

06-13-2025 LETTING ITEM 235
FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

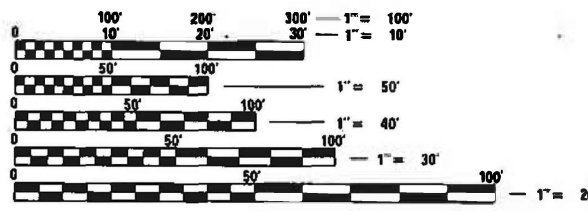
INTERSTATE 80	2023 ADT 83,600	POSTED SPEED 55 MPH
MOLINE EXPY (WESTBOUND)	2023 ADT 5400	POSTED SPEED 45 MPH
MOLINE EXPY (EASTBOUND)	2023 ADT 83,600	POSTED SPEED 45 MPH
LAGRANGE ROAD (NORTHBOUND)	2023 ADT 42,400	POSTED SPEED 45 MPH
LAGRANGE ROAD (SOUTHBOUND)	2023 ADT 44,300	POSTED SPEED 45 MPH

HIGHWAY FUNCTIONAL CLASSIFICATION

INTERSTATE 80	INTERSTATE
LAGRANGE ROAD	ARTERIAL

PROJECT IS LOCATED IN:

VILLAGE OF MOKENA
VILLAGE OF ORLAND PARK
VILLAGE OF TINLEY PARK



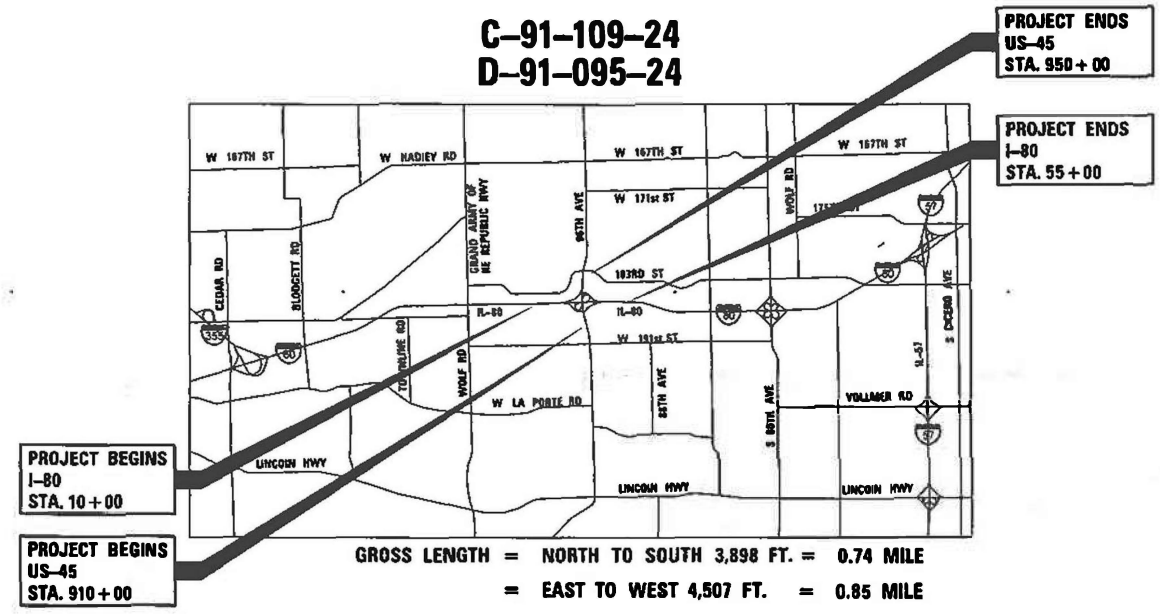
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZE PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811
MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL
MAINTENANCE CONTRACTOR LOCATES IDOT ELECTRICAL
EQUIPMENT AND UNDERGROUND CABLES
773-287-7672

PROJECT MANAGER: TONY GODINHO (847) 705-4442
PROJECT ENGINEER: TONY GODINHO (847) 705-4442

CONTRACT NO. 62W15

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**PROPOSED
HIGHWAY PLANS**
**FAI ROUTE I-80 AND
US ROUTE 45 (LAGRANGE RD)**
SECTION FAI 80 23 LIGHTING
PROJECT CR-GAUQ(946)
CARBON REDUCTION FUNDING PROJECT
HIGH MAST LIGHTING REPLACEMENT
WILL COUNTY



NET LENGTH = 1.59 MILE



Rashesh Patel
RASHESHKUMAR D. PATEL, P.E. DATE 03/20/2025
LICENSE NO.: 062-064617
EXPIRES: 11-30-2025
SHEETS: 1-2, 4-6, 12-42



Tim Heuer
TIMOTHY B. HEUER, P.E. DATE 03/20/2025
LICENSE NO.: 062-069545
EXPIRES: 11-30-2025
SHEETS: 3, 7-11, 43-49



SINGH
230 WEST MONROE STREET
SUITE 1400
CHICAGO, IL 60606
(312) 629-0240
ILLINOIS PROFESSIONAL DESIGN FIRM
REGISTRATION NO. 184001139-002

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED March 21st 2025
Regional Engineer
May 9 2025
Engineer of Design and Environment
May 9 2025
Director of Highways Project Implementation

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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5	SOQ-02	SUMMARY OF QUANTITIES
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IDOT DISTRICT ONE STANDARD DETAILS

STANDARD NO.	TITLE
BE-206	LIGHTING CONTROLLER, BASE MOUNTED. 480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION
BE-220	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT
BE-305	LIGHT POLE FOUNDATION, METAL
BE-400	ALUMINUM LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS SHEET A
BE-901	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS
TC-08	ENTRANCE AND EXIT RAMP CLOSURE DETAILS
TC-09	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULT-LANE WEAVE
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-12	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS
TC-17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
TC-22	ARTERIAL ROAD INFORMATION SIGN

GENERAL NOTES

1. SEVENTY-TWO (72) HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL JULIE AT 1-800-892-0123 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD.
2. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO PERFORM WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL COORDINATE WORK WITH UTILITIES IN ADVANCE OF WORKING IN THE VICINITY OF THEIR FACILITIES, AND ALLOW SUFFICIENT TIME FOR THEM TO PERFORM ADJUSTMENTS TO THEIR FACILITIES IN ACCORDANCE WITH THE CONTRACTOR'S SCHEDULE. COORDINATION EFFORTS SHALL BE INCLUDED IN THE COST OF THE CONTRACT BID PRICE.
6. THE CONTRACTOR MUST CALL THE IDOT ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE IDOT FACILITY CABLES.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
8. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT INCLUDING THE ROADSIDE DEVELOPMENT UNIT.
9. BARRICADES: TYPE I, TYPE II, AND TYPE III BARRICADES SHALL BE WEIGHTED IN A MANNER APPROVED BY THE MANUFACTURER SO THEY ARE NOT MOVED BY TRAFFIC.
10. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS, IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION 11.0.1 AND 1 OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
11. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP, AND SHOULDER CLOSURES AND 7 DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THE ADVANCE NOTIFICATION IS CALCULATED BASED ON WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.
12. THE CONTRACTOR SHALL TAKE EXTRA CARE IN GRADING AND EXCAVATING NEAR EXISTING TREES AS NOT TO CAUSE INJURY TO THE TRUNK, BRANCHES, OR ROOT SYSTEM. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
13. CAREFULLY MAINTAIN PRESENT GRADE WITHIN DRIPLINE OF ALL EXISTING TREES. PREVENT EXISTING TREES AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, BRUISING, SKINNING, OR DAMAGING OF BARK OR SMOTHERING OF TREES AND ITS ROOTS. DRIVING, PARKING, DUMPING, STOCKPILING, AND/OR STORAGE OF VEHICLES, EQUIPMENT, SUPPLIES, MATERIAL, OR DEBRIS ON TOP OF THE ROOT ZONES AND/OR DRIPLINE OF EXISTING TREES OR OTHER PLANT MATERIAL IS STRICTLY PROHIBITED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
14. THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: PROTECTED WETLAND - NO INTRUSION. THE SIGN(S) SHALL BE ATTACHED TO THE STAKES BY A METHOD APPROVED BY THE ENGINEER. THE SIGN(S) WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPEMENT ARCHITECT IN SCHAUMBURG, ILLINOIS. SCHEDULING THE PICKUP OF THE SIGNS CAN BE ARRANGED BY CONTACTING THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT AT (847)705-4171. WHEN WORK HAS BEEN COMPLETED, THE SIGN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PERIMETER EROSION BARRIER.
15. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@LLLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
16. WHEN WORKING ADJACENT TO THE ROAD AND UTILIZING DAILY LANE CLOSURES, DROP-OFFS ADJACENT TO THE TRAVEL LANES SHALL BE KEPT TO A MINIMUM. DROP-OFFS GREATER THAN (OR GREATER THAN OR EQUAL TO) 12" WILL NOT BE ALLOWED AT LOCATIONS WHERE THE DROP-OFF IS LOCATED WITHIN 8 FT OF THE EDGE OF THE TRAVEL LANE. THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE EXCAVATION REQUIRED FOR THE CONSTRUCTION DURING THE TIME THAT THE ADJACENT LANE IS CLOSED. AS NOTED ABOVE, PRIOR TO REOPENING THE LANE TO TRAFFIC THE CONTRACTOR SHALL PLACE SUFFICIENT MATERIAL TO REDUCE THE DROP-OFF TO LESS THAN 12". THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE AMOUNT OF WORK THAT CAN BE COMPLETED WITHIN THE TIME OF THE DAILY LANE CLOSURE. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO COMPLY WITH THIS REQUIREMENT.

IDOT HIGHWAY STANDARDS

STANDARD NO.	TITLE
280001-07	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS >= 45 MPH TO 55 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON TRAVERSABLE MEDIAN
701901-10	TRAFFIC CONTROL DEVICES

GEN-01

MODEL Default
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PLOT DATE = 5/2/2025	DATE - 03/14/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS,
DISTRICT ONE DETAILS AND GENERAL NOTES

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	2
CONTRACT NO. 62W15				
ILLINOIS		FED. AID PROJECT		

MAINTENANCE OF TRAFFIC GENERAL NOTES

1.

THE RECOMMENDED WORK ZONE STRATEGY DURING CONSTRUCTION CONSISTS OF THE FOLLOWING STANDARDS FOR WORK ON I-80 AND THE US 45 INTERCHANGE RAMP:

IDOT STD. 701106 - OFF-RD OPERATIONS, MULTILANE, MORE THAN 15’ AWAY

IDOT STD. 701400 - APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY

IDOT STD. 701401 - LANE CLOSURE, FREEWAY/EXPRESSWAY

IDOT STD. 701411 - MULTI-LANE, TRAFFIC CONTROL AT ENTRANCE OR EXIT RAMP

IDOT STD. 701428 - TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY / EXPRESSWAY

IDOT STD. 701901 - TRAFFIC CONTROL DEVICES

IDOT D1 STD. 8 - ENTRANCE AND EXIT RAMP CLOSURE DETAILS

IDOT D1 STD. 9 - SINGLE LANE WEAVE AND MULTI-LANE WEAVE

IDOT D1 STD. 12 - MULTI-LANE FREEWAY PAVEMENT MARKING DETAIL

IDOT D1 STD. 17 - TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
2.

THE RECOMMENDED WORK ZONE STRATEGY DURING CONSTRUCTION CONSISTS OF THE FOLLOWING STANDARDS FOR WORK ON US 45:

IDOT STD. 701101 - 15' TO 24" OFF-RD OPERATIONS, MULTILANE FROM PAVEMENT EDGE

IDOT STD. 701106 - OFF-RD OPERATIONS, MULTILANE, MORE THAN 15’ AWAY

IDOT STD. 701411 - MULTI-LANE, TRAFFIC CONTROL AT ENTRANCE OR EXIT RAMP

IDOT STD. 701421 - LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS 45 MPH TO 55 MPH

IDOT STD. 701601 - URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
3.

THE SPEED LIMIT IN THE WORK ZONE OF I-80 SHALL BE REDUCED FROM 65 MPH TO 55 MPH DURING CONSTRUCTION ACTIVITIES.

SHOULDER AND RAMP CLOSURES

4.

TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTICLES EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT IN LENGTH AT NIGHT.
5.

ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS
6.

FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
7.

THE FLAGGER AND FLAGGER SIGN ARE REQUIRED WHEN:
-FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD
-THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC
- THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' TO 200' IN ADVANCE OF THE WORKERS.

FREEWAY / EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS

8.

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 701.12
9.

EXITING THE WORK ZONE AT ANY PLACE OTHER THAN THE WORK ZONE EXIT OPENING WILL BE PROHIBITED.
10.

ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS.
11.

FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

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PLOT DATE = 4/22/2025	DATE - 4/22/2025	REVISED -

MAINTENANCE OF TRAFFIC GENERAL NOTES			
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	WILL	49	3
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

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				ROADWAY	LIGHTING
				0004	0021
20200100	EARTH EXCAVATION	CU YD	178	178	-
20400800	FURNISHED EXCAVATION	CU YD	57	57	-
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	407	407	-
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	200	200	-
25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75	-
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	46	46	-
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	46	46	-
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	46	46	-
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	300	300	-
28000305	TEMPORARY DITCH CHECKS	FOOT	200	200	-
67100100	MOBILIZATION	L SUM	1	1	-
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	135	135	-
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4	-
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1	-
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1	-
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	20	20	-
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1	-
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	6	6	-
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1	-
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	180	180	-



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PLOT DATE = 3/19/2025	DATE - 03/14/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	4
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

S00-01

REV-SEP

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PLOT DATE = 3/19/2025	DATE - 03/14/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	5
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				90% FED 10% STATE	90% FED 10% STATE
				ROADWAY	LIGHTING
				0004	0021
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	-	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	-	1
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	520	-	520
81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	560	-	560
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	12	-	12
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	6	-	6
81603081	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	8,507	-	8,507
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,310	-	1,310
81702220	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 350MCM	FOOT	1,200	-	1,200
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	23	-	23
82110009	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION I	EACH	15	-	15
82110027	LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E	EACH	12	-	12
83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	38	-	38
83600365	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	38	-	38
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	38	-	38
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1	-	1
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1	-	1
87900200	DRILL EXISTING HANDHOLE	EACH	4	-	4

S0Q-02

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	DRAWN - VN	REVISED -
PLOT SCALE = 2" / 1in.	CHECKED - RPYG	REVISED -
PLOT DATE = 3/19/2025	DATE = 03/14/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	6
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				90% FED 10% STATE	90% FED 10% STATE
				ROADWAY	LIGHTING
				0004	0021
X1400190	REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	54	-	54
X1400341	REMOVAL OF LUMINAIRE, SALVAGE	EACH	91		91
X1400402	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL), RADIO SCADA, FIBER OPTIC	EACH	1	-	1
X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	2,103	2,103	-
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	18	18	-
X8210007	LUMINAIRE, LED, ROADWAY, REPLACEMENT, OUTPUT DESIGNATION H	EACH	90	-	90
X8420111	REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	12	-	12
X8420502	REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	13	-	13
X8420510	REMOVAL OF TOWER FOUNDATION	EACH	13	-	13
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	-
X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	206	206	-
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	128	-	128
X8000003	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12	-	12

LEGEND

- 10' DIAM. RESTORATION AREA
2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)
10'x10' BORING PIT
CONDUIT DIRECT BORE
- PR LIGHTING UNIT

PAY ITEM DESCRIPTION

	QTY	UNIT
20200100 EARTH EXCAVATION	178	CU YD
20400800 FURNISHED EXCAVATION	57	CU YD
21101505 TOPSOIL EXCAVATION AND PLACEMENT	407	CU YD
21101625 TOPSOIL FURNISH AND PLACE, 6"	200	SQ YD
25000210 SEEDING, CLASS 2A	0.75	ACRE
25000400 NITROGEN FERTILIZER NUTRIENT	46	POUND
25000500 PHOSPHORUS FERTILIZER NUTRIENT	46	POUND
25000600 POTASSIUM FERTILIZER NUTRIENT	46	POUND
28000250 TEMPORARY EROSION CONTROL SEEDING	300	POUND
28000305 TEMPORARY DITCH CHECKS	200	FOOT
X2511630 EROSION CONTROL BLANKET (SPECIAL)	2,440	SQ YD

NOTES

- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE AND RELATED RESTORATION OUTSIDE OF THE AREAS SHOWN IN THE PLANS UNLESS APPROVED BY THE ENGINEER.
- RESTORATION AREAS INCLUDE THE DISTURBANCE TO THE EARTH BASED ON WORK REQUIRED TO INSTALL THE PROPOSED UNIT DUCT (2 FT WIDE AND 3 FT DEPTH TRENCH, UNLESS OTHERWISE NOTED), LIGHT POLE FOUNDATIONS, BORE PITS EXCAVATION (3 FT DEPTH), EXISTING TOWER RESTORATION, OR EXCAVATION FOR THE PROPOSED LIGHTING CONTROLLER (DEPTH PER IDOT D1 STANDARDS). RESTORATION AREAS INCLUDE SEEDING, NUTRIENTS, AND EROSION CONTROL BLANKET AS REQUIRED.
- FURNISHED EXCAVATION TO BE USED TO FILL THE HOLES CREATED BY THE REMOVAL OF THE EXISTING TOWERS AND LIGHTING CONTROLLERS.
- NOMINAL QUANTITIES ARE PROVIDED FOR TOPSOIL FURNISH AND PLACE ", TEMPORARY EROSION CONTROL SEEDING, AND TEMPORARY DITCH CHECKS. THESE ITEMS ARE PER THE DIRECTION OF THE ENGINEER.

MATCHLINE STA. 19+70

EB I-80 (MOLINE EXPY)

WB I-80 (MOLINE EXPY)

MATCHLINE STA. 29+00

MATCHLINE STA. 19+70

MATCHLINE STA. 121+15

SCALE IN FEET

EX CABLE IN DUCT (TYP)

PR LUMINERE REPLACEMENT (TYP)

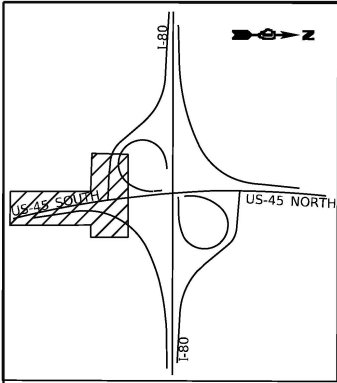
EC-01

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATIONUS 45 AT I-80 LIGHTING IMPROVEMENTS
EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 50'

SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	7
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				



LEGEND

10' DIAM. RESTORATION AREA

2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)

10'x10' BORING PIT

CONDUIT DIRECT BORE

PR LIGHTING UNIT

8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

USER NAME = Roadway	DESIGNED - AMS	REVISED -
	DRAWN - AMS	REVISED -
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PLOT DATE = 3/11/2025	DATE - 3/11/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 AT I-80 LIGHTING IMPROVEMENTS
EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 50' SHEET 2 OF 5 SHEETS STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	8
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

EC-02

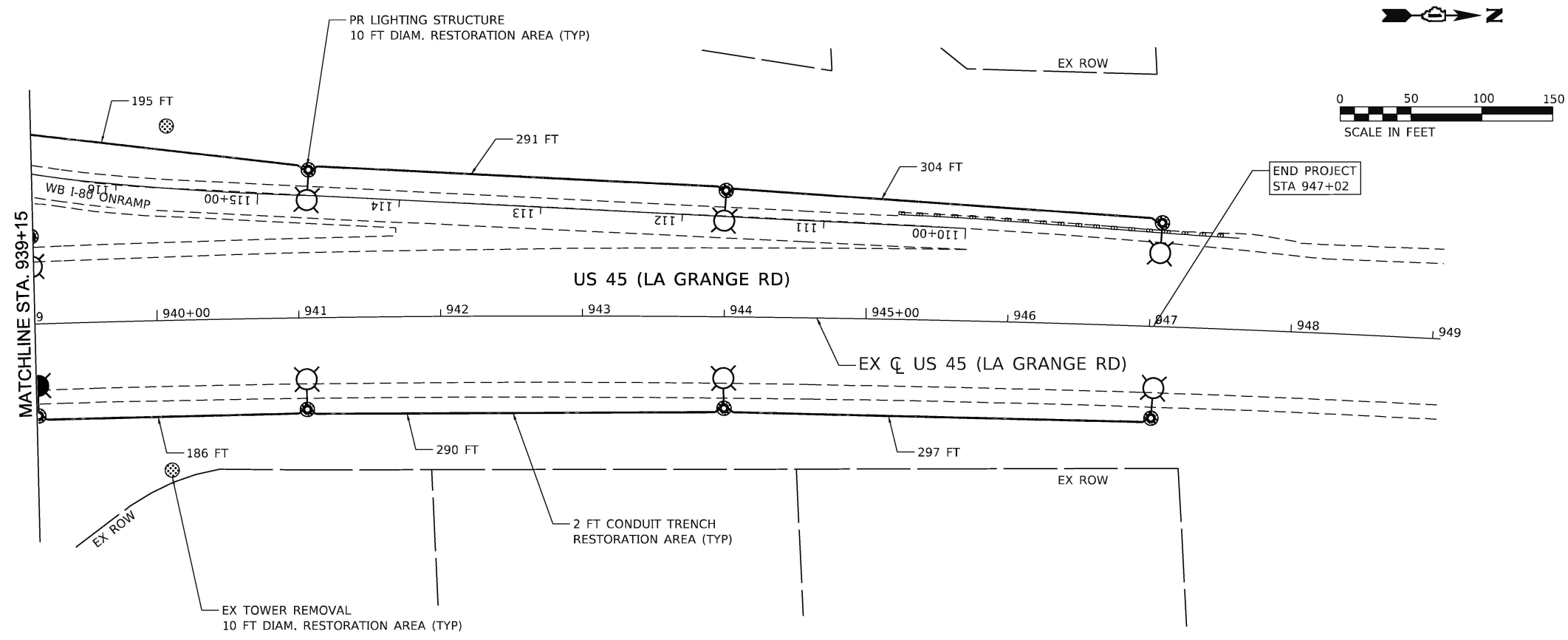
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- 10' DIAM. RESTORATION AREA

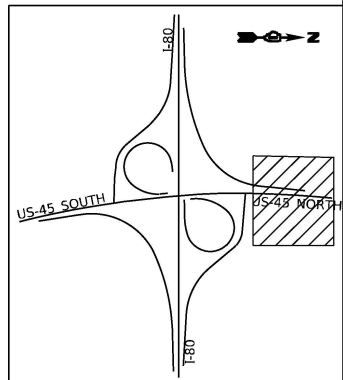
2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)

10'x10' BORING PIT

CONDUIT DIRECT BORE
- PR LIGHTING UNIT



EC-04



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8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 AT I-80 LIGHTING IMPROVEMENTS
EROSION AND SEDIMENT CONTROL PLAN

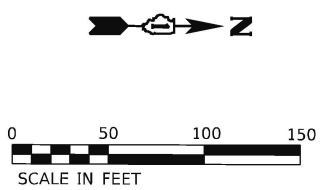
SCALE: 1" = 50'

SHEET 4 OF 5 SHEETS

STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	10
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

MATCHLINE
STA. 522+50



MATCHLINE STA. 37+50

MATCHLINE STA. 227+70

MATCHLINE STA. 45+00

PR LUMINERE REPLACEMENT (TYP)

EX CABLE IN DUCT (TYP)

RAMP A

RAMP F

RAMP E

EX C I-80

EB I-80 (MOLINE EXPY)

WB I-80 (MOLINE EXPY)

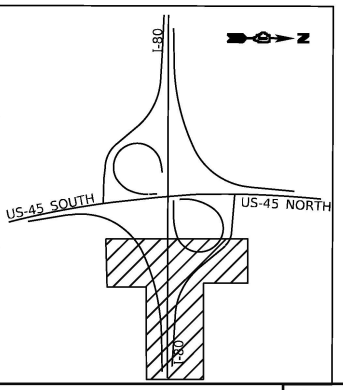
EB I-80 (MOLINE EXPY)

WB I-80 (MOLINE EXPY)

EX C I-80

LEGEND

- 10' DIAM. RESTORATION AREA
- 2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)
- 10'x10' BORING PIT
- CONDUIT DIRECT BORE
- PR LIGHTING UNIT



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DRAWN - AMS	REVISIED -	
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PLOT DATE = 3/11/2025	DATE - 3/11/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 AT I-80 LIGHTING IMPROVEMENTS
EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 50'

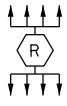





















SHEET 5 OF 5 SHEETS

STA. TO STA.

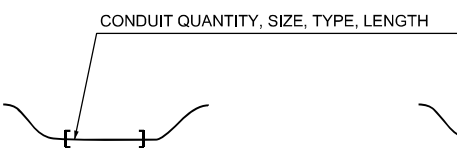
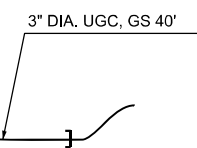
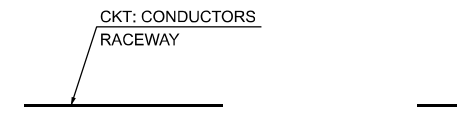
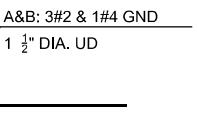
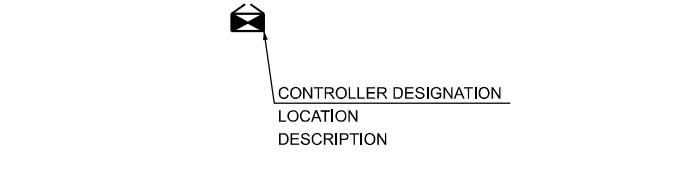
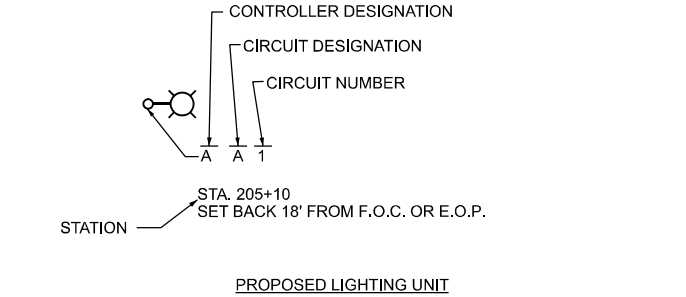
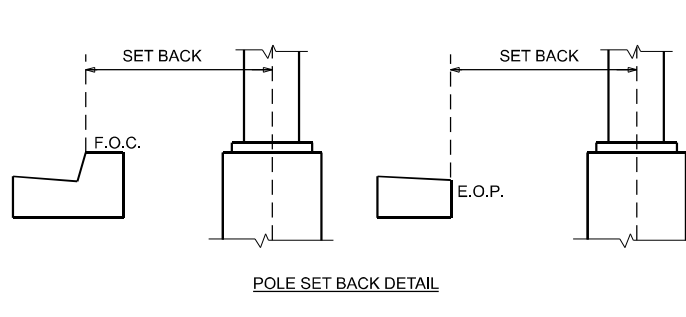
FA I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	11
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

EC-05

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LIGHTING AND ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING IDOT HIGH MAST LIGHTING TOWER AND FOUNDATION TO BE REMOVED, NO SALVAGE. LUMINAIRES REMOVED, SALVAGE
	EXISTING IDOT LIGHTING UNIT TO REMAIN
	PROPOSED IDOT LIGHTING UNIT MOUNTED ON BREAKAWAY DEVICE METAL FOUNDATION, 15" BOLT CIRCLE, 10" X 8", 47.5 FT M.H., .15 FT MAST ARM, LUMINAIRE TO BE LED, HORIZONTAL MOUNT, OUTPUT DESIGNATION H, 27K LUMENS MINIMUM (240 VAC)
	PROPOSED IDOT LIGHTING UNIT MOUNTED ON BREAKAWAY DEVICE METAL FOUNDATION, 15" BOLT CIRCLE, 10" X 8", 47.5 FT M.H., .15 FT MAST ARM, LUMINAIRE TO BE LED, HORIZONTAL MOUNT, OUTPUT DESIGNATION I, 36K LUMENS MINIMUM (240 VAC)
	REMOVE EXISTING LUMINAIRE, SALVAGE. INSTALL LUMINAIRE SAFETY CABLE AND LED LUMINAIRE (HORIZONTAL MOUNT, OUTPUT DESIGNATION H, 27K LUMENS MINIMUM) ON EXISTING IDOT GROUND MOUNTED LIGHT POLE AND MAST ARM, REPLACE THE EXISTING POLE WIRES, ADD GROUND WIRE AND REPLACE FUSEHOLDERS AND FUSES PER LED LUMINAIRE REPLACEMENT PAY ITEM
	EXISTING UNDERPASS LUMINAIRE TO BE REMOVED, NO SALVAGE
	PROPOSED UNDERPASS LED LUMINAIRE, SUSPENDED MOUNTED, OUTPUT DESIGNATION E, 13.5K LUMENS MINIMUM
	EXISTING JUNCTION BOX TO BE REMOVED
	EXISTING JUNCTION BOX TO BE REMAIN
	PROPOSED JUNCTION BOX, SIZE AND TYPE AS NOTED
	EXISTING HANDHOLE TO BE REMOVED
	EXISTING IDOT LIGHTING CONTROLLER TO BE REMOVED
	PROPOSED IDOT LIGHTING CONTROLLER
	EXISTING ELECTRIC UTILITY SERVICE TO BE REMOVED
	PROPOSED ELECTRIC UTILITY SERVICE
	EXISTING CABLE IN CONDUIT CONDUIT EMBEDDED IN STRUCTURE TO REMAIN
	EXISTING CONDUIT ATTACHED TO STRUCTURE TO REMAIN
	PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AND TYPE AS NOTED
	PROPOSED UNIT DUCT, SIZE AND TYPE AS NOTED
	PROPOSED UNIT DUCT IN UNDERGROUND CONDUIT, SIZE AND TYPE AS NOTED
	EXISTING UNIT DUCT TO REMAIN
	EXISTING UNDERGROUND UNIT DUCT TO BE ABANDONED IN PLACE

ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
ATS	ATTACHED TO STRUCTURE
B.O.C.	BACK OF CURB
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
COMED	COMMONWEALTH EDISON COMPANY
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
EX.	EXISTING
ECA	ELECTRIC CABLE ASSEMBLY
EIS	EMBEDDED IN STRUCTURE
E.O.P.	EDGE OF PAVEMENT
F.O.C.	FACE OF CURB
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
LED	LIGHT EMITTING DIODE
LP	LIGHT POLE
M	METER
MA	MAST ARM
MC	MULTI-CONDUCTOR
MM	MILLIMETER
M.H.	MOUNTING HEIGHT
MW	MESSENGER WIRE
NESC	NATIONAL ELECRIC SAFETY CODE
NO. #	NUMBER
N.T.S.	NOT TO SCALE
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T/F	TOP OF FOUNDATION
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
UGC, GS	UNDERGROUND CONDUCT, GALVANIZED STEEL
VAC	VOLTS, ALTERNATING CURRENT
W	WATTS
WP	WOOD POLE
XFMR	TRANSFORMER
HPS	HIGH PRESSURE SODIUM
LPS	LOW PRESSURE SODIUM
LTFM	LIQUID TIGHT FLEXIBLE METALLIC

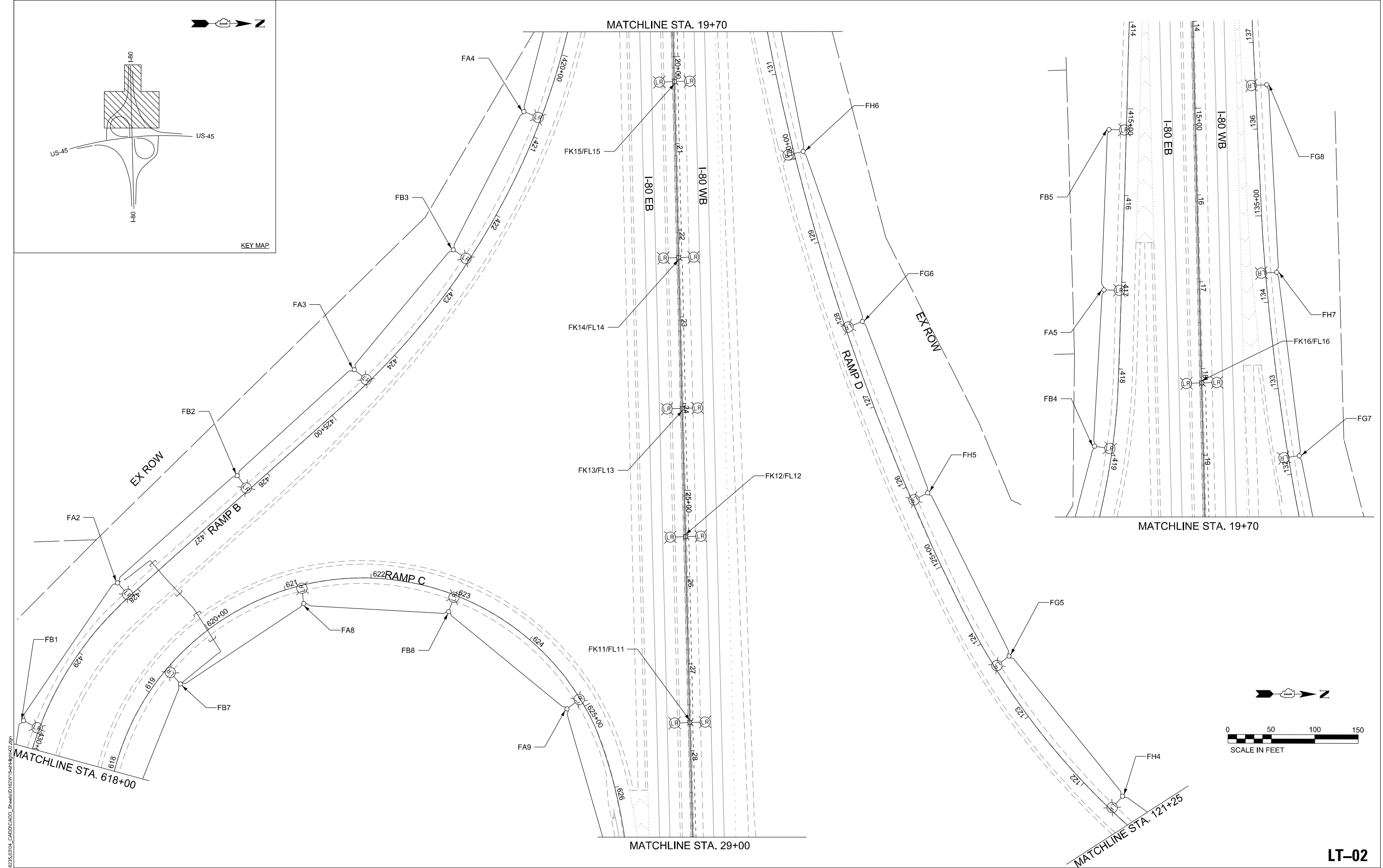
CALL-OUT SAMPLE	
DEFINITION AND EXAMPLE	
	
	
	
	
	

GENERAL NOTES

- THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2024, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL CONTACT MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES 773-287-7672.

IDOT-D1 STANDARDS:

STANDARD NO.	TITLE
BE-206	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SACDA - FIBER OPTIC PROVISION
BE-220	ELECTRIC SERVICE INSTALLATION, REMOTE DISCONNECT
BE-305	LIGHT POLE FOUNDATION, METAL
BE-400	ALUMINUM LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS SHEET A
BE-901	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

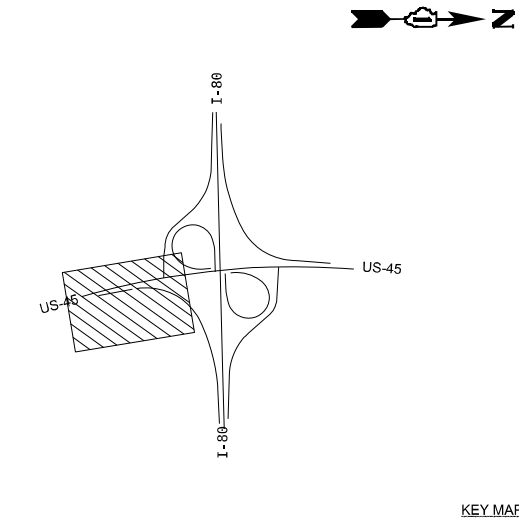
LIGHTING REMOVAL PLAN
HIGH MAST LIGHTING IMPROVEMENT AT I-80 & US 45

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

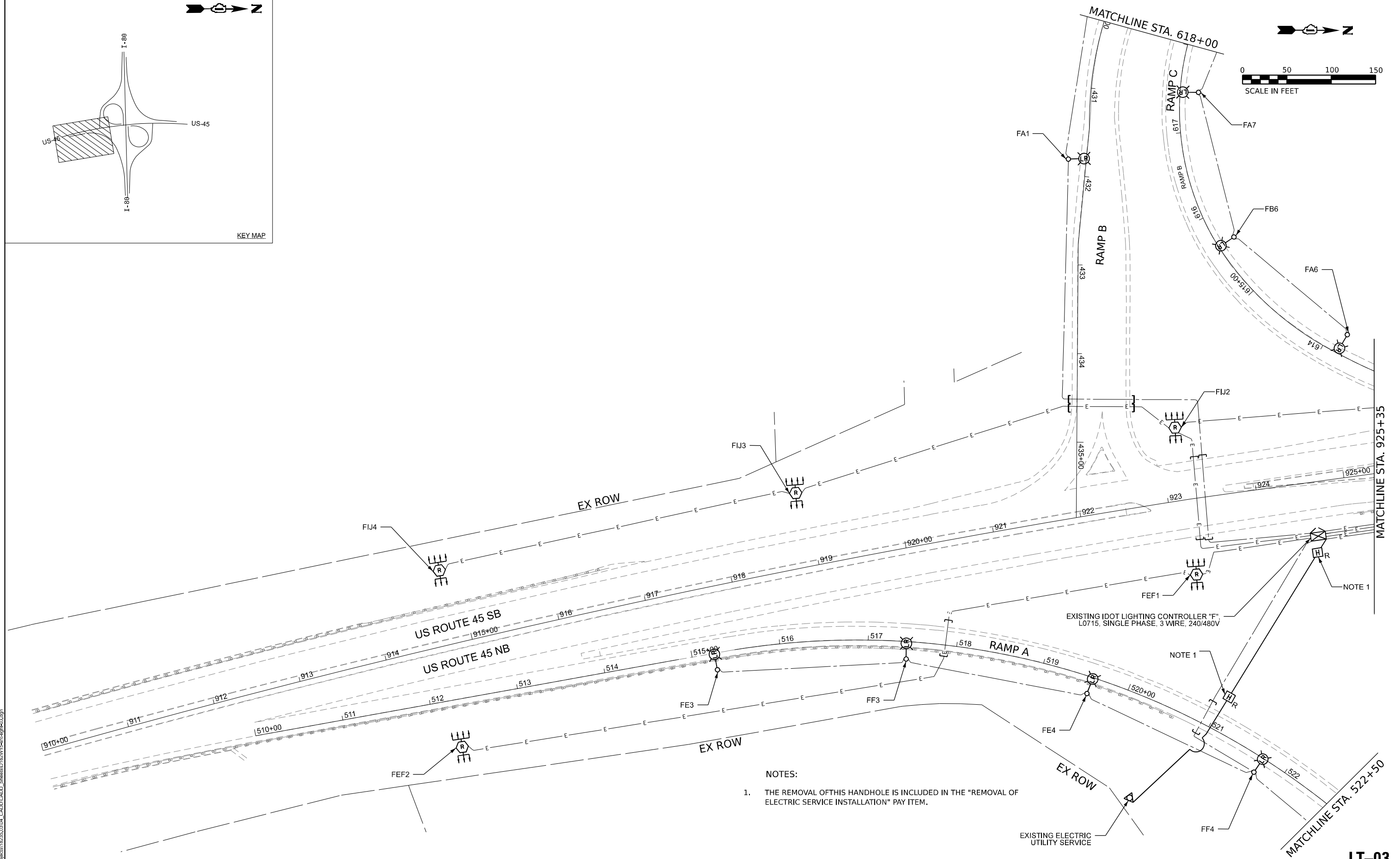
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CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

LT-02

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KEY MAP



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CHECKED	- RP/VG
DATE	- 03/14/2025
PLOT DATE	= 5/2/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
HIGH MAST LIGHTING IMPROVEMENT AT I-80 & US 45

SCALE: 1"=50'

SHEET 2

OF 5

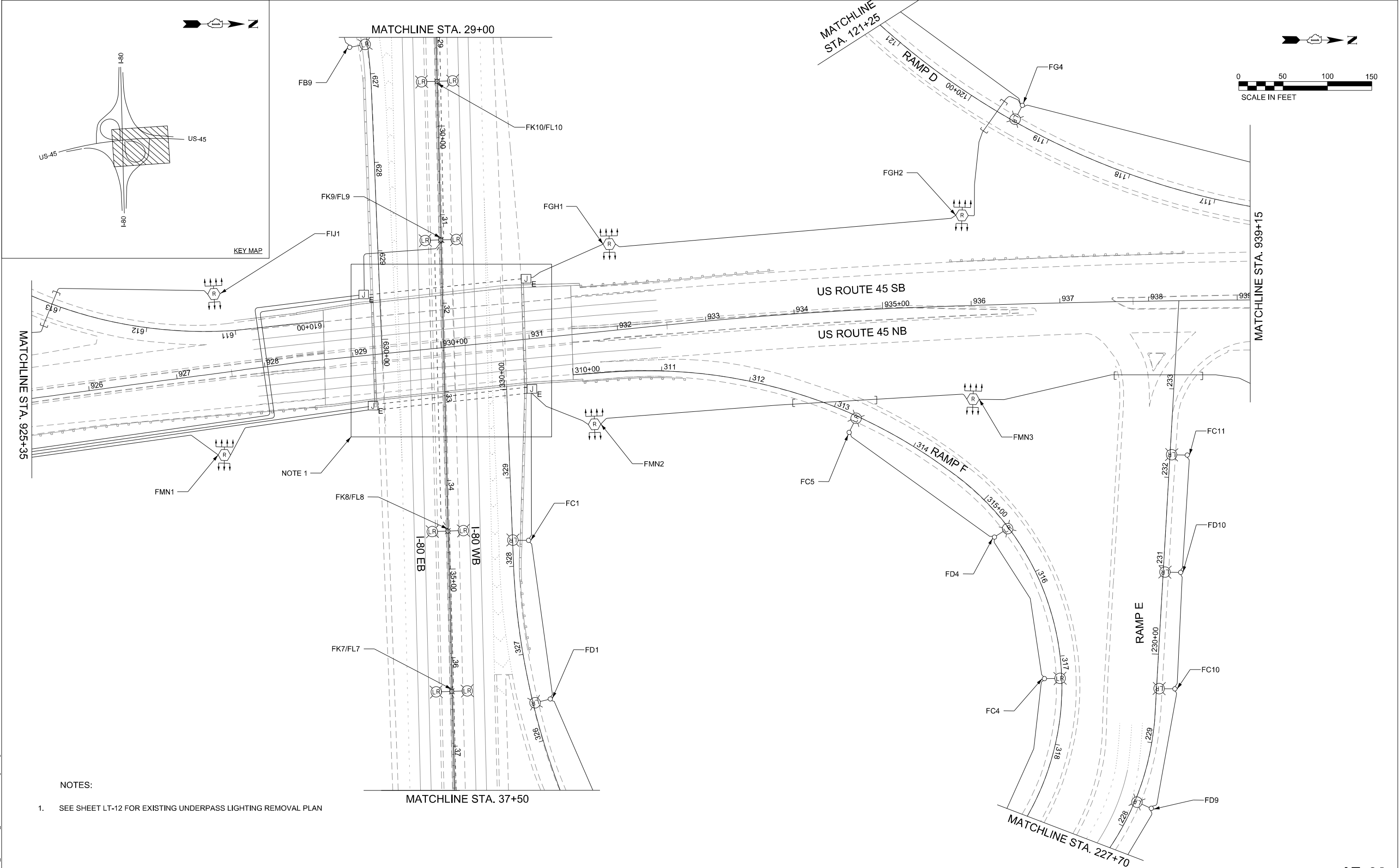
SHEETS

STA.

TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	14
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

LT-03



NOTES:

1. SEE SHEET LT-12 FOR EXISTING UNDERPASS LIGHTING REMOVAL PLAN

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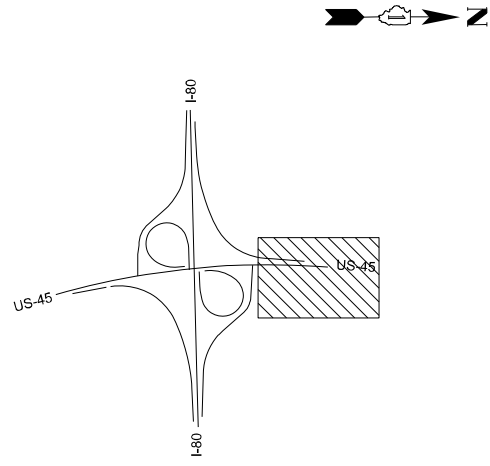
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

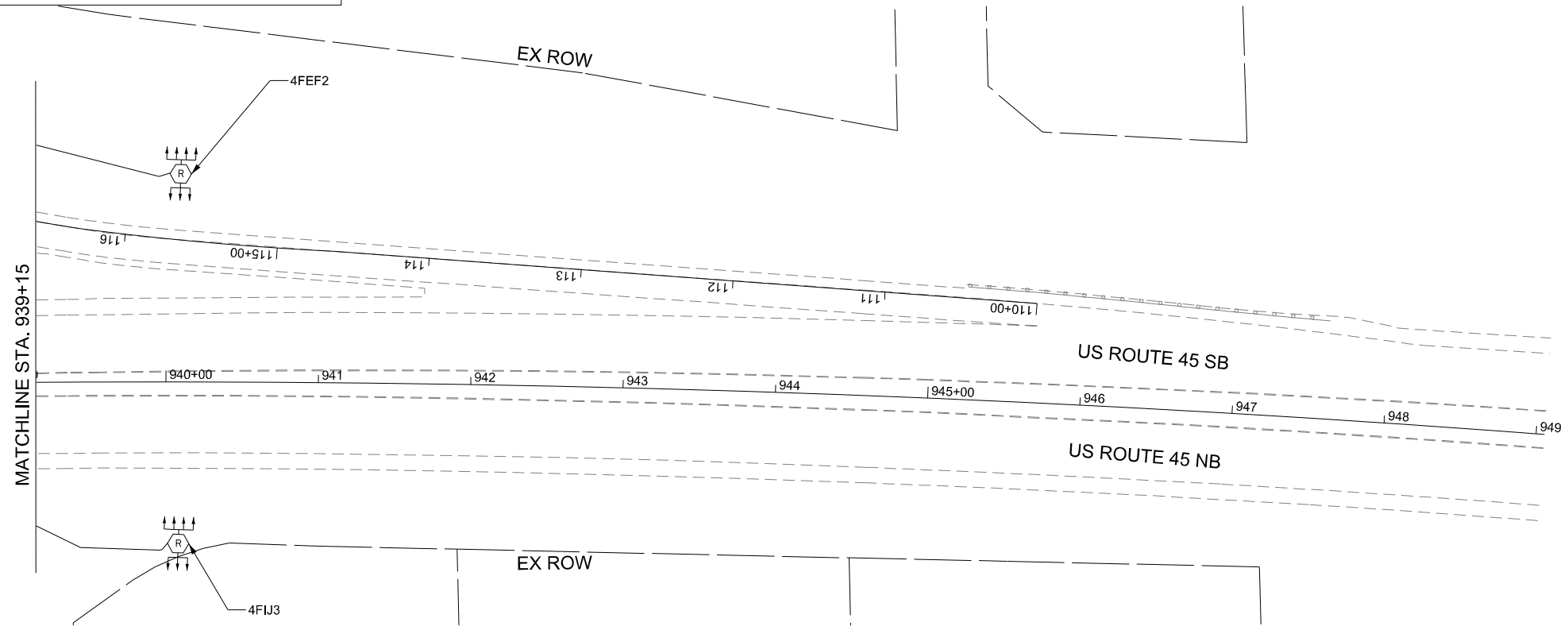
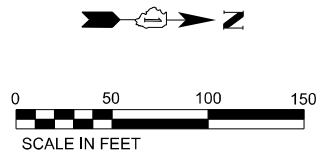
LIGHTING REMOVAL PLAN
HIGH MAST LIGHTING IMPROVEMENT AT I-80 & US 45

SCALE: 1"=50' SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	15
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				



KEY MAP



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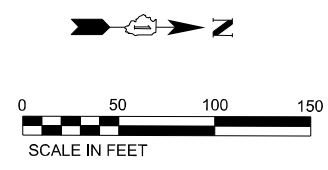
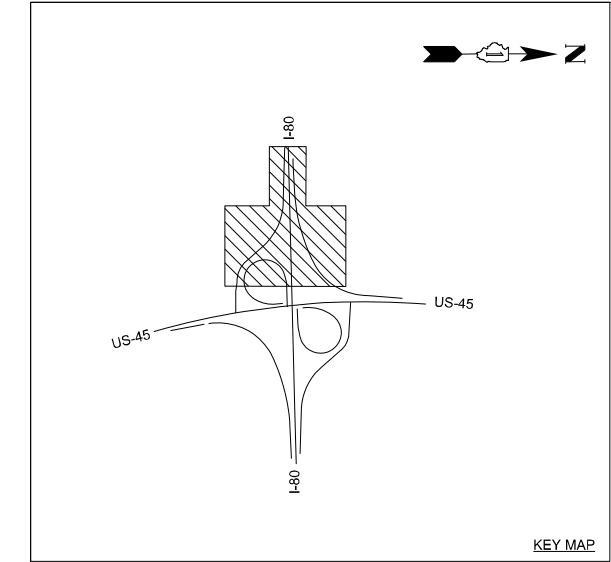
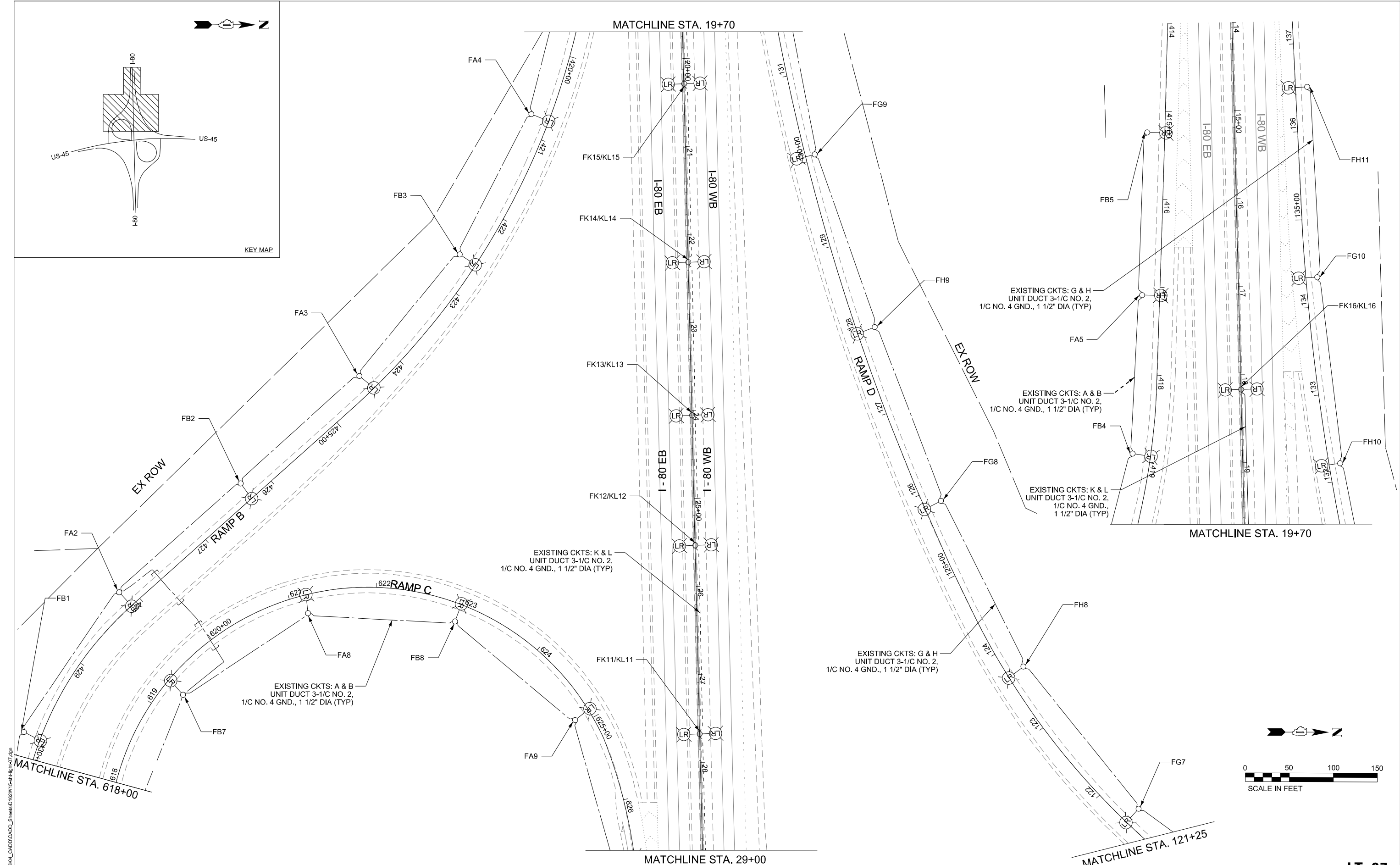
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PLOT DATE = 3/20/2025	DATE - 03/14/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
HIGH MAST LIGHTING IMPROVEMENT AT I-80 & US 45

SCALE: 1"=50' SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	16
CONTRACT NO. 62W15				
		ILLINOIS	FED. AID PROJECT	



MODEL: D:\s44
FILE NAME: J:\13235.03\04_CADD\CADD_Sheets\I-80&US-45\LT-07.dgn



USER NAME = vnunez	DESIGNED - MG	REVISED -
DRAWN - VN	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - RP/VG	REVISED -
PLOT DATE = 3/20/2025	DATE - 03/14/2025	REVISED -

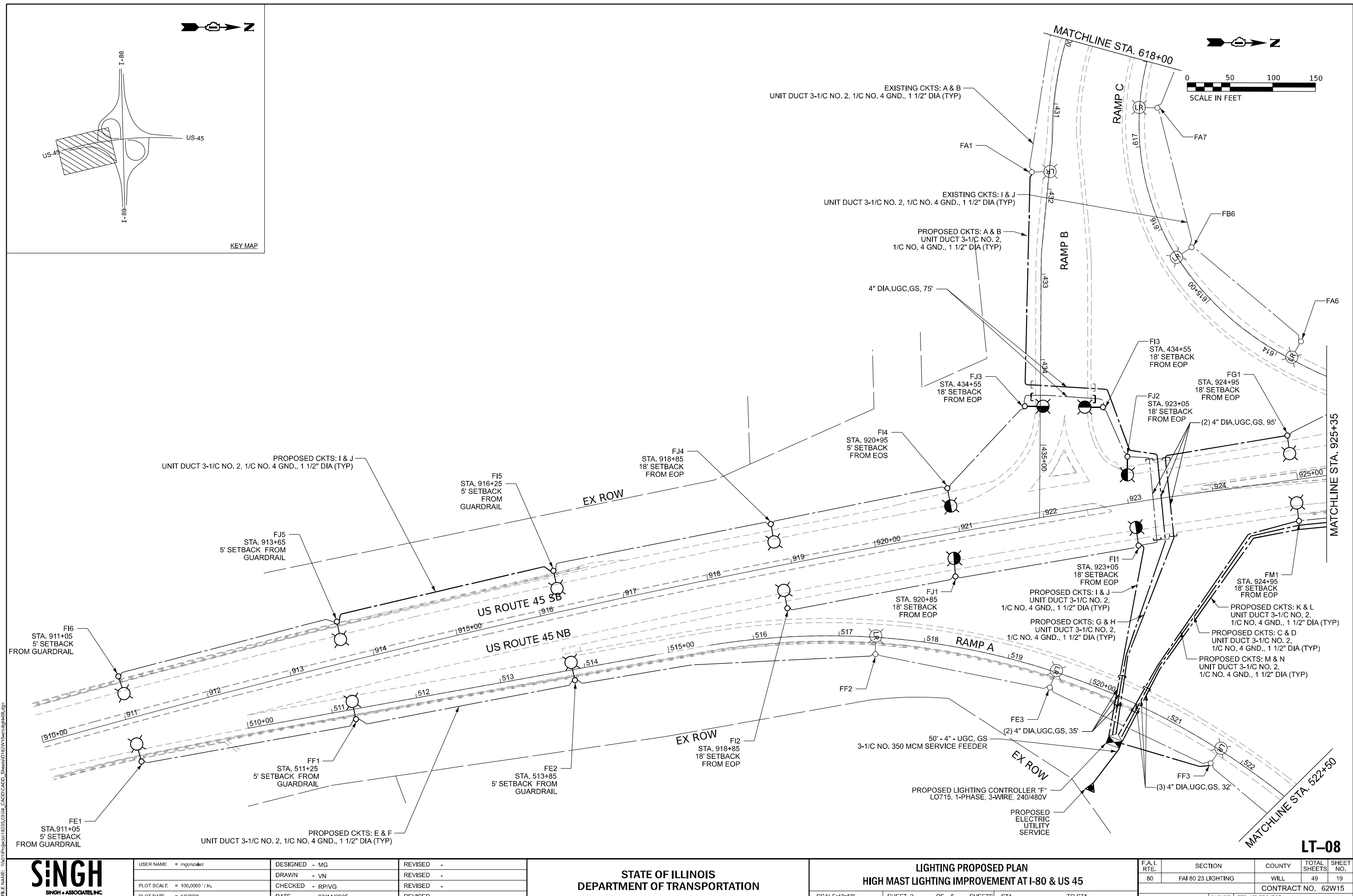
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PROPOSED PLAN
HIGH MAST LIGHTING IMPROVEMENT AT I-80 & US 45

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	18
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

LT-07



USER NAME = mgonzalez	DESIGNED - MG
	DRAWN - VN
PLOT SCALE = 100,0000' / in.	CHECKED - RP/VG
PLOT DATE = 5/2/2025	DATE - 03/14/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHTING PROPOSED PLAN

HIGH MAST LIGHTING IMPROVEMENT AT I-80 & US 45

SCALE: 1"=50'

SHEET 2

OF

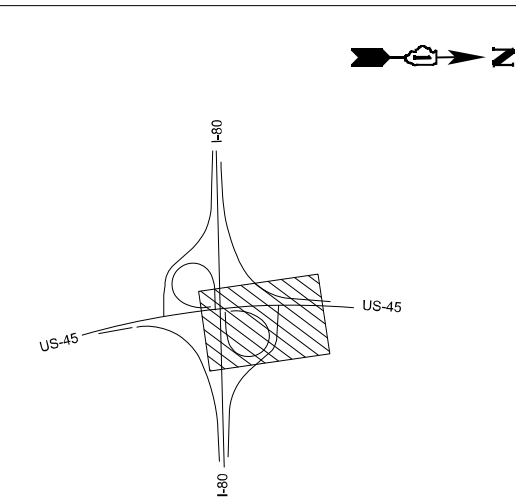
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STA

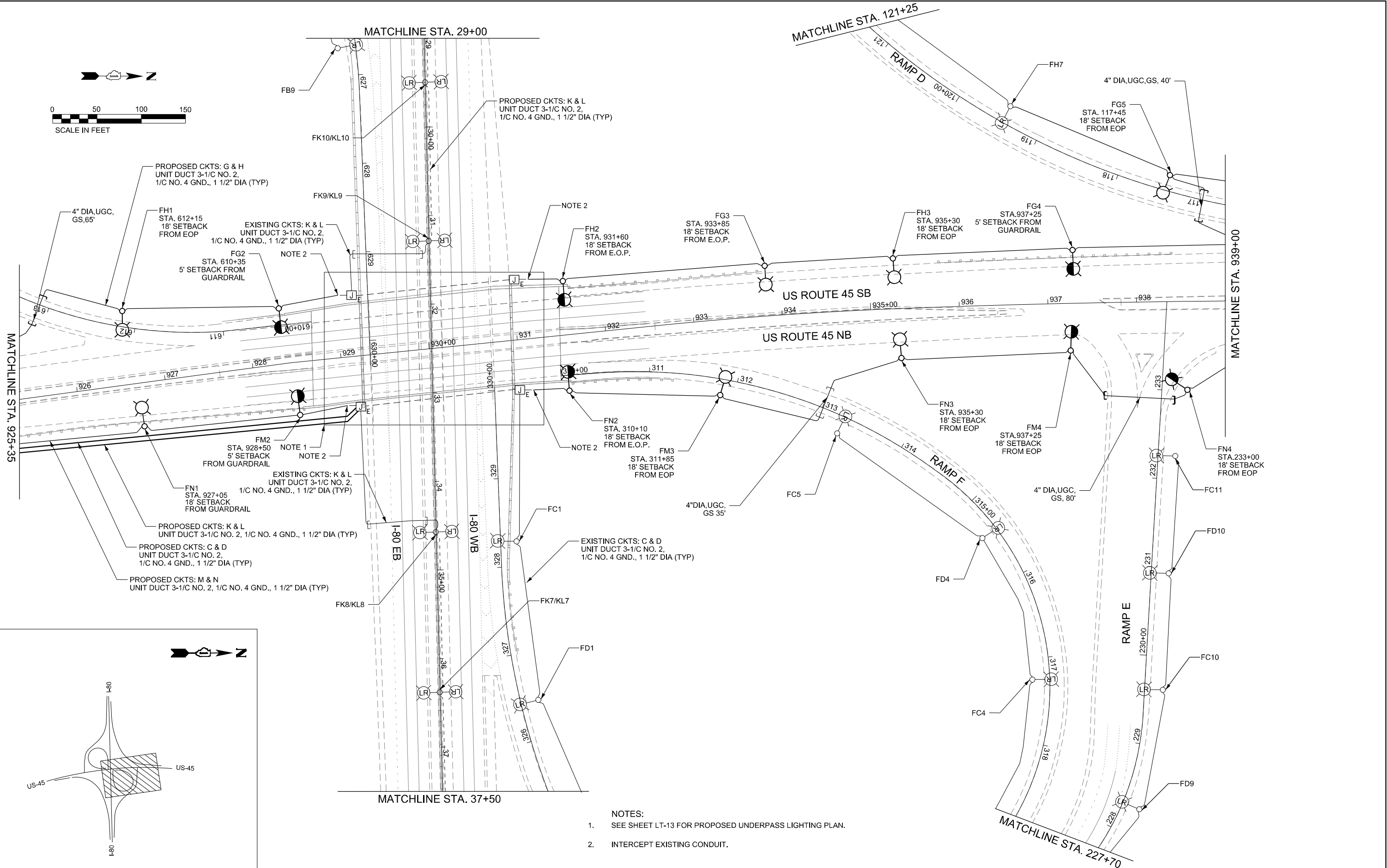
TO STA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	19
		CONTRACT NO. 62W15		
ILLINOIS		FED. AID PROJECT		

MODEL D:\s44
FILE NAME: J:\13235.0304_CADD\CADD_Sheets\0162\W15-Highway.dgn



KEY MAP



- NOTES:
- SEE SHEET LT-13 FOR PROPOSED UNDERPASS LIGHTING PLAN.
 - INTERCEPT EXISTING CONDUIT.

LT-09

SINGH
SINGH & ASSOCIATES INC.
CONSULTING ENGINEERS

USER NAME = vnunez
DRAWN - VN
PLOT SCALE = 100,0000' / in.
CHECKED - RP/VG
PLOT DATE = 3/20/2025
DATE = 03/14/2025

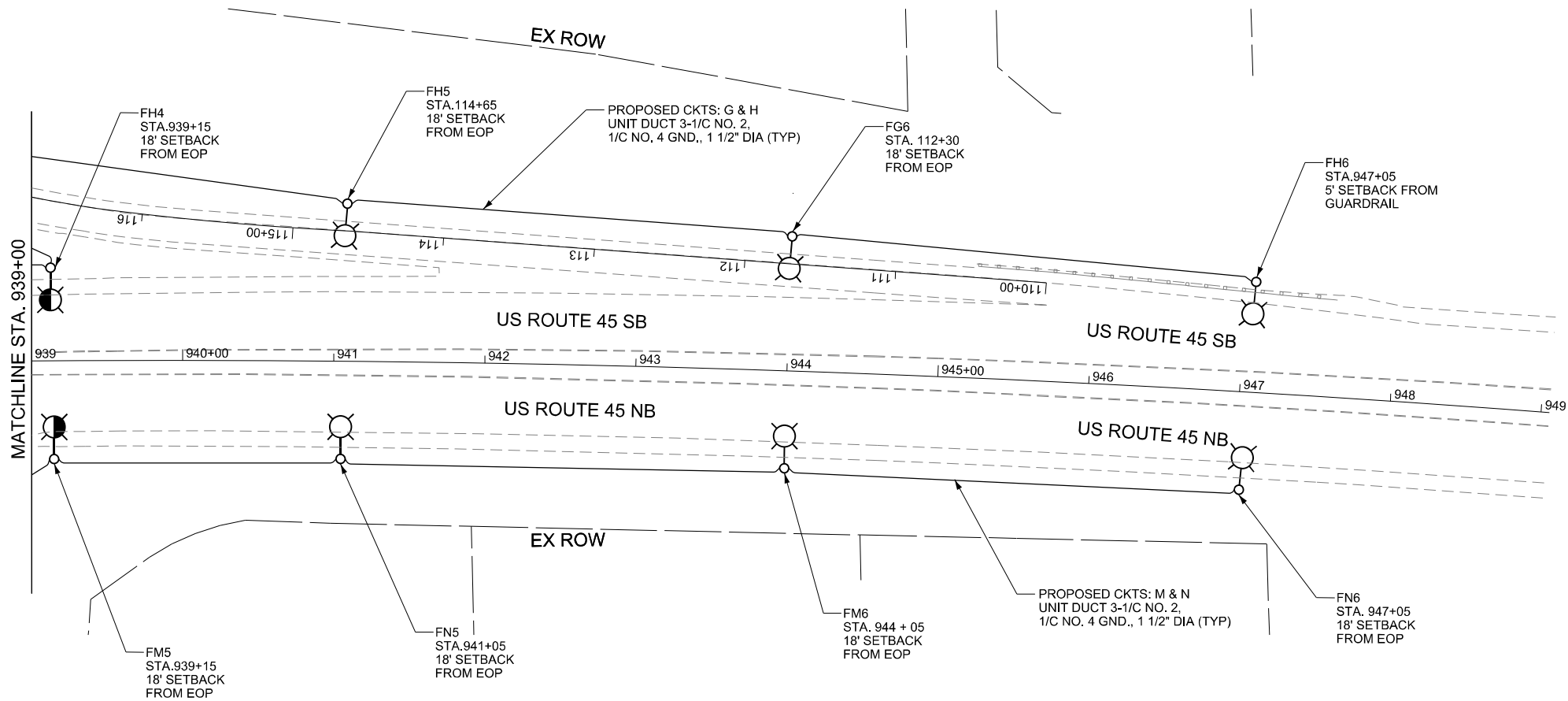
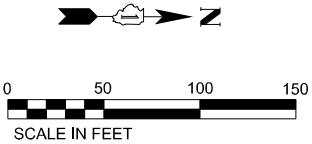
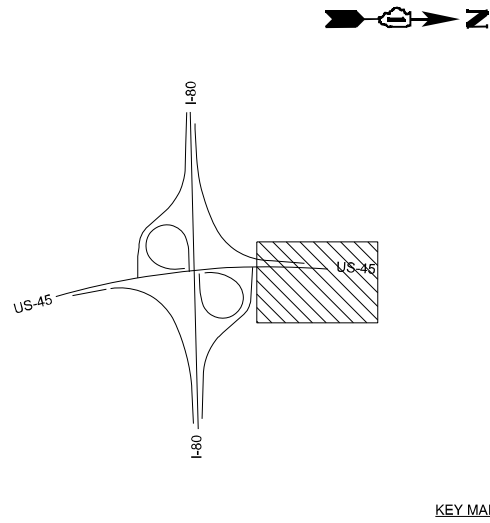
DESIGNED - MG
REVISD -
DRAWN - VN
REVISD -
CHECKED - RP/VG
REVISD -
DATE = 03/14/2025
REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PROPOSED PLAN
HIGH MAST LIGHTING IMPROVEMENT AT I-80 & US 45

SCALE: 1"=50' SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	20
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				



MODEL: D:\s\4
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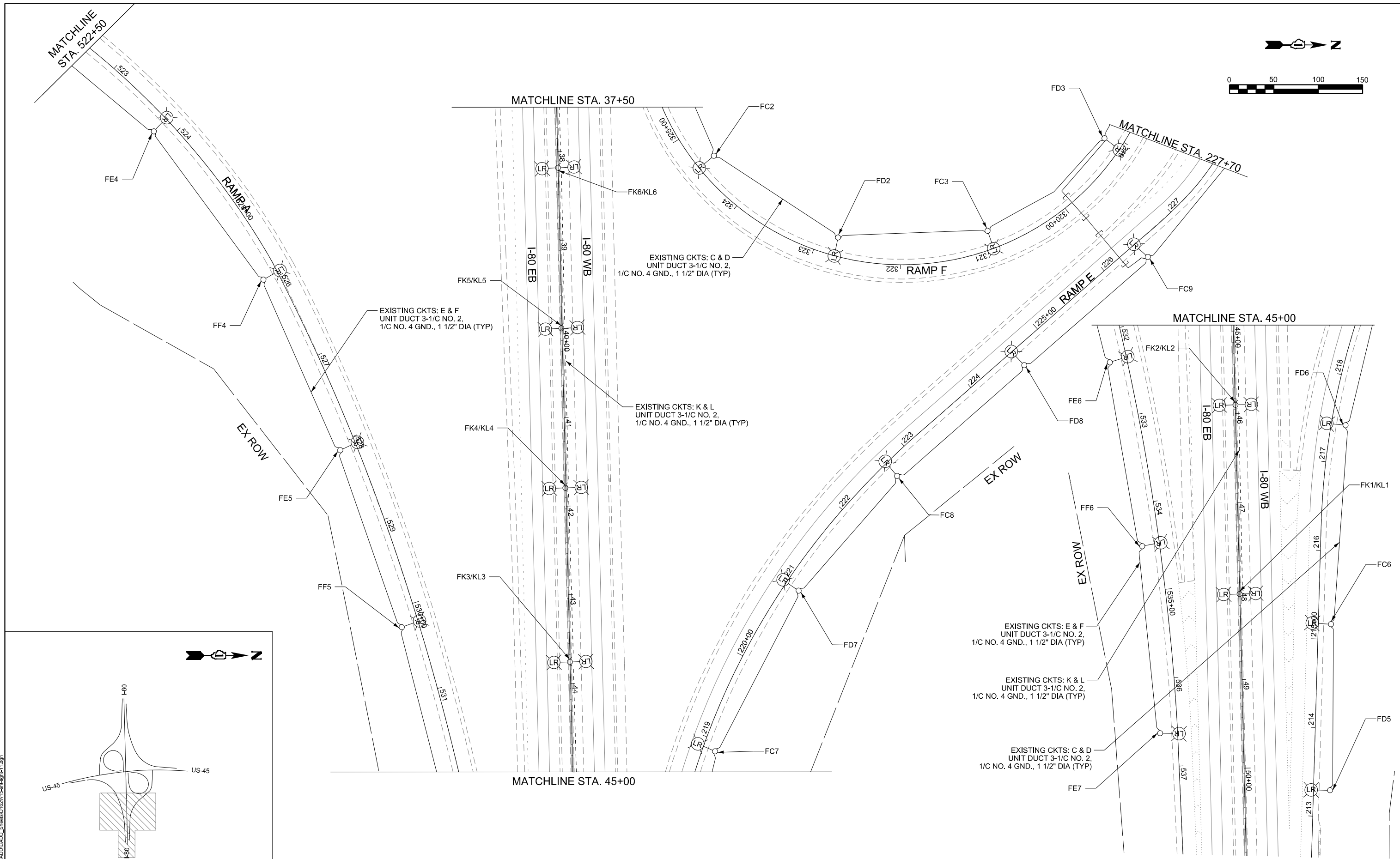
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DRAWN - VN	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - RP/VG	REVISED -
PLOT DATE = 3/20/2025	DATE - 03/14/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PROPOSED PLAN
HIGH MAST LIGHTING IMPROVEMENT AT I-80 AND US 45

SCALE: 1"=50' SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	21
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				



LT-11



USER NAME	= vnunez
DESIGNED	- MG
DRAWN	- VN
CHECKED	- RP/VG
DATE	- 03/14/2025
PLOT SCALE	= 100,0000' / in.
PLOT DATE	= 3/20/2025

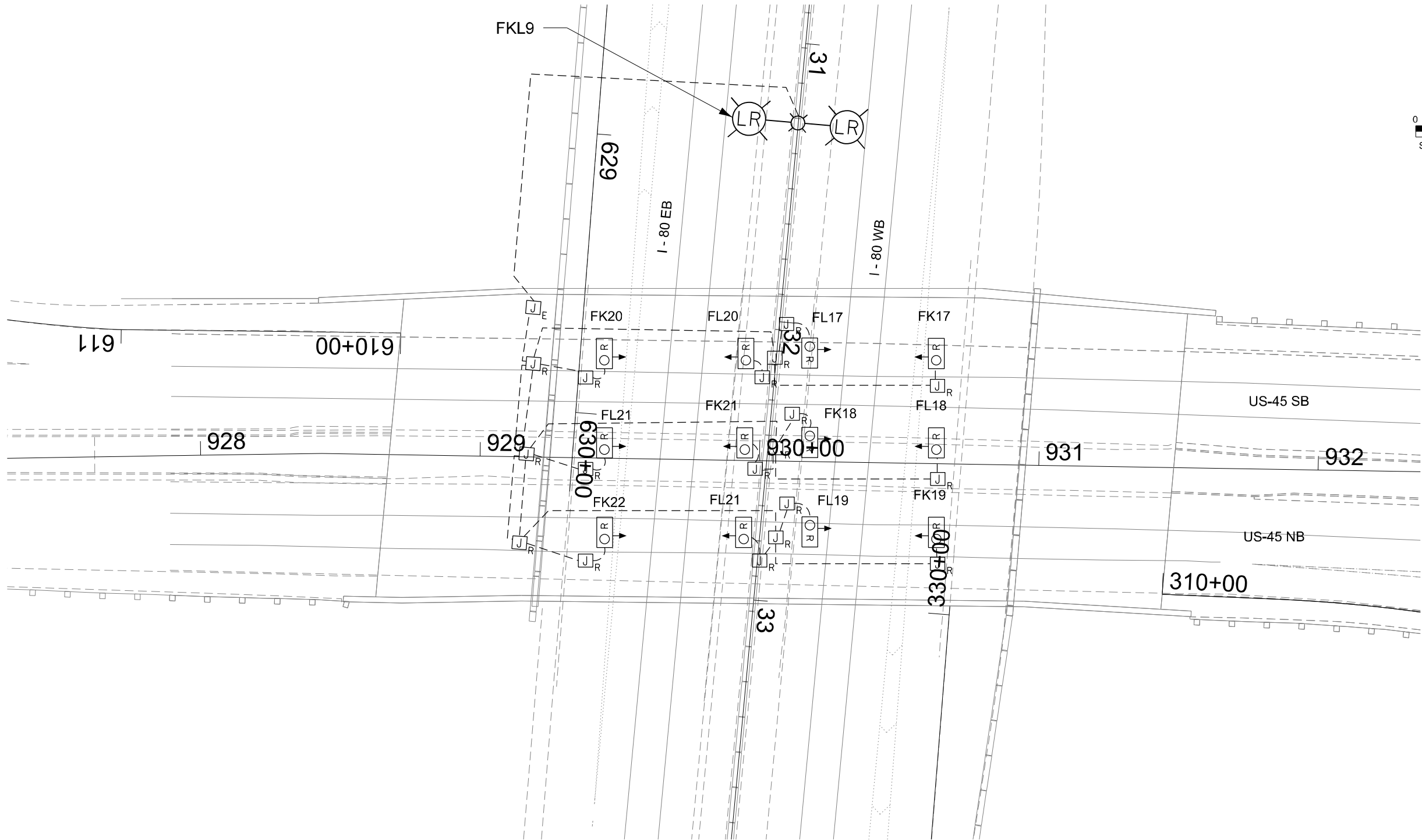
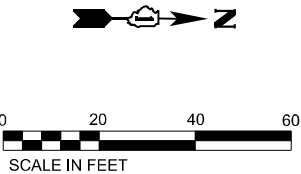
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PROPOSED PLAN
HIGH MAST LIGHTING IMPROVEMENT AT I-80 & US 45

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	22
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				



LEGEND:

- EXISTING CABLE AND CONDUIT TO BE REMOVED
- J_R EXISTING JUNCTION BOX TO BE REMOVED
- J_E EXISTING JUNCTION BOX TO REMAIN
- OR EXISTING UNDERPASS LUMINAIRE TO BE REMOVED

NOTES:

- THE REMOVAL OF EXISTING SUSPENDED MOUNT UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE ITEM "REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE."
- EXISTING JUNCTION BOXES, CABLES, AND CONDUITS FOR CIRCUITS C, D, M, AND N ARE TO REMAIN IN PLACE AND NOT DISTURBED. CIRCUITS E & F TO REMAIN ENERGIZED DURING CONSTRUCTION.

MODEL D:\a\4
FILE NAME: J:\13235.0304_CADD\CADD_Sheets\15-Highway2.dgn



USER NAME	= vnunez
DESIGNED	- MG
DRAWN	- VN
CHECKED	- RP/VG
PLOT DATE	= 3/20/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING UNDERPASS LIGHTING REMOVAL PLAN			
I - 80 AT US - 45			
SCALE: 1:20	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	23
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

- LEGEND
- A

3-1/C NO.10 AND 1/C NO.10 GND IN 1" PVCC RGC

B

2-1/C NO.10 AND 1/C NO.10 GND IN 1"PVCC RGC

C

2-1/C NO.10 AND 1-1/C NO.10 GND IN 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT

D

UNIT DUCT, 600V, 3-1/C NO. 2 1/C NO. 4, GND 1 1/2" DIA. (TYP)

LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E (14.5-FT M.H.)

J

JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"

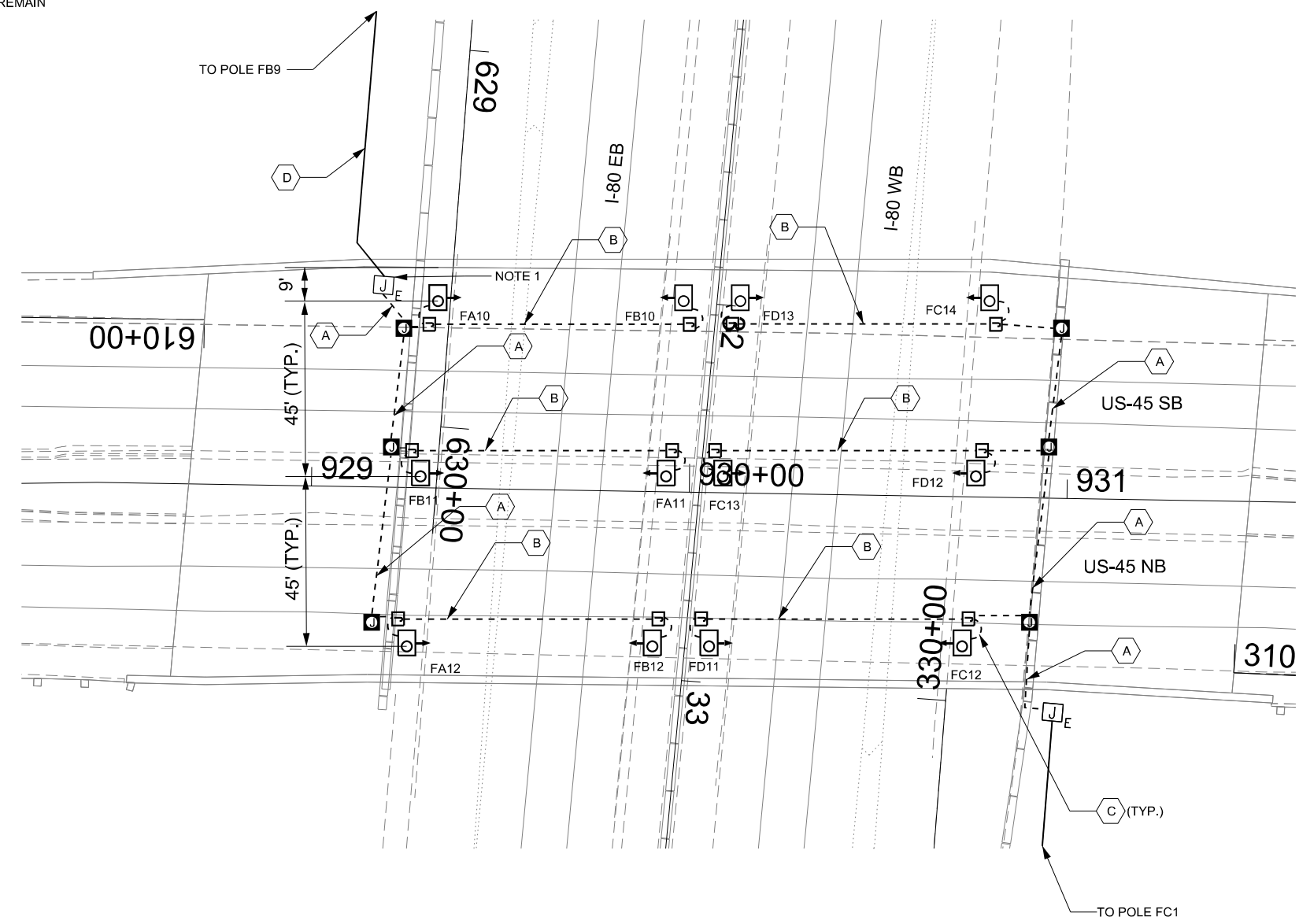
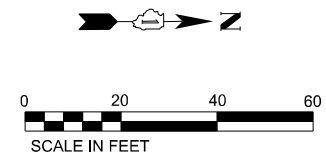
J

JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"

J

E

EXISTING JUNCTION BOX TO REMAIN



- NOTES
1.

INSTALL FUSEHOLDER WITH 30 AMP FUSES AND NEUTRAL SLUG INSIDE THE JUNCTION BOX.
2.

PROPOSED UNDERPASS LUMINAIRES SHALL BE SETBACK 6" FROM EDGE OF PAVEMENT.

MODEL D:\a4
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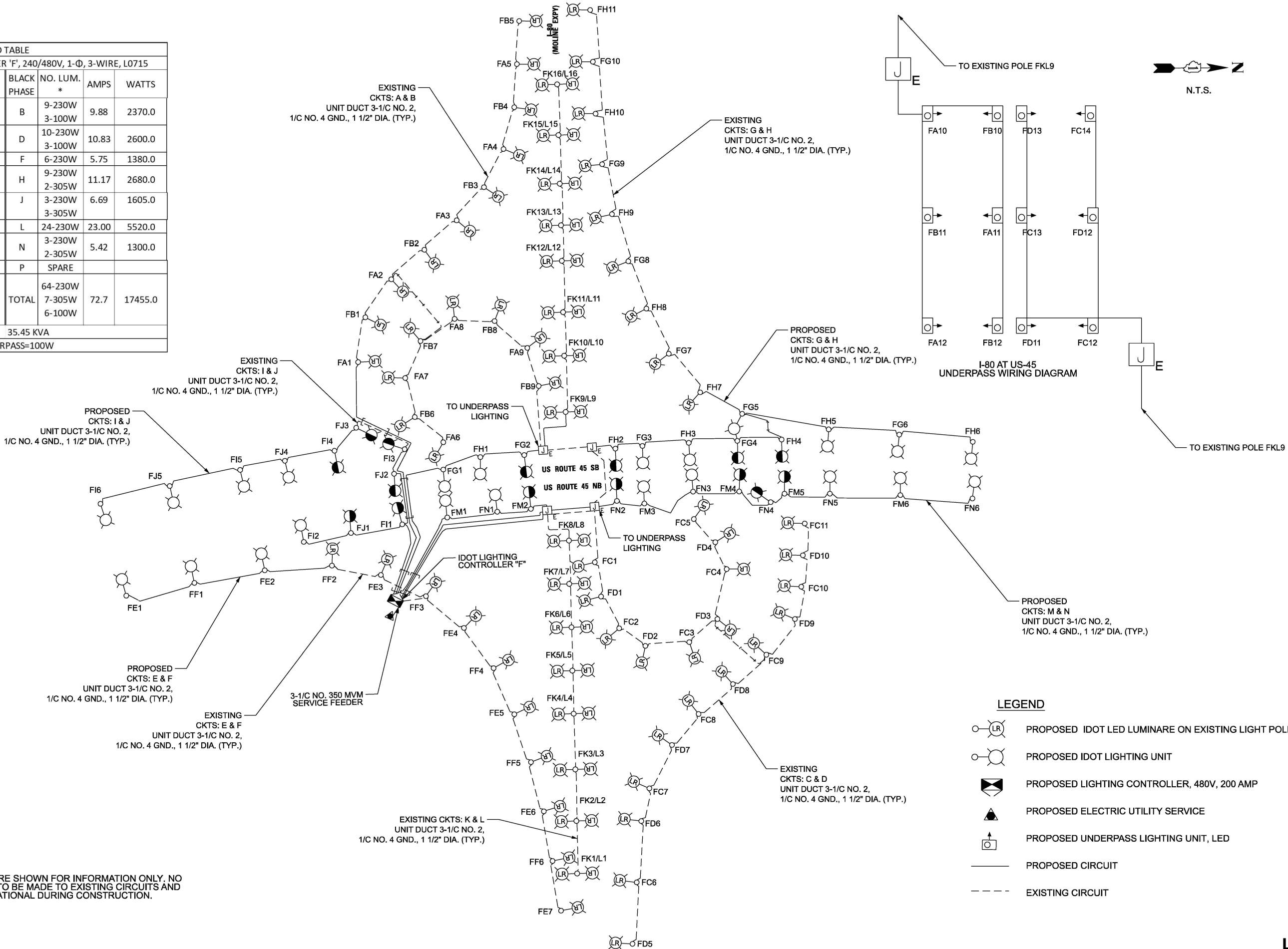
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DRAWN - VN	REVISED -	
PLOT SCALE = 40,0000' / in.	CHECKED - RP/VG	REVISED -
PLOT DATE = 3/20/2025	DATE - 03/14/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED UNDERPASS LIGHTING INSTALLATION PLAN			
I-80 AT US-45			
SCALE: 1" = 20'	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	24
CONTRACT NO. 62W15				
		ILLINOIS	FED. AID PROJECT	

LOAD TABLE							
PROPOSED LIGHTING CONTROLLER 'F', 240/480V, 1-Φ, 3-WIRE, L0715							
RED PHASE	NO. LUM. *	AMPS	WATTS	BLACK PHASE	NO. LUM. *	AMPS	WATTS
A	9-230W 3-100W	9.88	2370.0	B	9-230W 3-100W	9.88	2370.0
C	11-230W 3-100W	11.79	2830.0	D	10-230W 3-100W	10.83	2600.0
E	7-230W	6.71	1610.0	F	6-230W	5.75	1380.0
G	8-230W 2-305W	10.21	2450.0	H	9-230W 2-305W	11.17	2680.0
I	3-230W 3-305W	6.69	1605.0	J	3-230W 3-305W	6.69	1605.0
K	24-230W	23.00	5520.0	L	24-230W	23.00	5520.0
M	3-230W 3-305W	6.69	1605.0	N	3-230W 2-305W	5.42	1300.0
O	SPARE			P	SPARE		
TOTAL	65-230W 8-305W 6-100W	75.0	17990.0	TOTAL	64-230W 7-305W 6-100W	72.7	17455.0
TOTAL CONNECTED LOAD CAPACITY: 35.45 KVA							
LED H=230W; LED I=305W; LED UNDERPASS=100W							



- NOTES**
- EXISTING CIRCUITS ARE SHOWN FOR INFORMATION ONLY. NO MODIFICATIONS ARE TO BE MADE TO EXISTING CIRCUITS AND SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.

LEGEND

- LR PROPOSED IDOT LED LUMINARE ON EXISTING LIGHT POLE
- PROPOSED IDOT LIGHTING UNIT
- ◼ PROPOSED LIGHTING CONTROLLER, 480V, 200 AMP
- ▲ PROPOSED ELECTRIC UTILITY SERVICE
- PROPOSED UNDERPASS LIGHTING UNIT, LED
- PROPOSED CIRCUIT
- - - EXISTING CIRCUIT



USER NAME =	mgonzalez	DESIGNED -	MG	REVISED -	
		DRAWN -	VN	REVISED -	
PLOT SCALE =	360.0000' / in.	CHECKED -	RP/VG	REVISED -	
PLOT DATE =	5/1/2025	DATE -	03/14/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

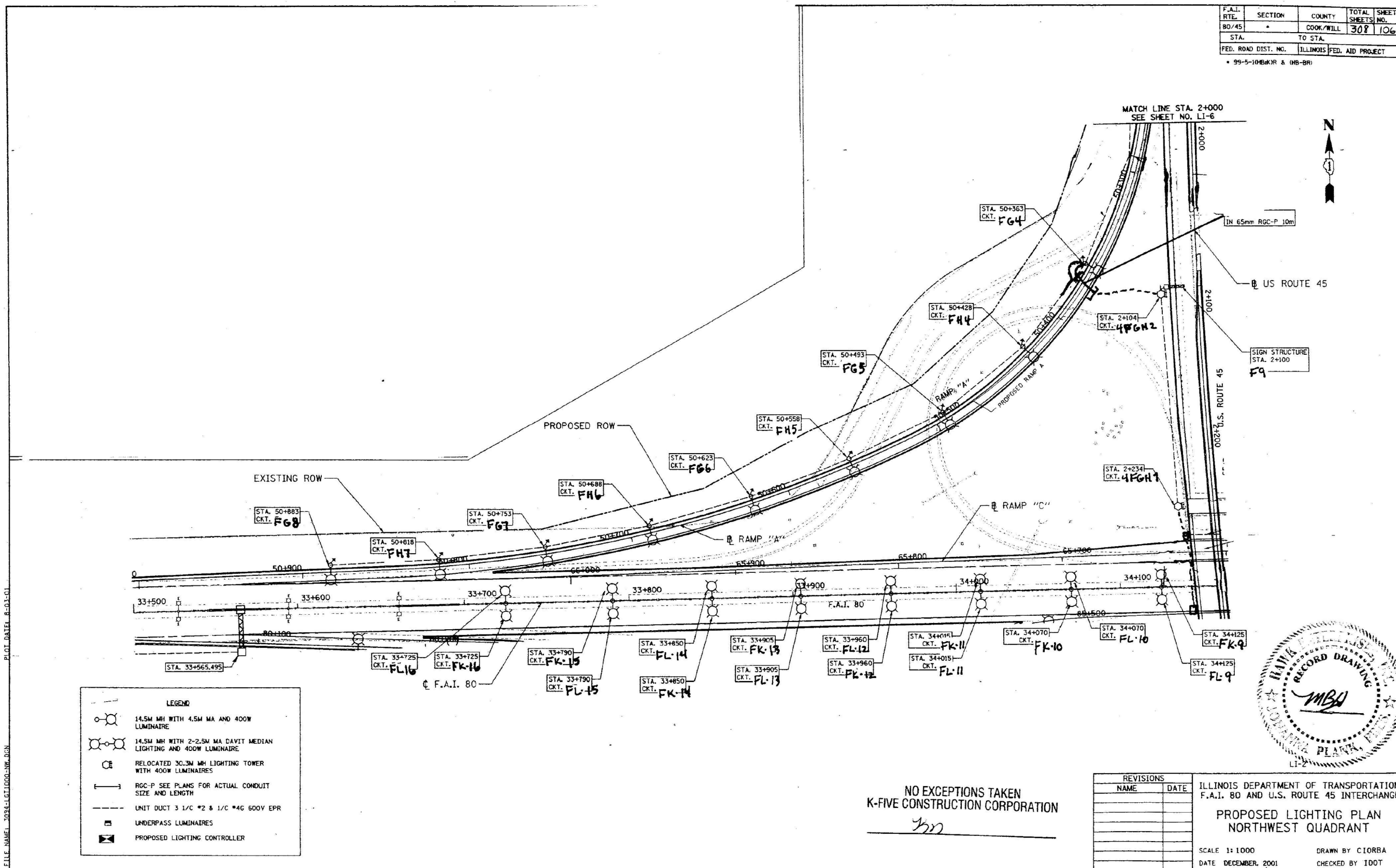
WIRING DIAGRAM
PROPOSED IDOT LIGHTING CONTROLLER "F"

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	25
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/45		COOK/WILL	308	106
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 99-5-10(B)(R) & (B)(B)



FILE NAME: 1034-LT1000-NW.DGN PLOT DATE: 8-01-01

LEGEND	
	14.5M MH WITH 4.5M MA AND 400W LUMINAIRE
	14.5M MH WITH 2-2.5M MA DAVIT MEDIAN LIGHTING AND 400W LUMINAIRE
	RELOCATED 30.3M MH LIGHTING TOWER WITH 400W LUMINAIRES
	RGC-P SEE PLANS FOR ACTUAL CONDUIT SIZE AND LENGTH
	UNIT DUCT 3 1/2" x 2" & 1/2" #4G 600V EPR
	UNDERPASS LUMINAIRES
	PROPOSED LIGHTING CONTROLLER

NO EXCEPTIONS TAKEN
K-FIVE CONSTRUCTION CORPORATION
K5

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 80 AND U.S. ROUTE 45 INTERCHANGE
**PROPOSED LIGHTING PLAN
NORTHWEST QUADRANT**
SCALE 1:1000
DATE DECEMBER, 2001
DRAWN BY CIORBA
CHECKED BY IDOT

FOR INFORMATION ONLY

LT-15

SINGH
SINGH & ASSOCIATES INC.
CONSULTING ENGINEERS

USER NAME = vnunez	DESIGNED - MG	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE = 2.0000" / 1in.	CHECKED - RP/VG	REVISED -
PLOT DATE = 3/20/2025	DATE - 03/14/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT CONTRACT 82462 RECORD DRAWINGS

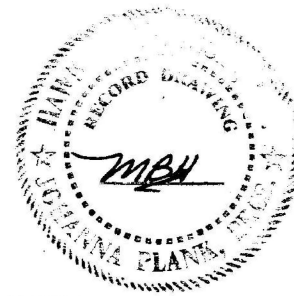
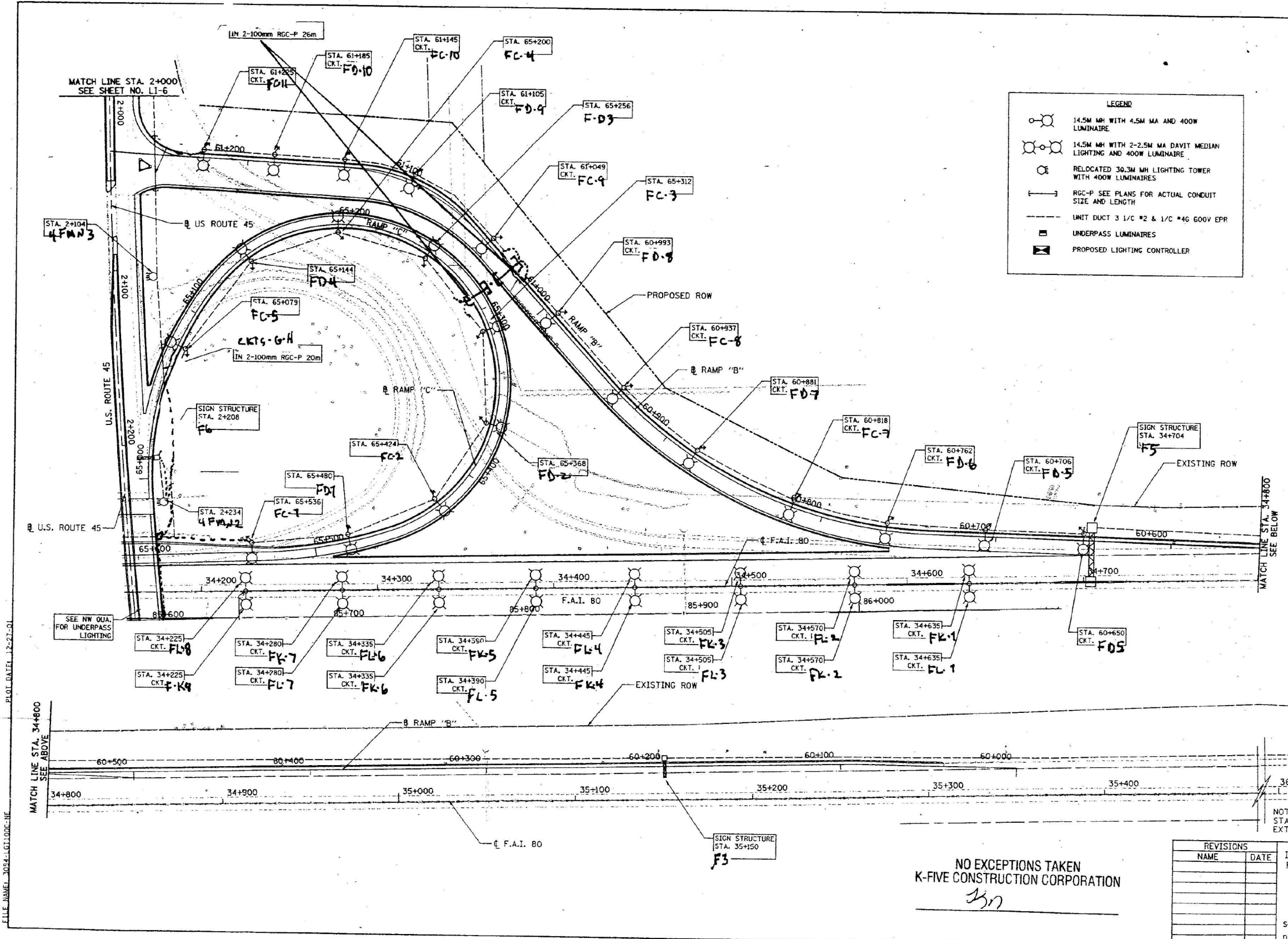
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	28
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/45		COOK/WILL	308	107
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

99-5-11MBK/R & (MB-BR)



NOTE: SURVEY DATA NOT AVAILABLE FROM STA. 35+491 EAST. EXISTING T-80 ALIGNMENT EXTRAPOLATED FROM THIS POINT.

NO EXCEPTIONS TAKEN
K-FIVE CONSTRUCTION CORPORATION
3/1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 80 AND U.S. ROUTE 45 INTERCHANGE
**PROPOSED LIGHTING PLAN
NORTHEAST QUADRANT**
SCALE 1:1000
DATE DECEMBER, 2001
DRAWN BY CIORBA
CHECKED BY IDOT

FOR INFORMATION ONLY

LT-16

MODEL: D:\s\h
FILE NAME: 3118235.0304_CADD\CADD_Sheet\82462\F5-LT-16.dgn
PLOT DATE: 12-27-01
FILE NAME: 3054-LT100C-NE

SINGH
SINGH & ASSOCIATES INC.
CONSULTING ENGINEERS

USER NAME = vnunez	DESIGNED - MG	REVISED -
DRAWN - VN	REVISED -	
PLOT SCALE = 2.0000" / 1 in.	CHECKED - RP/VG	REVISED -
PLOT DATE = 3/20/2025	DATE - 03/14/2025	REVISED -

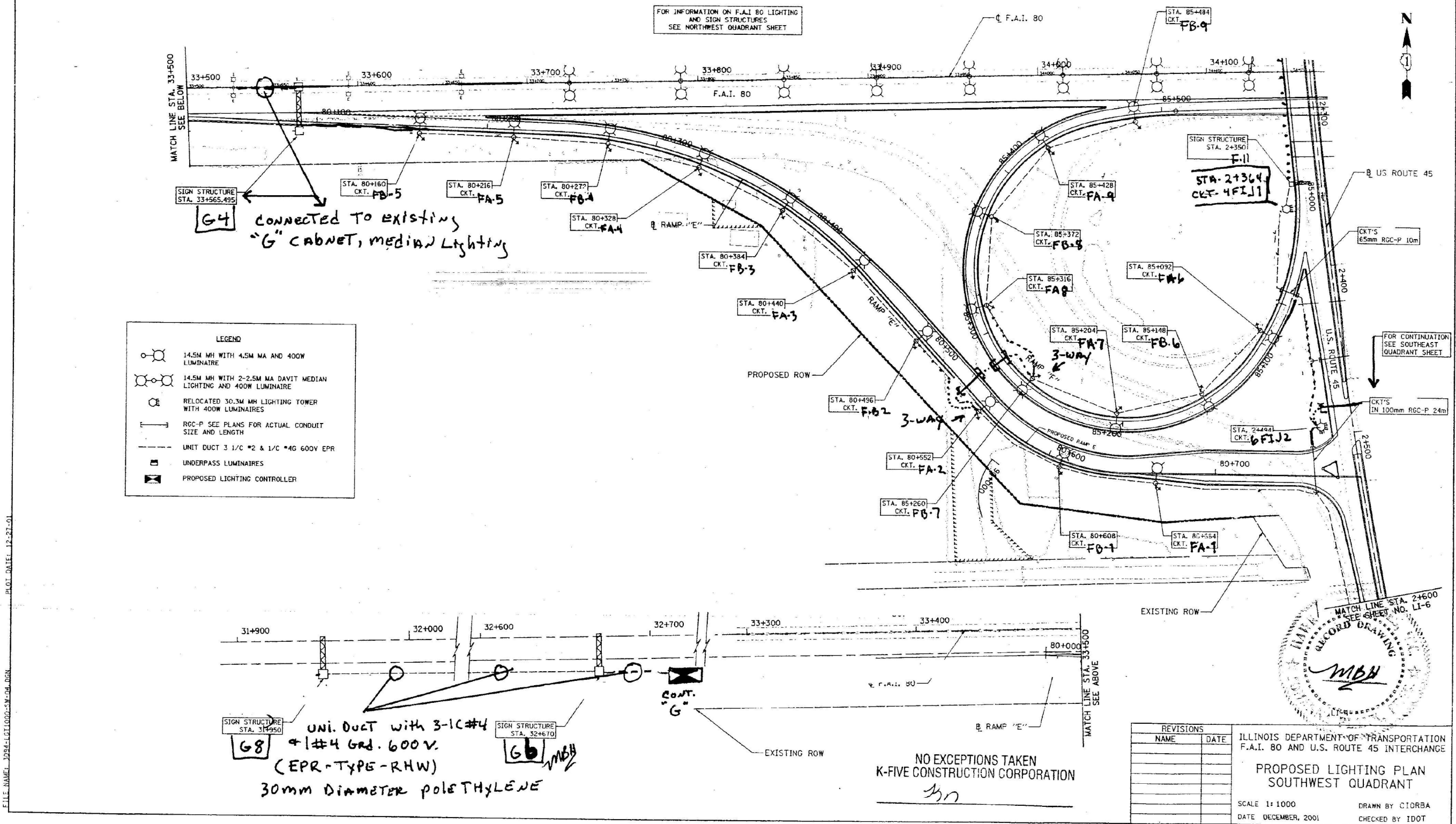
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT CONTRACT 82462 RECORD DRAWINGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	27
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/45	*	COOK/WILL	308	108
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• 99-5-1(HB) & (HB-BR)				



FOR INFORMATION ONLY

LT-17

MODEL: D:\s\h
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SINGH
SINGH & ASSOCIATES INC.
CONSULTING ENGINEERS

USER NAME = vnunez	DESIGNED - MG	REVISED -
DRAWN - VN	REVISED -	
PLOT SCALE = 2.0000' / in.	CHECKED - RP/VG	REVISED -
PLOT DATE = 3/20/2025	DATE - 03/14/2025	REVISED -

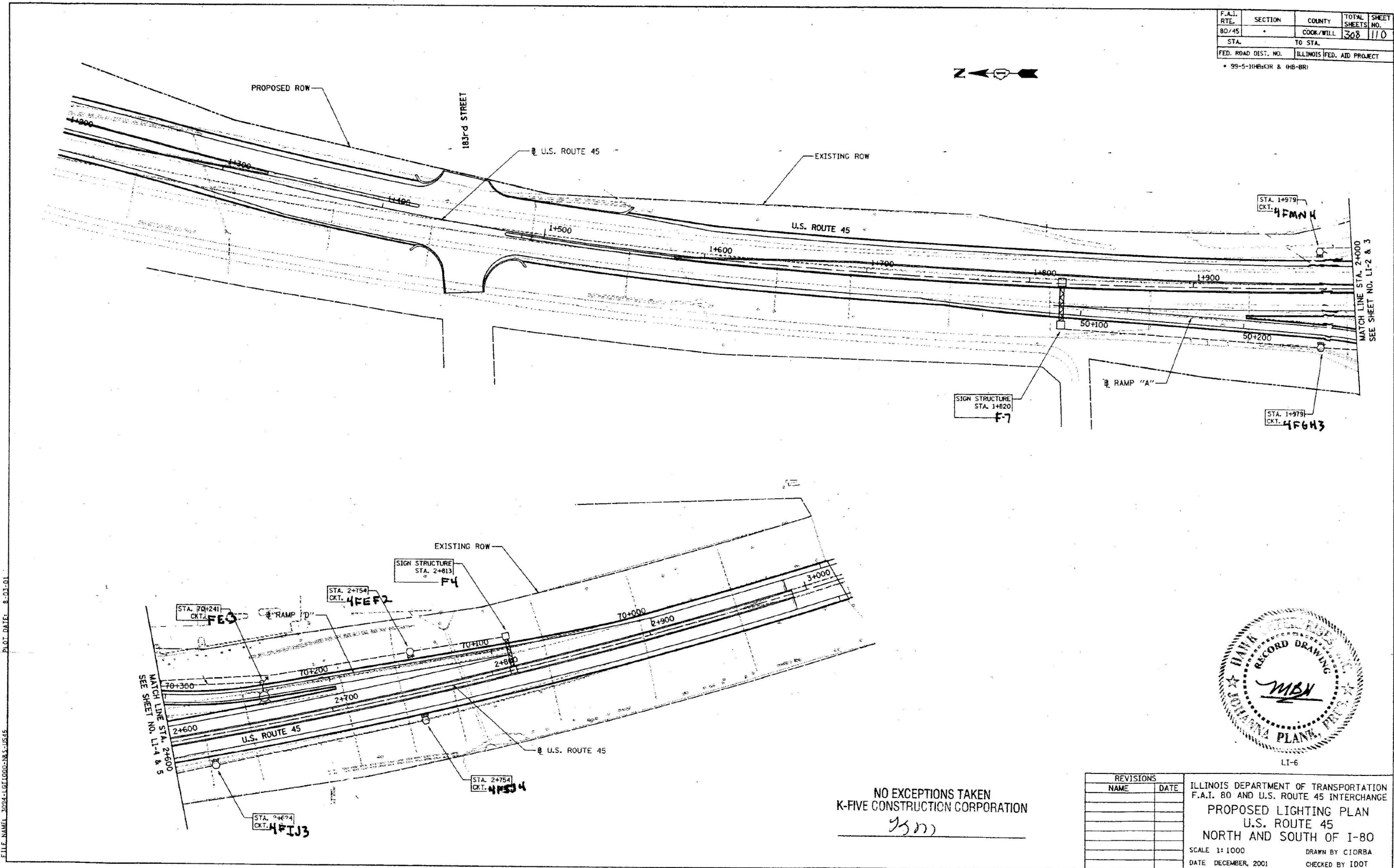
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT CONTRACT 82462 RECORD DRAWINGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	28
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/45	*	COOK/WILL	308	110
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* 99-5-1(HB-KR) & (HB-BR)				



FOR INFORMATION ONLY

LT-19

MODEL: D:\s\h
FILE NAME: J:\11235-0304_CADD\CADD_Sheets\11235-0304-Light-19.dgn

SINGH
SINGH & ASSOCIATES INC.
CONSULTING ENGINEERS

USER NAME = vnunez	DESIGNED - MG	REVISED -
DRAWN - VN	REVISED -	
PLOT SCALE = 2.0000" / 1 in.	CHECKED - RP/VG	REVISED -
PLOT DATE = 3/20/2025	DATE = 03/14/2025	REVISED -

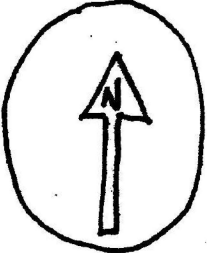
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT CONTRACT 82462 RECORD DRAWINGS

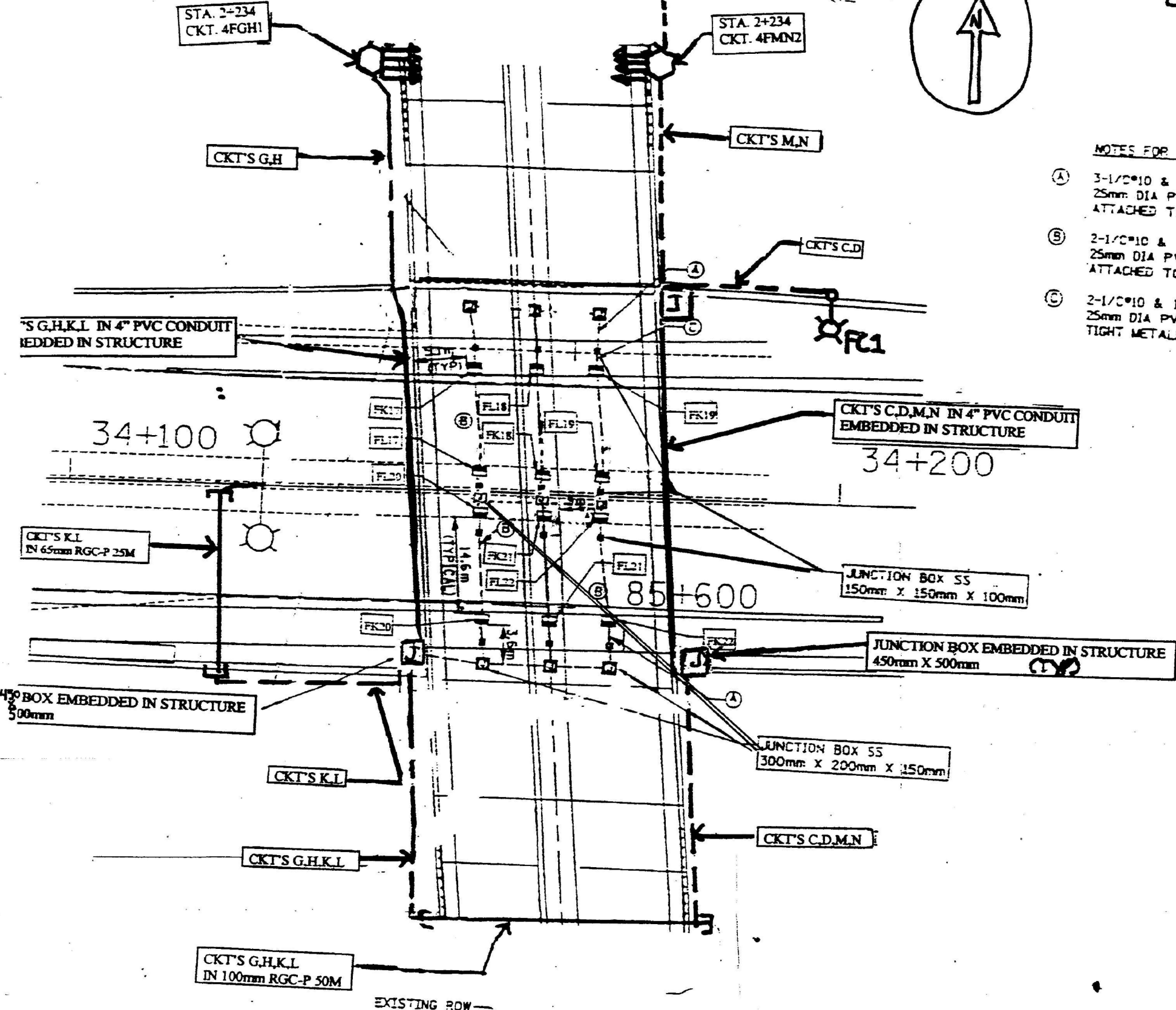
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	30
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

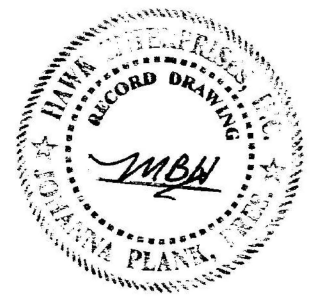
SHEET #106 B.



- NOTES FOR UNDERPASS LIGHTING
- (A) 3-1/2"Ø10 & 1-1/2"Ø10G EPR-TYPE RHW, 600V IN 25mm DIA PVC COATED RGS CONDUIT ATTACHED TO STRUCTURE
 - (B) 2-1/2"Ø10 & 1-1/2"Ø10 EPR-TYPE RHW, 600V IN 25mm DIA PVC COATED RGS CONDUIT ATTACHED TO STRUCTURE
 - (C) 2-1/2"Ø10 & 1-1/2"Ø10 EPR-TYPE RHW, 600V IN 25mm DIA PVC COATED FLEXIBLE LIQUID TIGHT METALLIC CONDUIT



NO EXCEPTIONS TAKEN
K-FIVE CONSTRUCTION CORPORATION
hnn



FOR INFORMATION ONLY

LT-21



USER NAME = vnunez	DESIGNED - MG	REVISED -
DRAWN - VN	REVISED -	
PLOT SCALE = 2,000' = 1 in.	CHECKED - RP/VG	REVISED -
PLOT DATE = 3/20/2025	DATE - 03/14/2025	REVISED -

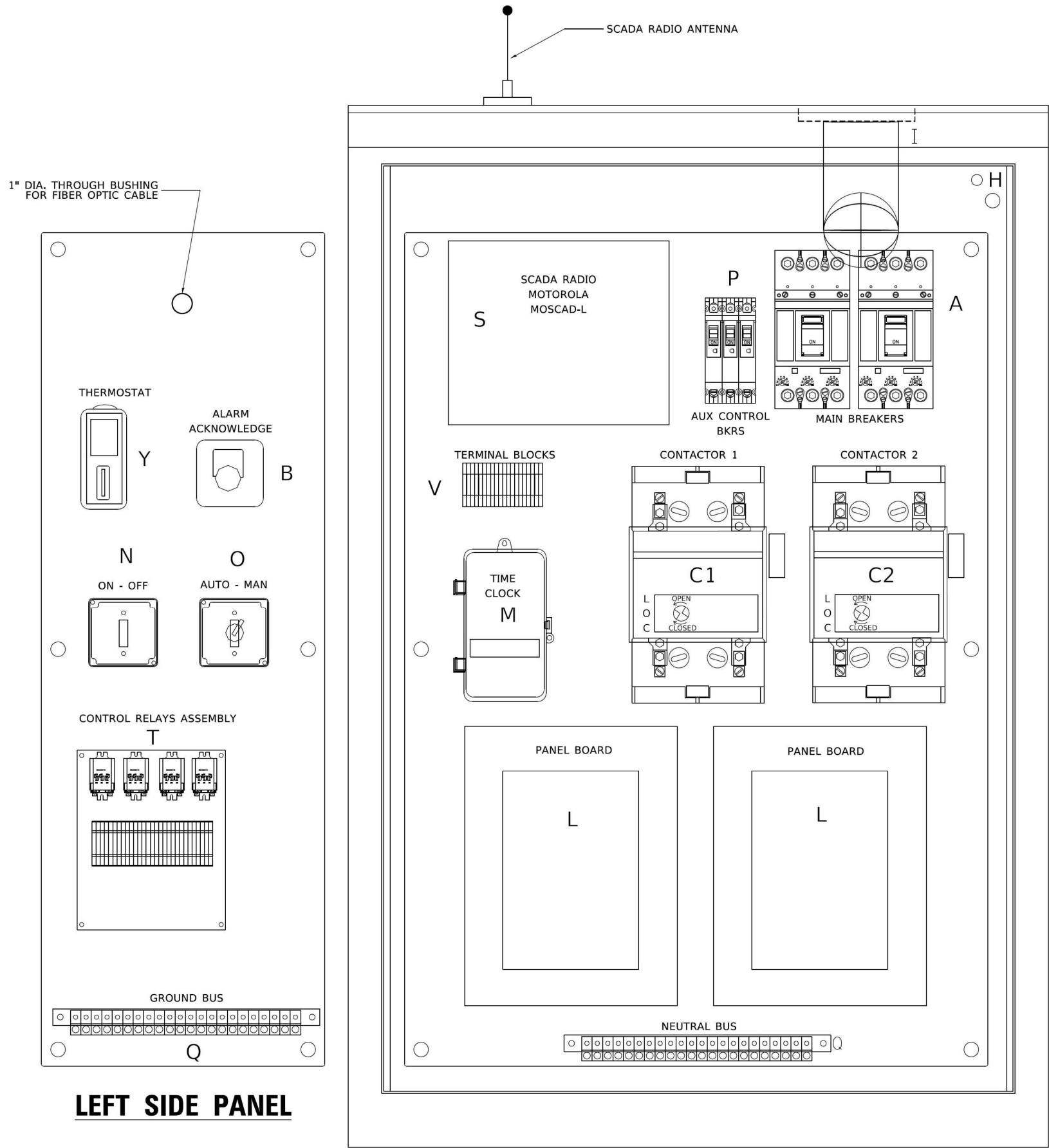
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT CONTRACT 82462 RECORD DRAWINGS

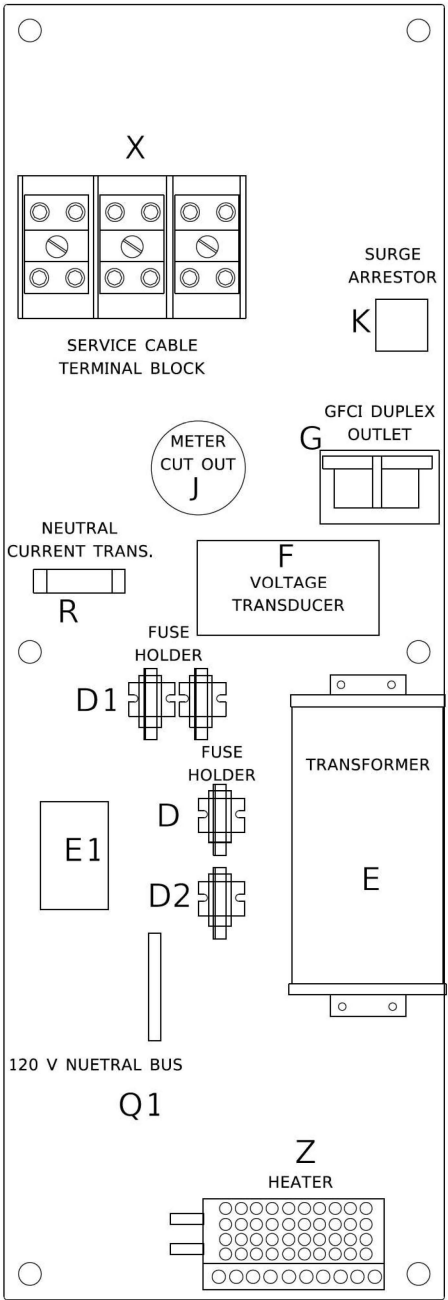
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	32
CONTRACT NO. 62W15				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE: \\nortec-prod\planroom\dot-illinois.gov\PIV\DOT\Documents\DOT_Offices\Director_1\Projects\UHS422\24\CADData\CADsheets\be206.dgn



LEFT SIDE PANEL



RIGHT SIDE PANEL

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2 *	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK - 20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK - ½ A FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK - 2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA240/ 120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSDUCER WITH COVER TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/ 240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001KS11BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T *	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 - 3PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4). QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X *	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEGREE THERMOSTAT
Z	1	375 WATT HEATER

* TERMINALS SHALL BE COVERED WITH
CLEAR PLEXIGLASS SHEET

SD-01

USER NAME = leysa	DESIGNED - R. TOMSONS	REVISED -
DRAWN -	REVISD -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/15/2020	DATE - 01-15-2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, BASE MOUNTED,
480VOLT, 200AMP (DUAL) RADIO SCADA – FIBER OPTIC PROVISION

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<u>80</u>	<u>FAI 80 23 LIGHTING</u>	<u>WILL</u>	<u>49</u>	<u>33</u>
BE-206		CONTRACT NO. <u>62W15</u>		
ILLINOIS		FED. AID PROJECT		



SD-03

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<u>80</u>	<u>FAI 80 23 LIGHTING</u>	<u>WILL</u>	<u>49</u>	<u>35</u>
BE-206		CONTRACT NO. 62W15		
ILLINOIS		FED. AID PROJECT		

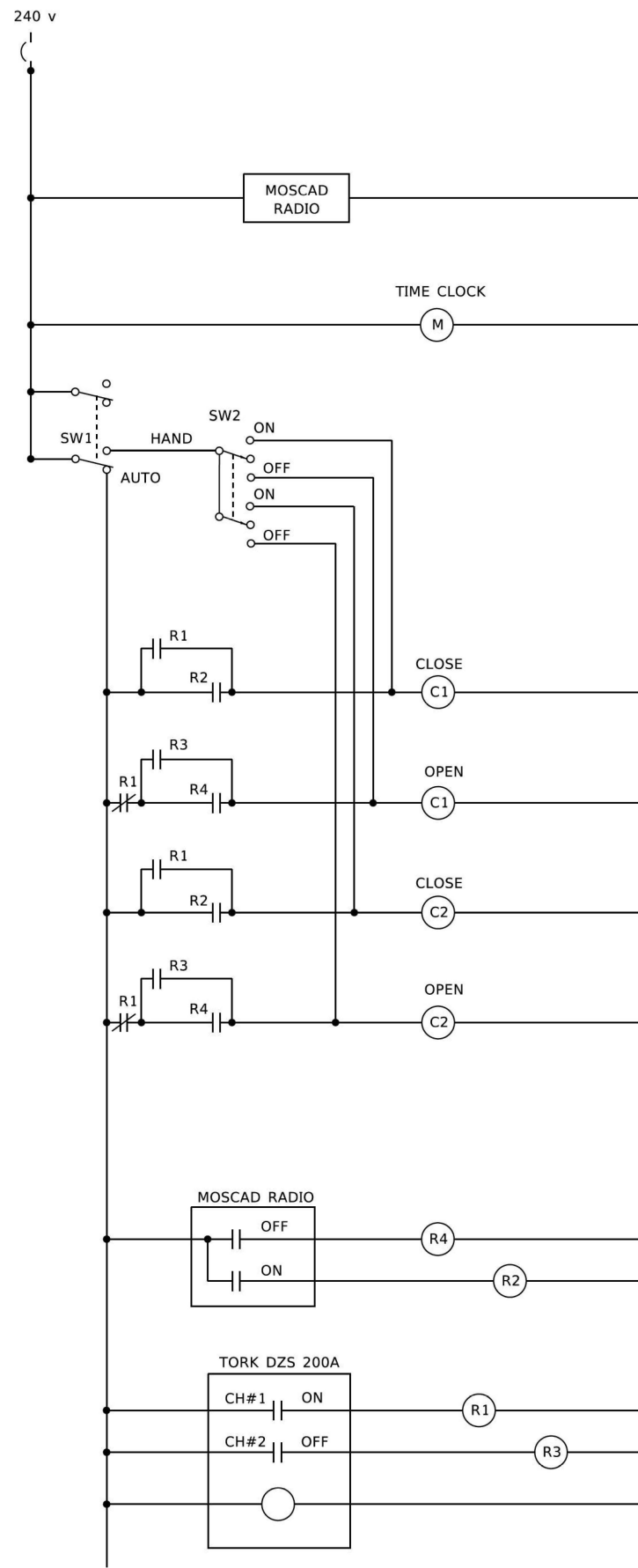
NOTES

1. CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED.
2. ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL, UNLESS OTHERWISE NOTED.
3. NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH (19.05) HIGH LETTERS FILLED IN BLACK: "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
4. ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
5. CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
6. ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
7. THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
8. METAL MOUNTING PANEL SHALL BE FABRICATED FROM THE SAME MATERIAL AS THE CABINET AND SHALL BE FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
9. CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.
10. ALL DEVICES SHALL BE FRONT REMOVABLE.
11. TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY (LIGHTS ON).
12. SET LATITUDE TO 42 DEGREES. SET CH.1 TO 23 MINUTES AFTER ASTRONOMICAL SUNSET, 50 MINUTES BEFORE ASTRONOMICAL SUNRISE. SET CH.2 TO 60 MINUTES AFTER ASTRONOMICAL SUNSET (WITH A SIGNAL LENGTH OF 1 SECOND), +28 MINUTES AFTER ASTRONOMICAL SUNRISE (WITH A SIGNAL LENGTH OF 7 SECONDS.)
13. BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. 240V NEUTRAL BUS SHALL BE PAINTED WHITE, GROUND BUS SHALL BE PAINTED GREEN, AND THE 120V NEUTRAL BUS SHALL BE PAINTED GREY.
14. ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
15. ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
16. ALL CONTROL WIRING SHALL BE 600V #12 TYPE MTW, SCADA WIRING SHALL BE #18.
17. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
18. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:

R = RED
B = BLACK
BL = BLUE

Y = YELLOW
W = WHITE
G = GREEN
G = GREY

19. MOSCAD I/O WIRING SHALL BE:
DIGITAL INPUT (DI) WIRING SHALL BE #18 MTW PURPLE.
ANALOG INPUT (AI) WIRING SHALL BE #18, 2/C SHIELDED.
AI AND DI WIRING MAY BE BUNDLED TOGETHER, BUT SHALL NOT BE BUNDLED WITH
OTHER WIRING.
20. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
21. SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED,
CLOCK NOT ACTIVE (DE-ENERGIZED STATE).
22. A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM (NO SMALLER
THAN 11"x17" EACH) SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER WITH
STAINLESS STEEL SCREWS.



MOSCAD I/O ASSIGNMENTS

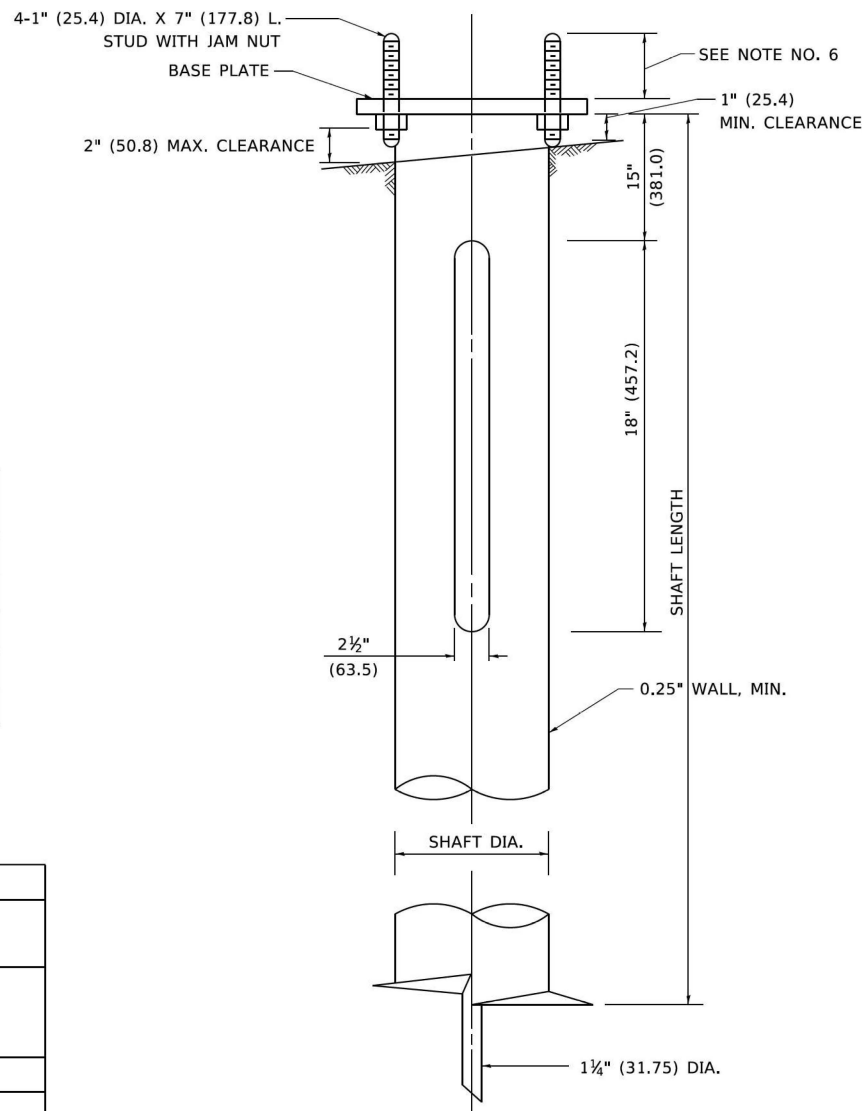
TERM	MOSCAD DESTINATION	DESCRIPTION OF INPUT
1	DIGITAL INPUT 1	ALARM KNOWLEDGE
2	DIGITAL INPUT 2	DOOR OPEN
3	DIGITAL INPUT 3	MAIN(S) BREAKER OPEN
4	DIGITAL INPUT 4	CONTACTOR 1 OPEN
5	DIGITAL INPUT 5	CONTACTOR 2 OPEN
6	DIGITAL INPUT 6	CABINET IN NON-AUTO
7	DIGITAL INPUT 7	BACK-UP CLOCK OFF CALL
8	DIGITAL INPUT 8	BACK-UP CLOCK ON CALL
17	24 V+	24+VDC
18	DI COMMON	COMMON
21	K1 C	K1 COMMON
22	K1 NO	LIGHTS ON CALL
24	K2 C	K2 COMMON
25	K2 NO	LIGHTS OFF CALL
32	ANALOG INPUT 1 (+)	CABINET NEUTRAL CURRENT
33	ANALOG INPUT 1 (-)	CABINET NEUTRAL CURRENT
34	ANALOG INPUT 2 (+)	CABINET SERVICE VOLTAGE
35	ANALOG INPUT 2 (-)	CABINET SERVICE VOLTAGE
40	P. GROUND	GROUND

ALL ANALOG INPUTS WILL BE 4-20 MA ONLY. DIGITAL OUTPUT RELAYS WILL BE ELECTRICALLY ENERGIZED AND MOMENTARILY HELD

MIXED I/O MODULE MODEL NUMBER V436

CONTROL CIRCUIT LADDER LOGIC DIAGRAM

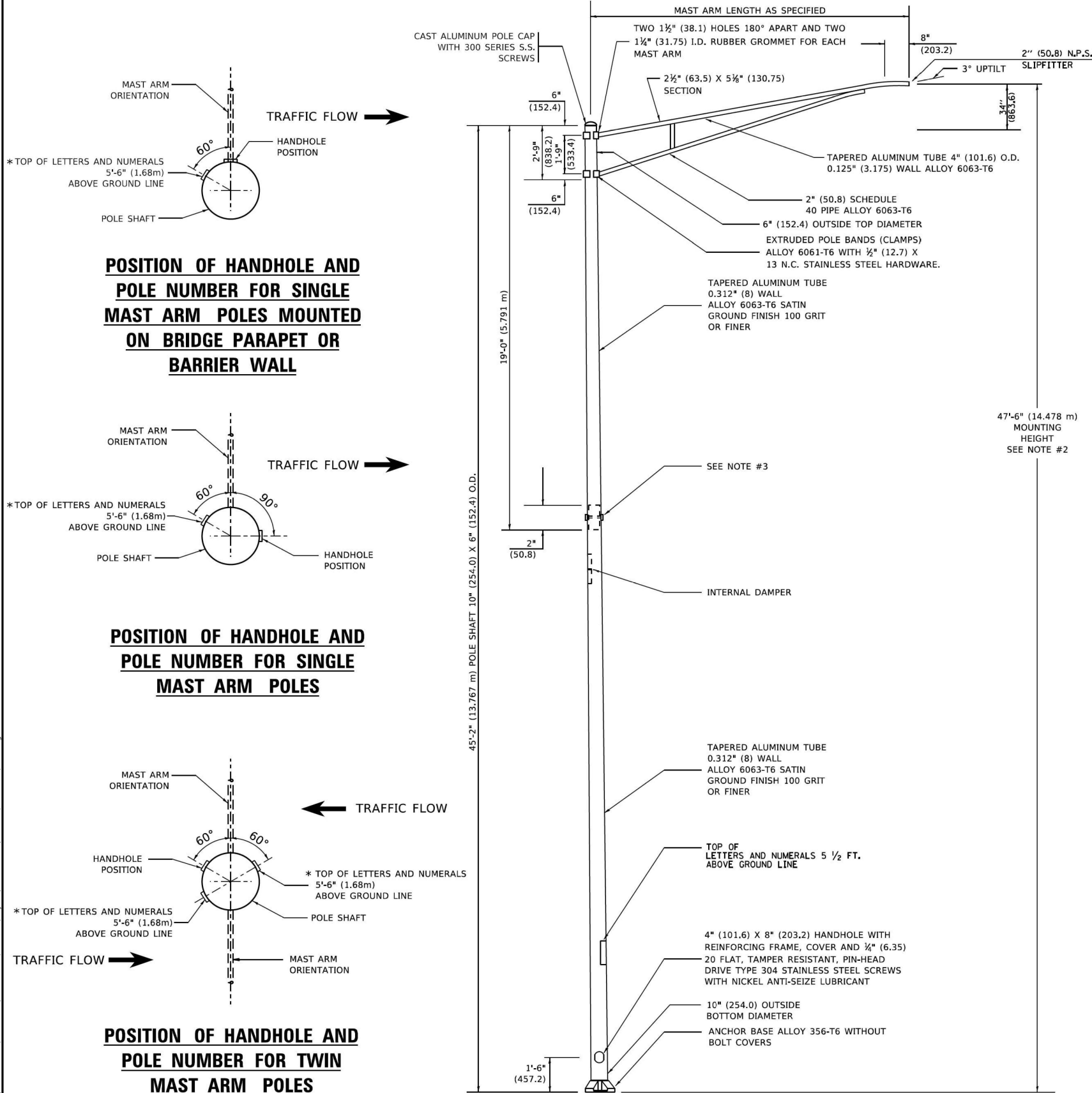
USER NAME = leysa	DESIGNED - <u>R. TOMSONS</u>	REVISED - _____	<div>STATE OF ILLINOIS</div> <div>DEPARTMENT OF TRANSPORTATION</div>	<div>LIGHTING CONTROLLER, BASE MOUNTED,</div> <div>480VOLT, 200AMP (DUAL) RADIO SCADA – FIBER OPTIC PROVISION</div>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - _____	REVISED - _____						80.	<u>FAI 80 23 LIGHTING</u>	<u>WILL</u>	<u>49</u>	<u>36</u>
PLOT SCALE = 50,0000' / in.	CHECKED - _____	REVISED - _____		<div>BE-206</div>				<div>CONTRACT NO. 62W15</div>				
PLOT DATE = 1/15/2020	DATE - <u>01-15-2020</u>	REVISED - _____										
			SCALE: NONE	SHEET 4	OF 4	SHEETS	STA. _____	TO STA. _____				



POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11½"	8¾"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11½"	8¾"	6 FT.	12"x12"x1"
36 FT.-40FT.	15"	8 ⁵ / ₈ "	6 FT.	15"x15"x1¼"
41 FT.-45 FT.	15"	8 ⁵ / ₈ "	6 FT.	15"x15"x1¼"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1¼"

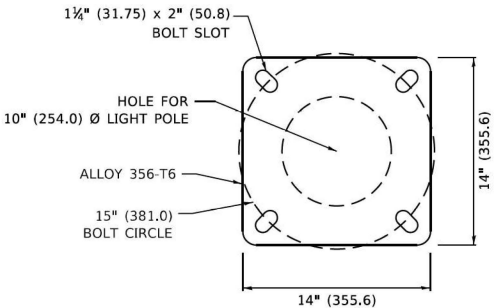
ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M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

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED 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.

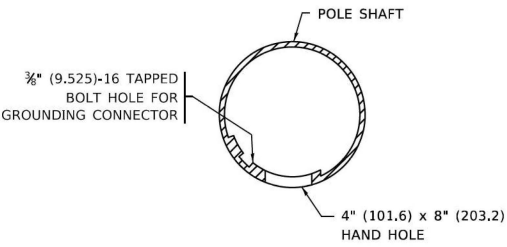


NOTES

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



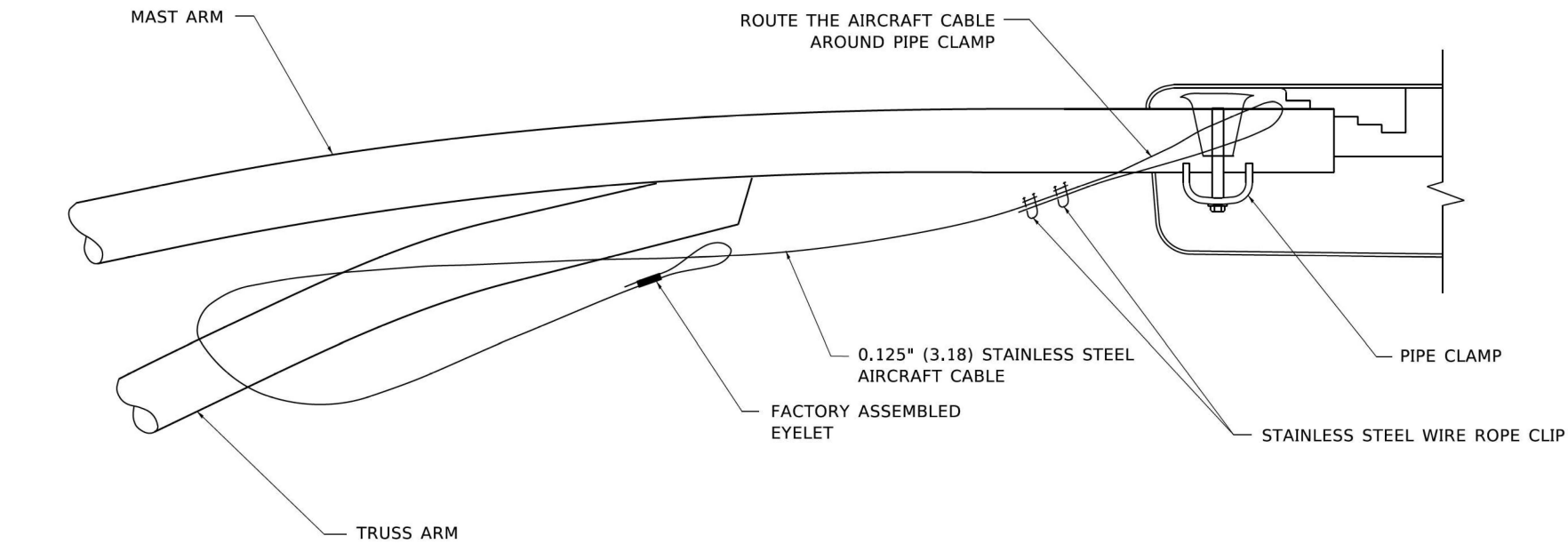
LIGHT POLE BASE PLATE DETAIL



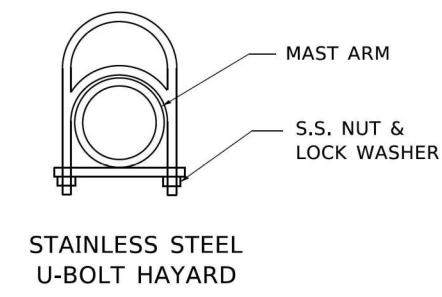
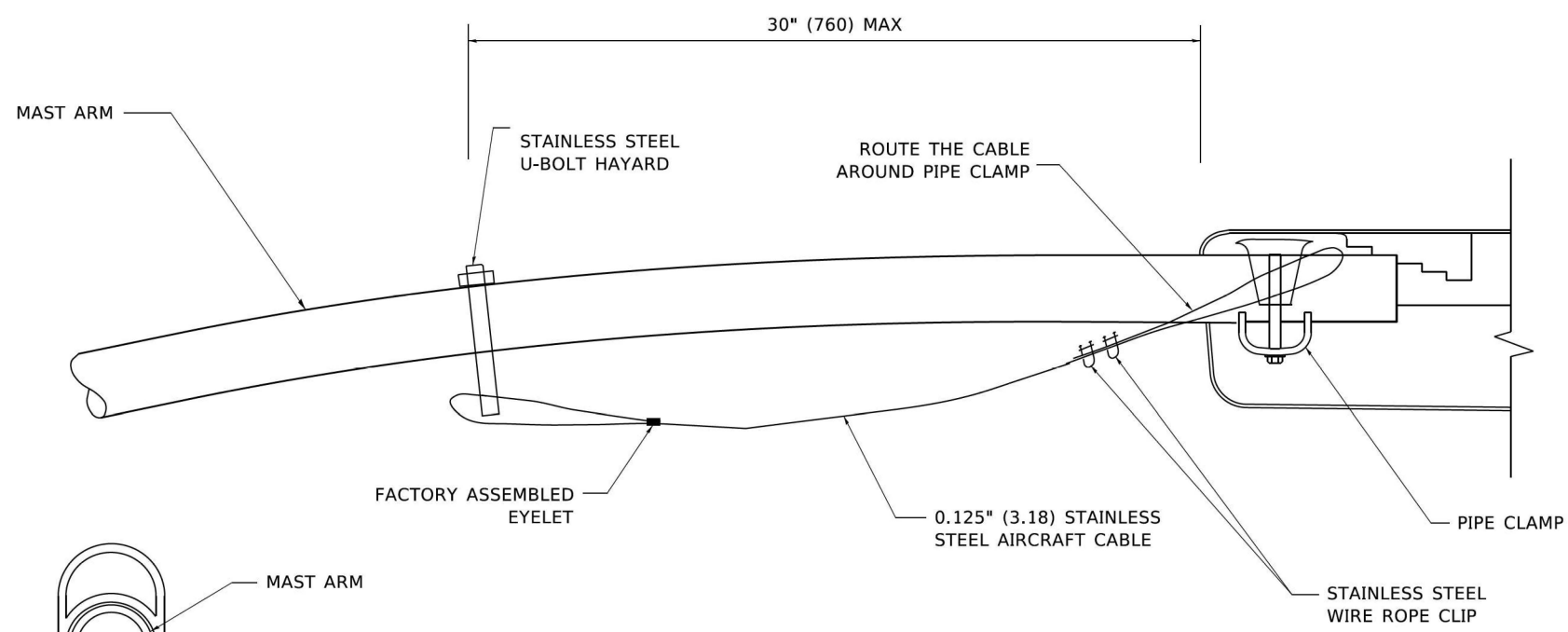
HANDHOLE DETAIL (N.T.S.)

	USER NAME = Lawrence,DeManche	DESIGNED -	REVISED - R. TOMSONS 01-18-13	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALUMINUM LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. TOMSONS 03-18-15						80	FAI 80 23 LIGHTING	WILL	49	39
	PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - TG 06-13-22						BE-400		CONTRACT NO. 62W15		
	PLOT DATE = 12/19/2023	DATE -	REVISED - R. TOMSONS 12-19-23		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.				
											ILLINOIS	FED. AID PROJECT	

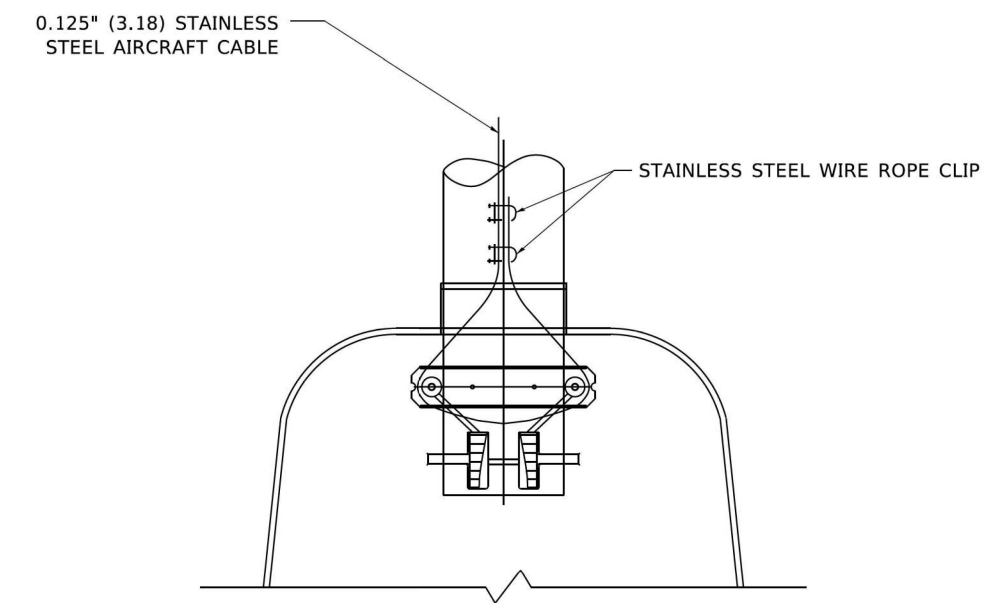
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SIDE VIEW (TRUSS ARM)
N.T.S.



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



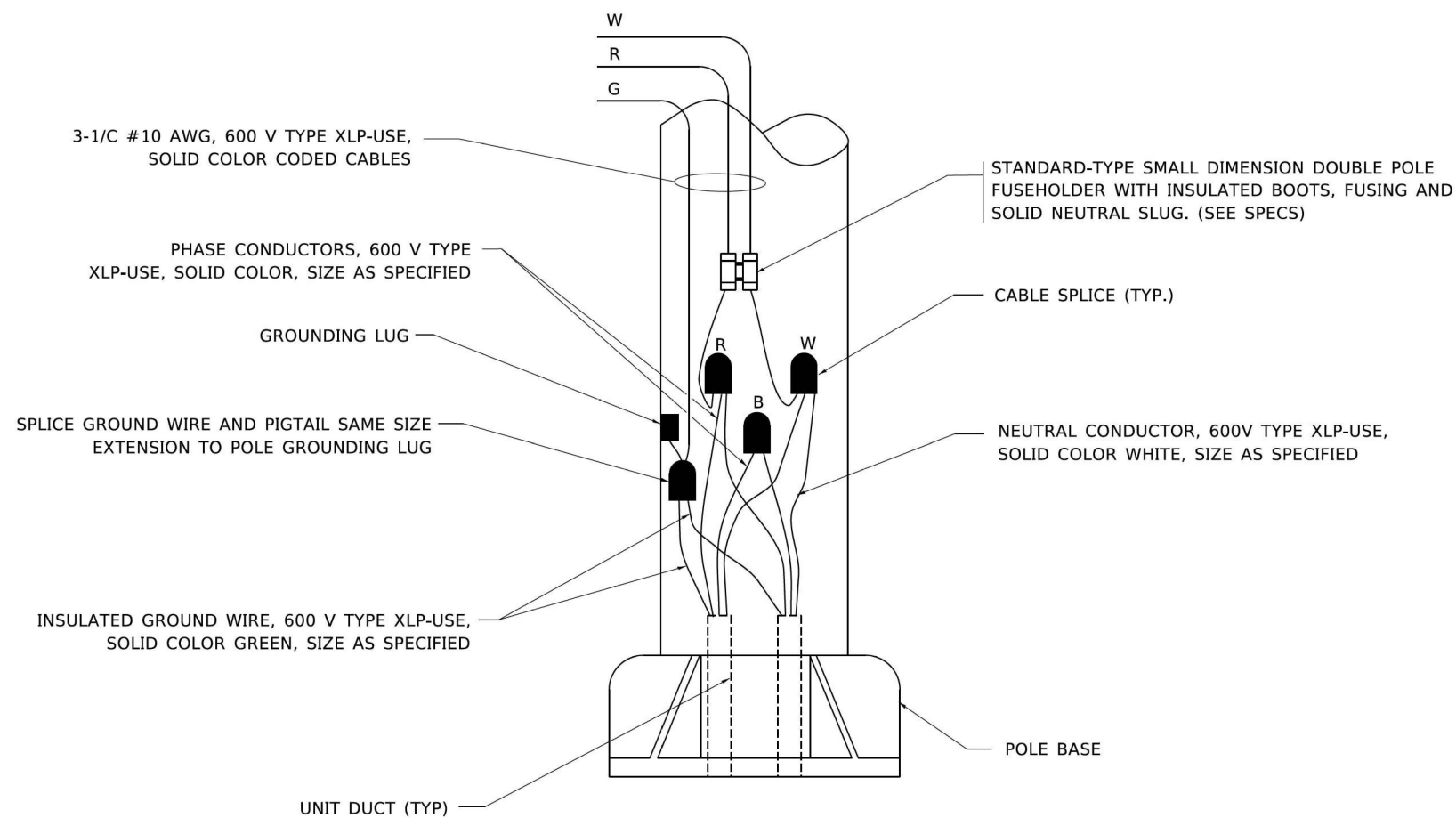
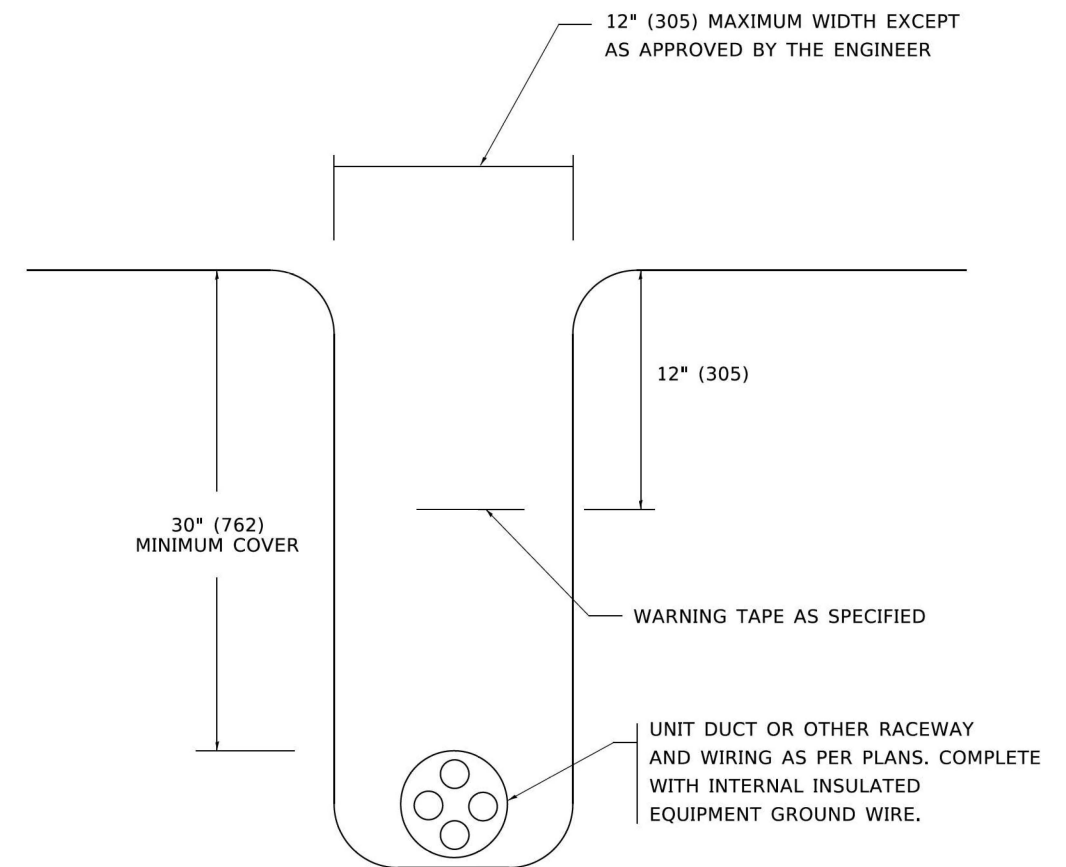
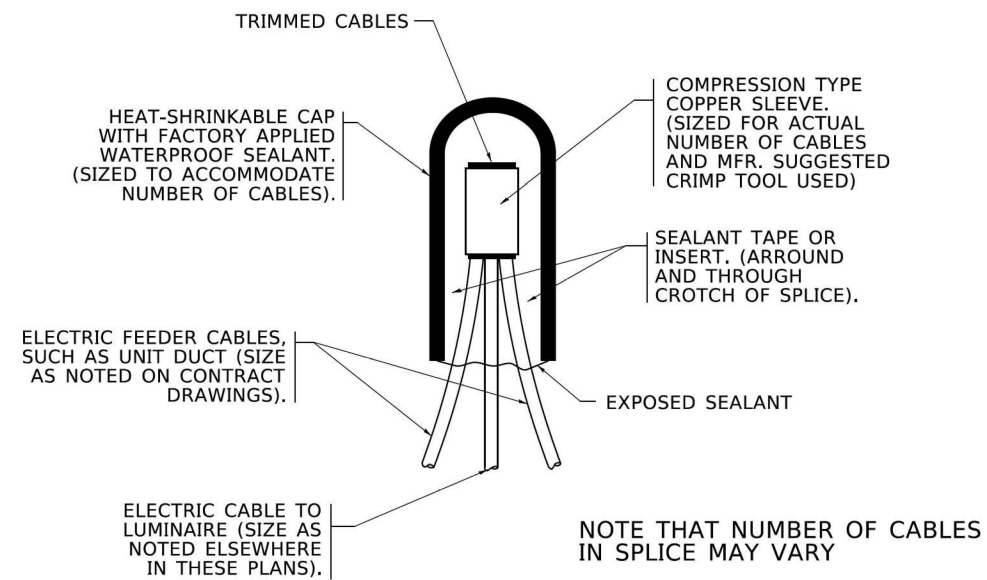
BOTTOM VIEW
N.T.S.

NOTES:

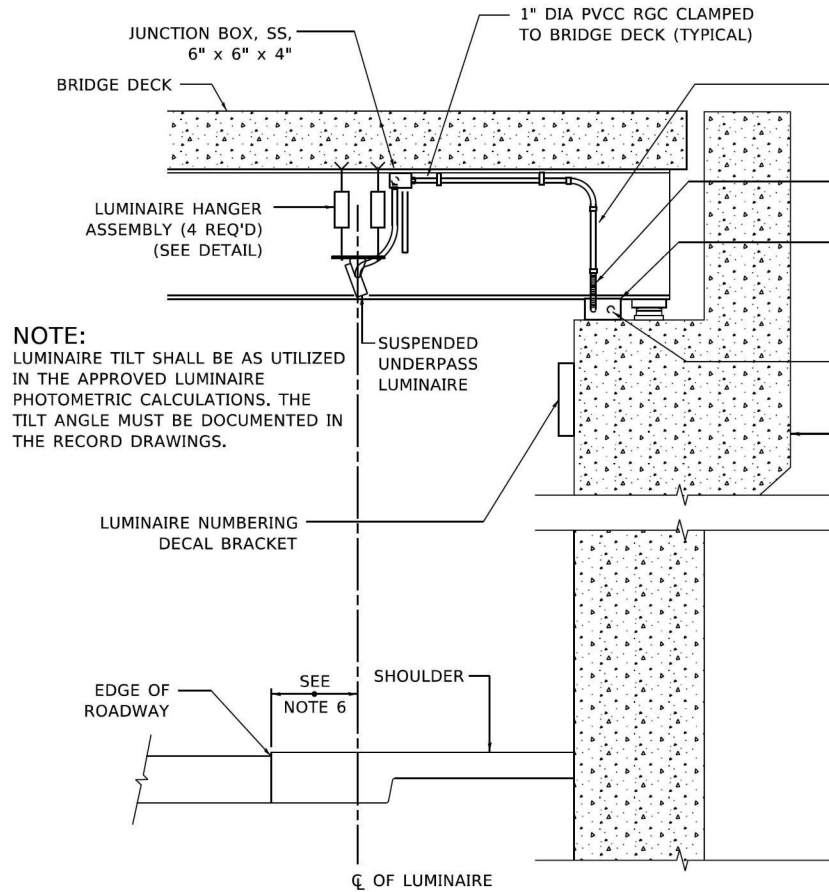
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700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

SD-08

FILE NAME: DWG	USER NAME = footem]	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LUMINAIRE SAFETY CABLE ASSEMBLY				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						80	FAI 80 23 LIGHTING	WILL	49	40
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -						BE-701		CONTRACT NO. 62W15		
	PLOT DATE = 4/19/2019	DATE -	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.			ILLINOIS	FED. AID PROJECT	

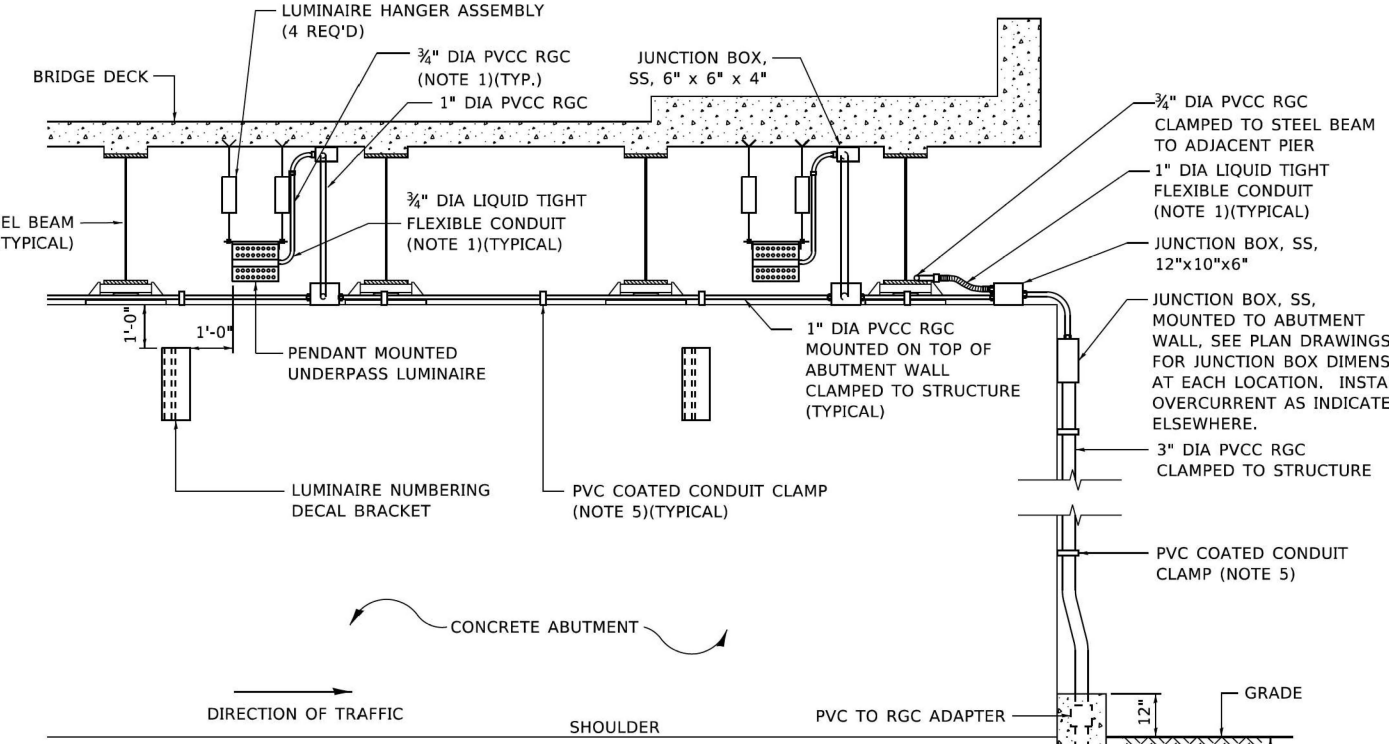


FILE NAME: DWG	USER NAME = lleya	DESIGNED -	REVISED - 02/04/2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISC. ELECTRICAL DETAILS SHEET A				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						80	FAI 80 23 LIGHTING	WILL	49	41
	PLOT SCALE = 50,0000 ' / in.	CHECKED -	REVISED -		BE-702				CONTRACT NO. 62W15				
	PLOT DATE = 3/2/2020	DATE = 08/08/2003	REVISED -		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.				

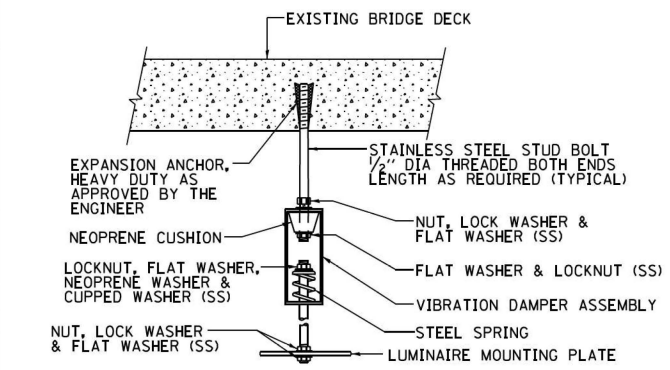


NOTE:
LUMINAIRE TILT SHALL BE AS UTILIZED IN THE APPROVED LUMINAIRE PHOTOMETRIC CALCULATIONS. THE TILT ANGLE MUST BE DOCUMENTED IN THE RECORD DRAWINGS.

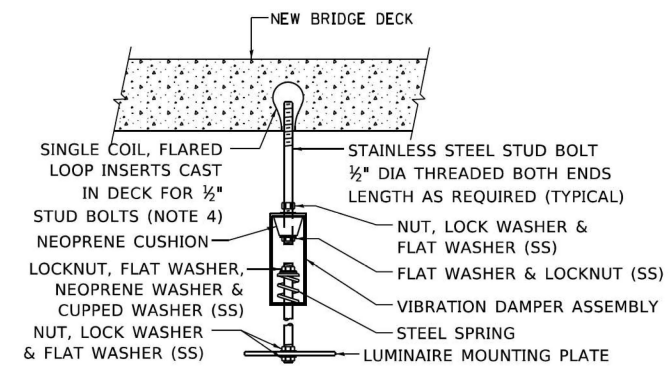
1" DIA PVCC RGC CLAMPED TO BRIDGE DECK (TYPICAL)
1" DIA PVCC RGC CLAMPED TO STRUCTURE TO ADJACENT JUNCTION BOX
1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (NOTE 1)(TYPICAL)
JUNCTION BOX, SS, 12" X 10" X 6"
1" DIA PVCC RGC CLAMPED TO STRUCTURE TO ADJACENT JUNCTION BOX
CONCRETE ABUTMENT



- NOTES:**
1. LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT " DIA. CONDUIT AND " DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
 2. SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
 3. THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
 4. THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
 5. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
 6. ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS
 7. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
 8. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.
 9. IN NO INSTANCE SHALL ANY UNDERPASS LUMINAIRE OR ANY OTHER ELECTRICAL EQUIPMENT BE INSTALLED BELOW THE ELEVATION OF THE BOTTOM OF THE BRIDGE BEAM WHEN OVER ANY PAVEMENT (ROADWAY OR SHOULDER).

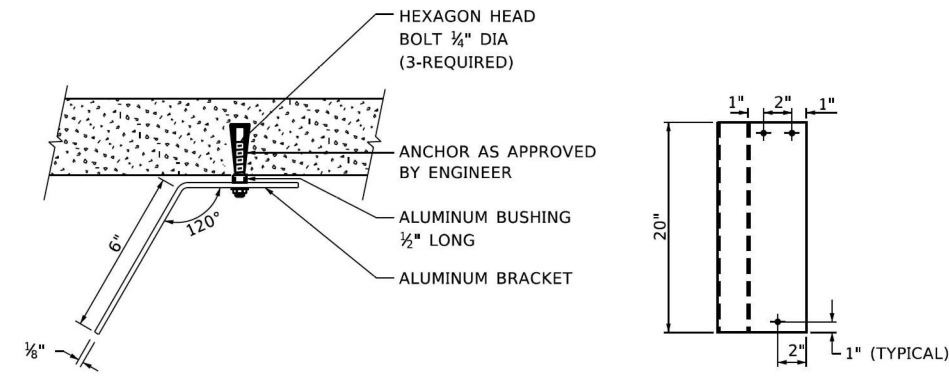


EXISTING BRIDGE DECK INSTALLATION

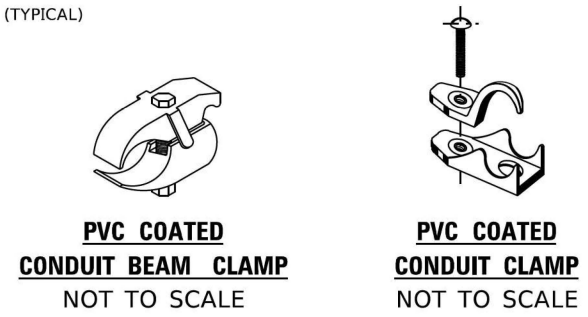


NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS



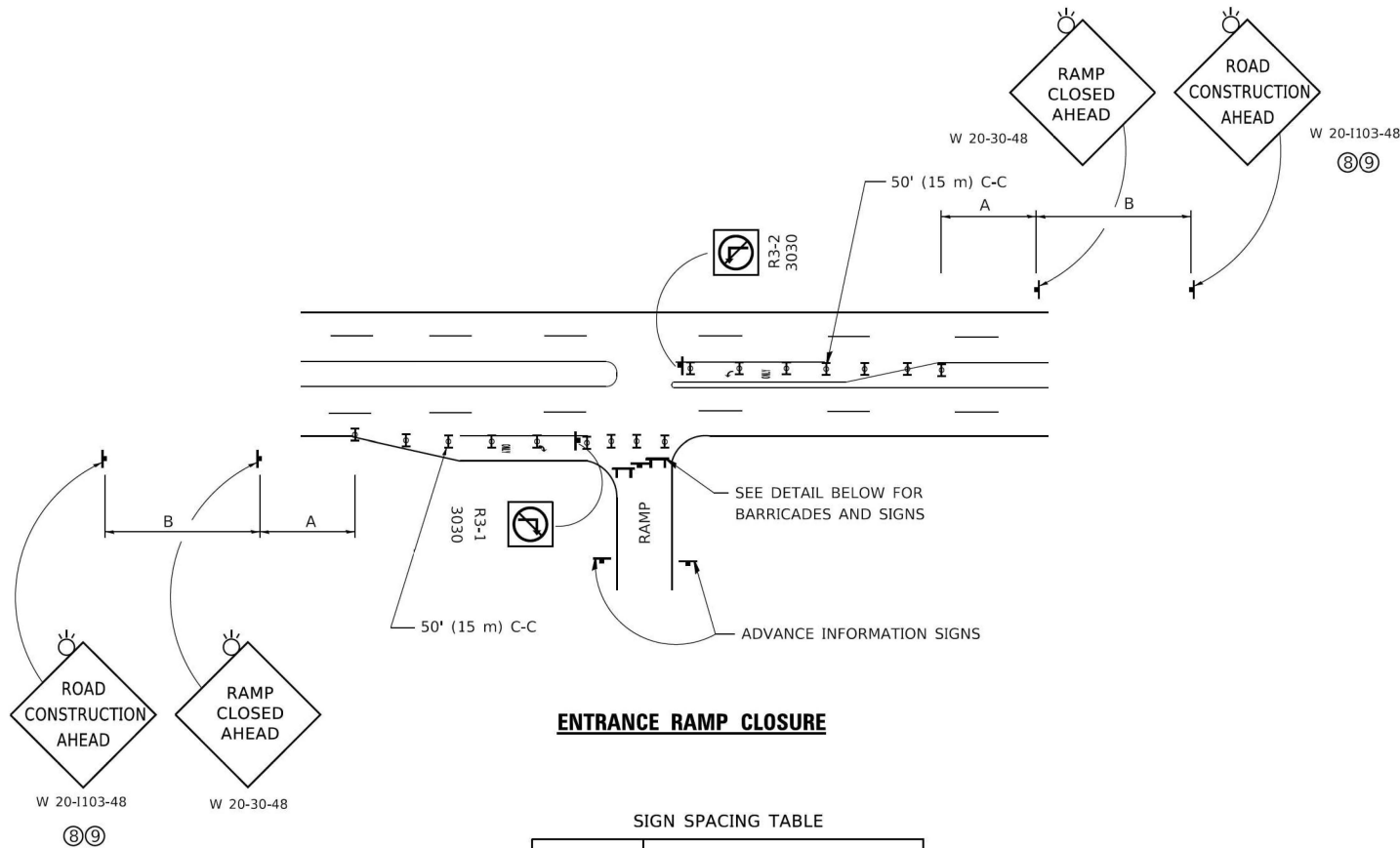
LUMINAIRE NUMBERING DECAL BRACKET
NOT TO SCALE



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	USER NAME = gaglianobt	DESIGNED -	REVISED - 12-12-05	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN -	REVISED -						80	FAI 80 23 LIGHTING	WILL	49	42		
	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -						BE-901					CONTRACT NO. 62W15	
	PLOT DATE = 1/15/2020	DATE -	REVISED -						ILLINOIS FED. AID PROJECT						
									SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.			

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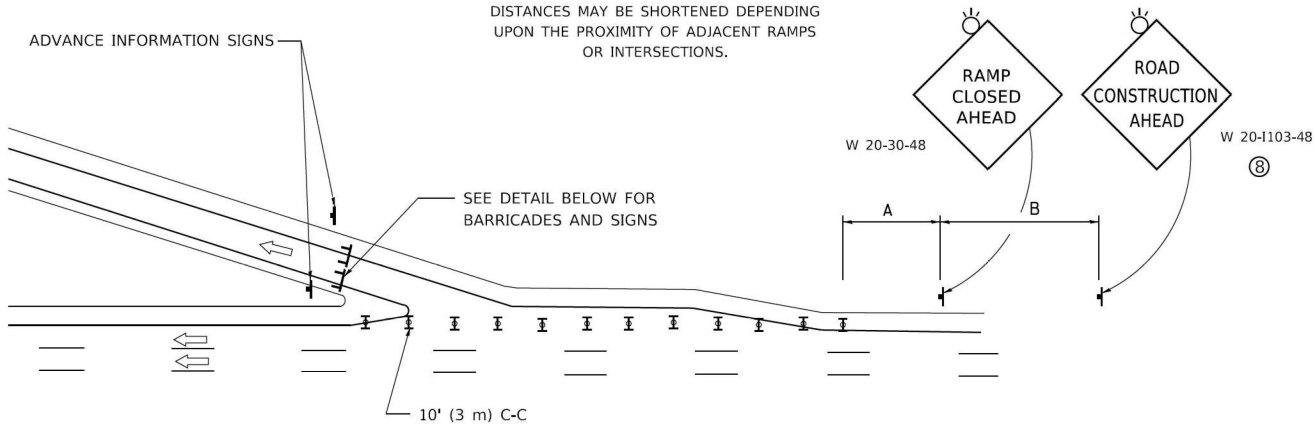


ENTRANCE RAMP CLOSURE

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)

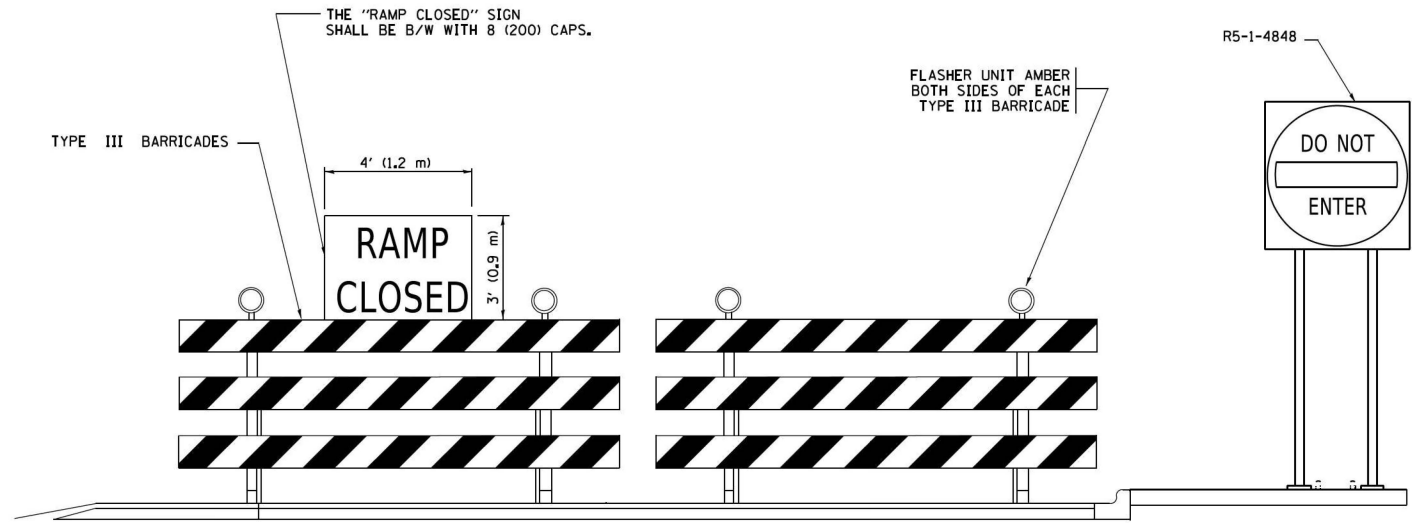
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

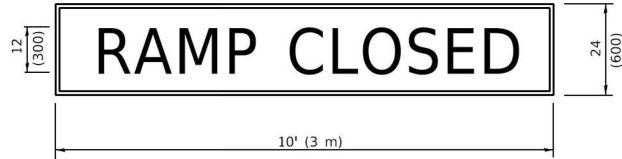
SYMBOLS

- TYPE II BARRICADE OR DRUM
- TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

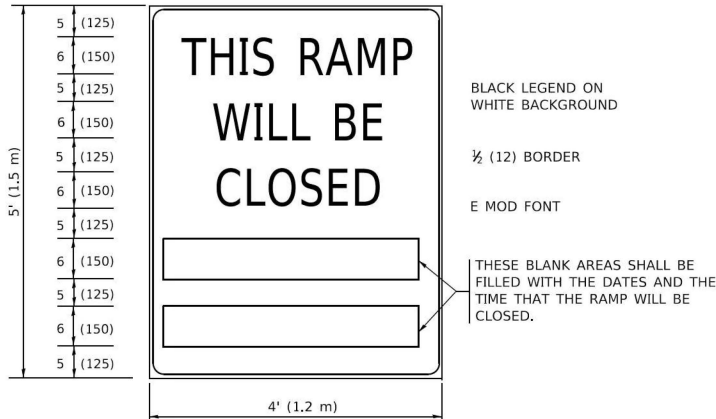
RAMP CLOSURE ADVANCE WARNING SIGN



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:

- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- 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.
- THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- 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.
- 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.
- 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.

SD-11

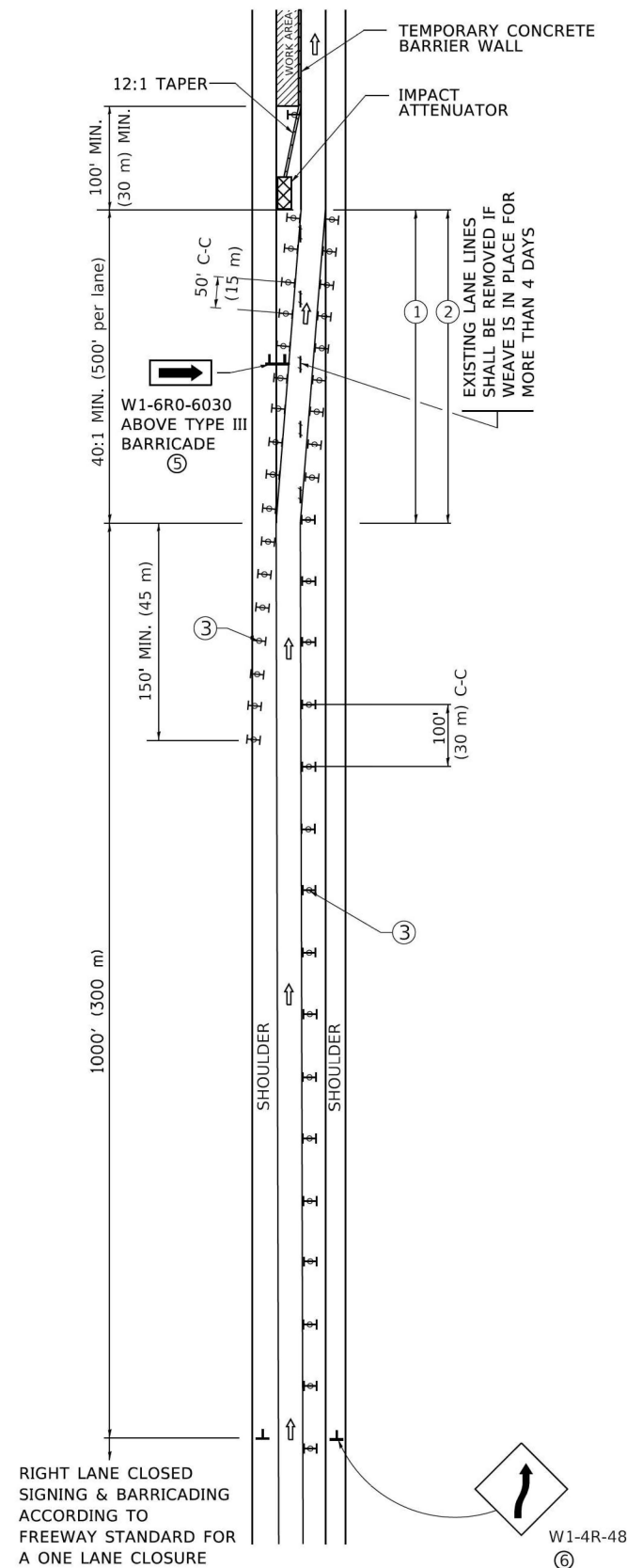
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE AND EXIT RAMP
CLOSURE DETAILS

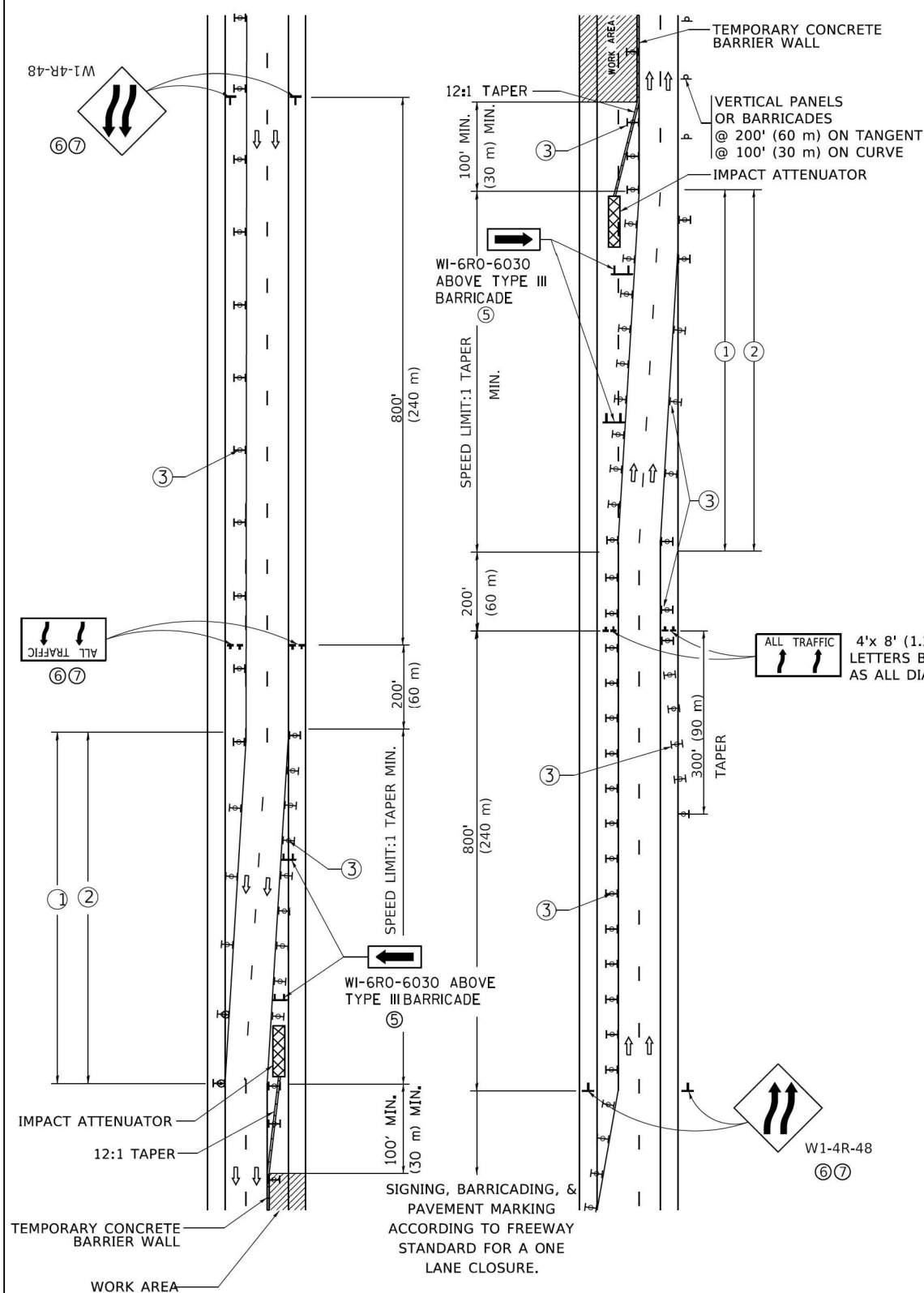
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-08		CONTRACT NO. 62W15		
		ILLINOIS	FED. AID PROJECT	

SINGLE LANE WEAVE










MULTI-LANE WEAVE



- GENERAL NOTES:

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② 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.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ 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.
- ⑥ 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.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- | | |
|---|--|
|  | DIRECTION OF TRAFFIC |
|  | WORK AREA |
|  | SIGN ON PORTABLE OR PERMANENT SUPPORT |
|  | TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT |
|  | TEMPORARY CONCRETE BARRIER WALL |
|  | IMPACT ATTENUATOR |
|  | W24-1-48 |

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN

SD-12

USER NAME = footemj	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06
	DRAWN -	REVISED - S.P.B. 01-07
PLOT SCALE = 50,0000 ' / in.	CHECKED -	REVISED - S.P.B. 12-09
PLOT DATE = 3/4/2019	DATE = 02-87	REVISED - M.D. 06-13

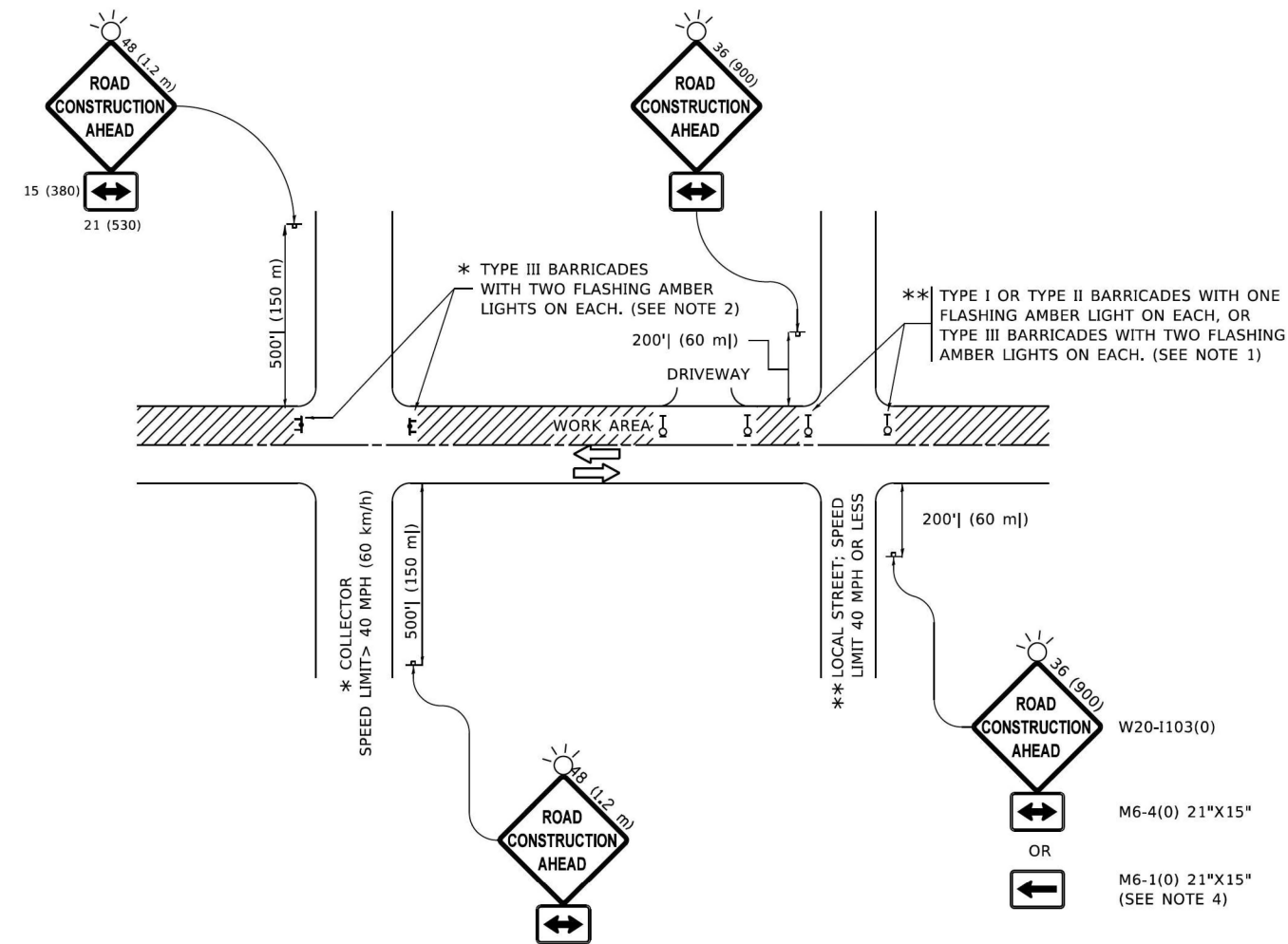
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE

SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	44
TC-09		CONTRACT NO. 62W15		
	ILLINOIS	FED. AID PROJECT		

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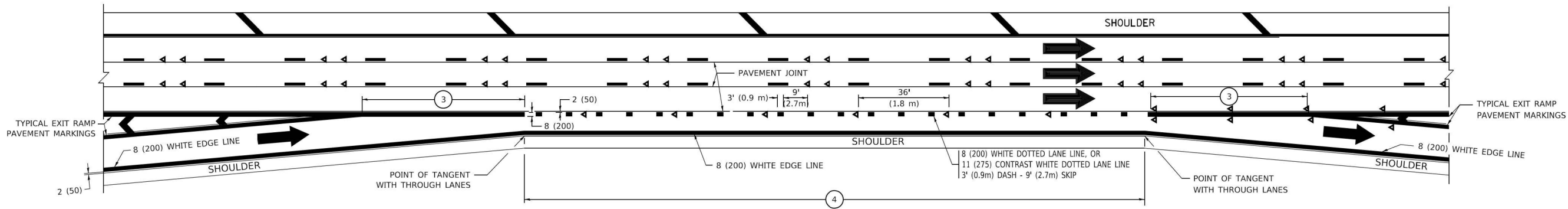


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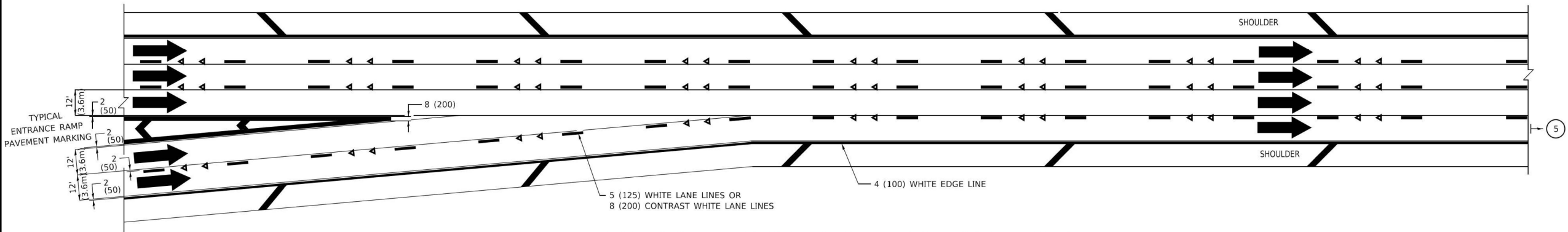
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 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).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown. **SD-13**

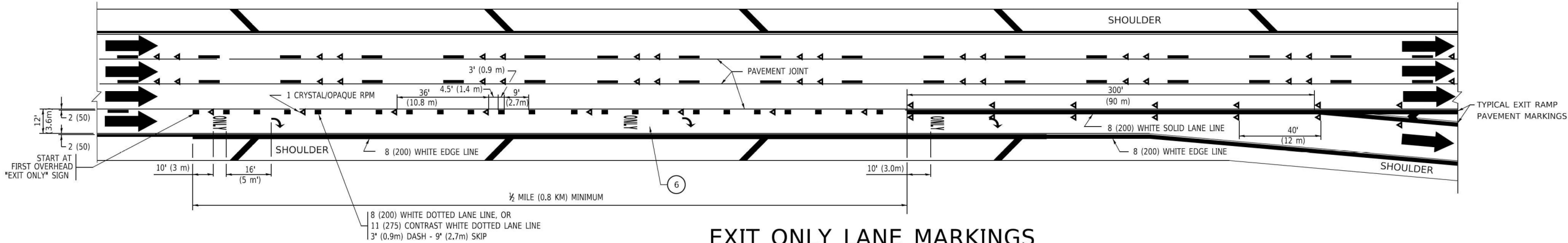
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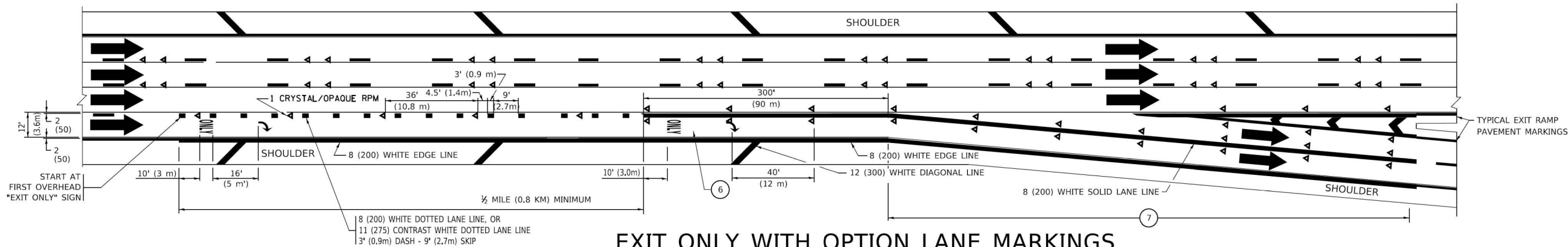
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES:**
- 3 OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - 4 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - 5 FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - 6 ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED..
 - 7 CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

SD-15

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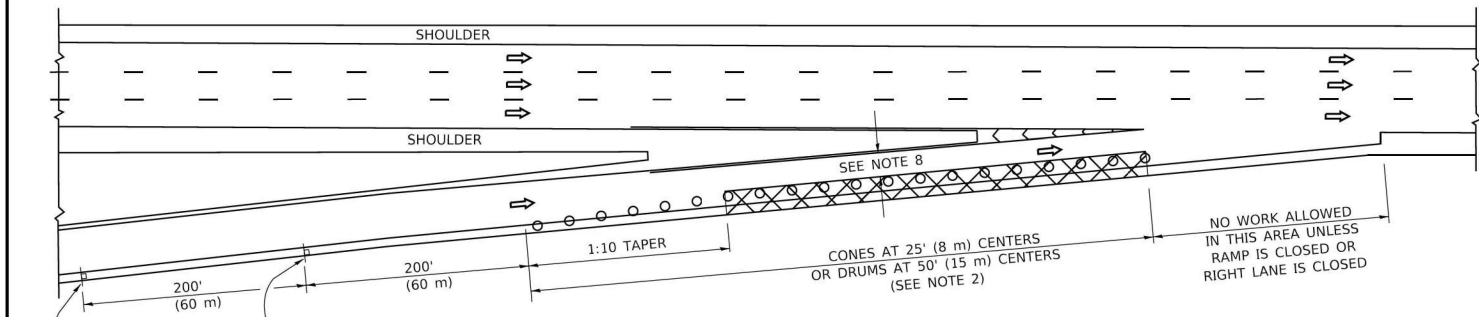
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

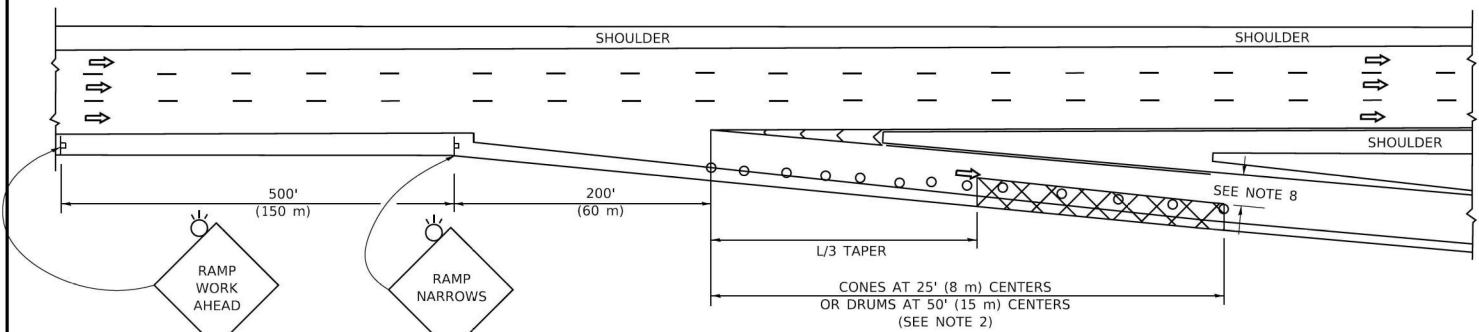
SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	47
TC-12		CONTRACT NO. 62W15		
		ILLINOIS FED. AID PROJECT		

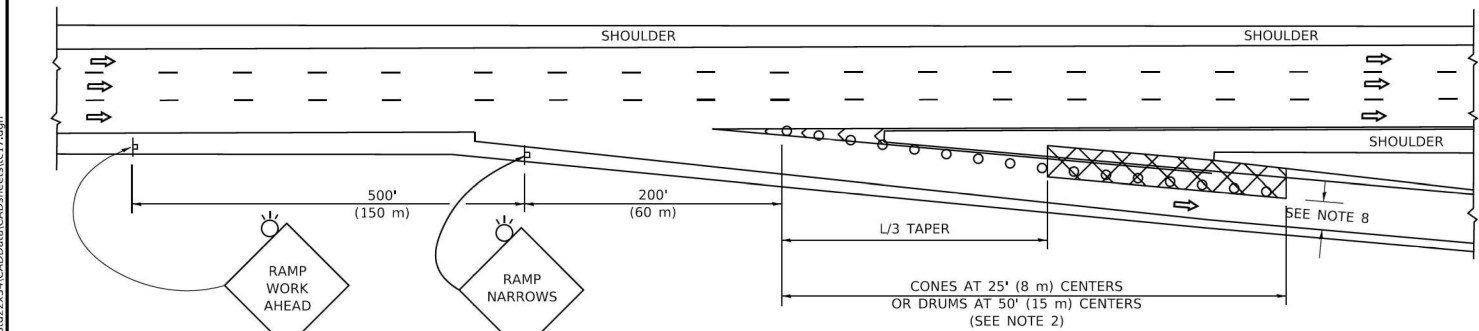
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

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

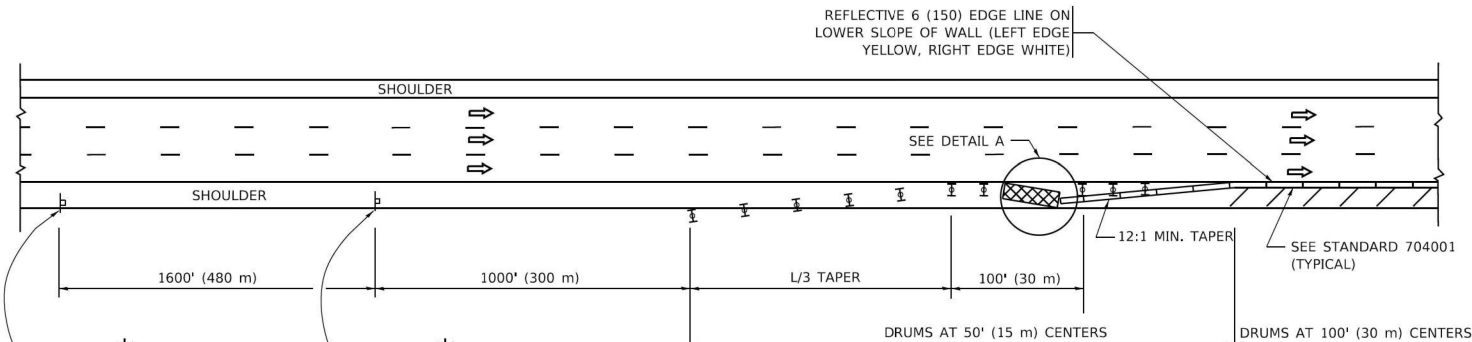
GENERAL NOTES:

- THE "L" DISTANCE EQUALS:

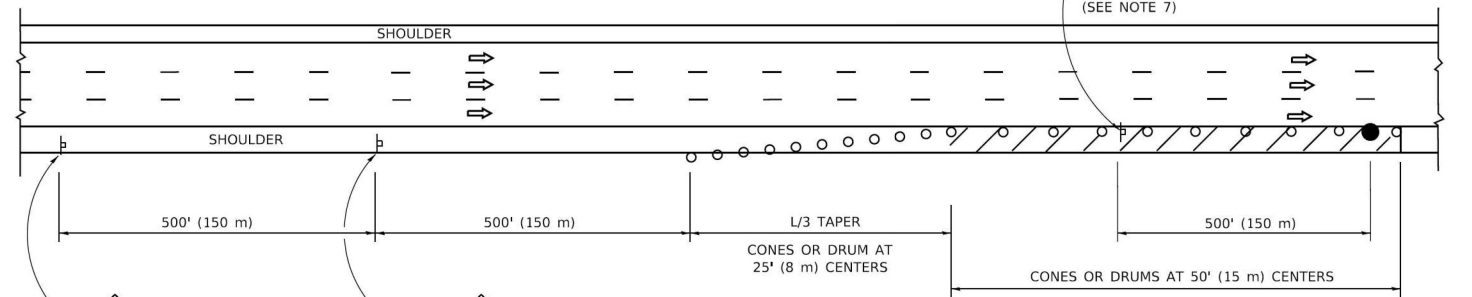
$L = \frac{WS}{15}$	$L = \frac{WS}{30}$
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER	$L = 0.65(W)(S)$ $L = (W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)
- TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

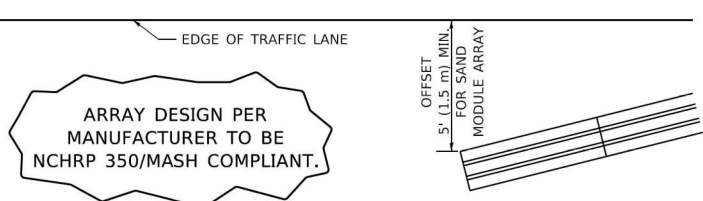


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

- THIS DETAIL IS USED WHERE:
- 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)

- 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.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
- THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - 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.
- 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

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

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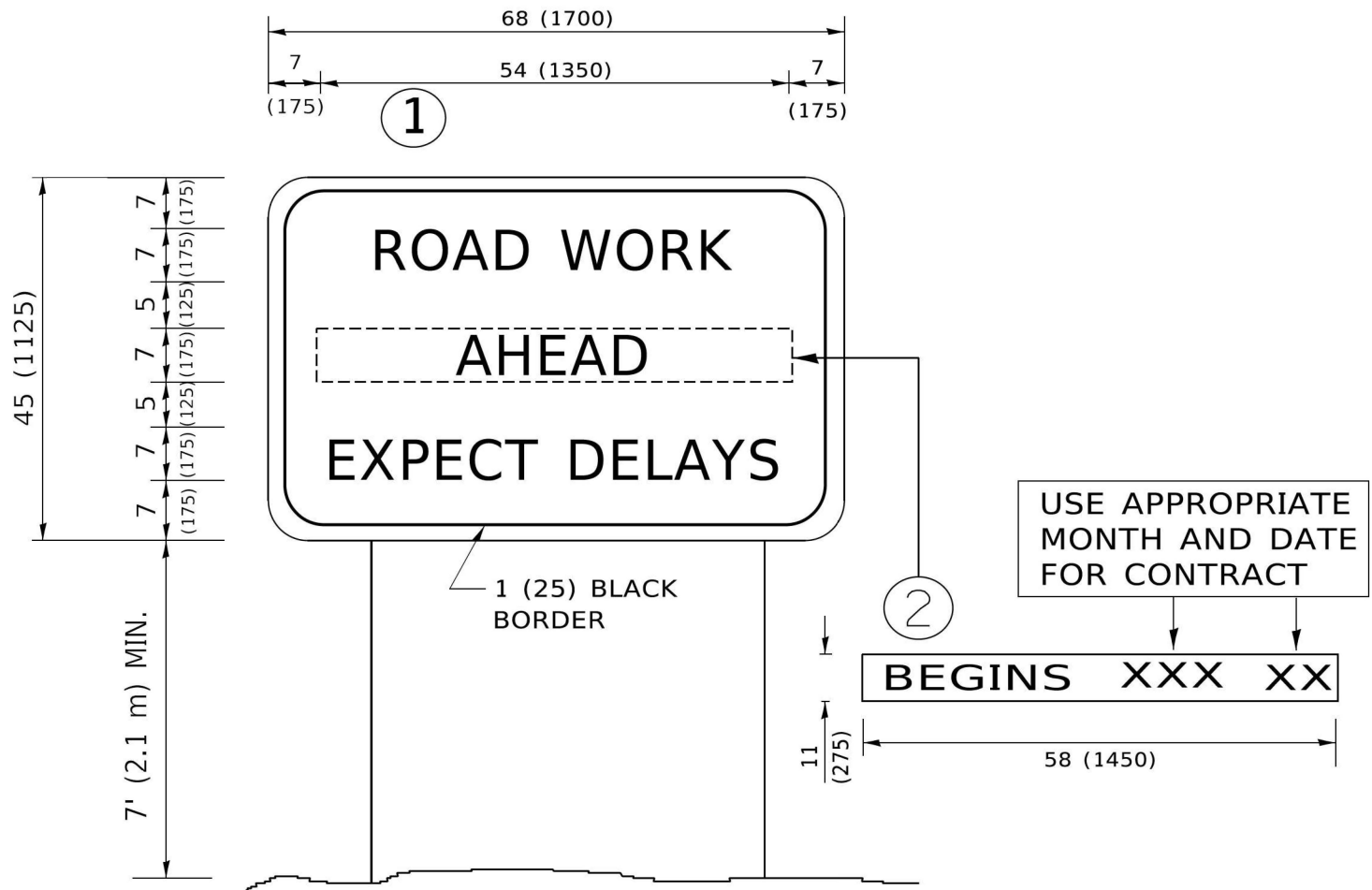
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	PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
INFORMATION SIGN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 23 LIGHTING	WILL	49	49
TC-22		CONTRACT NO. 62W15		
ILLINOIS		FED. AID PROJECT		



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN①WITH INSTALLED PANEL②ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL②SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

SD-17