

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	1
		ILLINOIS	CONTRACT NO. 76M86	

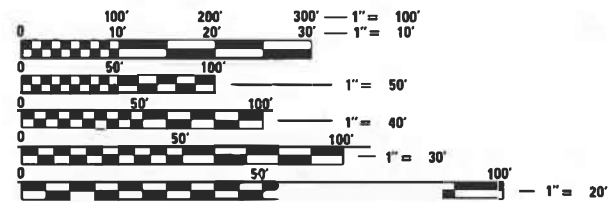
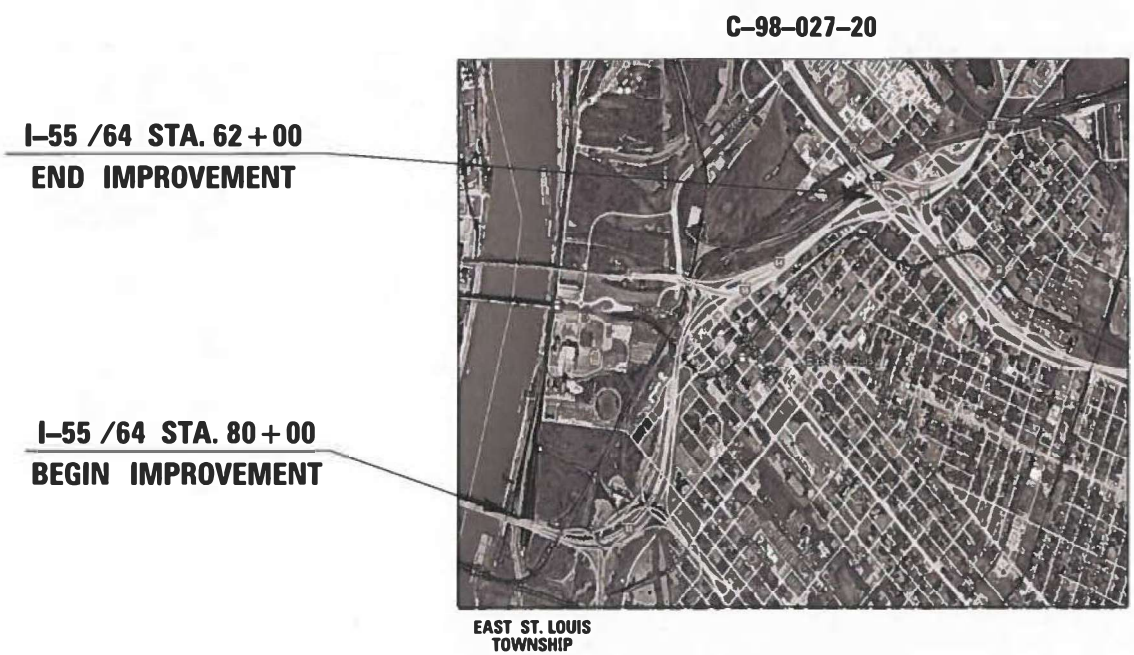
FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

**TRAFFIC DATA**  
POPLAR ST. BRIDGE 67,300  
I-55 /64 58,100 TO 105,300  
POSTED SPEED LIMIT  
POPLAR ST. BRIDGE I-55/70 50 MPH  
I-55/70 TO I-64 55 MPH  
FUNCTIONAL CLASSIFICATION:  
INTERSTATE

**MUNICIPALITY:**  
CITY OF EAST ST. LOUIS

STATE OF ILLINOIS 04-26-2024 LETTING ITEM I21  
DEPARTMENT OF TRANSPORTATION  
**PROPOSED  
HIGHWAY PLANS**

FAI 70 (I-55 /70 /64)  
SECTION 82-3, 4HL-4  
PROJECT HSIP-ZVSK (274)  
HIGH MAST LIGHT TOWER REPLACEMENT  
FROM MISSISSIPPI RIVER TO  
I-64 (TRI-LEVEL) INTERCHANGE  
ST. CLAIR COUNTY



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.

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

PROJECT ENGINEER: RICHARD BARBEE  
PROJECT MANAGER: CHERYL KEPLAR  
ELECTRICAL SERVICES SUPERVISOR: KENNETH DAVIS  
CONTRACT NO. 76M86

PROFESSIONAL ENGINEER'S SIGN & SEAL  
FOR SHEETS: 1-37, 43-51  
BRENDA D LOWERY, P.E.  
EXPIRES 11-30-2025

PROFESSIONAL ENGINEER'S SIGN & SEAL  
FOR SHEETS: 38-42  
GARY BAKER P.E.  
EXPIRES 11-30-2025

**LOCATION MAP**  
(NOT TO SCALE)

**PROJECT LENGTH:**  
GROSS LENGTH = 14,693 FT = 2.78 MILES  
NET LENGTH = 14,693 FT = 2.78 MILES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED: *Jan 31 2024*  
*Kenneth Brown*  
REGIONAL ENGINEER

March 22, 2024  
*Steph M. Davis*  
ENGINEER OF DESIGN AND ENVIRONMENT

March 22, 2024  
*Steph M. Davis*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

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

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**HIGHWAY STANDARDS**

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
630001-13	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
664001-02	CHAIN LINK FENCE
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) 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
701428-01	TRAFFIC CONTROL SET UP AND REMOVAL FREEWAY/EXPRESSWAY
701446-11	TWO LANE CLOSURE, FREEWAY / EXPRESSWAY
701451-05	RAMP CLOSURE FREEWAY/EXPRESSWAY
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701901-09	TRAFFIC CONTROL DEVICES.
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
821101-02	LUMINAIRE WIRING IN POLE
825026-04	LIGHTING CONTROLLER BASE MOUNT 480V
835001-02	LIGHT TOWER
837001-05	LIGHT TOWER FOUNDATION

**GENERAL NOTES**

1. ANY NOTIFICATION TO ANY AGENCY MUST BE MADE THROUGH THE CONSTRUCTION MANAGER. NOTIFICATION SHALL BE MADE TO THE AGENCIES AND UTILITIES AT LEAST 10 DAYS PRIOR TO ANY CONSTRUCTION IN THE AREA AND SHALL COMPLY WITH ALL RESTRICTIONS FOR EQUIPMENT MOVEMENTS AND CLEARANCES IN REGARDS TO THEIR FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL EMERGENCY SERVICE, PUBLIC WORKS DEPARTMENTS AND OTHER AGENCIES AFFECTED BY THE CONTRACTOR'S WORK.
2. ILLINOIS STATE LAW REQUIRES A 48 HOUR NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY.

UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA:

- AMEREN ILLINOIS ELECTRIC
- AT&T
- BI-STATE DEVELOPMENT AGENCY
- CHARTER/SPECTRUM COMM
- CITY OF EAST ST. LOUIS
- CLEARWAVE COMMUNICATIONS
- IL AMERICAN WATER EAST ST. LOUIS
- LEVEL 3 (CENTURYLINK)
- MCI/VERIZON
- MEDIACOM
- SPIRE NGL INC
- STAKE CENER LOCATING
- USIC LOCATING SERVICES
- WINDSTREAM KDL/MCLEOD USA
- ZAYO FIBER SOLUTIONS

3. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
5. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUBCONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM IT'S FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSE WORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS US, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 619-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
6. A FULL SURVEY WAS NOT PERFORMED AND THE PLANS WERE CREATED USING MICROFILM, FIELD MEASUREMENTS AND SUPPLEMENTAL SURVEY.

**COMMITMENTS**

NONE

REV. - MS

GN-01

MODEL: 4\MODEL\MAME  
FILE: MAME.D2\BMS6\light-gen.dgn

**AMES Engineering, Inc.**  
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8330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdeitche	DESIGNED - BL	REVISED -
	DRAWN - MD	REVISED -
PLOT SCALE = 2.0001' / in.	CHECKED - MH	REVISED -
PLOT DATE = 1/25/2024	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES &amp; COMMITMENTS</b>			
<b>FAI 70 (I-55 /064)</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	2
			CONTRACT NO. 76M86	
		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTR. CODE	
				0021	90% FED 10% STATE
20200100	EARTH EXCAVATION	CU YD	24	24	
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	375	375	
66400105	CHAIN LINK FENCE, 4'	FOOT	30	30	
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1382	1382	
66900530	SOIL DISPOSAL ANALYSIS	EACH	22	22	
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	113	113	
67100100	MOBILIZATION	L SUM	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	165	165	
80400100	ELECTRIC SERVICE INSTALLATION	EACH	5	5	
81028790	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	2545	2545	

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTR. CODE	
				0021	90% FED 10% STATE
81100462	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., STAINLESS STEEL	FOOT	500	500	
81300810	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 8"	EACH	5	5	
81603032	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	22503	22503	
82110015	LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	166	166	
82500360	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	EACH	4	4	
82500380	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP	EACH	1	1	
83502500	LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8	EACH	22	22	
83503400	LIGHT TOWER, 110 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 6	EACH	3	3	
83504200	LIGHT TOWER, 120 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 3	EACH	3	3	
83505400	LIGHT TOWER, 130 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 6	EACH	7	7	
83506500	LIGHT TOWER, 140 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 4	EACH	2	2	
83509100	LIGHT TOWER, 160 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8	EACH	6	6	
83700300	LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	449	449	
83700350	LIGHT TOWER FOUNDATION, 54" DIAMETER	FOOT	259	259	

MODEL: AMDELMAME  
FILE: NAME: 07202401-500.dwg

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
FAI 70 (I-55 /064)**

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

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76M86	

REV. - MS

**S0-01**

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTR. CODE	
				0021	90% FED 10% STATE
83700400	LIGHT TOWER FOUNDATION, 60" DIAMETER	FOOT	144	144	
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	24	24	
84200605	REMOVAL OF LIGHTING TOWER, NO SALVAGE	EACH	40	40	
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	6	6	
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	6	6	
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	6	6	
X1400273	REMOVAL OF EXISTING TOWER LUMINAIRE, NO SALVAGE	EACH	6	6	
X3510416	AGGREGATE BASE COURSE, TYPE CA-16	TON	28.7	28.7	
X6640308	CHAIN LINK GATES (SPECIAL)	EACH	5	5	
X6640570	CHAIN LINK FENCE, 8" (SPECIAL)	FOOT	230	230	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X7050167	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	EACH	5	5	
X8420510	REMOVAL OF TOWER FOUNDATION	EACH	43	43	
Z0022800	FENCE REMOVAL	FOOT	30	30	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	

REV. - MS

SQ-02

MODEL: MODELNAME  
FILE: NAME.DWG  
FILE: NAME.DWG

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6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

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PLOT DATE = 1/25/2024	CHECKED - MH	REVISED -
	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
FAI 70 (I-55 /064)**

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

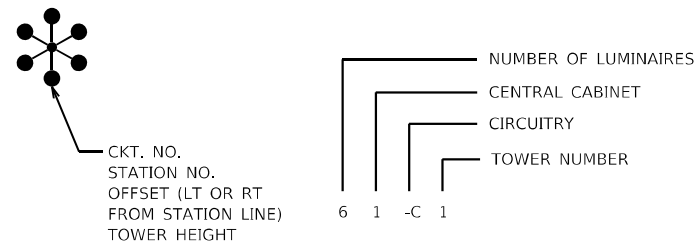
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	4
CONTRACT NO. 76M86			ILLINOIS FED. AID PROJECT	



**LIGHTING GENERAL NOTES:**

- THIS PROJECT INCLUDES THE INSTALLATION OF A NEW LIGHTING SYSTEM TO REPLACE THE EXISTING HIGH MAST LIGHTING ALONG FAI 70 (I-55/70/64) FROM MISSISSIPPI RIVER TO EAST OF I-64 (TRI-LEVEL) INTERCHANGE. PROPOSED LIGHTING SHALL BE OWNED AND MAINTAINED BY THE STATE OF ILLINOIS.
- THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRIC SERVICE WORK.
- THE QUANTITIES OF RACEWAY WHERE INDICATED ON THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
- THE CONTRACTOR SHALL NOTIFY I.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES PRIOR TO INSTALLATION OF LIGHT POLES AND CONDUITS. IF THERE IS A CONFLICT WITH THE LIGHT POLES/CONDUITS AS SHOWN ON PLANS, THE CONTRACTOR SHALL SUGGEST ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING ANY CONSTRUCTION WORK.
- TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
- LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
- ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE UL LISTED AND LABELED.
- THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREES ROOTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING LIGHT POLE FOUNDATIONS TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES. WHEN CONFLICTS ARE ENCOUNTERED, THE CONTRACTOR SHALL REQUEST TO RELOCATE THE FOUNDATION. THE NEW LOCATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- GROUND RODS SHALL BE INSTALLED AT EACH PROPOSED HIGH MAST LIGHT TOWER.
- EXISTING CONDUIT AND WIRING NOT IN USE SHALL BE ABANDONED UNLESS OTHERWISE CALLED OUT ON THE PLANS.

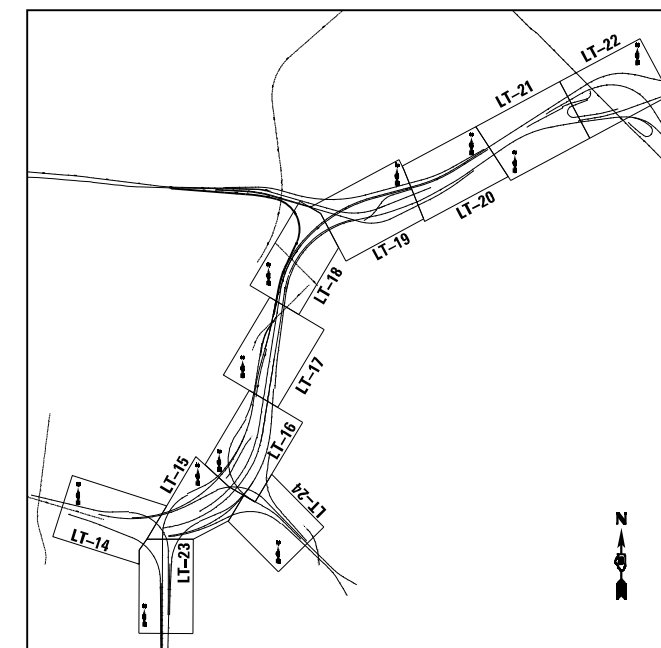
**CALL-OUT DESCRIPTIONS**



**LEGEND**

- EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED
- EXISTING HIGH MAST LIGHT TOWER FOUNDATION ONLY TO BE REMOVED
- EXISTING HIGH MAST LIGHT TOWER TO REMAIN IN PLACE
- PROPOSED HIGH MAST LIGHT TOWER (NUMBER OF LUMINAIRES AND AIMING AS INDICATED)
- EXISTING LIGHTING CONTROLLER TO BE REMOVED
- PROPOSED LIGHTING CONTROLLER
- EXISTING ITS CONTROLLER TO REMAIN
- EXISTING ELECTRIC SERVICE
- EXISTING UNDERPASS LUMINAIRE TO REMAIN
- UNIT DUCT 2-1C NO. 4 1/C NO. 6 GROUND, 1/4" DIA. POLYETHYLENE
- UNIT DUCT INSTALLED UNDERGROUND BENEATH STRUCTURE
- UNDERGROUND COILABLE NON METALLIC CONDUIT 4" DIA.
- STAINLESS STEEL CONDUIT ATTACHED TO STRUCTURE
- GROUND ROD
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x12"x8"

**KEY MAP**



LTN-01

MODEL NAME: D:\BEN\NAME FILE NAME: D:\BEN\LTN-01.dgn

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USER NAME = mdlrtche	DESIGNED - BL	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING GENERAL NOTES, KEY MAP AND LEGEND  
FAI 70 (I-55 /70/64)**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	5
CONTRACT NO. 76M86			ILLINOIS FED. AID PROJECT	

LIGHT TOWER REMOVAL SCHEDULE

TOWER NO.	CONTROLLER	SHEET NO.
ML-1	1	LT-01
ML-2	1	LT-02
ML-3	1	LT-02
ML-4	2	LT-03
ML-5	2	LT-03
ML-6	3	LT-03
ML-7	3	LT-03
ML-8	3	LT-04
ML-9	3	LT-04
ML-10	3	LT-04
ML-11	3	LT-04
ML-12	4	LT-05
ML-13	4	LT-05
ML-14	4	LT-05
ML-15	4	LT-05
ML-16	4	LT-05
ML-17	4	LT-06
LT2	200A at MLK	LT-06
LT3	200A at MLK	LT-07
LT4	200A at MLK	LT-07
LT5	200A at MLK	LT-07
LT6	200A at MLK	LT-07
LT7	200A at MLK	LT-07
LT8	200A at MLK	LT-07
LT9	200A at MLK	LT-07
LT10	200A at MLK	LT-08
LT11	200A at MLK	LT-08
LT12	200A at MLK	LT-08
LT13	200A at MLK	LT-08
LT14	200A at MLK	LT-08
LT15	200A at MLK	LT-09
LT16	200A at MLK	LT-09
LT17	200A at MLK	LT-09
LT18	200A at MLK	LT-09
RS-2	5	LT-11
RS-1	5	LT-11
TP-2	6	LT-12
TP-1	6	LT-12
TP-4	6	LT-13
TP-3	6	LT-13

PROPOSED LIGHT TOWER SCHEDULE

TOWER NO.	CONTROLLER	TOWER HEIGHT	FOUNDATION DEPTH (ft)	NO. OF LUMINAIRES	NORTHING	EASTING	SHEET NO.
1-B1	1	130	21.5	3	14035460.33	2447034.28	LT-14
1-B2	1	130	21.5	3	14035369.68	2447436.56	LT-14
1-B3	1	130	21.5	3	14035374.20	2447892.79	LT-14
1-A1	1	130	21.5	3	14035225.93	2447117.89	LT-14
1-A2	1	130	21.5	6	14035046.33	2447900.62	LT-14
2-A1	2	160	24	4	14035188.48	2448184.15	LT-14
2-A2	2	160	24	6	14035072.96	2448559.02	LT-15
2-B1	2	140	22	3	14035503.81	2448971.67	LT-15
2-B2	2	160	24	4	14035767.26	2449232.39	LT-15
2-B3	2	160	24	2	14035448.66	2449450.87	LT-15
2-B4	2	160	24	3	14035192.10	2449346.04	LT-15
3-A1	3	100	22.5	4	14036200.91	2449693.44	LT-16
3-A2	3	100	22.5	6	14037000.10	2449887.69	LT-16
3-A3	3	100	18.5	8	14036108.83	2449911.96	LT-16
3-A4	3	100	22.5	8	14036563.78	2450025.61	LT-16
4-B2	4	110	16	2	14037677.39	2449883.62	LT-17
4-B1	4	100	18.5	3	14038179.10	2450179.25	LT-17
4-C2	4	100	16.5	4	14037276.49	2450264.56	LT-17
4-C1	4	100	18.5	3	14037673.77	2450221.34	LT-17
4-A1	4	110	18.5	6	14039011.21	2450326.33	LT-18
4-A2	4	110	13.5	2	14039281.57	2450347.40	LT-18
5A-C5	5A	100	*	6	14039561.00	2450543.77	LT-18
5A-B5	5A	100	13.5	6	14040272.59	2451112.63	LT-19
5A-C4	5A	100	15.5	8	14039930.84	2451130.54	LT-19
5A-C3	5A	130	18	3	14040129.45	2451560.67	LT-19
5A-C2	5A	100	16.5	4	14040225.36	2451913.14	LT-19
5A-B4	5A	100	18.5	4	14040489.30	2452188.82	LT-19
5A-D2	5A	100	18.5	3	14039825.88	2451595.47	LT-19
5A-C1	5A	120	20.5	2	14040043.49	2452056.52	LT-19
5A-D1	5A	100	18.5	3	14040108.03	2452395.47	LT-19
5A-B2	5A	100	18.5	4	14040603.40	2452528.27	LT-20
5A-B3	5A	100	18.5	3	14040702.25	2452799.41	LT-20
5A-B1	5A	120	20.5	3	14040276.53	2452738.36	LT-20
5A-A1	5A	100	18.5	2	14040697.76	2453319.34	LT-20
5A-A2	5A	100	18.5	3	14040892.68	2453591.81	LT-20
5A-A5	5A	100	15.5	3	14041521.53	2454165.26	LT-21
5A-A3	5A	100	18.5	3	14041139.53	2453986.02	LT-21
5A-A4	5A	100	18.5	4	14041537.68	2454517.90	LT-21
5A-A6	5A	100	18.5	3	14041776.19	2454841.51	LT-22
5A-A7	5A	100	15.5	3	14041557.79	2454942.96	LT-22
2-A4	2	120	25	2	14034353.38	2448422.95	LT-23
2-A3	2	140	27.5	3	14034353.38	2448437.88	LT-23
3-A6	3	130	18	2	14035102.36	2450281.97	LT-24
3-A5	3	160	24	3	14035423.37	2450194.76	LT-24

\* EXISTING TOWER WITH NEW LED LUMINAIRES (NO NEW FOUNDATION)

CONTROLLER REMOVAL

CONTROLLER	SHEET NO.
1	LT-02
2	LT-03
3	LT-04
4	LT-06
200A at MLK	LT-08
6	LT-12

PROPOSED CONTROLLER

CONTROLLER	SHEET NO.
1	LT-14
2	LT-15
3	LT-16
4	LT-18
5A	LT-20

MODEL: I:\PROJECTS\FAI 70\DRAWINGS\FAI 70-01.dwg



USER NAME = mdeltche	DESIGNED - BL	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - MD	REVISED -
PLOT DATE = 2/29/2024	CHECKED - MH	REVISED -
	DATE - 01-12-2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LIGHTING EQUIPMENT SCHEDULES  
FAI 70 (I-55 /7064)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	6
CONTRACT NO. 76M86				
ILLINOIS FED. AID PROJECT				

LTS-01

PROPOSED UNIT DUCT SCHEDULE

SHEET NO.	FROM	TO	LENGTH(FT)
LT-14	1-B3	1-B2	476
LT-14	1-B2	1-B1	426
LT-14	1-B1	CONTROLLER 1	230
LT-14	CONTROLLER 1	1-A1	130
LT-14	1-A1	1-A2	876
LT-14/15	2-A1	2-A2	461
LT-14/15	2-A1	CONTROLLER 2	793
LT-15/23	2-A2	2-A3	446
LT-15	CONTROLLER 2	2-B1	348
LT-15	2-B1	2-B2	401
LT-15	2-B2	2-B3	416
LT-15	2-B3	2-B4	366
LT-16	CONTROLLER 3	3-A1	263
LT-16	3-A1	3-A2	836
LT-16	3-A1	3-A3	246
LT-16	3-A3	3-A4	496
LT-16/24	3-A3	3-A5	776
LT-17	4-B2	4-B1	690
LT-17	4-B1	CONTROLLER 4	541
LT-17	CONTROLLER 4	4-C1	948
LT-17	4-C1	4-C2	461
LT-18	CONTROLLER 4	4-A1	463
LT-18	4-A1	4-A2	326
LT-18/19	5A-C5	5A-C4	801
LT-19	5A-C4	5A-C3	526
LT-19	5A-C3	5A-C2	466
LT-19	5A-C2	UNDERPASS	106
LT-19	5A-C2	5A-C1	291
LT-19/20	5A-C1	CONTROLLER 5A	808
LT-19	5A-D1	5A-D2	851
LT-19	5A-B5	5A-B4	1076
LT-19/20	5A-B4	5A-B2	371
LT-20/19	5A-D1	CONTROLLER 5A	358
LT-20	CONTROLLER 5A	5A-B1	43
LT-20	5A-B1	5A-B2	409
LT-20	5A-B2	5A-B3	296
LT-20	CONTROLLER 5A	5A-A1	828
LT-20	5A-A1	5A-A2	341
LT-21/20	5A-A2	5A-A3	486
LT-21	5A-A3	5A-A4	746
LT-21	5A-A4	5A-A5	446
LT-21/22	5A-A4	5A-A6	491
LT-22	5A-A6	5A-A7	326

PROPOSED UNDERGROUND CONDUIT SCHEDULE

SHEET NO.	LENGTH (FT)
LT-15	44
LT-15	36
LT-15	30
LT-15	37
LT-16	76
LT-16	148
LT-16	55
LT-16	43
LT-16	84
LT-16	84
LT-17	56
LT-17	121
LT-17	81
LT-17	115
LT-17	121
LT-17	44
LT-19	75
LT-19	78
LT-19	56
LT-19	219
LT-19	40
LT-19	101
LT-20	338
LT-20	76
LT-21	114
LT-21	94
LT-22	69
LT-24	55
LT-24	55

GUARDRAIL REMOVAL SCHEDULE OF QUANTITIES					
LOCATION					
SHEET NO.	LIGHT NO.	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	FENCE REMOVAL	CHAIN LINK FENCE, 4'
		FT	EACH	FT	FT
LT-04	ML-8	75	1		
LT-04	ML-9			30	30
LT-04	ML-10	75	1		
LT-07	LT8	75	1		
LT-18	N/A	75	1		
LT-20	N/A	75	1		
TOTALS		375	5	30	30

MODEL: I:\MODEL\NAME: FILE: NAME: 02/29/2024

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdeltche	DESIGNED - BL	REVISED -
PLOT SCALE = 2,0001' / in.	DRAWN - MD	REVISED -
PLOT DATE = 2/29/2024	CHECKED - MH	REVISED -
	DATE - 01-12-2024	REVISED -

DESIGNED - BL	REVISED -
DRAWN - MD	REVISED -
CHECKED - MH	REVISED -
DATE - 01-12-2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION








LIGHTING AND GUARDRAIL EQUIPMENT SCHEDULES  
FAI 70 (I-55 /7064)

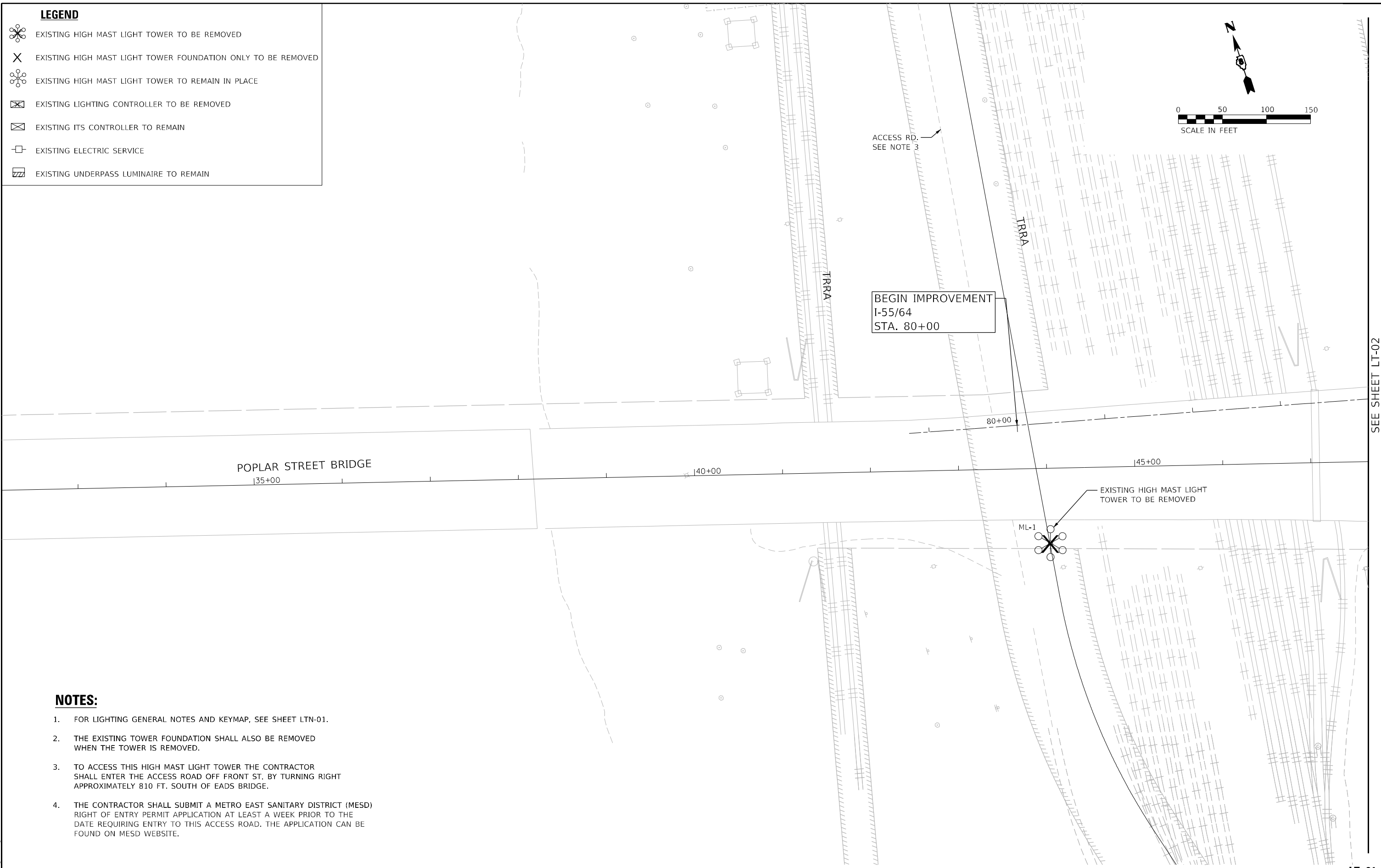
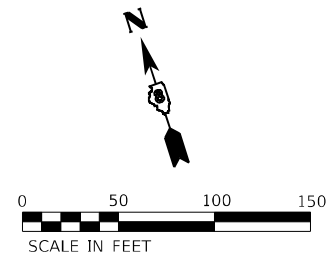
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	7
			CONTRACT NO. 76M86	
ILLINOIS FED. AID PROJECT				

LTS-02

**LEGEND**

-  EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER FOUNDATION ONLY TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER TO REMAIN IN PLACE
-  EXISTING LIGHTING CONTROLLER TO BE REMOVED
-  EXISTING ITS CONTROLLER TO REMAIN
-  EXISTING ELECTRIC SERVICE
-  EXISTING UNDERPASS LUMINAIRE TO REMAIN



SEE SHEET LT-02

LT-01

**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. THE EXISTING TOWER FOUNDATION SHALL ALSO BE REMOVED WHEN THE TOWER IS REMOVED.
3. TO ACCESS THIS HIGH MAST LIGHT TOWER THE CONTRACTOR SHALL ENTER THE ACCESS ROAD OFF FRONT ST. BY TURNING RIGHT APPROXIMATELY 810 FT. SOUTH OF EADS BRIDGE.
4. THE CONTRACTOR SHALL SUBMIT A METRO EAST SANITARY DISTRICT (MESD) RIGHT OF ENTRY PERMIT APPLICATION AT LEAST A WEEK PRIOR TO THE DATE REQUIRING ENTRY TO THIS ACCESS ROAD. THE APPLICATION CAN BE FOUND ON MESD WEBSITE.

MODEL: \\MODEL\NAME  
FILE: \\NAME: 02125651pht-01.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
DRAWN - MD	CHECKED - MH	REVISED -
PLOT SCALE = 100,0000' / in.	DATE - 01-12-2024	REVISED -
PLOT DATE = 1/25/2024		








**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

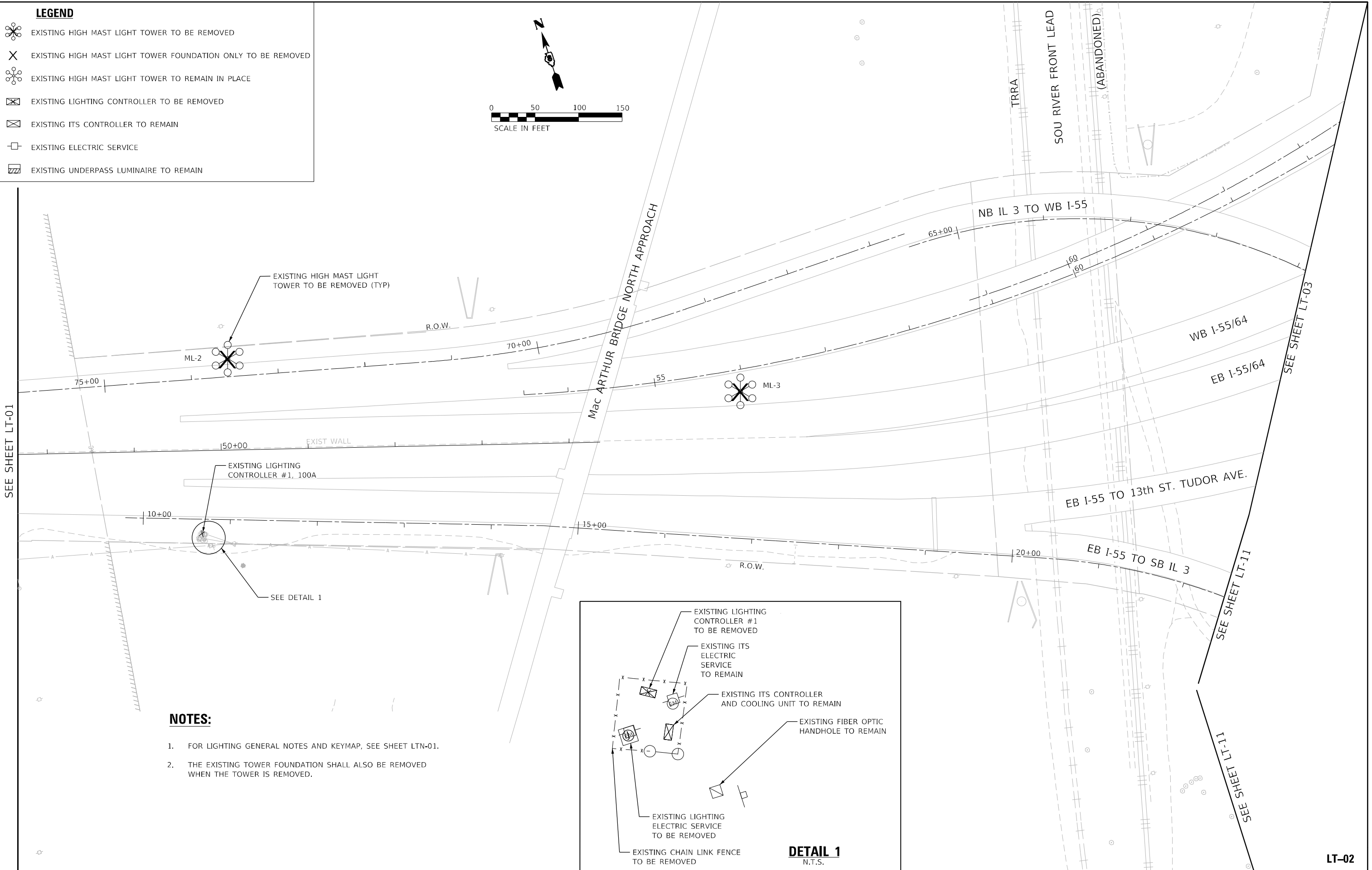
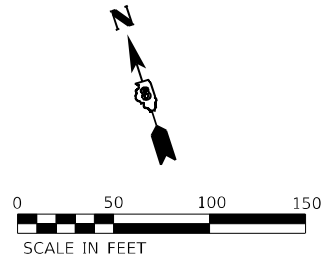
**REMOVAL LIGHTING PLAN  
FAI 70 (I-55 /7064)**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	8
CONTRACT NO. 76M86				
ILLINOIS FED. AID PROJECT				

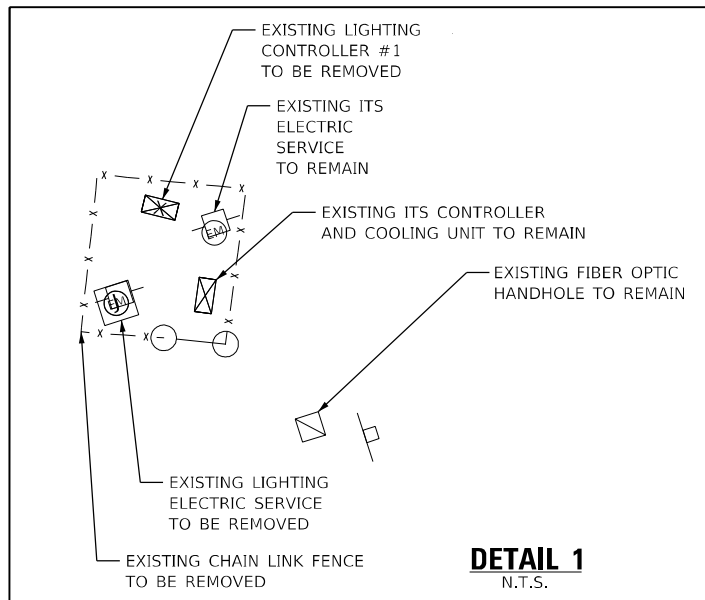
**LEGEND**

-  EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER FOUNDATION ONLY TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER TO REMAIN IN PLACE
-  EXISTING LIGHTING CONTROLLER TO BE REMOVED
-  EXISTING ITS CONTROLLER TO REMAIN
-  EXISTING ELECTRIC SERVICE
-  EXISTING UNDERPASS LUMINAIRE TO REMAIN



**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. THE EXISTING TOWER FOUNDATION SHALL ALSO BE REMOVED WHEN THE TOWER IS REMOVED.



MODEL: \\MODEL\NAME  
FILE: \\NAME: 021255651p1-02.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - MD	REVISED -
PLOT DATE = 1/25/2024	CHECKED - MH	REVISED -
	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**REMOVAL LIGHTING PLAN**  
**FAI 70 (I-55 /7064)**

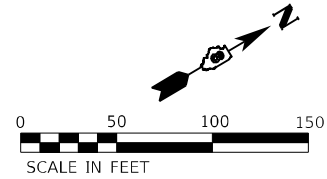
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F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76M86	

**LT-02**

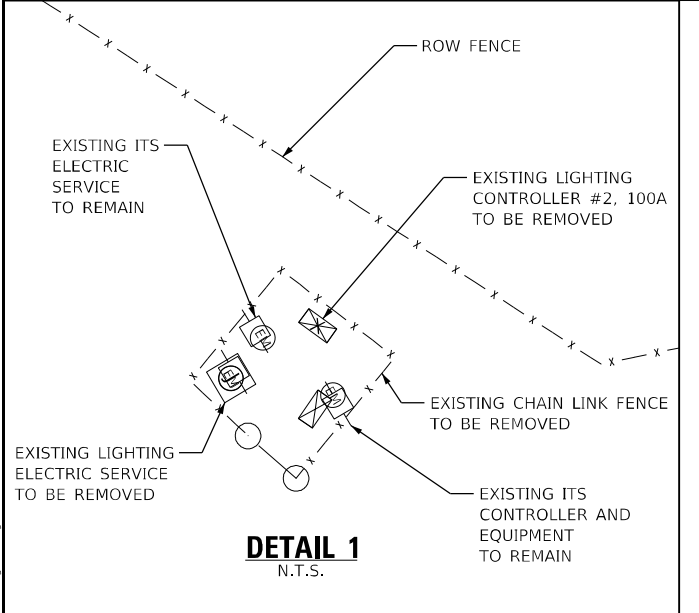


SEE SHEET LT-02



**LEGEND**

- EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED
- EXISTING HIGH MAST LIGHT TOWER FOUNDATION ONLY TO BE REMOVED
- EXISTING HIGH MAST LIGHT TOWER TO REMAIN IN PLACE
- EXISTING LIGHTING CONTROLLER TO BE REMOVED
- EXISTING ITS CONTROLLER TO REMAIN
- EXISTING ELECTRIC SERVICE
- EXISTING UNDERPASS LUMINAIRE TO REMAIN



**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. THE EXISTING TOWER FOUNDATION SHALL ALSO BE REMOVED WHEN THE TOWER IS REMOVED.

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - MD	REVISED -
PLOT DATE = 1/25/2024	CHECKED - MH	REVISED -
	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL LIGHTING PLAN  
FAI 70 (I-55 /7064)**








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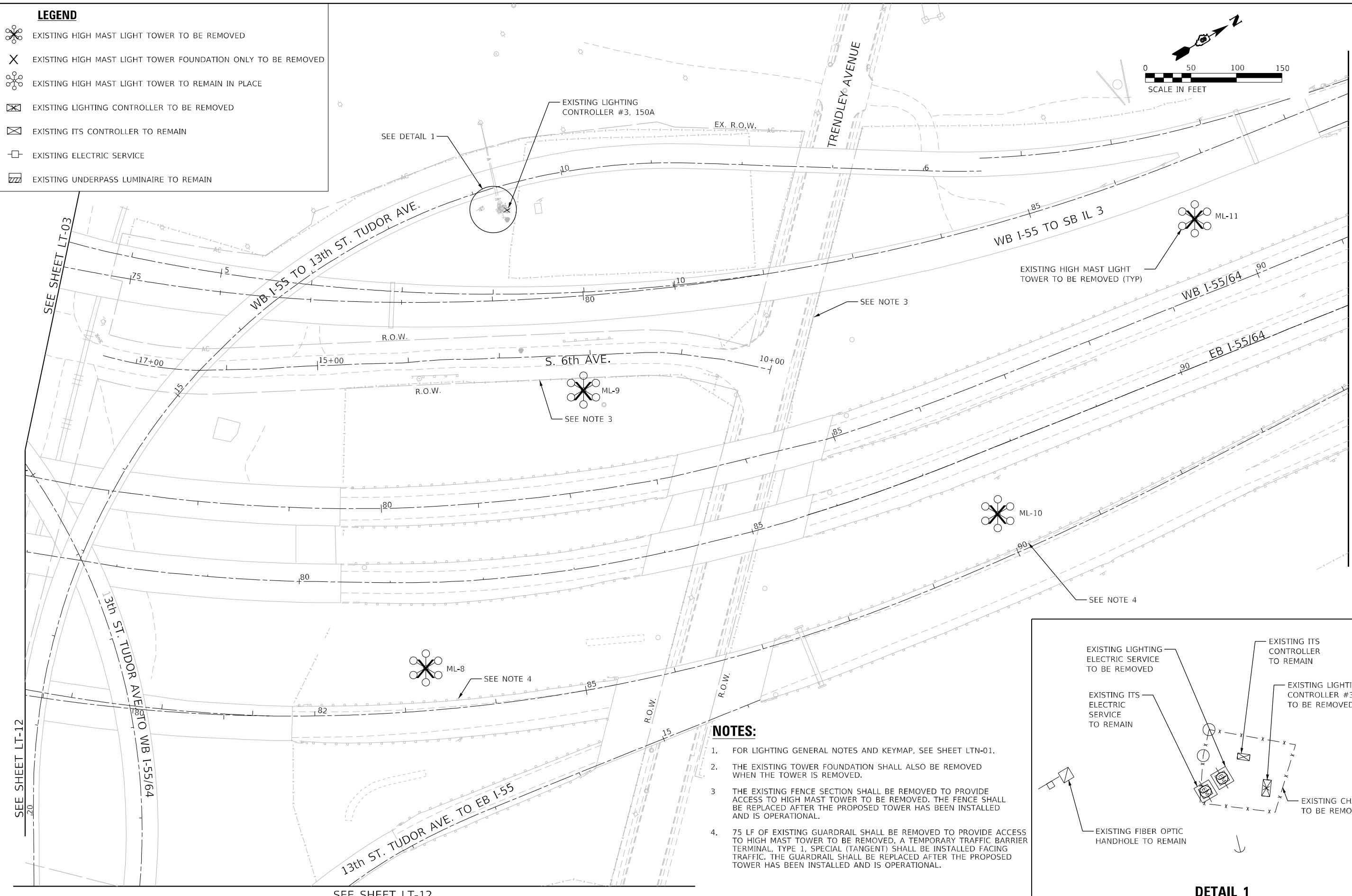
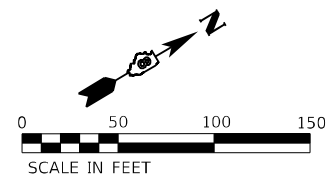
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	10
CONTRACT NO. 76M86				
ILLINOIS FED. AID PROJECT				

**LT-03**

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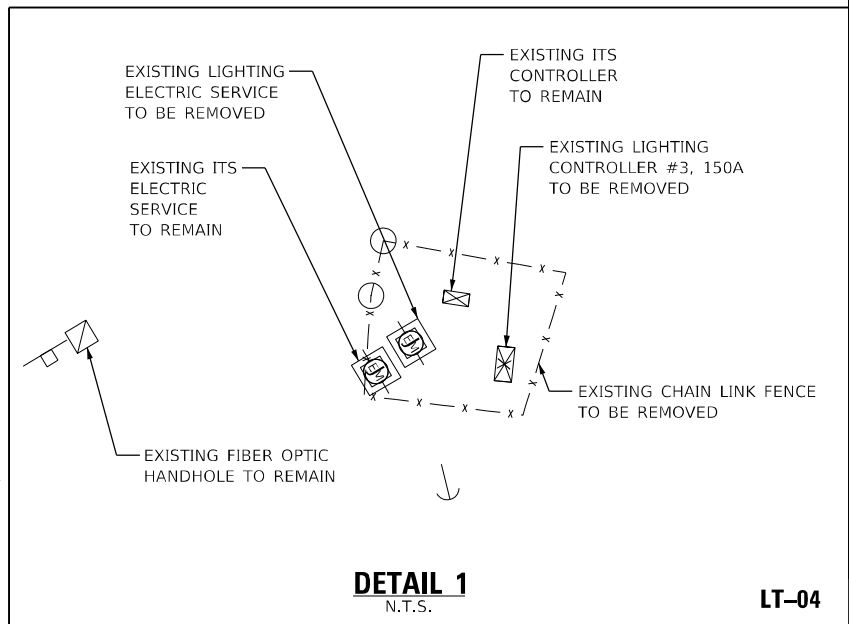
**LEGEND**

-  EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER FOUNDATION ONLY TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER TO REMAIN IN PLACE
-  EXISTING LIGHTING CONTROLLER TO BE REMOVED
-  EXISTING ITS CONTROLLER TO REMAIN
-  EXISTING ELECTRIC SERVICE
-  EXISTING UNDERPASS LUMINAIRE TO REMAIN



**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. THE EXISTING TOWER FOUNDATION SHALL ALSO BE REMOVED WHEN THE TOWER IS REMOVED.
3. THE EXISTING FENCE SECTION SHALL BE REMOVED TO PROVIDE ACCESS TO HIGH MAST TOWER TO BE REMOVED. THE FENCE SHALL BE REPLACED AFTER THE PROPOSED TOWER HAS BEEN INSTALLED AND IS OPERATIONAL.
4. 75 LF OF EXISTING GUARDRAIL SHALL BE REMOVED TO PROVIDE ACCESS TO HIGH MAST TOWER TO BE REMOVED. A TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT) SHALL BE INSTALLED FACING TRAFFIC. THE GUARDRAIL SHALL BE REPLACED AFTER THE PROPOSED TOWER HAS BEEN INSTALLED AND IS OPERATIONAL.



**DETAIL 1**  
N.T.S.

LT-04

MODEL NAME: D:\PROJECTS\76M86\76M86.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
DRAWN - MD	REVISOR -	
PLOT SCALE = 100,0000' / in.	CHECKED - MH	REVISOR -
PLOT DATE = 2/29/2024	DATE - 01-12-2024	REVISOR -








**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

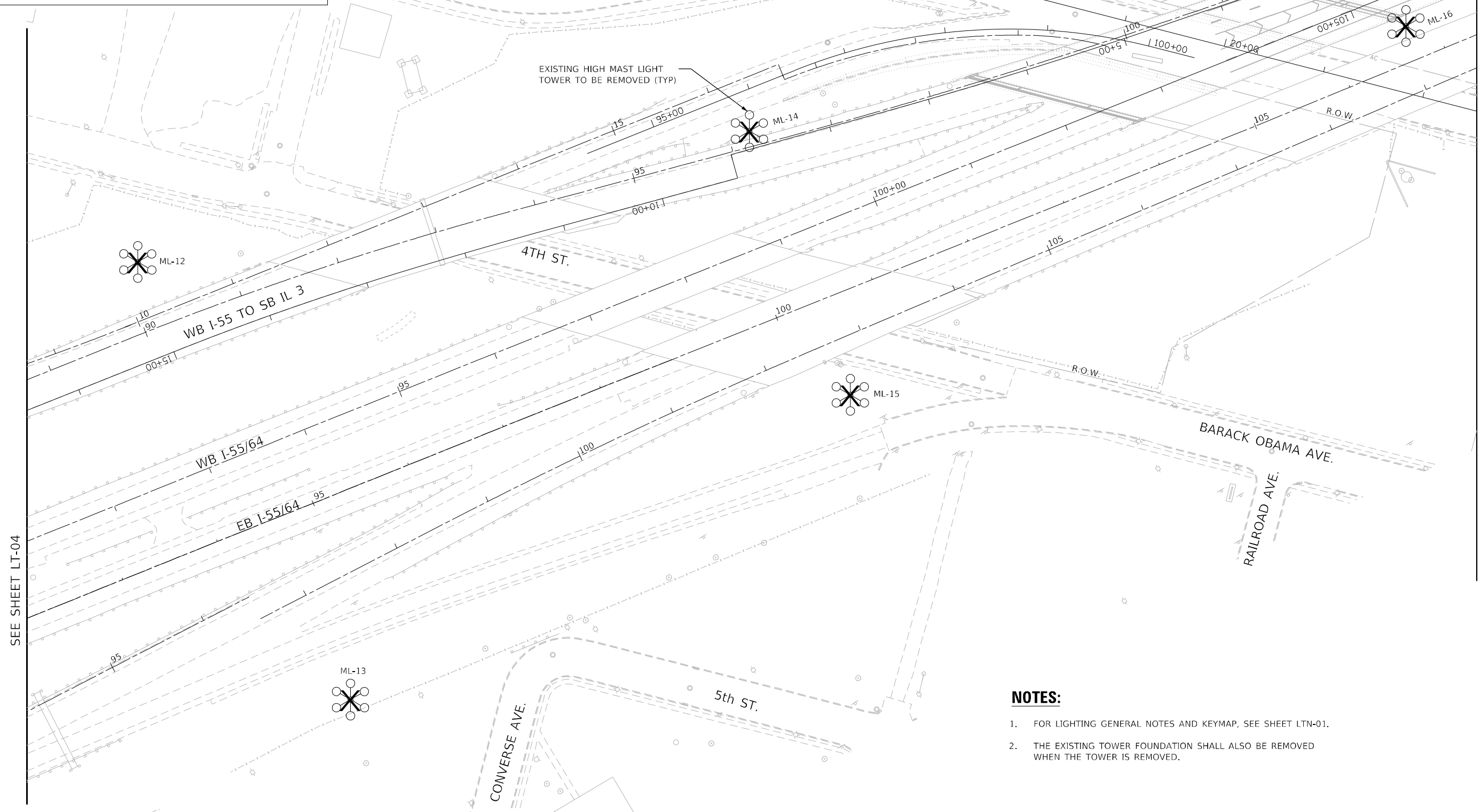
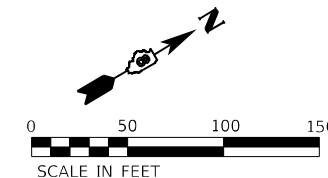
**REMOVAL LIGHTING PLAN**  
**FAI 70 (I-55 /7064)**

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	11
CONTRACT NO. 76M86				
ILLINOIS FED. AID PROJECT				

**LEGEND**

-  EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER FOUNDATION ONLY TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER TO REMAIN IN PLACE
-  EXISTING LIGHTING CONTROLLER TO BE REMOVED
-  EXISTING ITS CONTROLLER TO REMAIN
-  EXISTING ELECTRIC SERVICE
-  EXISTING UNDERPASS LUMINAIRE TO REMAIN



SEE SHEET LT-04

SEE SHEET LT-06

**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. THE EXISTING TOWER FOUNDATION SHALL ALSO BE REMOVED WHEN THE TOWER IS REMOVED.

MODEL: I:\MODEL\NAMEP  
FILE: NAMEP\_02125651pht-05.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - MD	REVISED -
PLOT DATE = 1/23/2024	CHECKED - MH	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**








**REMOVAL LIGHTING PLAN  
FAI 70 (I-55 /7064)**

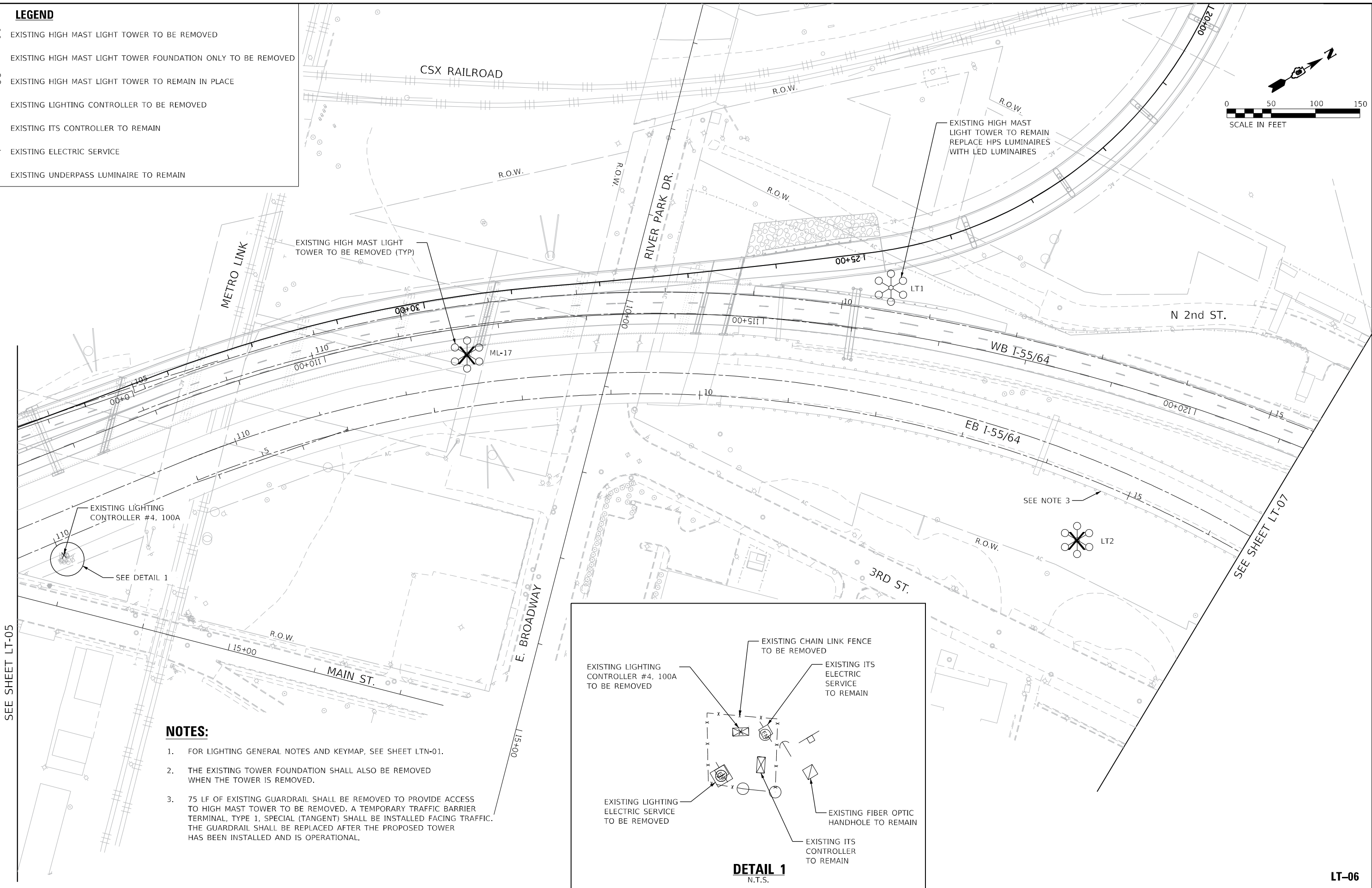
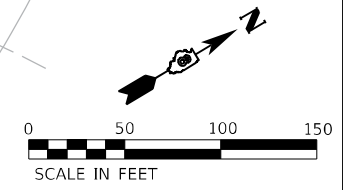
SCALE: 1"=50'    SHEET    OF    SHEETS    STA.    TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	12
CONTRACT NO. 76M86			ILLINOIS FED. AID PROJECT	

**LT-05**

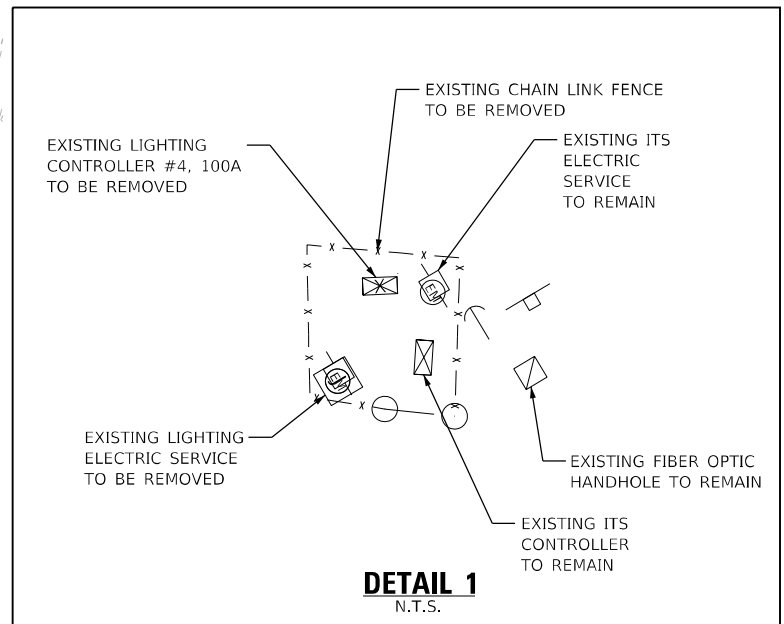
**LEGEND**

-  EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER FOUNDATION ONLY TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER TO REMAIN IN PLACE
-  EXISTING LIGHTING CONTROLLER TO BE REMOVED
-  EXISTING ITS CONTROLLER TO REMAIN
-  EXISTING ELECTRIC SERVICE
-  EXISTING UNDERPASS LUMINAIRE TO REMAIN



**NOTES:**


1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. THE EXISTING TOWER FOUNDATION SHALL ALSO BE REMOVED WHEN THE TOWER IS REMOVED.
3. 75 LF OF EXISTING GUARDRAIL SHALL BE REMOVED TO PROVIDE ACCESS TO HIGH MAST TOWER TO BE REMOVED. A TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT) SHALL BE INSTALLED FACING TRAFFIC. THE GUARDRAIL SHALL BE REPLACED AFTER THE PROPOSED TOWER HAS BEEN INSTALLED AND IS OPERATIONAL.



SEE SHEET LT-05

SEE SHEET LT-07

MODEL: I:\MODEL\NAME: CONSULTING ENGINEERS, INC. FILE NAME: 021223\light-06.dgn

 <b>AMES Engineering, Inc.</b> CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516	USER NAME = mdlctche	DESIGNED - BL	REVISED -
	PLOT SCALE = 100,0000' / in.	DRAWN - MD	REVISED -
	PLOT DATE = 2/29/2024	CHECKED - MH	REVISED -
		DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**REMOVAL LIGHTING PLAN**  
**FAI 70 (I-55 /7064)**








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


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	13
CONTRACT NO. 76M86				
ILLINOIS FED. AID PROJECT				

**LT-06**

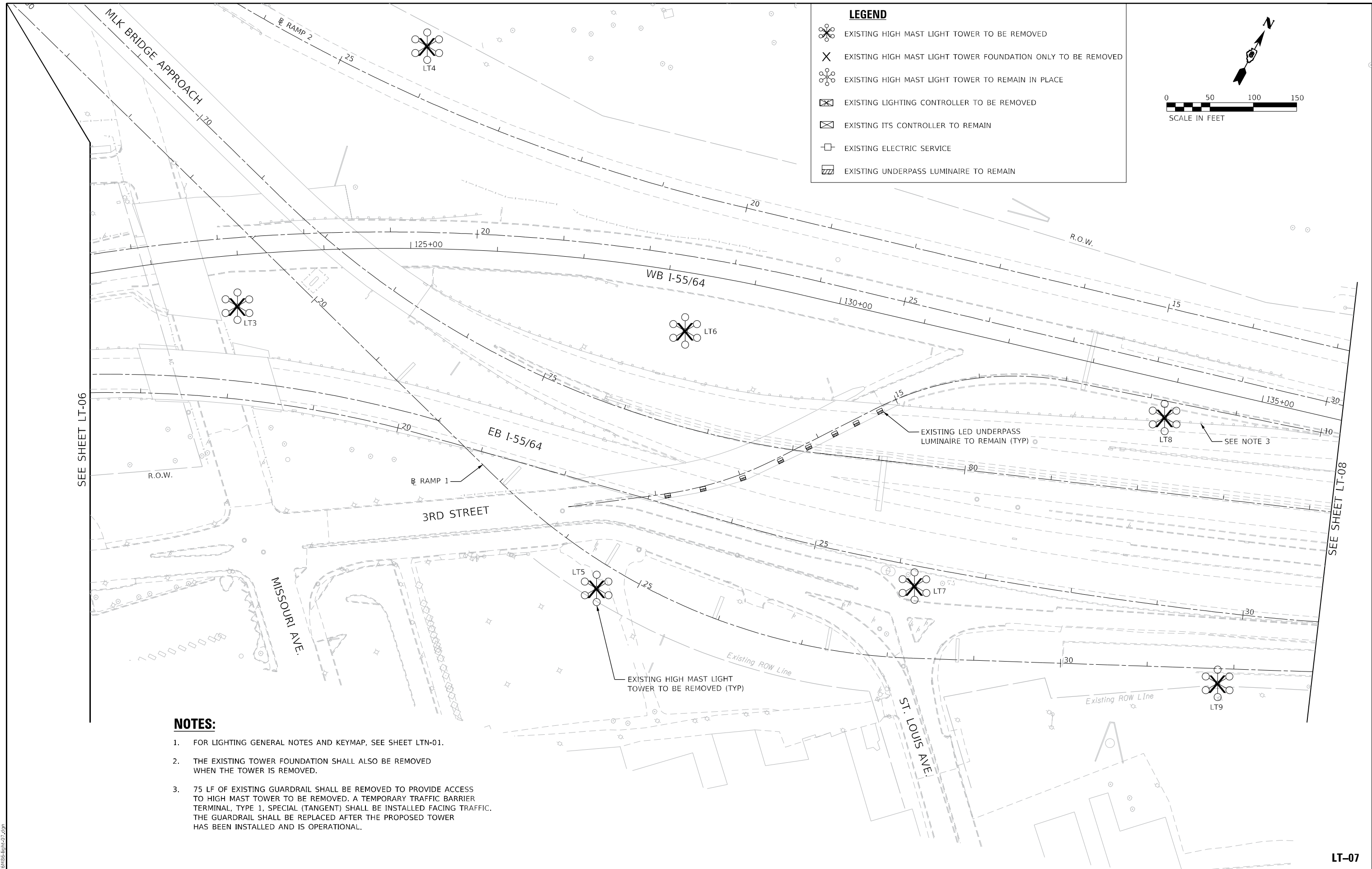


**LEGEND**

-  EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER FOUNDATION ONLY TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER TO REMAIN IN PLACE
-  EXISTING LIGHTING CONTROLLER TO BE REMOVED
-  EXISTING ITS CONTROLLER TO REMAIN
-  EXISTING ELECTRIC SERVICE
-  EXISTING UNDERPASS LUMINAIRE TO REMAIN



0 50 100 150  
SCALE IN FEET



SEE SHEET LT-06

SEE SHEET LT-08

**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. THE EXISTING TOWER FOUNDATION SHALL ALSO BE REMOVED WHEN THE TOWER IS REMOVED.
3. 75 LF OF EXISTING GUARDRAIL SHALL BE REMOVED TO PROVIDE ACCESS TO HIGH MAST TOWER TO BE REMOVED. A TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT) SHALL BE INSTALLED FACING TRAFFIC. THE GUARDRAIL SHALL BE REPLACED AFTER THE PROPOSED TOWER HAS BEEN INSTALLED AND IS OPERATIONAL.

MODEL: \\MODEL\NAME: FILE: NAME: 02/29/2024 07.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - MD	REVISED -
PLOT DATE = 2/29/2024	CHECKED - MH	REVISED -
	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL LIGHTING PLAN  
FAI 70 (I-55 /7064)**








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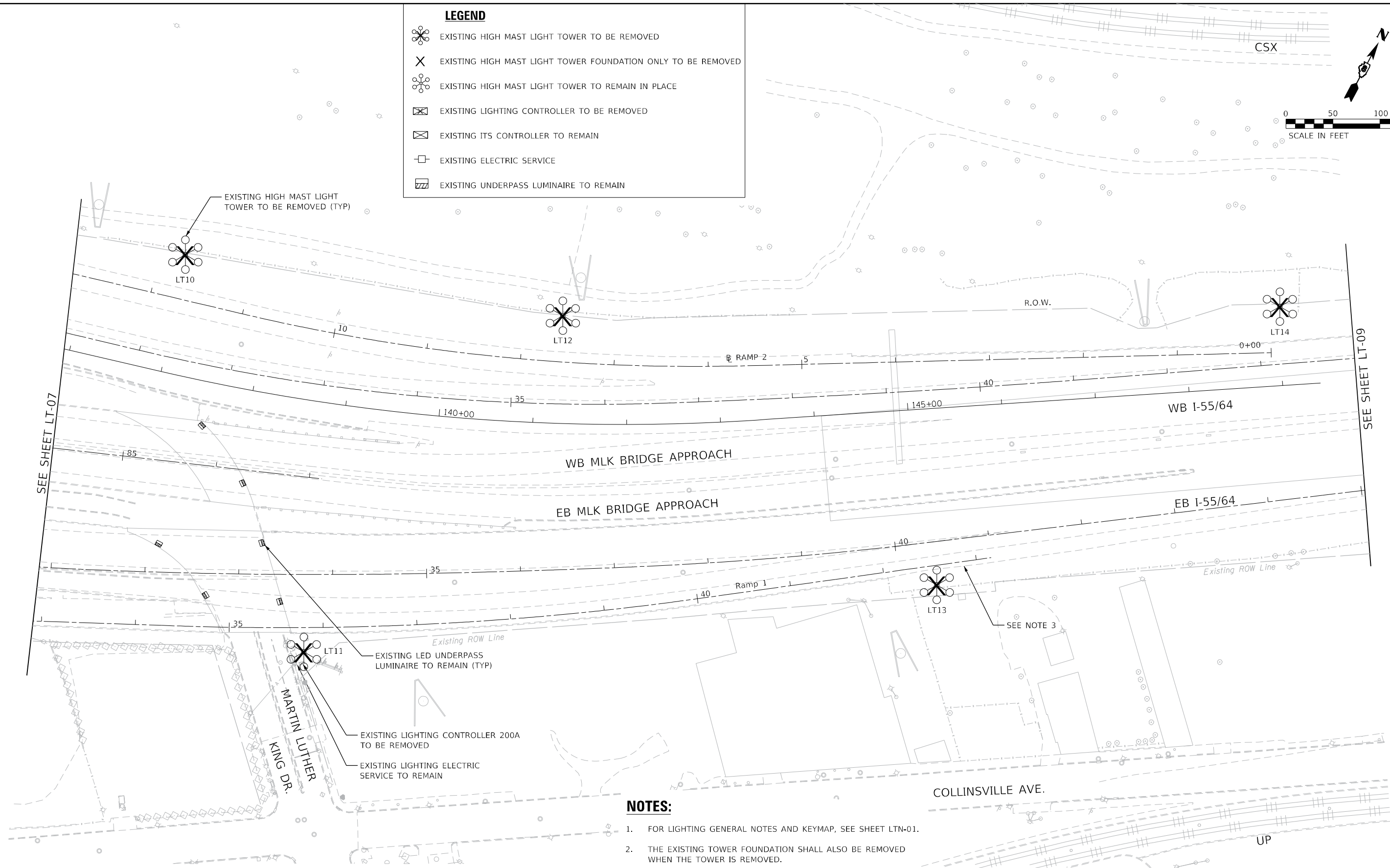
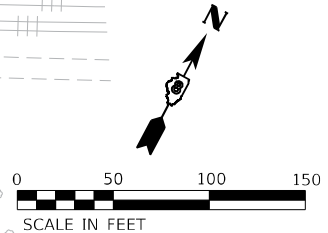
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	14
CONTRACT NO. 76M86			ILLINOIS FED. AID PROJECT	

**LT-07**



**LEGEND**

-  EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER FOUNDATION ONLY TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER TO REMAIN IN PLACE
-  EXISTING LIGHTING CONTROLLER TO BE REMOVED
-  EXISTING ITS CONTROLLER TO REMAIN
-  EXISTING ELECTRIC SERVICE
-  EXISTING UNDERPASS LUMINAIRE TO REMAIN



- NOTES:**
1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
  2. THE EXISTING TOWER FOUNDATION SHALL ALSO BE REMOVED WHEN THE TOWER IS REMOVED.
  3. 75 LF OF EXISTING GUARDRAIL SHALL BE REMOVED TO PROVIDE ACCESS TO HIGH MAST TOWER TO BE REMOVED. A TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT) SHALL BE INSTALLED FACING TRAFFIC. THE GUARDRAIL SHALL BE REPLACED AFTER THE PROPOSED TOWER HAS BEEN INSTALLED AND IS OPERATIONAL.

MODEL: \\MODEL\NAME  
FILE: NAME: 02122024\light-08.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - MD	REVISED -
PLOT DATE = 2/29/2024	CHECKED - MH	REVISED -
	DATE - 01-12-2024	REVISED -








**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

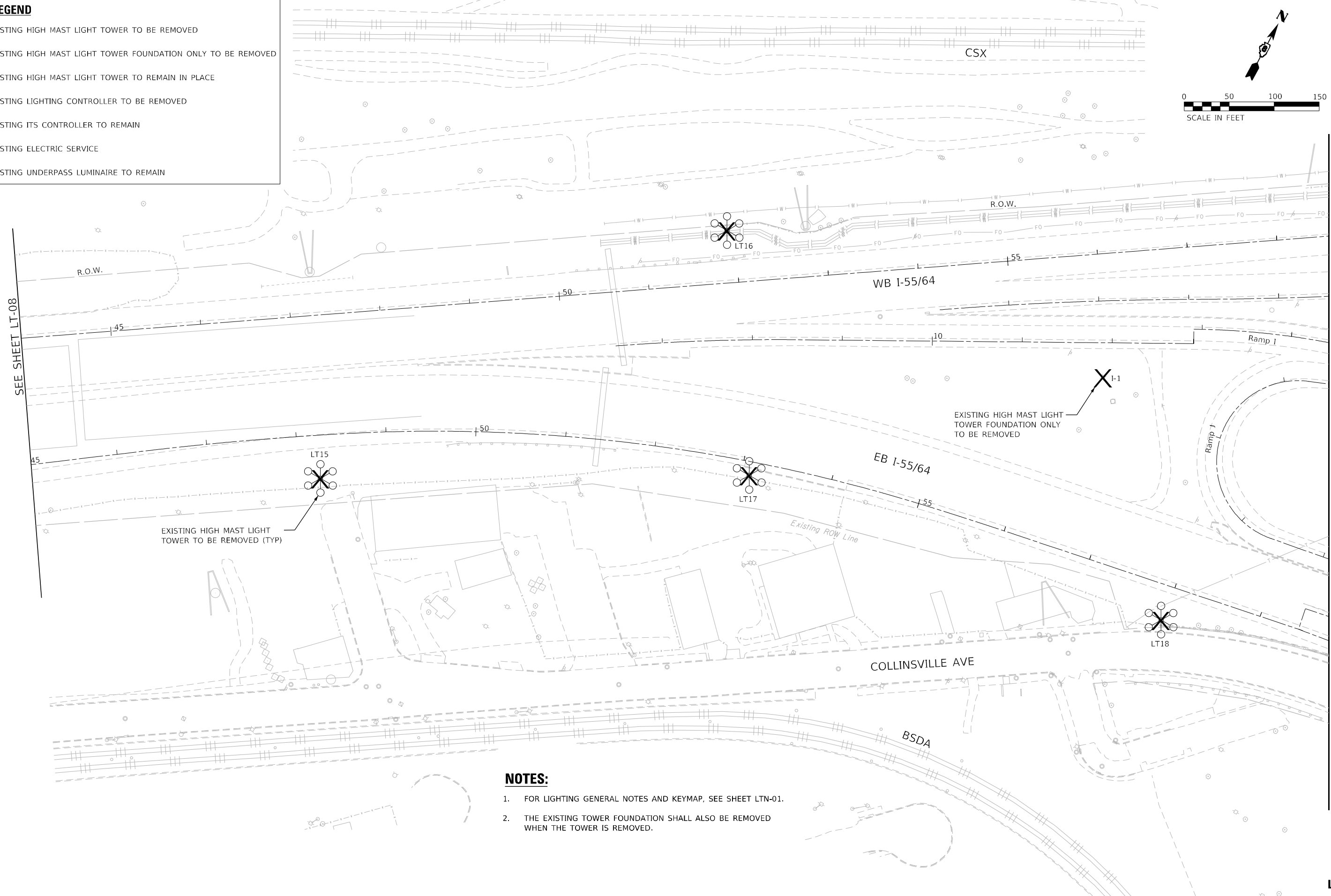
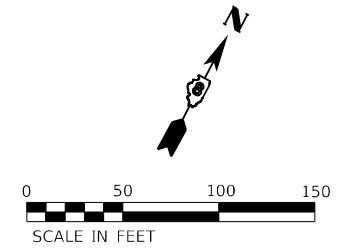
**REMOVAL LIGHTING PLAN**  
**FAI 70 (I-55 /7064)**

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	15
CONTRACT NO. 76M86				
ILLINOIS FED. AID PROJECT				

**LEGEND**

-  EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER FOUNDATION ONLY TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER TO REMAIN IN PLACE
-  EXISTING LIGHTING CONTROLLER TO BE REMOVED
-  EXISTING ITS CONTROLLER TO REMAIN
-  EXISTING ELECTRIC SERVICE
-  EXISTING UNDERPASS LUMINAIRE TO REMAIN



**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. THE EXISTING TOWER FOUNDATION SHALL ALSO BE REMOVED WHEN THE TOWER IS REMOVED.

MODEL: I:\MODEL\NAMEP...  
FILE NAME: D:\ENGIN\light-09.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - MD	REVISED -
PLOT DATE = 1/25/2024	CHECKED - MH	REVISED -
	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL LIGHTING PLAN**  
**FAI 70 (I-55 /7064)**

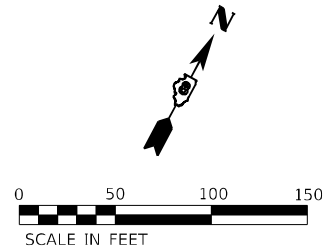
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F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	16
CONTRACT NO. 76M86				
ILLINOIS FED. AID PROJECT				

**LT-09**

SEE SHEET LT-08

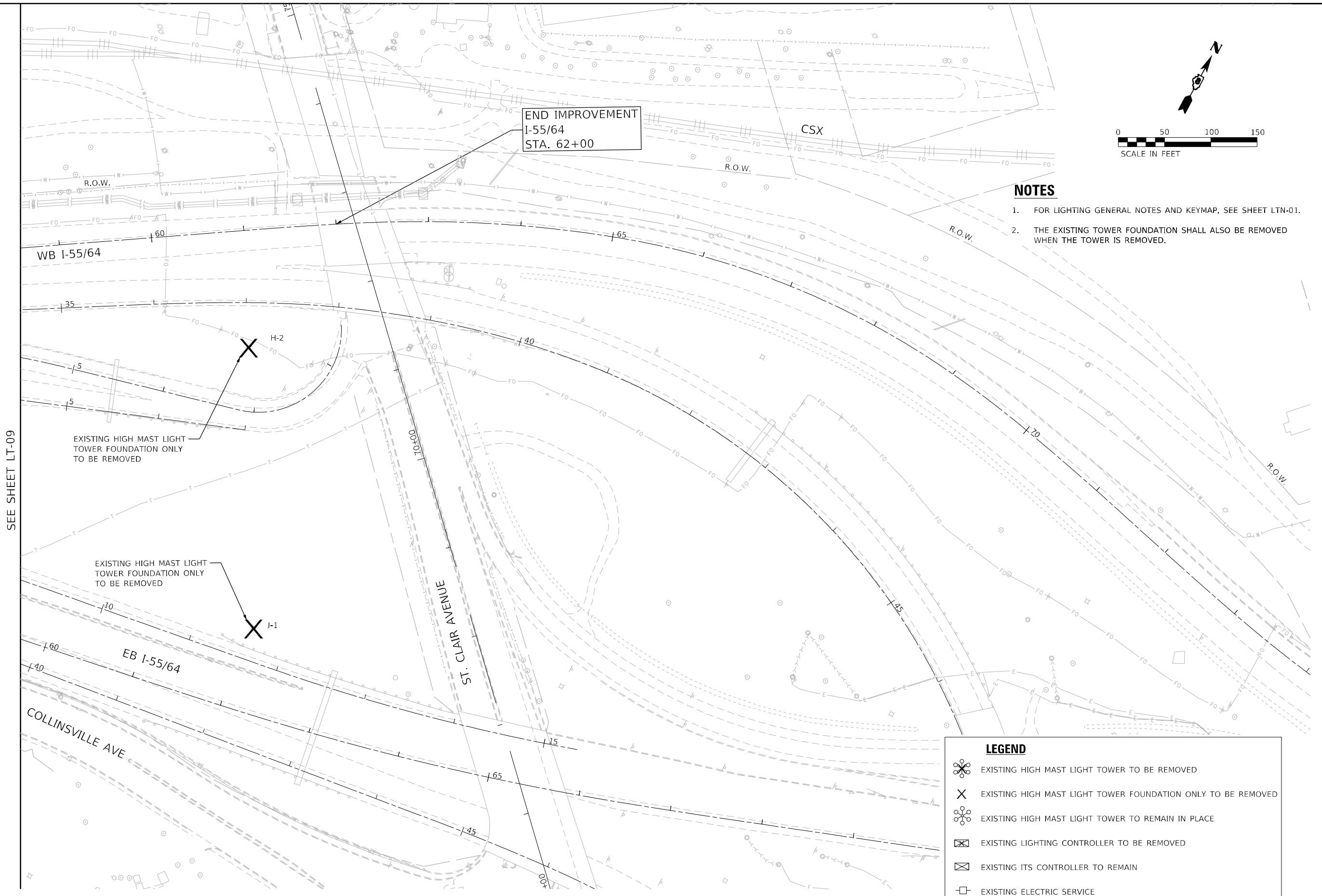
SEE SHEET LT-10



**NOTES**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. THE EXISTING TOWER FOUNDATION SHALL ALSO BE REMOVED WHEN THE TOWER IS REMOVED.

END IMPROVEMENT  
I-55/64  
STA. 62+00



SEE SHEET LT-09

EXISTING HIGH MAST LIGHT  
TOWER FOUNDATION ONLY  
TO BE REMOVED

EXISTING HIGH MAST LIGHT  
TOWER FOUNDATION ONLY  
TO BE REMOVED

**LEGEND**

- EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED
- EXISTING HIGH MAST LIGHT TOWER FOUNDATION ONLY TO BE REMOVED
- EXISTING HIGH MAST LIGHT TOWER TO REMAIN IN PLACE
- EXISTING LIGHTING CONTROLLER TO BE REMOVED
- EXISTING ITS CONTROLLER TO REMAIN
- EXISTING ELECTRIC SERVICE
- EXISTING UNDERPASS LUMINAIRE TO REMAIN

**LT-10**

MODEL: I:\MODEL\NAME: CONSULTING ENGINEERS, INC. FILE NAME: 022524light-10.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
DRAWN - MD	REVISED -	
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PLOT DATE = 1/23/2024	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

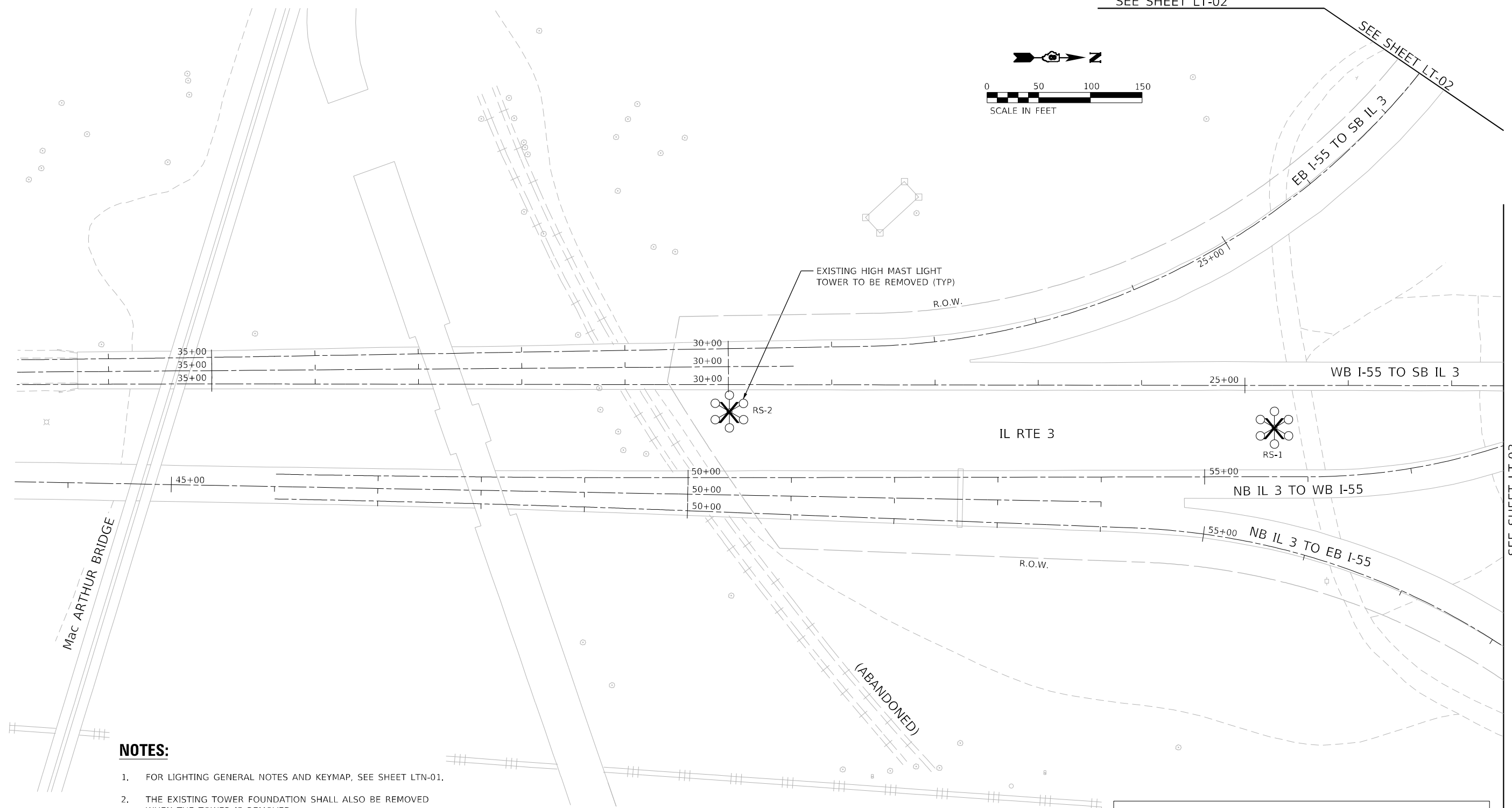
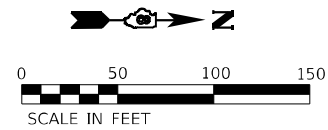
**REMOVAL LIGHTING PLAN  
FAI 70 (I-55 /7064)**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	17
CONTRACT NO. 76M86			ILLINOIS FED. AID PROJECT	

SEE SHEET LT-02

SEE SHEET LT-02



**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. THE EXISTING TOWER FOUNDATION SHALL ALSO BE REMOVED WHEN THE TOWER IS REMOVED.

LEGEND	
	EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED
	EXISTING HIGH MAST LIGHT TOWER FOUNDATION ONLY TO BE REMOVED
	EXISTING HIGH MAST LIGHT TOWER TO REMAIN IN PLACE
	EXISTING LIGHTING CONTROLLER TO BE REMOVED
	EXISTING ITS CONTROLLER TO REMAIN
	EXISTING ELECTRIC SERVICE
	EXISTING UNDERPASS LUMINAIRE TO REMAIN

SEE SHEET LT-03

LT-11

MODEL: \\MODEL\NAME  
FILE: NAME.DWG\BMS\Light-11.dwg

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

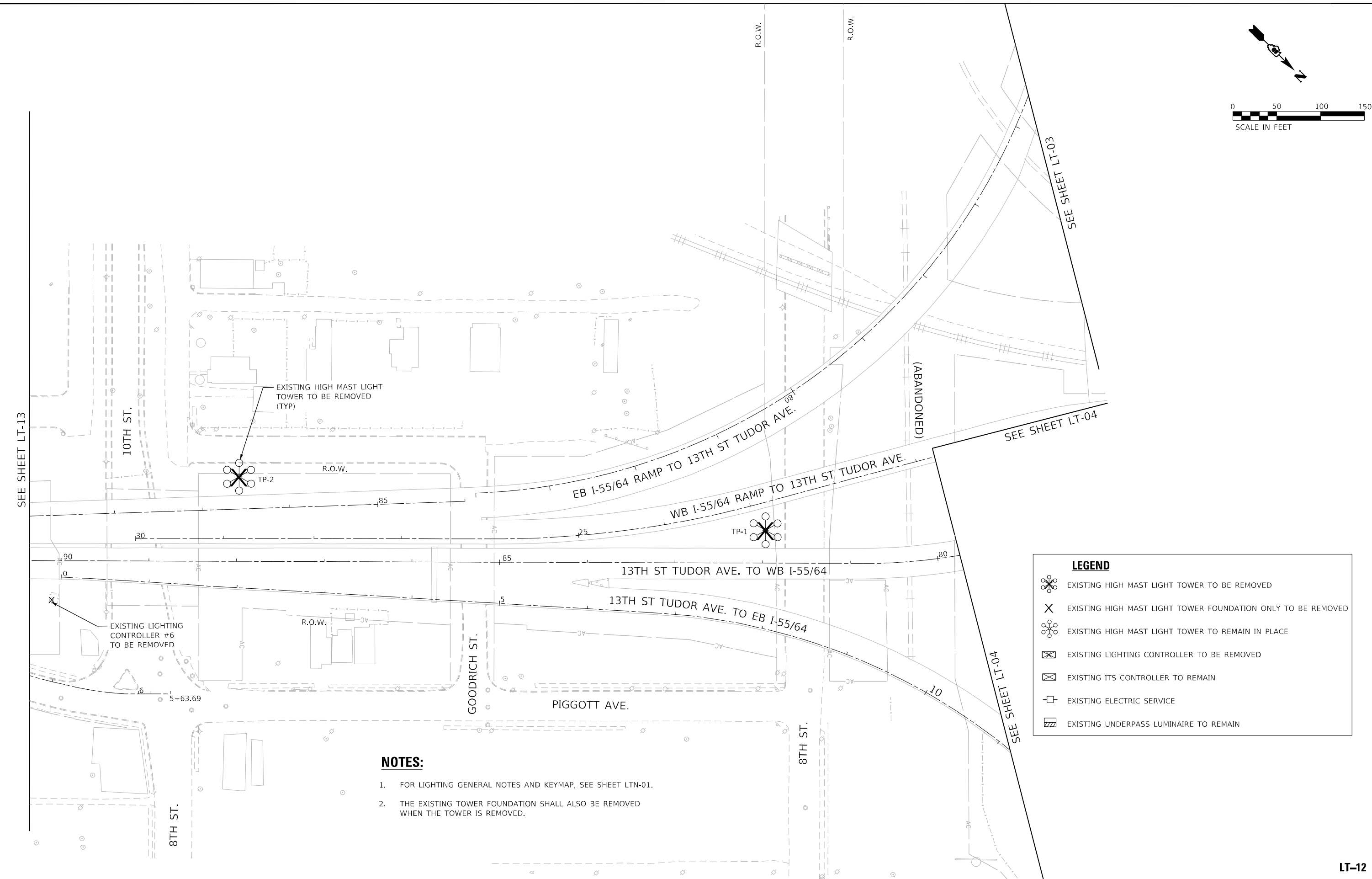
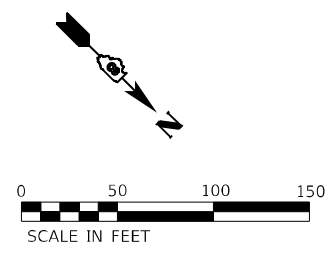
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PLOT DATE = 1/25/2024	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**








**REMOVAL LIGHTING PLAN  
FAI 70 (I-55 / 7064)**

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	18
CONTRACT NO. 76M86			ILLINOIS FED. AID PROJECT	



**LEGEND**

-  EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER FOUNDATION ONLY TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER TO REMAIN IN PLACE
-  EXISTING LIGHTING CONTROLLER TO BE REMOVED
-  EXISTING ITS CONTROLLER TO REMAIN
-  EXISTING ELECTRIC SERVICE
-  EXISTING UNDERPASS LUMINAIRE TO REMAIN

- NOTES:**
1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
  2. THE EXISTING TOWER FOUNDATION SHALL ALSO BE REMOVED WHEN THE TOWER IS REMOVED.

MODEL: 11/06/2024  
FILE: \\ames\proj\7064\7064-12.dwg

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche  
DESIGNED - BL  
DRAWN - MD  
CHECKED - MH  
DATE - 01-12-2024

REVISOR -  
REVISION -  
REVISOR -  
REVISION -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL LIGHTING PLAN  
FAI 70 (I-55 /7064)**








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

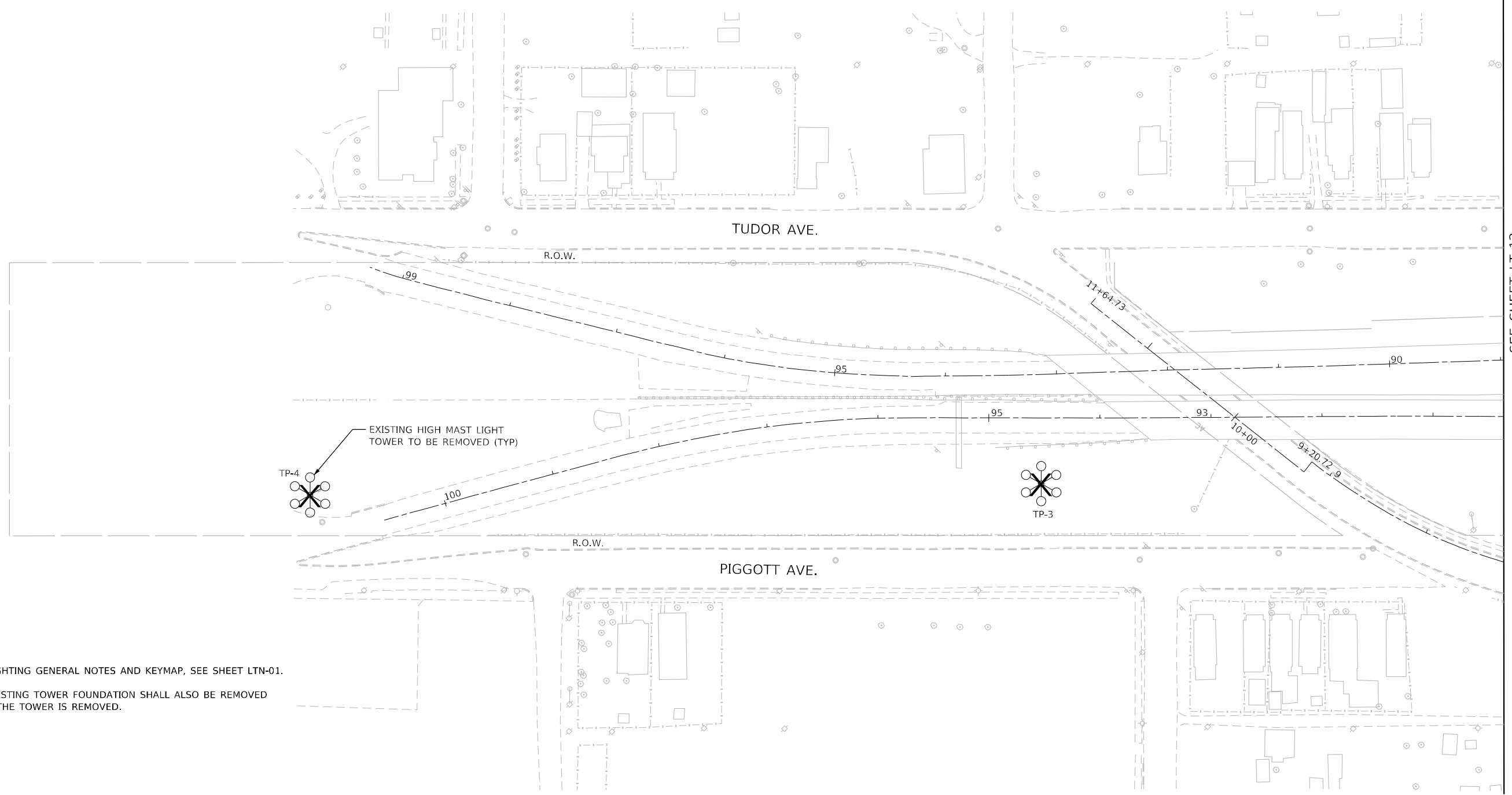
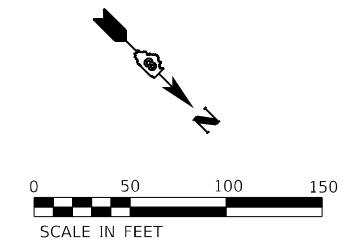
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76M86	

**LT-12**



**LEGEND**

-  EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER FOUNDATION ONLY TO BE REMOVED
-  EXISTING HIGH MAST LIGHT TOWER TO REMAIN IN PLACE
-  EXISTING LIGHTING CONTROLLER TO BE REMOVED
-  EXISTING ITS CONTROLLER TO REMAIN
-  EXISTING ELECTRIC SERVICE
-  EXISTING UNDERPASS LUMINAIRE TO REMAIN



**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. THE EXISTING TOWER FOUNDATION SHALL ALSO BE REMOVED WHEN THE TOWER IS REMOVED.

SEE SHEET LT-12

**LT-13**

MODEL: I:\MODEL\NAME FILE: NAME: D:\25\56\light-13.dgn

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 6330 Belmont Road, Suite 4B  
 Downers Grove, IL 60516

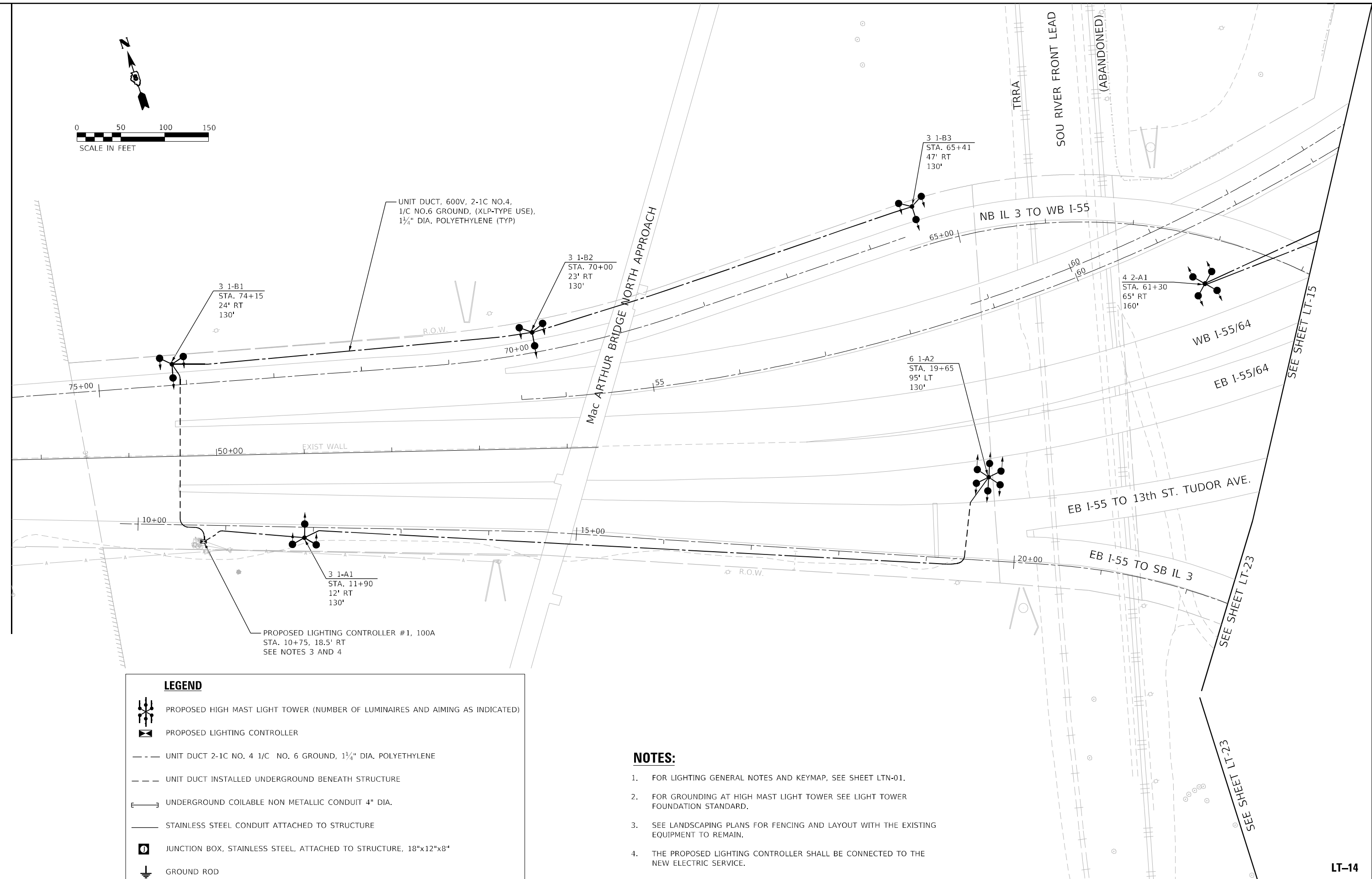
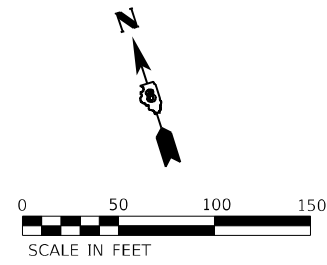
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DRAWN - MD	REVISOR -	
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PLOT DATE = 1/25/2024	DATE - 01-12-2024	REVISOR -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL LIGHTING PLAN**  
**FAI 70 (I-55 /7064)**

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	20
CONTRACT NO. 76M86			ILLINOIS FED. AID PROJECT	



**LEGEND**

	PROPOSED HIGH MAST LIGHT TOWER (NUMBER OF LUMINAIRES AND AIMING AS INDICATED)
	PROPOSED LIGHTING CONTROLLER
	UNIT DUCT 2-1C NO. 4 1/C NO. 6 GROUND, 1 1/4" DIA. POLYETHYLENE
	UNIT DUCT INSTALLED UNDERGROUND BENEATH STRUCTURE
	UNDERGROUND COILABLE NON METALLIC CONDUIT 4" DIA.
	STAINLESS STEEL CONDUIT ATTACHED TO STRUCTURE
	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x12"x8"
	GROUND ROD

**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. FOR GROUNDING AT HIGH MAST LIGHT TOWER SEE LIGHT TOWER FOUNDATION STANDARD.
3. SEE LANDSCAPING PLANS FOR FENCING AND LAYOUT WITH THE EXISTING EQUIPMENT TO REMAIN.
4. THE PROPOSED LIGHTING CONTROLLER SHALL BE CONNECTED TO THE NEW ELECTRIC SERVICE.

MODEL: 1400BELNAMES  
FILE NAME: 021255light-1.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - MD	REVISED -
PLOT DATE = 1/25/2024	CHECKED - MH	REVISED -
	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

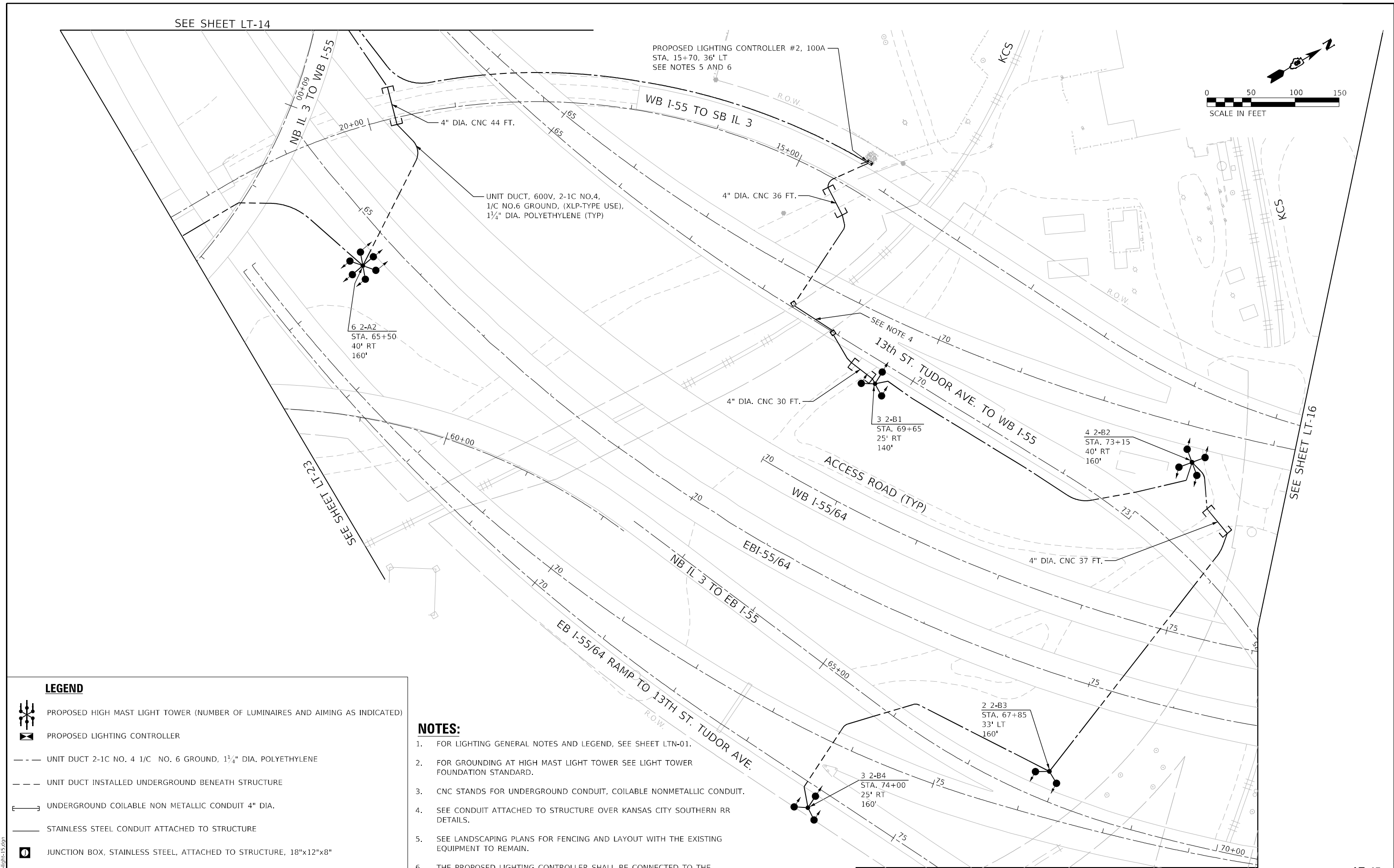
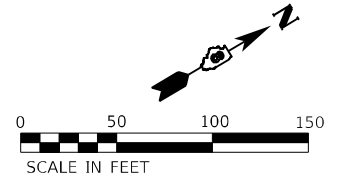
**PROPOSED LIGHTING PLAN  
FAI 70 (I-55 /064)**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	21
			CONTRACT NO. 76M86	
		ILLINOIS	FED. AID PROJECT	

**LT-14**

SEE SHEET LT-14



**LEGEND**

- PROPOSED HIGH MAST LIGHT TOWER (NUMBER OF LUMINAIRES AND AIMING AS INDICATED)
- PROPOSED LIGHTING CONTROLLER
- UNIT DUCT 2-1C NO. 4 1/C NO. 6 GROUND, 1 1/4" DIA. POLYETHYLENE
- UNIT DUCT INSTALLED UNDERGROUND BENEATH STRUCTURE
- UNDERGROUND COILABLE NON METALLIC CONDUIT 4" DIA.
- STAINLESS STEEL CONDUIT ATTACHED TO STRUCTURE
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x12"x8"
- GROUND ROD

**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND LEGEND, SEE SHEET LTN-01.
2. FOR GROUNDING AT HIGH MAST LIGHT TOWER SEE LIGHT TOWER FOUNDATION STANDARD.
3. CNC STANDS FOR UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT.
4. SEE CONDUIT ATTACHED TO STRUCTURE OVER KANSAS CITY SOUTHERN RR DETAILS.
5. SEE LANDSCAPING PLANS FOR FENCING AND LAYOUT WITH THE EXISTING EQUIPMENT TO REMAIN.
6. THE PROPOSED LIGHTING CONTROLLER SHALL BE CONNECTED TO THE NEW ELECTRIC SERVICE.

MODEL: 1400BELNAME  
FILE NAME: 0212251111-15.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
8330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
DRAWN - MD	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - MH	REVISED -
PLOT DATE = 1/23/2024	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**









**PROPOSED LIGHTING PLAN  
FAI 70 (I-55 /064)**

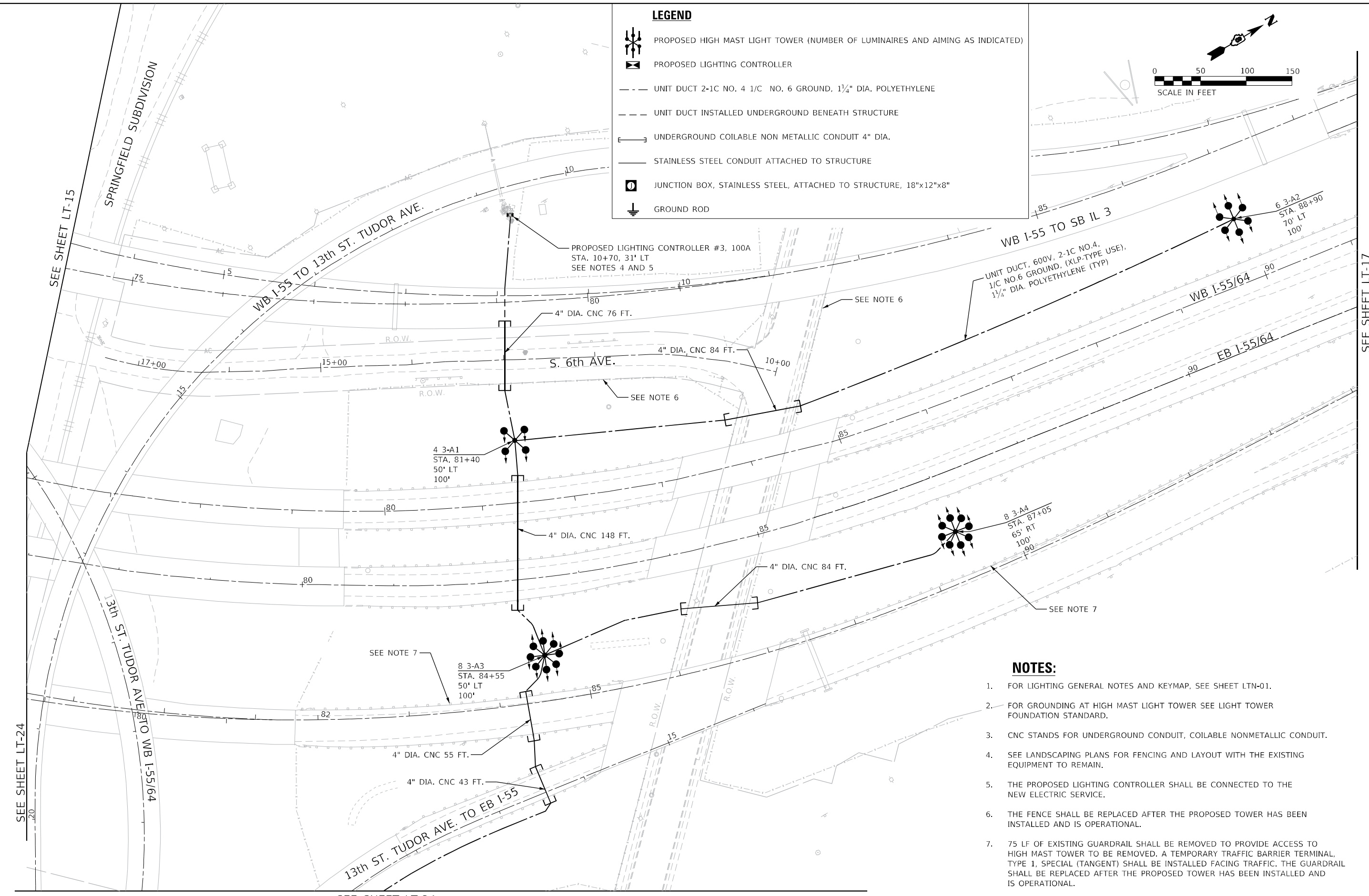
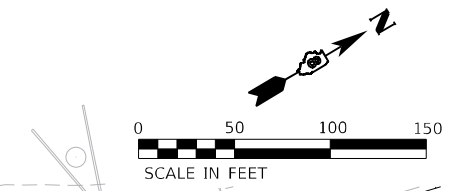
SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	22
			CONTRACT NO. 76M86	
ILLINOIS FED. AID PROJECT				

LT-15

**LEGEND**

-  PROPOSED HIGH MAST LIGHT TOWER (NUMBER OF LUMINAIRES AND AIMING AS INDICATED)
-  PROPOSED LIGHTING CONTROLLER
-  UNIT DUCT 2-1C NO. 4 1/C NO. 6 GROUND, 1 1/4" DIA. POLYETHYLENE
-  UNIT DUCT INSTALLED UNDERGROUND BENEATH STRUCTURE
-  UNDERGROUND COILABLE NON METALLIC CONDUIT 4" DIA.
-  STAINLESS STEEL CONDUIT ATTACHED TO STRUCTURE
-  JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x12"x8"
-  GROUND ROD



**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. FOR GROUNDING AT HIGH MAST LIGHT TOWER SEE LIGHT TOWER FOUNDATION STANDARD.
3. CNC STANDS FOR UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT.
4. SEE LANDSCAPING PLANS FOR FENCING AND LAYOUT WITH THE EXISTING EQUIPMENT TO REMAIN.
5. THE PROPOSED LIGHTING CONTROLLER SHALL BE CONNECTED TO THE NEW ELECTRIC SERVICE.
6. THE FENCE SHALL BE REPLACED AFTER THE PROPOSED TOWER HAS BEEN INSTALLED AND IS OPERATIONAL.
7. 75 LF OF EXISTING GUARDRAIL SHALL BE REMOVED TO PROVIDE ACCESS TO HIGH MAST TOWER TO BE REMOVED. A TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT) SHALL BE INSTALLED FACING TRAFFIC. THE GUARDRAIL SHALL BE REPLACED AFTER THE PROPOSED TOWER HAS BEEN INSTALLED AND IS OPERATIONAL.

MODEL: \\MODEL\NAME  
FILE: NAME.DWG  
DATE: 2/29/2024

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
DRAWN - MD	REVISOR -	
PLOT SCALE = 100,0000' / in.	CHECKED - MH	REVISED -
PLOT DATE = 2/29/2024	DATE - 01-12-2024	REVISED -









**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

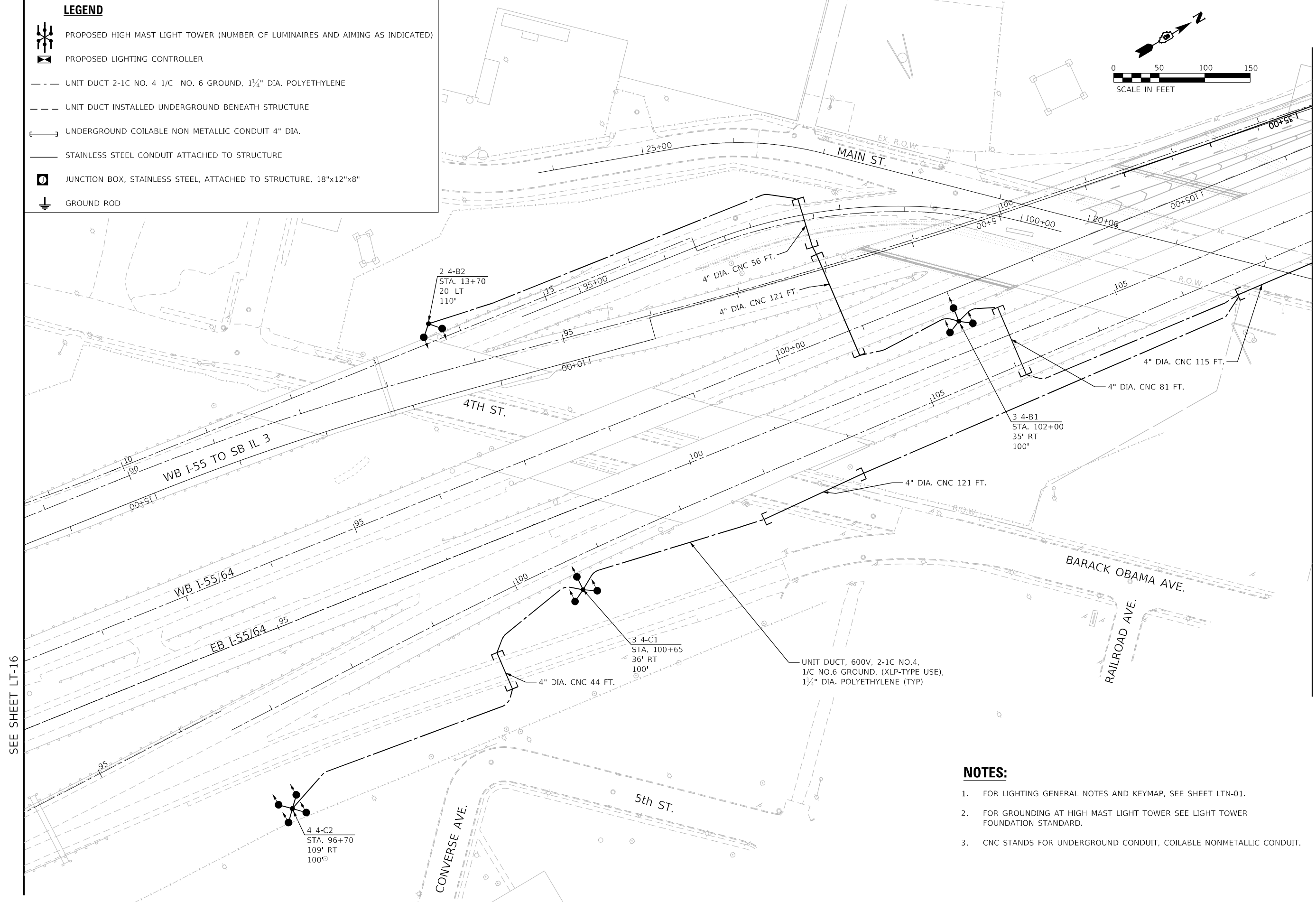
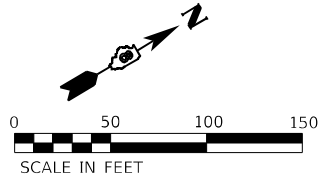
**PROPOSED LIGHTING PLAN  
FAI 70 (I-55 /7064)**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	23
CONTRACT NO. 76M86				
ILLINOIS FED. AID PROJECT				

**LEGEND**

-  PROPOSED HIGH MAST LIGHT TOWER (NUMBER OF LUMINAIRES AND AIMING AS INDICATED)
-  PROPOSED LIGHTING CONTROLLER
-  UNIT DUCT 2-1C NO. 4 1/C NO. 6 GROUND, 1 1/4" DIA. POLYETHYLENE
-  UNIT DUCT INSTALLED UNDERGROUND BENEATH STRUCTURE
-  UNDERGROUND COILABLE NON METALLIC CONDUIT 4" DIA.
-  STAINLESS STEEL CONDUIT ATTACHED TO STRUCTURE
-  JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x12"x8"
-  GROUND ROD



**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. FOR GROUNDING AT HIGH MAST LIGHT TOWER SEE LIGHT TOWER FOUNDATION STANDARD.
3. CNC STANDS FOR UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT.

SEE SHEET LT-16

SEE SHEET LT-18

MODEL: I:\MODEL\NAME  
FILE NAME: D:\25\5\light-17.dgn

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CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - MD	REVISED -
PLOT DATE = 1/25/2024	CHECKED - MH	REVISED -
	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN  
FAI 70 (I-55 /064)**









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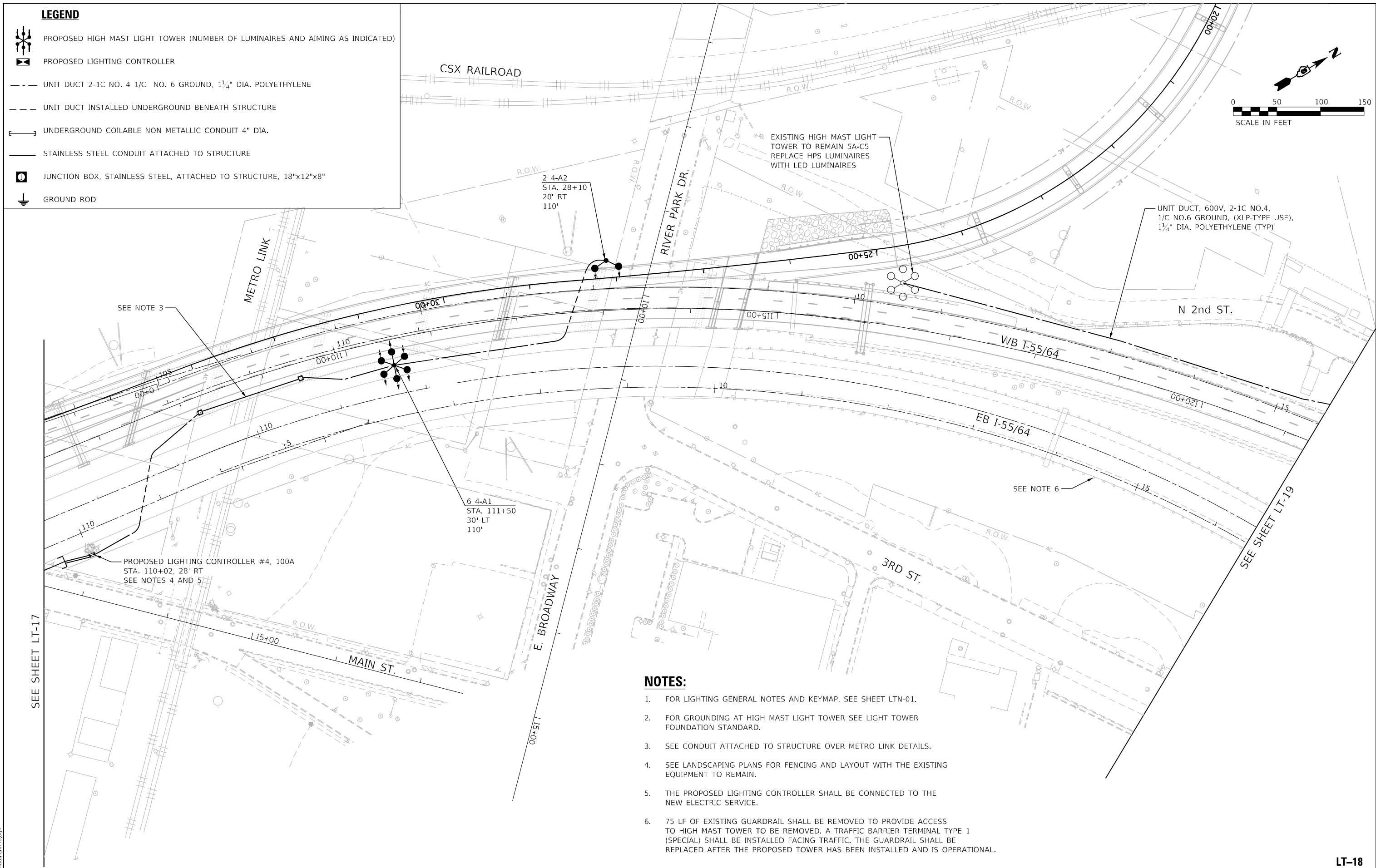
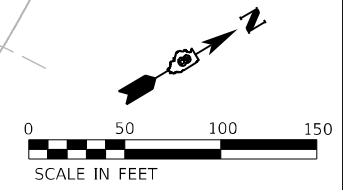
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	24
CONTRACT NO. 76M86			ILLINOIS FED. AID PROJECT	

**LT-17**



**LEGEND**

-  PROPOSED HIGH MAST LIGHT TOWER (NUMBER OF LUMINAIRES AND AIMING AS INDICATED)
-  PROPOSED LIGHTING CONTROLLER
-  UNIT DUCT 2-1C NO. 4 1/C NO. 6 GROUND, 1 1/4" DIA. POLYETHYLENE
-  UNIT DUCT INSTALLED UNDERGROUND BENEATH STRUCTURE
-  UNDERGROUND COILABLE NON METALLIC CONDUIT 4" DIA.
-  STAINLESS STEEL CONDUIT ATTACHED TO STRUCTURE
-  JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x12"x8"
-  GROUND ROD



**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. FOR GROUNDING AT HIGH MAST LIGHT TOWER SEE LIGHT TOWER FOUNDATION STANDARD.
3. SEE CONDUIT ATTACHED TO STRUCTURE OVER METRO LINK DETAILS.
4. SEE LANDSCAPING PLANS FOR FENCING AND LAYOUT WITH THE EXISTING EQUIPMENT TO REMAIN.
5. THE PROPOSED LIGHTING CONTROLLER SHALL BE CONNECTED TO THE NEW ELECTRIC SERVICE.
6. 75 LF OF EXISTING GUARDRAIL SHALL BE REMOVED TO PROVIDE ACCESS TO HIGH MAST TOWER TO BE REMOVED. A TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) SHALL BE INSTALLED FACING TRAFFIC. THE GUARDRAIL SHALL BE REPLACED AFTER THE PROPOSED TOWER HAS BEEN INSTALLED AND IS OPERATIONAL.

MODEL NAME: D:\BEN\18.dgn  
FILE NAME: D:\BEN\18.dgn

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CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

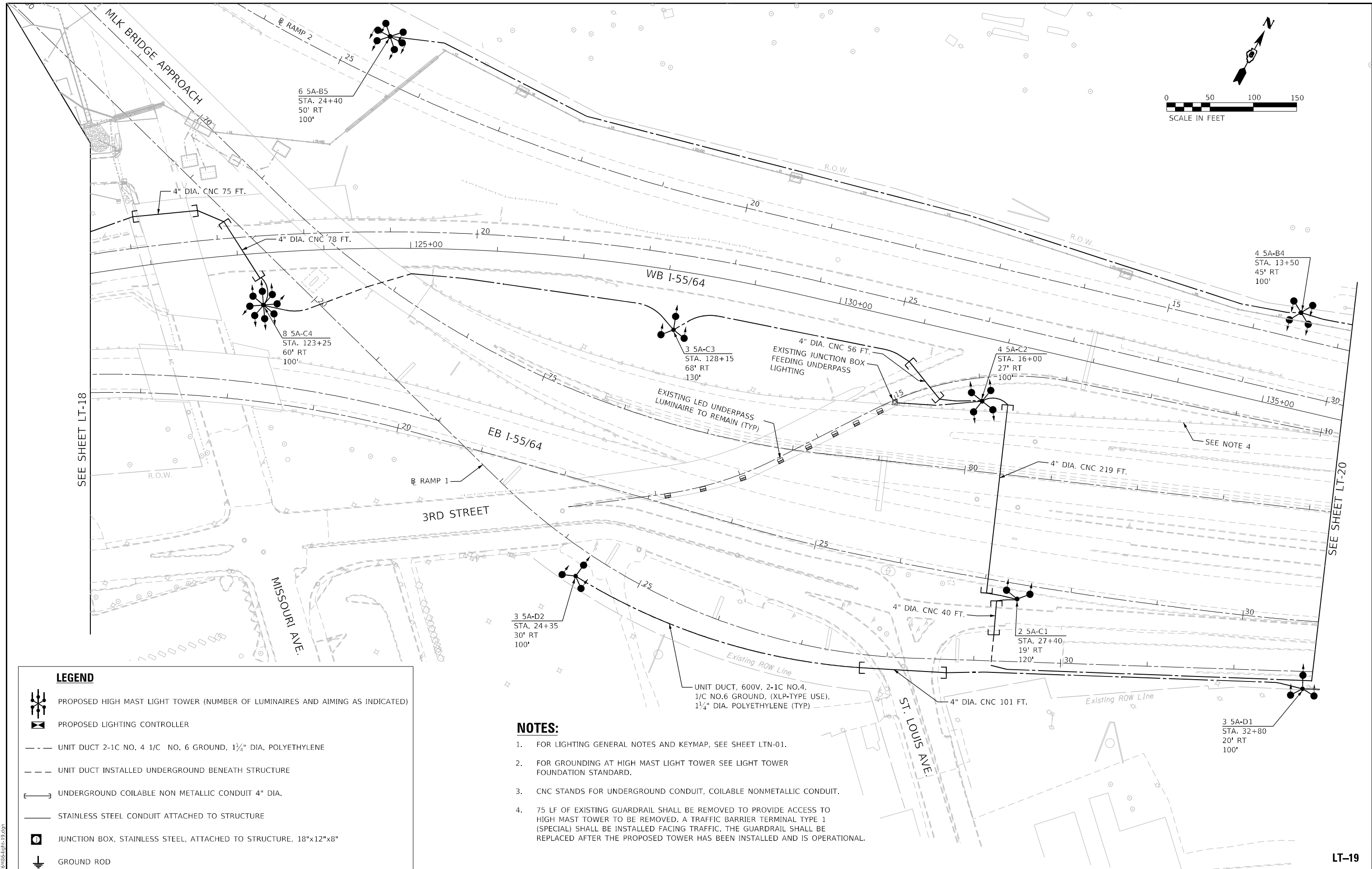
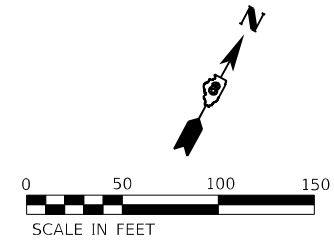
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PLOT DATE = 1/25/2024	CHECKED - MH	REVISED -
	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN  
FAI 70 (I-55 / 7064)**

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	25
CONTRACT NO. 76M86				
ILLINOIS FED. AID PROJECT				











SEE SHEET LT-18

SEE SHEET LT-20

SEE NOTE 4

**LEGEND**

-  PROPOSED HIGH MAST LIGHT TOWER (NUMBER OF LUMINAIRES AND AIMING AS INDICATED)
-  PROPOSED LIGHTING CONTROLLER
-  UNIT DUCT 2-1C NO. 4 1/C NO. 6 GROUND, 1 1/4" DIA. POLYETHYLENE
-  UNIT DUCT INSTALLED UNDERGROUND BENEATH STRUCTURE
-  UNDERGROUND COILABLE NON METALLIC CONDUIT 4" DIA.
-  STAINLESS STEEL CONDUIT ATTACHED TO STRUCTURE
-  JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x12"x8"
-  GROUND ROD

**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. FOR GROUNDING AT HIGH MAST LIGHT TOWER SEE LIGHT TOWER FOUNDATION STANDARD.
3. CNC STANDS FOR UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT.
4. 75 LF OF EXISTING GUARDRAIL SHALL BE REMOVED TO PROVIDE ACCESS TO HIGH MAST TOWER TO BE REMOVED. A TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) SHALL BE INSTALLED FACING TRAFFIC. THE GUARDRAIL SHALL BE REPLACED AFTER THE PROPOSED TOWER HAS BEEN INSTALLED AND IS OPERATIONAL.

MODEL: 1408BELNAMES  
FILE NAME: 021255light-19.dgn

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6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - MD	REVISED -
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	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**









**PROPOSED LIGHTING PLAN  
FAI 70 (I-55 /7064)**

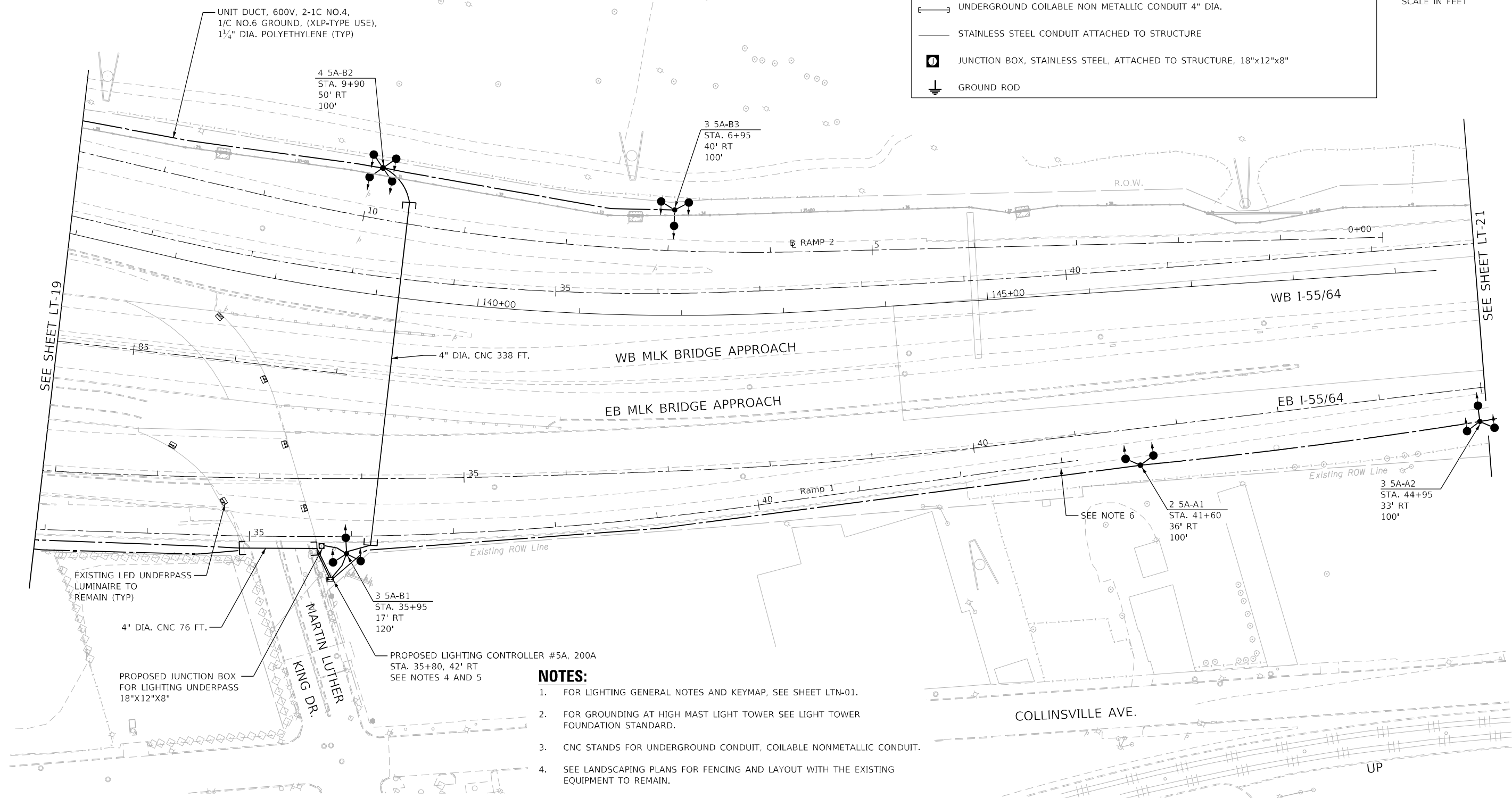
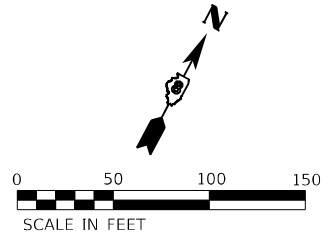
SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	26
			CONTRACT NO. 76M86	
ILLINOIS FED. AID PROJECT				

LT-19

**LEGEND**

-  PROPOSED HIGH MAST LIGHT TOWER (NUMBER OF LUMINAIRES AND AIMING AS INDICATED)
-  PROPOSED LIGHTING CONTROLLER
-  UNIT DUCT 2-1C NO. 4 1/C NO. 6 GROUND, 1 1/4" DIA. POLYETHYLENE
-  UNIT DUCT INSTALLED UNDERGROUND BENEATH STRUCTURE
-  UNDERGROUND COILABLE NON METALLIC CONDUIT 4" DIA.
-  STAINLESS STEEL CONDUIT ATTACHED TO STRUCTURE
-  JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x12"x8"
-  GROUND ROD



- NOTES:**
1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
  2. FOR GROUNDING AT HIGH MAST LIGHT TOWER SEE LIGHT TOWER FOUNDATION STANDARD.
  3. CNC STANDS FOR UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT.
  4. SEE LANDSCAPING PLANS FOR FENCING AND LAYOUT WITH THE EXISTING EQUIPMENT TO REMAIN.
  5. THE PROPOSED LIGHTING CONTROLLER SHALL BE CONNECTED TO THE NEW ELECTRIC SERVICE.
  6. 75 LF OF EXISTING GUARDRAIL SHALL BE REMOVED TO PROVIDE ACCESS TO HIGH MAST TOWER TO BE REMOVED. A TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) SHALL BE INSTALLED FACING TRAFFIC. THE GUARDRAIL SHALL BE REPLACED AFTER THE PROPOSED TOWER HAS BEEN INSTALLED AND IS OPERATIONAL.

MODEL: \\MODEL\NAME: FILE: NAME: 02125656.dwg 1/25/2024

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 6330 Belmont Road, Suite 4B  
 Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - MD	REVISED -
PLOT DATE = 1/25/2024	CHECKED - MH	REVISED -
	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**









**PROPOSED LIGHTING PLAN  
 FAI 70 (I-55 / 7064)**

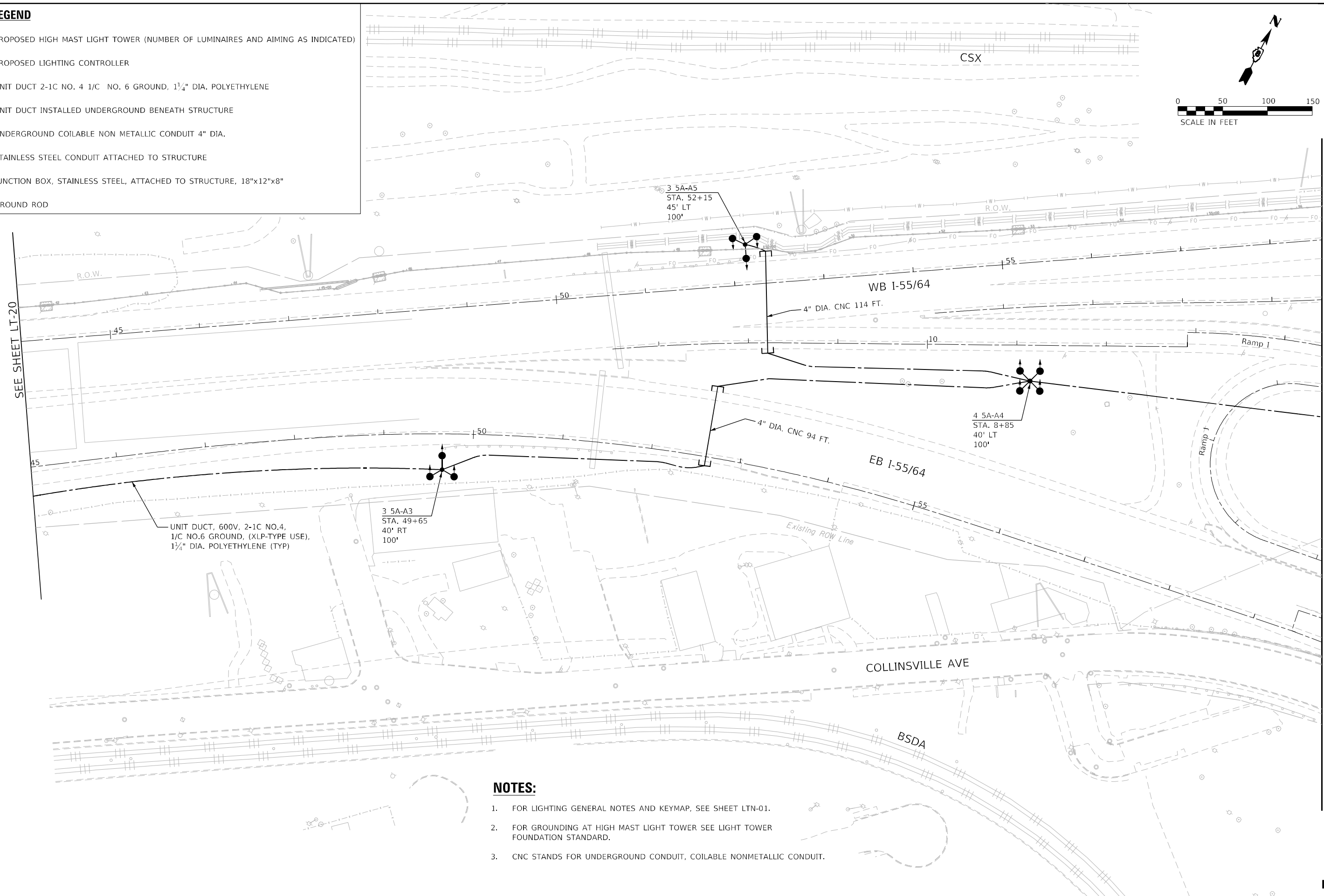
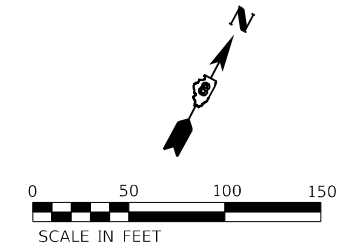
SCALE: 1"=50'    SHEET OF SHEETS    STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	27
CONTRACT NO. 76M86			ILLINOIS FED. AID PROJECT	

**LT-20**

**LEGEND**

-  PROPOSED HIGH MAST LIGHT TOWER (NUMBER OF LUMINAIRES AND AIMING AS INDICATED)
-  PROPOSED LIGHTING CONTROLLER
-  UNIT DUCT 2-1C NO. 4 1/C NO. 6 GROUND, 1 1/4" DIA. POLYETHYLENE
-  UNIT DUCT INSTALLED UNDERGROUND BENEATH STRUCTURE
-  UNDERGROUND COILABLE NON METALLIC CONDUIT 4" DIA.
-  STAINLESS STEEL CONDUIT ATTACHED TO STRUCTURE
-  JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x12"x8"
-  GROUND ROD



**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. FOR GROUNDING AT HIGH MAST LIGHT TOWER SEE LIGHT TOWER FOUNDATION STANDARD.
3. CNC STANDS FOR UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT.

MODEL: 140801.MXD  
FILE NAME: D:\2025\11\14\11-21.dwg

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
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PLOT DATE = 1/25/2024	CHECKED - MH	REVISED -
	DATE - 01-12-2024	REVISED -









**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

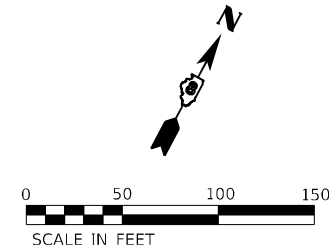
**PROPOSED LIGHTING PLAN  
FAI 70 (I-55 /70/64)**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	28
CONTRACT NO. 76M86				
ILLINOIS FED. AID PROJECT				

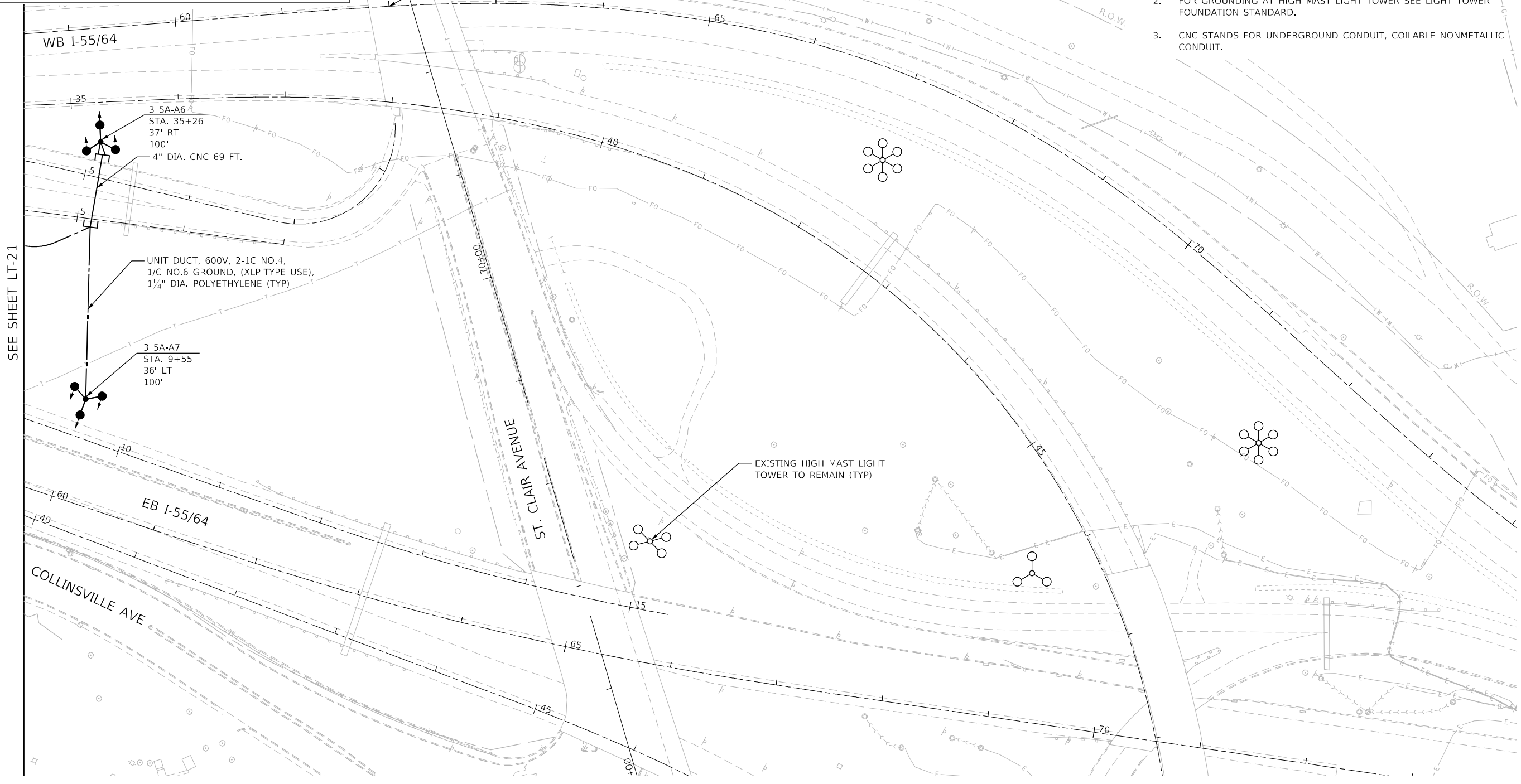
**LEGEND**

-  PROPOSED HIGH MAST LIGHT TOWER (NUMBER OF LUMINAIRES AND AIMING AS INDICATED)
-  PROPOSED LIGHTING CONTROLLER
-  UNIT DUCT 2-1C NO. 4 1/C NO. 6 GROUND, 1 1/4" DIA. POLYETHYLENE
-  UNIT DUCT INSTALLED UNDERGROUND BENEATH STRUCTURE
-  UNDERGROUND COILABLE NON METALLIC CONDUIT 4" DIA.
-  STAINLESS STEEL CONDUIT ATTACHED TO STRUCTURE
-  JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x12"x8"
-  GROUND ROD



**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. FOR GROUNDING AT HIGH MAST LIGHT TOWER SEE LIGHT TOWER FOUNDATION STANDARD.
3. CNC STANDS FOR UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT.



SEE SHEET LT-21

MODEL: I:\MODEL\NAME: CONSULTING ENGINEERS: 6330 Belmont Road, Suite 4B Downers Grove, IL 60516

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 6330 Belmont Road, Suite 4B  
 Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
DRAWN - MD	REVISOR -	
PLOT SCALE = 100,0000' / in.	CHECKED - MH	REVISED -
PLOT DATE = 1/25/2024	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

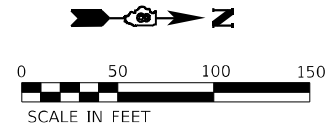
**PROPOSED LIGHTING PLAN  
 FAI 70 (I-55 /064)**

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	29
CONTRACT NO. 76M86				
ILLINOIS FED. AID PROJECT				

SEE SHEET LT-14

SEE SHEET LT-14



PROP. R.O.W.

EB I-55 TO SB IL 3

UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE (TYP)

WB I-55 TO SB IL 3

2 2-A4  
STA. 28+10  
25' LT  
120'

IL RTE 3

3 2-A3  
STA. 55+25  
50' LT  
140'

NB IL 3 TO WB I-55

NB IL 3 TO EB I-55

SEE SHEET LT-15

Mac ARTHUR BRIDGE

(ABANDONED)

**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. FOR GROUNDING AT HIGH MAST LIGHT TOWER SEE LIGHT TOWER FOUNDATION STANDARD.

**LEGEND**

- PROPOSED HIGH MAST LIGHT TOWER (NUMBER OF LUMINAIRES AND AIMING AS INDICATED)
- PROPOSED LIGHTING CONTROLLER
- UNIT DUCT 2-1C NO. 4 1/C NO. 6 GROUND, 1 1/4" DIA. POLYETHYLENE
- UNIT DUCT INSTALLED UNDERGROUND BENEATH STRUCTURE
- UNDERGROUND COILABLE NON METALLIC CONDUIT 4" DIA.
- STAINLESS STEEL CONDUIT ATTACHED TO STRUCTURE
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x12"x8"
- GROUND ROD

MODEL NAME: D:\PROJECTS\76M86\76M86.dwg  
FILE NAME: 02/25/2024\76M86.dwg

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
DRAWN - MD	REVISIONS -	
PLOT SCALE = 100,0039' / in.	CHECKED - MH	REVISED -
PLOT DATE = 1/25/2024	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**









**PROPOSED LIGHTING PLAN  
FAI 70 (I-55 /7064)**

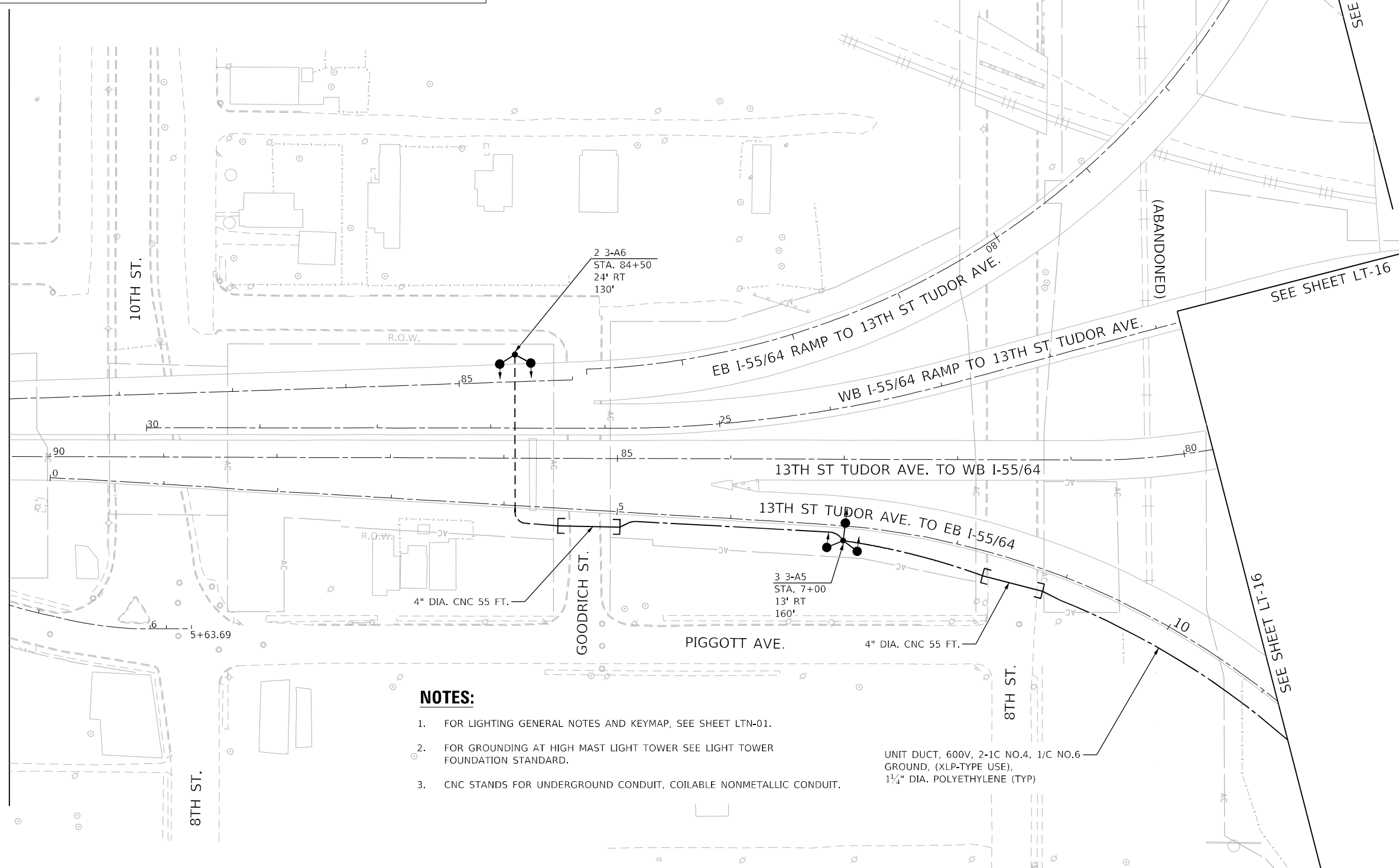
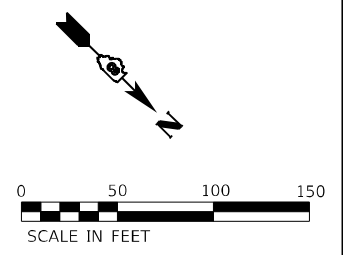
SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	30
CONTRACT NO. 76M86			ILLINOIS FED. AID PROJECT	

**LT-23**

**LEGEND**

-  PROPOSED HIGH MAST LIGHT TOWER (NUMBER OF LUMINAIRES AND AIMING AS INDICATED)
-  PROPOSED LIGHTING CONTROLLER
-  UNIT DUCT 2-1C NO. 4 1/C NO. 6 GROUND, 1 1/4" DIA. POLYETHYLENE
-  UNIT DUCT INSTALLED UNDERGROUND BENEATH STRUCTURE
-  UNDERGROUND COILABLE NON METALLIC CONDUIT 4" DIA.
-  STAINLESS STEEL CONDUIT ATTACHED TO STRUCTURE
-  JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x12"x8"
-  GROUND ROD



**NOTES:**

1. FOR LIGHTING GENERAL NOTES AND KEYMAP, SEE SHEET LTN-01.
2. FOR GROUNDING AT HIGH MAST LIGHT TOWER SEE LIGHT TOWER FOUNDATION STANDARD.
3. CNC STANDS FOR UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT.

UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE (TYP)

MODEL: 150DELVARIES  
FILE: \\ames\delvar\150delvar\150delvar-24.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
PLOT SCALE = 100.0340' / in.	DRAWN - MD	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**





**PROPOSED LIGHTING PLAN  
FAI 70 (I-55 / 7064)**

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	31
			CONTRACT NO. 76M86	
ILLINOIS FED. AID PROJECT				

**LT-24**

**LEGEND**

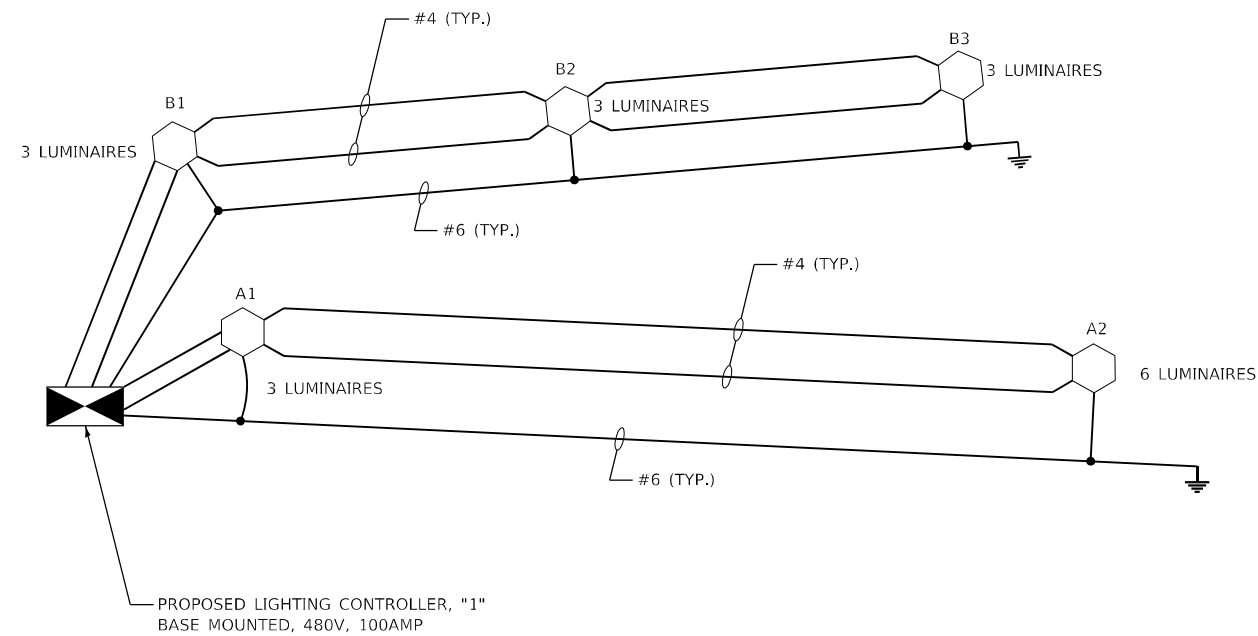
-  PROPOSED LIGHTING CONTROLLER "1" 480V, 1 PHASE, 3 WIRE  
100 AMP, WITH 2P BRANCH CIRCUIT BREAKERS, BASE MOUNTED
-  UNIT DUCT
-  PROPOSED LIGHT TOWER WITH LUMINAIRES OUTPUT DESIGNATION H
-  GROUND ROD (AT EACH POLE PER STANDARDS)

**LOAD TABLE LIGHTING CONTROLLER "1"**

480V, A.C. 1 PHASE, 3 WIRE, 100A WITH 2P BRANCH CIRCUIT BREAKERS

CIRCUIT	TOTAL NO. OF LUMINAIRES	TOTAL CURRENT IN AMPS	TOTAL WATTAGE
A	9	6.48	2,790
B	9	6.48	2,790
C	SPARE	-	-
D	SPARE	-	-
E	SPARE	-	-
F	SPARE	-	-
TOTAL	18	12.96	5,580

TOTAL LOAD IN WATTS 5,580  
TOTAL LOAD IN AMPS 12.96



MODEL: I:\MODEL\NAME: FILE: NAME: 021225\Lighting\Lighting-01.dwg

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Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - MH	REVISED -
DRAWN - MD	REVISIONS -	
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**





**CONTROLLER 1 - WIRING DIAGRAM  
FAI 70 (I-55 /7064)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 70	SECTION 82-3, 4HL-4	COUNTY ST. CLAIR	TOTAL SHEETS 51	SHEET NO. 32
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76M86	



**LEGEND**

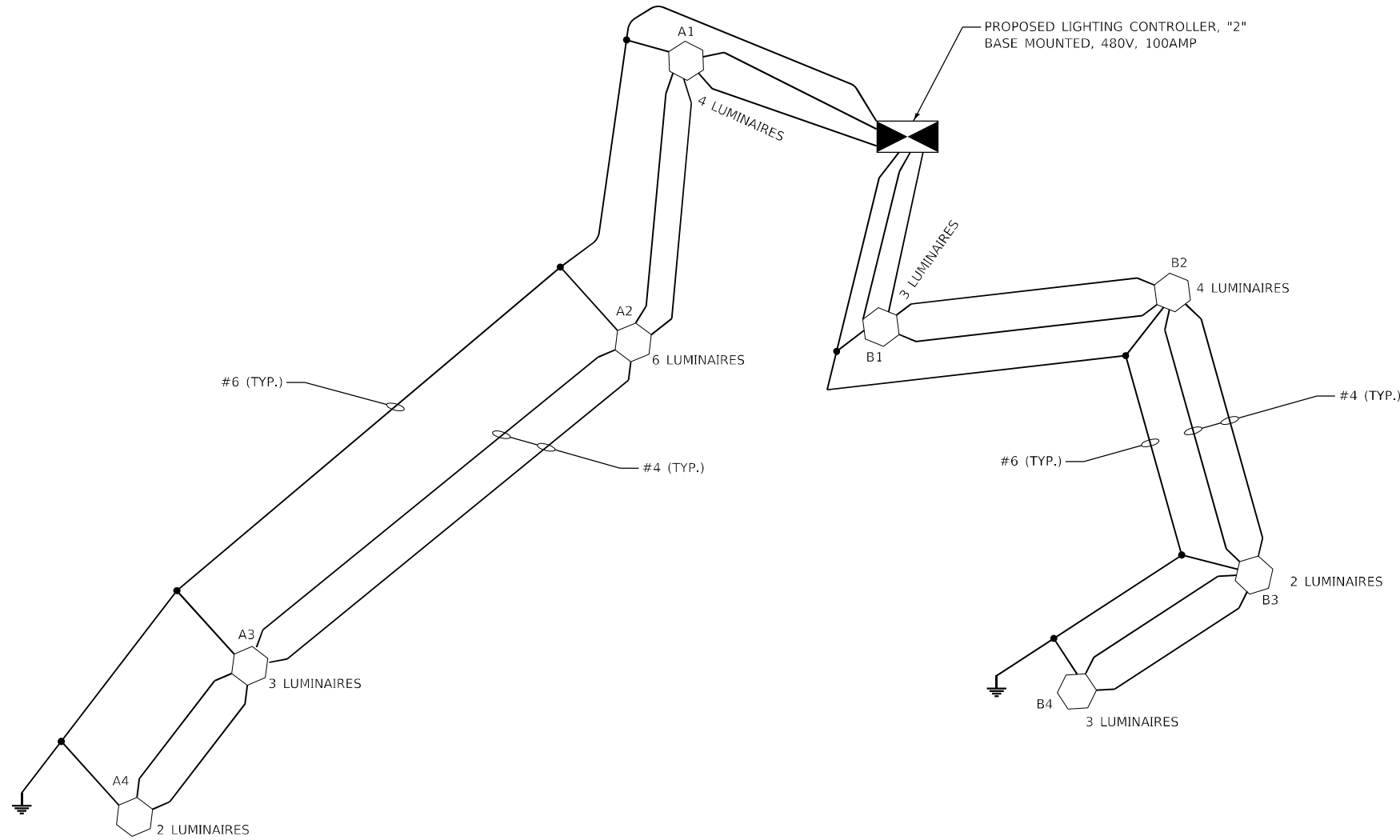
-  PROPOSED LIGHTING CONTROLLER "2" 480V, 1 PHASE, 3 WIRE  
100 AMP, WITH 2P BRANCH CIRCUIT BREAKERS, BASE MOUNTED
-  UNIT DUCT
-  PROPOSED LIGHT TOWER WITH LUMINAIRES OUTPUT DESIGNATION H
-  GROUND ROD (AT EACH POLE PER STANDARDS)

**LOAD TABLE LIGHTING CONTROLLER "2"**

480V, A.C. 1 PHASE, 3 WIRE, 100A WITH 2P BRANCH CIRCUIT BREAKERS

CIRCUIT	TOTAL NO. OF LUMINAIRES	TOTAL CURRENT IN AMPS	TOTAL WATTAGE
A	15	10.80	4,650
B	12	8.64	3,720
C	SPARE	-	-
D	SPARE	-	-
E	SPARE	-	-
F	SPARE	-	-
TOTAL	27	19.44	8,370

TOTAL LOAD IN WATTS 8,370  
TOTAL LOAD IN AMPS 19.44



27

MODEL: 14081.MXD  
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Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - MH	REVISED -
DRAWN - MD	CHECKED - BL	REVISED -
PLOT SCALE = 100,0000' / in.	DATE - 01-12-2024	REVISED -
PLOT DATE = 1/25/2024		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**





**CONTROLLER 2 - WIRING DIAGRAM  
FAI 70 (I-55 /7064)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	33
			CONTRACT NO. 76M86	
		ILLINOIS FED. AID PROJECT		

LT-26

**LEGEND**

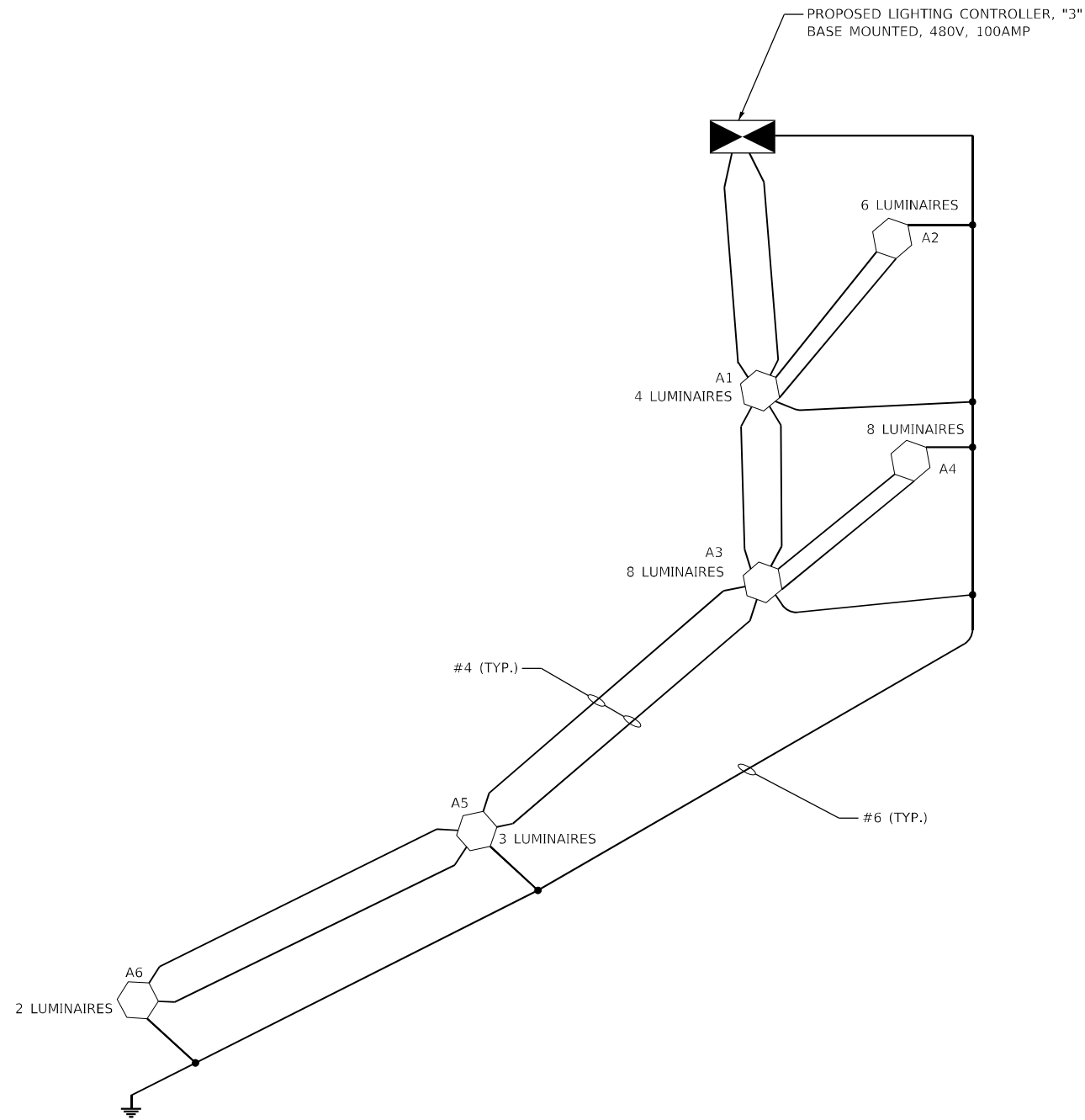
-  PROPOSED LIGHTING CONTROLLER "3" 480V, 1 PHASE, 3 WIRE 100 AMP, WITH 2P BRANCH CIRCUIT BREAKERS, BASE MOUNTED
-  UNIT DUCT
-  PROPOSED LIGHT TOWER WITH LUMINAIRES OUTPUT DESIGNATION H
-  GROUND ROD (AT EACH POLE PER STANDARDS)

**LOAD TABLE LIGHTING CONTROLLER "3"**

480V, A.C. 1 PHASE, 3 WIRE, 100A WITH 30 AMP 2P BRANCH CIRCUIT BREAKERS

CIRCUIT	TOTAL NO. OF LUMINAIRES	TOTAL CURRENT IN AMPS	TOTAL WATTAGE
A	31	22.3	9,610
B	SPARE	-	-
C	SPARE	-	-
D	SPARE	-	-
E	SPARE	-	-
F	SPARE	-	-
TOTAL	31	22.3	9,610

TOTAL LOAD IN WATTS 9,610  
TOTAL LOAD IN AMPS 22.3



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CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - MH	REVISED -
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PLOT DATE = 1/25/2024	CHECKED - BL	REVISED -
	DATE - 01-12-2024	REVISED -





**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONTROLLER 3 - WIRING DIAGRAM  
FAI 70 (I-55 /7064)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	34
			CONTRACT NO. 76M86	
		ILLINOIS	FED. AID PROJECT	

**LEGEND**

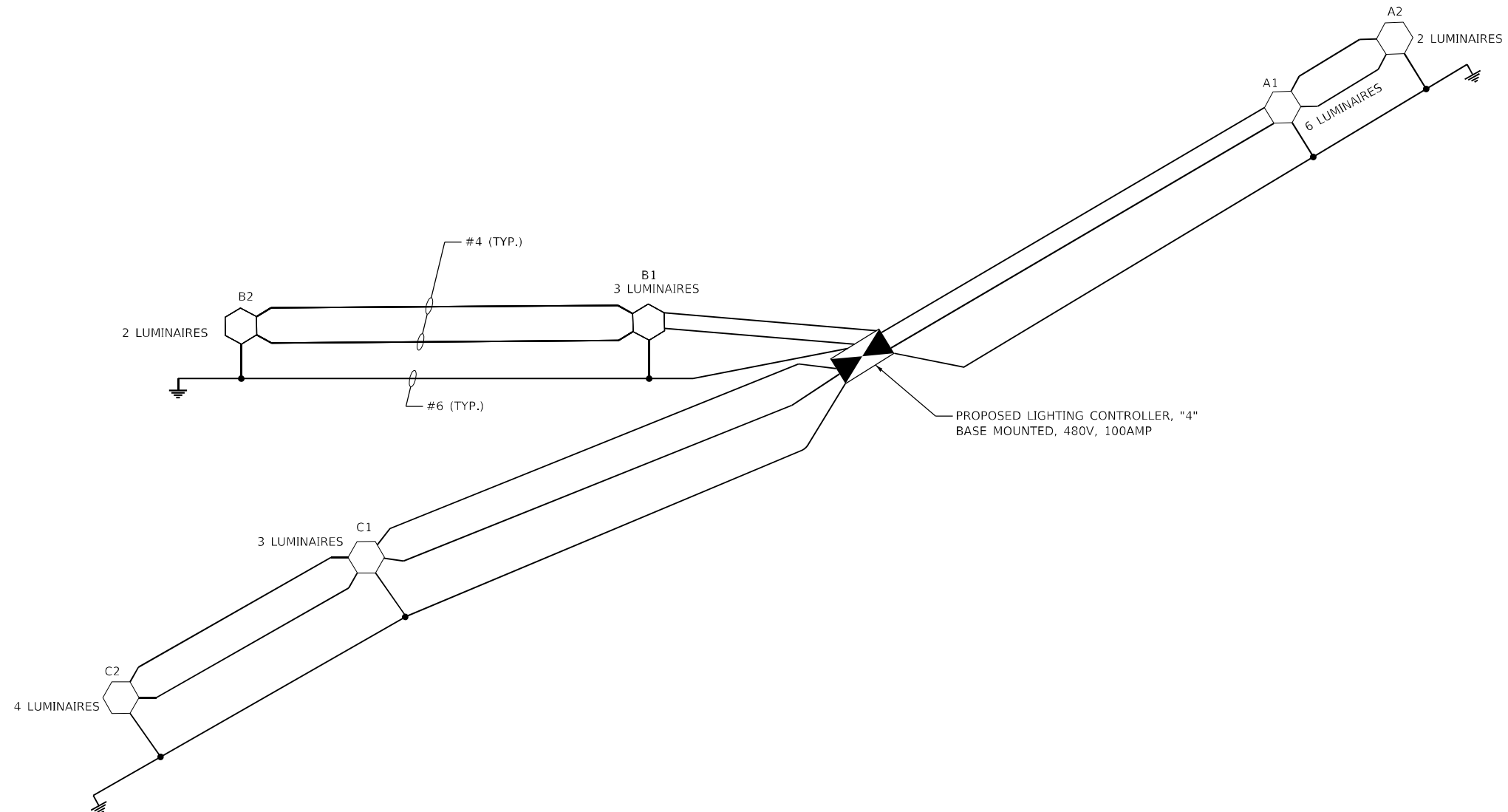
-  PROPOSED LIGHTING CONTROLLER "4" 480V, 1 PHASE, 3 WIRE 100 AMP, WITH 2P BRANCH CIRCUIT BREAKERS, BASE MOUNTED
-  UNIT DUCT
-  PROPOSED LIGHT TOWER WITH LUMINAIRES OUTPUT DESIGNATION H
-  GROUND ROD (AT EACH POLE PER STANDARDS)

**LOAD TABLE LIGHTING CONTROLLER "4"**

480V, A.C. 1 PHASE, 3 WIRE, 100A WITH 2P BRANCH CIRCUIT BREAKERS

CIRCUIT	TOTAL NO. OF LUMINAIRES	TOTAL CURRENT IN AMPS	TOTAL WATTAGE
A	8	5.8	2,480
B	5	3.6	1,550
C	7	5.0	2,170
D	SPARE	-	-
E	SPARE	-	-
F	SPARE	-	-
TOTAL	20	14.4	6,200

TOTAL LOAD IN WATTS 6,200  
TOTAL LOAD IN AMPS 14.4



MODEL: 11/08/2018  
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CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - MH	REVISED -
	DRAWN - MD	REVISED -
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PLOT DATE = 1/25/2024	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONTROLLER 4 - WIRING DIAGRAM  
FAI 70 (I-55 /7064)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	35
CONTRACT NO. 76M86			ILLINOIS FED. AID PROJECT	






### LOAD TABLE LIGHTING CONTROLLER "5A"

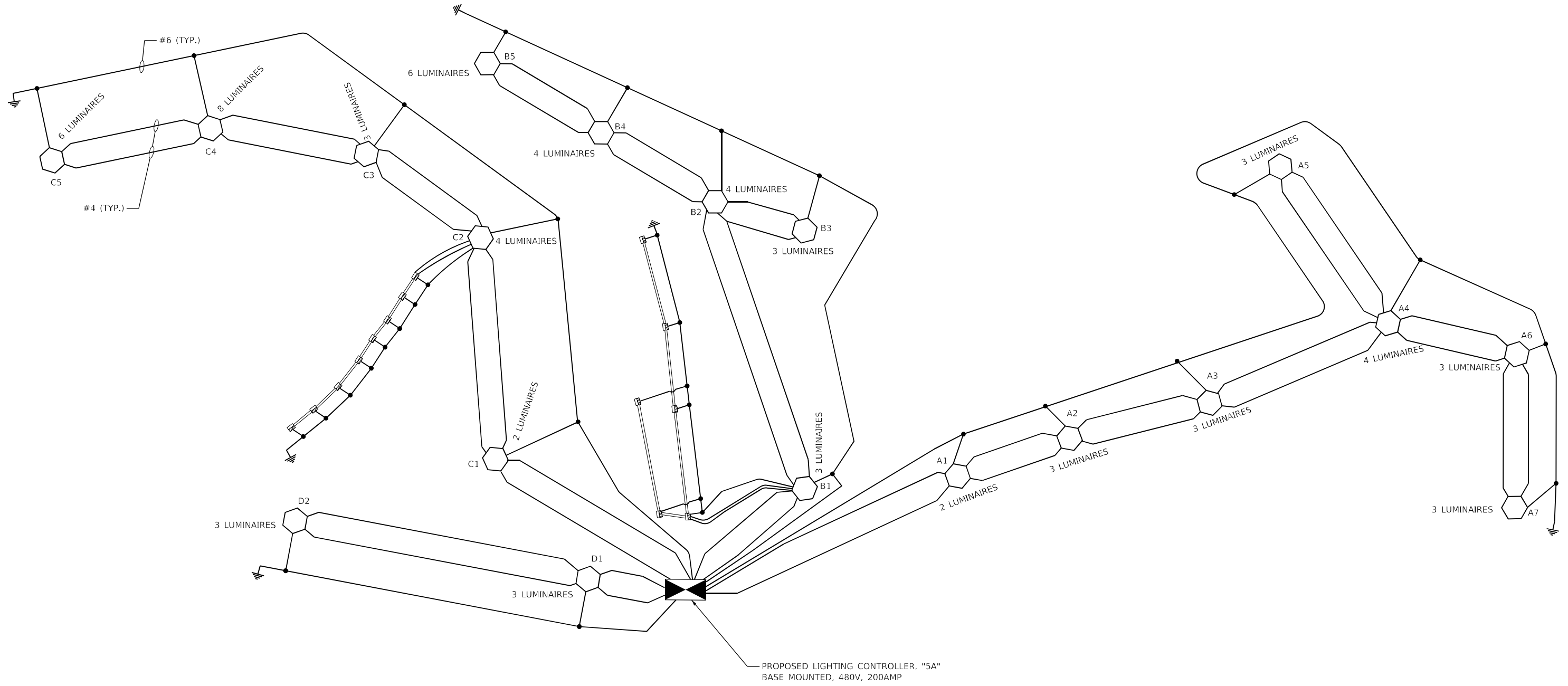
480V, A.C. 1 PHASE, 3 WIRE, 200A WITH 30 AMP 2P BRANCH CIRCUIT BREAKERS

CIRCUIT	NO. OF HIGHMAST LUMINAIRES	NO. OF UNDRPASS LUMINAIRES	TOTAL CURRENT IN AMPS	TOTAL WATTAGE
A	21	-	15.1	6,510
B	20	6	16.5	7,100
C	23	8	19.4	8,330
D	6	-	4.3	1,860
E	SPARE	-	-	-
F	SPARE	-	-	-
<b>TOTAL</b>	<b>70</b>	<b>14</b>	<b>55.3</b>	<b>23,800</b>

TOTAL LOAD IN WATTS 23,800  
TOTAL LOAD IN AMPS 55.3

#### LEGEND

-  PROPOSED LIGHTING CONTROLLER "5A" 480V, 1 PHASE, 3 WIRE 200 AMP, WITH 2P BRANCH CIRCUIT BREAKERS, BASE MOUNTED
-  UNIT DUCT
-  PROPOSED LIGHT TOWER WITH LUMINAIRES OUTPUT DESIGNATION H
-  GROUND ROD (AT EACH POLE PER STANDARDS)
-  EXISTING UNDERPASS LUMINAIRE



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LT-29

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

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PLOT DATE = 1/25/2024	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONTROLLER 5A - WIRING DIAGRAM  
FAI 70 (I-55 / 7064)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	36
			CONTRACT NO. 76M86	
ILLINOIS FED. AID PROJECT				



### Luminaire Performance Table



**Project**

Date	Contract Number	Section Number	County
08/02/22	76M86	82-3, 4HL-4	St. Clair
Marked Route Number		Municipality	
I-55/70/64		East St. Louis	

**Roadway**

Lane Width	# of Lanes	Median Width	I.E.S. Surface Classification	Q-Zero Value
12ft	8	N/A	R3	0.07

**Structure**

Mounting Height	Arm Length	Set-Back	Number of Luminaires (Highmast & Sign Lighting Only)
100ft	0ft	45ft	5

**Luminaire**

Description	I.E.S. Lateral Distribution	I.E.S. Vertical Distribution	
Highmast, Output Designation H	Type IV	Short	
Total Light Loss Factor (LLF)	B-U-G Rating	Shields	Dimming Protocol
0.7	U=0	N/A	0-10V

**Layout**

Spacing (to Nearest 5 ft)	Configuration (Opposite, Staggered, 1 Sided, or Median)
700ft	Two Rows, Staggered

**Performance**

Average Illuminance, $E_{AVE}$ (fc)	Uniformity Ratio, $E_{AVE}/E_{MIN}$		
0.9	3.0		
Average Luminance, $L_{AVE}$ (cd/m <sup>2</sup> )	Uniformity Ratio, $L_{AVE}/L_{MIN}$	Uniformity Ratio, $L_{MAX}/L_{MIN}$	Veiling Luminance Ratio, $L_v/L_{AVE}$
0.6	3.5	6.0	less than or equal to 0.3:1

**Light Trespass**

Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, $E_H$	Max. Vertical Illuminance at ROW, $E_v$
N/A	N/A	N/A

**Notes**

1. Set-Back is from Edge of Pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire.
2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
3. Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95.
4. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

Calculations shall be performed with four lanes in one direction only.

Compliance with performance criteria shall be held to one significant digit.

Printed 08/02/22

BDE 5630 (04/10/19)

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

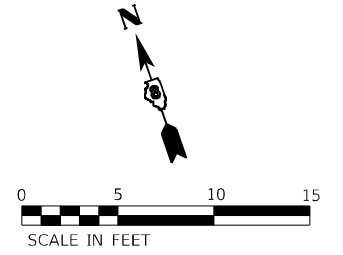
LUMINAIRE PERFORMANCE TABLE  
FAI 70 (I-55 /70/64)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	37
			CONTRACT NO. 76M86	
ILLINOIS FED. AID PROJECT				

**LANDSCAPING LEGEND**

 AGGREGATE BASE COURSE - TYPE CA-16



EBI-55/64 TO IL RTE 3 RAMP

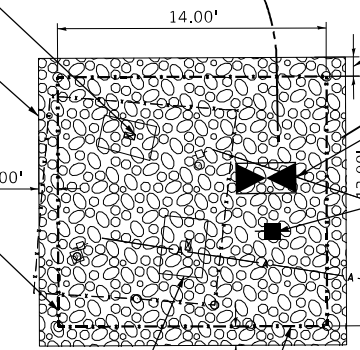
10+00

11+00

EXISTING LIGHTING CONTROLLER TO BE REMOVED

7.4 TON - AGGREGATE BASE COURSE - TYPE CA-16 - 8"

54' - CHAIN LINK FENCE, 8' (SPECIAL)



PROPOSED LIGHTING CONTROLLER #1  
TOP OF FOUNDATION = 411.40'

PROPOSED ELECTRIC SERVICE

EX ROW

EX ROW

EXISTING ITS CONTROLLER TO REMAIN

CHAIN LINK GATES (SPECIAL) - 8'X4' SINGLE

TEMP EASEMENT

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DESIGNED - AT  
 DRAWN - AT  
 CHECKED - GB  
 DATE - 11-01-23

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED CONTROLLER #1  
 LANDSCAPING PLANS**

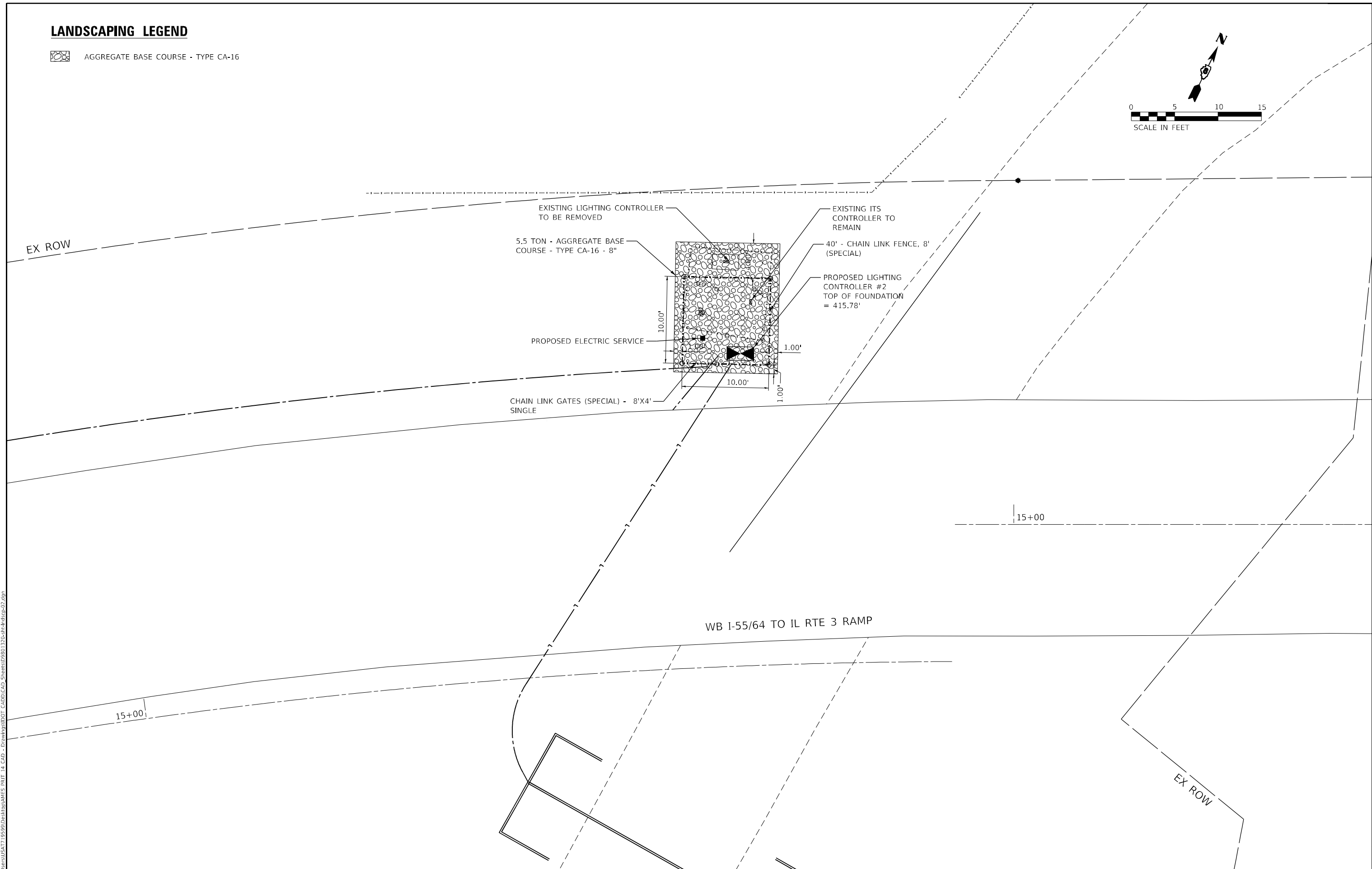
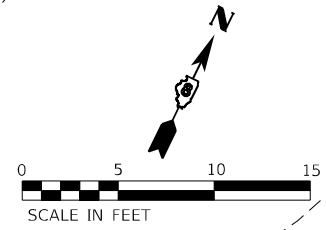
SCALE: 1"=5'    SHEET 1 OF 5 SHEETS    STA. 9+90 TO STA. 11+48

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	38
CONTRACT NO. 76M86			ILLINOIS FED. AID PROJECT	



**LANDSCAPING LEGEND**

 AGGREGATE BASE COURSE - TYPE CA-16



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**STATE OF ILLINOIS  
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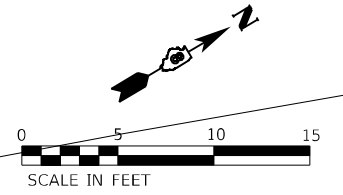
**PROPOSED CONTROLLER #2  
LANDSCAPING PLANS**

SCALE: 1"=5'    SHEET 2 OF 5 SHEETS    STA. 14+86 TO STA. 15+94

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	39
CONTRACT NO. 76M86			ILLINOIS FED. AID PROJECT	

**LANDSCAPING LEGEND**

 AGGREGATE BASE COURSE - TYPE CA-16



EX ROW

WB I-55/64 TO TUDOR AVE RAMP

11+00

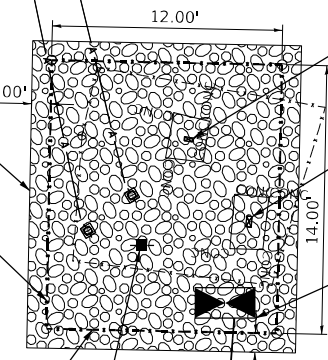
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6.9 TON - AGGREGATE BASE COURSE - TYPE CA-16 - 8"

52' - CHAIN LINK FENCE, 8' (SPECIAL)

CHAIN LINK GATES (SPECIAL) - 8'X4' SINGLE

PROPOSED ELECTRIC SERVICE



EXISTING ITS CONTROLLER TO REMAIN

EXISTING LIGHTING CONTROLLER TO BE REMOVED

PROPOSED LIGHTING CONTROLLER #3  
TOP OF FOUNDATION = 411.18'



USER NAME = USA719599	DESIGNED - AT	REVISED -
	DRAWN - AT	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED CONTROLLER #3  
LANDSCAPING PLANS**

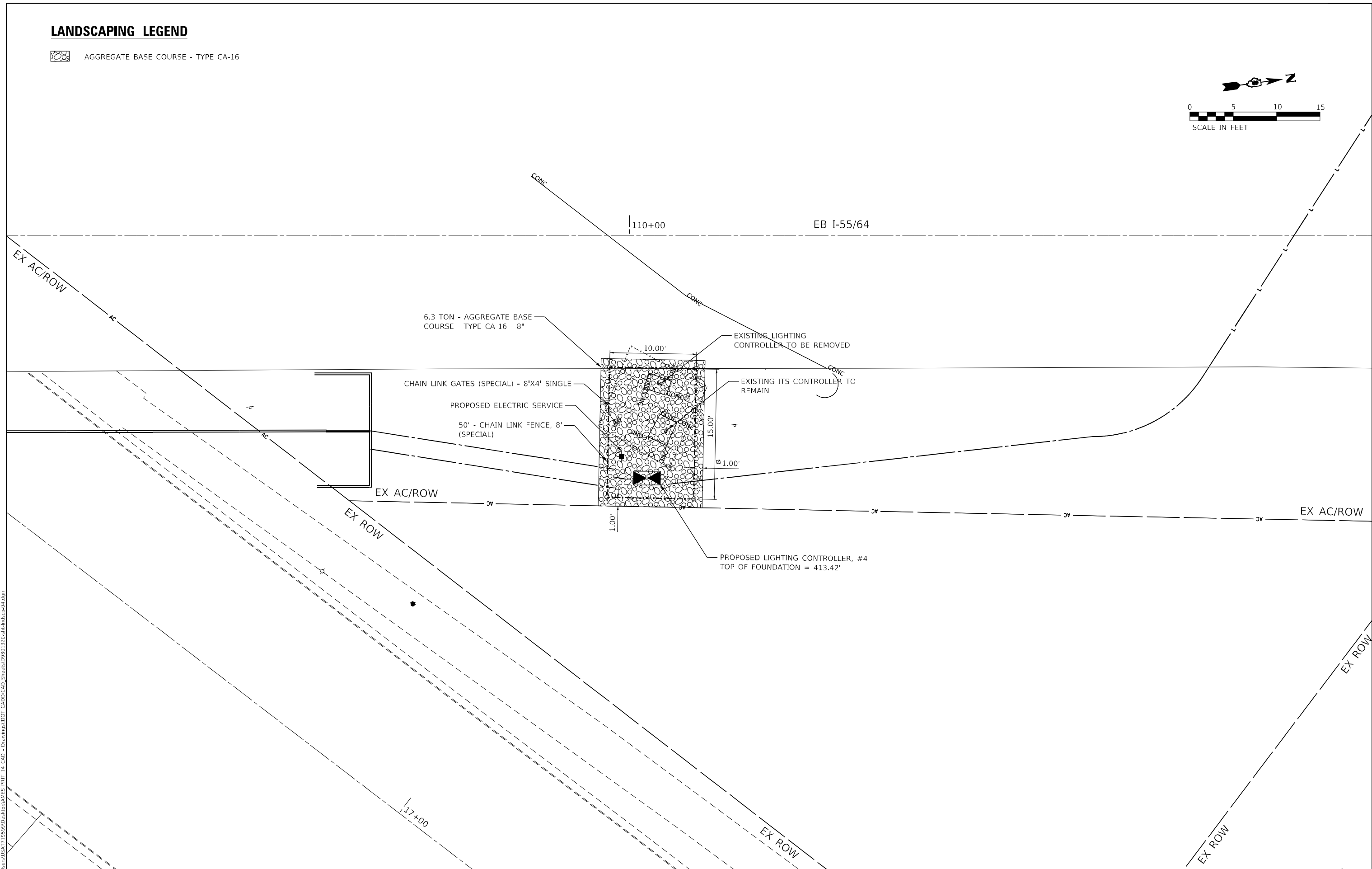
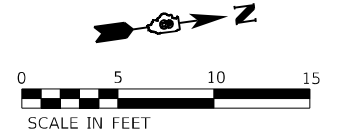
SCALE: 1"=5' SHEET 3 OF 5 SHEETS STA. 9+87 TO STA. 11+50

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	40
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76M86	

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**LANDSCAPING LEGEND**

 AGGREGATE BASE COURSE - TYPE CA-16



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
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

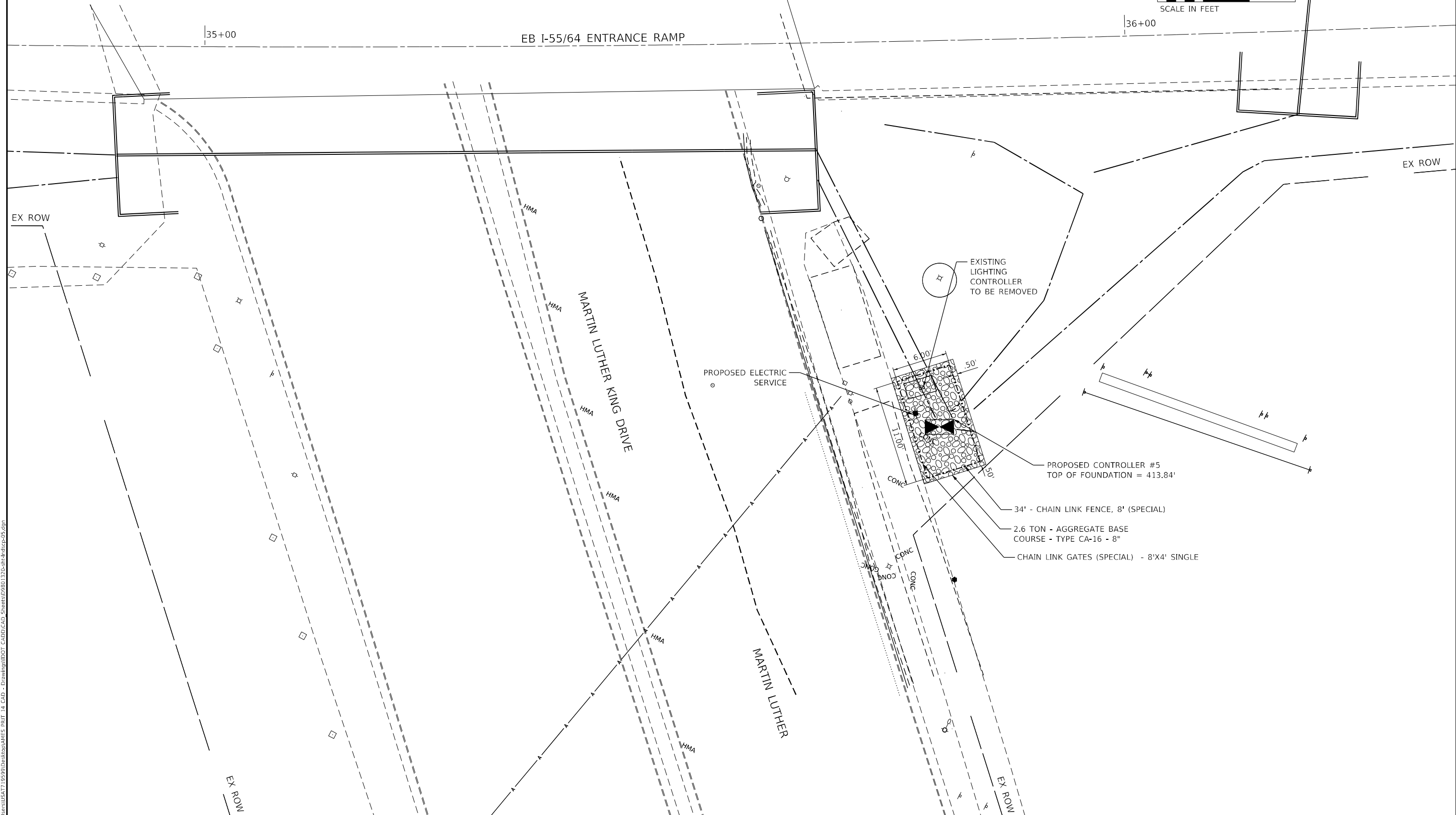
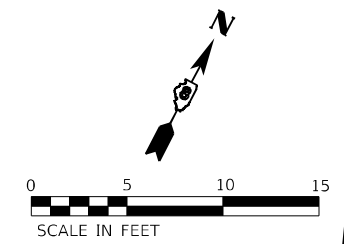
**PROPOSED CONTROLLER #4  
LANDSCAPING PLANS**

SCALE: 1"=5'    SHEET 4 OF 5 SHEETS    STA. 109+28 TO STA. 110+86

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	41
CONTRACT NO. 76M86			ILLINOIS FED. AID PROJECT	

**LANDSCAPING LEGEND**

 AGGREGATE BASE COURSE - TYPE CA-16



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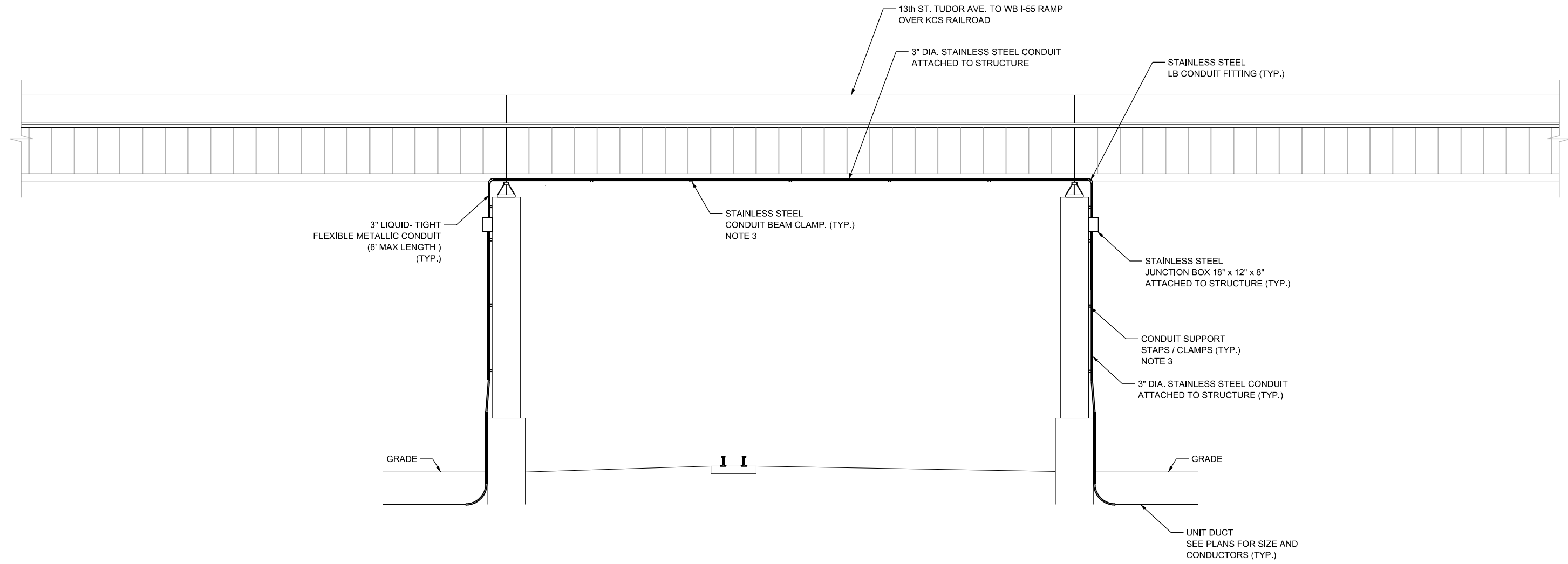
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PLOT DATE = 10/25/2023	DATE - 11-01-23	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED CONTROLLER #5  
LANDSCAPING PLANS**

SCALE: 1"=5' SHEET 5 OF 5 SHEETS STA. 34+88 TO STA. 36+36

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	42
CONTRACT NO. 76M86			ILLINOIS FED. AID PROJECT	



**NOTES:**

1. EXPANSION COUPLINGS SHALL BE INSTALLED AS REQUIRED AT ALL STRUCTURE EXPANSION JOINTS WITH A MINIMUM OF ONE BETWEEN JUNCTION BOXES.
2. JUNCTION BOXES SHALL BE MOUNTED SO THE MAXIMUM LENGTH OF REQUIRED LIQUID -TIGHT FLEXIBLE METALLIC CONDUIT NOT EXCEED THE 6' MAX LENGTH. ADDITIONAL STAINLESS STEEL CONDUIT ATTACHED TO STRUCTURE FROM THE JUNCTION BOXES MAY BE INSTALLED TO REDUCE THE DISTANCE TO 6' OR LESS.
3. SECURE THE CONDUIT WITH STAINLESS STEEL CONDUIT BEAM CLAMPS OR SUPPORT STRAPS AT 5' INTERNALS AND WITHIN 2' MAX. FROM THE JUNCTION BOXES.

**CONDUIT ATTACHED TO STRUCTURE  
OVER KANSAS CITY SOUTHERN RR (KCS)**

N.T.S.

MODEL NAME: D:\BENTON\PROJECTS\01.dwg

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

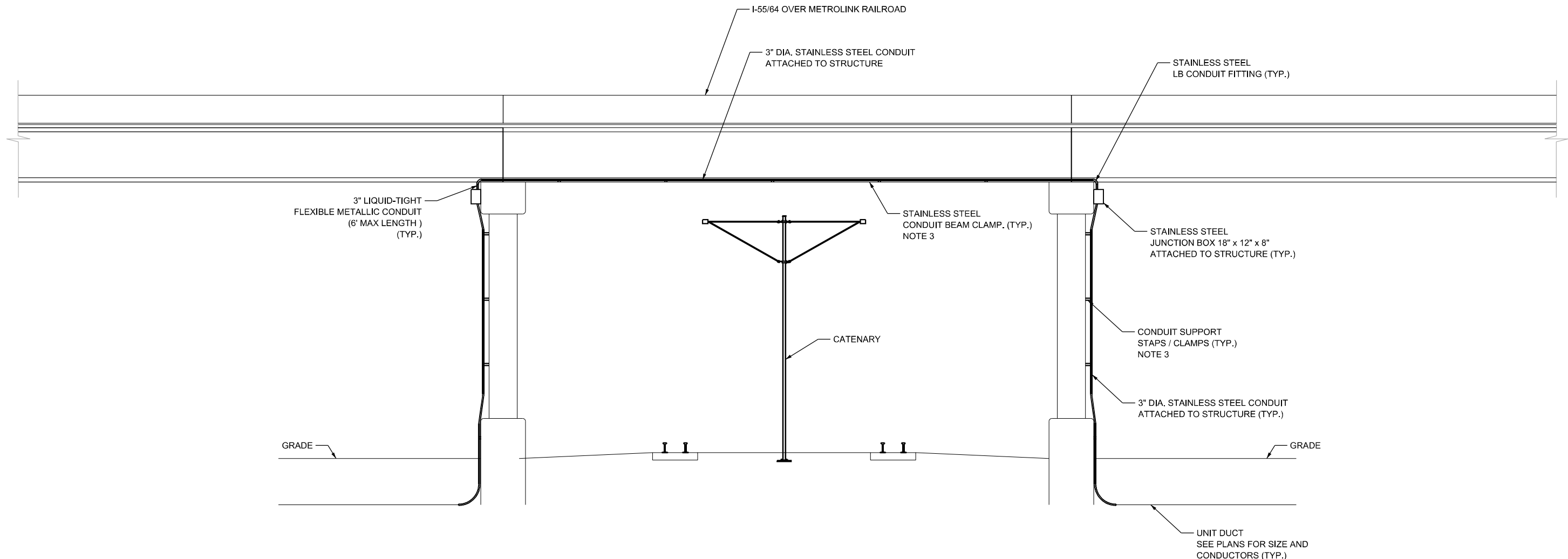
USER NAME = mdlrtche	DESIGNED - BL	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - MH	REVISED -
PLOT DATE = 1/25/2024	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONDUIT ATTACHED TO STRUCTURE  
OVER KANSAS CITY SOUTHERN RR (KCS)**

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	43
CONTRACT NO. 76M86				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. EXPANSION COUPLINGS SHALL BE INSTALLED AS REQUIRED AT ALL STRUCTURE EXPANSION JOINTS WITH A MINIMUM OF ONE BETWEEN JUNCTION BOXES.
2. JUNCTION BOXES SHALL BE MOUNTED SO THE MAXIMUM LENGTH OF REQUIRED LIQUID -TIGHT FLEXIBLE METALLIC CONDUIT NOT EXCEED THE 6' MAX LENGTH. ADDITIONAL STAINLESS STEEL CONDUIT ATTACHED TO STRUCTURE FROM THE JUNCTION BOXES MAY BE INSTALLED TO REDUCE THE DISTANCE TO 6' OR LESS.
3. SECURE THE CONDUIT WITH STAINLESS STEEL CONDUIT BEAM CLAMPS OR SUPPORT STRAPS AT 5' INTERNALS AND WITHIN 2' MAX. FROM THE JUNCTION BOXES.
4. THE CONTRACTOR SHALL OBTAIN A PERMIT FOR CONSTRUCTION OVER THE METROLINK RR PROPERTY. ALL SAFETY TRAINING, INSURANCE AND EASEMENT CONDITIONS MUST BE MET BEFORE THEY CAN PROCEED WITH THE PERMIT. PERMIT PROCESSING MAY TAKE 30 DAYS (PENDING TIER TRAINING AND RECEIPT OF PAYMENT). SEE RR SPECIAL PROVISIONS.

**CONDUIT ATTACHED TO STRUCTURE  
OVER METROLINK**  
N.T.S.

MODEL: I:\MODEL\NAME  
FILE: NAME.DWG 25/01/2024 09:02

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche	DESIGNED - BL	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - MH	REVISED -
PLOT DATE = 1/25/2024	DATE - 01-12-2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONDUIT ATTACHED TO STRUCTURE  
OVER TERMINAL RAILROAD ASSOCIATED OF ST. LOUIS (TRRA)**

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

F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-3, 4HL-4	ST. CLAIR	51	44
CONTRACT NO. 76M86			ILLINOIS FED. AID PROJECT	





Illinois Department of Transportation  
Division of Highways  
SCI Engineering, Inc.

### SOIL BORING LOG

Date 01/25/22

ROUTE FAI-55/I-64/I-70 DESCRIPTION PTB 197-040 I-55 High Mast Tower Replacements LOGGED BY SCI

SECTION LOCATION East St. Louis, SEC. 14, TWP. 2N, RNG. 10W  
Lat 38.616596 Long -90.175984

COUNTY St. Clair DRILLING METHOD CME550 w/CFA HAMMER TYPE Automatic

STRUCT. NO.	Station	DEPTH	BULGE	UCS	MOISTURE	Surface Water Elev.	Stream Bed Elev.	DEPTH	BULGE	UCS	MOISTURE
		(ft)	(/6")	(tsf)	(%)	N/A	N/A	(ft)	(/6")	(tsf)	(%)

Slag: Fill						CLAY: Gray, moist, soft A-7.					
		7		NC	14			WH	1	0.4	30
		5						WH	2	0.4	42
		4						WH	25		
SILTY CLAY: Brown with gray, moist, soft A-7.						CLAY: Gray, soft, moist A-7.					
		1		0.4	29			WH	1	NC	36
		2						WH	1	0.2	29
		1						WH	3		
SILTY CLAY: Gray with brown, moist, soft A-6.						SANDY LOAM: Gray, very moist, very loose A-3.					
		1		0.8	33			WH	1	NC	--
		2						WH	1	0.2	29
		1						WH	3		
SILTY LOAM: Brown, moist, soft A-4.						SAND: Brown, fine, saturated, loose (A-3)					
		2		1.0	27			WH	1	NC	--
		3						WH	2	NC	--
		10						WH	3		
SILTY CLAY: Gray with brown, moist, very soft A-6.						SANDY LOAM: Gray, moist, loose A-3.					
		1		<0.25	28			WH	1	0.4	32
		1						WH	1		
		1						WH	1	0.6	28
		15						WH	2	0.6	28
		1		0.5	30			WH	1	0.8	37
		1						WH	1	0.8	37
		1						WH	1		
CLAY: Brown, moist, very soft A-7.						SAND: Gray, saturated, loose A-3.					
		2		0.5	39			WH	3	NC	--
		2						WH	4	NC	--
		20						WH	5		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation  
Division of Highways  
SCI Engineering, Inc.

### SOIL BORING LOG

Date 12/20-21/2022

ROUTE FAI-55/I-64/I-70 DESCRIPTION PTB 197-040 I-55 High Mast Tower Replacements LOGGED BY SCI

SECTION LOCATION East St. Louis, SEC. 23, TWP. 2N, RNG. 10W  
Lat 38.615867 Long -90.175503

COUNTY St. Clair DRILLING METHOD CME550 w/CFA HAMMER TYPE Automatic

STRUCT. NO.	Station	DEPTH	BULGE	UCS	MOISTURE	Surface Water Elev.	Stream Bed Elev.	DEPTH	BULGE	UCS	MOISTURE
		(ft)	(/6")	(tsf)	(%)	N/A	N/A	(ft)	(/6")	(tsf)	(%)

FILL: Crushed Rock and Soil						SAND: Brown with clay layers, moist, medium dense A-3.					
		3		>4.5	10			2		NC	--
		20						3			
		50.2'						9			
CONCRETE SLAB						Becomes brown with gray					
		2		3.0	21			4		NC	--
		2						7			
		4						9			
SILTY CLAY LOAM: Gray, moist, medium stiff A-6.						SILTY CLAY LOAM: Gray, moist, very soft A-6.					
		2						6		NC	--
		4						8			
		1		0.2	29			17			
CLAY LOAM: Gray with brown, moist, soft A-7.						Becomes gray					
		2						3		NC	24
		2						3			
		10						4			
		1		0.4	32			30			
		1						4		NC	22
		1						10			
		15						17			
		1		0.6	28			4		NC	--
		1						10			
		1		0.8	37			15			
		1						4		NC	--
		1						6			
		1						7			
SAND: Brown with silt loam deposits, saturated, loose (A-3)						Becomes brown and gray					
		2		0.6	36			1		NC	8
		1						6			
		3						3			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation  
Division of Highways  
SCI Engineering, Inc.

### SOIL BORING LOG

Date 1/25-26/2022

ROUTE FAI-55/I-64/I-70 DESCRIPTION PTB 197-040 I-55 High Mast Tower Replacements LOGGED BY SCI

SECTION LOCATION East St. Louis, SEC. 23, TWP. 2N, RNG. 10W  
Lat 38.615846 Long -90.174075

COUNTY St. Clair DRILLING METHOD CME550 w/CFA HAMMER TYPE Automatic

STRUCT. NO.	Station	DEPTH	BULGE	UCS	MOISTURE	Surface Water Elev.	Stream Bed Elev.	DEPTH	BULGE	UCS	MOISTURE
		(ft)	(/6")	(tsf)	(%)	N/A	N/A	(ft)	(/6")	(tsf)	(%)

FILL: Brown, crushed rock, sandy loam and sandy clay, with slag						SAND: Brown, fine, moist, medium dense A-3. (continued) Becomes loose					
		20		NC	10			3		NC	--
		47						2			
		6						4			
FILL: Gray, clay, moist, stiff A-7.						Becomes saturated					
		3		1.9	20			3		NC	--
		6						5			
		9						6			
		5						25			
GANDY LOAM: Brown A-3.						Becomes gray, loose, trace organics					
		2		NC	26			3		NC	--
		2						2			
		2						3			
SAND: Brown, fine, moist, medium dense A-3.						Becomes medium dense					
		3		NC	24			4		NC	--
		4						4			
		7						7			
		5						5			
		6						8			
		8						3		NC	--
		4						5			
		4						11			
		1						3		NC	--
		1						5			
		15						7			
		1						4			
		1						6		NC	--
		1						7			
CLAY: Brown, moist, very soft A-7.						Becomes brown and gray					
		2		0.5	39			1		NC	8
		2						6			
		20						6			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

MODEL: I:\MODEL\NAME: FILE: NAME: 02125\55High\_ soil\_boring.dgn

AMES Engineering, Inc.  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

USER NAME = mdlctche
PLOT SCALE = 0.1538' / in.
PLOT DATE = 1/25/2024

DESIGNED - BL
DRAWN - MD
CHECKED - MH
DATE - 01-12-2024

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: NONE
SHEET 1 OF 7 SHEETS
STA. TO STA.

SOIL BORINGS  
FAI 70 (I-55 /7064)

F.A.I. RTE. 70
SECTION 82-3, 4HL-4
COUNTY ST. CLAIR
TOTAL SHEETS 51
SHEET NO. 45
CONTRACT NO. 76M86
ILLINOIS FED. AID PROJECT

ROUTE FAI-55/I-64/I-70 DESCRIPTION Replacements LOGGED BY Gonzalez (NRK)

SECTION LOCATION East St. Louis, SEC. 14, TWP. 2N, RNG. 10W, 3<sup>rd</sup> PM  
 Latitude 38.6181376, Longitude -90.1661183

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto 140 lb HE 87

STRUCT. NO.	DEPTH	BL	UCS	M	Surface Water Elev.	DEPTH	BL	UCS	M
Station	ft	(/6")	(tsf)	(%)	ft	(/6")	(tsf)	(%)	ft
BORING NO. 3-A3									
Ground Surface Elev.	422.5								
TOPSOIL - 2"									
Stiff, Brown, Dry to Moist, SILTY CLAY LOAM	5	1.5	19						
	6								
	2	0.6	25						
	4								
	3								
	6	1.4	21						
	9								
	5								
	6	2.2	20						
	12								
Stiff, Brown, Dry to Moist, SILTY LOAM	3								
	4	0.4	20						
	5								
	2								
	3	0.2	29						
	2								
Medium Stiff, Brown, Moist, CLAY	1								
	2	1.8	34						
	3								
	2								
	3	1.3	37						
	6								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, M-Modified SPT)  
 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)

ROUTE FAI-55/I-64/I-70 DESCRIPTION Replacements LOGGED BY Gonzalez (NRK)

SECTION LOCATION East St. Louis, SEC. 14, TWP. 2N, RNG. 10W, 3<sup>rd</sup> PM  
 Latitude 38.626088, Longitude -90.164303

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto 140 lb HE 87

STRUCT. NO.	DEPTH	BL	UCS	M	Surface Water Elev.	DEPTH	BL	UCS	M
Station	ft	(/6")	(tsf)	(%)	ft	(/6")	(tsf)	(%)	ft
BORING NO. 4-A1									
Ground Surface Elev.	414.2								
Cinders, Brick, Silt, Sand; (Fill)	4								
	5								
	5								
	2								
	2	<0.2	49						
	2								
Soft, Brown and Gray, Wet, SILTY LOAM; (Fill)	5								
	2								
	1	0.4	35						
	2								
Soft to Medium Stiff, Brown, Moist, CLAY, High Plastic	1								
	2								
	1								
Soft, Brown, Moist to Wet, SILT	2	1.0	36						
Medium Stiff, Brown, Moist, CLAY, High Plastic	2								
	2								
Loose, Brown, Moist, SANDY LOAM	2								
	2								
	2								
	3								
	3	0.8	24						
	5								
Medium Stiff, Brown, Dry, SILTY CLAY LOAM	9								
	11								
	4								
	7								
	9								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, M-Modified SPT)  
 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)

ROUTE FAI-55/I-64/I-70 DESCRIPTION Replacements LOGGED BY Gonzalez (NRK)

SECTION LOCATION East St. Louis, SEC. 14, TWP. 2N, RNG. 10W, 3<sup>rd</sup> PM  
 Latitude 38.6224552, Longitude -90.1648362

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto 140 lb HE 87

STRUCT. NO.	DEPTH	BL	UCS	M	Surface Water Elev.	DEPTH	BL	UCS	M
Station	ft	(/6")	(tsf)	(%)	ft	(/6")	(tsf)	(%)	ft
BORING NO. 4-C1									
Ground Surface Elev.	429.0								
ASPHALT - 11"	7								
	9								
Medium Stiff to Stiff, Gray, Dry to Moist, CLAY; trace cinders, gravel, brick, sand; (Fill)	12	>4.5	15						
	9								
	4								
	5	2.7	21						
	5								
	2								
	2	1.5	19						
	3								
	4								
	5	2.0	21						
	5								
	2								
	3	1.0	24						
	2								
	3	0.7	19						
	5								
	7	4.0	19						
	8								
	7								
	14	2.6	17						
	15								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, M-Modified SPT)  
 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)

MODEL: I:\MODEL\NAME  
 FILE NAME: 021215\High Soil Boring.dgn

ROUTE FAI-55/I-64/I-70 DESCRIPTION Replacements PTB 201-040 I-55 High Mast Light Tower Replacements LOGGED BY Gonzalez (NRK) Date 11/29/22

SECTION LOCATION East St. Louis, SEC. 14, TWP. 2N, RNG. 10W, 3<sup>rd</sup> PM. Latitude 38.6213404, Longitude -90.1647672  
 COUNTY St. Clair DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto 140 lb HE 87

STRUCT. NO. Station	DEPTH ft	BLOW COUNT	UCS tsf	M-O SPT Blows	Surface Water Elev. ft	Stream Bed Elev. ft	DEPTH ft	BLOW COUNT	UCS tsf	M-O SPT Blows
TOPSOIL - 2"	413.0									
Soft to Medium Stiff, Brown and Gray, Moist, CLAY; Trace brick, cinders; (Fill)	5	1.8	30				3			
	4						10			
	8						10			
	2	0.3	57							
	1									
	2	1.3	37							
	3									
Medium Stiff, Brown, Moist, CLAY	405.2									
	2	0.6	38							
	3									
	10									
Soft, Brown, Wet, SILTY LOAM	402.7									
Soft, Brown, Moist, CLAY	401.7	1	0.3	40						
	1									
	3	0.2	32							
	4									
	15									
Loose, Brown, Moist, SANDY LOAM	399.2									
	1									
	2									
	5									
	8									
	11									
	6									
	8									
	7									
	20									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, M-Modified SPT)  
 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)

ROUTE FAI-55/I-64/I-70 DESCRIPTION Replacements PTB 201-040 I-55 High Mast Light Tower Replacements LOGGED BY Gonzalez (NRK) Date 01/05/23

SECTION LOCATION East St. Louis, SEC. 13, TWP. 2N, RNG. 10W, 3<sup>rd</sup> PM. Latitude 38.6309711, Longitude -90.1526946  
 COUNTY St. Clair DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto 140 lb HE 87

STRUCT. NO. Station	DEPTH ft	BLOW COUNT	UCS tsf	M-O SPT Blows	Surface Water Elev. ft	Stream Bed Elev. ft	DEPTH ft	BLOW COUNT	UCS tsf	M-O SPT Blows
Gravel, cinders; (Fill)										
	413.0	6	1.7	17						
Stiff, Brown, Dry, CLAY; (Fill)	411.7	9								
	4	2.3	17							
	4									
	5	P								
	5									
	2									
	3									
	3									
	1	0.6	21							
	2									
	3									
	10									
	1									
	3	0.0	22							
	3									
	2									
	5	0.3	23							
	7									
	15									
Medium Dense, Brown, Dry, SAND	400.4									
	3									
	8									
	11									
	6									
	8									
	10									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, M-Modified SPT)  
 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)

ROUTE FAI-55/I-64/I-70 DESCRIPTION Replacements PTB 201-040 I-55 High Mast Light Tower Replacements LOGGED BY Gonzalez (NRK) Date 11/17/22

SECTION LOCATION East St. Louis, SEC. 13, TWP. 2N, RNG. 10W, 3<sup>rd</sup> PM. Latitude 38.6293502, Longitude -90.1557401  
 COUNTY St. Clair DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto 140 lb HE 87

STRUCT. NO. Station	DEPTH ft	BLOW COUNT	UCS tsf	M-O SPT Blows	Surface Water Elev. ft	Stream Bed Elev. ft	DEPTH ft	BLOW COUNT	UCS tsf	M-O SPT Blows
Stiff, Brown, Dry, SILT; Some brick, cinders; (Fill)										
	413.0	4	1.5	22						
	4									
	7									
	6									
	5	1.0	25							
	5									
	1									
	2	0.5	22							
	3									
	3									
	7									
	9									
	1									
	2	0.6	35							
	3									
	10									
	1									
	2	1.0	48							
	2									
	3									
	1	0.3	35							
	2									
	15									
	1									
	2	0.3	34							
	1									
	2									
	1	0.4	37							
	2									
	20									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, M-Modified SPT)  
 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)

MODEL: I:\MODEL\NAME  
 FILE NAME: 0212555\light\_soil\_boring.dgn







