

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	1
		ILLINOIS	CONTRACT NO. 62K60	

TRAFFIC DATA

IL 171 RAMP A

EXISTING ADT: 22,900 (2021)
POSTED SPEED: 35 MPH
DESIGN SPEED: 35 MPH
DESIGN DESIGNATION: OTHER PRINCIPAL ARTERIAL

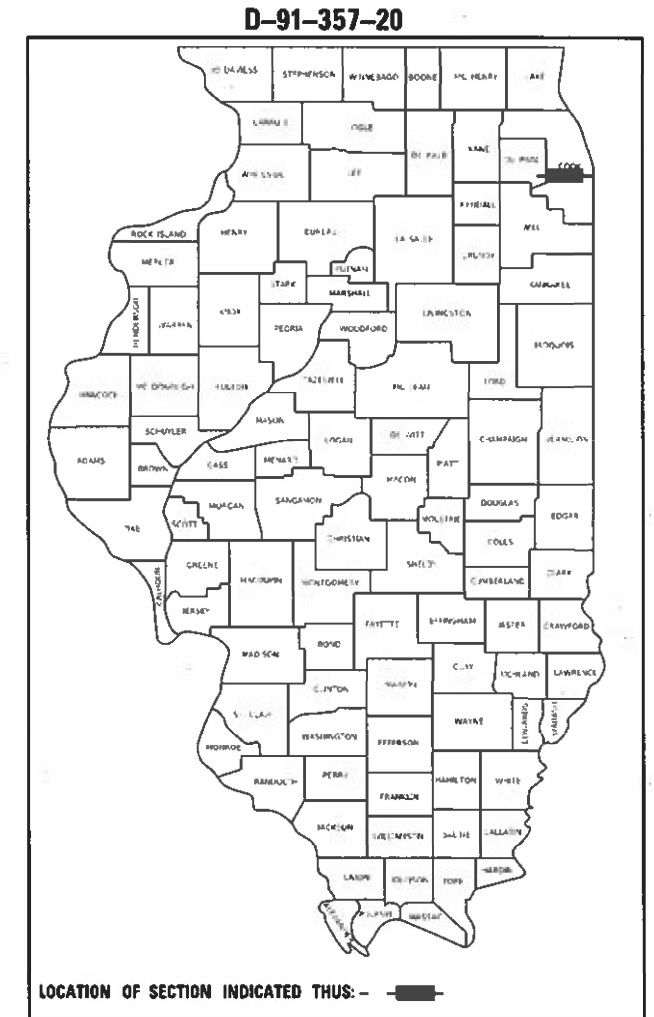
US 1220/45

EXISTING ADT: 42,150 (2021)
POSTED SPEED: 45 MPH
DESIGN SPEED: 45 MPH
DESIGN DESIGNATION: OTHER PRINCIPAL ARTERIAL

PROPOSED
HIGHWAY PLANS

FAP ROUTE 330 (US 1220/45)
SECTION 2019-187-B
AT IL 171 (ARCHER AVENUE/79TH STREET)
PROJECT NO. NHPP-FQTG(842)

BRIDGE REPLACEMENT
COOK COUNTY

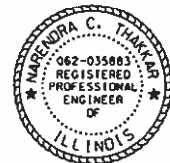


APPLY TO SHEETS:
1-17, 21-31, 44-45,
58-61, 116-153

APPLY TO SHEETS:
18-20, 32-43, 46-57

APPLY TO SHEETS:
62-77

APPLY TO SHEETS:
78-115



Brenda G. Karhoff

Matt P. Villanueva

Nerandra C. Thakkar

Ralph J. Otrembiak

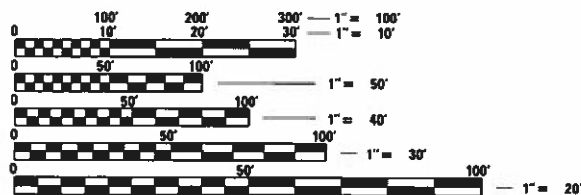
BRENDA G. KARHOFF
GKE, LLC
NO.: 062058341
DATE SIGNED: 10/11/2023
EXP. DATE: 11/30/2023

MATT P. VILLANUEVA
PRIMERA
NO.: 062066203
DATE SIGNED: 10/11/2023
EXP. DATE: 11/30/2023

NERANDRA C. THAKKAR
GHANDI AND ASSOCIATES, INC.
NO.: 062035883
DATE SIGNED: 10/11/2023
EXP. DATE: 11/30/2023

RALPH J. OTREMBIAK
GKE, LLC
NO.: 081004812
DATE SIGNED: 10/11/2023
EXP. DATE: 11/30/2024

PROJECT LOCATED IN THE VILLAGE OF WILLOW SPRINGS



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

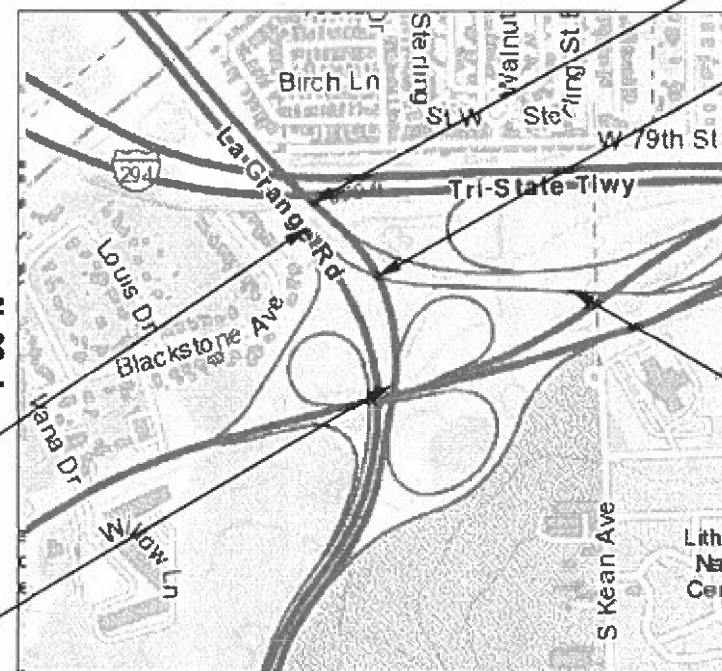
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: SUNG BYUN (847)-705-4288
PROJECT MANAGER: KIM HARVEY (847)-705-4055

CONTRACT NO. 62K60

NB IL 171 RAMP A
BEGIN IMPROVEMENT
STA. 2 + 31.00

US 1220/45
BEGIN IMPROVEMENT
STA. 272 + 89.71



LYONS TOWNSHIPS

GROSS LENGTH = 2408 FT. = 0.456 MILE
NET LENGTH = 2408 FT. = 0.456 MILE

US 1220/45
END IMPROVEMENT
STA. 283 + 66.22

BRIDGE LOCATION
STRUCTURE NO. 016-0518
016-2757 (PROPOSED)

NB IL 171 RAMP A
END IMPROVEMENT
STA. 15 + 80.84



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 12, 2023

Jose Luis Lopez
REGIONAL ENGINEER
December 8, 2023

Steph M. Smith
ENGINEER OF DESIGN AND ENVIRONMENT
December 8, 2023
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

1	COVER SHEET
2	GENERAL NOTES, INDEX OF SHEETS, STANDARD DRAWINGS
3 - 9	SUMMARY OF QUANTITIES
10 - 11	SCHEDULE OF QUANTITIES
12 - 13	EARTHWORK SCHEDULE
14	ALIGNMENT AND TIES
15 - 17	CONTROL POINTS AND BENCHMARKS
18 - 20	TYPICAL SECTIONS
21	REMOVAL PLAN
22 - 24	PROPOSED PLAN AND PROFILE US 12/20/45
25 - 27	PROPOSED PLAN AND PROFILE RAMP A
28 - 31	ROADWAY DETAILS
32	MOT GENERAL NOTES
33	MOT TYPICAL SECTIONS
34 - 41	MOT STAGING PLANS
42 - 43	MOT DETOUR PLAN
44 - 45	EROSION CONTROL PLANS
46	DRAINAGE SCHEDULE
47 - 49	EXISTING DRAINAGE PLANS
50 - 54	PROPOSED DRAINAGE PLANS
55 - 57	PIPE UNDERDRAINS PLANS
58 - 60	SIGNING & PAVEMENT MARKING PLANS
61	LANDSCAPING PLAN
62 - 77	LIGHTING PLANS
78 - 115	STRUCTURAL PLANS
116 - 118	SOIL BORINGS
119 - 129	D1 HIGHWAY STANDARDS
130 - 153	CROSS SECTIONS

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL JULIE AT (800) 892-0123 OR 811 TO DETERMINE WHICH UTILITIES ARE WITHIN THE AREA. 48 HOUR NOTIFICATION IS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AS REQUIRED.
- 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 UTILIZED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJACENT RESIDENTIAL AREAS.
- THE CONTRACTOR SHALL CONTACT KALPANA.KANNAN HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN.HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR SHALL SWEEP AND CLEAN THE PAVEMENT SURFACE, PER ARTICLE 107.15 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD (FOR FUTURE REFERENCES), ALL EXISTING PAVEMENT MARKING LINES IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND SHALL BRACE AND SUPPORT THE UTILITIES PROPERLY IN ORDER TO PREVENT SETTLEMENT, DISPLACEMENT, OR DAMAGE TO THE UTILITIES. THE PROTECTION OF THE UTILITIES AS SPECIFIED HEREIN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.
- THE CONTRACTOR SHALL TAKE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- TEMPORARY EDGE LINES SHOWN IN THE SUGGESTED MAINTENANCE OF TRAFFIC SHALL BE INSTALLED WITHIN 24 HOURS OF MILLING OR BINDER REPLACEMENT.
- EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH REVISED TRAFFIC PATTERNS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR PAVEMENT MARKING REMOVAL - WATERBLASTING.

GENERAL NOTES CONT'D

- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. THIS WORK WILL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
- NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.
- VERTICAL BARRICADES WILL REMAIN IN PLACE ALONG THE EDGES OF PAVEMENT AS SHOWN IN THE SUGGESTED MAINTENANCE OF TRAFFIC PLANS UNTIL THE SURFACE COURSE AND PROPOSED PAVEMENT MARKING EDGE LINES HAVE BEEN COMPLETED.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
- GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR'S EXPENSE.
- NO TREES SHALL BE REMOVED BETWEEN APRIL 1 THROUGH OCTOBER 31.
- THE CONTRACTOR SHALL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171 AT LEAST 2 WEEKS PRIOR TO FORESTRY WORK AND WEED CONTROL WORK.
- PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.
- BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ART. 550.07(b, c) OF THE SSRBC WILL NOT BE ALLOWED.
- THE COST OF MAKING PIPE CONNECTIONS TO EXISTING DRAINAGE STRUCTURES, AS WELL AS PROPOSED ONES, SHALL BE CONSIDERED AS INCLUDED IN THE APPLICABLE STORM SEWER UNIT BID PRICE. THE COST OF BLOCKING, OR PLUGGING HOLES, IN EXISTING DRAINAGE STRUCTURES THAT ARE TO REMAIN SHALL BE CONSIDERED AS INCLUDED IN THE APPLICABLE STORM SEWER REMOVAL UNIT BID PRICE. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK.

IDOT STANDARD DRAWINGS

STANDARD NUMBERS	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
406001-06	ENTRANCE RAMP TERMINAL (FLEXIBLE RAMP PAVEMENT ADJACENT TO FLEXIBLE MAINLINE PAVEMENT)
406101-05	EXIT RAMP TERMINAL (FLEXIBLE RAMP PAVEMENT ADJACENT TO FLEXIBLE MAINLINE PAVEMENT)
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
606201-04	STEEL PLATE BEAM GUARDRAIL
630001-13	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
630301-09	TRAFFIC BARRIER TERMINAL, TYPE 2
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 5
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 6
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6B
631033-09	DELINEATORS
635001-02	OFF-RD OPERATIONS, MULTILANE, 15' TO 24' FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701106-02	LANE CLOSURE, MULTILANE AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >=45 MPH
701411-09	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS >= 45 MPH TO 55 MPH
701421-08	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS >= 45 MPH TO 55 MPH
701423-10	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS >=45 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS <= 40 MPH
701427-05	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701601-09	TRAFFIC CONTROL DEVICES
701901-09	TEMPORARY CONCRETE BARRIER
704001-08	SIGN PANEL MOUNTING DETAILS
720001-01	SIGN PANEL ERECTION DETAILS
720006-04	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
720011-01	OBJECT AND TERMINAL MARKERS
725001-01	TELESCOPING STEEL SIGN SUPPORT
728001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
729001-01	TYPICAL PAVEMENT MARKINGS
780001-05	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
781001-04	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
782006-01	

DISTRICT 1 STANDARD DRAWINGS

STANDARD NUMBERS	DESCRIPTION
BD-32	BUTT JOINTS AND HMA TAPER
BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
BE-305	LIGHT POLE FOUNDATION, METAL
BE-400	ALUMINUM LIGHT POLE 47'-6" MOUNTING HEIGHT
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS SHEET A
BE-901	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS
TC-08	ENTRANCE AND EXIT RAMP CLOSURE DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAY
TC-11	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
TC-12	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS
TC-13	TYPICAL PAVEMENT MARKINGS
TC-17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
INDEX OF SHEETS AND STANDARD DRAWINGS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	2
				CONTRACT NO. 62K60
		ILLINOIS	FED. AID PROJECT	

CONSTRUCTION CODE
80% FED/20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 ROADWAY	0010 BRIDGE	0021 SAFETY	0021 LIGHTING
* 20100500	TREE REMOVAL, ACRES	ACRE	0.3	0.3			
20101000	TEMPORARY FENCE	FOOT	825	825			
* 20101200	TREE ROOT PRUNING	EACH	35	35			
* 20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	34	34			
* 20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	1	1			
20200100	EARTH EXCAVATION	CU YD	19,746	19,746			
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2,455	2,455			
20700220	POROUS GRANULAR EMBANKMENT	CU YD	115		115		
20800150	TRENCH BACKFILL	CU YD	1,019	1,019			
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	5,729	5,729			
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	3,351	3,351			
* 25000210	SEEDING, CLASS 2A	ACRE	1.00	1			
* 25000310	SEEDING, CLASS 4	ACRE	1.25	1.25			
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	203	203			
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	203	203			
* 25100115	MULCH, METHOD 2	ACRE	2.25	2.25			
* 25100630	EROSION CONTROL BLANKET	SQ YD	4,888	4,888			
* 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	5,324	5,324			
* 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	225	225			
* 28000305	TEMPORARY DITCH CHECKS	FOOT	510	510			
* 28000400	PERIMETER EROSION BARRIER	FOOT	461	461			
* 28000510	INLET FILTERS	EACH	23	23			
* 28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	2,178	2,178			
28100125	STONE RIPRAP, CLASS B3	SQ YD	137	137			
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	898	898			
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	10,889	10,889			
31101200	SUBGRADE GRANULAR MATERIAL, TYPE B 4"	SQ YD	159	159			
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	4,618	4,618			
40600370	LONGITUDINAL JOINT SEALANT	FOOT	4,468	4,468			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	300	300			

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-2757 IL 171 OVER US 45
SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K60	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				0004 ROADWAY	0010 BRIDGE	0021 SAFETY	0021 LIGHTING
40701976	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14 3/4"	SQ YD	5,776	5,776			
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	313	313			
44000100	PAVEMENT REMOVAL	SQ YD	5,798	5,798			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,173	1,173			
44001980	CONCRETE BARRIER REMOVAL	FOOT	166	166			
44004250	PAVED SHOULDER REMOVAL	SQ YD	2,882	2,882			
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	1,360	1,360			
48203056	HOT-MIX ASPHALT SHOULDERS, 14 3/4"	SQ YD	4,487	4,487			
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1		
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	115		115		
50300225	CONCRETE STRUCTURES	CU YD	279.3		279.3		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	187		187		
50300260	BRIDGE DECK GROOVING	SQ YD	773		773		
50300300	PROTECTIVE COAT	SQ YD	976		976		
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	114.1		114.1		
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1		
50500505	STUD SHEAR CONNECTORS	EACH	3,609		3,609		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	132,260		132,260		
51100100	SLOPE WALL 4 INCH	SQ YD	71		71		
* 51201600	FURNISHING STEEL PILES HP12X53	FOOT	1,856		1,856		
* 51202305	DRIVING PILES	FOOT	1,856		1,856		
* 51203600	TEST PILE STEEL HP12X53	EACH	2		2		
* 51204650	PILE SHOES	EACH	32		32		
* 51500100	NAME PLATES	EACH	1		1		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	135		135		
52100540	ANCHOR BOLTS, 1 1/2"	EACH	56		56		
52200500	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	5,027		5,027		
52318802	DRAINAGE SYSTEM FOR STRUCTURES	L SUM	1		1		
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1			
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	177	177			

* SPECIALTY ITEM

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PLOT DATE = 10/18/2023	DATE = 10/18/2023	REVISED =

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
SUMMARY OF QUANTITIES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	4
ILLINOIS			FED. AID PROJECT	

SCALE: SHEET 2 OF 7 SHEETS STA. TO STA.

REV-SEP

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				0004 ROADWAY	0010 BRIDGE	0021 SAFETY	0021 LIGHTING
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	531	531			
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	174	174			
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	225	225			
550A4300	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 30"	FOOT	9	9			
55100500	STORM SEWER REMOVAL 12"	FOOT	275	275			
55101200	STORM SEWER REMOVAL 24"	FOOT	125	125			
55101400	STORM SEWER REMOVAL 30"	FOOT	124	124			
55101600	STORM SEWER REMOVAL 36"	FOOT	87	87			
55101800	STORM SEWER REMOVAL 42"	FOOT	10	10			
58700300	CONCRETE SEALER	SQ FT	2,884		2,884		
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	5	5			
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	165	165			
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	2,997	2,997			
60201005	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 10 FRAME AND GRATE	EACH	6	6			
60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	EACH	3	3			
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	4	4			
60204705	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 10 FRAME AND GRATE	EACH	1	1			
60204825	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 11V FRAME AND GRATE	EACH	1	1			
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2			
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1			
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2			
60224039	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1			
60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2			
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	1	1			
60250200	CATCH BASINS TO BE ADJUSTED	EACH	1	1			
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1			
60602800	CONCRETE GUTTER, TYPE B	FOOT	929	929			
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	168	168			
60608582	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24	FOOT	230	230			



USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
PLOT SCALE = 2.0000' / in.	DRAWN - MAC	REVISED -
PLOT DATE = 10/18/2023	CHECKED - AMB	REVISED -
	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
 SUMMARY OF QUANTITIES**

SCALE: SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K60	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				0004 ROADWAY	0010 BRIDGE	0021 SAFETY	0021 LIGHTING
* 72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	4	4			
* 72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1			
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4			4	
* 72900200	METAL POST - TYPE B	FOOT	69.5	69.5			
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73	73			
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4,493	4,493			
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	234	234			
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1,036	1,036			
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	243	243			
* 78004635	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 7"	FOOT	1,270	1,270			
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	5,289	5,289			
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	150	150			
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	203	203			
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	25	25			
* 78011040	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	1,270	1,270			
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	140	140			
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	26			26	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	48			48	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	115	115			
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	3,016	3,016			
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	167				167
* 81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	135				135
* 81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	20				20
* 81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	100				100
* 81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	2				2
* 81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	2				2
* 81300800	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 6"	EACH	2				2
* 81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	1				1
* 81603090	UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	1,532				1,532

*** SPECIALTY ITEM**



USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
	DRAWN - MAC	REVISED -
PLOT SCALE = 2,0000 ' / in.	CHECKED - AMB	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-2757 IL 171 OVER US 45
SUMMARY OF QUANTITIES

SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	7
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				80% FED/20% STATE			
				0004 ROADWAY	0010 BRIDGE	0021 SAFETY	0021 LIGHTING
* 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	428				428
* 81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	100				100
* 81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	300				300
* 81800300	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	102				102
* 82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	69				69
* 82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	30				30
* 82110025	LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION C	EACH	18				18
* 83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	11				11
* 83600365	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	11				11
* 83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	11				11
* 84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	11				11
* 84200804	REMOVAL OF POLE FOUNDATION	EACH	10				10
* A2004820	TREE, GLEDITSIA TRIACANTHOS INERMIS SKYLINE (SKYLINE THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	5	5			
* A2016614	TREE, QUERCUS ELLIPSOIDALIS (HILL'S OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	7	7			
* B2000562	TREE, AMELANCHIER CANADENSIS (SHADBLOW SERVICEBERRY), 4' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	8	8			
* B2001164	TREE, CERCI CANADENSIS (EASTERN REDBUD), 5' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	9	9			
* C2C05718	SHRUB, RHUS AROMATICA (FRAGRANT SUMAC), 18" WIDTH, CONTAINER	EACH	75	75			
* K0029634	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	30	30			
* X0327120	WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT	ACRE	3	3			
* X1200139	REMOVAL OF LIGHTING LUMINAIRE, SALVAGE	EACH	99				99
* X1700036	CONCRETE BARRIER BASE (SPECIAL NO. 1)	FOOT	126	126			
* X2503110	MOWING (SPECIAL)	ACRE	3	3			
* X5211415	HIGH LOAD MULTI-ROTATIONAL BEARINGS, DISC, FIXED-300K	EACH	7		7		
* X5211615	HIGH LOAD MULTI-ROTATIONAL BEARINGS, DISC, GUIDED EXPANSION-300K	EACH	7		7		
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12			
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			
X7010410	SPEED DISPLAY TRAILER	CAL MO	12	12			

* SPECIALTY ITEM



USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
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PLOT DATE = 10/18/2023	CHECKED - AMB	REVISED -
	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
 SUMMARY OF QUANTITIES**

SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	8
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

PAVEMENT SCHEDULE								
LOCATION		OFFSET	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14 3/4"					
			HOT-MIX ASPHALT SHOULDERS, TYPE B 8"	AGGREGATE SHOULDERS, TYPE B 8"	HOT-MIX ASPHALT SHOULDERS, 14 3/4"	CONCRETE GUTTER, TYPE B	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
			40701976 (SQYD)	48101600 (SQYD)	48203056 (SQYD)	60602800 (FOOT)	60603800 (FOOT)	60608582 (FOOT)
US 12/20/45								
272+89.71	TO	277+63.46		195				
272+89.71	TO	283+66.22	2901					
272+89.71	TO	283+66.22						
273+12.00	TO	274+14.00			1491			
274+14.00	TO	2+25.84 (NB US 12/20/45 TO WB IL 171)			86			
274+14.00	TO	277+77.00		122				
274+14.00	TO	280+48.07			729			
276+77.00	TO	278+07.22				160		
277+89.00	TO	279+89.00				196		
277+89.00	TO	283+66.22				573		
277+97.96	TO	280+18.20						230
279+21.14	TO	280+48.07		34				
279+21.14	TO	280+48.00			25			
280+48.00	TO	281+74.00			111			
281+00.00	TO	283+66.22						
SUBTOTAL			2901	464	2464	929	0	230
IL 171 RAMP A								
2+31.00	TO	5+14.20			187			
2+31.00	TO	5+46.00		112				
2+50.00	TO	5+14.20	705					
2+92.00	TO	3+84.00			189			
3+53.00	TO	5+25.00					168	
3+83.00	TO	279+08.34 (SB US 12/20/45)			66			
3+83.00	TO	5+14.20			149			
4+33.73	TO	5+98.00		68				
7+67.35	TO	15+80.84			525			
7+67.35	TO	15+80.84	2170					
7+67.35	TO	15+80.84			907			
7+13.89	TO	15+80.84		371				
7+54.46	TO	15+80.84		345				
SUBTOTAL			2875	896	2023	0	168	0
TOTAL			5776	1360	4487	929	168	230

REMOVAL SCHEDULE											
LOCATION		OFFSET	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT								
			TREE REMOVAL (ACRE)	PAVEMENT REMOVAL	COMBINATION CURB AND GUTTER REMOVAL	CONCRETE BARRIER REMOVAL	PAVED SHOULDER REMOVAL	GUARDRAIL REMOVAL			
			20100110 (ACRE)	44000100 (SQYD)	44000500 (FOOT)	44001980 (FOOT)	44004250 (SQYD)	53200310 (FOOT)			
US 12/20/45											
272+89.71	TO	278+30.00			76						709
272+89.71	TO	283+66.22		3014							
273+63.65	TO	281+73.93								694	
274+91.00	TO	276+24.00									140
276+24.00	TO	277+81.00	51					166			
277+25.00	TO	277+85.00									60
277+63.00	TO	283+66.22				613					
280+88.59	TO	283+66.22									197
282+42.00	TO	283+66.22									126
283+66.22	TO				75						
SUBTOTAL			0.0	151	3014	613	166	1600	326		
IL 171 RAMP A											
2+50.00	TO	3+57.76			67						
2+30.00	TO	5+45.50				817					96
2+50.00	TO	5+68.00									313
2+91.85	TO	3+83.60								180	
3+58.00	TO	5+68.00						210			
4+85.00	TO	6+08.00						162			
4+85.00	TO	6+27.00									145
5+26.00	TO	5+41.25	0.01								
7+00.00	TO	8+75.00	0.09								
7+67.50	TO	9+42.50	0.22								
7+87.00	TO	8+96.00						109			
7+97.50	TO	15+80.84								761	
8+06.00	TO	11+88.75									381
8+20.00	TO	8+95.00						79			
8+22.00	TO	11+55.00									336
8+33.00	TO	15+80.84			1967						
8+97.50	TO	15+80.84								245	
15+80.84	TO				82						
SUBTOTAL			0.3	149	2784	560	0	1282	1175		
TOTAL			0.3	300	5798	1173	166	2882	1501		

LANDSCAPING SCHEDULE												
LOCATION		OFFSET	SEEDING CLASS 2A	SEEDING CLASS 4	STONE RIPRAP, CLASS B3	TREE, GLEDITSIA TRIACANTHOS INERMIS SKYLINE (SKYLINE THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	TREE, QUERCUS ELLIPSOIDALIS (HILL'S OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	TREE, AMELANCHIER CANADENSIS (SHADBLow SERVICEBERRY), 4' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 5' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	SHRUB, RHUS AROMATICA (FRAGRANT SUMAC), 18" WIDTH, CONTAINER		
			25000210 (ACRE)	25000310 (ACRE)	28100125 (SQYD)	A2004820 (EACH)	A2016614 (EACH)	B2000562 (EACH)	B2001164 (EACH)	C2005718 (EACH)		
			US 12/20/45									
					RT/LT							
272+90.00	TO	278+50.00	0.27	0.59								
278+50.00	TO	283+66.22	0.30	0.09								
278+89.42	TO	279+80.00			137							
SUBTOTAL			0.57	0.68	137	0	0	0	0	0		
IL 171 RAMP A												
2+50.00	TO	8+00.00	0.10	0.07								
8+00.00	TO	13+50.00	0.23	0.48								
7+11.35	TO	8+19.60				5						
8+00.00	TO	9+27.50					7					
8+22.50	TO	9+18.00						8		9		
8+14.50	TO	9+33.50								75		
SUBTOTAL			0.33	0.55	0	5	7	8	9	75		
TOTAL			0.90	1.23	137	5	7	8	9	75		
USE			1.00	1.25	137	5	7	8	9	75		

SIGNING SCHEDULE											
LOCATION	STATION	OFFSET (FT)	LT/RT	SIGN	WIDTH (FOOT)	HEIGHT (FOOT)	SIGN PANEL, TYPE 1 (SQ FT)	SIGN PANEL, TYPE 2 (SQ FT)	REMOVE SIGN PANEL ASSEMBLY, TYPE B (EACH)	RELOCATE SIGN PANEL ASSEMBLY, TYPE B (EACH)	METAL POST-TYPE B (FOOT)
US 45	274+39.00	38.30	RT	EXIT/ARROW	3.0	4.0				1	15.0
US 45	276+30.00	41.40	RT	W1-8L	2.0	2.5	5		1		13.5
US 45	277+74.00	22.00	LT	R2-4	2.0	2.5		5	1		13.5
US 45	277+37.00	39.00	RT	R2-4	2.0	2.5			5		13.5
US 45	280+07.00	39.00	RT	W4-3R	3.0	3.0		9	1		14.0
TOTAL							5	19	4	1	69.5

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 DESIGNED: MAC
 DRAWN: MAC
 CHECKED: AMB
 DATE: 10/18/2023



USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
	DRAWN - MAC	REVISED -
PLOT SCALE = 2,0000 ' / in.	CHECKED - AMB	REVISED -
PLOT DATE = 11/22/2023	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
SCHEDULE OF QUANTITIES**

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 10
CONTRACT NO. 62K60				ILLINOIS FED. AID PROJECT

STATION TO STATION		LENGTH (FT)	TOPSOIL EXCAVATION		TOPSOIL PLACEMENT		EARTH EXCAVATION		EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (85%)		EMBANKMENT		EARTHWORK BALANCE WASTE	
			(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)	(CUBIC YARDS)
			STAGE 1	STAGE 2	STAGE 1	STAGE 2	STAGE 1	STAGE 2	STAGE 1	STAGE 2	STAGE 1	STAGE 2	STAGE 1	STAGE 2
US 12/20/45														
272+89.70	273+00.00	10.30	3.00	0.00	2.00	0.00	11.00	19.00	10.00	16.00	2.00	0.00	8.00	16.00
273+00.00	273+50.00	50.00	22.00	0.00	9.00	0.00	54.00	98.00	46.00	83.00	7.00	0.00	39.00	83.00
273+50.00	274+00.00	50.00	32.00	0.00	9.00	0.00	95.00	118.00	80.00	100.00	4.00	0.00	76.00	100.00
274+00.00	274+50.00	50.00	43.00	0.00	10.00	2.00	144.00	148.00	123.00	126.00	3.00	10.00	120.00	116.00
274+50.00	275+00.00	50.00	53.00	0.00	12.00	8.00	202.00	139.00	171.00	118.00	2.00	16.00	169.00	102.00
275+00.00	275+50.00	50.00	61.00	0.00	12.00	11.00	257.00	115.00	219.00	98.00	2.00	12.00	217.00	86.00
275+50.00	276+00.00	50.00	68.00	30.00	10.00	27.00	258.00	187.00	220.00	159.00	3.00	8.00	217.00	151.00
276+00.00	276+50.00	50.00	66.00	59.00	8.00	45.00	231.00	249.00	197.00	211.00	4.00	5.00	193.00	206.00
276+50.00	277+00.00	50.00	67.00	30.00	8.00	23.00	209.00	159.00	177.00	136.00	6.00	3.00	171.00	133.00
277+00.00	277+50.00	50.00	87.00	0.00	12.00	0.00	216.00	77.00	184.00	65.00	4.00	0.00	180.00	65.00
277+50.00	278+00.00	50.00	91.00	0.00	7.00	4.00	621.00	78.00	528.00	67.00	1.00	6.00	527.00	61.00
278+00.00	278+50.00	50.00	100.00	0.00	0.00	7.00	1449.00	87.00	1232.00	74.00	0.00	28.00	1232.00	46.00
278+50.00	279+00.00	50.00	113.00	0.00	3.00	6.00	1720.00	100.00	1462.00	85.00	0.00	41.00	1462.00	44.00
279+00.00	279+50.00	50.00	123.00	0.00	14.00	6.00	1873.00	110.00	1592.00	93.00	51.00	38.00	1541.00	55.00
279+50.00	280+00.00	50.00	139.00	0.00	30.00	4.00	1572.00	156.00	1336.00	133.00	77.00	34.00	1259.00	95.00
280+00.00	280+50.00	50.00	143.00	0.00	42.00	1.00	961.00	202.00	817.00	172.00	40.00	16.00	777.00	156.00
280+50.00	281+00.00	50.00	136.00	2.00	45.00	0.00	835.00	236.00	710.00	201.00	16.00	1.00	694.00	200.00
281+00.00	281+50.00	50.00	121.00	2.00	40.00	0.00	597.00	250.00	507.00	213.00	4.00	0.00	503.00	213.00
281+50.00	282+00.00	50.00	106.00	0.00	34.00	0.00	425.00	201.00	361.00	171.00	1.00	0.00	360.00	171.00
282+00.00	282+50.00	50.00	48.00	0.00	19.00	0.00	224.00	151.00	190.00	128.00	2.00	0.00	188.00	128.00
282+50.00	283+00.00	50.00	2.00	0.00	5.00	0.00	65.00	119.00	55.00	101.00	12.00	0.00	43.00	101.00
283+00.00	283+50.00	50.00	3.00	0.00	2.00	0.00	45.00	108.00	38.00	92.00	16.00	0.00	22.00	92.00
283+50.00	283+66.26	16.26	1.00	0.00	1.00	0.00	14.00	36.00	12.00	30.00	5.00	0.00	7.00	30.00
SUBTOTAL			1628.00	123.00	334.00	144.00	12078.00	3143.00	10267.00	2672.00	262.00	218.00	10005.00	2454.00

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USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
	DRAWN - MAC	REVISED -
PLOT SCALE = 40,0000 */ in.	CHECKED - AMB	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-2757 IL 171 OVER US 45			
EARTHWORK			
SCALE: 1"=20'	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	12
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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PROJECT: 2020\10\20\2020\10\20 - IL 171 at LaGrange Road\Drawings\Current\Drawing\Files\CADD_Sheets\Roadway\109135720-Rte-45-Earthwork.dwg

STATION TO STATION		LENGTH (FT)	TOPSOIL EXCAVATION		TOPSOIL PLACEMENT		EARTH EXCAVATION		EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (85%)		EMBANKMENT		EARTHWORK BALANCE WASTE		
			(CUBIC YARDS) STAGE 1	(CUBIC YARDS) STAGE 2	(CUBIC YARDS) STAGE 1	(CUBIC YARDS) STAGE 2	(CUBIC YARDS) STAGE 1	(CUBIC YARDS) STAGE 2	(CUBIC YARDS) STAGE 1	(CUBIC YARDS) STAGE 2	(CUBIC YARDS) STAGE 1	(CUBIC YARDS) STAGE 2	(CUBIC YARDS) STAGE 1	(CUBIC YARDS) STAGE 2	
RAMP A															
2+50.00	3+00.00	50.00	6.00	0.00	0.00	0.00	141.00	0.00	120.00	0.00	5.00	0.00	115.00	0.00	
3+00.00	3+50.00	50.00	13.00	0.00	0.00	0.00	151.00	0.00	129.00	0.00	9.00	0.00	120.00	0.00	
3+50.00	4+00.00	50.00	23.00	0.00	4.00	0.00	71.00	0.00	61.00	0.00	50.00	0.00	11.00	0.00	
4+00.00	4+50.00	50.00	50.00	0.00	12.00	0.00	8.00	0.00	7.00	0.00	212.00	0.00	-205.00	0.00	
4+50.00	5+00.00	50.00	81.00	0.00	15.00	0.00	1.00	0.00	1.00	0.00	427.00	0.00	-426.00	0.00	
5+00.00	5+50.00	50.00	82.00	0.00	17.00	0.00	35.00	0.00	30.00	0.00	563.00	0.00	-533.00	0.00	
5+50.00	6+00.00	50.00	86.00	0.00	24.00	0.00	51.00	0.00	43.00	0.00	555.00	0.00	-512.00	0.00	
6+00.00	6+50.00	50.00	45.00	0.00	15.00	0.00	16.00	0.00	14.00	0.00	253.00	0.00	-239.00	0.00	
6+50.00	7+00.00	50.00	0.00	38.00	0.00	22.00	0.00	122.00	0.00	104.00	0.00	631.00	0.00	-527.00	
7+00.00	7+50.00	50.00	0.00	125.00	0.00	49.00	0.00	372.00	0.00	316.00	0.00	2410.00	0.00	-2094.00	
7+50.00	8+00.00	50.00	0.00	168.00	0.00	58.00	0.00	306.00	0.00	261.00	0.00	2244.00	0.00	-1983.00	
8+00.00	8+50.00	50.00	0.00	112.00	0.00	34.00	0.00	160.00	0.00	136.00	0.00	480.00	0.00	-344.00	
8+50.00	9+00.00	50.00	0.00	69.00	0.00	10.00	0.00	212.00	0.00	180.00	0.00	45.00	0.00	135.00	
9+00.00	9+50.00	50.00	0.00	74.00	0.00	14.00	0.00	238.00	0.00	202.00	0.00	55.00	0.00	147.00	
9+50.00	10+00.00	50.00	0.00	69.00	0.00	15.00	0.00	272.00	0.00	231.00	0.00	49.00	0.00	182.00	
10+00.00	10+50.00	50.00	0.00	73.00	0.00	21.00	0.00	268.00	0.00	228.00	0.00	72.00	0.00	156.00	
10+50.00	11+00.00	50.00	0.00	81.00	0.00	25.00	0.00	243.00	0.00	206.00	0.00	94.00	0.00	117.00	
11+00.00	11+50.00	50.00	0.00	75.00	0.00	21.00	0.00	234.00	0.00	199.00	0.00	77.00	0.00	122.00	
11+50.00	12+00.00	50.00	0.00	67.00	0.00	18.00	0.00	212.00	0.00	181.00	0.00	64.00	0.00	117.00	
12+00.00	12+50.00	50.00	0.00	55.00	0.00	13.00	0.00	197.00	0.00	168.00	0.00	47.00	0.00	121.00	
12+50.00	13+00.00	50.00	0.00	39.00	0.00	8.00	0.00	202.00	0.00	172.00	0.00	25.00	0.00	147.00	
13+00.00	13+50.00	50.00	0.00	32.00	0.00	5.00	0.00	189.00	0.00	161.00	0.00	22.00	0.00	139.00	
13+50.00	14+00.00	50.00	0.00	30.00	0.00	3.00	0.00	172.00	0.00	147.00	0.00	23.00	0.00	124.00	
14+00.00	14+50.00	50.00	0.00	31.00	0.00	4.00	0.00	170.00	0.00	145.00	0.00	23.00	0.00	122.00	
14+50.00	15+00.00	50.00	0.00	35.00	0.00	5.00	0.00	177.00	0.00	151.00	0.00	24.00	0.00	127.00	
15+00.00	15+50.00	50.00	0.00	29.00	0.00	4.00	0.00	191.00	0.00	163.00	0.00	18.00	0.00	145.00	
15+50.00	15+78.39	28.39	0.00	12.00	0.00	2.00	0.00	114.00	0.00	97.00	0.00	6.00	0.00	91.00	
SUBTOTAL			386.00	1214.00	87.00	331.00	474.00	4051.00	405.00	3448.00	2074.00	6409.00	-1669.00	-2961.00	
TOTAL			2014.00	1337.00	421.00	475.00	12552.00	7194.00	10672.00	6120.00	2336.00	6627.00	8336.00	-507.00	

PAY ITEM	UNIT	QUANTITY	TOPSOIL PLACEMENT	TOPSOIL SURPLUS
EARTH EXCAVATION	CU YD	19746.00	-	-
TOPSOIL EXCAVATION AND PLACEMENT	CU YD	3351.00	896.00	2455.00

- ALL TOPSOIL RELATED WORK EXCLUDING HAULING AND DISPOSAL OF SURPLUS TOPSOIL WILL BE PAID FOR BY THE CUBIC YARD USING THE PAY ITEM: "TOPSOIL EXCAVATION AND PLACEMENT". THE QUANTITY MEASURED FOR PAYMENT IS BASED ON THE EXCAVATED TOPSOIL, NOT THE PLACED TOPSOIL.
- THE PROJECT HAS AN ESTIMATED SURPLUS OF 2,455 CUBIC YARDS (3351 - 896) OF TOPSOIL. THE CONTRACTOR IS RESPONSIBLE FOR HAULING AND DISPOSAL OF THE SURPLUS TOPSOIL OFF THE PROJECT SITE. THIS WORK WILL BE PAID FOR BY THE CUBIC YARD USING THE PAY ITEM "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL".
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ACCURATE RECORDS OF TOPSOIL EXCAVATION QUANTITY AS THE TOPSOIL IS STRIPPED. THE CONTRACTOR SHALL NOTE THE TOTAL VOLUME OF EXCAVATED TOPSOIL PLACED IN THE SPOIL PILES. IN THE EVENT THAT THE CONTRACTOR CALCULATES THAT THERE WILL BE INSUFFICIENT TOPSOIL VOLUME AVAILABLE TO MEET THE PROPOSED PLACEMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- ALL COSTS ASSOCIATED WITH CALCULATING THE AMOUNT OF TOPSOIL VERSUS THE AMOUNT OF TOPSOIL REQUIRED TO MEET PLAN AND ANY ACTION PLANS CREATED WILL NOT BE MEASURED FOR PAYMENT AND ARE CONSIDERED INCLUDED IN THE PAY ITEM: "TOPSOIL EXCAVATION AND PLACEMENT"



USER NAME = MichaelCzerpak
DESIGNED - MAC
DRAWN - MAC
PLOT SCALE = 40,0000 */ in.
CHECKED - AMB
PLOT DATE = 10/18/2023
DATE - 10/18/2023

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
EARTHWORK**

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	13
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

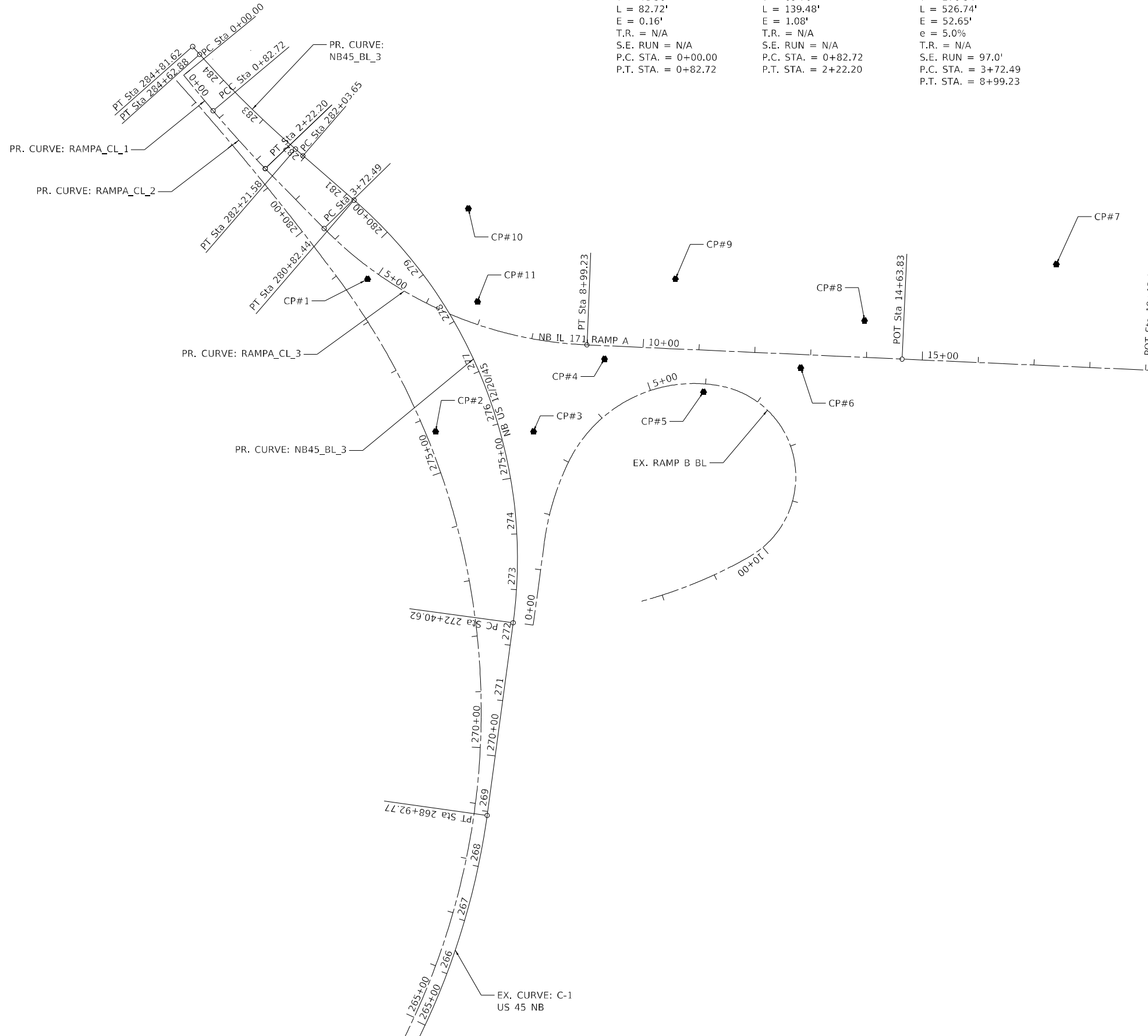
PR. CURVE RAMPA_CL_1
 PI STA. = 0+41.36
 $\Delta = 0^\circ 54' 47''$ (LT)
 D = 1° 06' 14"
 R = 5,190.13'
 T = 41.36'
 L = 82.72'
 E = 0.16'
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA. = 0+00.00
 P.T. STA. = 0+82.72

PR. CURVE RAMPA_CL_2
 PI STA. = 1+52.48
 $\Delta = 3^\circ 33' 07''$ (LT)
 D = 2° 32' 48"
 R = 2,249.94'
 T = 69.76'
 L = 139.48'
 E = 1.08'
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA. = 0+82.72
 P.T. STA. = 2+22.20

PR. CURVE RAMPA_CL_3
 PI STA. = 6+49.03
 $\Delta = 43^\circ 06' 50''$ (LT)
 D = 8° 11' 06"
 R = 700.00'
 T = 276.54'
 L = 526.74'
 E = 52.65'
 e = 5.0%
 T.R. = N/A
 S.E. RUN = 97.0'
 P.C. STA. = 3+72.49
 P.T. STA. = 8+99.23

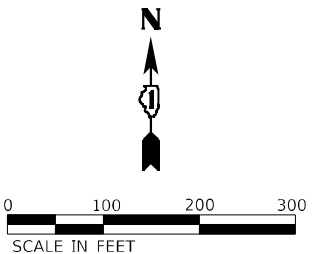
PR. CURVE NB45_BL_2
 PI STA. = 276+99.51
 $\Delta = 56^\circ 37' 48.87''$ (LT)
 D = 6° 43' 37.73"
 R = 851.71'
 T = 458.89'
 L = 841.82'
 E = 115.76'
 e = 5.7%
 T.R. = N/A
 S.E. RUN = 150'
 P.C. STA. = 272+40.62
 P.T. STA. = 280+82.44

PR. CURVE NB45_BL_3
 PI STA. = 283+42.39
 $\Delta = 7^\circ 09' 08.29''$ (RT)
 D = 2° 57' 50.57"
 R = 1,933.02'
 T = 120.81'
 L = 241.30"
 E = 3.77'
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA. = 282+21.58
 P.T. STA. = 284+62.88



ALIGNMENT COORDINATES - NB IL 171 RAMP A			
RAMP A	STATION	N	E
PC	0+00.00	1850602.7300	1114992.9000
PCC	0+82.72	1850538.9900	1115045.6200
PT	2+22.20	1850435.3700	1115138.9500
PC	3+72.49	1850328.2900	1115244.4100
PT	8+99.23	1850120.0900	1115714.7900
POT	14+63.83	1850094.6700	1116278.8200
POT	19+13.83	1850074.4097	1116728.3637

ALIGNMENT COORDINATES - NB US 12/20/45			
US 45 NB	STATION	N	E
PC	272+40.62	1849622.9200	1115582.7500
PT	280+82.44	1850379.0755	1115298.0812
PC	282+21.58	1850470.4633	1115193.1558
PT	284+62.88	18500639.8780	1115021.5467



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DRAWN - MAC	REVISED -	
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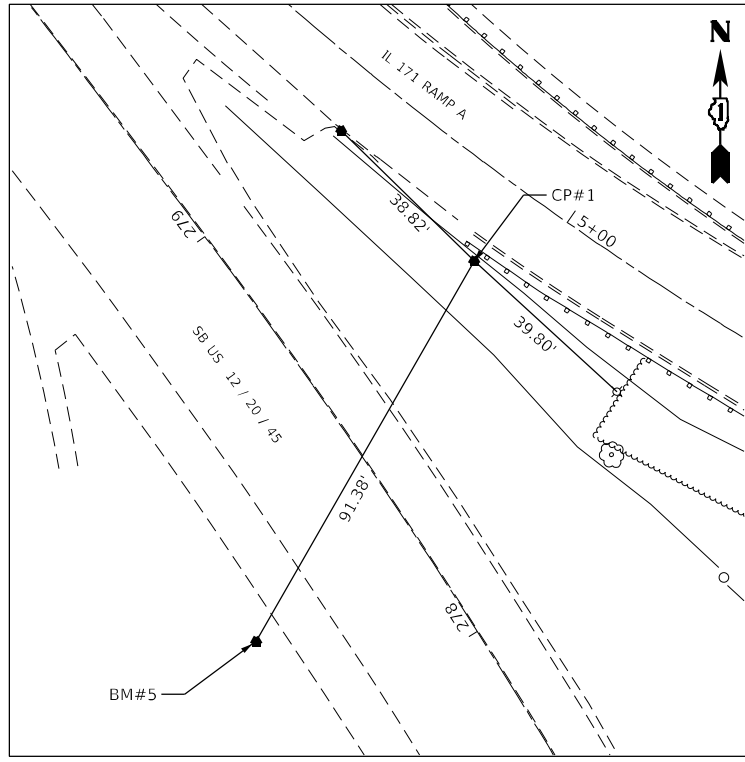
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-2757 IL 171 OVER US 45
ALIGNMENT AND TIES

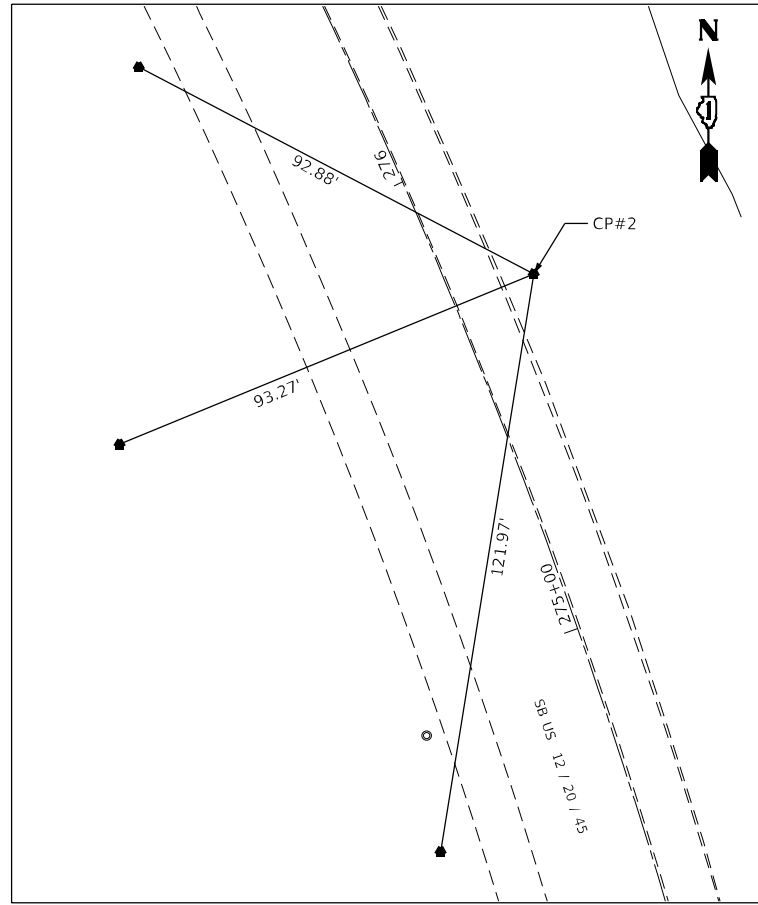
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	14
ILLINOIS FED. AID PROJECT				

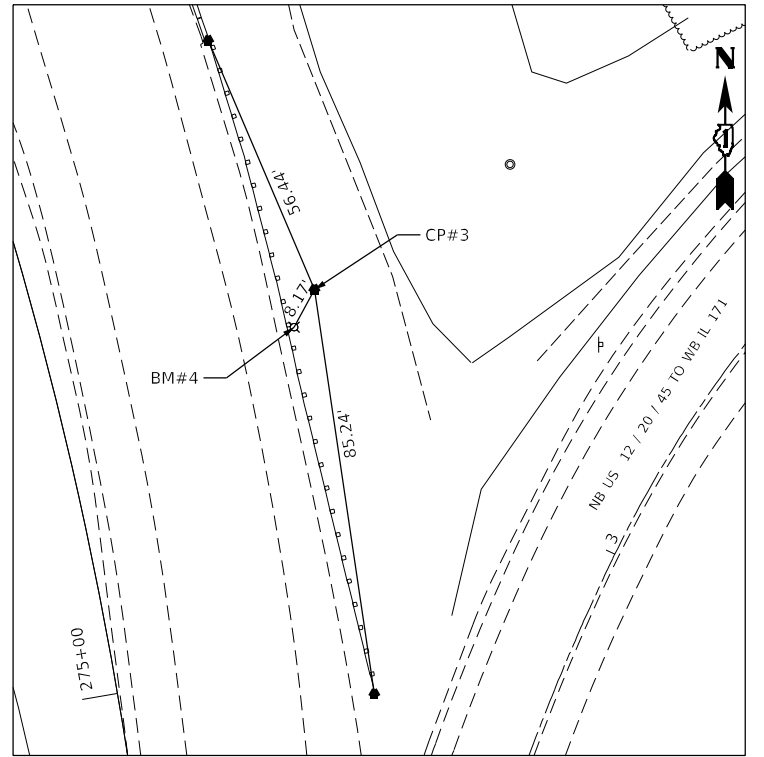
CONTRACT NO. 62K60



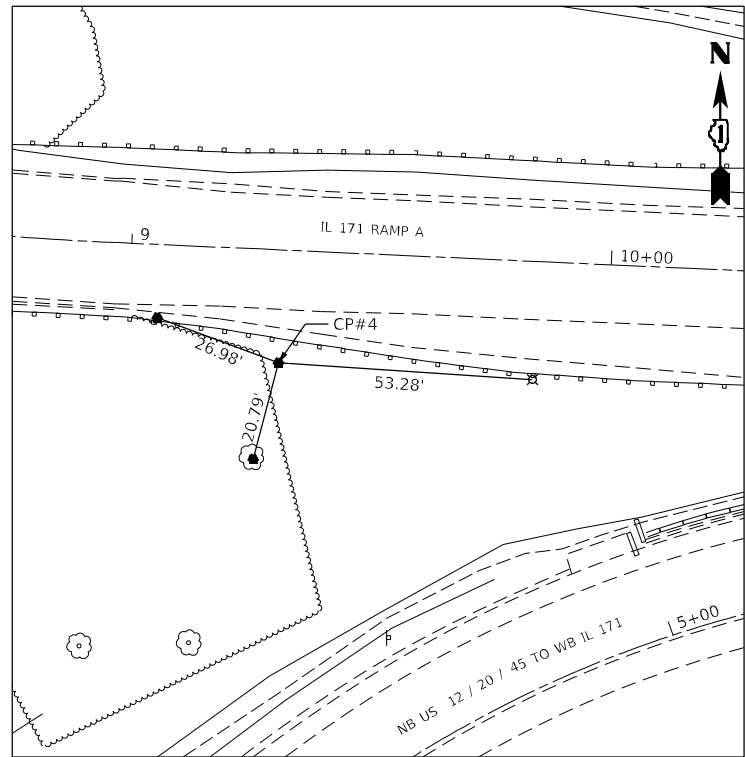
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 E 1.115322.248
 EL 609.131



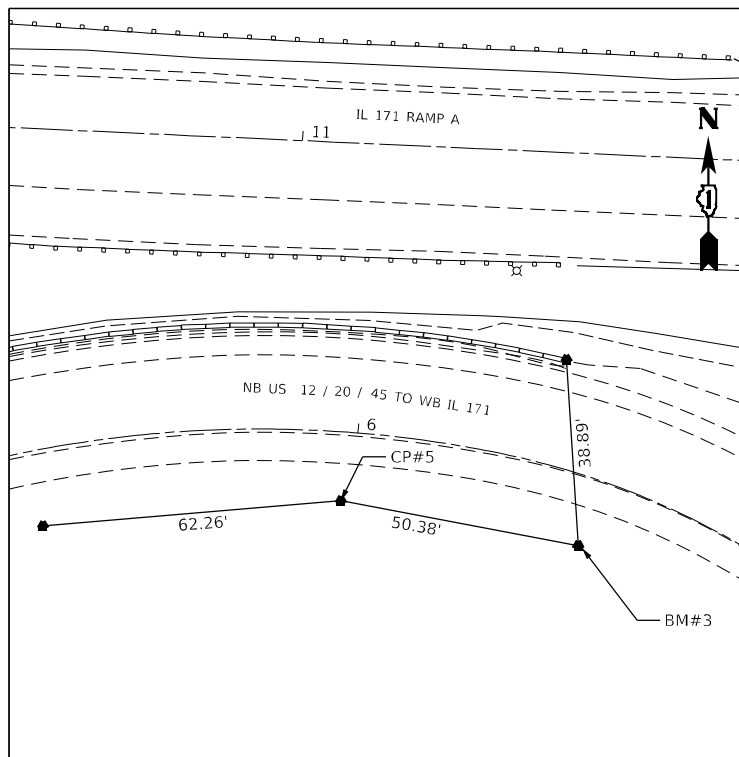
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 E 1.115443.923
 EL 604.260



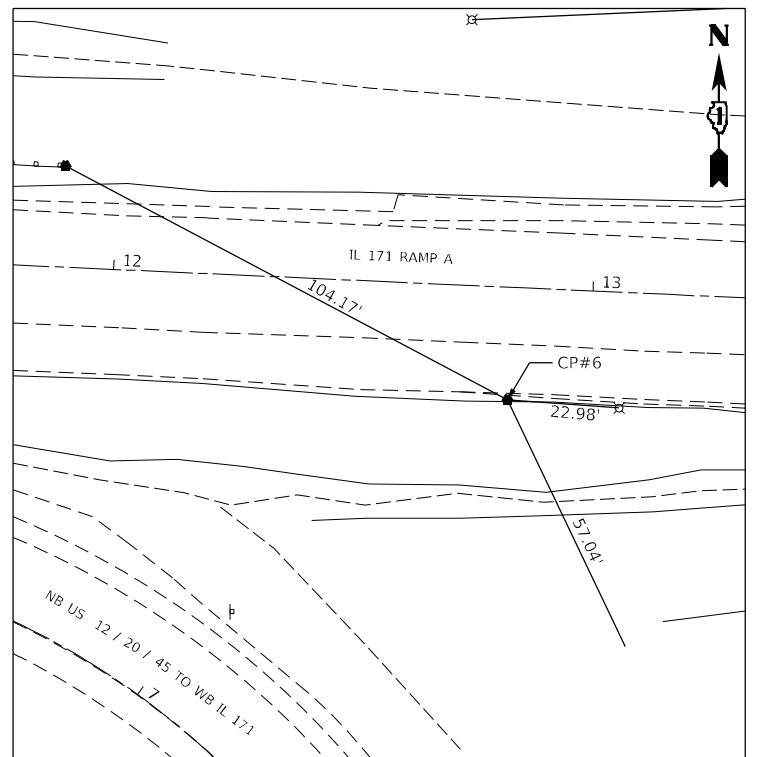
CONTROL POINT #3
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 E 1.115619.086
 EL 598.247



CONTROL POINT #4
 6N 185.0095.143
 E 1.115746.137
 EL 620.816



CONTROL POINT #5
 6N 185.0036.012
 E 1.116923.352
 EL 611.223



CONTROL POINT #6
 6N 185.0079.421
 E 1.116097.330
 EL 621.545

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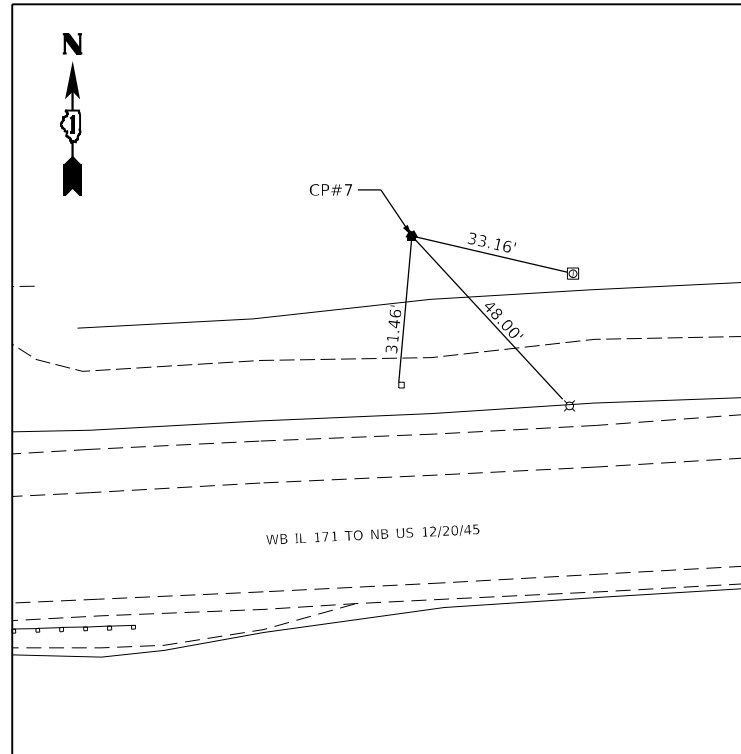
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DRAWN - MAC	REVISOR -	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

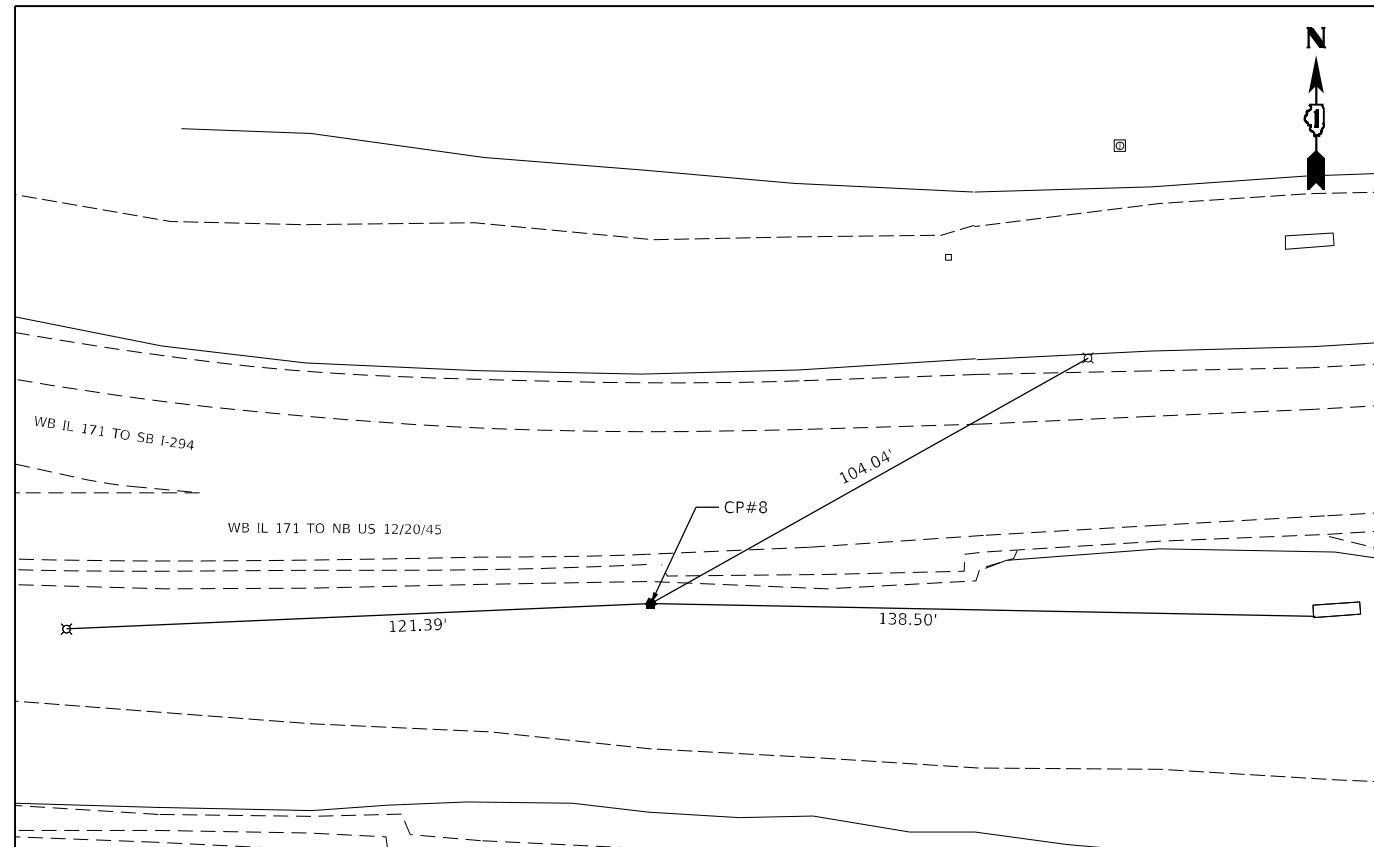
**SN 016-2757 IL 171 OVER US 45
 CONTROL POINTS AND BENCHMARKS**

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

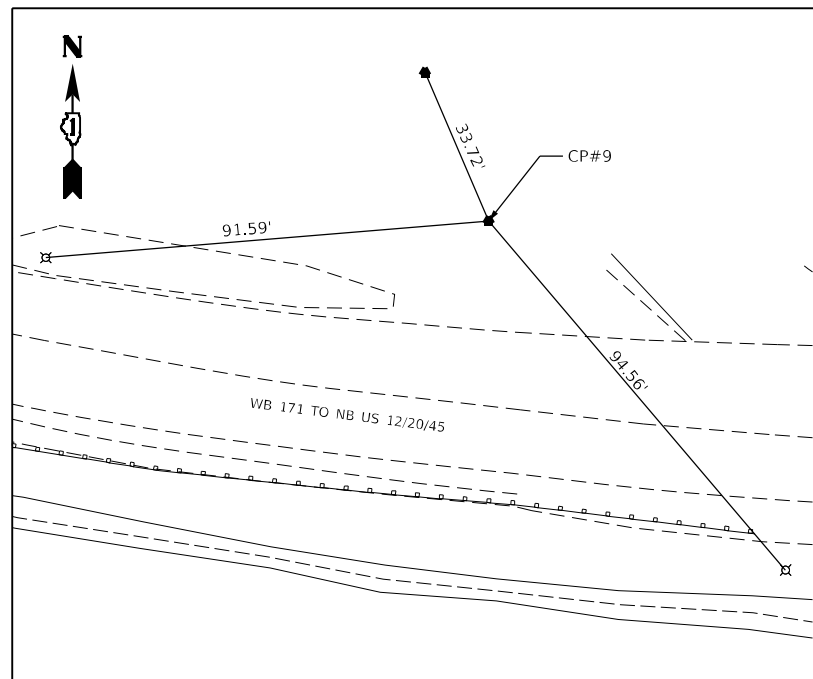
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	15
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



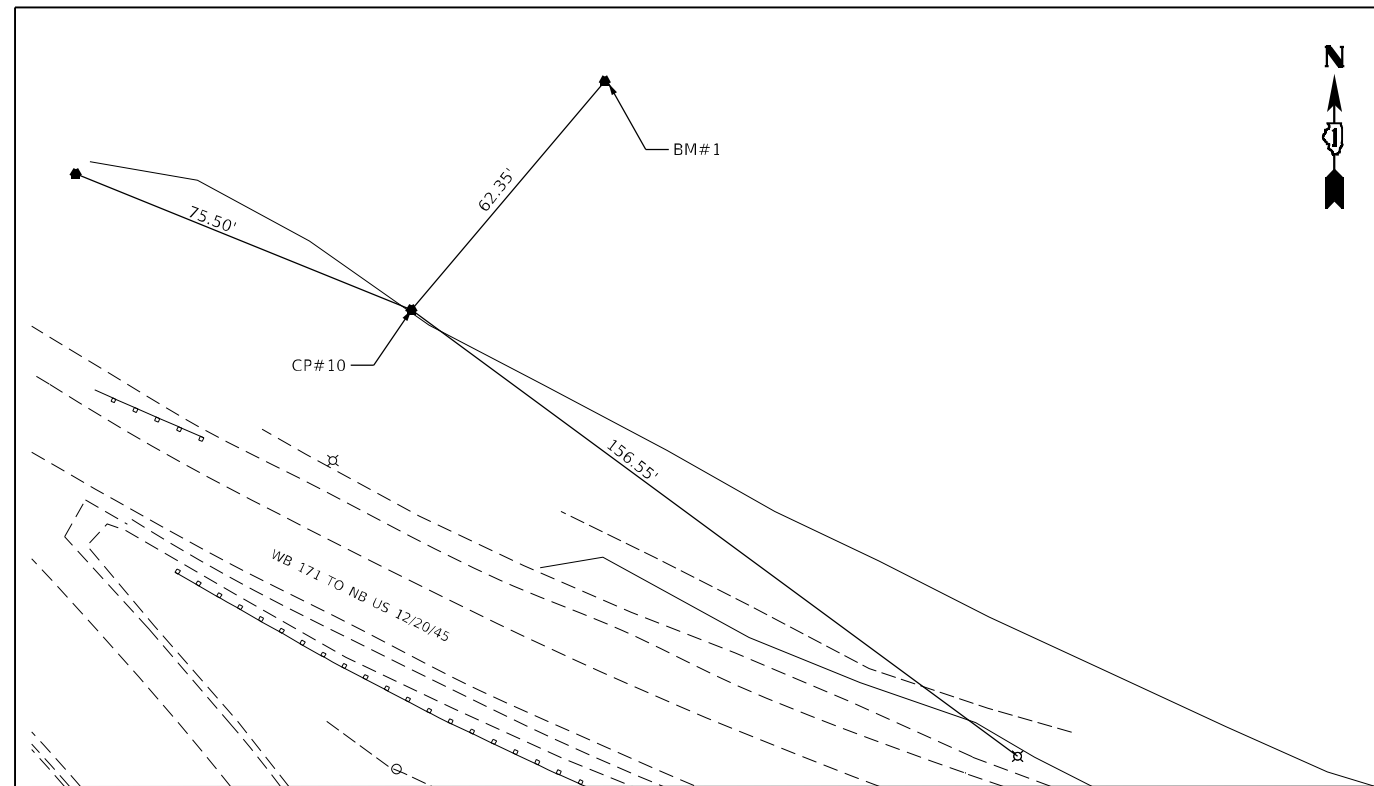
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 6N 185.0264.656
 E 1.116554.997
 EL 634.509



CONTROL POINT #8
 6N 185.0163.909
 E 1.11611.714
 EL 623.254



CONTROL POINT #9
 6N 185.0238.338
 E 1.115873.279
 EL 607.141



CONTROL POINT #10
 6N 185.0364.272
 E 1.115502.389
 EL 601.859

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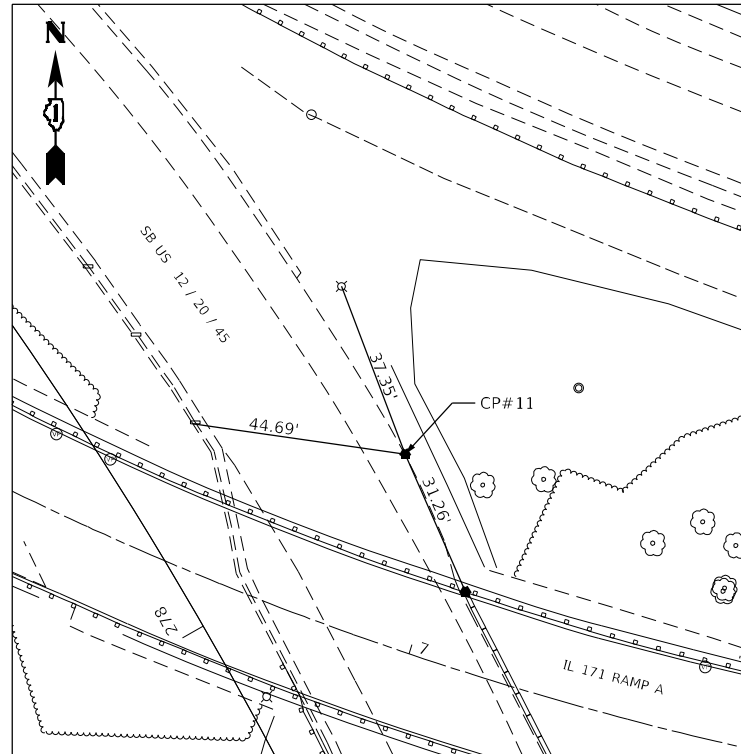
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DRAWN - MAC	REVISIONS -	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
 CONTROL POINTS AND BENCHMARKS**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	16
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



CONTROL POINT #11
 6N 185.0197.796
 E 1.115518.799
 EL 596.164

BENCHMARK #1

CHISEL IN EAST CORNER OF HEADWALL SOUTH SIDE I-294 EAST SIDE NB US 45 ON RAMP.
 ELEVATION = 600.814

BENCHMARK #2

CHISEL LIGHT POLE BASE BA 13 SOUTH SIDE US 45 NB ON RAMP.
 ELEVATION = 623.254

BENCHMARK #3

CHISEL NORTH SIDE CONCRETE LIGHT POLE BASE BLB 23 SOUTH SIDE IL-171 SB RAMP FROM NB US 45.
 ELEVATION = 611.223

BENCHMARK #4

CHISEL NORTH SIDE CONCRETE LIGHT POLE BASE BL B45 EAST SIDE NB US 45/1st POLE NORTH OF SB IL-171 RAMP.
 ELEVATION = 596.164

BENCHMARK #5

CHISEL EAST SIDE CONC. LIGHT POLE BASE BL A14 WEST SIDE SB US 45/1ST POLE SOUTH OF SB IL-171 RAMP.
 ELEVATION=604.255

BENCHMARK #6

CHISEL IN SW CORNER SOUTH CONCRETE BASE OVERHEAD SIGH OVER NB US 45/SB I-294 ON RAMP.
 ELEVATION=631.153

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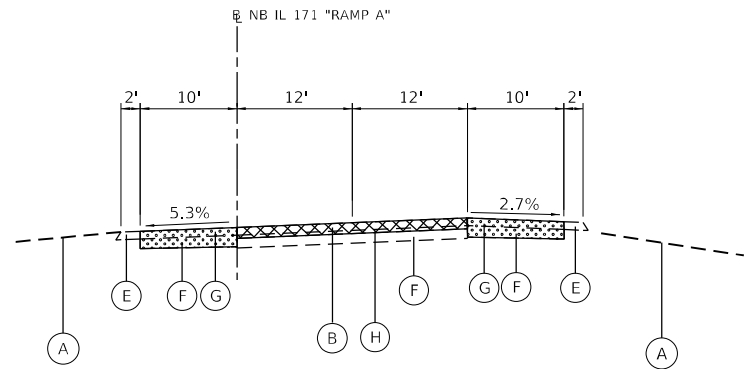
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DRAWN - MAC	REVISIONS -	
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PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

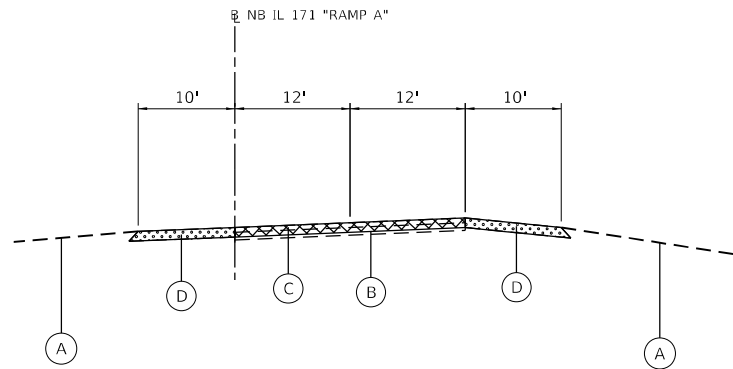
**SN 016-2757 IL 171 OVER US 45
 CONTROL POINTS AND BENCHMARKS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	17
CONTRACT NO. 62K60			ILLINOIS FED. AID PROJECT	



EXISTING TYPICAL SECTION
NB IL-171 RAMP A
STA 2+50 - STA 3+96



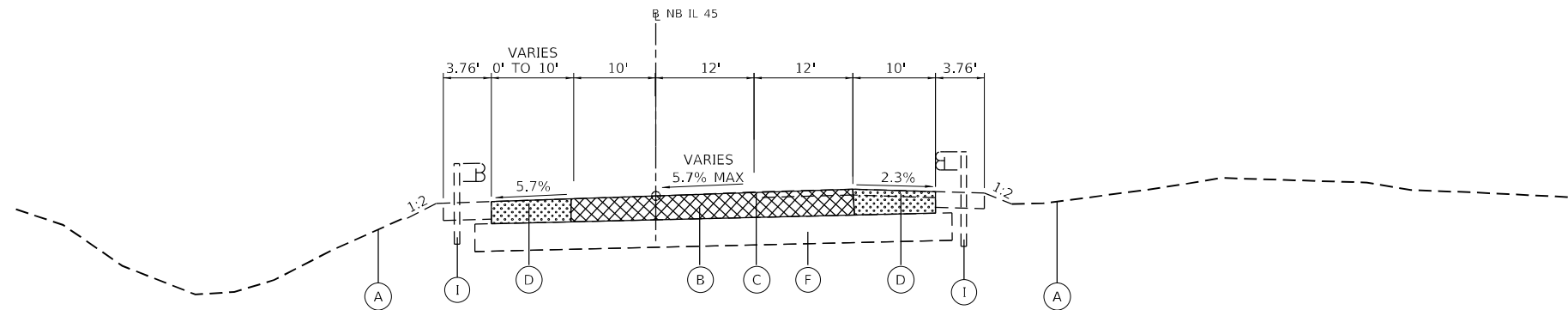
EXISTING TYPICAL SECTION
NB IL-171 RAMP A
STA 3+96 - STA 16+13
BRIDGE OMITTED FROM STA 5+15 TO STA 7+59

EXISTING LEGEND

- (A) EXISTING GROUND
- (B) EXISTING PCC PAVEMENT, 9" ±
- (C) EXISTING HMA SURFACE 5 1/2"±
- (D) EXISTING HMA SHOULDER 10"±
- (E) EXISTING AGGREGATE SHOULDER
- (F) EXISTING AGGREGATE SUBGRADE
- (G) EXISTING PCC SHOULDER
- (H) EXISTING STABILIZED SUBBASE 4"
- (I) EXISTING GAURDRAIL TO BE REMOVED

LEGEND

- PAVEMENT REMOVAL
- COMBINATION CONCRETE CURB AND GUTTER REMOVAL
- PAVED SHOULDER REMOVAL



EXISTING TYPICAL SECTION
US 12/20/45
STA 272+89 - STA 283+66

MODEL: Default
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 550 W. JACKSON BLVD. SUITE 500 CHICAGO IL 60661 P312-455-4010 F312-455-4015



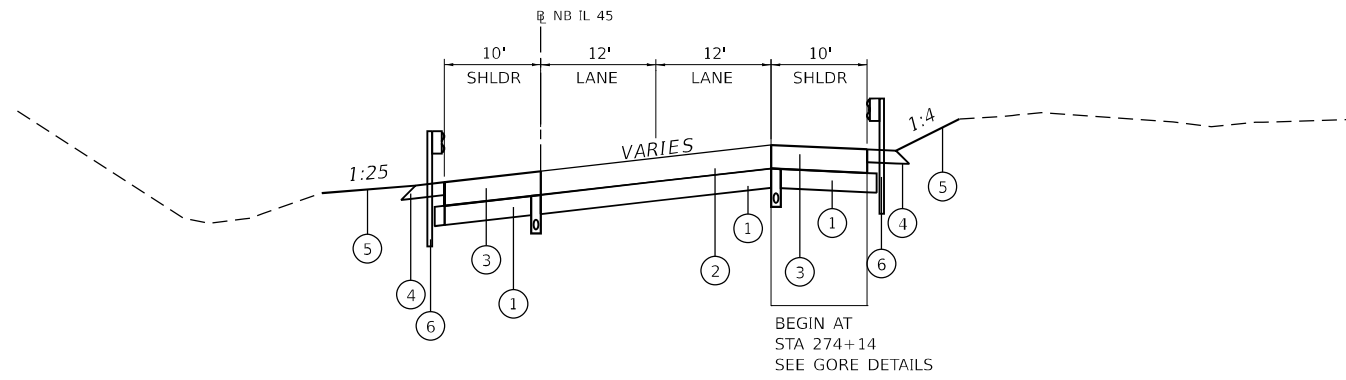
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PLOT DATE = 10/18/2023	CHECKED - MPV	REVISED -
	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
EXISTING TYPICAL SECTIONS**

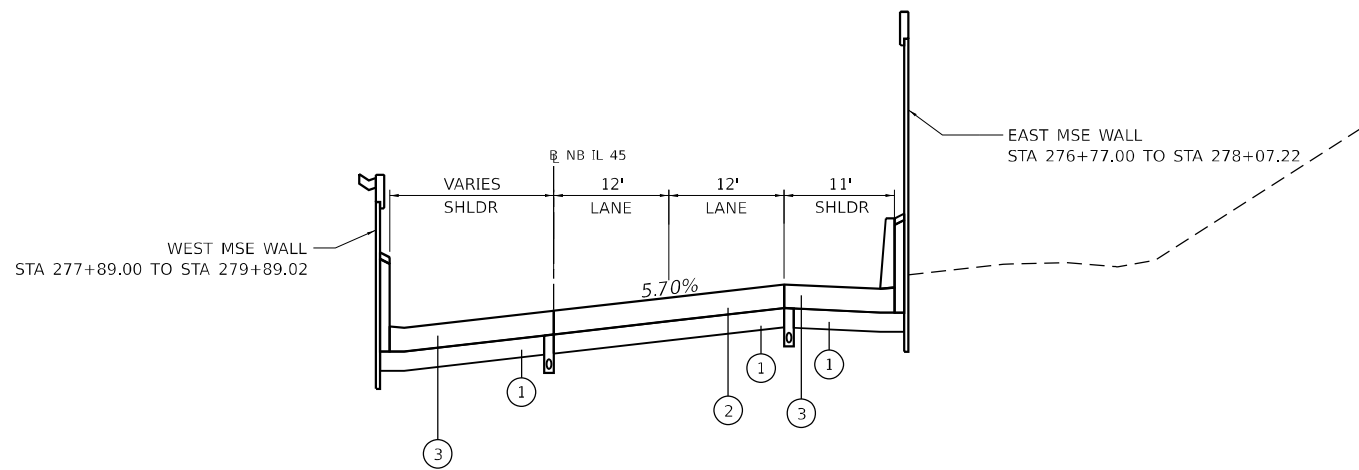
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	18
CONTRACT NO. 62K60			ILLINOIS FED. AID PROJECT	



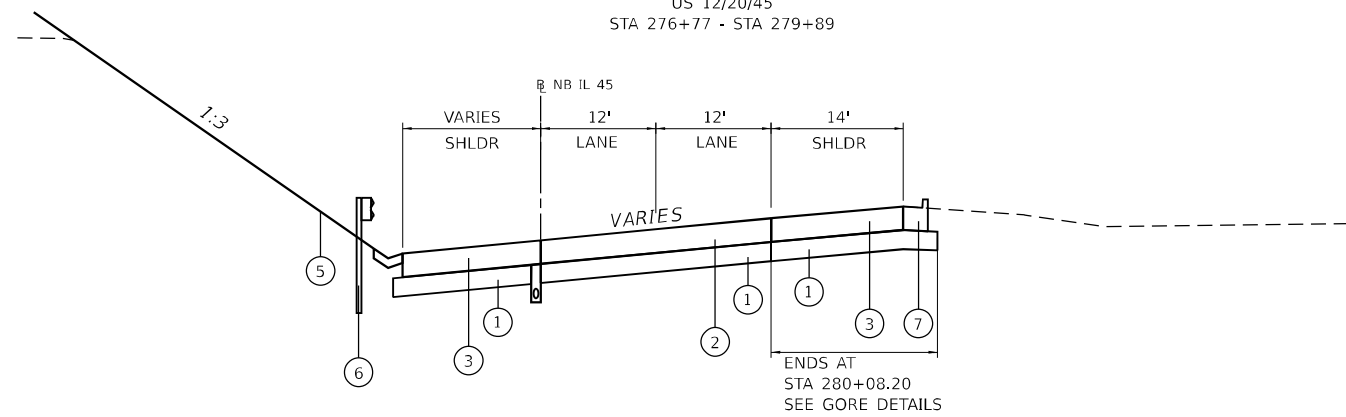
PROPOSED TYPICAL SECTION

US 12/20/45
STA 272+89 - STA 276+77



PROPOSED TYPICAL SECTION

US 12/20/45
STA 276+77 - STA 279+89



PROPOSED TYPICAL SECTION

US 12/20/45
STA 279+89 - STA 283+66

PROPOSED LEGEND

- ① AGGREGATE SUBGRADE IMPROVEMENT 12" (SQ YD)
- ② HOT-MIX ASPHALT PAVEMENT (FULL DEPTH) 14 3/4"
- ③ HMA SHOULDER 14 3/4"
- ④ AGGREGATE SHOULDER 8"
- ⑤ SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 4"
- ⑥ PROPOSED GUARDRAIL
- ⑦ COMBINATION CONCRETE GURB & GUTTER, TYPE M-4.24

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
US 12/20/45 AND IL 171 RAMP A - HMA PAVEMENT (FD) 14 3/4"	AIR VOIDS @ NDES	QMP
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, 9.5, MIX, "F", N80, 2"	3.5% @ 80 GYR	QC/QA
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"	4% @ 90 GYR	QC/QA
HOT-MIX ASPHALT BASE COURSE, 10 1/2" (HMA BINDER IL-19.0)	4% @ 90 GYR	QCP
HOT-MIX ASPHALT SHOULDERS, 14 3/4"		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"	4% @ 70 GYR	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 12 3/4"	4% @ 70 GYR	QC/QA
PAVEMENT CONNECTOR (HMA) (IL 171 RAMP A)		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, 9.5, MIX, "F", N80, 2"	3.5% @ 80 GYR	QC/QA
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"	4% @ 90 GYR	QC/QA
HMA BINDER COURSE, IL 19.0, N90, VAR DEPTH	4% @ 90 GYR	QC/QA
US 12/20/45 TEMPORARY PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"	4% @ 70 GYR	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, NS70, 8"	4% @ 70 GYR	QC/QA

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)

NOTES:

- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- 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 RECLAIMED MATERIALS SPECIFICATIONS.
- THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED UNDER THE TOP LIFT OF BINDER COURSE AND UNDER THE SURFACE COURSE.

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	DRAWN - SJP	REVISED -
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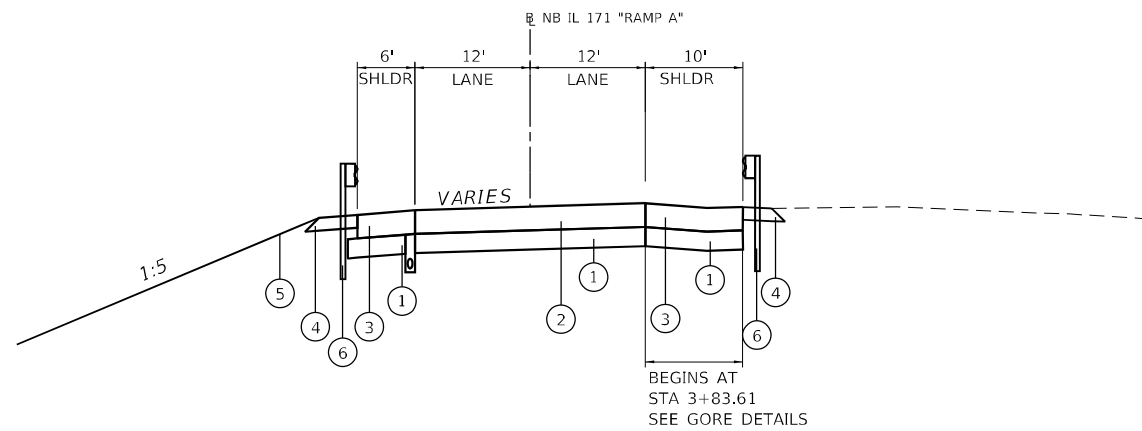
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
PROPOSED TYPICAL SECTIONS**

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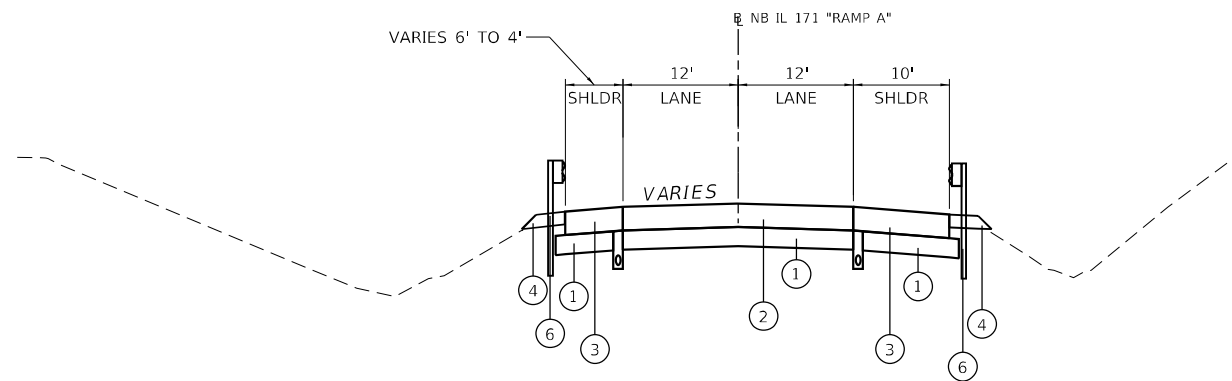
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	19
CONTRACT NO. 62K60			ILLINOIS FED. AID PROJECT	

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PROPOSED TYPICAL SECTION

NB IL-171 RAMP A
 STA 2+50 - STA 5+14.20
 BRIDGE OMITTED FROM STA 5+14.20 TO STA 7+67.35
 (SEE STRUCTURAL PLANS)



PROPOSED TYPICAL SECTION

NB IL-171 RAMP A
 STA 7+67.35 - STA 15+80.84

PROPOSED LEGEND

- ① AGGREGATE SUBGRADE IMPROVEMENT 12" (SQ YD)
- ② HOT-MIX ASPHALT PAVEMENT (FULL DEPTH) 14 3/4"
- ③ HMA SHOULDER 14 3/4"
- ④ AGGREGATE SHOULDER 8"
- ⑤ SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 4"
- ⑥ PROPOSED GUARDRAIL



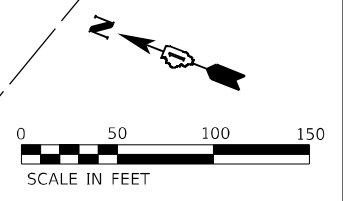
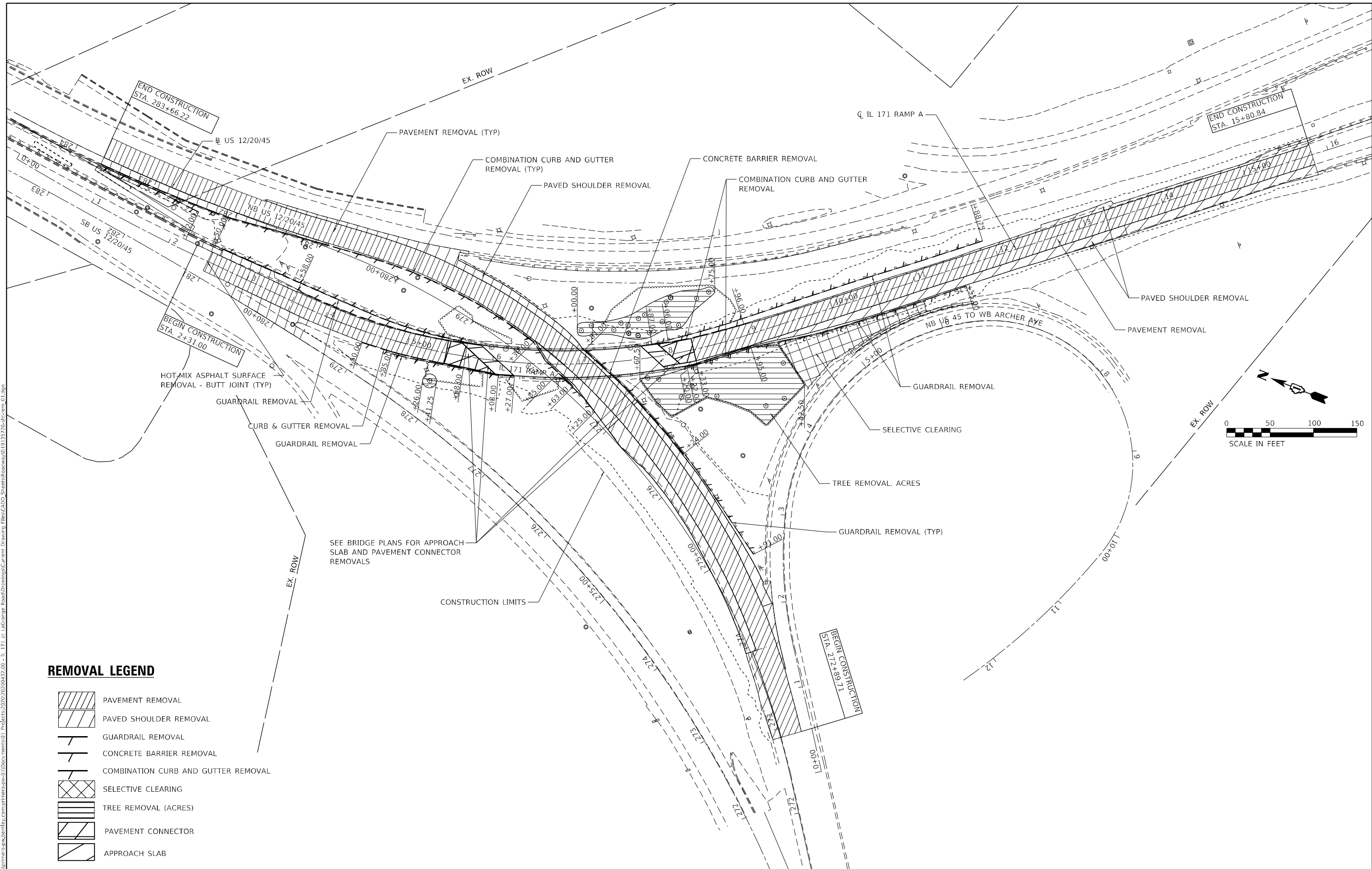
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PLOT DATE = 10/18/2023	CHECKED - MPV	REVISED -
	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-2757 IL 171 OVER US 45 PROPOSED TYPICAL SECTIONS		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	20
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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REMOVAL LEGEND

- PAVEMENT REMOVAL
- PAVED SHOULDER REMOVAL
- GUARDRAIL REMOVAL
- CONCRETE BARRIER REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- SELECTIVE CLEARING
- TREE REMOVAL (ACRES)
- PAVEMENT CONNECTOR
- APPROACH SLAB



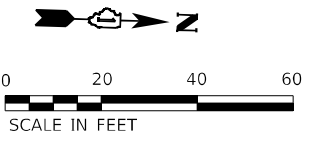
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DRAWN - MAC	REVISOR -	
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PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
REMOVAL PLAN**

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

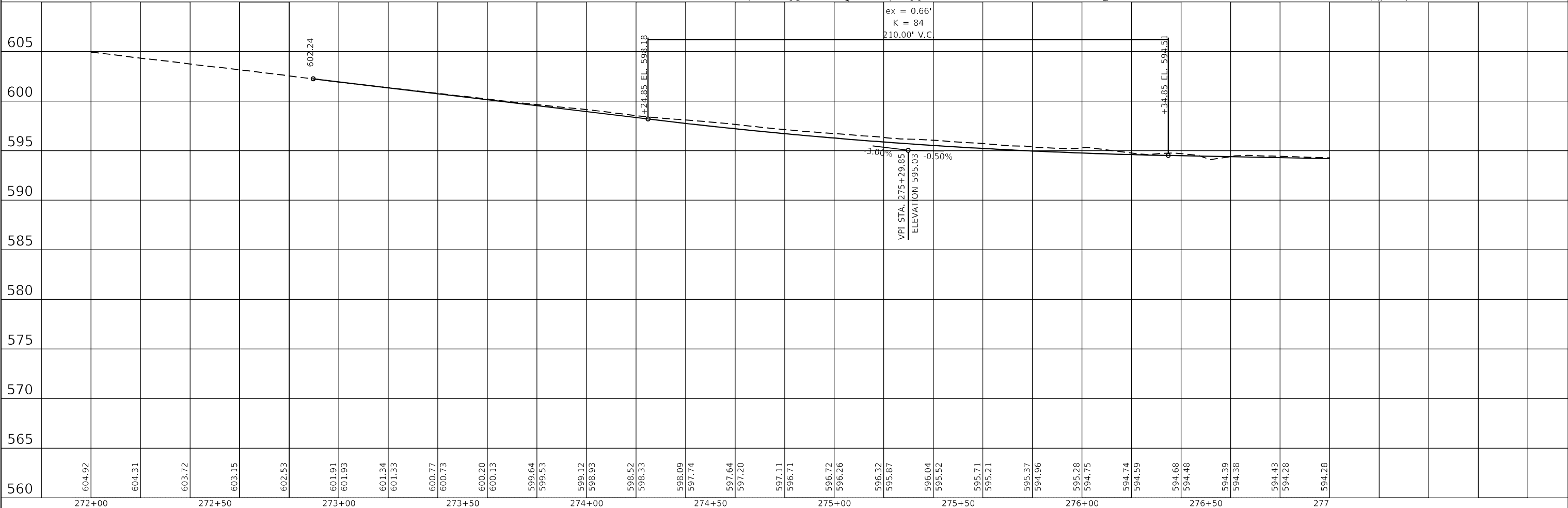
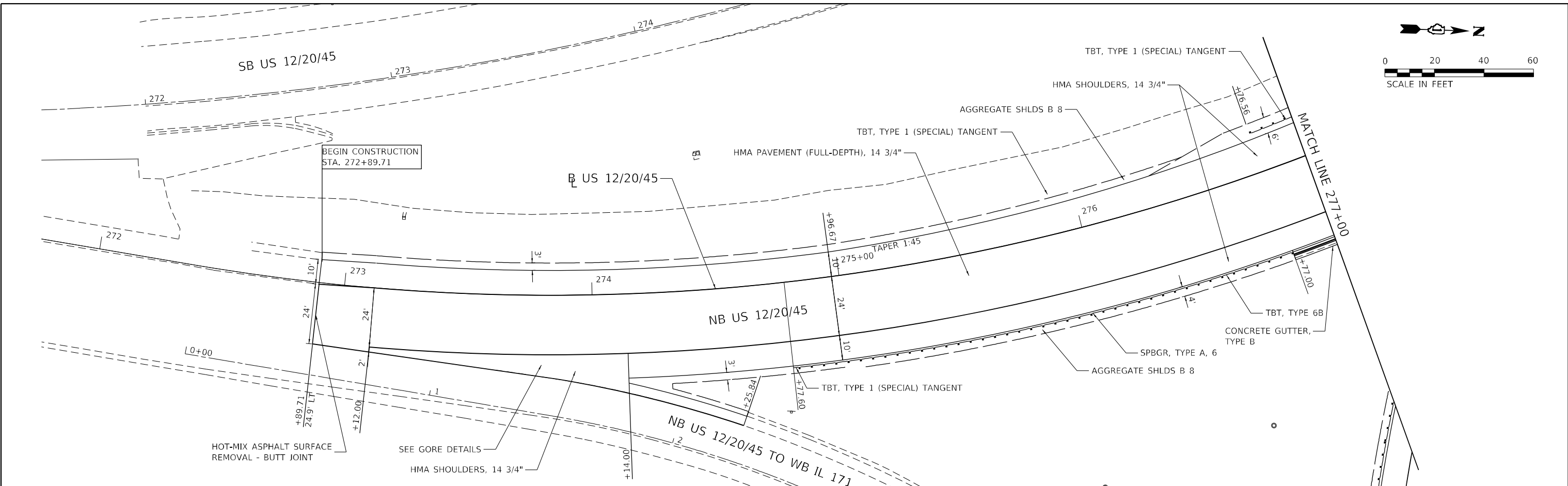
F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 21
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	ALIGNED	
	CHECKED	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
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	STRUCTURE NOTATIONS CHECKED	

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272+00	272+50	273+00	273+50	274+00	274+50	275+00	275+50	276+00	276+50	277																																				

garza karhoff
 ENGINEERING, LLC

USER NAME = MichaelCzerpak	DESIGNED - MAC	REVISED -
	DRAWN - MAC	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - AMB	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-2757 IL 171 OVER US 45	
NB US 1220/45	
SCALE: 1"=20'	SHEET 1 OF 3 SHEETS
STA.	TO STA.

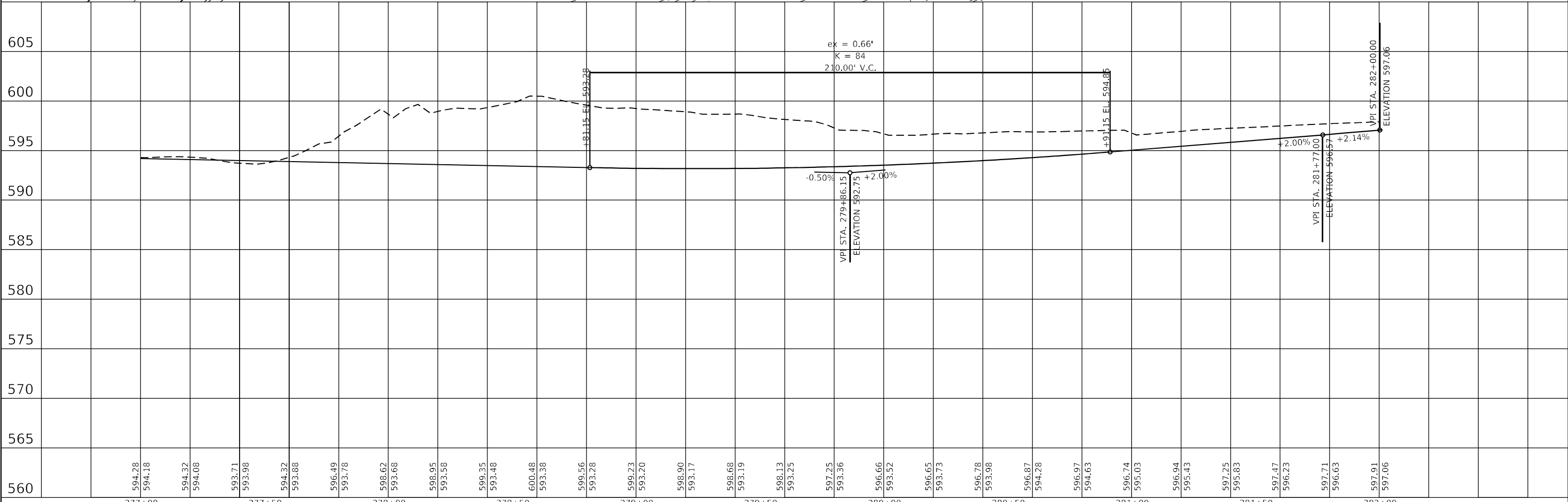
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			CONTRACT NO. 62K60	
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	BY	DATE
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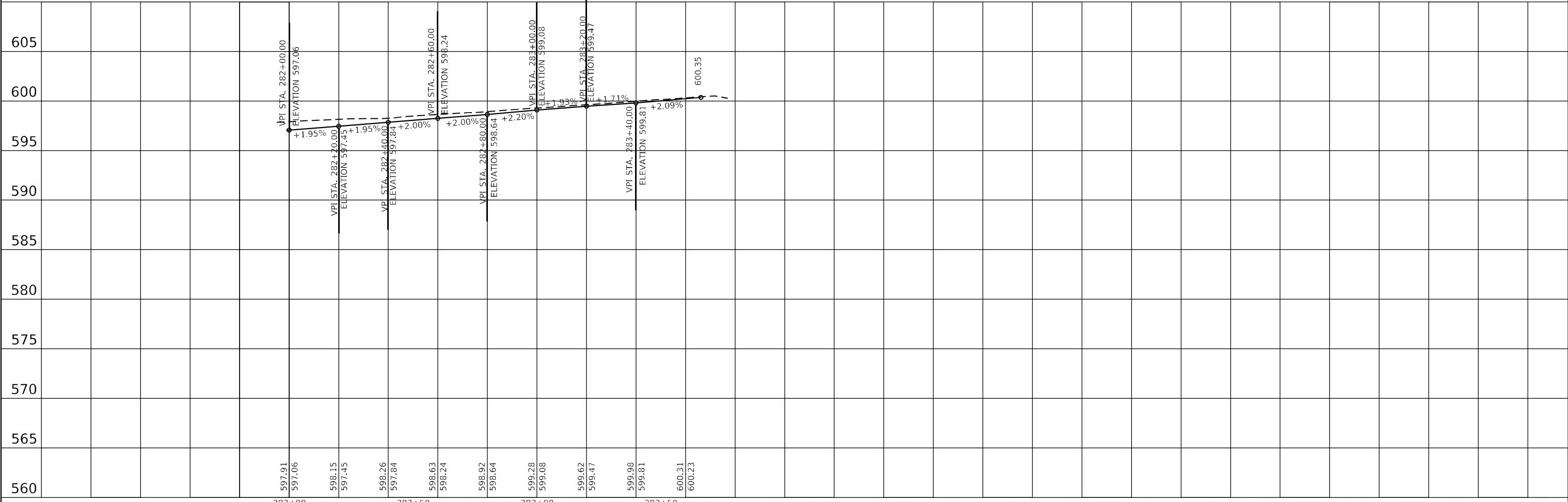
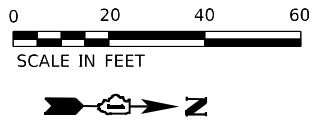
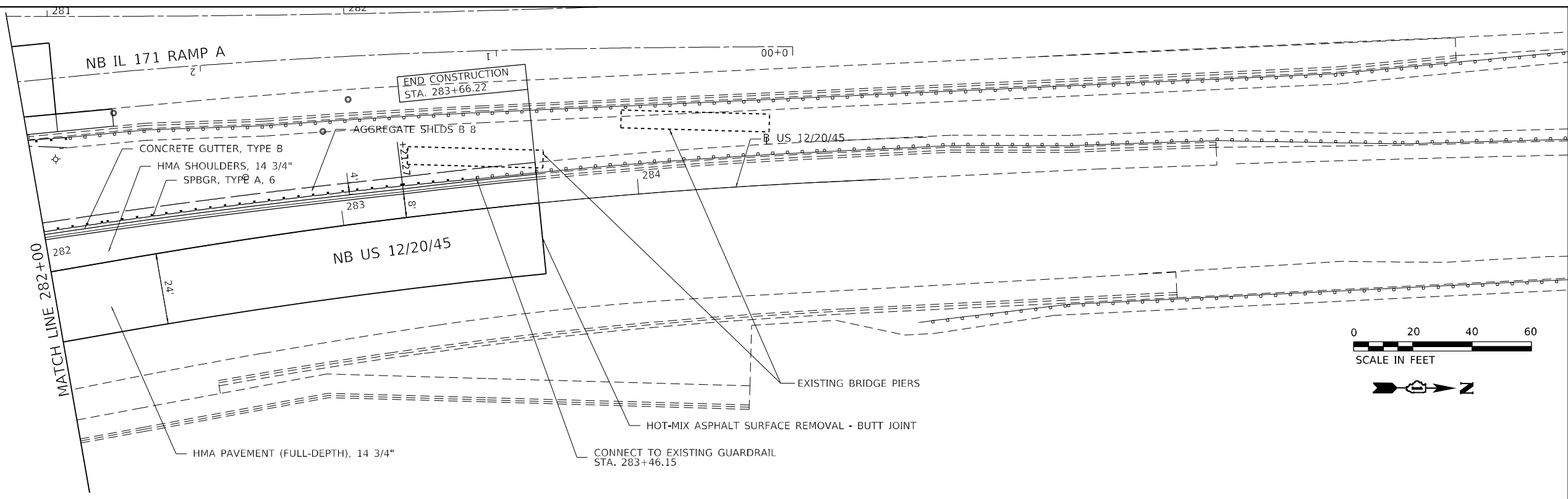


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	PLOT SCALE = 40,0000 * / in.	CHECKED - AMB	REVISED -		2019-187-B	COOK	153	23				
	PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -		CONTRACT NO. 62K60							
					SCALE: SHEET2 OF3 SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT							

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
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	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
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USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

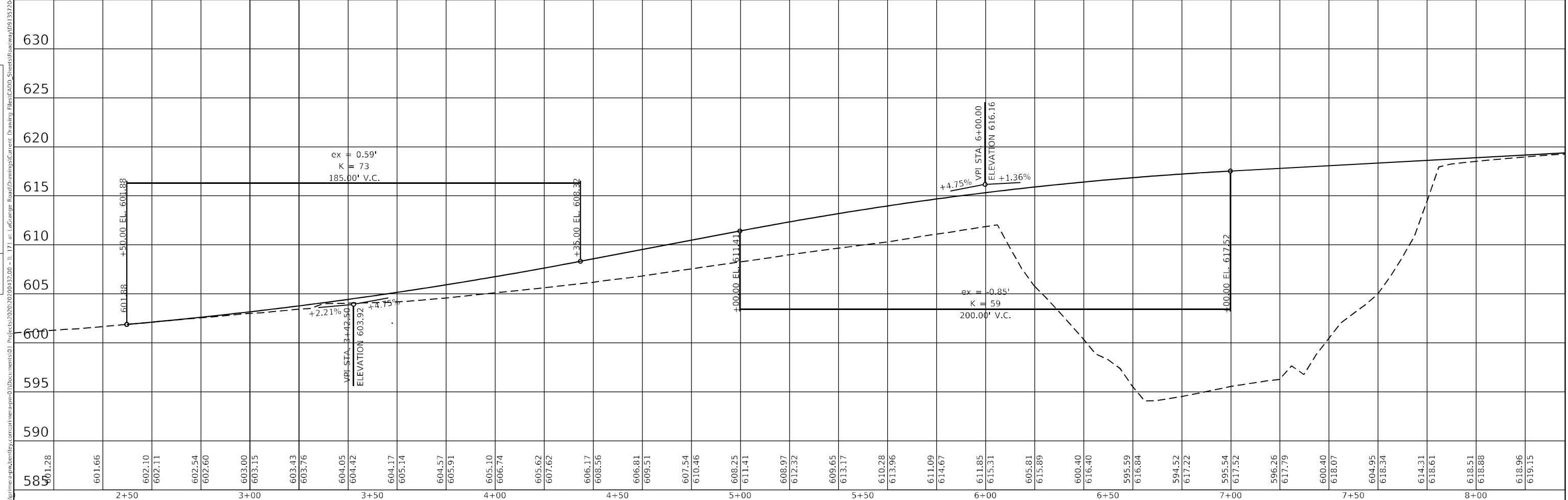
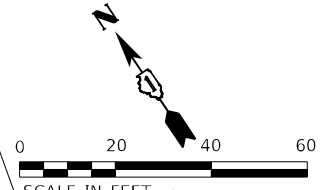
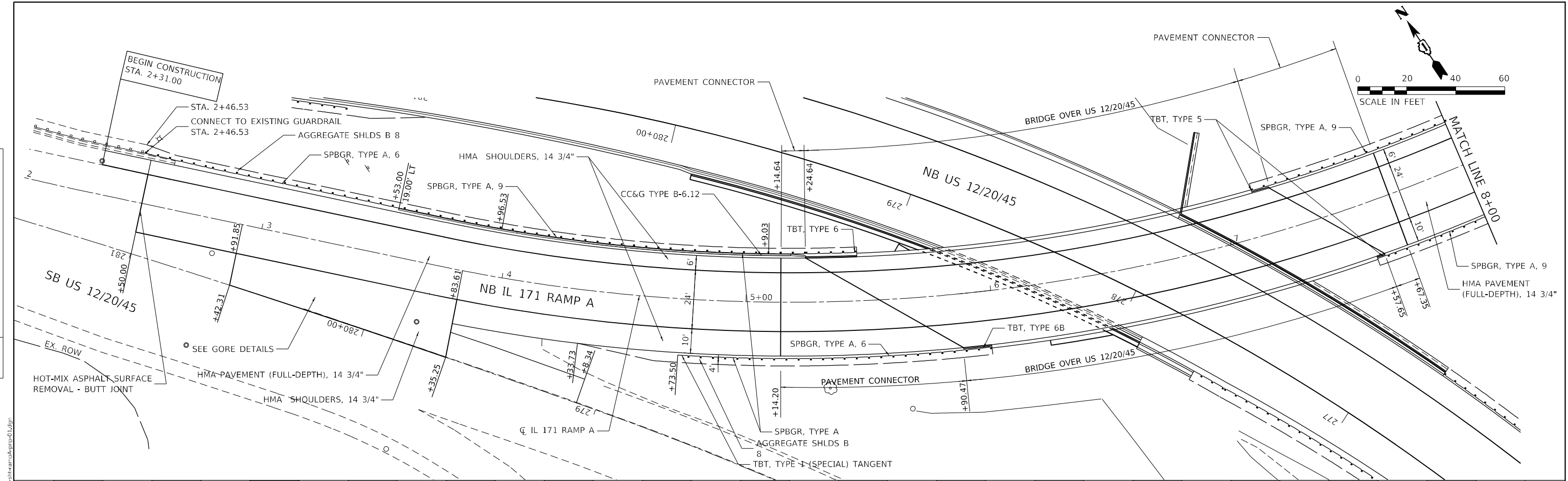
**SN 016-2757 IL 171 OVER US 45
 PROPOSED PLAN AND PROFILE - US 122045**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2019-187-B	COOK	153	24
			CONTRACT NO. 62K60	
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATION	
	CADD FILE NAME	
	NO.	



garza karhoff
ENGINEERING, LLC

USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISIONS
PLOT SCALE = 40,0000' / in.	DRAWN - MAC	REVISIONS
PLOT DATE = 10/18/2023	CHECKED - AMB	REVISIONS
	DATE - 10/18/2023	REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
PROPOSED PLAN AND PROFILE - RAMP A**

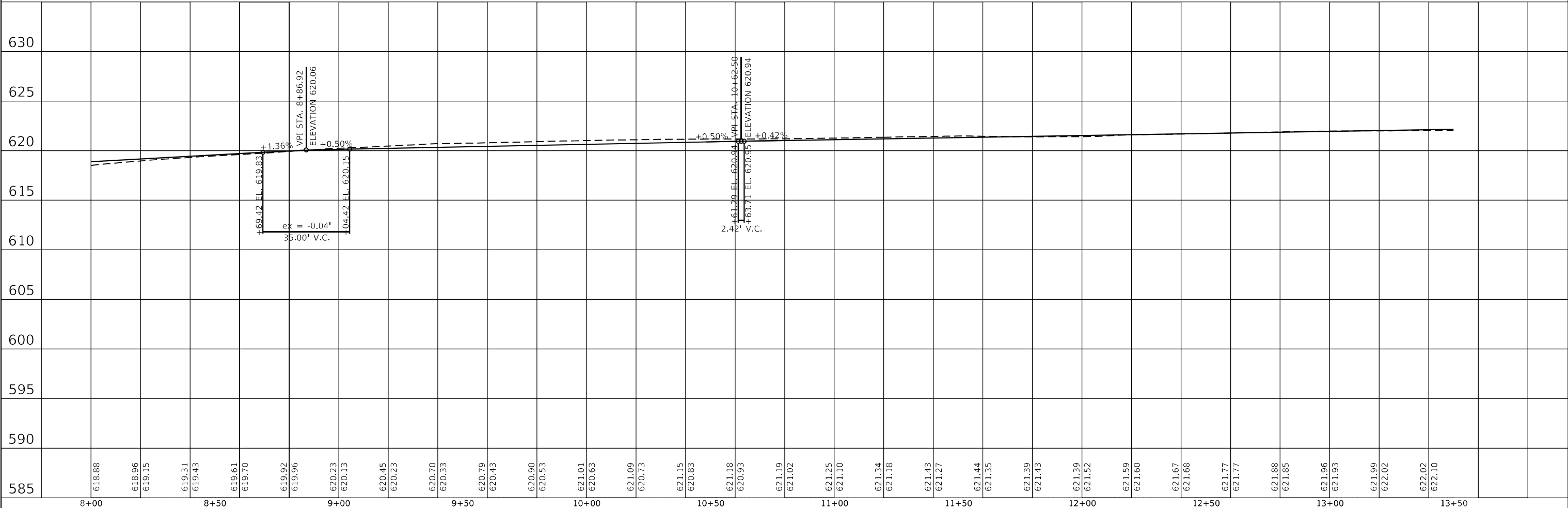
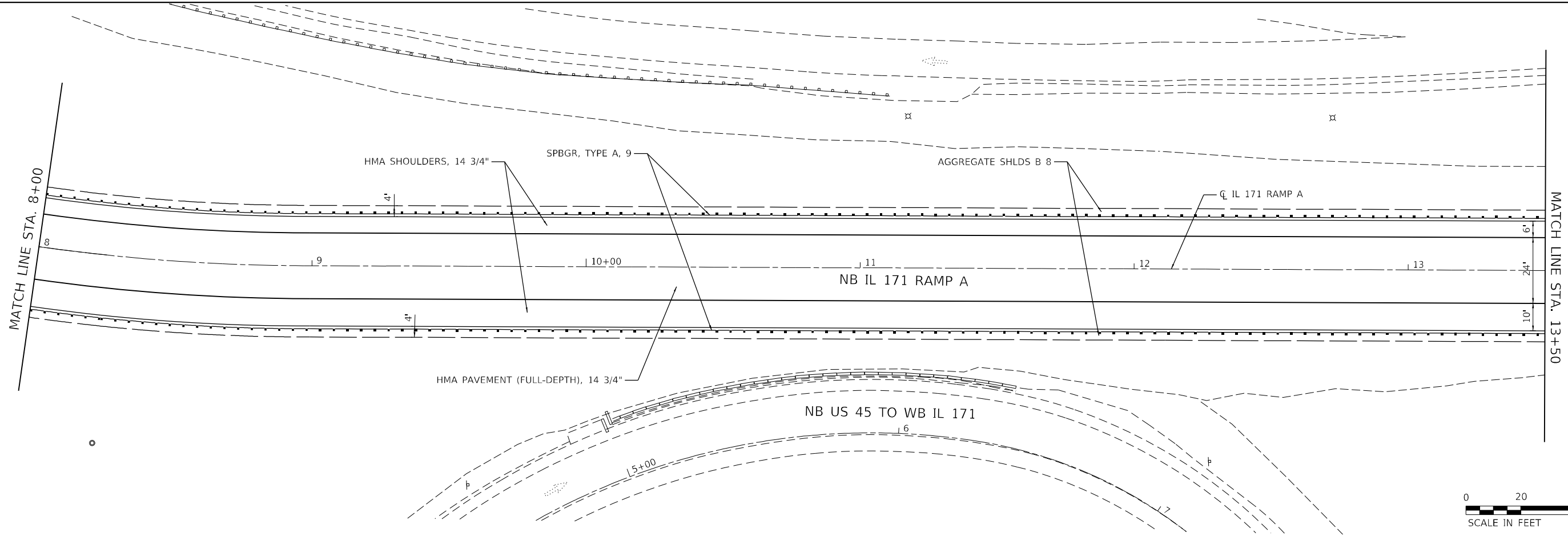
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	25
CONTRACT NO62K60				
ILLINOIS FED. AID PROJECT				

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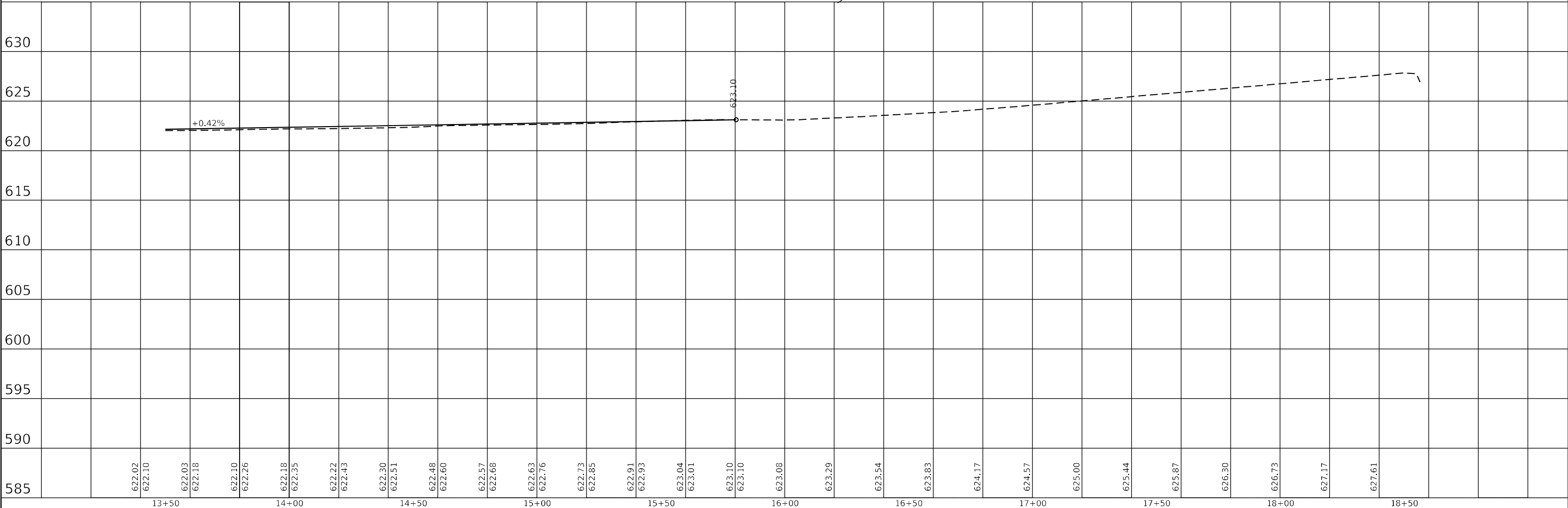
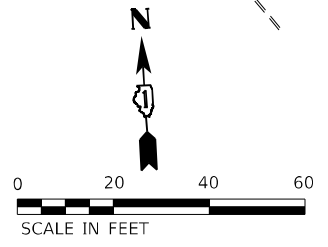
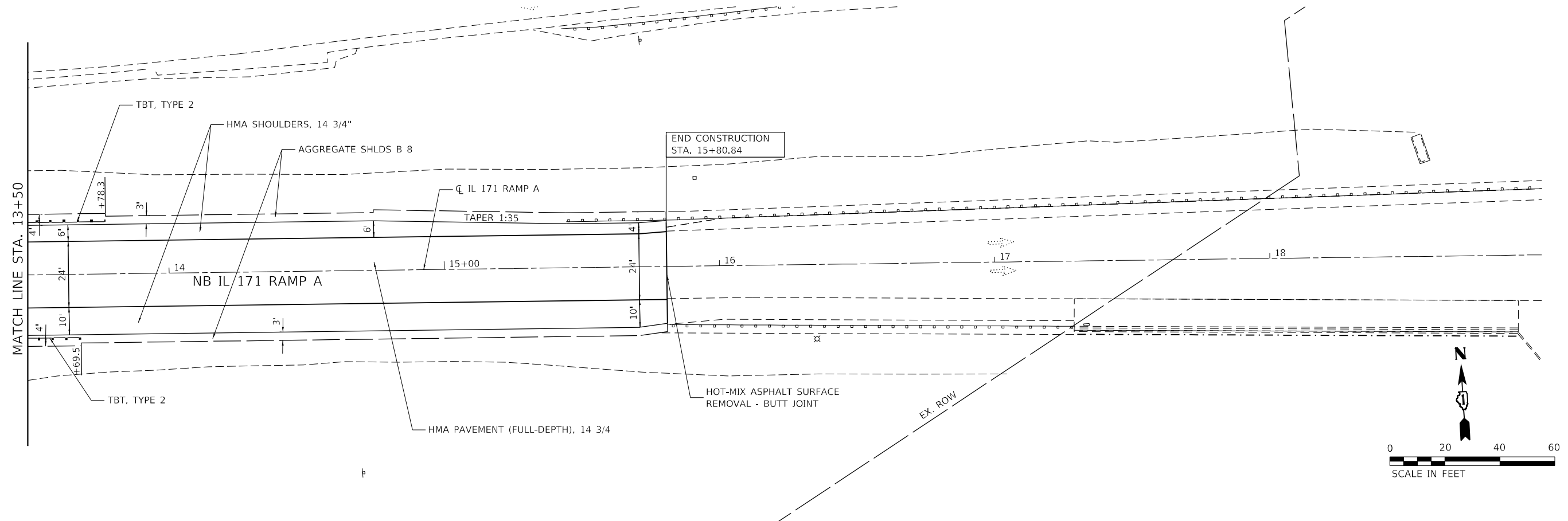


	USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 016-2757 IL 171 OVER US 45 PROPOSED PLAN AND PROFILE - RAMP A	F.R.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 26			
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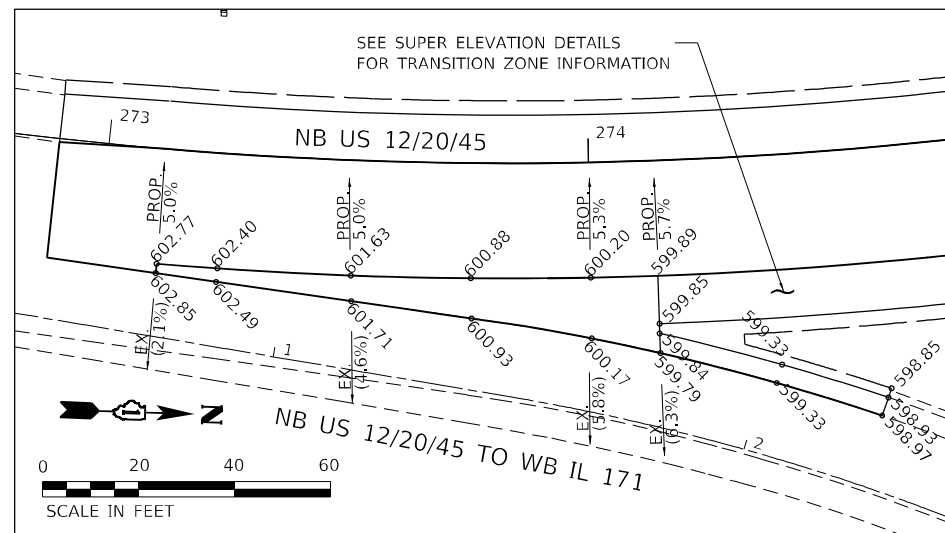
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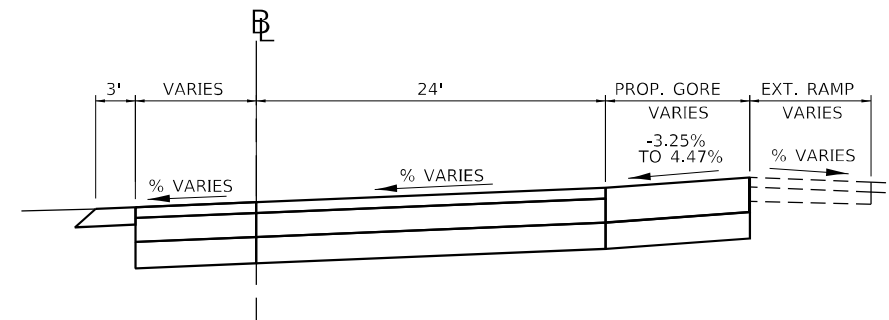


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	ILLINOIS FED. AID PROJECT											

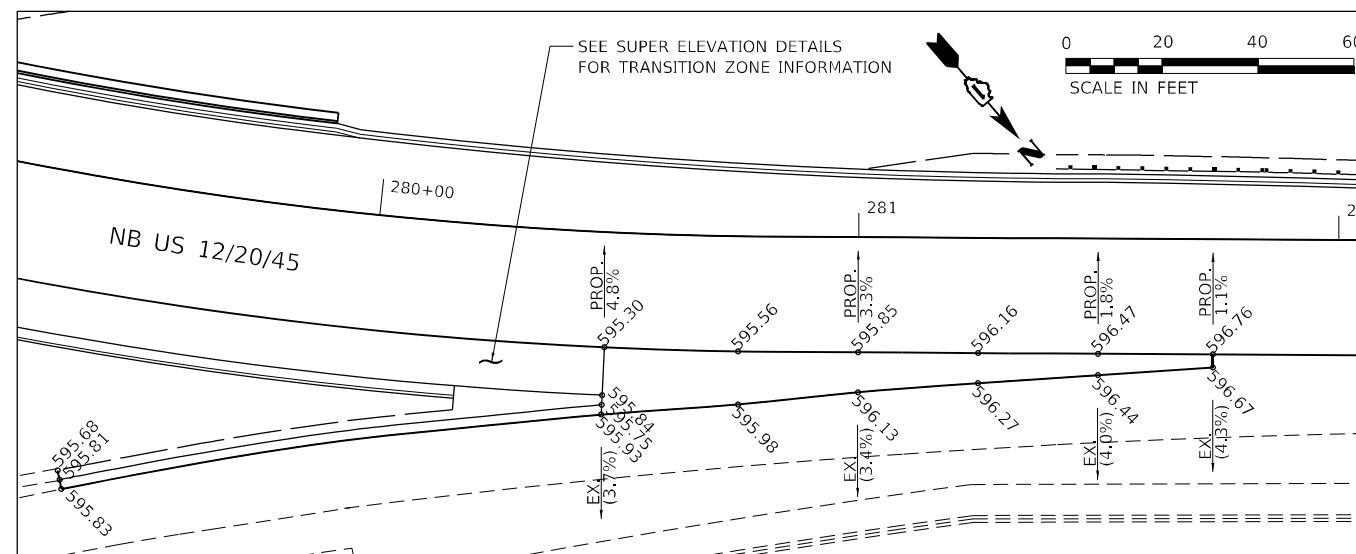


PROPOSED GORE – NB US 12/20/45 STA. 273+12.00

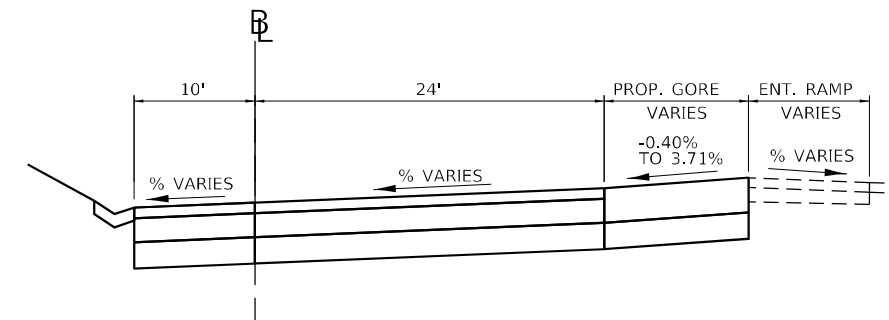
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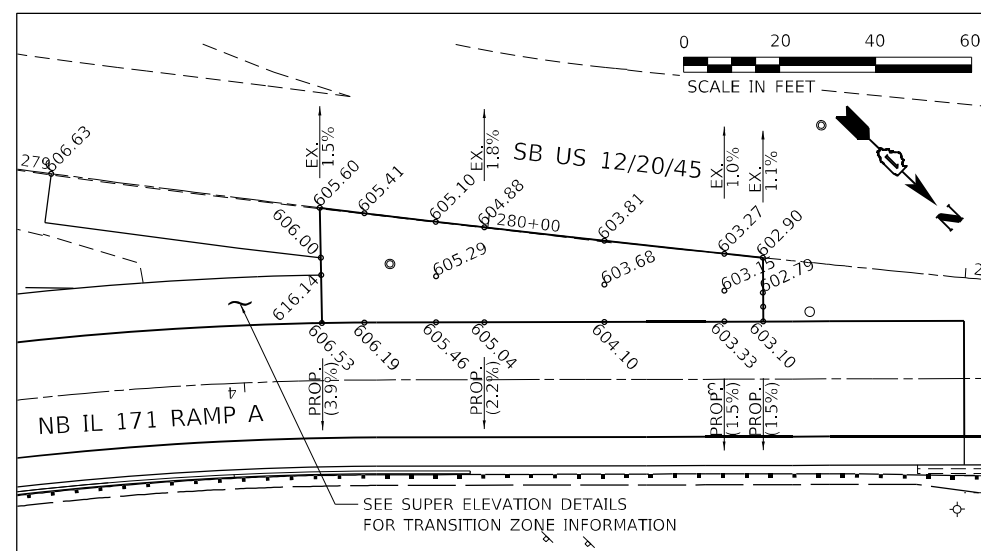
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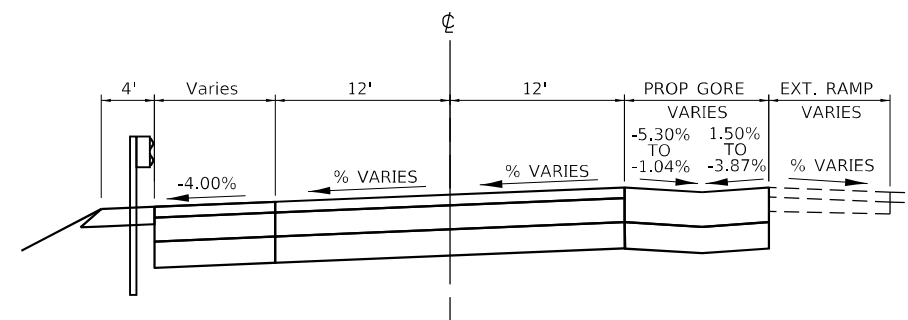
PROPOSED GORE – NB US 12/20/45 STA. 281+74.00



PROPOSED GORE TYPICAL – NB US 12/20/45 STA. 281+74.00



PROPOSED GORE – NB IL 171 RAMP A STA. 2+91.85



PROPOSED GORE TYPICAL – NB IL 171 RAMP A STA. 2+91.85

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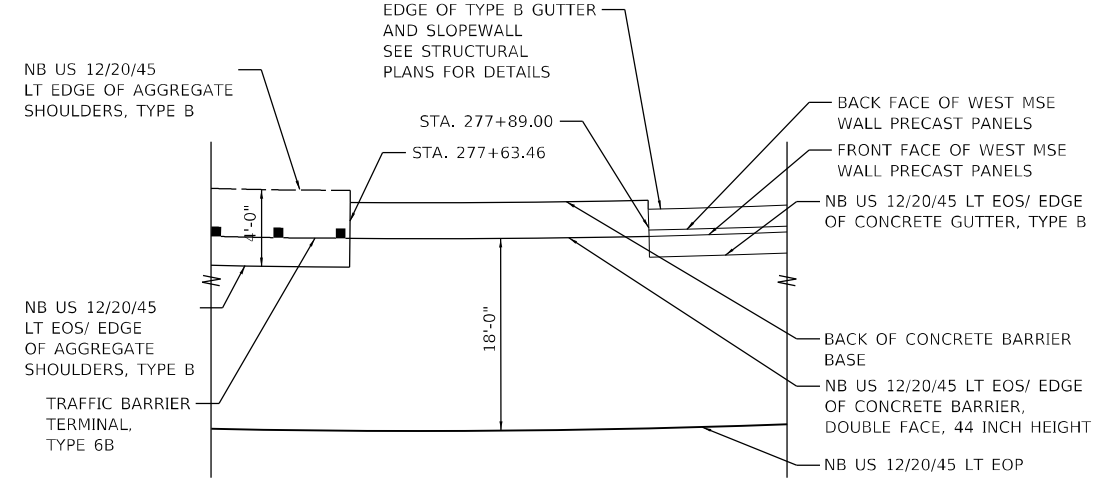
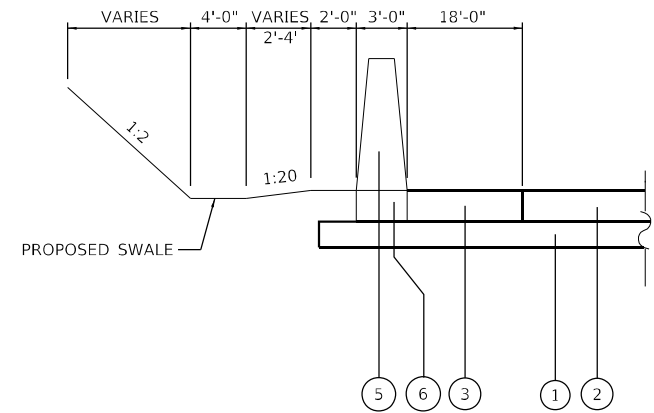
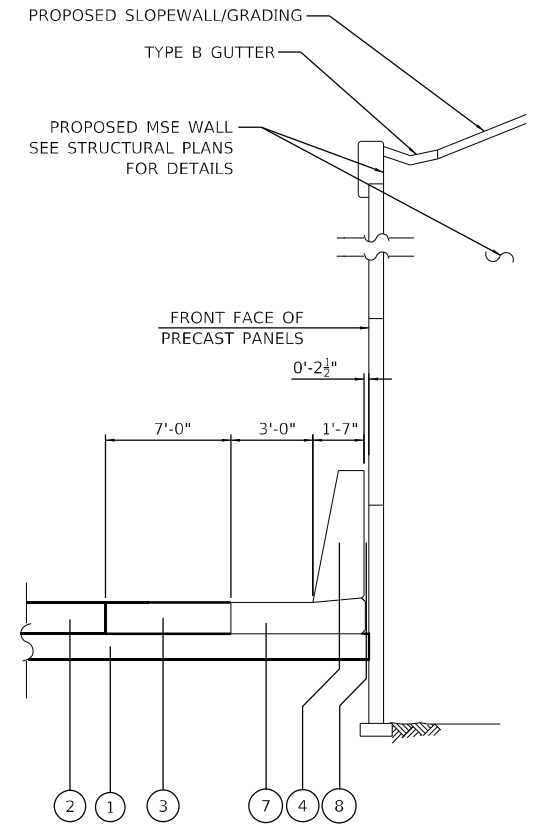
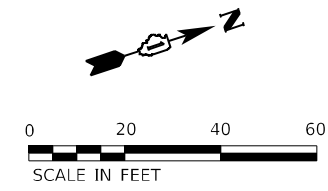
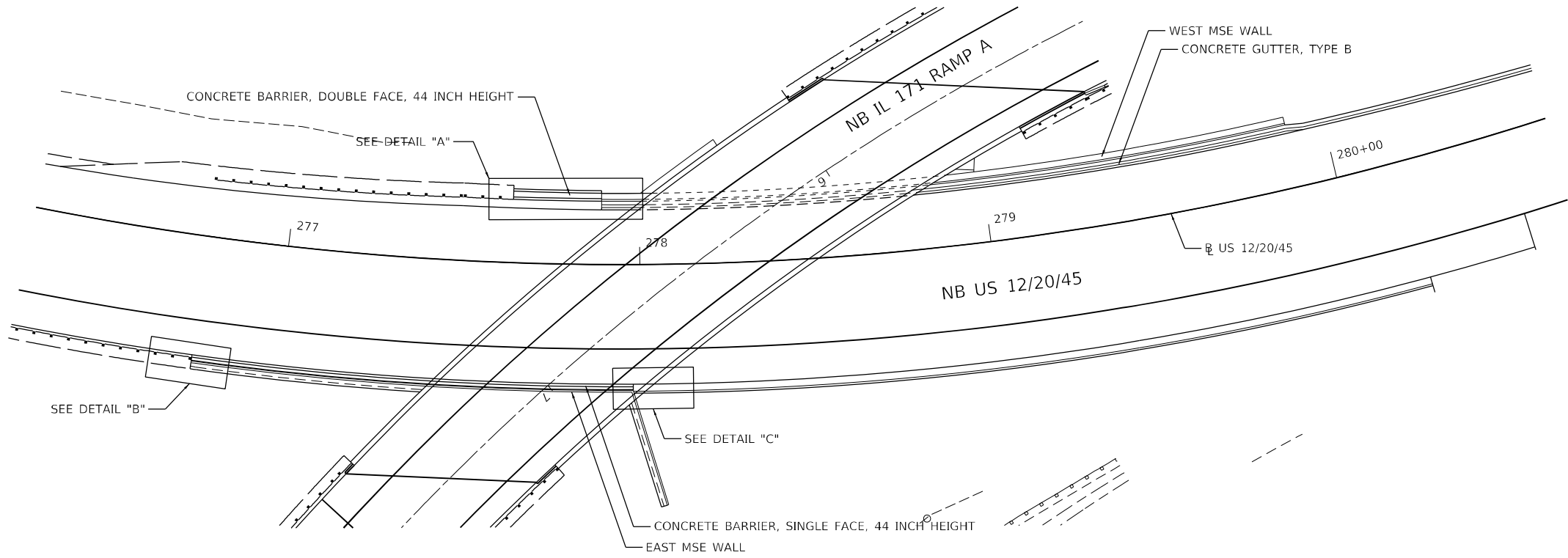
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

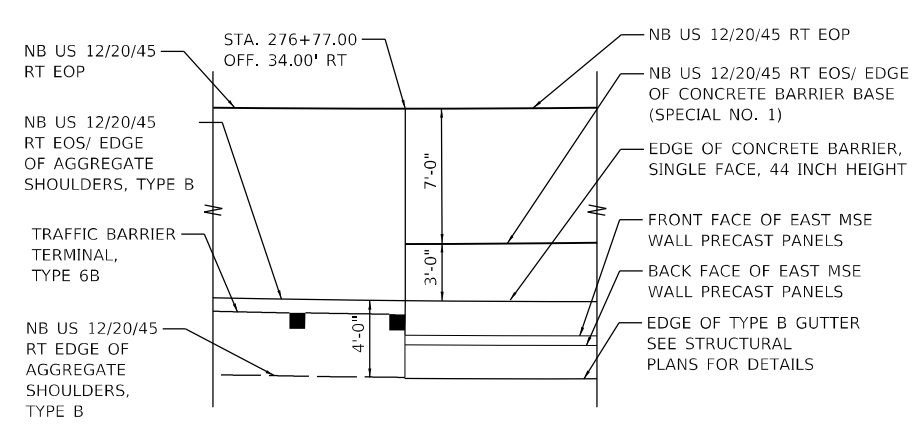
**SN 016-2757 IL 171 OVER US 45
GORE DETAILS**

SCALE: 1"=20' SHEET 1 OF 4 SHEETS STA. TO STA.

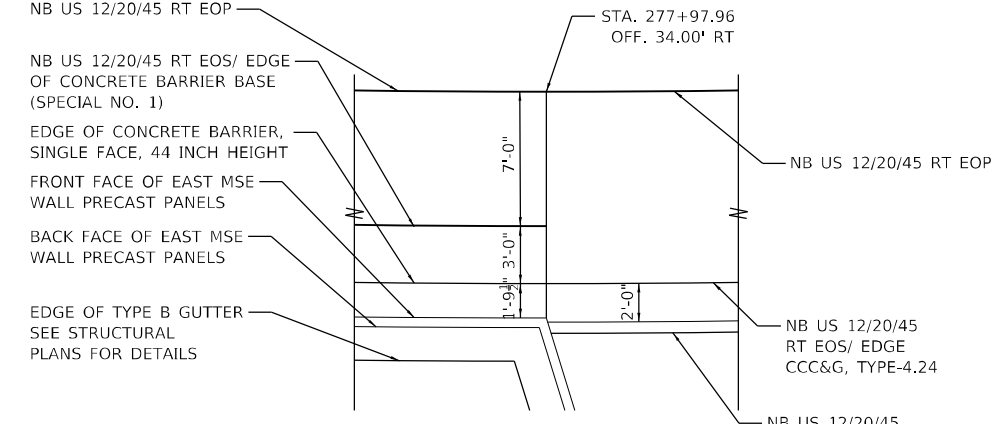
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	28
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



DETAIL "A": PLAN VIEW



DETAIL "B": PLAN VIEW



DETAIL "C": PLAN VIEW

LEGEND

- ① AGGREGATE SUBGRADE IMPROVEMENT, 12'
- ② HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14 3/4"
- ③ HOT-MIX ASPHALT SHOULDERS, 14 3/4"
- ④ CONCRETE BARRIER, SINGLE FACE, 44 INCH HEIGHT
- ⑤ CONCRETE BARRIER, DOUBLE FACE, 44 INCH HEIGHT
- ⑥ CONCRETE BARRIER BASE
- ⑦ CONCRETE BARRIER BASE (SPECIAL NO.1)
- ⑧ PREFORMED JOINT FILLER

NOTE

1. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR & US 12/20/45 UNLESS OTHERWISE NOTED.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
ROADWAY DETAILS**

SCALE: 1"=20' SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	29
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

END NB US 12/20/45
STA. 283+66.22

END SAME DIRECTION ROTATION
STA. 282+92.73

PC
STA. 282+21.58

0% SLOPE
STA. 282+09.22

BEGIN GORE
STA. 281+74.00

PT
STA. 280+82.44

END INSIDE SHOULDER ROTATION
STA. 280+75.93

END GORE
STA. 280+48.07

END FULL SUPER
END OUTSIDE SHOULDER ROTATION
BEGIN INSIDE SHOULDER ROTATION
STA. 280+19.22

0% SLOPE OUTSIDE SHOULDER
STA. 279+30.02

BEGIN OUTSIDE SHOULDER ROTATION
STA. 278+83.82

END OUTSIDE SHOULDER ROTATION
STA. 274+53.00

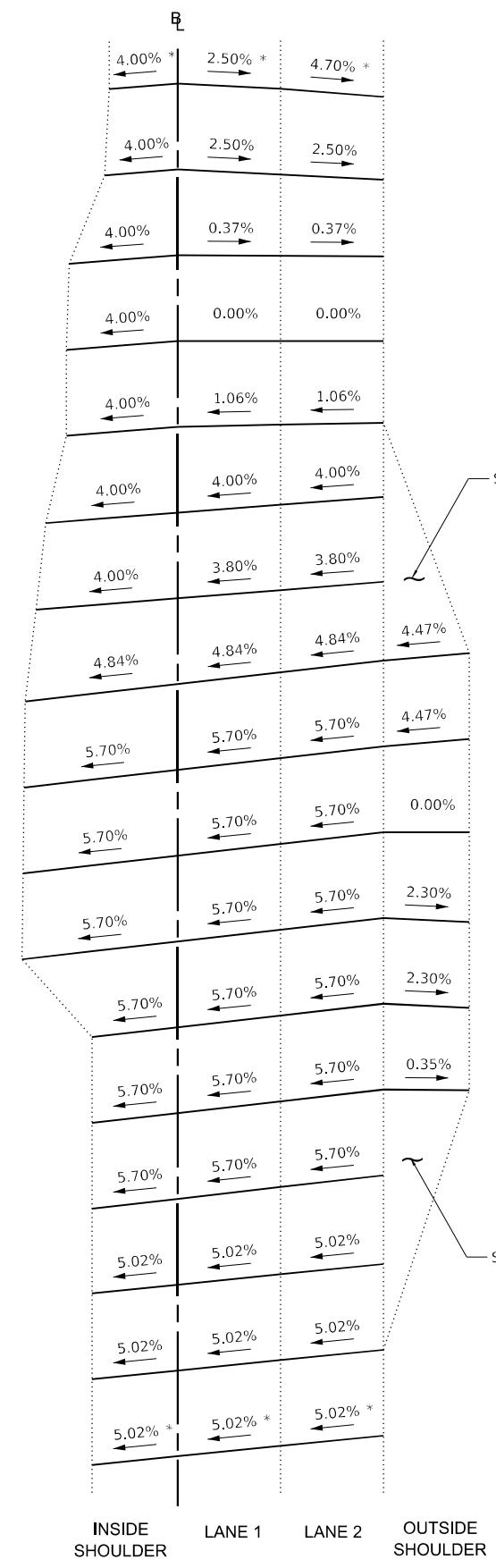
END GORE
BEGIN OUTSIDE SHOULDER ROTATION
STA. 274+14.00

BEGIN FULL SUPER
STA. 274+12.68

BEGIN SAME DIRECTION ROTATION
STA. 273+90.00

BEGIN GORE
STA. 273+12.00

BEGIN NB US 12/20/45
STA. 272+89.70



SEE GORE DETAILS FOR GORE AREA

SEE GORE DETAILS FOR GORE AREA

* MATCH EXISTING SLOPE

PROPOSED NB US 12/20/45 SUPERELEVATION SECTION

NOT TO SCALE

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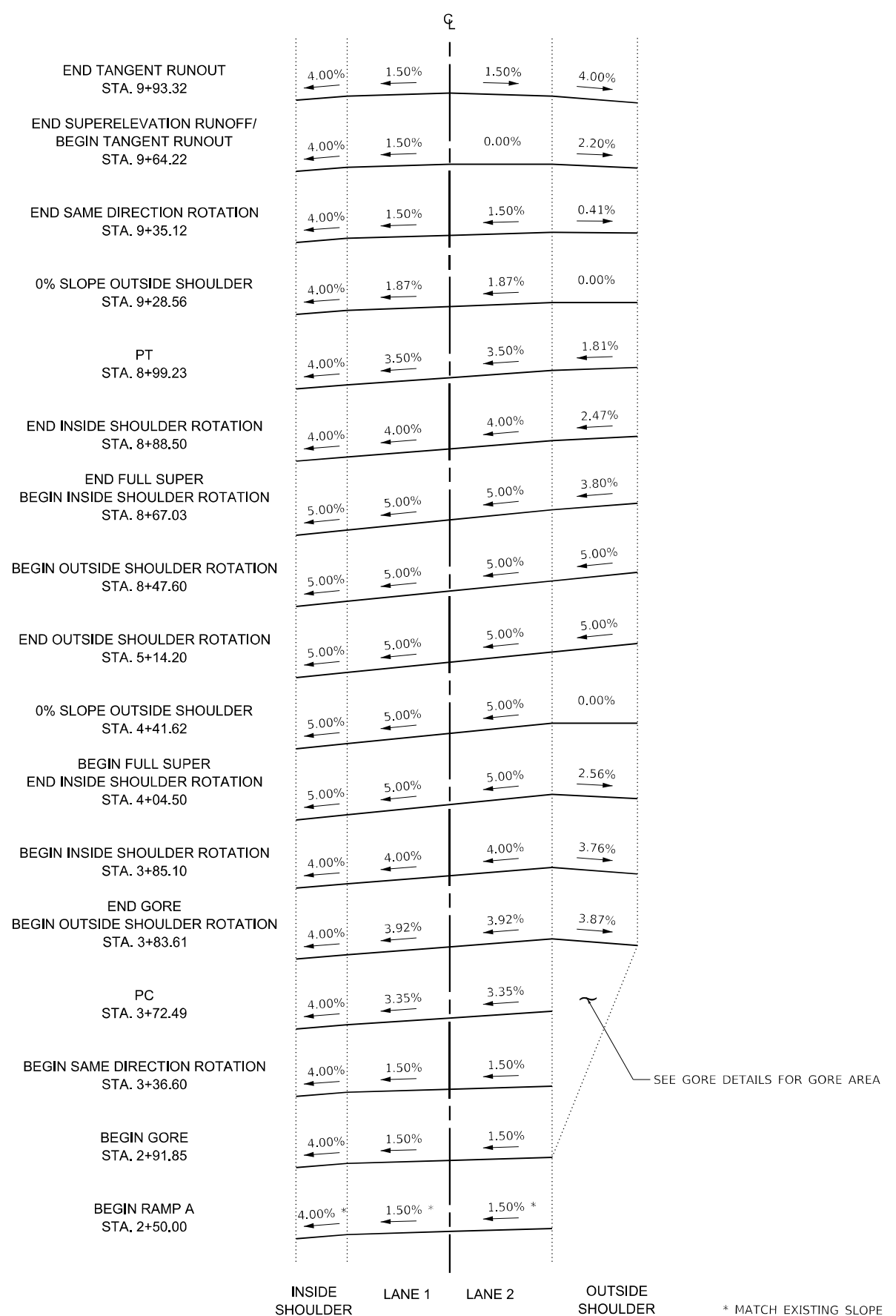
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-2757 IL 171 OVER US 45
ROADWAY DETAILS

SCALE: 1"=20' SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	30
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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PROPOSED RAMP A SUPERELEVATION SECTION
 NOT TO SCALE



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
 ROADWAY DETAILS**

SCALE: 1"=20' SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	31
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

MAINTENANCE OF TRAFFIC GENERAL NOTES

- THE TRAFFIC CONTROL PLAN SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY IMPROVE OR MODIFY THE TRAFFIC CONTROL PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- ALL OF THE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED. ALL TEMPORARY PAVEMENT MARKINGS & TRAFFIC CONTROL DEVICES SHALL BE IN PLACE AT THE BEGINNING OF EACH STAGE AND SHALL BE MAINTAINED FOR THE DURATION OF THAT STAGE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS, STATE STANDARDS AND AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY CHANGES IN STAGING AT LEAST TWO (2) WORKING DAYS IN ADVANCE.
- TEMPORARY SIGNING, AS SHOWN, SHALL CONFORM TO THE APPLICABLE STANDARDS INCLUDED IN THE SPECIAL PROVISIONS AND CONTRACT PLANS OR AS DIRECTED BY THE ENGINEER.
- ALL STATE ROUTE MARKERS SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT ALL STAGES OF CONSTRUCTION.
- EXISTING TRAFFIC CONTROL DEVICES WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGED SIGNS CAUSED BY THIS WORK SHALL BE REPLACED BY THE CONTRACTOR.
- TRAFFIC CONTROL DEPICTED ON THE MAINTENANCE OF TRAFFIC PLANS IS THE MINIMUM REQUIREMENT. OTHER WORK OR SIGNING MAY BE REQUIRED BY THE ENGINEER.
- THE TYPE III BARRICADES ARE TO BE PLACED IN ACCORDANCE WITH STANDARD 701901 UNLESS AUTHORIZED BY THE ENGINEER TO USE AN ALTERNATIVE ARRANGEMENT.
- TYPE I, TYPE II OR DRUM BARRICADES WITH TWO-WAY FLASHING LIGHTS SHALL BE REQUIRED AT ALL OPEN TRENCHES, EXCAVATIONS, OPEN OR EXPOSED SEWER STRUCTURES, TRANSVERSE PAVEMENT JOINTS, MATERIALS OR EQUIPMENT WITHIN THE RIGHT-OF-WAY (NUMBER AND SPACING DEPENDS ON THE CONDITIONS); AND AT LOCATIONS DESIGNATED BY THE ENGINEER OR LOCAL LAW ENFORCEMENT AGENCIES.
- THE CONTRACTOR SHALL PROVIDE, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL AND PROTECTION. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".
- ARROW BOARDS WILL BE REQUIRED WHEN IMPLEMENTING ALL LANE CLOSURES.
- TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY, OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION WITHIN TWO HOURS FROM THE TIME OF NOTIFICATION.
- 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.
- ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE TEMPORARY PAVEMENT MARKING FOR STAGING SHALL BE REMOVED. THIS WORK SHALL BE PAID FOR AS "PAVEMENT MARKING REMOVAL-WATER BLASTING" (78300202).
- CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL TRAFFIC STAGE CHANGES ON EACH APPROACH OF THE EFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGNS SHALL BE REMOVED TWO WEEKS THEREAFTER UNLESS THE SIGNS ARE NEEDED AGAIN FOR A SUBSEQUENT FUTURE EVENT THAT WILL OCCUR WITHIN 2 WEEKS ON THE SAME APPROACH OF THE EFFECTED ROADWAY. THE SIGN LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
- THE "ROAD CONSTRUCTION AHEAD" SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR WHEN NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.
- PAVEMENT MARKING TAPE, TYPE IV (AND/OR TYPE III) SHOWN ON THE PLANS FOR ANY CONSTRUCTION STAGE THAT THE CONTRACTOR PROPOSES TO EXTEND OVER THE WINTER PERIOD SHALL MEAN MODIFIED URETHANE PAVEMENT MARKING AND WILL BE PAID FOR THEIR RESPECTIVE CONTRACT UNIT PRICE.
- ALL EXISTING 7"(1.5"BLACK, 4"WHITE, 1.5"BLACK) PREFORMED PLASTIC TYPE B STANDARD LANE LINE PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKER REFLECTORS LOCATED WITHIN TEMPORARY LANE CLOSURE TAPERS, LANE SHIFT TAPERS OR IN LOCATIONS THAT CONFLICT WITH THE TEMPORARY PAVEMENT MARKING TAPE USED FOR STAGING SHALL BE REMOVED IF THE STAGING WILL REMAIN IN PLACE FOR MORE THAN 14 DAYS. THE EXISTING 7"(1.5"BLACK, 4"WHITE, 1.5"BLACK) PREFORMED PLASTIC TYPE B STANDARD PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKER REFLECTORS THAT WERE REMOVED SHALL BE RESTORED AFTER THE COMPLETION OF THE STAGING.

CONSTRUCTION STAGING

PRESTAGE

- INSTALL DRAINAGE PIPES S-8,, P-8, P-9, P-14, P-15, P-16, P-17, P-18, P-19, P-20, P-21 AND DRAINAGE STRUCTURES S-9, S-14, S-15, S-16, S-17, S-18, S-19, S-20, AND S-21 USING IDOT STANDARD 701422. TEMPORARY PAVEMENT PATCHES FOR STAGED CONSTRUCTION OF STORM SEWER SHALL BE PAID FOR AS "TEMPORARY PAVEMENT" AND "SUBBASE GRANULAR MATERIAL, TYPE B 4"". SEE DRAINAGE PLANS FOR ADDITIONAL DETAILS.

STAGE 1

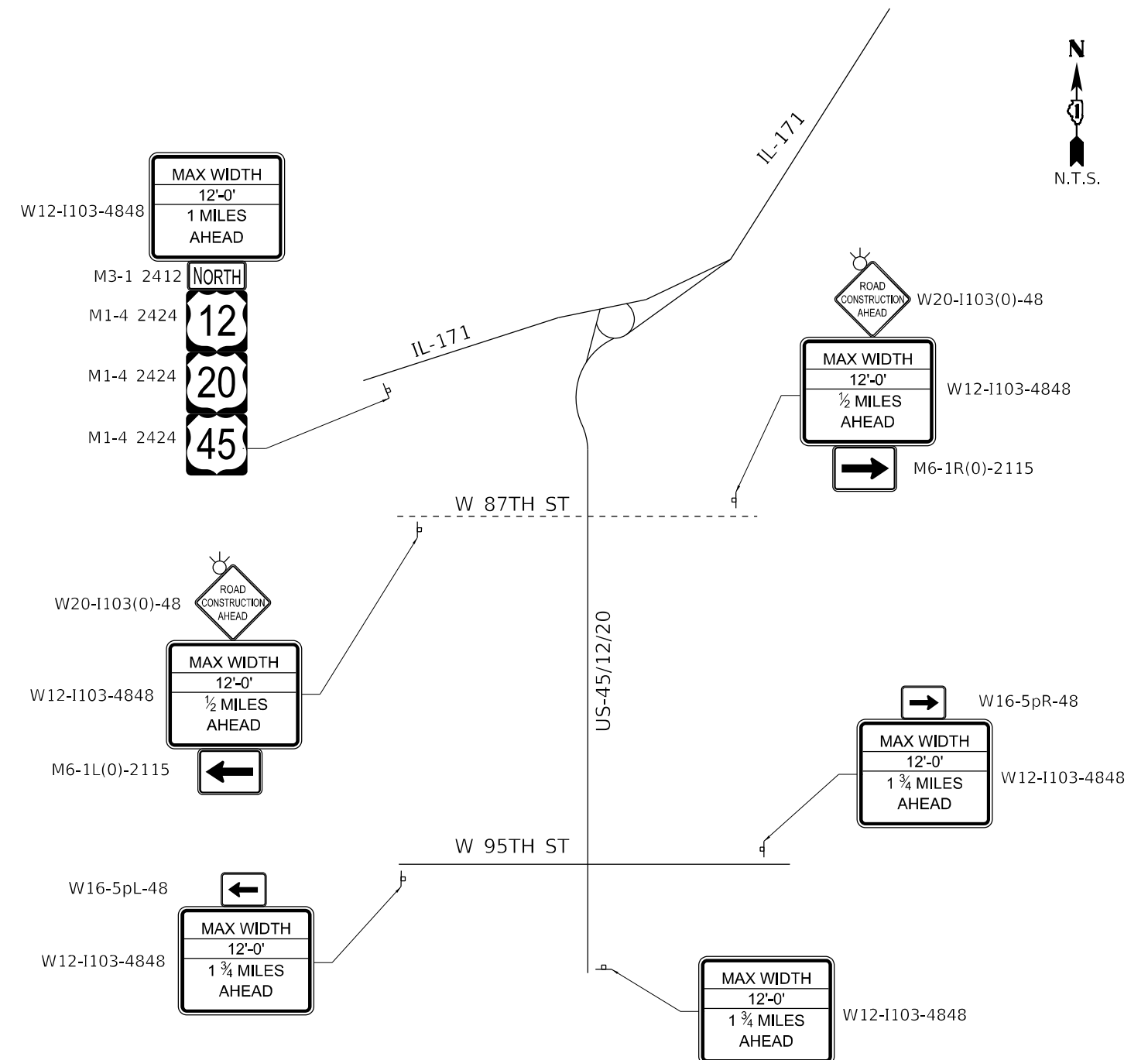
- INSTALL LANE CLOSURE ON US-45 AND RAMP CLOSURE ON IL-171 ACCORDING TO PLANS.
- COVER AND REMOVE PERMANENT SIGNS AS NEEDED FOR STAGE 1 CONSTRUCTION.
- REMOVE ALL CONFLICTING PAVEMENT MARKINGS AND INSTALL TEMPORARY PAVEMENT MARKINGS.
- REMOVE AND CONSTRUCT SOUTH ABUTMENT.

STAGE 2

- INSTALL LANE CLOSURE ON US-45 AND RAMP CLOSURE ON IL-171 ACCORDING TO PLANS.
- COVER AND REMOVE PERMANENT SIGNS AS NEEDED FOR STAGE 2 CONSTRUCTION.
- REMOVE ALL CONFLICTING PAVEMENT MARKINGS AND INSTALL TEMPORARY PAVEMENT MARKINGS.
- REMOVE AND CONSTRUCT NORTH ABUTMENT.

STAGE 1 MAX WIDTH SIGN DETAIL A:

NOTE: CONTRACTOR SHALL PLACE SIGNS 500' AHEAD OF EACH INTERSECTION UNLESS OTHERWISE NOTED.



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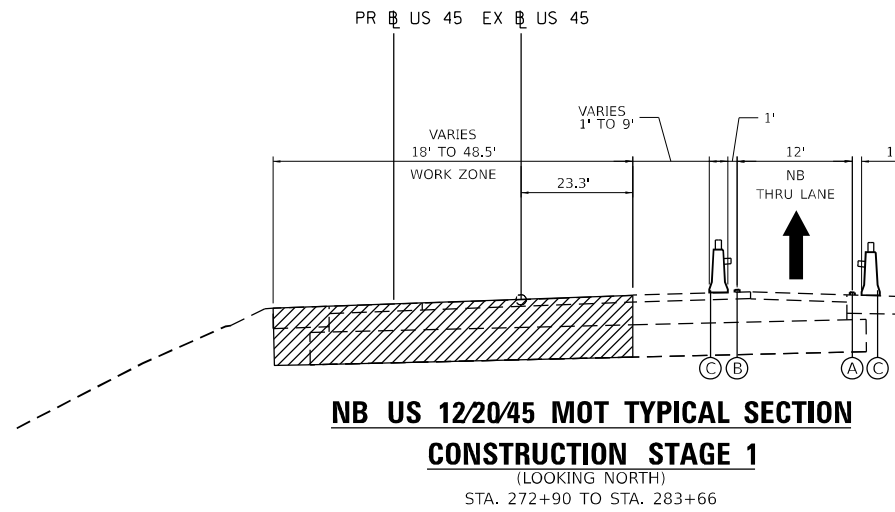
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-2757 IL 171 OVER US 45
MOT GENERAL NOTES

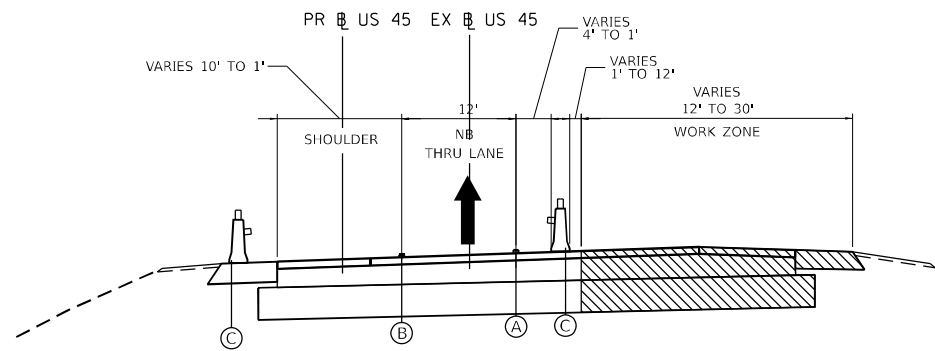
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CONTRACT NO. 62K60			ILLINOIS FED. AID PROJECT	

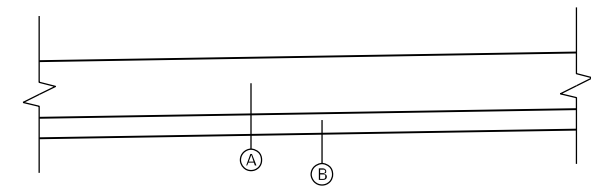
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NB US 12/20/45 MOT TYPICAL SECTION
CONSTRUCTION STAGE 1
 (LOOKING NORTH)
 STA. 272+90 TO STA. 283+66



NB US 12/20/45 MOT TYPICAL SECTION
CONSTRUCTION STAGE 2
 (LOOKING NORTH)
 STA. 272+90 TO STA. 283+66



PRESTAGE TEMPORARY PAVEMENT SECTION

- N.T.S.
- (A) FULL DEPTH TEMPORARY HMA PAVEMENT, 10"
(SEE HMA TABLE FOR DETAILS)
 - (B) SUBBASE GRANULAR MATERIAL TYPE B (CA-6), 4"

OR

 - (A) TEMPORARY PCC PAVEMENT, 8"
 - (B) SUBBASE GRANULAR MATERIAL TYPE B (CA-6), 4"

NOTE:

THE TEMPORARY PAVEMENT SHALL BE CONSTRUCTED WITH A CROSS SLOPE THAT MATCHES THE CROSS SLOPE OF THE EXISTING PAVEMENT. IN ADDITION, THE CONTRACTOR SHALL COVER OPEN TRENCHES WITH STEEL PLATES WHEN WORKERS ARE NOT PRESENT IF TEMPORARY PAVEMENT IS NOT YET INSTALLED.



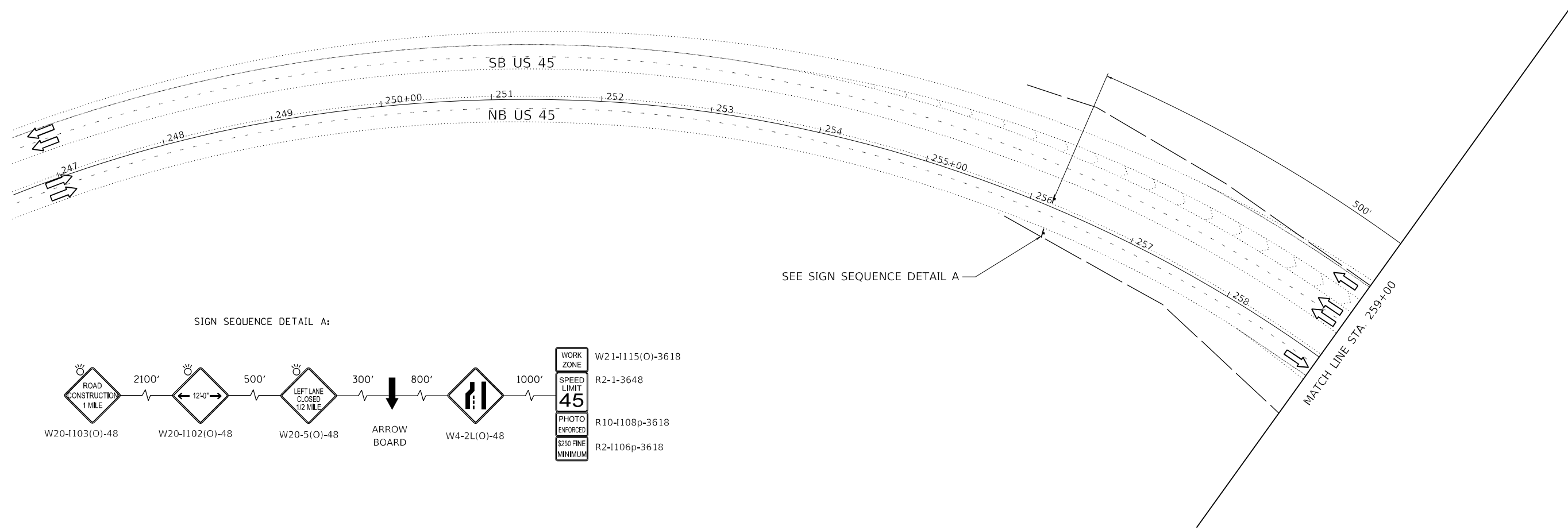
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

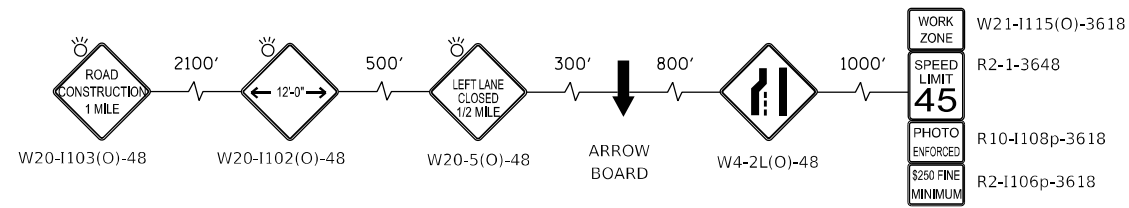
SN 016-2757 IL 171 OVER US 45
MOT TYPICAL SECTIONS

SCALE: SHEET 2 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	33
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



SIGN SEQUENCE DETAIL A:



MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- MAINTENANCE OF TRAFFIC SIGN
- FLASHING ARROW BOARD
- DRUMS PLACED AT 25' C-C IN TAPERS AND 100' C-C IN TANGENTS
- TEMPORARY CONCRETE BARRIER
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT PLACED AT 50' C-C



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 550 W. JACKSON BLVD. SUITE 200 CHICAGO IL 60601 P312-455-8010 F312-455-8015



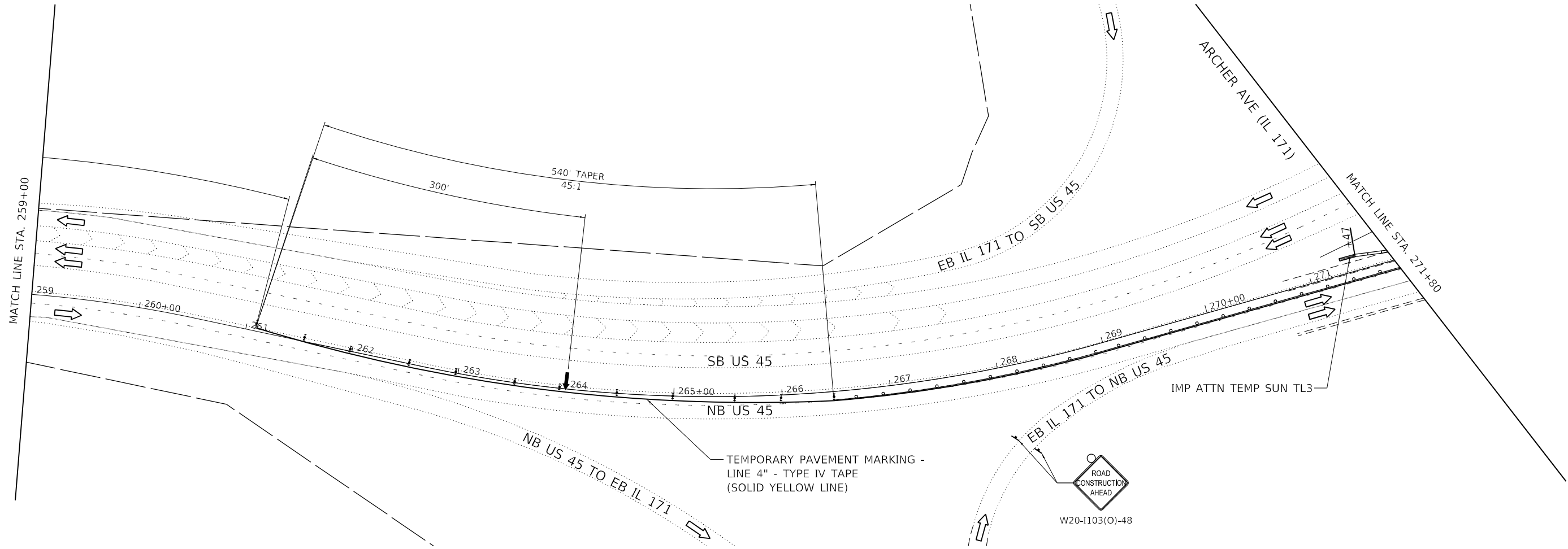
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**









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MOT STAGE 1**

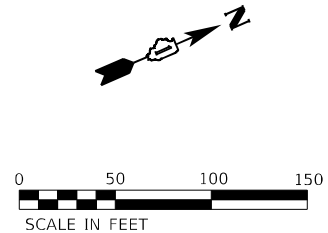
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	34
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



MAINTENANCE OF TRAFFIC LEGEND

-  WORK ZONE
-  DIRECTION OF TRAFFIC
-  TYPE III BARRICADE
-  MAINTENANCE OF TRAFFIC SIGN
-  FLASHING ARROW BOARD
-  DRUMS PLACED AT 25' C-C IN TAPERS AND 100' C-C IN TANGENTS
-  TEMPORARY CONCRETE BARRIER
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT PLACED AT 50' C-C



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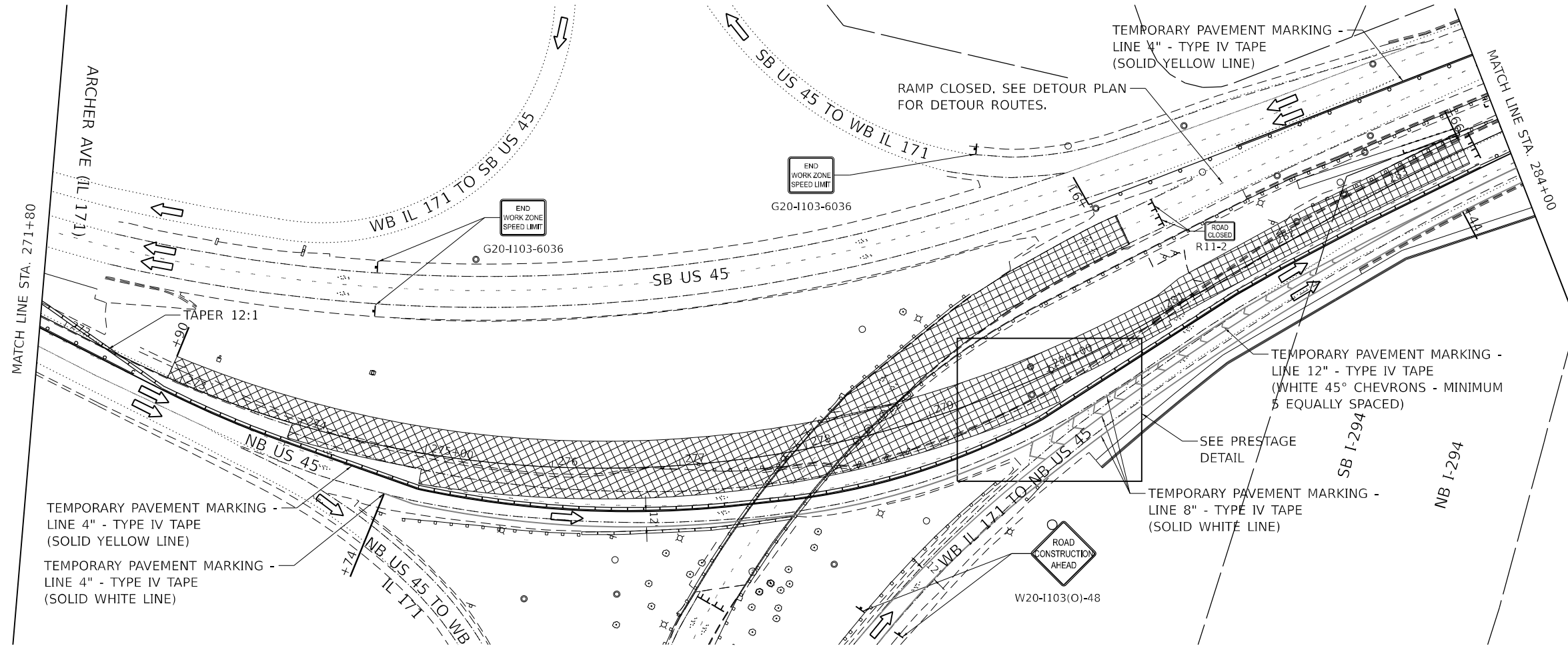
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-2757 IL 171 OVER US 45 MOT STAGE 1			
SCALE:	SHEET 4	OF 11 SHEETS	STA. TO STA.

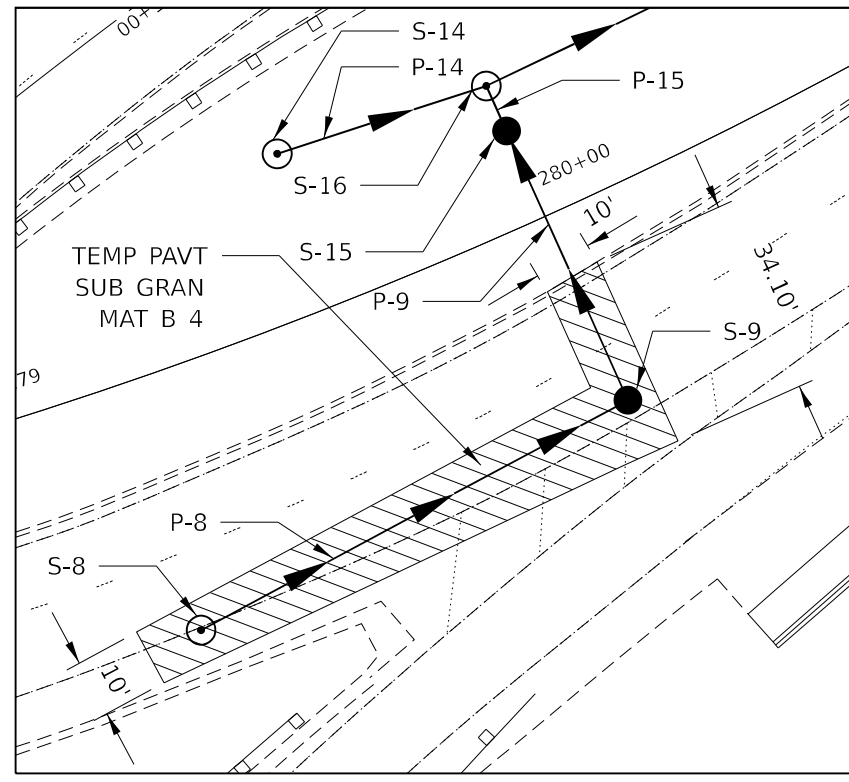
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ILLINOIS FED. AID PROJECT				

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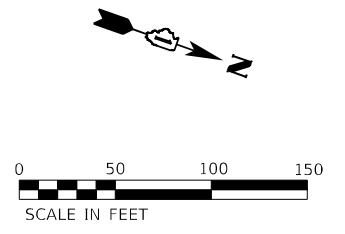


MAINTENANCE OF TRAFFIC LEGEND

	WORK ZONE
	DIRECTION OF TRAFFIC
	TYPE III BARRICADE
	MAINTENANCE OF TRAFFIC SIGN
	FLASHING ARROW BOARD
	DRUMS PLACED AT 25' C-C IN TAPERS AND 100' C-C IN TANGENTS
	TEMPORARY CONCRETE BARRIER
	DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT PLACED AT 50' C-C



PRESTAGE DETAIL



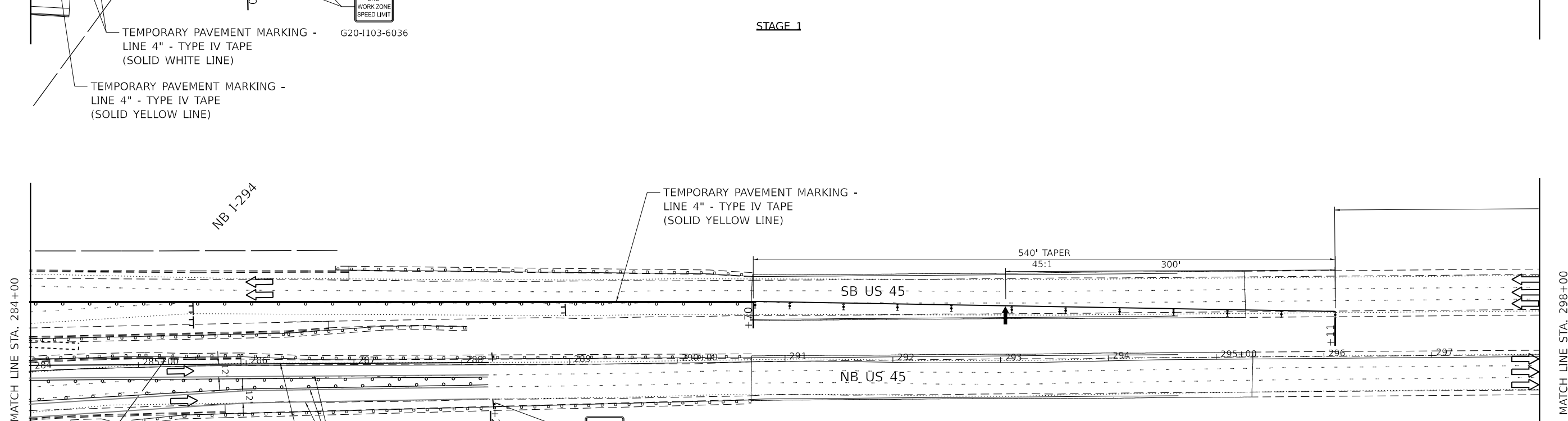
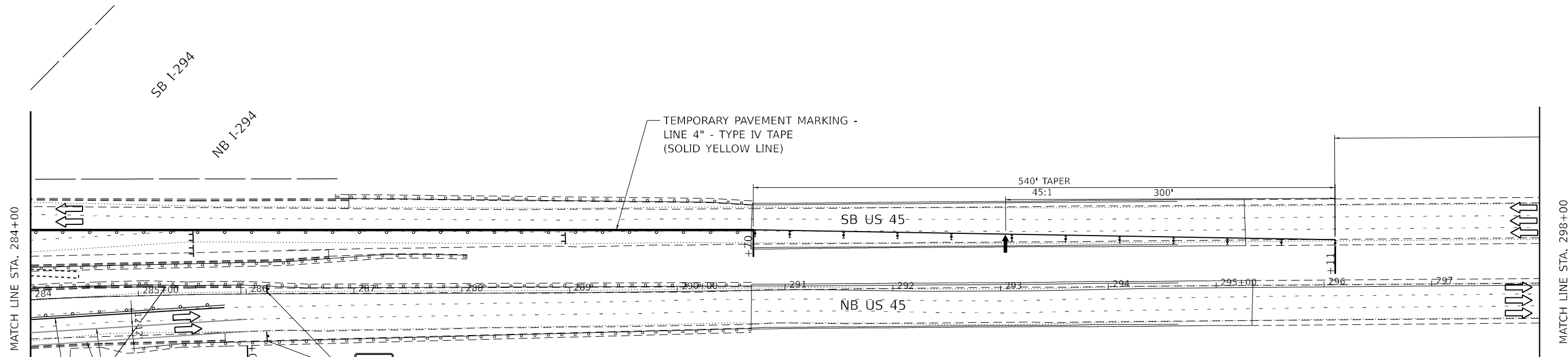
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-2757 IL 171 OVER US 45			
MOT STAGE 1			
SCALE:	SHEET 5	OF 11 SHEETS	STA. TO STA.

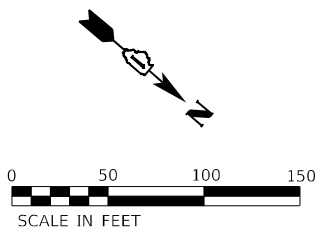
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CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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 550 W. JACKSON BLVD. SUITE 600, CHICAGO IL 60661 P312-455-4010 F312-455-4015



MAINTENANCE OF TRAFFIC LEGEND

	WORK ZONE
	DIRECTION OF TRAFFIC
	TYPE III BARRICADE
	MAINTENANCE OF TRAFFIC SIGN
	FLASHING ARROW BOARD
	DRUMS PLACED AT 25' C-C IN TAPERS AND 100' C-C IN TANGENTS
	TEMPORARY CONCRETE BARRIER
	DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT PLACED AT 50' C-C



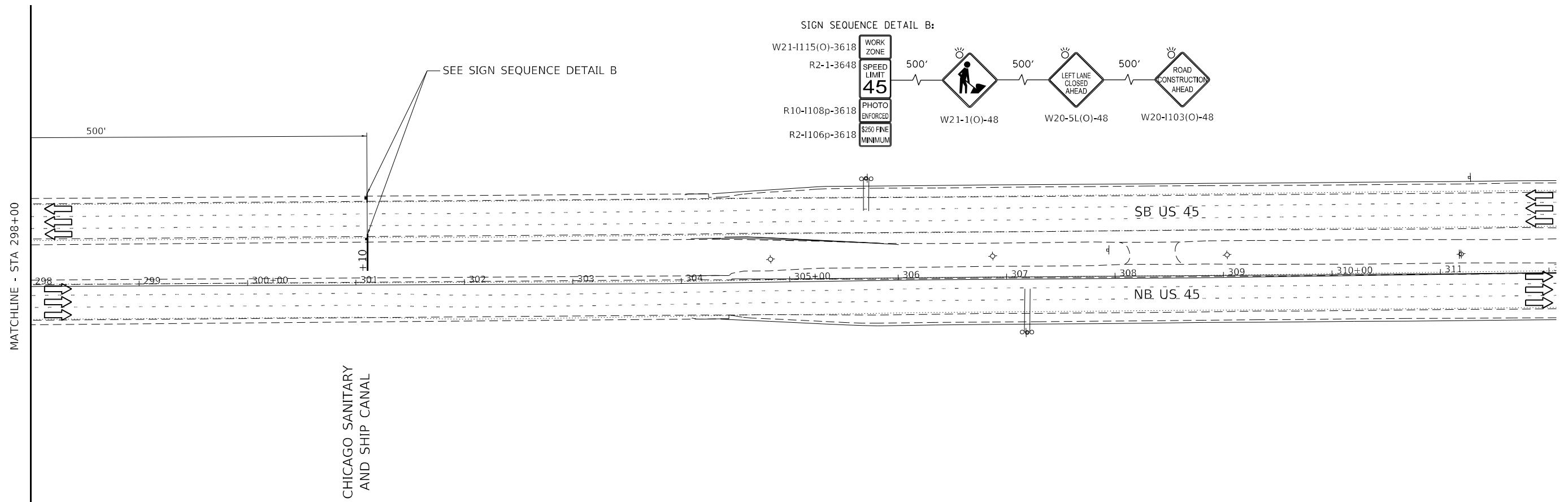
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	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-2757 IL 171 OVER US 45 MOT STAGE 1 AND STAGE 2			
SCALE:	SHEET 6	OF 11 SHEETS	STA. TO STA.

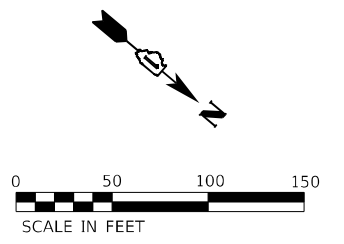
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330	2019-187-B	COOK	153	37
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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 550 W. JACKSON BLVD. SUITE 200, CHICAGO, IL 60601 P312-455-4010 F312-455-4015



MAINTENANCE OF TRAFFIC LEGEND

	WORK ZONE
	DIRECTION OF TRAFFIC
	TYPE III BARRICADE
	MAINTENANCE OF TRAFFIC SIGN
	FLASHING ARROW BOARD
	DRUMS PLACED AT 25' C-C IN TAPERS AND 100' C-C IN TANGENTS
	TEMPORARY CONCRETE BARRIER
	DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT PLACED AT 50' C-C



USER NAME = Michael.Czerpak	DESIGNED - SJP	REVISED -
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PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

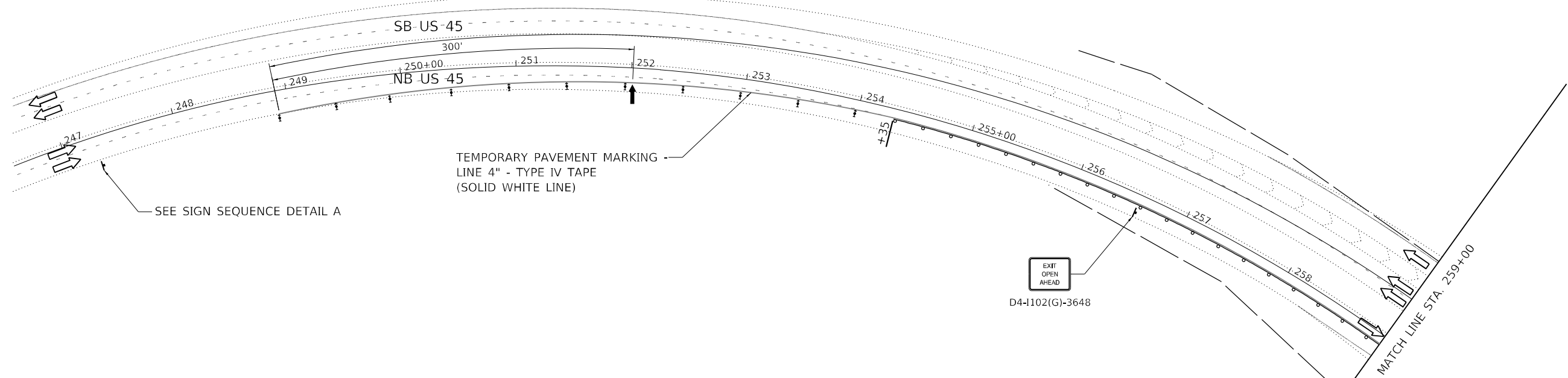
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
MOT STAGE 1 AND STAGE 2**

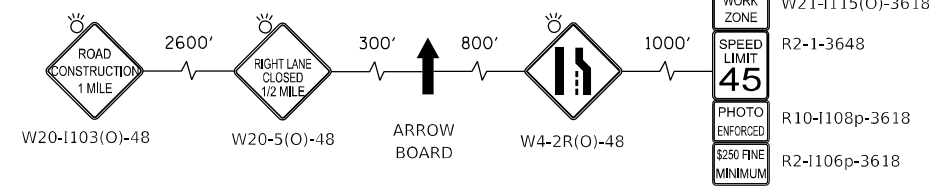
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	38
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

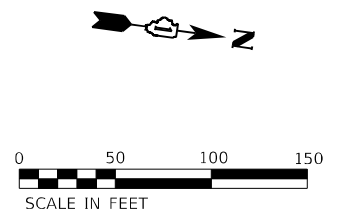
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 550 W. JACKSON BLVD. SUITE 500 CHICAGO IL 60601 P312-455-4010 F312-455-4015



SIGN SEQUENCE DETAIL A:



MAINTENANCE OF TRAFFIC LEGEND	
	PAVEMENT INSTALLED IN PREVIOUS STAGE
	WORK ZONE
	DIRECTION OF TRAFFIC
	TYPE III BARRICADE
	MAINTENANCE OF TRAFFIC SIGN
	FLASHING ARROW BOARD
	DRUMS PLACED AT 25' C-C IN TAPERS AND 100' C-C IN TANGENTS
	TEMPORARY CONCRETE BARRIER
	DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT PLACED AT 50' C-C

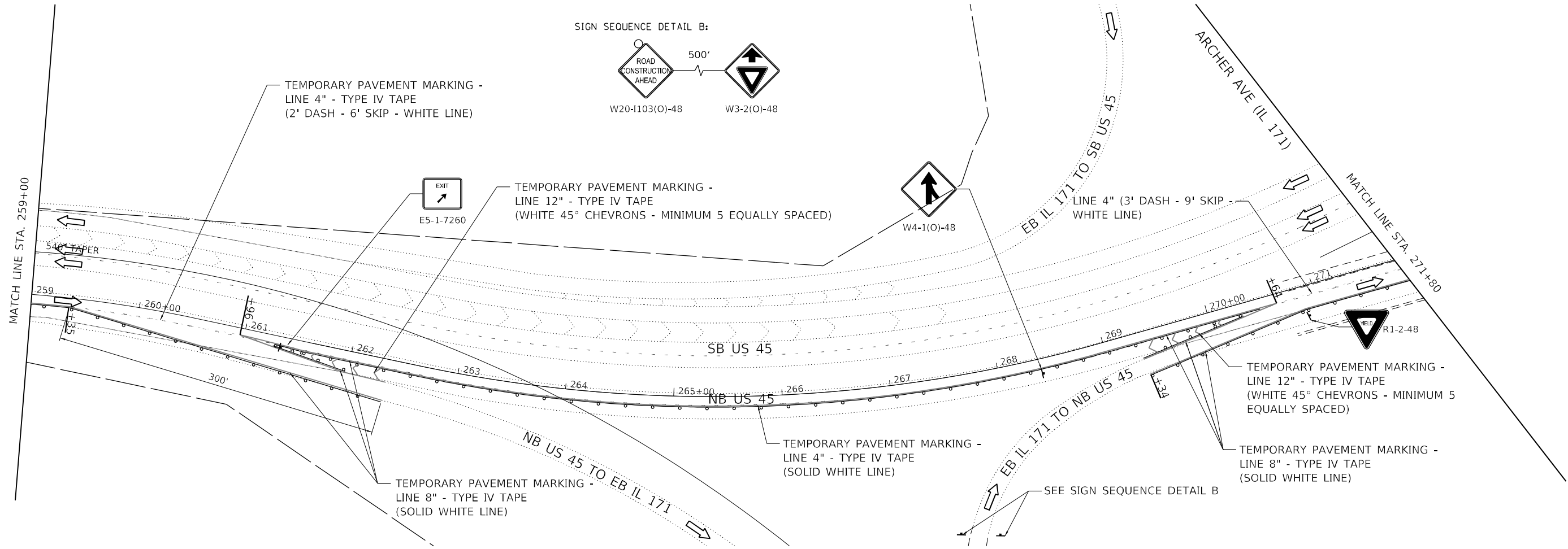


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






STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

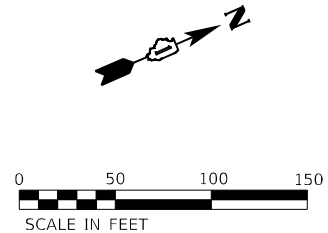
SN 016-2757 IL 171 OVER US 45 MOT STAGE 2			
SCALE:	SHEET 8	OF 11 SHEETS	STA. TO STA.

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 39
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



MAINTENANCE OF TRAFFIC LEGEND

-  PAVEMENT INSTALLED IN PREVIOUS STAGE
-  WORK ZONE
-  DIRECTION OF TRAFFIC
-  TYPE III BARRICADE
-  MAINTENANCE OF TRAFFIC SIGN
-  FLASHING ARROW BOARD
-  DRUMS PLACED AT 25' C-C IN TAPERS AND 100' C-C IN TANGENTS
-  TEMPORARY CONCRETE BARRIER
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT PLACED AT 50' C-C



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 550 W. JACKSON BLVD. SUITE 200, CHICAGO IL 60601 P312-455-4010 F312-455-4015

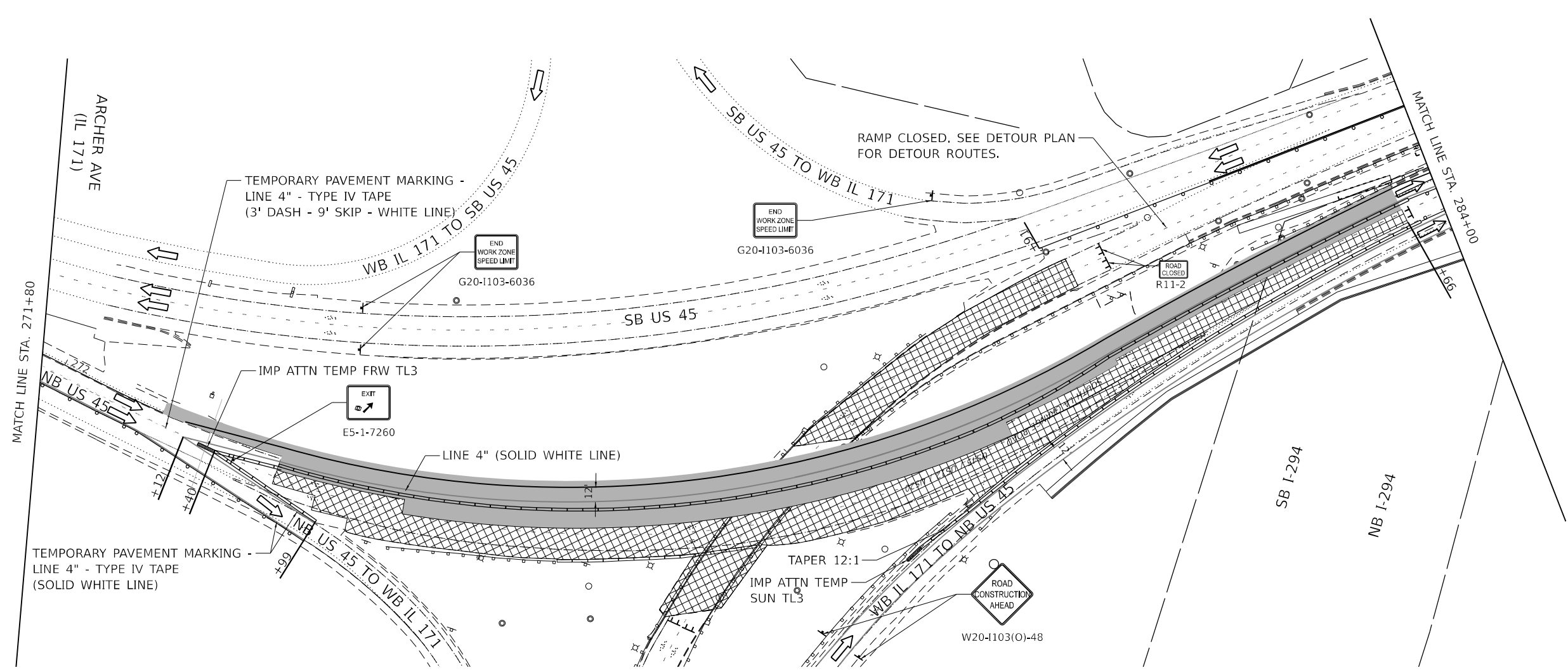
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PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

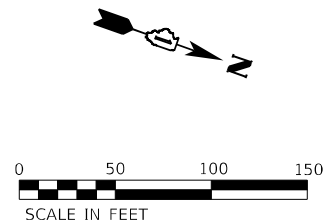
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SCALE:	SHEET 9	OF 11 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	40
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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 550 W. JACKSON BLVD. SUITE 200, CHICAGO, IL 60601 P312-455-4010 F312-455-4015



MAINTENANCE OF TRAFFIC LEGEND	
	PAVEMENT INSTALLED IN PREVIOUS STAGE
	WORK ZONE
	DIRECTION OF TRAFFIC
	TYPE III BARRICADE
	MAINTENANCE OF TRAFFIC SIGN
	FLASHING ARROW BOARD
	DRUMS PLACED AT 25' C-C IN TAPERS AND 100' C-C IN TANGENTS
	TEMPORARY CONCRETE BARRIER
	DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT PLACED AT 50' C-C

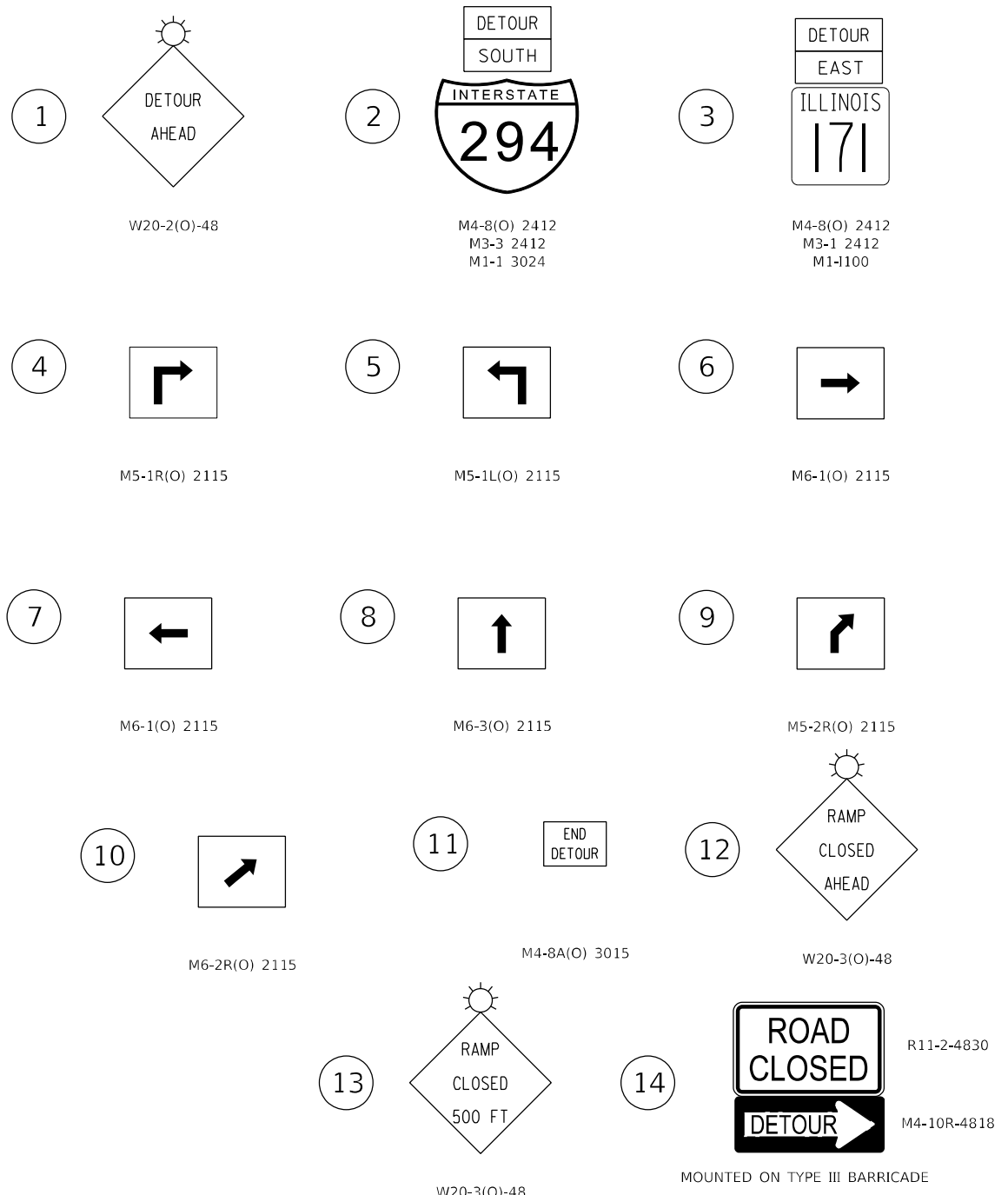
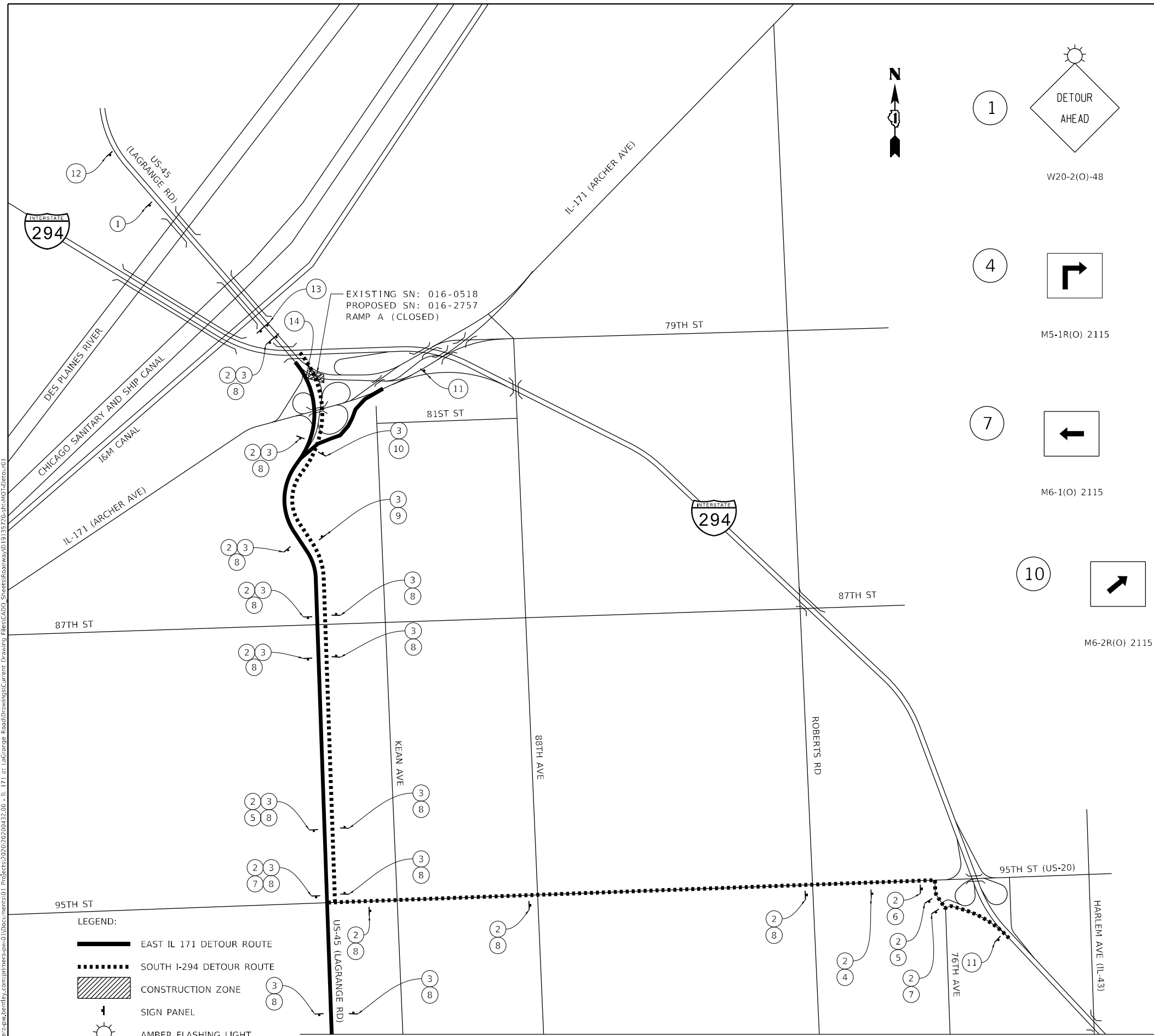


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PLOT DATE = 11/2/2023	CHECKED - MPV	REVISED -
	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-2757 IL 171 OVER US 45 MOT STAGE 2			
SCALE:	SHEET 10	OF 11 SHEETS	STA. TO STA.

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 41
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



- NOTES:
1. PLACEMENT AND SPACING OF SIGNS AND BARRICADES SHALL BE IN ACCORDANCE WITH TC-21 (DETOUR SIGNING FOR CLOSING STATE HIGHWAYS).
 2. THE COST OF SUPPLYING, ERECTING AND MAINTAINING BARRICADES, WARNING LIGHTS AND SIGNS SHALL BE INCLUDED IN THE CONTRACT COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
 3. THE CONTRACTOR SHALL DEVELOP AND MAINTAIN APPROPRIATE SIGNAL TIMINGS FOR THE FOLLOWING INTERSECTIONS, OR AS DIRECTED BY THE ENGINEER AND SHALL BE INCLUDED IN TEMPORARY TRAFFIC SIGNAL TIMING (Z0073510):

A) US-45/87TH ST	G) 95TH ST/KEAN AVE
B) US-45/107TH ST	H) 95TH ST/88TH AVE
C) US-45/111TH ST	I) 95TH ST/ROBERTS RD
D) N LAGRANGE RD/IL-83	J) 95TH ST/78TH AVE
E) S LAGRANGE RD/IL-83	K) 95TH ST/76TH AVE
F) US-45/95TH ST	L) ROBERTSRD/IL-171
 4. INSTALL ALL CHANGEABLE MESSAGE SIGNS LEADING INTO DETOUR AREA, INFORMING THE PUBLIC OF THE DETOUR, AT LEAST TWO WEEKS PRIOR TO THE ROADWAY CLOSURE.

MATCHLINE SHEET 1 - SEE SHEET 2



USER NAME = Michael.Czerpak	DESIGNED - SJP	REVISED -
	DRAWN - SJP	REVISED -
PLOT SCALE = 2000,0000 ' / in.	CHECKED - MPV	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-2757 IL 171 OVER US 45
DETOUR EXHIBIT

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	42
CONTRACT NO. 62K60				

ILLINOIS FED. AID PROJECT

COOK

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 550 W. JACKSON BLVD. SUITE 500, CHICAGO, IL 60601 P312-455-4010 F312-455-4015



USER NAME = Michael.Czerpak	DESIGNED - SJP	REVISED -
DRAWN - SJP	REVISOR -	
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PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SN 016-2757 IL 171 OVER US 45 DETOUR EXHIBIT			
SCALE: N.T.S.	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 43
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

COOK

MATCHLINE SHEET 2 - SEE SHEET 1



- LEGEND:**
- EAST IL 171 DETOUR ROUTE
 - SOUTH I-294 DETOUR ROUTE
 - CONSTRUCTION ZONE
 - SIGN PANEL
 - AMBER FLASHING LIGHT

1	 W20-2(O)-48	2	 M4-8(O) 2412 M3-3 2412 M1-1 3024	3	 M4-8(O) 2412 M3-1 2412 M1-1100
4	 M5-1R(O) 2115	5	 M5-1L(O) 2115	6	 M6-1(O) 2115
7	 M6-1(O) 2115	8	 M6-3(O) 2115	9	 M5-2R(O) 2115
10	 M6-2R(O) 2115	11	 M4-8A(O) 3015	12	 W20-3(O)-48
13	 W20-3(O)-48	14	 R11-2-4830 M4-10R-4818 MOUNTED ON TYPE III BARRICADE		

- NOTES:**
- PLACEMENT AND SPACING OF SIGNS AND BARRICADES SHALL BE IN ACCORDANCE WITH TC-21 (DETOUR SIGNING FOR CLOSING STATE HIGHWAYS).
 - THE COST OF SUPPLYING, ERECTING AND MAINTAINING BARRICADES, WARNING LIGHTS AND SIGNS SHALL BE INCLUDED IN THE CONTRACT COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
 - THE CONTRACTOR SHALL DEVELOP AND MAINTAIN APPROPRIATE SIGNAL TIMINGS FOR THE FOLLOWING INTERSECTIONS, OR AS DIRECTED BY THE ENGINEER AND SHALL BE INCLUDED IN TEMPORARY TRAFFIC SIGNAL TIMING (Z0073510):

A) US-45/87TH ST	G) 95TH ST/KEAN AVE
B) US-45/107TH ST	H) 95TH ST/88TH AVE
C) US-45/111TH ST	I) 95TH ST/ROBERTS RD
D) N LAGRANGE RD/IL-83	J) 95TH ST/78TH AVE
E) S LAGRANGE RD/IL-83	K) 95TH ST/76TH AVE
F) US-45/95TH ST	L) ROBERTSRD/IL-171
 - INSTALL ALL CHANGEABLE MESSAGE SIGNS LEADING INTO DETOUR AREA, INFORMING THE PUBLIC OF THE DETOUR, AT LEAST TWO WEEKS PRIOR TO THE ROADWAY CLOSURE.

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. THE WORK DESCRIBED ON THESE DRAWINGS IS AN INTEGRAL PART OF THE STORM WATER POLLUTION PREVENTION PLAN USED TO OBTAIN A NPDES PERMIT FROM IEPA FOR THE CONSTRUCTION OF THIS PROJECT.
2. THE PURPOSE OF THE EROSION AND SEDIMENT CONTROL MEASURES INCLUDED FOR THIS PROJECT IS TO LIMIT THE SEDIMENT POLLUTION IMPACT OF ANY STORM WATER DISCHARGES THAT ORIGINATE ON THIS SITE OR OFF-SITE FLOWS THAT FLOW OVER THE DISTURBED AREAS, ON DOWNSTREAM AREAS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
4. TO THE MAXIMUM EXTENT POSSIBLE, ALL FLOWS ORIGINATING OFF THE CONSTRUCTION SITE WILL BE DIVERTED AROUND DISTURBED AREAS OR WILL BE CONVEYED THROUGH THE SITE IN A MANNER THAT UNTREATED ON-SITE RUNOFF DOES NOT MIX WITH THE OFF-SITE RUNOFF.
5. ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY.
6. ALL PERMANENT SEDIMENT BASINS, PERMANENT STORM WATER CONTROL MEASURES, AND RUNOFF CONTROL MEASURES REQUIRED TO KEEP OFF-SITE RUNOFF FROM FLOWING OVER THE CONSTRUCTION AREA WILL BE INSTALLED BEFORE CLEARING AND STRIPPING OF THE SITE PROCEEDS. PRIOR TO PROCEEDING WITH GENERAL EARTHWORK ON A PROJECT THE CONTRACTOR WILL OBTAIN APPROVAL OF HIS PROPOSED EARTHWORK AND STABILIZATION SCHEDULE.
7. DISTURBED AREAS ARE TO BE PROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION, THE AREA WILL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE) WITHIN 7 CALENDAR DAYS. TEMPORARY STABILIZATION THROUGH USE OR GROUND COVER, MULCHING, OR OTHER APPROVED MEASURES WILL BE INSTALLED WHENEVER SITE DEVELOPMENT WORK, GRADING OR OTHER EARTH DISTURBING ACTIVITIES CEASE TO BE CONTINUOUS FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE 7/14 DAY REQUIREMENT IS TAKEN TO MEAN THAT THE STABILIZATION OPERATION IS COMPLETE OR NEARING COMPLETION IN THE DEFINED TIME.
8. DITCHES, PERIMETER EROSION BARRIER, INLET FILTERS, ETC. SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON AS WELL AS THE WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED DOWN. PERIMETER EROSION BARRIER AND INLET FILTERS WILL BE CLEANED WHEN THEY ARE 50% FILLED, THESE SPOILS WILL BE REMOVED TO AN APPROVED SITE.
9. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION FOUND ON THE CONSTRUCTION TAB AT:
(<http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control>).
10. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
11. THE CONTRACTOR SHALL CHECK 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 THE WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
12. EXCAVATION TO BE USED FOR EMBANKMENTS SHALL NOT BE STOCKPILED UNLESS PERIMETER CONTROLS ARE UTILIZED. WHEN THIS MATERIAL IS STOCKPILED FOR THE CONVENIENCE OF THE CONTRACTOR THE COST OF THE CONTROLS ARE BORNE BY THE CONTRACTOR. IF THE MATERIAL IS STOCKPILED AT THE DIRECTION OF THE ENGINEER THE DEPARTMENT WILL ASSUME THE COSTS OF THE CONTROLS.
13. WHEN THE CONTRACTOR REQUESTS A CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATIONS, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION WITH STRAW MULCH PROVIDING THE FOLLOWING CONDITIONS ARE MET:
 - (A) ALL AREAS BEING STABILIZED ARE 3:1 SLOPES OR FLATTER.
 - (B) THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION WITH STRAW MULCH.
 - (C) ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.
14. INLET FILTERS SHALL BE APPLIED AT EACH EXISTING AND PROPOSED INLETS.
15. AVOID USING THE INLET AND PIPE PROTECTION SHOWN ON THE HIGHWAY STANDARD SHEETS 280001. STRAW BALES AND SILT FENCE SHOULD NOT BE USED AS INLET AND PIPE PROTECTION. INLET AND PIPE PROTECTION SHOULD BE COMPRISED OF DITCH CHECKS, TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET AND WILL BE INSTALLED AT ALL STORM SEWER AND CULVERTS. INLET FILTERS, AS SPECIFIED IN ARTICLE 1081.15(H) OF THE STANDARD SPECIFICATIONS (CURRENT EDITION) WILL BE INSTALLED AT ALL INLETS, CATCH BASINS, AND MANHOLES FOR THE DURATION OF CONSTRUCTION. INLET FILTERS WILL BE CLEANED ON A REGULAR BASIS. ENSURE PROPER QUANTITIES OF INLET FILTERS. DITCH CHECKS, TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET ARE INCLUDED IN THE CONTRACT.
16. THE CONTRACTOR SHOULD PROVIDE TO THE RE A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT BEARING WATERS, PARTICULARLY WHEN RAIN IS FORECASTED SO THAT FLOW WILL NOT ERODE. LACK OF AN APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.
17. 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.

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USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
	DRAWN - MAC	REVISED -
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PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

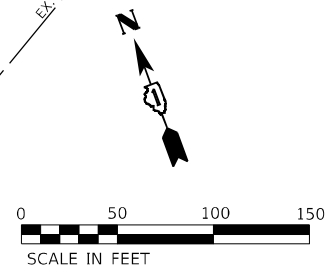
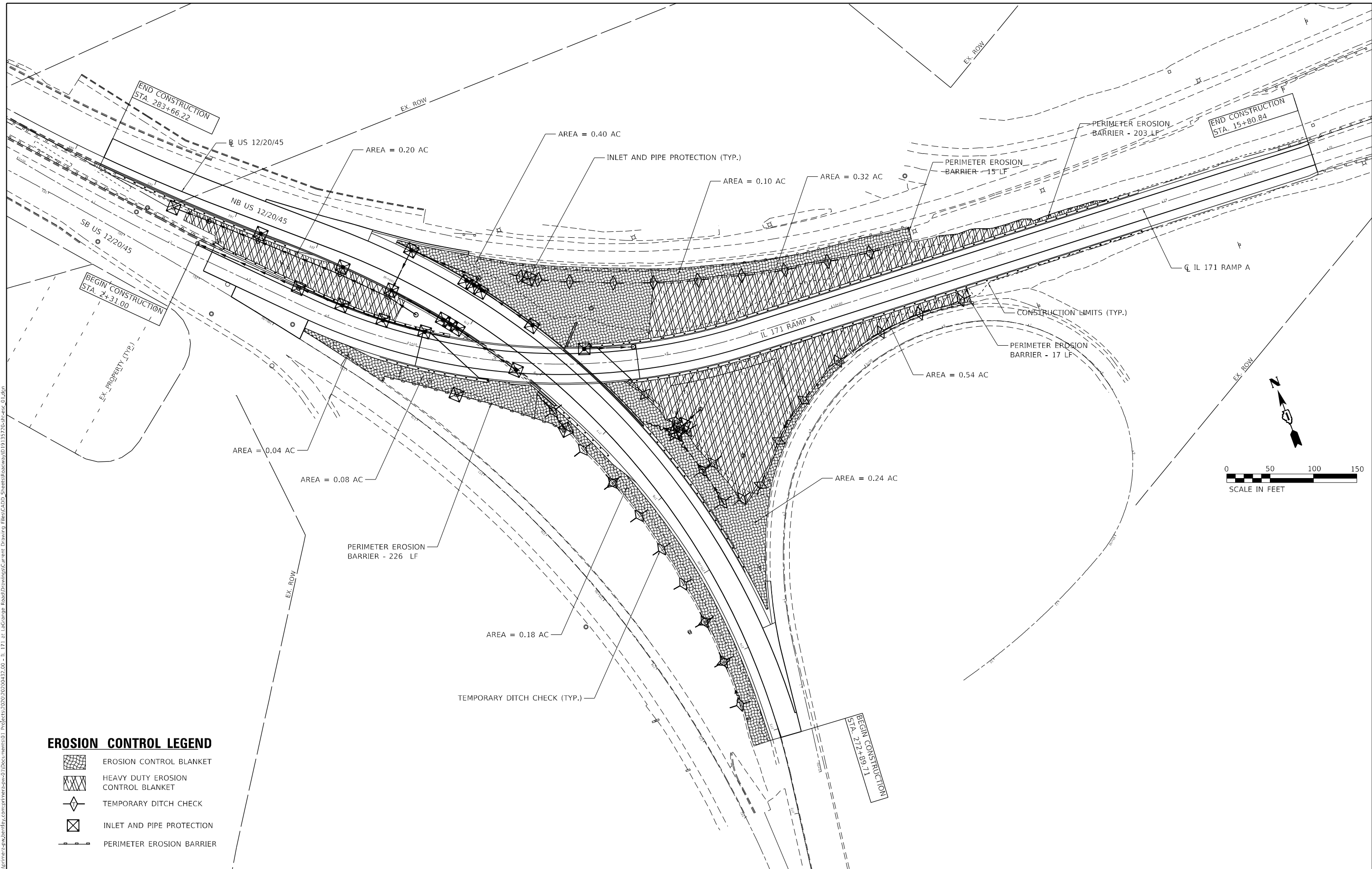
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
EROSION CONTROL NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	44
				CONTRACT NO. 62K60
		ILLINOIS	FED. AID PROJECT	

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EROSION CONTROL LEGEND

	EROSION CONTROL BLANKET
	HEAVY DUTY EROSION CONTROL BLANKET
	TEMPORARY DITCH CHECK
	INLET AND PIPE PROTECTION
	PERIMETER EROSION BARRIER



USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - MAC	REVISED -
PLOT DATE = 10/18/2023	CHECKED - AMB	REVISED -
	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
EROSION CONTROL PLAN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	45
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

DRAINAGE REMOVAL SCHEDULE									
LOCATION	SIDE	STORM SEWER REMOVAL 12"	STORM SEWER REMOVAL 24"	STORM SEWER REMOVAL 30"	STORM SEWER REMOVAL 36"	STORM SEWER REMOVAL 42"	DRAINAGE STRUCTURES TO BE REMOVED		
		55100500 FOOT	55101200 FOOT	55101400 FOOT	55101600 FOOT	55101800 FOOT	Z0018700 EACH		
US 12/20/45									
276+50.00	TO	276+50.00	RT	27			1		
278+36.00	TO	279+80.00	RT	147					
278+36.00			RT				1		
278+58.00			RT				1		
278+75.00			RT				1		
279+20.12	TO	279+80.00	RT		71				
279+80.00	TO	279+87.00	RT/LT		22				
279+61.00	TO	279+87.00	LT		32				
279+87.00	TO	281+12.00	LT			124			
281+12.00	TO	282+26.00	LT			87			
279+80.00			RT				1		
279+87.00			LT				1		
281+12.00			LT				1		
281+03.00	TO	281+12.00	LT	48					
282+25.48	TO	282+26.58	LT				10		
282+25.48			LT				1		
282+67.88	TO	282+25.48	LT	43					
282+67.88			LT				1		
282+69.64	TO	282+67.88	LT	10					
TOTAL				275	125	124	87	10	9

DRAINAGE STRUCTURE SCHEDULE												
STRUCTURE NO.	ALIGNMENT	STATION	OFFSET	RIM ELEV.	STRUCTURE TYPE	PAY ITEM NO.	NORTH	EAST	SOUTH	WEST	OTHER	NOTES
S-1	US 12/20/45	276+48.80	60.83	RT	594.65	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	54213657		594.65			
S-4	US 12/20/45	278+41.75	34.00	RT	594.61	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	60201340	590.51				
S-5	US 12/20/45	279+10.12	34.00	RT	594.46	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	60201340	589.79		589.79		
S-6	US 12/20/45	279+20.12	34.00	RT	594.51	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	60201340	589.69	589.69	589.69		
S-7	US 12/20/45	279+30.12	34.00	RT	594.56	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	60201340			589.79		
S-8	US 12/20/45	279+20.12	44.88	RT	595.94	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	60221100	589.59			589.59	(590.15)
S-9	US 12/20/45	280+00.00	34.00	RT	595.28	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 24 FRAME AND GRATE	60224039			588.92	588.92	
S-10	US 12/20/45	278+25.54	16.75	LT	592.60	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 10 FRAME AND GRATE	60201005	589.34				
S-11	US 12/20/45	279+10.12	16.75	LT	592.24	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 10 FRAME AND GRATE	60201005	588.91		588.91		
S-12	US 12/20/45	279+20.12	16.75	LT	592.23	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 10 FRAME AND GRATE	60201005	588.86		588.86		
S-13	US 12/20/45	279+30.12	16.75	LT	592.24	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 10 FRAME AND GRATE	60201005	588.81		588.81		
S-14	US 12/20/45	279+60.74	28.16	LT	603.69	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	60218400	591.41		(591.41)		
S-15	US 12/20/45	280+00.00	15.46	LT	592.68	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 10 FRAME AND GRATE	60204705	588.50		588.50		
S-16	US 12/20/45	280+00.00	24.86	LT	596.81	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	60224446	588.43		588.85	588.43	
S-17	US 12/20/45	280+63.23	23.94	LT	596.66	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	60223800	588.26		588.26	588.50	
S-18	US 12/20/45	280+63.23	13.94	LT	593.77	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 10 FRAME AND GRATE	60201005				588.87	
S-19	US 12/20/45	281+65.74	21.59	LT	597.01	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	60223800	587.98		587.98		592.23
S-20	US 12/20/45	281+65.74	11.59	LT	595.88	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 10 FRAME AND GRATE	60201005				592.33	
S-21	US 12/20/45	282+25.58	20.22	LT	598.73	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	60224446	593.56		587.69	(587.69)	
S-22	RAMP A	3+58.00	18.00	LT	604.51	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 11V FRAME AND GRATE	60204825		598.83	(598.83)	598.83	
S-23	RAMP A	4+13.08	18.00	LT	606.41	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	60201110		601.35		601.35	
S-24	RAMP A	4+64.46	18.00	LT	608.82	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	60201110		603.76		603.76	
S-25	RAMP A	5+15.84	18.00	LT	611.24	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	60201110				606.18	
S-26	RAMP A	7+06.26	16.00	LT	616.81	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	60237470	611.71				
S-27	RAMP A	7+64.22	15.00	LT	617.59	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	60218400	(592.48)		(592.48)	611.14	

DRAINAGE ADJUSTMENT SCHEDULE			
LOCATION	SIDE	CATCH BASINS TO BE ADJUSTED	MANHOLES TO BE ADJUSTED
		60250200 EACH	60255500 EACH
RAMP A			
2+82.14	RT	1	
3+69.57	RT		1
TOTAL		1	1

DRAINAGE PIPE SCHEDULE										
PIPE NO.	FROM STRUCTURE	TO STRUCTURE	PAY ITEM DESCRIPTION	PAY ITEM NO.	TRENCH BACKFILL (CY)	LENGTH (FT)	SLOPE (%)	AVERAGE COVER (FT)	NOTES	
P-1	S-1	EX. MH	STORM SEWERS, CLASS A, TYPE 2 12"	550A0340	38.4	37.7	4.11%	5.79		
P-4	S-4	S-5	STORM SEWERS, CLASS A, TYPE 2 12"	550A0340	27.6	72.0	1.00%	3.22		
P-5	S-5	S-6	STORM SEWERS, CLASS A, TYPE 2 12"	550A0340	4.3	10.0	1.00%	3.58		
P-6	S-6	S-8	STORM SEWERS, CLASS A, TYPE 2 12"	550A0340	4.3	10.0	1.00%	4.42		
P-7	S-7	S-6	STORM SEWERS, CLASS A, TYPE 2 12"	550A0340	7.9	10.0	1.00%	3.63		
P-8	S-8	S-9	STORM SEWERS, CLASS A, TYPE 2 24"	550A0410	85.0	84.2	0.80%	4.11		
P-9	S-9	S-15	STORM SEWERS, CLASS A, TYPE 2 24"	550A0410	41.9	52.0	0.81%	3.02		
P-10	S-10	S-11	STORM SEWERS, CLASS A, TYPE 1 12"	550A0050	23.7	85.0	0.50%	2.13		
P-11	S-11	S-12	STORM SEWERS, CLASS A, TYPE 1 12"	550A0050	2.8	10.0	0.50%	2.18		
P-12	S-12	S-13	STORM SEWERS, CLASS A, TYPE 1 12"	550A0050	3.0	10.0	0.50%	2.23		
P-13	S-13	S-15	STORM SEWERS, CLASS A, TYPE 1 12"	550A0050	21.2	62.0	0.50%	2.64		
P-14	S-14	S-16	STORM SEWERS, CLASS A, TYPE 2 24"	550A0410	68.1	38.2	6.70%	7.87		
P-15	S-15	S-16	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 30"	550A4300	8.8	8.6	0.81%	3.49		
P-16	S-16	S-17	STORM SEWERS, CLASS A, TYPE 2 36"	550A0450	92.8	61.5	0.28%	5.06		
P-17	S-17	S-19	STORM SEWERS, CLASS A, TYPE 2 36"	550A0450	163.9	102.0	0.27%	5.38		
P-18	S-18	S-17	STORM SEWERS, CLASS A, TYPE 2 12"	550A0340	9.5	10.0	3.70%	5.36		
P-19	S-19	S-21	STORM SEWERS, CLASS A, TYPE 2 36"	550A0450	119.1	61.0	0.48%	6.74		
P-20	S-20	S-19	STORM SEWERS, CLASS A, TYPE 1 12"	550A0050	3.6	10.0	1.00%	3.00		
P-21	EX. MH	S-21	STORM SEWERS, CLASS A, TYPE 2 12"	550A0340	32.1	44.0	1.00%	3.92		
P-22	S-23	S-22	STORM SEWERS, CLASS A, TYPE 2 12"	550A0340	40.3	53.0	4.75%	4.20		
P-23	S-24	S-23	STORM SEWERS, CLASS A, TYPE 2 12"	550A0340	36.4	50.0	4.82%	3.89		
P-24	S-25	S-24	STORM SEWERS, CLASS A, TYPE 2 12"	550A0340	36.4	50.0	4.84%	3.89		
P-25	S-26	S-27	STORM SEWERS, CLASS A, TYPE 2 12"	550A0340	47.0	57.0	1.00%	4.61		
P-26	S-22	EX. MH	STORM SEWERS, CLASS A, TYPE 2 12"	550A0340	101.1	127.5	2.22%	4.32		
TOTAL					1019.0					

PIPE UNDERDRAIN NUMBER	LOCATION STATION TO STATION	SIDE	PIPE UNDERDRAINS, TYPE 2, 4"	PIPE UNDERDRAINS, TYPE 1, 4" (SPECIAL)	CONCRETE HEADWALLS FOR PIPE DRAINS
			60108204 FOOT	60108100 FOOT	60100060 EACH
NB US 12/20/45					
10-1	272+89.71 TO 277+00	LT OUTSIDE	410		
10-2	277+00	LT OUTSIDE		24	1
10-3	277+00 TO 279+20	LT OUTSIDE	219		
10-4	279+20	LT OUTSIDE		16	
10-5	279+25 TO 283+66.22	LT OUTSIDE	436		
10-6	279+25	LT OUTSIDE		16	
NB IL 171 RAMP A					
20-1	2+50 TO 5+14	LT OUTSIDE	262		
20-2	2+30 TO 2+50	LT OUTSIDE		20	
20-3	3+84 TO 5+14	RT OUTSIDE	133		
20-4	3+70 TO 3+84	RT OUTSIDE		19	
20-5	8+00	LT OUTSIDE		15	1
20-6	8+00 TO 11+50	LT OUTSIDE	350		
20-7	11+50	LT OUTSIDE		15	1
20-8	15+50	RT OUTSIDE		20	1
20-9	8+25 TO 11+50	RT OUTSIDE	325		
20-10	5+25	RT OUTSIDE		20	1
30-1	11+50 TO 15+80.84	LT OUTSIDE	431		
30-2	11+50 TO 15+80.84	RT OUTSIDE	431		
TOTAL			2997	165	5



USER NAME = Michael.Czerpak	DESIGNED - MPV	REVISED -
	DRAWN - MPV	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-2757 IL 171 OVER US 45
DRAINAGE SCHEDULE

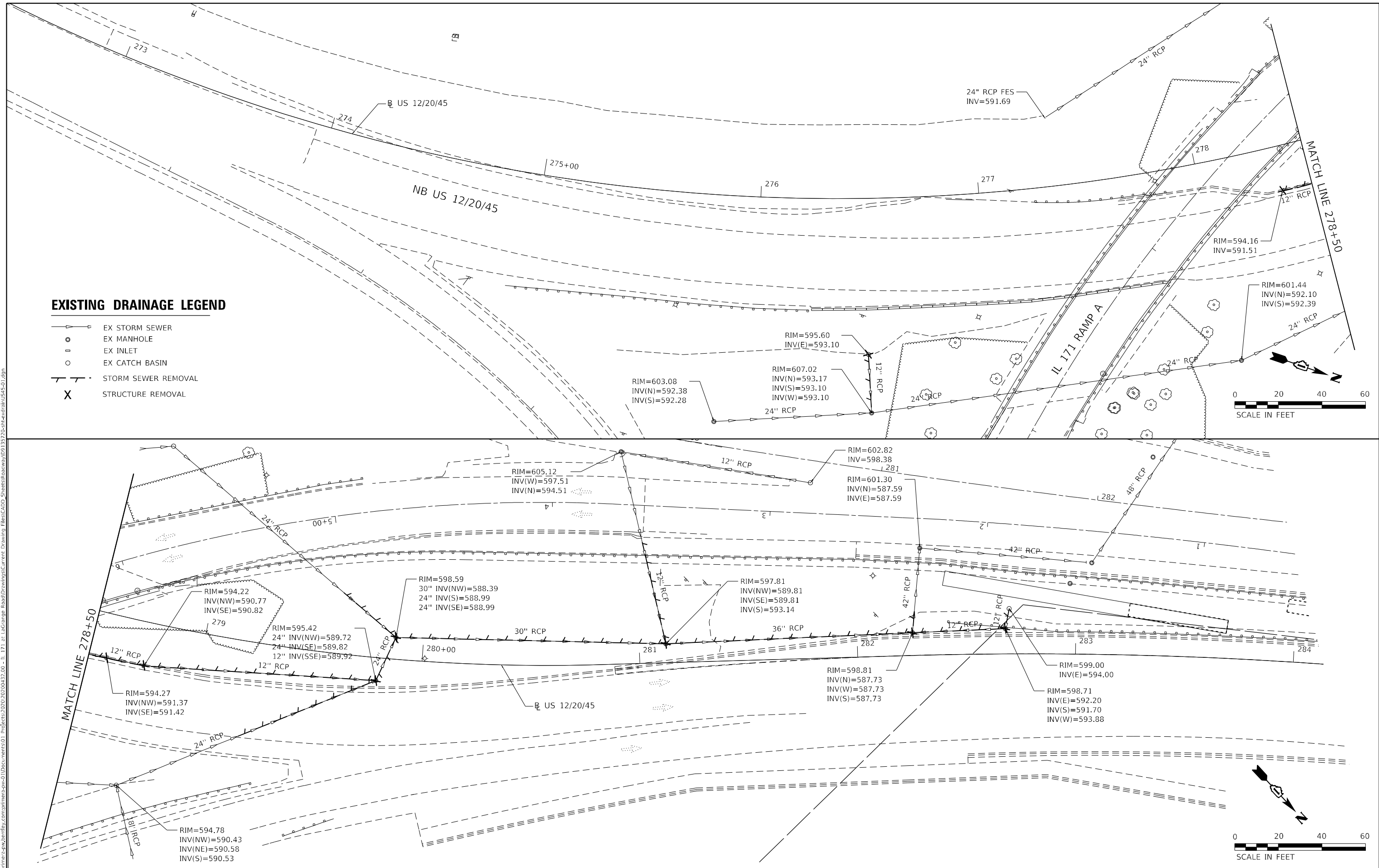
SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	46
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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EXISTING DRAINAGE LEGEND

- EX STORM SEWER
- EX MANHOLE
- EX INLET
- EX CATCH BASIN
- STORM SEWER REMOVAL
- STRUCTURE REMOVAL



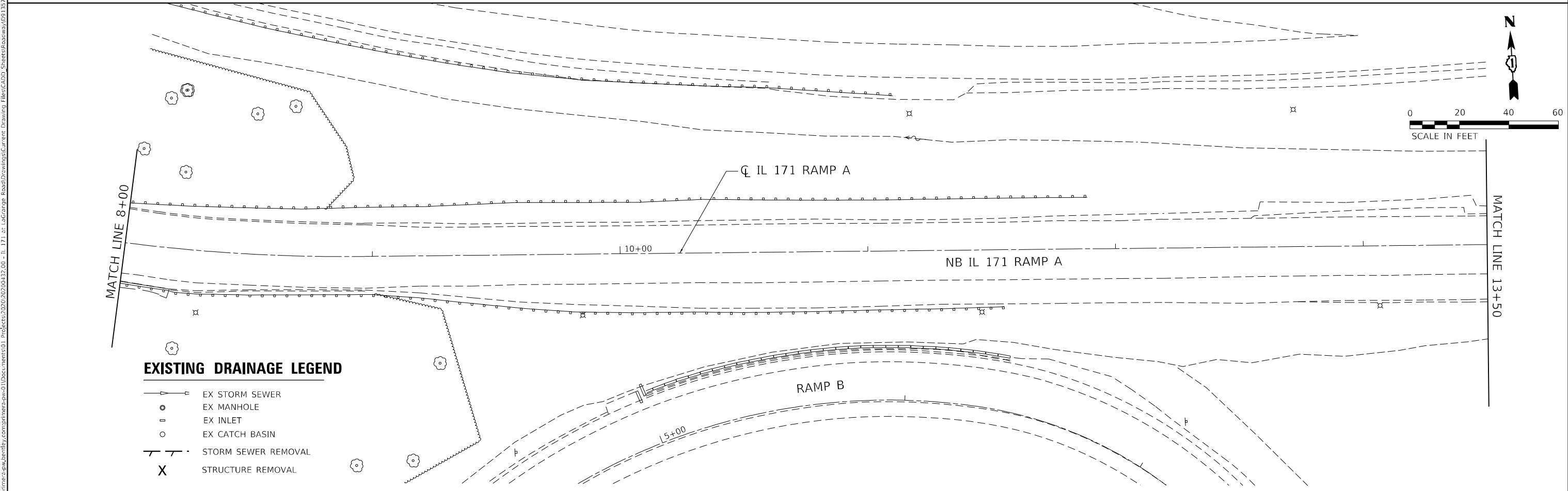
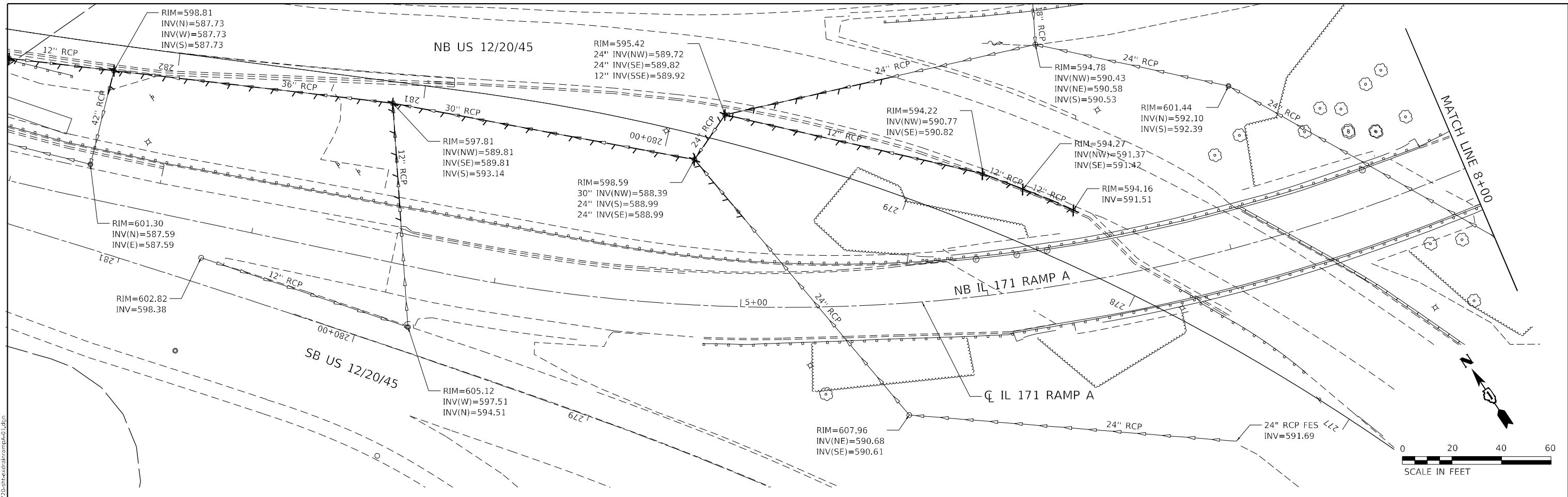
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DRAWN - MPV	REVISED -	
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
UTILITIES AND DRAINAGE REMOVAL PLAN**

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

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 47
CONTRACT NO.62K60				
ILLINOIS FED. AID PROJECT				



- EXISTING DRAINAGE LEGEND**
- EX STORM SEWER
 - EX MANHOLE
 - EX INLET
 - EX CATCH BASIN
 - STORM SEWER REMOVAL
 - STRUCTURE REMOVAL



USER NAME = Michael.Czerpak	DESIGNED - MPV	REVISED -
	DRAWN - MPV	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

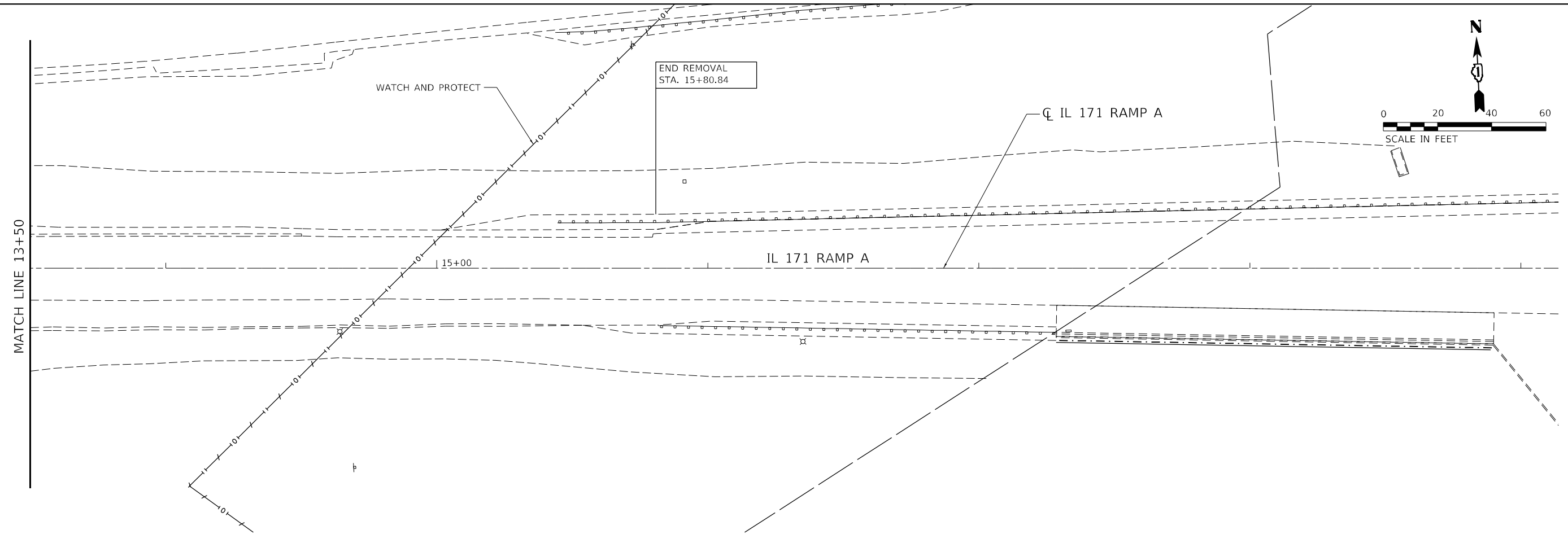
**SN 016-2757 IL 171 OVER US 45
UTILITIES AND DRAINAGE REMOVAL PLAN**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 48
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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EXISTING DRAINAGE LEGEND

- T — EX STORM SEWER
- EX MANHOLE
- EX INLET
- EX CATCH BASIN
- - - STORM SEWER REMOVAL
- X STRUCTURE REMOVAL



USER NAME = Michael.Czerpak	DESIGNED - MPV	REVISED -
DRAWN - MPV	REVISED -	
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
 UTILITIES AND DRAINAGE REMOVAL PLAN**

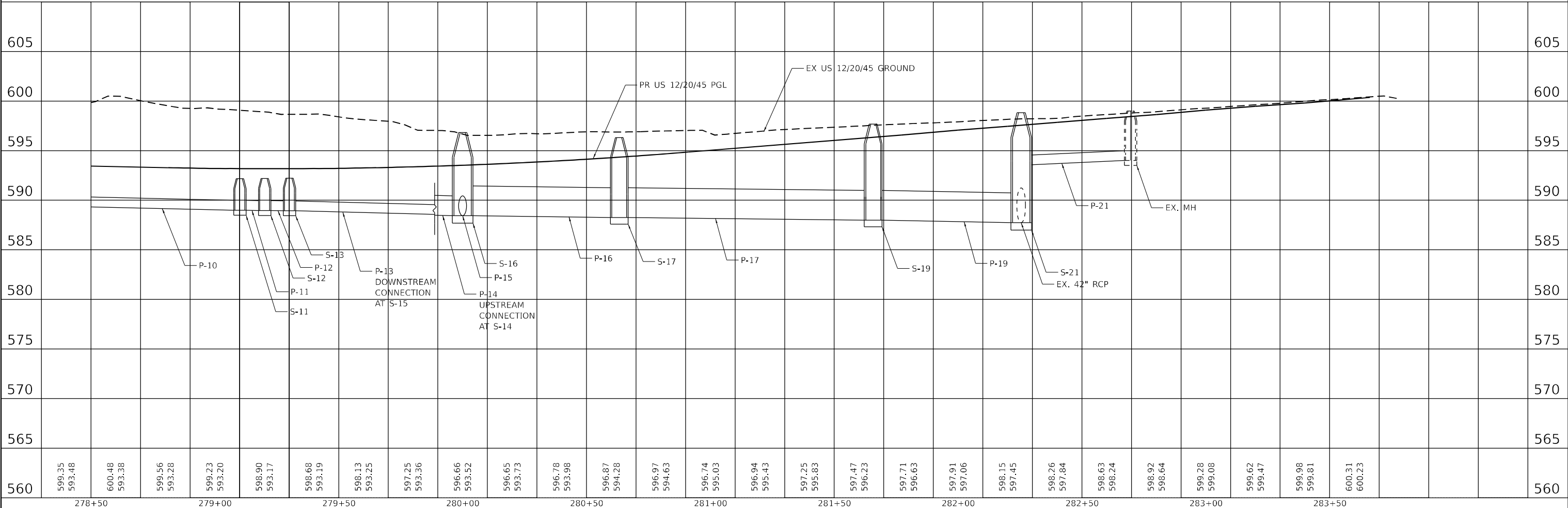
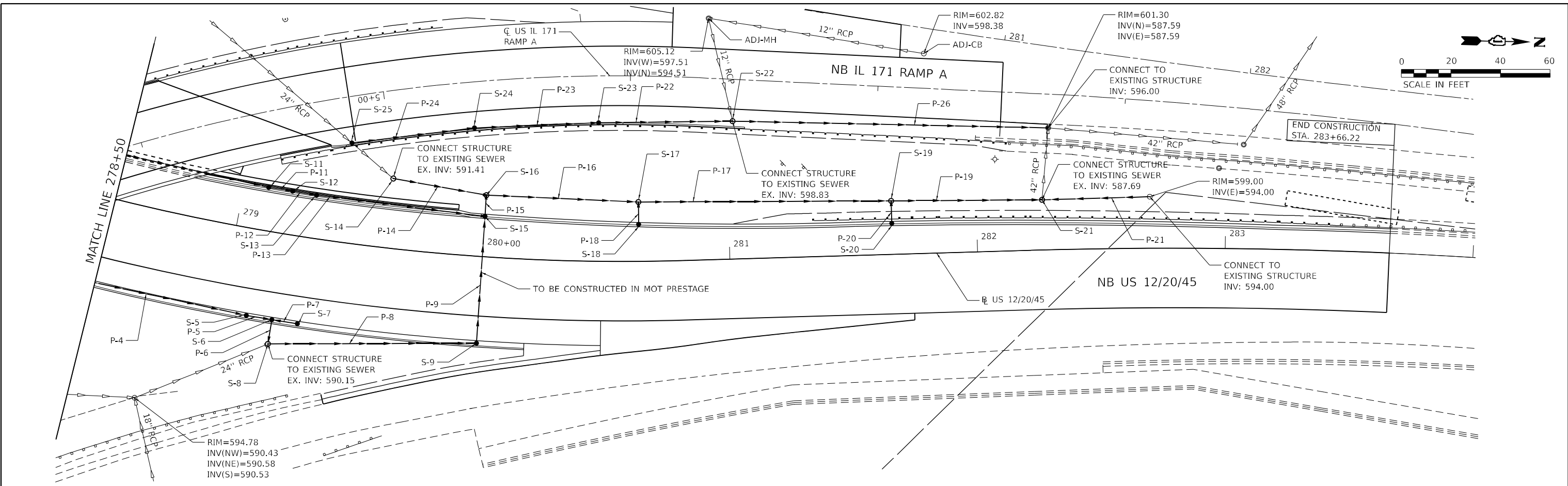
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	49
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	GRADE CHECKED	
	STRUCTURE NOTATIONS CIPED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CIPED	
	NOTE BOOK NO.	
	CADD FILE NAME	

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	593.48	593.38	593.28	593.20	593.17	593.19	593.25	593.36	593.52	593.73	593.98	594.28	594.63	595.03	595.83	596.23	596.63	597.06	597.45	597.84	598.24	598.64	599.08	599.47	599.81	600.23	605
	278+50	279+00	279+50	280+00	280+50	281+00	281+50	282+00	282+50	283+00	283+50																



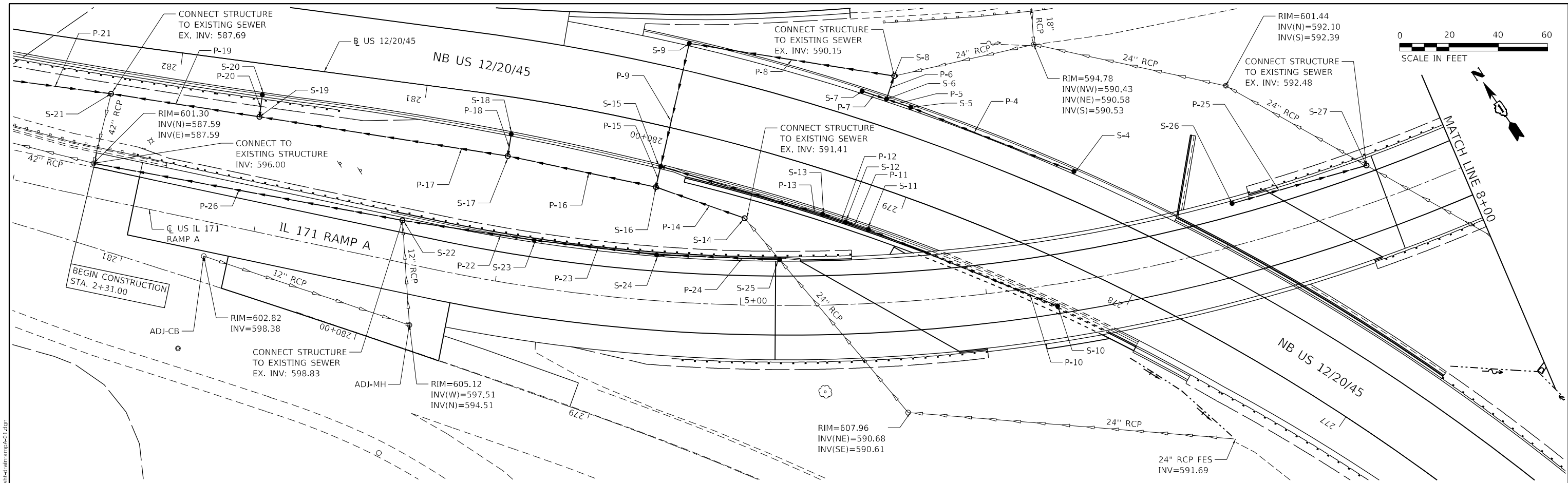
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	DRAWN - MPV	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

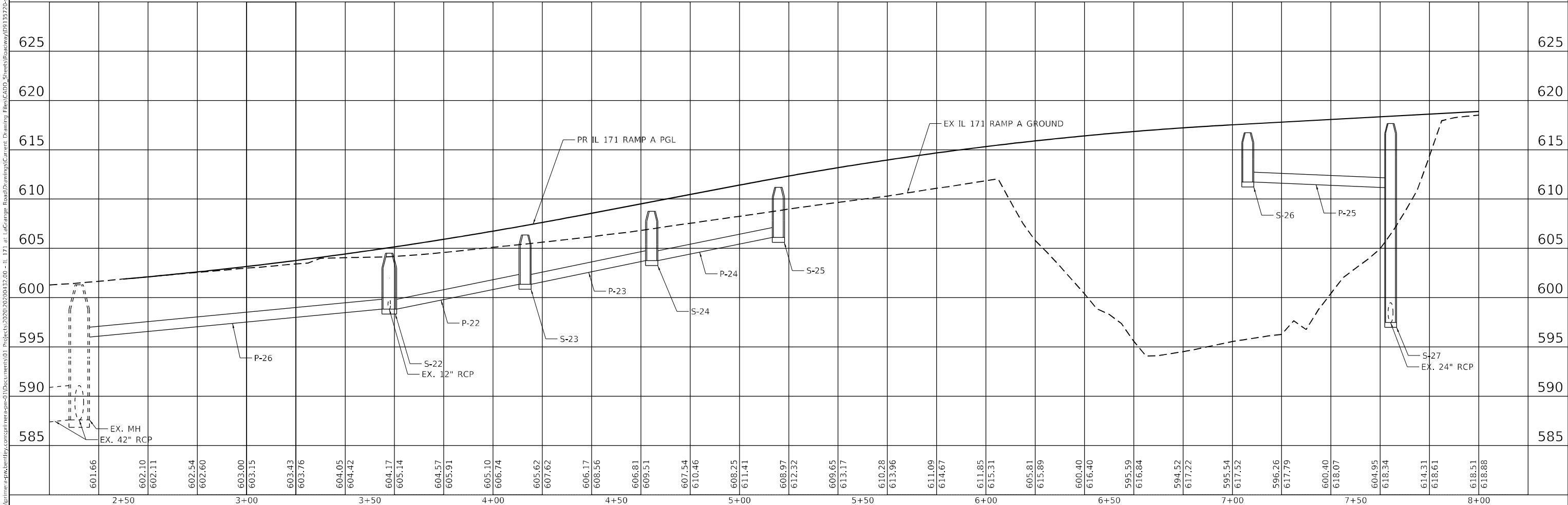
SN 016-2757 IL 171 OVER US 45			
DRAINAGE PLANS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 51
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	
NO.	
NOTE BOOK	
NO.	
STRUCTURE	
NOTARIS	
NO.	
DATE	
BY	
PROFILE	
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NOTE BOOK	
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STRUCTURE	
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DATE	
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DATE	
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PROFILE	
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NOTE BOOK	
NO.	
STRUCTURE	
NOTARIS	
NO.	
DATE	
BY	



USER NAME = MichaelCzerpak	DESIGNED - MPV	REVISED -
	DRAWN - MPV	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SN 016-2757 IL 171 OVER US 45 DRAINAGE PLANS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

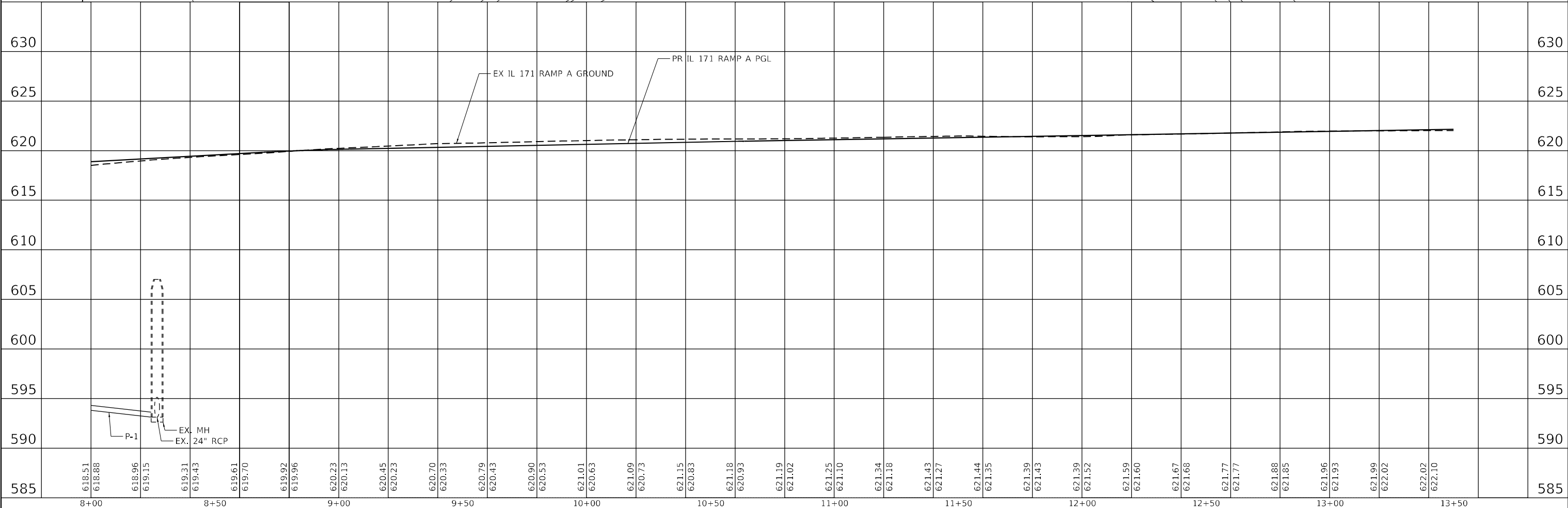
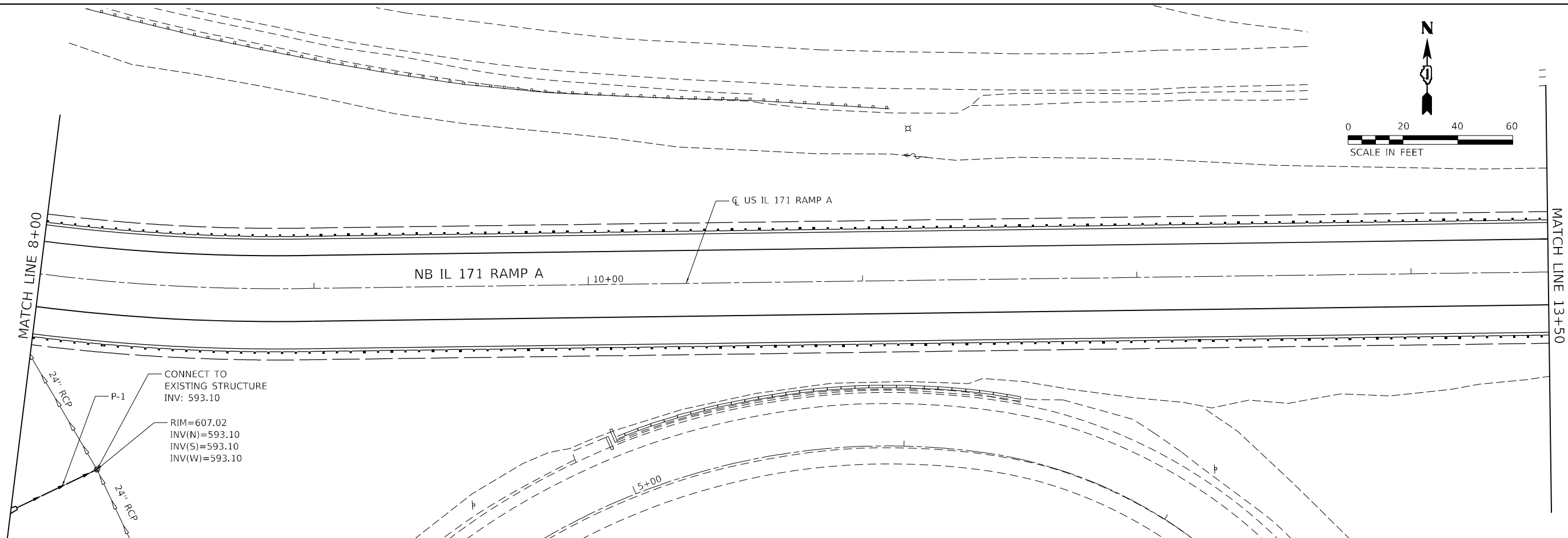
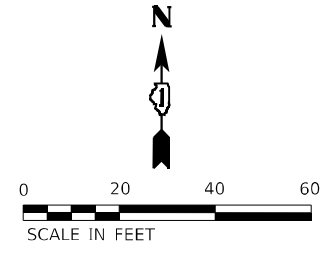
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	52
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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 BY: MichaelCzerpak
 CHECKED: MichaelCzerpak
 DESIGNED: MichaelCzerpak
 DRAWN: MichaelCzerpak
 PLOT SCALE: 40,0000 * / in.
 PLOT DATE: 10/18/2023

DATE	
BY	
PLAN	
REVIEWED	
PLOTTED	
ALIGNMENT CHECKED	
NOTE BOOK NO.	
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DATE	
BY	
PROFILE	
REVIEWED	
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8+00	8+50	9+00	9+50	10+00	10+50	11+00	11+50	12+00	12+50	13+00	13+50																																												
618.51	618.88	618.96	619.15	619.31	619.43	619.61	619.70	619.92	619.96	620.23	620.13	620.45	620.23	620.70	620.33	620.79	620.43	620.90	620.53	621.01	620.63	621.09	620.73	621.15	620.83	621.18	620.93	621.19	621.02	621.25	621.10	621.34	621.18	621.43	621.27	621.44	621.35	621.39	621.43	621.39	621.52	621.59	621.60	621.67	621.68	621.77	621.77	621.88	621.85	621.96	621.93	621.99	622.02	622.02	622.10



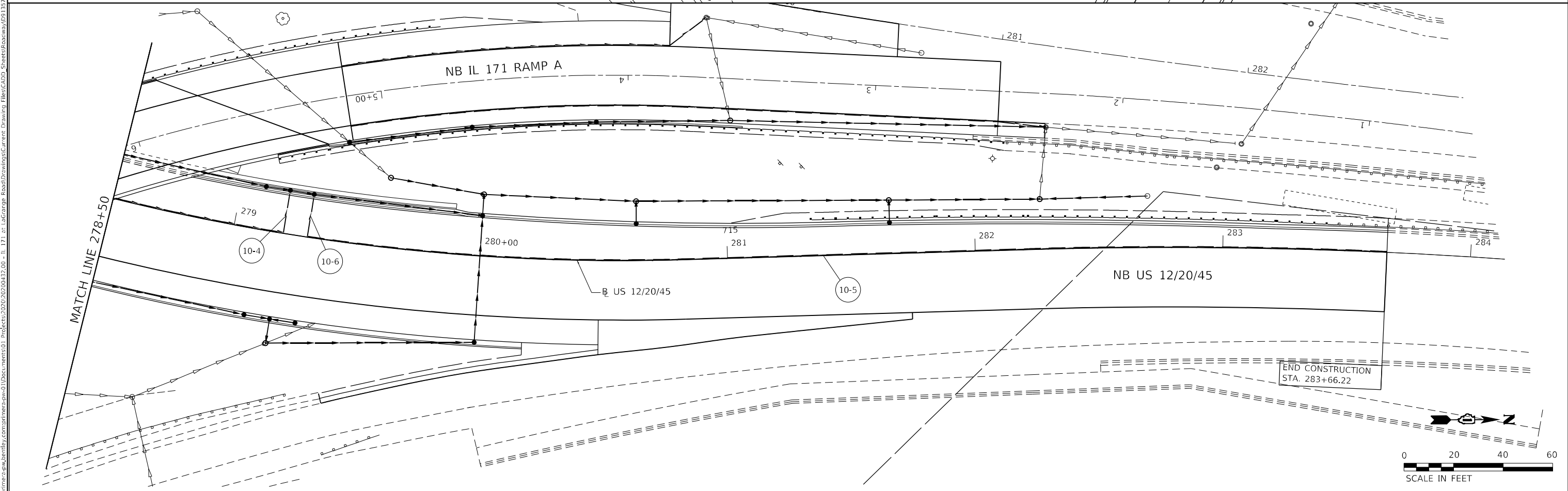
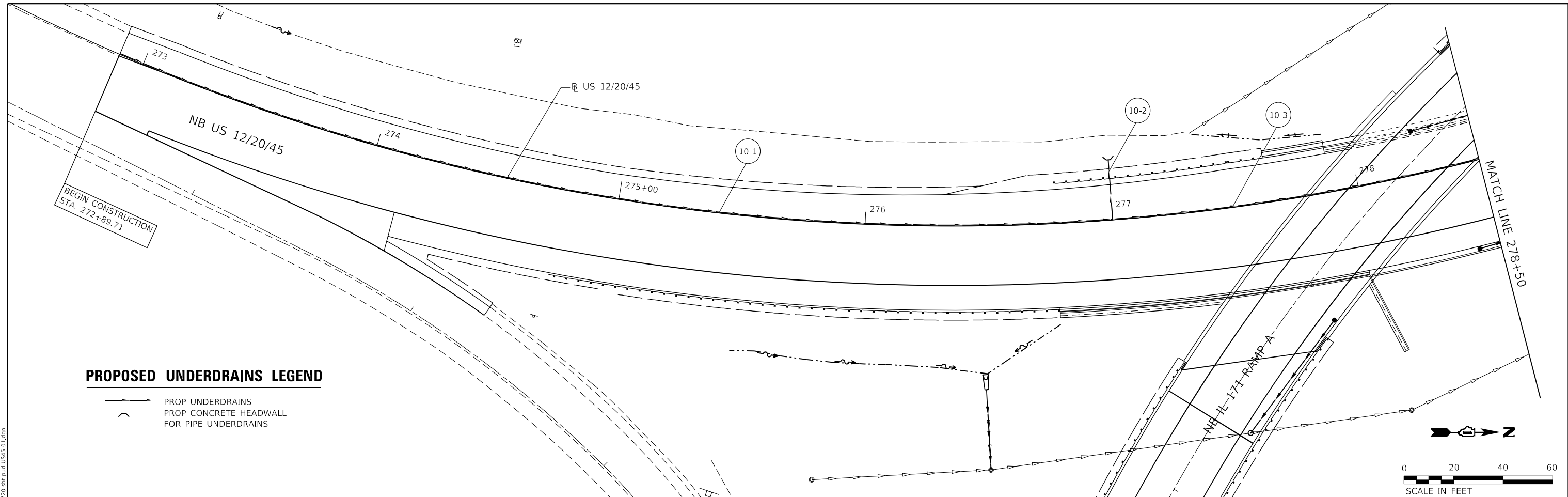
USER NAME = Michael.Czerpak	DESIGNED - MPV	REVISIED -
	DRAWN - MPV	REVISIED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISIED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
DRAINAGE PLANS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	53
CONTRACT NO. 62K60			ILLINOIS FED. AID PROJECT	

SCALE: SHEET OF SHEETS STA. TO STA.



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 USER: Michael.Czerpak
 DESIGNED: MPV
 DRAWN: MPV
 CHECKED: MPV
 DATE: 10/18/2023

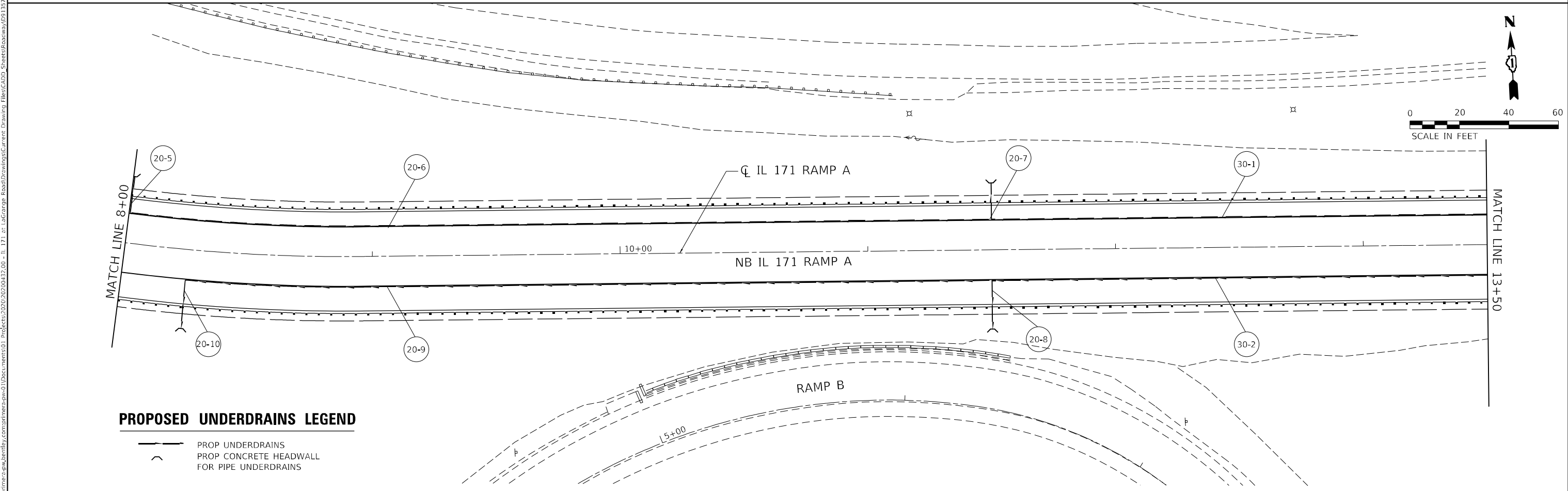
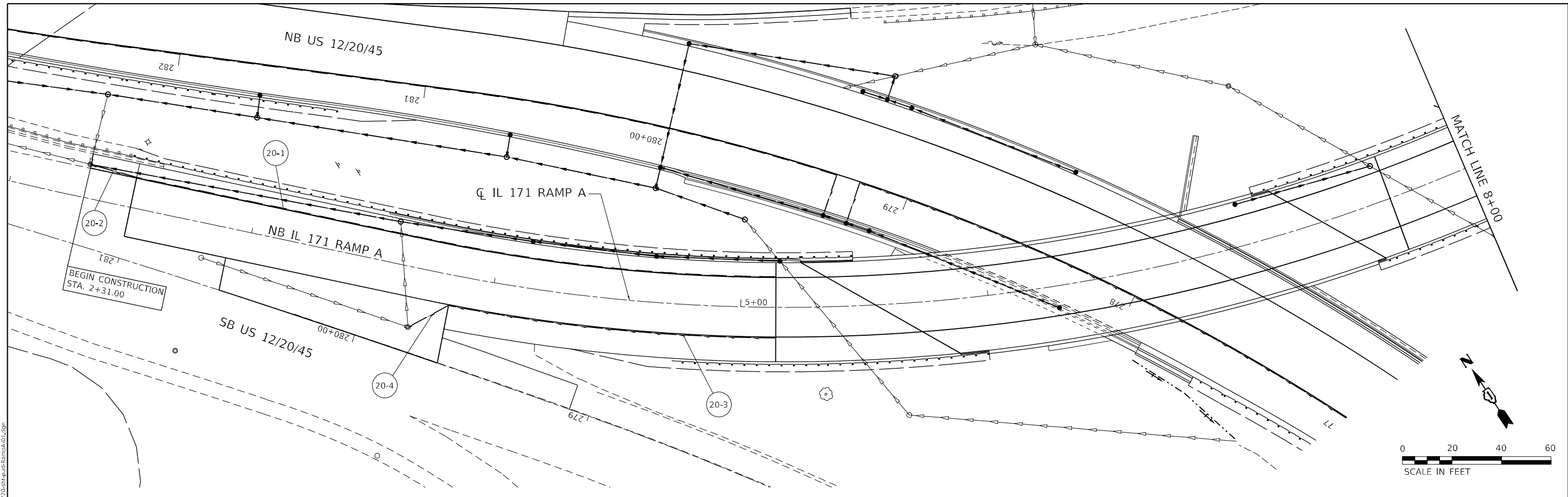


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	DRAWN - MPV	REVISED -
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PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SN 016-2757 IL 171 OVER US 45 PROPOSED PIPE UNDERDRAIN PLAN			
SCALE:	SHEET 1	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 55
CONTRACT NO.62K60				
ILLINOIS FED. AID PROJECT				



PROPOSED UNDERDRAINS LEGEND

- PROP UNDERDRAINS
- PROP CONCRETE HEADWALL FOR PIPE UNDERDRAINS



USER NAME = Michael.Czerpak	DESIGNED - MPV	REVISED -
DRAWN - MPV	REVISED -	
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

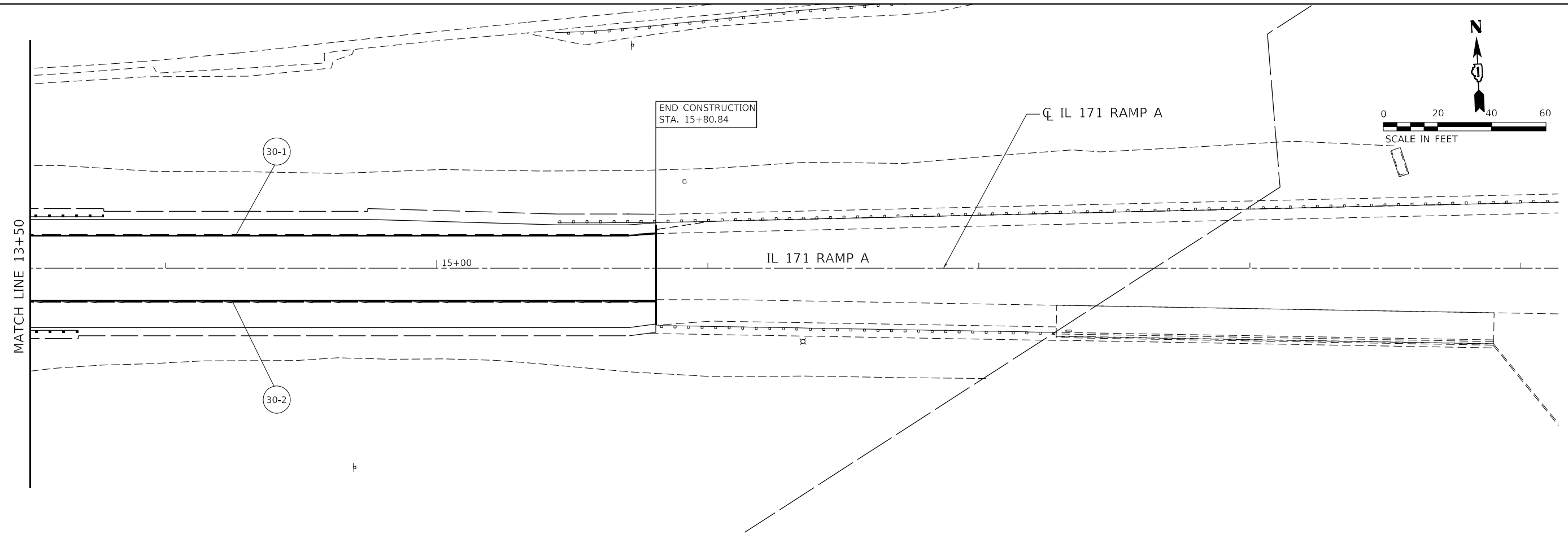
**SN 016-2757 IL 171 OVER US 45
PROPOSED PIPE UNDERDRAIN PLAN**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 56
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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PROPOSED UNDERDRAINS LEGEND

- PROP UNDERDRAINS
- PROP CONCRETE HEADWALL FOR PIPE UNDERDRAINS



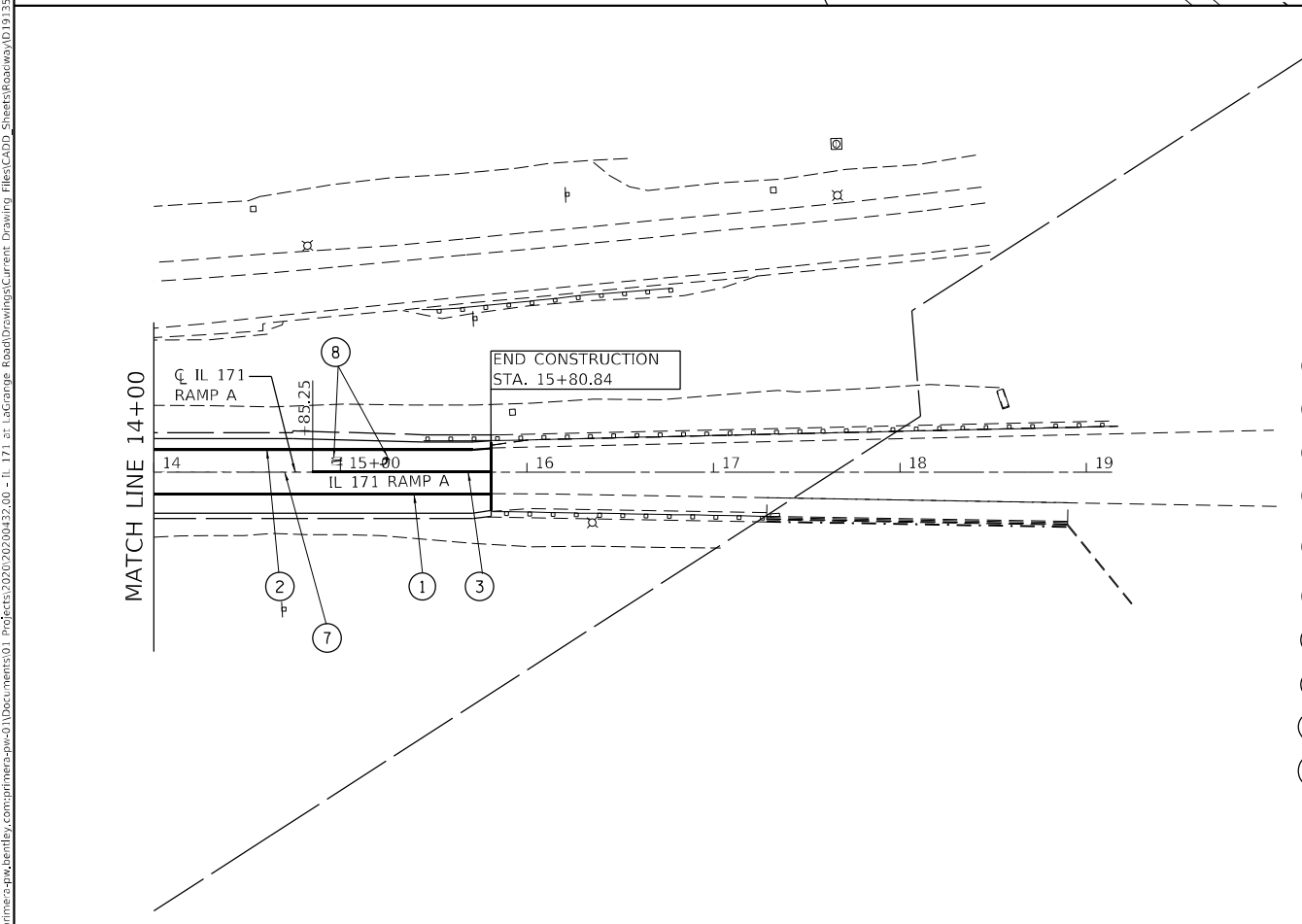
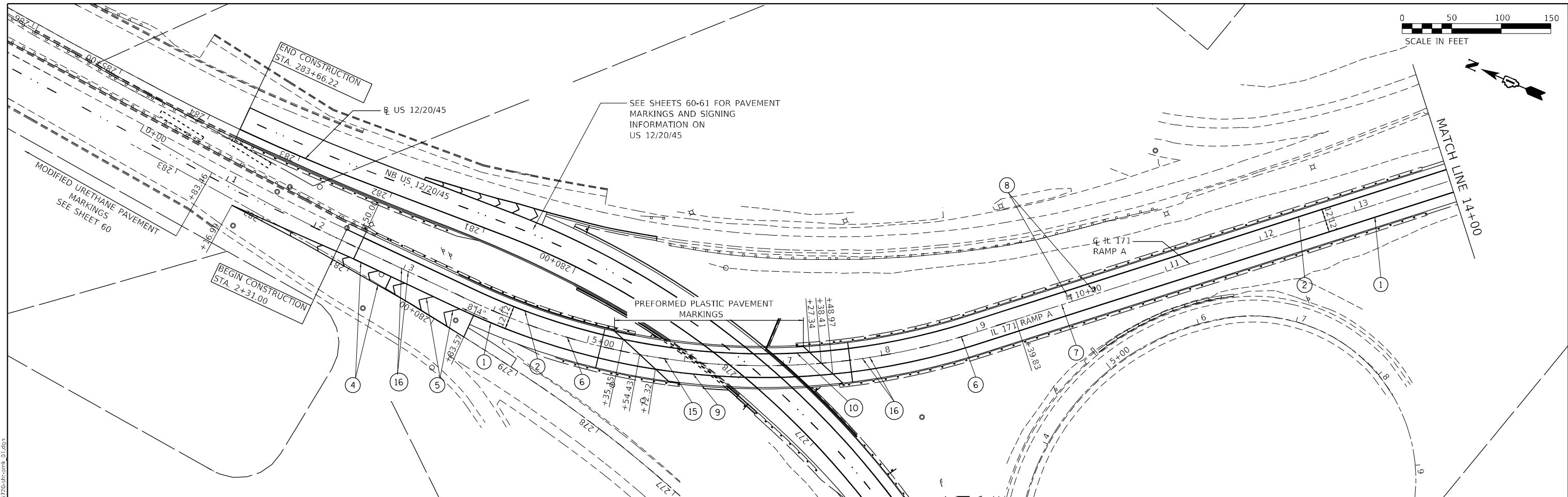
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DRAWN - MPV	REVISOR -	
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PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-2757 IL 171 OVER US 45
PROPOSED PIPE UNDERDRAIN PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	57
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



LEGEND:

- ① THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE EDGE LINES)
- ② THERMOPLASTIC PAVEMENT MARKING LINE 4" (YELLOW EDGE LINES)
- ③ THERMOPLASTIC PAVEMENT MARKING LINE 6" (WHITE EDGE LINES)
- ④ THERMOPLASTIC PAVEMENT MARKING LINE 8" (WHITE EDGE LINES)
- ⑤ THERMOPLASTIC PAVEMENT MARKING LINE 12" (WHITE GORE CHEVRONS SPACED @ 20' CENTERS)
- ⑥ THERMOPLASTIC PAVEMENT MARKING, LINE 4" (WHITE 10' DASH, 30' SKIP)
- ⑦ THERMOPLASTIC PAVEMENT MARKING, LINE 6" (WHITE 2' DASH, 6' SKIP)
- ⑧ THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS (WHITE)
- ⑨ MODIFIED URETHANE PAVEMENT MARKING TYPE 1, LINE 4" (WHITE EDGE LINES)
- ⑩ MODIFIED URETHANE PAVEMENT MARKING TYPE 1, LINE 4" (YELLOW EDGE LINES)
- ⑪ MODIFIED URETHANE PAVEMENT MARKING, LINE 4" (WHITE 10' DASH, 30' SKIP)
- ⑫ MODIFIED URETHANE PAVEMENT MARKING LINE 8" (WHITE EDGE LINES)
- ⑬ MODIFIED URETHANE PAVEMENT MARKING LINE 12" (WHITE GORE CHEVRONS SPACED @ 20' CENTERS)
- ⑭ MODIFIED URETHANE PAVEMENT MARKING, LINE 6" (WHITE 2' DASH, 6' SKIP)
- ⑮ PREFORMED PAVEMENT MARKING, TYPE D, LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) (10' DASH, 30' SKIP) (GROOVED)
- ⑯ RAISED REFLECTIVE PAVEMENT MARKER

NOTES

1. SEE IDOT DISTRICT 1 STANDARD TC-11 FOR PLACEMENT OF RAISED REFLECTIVE PAVEMENT MARKERS.
2. FOR PROPOSED PAVEMENT MARKINGS IN THE PCC SECTIONS USE MODIFIED URETHANE PAVEMENT MARKINGS ACCORDING TO STANDARD TC-13.
3. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE OMITTED ON THE BRIDGE DECK.
4. PREFORMED PAVEMENT MARKINGS, TYPE D, AND GROOVING FOR RECESSED PAVEMENT MARKINGS SHALL BE USED FOR ALL LANE LINE PAVEMENT MARKINGS WITHIN BRIDGE LIMITS AND PCC PAVEMENT.



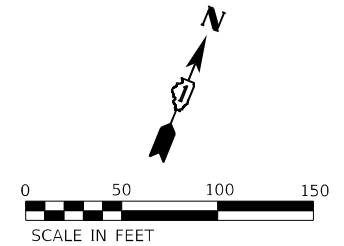
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PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SN 016-2757 IL 171 OVER US 45 SIGNING & PAVEMENT MARKING PLAN			
SCALE:	SHEET 1	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 58
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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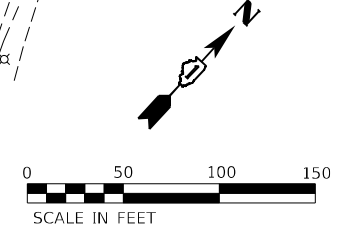
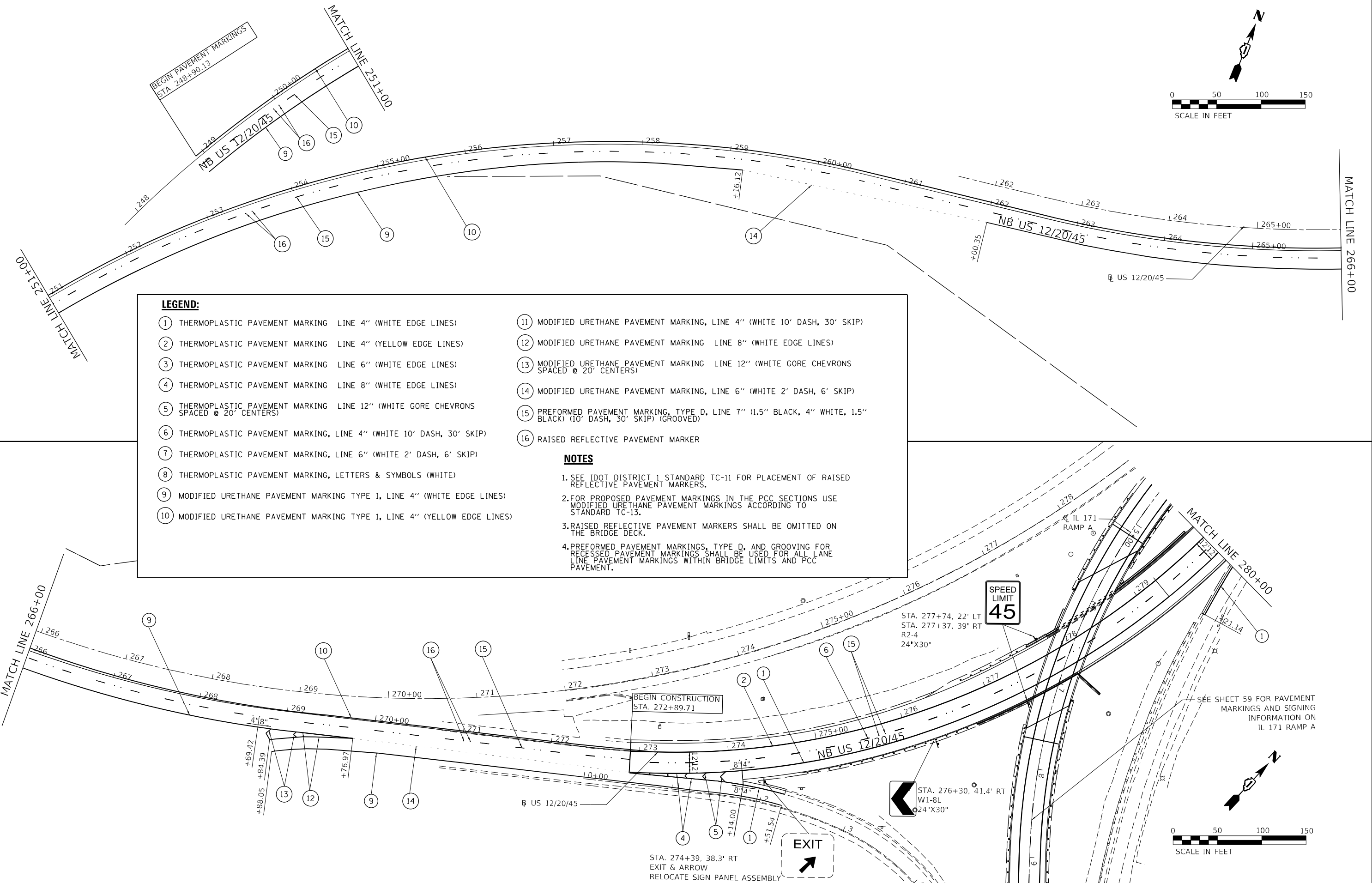


LEGEND:

① THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE EDGE LINES)	⑪ MODIFIED URETHANE PAVEMENT MARKING, LINE 4" (WHITE 10' DASH, 30' SKIP)
② THERMOPLASTIC PAVEMENT MARKING LINE 4" (YELLOW EDGE LINES)	⑫ MODIFIED URETHANE PAVEMENT MARKING LINE 8" (WHITE EDGE LINES)
③ THERMOPLASTIC PAVEMENT MARKING LINE 6" (WHITE EDGE LINES)	⑬ MODIFIED URETHANE PAVEMENT MARKING LINE 12" (WHITE GORE CHEVRONS SPACED @ 20' CENTERS)
④ THERMOPLASTIC PAVEMENT MARKING LINE 8" (WHITE EDGE LINES)	⑭ MODIFIED URETHANE PAVEMENT MARKING, LINE 6" (WHITE 2' DASH, 6' SKIP)
⑤ THERMOPLASTIC PAVEMENT MARKING LINE 12" (WHITE GORE CHEVRONS SPACED @ 20' CENTERS)	⑮ PREFORMED PAVEMENT MARKING, TYPE D, LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) (10' DASH, 30' SKIP) (GROOVED)
⑥ THERMOPLASTIC PAVEMENT MARKING, LINE 4" (WHITE 10' DASH, 30' SKIP)	⑯ RAISED REFLECTIVE PAVEMENT MARKER
⑦ THERMOPLASTIC PAVEMENT MARKING, LINE 6" (WHITE 2' DASH, 6' SKIP)	
⑧ THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS (WHITE)	
⑨ MODIFIED URETHANE PAVEMENT MARKING TYPE 1, LINE 4" (WHITE EDGE LINES)	
⑩ MODIFIED URETHANE PAVEMENT MARKING TYPE 1, LINE 4" (YELLOW EDGE LINES)	

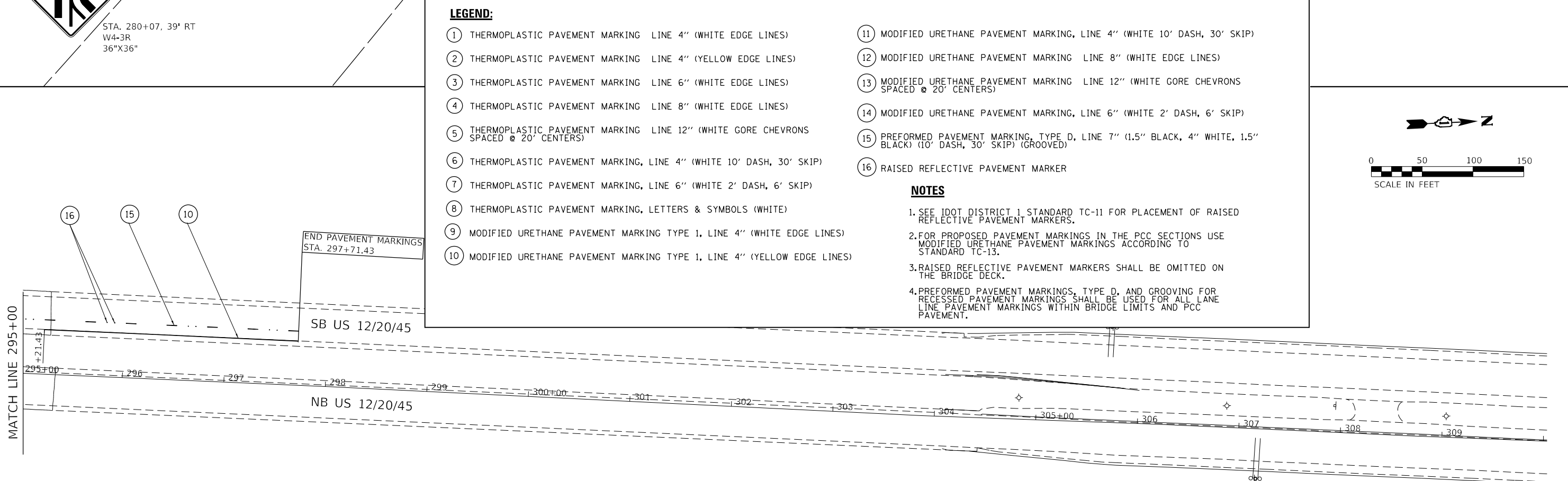
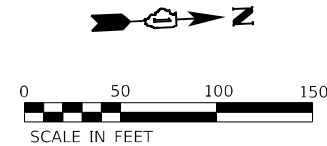
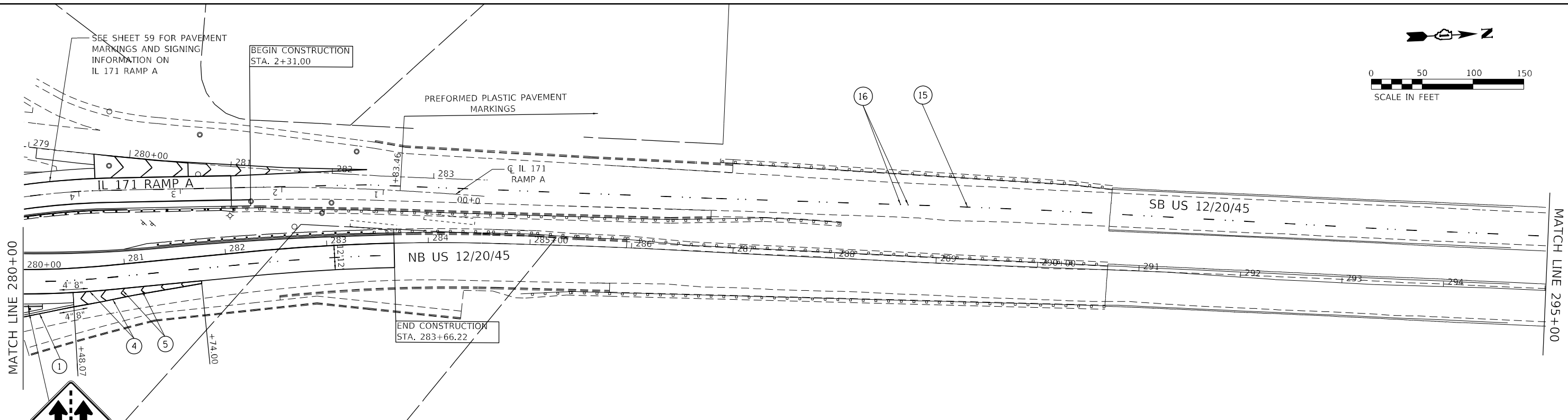
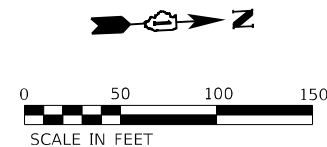
NOTES

- SEE IDOT DISTRICT 1 STANDARD TC-11 FOR PLACEMENT OF RAISED REFLECTIVE PAVEMENT MARKERS.
- FOR PROPOSED PAVEMENT MARKINGS IN THE PCC SECTIONS USE MODIFIED URETHANE PAVEMENT MARKINGS ACCORDING TO STANDARD TC-13.
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE OMITTED ON THE BRIDGE DECK.
- PREFORMED PAVEMENT MARKINGS, TYPE D, AND GROOVING FOR RECESSED PAVEMENT MARKINGS SHALL BE USED FOR ALL LANE LINE PAVEMENT MARKINGS WITHIN BRIDGE LIMITS AND PCC PAVEMENT.



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	USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 016-2757 IL 171 OVER US 45 SIGNING & PAVEMENT MARKING PLAN	F.A.P. RTE. = 330	SECTION = 2019-187-B	COUNTY = COOK	TOTAL SHEETS = 153	SHEET NO. = 59
	PLOT SCALE = 100,0000' / in.	CHECKED - AMB	REVISED -			SCALE: SHEET 2 OF 3 SHEETS	STA. TO STA.	CONTRACT NO. 62K60		
	PLOT DATE = 10/18/2023	DATE = 10/18/2023	REVISED -			ILLINOIS FED. AID PROJECT				



LEGEND:

- ① THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE EDGE LINES)
- ② THERMOPLASTIC PAVEMENT MARKING LINE 4" (YELLOW EDGE LINES)
- ③ THERMOPLASTIC PAVEMENT MARKING LINE 6" (WHITE EDGE LINES)
- ④ THERMOPLASTIC PAVEMENT MARKING LINE 8" (WHITE EDGE LINES)
- ⑤ THERMOPLASTIC PAVEMENT MARKING LINE 12" (WHITE GORE CHEVRONS SPACED @ 20' CENTERS)
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- ⑯ RAISED REFLECTIVE PAVEMENT MARKER

NOTES

1. SEE IDOT DISTRICT 1 STANDARD TC-11 FOR PLACEMENT OF RAISED REFLECTIVE PAVEMENT MARKERS.
2. FOR PROPOSED PAVEMENT MARKINGS IN THE PCC SECTIONS USE MODIFIED URETHANE PAVEMENT MARKINGS ACCORDING TO STANDARD TC-13.
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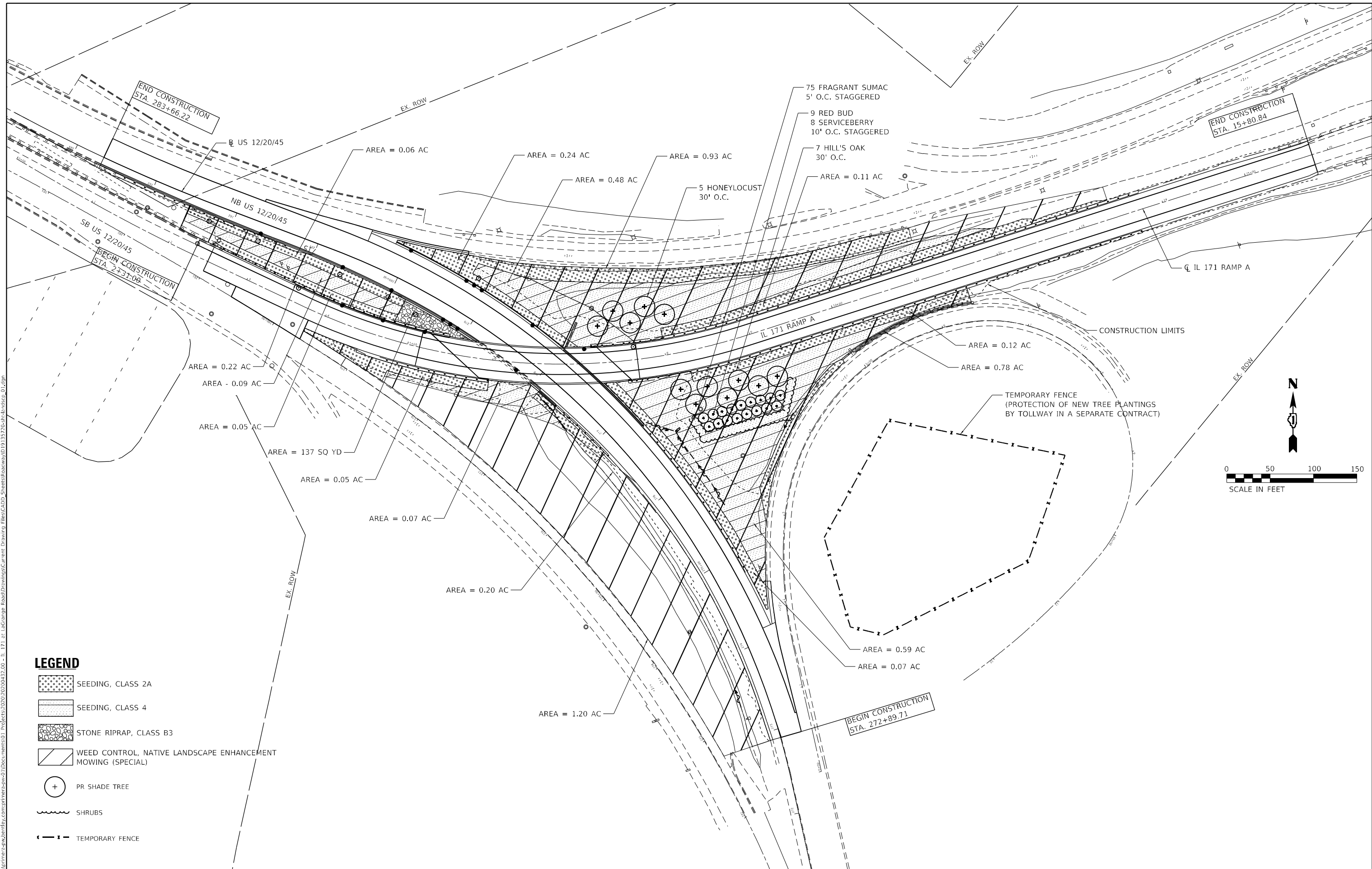
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PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 016-2757 IL 171 OVER US 45 SIGNING & PAVEMENT MARKING PLAN			
SCALE:	SHEET 3	OF 3	SHEETS
STA.	TO STA.		

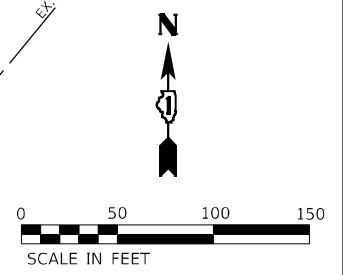
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	60
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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LEGEND

- SEEDING, CLASS 2A
- SEEDING, CLASS 4
- STONE RIPRAP, CLASS B3
- WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT MOWING (SPECIAL)
- PR SHADE TREE
- SHRUBS
- TEMPORARY FENCE



USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
	DRAWN - MAC	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - AMB	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

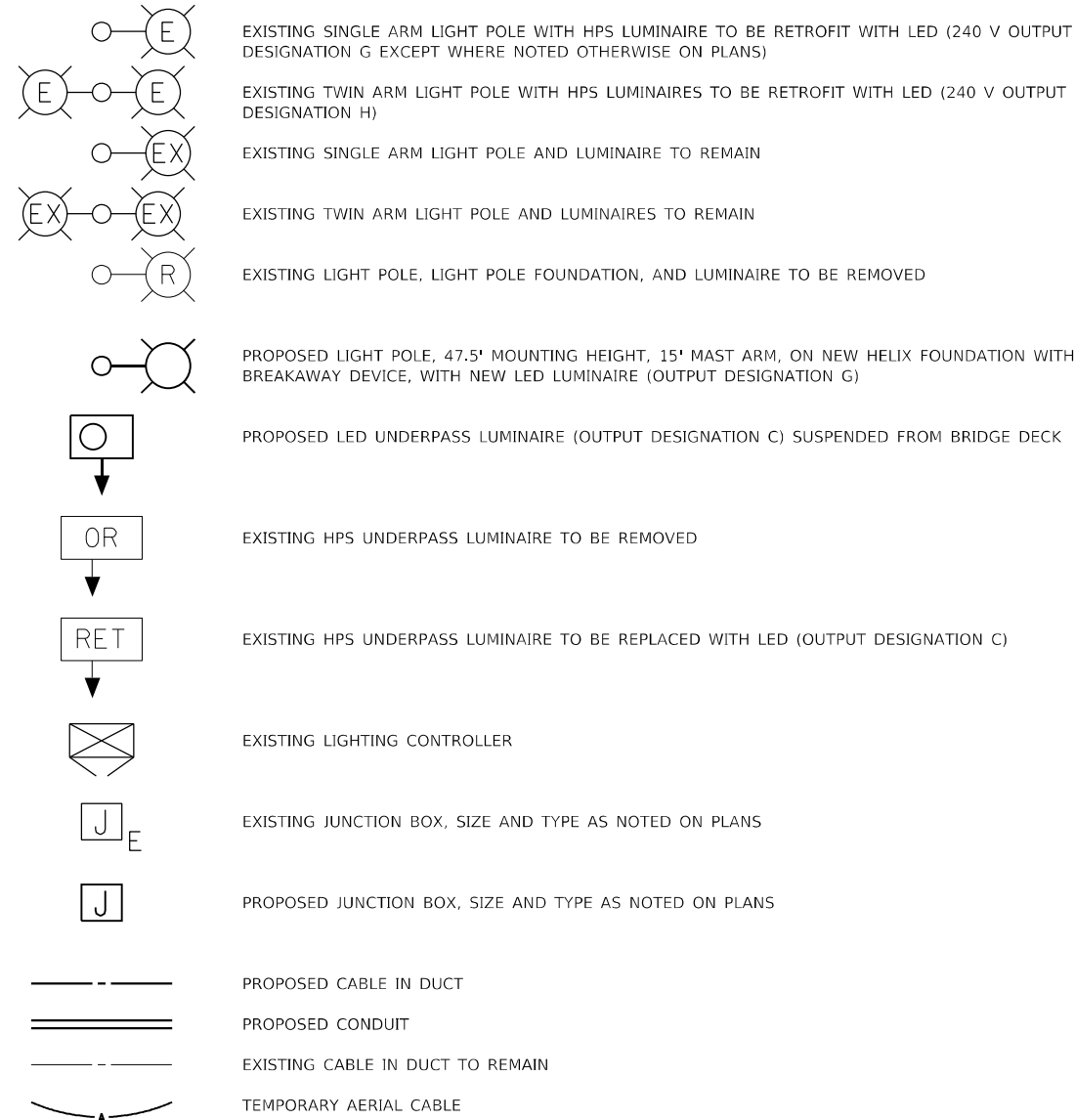
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 016-2757 IL 171 OVER US 45
LANDSCAPE PLAN**

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

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 61
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K60	

LIGHTING LEGEND



CABLE & CONDUIT TAGS

- ① UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. (81028220)
- ② CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL (81100320)
- ③ CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC (81200230)
- A UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE (81603090)
- B ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10, 1/C NO. 10 GROUND (81702110)
- C ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 4, 1/C NO. 6 GROUND (81702130, 81702140)
- D AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE (81800300)
- J1 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4" (81300220)
- J2 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6" (81300530)
- J3 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 6" (81300800)
- J4 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8" (81300830)

INDEX OF SHEETS

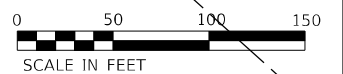
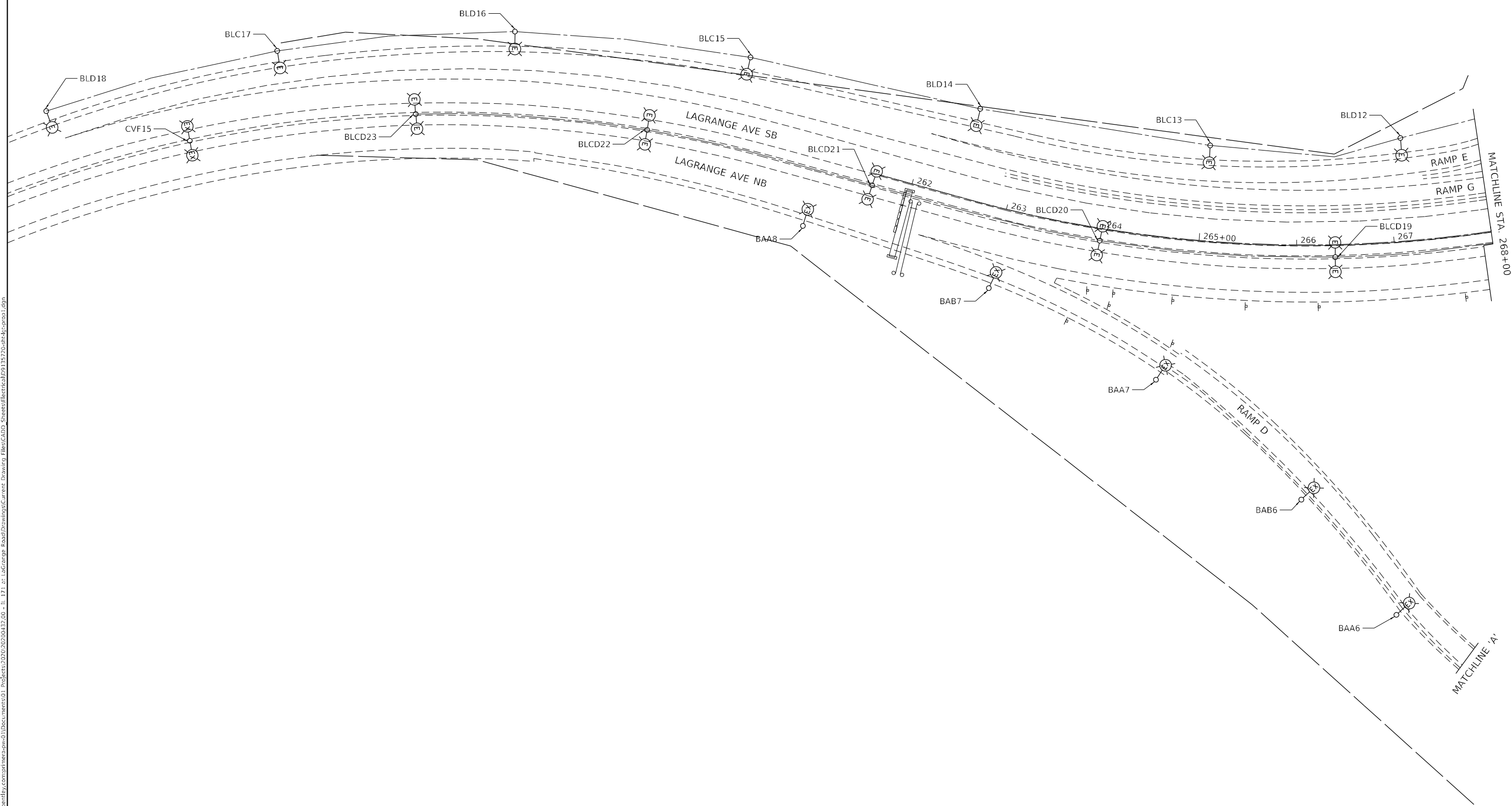
61	LIGHTING LEGEND, NOTES, AND CABLE/CONDUIT TAGS
62-67	LIGHTING RETROFIT PLAN
68	UNDERPASS LIGHTING PLAN - LAGRANGE RD UNDER ARCHER AVE
69	UNDERPASS LIGHTING PLAN - LAGRANGE RD UNDER RAMP A
70-71	SINGLE LINE WIRING DIAGRAM
72-76	LIGHTING DETAILS

ELECTRICAL GENERAL NOTES

1. ALL LUMINAIRES SHALL BE 240 VOLTS.
2. CONDUCTOR SPLICES SHALL BE IN POLE BASES OR JUNCTION BOXES. SPLICES BELOW GRADE WILL NOT BE PERMITTED.
3. LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC, AND LOCAL CODES.
4. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE UL LISTED AND LABELED.
5. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING ELECTRIC CABLE TO AVOID CONFLICT WITH EXISTING UNDERGROUND UTILITIES, TREES, AND ROOTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.
6. EXISTING LUMINAIRE SAFETY CABLES, WHERE PRESENT, SHALL BE REINSTALLED ON RETROFIT LED LUMINAIRES.

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	GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 206 CHICAGO, ILLINOIS 60630 TEL: 773-774-590	USER NAME = Michael.Czerpak DESIGNED - BMR DRAWN - BMR CHECKED - DATE - 10/18/2023	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING NOTES AND LEGEND		F.A.P. RTE. 330 SECTION 2019-187-B COUNTY COOK ILLINOIS FED. AID PROJECT	TOTAL SHEETS 153 SHEET NO. 62 CONTRACT NO. 62K60
	PLOT SCALE = 40,0000 * / in. PLOT DATE = 10/18/2023		SCALE: N.A. SHEET OF SHEETS STA. TO STA.					



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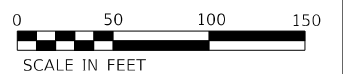
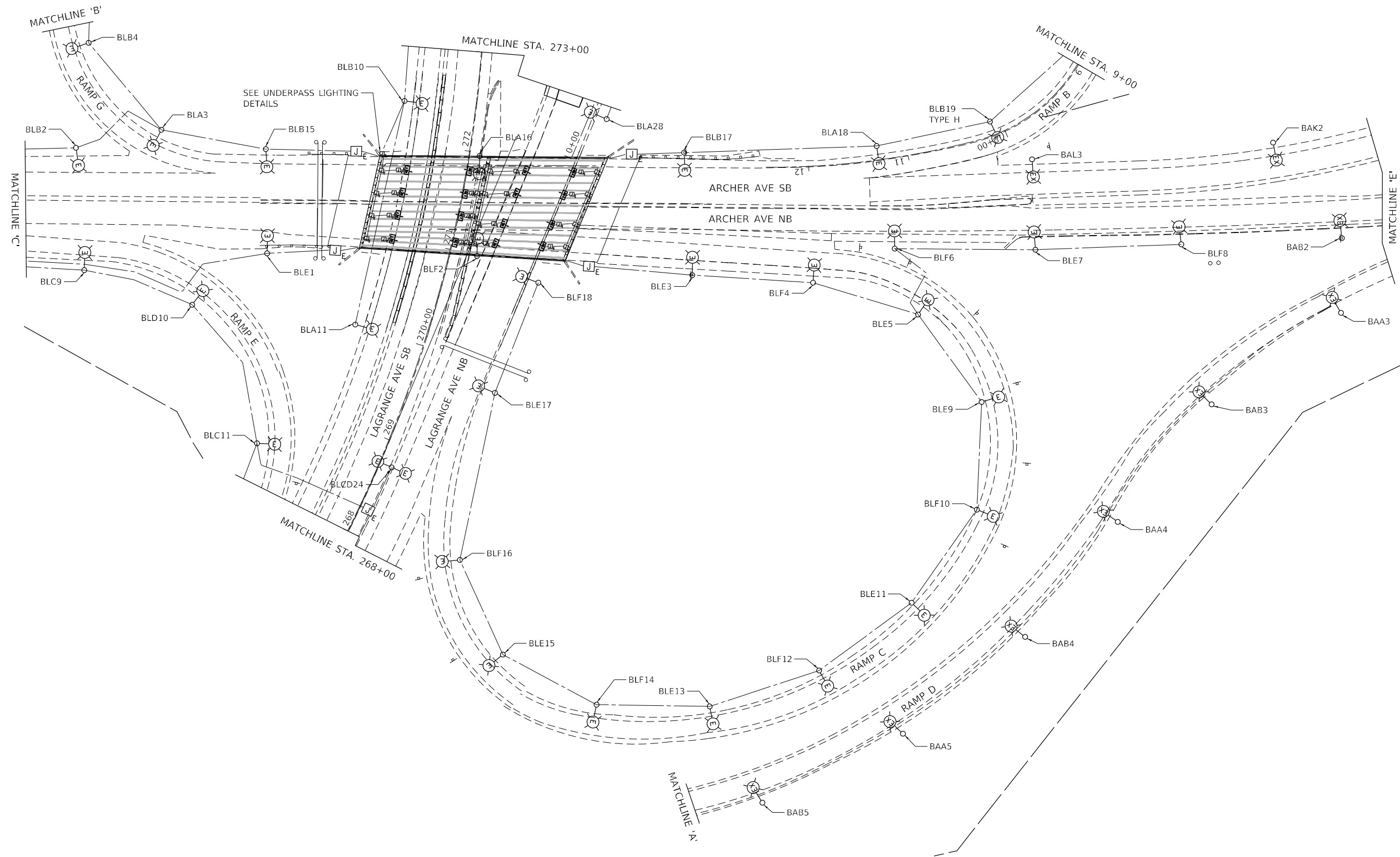
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DRAWN - BMR	REVISED -	
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PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING RETROFIT PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	63
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



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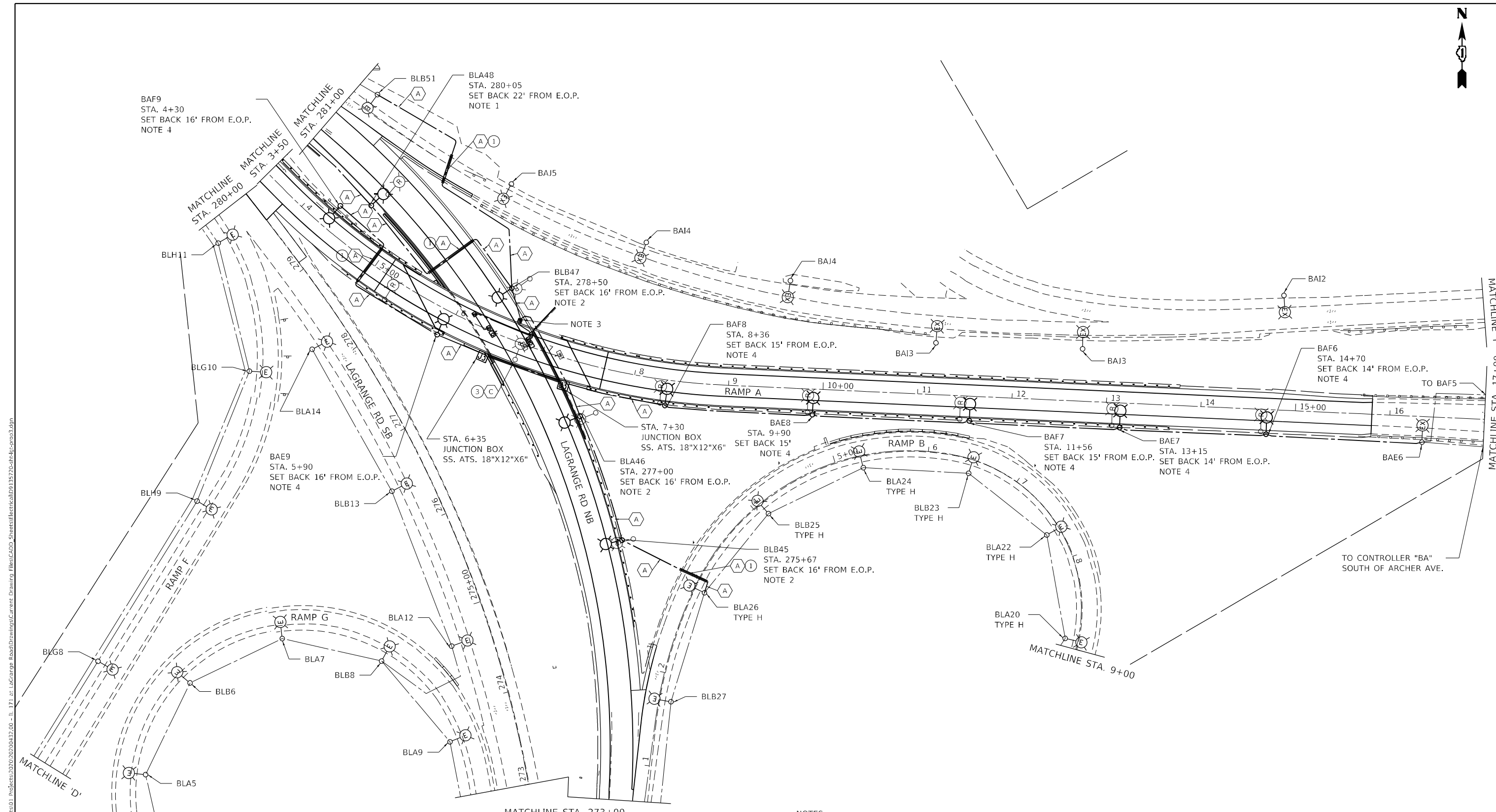
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DRAWN - BMR	REVISED -	
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PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING RETROFIT PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	64
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



NOTES:

1. INSTALL PROPOSED POLE PRIOR TO BEGINNING ROAD WORK. POWER TEMPORARILY VIA AERIAL CABLE FROM BLG12 TO BLA50 UNTIL PERMANENT WIRING FROM RELOCATED BLB47 CAN BE INSTALLED.
2. KEEP EXISTING POLE IN PLACE AND OPERATIONAL UNTIL ROADWAY REALIGNMENT HAS PROGRESSED TO ALLOW INSTALLATION OF NEW FOUNDATIONS.
3. INSTALL TWO 3" PVC COATED GALVANIZED STEEL CONDUIT RISERS TO PROPOSED 18"X18"X8" STAINLESS STEEL A.T.S. JUNCTION BOX. SEE UNDERPASS WIRING DETAILS.
4. INSTALL LED LUMINAIRE SALVAGED FROM REMOVAL OF EXISTING LIGHT POLE.



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USER NAME = Michael.Czerpak	DESIGNED - BMR	REVISED -
	DRAWN - BMR	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

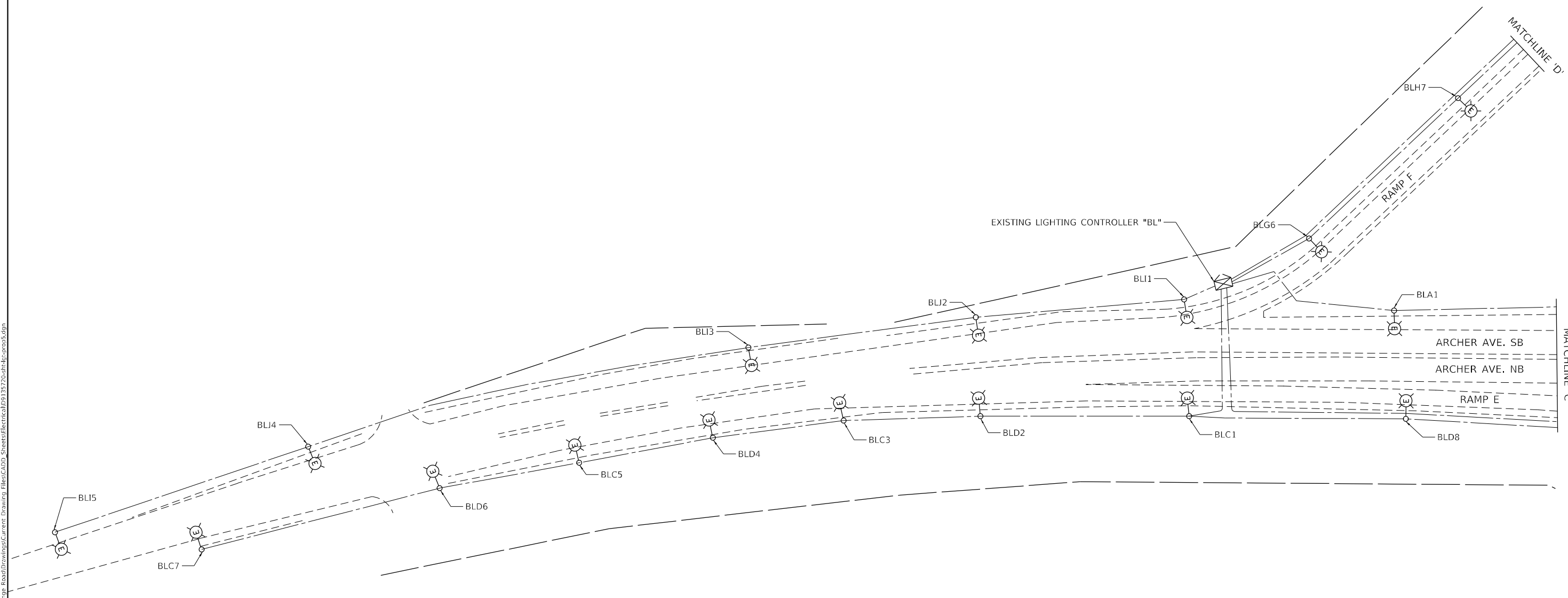
LIGHTING RETROFIT PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	65
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



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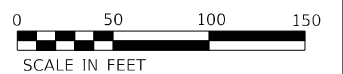
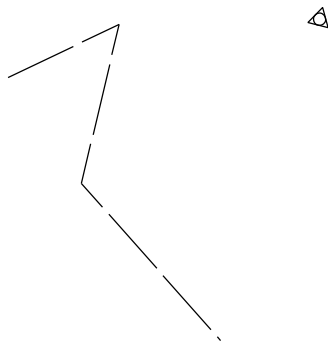
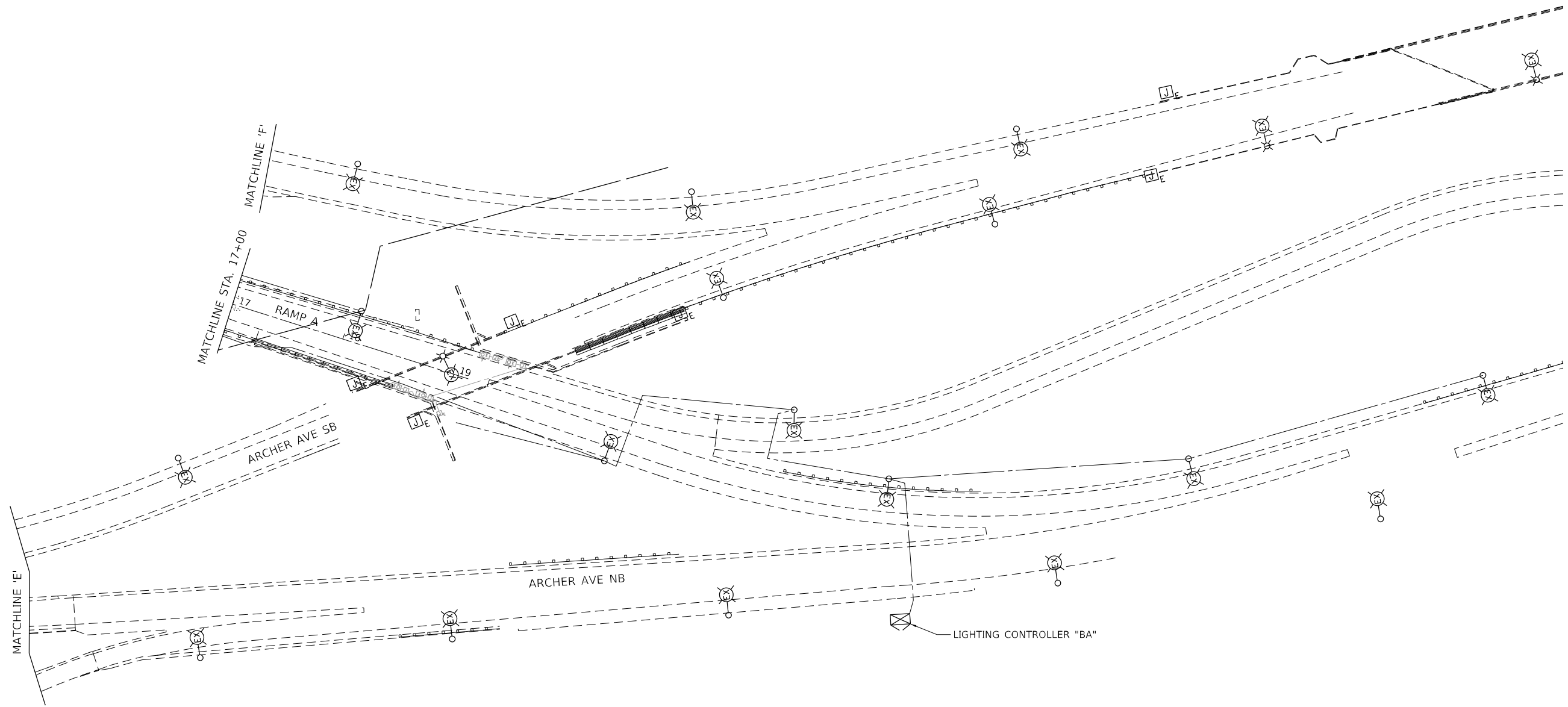

GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 208
 CHICAGO, ILLINOIS 60630 TEL: 773.774.590

USER NAME = Michael.Czerpak	DESIGNED - BMR	REVISED -
DRAWN - BMR	REVISIONS	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	67
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



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 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

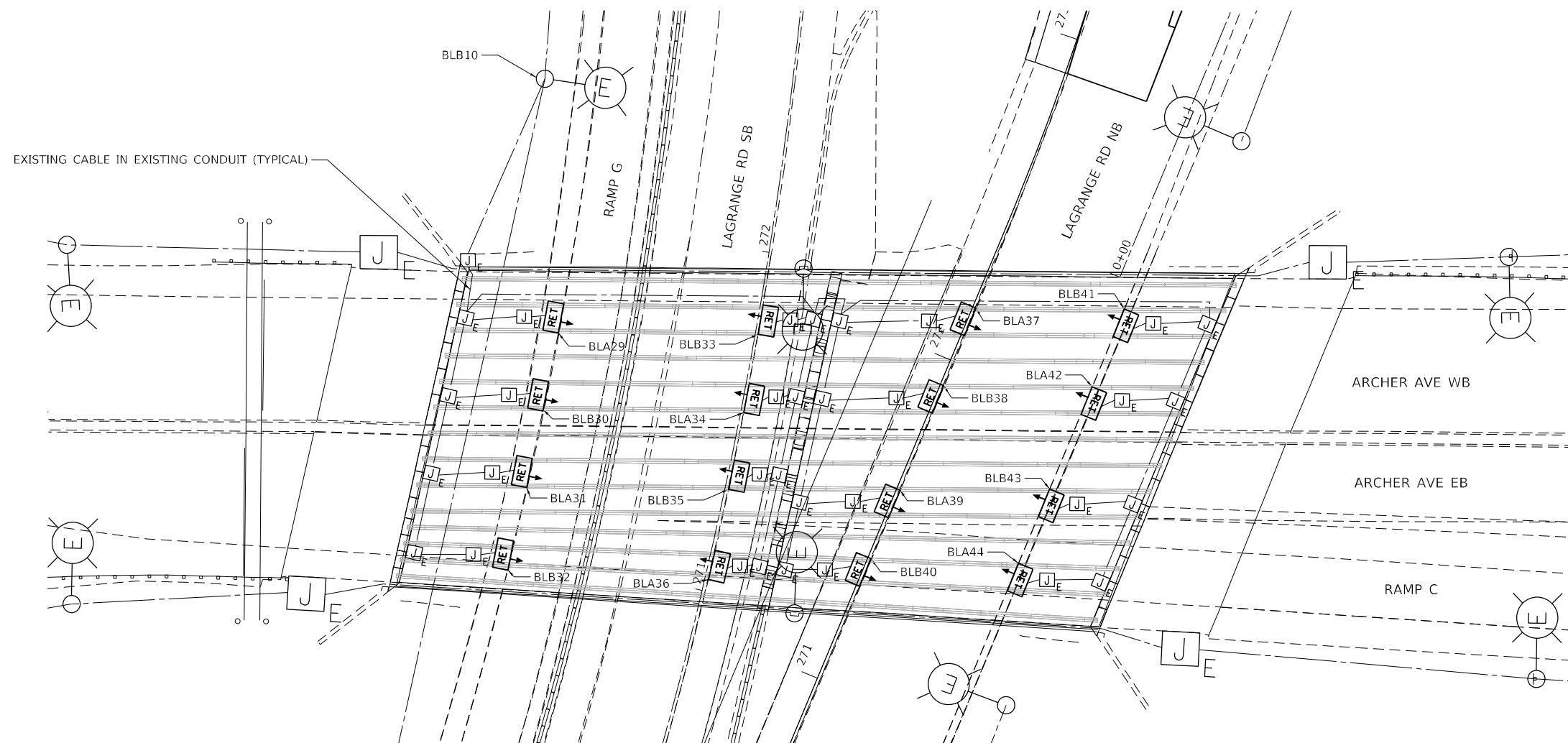
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PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING RETROFIT PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	68
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



EXISTING CABLE IN EXISTING CONDUIT (TYPICAL)

NOTES:

1. SET BACK LUMINAIRES 6 FEET BEHIND EDGE OF TRAVELED PAVEMENT.



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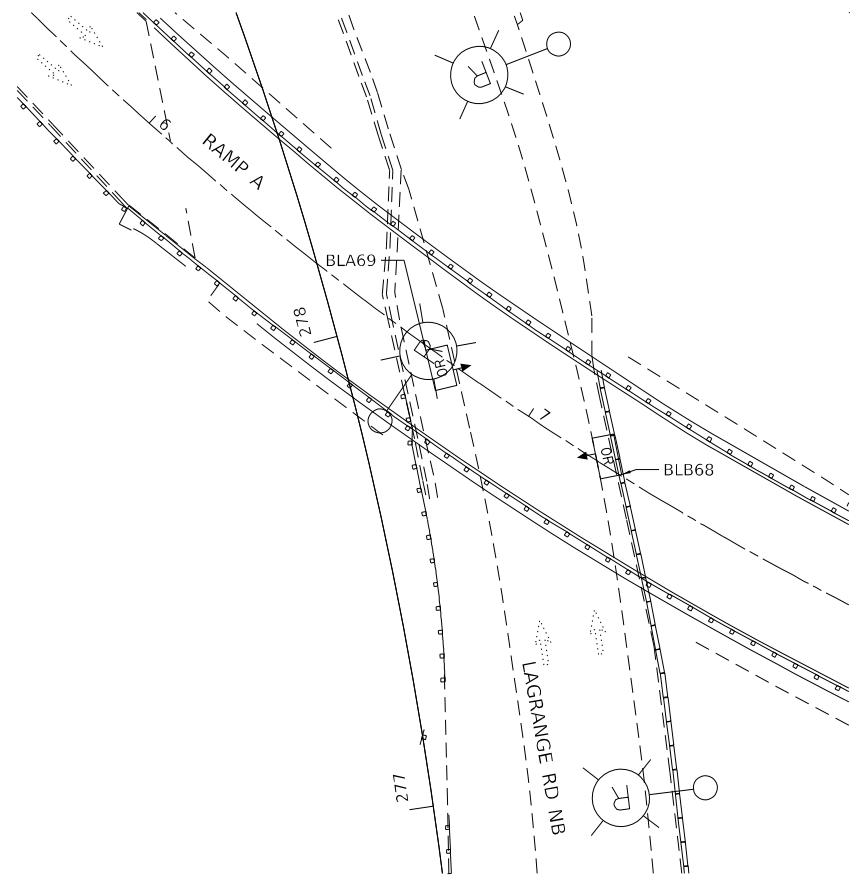
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PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

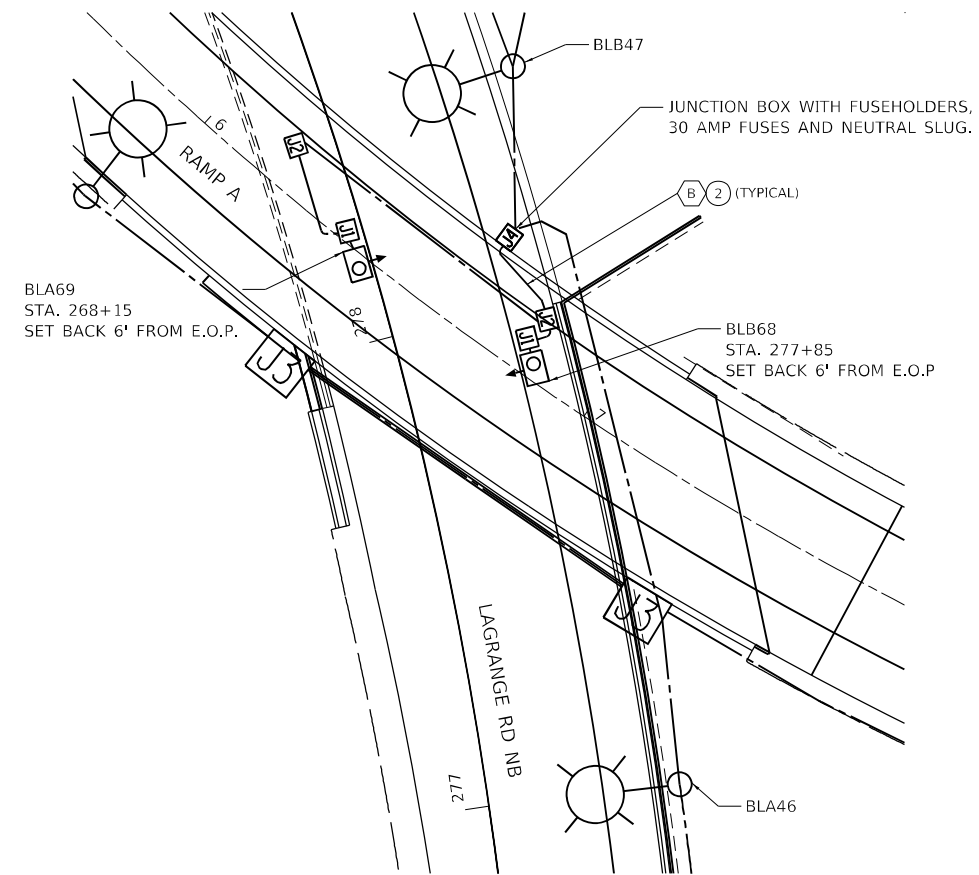
**UNDERPASS LIGHTING PLAN
ARCHER AVE OVER LAGRANGE RD**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	69
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				




UNDERPASS LIGHTING REMOVAL



PROPOSED UNDERPASS LIGHTING



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 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = Michael.Czerpak	DESIGNED - BMR	REVISED -
DRAWN - BMR	REVISIONS -	
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PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UNDERPASS LIGHTING PLAN
RAMP A OVER LAGRANGE RD

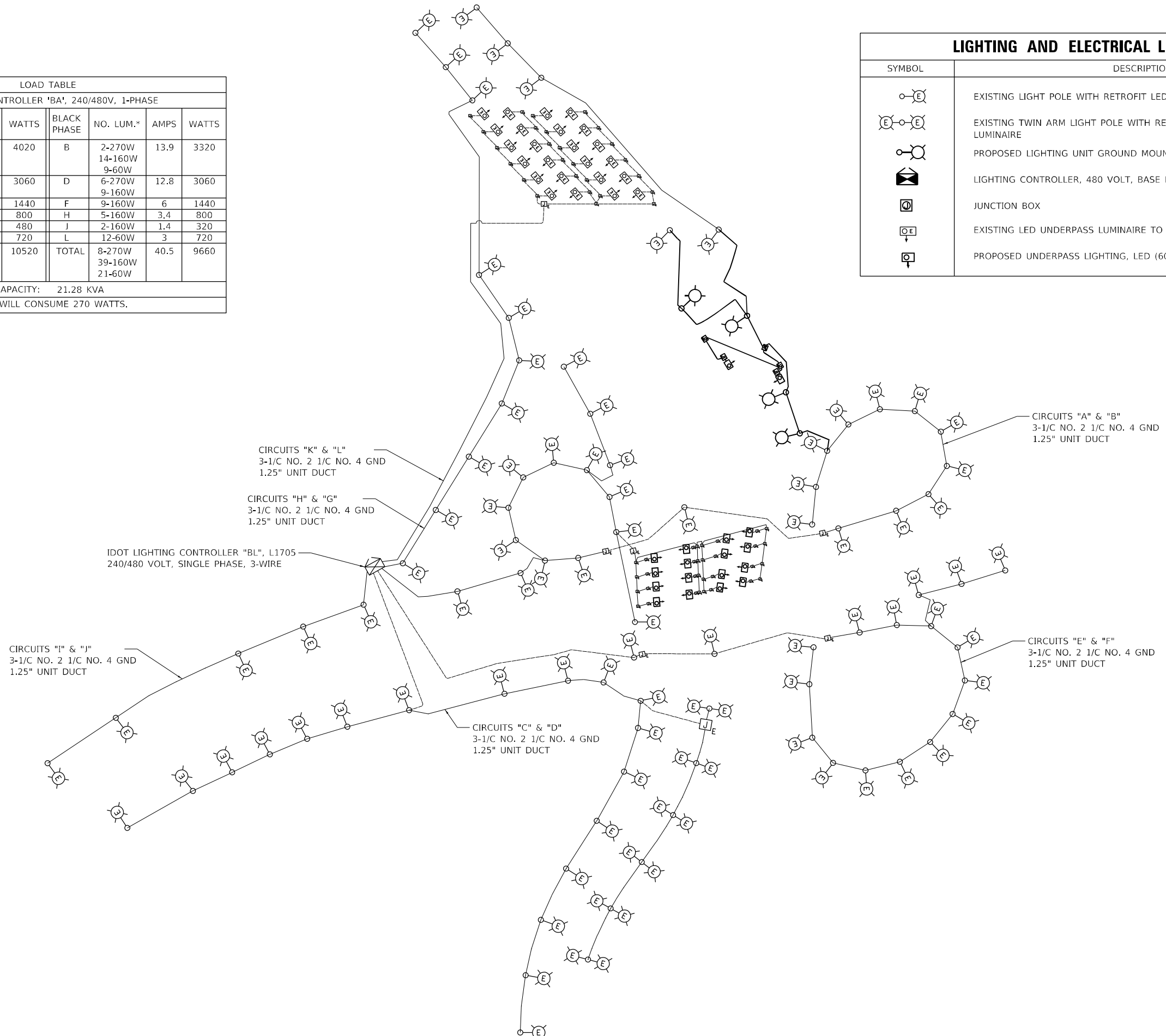
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	70
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



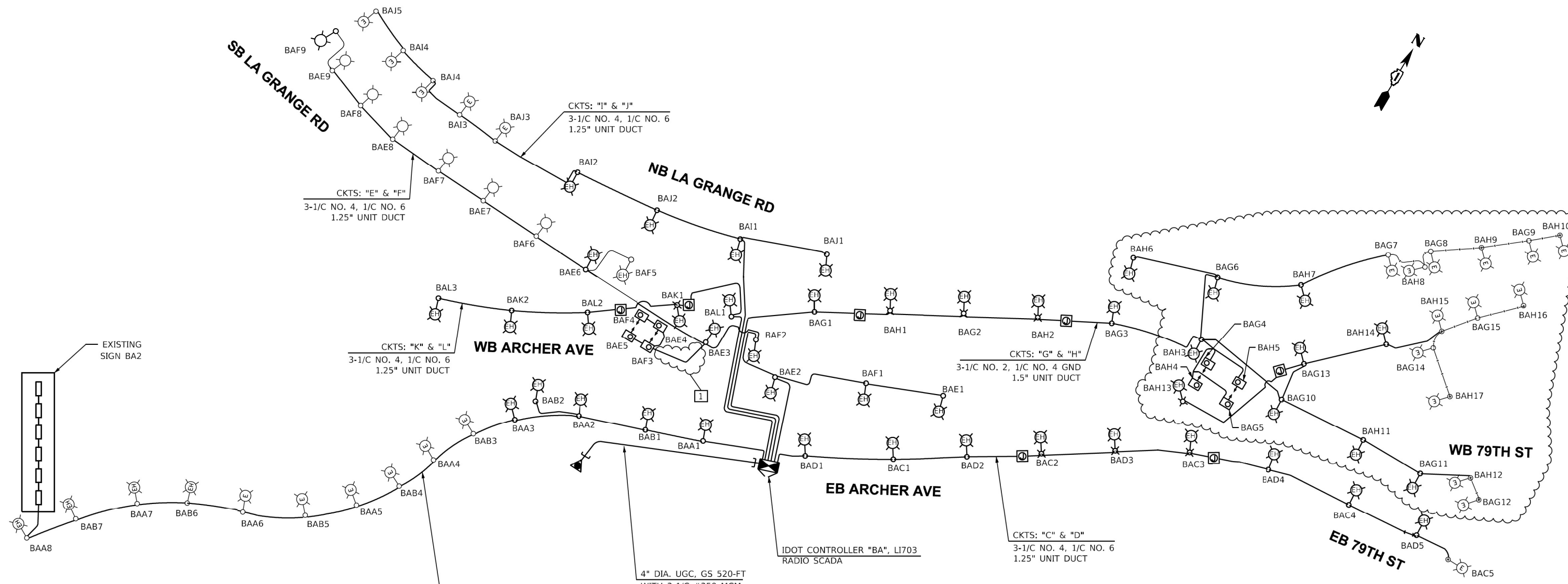
LOAD TABLE							
LIGHTING CONTROLLER 'BA', 240/480V, 1-PHASE							
RED PHASE	NO. LUM. *	AMPS	WATTS	BLACK PHASE	NO. LUM.*	AMPS	WATTS
A	4-270W 15-160W 9-60W	16.8	4020	B	2-270W 14-160W 9-60W	13.9	3320
C	6-270W 9-160W	12.8	3060	D	6-270W 9-160W	12.8	3060
E	9-160W	6	1440	F	9-160W	6	1440
G	5-160W	3.4	800	H	5-160W	3.4	800
I	3-160W	2	480	J	2-160W	1.4	320
K	12-60W	3	720	L	12-60W	3	720
TOTAL	10-270W 41-160W 21-60W	44	10520	TOTAL	8-270W 39-160W 21-60W	40.5	9660
TOTAL CONNECTED LOAD CAPACITY: 21.28 KVA							
*ASSUMED LED LUMINAIRE WILL CONSUME 270 WATTS.							

LIGHTING AND ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING LIGHT POLE WITH RETROFIT LED LUMINAIRE
	EXISTING TWIN ARM LIGHT POLE WITH RETROFIT LED LUMINAIRE
	PROPOSED LIGHTING UNIT GROUND MOUNTED (270W), LED H
	LIGHTING CONTROLLER, 480 VOLT, BASE MOUNTED
	JUNCTION BOX
	EXISTING LED UNDERPASS LUMINAIRE TO REMAIN
	PROPOSED UNDERPASS LIGHTING, LED (60W)



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	USER NAME = Michael.Czerpak	DESIGNED - BMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SINGLE LINE WIRING DIAGRAM CONTROLLER "BL"			F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 71	
	PLOT SCALE = 2,0000' / in.	CHECKED -	REVISED -					CONTRACT NO. 62K60					
	PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -					ILLINOIS FED. AID PROJECT					
				SCALE: N.A.	SHEET	OF	SHEETS	STA.	TO	STA.			



LOAD TABLE							
LIGHTING CONTROLLER 'BA', 240/480V, 1-Φ, 3-WIRE							
RED PHASE	NO. LU M. *	AMPS	WATTS	BLACK PHASE	NO. LUM. *	AMPS	WATTS
A	5-270W 3-160W 3-140W	9.38	2250.0	B	4-270W 3-160W 3-140W	8.25	1980.0
C	4-270W 1-160W	5.17	1240.0	D	5-270W	5.63	1350.0
E	4-270W 3-160W 2-105W	7.38	1770.0	F	3-270W 4-160W 2-105W	6.92	1660.0
G	7-270W 6-160W 2-105W	12.75	3060.0	H	8-270W 7-160W 2-105W	14.54	3490.0
I	2-270W 2-160W	3.58	860.0	J	2-270W 3-160W	4.25	1020.0
K	2-270W	2.25	540.0	L	3-270W	3.38	810.0
TOTAL		40.5	9720.0	TOTAL		43.0	10310.0
TOTAL CONNECTED LOAD CAPACITY:		20.03 KVA					
LED G=160W, LED H=270W, UNDERPASS=105W, EXIST SIGN LT=140W							

LIGHTING AND ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING LIGHTING UNIT (160W), LED-G
	EXISTING LIGHTING UNIT (270W), LED-H
	PROPOSED IDOT LIGHTING UNIT GROUND MOUNTED (270W), LED H
	EXISTING IDOT LIGHTING UNIT WALL MOUNTED (270W), LED-H
	LIGHTING CONTROLLER, 480 VOLT, BASE MOUNTED
	JUNCTION BOX
	EXISTING ELECTRIC UTILITY SERVICE
	EXISTING SIGN LUMINAIRE (140W)
	EXISTING UNDERPASS LIGHTING, LED (105W)

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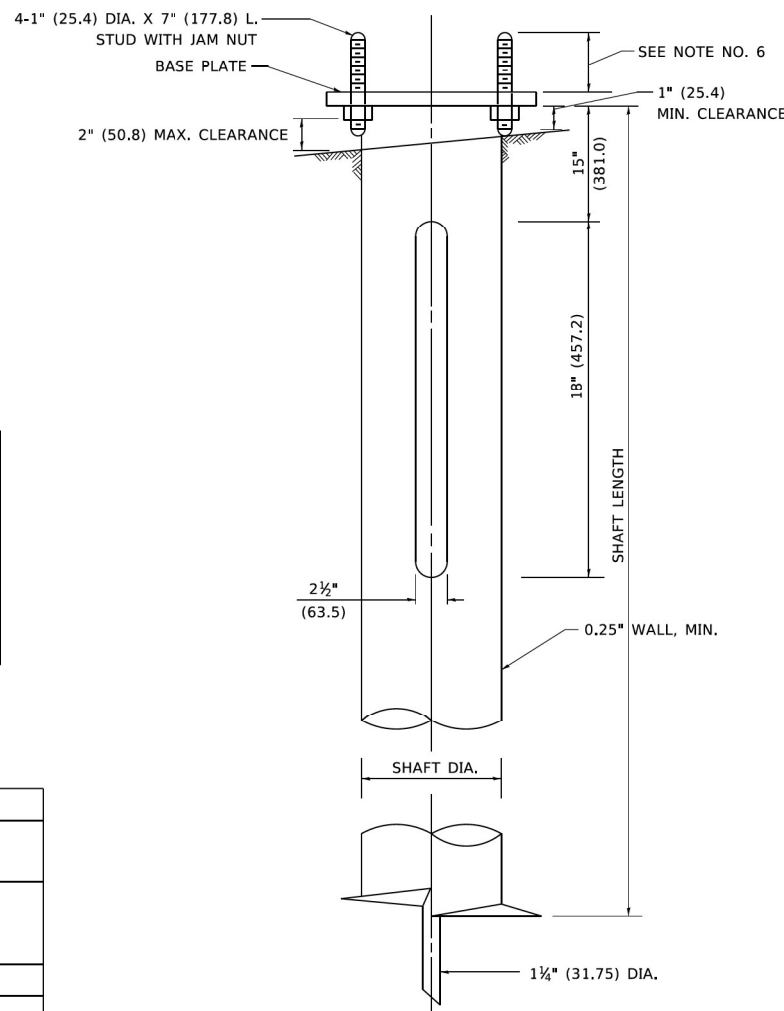
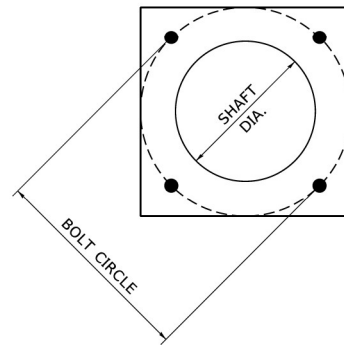
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	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SINGLE LINE WIRING DIAGRAM
CONTROLLER "BA"

SCALE: N.A. SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 72
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



NOTES

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

HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11 1/2"	8 3/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11 1/2"	8 3/8"	6 FT.	12"x12"x1"
36 FT.-40FT.	15"	8 3/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 3/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

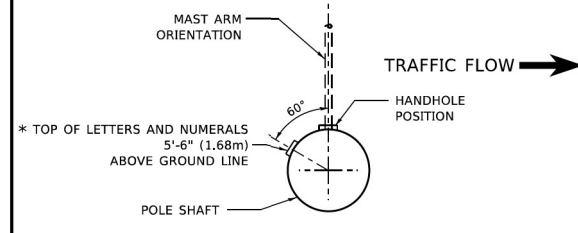
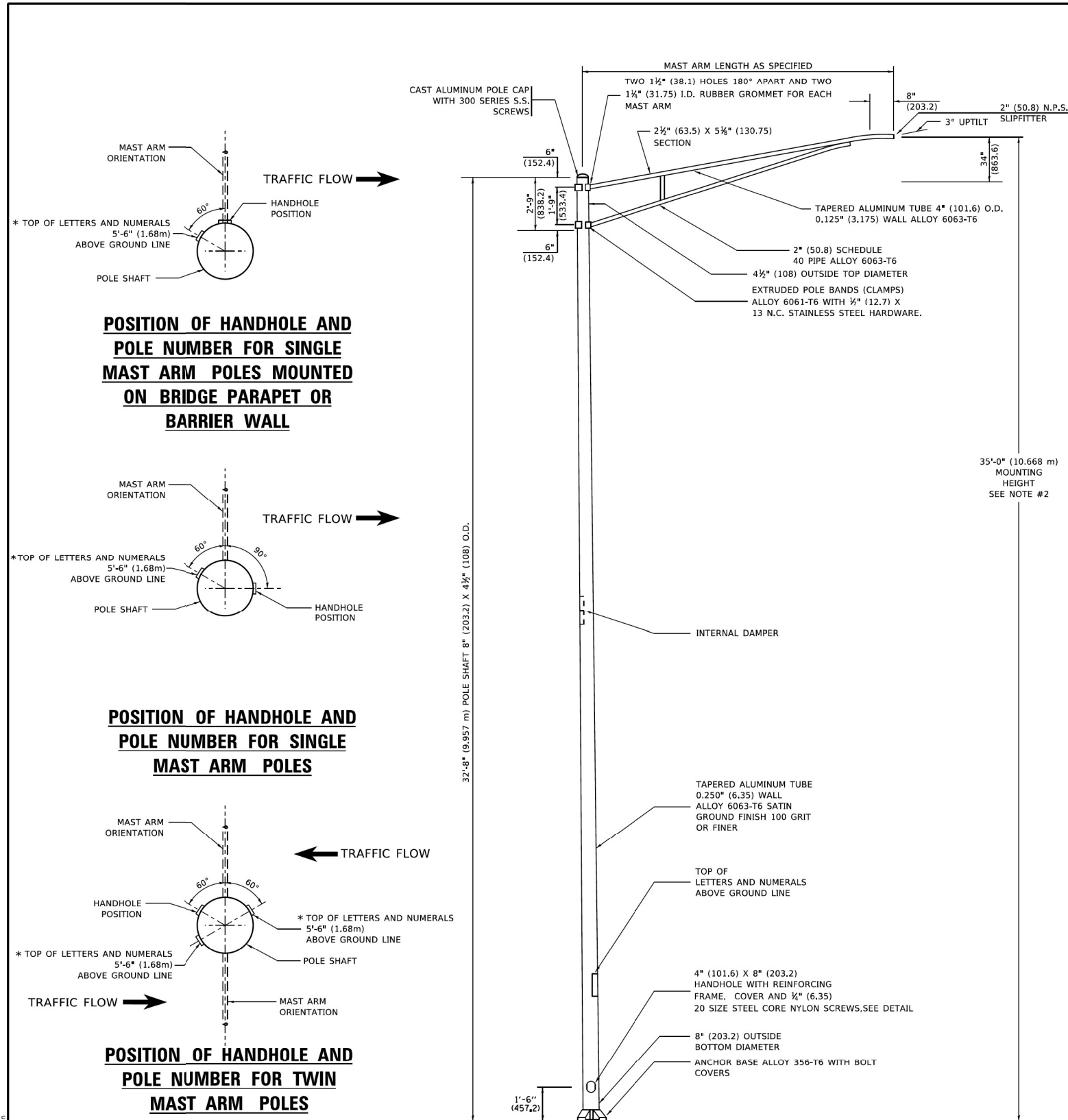
METAL HELIX FOUNDATION MATERIALS

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

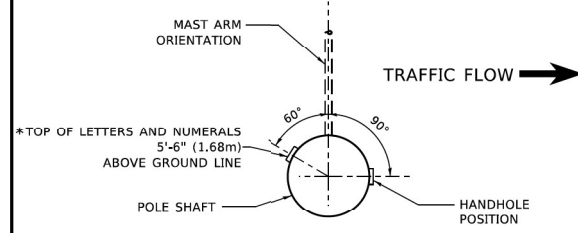
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 USER: Michael.Czerpak

USER NAME = footemj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHT POLE FOUNDATION, METAL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 50.0000' / in.	DRAWN - DLB	REVISED -			BE-305		CONTRACT NO.			
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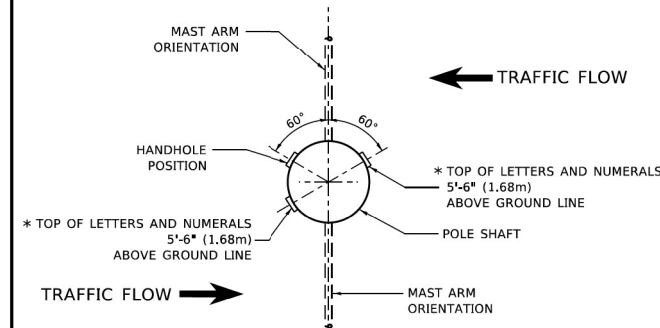
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		DATE - 10/18/2023	REVISED -								



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

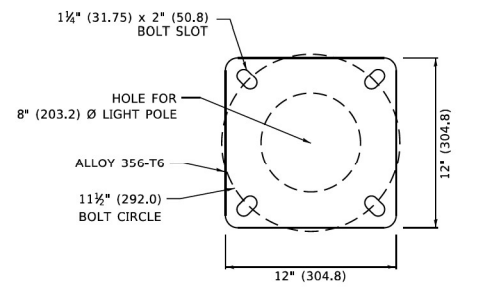


POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



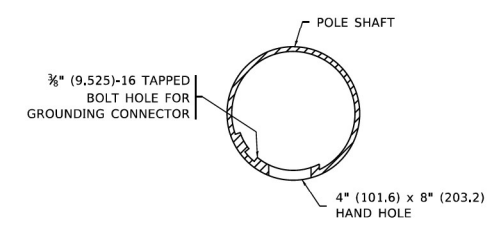
POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

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



LIGHT POLE BASE PLATE DETAIL

11 1/2" (292.0) BOLT CIRCLE



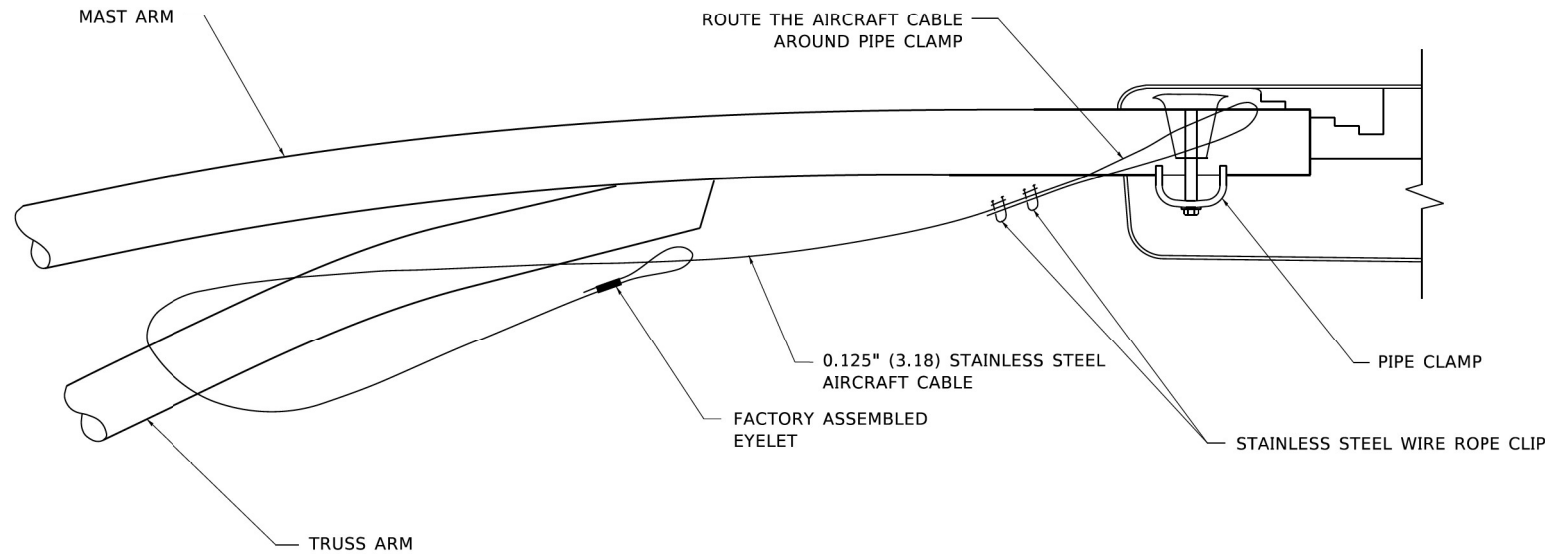
HANDHOLE DETAIL (N.T.S.)

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	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED - R. TOMSONS 09-02-03		SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.	BE-402	CONTRACT NO.
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		DATE -	REVISED - 06/13/2022 TG									

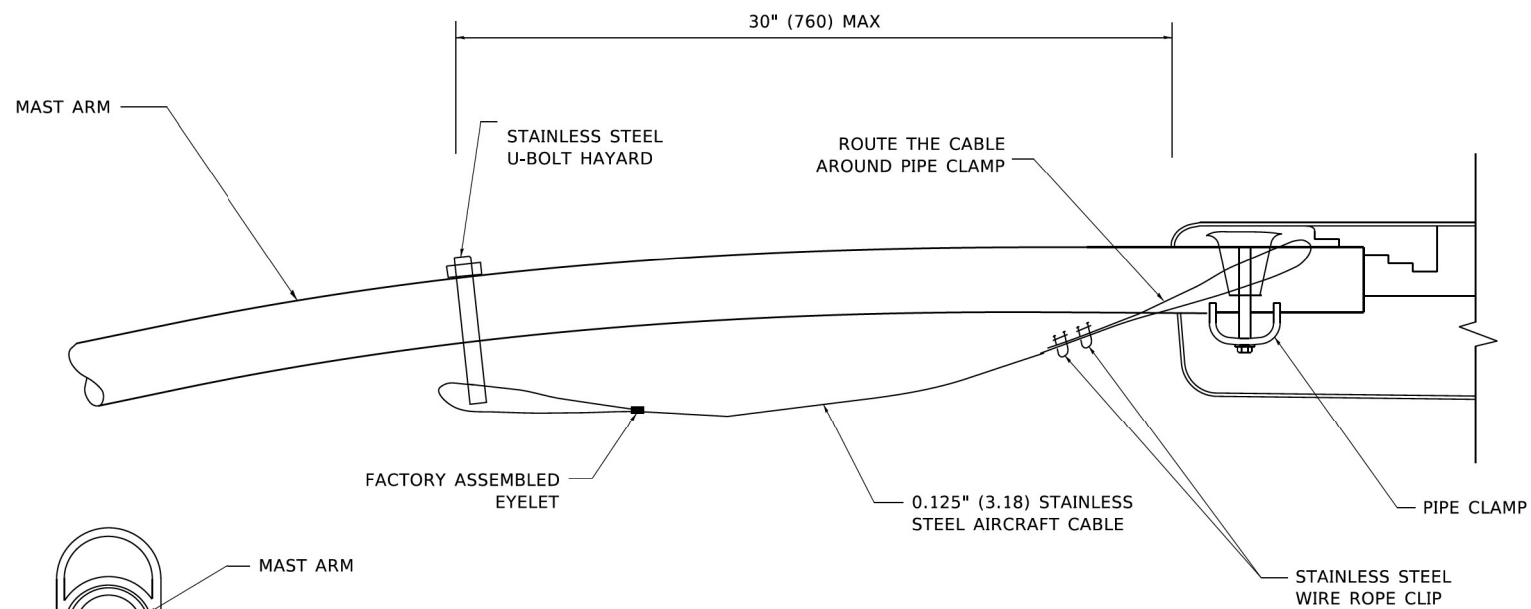
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	PLOT SCALE = 2,000.0 ' / in.	DRAWN - BMR	REVISED -		SCALE: N.A.	SHEET	OF	SHEETS	STA.	TO STA.	330	2019-187-B	COOK	153	74
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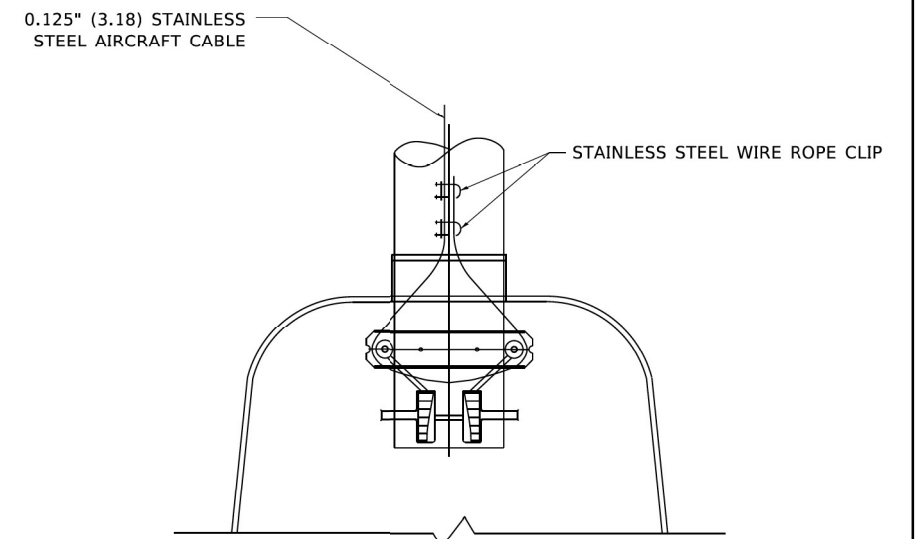
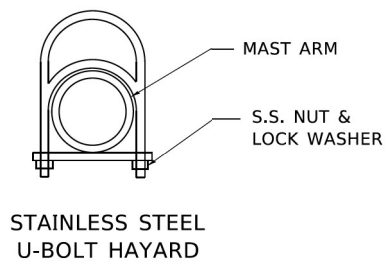




SIDE VIEW (TRUSS ARM)
N.T.S.



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



BOTTOM VIEW
N.T.S.

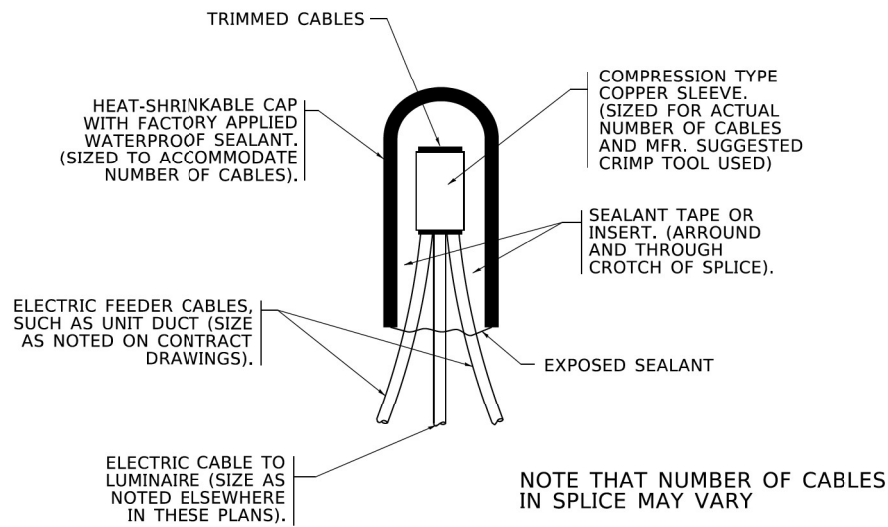
NOTES:

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

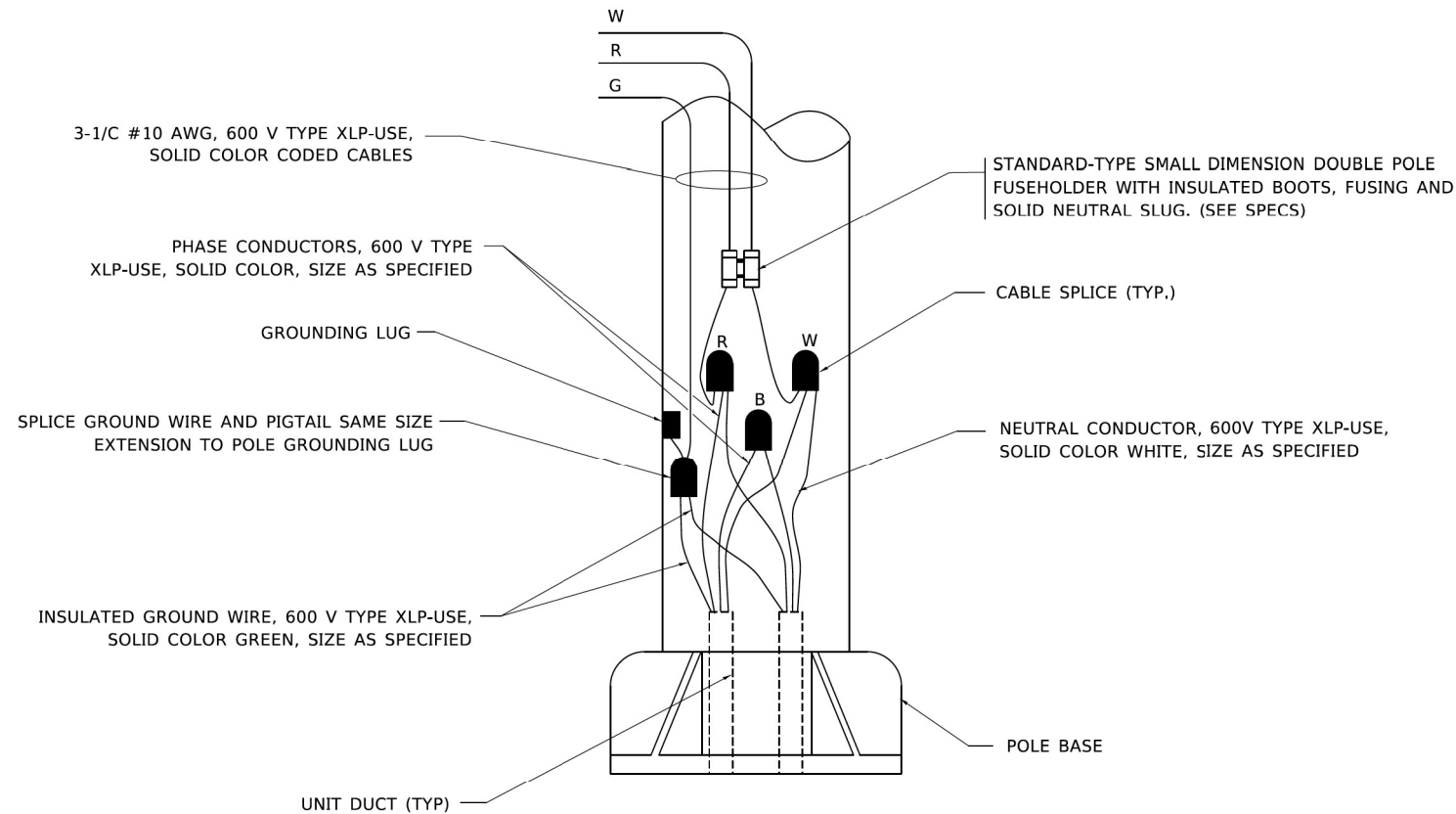
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GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 206 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590	USER NAME = Michael.Czerpak DESIGNED - BMR DRAWN - BMR PLOT SCALE = 2.0000' / in. CHECKED - PLOT DATE = 10/18/2023	DESIGNED - DRAWN - CHECKED - DATE - 10/18/2023	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING DETAILS BE-701 SCALE: N.A. SHEET OF SHEETS STA. TO STA.	F.A.P. RTE. SECTION 330 2019-187-B COUNTY COOK CONTRACT NO. 62K60	TOTAL SHEETS SHEET NO. 153 75
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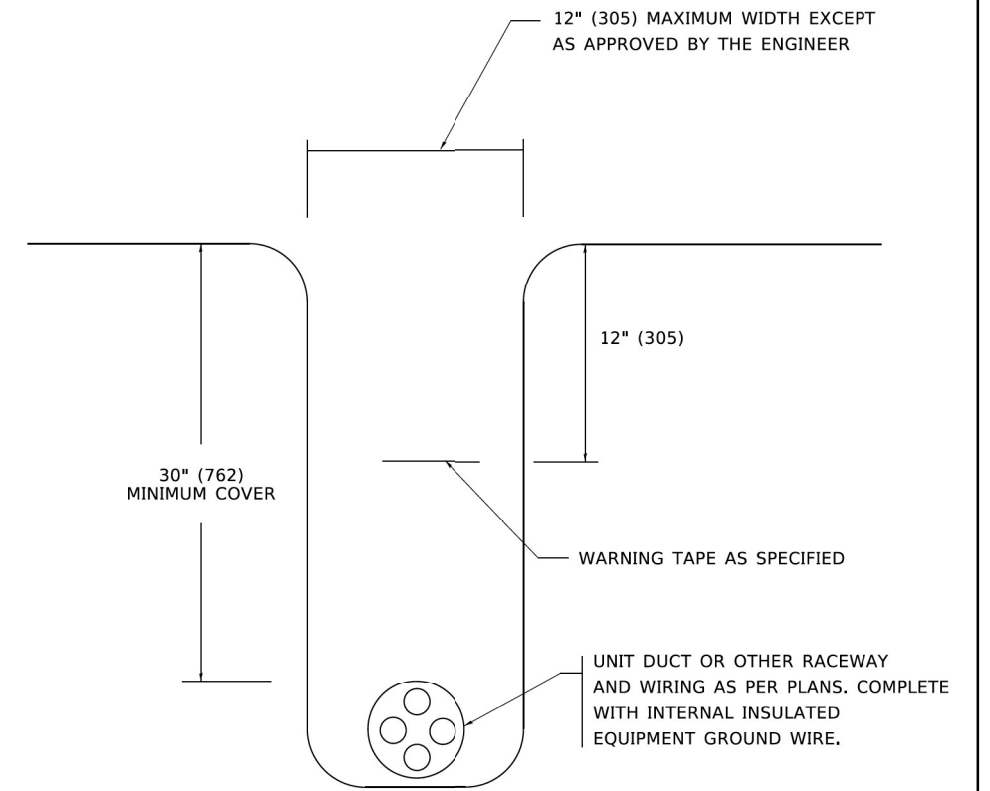
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TYPICAL SPLICE DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.



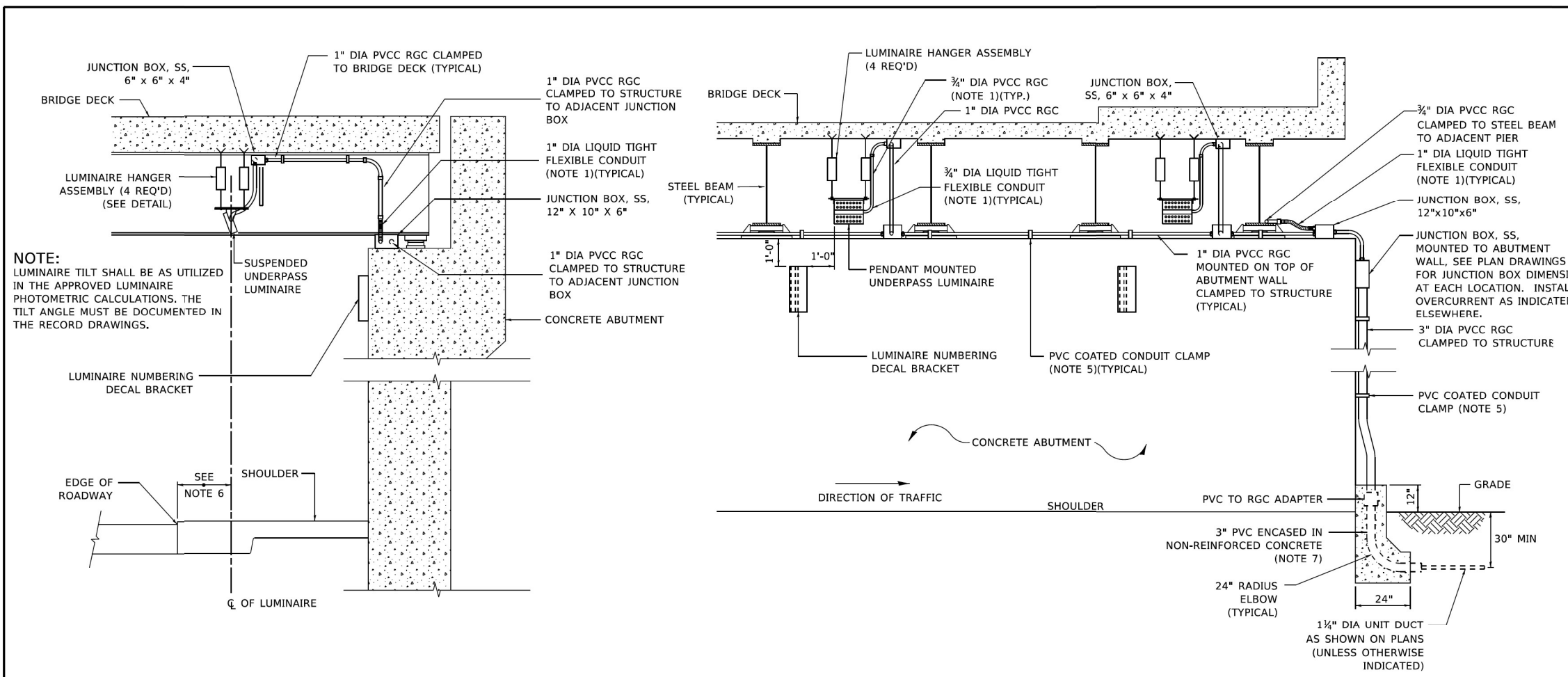
TYPICAL WIRING IN TRENCH DETAIL
N.T.S.

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 USER: Michael.Czerpak

USER NAME = Ieysa	DESIGNED -	REVISED - 02/04/2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISC. ELECTRICAL DETAILS SHEET A		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN -	REVISIONS -			SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	BE-702			
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PLOT DATE = 3/2/2020	DATE - 08/08/2003	REVISED -								

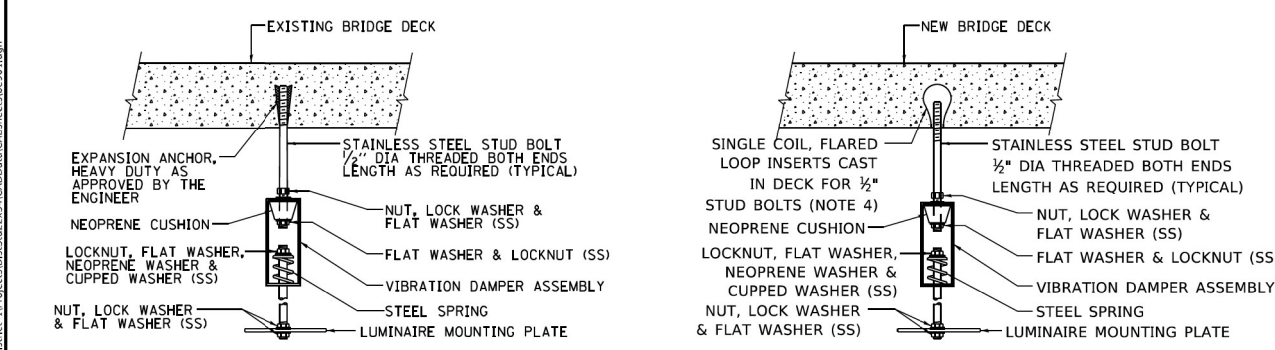
GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 206 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	USER NAME = Michael.Czerpak DESIGNED - BMR DRAWN - BMR CHECKED - DATE - 10/18/2023	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING DETAILS BE-702		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				SCALE: N.A.	SHEET OF SHEETS	STA. TO STA.		2019-187-B	COOK	153

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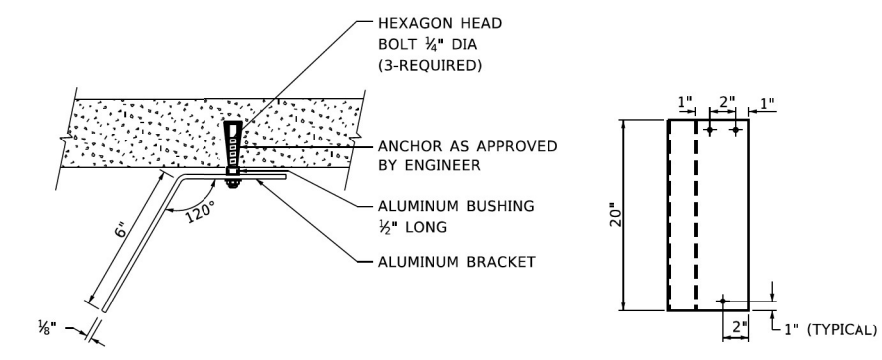
NOTE:
LUMINAIRE TILT SHALL BE AS UTILIZED IN THE APPROVED LUMINAIRE PHOTOMETRIC CALCULATIONS. THE TILT ANGLE MUST BE DOCUMENTED IN THE RECORD DRAWINGS.

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



EXISTING BRIDGE DECK INSTALLATION **NEW BRIDGE DECK INSTALLATION**

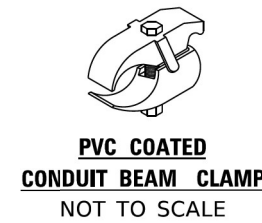
TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS



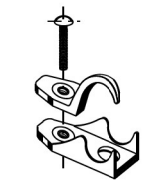
TOP VIEW **ELEVATION**

LUMINAIRE NUMBERING DECAL BRACKET

NOT TO SCALE



PVC COATED CONDUIT BEAM CLAMP
NOT TO SCALE

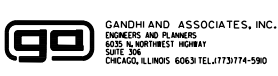


PVC COATED CONDUIT CLAMP
NOT TO SCALE

USER NAME = gagliano	DESIGNED -	REVISED - 12-12-05	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN -	REVISED -	BE-901			CONTRACT NO.				
PLOT SCALE = 100.0000 " / in.	CHECKED -	REVISED -			ILLINOIS	FED. AID PROJECT			
PLOT DATE = 3/15/2020	DATE -	REVISED -							

USER NAME = Michael.Czerpak	DESIGNED - BMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING DETAILS BE-901	F.A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN - BMR	REVISED -	330			2019-187-B	COOK	153	77	
PLOT SCALE = 2.0000 " / in.	CHECKED -	REVISED -			CONTRACT NO. 62K60				
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -			ILLINOIS	FED. AID PROJECT			

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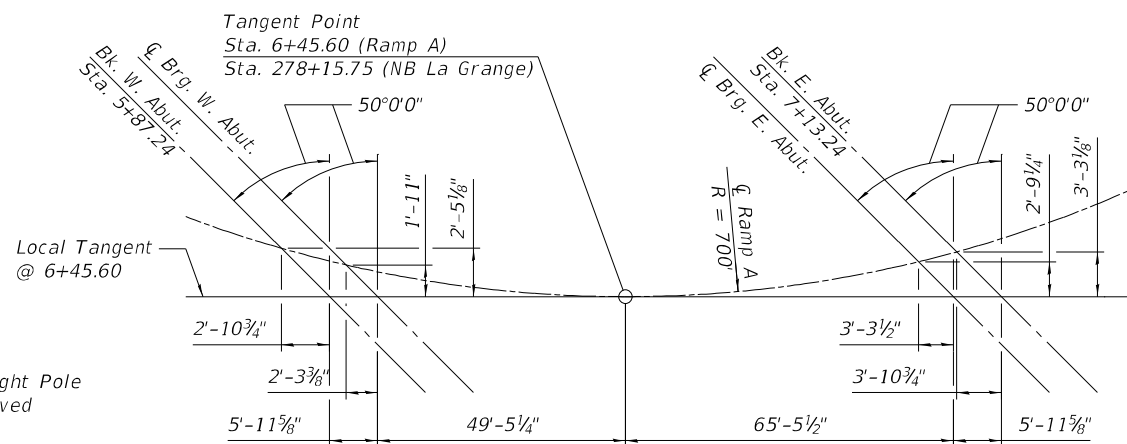


Benchmark: Chiseled \square on the east corner of the headwall on the south side of I-294 and east side of NB US 45 on the ramp.

Existing Structure: S.N. 016-0518 was built in 1959 as F.A.R.T. 5, Section BR-H-6. The superstructure consists of a reinforced concrete deck on three simply supported spans on steel beams. The structure is 179'-8 1/2" long and 36'-4" wide out-to-out on curved alignment having a radius of 700 feet at a 46° 15' 38" skew. The existing substructure is made up of stub abutments and multiple column piers. In 1996, a new bridge rail was added, the existing bearings were replaced with elastomeric bearings, the deck was repaired and overlaid. In 2009, the fascia beam was replaced. Existing structure will be removed and replaced.

Ramp A Traffic will be detoured during construction. NB La Grange Rd will be maintained using stage construction. Bridge Removal will be performed in both stages. The West Abutment and MSE wall will be constructed in Stage I. The remainder of the structure will be constructed in Stage II.

No salvage.



DESIGN STRESSES

FIELD UNITS
 f'c = 3,500 psi (Substructure)
 f'c = 4,000 psi (Superstructure)
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (AASHTO M270, Grade 50)

PRECAST UNITS

f'c = 4,500 psi (MSE Wall Panels)

LOADING HL-93

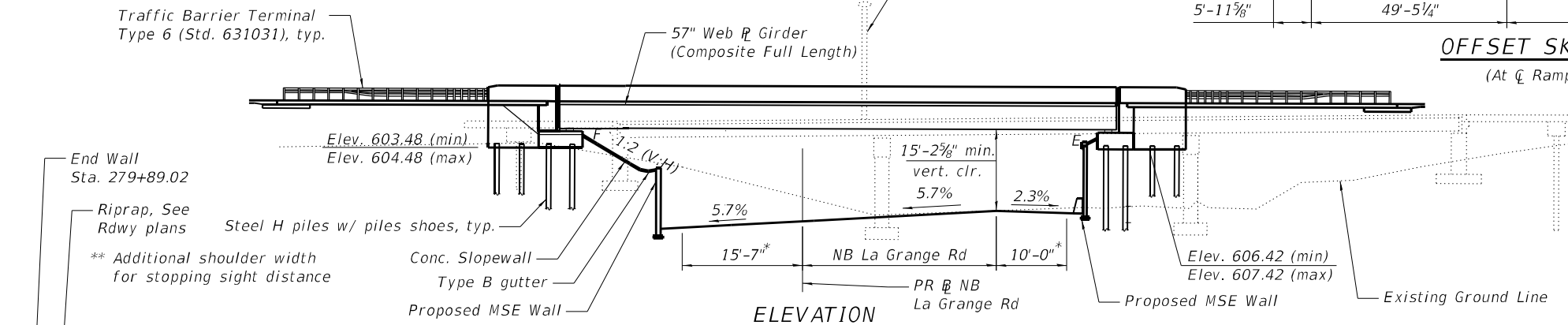
Allow 50#/sq. ft. for Future Wearing Surface

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec (SD1) = 0.056g
 Design Spectral Acceleration at 0.2 sec (SDS) = 0.119g
 Soil Site Class = C



OFFSET SKETCH
(At C Ramp A)

PROPOSED RAMP A

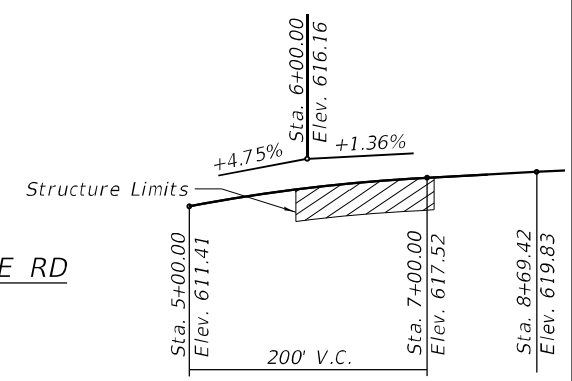
CURVE DATA

P.I. Sta. = 6+49.03
 $\Delta = 43^\circ 06' 50''$ (LT)
 D = 8° 11' 06"
 R = 700.00'
 T = 276.54'
 L = 526.74'
 E = 52.65'
 e = 5.0%
 T.R. = N/A
 S.E. Run = 97.00'
 P.C. Sta. = 3+72.49
 P.T. Sta. = 8+99.23

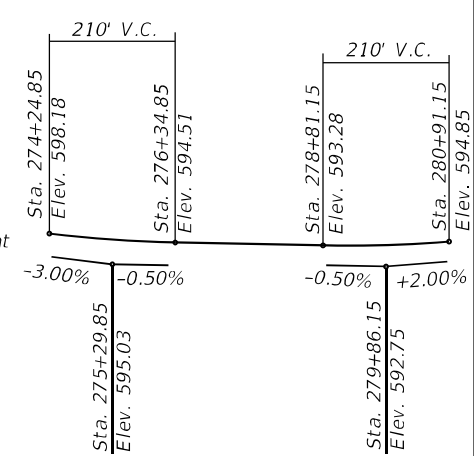
PROPOSED NB LA GRANGE RD

CURVE DATA

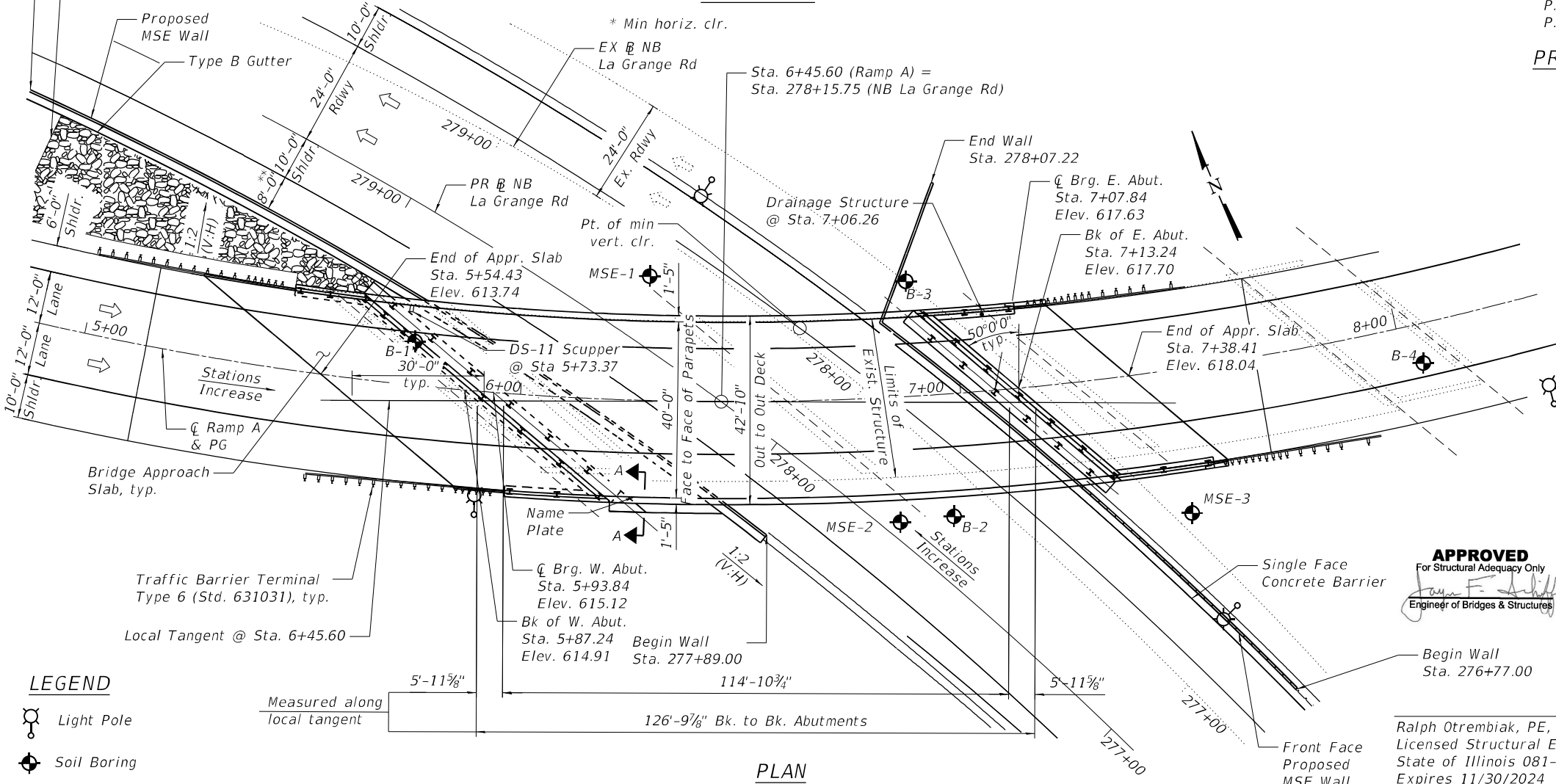
P.I. Sta. = 276+99.51
 $\Delta = 56^\circ 37' 48.87''$ (LT)
 D = 6° 43' 37.73"
 R = 851.71'
 T = 458.89'
 L = 841.82'
 E = 115.76'
 e = 5.7%
 T.R. = N/A
 S.E. Run = 150.00'
 P.C. Sta. = 272+40.62
 P.T. Sta. = 280+82.44



RAMP A PROFILE GRADE
(Along C Ramp A)



NB LA GRANGE RD PROFILE GRADE
(Along Prop. NB LaGrange Rd)



PROPOSED RAMP A

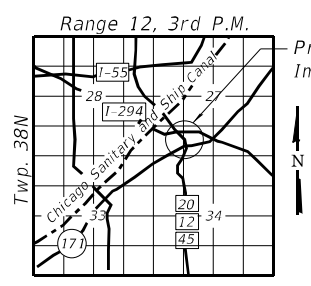
CURVE DATA

P.I. Sta. = 6+49.03
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PROPOSED NB LA GRANGE RD

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 E = 115.76'
 e = 5.7%
 T.R. = N/A
 S.E. Run = 150.00'
 P.C. Sta. = 272+40.62
 P.T. Sta. = 280+82.44



LOCATION SKETCH

APPROVED
 For Structural Adequacy Only
 Ralph Otrembiak, PE, SE
 Engineer of Bridges & Structures

Ralph Otrembiak, PE, SE Date 12/1/2023
 Licensed Structural Engineer
 State of Illinois 081-004812
 Expires 11/30/2024



LEGEND

- \odot Light Pole
- \oplus Soil Boring



USER NAME =	DESIGNED - JSR	REVISED -
PLOT SCALE =	CHECKED - RO	REVISED -
PLOT DATE =	DRAWN - JSR	REVISED -
	CHECKED - RO	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 016-2757

SHEET S1 OF S38 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	78
				CONTRACT NO. 62K60

ILLINOIS FED. AID PROJECT

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GENERAL NOTES

- Fasteners shall be ASTM F3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Bolts 7/8 in. Ø, holes, 1 1/16 in. Ø, unless otherwise noted.
- Calculated weight of Structural Steel = 322,890 lbs.
- All structural steel shall be AASHTO M270 Grade 50.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.
- Slipforming of the parapets is not allowed.
- A film forming Concrete Sealer shall be applied to the designated areas of the front face of the abutment backwalls and abutment beam seats.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.
- The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4.
- Approach slab removal, slopewall removal, and bridge rail removal is included in Removal of Existing Structures pay item.

INDEX OF SHEETS

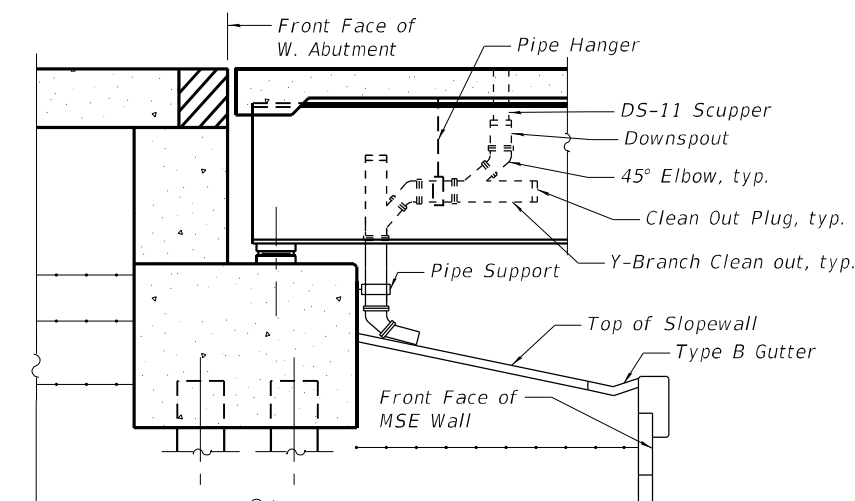
SHEET NO.	SHEET TITLE
S-1	General Plan & Elevation
S-2	General Data
S-3	Footing Layout
S-4	Top of Deck Elevations (Sheet 1 of 2)
S-5	Top of Deck Elevations (Sheet 2 of 2)
S-6	Top of Approach Slab Elevations
S-7	Superstructure Plan and Cross Section
S-8	Superstructure Details (Sheet 1 of 2)
S-9	Superstructure Details (Sheet 2 of 2)
S-10	West Approach Slab
S-11	West Approach Slab Details
S-12	East Approach Slab
S-13	East Approach Slab Details
S-14	Preformed Joint Strip Seal
S-15	Drainage Scupper DS-11
S-16	Framing Plan and Girder Elevation
S-17	Structural Steel Details (Sheet 1 of 2)
S-18	Structural Steel Details (Sheet 2 of 2)
S-19	Bearing Details
S-20	Guided Expansion HLMR Disc Bearing Details
S-21	Fixed HLMR Disc Bearing Details
S-22	West Abutment
S-23	West Abutment Details (Sheet 1 of 2)
S-24	West Abutment Details (Sheet 2 of 2)
S-25	East Abutment
S-26	East Abutment Details (Sheet 1 of 2)
S-27	East Abutment Details (Sheet 2 of 2)
S-28	West MSE Wall General Plan & Elevation
S-29	West MSE Wall Sections
S-30	West MSE Wall Coping Details
S-31	East MSE Wall General Plan & Elevation
S-32	East MSE Wall Sections
S-33	East MSE Wall Coping Details
S-34	HP Pile Details
S-35	Soil Borings (Sheet 1 of 4)
S-36	Soil Borings (Sheet 2 of 4)
S-37	Soil Borings (Sheet 3 of 4)
S-38	Soil Borings (Sheet 4 of 4)

TOTAL BILL OF MATERIAL

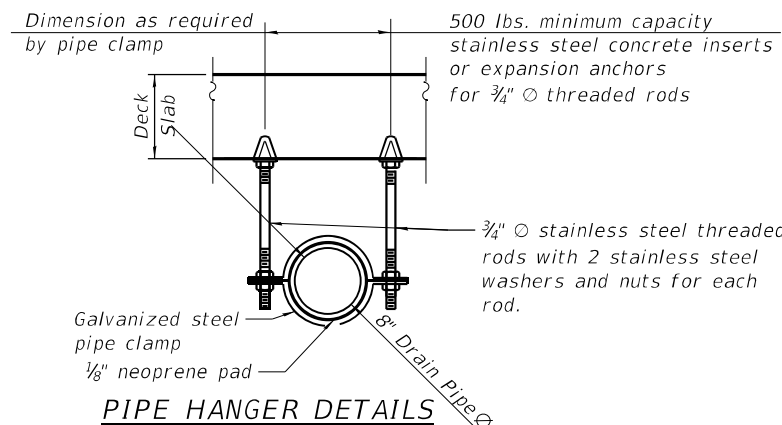
ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu Yd		115	115
Removal Of Existing Structures	Each		1	1
Removal and Disposal of Unsuitable Material for Structures	Cu Yd		115	115
Concrete Structures	Cu Yd		279.3	279.3
Concrete Superstructure	Cu Yd	187.0		187.0
Bridge Deck Grooving	Sq Yd	773		773
Protective Coat	Sq Yd	976		976
Concrete Superstructure (Approach Slab)	Cu Yd	114.1		114.1
Furnishing And Erecting Structural Steel	L Sum	1		1
Stud Shear Connectors	Each	3,609		3,609
Reinforcement Bars, Epoxy Coated	Pound	97,480	34,780	132,260
Slope Wall 4 Inch	Sq Yd		71	71
Furnishing Steel Piles HP12x53	Foot		1,856	1,856
Driving Piles	Foot		1,856	1,856
Test Pile Steel HP12x53	Each		2	2
Pile Shoes	Each		32	32
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	135		135
Anchor Bolts, 1 1/2"	Each	56		56
Mechanically Stabilized Earth Retaining Wall	Sq Ft		5,027	5,027
Drainage System For Structures	L Sum	1		1
Concrete Sealer	Sq Ft		2,884	2,884
High Load Multi-Rotational Bearings, Disc, Fixed-300K	Each	7		7
High Load Multi-Rotational Bearings, Disc, Guided Expansion-300K	Each	7		7
Drainage Scuppers, DS-11	Each	1		1

STATION 6+45.60
 BUILT 202_ BY
 STATE OF ILLINOIS
 F.A.P. RT. 330 SEC. 2019-187-B
 LOADING HL-93
 STR. 016-2757

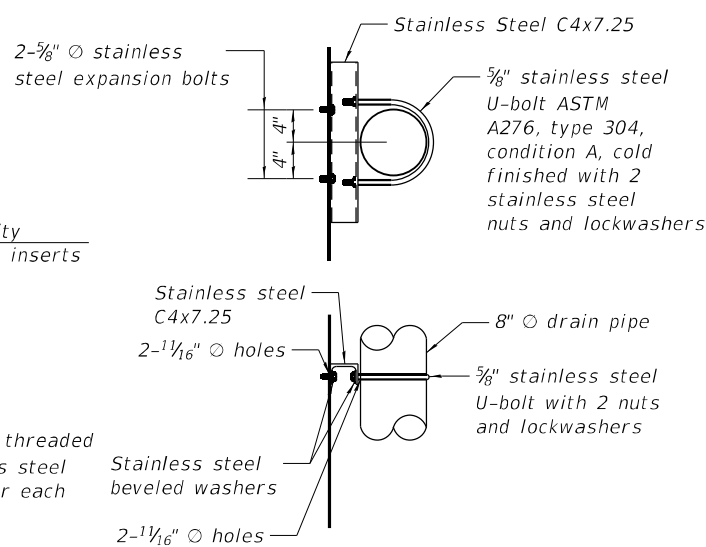
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 See Std. 515001



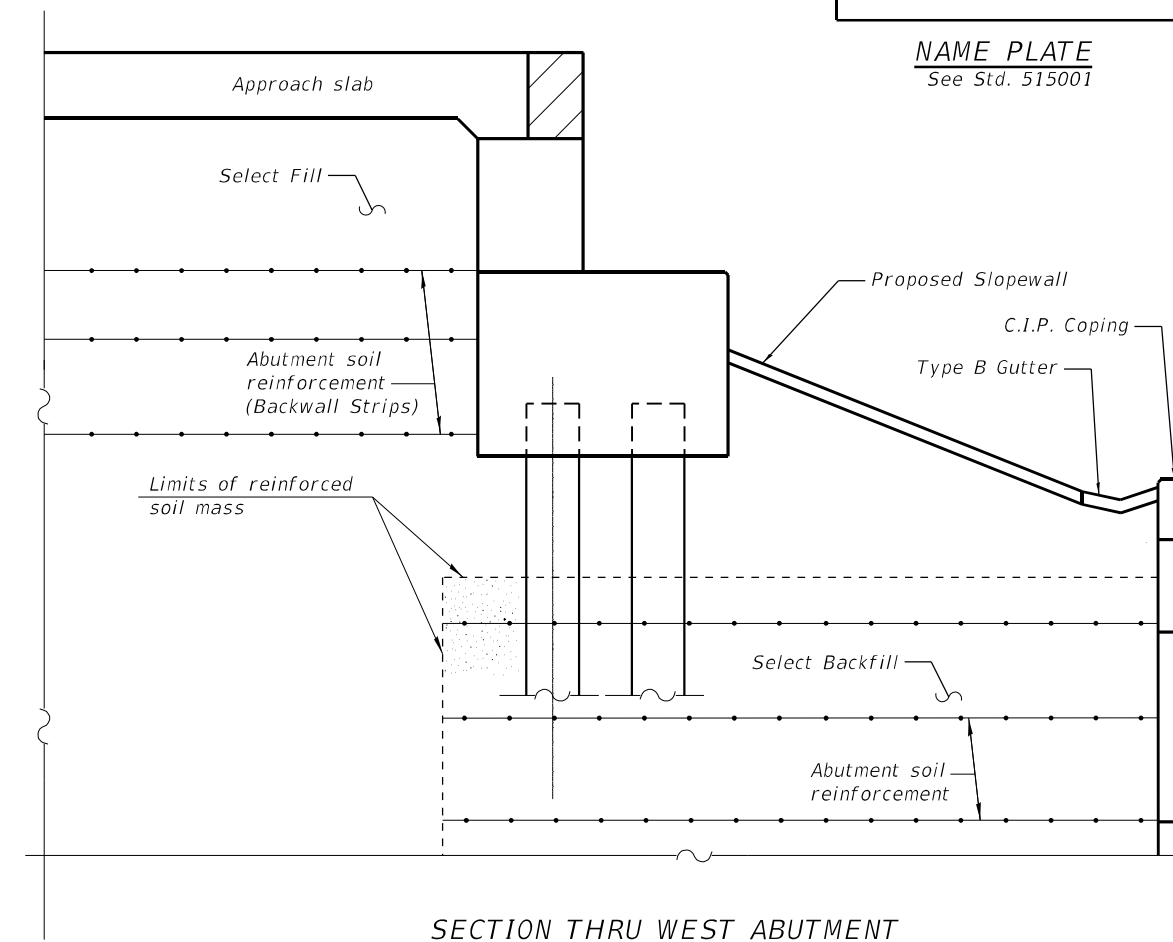
SECTION AT DS-11 SCUPPER
 (Drainage System for Structures)



PIPE HANGER DETAILS



VERTICAL DRAIN PIPE SUPPORT DETAIL



SECTION THRU WEST ABUTMENT
 (East Abutment Similar)

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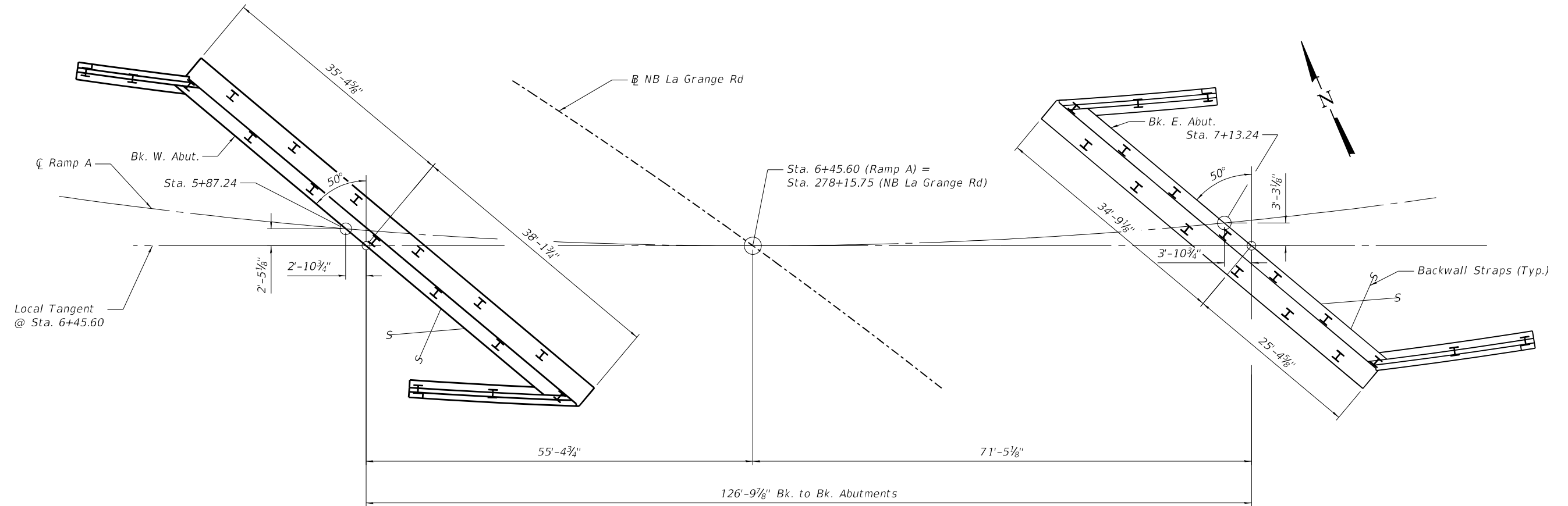
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 016-2757

SHEET 52 OF 538 SHEETS

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 79
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K60	

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FOOTING LAYOUT



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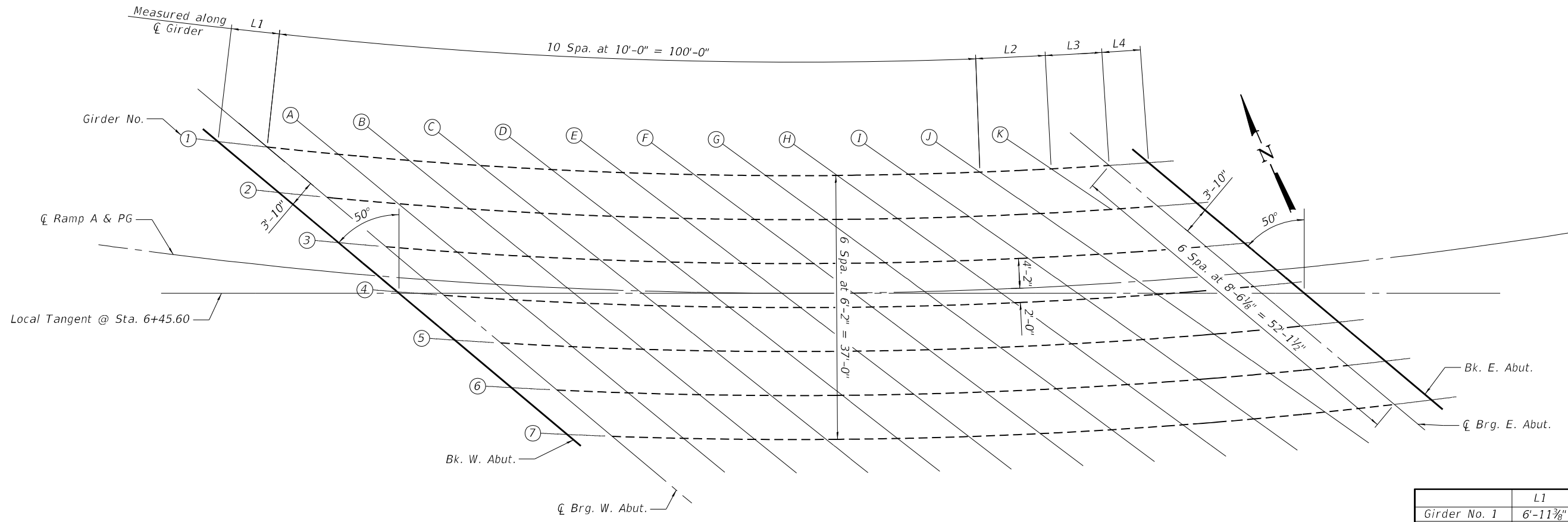
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FOOTING LAYOUT
 STRUCTURE NO. 016-2757

SHEET 53 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	80
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K60	

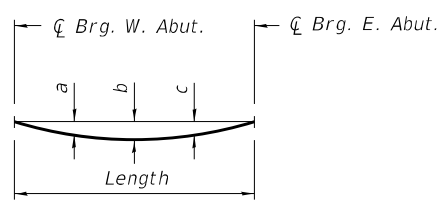
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PLAN

	L1	L2	L3	L4
Girder No. 1	6'-11 ³ / ₈ "	10'-0"	8'-1 ³ / ₄ "	5'-6 ¹ / ₄ "
Girder No. 2	6'-9 ³ / ₄ "	10'-0"	6'-6 ¹ / ₈ "	5'-5 ⁵ / ₈ "
Girder No. 3	6'-8 ¹ / ₈ "	14'-11 ³ / ₄ "	---	5'-5 ¹ / ₈ "
Girder No. 4	6'-7 ¹ / ₄ "	14'-0 ¹ / ₈ "	---	5'-4 ³ / ₄ "
Girder No. 5	6'-6 ³ / ₄ "	13'-6 ⁵ / ₈ "	---	5'-4 ¹ / ₂ "
Girder No. 6	6'-5 ¹ / ₂ "	12'-2 ⁵ / ₈ "	---	5'-4"
Girder No. 7	6'-4 ¹ / ₄ "	10'-11 ¹ / ₂ "	---	5'-3 ¹ / ₂ "
Girder No. 8	6'-3 ¹ / ₄ "	9'-9 ¹ / ₄ "	---	5'-3"

DIMENSION TABLE

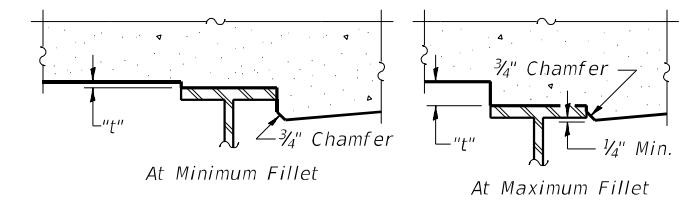


DEAD LOAD DEFLECTION DIAGRAM
 (Includes weight of concrete only)

Note:
 The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheet S5.

Girder No.	Length	a	b	c
1	118'-1 ³ / ₄ "	1 ¹ / ₈ "	1 ⁹ / ₁₆ "	1 ¹ / ₈ "
2	116'-6 ¹ / ₈ "	1"	1 ¹ / ₂ "	1 ¹ / ₁₆ "
3	114'-11 ³ / ₄ "	1"	1 ¹ / ₁₆ "	1"
4	113'-6 ⁵ / ₈ "	1"	1 ³ / ₈ "	1"
5	112'-2 ⁵ / ₈ "	1"	1 ¹ / ₂ "	1 ¹ / ₁₆ "
6	110'-11 ¹ / ₂ "	1 ¹ / ₈ "	1 ³ / ₈ "	1 ³ / ₁₆ "
7	109'-9 ¹ / ₄ "	1 ³ / ₈ "	1 ¹ / ₈ "	1 ³ / ₈ "

DEAD LOADS DEFLECTION TABLE
 (Includes weight of concrete only)



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheet S5, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

(Sheet 1 of 2)



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PLOT DATE =	DRAWN - JSR	REVISED -
	CHECKED - RO	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS
 STRUCTURE NO. 016-2757

SHEET 54 OF S38 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	81
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K60	

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	5+62.69	-16.50	613.23	613.23
☉ Brg. W. Abut	5+69.80	-16.50	613.49	613.49
A	5+80.04	-16.50	613.84	613.88
B	5+90.28	-16.50	614.18	614.25
C	6+00.52	-16.50	614.50	614.59
D	6+10.76	-16.50	614.81	614.92
E	6+21.01	-16.50	615.09	615.22
F	6+31.25	-16.50	615.36	615.49
G	6+41.49	-16.50	615.61	615.74
H	6+51.73	-16.50	615.84	615.95
I	6+61.97	-16.50	616.06	616.15
J	6+72.21	-16.50	616.25	616.31
K	6+82.45	-16.50	616.43	616.46
☉ Brg. E. Abut	6+90.79	-16.50	616.56	616.56
Bk. E. Abut.	6+96.45	-16.50	616.65	616.65

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	5+72.15	-10.33	613.88	613.88
☉ Brg. W. Abut	5+79.06	-10.33	614.12	614.12
A	5+89.21	-10.33	614.46	614.49
B	5+99.36	-10.33	614.78	614.84
C	6+09.51	-10.33	615.08	615.17
D	6+19.66	-10.33	615.36	615.47
E	6+29.81	-10.33	615.63	615.75
F	6+39.96	-10.33	615.88	616.00
G	6+50.11	-10.33	616.11	616.23
H	6+60.26	-10.33	616.33	616.43
I	6+70.41	-10.33	616.53	616.61
J	6+80.56	-10.33	616.71	616.76
K	6+90.71	-10.33	616.87	616.89
☉ Brg. E. Abut	6+97.31	-10.33	616.97	616.97
Bk. E. Abut.	7+02.87	-10.33	617.04	617.04

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	5+81.26	-4.17	614.50	614.50
☉ Brg. W. Abut	5+87.98	-4.17	614.72	614.72
A	5+98.04	-4.17	615.04	615.07
B	6+08.10	-4.17	615.35	615.41
C	6+18.16	-4.17	615.63	615.72
D	6+28.22	-4.17	615.90	616.01
E	6+38.28	-4.17	616.15	616.27
F	6+48.34	-4.17	616.38	616.50
G	6+58.40	-4.17	616.60	616.71
H	6+68.46	-4.17	616.80	616.90
I	6+78.52	-4.17	616.98	617.06
J	6+88.58	-4.17	617.15	617.20
☉ Brg. E. Abut	7+03.65	-4.17	617.36	617.36
Bk. E. Abut.	7+09.11	-4.17	617.44	617.44

☉ RAMP A & PG

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	5+87.24	0.00	614.91	614.91
☉ Brg. W. Abut	5+93.84	0.00	615.12	615.12
A	6+03.84	0.00	615.43	615.46
B	6+13.84	0.00	615.72	615.78
C	6+23.84	0.00	615.99	616.08
D	6+33.84	0.00	616.25	616.35
E	6+43.84	0.00	616.49	616.60
F	6+53.84	0.00	616.71	616.83
G	6+63.84	0.00	616.92	617.03
H	6+73.84	0.00	617.11	617.21
I	6+83.84	0.00	617.28	617.35
J	6+93.84	0.00	617.43	617.48
☉ Brg. E. Abut	7+07.84	0.00	617.63	617.63
Bk. E. Abut.	7+13.24	0.00	617.70	617.70

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	5+90.05	2.00	615.10	615.10
☉ Brg. W. Abut	5+96.60	2.00	615.31	615.31
A	6+06.57	2.00	615.61	615.64
B	6+16.54	2.00	615.89	615.95
C	6+26.51	2.00	616.16	616.25
D	6+36.49	2.00	616.41	616.51
E	6+46.46	2.00	616.65	616.76
F	6+56.43	2.00	616.87	616.99
G	6+66.40	2.00	617.07	617.18
H	6+76.37	2.00	617.25	617.34
I	6+86.34	2.00	617.42	617.49
J	6+96.31	2.00	617.57	617.66
☉ Brg. E. Abut	7+09.83	2.00	617.75	617.75
Bk. E. Abut.	7+15.19	2.00	617.83	617.83

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	5+98.54	8.17	615.68	615.68
☉ Brg. W. Abut	6+04.92	8.17	615.87	615.87
A	6+14.81	8.17	616.15	616.18
B	6+24.69	8.17	616.42	616.48
C	6+34.58	8.17	616.68	616.77
D	6+44.46	8.17	616.91	617.02
E	6+54.35	8.17	617.13	617.25
F	6+64.23	8.17	617.33	617.45
G	6+74.12	8.17	617.52	617.63
H	6+84.00	8.17	617.69	617.79
I	6+93.89	8.17	617.84	617.91
J	7+03.77	8.17	617.98	618.02
☉ Brg. E. Abut	7+15.84	8.17	618.14	618.14
Bk. E. Abut.	7+21.11	8.17	618.22	618.22

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	6+06.75	14.33	616.23	616.23
☉ Brg. W. Abut	6+12.98	14.33	616.41	616.41
A	6+22.78	14.33	616.68	616.72
B	6+32.58	14.33	616.93	617.00
C	6+42.38	14.33	617.17	617.27
D	6+52.18	14.33	617.39	617.51
E	6+61.97	14.33	617.60	617.73
F	6+71.77	14.33	617.79	617.92
G	6+81.57	14.33	617.96	618.08
H	6+91.37	14.33	618.11	618.22
I	7+01.17	14.33	618.25	618.33
J	7+10.97	14.33	618.39	618.43
☉ Brg. E. Abut	7+21.71	14.33	618.53	618.53
Bk. E. Abut.	7+26.89	14.33	618.60	618.60

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	6+14.69	20.50	616.77	616.77
☉ Brg. W. Abut	6+20.78	20.50	616.94	616.94
A	6+30.49	20.50	617.19	617.24
B	6+40.21	20.50	617.43	617.52
C	6+49.92	20.50	617.65	617.77
D	6+59.64	20.50	617.86	618.00
E	6+69.35	20.50	618.05	618.20
F	6+79.07	20.50	618.22	618.37
G	6+88.79	20.50	618.38	618.52
H	6+98.50	20.50	618.52	618.64
I	7+08.22	20.50	618.66	618.75
J	7+17.93	20.50	618.79	618.84
☉ Brg. E. Abut	7+27.42	20.50	618.92	618.92
Bk. E. Abut.	7+32.52	20.50	618.99	618.99

(Sheet 2 of 2)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF DECK ELEVATIONS
STRUCTURE NO. 016-2757**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	82
CONTRACT NO. 62K60				
SHEET 55 OF 538 SHEETS		ILLINOIS FED. AID PROJECT		

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WEST APPROACH SLAB

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	5+24.46	-18.00	611.62
A	5+37.42	-18.00	612.17
B	5+49.99	-18.00	612.67
E. End of W. Appr. Slab	5+62.21	-18.00	613.14

NORTH EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	5+34.87	-12.00	612.36
A	5+47.40	-12.00	612.87
B	5+59.59	-12.00	613.34
E. End of W. Appr. Slab	5+71.45	-12.00	613.77

CL RAMP A & PG

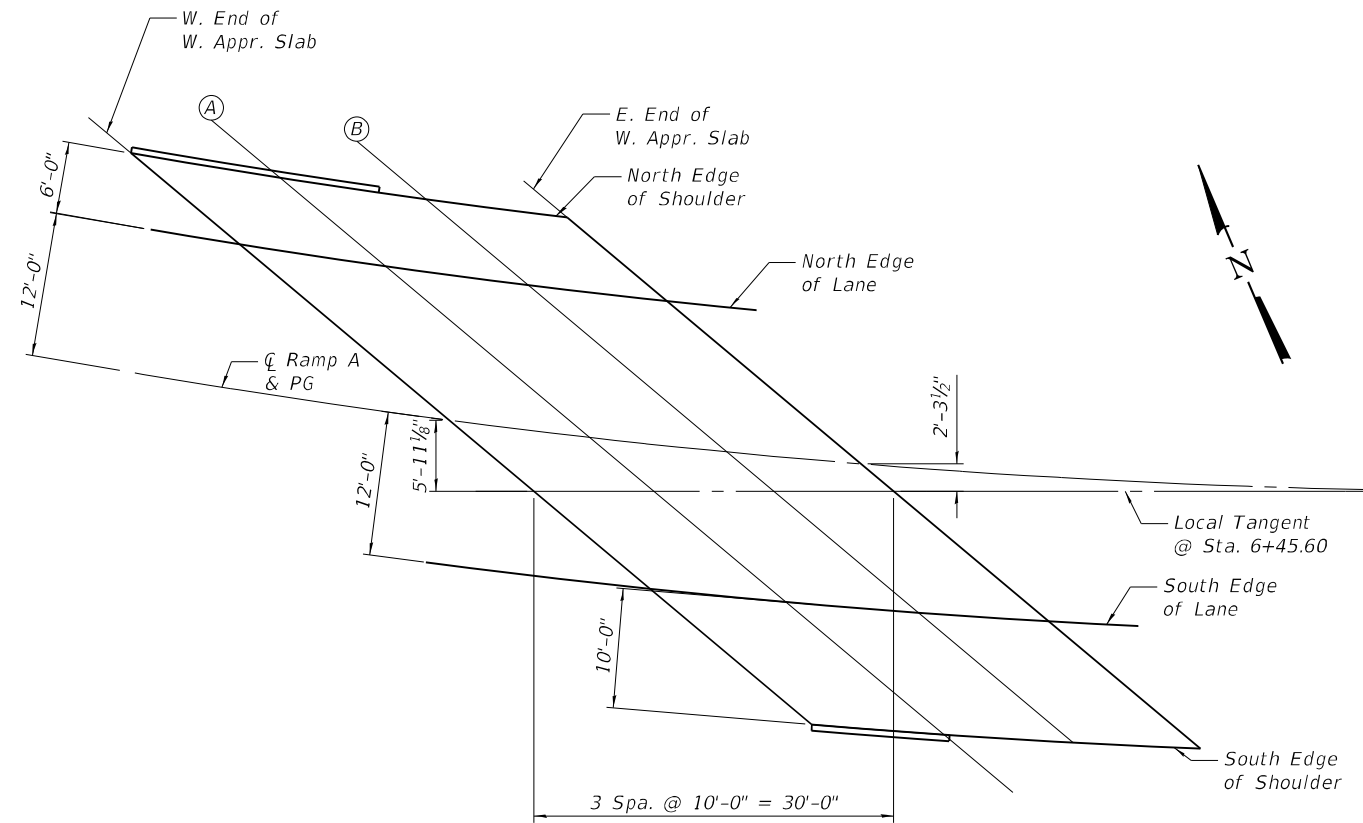
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	5+54.43	0.00	613.74
A	5+66.23	0.00	614.18
B	5+77.73	0.00	614.59
E. End of W. Appr. Slab	5+88.97	0.00	614.97

SOUTH EDGE OF LANE

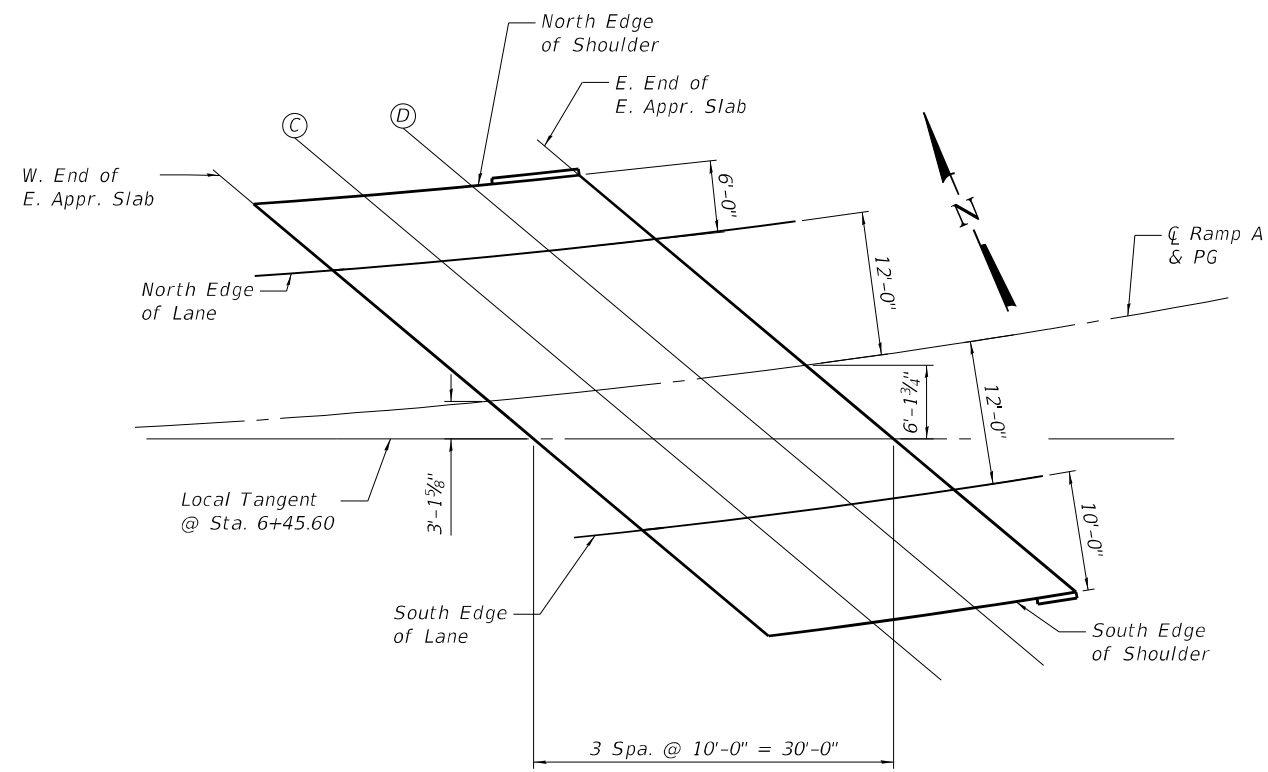
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	5+72.56	12.00	615.01
A	5+83.72	12.00	615.39
B	5+94.64	12.00	615.75
E. End of W. Appr. Slab	6+05.32	12.00	616.07

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	5+86.71	22.00	615.99
A	5+97.41	22.00	616.33
B	6+07.89	22.00	616.65
E. End of W. Appr. Slab	6+18.17	22.00	616.94



WEST APPROACH SLAB



EAST APPROACH SLAB

EAST APPROACH SLAB

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	6+93.39	-18.00	616.53
C	7+02.83	-18.00	616.66
D	7+12.15	-18.00	616.79
E. End of E. Appr. Slab	7+21.35	-18.00	616.91

NORTH EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	6+99.70	-12.00	616.92
C	7+08.98	-12.00	617.04
D	7+18.14	-12.00	617.17
E. End of E. Appr. Slab	7+27.18	-12.00	617.29

CL RAMP A & PG

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	7+11.83	0.00	617.68
C	7+20.80	0.00	617.80
D	7+29.66	0.00	617.92
E. End of E. Appr. Slab	7+38.41	0.00	618.04

SOUTH EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	7+23.37	12.00	618.44
C	7+32.05	12.00	618.56
D	7+40.63	12.00	618.67
E. End of E. Appr. Slab	7+49.12	12.00	618.79

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	7+32.55	22.00	619.06
C	7+41.01	22.00	619.18
D	7+49.38	22.00	619.29
E. End of E. Appr. Slab	7+57.65	22.00	619.40

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 016-2757

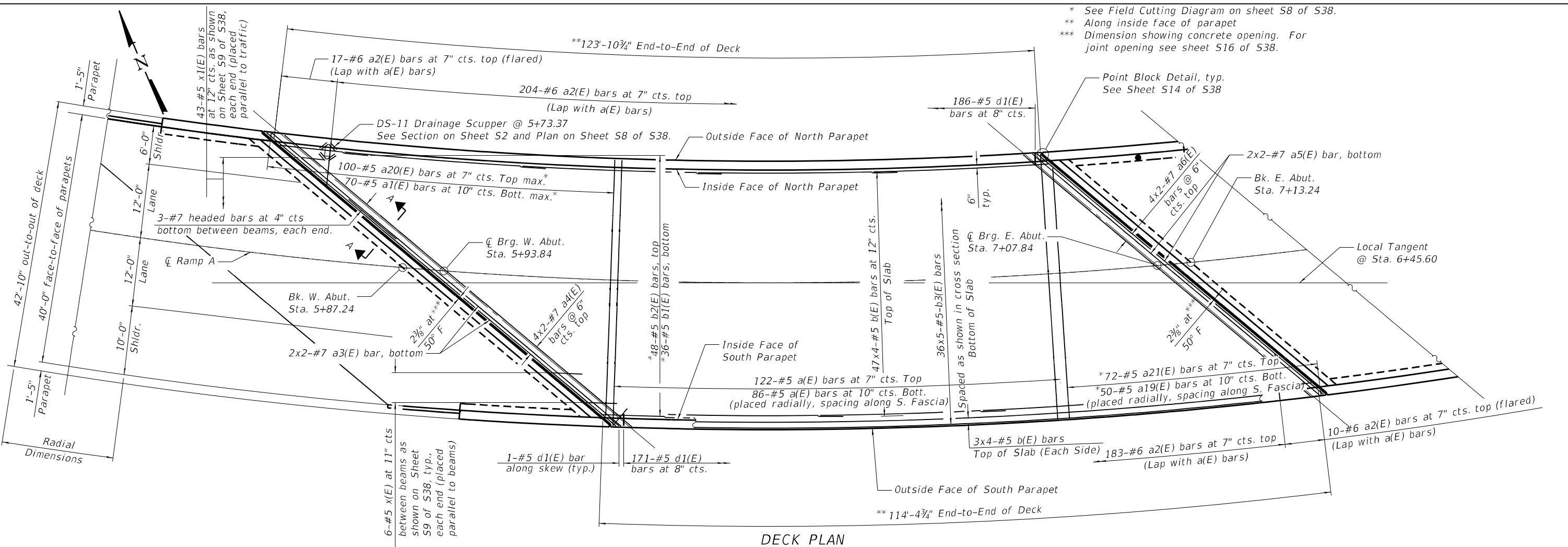
SHEET 56 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	83
				CONTRACT NO. 62K60



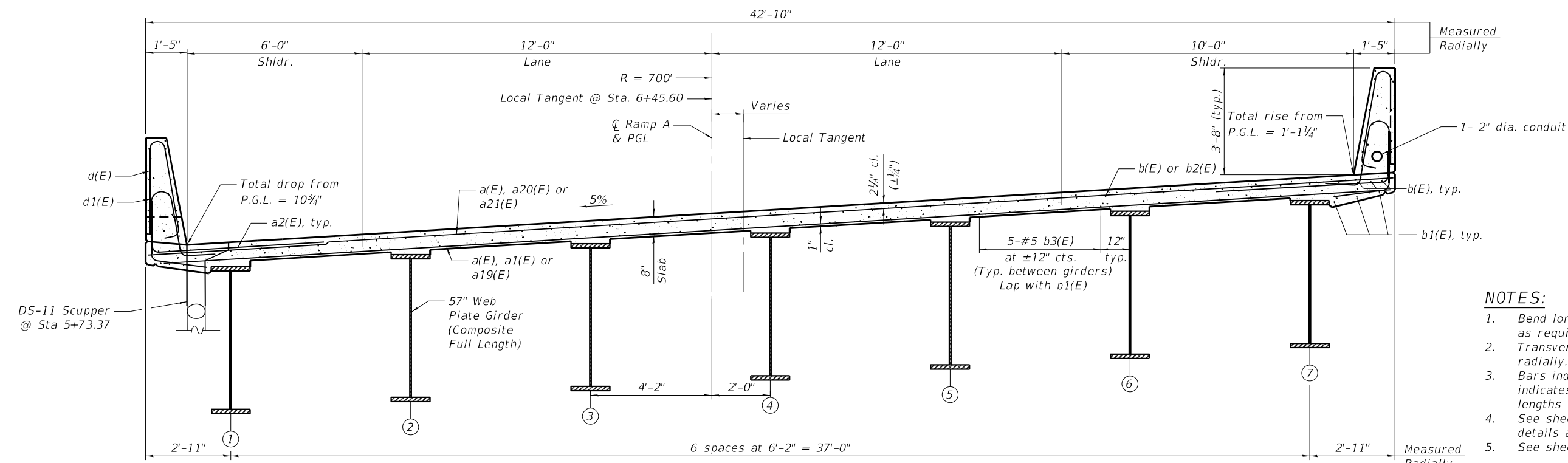
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* See Field Cutting Diagram on sheet S8 of S38.
 ** Along inside face of parapet
 *** Dimension showing concrete opening. For joint opening see sheet S16 of S38.

DECK PLAN



CROSS SECTION
 (Looking Upstation)
 (Horiz. dim. @ Rt. L's)

MINIMUM BAR LAP
 #5 Bar = 3'-6"
 #7 Bar = 4'-8"

- NOTES:**
1. Bend longitudinal reinforcement in the field as required to fit the curve.
 2. Transverse reinforcement should be placed radially.
 3. Bars indicated thus 3x5-#5 etc. indicates 3 lines of bars with 5 lengths per line.
 4. See sheet S8 of S38 for superstructure details and Bill of Material.
 5. See sheet S9 of S38 for Section A-A.

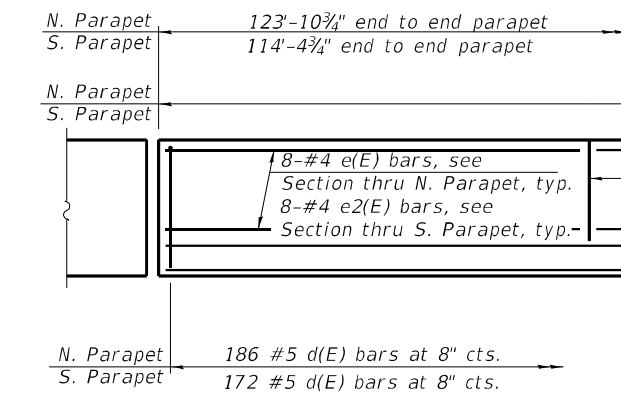


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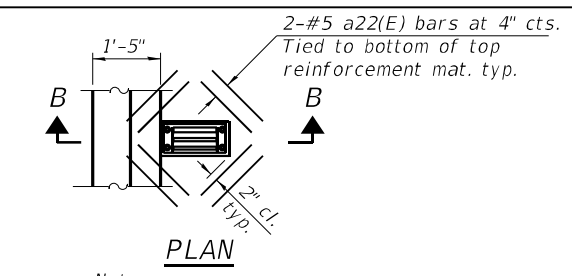
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE PLAN AND CROSS SECTION
 STRUCTURE NO. 016-2757

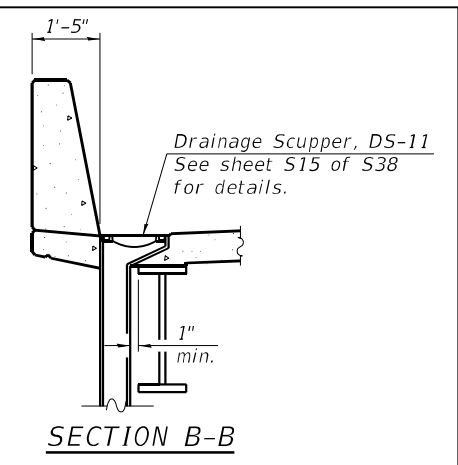
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	84
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



MINIMUM BAR LAP
#4 bar = 2'-5"

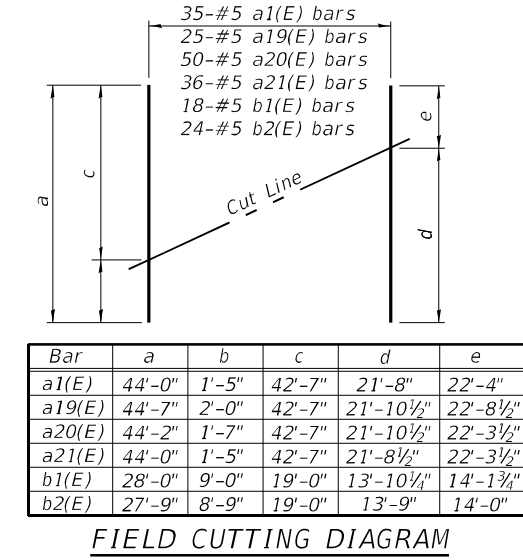
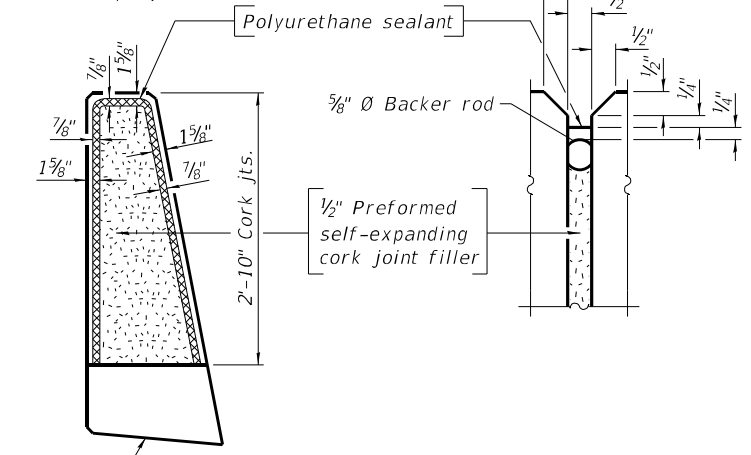


Note:
Cut longitudinal reinforcement to clear drainage scuppers.



INSIDE ELEVATION OF PARAPET

Notes:
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

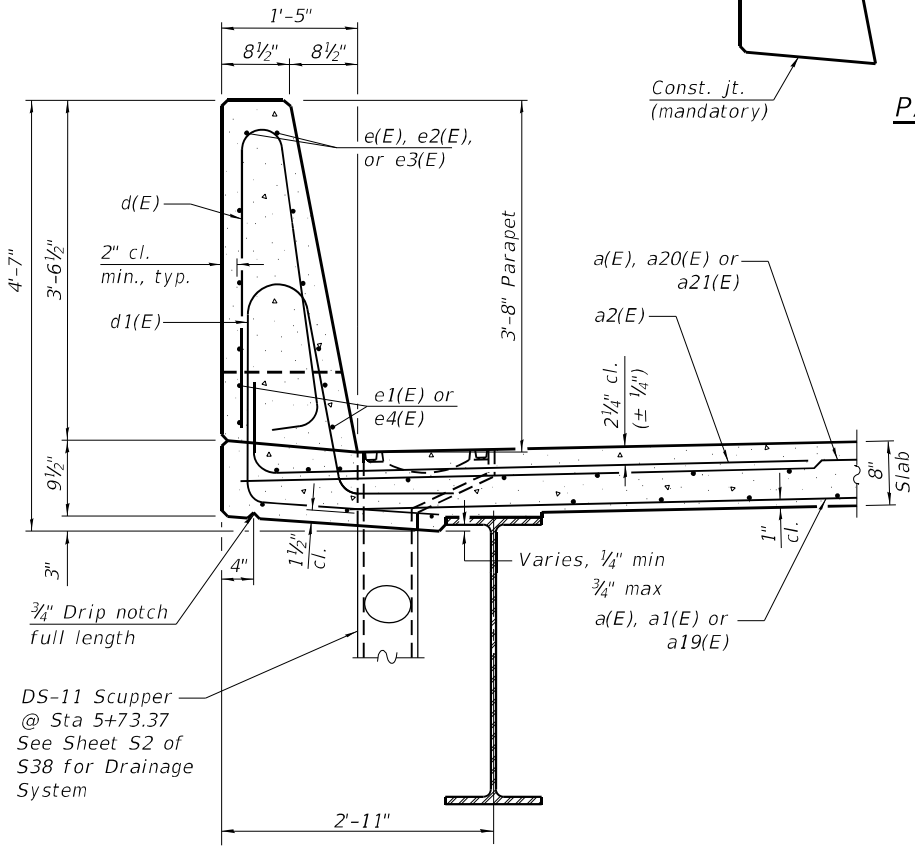


Bar	a	b	c	d	e
a1(E)	44'-0"	1'-5"	42'-7"	21'-8"	22'-4"
a19(E)	44'-7"	2'-0"	42'-7"	21'-10 1/2"	22'-8 1/2"
a20(E)	44'-2"	1'-7"	42'-7"	21'-10 1/2"	22'-3 1/2"
a21(E)	44'-0"	1'-5"	42'-7"	21'-8 1/2"	22'-3 1/2"
b1(E)	28'-0"	9'-0"	19'-0"	13'-10 1/4"	14'-1 3/4"
b2(E)	27'-9"	8'-9"	19'-0"	13'-9"	14'-0"

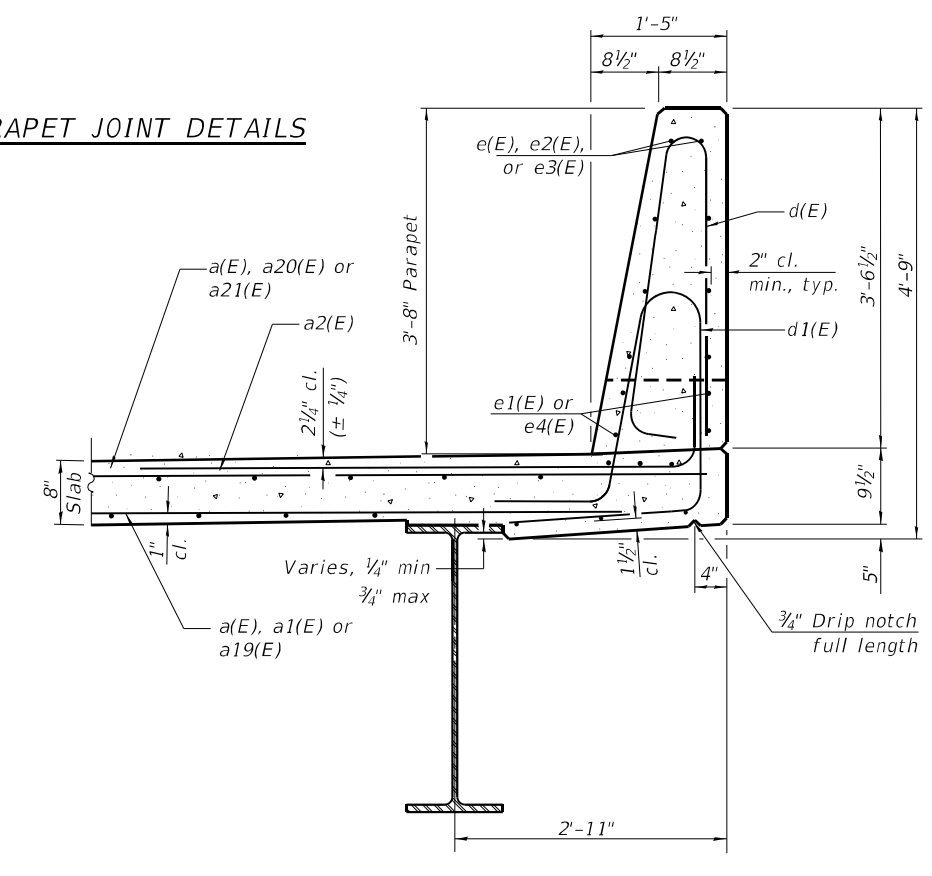
Bar	L
a7(E)	10'-9"
a8(E)	10'-6"
a9(E)	10'-4"
a10(E)	10'-2"
a11(E)	10'-0"
a12(E)	9'-10"
a13(E)	8'-8"
a14(E)	8'-7"
a15(E)	8'-6"
a16(E)	8'-5"
a17(E)	8'-4"
a18(E)	8'-3"

SUPERSTRUCTURE BILL OF MATERIAL

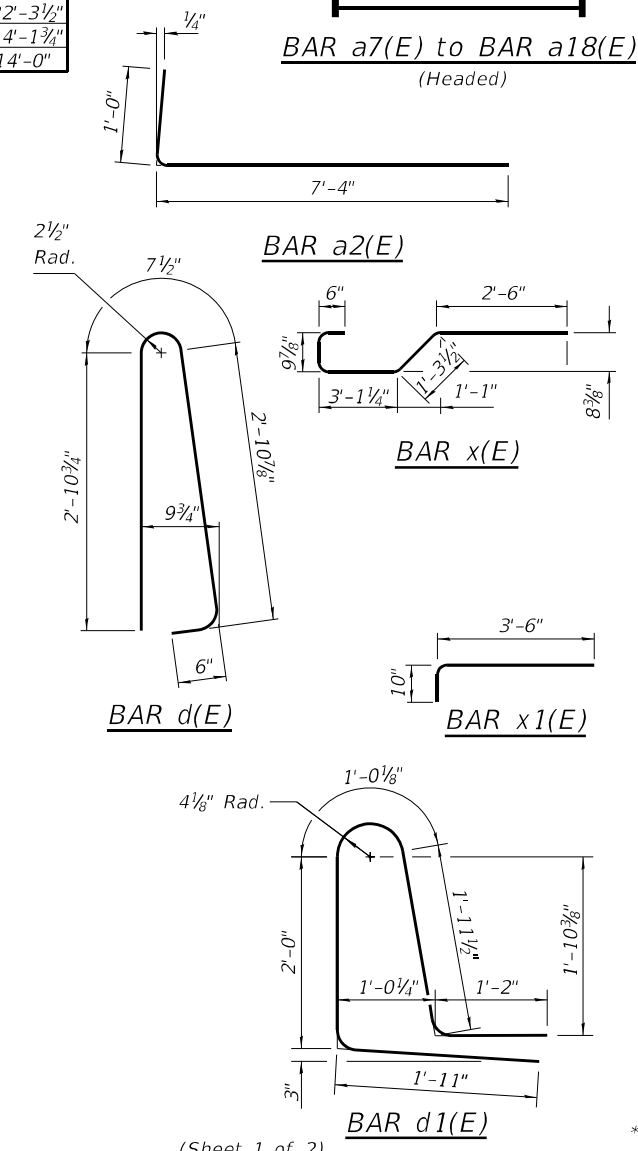
Bar	No.	Size	Length	Shape
a(E)	208	#5	42'-7"	—
a1(E)	35	#5	44'-0"	—
a2(E)	414	#6	8'-4"	—
a3(E)	6	#7	27'-7"	—
a4(E)	8	#7	39'-0"	—
a5(E)	6	#7	23'-2"	—
a6(E)	8	#7	32'-4"	—
a7(E)	3	#7	10'-9"	—
a8(E)	3	#7	10'-6"	—
a9(E)	3	#7	10'-4"	—
a10(E)	3	#7	10'-2"	—
a11(E)	3	#7	10'-0"	—
a12(E)	3	#7	9'-10"	—
a13(E)	3	#7	8'-8"	—
a14(E)	3	#7	8'-7"	—
a15(E)	3	#7	8'-6"	—
a16(E)	3	#7	8'-5"	—
a17(E)	3	#7	8'-4"	—
a18(E)	3	#7	8'-3"	—
a19(E)	25	#5	44'-7"	—
a20(E)	50	#5	44'-2"	—
a21(E)	36	#5	44'-0"	—
a22(E)	8	#5	2'-0"	—
b(E)	188	#5	30'-0"	—
b1(E)	18	#5	28'-0"	—
b2(E)	24	#5	27'-9"	—
b3(E)	180	#5	24'-9"	—
x(E)	72	#5	8'-3"	—
x1(E)	86	#5	4'-4"	—
d(E)	358	#5	7'-0"	—
d1(E)	358	#5	8'-2"	—
e(E)	56	#4	17'-5"	—
e1(E)	20	#4	32'-10"	—
e2(E)	48	#4	18'-9"	—
e3(E)	20	#4	30'-3"	—
Reinforcement Bars, Epoxy Coated			Lbs.	44,160
Concrete Superstructure			Cu. Yds.	187.0



SECTION THRU NORTH PARAPET



SECTION THRU SOUTH PARAPET



(Sheet 1 of 2)

MODEL: Default
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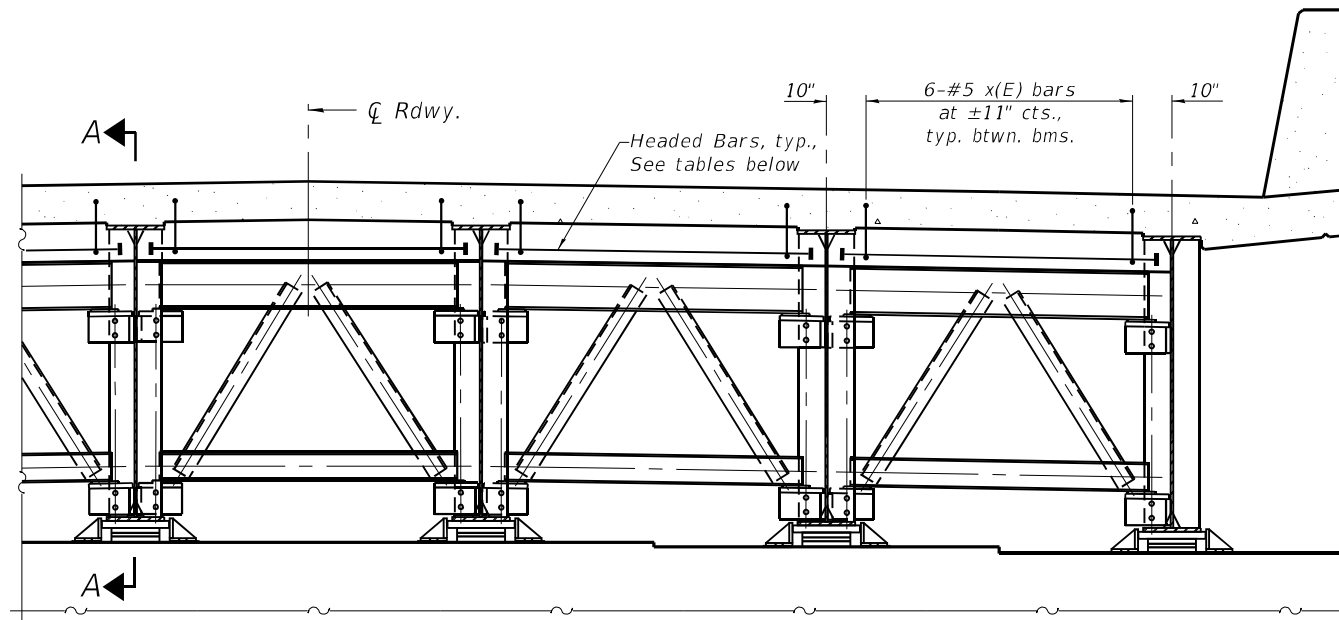
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PLOT SCALE =	CHECKED - RO	REVISED -
PLOT DATE =	DRAWN - JSR	REVISED -
	CHECKED - RO	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 016-2757**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	85
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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DIAPHRAGM AT ABUTMENT

WEST ABUTMENT HEADED BARS

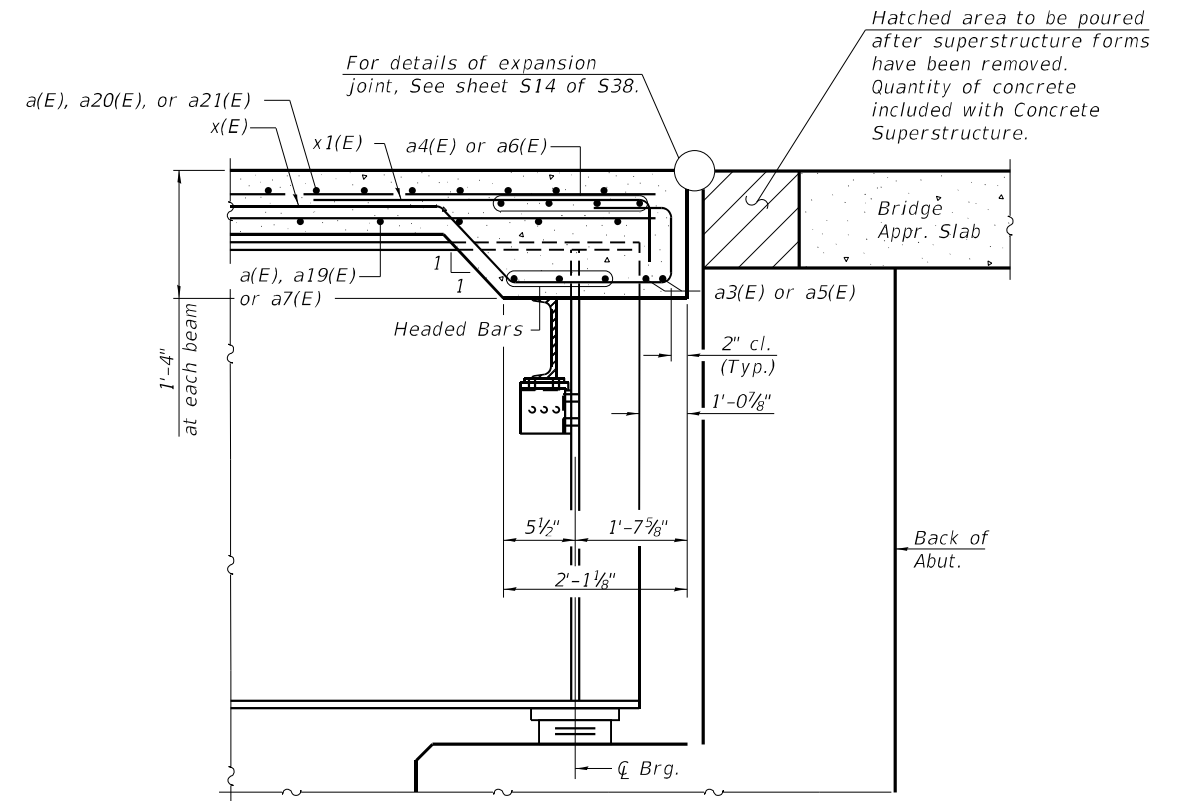
BAY NUMBER	BAR DESIGNATION
1	a7(E)
2	a8(E)
3	a9(E)
4	a10(E)
5	a11(E)
6	a12(E)

EAST ABUTMENT HEADED BARS

BAY NUMBER	BAR DESIGNATION
1	a13(E)
2	a14(E)
3	a15(E)
4	a16(E)
5	a17(E)
6	a18(E)

Note:
 Bays are numbered from north to south. A bay is considered between \bar{c} girder to \bar{c} girder.

Notes:
 See sheet S8 of S38 for superstructure details and Bill of Material.
 The x(E) and x1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.



SECTION A-A

(at Rt. L's)
 (Full cross frame not shown for clarity)

DEA-SB≥40-LR≥45 1-1-2020

(Sheet 2 of 2)



USER NAME =	DESIGNED - JSR	REVISED -
PLOT SCALE =	CHECKED - RO	REVISED -
PLOT DATE =	DRAWN - JSR	REVISED -
	CHECKED - RO	REVISED -

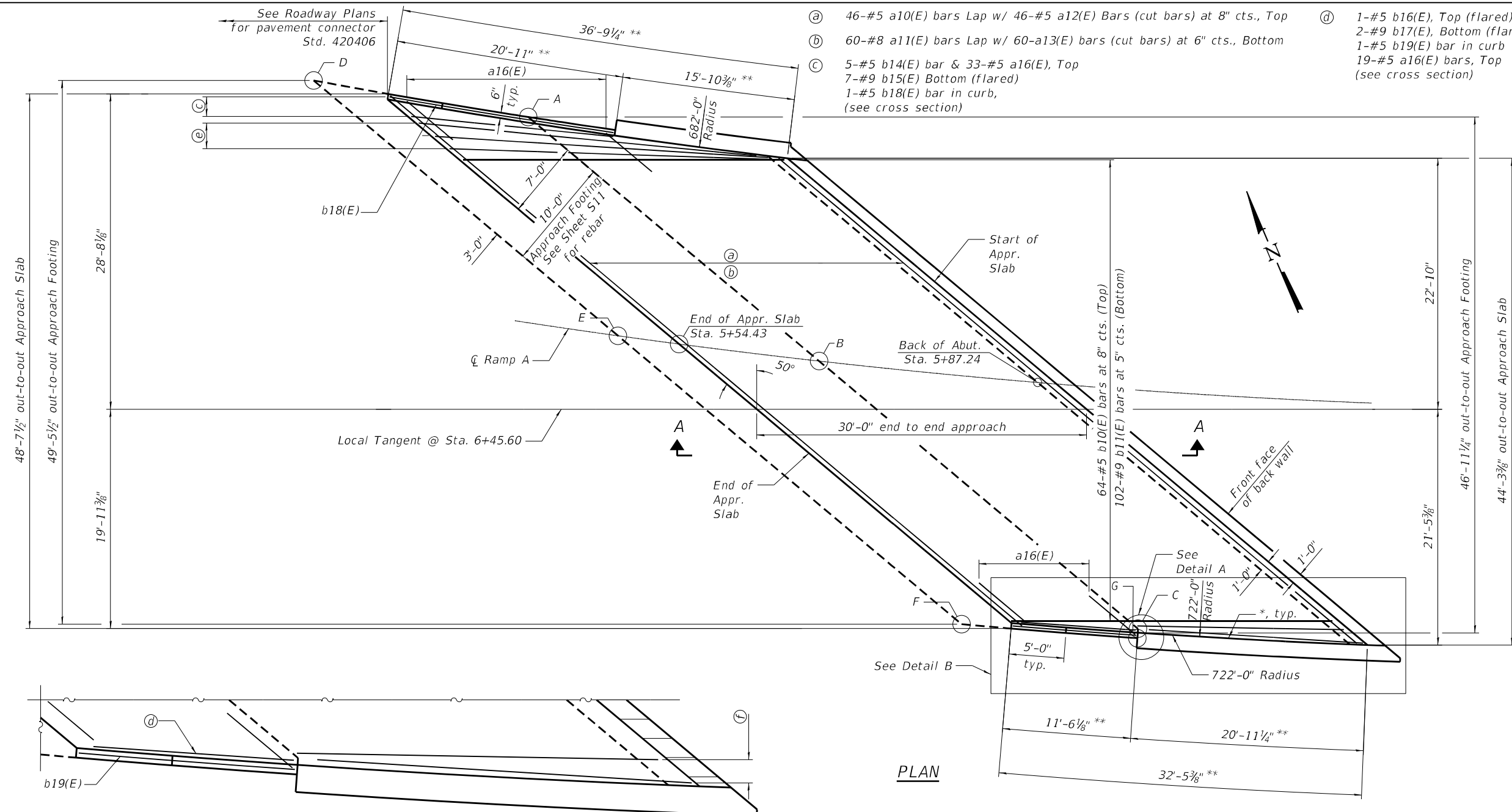
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
 STRUCTURE NO. 016-2757**

SHEET 59 OF S38 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	86
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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- (a) 46-#5 a10(E) bars Lap w/ 46-#5 a12(E) Bars (cut bars) at 8" cts., Top
- (b) 60-#8 a11(E) bars Lap w/ 60-a13(E) bars (cut bars) at 6" cts., Bottom
- (c) 5-#5 b14(E) bar & 33-#5 a16(E), Top
7-#9 b15(E) Bottom (flared)
1-#5 b18(E) bar in curb, (see cross section)
- (d) 1-#5 b16(E), Top (flared)
2-#9 b17(E), Bottom (flared)
1-#5 b19(E) bar in curb
19-#5 a16(E) bars, Top (see cross section)
- (e) 4-#5 b12(E) bars, Top (flared)
7-#9 b13(E) bars, Bottom (flared)
- (f) 2-#5 b14(E) bars, Top (flared)
3-#9 b15(E) bars, Bottom (flared)

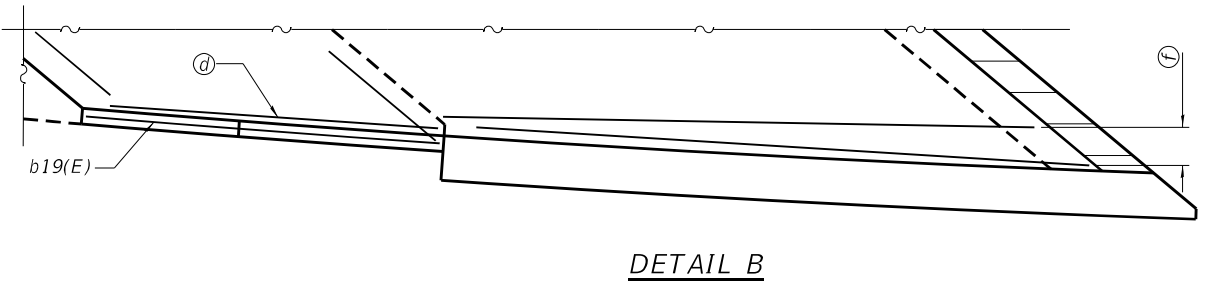
TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point/Location	Approach	
	Top	Bottom
A -	610.91	610.07
B -	612.97	612.14
C -	615.08	614.25
D -	610.03	609.20
E -	612.28	611.44
F -	614.62	613.79
G -	615.12	614.29

NOTES:
 1. Bars indicated thus 3x5-#5 etc. indicates 3 lines of bars with 5 lengths per line.

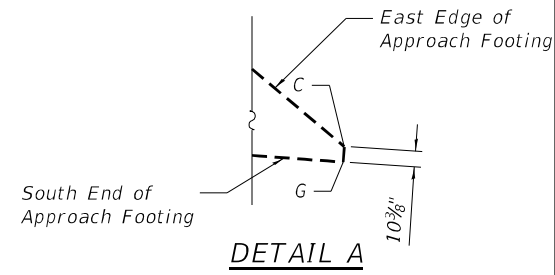
MINIMUM BAR LAP
 #4 = 2'-5"
 #5 = 3'-4"
 #8 = 4'-9"

1/2" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typ. each parapet.
 ** Measured along inside face of parapet/curb

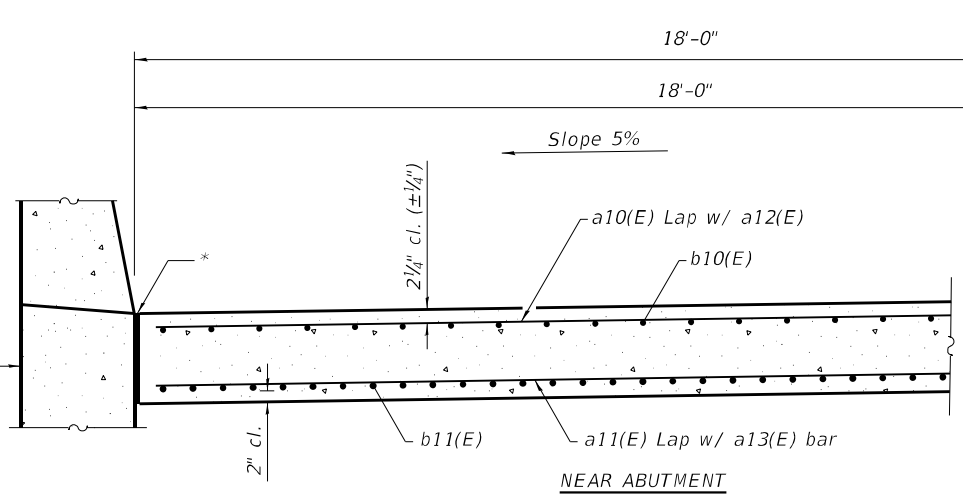


DETAIL B

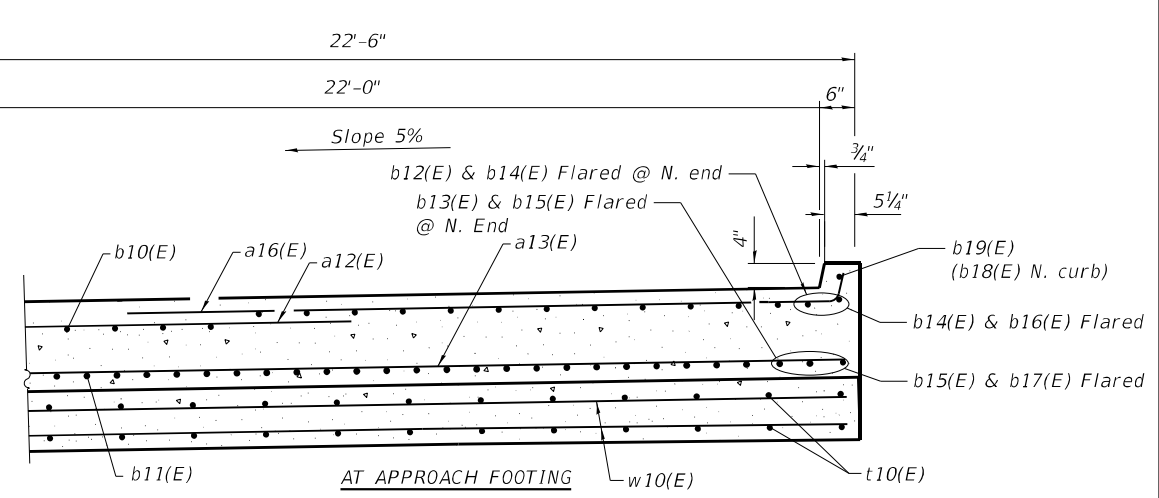
PLAN



DETAIL A



CROSS SECTION (Looking East)



AT APPROACH FOOTING



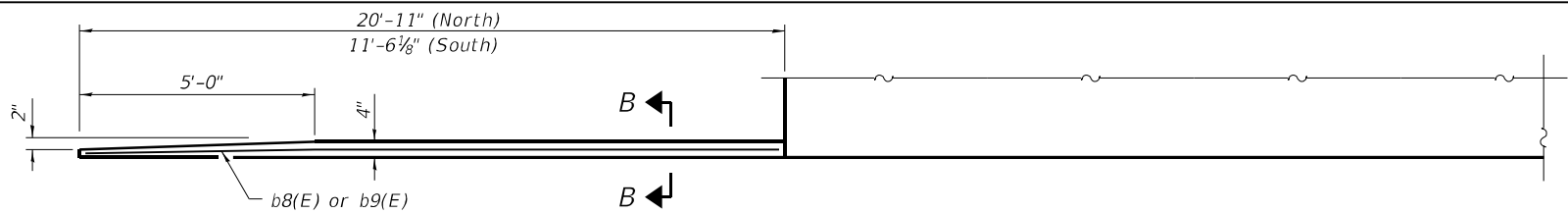
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PLOT DATE =	DRAWN - JSR	REVISED -
	CHECKED - RO	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WEST APPROACH SLAB
 STRUCTURE NO. 016-2757**

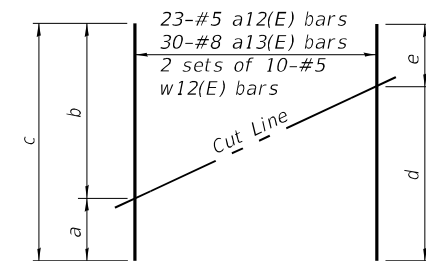
SHEET S10 OF S38 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	87
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				



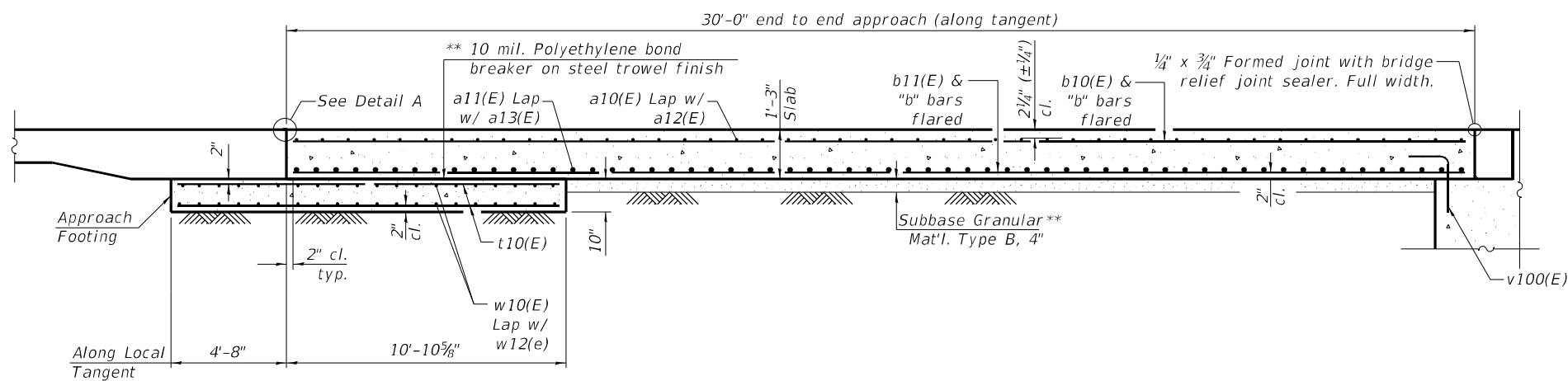
INSIDE ELEVATION OF PARAPET AND CURB

Notes:
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.

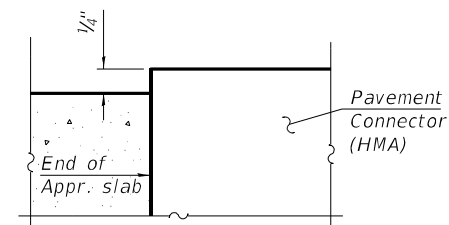


Bar	a	b	c	d	e
a12(E)	70'-10"	32'-2"	38'-8"	35'-4"	35'-6"
a13(E)	73'-8"	33'-8"	40'-0"	36'-9 1/2"	36'-10 1/2"
w12(E)	76'-4"	36'-8"	39'-8"	38'-1"	38'-3"

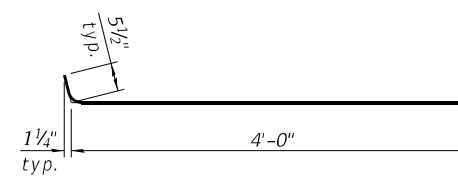
FIELD CUTTING DIAGRAM



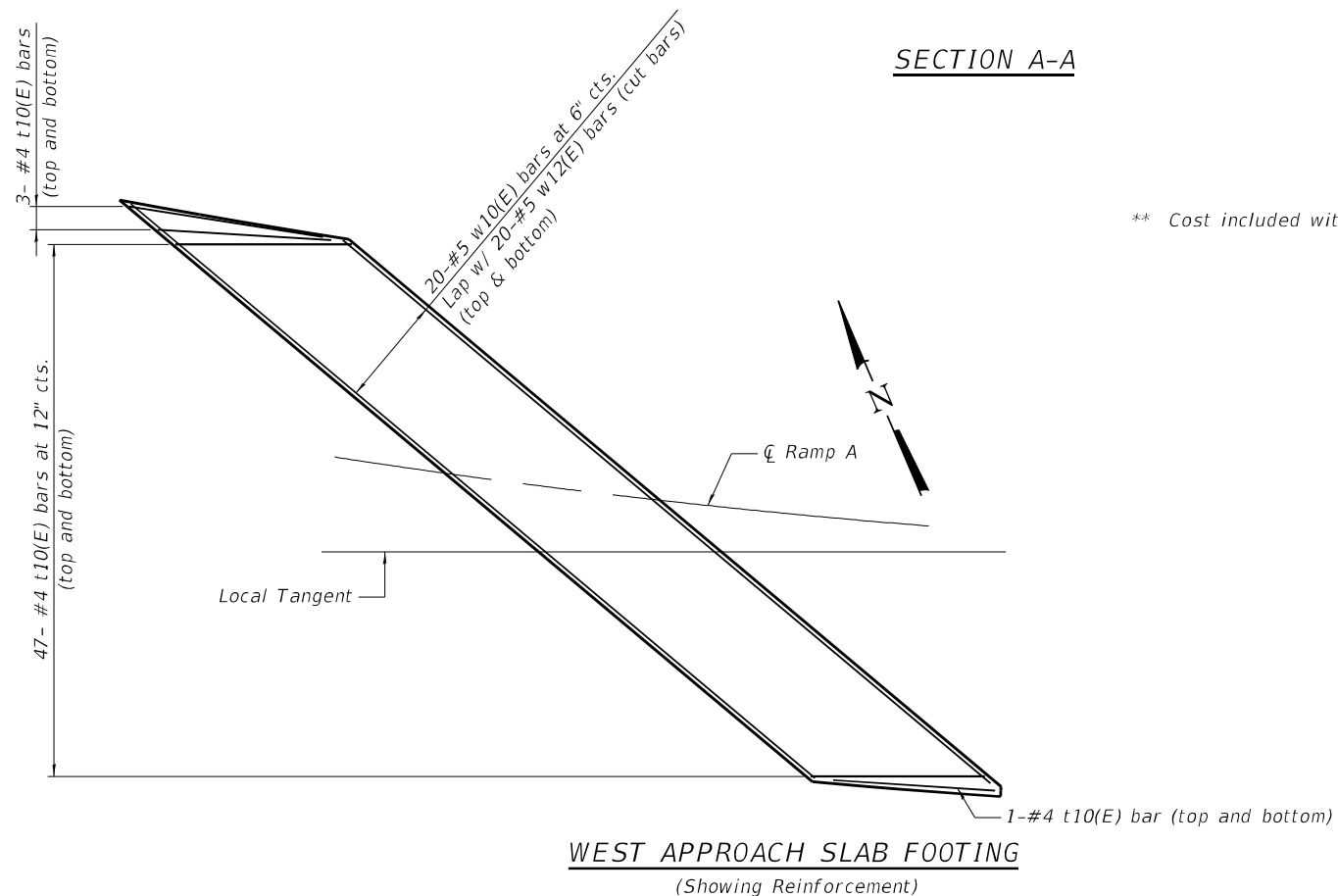
SECTION A-A



DETAIL A

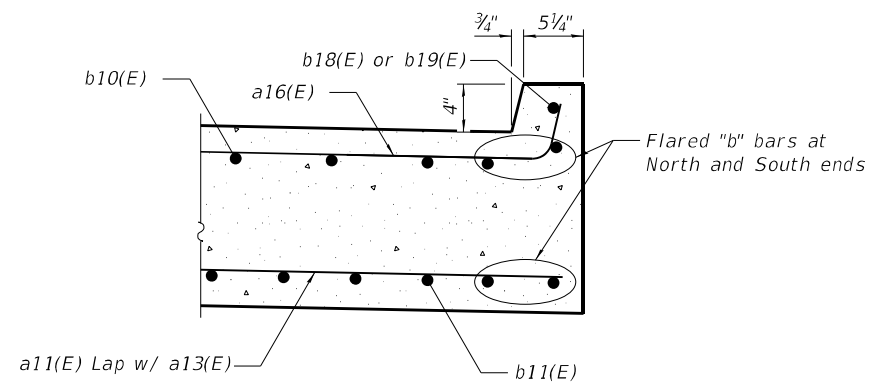


BAR a16(E)



WEST APPROACH SLAB FOOTING

(Showing Reinforcement)



SECTION B-B

** Cost included with Concrete Superstructure (Approach Slab)

WEST APPROACH BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	46	#5	40'-0"	—
a11(E)	60	#8	40'-0"	—
a12(E)	23	#5	70'-10"	—
a13(E)	30	#8	73'-8"	—
a16(E)	53	#5	4'-6"	—
b10(E)	64	#5	29'-6"	—
b11(E)	102	#9	29'-6"	—
b12(E)	4	#5	27'-6"	—
b13(E)	7	#9	27'-6"	—
b14(E)	7	#5	17'-6"	—
b15(E)	10	#9	17'-6"	—
b16(E)	1	#5	9'-0"	—
b17(E)	2	#9	9'-0"	—
b18(E)	1	#5	21'-6"	—
b19(E)	1	#5	11'-9"	—
t10(E)	102	#4	15'-0"	—
w10(E)	40	#5	40'-0"	—
w12(E)	20	#5	76'-4"	—
Concrete Superstructure (Approach Slab)			Cu. Yd.	64.7
Concrete Structures			Cu. Yd.	23.2
Reinforcement Bars, Epoxy Coated			Pound	34,270

* See Bar Cutting Diagram

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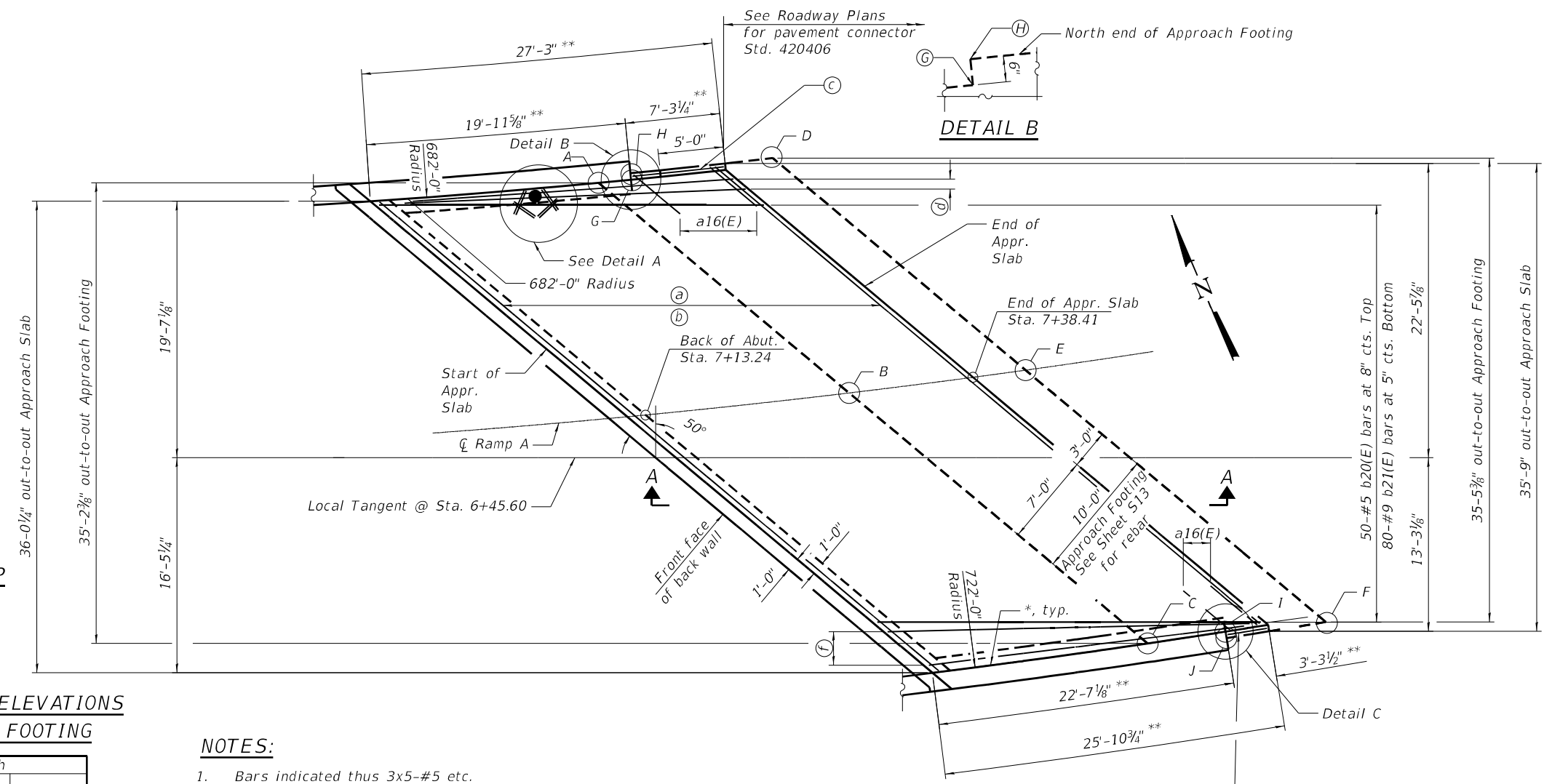
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WEST APPROACH SLAB DETAILS
 STRUCTURE NO. 016-2757

SHEET 511 OF 538 SHEETS

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 88
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K60	

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MINIMUM BAR LAP
 #4 = 2'-5"
 #5 = 3'-4"
 #8 = 4'-9"

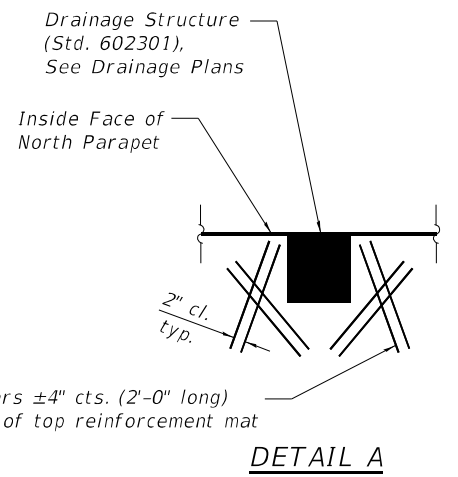
TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Approach		
Point/Location	Top	Bottom
A -	615.52	614.69
B -	616.66	615.83
C -	618.03	617.20
D -	615.69	614.85
E -	616.85	616.01
F -	618.24	617.40
G -	615.56	614.73
H -	615.53	614.70
I -	618.11	617.28
J -	618.14	617.30

NOTES:
 1. Bars indicated thus 3x5-#5 etc. indicates 3 lines of bars with 5 lengths per line.

* 1/2" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typ. each parapet.
 ** Measured along inside face of parapet/curb

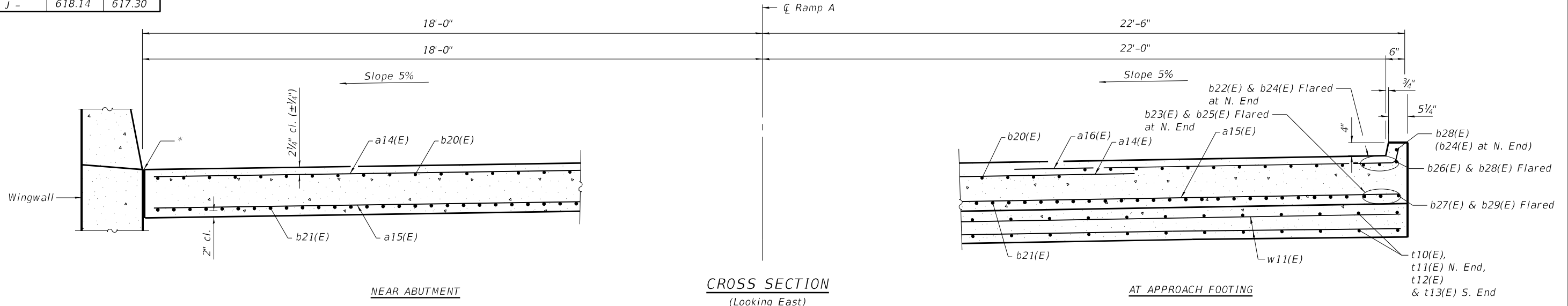
- (a) 45x2-#5 a14(E) bars at 8" cts, Top
- (b) 60x2-#8 a15(E) bars at 6" cts, Bottom
- (c) 1-#5 b24(E) Top
2-#9 b25(E) Bottom
1-#5 b24(E) bar in curb
11-#5 a16(E) bars Top
Bend to fit taper (see cross section)
- (d) 3-#5 b22(E) bars, Top (flared)
5-#9 b23(E) bars, Bottom (flared)
Cut as necessary to go around drainage structure
- (e) 1-#5 b28(E) Top
1-#9 b28(E) Bottom
1-#5 b28(E) bar in curb
6-#5 a16(E) Top
Bend to fit taper (see cross section)
- (f) 5-#5 b26(E) Top (flared)
8-#9 b27(E) Bottom (flared)



PLAN

DETAIL C

DETAIL A



**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST APPROACH SLAB
 STRUCTURE NO. 016-2757**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	89
CONTRACT NO. 62K60				

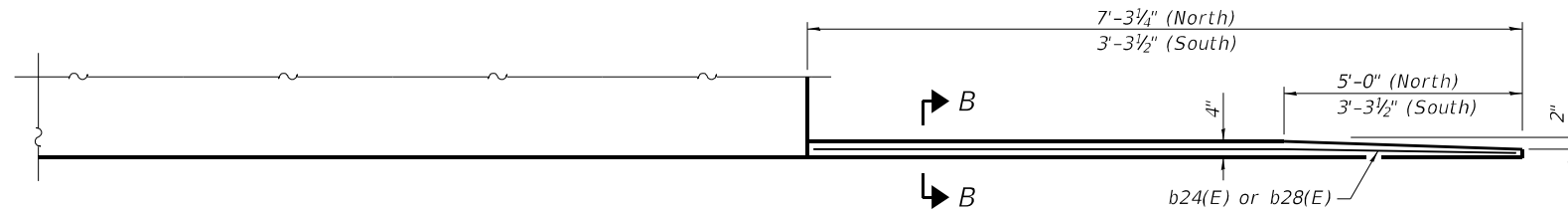
**gk GARZA KARHOFF
 ENGINEERING, LLC**

USER NAME =	DESIGNED - JSR	REVISED -
PLOT SCALE =	CHECKED - RO	REVISED -
PLOT DATE =	DRAWN - JSR	REVISED -
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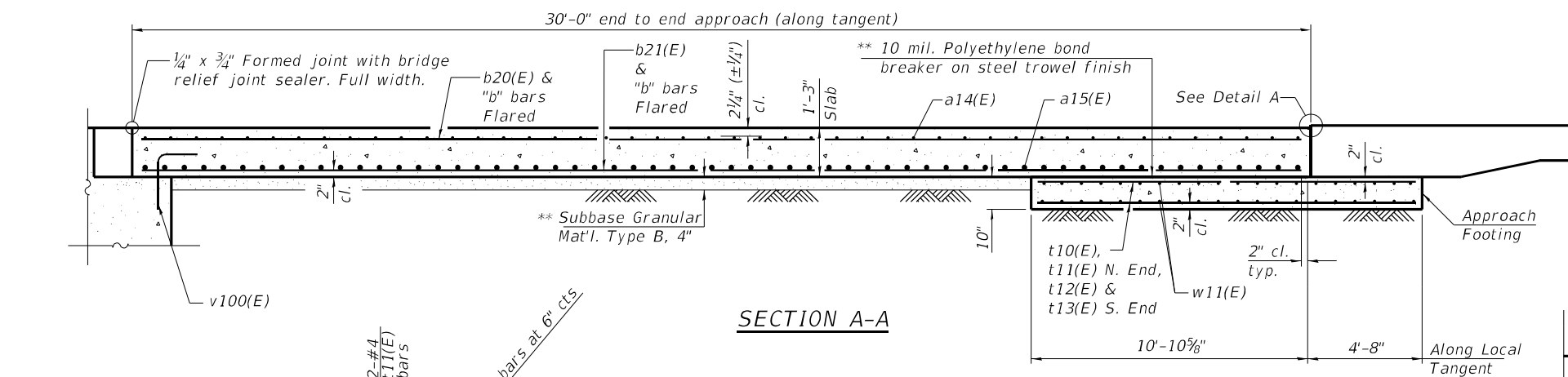
SHEET 512 OF 538 SHEETS

ILLINOIS FED. AID PROJECT

Notes:
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.

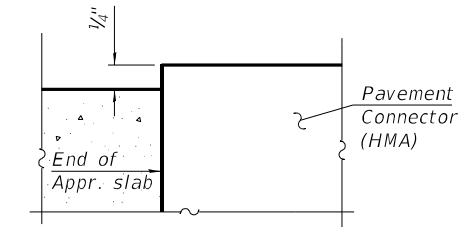


INSIDE ELEVATION OF PARAPET AND CURB

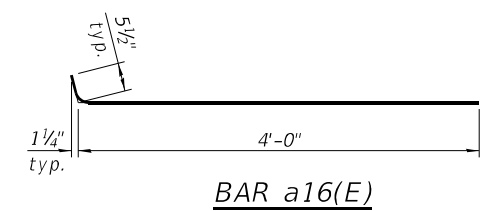


SECTION A-A

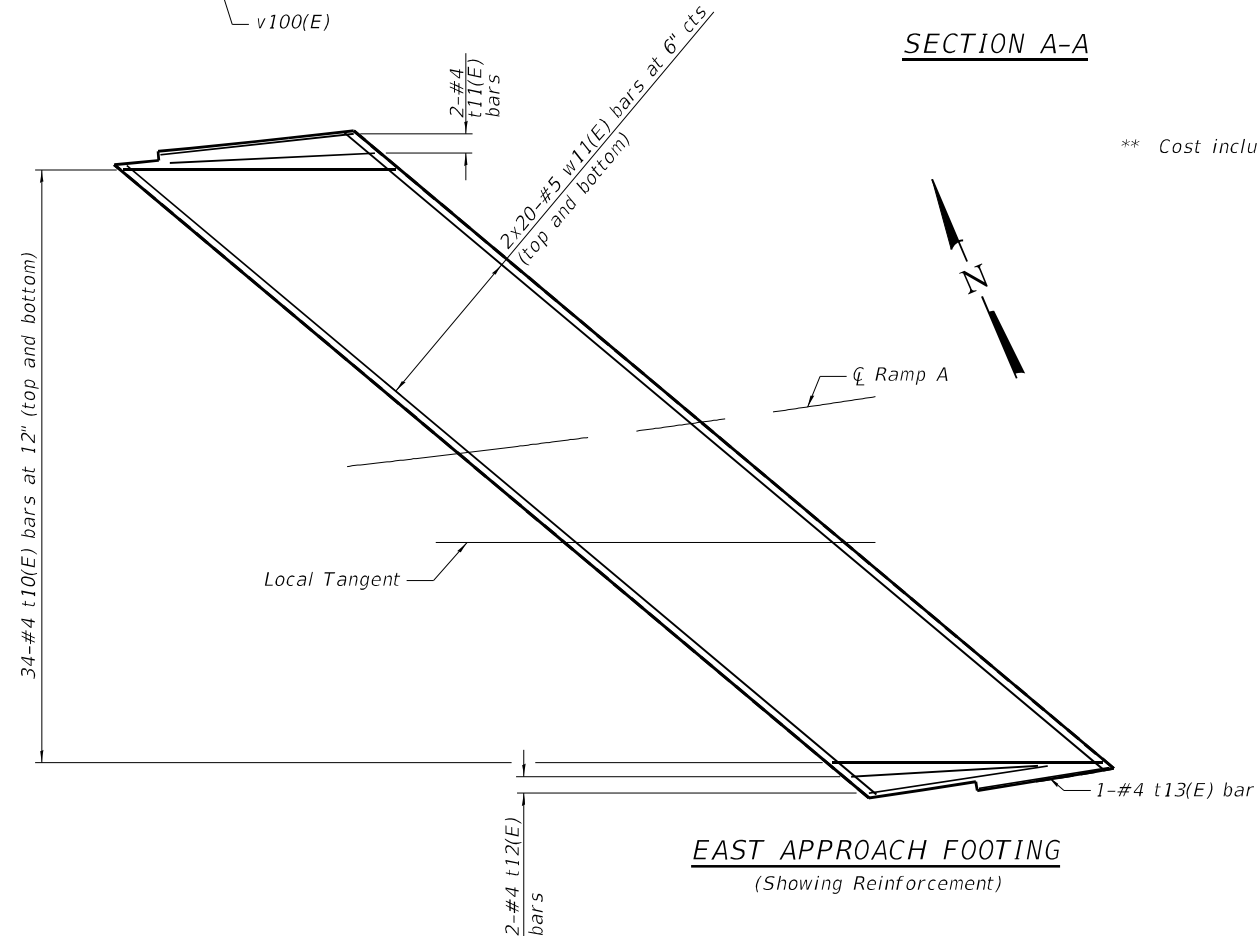
** Cost included with Concrete Superstructure (Approach Slab)



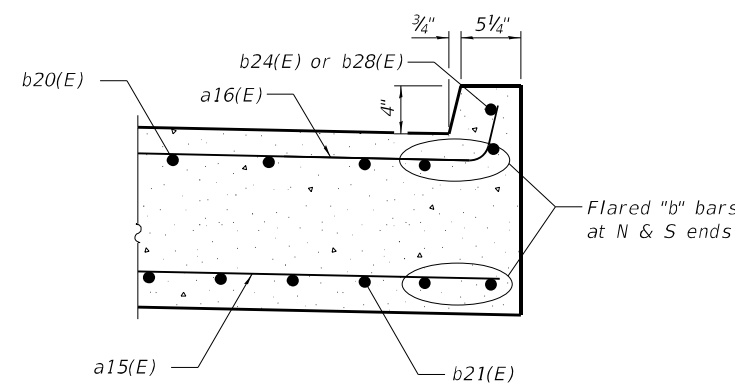
DETAIL A



BAR a16(E)



**EAST APPROACH FOOTING
 (Showing Reinforcement)**



SECTION B-B

**EAST APPROACH
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a14(E)	90	#5	29'-6"	—
a15(E)	120	#8	30'-2"	—
a16(E)	17	#5	4'-6"	—
a30(E)	8	#5	2'-0"	—
b20(E)	50	#5	29'-6"	—
b21(E)	80	#9	29'-6"	—
b22(E)	3	#5	24'-0"	—
b23(E)	5	#9	24'-0"	—
b24(E)	2	#5	6'-9"	—
b25(E)	2	#9	6'-9"	—
b26(E)	5	#5	21'-0"	—
b27(E)	8	#9	21'-0"	—
b28(E)	2	#5	3'-3"	—
b29(E)	1	#9	3'-3"	—
t10(E)	68	#4	15'-0"	—
t11(E)	4	#4	10'-8"	—
t12(E)	4	#4	10'-2"	—
t13(E)	2	#4	7'-2"	—
w11(E)	80	#5	29'-0"	—
Concrete Superstructure (Approach Slab)			Cu. Yd.	49.4
Concrete Structures			Cu. Yd.	17.0
Reinforcement Bars, Epoxy Coated			Pound	26,510

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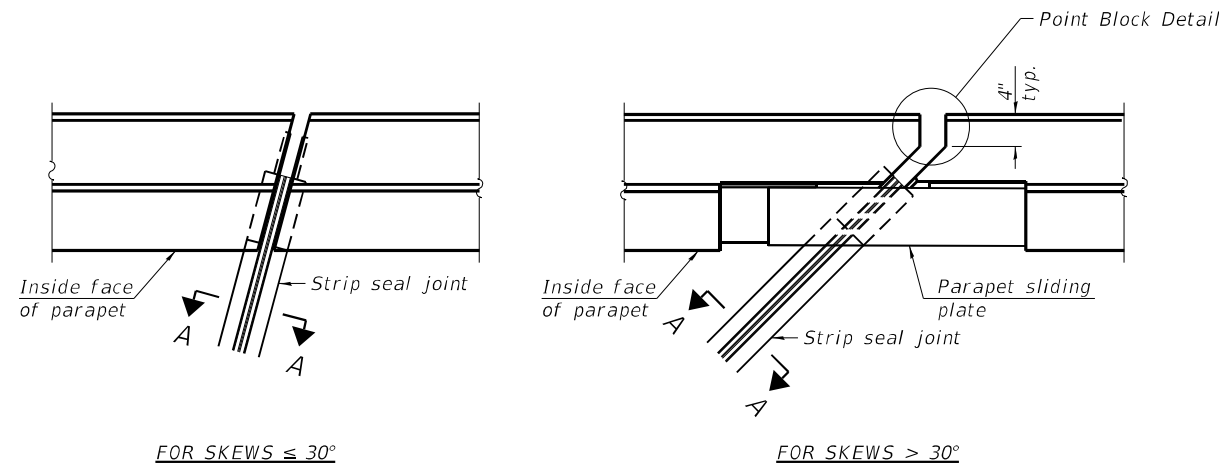
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EAST APPROACH SLAB DETAILS
 STRUCTURE NO. 016-2757

SHEET 513 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	90
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K60	

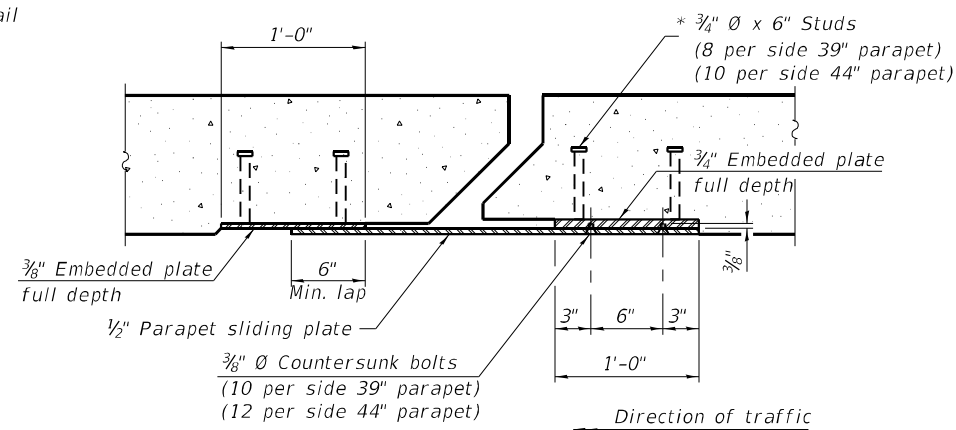
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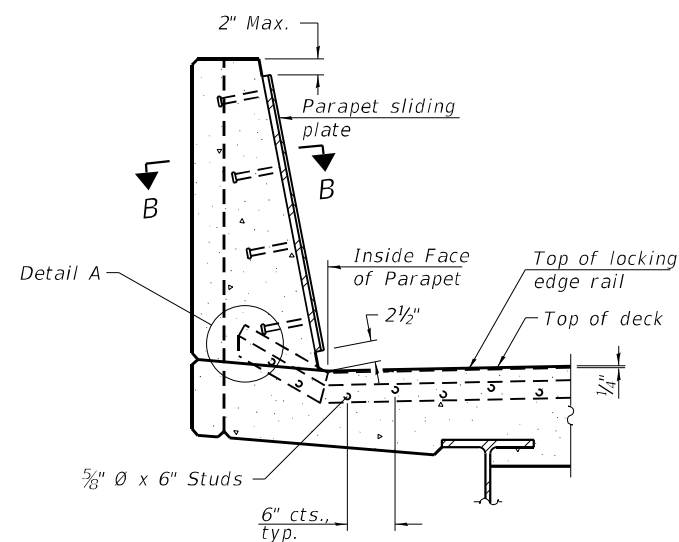
FOR SKEWS $\leq 30^\circ$

PLAN AT PARAPET

FOR SKEWS $> 30^\circ$

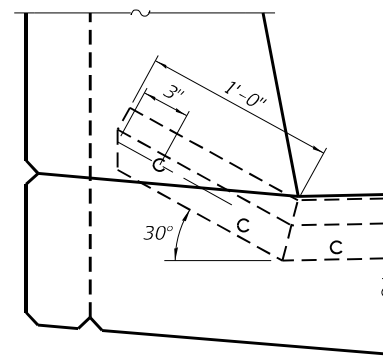


SECTION B-B

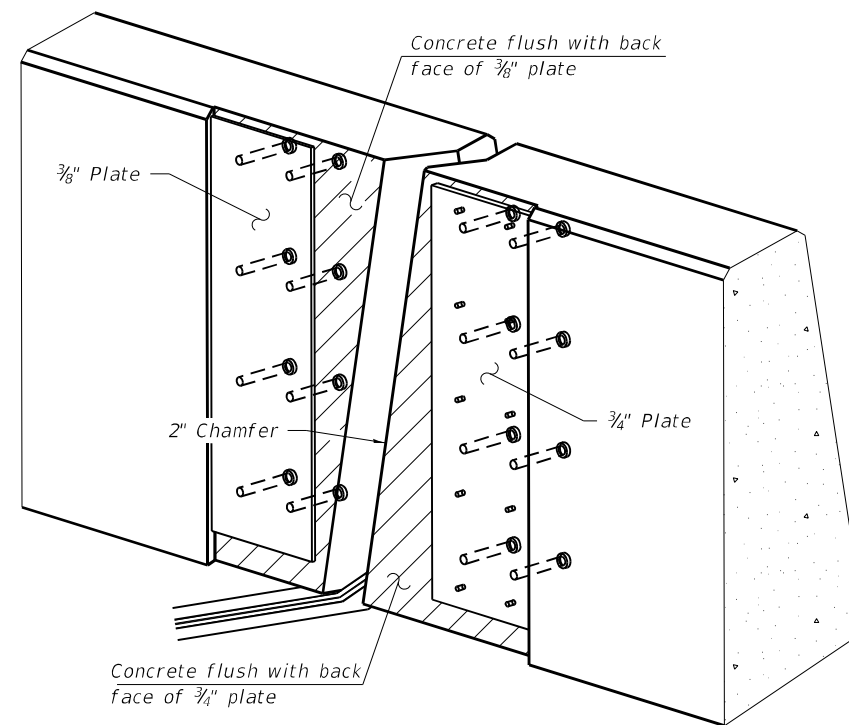


SECTION AT PARAPET

(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)

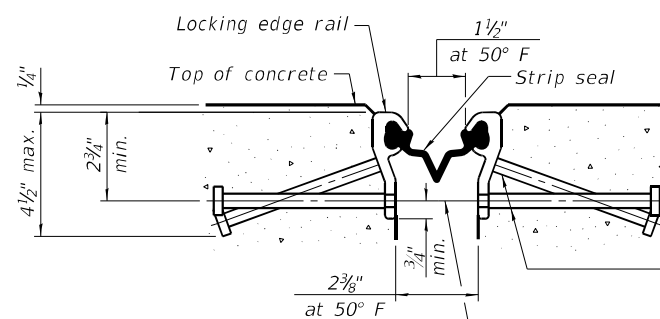


DETAIL A



TRIMETRIC VIEW

(Showing embedded plates only)



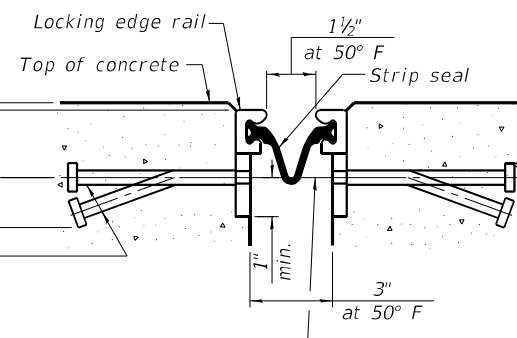
SHOWING ROLLED RAIL JOINT

* $5/8$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

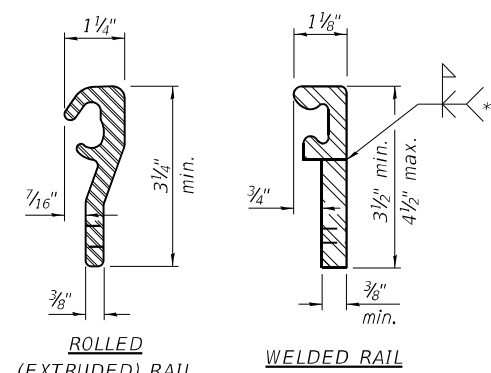
$3/8$ " ϕ threaded rods in $1/16$ " ϕ holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

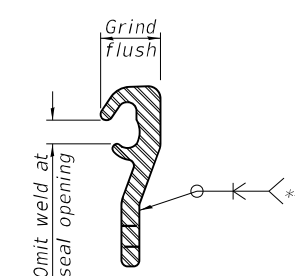


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	135

EJ-SS

1-1-2020



USER NAME =	DESIGNED - JSR	REVISED -
PLOT SCALE =	CHECKED - RO	REVISED -
PLOT DATE =	DRAWN - JSR	REVISED -
	CHECKED - RO	REVISED -

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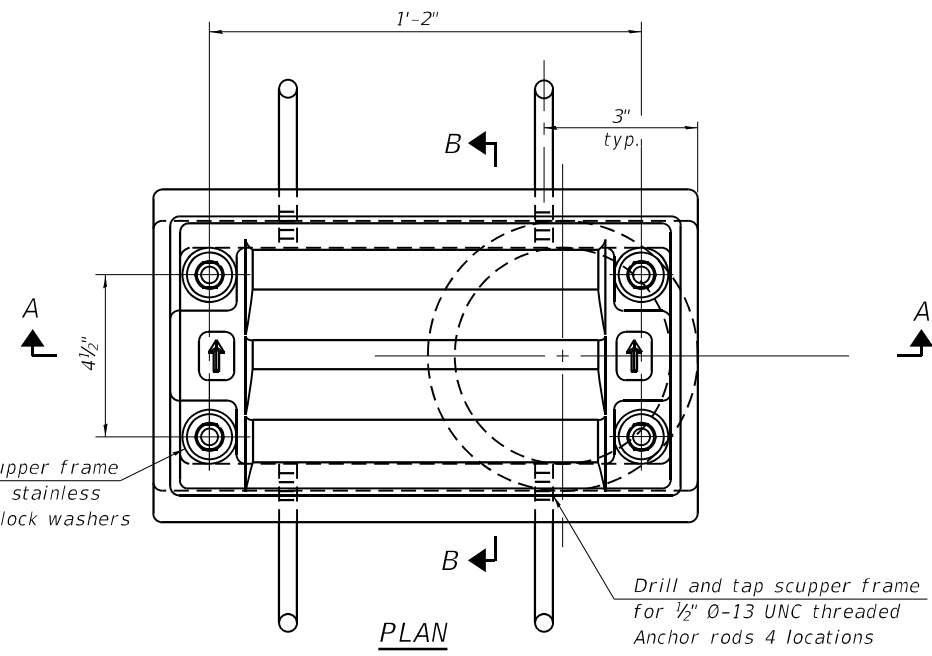
PREFORMED JOINT STRIP SEAL
 STRUCTURE NO. 016-2757

SHEET 514 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	91
ILLINOIS			FED. AID PROJECT	

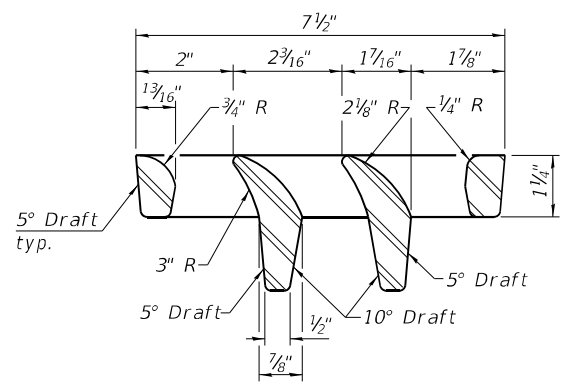
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Drill and tap scupper frame for 1/2" Ø-13 UNC stainless steel bolts with lock washers 4 locations

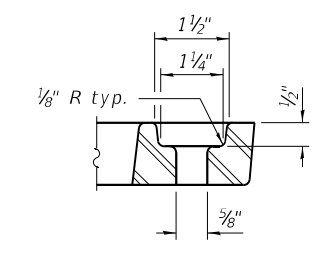


PLAN

Drill and tap scupper frame for 1/2" Ø-13 UNC threaded Anchor rods 4 locations

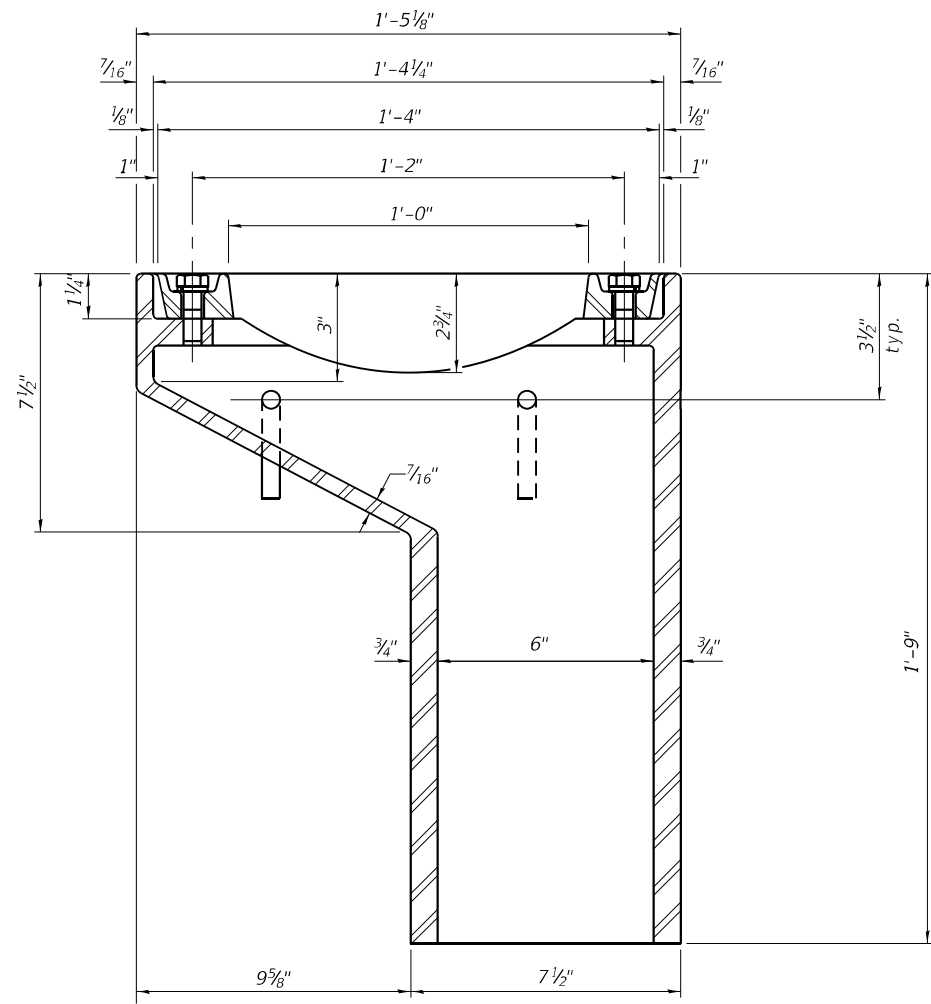


VANE GRATE DETAIL



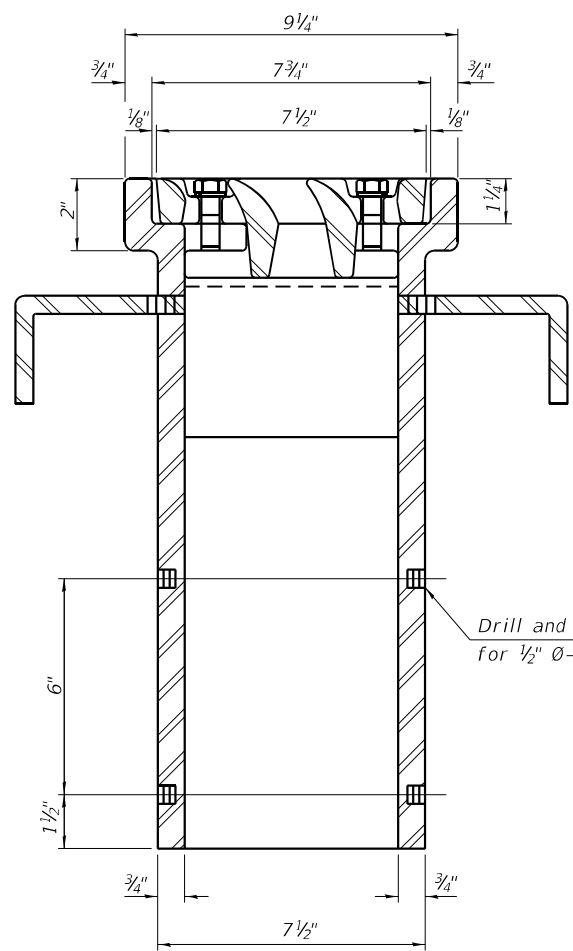
GRATE BOLT HOLE DETAIL

Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.
 Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.
 Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.
 Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.
 As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.
 Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be pigmented or painted to match the color of the adjacent beam.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scupper, DS-11.



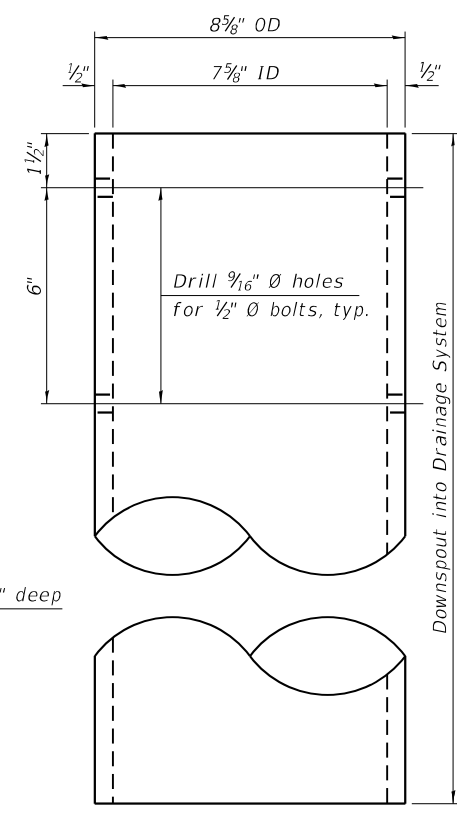
SECTION A-A

See sheet S8 of S38 for scupper location relative to parapet.



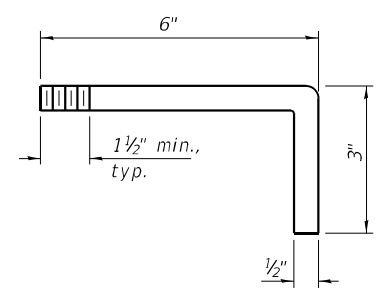
SECTION B-B

Drill and tap 4 holes 1/2" deep for 1/2" Ø-13 UNC bolts.



DOWNSPOUT

Downspout into Drainage System See Sheet S2 of S38



ANCHOR ROD DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	1

DS-11

1-1-2020



USER NAME =	DESIGNED - JSR	REVISED -
PLOT SCALE =	CHECKED - RO	REVISED -
PLOT DATE =	DRAWN - JSR	REVISED -
	CHECKED - RO	REVISED -

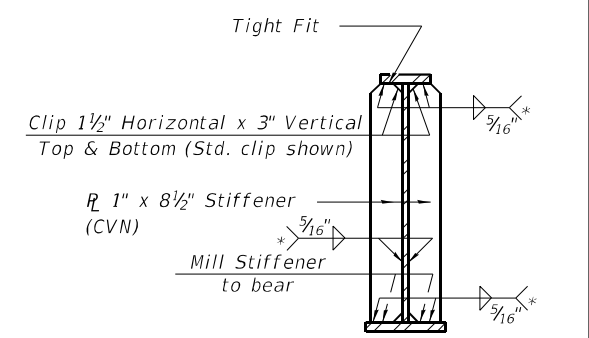
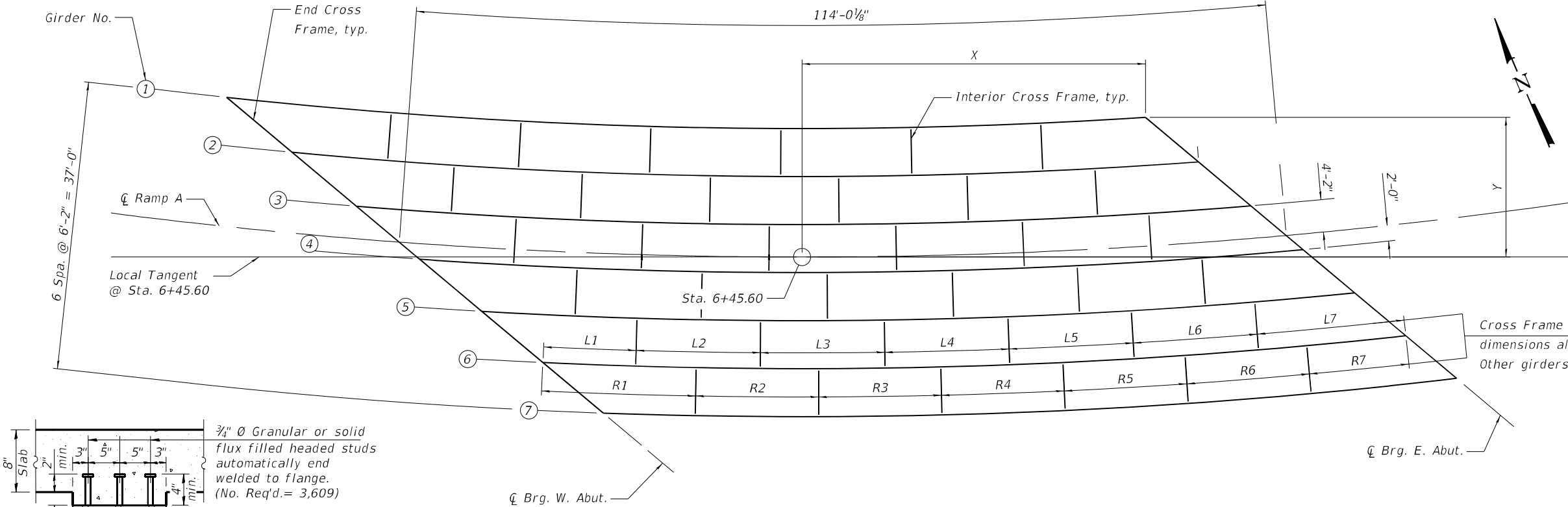
STATE OF ILLINOIS
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DRAINAGE SCUPPER, DS-11
 STRUCTURE NO. 016-2757

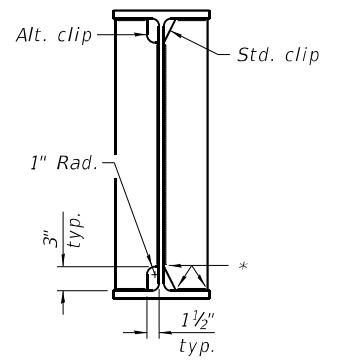
SHEET 515 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	92
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K60	

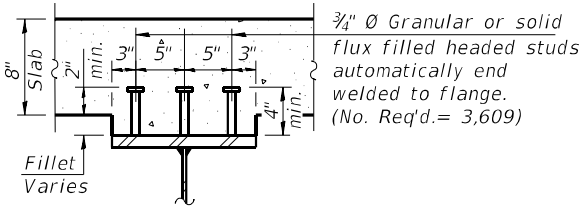
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SECTION AT ABUTMENT
 (Bearing and Jacking Stiffener)
 * Terminate 1/4" (±1/8") from the end of plate intersects.



WELD LIMITS AND CLIP DETAILS
 * Stop welds 1/4" (±1/8") from edges as shown. Typical.



SECTION A-A

3/4" Ø Granular or solid flux filled headed studs automatically end welded to flange. (No. Req'd. = 3,609)

FRAMING PLAN

CROSS FRAME LOCATION DIMENSIONS

Girder	L1	L2	L3	L4	L5	L6	L7	R1	R2	R3	R4	R5	R6	R7
1	-	-	-	-	-	-	-	21'-2 3/4"	16'-8 1/4"	16'-8 1/4"	16'-8 1/4"	16'-8 1/4"	16'-8 1/4"	13'-5 7/8"
2	12'-3 1/2"	16'-10"	16'-10"	16'-10"	16'-10"	16'-10"	20'-0 3/8"	20'-10 1/2"	16'-5 1/2"	16'-5 1/2"	16'-5 1/2"	16'-5 1/2"	16'-5 1/2"	13'-3 7/8"
3	12'-2 1/4"	16'-7 1/4"	16'-7 1/4"	16'-7 1/4"	16'-7 1/4"	16'-7 1/4"	19'-9"	20'-6 5/8"	16'-3"	16'-3"	16'-3"	16'-3"	16'-3"	13'-2"
4	12'-1 1/8"	16'-4 3/4"	16'-4 3/4"	16'-4 3/4"	16'-4 3/4"	16'-4 3/4"	19'-5 3/4"	20'-3"	16'-0 5/8"	16'-0 5/8"	16'-0 5/8"	16'-0 5/8"	16'-0 5/8"	13'-0 3/8"
5	12'-0"	16'-2 3/8"	16'-2 3/8"	16'-2 3/8"	16'-2 3/8"	16'-2 3/8"	19'-2 3/4"	19'-11 1/2"	15'-10 1/2"	15'-10 1/2"	15'-10 1/2"	15'-10 1/2"	15'-10 1/2"	12'-10 3/4"
6	11'-11"	16'-0 1/8"	16'-0 1/8"	16'-0 1/8"	16'-0 1/8"	16'-0 1/8"	18'-11 7/8"	19'-8 3/8"	15'-8 3/8"	15'-8 3/8"	15'-8 3/8"	15'-8 3/8"	15'-8 3/8"	12'-9 1/4"
7	11'-10"	15'-10"	15'-10"	15'-10"	15'-10"	15'-10"	18'-9 1/8"	-	-	-	-	-	-	-

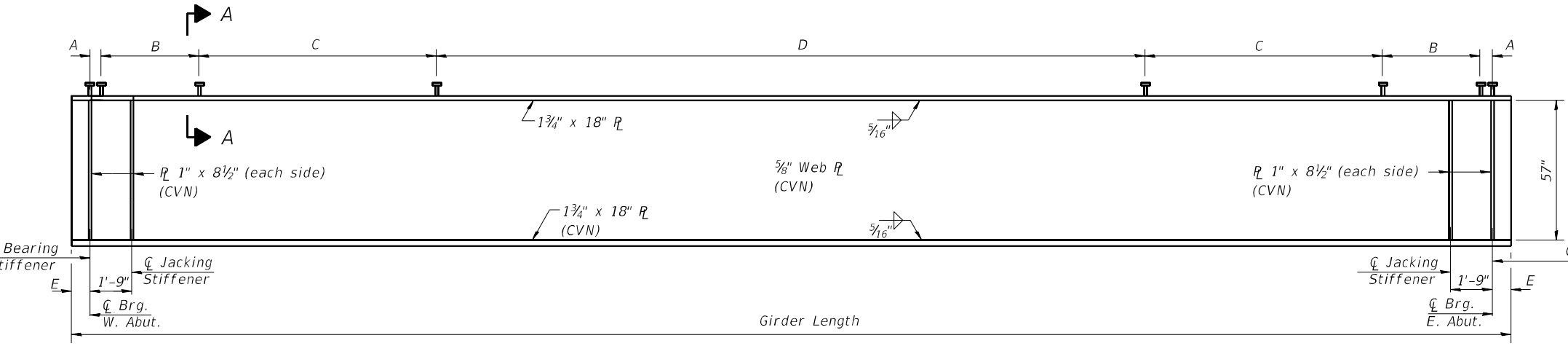
GIRDER SHEAR STUD SPACING

Girder	E	A	B	C	D
1	12"	7 7/8"	16 spa. @ 6" = 8'-0"	-	121 spa. @ 10" = 100'-10"
2	12"	6 1/8"	29 spa. @ 5" = 12'-1"	-	137 spa. @ 8" = 91'-4"
3	12"	5 7/8"	14 spa. @ 6" = 7'-0"	30 spa. @ 9" = 22'-6"	66 spa. @ 10" = 55'-0"
4	12"	3 1/4"	14 spa. @ 5" = 5'-10"	-	152 spa. @ 8" = 101'-4"
5	12"	6 3/8"	12 spa. @ 6" = 6'-0"	-	119 spa. @ 10" = 99'-2"
6	12"	3 3/4"	14 spa. @ 4" = 4'-8"	14 spa. @ 7" = 8'-2"	127 spa. @ 8" = 84'-8"
7	12"	5 5/8"	14 spa. @ 5" = 5'-10"	49 spa. @ 7" = 28'-7"	48 spa. @ 10" = 40'-0"

GIRDER LAYOUT DIMENSIONS

(All Dimensions in Feet)

Girder	Radius	Length	C Brg. W. Abut.		C Brg. E. Abut.	
			X	Y	X	Y
1	683'-6"	120'-1 3/4"	-73'-10 7/16"	20'-6 1/16"	44'-1 3/16"	17'-11 1/16"
2	689'-8"	118'-6 1/8"	-65'-5 1/2"	13'-5 3/8"	50'-10 7/8"	12'-2 3/16"
3	695'-10"	116'-11 3/4"	-57'-2 7/16"	6'-6 1/4"	57'-7 3/4"	6'-6 1/16"
4	702'-0"	115'-6 5/8"	-49'-1 3/16"	-0'-3 3/8"	64'-3 3/8"	0'-11 7/16"
5	708'-2"	114'-2 3/8"	-41'-1 1/2"	-6'-11 1/16"	70'-11 3/8"	-4'-7 1/4"
6	714'-4"	112'-11 1/2"	-33'-3 3/16"	-13'-6 1/16"	77'-6 3/16"	-10'-1 3/8"
7	720'-6"	111'-9 1/4"	-25'-6 1/2"	-20'-0 9/16"	84'-0 3/8"	-15'-7"



GIRDER ELEVATION

NOTES:

- Girder Spacing and Interior Cross Frame Orientations are Radial to the C of Ramp A.
- Girder dimensions, stiffener spacing, and stud spacings are given along centerline of girder.
- Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirement, Zone 2.



USER NAME =	DESIGNED - JSR	REVISED -
CHECKED - RO	REVISED -	
PLOT SCALE =	DRAWN - JSR	REVISED -
PLOT DATE =	CHECKED - RO	REVISED -

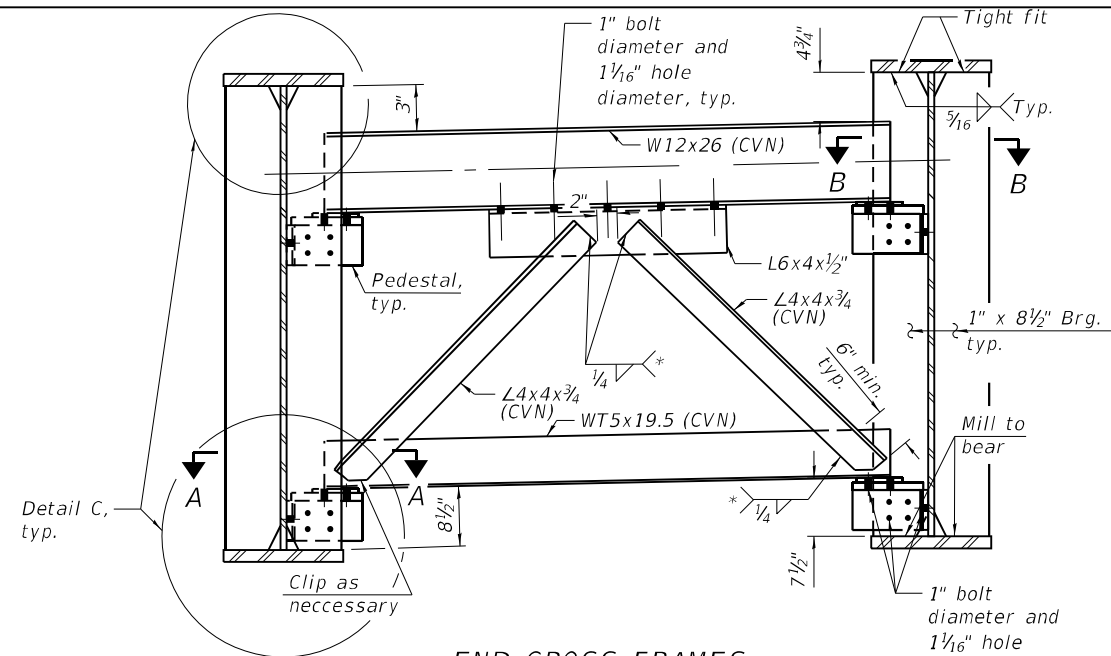
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN AND GIRDER ELEVATION
 STRUCTURE NO. 016-2757**

SHEET 516 OF 538 SHEETS

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 93
CONTRACT NO. 62K60			ILLINOIS FED. AID PROJECT	

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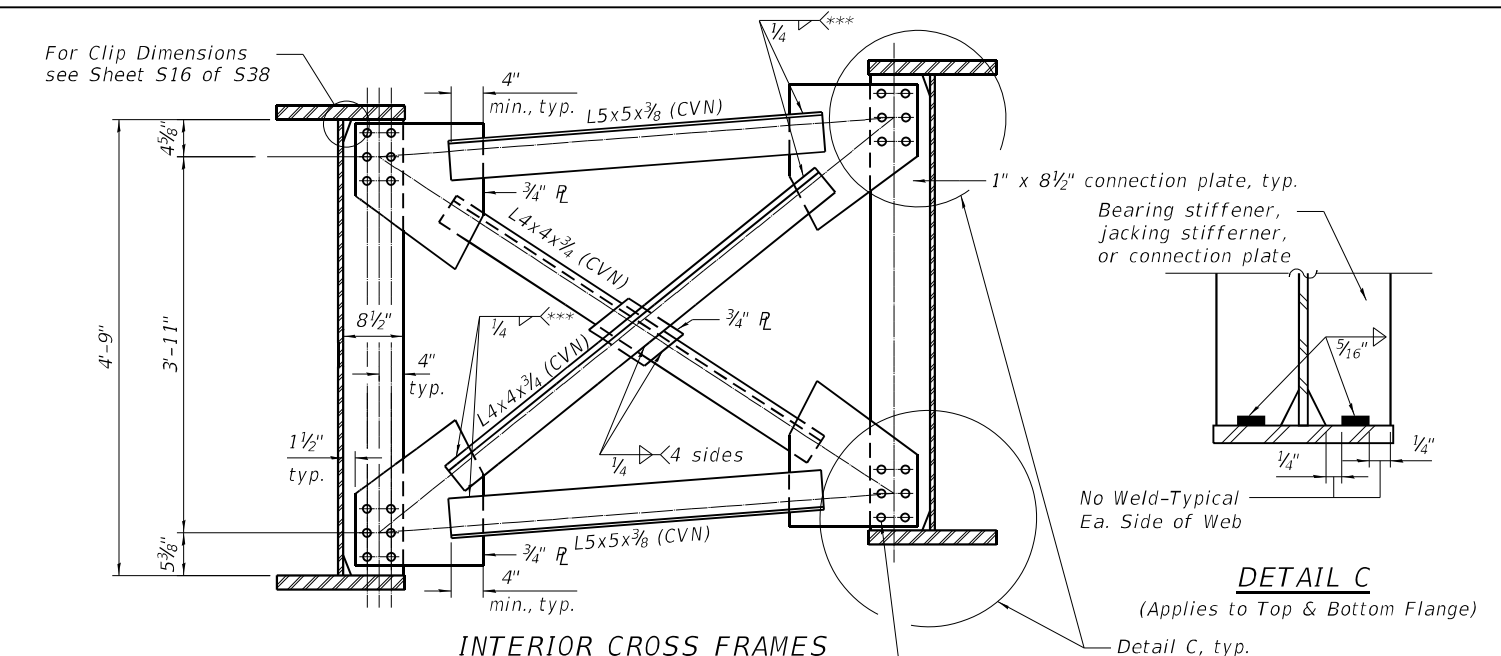
END CROSS FRAMES
 (Looking at East Abutment,
 View at West Abutment similar)
 (12 Required)
 *Weld angles along 3 sides to back face of shape.

GIRDER SPACINGS AT WEST ABUTMENT
 (Along centerline of bearing)

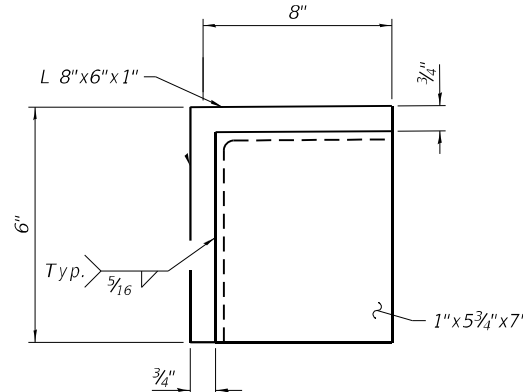
BAY	SPACING
1	10'-11 3/4"
2	10'-9 1/4"
3	10'-7"
4	10'-4 7/8"
5	10'-3"
6	10'-1 1/8"

GIRDER SPACINGS AT EAST ABUTMENT
 (Along centerline of bearing)

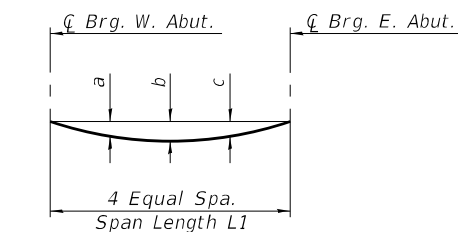
BAY	SPACING
1	8'-10 5/8"
2	8'-9 3/8"
3	8'-8 3/8"
4	8'-7 3/4"
5	8'-6 7/8"
6	8'-6 1/8"



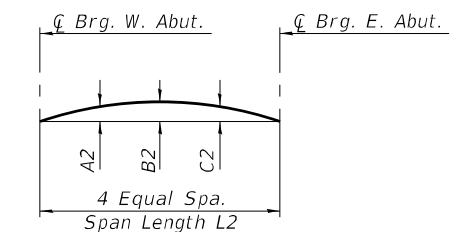
INTERIOR CROSS FRAMES
 (Looking Upstation)
 (36 Required)
 ***Fillet weld angles along 3 sides on one face of gusset plate.



PEDESTAL ELEVATION



DEFLECTION DIAGRAM
 (Steel self weight only)



CAMBER DIAGRAM

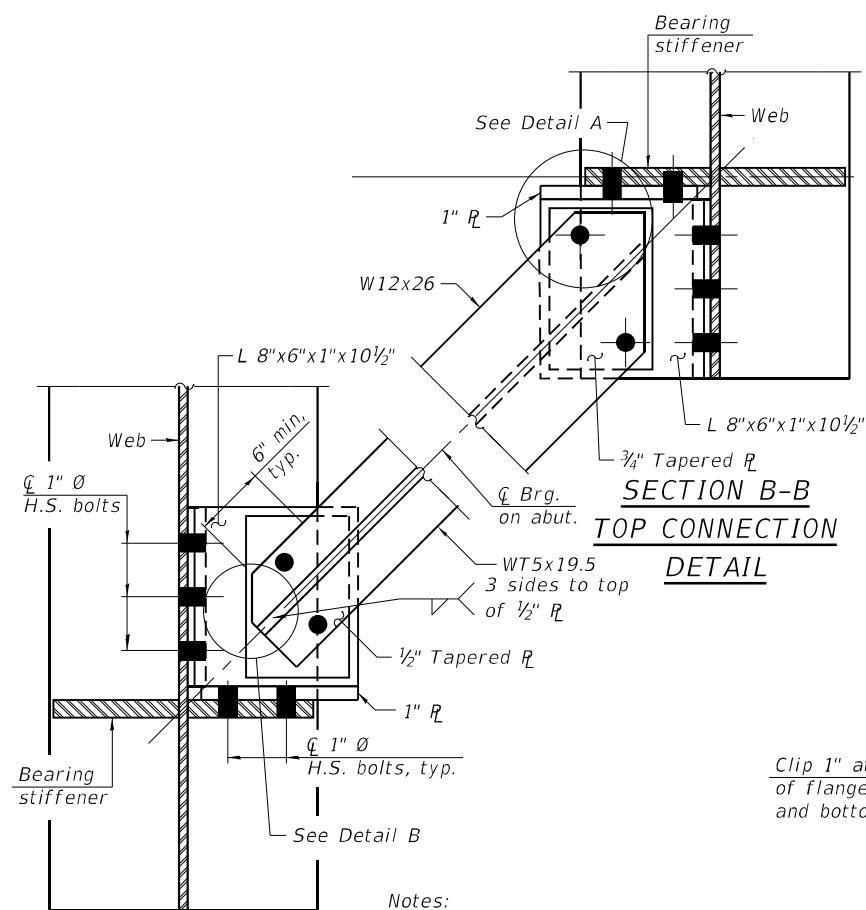
GIRDER DEFLECTION TABLE FOR CROSS FRAMES

GIRDER NO.	L1	**a	**b	**c
1	118'-1 3/4"	1/2"	3/4"	1/2"
2	116'-6 1/8"	1/2"	3/4"	9/16"
3	114'-11 3/4"	1/2"	3/4"	1/2"
4	113'-6 3/8"	1/2"	3/4"	1/2"
5	112'-2 3/8"	1/2"	3/4"	1/2"
6	110'-11 1/2"	5/8"	7/8"	5/8"
7	109'-9 1/4"	5/8"	7/8"	5/8"

** Steel self weight deflection includes the weight of the stiffeners and cross frames

CAMBER TABLE

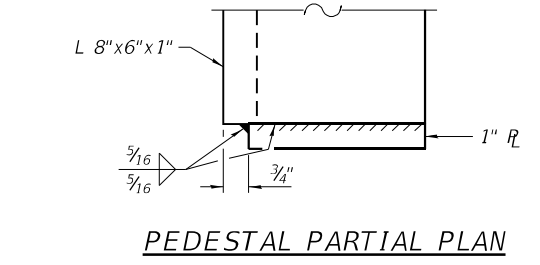
GIRDER NO.	L2	A2	B2	C2
1	118'-1 3/4"	4 3/8"	6"	4 1/2"
2	116'-6 1/8"	4 1/4"	5 3/4"	4 1/4"
3	114'-11 3/4"	4 1/8"	5 9/16"	4 1/8"
4	113'-6 3/8"	3 15/16"	5 3/8"	3 11/16"
5	112'-2 3/8"	3 7/8"	5 1/4"	3 3/4"
6	110'-11 1/2"	3 3/16"	5 3/16"	3 11/16"
7	109'-9 1/4"	2"	5 3/8"	3 3/8"



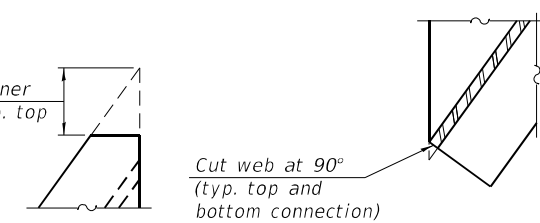
**SECTION A-A
 BOTTOM CONNECTION
 DETAIL**

**SECTION B-B
 TOP CONNECTION
 DETAIL**

Notes:
 Place bolts to maintain minimum 1 1/2" clearance between channel and edge of 1/2" R.



PEDESTAL PARTIAL PLAN



DETAIL A

DETAIL B

- Note:
- The calculated deflections of the primary girders under steel self-weight shall be used to detail the cross frames and to erect the structural steel such that the girders will be plumb within a tolerance of ±1/8" per vertical ft. throughout when supporting their own weight.
 - The Contractor shall either:
 - Ream cross frame connection holes during shop assembly or
 - Provide detailing and fabrication controls acceptable to the Engineer which ensures accuracy such that field reaming will not exceed the amount permitted in Article 505.08(l) of the Standard Specifications.
 - All cross frames between girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.

TOP OF WEB ELEVATIONS
 (For Fabrication Only)

GIRDER NO.	∅ Bearing W. Abut.	∅ Bearing E. Abut.
1	612.50	615.63
2	613.19	616.04
3	613.79	616.43
4	614.38	616.82
5	614.94	617.21
6	615.48	617.60
7	616.01	617.99

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GIRDER MOMENT TABLE (MIDSPAN)							
	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7
<i>I_s</i> (in ⁴)	64024	64024	64024	64024	64024	64024	64024
<i>I_c(n)</i> (in ⁴)	116087	116846	116840	116834	116829	116967	116089
<i>I_c(3n)</i> (in ⁴)	88670	89182	89178	82261	89170	89264	88671
<i>S_s</i> (in ³)	2117	2117	2117	2117	2117	2117	2116
<i>S_c(n)</i> (in ³)	2549	2553	2553	2553	2553	2554	2549
<i>S_c(3n)</i> (in ³)	2364	2368	2368	2368	2368	2369	2364
<i>S_xc</i> (in ³)	2443	2447	2448	2448	2442	2431	2408
<i>DC1</i> (k/ft)	1.122	1.053	1.053	1.053	1.053	1.053	1.152
<i>MDC1</i> (k)	1410	1418	1433	1446	1513	1661	1913
<i>DC2</i> (k/ft)	0.191	0.169	0.138	0.117	0.148	0.199	0.258
<i>MDC2</i> (k)	333	286	228	188	233	306	389
<i>DW</i> (k/ft)	0.285	0.285	0.285	0.285	0.285	0.285	0.285
<i>MDW</i> (k)	404	406	412	411	445	461	513
<i>M_l + iM</i> (k)	1771	1769	1673	1849	1993	1990	2315
<i>f_l</i> (Strength I) (ksi)	1.91	4.78	2.26	4.48	4.74	4.25	1.88
<i>Mu + 1/2 f_l S_xc</i> (k)	6014	6160	5776	6199	6659	6920	7824
<i>Øf Mn</i> (k)	-	-	-	-	-	-	-
<i>f_s DC1</i> (ksi)	7.99	8.04	8.12	8.20	8.58	9.42	10.85
<i>f_s DC2</i> (ksi)	1.69	1.45	1.16	0.95	1.18	1.55	1.97
<i>f_s DW</i> (ksi)	2.05	2.06	2.09	2.08	2.26	2.34	2.60
<i>f_s (l+IM)</i> (ksi)	8.34	8.31	7.86	8.69	9.37	9.35	10.90
<i>f_l</i> (Service II) (ksi)	1.36	4.51	1.91	3.88	4.23	3.78	1.84
<i>f_s + 1/2 (Service II)</i> (ksi)	23.25	24.61	22.54	24.47	26.31	27.35	30.52
<i>Service II Resistance</i> (ksi)	47.50	47.50	47.50	47.50	47.50	47.50	47.50
<i>f_s + 1/3 (Total)(Strength I)</i> (ksi)	30.22	31.00	29.13	31.06	33.38	34.83	39.62
<i>Øf Fn</i> (ksi)	50.00	50.00	50.00	50.00	50.00	50.00	50.00
<i>Vf</i> (k)	88.9	96.6	81.4	80.7	75.9	101.0	89.4

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing *f_s*(Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).

I_c(n), S_c(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing *f_s*(Total-Strength I, and Service II) in uncracked sections due to short term composite live loads (in.⁴ and in.³).

I_c(3n), S_c(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing *f_s*(Total-Strength I, and Service II) in uncracked sections due to long-term composite (superimposed) dead loads (in.⁴ and in.³).

I_c(cr), S_c(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing *f_s*(Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).

S_xc: Section modulus about the major axis of section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange (in.³).

DC1: Un-factored non-composite dead load (kips/ft.).

MDC1: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_l + iM: Un-factored live load moment plus dynamic load allowance (impact)(kip-ft.).

Mu (Strength I): Strength I load combination of factored design moments (kip-ft).
 1.25 (MDC1+ MDC2) + 1.5 MDW + 1.75 M_l + iM

f_l: Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and further simplified by IDOT provisions (ksi).

Øf Mn: Factored nominal flexural resistance of the section determined as specified in Article 6.10.7.1 or A6 applicable (kip-ft).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 MDC1 / S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 MDC2 / S_c(3n) or MDC2 / S_c(cr) as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 MDW / S_c(3n) or MDW / S_c(cr) as applicable.

f_s (l+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).
 M_l + iM / S_c(n) or M_l + iM / S_c(cr) as applicable.
 Sum of stresses as computed below (ksi).

f_s + 1/2 (Service II): *f_sDC1 + f_sDC2 + f_sDW + 1.3 f_s(l+IM) + f_l/2*

Service II Resistance: Composite (0.95RhRyf) or noncomposite (0.80RhFyf) stress capacity according to Article 6.10.4.2 (ksi).

f_s + 1/3 (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
 1.25 (f_sDC1 + f_sDC2) + 1.5 f_sDW + 1.75 f_s(l+IM) + f_l/3

Øf Fn: Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 applicable (ksi).

Vf: Maximum factored shear range in span computed according to Article 6.10.10.

Note:
M_l and *R_l* include the effects of centrifugal force and superelevation.

GIRDER REACTION TABLE (WEST ABUTMENT)							
	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7
<i>RDC1</i> (k)	56.4	62.5	63.8	64.7	65.0	65.0	84.7
<i>RDC2</i> (k)	17.7	12.9	7.3	3.0	0.8	1.7	24.3
<i>RDW</i> (k)	13.4	16.4	16.3	16.2	15.9	16.1	22.9
<i>R_l</i> (k)	37.5	79.7	81.0	80.0	80.4	80.4	107.6
<i>R_{Im}</i> (k)	9.3	19.7	19.9	19.8	19.8	19.9	26.5
<i>R_{Total} (Strength I)(Impact)</i> (k)	183.3	259.3	255.6	249.4	247.2	248.8	360.9
<i>R_{Total} (Strength I)(No Impact)</i> (k)	167.0	224.8	220.8	214.8	212.6	214.0	314.5

GIRDER REACTION TABLE (EAST ABUTMENT)							
	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7
<i>RDC1</i> (k)	60.6	55.9	55.5	55.8	59.7	68.4	76.1
<i>RDC2</i> (k)	20.9	1.3	0.1	1.9	6.1	12.1	20.9
<i>RDW</i> (k)	19.1	13.1	13.1	13.5	14.6	16.1	20.3
<i>R_l</i> (k)	92.7	75.9	69.8	72.5	78.7	91.1	61.2
<i>R_{Im}</i> (k)	22.8	18.7	17.3	24.2	19.5	22.5	15.1
<i>R_{Total} (Strength I)(Impact)</i> (k)	310.1	227.8	216.6	234.3	250.0	292.8	273.0
<i>R_{Total} (Strength I)(No Impact)</i> (k)	270.2	195.1	186.3	192.0	215.9	253.4	246.6

(Sheet 2 of 2)



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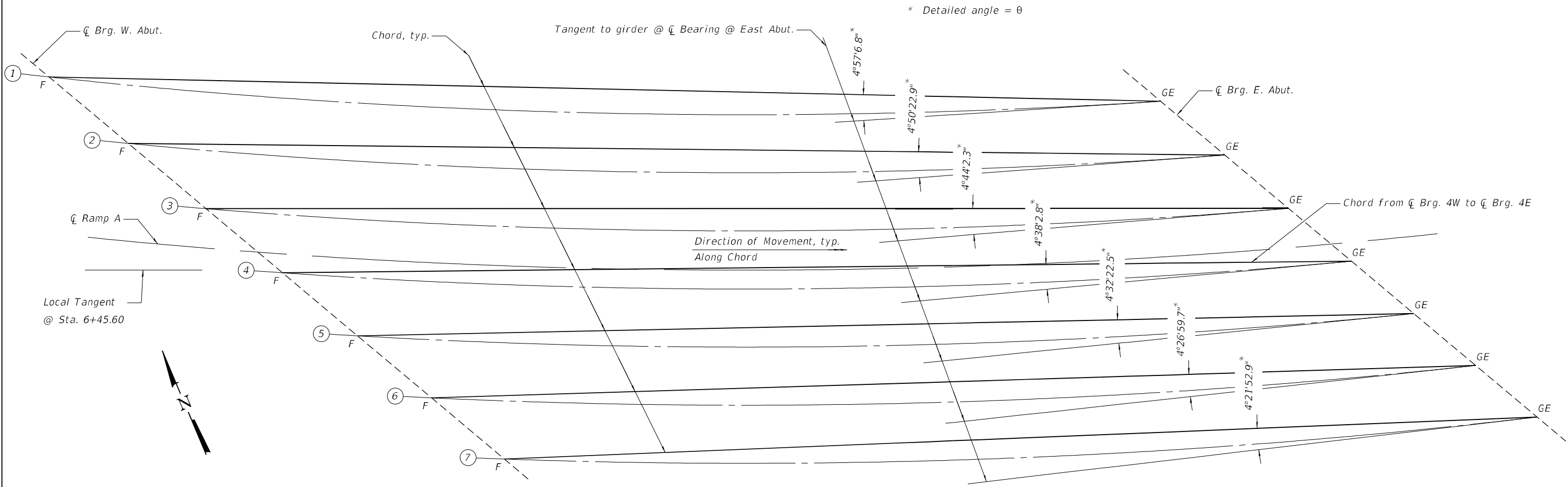
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
 STRUCTURE NO. 016-2757

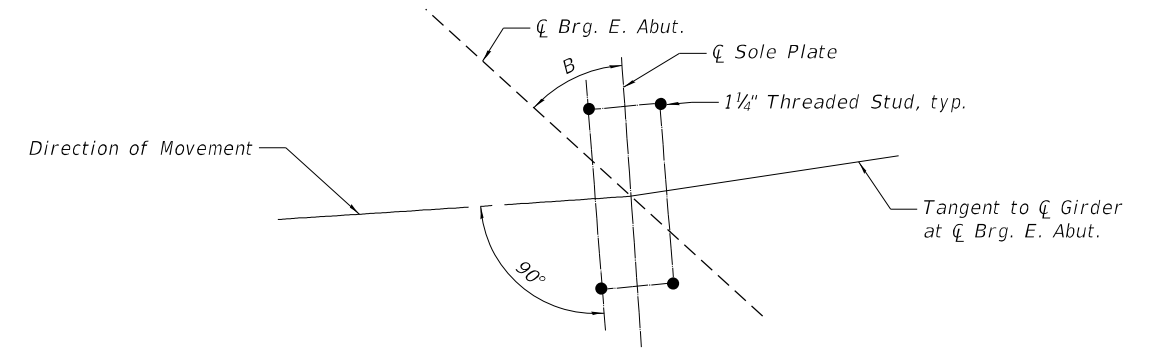
SHEET 518 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS			CONTRACT NO. 62K60	
FED. AID PROJECT				

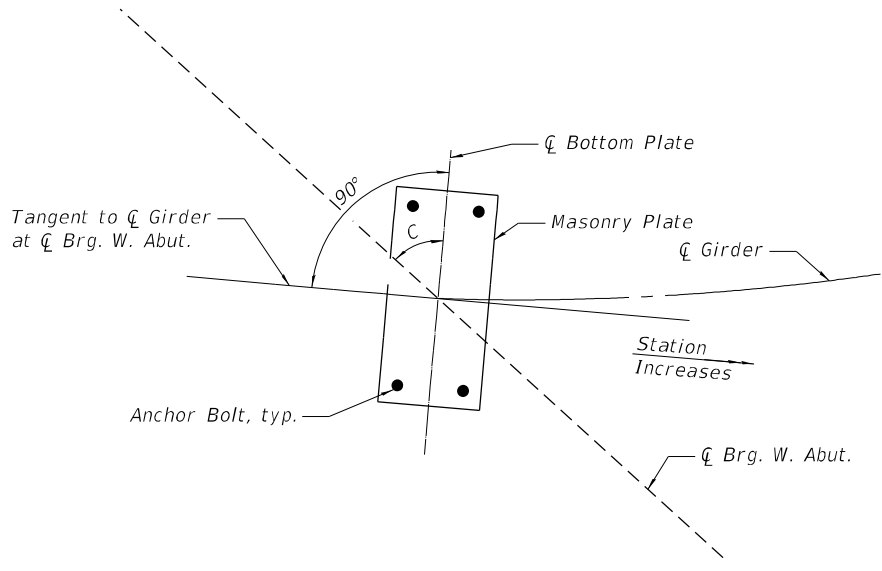
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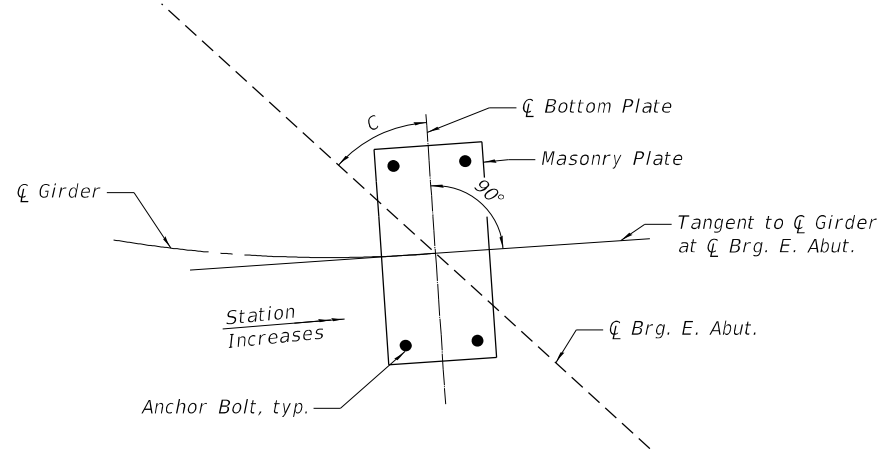
PLAN



BEARING ORIENTATION



ANCHOR BOLT ARRANGEMENT
 (WEST ABUTMENT)
 (See S22 of S38 for Anchor bolt layout)



ANCHOR BOLT ARRANGEMENT
 (EAST ABUTMENT)
 (See S25 of S38 for Anchor bolt layout)

BEARING ORIENTATION ANGLES

Girder	E. Abutment	W. Abutment	E. Abutment
	B	C	C
1	51°15'10.0"	56°12'16.9"	46°18'3.2"
2	50°36'25.4"	55°26'48.2"	45°46'2.5"
3	49°58'55.8"	54°42'58.0"	45°14'53.5"
4	49°22'36.7"	54°00'39.5"	44°44'33.9"
5	48°47'23.9"	53°19'46.3"	44°15'1.4"
6	48°13'13.4"	52°40'13.1"	43°46'13.7"
7	47°40'2.0"	52°01'54.9"	43°18'9.1"



USER NAME =	DESIGNED - JSR	REVISED -
PLOT SCALE =	CHECKED - RO	REVISED -
PLOT DATE =	DRAWN - JSR	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
 STRUCTURE NO. 016-2757

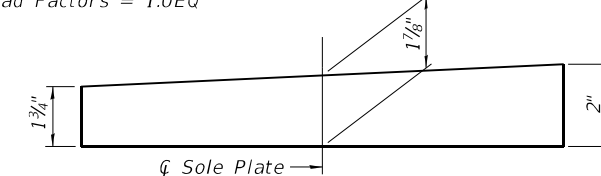
SHEET 519 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	96
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K60	

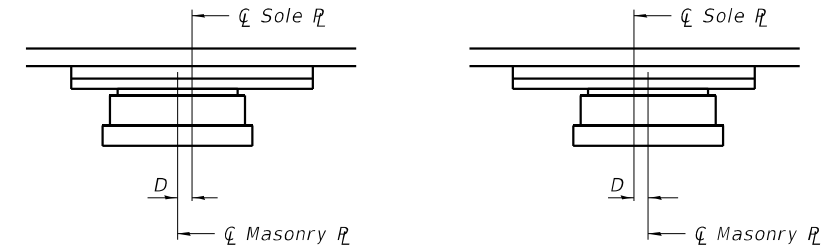
DESIGN DATA

	Unit	
Unfactored Vertical Dead Load Reaction (R_{DC})	kips	81.5
Unfactored Vertical Wearing Surface Reaction (R_{DW})	kips	19.0
Unfactored Vertical Live Load without Impact Reaction (R_{LL})	kips	92.7
Maximum Strength or Extreme Event Lateral Reaction (H_u)	kips	223.3
Maximum Strength Limit State Rotation (θ_u according to Article 14.4.2.2)	rad	0.036
Unfactored Design Thermal Movement from 50° F (ΔT)	in.	1.77
Service I Factored Lateral Reaction	kips	73.7
Service I Factored Vertical Uplift	kips	0.0
Service I Rotation	rad	0.017
Strength I Factored Longitudinal Movement	in.	2.10
Service I Factored Vertical Reaction	kips	193.2
Strength I Factored Vertical Reaction	kips	310.1

Service I Load Factors = 1.0DC + 1.0DW + 1.00LL
 Strength I Load Factors = 1.25DC + 1.5DW + 1.75LL + 1.2TU
 Extreme Event Load Factors = 1.0EQ



Stations Increase →
*****SOLE PLATE THICKNESS DIMENSIONS**



BELOW 50°F.
 (Move masonry plate away from fixed bearing)

ABOVE 50°F.
 (Move masonry plate toward fixed bearing)

SETTING ANCHOR BOLTS AT EXPANSION BEARING

$D = \frac{1}{8}$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.

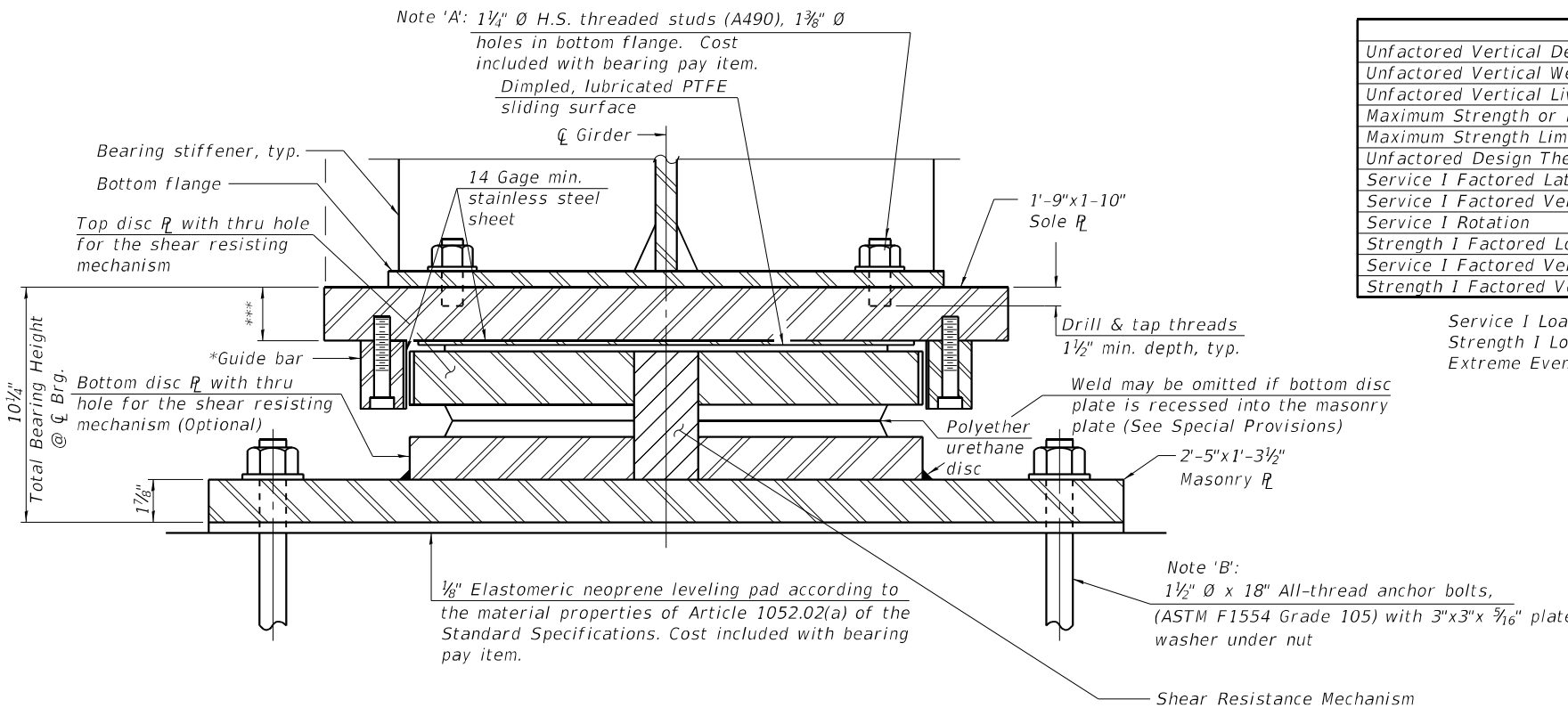
NOTES:

- Total bearing height is estimated based on manufacturer data. Actual bearing height may differ from contract plans. The Contractor shall be responsible for verifying bearing heights and adjusting seat elevations, if required, prior to placing pier or abutment concrete.
- The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.

BILL OF MATERIAL

Item	Unit	Total
** High Load Multi-Rotational Bearings, Disc, Guided Expansion-300K	Each	7
Anchor Bolts, 1 1/2"	Each	28

** The value specified in the pay item name is an approximate vertical load capacity that is used for letting and bidding purposes only. Exact bearing capacity will vary subject to final design.

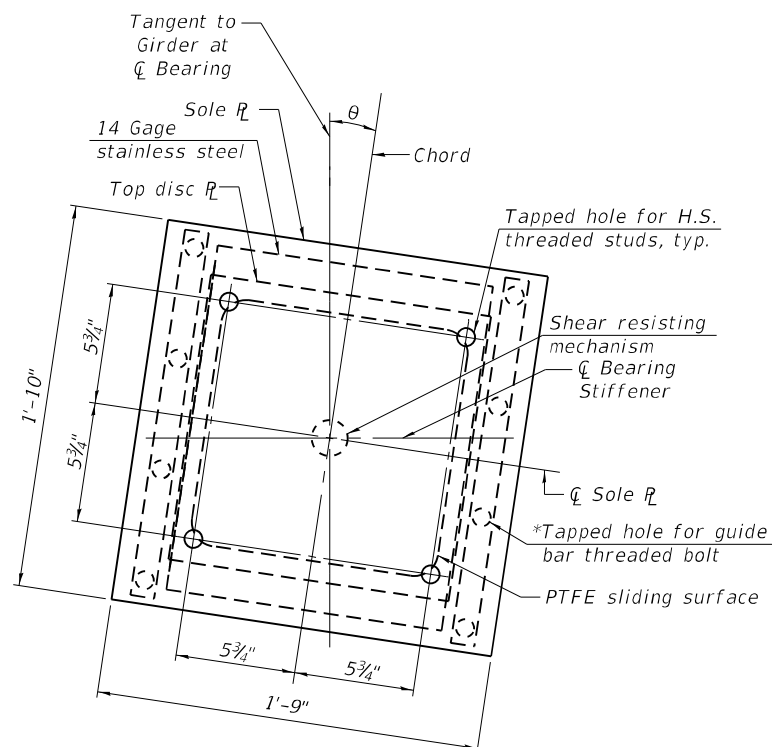


SECTION THRU BEARING

Note 'B':
 1 1/2" ϕ x 18" All-thread anchor bolts, (ASTM F1554 Grade 105) with 3" x 3" x 3/16" plate washer under nut

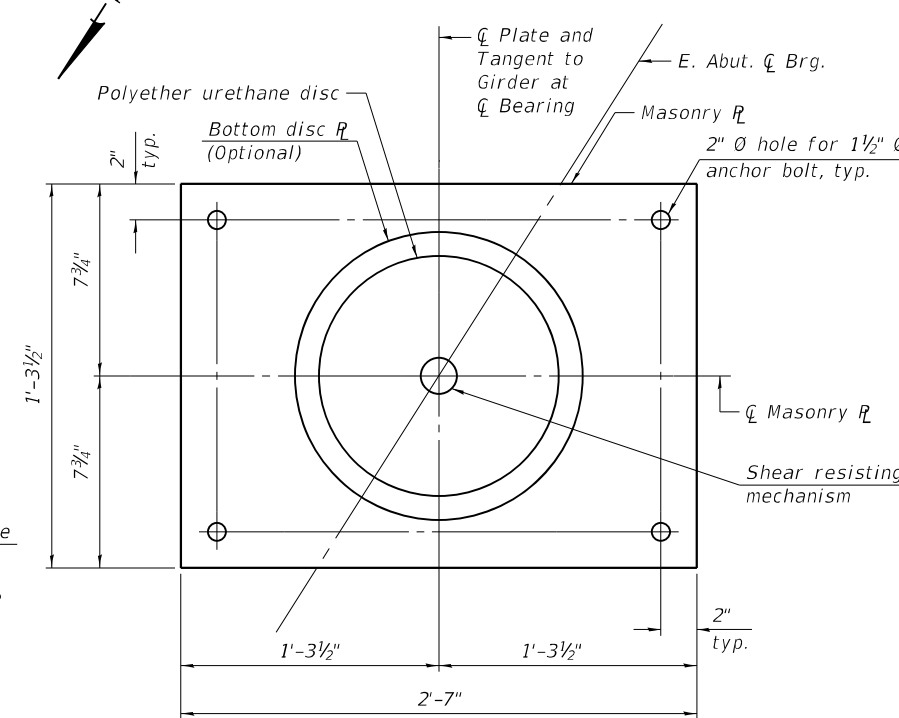
Shear Resistance Mechanism

*As alternates to the bolted connection shown, the guide bars may be connected to the sole plate by groove welds or the guide bars and sole plate may be fabricated as a single piece.



SOLE PLATE AND TOP DISC PLATE PLAN

Note: For θ See Bearing Details Sheet S19



MASONRY PLATE AND BOTTOM DISC PLATE PLAN

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

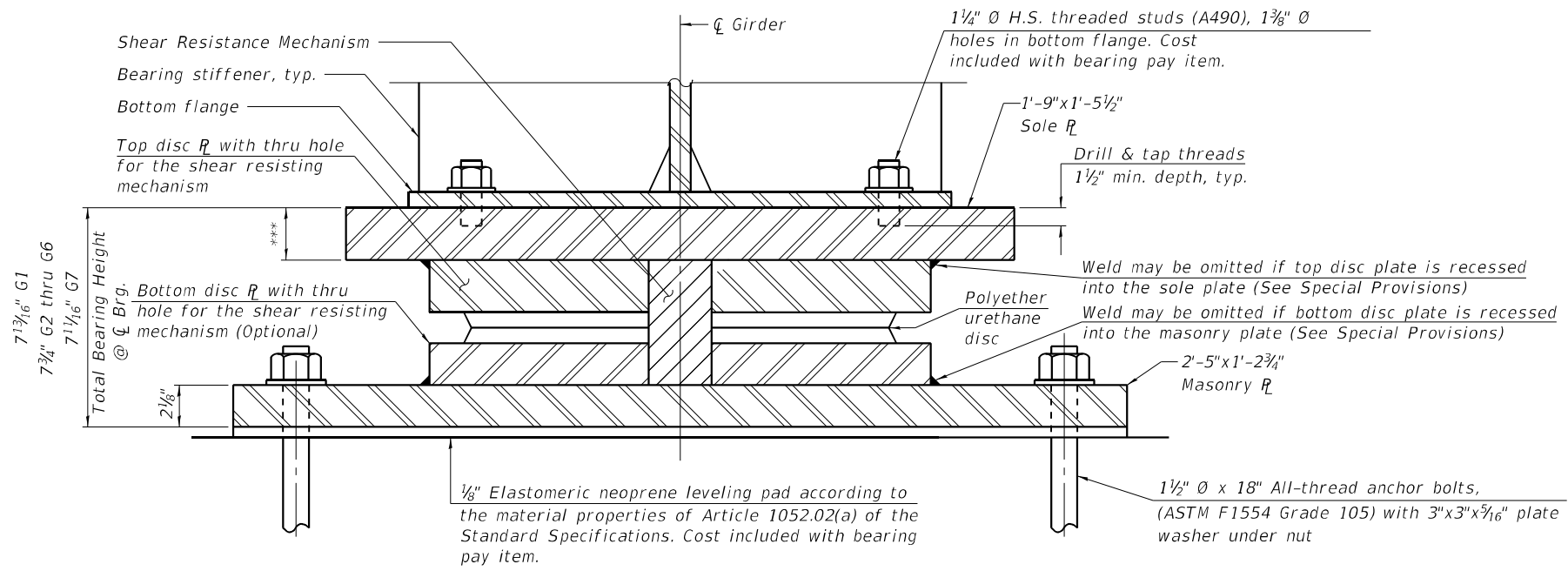
GUIDED EXPANSION HLMR DISC BEARING DETAILS
 STRUCTURE NO. 016-2757

SHEET 520 OF 538 SHEETS

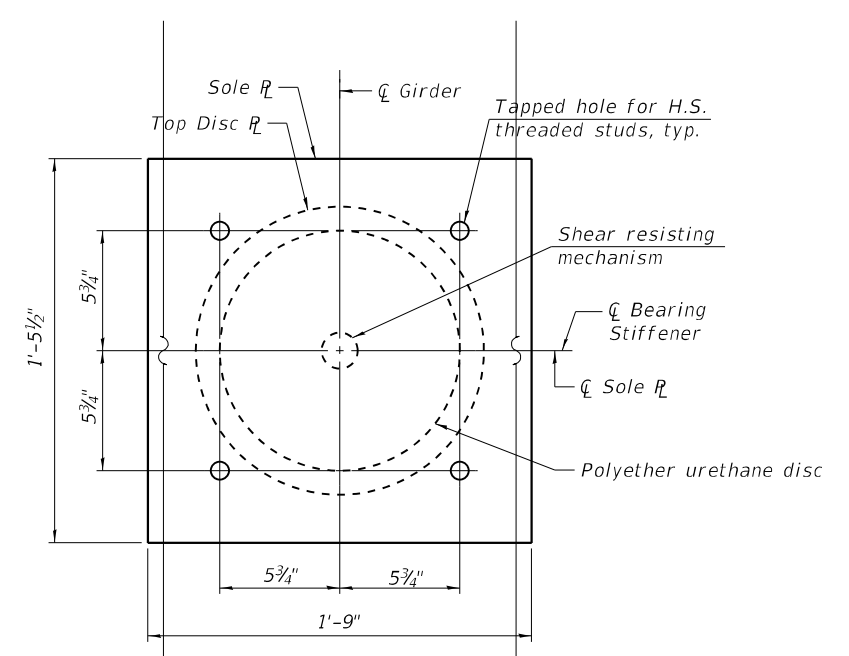
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	97
CONTRACT NO. 62K60				

ILLINOIS FED. AID PROJECT

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SECTION THRU BEARING



SOLE PLATE AND TOP DISC PLATE PLAN

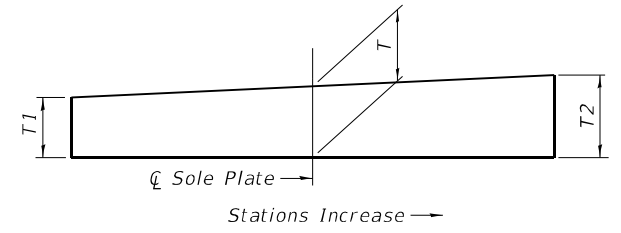
DESIGN DATA

	Unit	
Unfactored Vertical Dead Load Reaction (R_{DC})	kips	108.9
Unfactored Vertical Wearing Surface Reaction (R_{DW})	kips	22.9
Unfactored Vertical Live Load without Impact Reaction (R_{LL})	kips	107.6
Maximum Strength or Extreme Event Lateral Reaction (H_U)	kips	155.9
Maximum Strength Limit State Rotation (Θ_U according to Article 14.4.2.2)	rad	0.031
Service I Factored Lateral Reaction	kips	18.7
Service I Rotation	rad	0.011
Strength I Factored Longitudinal Movement	in.	0.00
Service I Factored Vertical Reaction	kips	239.4
Strength I Factored Vertical Reaction	kips	360.9

Service I Load Factors = 1.0DC + 1.0DW + 1.00LL
 Strength I Load Factors = 1.25DC + 1.5DW + 1.75LL + 1.2TU
 Extreme Event Load Factors = 1.0EQ

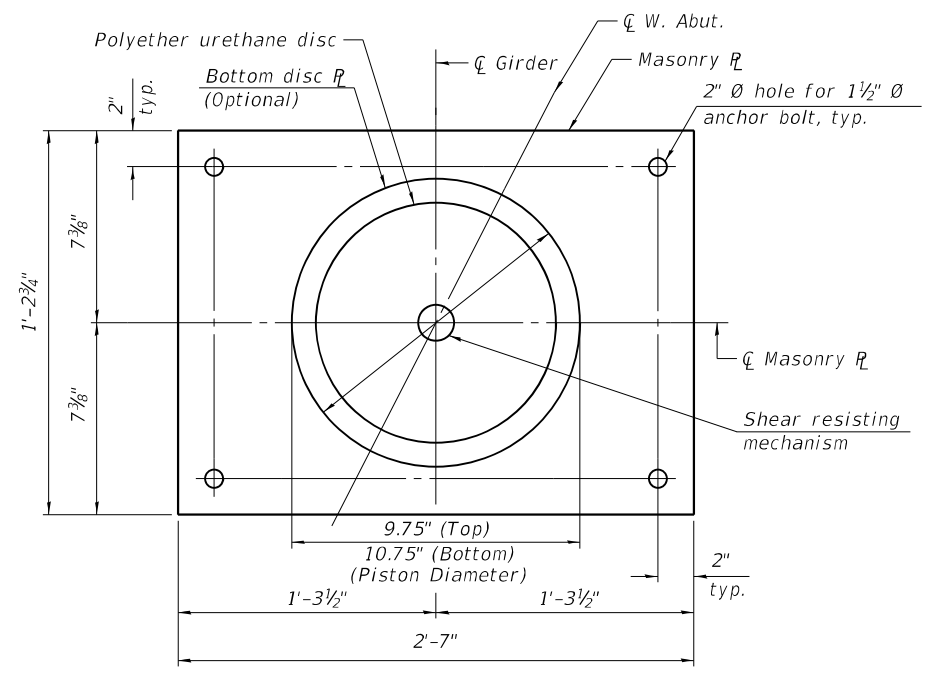
NOTES:

- Total bearing height is estimated based on manufacturer data. Actual bearing height may differ from contract plans. The Contractor shall be responsible for verifying bearing heights and adjusting seat elevations, if required, prior to placing pier or abutment concrete.
- The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.



Location	T1	T	T2
Girder 1	1 3/4"	2 1/16"	2 3/8"
Girder 2	1 3/4"	2"	2 1/4"
Girder 3	1 3/4"	2"	2 1/4"
Girder 4	1 3/4"	2"	2 1/4"
Girder 5	1 3/4"	2"	2 1/4"
Girder 6	1 3/4"	2"	2 1/4"
Girder 7	1 3/4"	1 5/16"	2 1/8"

*****SOLE PLATE THICKNESS DIMENSIONS**



MASONRY PLATE AND BOTTOM DISC PLATE PLAN

BILL OF MATERIAL

Item	Unit	Total
* High Load Multi-Rotational Bearing, Disc, Fixed-300K	Each	7
Anchor Bolts, 1 1/2"	Each	28

* The value specified in the pay item name is an approximate vertical load capacity that is used for letting and bidding purposes only. Exact bearing capacity will vary subject to final design.

HLMR-D-F

8/16/2022



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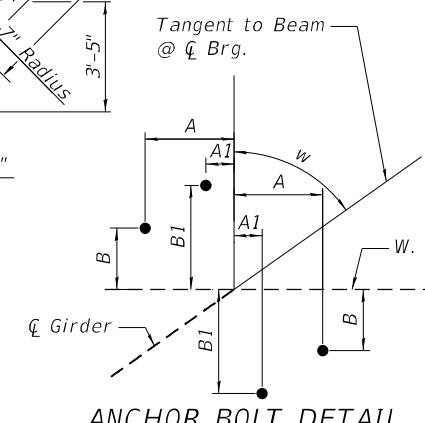
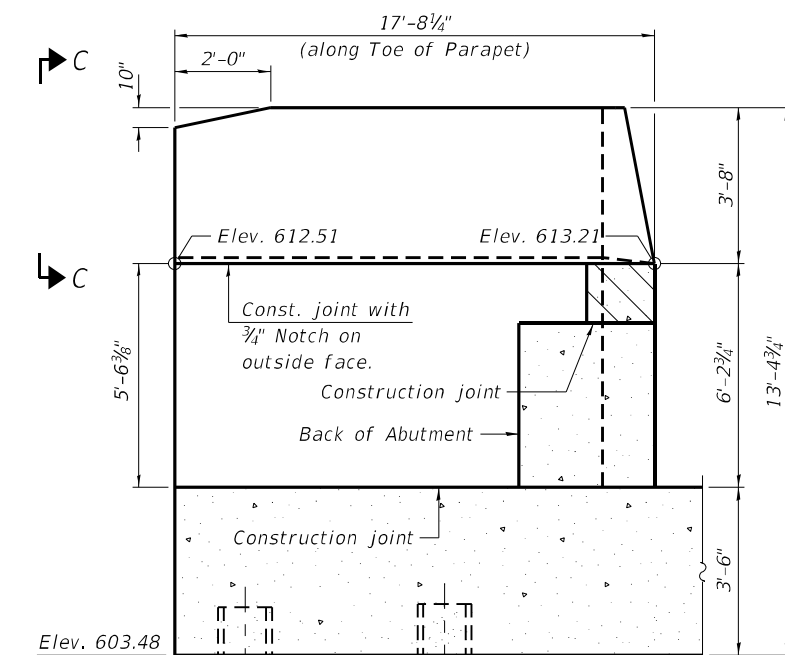
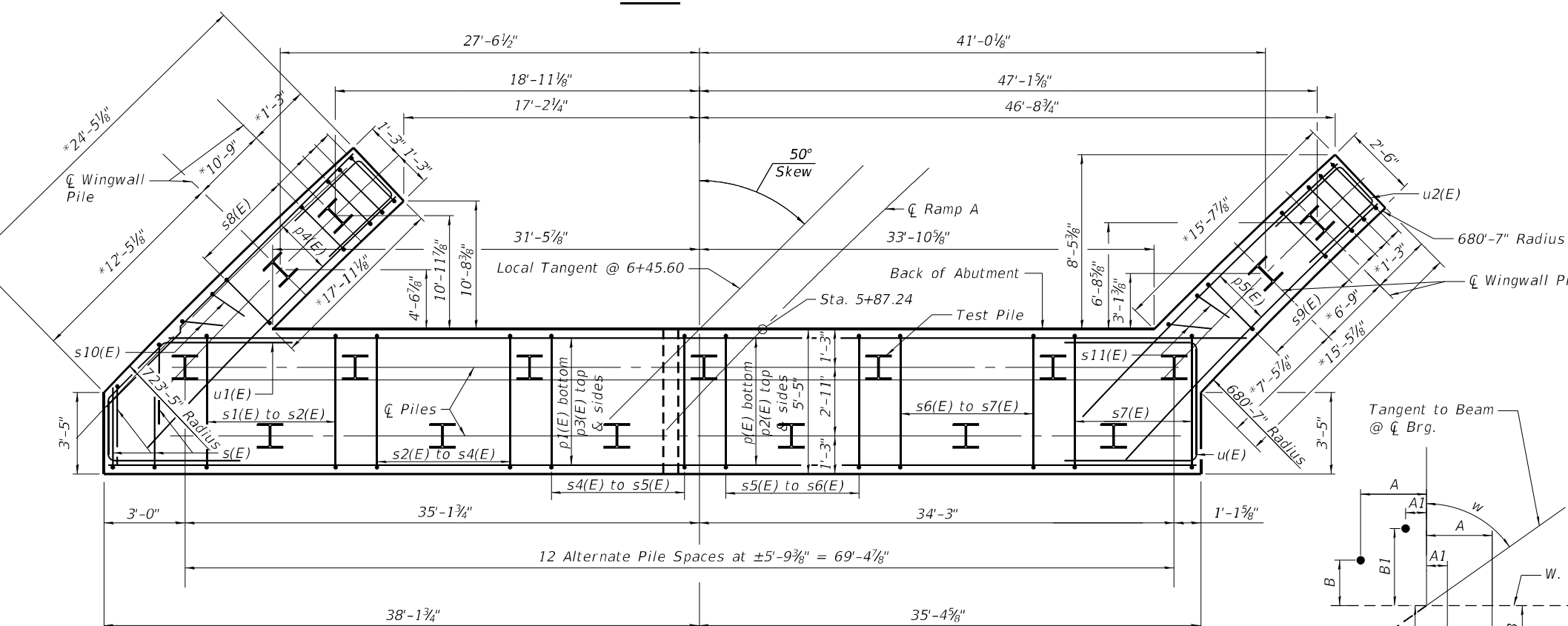
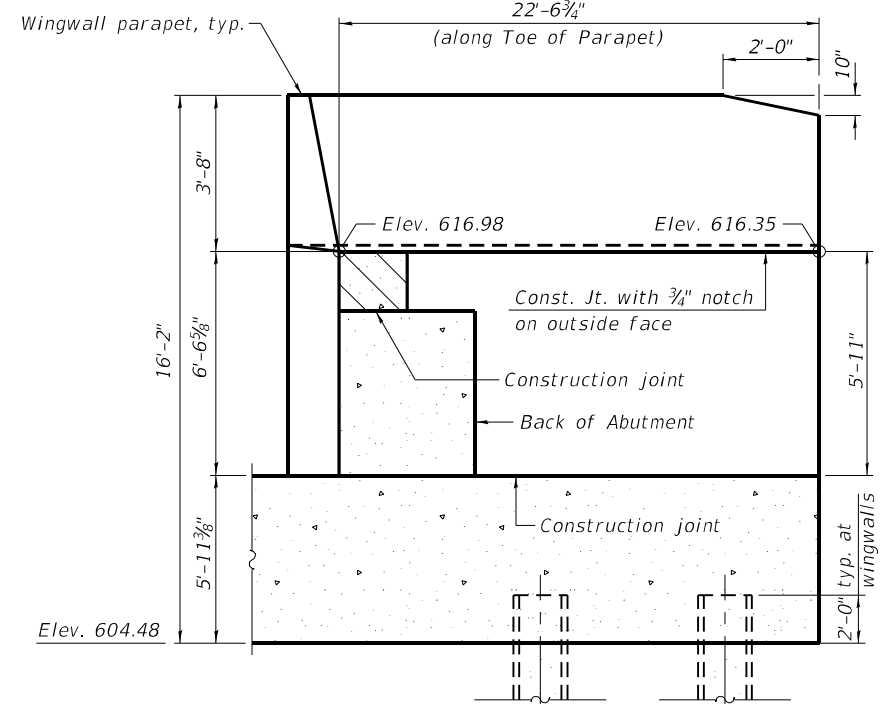
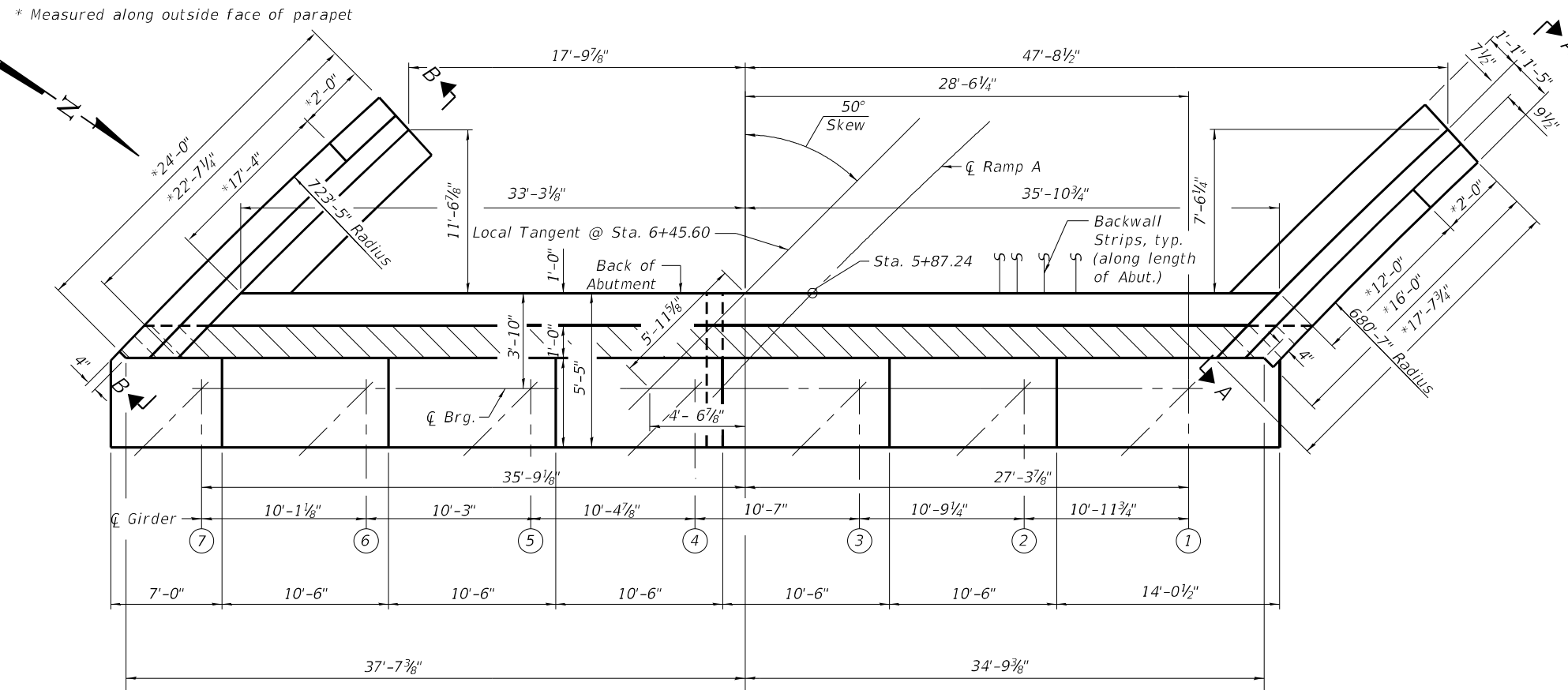
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIXED HLMR DISC BEARING DETAILS
STRUCTURE NO. 016-2757**

SHEET 521 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	98
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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ANCHOR BOLT DETAIL DIMENSIONS

Girder	w	A	A1	B	B1
1	56'12'16.9"	1'-0"	3 1/2"	8 1/2"	1'-2 3/8"
2	55'26'48.2"	1'-0 1/2"	3 1/2"	8 1/2"	1'-2 3/8"
3	54'42'58.0"	1'-0 1/2"	3 1/2"	7 1/2"	1'-2 3/8"
4	54'00'39.5"	1'-0 1/2"	3 1/2"	7 1/2"	1'-2 3/8"
5	53'19'46.3"	1'-0 1/2"	3 1/2"	7 1/2"	1'-2 3/8"
6	52'40'13.1"	1'-0 1/2"	3 1/2"	7 1/2"	1'-2 3/8"
7	52'01'54.9"	1'-0 1/2"	4 1/2"	7 1/2"	1'-1 3/8"



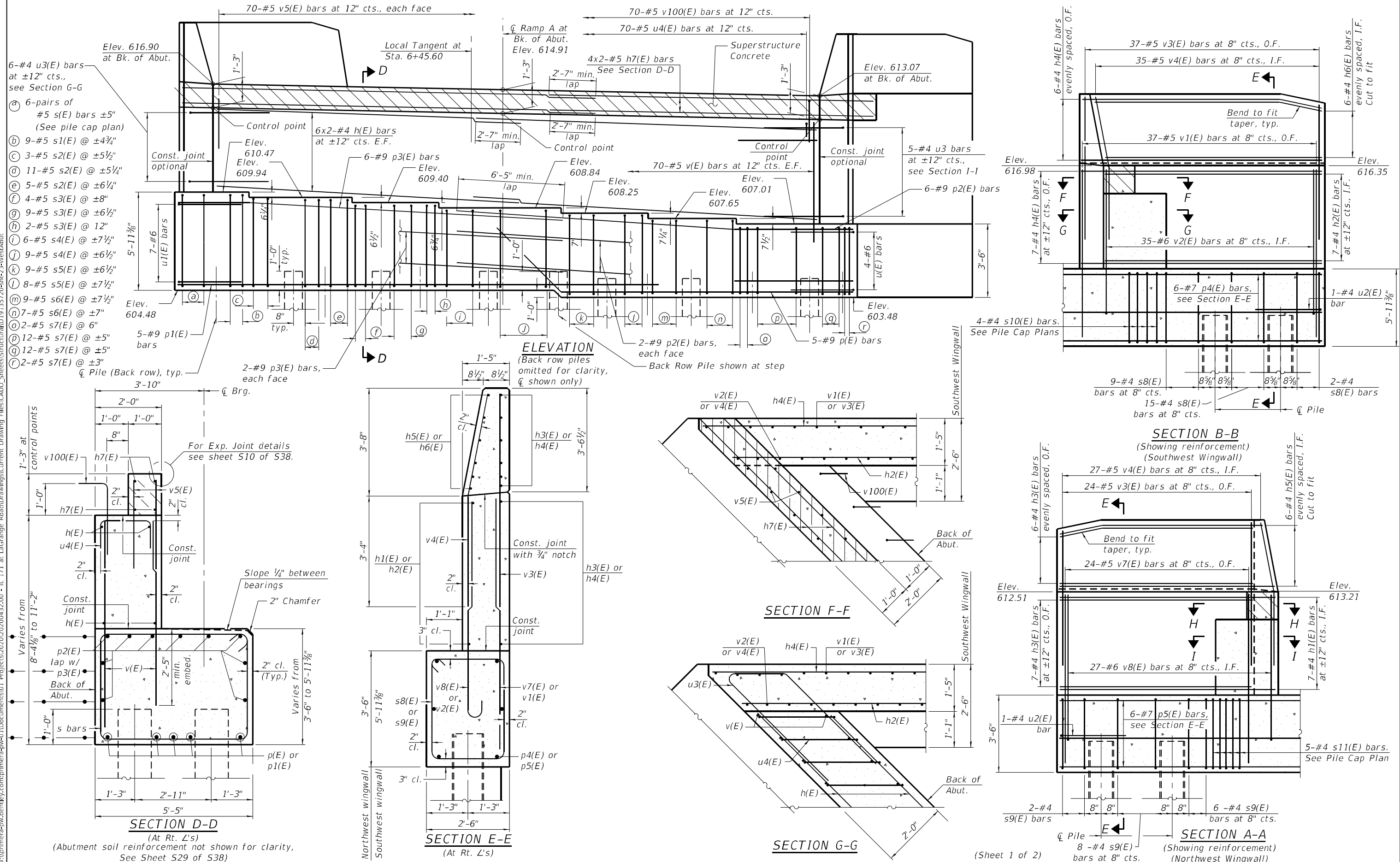
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PLOT DATE =	CHECKED - RO	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
 STRUCTURE NO. 016-2757

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 99
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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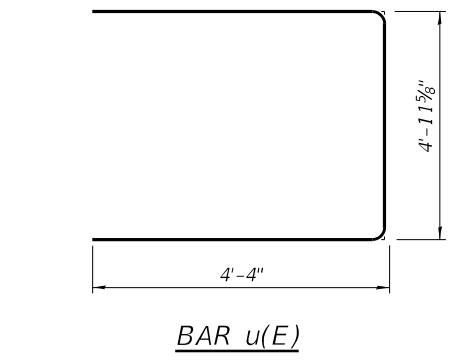
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STATE OF ILLINOIS
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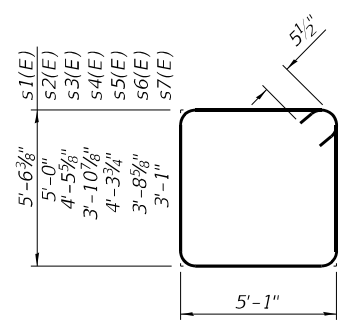
WEST ABUTMENT DETAILS
 STRUCTURE NO. 016-2757

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CONTRACT NO. 62K60			ILLINOIS FED. AID PROJECT	

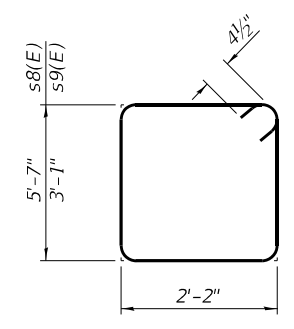
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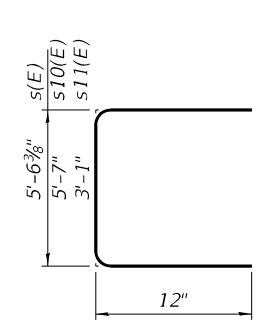
BAR u(E)



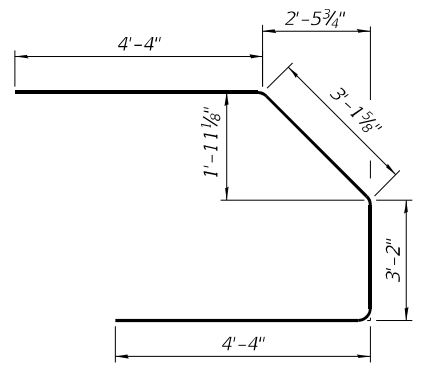
BARS s1(E) thru s7(E)



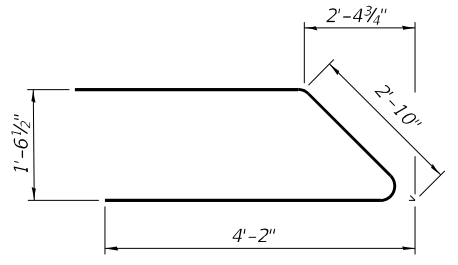
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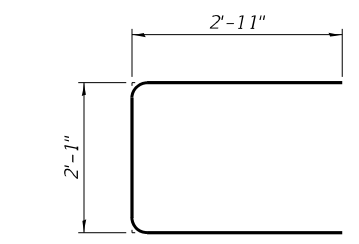
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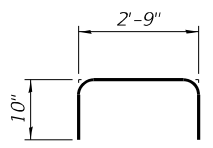
BAR u1(E)



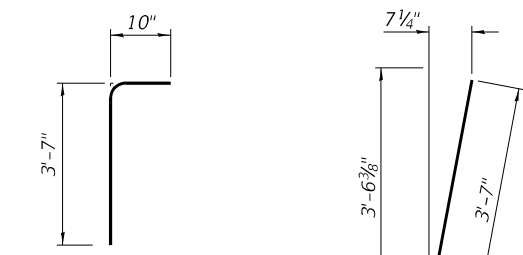
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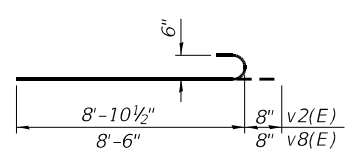
BAR u2(E)



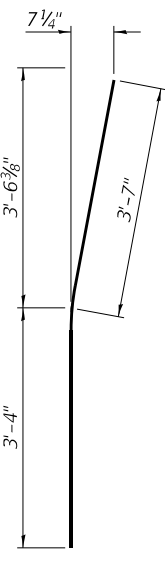
BAR u4(E)



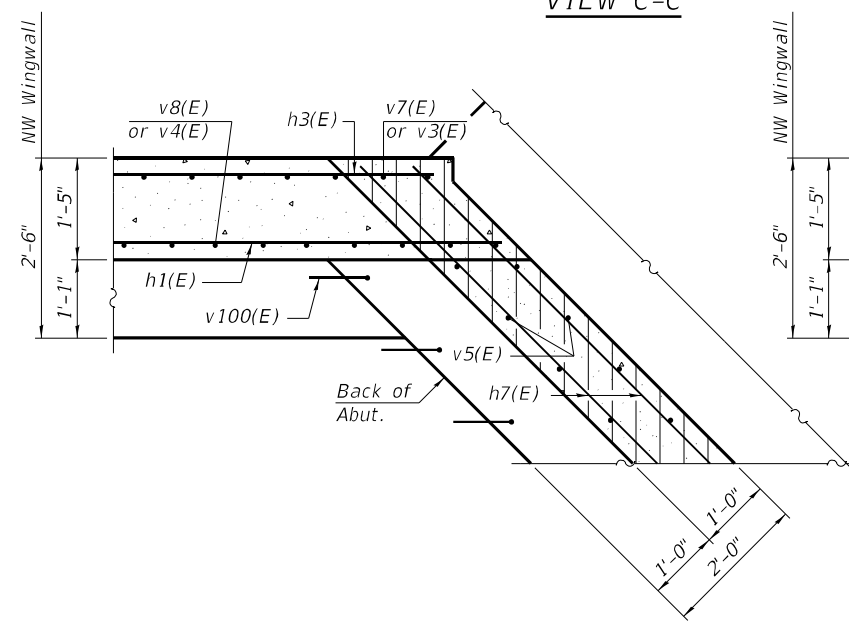
BAR v100(E)



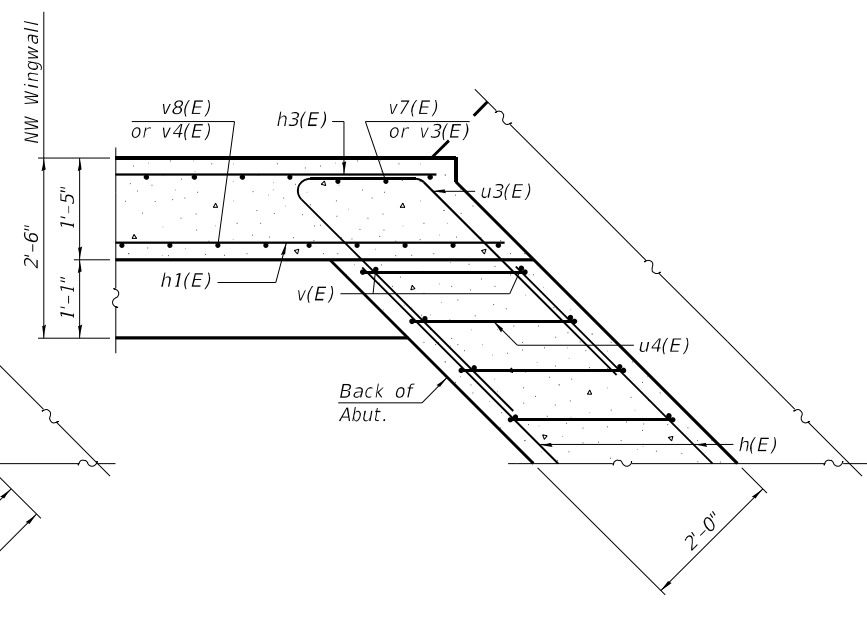
BAR v2(E) & v8(E)



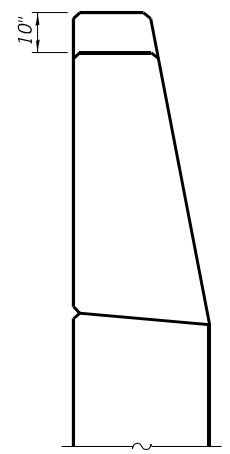
BAR v4(E)



SECTION H-H

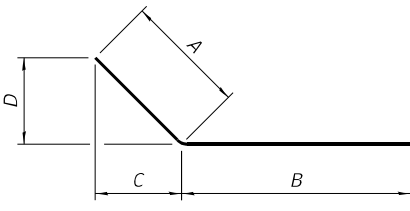


SECTION I-I



VIEW C-C

Notes:
 Hatched area to be poured separately after superstructure falsework has been removed and after approach slab side formwork has been removed.
 Quantity of concrete in wingwall parapet and hatched area included with Concrete Superstructure on sheet S8 of S38.
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles see sheet S34 of S38.
 The top of back wall and approach slab seat shall have a constant slope determined from the control points shown.
 Concrete Sealer shall be applied to the bearing seats and front faces of the hatched block, back wall, and abutment cap.



BAR p(E), p2(E) & p3(E)

Bar	A	B	C	D
p(E)	5'-10"	34'-9"	4'-1 1/2"	4'-1 1/2"
p2(E)	13'-0 1/8"	26'-9 7/8"	12'-11 1/8"	8 3/4"
p3(E)	7'-7 3/8"	32'-2 1/8"	7'-7 1/4"	5'-8"

**WEST ABUTMENT
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	24	#4	35'-6"	=====
h1(E)	7	#4	17'-0"	=====
h2(E)	7	#4	22'-6"	=====
h3(E)	13	#4	15'-5"	=====
h4(E)	13	#4	23'-11"	=====
h5(E)	6	#4	17'-0"	=====
h6(E)	6	#4	22'-6"	=====
h7(E)	8	#5	38'-3"	=====
p(E)	5	#9	40'-7"	=====
p1(E)	5	#9	42'-0"	=====
p2(E)	10	#9	39'-10"	=====
p3(E)	10	#9	39'-10"	=====
p4(E)	6	#7	24'-5"	=====
p5(E)	6	#7	18'-10"	=====
s(E)	12	#5	7'-7"	=====
s1(E)	9	#5	22'-2"	=====
s2(E)	19	#5	21'-1"	=====
s3(E)	15	#5	20'-1"	=====
s4(E)	15	#5	18'-11"	=====
s5(E)	17	#5	19'-9"	=====
s6(E)	16	#5	18'-7"	=====
s7(E)	28	#5	17'-3"	=====
s8(E)	26	#4	16'-3"	=====
s9(E)	16	#4	11'-3"	=====
s10(E)	4	#4	7'-7"	=====
s11(E)	5	#4	5'-1"	=====
u(E)	4	#6	13'-8"	=====
u1(E)	7	#6	15'-0"	=====
u2(E)	2	#4	7'-11"	=====
u3(E)	11	#4	11'-2"	=====
u4(E)	70	#5	4'-5"	=====
v(E)	140	#5	8'-2"	=====
v1(E)	37	#5	11'-6"	=====
v2(E)	35	#6	9'-7"	=====
v3(E)	61	#5	6'-10"	=====
v4(E)	62	#5	6'-11"	=====
v5(E)	140	#5	3'-8"	=====
v7(E)	24	#5	8'-8"	=====
v8(E)	27	#6	9'-2"	=====
v100(E)	70	#5	4'-5"	=====
Concrete Structures		Cu. Yd.	128.8	
Reinforcement Bars, Epoxy Coated		Pound	14,210	
Furnishing Steel Piles, HP12x53		Foot	992	
Driving Piles		Foot	992	
Test Pile HP12x53		Each	1	
Concrete Sealer		Sq. Ft.	1517	
Pile Shoes		Each	16	

PILE DATA

Pile Type & Size: HP12x53 with Pile Shoes
 Nominal Required Bearing: 392 kips
 Factored Resistance Available: 215 kips
 Est. Length: 62 ft
 No. Production Piles: 16
 No. Test Piles: 1

(Sheet 2 of 2)



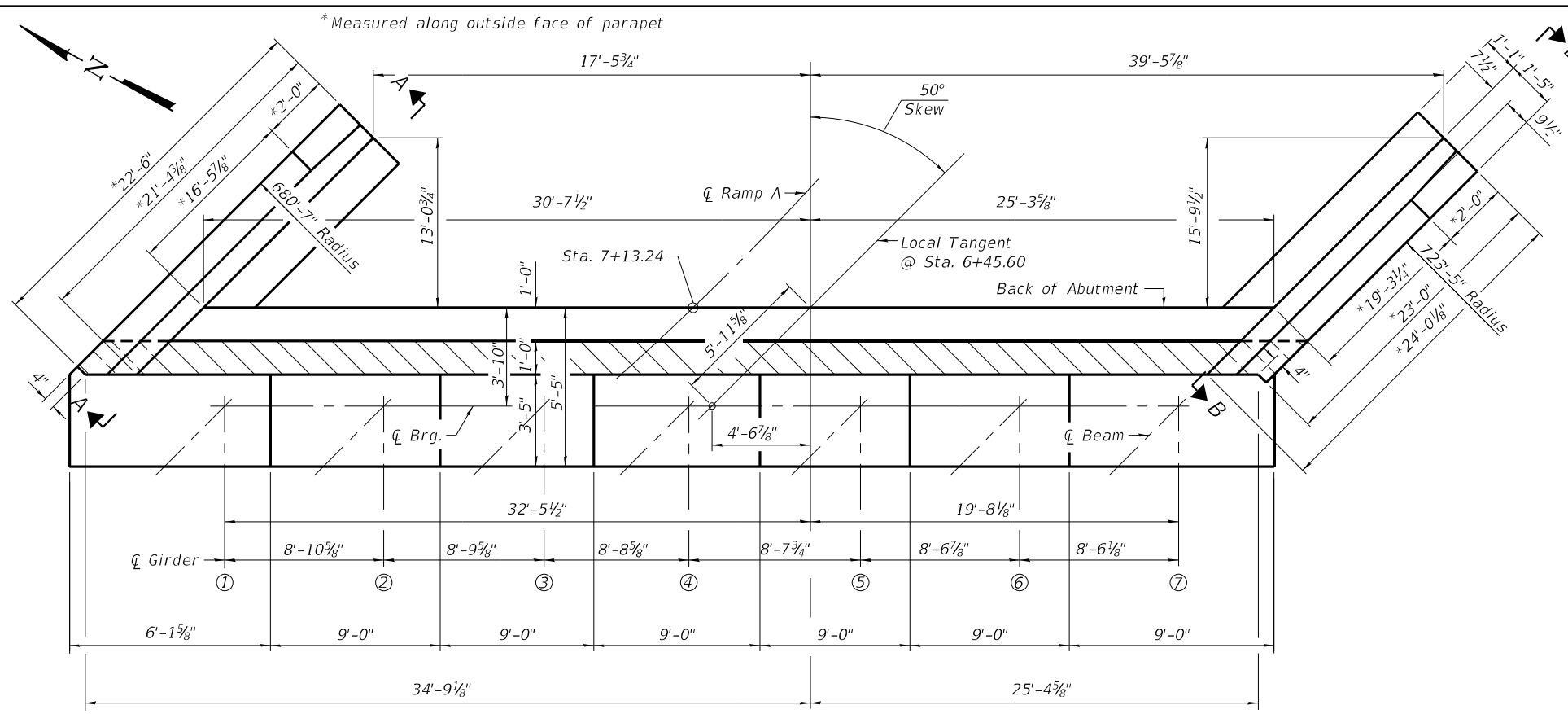
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PLOT DATE =	DRAWN - JSR	REVISED -
	CHECKED - RO	REVISED -

STATE OF ILLINOIS
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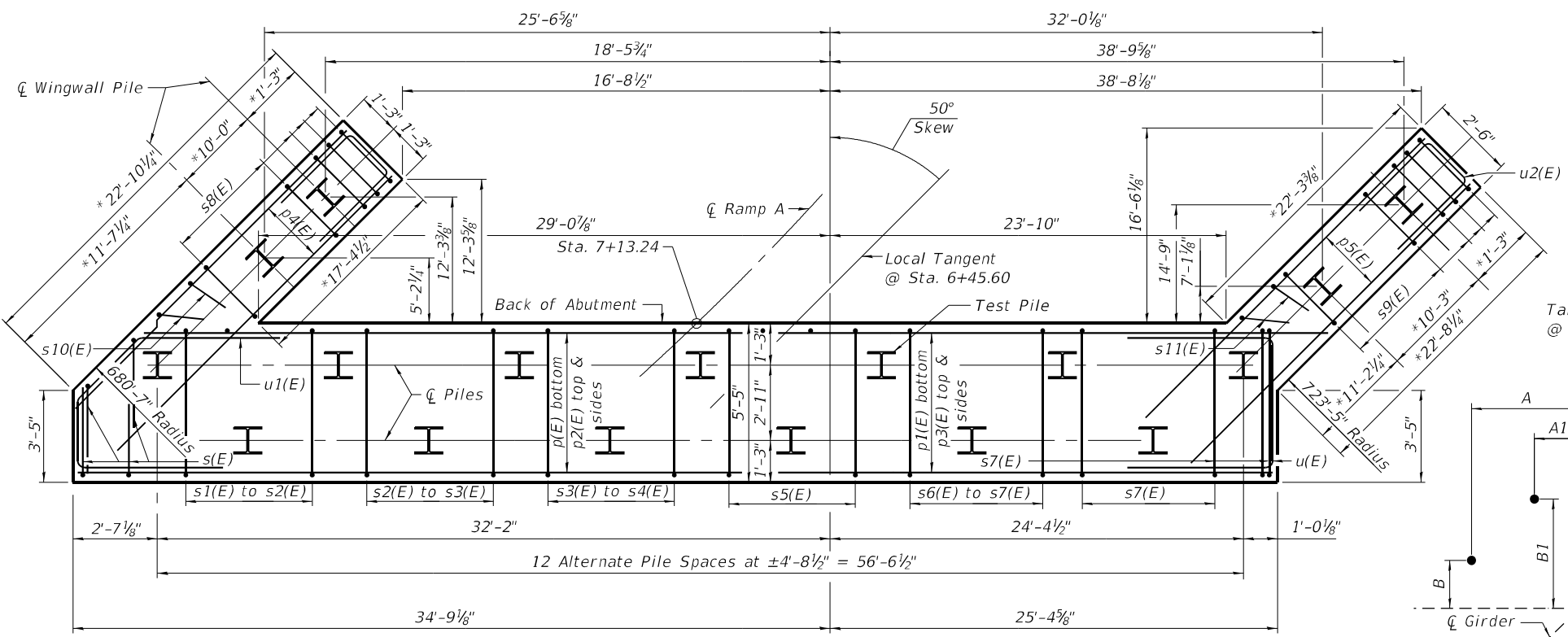
WEST ABUTMENT DETAILS
 STRUCTURE NO. 016-2757

SHEET S24 OF S38 SHEETS

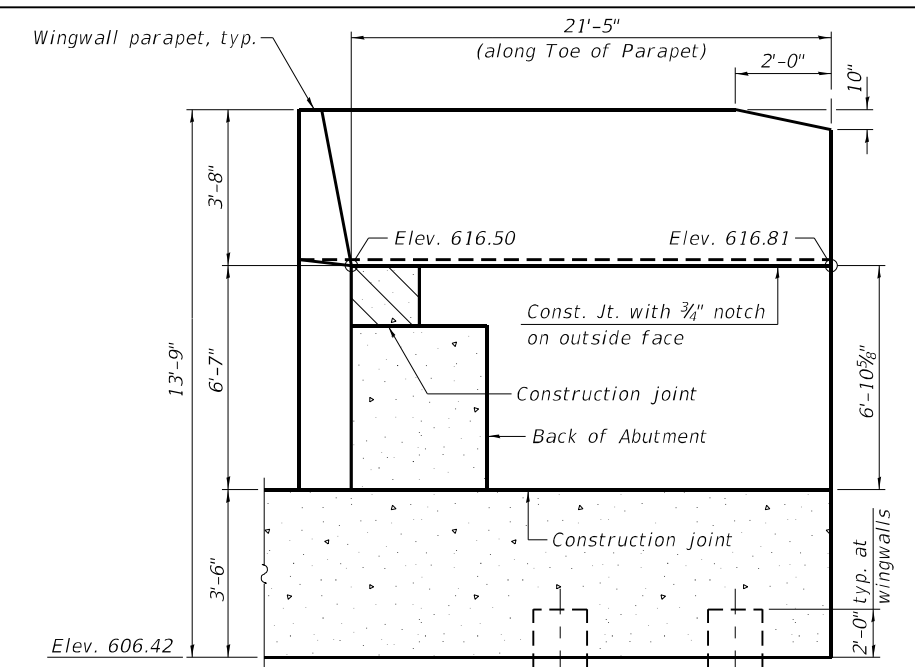
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	101
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K60	



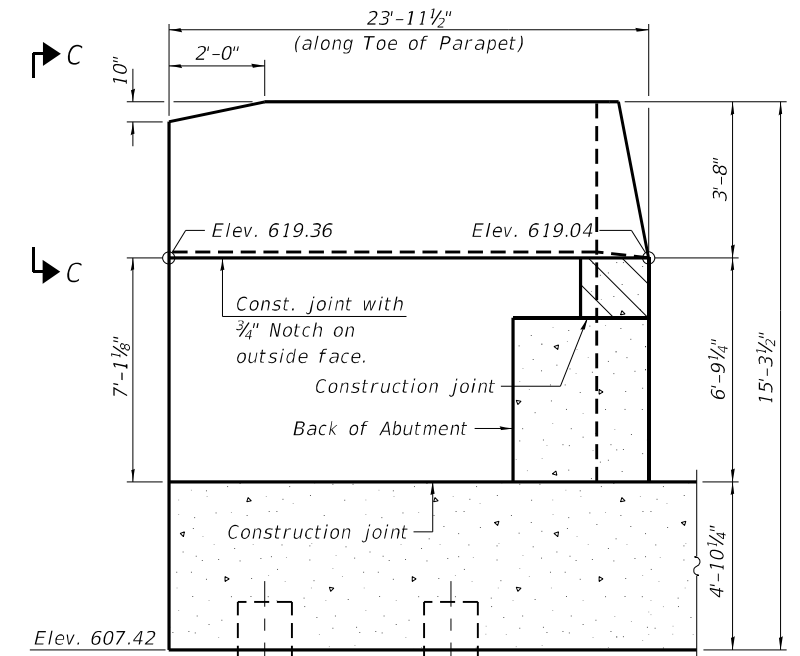
PLAN



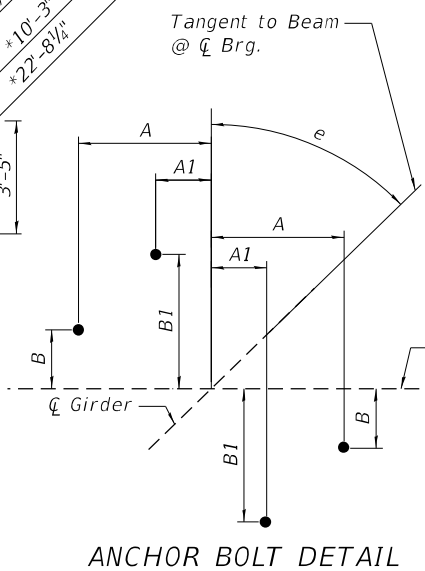
PILE CAP PLAN



SECTION A-A
(Showing dimensions)
(Northeast wingwall)



SECTION B-B
(Showing dimensions)
(Southeast wingwall)



ANCHOR BOLT DETAIL

ANCHOR BOLT DETAIL DIMENSIONS

Girder	e	A	A1	B	B1
1	46°18'3.2"	1'-1 1/2"	5 3/8"	5 1/8"	1'-1 1/2"
2	45°46'2.5"	1'-1 1/2"	5 3/8"	5 1/8"	1'-1 1/2"
3	45°14'53.5"	1'-1 1/2"	5 3/8"	5 1/8"	1'-1 1/2"
4	44°44'33.9"	1'-1 1/2"	5 3/8"	5 1/8"	1'-1 1/2"
5	44°15'1.4"	1'-1 1/2"	5 3/8"	5 1/8"	1'-1 1/2"
6	43°46'13.7"	1'-1 1/2"	5 3/8"	5 1/8"	1'-1 1/2"
7	43°18'9.1"	1'-1 1/2"	5 3/8"	5 1/8"	1'-1 1/2"

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GARZA KARHOFF
 ENGINEERING, LLC

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PLOT DATE =	DRAWN - JSR	REVISED -
	CHECKED - RO	REVISED -

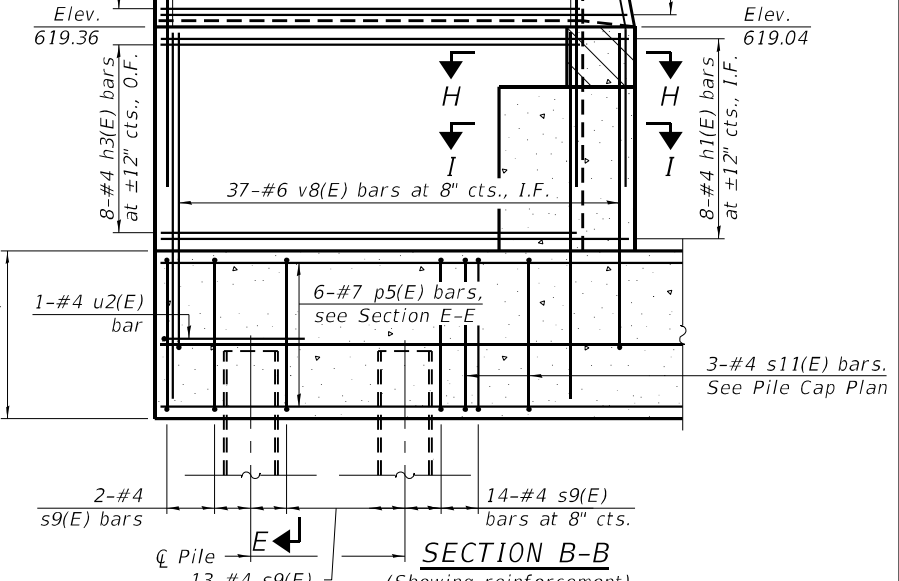
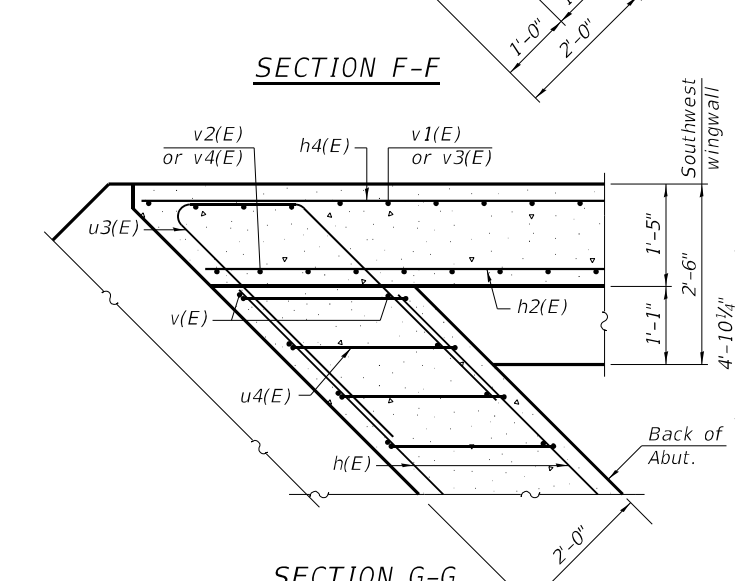
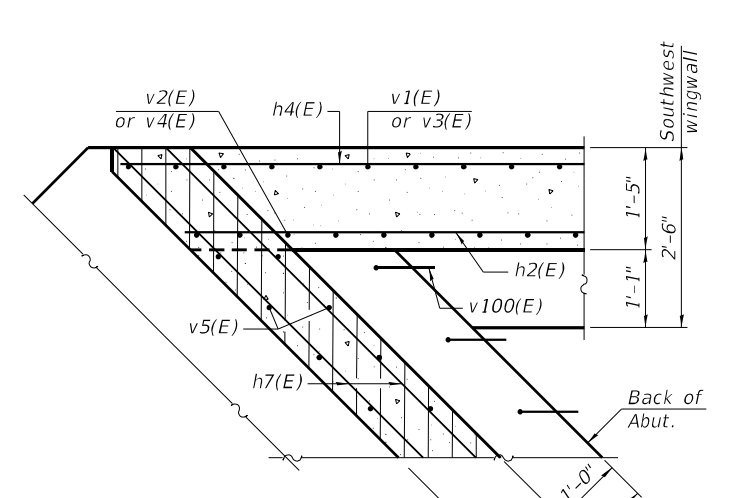
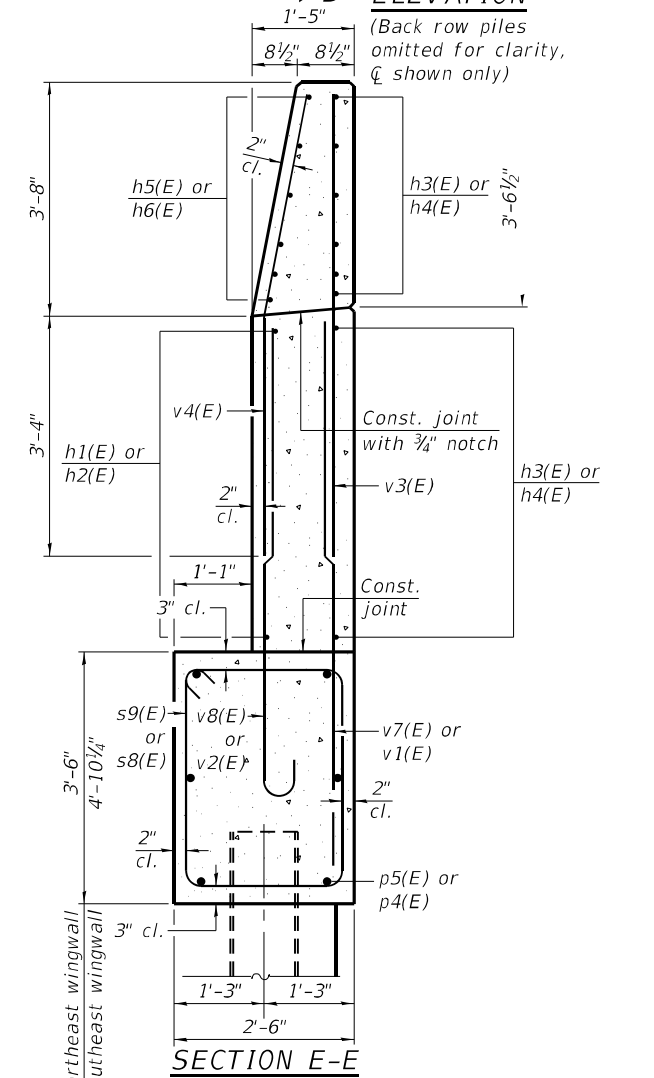
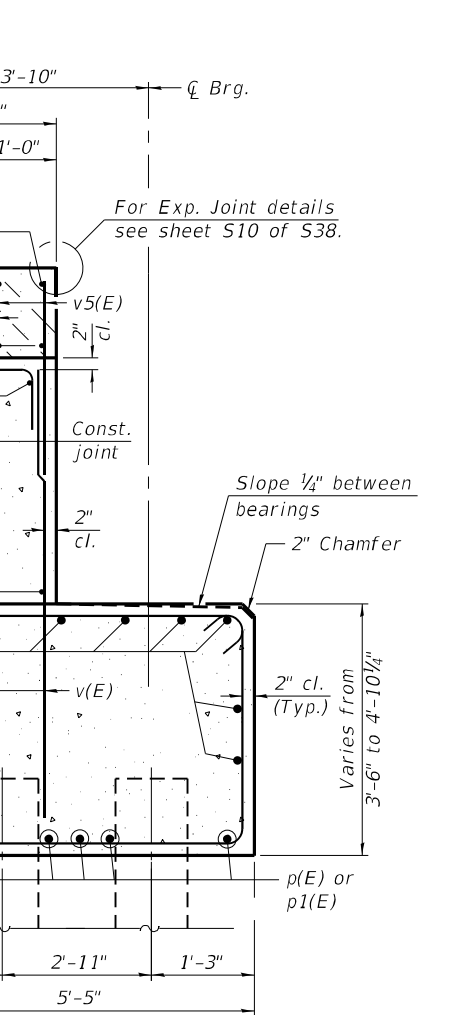
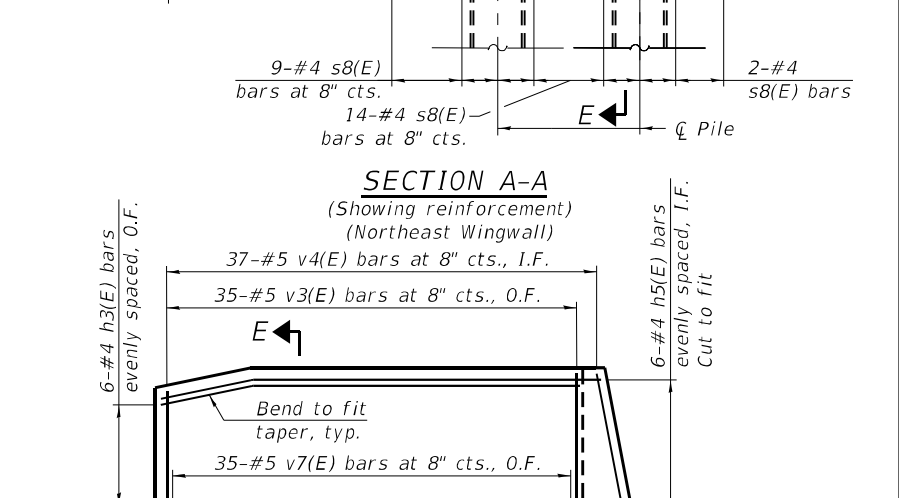
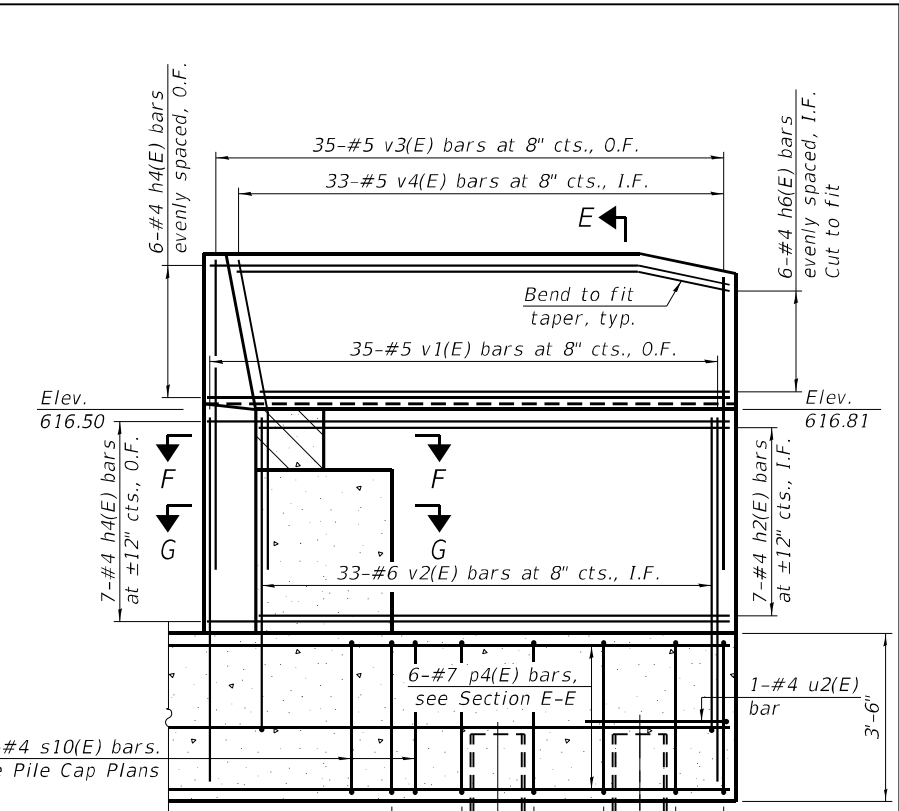
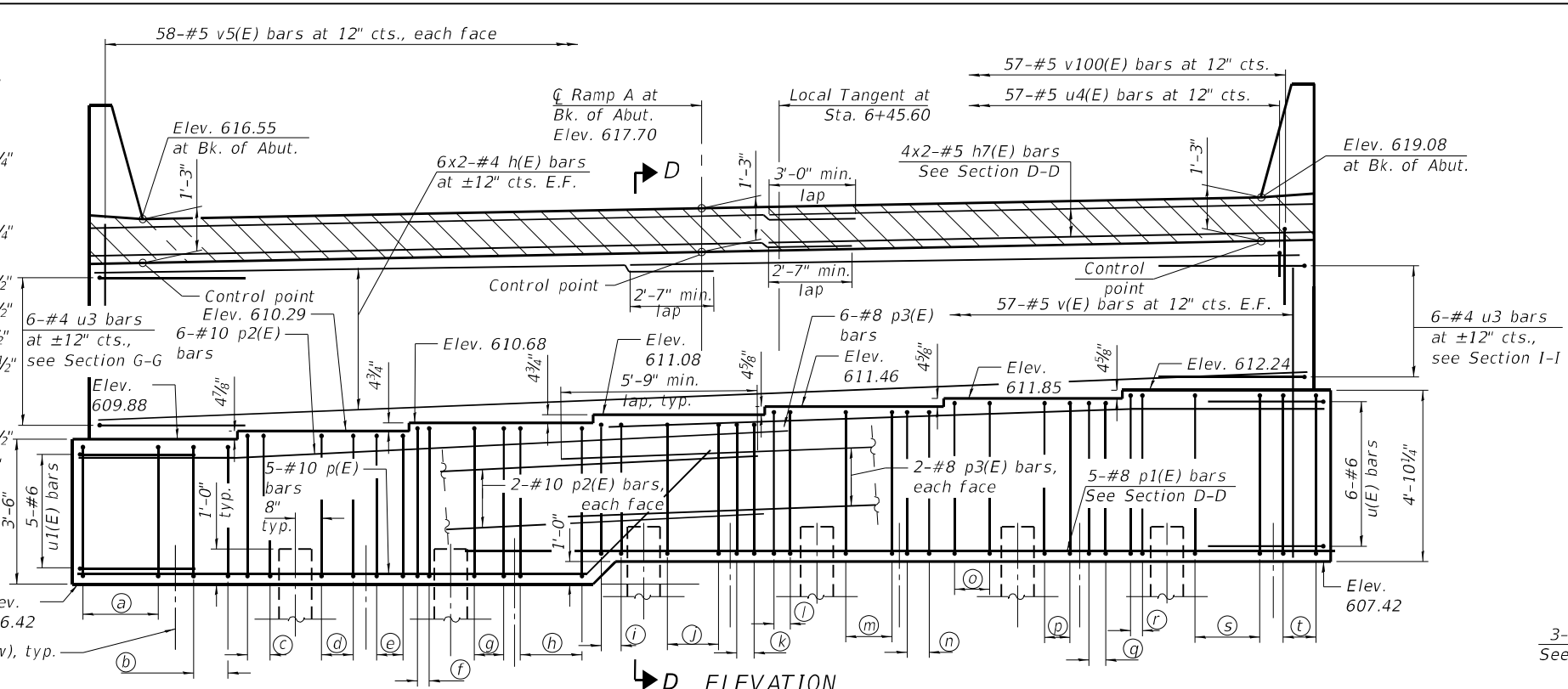
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
 STRUCTURE NO. 016-2757

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 102
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

SHEET 525 OF 538 SHEETS

- (a) 8-pairs of #5 S(E) bars @ 3"
See pile cap plan.
- (b) 7-#5 s1(E) bars @ 5 1/4"
- (c) 2-#5 s1(E) bars @ 4"
- (d) 6-#5 s2(E) bars @ 8"
- (e) 5-#5 s2(E) bars @ ±6 3/4"
- (f) 1-#5 s3(E) bars @ 9"
- (g) 6-#5 s3(E) bars @ 8"
- (h) 4-#5 s3(E) bars @ ±7 1/4"
- (i) 3-#5 s4(E) bars @ 7"
- (j) 7-#5 s4(E) bars @ ±6 1/2"
- (k) 4-#5 s4(E) bars @ ±5 1/2"
- (l) 3-#5 s5(E) bars @ ±9 1/2"
see Section G-G
- (m) 7-#5 s5(E) bars @ ±6 1/2"
- (n) 3-#5 s5(E) bars @ 6"
- (o) 4-#5 s6(E) bars @ 8"
- (p) 7-#5 s6(E) bars @ ±6 1/2"
- (q) 2-#5 s6(E) bars @ 3 1/2"
- (r) 5-#5 s7(E) bars @ 7 1/4"
- (s) 15-#5 s7(E) bars @ ±3"
- (t) 2-#5 s7(E) bars @ 3"



ELEVATION
(Back row piles omitted for clarity, \bar{C} shown only)

SECTION F-F

SECTION G-G

SECTION A-A
(Showing reinforcement)
(Northeast Wingwall)

SECTION B-B
(Showing reinforcement)
(Southeast Wingwall)

SECTION D-D
(At Rt. L's)
(Abutment soil reinforcement not shown for clarity, See Sheet S32 of S38)

(Sheet 1 of 2)



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	CHECKED - RO	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT DETAILS
STRUCTURE NO. 016-2757

SHEET 526 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	103
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

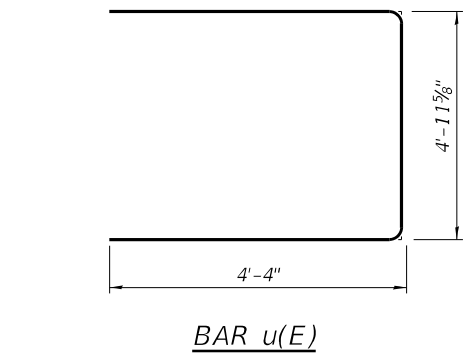
Notes:
 Hatched area to be poured separately after superstructure falsework has been removed and after approach slab side formwork has been removed.
 Quantity of concrete in wingwall parapet and hatched area included with Concrete Superstructure on sheet S8 of S38.
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles see sheet S34 of S38.
 The top of back wall and approach slab seat shall have a constant slope determined from the control points shown.
 Concrete Sealer shall be applied to the bearing seats and front faces of the hatched block, back wall, and abutment cap.

**EAST ABUTMENT
 BILL OF MATERIAL**

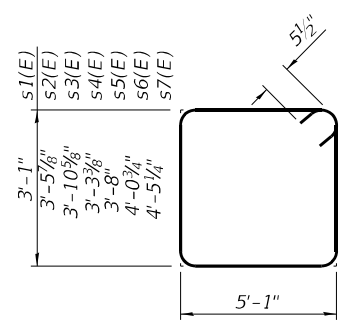
Bar	No.	Size	Length	Shape
h(E)	24	#4	31'-3"	=====
h1(E)	8	#4	23'-4"	=====
h2(E)	7	#4	21'-4"	=====
h3(E)	14	#4	22'-6"	=====
h4(E)	13	#4	22'-3"	=====
h5(E)	6	#4	23'-3"	=====
h6(E)	6	#4	21'-3"	=====
h7(E)	8	#5	31'-6"	=====
p(E)	5	#10	29'-7"	=====
p1(E)	5	#8	38'-7"	=====
p2(E)	10	#10	32'-10"	=====
p3(E)	10	#8	32'-10"	=====
p4(E)	6	#7	22'-11"	=====
p5(E)	6	#7	25'-4"	=====
s(E)	16	#5	5'-1"	=====
s1(E)	9	#5	17'-3"	=====
s2(E)	11	#5	18'-1"	=====
s3(E)	11	#5	18'-11"	=====
s4(E)	14	#5	17'-8"	=====
s5(E)	13	#5	18'-5"	=====
s6(E)	13	#5	19'-3"	=====
s7(E)	22	#5	20'-0"	=====
s8(E)	25	#4	11'-3"	=====
s9(E)	29	#4	14'-1"	=====
s10(E)	3	#4	5'-1"	=====
s11(E)	3	#4	6'-6"	=====
u(E)	6	#6	13'-8"	=====
u1(E)	5	#6	15'-0"	=====
u2(E)	2	#4	7'-11"	=====
u3(E)	12	#4	11'-2"	=====
u4(E)	57	#5	4'-5"	=====
v(E)	114	#5	8'-1"	=====
v1(E)	35	#5	9'-9"	=====
v2(E)	33	#6	10'-3"	=====
v3(E)	70	#5	6'-10"	=====
v4(E)	70	#5	6'-11"	=====
v5(E)	114	#5	3'-8"	=====
v7(E)	35	#5	11'-4"	=====
v8(E)	37	#6	10'-5"	=====
v100(E)	57	#5	4'-5"	=====
Concrete Structures	Cu. Yd.		110.3	
Reinforcement Bars, Epoxy Coated	Pound		13,110	
Furnishing Steel Piles, HP12x53	Foot		864	
Driving Piles	Foot		864	
Test Pile HP12x53	Each		1	
Concrete Sealer	Sq. Ft.		1367	
Pile Shoes	Each		16	

PILE DATA

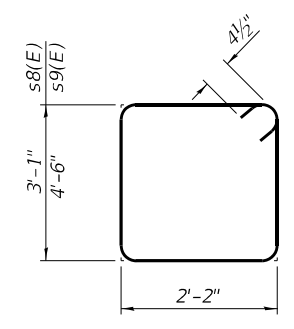
Pile Type & Size: HP12x53 with Pile Shoes
 Nominal Required Bearing: 392 kips
 Factored Resistance Available: 215 kips
 Est. Length: 54 ft
 No. Production Piles: 16
 No. Test Piles: 1



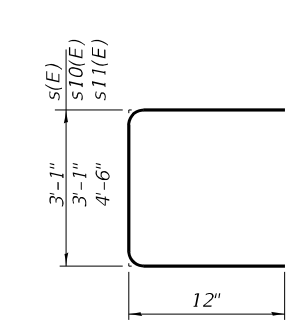
BAR u(E)



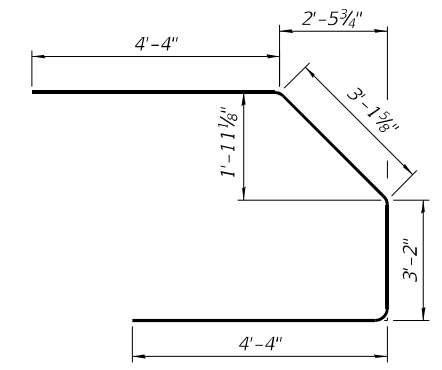
BARS s1(E) thru s7(E)



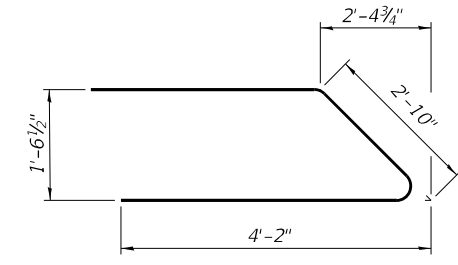
BARS s8(E) & s9(E)



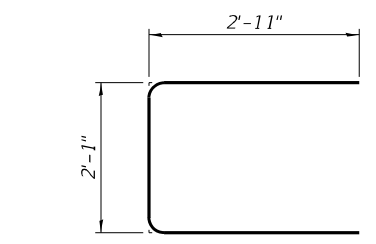
BAR s(E), s10(E) & s11(E)



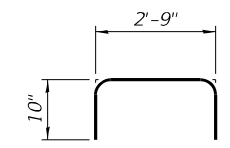
BAR u1(E)



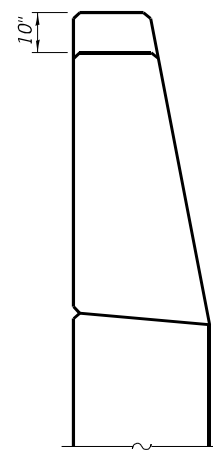
BAR u3(E)



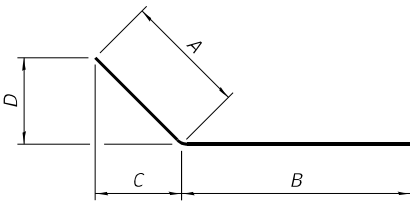
BAR u2(E)



BAR u4(E)

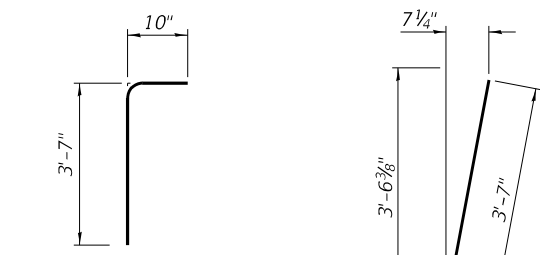


VIEW C-C

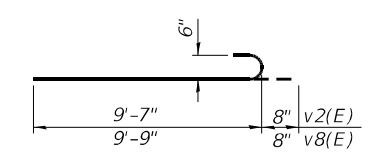


BAR p(E), p2(E) & p3(E)

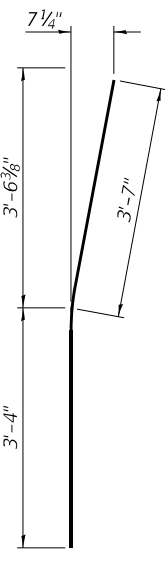
Bar	A	B	C	D
p(E)	5'-5"	24'-2"	3'-10"	3'-10"
p2(E)	6'-4"	26'-6"	6'-3 7/8"	3 7/8"
p3(E)	8'-3 1/2"	24'-6 1/2"	8'-3 7/8"	4 7/8"



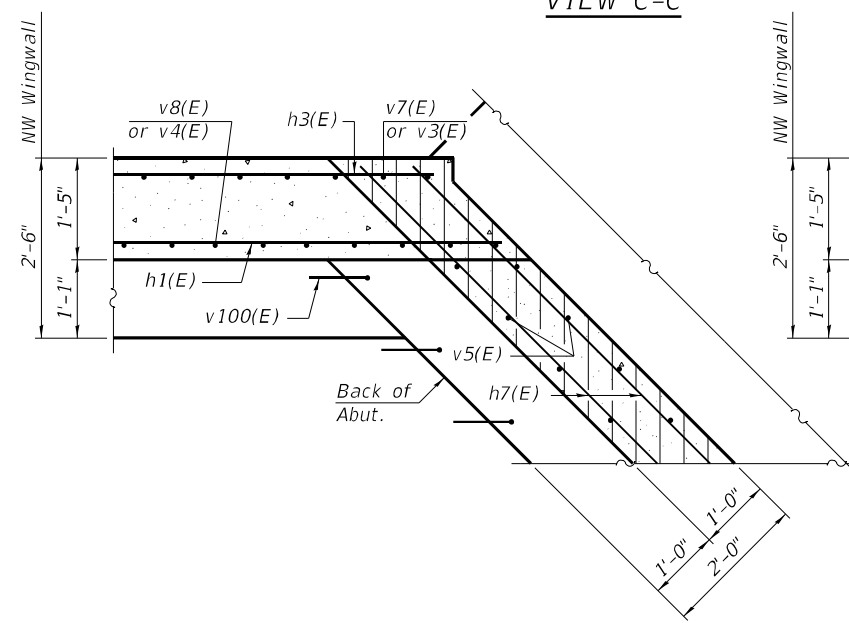
BAR v100(E)



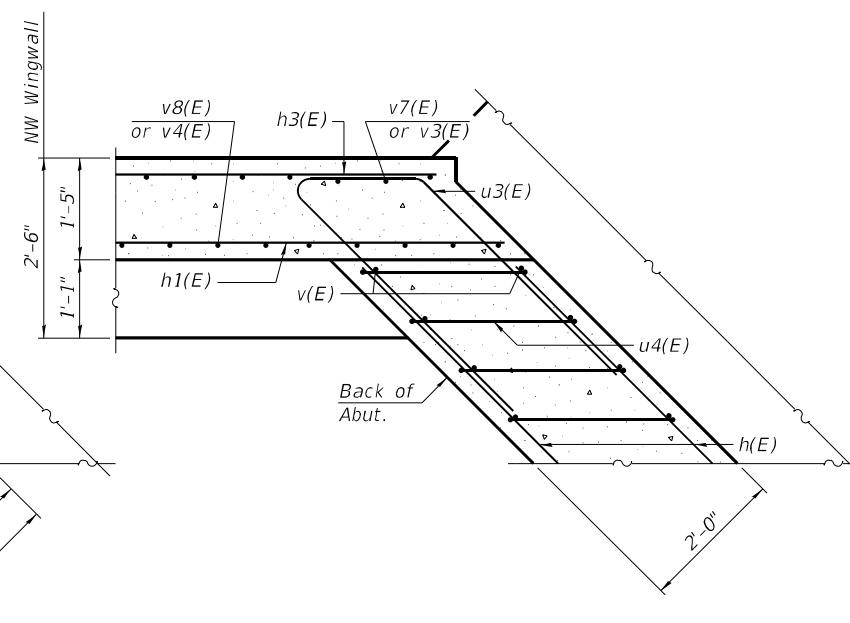
BAR v2(E) & v8(E)



BAR v4(E)



SECTION H-H



SECTION I-I

(Sheet 2 of 2)

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PLOT DATE =	DRAWN - JSR	REVISED -
	CHECKED - RO	REVISED -

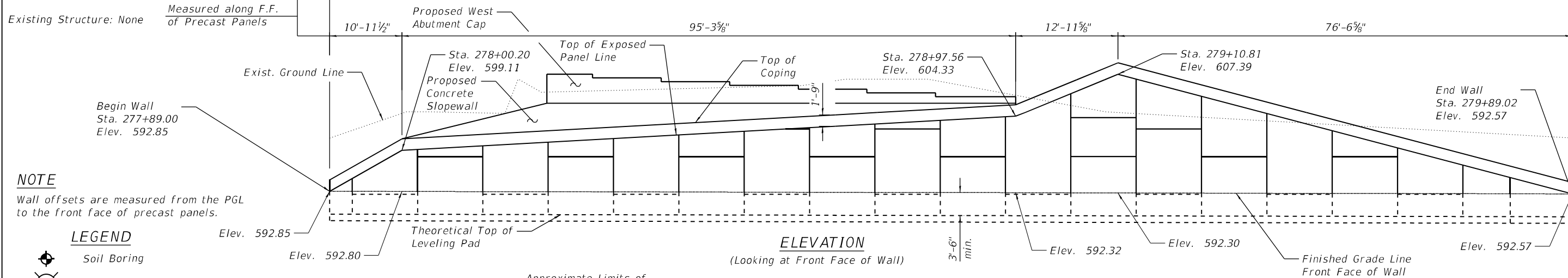
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT DETAILS
 STRUCTURE NO. 016-2757

SHEET 527 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	104
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K60	

Benchmark: Chiseled \square on the east corner of the headwall on the south side of I-294 and east side of NB US 45 on the ramp.



NOTE

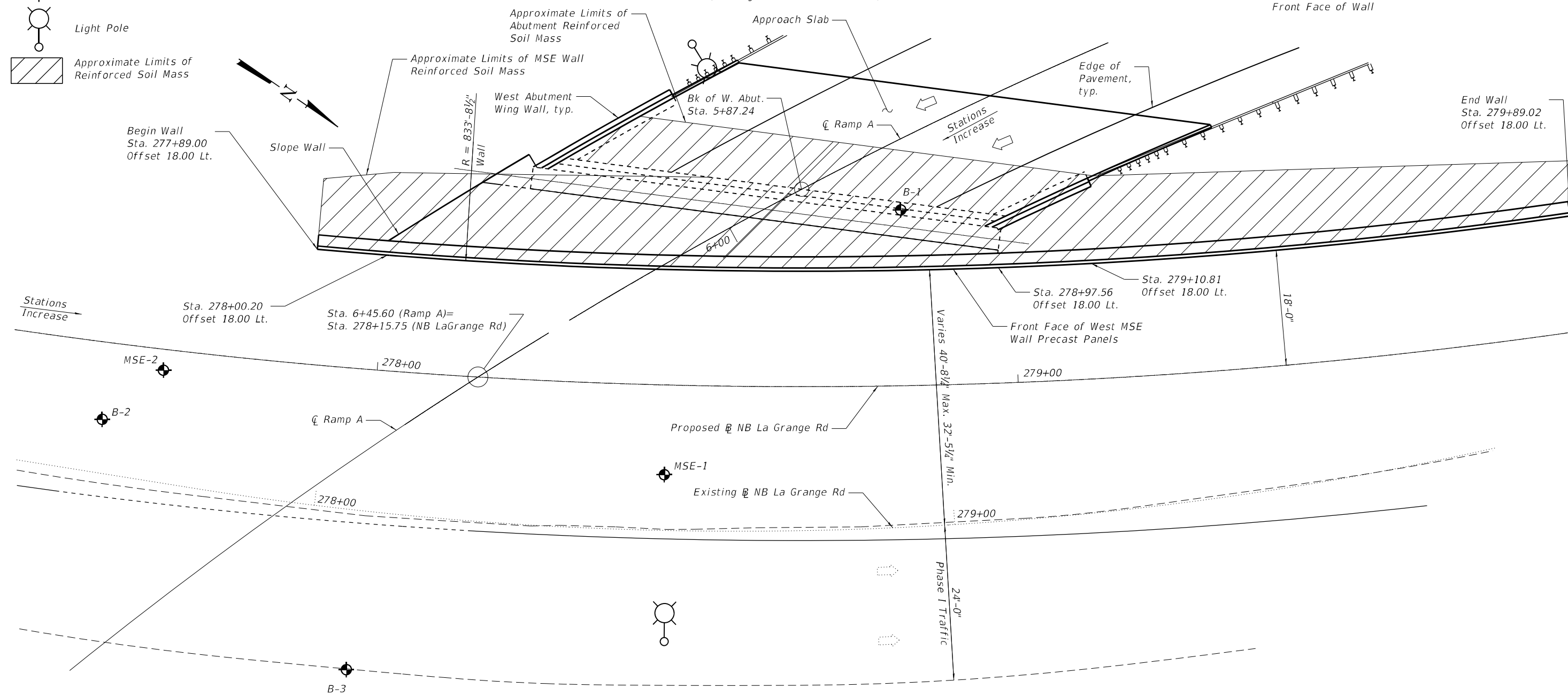
Wall offsets are measured from the PGL to the front face of precast panels.

LEGEND

- Soil Boring
- Light Pole
- Approximate Limits of Reinforced Soil Mass

ELEVATION

(Looking at Front Face of Wall)



PLAN

MODEL: Default
FILE NAME: p:\v\primeira-pw\ben\key.com\primeira-pw\011\Documents\011\Projects\2020\20200432.00 - IL 171 at LaGrange Road\Drawings\Current Drawing Files\CADD_Sheets\Structural\019\135720-shr-28-WestMSE



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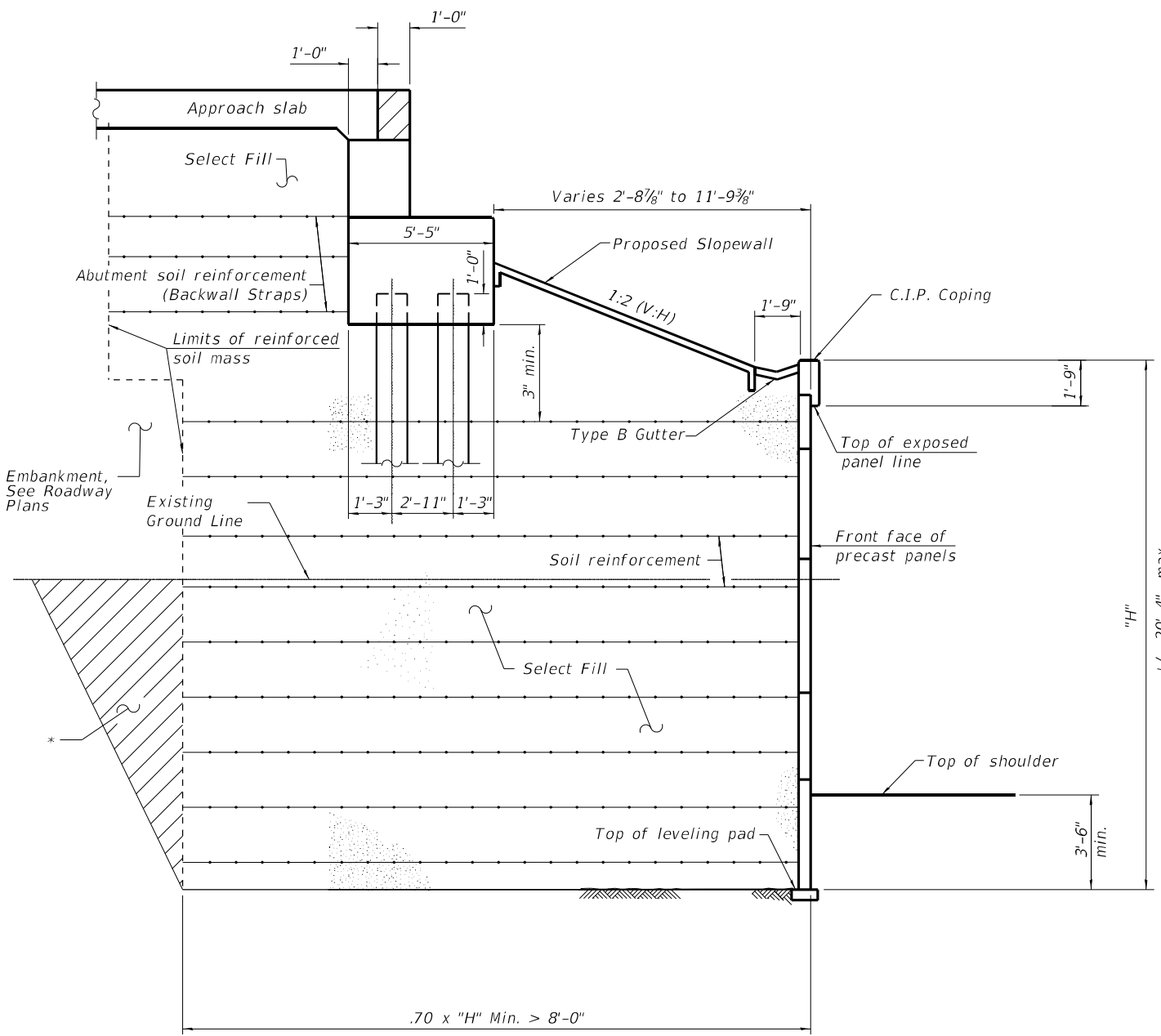
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST MSE WALL GENERAL PLAN & ELEVATION
STRUCTURE NO. 016-2757

SHEET 528 OF 538 SHEETS

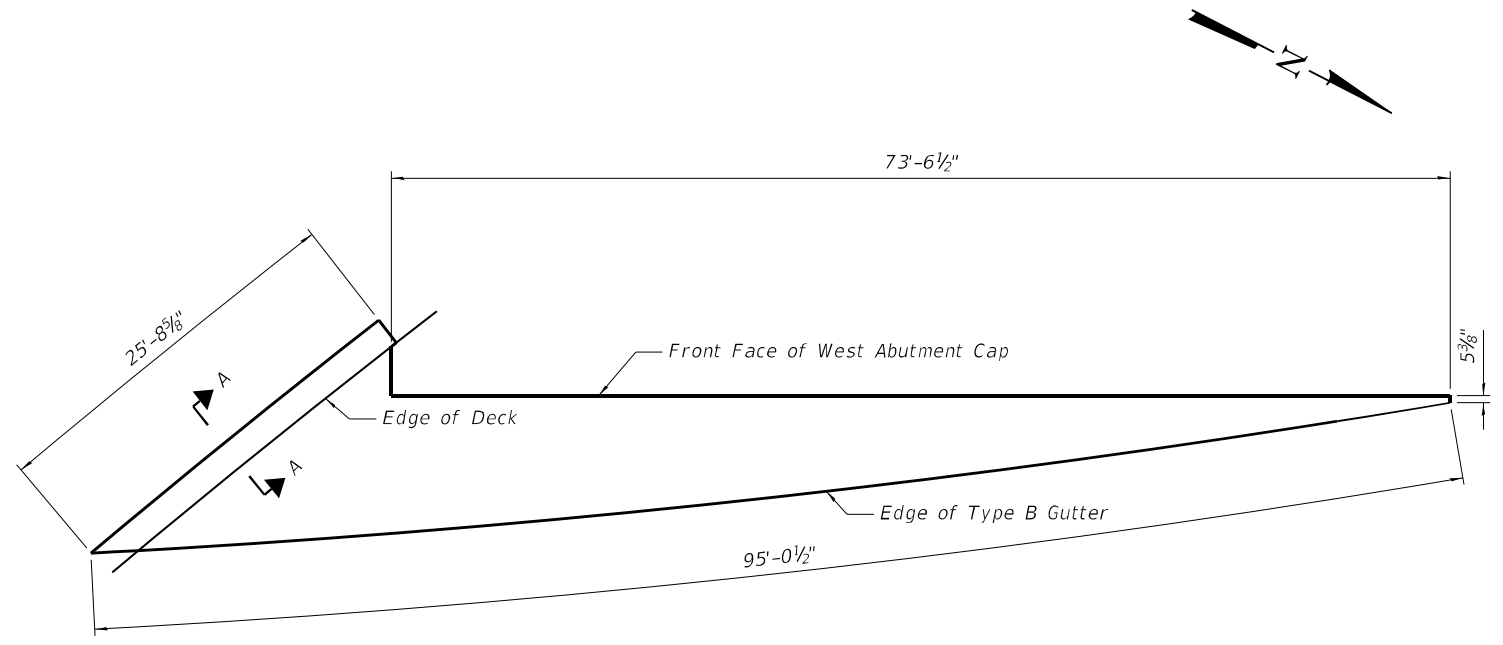
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	105
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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**SECTION THRU
 MSE WALL AT WEST ABUTMENT**

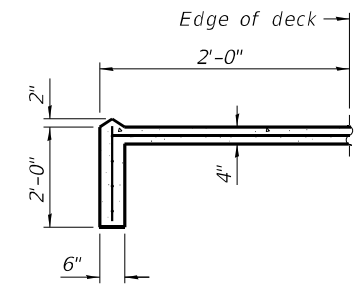
* Overexcavation beyond structure excavation. This area not measured for payment. Backfill overexcavation with same material used for select fill used in MSE wall.



SLOPEWALL PLAN

NOTES:

1. The MSE wall supplier shall design the abutment soil reinforcement (Backwall Straps) to resist a horizontal service force of:
 3.35 k/ft of abutment for Earth load and surcharge load
 2.01 k/ft of abutment for Longitudinal forces on bridge
2. Slopewall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, k/ft weighing 58 lbs. per 100 sq. ft.



SECTION A-A



USER NAME =	DESIGNED - JSR	REVISED -
	CHECKED - RO	REVISED -
PLOT SCALE =	DRAWN - JSR	REVISED -
PLOT DATE =	CHECKED - RO	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

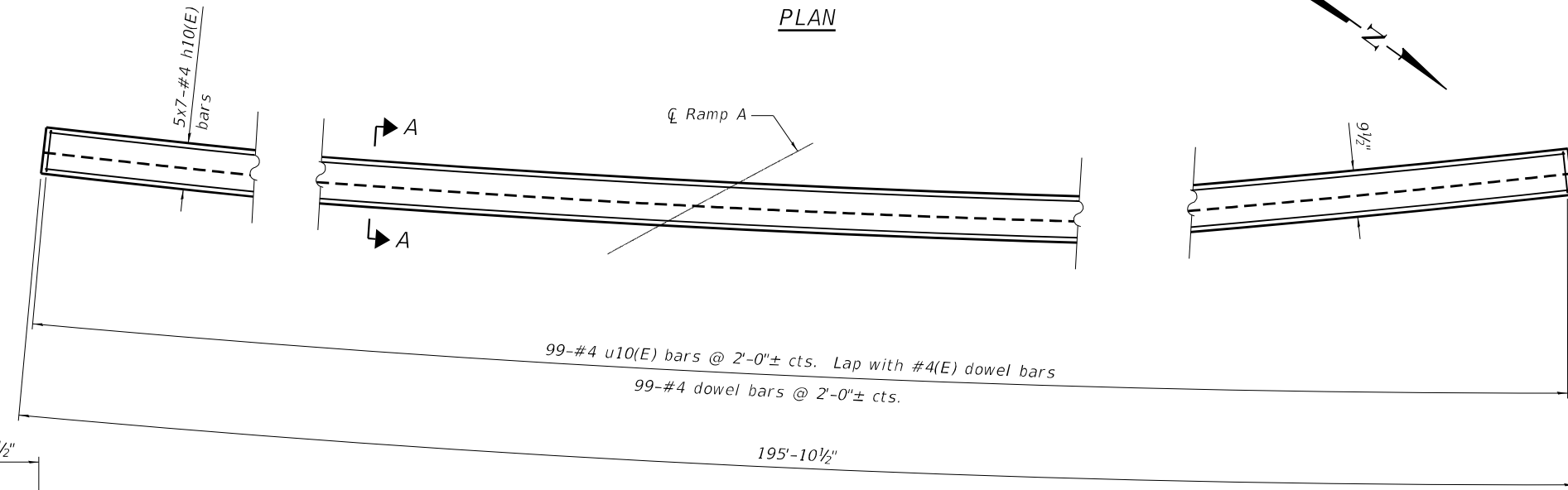
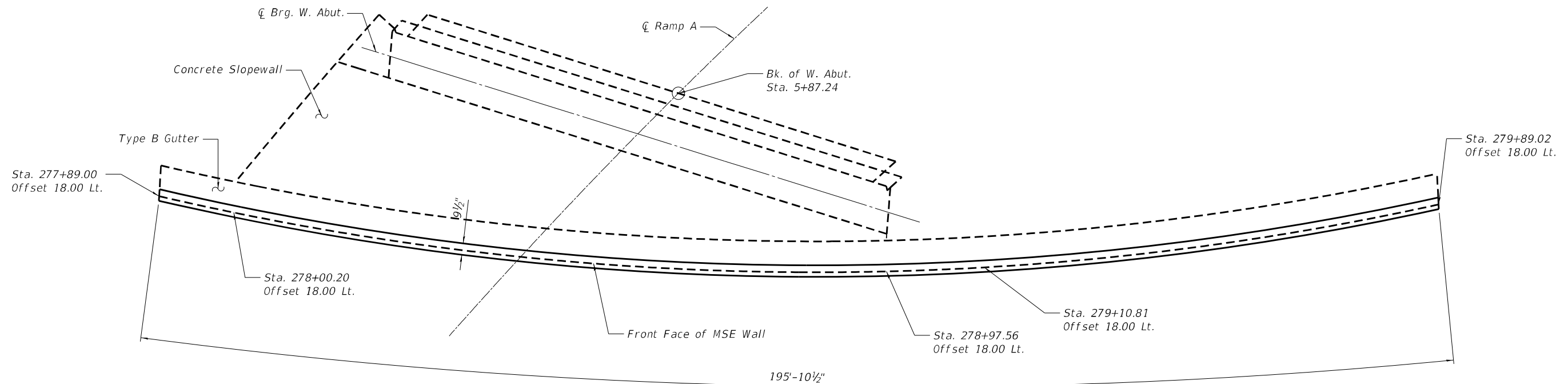
**WEST MSE WALL SECTIONS
 STRUCTURE NO. 016-2757**

SHEET 529 OF 538 SHEETS

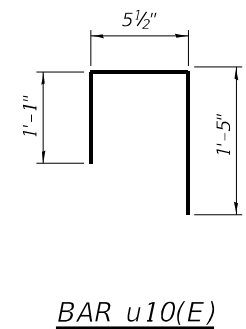
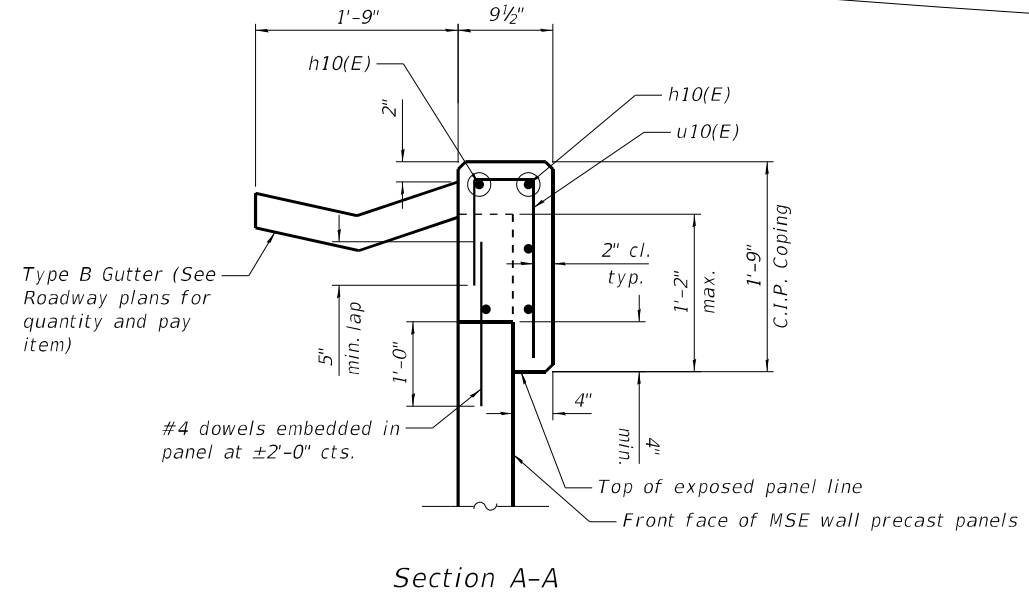
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	106
CONTRACT NO. 62K60				

ILLINOIS FED. AID PROJECT

MODEL: Default
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MIN. BAR LAP
 #4 - 2'-11"



BAR LIST
 (FOR INFORMATION ONLY)

Bar	No.	Size	Length	Shape
h10(E)	35	#4	30'-6"	—
u10(E)	99	#4	3'-0"	⌊

BILL OF MATERIAL

Item	Unit	Quantity
Mechanically Stabilized Earth Retaining Wall	SQ FT	2,736
Slope Wall, 4 inch	SQ YD	71

NOTES:
 The cost of the cast-in-place concrete coping, reinforcement bars, preformed joint filler, and dowel bars will be included with the bid pay item "Mechanically Stabilized Earth Retaining Wall." The Contractor may substitute a precast coping, the details of which must be included in the shop plans and approved by the Engineer, at no additional cost to the Department.



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

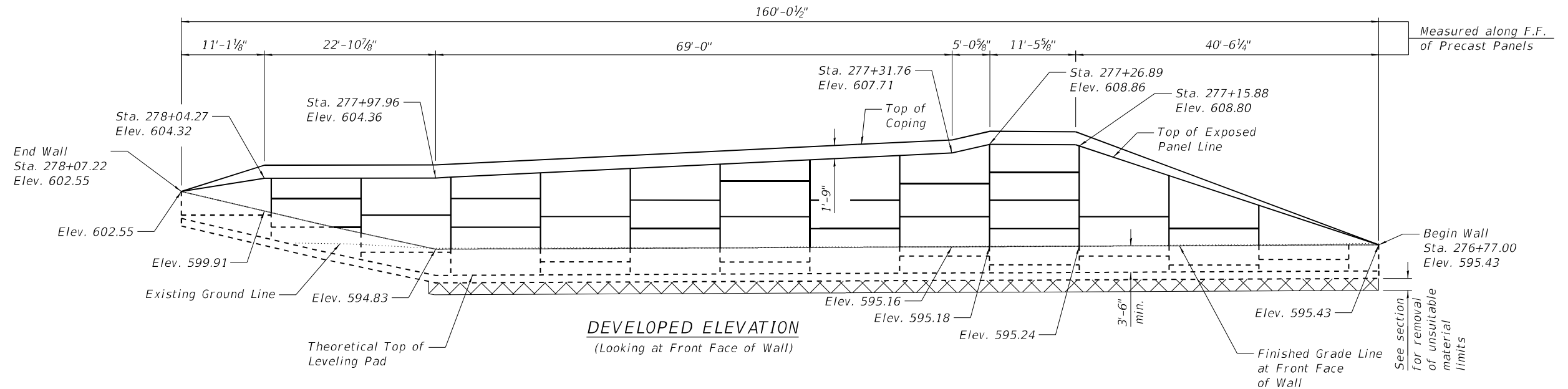
WEST MSE WALL COPING DETAILS
 STRUCTURE NO. 016-2757

SHEET 530 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	107
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

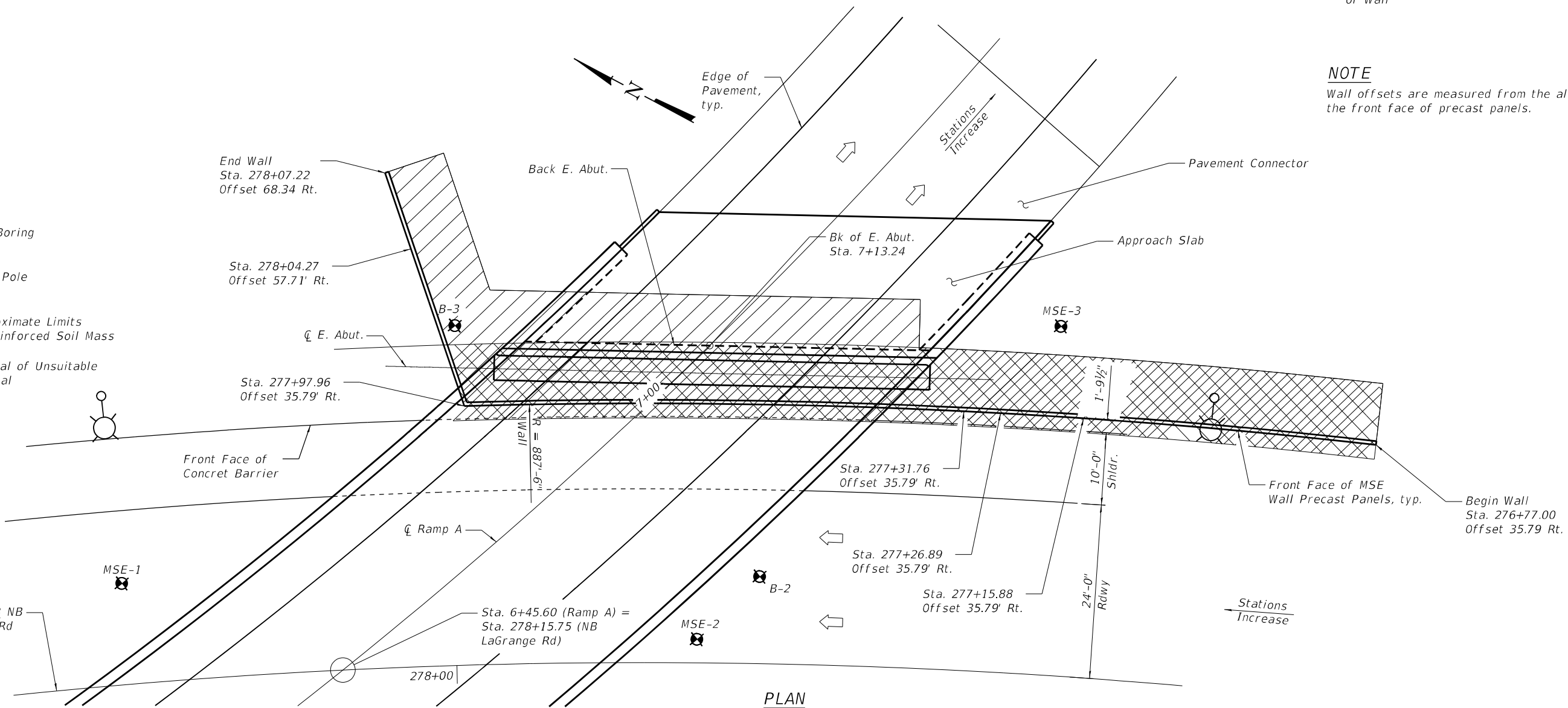
Benchmark: Chiseled \square on the east corner of the headwall on the south side of I-294 and east side of NB US 45 on the ramp.

Existing Structure: None



NOTE
Wall offsets are measured from the alignment to the front face of precast panels.

- LEGEND**
- Soil Boring
 - Light Pole
 - Approximate Limits of Reinforced Soil Mass
 - Removal of Unsuitable Material



MODEL: Default
FILE NAME: p:\w\primera-pw\ben\p\011\Documents\011\Projects\2020\20200432.00 - IL 171 at LaGrange Road\Drawings\Current Drawing Files\CADD_Sheets\Structural\019\135720-sh1-3-1-EastMSE



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PLOT DATE =	CHECKED - RO	REVISED -

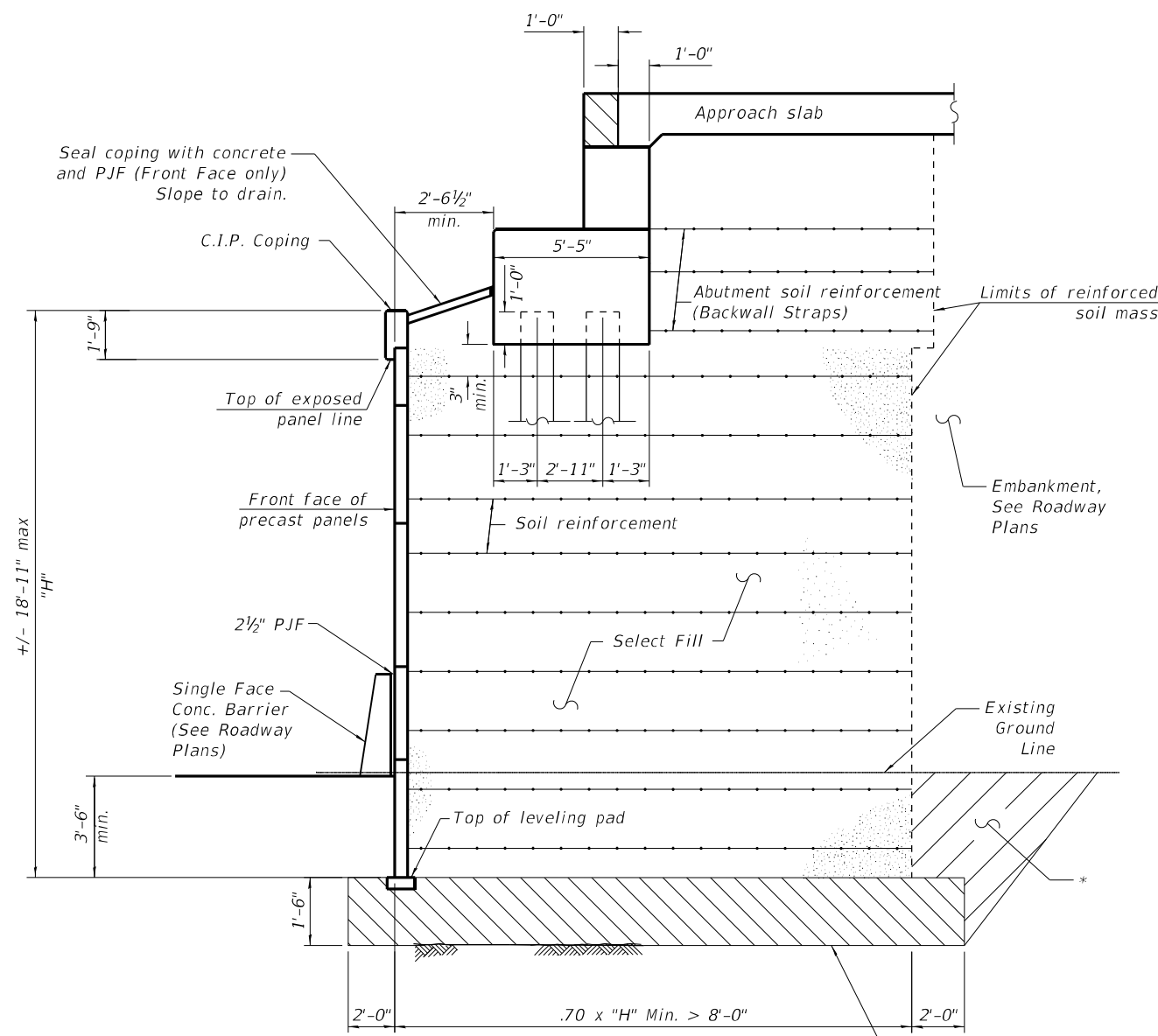
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST MSE WALL GENERAL PLAN & ELEVATION
STRUCTURE NO. 016-2757**

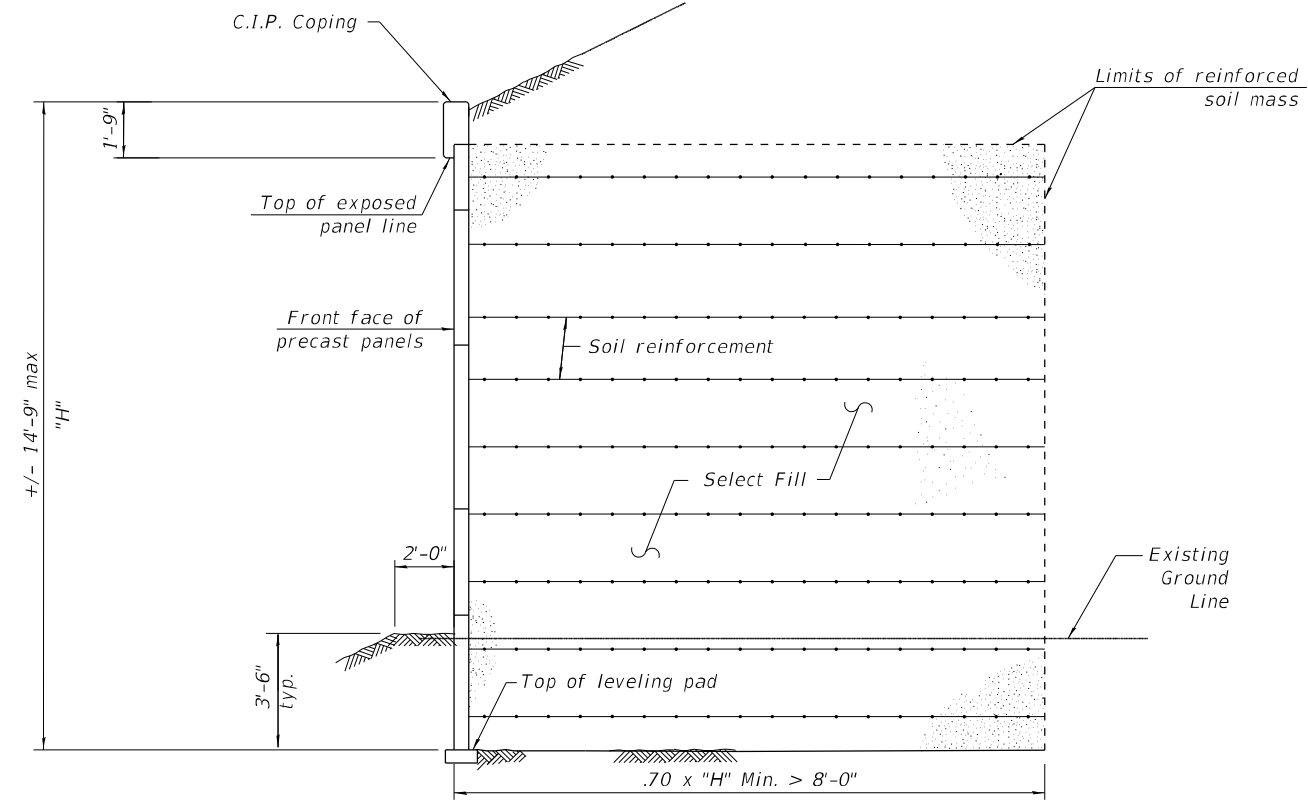
SHEET 531 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	108
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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**SECTION THRU
 MSE WALL AT EAST ABUTMENT
 STA. 276+77.00 TO STA. 277+97.96**



**SECTION THRU MSE WALL
 STA. 277+97.96 TO STA. 278+07.22**

* Overexcavation beyond structure excavation. This area not measured for payment. Backfill overexcavation with same material used for select fill used in MSE wall.

NOTES:

- The MSE wall supplier shall design the abutment soil reinforcement (Backwall Straps) to resist a horizontal service force of:
 2.97 k/ft of abutment for Earth load and surcharge load
 0.84 k/ft of abutment for Longitudinal forces on Bridge



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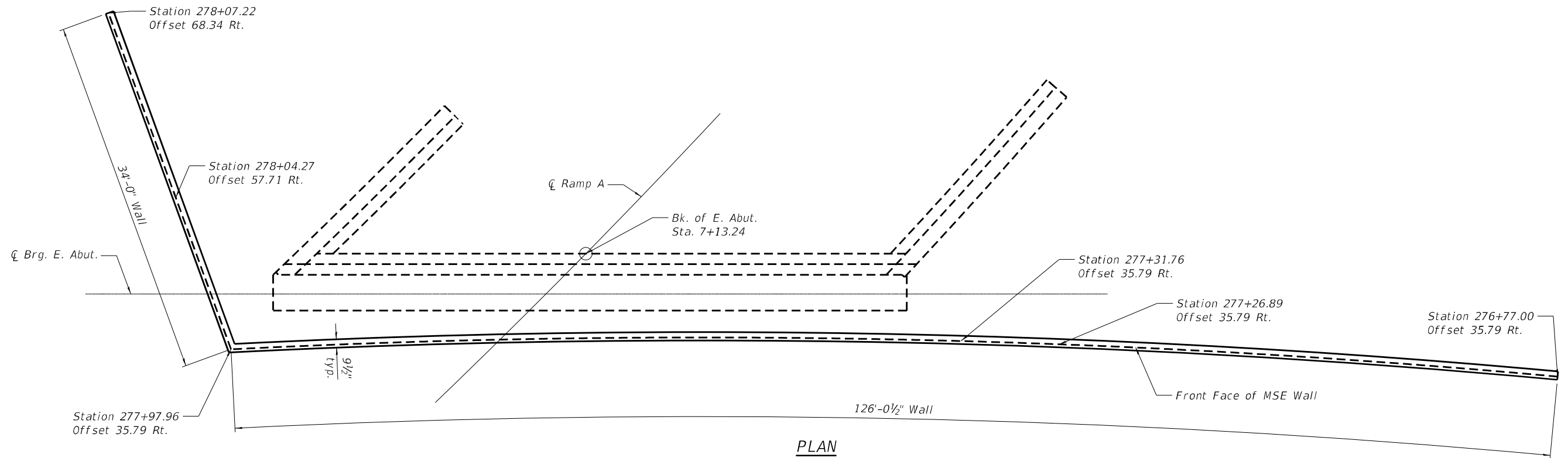
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST MSE WALL DETAILS
 STRUCTURE NO. 016-2757**

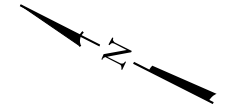
SHEET 532 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	109
CONTRACT NO. 62K60			ILLINOIS FED. AID PROJECT	

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PLAN



MIN. BAR LAP
 #4 - 2'-11"

BAR LIST
 (FOR INFORMATION ONLY)

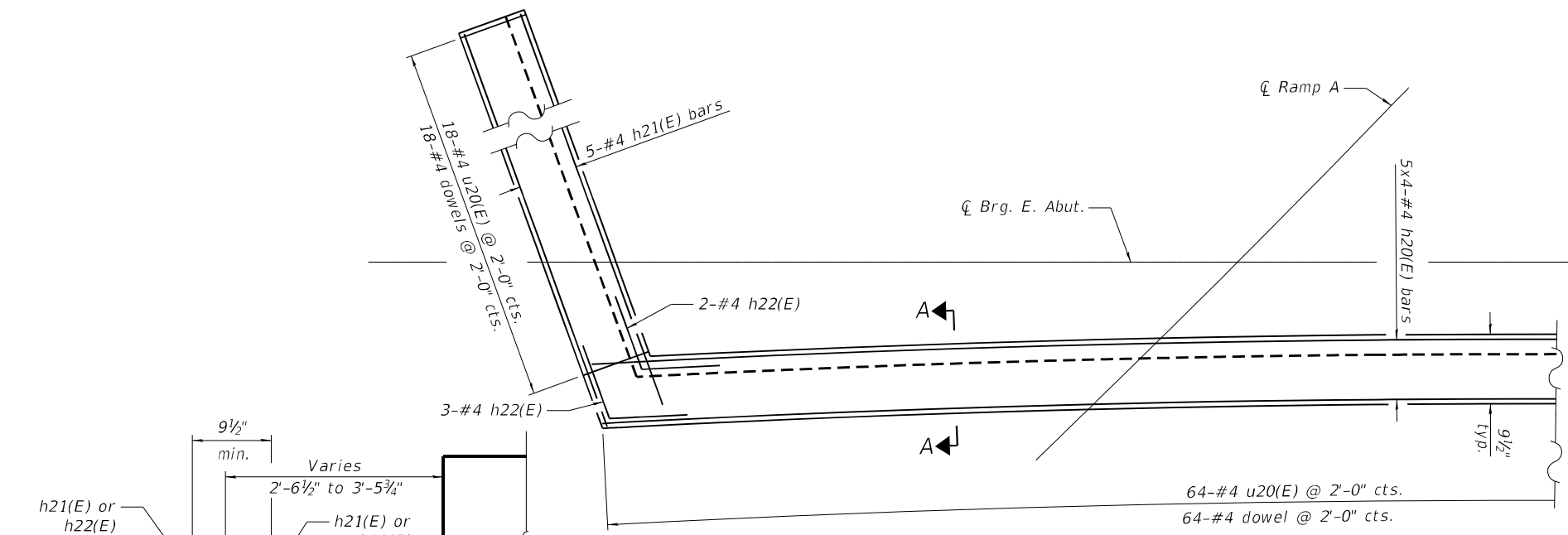
Bar	No.	Size	Length	Shape
h20(E)	20	#4	34'-0"	▬
h21(E)	5	#4	34'-1"	▬
h22(E)	5	#4	5'-8"	└
u20(E)	82	#4	3'-0"	└

BILL OF MATERIAL

Item	Unit	Quantity
Mechanically Stabilized Earth Retaining Wall	SQ FT	2,291
Porous Granular Embankment	CU YD	115
Removal and Disposal of Unsuitable Material for Structures	CU YD	115

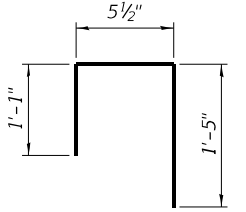
NOTE:

The cost of the concrete coping seal, cast-in-place concrete coping, reinforcement bars, preformed joint filler, and dowel bars will be included with the bid pay item "Mechanically Stabilized Earth Retaining Wall." The Contractor may substitute a precast coping, the details of which must be included in the shop plans and approved by the Engineer, at no additional cost to the Department.

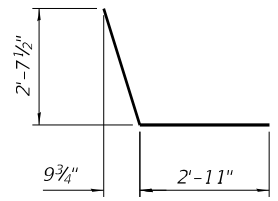


PLAN

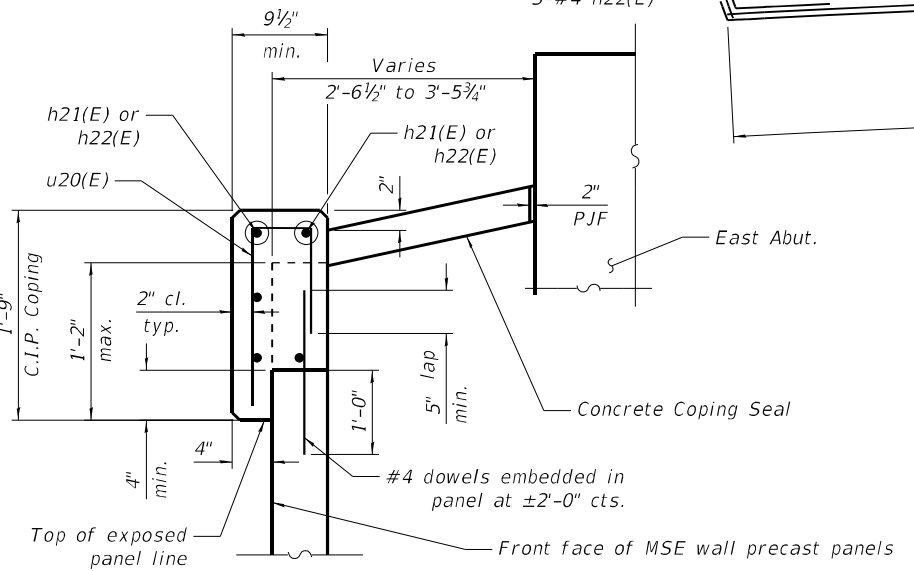
(Showing reinforcement)



BAR u20(E)



BAR h22(E)



Section A-A



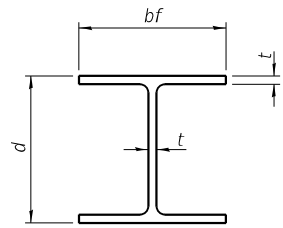
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EAST MSE WALL COPING DETAILS
 STRUCTURE NO. 016-2757

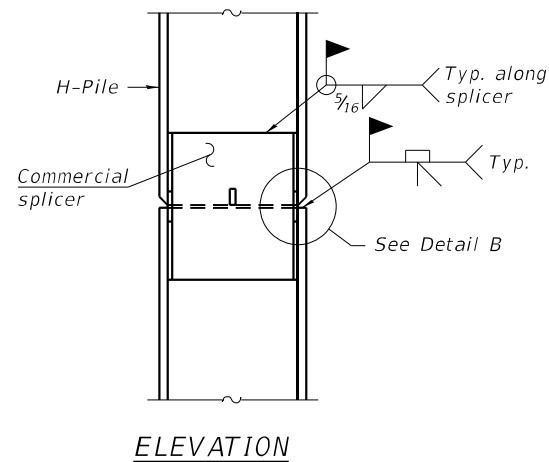
SHEET 533 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	110
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

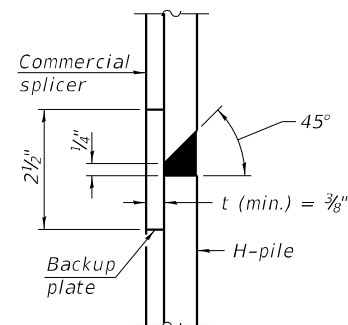


STEEL PILE TABLE

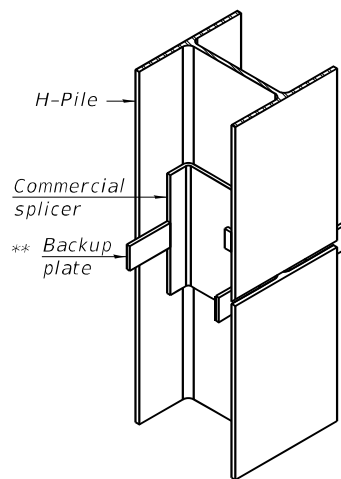
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

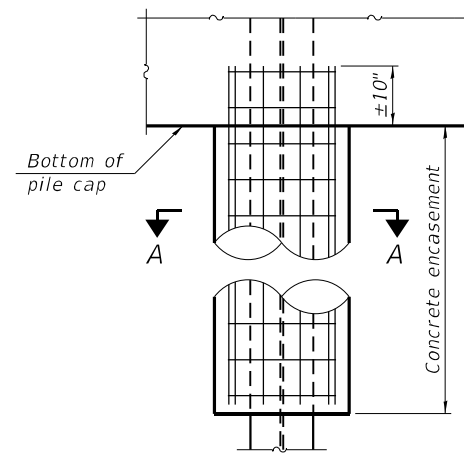


DETAIL "B"

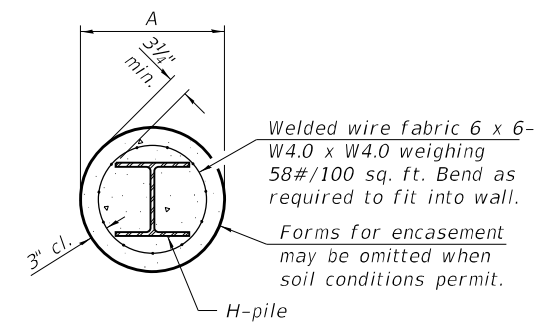


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

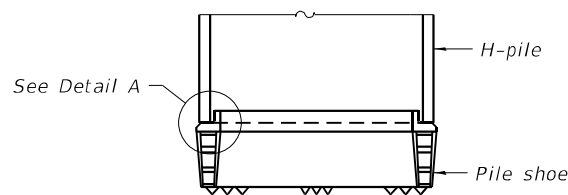


ELEVATION

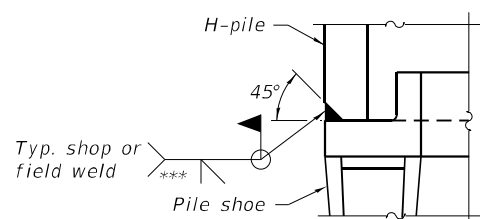


SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASUREMENT
(when specified)



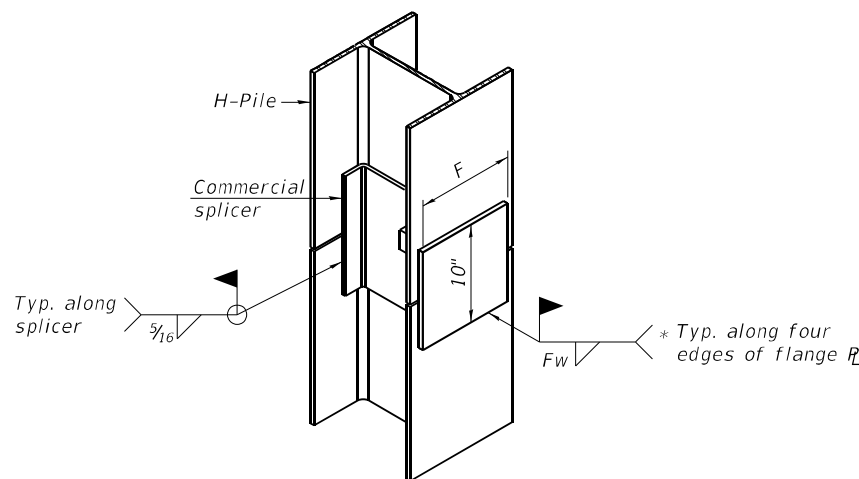
ELEVATION



DETAIL A

SHOE ATTACHMENT

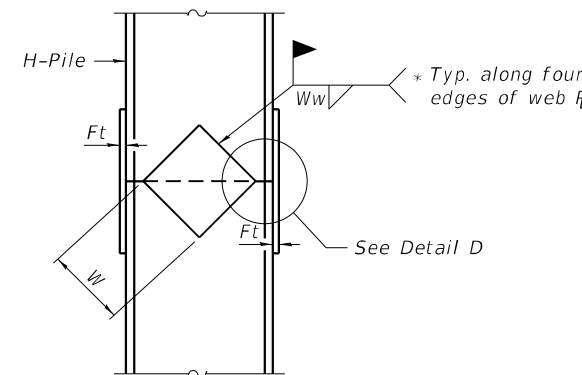
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



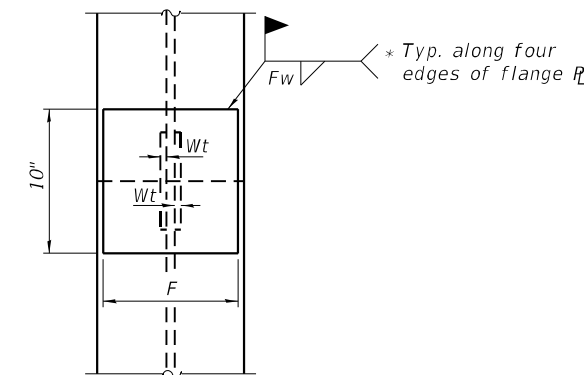
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

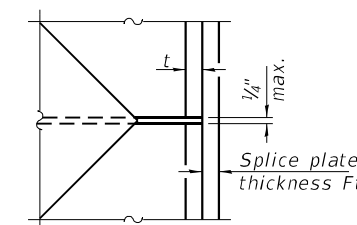
- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

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F-HP 2-1-2023



USER NAME	DESIGNED	REVISIONS
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	- RO	-
PLOT SCALE	DRAWN - JSR	REVISIONS
	-	-
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	-	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 016-2757

SHEET 534 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	111
CONTRACT NO. 62K60				
ILLINOIS		FED. AID PROJECT		



**B-2
ROCK CORE LOG**

COUNTY Cook
SECTION N/A
ROUTE IL-171
MPS PROJECT NO. ME21043
DATE 2/8/22

DESCRIPTION La Grange Road, Phase II DISTRICT 1
LOCATION Chicago, Illinois CONSULTANT Millennium Professional Services
DRILLED BY TSC LOGGED BY L. Williams RIG TYPE CME 75
CORING METHOD Diamond tipped core barrel

BORING NO. B-2 CORING BARREL TYPE & SIZE NQ
Notes No Offset
Offset ft
Northing 1850130.95 Core Diameter 1.9 in
Easting 1115507.26 Top of Rock Elev. 538.20 ft
Ground Surface Elev. 594.20 ft Begin Core Elev. 538.20 ft

DEPTH (ft)	RECOVERY (%)	COVERAGE (%)	RECORDED (%)	QUANTITY (min/ft)	STRENGTH (tsf)
538.20	56	1	100	91	
61.5	2	100	100		
66.2	3	100	100		
522.80					

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)



**B-3
SOIL BORING LOG**

COUNTY Cook
SECTION N/A
ROUTE IL-171
MPS PROJECT NO. ME21043
DATE 1/27/2022

DESCRIPTION La Grange Road, Phase II DISTRICT 1
LOCATION Chicago, Illinois CONSULTANT Millennium Professional Services
DRILLED BY TSC LOGGED BY L. Williams RIG TYPE CME 75
DRILLING METHOD CFA, Mud Rotary, Rock Core HAMMER TYPE Auto EFFICIENCY N/A

BORING NO. B-3
Notes No Offset
Offset ft
Northing 1850184.39
Easting 1115517.95
Ground Surface Elev. 596.1 ft

DEPTH (ft)	RECOVERY (%)	COVERAGE (%)	RECORDED (%)	QUANTITY (min/ft)	STRENGTH (tsf)
595.35	0.75				
593.10	3				
573.10	23				
566.10	30				
563.10	33				
580.60	15.5				

The Unconfined Compressive Strength (UCS) Qu column represents either the IDOT Rimac or AASHTO T 208 Test Procedure. The Qu failure mode is indicated by B for Bulge or S for Shear. P is a Pocket Penetrometer test. The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.
Printed 8/26/2022



**B-3
SOIL BORING LOG**

COUNTY Cook
SECTION N/A
ROUTE IL-171
MPS PROJECT NO. ME21043
DATE 1/27/2022

DESCRIPTION La Grange Road, Phase II DISTRICT 1
LOCATION Chicago, Illinois CONSULTANT Millennium Professional Services
DRILLED BY TSC LOGGED BY L. Williams RIG TYPE CME 75
DRILLING METHOD CFA, Mud Rotary, Rock Core HAMMER TYPE Auto EFFICIENCY N/A

BORING NO. B-3
Notes No Offset
Offset ft
Northing 1850184.39
Easting 1115517.95
Ground Surface Elev. 596.1 ft

DEPTH (ft)	RECOVERY (%)	COVERAGE (%)	RECORDED (%)	QUANTITY (min/ft)	STRENGTH (tsf)
554.35	41.75				
549.35	46.75				
544.35	51.75				
539.35	56.75				
536.10	60				

Borehole continued with rock
The Unconfined Compressive Strength (UCS) Qu column represents either the IDOT Rimac or AASHTO T 208 Test Procedure. The Qu failure mode is indicated by B for Bulge or S for Shear. P is a Pocket Penetrometer test. The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.
Printed 8/26/2022

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(Sheet 2 of 4)



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
STRUCTURE NO. 016-2757
SHEET 536 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	113
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K60	



B-3
ROCK CORE LOG
 Sheet 3 of 3
 COUNTY Cook
 SECTION N/A
 ROUTE IL-171
 MPS PROJECT NO. ME21043
 DATE 1/27/22

DESCRIPTION La Grange Road, Phase II DISTRICT 1
 LOCATION Chicago, Illinois CONSULTANT Millennia Professional Services
 DRILLED BY TSC LOGGED BY L. Williams RIG TYPE CME 75
 CORING METHOD Diamond tipped core barrel

BORING NO. B-3 CORING BARREL TYPE & SIZE NQ
 Notes No Offset
 Offset ft
 Core Diameter 1.9 in
 Northing 1850184.39 Top of Rock Elev. 536.10 ft
 Easting 1115517.95 Begin Core Elev. 536.10 ft
 Ground Surface Elev. 596.10 ft

DESCRIPTION	DEPTH (ft)	CORRECTION (%)	RECOVERY (%)	CORE DIAMETER (in)	SPT N	UCS (tsf)
DOLOMITE: Grey, moderately hard to hard, moderately fractured, trace stylolites	536.10	60	1	100	98	
- Mohs' hardness = 3.5						
- mottled grey and light grey, hard, highly weathered, slightly pitted, slightly vuggy, trace clay-filled fractures below 63.0 ft.						
- Mohs' hardness = 4.5						
End of Boring	521.10					

Color pictures of the cores _____
 Cores will be stored for examination until _____
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)



B-4
SOIL BORING LOG
 Sheet 1 of 1
 COUNTY Cook
 SECTION N/A
 ROUTE IL-171
 MPS PROJECT NO. ME21043
 DATE 1/26/2022

DESCRIPTION La Grange Road, Phase II DISTRICT 1
 LOCATION Chicago, Illinois CONSULTANT Millennia Professional Services
 DRILLED BY TSC LOGGED BY L. Williams RIG TYPE CME 75
 CORING METHOD CFA HAMMER TYPE Auto EFFICIENCY N/A

BORING NO. B-4
 Notes No Offset
 Offset ft
 Core Diameter 1.9 in
 Northing 1850121.58 Top of Rock Elev. 596.2 ft
 Easting 1115618.96 Begin Core Elev. 596.2 ft
 Ground Surface Elev. 619.2 ft

LITHOLOGY	DEPTH (ft)	CORRECTION (%)	RECOVERY (%)	CORE DIAMETER (in)	SPT N	UCS (tsf)
CONCRETE (11.0')	618.30	0.9				
SILTY CLAY: Brown, very stiff to hard, dry (Possible Fill)						
- brown and grey below 21.0 ft.						
SILT LOAM: Grey, hard, dry, with gravel (Possible Till)	593.70	25.5				
End of Boring	591.20	28				
SILTY CLAY: Black, stiff, dry, with organics, trace brick fragments (Possible Fill)	611.20	8				
SILTY CLAY: Brown to dark brown, stiff, dry	608.70	10.5				
SANDY LOAM: Brown, soft, dry, with gravel	603.70	15.5				
SANDY LOAM: Brown, very dense, unsaturated	601.20	18				
- with gravel and possible cobbles above 20.0 ft.						

The Unconfined Compressive Strength (UCS) Qu column represents either the IDOT Rimac or AASHTO T 208 Test Procedure.
 The Qu failure mode is indicated by B for Bulge or S for Shear. P is a Pocket Penetrometer test. The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.
 Printed 8/26/2022



MSE-1
SOIL BORING LOG
 Sheet 1 of 1
 COUNTY Cook
 SECTION N/A
 ROUTE IL-171
 MPS PROJECT NO. ME21043
 DATE 1/12/2023

DESCRIPTION La Grange Road, Phase II DISTRICT 1
 LOCATION Chicago, Illinois CONSULTANT Millennia Professional Services
 DRILLED BY TSC LOGGED BY E. Dela Cruz RIG TYPE CME 75
 CORING METHOD CFA HAMMER TYPE Auto EFFICIENCY N/A

BORING NO. MSE-1
 Notes No Offset
 Offset ft
 Core Diameter 1.9 in
 Northing 1850184.39 Top of Rock Elev. 593.5 ft
 Easting 1115517.95 Begin Core Elev. 593.5 ft
 Ground Surface Elev. 594.5 ft

LITHOLOGY	DEPTH (ft)	CORRECTION (%)	RECOVERY (%)	CORE DIAMETER (in)	SPT N	UCS (tsf)
CLAY LOAM: Brown, stiff to very stiff, moist, with gravel						
- grey and brown below 21.0 ft.						
SANDY LOAM: Brown, dense to very dense, moist, with gravel	589.00	5.5				
- very stiff to hard, gravelly, with sand below 26.0 ft.						
CLAY LOAM: Brown, very stiff to hard, moist	584.00	10.5				
- with gravel below 13.5 ft.						
- trace gravel below 16.0 ft.						
- stiff to very stiff, sandy below 18.5 ft.						
End of Boring	555.25	39.25				

The Unconfined Compressive Strength (UCS) Qu column represents either the IDOT Rimac or AASHTO T 208 Test Procedure.
 The Qu failure mode is indicated by B for Bulge or S for Shear. P is a Pocket Penetrometer test. The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.
 Printed 1/26/2023

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(Sheet 3 of 4)



USER NAME =	DESIGNED - JSR	REVISED -
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	CHECKED - RO	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
 STRUCTURE NO. 016-2757
 SHEET 537 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	114
CONTRACT NO. 62K60			ILLINOIS FED. AID PROJECT	



MSE-2
SOIL BORING LOG
Sheet 1 of 1

COUNTY Cook
SECTION N/A
ROUTE IL-171
MPS PROJECT NO. ME21043
DATE 1/12/2023

DESCRIPTION La Grange Road, Phase II DISTRICT 1
LOCATION Chicago, Illinois CONSULTANT Millennia Professional Services
DRILLED BY TSC LOGGED BY E. Dela Cruz RIG TYPE CME 75
DRILLING METHOD CFA HAMMER TYPE Auto EFFICIENCY N/A

BORING NO.	Notes	Offset	Latitude	Longitude	Ground Surface Elev.	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	(ft)	(ft)	(/6")	(tsf)	(%)
MSE-2	No Offset				594				577.5	N/A			573.50	20.5			
LITHOLOGY																	
CLAY LOAM: Brown, very stiff to hard, moist, with sand, trace gravel																	
- grey and brown below 3.5 ft.																	
- gravelly below 6.0 ft.																	
SANDY LOAM: Brown, dense, moist, clayey																	
CLAY LOAM: Brown to grey, hard, moist, with sand																	
SANDY LOAM: Grey, loose to medium dense, wet																	
Auger Refusal at 36.0 ft.																	
End of Boring																	

The Unconfined Compressive Strength (UCS) Qu column represents either the IDOT Rimac or AASHTO T 208 Test Procedure. The Qu failure mode is indicated by B for Bulge or S for Shear. P is a Pocket Penetrometer test. The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.

Printed 1/26/2023



MSE-3
SOIL BORING LOG
Sheet 1 of 1

COUNTY Cook
SECTION N/A
ROUTE IL-171
MPS PROJECT NO. ME21043
DATE 1/13/2023

DESCRIPTION La Grange Road, Phase II DISTRICT 1
LOCATION Chicago, Illinois CONSULTANT Millennia Professional Services
DRILLED BY TSC LOGGED BY E. Dela Cruz RIG TYPE CME 75
DRILLING METHOD CFA HAMMER TYPE Auto EFFICIENCY N/A

BORING NO.	Notes	Offset	Latitude	Longitude	Ground Surface Elev.	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	(ft)	(ft)	(/6")	(tsf)	(%)
MSE-3	No Offset				596				585.0	N/A			570.50	25.5			
LITHOLOGY																	
CLAY LOAM: Brown, medium stiff, moist, trace sand																	
- dark brown, with sand below 3.5 ft.																	
- hard, with gravel below 6.0 ft.																	
SANDY CLAY LOAM: Grey, hard, moist																	
- gravelly above 12.5 ft.																	
CLAY LOAM: Grey, hard, moist, trace gravel																	
- grey and brown, trace rock fragments below 28.5 ft.																	
- with weathered rock fragments below 33.5 ft.																	
End of Boring																	

The Unconfined Compressive Strength (UCS) Qu column represents either the IDOT Rimac or AASHTO T 208 Test Procedure. The Qu failure mode is indicated by B for Bulge or S for Shear. P is a Pocket Penetrometer test. The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.

Printed 1/26/2023

SOIL BORING LOCATIONS
Along \bar{C} Ramp A

Boring	Station	Offset
B-1	5+74.9	9.9 (LT)
B-2	6+96.6	27.8 (RT)
B-3	6+89.1	26.1 (LT)
B-4	8+04.3	8.9 (RT)
MSE-1	6+28.6	28.3 (LT)
MSE-2	6+84.8	28.4 (RT)
MSE-3	7+48.2	32.8 (RT)

(Sheet 4 of 4)

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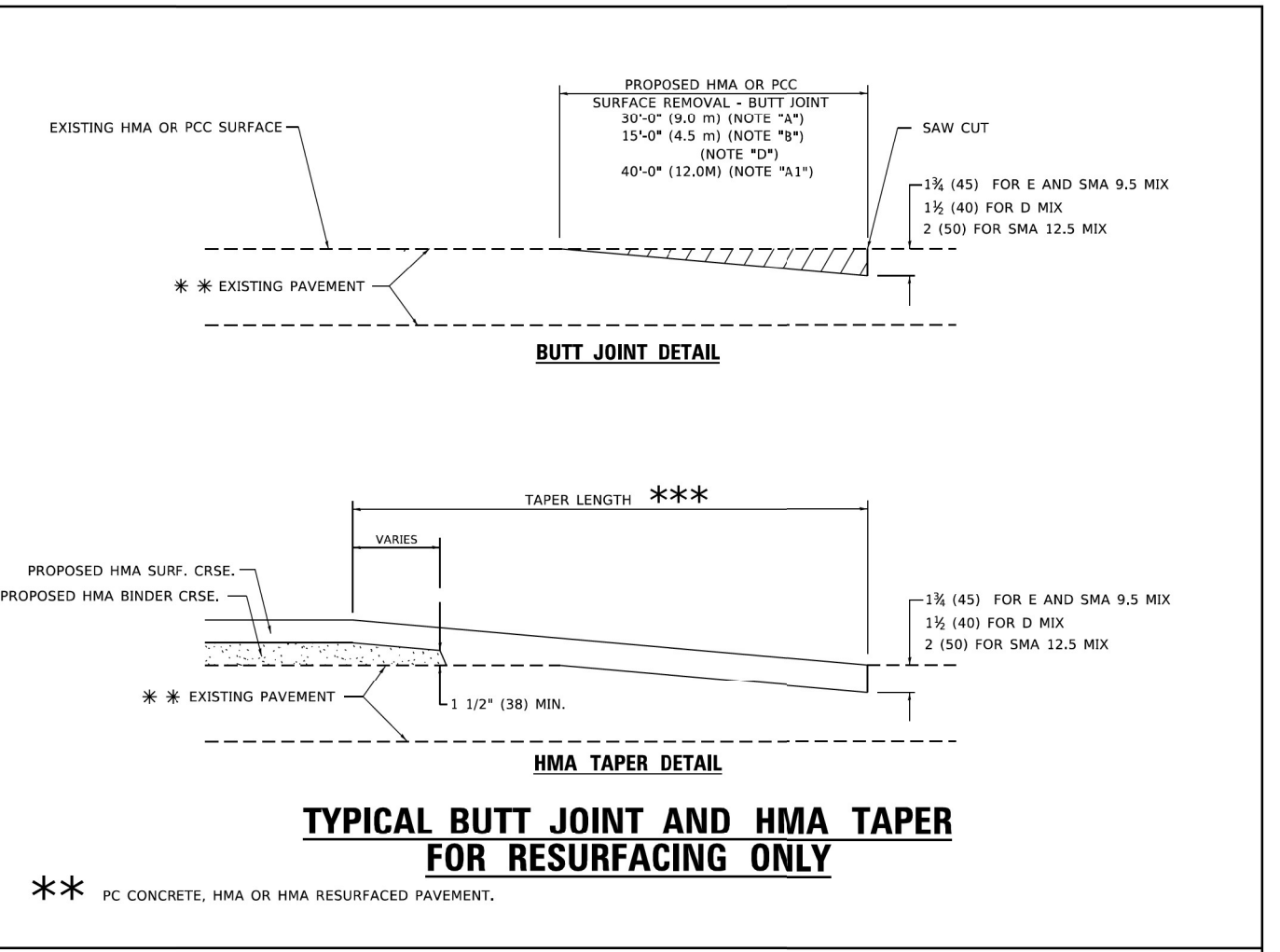
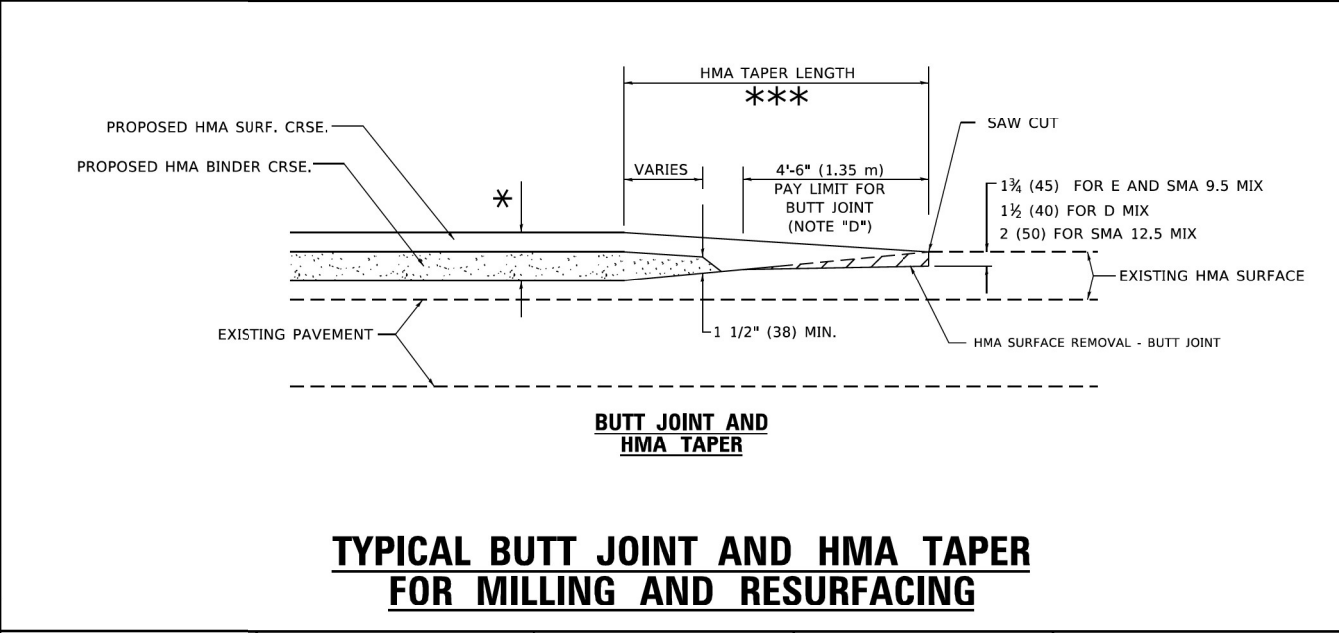
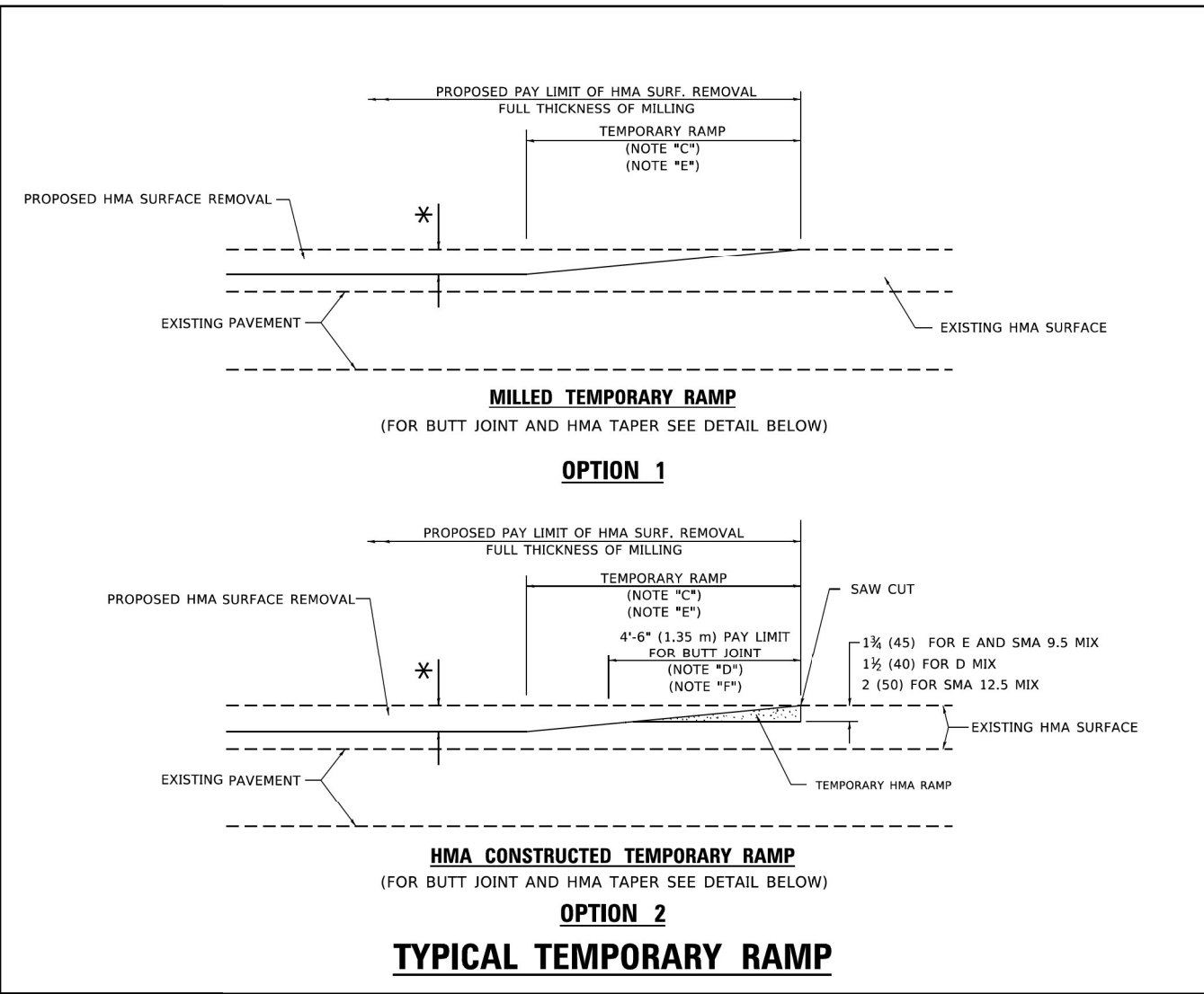
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
STRUCTURE NO. 016-2757

SHEET 538 OF 538 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	115
CONTRACT NO. 62K60			ILLINOIS FED. AID PROJECT	



GENERAL NOTES

- MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- MINOR SIDE ROADS.
- THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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

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PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - R. BORO 01-01-07
		REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BD400-05 BD-32		CONTRACT NO.		
ILLINOIS		FED. AID PROJECT		



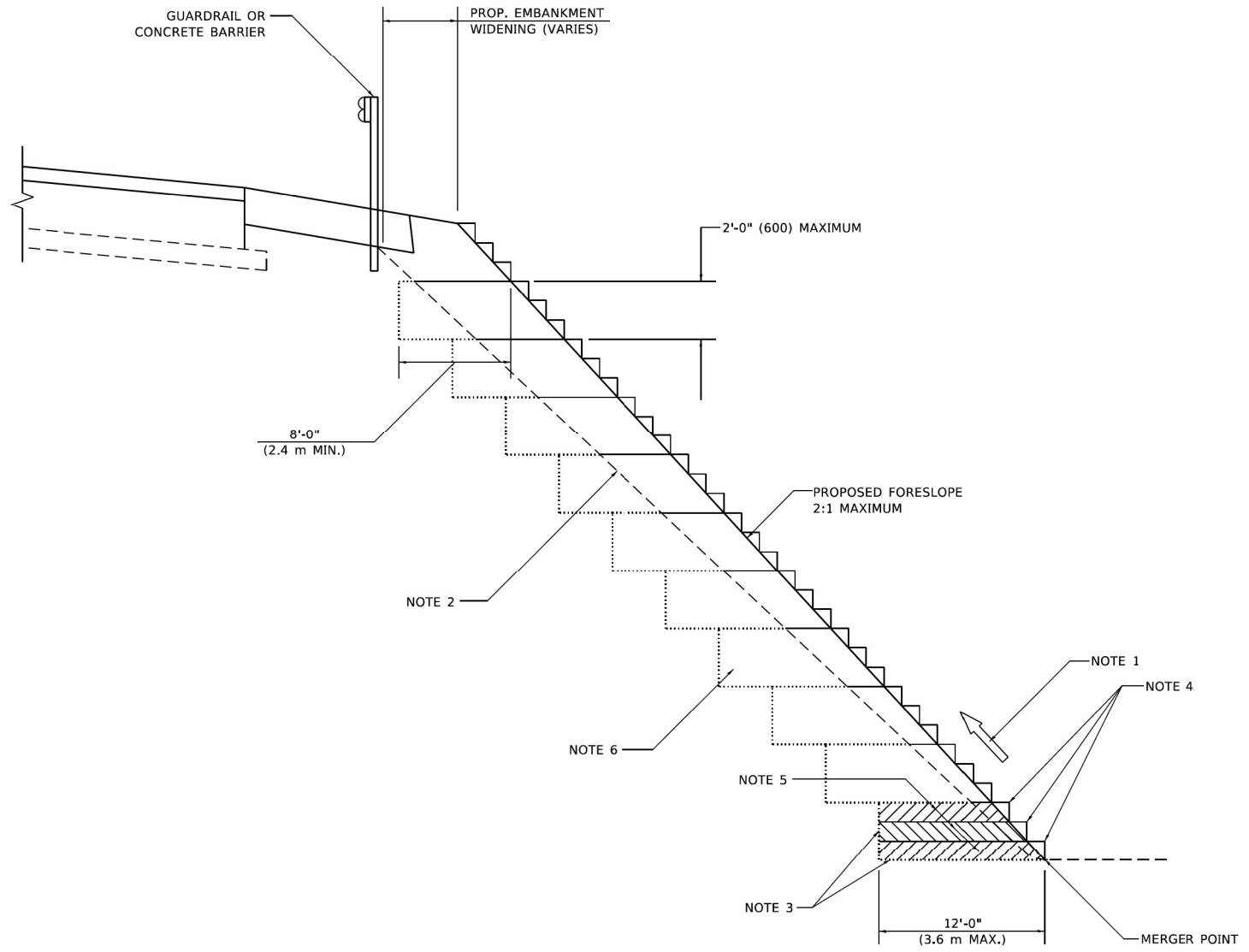
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PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINTS AND HMA TAPER

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	119
		CONTRACT NO. 62K60		
ILLINOIS		FED. AID PROJECT		



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

GENERAL NOTES

1. CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
2. EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
3. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
4. TRIM TO FINAL SLOPE.
5. EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.

BASIS OF PAYMENT

1. EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

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PLOT DATE = 11/18/2022	DATE - 06-16-04	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
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BENCHING DETAIL FOR EMBANKMENT WIDENING			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BD-51		CONTRACT NO.		
ILLINOIS		FED. AID PROJECT		

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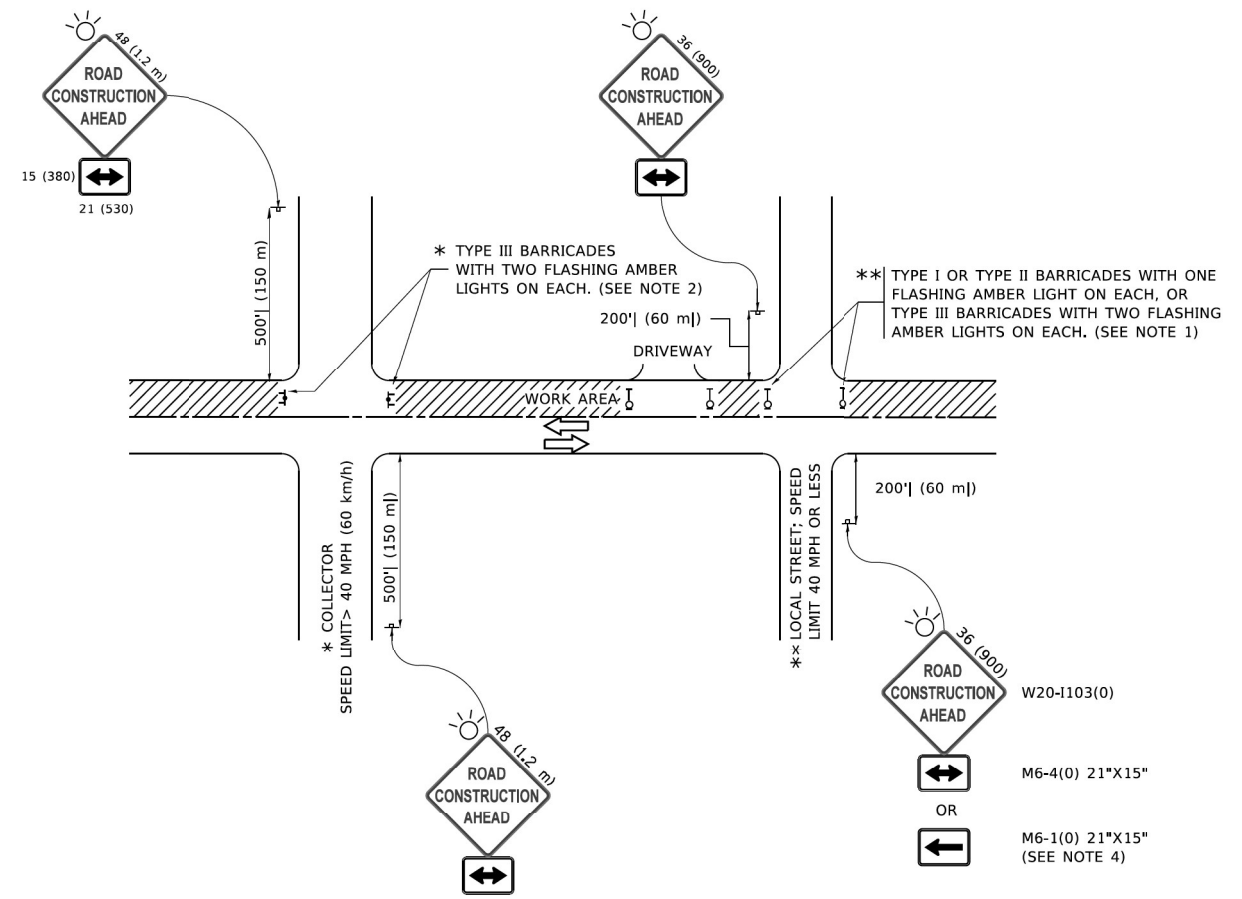
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
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BENCHING DETAIL FOR EMBANKMENT WIDENING			
SCALE:	SHEET	OF	SHEETS
			STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	120
		CONTRACT NO. 62K60		
ILLINOIS		FED. AID PROJECT		

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NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

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

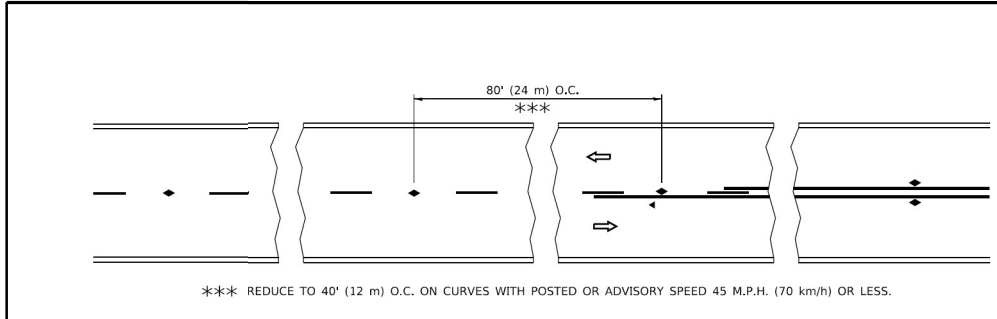
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

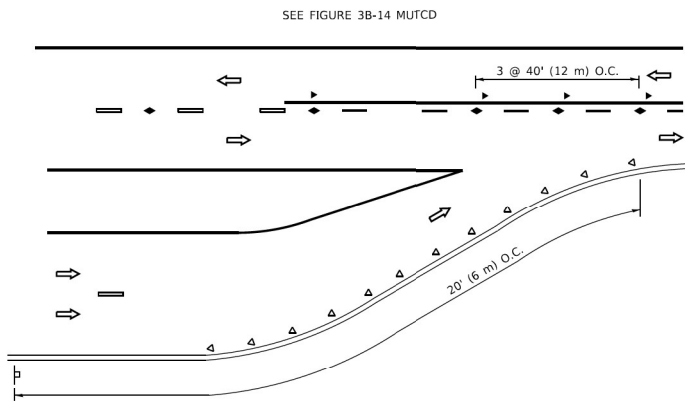
**TRAFFIC CONTROL AND PROTECTION FOR
 SIDE ROADS, INTERSECTIONS AND DRIVEWAYS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 62K60				

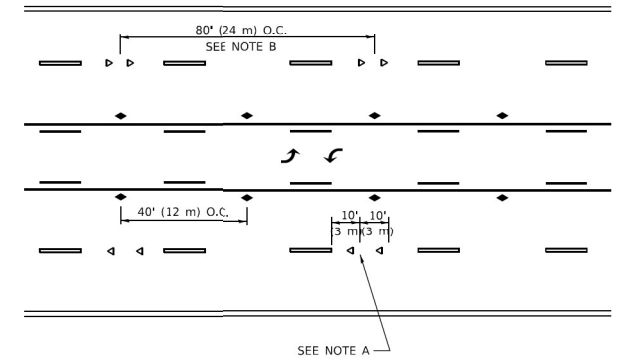




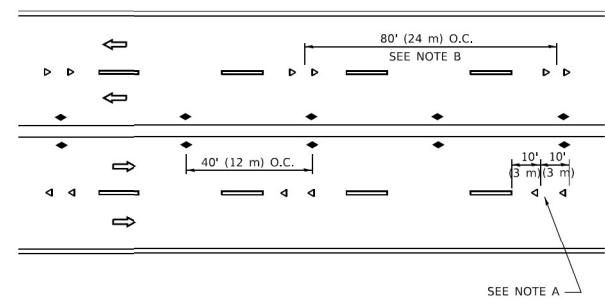
TWO-LANE/TWO-WAY



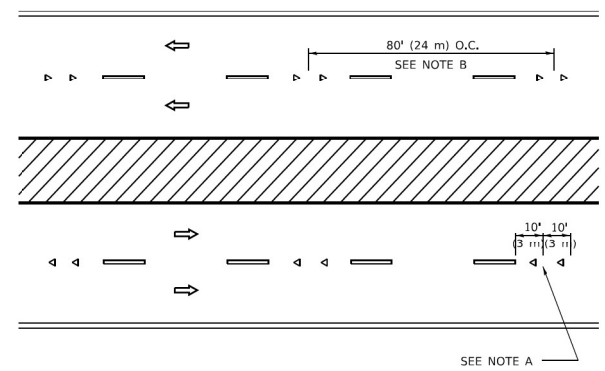
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
- MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

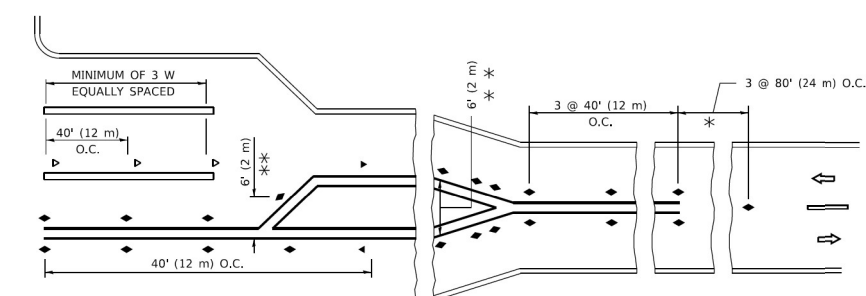
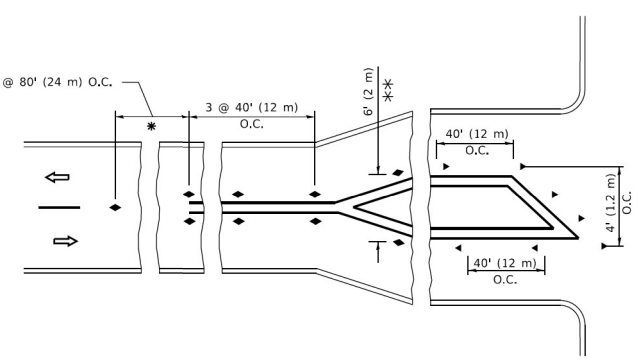
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

- DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
- MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



TURN LANES

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

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 DESIGNED: - T. RAMMACHER 03-12-99
 DRAWN: - T. RAMMACHER 01-06-00
 CHECKED: - C. JUCIUS 09-09-09
 DATE: - C. JUCIUS 07-01-13
 PLOT SCALE: = 50.0000 ' / in.
 PLOT DATE: = 3/4/2019

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PLOT DATE = 3/4/2019	DATE - C. JUCIUS 07-01-13	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	123
CONTRACT NO.				ILLINOIS FED. AID PROJECT

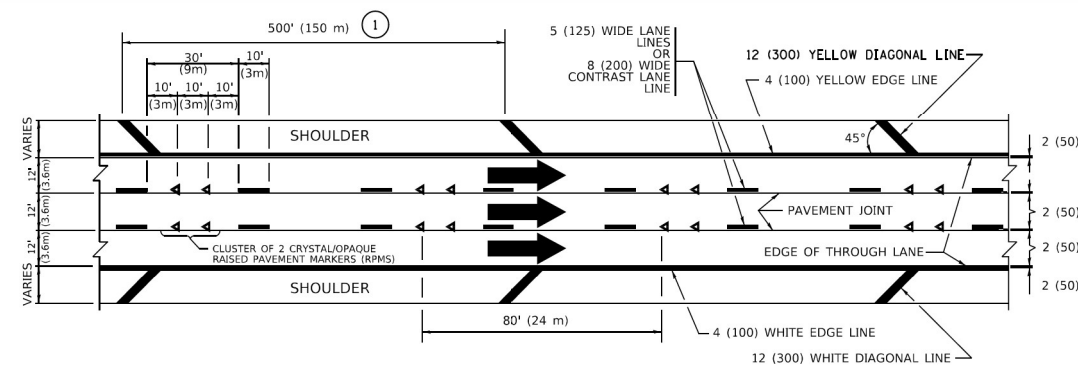
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 USER: Michael.Czerpak
 DESIGNED: - MAC
 DRAWN: - MAC
 CHECKED: - AMB
 DATE: - 10/18/2023
 PLOT SCALE: = 40.0000 ' / in.
 PLOT DATE: = 10/18/2023

**garza karhoff
 ENGINEERING, LLC**

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

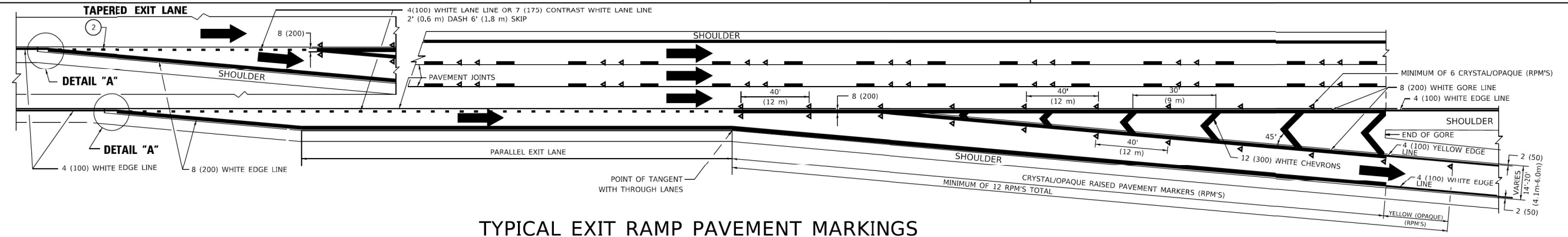
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	123
CONTRACT NO. 62K60				ILLINOIS FED. AID PROJECT



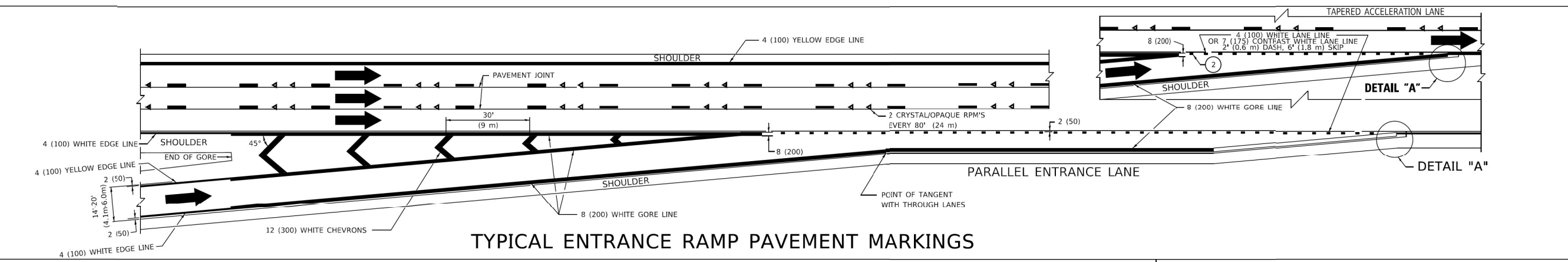
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

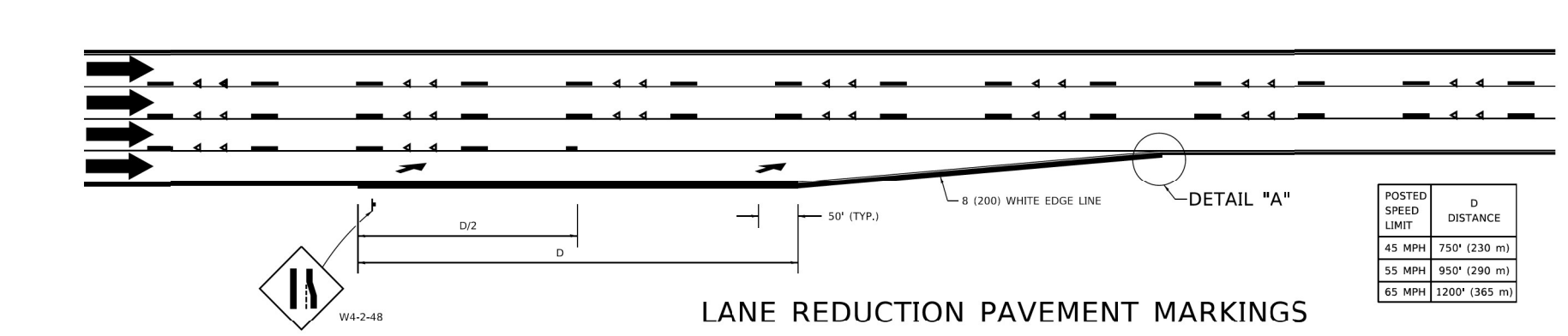
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE D, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

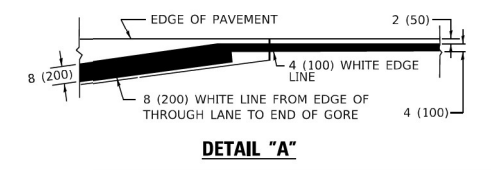


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



- NOTES:
- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
 - ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

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PLOT DATE = 11/18/2022	DATE - 01-90	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			
SCALE: NONE	SHEET 1 OF 2 SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-12			CONTRACT NO.	
ILLINOIS			FED. AID PROJECT	

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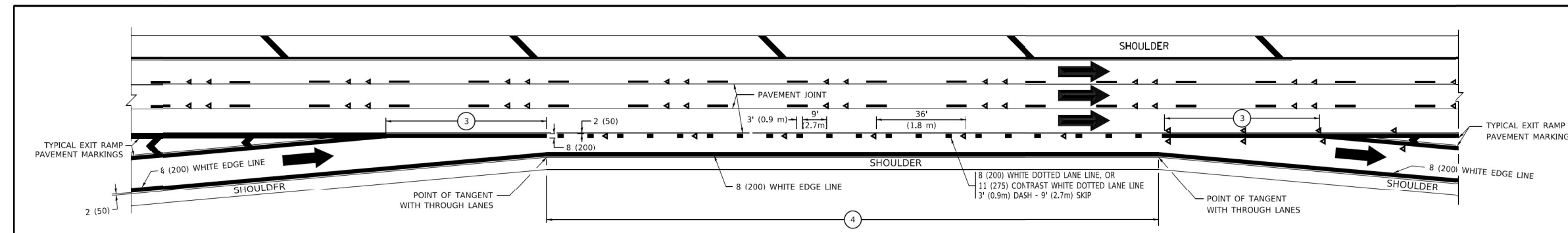
garza karhoff
ENGINEERING, LLC

USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
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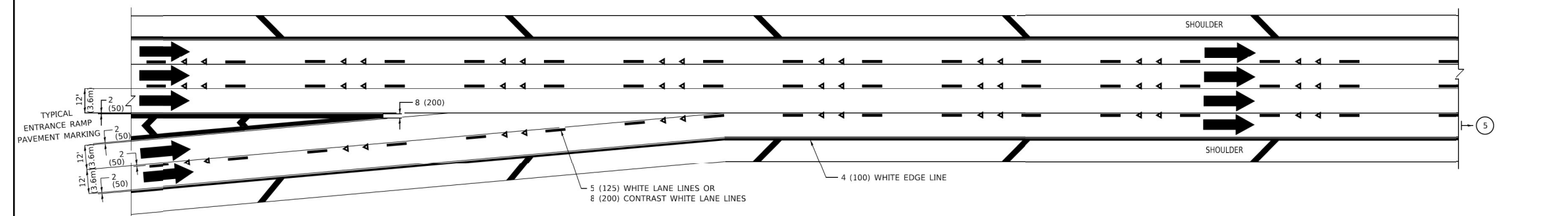
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			
SCALE:	SHEET OF SHEETS	STA. TO STA.	

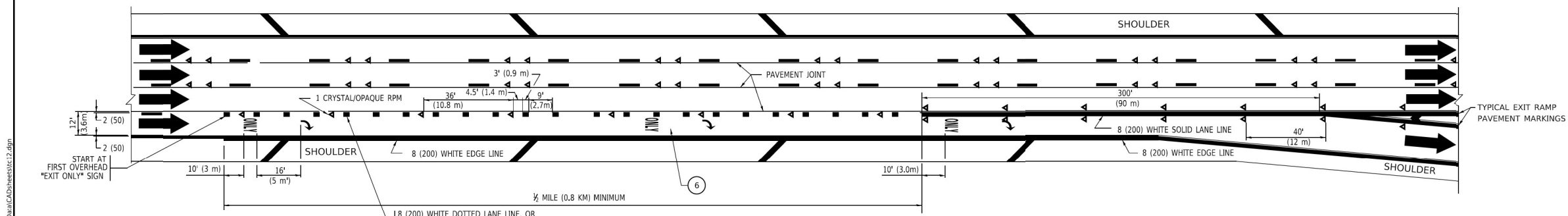
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	124
			CONTRACT NO. 62K60	
ILLINOIS			FED. AID PROJECT	



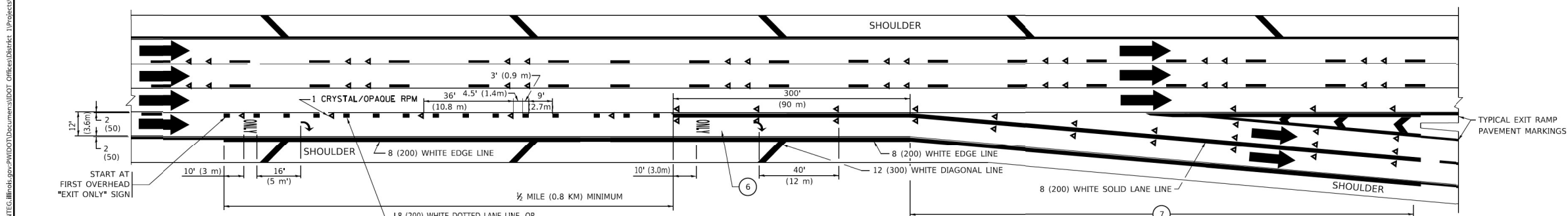
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

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

MODEL: D:\mfc\...
 FILE: NAME: ...
 PROJECT: ...
 USER: ...

USER NAME = footem	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06
	DRAWN - MAC	REVISED - S.P.B. 01-07
PLOT SCALE = 50,0000' / in.	CHECKED -	REVISED - S.P.B. 01-10
PLOT DATE = 3/4/2019	DATE - 01-90	REVISED - M.D. 09-17

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-12			
SCALE: NONE		SHEET 1 OF 2 SHEETS		STA. TO STA.
ILLINOIS FED. AID PROJECT				

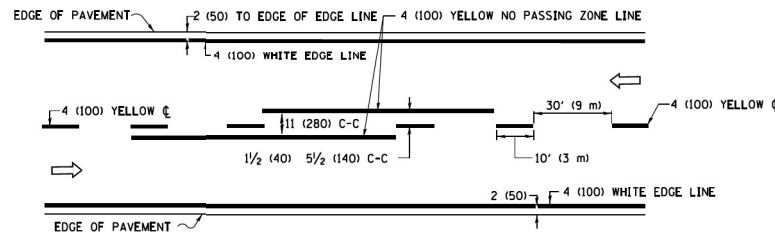


USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
	DRAWN - MAC	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - AMB	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

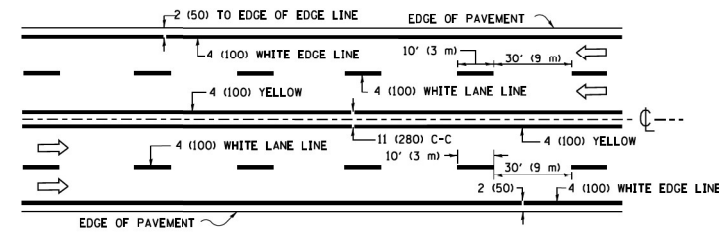
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS

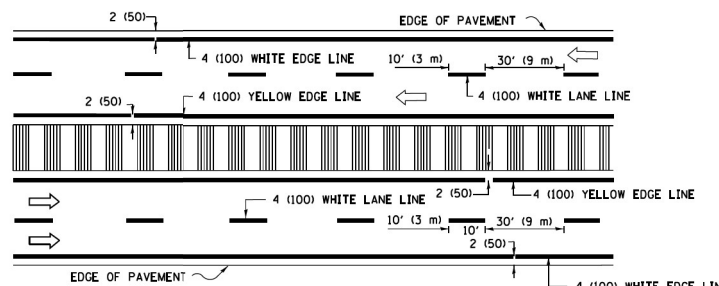
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	125
SCALE:		SHEET OF SHEETS		STA. TO STA.
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

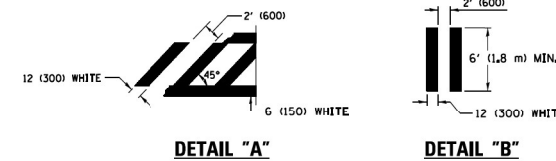
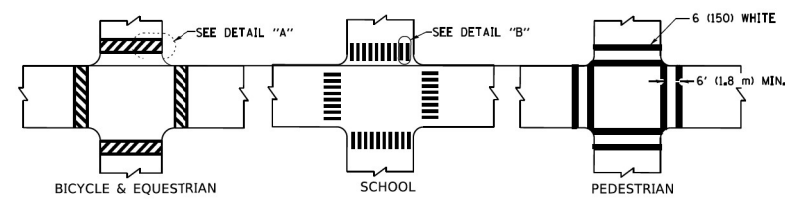


MULTI-LANE UNDIVIDED



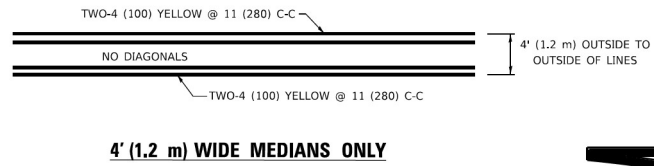
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

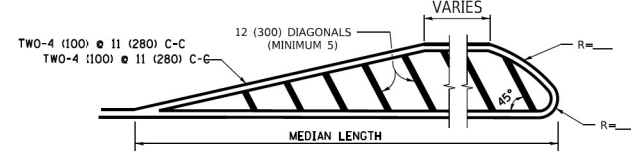


TYPICAL CROSSWALK MARKING

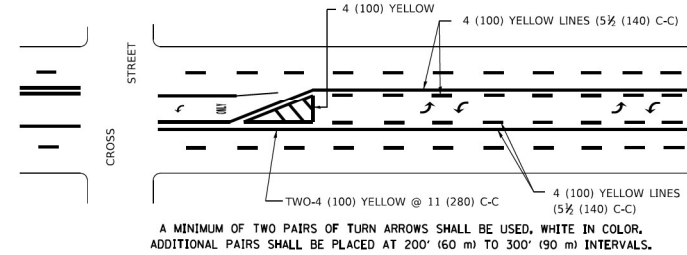
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



4' (1.2 m) WIDE MEDIANS ONLY

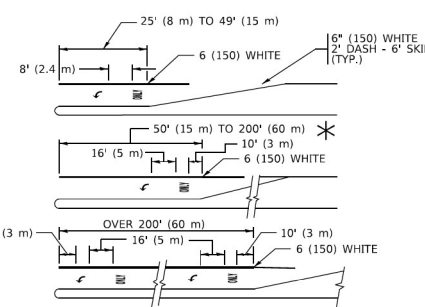


MEDIANS OVER 4' (1.2 m) WIDE



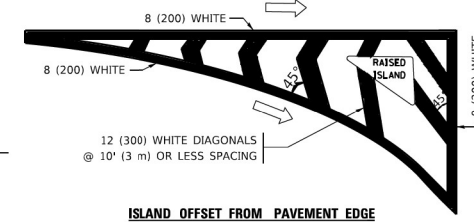
MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

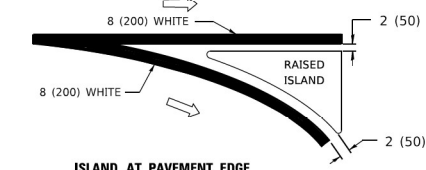


TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

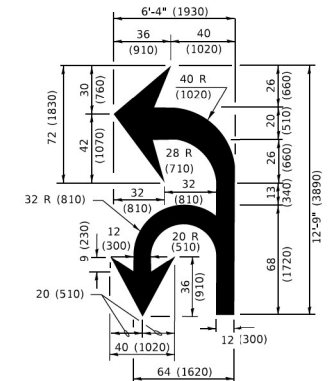


ISLAND OFFSET FROM PAVEMENT EDGE

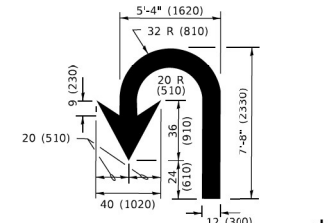


ISLAND AT PAVEMENT EDGE

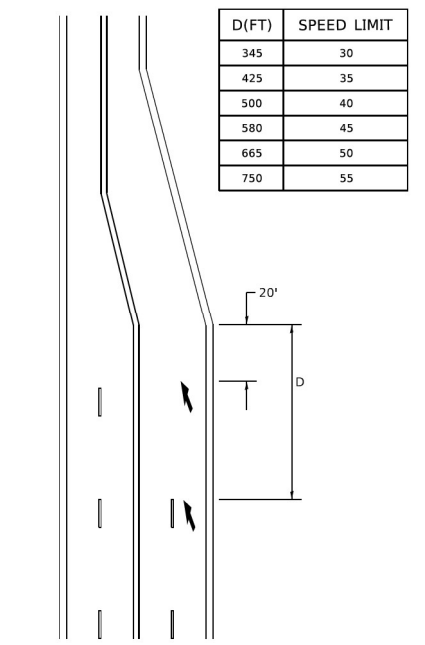
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN



LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR **	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: **R=3.6 SQ. FT. (0.33 m²) EACH **A=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 5F
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 5F

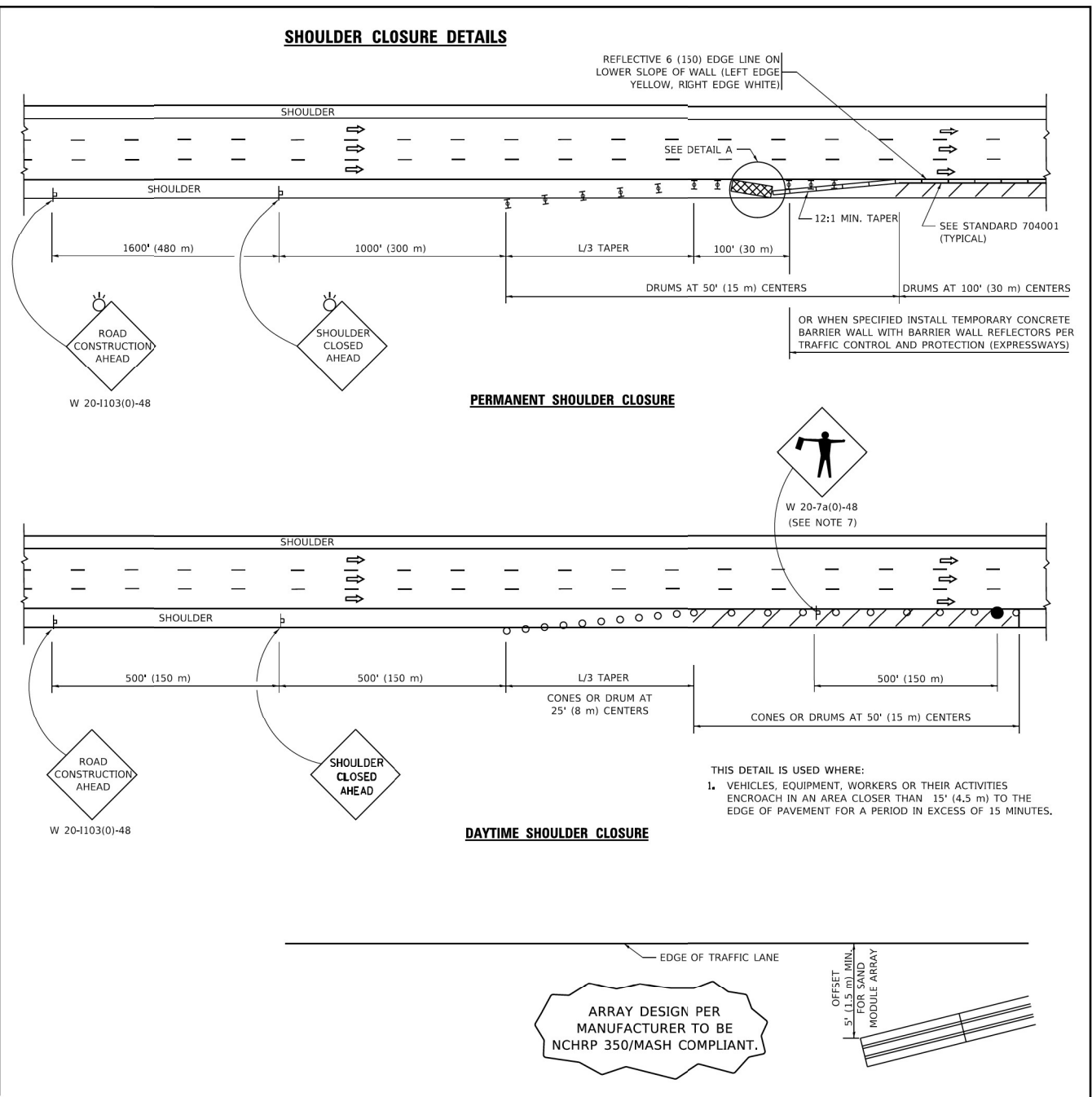
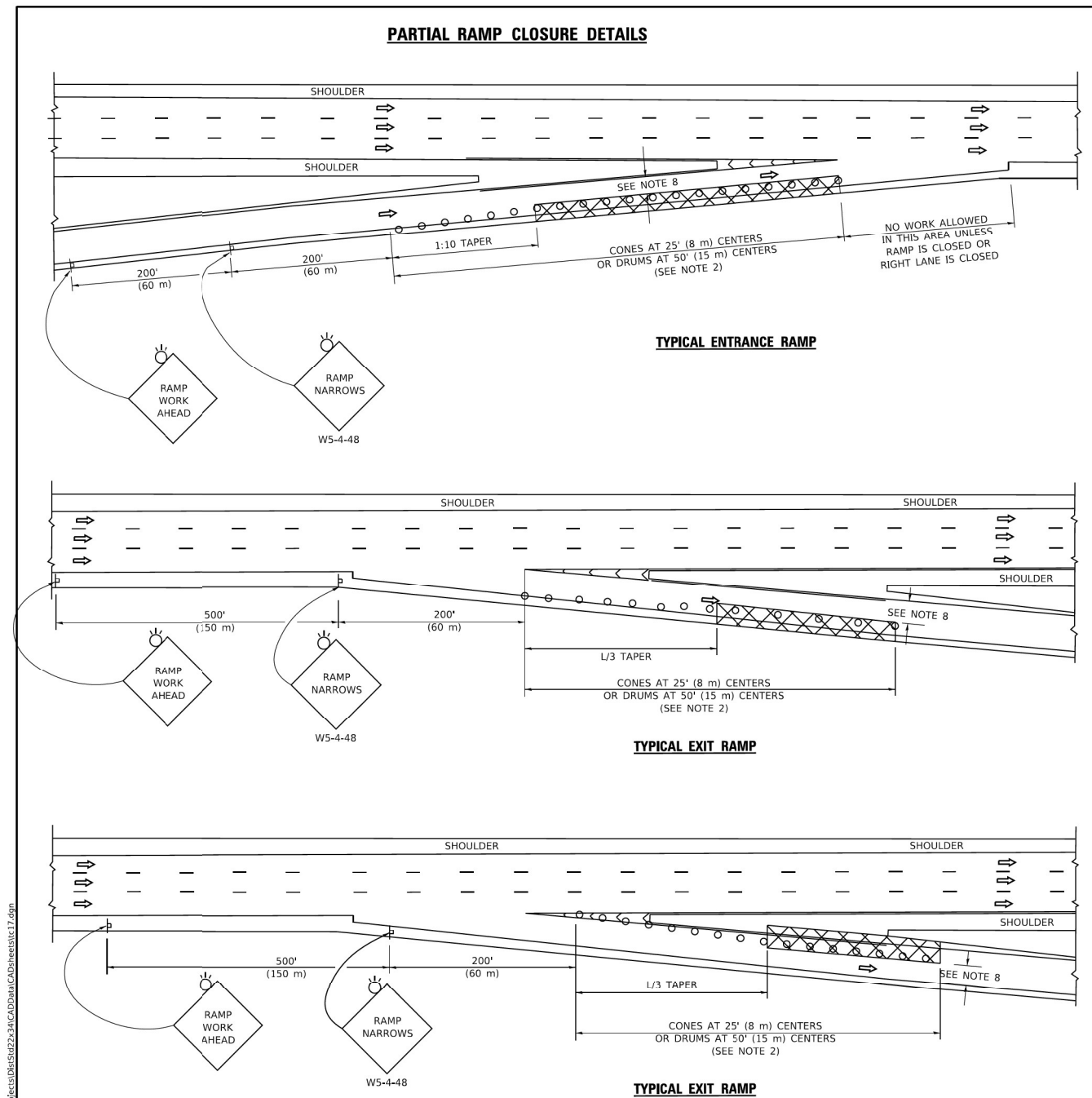
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

USER NAME = footem DESIGNED - EVERS DRAWN - CHECKED - DATE - 03-19-90	REVISIONS: REVISED - C. JUCIUS 09-09-09 REVISED - C. JUCIUS 07-01-13 REVISED - C. JUCIUS 12-21-15 REVISED - C. JUCIUS 04-12-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE TYPICAL PAVEMENT MARKINGS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				330	2019-187-B	COOK	153	126
SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.				CONTRACT NO. ILLINOIS FED. AID PROJECT				

GARZA KARHOFF ENGINEERING, LLC	USER NAME = MichaelCzerpak DESIGNED - MAC DRAWN - MAC CHECKED - AMB DATE - 10/18/2023	REVISIONS: REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE TYPICAL PAVEMENT MARKINGS	F.A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					330	2019-187-B	COOK	153	126
SCALE: SHEET OF SHEETS STA. TO STA.				CONTRACT NO. ILLINOIS FED. AID PROJECT					

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SYMBOLS

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

GENERAL NOTES:

1. THE "L" DISTANCE EQUALS:

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

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

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

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

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

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 USER: Michael.Czerpak
 DATE: 10/18/2023

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-17			
ILLINOIS FED. AID PROJECT				

USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - MAC	REVISED -
PLOT DATE = 10/18/2023	CHECKED - AMB	REVISED -
	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	127
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

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 USER: Michael.Czerpak
 DATE: 10/18/2023



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ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-2-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

NORTH M3-1-2412

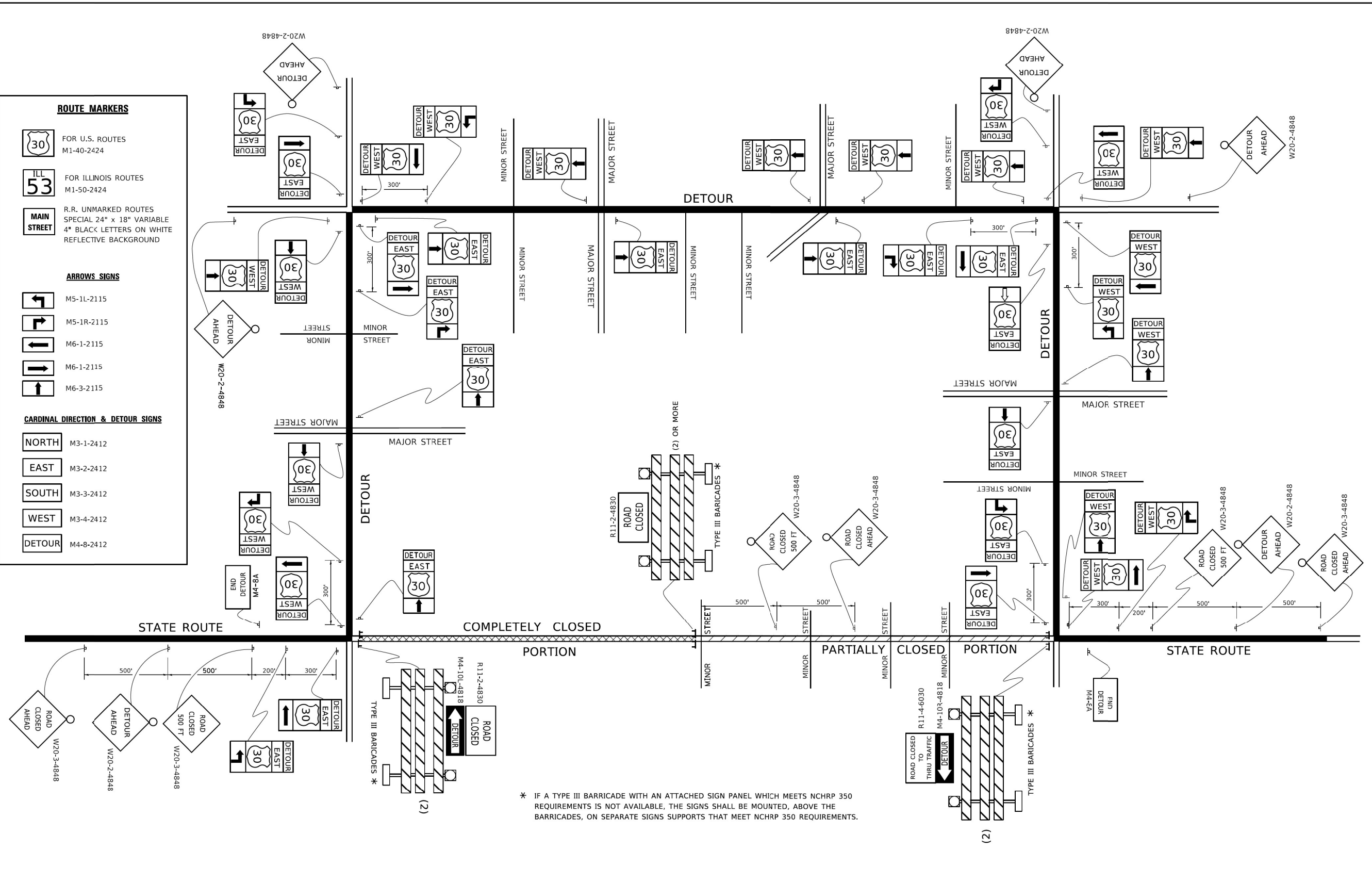
EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412

MODEL: Default
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* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

USER NAME = f0000001	DESIGNED -	REVISED -
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

DESIGNED -	10-18-02
DRAWN -	R. BORO 09-14-09
CHECKED -	
DATE -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			
SCALE: NONE	SHEET 1	OF 1	SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-21		CONTRACT NO.		
ILLINOIS		FED. AID PROJECT		



USER NAME = Michael.Czerpak	DESIGNED -	MAC	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	MAC	REVISED -
PLOT DATE = 10/18/2023	CHECKED -	AMB	REVISED -
	DATE -	10/18/2023	REVISED -

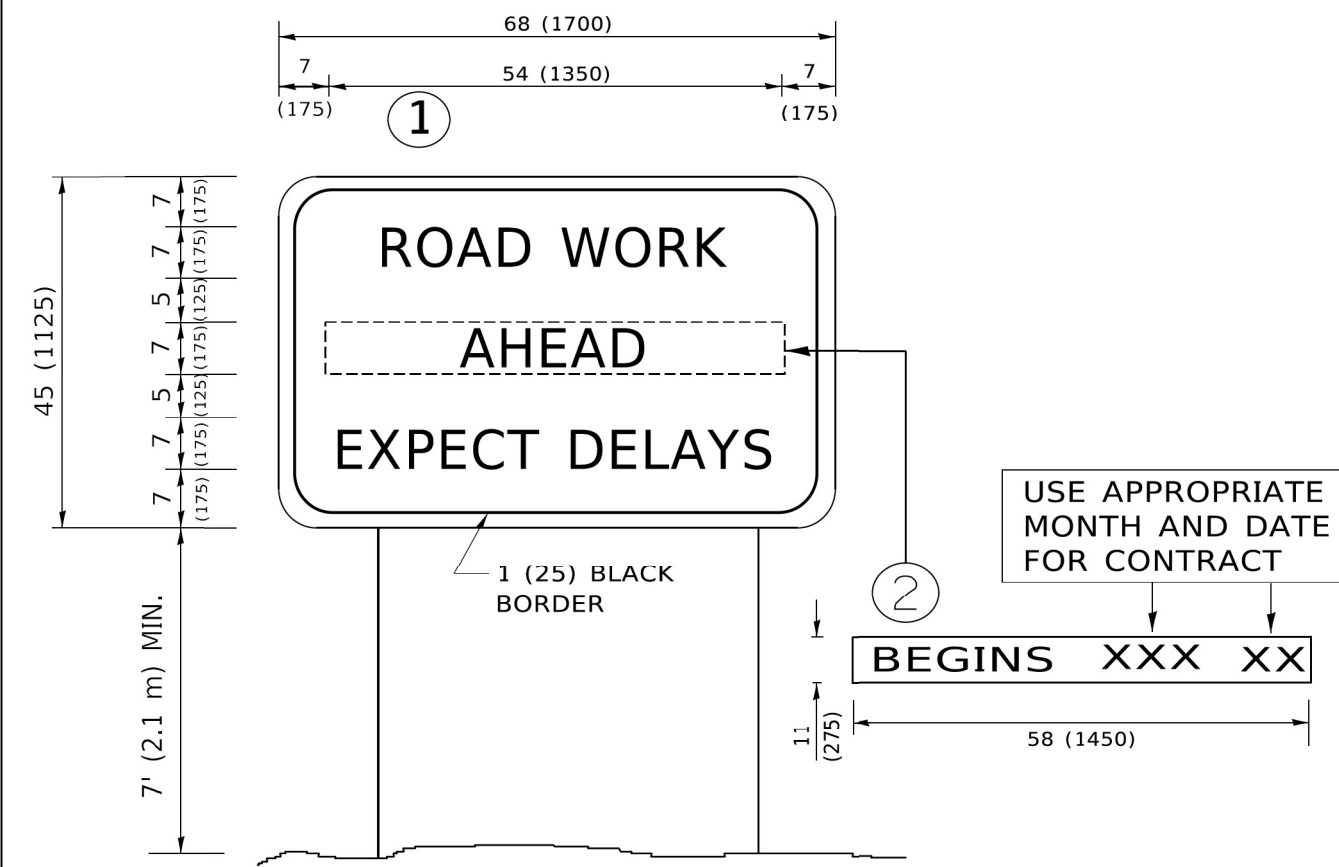
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			
SCALE:	SHEET	OF	SHEETS STA. TO STA.

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			
SCALE:	SHEET	OF	SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	128
		CONTRACT NO. 62K60		
ILLINOIS		FED. AID PROJECT		

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

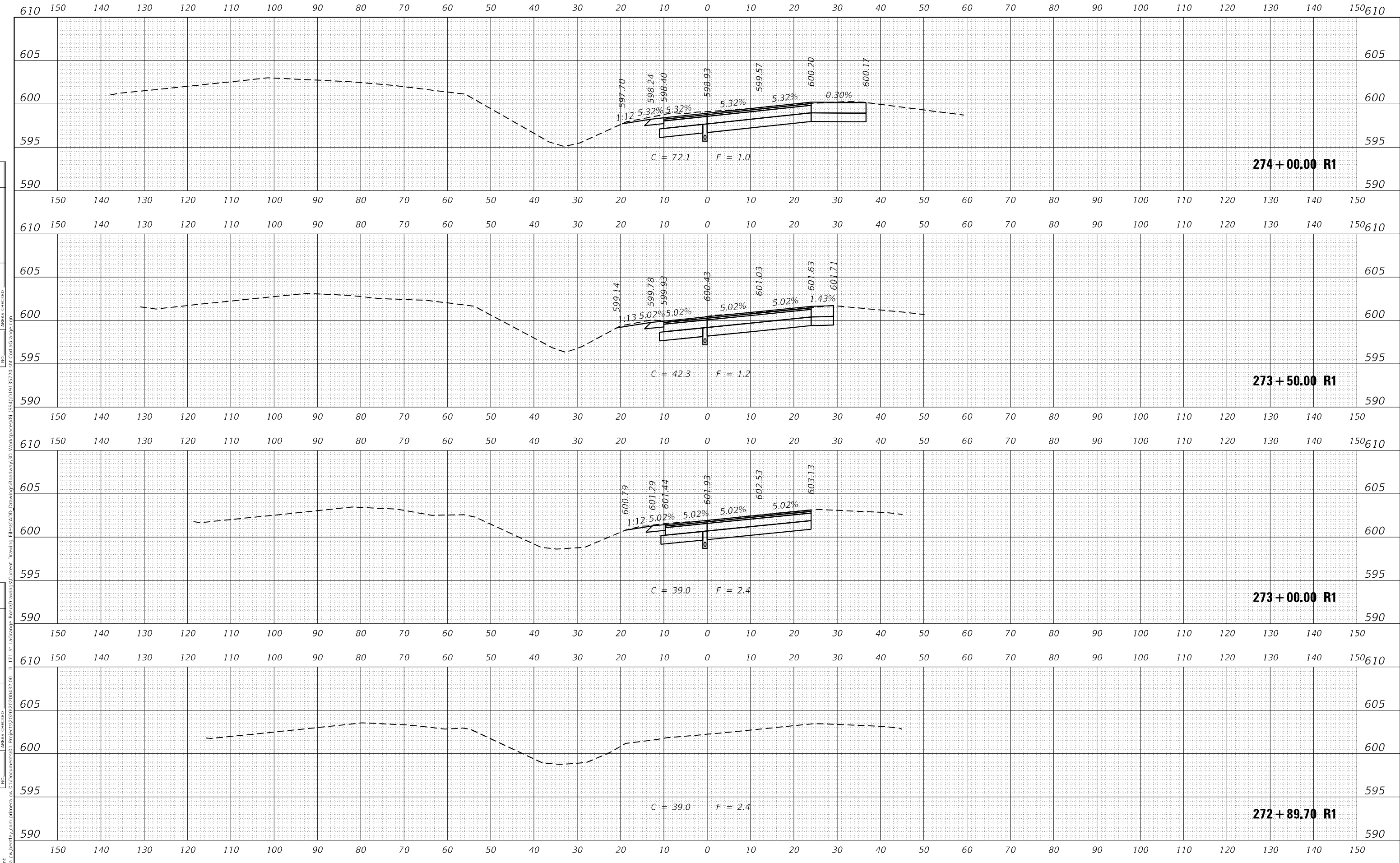
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50,0000 ' / in.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE			TC-22				
PLOT DATE = 3/4/2019	CHECKED -	REVISED - T. RAMMACHER 02-02-99		SHEET 1 OF 1 SHEETS			ILLINOIS FED. AID PROJECT				
	DATE -	REVISED - C. JUCIUS 01-31-07		STA. TO STA.			CONTRACT NO.				

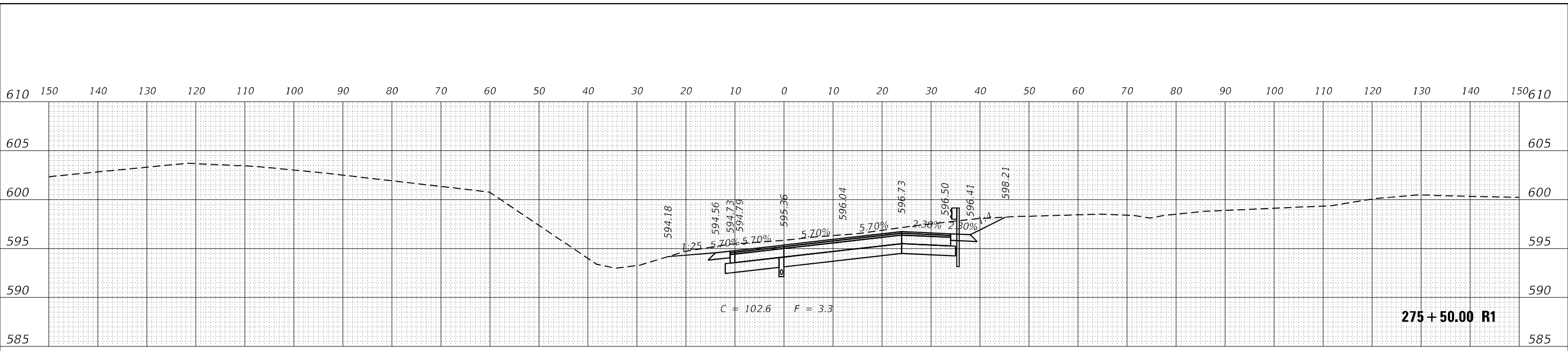
	USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40,0000 ' / in.	DRAWN - MAC	REVISED -		SCALE:			330 2019-187-B COOK 153 129				
	PLOT DATE = 10/18/2023	CHECKED - AMB	REVISED -		SHEET OF SHEETS			ILLINOIS FED. AID PROJECT				
	DATE - 10/18/2023	REVISED -		STA. TO STA.			CONTRACT NO. 62K60					

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

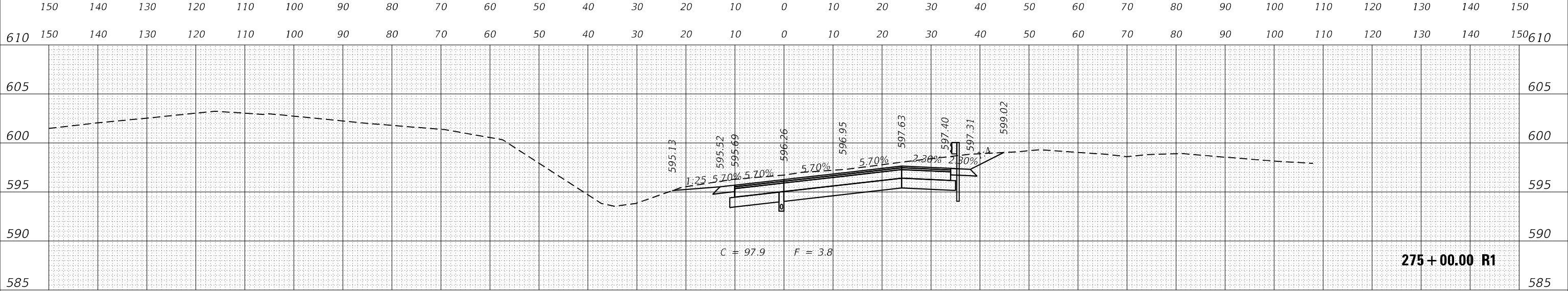
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	



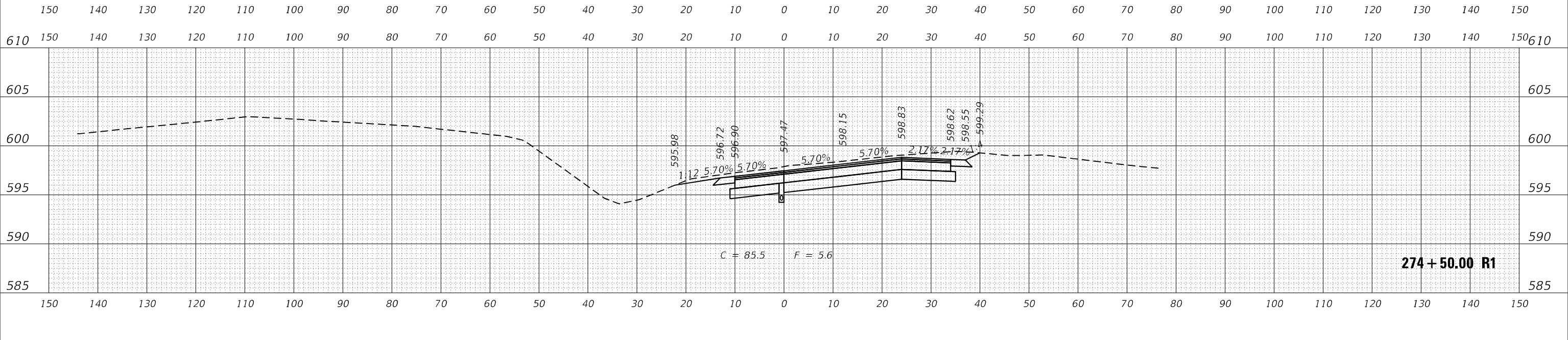
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



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		DRAWN	- MAC	REVISED	-
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PLOT DATE	= 10/18/2023	DATE	- 10/18/2023	REVISED	-

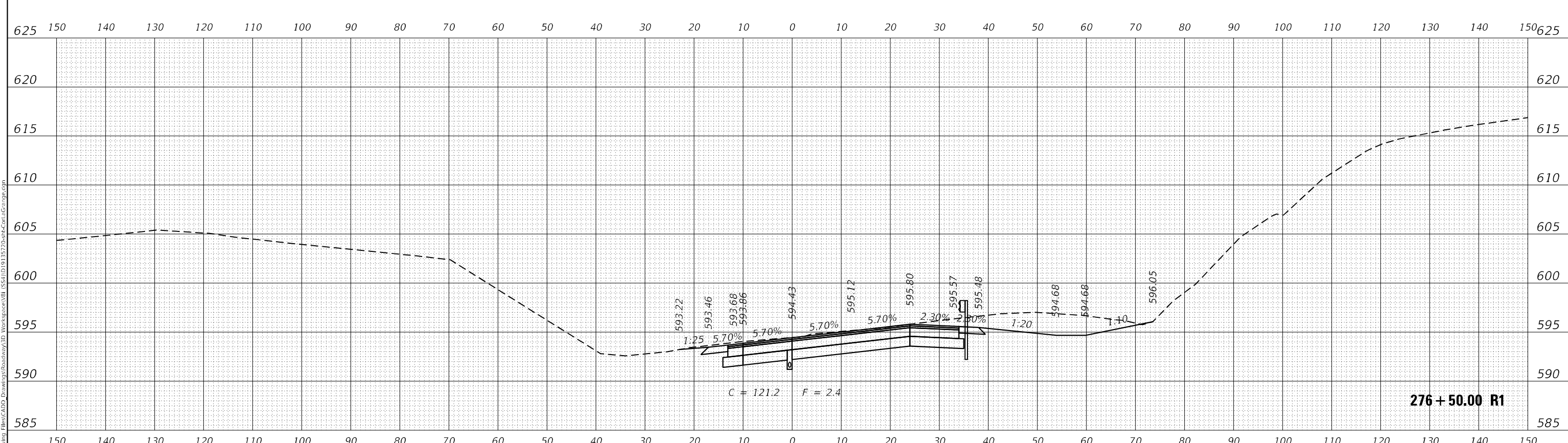
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 US 12/20/45**

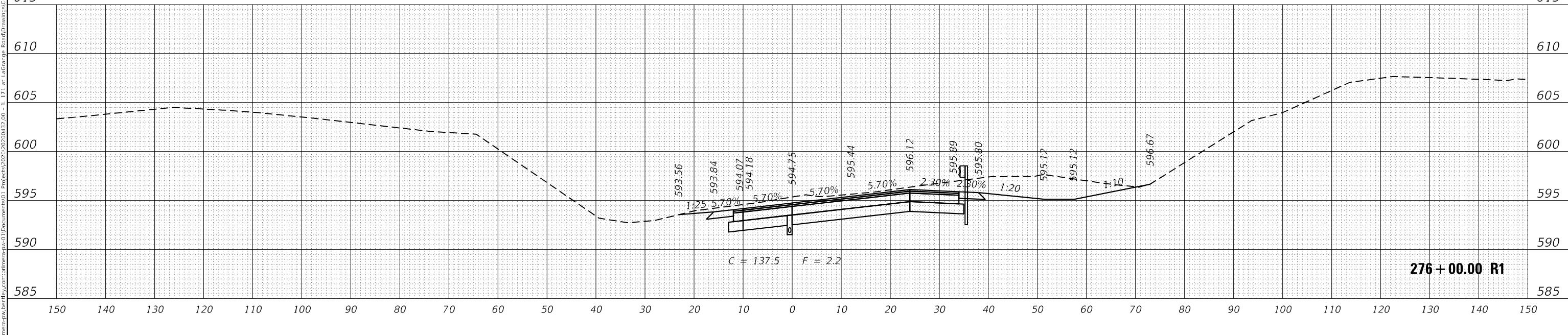
SCALE: SHEET 2 OF 11 SHEETS STA. 274+50.00 R1 TO STA. 275+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	131
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
NOTE BOOK	
PLOTTED	
AREAS CHECKED	
NO.	



DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTE BOOK	
PLOTTED	
AREAS CHECKED	
NO.	



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USER NAME	= Michael.Czerpak
DESIGNED	- MAC
DRAWN	- MAC
CHECKED	- AMB
DATE	- 10/18/2023
PLOT SCALE	= 20,0012' */ in.
PLOT DATE	= 10/18/2023

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

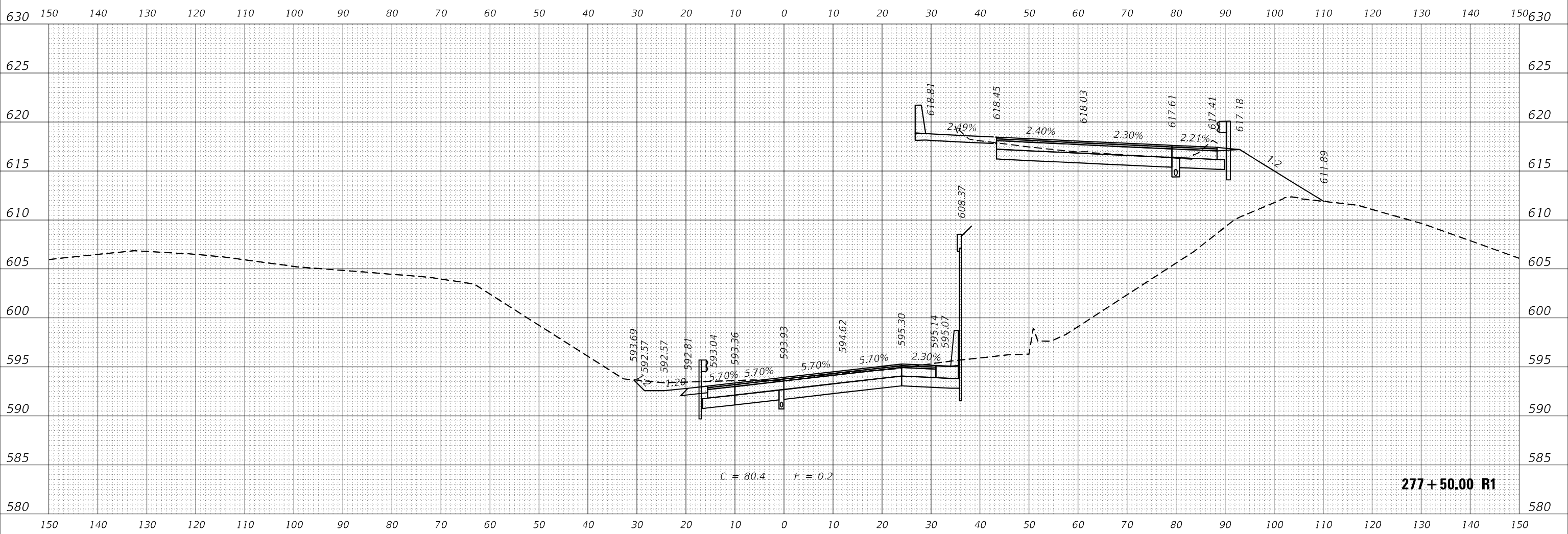
CROSS SECTIONS US 12/20/45	
SCALE:	SHEET 3 OF 11 SHEETS
STA. 276+00.00 R1 TO STA. 276+50.00 R1	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	132
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	AREAS CHECKED		

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USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
	DRAWN - MAC	REVISED -
PLOT SCALE = 20,0012' / in.	CHECKED - AMB	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
US 12/20/45**

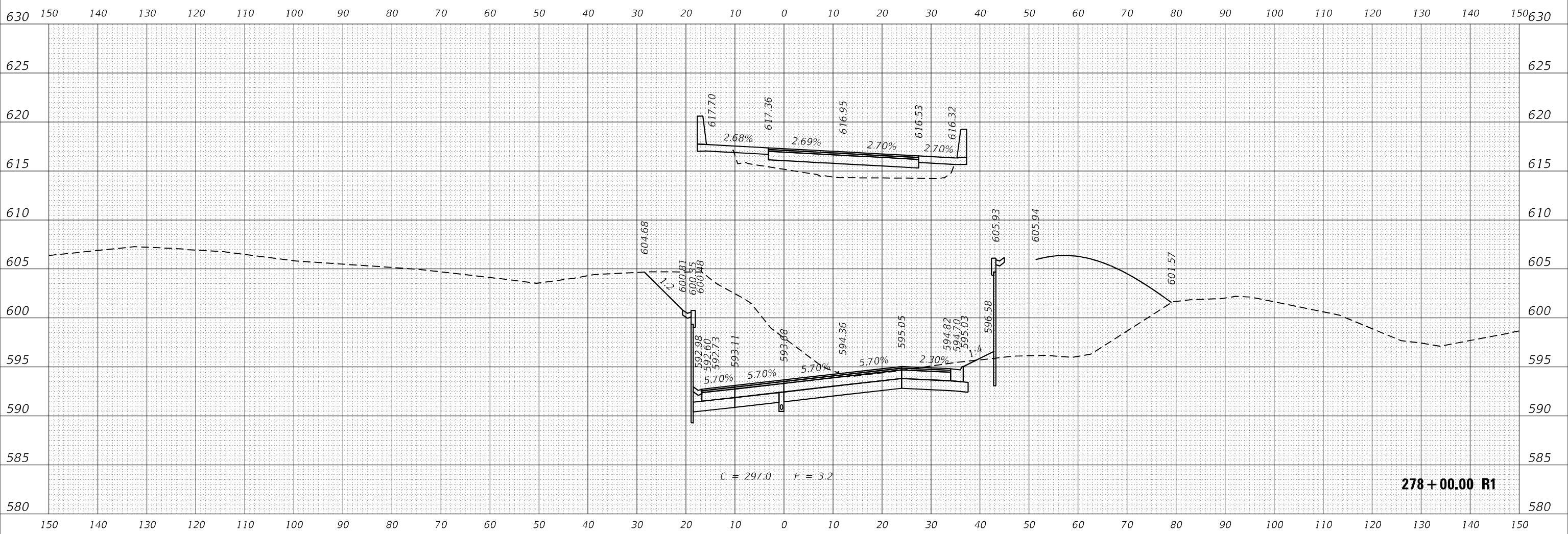
SCALE: SHEET 5 OF 11 SHEETS STA. 277+50.00 R1 TO STA. 277+50.00 R1

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 134
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K60	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

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USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
	DRAWN - MAC	REVISED -
PLOT SCALE = 20,0012' */ in.	CHECKED - AMB	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

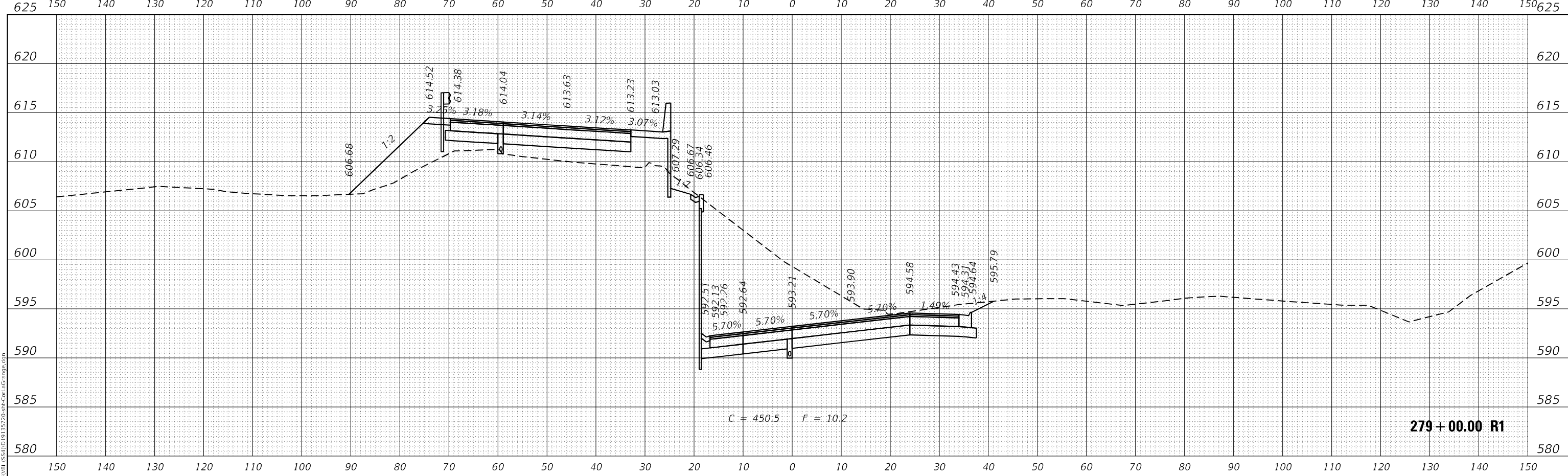
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
US 1220/45**

SCALE: SHEET 6 OF 11 SHEETS STA. 278+00.00 R1 TO STA. 278+00.00 R1

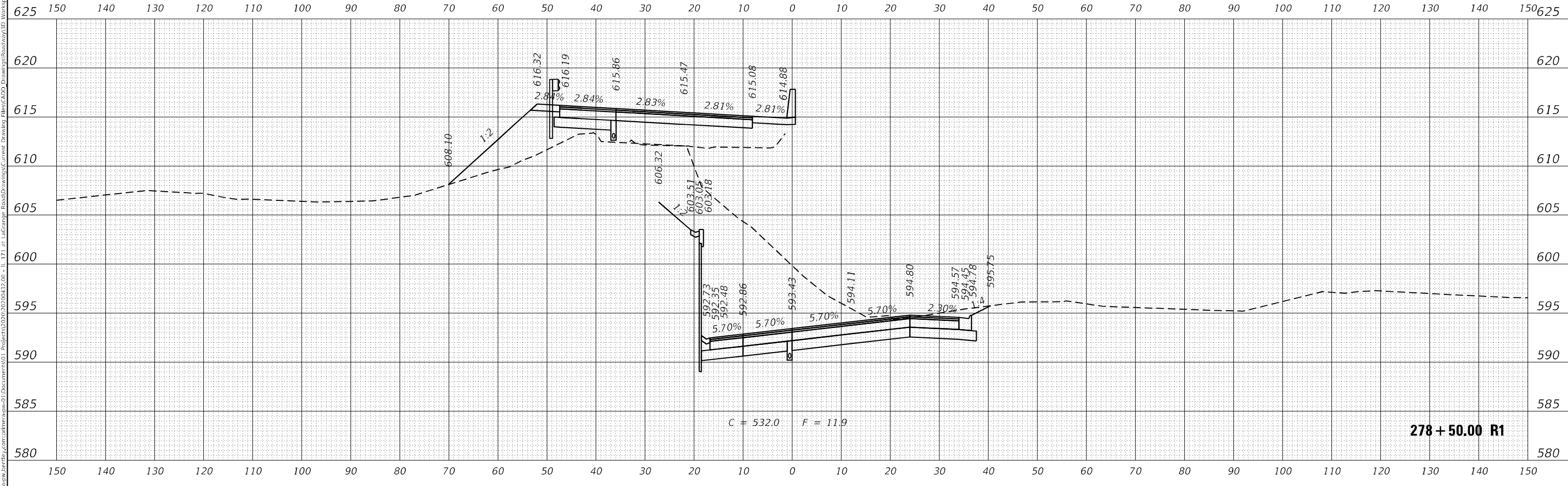
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	135
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



279+00.00 R1

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



278+50.00 R1



USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
	DRAWN - MAC	REVISED -
PLOT SCALE = 20,0012' / in.	CHECKED - AMB	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US 12/20/45

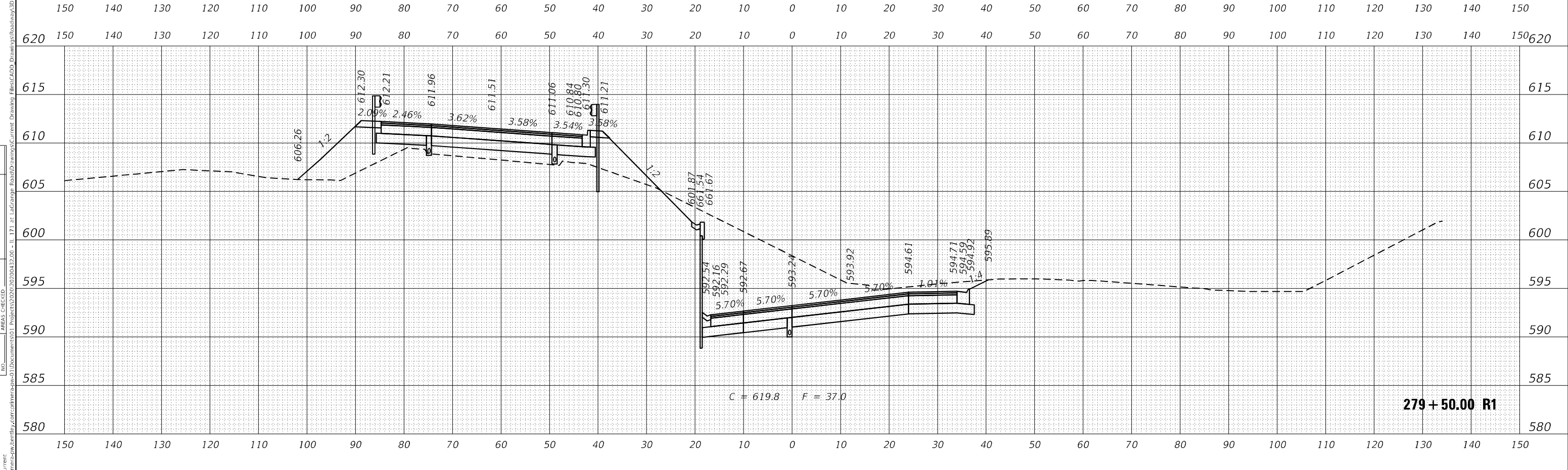
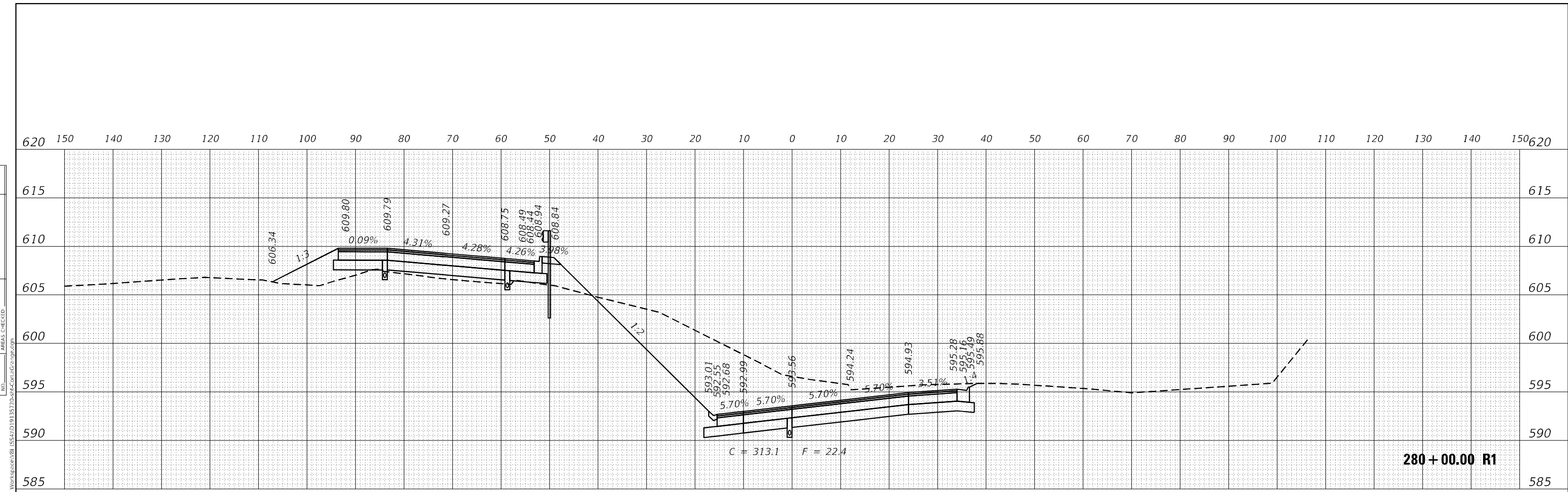
SCALE: SHEET 7 OF 11 SHEETS STA. 278+50.00 R1 TO STA. 279+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	136
CONTRACT NO. 62K60				

ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS CHECKED	



USER NAME	= Michael.Czerpak	DESIGNED	- MAC	REVISED	-
		DRAWN	- MAC	REVISED	-
PLOT SCALE	= 20,0012' / in.	CHECKED	- AMB	REVISED	-
PLOT DATE	= 10/18/2023	DATE	- 10/18/2023	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

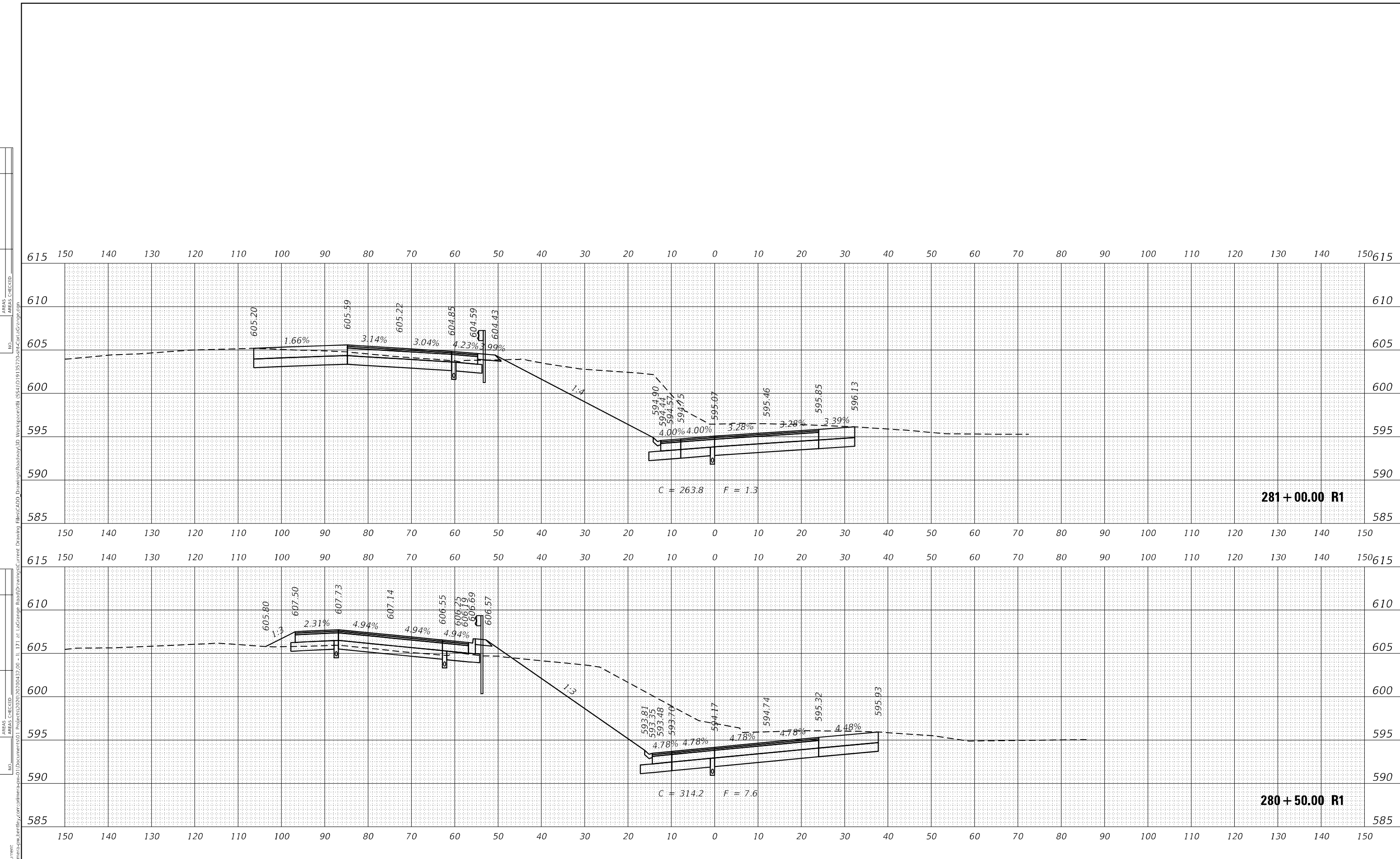
**CROSS SECTIONS
US 12/20/45**

SCALE: SHEET 8 OF 11 SHEETS STA. 279+50.00 R1 TO STA. 280+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	137
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



USER NAME	= Michael.Czerpak	DESIGNED	- MAC	REVISED	-
		DRAWN	- MAC	REVISED	-
PLOT SCALE	= 20,0012' */ in.	CHECKED	- AMB	REVISED	-
PLOT DATE	= 10/18/2023	DATE	- 10/18/2023	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
US 1220/45**

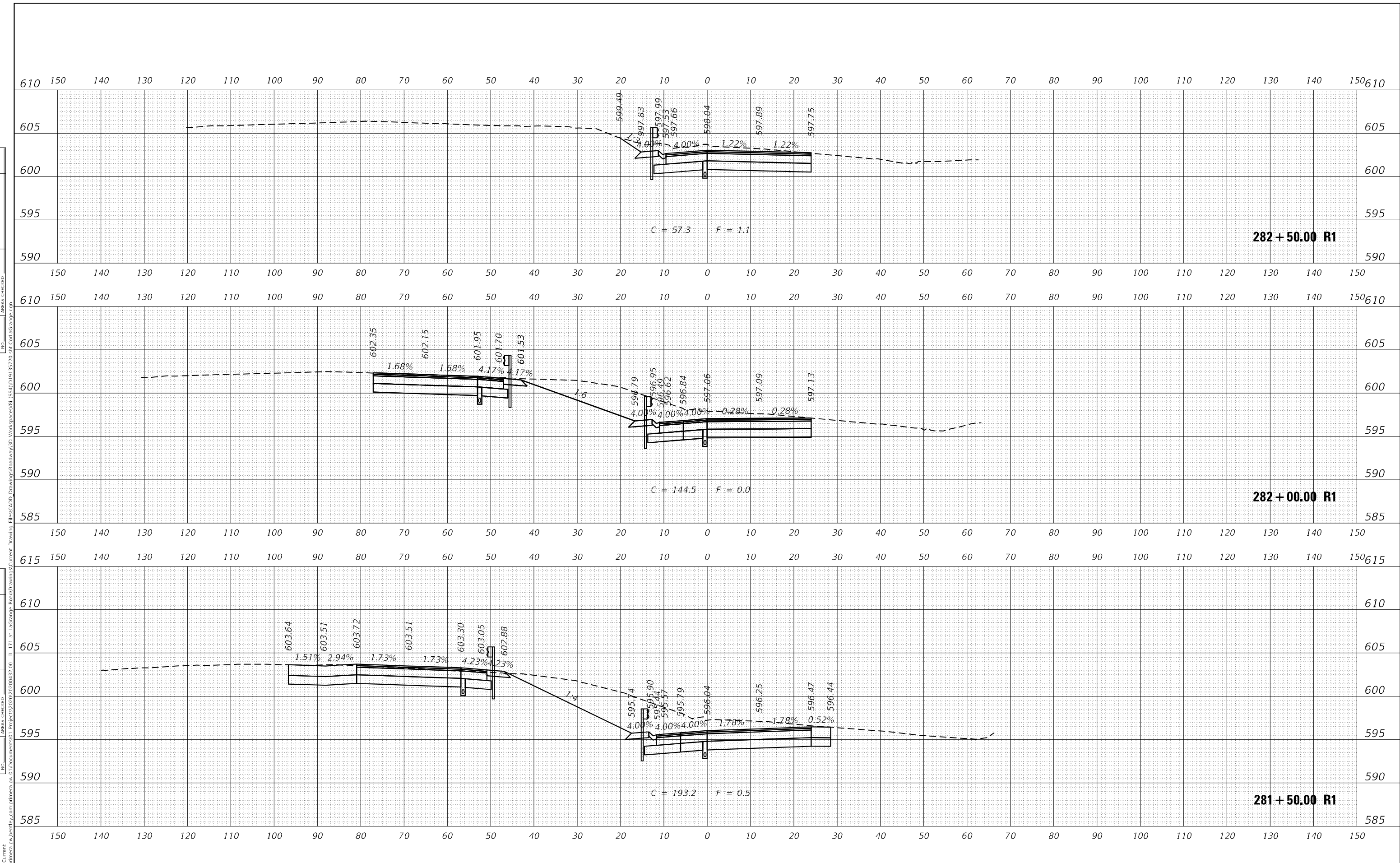
SCALE: SHEET 9 OF 11 SHEETS STA. 280+50.00 R1 TO STA. 281+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	138
CONTRACT NO. 62K60				

ILLINOIS FED. AID PROJECT

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



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		DRAWN	- MAC	REVISED	-
PLOT SCALE	= 20,0012 */ in.	CHECKED	- AMB	REVISED	-
PLOT DATE	= 10/18/2023	DATE	- 10/18/2023	REVISED	-

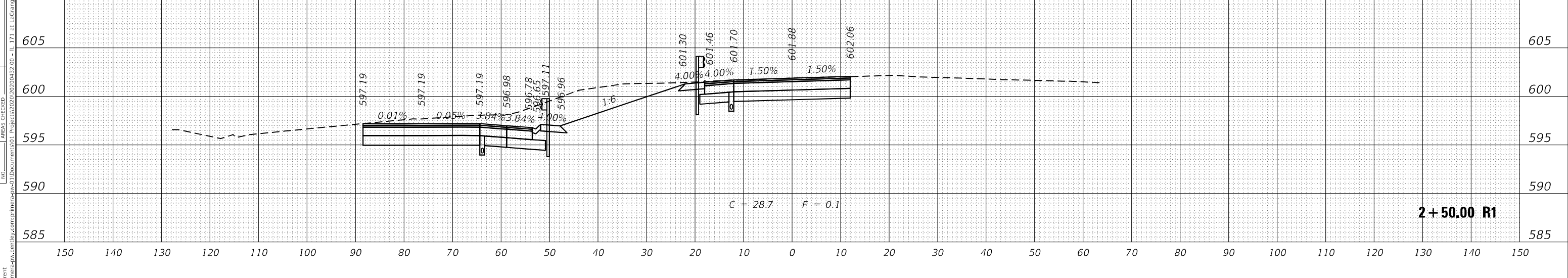
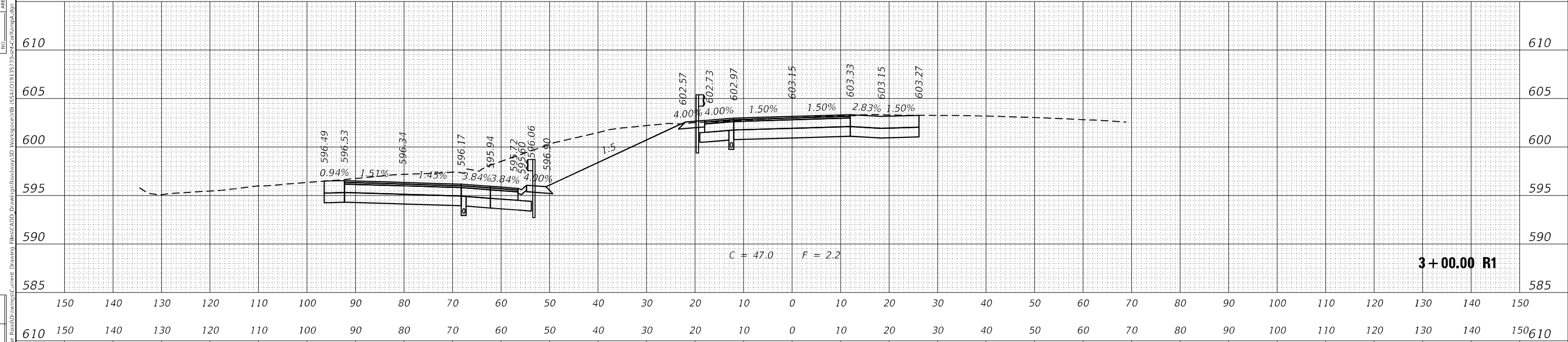
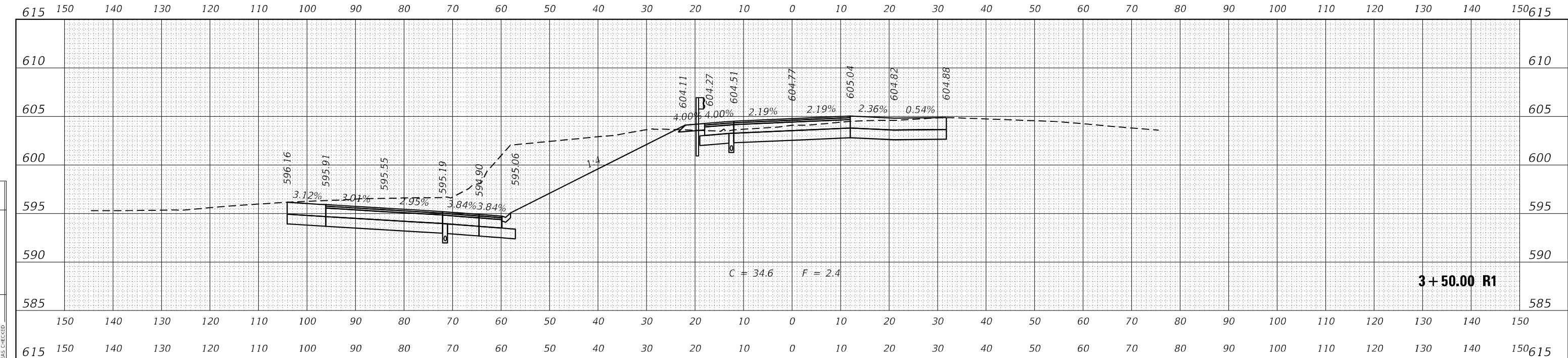
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS US 12/20/45	
SCALE:	SHEET 10 OF 11 SHEETS STA. 281+50.00 R1 TO STA. 282+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	139
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



	USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
	PLOT SCALE = 20,0012' / in.	DRAWN - MAC	REVISED -
	PLOT DATE = 10/18/2023	CHECKED - AMB	REVISED -
		DATE - 10/18/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
IL 171 RAMP A**

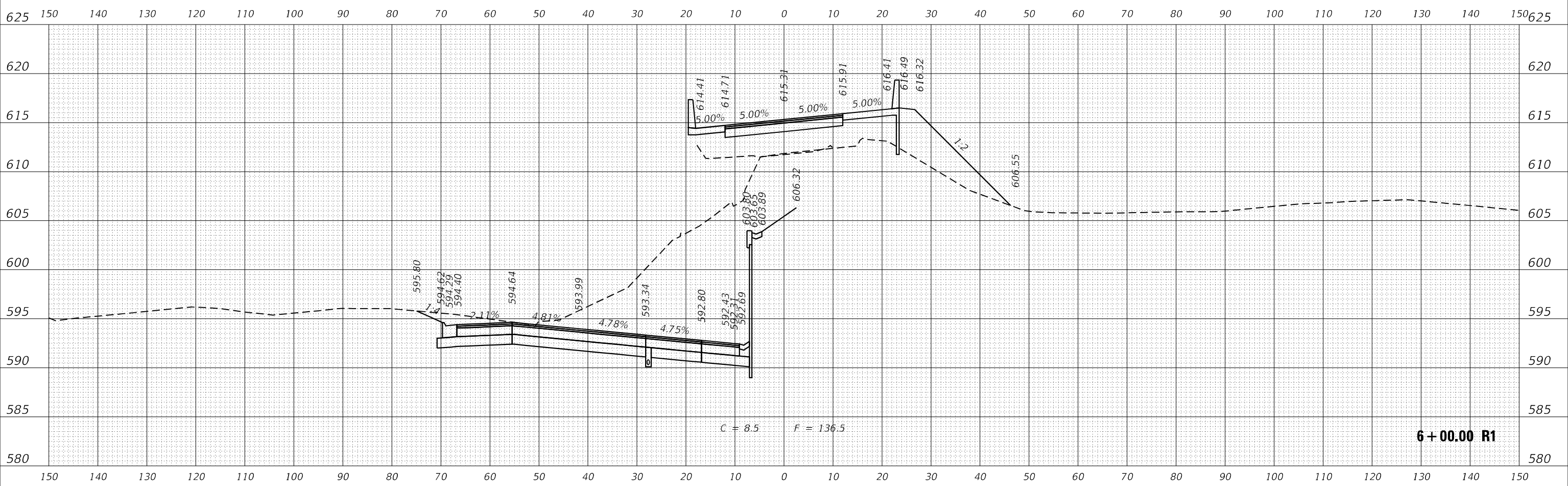
SCALE: SHEET 1 OF 13 SHEETS STA. 2+50.00 R1 TO STA. 3+50.00 R1

F.A.P. RTE. 330	SECTION 2019-187-B	COUNTY COOK	TOTAL SHEETS 153	SHEET NO. 141
CONTRACT NO. 62K60			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	FLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	FLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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USER NAME = Michael.Czerpak	DESIGNED - MAC	REVISED -
	DRAWN - MAC	REVISED -
PLOT SCALE = 20,0012 * / in.	CHECKED - AMB	REVISED -
PLOT DATE = 10/18/2023	DATE - 10/18/2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 171 RAMP A

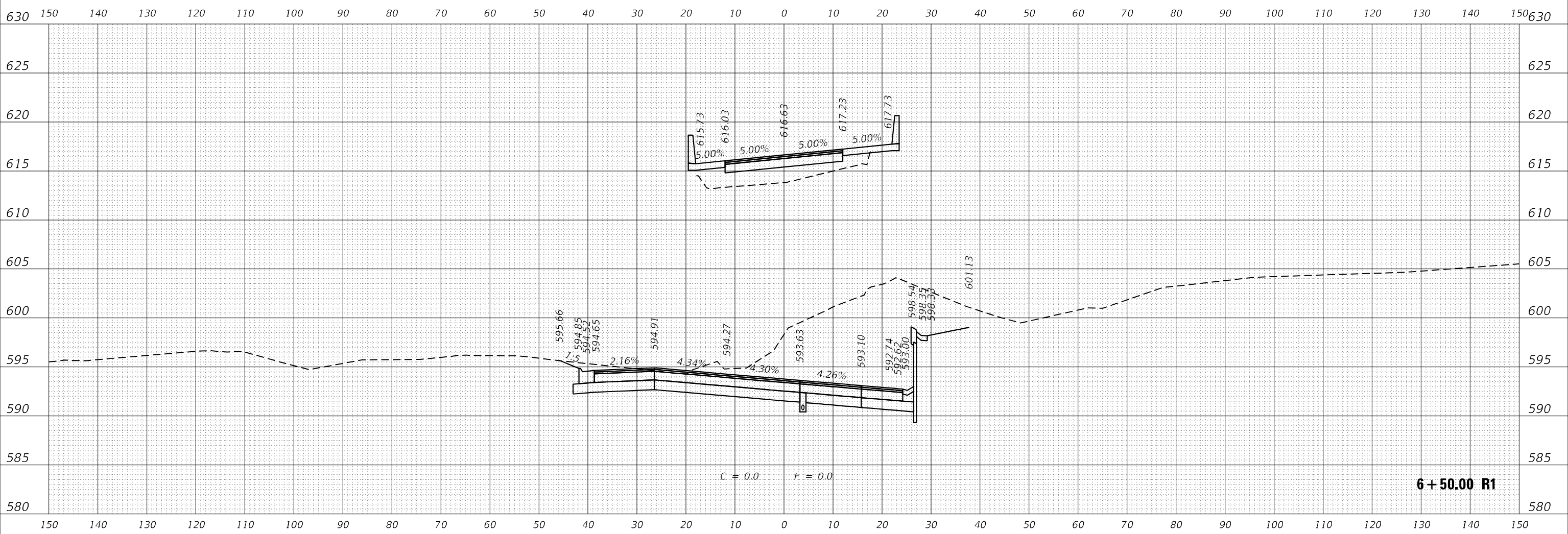
SCALE: SHEET 4 OF 13 SHEETS STA. 6+00.00 R1 TO STA. 6+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	144
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	AREAS CHECKED		

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USER NAME = Michael.Czerpak
 PLOT SCALE = 20,0012 * / in.
 PLOT DATE = 10/18/2023

DESIGNED - MAC
 DRAWN - MAC
 CHECKED - AMB
 DATE - 10/18/2023

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 171 RAMP A

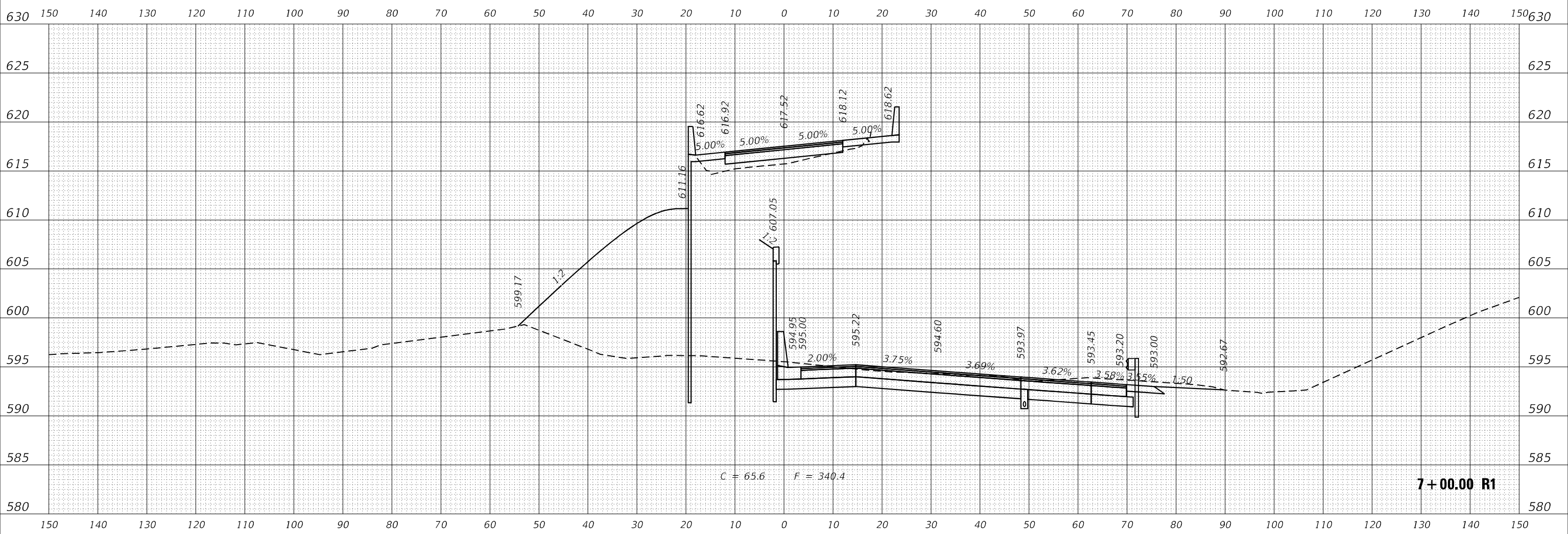
SCALE: SHEET 5 OF 13 SHEETS STA. 6+50.00 R1 TO STA. 6+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	145
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	FLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	FLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

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7+00.00 R1



USER NAME	= Michael.Czerpak
DESIGNED	- MAC
DRAWN	- MAC
CHECKED	- AMB
DATE	- 10/18/2023

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

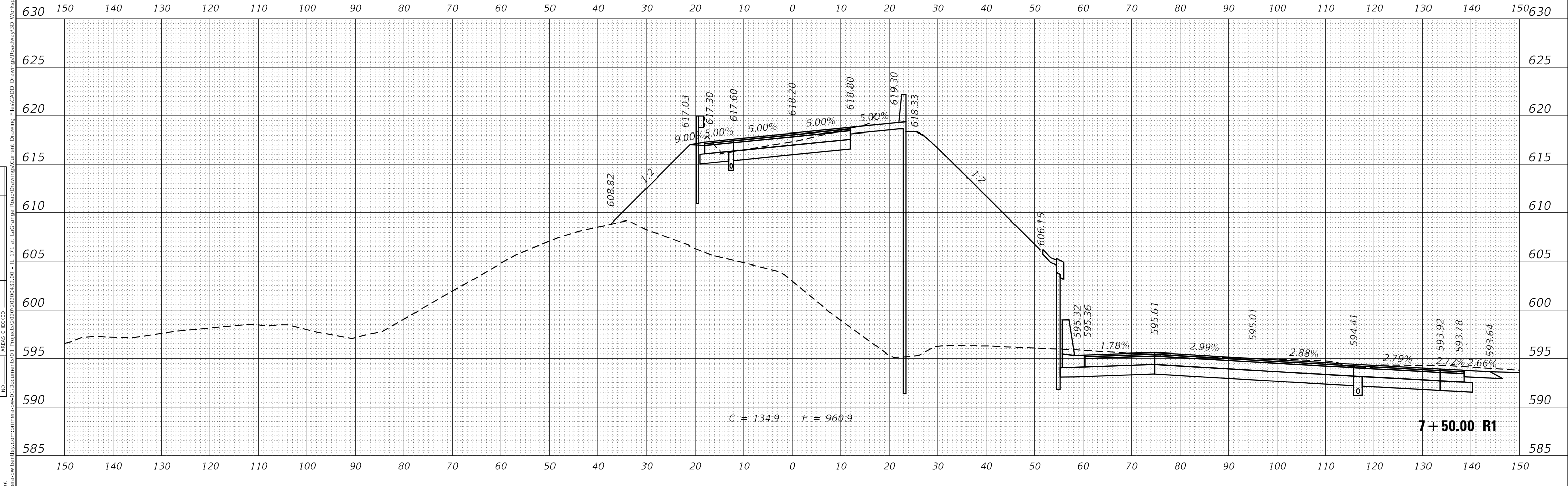
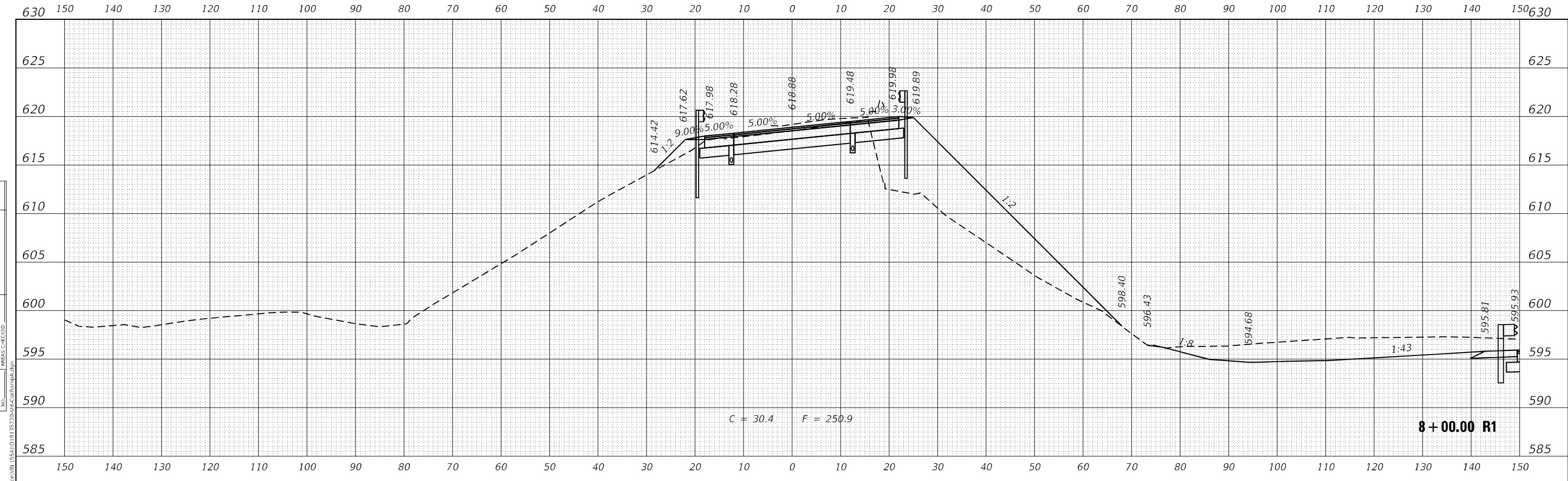
CROSS SECTIONS
 IL 171 RAMP A

SCALE: SHEET 6 OF 13 SHEETS STA. 7+00.00 R1 TO STA. 7+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	146
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
NO.	AREAS	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
NO.	AREAS	



USER NAME	= Michael.Czerpak
DESIGNED	- MAC
DRAWN	- MAC
CHECKED	- AMB
DATE	- 10/18/2023

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

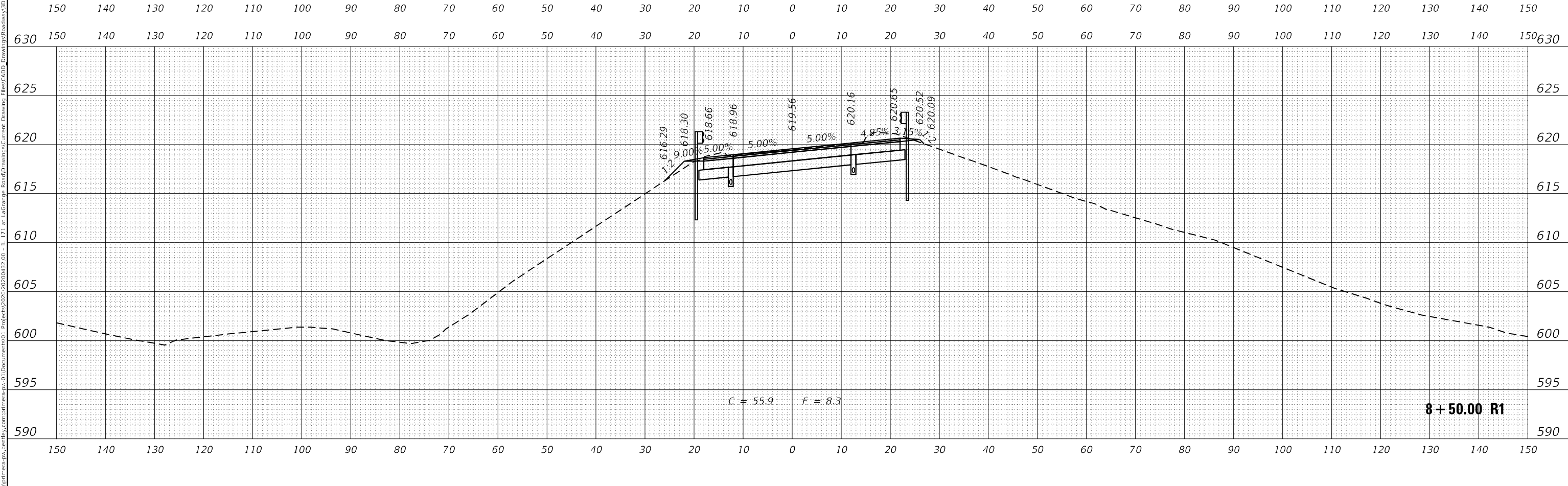
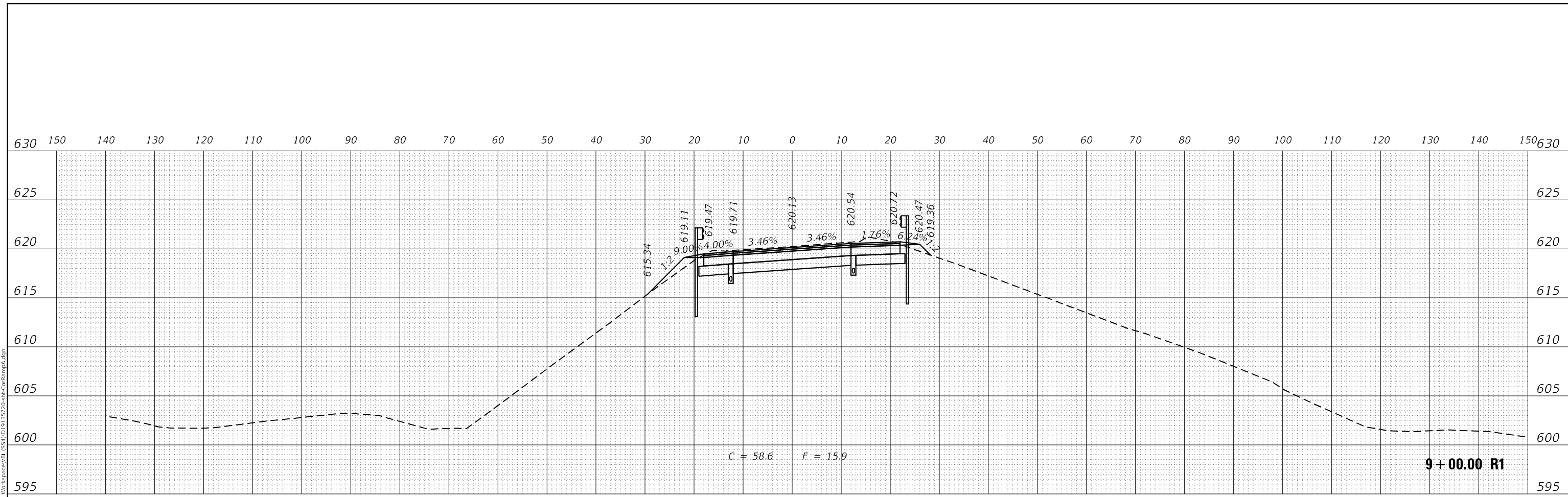
**CROSS SECTIONS
IL 171 RAMP A**

SCALE: SHEET 7 OF 13 SHEETS STA. 7+50.00 R1 TO STA. 8+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	147
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



MODEL: RA1MPA_Current
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USER NAME	= Michael.Czerpak
DESIGNED	- MAC
DRAWN	- MAC
CHECKED	- AMB
DATE	- 10/18/2023

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

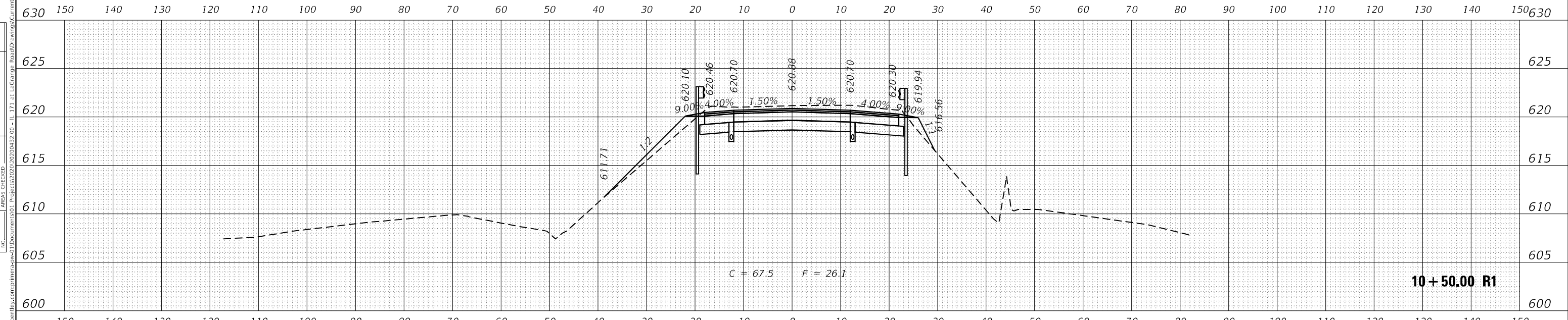
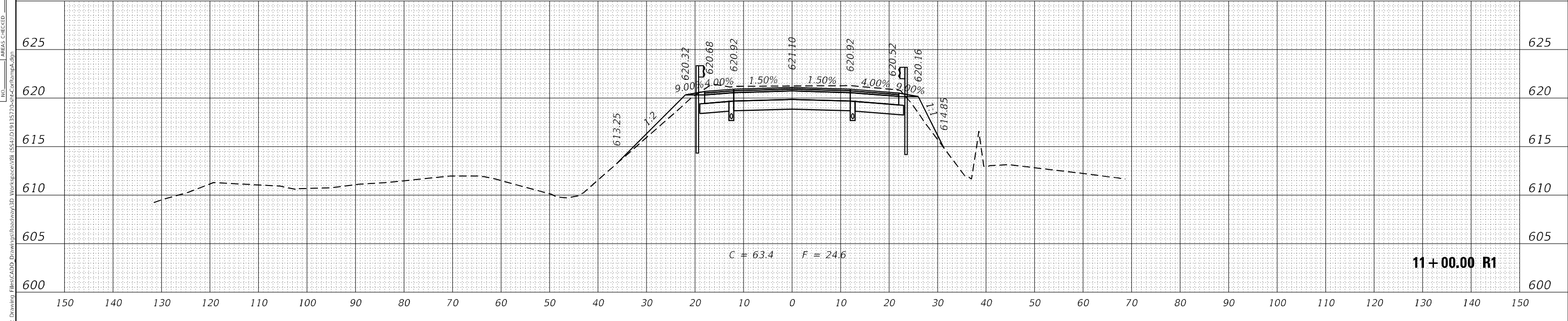
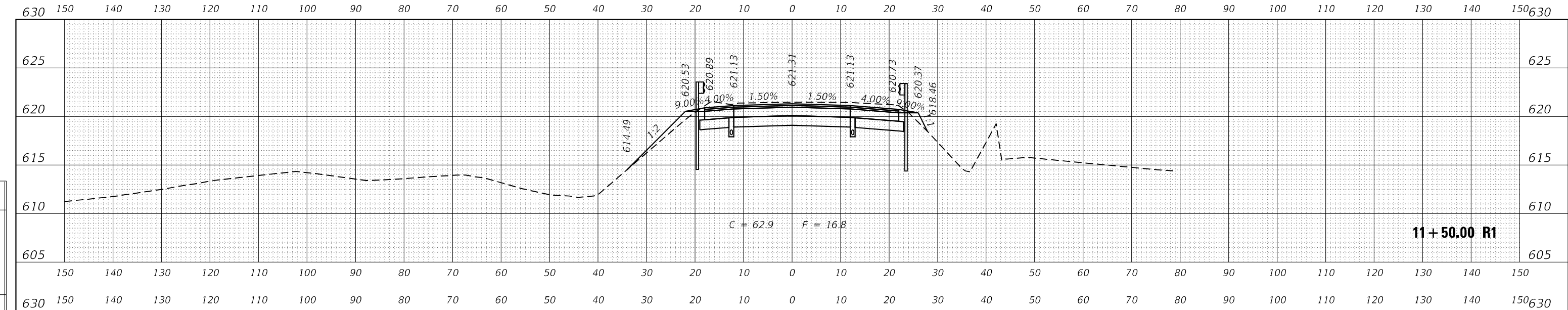
**CROSS SECTIONS
 IL 171 RAMP A**

SCALE: SHEET 8 OF 13 SHEETS STA. 8+50.00 R1 TO STA. 9+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	148
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS CHECKED	



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USER NAME	= Michael.Czerpak	DESIGNED	- MAC	REVISED	-
		DRAWN	- MAC	REVISED	-
PLOT SCALE	= 20,0012' */ in.	CHECKED	- AMB	REVISED	-
PLOT DATE	= 10/18/2023	DATE	- 10/18/2023	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

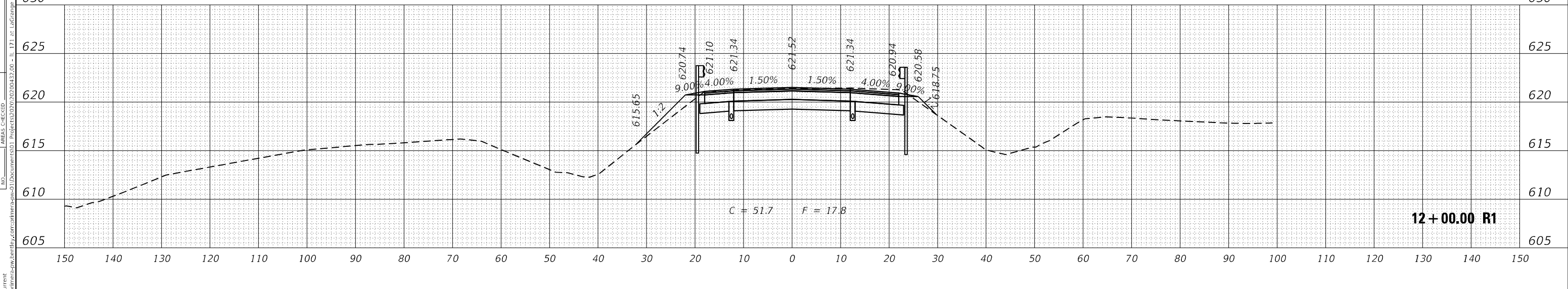
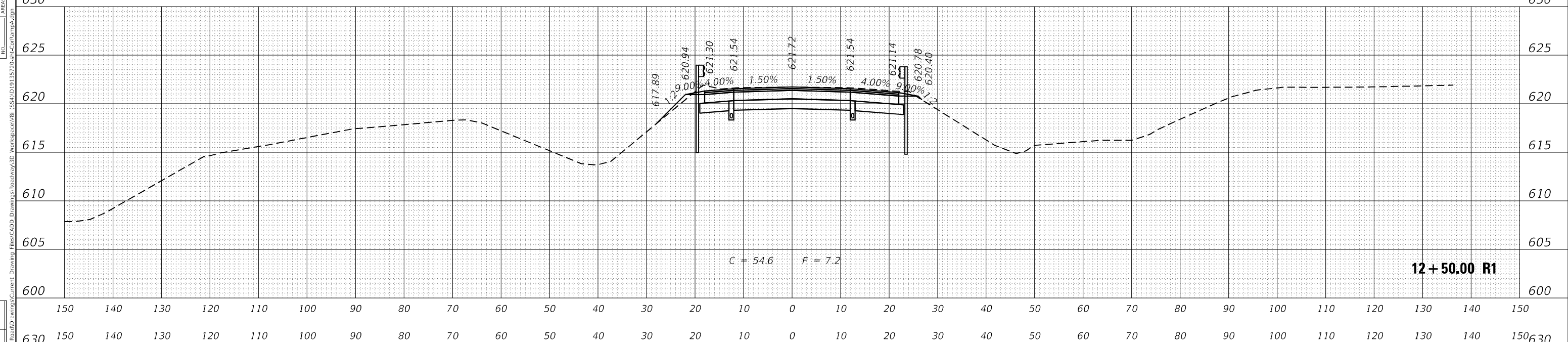
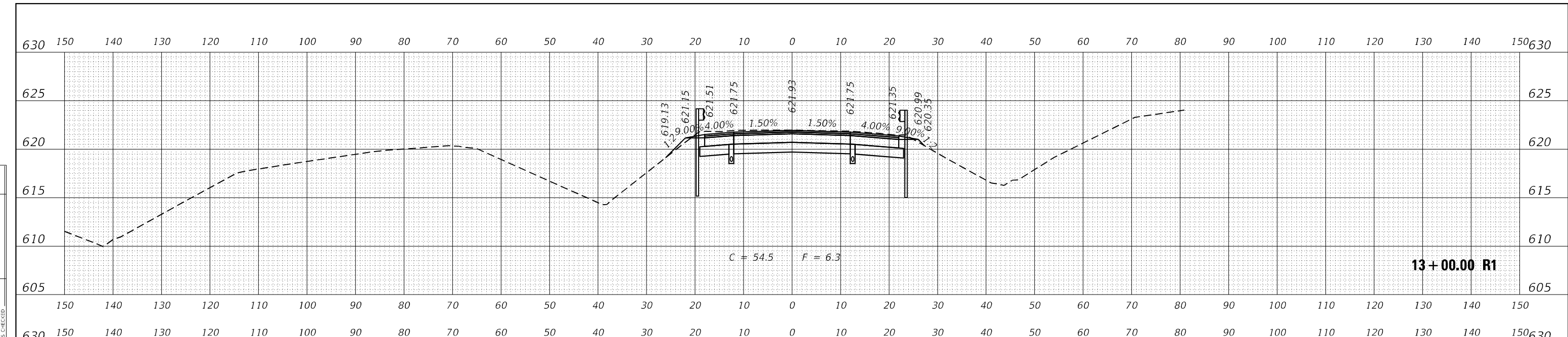
CROSS SECTIONS
 IL 171 RAMP A

SCALE: SHEET 10 OF 13 SHEETS STA. 10+50.00 R1 TO STA. 11+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	150
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



USER NAME	= Michael.Czerpak	DESIGNED	- MAC	REVISED	-
		DRAWN	- MAC	REVISED	-
PLOT SCALE	= 20,0012 * / in.	CHECKED	- AMB	REVISED	-
PLOT DATE	= 10/18/2023	DATE	- 10/18/2023	REVISED	-

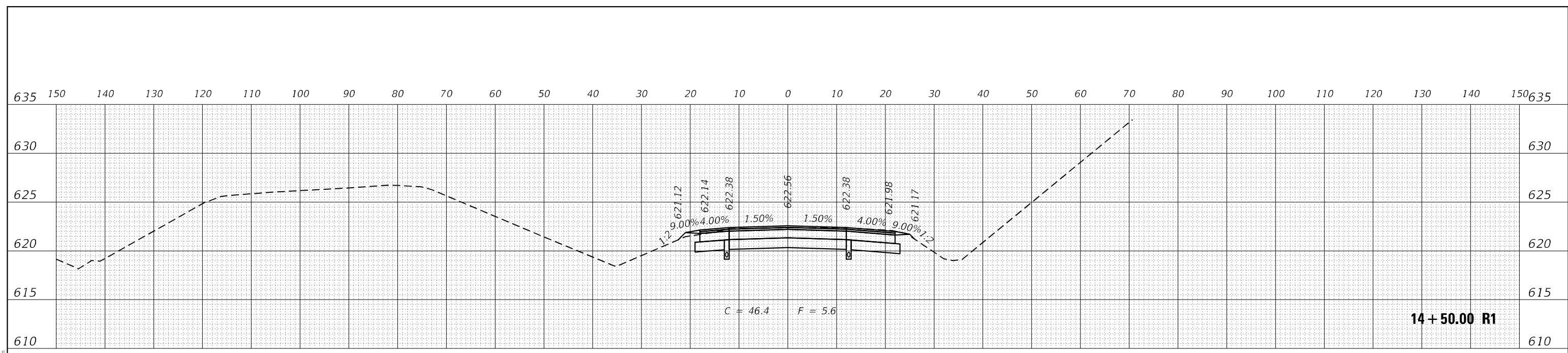
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
IL 171 RAMP A**

SCALE: SHEET 11 OF 13 SHEETS STA. 12+00.00 R1 TO STA. 13+00.00 R1

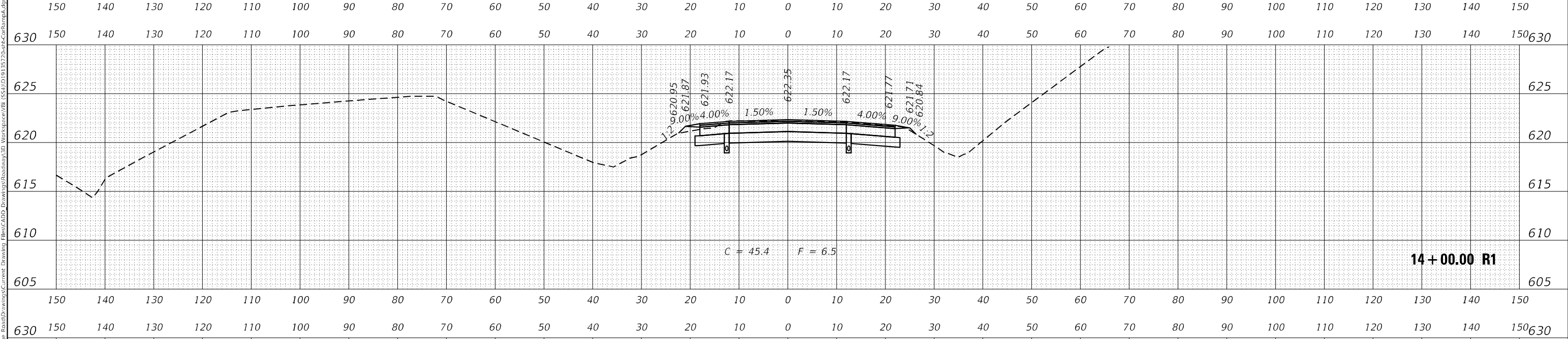
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	151
CONTRACT NO. 62K60				
ILLINOIS		FED. AID PROJECT		

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	
FINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
NO.	



14+50.00 R1

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
NO.	



14+00.00 R1



USER NAME	= Michael.Czerpak
DESIGNED	- MAC
DRAWN	- MAC
CHECKED	- AMB
DATE	- 10/18/2023
PLLOT SCALE	= 20,0012' */ in.
PLLOT DATE	= 10/18/2023

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 171 RAMP A

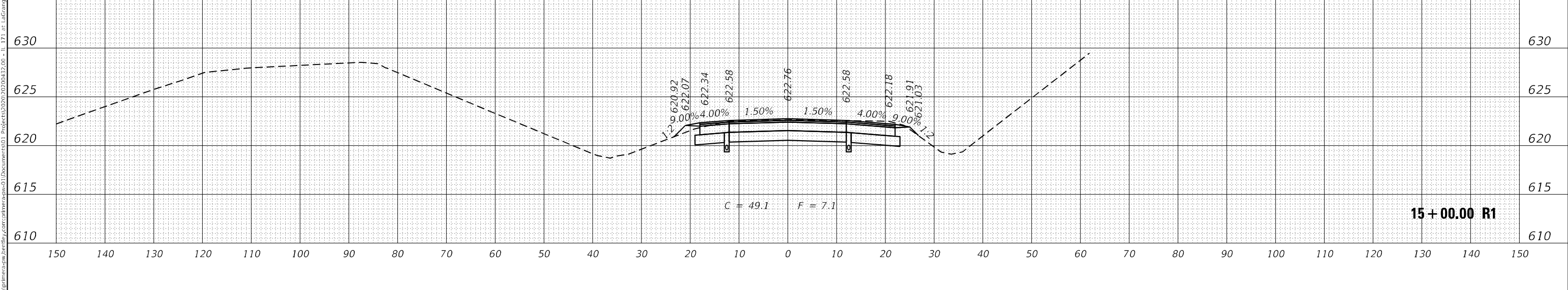
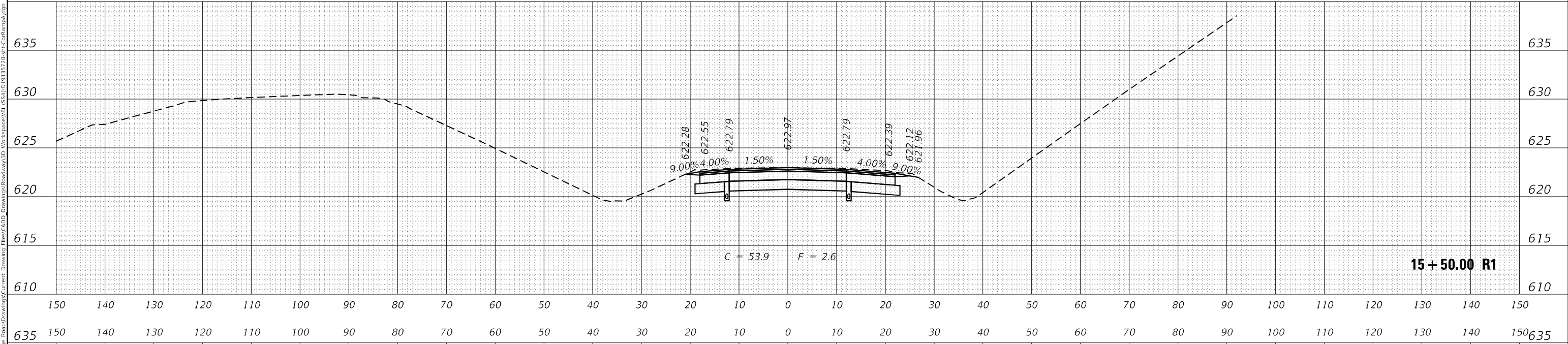
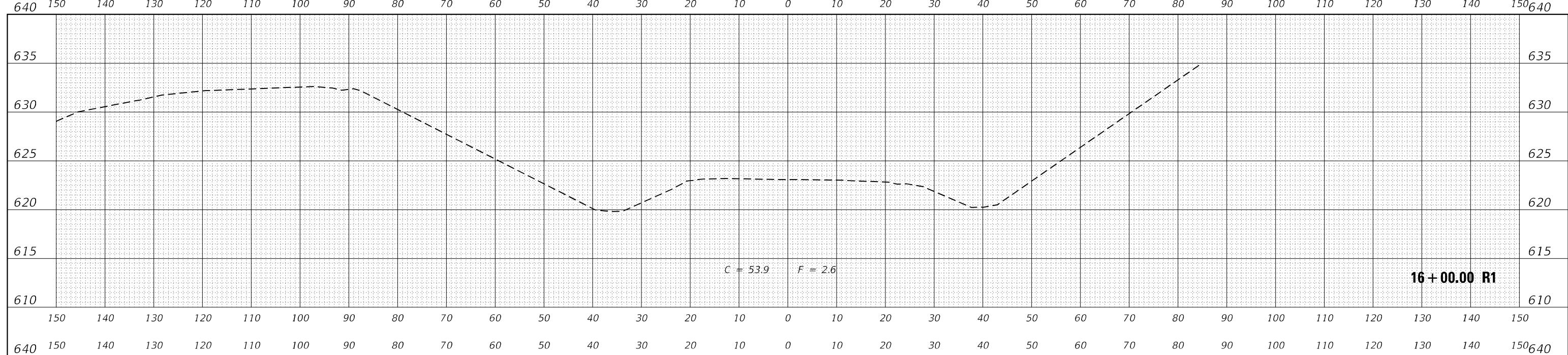
SCALE: SHEET 12 OF 13 SHEETS STA. 13+50.00 R1 TO STA. 14+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	152
CONTRACT NO. 62K60				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

MODEL: RA1MPA_Current
 FILE NAME: p:\projects\ra1mpa\ra1mpa.dwg



USER NAME	= Michael.Czerpak	DESIGNED	- MAC	REVISED	-
		DRAWN	- MAC	REVISED	-
PLOT SCALE	= 20,0012 */ in.	CHECKED	- AMB	REVISED	-
PLOT DATE	= 10/18/2023	DATE	- 10/18/2023	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 171 RAMP A**

SCALE: SHEET 13 OF 13 SHEETS STA. 15+00.00 R1 TO STA. 16+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-187-B	COOK	153	153
CONTRACT NO. 62K60				
ILLINOIS		FED. AID PROJECT		