

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333 342	*	LAKE	288	1
*12(VB-1&2)12R-1HB-2(BR)12-RS-2		ILLINOIS	CONTRACT NO. 60X40	

* 288-2 = 286 TOTAL SHEETS
D-91-022-13

INDEX OF SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE VILLAGE OF GURNEE AND THE CITIES OF WAUKEGAN AND PARK CITY

TRAFFIC DATA

ADT IL 120: 32,700 (2013), 51,600 (2036)
DESIGN SPEED = 55 MPH
POSTED SPEED = 50 MPH

PROJECT DESCRIPTION

THIS IS A BRIDGE REHABILITATION, SIGN STRUCTURE REPLACEMENT, AND RESURFACING PROJECT.

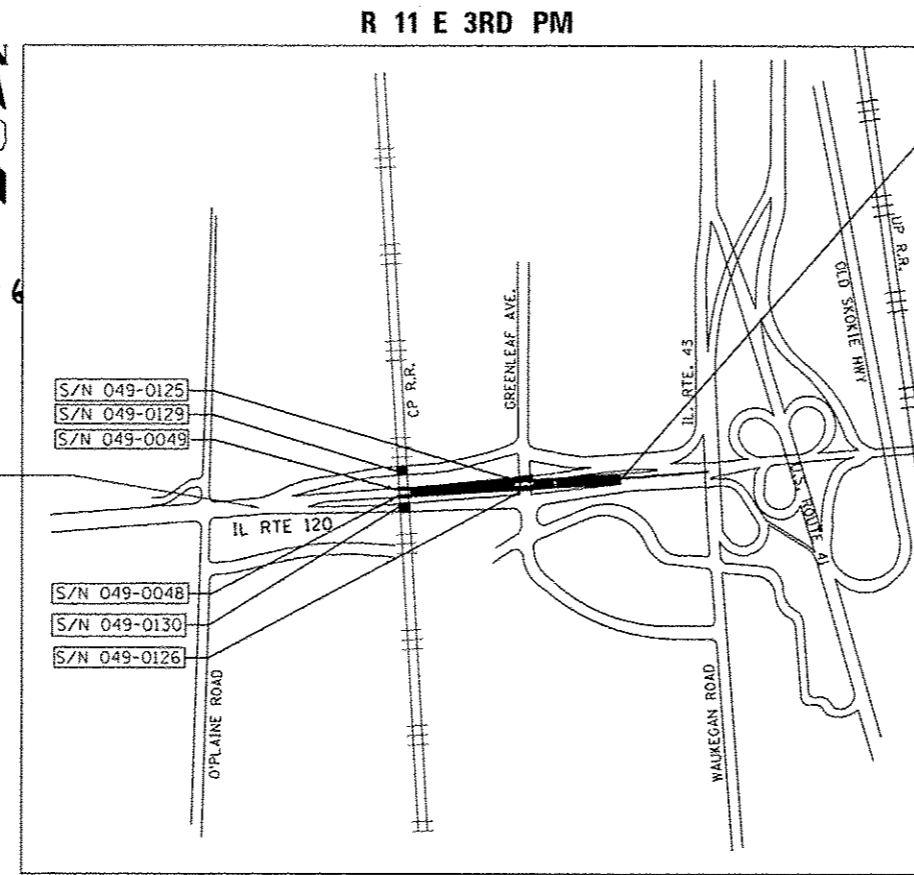
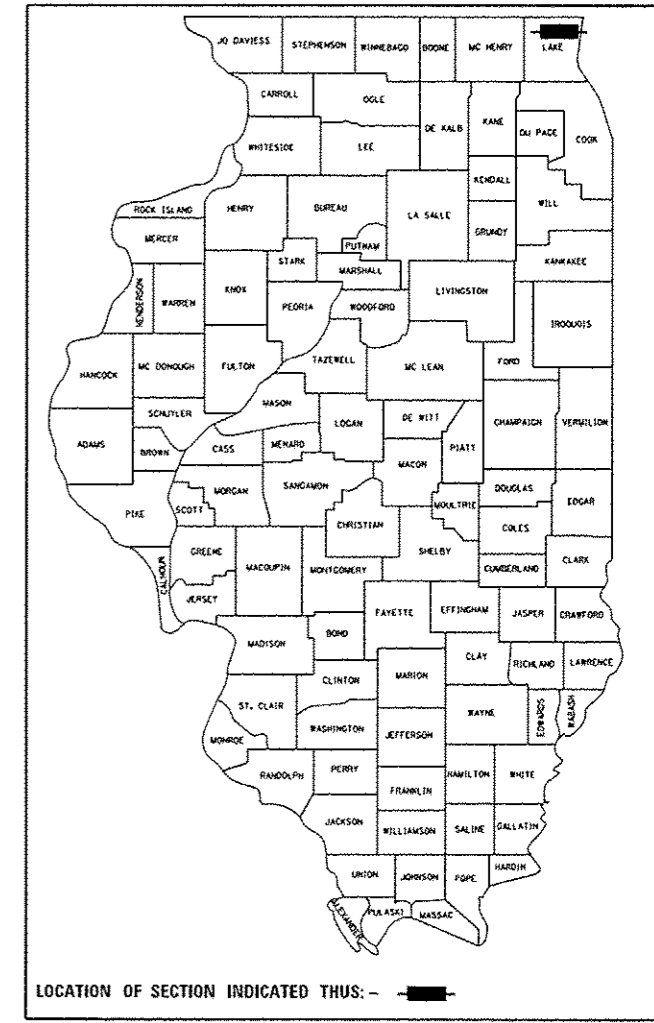
DESIGN DESIGNATION

OTHER PRINCIPAL ARTERIAL

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 333 / FAP 342 (IL RTE 120)
OVER CP RR, GREENLEAF STREET AND RAMPS
SECTION: 12(VB-1&2) & 12R-1HB-2(BR)RS-2
PROJECT NHPP-000V(120)
BRIDGE REHABILITATION & SIGN STRUCTURE
REPLACEMENT & RESURFACING

LAKE COUNTY
C-91-089-14



END PROJECT
STA. 485+00 MATCH
CONTRACT 60X39

BEGIN PROJECT
STA. 446+38.6

Signed *William J. Bartolucci*
William J. Bartolucci, P.E. Il. Lic. No. 062-059414
Expires 11-30-2017
Date 4/20/2017 Pages 72-74

Signed *Harjit Singh*
Harjit Singh, P.E. Il. Lic. No. 062-055489
Expires 11-30-2017
Date 4/20/2017 Pages 71, 75, 76, 77

STATE OF ILLINOIS
MOUSSA A. ISSA
081-005738
CHICAGO, ILLINOIS
REGISTERED STRUCTURAL ENGINEER

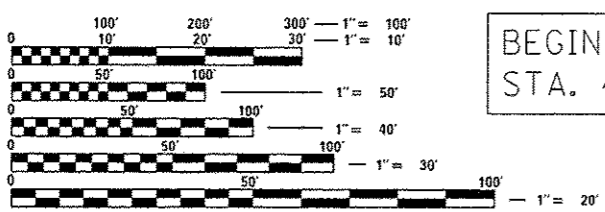
Signed *Moussa A. Issa*
Dr. Moussa A. Issa, S.E. Il. Lic. No. 081-005738
Expires 11-30-2018
Date 04/20/2017 Pages 197-251

JEFFREY S. ORZECH
062-053695
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

Signed *Jeffrey S. Orzech*
Jeffrey S. Orzech, P.E. Il. Lic. No. 06-053695
Expires 11-30-2017
Date 4/20/2017 Pages 170, 87-92, 252-288

NATHAN D. RICK
081-007039
REGISTERED STRUCTURAL ENGINEER STATE OF ILLINOIS

Signed *Nathan D. Rick*
Nathan D. Rick, S.E. Il. Lic. No. 081-007039
Expires 11-30-2018
Date 5/20/2017 Pages 93-196



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 EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: ANA ABREU (847) 705-4482
PROJECT MANAGER: HELEN PAZON (847) 705-4523

CONTRACT NO. 60X40

WARREN TOWNSHIP
LOCATION MAP

GROSS LENGTH = 3,861.4 FT. = 0.731 MILE
NET LENGTH = 3,861.4 FT. = 0.731 MILE

GRÄEF 8501 W. Higgins Road; Suite 280
Chicago, Illinois 60631
(773) 399-0112

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 4 2017
Maureen M. Addis REGIONAL ENGINEER
May 12 2017
Maureen M. Addis ENGINEER OF DESIGN AND ENVIRONMENT
May 12 2017
Maureen M. Addis DIRECTOR OF PROGRAM DEVELOPMENT 2

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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* Sheets 89 and 288 deleted

STD. NO.	TITLE
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-08	PAVEMENT JOINTS
420401-12	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH
442201-03	CLASS C AND D PATCHES
482006-03	HMA SHOULDER ADJACENT TO RIGID PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-02	METAL END SECTION FOR PIPE CULVERTS
542546-01	FLUSH INLET BOX FOR MEDIAN
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602401-03	MANHOLE TYPE A
602601-04	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS TYPE 1
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606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
610001-07	SHOULDER INLET WITH CURB
630001-11	STEEL PLATE BEAM GUARDRAIL
630301-07	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
631051-03	TRAFFIC BARRIER TERMINAL, TYPE 11
643001-02	SAND MODULE IMPACT ATTENUATORS
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) 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
701422-09	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ≥ 45 MPH
701431-12	LANE CLOSURE, MULTILANE, UNDIVIDED WITH CROSSOVER FOR SPEEDS ≥ 45 MPH TO 55 MPH
701601-09	URBAN LANE CLOSURE MULTILANE1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE MULTILANE INTERSECTION
701901-06	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORTS
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORTS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER AT WALTER.CZARNY@ILLINOIS.GOV AT LEAST (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.
- FOR DETAILS OF PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS NOT SHOWN ON THE PLANS, REFER TO DISTRICT ONE TYPICAL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS FOR FURTHER INFORMATION.
- THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A 404 PERMIT. IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING A USACE 404 PERMIT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER USACE PERMIT.
- ALL STATIONING SHOWN AS "+XX" REFERS TO ILLINOIS ROUTE 120 CENTERLINE STATIONING. STATIONING OFF OTHER ALIGNMENTS SHALL BE DENOTED AS "XXX+XX".
- THE COST FOR CONNECTING PROPOSED STORM SEWER TO EXISTING STORM SEWER OR TO EXISTING DRAINAGE STRUCTURES WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF THE VARIOUS STORM SEWER ITEMS.
- STATION/OFFSETS FOR DRAINAGE STRUCTURES WITHIN THE BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) ARE REFERENCED TO THE CENTER OF THE FRAME AND GRATE. STATION/OFFSET FOR END SECTIONS ARE REFERENCED TO THE OUTLET INVERT. STATION/OFFSET FOR ALL OTHER STRUCTURES ARE REFERENCED TO THE CENTER OF STRUCTURE.
- THE CONTRACTOR SHALL NOTIFY PACE'S TRANSPORTATION ENGINEER AT (847) 228-3584 AT LEAST 10 DAYS PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO ANY MAINTENANCE OF TRAFFIC STAGING CHANGES.
- 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 A CONSTRUCTION STAGING AREA APPROVAL AND AGREEMENT (DI OPO040) AND AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION I.I.G.1 AND 2 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.
- IDOT IS NOT PART OF "J.U.L.I.E." CONTACT IDOT EMC AT 708-524-2145 FOR CABLE LOCATES FOR IDOT MAINTAINED EQUIPMENT BEFORE START OF ANY WORK.
- THE CONTRACTOR SHALL MINIMIZE ANY DISTURBANCE TO EXISTING VEGETATION WITHIN THE CONSTRUCTION LIMITS. SHALL ANY DISTURBANCE OCCUR, THE CONTRACTOR SHALL RESTORE ITS EXISTING CONDITION AT THEIR OWN EXPENSE

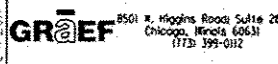
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GRAFTECH 5501 N. Higgins Road Suite 200 Chicago, Illinois 60631 (773) 399-0112	USER NAME = USER*	DESIGNED - JO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES		F.A.P. RTE. 333 142	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 2
	PLOT SCALE = 24.0000' / 1"	CHECKED - RS	REVISED -		PLOT DATE = 5/4/2017 - 5:05:35 PM	DATE = 08/26/2015	SCALE:	SHEET 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 60X40 ILLINOIS FED. AID PROJECT	

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	80% FED 20% STATE	80% FEDERAL 20% STATE						80% FED 20% STATE	80% FED 20% STATE
				0005 ROADWAY	S/N 049-0048 IL 120 EB OVER CPRR	S/N 049-0049 IL 120 WB OVER CPRR	S/N 049-0125 IL 120 WB OVER GREENLEAF	S/N 049-0126 IL 120 EB OVER GREENLEAF	S/N 049-0129 RAMP KW OVER CPRR	S/N 049-0130 RAMP WK OVER CPRR	0021 HIGHWAY LIGHTING	0004 SIGNING
20101000	TEMPORARY FENCE	FOOT	1,540	1,540								
20200100	EARTH EXCAVATION	CU YD	1,815	1,815								
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,155	1,155								
20800150	TRENCH BACKFILL	CU YD	195	195								
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	6,165	6,165								
25000210	SEEDING, CLASS 2A	ACRE	1.35	1.35								
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	122	122								
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	122	122								
25100115	MULCH, METHOD 2	ACRE	1.35	1.35								
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	405	405								
28000305	TEMPORARY DITCH CHECKS	FOOT	200	200								
28000400	PERIMETER EROSION BARRIER	FOOT	2,460	2,460								
28000500	INLET AND PIPE PROTECTION	EACH	2	2								
28000510	INLET FILTERS	EACH	32	32								
28100105	STONE RIPRAP, CLASS A3	SO YD	446		223	223						

* DENOTES SPECIALTY ITEM

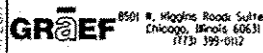
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 5501 N. Higgins Road Suite 200 Chicago, Illinois 60631 (773) 399-0912	USER NAME : BUSER	DESIGNED - JO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS SUMMARY OF QUANTITIES				F.A.P. RTE. 333 102	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE : 1/8"=1'-0"	DRAWN - ED	REVISED -		LAKE	28B	3						
PLOT DATE : 3/24/2017 2:40:54 PM	CHECKED - RS	REVISED -	CONTRACT NO. 60X40										
DATE : 08/26/2015	REVISED -	SCALE: NONE	SHEET 1 OF 12 SHEETS		STA. TO STA.	ILLINOIS FED. AID PROJECT							

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	URBAN	80% FED 20% STATE	80% FEDERAL 20% STATE				0014 REHABILITATION		80% FED 20% STATE	80% FED 20% STATE
				0005 ROADWAY	S/N 049-0048 IL 120 EB OVER CPRR	S/N 049-0049 IL 120 WB OVER CPRR	S/N 049-0125 IL 120 WB OVER GREENLEAF	S/N 049-0126 IL 120 EB OVER GREENLEAF	S/N 049-0129 RAMP KW OVER CPRR	S/N 049-0130 RAMP WK OVER CPRR	0021 HIGHWAY LIGHTING	0004 SIGNING	
28100107	STONE RIPRAP, CLASS A4	SQ YD	129	129									
28200200	FILTER FABRIC	SQ YD	637	129	254	254							
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	2,936	2,936									
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	3,695	3,695									
31102100	SUBBASE GRANULAR MATERIAL, TYPE C 4"	SQ YD	270	270									
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	12,276	12,276									
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	224	224									
40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	1,338	1,338									
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	811	811									
42001300	PROTECTIVE COAT	SQ YD	871	871									
44000100	PAVEMENT REMOVAL	SQ YD	4,705	4,705									
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	13,651	13,651									
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	8,705	8,705									
44000400	GUTTER REMOVAL	FOOT	305	305									
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	116	116									

* DENOTES SPECIALTY ITEM

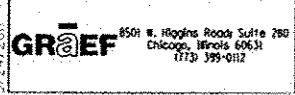
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 8501 W. Higgins Road, Suite 280 Chicago, Illinois 60631 773.399.0912	USER NAME = *USER* PLOT SCALE = 1/8" = 1'-0" PLOT DATE = 3/24/2017 2:40:54 PM	DESIGNED - JO DRAWN - ED CHECKED - RS DATE - 08/26/2015	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS SUMMARY OF QUANTITIES	SCALE: NONE SHEET 2 OF 12 SHEETS STA. TO STA.	F.A.P. RTE. 132 SECTION * COUNTY LAKE TOTAL SHEETS 288 SHEET NO. 4 CONTRACT NO. 60X40 ILLINOIS FED. AID PROJECT
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PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	URBAN 80% FED 20% STATE 0005 ROADWAY	80% FEDERAL 20% STATE				0014 REHABILITATION		80% FED 20% STATE	80% FED 20% STATE
					S/N 049-0048 IL 120 EB OVER CPRR	S/N 049-0049 IL 120 WB OVER CPRR	S/N 049-0125 IL 120 WB OVER GREENLEAF	S/N 049-0126 IL 120 EB OVER GREENLEAF	S/N 049-0129 RAMP KW OVER CPRR	S/N 049-0130 RAMP WK OVER CPRR	0021 HIGHWAY LIGHTING	0004 SIGNING
44004250	PAVED SHOULDER REMOVAL	SO YD	1,552	1,552								
44201353	CLASS C PATCHES, TYPE II, 10 INCH	SO YD	191	191								
44201359	CLASS C PATCHES, TYPE IV, 10 INCH	SO YD	67	67								
44201721	CLASS D PATCHES, TYPE III, 6 INCH	SO YD	16	16								
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SO YD	231	231								
48101620	AGGREGATE SHOULDERS, TYPE B 10"	SO YD	1,341	1,341								
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	282	282								
48203005	HOT-MIX ASPHALT SHOULDERS, 2"	SO YD	6,381	6,381								
48203007	HOT-MIX ASPHALT SHOULDERS, 2 1/2"	SO YD	3,377	3,377								
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SO YD	887	887								
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SO YD	1,936	1,936								
50102400	CONCRETE REMOVAL	CU YD	191		38	38	30	31	27	27		
50104000	BRIDGE RAIL REMOVAL	FOOT	1,040				505	535				
50104650	SLOPE WALL REMOVAL	SO YD	1,152				583	569				
50104701	REMOVAL OF EXISTING CONCRETE DECK No. 1	EACH	1		1							

* DENOTES SPECIALTY ITEM

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PLOT DATE: 3/24/2017 2:40:54 PM	CHECKED: RS	REVISED:
	DATE: 08/26/2015	REVISED:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
SUMMARY OF QUANTITIES

SCALE: NONE SHEET 3 OF 12 SHEETS STA. TO STA.

F.A.P. RTE. 333 342	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12(VB-18.2)&12R-1(B)-2(B)&12-RS-2		LAKE	288	5
CONTRACT NO. 60X40			ILLINOIS FED. AID PROJECT	

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	URBAN	80% FED 20% STATE	80% FEDERAL 20% STATE				0014 REHABILITATION		80% FED 20% STATE	80% FED 20% STATE
						S/N 049-0048 IL 120 EB OVER CPRR	S/N 049-0049 IL 120 WB OVER CPRR	S/N 049-0125 IL 120 WB OVER GREENLEAF	S/N 049-0126 IL 120 EB OVER GREENLEAF	S/N 049-0129 RAMP KW OVER CPRR	S/N 049-0130 RAMP WK OVER CPRR	0021 HIGHWAY LIGHTING	0004 SIGNING
50104702	REMOVAL OF EXISTING CONCRETE DECK No. 2	EACH	1				1						
50104703	REMOVAL OF EXISTING CONCRETE DECK No. 3	EACH	1						1				
50104704	REMOVAL OF EXISTING CONCRETE DECK No. 4	EACH	1							1			
50104705	REMOVAL OF EXISTING CONCRETE DECK No. 5	EACH	1				1						
50104706	REMOVAL OF EXISTING CONCRETE DECK No. 6	EACH	1					1					
50157300	PROTECTIVE SHIELD	SO YD	5,002			593	593	1,311	1,329	588	588		
50200100	STRUCTURE EXCAVATION	CU YD	1,210			243	243	203	197	162	162		
50300100	FLOOR DRAINS	EACH	32			8	8			8	8		
50300225	CONCRETE STRUCTURES	CU YD	359.0			88.0	88.0	56.7	58.3	34.0	34.0		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	1,608.5			210.0	210.0	372.8	381.7	217.0	217.0		
50300260	BRIDGE DECK GROOVING	SO YD	6,255			750	750	1,649	1,622	742	742		
50300300	PROTECTIVE COAT	SO YD	7,609			984	984	1,838	1,881	961	961		
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	739.6			101.0	101.0	163.8	167.8	103.0	103.0		
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	32,520			4,040	4,050	9,370	9,360	2,860	2,840		
50500505	STUD SHEAR CONNECTORS	EACH	14,460			2,465	2,465	2,160	2,160	2,605	2,605		

* DENOTES SPECIALTY ITEM

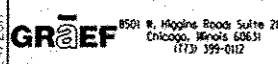
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GROEF 8501 N. Higgins Road, Suite 280 Chicago, Illinois 60631 (773) 395-0112	USER NAME : JGUSER	DESIGNED : JD	REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS SUMMARY OF QUANTITIES			F.A.P. RTE. 333 342	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE : 1/8"=1'-0"	DRAWN : ED	REVISED :					LAKE	288	6		
	PLOT DATE : 3/24/2015 2:48:54 PM	CHECKED : RS	REVISED :					CONTRACT NO. 60X40 ILLINOIS FED. AID PROJECT				
				SCALE: NONE SHEET 4 OF 12 SHEETS STA. TO STA.								

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	URBAN	80% FED	80% FEDERAL 20% STATE						0014 REHABILITATION	80% FED	80% FED
					20% STATE	0005 ROADWAY	S/N 049-0048 IL 120 EB OVER CPRR	S/N 049-0049 IL 120 WB OVER CPRR	S/N 049-0125 IL 120 WB OVER GREENLEAF	S/N 049-0126 IL 120 EB OVER GREENLEAF	S/N 049-0129 RAMP KW OVER CPRR	S/N 049-0130 RAMP WK OVER CPRR	0021 HIGHWAY LIGHTING	0004 SIGNING
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	633,410				87,265	87,265	144,834	145,806	84,120	84,120		
50800515	BAR SPLICERS	EACH	362				64	64	116	118				
51100100	SLOPE WALL 4 INCH	SO YD	1,200						606	594				
51500100	NAME PLATES	EACH	6				1	1	1	1	1	1		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	603				71	71	228	233				
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	104				10	10	32	32	10	10		
52100520	ANCHOR BOLTS, 1"	EACH	544				40	40	192	192	40	40		
5421A012	PIPE CULVERTS, CLASS A, TYPE 1 12" (TEMPORARY)	FOOT	411		411									
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	3		3									
54215547	METAL END SECTIONS 12"	EACH	8		8									
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	1		1									
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	825		825									
55100300	STORM SEWER REMOVAL 8"	FOOT	108		108									
58700300	CONCRETE SEALER	SO FT	818						398	420				
59000200	EPOXY CRACK INJECTION	FOOT	67						39	28				

* DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
SUMMARY OF QUANTITIES

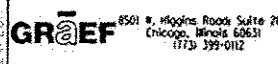
SCALE: NONE SHEET 5 OF 12 SHEETS STA. TO STA.

F.A.P. RTE. 333 342	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	288	7
* 12(CB-182)12R-1HB-210R1812-R5-2 CONTRACT NO. 60X40				
ILLINOIS FED. AID PROJECT				

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	80% FED 20% STATE	80% FEDERAL 20% STATE				0014 REHABILITATION		80% FED 20% STATE	80% FED 20% STATE
				0005 ROADWAY	S/N 049-0048 IL 120 EB OVER CPRR	S/N 049-0049 IL 120 WB OVER CPRR	S/N 049-0125 IL 120 WB OVER GREENLEAF	S/N 049-0126 IL 120 EB OVER GREENLEAF	S/N 049-0129 RAMP KW OVER CPRR	S/N 049-0130 RAMP WK OVER CPRR	0021 HIGHWAY LIGHTING	0004 SIGNING
59100100	GEOCOMPOSITE WALL DRAIN	FOOT	443		52	52	114	115	55	55		
60100945	PIPE DRAINS 12"	FOOT	466	466								
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	12	12								
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	12	12								
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1								
60500060	REMOVING INLETS	EACH	8	8								
60600605	CONCRETE CURB, TYPE B	FOOT	360	360								
60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	157	157								
61000050	CONCRETE THRUST BLOCKS	EACH	8	8								
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	200	200								
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	3,638	3,638								
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1								
* 63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	7	7								
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	12	12								
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	7	7								

* DENOTES SPECIALTY ITEM

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 4501 N. Higgins Road, Suite 280 Chicago, Illinois 60631 (773) 399-0112	USER NAME - USER*	DESIGNED - JD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS SUMMARY OF QUANTITIES	F.A.P. RTE. 133 182	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE - 1/8"=1'-0"	DRAWN - ED	REVISED -			LAKE	288	8		
	PLOT DATE - 8/26/2015 2:40:55 PM	CHECKED - RS	REVISED -			CONTRACT NO. 60X40 ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET 6 OF 12 SHEETS STA. TO STA.

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	80% FED 20% STATE	80% FEDERAL 20% STATE						80% FED 20% STATE	80% FED 20% STATE
					0014 REHABILITATION							
				0005 ROADWAY	S/N 049-0048 IL 120 EB OVER CPRR	S/N 049-0049 IL 120 WB OVER CPRR	S/N 049-0125 IL 120 WB OVER GREENLEAF	S/N 049-0126 IL 120 EB OVER GREENLEAF	S/N 049-0129 RAMP KW OVER CPRR	S/N 049-0130 RAMP WK OVER CPRR	0021 HIGHWAY LIGHTING	0004 SIGNING
63200310	GUARDRAIL REMOVAL	FOOT	4,768	4,768								
63800920	MODULAR GLARE SCREEN SYSTEM, TEMPORARY	FOOT	3,413	3,413								
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1,550.25	1,550.25								
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1.00	1.00								
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	6	6								
67100100	MOBILIZATION	L SUM	1	1								
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1,960	1,960								
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	653	653								
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	36	36								
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	31,412	31,412								
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	130	130								
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	4,102	4,102								
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	310	310								
70400100	TEMPORARY CONCRETE BARRIER	FOOT	3,738	3,738								
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	9,075	9,075								

* DENOTES SPECIALTY ITEM

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 5501 E. Higgins Road Suite 280 Chicago, Illinois 60631 (773) 599-0112	USER NAME - RUSEPA	DESIGNED - JO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS SUMMARY OF QUANTITIES	F.A.P. RTE. 333 142	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE - 1/8"=1'-0"	DRAWN - ED	REVISED -				LAKE	288	9	
	PLOT DATE - 3/24/2017 2:48:55 PM	CHECKED - RS	REVISED -				CONTRACT NO. 60X40	ILLINOIS FED. AID PROJECT		

SCALE: NONE SHEET 7 OF 12 SHEETS STA. TO STA.

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	URBAN	80% FED 20% STATE	80% FEDERAL 20% STATE						0014 REHABILITATION	80% FED 20% STATE	80% FED 20% STATE
					0005 ROADWAY	S/N 049-0048 IL 120 EB OVER CPRR	S/N 049-0049 IL 120 WB OVER CPRR	S/N 049-0125 IL 120 WB OVER GREENLEAF	S/N 049-0126 IL 120 EB OVER GREENLEAF	S/N 049-0129 RAMP KW OVER CPRR	S/N 049-0130 RAMP WK OVER CPRR	0021 HIGHWAY LIGHTING	0004 SIGNING	
70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	1,080		1,080									
70500690	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE II	EACH	20		20									
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1		1									
70600270	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	EACH	2		2									
70600330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	1		1									
* 72000300	SIGN PANEL - TYPE 3	SO FT	1,495											1,495
* 72400330	REMOVE SIGN PANEL - TYPE 3	SO FT	1,558											1,558
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	7		7									
* 72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	3,496											3,496
* 73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	158											158
* 73302210	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	FOOT	68											68
* 73400100	CONCRETE FOUNDATIONS	CU YD	8.4											8.4
* 73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	41.1											41.1
* 73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	2											2
* 73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	4											4

* DENOTES SPECIALTY ITEM

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GRAEF 8501 N. Higgins Road Suite 280
 Chicago, Illinois 60631
 (773) 395-0112

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

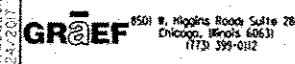
IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
SUMMARY OF QUANTITIES
 SCALE: NONE SHEET 8 OF 12 SHEETS STA. TO STA.

F.A.P. RTE. 333 382	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 10
* 12(VB-182)&12R-1MB-2(BR)&12-RS-2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X40	

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	URBAN	80% FED 20% STATE	80% FEDERAL 20% STATE				0014 REHABILITATION		80% FED 20% STATE	80% FED 20% STATE
					0005 ROADWAY	S/N 049-0048 IL 120 EB OVER CPRR	S/N 049-0049 IL 120 WB OVER CPRR	S/N 049-0125 IL 120 WB OVER GREENLEAF	S/N 049-0126 IL 120 EB OVER GREENLEAF	S/N 049-0129 RAMP KW OVER CPRR	S/N 049-0130 RAMP WK OVER CPRR	0021 HIGHWAY LIGHTING	0004 SIGNING
* 81603081	UNIT DUCT, 600V, 3-1/C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	1,459									1,459	
* 81800300	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	1,072									1,072	
* 82105700	LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750 WATT	EACH	8									8	
* 83503500	LIGHT TOWER, 110 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8	EACH	2									2	
* 83700300	LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	32									32	
* 84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	2									2	
* 84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	23										23
* 84400405	RELOCATE EXISTING WOOD POLES	EACH	3									3	
* X0327349	TEMPORARY WOOD POLE, 40 FT., CLASS 4	EACH	6									6	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	11,107		11,107								
* X1400190	REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	4									4	
X2511630	EROSION CONTROL BLANKET (SPECIAL)	SO YD	6,165		6,165								
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	867			105	105	221	214	111	111		
X6380200	RELOCATE MODULAR GLARE SCREEN SYSTEM	FOOT	3,375		3,375								
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	14		14								

* DENOTES SPECIALTY ITEM

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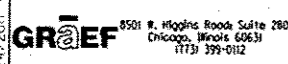
 8501 N. Higgins Road Suite 280 Chicago, Illinois 60631 (773) 399-0122	USER NAME: kuserk	DESIGNED: JO	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS SUMMARY OF QUANTITIES				F.A.P. RTE. 333 132	SECTION #	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 12
	PLOT SCALE: 1/8"=1'-0"	CHECKED: RS	REVISIONS:						CONTRACT NO. 60X40				
	PLOT DATE: 3/24/2017 2:48:55 PM	DATE: 08/26/2015	REVISIONS:						ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET 10 OF 12 SHEETS STA. TO STA.

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	URBAN 80% FED 20% STATE 0005 ROADWAY	80% FEDERAL 20% STATE				0014 REHABILITATION		80% FED 20% STATE	80% FED 20% STATE
					S/N 049-0048 IL 120 EB OVER CPRR	S/N 049-0049 IL 120 WB OVER CPRR	S/N 049-0125 IL 120 WB OVER GREENLEAF	S/N 049-0126 IL 120 EB OVER GREENLEAF	S/N 049-0129 RAMP KW OVER CPRR	S/N 049-0130 RAMP WK OVER CPRR	0021 HIGHWAY LIGHTING	0004 SIGNING
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1								
X7010240	TRAFFIC CONTROL SURVEILLANCE (SPECIAL)	CAL DA	215	215								
X7010410	SPEED DISPLAY TRAILER	CAL MD	10	10								
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAYS	270	270								
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	11,809	11,809								
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	1,926	1,926								
X8130125	REMOVE EXISTING JUNCTION BOX	EACH	2								2	
* X8420502	REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	1								1	
* X8420510	REMOVAL OF TOWER FOUNDATION	EACH	2								2	
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	136		10	10	48	48	10	10		
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	3,480		1,740	1,740						
Z0004552	APPROACH SLAB REMOVAL	SO YD	772	772								
Z0010400	CLEANING BRIDGE SEATS	SO FT	1,531		77	77	597	610	85	85		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH 5 INCHES)	SO FT	394.2		2.0	10.9	116.0	183.0	24.2	58.1		
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH > 5 INCHES)	SO FT	129.0				48.0	81.0				

* DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS

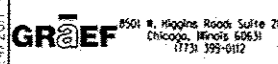
SCALE: NONE SHEET 11 OF 12 SHEETS STA. TO STA.

P.A.P. R.T.E. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 13
* 12(VB-1&2)&12R-1HB-2(BR)&12-R5-2		CONTRACT NO. 60X40		
ILLINOIS FED. AID PROJECT				

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	URBAN 80% FED 20% STATE	80% FEDERAL 20% STATE						0014 REHABILITATION		80% FED 20% STATE	80% FED 20% STATE
					0005 ROADWAY	S/N 049-0048 IL 120 EB OVER CPRR	S/N 049-0049 IL 120 WB OVER CPRR	S/N 049-0125 IL 120 WB OVER GREENLEAF	S/N 049-0126 IL 120 EB OVER GREENLEAF	S/N 049-0129 RAMP KW OVER CPRR	S/N 049-0130 RAMP WK OVER CPRR	0021 HIGHWAY LIGHTING	0004 SIGNING	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1										
Z0018002	DRAINAGE SCUPPERS, DS II	EACH	12				6	6						
Z0018800	DRAINAGE SYSTEM	L SUM	1				0.5	0.5						
Z0019600	DUST CONTROL WATERING	UNIT	10	10										
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	397	397										
Z0033028	MAINTAIN EXISTING LIGHTING SYSTEM	CAL MON	14									14		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	885		120	120	147	150	174	174				
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	1										
Z0062456	TEMPORARY PAVEMENT	SO YD	3,695	3,695										
Z0064800	SELECTIVE CLEARING	UNIT	9	9										
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	7	7										

* DENOTES SPECIALTY ITEM

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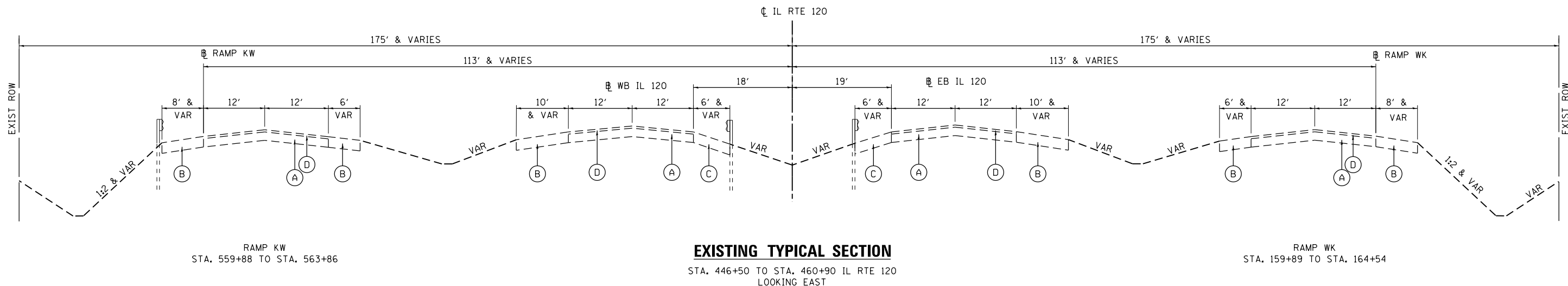
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS

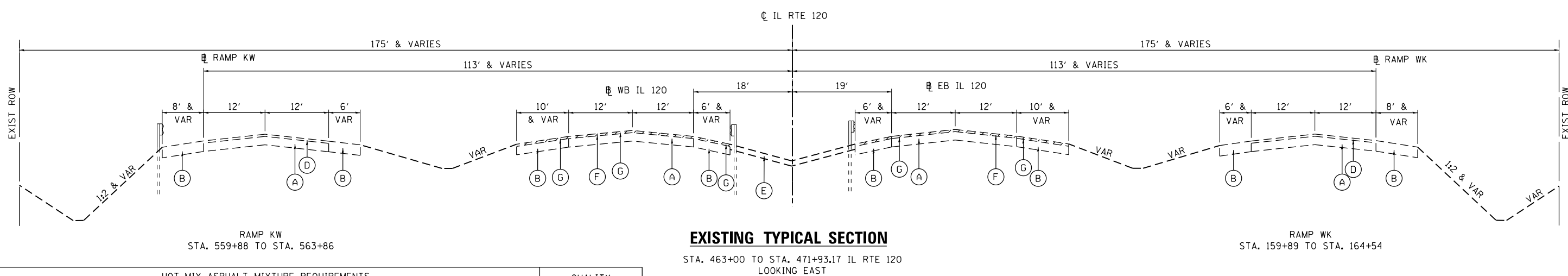
SCALE: NONE SHEET 12 OF 12 SHEETS STA. TO STA.

F.A.P. RTE. 333 142	SECTION	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 14
* 12(VB-18,218,12R-1)B-2(BR)12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION

STA. 446+50 TO STA. 460+90 IL RTE 120
LOOKING EAST



EXISTING TYPICAL SECTION

STA. 463+00 TO STA. 471+93.17 IL RTE 120
LOOKING EAST

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS @ Ndes	
ROADWAY RESURFACING (485+00 TO GREENLEAF AVE) & RAMPS KW, WK & IL 120 APPROACH RESURFACING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5mm) 2"	4% @ 70 GYR	OCP
ROADWAY RESURFACING (GREENLEAF AVE TO CP RR)		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5mm) 1 3/4"	4% @ 70 GYR	OCP
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	3.5% @ 50 GYR	QC/OA
HOT-MIX ASPHALT SHOULDERS, 2"		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5mm) 2"	4% @ 70 GYR	OCP
HOT-MIX ASPHALT SHOULDERS, 2 1/2" (GREENLEAF AVE TO CP RR)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm) 1 3/4"	4% @ 70 GYR	QC/OA
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	3.5% @ 50 GYR	QC/OA
HOT-MIX ASPHALT SHOULDERS, 6"		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm) 2"	4% @ 70 GYR	QC/OA
HMA SHOULDER, 4" (HMA BINDER IL-19mm)	4% @ 70 GYR	QC/OA
HOT-MIX ASPHALT SHOULDERS, 10"		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm) 2"	4% @ 70 GYR	QC/OA
HMA SHOULDER, 8" (HMA BINDER IL-19mm)	4% @ 70 GYR	QC/OA
TEMPORARY PAVEMENT, 10"		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm) 2"	4% @ 70 GYR	QC/OA
TEMP PAVEMENT (HMA BINDER IL-19mm), 8"	4% @ 70 GYR	QC/OA
PATCHING		
CLASS D PATCH (HMA BINDER IL-19mm), 6"	4% @ 70 GYR	QC/OA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA), QUALITY CONTROL FOR PERFORMANCE (OCP)		

EXISTING LEGEND

- (A) P.C.C. PAVEMENT, 10"
- (B) HMA SHOULDER, 12 1/2"
- (C) AGGREGATE SHOULDER, 10" & VAR.
- (D) HMA SURFACE, 3"
- (E) HMA SHOULDER, 6" & VAR.
- (F) HMA SURFACE, 2 1/2"
- (G) HMA SURFACE REMOVAL, 2 1/2"

HOT-MIX ASPHALT MIXTURE REQUIREMENTS NOTES

- 1 THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE A IS 112 LBS/SQ YD/IN.
- 2 THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
- 3 FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.
- 4 QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE
- 5 *PCC TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ARTICLE 1020 OF THE STANDARD SPECIFICATIONS. PCC THICKNESS SHALL BE 8"
- 6 TEMPORARY PAVEMENT USING EITHER HMA OR PCC OPTION SHALL BE PLACED ON A SUBBASE GRANULAR MATERIAL, TYPE B, 4". THE COST OF THE GRANULAR SUBBASE MATERIAL SHALL BE INCLUDED IN THE COST OF EITHER TEMPORARY HMA OR PCC PAVEMENT. DOWEL BARS ARE NOT REQUIRED.

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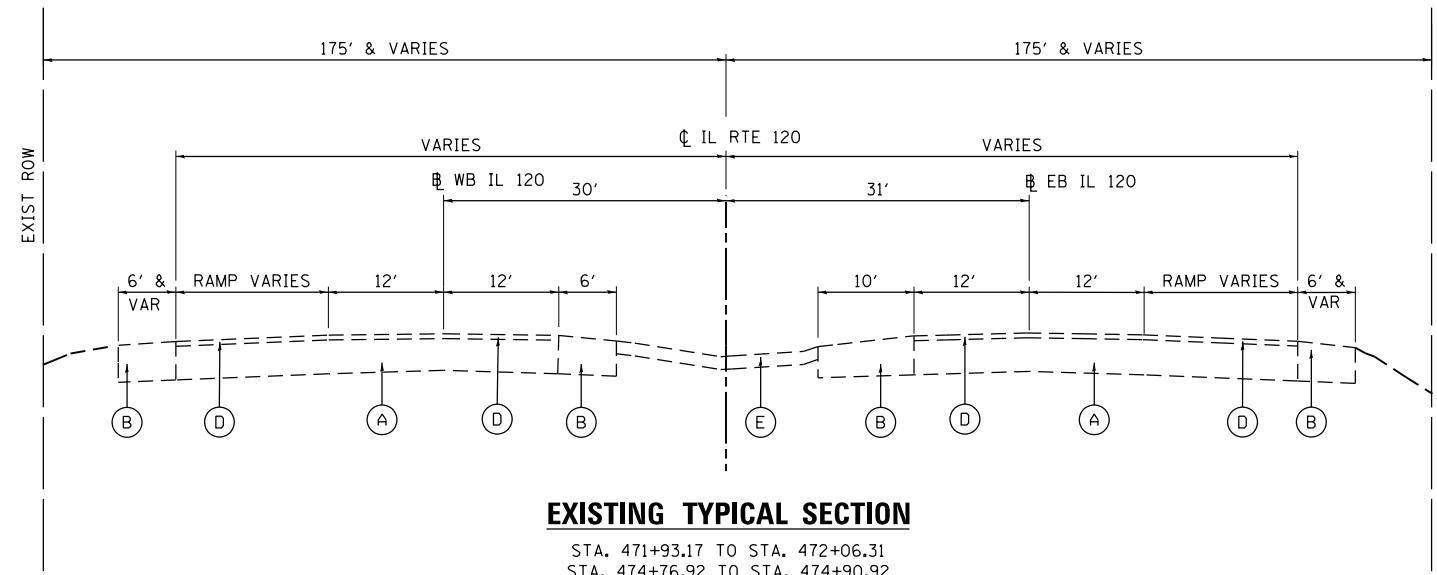


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

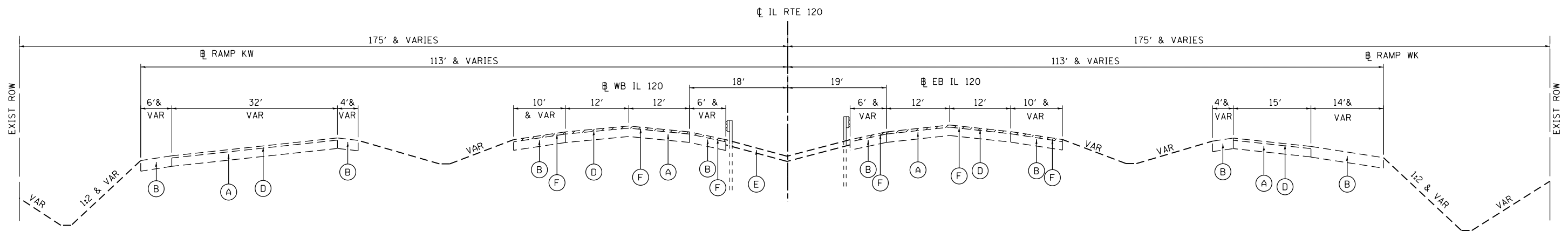
IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS			
TYPICAL SECTIONS			
SCALE:	SHEET 1	OF 4 SHEETS	STA. TO STA.

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 15
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION

STA. 471+93.17 TO STA. 472+06.31
 STA. 474+76.92 TO STA. 474+90.92
 LOOKING EAST



EXISTING TYPICAL SECTION

RAMP KW
 STA. 274+92.46 TO STA. 285+00

WESTBOUND IL RTE 120
 STA. 474+90.92 TO STA. 485+00, LT

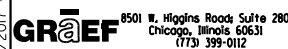
EASTBOUND IL RTE 120
 STA. 474+90.92 TO STA. 485+00, RT

RAMP KW
 STA. 174+90.64 TO STA. 185+00

EXISTING LEGEND

- (A) P.C.C. PAVEMENT, 10"
- (B) HMA SHOULDER, 12 1/2"
- (C) AGGREGATE SHOULDER, 10" & VAR.
- (D) HMA SURFACE, 3"
- (E) HMA SHOULDER, 6" & VAR.
- (F) HMA SURFACE REMOVAL, 2"

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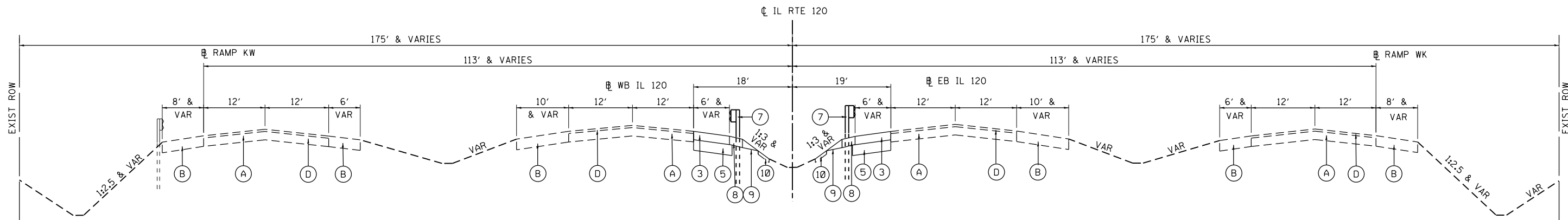
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

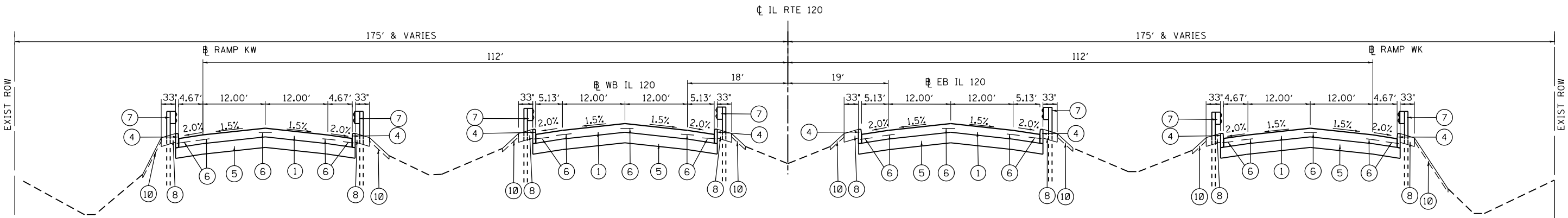
**IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
 TYPICAL SECTIONS**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

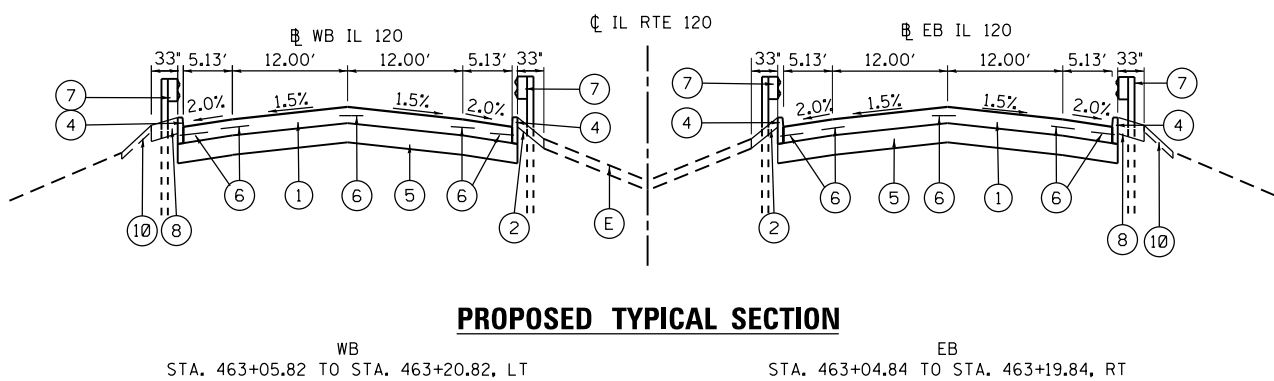
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333 342	*	LAKE	288	16
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION
 STA. 446+50 TO STA. 460+73 IL RTE 120
 LOOKING EAST



PROPOSED TYPICAL SECTION



PROPOSED TYPICAL SECTION

EXISTING LEGEND

- (A) P.C.C. PAVEMENT, 10"
- (B) HMA SHOULDER, 12 1/2"
- (C) AGGREGATE SHOULDER, 10" & VAR.
- (D) HMA SURFACE, 3"
- (E) HMA SHOULDER, 6" & VAR.

PROPOSED LEGEND

- (1) PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB (THICKNESS VARIES). SEE HWY STD 420401.
- (2) HMA SHOULDER, 6"
- (3) HMA SHOULDER, 10"
- (4) CONCRETE CURB TYPE B
- (5) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (6) EPOXY COATED, DEFORMED NO.6 TIE BARS, 30" LONG AT 24" C-C. COST INCIDENTAL TO BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)
- (7) STEEL PLATE BEAM GUARDRAIL TYPE A, 9' POSTS
- (8) AGGREGATE SHOULDER, TYPE B, 10"
- (9) AGGREGATE WEDGE SHOULDER, TYPE B
- (10) TOPSOIL, FURNISH & PLACE 4", FERTILIZER NUTRIENTS, SEEDING CLASS 2A & EROSION CONTROL BLANKET

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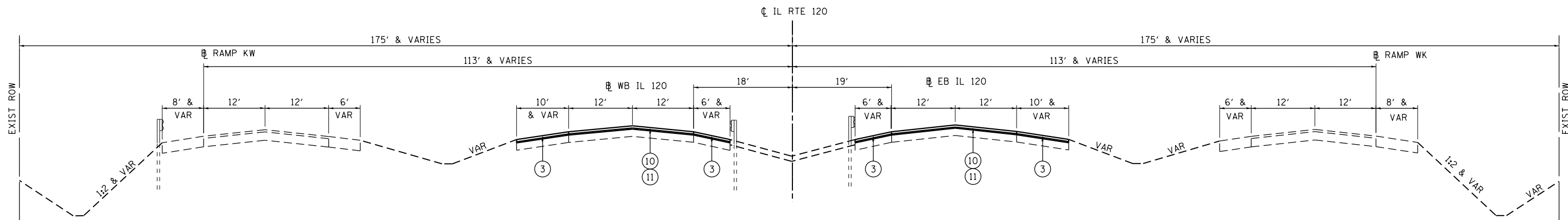


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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS			
TYPICAL SECTIONS			
SCALE:	SHEET 3	OF 4 SHEETS	STA. TO STA.

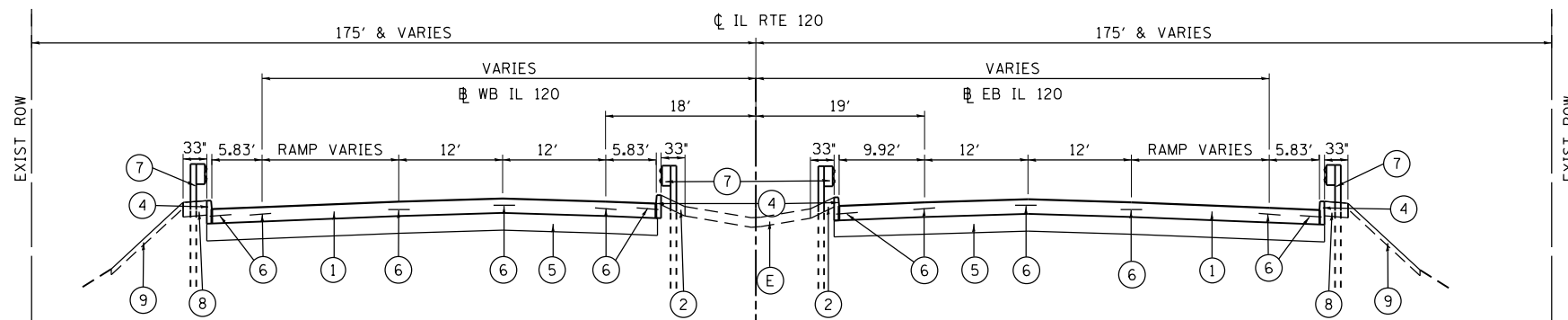
F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 17
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2		CONTRACT NO. 60X40		
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION
 STA. 463+20.82 TO STA. 471+92 IL RTE 120
 LOOKING EAST

RAMP KW
 STA. 563+00 TO STA. 572+09

RAMP WK
 STA. 163+00 TO STA. 172+04



PROPOSED TYPICAL SECTION

WESTBOUND IL RTE 120
 STA. 471+92.64 TO STA. 472+07.64, LT.
 STA. 474+77.46 TO STA. 474+92.46, LT

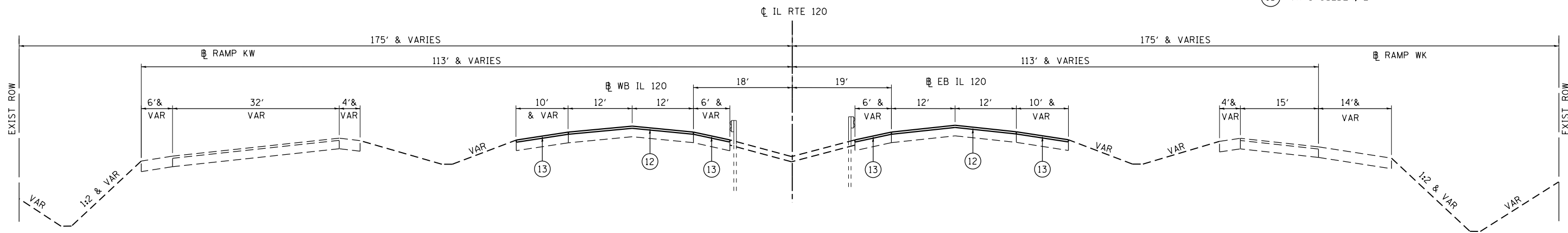
EASTBOUND IL RTE 120
 STA. 471+90.89 TO STA. 472+05.89, RT.
 STA. 474+75.64 TO STA. 474+90.64, RT

EXISTING LEGEND

- (A) P.C.C. PAVEMENT, 10"
- (B) HMA SHOULDER, 12 1/2"
- (C) AGGREGATE SHOULDER, 10" & VAR.
- (D) HMA SURFACE, 3"
- (E) HMA SHOULDER, 6" & VAR.

PROPOSED LEGEND

- (1) PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB (THICKNESS VARIES). SEE HWY STD 420401.
- (2) HMA SHOULDER, 6"
- (3) HMA SHOULDER, 2 1/2"
- (4) CONCRETE CURB TYPE B
- (5) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (6) EPOXY COATED, DEFORMED NO.6 TIE BARS, 30" LONG AT 24" C-C. COST INCIDENTAL TO BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)
- (7) STEEL PLATE BEAM GUARDRAIL TYPE A, 9' POSTS
- (8) AGGREGATE SHOULDER, TYPE B, 10"
- (9) TOPSOIL, FURNISH & PLACE 4", FERTILIZER NUTRIENTS, SEEDING CLASS 2A & EROSION CONTROL BLANKET
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 3/4"
- (11) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (12) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 2"
- (13) HMA SHOULDER, 2"



PROPOSED TYPICAL SECTION

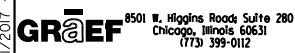
RAMP EK TO L
 STA. 174+96 TO STA. 178+58

WESTBOUND IL RTE 120
 STA. 474+92.46 TO STA. 485+00, LT

EASTBOUND IL RTE 120
 STA. 474+90.64 TO STA. 485+00, RT

RAMP KE TO M
 STA. 275+00 TO STA. 281+39

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
 TYPICAL SECTIONS

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 18
* 12(VB-1&2)12R-1HB-2(BR)12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

ROADWAY EARTHWORK SCHEDULE

MOT EARTHWORK SCHEDULE

Table with 13 columns: Station, Excavation (Left/Right), Unsuitable Removal (Left/Right), Embankment (Left/Right), and Volumes (Excavation/Removal/Embankment) in SQ FT and CU YD.

Table with 13 columns: Station, Excavation (Left/Right), Unsuitable Removal (Left/Right), Embankment (Left/Right), and Volumes (Excavation/Removal/Embankment) in SQ FT and CU YD.

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DESIGNED - JO
REVISIONS: DRAWN - ED, CHECKED - RS, DATE - 08/26/2015

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
EARTHWORK SCHEDULE
SCALE: NONE SHEET 1 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
333 342 * LAKE ILLINOIS FED. AID PROJECT
CONTRACT NO. 60X40

PAVEMENT REMOVAL						
LOCATION		APPROACH SLAB REMOVAL	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
FROM	TO	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
560+51	560+71				73.2	
560+71	560+97		64.3			
560+71	561+17			54.7		
560+92	561+17	51.4				
562+75	562+95	51.4				
562+75	563+21			53.4		
562+98	563+21		65.9			
563+21	563+81				221.9	
460+58	460+73				52.9	
460+73	460+99		67.2			
460+73	461+19			56.7		
460+99	461+19	50.7				
462+75	462+95	51.2				
462+75	463+20			29.6		
462+95	463+20		68.2			
463+21	471+92					4515.0
462+83	463+21			11.6		
460+57	460+72				45.6	
460+72	460+99		68.7			
460+72	461+19			29.3		
460+99	461+19	51.4				
462+74	462+94	51.9				
462+74	463+19			59.0		
462+94	463+19		69.0			
463+20	471+91					4189.5
462+83	463+20			11.3		
160+39	160+69				111.2	
160+69	161+15			49.7		
160+69	160+95		69.1			
160+95	161+15	52.8				
162+73	162+93	52.0				
162+73	163+19			52.6		
162+93	163+19		66.3			
163+19	163+49				111.2	
471+92	472+38			65.2		
471+92	472+18		114.0			
472+18	472+38	87.4				
471+92	472+25			10.1		
474+45	474+65	97.8				
474+45	474+92			62.4		
474+65	474+92		132.2			
474+92	485+00				5797.8	
474+58	474+93			10.5		
471+90	472+37			90.7		
471+90	472+17		106.8			
472+17	472+37	85.3				

PAVEMENT REMOVAL						
LOCATION		APPROACH SLAB REMOVAL	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
471+91	472+24			10.1		
474+43	474+63	88.1				
474+43	474+90			79.8		
474+63	474+90		118.7			
474+90	485+00				7237.6	
474+58	474+91			10.0		
474+92	477+84			535.2		
TOTAL		772.0	1010.0	1282.0	13651.0	8705.0

GUTTER REMOVAL			
FROM	TO	OFFSET	LENGTH
STA.	STA.	LT/RT	FOOT
561+21	561+72	RT	156
562+23	562+71	RT	149
TOTAL			305

GUARDRAIL REMOVAL (MOT)			
FROM	TO	DIRECTION	LENGTH
STA.	STA.	EB/WB	FOOT
449+50	461+17	EB	1167
449+95	461+18	WB	1123
474+57	477+44	WB	287
474+57	477+83	EB	326
SUBTOTAL			2903

CONCRETE CURB AND GUTTER REMOVAL			
FROM	TO	OFFSET	LENGTH
STA.	STA.	LT/RT	FOOT
478+14	479+30	LT	116

GUARDRAIL REMOVAL (RECONSTRUCTION)			
FROM	TO	DIRECTION	LENGTH
STA.	STA.	EB/WB	FOOT
446+72	449+50	EB	278
446+74	449+95	WB	321
462+75	463+66	EB	91
462+76	463+43	WB	67
471+77	472+38	WB	61
471+89	472+37	EB	48
471+64	472+25	EB	61
474+56	475+86	WB	130
474+55	476+31	EB	176
560+51	561+06	WB	55
562+76	563+86	WB	110
562+76	563+34	WB	58
160+26	161+15	EB	89
160+40	161+16	EB	76
162+86	163+30	EB	44
SUBTOTAL			1665
TOTAL			4568

EARTHWORK SUMMARY

	EXCAVATION	UNSUITABLE	EMBANKMENT
	CU YD	CU YD	CU YD
ROADWAY	1274	1000	652
MOT	541	155	489
TOTALS	1815	1155	1141
SHRINKAGE	0.85		
AVAILABLE	1542		

NOTE: TOWER REPLACEMENT QUANTITIES
ARE NOT INCLUDED IN SCHEDULES

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CONCRETE ITEMS						
FROM	TO	LENGTH	PAVEMENT CONNECTOR (PCC) FOR BRIDGE	CONCRETE CURB TYPE B	AGGREGATE SUBGRADE IMPROVEMENT 12"	PROTECTIVE COAT
STA.	STA.	FOOT	SQ YD	FOOT	SQ YD	SQ YD
560+71.54	560+86.54	15.00	55.6	30	57.5	60.6
563+06.04	563+21.04	15.00	55.6	30	57.5	60.6
460+73.16	460+88.16	15.00	57.1	30	59	62.1
463+05.82	463+20.82	15.00	57.1	30	59	62.1
460+72.18	460+87.18	15.00	57.1	30	59	62.1
463+04.84	463+19.84	15.00	57.1	30	59	62.1
160+69.43	160+84.43	15.00	55.6	30	57.5	60.6
163+03.93	163+18.93	15.00	55.6	30	57.5	60.6
471+92.64	472+07.64	15.00	85.7	30	87.6	90.7
474+77.46	474+92.46	15.00	95.8	30	97.7	100.8
471+90.89	472+05.89	15.00	86.3	30	88.2	91.3
474+75.64	474+90.64	15.00	92.8	30	94.7	97.8
TOTAL			811	360	834	871

HMA ITEMS		PAVING AREA	BITUMINOUS MATERIALS (TACK COAT)	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 3/4"	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 2"	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
FROM	TO					
STA.	STA.	SQ FT	POUNDS	TONS	TONS	TONS
560+58	560+73	659	33		8.2	
563+20	563+80	1998	99.9		24.9	
460+59	460+74	541	27.1		6.7	
463+20	471+93	26553	1991.5	289.1		123.9
460+58	460+73	473	23.7		5.9	
463+20	471+91	21397	1604.8	233		99.9
160+40	160+70	1001	50.1		12.5	
163+18	163+48	1001	50.1		12.5	
474+92	485+00	26846	1342.3		334.1	
474+91	485+00	33041	1652.1		411.2	
TOTAL			6875	522	816	224

PERMANENT SHOULDERS				HOT-MIX ASPHALT SHOULDERS, 6"	HOT-MIX ASPHALT SHOULDERS, 10"	AGGREGATE SHOULDERS, TYPE B 10"	AGGREGATE WEDGE SHOULDER, TYPE B	AGGREGATE SUBGRADE IMPROVEMENT 12"	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SHOULDERS, 2"	HOT-MIX ASPHALT SHOULDERS, 2-1/2"
FROM	TO	OFFSET	LENGTH								
STA.	STA.	LT/RT	FOOT	SQ YD	SQ YD	SQ YD	TONS	SQ YD	POUND	SQ YD	SQ YD
446+38.6	460+73.2	RT	1434.6		956.4	398.5	133.6	1036.1	430.4		
446+39.5	460+74.2	LT	1434.7		956.5	398.5	133.6	1036.2	430.4		
460+50.4	460+73.2	RT	22.8		5.3	6.3	2.1	6.6	2.4		
462+74.70	463+20.82	LT	46.12	13.4					3		
462+73.70	463+19.84	RT	46.14	13.4					3		
463+18.8	463+58.8	RT	40		5.5	11.1	3.7	7.7	2.5		
463+19.8	463+61.1	LT	41.3		5	11.5	3.8	7.3	2.3		
463+19.8	463+54.5	LT	34.7		3.9	9.6	3.2	5.8	1.8		
471+92.64	472+37.05	LT	44.41	13.4					3		
474+45.76	474+92.51	LT	46.75	13.5					3		
471+90.89	472+36.53	RT	45.64	13.8					3.1		
474+45.31	474+90.64	RT	45.33	14					3.2		
471+71.8	471+91.8	RT	20		3.7	5.6	1.9	4.8	1.7		
474+76.8	477+84.0	MEDIAN	307.2	535.1			0		120.4		
463+21.0	471+93.0	LT							704.1		1564.7
463+20.0	471+91.0	RT							815.4		1812.1
474+92.0	485+00.0	LT							1266.7	2815.0	
474+91.0	485+00.0	RT							1604.8	3566.3	
TOTAL				617	1936	841	282	2104.0	5401	6381	3377

PATCHING			CLASS D PATCHES, TYPE IV, 6 INCH	CLASS C PATCHES, TYPE II, 10 INCH	CLASS C PATCHES, TYPE IV, 10 INCH
APPROXIMATE STATIONING					
FROM	TO	PATCH WIDTH	SQ YD	SQ YD	SQ YD
470+12	470+17	24		13.3	
465+38	465+43	24		13.3	
466+12	466+17	24		13.3	
466+88	466+92	24		10.7	
482+63	482+68	24		13.3	
483+52	483+57	12		6.7	
483+83	484+08	24			66.7
463+13	466+60	6	231.3		
482+02	482+07	12		6.7	
481+42	481+47	24		13.3	
480+42	480+47	24		13.3	
479+32	479+37	12		6.7	
479+02	479+07	24		13.3	
464+32	464+37	24		13.3	
464+82	464+87	24		13.3	
465+82	465+87	24		13.3	
465+90	466+00	24		26.7	
TOTAL			231.0	191.0	67

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS		
PAVEMENT SCHEDULE		
SCALE: NONE	SHEET 3 OF 8 SHEETS	STA. TO STA.

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 21
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

GUARDRAIL				STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	TRAFFIC BARRIER TERMINALS				TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
FROM	TO	OFFSET			TYPE 1 (SPECIAL TANGENT)	TYPE 2	TYPE 5	TYPE 6		
STA.	STA.	LT/RT	LENGTH	FOOT	EACH	EACH	EACH	EACH	EACH	EACH
IL 120 CENTERLINE										
446+73.9	447+23.9	LT	50.0		1				1	
446+72.5	447+22.5	RT	50.0		1				1	
447+23.9	460+66.3	LT	1342.4	1350.0						17.9
447+22.5	460+65.3	RT	1342.8	1337.5						18
460+66.3	461+05.7	LT	39.4				1			0.6
460+65.3	461+04.7	RT	39.4					1		0.6
460+15.3	460+65.3	RT	50.0		1				1	
460+65.3	461+04.7	RT	39.4					1		0.6
462+88.3	463+27.7	LT	39.4					1		0.6
463+27.7	463+52.7	LT	25.0	25.0						0.4
462+88.3	463+27.7	LT	39.4					1		0.6
463+27.7	463+77.7	LT	50.0		1				1	
462+89.8	463+03.1	RT	13.3				1			0.2
463+03.1	463+65.6	RT	62.5	62.5						0.9
471+77.1	471+89.6	LT	12.5	12.5						0.2
471+89.6	472+29.0	LT	39.4				1			0.6
471+89.2	472+28.6	RT	39.4					1		0.6
471+64.2	471+89.2	RT	25.0	25.0						0.4
471+87.8	472+27.2	RT	39.4					1		0.6
474+56.2	474+95.6	LT	39.4					1		0.6
474+95.6	475+33.1	LT	37.5	37.5						0.5
475+33.1	475+83.1	LT	50.0		1				1	
474+54.8	474+94.2	LT	39.4					1		0.6
474+94.2	477+44.2	LT	250.0	250.0						3.4
474+56.8	474+70.1	RT	13.3				1			0.2
474+70.1	477+82.6	RT	312.5	312.5						4.2
474+55.5	474+68.8	RT	13.3				1			0.2
474+68.8	476+05.7	RT	136.9	137.5						1.9
476+05.7	476+18.2	RT	12.5				1			0.2
RAMP KW										
560+50.8	560+88.3	LT	37.5	37.5						0.5
560+88.3	561+01.6	LT	13.3				1			0.2
562+88.5	563+27.9	LT	39.4					1		0.6
562+88.5	563+27.9	RT	39.4					1		0.6
563+27.9	563+77.9	RT	50.0		1				1	
RAMP WK										
160+12.5	160+62.5	LT	50.0		1				1	
160+62.5	161+01.9	LT	39.4					1		0.6
160+37.5	160+62.5	RT	25.0	25.0						0.4
160+62.5	161+01.9	RT	39.4					1		0.6
162+88.9	163+02.2	RT	13.3				1			0.2
163+02.2	163+27.2	RT	25.0	25.0						0.4
GUARDRAIL TOTALS				3638	7	1	7	12	7	59

TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A			
	FROM	TO	
	STA.	STA.	FOOT
STAGE 1	477+43	477+52	25
	477+43	477+52	25
STAGE 2	455+53	460+14	461
	475+00	475+09	25

PINNING CONCRETE BARRIER			
STAGE 1			PINNING TEMPORARY CONCRETE BARRIER
		12.5' SECTIONS	
STA.	STA.	EACH	EACH
458+42	485+00	212	1272
STAGE 2			
STA.	STA.		
455+85	460+59	37	222
475+90	485+00	72	432
TOTAL		TOTAL	1926

TEMPORARY CONCRETE BARRIER								
WINTER STAGE (CLOSE OFF TEMPORARY PAVEMENTS)					BARRIER WALL REFLECTORS, TYPE C	MODULAR GLARE SCREEN SYSTEM, TEMPORARY	RELOCATE MODULAR GLARE SCREEN SYSTEM	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 11
FROM	TO	OFFSET	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER				
STA.	STA.		FOOT	FOOT	EACH	FOOT	FOOT	EACH
449+71	461+21	RT	1150		92			2
449+96	461+21	LT	1125		90			2
474+83	477+83	RT	300		24			2
474+75	477+50	LT	275		22			2
TOTAL			2850					
STAGE 1								
STA.	STA.							
452+25	485+00	RT	425	2850	34	3275		1
474+45	475+45	RT	100		8	100		
WINTER STAGE (CLOSE OFF TEMPORARY PAVEMENTS)								
449+71	461+21	RT		1150	92			2
449+96	461+21	LT		1125	90			2
474+83	477+83	RT		300	24			2
474+75	477+50	LT		275	22			2
STAGE 2								
STA.	STA.							
451+78	485+00	LT		3397	0		3397	3
TOTAL			3375	9097	498	3375	3397	20

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GRAEF
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Chicago, Illinois 60631
(773) 399-0112

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
GUARDRAIL AND BARRIER SCHEDULE**

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

F.A.P. RTE. 333/342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 22
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

MOT PAVEMENT MARKING										
STAGE 1		LENGTH	NO. OF 4" PM LINES	NO. OF 6" PM LINES	NO. OF 8" PM LINES	TEMPORARY PAVEMENT MARKING - LINE 4"	TEMPORARY PAVEMENT MARKING - LINE 6"	TEMPORARY PAVEMENT MARKING - LINE 8"	TEMPORARY PAVEMENT MARKING - LINE 12"	EPOXY PAVEMENT MARKING - LINE 12" (WINTER STAGE)
STA.	STA.	FOOT	EACH		EACH					
449+74	460+43	1069	1							1069
449+96	460+64	1068	1							1068
474+89	477+83	294	1							294
474+91	477+44	253	1							253
448+80	449+96	116	1			116				
449+96	455+30	534	3			1602				
455+30	470+00	1470	4			5880				
470+00	470+64	64	4			256				
470+64	475+54	490	4.5			2205				
475+54	476+55	101	3.25			328.25				
475+90	476+50	60	3.25		3	195		180	36.2	
476+50	478+45	195	3		3	585		585	82.15	
478+45	479+61	116	6			696				
479+61	480+00	39	6			234				
480+00	482+20	220	4		3	880		660	38.11	
482+20	485+00	280	4			1120				
Greenleaf						308				
SUBTOTAL						14405.25		1425	156.46	2684
STAGE 2										
449+74	460+43	1069	1							1069
449+96	460+64	1068	1							1068
474+89	477+83	294	1							294
474+91	477+44	253	1							253
415+80	423+04	724	1			724				
423+40	426+50	310	3			930				
426+50	429+00	250			3			750	42.99	
429+00	435+04	604	1			604				
435+04	437+60	256	1.25			320				
437+60	438+90	130	1	1		130	130			
439+57	440+32	110	1			110				
440+32	444+00	368	1			368				
444+00	449+50	550	1			550				
449+50	456+34	684	2			1368				
456+34	458+50	216	3			648				
458+50	468+80	1030	4			4120				
468+80	470+00	120	3.25		1	390		120		
470+00	470+83	83	3.25		1	269.75	0	83		
470+83	474+92	409	2.5		2	1022.5	0	818		
474+92	475+80	88	2		6	176	0	528	28.28	
475+80	477+06	126	5		3	630	0	378		
477+06	481+96	490	7			3430	0	0	82.15	
481+96	485+00	304	4			1216	0	0		
SUBTOTAL						17006.25	130	2677	153.42	2684
TOTAL						31412	130	4102	310	5368

TEMPORARY PAVEMENT				SUBBASE GRANULAR MATERIAL, TYPE B 4"	AGGREGATE SHOULDERS, TYPE B 10"
FROM	TO	AREA FROM MICROSTATION	AREA		
STA.	STA.	SQ FT	SQ YD	SQ YD	SQ YD
449+74.0	460+73.0	25999	2889	2889	446
474+76.8	477+84.0	4878	542	542	0
478+15.5	480+18.0	2373	264	264	55
TOTAL			3695	3695	500

TEMPORARY INFORMATION SIGNING					
LOCATION	SIGN LEGEND				
	ROAD WORK AHEAD EXPECT DELAYS	WB RAMP TO IL 120 CLOSED FOLLOW DETOUR	US 41 CHICAGO MILWAUKEE ARROW UP RIGHT	THIS RAMP WILL BE CLOSED XXXX XXXX	RAMP CLOSED
QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
IL 120 EB	1		1	1	1
GREENLEAF NB	1	1		1	1
GREENLEAF SB	1	1		1	1
O'PLAINE NB	1				
O'PLAINE SB	1				
IL 43 RAMP SB	1				
WASHINGTON EB		1			
WASHINGTON WB		1			
SUBTOTAL	6	4	1	3	3
SIGN AREA (SF)	25.7	22	35	20	20
TOTAL	154.2	88	35	60	60
TOTAL AREA (SF)			397		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
MAINTENANCE OF TRAFFIC SCHEDULES

SCALE: NONE SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 23
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

STRUCTURE NUMBER	LOCATION				PIPE NUMBER	SLOPE	20800150	28100107	60201340	60208240	60218300	550A0050	54244405	5421A012	60100945	54213657	54215547	61000050	28000510	28000305	
	STATION	BASELINE	OFFSET				TRENCH BACKFILL	STONE RIPRAP, CLASS A4	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	STORM SEWERS, CLASS A, TYPE 1 12"	FLUSH INLET BOX FOR MEDIAN, STD 542546	PIPE CULVERTS CLASS A TYPE 1 (TEMPORARY)	PIPE DRAINS 12"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	METAL END SECTIONS 12"	CONCRETE THRUST BLOCKS	INLET FILTERS	TEMPORARY DITCH CHECKS	
	CU YD	SQ YD	EACH				EACH	EACH	EACH	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
A-1	560+79.53	RAMP K-W	26.67	RT	A-1	1.0%	3.8												1		
A-2	560+79.53	RAMP K-W	4.67	LT	A-2		0.6		1						63				1		
A-3	560+79.53	RAMP K-W	70.50	LT				12.2									1	1		20	
B-1	460+81.16	IL 120	46.13	LT	B-1	1.0%	4.0			1									1		
B-2	460+81.16	IL 120	13.88	LT	B-2	1.0%	0.0		1										1		
B-3	460+81.16	IL 120	1.90	LT											1					10	
C-1	460+80.18	IL 120	47.13	RT	C-1	1.0%	4.0			1									1		
C-2	460+80.18	IL 120	14.88	RT	C-2	1.0%	0.6		1										1		
C-3	460+80.18	IL 120	2.85	RT											1					10	
D-1	160+77.46	RAMP W-K	26.67	RT	D-1	1.0%	3.8			1									1		
D-2	160+77.46	RAMP W-K	4.67	LT	D-2		0.6		1					65					1		
D-3	160+77.46	RAMP W-K	73.00	LT			0.6	16.7									1	1		20	
E-1	563+14.04	RAMP K-W	26.67	RT	E-1	1.0%	3.8			1			29						1		
E-2	563+14.04	RAMP K-W	4.67	LT	E-2		0.6		1					39					1		
E-3	563+14.04	RAMP K-W	47.00	LT				12.2									1	1		20	
F-1	463+12.82	IL 120	46.13	LT	F-1	1.0%	4.0			1									1		
F-2	463+12.82	IL 120	13.88	LT	F-2	1.0%	0.6		1										1		
G-1	463+11.84	IL 120	47.13	RT	G-1	0.5%	3.9			1									1		
G-2	463+11.84	IL 120	14.88	RT	G-2	0.5%	0.6		1										1		
H-1	163+11.93	RAMP W-K	28.41	RT	H-1	1.0%	4.1			1									1		
H-2	163+11.93	RAMP W-K	5.41	LT	H-2		0.6		1					64					1		
H-3	163+11.93	RAMP W-K	73.00	RT				16.7									1	1		20	
J-1	463+12.00	IL 120	0.00	RT	J-1	0.50%	73.7				1		345						1		
J-2	466+60.00	IL 120	0.00	RT															1		
K-1	472+00.17	IL 120	12.17	LT	K-1	2.0%	6.4			1									1		
K-2	472+00.17	IL 120	63.89	LT	K-2		0.6		1						72				1		
K-3	472+00.17	IL 120	137.60	LT				17									1	1		10	
L-1	471+99.31	IL 120	9.17	RT	L-1	2.0%	7.0			1									1		
L-2	471+99.31	IL 120	64.83	RT	L-2		0.6		1						53				1		
L-3	471+99.71	IL 120	122.10	RT				17									1	1		20	
N-1	474+84.35	IL 120	12.17	LT	N-1	1.0%	7.5			1									1		
N-2	474+84.38	IL 120	69.52	LT	N-2		0.6		1						53				1		
N-3	474+84.42	IL 120	127.00	LT				17									1	1		10	
P-1	474+82.72	IL 120	9.17	RT	P-1	1.0%	7.3			1									1		
P-2	474+82.68	IL 120	63.83	RT	P-2		0.6		1						57				1		
P-3	474+84.64	IL 120	124.50	RT				20									1	1		20	
R-1	453+37.00	IL 120	0.00	RT													1			20	
R-2	457+60.00	IL 120	0.00	RT	R-2	2.25%	54.3						1	411						20	
							195	129	12	12	1		825	1	411	466	3	8	8	26	200
																		EXISTING	6		
																		TOTAL	32		

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SCALE: NONE SHEET 6 OF 8 SHEETS STA. TO STA.						

EXISTING STRUCTURE NUMBER	STATION	BASE LINE	DIRECTION	SIGN PANEL LEGEND DESCRIPTION	EXISTING PANEL DIMENSIONS		PROPOSED PANEL DIMENSIONS		72000300	72400330	STRUCTURAL STEEL SIGN SUPPORTS				
					WIDTH	HEIGHT	WIDTH	HEIGHT	SIGN PANEL TYPE 3	REMOVE SIGN PANEL TYPE 3	POST 1		POST 2		
											LENGTH INCLUDING STUB POST	SIZE	LENGTH INCLUDING STUB POST	SIZE	
									SQ FT	SQ FT					
1S049S120R000.0-000	426+85	C/L 120	EB	US 41 CHICAGO-MILWAUKEE 1 MI	13.0	10.5	11.5	11.0	126.5						
				TO IL 43 S FOUNTAIN SQ GREENLEAF 1/2 MI	17.5	11.0	15.5	11.0	170.5						
	427+02	C/L 120	EB							329.0					
1S049S120R000.0-001	450+86	C/L 120	EB	US 41 CHICAGO-MILWAUKEE 1/2 MI	13.5	11.0	11.5	11.0	126.5						
				TO IL 43 S FOUNTAIN SQ GREENLEAF EXIT ONLY	20.0	9.0	16.0	12.0	192.0						
	451+03	C/L 120	EB							328.5					
1C049S120R000.0-002	476+08	C/L 120	EB	US 41 CHICAGO-MILWAUKEE EXIT ONLY	17.5	9.0	14.5	12.5	181.3						
	475+92	C/L 120	EB							157.5					
1C049S120L000.0-001	181+91.5	RAMP EK-L	WB	IL 120 WEST GRAYSLAKE	12.5	9.0	11.0	9.0	99.0						
				TO IL 43 S FOUNTAIN SQ GREENLEAF EXIT ONLY	17.5	11.5	16.0	12.0	192.0						
	181+99	RAMP EK-L	WB							313.8					
1C049S120L000.0-002	174+34	RAMP EK-L	WB		19.5	11.0				214.5					
	176+50	RAMP EK-L	WB	TO IL 43 S FOUNTAIN SQ PL <-- GREENLEAF ST-->			18.5	11.0	203.5		21.50	W14X38	24.22	W14X38	
1C049S120R000.0-000	172+60	RAMPWK	EB		19.5	11.0				214.5					
	171+00	RAMPWK	EB	TO IL 43 S FOUNTAIN SQ PL --> <-- GREENLEAF ST			18.5	11.0	203.5		21.50	W14X38	24.78	W14X38	
TOTAL									1495	1558					

EXISTING STRUCTURE NUMBER	72700100	73300300	73302210	73400100	73400200	73600100	73600200	73700300	84200600
	STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	OVERHEAD SIGN STRUCTURE -CANTILEVER, TYPE III-C-A (36" X 7'-0")	CONCRETE FOUNDATIONS	DRILLED SHAFT CONCRETE FOUNDATIONS	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	REMOVE CONCRETE FOUNDATION-OVERHEAD	REMOVAL OF LIGHTING UNIT, NO SALVAGE
	POUND	FOOT	FOOT	CU YD	CU YD	EACH	EACH	EACH	EACH
1S049S120R000.0-000		79			10.74				
						1		4	5
1S049S120R000.0-001		79			10.74				
						1		4	5
1C049S120R000.0-002			33		9.1				
							1	1	3
1C049S120L000.0-001			35		10.51				
							1	1	4
1C049S120L000.0-002							1	1	3
	1737.36			4.18					
1C049S120R000.0-000							1		3
	1758.64			4.18					
TOTAL	3496	158	68	8.36	41.09	2	4	11	23

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PERMANENT PAVEMENT MARKING										
LOCATION			THERMOPLASTIC PAVEMENT MARKING				POLYUREA PAVEMENT MARKING, TYPE 1			RAISED REFLECTIVE PAVEMENT MARKERS
			LINE 4"	LINE 6"	LINE 8"	LINE 12"	LINE 4"	LINE 8"	LINE 12"	
FROM	TO	OFFSET	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH
415+75	423+40	RT	191.25		0	0				19.13
423+40	425+16	RT	44		528	20.4				4.4
425+16	429+53	RT	109.25		437					10.93
429+53	438+70	RT	1146.25							22.93
433+08	435+72	RT		66						
439+76	440+43	RT	16.75							1.68
440+43	445+00	RT	571.25							11.43
445+00	446+34	RT	167.5							3.35
446+34	448+74	RT	300							6
446+40	450+27	LT	387							9.68
448+74	450+28	RT	192.5							3.85
450+28	453+52	RT	405		648	129.5				24.3
450+27	451+07	LT	100							2
451+07	455+98	LT	613.75		982	188.8				12.28
453+52	460+73	RT	1622.25							18.03
455+98	460+73	LT	1068.75							11.88
460+73	463+20	RT					555.75			
460+73	463+20	LT					555.75			
560+23	560+71	B/L KW	108							1.2
560+71	563+21	B/L KW					562.5			
563+21	563+80	B/L KW	132.75							
160+39	160+69	B/L WK	67.5							0.75
160+69	163+19	B/L WK					562.5			
163+19	163+39	B/L WK	45							0.5
463+20	470+66	RT	1678.5							18.65
463+20	464+89	LT	380.25							4.23
464+89	471+93	LT	880		704					17.6
470+66	471+91	RT	312.5							3.13
471+91	474+75	RT					710			
471+93	473+05	LT					140	112		
473+05	473+93	LT					264	25.5		
474+75	474+91	RT					40	16		
474+91	475+00	RT	13.5							0.23
474+93	477+06	LT	266.25		639	155.9				5.33
477+06	482+21	LT	1673.75							12.88
480+05	485+00	LT			124					13.75
482+21	485+00	LT	627.75							6.98
475+00	481+82	RT	852.5		1364	517.6				51.15
475+00	478+76	RT			376					
481+82	485+00	RT	715.5							7.95
TOTAL			14690	66	5802	1013	3127	392	26	307

LANDSCAPING										
LOCATION			AREA	TOPSOIL FURNISH & PLACE 4"	SEEDING CLASS 2A	FERTILIZER NUTRIENTS		EROSION CONTROL BLANKET (SPECIAL)	TEMPORARY EROSION CONTROL SEEDING	MULCH, METHOD 2
						NITROGEN	POTASSIUM			
FROM	TO	OFFSET	SF	SQ YD	ACRE	POUND	POUND	SQ YD	POUND	ACRE
446+56	461+17	MEDIAN	30915	3435	0.71	63.9	63.9	3435	213	0.71
460+74	461+17	LT	1581	175.7	0.04	3.6	3.6	175.7	12	0.04
460+73	461+23	RT	1601	177.9	0.04	3.6	3.6	177.9	12	0.04
560+72	561+16	LT	2055	228.4	0.05	4.5	4.5	228.4	15	0.05
160+68	161+15	RT	2213	245.9	0.06	5.4	5.4	245.9	18	0.06
462+74	463+20	LT	1527	169.7	0.04	3.6	3.6	169.7	12	0.04
462+66	463+19	RT	1633	181.5	0.04	3.6	3.6	181.5	12	0.04
562+77	563+23	LT	1529	169.9	0.04	3.6	3.6	169.9	12	0.04
162+75	163+21	RT	2239	248.8	0.06	5.4	5.4	248.8	18	0.06
471+93	472+39	LT	2336	259.6	0.06	5.4	5.4	259.6	18	0.06
471+91	472+36	RT	1796	199.6	0.05	4.5	4.5	199.6	15	0.05
474+41	474+91	LT	2279	253.3	0.06	5.4	5.4	253.3	18	0.06
474+43	474+92	RT	2434	270.5	0.06	5.4	5.4	270.5	18	0.06
477+77	479+32	LT	1342	149.2	0.04	3.6	3.6	149.2	12	0.04
TOTALS				6165	1.35	122	122	6165	405	1.35

SELECTIVE CLEARING					
LOCATION		OFFSET	BASELINE	AREA	UNITS
FROM	TO			SF	(1000 SF)
426+88	427+13	RT	C/L 120	461	0.46
160+68	161+14	RT	RAMP WK	2213	2.21
162+75	163+21	RT	RAMP WK	2239	2.24
560+75	561+15	LT	RAMP KW	2055	2.06
562+77	563+25	LT	RAMP KW	1703	1.7
TOTAL					9

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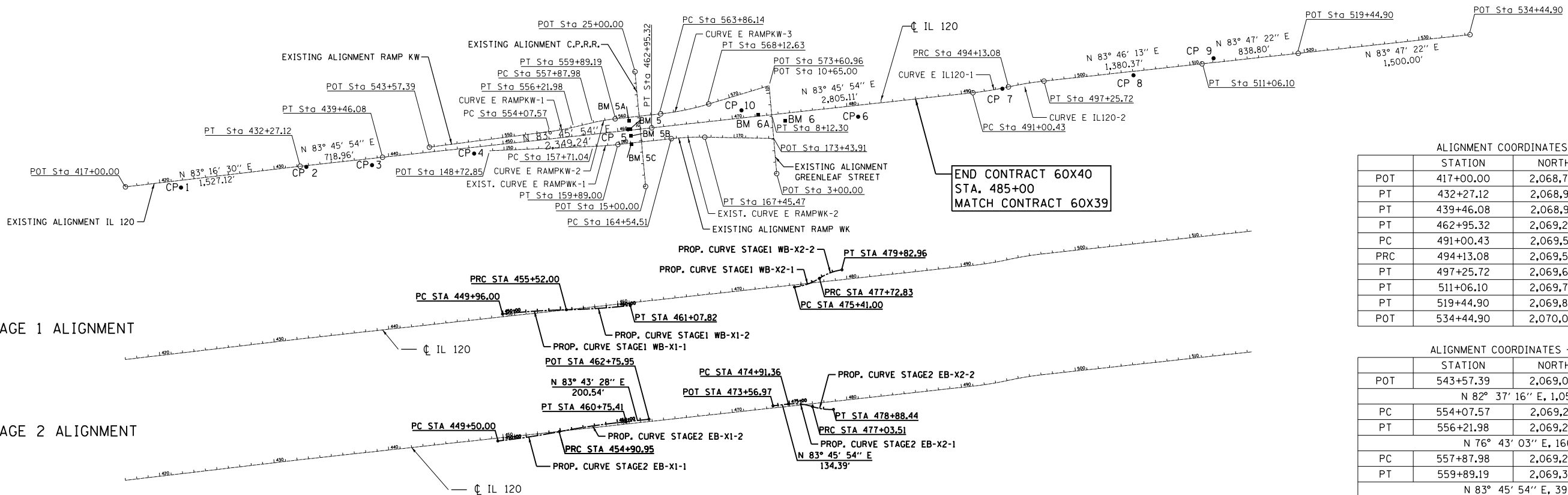
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
PERMANENT PAVEMENT MARKING AND LANDSCAPE SCHEDULE**

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

F.A.P. RTE. 333 342	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	LAKE		288	26
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



ALIGNMENT COORDINATES - EX. IL 120

	STATION	NORTHING	EASTING
POT	417+00.00	2,068,730.29	1,095,240.96
PT	432+27.12	2,068,909.13	1,096,757.57
PT	439+46.08	2,068,987.21	1,097,472.28
PT	462+95.32	2,069,242.36	1,099,807.62
PC	491+00.43	2,069,547.01	1,102,596.14
PRC	494+13.08	2,069,597.39	1,102,904.55
PT	497+25.72	2,069,647.77	1,103,212.96
PT	511+06.10	2,069,797.56	1,104,585.19
PT	519+44.90	2,069,888.30	1,105,419.06
POT	534+44.90	2,070,050.58	1,106,910.26

ALIGNMENT COORDINATES - EX. RAMP KW

	STATION	NORTHING	EASTING
POT	543+57.39	2,069,074.94	1,097,879.30
N 82° 37' 16" E, 1,050.18 FT			
PC	554+07.57	2,069,209.81	1,098,920.79
PT	556+21.98	2,069,248.25	1,099,131.63
N 76° 43' 03" E, 166.00 FT			
PC	557+87.98	2,069,286.39	1,099,293.19
PT	559+89.19	2,069,320.47	1,099,491.36
N 83° 45' 54" E, 396.95 FT			
PC	563+86.14	2,069,363.58	1,099,885.96
PT	568+12.63	2,069,448.97	1,100,303.18
N 73° 06' 10" E, 548.34 FT			
POT	573+60.96	2,069,608.34	1,100,827.84

ALIGNMENT COORDINATES - EX. RAMP WK

	STATION	NORTHING	EASTING
POT	148+72.85	2,069,043.39	1,098,400.82
N 87° 34' 45" E, 898.19 FT			
PC	157+71.04	2,069,081.33	1,099,298.21
PT	159+89.00	2,069,097.77	1,099,515.51
N 83° 45' 54" E, 465.51 FT			
PC	164+54.51	2,069,148.33	1,099,978.26
PT	167+45.47	2,069,161.51	1,100,268.74
S 88° 57' 32" E, 598.43 FT			
POT	173+43.91	2,069,150.63	1,100,867.07

ALIGNMENT COORDINATES - GREENLEAF

	STATION	NORTHING	EASTING
POT	3+00.00	2,068,845.75	1,100,893.20
N 4° 53' 54" W, 512.30 FT			
PT	8+12.30	2,069,356.18	1,100,849.45
N 4° 53' 54" W, 252.70 FT			
POT	10+65.00	2,069,607.96	1,100,827.88

ALIGNMENT COORDINATES - EX. C.P.R.R.

	STATION	NORTHING	EASTING
POB	15+00.00	2,068,733.77	1,099,755.70
N 5° 18' 51" W, 1,000.00 FT			
POT	25+00.00	2,069,729.47	1,099,663.09

STAGE 1 ALIGNMENT

STAGE 2 ALIGNMENT

BENCHMARK 5
ELEV. 737.11'

FOUND BOX CUT AT SOUTHWEST CORNER OF SOUTHWEST WING WALL OF WB IL ROUTE 120 BRIDGE OVER C.P.R.R. STA. 461+08.66, 10.29' LT

EXIST. CURVE E_IL120-1
PI STA. = 492+56.90
Δ = 6° 05' 13" (LT)
D = 1° 56' 49"
R = 2,942.87'
T = 156.47'
L = 312.65'
E = 4.16'
P.C. STA. = 491+00.43
P.T. STA. = 494+13.08

BENCHMARK 5A
ELEV. 740.48'

BOX CUT AT SOUTHWEST CORNER OF SOUTHWEST WING WALL OF BRIDGE ON RAMP FROM GREENLEAF AVE. TO WB IL ROUTE 120 OVER C.P.R.R. STA. 461+05.86, 83.19' LT

EXIST. CURVE E_IL120-2
PI STA. = 495+69.55
Δ = 6° 05' 32" (RT)
D = 1° 56' 55"
R = 2,940.32'
T = 156.47'
L = 312.65'
E = 4.16'
P.C. STA. = 494+13.08
P.T. STA. = 497+25.72

BENCHMARK 5B
ELEV. 737.09'

BOX CUT AT SOUTHWEST CORNER OF SOUTHWEST WING WALL OF EB IL ROUTE 120 BRIDGE OVER C.P.R.R. STA. 461+07.60, 50.91' RT

EXIST. CURVE E_RAMPKW-1
PI STA. = 555+14.87
Δ = 5° 54' 13" (LT)
D = 2° 45' 12"
R = 2,080.93'
T = 107.30'
L = 214.41'
E = 2.76'
P.C. STA. = 554+07.57
P.T. STA. = 556+21.98

BENCHMARK 5C
ELEV. 740.28'

BOX CUT AT SOUTHWEST CORNER OF SOUTHWEST WING WALL OF BRIDGE ON EB IL ROUTE 120 RAMP TO GREENLEAF AVE. OVER C.P.R.R. STA. 461+04.08, 118.78' RT

EXIST. CURVE E_RAMPKW-2
PI STA. = 558+88.71
Δ = 7° 02' 51" (RT)
D = 3° 30' 09"
R = 1,635.79'
T = 100.73'
L = 201.21'
E = 3.10'
P.C. STA. = 557+87.98
P.T. STA. = 559+89.19

BENCHMARK 6
ELEV. 731.86

FOUND SQUARE AT EAST END OF SOUTHEAST WINGWALL OF EB IL ROUTE 120 BRIDGE OVER GREENLEAF AVE STA. 474+54.97, 65.88' RT

EXIST. CURVE E_RAMPKW-3
PI STA. = 566+00.00
Δ = 10° 39' 44" (LT)
D = 2° 30' 00"
R = 2,291.80'
T = 213.86'
L = 426.49'
E = 9.96'
P.C. STA. = 563+86.14
P.T. STA. = 568+12.63

BENCHMARK 6A
ELEV. 733.93

BOX CUT AT SOUTHWEST CORNER OF SOUTHWEST WING WALL OF WB IL ROUTE 120 BRIDGE OVER GREENLEAF AVE STA. 472+26.57, 11.30' LT

EXIST. CURVE E_RAMPKW-1
PI STA. = 158+80.06
Δ = 3° 48' 51" (LT)
D = 1° 45' 00"
R = 3,274.15'
T = 109.02'
L = 217.96'
E = 1.81'
P.C. STA. = 157+71.04
P.T. STA. = 159+89.00

PROP. CURVE STAGE1.WB-X1-1
PI STA. = 452+74.17
Δ = 4° 54' 03" (RT)
D = 0° 52' 53"
R = 6,500.00'
T = 278.17'
L = 556.00'
E = 5.95'
P.C. STA = 449+96.00
P.T. STA = 455+52.00

PROP. CURVE STAGE1.WB-X1-2
PI STA. = 458+30.08
Δ = 4° 53' 58" (LT)
D = 0° 52' 53"
R = 6,500.00'
T = 278.08'
L = 555.82'
E = 5.95'
P.C. STA = 455+52.00
P.T. STA = 461+07.82

PROP. CURVE STAGE1.WB-X2-1
PI STA. = 476+59.04
Δ = 26° 33' 55" (LT)
D = 11° 27' 33"
R = 500.00'
T = 118.04'
L = 231.83'
E = 13.74'
P.C. STA = 475+41.00
P.T. STA = 477+72.83

PROP. CURVE STAGE1.WB-X2-2
PI STA. = 478+79.47
Δ = 24° 04' 46" (RT)
D = 11° 27' 33"
R = 500.00'
T = 106.64'
L = 210.13'
E = 11.25'
P.C. STA = 477+72.83
P.T. STA = 479+82.96

PROP. CURVE STAGE2.EB-X1-1
PI STA. = 452+20.63
Δ = 4° 46' 06" (LT)
D = 0° 52' 53"
R = 6,500.00'
T = 270.63'
L = 540.95'
E = 5.63'
P.C. STA = 449+50.00
P.T. STA = 454+90.95

PROP. CURVE STAGE2.EB-X1-2
PI STA. = 457+83.38
Δ = 5° 09' 07" (RT)
D = 0° 52' 53"
R = 6,500.00'
T = 292.43'
L = 584.46'
E = 6.57'
P.C. STA = 454+90.95
P.T. STA = 460+75.41

PROP. CURVE STAGE2.EB-X2-1
PI STA. = 475+99.05
Δ = 24° 18' 37" (RT)
D = 11° 27' 33"
R = 500.00'
T = 107.69'
L = 212.15'
E = 11.47'
P.C. STA = 474+91.36
P.T. STA = 477+03.51

PROP. CURVE STAGE2.EB-X2-2
PI STA. = 477+97.04
Δ = 21° 11' 32" (LT)
D = 11° 27' 33"
R = 500.00'
T = 93.54'
L = 184.94'
E = 8.67'
P.C. STA = 477+03.51
P.T. STA = 478+88.44

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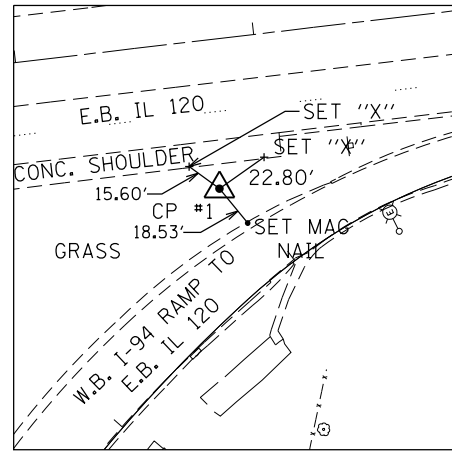
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
ALIGNMENT, BENCHMARKS, CONTROL POINTS AND TIES

SCALE: 1"=500' SHEET 1 OF 2 SHEETS STA. TO STA.

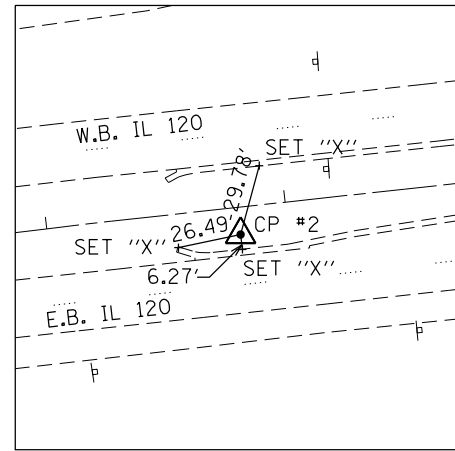
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333 342	*	LAKE	288	27
12(IN-1&2)&12R-1(B-2)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



CONTROL POINT 1

FOUND REBAR W/ CAP IN GORE AT IL 120 AND WB I-94 RAMP TO IL 120

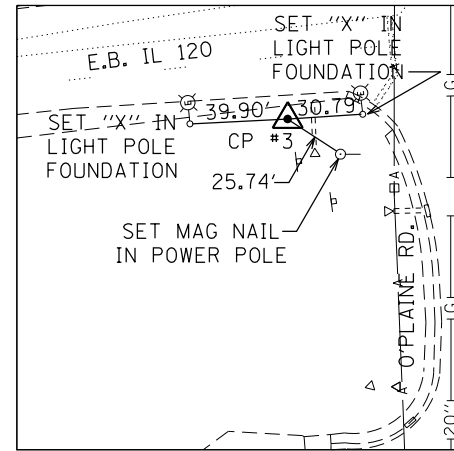
STATION 421+78.27, 62.17' RT
N 2,068,724.558
E 1,095,723.218



CONTROL POINT 2

FOUND REBAR W/CAP IN CENTER MEDIAN OF IL 120 BEFORE O'PLAINE RD

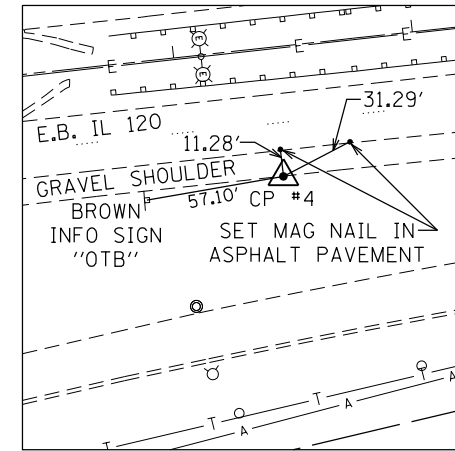
STATION 426+60.16, 9.65' LT
N 2,068,903.552
E 1,096,811.424



CONTROL POINT 3

FOUND REBAR W/CAP AT SW CORNER OF IL 120 AND O'PLAINE RD

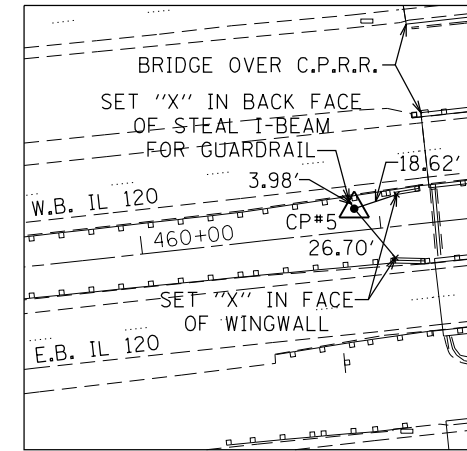
STATION 438+48.28, 58.06' RT
N 2,068,918.878
E 1,097,381.363



CONTROL POINT 4

FOUND REBAR W/CAP ON SOUTH SIDE OF IL 120

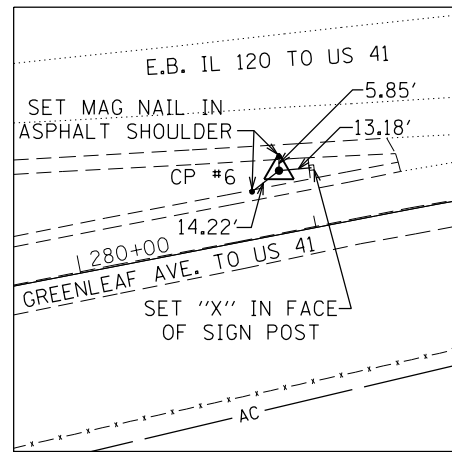
STATION 447+40.09, 54.06' RT
N 2,069,019.702
E 1,098,267.465



CONTROL POINT 5

FOUND REBAR W/CAP IN CENTER MEDIAN OF IL 120

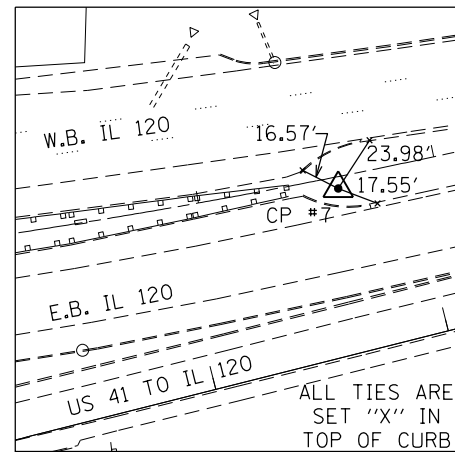
STATION 460+89.84, 9.19' LT
N 2,069,229.177
E 1,099,602.356



CONTROL POINT 6

FOUND REBAR W/CAP IN GORE OF RAMP FROM IL 120 AND GREENLEAF AVE TO US 41

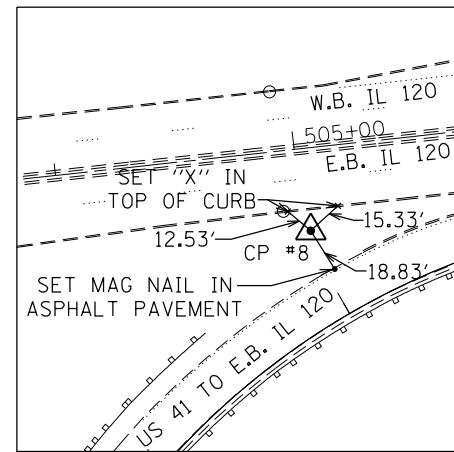
STATION 480+87.59, 98.74' RT
N 2,069,338.848
E 1,101,600.014



CONTROL POINT 7

FOUND REBAR W/CAP IN CENTER MEDIAN OF IL 120

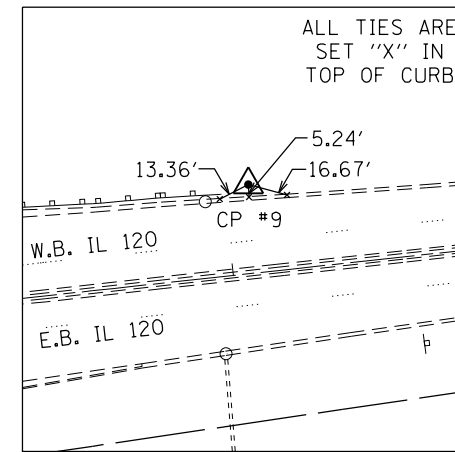
STATION 493+58.35, 4.85' RT
N 2,069,581.451
E 1,102,851.931



CONTROL POINT 8

FOUND REBAR W/CAP IN GORE OF IL 120 AND US 41 RAMP TO IL 120

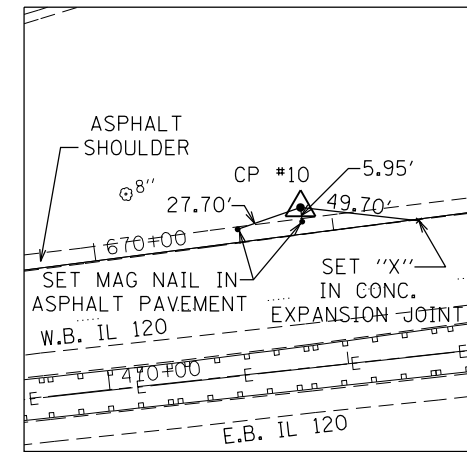
STATION 505+03.26, 34.45' RT
N 2,069,697.891
E 1,103,989.649



CONTROL POINT 9

FOUND REBAR W/ CAP ON NORTH SIDE OF IL 120 EAST OF OLD SKOKIE HWY

STATION 512+10.33, 36.98' LT
N 2,069,845.598
E 1,104,684.805



CONTROL POINT 10

FOUND REBAR W/CAP ON NORTH SIDE OF IL 120 AND WEST OF GREENLEAF AVE

STATION 470+87.16, 66.84' LT
N 2,069,394.799
E 1,100,587.520

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
ALIGNMENT, BENCHMARKS, CONTROL POINTS AND TIES**

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

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 28
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

STRUCTURE NUMBER	LOCATION			STRUCTURE DESCRIPTION	B/L ELEV	RIM EL	INVERT ELEVATION				PIPE NUMBER	LENGTH	PIPE DESCRIPTION	SLOPE	
	STATION	BASELINE	OFFSET				NORTH	SOUTH	EAST	WEST					
A-1	560+79.53	RAMP K-W	26.67	RT	CATCH BASIN, TYPE C, TYPE 24 FR & GR	738.14	738.05	734.95				A-1	29FT	12" SS CL A, TYPE 1	1.0%
A-2	560+79.53	RAMP K-W	4.67	LT	CATCH BASIN, TYPE A, 4' DIA,TYPE 24 FR & GR	738.14	738.05	734.53	734.63			A-2	63FT	PIPE DRAIN, 12"	
A-3	560+79.53	RAMP K-W	70.50	LT	METAL END SECTION, 12"				705.45						
B-1	460+81.16	IL 120	46.13	LT	CATCH BASIN, TYPE C, TYPE 24 FR & GR	736.52	736.28		733.32			B-1	30FT	12" SS CL A, TYPE 1	1.0%
B-2	460+81.16	IL 120	13.88	LT	CATCH BASIN, TYPE A, 4' DIA,TYPE 24 FR & GR	736.52	736.28	733.02	732.92			B-2	4FT	12" SS CL A, TYPE 1	1.0%
B-3	460+81.16	IL 120	1.90	LT	PRC FLARED END SECTION, 12"				732.86						
C-1	460+80.18	IL 120	47.13	RT	CATCH BASIN, TYPE C, TYPE 24 FR & GR	736.51	736.23	733.15				C-1	30FT	12" SS CL A, TYPE 1	1.0%
C-2	460+80.18	IL 120	14.88	RT	CATCH BASIN, TYPE A, 4' DIA,TYPE 24 FR & GR	736.51	736.23	732.92	733.02			C-2	5FT	12" SS CL A, TYPE 1	1.0%
C-3	460+80.18	IL 120	2.85	RT	PRC FLARED END SECTION, 12"				732.86						
D-1	160+77.46	RAMP W-K	26.67	RT	CATCH BASIN, TYPE C, TYPE 24 FR & GR	737.99	737.92		734.89			D-1	29FT	12" SS CL A, TYPE 1	1.0%
D-2	160+77.46	RAMP W-K	4.67	LT	CATCH BASIN, TYPE A, 4' DIA,TYPE 24 FR & GR	737.99	737.92					D-2	65FT	12" SS CL A, TYPE 1	
D-3	160+77.46	RAMP W-K	73.00	LT	METAL END SECTION, 12"				706.13						
E-1	563+14.04	RAMP K-W	26.67	RT	CATCH BASIN, TYPE C, TYPE 24 FR & GR	738.10	737.42	734.32				E-1	29FT	12" SS CL A, TYPE 1	1.0%
E-2	563+14.04	RAMP K-W	4.67	LT	CATCH BASIN, TYPE A, 4' DIA,TYPE 24 FR & GR	738.10	737.42	733.88	733.98			E-2	39FT	PIPE DRAIN, 12"	
E-3	563+14.04	RAMP K-W	47.00	LT	METAL END SECTION, 12"				705.45						
F-1	463+12.82	IL 120	46.13	LT	CATCH BASIN, TYPE C, TYPE 24 FR & GR	736.55	736.23		733.32			F-1	30FT	12" SS CL A, TYPE 1	1.0%
F-2	463+12.82	IL 120	13.88	LT	CATCH BASIN, TYPE A, 4' DIA,TYPE 24 FR & GR	736.55	736.23	733.04	732.96			F-2	10FT	12" SS CL A, TYPE 1	1.0%
G-1	463+11.84	IL 120	47.13	RT	CATCH BASIN, TYPE C, TYPE 24 FR & GR	736.44	736.22	733.23				G-1	29FT	12" SS CL A, TYPE 1	0.5%
G-2	463+11.84	IL 120	14.88	RT	CATCH BASIN, TYPE A, 4' DIA,TYPE 24 FR & GR	736.44	736.22	732.92	733.02			G-2	11FT	12" SS CL A, TYPE 1	0.5%
H-1	163+11.93	RAMP W-K	28.41	RT	CATCH BASIN, TYPE C, TYPE 24 FR & GR	737.99	737.51		734.94			H-1	31FT	12" SS CL A, TYPE 1	1.0%
H-2	163+11.93	RAMP W-K	5.41	LT	CATCH BASIN, TYPE A, 4' DIA,TYPE 24 FR & GR	737.99	737.51	734.63	734.53			H-2	64FT	PIPE DRAIN, 12"	
H-3	163+11.93	RAMP W-K	73.00	RT	METAL END SECTION, 12"			706.13							
J-1	463+12.00	IL 120	0.00	RT	MANHOLE, TYPE A, 4' DIA TYPE 1 FR & OL		736.22	732.71	732.81	732.61		J-1	345FT	12" SS CL A, TYPE 1	0.50%
J-2	466+60.00	IL 120	0.00	RT	EXISTING MEDIAN INLET		(733.46)	(730.71)			730.88				
K-1	472+00.17	IL 120	12.17	LT	CATCH BASIN, TYPE C, TYPE 24 FR & GR	732.27	731.93	728.60				K-1	49FT	12" SS CL A, TYPE 1	2.0%
K-2	472+00.17	IL 120	63.89	LT	CATCH BASIN, TYPE A, 4' DIA,TYPE 24 FR & GR	732.27	731.59	727.62	727.72			K-2	72FT	PIPE DRAIN, 12"	
K-3	472+00.17	IL 120	137.60	LT	METAL END SECTION, 12"			710.62							
L-1	471+99.31	IL 120	9.17	RT	CATCH BASIN, TYPE C, TYPE 24 FR & GR	732.13	731.67		728.27			L-1	53FT	12" SS CL A, TYPE 1	2.0%
L-2	471+99.31	IL 120	64.83	RT	CATCH BASIN, TYPE A, 4' DIA,TYPE 24 FR & GR	732.13	731.93	727.31	727.21			L-2	53FT	PIPE DRAIN, 12"	
L-3	471+99.71	IL 120	122.10	RT	METAL END SECTION, 12"			710.55							
N-1	474+84.35	IL 120	12.17	LT	CATCH BASIN, TYPE C, TYPE 24 FR & GR	729.91	729.79	726.55				N-1	57FT	12" SS CL A, TYPE 1	1.0%
N-2	474+84.38	IL 120	69.52	LT	CATCH BASIN, TYPE A, 4' DIA,TYPE 24 FR & GR	729.91	729.34	726.00	726.10			N-2	53FT	PIPE DRAIN, 12"	
N-3	474+84.42	IL 120	127.00	LT	METAL END SECTION, 12"			711.89							
P-1	474+82.72	IL 120	9.17	RT	CATCH BASIN, TYPE C, TYPE 24 FR & GR	729.84	729.39		726.40			P-1	55FT	12" SS CL A, TYPE 1	1.0%
P-2	474+82.68	IL 120	63.83	RT	CATCH BASIN, TYPE A, 4' DIA,TYPE 24 FR & GR	729.84	729.64	725.92	725.82			P-2	57FT	PIPE DRAIN, 12"	
P-3	474+84.64	IL 120	124.50	RT	METAL END SECTION, 12"			709.37							
R-1	453+37.00	IL 120	0.00	RT	PRC FLARED END SECTION, 12"				720.33						
R-2	457+60.00	IL 120	0.00	RT	FLUSH INLET BOX FOR MEDIAN	731.41					729.85	R-2	411FT	12" SS CL A, TYPE 1	2.25%

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8501 W. Higgins Road, Suite 280
 Chicago, Illinois 60631
 (773) 399-0112

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
DRAINAGE & PIPE SCHEDULE

SCALE: NTS SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333 342	*	LAKE	288	29
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

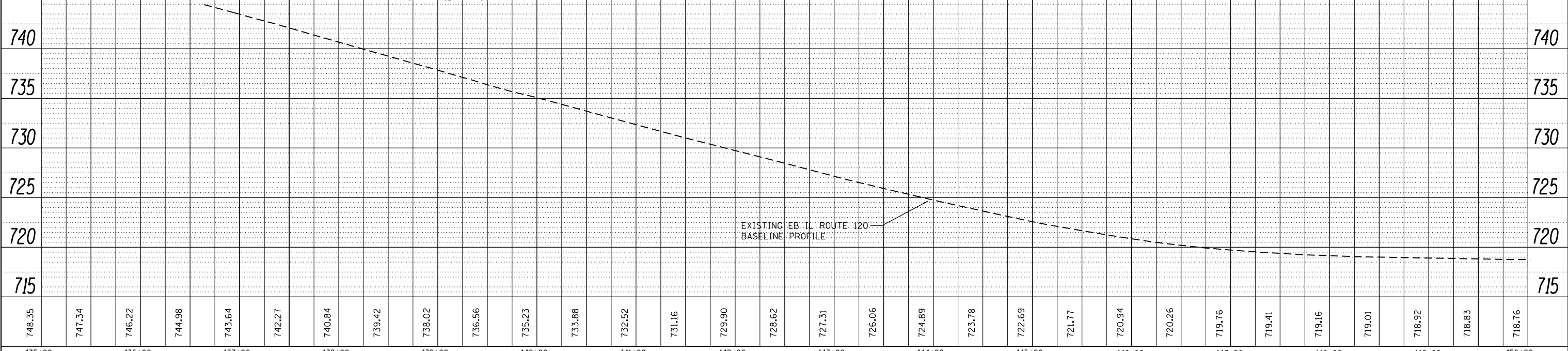
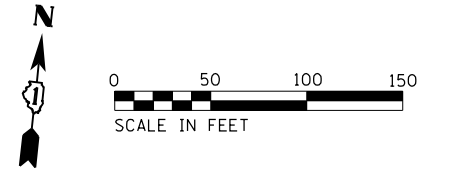
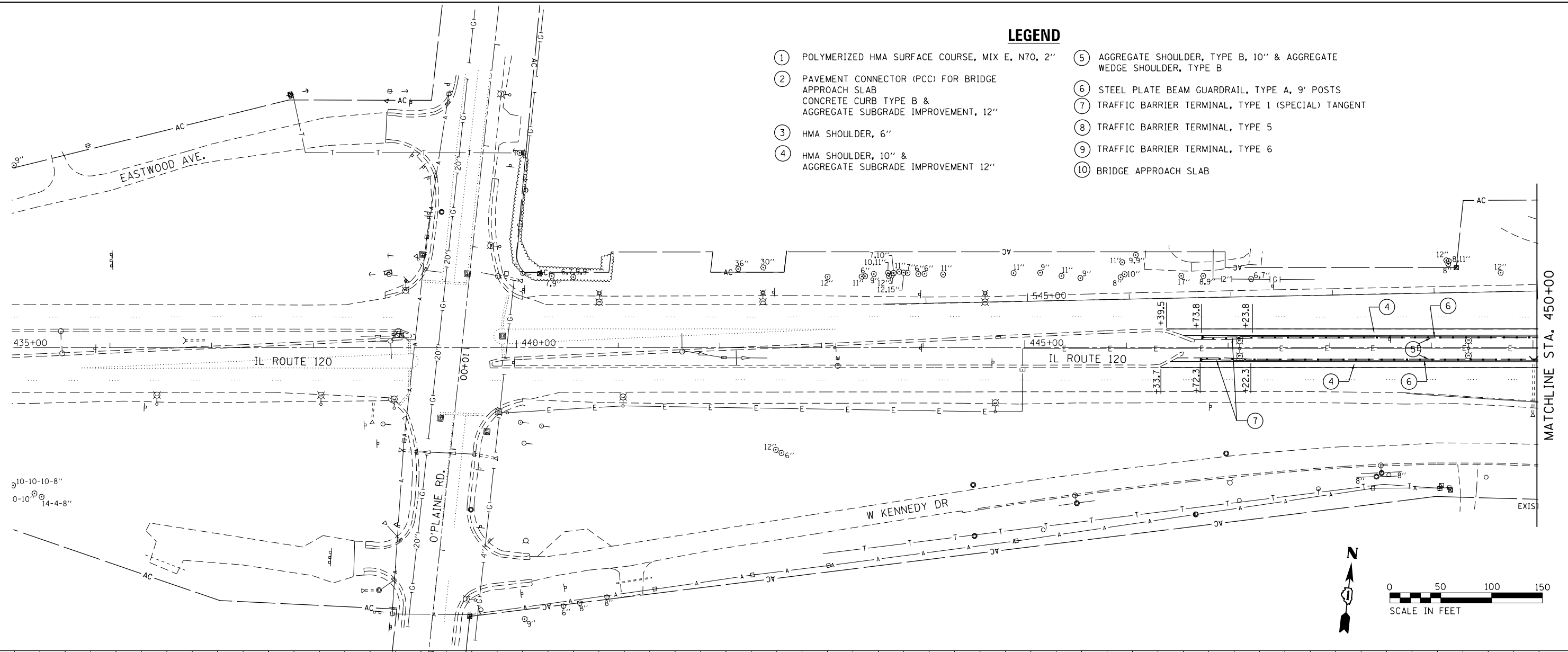
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PROFILE	SURVEYED	DATE
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	GRADES	
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	STRUCTURE	
	NOTATIONS	
	CHKD	
	NO. _____	
	FILE NAME	

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LEGEND

- ① POLYMERIZED HMA SURFACE COURSE, MIX E, N70, 2"
- ② PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
CONCRETE CURB TYPE B & AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ③ HMA SHOULDER, 6"
- ④ HMA SHOULDER, 10" & AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑤ AGGREGATE SHOULDER, TYPE B, 10" & AGGREGATE WEDGE SHOULDER, TYPE B
- ⑥ STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS
- ⑦ TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑧ TRAFFIC BARRIER TERMINAL, TYPE 5
- ⑨ TRAFFIC BARRIER TERMINAL, TYPE 6
- ⑩ BRIDGE APPROACH SLAB



748.35	747.34	746.22	744.98	743.64	742.27	740.84	739.42	738.02	736.56	735.23	733.88	732.52	731.16	729.90	728.62	727.31	726.06	724.89	723.78	722.69	721.77	720.94	720.26	719.76	719.41	719.16	719.01	718.92	718.83	718.76	
435+00	436+00	437+00	438+00	439+00	440+00	441+00	442+00	443+00	444+00	445+00	446+00	447+00	448+00	449+00	450+00																

GRAEF
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(773) 399-0112

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

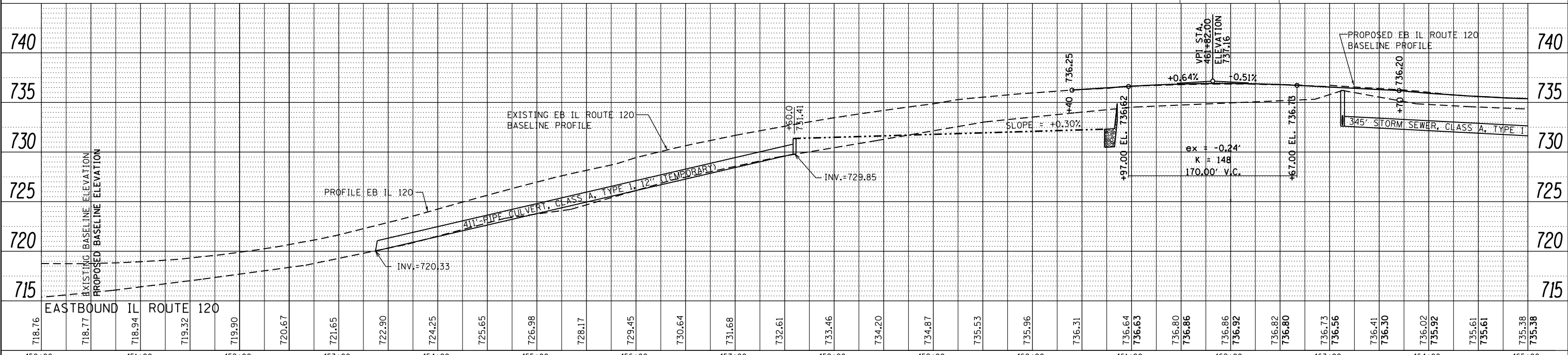
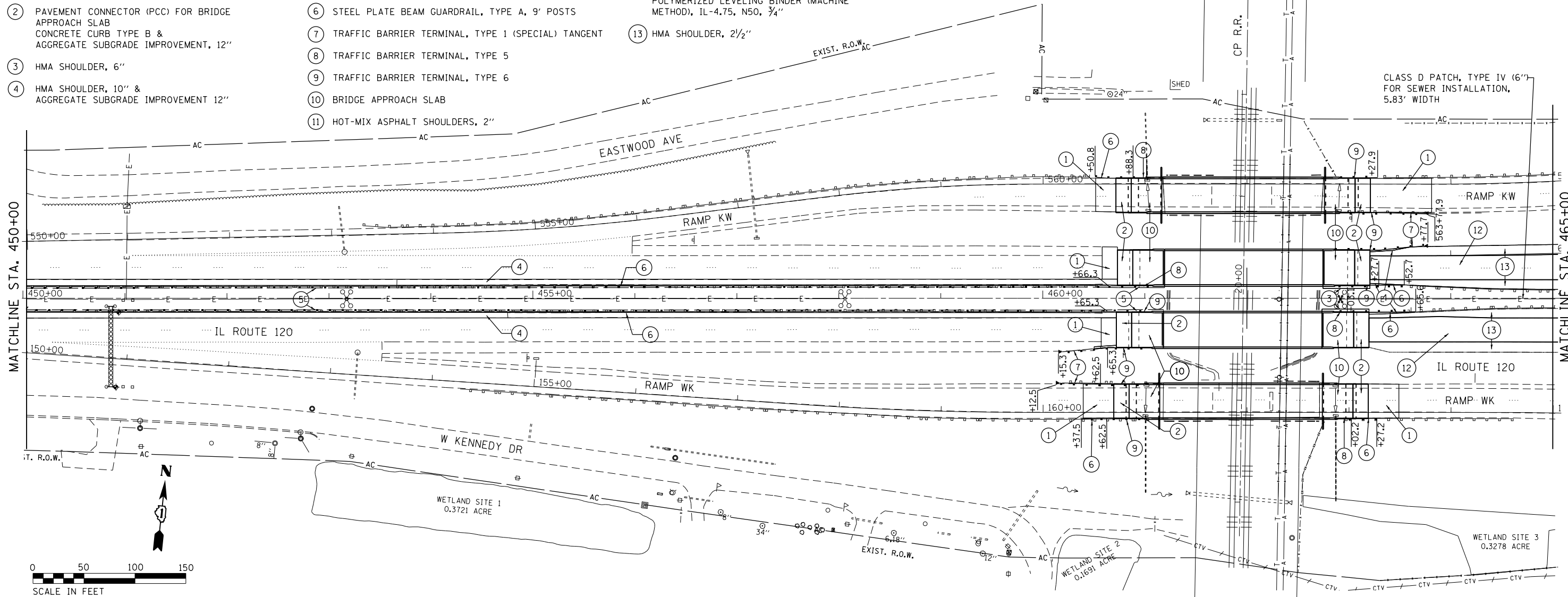
IL ROUTE 120 OVER CP RR, GREENLEAF STREET AND RAMPS
PLAN AND PROFILE

F.A.P. RTE. 333	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 30
342	* 12(VB-1&2)&12R-1(HB-2(BR))&12-RS-2	CONTRACT NO. 60X40	ILLINOIS FED. AID PROJECT	

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA. 450+00

LEGEND

- ① POLYMERIZED HMA SURFACE COURSE, MIX E, N70, 2"
- ② PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
CONCRETE CURB TYPE B & AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ③ HMA SHOULDER, 6"
- ④ HMA SHOULDER, 10" & AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑤ AGGREGATE SHOULDER, TYPE B, 10" & AGGREGATE WEDGE SHOULDER, TYPE B
- ⑥ STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS
- ⑦ TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑧ TRAFFIC BARRIER TERMINAL, TYPE 5
- ⑨ TRAFFIC BARRIER TERMINAL, TYPE 6
- ⑩ BRIDGE APPROACH SLAB
- ⑪ HOT-MIX ASPHALT SHOULDERS, 2"
- ⑫ POLYMERIZED HMA SURFACE COURSE, MIX E, N70, 1 3/4"
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑬ HMA SHOULDER, 2 1/2"



PLAN	SURVEYED	DATE
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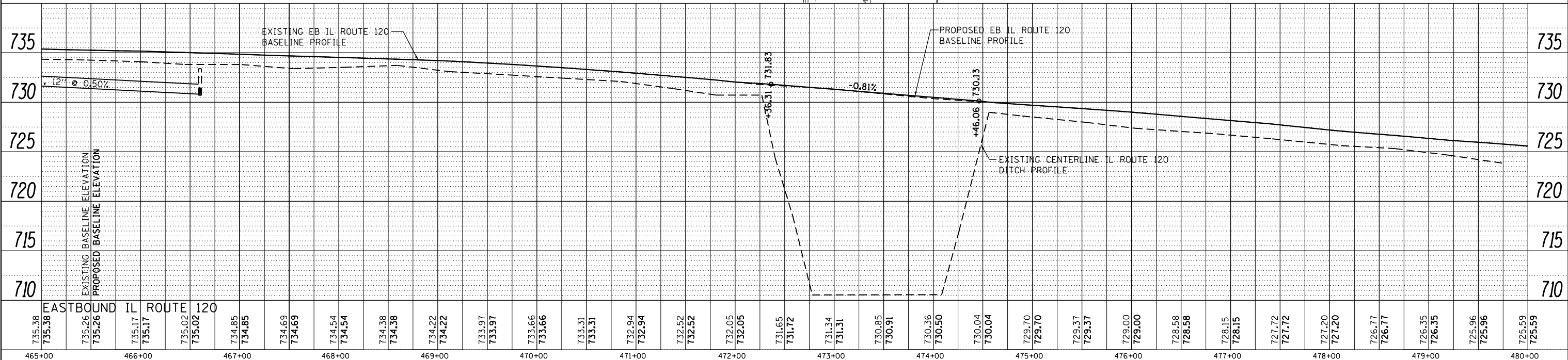
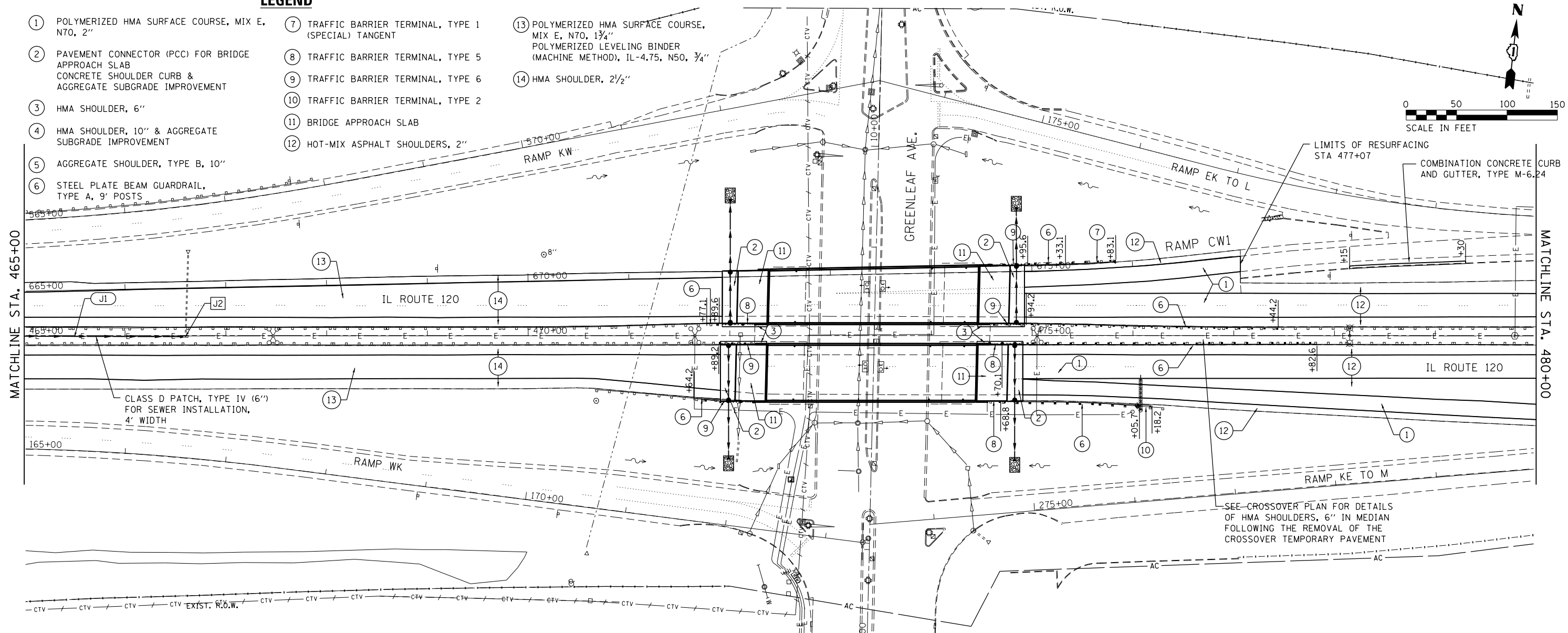
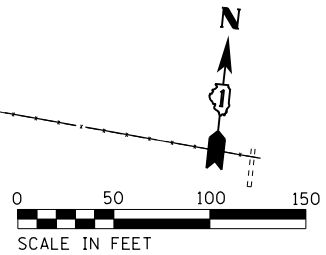
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8501 N. Higgins Road Suite 280 Chicago, Illinois 60631 (773) 399-0112	USER NAME = *USER* PLOT SCALE = 1200.0000' / ft. PLOT DATE = 3/21/2017 - 3:47:44 PM	DESIGNED - JO DRAWN - ED CHECKED - RS DATE - 08/26/2015	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 120 OVER CP RR, GREENLEAF STREET AND RAMPS PLAN AND PROFILE	SCALE: 1"=50'H 1"=5'V	SHEET 2 OF 4 SHEETS STA. 450+00 TO STA. 465+00	SECTION * COUNTY LAKE TOTAL SHEETS 288 SHEET NO. 31	CONTRACT NO. 60X40 ILLINOIS FED. AID PROJECT
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LEGEND

- ① POLYMERIZED HMA SURFACE COURSE, MIX E, N70, 2"
- ② PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB CONCRETE SHOULDER CURB & AGGREGATE SUBGRADE IMPROVEMENT
- ③ HMA SHOULDER, 6"
- ④ HMA SHOULDER, 10" & AGGREGATE SUBGRADE IMPROVEMENT
- ⑤ AGGREGATE SHOULDER, TYPE B, 10"
- ⑥ STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS
- ⑦ TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑧ TRAFFIC BARRIER TERMINAL, TYPE 5
- ⑨ TRAFFIC BARRIER TERMINAL, TYPE 6
- ⑩ TRAFFIC BARRIER TERMINAL, TYPE 2
- ⑪ BRIDGE APPROACH SLAB
- ⑫ HOT-MIX ASPHALT SHOULDERS, 2"
- ⑬ POLYMERIZED HMA SURFACE COURSE, MIX E, N70, 1 3/4" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑭ HMA SHOULDER, 2 1/2"



PLAN	SURVEYED	DATE
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PLOT SCALE = 1200.0000" / ft. PLOT DATE = 3/21/2017 - 5:17:53 PM			SCALE: SHEET 3 OF 4 SHEETS STA. 465+00 TO STA. 480+00		

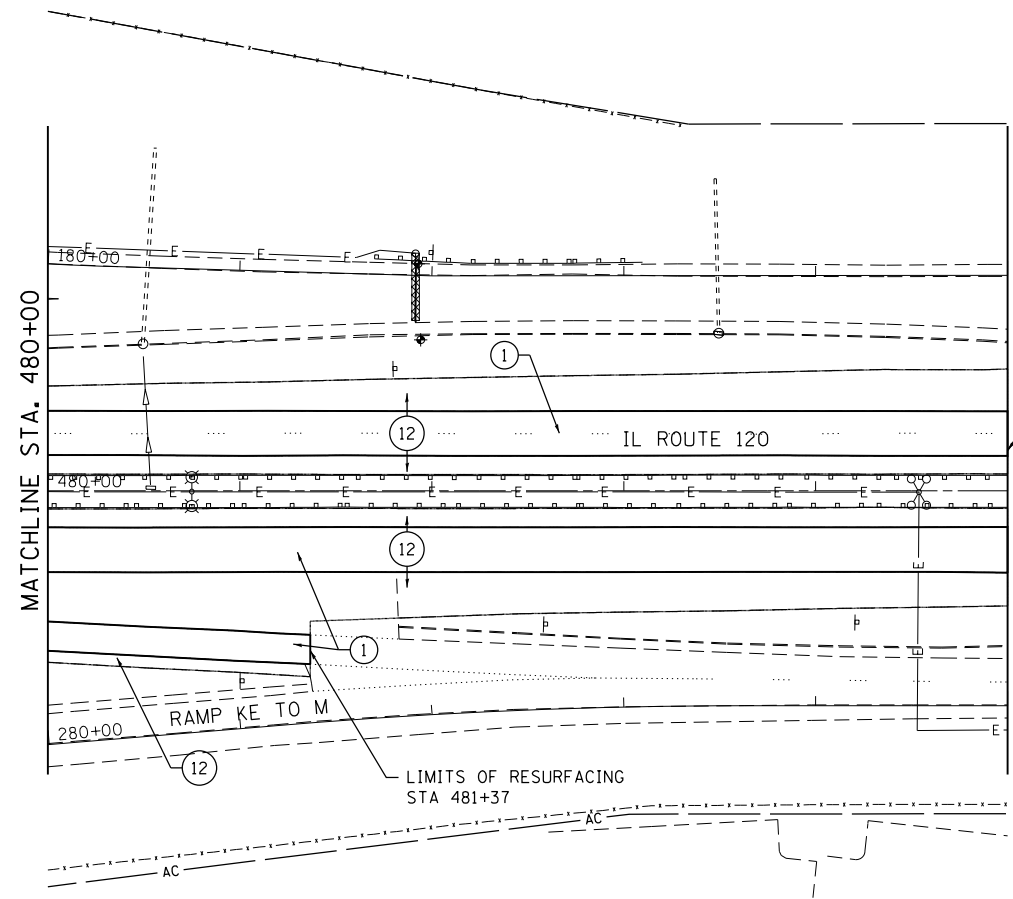


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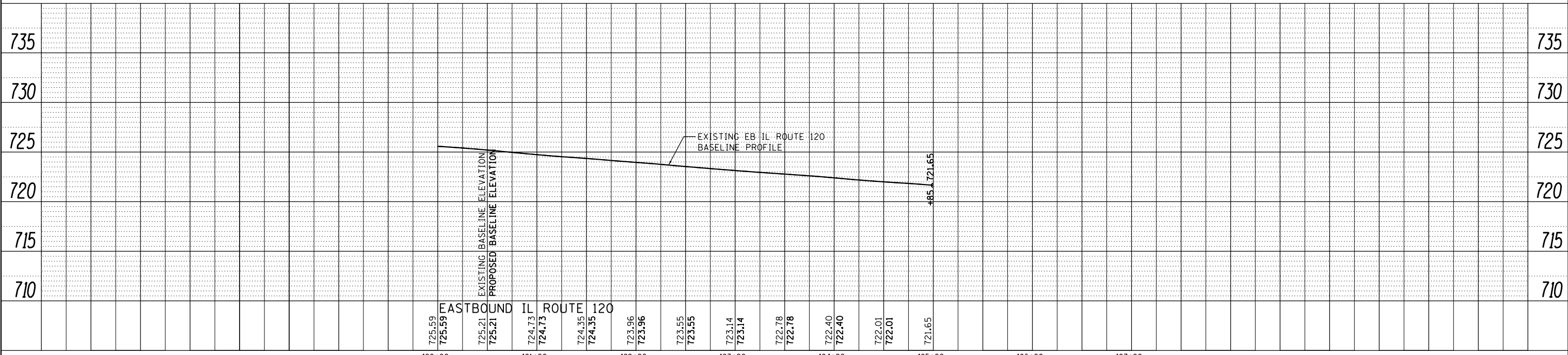
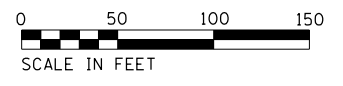
- ① POLYMERIZED HMA SURFACE COURSE, MIX E, N70, 2"
- ② PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
CONCRETE SHOULDER CURB & AGGREGATE SUBGRADE IMPROVEMENT
- ③ HMA SHOULDER, 6"
- ④ HMA SHOULDER, 10" & AGGREGATE SUBGRADE IMPROVEMENT
- ⑤ AGGREGATE SHOULDER, TYPE B, 10"
- ⑥ STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS
- ⑦ TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑧ TRAFFIC BARRIER TERMINAL, TYPE 5
- ⑨ TRAFFIC BARRIER TERMINAL, TYPE 6
- ⑩ TRAFFIC BARRIER TERMINAL, TYPE 2
- ⑪ BRIDGE APPROACH SLAB
- ⑫ HOT-MIX ASPHALT SHOULDERS, 2"

PLAN	SURVEYED	DATE
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	NOTE BOOK NO.	
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	GRADES CHECKED	
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	NOTE BOOK NO.	
	CADD FILE NAME	



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



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

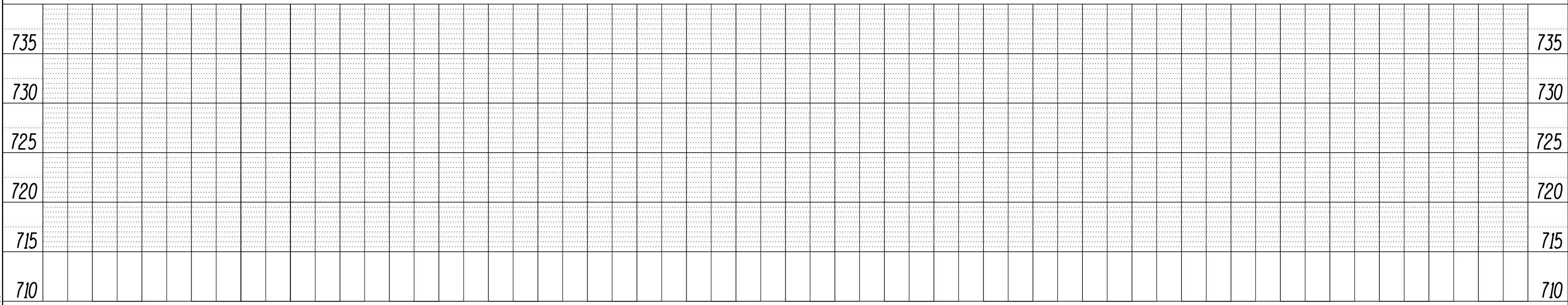
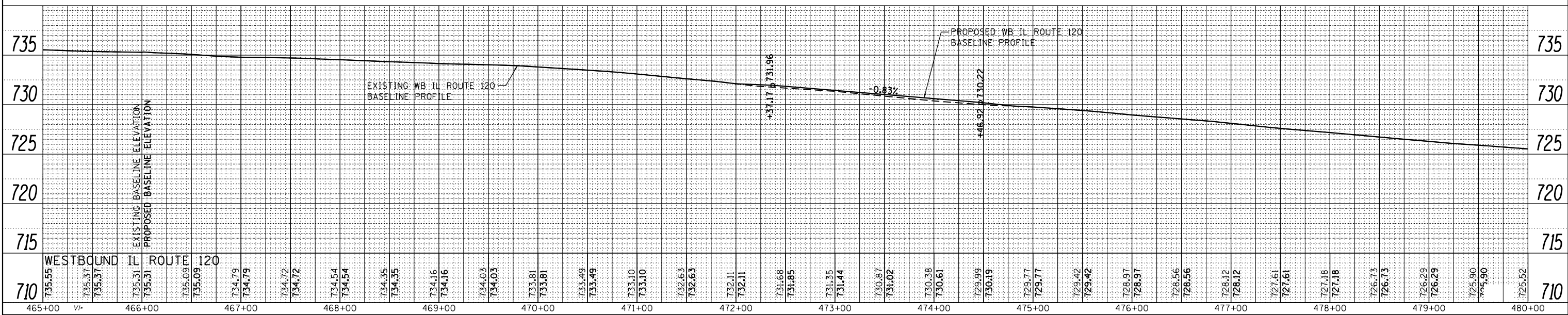
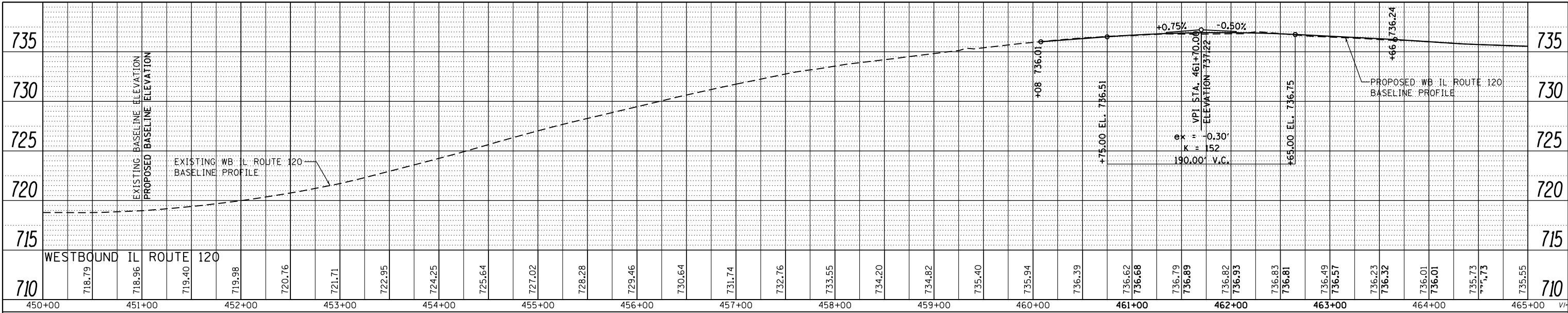
**IL ROUTE 120 OVER CP RR, GREENLEAF STREET AND RAMPS
PLAN AND PROFILE**

SCALE: SHEET 4 OF 4 SHEETS STA. 480+00 TO STA. 485+00

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 33
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

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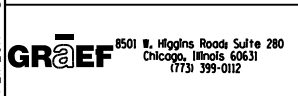
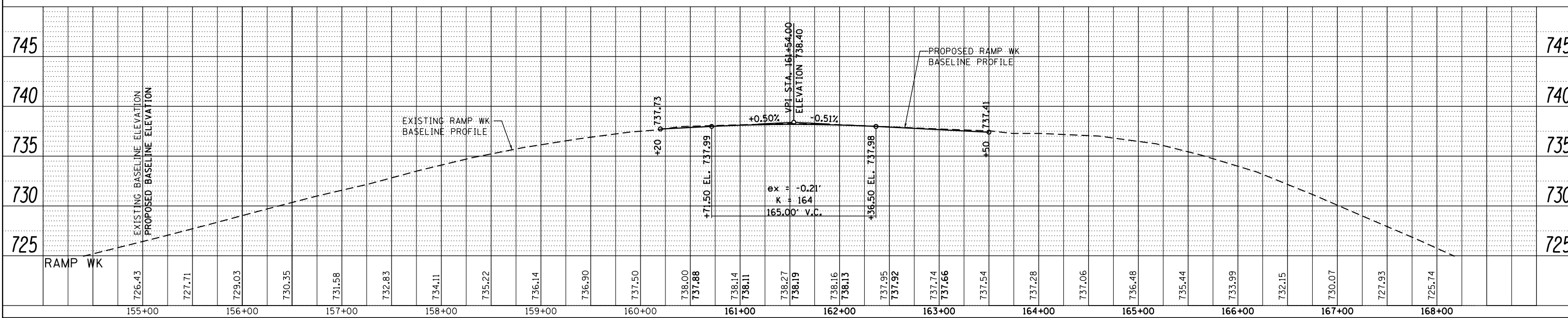
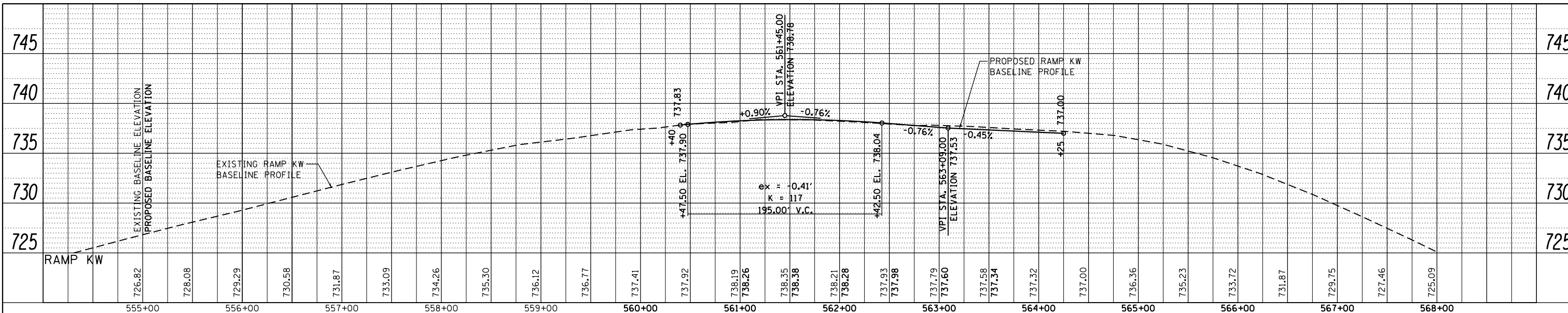
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 120 OVER CP RR, GREENLEAF STREET AND RAMPS			
PROFILES			
SCALE:	SHEET 1	OF 2 SHEETS	STA. 450+00 TO STA. 480+00

F.A.P. RTE. 333/342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 34
* 12(WB-1&2)&12R-1HB-2(BR)&12-RS-2		CONTRACT NO. 60X40		
ILLINOIS FED. AID PROJECT				

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NOTE BOOK	GRADES CHECKED	
NO.	STRUCTURE	NOTATIONS CHKD

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 120 OVER CP RR, GREENLEAF STREET AND RAMPS			
PROFILES			
SCALE:	SHEET 2 1	OF 2	SHEETS
	STA. 450+00	TO STA. 480+00	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333 342	*	LAKE	288	35
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2		CONTRACT NO. 60X40		
ILLINOIS FED. AID PROJECT				

MAINTENANCE OF TRAFFIC AND EROSION & SEDIMENT CONTROL SEQUENCING

CONSTRUCTION	MAINTENANCE OF TRAFFIC	EROSION & SEDIMENT CONTROL
PRE-STAGE - CONSTRUCT TEMPORARY CROSSOVERS		
INSTALL PROTECTIVE SHIELDING ON ALL BRIDGES.	COORDINATE WITH CP RR FOR PLACEMENT OVER TRACKS. USE HIGHWAY STANDARD 701601 FOR LANE CLOSURES ON GREENLEAF STREET.	
INSTALL TEMPORARY LIGHTING.	HIGHWAY STANDARD 701101.	
REMOVE CONFLICTING GUARDRAIL.	HIGHWAY STANDARD 701421.	INSTALL PERIMETER EROSION BARRIER AROUND IMPACTED AREA AND SITE ACCESS.
INSTALL TEMPORARY STORM SEWER IN MEDIAN. CONSTRUCT TEMPORARY PAVEMENT CROSSOVERS.	HIGHWAY STANDARD 701421.	INSTALL INLET FILTERS AND TEMPORARY DITCH CHECKS AS STRUCTURES ARE CONSTRUCTED.
		PLACE TEMPORARY EROSION CONTROL SEEDING AND TEMPORARY EROSION CONTROL BLANKET PER STANDARD SPECIFICATIONS
CLOSE CROSSOVER USING TEMPORARY CONCRETE BARRIER AND CONNECT TO EXISTING GUARDRAIL USING TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 11	HIGHWAY STANDARDS 701421.	
WINTER STAGE		
STAGE 1 REHABILITATE WESTBOUND BRIDGES		
INSTALL STAGE 1 TEMPORARY GUARDRAIL, TEMPORARY CONCRETE BARRIER, TEMPORARY PAVEMENT MARKINGS AND SIGNING. SHIFT WESTBOUND TRAFFIC TO EASTBOUND LANE. REMOVE CONFLICTING PAVEMENT MARKINGS	MAINTENANCE OF TRAFFIC STAGE 1 PLANS ON OR AFTER APRIL 1. THE WESTBOUND ON RAMP FROM GREENLEAF STREET TO IL 120 WILL BE CLOSED. TRAFFIC USING THE RAMP WILL UTILIZE THE DETOUR ROUTE - STAGE 1.	MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES INSTALLED IN THE PRE-STAGE
REMOVE WESTBOUND BRIDGE DECKS AND APPROACH SLABS. REMOVE WESTBOUND IL 120 SURFACE, SECTIONS OF FULL DEPTH PAVEMENT REMOVAL NEAR BRIDGES, AND PERFORM PAVEMENT PATCHING. REMOVE PORTIONS OF EXISTING LIGHTING SYSTEM. CONSTRUCT WESTBOUND EMBANKMENTS.	TRAFFIC IN STAGE 1 CONFIGURATION.	INSTALL PERIMETER EROSION BARRIER AROUND STAGE 1 CONSTRUCTION SITE. PLACE TEMPORARY EROSION CONTROL SEEDING PER STANDARD SPECIFICATIONS. MAINTAIN EROSION CONTROL DEVICES INSTALLED IN PRE-STAGE
CONSTRUCT STORM SEWERS IN WESTBOUND LANES	TRAFFIC IN STAGE 1 CONFIGURATION.	INSTALL INLET FILTERS AND TEMPORARY DITCH CHECKS AS STRUCTURES ARE CONSTRUCTED.
MAKE NECESSARY SUBSTRUCTURE AND SUPERSTRUCTURE REPAIRS.	TRAFFIC IN STAGE 1 CONFIGURATION.	
CONSTRUCT WESTBOUND BRIDGE DECKS AND PAVEMENTS.	TRAFFIC IN STAGE 1 CONFIGURATION.	INSTALL AND MAINTAIN CONCRETE WASHOUT AREAS.
PLACE PERMANENT LANDSCAPING IMPROVEMENTS ALONG WESTBOUND ROADWAYS.	TRAFFIC IN STAGE 1 CONFIGURATION.	
WINTER STAGE		
STAGE 2		
INSTALL STAGE 2 TEMPORARY GUARDRAIL, TEMPORARY CONCRETE BARRIER, TEMPORARY PAVEMENT MARKINGS AND SIGNING. INSTALL STAGE 2 TEMPORARY LIGHTING. SHIFT EASTBOUND TRAFFIC TO WESTBOUND LANE.	MAINTENANCE OF TRAFFIC STAGE 2 PLANS ON OR AFTER APRIL 1. THE EASTBOUND OFF RAMP FROM IL 120 TO GREENLEAF STREET TO WILL BE CLOSED. TRAFFIC USING THE RAMP WILL UTILIZE THE DETOUR ROUTE - STAGE 2.	MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES INSTALLED IN THE PRE-STAGE AND STAGE 1
REMOVE EASTBOUND BRIDGE DECKS AND APPROACH SLABS. REMOVE EASTBOUND IL 120 SURFACE, SECTIONS OF FULL DEPTH PAVEMENT REMOVAL NEAR BRIDGES, AND PERFORM PAVEMENT PATCHING. REMOVE PORTIONS OF EXISTING LIGHTING SYSTEM. CONSTRUCT EASTBOUND EMBANKMENTS.	TRAFFIC IN STAGE 2 CONFIGURATION.	INSTALL PERIMETER EROSION BARRIER AROUND STAGE 2 CONSTRUCTION SITE. PLACE TEMPORARY EROSION CONTROL SEEDING PER STANDARD SPECIFICATIONS.
CONSTRUCT STORM SEWERS IN EASTBOUND LANES	TRAFFIC IN STAGE 2 CONFIGURATION.	INSTALL INLET FILTERS AND TEMPORARY DITCH CHECKS AS STRUCTURES ARE CONSTRUCTED.
MAKE NECESSARY SUBSTRUCTURE AND SUPERSTRUCTURE REPAIRS.	TRAFFIC IN STAGE 2 CONFIGURATION. USE HIGHWAY STANDARD 701601 FOR LANE CLOSURES ON GREENLEAF STREET.	
CONSTRUCT EASTBOUND BRIDGE DECKS AND PAVEMENTS.	TRAFFIC IN STAGE 2 CONFIGURATION.	INSTALL AND MAINTAIN CONCRETE WASHOUT AREAS.
PLACE PERMANENT LANDSCAPING IMPROVEMENTS ALONG EASTBOUND ROADWAYS.	TRAFFIC IN STAGE 2 CONFIGURATION.	
REMOVE TEMPORARY PAVEMENT AND TEMPORARY STORM SEWERS. RESTORE MEDIAN CROSSOVERS TO PRE-CONSTRUCTION CONDITIONS.	HIGHWAY STANDARD 701422	
REMOVE PROTECTIVE SHIELDING ON ALL BRIDGES.	COORDINATE WITH CP RR FOR PLACEMENT OVER TRACKS. USE HIGHWAY STANDARD 701601 FOR LANE CLOSURES ON GREENLEAF STREET.	
INSTALL PROPOSED GUARDRAIL.	HIGHWAY STANDARD 701422	
STAGE 3		
REMOVE TEMPORARY STREET LIGHTING AND REMAINDER OF EXISTING LIGHTING SYSTEM. INSTALL PERMANENT STREET LIGHTING.	HIGHWAY STANDARDS 701101 AND 701701.	MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES INSTALLED THROUGH STAGE 2.
CONSTRUCT HMA SURFACE AND HMA SHOULDER SURFACE. INSTALL PAVEMENT MARKINGS.	HIGHWAY STANDARDS 701421, 701422, 701426 AND 701601.	REMOVE TEMPORARY EROSION CONTROL DEVICES AFTER SITE IS STABILIZED.

MAINTENANCE OF TRAFFIC – GENERAL NOTES

- ALL TRAFFIC CONTROL DEVICES USED FOR STAGING AND TRAFFIC CONTROL AND DETAILED ON THE PLANS, SHALL BE REFLECTORIZED PRIOR TO THE INSTALLATION AND CLEANED AS NECESSARY THROUGH THE DURATION OF THE CONTRACT.
- THE CONTRACTOR SHALL REMOVE ALL PERMANENT AND TEMPORARY PAVEMENT MARKING WHICH CONFLICTS WITH STAGING OR PERMANENT PAVEMENT MARKING, PER THE PAVEMENT MARKING REMOVAL(BDE) SPECIAL PROVISION.
- THE CONTRACTOR SHALL COVER, RELOCATE, OR REMOVE ALL CONFLICTING EXISTING SIGNS.
- SIGN COVERS SHALL CONSIST OF A RIGID MATERIAL THAT IS NOT TAPED OR AFFIXED TO THE SIGN FACE BY ANY TYPE OF ADHESIVE THAT COULD DAMAGE THE SIGN SHEETING.
- IN LOCATIONS WHERE EXISTING RAISED REFLECTIVE PAVEMENT MARKERS CONFLICT WITH THE REQUIRED TEMPORARY PAVEMENT MARKINGS, THE REFLECTORS IN THE EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED.
- CONSTRUCTION SIGN PLACEMENT MAY BE ADJUSTED SLIGHTLY TO FIELD CONDITIONS.
- UPON COMPLETION OF THE TEMPORARY CROSSOVERS, TEMPORARY CONCRETE BARRIER SHALL BE PLACED TO PROHIBIT TRAFFIC FROM ACCESSING THE CROSSOVERS DURING THE WINTER SHUTDOWN. THE TEMPORARY CONCRETE BARRIER SHALL BE REMOVED WHEN CROSSOVERS ARE UTILIZED FOR MAINTENANCE OF TRAFFIC IN STAGES 1 AND 2.

EROSION CONTROL NOTES

- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES - MAINTENANCE GUIDE: (WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT)
- THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
- THE CONTRACTOR SHALL CHECK ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
- TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.
- UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
- EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RESIDENT ENGINEER.
- "WETLANDS NO INTRUSION" SIGNAGE SHOULD BE PROVIDED AT THE BOUNDARY OF ALL UN-IMPACTED WETLANDS AND/OR WOUS. THE CONTRACTOR CAN BORROW THE SIGNS FROM THE BUREAU OF MAINTENANCE. INCLUDE TEMPORARY FENCING AND WETLAND SIGNAGE WITHIN THE EROSION CONTROL AND SEDIMENT CONTROL STRATEGY.
- MAINTENANCE SUCH AS CLEANUP OF LITTER AND DEBRIS ALONG THE EMBANKMENTS, IS INCIDENTAL.
- CONCRETE WASHOUT IS NOT TO BE DONE ON THE EMBANKMENTS OR ALLOWED INTO THE INLETS LOCATED AT OR BELOW THE BRIDGE DECKS.

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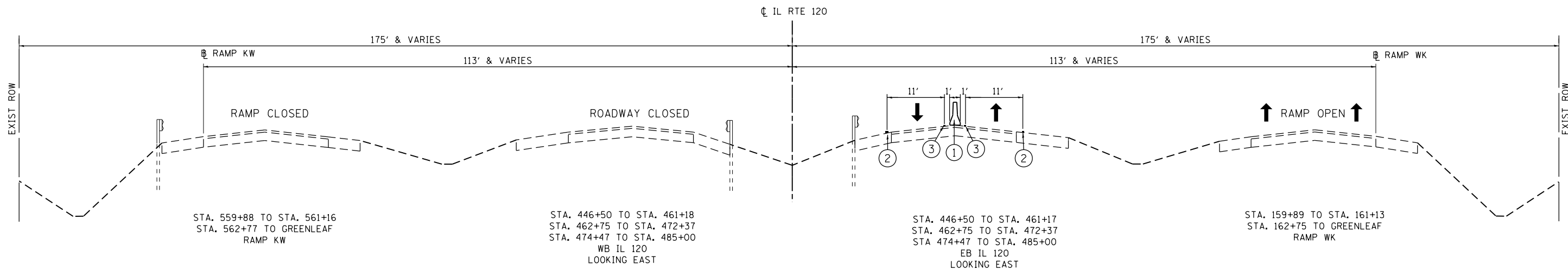
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DEPARTMENT OF TRANSPORTATION**

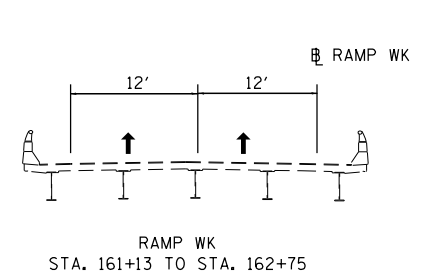
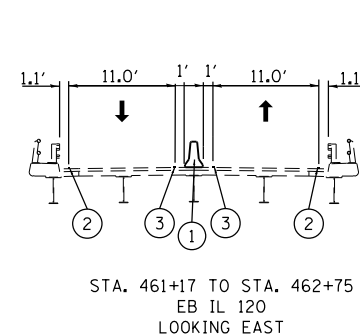
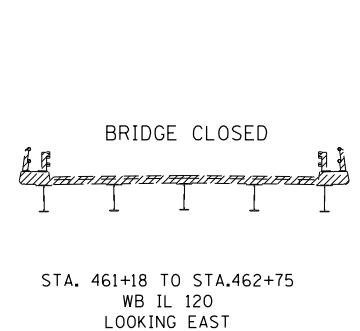
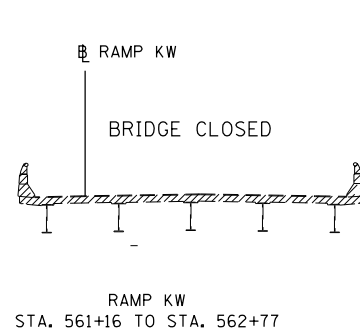
**IL ROUTE 120 OVER CP RR, GREENLEAF AVE. & RAMPS
MAINTENANCE OF TRAFFIC SEQUENCE OF OPERATIONS
AND EROSION & SEDIMENT CONTROL NOTES**

SCALE: NONE SHEET 1 OF 18 SHEETS STA. TO STA.

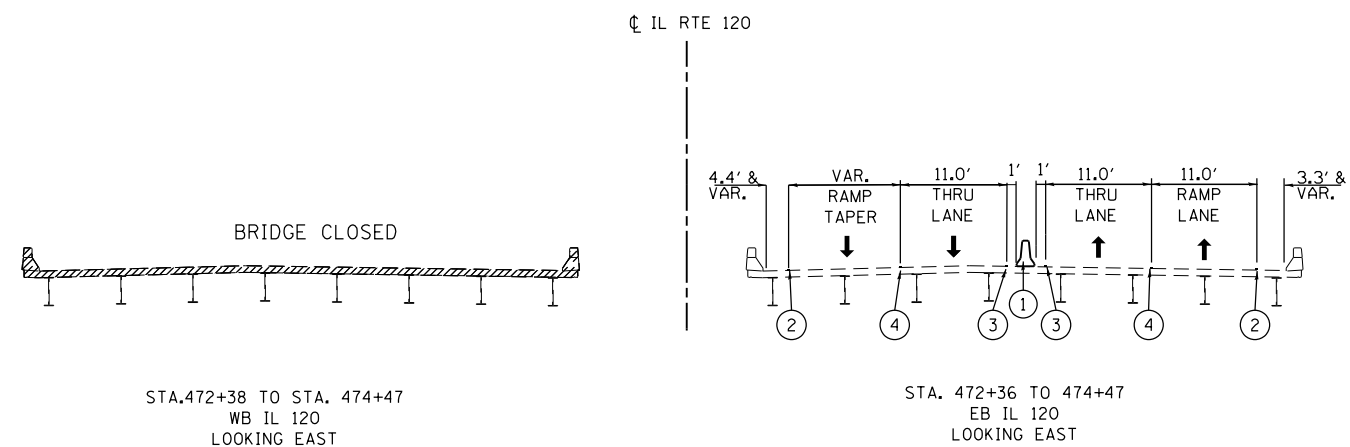
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333 342	*	LAKE	288	36
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



MOT ROADWAY TYPICAL SECTION STAGE 1



MOT BRIDGE TYPICAL SECTION STAGE 1



MOT BRIDGE TYPICAL SECTION STAGE 1

MOT LEGEND

- ① TEMPORARY CONCRETE BARRIER (PINNED)
- ② TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
- ③ TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
- ④ TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE) 2' DASH 6' SKIP

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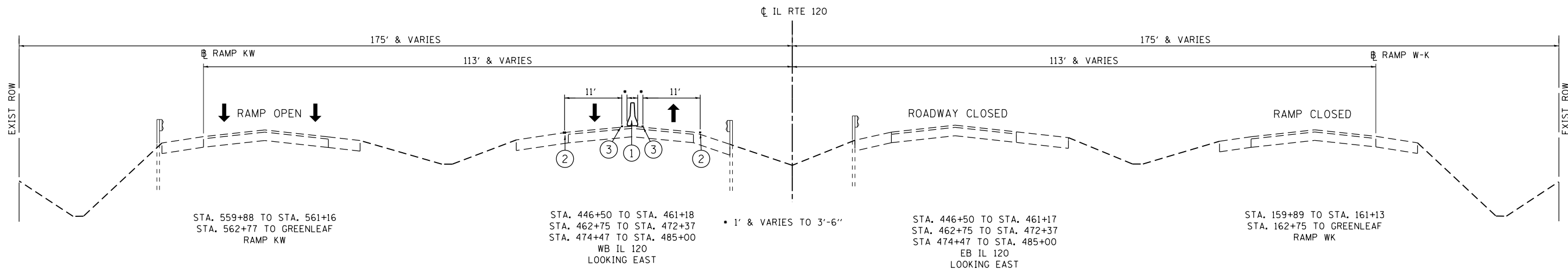
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DEPARTMENT OF TRANSPORTATION**

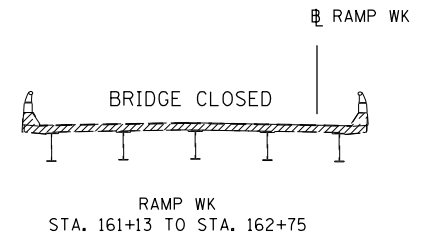
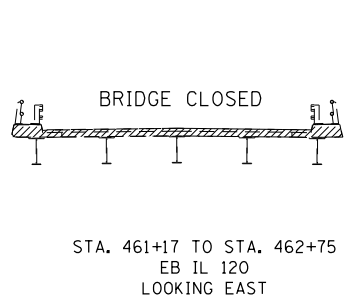
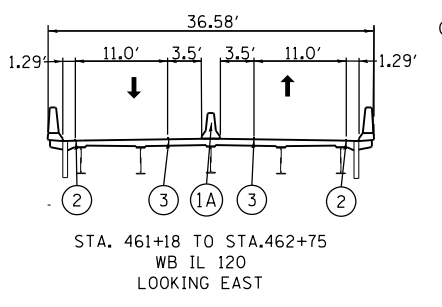
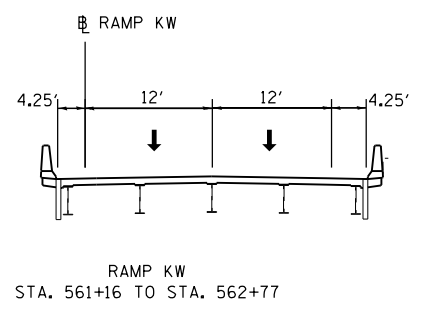
**IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
CONSTRUCTION STAGING TYPICAL SECTIONS STAGE 1**

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 37
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ILLINOIS FED. AID PROJECT				

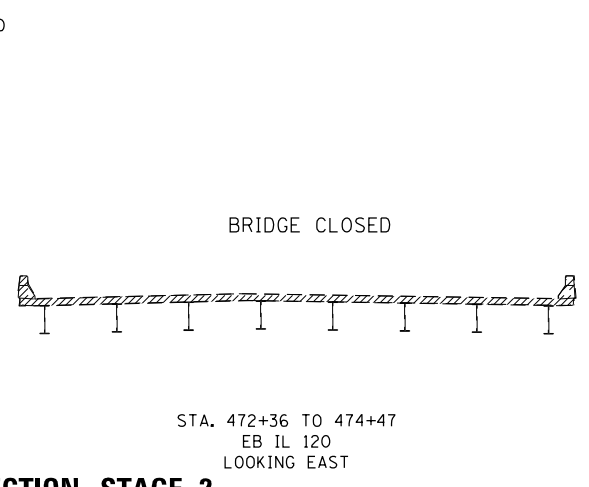
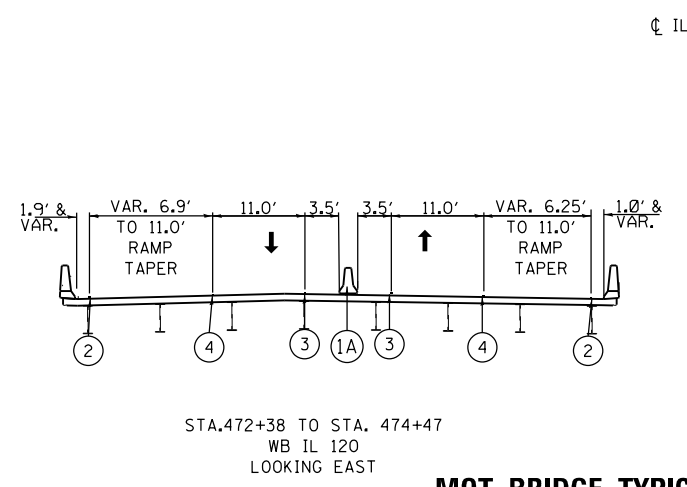
SCALE: SHEET 2 OF 18 SHEETS STA. TO STA.



MOT ROADWAY TYPICAL SECTION STAGE 2



MOT BRIDGE TYPICAL SECTION STAGE 2



MOT BRIDGE TYPICAL SECTION STAGE 2

MOT LEGEND

- ① TEMPORARY CONCRETE BARRIER (PINNED)
- ①A TEMPORARY CONCRETE BARRIER (NOT-PINNED)
- ② TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
- ③ TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
- ④ TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE) 2' DASH 6' SKIP

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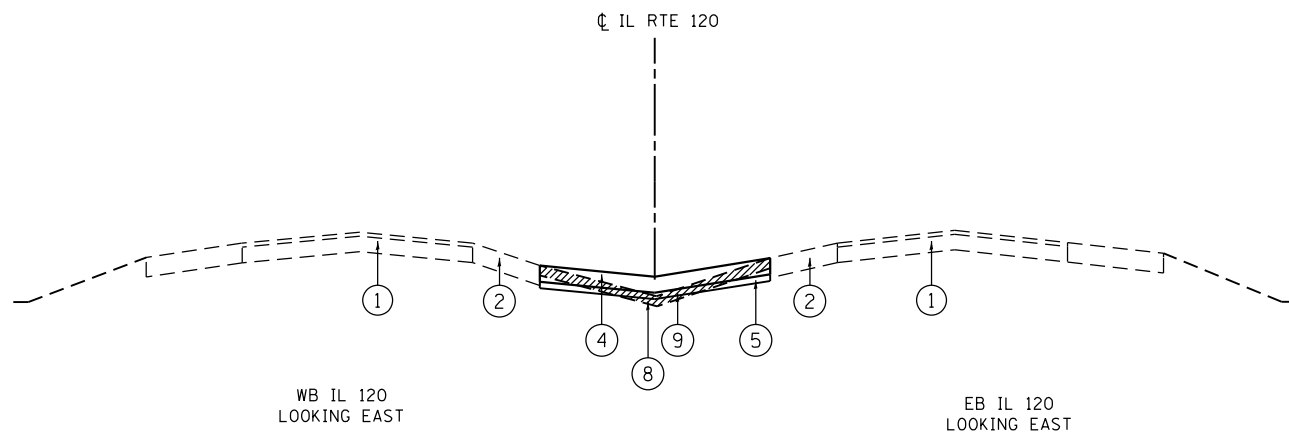
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
CONSTRUCTION STAGING TYPICAL SECTIONS STAGE 2**

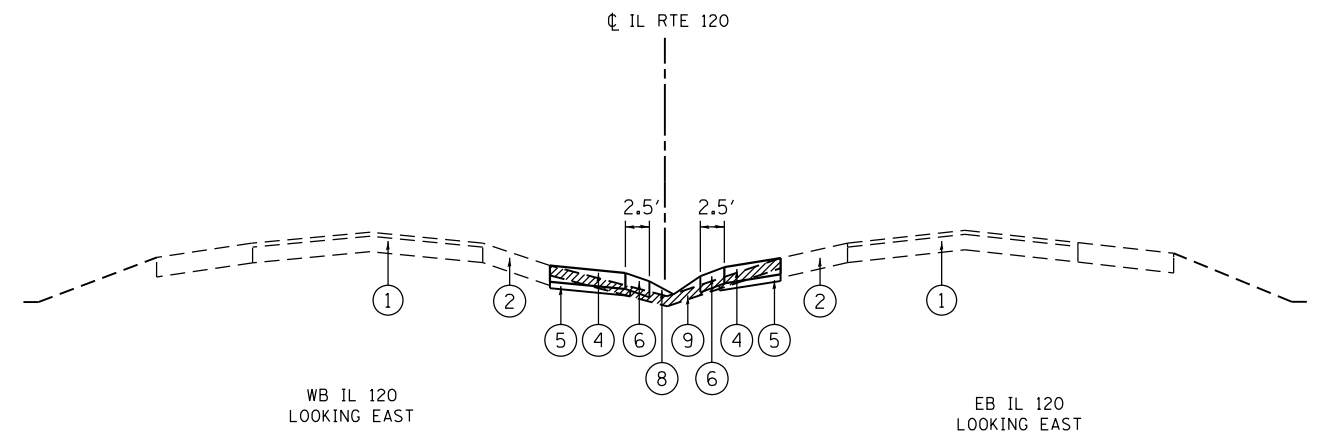
SCALE: SHEET 3 OF 18 SHEETS STA. TO STA.

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 38
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



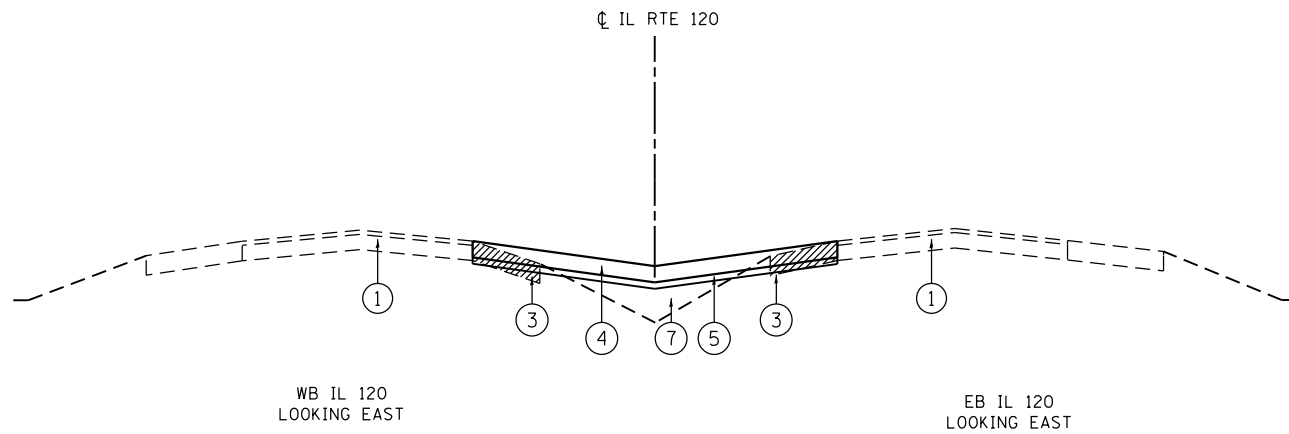
MOT CROSSOVER TYPICAL SECTION – EAST OF GREENLEAF AVE.

SECTION WHERE TEMPORARY PAVEMENT
EXTENDS FULL WIDTH OF MEDIAN
(APPROXIMATE STATIONS: 476+00 TO 477+20)



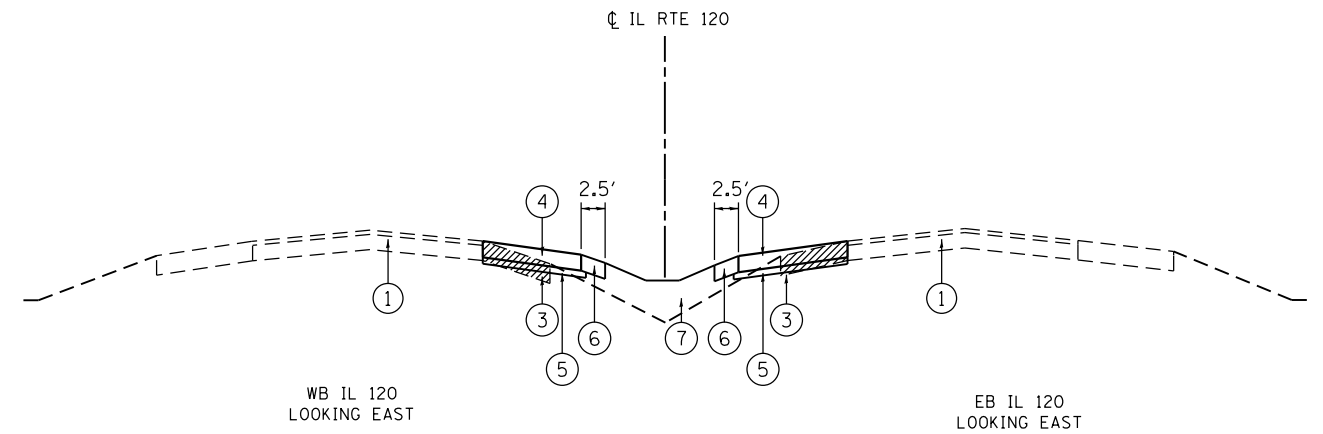
MOT CROSSOVER TYPICAL SECTION – EAST OF GREENLEAF AVE.

SECTION WHERE TEMPORARY PAVEMENT
EXTENDS PARTIAL WIDTH OF MEDIAN



MOT CROSSOVER TYPICAL SECTION – WEST OF CANADIAN PACIFIC RAILROAD

SECTION WHERE TEMPORARY PAVEMENT
EXTENDS FULL WIDTH OF MEDIAN
(APPROXIMATE STATIONS: 454+00 TO 456+85)



MOT CROSSOVER TYPICAL SECTION – WEST OF CANADIAN PACIFIC RAILROAD

SECTION WHERE TEMPORARY PAVEMENT
EXTENDS PARTIAL WIDTH OF MEDIAN

NOTES:

HMA SURFACE COURSE, MIX "D", N70 (IL 9.5mm), 2" AND HMA BINDER (IL 19mm), 8" ARE PAID FOR AS "TEMPORARY PAVEMENT"

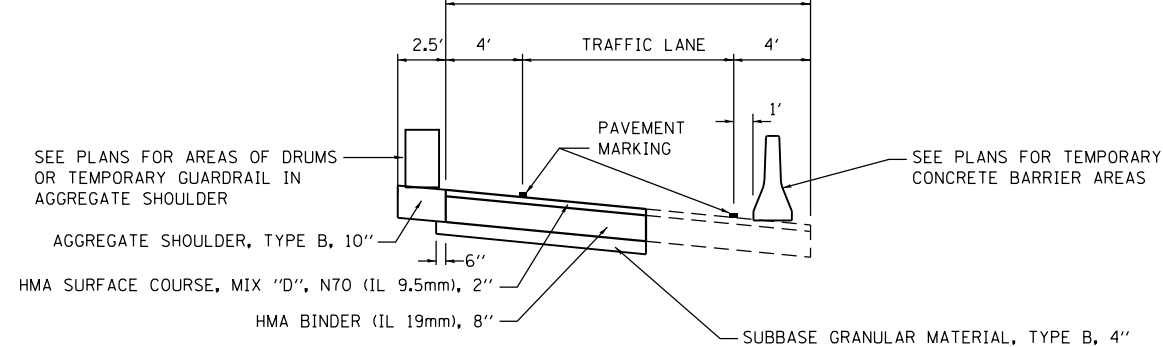
2.5' WIDE AGGREGATE SHOULDER, TYPE B, 10" SHALL BE PLACED ADJACENT TO NEW TEMPORARY PAVEMENT IN THE MEDIAN EXCEPT WHERE THE TEMPORARY PAVEMENT IS ADJACENT TO EXISTING PAVEMENT OR EXISTING HMA SHOULDERS.

PROPOSED MEDIAN PERMANENT FEATURES IN THE AREAS OF THE CROSSOVERS SHALL NOT BE CONSTRUCTED UNTIL THE CROSSOVERS ARE NO LONGER NEEDED AND ARE REMOVED.

SEE REMOVAL PLANS AND SCHEDULES FOR AREAS OF EXISTING GUARDRAIL REMOVAL IN CROSSOVER AREAS.

SEE PLANS FOR LOCATIONS OF TEMPORARY GUARDRAIL, DRUMS AND TEMPORARY CONCRETE BARRIER.

FULL WIDTH TO CONSIST OF EXISTING PAVEMENT, EXISTING 12.5" ASPHALT SHOULDER, OR TEMPORARY PAVEMENT



MOT TRAFFIC LANE DETAIL

MOT CROSSOVER LEGEND

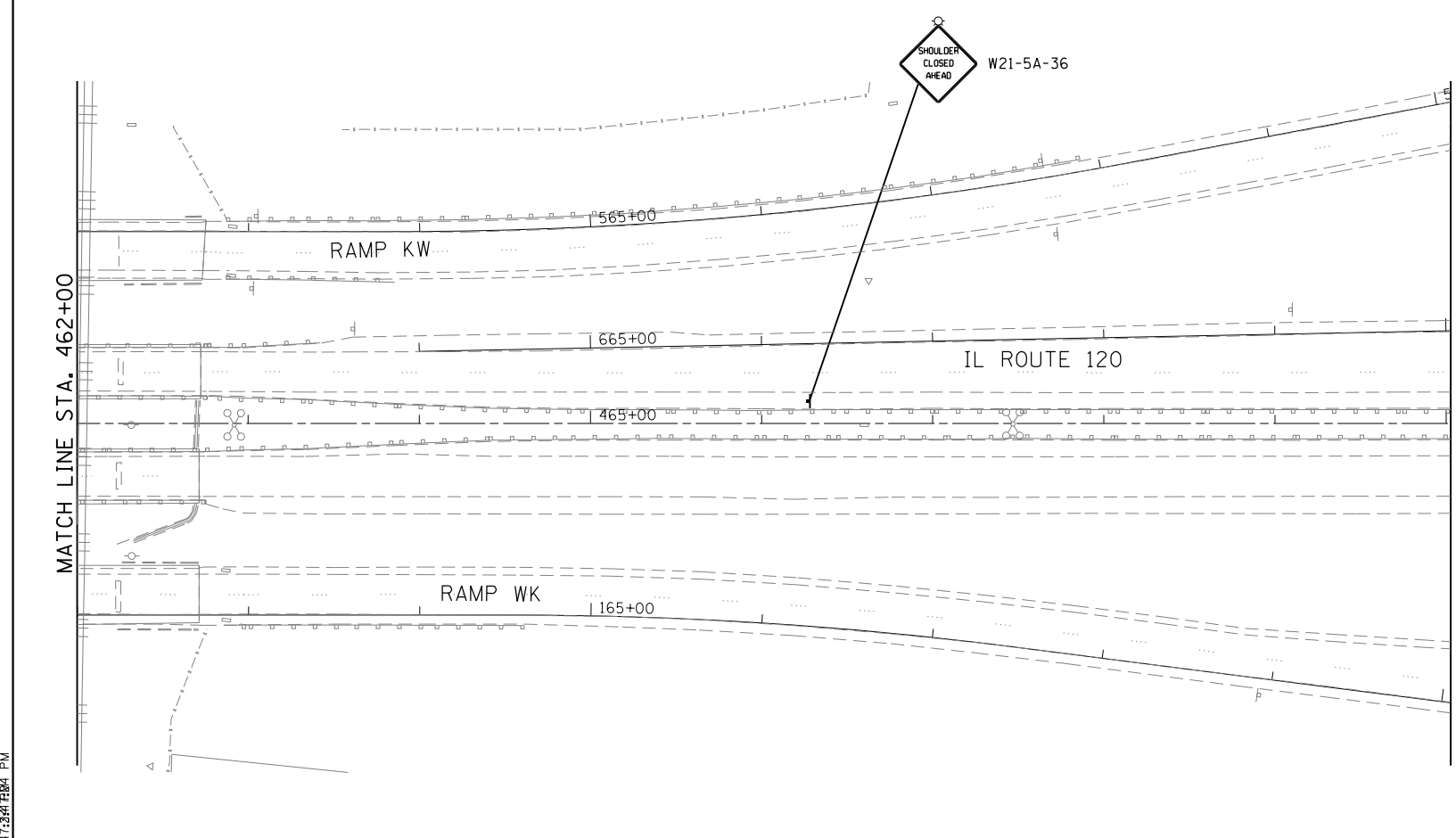
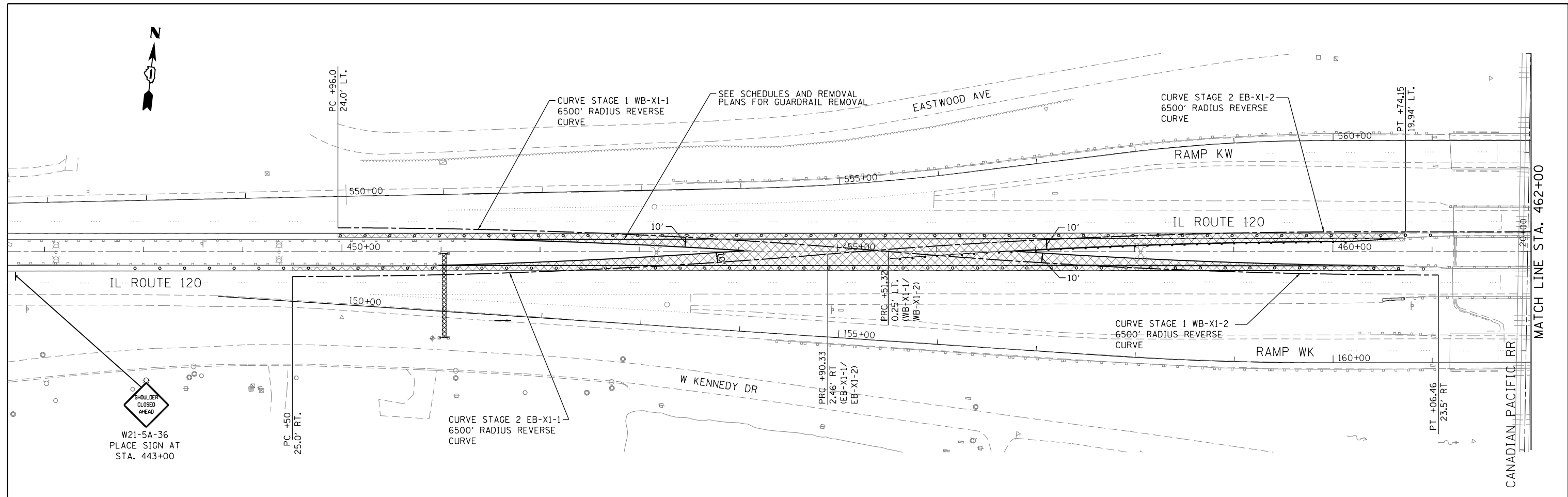
- ① EXISTING P.C.C. PAVEMENT, 10" & HMA SURFACE, 2 1/2"
- ② EXISTING HMA SHOULDER, 12 1/2" TO REMAIN (DURING CROSSOVER STAGES)
- ③ EXISTING AGGREGATE SHOULDER TO BE REMOVED
- ④ TEMPORARY PAVEMENT
- ⑤ SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- ⑥ AGGREGATE SHOULDER, TYPE B, 10"
- ⑦ EMBANKMENT (DEPTH EXTENDS TO BOTTOM OF UNSUITABLE SOIL REMOVED)
- ⑧ EMBANKMENT (DEPTH EXTENDS TO BOTTOM OF SHOULDER REMOVED)
- ⑨ EXISTING HMA SHOULDER, 6" TO BE REMOVED

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IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS			
CONSTRUCTION STAGING TYPICAL SECTIONS – CROSSOVERS			
SCALE:	SHEET 4	OF 18 SHEETS	STA. TO STA.

F.A.P. RTE. 333/342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 39
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL LEGEND

- TEMPORARY PAVEMENT
- DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHTS, 50' C-C ON TANGENTS, 20' C-C ON CURVES AND TAPERS AND 25' C-C ON RAMPS

NOTE:

USE STANDARD 701421 OR 701422 FOR TEMPORARY LANE CLOSURES WITHIN ALLOWABLE HOURS PER THE KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC SPECIAL PROVISION WHEN AND WHERE NECESSARY.
 SEE STAGE 2 PLAN AND CROSSOVER PLAN FOR ADDITIONAL TEMPORARY PAVEMENT DETAILS
 SEE GUARDRAIL AND REMOVAL PLANS FOR GUARDRAIL REMOVAL INFORMATION.



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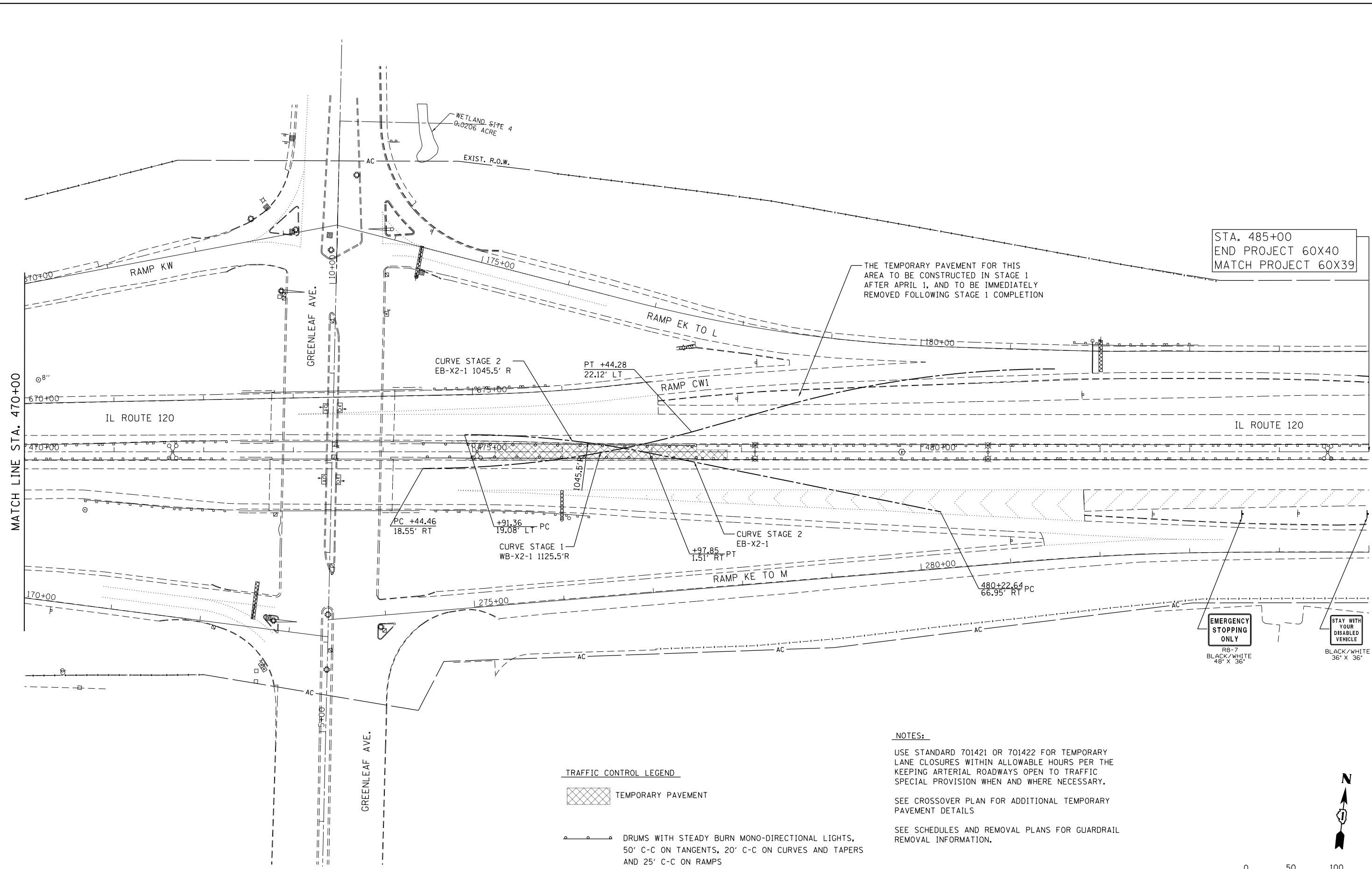
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 120 OVER CP RR, GREENLEAF STREET, AND RAMPS
CONSTRUCTION STAGING - PRE-STAGE**

SCALE: 1"=50' SHEET 5 OF 18 SHEETS STA. 447+00 TO STA. 470+00

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 40
*12(VB-1&2)&12R-1(HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

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

THE TEMPORARY PAVEMENT FOR THIS
 AREA TO BE CONSTRUCTED IN STAGE 1
 AFTER APRIL 1, AND TO BE IMMEDIATELY
 REMOVED FOLLOWING STAGE 1 COMPLETION

MATCH LINE STA. 470+00

TRAFFIC CONTROL LEGEND

- TEMPORARY PAVEMENT
- DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHTS,
50' C-C ON TANGENTS, 20' C-C ON CURVES AND TAPERS
AND 25' C-C ON RAMP

NOTES:

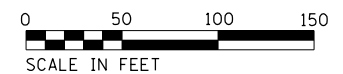
USE STANDARD 701421 OR 701422 FOR TEMPORARY
 LANE CLOSURES WITHIN ALLOWABLE HOURS PER THE
 KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC
 SPECIAL PROVISION WHEN AND WHERE NECESSARY.

SEE CROSSOVER PLAN FOR ADDITIONAL TEMPORARY
 PAVEMENT DETAILS

SEE SCHEDULES AND REMOVAL PLANS FOR GUARDRAIL
 REMOVAL INFORMATION.

EMERGENCY STOPPING ONLY
 RB-7
 BLACK/WHITE
 48" X 36"

STAY WITH YOUR DISABLED VEHICLE
 BLACK/WHITE
 36" X 36"



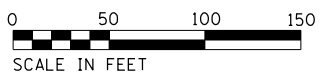
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**




**IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
 CONSTRUCTION STAGING - PRE-STAGE**

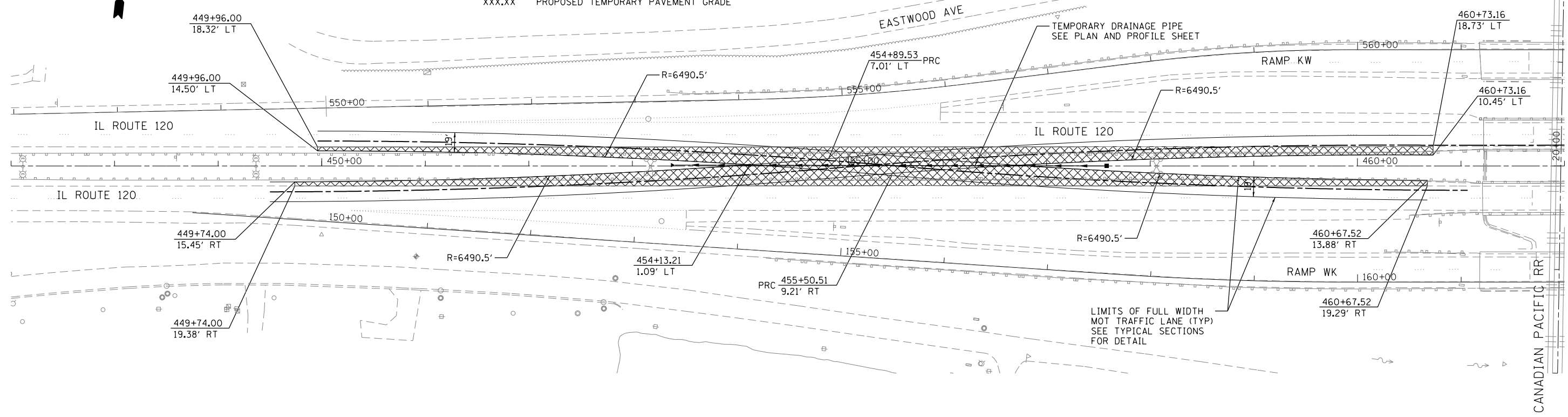
SCALE: 1"=50' SHEET 6 OF 18 SHEETS STA. 470+00 TO STA. 485+00

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 41
* 12(VB-1&2)&12R-1(B-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

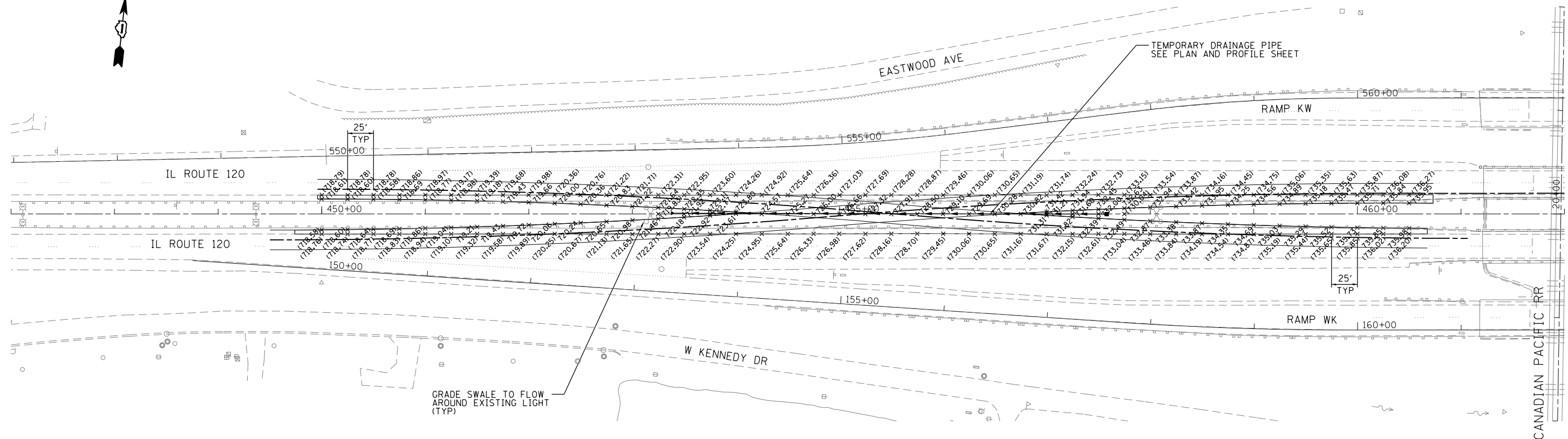


LEGEND

-  TEMPORARY PAVEMENT
-  (XXX.XX) EXISTING EDGE OF SHOULDER OR PAVEMENT GRADE
-  XXX.XX PROPOSED TEMPORARY PAVEMENT GRADE



NOTE:
CONTRACTOR TO ADJUST TEMPORARY
PAVEMENT GRADES AS NEEDED PER
FIELD CONDITIONS



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DATE 08/26/2015	REVISED -	


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

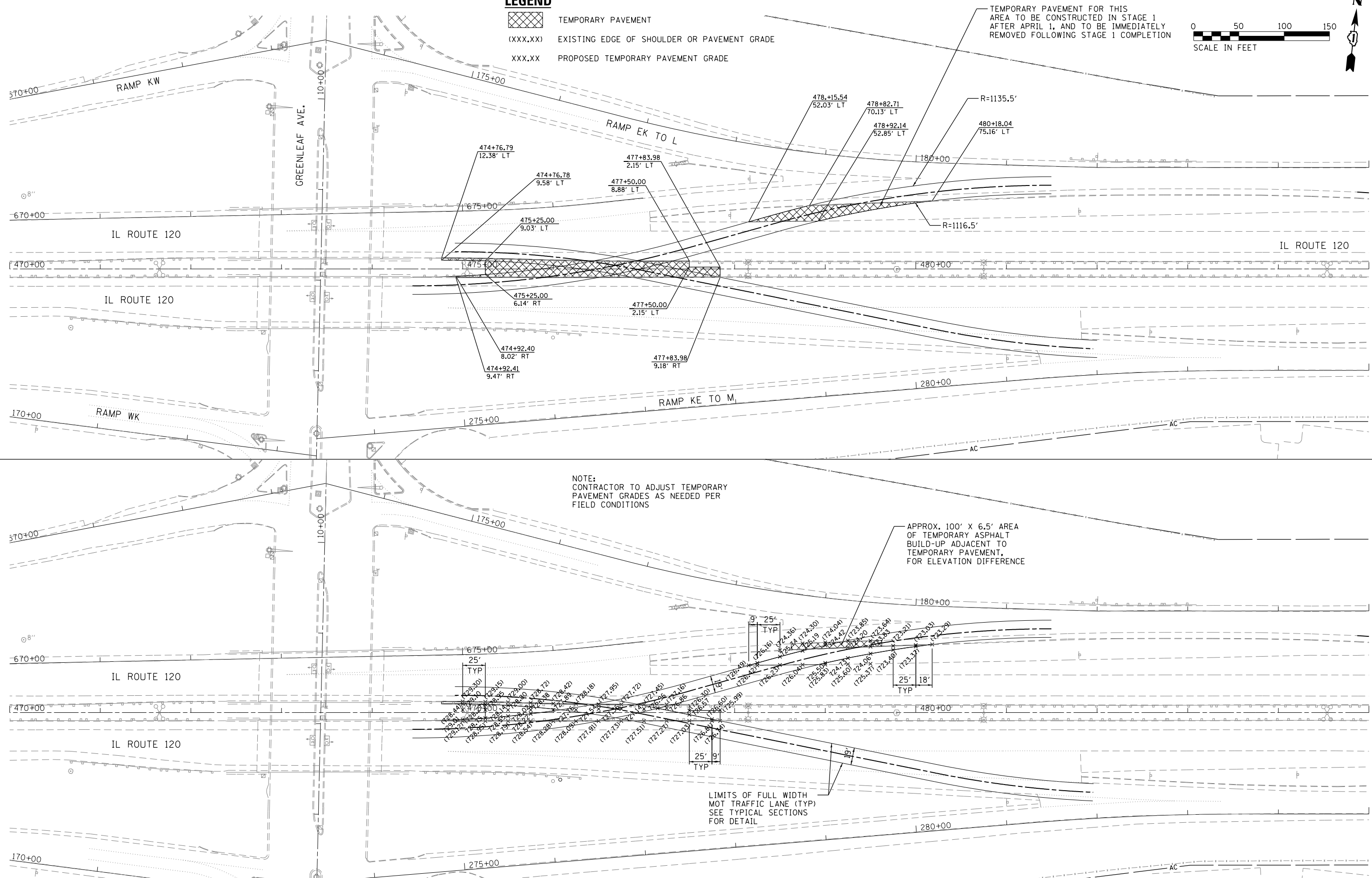
IL ROUTE 120 OVER CP RR, GREENLEAF STREET, AND RAMPS
CROSSOVER - 447+00 TO 462+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	LAKE	288	42
*12(VB-1&2)&12R-1(B-2)(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET 7 OF 18 SHEETS STA. 447+00 TO STA. 470+00

LEGEND

-  TEMPORARY PAVEMENT
- (XXX.XX) EXISTING EDGE OF SHOULDER OR PAVEMENT GRADE
- XXX.XX PROPOSED TEMPORARY PAVEMENT GRADE



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

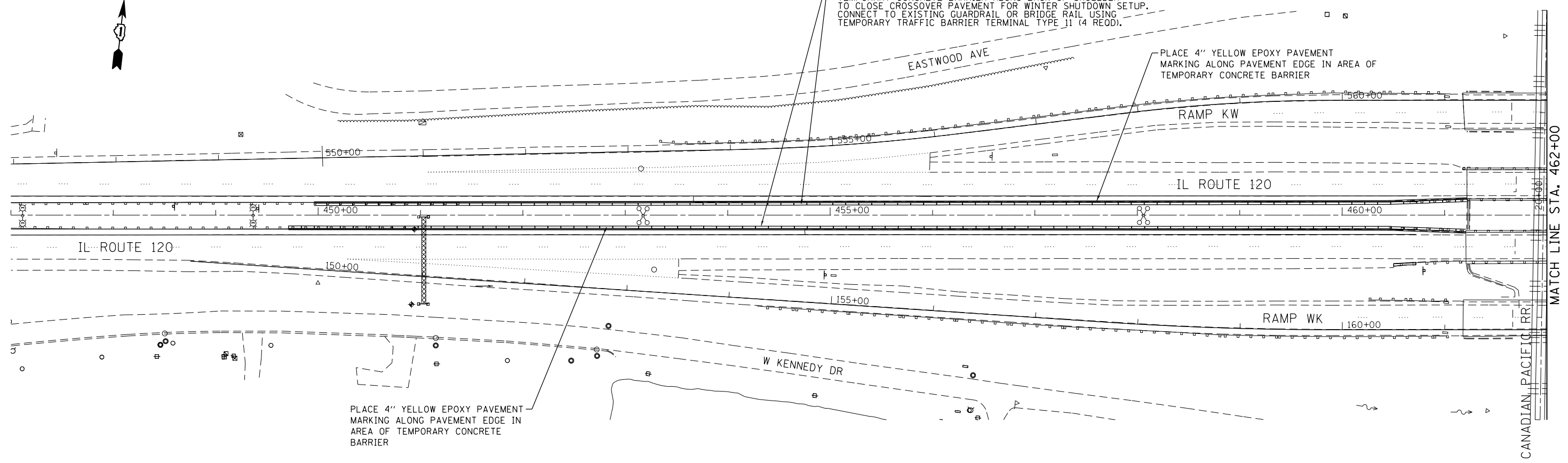
**IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
CROSSOVER - 470+00 TO 485+00**

SCALE: 1"=50' SHEET 8 OF 18 SHEETS STA. 470+00 TO STA. 485+00

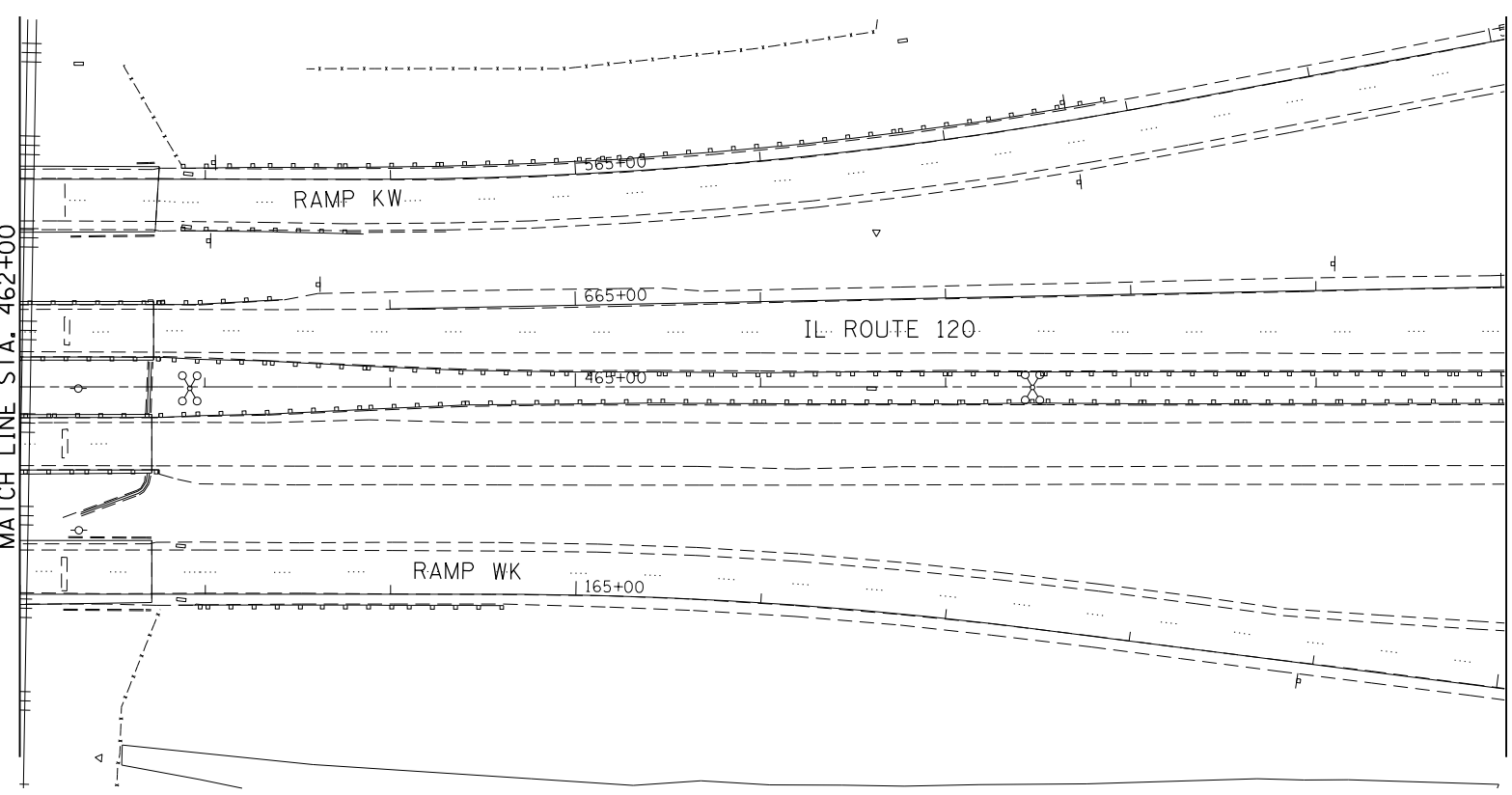
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* 12(VB-1&2)&12R-1(B-2)&12R-2(BR)&12-RS-2		CONTRACT NO. 60X40		
ILLINOIS FED. AID PROJECT				



STA. 449+71 TO STA. 461+21 EB
 STA. 449+96 TO STA. 461+21 WB
 FOLLOWING COMPLETION OF TEMPORARY PAVEMENT, PLACE
 TEMPORARY CONCRETE BARRIER ALONG BACK OF SHOULDER
 TO CLOSE CROSSOVER PAVEMENT FOR WINTER SHUTDOWN SETUP.
 CONNECT TO EXISTING GUARDRAIL OR BRIDGE RAIL USING
 TEMPORARY TRAFFIC BARRIER TERMINAL TYPE 11 (4 REOD).

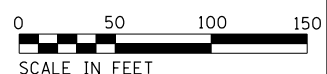


CANADIAN PACIFIC RR
 MATCH LINE STA. 462+00



MATCH LINE STA. 470+00

LEGEND
 TEMPORARY CONCRETE BARRIER



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GR@EF
 8501 N. Higgins Road, Suite 280
 Chicago, Illinois 60631
 (773) 399-0112

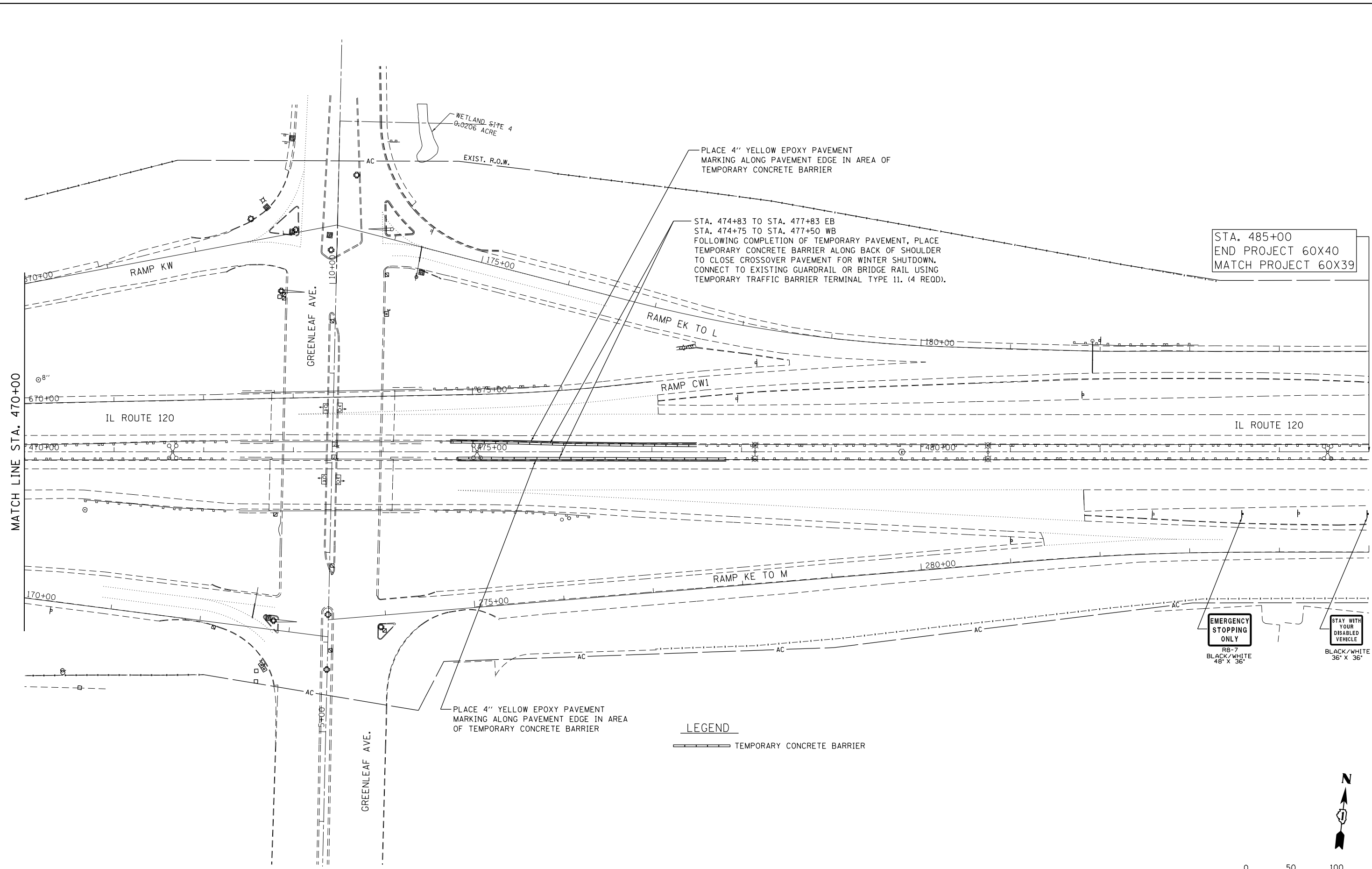
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 120 OVER CP RR, GREENLEAF STREET, AND RAMPS
 CONSTRUCTION STAGING - WINTER STAGING**
 SCALE: 1"=50' SHEET 9 OF 18 SHEETS STA. 447+00 TO STA. 470+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	*	LAKE	288	44
*12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

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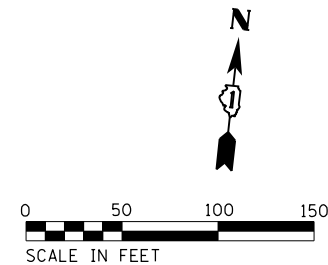
STA. 485+00
 END PROJECT 60X40
 MATCH PROJECT 60X39

EMERGENCY STOPPING ONLY
 RB-7
 BLACK/WHITE
 48" X 36"

STAY WITH YOUR DISABLED VEHICLE
 BLACK/WHITE
 36" X 36"

LEGEND

 TEMPORARY CONCRETE BARRIER



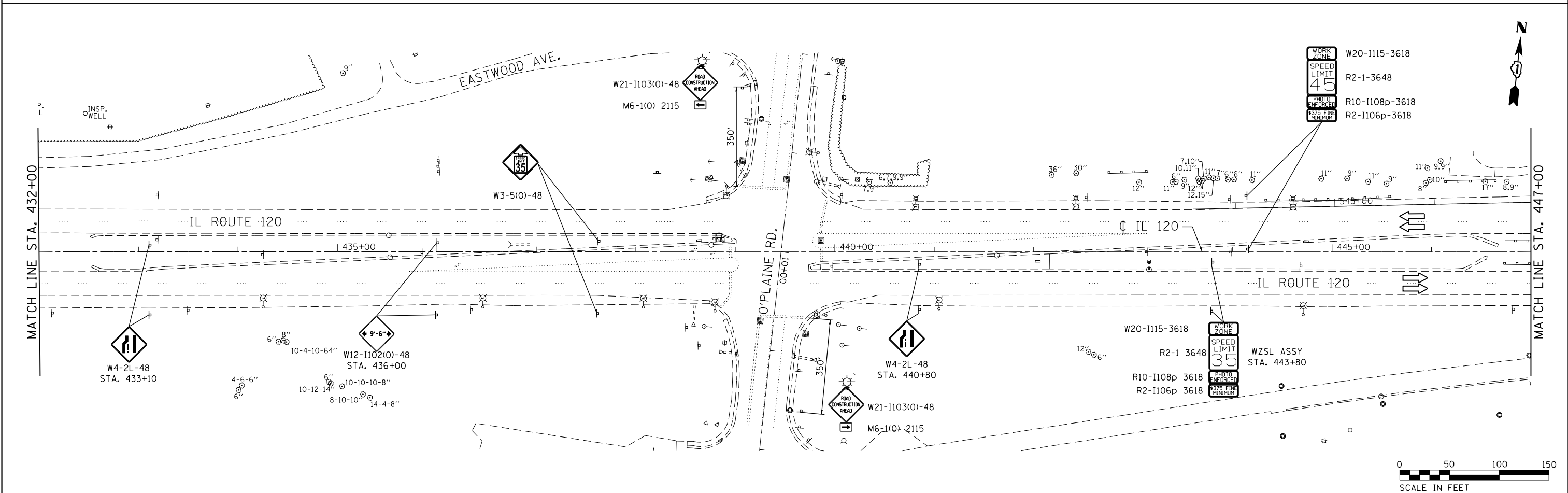
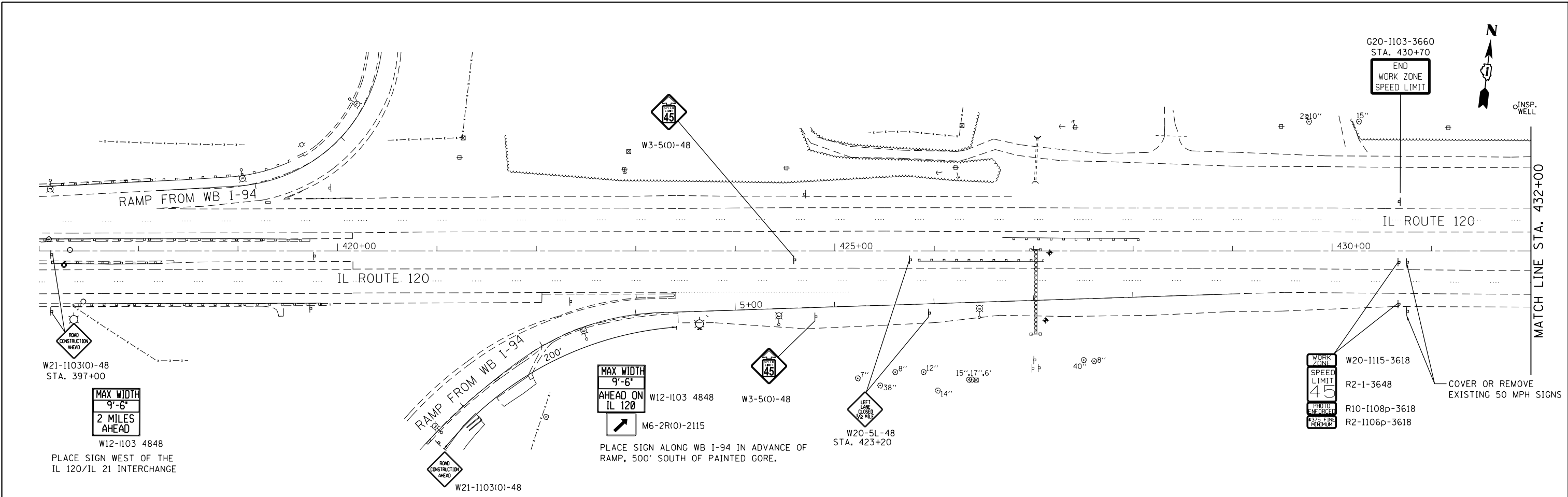
GR&E 8501 W. Higgins Road Suite 280
 Chicago, Illinois 60631
 (773) 399-0112

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
CONSTRUCTION STAGING - WINTER STAGING
 SCALE: 1"=50' SHEET 10 OF 18 SHEETS STA. 470+00 TO STA. 485+00

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 45
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



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 8501 N. Higgins Road, Suite 280
 Chicago, Illinois 60631
 (773) 399-0112

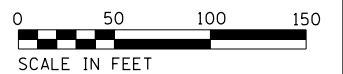
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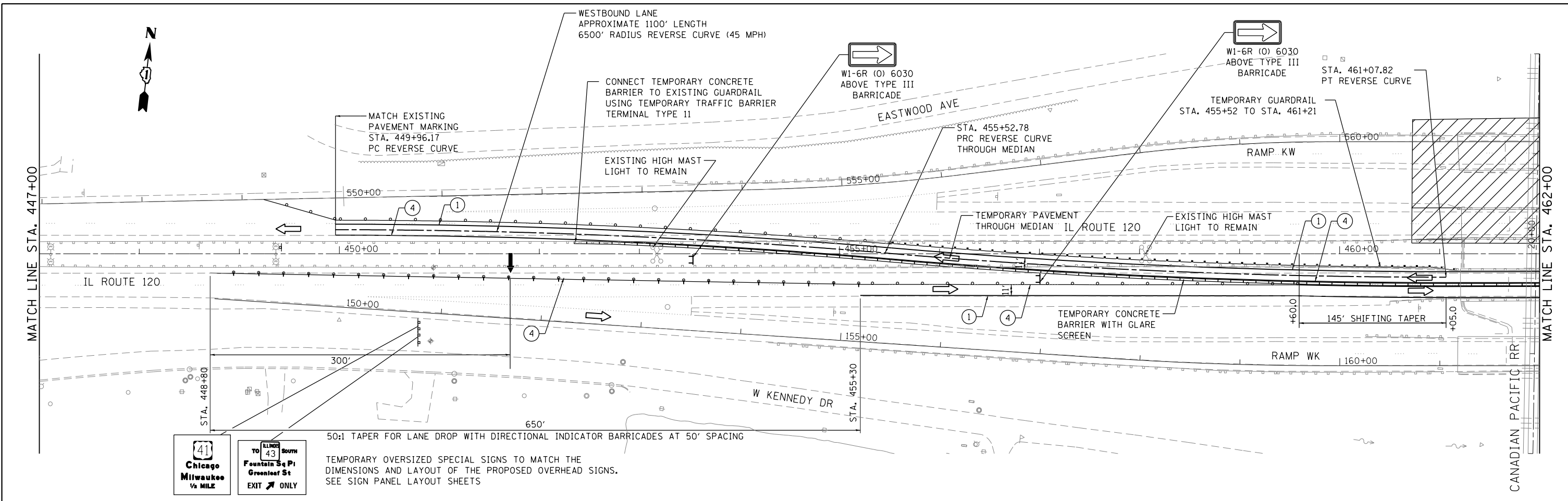
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET, AND RAMPS
CONSTRUCTION STAGING - STAGE 1

SCALE: 1"=50' SHEET 11 OF 18 SHEETS STA. TO STA.

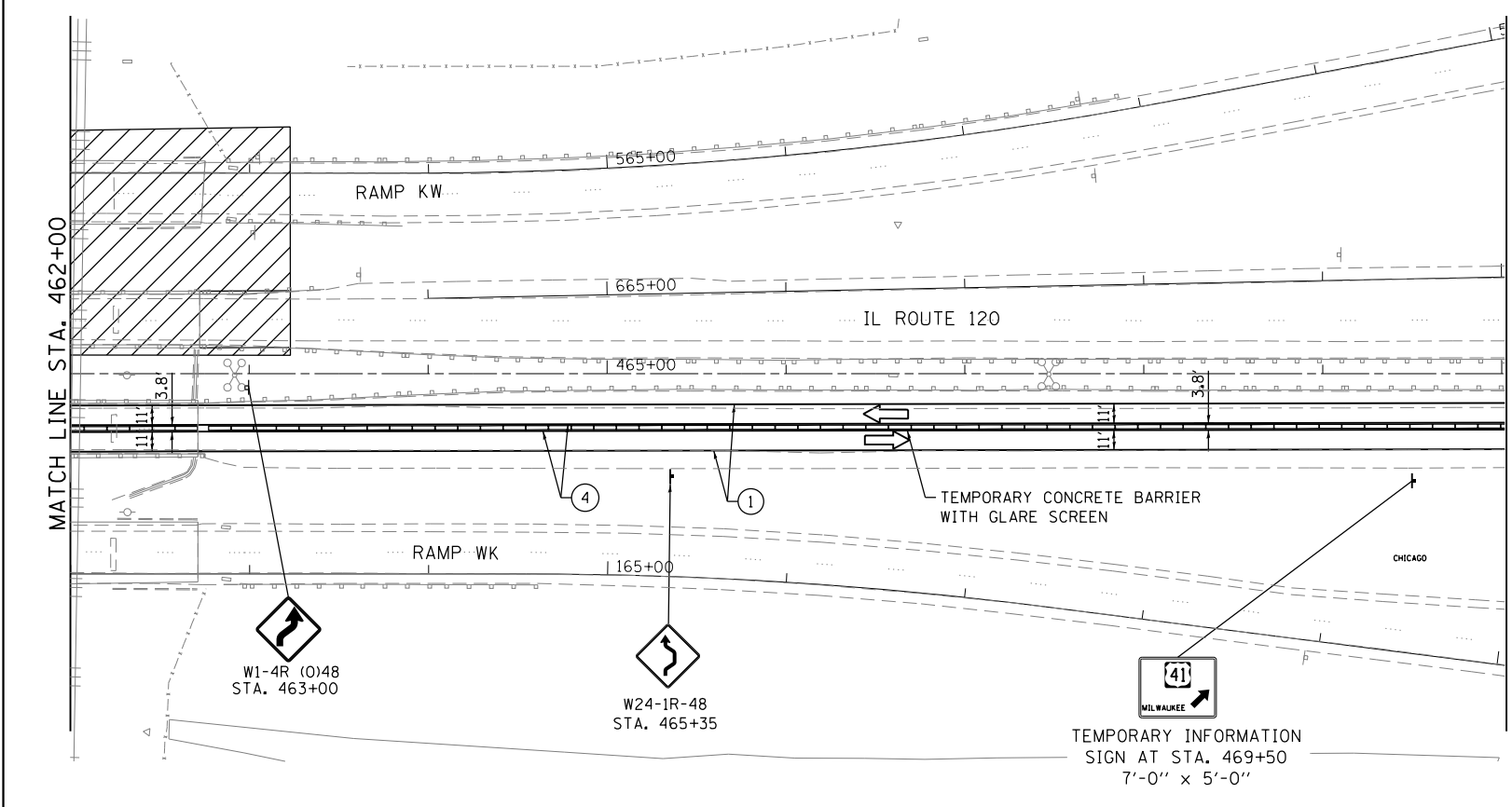
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	LAKE	288	46
*12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				





50:1 TAPER FOR LANE DROP WITH DIRECTIONAL INDICATOR BARRICADES AT 50' SPACING

TEMPORARY OVERSIZED SPECIAL SIGNS TO MATCH THE DIMENSIONS AND LAYOUT OF THE PROPOSED OVERHEAD SIGNS. SEE SIGN PANEL LAYOUT SHEETS

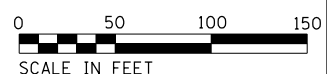


TRAFFIC CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- ARROW BOARD
- DIRECTION OF TRAFFIC
- TRAFFIC BARRICADE TYPE III
- DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHTS, 50' C-C ON TANGENTS, 20' C-C ON CURVES AND TAPERS AND 25' C-C ON RAMPS
- TEMPORARY CONCRETE BARRIER

PAVEMENT MARKING LEGEND

- ① 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (SOLID)
- ② 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (30' SKIP-10' DASH)
- ③ 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (6' SKIP-2' DASH)
- ④ 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, YELLOW (SOLID)
- ⑤ 6" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (SOLID)



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GR@EF
8501 N. Higgins Road, Suite 280
Chicago, Illinois 60631
(773) 399-0112

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 120 OVER CP RR, GREENLEAF STREET, AND RAMPS
CONSTRUCTION STAGING - STAGE 1**

SCALE: 1"=50' SHEET 12 OF 18 SHEETS STA. 447+00 TO STA. 470+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	LAKE	288	47
*12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

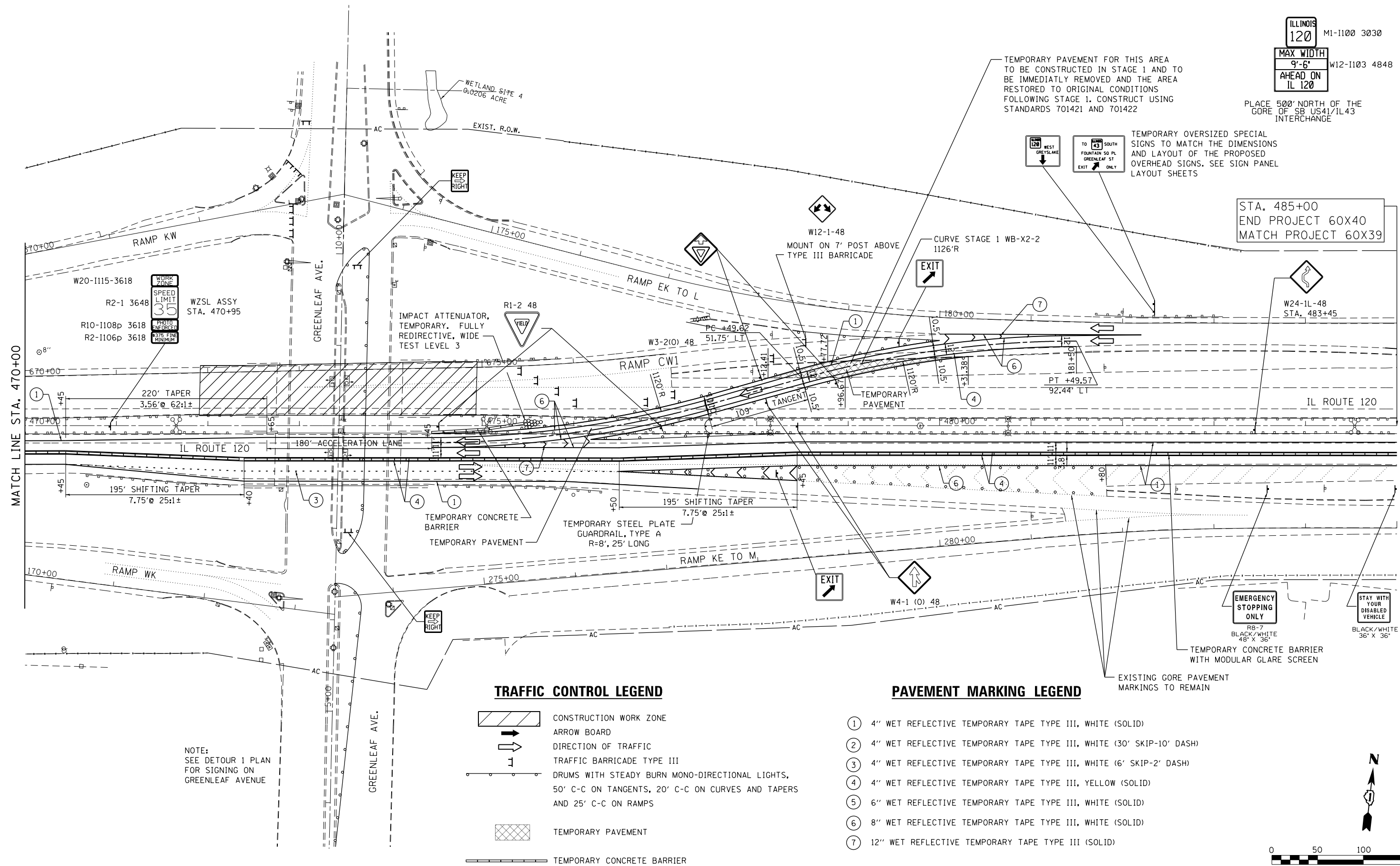
ILLINOIS 120 MI-1100 3030
 MAX WIDTH 9'-6" W12-1103 4848
 AHEAD ON IL 120

PLACE 500' NORTH OF THE GORE OF SB US41/IL43 INTERCHANGE

TEMPORARY PAVEMENT FOR THIS AREA TO BE CONSTRUCTED IN STAGE 1 AND TO BE IMMEDIATELY REMOVED AND THE AREA RESTORED TO ORIGINAL CONDITIONS FOLLOWING STAGE 1. CONSTRUCT USING STANDARDS 701421 AND 701422

TEMPORARY OVERSIZED SPECIAL SIGNS TO MATCH THE DIMENSIONS AND LAYOUT OF THE PROPOSED OVERHEAD SIGNS. SEE SIGN PANEL LAYOUT SHEETS

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



WORK ZONE
 SPEED LIMIT 35
 PHOTO ENFORCED
 375 FINE MINIMUM

W20-1115-3618
 R2-1 3648
 R10-1108p 3618
 R2-1106p 3618

WZSL ASSY
 STA. 470+95

IMPACT ATTENUATOR, TEMPORARY, FULLY REDIRECTIVE, WIDE TEST LEVEL 3

W12-1-48
 MOUNT ON 7' POST ABOVE TYPE III BARRICADE

CURVE STAGE 1 WB-X2-2 1126'R

W24-1L-48
 STA. 483+45

220' TAPER
 3.56 @ 62:1±

195' SHIFTING TAPER
 7.75 @ 25:1±

195' SHIFTING TAPER
 7.75 @ 25:1±

TEMPORARY CONCRETE BARRIER
 TEMPORARY PAVEMENT

TEMPORARY STEEL PLATE GUARDRAIL, TYPE A R=8', 25' LONG

EMERGENCY STOPPING ONLY
 R8-7 BLACK/WHITE 48" X 36"

STAY WITH YOUR DISABLED VEHICLE
 BLACK/WHITE 36" X 36"

EXISTING GORE PAVEMENT MARKINGS TO REMAIN

TRAFFIC CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- ARROW BOARD
- DIRECTION OF TRAFFIC
- TRAFFIC BARRICADE TYPE III
- DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHTS, 50' C-C ON TANGENTS, 20' C-C ON CURVES AND TAPERS AND 25' C-C ON RAMP
- TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER

PAVEMENT MARKING LEGEND

- ① 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (SOLID)
- ② 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (30' SKIP-10' DASH)
- ③ 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (6' SKIP-2' DASH)
- ④ 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, YELLOW (SOLID)
- ⑤ 6" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (SOLID)
- ⑥ 8" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (SOLID)
- ⑦ 12" WET REFLECTIVE TEMPORARY TAPE TYPE III (SOLID)

NOTE:
 SEE DETOUR 1 PLAN FOR SIGNING ON GREENLEAF AVENUE

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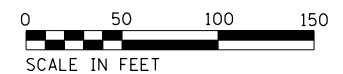
GR&E 8501 W. Higgins Road Suite 280
 Chicago, Illinois 60631
 (773) 399-0112

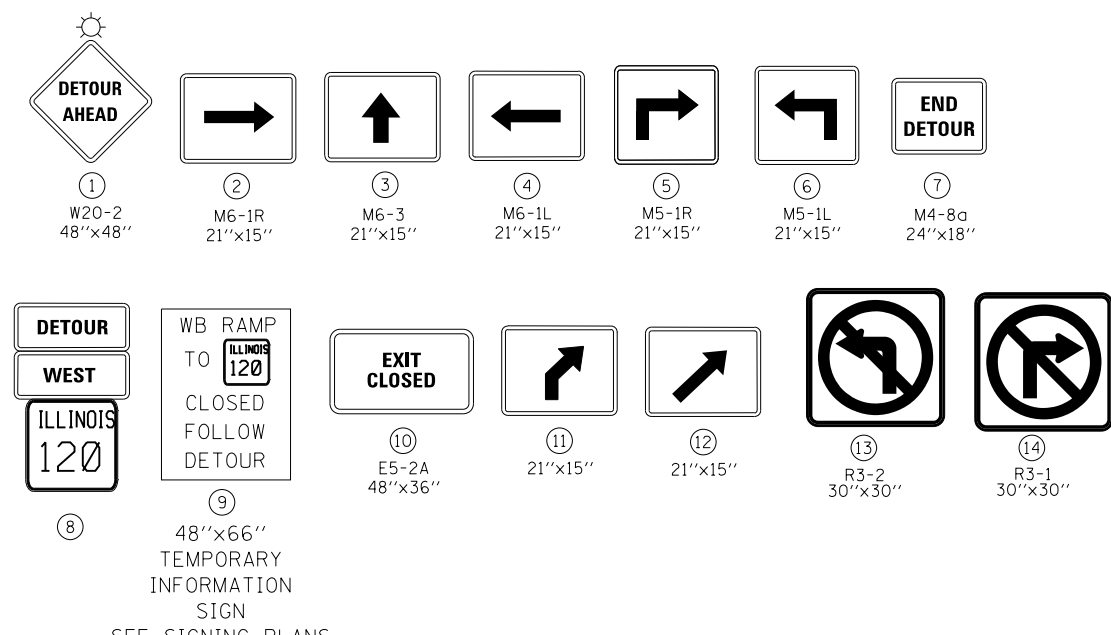
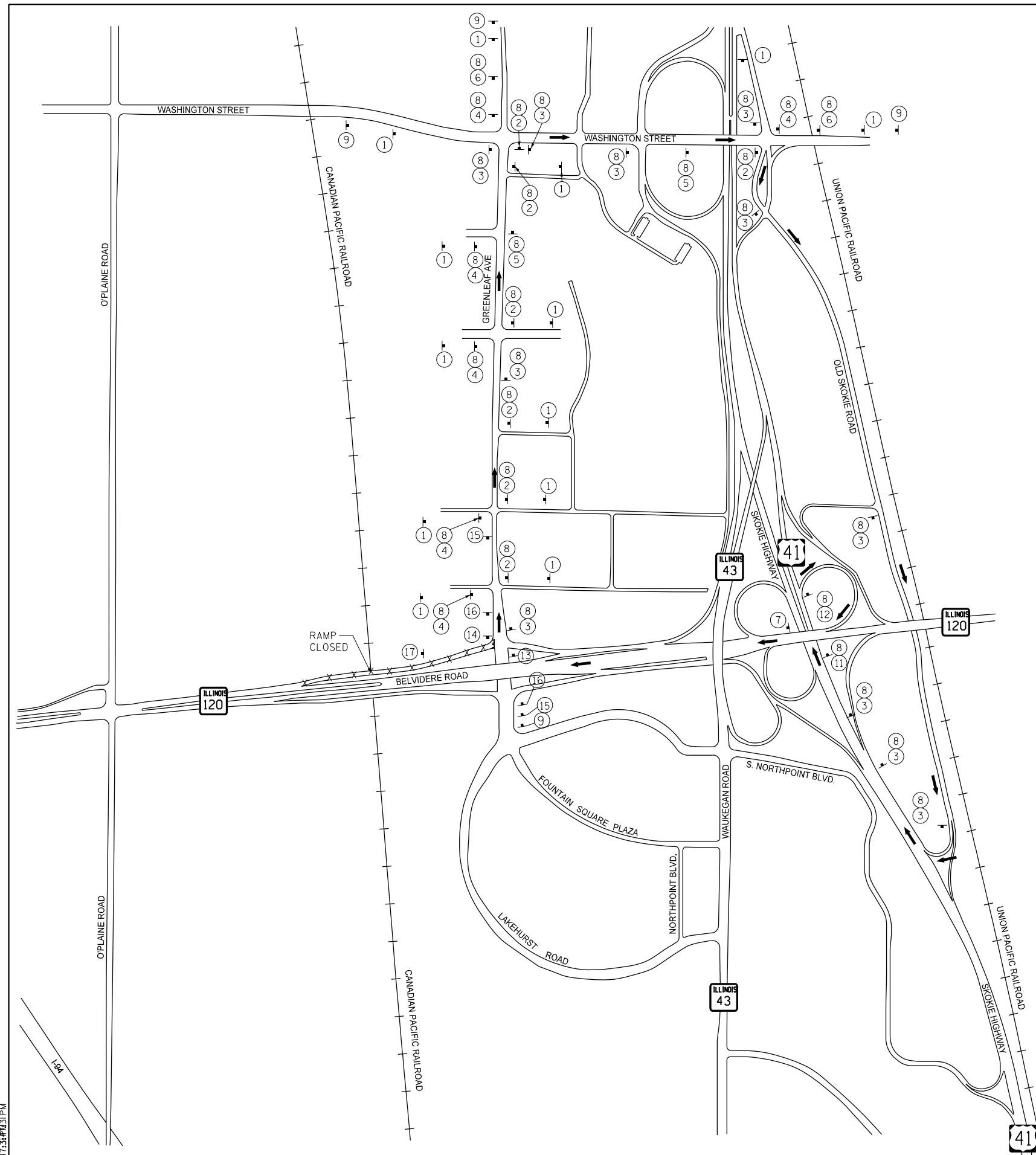
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

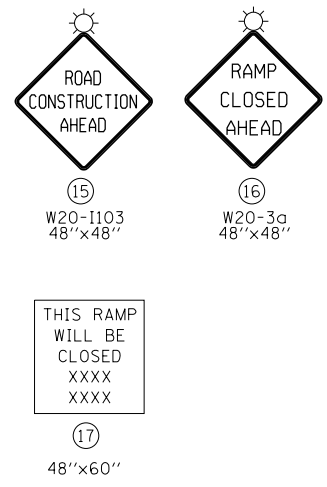
IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
 CONSTRUCTION STAGING - STAGE 1
 SCALE: 1"=50' SHEET 13 OF 18 SHEETS STA. 470+00 TO STA. 485+00

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 48
* 12(VB-1&2)&12R-1(HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				





SEE SIGNING PLANS FOR SIGN DETAIL (4 REQ'D)
(6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND)



DETOUR STAGING NOTES

1. ALL SIGNING MUST BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE IDOT BUREAU OF DESIGN AND ENVIRONMENT HIGHWAY STANDARDS AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
2. THE CONTRACTOR MUST BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS AND OTHER DEVICES INSTALLED BY THE CONTRACTOR ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THIS CONSTRUCTION IS IN EFFECT.
3. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE CONSTRUCTION IS IN EFFECT MUST BE COMPLETELY COVERED OR REMOVED BY THE CONTRACTOR, PER ARTICLE 701.04.
4. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS MUST BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
5. AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED MUST MEET THE REQUIREMENTS FOR TYPE A - LOW INTENSITY FLASHING LIGHTS IN ARTICLE 702. 04 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION MUST BE USED.
6. THE CONTRACTOR MUST MAINTAIN ACCESS TO ALL PRIVATE AND COMMERCIAL DRIVEWAYS DURING RECONSTRUCTION.
7. PROPOSED DETOUR SIGNING MUST BE COVERED OR REMOVED WHEN NOT REQUIRED DURING A SPECIFIC STAGE OF CONSTRUCTION.
8. THE CONTRACTOR MUST CONDUCT THE WORK IN SUCH A MANNER THAT EMERGENCY VEHICLES WILL HAVE ACCESS TO THE AREA AT ALL TIMES.
9. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM 72 HOURS BEFORE BEGINNING WORK.
10. SEE MAINTENANCE OF TRAFFIC PLANS FOR ADDITIONAL SIGNING.
11. REFER TO DISTRICT 1 STANDARD TC-08 DETAILS FOR RAMP CLOSURES.
12. REFER TO DISTRICT 1 STANDARD TC 21 FOR TYPICAL SIGN LAYOUT AND SPACING.

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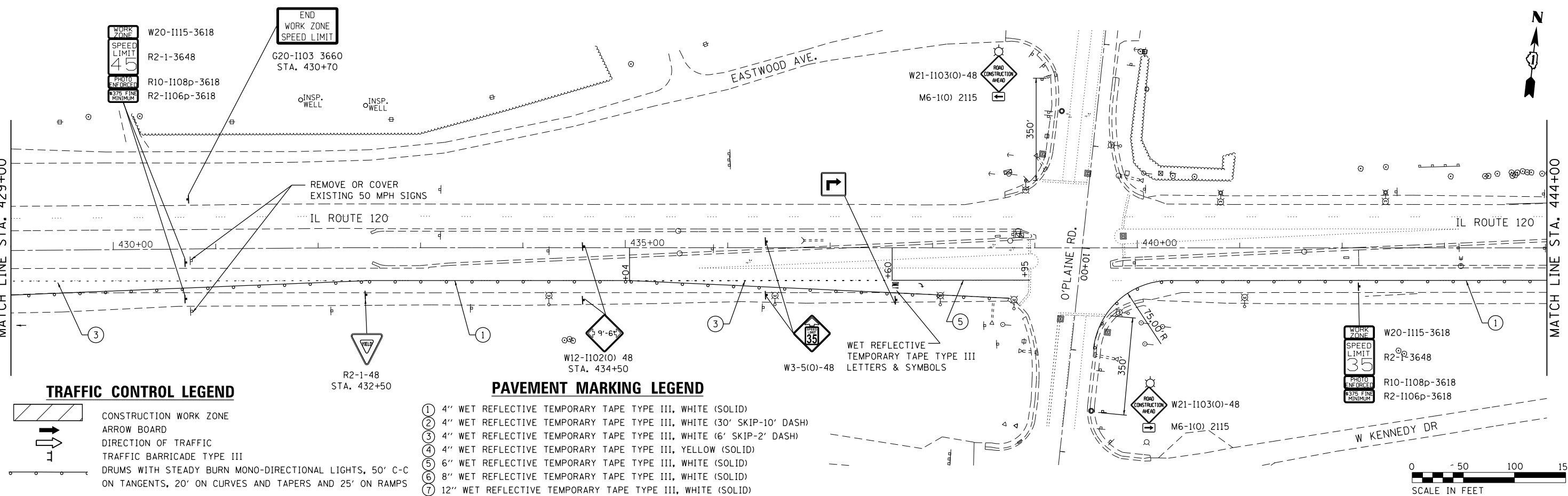
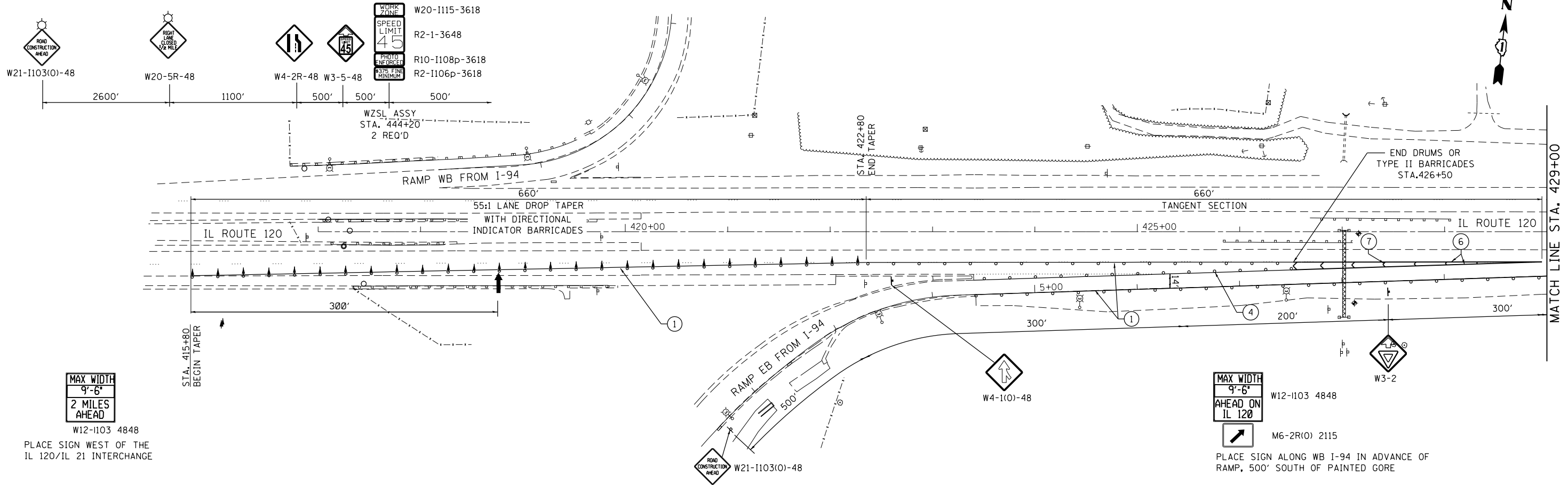
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
DETOUR PLAN - STAGE 1**

SCALE: SHEET 14 OF 18 SHEETS STA. TO STA.

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 49
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



- TRAFFIC CONTROL LEGEND**
- CONSTRUCTION WORK ZONE
 - ARROW BOARD
 - DIRECTION OF TRAFFIC
 - TRAFFIC BARRICADE TYPE III
 - DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHTS, 50' C-C ON TANGENTS, 20' ON CURVES AND TAPERS AND 25' ON RAMP

- PAVEMENT MARKING LEGEND**
- ① 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (SOLID)
 - ② 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (30' SKIP-10' DASH)
 - ③ 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (6' SKIP-2' DASH)
 - ④ 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, YELLOW (SOLID)
 - ⑤ 6" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (SOLID)
 - ⑥ 8" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (SOLID)
 - ⑦ 12" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (SOLID)

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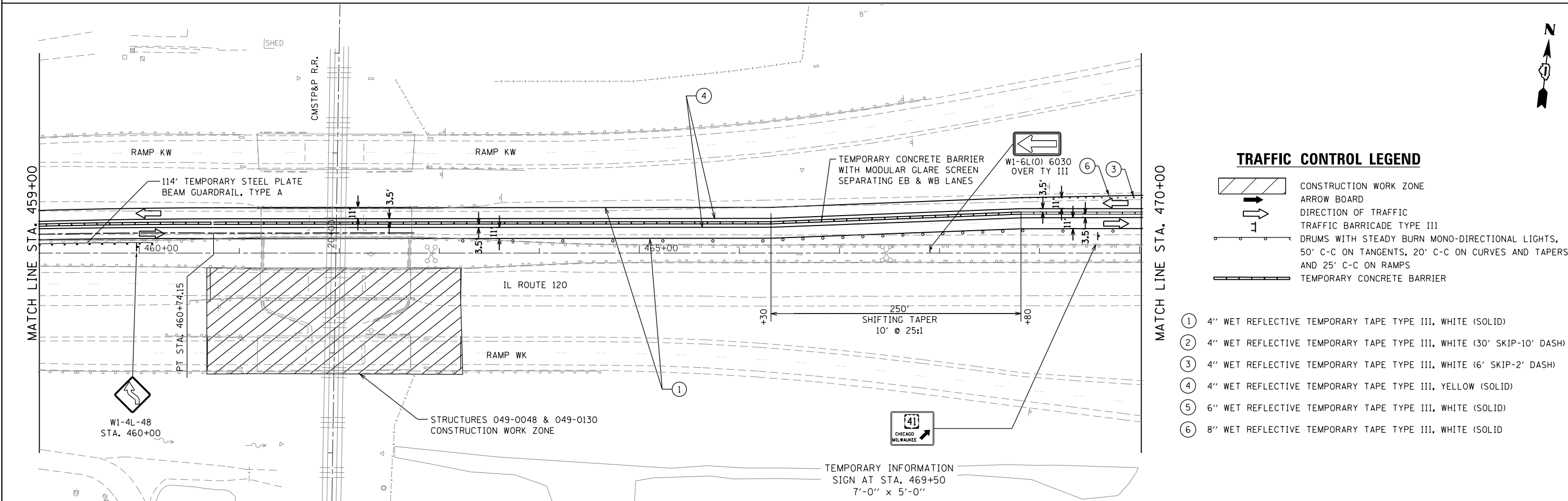
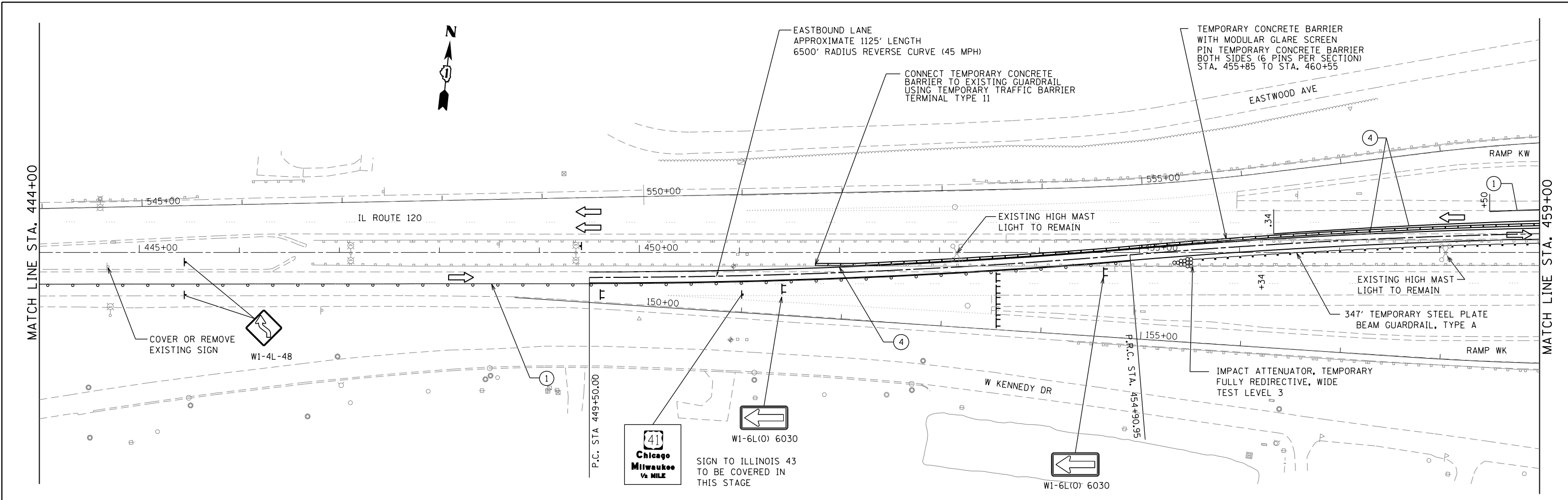
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 120 OVER CP RR, GREENLEAF STREET, AND RAMPS
CONSTRUCTION STAGING - STAGE 2**

SCALE: 1"=50' SHEET 15 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	LAKE	288	50
*12(VB-1&2)&12R-1(B-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



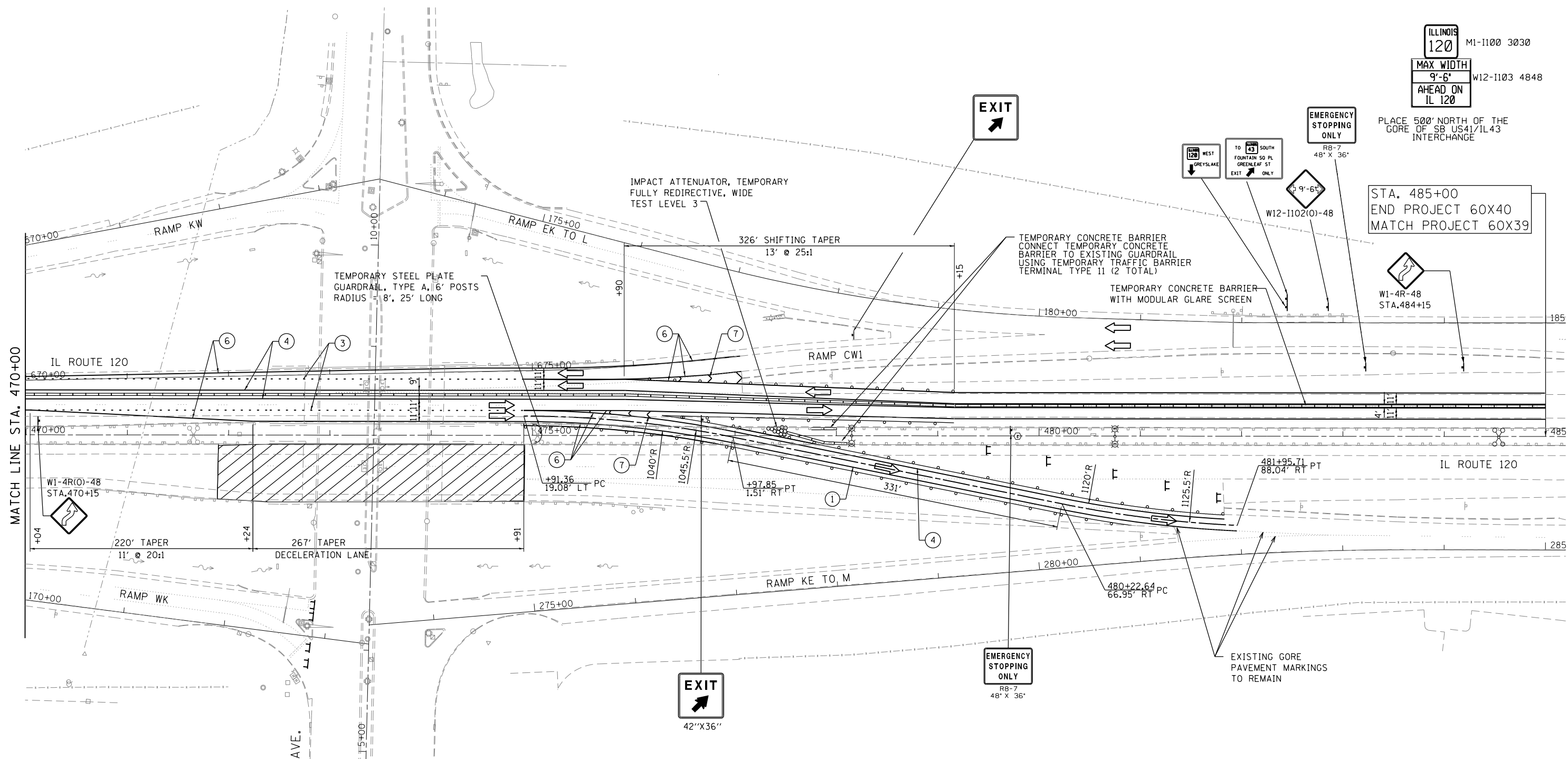
- TRAFFIC CONTROL LEGEND**
- CONSTRUCTION WORK ZONE
 - ARROW BOARD
 - DIRECTION OF TRAFFIC
 - TRAFFIC BARRICADE TYPE III
 - DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHTS, 50' C-C ON TANGENTS, 20' C-C ON CURVES AND TAPERS AND 25' C-C ON RAMPS
 - TEMPORARY CONCRETE BARRIER
- ① 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (SOLID)
 - ② 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (30' SKIP-10' DASH)
 - ③ 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (6' SKIP-2' DASH)
 - ④ 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, YELLOW (SOLID)
 - ⑤ 6" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (SOLID)
 - ⑥ 8" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (SOLID)

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ILLINOIS 120 MI-1100 3030
 MAX WIDTH 9'-6" W12-1103 4848
 AHEAD ON IL 120

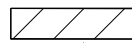
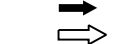
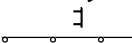


PLACE 500' NORTH OF THE GORE OF SB US41/IL43 INTERCHANGE

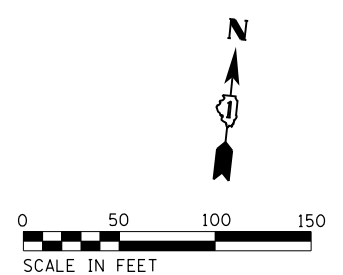
STA. 485+00
 END PROJECT 60X40
 MATCH PROJECT 60X39



NOTE:
 SEE DETOUR 2 FOR
 DETOUR SIGNING ON
 GREENLEAF AVENUE

TRAFFIC CONTROL LEGEND

-  CONSTRUCTION WORK ZONE
-  ARROW BOARD
-  DIRECTION OF TRAFFIC
-  TRAFFIC BARRICADE TYPE III
-  DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHTS, 50' C-C ON TANGENTS, 20' C-C ON CURVES AND TAPERS AND 25' C-C ON RAMPS
-  TEMPORARY CONCRETE BARRIER
- ① 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (SOLID)
- ② 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (30' SKIP-10' DASH)
- ③ 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (6' SKIP-2' DASH)
- ④ 4" WET REFLECTIVE TEMPORARY TAPE TYPE III, YELLOW (SOLID)
- ⑤ 6" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (SOLID)
- ⑥ 8" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (SOLID)
- ⑦ 12" WET REFLECTIVE TEMPORARY TAPE TYPE III, WHITE (SOLID)



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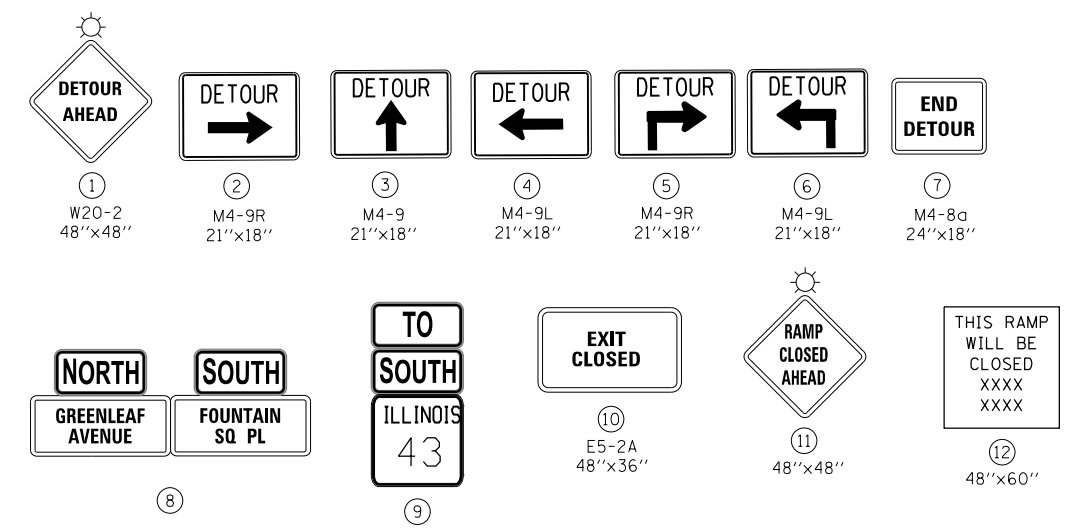
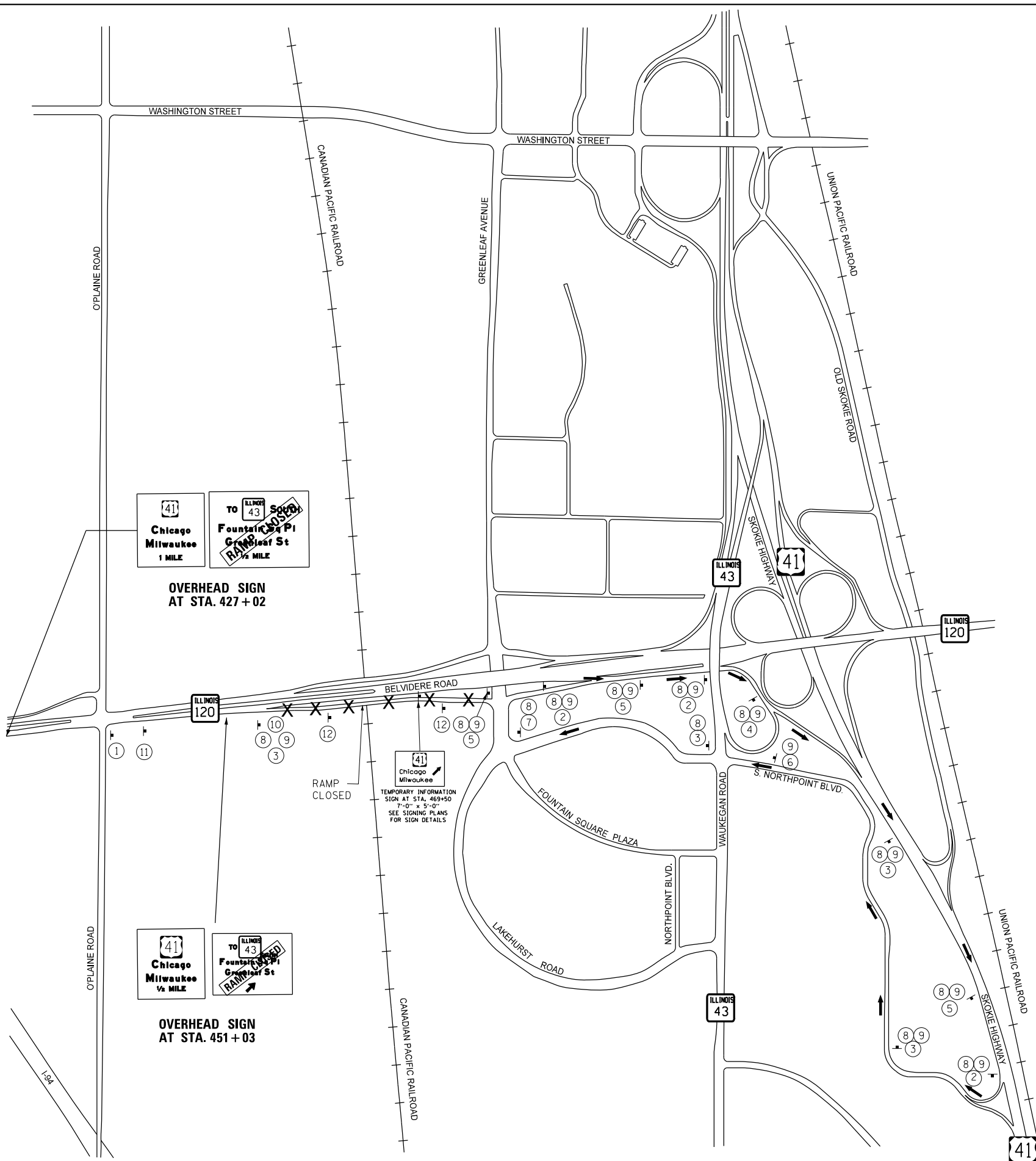
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
 CONSTRUCTION STAGING - STAGE 2**

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 52
* 12(VB-1&2)&12R-1(HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 17 OF 18 SHEETS STA. 470+00 TO STA. 485+00



DETOUR GENERAL NOTES

1. ALL SIGNING MUST BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE IDOT BUREAU OF DESIGN AND ENVIRONMENT HIGHWAY STANDARDS AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
2. THE CONTRACTOR MUST BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS AND OTHER DEVICES INSTALLED BY THE CONTRACTOR ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THIS CONSTRUCTION IS IN EFFECT.
3. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE CONSTRUCTION IS IN EFFECT MUST BE COMPLETELY COVERED OR REMOVED BY THE CONTRACTOR, PER ARTICLE 701.04.
4. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS MUST BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
5. AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED MUST MEET THE REQUIREMENTS FOR TYPE A - LOW INTENSITY FLASHING LIGHTS IN ARTICLE 702.04 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION MUST BE USED.
6. THE CONTRACTOR MUST MAINTAIN ACCESS TO ALL PRIVATE AND COMMERCIAL DRIVEWAYS DURING RECONSTRUCTION.
7. PROPOSED DETOUR SIGNING MUST BE COVERED OR REMOVED WHEN NOT REQUIRED DURING A SPECIFIC STAGE OF CONSTRUCTION.
8. THE CONTRACTOR MUST CONDUCT THE WORK IN SUCH A MANNER THAT EMERGENCY VEHICLES WILL HAVE ACCESS TO THE AREA AT ALL TIMES.
9. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM 72 HOURS BEFORE BEGINNING WORK.
10. SEE MAINTENANCE OF TRAFFIC PLANS FOR ADDITIONAL SIGNING.
11. THE CONTRACTOR SHALL FURNISH ANY ADDITIONAL SIGNS AND TRAFFIC CONTROL DEVICES AS REQUIRED BY THE ENGINEER. THE COST SHALL BE INCLUDED IN THE COST FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".
12. REFER TO DISTRICT 1 STANDARD TC-08 DETAILS FOR RAMP CLOSURES.
13. REFER TO DISTRICT 1 STANDARD TC 21 FOR TYPICAL SIGN LAYOUT AND SPACING.

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







**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

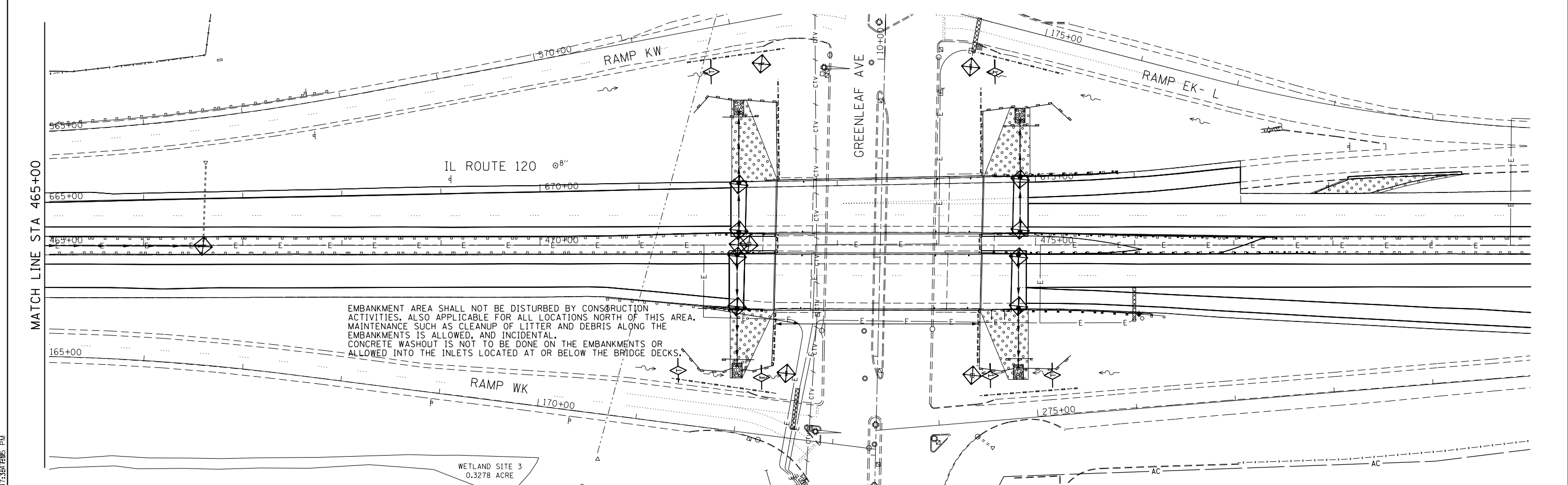
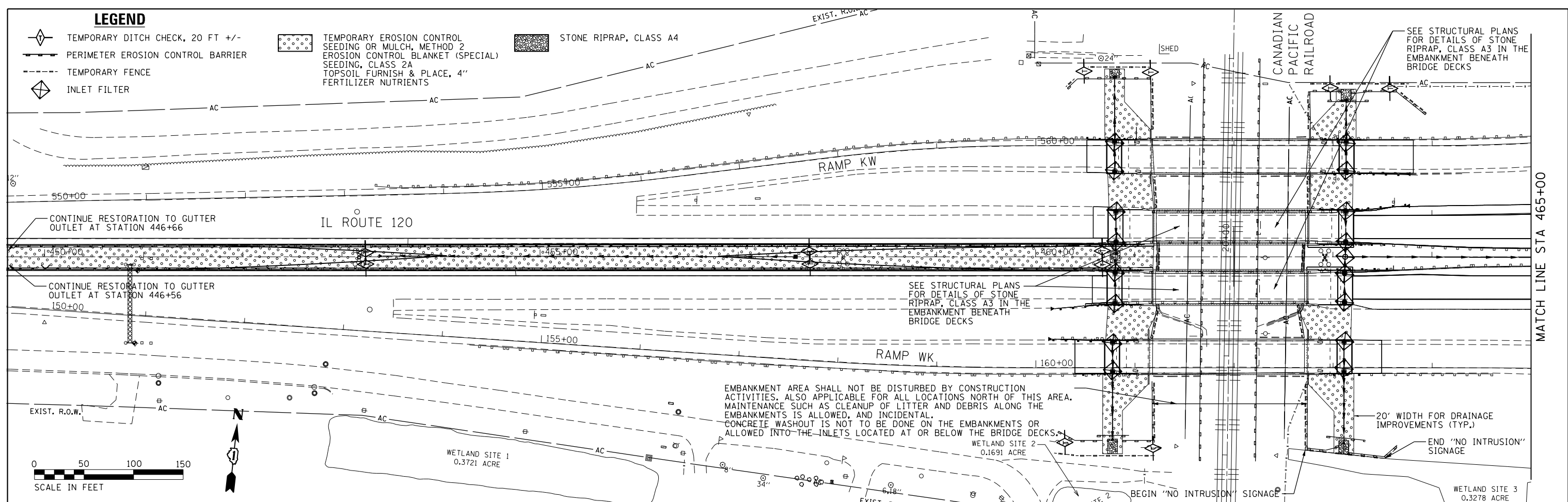
**IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
DETOUR PLAN - STAGE 2**

SCALE: SHEET 18 OF 18 SHEETS STA. TO STA.

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 53
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2		CONTRACT NO. 60X40		
ILLINOIS FED. AID PROJECT				

LEGEND

-  TEMPORARY DITCH CHECK, 20 FT +/-
-  PERIMETER EROSION CONTROL BARRIER
-  TEMPORARY FENCE
-  INLET FILTER
-  TEMPORARY EROSION CONTROL SEEDING OR MULCH, METHOD 2
-  EROSION CONTROL BLANKET (SPECIAL) SEEDING, CLASS 2A
-  TOPSOIL FURNISH & PLACE, 4" FERTILIZER NUTRIENTS
-  STONE RIPRAP, CLASS A4



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 120 OVER CP RR, GREENLEAF STREET, AND RAMPS
 EROSION & SEDIMENT CONTROL AND LANDSCAPING PLAN**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 450+00 TO STA. 480+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	LAKE	288	54
*12(VB-1&2)&12R-1(B-2)(BR)&12-RS-2		CONTRACT NO. 60X40		
ILLINOIS FED. AID PROJECT				

DRAINAGE NOTES

- THE COST FOR CONNECTING PROPOSED STORM SEWER TO EXISTING STORM SEWER OR TO EXISTING DRAINAGE STRUCTURES WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF THE VARIOUS STORM SEWER ITEMS.
- STATION/OFFSETS FOR DRAINAGE STRUCTURES WITHIN THE BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) ARE REFERENCED TO THE CENTER OF THE FRAME AND GRATE. STATION/OFFSET FOR END SECTIONS ARE REFERENCED TO THE OUTLET INVERT. STATION/OFFSET FOR ALL OTHER STRUCTURES ARE REFERENCED TO THE CENTER OF STRUCTURE.
- FOR CONCRETE THRUST BLOCK DETAILS REFER TO HIGHWAY STANDARD 610001

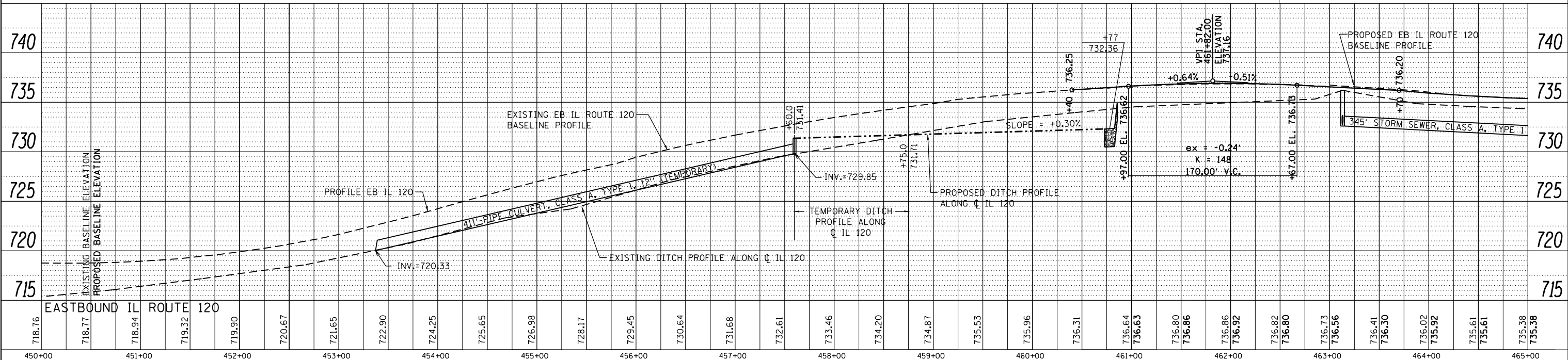
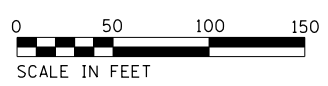
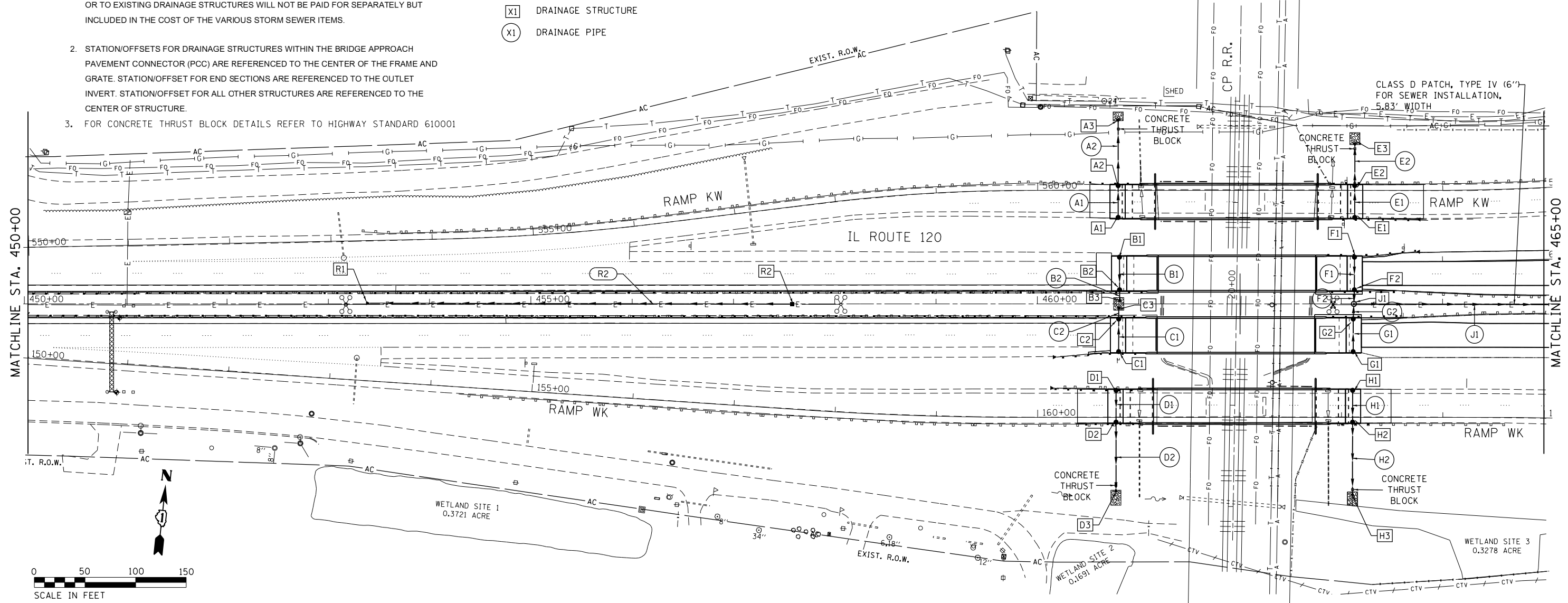
LEGEND

- X1 DRAINAGE STRUCTURE
- X1 DRAINAGE PIPE

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	PLOTTED	
	NOTE BOOK	
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PROFILE	SURVEYED	DATE
	PLOTTED	
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450+00	451+00	452+00	453+00	454+00	455+00	456+00	457+00	458+00	459+00	460+00	461+00	462+00	463+00	464+00	465+00																								

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET AND RAMPS
DRAINAGE AND UTILITIES

F.A.P. RT. 333	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 55
121VB-1&2&12R-1HB-2(BR)&12-RS-2	CONTRACT NO. 60X40		ILLINOIS FED. AID PROJECT	

SCALE: 1"=50'H
SHEET 2 OF 3 SHEETS
STA. 450+00 TO STA. 465+00

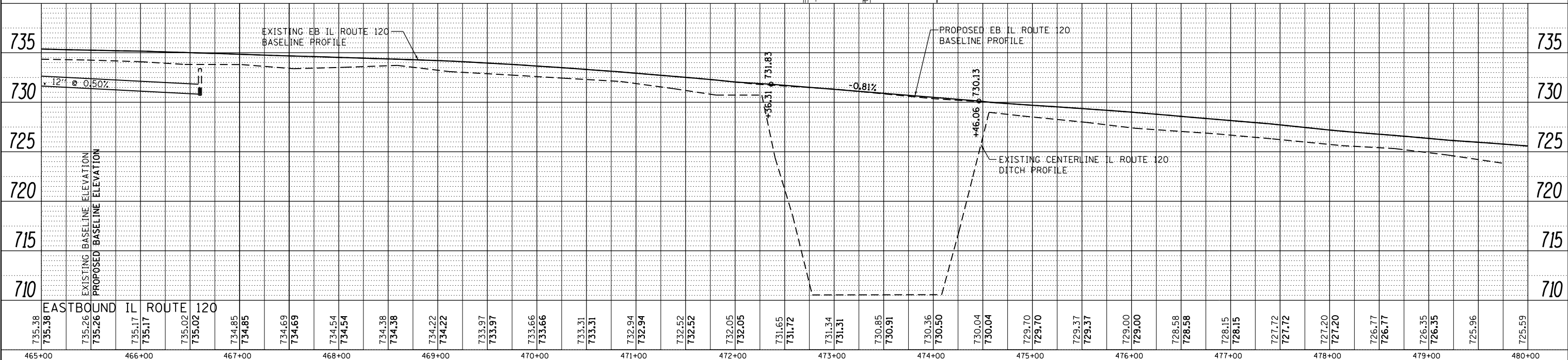
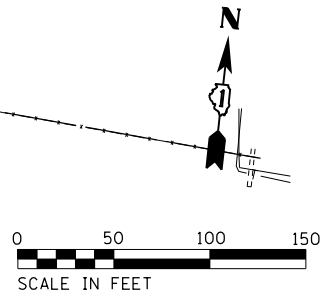
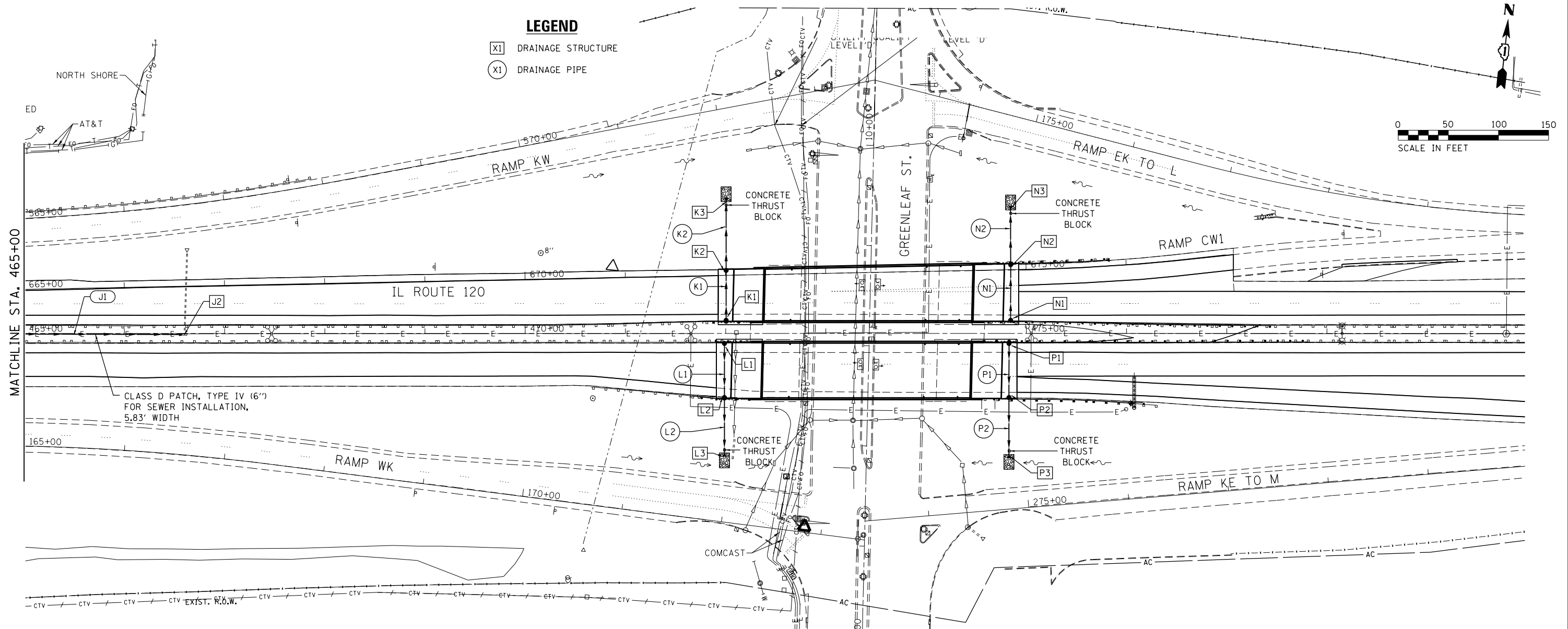
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LEGEND

- (X1) DRAINAGE STRUCTURE
- (X1) DRAINAGE PIPE



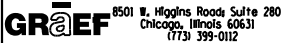
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730	PROPOSED EB IL ROUTE 120 BASELINE PROFILE	730
725	EXISTING CENTERLINE IL ROUTE 120 DITCH PROFILE	725
720		720
715		715
710		710

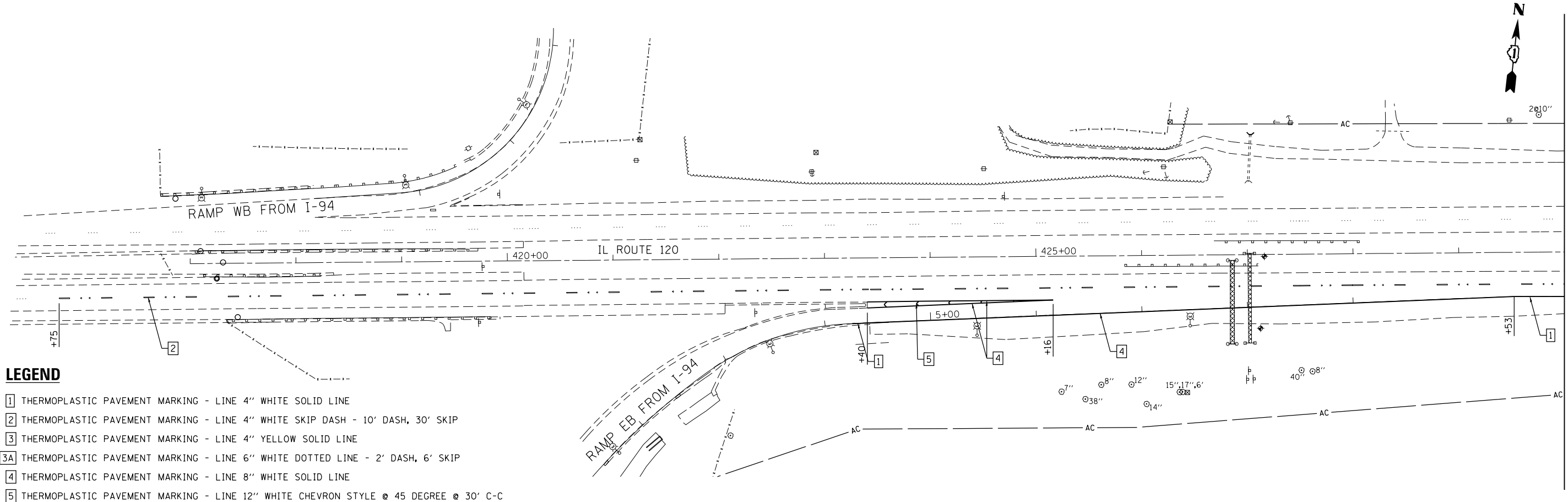
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465+00	466+00	467+00	468+00	469+00	470+00	471+00	472+00	473+00	474+00	475+00	476+00	477+00	478+00	479+00	480+00															

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STATE OF ILLINOIS		IL ROUTE 120 OVER CP RR, GREENLEAF STREET AND RAMPS	
DEPARTMENT OF TRANSPORTATION		DRAINAGE AND UTILITIES	
SCALE: 1"=50'	SHEET 3	OF 3 SHEETS	STA. 465+00 TO STA. 480+00

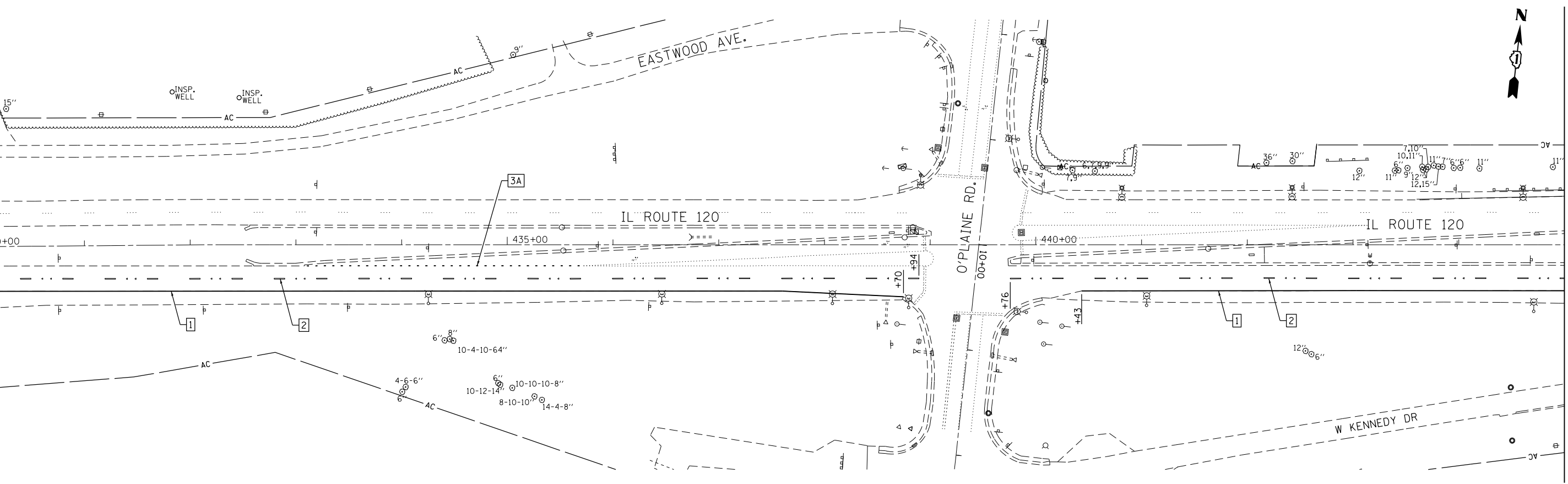
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* 12(VB-1&2)&12R-1(B)-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				





LEGEND

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID LINE
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SKIP DASH - 10' DASH, 30' SKIP
- 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID LINE
- 3A THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE DOTTED LINE - 2' DASH, 6' SKIP
- 4 THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE SOLID LINE
- 5 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE CHEVRON STYLE @ 45 DEGREE @ 30' C-C



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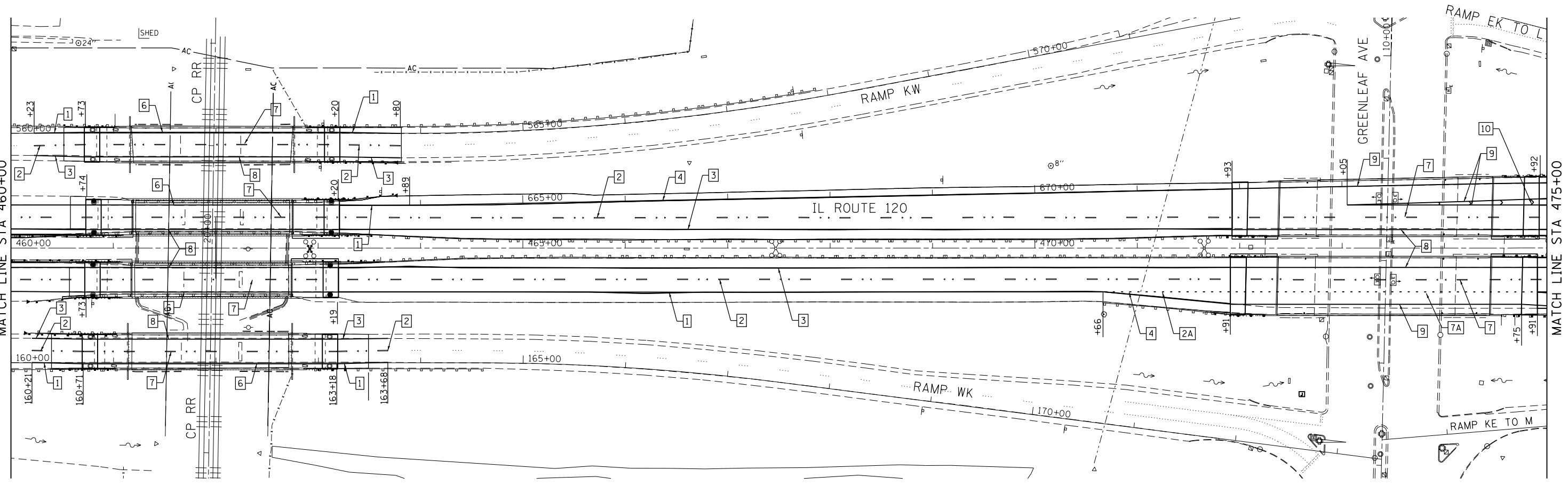
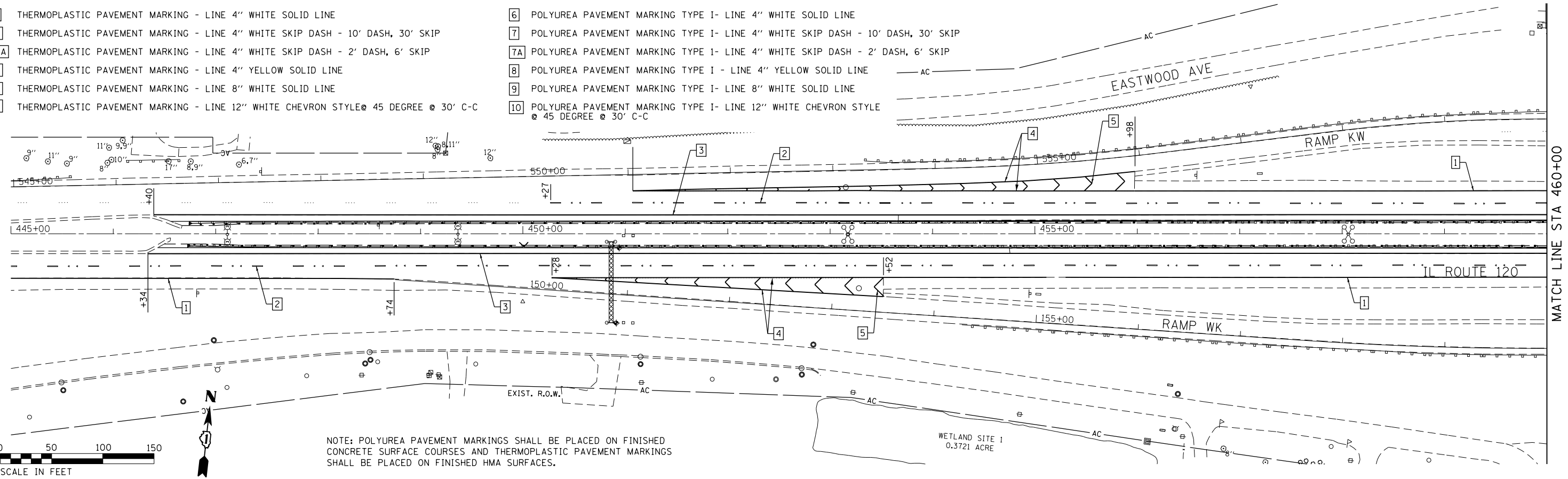
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET, AND RAMPS PAVEMENT MARKING PLAN		
SCALE: 1"=50'	SHEET 1 OF 3 SHEETS	STA. 417+00 TO STA. 445+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*12(VB-1&2)&12R-1(B)&12-RS-2	*	LAKE	288	57
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X40	

LEGEND

- | | | | |
|----|-------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|
| 1 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID LINE | 6 | POLYUREA PAVEMENT MARKING TYPE I- LINE 4" WHITE SOLID LINE |
| 2 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SKIP DASH - 10' DASH, 30' SKIP | 7 | POLYUREA PAVEMENT MARKING TYPE I- LINE 4" WHITE SKIP DASH - 10' DASH, 30' SKIP |
| 2A | THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SKIP DASH - 2' DASH, 6' SKIP | 7A | POLYUREA PAVEMENT MARKING TYPE I- LINE 4" WHITE SKIP DASH - 2' DASH, 6' SKIP |
| 3 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID LINE | 8 | POLYUREA PAVEMENT MARKING TYPE I - LINE 4" YELLOW SOLID LINE |
| 4 | THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE SOLID LINE | 9 | POLYUREA PAVEMENT MARKING TYPE I- LINE 8" WHITE SOLID LINE |
| 5 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE CHEVRON STYLE @ 45 DEGREE @ 30' C-C | 10 | POLYUREA PAVEMENT MARKING TYPE I- LINE 12" WHITE CHEVRON STYLE @ 45 DEGREE @ 30' C-C |



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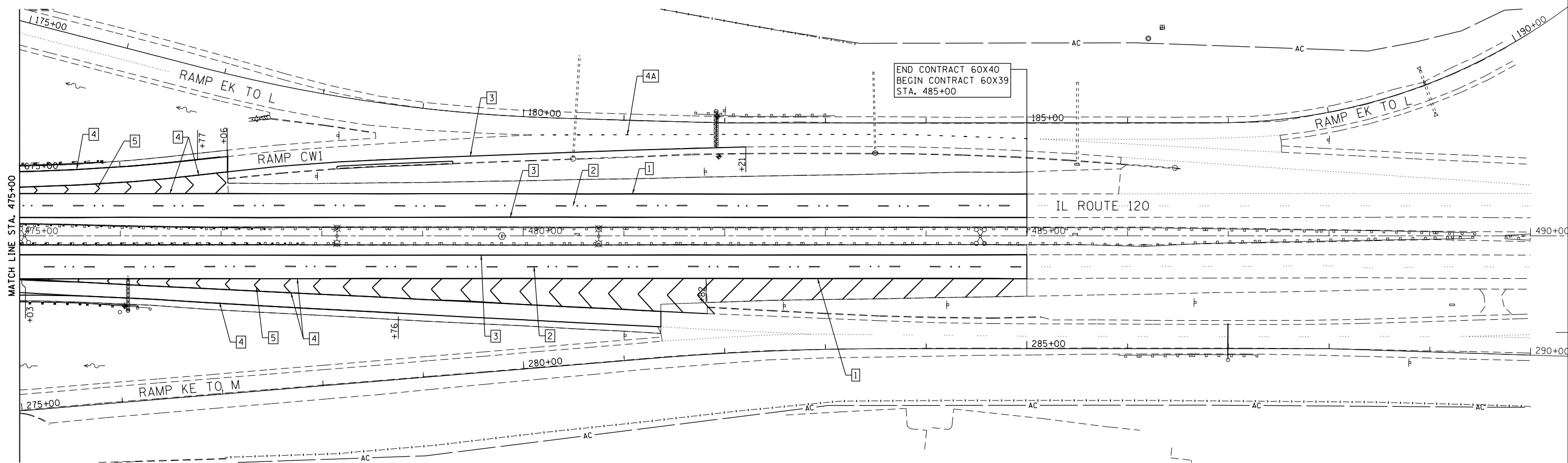
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 120 OVER CP RR, GREENLEAF STREET, AND RAMPS
 PAVEMENT MARKING PLAN**

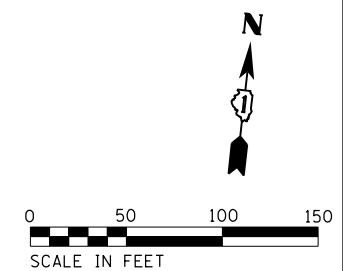
SCALE: 1"=50' SHEET 2 OF 3 SHEETS STA. 445+00 TO STA. 475+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*12(VB-1&2)&12R-1(HB-2(BR)&12-RS-2	*	LAKE	288	58
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X40	



LEGEND

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID LINE
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SKIP DASH - 10' DASH, 30' SKIP
- 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID LINE
- 4 THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE SOLID LINE
- 4A THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE DOTTED LINE - 3' DASH, 9' SKIP
- 5 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE CHEVRON STYLE @ 45 DEGREE @ 30' C-C

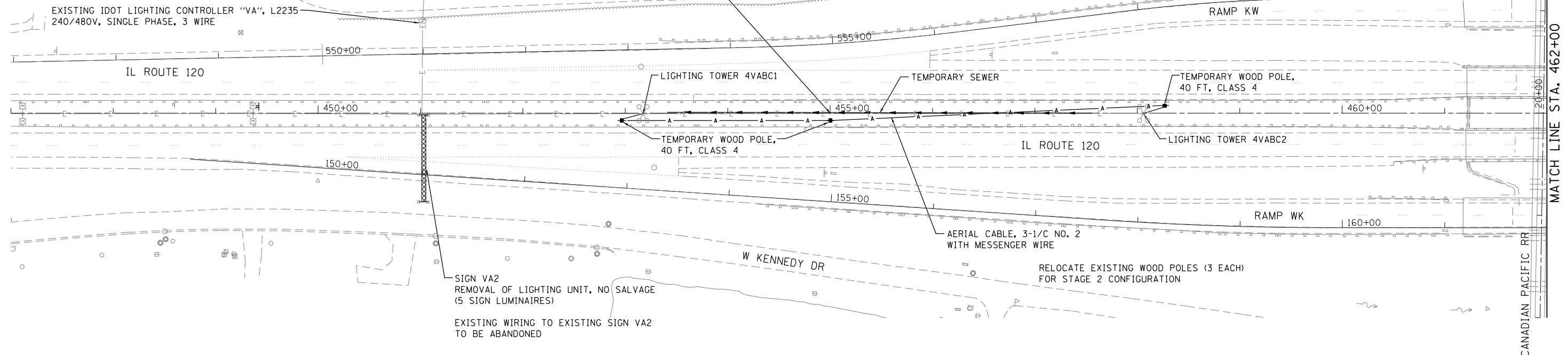


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	8501 N. Higgins Road Suite 280 Chicago, Illinois 60631 (773) 399-0112	PLOT SCALE = 1200.0000 "/> ft.	DRAWN -			REVISED -	* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2	LAKE	288	59
	PLOT DATE = 3/21/2017 - 3:47:48 PM	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET 3	OF 3	SHEETS	STA. 475+00	TO STA. 490+00
		DATE 08/26/2015	REVISED -							



PRIOR TO INSTALLING THE TEMPORARY PAVEMENT AND TEMPORARY SEWER, INSTALL TEMPORARY WOOD POLES, STRING AERIAL CABLE, AND SPLICE NEW AERIAL INTO THE EXISTING LIGHTING SYSTEM AT TOWER 4VABC1 TO PROVIDE SERVICE TO TOWER 4VABC2. THE EXISTING CONDUIT AND WIRING WILL BE DISPLACED AND THUS REMOVED DURING THE INSTALLATION OF THE TEMPORARY SEWER. PRIOR TO STAGE 2 CONSTRUCTION, RELOCATE THE WOOD POLES TO ALLOW FOR THE NEW TEMPORARY ROADWAY CONFIGURATION, AND RESTRING THE AERIAL CABLE FOR STAGE 2 LIGHTING. UPON THE REMOVAL OF THE TEMPORARY PAVEMENT AND TEMPORARY SEWER FOLLOWING STAGE 2 CONSTRUCTION, AND THEN FOLLOWING IMPLEMENTATION AND CONNECTION OF THE NEW CONDUIT AND WIRING BETWEEN THE TOWERS, THE TEMPORARY POLES AND AERIAL CABLE WILL BE REMOVED.



SIGN VA2
REMOVAL OF LIGHTING UNIT, NO SALVAGE
(5 SIGN LUMINAIRES)

EXISTING WIRING TO EXISTING SIGN VA2
TO BE ABANDONED

RELOCATE EXISTING WOOD POLES (3 EACH)
FOR STAGE 2 CONFIGURATION

LEGEND

- EXISTING OVERHEAD SIGN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING ELECTRIC HANDHOLE
- EXISTING PRIVATE UTILITY HANDHOLE
- EXISTING 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

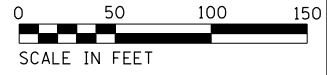
PRIOR TO INSTALLING THE NEW SEWER, INSTALL TEMPORARY WOOD POLES, STRING AERIAL CABLE, AND SPLICE NEW AERIAL INTO THE EXISTING LIGHTING SYSTEM AT TOWER 4VBAB2 TO PROVIDE SERVICE TO TOWER 4VBAB3. THE EXISTING CONDUIT AND WIRING WILL BE DISPLACED AND THUS REMOVED DURING THE INSTALLATION OF THE NEW SEWER. AFTER THE INSTALLATION OF THE SEWER AND THEN THE IMPLEMENTATION AND CONNECTION OF THE NEW CONDUIT AND WIRING BETWEEN THE TOWERS, THE TEMPORARY POLES AND AERIAL CABLE WILL BE REMOVED.

NOTES:

THE HEIGHT OF AERIAL CABLE SHALL BE 30' MINIMUM ABOVE PAVEMENT OR AS DIRECTED BY THE ENGINEER.

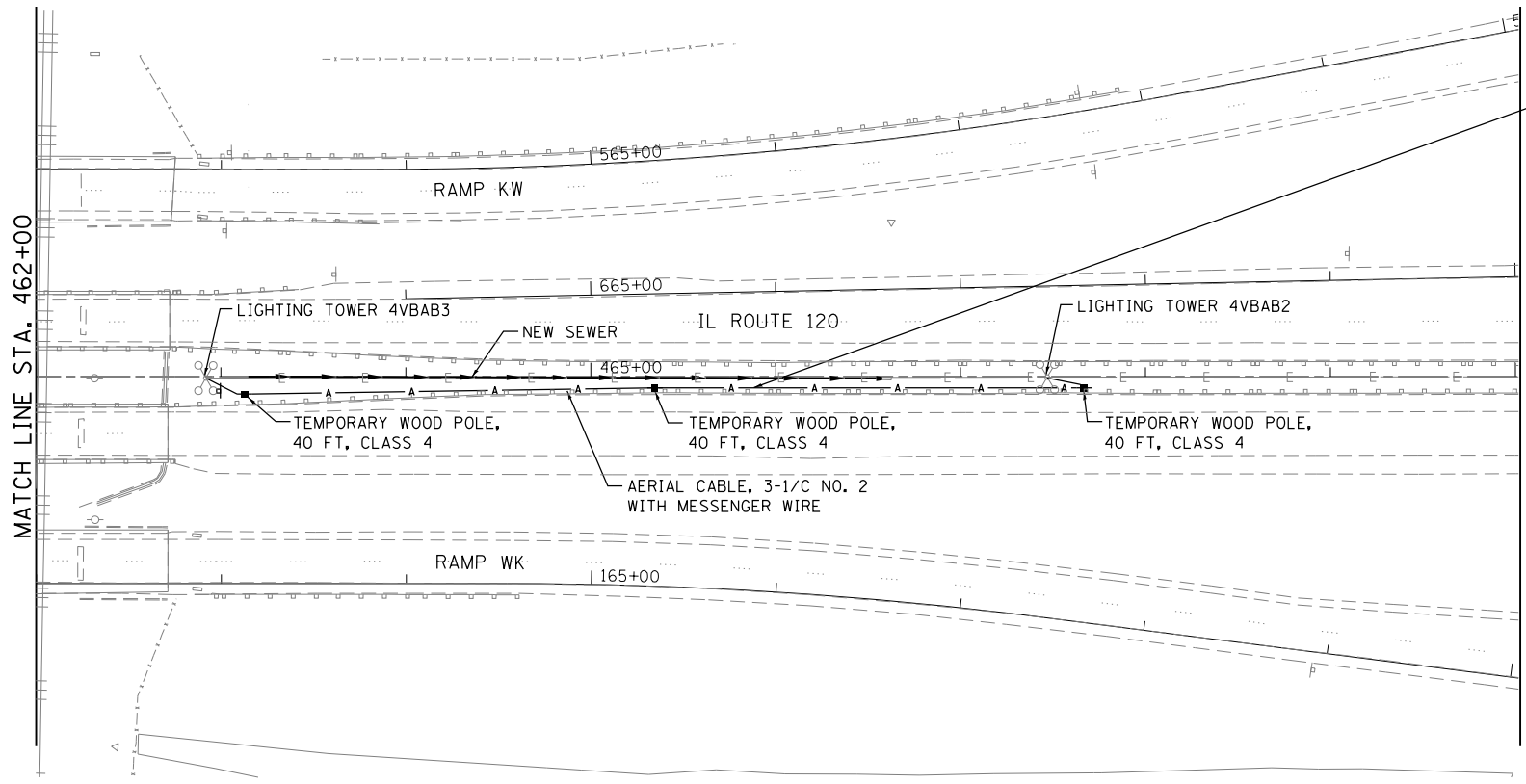
TEMPORARY WOOD POLES SHALL BE LOCATED 20' TO 50' FROM THE EXISTING LIGHTING TOWERS TO REMAIN.

SEE SIGNING PLANS FOR REMOVALS OF OVERHEAD SIGN STRUCTURES.



MATCH LINE STA. 462+00

MATCH LINE STA. 470+00



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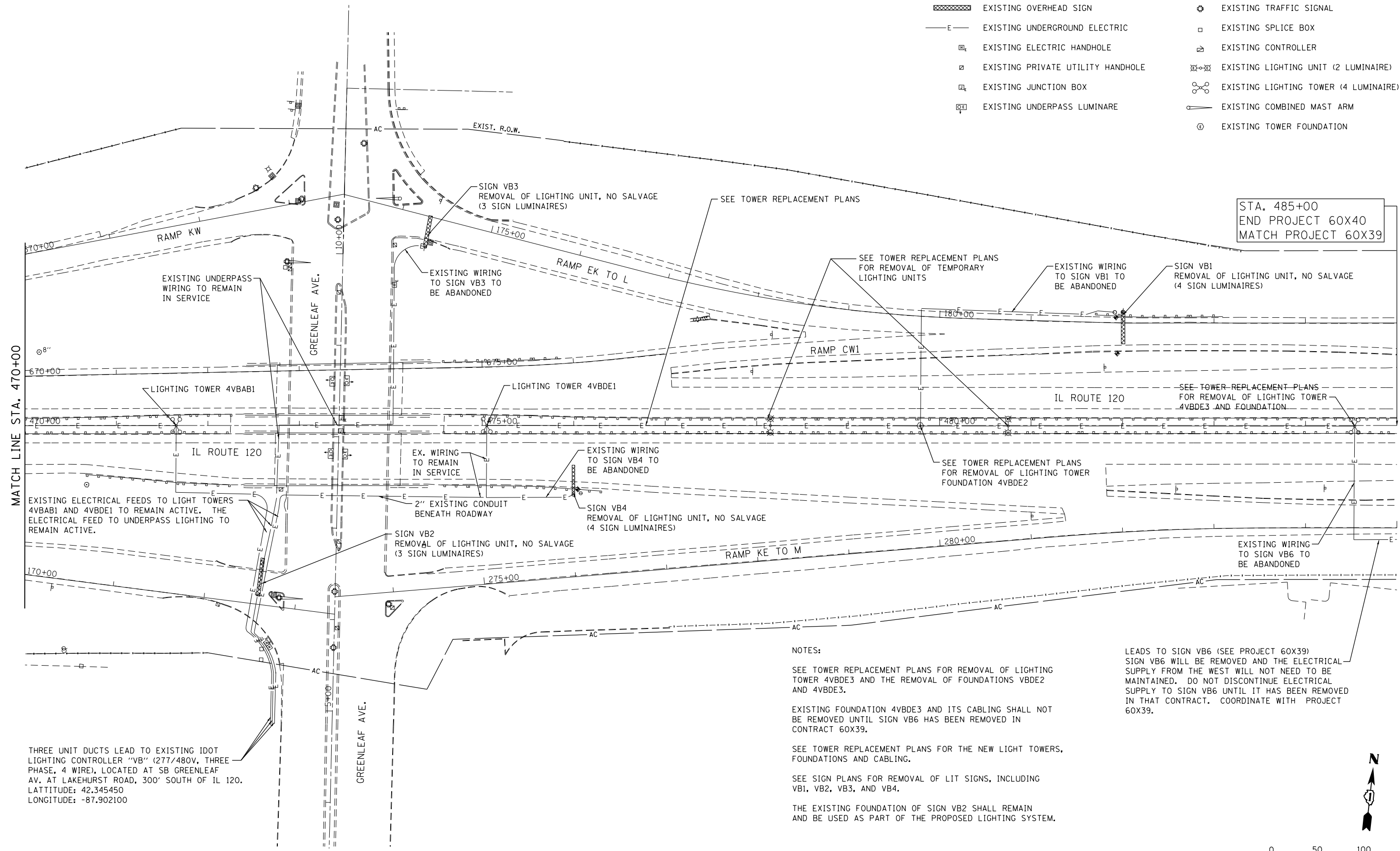
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 120 OVER CP RR, GREENLEAF STREET, AND RAMPS
EXISTING LIGHTING REMOVAL AND TEMPORARY 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.
	*	LAKE	288	60
*12(VB-1&2)&12R-1(HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

LEGEND

- ▣ EXISTING OVERHEAD SIGN
- E— EXISTING UNDERGROUND ELECTRIC
- ⊠ EXISTING ELECTRIC HANDHOLE
- ⊠ EXISTING PRIVATE UTILITY HANDHOLE
- ⊠ EXISTING 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

MATCH LINE STA. 470+00

EXISTING ELECTRICAL FEEDS TO LIGHT TOWERS 4VBAB1 AND 4VBDE1 TO REMAIN ACTIVE. THE ELECTRICAL FEED TO UNDERPASS LIGHTING TO REMAIN ACTIVE.

THREE UNIT DUCTS LEAD 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

NOTES:

SEE TOWER REPLACEMENT PLANS FOR REMOVAL OF LIGHTING TOWER 4VBDE3 AND THE REMOVAL OF FOUNDATIONS VBDE2 AND 4VBDE3.

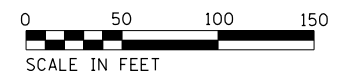
EXISTING FOUNDATION 4VBDE3 AND ITS CABLING SHALL NOT BE REMOVED UNTIL SIGN VB6 HAS BEEN REMOVED IN CONTRACT 60X39.

SEE TOWER REPLACEMENT PLANS FOR THE NEW LIGHT TOWERS, FOUNDATIONS AND CABLING.

SEE SIGN PLANS FOR REMOVAL OF LIT SIGNS, INCLUDING VB1, VB2, VB3, AND VB4.

THE EXISTING FOUNDATION OF SIGN VB2 SHALL REMAIN AND BE USED AS PART OF THE PROPOSED LIGHTING SYSTEM.

LEADS TO SIGN VB6 (SEE PROJECT 60X39)
SIGN VB6 WILL BE REMOVED AND THE ELECTRICAL SUPPLY FROM THE WEST WILL NOT NEED TO BE MAINTAINED. DO NOT DISCONTINUE ELECTRICAL SUPPLY TO SIGN VB6 UNTIL IT HAS BEEN REMOVED IN THAT CONTRACT. COORDINATE WITH PROJECT 60X39.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

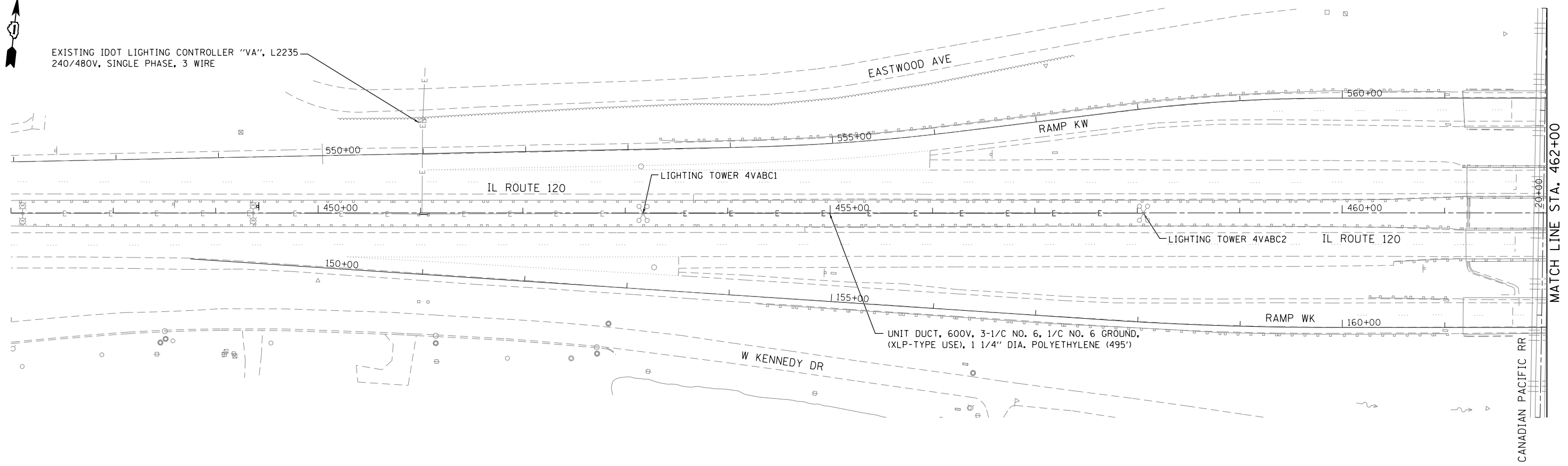
IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING PLANS

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. 470+00 TO STA. 485+00

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 61
* 12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

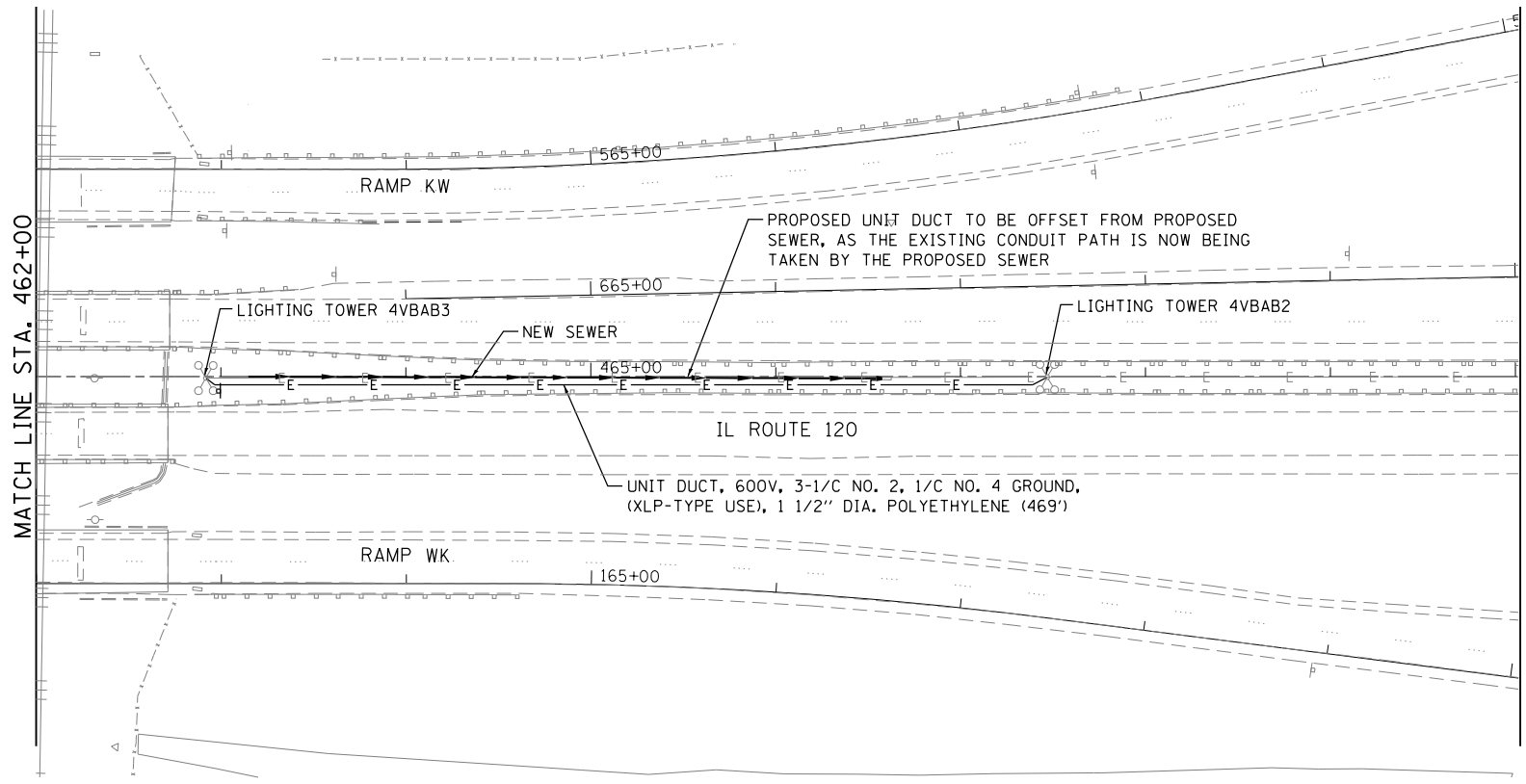


EXISTING IDOT LIGHTING CONTROLLER "VA", L2235
240/480V, SINGLE PHASE, 3 WIRE



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



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PLOT SCALE = 1200.0000 "/>		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

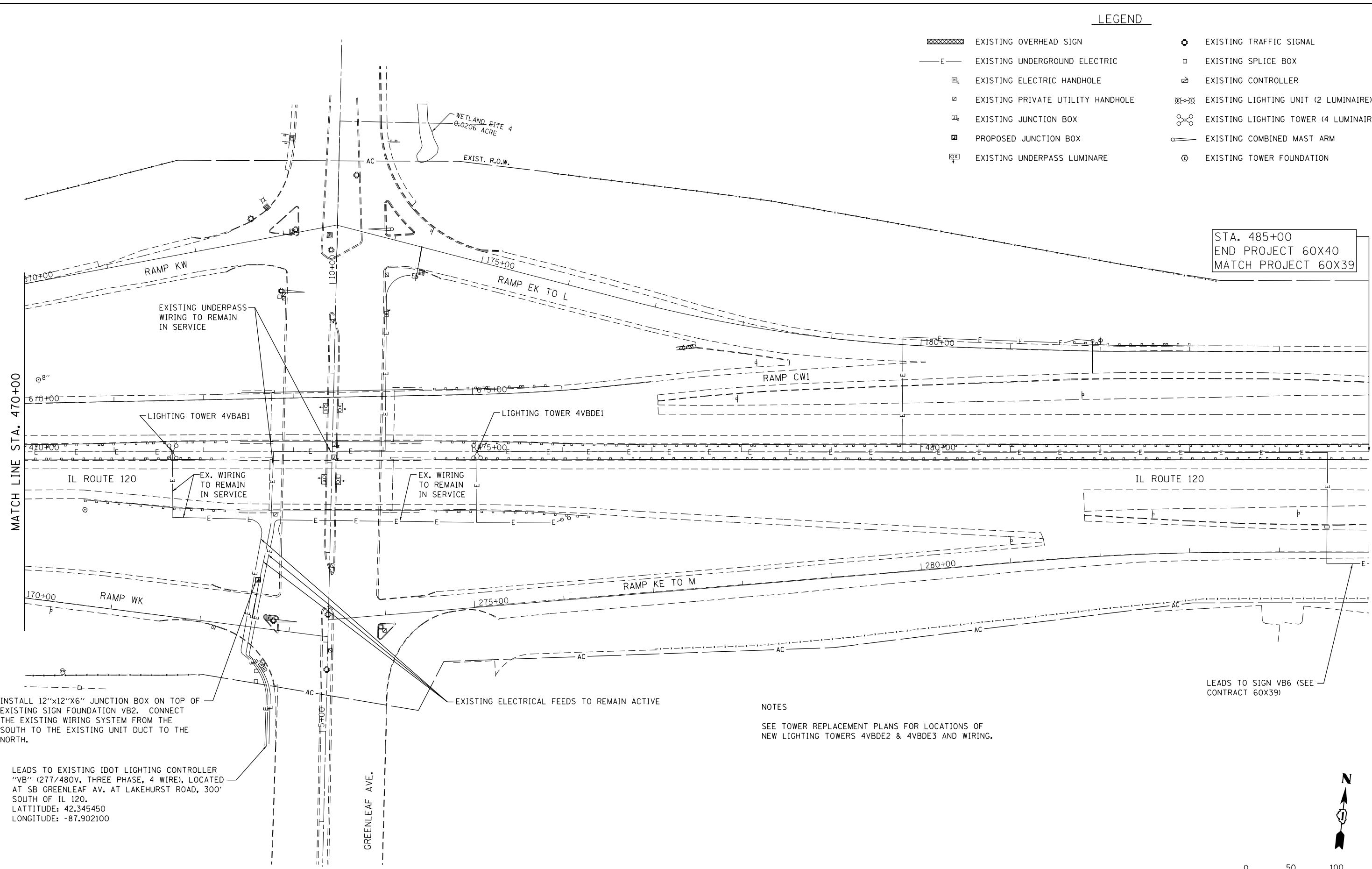
**IL ROUTE 120 OVER CP RR, GREENLEAF STREET, AND RAMPS
PROPOSED LIGHTING PLANS**

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.
*	*	LAKE	288	62
*12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

LEGEND

- ▨ EXISTING OVERHEAD SIGN
- E— 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

MATCH LINE STA. 470+00

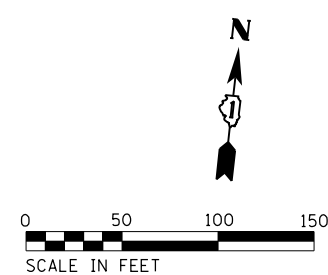
INSTALL 12"x12"x6" JUNCTION BOX ON TOP OF EXISTING SIGN FOUNDATION VB2. CONNECT THE EXISTING WIRING SYSTEM FROM THE SOUTH TO THE EXISTING UNIT DUCT TO THE NORTH.

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.

LEADS TO SIGN VB6 (SEE CONTRACT 60X39)



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DRAWN - ED	REVISED -	
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PLOT DATE = 3/21/2017 3:47:43 PM	DATE - 08/26/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
PROPOSED LIGHTING PLANS
SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. 470+00 TO STA. 485+00

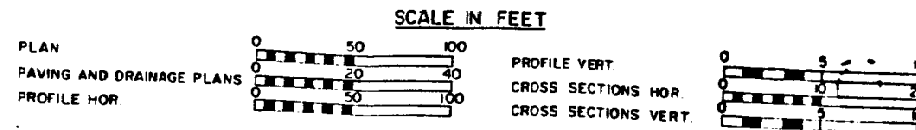
F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 63
* 12(VB-1&2)&12R-1(B-2)(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

DIVISION OF HIGHWAYS PLANS FOR PROPOSED FEDERAL AID HIGHWAY

~~2217~~

INDEX OF SHEETS ON SHEET NO. 6

LIGHTING CONTROLLERS
L2235-VA
L2236-VB
L2237-VC
L2265-LO



F. A. ROUTE 420(ILL. 120) SECTION 12R-2, 12R-1HB-2, 12VB-2, 12R-L&SG PROJECT F-420-1(9)

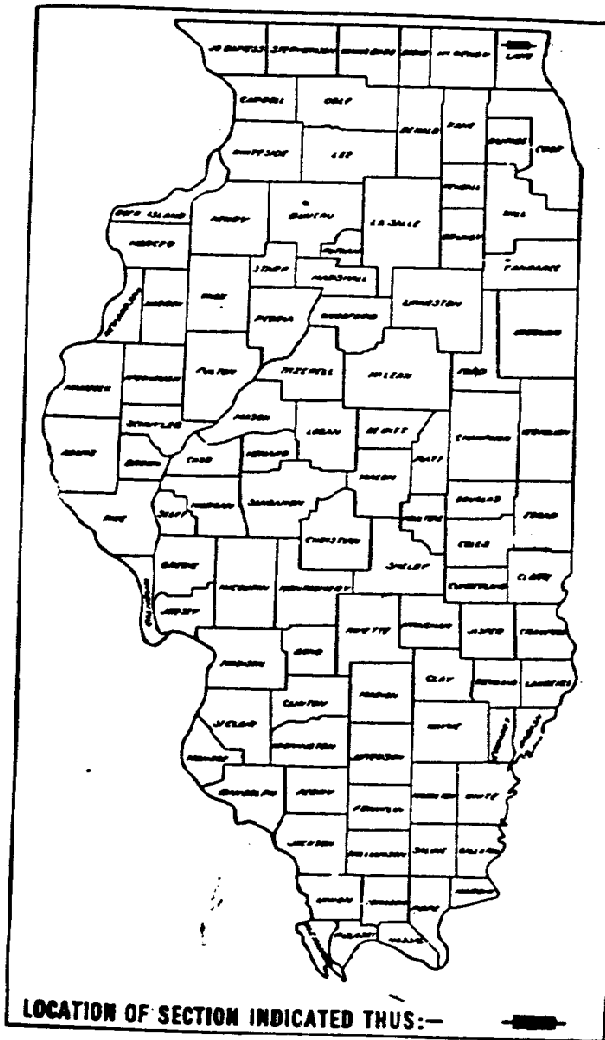
FOR INFORMATION ONLY

LAKE COUNTY

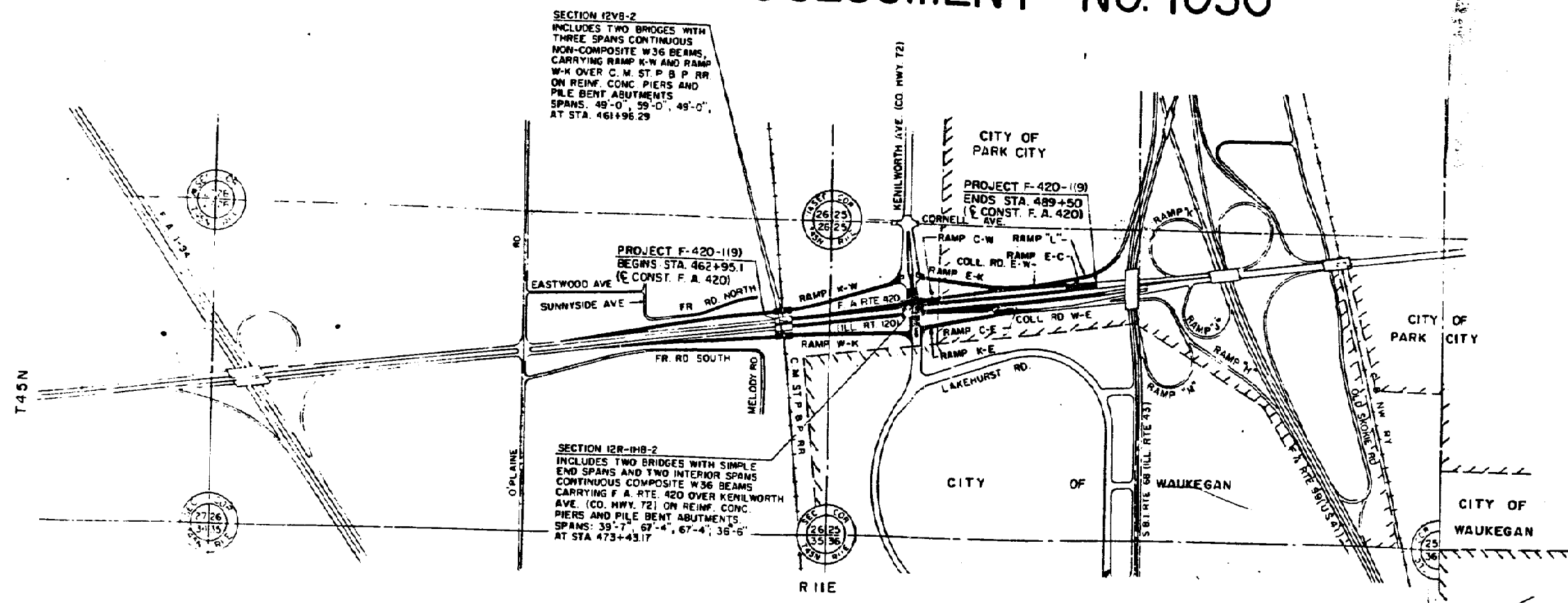
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WAUKEGAN SECTION 76-00150-00-RP SPECIAL ASSESSMENT NO. 1050

798 2/60
778 2/60
785

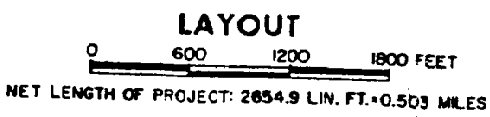


LOCATION OF SECTION INDICATED THIS:—



SECTION 12VB-2
INCLUDES TWO BRIDGES WITH
THREE SPANS CONTINUOUS
NON-COMPOSITE W36 BEAMS
CARRYING RAMP K-W AND RAMP
W-K OVER C. M. ST. P. B. RR
ON REINF. CONC. PIERS AND
PILE BENT ABUTMENTS
SPANS: 49'-0", 59'-0", 49'-0"
AT STA. 461+96.29

SECTION 12R-1HB-2
INCLUDES TWO BRIDGES WITH SIMPLE
END SPANS AND TWO INTERIOR SPANS
CONTINUOUS COMPOSITE W36 BEAMS
CARRYING F. A. RTE. 420 OVER KENILWORTH
AVE. (CO. HWY. 72) ON REINF. CONC.
PIERS AND PILE BENT ABUTMENTS
SPANS: 39'-7", 67'-4", 67'-4", 36'-6"
AT STA. 473+43.17



NET LENGTH OF PROJECT: 2654.9 LIN. FT. + 0.503 MILES

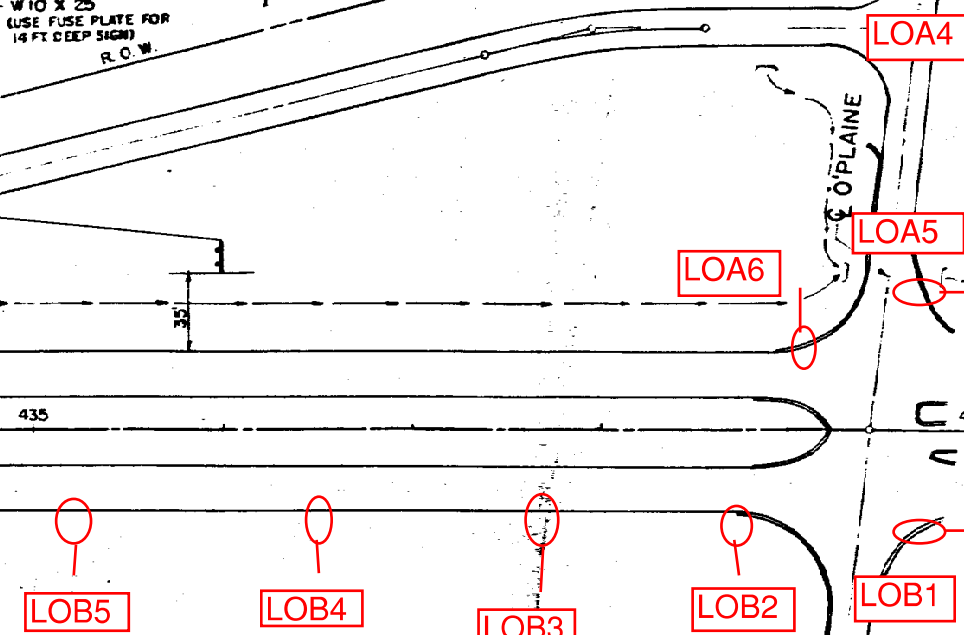
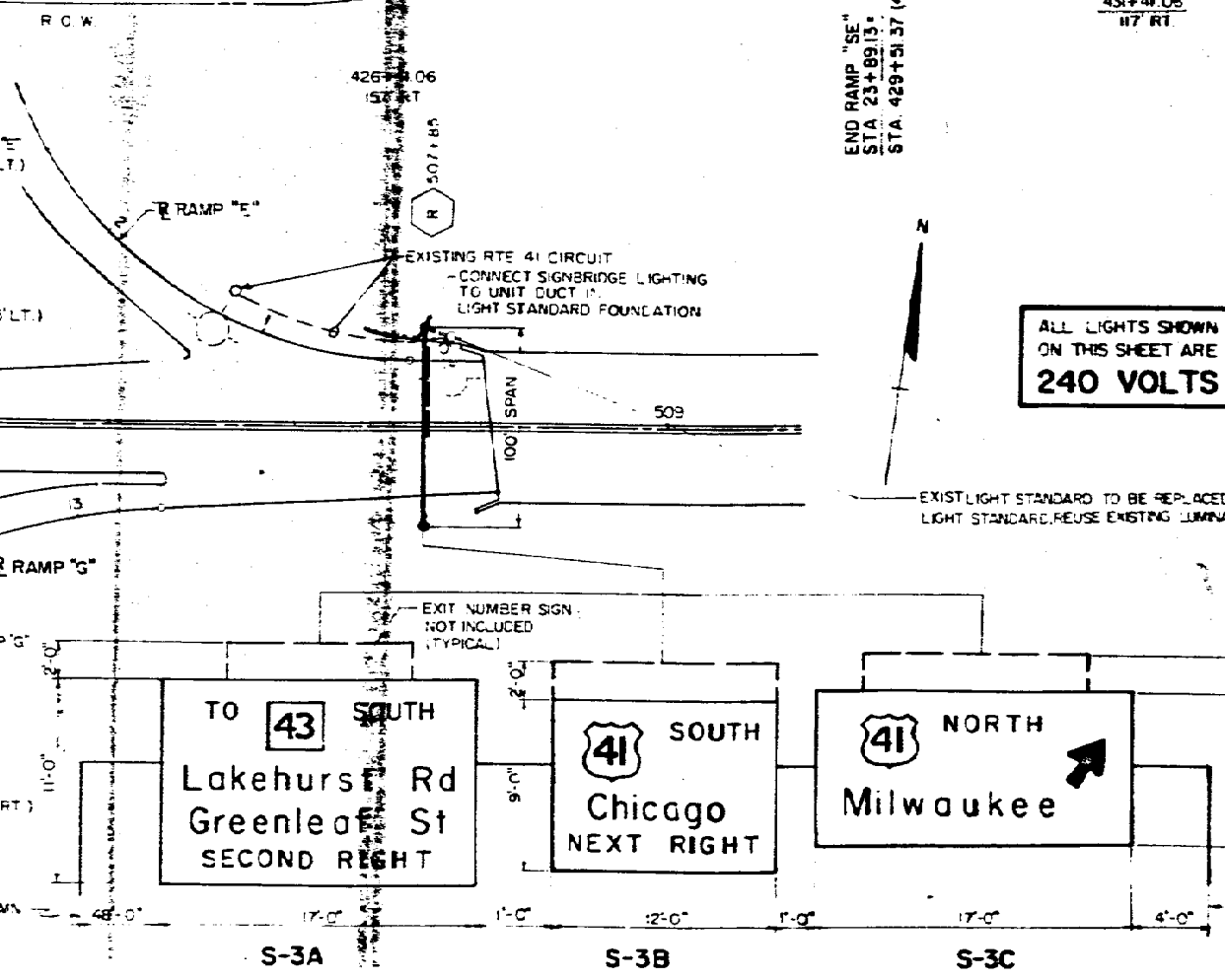
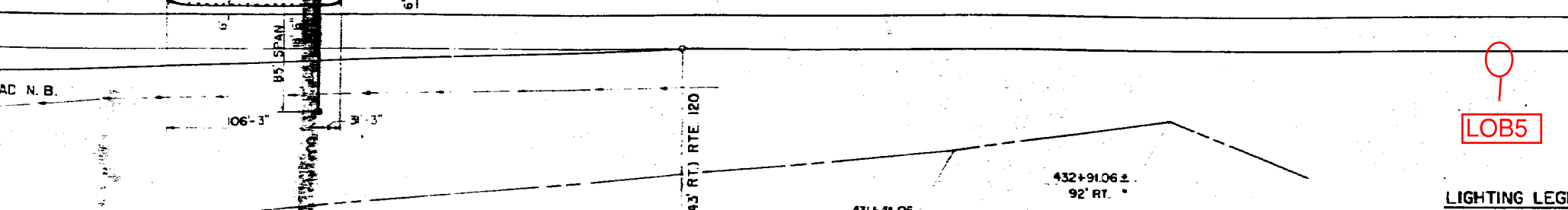
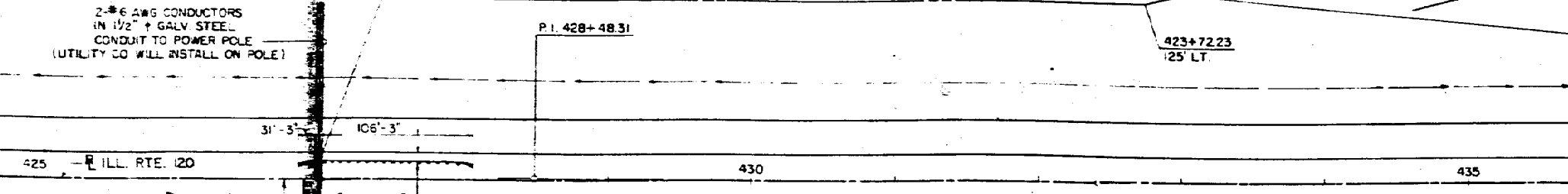
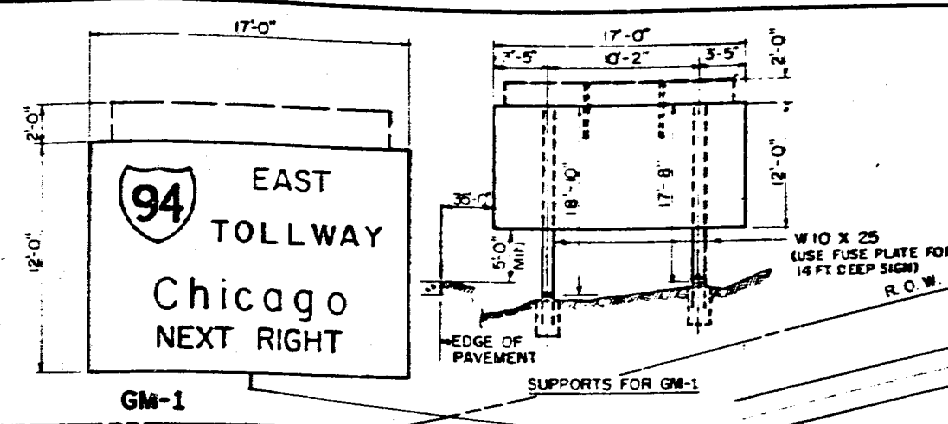
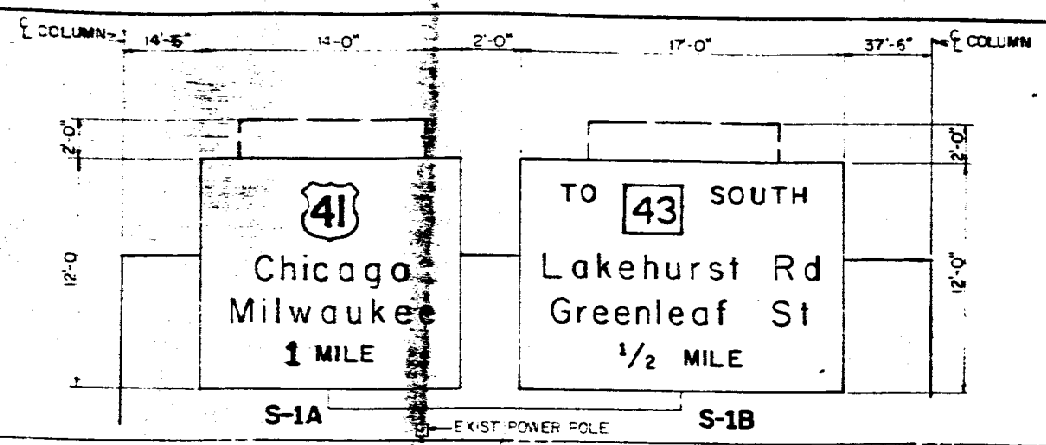
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED _____
EXAMINED _____
PASSED _____
APPROVED _____
DISTRICT ENGINEER
ENGINEER OF PLANS AND CONTRACTS
ENGINEER OF DESIGN
DIRECTOR OF HIGHWAYS

DEPARTMENT OF TRANSPORTATION
DISTRICT ADMINISTRATION
APPROVED _____
DIVISION ENGINEER
DATE _____

PLANS PREPARED BY
CONSOER, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS—CHICAGO
Robert L. Munson
ROBERT L. MUNSON

D CLASSIFICATION
T-2(7.12)(PCC 20)

CURVE DATA
 P.C. = 424+52.97
 P.T. = 432+42.97
 P.I. = 428+48.31
 L = 790.00'
 Δ = 138°



ALL LIGHTS SHOWN ON THIS SHEET ARE 240 VOLTS

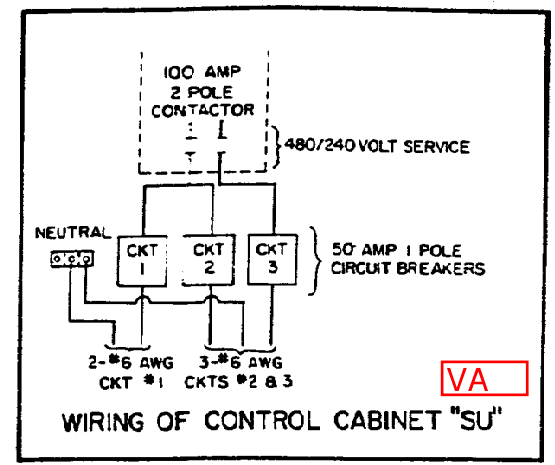
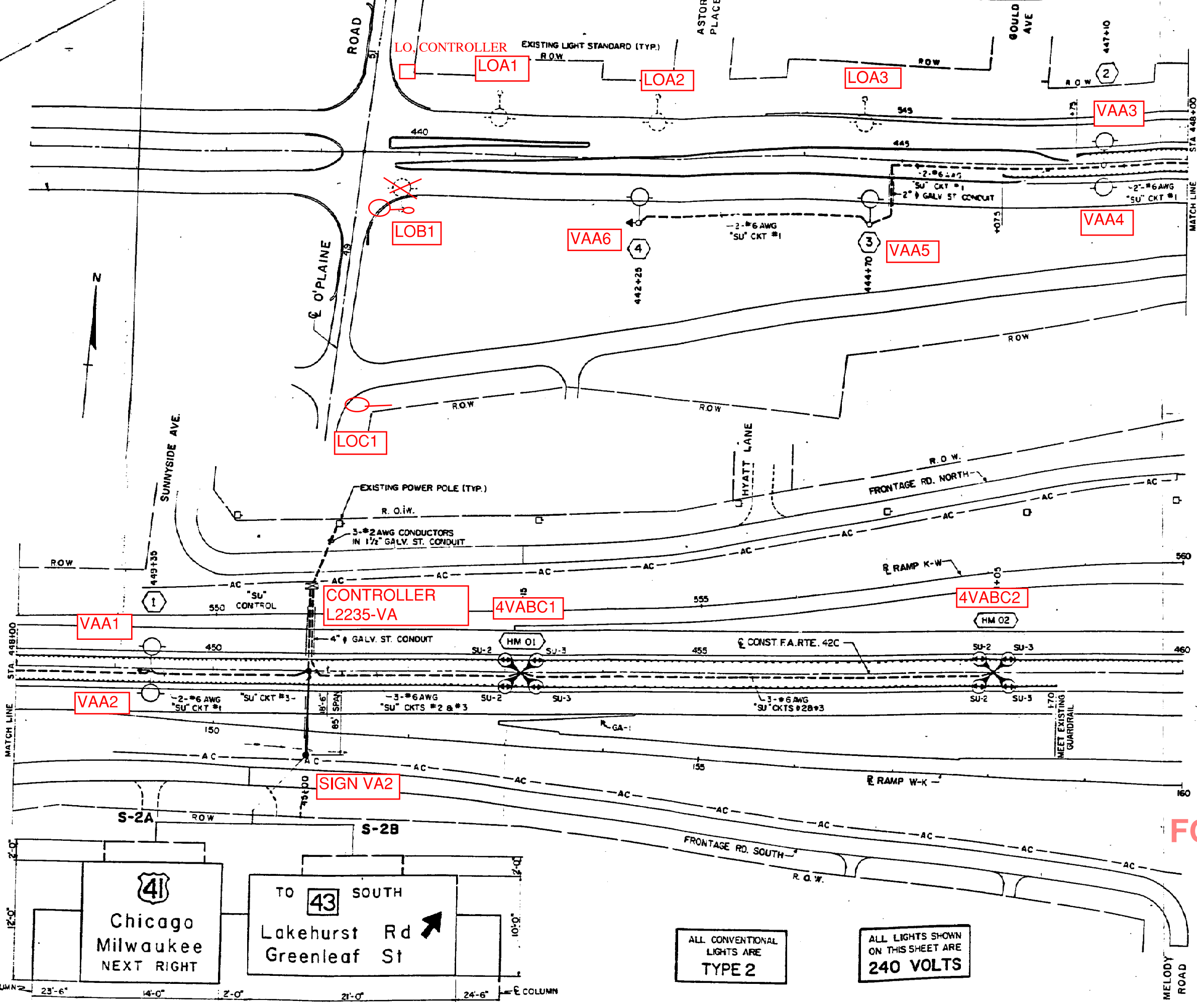
- LIGHTING LEGEND**
- EXISTING LIGHT STANDARD, OR ONE SHOWN ON ANOTHER SHEET
 - SINGLE ARM LIGHT STANDARD
 - SINGLE ARM LIGHT STANDARD WITH GROUND ROD
 - DOUBLE ARM LIGHT STANDARD
 - DOUBLE ARM LIGHT STANDARD WITH GROUND ROD
 - HIGH MAST LIGHT TOWER WITH SYMMETRICAL LIGHT PATTERN
 - HIGH MAST LIGHT TOWER WITH ASYMMETRICAL LIGHT PATTERN (ARROWS INDICATE THE DIRECTION OF PATTERN ELONGATION)
 - UNDERDECK LIGHT UNIT ON C OF BRIDGE
 - LIGHT STANDARD NUMBER
 - CONTROL INSTALLATION
 - INSULATED CABLE IN UNIT DUCT
 - INSULATED CABLE IN UNIT DUCT IN EXISTING GALV. CONDUIT (ALSO WITHOUT UNIT DUCT)
 - JUNCTION BOX

- SIGNING LEGEND**
- CANTILEVER SIGN STRUCTURE
 - OVERHEAD SIGNBRIDGE STRUCTURE
 - BRIDGE MOUNTED SIGN
 - GROUND MOUNTED SIGN

FOR INFORMATION ONLY

TOTAL 288	SHEET 66
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LIGHTING AND SIGNING PLANS
 F. A. RTE. 420
 0 50 100



NUMBER OF LAMPS PER CIRCUIT (VOLTAGE = 240V)

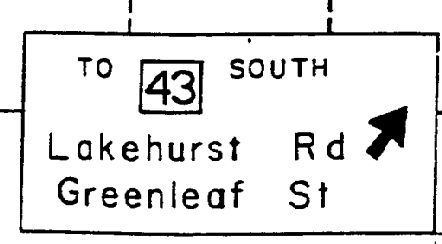
LAMP SIZE	CKT 1	CKT 2	CKT 3
1000 W	0	4	4
400 W	6	0	0
85 W	12	0	0
TOTAL AMPS	18	19	19

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

ALL LIGHTS SHOWN ON THIS SHEET ARE 277 VOLTS

TO 43 SOUTH
← Lakehurst Rd
Greenleaf St →

SIGN VB3

4VBAB2

4VBAB1

4VBAB3

SIGN VB2

CONTROLLER L2236-VB

FOR INFORMATION ONLY

TO 43 SOUTH
Lakehurst Rd →
← Greenleaf St

LIGHTING AND SIGNING PLANS
F. A. RTE 420

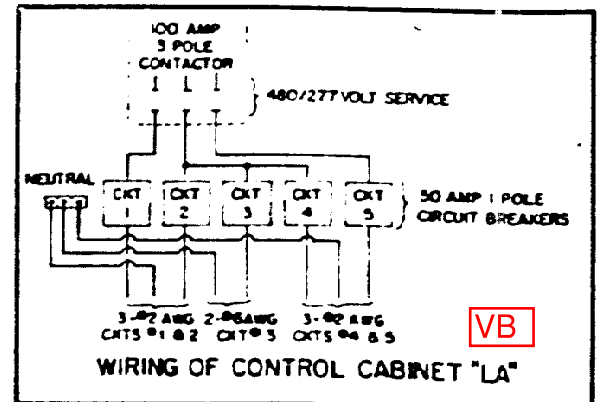
USE THE SPECIALTY ITEM "CONTROL INSTALLATION SPECIAL, 100 AMPERES" AT LOCATION "LA"

SPECIFICATION FOR CONTROL CABINET "LA"

VB

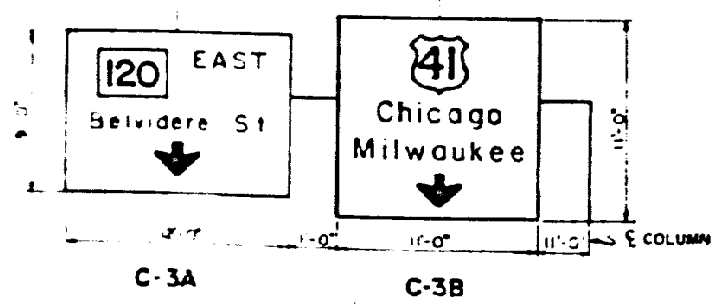
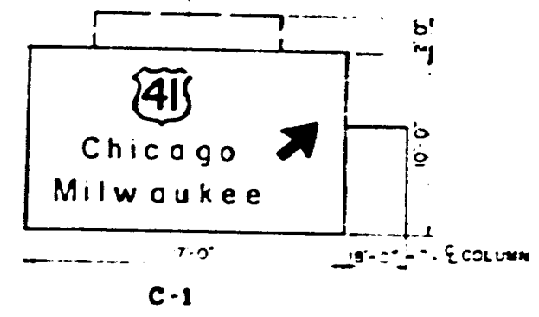
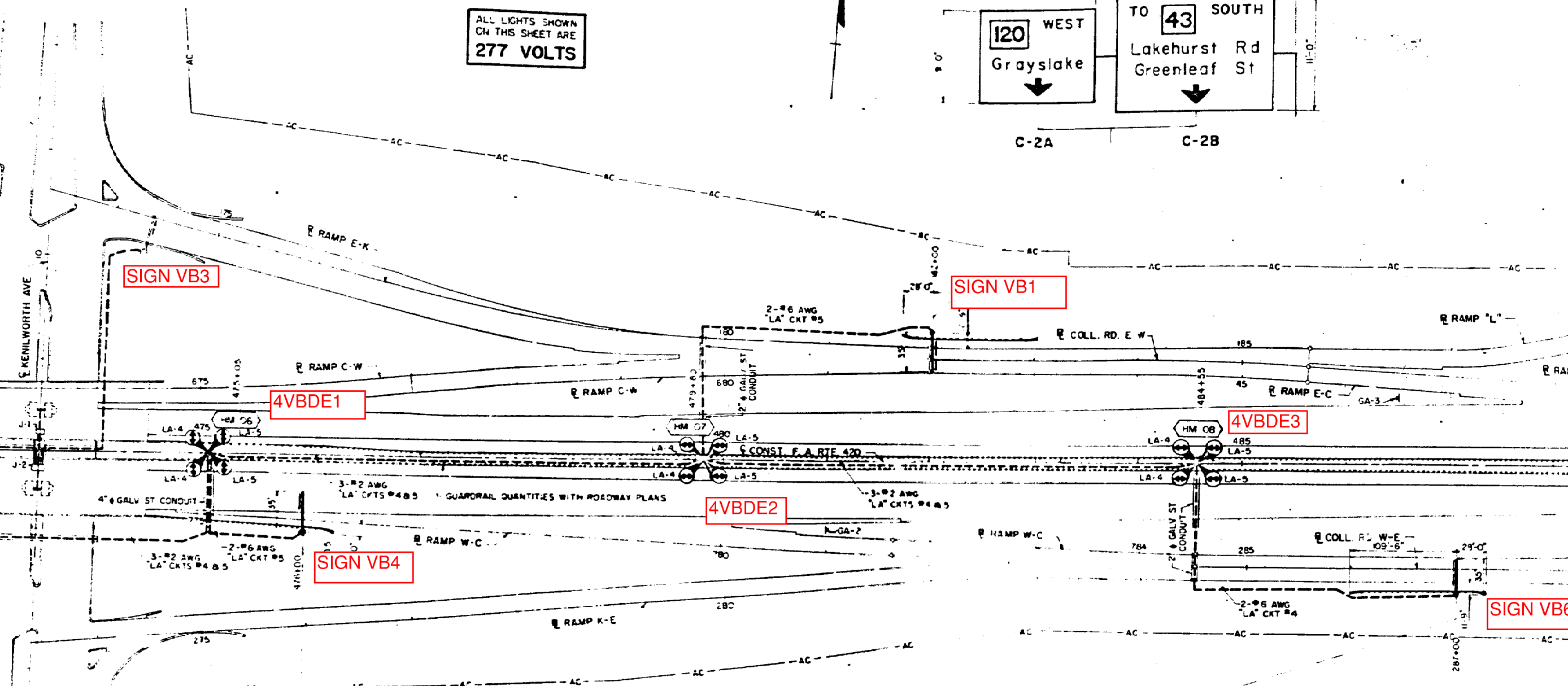
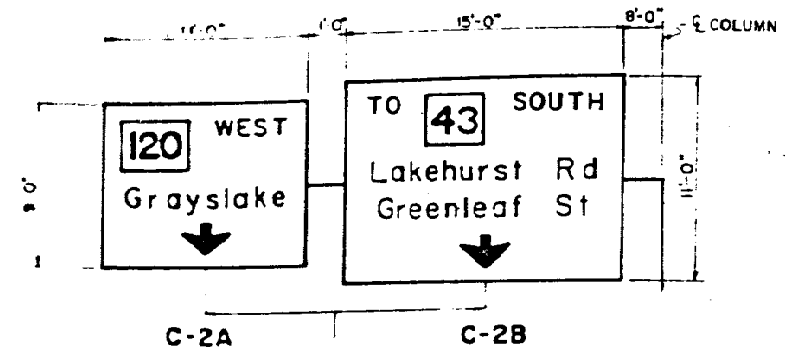
NUMBER OF LAMPS PER CIRCUIT (VOLTAGE - 277V)					
LAMP SIZE	CKT 1	CKT 2	CKT 3	CKT 4	CKT 5
1000 W	6	6	0	6	6
175 W	0	0	4	0	0
85 W	0	0	12	8	14
TOTAL AMPS	24	24	8	27	30

ELECTRIC LOADS AT CONTROL CABINET "LA" VB



FEDERAL RD DISTRICT NO.	SEC	COUNTY	TOTL SHEETS
420	17A-65G	LAKE	27A
SPR REG NO.	ILLINOIS	PROJECT	

ALL LIGHTS SHOWN ON THIS SHEET ARE 277 VOLTS



FOR INFORMATION ONLY

LIGHTING AND SIGNING PLANS F A RTE 420

TOTAL 288	SHEET 69
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69-302

FEDERAL AID ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
420	DR-480G	LAKE	278	2
I.L.D. REG NO		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"

ALL LIGHTS SHOWN ON THIS SHEET ARE 240 VOLTS

FOR INFORMATION ONLY

4VCAB1

SIGN VC3

4VCEF1

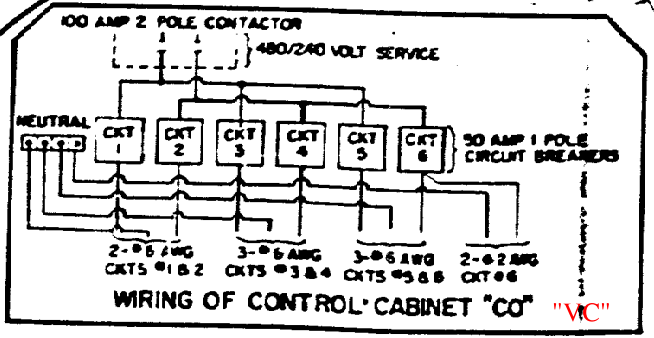
4VCAB2

CONTROLLER L2237-VC

SIGN LB2

4VCCD1

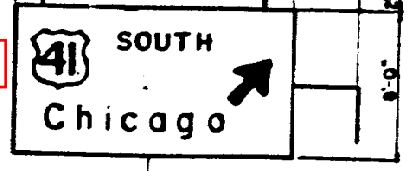
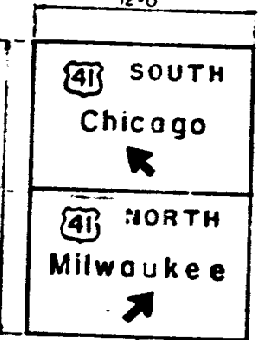
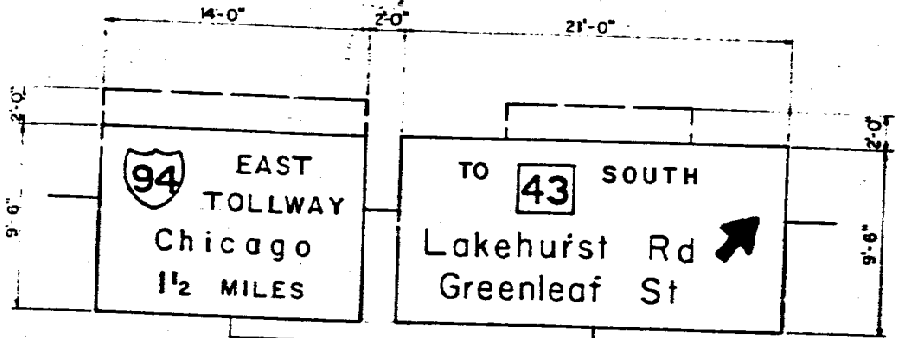
SIGN VC1



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



7/19/11

60X40, Tower Replacement Grouped per Location

Tower Information

Item #	Lighting Controller "L" Number	Lighting Controller Designation	TOWER Structure No.	County	Nearby City or Village	Main Route	Cross St	Existing Latitude	Existing Longitude	PROPOSED HIGH MAST LUMINAIRE (QUANTITY-WATTAGE)	EXISTING LUMINAIRE VOLTAGE	EXISTING High Mast Luminaires to be SALVAGED	EXISTING TOWERS TO BE REMOVED NO SALVAGE	EXISTING TOWERS THAT HAVE BEEN REMOVED	EXISTING Foundations to be Removed	EXISTING TOWER, HEIGHT (FEET)	PROPOSED TOWER, HEIGHT (FEET)	PROPOSED RECOMMENDED FOUNDATION Depth (FEET)	PROPOSED FOUNDATION DIAMETER (INCHES)
1	L2236	VB	4VBDE2	Lake	Waukegan	IL 120 (Belvidere Rd)	Greenleaf St	42.347227	-87.899669	4-750W	277	-	-	X	X	110	110	16	48
33	L2236	VB	4VBDE3	Lake	Waukegan	IL 120 (Belvidere Rd)	Greenleaf St	42.347364	-87.897921	4-750W	277	4-750W	X	-	X	110	110	16	48



USER NAME = kkhan	DESIGNED - HM	REVISED -
	DRAWN - GJ	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - HS	REVISED -
PLOT DATE = 2/6/2017	DATE - 12-09-2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TOWER REPLACEMENT GROUPED PER LOCATION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	12(VB-1&2) & 12R-1HB-2(BR)	LAKE	288	71
CONTRACT NO. 60X40				
ILLINOIS FED. AID PROJECT				

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE CONTRACTOR'S VEHICLES MUST ALWAYS MOVE WITH AND NOT AGAINST OR ACROSS THE FLOW OF TRAFFIC, AND THEY MUST ENTER OR LEAVE WORK AREAS IN A MANNER WHICH IS NOT HAZARDOUS TO TRAFFIC AND WILL NOT INTERFERE WITH NORMAL TRAFFIC. THE CONTRACTOR'S VEHICLES MUST NOT PARK OR STOP EXCEPT WITHIN DESIGNATED WORK AREAS. PERSONAL VEHICLES ARE NOT PERMITTED TO PARK WITHIN THE RIGHT-OF-WAY EXCEPT IN AREAS DESIGNATED BY THE COMMISSIONER.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE FIELD FIT TO CONDITIONS AS DIRECTED BY THE ENGINEER.
3. ALL SIGNS THAT ARE TO BE IN PLACE MORE THAN 4 DAYS SHALL BE MOUNTED ON METAL POSTS WHEN POSSIBLE, 7 FEET FROM THE TOP OF PAVEMENT TO THE BOTTOM OF THE SIGN, AND DRIVEN A MINIMUM OF 3 FEET INTO THE GROUND. A DIGGER LOCATE SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF THE POSTS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
4. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER; ANY SIGNS OR DEVICES LEFT IN PLACE ARE TO BE PROTECTED FROM DAMAGE AND MAINTAINED.
5. BORING PITS ARE TO BE PLACED AT LEAST 15' FROM THE TRAVELED WAY ON THE MAINLINE TO ELIMINATE THE NEED FOR TRAFFIC CONTROL AND PROTECTION PER IDOT HIGHWAY STANDARD 701106-02.
6. USE IDOT DISTRICT 1 STANDARD TC-17 FOR PARTIAL RAMP CLOSURES AND SHOULDER CLOSURES ON IL 120 WHERE REQUIRED.
7. 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.
8. TOWER ASSEMBLY LAYDOWN AREAS MUST BE APPROVED BY THE ENGINEER PRIOR TO USE. ADDITIONAL TRAFFIC CONTROL WILL NOT BE PROVIDED SOLELY FOR TOWER LAYDOWN AREAS.

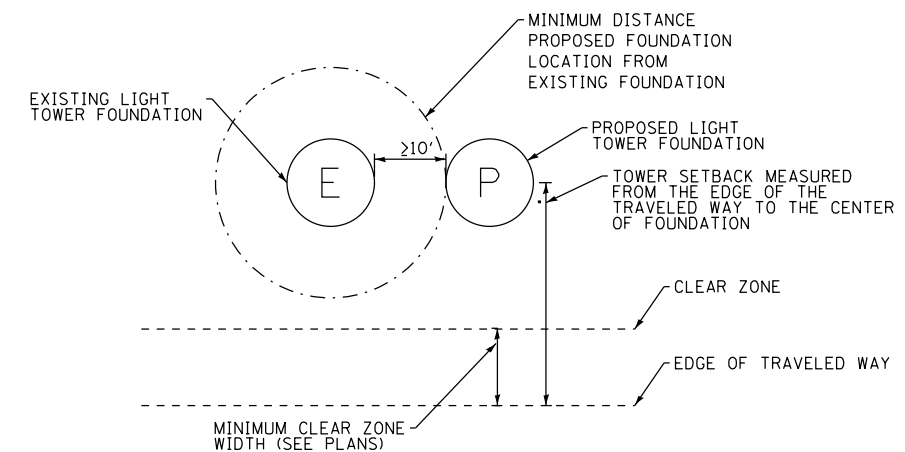
THE FOLLOWING HIGHWAY STANDARDS ARE TO BE APPLIED TO THE SITE:

IL-120 AT GREENLEAF AVE: TC-17, 701421-08, 704001-08, 782006-00

EROSION AND SEDIMENT CONTROL GENERAL NOTES

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

LIGHT TOWER FOUNDATION ZONE OF INFLUENCE DETAIL



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PLOT DATE = 2/7/2017	DATE - 01-06-2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 120 OVER CP RR, GREENLEAF AVENUE AND RAMPS
CIVIL SITE GENERAL NOTES











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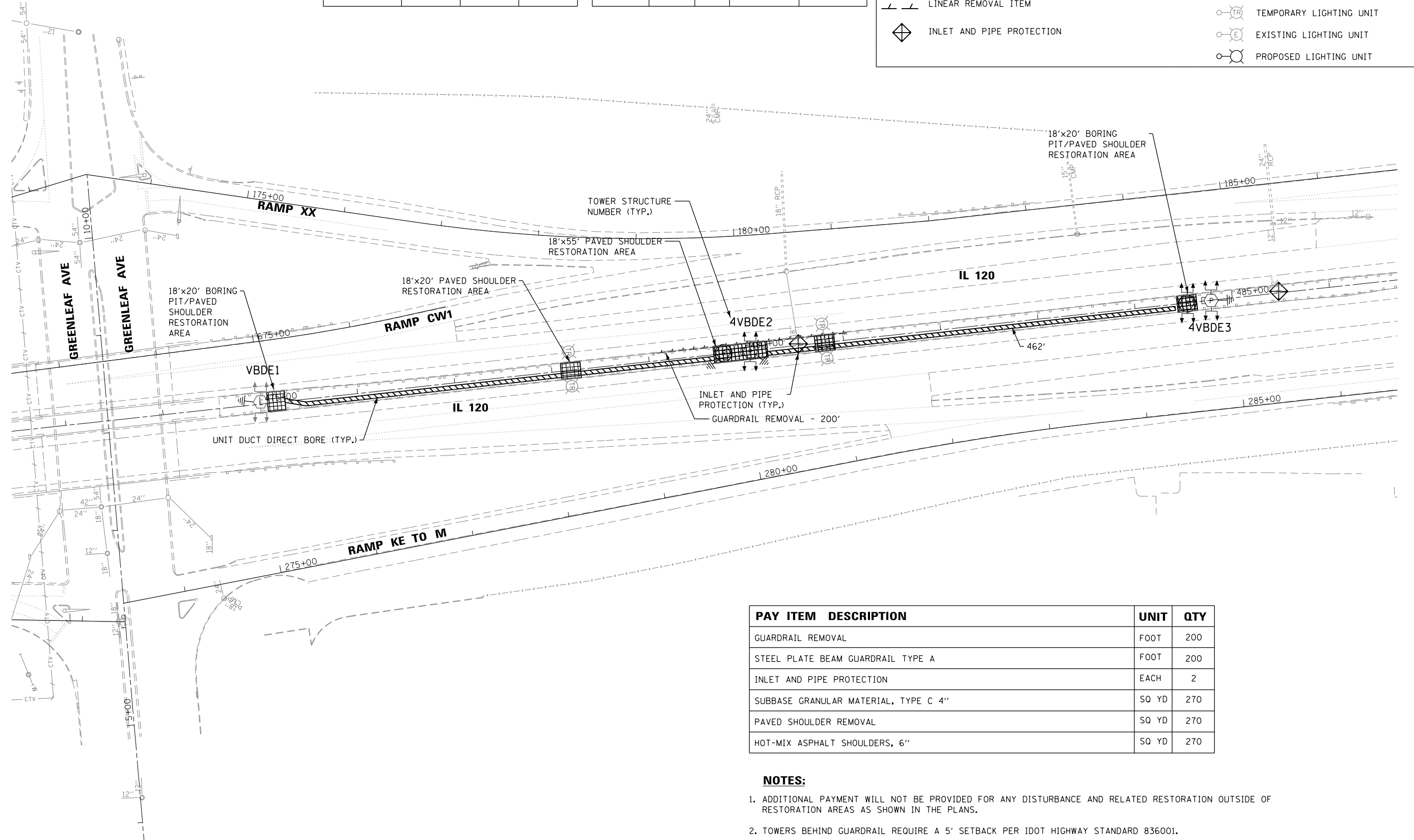
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	12(VB-1&2) & 12R-1HB-2(BR)	LAKE	288	72
CONTRACT NO. 60X40			ILLINOIS FED. AID PROJECT	

TOWER STRUCTURE NO.	DESIGN SPEED (M.P.H.)	ADT	CLEAR ZONE (FT.)
4VBDE2	55	19600	32
4VBDE3	55	19600	32

ROADWAY FACILITY	POSTED SPEED (M.P.H.)	ADT	WORK ZONE CLEAR ZONE (FT.)	ROADWAY CLEAR ZONE (FT.)
IL-120	55	19600	16	32
GREENLEAF	55	19600	16	32

LEGEND

	UNIT DUCT DIRECT BORE		PROPOSED LIGHT TOWER
	BORING PIT/PAVED SHOULDER RESTORATION AREA		REMOVED LIGHT TOWER
	LINEAR REMOVAL ITEM		EXISTING LIGHT TOWER TO REMAIN
	INLET AND PIPE PROTECTION		TEMPORARY LIGHTING UNIT
			EXISTING LIGHTING UNIT
			PROPOSED LIGHTING UNIT



PAY ITEM DESCRIPTION	UNIT	QTY
GUARDRAIL REMOVAL	FOOT	200
STEEL PLATE BEAM GUARDRAIL TYPE A	FOOT	200
INLET AND PIPE PROTECTION	EACH	2
SUBBASE GRANULAR MATERIAL, TYPE C 4"	SO YD	270
PAVED SHOULDER REMOVAL	SO YD	270
HOT-MIX ASPHALT SHOULDERS, 6"	SO YD	270

- NOTES:**
- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE AND RELATED RESTORATION OUTSIDE OF RESTORATION AREAS AS SHOWN IN THE PLANS.
 - TOWERS BEHIND GUARDRAIL REQUIRE A 5' SETBACK PER IDOT HIGHWAY STANDARD 836001.
 - PAVED SHOULDER RESTORATION AREA INCLUDES PAVED SHOULDER REMOVAL, SUBBASE GRANULAR MATERIAL TC 4", AND HOT-MIX ASPHALT SHOULDER, 6".



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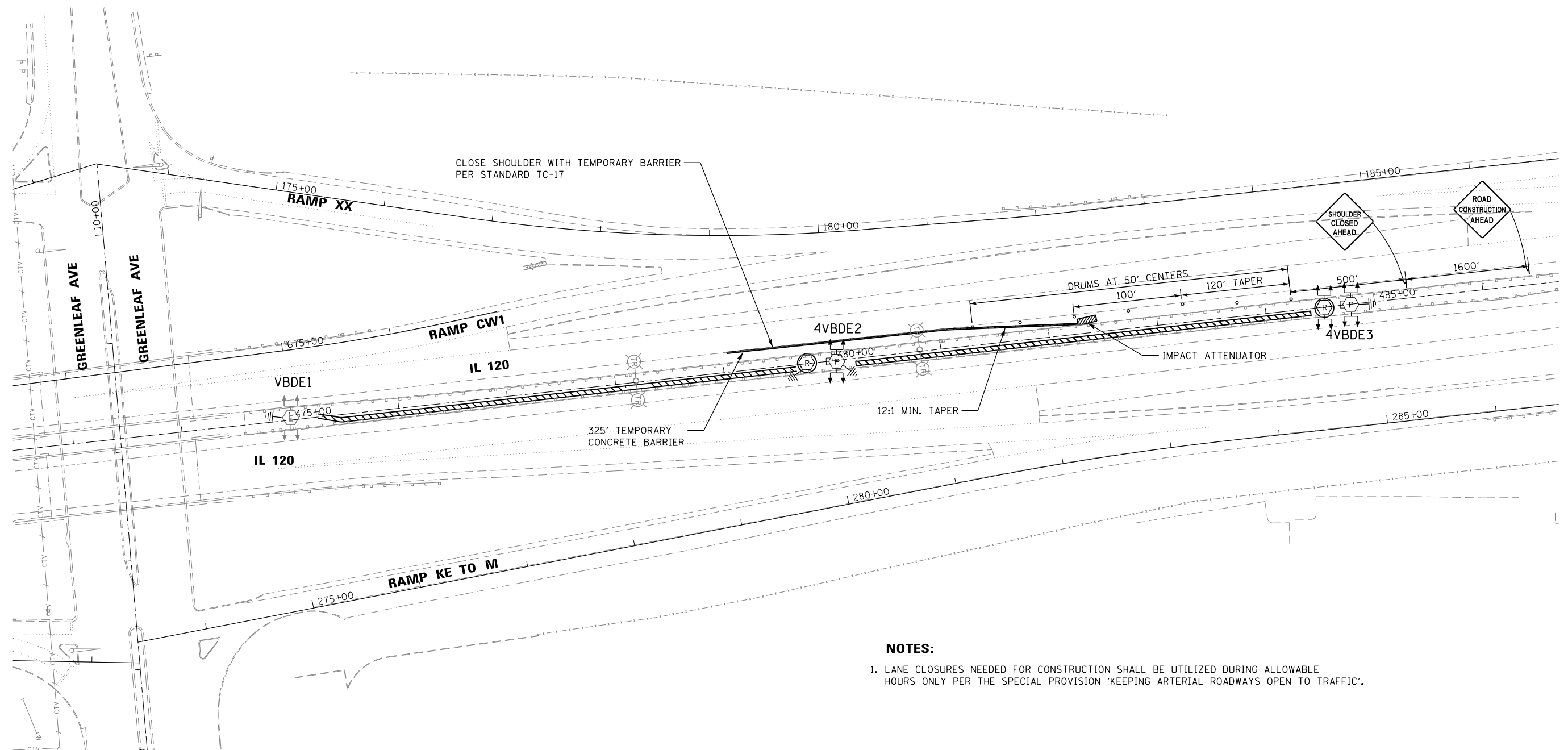
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PLOT DATE = 2/6/2017	DATE - 01-06-2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 120 OVER CP RR, GREENLEAF AVENUE AND RAMPS
CIVIL SITE RESTORATION PLAN**

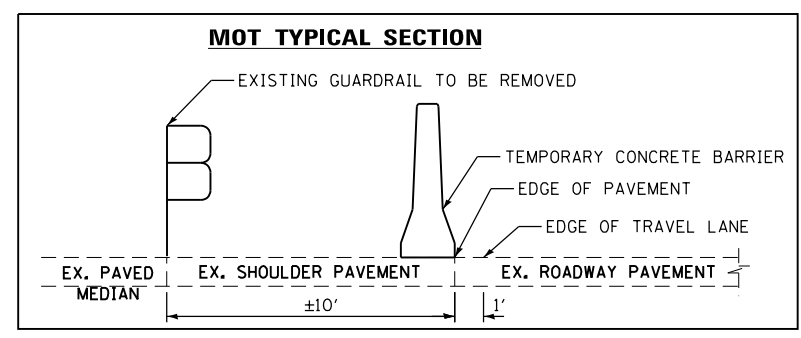
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	12(VB-1&2) & 12R-1HB-2(BR)	LAKE	288	73
CONTRACT NO. 60X40				
ILLINOIS FED. AID PROJECT				

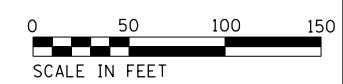


NOTES:

- LANE CLOSURES NEEDED FOR CONSTRUCTION SHALL BE UTILIZED DURING ALLOWABLE HOURS ONLY PER THE SPECIAL PROVISION 'KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC'.



PAY ITEM DESCRIPTION	UNIT	QTY
TEMPORARY CONCRETE BARRIER	FOOT	325
IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1
BARRIER WALL REFLECTORS, TYPE C	EACH	26
TRAFFIC CONTROL AND PROTECTION, SPECIAL	LSUM	1



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PLOT SCALE = 100.0000' / in.	CHECKED - WJB	REVISED -
PLOT DATE = 2/6/2017	DATE - 01-06-2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 120 OVER CP RR, GREENLEAF AVENUE AND RAMPS
CIVIL SITE MAINTENANCE OF TRAFFIC PLAN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	12(VB-1&2) & 12R-1HB-2(BR)	LAKE	288	74
CONTRACT NO. 60X40				
ILLINOIS FED. AID PROJECT				

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 FORESEEN 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.

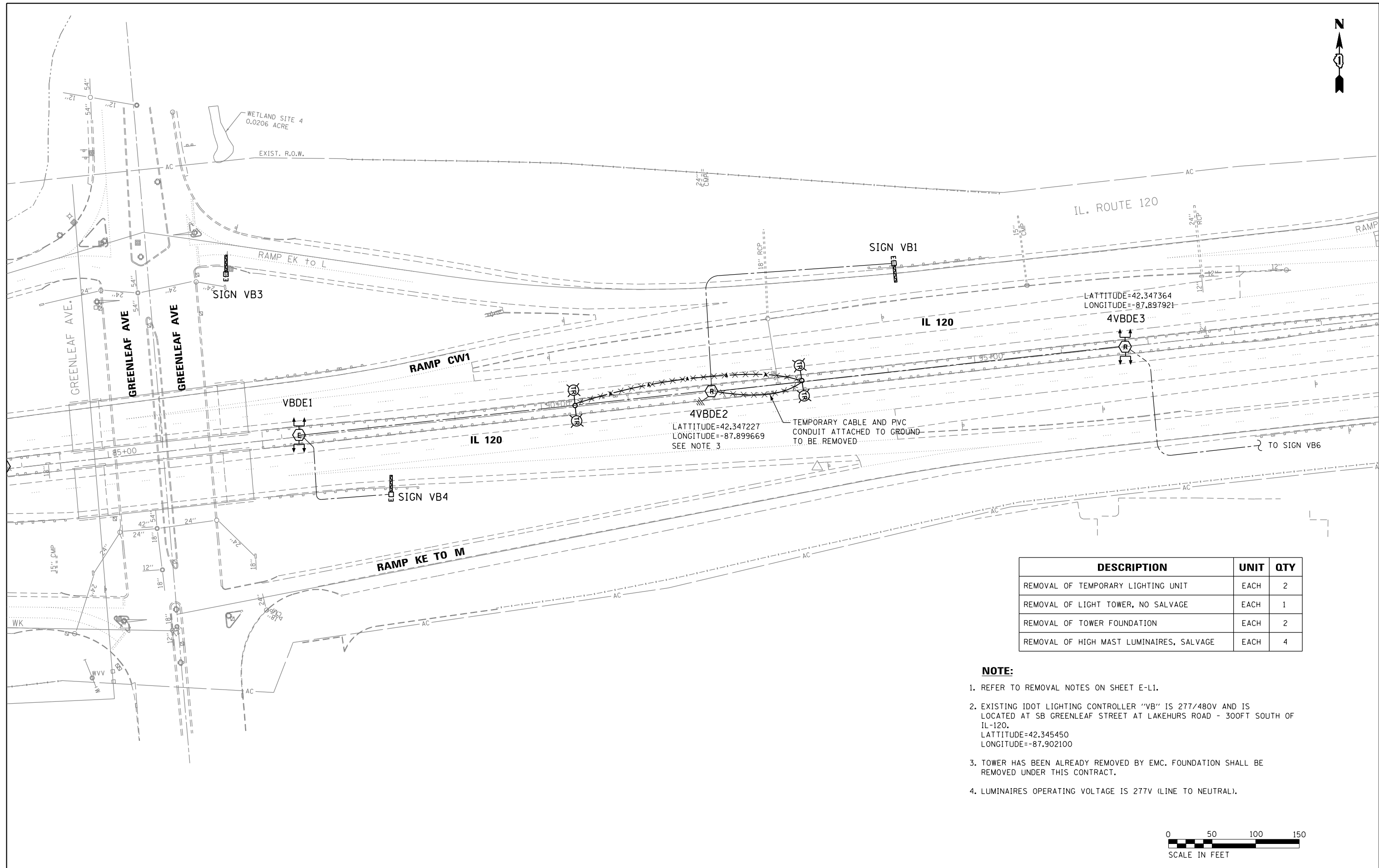
SYMBOL LEGEND:

- 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

	USER NAME = kkhan	DESIGNED - HM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SYMBOLS LEGEND, GENERAL NOTES AND REMOVAL NOTES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 100.0000' / 1in.	CHECKED - HS	REVISED -			333	12(VB-1&2) & 12R-1HB-2(BR)	LAKE	288	75	
PLOT DATE = 2/6/2017	DATE - 12-09-2016	REVISED -	SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 60X40					
						ILLINOIS FED. AID PROJECT					



DESCRIPTION	UNIT	QTY
REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	2
REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	1
REMOVAL OF TOWER FOUNDATION	EACH	2
REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	4

NOTE:

- REFER TO REMOVAL NOTES ON SHEET E-L1.
- EXISTING IDOT LIGHTING CONTROLLER "VB" IS 277/480V AND IS LOCATED AT SB GREENLEAF STREET AT LAKEHURS ROAD - 300FT SOUTH OF IL-120.
LATTITUDE=42.345450
LONGITUDE=-87.902100
- TOWER HAS BEEN ALREADY REMOVED BY EMC. FOUNDATION SHALL BE REMOVED UNDER THIS CONTRACT.
- LUMINAIRES OPERATING VOLTAGE IS 277V (LINE TO NEUTRAL).



 DELTA ENGINEERING GROUP, LLC	USER NAME = kghan	DESIGNED - HM	REVISED -
	PLOT SCALE = 100.0000' / in.	DRAWN - GJ	REVISED -
	PLOT DATE = 2/6/2017	CHECKED - HS	REVISED -
		DATE - 12-09-2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

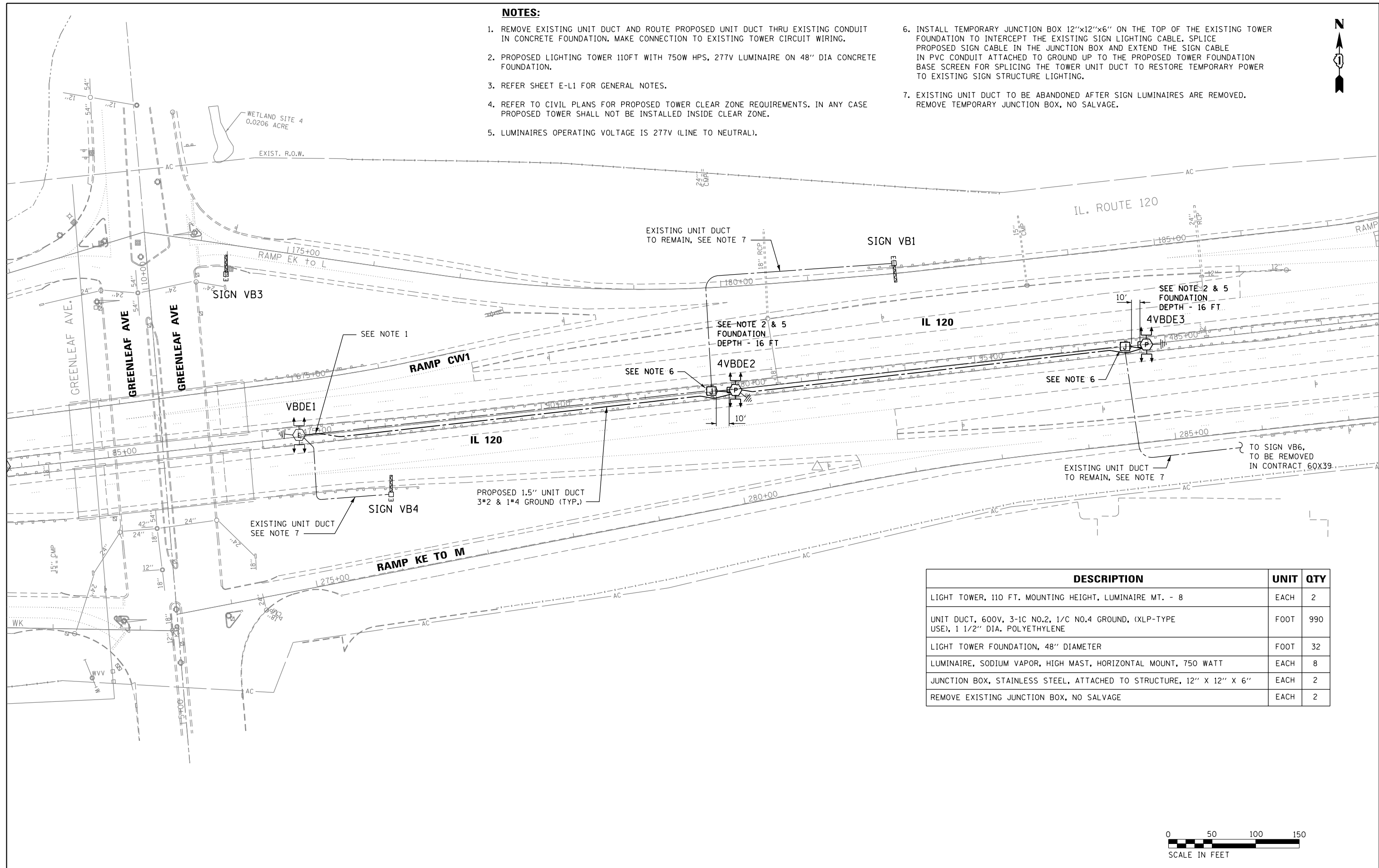
**LIGHTING REMOVAL PLAN
IL 120 / GREENLEAF ROAD - SHEET 1 OF 1**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	12(VB-1&2) & 12R-1HB-2(BR)	LAKE	288	76
CONTRACT NO. 60X40				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

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



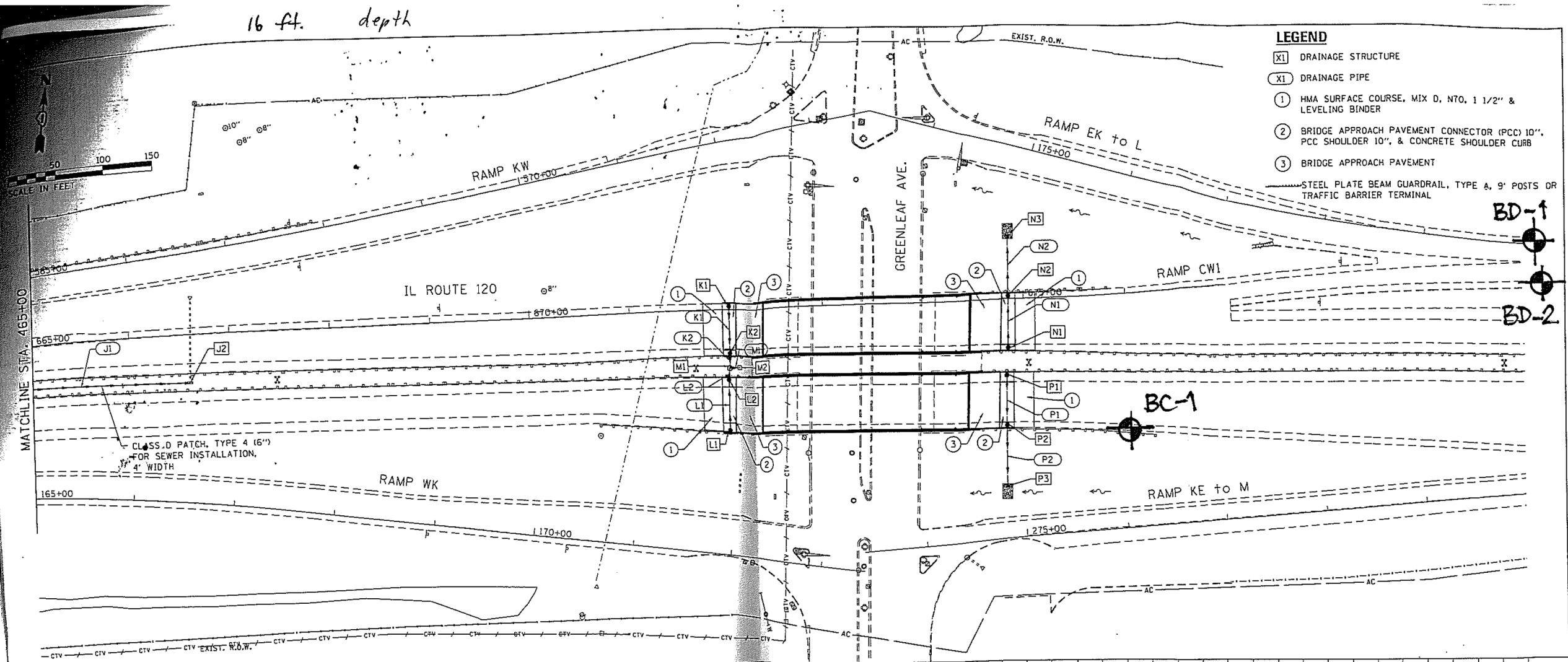
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	DRAWN - GJ	REVISED -
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PLOT DATE = 3/14/2017	DATE - 12-09-2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

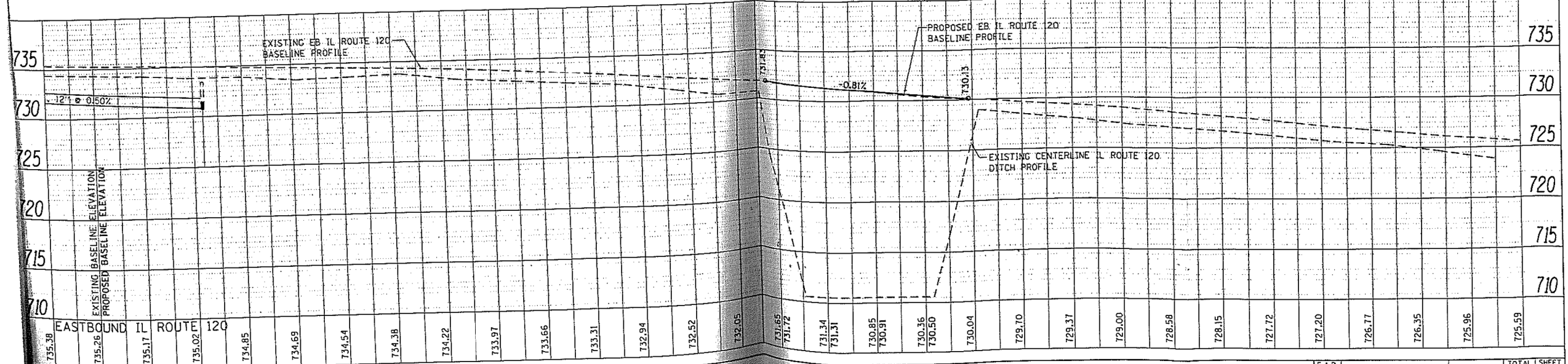
**PROPOSED LIGHTING PLAN
IL 120 / GREENLEAF ROAD - SHEET 1 OF 1**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	12(VB-1&2) & 12R-1HB-2(BR)	LAKE	288	77
			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



- LEGEND**
- [X1] DRAINAGE STRUCTURE
 - (X1) DRAINAGE PIPE
 - ① HMA SURFACE COURSE, MIX D, N70, 1 1/2" & LEVELING BINDER
 - ② BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) 10", PCC SHOULDER 10", & CONCRETE SHOULDER CURB
 - ③ BRIDGE APPROACH PAVEMENT
 - STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS OR TRAFFIC BARRIER TERMINAL



735.38	735.26	735.17	735.02	734.85	734.69	734.54	734.38	734.22	733.97	733.66	733.31	732.94	732.52	732.05	731.65	731.72	731.34	731.31	730.85	730.91	730.36	730.50	730.04	729.70	729.37	729.00	728.58	728.15	727.72	727.20	726.77	726.35	725.96	725.59
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<p>DELTA ENGINEERING GROUP, LLC 250 N. Meigs Road Suite 200 Chicago, Illinois 60631</p>	USER NAME = kghan	DESIGNED - JO	REVISED -
		DRAWN - ED	REVISED -
		CHECKED - RS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 120 OVER CP RR, GREENLEAF AVE. AND RAMPS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLAN AND PROFILE		342	12(VB-1&2) & 12R-1(B-2&3R)	LAKE	62	15
		SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 60X40		
				ILLINOIS FED. AID PROJECT		

<p>DELTA ENGINEERING GROUP, LLC</p>	USER NAME = kghan	DESIGNED - HM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 120 /GREENLEAF AVENUE SOIL BORING LOCATIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - GJ	REVISED -			333	12(VB-1&2) & 12R-1(B-2(BR))	LAKE	288	78	
		CHECKED - HS	REVISED -			CONTRACT NO. 60X40					
	PLOT SCALE = 100.0000' / 1" =					SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			
	PLOT DATE = 2/6/2017	DATE = 12-09-2016	REVISED -								



SOIL BORING LOG

Page 1 of 2

Date 10/8/14

ROUTE FAP 342 DESCRIPTION Illinois Route 120 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 _____

BORING NO. BC-1
Station 676+00
Offset 66.00ft RT. CL
Ground Surface Elev. 728.52 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)
Hot-Mix Asphalt Shoulder				Hard Brown SILTY CLAY (continued)			
				5			
				9	6.7	18	
				13	B		
726.52				6			
	3			11	7.7	19	
	3	3.4	13	16	B		
	6	B					
-5				5			
	3			9	8.6	18	
	4	2.0	18	14	B		
	5	B					
	4			4			
	7	3.8	23	7	5.6	19	
	7	B		11	B		
-10				3			
	2			7	5.2	19	
	5	3.3	19	10	B		
	5	B					
716.52							
	2						
	3	0.8	18				
	2	B					
714.02							
	2			4			
	6	3.7	11	9	3.8	14	
	9	B		13	B		
	7						
710.02				8	3.0	10	
	24	B					
709.02							
-20							

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)



SOIL BORING LOG

Page 2 of 2

Date 10/8/14

ROUTE FAP 342 DESCRIPTION Illinois Route 120 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 _____

BORING NO. BC-1
Station 676+00
Offset 66.00ft RT. CL
Ground Surface Elev. 728.52 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)
Stiff Gray SILTY CLAY (continued)			
	3		
	5	2.0	15
687.02	7	B	
End of Boring			

S:\SIS\GEO\TECH\PROGRAMS\GINT\PROJECTS\LAKE\ILLINOIS ROUTE 120 OVER GREENLEAF.GPJ 10/17/14

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)




USER NAME = kghan	DESIGNED - HM	REVISED -
	DRAWN - GJ	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - HS	REVISED -
PLOT DATE = 2/6/2017	DATE - 12-09-2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 120 /GREENLEAF AVENUE SOIL BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	12(VB-1&2) & 12R-1HB-2(BR)	LAKE	288	79
CONTRACT NO. 60X40				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2
Date 10/16/14

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 _____

BORING NO. BD-1
Station 168+15
Offset 1.00ft RT BL
Ground Surface Elev. 722.07 ft


DEPTH H S	BLOW S Qu	UCS (tsf)	MOIST S (%)	Surface Water Elev. _____ ft				DEPTH H S	BLOW S Qu	UCS (tsf)	MOIST S (%)
				Stream Bed Elev. _____ ft							
Hot-Mix Asphalt Pavement								4			
Hard Brown SILTY CLAY								10	7.6	19	
								14	S @		15%
	4							5			
	6	5.7	13					9	5.3	21	
	6	B						12	B		
Driller's Note: Possible cobble @ 5'								-25			
	8							5			
	7		13					8	5.6	22	
	9							10	B		
	4							5			
	5	2.5	16					6	4.7	19	
	9	P						8	B		
Very Stiff Black/Gray/Brown Mottled SILTY CLAY								-30			
	4							3			
	5	3.2	22					6	2.8	21	
	6	B						9	B		
	5							689.07			
	6	1.3	14	Stiff Brown LOAM							
	6	P									
Hard Brown SILTY CLAY								-35			
	3							4			
	4	3.7	18					8	1.3	15	
	6	B						14	B		
	4							684.07			
	9	6.2	20	Stiff Gray SILTY CLAY							
	13	B									
	-20							-40			

Surface Water Elev. _____ ft

Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 687.1 ft ▼
Upon Completion DRY ft
After _____ Hrs. N/A ft

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)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2
Date 10/16/14

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 _____

BORING NO. BD-1
Station 168+15
Offset 1.00ft RT BL
Ground Surface Elev. 722.07 ft

DEPTH H S	BLOW S Qu	UCS (tsf)	MOIST S (%)	Surface Water Elev. _____ ft				DEPTH H S	BLOW S Qu	UCS (tsf)	MOIST S (%)
				Stream Bed Elev. _____ ft							
Stiff Gray SILTY CLAY (continued)								4			
								5	1.5	16	
								5	B		
End of Boring								680.57			
								-45			
								-50			
								-55			
								-60			

Surface Water Elev. _____ ft

Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 687.1 ft ▼
Upon Completion DRY ft
After _____ Hrs. N/A ft

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)



SOIL BORING LOG

Date 10/6/14

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 _____

BORING NO. BD-2
Station 168+10
Offset 40.00ft LT BL
Ground Surface Elev. 721.57 ft

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(ft)
(/6")
(tsf)
(%)

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter 681.6 ft
Upon Completion 680.6 ft
After N/A Hrs. N/A ft

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(ft)
(/6")
(tsf)
(%)

Hard Brown SILTY CLAY

			17
4			
5	4.8	14	
6	B		
-5			
4			
5	4.3	15	
6	B		

Grades to Stiff in Strenght and Consistency

4			
5	1.5	20	
7	B		

Very Stiff Gray SILTY CLAY

8			
6	3.9	16	
8	B		

Hard Brown SILTY CLAY

-15			
5			
7	8.4	20	
14	B		
6			
9	5.7	22	
11	B		

Hard Brown SILTY CLAY (continued)

4			
6	4.6	23	
10	B		

Medium Stiff Brown SILTY LOAM

-30			
2			
4	0.7	23	
4	B		

Stiff Gray SILTY CLAY

-35			
2			
3	1.4	15	
4	B		

Medium Dense Brown Coarse SAND

-40			

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)

S:\SS\GEO TECH PROGRAMS\GINT\PROJECTS\LAKE\ILLINOIS ROUTE 120 OVER GREENLEAF.GPJ 10/17/14



SOIL BORING LOG

Date 10/6/14

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 _____

BORING NO. BD-2
Station 168+10
Offset 40.00ft LT BL
Ground Surface Elev. 721.57 ft

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(ft)
(/6")
(tsf)
(%)

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter 681.6 ft
Upon Completion 680.6 ft
After N/A Hrs. N/A ft

Medium Dense Brown Coarse SAND (continued)

4			
7		22	
10			

End of Boring

S:\SS\GEO TECH PROGRAMS\GINT\PROJECTS\LAKE\ILLINOIS ROUTE 120 OVER GREENLEAF.GPJ 10/17/14

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)



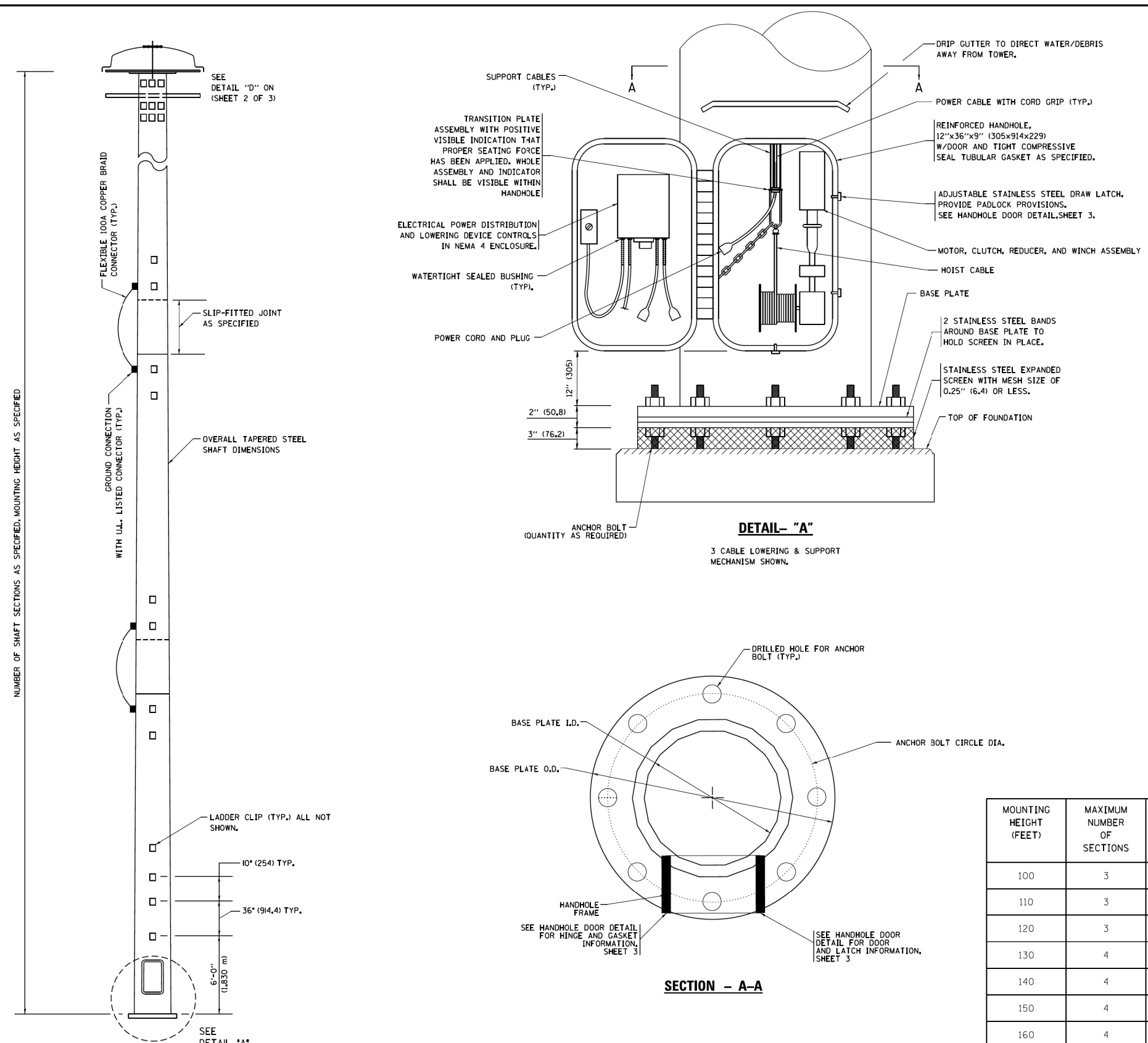
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DRAWN - GJ	REVISED -	
PLOT SCALE = 100.0000' / in.	CHECKED - HS	REVISED -
PLOT DATE = 2/6/2017	DATE - 12-09-2016	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IL 120 / GREENLEAF AVENUE SOIL BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	12(VB-1&2) & 12R-1HB-2(BR)	LAKE	288	81
CONTRACT NO. 60X40				
ILLINOIS FED. AID PROJECT				



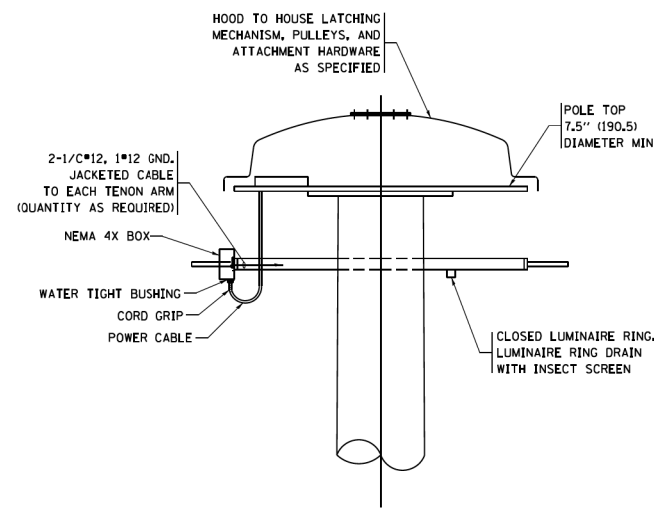
- NOTES:**
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 - THE DESIGN SHALL BE BASED UPON AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS, HOWEVER THE WIDTH OF REINFORCED OPENING REQUIREMENT IN CHAPTER 5, SECTION 5.6.6.1 SHALL NOT APPLY. LIGHT TOWERS SHALL BE DESIGNED FOR ADT > 10,000, RISK CATEGORY TYPICAL, AND FATIGUE IMPORTANCE CATEGORY I.
 - A MINIMUM TOTAL COMBINED LUMINAIRE WEIGHT OF 600 LB (272 KG) SHALL BE USED PLUS A COMBINED HOOD AREA AND LOWERING RING WEIGHT OF 400 LB (181 KG), THE ASSOCIATED TOTAL PROJECTED AREA SHALL BE 24 SQ FT (2.23 SQ M) AND 10 SQ FT (0.93 SQ M) RESPECTIVELY.
 - ALL TOWER SHAFT COMPONENTS, INCLUDING, BUT NOT LIMITED TO THE SHAFT SECTIONS, BASE PLATE, LADDER CLIPS, HANDHOLE DOOR, HANDHOLE REINFORCING, RAIN GUTTER, AND BASE PLATE, SHALL BE FABRICATED FROM HIGH-STRENGTH, LOW ALLOY, STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI (345 K PA) ACCORDING TO AASHTO M 270 (ASTM A 572 GR50)
 - THE ELECTRIC MOTOR, MOTOR GEAR REDUCER, WINCH DRUM ASSEMBLY AND AUTOMATIC SHUTOFF SWITCH OF THE LOWERING DEVICE SHALL BE ACCESSIBLE FROM THE FRONT OF THE TOWER FOR EASY REMOVAL AND MAINTENANCE. ALL COMPONENTS SHALL BE REMOVABLE THROUGH THE HANDHOLE.
 - THE LIGHT TOWER SHAFT SHALL HAVE LADDER CLIPS. CLIPS SHALL BEGIN 6 FT. (1.8 m) ABOVE THE BASE PLATE WITH ALTERNATE 36 INCH (900) AND 10 INCH (250) SPACING THEREAFTER, FOR THE ENTIRE LENGTH, THE TOP 10 FT. (3 m) OF THE POLE SHAFT SHALL HAVE 3 SETS OF CLIPS. EACH SET OF CLIPS SHALL BE 120 DEGREES APART. CLIPS SHALL BE 0.25 X 2 INCHES (6 X 50) WELDED TO THE SHAFT TO PRODUCE A SLOT 0.625 INCHES (15.9) DEEP AND 1.625 INCHES (41.3) LONG. THE TOP INSIDE EDGE SHALL BE CHAMFERED.
 - A COPPER BONDING JUMPER SHALL BOND SLIP-FIT POLE SECTIONS TOGETHER WITH A FLAT COPPER MESH AND STAINLESS STEEL GROUND LUGS.
 - ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
 - THE ENTIRE TOWER INCLUDING THE SHAFT, HANDHOLE, HANDHOLE DOOR, BASE PLATE AND ALL OTHER ELEMENTS WELDED TO THE SHAFT SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 (ASTM A 123). THE LUMINAIRE RING SHALL BE PRIMED AND PAINTED AS SPECIFIED OR BE STAINLESS STEEL.
 - ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.
 - THE LIGHT TOWER SHALL BE STRAIGHT AND CENTERED ON ITS LONGITUDINAL AXIS, UNDER NO-WIND CONDITIONS, SO WHEN EXAMINED WITH A TRANSIT FROM ANY DIRECTION, THE DEVIATION FROM THE NORMAL SHALL NOT EXCEED 1/8 IN. IN 3 FT (2 mm IN 1 m) WITHIN ANY 5 FT (1.5 m) OF HEIGHT, WITH TOTAL DEVIATION NOT TO EXCEED 3 IN. (75) FROM THE VERTICAL AXIS THROUGH THE CENTER OF THE POLE BASE.
 - PVC CONDUIT WILL NOT BE ALLOWED FOR ANY LIGHT TOWER COMPONENT.
 - COUNTER WEIGHTS TO BE INCLUDED AS A PART OF THE LIGHT TOWER PAY ITEM.

LIGHT TOWER DIMENSIONS

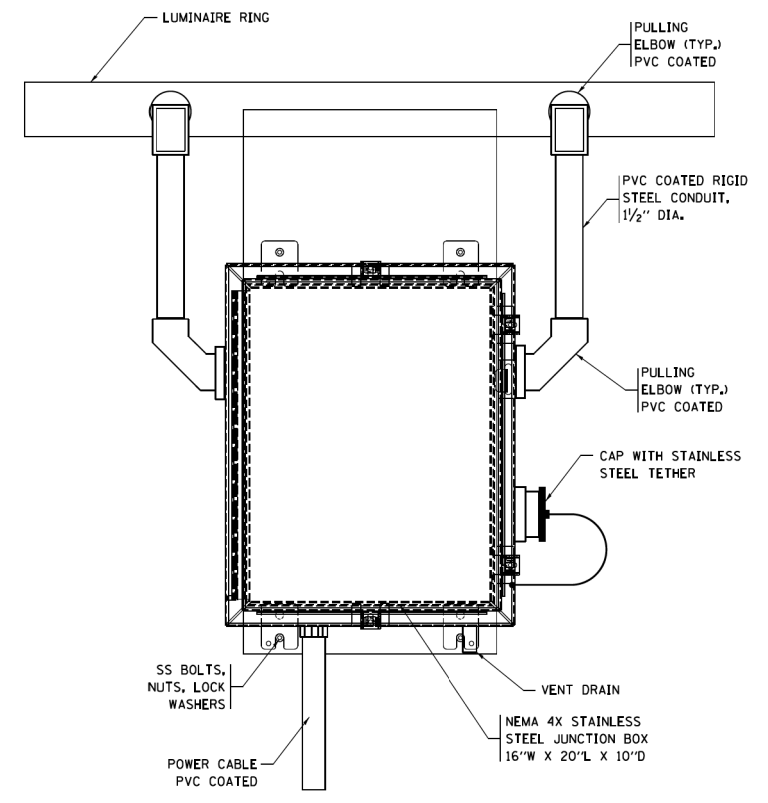
MOUNTING HEIGHT (FEET)	MAXIMUM NUMBER OF SECTIONS	MINIMUM NUMBER OF ANCHOR RODS	MINIMUM TOWER TOP DIAMETER (INCHES)	MINIMUM TOWER BOTTOM DIAMETER (INCHES)	MINIMUM ROD DIAMETER (INCHES)	MINIMUM ANCHOR ROD CIRCLE (INCHES)
100	3	8	7.5	24	1.5	30
110	3	8	7.5	24	1.5	30
120	3	8	7.5	26	1.75	36
130	4	8	7.5	28	1.75	36
140	4	8	7.5	28	1.75	36
150	4	8	7.5	30	2.25	38
160	4	8	7.5	32	2.25	38

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - R, TOMSONS 09-02-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGH MAST LIGHT TOWER 100 FT TO 160 FT (30 m TO 49 m)		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLT SCALE = 50.0000' / 1"	PLT DATE = 7/27/2016	CHECKED -	REVISED - R, TOMSONS 02-27-13		SCALE:	SHEET 1 OF 3 SHEETS	STA.	BE-500		CONTRACT NO.	
Default		DATE -	REVISED - R, TOMSONS 04-29-16				ILLINOIS FED. AID PROJECT				
			REVISED - R, TOMSONS 07-26-16								

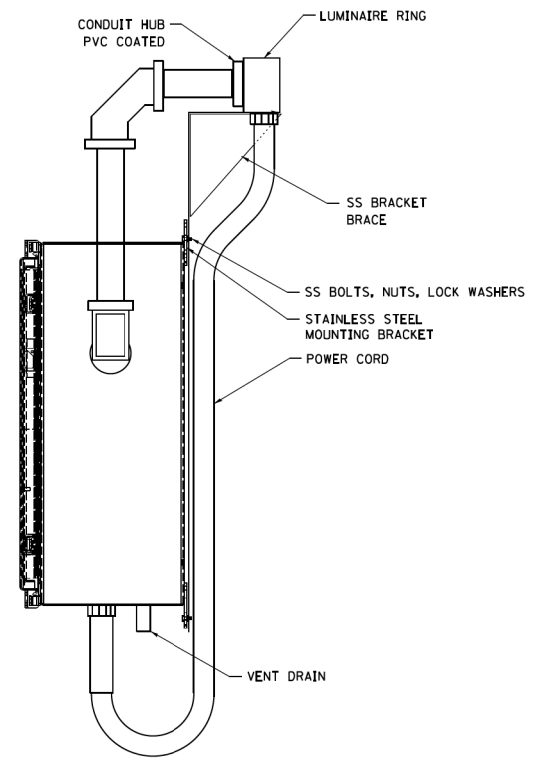
	USER NAME = kghan	DESIGNED - HM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IDOT STANDARD DETAIL		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLT SCALE = 100.0000' / 1"	CHECKED - HS	REVISED -		SCALE: NONE	SHEET OF SHEETS	STA.	333 12(VB-1&2) & 12R-1HB-2(BR)		LAKE	288 82
	PLT DATE = 2/6/2017	DATE - 12-09-2016	REVISED -						CONTRACT NO. 60X40		ILLINOIS FED. AID PROJECT



DETAIL-D

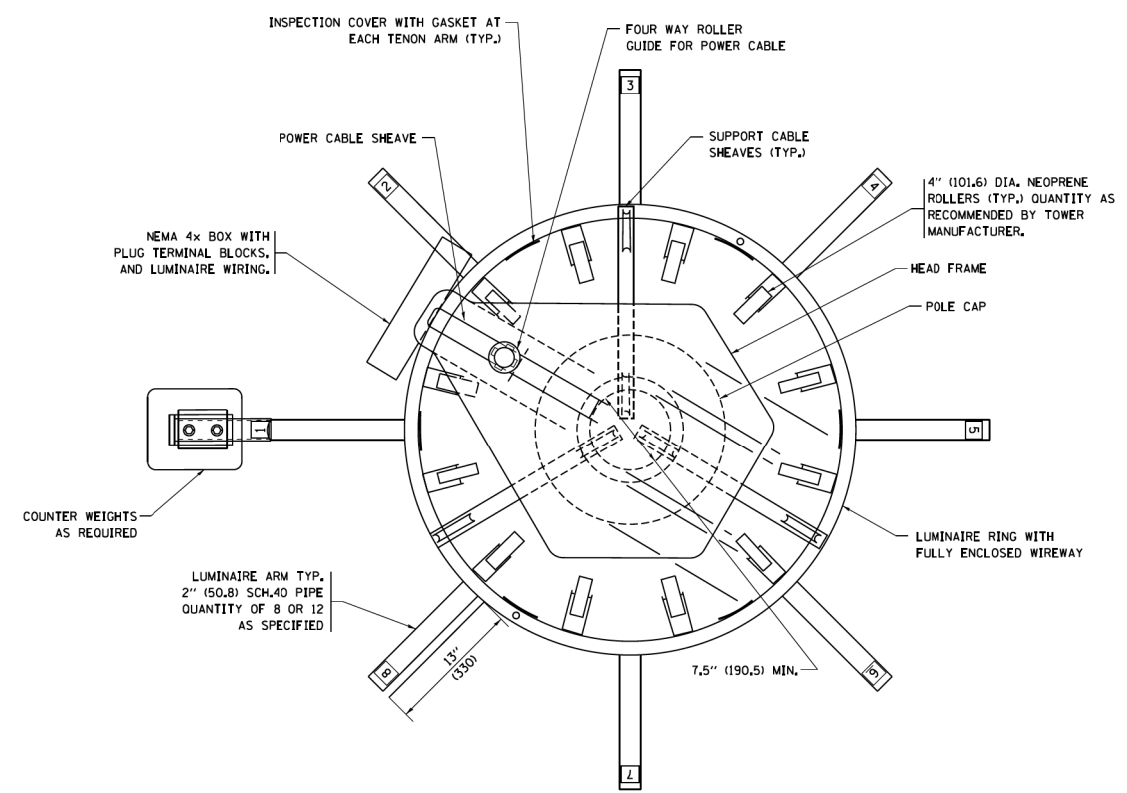


**FRONT VIEW
N.T.S.**



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

LUMINAIRE RING TERMINAL BOX



NOTES:

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

FILE NAME =	USER NAME = foatemj	DESIGNED -	REVISED - R. TOMSONS 09-02-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGH MAST LIGHT TOWER		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw2\11\854EBID\TEG\Illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\Drawn\CAD\Detail\CADsheets\be500.dgn	Drawn	CHECKED -	REVISED - R. TOMSONS 02-27-13		100 FT TO 160 FT (30 m TO 49 m)							
Default	PLOT SCALE = 50.0000' / 1"	DATE -	REVISED - R. TOMSONS 04-29-16		SCALE:	SHEET 2 OF 3 SHEETS	STA.					
	PLOT DATE = 7/27/2016		REVISED - R. TOMSONS 07-26-16									

4:00 AM 7/27/2016 10:22:29 AM User:foatemj

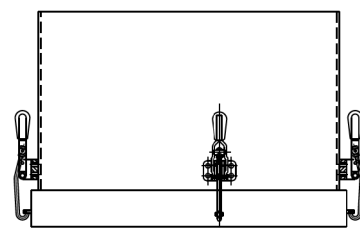


USER NAME = kghan	DESIGNED - HM	REVISED -
Drawn	CHECKED - HS	REVISED -
PLOT SCALE = 100.0000' / 1"	DATE - 12-09-2016	REVISED -
PLOT DATE = 2/6/2017		

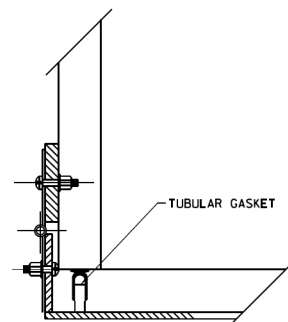
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

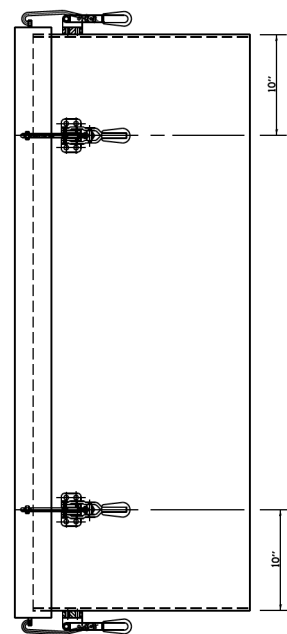
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	12(VB-1&2) & 12R-1HB-2(BR)	LAKE	288	83
CONTRACT NO. 60X40				
ILLINOIS FED. AID PROJECT				



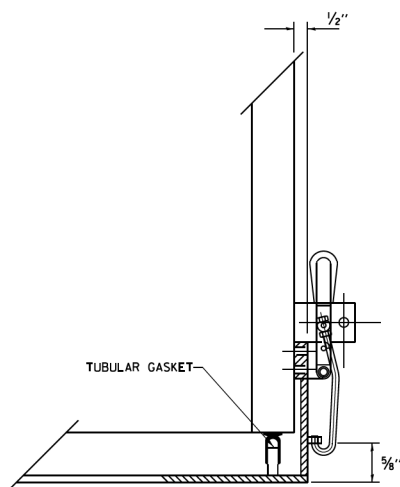
TOP VIEW



HINGE DETAIL

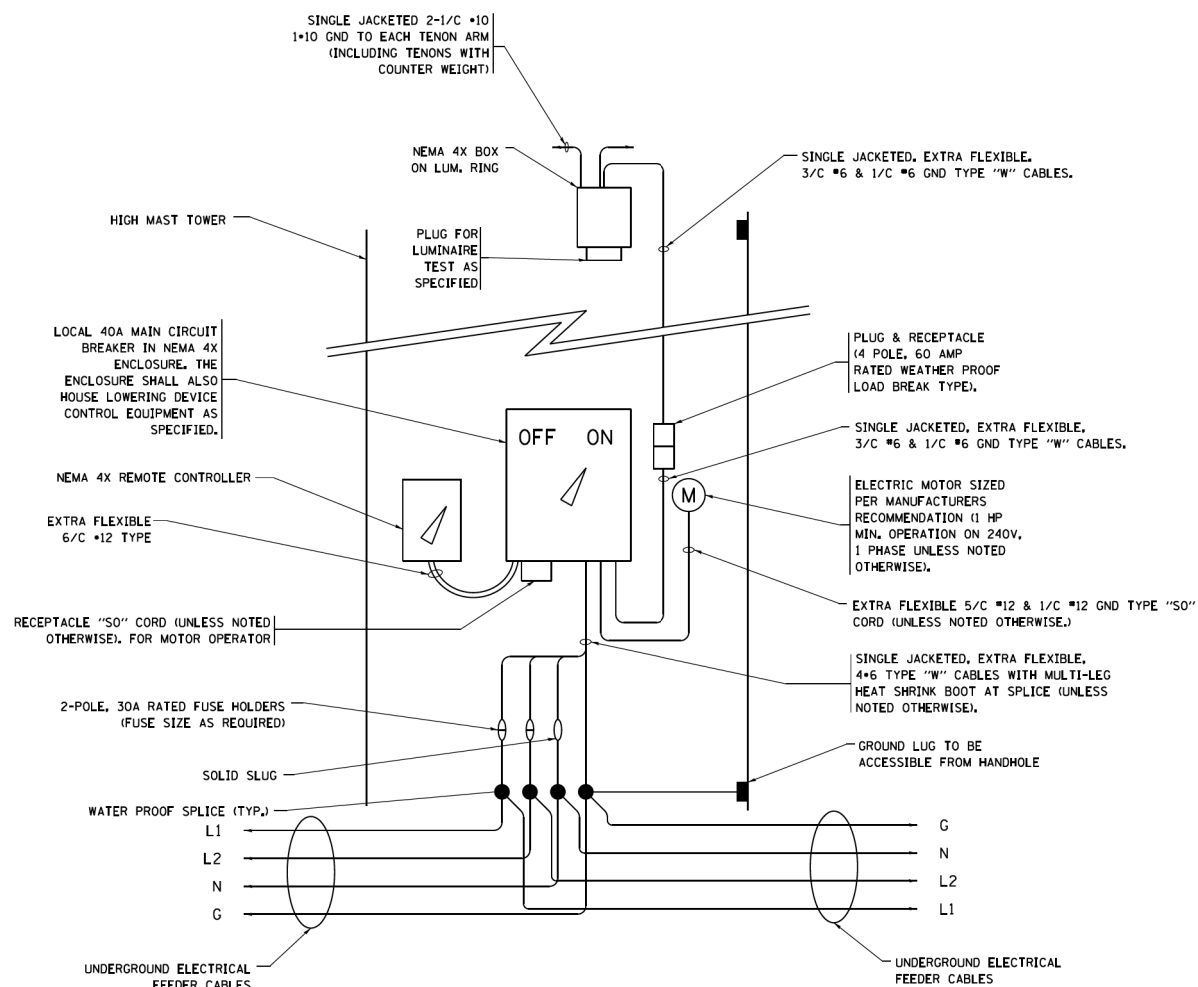


SIDE VIEW

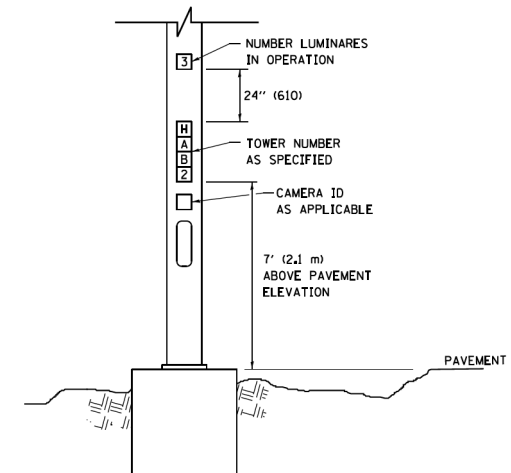


LATCH DETAIL

HANDHOLE DOOR DETAILS



HIGH MAST POLE WIRING DIAGRAM



LIGHT TOWER NUMBERING DETAIL

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - R, TOMSONS 09-02-10
p:\w\11084EBID\INTEG\Illinois.gov\FWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\Drawings\CADD\Sheet\CADsheets\be580.dgn		DRAWN -	REVISED - R, TOMSONS 02-27-13
Default	PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED - R, TOMSONS 04-29-16
	PLOT DATE = 7/27/2016	DATE -	REVISED - R, TOMSONS 07-26-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER	
100 FT TO 160 FT (30 m TO 49 m)	
SCALE:	SHEET 3 OF 3 SHEETS STA. TO STA.

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



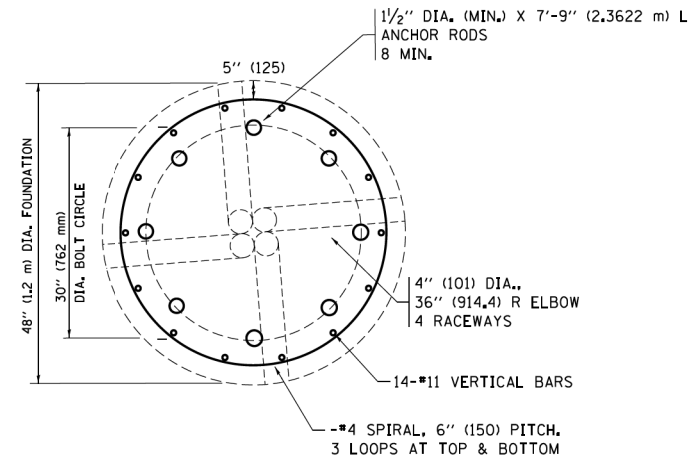
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PLOT DATE = 2/6/2017		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

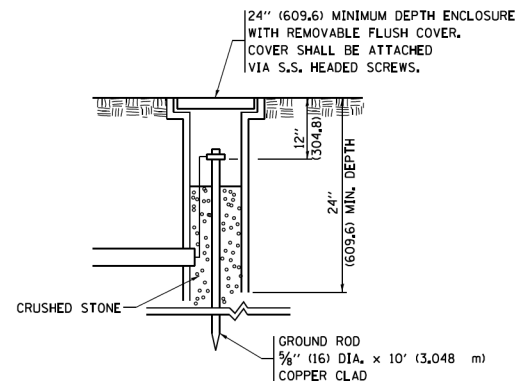
IDOT STANDARD DETAIL	
SCALE: NONE	SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X40			ILLINOIS FED. AID PROJECT	

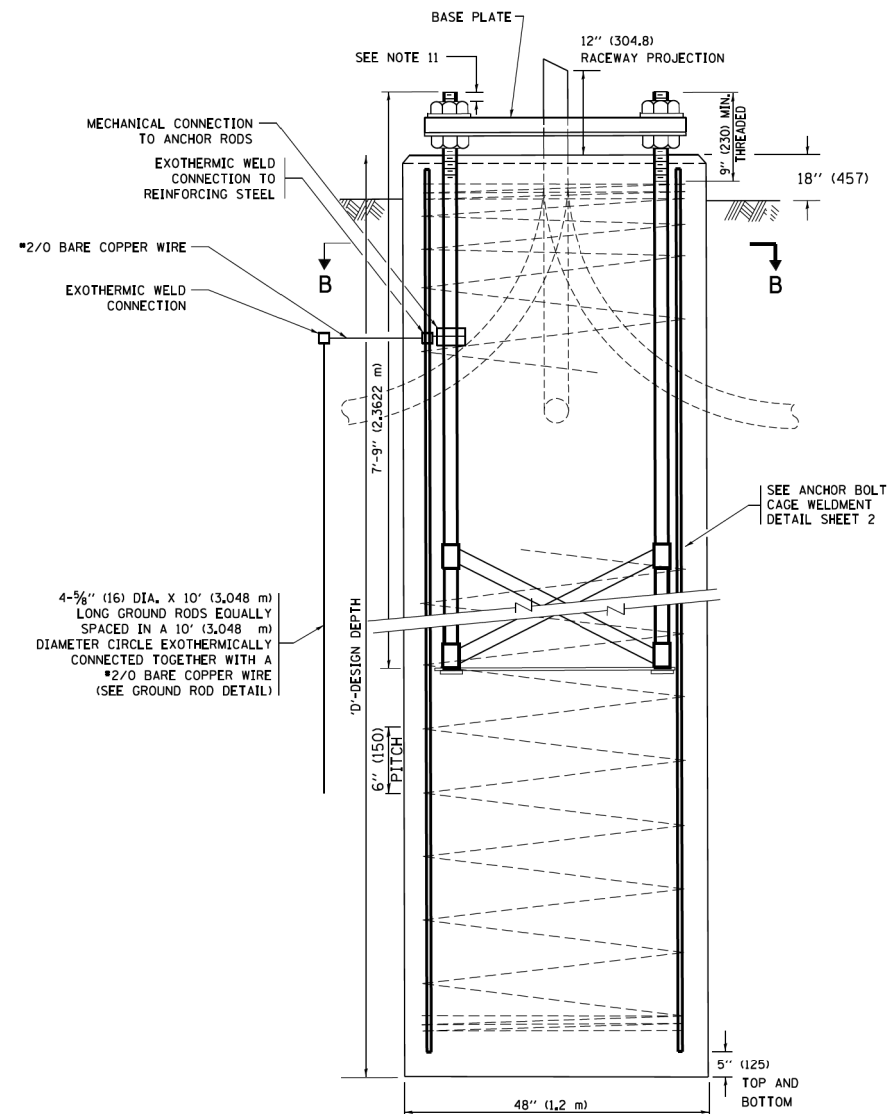
SHAFT LENGTH (D) TABLE				
SOIL CONSISTENCY		AVERAGE STRENGTH	LIGHT TOWER MOUNTING HEIGHT	
		Qu In tsf (Qu In kPa)	100 FT. (30 m)	110 FT. (34 m)
COHESIVE	SOFT	<0.5 (<50)	22'-6" (6.9 m)	24'-0" (7.2 m)
	MEDIUM	0.5 TO 1 (50 TO 100)	18'-6" (6.9 m)	19'-0" (5.8 m)
	STIFF	1 TO 2 (100 TO 200)	15'-6" (4.7 m)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



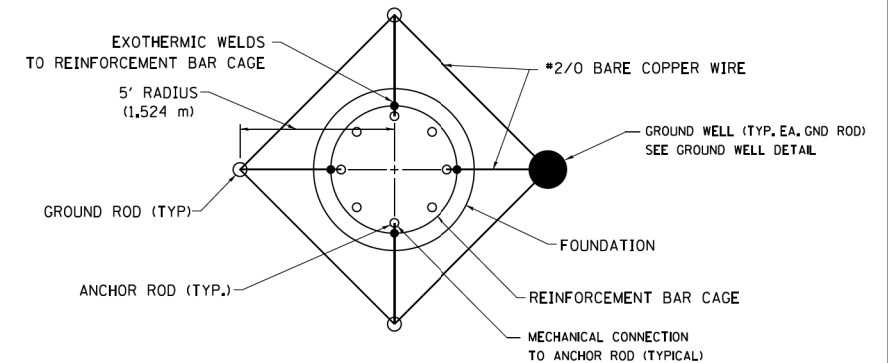
SECTION-B-B



GROUND WELL DETAIL



FOUNDATION ELEVATION



GROUND ROD DETAIL

- DESIGN NOTES**
- ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
 - THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
 - THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
 - THE TOP OF THE FOUNDATION TO 18" (457) BELOW GRADE SHALL BE FORMED.
 - SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
 - THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
 - ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9.
 - ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
 - REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
 - TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.
 - A MINIMUM OF THREE FULL THREADS SHALL REMAIN EXPOSED AFTER LIGHT TOWER IS INSTALLED.
 - ALL GROUNDING INDICATED IN THE PLANS SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
 - CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
 - ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
 - COORDINATE THE ROD CIRCLE DIAMETER OF THE TOWER WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
 - THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.

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	PLOT DATE = 7/27/2016	DATE -	REVISED - R. TOMSONS 07-27-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER
100 FT TO 110 FT (30 m TO 34 m) FOUNDATION DETAIL

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-501			
ILLINOIS FED. AID PROJECT			CONTRACT NO.	

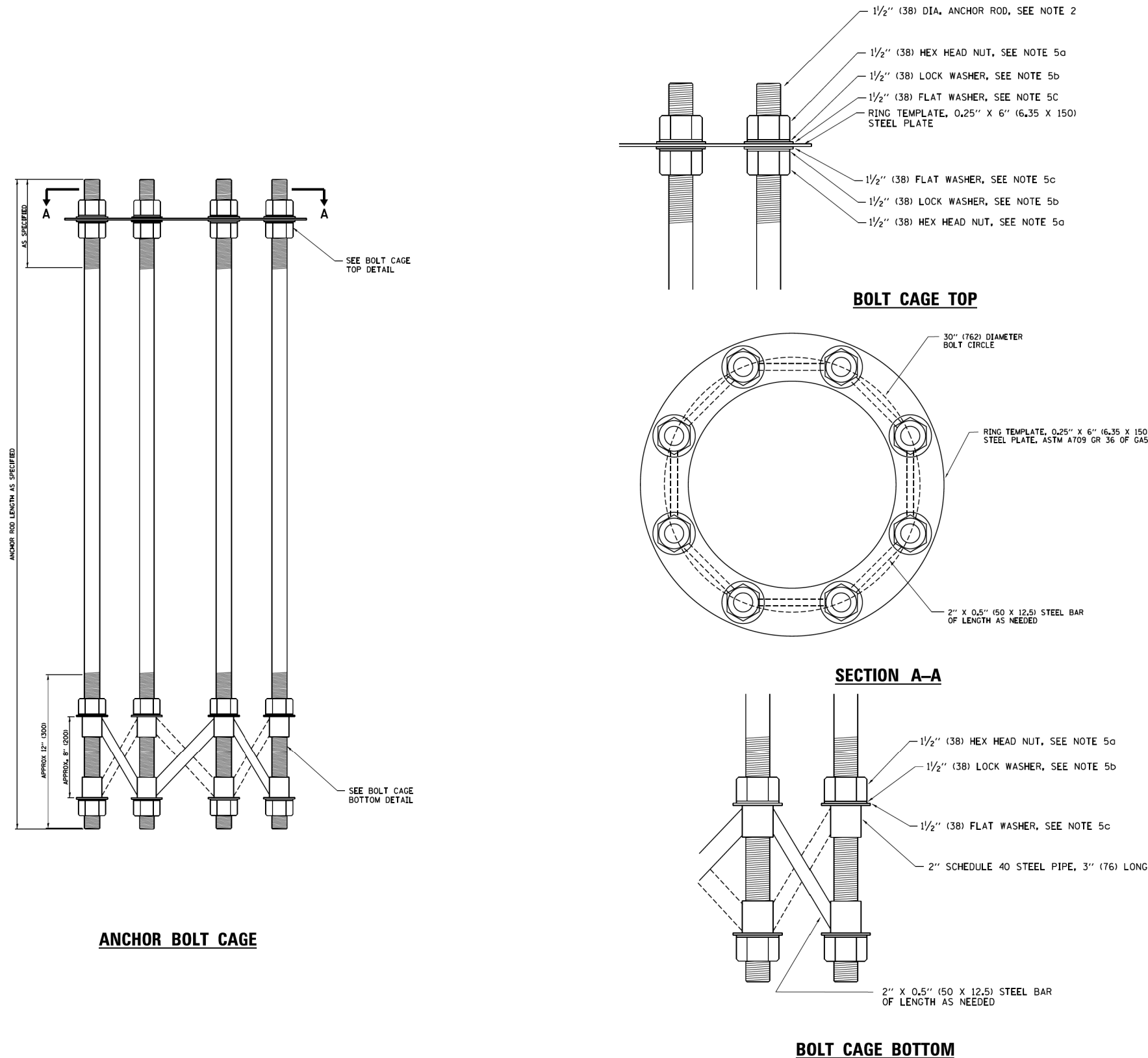


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	12(VB-1&2) & 12R-1HB-2(BR)	LAKE	288	85
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X40	



NOTES:

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

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	PLOT DATE = 7/27/2016	DATE -	REVISED - R. TOMSONS 04-29-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER
100 FT TO 110 FT (30 m TO 34 m) FOUNDATION DETAIL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-501			
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

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



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








STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

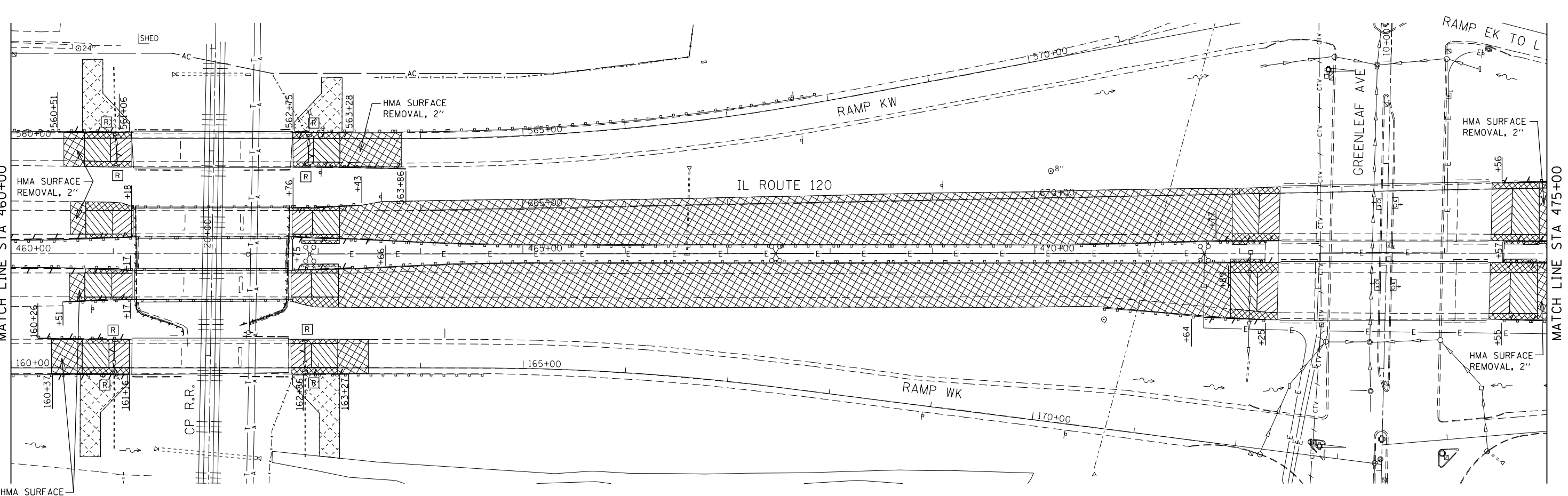
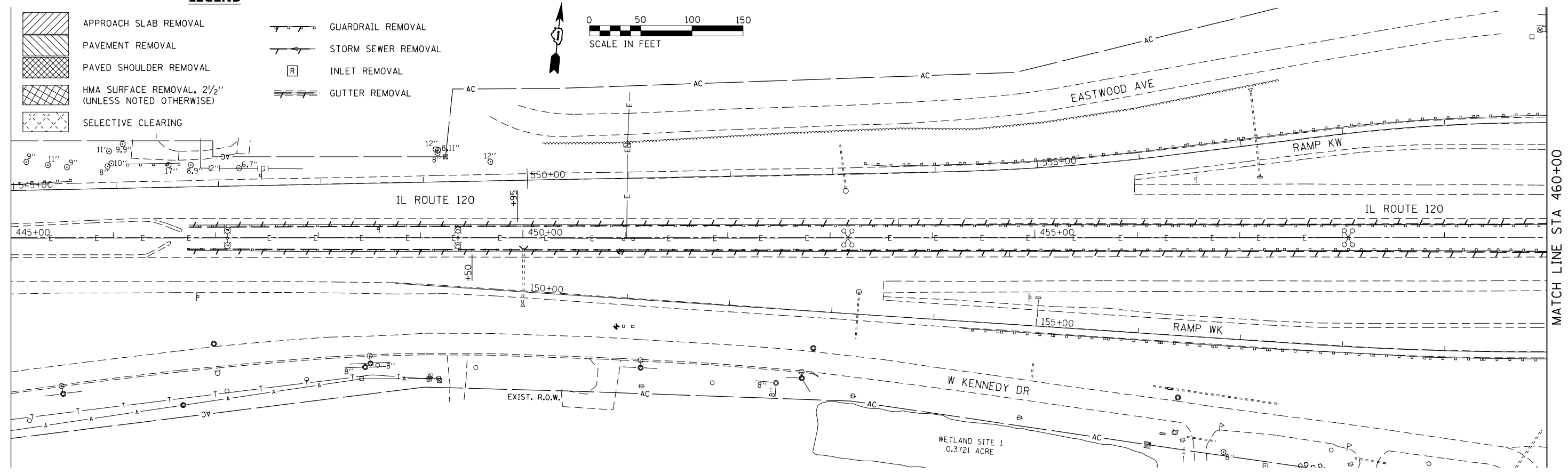
IDOT STANDARD DETAIL

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	12(VB-1&2) & 12R-1HB-2(BR)	LAKE	288	86
CONTRACT NO. 60X40			ILLINOIS FED. AID PROJECT	

LEGEND

-  APPROACH SLAB REMOVAL
-  PAVEMENT REMOVAL
-  PAVED SHOULDER REMOVAL
-  HMA SURFACE REMOVAL, 2 1/2" (UNLESS NOTED OTHERWISE)
-  SELECTIVE CLEARING
-  GUARDRAIL REMOVAL
-  STORM SEWER REMOVAL
-  INLET REMOVAL
-  GUTTER REMOVAL



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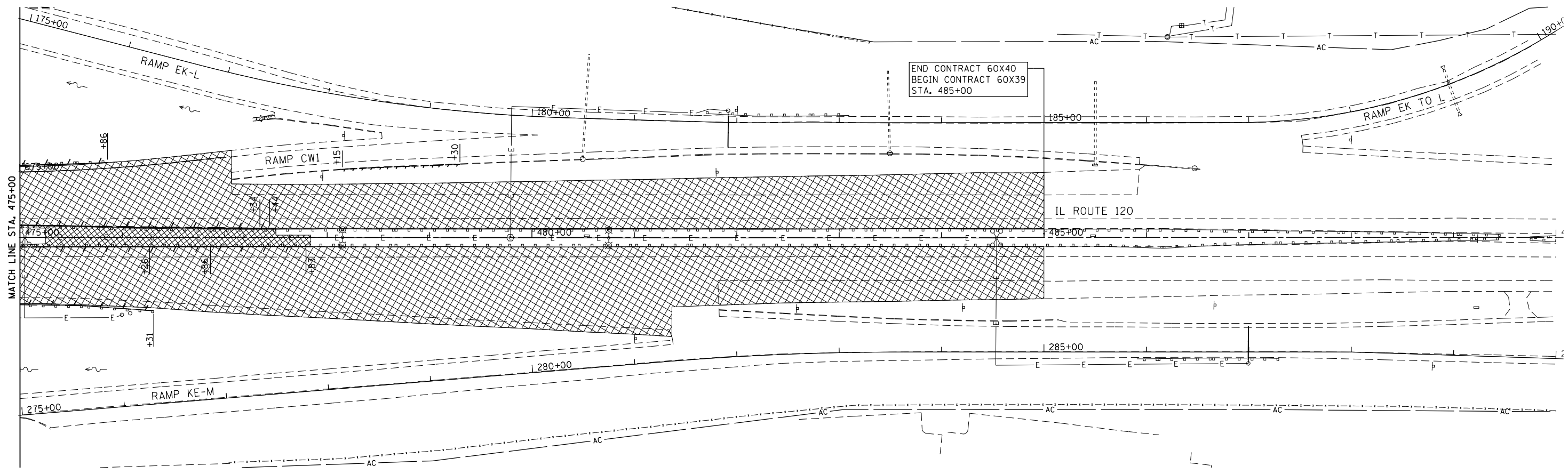
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 120 OVER CP RR, GREENLEAF STREET, AND RAMPS
REMOVAL PLAN**

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 445+00 TO STA. 475+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	LAKE	288	87
*12(VB-1&2)&12R-1(B-2)(BR)&12-RS-2		CONTRACT NO. 60X40		
ILLINOIS FED. AID PROJECT				



LEGEND

- APPROACH SLAB REMOVAL
- PAVEMENT RMOVAL
- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 2"
- GUARDRAIL REMOVAL
- CURB & GUTTER REMOVAL
- STORM SEWER REMOVAL
- INLET REMOVAL



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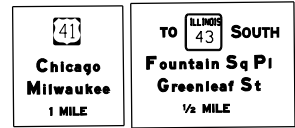
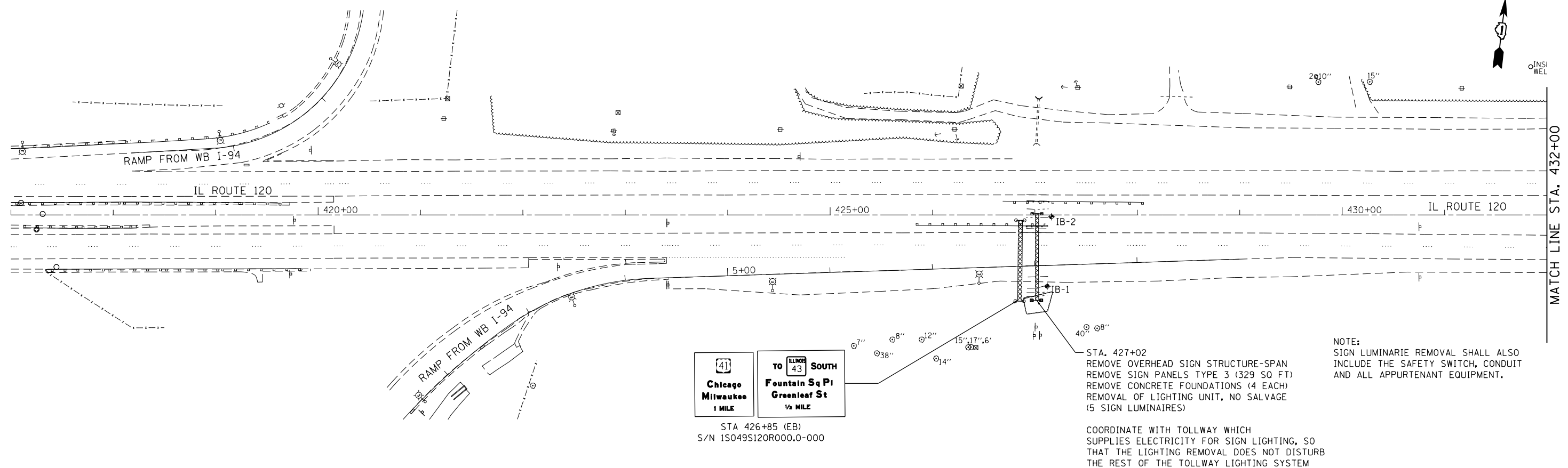
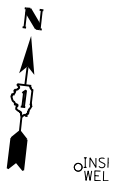
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET, AND RAMPS
REMOVAL PLAN

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. 475+00 TO STA. 490+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	*	LAKE	288	88
*12(VB-1&2)&12R-1(B-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



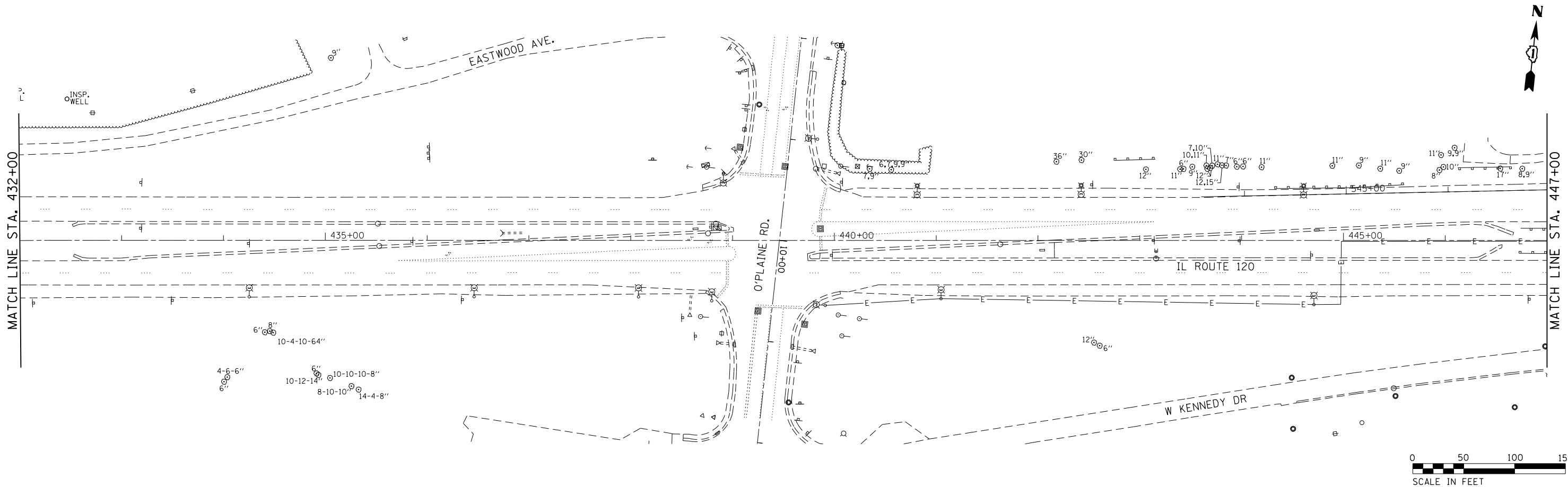
STA 426+85 (EB)
S/N 1S049S120R000.0-000

STA. 427+02
REMOVE OVERHEAD SIGN STRUCTURE-SPAN
REMOVE SIGN PANELS TYPE 3 (329 SQ FT)
REMOVE CONCRETE FOUNDATIONS (4 EACH)
REMOVAL OF LIGHTING UNIT, NO SALVAGE
(5 SIGN LUMINAIRES)

NOTE:
SIGN LUMINARIE REMOVAL SHALL ALSO
INCLUDE THE SAFETY SWITCH, CONDUIT
AND ALL APPURTENANT EQUIPMENT.

COORDINATE WITH TOLLWAY WHICH
SUPPLIES ELECTRICITY FOR SIGN LIGHTING, SO
THAT THE LIGHTING REMOVAL DOES NOT DISTURB
THE REST OF THE TOLLWAY LIGHTING SYSTEM

MATCH LINE STA. 432+00



MATCH LINE STA. 432+00

MATCH LINE STA. 447+00



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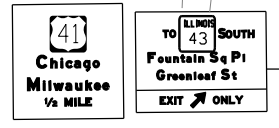
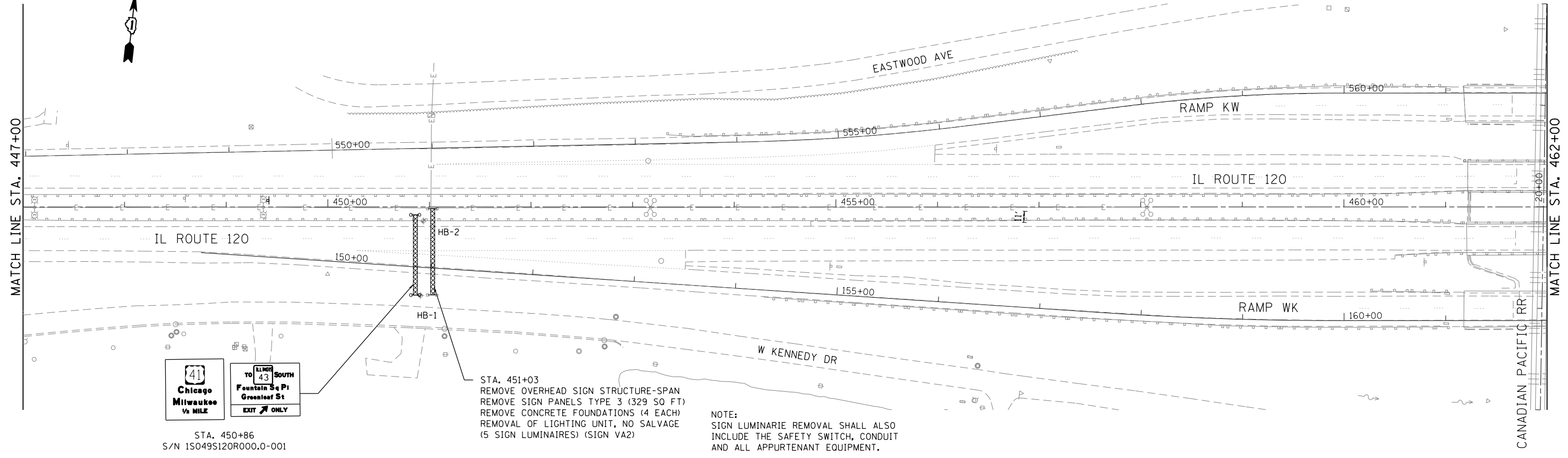
GR&E
8501 N. Higgins Road Suite 280
Chicago, Illinois 60631
(773) 399-0112

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 120 OVER CP RR, GREENLEAF STREET, AND RAMPS
SIGNING**
SCALE: 1"=50' SHEET 2 OF 4 SHEETS STA. TO STA.

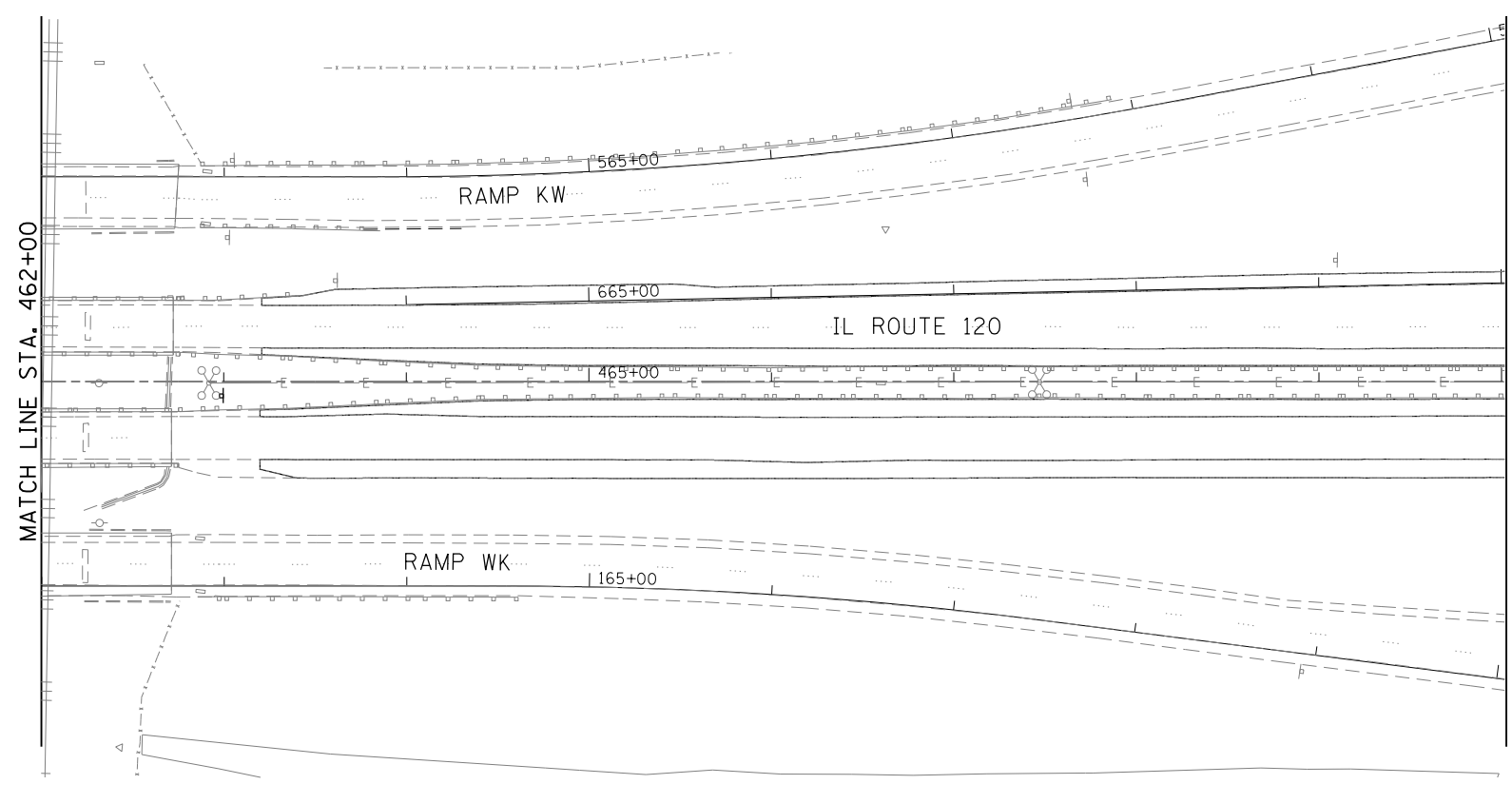
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	*	LAKE	288	90
*12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



STA. 450+86
S/N 1S049S120R000.0-001

STA. 451+03
REMOVE OVERHEAD SIGN STRUCTURE-SPAN
REMOVE SIGN PANELS TYPE 3 (329 SQ FT)
REMOVE CONCRETE FOUNDATIONS (4 EACH)
REMOVAL OF LIGHTING UNIT, NO SALVAGE
(5 SIGN LUMINAIRES) (SIGN VA2)

NOTE:
SIGN LUMINARIE REMOVAL SHALL ALSO
INCLUDE THE SAFETY SWITCH, CONDUIT
AND ALL APPURTENANT EQUIPMENT.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

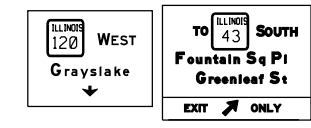
**IL ROUTE 120 OVER CP RR, GREENLEAF STREET, AND RAMPS
SIGNING**
SCALE: 1"=50' SHEET 3 OF 4 SHEETS STA. 447+00 TO STA. 470+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	*	LAKE	288	91
*12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

STA. 174+34
 REMOVE OVERHEAD SIGN STRUCTURE-CANTILEVER
 REMOVE SIGN PANEL TYPE 3 (215 SQ FT)
 REMOVE CONCRETE FOUNDATION (1 EACH)
 REMOVAL OF LIGHTING UNIT, NO SALVAGE (3 SIGN LUMINAIRES)
 EXISTING SIGN STRUCTURE 1C049S120L000.0-002 (SIGN VB3)

STA. 181+99
 REMOVE OVERHEAD SIGN STRUCTURE-CANTILEVER
 REMOVE SIGN PANEL TYPE 3 (305 SQ FT)
 REMOVE CONCRETE FOUNDATION (1 EACH)
 REMOVAL OF LIGHTING UNIT, NO SALVAGE (4 SIGN LUMINAIRES)
 EXISTING SIGN STRUCTURE 1C049S120L000.0-001 (SIGN VB1)

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



STA 181+91.5
 S/N 1C049S120L000.0-001



STA 176+50 RT
 GROUND MOUNTED SIGN WITH BREAKAWAY WF STEEL POSTS



STA.476+08
 S/N 1C049S120R000.0-002

STA. 475+92
 REMOVE OVERHEAD SIGN STRUCTURE-CANTILEVER
 REMOVE SIGN PANEL TYPE 3 (158 SQ FT)
 REMOVE CONCRETE FOUNDATION (1 EACH)
 REMOVAL OF LIGHTING UNIT, NO SALVAGE (3 SIGN LUMINAIRES)
 EXISTING SIGN STRUCTURE 1C049S120R000.0-002 (SIGN VB4)

STA. 172+60
 REMOVE OVERHEAD SIGN STRUCTURE-CANTILEVER
 REMOVE SIGN PANEL TYPE 3 (215 SQ FT)
 REMOVAL OF LIGHTING UNIT, NO SALVAGE (3 SIGN LUMINAIRES) EXISTING SIGN STRUCTURE 1C049S120R000.0-000 (SIGN VB2)

STA 171+00 RT
 GROUND MOUNTED SIGN WITH BREAKAWAY WF STEEL POSTS



NOTE:
 SIGN LUMINARIE REMOVAL SHALL ALSO INCLUDE THE SAFETY SWITCH, CONDUIT AND ALL APPURTENANT EQUIPMENT.

CONCRETE FOUNDATION TO REMAIN FOR PROPOSED LIGHTING SYSTEM

MATCH LINE STA. 470+00

IL ROUTE 120

IL ROUTE 120

GREENLEAF AVE.

GREENLEAF AVE.

EXIST. R.O.W.

1175+00

RAMP EK-L

RAMP CW1

RAMP KE-M

1180+00

1280+00

1275+00

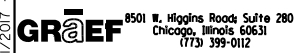
670+00

670+00

470+00

170+00

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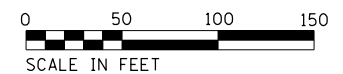


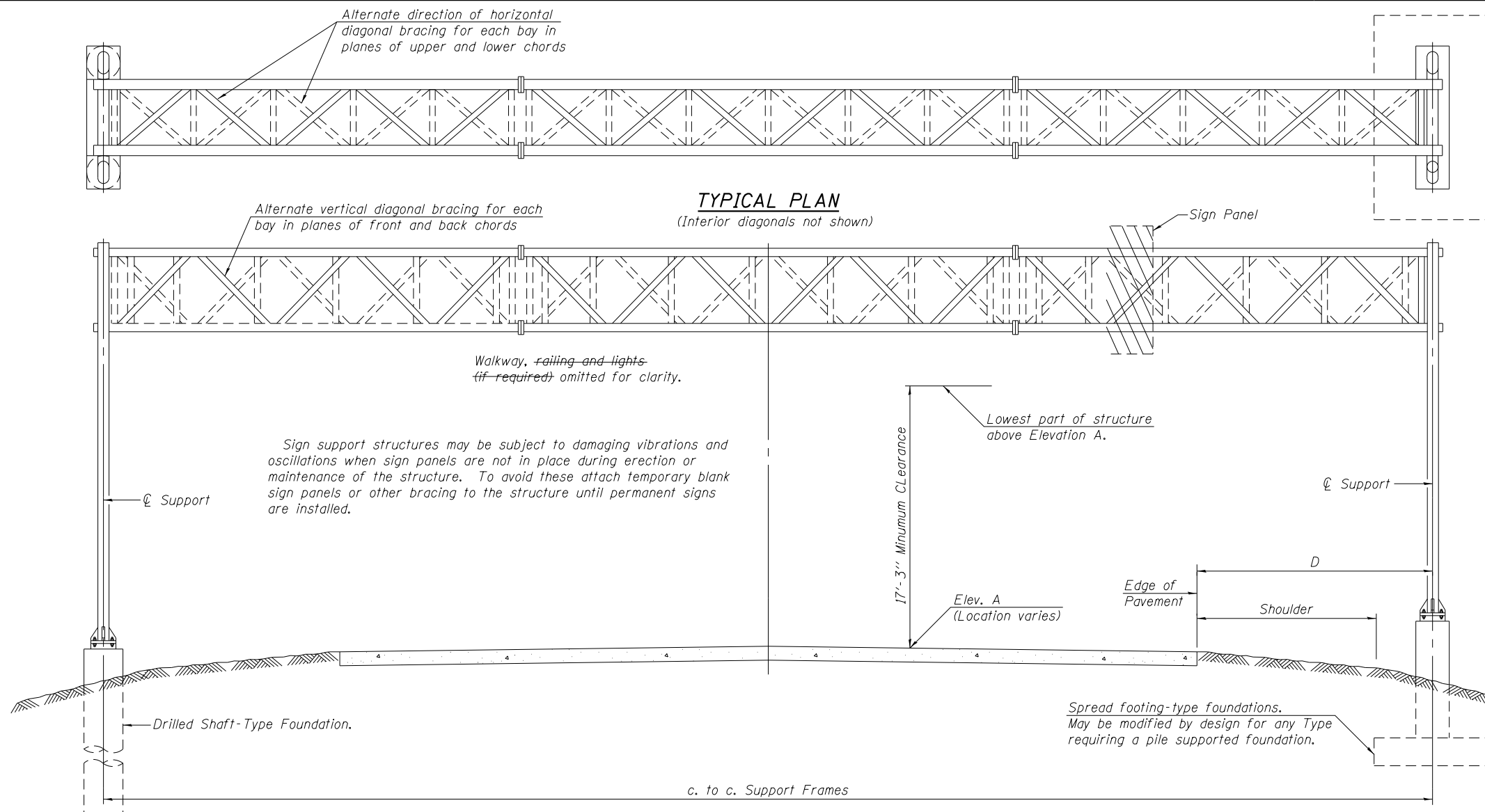
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 120 OVER CP RR, GREENLEAF STREET & RAMPS
 SIGNING
 SCALE: 1"=50' SHEET 4 OF 4 SHEETS STA. 470+00 TO STA. 485+00

F.A.P. RTE. 333 342	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 92
* 12(VB-1&2)&12R-1(HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				





GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f_c = 3,500 p.s.i.
f_y = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W. If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TYPICAL ELEVATION

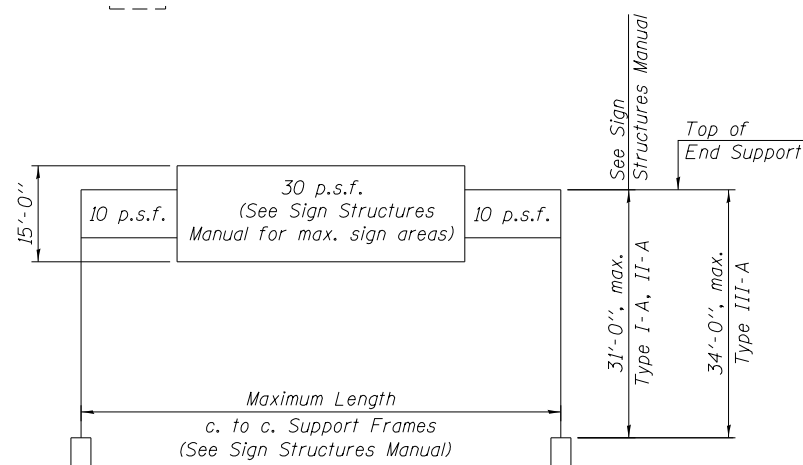
(Looking at Face of Signs)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area (sq. ft.)
IS049S120R000.0-000	426+85	III-A	79'-0"	751.34	12'-1"	11'-0"	297.0
IS049S120R000.0-001	450+86	III-A	79'-0"	718.93	11'-6"	12'-0"	318.5

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A (5'-0" x 7'-0")	Foot	158
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	21.48



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

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OS-A-1

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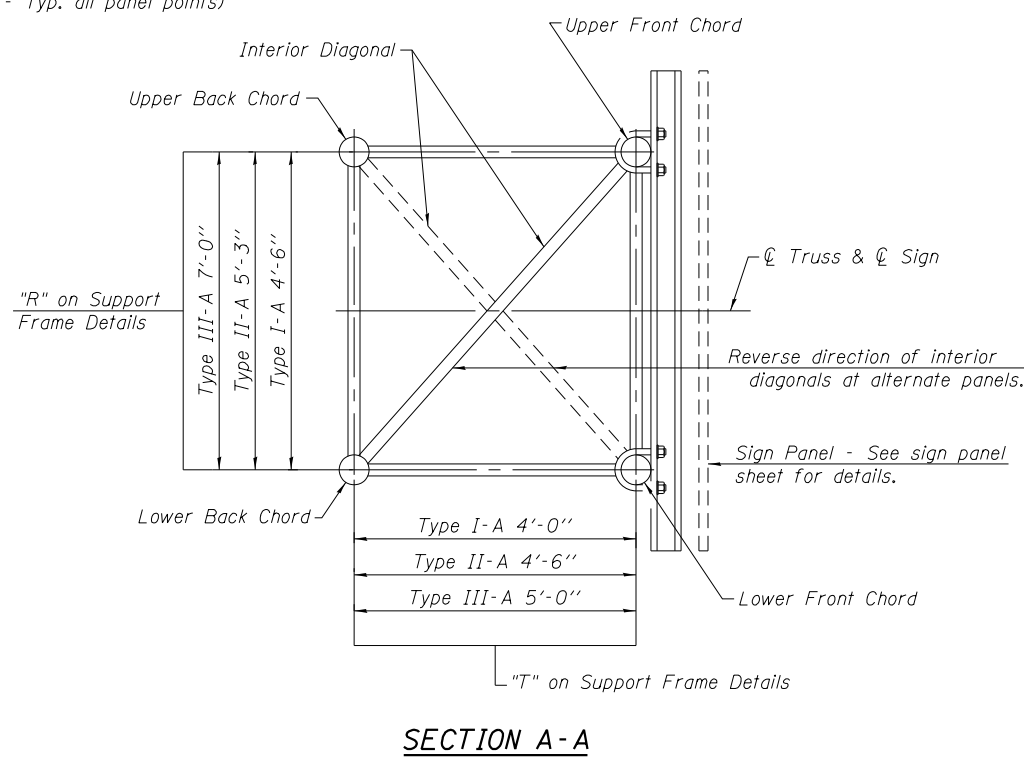
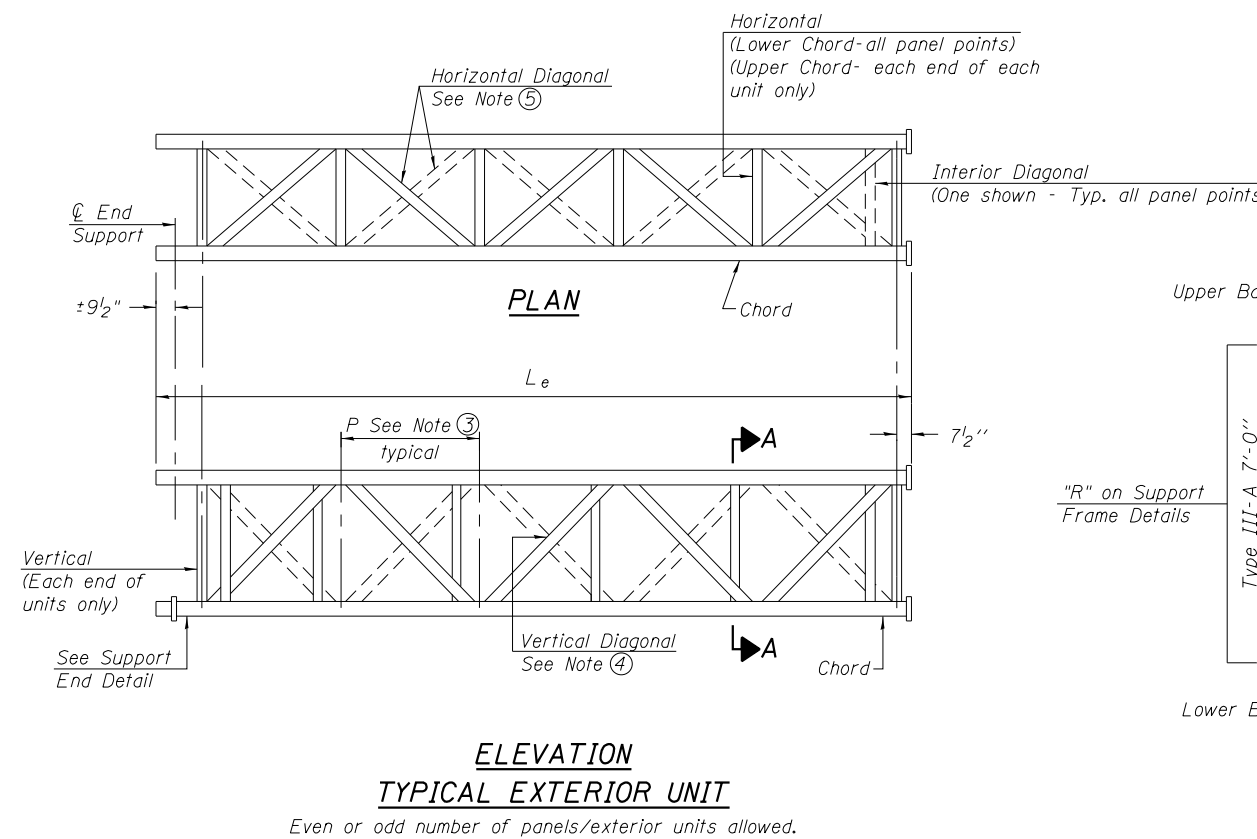
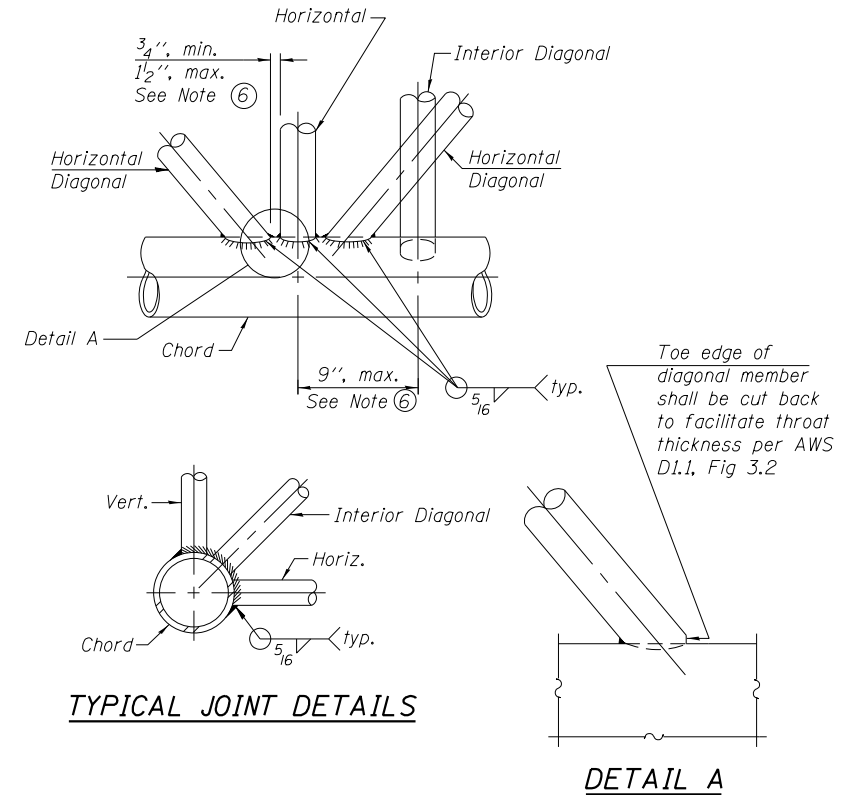
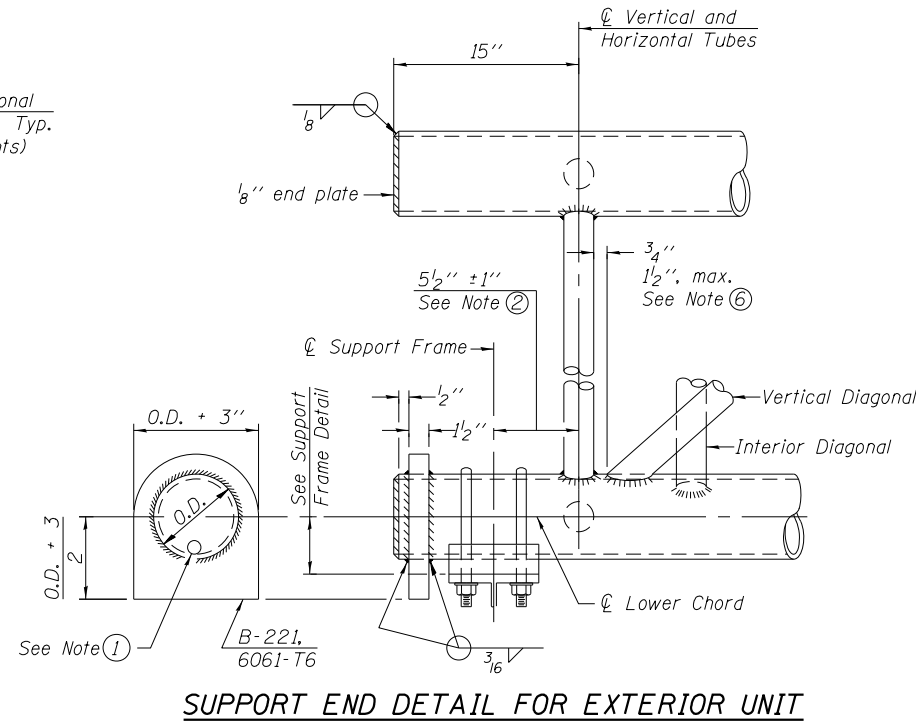
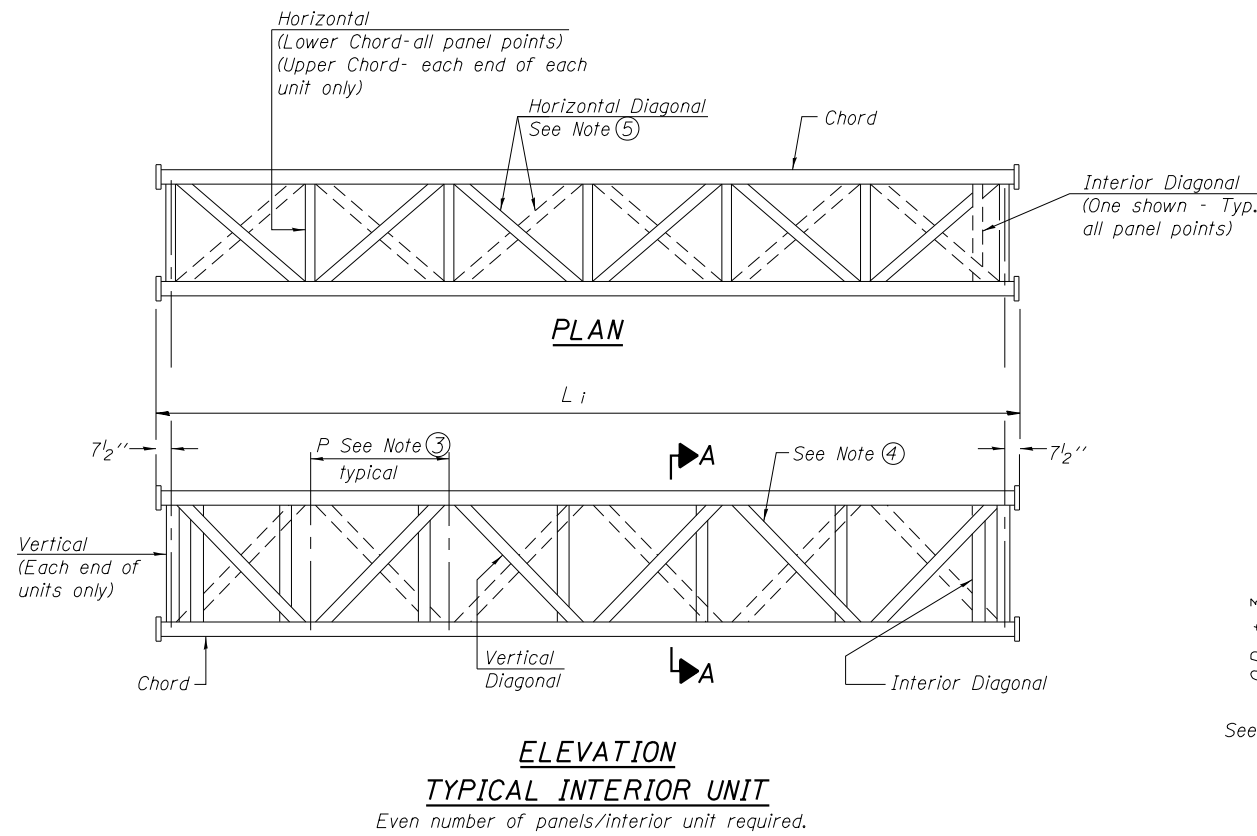
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	DATE - 08/26/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - GENERAL PLAN &
ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS**

SHEET NO. S1 OF 29 SHEETS

F.A.P. RTE. 333	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 93
*121VB-1&2&12R-1HB-21BR&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



NOTES

- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" φ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by ± 1" to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

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OS-A-2

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	DATE - 08/26/2015	REVISED -

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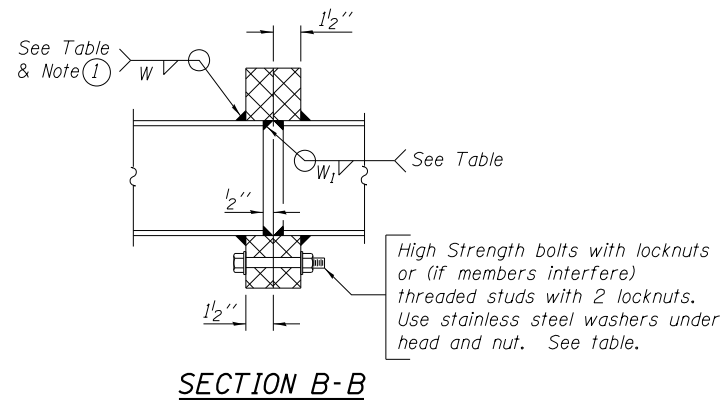
**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A**

SHEET NO. 52 OF 29 SHEETS

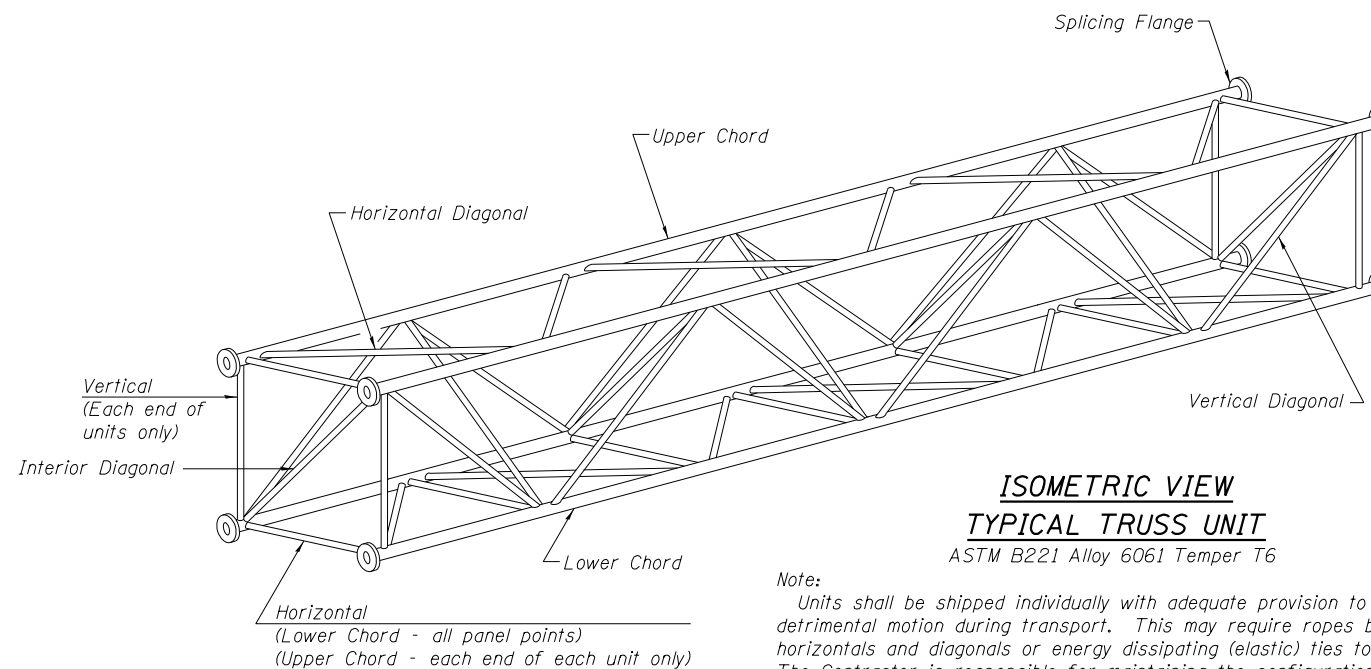
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	*	LAKE	288	94
*12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

TRUSS UNIT TABLE

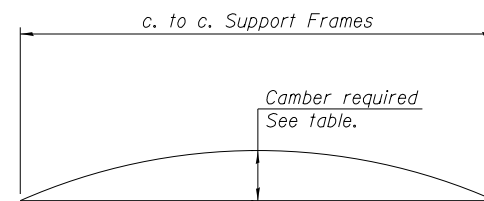
Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L _e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L _i)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W ₁		
ISO49S120R000.0-000	426+85	III-A	5	28'-10 1/4"	5'-4 3/4"	1	4	22'-10"	5'-4 3/4"	7"	5/16"	3 1/4"	5/16"	2 3/8"	6	1"	7/16"	5/16"	11 1/2"	15"
ISO49S120R000.0-001	450+86	III-A	5	28'-10 1/4"	5'-4 3/4"	1	4	22'-10"	5'-4 3/4"	7"	5/16"	3 1/4"	5/16"	2 3/8"	6	1"	7/16"	5/16"	11 1/2"	15"



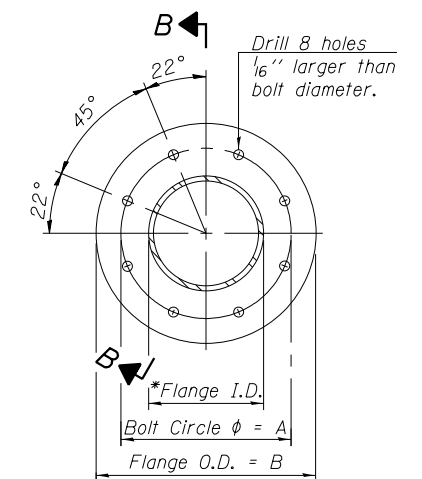
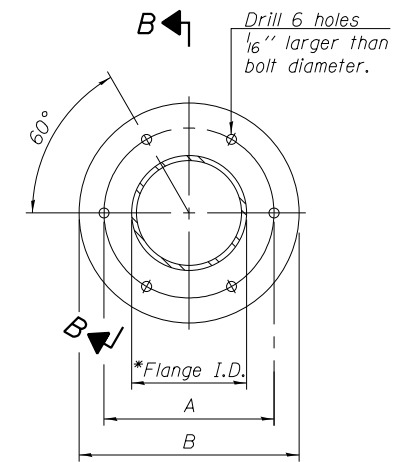
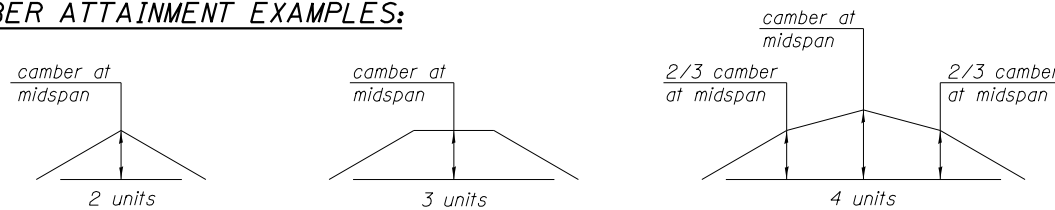
① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



CAMBER ATTAINMENT EXAMPLES:



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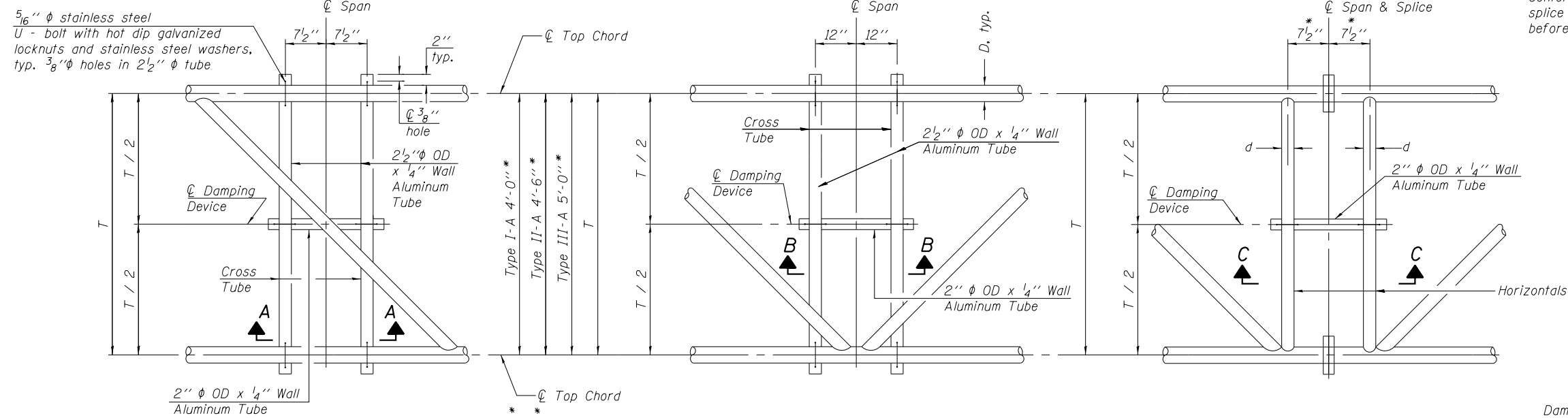
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DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A AND III-A**

SHEET NO. S3 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	*	LAKE	288	95
*12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



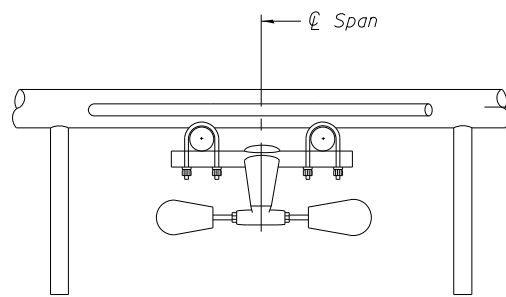
PLAN DETAIL "A"
 ☉ Span between Panel Points

PLAN DETAIL "B"
 ☉ Span at Panel Point

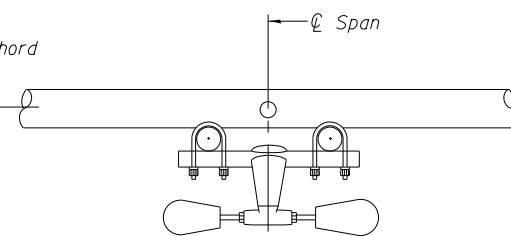
PLAN DETAIL "C"
 ☉ Span at ☉ Chord Splice

* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

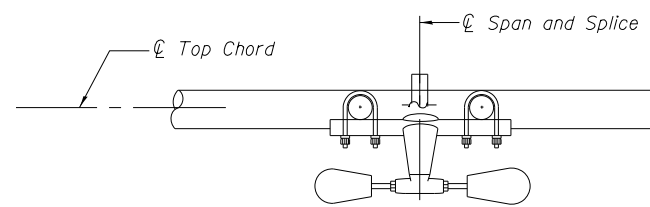
NOTES
 Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...
 Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



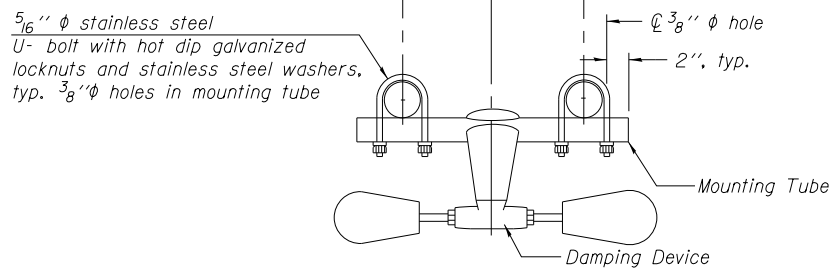
SECTION A-A



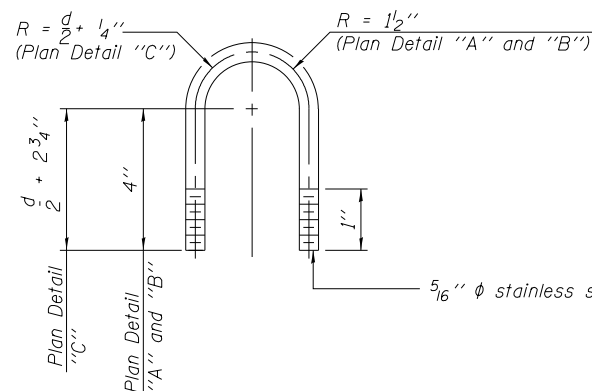
SECTION B-B



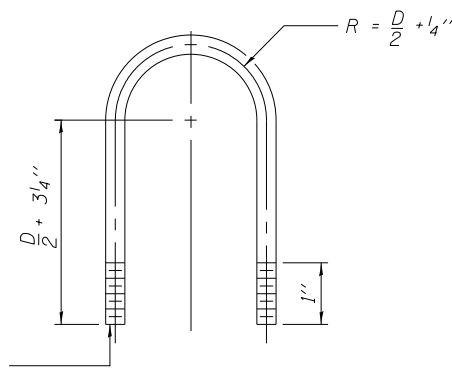
SECTION C-C



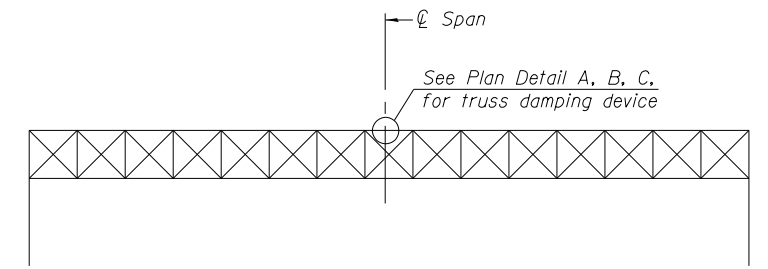
TRUSS DAMPING DEVICE CONNECTION DETAIL
 (Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
 (Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
 (Typical - Detail "A" and "B")



ELEVATION
 Aluminum Overhead Sign Truss

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OS-A-D

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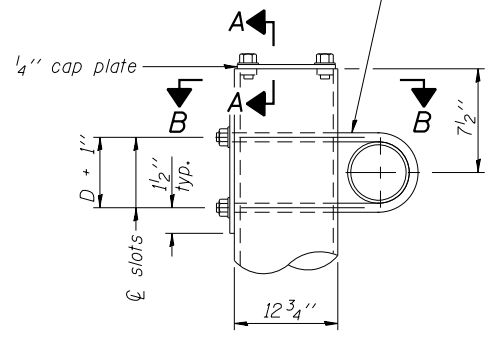
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**OVERHEAD SIGN STRUCTURE
 DAMPING DEVICE**

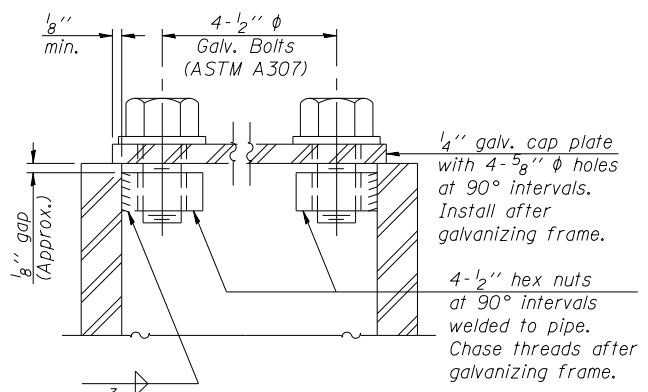
SHEET NO. 54 OF 29 SHEETS

F.A.P. RTE. 333	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 96
*12(VB-1&2)&12R-1(HB-2(BR))&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				

3/4" φ stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4)
1 3/16" x 2" slots on 12" φ pipe.
(4 slots required per pipe)

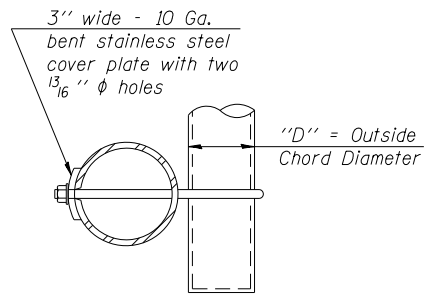


DETAIL A

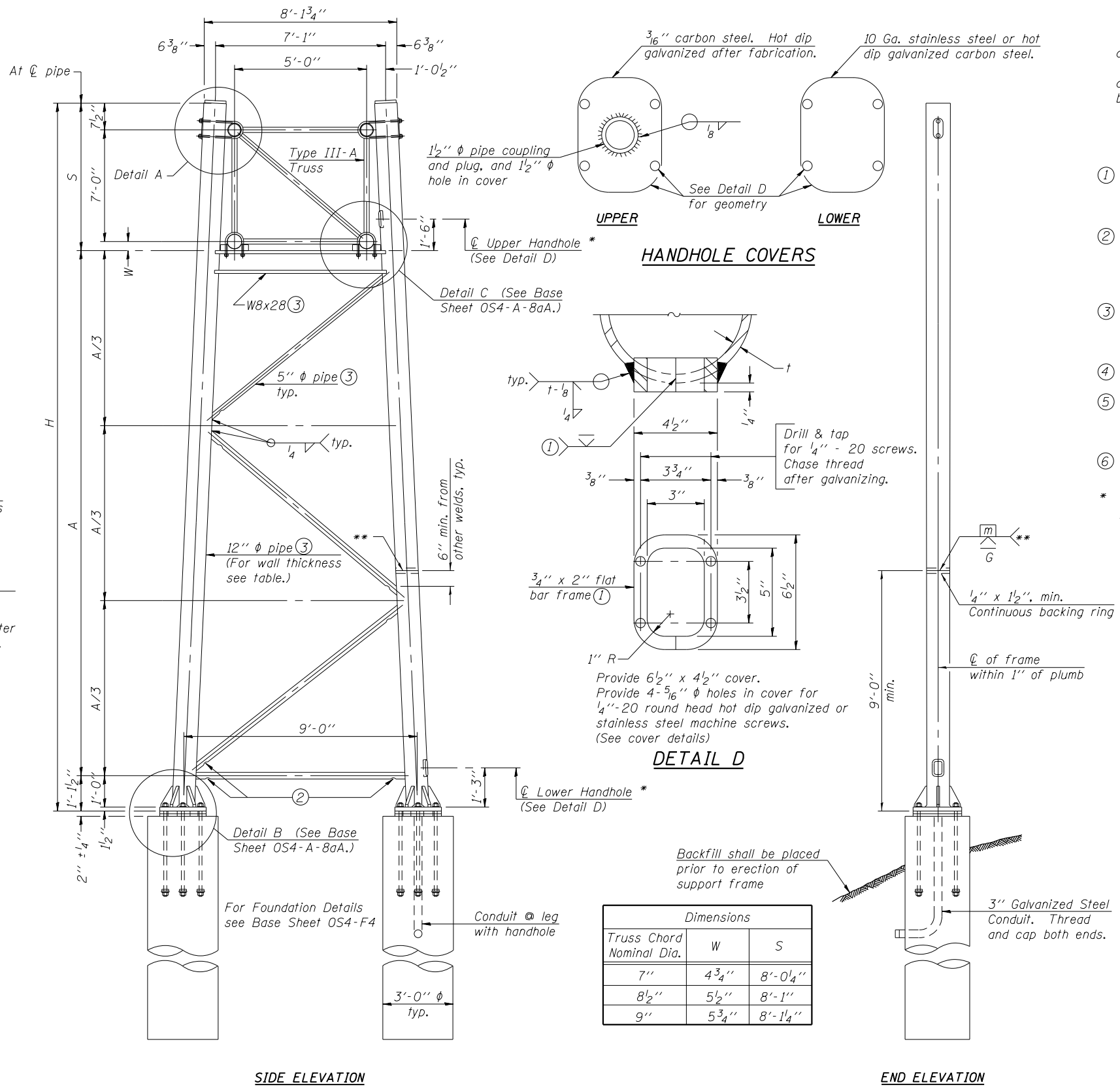


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



SECTION B-B



SIDE ELEVATION

END ELEVATION

TRUSS SUPPORT DETAILS

(12" φ Pipe-Type III-A Truss)

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 min or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

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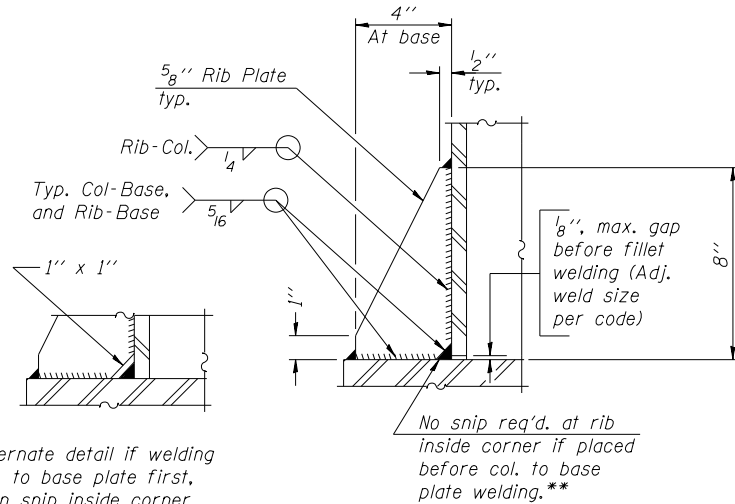
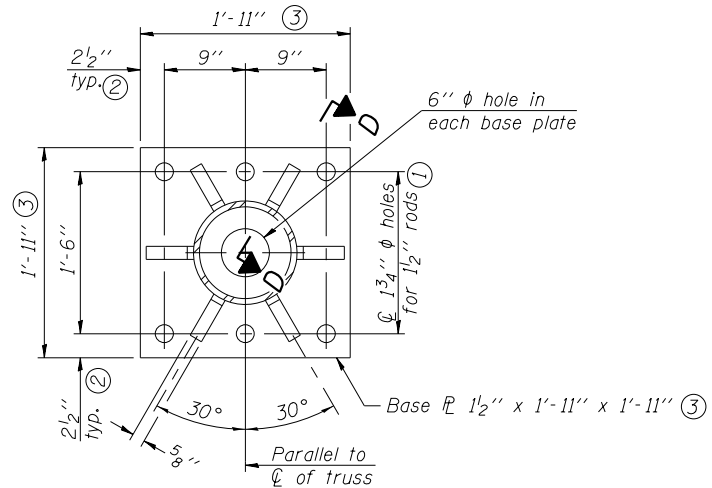
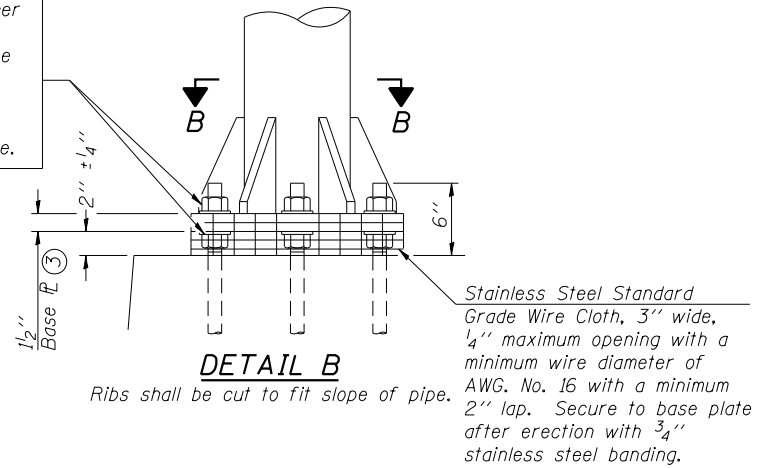
**OVERHEAD SIGN STRUCTURES - SUPPORT FRAME
FOR TYPE III-A ALUMINUM TRUSS**

SHEET NO. 55 OF 29 SHEETS

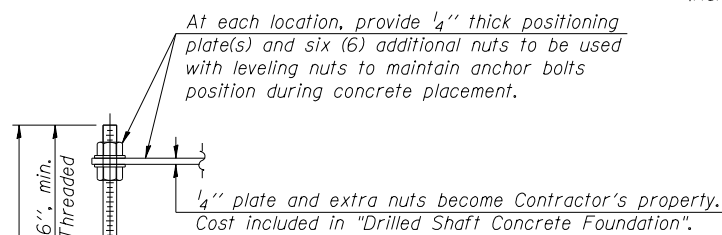
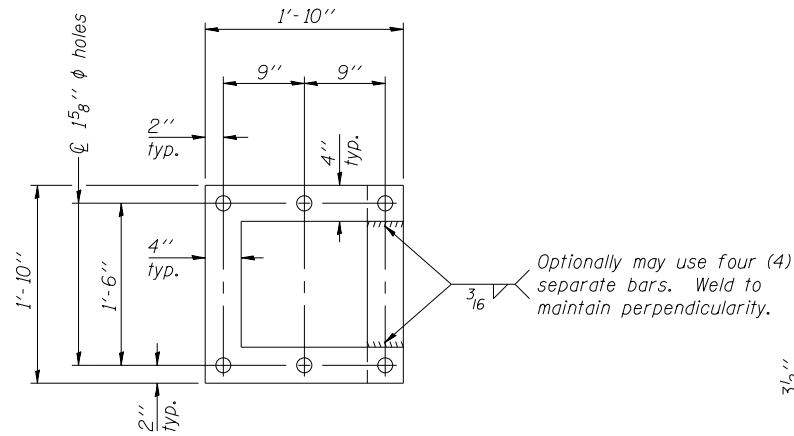
Structure Number	Station	Support		Pipe Wall Thickness	H (6)	A
		Left	Right			
ISO49S120R000.0-00	426+85	X		0.33"	29'-11"	20'-9 1/4"
ISO49S120R000.0-00	426+85		X	0.33"	28'-10"	19'-8 1/4"
ISO49S120R000.0-01	450+86	X		0.33"	29'-2"	20'-0 1/4"
ISO49S120R000.0-01	450+86		X	0.33"	28'-6"	19'-4 1/4"

F.A.P. RTE. 333	SECTION *	COUNTY LAKE	TOTAL SHEETS 288	SHEET NO. 97
*12(VB-1&2)&12R-1HB-2(BR)&12-RS-2		CONTRACT NO. 60X40		
ILLINOIS FED. AID PROJECT				

Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.



ANCHOR ROD DETAIL

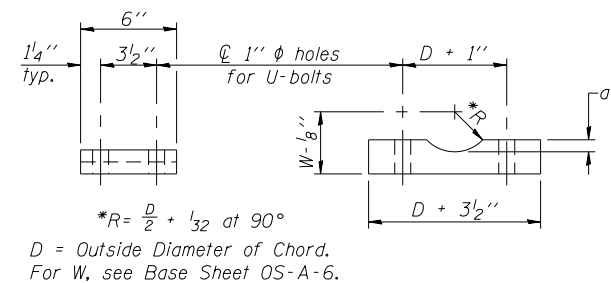
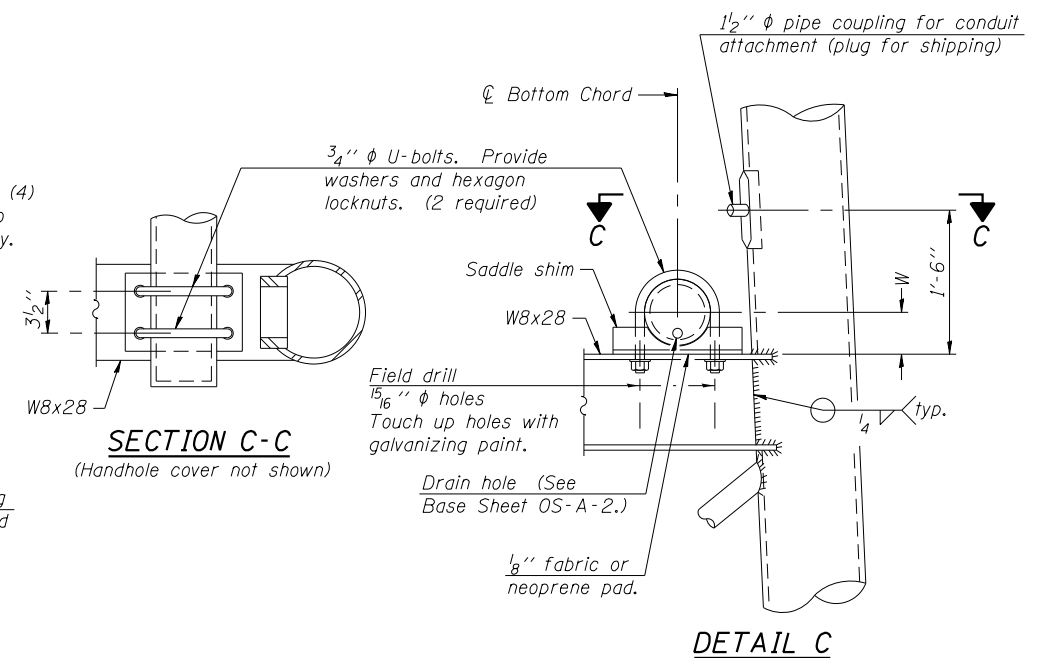
Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

TYPE III-A TRUSS

12" ϕ PIPE SUPPORT FRAME DETAILS

Notes:
For Type III-A Truss spans greater than 150 ft, and up to 160 ft.:

- ① 1 3/4" ϕ rod, 2" ϕ holes
- ② 2 3/4" edge distance
- ③ Base Pl 1 5/8" x 1'-11 1/2" x 1'-11 1/2"



Truss Chord Nominal Dia.	a
7"	1"
8 1/2"	1 1/4"
9"	1 3/8"

SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

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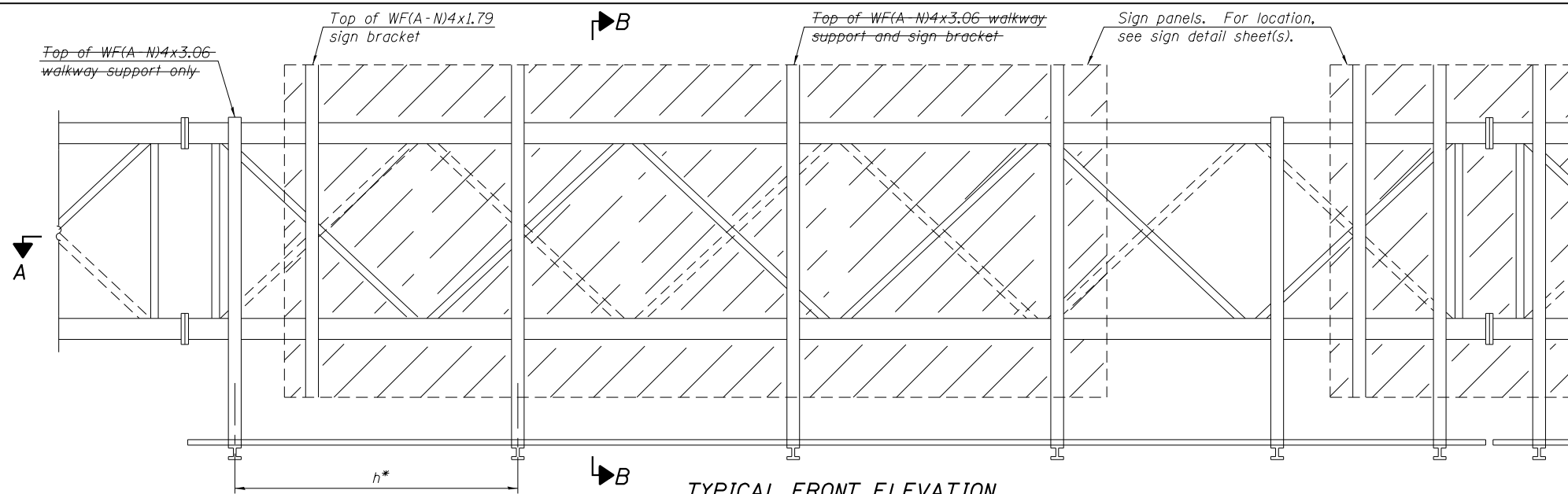
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OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS

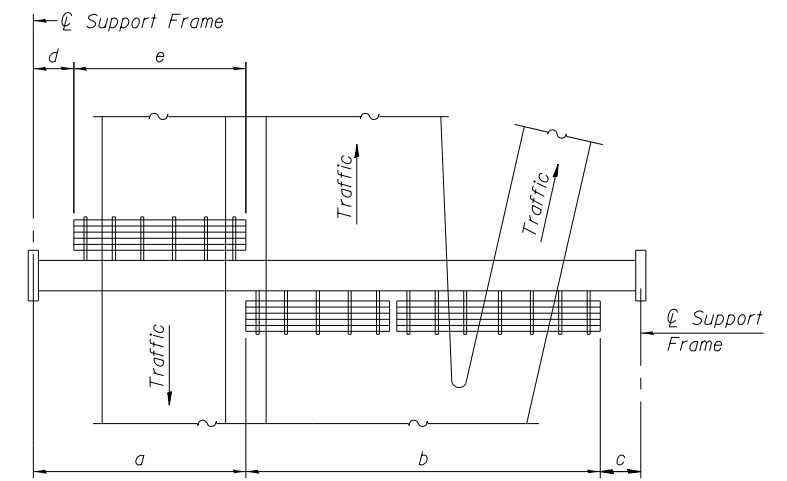
SHEET NO. S6 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	*	LAKE	288	98
*12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
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TYPICAL FRONT ELEVATION

With lights and handrail omitted for clarity.
For Section B-B, see Base Sheet OS-A-10.



PLAN WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Notes:

* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to \mathcal{C} of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to \mathcal{C} of nearest support bracket)

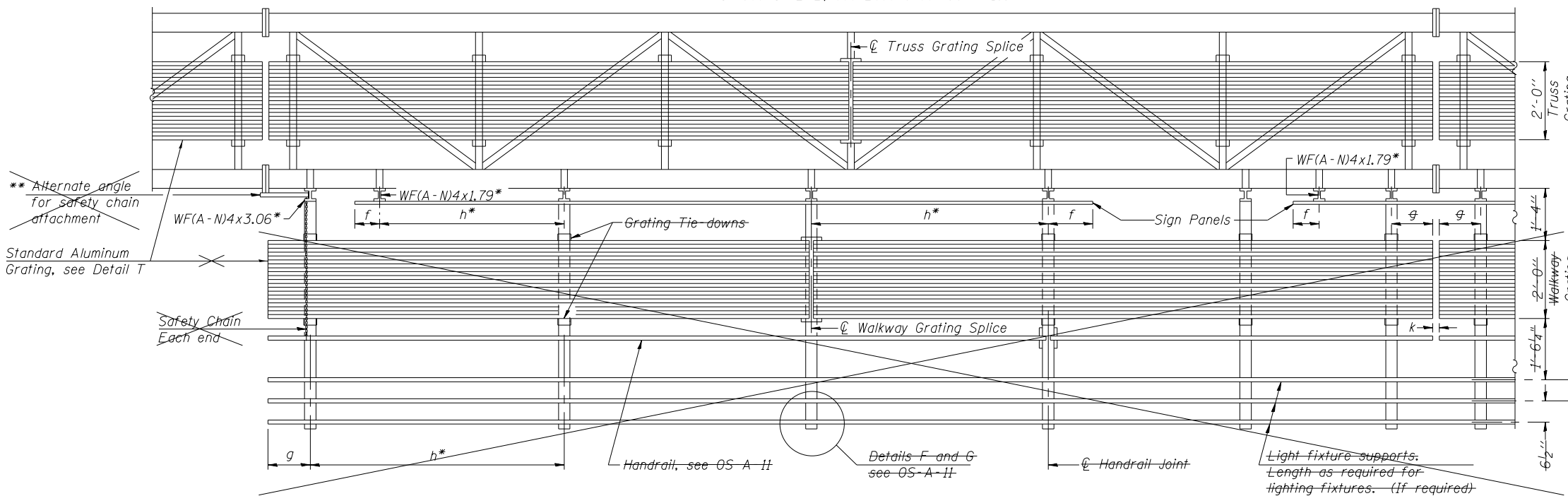
h = 6'-0" maximum (\mathcal{C} to \mathcal{C} sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)

k = 2" maximum gap between adjacent walkway grating sections and handrail ends

** If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.

For Details F and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10.

For Handrail Details see Base Sheet OS-A-11.



SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Handrail joints, grating, and light support splices placed as needed.

Truss grating to facilitate inspection shall run full length (center to center of support frames) $\pm 12"$ on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Walkway and Truss Grating width dimensions are nominal and may vary $\pm 1/2"$ based on available standard widths.

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
ISO49SI20R000.0-000	426+85	N/A	N/A	N/A	N/A	N/A	N/A
ISO49SI20R000.0-001	450+86	N/A	N/A	N/A	N/A	N/A	N/A

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OS-A-9

6-1-12

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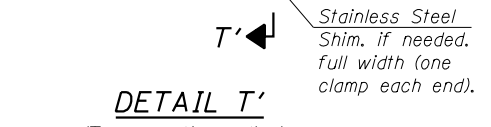
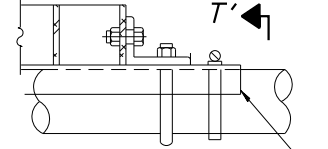
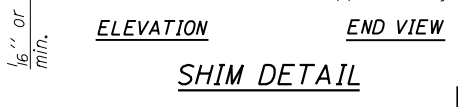
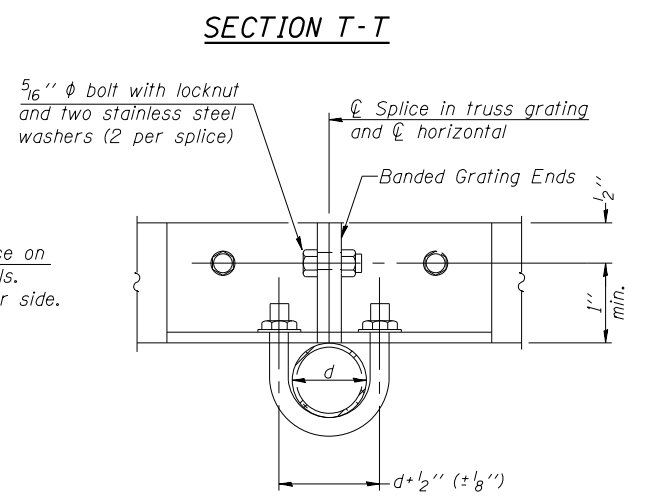
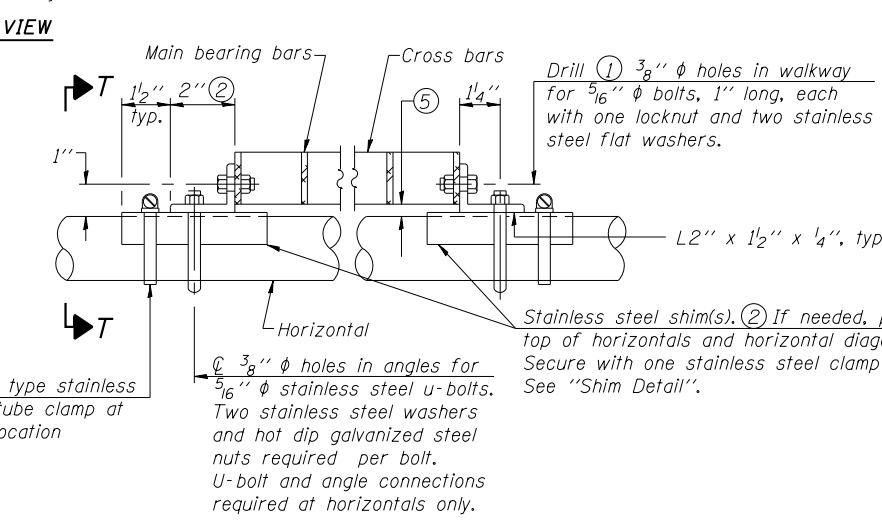
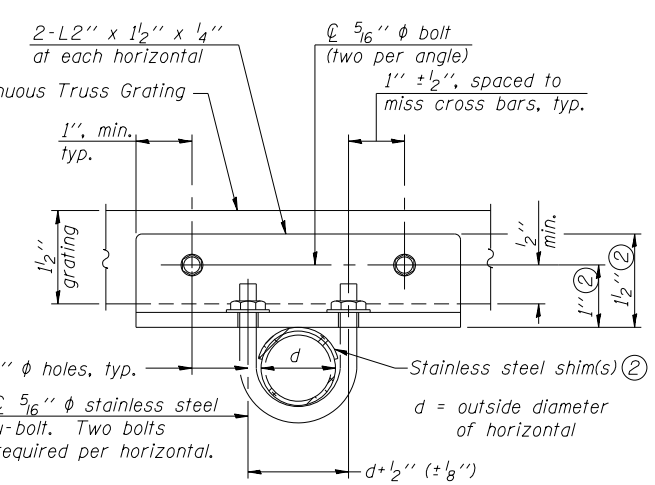
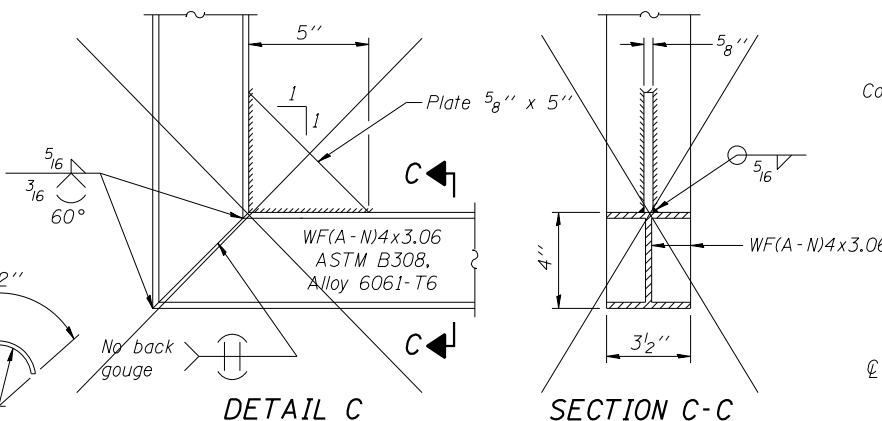
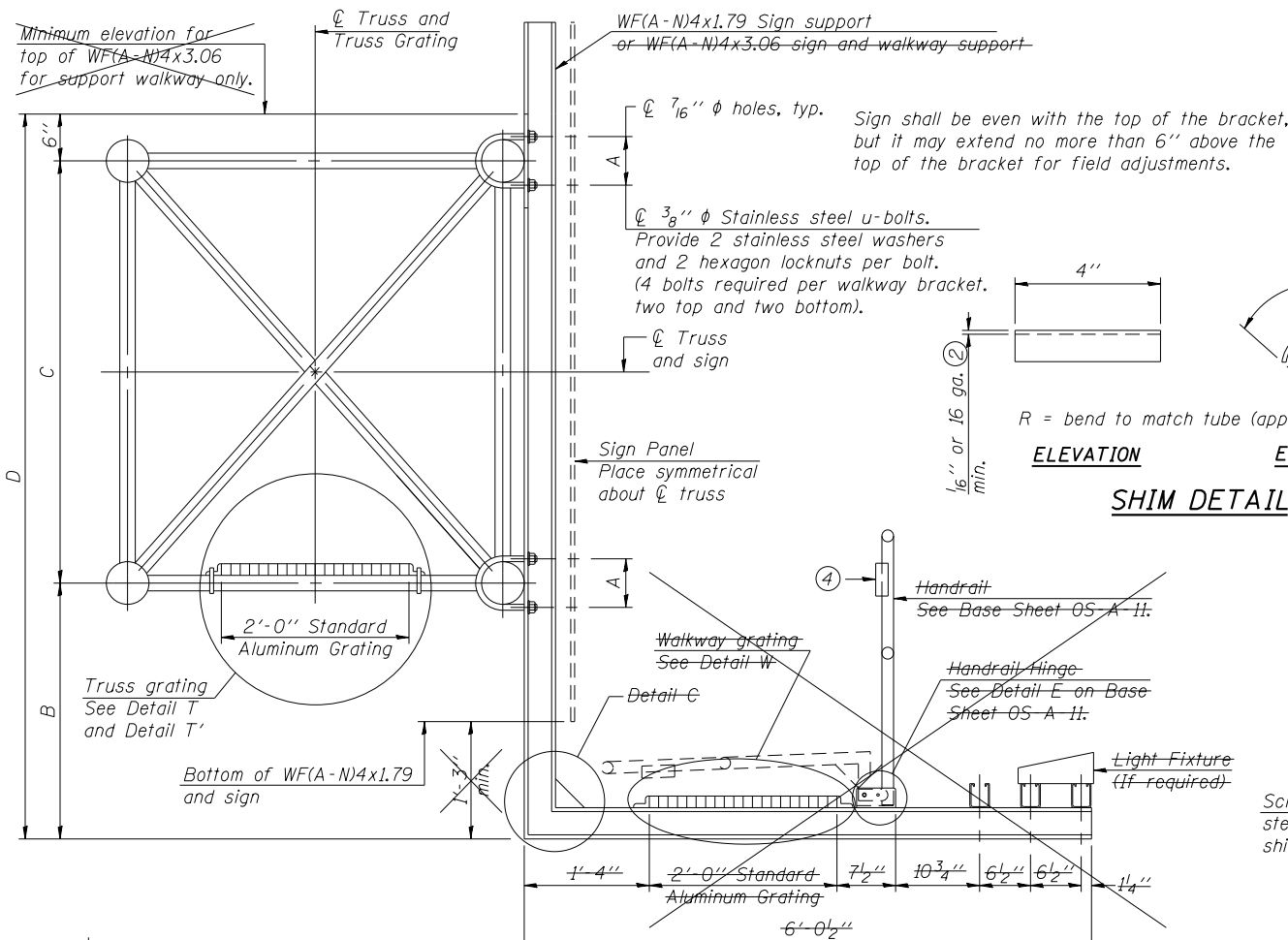
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	CHECKED - JAZ	REVISED -
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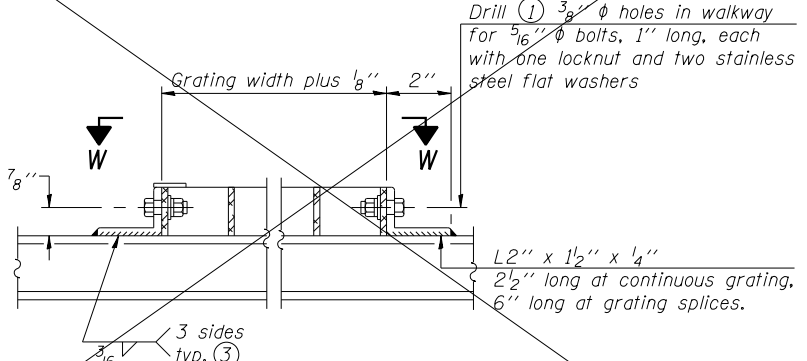
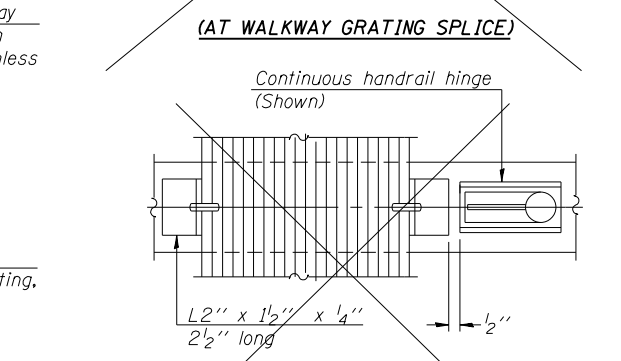
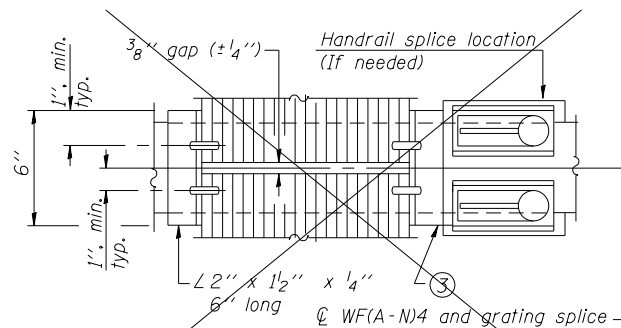
**OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS**

SHEET NO. 57 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	*	LAKE	288	99
*12(VB-1&2)&12R-1HB-2(BR)&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				



DETAIL T'
(Truss grating splice)
Details not shown same as Detail T.
Alternate materials may be used subject to the Engineer's review and approval.



DETAIL W
(Walkway grating)

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.
Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "4" sections for main bearing bars shall meet the following requirements:
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	ⓐ B	C	ⓑ D
ISO49S120R000.0-000	426+85	7 1/2"	N/A	7'-0"	N/A
ISO49S120R000.0-001	450+86	7 1/2"	N/A	7'-0"	N/A

- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- ③ If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- ④ 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- ⑤ Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- ⑥ Based on actual height of tallest sign given on OS-A-1.

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OS-A-10

6-1-12

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	DATE - 08/26/2015	REVISED -

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OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

SHEET NO. 58 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	*	LAKE	288	100
*121VB-1&2&12R-1HB-21BR&12-RS-2			CONTRACT NO. 60X40	
ILLINOIS FED. AID PROJECT				