

01-21-2022 LETTING ITEM 125

FOR INDEX OF SHEETS, SEE SHEET NO. 2

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2020-218-L	LAKE	63	1
		ILLINOIS	CONTRACT NO. 62M92	

D-91-011-21

TRAFFIC DATA

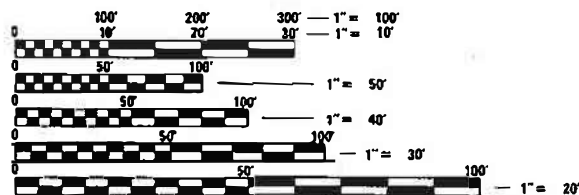
	ADT	POSTED SPEED (MPH)
IL 120 WEST OF O'PLAINE RD	32,400	55
IL 120 EAST OF O'PLAINE RD	38,800	50
IL 120 WEST OF US 41	20,300	50
IL 120 EAST OF US 41	23,100	45
O'PLAINE RD SOUTH OF IL 120	10,300	45
O'PLAINE RD NORTH OF IL 120	9,800	40
GREENLEAF AVE	13,600	40
IL 43 SOUTH OF IL 120	21,600	45
IL 43 NORTH OF IL 120	19,200	55
US 41 SOUTH OF IL 120	33,500	40
US 41 NORTH OF IL 120	53,700	40

HIGHWAY FUNCTIONAL CLASSIFICATION

IL 120 (BELVIDERE RD)	PRINCIPAL ARTERIAL
O'PLAINE RD	MINOR ARTERIAL
GREENLEAF AVE	MAJOR COLLECTOR
IL 43 (WAUKEGAN RD)	MINOR ARTERIAL
US 41	PRINCIPAL ARTERIAL

PROJECT IS LOCATED IN:

CITY OF WAUKEGAN



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

MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL
MAINTENANCE CONTRACTOR LOCATES IDOT ELECTRICAL
EQUIPMENT AND UNDERGROUND CABLES
773-287-7672

PROJECT MANAGER: DARYLE DREW (847) 705-4424
PROJECT ENGINEER: TONY GODINHO (847) 705-4442

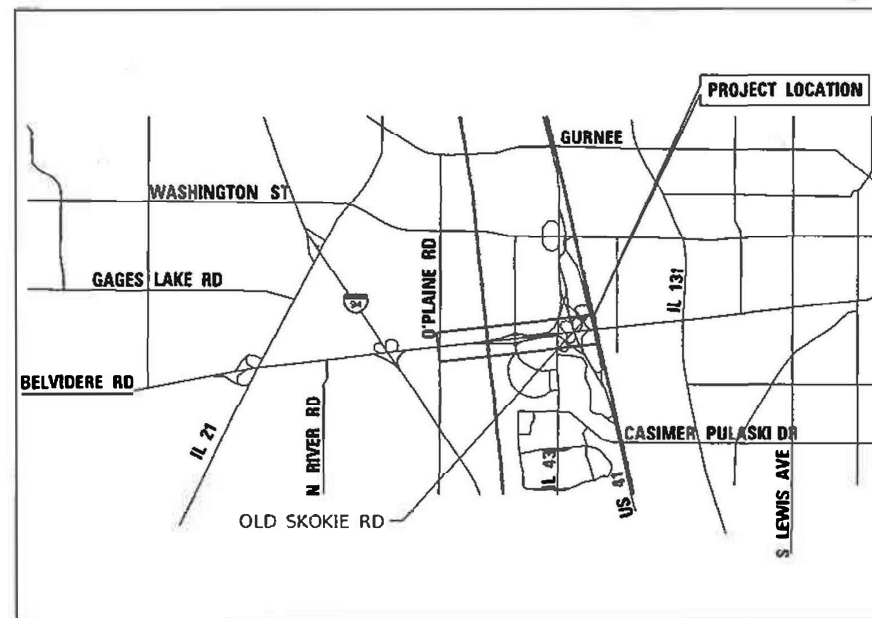
CONTRACT NO. 62M92

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PROPOSED
HIGHWAY PLANS**

IL 120 (BELVIDERE ROAD)
WEST OF O'PLAINE ROAD TO US 41
ROUTE FAP 333 (IL 120)
SECTION 2020-218-L
PROJECT NHPP-DK7T(237)
HIGH MAST LIGHTING REPLACEMENT
LAKE COUNTY

C-91-010-21



R. Ocampo
10/21/2021
RACIEL OCAMPO, P.E. DATE
LICENSE NO.: 062-070793
EXPIRES: 11-30-2021
SHEETS:



R.D. Patel
10/21/2021
RASHESHKUMAR D. PATEL, P.E. DATE
LICENSE NO.: 062-064617
EXPIRES: 11-30-2021
SHEETS:



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *Oct 22 20 21*
Open Review add
REGIONAL ENGINEER

December 10 20 21
ENGINEER OF DESIGN AND ENVIRONMENT

December 10 20 21
Stephen M. ...
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 2

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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8	C-03	PROPOSED CIVIL PLAN IL RTE 120 (BELVIDERE ROAD) AT O'PLAINE ROAD
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IDOT DISTRICT ONE STANDARD DETAILS

STANDARD NO.	TITLE
BE-200	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL)
BE-206	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION
BE-220	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT
BE-305	LIGHT POLE FOUNDATION, METAL
BE-310	LIGHT POLE FOUNDATION OFFSET, 40'(12.192m) to 47 1/2'(14.478m) M.H., 15" (381mm) BOLT CIRCLE
BE-400	ALUMINUM LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS SHEET A
BE-901	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS
BE-903	PIER/ABUTMENT MOUNTED LED UNDERPASS LUMINAIRE INSTALLATION DETAILS
TC-08	ENTRANCE AND EXIT RAMP CLOSURE DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROAD, INTERSECTIONS AND DRIVEWAYS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC
TC-17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
TC-22	ARTERIAL INFORMATION SIGN

GENERAL NOTES

- SEVENTY-TWO (72) HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL JULIE AT 1-800-892-0123 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO PERFORM WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL COORDINATE WORK WITH UTILITIES IN ADVANCE OF WORKING IN THE VICINITY OF THEIR FACILITIES, AND ALLOW SUFFICIENT TIME FOR THEM TO PREFORM ADJUSTMENTS TO THEIR FACILITIES IN ACCORDANCE WITH THE CONTRACTOR'S SCHEDULE. COORDINATION EFFORTS SHALL BE INCLUDED IN THE COST OF THE CONTRACT BID PRICE.
- THE CONTRACTOR MUST CALL THE IDOT ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE IDOT FACILITY CABLES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- BARRICADES: TYPE I, TYPE II, AND TYPE III BARRICADES SHALL BE WEIGHTED IN A MANNER APPROVED BY THE MANUFACTURER SO THEY ARE NOT MOVED BY TRAFFIC.
- THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS, IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION 11.0.1 AND 1 OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

MAINTENANCE OF TRAFFIC GENERAL NOTES

- THE CONTRACTOR'S VEHICLES MUST ALWAYS MOVE WITH AND NOT AGAINST OR ACROSS THE FLOW OF TRAFFIC, AND THEY MUST ENTER OR LEAVE WORK AREAS IN A MANNER WHICH IS NOT HAZARDOUS TO TRAFFIC AND WILL NOT INTERFERE WITH NORMAL TRAFFIC. THE CONTRACTOR'S VEHICLES MUST NOT PARK OR STOP EXCEPT WITHIN DESIGNATED WORK AREAS. PERSONAL VEHICLES ARE NOT PERMITTED TO PARK WITHIN THE RIGHT-OF-WAY EXCEPT IN AREAS DESIGNATED BY THE ENGINEER.
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE FIELD FIT TO CONDITIONS AS DIRECTED BY THE ENGINEER.
- EXISTING TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER; ANY SIGNS OR DEVICES LEFT IN PLACE ARE TO BE PROTECTED FROM DAMAGE AND MAINTAINED.
- BORING PITS ARE TO BE PLACED AT LEAST 15' FROM EDGE OF ANY PAVEMENT OPEN TO TRAFFIC UNLESS LOCATED BEHIND TEMPORARY CONCRETE BARRIER, GUARDRAIL OR OTHER MAN-MADE OR NATURAL BARRIERS. TEMPORARY BARRIERS ERECTED FOR PROTECTION BY THE CONTRACTOR SHALL MEET THE APPROVAL OF THE ENGINEER.
- IF BORING PIT IS LOCATED WITHIN THE CLEAR ZONE BUT OUTSIDE OF CONSTRUCTION CLEAR ZONE, TRAFFIC CONTROL AND PROTECTION MUST REMAIN IN PLACE ADJACENT TO BORING PIT UNTIL EXCAVATED AREA IS FILLED.
- TOWER ASSEMBLY LAYDOWN AREAS MUST BE APPROVED BY THE ENGINEER PRIOR TO USE. ADDITIONAL TRAFFIC CONTROL WILL NOT BE PROVIDED SOLELY FOR TOWER LAYDOWN AREAS.
- CONTRACTOR SHALL ENSURE THAT ALL DROP-OFFS ARE LESS THAN 12 INCHES WITHIN 8 FEET OF THE EDGE OF THE NEAREST OPEN TRAFFIC LANE. IF DROP-OFFS ARE 12 INCHES OR GREATER THE TRENCH MUST BE BACKFILLED.

HIGHWAY STANDARDS

STANDARD NO.	TITLE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006-00	DECIMAL OF AN INCH AND OF A FOOT
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS 45 MPH TO 55 MPH
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
812001-01	RACEWAYS EMBEDDED IN STRUCTURE

GEN-01

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USER NAME = gshowers
PLOT SCALE = 2" / in.
PLOT DATE = 10/22/2021

DESIGNED - HP	REVISED -
DRAWN - HP	REVISED -
CHECKED - RP/MG	REVISED -
DATE - 10/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	2
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE	
				NHPP 80% FED 20% STATE 0005	NHPP 80% FED 20% STATE 0021
				ROADWAY LAKE	LIGHTING LAKE
20101000	TEMPORARY FENCE	FOOT	13,020	13,020	-
20400800	FURNISHED EXCAVATION	CU YD	22	22	
25000210	SEEDING, CLASS 2A	ACRE	1.25	1.25	-
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	112	112	-
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	112	112	-
25100630	EROSION CONTROL BLANKET	SQ YD	590	590	-
28000400	PERIMETER EROSION BARRIER	FOOT	8,720	8,720	-
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	5,867	5,867	-
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4	-
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1	-
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1	-
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	160	160	-
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7	-
67100100	MOBILIZATION	L SUM	1	1	-
80400100	ELECTRIC SERVICE INSTALLATION	EACH	2	-	2
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	-	1
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,812		1,812
81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA. PVC COATED GALVANIZED STEEL	FOOT	1,105	-	1,105
81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	530		530
81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	120	-	120

* SPECIALTY ITEM

S00-01

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PLOT DATE = 10/22/2021	DATE - 07/28/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 3
CONTRACT NO. 62M92			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE	
				NHPP 80% FED 20% STATE 0005	NHPP 80% FED 20% STATE 0021
				ROADWAY LAKE	LIGHTING LAKE
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	8	-	8
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	14	-	14
81300800	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 6"	EACH	8	-	8
81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	4	-	4
81603081	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	27,591	-	27,591
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	4067	-	4067
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	550	-	550
81702220	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 350MCM	FOOT	180	-	180
81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	550	-	550
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	141	-	141
82110022	LUMINAIRE, LED, UNDERPASS, WALLMOUNT, OUTPUT DESIGNATION E	EACH	14	-	14
82110027	LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E	EACH	6	-	6
82500420	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL)	EACH	1	-	1
83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	137	-	137
83050910	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 2-15 FT. MAST ARMS	EACH	2	-	2
83600365	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	139	-	139
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	139	-	139
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	16	-	16

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	4
			CONTRACT NO. 62M92	
ILLINOIS FED. AID PROJECT				

SOQ-02

REV-SEP

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE	
				NHPP 80% FED 20% STATE 0005	NHPP 80% FED 20% STATE 0021
				ROADWAY LAKE	LIGHTING LAKE
84200804	REMOVAL OF POLE FOUNDATION	EACH	16	-	16
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	4	-	4
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	4	-	4
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	4	-	4
X1400190	REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	48	-	48
X1400341	REMOVAL OF LUMINARIE, SALVAGE	EACH	18	-	18
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	-
X8251388	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL), RADIO SCADA	EACH	1	-	1
X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	9	-	9
X8420111	REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	8	-	8
X8420500	REMOVAL OF LIGHT TOWER, SALVAGE	EACH	2	-	2
X8420502	REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	10	-	10
X8420510	REMOVAL OF TOWER FOUNDATION	EACH	12	-	12
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	141	-	141
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	28	-	28
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	-
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	360	360	-
Ø Z0076600	TRAINEES	HOURS	1000	1000	-
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	1000	1000	-

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	5
			CONTRACT NO. 62M92	
ILLINOIS FED. AID PROJECT				

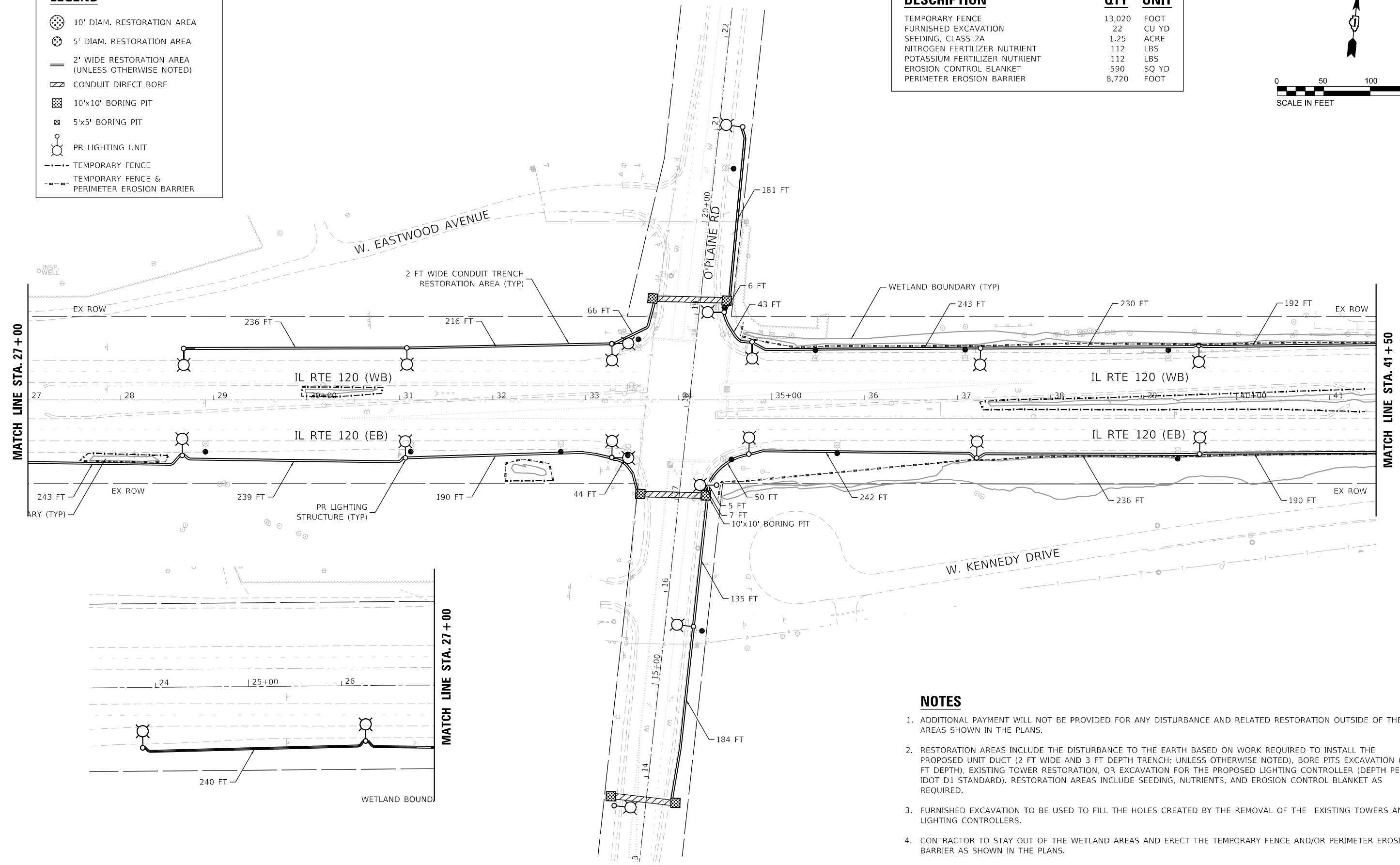
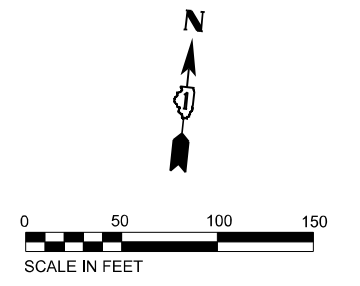
Ø0042
S00-03

LEGEND

- 10' DIAM. RESTORATION AREA
- 5' DIAM. RESTORATION AREA
- 2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)
- CONDUIT DIRECT BORE
- 10'x10' BORING PIT
- 5'x5' BORING PIT
- PR LIGHTING UNIT
- TEMPORARY FENCE
- TEMPORARY FENCE & PERIMETER EROSION BARRIER

DESCRIPTION

DESCRIPTION	QTY	UNIT
TEMPORARY FENCE	13,020	FOOT
FURNISHED EXCAVATION	22	CU YD
SEEDING, CLASS 2A	1.25	ACRE
NITROGEN FERTILIZER NUTRIENT	112	LBS
POTASSIUM FERTILIZER NUTRIENT	112	LBS
EROSION CONTROL BLANKET	590	SQ YD
PERIMETER EROSION BARRIER	8,720	FOOT



NOTES

- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE AND RELATED RESTORATION OUTSIDE OF THE AREAS SHOWN IN THE PLANS.
- RESTORATION AREAS INCLUDE THE DISTURBANCE TO THE EARTH BASED ON WORK REQUIRED TO INSTALL THE PROPOSED UNIT DUCT (2 FT WIDE AND 3 FT DEPTH TRENCH; UNLESS OTHERWISE NOTED), BORE PITS EXCAVATION (3 FT DEPTH), EXISTING TOWER RESTORATION, OR EXCAVATION FOR THE PROPOSED LIGHTING CONTROLLER (DEPTH PER IDOT D1 STANDARD). RESTORATION AREAS INCLUDE SEEDING, NUTRIENTS, AND EROSION CONTROL BLANKET AS REQUIRED.
- FURNISHED EXCAVATION TO BE USED TO FILL THE HOLES CREATED BY THE REMOVAL OF THE EXISTING TOWERS AND LIGHTING CONTROLLERS.
- CONTRACTOR TO STAY OUT OF THE WETLAND AREAS AND ERECT THE TEMPORARY FENCE AND/OR PERIMETER EROSION BARRIER AS SHOWN IN THE PLANS.

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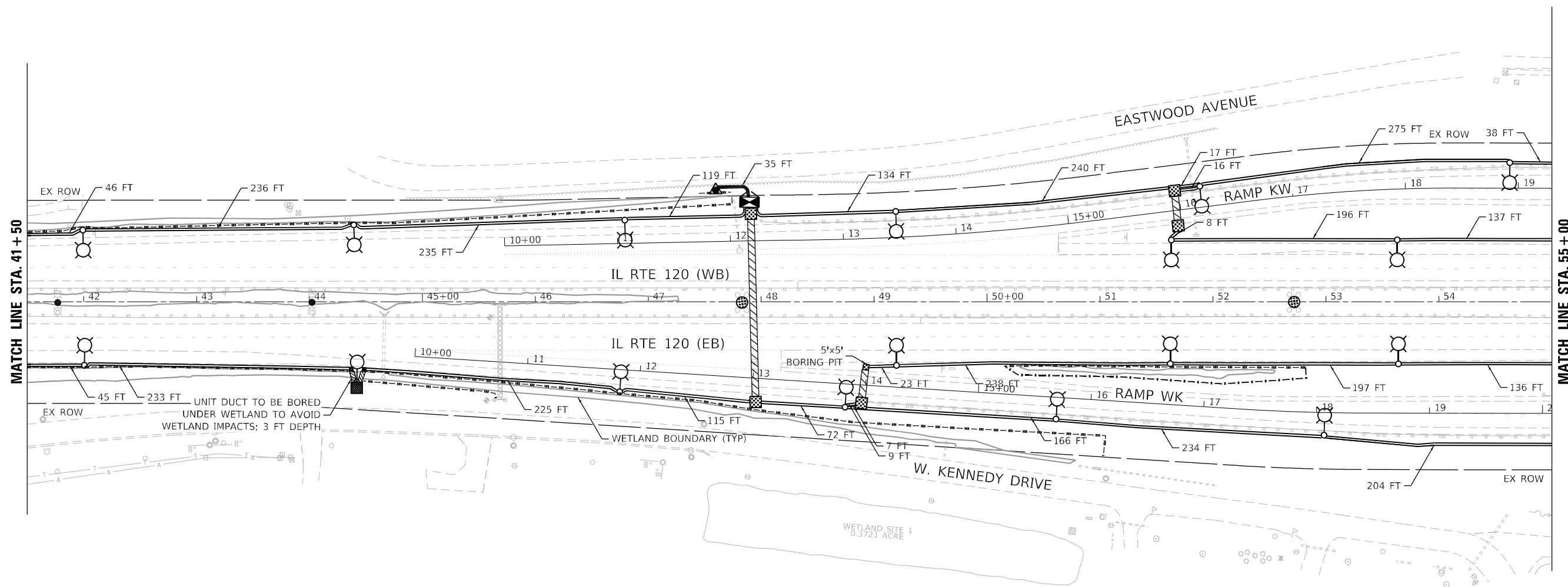
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED CIVIL PLAN IL RTE 120 (BELVIDERE ROAD)
AT O'PLAINE ROAD**

SCALE: 1"=50' SHEET 1 OF 5 SHEETS STA. - TO STA. 41+50

F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 6
			CONTRACT NO. 62M92	
		ILLINOIS FED. AID PROJECT		

C-01



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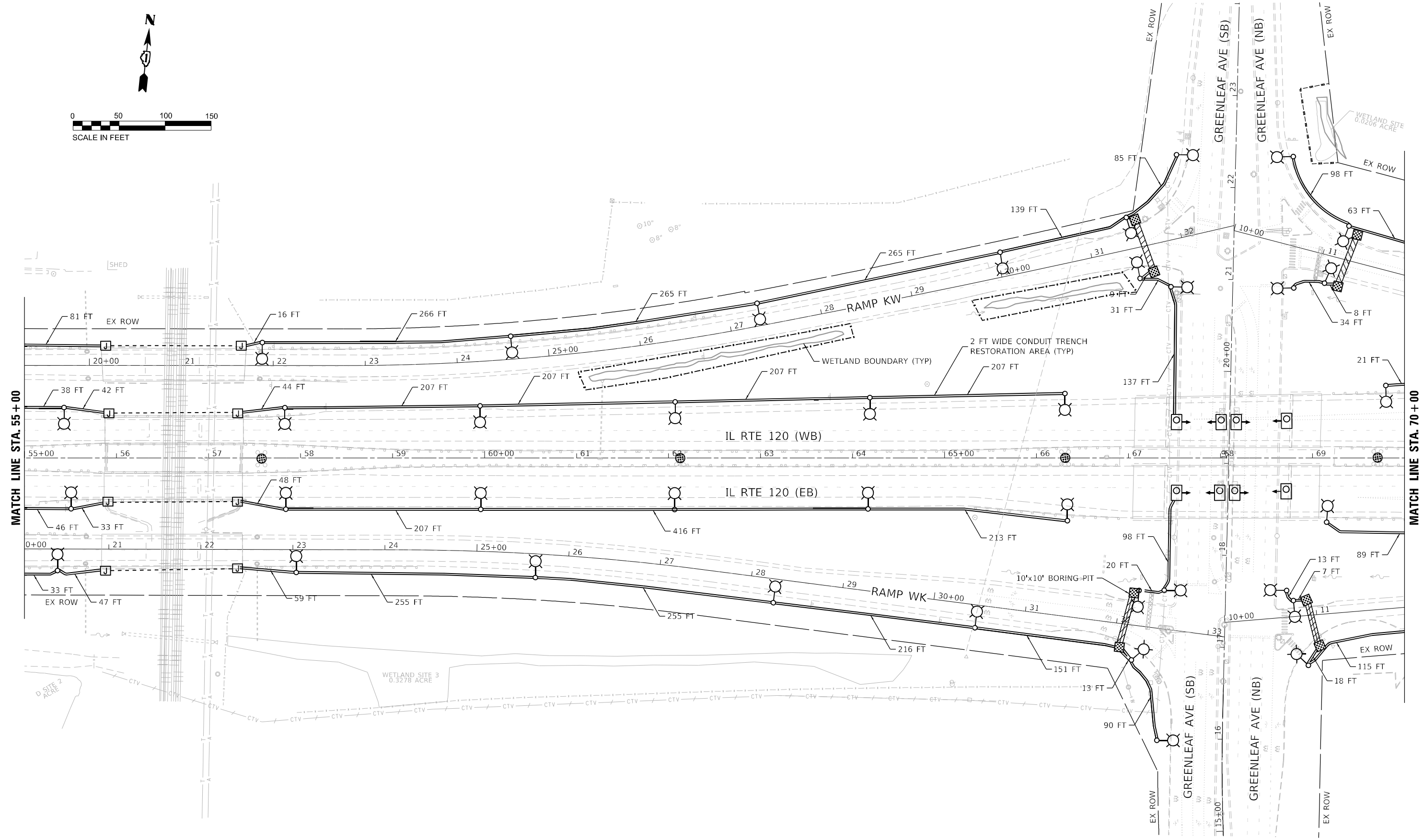
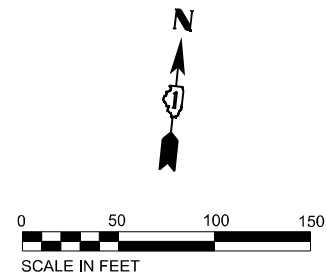
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED CIVIL PLAN IL RTE 120 (BELVIDERE ROAD)
 AT O'PLAINE ROAD**

SCALE: 1"=50' SHEET 2 OF 5 SHEETS STA. 41+50 TO STA. 55+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	7
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				

C-02



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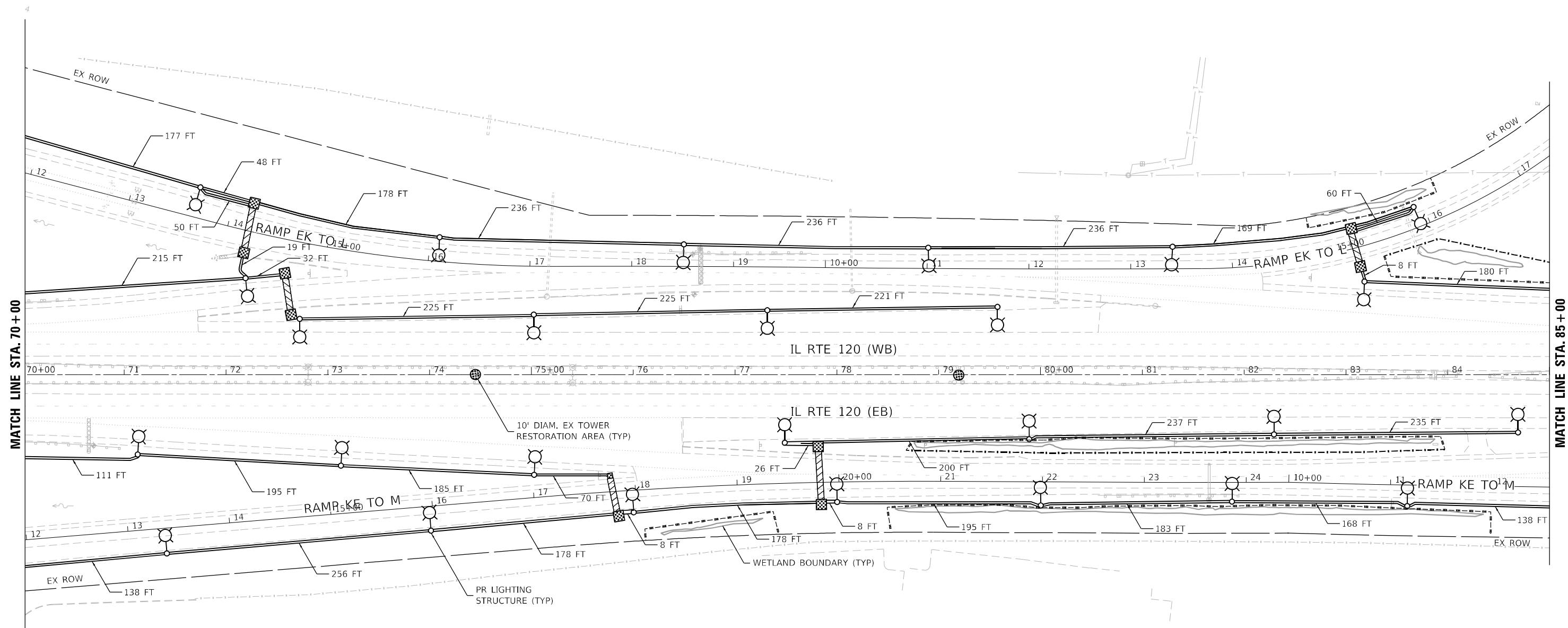


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PLOT DATE = 10/22/2021	CHECKED - RO	REVISED -
	DATE - 7/28/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED CIVIL PLAN IL RTE 120 (BELVIDERE ROAD)
AT O'PLAINE ROAD**
 SCALE: 1"=50' SHEET 3 OF 5 SHEETS STA. 55+00 TO STA. 70+00

F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 8
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				



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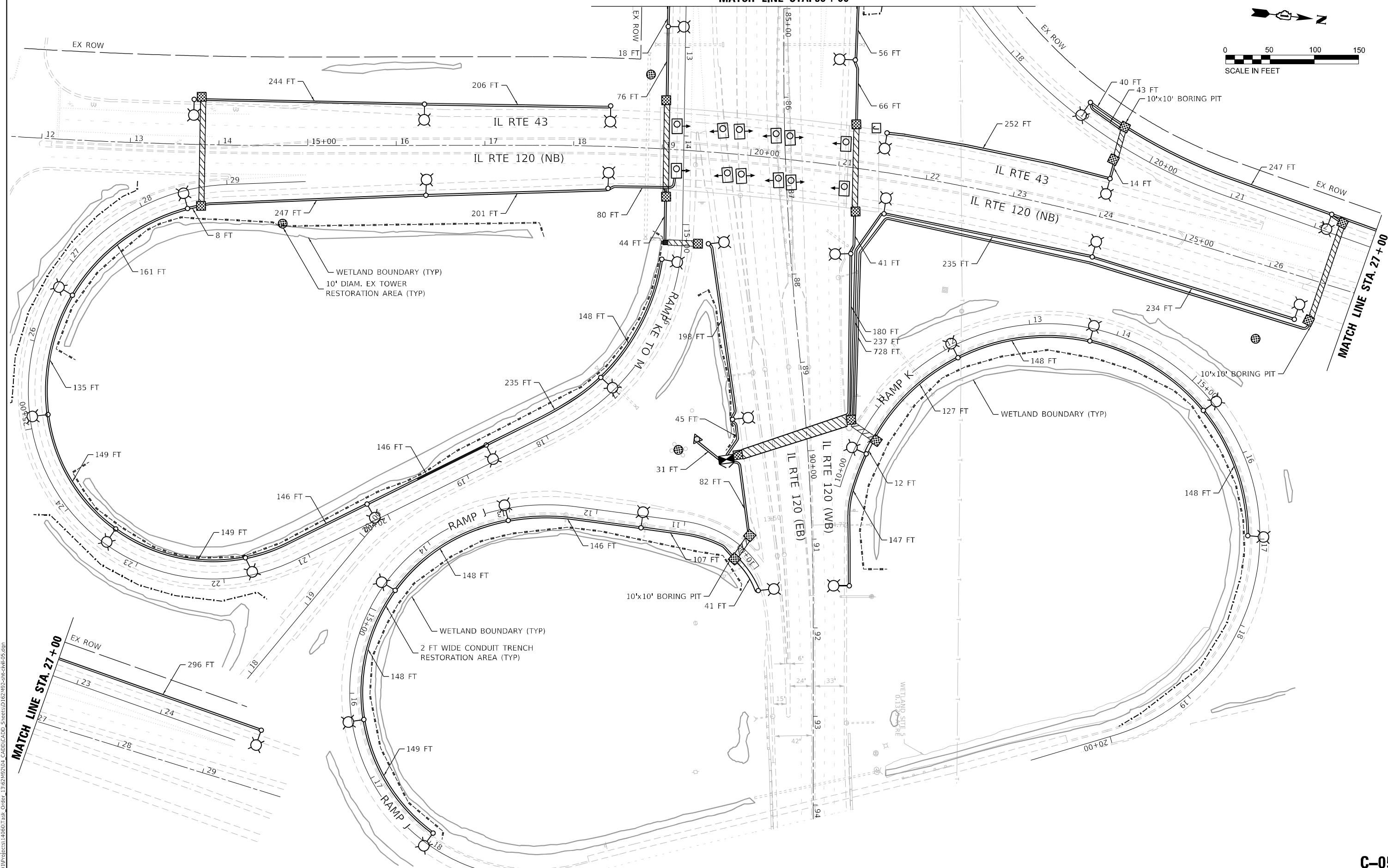
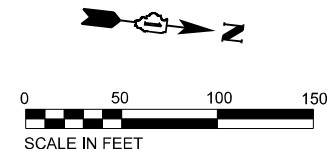
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CIVIL PLAN IL RTE 120 (BELVIDERE ROAD)
AT O'PLAINE ROAD
 SCALE: 1"=50' SHEET 4 OF 5 SHEETS STA. 70+00 TO STA. 85+00

F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 9
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				

C-04

MATCH LINE STA. 85 + 00



MATCH LINE STA. 27 + 00

MATCH LINE STA. 27 + 00

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 CHECKED - RO
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REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED CIVIL PLAN IL RTE 120 (BELVIDERE ROAD)
 AT O'PLAINE ROAD

SCALE: 1"=50' SHEET 5 OF 5 SHEETS STA. 85+00 TO STA. -

F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 10
			CONTRACT NO. 62M92	
ILLINOIS FED. AID PROJECT				

C-05

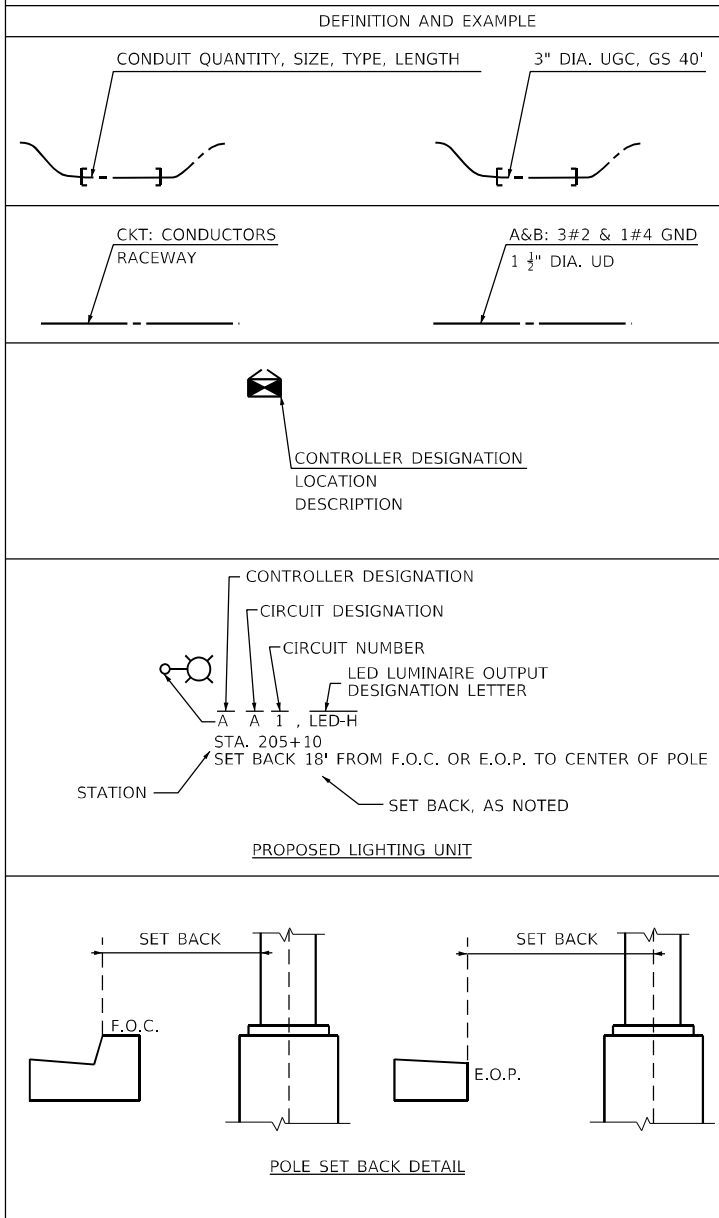
LIGHTING AND ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	EXISTING HIGH MAST LIGHTING FOUNDATION AND TOWER TO BE REMOVED, NO SALVAGE. LUMINAIRES REMOVED, SALVAGED (4VBDE2 & 4VBDE3 TO BE SALVAGED AND TRANSPORTED TO EMC)
	EXISTING HIGH MAST LIGHTING FOUNDATION AND TOWER TO REMAIN
	EXISTING LIGHTING FOUNDATION, POLE, MAST ARM, T-BASE, AND LUMINAIRES REMOVED SHALL BE SALVAGED.
	PROPOSED IDOT LIGHTING UNIT MOUNTED ON BREAKAWAY DEVICE METAL FOUNDATION, 47.5 FT M.H. U.N.O., 15 FT MAST ARM, LUMINAIRE TO BE LED, HORIZONTAL MOUNT, OUTPUT DESIGNATION H (240 VAC) U.N.O.
	EXISTING ORNAMENTAL VILLAGE LIGHTING TO REMAIN
	EXISTING UNDERPASS LUMINAIRE TO BE REMOVED, NO SALVAGE
	PROPOSED UNDERPASS LED LUMINAIRE, WALL MOUNTED, UNLESS NOTED OTHERWISE
	EXISTING JUNCTION BOX TO BE REMOVED
	PROPOSED JUNCTION BOX, SIZE AND TYPE AS NOTED
	EXISTING IDOT LIGHTING CONTROLLER TO BE REMOVED, SALVAGED
	PROPOSED IDOT LIGHTING CONTROLLER
	EXISTING ELECTRIC UTILITY SERVICE TO BE REMOVED
	PROPOSED ELECTRIC UTILITY SERVICE
	EXISTING UNDERGROUND UNIT DUCT TO BE ABANDONED IN PLACE
	EXISTING UNIT DUCT IN EXISTING UNDERGROUND CONDUIT.
	EXISTING CONDUIT ATTACHED TO STRUCTURE TO BE REMOVED
	PROPOSED CONDUIT ATTACHED TO STRUCTURE, SIZE AND TYPE AS NOTED
	PROPOSED UNIT DUCT, SIZE AND TYPE AS NOTED
	PROPOSED UNIT DUCT IN UNDERGROUND CONDUIT, SIZE AND TYPE AS NOTED

ABBREVIATIONS

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

CALL-OUT SAMPLE



GENERAL NOTES

1. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2022, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL CONTACT MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES 773-287-7672.
3. LIGHTING CONTROLLERS: 'VA' AND 'VC' COMED ENERGY CONTACT PERSON: VALERIE WESTBROOK TELEPHONE NUMBER: (847) 816-5489 EMAIL: VALERIE.WESTBROOK@COMED.COM ACCOUNT NUMBERS:
CONTROLLER VA: 01631-47331
CONTROLLER VC: 06071-25011

IDOT-D1 STANDARDS:

STANDARD NO.	TITLE
BE-200	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL)
BE-206	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION
BE-220	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT
BE-305	LIGHT POLE FOUNDATION, METAL
BE-310	LIGHT POLE FOUNDATION OFFSET 40' (12.192m) TO 47 1/2' (14.478m) M.H., 15" (381mm) BOLT CIRCLE
BE-400	ALUMINUM LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS SHEET A
BE-901	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS
BE-903	PIER/ABUTMENT MOUNTED LED UNDERPASS LUMINAIRE INSTALLATION DETAILS

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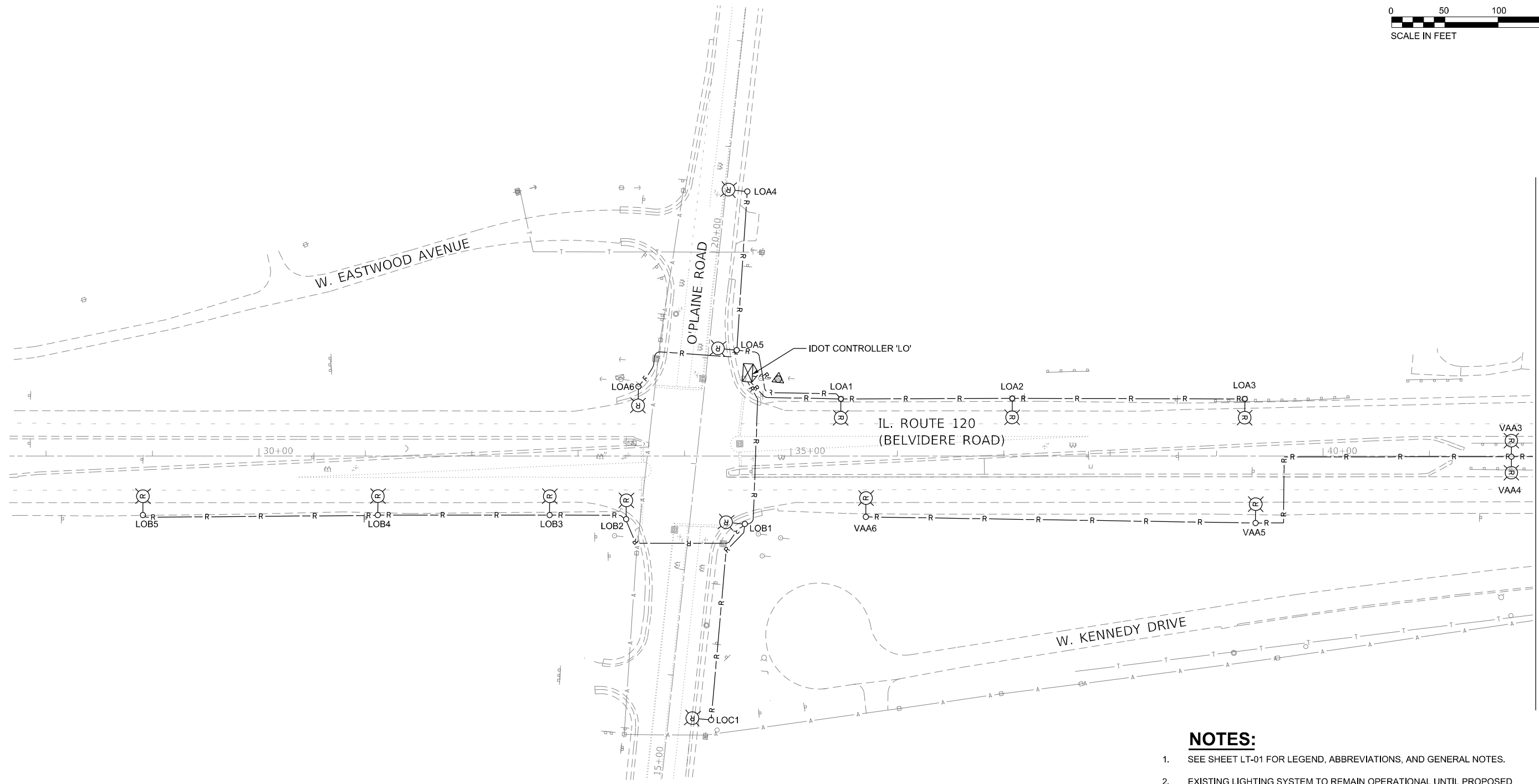
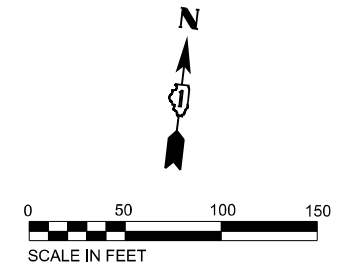
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING LEGEND AND GENERAL NOTES

SCALE: NTS SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	11
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				

LT-01



MATCH LINE STA. 42+00
SEE SHEET LT-03

NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING SYSTEM TO REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
3. LIGHTING CONTROLLERS REMOVED SHALL REMAIN THE PROPERTY OF IDOT AND SHALL BE DELIVERED TO AN IDOT FACILITY WITHIN DISTRICT 1. CONTROLLERS SHALL BE CAREFULLY REMOVED, LOADED ON TRUCK, DELIVERED TO A DEPARTMENT FACILITY AND CAREFULLY UNLOADED. THE CONTRACTOR SHALL CALL IDOT EMC AT (708) 524-2145 TO SCHEDULE DELIVERY DATE AND LOCATION.

LT-02

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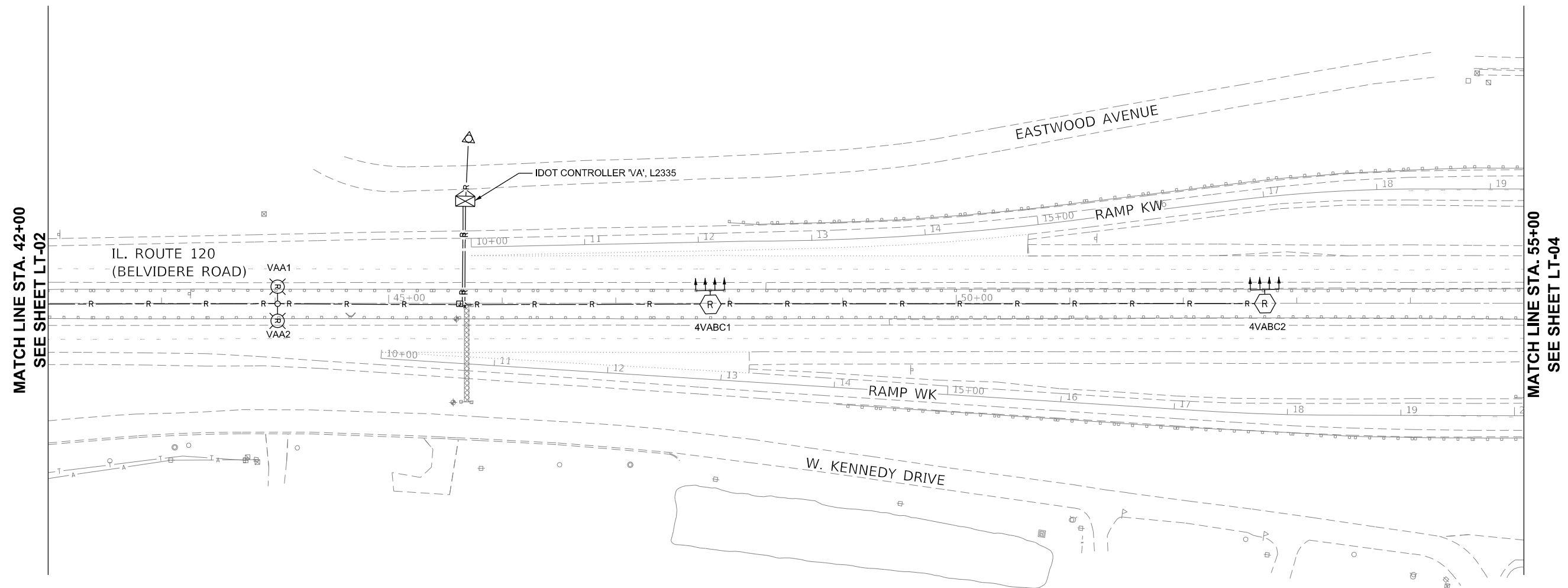
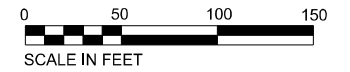
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL LIGHTING PLAN IL RTE 120(BELVIDERE ROAD)
AT O'PLAINE ROAD**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 12
			CONTRACT NO. 62M92	
ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING SYSTEM TO REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
3. LIGHTING CONTROLLERS REMOVED SHALL REMAIN THE PROPERTY OF IDOT AND SHALL BE DELIVERED TO AN IDOT FACILITY WITHIN DISTRICT 1. CONTROLLERS SHALL BE CAREFULLY REMOVED, LOADED ON TRUCK, DELIVERED TO A DEPARTMENT FACILITY AND CAREFULLY UNLOADED. THE CONTRACTOR SHALL CALL IDOT EMC AT (708) 524-2145 TO SCHEDULE DELIVERY DATE AND LOCATION.

LT-03

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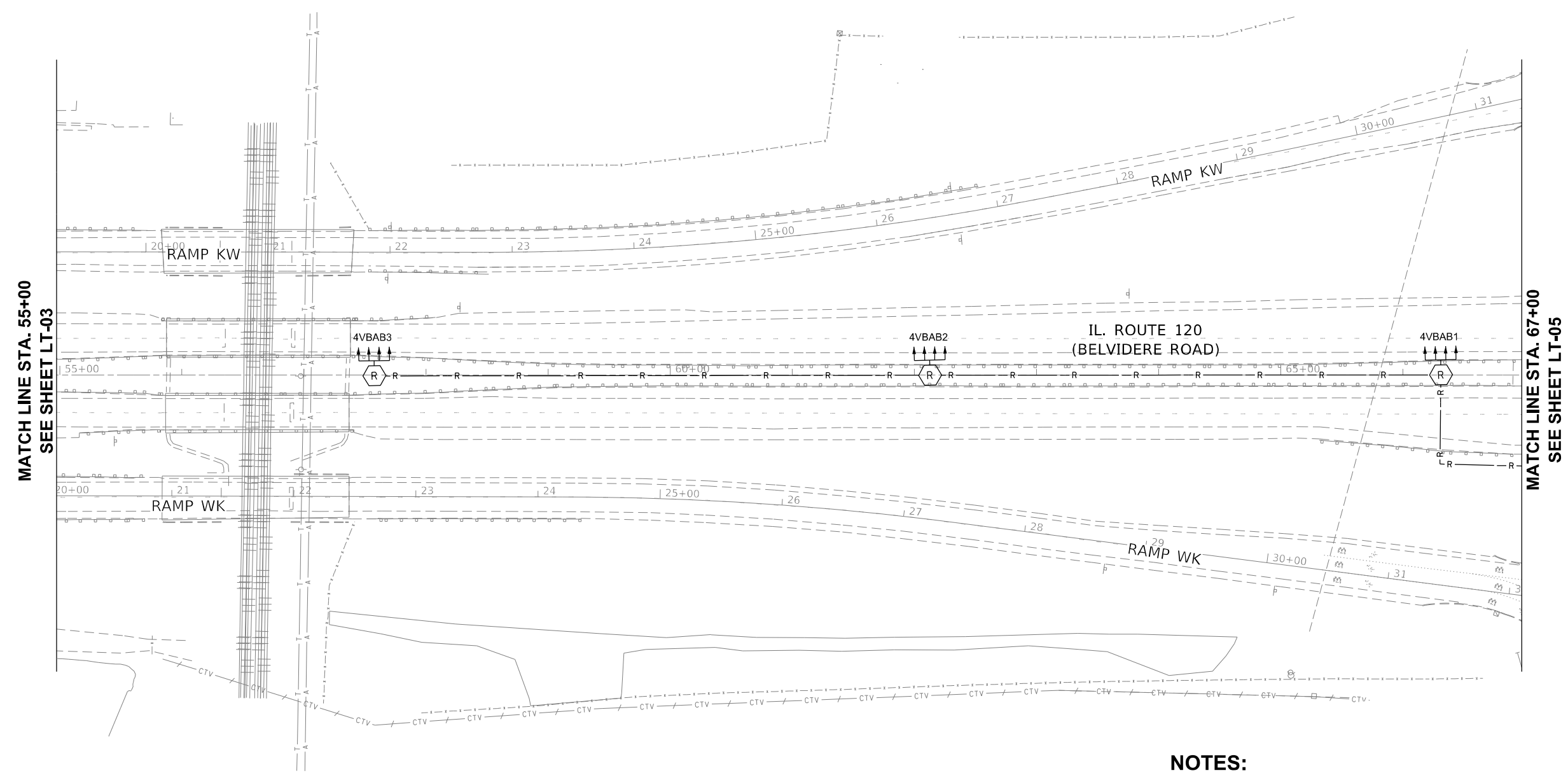
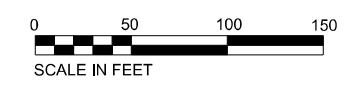
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL LIGHTING PLAN IL RTE 120(BELVIDERE ROAD)
AT O'PLAINE ROAD

F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 13
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING SYSTEM TO REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
3. LIGHTING CONTROLLERS REMOVED SHALL REMAIN THE PROPERTY OF IDOT AND SHALL BE DELIVERED TO AN IDOT FACILITY WITHIN DISTRICT 1. CONTROLLERS SHALL BE CAREFULLY REMOVED, LOADED ON TRUCK, DELIVERED TO A DEPARTMENT FACILITY AND CAREFULLY UNLOADED. THE CONTRACTOR SHALL CALL IDOT EMC AT (708) 524-2145 TO SCHEDULE DELIVERY DATE AND LOCATION.

LT-04

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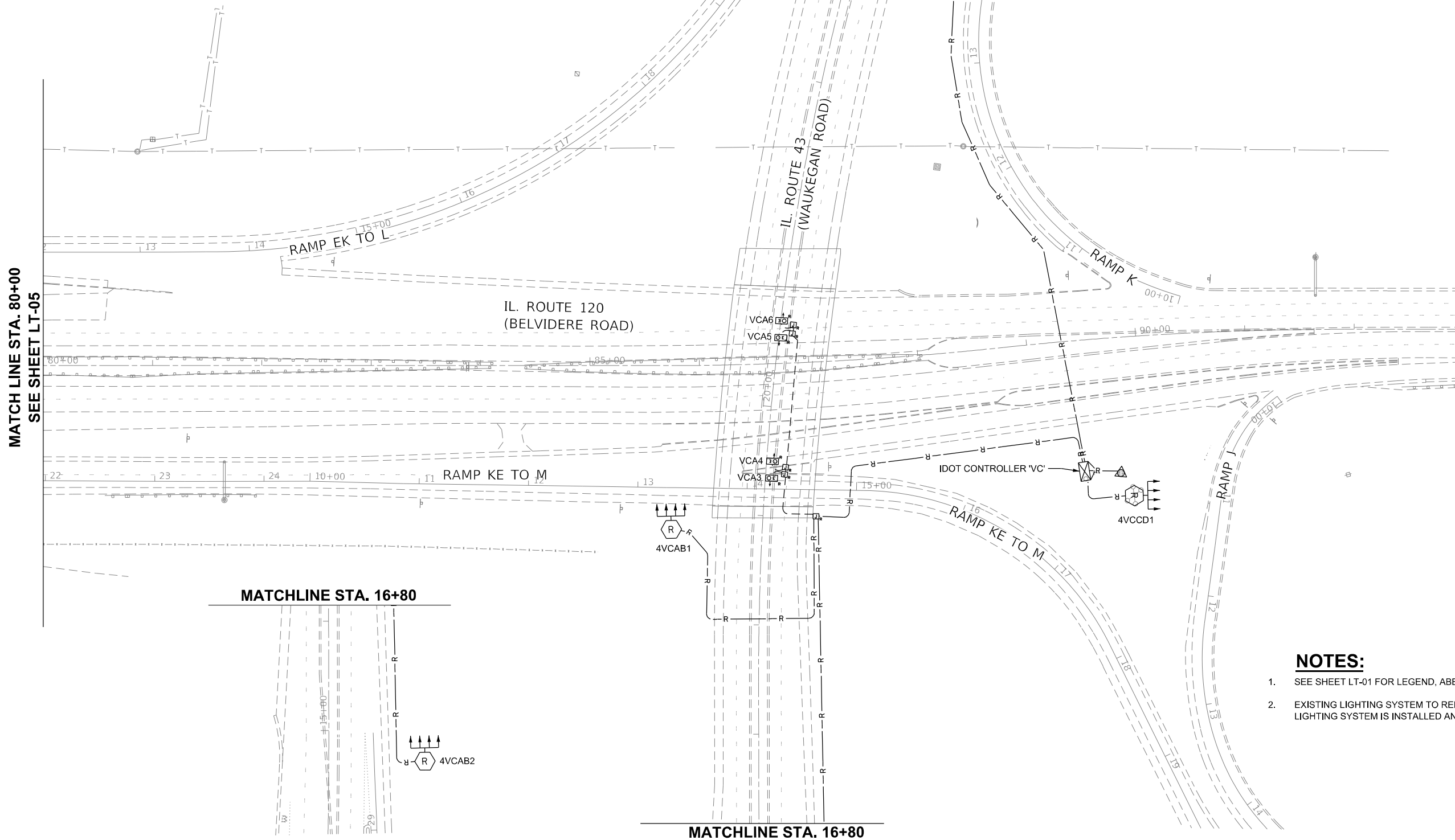
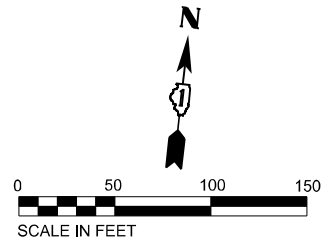
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL LIGHTING PLAN IL RTE 120(BELVIDERE ROAD)
AT O'PLAINE ROAD

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	14
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA. 80+00
SEE SHEET LT-05

MATCHLINE STA. 16+80

MATCHLINE STA. 16+80

NOTES:

- SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- EXISTING LIGHTING SYSTEM TO REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.

LT-06

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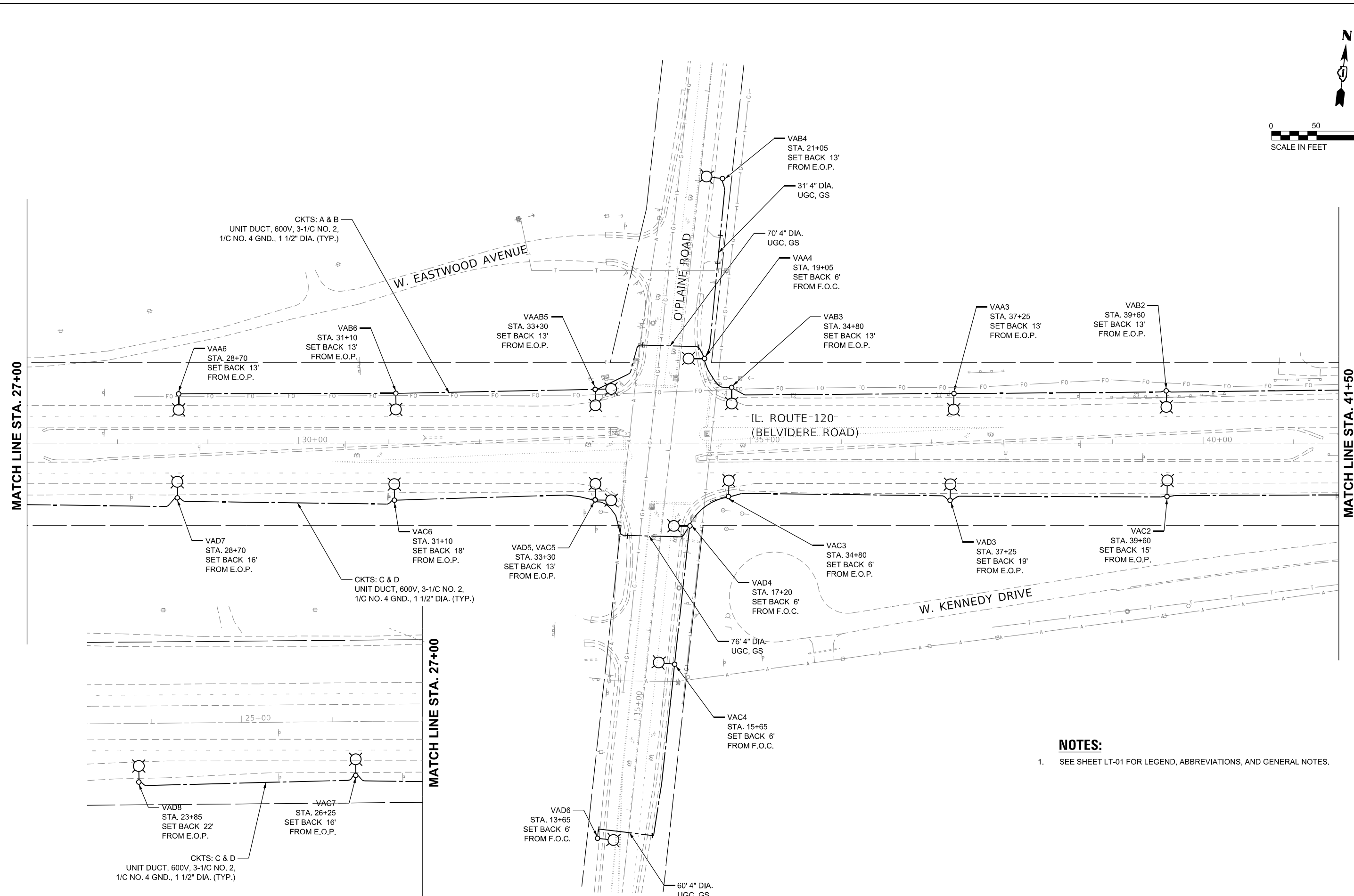
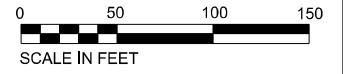
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL LIGHTING PLAN IL RTE 120(BELVIDERE ROAD)
AT O'PLAINE ROAD

SCALE: SCALE: SHEET OF SHEETS STA. 80+00 TO STA. -

F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 16
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				



- NOTES:**
- SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

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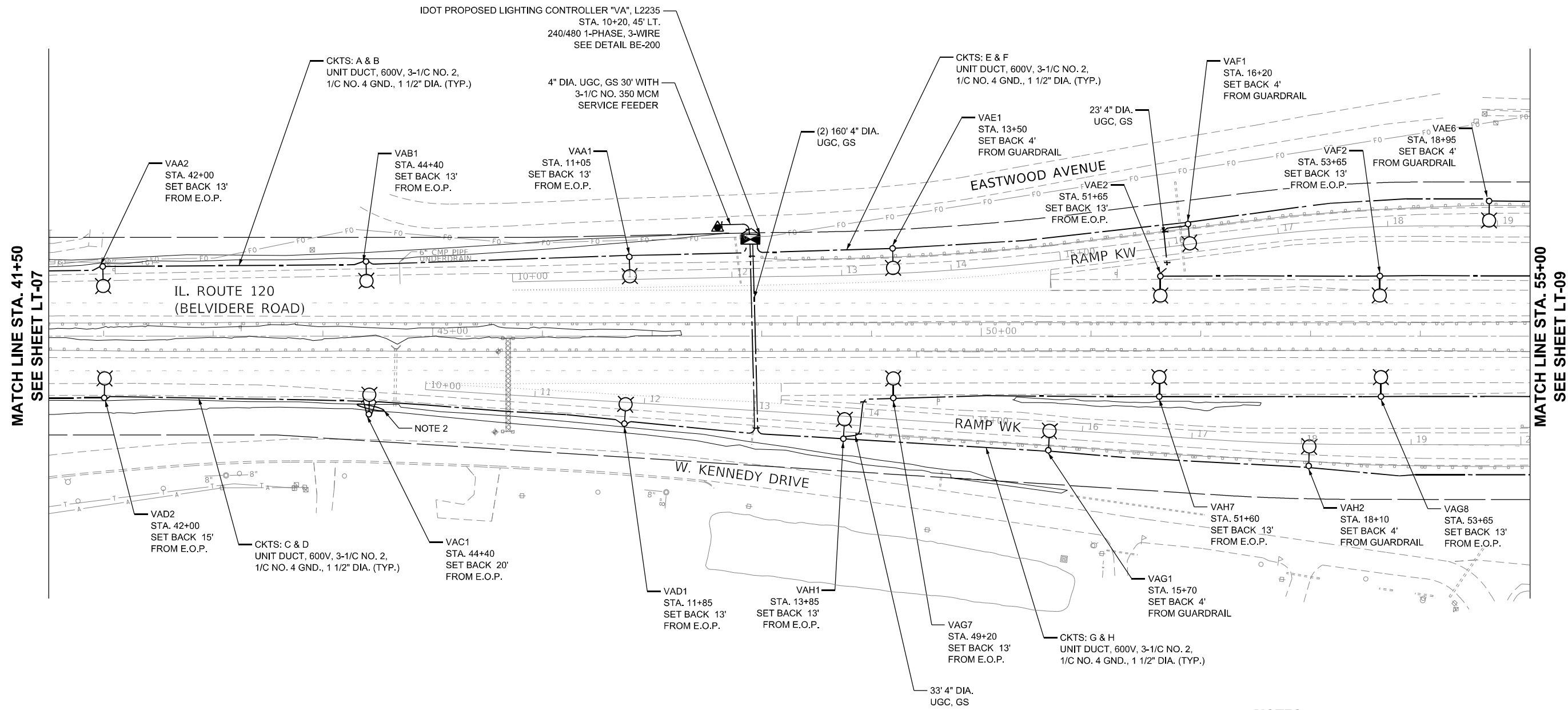
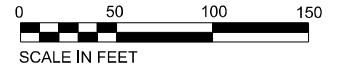
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	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN IL RTE 120(BELVIDERE ROAD)
AT O'PLAINE ROAD
 SCALE: 1"=50' SHEET 2 OF 6 SHEETS STA. - TO STA. 41+50

F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 17
			CONTRACT NO. 62M92	
ILLINOIS FED. AID PROJECT				

LT-07



NOTES:

- SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- PROPOSED UNIT DUCT CROSSING BENEATH THE WETLAND SHALL BE INSTALLED IN A WAY THAT WETLAND SHALL NOT BE IMPACTED DURING INSTALLATION. THE PROPOSED BORING AND RECEIVING PITS SHALL BE OUTSIDE OF THE DELINEATED WETLAND BOUNDARIES.

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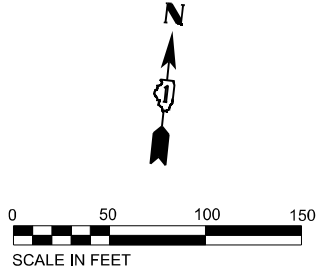
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN IL RTE 120(BELVIDERE ROAD)
AT O'PLAINE ROAD

SCALE: 1"=50' SHEET 3 OF 6 SHEETS STA. 41+50 TO STA. 55+00

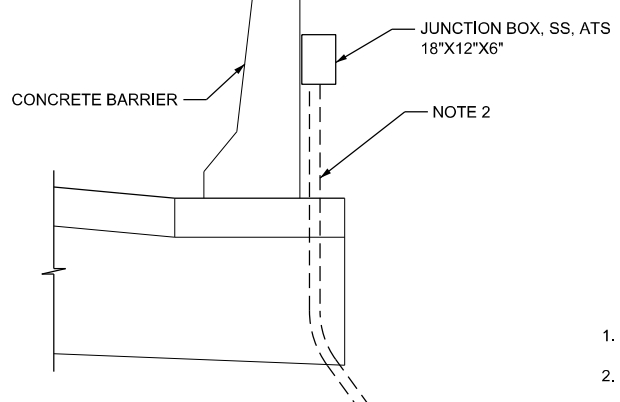
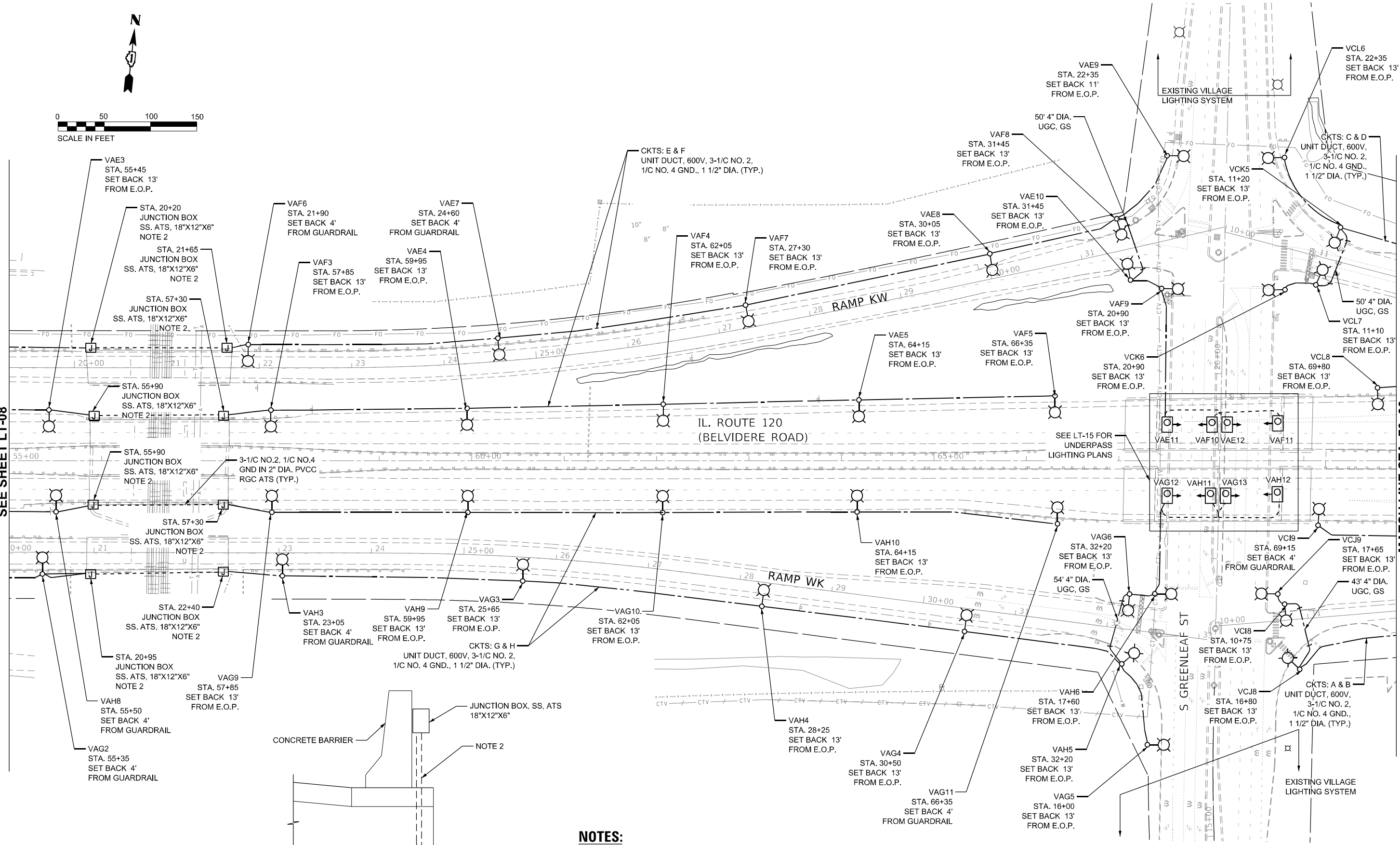
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	18
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				

LT-08



MATCH LINE STA. 55+00
SEE SHEET LT-08

MATCH LINE STA. 70+00
SEE SHEET LT-10



NOTES:

- SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- REFER TO IDOT STANDARD 812001 (SHEET 1 OF 3) FOR MORE DETAILS. USE 3" STAINLESS STEEL CONDUIT TRANSITIONING FROM JUNCTION BOX ATTACHED TO STRUCTURE GOING UNDERGROUND TO ACCOMMODATE 1 1/2" UNIT DUCT. USE IDOT STANDARD 812001 WITH EXCEPTION NOTED ON DETAILS HERE ON PLANS.

JUNCTION BOX ATTACHED TO BARRIER WALL

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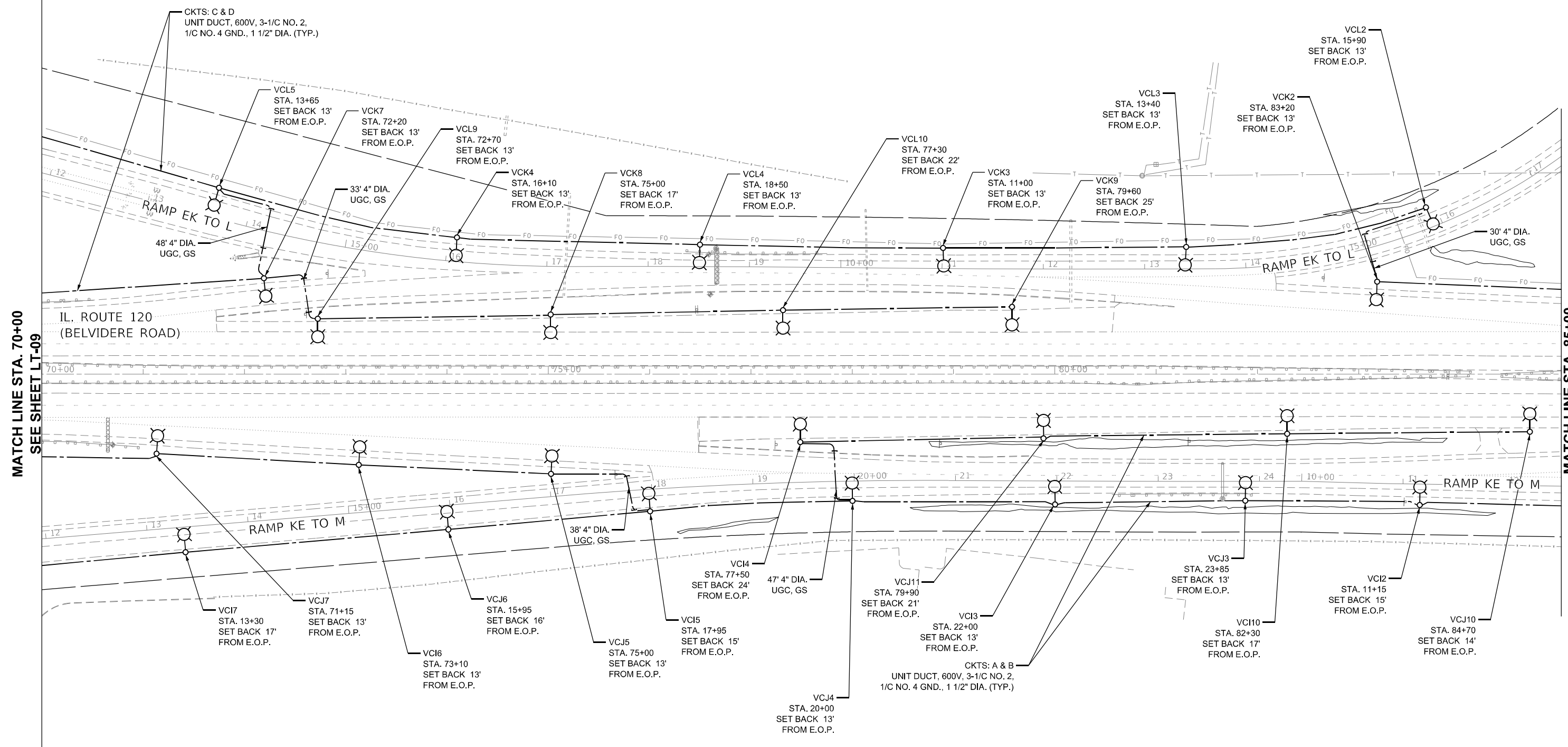
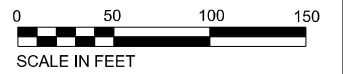
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	DATE - 10/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN IL RTE 120(BELVIDERE ROAD)
AT O'PLAINE ROAD**

F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 19
SCALE: 1"=50'			SHEET 4 OF 6 SHEETS STA. 55+00 TO STA. 70+00	
ILLINOIS FED. AID PROJECT CONTRACT NO. 62M92				

LT-09



- NOTES:**
- SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

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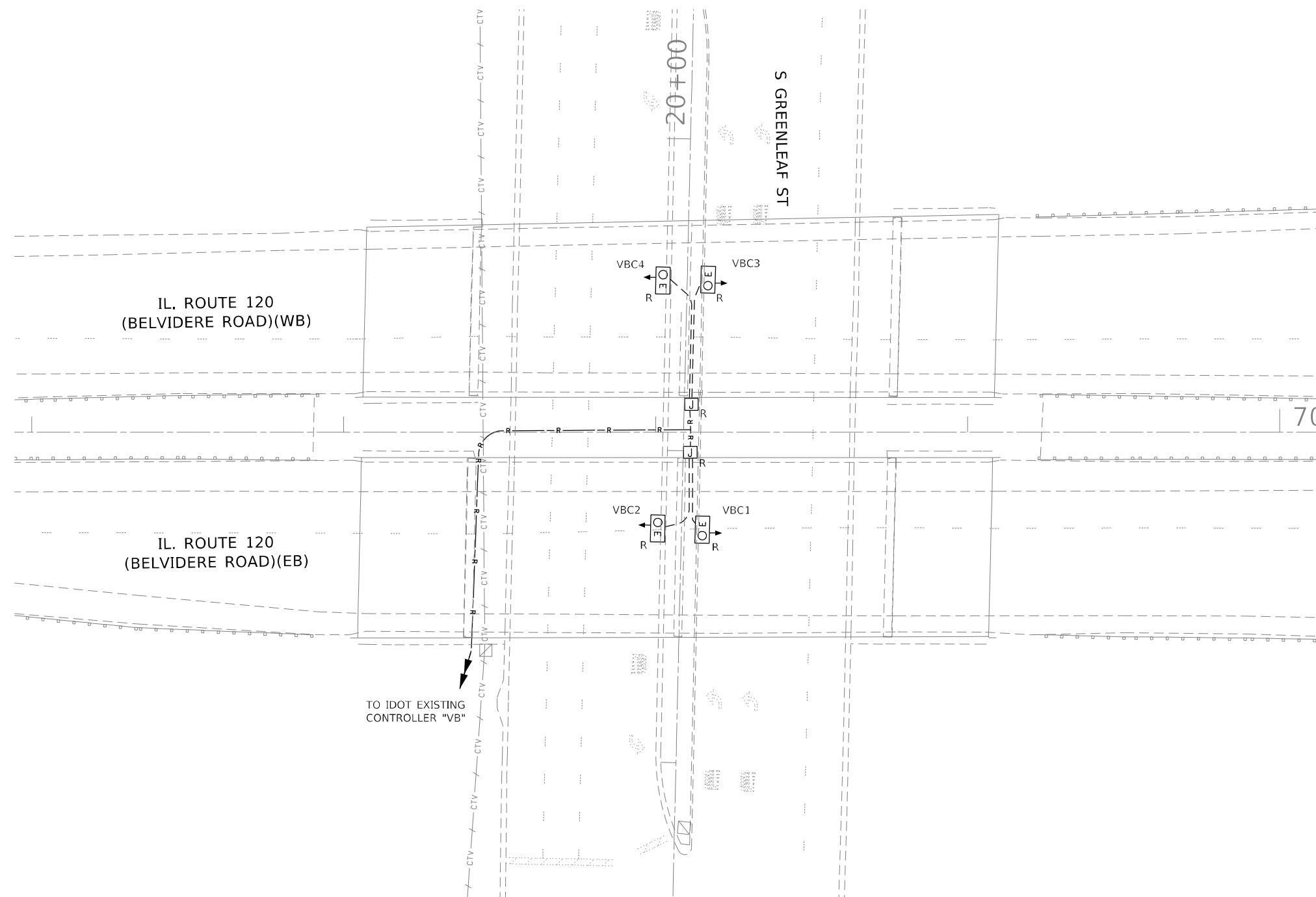
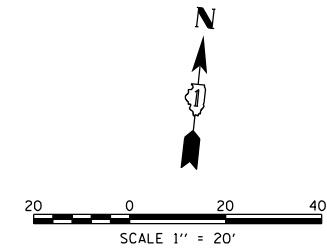
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	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN IL RTE 120(BELVIDERE ROAD)
AT O'PLAINE ROAD
 SCALE: 1"=50' SHEET 5 OF 6 SHEETS STA. 70+00 TO STA. 85+00

F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 20
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				

LT-10



NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. THE EXISTING WALL MOUNTED UNDERPASS LUMINAIRES SHALL REMAIN OPERATIONAL UNTIL THE PROPOSED WALL MOUNTED UNDERPASS LIGHTING SYSTEM IS INSTALLED AND ENERGIZED.

MODEL Path: \\s\101\p\333\148601\Task-Order\13162\M92014_CADD\CADD-Sheets\162\M92-ctrl\light-12.dwg
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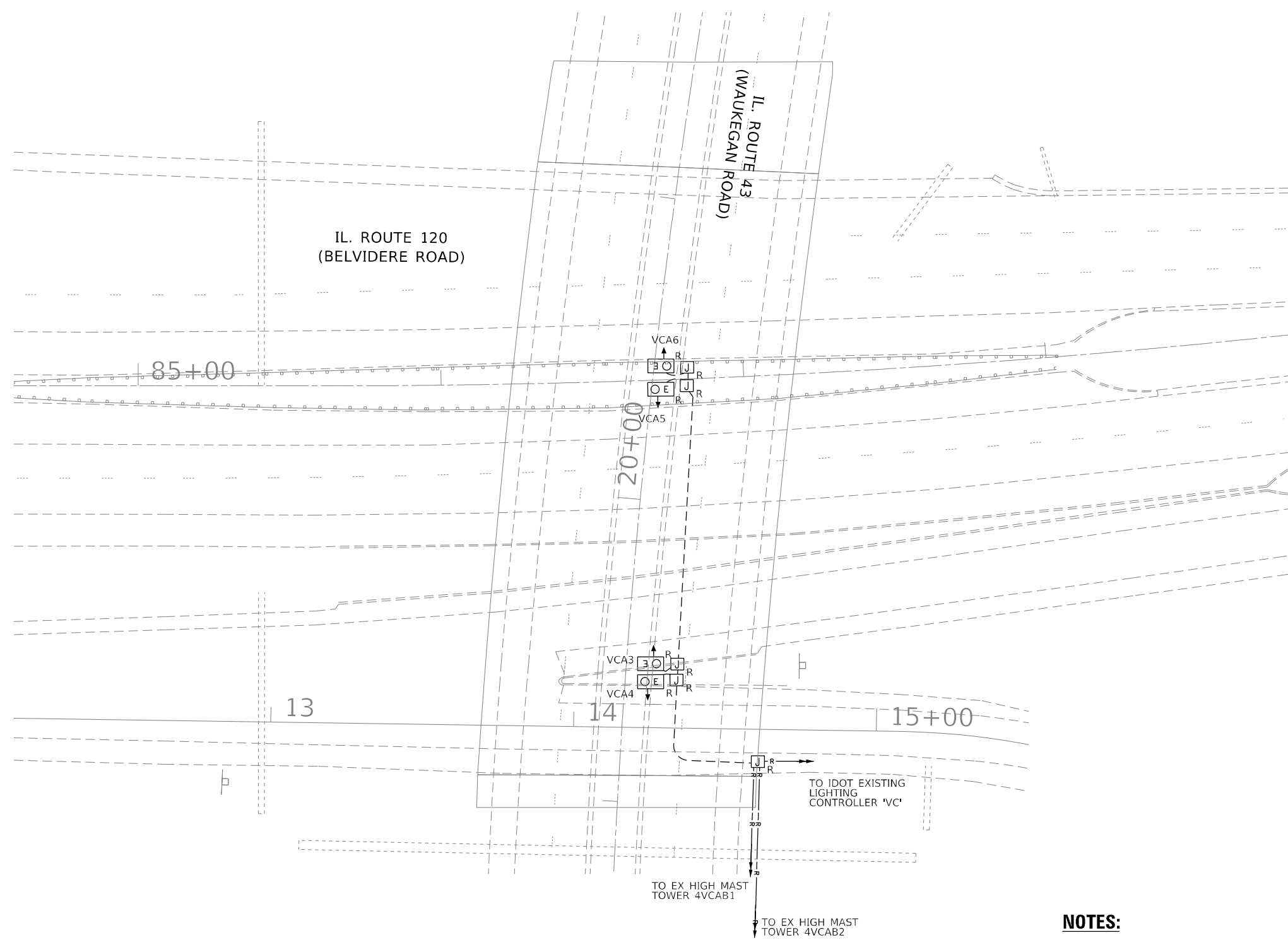
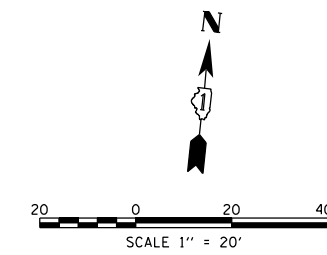
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING UNDERPASS LIGHTING REMOVAL PLAN IL RTE 120
AT GREENLEAF ST

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	22
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				

LT-12



NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. THE EXISTING SUSPENDED AND WALL MOUNTED UNDERPASS LUMINAIRES SHALL REMAIN OPERATIONAL UNTIL THE PROPOSED WALL MOUNTED UNDERPASS LIGHTING SYSTEM IS INSTALLED AND ENERGIZED.

LT-13

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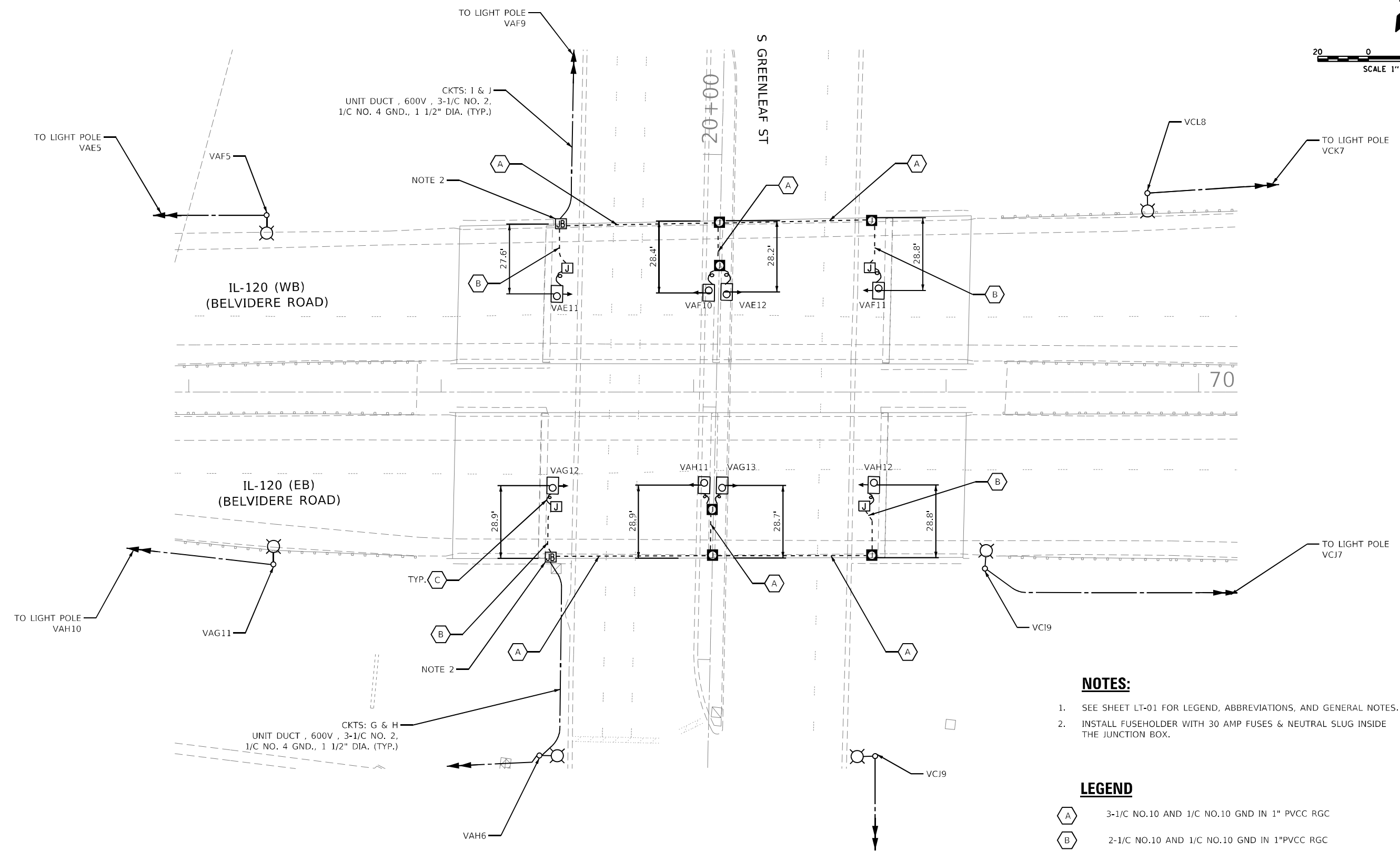
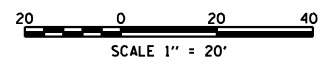
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING UNDERPASS LIGHTING REMOVAL PLAN IL RTE 120
AT WAUKEGAN RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	23
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. INSTALL FUSEHOLDER WITH 30 AMP FUSES & NEUTRAL SLUG INSIDE THE JUNCTION BOX.

LEGEND

- 3-1/C NO.10 AND 1/C NO.10 GND IN 1" PVCC RGC
- 2-1/C NO.10 AND 1/C NO.10 GND IN 1"PVCC RGC
- 2-1/C NO.10 AND 1-1/C NO.10 GND IN 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT
- 18" X 18" X 8" STAINLESS STEEL JUNCTION BOX ATTACHED TO STRUCTURE
- 12" X 10" X 6" STAINLESS STEEL JUNCTION BOX, ATTACHED TO STRUCTURE
- 6" X 6" X 4" STAINLESS STEEL JUNCTION BOX, ATTACHED TO STRUCTURE

LT-14

MODEL: P:\d\h\l... FILE NAME: V:\0101\p\622148601\Task_Order\13162\M92\04_CADD\CADD_Sheets\162\M92-2-ct-light-14.dwg



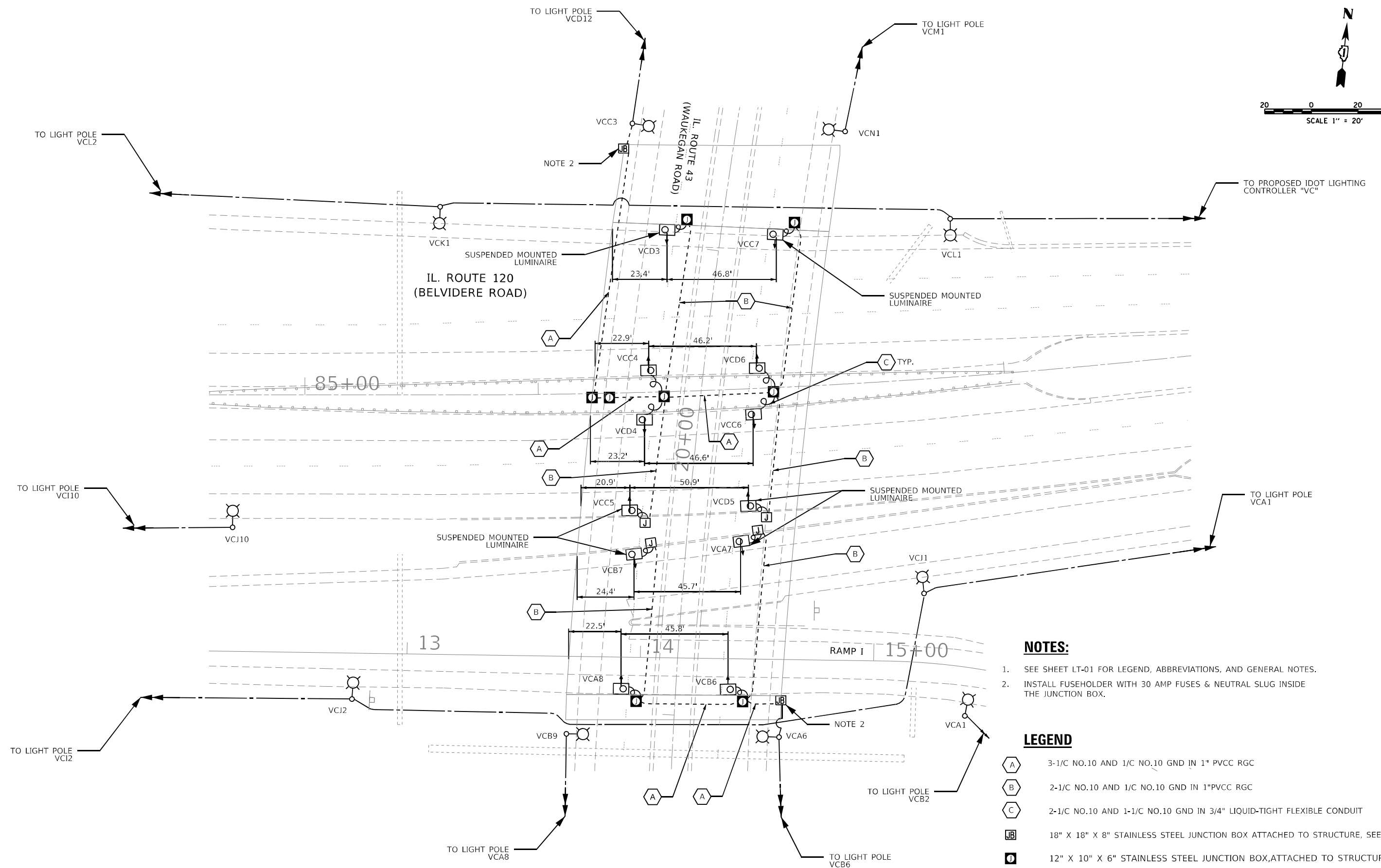
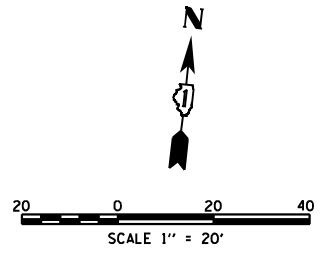
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED UNDERPASS LIGHTING INSTALLATION PLAN IL RTE 120
AT GREENLEAF ST**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 24
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				



- NOTES:**
- SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
 - INSTALL FUSEHOLDER WITH 30 AMP FUSES & NEUTRAL SLUG INSIDE THE JUNCTION BOX.
- LEGEND**
- A 3-1/8" NO.10 AND 1/8" NO.10 GND IN 1" PVC RGC
 - B 2-1/8" NO.10 AND 1/8" NO.10 GND IN 1" PVC RGC
 - C 2-1/8" NO.10 AND 1-1/8" NO.10 GND IN 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT
 - JB 18" X 18" X 8" STAINLESS STEEL JUNCTION BOX ATTACHED TO STRUCTURE, SEE NOTE 2
 - O 12" X 10" X 6" STAINLESS STEEL JUNCTION BOX, ATTACHED TO STRUCTURE
 - J 6" X 6" X 4" STAINLESS STEEL JUNCTION BOX, ATTACHED TO STRUCTURE

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PLOT DATE = 10/22/2021	DATE - 10/22/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED UNDERPASS LIGHTING INSTALLATION PLAN IL RTE 120
 AT WAUKEGAN RD**

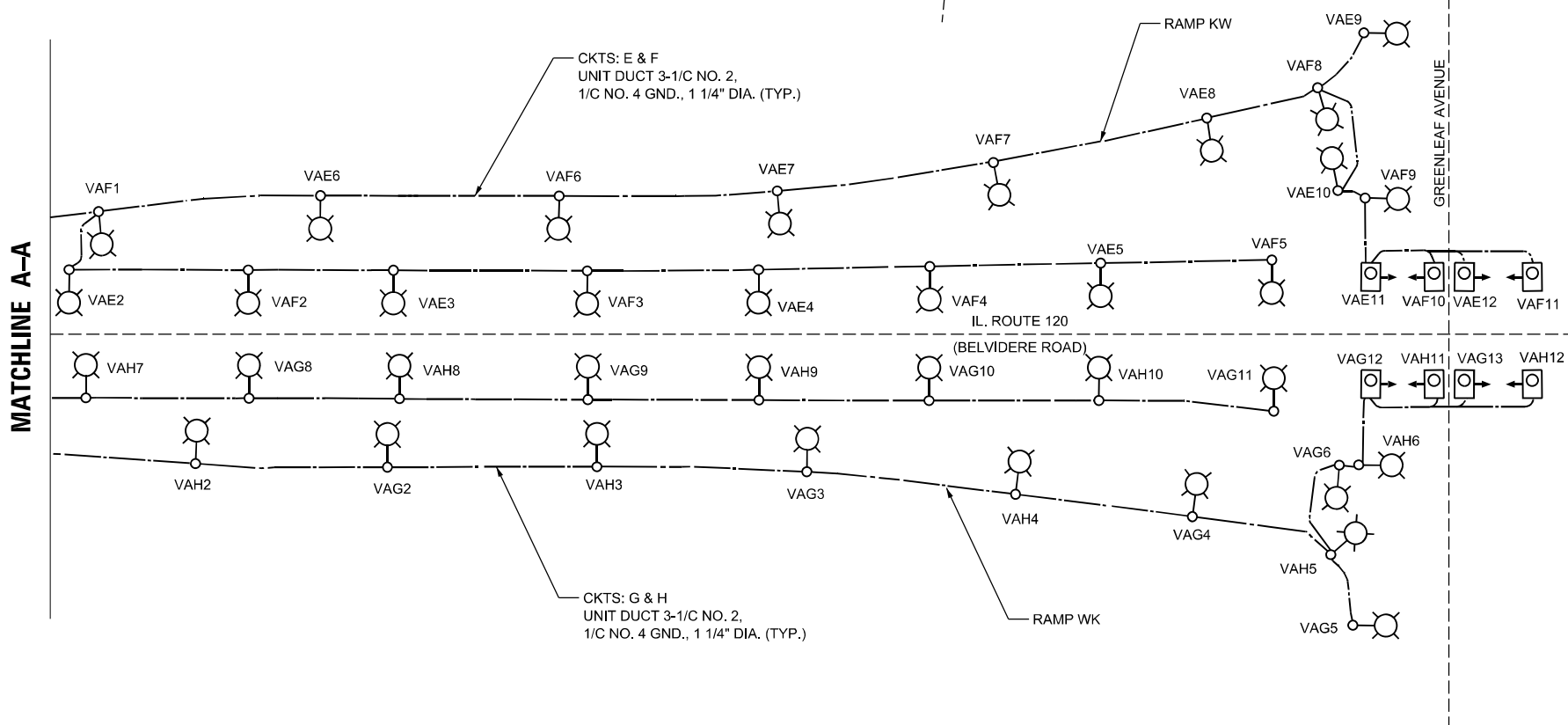
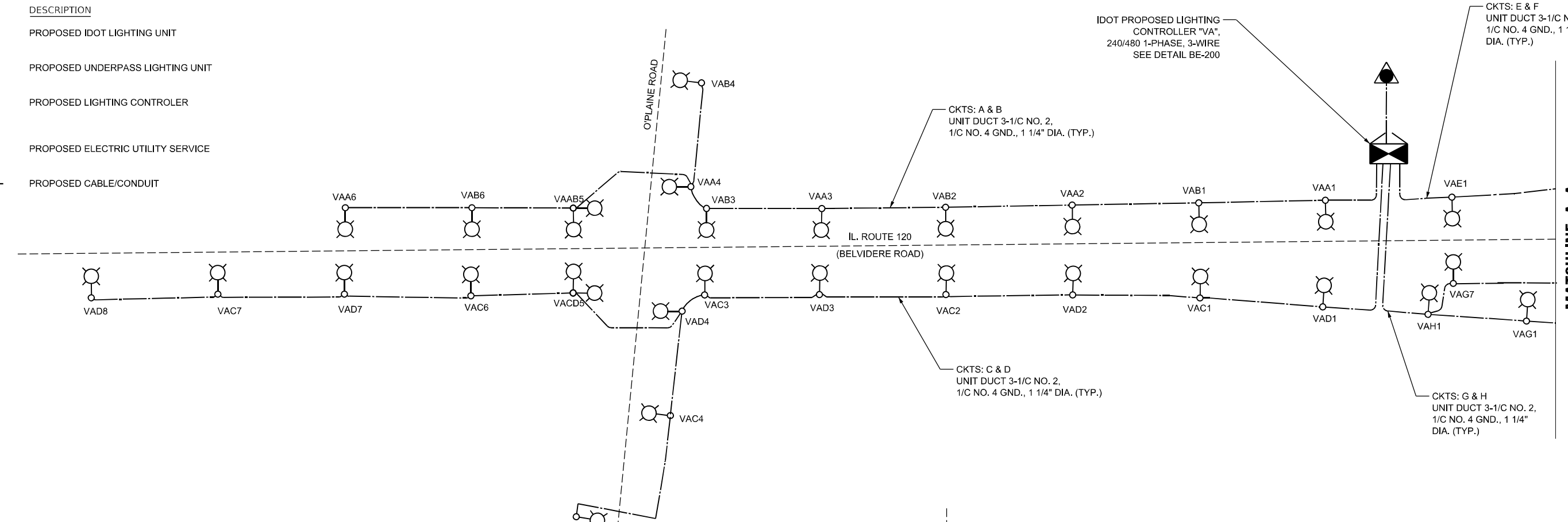
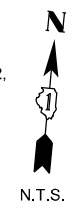
F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 25
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				

LT-15

SCALE: SHEET OF SHEETS STA. TO STA.

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED IDOT LIGHTING UNIT
	PROPOSED UNDERPASS LIGHTING UNIT
	PROPOSED LIGHTING CONTROLLER
	PROPOSED ELECTRIC UTILITY SERVICE
	PROPOSED CABLE/CONDUIT

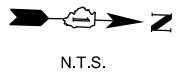


LOAD TABLE							
LIGHTING CONTROLLER 'VA', 240/480V, 1-Φ, 3-WIRE							
RED PHASE	NO. LUM. *	AMPS	WATTS	BLACK PHASE	NO. LUM. *	AMPS	WATTS
A	6-260W	6.50	1560.0	B	6-260W	6.50	1560.0
C	7-260W	7.58	1820.0	D	8-260W	8.67	2080.0
E	10-260W 2-95W	11.63	2790.0	F	9-260W 2-95W	10.54	2530.0
G	11-260W 2-95W	12.71	3050.0	H	10-260W 2-95W	11.63	2790.0
TOTAL	34-260W 4-95W	38.4	9220.0	TOTAL	33-260W 4-95W	37.3	8960.0
TOTAL CONNECTED LOAD CAPACITY:				18.18 KVA			

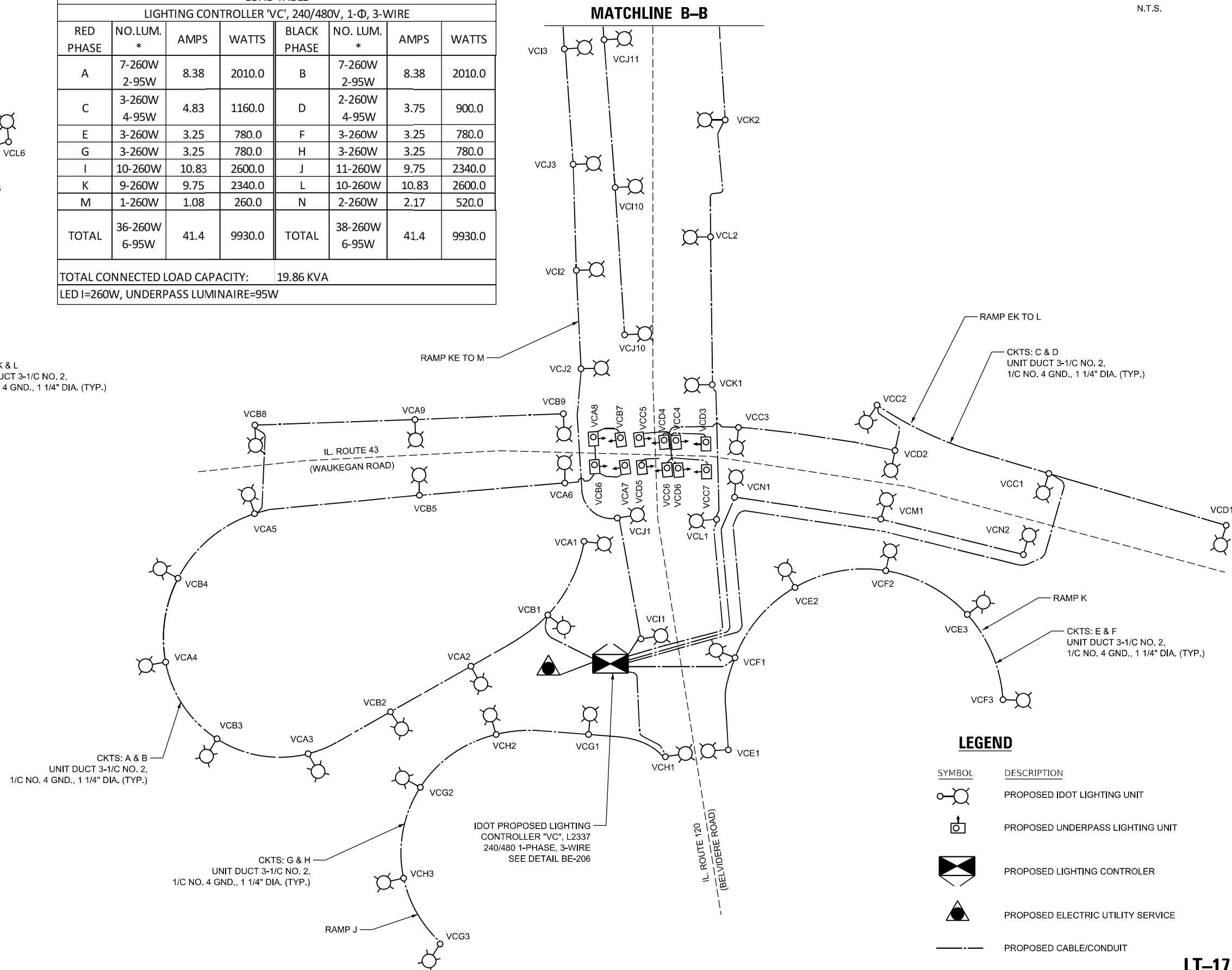
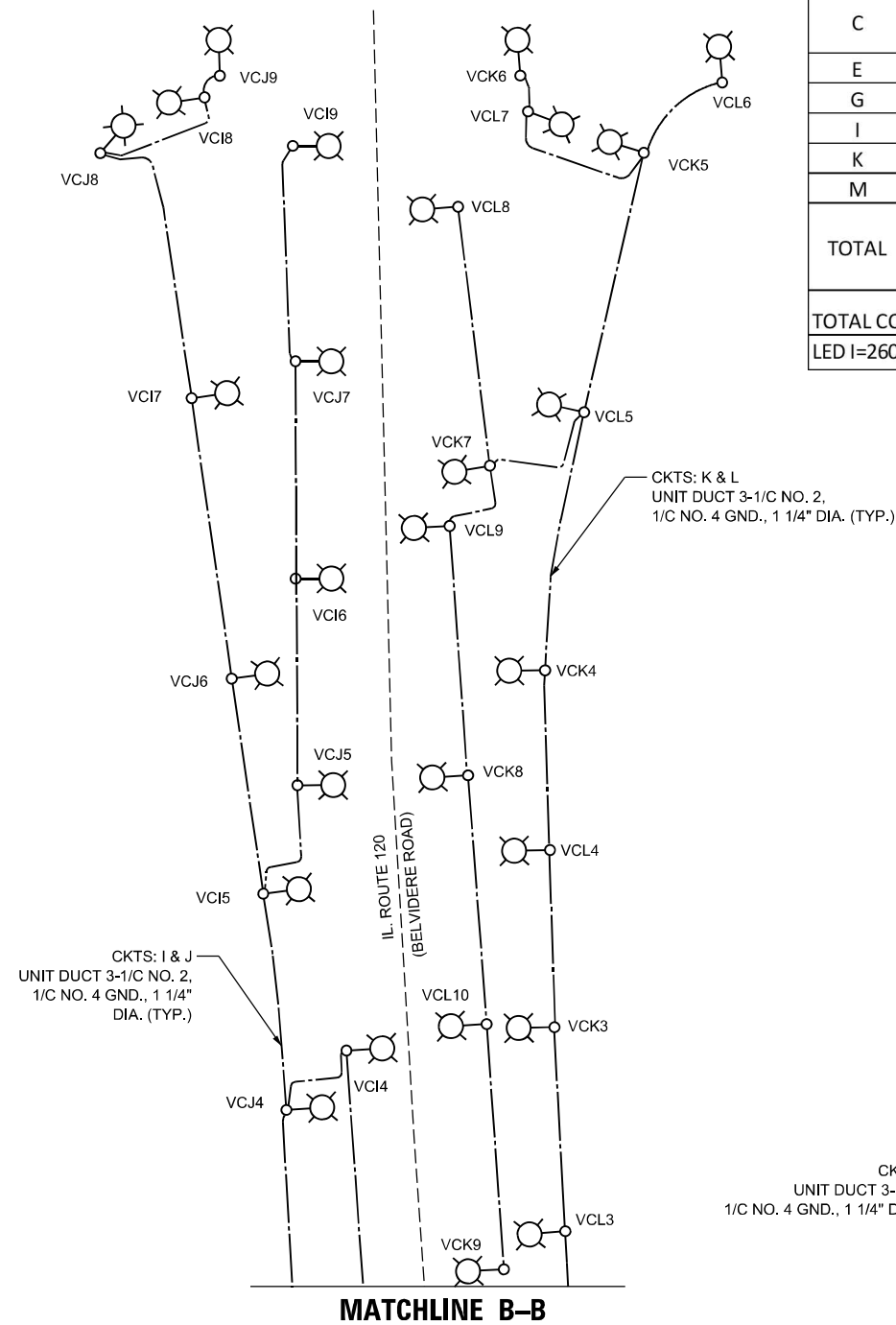
L2235, CONTROLLER "VA"

LT-16

	USER NAME = gshowers	DESIGNED - HP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING CONTROLLER "VA" WIRING DIAGRAM			F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 26	
	PLOT SCALE = 100,0000' / in.	CHECKED - RP/MG	REVISED -					CONTRACT NO. 62M92					
	PLOT DATE = 10/22/2021	DATE - 10/22/2021	REVISED -					ILLINOIS FED. AID PROJECT					
								SCALE: NTS	SHEET OF SHEETS	STA. TO STA.			



LOAD TABLE							
LIGHTING CONTROLLER 'VC', 240/480V, 1-Φ, 3-WIRE							
RED PHASE	NO. LUM. *	AMPS	WATTS	BLACK PHASE	NO. LUM. *	AMPS	WATTS
A	7-260W 2-95W	8.38	2010.0	B	7-260W 2-95W	8.38	2010.0
C	3-260W 4-95W	4.83	1160.0	D	2-260W 4-95W	3.75	900.0
E	3-260W	3.25	780.0	F	3-260W	3.25	780.0
G	3-260W	3.25	780.0	H	3-260W	3.25	780.0
I	10-260W	10.83	2600.0	J	11-260W	9.75	2340.0
K	9-260W	9.75	2340.0	L	10-260W	10.83	2600.0
M	1-260W	1.08	260.0	N	2-260W	2.17	520.0
TOTAL	36-260W 6-95W	41.4	9930.0	TOTAL	38-260W 6-95W	41.4	9930.0
TOTAL CONNECTED LOAD CAPACITY:				19.86 KVA			
LED I=260W, UNDERPASS LUMINAIRE=95W							



L2237, CONTROLLER "VC"

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

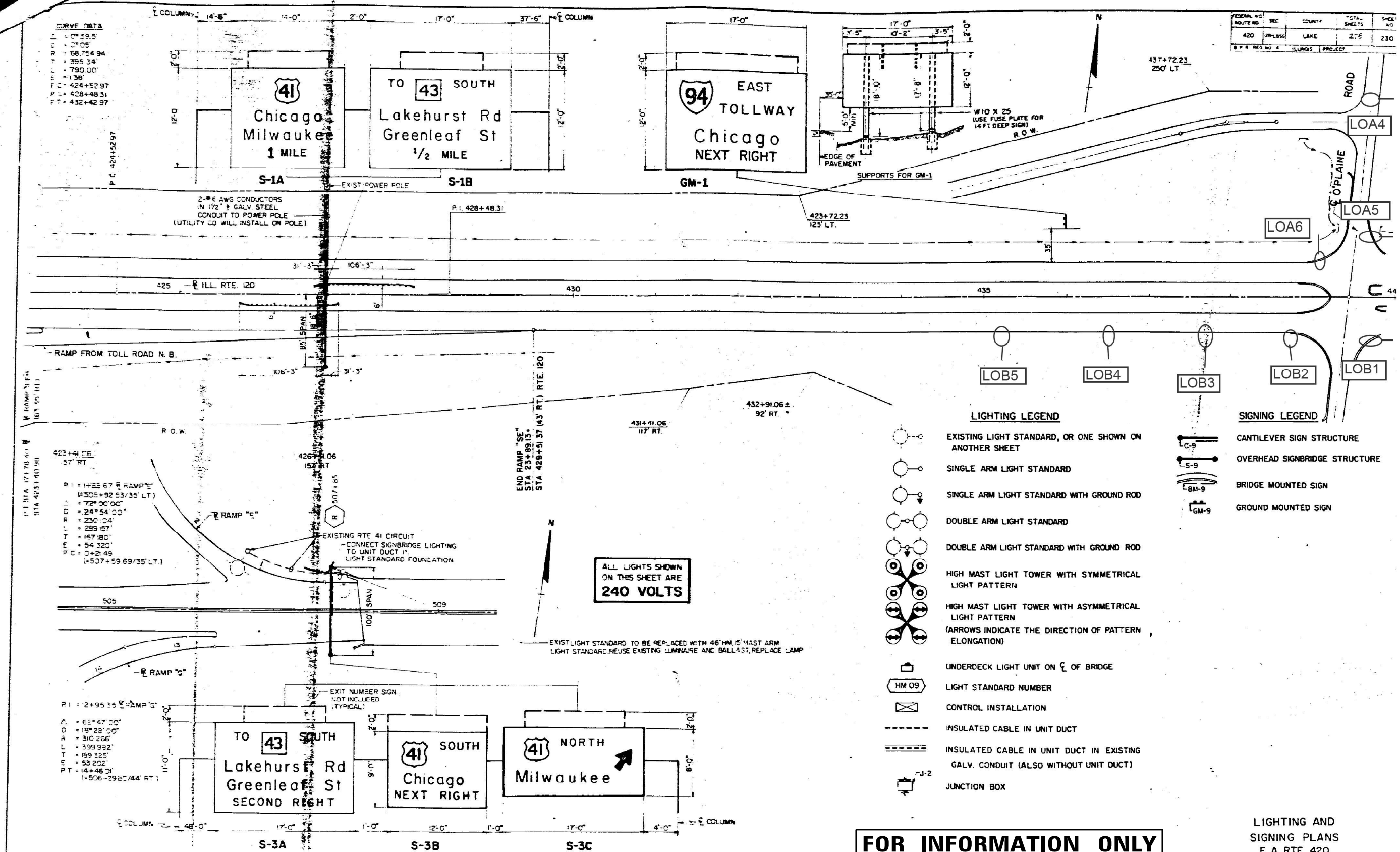
LIGHTING CONTROLLER "VC" WIRING DIAGRAM

SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 27
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				

LT-17

FED. AID	ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
420	218-L	LAKE	274	230	230
ILLINOIS PROJECT					



FOR INFORMATION ONLY

LIGHTING AND SIGNING PLANS
F. A. RTE. 420

CURVE DATA
 L = 0° 29.5'
 R = 0° 05'
 T = 68.754 94
 S = 395.34
 E = 790.00
 P.C. = 424+52.97
 P.T. = 428+48.31
 P.T. = 432+42.97

RAMP DATA
 P.I. STA 425+00.00
 STA 423+40.00
 STA 425+00.00
 P = 14325.67 RAMP
 (+505+92.53/35' LT.)
 I = 72° 00' 00"
 T = 24° 54' 00"
 S = 230.00'
 E = 259.57'
 P.T. = 427.180'
 T.P. = 54.320'
 C = 0+21.49
 (+507+59.69/35' LT.)

RAMP DATA
 P.I. STA 429+00.00
 STA 428+15.00
 STA 429+00.00
 P = 2+95.35 RAMP
 (+63+47' 00")
 D = 18° 28' 00"
 S = 310.266'
 T = 399.922'
 E = 189.325'
 P.T. = 53.202'
 P.T. = 14+46.01
 (+506-29.80/44' RT.)

MODEL: D:\in\11\1103\proj\1103_1103\1103_1103\CADD\CADD_Sheets\1103_1103_1103_1103.dwg

SINGH
SINGH + ASSOCIATES INC.
CONSULTING ENGINEERS

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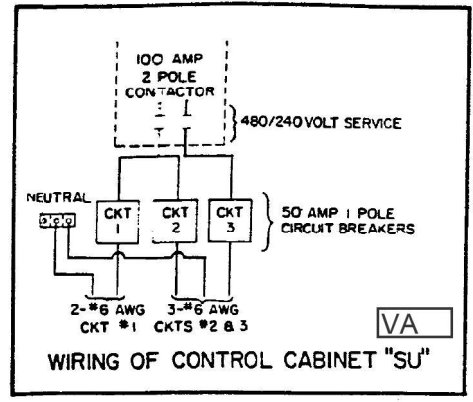
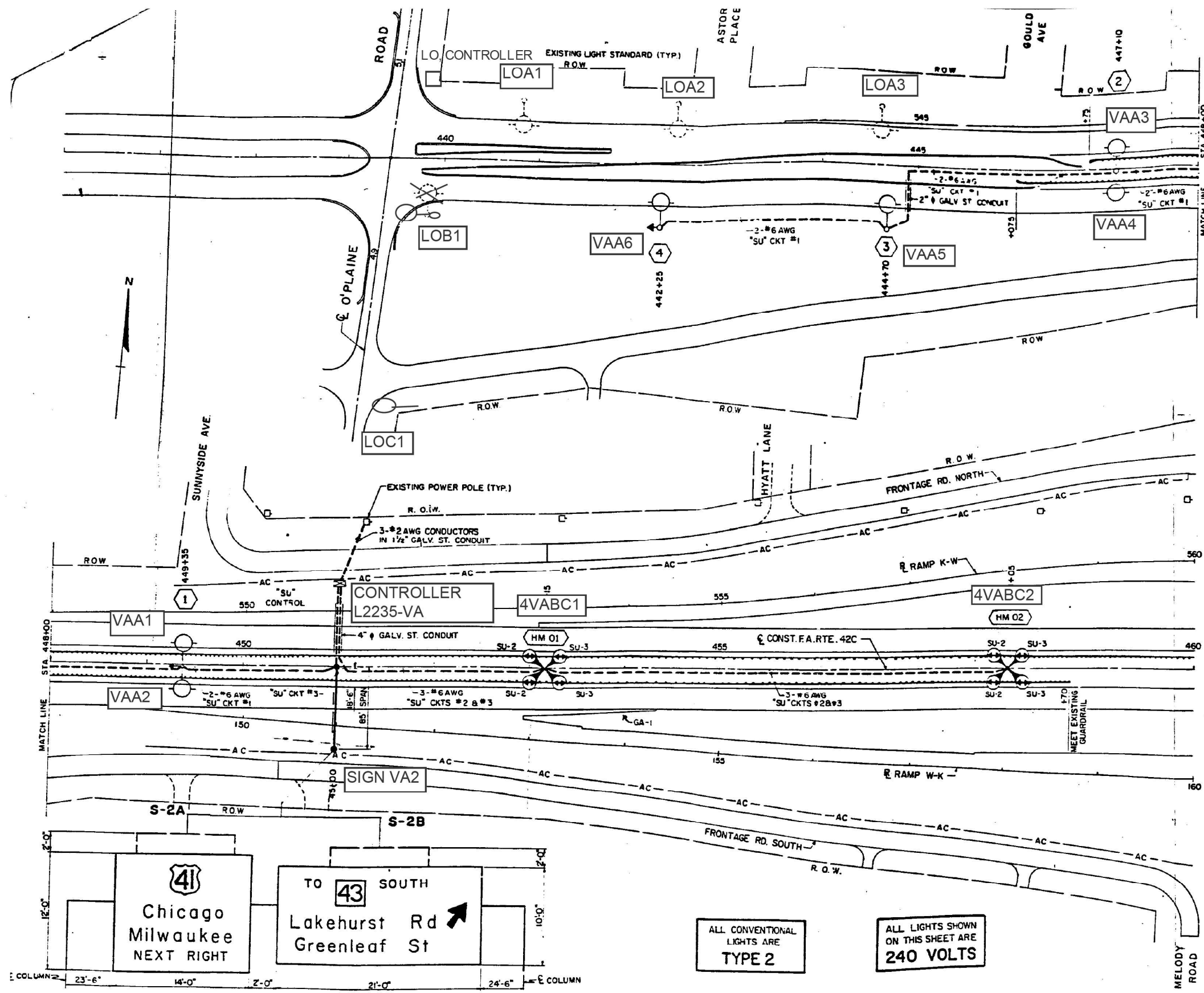
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILT LIGHTING PLANS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	28
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				

LT-18



NUMBER OF LAMPS PER CIRCUIT (VOLTAGE = 240V)

LAMP SIZE	CKT 1	CKT 2	CKT 3
1000 W	0	4	4
400 W	6	0	0
85 W	12	0	0
TOTAL AMPS	18	19	19

ELECTRIC LOADS AT CONTROL CABINET "SU" VA

USE SPECIALTY ITEM "CONTROL INSTALLATION TYPE CB RCS 100-480, DUAL" AT LOCATION "SU"

SPECIFICATION FOR CONTROL CABINET "SU" VA

FOR INFORMATION ONLY

ALL CONVENTIONAL LIGHTS ARE TYPE 2

ALL LIGHTS SHOWN ON THIS SHEET ARE 240 VOLTS

LIGHTING AND SIGNING PLANS
F. A. RTE. 420

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	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILT LIGHTING PLANS

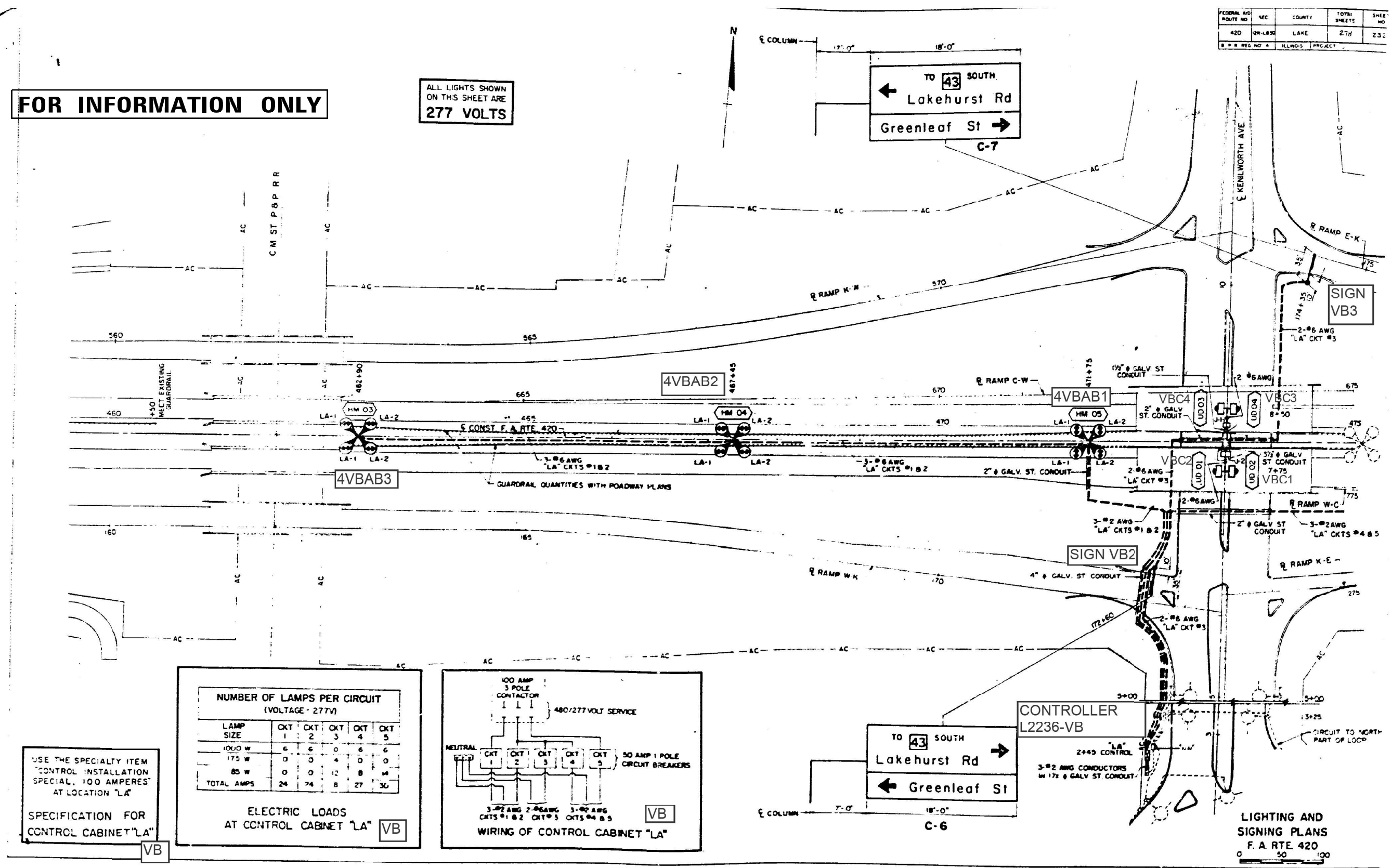
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M92	

FEDERAL RD ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
420	19N-185E	LAKE	274	232
B & B REG NO	ILLINOIS PROJECT			

FOR INFORMATION ONLY

ALL LIGHTS SHOWN ON THIS SHEET ARE 277 VOLTS



USE THE SPECIALTY ITEM "CONTROL INSTALLATION SPECIAL, 100 AMPERES" AT LOCATION "LA"

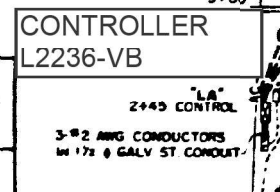
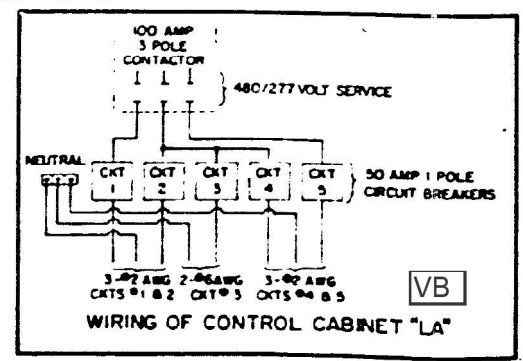
SPECIFICATION FOR CONTROL CABINET "LA"

VB

NUMBER OF LAMPS PER CIRCUIT (VOLTAGE - 277V)

LAMP SIZE	CKT 1	CKT 2	CKT 3	CKT 4	CKT 5
1000 W	6	6	0	6	6
175 W	0	0	4	0	0
85 W	0	0	12	8	14
TOTAL AMPS	24	74	8	27	30

ELECTRIC LOADS AT CONTROL CABINET "LA" VB



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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILT LIGHTING PLANS

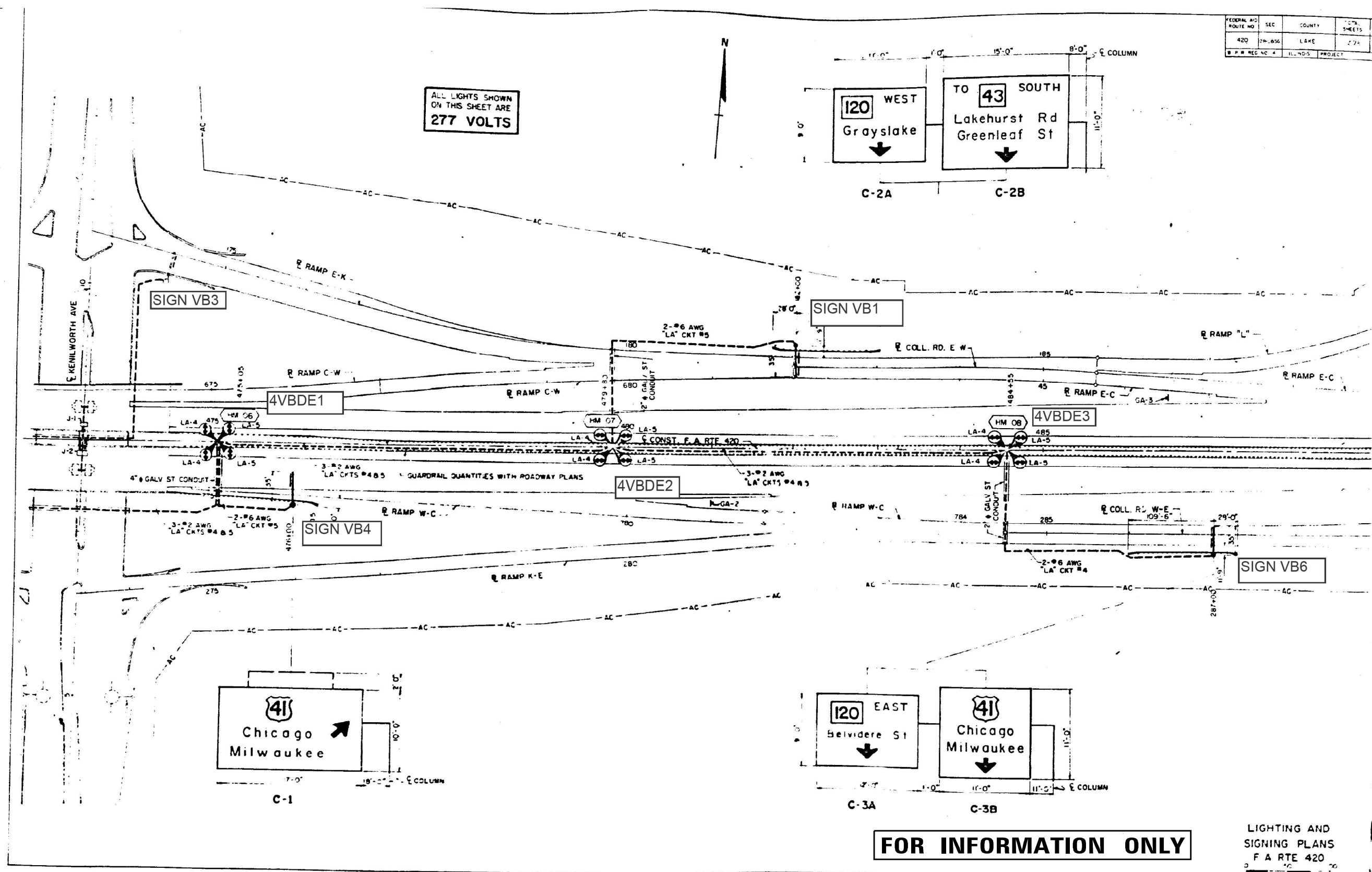
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	30
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				

LT-20

FEDERAL AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS
420	218-656	LAKE	274
S.P. # REG. NO.		ILLINOIS PROJECT	

ALL LIGHTS SHOWN ON THIS SHEET ARE 277 VOLTS



FOR INFORMATION ONLY

LIGHTING AND SIGNING PLANS
F A RTE 420

MODEL Path: \\s1011p01\proj\420\218-656\2104_CADD\CADD_Sheets\LD1621M92-218-656-21.dwg
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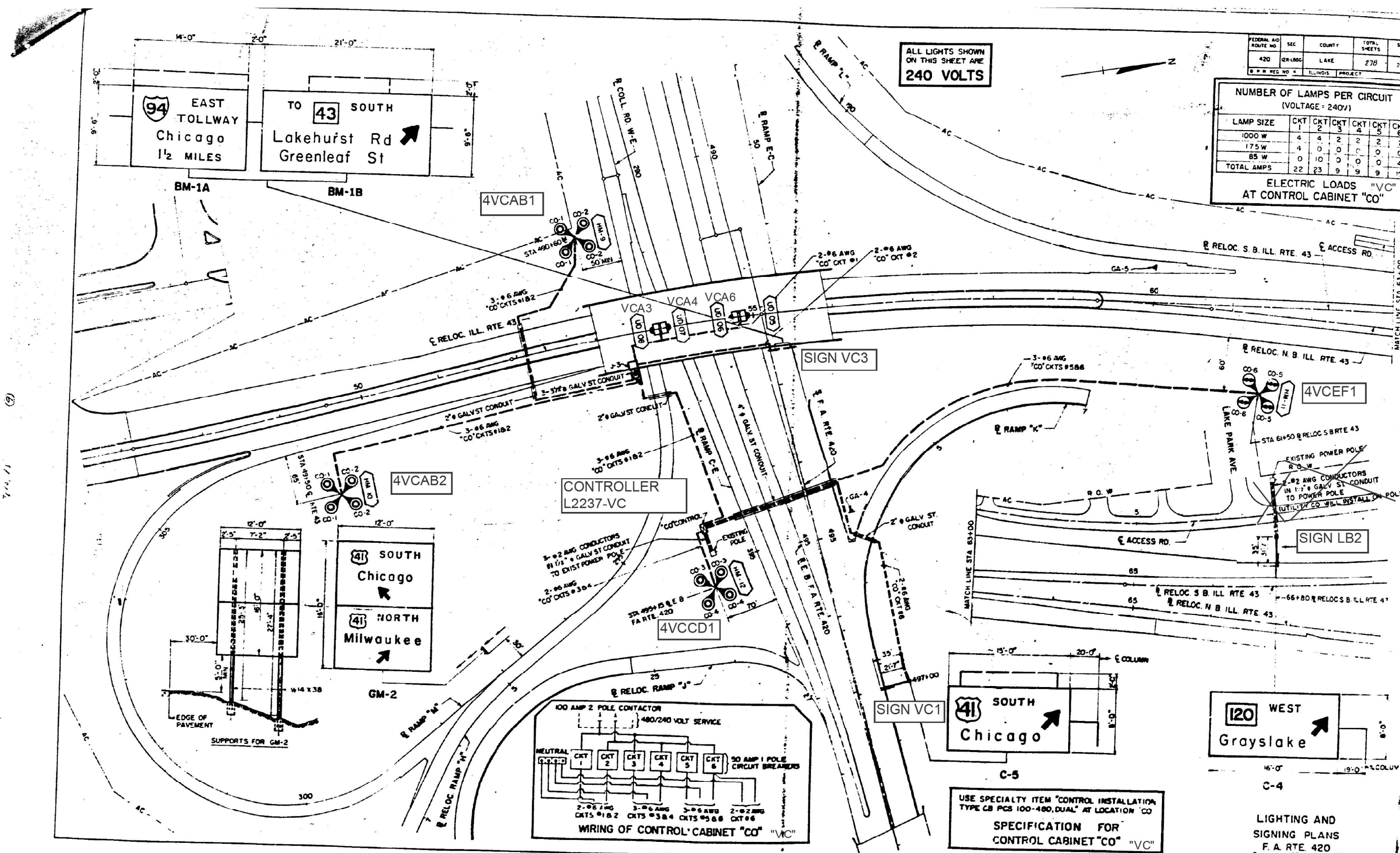
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	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILT LIGHTING PLANS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	31
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M92	

LT-21



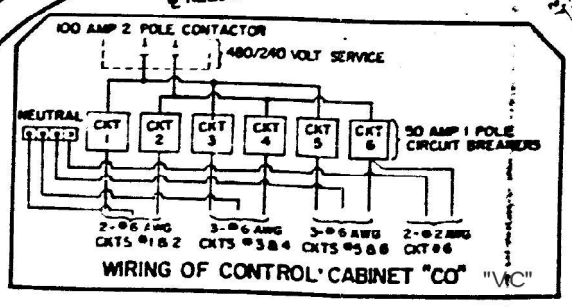
ALL LIGHTS SHOWN ON THIS SHEET ARE 240 VOLTS

FEDERAL AID ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
420	CR-L88	LAKE	278	2
REG NO 4	ILLINOIS	PROJECT		

NUMBER OF LAMPS PER CIRCUIT (VOLTAGE = 240V)

LAMP SIZE	CKT 1	CKT 2	CKT 3	CKT 4	CKT 5	CKT 6
1000 W	4	4	2	2	2	2
175 W	4	0	0	0	0	0
85 W	0	10	0	0	0	0
TOTAL AMPS	22	23	9	9	9	9

ELECTRIC LOADS "VC" AT CONTROL CABINET "CO"



FOR INFORMATION ONLY

USE SPECIALTY ITEM "CONTROL INSTALLATION TYPE CB PCS 100-480, DUAL" AT LOCATION "CO"

SPECIFICATION FOR CONTROL CABINET "CO" "VC"

LIGHTING AND SIGNING PLANS F.A. RTE 420

MODEL: Default
 FILE NAME: \\0101P010001\48601\Task - Order - 13162\MP2104_CADD\CADD_Sheets\162102-ctrl-hbr-22.dwg
 SINGH + ASSOCIATES INC. CONSULTING ENGINEERS



USER NAME = gshowers	DESIGNED - HP	REVISED -
PLOT SCALE = 2" / 1'	DRAWN - HP	REVISED -
PLOT DATE = 10/22/2021	CHECKED - RP/MG	REVISED -
	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

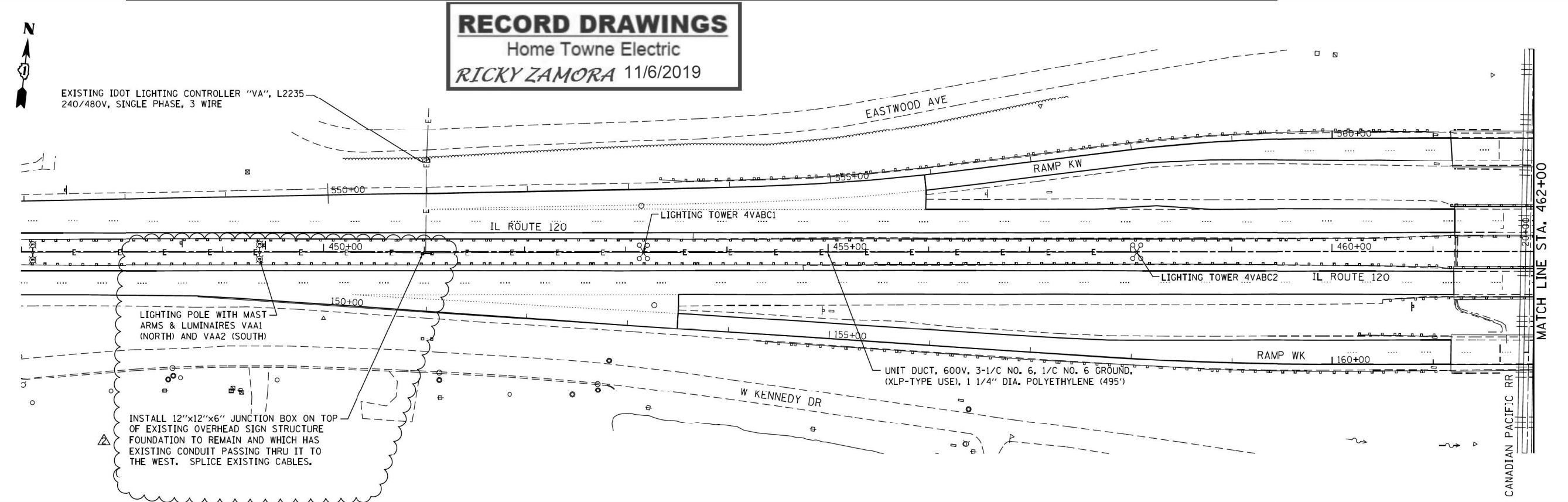
EXISTING AS-BUILT LIGHTING PLANS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	32
				CONTRACT NO. 62M92
ILLINOIS FED. AID PROJECT				

LT-22

RECORD DRAWINGS
Home Towne Electric
RICKY ZAMORA 11/6/2019

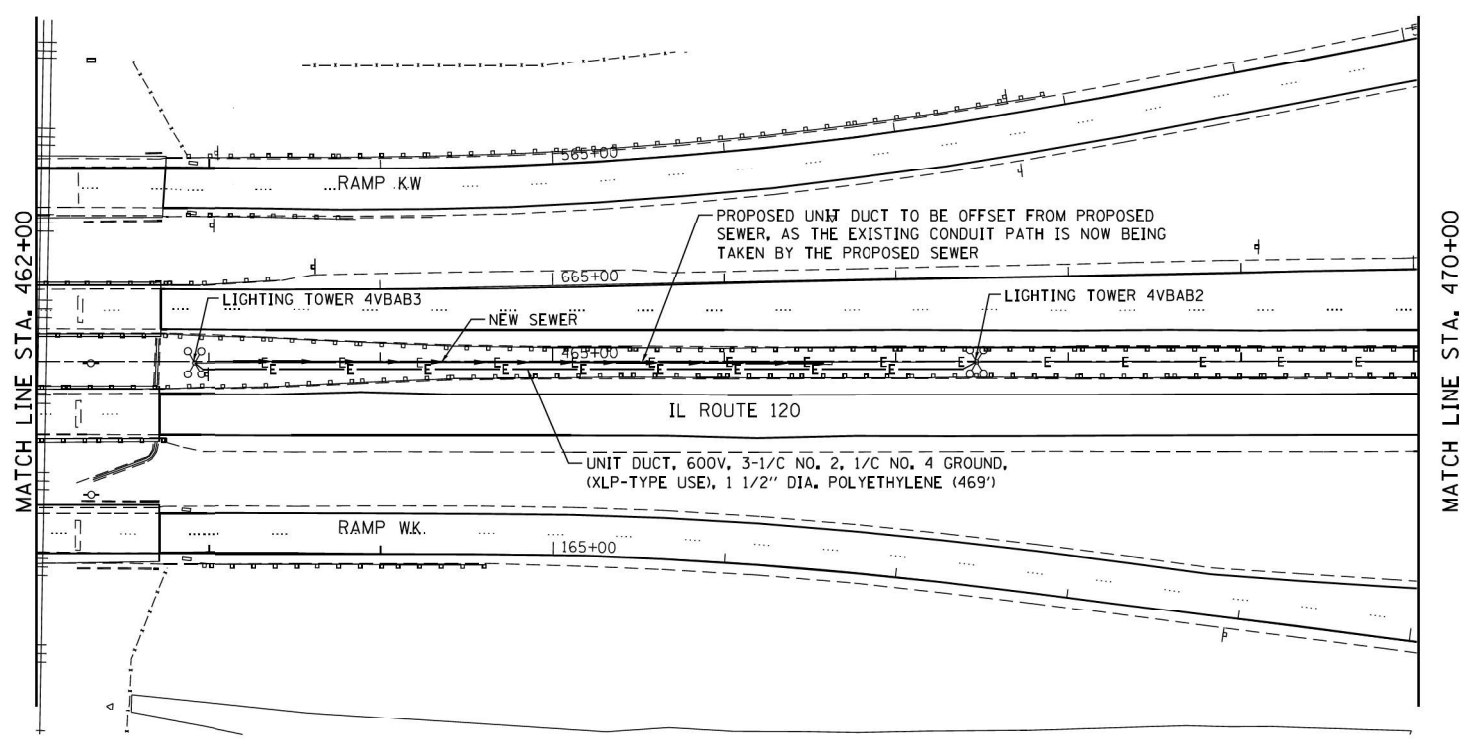


LIGHTING POLE WITH MAST ARMS & LUMINAIRES VAA1 (NORTH) AND VAA2 (SOUTH)

INSTALL 12"x12"x6" JUNCTION BOX ON TOP OF EXISTING OVERHEAD SIGN STRUCTURE FOUNDATION TO REMAIN AND WHICH HAS EXISTING CONDUIT PASSING THRU IT TO THE WEST. SPLICE EXISTING CABLES.

LEGEND

- EXISTING OVERHEAD SIGN
- EXISTING UNDERGROUND ELECTRIC
- PROPOSED UNDERGROUND ELECTRIC
- EXISTING ELECTRIC HANDHOLE
- EXISTING PRIVATE UTILITY HANDHOLE
- EXISTING JUNCTION BOX
- PROPOSED JUNCTION BOX
- EXISTING UNDERPASS LUMINARE
- EXISTING TRAFFIC SIGNAL
- EXISTING SPLICE BOX
- EXISTING CONTROLLER
- EXISTING LIGHTING UNIT (2 LUMINAIRE)
- EXISTING LIGHTING TOWER (4 LUMINAIRE)
- EXISTING COMBINED MAST ARM
- EXISTING TOWER FOUNDATION



FOR INFORMATION ONLY



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 1/28/2017 10:58:41 PM

GROEF
8501 W. Higgins Road Suite 200
Chicago, Illinois 60631
(773) 399-0112

USER NAME = 0766	DESIGNED -	REVISED - 09/28/2017
PLOT SCALE = 100.0000' / 1" =	DRAWN -	REVISED -
PLOT DATE = 9/28/2017	CHECKED -	REVISED -
	DATE 08/26/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET, AND RAMPS
PROPOSED LIGHTING PLANS

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 447+00 TO STA. 470+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	288	62
* 121VB-1&2&12R-1HB-21BR&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

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SINGH
SINGH & ASSOCIATES INC.
CONSULTING ENGINEERS

USER NAME = gshowers	DESIGNED - HP	REVISED -
PLOT SCALE = 2' / 1" =	DRAWN - HP	REVISED -
PLOT DATE = 10/22/2021	CHECKED - RP/MG	REVISED -
	DATE 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILT LIGHTING PLANS

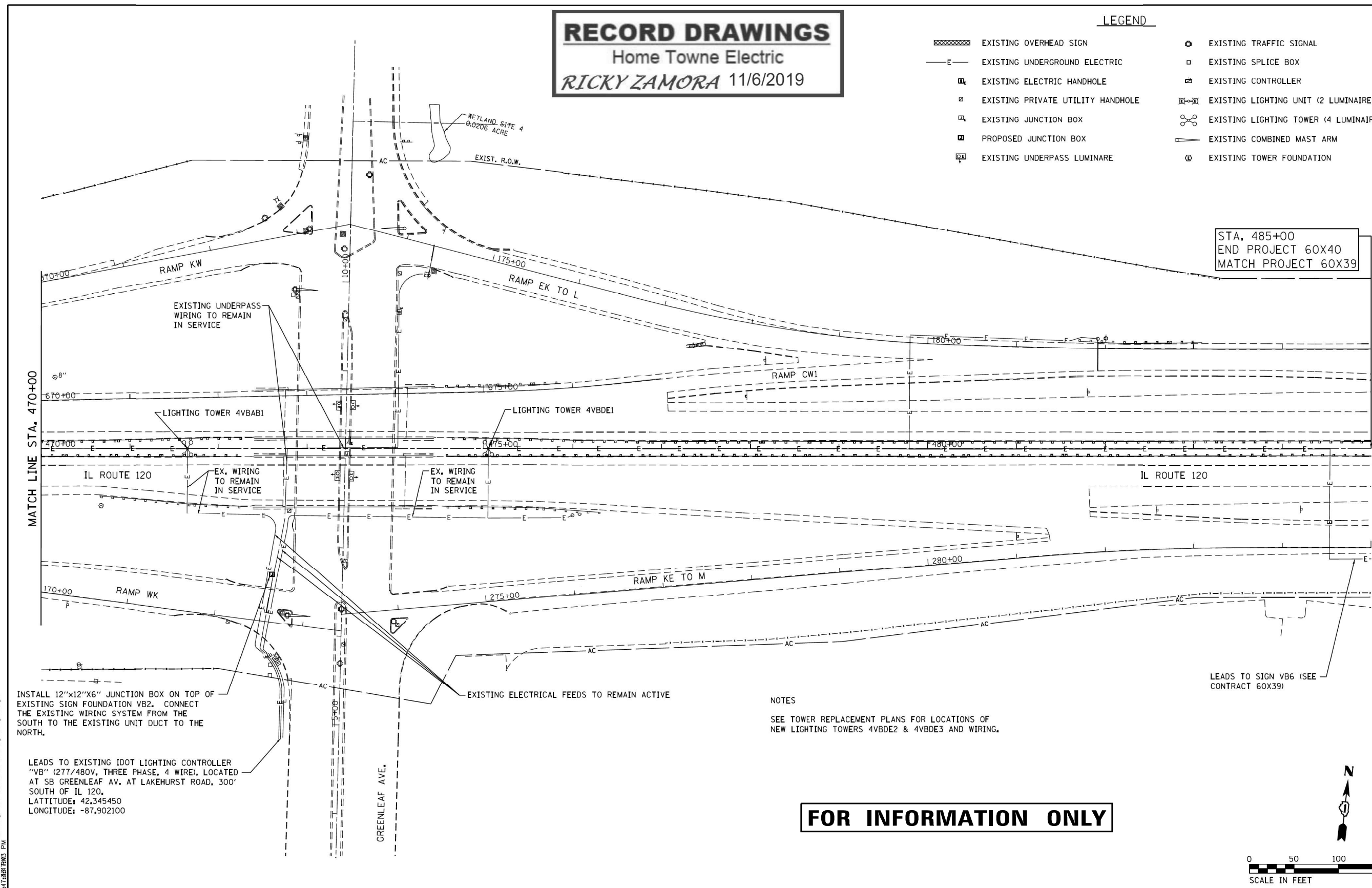
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	33
			CONTRACT NO. 62M92	
ILLINOIS FED. AID PROJECT				

RECORD DRAWINGS
Home Towne Electric
RICKY ZAMORA 11/6/2019

LEGEND

- EXISTING OVERHEAD SIGN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING ELECTRIC HANDHOLE
- EXISTING PRIVATE UTILITY HANDHOLE
- EXISTING JUNCTION BOX
- PROPOSED JUNCTION BOX
- EXISTING UNDERPASS LUMINAIRE
- EXISTING TRAFFIC SIGNAL
- EXISTING SPLICE BOX
- EXISTING CONTROLLER
- EXISTING LIGHTING UNIT (2 LUMINAIRE)
- EXISTING LIGHTING TOWER (4 LUMINAIRE)
- EXISTING COMBINED MAST ARM
- EXISTING TOWER FOUNDATION



STA. 485+00
END PROJECT 60X40
MATCH PROJECT 60X39

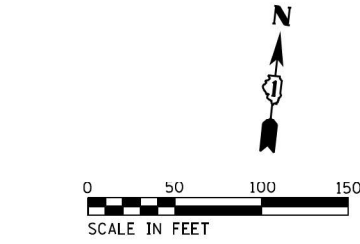
INSTALL 12"x12"x6" JUNCTION BOX ON TOP OF EXISTING SIGN FOUNDATION VB2. CONNECT THE EXISTING WIRING SYSTEM FROM THE SOUTH TO THE EXISTING UNIT DUCT TO THE NORTH.

LEADS TO EXISTING IDOT LIGHTING CONTROLLER "VB" (277/480V, THREE PHASE, 4 WIRE), LOCATED AT SB GREENLEAF AV. AT LAKEHURST ROAD, 300' SOUTH OF IL 120.
LATITUDE: 42.345450
LONGITUDE: -87.902100

EXISTING ELECTRICAL FEEDS TO REMAIN ACTIVE

NOTES
SEE TOWER REPLACEMENT PLANS FOR LOCATIONS OF NEW LIGHTING TOWERS 4VBDE2 & 4VBDE3 AND WIRING.

FOR INFORMATION ONLY



GR&E 8501 N. Higgins Road Suite 280 Chicago, Illinois 60631 1773 399-0112	USER NAME = #USER*	DESIGNED - JO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS PROPOSED LIGHTING PLANS	F.A.P. RTE. 333	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 63
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	PLOT DATE = 3/21/2017 - 3:47:43 PM	DATE - 08/26/2015	REVISED -			ILLINOIS FED. AID PROJECT				

SINGH SINGH & ASSOCIATES INC. CONSULTING ENGINEERS	USER NAME = gshowers	DESIGNED - HP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AS-BUILT LIGHTING PLANS	F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 34
	PLOT SCALE = 2' / in.	CHECKED - RP/MG	REVISED -			CONTRACT NO. 62M92				
	PLOT DATE = 10/22/2021	DATE - 10/22/2021	REVISED -			ILLINOIS FED. AID PROJECT				

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 3/21/2017 - 3:47:43 PM

LT-24

GENERAL NOTES:

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

CONTACT NOTES:

- CALL JULIE OR DIGGER FOR CABLE LOCATES, CALL IDOT EMC AT (708) 524-2145 FOR IDOT MAINTAINED CABLE LOCATES. THE PROPOSED TOWER FOUNDATIONS & PROPOSED UNIT DUCTS SHOULD ONLY BE INSTALLED AFTER THE LOCATES HAVE BEEN COMPLETED.

REMOVAL NOTES:

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

SYMBOL LEGEND:

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

ABBREVIATIONS:

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

RECORD DRAWINGS
Home Towne Electric
RICKY ZAMORA 11/6/2019

FOR INFORMATION ONLY

E-L1

	USER NAME = kkhhan	DESIGNED - HM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SYMBOLS LEGEND, GENERAL NOTES AND REMOVAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000 ' / in.	DRAWN - GJ	REVISED -			333	12(VB-1&2) & 12R-1HB-2(BR)	LAKE	288	75
DELTA ENGINEERING GROUP, LLC	PLOT DATE = 2/6/2017	CHECKED - HS	REVISED -	SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			

LT-25

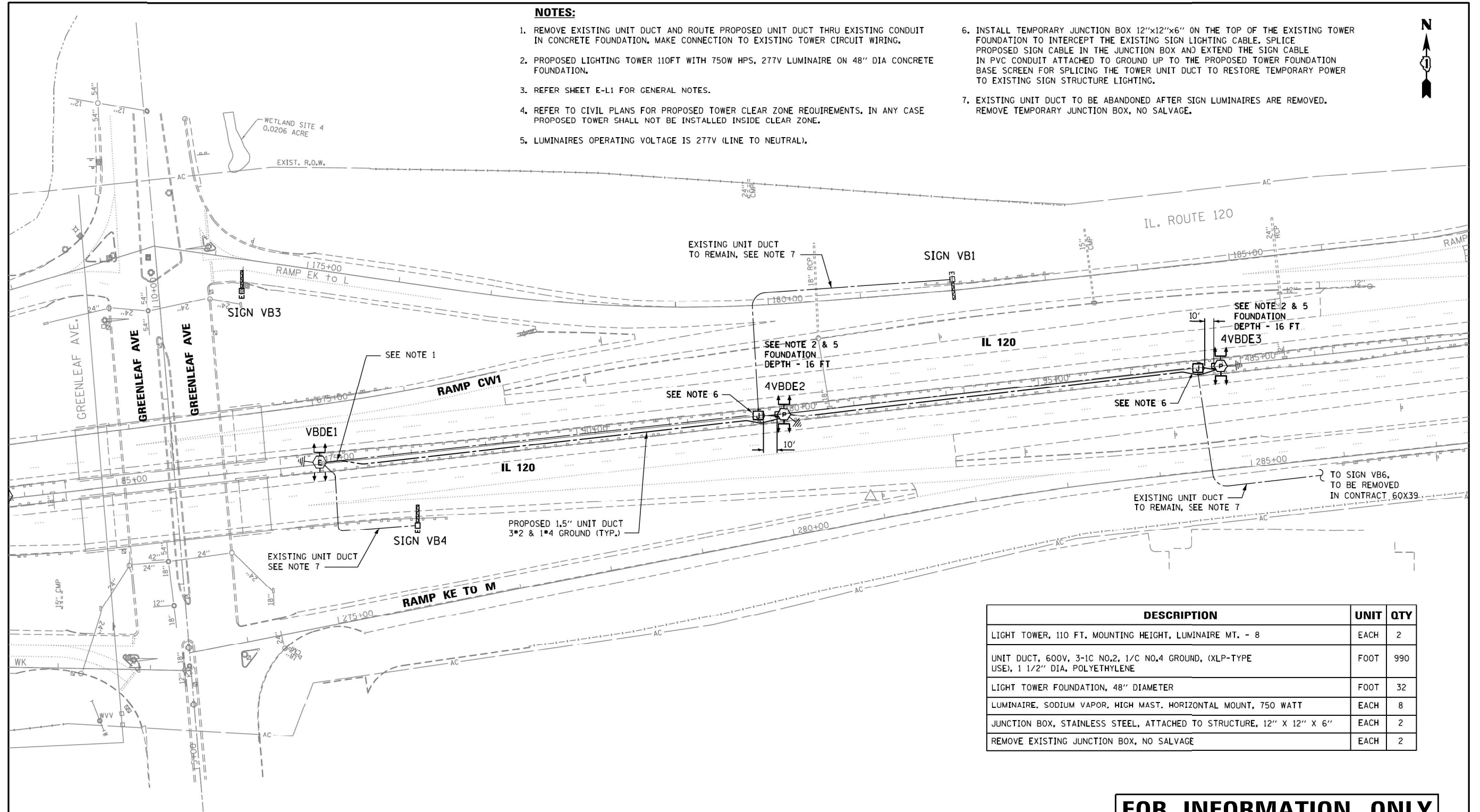
	USER NAME = gshowers	DESIGNED - HP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AS-BUILT LIGHTING PLANS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2' / in.	DRAWN - HP	REVISED -			333	2020-218-L	LAKE	63	35
SINGH + ASSOCIATES INC. CONSULTING ENGINEERS	PLOT DATE = 10/22/2021	CHECKED - RP/MG	REVISED -	SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			

MODEL: Default
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NOTES:

1. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION, MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
2. PROPOSED LIGHTING TOWER 110FT WITH 750W HPS, 277V LUMINAIRE ON 48" DIA CONCRETE FOUNDATION.
3. REFER SHEET E-L1 FOR GENERAL NOTES.
4. REFER TO CIVIL PLANS FOR PROPOSED TOWER CLEAR ZONE REQUIREMENTS. IN ANY CASE PROPOSED TOWER SHALL NOT BE INSTALLED INSIDE CLEAR ZONE.
5. LUMINAIRES OPERATING VOLTAGE IS 277V (LINE TO NEUTRAL).

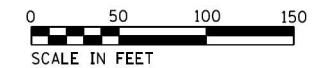
6. INSTALL TEMPORARY JUNCTION BOX 12"x12"x6" ON THE TOP OF THE EXISTING TOWER FOUNDATION TO INTERCEPT THE EXISTING SIGN LIGHTING CABLE. SPLICE PROPOSED SIGN CABLE IN THE JUNCTION BOX AND EXTEND THE SIGN CABLE IN PVC CONDUIT ATTACHED TO GROUND UP TO THE PROPOSED TOWER FOUNDATION BASE SCREEN FOR SPLICING THE TOWER UNIT DUCT TO RESTORE TEMPORARY POWER TO EXISTING SIGN STRUCTURE LIGHTING.
7. EXISTING UNIT DUCT TO BE ABANDONED AFTER SIGN LUMINAIRES ARE REMOVED. REMOVE TEMPORARY JUNCTION BOX, NO SALVAGE.



DESCRIPTION	UNIT	QTY
LIGHT TOWER, 110 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8	EACH	2
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	990
LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	32
LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750 WATT	EACH	8
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	2
REMOVE EXISTING JUNCTION BOX, NO SALVAGE	EACH	2

FOR INFORMATION ONLY

RECORD DRAWINGS
Home Towne Electric
RICKY ZAMORA 11/6/2019

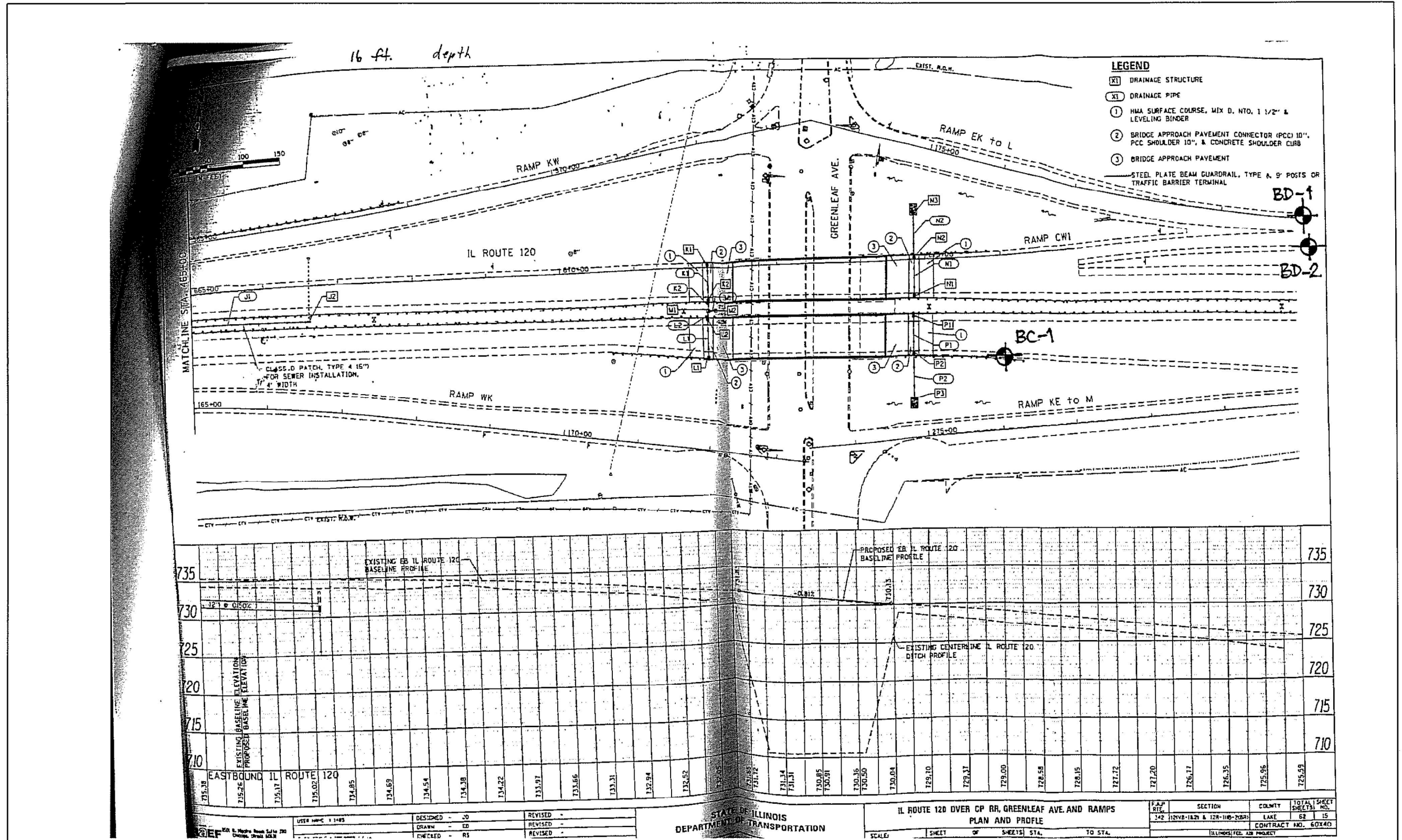


	USER NAME = kkhari	DESIGNED - HM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING PLAN IL 120 / GREENLEAF ROAD - SHEET 1 OF 1	F.A. RTE. 333	SECTION 12(VB-1&2) & 12R-1(HB-2)(BR)	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 77
	PLOT SCALE = 1/8" = 1' / in.	CHECKED - HS	REVISED -			SCALE:	SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 60X40		
DELTA ENGINEERING GROUP, LLC	PLOT DATE = 3/14/2017	DATE = 12-09-2016	REVISED -							

LT-26

	USER NAME = gshowers	DESIGNED - HP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AS-BUILT LIGHTING PLANS	F.A. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 36
	PLOT SCALE = 2" = 1' / in.	CHECKED - RP/MG	REVISED -			SCALE:	SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 62M92		
SINGH & ASSOCIATES INC. CONSULTING ENGINEERS	PLOT DATE = 10/22/2021	DATE = 10/22/2021	REVISED -							

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FOR INFORMATION ONLY

	USER NAME = khnan	DESIGNED - HW	REVISED -
DELTA ENGINEERING GROUP, LLC	PLOT SCALE = 1/8" = 1'-0"	DRAWN - GJ	REVISED -
	PLOT DATE = 2/5/2017	CHECKED - HS	REVISED -
		DATE = 12-09-2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF AVE AND RAMPS
PLAN AND PROFILE
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	121VB-1821 & 12R-110-20BR	LAKE	288	78
				CONTRACT NO. 60X40
ILLINOIS FED. AID PROJECT				

	USER NAME = gshowers	DESIGNED - HP	REVISED -
SINGH ASSOCIATES INC. CONSULTING ENGINEERS	PLOT SCALE = 2" = 1'	DRAWN - HP	REVISED -
	PLOT DATE = 10/22/2021	CHECKED - RP/MG	REVISED -
		DATE = 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILT LIGHTING PLANS
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	37
				CONTRACT NO. 62M92
ILLINOIS FED. AID PROJECT				

ROUTE FAP 342 DESCRIPTION RAMP EK TO L LOGGED BY Esposito, Jr.
 SECTION 12(VB-1&2)&12R-1HB-2(BR) LOCATION S 1/2, SEC. 26, TWP. 45, RNG. 11, 3rd PM
 COUNTY Lake DRILLING METHOD CME 750, 3.24" I.D. HSA HAMMER TYPE AUTOMATIC

STRUCT. NO. Station	DEPTH H	BLOW W	UCS S	M O I S T	Surface Water Elev. _____ ft				DEPTH H	BLOW W	UCS S	M O I S T	
					Stream Bed Elev. _____ ft								
BORING NO. <u>BD-2</u>					Groundwater Elev.:								
Station <u>168+10</u>					First Encounter <u>681.6</u> ft ∇								
Offset <u>40.00 ft LT BL</u>					Upon Completion <u>680.6</u> ft ∇								
Ground Surface Elev. <u>721.57</u> ft					After <u>N/A</u> Hrs. <u>N/A</u> ft								
Hard Brown SILTY CLAY				17					4				
									6	4.6	23		
									10	B			
		4							4				
		5	4.8	14					8	6.0	21		
		6	B						13	B			
									4				
		5	4.3	15					7	4.6	21		
		6	B						11	B			
									4		18		
Grades to Stiff in Strength and Consistency									4				
								5	1.5	20			
								7	B				
712.07					692.07								
Very Stiff Gray SILTY CLAY									2				
	8							4	0.7	23			
	8	B	16					4	B				
709.57					688.57								
Hard Brown SILTY CLAY									2				
	5							3	1.4	15			
	7	8.4	20					4	B				
	14	B											
	6							9	5.7	22			
	11	B											
683.57					Medium Dense Brown Coarse SAND								


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

ROUTE FAP 342 DESCRIPTION RAMP EK TO L LOGGED BY Esposito, Jr.
 SECTION 12(VB-1&2)&12R-1HB-2(BR) LOCATION S 1/2, SEC. 26, TWP. 45, RNG. 11, 3rd PM
 COUNTY Lake DRILLING METHOD CME 750, 3.24" I.D. HSA HAMMER TYPE AUTOMATIC

STRUCT. NO. Station	DEPTH H	BLOW W	UCS S	M O I S T	Surface Water Elev. _____ ft				DEPTH H	BLOW W	UCS S	M O I S T	
					Stream Bed Elev. _____ ft								
BORING NO. <u>BD-2</u>					Groundwater Elev.:								
Station <u>168+10</u>					First Encounter <u>681.6</u> ft ∇								
Offset <u>40.00 ft LT BL</u>					Upon Completion <u>680.6</u> ft ∇								
Ground Surface Elev. <u>721.57</u> ft					After <u>N/A</u> Hrs. <u>N/A</u> ft								
Medium Dense Brown Coarse SAND (continued)									4				
								6	7		22		
								10					
680.07													
End of Boring													

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

FOR INFORMATION ONLY

 DELTA ENGINEERING GROUP, LLC	USER NAME = kkhon	DESIGNED = HM	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 120 / GREENLEAF AVENUE SOIL BORING LOGS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 100.0000' / in.	DRAWN = GJ	REVISED =			333	12(VB-1&2) & 12R-1HB-2(BR)	LAKE	288	81	
	PLOT DATE = 2/6/2017	CHECKED = HS	REVISED =			CONTRACT NO. 60X40					
						SCALE:		SHEET OF SHEETS		STA. TO STA.	
ILLINOIS FED. AID PROJECT											

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ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
38	93-00109-03-WR	LAKE	103	38

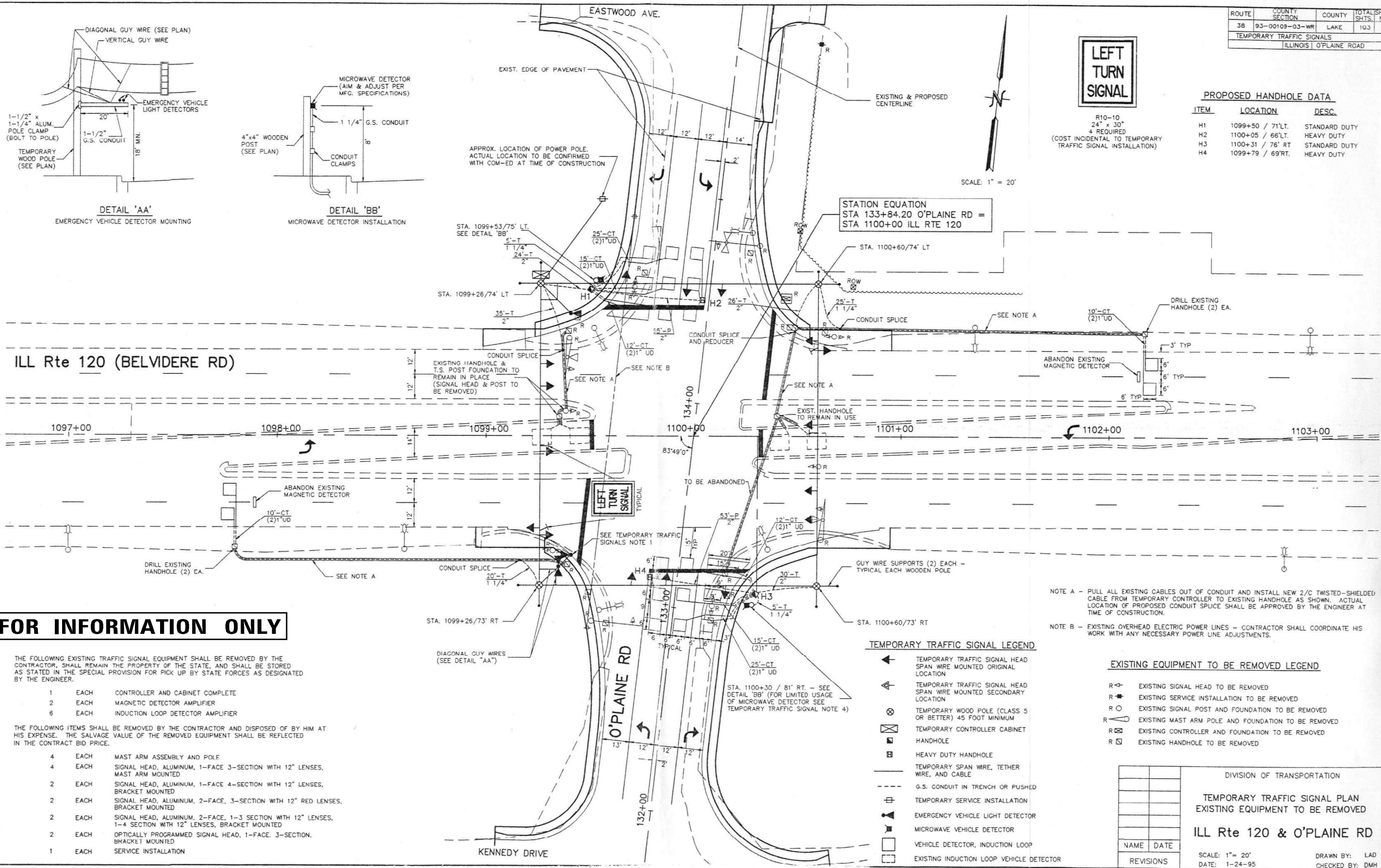
TEMPORARY TRAFFIC SIGNALS
ILLINOIS O'PLAINE ROAD

LEFT TURN SIGNAL

R10-10
24" x 30"
4 REQUIRED
(COST INCIDENTAL TO TEMPORARY TRAFFIC SIGNAL INSTALLATION)

PROPOSED HANDHOLE DATA

ITEM	LOCATION	DESC.
H1	1099+50 / 71'LT.	STANDARD DUTY
H2	1100+05 / 66'LT.	HEAVY DUTY
H3	1100+31 / 76' RT	STANDARD DUTY
H4	1099+79 / 69'RT.	HEAVY DUTY



FOR INFORMATION ONLY

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR. SHALL REMAIN THE PROPERTY OF THE STATE, AND SHALL BE STORED AS STATED IN THE SPECIAL PROVISION FOR PICK UP BY STATE FORCES AS DESIGNATED BY THE ENGINEER.

- 1 EACH CONTROLLER AND CABINET COMPLETE
- 2 EACH MAGNETIC DETECTOR AMPLIFIER
- 6 EACH INDUCTION LOOP DETECTOR AMPLIFIER

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF BY HIM AT HIS EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH MAST ARM ASSEMBLY AND POLE
- 4 EACH SIGNAL HEAD, ALUMINUM, 1-FACE 3-SECTION WITH 12" LENSES, MAST ARM MOUNTED
- 2 EACH SIGNAL HEAD, ALUMINUM, 1-FACE 4-SECTION WITH 12" LENSES, BRACKET MOUNTED
- 2 EACH SIGNAL HEAD, ALUMINUM, 2-FACE, 3-SECTION WITH 12" RED LENSES, BRACKET MOUNTED
- 2 EACH SIGNAL HEAD, ALUMINUM, 2-FACE, 1-3 SECTION WITH 12" LENSES, 1-4 SECTION WITH 12" LENSES, BRACKET MOUNTED
- 2 EACH OPTICALLY PROGRAMMED SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
- 1 EACH SERVICE INSTALLATION

TEMPORARY TRAFFIC SIGNAL LEGEND

- ← TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- ↔ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- ⊗ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MINIMUM
- ⊠ TEMPORARY CONTROLLER CABINET HANDHOLE
- ⊡ HEAVY DUTY HANDHOLE
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- - - G.S. CONDUIT IN TRENCH OR PUSHED
- ⊕ TEMPORARY SERVICE INSTALLATION
- ⊞ EMERGENCY VEHICLE LIGHT DETECTOR
- ⊟ MICROWAVE VEHICLE DETECTOR
- VEHICLE DETECTOR, INDUCTION LOOP
- ⊞ EXISTING INDUCTION LOOP VEHICLE DETECTOR

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- R ⊞ EXISTING SIGNAL HEAD TO BE REMOVED
- R ⊕ EXISTING SERVICE INSTALLATION TO BE REMOVED
- R ⊞ EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- R ⊞ EXISTING MAST ARM POLE AND FOUNDATION TO BE REMOVED
- R ⊞ EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- R ⊞ EXISTING HANDHOLE TO BE REMOVED

DIVISION OF TRANSPORTATION	
TEMPORARY TRAFFIC SIGNAL PLAN	
EXISTING EQUIPMENT TO BE REMOVED	
ILL Rte 120 & O'PLAINE RD	
NAME	DATE
REVISIONS	
SCALE: 1" = 20'	
DATE: 1-24-95	
DRAWN BY: LAD	
CHECKED BY: DMH	

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USER NAME = gshowers	DESIGNED - HP	REVISED -
PLOT SCALE = 2" / in.	DRAWN - HP	REVISED -
PLOT DATE = 10/22/2021	CHECKED - RP/MG	REVISED -
	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILT LIGHTING PLANS

SCALE: SHEET OF SHEETS STA. TO STA.

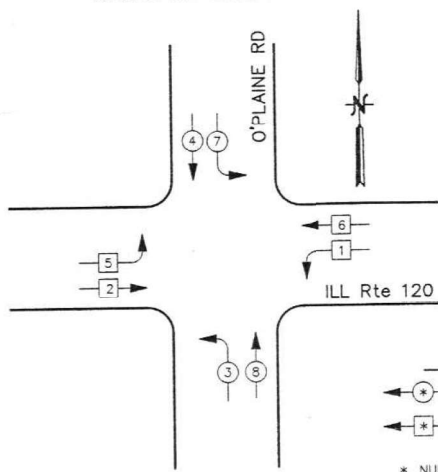
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	41
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				

LT-31

ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
38	93-00109-03-WR	LAKE	103	39
TEMPORARY TRAFFIC SIGNALS				
ILLINOIS O'PLAINE ROAD				

TEMPORARY TRAFFIC SIGNALS CONTROLLER SEQUENCE IV (FOR O'PLAINE RD ONLY)

THE VEHICULAR AND PEDESTRIAN PHASES SHALL BE USED AS DESIGNATED BELOW.



LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE

* NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY TRAFFIC SIGNAL PHASE DESIGNATION DIAGRAM

SINGLE ENTRY - ILL Rte 120 LEGS ONLY - PROTECTED ONLY LEFT TURN PHASING
 DUAL ENTRY - O'PLAINE RD LEGS ONLY - PERMITTED LEFT TURNS

SINGLE ENTRY PHASING NOTES

(FOR THE ILL Rte 120 LEGS ONLY)

- A PHASE IN ONE RING CAN BE SELECTED AND TIMED ALONE IF THERE IS NO DEMAND FOR SERVICE IN A NON-CONFLICTING PHASE ON THE PARALLEL RING ONLY ON THE ILL Rte 120 SIDE OF THE BARRIER.
- A SINGLE PHASE SELECTED AS STATED IN NOTE 1 SHALL ONLY TERMINATE TO THE CONFLICTING PHASE ON THE SAME SIDE OF THE BARRIER OR TO ANY CONCURRENT PHASES ON THE OTHER SIDE OF THE BARRIER.
- ONCE CONCURRENT TIMING OF BOTH RINGS OCCURS ON THE ILL Rte 120 SIDE OF THE BARRIER, THE ASSOCIATED CONCURRENT PHASES SHALL ONLY CLEAR TO OTHER CONCURRENT PHASES ON THE SAME SIDE OF THE BARRIER OR TO ANY CONCURRENT PHASES ON THE OTHER SIDE OF THE BARRIER.
- TERMINATION OF A PHASE SHALL BE WITH A YELLOW INDICATION FOLLOWED BY A RED INDICATION.
- IN FLASHING MODE, ALL VEHICULAR SIGNAL FACES SHALL FLASH RED AND ALL PEDESTRIAN SIGNAL FACES SHALL BE DARK.

DUAL ENTRY PHASING NOTES

(FOR THE O'PLAINE RD LEGS ONLY)

- PHASES SHOWN ON THE CROSS STREET SHALL BE THE ONLY PHASES FOR WHICH STANDARD SEQUENCING IS UTILIZED.

TEMPORARY TRAFFIC SIGNALS EMERGENCY VEHICLE PREEMPTION SEQUENCE NOTES FOR DUAL ENTRY ON O'PLAINE RD LEGS FOR SINGLE ENTRY ON ILL Rte 120 LEGS

TEMPORARY TRAFFIC SIGNAL PROPOSED PRIORITY LANES

PRIORITY LANE INTERVAL	1	2	3
MOVEMENT			

NOTES:

- TERMINATION OF ALL PEDESTRIAN PHASES SHALL INCLUDE A FULL FLASHING "DON'T WALK" INTERVAL.
- IF ALL RED CLEARANCE IS USED IN THE NORMAL SEQUENCE OF OPERATION, IT MUST BE DISPLAYED AFTER THE YELLOW CLEARANCE INTERVAL WHEN ENTERING OR LEAVING THE PREEMPTION SEQUENCE.

DUAL ENTRY NOTES:

- ONCE PREEMPTION HAS BEEN CALLED, TERMINATION OF A DUAL ENTRY PHASE(S) SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATION'S TERMINATION OF A PHASE(S).
- CONTINUATION OR TERMINATION OF ALL RIGHT TURN OVERLAPS SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATION'S CONTINUATION OR TERMINATION OF RIGHT TURN OVERLAPS AS DESCRIBED IN THE CLEARANCE NOTES FOR RIGHT TURN OVERLAPS WITH THE FOLLOWING EXCEPTION: A RIGHT TURN OVERLAP SHALL BE TERMINATED IF THAT OVERLAP IS IN ITS PERMISSIVE OR PROTECTED PHASE IN THE NORMAL SEQUENCE OF OPERATION AND IT IS FOLLOWED BY ITS PROTECTED PHASE IN THE PREEMPTION SEQUENCE.

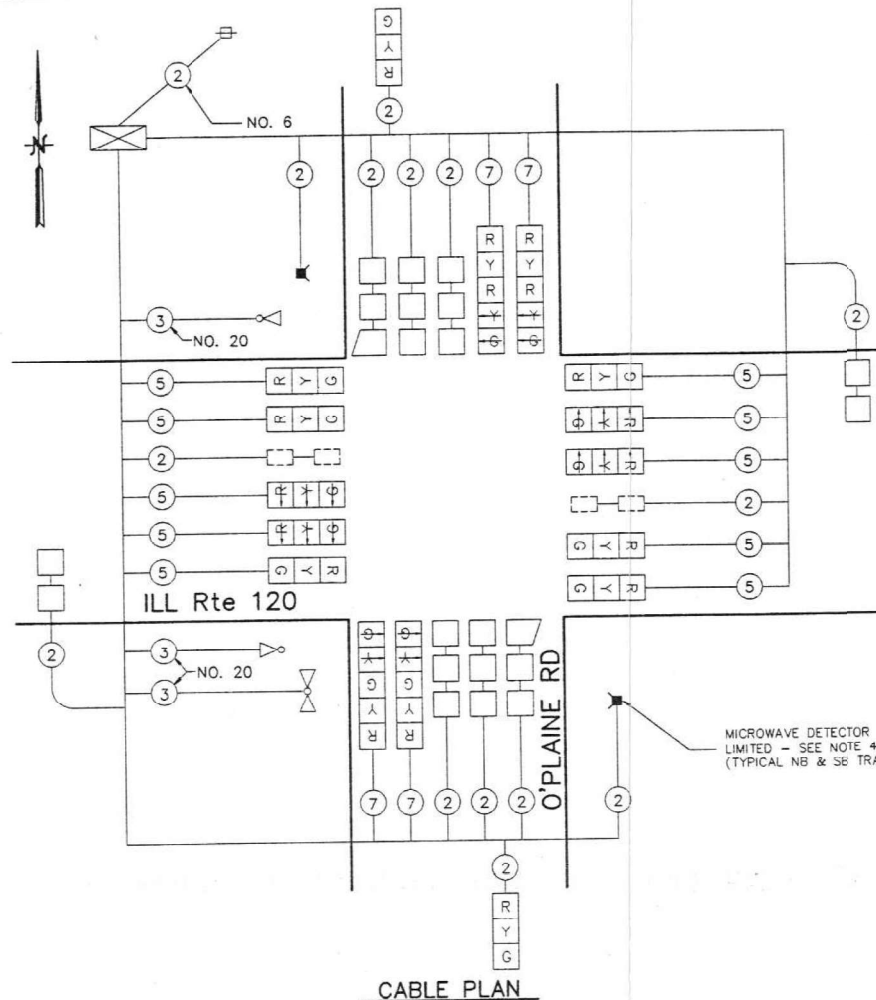
SINGLE ENTRY NOTES:

- ONCE PREEMPTION HAS BEEN CALLED, TERMINATION OF A SINGLE ENTRY PHASE(S) SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATION'S TERMINATION OF A PHASE(S) AS DESCRIBED IN THE SINGLE ENTRY PHASING NOTES.
- A RIGHT TURN OVERLAP SHALL BE TERMINATED IF THAT OVERLAP IS IN ITS PERMISSIVE OR PROTECTED PHASE IN THE NORMAL SEQUENCE OF OPERATION AND IT IS FOLLOWED BY ITS PROTECTED PHASE IN THE PREEMPTION SEQUENCE.
- CONTINUATION OR TERMINATION OF A RIGHT TURN OVERLAP DURING ITS PROTECTED PHASE WHEN TRANSFERRING FROM THE NORMAL SEQUENCE OF OPERATION TO THE PREEMPTION SEQUENCE SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATION'S CONTINUATION OR TERMINATION OF A RIGHT TURN OVERLAP DURING ITS PROTECTED PHASE AS DESCRIBED IN THE CLEARANCE NOTES FOR RIGHT TURN OVERLAPS.

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
824	LN FT	DETECTOR LOOP, TYPE I
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
11	EACH	REMOVE EXISTING HANDHOLE
10	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	L SUM	TEMPORARY TRAFFIC SIGNAL INSTALLATION

FOR INFORMATION ONLY



CABLE PLAN

TEMPORARY SIGNAL CABLE PLAN LEGEND

- TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12"
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SERVICE INSTALLATION
- INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL LOOP DETECTOR CABLE TO BE TWISTED SHIELDED. ALL CONDUCTORS TO BE NO. 14 AWG WIRE UNLESS OTHERWISE NOTED.
- EMERGENCY VEHICLE LIGHT DETECTOR
- VEHICLE DETECTOR, INDUCTION LOOP
- EXISTING INDUCTION LOOP VEHICLE DETECTOR
- MICROWAVE VEHICLE SENSOR

NOTES FOR TEMPORARY TRAFFIC SIGNAL

- ALL EQUIPMENT FOR THE TEMPORARY SIGNAL SHALL BE NEW AND FURNISHED BY THE CONTRACTOR EXCEPT THE EXISTING EMERGENCY VEHICLE DETECTORS AND PHASING UNIT SHALL BE RELOCATED TO THE TEMPORARY SIGNAL INSTALLATION. THE COST OF RELOCATING THIS EQUIPMENT SHALL BE INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNALS.
- CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE MULTI-CYCLE MICROPROCESSOR BASED, CAPABLE OF SUPPLYING 255 SECONDS OF CYCLE LENGTH AND INDIVIDUAL PHASE LENGTH SETTINGS UP TO 99 SECONDS.
- A DIGITAL TIME BASE COORDINATING UNIT SHALL BE SUPPLIED WITH EACH TEMPORARY TRAFFIC SIGNAL. COMPATIBLE TIME BASED COORDINATING UNITS SHALL BE SET IN THE FIELD AS DIRECTED BY THE ENGINEER.
- THE MICROWAVE VEHICLE DETECTORS SHALL BE INSTALLED WHERE SHOWN ON THE PLANS FOR ONLY THE INITIAL STAGES OF CONSTRUCTION ON NB AND SB O'PLAINE RD. THESE DETECTORS SHALL BE REMOVED UPON INSTALLATION OF THE PROPOSED INDUCTION LOOP DETECTORS IN THE FINAL STAGES OF CONSTRUCTION.
- ALL TRAFFIC SIGNAL SECTIONS SHALL BE 12 INCHES. THE TEMPORARY TRAFFIC SIGNAL HEADS SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TRAFFIC SIGNAL HEAD SHALL HAVE IT'S OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD. EACH OF THE CABLES MAY CONTAIN A MAXIMUM OF TWO CABLES SPLICES. THESE SPLICES MUST BE EITHER A TYPE II OR TYPE III SPLICE PER SECTION T421 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
- THE CONTRACTOR SHALL NOTIFY ALL SURROUNDING COMMUNITIES AND FIRE PROTECTION DISTRICTS 72 HOURS IN ADVANCE OF THE EXISTING EMERGENCY VEHICLE SYSTEM BEING TAKEN OUT OF OPERATION. THE SYSTEM MAY BE INOPERATIVE FOR NO LONGER THAN 48 HOURS.
- THE EMERGENCY VEHICLE LIGHT DETECTORS SHALL BE MOUNTED ON STEEL CONDUIT ATTACHED TO THE TEMPORARY POLES AS SHOWN IN DETAIL 'A' - THIS WORK IS TO BE CONSIDERED A PART OF THE TEMPORARY SIGNAL INSTALLATION.
- ALL EXISTING TRAFFIC SIGNAL CONDUITS NOT SHOWN ON THE PLAN SHALL BE ABANDONED AS PART OF THIS WORK.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED, AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE.
- ALL LABOR, MATERIALS, EQUIPMENT AND MAINTENANCE NECESSARY TO CONSTRUCT THE PROPOSED TEMPORARY TRAFFIC SIGNAL INSTALLATION IN COMPLIANCE WITH THESE REQUIREMENTS SHALL BE CONSIDERED INCIDENTAL TO THE BID PRICE OF TEMPORARY TRAFFIC SIGNAL INSTALLATION EXCEPT, DETECTOR LOOPS TYPE I SHALL BE PAID AS A SEPARATE ITEM AND ENERGY CHARGES FOR OPERATION OF THE TRAFFIC SIGNALS SHALL BE PAID FOR BY OTHERS.

DIVISION OF TRANSPORTATION	
TEMPORARY TRAFFIC SIGNAL NOTES & SCHEDULE OF QUANTITIES	
CABLE PLAN	
PHASE DESIGNATION DIAGRAM	
ILL Rte 120 & O'PLAINE RD	
NAME	DATE
REVISIONS	
SCALE: NONE	DRAWN BY: LAD
DATE: 1/24/95	CHECKED BY: DMH

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USER NAME = gshowers	DESIGNED - HP	REVISED -
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PLOT DATE = 10/22/2021	CHECKED - RP/MG	REVISED -
	DATE - 10/22/2021	REVISED -

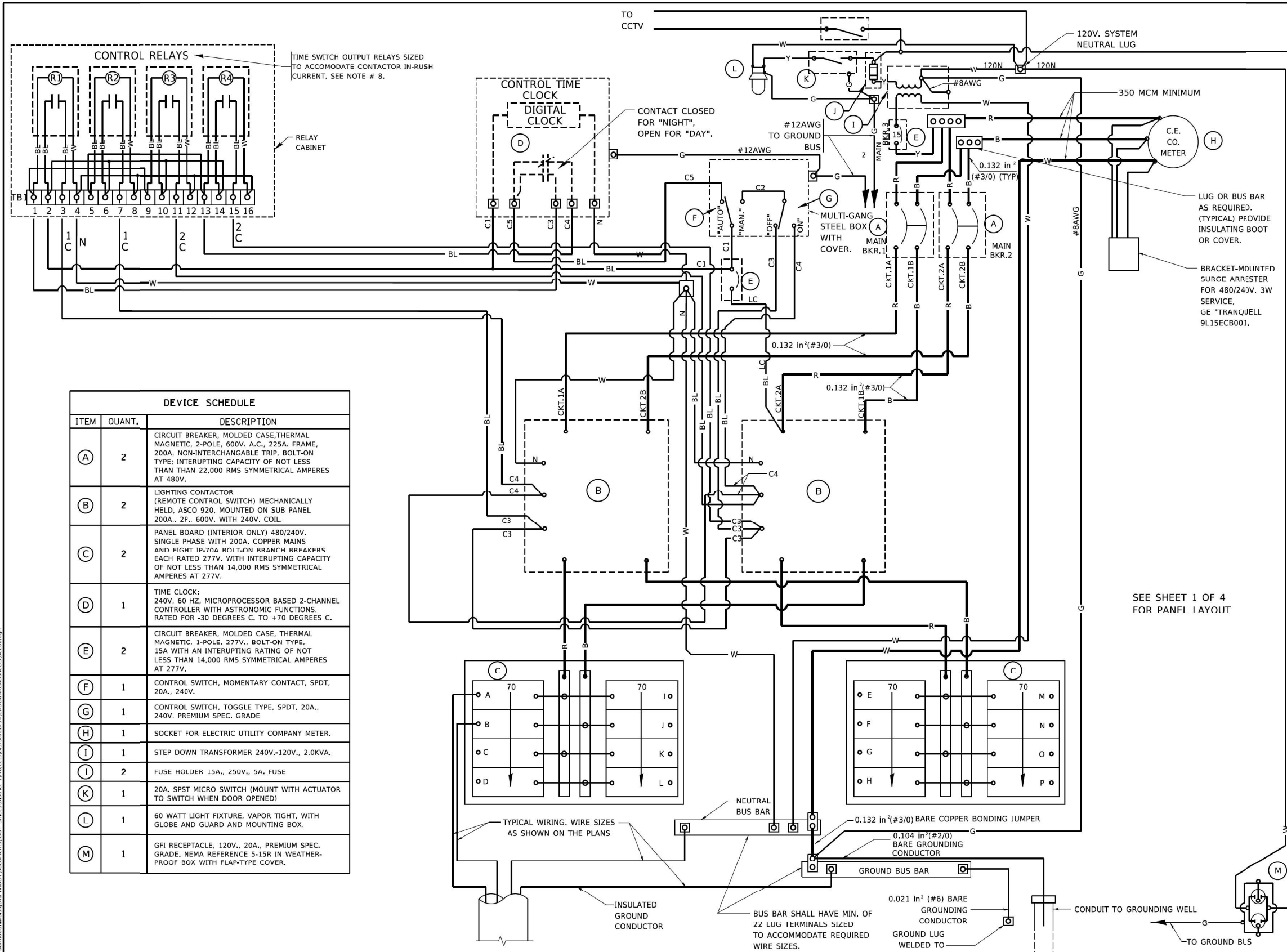
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILT LIGHTING PLANS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 333	SECTION 2020-218-L	COUNTY LAKE	TOTAL SHEETS 63	SHEET NO. 42
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				

LT-32



DEVICE SCHEDULE		
ITEM	QUANT.	DESCRIPTION
(A)	2	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 600V, A.C., 225A, FRAME, 200A, NON-INTERCHANGABLE TRIP, BOLT-ON TYPE; INTERRUPTING CAPACITY OF NOT LESS THAN 22,000 RMS SYMMETRICAL AMPERES AT 480V.
(B)	2	LIGHTING CONTACTOR (REMOTE CONTROL SWITCH) MECHANICALLY HELD, ASCO 920, MOUNTED ON SUB PANEL 200A., 2P., 600V. WITH 240V. COIL.
(C)	2	PANEL BOARD (INTERIOR ONLY) 480/240V, SINGLE PHASE WITH 200A, COPPER MAINS AND EIGHT IP-70A BOLT-ON BRANCH BREAKERS, EACH RATED 277V. WITH INTERRUPTING CAPACITY OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V.
(D)	1	TIME CLOCK: 240V, 60 HZ, MICROPROCESSOR BASED 2-CHANNEL CONTROLLER WITH ASTRONOMIC FUNCTIONS, RATED FOR -30 DEGREES C. TO +70 DEGREES C.
(E)	2	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 277V., BOLT-ON TYPE, 15A WITH AN INTERRUPTING RATING OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V.
(F)	1	CONTROL SWITCH, MOMENTARY CONTACT, SPDT, 20A., 240V.
(G)	1	CONTROL SWITCH, TOGGLE TYPE, SPDT, 20A., 240V. PREMIUM SPEC. GRADE.
(H)	1	SOCKET FOR ELECTRIC UTILITY COMPANY METER.
(I)	1	STEP DOWN TRANSFORMER 240V.-120V., 2.0KVA.
(J)	2	FUSE HOLDER 15A., 250V., 5A. FUSE
(K)	1	20A. SPST MICRO SWITCH (MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR OPENED)
(L)	1	60 WATT LIGHT FIXTURE, VAPOR TIGHT, WITH GLOBE AND GUARD AND MOUNTING BOX.
(M)	1	GFI RECEPTACLE, 120V., 20A., PREMIUM SPEC. GRADE, NEMA REFERENCE 5-15R IN WEATHER-PROOF BOX WITH FLAP-TYPE COVER.

- NOTES:**
- ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE PERMANENT SELF STICKING TAGS. DEVICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMEPLATES ATTACHED TO ENCLOSURES WITH SCREWS. NAMEPLATES SHALL BE ENGRAVED TO CORRESPOND TO DESIGNATIONS ON THE DRAWINGS. INTERNAL CABINET WIRING SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER BY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END. IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURER.
 - ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
 R = RED Y = YELLOW
 B = BLACK W = WHITE
 BL = BLUE G = GREEN
 - PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
 - ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
 - ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
 - THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL"
 - SEE CABINET AND FOUNDATION DETAIL SHEET FOR SCHEMATIC DIAGRAM AND DEVICE LAYOUT.
 - CONTROL RELAYS CAN BE ELIMINATED IF THE CONTROL TIME CLOCK OUTPUT CONTACTS ARE RATED FOR CONTACTOR INRUSH CURRENT.

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USER NAME = footej	DESIGNED - G. BRATKIV	REVISED - M. BURNS 07-25-91
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - S. MANLEY 10-11-93
PLOT DATE = 4/19/2019	DATE - 06-30-86	REVISED - R. TOMSONS 03-29-12
		REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING CONTROLLER, BASE MOUNTED
480 VOLT, 200 AMP, (DUAL)**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
E-200 (BE-200)			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

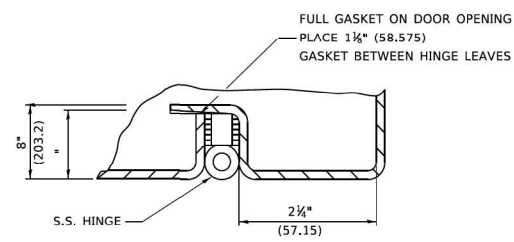
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PLOT SCALE = 2' / in.	CHECKED - RP/MG	REVISED -
PLOT DATE = 10/22/2021	DATE - 10/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

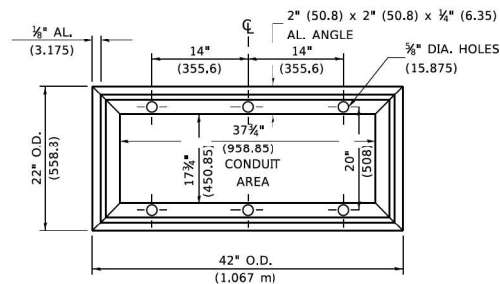
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SCALE: SHEET OF SHEETS STA. TO STA.

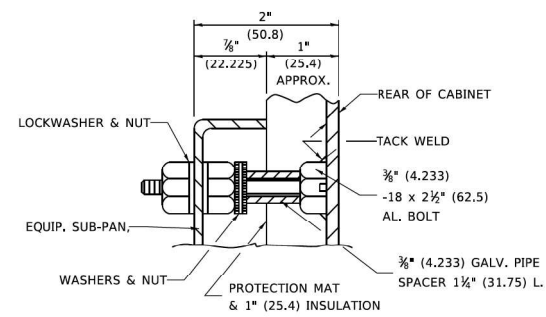
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	44
			CONTRACT NO. 62M92	
ILLINOIS FED. AID PROJECT				



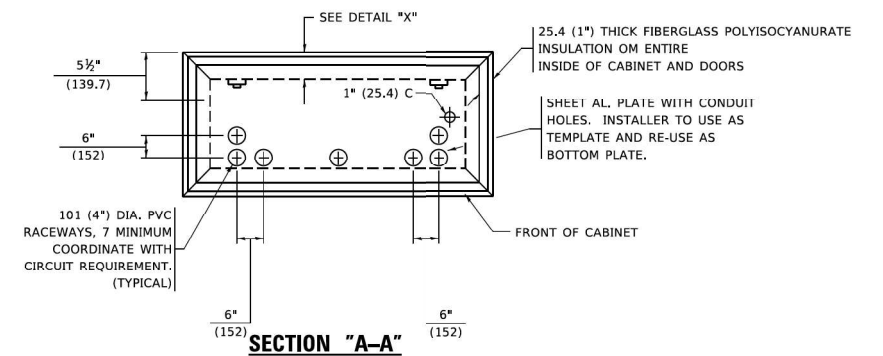
DETAIL "Y"



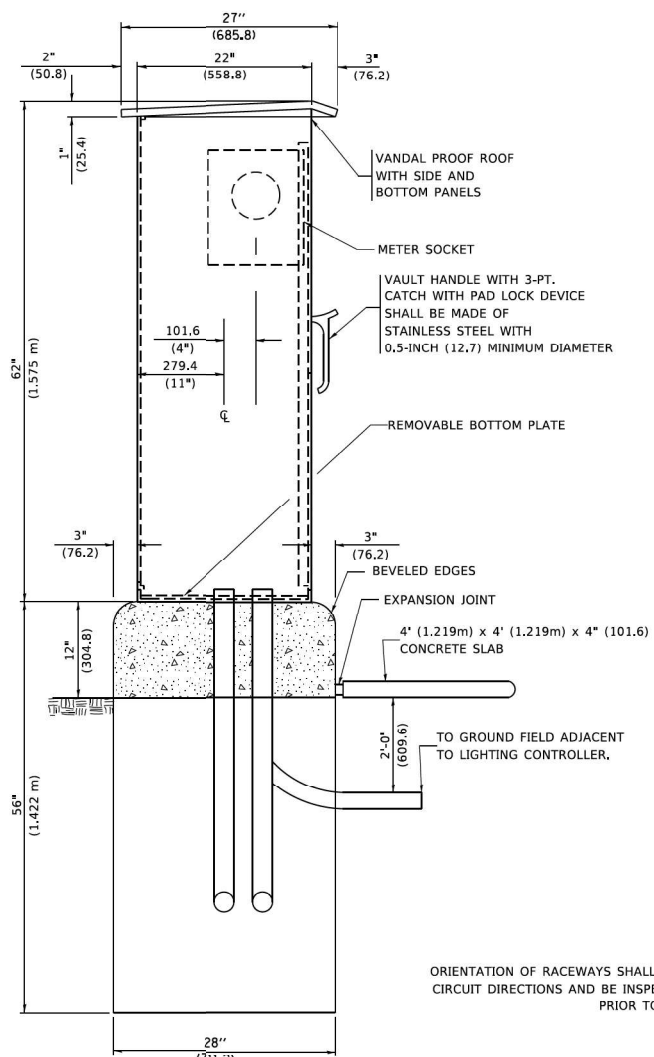
BASE MTG. DETAIL



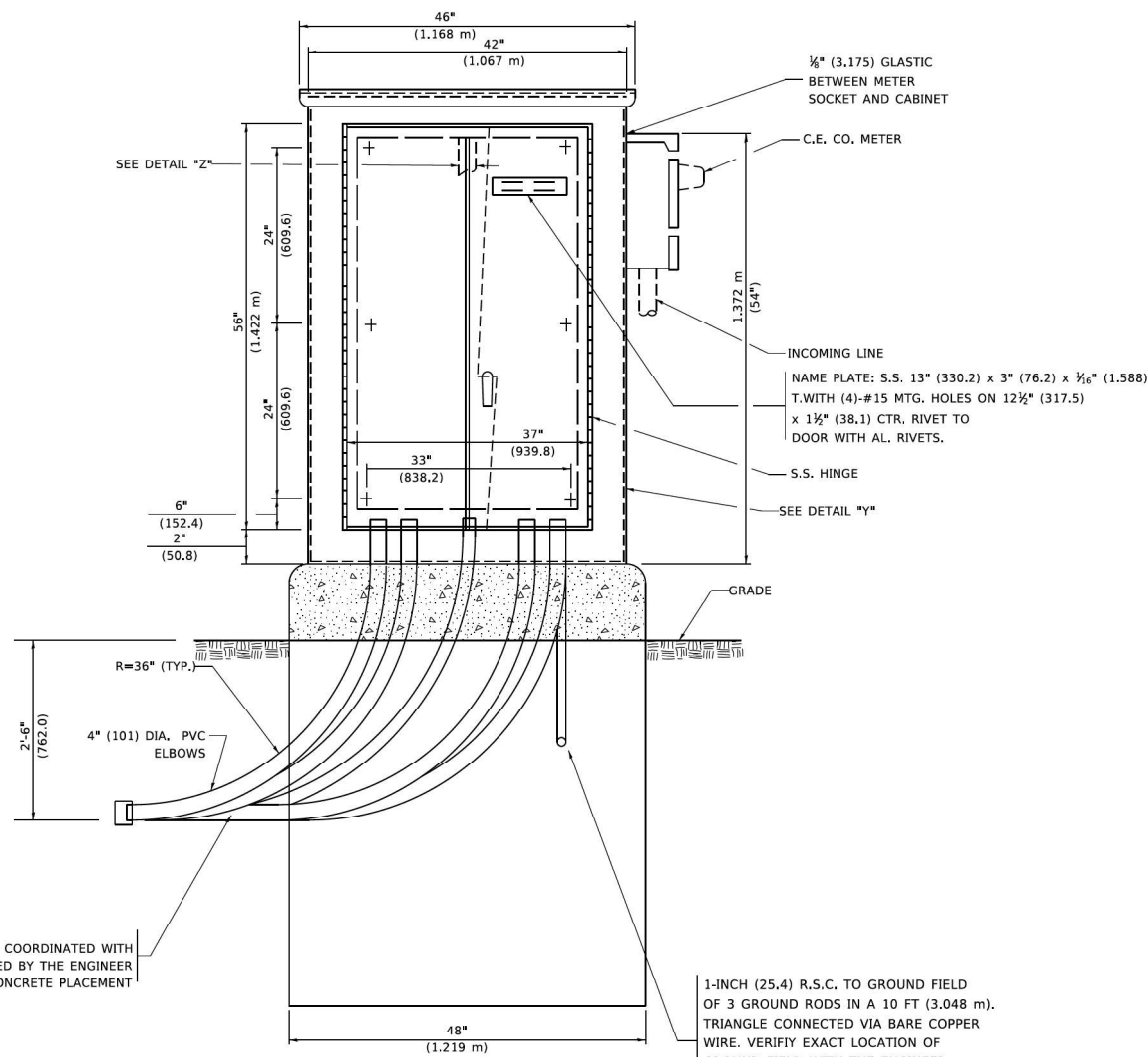
DETAIL "X"



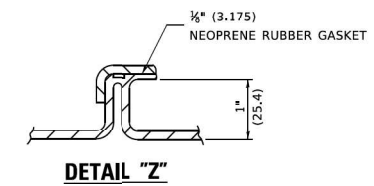
SECTION "A-A"



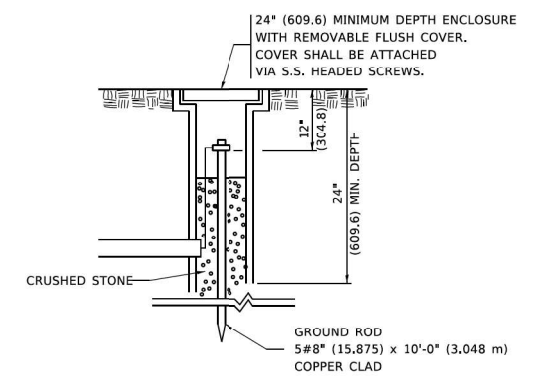
LEFT SIDE ELEVATION



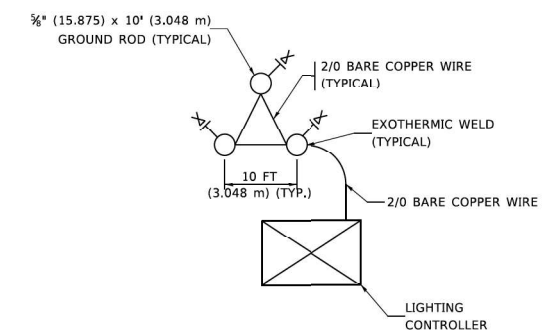
FRONT ELEVATION



DETAIL "Z"



GROUND WELL DETAIL



GROUND FIELD DETAIL

(N.T.S.)

THE CONTRACTOR SHALL VERIFY EXACT LOCATION WITH THE ENGINEER

ORIENTATION OF RACEWAYS SHALL BE COORDINATED WITH CIRCUIT DIRECTIONS AND BE INSPECTED BY THE ENGINEER PRIOR TO CONCRETE PLACEMENT

1-INCH (25.4) R.S.C. TO GROUND FIELD OF 3 GROUND RODS IN A 10 FT (3.048 m). TRIANGLE CONNECTED VIA BARE COPPER WIRE. VERIFY EXACT LOCATION OF GROUND FIELD WITH THE ENGINEER. NO GROUND WELL SHALL BE PLACED IN CONCRETE PAD IN FRONT OF CONTROLLER.

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USER NAME = fofternj	DESIGNED -	REVISED - R. TOMSONS 03-29-12
PLOT SCALE = 50.0000' / in.	DRAWN - CADD	REVISED -
PLOT DATE = 4/19/2019	CHECKED -	REVISED -
	DATE - 12-18-02	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		LIGHTING CONTROLLER, BASE MOUNTED 480 VOLT, 200 AMP, (DUAL)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		SCALE: NONE	SHEET 3 OF 4 SHEETS	STA.	CONTRACT NO.			

E-200

MODEL: Default
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 PROJECT: I:\Projects\1162\M9204-ctk-stn-m9204-03.dwg

SINGH
SINGH + ASSOCIATES INC.
CONSULTING ENGINEERS

USER NAME = gshowers	DESIGNED - HP	REVISED -
PLOT SCALE = 2' / in.	DRAWN - HP	REVISED -
PLOT DATE = 10/22/2021	CHECKED - RP/MG	REVISED -
	DATE - 10/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	45
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				

SD-03

NOTES:

1. CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED ASSEMBLY.
2. ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL.
3. NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH (19.05) HIGH LETTERS FILLED IN BLACK: "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
4. ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
5. CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
6. ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
7. THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
8. METAL MOUNTING PANEL SHALL BE #10 GAUGE GALVANIZED SHEET STEEL FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
9. CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.
10. ALL DEVICES SHALL BE FRONT REMOVABLE.
11. TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY.
12. SET "ON TIME" TO 30 MINUTES AFTER ASTRONOMICAL SUNSET.
13. BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. NEUTRAL BUS SHALL BE PAINTED WHITE. GROUND BUS SHALL BE PAINTED GREEN.
14. ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
15. ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
16. ALL CONTROL WIRING SHALL BE 600V MACHINE TOOL WIRE TYPE MTW.
17. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
18. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:

R - RED	Y - YELLOW
B - BLACK	W - WHITE
BL - BLUE	G - GREEN
19. ALL DIMENSIONS ARE IN MILIMETERS (INCHES) UNLESS OTHERWISE INDICATED.
20. SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE.
21. A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER.

MODEL: Default
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<small>USER NAME = gshowers</small>	<small>DESIGNED - HP</small>	<small>REVISED -</small>	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING CONTROLLER, BASE MOUNTED 480 VOLT, 200 AMP, (DUAL)	<small>F.A. RTE.</small>	<small>SECTION</small>	<small>COUNTY</small>	<small>TOTAL SHEETS</small>	<small>SHEET NO.</small>		
<small>PLOT SCALE = 2" / 1in.</small>	<small>CHECKED - RP/MG</small>	<small>REVISED -</small>			<small>SCALE: NONE</small>	<small>SHEET 4 OF 4 SHEETS</small>	<small>STA.</small>	<small>TO STA.</small>	E-200 (BE-200) CONTRACT NO.		
<small>PLOT DATE = 10/22/2021</small>	<small>DATE - 12-18-02</small>	<small>REVISED -</small>			<small>ILLINOIS FED. AID PROJECT</small>						
<small>ILLINOIS FED. AID PROJECT</small>											

E-200

MODEL: Default
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<small>USER NAME = gshowers</small>	<small>DESIGNED - HP</small>	<small>REVISED -</small>	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS	<small>F.A.P. RTE.</small>	<small>SECTION</small>	<small>COUNTY</small>	<small>TOTAL SHEETS</small>	<small>SHEET NO.</small>			
<small>PLOT SCALE = 2" / 1in.</small>	<small>CHECKED - RP/MG</small>	<small>REVISED -</small>			<small>SCALE:</small>	<small>SHEET</small>	<small>OF</small>	<small>SHEETS</small>	<small>STA.</small>	<small>TO STA.</small>	<small>ILLINOIS FED. AID PROJECT</small>	
<small>PLOT DATE = 10/22/2021</small>	<small>DATE - 10/22/2021</small>	<small>REVISED -</small>			<small>ILLINOIS FED. AID PROJECT</small>							
<small>ILLINOIS FED. AID PROJECT</small>												

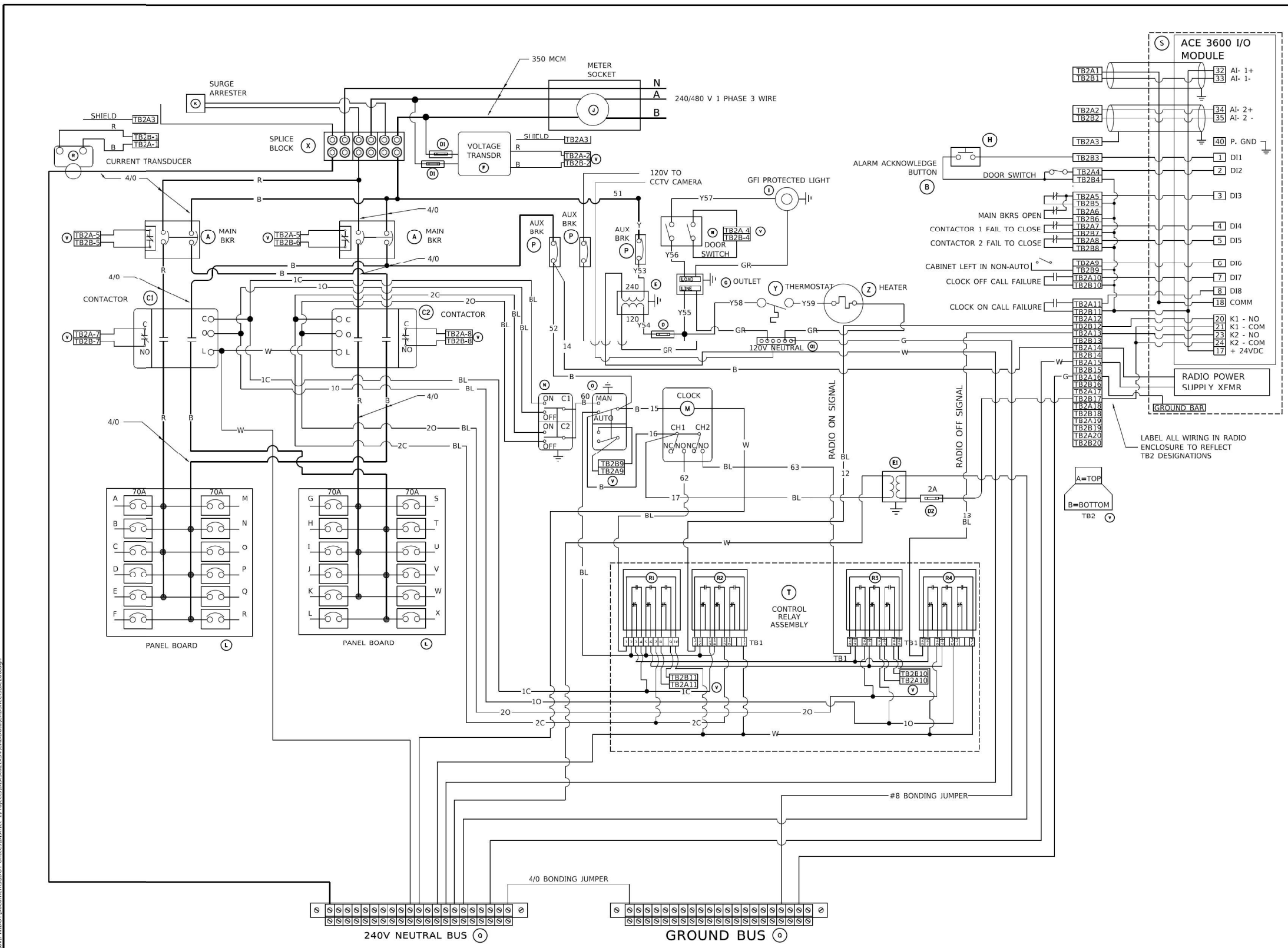
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS

<small>F.A.P. RTE.</small>	<small>SECTION</small>	<small>COUNTY</small>	<small>TOTAL SHEETS</small>	<small>SHEET NO.</small>
	2020-218-L	LAKE	63	46
<small>ILLINOIS FED. AID PROJECT</small>				

CONTRACT NO. 62M92

SD-04



BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2 *	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK - 20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK - 1/2 A FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK - 2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA240/ 120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSDUCER WITH COVER TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/ 240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001KS118H13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T *	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 - 3PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4), QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X *	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEGREE THERMOSTAT
Z	1	375 WATT HEATER

* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BE-206		CONTRACT NO. _____		

MODEL: Default
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SINGH
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CONSULTING ENGINEERS

USER NAME = gshowers	DESIGNED - MG	REVISED -
PLOT SCALE = 2" / in.	DRAWN - HP	REVISED -
PLOT DATE = 10/22/2021	CHECKED - RP	REVISED -
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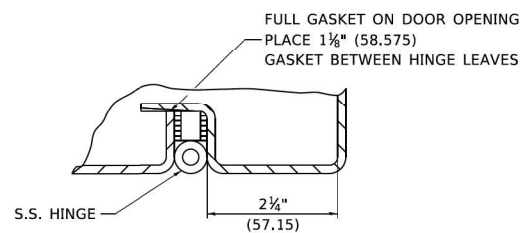
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS

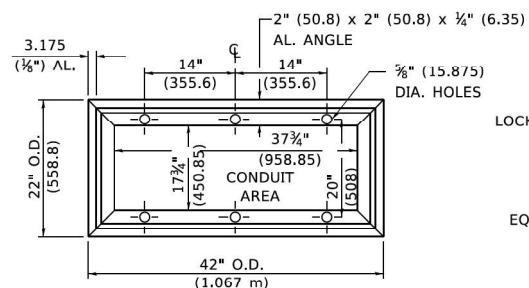
SCALE: SHEET OF SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	48
ILLINOIS FED. AID PROJECT		CONTRACT NO. 62M92		

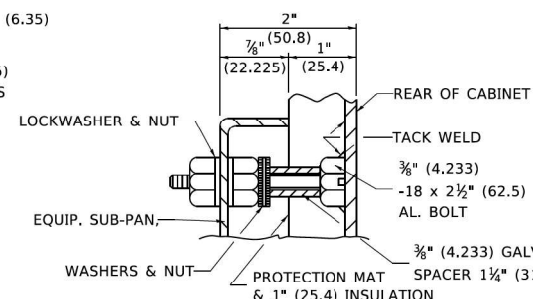
SD-06



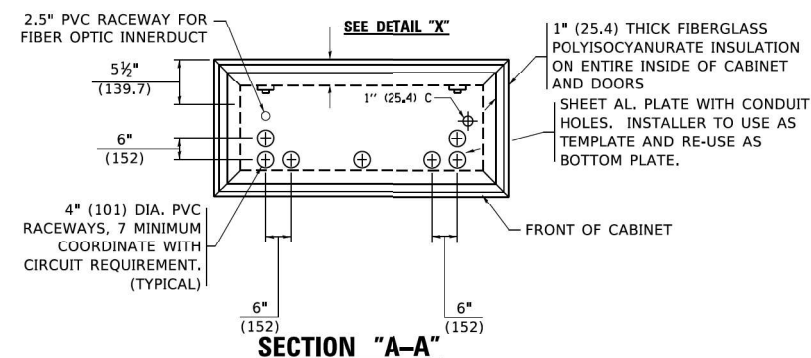
DETAIL "Y"



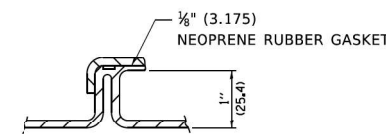
BASE MTG. DETAIL



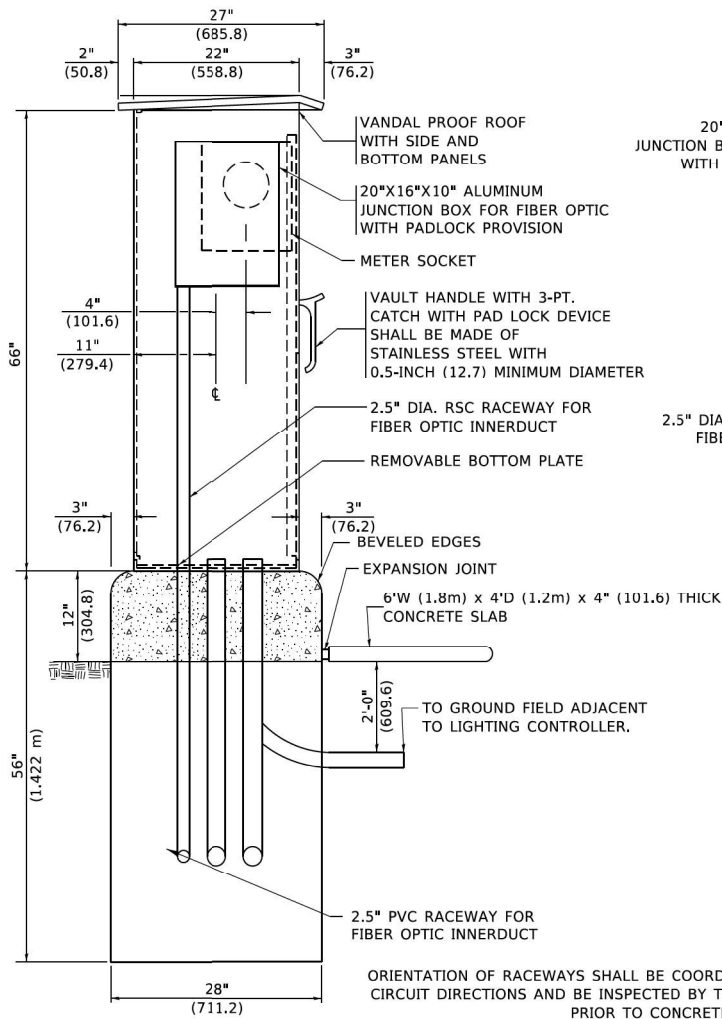
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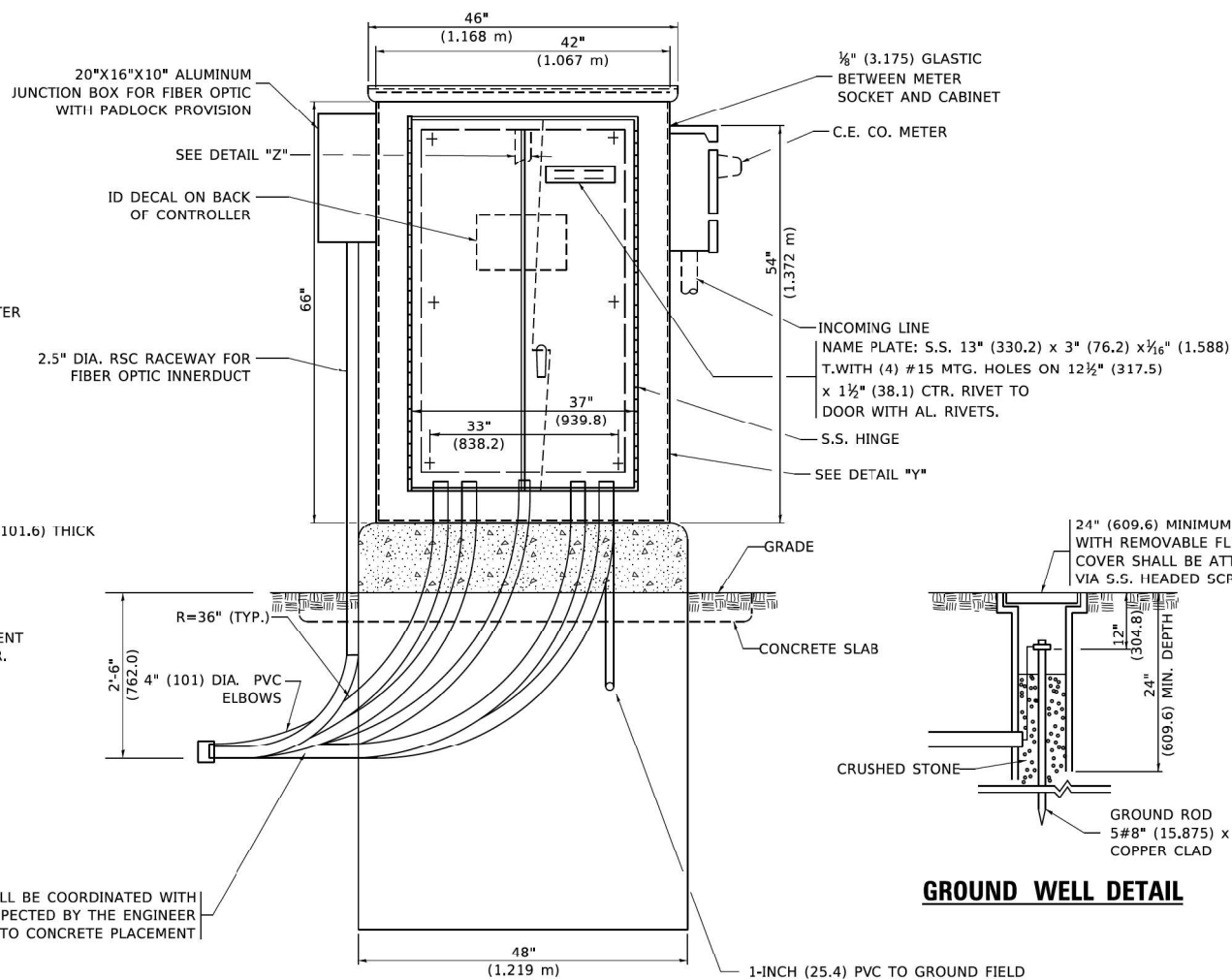
SECTION "A-A"



DETAIL "Z"

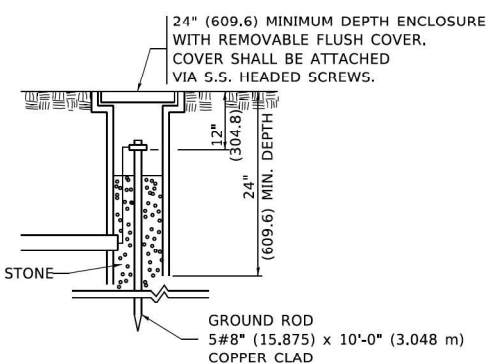


LEFT SIDE ELEVATION

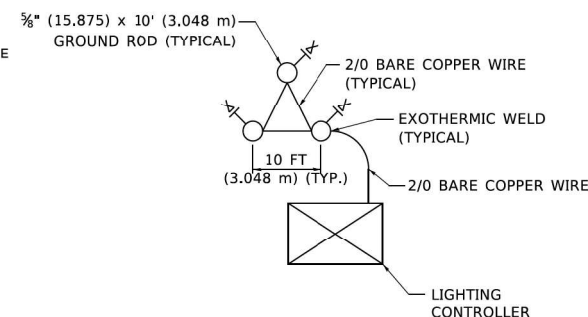


FRONT ELEVATION

1-INCH (25.4) PVC TO GROUND FIELD OF 3 GROUND RODS IN A 10 FT (3.048 m). TRIANGLE CONNECTED VIA BARE COPPER WIRE. VERIFY EXACT LOCATION OF GROUND FIELD WITH THE ENGINEER. NO GROUND WELL SHALL BE PLACED IN CONCRETE PAD IN FRONT OF CONTROLLER.



GROUND WELL DETAIL



GROUND FIELD DETAIL (N.T.S.)

THE CONTRACTOR SHALL VERIFY EXACT LOCATION WITH THE ENGINEER

MODEL: Default
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USER NAME = leysa	DESIGNED - R. TOMSONS	REVISED -
PLOT SCALE = 50,000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/15/2020	CHECKED -	REVISED -
	DATE - 01-15-2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BE-206			CONTRACT NO.	
ILLINOIS FED. AID PROJ. E.L.I.				

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SINGH
SINGH + ASSOCIATES INC.
CONSULTING ENGINEERS

USER NAME = gshowers	DESIGNED - HP	REVISED -
PLOT SCALE = 2' / in.	DRAWN - HP	REVISED -
PLOT DATE = 10/22/2021	CHECKED - RP/MG	REVISED -
	DATE - 10/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS

SCALE: SHEET OF SHEETS STA. TO STA.

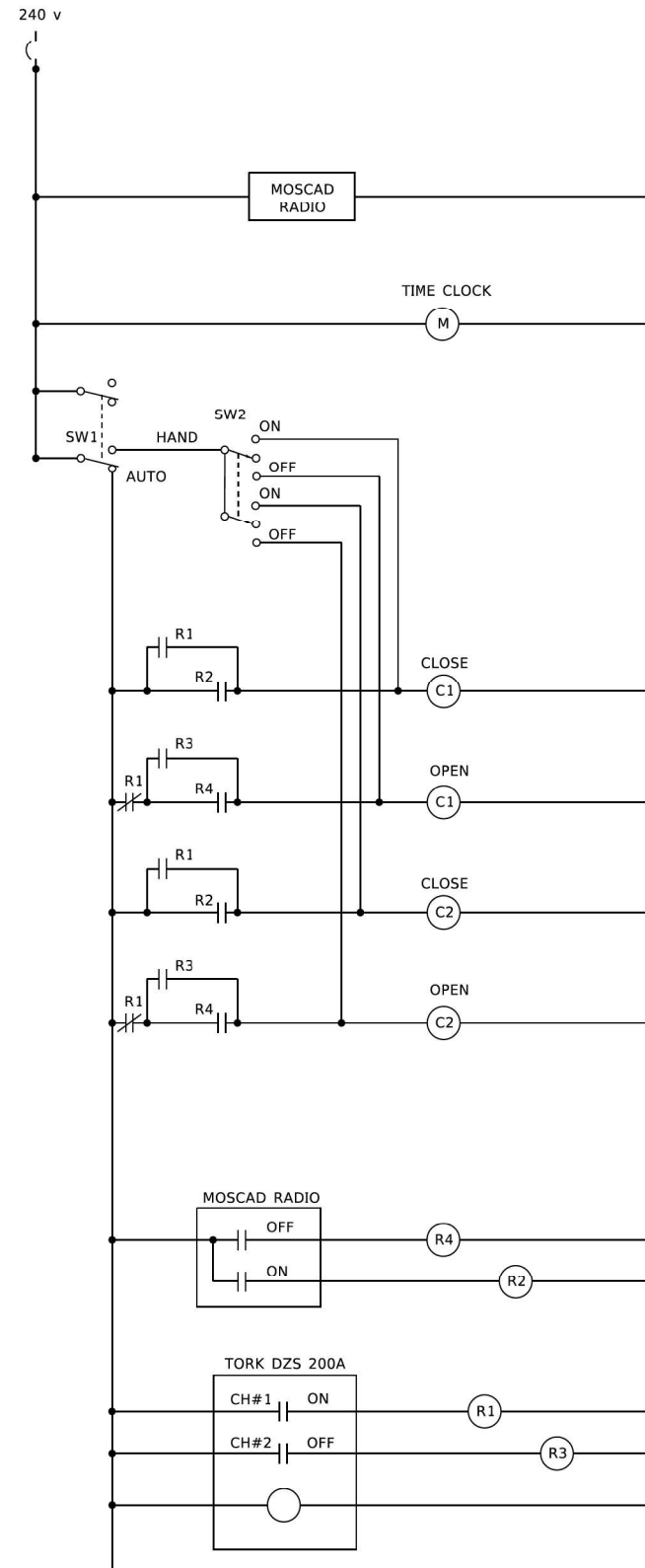
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	49
			CONTRACT NO. 62M92	
ILLINOIS FED. AID PROJ. E.L.I.				

SD-07

NOTES

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

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



CONTROL CIRCUIT LADDER LOGIC DIAGRAM

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

ALL ANALOG INPUTS WILL BE 4-20 MA ONLY. DIGITAL OUTPUT RELAYS WILL BE ELECTRICALLY ENERGIZED AND MOMENTARILY HELD
 MIXED I/O MODULE MODEL NUMBER V436

PROJECT: ILLINOIS DEPARTMENT OF TRANSPORTATION - LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION
 SHEET: 4 OF 4
 DATE: 01-15-2020

USER NAME = leysa	DESIGNED - R. TOMSONS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 30,0000' / in.	CHECKED -	REVISED -		SCALE: NONE	SHEET 4 OF 4 SHEETS					
PLOT DATE = 1/15/2020	DATE - 01-15-2020	REVISED -					BE-206			CONTRACT NO.

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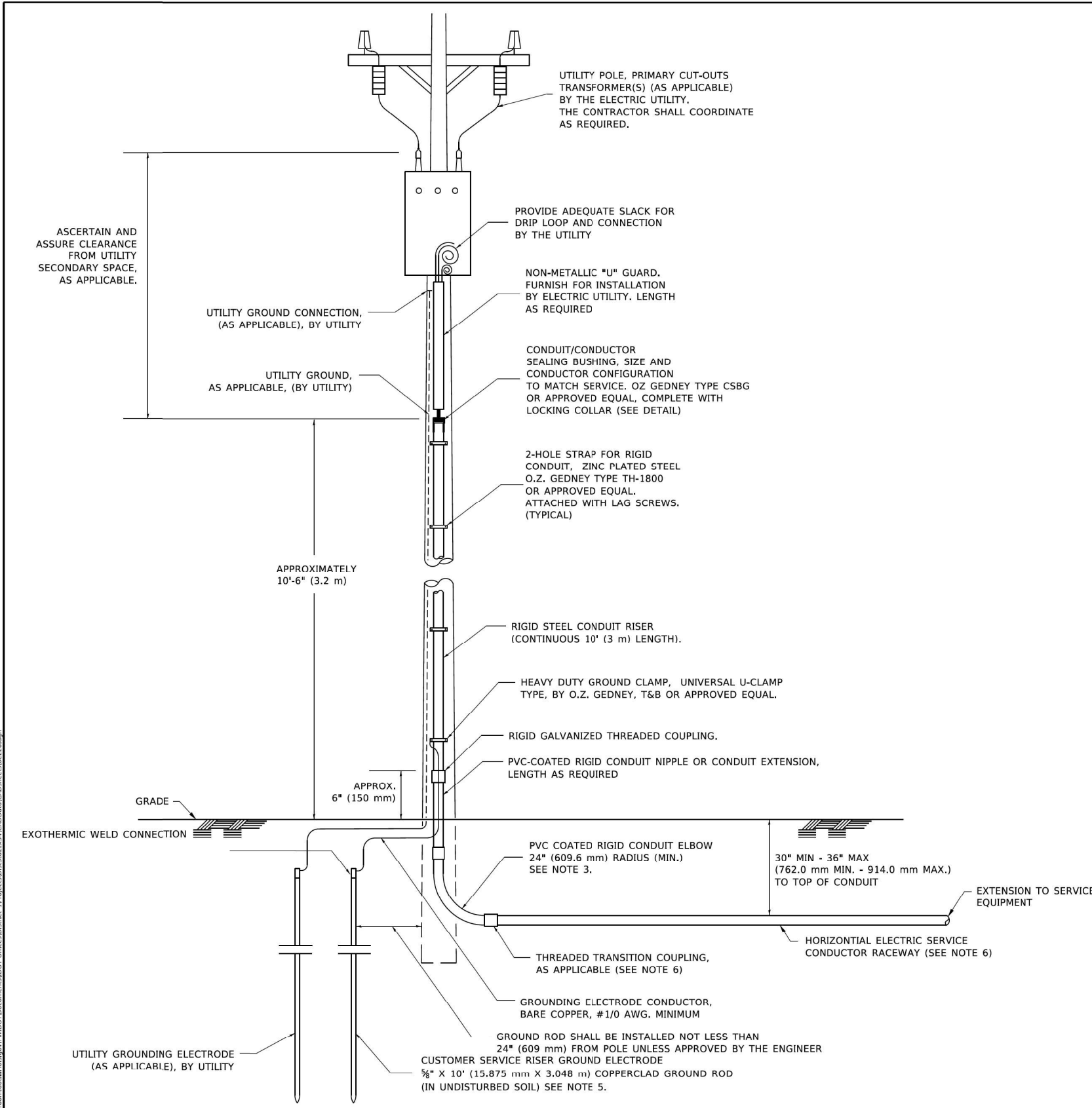
USER NAME = gshowers	DESIGNED - HP	REVISED -
PLOT SCALE = 2' / in.	CHECKED - RP/MG	REVISED -
PLOT DATE = 10/22/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	50
CONTRACT NO. 62M92				

SD-08

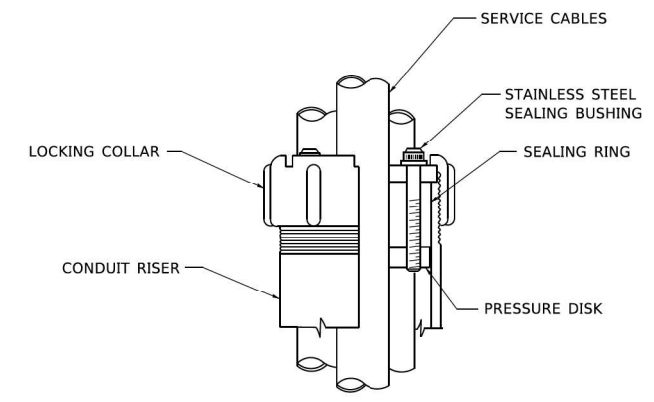


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



SEALING BUSHING DETAIL

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USER NAME = foeternj	DESIGNED -	REVISED - 03-03-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -							SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.
PILOT DATE = 4/19/2019	CHECKED - MEA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS				333	2020-218-L	LAKE	63	51
	DATE -	REVISED -							SCALE:	SHEET	OF	SHEETS	STA.

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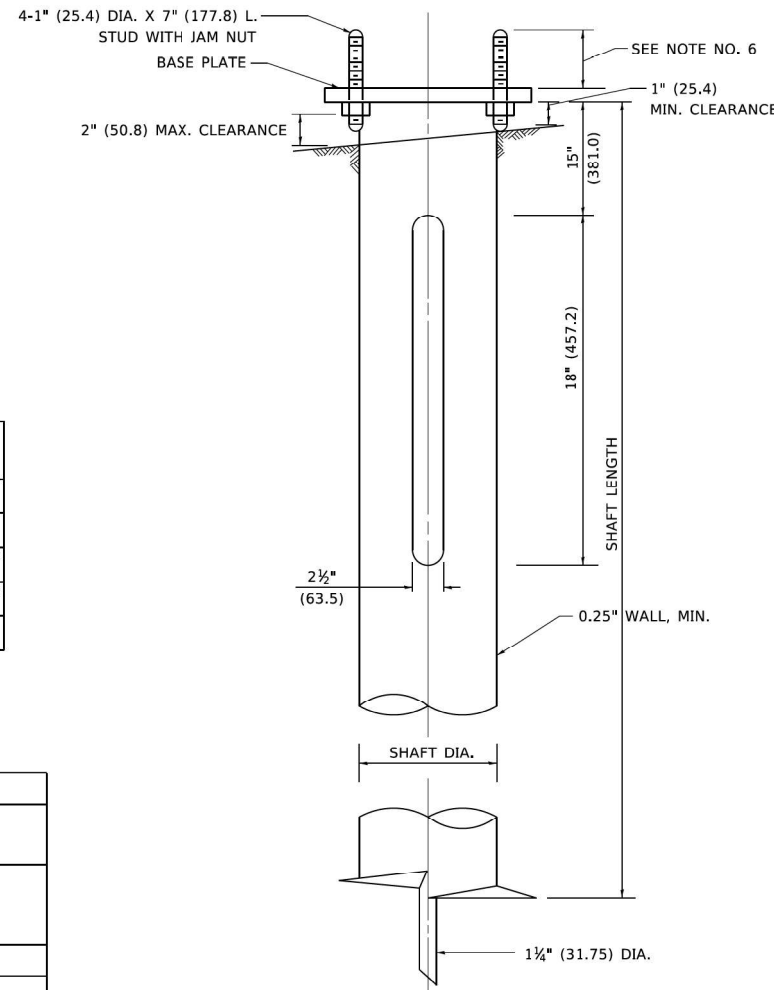
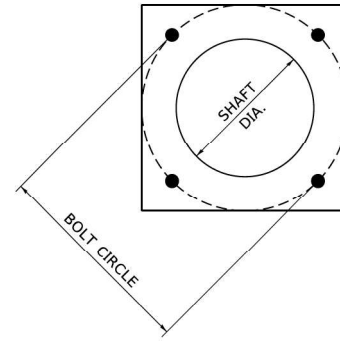


USER NAME = gshowers	DESIGNED - HP	REVISED -
PLOT SCALE = 2' / in.	DRAWN - HP	REVISED -
PLOT DATE = 10/22/2021	CHECKED - RP/MG	REVISED -
	DATE - 10/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	51
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				



NOTES

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVANIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1#4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ($\pm 1^\circ$) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE ($\pm 2^\circ$).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
36 FT.-40FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

METAL HELIX FOUNDATION MATERIALS

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

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 DATE: 10/22/2021

USER NAME = footemj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHT POLE FOUNDATION, METAL			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 4/19/2019	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
PLOT DATE = 10/22/2021	DATE - 02-27-07	REVISED -									

SD-10



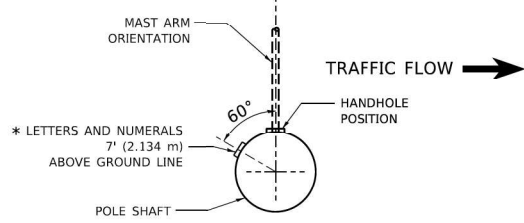
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PLOT DATE = 10/22/2021	CHECKED - RP/MG	REVISED -
	DATE - 10/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

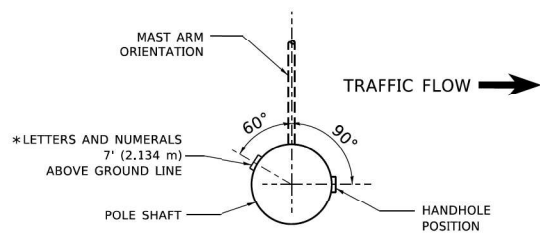
IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS

SCALE: SHEET OF SHEETS STA. TO STA.

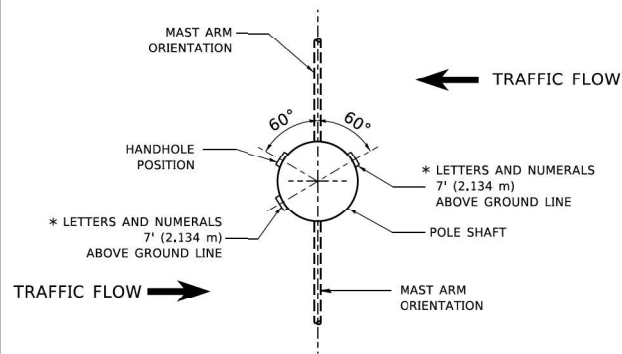
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	52
CONTRACT NO. 62M92				
ILLINOIS FED. AID PROJECT				



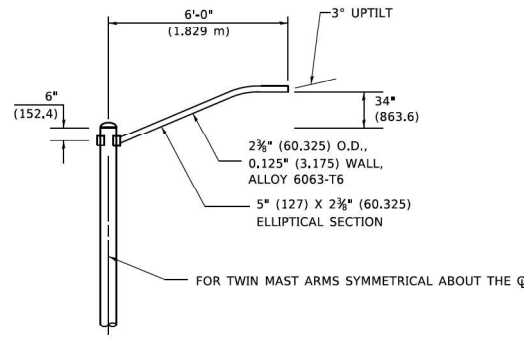
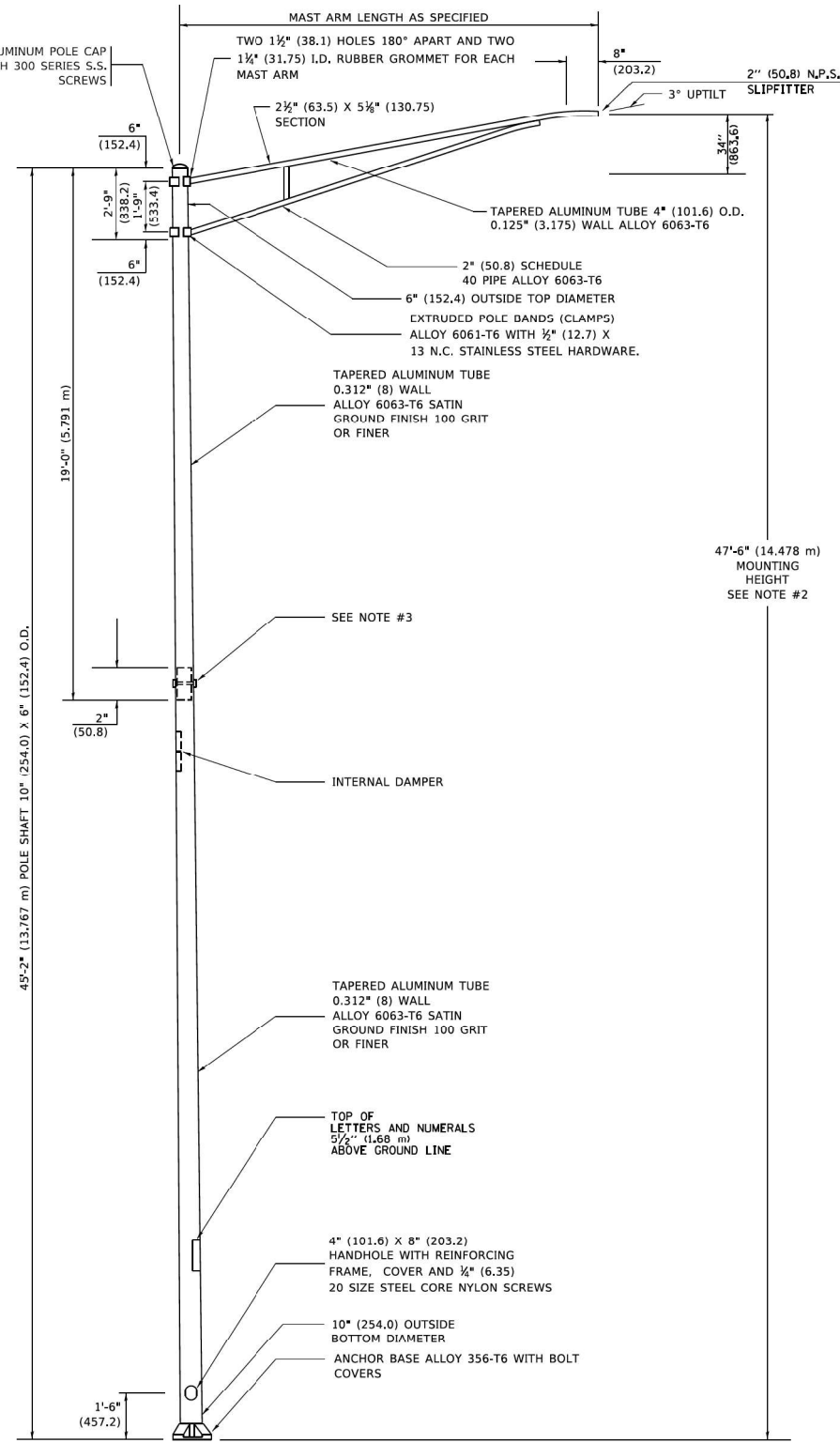
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



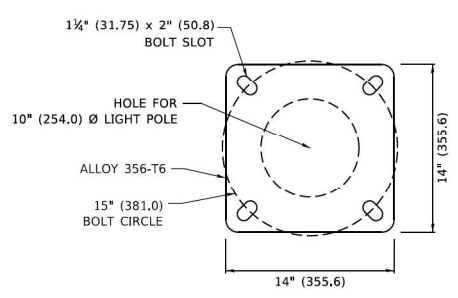
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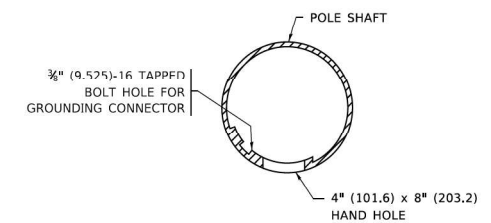
POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES



6' (1.8 m) SINGLE MEMBER MAST ARM (N.T.S.)



LIGHT POLE BASE PLATE DETAIL 15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL (N.T.S.)

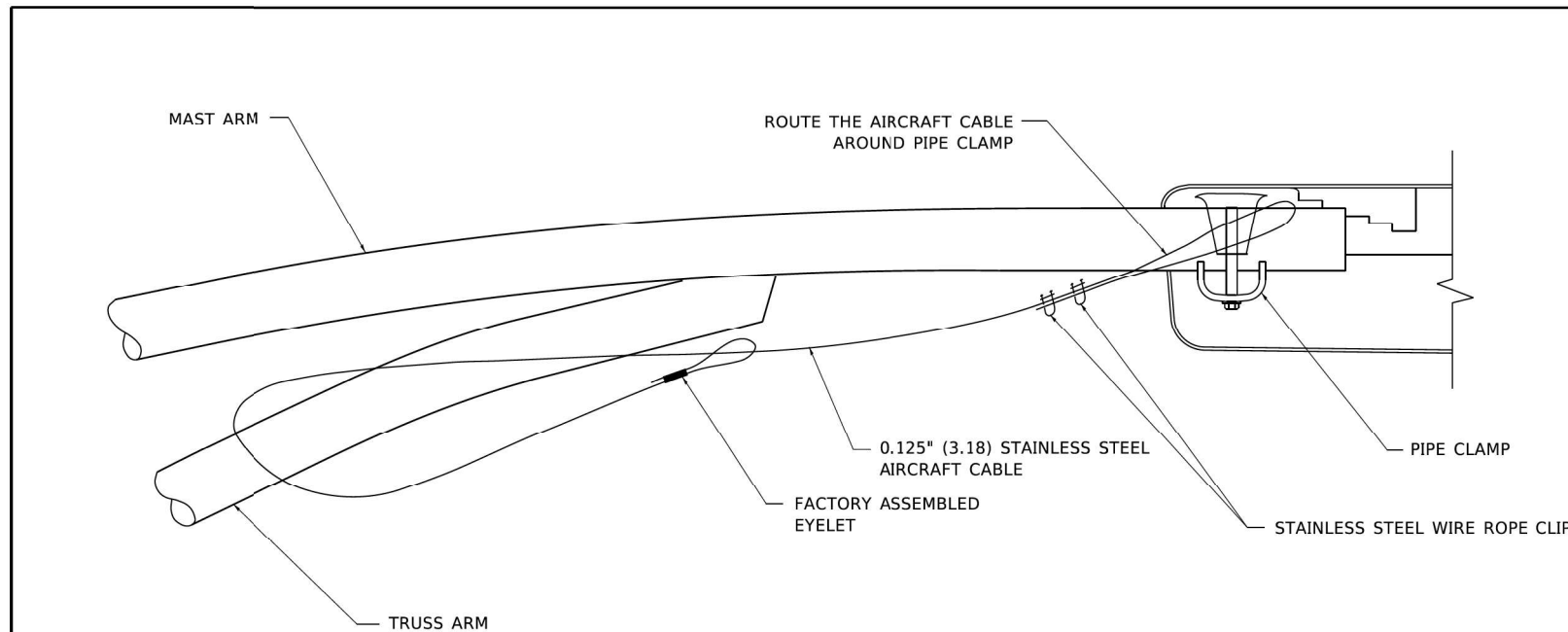
NOTES

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

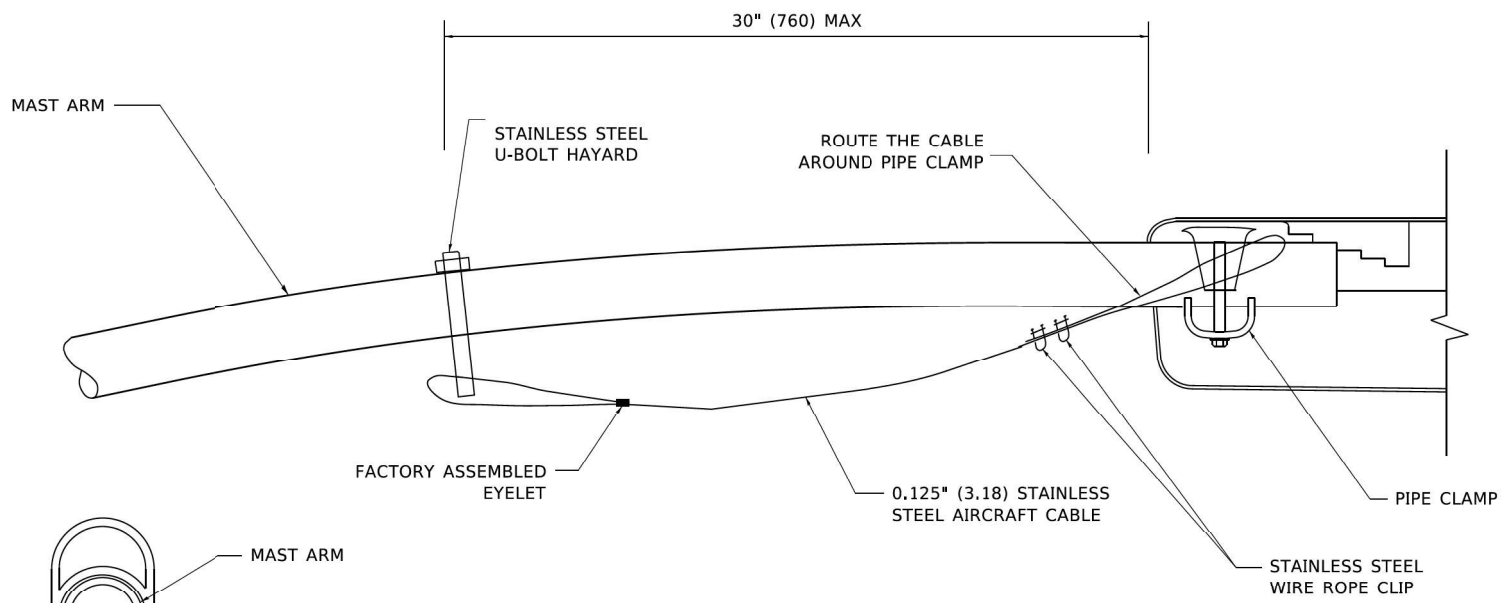
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USER NAME = footem	DESIGNED -	REVISED - R. TOMSONS 09-06-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		ALUMINUM LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50,0000' / in.	DRAWN -	REVISED - R. TOMSONS 09-03-03			SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.	BE-400 CONTRACT NO.	
PLOT DATE = 4/19/2019	CHECKED -	REVISED - R. TOMSONS 01-18-13						ILLINOIS FED. AID PROJECT				
	DATE -	REVISED - R. TOMSONS 03-18-15										

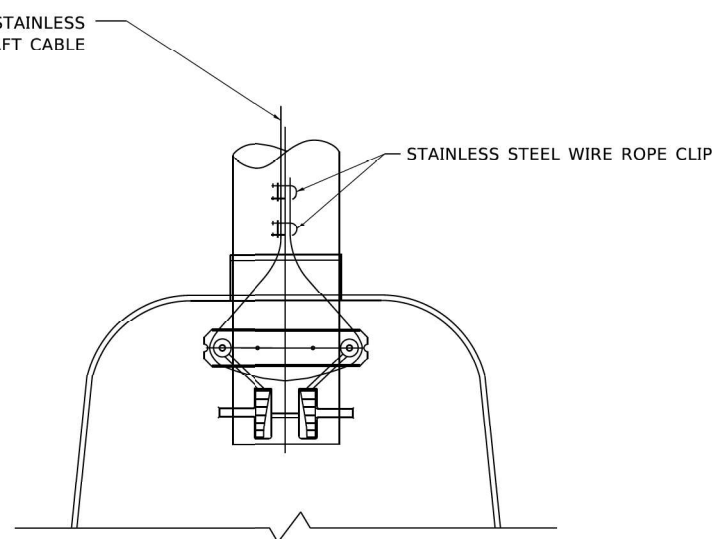
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PLOT SCALE = 2' / in.	DRAWN - HP	REVISED -
PLOT DATE = 10/22/2021	CHECKED - RP/MG	REVISED -
	DATE - 10/22/2021	REVISED -



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



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



BOTTOM VIEW
N.T.S.

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

USER NAME = footemj	DESIGNED -	REVISED - 08-08-03
PLOT SCALE = 50,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 4/19/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUMINAIRE SAFETY CABLE ASSEMBLY
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-701			
ILLINOIS FED. AID PROJECT			CONTRACT NO.	

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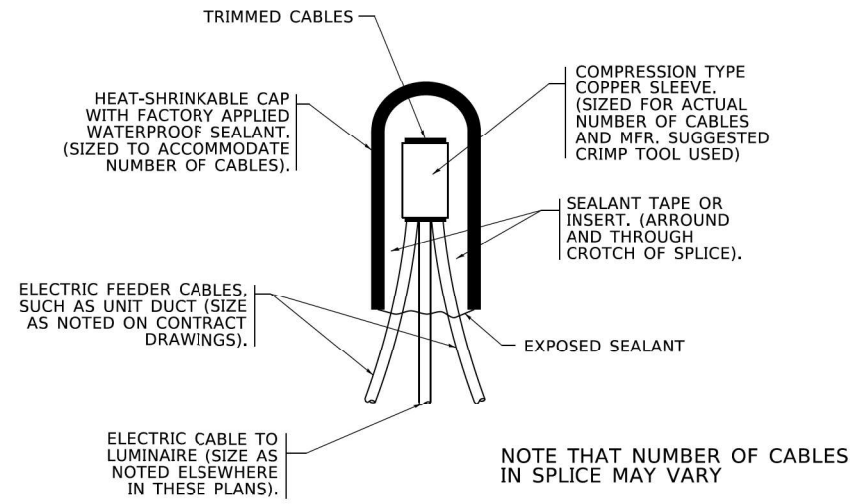


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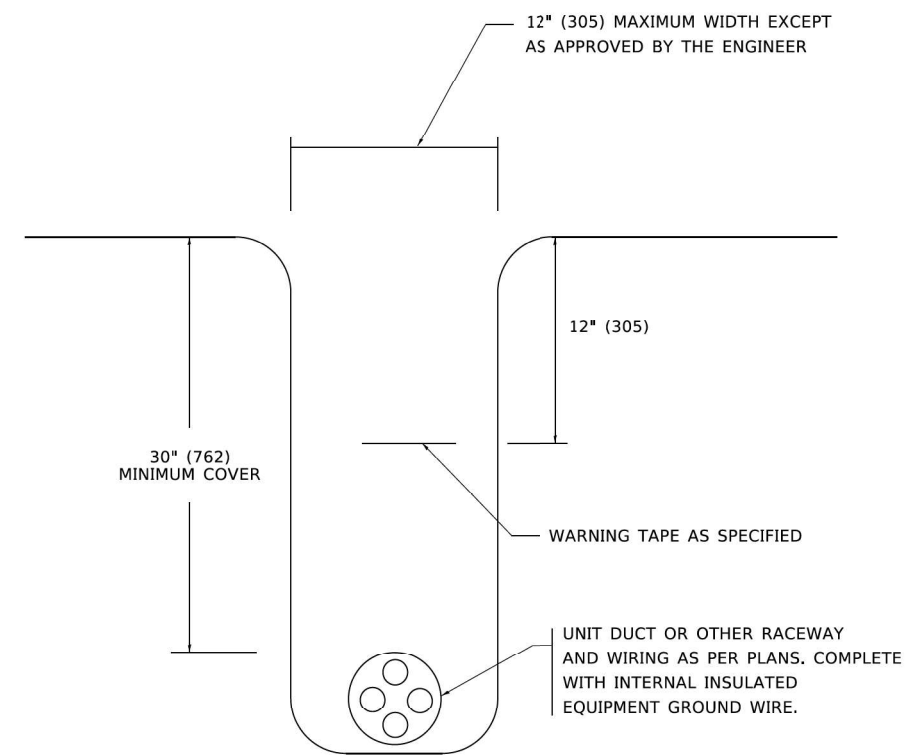
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS
SCALE: SHEET OF SHEETS STA. TO STA.

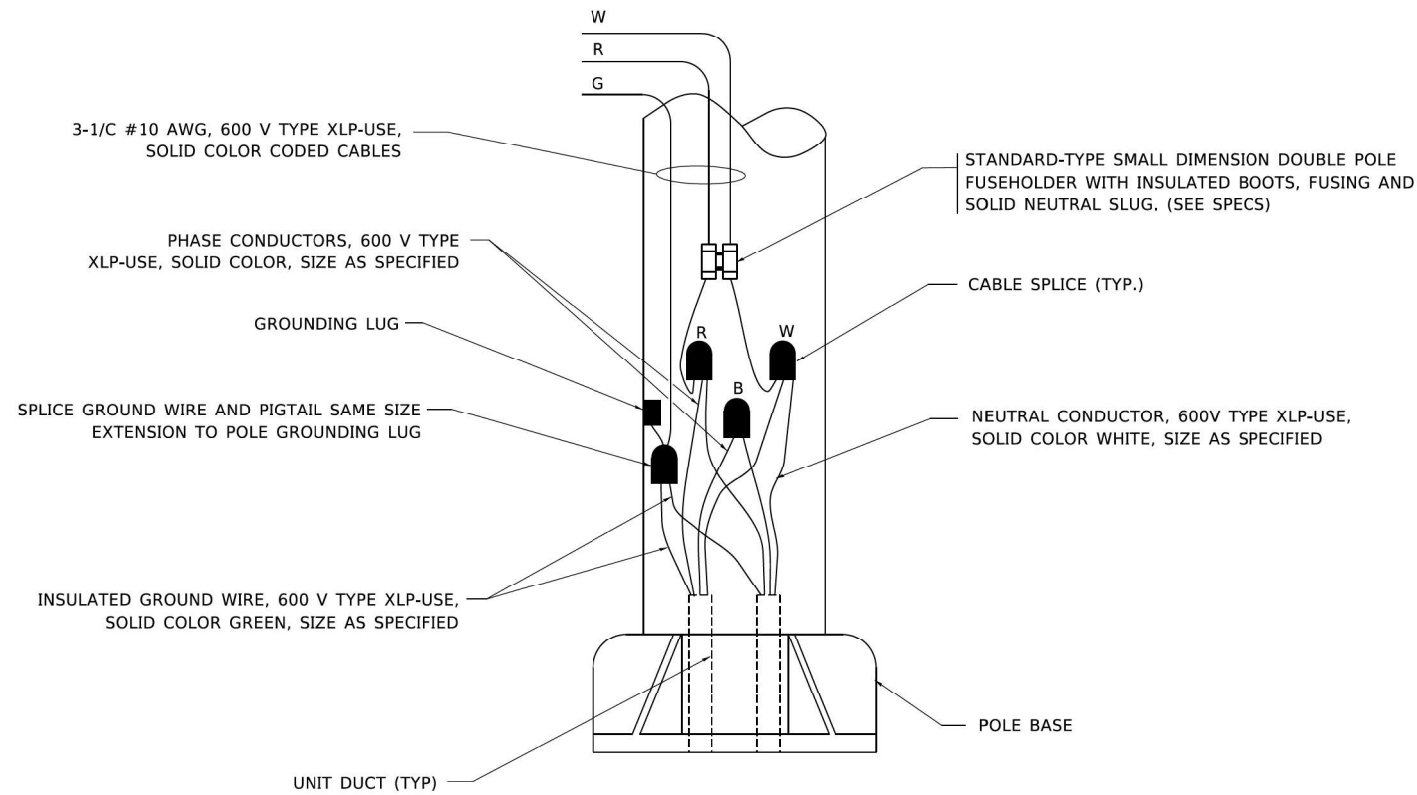
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	55
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M92	



TYPICAL SPLICE DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.

MODEL: D:\dwg\...
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 USER: ...
 DATE: ...

USER NAME = Ieysa	DESIGNED -	REVISED - 02/04/2020
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	DATE - 08/08/2003	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS
SHEET A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-702			
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

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

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SINGH
SINGH + ASSOCIATES INC.
CONSULTING ENGINEERS

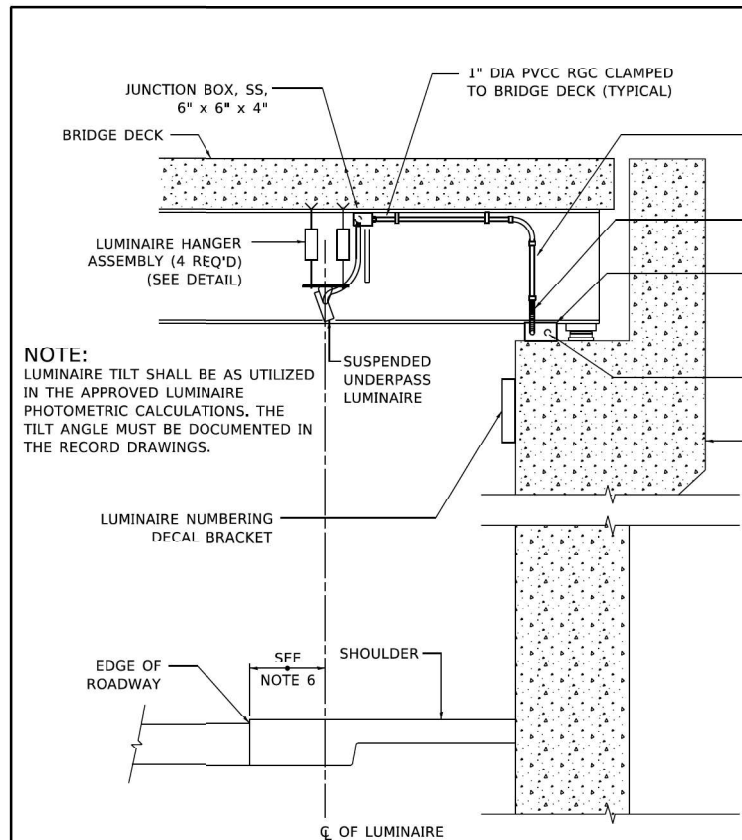
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS

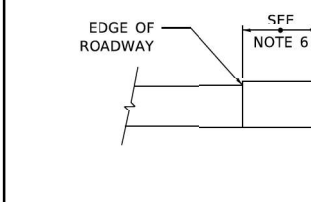
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	56
CONTRACT NO. 62M92			ILLINOIS FED. AID PROJECT	

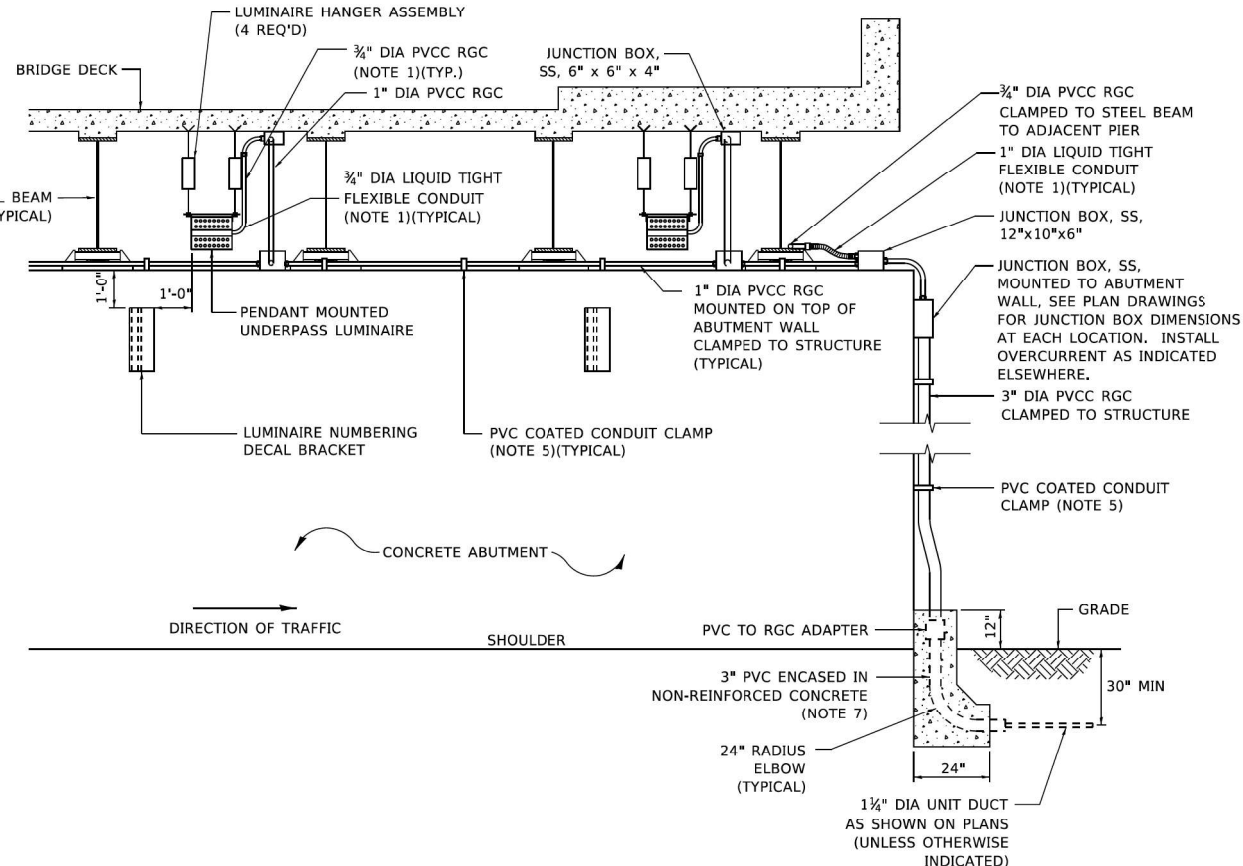


NOTE:
LUMINAIRE TILT SHALL BE AS UTILIZED IN THE APPROVED LUMINAIRE PHOTOMETRIC CALCULATIONS. THE TILT ANGLE MUST BE DOCUMENTED IN THE RECORD DRAWINGS.

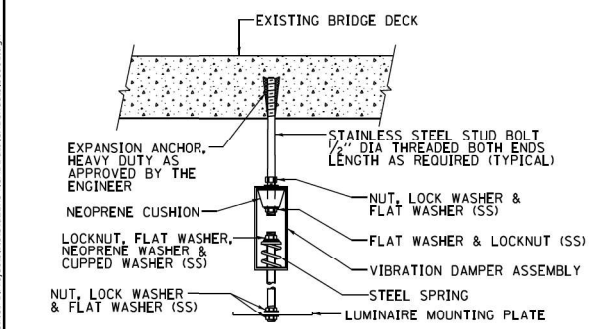
LUMINAIRE NUMBERING DECAL BRACKET



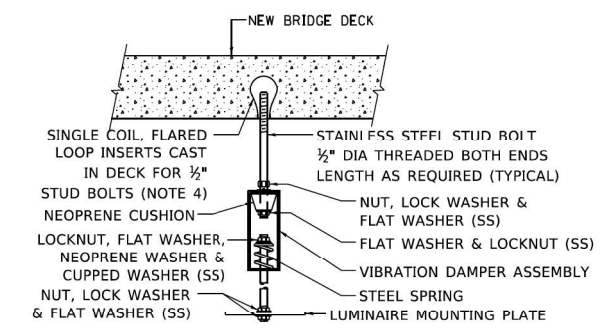
1" DIA PVCC RGC CLAMPED TO BRIDGE DECK (TYPICAL)
1" DIA PVCC RGC CLAMPED TO STRUCTURE TO ADJACENT JUNCTION BOX
1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (NOTE 1)(TYPICAL)
JUNCTION BOX, SS, 12" X 10" X 6"
1" DIA PVCC RGC CLAMPED TO STRUCTURE TO ADJACENT JUNCTION BOX
CONCRETE ABUTMENT



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

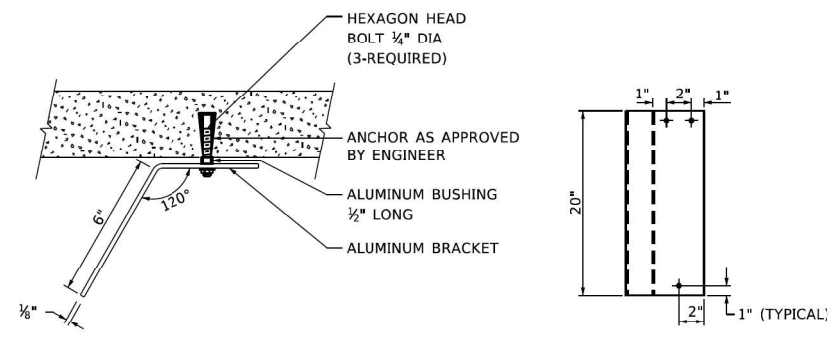


EXISTING BRIDGE DECK INSTALLATION



NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS



LUMINAIRE NUMBERING DECAL BRACKET

NOT TO SCALE



PVC COATED CONDUIT BEAM CLAMP
NOT TO SCALE



PVC COATED CONDUIT CLAMP
NOT TO SCALE

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USER NAME = gaglianobt	DESIGNED -	REVISED - 12-12-05
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/15/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	

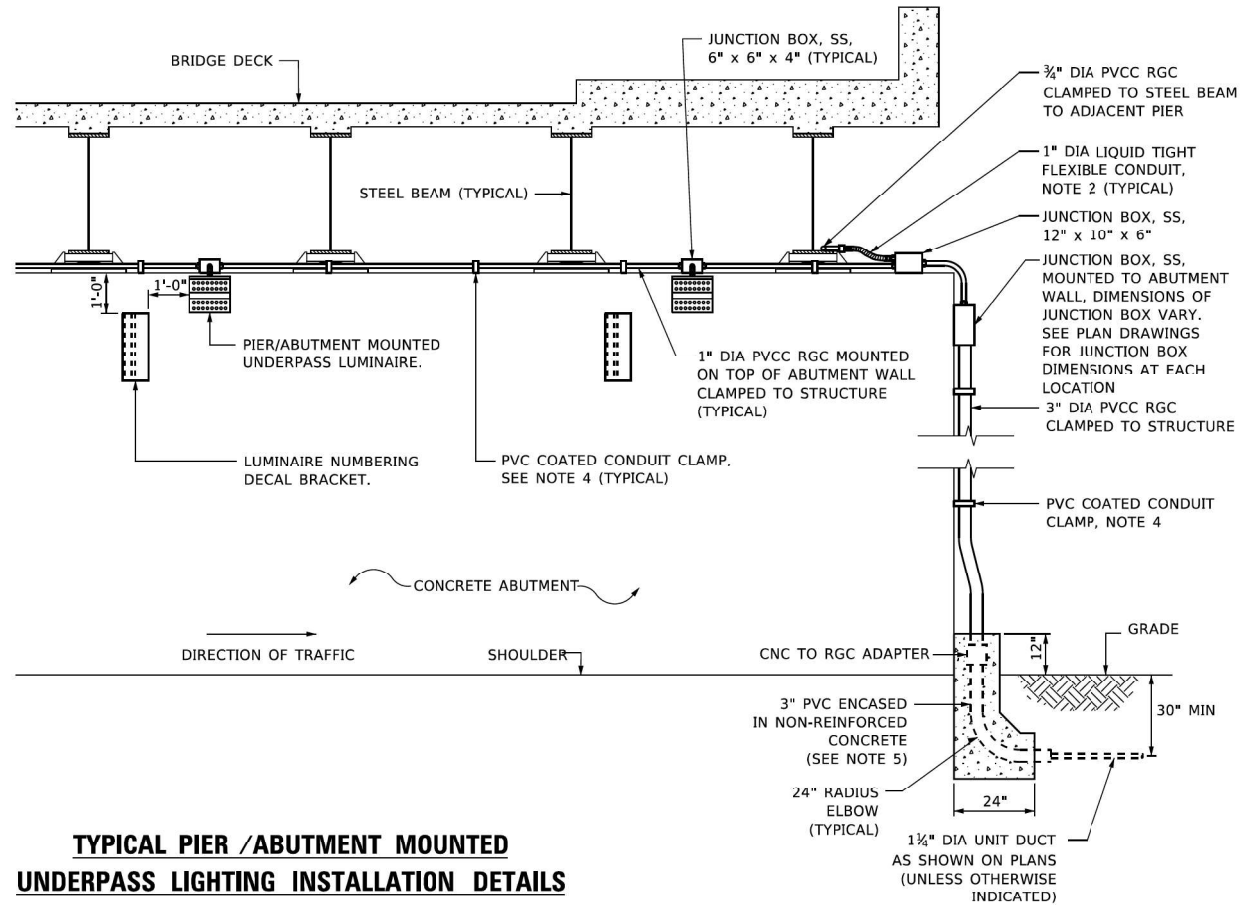
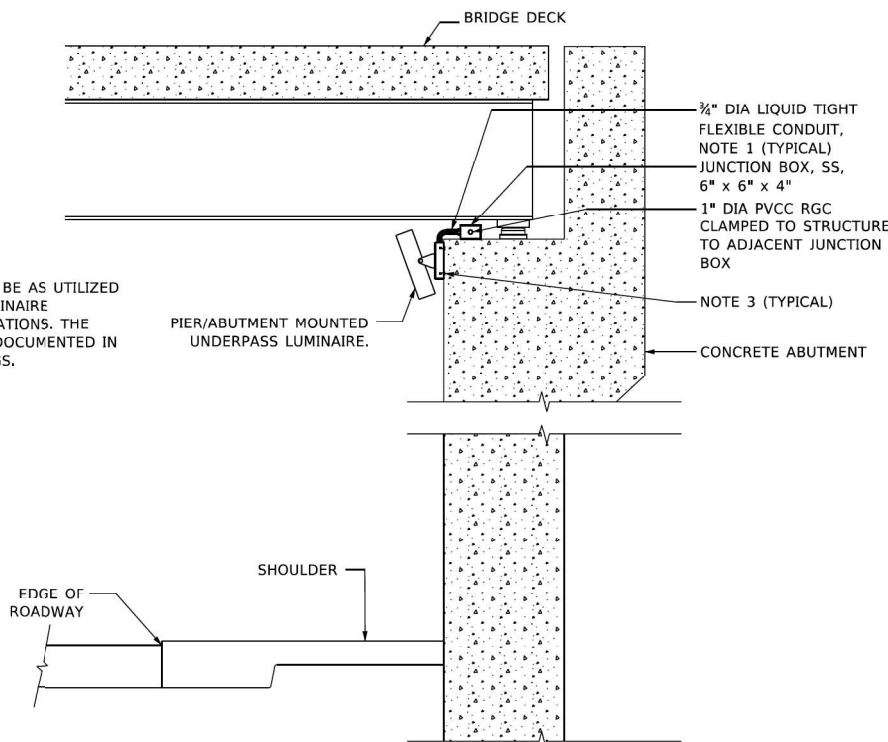
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BE-901		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

USER NAME = gshowers	DESIGNED - HP	REVISED -
PLOT SCALE = 2' / in.	DRAWN - HP	REVISED -
PLOT DATE = 10/22/2021	CHECKED - RP/MG	REVISED -
	DATE - 10/22/2021	REVISED -

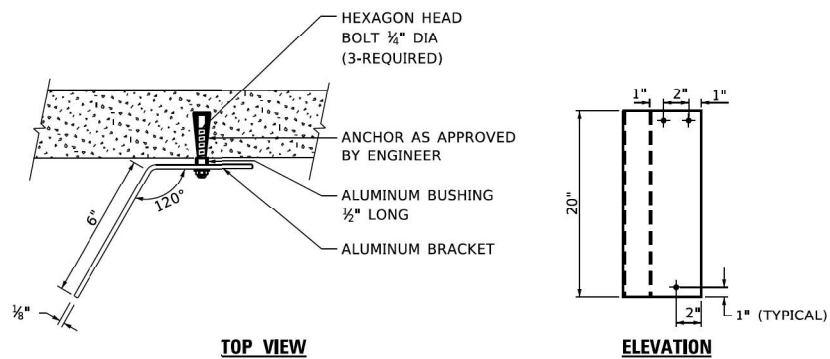
IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS			
SCALE:	SHEET OF SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	57
		CONTRACT NO. 62M92		
ILLINOIS FED. AID PROJECT				

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

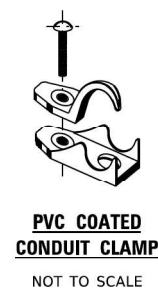
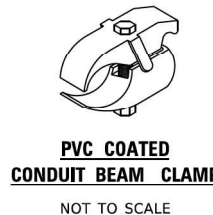


TYPICAL PIER / ABUTMENT MOUNTED UNDERPASS LIGHTING INSTALLATION DETAILS



LUMINAIRE NUMBERING DECAL BRACKET

NOT TO SCALE



NOTES:

- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT THE COST OF THE " DIA. RIGID STEEL CONDUIT AND " DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE LUMINAIRE INSTALLATION.
- SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
- UNDERPASS LUMINAIRE MOUNTED TO FACE OF PIER OR ABUTMENT WALL WITH 1/2" ALUMINUM SPACERS, MOUNTING HEIGHT OF 1" BELOW THE TOP OF PIER OR ABUTMENT WALL TYPICAL FOR ALL PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRES UNLESS OTHERWISE NOTED.
- EXPANSION ANCHOR, POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED. EXPANSION ANCHOR MUST BE SIZED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
- THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
- ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.

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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/15/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER / ABUTMENT MOUNTED LED UNDERPASS
LUMINAIRE INSTALLATION DETAILS**

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

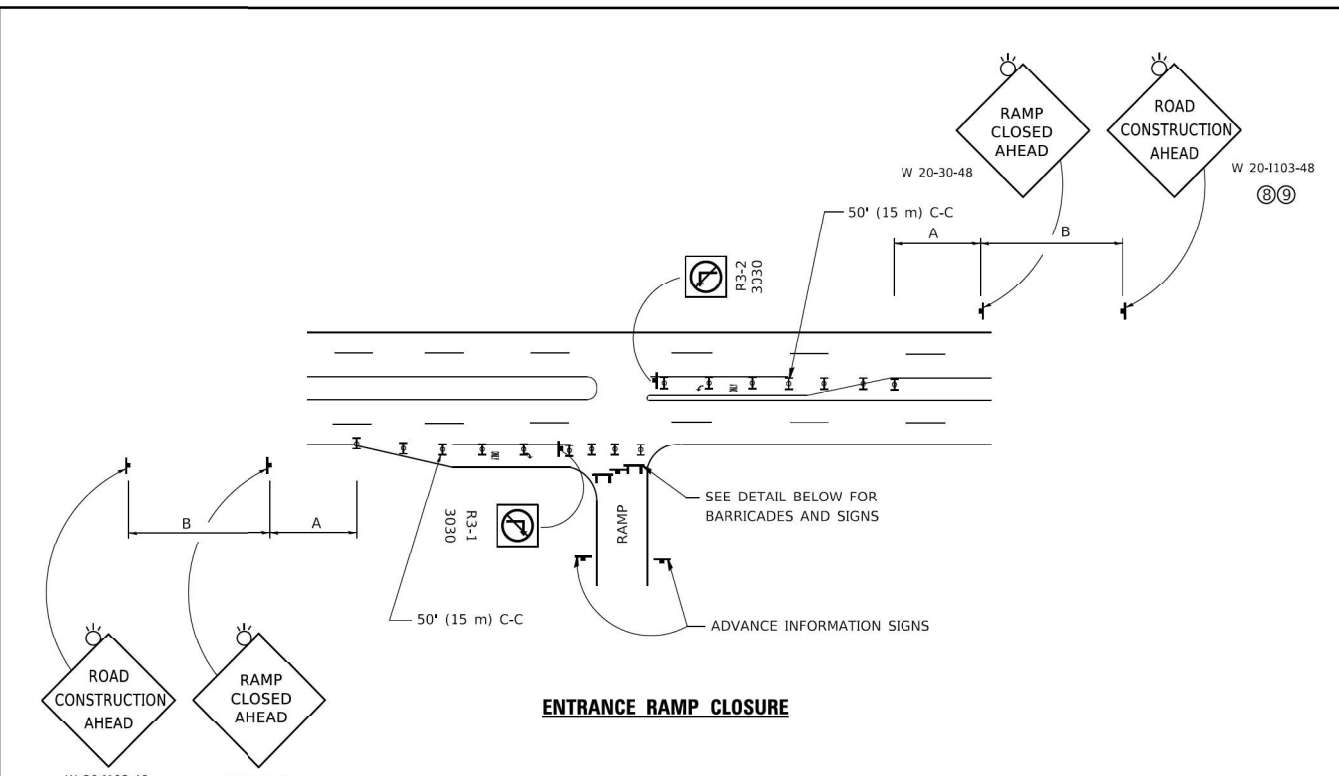
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-903			
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

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USER NAME = gshowers	DESIGNED - HP	REVISED -
	DRAWN - HP	REVISED -
PLOT SCALE = 2' / in.	CHECKED - RP/MG	REVISED -
PLOT DATE = 10/22/2021	DATE - 10/22/2021	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	58
CONTRACT NO. 62M92			ILLINOIS FED. AID PROJECT	

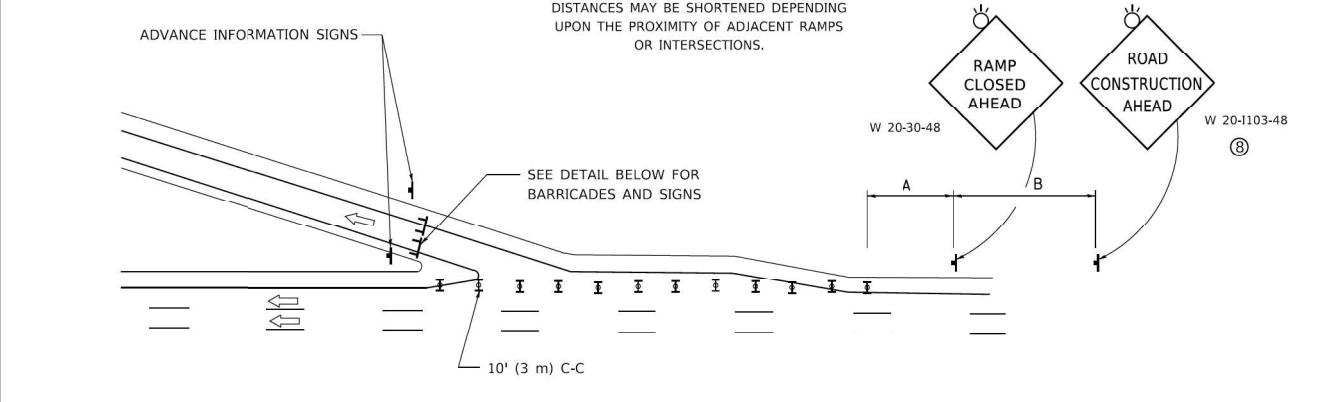


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

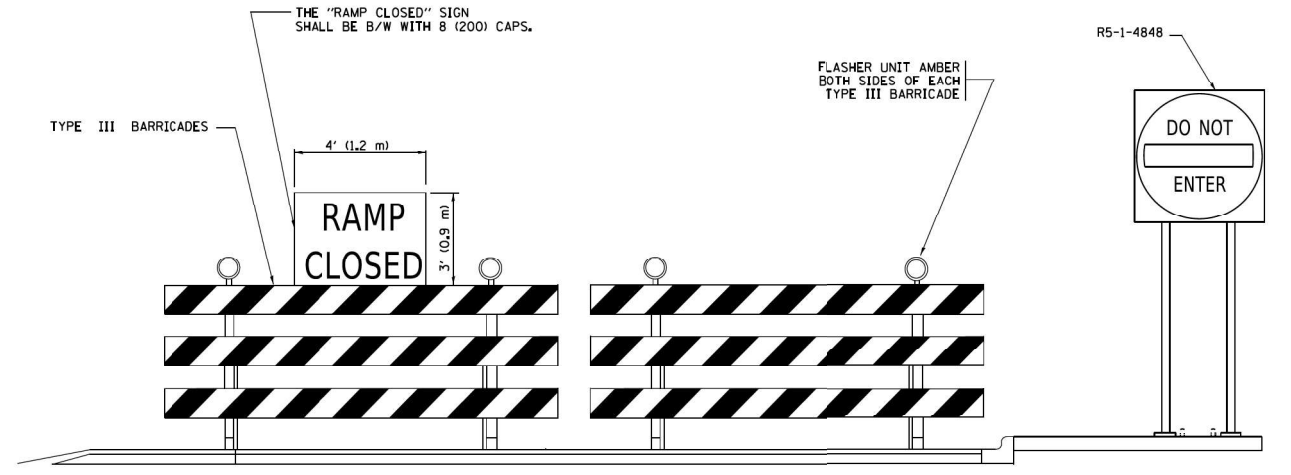
FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

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

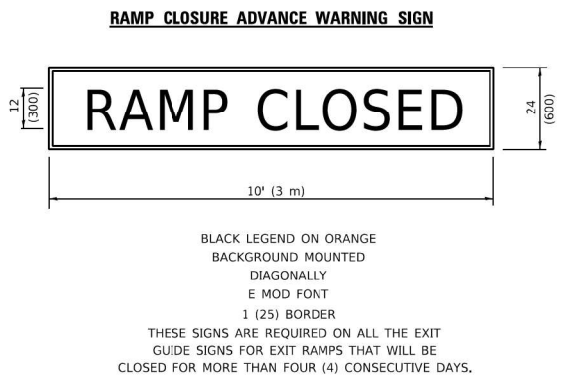


EXIT RAMP CLOSURE

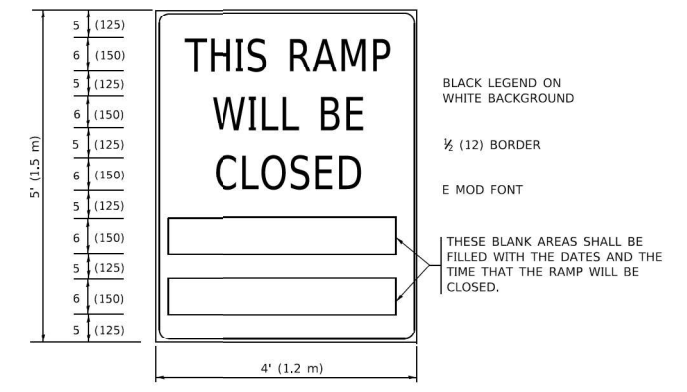
- SYMBOLS**
- ▬ TYPE II BARRICADE OR DRUM
 - ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.



BLACK LEGEND ON WHITE BACKGROUND
1/2 (12) BORDER
E MOD FONT
THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.
THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

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

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

USER NAME = footemj	DESIGNED - D.W.S.	REVISED - S.P.B._01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ENTRANCE AND EXIT RAMP CLOSURE DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50,0000' / in.	CHECKED -	REVISED - S.P.B._12-09		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	TC-08		CONTRACT NO.	
PLOT DATE = 3/4/2019	DATE - 02-R3	REVISED - M.D._06-13				ILLINOIS		FED. AID PROJECT		

USER NAME = gshowers	DESIGNED - HP	REVISED -
PLOT SCALE = 2' / in.	CHECKED - RP/MG	REVISED -
PLOT DATE = 10/22/2021	DATE - 10/22/2021	REVISED -

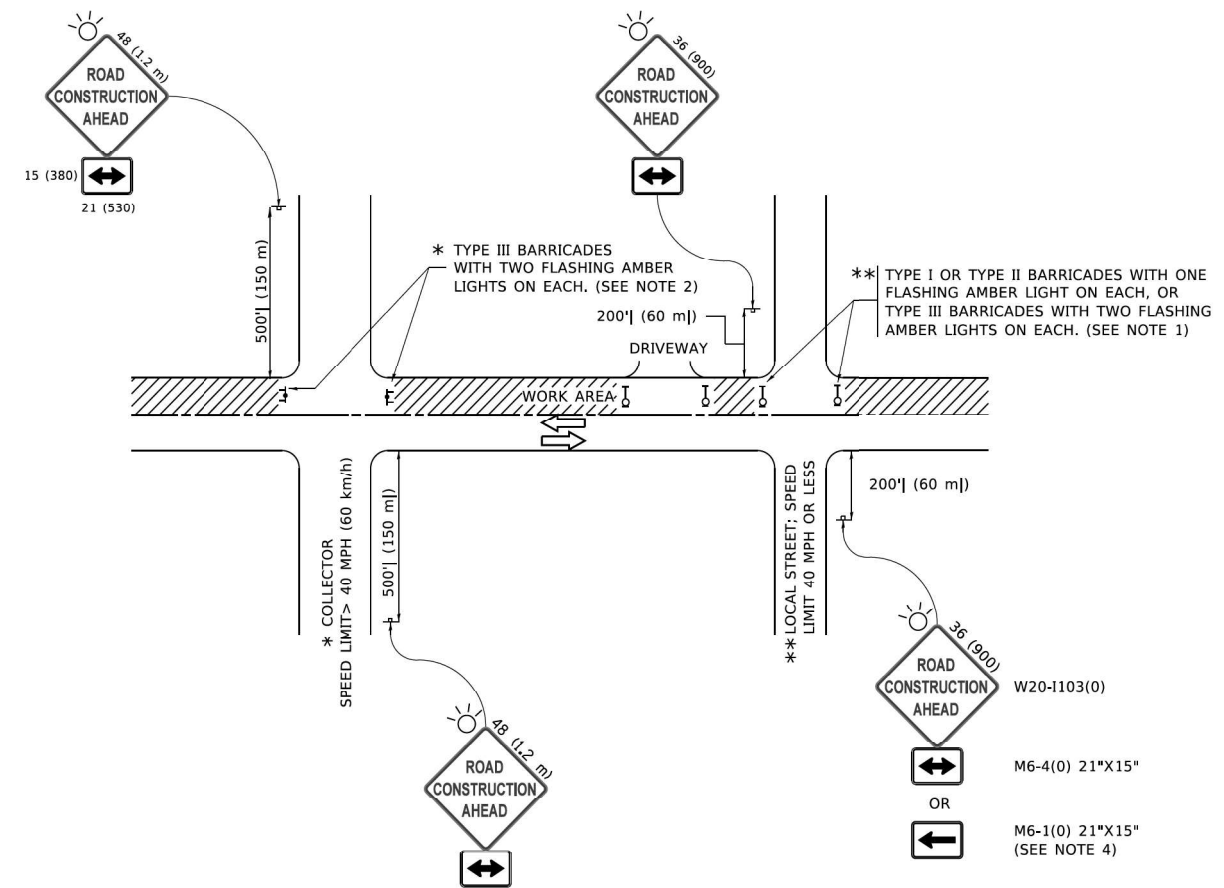
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT D1-TRAFFIC CONTROL STANDARDS			
SCALE:	SHEET	OF	SHEETS
			STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	59
			CONTRACT NO. 62M92	
		ILLINOIS	FED. AID PROJECT	

SD-17

MODEL Path: \\... FILE NAME: ...



NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY
 - BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S), THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
PLOT SCALE = 50,0000' / in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
PLOT DATE = 3/4/2019	DATE - 06-09	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-10		CONTRACT NO.		
ILLINOIS		FED. AID PROJECT		

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USER NAME = gshowers	DESIGNED - HP	REVISED -
PLOT SCALE = 2' / in.	CHECKED - RP/MG	REVISED -
PLOT DATE = 10/22/2021	DATE - 10/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT D1-TRAFFIC CONTROL STANDARDS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	60
		CONTRACT NO. 62M92		
ILLINOIS		FED. AID PROJECT		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

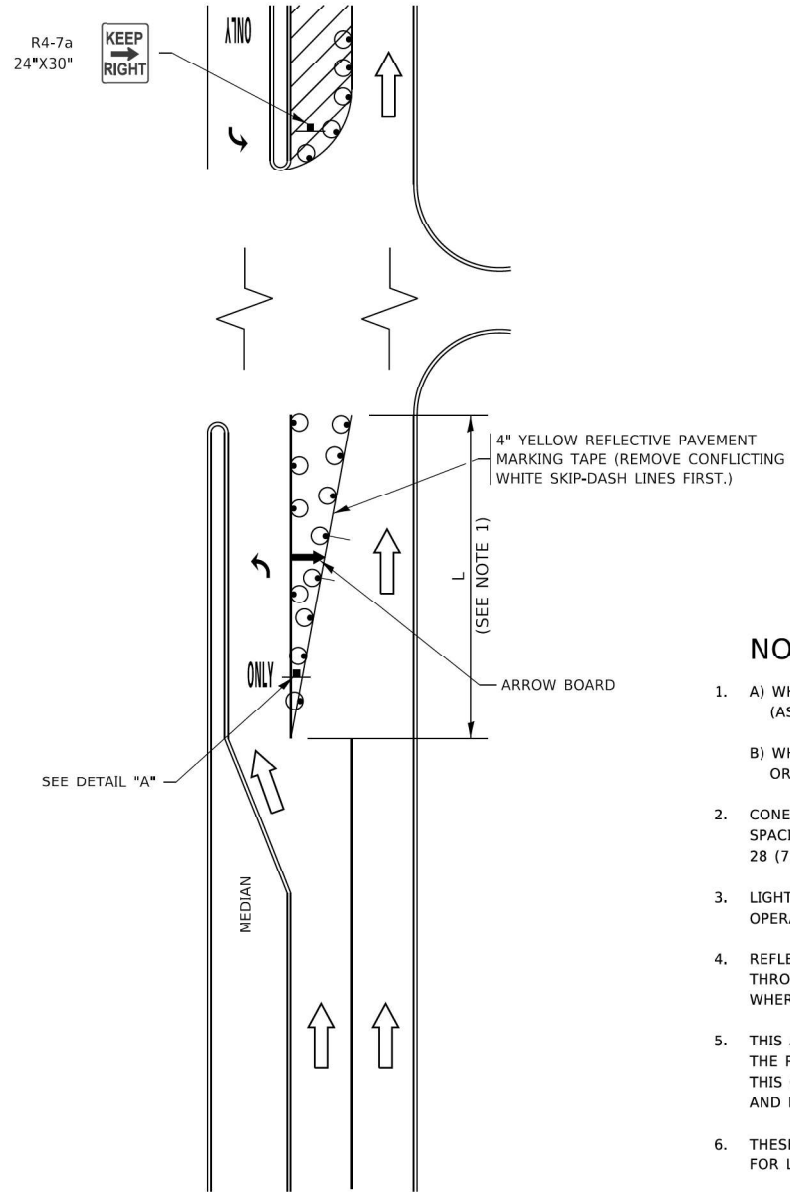


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

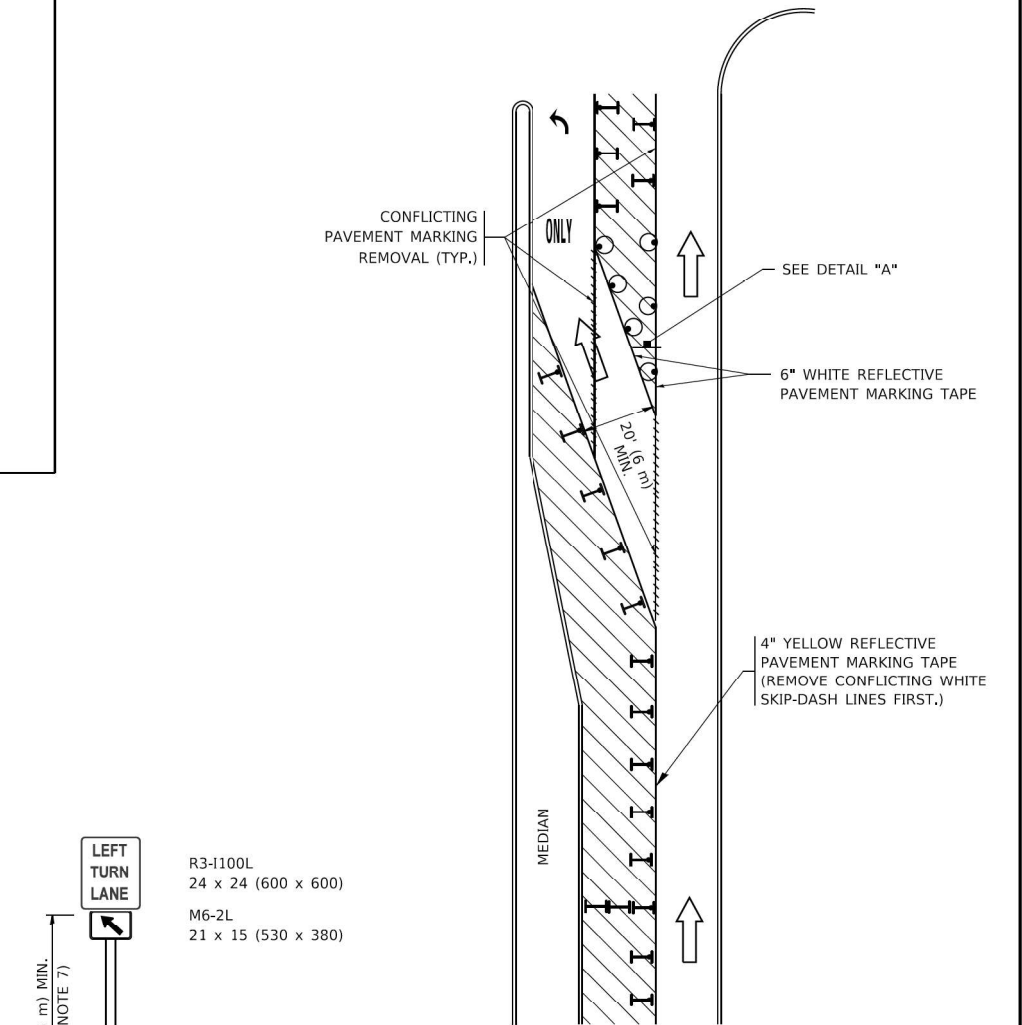


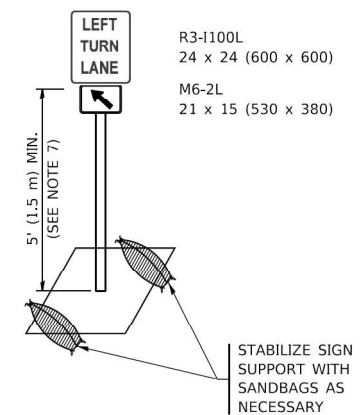
FIGURE 2

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



DETAIL A

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

MODEL Path: \\0131P01001\Projects\1406601\Task_Order\13162M92\04_CADD\CADD_Sheets\162M92-ctrl-stds\std-19.dgn
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USER NAME = footemj	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 30,0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-14			CONTRACT NO.	
ILLINOIS			FED. AID PROJECT	

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SINGH
SINGH + ASSOCIATES INC.
CONSULTING ENGINEERS

USER NAME = gshowers	DESIGNED - HP	REVISED -
	DRAWN - HP	REVISED -
PLOT SCALE = 2' / in.	CHECKED - RP/MG	REVISED -
PLOT DATE = 10/22/2021	DATE - 10/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

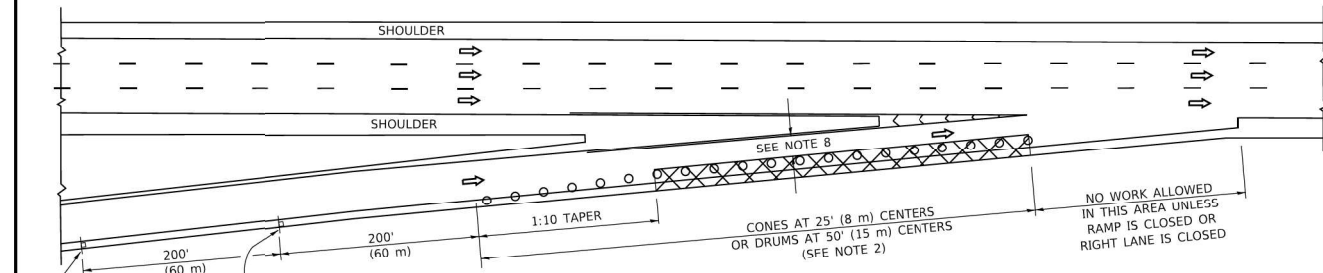
IDOT D1-TRAFFIC CONTROL STANDARDS

SCALE: SHEET OF SHEETS STA. TO STA.

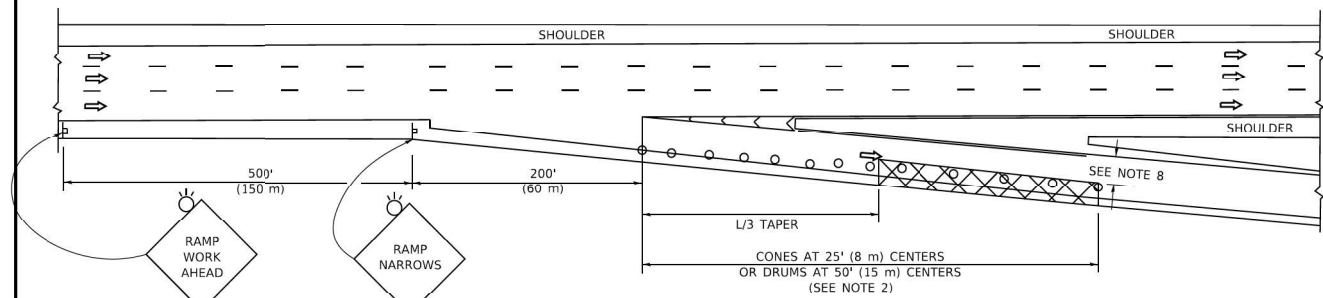
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	61
			CONTRACT NO. 62M92	
ILLINOIS			FED. AID PROJECT	

SD-19

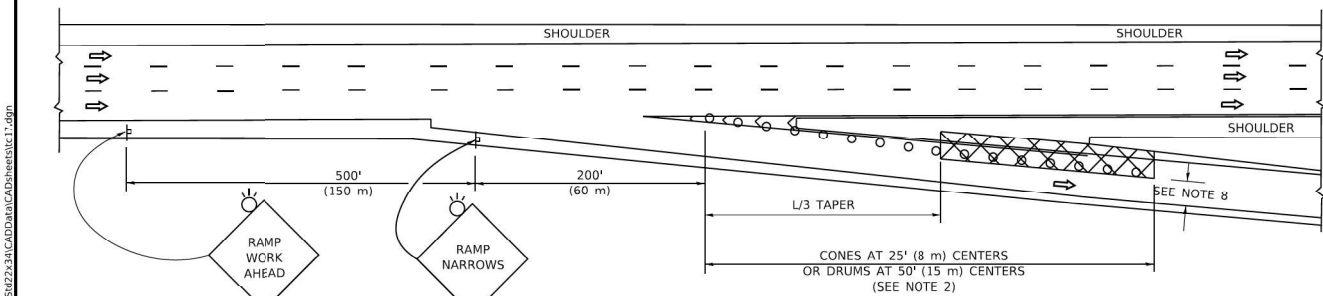
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

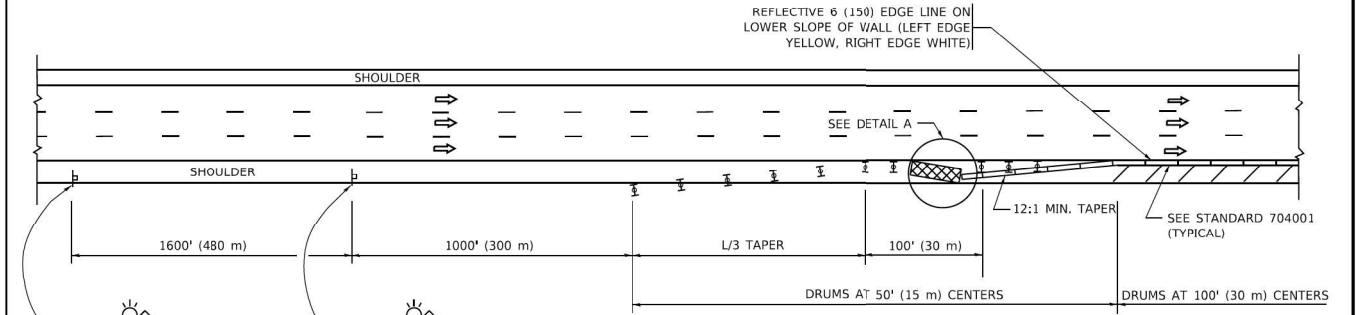
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES:

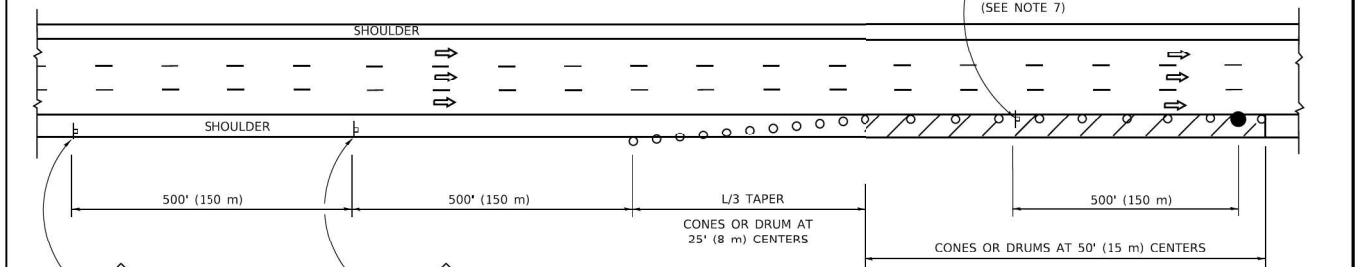
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER	METRIC: $L = 0.65(W/S)$ ENGLISH: $L = (W/S)$
	W = WIDTH OF OFFSET IN FEET (METERS)
	S = NORMAL POSTED SPEED MPH (KM/H)
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350/MASH COMPLIANT.

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

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

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

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USER: gshowers
DATE: 10/22/2021

USER NAME = footem	DESIGNED -	REVISED -	S.P.B. 01-07
PLOT SCALE = 50,0000' / in.	DRAWN - D.W.S.	REVISED -	S.P.B. 12-09
PLOT DATE = 3/4/2019	CHECKED -	REVISED -	M.D. 06-13
	DATE - 11-96	REVISED -	M.D. 01-18

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE		SHEET 1 OF 1 SHEETS		STA. TO STA.
TC-17		CONTRACT NO.		
ILLINOIS		FED. AID PROJECT		

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CONSULTING ENGINEERS

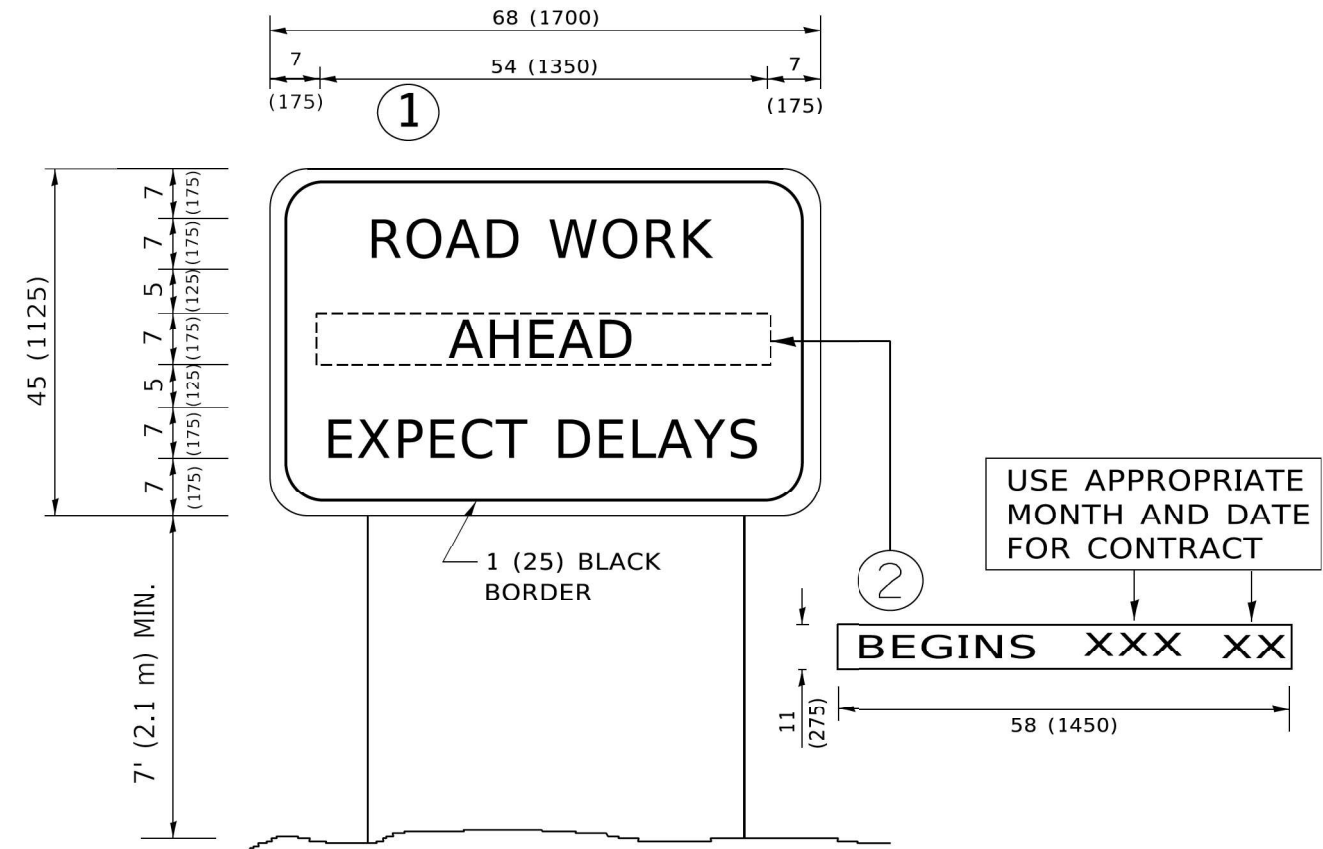
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PLOT SCALE = 2' / in.	DRAWN - HP	REVISED -
PLOT DATE = 10/22/2021	CHECKED - RP/MG	REVISED -
	DATE - 10/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT D1-TRAFFIC CONTROL STANDARDS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	62
SCALE:		SHEET OF SHEETS		STA. TO STA.
		CONTRACT NO. 62M92		
ILLINOIS		FED. AID PROJECT		

SD-20



NOTES:

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

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

MODEL: P:\default
 FILE NAME: \\g:\01\Projects\148601\Task-Order\13162\M9204_CADD\CADD-Sheets\162\M92-ctc-stanord-21.dgn
 PROJECT: 148601
 FILE NAME: p:\01\Projects\148601\Task-Order\13162\M9204_CADD\CADD-Sheets\162\M92-ctc-stanord-21.dgn

USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
PLOT SCALE = 50,0000' / in.	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT DATE = 3/4/2019	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	DATE -	REVISED - C. IULIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
INFORMATION SIGN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-22			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

MODEL: P:\default
 FILE NAME: \\g:\01\Projects\148601\Task-Order\13162\M9204_CADD\CADD-Sheets\162\M92-ctc-stanord-21.dgn



USER NAME = gshowers	DESIGNED - HP	REVISED -
PLOT SCALE = 2' / in.	DRAWN - HP	REVISED -
PLOT DATE = 10/22/2021	CHECKED - RP/MG	REVISED -
	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT D1-TRAFFIC CONTROL STANDARDS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2020-218-L	LAKE	63	63
			CONTRACT NO. 62M92	
ILLINOIS FED. AID PROJECT				