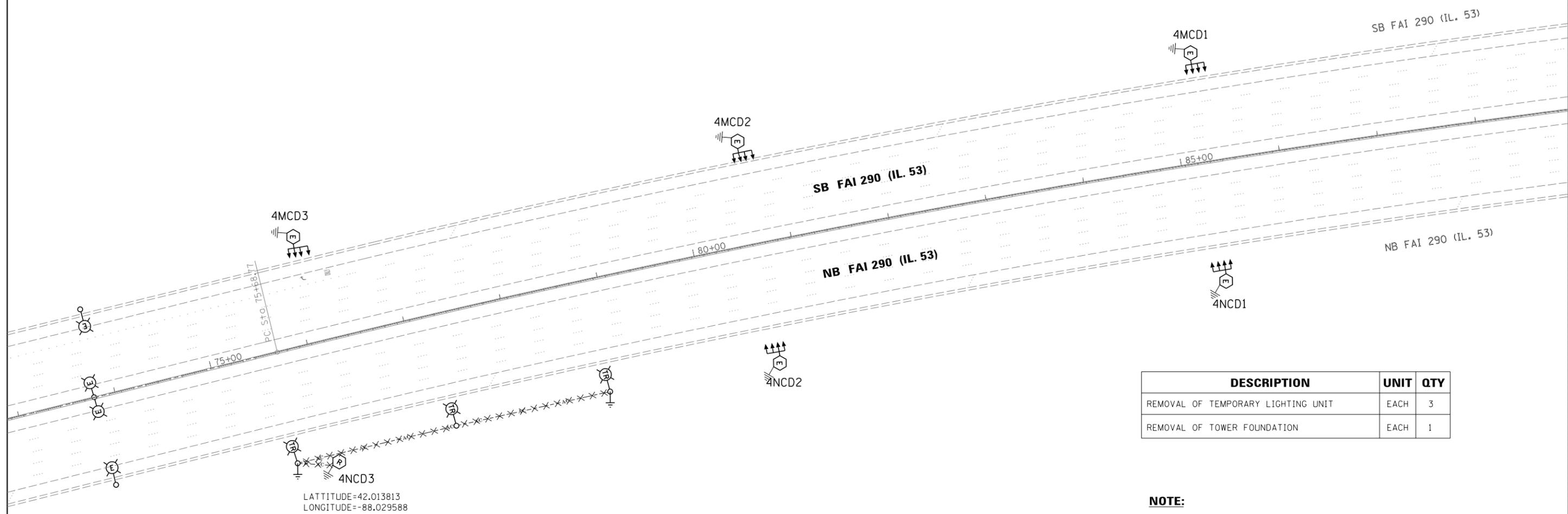
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
 I-55 /S. COUNTY LINE ROAD – SHEET 7 OF 7

SCALE: 1"=50' SHEET 7 OF 13 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 31 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

E-LR7



LATTITUDE=42.013813
 LONGITUDE=-88.029588
 SEE NOTE 3

| DESCRIPTION | UNIT | QTY |
|------------------------------------|------|-----|
| REMOVAL OF TEMPORARY LIGHTING UNIT | EACH | 3 |
| REMOVAL OF TOWER FOUNDATION | EACH | 1 |

- NOTE:**
- REFER TO REMOVAL NOTES ON SHEET E-11
 - EXISTING IDOT LIGHTING CONTROLLER "N" IS 240/480V, SINGLE PHASE 3W IS LOCATED AT NB 1-290 / 1L-53
 LATTITUDE=42.024800
 LONGITUDE=-88.030567
 - TOWER HAS BEEN ALREADY REMOVED BY EMC. FOUNDATION SHALL BE REMOVED UNDER THIS CONTRACT.



E-LR8



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

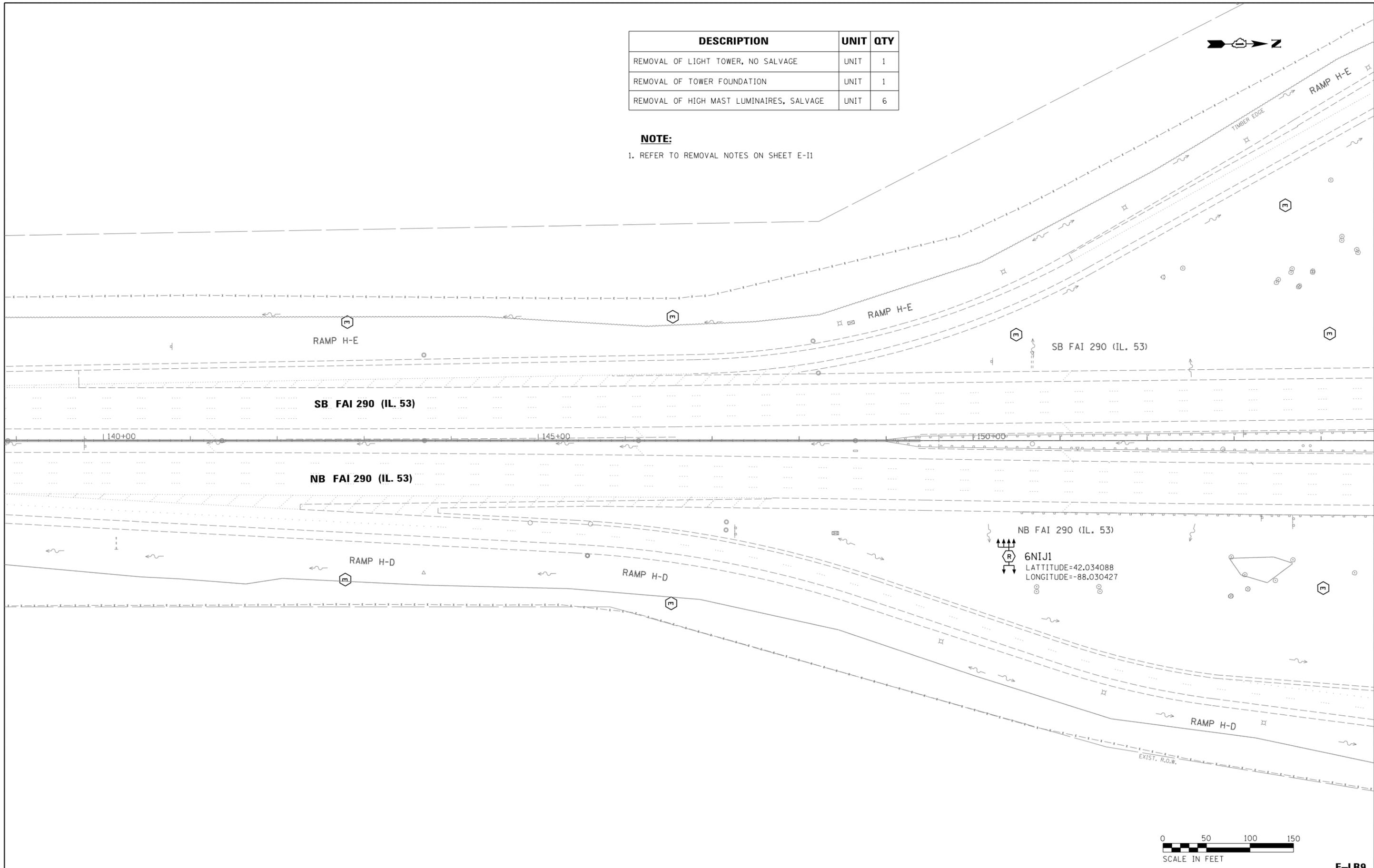
LIGHTING REMOVAL PLAN
I-290 / IL 53 AT SOUTH OF IL 72 - SHEET 1 OF 2

SCALE: 1"=50' SHEET 8 OF 13 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 32 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| DESCRIPTION | UNIT | QTY |
|--|------|-----|
| REMOVAL OF LIGHT TOWER, NO SALVAGE | UNIT | 1 |
| REMOVAL OF TOWER FOUNDATION | UNIT | 1 |
| REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE | UNIT | 6 |

NOTE:
1. REFER TO REMOVAL NOTES ON SHEET E-11



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
I-290 / IL 53 AT SOUTH OF IL 72 - SHEET 2 OF 2

SCALE: 1"=50' SHEET 9 OF 13 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 33 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

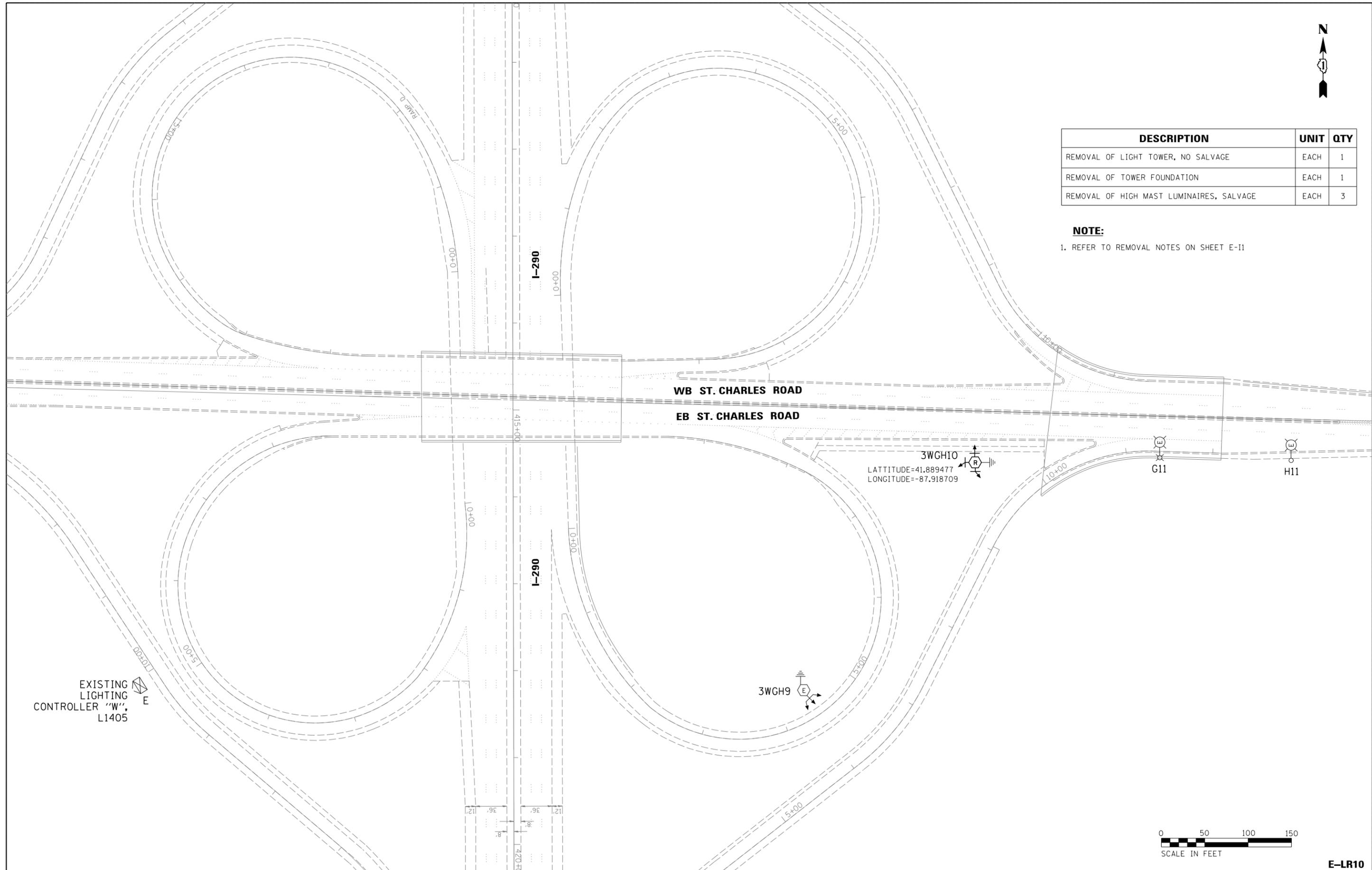
E-LR9



| DESCRIPTION | UNIT | QTY |
|--|------|-----|
| REMOVAL OF LIGHT TOWER, NO SALVAGE | EACH | 1 |
| REMOVAL OF TOWER FOUNDATION | EACH | 1 |
| REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE | EACH | 3 |

NOTE:

1. REFER TO REMOVAL NOTES ON SHEET E-11



EXISTING LIGHTING CONTROLLER "W", L1405

3WGH10
 LATTITUDE=41.889477
 LONGITUDE=-87.918709

3WGH9

G11

H11



E-LR10



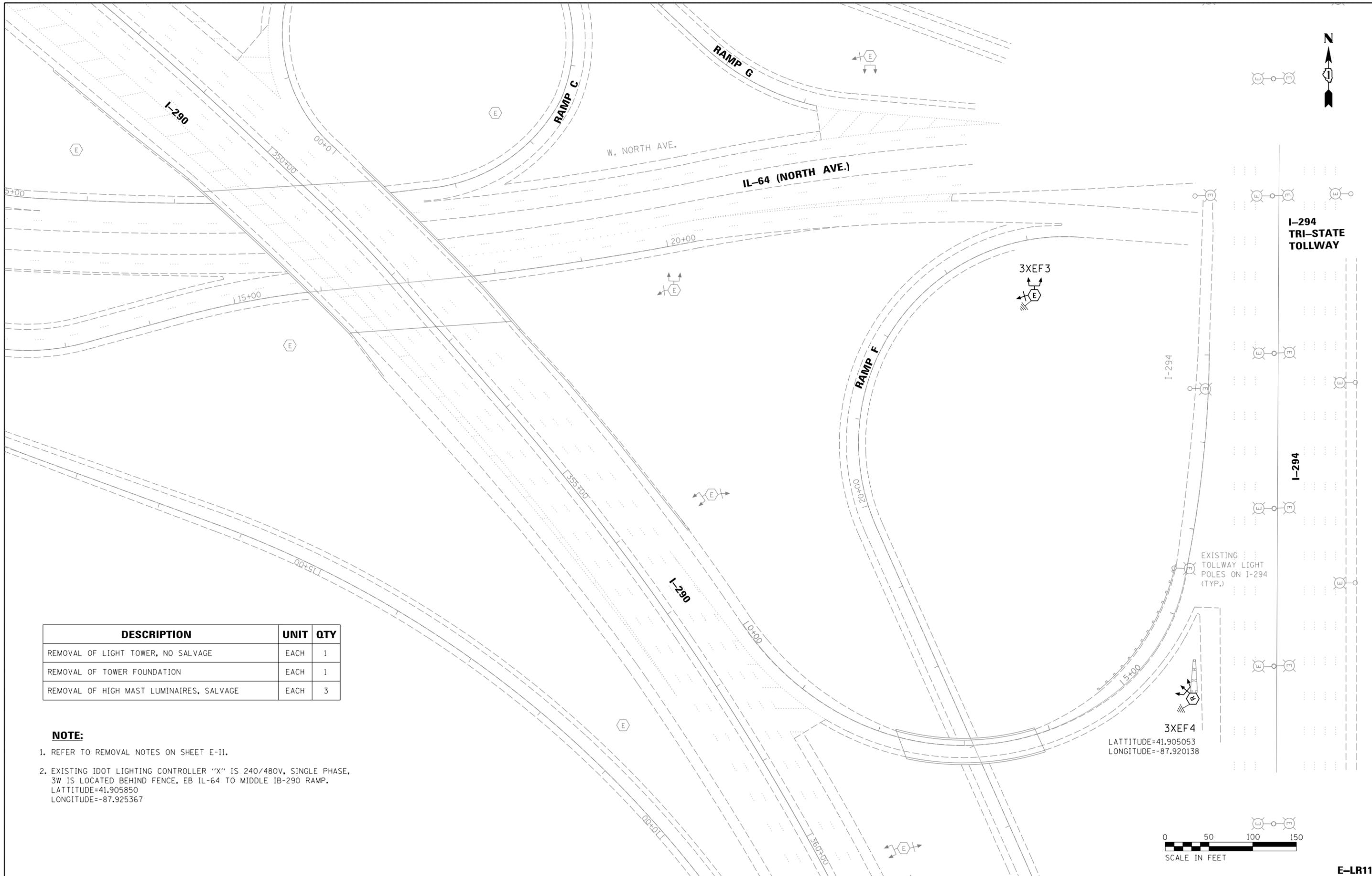
| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
 I-290 / ST. CHARLES ROAD - SHEET 1 OF 1

SCALE: 1"=50' SHEET 10 OF 13 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | | 84 | 34 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

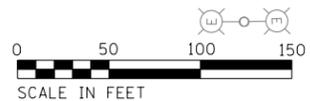


| DESCRIPTION | UNIT | QTY |
|--|------|-----|
| REMOVAL OF LIGHT TOWER, NO SALVAGE | EACH | 1 |
| REMOVAL OF TOWER FOUNDATION | EACH | 1 |
| REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE | EACH | 3 |

NOTE:

- REFER TO REMOVAL NOTES ON SHEET E-11.
- EXISTING IDOT LIGHTING CONTROLLER "X" IS 240/480V, SINGLE PHASE, 3W IS LOCATED BEHIND FENCE, EB IL-64 TO MIDDLE IB-290 RAMP. LATTITUDE=41.905850 LONGITUDE=-87.925367

3XEF4
 LATTITUDE=41.905053
 LONGITUDE=-87.920138



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

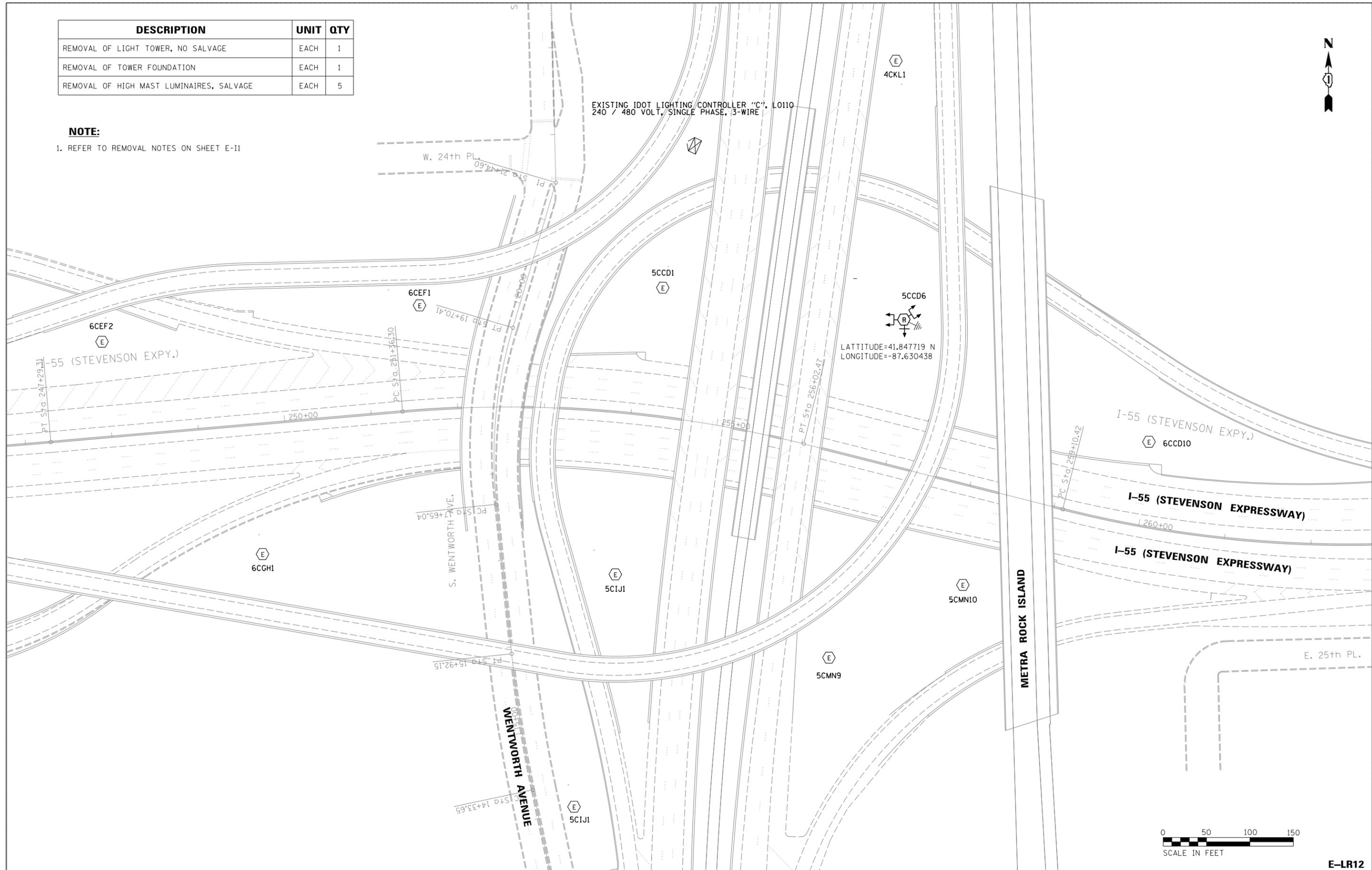
LIGHTING REMOVAL PLAN
I-290 / IL-64 (NORTH AVE.) - SHEET 1 OF 1
 SCALE: 1"=50' SHEET 11 OF 13 SHEETS STA. TO STA.

| | | | | |
|--------------------|-----------|--------|---------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | DUPAGE | 84 | 35 |
| CONTRACT NO. 62A98 | | | ILLINOIS FED. AID PROJECT | |

E-LR11

| DESCRIPTION | UNIT | QTY |
|--|------|-----|
| REMOVAL OF LIGHT TOWER, NO SALVAGE | EACH | 1 |
| REMOVAL OF TOWER FOUNDATION | EACH | 1 |
| REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE | EACH | 5 |

NOTE:
1. REFER TO REMOVAL NOTES ON SHEET E-11



| | | |
|------------------------|-------------------|-----------|
| USER NAME = \$USER\$ | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING REMOVAL PLAN
I-55 / WENTWORTH AVE. - SHEET 1 OF 1**

SCALE: 1"=50' SHEET 12 OF 13 SHEETS STA. TO STA.

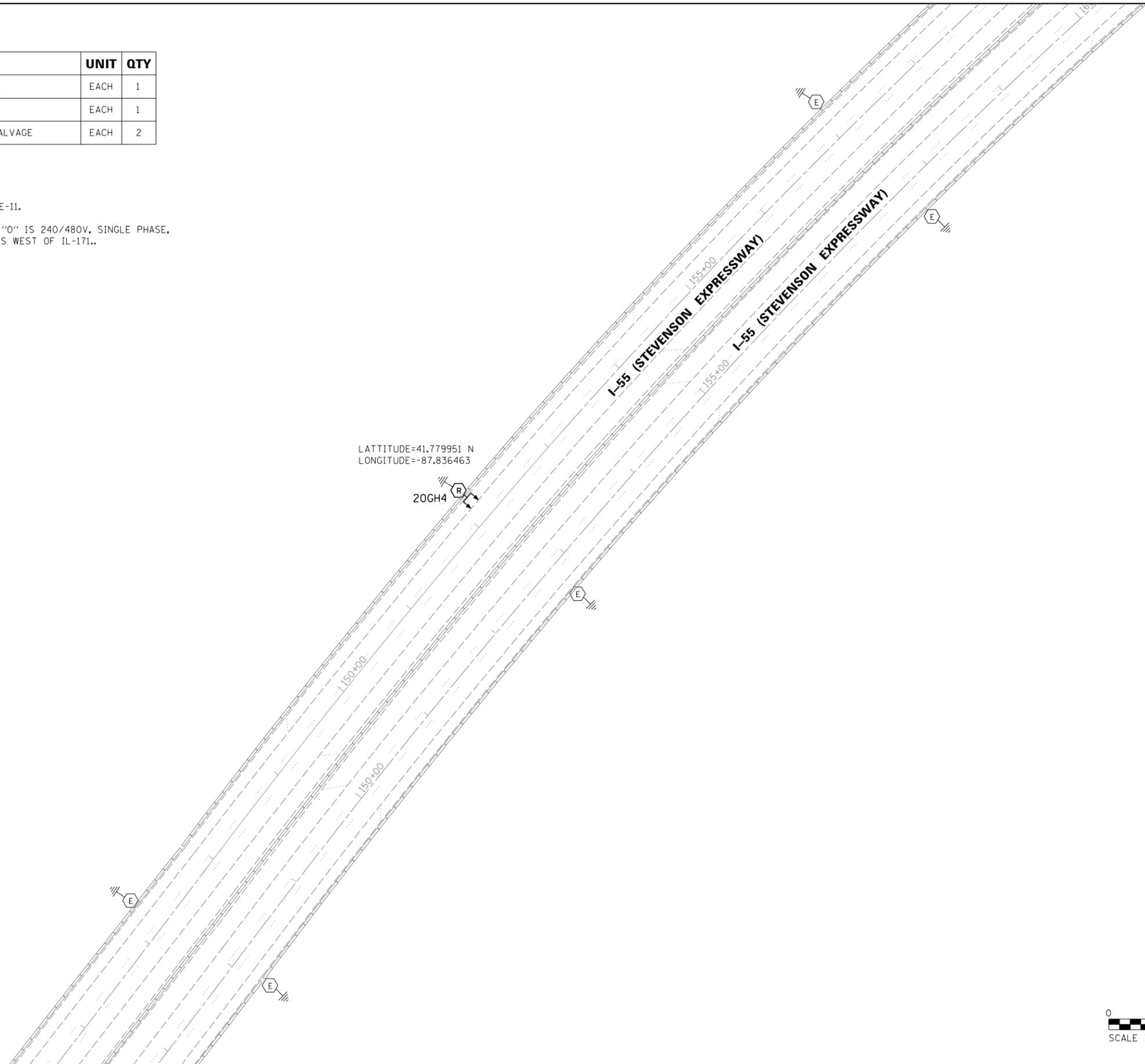
| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 36 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

E-LR12

| DESCRIPTION | UNIT | QTY |
|--|------|-----|
| REMOVAL OF LIGHT TOWER, NO SALVAGE | EACH | 1 |
| REMOVAL OF TOWER FOUNDATION | EACH | 1 |
| REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE | EACH | 2 |

NOTE:

- REFER TO REMOVAL NOTES ON SHEET E-11.
- EXISTING IDOT LIGHTING CONTROLLER "0" IS 240/480V, SINGLE PHASE, 3W IS LOCATED AT IB 1-55, 1.25 MILES WEST OF IL-171..
LATTITUDE=41.848267
LONGITUDE=-87.8311567



E-LR13



| | | |
|------------------------|-------------------|-----------|
| USER NAME = \$USER\$ | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

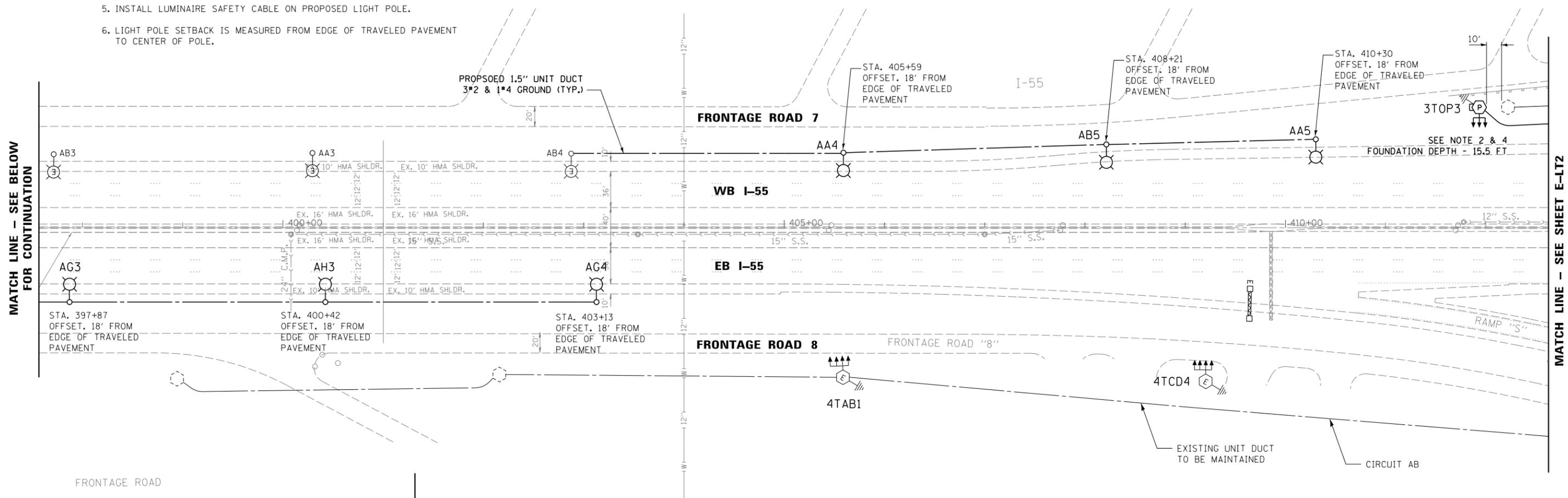
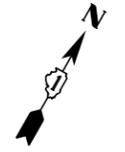
LIGHTING REMOVAL PLAN
I-55 / 85TH AVE. (8500 W) – SHEET 1 OF 1

SCALE: 1"=50' SHEET 13 OF 13 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 37 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

NOTES:

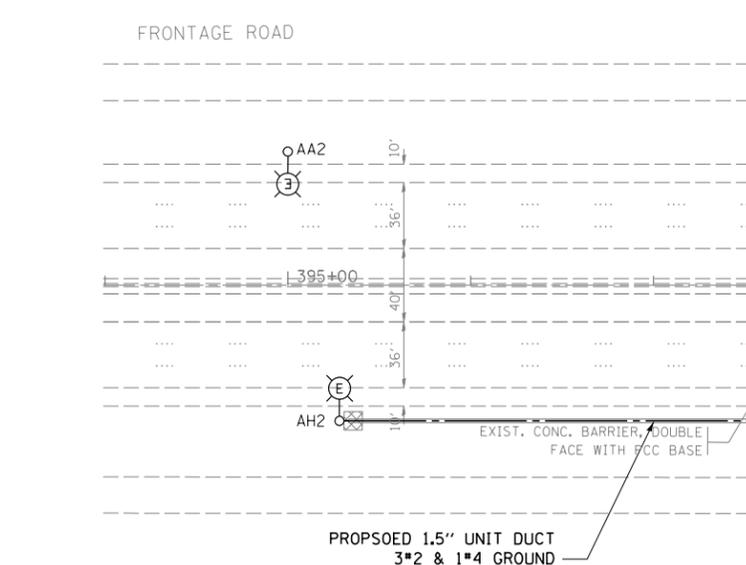
1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
2. PROPOSED LIGHTING TOWER 100FT WITH 750W HPS, 240V LUMINAIRES ON 48" DIA CONCRETE FOUNDATION.
3. REFER SHEET E-II FOR GENERAL NOTES.
4. REFER TO SHEET C-1 FOR PROPOSED TOWER CLEAR ZONE REQUIREMENTS AND PROPOSED TOWER SET BACK, IN ANY CASE PROPOSED TOWER SHALL NOT BE INSTALLED INSIDE CLEAR ZONE.
5. INSTALL LUMINAIRE SAFETY CABLE ON PROPOSED LIGHT POLE.
6. LIGHT POLE SETBACK IS MEASURED FROM EDGE OF TRAVELED PAVEMENT TO CENTER OF POLE.



MATCH LINE - SEE BELOW FOR CONTINUATION

MATCH LINE - SEE SHEET E-LT2

MATCH LINE - SEE ABOVE FOR CONTINUATION



| DESCRIPTION | UNIT | QTY |
|---|------|------|
| LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8 | EACH | 1 |
| UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE | FOOT | 1650 |
| LIGHT TOWER FOUNDATION, 48" DIAMETER | FOOT | 15.5 |
| LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750W | EACH | 3 |
| LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM | EACH | 6 |
| LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8' | EACH | 6 |
| BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE | EACH | 6 |
| LUMINAIRE SAFETY CABLE ASSEMBLY | EACH | 6 |
| LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT | EACH | 6 |



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| PLOT SCALE = *SCALE* | DRAWN - GJ | REVISED - |
| PLOT DATE = 8/11/2016 | CHECKED - HS | REVISED - |
| | DATE - 08-11-2016 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
I-55 / S. COUNTY LINE ROAD - SHEET 1 OF 7**

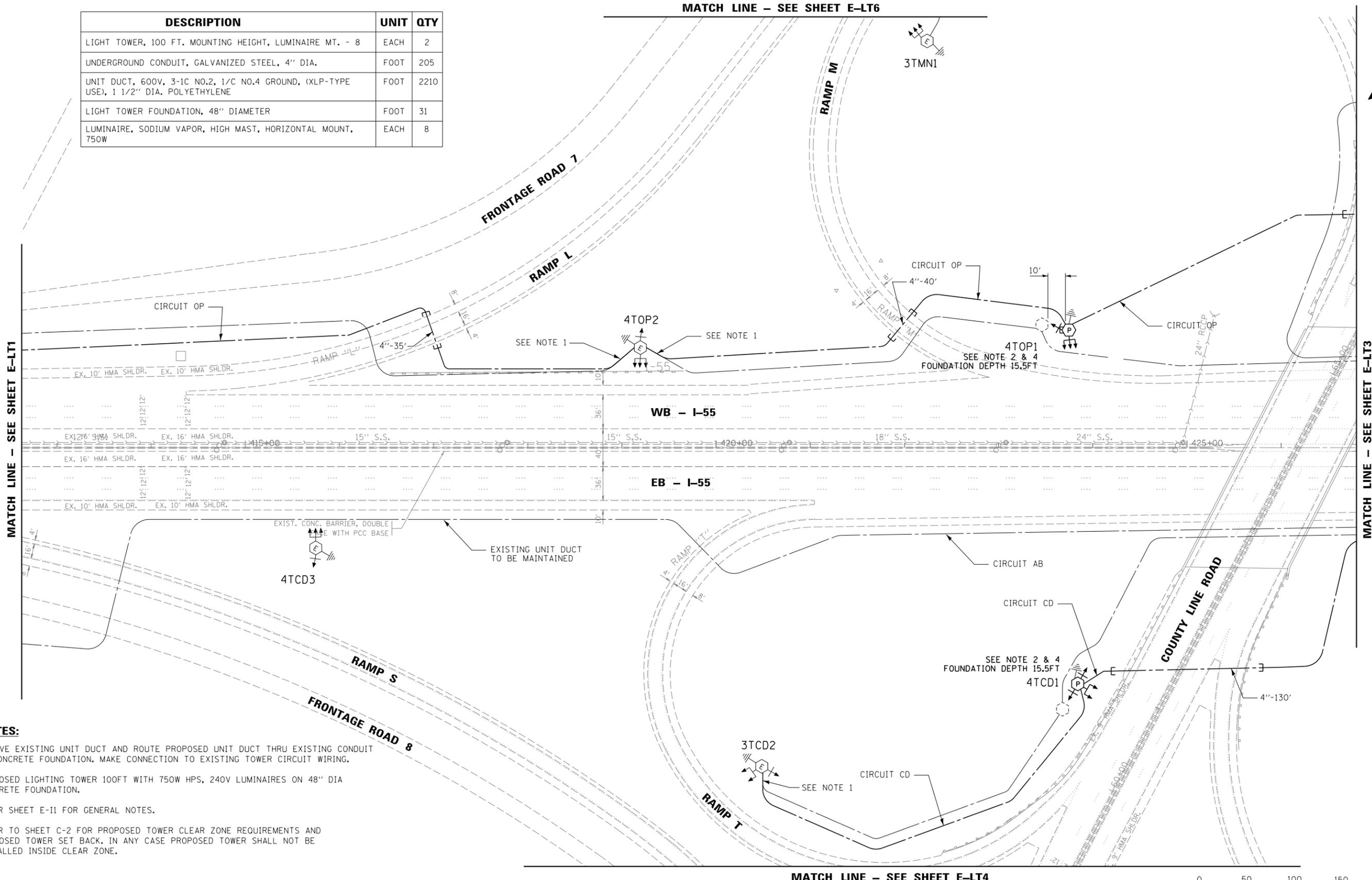
SCALE: 1"=50' SHEET 1 OF 13 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 38 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

E-LT1

| DESCRIPTION | UNIT | QTY |
|---|------|------|
| LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8 | EACH | 2 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 205 |
| UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE | FOOT | 2210 |
| LIGHT TOWER FOUNDATION, 48" DIAMETER | FOOT | 31 |
| LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750W | EACH | 8 |

MATCH LINE - SEE SHEET E-LT6



MATCH LINE - SEE SHEET E-LT1

MATCH LINE - SEE SHEET E-LT3

NOTES:

1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
2. PROPOSED LIGHTING TOWER 100FT WITH 750W HPS, 240V LUMINAIRES ON 48" DIA CONCRETE FOUNDATION.
3. REFER SHEET E-11 FOR GENERAL NOTES.
4. REFER TO SHEET C-2 FOR PROPOSED TOWER CLEAR ZONE REQUIREMENTS AND PROPOSED TOWER SET BACK. IN ANY CASE PROPOSED TOWER SHALL NOT BE INSTALLED INSIDE CLEAR ZONE.

MATCH LINE - SEE SHEET E-LT4



E-LT2



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| PLOT SCALE = *SCALE* | DRAWN - GJ | REVISED - |
| PLOT DATE = 8/11/2016 | CHECKED - HS | REVISED - |
| | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

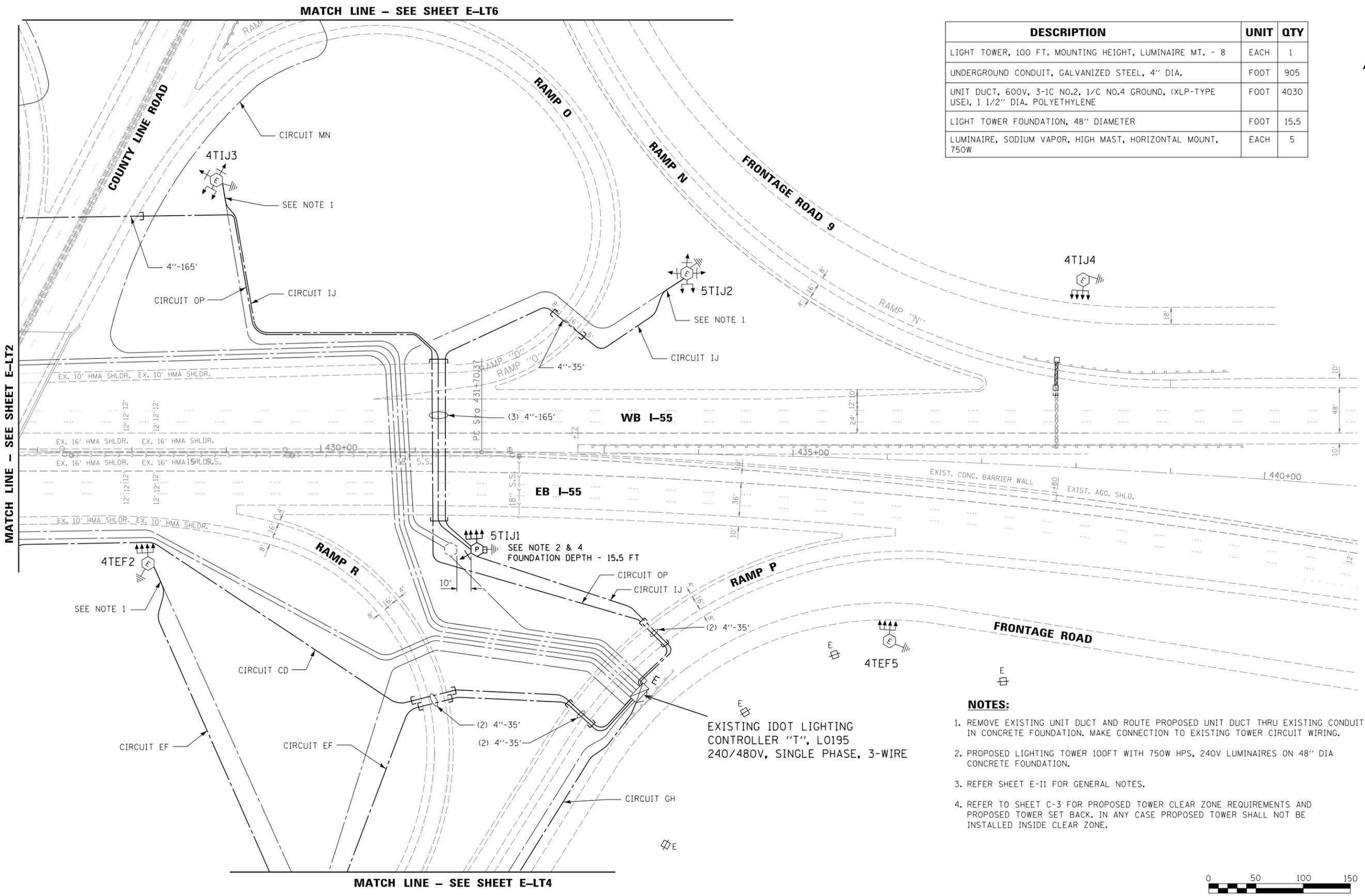
PROPOSED LIGHTING PLAN
I-55 / S. COUNTY LINE ROAD - SHEET 2 OF 7

SCALE: 1"=50' SHEET 2 OF 13 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 39 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



| DESCRIPTION | UNIT | QTY |
|---|------|------|
| LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8 | EACH | 1 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 905 |
| UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE | FOOT | 4030 |
| LIGHT TOWER FOUNDATION, 48" DIAMETER | FOOT | 15.5 |
| LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750W | EACH | 5 |



- NOTES:**
1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
 2. PROPOSED LIGHTING TOWER 100FT WITH 750W HPS, 240V LUMINAIRES ON 48" DIA CONCRETE FOUNDATION.
 3. REFER SHEET E-I1 FOR GENERAL NOTES.
 4. REFER TO SHEET C-3 FOR PROPOSED TOWER CLEAR ZONE REQUIREMENTS AND PROPOSED TOWER SET BACK. IN ANY CASE PROPOSED TOWER SHALL NOT BE INSTALLED INSIDE CLEAR ZONE.



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| PLOT SCALE = *SCALE* | DRAWN - GJ | REVISED - |
| PLOT DATE = 8/11/2016 | CHECKED - HS | REVISED - |
| | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
I-55 / S. COUNTY LINE ROAD - SHEET 3 OF 7

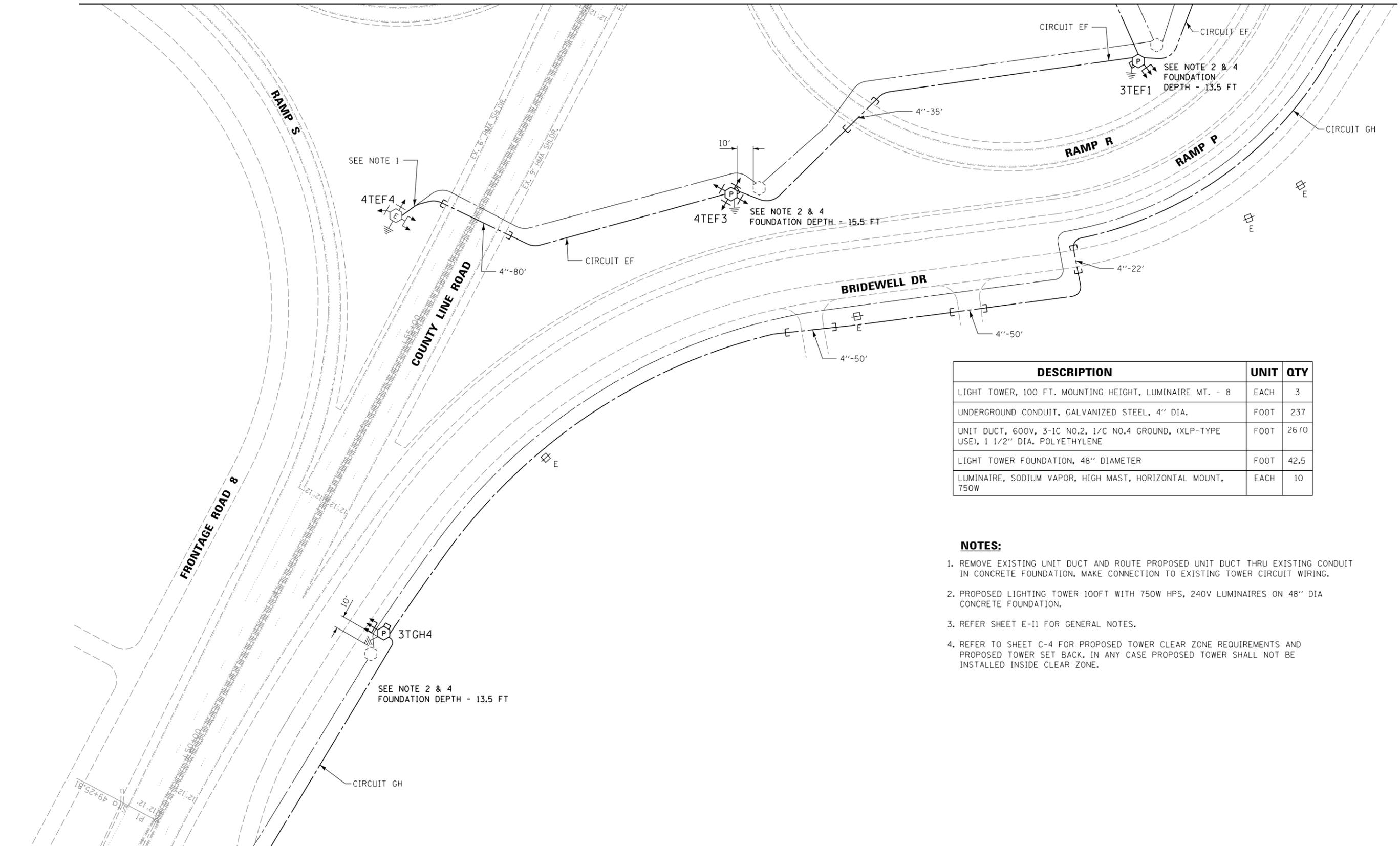
SCALE: 1"=50' SHEET 3 OF 13 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 40 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

E-LT3

MATCH LINE - SEE SHEET E-LT2

MATCH LINE - SEE SHEET E-LT3



| DESCRIPTION | UNIT | QTY |
|---|------|------|
| LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8 | EACH | 3 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 237 |
| UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE | FOOT | 2670 |
| LIGHT TOWER FOUNDATION, 48" DIAMETER | FOOT | 42.5 |
| LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750W | EACH | 10 |

NOTES:

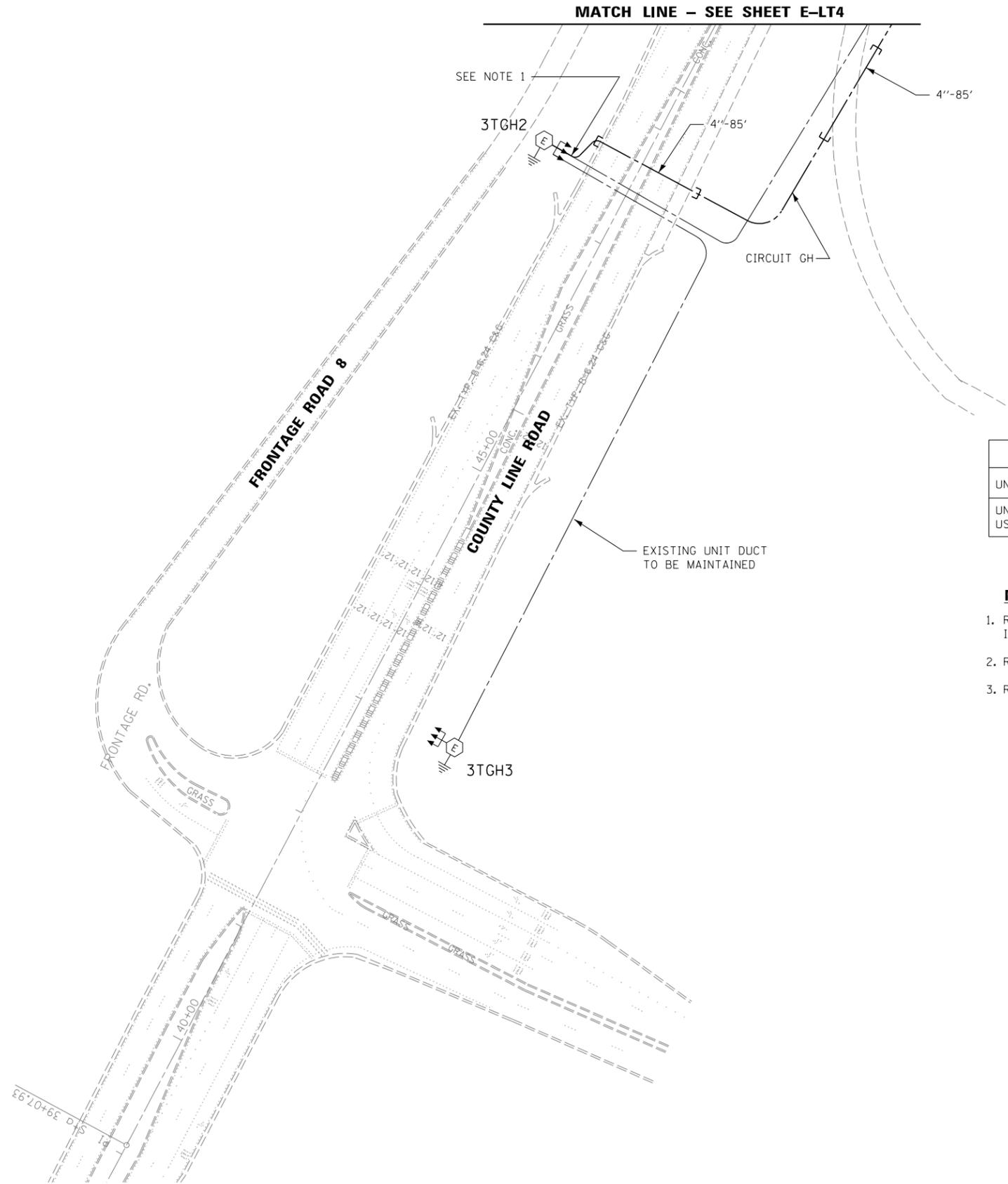
1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
2. PROPOSED LIGHTING TOWER 100FT WITH 750W HPS, 240V LUMINAIRES ON 48" DIA CONCRETE FOUNDATION.
3. REFER SHEET E-11 FOR GENERAL NOTES.
4. REFER TO SHEET C-4 FOR PROPOSED TOWER CLEAR ZONE REQUIREMENTS AND PROPOSED TOWER SET BACK. IN ANY CASE PROPOSED TOWER SHALL NOT BE INSTALLED INSIDE CLEAR ZONE.

MATCH LINE - SEE SHEET E-LT5



E-LT4

| | | | | | | | | |
|---|--|--|---|--|--|---------------------------------------|---|---------------------------|
| USER NAME = *USER* PLOT SCALE = *SCALE* PLOT DATE = 8/11/2016 | DESIGNED - HM DRAWN - GJ CHECKED - HS DATE - 08-11-2016 | REVISED - REVISED - REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PROPOSED LIGHTING PLAN I-55 /S. COUNTY LINE ROAD - SHEET 4 OF 7 | F.A. RTÉ. SECTION COUNTY COOK CONTRACT NO. 62A98 | TOTAL SHEETS 84 SHEET NO. 41 | SCALE: 1"=50' SHEET 4 OF 13 SHEETS STA. TO STA. | ILLINOIS FED. AID PROJECT |
|---|--|--|---|--|--|---------------------------------------|---|---------------------------|



| DESCRIPTION | UNIT | QTY |
|---|------|-----|
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 170 |
| UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE | FOOT | 340 |

NOTES:

1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
2. REFER SHEET E-11 FOR GENERAL NOTES.
3. REFER TO SHEET C-5 FOR TRENCH ROUTING.



E-LT5



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
I-55 /S. COUNTY LINE ROAD - SHEET 5 OF 7**

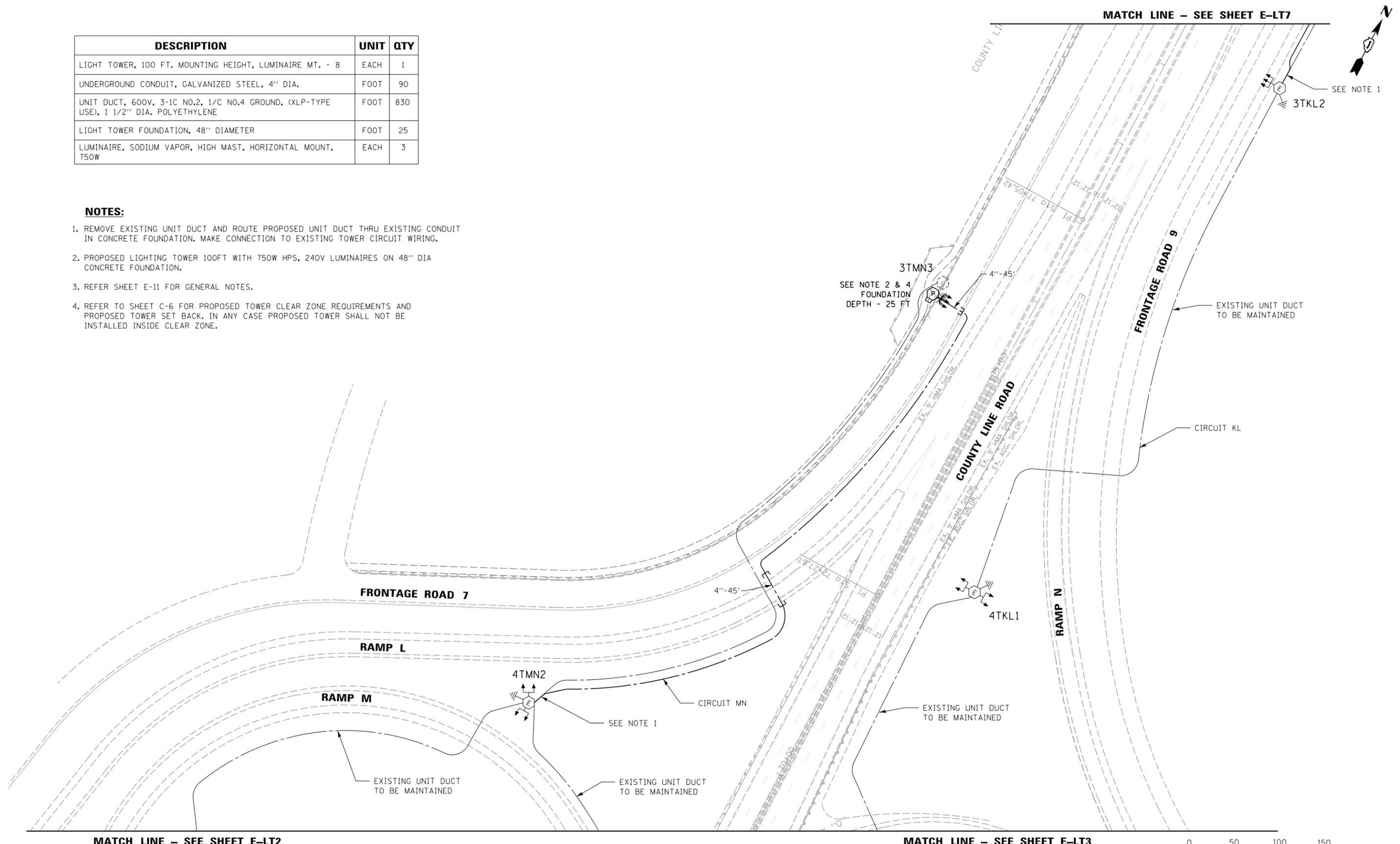
SCALE: 1"=50' SHEET 5 OF 13 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 42 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

| DESCRIPTION | UNIT | QTY |
|---|------|-----|
| LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8 | EACH | 1 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 90 |
| UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE | FOOT | 830 |
| LIGHT TOWER FOUNDATION, 48" DIAMETER | FOOT | 25 |
| LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750W | EACH | 3 |

NOTES:

1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
2. PROPOSED LIGHTING TOWER 100FT WITH 750W HPS, 240V LUMINAIRES ON 48" DIA CONCRETE FOUNDATION.
3. REFER SHEET E-II FOR GENERAL NOTES.
4. REFER TO SHEET C-6 FOR PROPOSED TOWER CLEAR ZONE REQUIREMENTS AND PROPOSED TOWER SET BACK. IN ANY CASE PROPOSED TOWER SHALL NOT BE INSTALLED INSIDE CLEAR ZONE.



MATCH LINE – SEE SHEET E-LT2

MATCH LINE – SEE SHEET E-LT3

MATCH LINE – SEE SHEET E-LT7



E-LT6



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
I-55 /S. COUNTY LINE ROAD – SHEET 6 OF 7

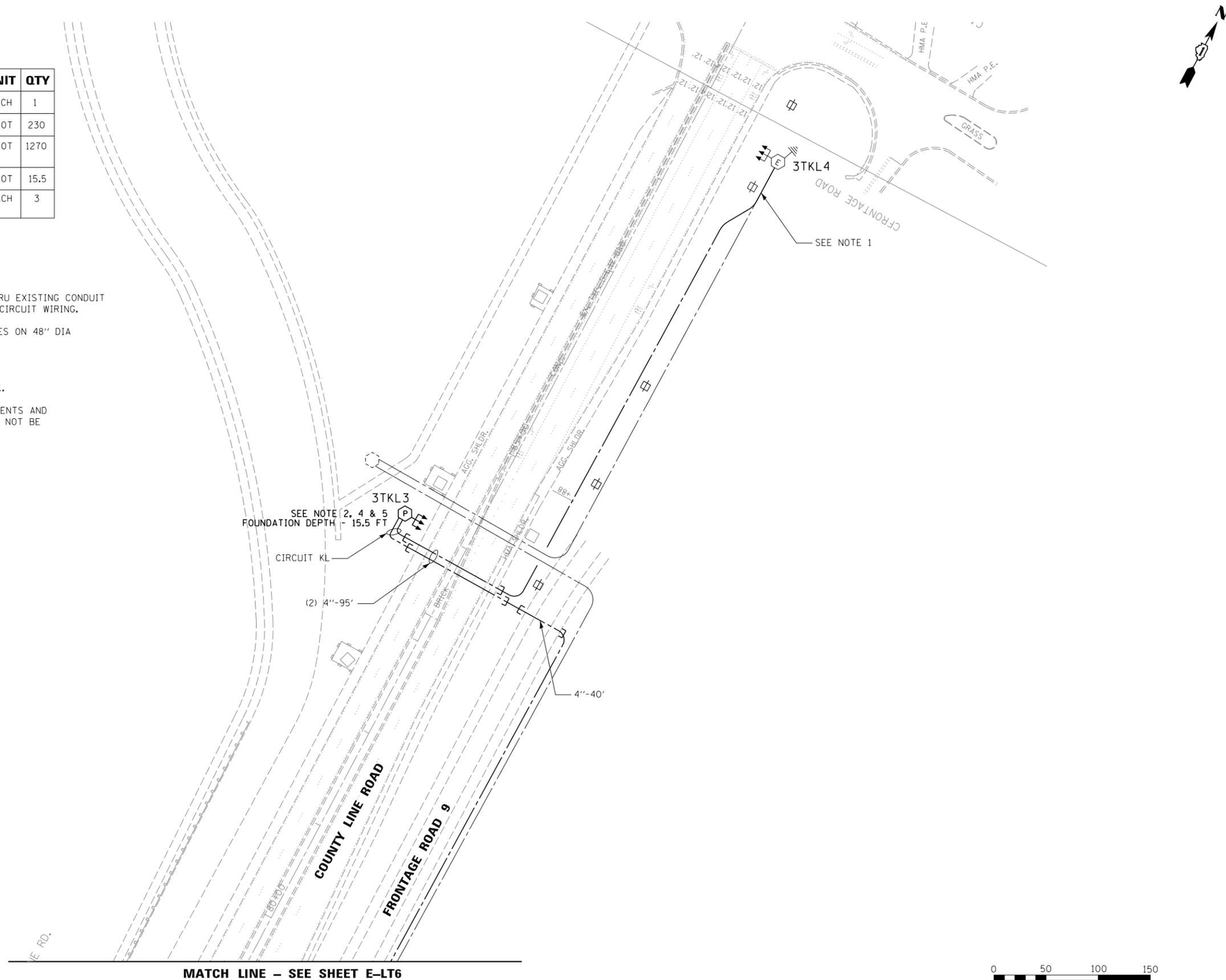
SCALE: 1"=50' SHEET 6 OF 13 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 43 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| DESCRIPTION | UNIT | QTY |
|---|------|------|
| LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8 | EACH | 1 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 230 |
| UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE | FOOT | 1270 |
| LIGHT TOWER FOUNDATION, 48" DIAMETER | FOOT | 15.5 |
| LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750W | EACH | 3 |

NOTES:

1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
2. PROPOSED LIGHTING TOWER 100FT WITH 750W HPS, 240V LUMINAIRES ON 48" DIA CONCRETE FOUNDATION.
3. REFER SHEET E-11 FOR GENERAL NOTES.
4. PROPOSED TOWER LOCATION SHALL BE EAST OF EXISTING SIDEWALK.
5. REFER TO SHEET C-7 FOR PROPOSED TOWER CLEAR ZONE REQUIREMENTS AND PROPOSED TOWER SET BACK. IN ANY CASE PROPOSED TOWER SHALL NOT BE INSTALLED INSIDE CLEAR ZONE.



MATCH LINE - SEE SHEET E-LT6



| | | |
|------------------------|-------------------|-----------|
| USER NAME = \$USER\$ | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

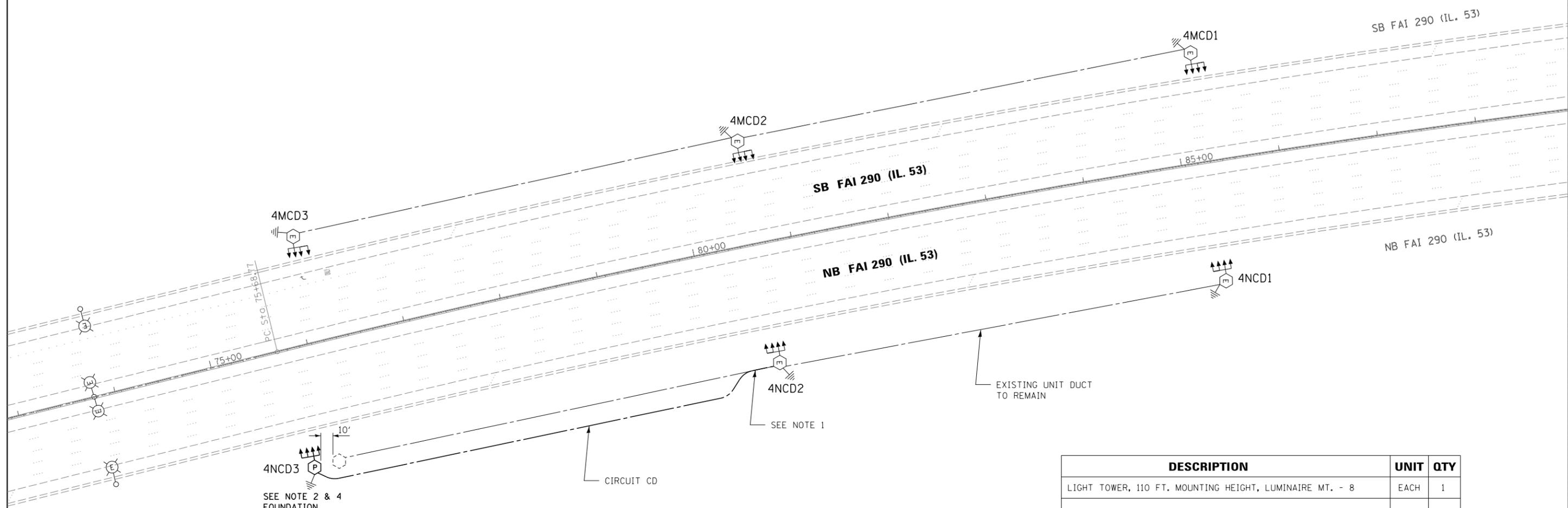
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
I-55 /S. COUNTY LINE ROAD - SHEET 7 OF 7

SCALE: 1"=50' SHEET 7 OF 13 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 44 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

E-LT7



SEE NOTE 2 & 4
FOUNDATION
DEPTH - 14 FT

| DESCRIPTION | UNIT | QTY |
|---|------|-----|
| LIGHT TOWER, 110 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8 | EACH | 1 |
| UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE | FOOT | 480 |
| LIGHT TOWER FOUNDATION, 48" DIAMETER | FOOT | 14 |
| LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 400W | EACH | 4 |

NOTES:

1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
2. PROPOSED LIGHTING TOWER 110FT WITH EXISTING 400W HPS, 240V LUMINAIRES ON 48" DIA CONCRETE FOUNDATION.
3. REFER SHEET E-11 FOR GENERAL NOTES.
4. REFER TO SHEET C-8 FOR PROPOSED TOWER CLEAR ZONE REQUIREMENTS AND PROPOSED TOWER SET BACK. IN ANY CASE PROPOSED TOWER SHALL NOT BE INSTALLED INSIDE CLEAR ZONE.



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

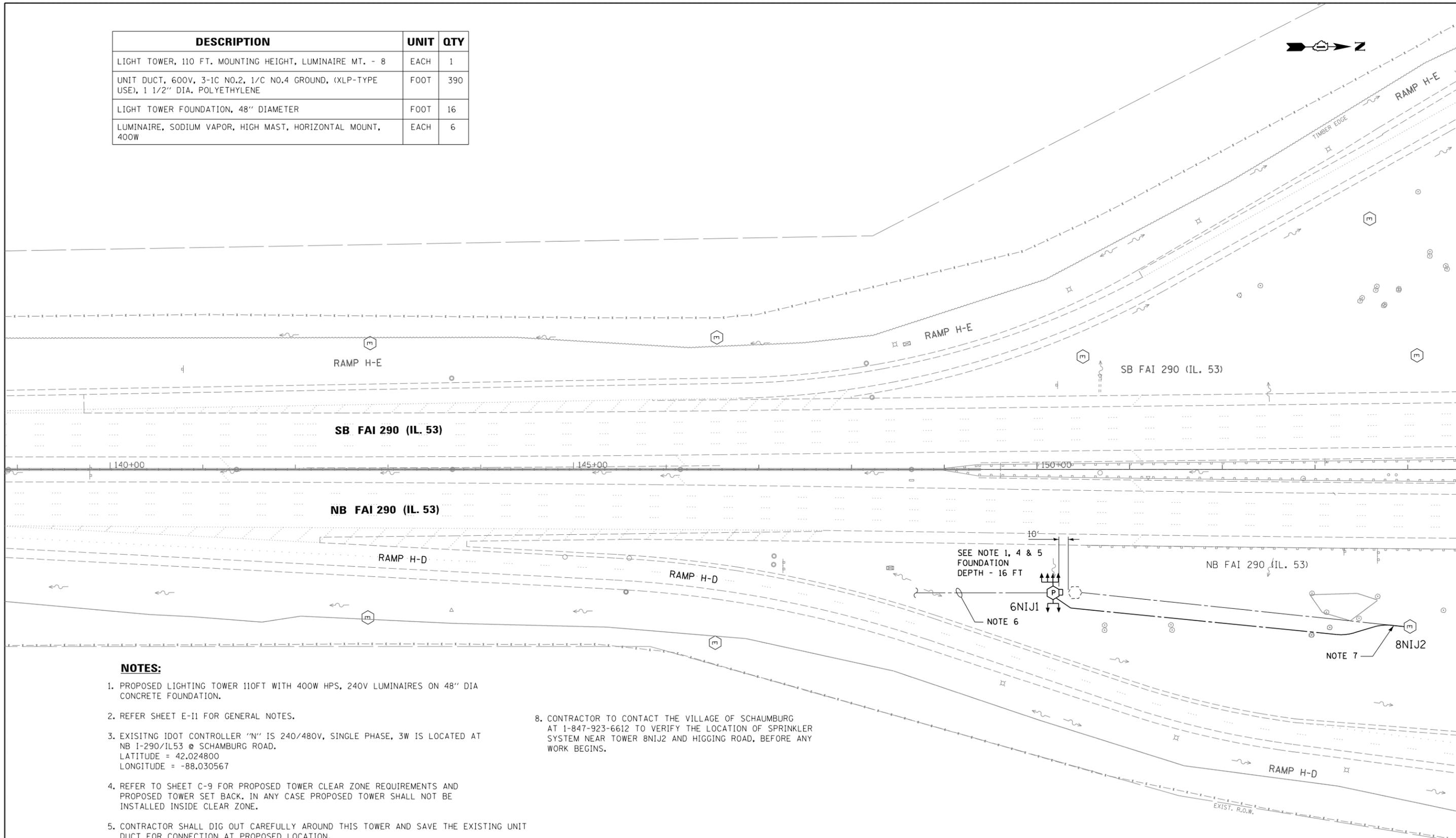
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
I-290 / IL 53 AT SOUTH OF IL 72 - SHEET 1 OF 2

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | | 84 | 45 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

E-LT8

| DESCRIPTION | UNIT | QTY |
|---|------|-----|
| LIGHT TOWER, 110 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8 | EACH | 1 |
| UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE | FOOT | 390 |
| LIGHT TOWER FOUNDATION, 48" DIAMETER | FOOT | 16 |
| LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 400W | EACH | 6 |



NOTES:

- PROPOSED LIGHTING TOWER 110FT WITH 400W HPS, 240V LUMINAIRES ON 48" DIA CONCRETE FOUNDATION.
- REFER SHEET E-11 FOR GENERAL NOTES.
- EXISTING IDOT CONTROLLER "N" IS 240/480V, SINGLE PHASE, 3W IS LOCATED AT NB I-290/IL53 @ SCHAMBURG ROAD.
LATITUDE = 42.024800
LONGITUDE = -88.030567
- REFER TO SHEET C-9 FOR PROPOSED TOWER CLEAR ZONE REQUIREMENTS AND PROPOSED TOWER SET BACK. IN ANY CASE PROPOSED TOWER SHALL NOT BE INSTALLED INSIDE CLEAR ZONE.
- CONTRACTOR SHALL DIG OUT CAREFULLY AROUND THIS TOWER AND SAVE THE EXISTING UNIT DUCT FOR CONNECTION AT PROPOSED LOCATION.
- USE EXISTING UNIT DUCT COMING FROM THE LIGHTING CONTROLLER TO FEED THE PROPOSED LIGHT TOWER. PROPOSED TOWER LOCATION SHOULD BE PLACED NEAR THE EXISTING UNIT DUCT PATH. EXCAVATE THE AREA AND OBTAIN LOCATE TO FIND UNIT DUCT PATH.
- REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
- CONTRACTOR TO CONTACT THE VILLAGE OF SCHAMBURG AT 1-847-923-6612 TO VERIFY THE LOCATION OF SPRINKLER SYSTEM NEAR TOWER 8NIJ2 AND HIGGING ROAD, BEFORE ANY WORK BEGINS.



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| PLOT SCALE = *SCALE* | DRAWN - GJ | REVISED - |
| PLOT DATE = 8/11/2016 | CHECKED - HS | REVISED - |
| | DATE - 08-11-2016 | REVISED - |

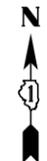
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
I-290 / IL 53 AT SOUTH OF IL 72 - SHEET 2 OF 2**

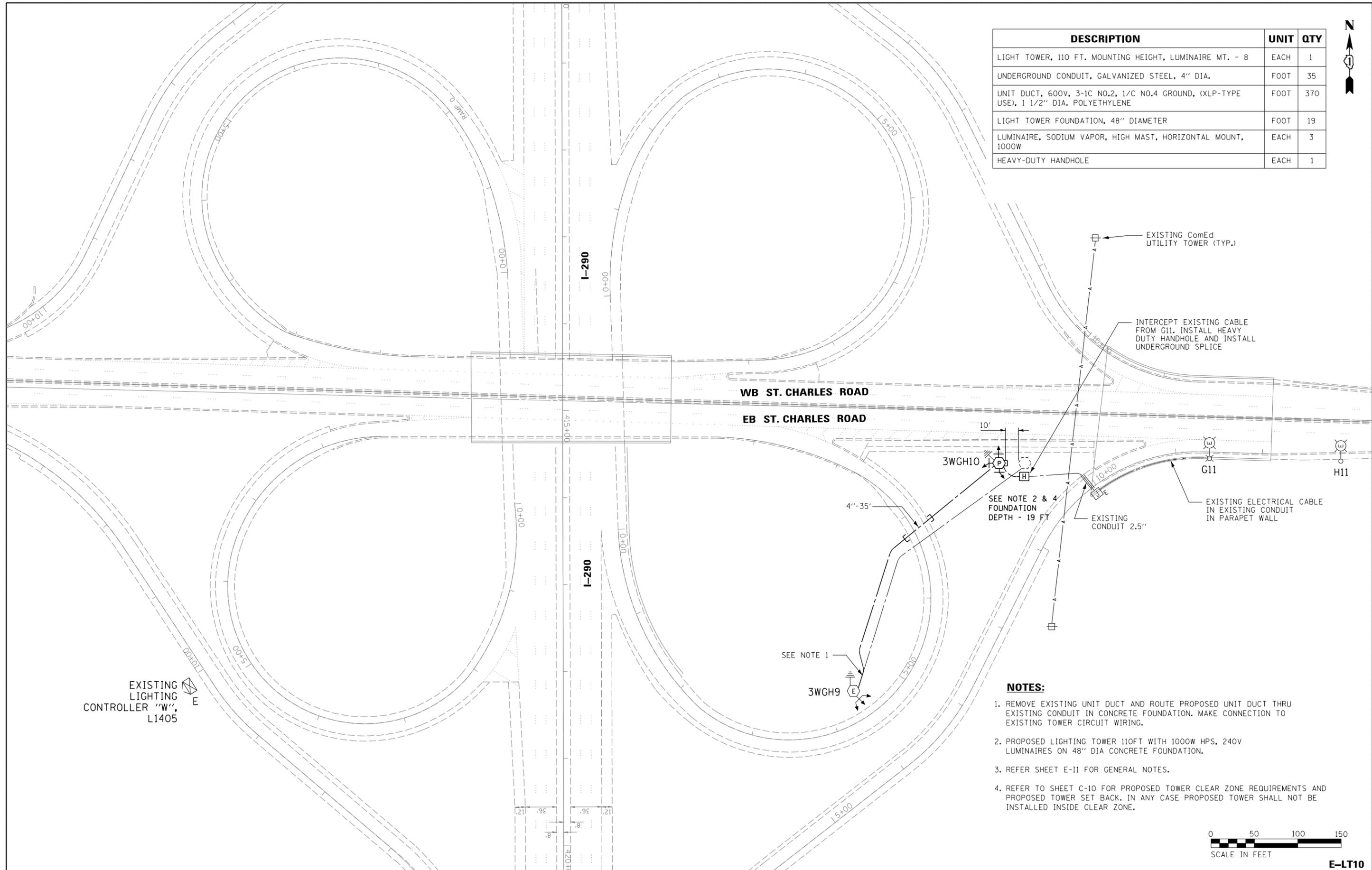
SCALE: 1"=50' SHEET 9 OF 13 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 46 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

E-LT9



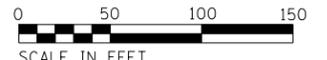
| DESCRIPTION | UNIT | QTY |
|---|------|-----|
| LIGHT TOWER, 110 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8 | EACH | 1 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 35 |
| UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE | FOOT | 370 |
| LIGHT TOWER FOUNDATION, 48" DIAMETER | FOOT | 19 |
| LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 1000W | EACH | 3 |
| HEAVY-DUTY HANDHOLE | EACH | 1 |



EXISTING LIGHTING CONTROLLER "W", L1405

NOTES:

1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
2. PROPOSED LIGHTING TOWER 110FT WITH 1000W HPS, 240V LUMINAIRES ON 48" DIA CONCRETE FOUNDATION.
3. REFER SHEET E-11 FOR GENERAL NOTES.
4. REFER TO SHEET C-10 FOR PROPOSED TOWER CLEAR ZONE REQUIREMENTS AND PROPOSED TOWER SET BACK. IN ANY CASE PROPOSED TOWER SHALL NOT BE INSTALLED INSIDE CLEAR ZONE.



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| DRAWN - GJ | REVISED - | |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
1-290 / ST. CHARLES ROAD - SHEET 1 OF 1

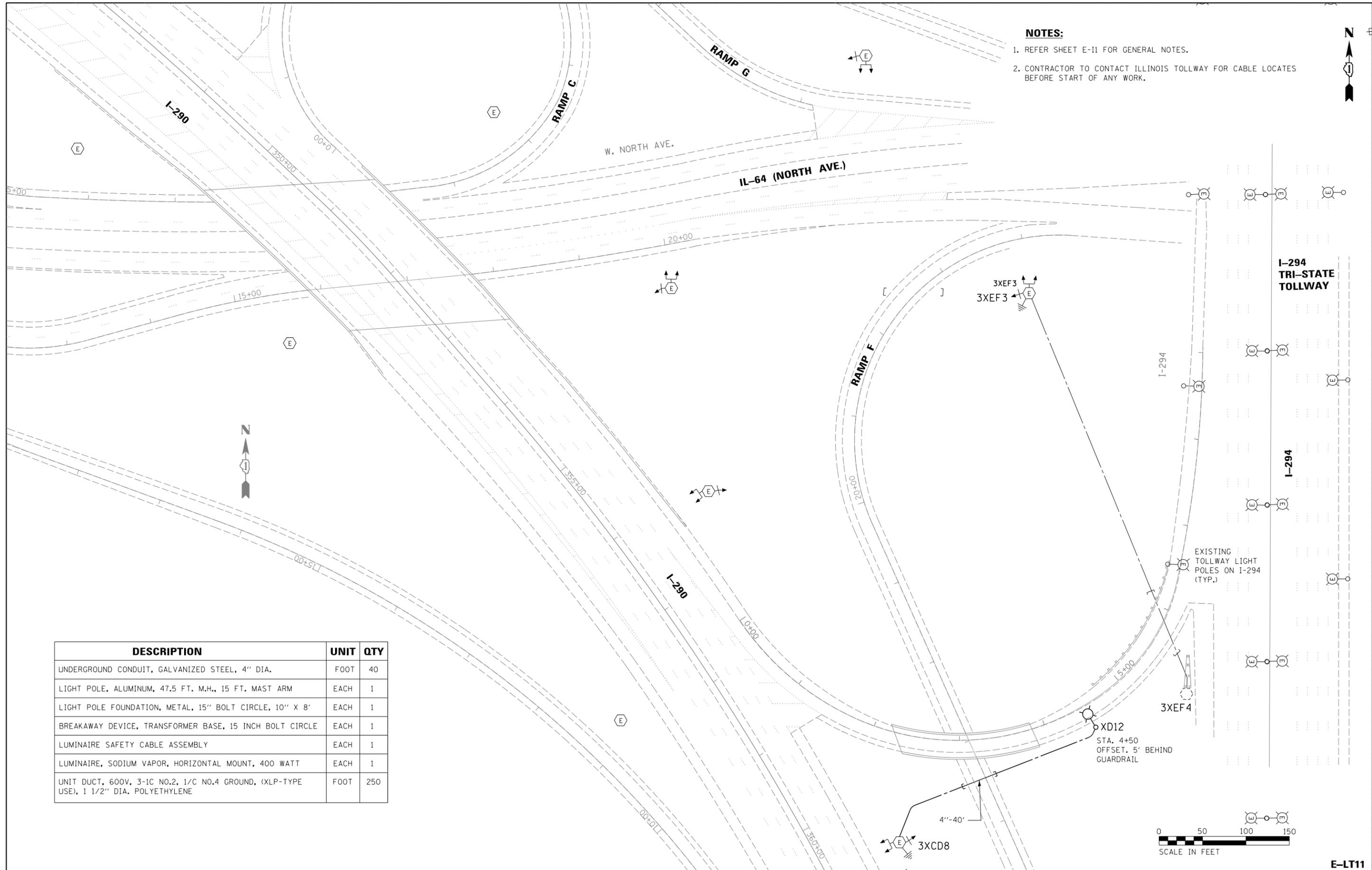
SCALE: 1"=50' SHEET 10 OF 13 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | DUPAGE | 84 | 47 |
| CONTRACT NO. 62A98 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

E-LT10

NOTES:

1. REFER SHEET E-II FOR GENERAL NOTES.
2. CONTRACTOR TO CONTACT ILLINOIS TOLLWAY FOR CABLE LOCATES BEFORE START OF ANY WORK.



| DESCRIPTION | UNIT | QTY |
|---|------|-----|
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 40 |
| LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM | EACH | 1 |
| LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8' | EACH | 1 |
| BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE | EACH | 1 |
| LUMINAIRE SAFETY CABLE ASSEMBLY | EACH | 1 |
| LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT | EACH | 1 |
| UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE | FOOT | 250 |



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| PLOT SCALE = *SCALE* | DRAWN - GJ | REVISED - |
| PLOT DATE = 8/11/2016 | CHECKED - HS | REVISED - |
| | DATE - 08-11-2016 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
1-290 / IL-64 (NORTH AVE.) - SHEET 1 OF 1**

SCALE: 1"=50' SHEET 11 OF 13 SHEETS STA. TO STA.

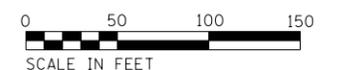
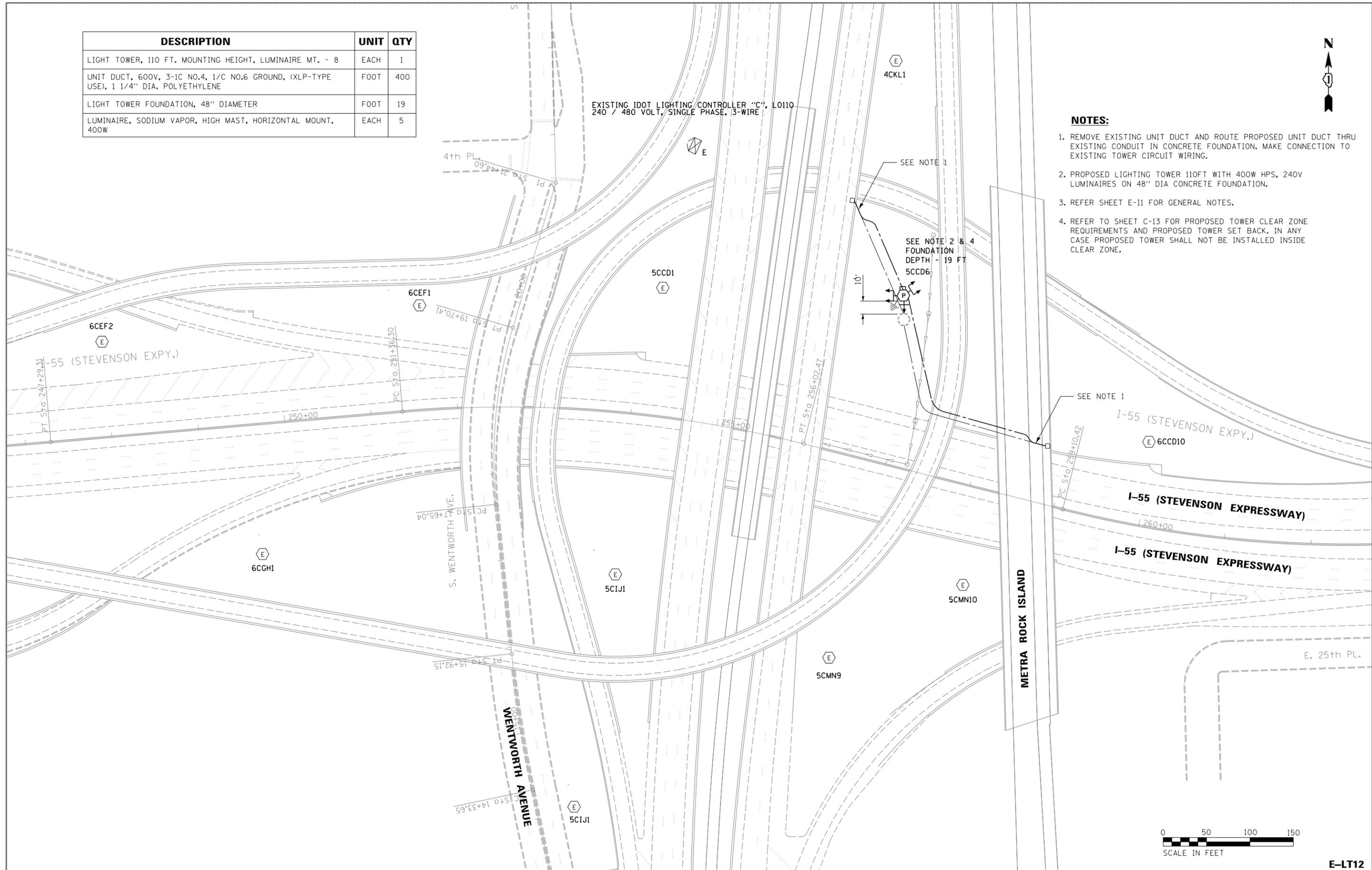
| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | DUPAGE | 84 | 48 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

E-LT11

| DESCRIPTION | UNIT | QTY |
|---|------|-----|
| LIGHT TOWER, 110 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8 | EACH | 1 |
| UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE | FOOT | 400 |
| LIGHT TOWER FOUNDATION, 48" DIAMETER | FOOT | 19 |
| LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 400W | EACH | 5 |



- NOTES:**
1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
 2. PROPOSED LIGHTING TOWER 110FT WITH 400W HPS, 240V LUMINAIRES ON 48" DIA CONCRETE FOUNDATION.
 3. REFER SHEET E-11 FOR GENERAL NOTES.
 4. REFER TO SHEET C-13 FOR PROPOSED TOWER CLEAR ZONE REQUIREMENTS AND PROPOSED TOWER SET BACK. IN ANY CASE PROPOSED TOWER SHALL NOT BE INSTALLED INSIDE CLEAR ZONE.



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| PLOT SCALE = *SCALE* | DRAWN - GJ | REVISED - |
| PLOT DATE = 8/11/2016 | CHECKED - HS | REVISED - |
| | DATE - 08-11-2016 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
I-55 / WENTWORTH AVE. - SHEET 1 OF 1**

SCALE: 1"=50' SHEET 12 OF 13 SHEETS STA. TO STA.

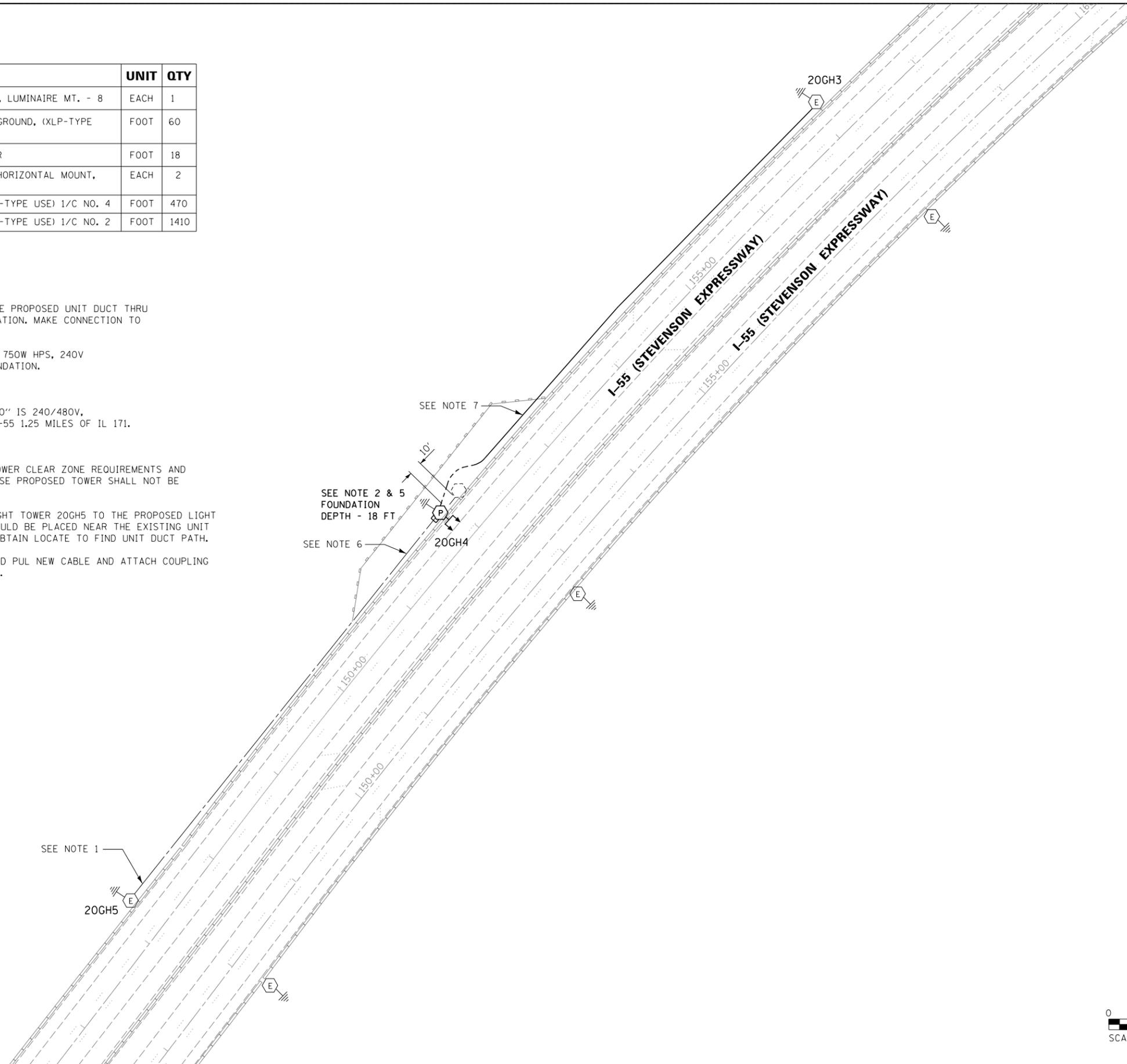
| | | | | | |
|---------------------------|--|---------|--------------------|--------------|----|
| F.A. RTE. | | SECTION | COUNTY | TOTAL SHEETS | |
| | | | | 84 | 49 |
| 2015-039L | | COOK | CONTRACT NO. 62A98 | | |
| ILLINOIS FED. AID PROJECT | | | | | |

E-LT12

| DESCRIPTION | UNIT | QTY |
|---|------|------|
| LIGHT TOWER, 130 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8 | EACH | 1 |
| UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE | FOOT | 60 |
| LIGHT TOWER FOUNDATION, 54" DIAMETER | FOOT | 18 |
| LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750W | EACH | 2 |
| ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4 | FOOT | 470 |
| ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2 | FOOT | 1410 |

NOTES:

- REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
- PROPOSED LIGHTING TOWER 130FT WITH 750W HPS, 240V LUMINAIRES ON 48" DIA CONCRETE FOUNDATION.
- REFER SHEET E-II FOR GENERAL NOTES.
- EXISTING IDOT LIGHTING CONTROLLER "O" IS 240/480V, SINGLE PHASE, 3W IS LOCATED AT IB I-55 1.25 MILES OF IL 171. LATITUDE = 41.782723 LONGITUDE = -87.831567
- REFER TO SHEET C-4 FOR PROPOSED TOWER CLEAR ZONE REQUIREMENTS AND PROPOSED TOWER SET BACK. IN ANY CASE PROPOSED TOWER SHALL NOT BE INSTALLED INSIDE CLEAR ZONE.
- USE EXISTING UNIT DUCT FROM THE LIGHT TOWER 20GH5 TO THE PROPOSED LIGHT TOWER. PROPOSED TOWER LOCATION SHOULD BE PLACED NEAR THE EXISTING UNIT DUCT PATH. EXCAVATE THE AREA AND OBTAIN LOCATE TO FIND UNIT DUCT PATH.
- REMOVE EXISTING CABLE FROM DUCT AND PUL NEW CABLE AND ATTACH COUPLING BETWEEN EXISTING AND PROPOSED DUCT.



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
I-55 / 85TH AVE. (8500 W) - SHEET 1 OF 1
SCALE: 1"=50' SHEET 13 OF 13 SHEETS STA. TO STA.

| | | | | |
|--------------------|-----------|--------|---------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | COOK | 84 | 50 |
| CONTRACT NO. 62A98 | | | ILLINOIS FED. AID PROJECT | |

E-LT13



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation District

SOIL BORING LOG

Page 1 of 1

Date 9/15/15

ROUTE Various DESCRIPTION Interstate Route 55 @ County Line Rd LOGGED BY M. Esposito

SECTION _____ LOCATION NW quarter of, SEC. 30, TWP. 38N, RNG. 12E, 3rd PM,

Latitude 41°45'21.78", Longitude 87°54'49.392"

COUNTY Cook DRILLING METHOD HSA HAMMER TYPE Automatic

STRUCT. NO. 3TEF1
Station _____

BORING NO. 3TEF1

Station _____
Offset 7.0 ft northeast
Ground Surface Elev. 98.35 ft

| DEPTH H S | B L O W S | U C S Qu | M O I S T (%) | SOIL | | | |
|-----------------|-----------------------|-------------------|------------------------------|---|--------------------------------|--------------------|--------------------------------|
| | | | | Surface Water Elev. <u>N/A</u> ft | Stream Bed Elev. <u>N/A</u> ft | Groundwater Elev.: | First Encounter <u>80.8</u> ft |
| 0 | | | 24 | Brown SILTY CLAY (topsoil) | | | |
| 3 | | | | Very Stiff Gray CLAY (continued) | | | |
| 4 | | 2.8 | 14 | | | | |
| 6 | | B | | | | | |
| 96.35 | | | | Hard Brown CLAY | | | |
| 3 | | | 19 | | | | |
| 4 | | 2.6 | | Dense to Very Dense Gray GRAVEL | | | |
| 6 | | B | | | | | |
| -5 | | | | | | | |
| 3 | | | 18 | | | | |
| 6 | | 4.5 | | | | | |
| 6 | | B | | | | | |
| 50/6" | | | 10 | | | | |
| 3 | | | | | | | |
| 5 | | 4.5 | 17 | | | | |
| 7 | | B | | | | | |
| 69.35 | | | | Benchmark used is northeast bolt of existing tower. Assumed elevation = 100.0' End of Boring | | | |
| -10 | | | | | | | |
| 4 | | | 18 | | | | |
| 7 | | 4.8 | | | | | |
| 9 | | B | | | | | |
| 86.35 | | | | Very Stiff Gray CLAY | | | |
| 4 | | | 15 | | | | |
| 6 | | 2.8 | | | | | |
| 7 | | B | | | | | |
| -15 | | | | | | | |
| 2 | | | 13 | | | | |
| 4 | | 2.2 | | | | | |
| 6 | | B | | | | | |
| -17 | | | | | | | |
| 2 | | | 14 | 2" Coarse sand seam @ 17.6' | | | |
| 4 | | 1.9 | | | | | |
| 6 | | B | | | | | |
| -20 | | | | | | | |

SOIL BORING HIGH MAST LIGHT TOWERS, VARIOUS LOCATIONS.GPJ IL_DOT.GDT 9/16/15

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation District

SOIL BORING LOG

Page 1 of 1

Date 9/23/15

ROUTE Various DESCRIPTION Interstate Route 55 @ County Line Rd LOGGED BY R. Claussen

SECTION _____ LOCATION NE quarter of, SEC. 25, TWP. 38N, RNG. 11E, 3rd PM,

Latitude 41°45'9.612", Longitude 87°55'27.156"

COUNTY Cook DRILLING METHOD HSA HAMMER TYPE Automatic

STRUCT. NO. 4TAB3
Station _____

BORING NO. 4TAB3

Station _____
Offset 15.0 ft North
Ground Surface Elev. 99.40 ft

| DEPTH H S | B L O W S | U C S Qu | M O I S T (%) | SOIL | | | |
|-----------------|-----------------------|-------------------|------------------------------|---|--------------------------------|--------------------|--------------------------------|
| | | | | Surface Water Elev. <u>N/A</u> ft | Stream Bed Elev. <u>N/A</u> ft | Groundwater Elev.: | First Encounter <u>94.4</u> ft |
| 0 | | | 16 | Black SILTY CLAY LOAM (topsoil) | | | |
| 3 | | 2.1 | | Very Stiff Gray SILTY CLAY (continued) | | | |
| 5 | | B | | | | | |
| 97.40 | | | | Soft Brown & Gray SILTY CLAY with GRAVEL | | | |
| 1 | | < 0.5 | 25 | | | | |
| 2 | | P | | | | | |
| -5 | | | | | | | |
| 1 | | < 0.5 | 21 | | | | |
| 3 | | P | | pushed cobble | | | |
| 5 | | 3.3 | 16 | | | | |
| 5 | | B | | | | | |
| 91.90 | | | | Soft Dark Gray CLAY and GRAVEL | | | |
| 1 | | < 0.5 | 23 | | | | |
| 1 | | P | | | | | |
| 1 | | | | | | | |
| 89.40 | | | | Soft to Medium Stiff Gray SILTY CLAY LOAM | | | |
| 0 | | 0.5 | 57 | | | | |
| 0 | | B | | | | | |
| 0 | | | | | | | |
| 2 | | 0.8 | 24 | | | | |
| 4 | | B | | | | | |
| 84.40 | | | | Very Stiff Gray SILTY CLAY | | | |
| 2 | | | 21 | | | | |
| 2 | | 2.1 | | | | | |
| 5 | | B | | | | | |
| -35 | | | | | | | |
| 2 | | | 21 | | | | |
| 10 | | 1.4 | | | | | |
| 8 | | B | | | | | |
| -20 | | | | | | | |

SOIL BORING HIGH MAST LIGHT TOWERS, VARIOUS LOCATIONS.GPJ IL_DOT.GDT 9/24/15

Note: Benchmark is the east bolt of existing tower. Assumed elevation = 100.0'
End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| DRAWN - GJ | REVISED - | |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NONE SHEET 3 OF 8 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | | 84 | 53 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

SBL-3



SOIL BORING LOG

Date 9/16/15

ROUTE Various DESCRIPTION Interstate Route 55 @ County Line Rd. LOGGED BY M. Esposito

SECTION LOCATION NE quarter of, SEC. 25, TWP. 38N, RNG. 11E, 3rd PM,
Latitude 41°45'20.556", Longitude 87°54'58.032"

COUNTY Du Page DRILLING METHOD HSA HAMMER TYPE Automatic

| STRUCT. NO. | STATION | DEPTH (ft) | BLOW (6") | UCS (tsf) | MOIST (%) | Surface Water Elev. | Stream Bed Elev. | Groundwater Elev.: | First Encounter | Upon Completion | After | Hrs. | DEPTH (ft) | BLOW (6") | UCS (tsf) | MOIST (%) |
|-------------|------------------|------------|-----------|-----------|-----------|---------------------|------------------|--------------------|-----------------|-----------------|-------|------|------------|-----------|-----------|-----------|
| 4TCD1 | | | | | | N/A | N/A | | Dry | Dry | N/A | | | | | |
| 4TCD1 | 8.0 ft Northwest | 99.70 | | | | | | | | | | | | | | |
| | | 98.20 | | | 16 | | | | | | | | | | | |
| | | | 5 | | | | | | | | | | | | | |
| | | | 6 | 3.9 | 17 | | | | | | | | | | | |
| | | | 6 | B | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | | |
| | | | 3 | 2.7 | 17 | | | | | | | | | | | |
| | | | 6 | B | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | | | |
| | | | 5 | 2.8 | 17 | | | | | | | | | | | |
| | | | 7 | B | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | 6 | | | | | | | | | | | | | |
| | | | 8 | 3.0 | 14 | | | | | | | | | | | |
| | | | 11 | B | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | | | |
| | | | 3 | 1.3 | 13 | | | | | | | | | | | |
| | | | 4 | P | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | | |
| | | | 5 | 1.2 | 12 | | | | | | | | | | | |
| | | | 5 | B | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | | | |
| | | | 5 | 1.9 | 14 | | | | | | | | | | | |
| | | | | 50/3" | B | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 9/22/15

ROUTE Various DESCRIPTION Interstate Route 55 @ County Line Rd. LOGGED BY R. Claussen

SECTION LOCATION NE quarter of, SEC. 25, TWP. 38N, RNG. 11E, 3rd PM,
Latitude 41°45'35.568", Longitude 87°54'58.536"

COUNTY Cook DRILLING METHOD HSA HAMMER TYPE Automatic

| STRUCT. NO. | STATION | DEPTH (ft) | BLOW (6") | UCS (tsf) | MOIST (%) | Surface Water Elev. | Stream Bed Elev. | Groundwater Elev.: | First Encounter | Upon Completion | After | Hrs. | DEPTH (ft) | BLOW (6") | UCS (tsf) | MOIST (%) |
|-------------|--------------|------------|-----------|-----------|-----------|---------------------|------------------|--------------------|-----------------|-----------------|-------|------|------------|-----------|-----------|-----------|
| 3TMN3 | | | | | | N/A | N/A | | | | | | | | | |
| 3TMN3 | 13.0 ft East | 100.00 | | | | | | | | | | | | | | |
| | | 99.20 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | 5 | | | | | | | | | | | | | |
| | | | 7 | 11.1 | 13 | | | | | | | | | | | |
| | | | 7 | S @ 15% | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | | | |
| | | | 3 | 2.5 | 19 | | | | | | | | | | | |
| | | | 3 | B | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | 4 | | 9 | | | | | | | | | | | |
| | | | 10 | | | | | | | | | | | | | |
| | | | 8 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | 10 | | 11 | | | | | | | | | | | |
| | | | 5 | | | | | | | | | | | | | |
| | | | 6 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | 4 | | 11 | | | | | | | | | | | |
| | | | 1 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | 4 | | | | | | | | | | | | | |
| | | | 2 | | 18 | | | | | | | | | | | |
| | | | 1 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | 0 | | | | | | | | | | | | | |
| | | | 0 | 0.7 | 86 | | | | | | | | | | | |
| | | | 2 | B | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| DRAWN - GJ | REVISED - | |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NONE SHEET 4 OF 8 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | | 84 | 54 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |



SOIL BORING LOG

Date 9/28/15

ROUTE Various DESCRIPTION Interstate Route 55 @ County Line Rd LOGGED BY R. Claussen

SECTION LOCATION NW quarter of, SEC. 30, TWP. 38N, RNG. 12E, 3rd PM, Latitude 41°45'12.132", Longitude 87°54'55.152"

COUNTY Cook DRILLING METHOD HSA HAMMER TYPE Automatic

STRUCT. NO. 3TGH4
 Station
 BORING NO. 3TGH4
 Station
 Offset 13.0 ft West
 Ground Surface Elev. 99.39 ft

| DEPTH (ft) | SOIL DESCRIPTION | DEPTH (ft) | SOIL DESCRIPTION |
|------------|--|------------|--|
| 0 - 7 | Crushed Aggregate (fill) | 0 - 7 | Very Stiff Gray SILTY CLAY, trace gravel (continued) Encountered a cobble @ 20' |
| 7 - 8 | | 7 - 8 | |
| 8 - 10 | Very Stiff Brown & Gray SILTY CLAY, trace gravel | 10 - 11 | Pushed a Cobble |
| 10 - 11 | | 11 - 12 | |
| 11 - 12 | | 12 - 13 | |
| 12 - 13 | | 13 - 14 | |
| 13 - 14 | | 14 - 15 | |
| 14 - 15 | | 15 - 16 | |
| 15 - 16 | | 16 - 17 | |
| 16 - 17 | | 17 - 18 | |
| 17 - 18 | | 18 - 19 | |
| 18 - 19 | | 19 - 20 | |
| 19 - 20 | | 20 - 21 | |
| 20 - 21 | | 21 - 22 | |
| 21 - 22 | | 22 - 23 | |
| 22 - 23 | | 23 - 24 | |
| 23 - 24 | | 24 - 25 | |
| 24 - 25 | | 25 - 26 | |
| 25 - 26 | | 26 - 27 | |
| 26 - 27 | | 27 - 28 | |
| 27 - 28 | | 28 - 29 | |
| 28 - 29 | | 29 - 30 | |
| 29 - 30 | | 30 - 31 | |
| 30 - 31 | | 31 - 32 | |
| 31 - 32 | | 32 - 33 | |
| 32 - 33 | | 33 - 34 | |
| 33 - 34 | | 34 - 35 | |
| 34 - 35 | | 35 - 36 | |
| 35 - 36 | | 36 - 37 | |
| 36 - 37 | | 37 - 38 | |
| 37 - 38 | | 38 - 39 | |
| 38 - 39 | | 39 - 40 | |
| 39 - 40 | | 40 - 41 | |
| 40 - 41 | | 41 - 42 | |
| 41 - 42 | | 42 - 43 | |
| 42 - 43 | | 43 - 44 | |
| 43 - 44 | | 44 - 45 | |
| 44 - 45 | | 45 - 46 | |
| 45 - 46 | | 46 - 47 | |
| 46 - 47 | | 47 - 48 | |
| 47 - 48 | | 48 - 49 | |
| 48 - 49 | | 49 - 50 | |
| 49 - 50 | | 50 - 51 | |
| 50 - 51 | | 51 - 52 | |
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| 76 - 77 | | 77 - 78 | |
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| 83 - 84 | | 84 - 85 | |
| 84 - 85 | | 85 - 86 | |
| 85 - 86 | | 86 - 87 | |
| 86 - 87 | | 87 - 88 | |
| 87 - 88 | | 88 - 89 | |
| 88 - 89 | | 89 - 90 | |
| 89 - 90 | | 90 - 91 | |
| 90 - 91 | | 91 - 92 | |
| 91 - 92 | | 92 - 93 | |
| 92 - 93 | | 93 - 94 | |
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| 116 - 117 | | 117 - 118 | |
| 117 - 118 | | 118 - 119 | |
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| 122 - 123 | | 123 - 124 | |
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| 134 - 135 | | 135 - 136 | |
| 135 - 136 | | 136 - 137 | |
| 136 - 137 | | 137 - 138 | |
| 137 - 138 | | 138 - 139 | |
| 138 - 139 | | 139 - 140 | |
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| 150 - 151 | | 151 - 152 | |
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| 162 - 163 | | 163 - 164 | |
| 163 - 164 | | 164 - 165 | |
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| 166 - 167 | | 167 - 168 | |
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| 168 - 169 | | 169 - 170 | |
| 169 - 170 | | 170 - 171 | |
| 170 - 171 | | 171 - 172 | |
| 171 - 172 | | 172 - 173 | |
| 172 - 173 | | 173 - 174 | |
| 173 - 174 | | 174 - 175 | |
| 174 - 175 | | 175 - 176 | |
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| 176 - 177 | | 177 - 178 | |
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| 261 - 262 | | 262 - 263 | |
| 262 - 263 | | 263 - 264 | |
| 263 - 264 | | 264 - 265 | |
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| 265 - 266 | | 266 - 267 | |
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| 267 - 268 | | 268 - 269 | |
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| 269 - 270 | | 270 - 271 | |
| 270 - 271 | | 271 - 272 | |
| 271 - 272 | | 272 - 273 | |
| 272 - 273 | | 273 - 274 | |
| 273 - 274 | | 274 - 275 | |
| 274 - 275 | | 275 - 276 | |
| 275 - 276 | | 276 - 277 | |
| 276 - 277 | | 277 | |



SOIL BORING LOG

Date 9/19/15

ROUTE Various DESCRIPTION Interstate Route 55 @ County Line Road LOGGED BY M. Esposito

SECTION LOCATION NE quarter of, SEC. 25, TWP. 38N, RNG. 11E, 3rd PM, Latitude 41°45'11.232", Longitude 87°55'23.484"

COUNTY Du Page DRILLING METHOD HSA HAMMER TYPE Automatic

STRUCT. NO. 4TAB2
 Station
 BORING NO. 4TAB2
 Station
 Offset 15.0 ft Northwest
 Ground Surface Elev. 97.69 ft

| DEPTH (ft) | BLOW COUNT (/6") | UCS (tsf) | MOIST (%) | SOIL DESCRIPTION | | | |
|------------|------------------|-----------|-----------|---|------------------|-----------|-----------|
| | | | | DEPTH (ft) | BLOW COUNT (/6") | UCS (tsf) | MOIST (%) |
| 95.69 | | | 15 | Surface Water Elev. N/A ft | | | |
| | | | | Stream Bed Elev. N/A ft | | | |
| | | | | Groundwater Elev.: First Encounter Dry ft | | | |
| | | | | Upon Completion Dry ft | | | |
| | | | | After Hrs. N/A | | | |
| | | | | Stiff Gray SILTY CLAY (continued) | 1 | | |
| | | | | | 3 | 0.8 | 13 |
| | | | | | 5 | B | |
| | | | | | 4 | | |
| | | | | | 5 | 2.9 | 15 |
| | | | | | 7 | B | |
| | | | | 73.19 | | | |
| | | | | Medium Stiff GRAY LOAM | -25 | | |
| | | | | | 2 | | |
| | | | | | 3 | 0.7 | 15 |
| | | | | | 4 | B | |
| | | | | 70.69 | | | |
| | | | | Very Stiff Gray CLAY | 3 | | |
| | | | | | 9 | 2.3 | 12 |
| | | | | | 7 | B | |
| | | | | | 3 | | |
| | | | | | 4 | 2.5 | 18 |
| | | | | | 7 | B | |
| | | | | | 5 | | |
| | | | | | 7 | 4.1 | 16 |
| | | | | | 7 | B | |
| | | | | 66.19 | | | |
| | | | | Benchmark is northwest bolt of existing tower. Assumed elevation = 100.0' | | | |
| | | | | End of Boring | | | |
| | | | | 84.69 | | | |
| | | | | Stiff Gray SILTY CLAY | 2 | | |
| | | | | | 4 | 2.3 | 12 |
| | | | | | 5 | B | |
| | | | | | 3 | | |
| | | | | | 4 | 1.9 | 13 |
| | | | | | 5 | B | |
| | | | | | 2 | | |
| | | | | | 3 | 1.1 | 12 |
| | | | | | 6 | B | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 8/6/15

ROUTE Various DESCRIPTION I-290 / IL 53 South of IL 72 (Higgins Rd), Cook County LOGGED BY M. Esposito

SECTION LOCATION West side of, SEC. 30, TWP. 41N, RNG. 11E, 3rd PM, Latitude 42°0'49.6571", Longitude -88°1'47.0136"

COUNTY Various DRILLING METHOD HSA HAMMER TYPE Automatic

STRUCT. NO. 4NCD3
 Station
 BORING NO. 4NCD3
 Station
 Offset 9.0 ft west
 Ground Surface Elev. 99.07 ft

| DEPTH (ft) | BLOW COUNT (/6") | UCS (tsf) | MOIST (%) | SOIL DESCRIPTION | | | |
|------------|------------------|-----------|-----------|--|------------------|-----------|-----------|
| | | | | DEPTH (ft) | BLOW COUNT (/6") | UCS (tsf) | MOIST (%) |
| | | | | Surface Water Elev. NA ft | | | |
| | | | | Stream Bed Elev. NA ft | | | |
| | | | | Groundwater Elev.: First Encounter 73.6 ft | | | |
| | | | | Upon Completion 86.0 ft | | | |
| | | | | After Hrs. NA | | | |
| | | | | Very Stiff Brown, Moist CLAY | 2 | | |
| | | | | | 2 | 1.4 | 16 |
| | | | | | 4 | B | |
| | | | | | 2 | | |
| | | | | | 3 | 3.5 | 20 |
| | | | | | 4 | P | |
| | | | | 94.57 | | | |
| | | | | Soft Black, Very Moist CLAY | -5 | | |
| | | | | | 3 | | |
| | | | | | 2 | 0.3 | 28 |
| | | | | | 4 | B | |
| | | | | 73.57 | | | |
| | | | | Medium Dense Gray, Coarse Grain, Wet SAND | 5 | | |
| | | | | | 7 | B | 21 |
| | | | | | 3 | | |
| | | | | | 7 | | 28 |
| | | | | 70.57 | | | |
| | | | | Very Stiff to Hard Gray, Moist CLAY | 9 | 3.1 | 17 |
| | | | | | 5 | | |
| | | | | | 10 | 5.7 | 17 |
| | | | | | 17 | B | |
| | | | | | 2 | | |
| | | | | | 5 | 3.6 | 21 |
| | | | | | 7 | B | |
| | | | | | 4 | | |
| | | | | | 6 | 4.4 | 18 |
| | | | | | 9 | B | |
| | | | | 65.07 | | | |
| | | | | Medium Dense Gray, Moist GRAVEL, with sand | -15 | | |
| | | | | | 3 | | |
| | | | | | 5 | 3.3 | 16 |
| | | | | | 7 | B | |
| | | | | 62.57 | | | |
| | | | | Boring was drilled 9' west of existing light tower. Benchmark is top of SE bolt on existing light tower (elev. = 100') End of Boring | | | |
| | | | | 82.07 | | | |
| | | | | Stiff to Very Stiff Gray, Moist CLAY | 1 | | |
| | | | | | 2 | 1.4 | 20 |
| | | | | | 3 | B | |
| | | | | | 1 | | |
| | | | | | 2 | 1.4 | 20 |
| | | | | | 3 | B | |
| | | | | | 1 | | |
| | | | | | 2 | 1.4 | 20 |
| | | | | | 3 | B | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, form 137 (Rev. 8-99)



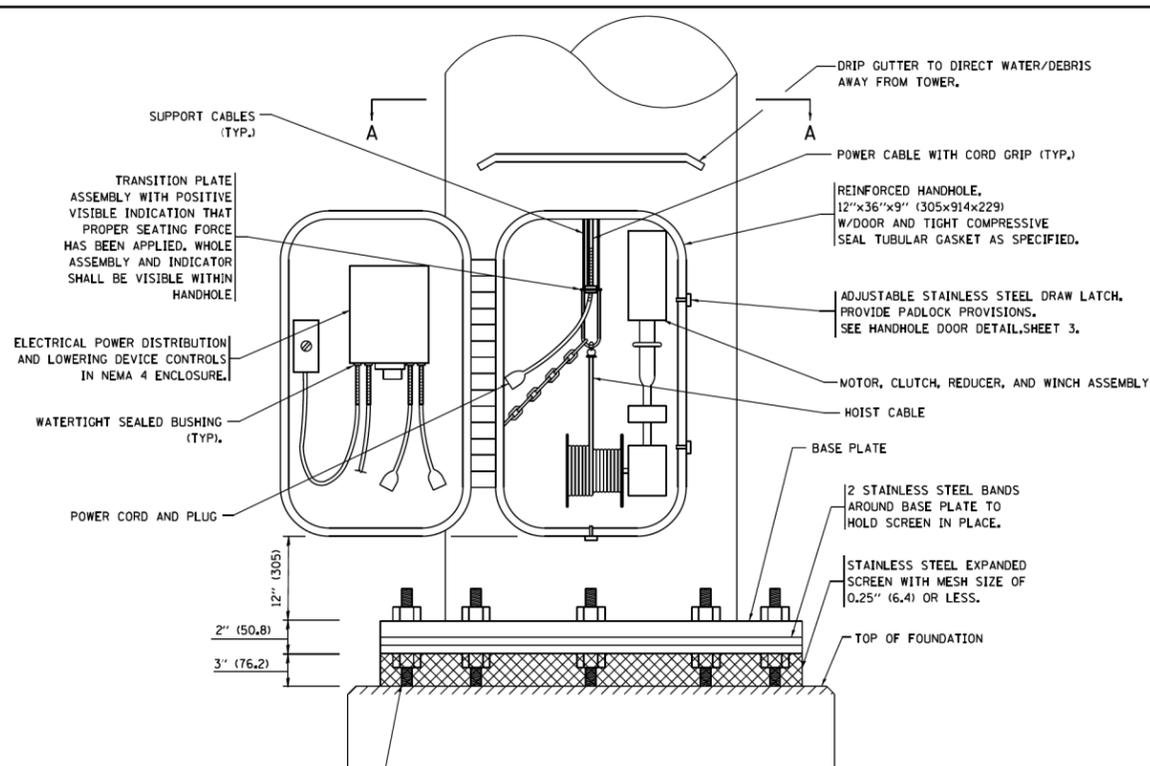
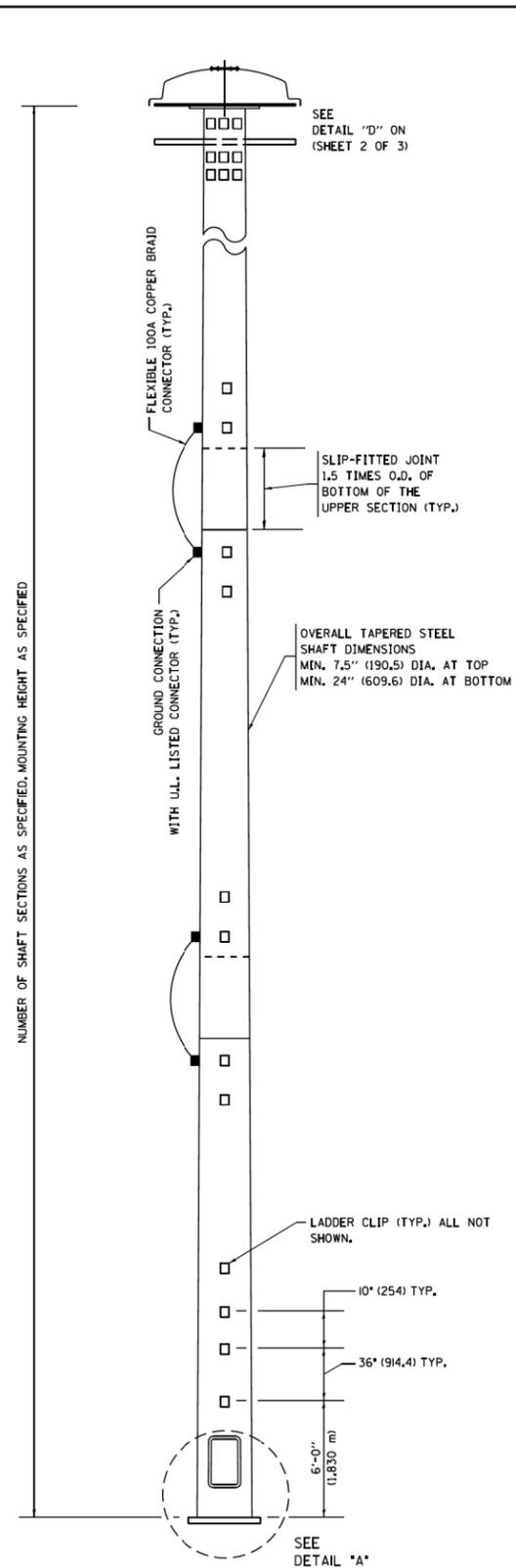
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| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

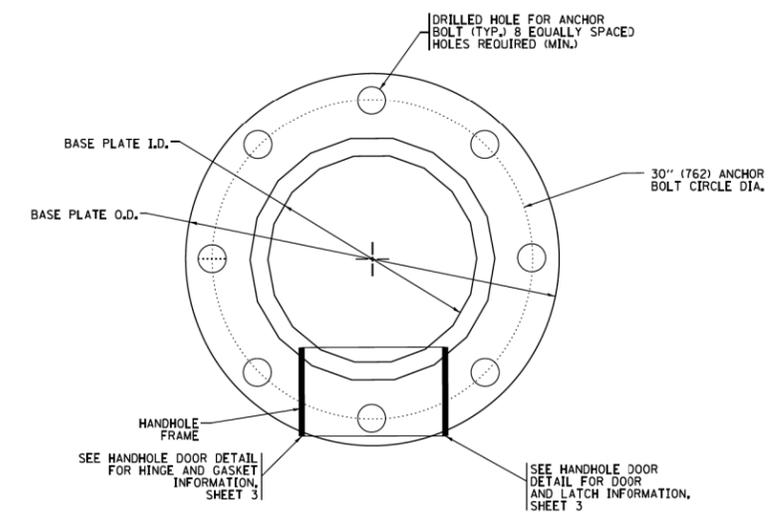
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| | | | | |
|--------------------|-----------|--------|---------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | | 84 | 56 |
| CONTRACT NO. 62A98 | | | ILLINOIS FED. AID PROJECT | |



DETAIL- "A"

3 CABLE LOWERING & SUPPORT MECHANISM SHOWN.



SECTION - A-A

NOTES:

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE DESIGN SHALL BE BASED UPON AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS, HOWEVER THE WIDTH OF REINFORCED OPENING REQUIREMENT IN CHAPTER 5, SECTION 5.6.6.1 SHALL NOT APPLY. LIGHT TOWERS SHALL BE DESIGNED FOR ADT > 10,000, RISK CATEGORY TYPICAL, AND FATIGUE IMPORTANCE CATEGORY I.

A MINIMUM TOTAL COMBINED LUMINAIRE WEIGHT OF 600 LB (272 KG) SHALL BE USED PLUS A COMBINED HOOD AREA AND LOWERING RING WEIGHT OF 400 LB (181 KG), THE ASSOCIATED TOTAL PROJECTED AREA SHALL BE 24 SQ FT (2.23 SQ M) AND 10 SQ FT (0.93 SQ) RESPECTIVELY.
- ALL TOWER SHAFT COMPONENTS, INCLUDING, BUT NOT LIMITED TO THE SHAFT SECTIONS, BASE PLATE, LADDER CLIPS, HANDHOLE DOOR, HANDHOLE REINFORCING, RAIN GUTTER, AND BASE PLATE, SHALL BE FABRICATED FROM HIGH-STRENGTH, LOW ALLOY, STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI (345 K PA) ACCORDING TO AASHTO M 270 (ASTM A 572 GR50)
- THE ELECTRIC MOTOR, MOTOR GEAR REDUCER, WINCH DRUM ASSEMBLY AND AUTOMATIC SHUTOFF SWITCH OF THE LOWERING DEVICE SHALL BE ACCESSIBLE FROM THE FRONT OF THE TOWER FOR EASY REMOVAL AND MAINTENANCE. ALL COMPONENTS SHALL BE REMOVABLE THROUGH THE HANDHOLE.
- THE LIGHT TOWER SHAFT SHALL HAVE LADDER CLIPS. CLIPS SHALL BEGIN 6 FT. (1.8 m) ABOVE THE BASE PLATE WITH ALTERNATE 36 INCH (900) AND 10 INCH (250) SPACING THEREAFTER, FOR THE ENTIRE LENGTH, THE TOP 10 FT. (3 m) OF THE POLE SHAFT SHALL HAVE 3 SETS OF CLIPS. EACH SET OF CLIPS SHALL BE 120 DEGREES APART. CLIPS SHALL BE 0.25 X 2 INCHES (6 X 50) WELDED TO THE SHAFT TO PRODUCE A SLOT 0.625 INCHES (15.9) DEEP AND 1.625 INCHES (41.3) LONG. THE TOP INSIDE EDGE SHALL BE CHAMFERED.
- A COPPER BONDING JUMPER SHALL BOND SLIP-FIT POLE SECTIONS TOGETHER WITH A FLAT COPPER MESH AND STAINLESS STEEL GROUND LUGS.
- ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- THE ENTIRE TOWER INCLUDING THE SHAFT, HANDHOLE, HANDHOLE DOOR, BASE PLATE AND ALL OTHER ELEMENTS WELDED TO THE SHAFT SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 (ASTM A 123). THE LUMINAIRE RING SHALL BE PRIMED AND PAINTED AS SPECIFIED OR BE STAINLESS STEEL
- ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-1-81765/1.
- THE LIGHT TOWER SHALL BE STRAIGHT AND CENTERED ON ITS LONGITUDINAL AXIS, UNDER NO-WIND CONDITIONS, SO WHEN EXAMINED WITH A TRANSIT FROM ANY DIRECTION, THE DEVIATION FROM THE NORMAL SHALL NOT EXCEED 1/8 IN. IN 3 FT (2 mm IN 1 m) WITHIN ANY 5 FT (1.5 m) OF HEIGHT, WITH TOTAL DEVIATION NOT TO EXCEED 3 IN. (75) FROM THE VERTICAL AXIS THROUGH THE CENTER OF THE POLE BASE.
- PVC CONDUIT WILL NOT BE ALLOWED FOR ANY LIGHT TOWER COMPONENT.
- COUNTER WEIGHTS TO BE INCLUDED AS A PART OF THE LIGHT TOWER PAY ITEM.

| | | | |
|---|---------------------------------------|------------|-------------------------------|
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| | PLOT DATE = 7/7/2016 | | REVISED - R. TOMSONS 07-06-16 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

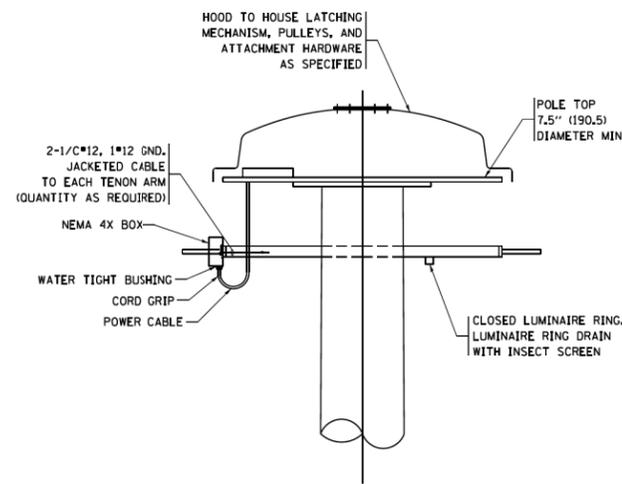
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|--------------------------------|---------|-------------|--------------|
| HIGH MAST LIGHT TOWER | | | |
| 90 FT TO 110 FT (27 m TO 34 m) | | | |
| SCALE: | SHEET 1 | OF 3 SHEETS | STA. TO STA. |

| | | | | |
|---------------------------|---------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | BE-500 | | | |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. | |

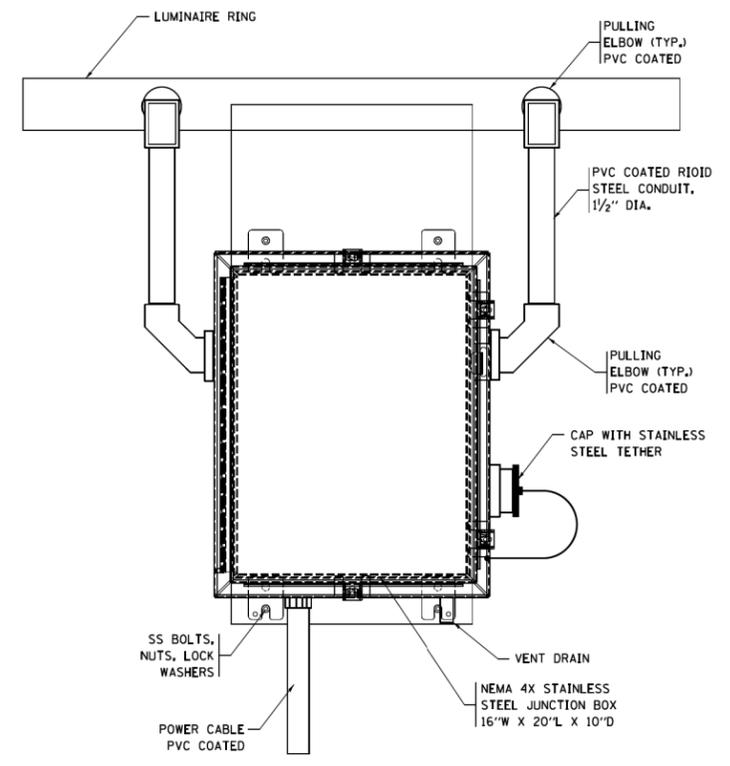
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| | DATE - 08-11-2016 | REVISED - |

IDOT STANDARD DETAIL

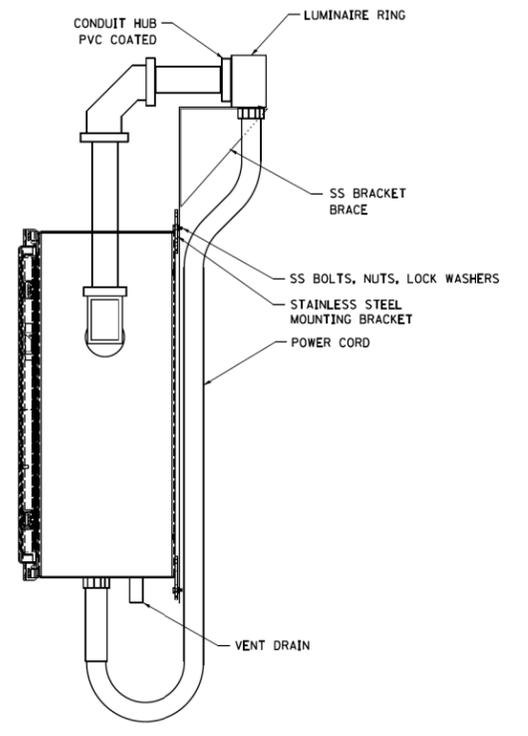
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DETAIL-D

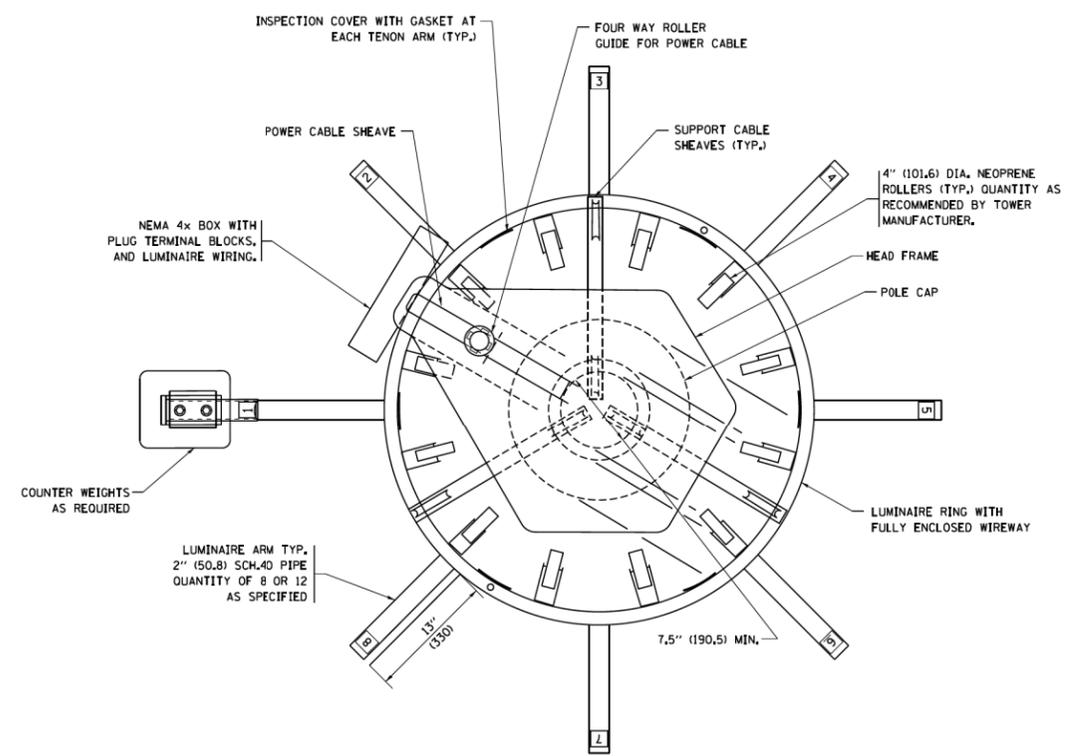


**FRONT VIEW
N.T.S.**



**SIDE VIEW
N.T.S.**

LUMINAIRE RING TERMINAL BOX



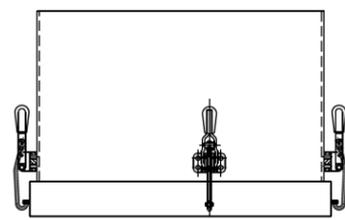
NOTES:

- LUMINAIRE WIRES SHALL EXTEND 24 INCHES (609mm) LONGER THAN THE RESPECTIVE TENON ARM AND SHALL BE TRAINED BACK INTO THE ARM WHICH SHALL THEN BE CLOSED WITH A CAP AS SPECIFIED. ALL WIRES SHALL BE CAPPED WITH HEAT SHRINK INSULATING BOOTS. CRIMP CAPS ARE UNACCEPTABLE. ALL RING WIRES SHALL BE TAGGED WITH WIRE MARKERS AT BOTH ENDS. THE TENON ARMS SHALL ALSO BE TAGGED CORRESPONDING TO THE WIRING CONTAINED WITHIN.
- SPLICING WILL NOT BE ALLOWED WITHIN THE LUMINAIRE RING.
- ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-1-81765/1.

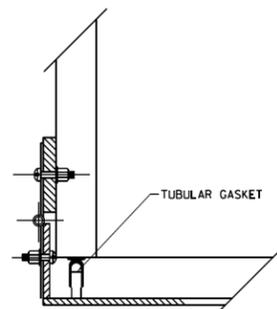
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| | | DATE - | REVISED - R. TOMSONS 02-27-13 | | ILLINOIS FED. AID PROJECT | | | | | | | |
| | | | REVISED - R. TOMSONS 04-29-16 | | | | | | | | | |

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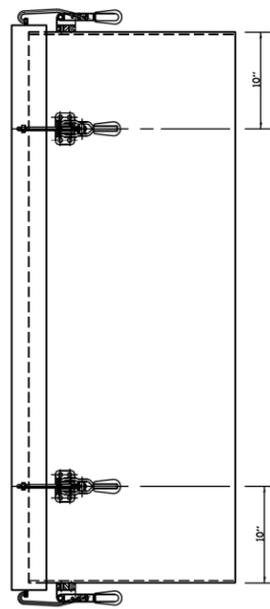
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| | PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - | CONTRACT NO. 62A98 | | | | | | | |



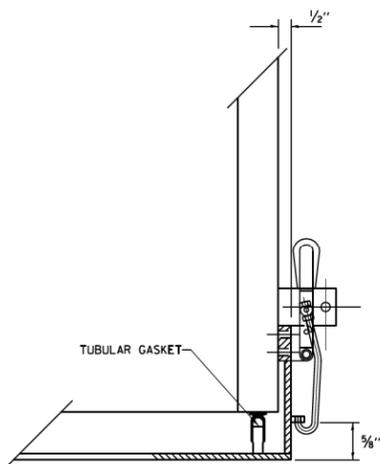
TOP VIEW



HINGE DETAIL

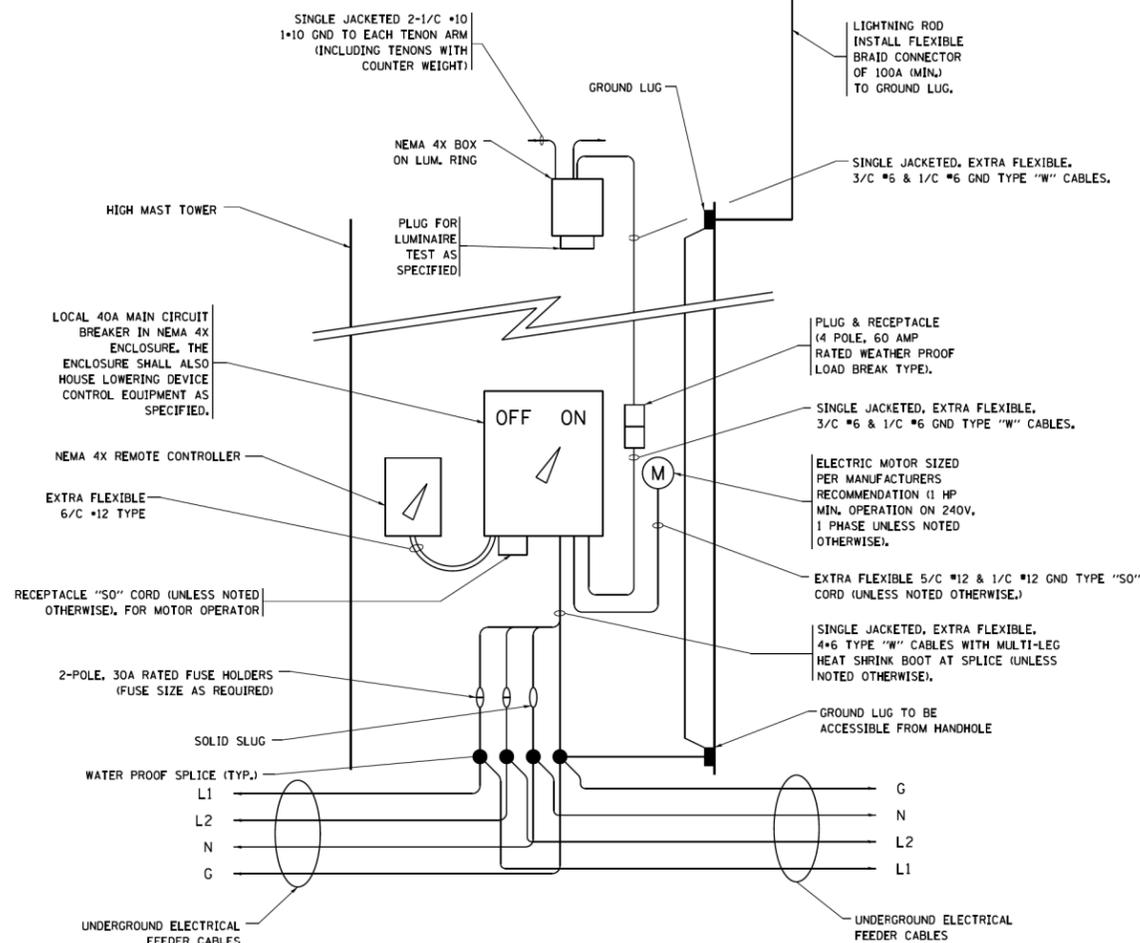


SIDE VIEW

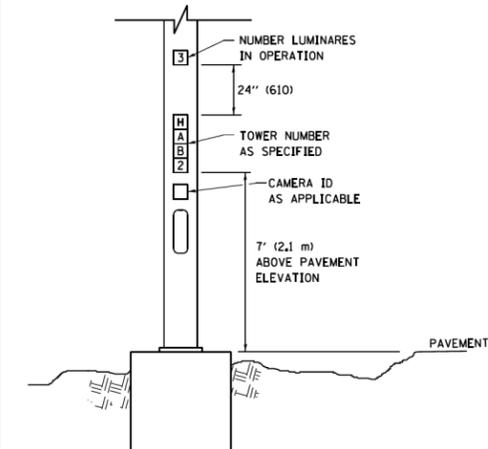


LATCH DETAIL

HANDHOLE DOOR DETAILS



HIGH MAST POLE WIRING DIAGRAM



LIGHT TOWER NUMBERING DETAIL

| | | | |
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| | PLOT DATE = 4/29/2016 | DATE - | REVISED - R. TOMSONS 02-27-13 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER
90 FT TO 110 FT (27 m TO 34 m)

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|---------|--------|---------------------------|-----------|
| | BE-500 | | | |
| CONTRACT NO. | | | ILLINOIS FED. AID PROJECT | |

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| | DATE - 08-11-2016 | REVISED - |

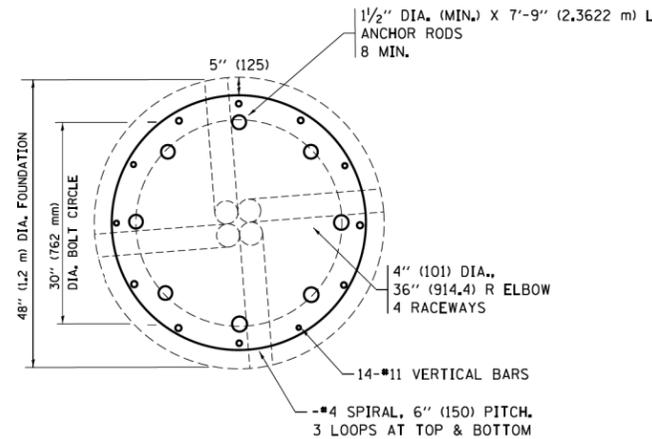
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT STANDARD DETAIL

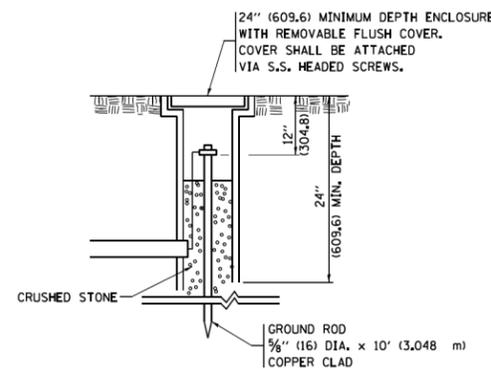
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| CONTRACT NO. 62A98 | | | ILLINOIS FED. AID PROJECT | |

SD-3

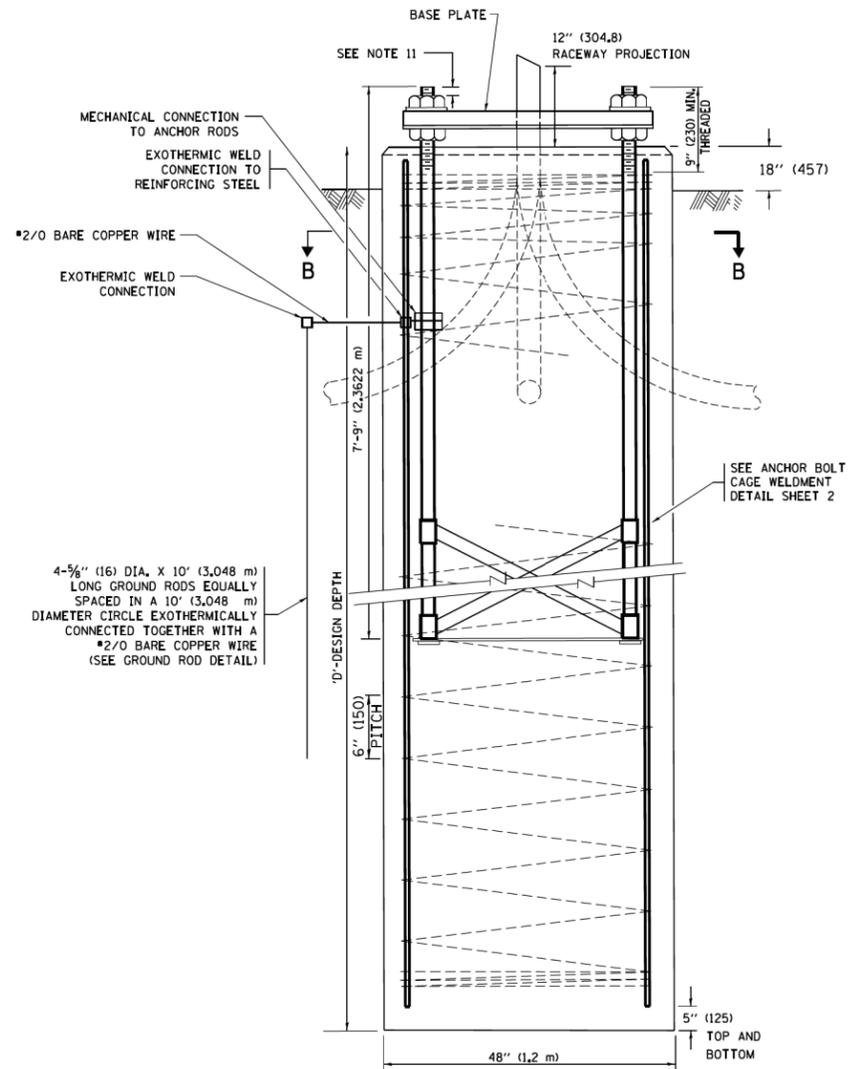
| SOIL CONSISTENCY | | SHAFT LENGTH (D) TABLE | | |
|------------------|------------|--|-------------------|-------------------|
| | | AVERAGE STRENGTH 0u In tsf (0u In kPa) | 100 FT. (30 m) | 110 FT. (34 m) |
| COHESIVE | SOFT | <0.5 (<50) | 22'-6" (6.9 m) | 24'-0" (7.2 m) |
| | MEDIUM | 0.5 TO 1 (50 TO 100) | 18'-6" (6.9 m) | 19'-0" (5.8 m) |
| | STIFF | 1 TO 2 (100 TO 200) | 15'-6" (4.7 m) | 16'-0" (5.5 m) |
| | VERY STIFF | 2 TO 4 (200 TO 400) | 13'-6" (4.1 m) | 14'-0" (4.2 m) |
| | HARD | >4 (>400) | 12'-0" (3.6 m) | 12'-6" (3.7 m) |
| GRANULAR | | N in BLOWS/FT. (N in BLOWS/0.3m) | | |
| | VERY LOOSE | <5 (<5) | 18'-0" (5.4 m) | 18'-6" (5.6 m) |
| | LOOSE | 5 TO 10 (5 TO 10) | 16'-6" (4.9 m) | 17'-0" (5.1 m) |
| | MEDIUM | 10 TO 25 (10 TO 25) | 15'-6" (5.2 m) | 16'-0" (5.9 m) |
| | DENSE | 25 TO 50 (25 TO 50) | 15'-0" (4.5 m) | 15'-6" (4.6 m) |
| | VERY DENSE | >50 (>50) | 14'-0" (4.2 m) | 14'-6" (4.4 m) |



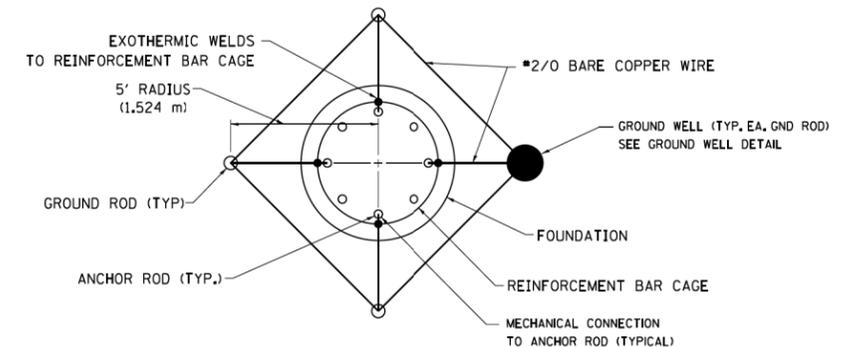
SECTION-B-B



GROUND WELL DETAIL



FOUNDATION ELEVATION



GROUND ROD DETAIL

DESIGN NOTES

- ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
- THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- THE TOP OF THE FOUNDATION TO 18" (450) BELOW GRADE SHALL BE FORMED.
- SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
- THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9.
- ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
- REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.
- A MINIMUM OF THREE FULL THREADS SHALL REMAIN EXPOSED AFTER LIGHT TOWER IS INSTALLED.
- ALL GROUNDING INDICATED IN THE PLANS SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
- CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
- ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
- COORDINATE THE ROD CIRCLE DIAMETER OF THE TOWER WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
- THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.

| | | | | | | | | | | | | |
|-------------|---------------------|------------|-------------------------------|---|---|---------------------|--------------|---------|--------|--------------|-----------|--|
| FILE NAME = | USER NAME = Footemj | DESIGNED - | REVISED - R. TOMSONS 03-12-10 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | HIGH MAST LIGHT TOWER 90 FT TO 110 FT (27 m TO 34 m) FOUNDATION DETAIL | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
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| | | DATE - | REVISED - R. TOMSONS 02-27-13 | | | | | | | | | |
| | | | REVISED - R. TOMSONS 04-29-16 | | | | | | | | | |

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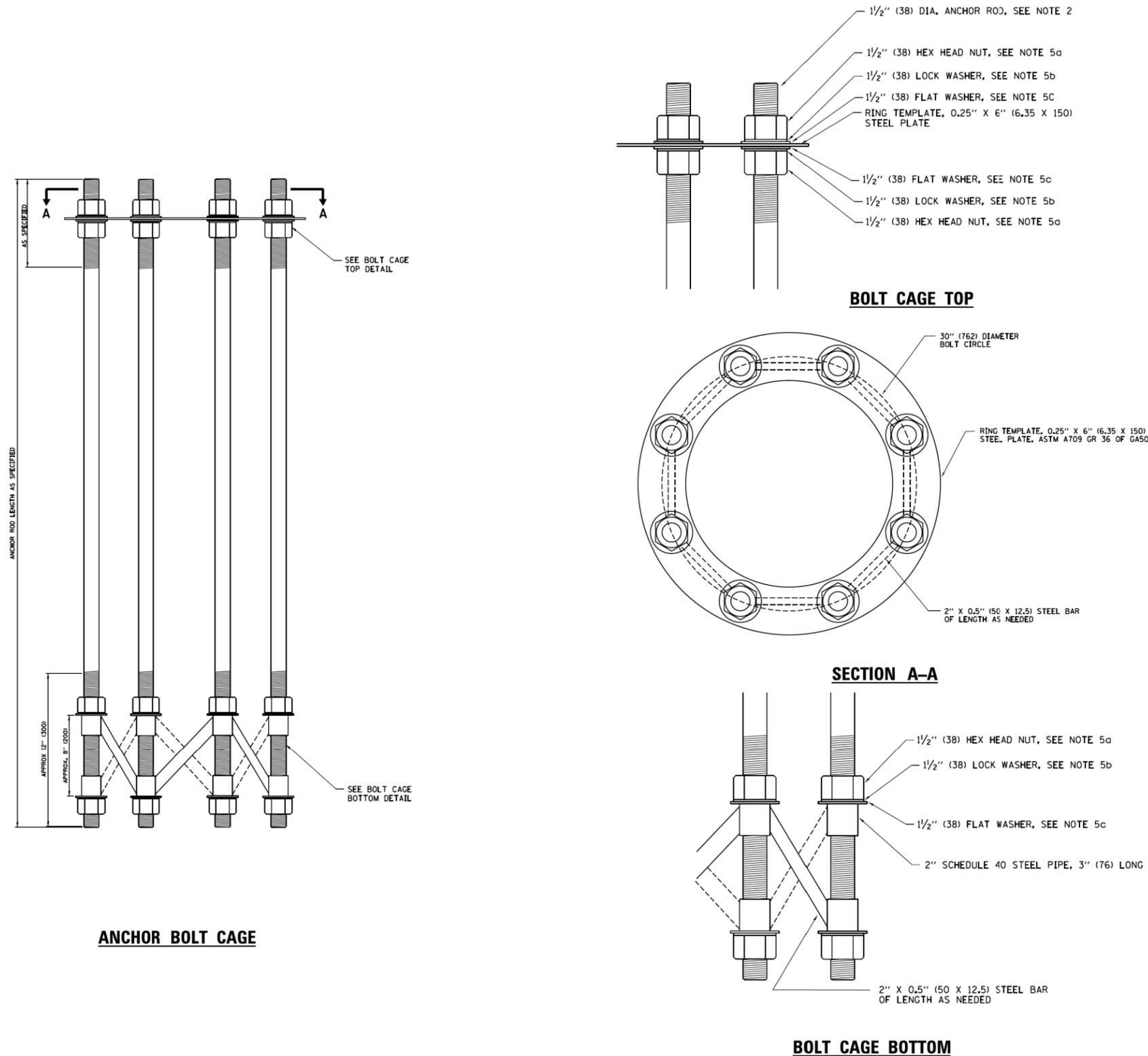
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| | PLOT DATE = 8/11/2016 | CHECKED - HS | REVISED - |
| | | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | |
|-----------------------------|-------|----|--------|
| IDOT STANDARD DETAIL | | | |
| SCALE: NONE | SHEET | OF | SHEETS |
| STA. | | TO | STA. |

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | | 84 | 62 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

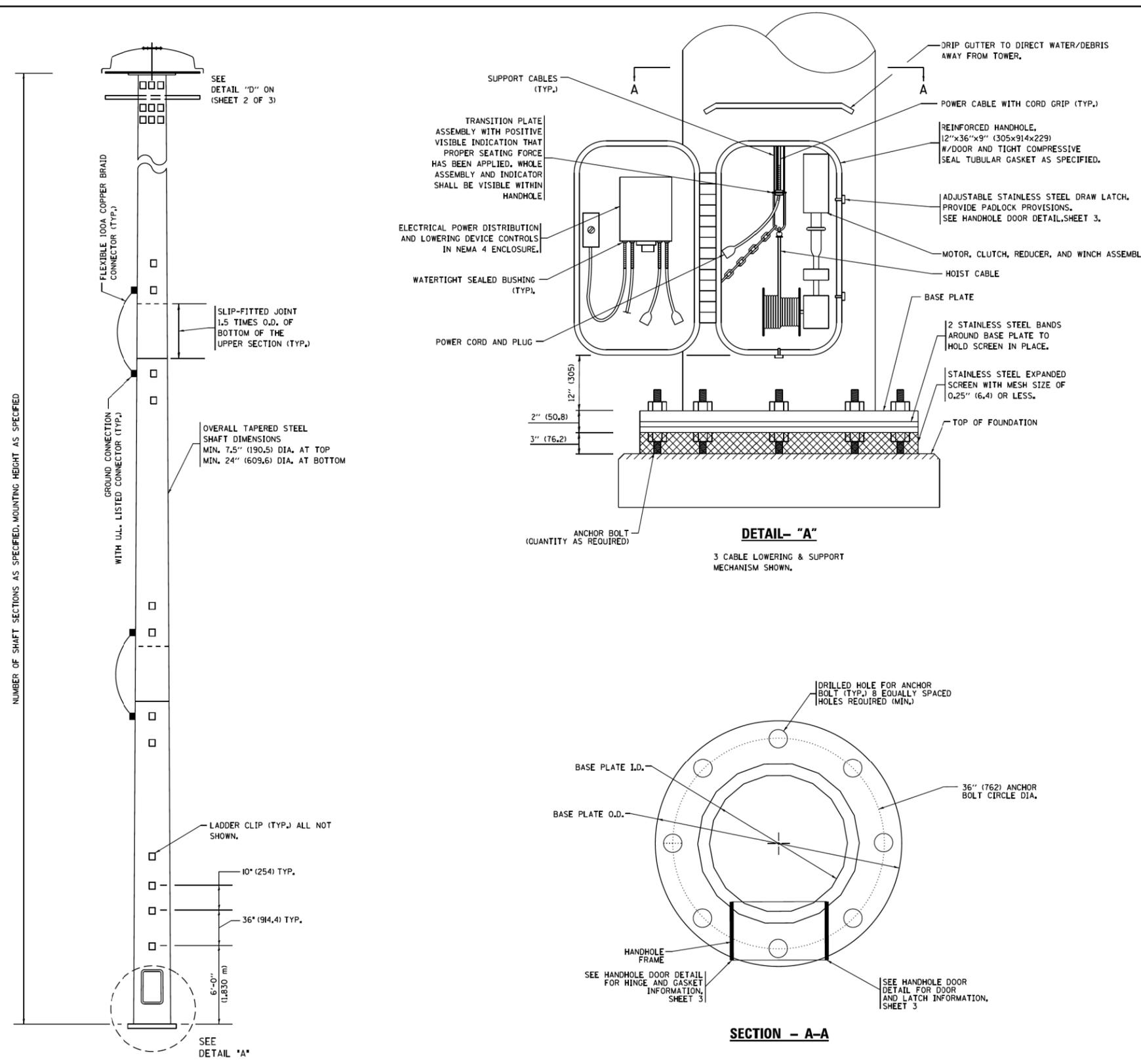
SD-4



NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
2. ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.09.
3. ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED WITH TOWER MANUFACTURERS REQUIREMENTS
4. CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
5. ANCHOR ROD CAGE HARDWARE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - a) 1.5 (38) HEX HEAD NUTS
AASHTO M291, GRADE C, C3, D, DH OR DH3
HOT DIPPED GALVANIZED AASHTO M 232
 - b) 1.5 (38) HELICAL LOCK WASHERS
ANSI/ASME B18.21.1
I.D. 1.504 - 1.524
O.D. 2.159 MAX.
WIDTH 0.292 MIN.
THICKNESS 0.375 MIN.
HARDNESS 26-45 ROCKWELL C
HOT DIPPED GALVANIZED AASHTO M232
 - c) 1.5 (38) FLAT WASHERS
AASHTO M293
O.D. 2.75
I.D. 1.56
THICKNESS 0.16 - 0.25
HARDNESS 26-45 ROCKWELL C.
HOT DIPPED GALVANIZED AASHTO M232
6. THE SHAFT LENGTHS SHALL BE BASED ON SOIL BORINGS IN THE PLANS AND OR A DETERMINATION OF SOIL CONDITIONS BY THE ENGINEER.
7. ALL FOUNDATION REINFORCEMENT STEEL SHALL BE EPOXY COATED.
8. THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.
9. ANCHOR RODS AND ALL ASSOCIATED HARDWARE ARE SHOWN AS MINIMUMS. SIZING SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.

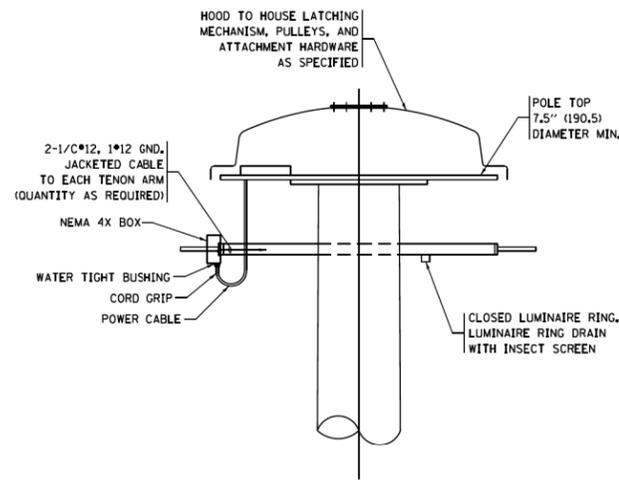
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| | | | REVISED - R. TOMSONS 04-29-16 | | | ILLINOIS FED. AID PROJECT | | | | | |



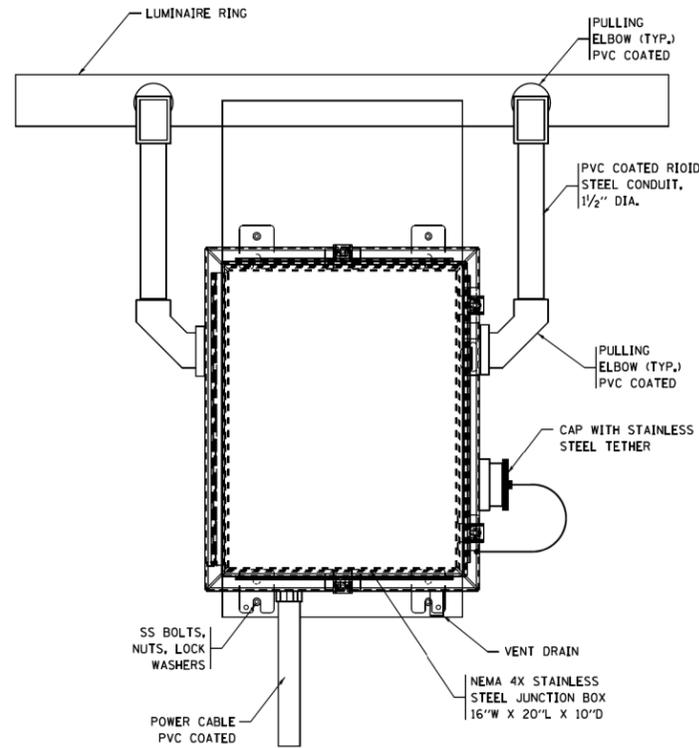
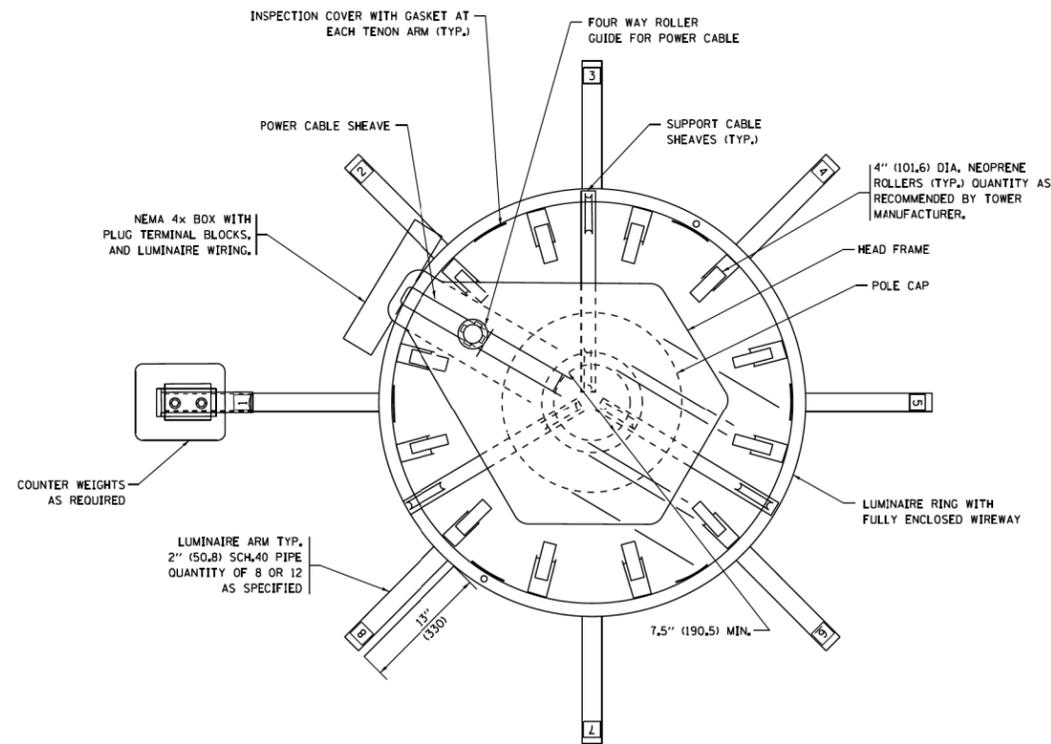
- NOTES:**
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 - THE DESIGN SHALL BE BASED UPON AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS, HOWEVER THE WIDTH OF REINFORCED OPENING REQUIREMENT IN CHAPTER 5, SECTION 5.6.6.1 SHALL NOT APPLY. LIGHT TOWERS SHALL BE DESIGNED FOR ADT > 10,000, RISK CATEGORY TYPICAL, AND FATIGUE IMPORTANCE CATEGORY I.

A MINIMUM TOTAL COMBINED LUMINAIRE WEIGHT OF 600 LB (272 KG) SHALL BE USED PLUS A COMBINED HOOD AREA AND LOWERING RING WEIGHT OF 400 LB (181 KG). THE ASSOCIATED TOTAL PROJECTED AREA SHALL BE 24 SQ FT (2.23 SQ M) AND 10 SQ FT (0.93 SQ M) RESPECTIVELY.
 - ALL TOWER SHAFT COMPONENTS, INCLUDING, BUT NOT LIMITED TO THE SHAFT SECTIONS, BASE PLATE, LADDER CLIPS, HANDHOLE DOOR, HANDHOLE REINFORCING, RAIN GUTTER, AND BASE PLATE, SHALL BE FABRICATED FROM HIGH-STRENGTH, LOW ALLOY, STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI (345 K PA) ACCORDING TO AASHTO M 270 (ASTM A 572 GR50)
 - THE ELECTRIC MOTOR, MOTOR GEAR REDUCER, WINCH DRUM ASSEMBLY AND AUTOMATIC SHUTOFF SWITCH OF THE LOWERING DEVICE SHALL BE ACCESSIBLE FROM THE FRONT OF THE TOWER FOR EASY REMOVAL AND MAINTENANCE. ALL COMPONENTS SHALL BE REMOVABLE THROUGH THE HANDHOLE.
 - THE LIGHT TOWER SHAFT SHALL HAVE LADDER CLIPS. CLIPS SHALL BEGIN 6 FT. (1.8 m) ABOVE THE BASE PLATE WITH ALTERNATE 36 INCH (900) AND 10 INCH (250) SPACING THEREAFTER, FOR THE ENTIRE LENGTH. THE TOP 10 FT. (3 m) OF THE POLE SHAFT SHALL HAVE 3 SETS OF CLIPS. EACH SET OF CLIPS SHALL BE 120 DEGREES APART. CLIPS SHALL BE 0.25 X 2 INCHES (6 X 50) WELDED TO THE SHAFT TO PRODUCE A SLOT 0.625 INCHES (15.9) DEEP AND 1.625 INCHES (41.3) LONG. THE TOP INSIDE EDGE SHALL BE CHAMFERED.
 - A COPPER BONDING JUMPER SHALL BOND SLIP-FIT POLE SECTIONS TOGETHER WITH A FLAT COPPER MESH AND STAINLESS STEEL GROUND LUGS.
 - ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
 - THE ENTIRE TOWER INCLUDING THE SHAFT, HANDHOLE, HANDHOLE DOOR, BASE PLATE AND ALL OTHER ELEMENTS WELDED TO THE SHAFT SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 (ASTM A 123), THE LUMINAIRE RING SHALL BE PRIMED AND PAINTED AS SPECIFIED OR BE STAINLESS STEEL
 - ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.
 - THE LIGHT TOWER SHALL BE STRAIGHT AND CENTERED ON ITS LONGITUDINAL AXIS, UNDER NO-WIND CONDITIONS, SO WHEN EXAMINED WITH A TRANSIT FROM ANY DIRECTION, THE DEVIATION FROM THE NORMAL SHALL NOT EXCEED 1/8 IN. IN 3 FT (2 mm IN 1 m) WITHIN ANY 5 FT (1.5 m) OF HEIGHT, WITH TOTAL DEVIATION NOT TO EXCEED 3 IN. (75) FROM THE VERTICAL AXIS THROUGH THE CENTER OF THE POLE BASE.
 - PVC CONDUIT WILL NOT BE ALLOWED FOR ANY LIGHT TOWER COMPONENT.
 - COUNTER WEIGHTS TO BE INCLUDED AS A PART OF THE LIGHT TOWER PAY ITEM.

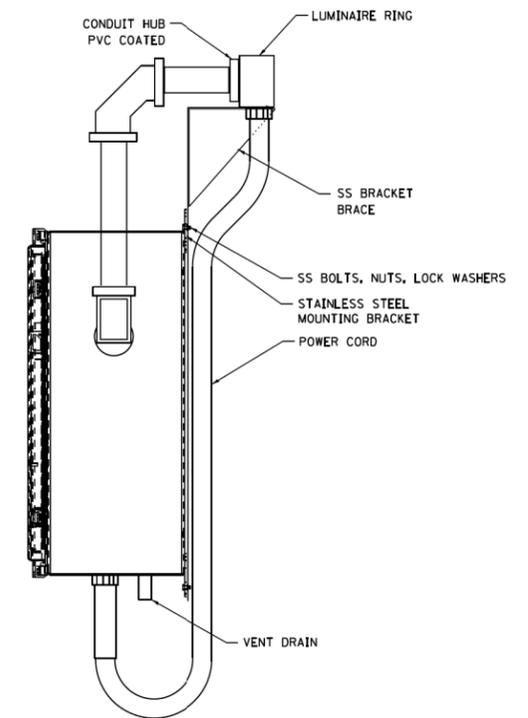
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| FILE NAME = | USER NAME = foostmj | DESIGNED - | REVISED - R. TOMSONS 09-02-10 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | HIGH MAST LIGHT TOWER 120 FT TO 140 FT (36 m TO 43 m) | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| pw:\IL\084EBID\TEG\Illinois.gov\WIDOT\Documents\1007 Offices\District 1\Projects\Dist 1\DRAWING\CADData\CADsheets\be505.dgn | | DRAWN - GJ | REVISED - R. TOMSONS 02-27-13 | | SCALE: | SHEET 1 OF 3 SHEETS | STA. | TO STA. | BE-505 | CONTRACT NO. | | |
| Default | | CHECKED - | REVISED - R. TOMSONS 04-29-16 | | ILLINOIS FED. AID PROJECT | | | | | | | |
| | | DATE - | REVISED - R. TOMSONS 07-06-16 | | | | | | | | | |



DETAIL-D



**FRONT VIEW
N.T.S.**



**SIDE VIEW
N.T.S.**

LUMINAIRE RING TERMINAL BOX

NOTES:

- LUMINAIRE WIRES SHALL EXTEND 24 INCHES (609mm) LONGER THAN THE RESPECTIVE TENON ARM AND SHALL BE TRAINED BACK INTO THE ARM WHICH SHALL THEN BE CLOSED WITH A CAP AS SPECIFIED. ALL WIRES SHALL BE CAPPED WITH HEAT SHRINK INSULATING BOOTS, CRIMP CAPS ARE UNACCEPTABLE. ALL RING WIRES SHALL BE TAGGED WITH WIRE MARKERS AT BOTH ENDS. THE TENON ARMS SHALL ALSO BE TAGGED CORRESPONDING TO THE WIRING CONTAINED WITHIN.
- SPlicing WILL NOT BE ALLOWED WITHIN THE LUMINAIRE RING.
- ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.

| | | | |
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| | PLOT DATE = 7/6/2016 | DATE - | REVISED - R. TOMSONS 07-06-16 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

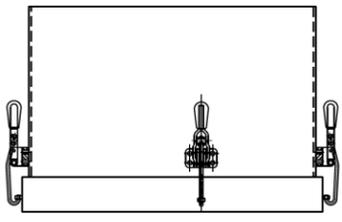
| | | | |
|---------------------------------|---------|------|---------------------|
| HIGH MAST LIGHT TOWER | | | |
| 120 FT TO 140 FT (36 m TO 43 m) | | | |
| SCALE: | SHEET 2 | OF 3 | SHEETS STA. TO STA. |

| | | | | |
|---------------------------|---------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | BE-505 | | | |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. | |

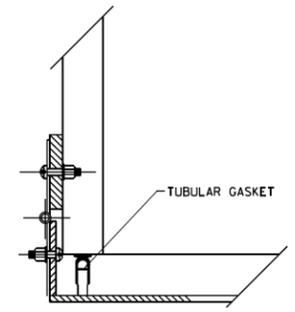
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| | DRAWN - GJ | REVISED - |
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| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

| | | | |
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| IDOT STANDARD DETAIL | | | |
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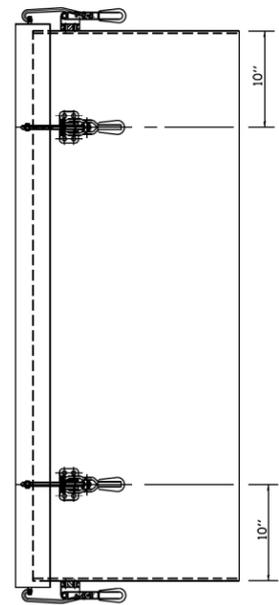
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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62A98 | |



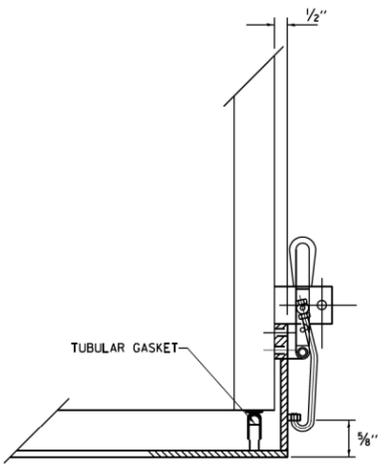
TOP VIEW



HINGE DETAIL

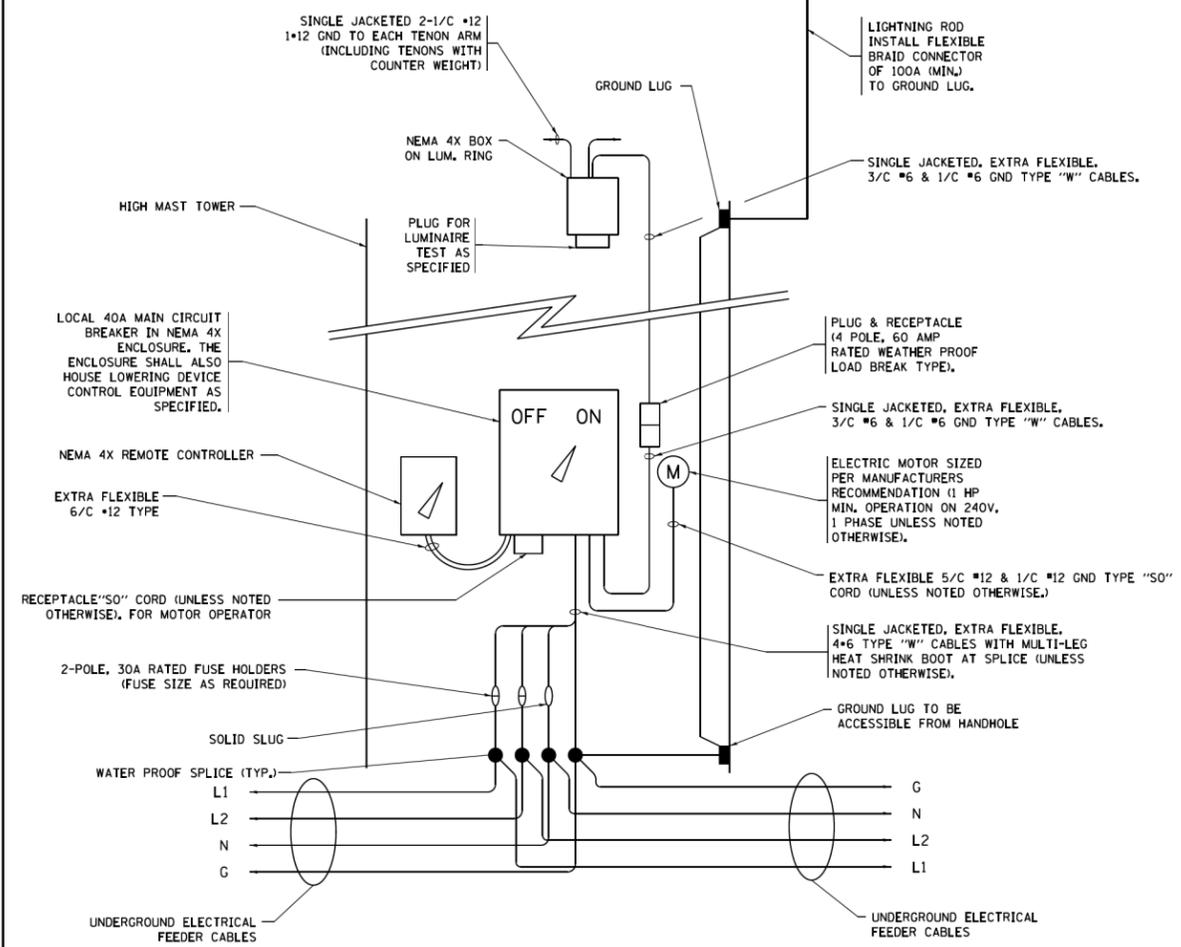


SIDE VIEW

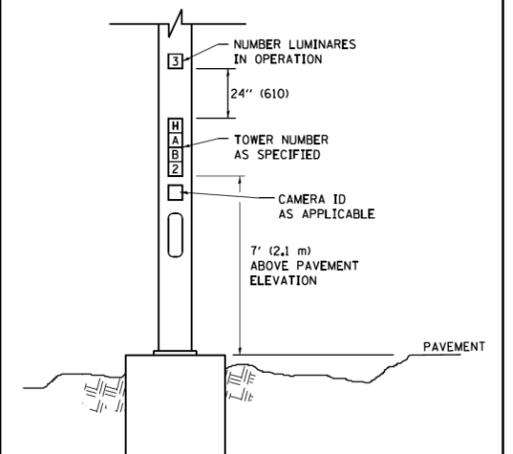


LATCH DETAIL

HANDHOLE DOOR DETAILS



HIGH MAST POLE WIRING DIAGRAM



LIGHT TOWER NUMBERING DETAIL

| | | | |
|---|---|------------|------------------------------|
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

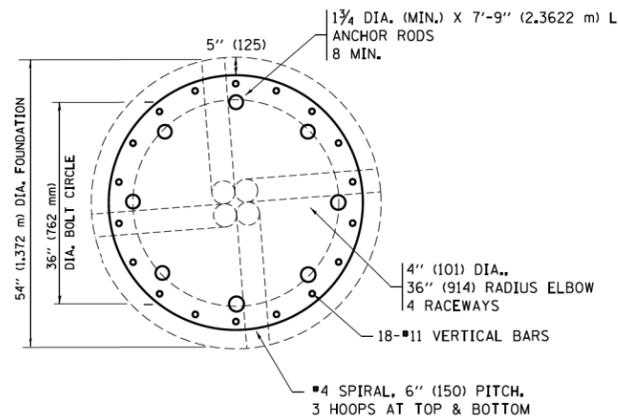
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| HIGH MAST LIGHT TOWER | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 120 FT TO 140 FT (36 m TO 43 m) | | | BE-505 | | | |
| SCALE: | SHEET 3 OF 3 SHEETS | STA. | TO STA. | | CONTRACT NO. | |
| ILLINOIS FED. AID PROJECT | | | | | | |

| | | |
|-----------------------|-------------------|----------|
| USER NAME = *USER* | DESIGNED - HM | REVISD - |
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| PLOT DATE = 8/11/2016 | | |

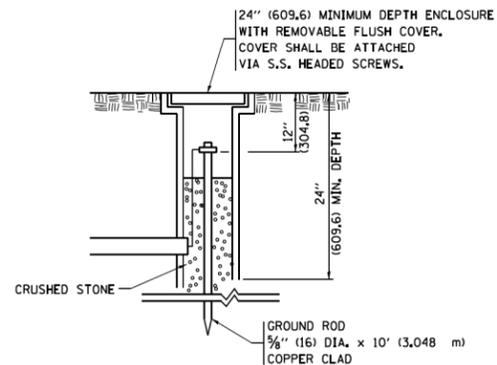
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | | | | |
|-----------------------------|-----------------|-----------|-----------|--------|--------------------|-----------|
| IDOT STANDARD DETAIL | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | 2015-039L | | 84 | 66 |
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| ILLINOIS FED. AID PROJECT | | | | | | |

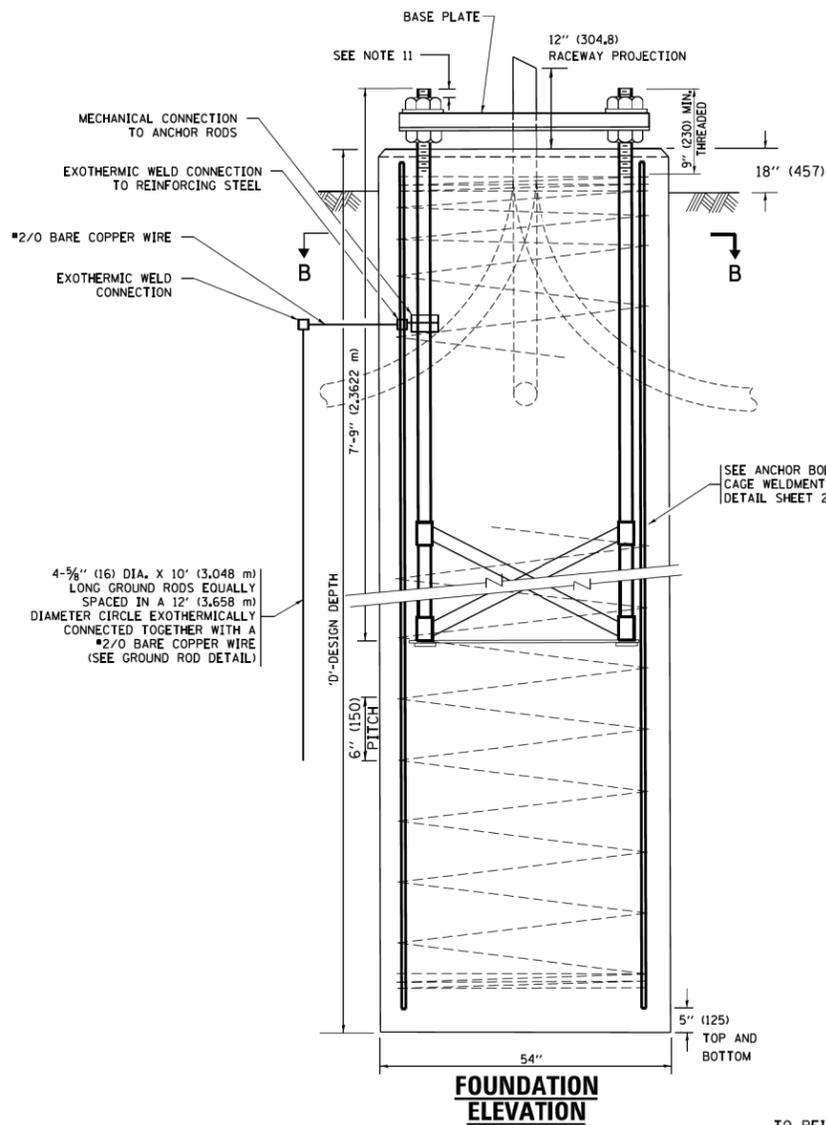
| SOIL CONSISTENCY | | SHAFT LENGTH (D) TABLE | | | |
|------------------|------------|--|-----------------------------|-------------------|-------------------|
| | | AVERAGE STRENGTH Qu In tsf (Qu In kPa) | LIGHT TOWER MOUNTING HEIGHT | | |
| | | | 120 FT. (37 m) | 130 FT. (40 m) | 140 FT. (43 m) |
| SOFT | | <0.5 (<50) | 25'-0" (7.6 m) | 26'-6" (8.0 m) | 27'-6" (8.3 m) |
| | MEDIUM | 0.5 TO 1 (50 TO 100) | 20'-6" (6.2 m) | 21'-6" (6.4 m) | 22'-0" (6.7 m) |
| COHESIVE | STIFF | 1 TO 2 (100 TO 200) | 17'-6" (5.2 m) | 18'-0" (5.4 m) | 18'-6" (5.5 m) |
| | VERY STIFF | 2 TO 4 (200 TO 400) | 15'-0" (4.5 m) | 15'-6" (4.6 m) | 16'-0" (4.7 m) |
| | HARD | >4 (>400) | 13'-6" (4.0 m) | 13'-6" (4.1 m) | 14'-0" (4.2 m) |
| | | N In BLOWS/FT. (N In BLOWS/0.3m) | | | |
| | VERY LOOSE | <5 (<5) | 19'-0" (6.3 m) | 20'-0" (6.0 m) | 20'-6" (6.2 m) |
| | LOOSE | 5 TO 10 (5 TO 10) | 17'-6" (5.7 m) | 18'-0" (5.5 m) | 18'-6" (5.6 m) |
| GRANULAR | MEDIUM | 10 TO 25 (10 TO 25) | 16'-6" (5.5 m) | 17'-0" (5.2 m) | 17'-6" (5.3 m) |
| | DENSE | 25 TO 50 (25 TO 50) | 15'-6" (5.2 m) | 16'-6" (4.9 m) | 16'-6" (5.0 m) |
| | VERY DENSE | >50 (>50) | 15'-0" (4.5 m) | 15'-6" (4.7 m) | 16'-0" (4.8 m) |



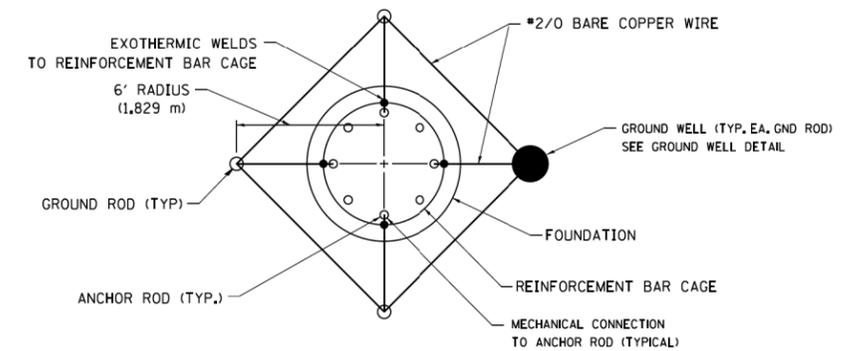
SECTION-B-B



GROUND WELL DETAIL



FOUNDATION ELEVATION



GROUND ROD DETAIL

DESIGN NOTES

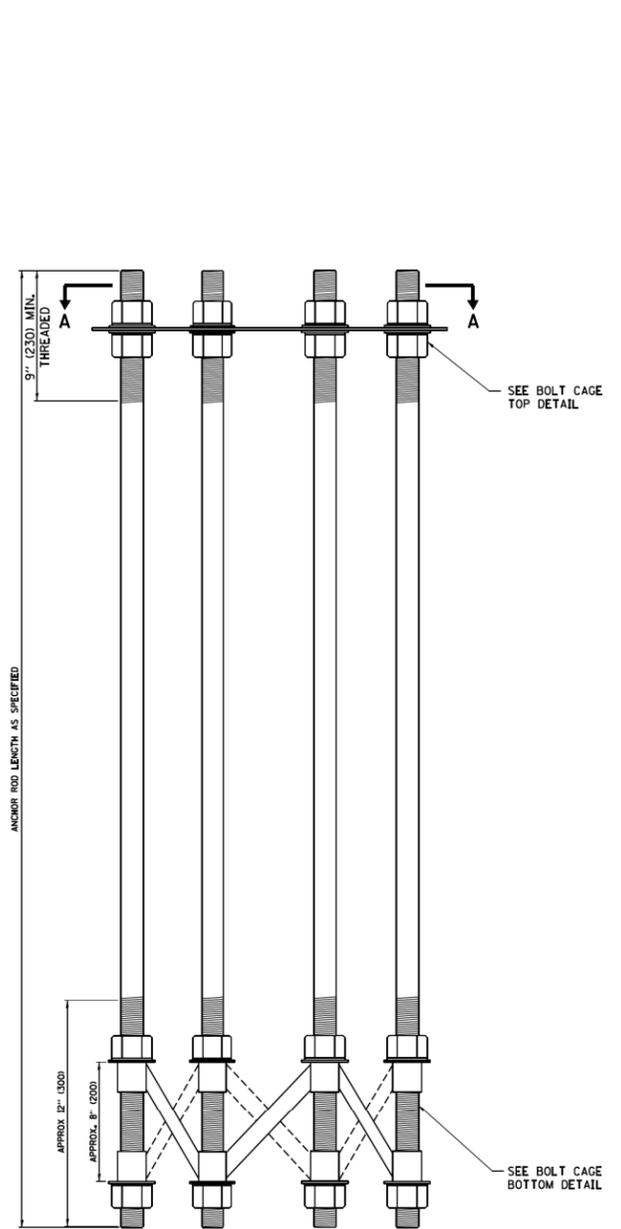
- ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
- THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- THE TOP OF THE FOUNDATION TO 18" (450) BELOW GRADE SHALL BE FORMED.
- SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
- THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9.
- ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
- REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.
- A MINIMUM OF THREE FULL THREADS SHALL REMAIN EXPOSED AFTER LIGHT TOWER IS INSTALLED.
- ALL GROUNDING INDICATED IN THE PLANS SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
- CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
- ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
- COORDINATE THE ROD CIRCLE DIAMETER OF THE TOWER WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
- THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.

| | | | |
|----------------------------|---------------------|------------|-------------------------------|
| FILE NAME = | USER NAME = footemj | DESIGNED - | REVISED - R. TOMSONS 09-02-10 |
| PROJECT = | PROJECT = | DRAWN - | REVISED - R. TOMSONS 02-27-13 |
| PLOT SCALE = 50,000' / in. | | CHECKED - | REVISED - R. TOMSONS 04-29-16 |
| PLOT DATE = 4/29/2016 | | DATE - | REVISED - |

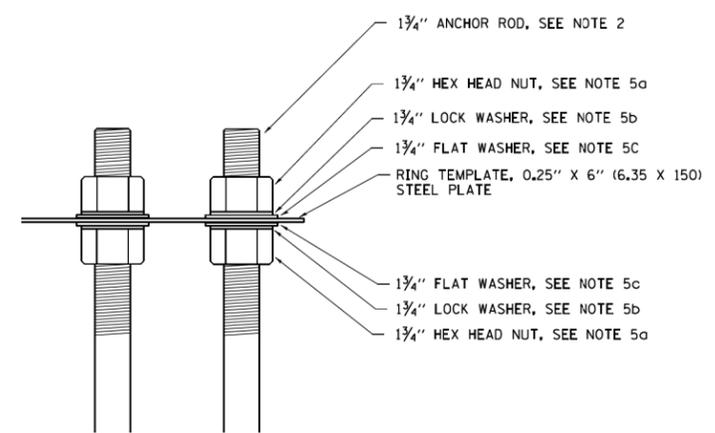
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HIGH MAST LIGHT TOWER
120 FT TO 140 FT FOUNDATION DETAIL**

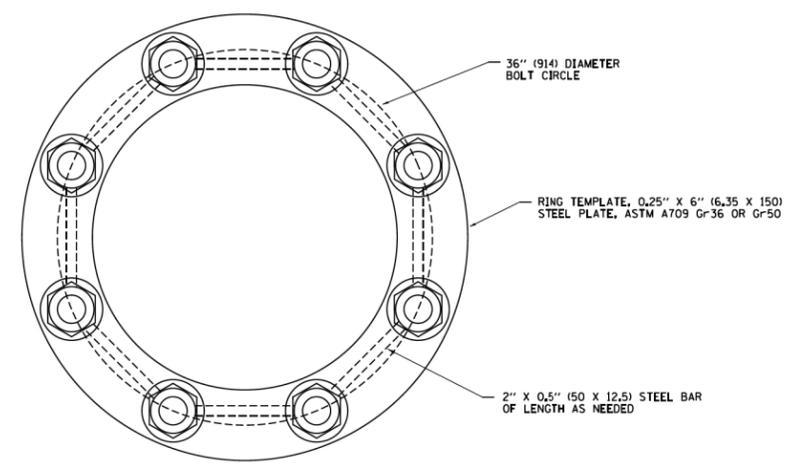
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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | BE-506 | | | |
| SCALE: SHEET 1 OF 2 SHEETS STA. TO STA. | | | CONTRACT NO. | |
| ILLINOIS FED. AID PROJECT | | | | |



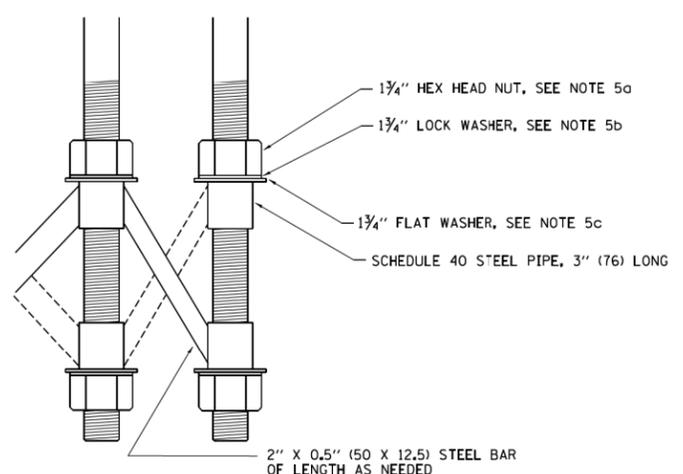
ANCHOR BOLT CAGE



BOLT CAGE TOP



SECTION A-A



BOLT CAGE BOTTOM

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
2. ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.09.
3. ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED WITH TOWER MANUFACTURERS REQUIREMENTS
4. CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
5. ANCHOR ROD CAGE HARDWARE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - a) 1,5 (38) HEX HEAD NUTS
AASHTO M291, GRADE C, C3, D ,DH OR DH3
HOT DIPPED GALVANIZED AASHTO M 232
 - b) 1,5 (38) HELICAL LOCK WASHERS
ANSI/ASME B18.21.1
I.D. 1.504 - 1.524
O.D. 2.159 MAX.
WIDTH 0.292 MIN.
THICKNESS 0.375 MIN.
HARDNESS 26-45 ROCKWELL C
HOT DIPPED GALVANIZED AASHTO M232
 - c) 1,5 (38) FLAT WASHERS
AASHTO M293
O.D. 2.75
I.D. 1.56
THICKNESS 0.16 - 0.25
HARDNESS 26-45 ROCKWELL C.
HOT DIPPED GALVANIZED AASHTO M232
6. THE SHAFT LENGTHS SHALL BE BASED ON SOIL BORINGS IN THE PLANS AND OR A DETERMINATION OF SOIL CONDITIONS BY THE ENGINEER.
7. ALL FOUNDATION REINFORCEMENT STEEL SHALL BE EPOXY COATED.
8. THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.
9. ANCHOR RODS AND ALL ASSOCIATED HARDWARE ARE SHOWN AS MINIMUMS. SIZING SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.

| | | | | | | | | | | | |
|-------------|----------------------------|--------------------------------|-------------------------------|---|---|---------------------|-----------|---------|---------------|--------------|--------------|
| FILE NAME = | USER NAME = footemj | DESIGNED - R, TOMSONS 09-02-10 | REVISED - R, TOMSONS 02-27-13 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | HIGH MAST LIGHT TOWER 120 FT TO 140 FT FOUNDATION DETAIL | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| Default | Default | CHECKED - | REVISED - R, TOMSONS 04-29-16 | | SCALE: | SHEET 2 OF 2 SHEETS | STA. | TO STA. | BE-506 | | CONTRACT NO. |
| | PLOT SCALE = 50,000' / in. | DATE - | | | ILLINOIS FED. AID PROJECT | | | | | | |
| | PLOT DATE = 4/29/2016 | | | | | | | | | | |

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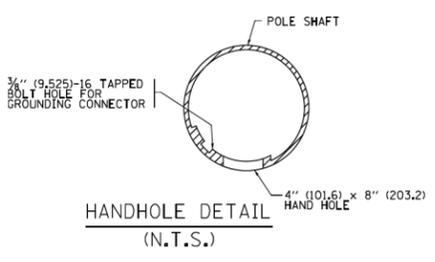
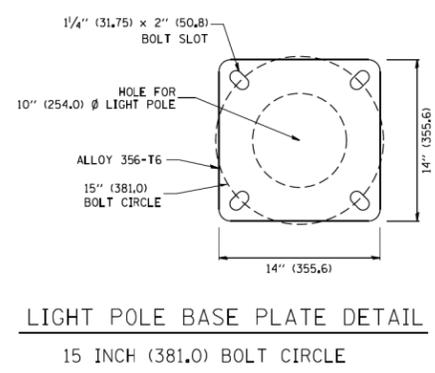
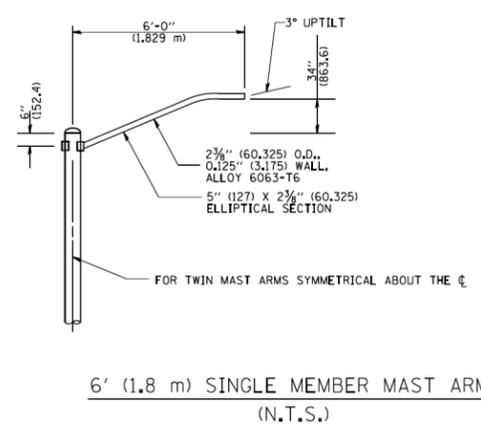
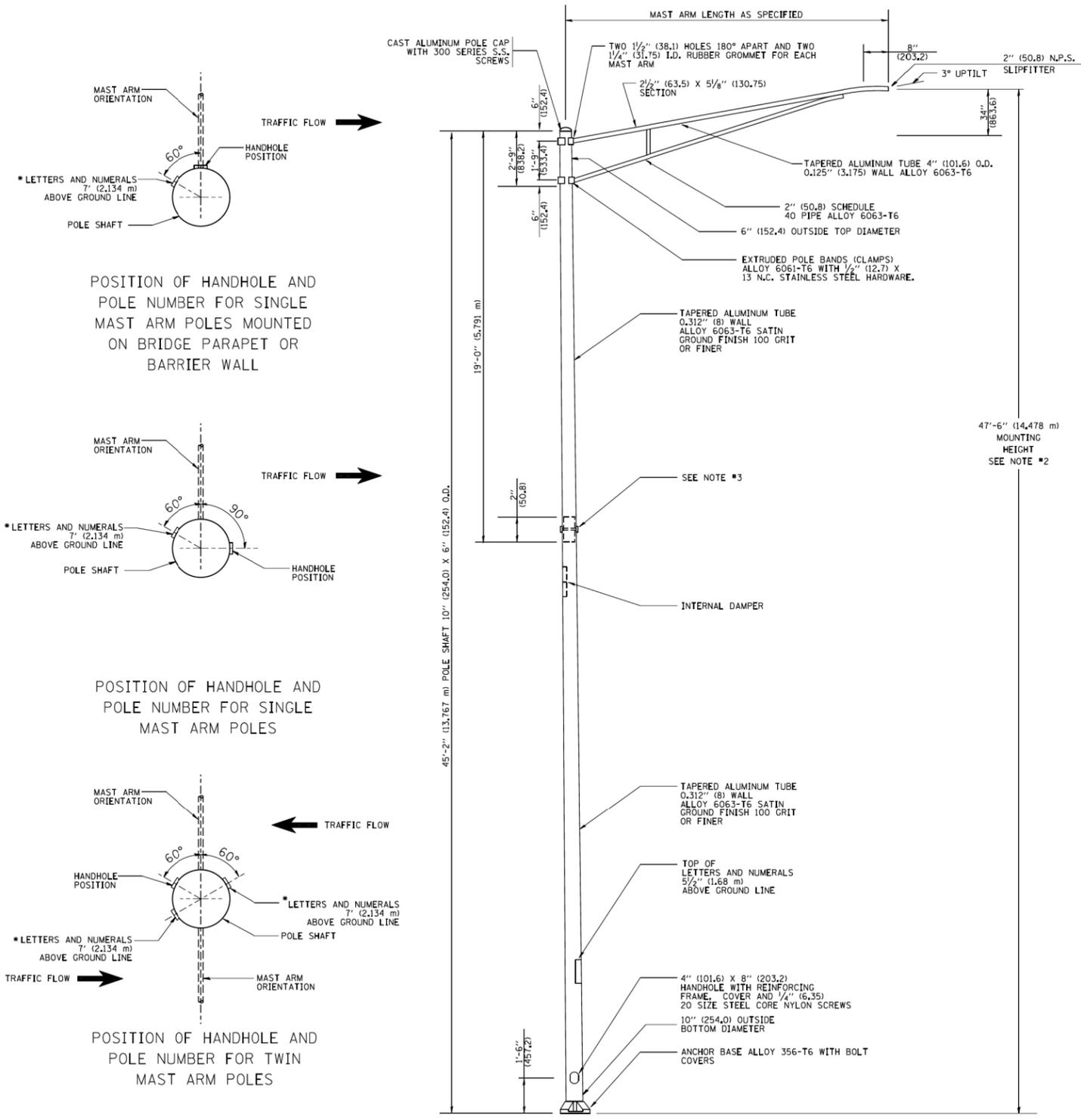
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| | USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | | DRAWN - GJ | REVISED - |
| | PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| | PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

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|---|--|
| STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | |
|---|--|

| | |
|-----------------------------|-----------------|
| IDOT STANDARD DETAIL | |
| SCALE: NONE | SHEET OF SHEETS |
| STA. | TO STA. |

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | | 84 | 68 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62A98 | |

SD-10



- NOTES:**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR - BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
 6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

| | | | |
|--|------------------------|------------|-------------------------------|
| FILE NAME = | USER NAME = drivakosgn | DESIGNED - | REVISED - R. TOMSONS 09-06-00 |
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| PLOT SCALE = 50.000' / in. | | CHECKED - | REVISED - R. TOMSONS 01-18-13 |
| PLOT DATE = 2/27/2013 | | DATE - | REVISED - |

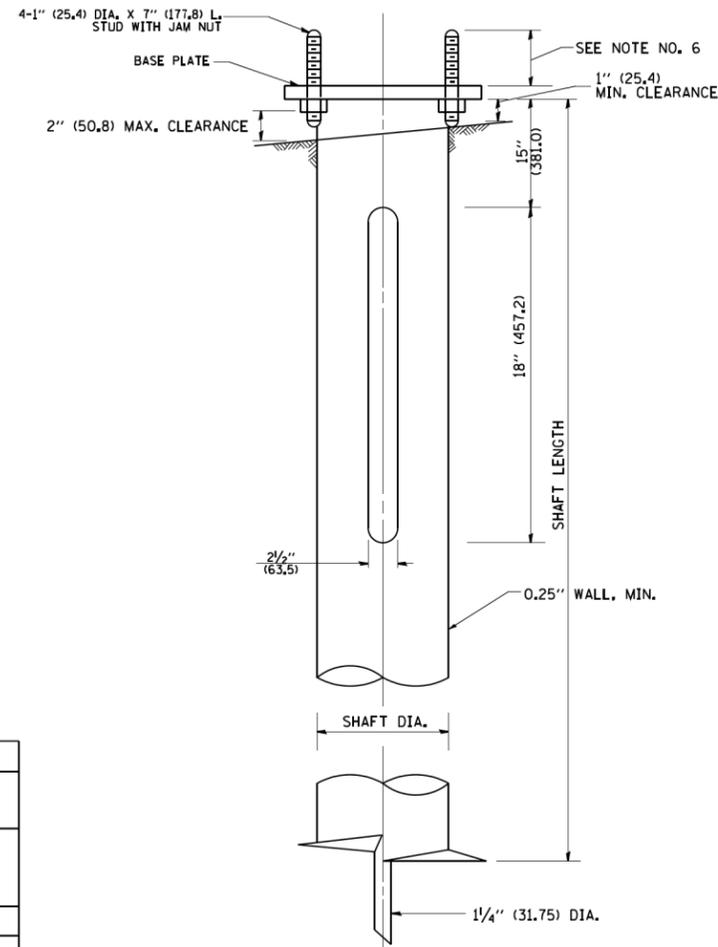
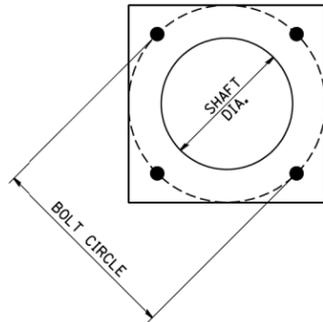
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | | | | |
|---|--|-------------------------|---------|--------------|--------------|-----------|
| ALUMINUM LIGHT POLE | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 47'-6" (14,478 m) MOUNTING HEIGHT | | | | | | |
| SCALE: NONE | | SHEET NO. 1 OF 1 SHEETS | | STA. | TO STA. | |
| | | BE-400 | | CONTRACT NO. | | |
| FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT | | | | | | |

| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | DRAWN - GJ | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED - HS | REVISED - |
| PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | | | | |
|-----------------------------|--|-----------------|-----------|--------------------|--------------|-----------|
| IDOT STANDARD DETAIL | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | 2015-039L | | 84 | 69 |
| SCALE: NONE | | SHEET OF SHEETS | | STA. | TO STA. | |
| | | | | CONTRACT NO. 62A98 | | |
| ILLINOIS FED. AID PROJECT | | | | | | |



HELIX FOUNDATION SIZE

| POLE MOUNTING HEIGHT | BOLT CIRCLE | SHAFT DIAMETER | SHAFT LENGTH | BASEPLATE |
|----------------------|-------------|----------------|--------------|----------------|
| 30 FT. | 1 1/2" | 8 5/8" | 6 FT. | 12"x12"x1" |
| 31 FT.-35 FT. | 1 1/2" | 8 5/8" | 6 FT. | 12"x12"x1" |
| 36 FT.-40 FT. | 15" | 8 5/8" | 6 FT. | 15"x15"x1 1/4" |
| 41 FT.-45 FT. | 15" | 8 5/8" | 6 FT. | 15"x15"x1 1/4" |
| 46 FT.-50 FT. | 15" | 10" | 8 FT. | 15"x15"x1 1/4" |

METAL HELIX FOUNDATION MATERIALS

| ITEM | MATERIAL REQUIREMENT |
|-------------------|--|
| BASEPLATE | AASHTO M 270M, GRADE 36 (M270M, GRADE 250) |
| SHAFT | ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM) |
| HELIX SCREW | AASHTO M 183 (ASTM A 635) |
| PILOT POINT | AASHTO M 270 (ASTM A 575) |
| ANCHOR RODS/STUDS | AASHTO M 314 (ASTM F 1554) |
| HEXAGON NUTS | AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H |
| WASHERS | AASHTO M 293 (ASTM F 436) |

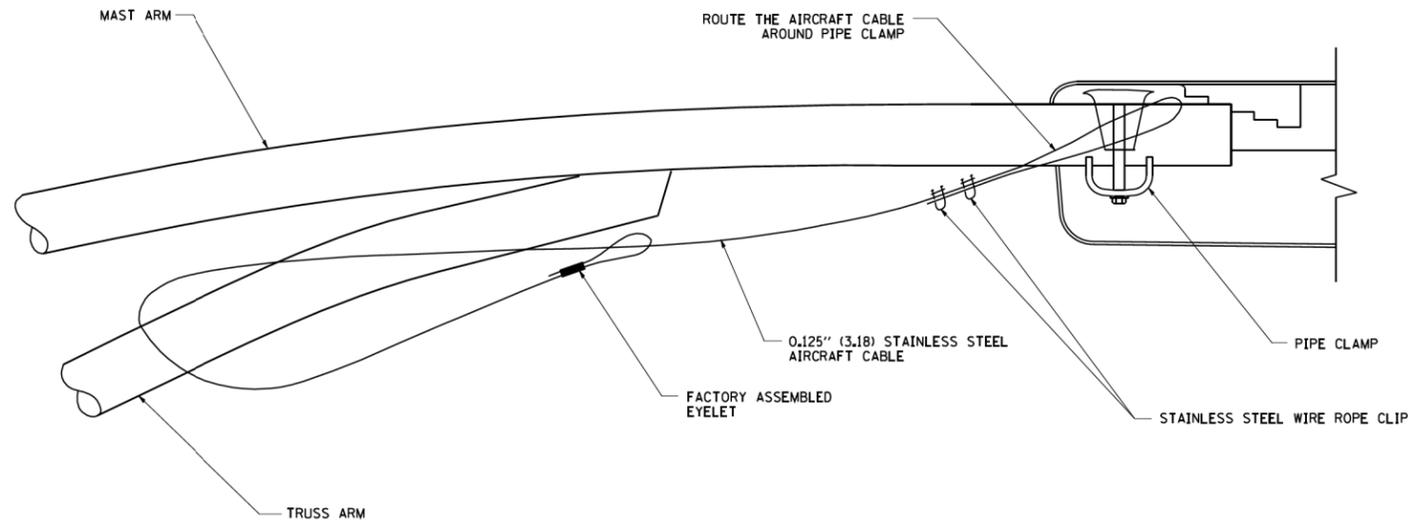
NOTES:

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVANIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1/4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558,18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ($\pm 1^\circ$) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE ($\pm 2^\circ$).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

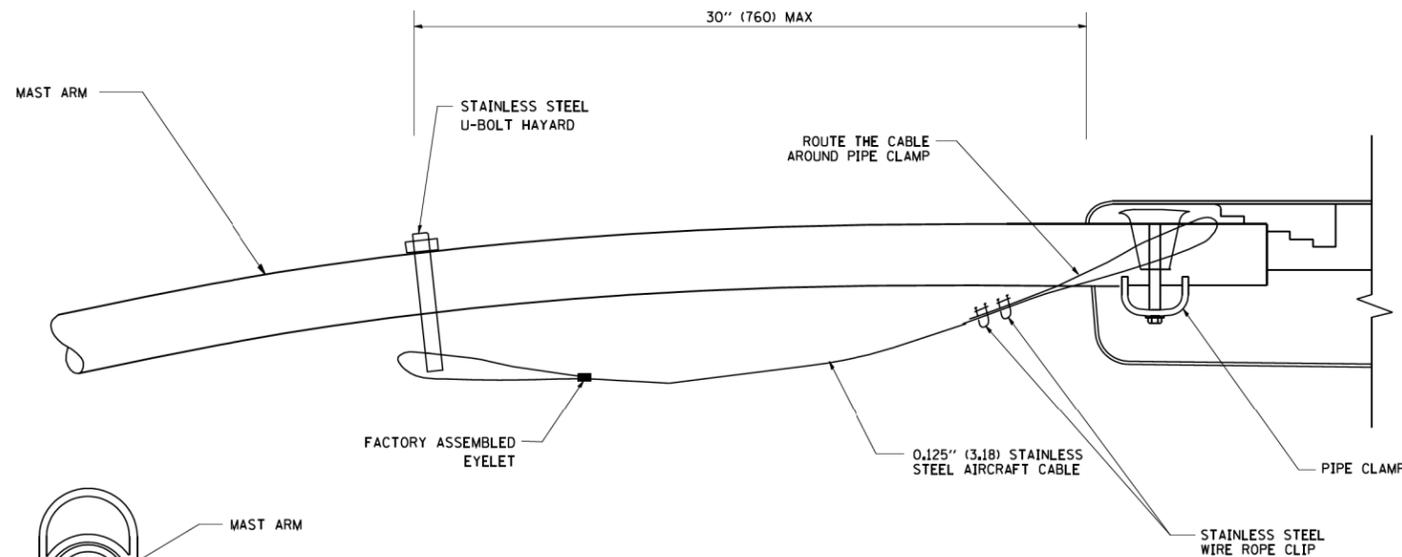
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| PLOT SCALE = 50.000' / IN. | CHECKED - | REVISED - | REVISED - | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | BE-305 | | CONTRACT NO. | |
| PLOT DATE = 1/4/2008 | DATE - 02-27-07 | REVISED - | REVISED - | | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | | | | |

SD-12

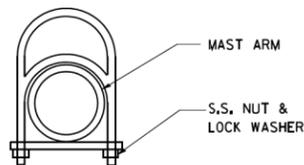
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|--|-----------------------|-------------------|-----------|---|-----------------------------|---------------------------|-----------------|-----------|---------|-----------|--------------|-----------|
| | USER NAME = #USER# | DESIGNED - HM | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | IDOT STANDARD DETAIL | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = #SCALE# | CHECKED - HS | REVISED - | | REVISED - | SCALE: NONE | SHEET OF SHEETS | STA. | TO STA. | 2015-039L | | 84 70 |
| | PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - | | REVISED - | ILLINOIS FED. AID PROJECT | | | | | | |



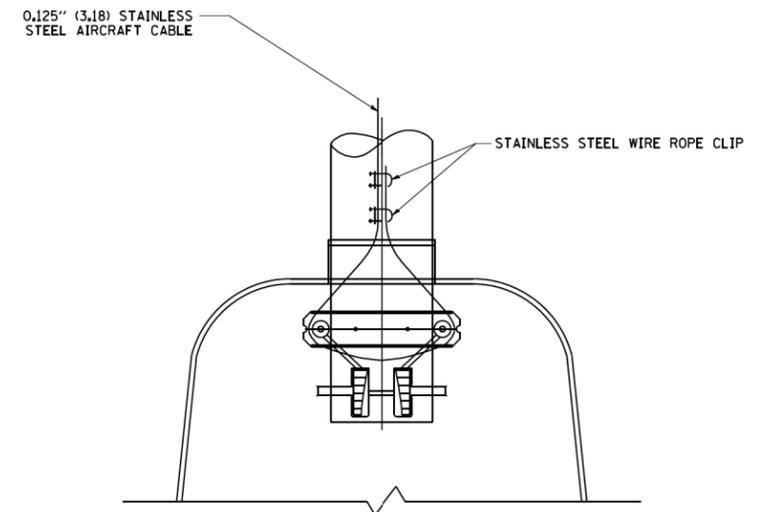
SIDE VIEW (TRUSS ARM)
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.



STAINLESS STEEL
U-BOLT HAYARD

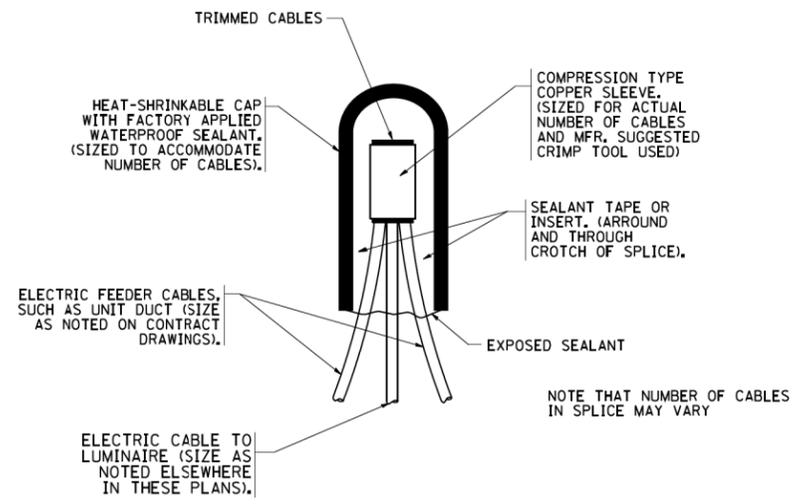


BOTTOM VIEW
N.T.S.

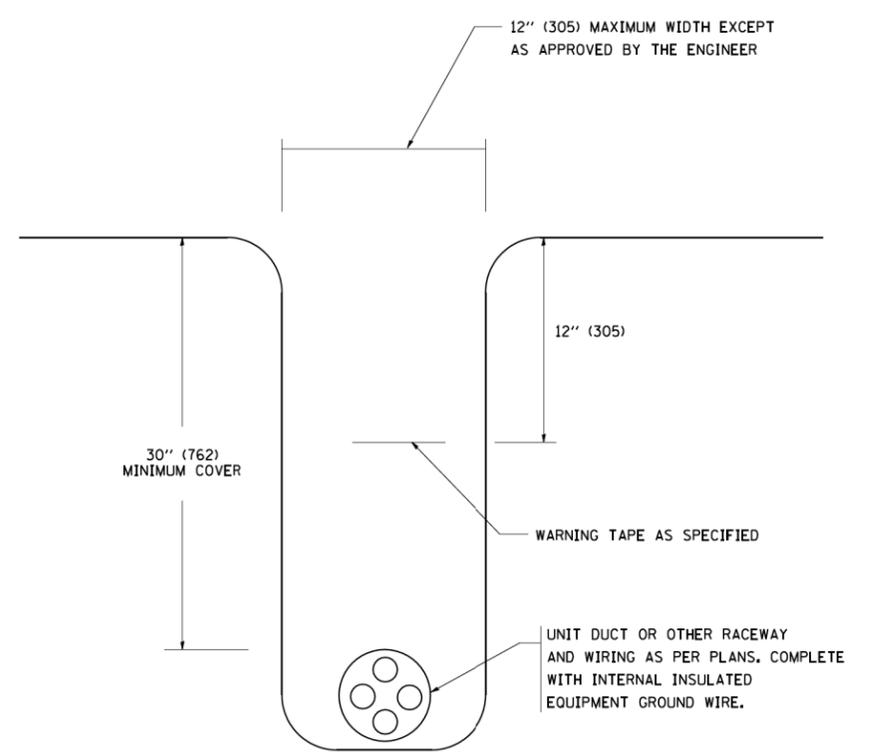
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

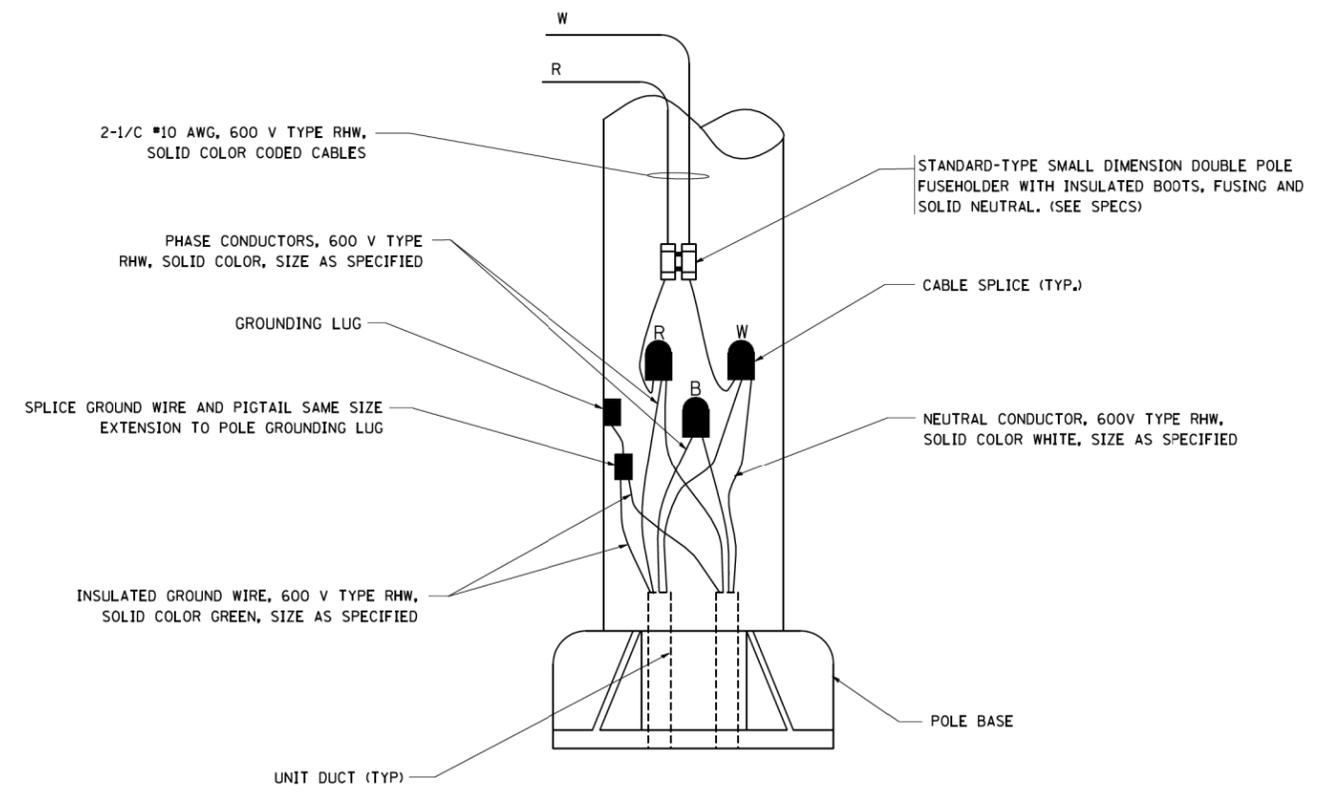
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| | PLOT SCALE = 50,000' / IN. PLOT DATE = 1/4/2008 | | | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | BE-701 | | CONTRACT NO. | |
| | | | | | | | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



TYPICAL SPLICE DETAIL
N.T.S.



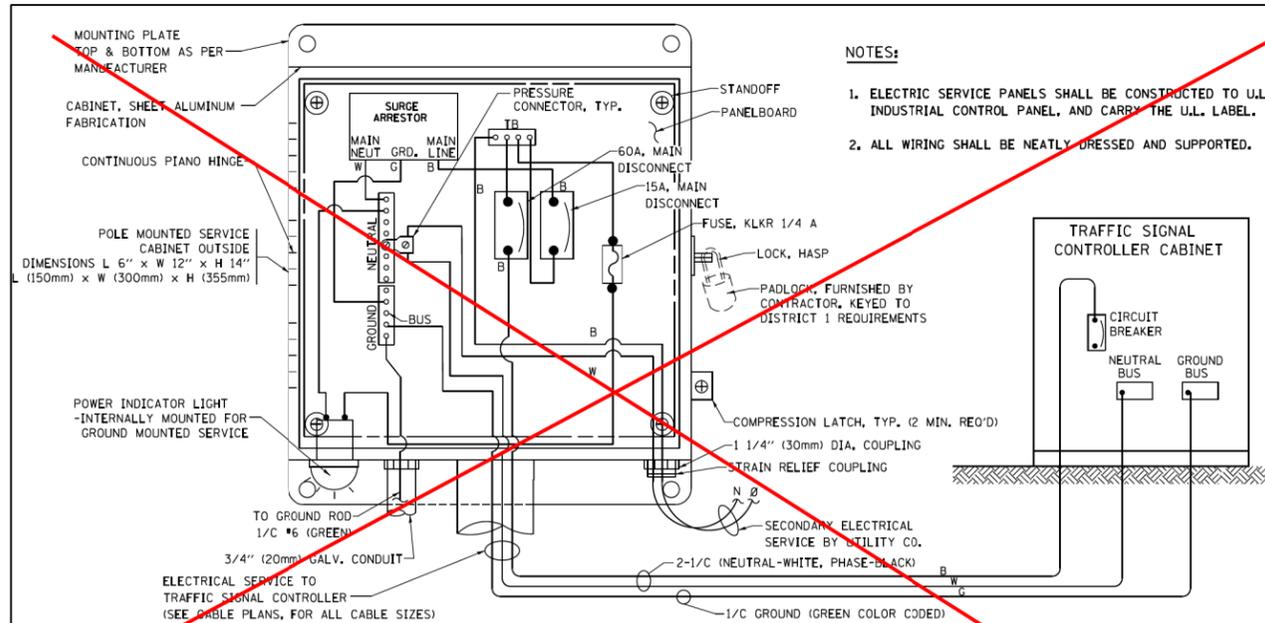
TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



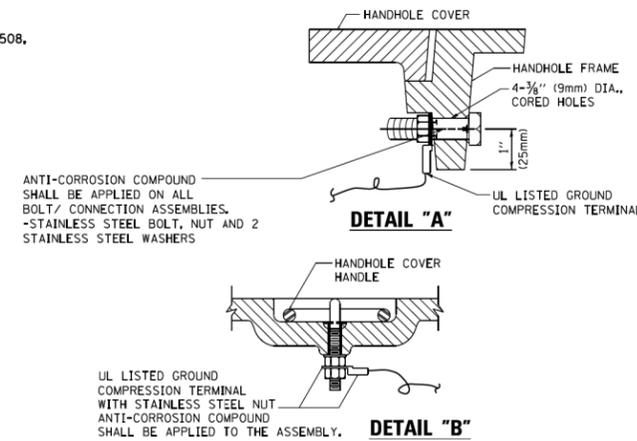
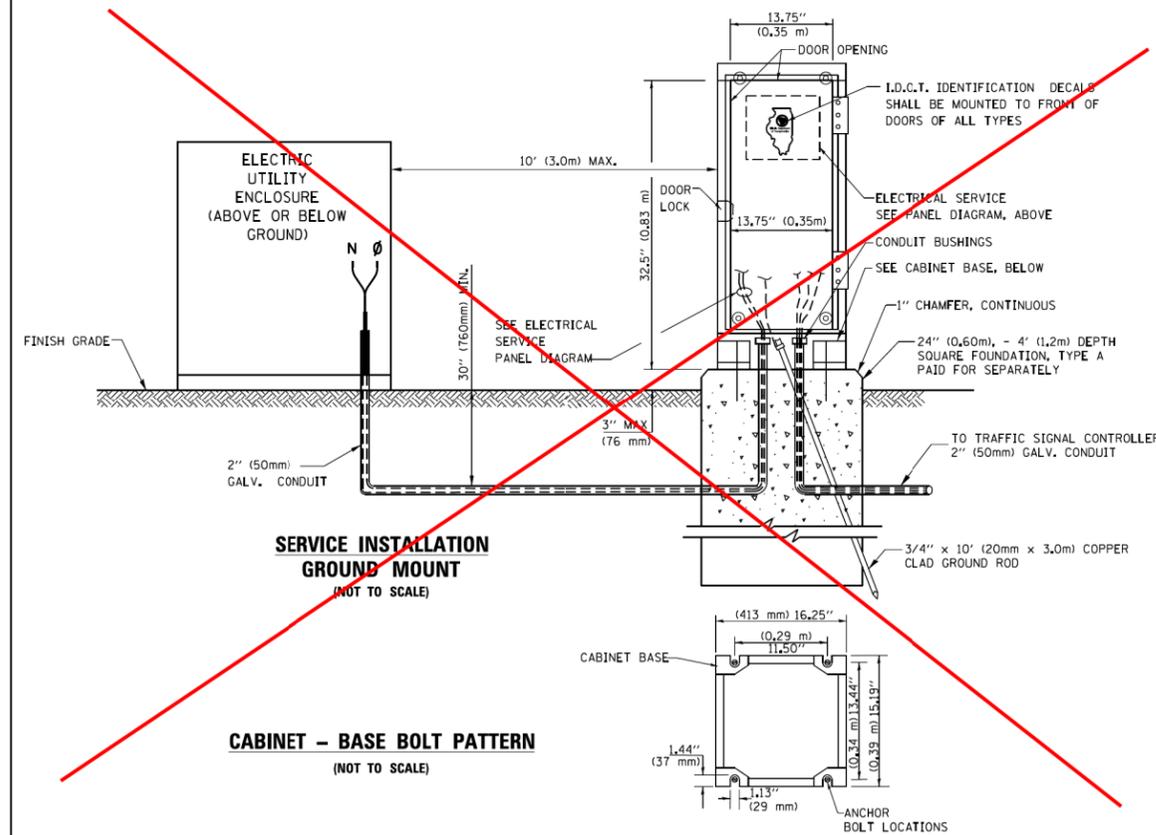
POLE WIRING DETAIL
N.T.S.

| | | | | | | | | | | | | |
|---|------------------------|--|--|-------------|---|---|-------------------------|---|---------|--------------|--------------|-----------|
| FILE NAME = W:\diststd\22x34\be702.dgn | USER NAME = gaglianobt | DESIGNED - DRAWN - CHECKED - DATE - | REVISOR - REVISIONS - REVISIONS - REVISIONS - | 08-08-03 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | MISC. ELECTRICAL DETAILS SHEET A | | F.A. RTE. = | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| PLOT SCALE = 50,000' / IN. | PLOT DATE = 1/4/2008 | DATE - | REVISIONS - | REVISIONS - | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | BE-702 | CONTRACT NO. | | |
| | | | | | | | | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

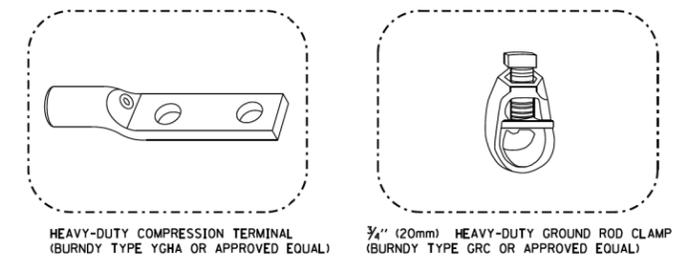
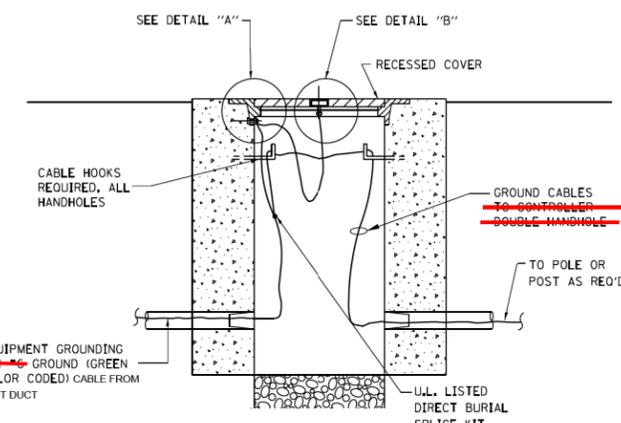
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| | USER NAME = #USER# | DESIGNED - DRAWN - CHECKED - DATE - | REVISOR - REVISIONS - REVISIONS - REVISIONS - | | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | IDOT STANDARD DETAIL | | F.A. RTE. = | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = #SCALE# | PLOT DATE = 8/11/2016 | DATE - | REVISIONS - | | REVISIONS - | SCALE: NONE | SHEET OF SHEETS | STA. TO STA. | 2015-039L | CONTRACT NO. 62A98 | |
| | | | | | | | | ILLINOIS FED. AID PROJECT | | | | |



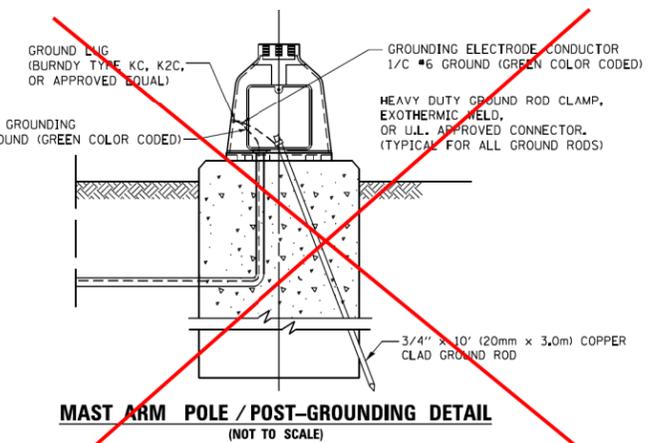
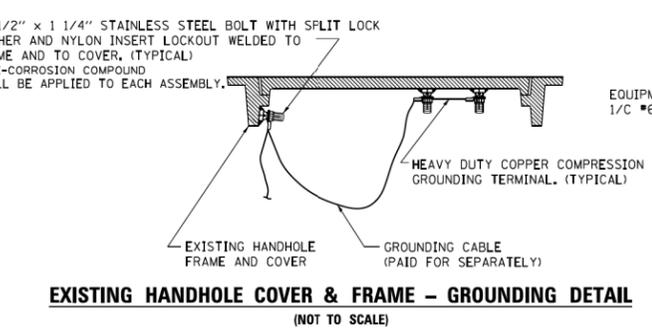
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE #12, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
 2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
 3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
 - 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
 - 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
 - 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



| | | | |
|---|---------------------|-----------------|----------------------|
| FILE NAME = | USER NAME = footemj | DESIGNED - DAD | REVISED - DAG 1-1-14 |
| ca:\pwork\pwork\footemj\d0188315\ts05.dgn | | DRAWN - BCK | REVISED - |
| PLOT SCALE = 50,0000 1/16" | | CHECKED - DAD | REVISED - |
| PLOT DATE = 1/13/2014 | | DATE - 10-28-09 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | |
|---|-------------|-------------|--------------|
| DISTRICT ONE | | | |
| STANDARD TRAFFIC SIGNAL DESIGN DETAILS | | | |
| SCALE: NONE | SHEET NO. 4 | OF 7 SHEETS | STA. TO STA. |

| | | | | |
|-----------------------|---------|----------|--------------|------------------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | TS-05 | | 84 | 73 |
| FED. ROAD DIST. NO. 1 | | ILLINOIS | | FED. AID PROJECT |
| CONTRACT NO. | | | | |

| | | | |
|--|-----------------------|-------------------|-----------|
| | USER NAME = #USER# | DESIGNED - HM | REVISED - |
| | | DRAWN - GJ | REVISED - |
| | PLOT SCALE = #SCALE# | CHECKED - HS | REVISED - |
| | PLOT DATE = 8/11/2016 | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

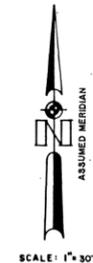
| | | | |
|-----------------------------|-------|----|--------------|
| IDOT STANDARD DETAIL | | | |
| SCALE: NONE | SHEET | OF | SHEETS |
| | | | STA. TO STA. |

| | | | | |
|--------------------|-----------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | | 84 | 73 |
| ILLINOIS | | FED. AID PROJECT | | |
| CONTRACT NO. 62A98 | | | | |

PLAT OF SURVEY

of part of the Northeast Quarter of Section 25, Township 38 North, Range 11 East of the Third Principal Meridian, in DuPage County, Illinois.

FA I-55
COUNTY OF DUPAGE
JOB NO. R-91-999-80
EXCESS PARCEL
1EX0388A, B, & C

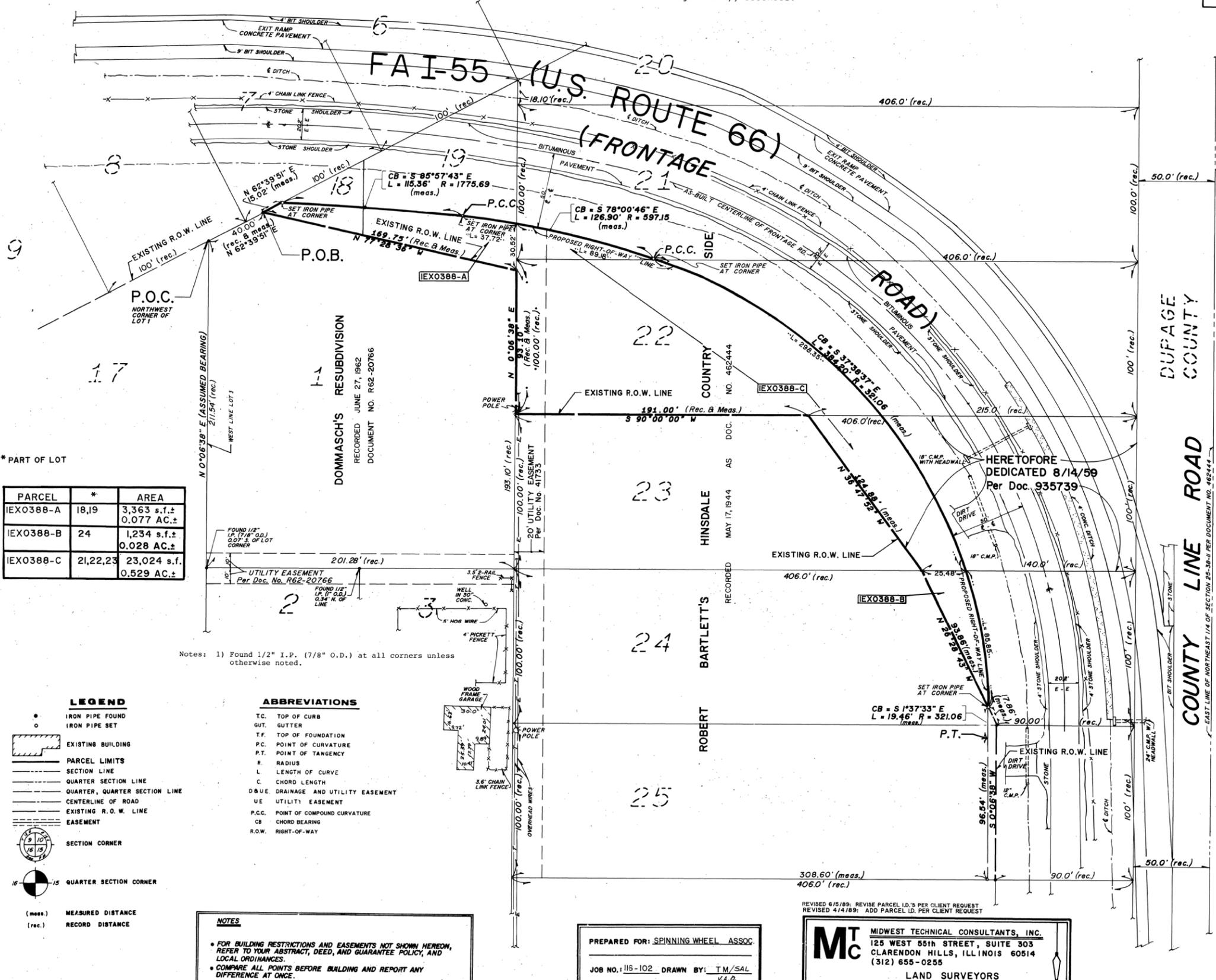


BASIS OF BEARINGS:
ASSUMED THE WEST LINE OF LOT 1 IN DOMMASCH'S RESUBDIVISION PER DOCUMENT NO. R62-20766 TO BE N 00° 06' 38" E

COMBINED LEGAL DESCRIPTION FOR EXCESS PARCEL 1EX0388 - A, B, & C
PROPOSED LEGAL DESCRIPTION FOR EXCESS R.O.W. PARCEL

That part of Interstate Highway 55 (U.S. Route 66) lying in the East Half of the Northeast Quarter of Section 25, Township 38 North, Range 11 East of the Third Principal Meridian described as follows: Commencing at the Northwest corner of Lot 1 in Dommasch's Resubdivision of Lots 18 and 19 (except that portion of said lots taken for highway) of Robert Bartlett's Hinsdale Country Side according to the plat thereof recorded June 27, 1962 as Document No. R62-20766; thence North 62 degrees 39 minutes 51 seconds East along the Northwestern line of said Lot 1 for a distance of 40.00 feet to the North-most corner of said Lot 1 for a distance of 113.36 feet to a point of a curve having a radius of 1775.69 feet; thence Easterly along said curve being concave to the South, having a radius of 1775.69 feet, having a chord bearing of South 85 degrees 57 minutes 43 seconds East for a distance of 113.36 feet to a point of compound curvature; thence Southeasterly along the arc of a curve being concave to the Southwest, having a radius of 597.15 feet, having a chord bearing of South 78 degrees 00 minutes 46 seconds East for a distance of 126.90 feet to a point of compound curvature; thence Southeasterly along the arc of a curve being concave to the Southwest, having a radius of 321.06 feet, having a chord bearing of South 37 degrees 38 minutes 37 seconds East for a distance of 384.20 feet to a point on the Westerly line of a public roadway heretofore dedicated as Interstate Highway 55 (U.S. Route 66); thence North 26 degrees 28 minutes 43 seconds West 93.56 feet to a point on the South line of Lot 23 in Robert Bartlett's Hinsdale Country Side, being a subdivision of the Southeast Quarter and part of the Southeast Quarter of the Northeast Quarter of Section 25, Township 38 North, Range 11 East of the Third Principal Meridian according to the plat thereof recorded May 17, 1944 as Document No. 462444, said point being 140.0 feet West of the Southeast corner of said Lot 23; thence the following (four) courses and distances along the Southerly line of said Interstate Highway 55:

- 1) North 36 degrees 47 minutes 52 seconds West 124.88 feet to a point on the North line of said Lot 23 being 215.0 feet West of the Northeast corner of said Lot 23; 2) thence South 90 degrees 00 minutes 00 seconds West along the North line of said Lot 23 a distance of 191.00 feet to the Northwest corner of said Lot 23; 3) thence North 0 degrees 06 minutes 38 seconds East along the West line of Lot 22 in said Robert Bartlett's Hinsdale Country Side 93.10 feet to the Northeast corner of said Lot 1 in Dommasch's Resubdivision; 4) thence North 77 degrees 28 minutes 36 seconds West along the North line of said Lot 1 a distance of 169.75 feet to the Place of Beginning; Total combined area of parcels 1EX 0388 A, B, & C contain 0.634 acres, more or less, all in DuPage County, Illinois.



* PART OF LOT

| PARCEL | * | AREA |
|-----------|----------|---------------------------|
| 1EX0388-A | 18,19 | 3,363 s.f.± 0.077 AC.± |
| 1EX0388-B | 24 | 1,234 s.f.± 0.028 AC.± |
| 1EX0388-C | 21,22,23 | 23,024 s.f. 0.529 AC.± |

Notes: 1) Found 1/2" I.P. (7/8" O.D.) at all corners unless otherwise noted.

- LEGEND**
- IRON PIPE FOUND
 - IRON PIPE SET
 - ▭ EXISTING BUILDING
 - ▬ PARCEL LIMITS
 - ▬ SECTION LINE
 - ▬ QUARTER SECTION LINE
 - ▬ CENTERLINE OF ROAD
 - ▬ EXISTING R.O.W. LINE
 - ▬ EASEMENT
 - ⊙ SECTION CORNER
 - ⊙ QUARTER SECTION CORNER
 - (mess.) MEASURED DISTANCE
 - (rec.) RECORD DISTANCE

- ABBREVIATIONS**
- T.C. TOP OF CURB
 - GUT. GUTTER
 - T.F. TOP OF FOUNDATION
 - P.C. POINT OF CURVATURE
 - P.T. POINT OF TANGENCY
 - R. RADIUS
 - L. LENGTH OF CURVE
 - C. CHORD LENGTH
 - DBUE DRAINAGE AND UTILITY EASEMENT
 - UE UTILITY EASEMENT
 - P.C.C. POINT OF COMPOUND CURVATURE
 - CB CHORD BEARING
 - R.O.W. RIGHT-OF-WAY

NOTES

- FOR BUILDING RESTRICTIONS AND EASEMENTS NOT SHOWN HEREON, REFER TO YOUR ABSTRACT, DEED, AND GUARANTEE POLICY, AND LOCAL ORDINANCES.
- COMPARE ALL POINTS BEFORE BUILDING AND REPORT ANY DIFFERENCE AT ONCE.

PREPARED FOR: SPINNING WHEEL ASSOC.
JOB NO. 115-102 DRAWN BY: T.M./SAL
V.A.O.

REVISED 6/5/89: REVISE PARCEL I.D.'S PER CLIENT REQUEST
REVISED 4/14/89: ADD PARCEL I.D. PER CLIENT REQUEST

MT
MIDWEST TECHNICAL CONSULTANTS, INC.
125 WEST 55th STREET, SUITE 303
CLARENDON HILLS, ILLINOIS 60514
(312) 655-0255
LAND SURVEYORS

REFERENCE ONLY

State of Illinois)
) S.S.
County of DuPage)

We, Midwest Technical Consultants, Inc., Illinois Registered Land Surveying Corporation No. 50, do hereby certify that the Plat shown hereon is a correct representation of a survey performed at and under our direction.

All dimensions shown in feet and decimal parts thereof.

Given under my hand and seal in Clarendon Hills, Illinois this 5th day of JUNE A.D., 1989.

Bruce A. Bruckelmeyer
Bruce A. Bruckelmeyer, President

Russell W. Olsen
Russell W. Olsen, R.L.S. #2718



| | | |
|------------------------|-------------------|-----------|
| USER NAME = \$USER\$ | DESIGNED - HM | REVISED - |
| PLOT SCALE = \$SCALE\$ | DRAWN - GJ | REVISED - |
| PLOT DATE = 8/11/2016 | CHECKED - HS | REVISED - |
| | DATE - 08-11-2016 | REVISED - |

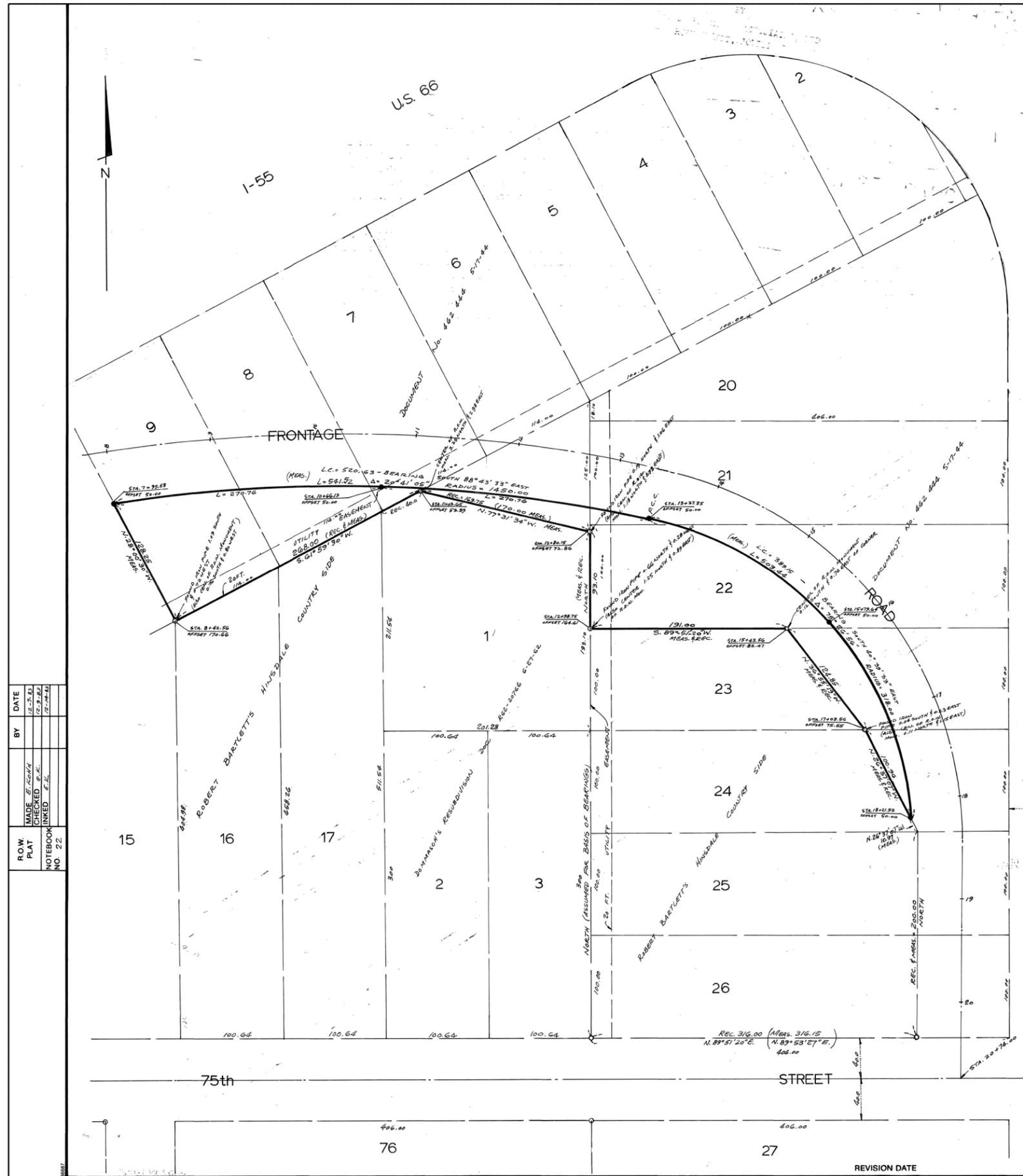
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF SURVEY

SCALE: NONE SHEET 12 OF 12 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | | 84 | 74 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

POS-1



LEGEND

SECTION CORNER. (9 10 / 16 15)

QUARTER SECTION CORNER. (16 / 15)

SECTION LINE

QUARTER SECTION LINE

QUARTER, QUARTER SECTION LINE

PLATTED LOT LINE

PROPERTY (DEED) LINE

APL APPARENT PROPERTY LINE

CENTERLINE

EXISTING RIGHT OF WAY LINE

PROPOSED RIGHT OF WAY LINE

PROPOSED EASEMENT

MEASURED DIMENSION

COMPUTED DIMENSION

RECORD DATA

EXISTING BUILDING

IRON PIPE OR ROD FOUND

CUT CROSS FOUND OR SET

THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

STAKING OR PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

June 1, 1993

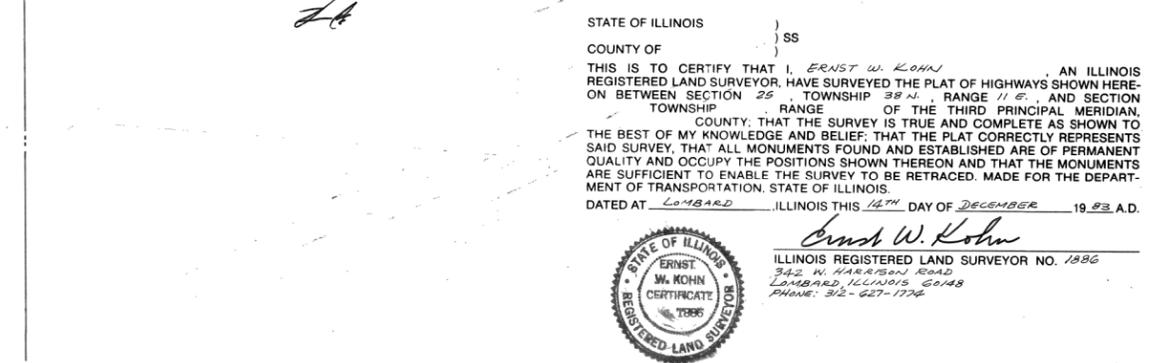
There is no lease Agreement LE:
This plat is of this date

STATE OF ILLINOIS }
COUNTY OF } SS

THIS IS TO CERTIFY THAT I, ERNST W. KOHN, AN ILLINOIS REGISTERED LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 25, TOWNSHIP 38 N., RANGE 11 E., AND SECTION 26, RANGE OF THE THIRD PRINCIPAL MERIDIAN, COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LOMBARD, ILLINOIS THIS 14TH DAY OF DECEMBER, 1993 A.D.

Ernst W. Kohn
ILLINOIS REGISTERED LAND SURVEYOR NO. 1986
342 W. HARRISON ROAD
LOMBARD, ILLINOIS 60148
PHONE: 312-657-1724



REFERENCE ONLY

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARCEL 387EX - FA.I. RTE. 55 & COUNTY LINE ROAD
DU PAGE COUNTY

SECTION 22-148 TO STATION
JOB NO. R-91-999-90
STATION TO STATION
SCALE: 1"=50' SHEET 1 OF 1

BUREAU OF LAND ACQUISITION
1000 PLAZA DRIVE
SCHAUMBURG, ILLINOIS 60196

| | |
|---------|----------|
| BY | DATE |
| MADE | 12-7-93 |
| CHECKED | 12-9-93 |
| NOTED | 12-14-93 |
| NO. 22 | |



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = *USER* | DESIGNED - HM | REVISED - |
| PLOT SCALE = *SCALE* | DRAWN - GJ | REVISED - |
| PLOT DATE = 8/11/2016 | CHECKED - HS | REVISED - |
| | DATE - 08-11-2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

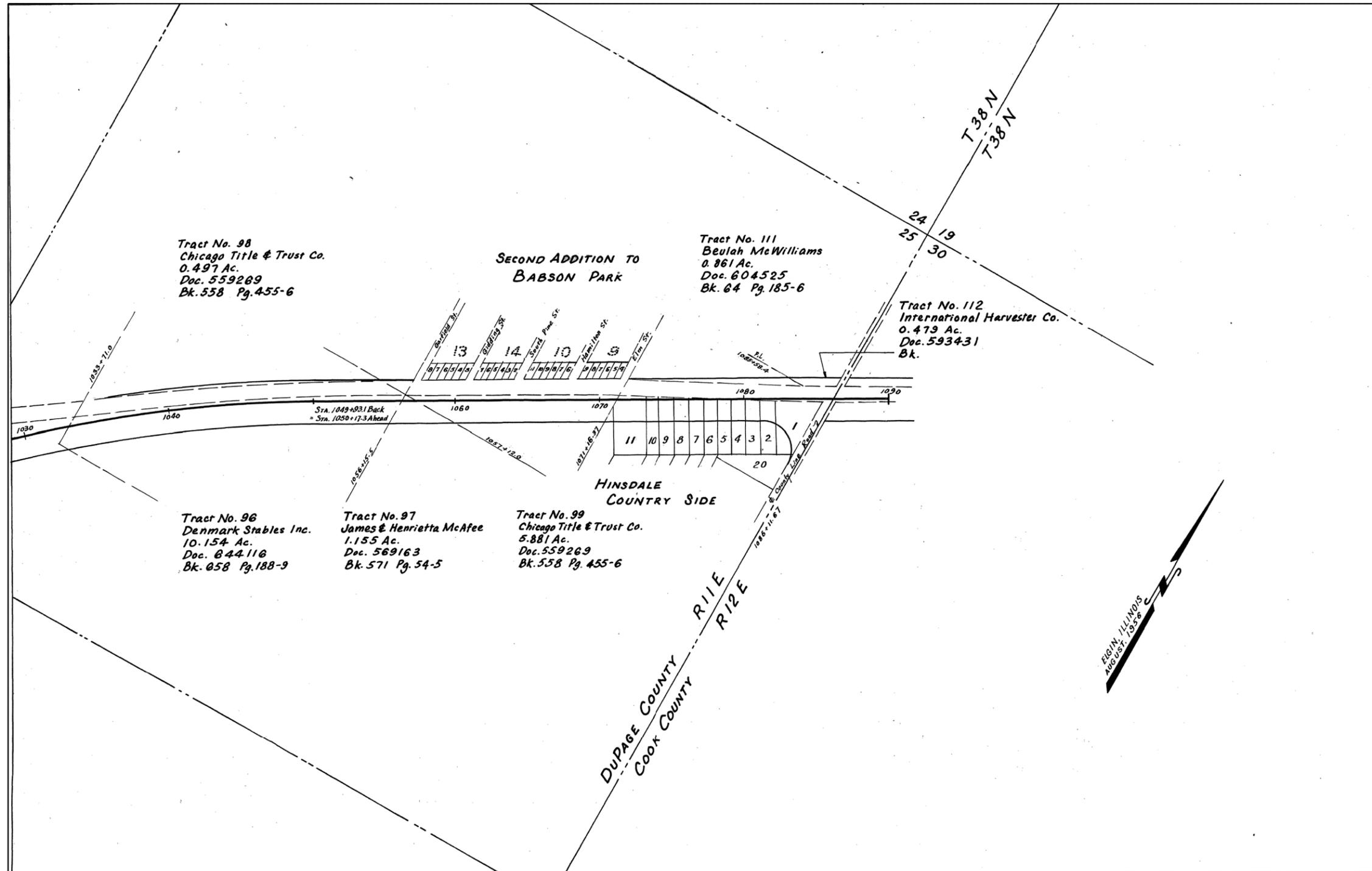
PLAT OF SURVEY

SCALE: NONE SHEET 12 OF 12 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | | 84 | 75 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62A98 | |

POS-2

| HINSDALE COUNTRY SIDE | | | | | | | |
|-----------------------|-----|------|----------------------|-------|----------|------|------|
| Tr.No. | Bk. | Lot. | Grantor | Acre | Doc. No. | Book | Page |
| 100 | | 12 | J. & F. Broach | 0.05 | 529096 | 520 | 159 |
| 101 | | 11 | Joseph Simonich | 0.974 | 534499 | 527 | 22 |
| 102 | | 10 | E. & C. Thompson | 0.499 | 527478 | 518 | 112 |
| 103 | | 9 | James & Marion Holik | 0.488 | 537336 | 530 | 414 |
| 104 | | 7,8 | E. & E. Fronck | 0.925 | 550082 | 547 | 3 |
| 105 | | 6 | A. & R. Bondi | 0.442 | 541711 | 536 | 72 |
| 106 | | 5 | J. & H. Kroner | 0.376 | 527471 | 518 | 110 |
| 107 | | 4 | H. & M. Mc Elroy | 0.360 | 527476 | 518 | 108 |
| 108 | | 3 | Fred & Anna Witt | 0.345 | 534768 | | |
| 109 | | 2 | August Janneck | 0.434 | 534769 | | |
| 110 | | 1 | Irving Kolaric | 1.321 | 528210 | | |
| 110A | | 20 | Robert Bartlett, Tr. | 0.006 | | | |

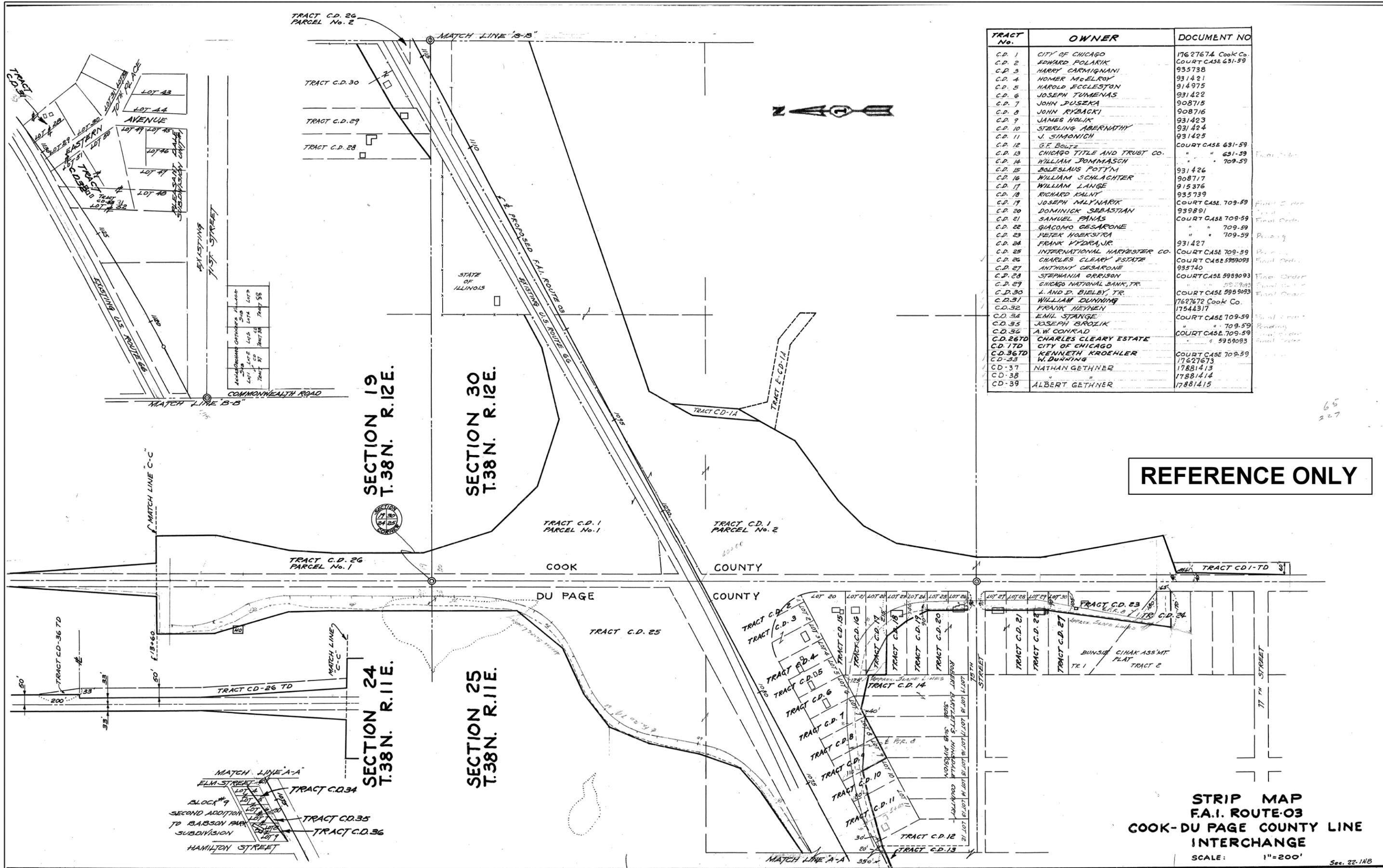


U. S. ROUTE 66
 F. A. RTE. 98 SEC. 430R-1
 STA. 1029+00 TO 1090+00
 DUPAGE COUNTY, ILLINOIS
 SCALE: 1" = 400'

SHEET NO. 21

REFERENCE ONLY

POS-5



| TRACT No. | OWNER | DOCUMENT NO |
|-----------|-----------------------------|--------------------|
| C.D. 1 | CITY OF CHICAGO | 17627674 Cook Co. |
| C.D. 2 | EDWARD POLARIK | COURT CASE 631-59 |
| C.D. 3 | HARRY CARMIGNANI | 935738 |
| C.D. 4 | HOMER McELROY | 931421 |
| C.D. 5 | HAROLD ECCLESTON | 914975 |
| C.D. 6 | JOSEPH TUMENAS | 931422 |
| C.D. 7 | JOHN JUSZKA | 908715 |
| C.D. 8 | JOHN RYBACKI | 908716 |
| C.D. 9 | JAMES HOLIK | 931423 |
| C.D. 10 | STERLING ABERNATHY | 931424 |
| C.D. 11 | J. SIMONICH | 931425 |
| C.D. 12 | G.F. BOLTZ | COURT CASE 631-59 |
| C.D. 13 | CHICAGO TITLE AND TRUST CO. | " " 631-59 |
| C.D. 14 | WILLIAM POMMASCH | " " 709-59 |
| C.D. 15 | BOLESLAUS POTYM | 931426 |
| C.D. 16 | WILLIAM SCHLACHTER | 908717 |
| C.D. 17 | WILLIAM LANGE | 915376 |
| C.D. 18 | RICHARD KALNY | 935739 |
| C.D. 19 | JOSEPH MLYNARIK | COURT CASE 709-59 |
| C.D. 20 | DOMINICK SEBASTIAN | 939891 |
| C.D. 21 | SAMUEL PANAS | COURT CASE 709-59 |
| C.D. 22 | GIACOMO GESARONE | " " 709-59 |
| C.D. 23 | PETER HOEKSTRA | " " 709-59 |
| C.D. 24 | FRANK KYDRA, JR. | 931427 |
| C.D. 25 | INTERNATIONAL HARVESTER CO. | COURT CASE 709-59 |
| C.D. 26 | CHARLES CLEARY ESTATE | COURT CASE 5959093 |
| C.D. 27 | ANTHONY GESARONE | 935740 |
| C.D. 28 | STEPHANIA ORRISON | COURT CASE 5989093 |
| C.D. 29 | CHICAGO NATIONAL BANK, TR. | " " 5959093 |
| C.D. 30 | L. AND D. BIELBY, TR. | COURT CASE 5989093 |
| C.D. 31 | WILLIAM DUNNING | 17627672 Cook Co. |
| C.D. 32 | FRANK HEYNER | 17544317 |
| C.D. 34 | EMIL STANGE | COURT CASE 709-59 |
| C.D. 35 | JOSEPH BROZLIK | " " 709-59 |
| C.D. 36 | A.W. CONRAD | COURT CASE 709-59 |
| C.D. 26TD | CHARLES CLEARY ESTATE | " " 4 5959093 |
| C.D. 17D | CITY OF CHICAGO | |
| C.D. 36TD | KENNETH KROEHLER | COURT CASE 709-59 |
| C.D. 33 | W. DUNNING | 17627673 |
| C.D. 37 | NATHANGETHNER | 17881413 |
| C.D. 38 | " | 17881414 |
| C.D. 39 | ALBERT GETHNER | 17881415 |

REFERENCE ONLY

**STRIP MAP
F.A.I. ROUTE-03
COOK-DU PAGE COUNTY LINE
INTERCHANGE**
SCALE: 1"=200'

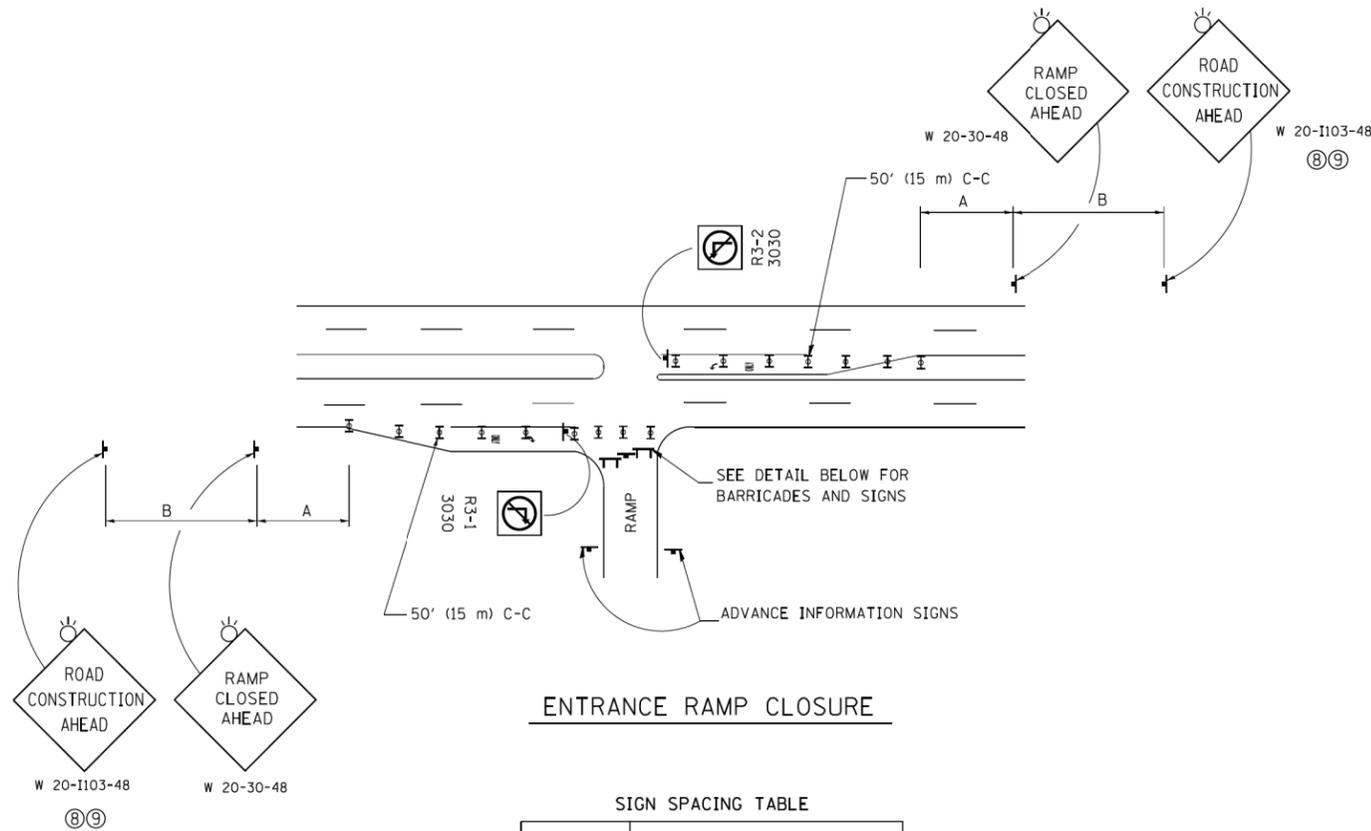
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|--|-----------------------|-------------------|-----------|
| | USER NAME = *USER* | DESIGNED - HM | REVISED - |
| | PLOT SCALE = *SCALE* | DRAWN - GJ | REVISED - |
| | PLOT DATE = 8/11/2016 | CHECKED - HS | REVISED - |
| | | DATE - 08-11-2016 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | |
|-----------------------|------------------------------------|
| PLAT OF SURVEY | |
| SCALE: NONE | SHEET 12 OF 12 SHEETS STA. TO STA. |

| | | | | |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 2015-039L | | 84 | 79 |
| | | | CONTRACT NO. 62A98 | |
| ILLINOIS FED. AID PROJECT | | | | |

POS-6

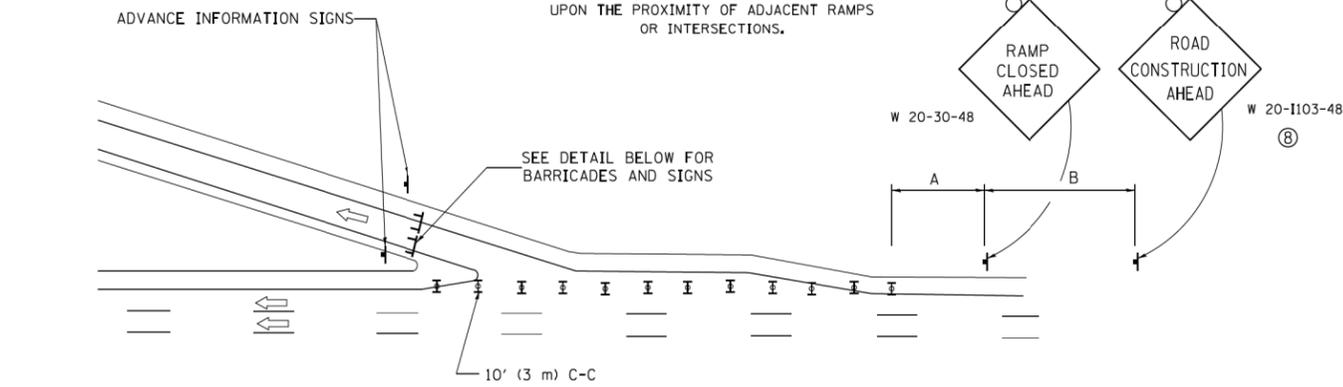


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

| FACILITY | DISTANCE BETWEEN SIGNS | |
|-------------------------|------------------------|------------------|
| | A | B |
| EXPRESSWAY >24 HOURS | 1000' (300 m) | 1500' (450 m) |
| EXPRESSWAY ≤24 HOURS | 500' (150 m) | 500' (150 m) |
| ARTERIAL 55 MPH | 500' (150 m) | 500' (150 m) |
| ARTERIAL 50-45 MPH | 350' (100 m) | 350' (100 m) |
| ARTERIAL <45 MPH | 200' (60 m) | 200' (60 m) |

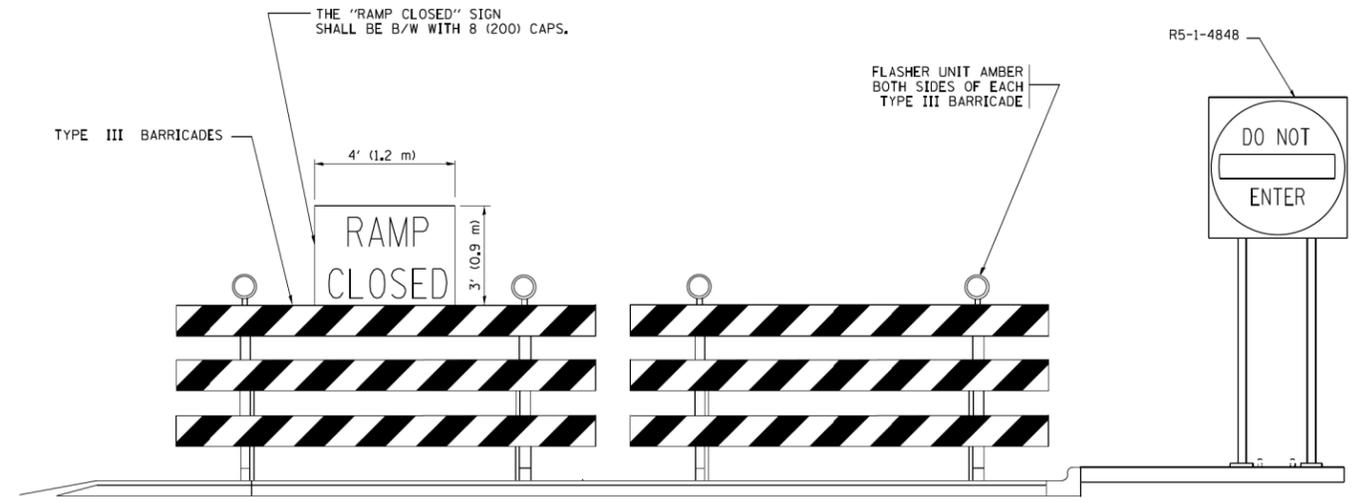
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

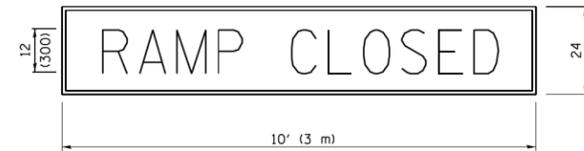
SYMBOLS

- ▬ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

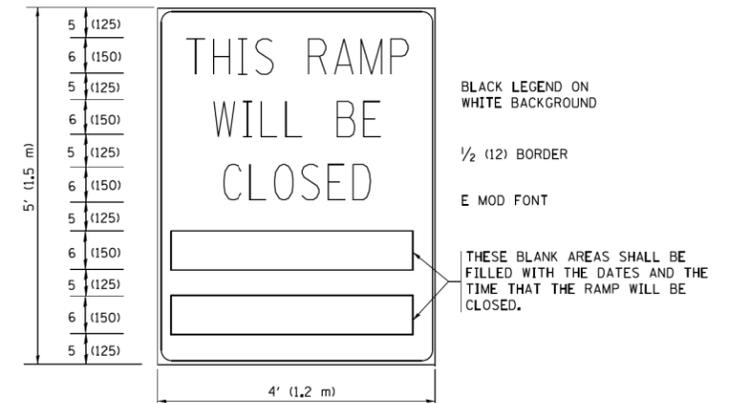
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

CM-1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE AND EXIT RAMP
CLOSURE DETAILS

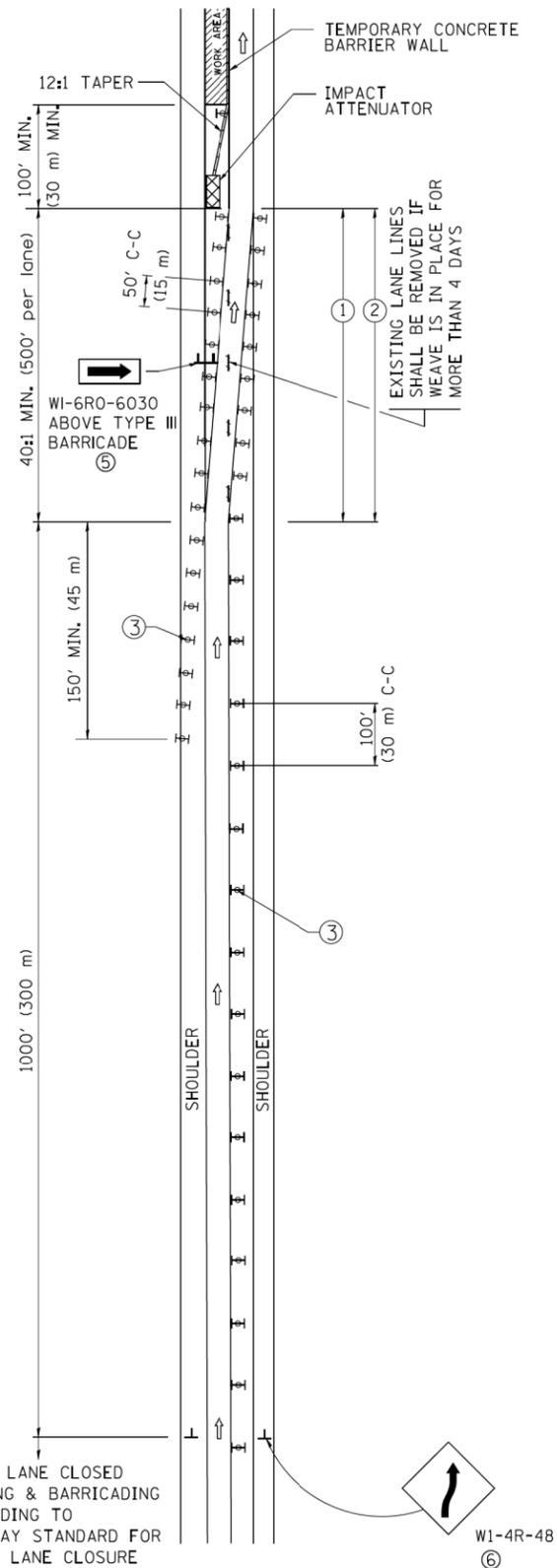
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------------------|--------------|-----------|
| VAR. | 2015-039L | | 84 | 80 |
| TC-08 | | CONTRACT NO. 62A98 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

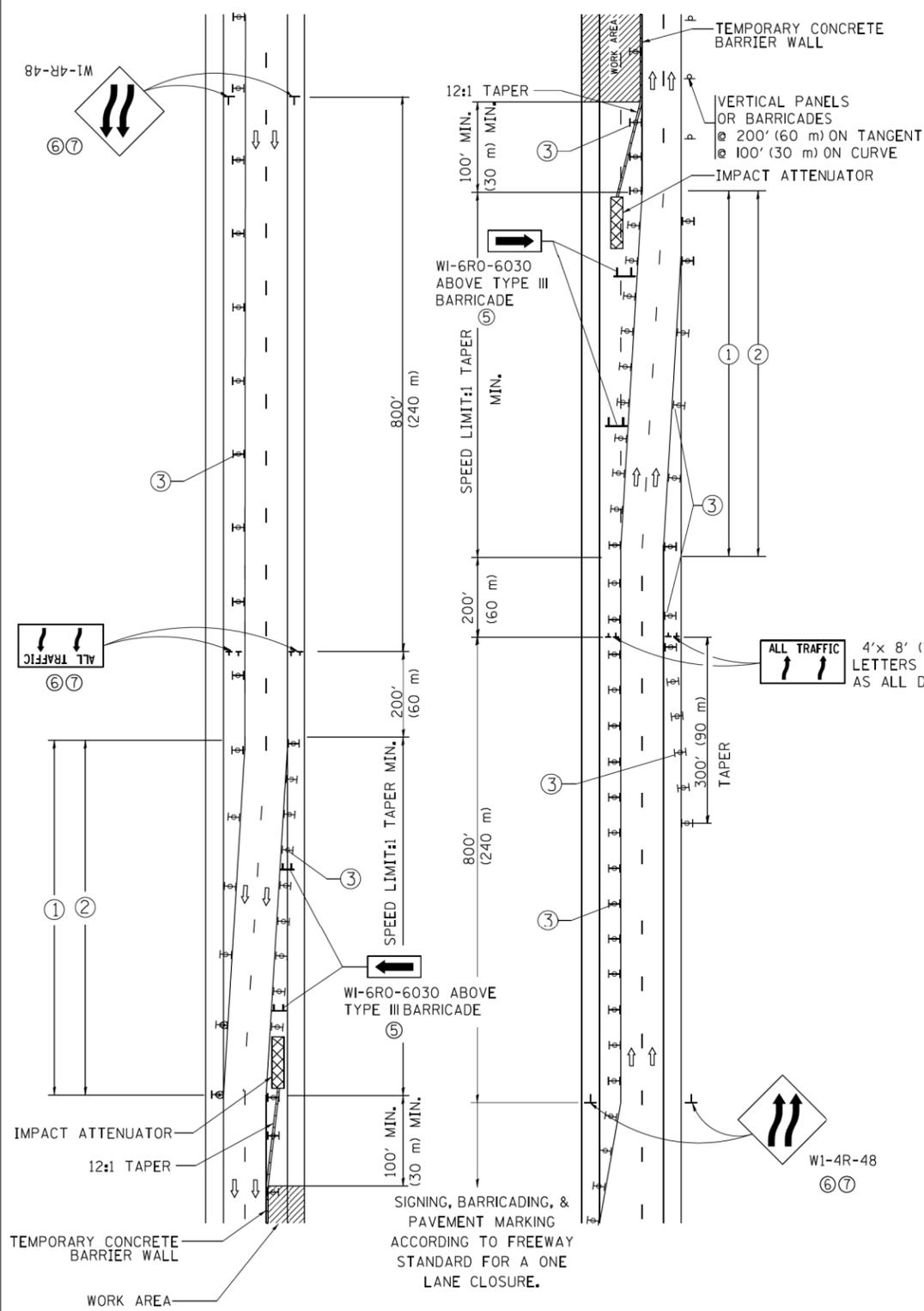
CW-1-District 1 Detail TC08.dgn

| | | | |
|---|----------------------------|----------------|---------------------|
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| ca:\pwork\pwork\footemj\d0108315\to08.dgn | | DRAWN - | REVISED - SPB 01-07 |
| | PLOT SCALE = 50.000' / in. | CHECKED - | REVISED - SPB 12-09 |
| | PLOT DATE = 7/8/2013 | DATE - 02-83 | REVISED - MD 06-13 |

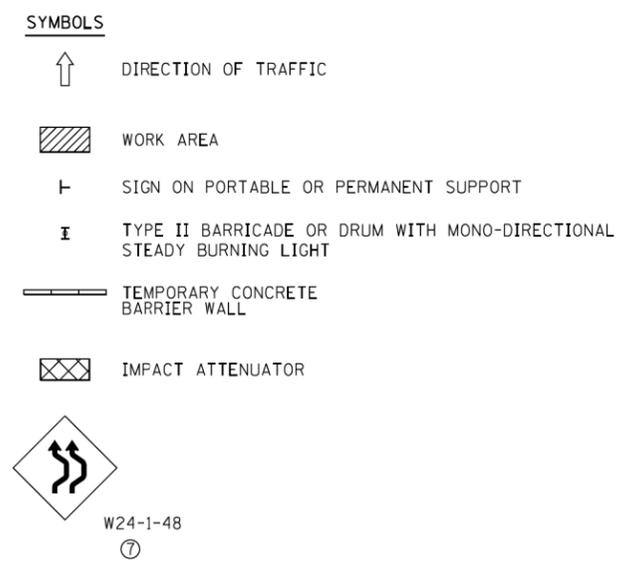
SINGLE LANE WEAVE



MULTI-LANE WEAVE



- ### GENERAL NOTES
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
 - CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
 - PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
 - ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
 - TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
 - WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
 - THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

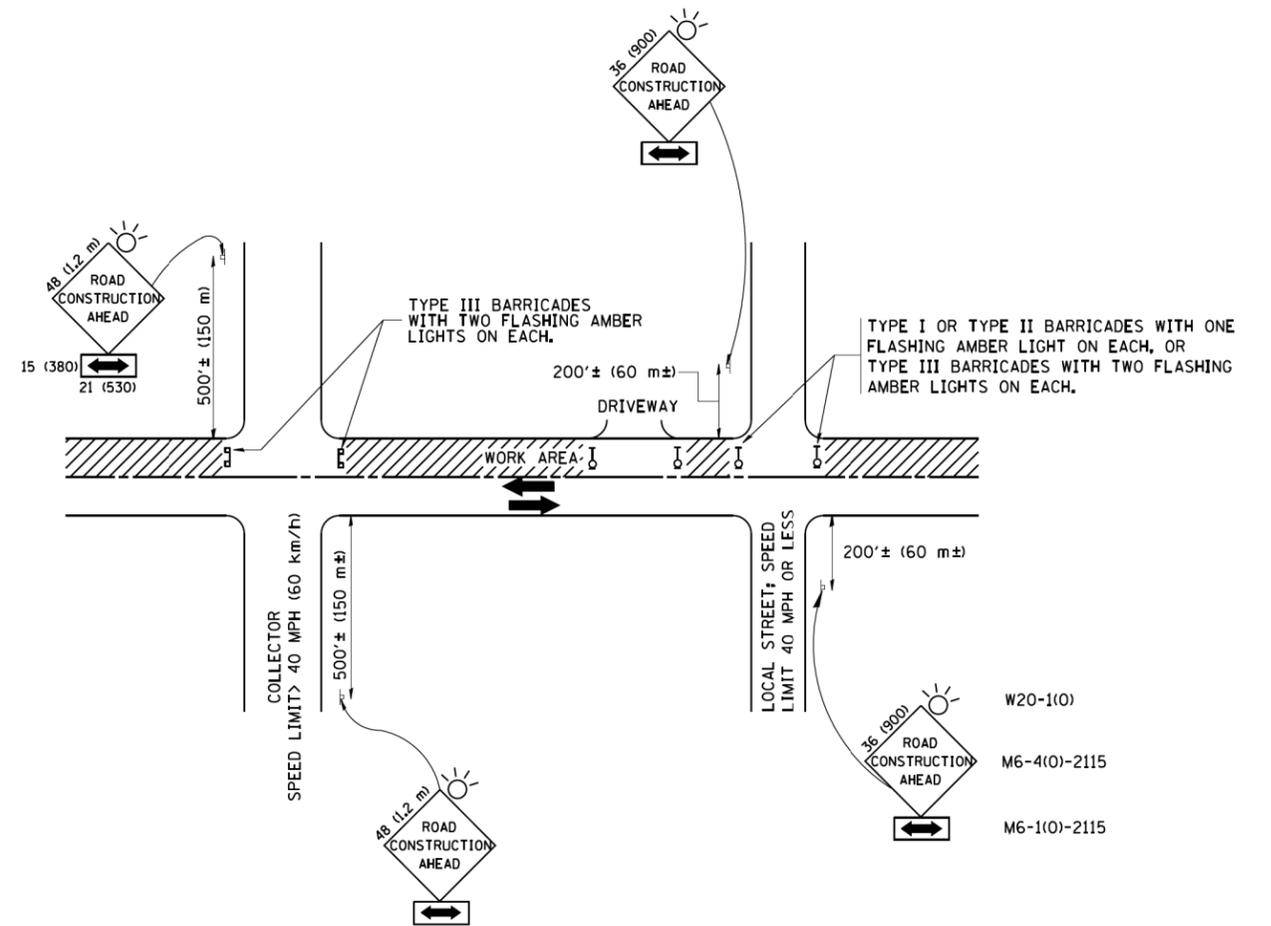


ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

CM-2-District 1 Detail TC09.dgn

| | | | | | | | | | | | | |
|--|---------------------|---------------------|---------------------|---|--|--|--|-------------------------|--------------|---|--------------|-----------|
| FILE NAME = | USER NAME = footemj | DESIGNED - DWS | REVISED - JAF 02-06 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ca:\p\work\p\dot\Footemj\d0108315\td09.dgn | DRAWN - | REVISED - SPB 01-07 | VAR. | | | | | 2015-039L | | 84 | 81 | |
| PLOT SCALE = 50.000' / in. | CHECKED - | REVISED - SPB 12-09 | TC-09 | | | | | CONTRACT NO. 62A98 | | | | |
| PLOT DATE = 7/1/2013 | DATE - 02-87 | REVISED - MD 06-13 | SCALE: NONE | | | | | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | |

CM-2



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

CM-3

CM-3-District 1 Detail TC10.dgn

| | | | |
|--|----------------------------|----------------|---------------------------------|
| FILE NAME = W:\diststd\22x34\td10.dgn | USER NAME = gaglianobt | DESIGNED - LHA | REVISED - J. OBERLE 10-18-95 |
| | | DRAWN - | REVISED - A. HOUSEH 03-06-96 |
| | PLOT SCALE = 50.000' / IN. | CHECKED - | REVISED - A. HOUSEH 10-15-96 |
| | PLOT DATE = 1/4/2008 | DATE - 06-89 | REVISED - T. RAMMACHER 01-06-00 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

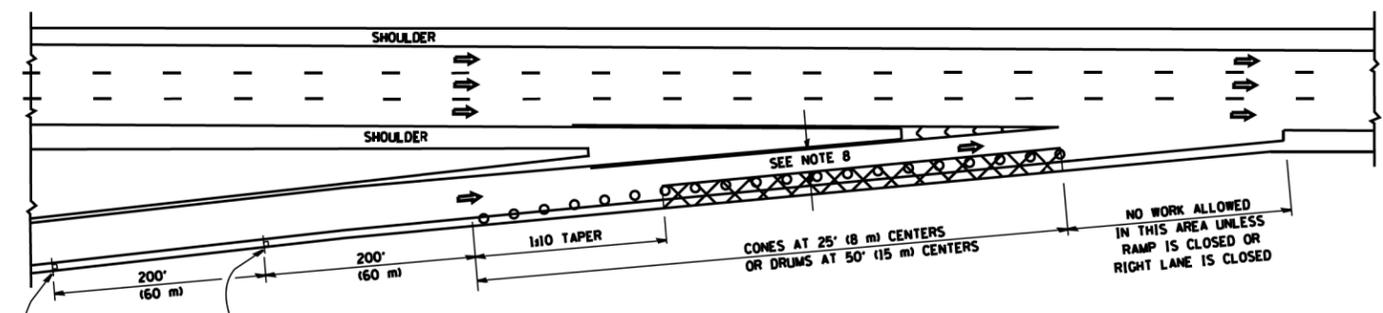
TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

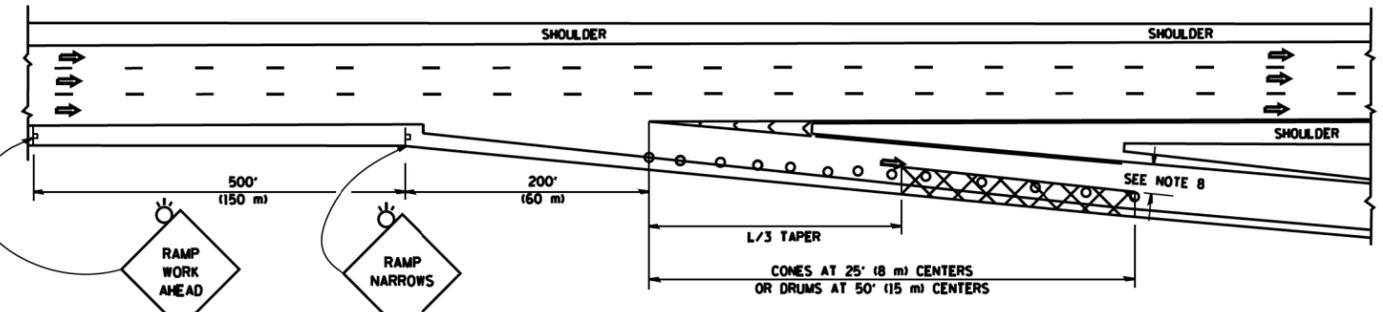
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------|--------------------|-----------|
| VAR. | 2015-039L | | 84 | 82 |
| TC-10 | | | CONTRACT NO. 62A98 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

PARTIAL RAMP CLOSURE DETAILS

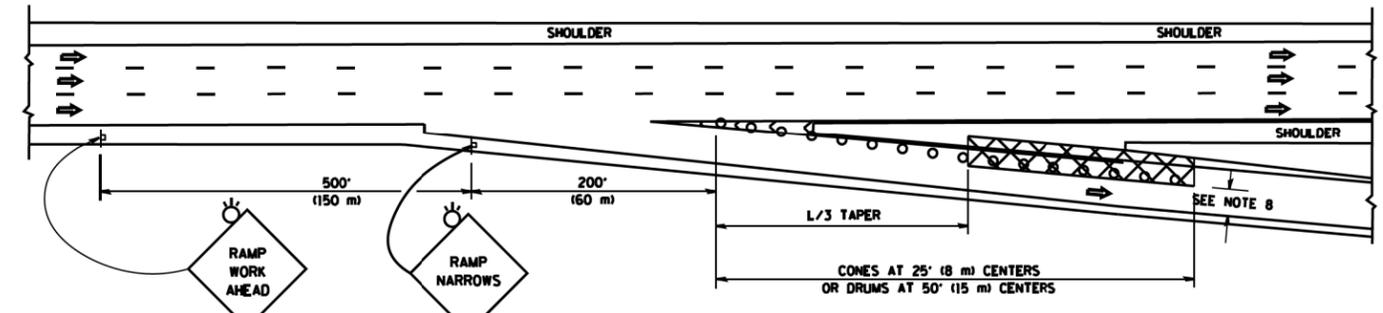
SHOULDER CLOSURE DETAILS



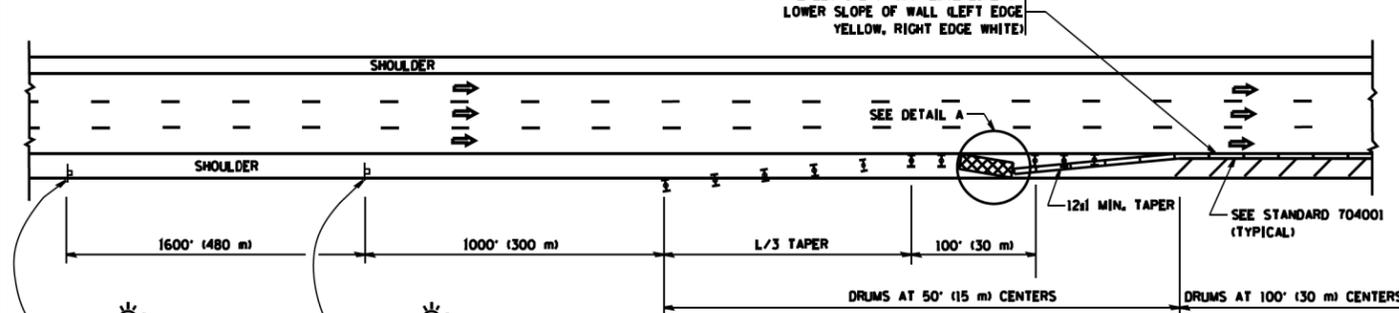
TYPICAL ENTRANCE RAMP



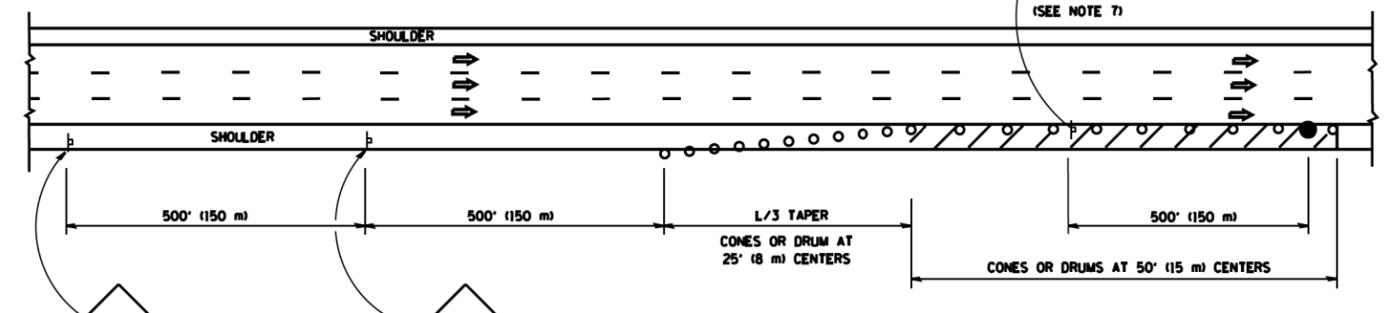
TYPICAL EXIT RAMP



TYPICAL EXIT RAMP



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



DETAIL "A" IMPACT ATTENUATOR, TEMPORARY (SEE NOTE 5)

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

| | |
|--|---------------------------------------|
| SPEED LIMIT | FORMULAS |
| 45 mph (80 km/h) OR GREATER | METRIC ENGLISH L=0.65(WNS) L=(WNS) |
| W = WIDTH OF OFFSET IN FEET (METERS) S = NORMAL POSTED SPEED MPH (KM/H) | |
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = c:\pwwork\pwwork\1\eyso\d0108315\tcl7.dgn
 USER NAME = eyso

DESIGNED -
 DRAWN - D.W.S.
 CHECKED -
 DATE - 11-96

REVISED - J.A.F. 12-06
 REVISED - S.P.B. 01-07
 REVISED - S.P.B. 12-09
 REVISED - M.D. 06-13

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
 SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

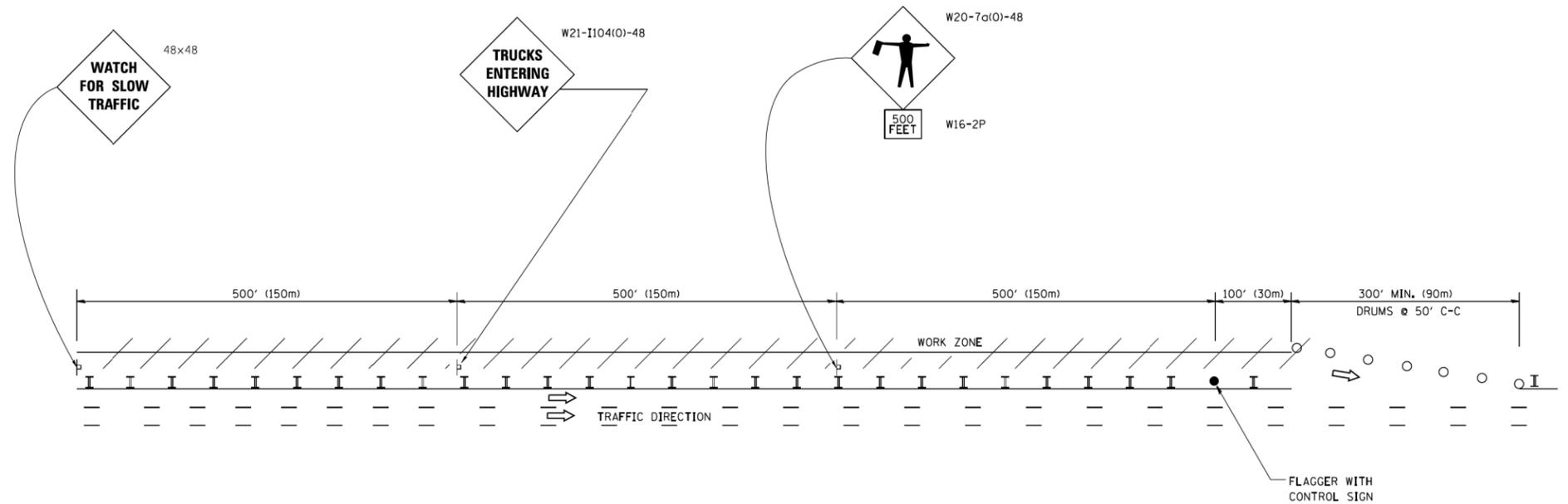
| | | | | |
|---|-----------|--------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | 2015-039L | | 84 | 83 |
| TC-17 | | CONTRACT NO. 62A98 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

CM-4

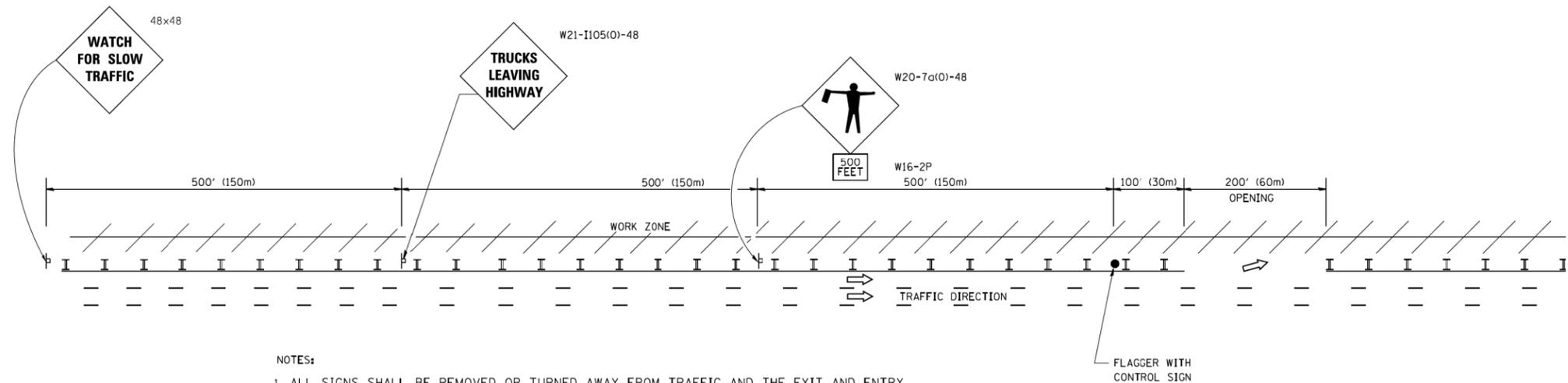
CM-4-District 1 Detail TC17.dgn

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMP.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

CM-5

| | | | |
|--|----------------------------|------------|------------------------|
| FILE NAME = | USER NAME = footemj | DESIGNED - | REVISED - J.A.F. 02-06 |
| ca:\pwork\pwork\footemj\d0108315\tcl18.dgn | | DRAWN - | REVISED - S.P.B. 01-07 |
| | PLOT SCALE = 50.000' / in. | CHECKED - | REVISED - S.P.B. 12-09 |
| | PLOT DATE = 7/8/2013 | DATE - | REVISED - M.D. 06-13 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------|--------------------|-----------|
| VAR. | 2015-039L | | 84 | 84 |
| TC-18 | | | CONTRACT NO. 62A98 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

CM-5-District 1 Detail TC18.dgn