

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	1
		ILLINOIS	CONTRACT NO. 62H50	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

CICERO AVENUE (IL 50)
ADT: 43,900
ADTT: 1,500
DESIGN SPEED: 35 MPH
POSTED SPEED: 35 MPH
DESIGN DESIGNATION: PRINCIPAL ARTERIAL

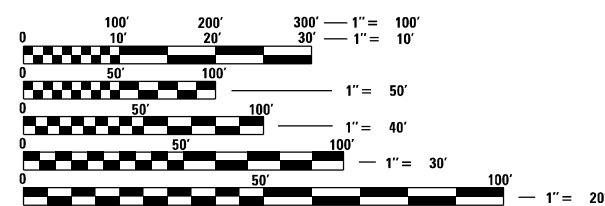
THE PROJECT LOCATED IN THE CITY OF CHICAGO AND IN THE VILLAGE OF BEDFORD PARK.

PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 350: IL 50 (CICERO AVE) OVER BRC RR
SECTION 2018-124-BR
PROJECT NHPP-E856(707)
BRIDGE OVERLAY, JOINT REPLACEMENT,
AND SUBSTRUCTURE REPAIRS
COOK COUNTY

C-91-260-19

<p>APPLIES TO SHEETS 38-76</p> <p>LICENSED STRUCTURAL ENGINEER, STATE OF ILLINOIS EXPIRES: 11/30/2020</p>	<p>APPLIES TO SHEETS 1-12 ; 15-16 ; 18-21 ; 23-30 ; 33 ; 35 ; 80-91</p> <p>LICENSED CIVIL ENGINEER, STATE OF ILLINOIS EXPIRES: 11/30/2021</p>
<p>APPLIES TO SHEETS 13-14 ; 22 ; 36-37 ; 92-95</p> <p>LICENSED CIVIL ENGINEER, STATE OF ILLINOIS EXPIRES: 11/30/2021</p>	<p>APPLIES TO SHEETS 17 ; 31-32 ; 34</p> <p>LICENSED CIVIL ENGINEER, STATE OF ILLINOIS EXPIRES: 11/30/2021</p>

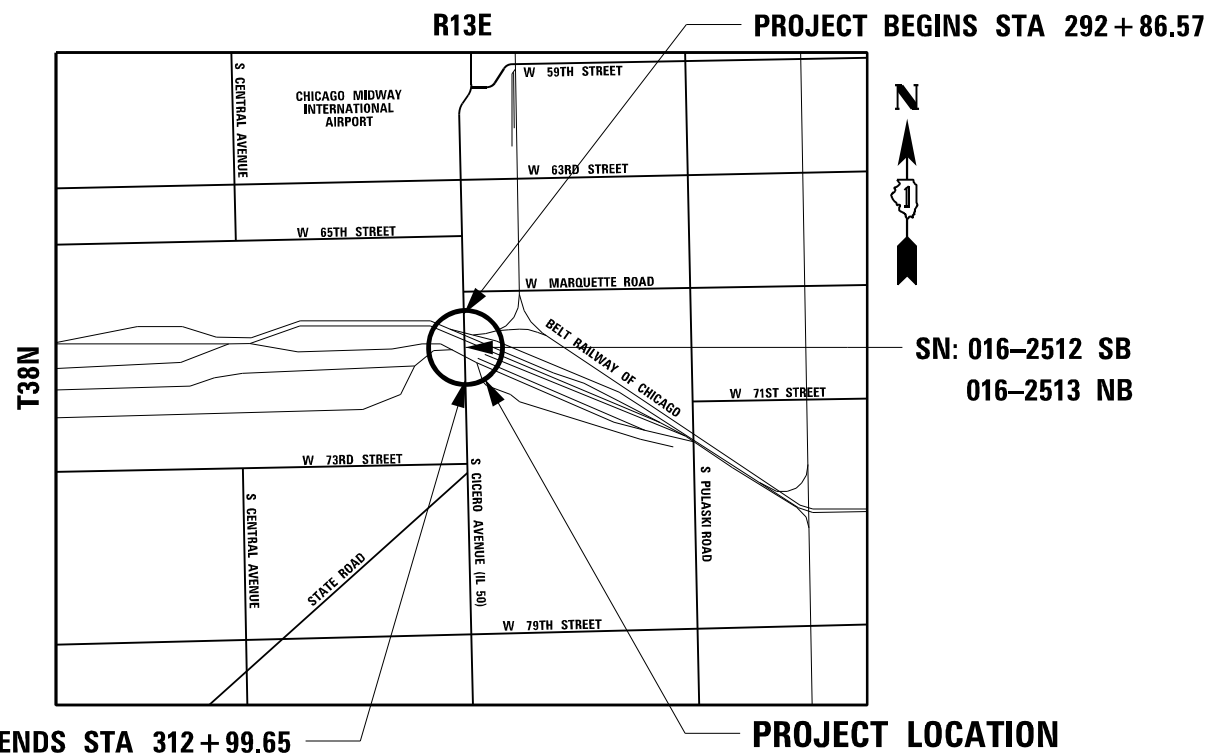


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

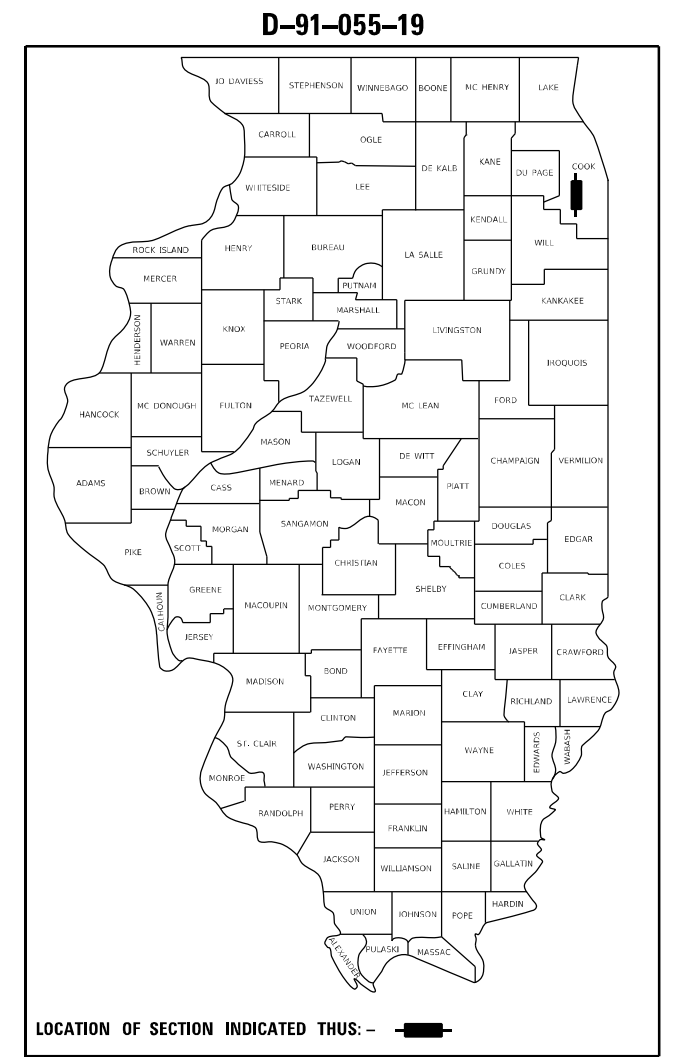
PROJECT ENGINEER: PRAVEEN KAINI, P.E. (847)705-4237
PROJECT MANAGER: J. ALAIN MIDY, P.E. (847)221-3056

CONTRACT NO. 62H50



PROJECT ENDS STA 312+99.65 PROJECT LOCATION

PROJECT LENGTH
GROSS AND NET LENGTH = 672.28 FT. = 0.127 MILE



garza karhoff ENGINEERING, LLC AEG ATLAS ENGINEERING GROUP, LTD.

exp. exp U.S. Services Inc. Chicago, IL BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *December 6, 2020*

Anthony J. ... REGIONAL ENGINEER
December 4, 2020

Scott A. ... ENGINEER OF DESIGN AND ENVIRONMENT
December 4, 2020

James J. ... DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

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INDEX OF SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
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18	EXISTING PLAN
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21	SUGGESTED STAGES OF CONSTRUCTION
22-33	STAGING AND TRAFFIC CONTROL
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HIGHWAY STANDARDS

<u>STANDARD NO.</u>	<u>TITLE</u>
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
630001-12	STEEL PLATE BEAM GUARDRAIL
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
643001-02	SAND MODULE IMPACT ATTENUATORS
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.2 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRANSVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER, OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
782001-01	CURB REFLECTORS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT

DISTRICT ONE DETAILS

<u>DETAIL NO.</u>	<u>TITLE</u>
BD-07	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
BD-08	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
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TC-26	DRIVEWAY ENTRANCE SIGNING

COMMITMENTS

NONE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

INDEX OF SHEETS, HIGHWAY STANDARDS, DISTRICT ONE DETAILS & COMMITMENTS		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	2
			CONTRACT NO. 62H50	
ILLINOIS FED. AID PROJECT				

REV-SEP

GENERAL NOTES

- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800)892-0123 OR 811 OR CALL "C.U.A.N." (CHICAGO UTILITY ALERT NETWORK) AT (312)744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED.)
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO AND THE CITY OF BEDFORD PARK.
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4. 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.
- 5. THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.
- 6. MATCH EXISTING PAVEMENT MARKINGS AT PROJECT LIMITS.
- 7. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 8. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 9. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO ENSURE THAT NO DEBRIS WILL ENDANGER OR INTERFERE WITH THE RAILROAD BENEATH THE BRIDGE ACCORDING TO ARTICLE 107.12 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPROPRIATE PAY ITEM INVOLVED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 10. THERE IS EXISTING CONDUIT FOR FIBER OPTIC SIGNAL INTERCONNECT MOUNTED TO THE PARAPET ON THE WEST SIDE OF THE SOUTHBOUND BRIDGE. THE CONTRACTOR MUST PROTECT THIS CONDUIT AT ALL TIMES DURING CONSTRUCTION AND MUST USE EXTREME CARE WHILE REMOVING PORTIONS OF THE CONCRETE PARAPET FOR JOINT REPLACEMENT. THE CONDUIT MUST BE RIGIDLY SUPPORTED AT ALL TIMES IN ORDER TO MINIMIZE DEFLECTION AND MOVEMENT.
- 11. THE CITY OF CHICAGO HAS A 2" STREET LIGHTING CONDUIT EMBEDDED IN THE PARAPET ON THE WEST SIDE OF THE SOUTHBOUND BRIDGE AND ON THE EAST SIDE OF THE NORTHBOUND BRIDGE. CARE SHALL BE TAKEN NOT TO DAMAGE THIS CONDUIT DURING CONSTRUCTION.
- 12. 10 FOOT TRANSITIONS SHALL BE USED TO MATCH THE PROPOSED CURB & GUTTER TO THE EXISTING.
- 13. ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GPS DERIVED.
- 14. TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT EMAD ALHUSSEINI ,AREA TRAFFIC FIELD ENGINEER AT EMAD.ALHUSSEINI@ILLINOIS.GOV OR AT (847)705-4412.
- 15. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- 16. AT LEAST TWO (2) WEEKS PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY PACE ENGINEER, RICK WILLMAN AT (847)228-3584.

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		PLOT DATE =	10/14/2020				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	3
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% Fed / 20% State	80% Fed / 20% State
				BRIDGE	BRIDGE
				0059	0059
				016-2512	016-2513
20200100	EARTH EXCAVATION	CU YD	1,146	573	573
20700220	POROUS GRANULAR EMBANKMENT	CU YD	5	5	
21101600	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	SQ YD	67	33	34
25000210	SEEDING, CLASS 2A	ACRE	0.1	0.1	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	2	1	1
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	2	1	1
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	2	1	1
25100630	EROSION CONTROL BLANKET	SQ YD	67	33	34
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	3,108	1,554	1,554
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	796	398	398
40600958	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	586	293	293
42001300	PROTECTIVE COAT	SQ YD	1,309	654	655
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	708	354	354
44000100	PAVEMENT REMOVAL	SQ YD	369	184	185

* SPECIALTY ITEM

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PLOT DATE = 10/14/2020	DATE -	REVISED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H50	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% Fed / 20% State	80% Fed / 20% State
				BRIDGE	BRIDGE
				0059	0059
				016-2512	016-2513
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,818	909	909
44000600	SIDEWALK REMOVAL	SQ FT	709	354	355
50102400	CONCRETE REMOVAL	CU YD	20.1	11.5	8.6
50104650	SLOPE WALL REMOVAL	SQ YD	3	3	
50157300	PROTECTIVE SHIELD	SQ YD	6,521	3,331	3,190
50300225	CONCRETE STRUCTURES	CU YD	1.7	0.8	0.9
50300255	CONCRETE SUPERSTRUCTURE	CU YD	24.1	13.8	10.3
50300260	BRIDGE DECK GROOVING	SQ YD	6,073	2,957	3,116
50300300	PROTECTIVE COAT	SQ YD	8,432	4,104	4,328
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	860		860
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4,590	2,590	2,000
50800515	BAR SPLICERS	EACH	56	32	24
51100100	SLOPE WALL 4 INCH	SQ YD	3	3	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	364	207	157

* SPECIALTY ITEM

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

SUMMARY OF QUANTITIES
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	5
CONTRACT NO. 62H50				

ILLINOIS FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% Fed / 20% State	80% Fed / 20% State
				BRIDGE	BRIDGE
				0059	0059
				016-2512	016-2513
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	1		1
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	8		8
52100520	ANCHOR BOLTS, 1"	EACH	68		68
550A0360	STORM SEWERS, CLASS A, TYPE 2, 15"	FOOT	10	5	5
58700300	CONCRETE SEALER	SQ FT	1,397	1,109	288
59000200	EPOXY CRACK INJECTION	FOOT	172	134	38
60240225	INLETS, TYPE B, TYPE 4 FRAME AND GRATE	EACH	2	1	1
60250200	CATCH BASINS TO BE ADJUSTED	EACH	30	15	15
60250700	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 4 FRAME AND GRATE	EACH	3	1	2
60255500	MANHOLES TO BE ADJUSTED	EACH	12	6	6
60256000	MANHOLES TO BE ADJUSTED WITH NEW TYPE 4 FRAME AND GRATE	EACH	1	1	
60260100	INLETS TO BE ADJUSTED	EACH	2	1	1
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	48	24	24
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,447	723	724

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS
		STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H50	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% Fed / 20% State	80% Fed / 20% State
				BRIDGE	BRIDGE
				0059	0059
				016-2512	016-2513
60604300	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (VARIABLE WIDTH GUTTER FLAG)	FOOT	369	184	185
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	151	75	76
60626300	STABILIZED MEDIAN SURFACE	SQ YD	4,024	2,012	2,012
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1,413	706	707
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	5	2	3
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	5	2	3
63200310	GUARDRAIL REMOVAL	FOOT	1,993	996	997
63800920	MODULAR GLARE SCREEN SYSTEM, TEMPORARY	FOOT	1,138	569	569
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	580	290	290
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	1	1
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	0.5	0.5
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.5	0.5
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	6	6

* SPECIALTY ITEM

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 PLOT DATE: = 10/14/2020



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H50	

REV-SEP

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% Fed / 20% State	80% Fed / 20% State
				BRIDGE	BRIDGE
				0059	0059
				016-2512	016-2513
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	42	21	21
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	336	168	168
* 70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,228	1,114	1,114
* 70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	743	371	372
* 70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SQ FT	37	18	19
* 70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	27,827	13,913	13,914
* 70300906	PAVEMENT MARKING TAPE, TYPE IV 6"	FOOT	675	337	338
* 70300908	PAVEMENT MARKING TAPE, TYPE IV 8"	FOOT	1,588	794	794
* 70300912	PAVEMENT MARKING TAPE, TYPE IV 12"	FOOT	216	108	108
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2,238	1,119	1,119
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	3,975	1,987	1,988
70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	250	125	125
70500665	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	2	2

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H50	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% Fed / 20% State	80% Fed / 20% State
				BRIDGE	BRIDGE
				0059	0059
				016-2512	016-2513
70600235	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 2	EACH	4	2	2
70600240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	4	2	2
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	218	109	109
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	917	458	459
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	449	224	225
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	311	155	156
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	99	49	50
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	747	373	374
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	68	34	34
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	4,712	2,356	2,356
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	493	246	247
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	50	25	25
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	32	16	16
* 78100300	REPLACEMENT REFLECTOR	EACH	112	56	56

* SPECIALTY ITEM

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PLOT DATE = 10/14/2020	DATE -	REVISED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	9
			CONTRACT NO. 62H50	
		ILLINOIS	FED. AID PROJECT	



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% Fed / 20% State	80% Fed / 20% State
				BRIDGE	BRIDGE
				0059	0059
				016-2512	016-2513
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	45	22	23
78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	56	28	28
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	13	6	7
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	1	1
X0322463	CONNECTION TO EXISTING SEWER	EACH	1	1	
X0325748	ACRYLIC COATING	SQ YD	165	86	79
X0325749	FIBER WRAP	SQ FT	1,465	763	702
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	5,491	2,745	2,746
* X2700003	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	2,322	1,161	1,161
* X2700004	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7"	FOOT	2,322	1,161	1,161
X4403800	MEDIAN SURFACE REMOVAL	SQ FT	37,530	18,765	18,765
X6380200	RELOCATE MODULAR GLARE SCREEN SYSTEM	FOOT	1,138	569	569
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	0.5	0.5
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	10,837	5,418	5,419

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H50	

REV-SEP

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% Fed / 20% State	80% Fed / 20% State
				BRIDGE	BRIDGE
				0059	0059
				016-2512	016-2513
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	6	3	3
X7050169	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (FLARED)	EACH	4	2	2
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	112	56	56
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	9		9
Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	6,571	3,193	3,378
<input type="checkbox"/> Z0010605	CLEANING DRAINAGE SYSTEM	L SUM	1	0.5	0.5
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	6,571	3,193	3,378
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	2,076	1,532	544
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	32	8	24
Z0012800	CONCRETE PAVEMENT SCARIFICATION	SQ YD	586	293	293
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5
** Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	1	0.5	0.5
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	2		2
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	54	54	

* SPECIALTY ITEM ** A NOMINAL DECK SLAB REPAIR (FULL DEPTH, TYPE I) QUANTITY HAS BEEN PROVIDED AS A GUIDE FOR BIDDING PURPOSES. ACTUAL FULL DEPTH REPAIR AREA SHALL BE DETERMINED BY THE ENGINEER.

REV-SEP

NON-PART 100% STATE

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 GARZA KARHOFF ENGINEERING, LLC

USER NAME = anthony.friedman
 DESIGNED -
 DRAWN - AMF
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 10/14/2020

DESIGNED -
 DRAWN - AMF
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H50	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% Fed / 20% State	80% Fed / 20% State
				BRIDGE	BRIDGE
				0059	0059
				016-2512	016-2513
Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	16	8	8
<input type="checkbox"/> Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	32	16	16
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	74	37	37
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	216	114	102
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	0.5	0.5
Z0062456	TEMPORARY PAVEMENT	SQ YD	3,536	1,768	1,768
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	21	15	6
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	1	1
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	151	75	76
<input type="checkbox"/> Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500	

* SPECIALTY ITEM

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 DESIGNER: ANTHONY FRIEDMAN
 DRAWN: AMF
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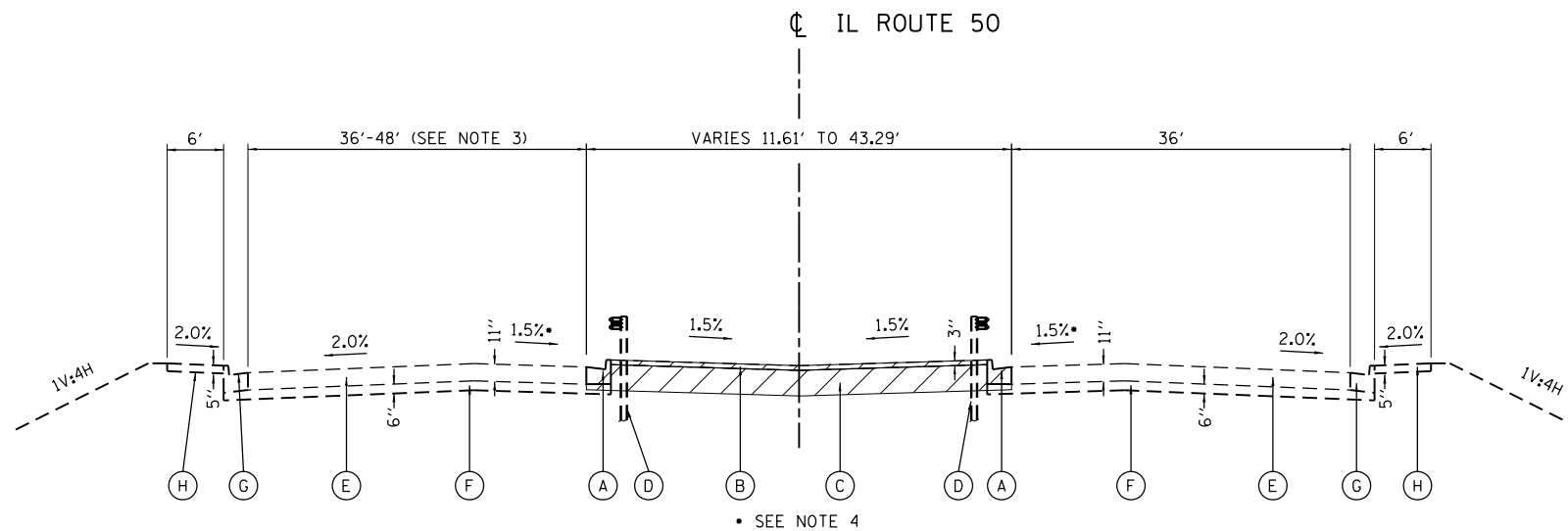
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

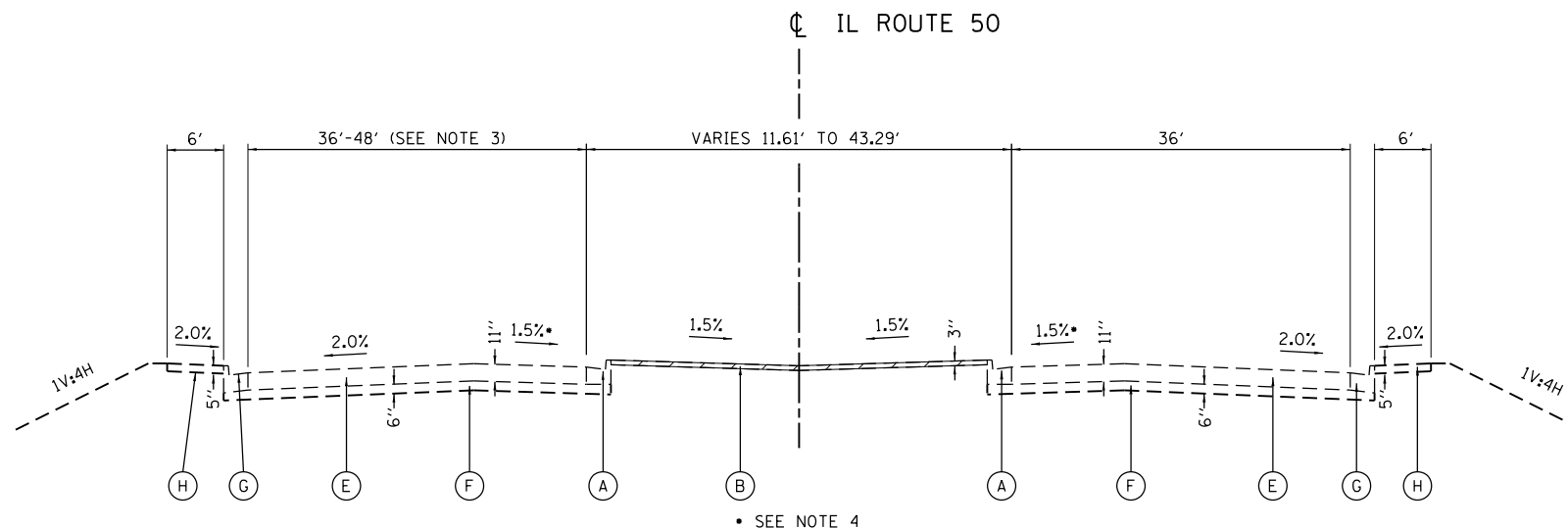
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350	2018-124-BR	COOK	95	12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H50	

Ø 0042
REV-SEP

NON-PART 100% STATE



**EXISTING TYPICAL SECTION
IL ROUTE 50 (CICERO AVENUE)**
STA. 293+29.10 TO STA. 297+39.43
STA. 304+35.69 TO STA. 308+65.00



**EXISTING TYPICAL SECTION
IL ROUTE 50 (CICERO AVENUE)**
STA. 292+86.57 TO STA. 293+29.10
STA. 308+65.00 TO STA. 312+99.62

EXISTING LEGEND

- (A) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (B) MEDIAN SURFACE REMOVAL
- (C) EARTH EXCAVATION (SEE NOTE 1)
- (D) GUARDRAIL (SEE NOTE 2)
- (E) PORTLAND CEMENT CONCRETE PAVEMENT
- (F) SUB-BASE GRANULAR MATERIAL, TYPE A

- (G) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (H) PORTLAND CEMENT CONCRETE SIDEWALK

REMOVAL LEGEND



GENERAL NOTES

1. EARTH EXCAVATION TO BOTTOM OF TEMPORARY PAVEMENT. SEE STAGING AND TRAFFIC CONTROL TYPICAL SECTIONS.
2. SEE ROADWAY PLANS FOR PAY ITEMS AND LIMITS.
3. FROM STA 292+85 TO STA 295+00, THE WIDTH VARIES FROM 36 FT TO 48 FT.
4. FROM STA 292+85 TO STA 295+00, THE CROSS SLOPE TRANSITIONS FROM 1.5% SLOPING AWAY FROM THE MEDIAN TO 1.5% TOWARD THE MEDIAN.

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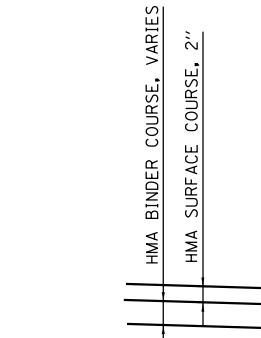
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

TYPICAL SECTIONS
EXISTING

SCALE: SHEET OF SHEETS STA. TO STA.

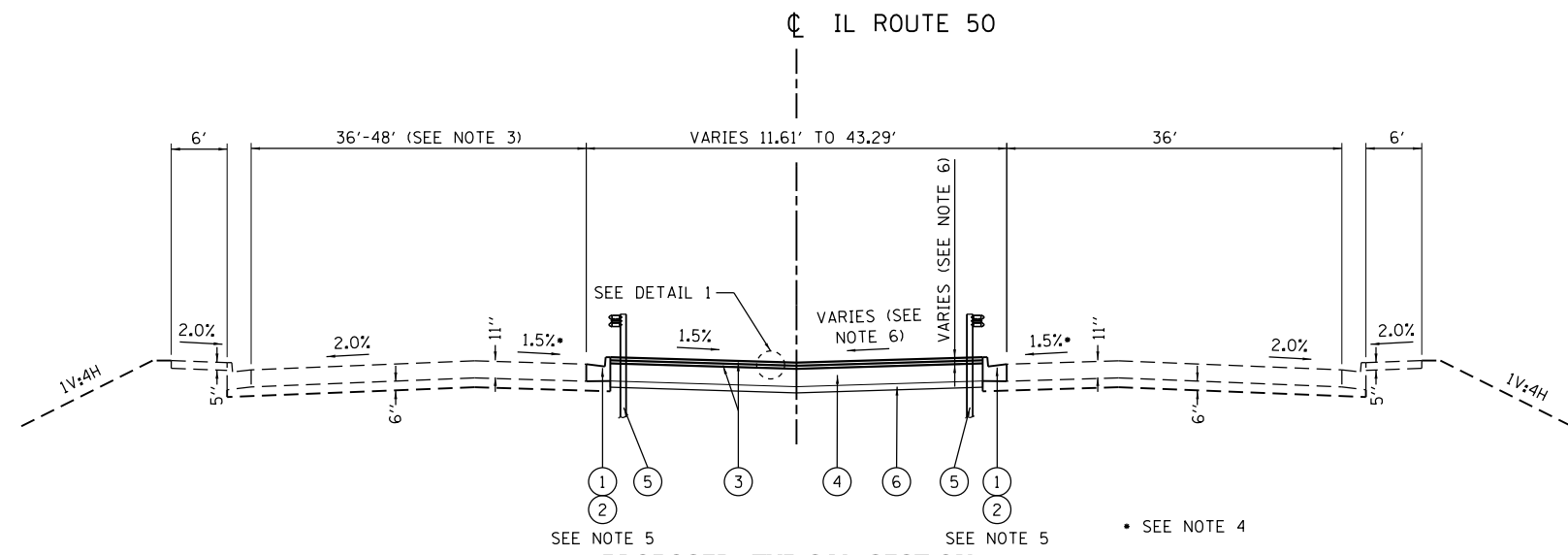
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	13
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				



DETAIL 1 - STABILIZED MEDIAN SURFACE:
MIXTURE TYPES AND THICKNESSES

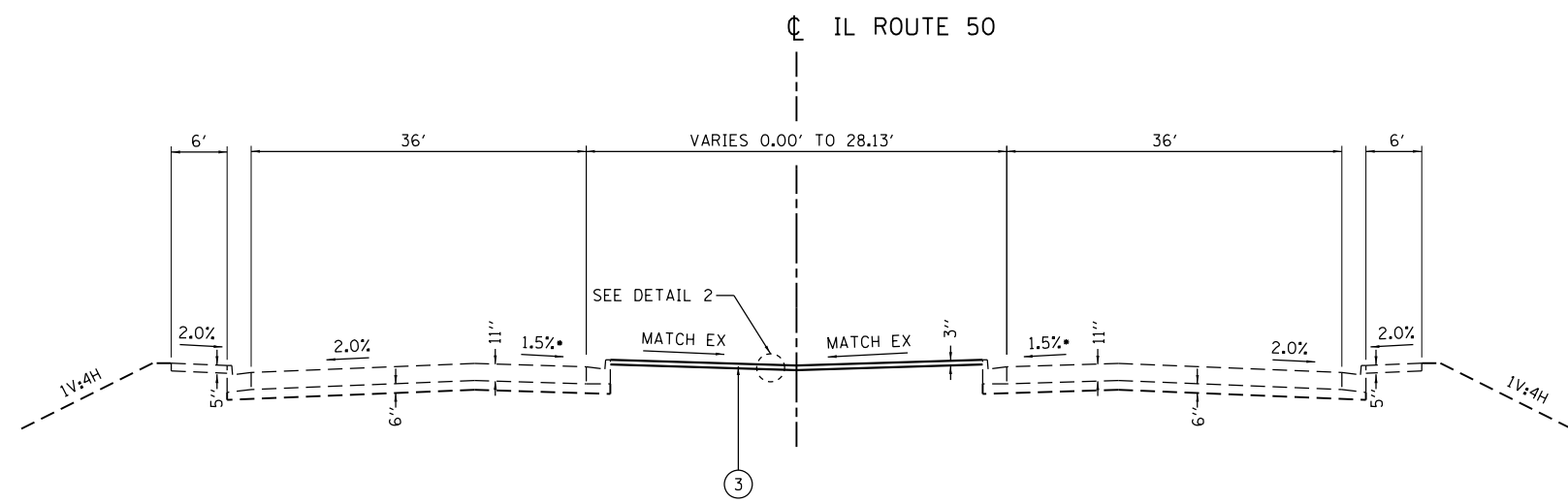


DETAIL 2 - STABILIZED MEDIAN SURFACE:
MIXTURE TYPES AND THICKNESSES



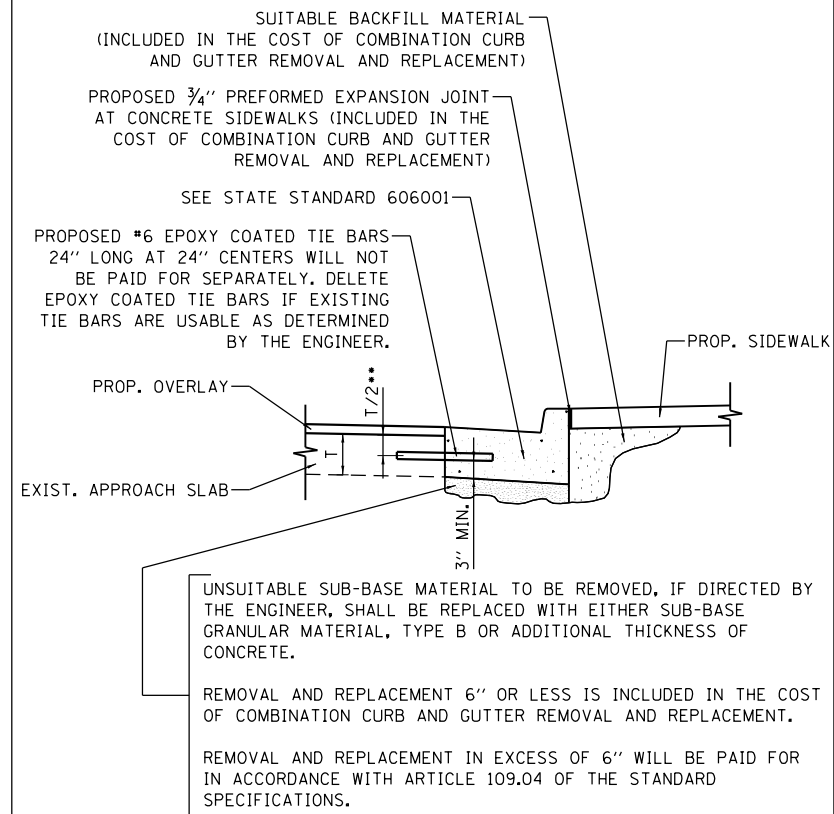
**PROPOSED TYPICAL SECTION
IL ROUTE 50 (CICERO AVENUE)**

STA. 293+29.10 TO STA. 297+39.43
STA. 304+35.69 TO STA. 308+65.00



**PROPOSED TYPICAL SECTION
IL ROUTE 50 (CICERO AVENUE)**

STA. 292+86.57 TO STA. 293+29.10
STA. 308+65.00 TO STA. 312+99.62



**DETAIL 3 - COMBINATION CURB AND GUTTER
REMOVAL AND REPLACEMENT**

NB IL-50: STA. 297+20.89 TO 297+63.61
STA. 304+39.44 TO 304+69.65
SB IL-50: STA. 297+25.37 TO 297+55.46
STA. 303+87.59 TO 304+34.95

DETAIL 3 NOTES

- 3" MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- 1. COMB. CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- 2. LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT.
- 3. THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES	OMP
STABILIZED MEDIAN SURFACE		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	4% @ 70 GYR.	QC/OA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	QC/OA
TEMPORARY PAVEMENT		
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	QC/OA

HMA MIXTURE REQUIREMENTS NOTES

- 1. THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY THE SPECIAL PROVISIONS.
- 2. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
- 3. QUALITY MANAGEMENT PROGRAM (OMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
- 4. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SO YD/IN.

PROPOSED LEGEND

- ① COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SEE NOTE 5)
- ② CONCRETE CURB, TYPE B
- ③ STABILIZED MEDIAN SURFACE
- ④ TEMPORARY PAVEMENT (SEE NOTE 1)
- ⑤ GUARDRAIL (SEE NOTE 2)
- ⑥ SUBBASE GRANULAR MATERIAL, TYPE B 4" (SEE NOTE 1)

GENERAL NOTES

- 1. TEMPORARY PAVEMENT BENEATH THE PROPOSED STABILIZED MEDIAN SURFACE SHALL REMAIN IN PLACE. TEMPORARY PAVEMENT THAT CONFLICTS WITH THE PROPOSED COMBINATION CURB AND GUTTER SHALL BE REMOVED. SEE STAGING AND TRAFFIC CONTROL TYPICAL SECTIONS.
- 2. SEE ROADWAY PLANS FOR PAY ITEMS AND LIMITS.
- 3. FROM STA 292+85 TO STA 295+00, THE WIDTH VARIES FROM 48 FT TO 36 FT.
- 4. FROM STA 292+85 TO STA 295+00, THE CROSS SLOPE TRANSITIONS FROM 1.5% SLOPING AWAY FROM THE MEDIAN TO 1.5% TOWARD THE MEDIAN.
- 5. TYPE OF CURB AND GUTTER VARIES. SEE ROADWAY PLANS FOR PAY ITEMS AND LIMITS.
- 6. SEE CROSS SECTIONS FOR PROPOSED GRADES OF STABILIZED MEDIAN SURFACE.

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 USER: anthony.friedman
 DESIGNED: BKW
 DRAWN: BKW
 CHECKED: DDH
 DATE: 10/15/2020
 REVISED: -
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 REVISED: -
 exp U.S. Services Inc. Chicago, IL
 BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

TYPICAL SECTIONS
PROPOSED

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	14
CONTRACT NO. 62H50				
		ILLINOIS	FED. AID PROJECT	

70400200 TOTAL: 3,975 FOOT					
RELOCATE TEMPORARY CONCRETE BARRIER					
FROM STATION	OFFSET	TO STATION	OFFSET	LENGTH (FOOT)	SUBTOTALS (FOOT)
STAGE 1B					
296+39.36	-50.6	306+25.64	-57.9	987.5	987.5
STAGE 2A					
294+39.72	-14.9	305+74.26	-29.1	1,137.5	1,137.5
295+86.13	18.4	305+09.40	28.0	925	925
STAGE 2B					
295+85.53	38.3	305+09.35	30.5	925	925

70500100 TOTAL: 250 FOOT					
TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A					
FROM STATION	OFFSET	TO STATION	OFFSET	LENGTH (FOOT)	SUBTOTALS (FOOT)
STAGE 1A-1B					
304+54.82	7.32	305+42.30	6.14	87.5	87.5
304+70.45	-27.53	305+07.95	-27.52	37.5	37.5
STAGE 2A-2B					
296+27.52	-25.35	297+02.49	-26.75	75.0	75.0
296+68.26	8.02	297+18.26	7.95	50.0	50.0

70500665 TOTAL: 4 EACH				
TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6				
FROM STATION	OFFSET	TO STATION	OFFSET	SUBTOTALS
STAGE 1A-1B				
304+17.92	7.3	304+54.82	7.3	1
304+33.56	-27.5	304+70.45	-27.5	1
STAGE 2A-2B				
297+02.49	-26.8	297+39.39	-26.8	1
297+18.26	8.0	297+55.16	8.0	1

70600235 TOTAL: 4 EACH			
IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 2			
STATION	OFFSET		SUBTOTALS
STAGE 1A			
295+89.49	12.9		1
307+41.53	-6.0		1
STAGE 2A			
294+31.54	-13.6		1
305+83.59	-32.1		1

70600240 TOTAL: 4 EACH		
IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2		
STATION	OFFSET	SUBTOTALS
STAGE 1A		
306+71.61	-36.6	1
STAGE 1B		
306+34.57	-58.1	1
STAGE 2A		
295+76.98	17.9	1
STAGE 2B		
295+77.56	39.9	1

X6380200 TOTAL: 1,138 FOOT					
RELOCATE MODULAR GLARE SCREEN SYSTEM					
FROM STATION	OFFSET	TO STATION	OFFSET	LENGTH (FOOT)	SUBTOTALS (FOOT)
STAGE 2A-2B					
294+39.72	-14.9	305+74.26	-29.1	1,137.5	1,137.5

X7050169 TOTAL: 4 EACH				
TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (FLARED)				
FROM STATION	OFFSET	TO STATION	OFFSET	SUBTOTALS
STAGE 1A-1B				
305+07.95	-27.5	305+57.95	-27.5	1
305+42.30	6.1	305+91.82	0.3	1
STAGE 2A-2B				
295+78.04	-18.6	296+27.52	-25.4	1
296+18.26	8.1	296+68.26	8.0	1

Z0018500 TOTAL: 32 EACH	
DRAINAGE STRUCTURES TO BE CLEANED	
LOCATION	SUBTOTALS
REFER TO TEMPORARY PAVEMENT GRADING PLAN	32

XXXXXXX TOTAL: 151 FOOT				
COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT				
FROM STATION	OFFSET	TO STATION	OFFSET	SUBTOTALS
STAGE 1B				
297+20.89	-67.31	297+63.61	-67.43	41.36
304+39.44	-67.45	304+69.65	-67.62	31.09
STAGE 2B				
297+25.37	48.19	297+55.46	48.09	31.04
303+87.59	48.63	304+34.95	47.88	47.36

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 DATE: 10/14/2020

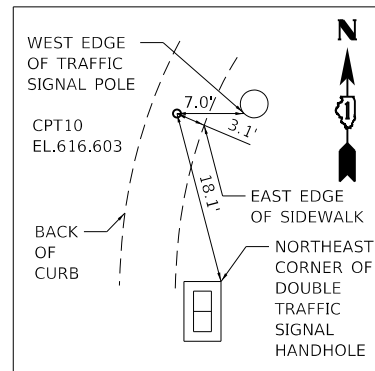
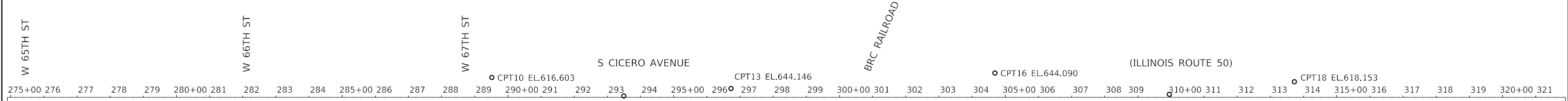
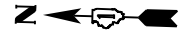
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

SCHEDULE OF QUANTITIES				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	16
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				

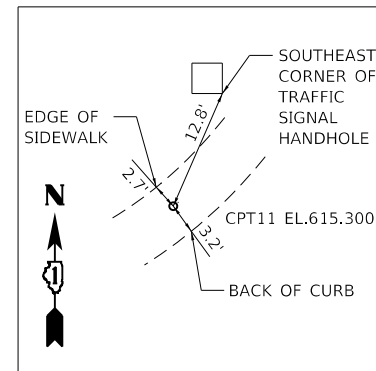
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POT	321+89.76	1856451.351	1145626.830



CONTROL POINT #10

SET CHX IN CONCRETE SIDEWALK

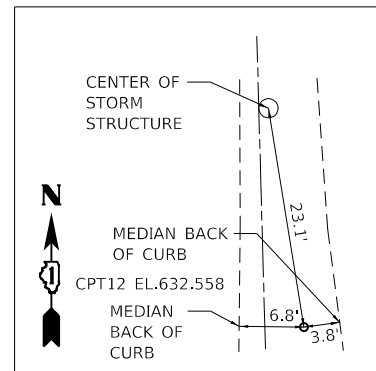
STA. 289+51.23, 59.82' RT.
 N 1859690.302
 E 1145598.014
 ELEV. 616.603



CONTROL POINT #11

SET CHX IN CONCRETE SIDEWALK

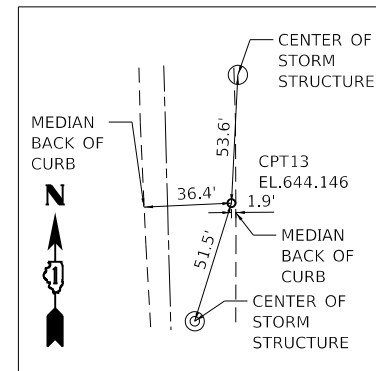
STA. 288+49.54, 62.53' LT.
 N 1859788.608
 E 1145472.923
 ELEV. 615.300



CONTROL POINT #12

SET MAG NAIL IN CONCRETE PAVEMENT

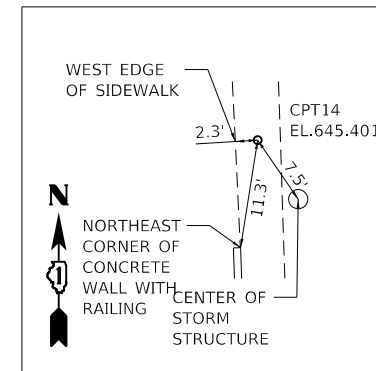
STA. 293+49.29, 4.09' RT.
 N 1859290.867
 E 1145553.191
 ELEV. 632.558



CONTROL POINT #13

SET MAG NAIL IN CONCRETE PAVEMENT

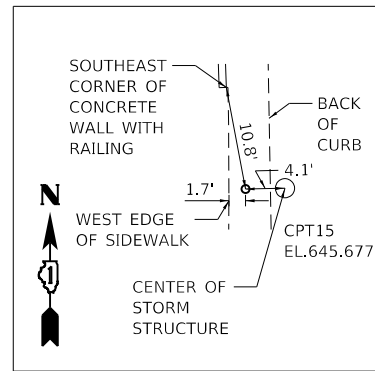
STA. 296+72.93, 26.61' RT.
 N 1858967.960
 E 1145584.564
 ELEV. 644.146



CONTROL POINT #14

SET CHX IN CONCRETE SIDEWALK

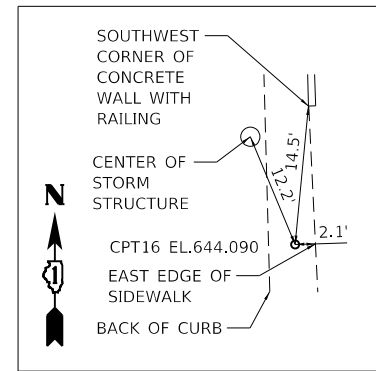
STA. 297+30.97, 53.09' LT.
 N 1858907.763
 E 1145506.484
 ELEV. 645.401



CONTROL POINT #15

SET CHX IN CONCRETE SIDEWALK

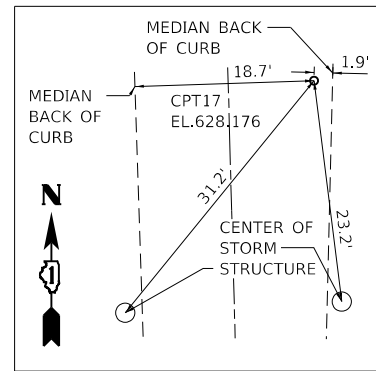
STA. 304+08.06, 52.65' LT.
 N 1858230.934
 E 1145525.442
 ELEV. 645.677



CONTROL POINT #16

SET CHX IN CONCRETE SIDEWALK

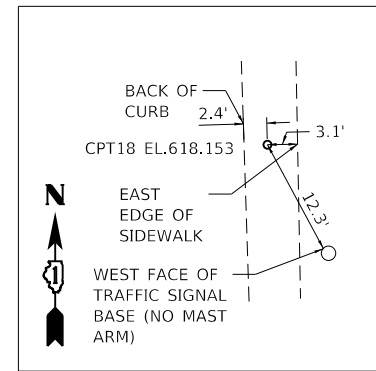
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 N 1858173.761
 E 1145652.820
 ELEV. 644.090



CONTROL POINT #17

SET MAG NAIL IN CONCRETE PAVEMENT

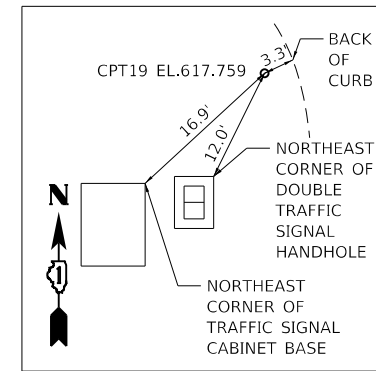
STA. 309+94.88, 8.94' RT.
 N 1857646.024
 E 1145603.073
 ELEV. 628.176



CONTROL POINT #18

SET CHX IN CONCRETE SIDEWALK

STA. 313+72.18, 46.84' RT.
 N 1857269.903
 E 1145651.280
 ELEV. 618.153



CONTROL POINT #19

SET CHX IN CONCRETE SIDEWALK

STA. 314+27.28, 54.53' LT.
 N 1857212.045
 E 1145551.453
 ELEV. 617.759

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 SHEET: 19105519-sht-ATB

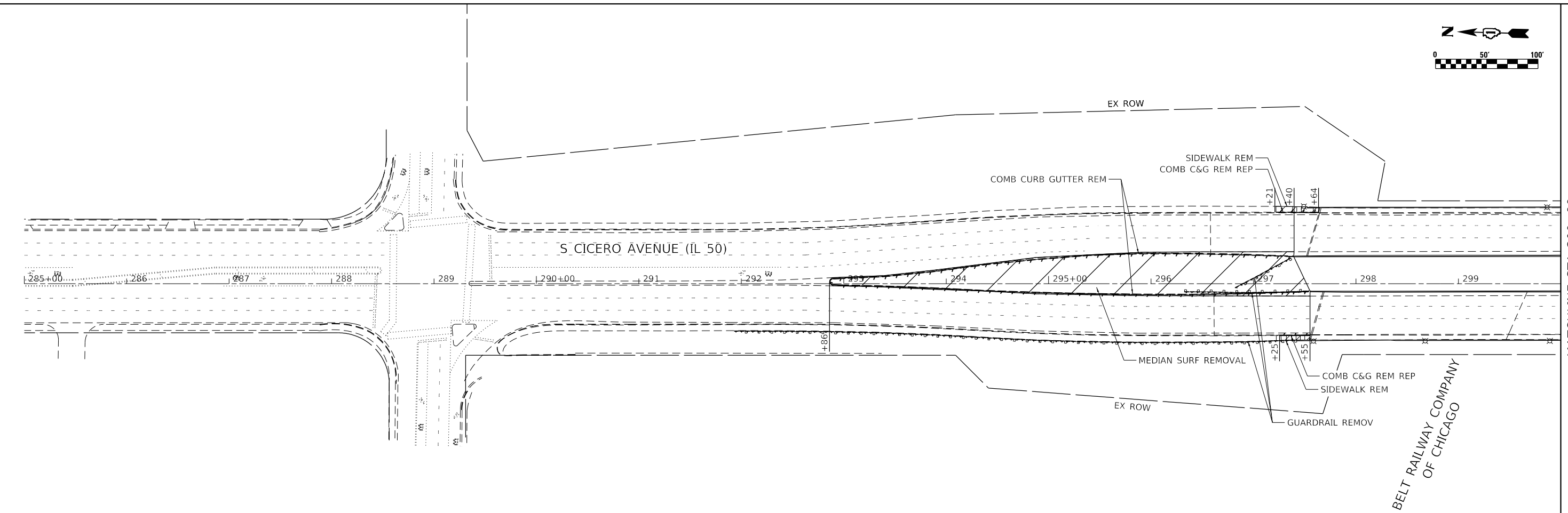
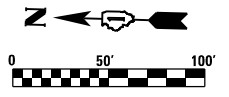
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PLOT DATE = 10/14/2020		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

ALIGNMENT & TIES			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

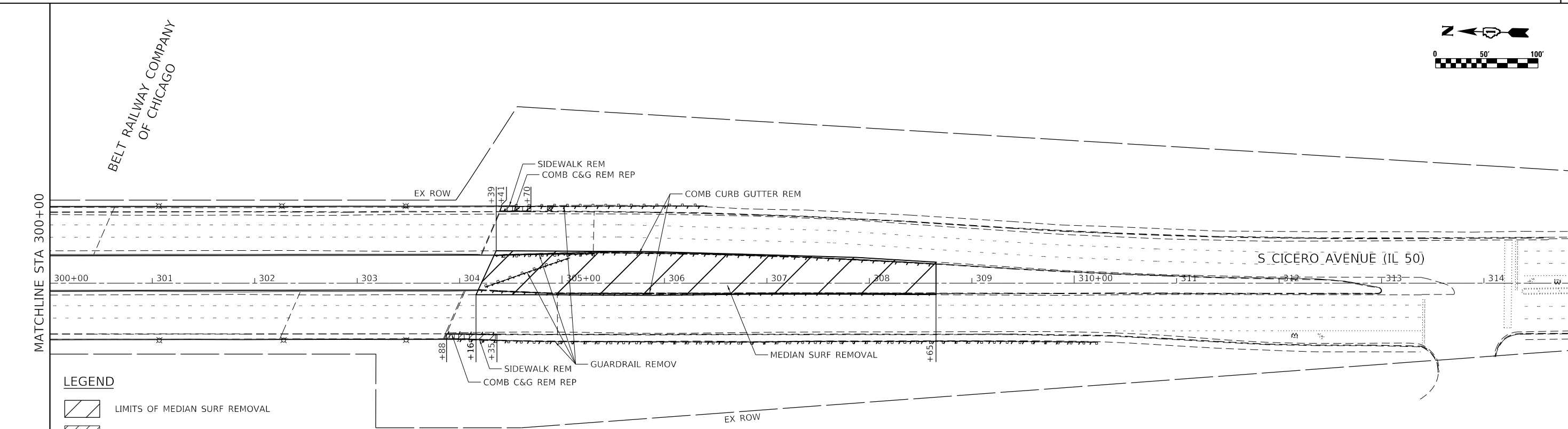
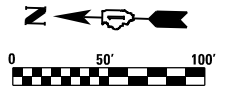
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	17
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				





MATCHLINE STA 300+00

BELT RAILWAY COMPANY
OF CHICAGO



MATCHLINE STA 300+00

BELT RAILWAY COMPANY
OF CHICAGO

LEGEND

- LIMITS OF MEDIAN SURF REMOVAL
- SIDEWALK REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT
- GUARDRAIL REMOVAL

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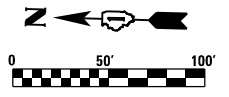
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PLOT DATE = 10/14/2020		DATE - 10/15/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

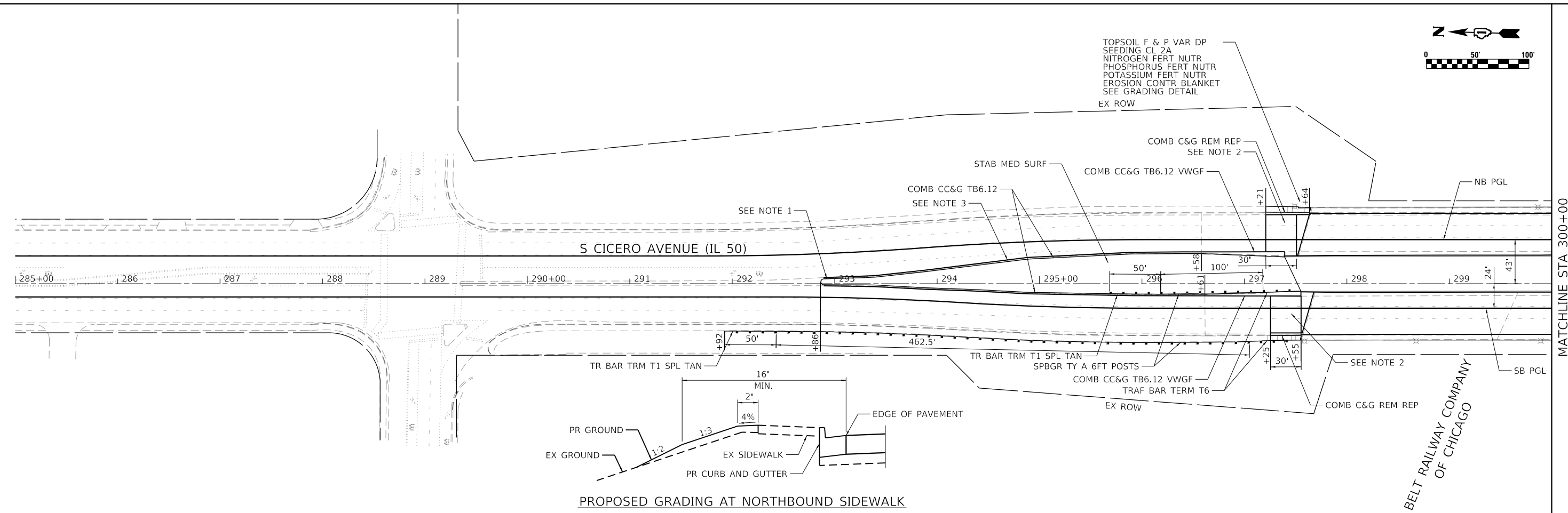
EXISTING CONDITIONS AND REMOVAL PLAN

SCALE: SHEET OF SHEETS STA. 293+09 TO STA. 308+91

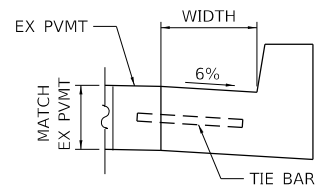
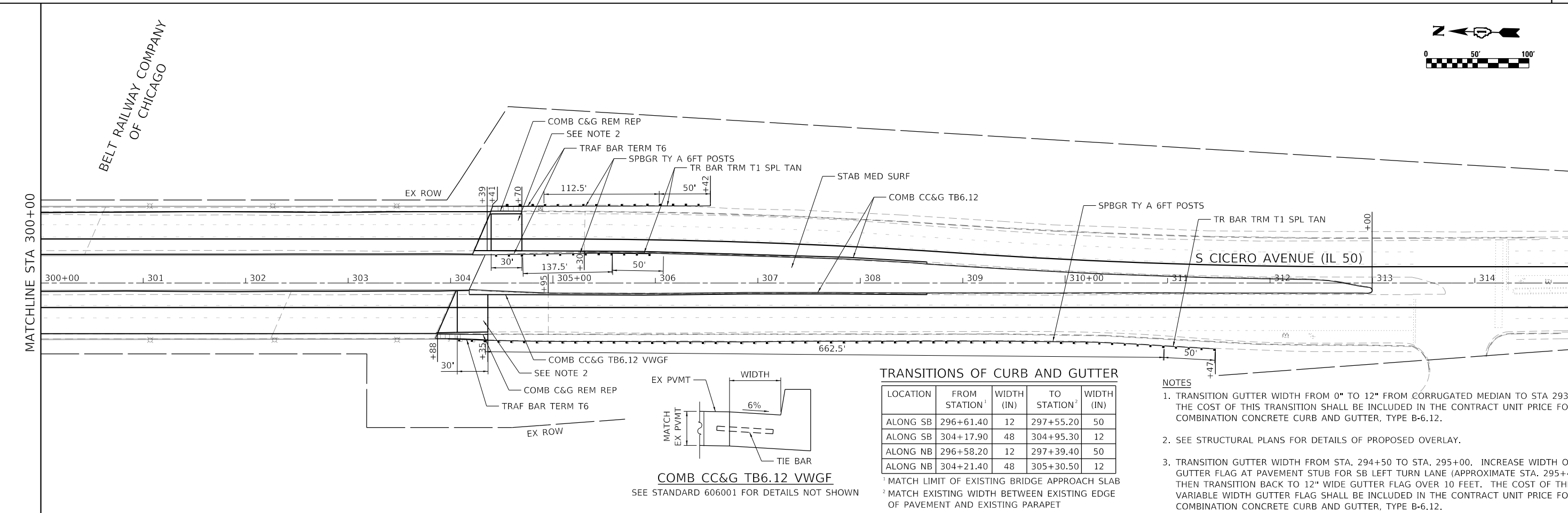
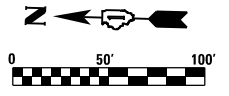
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350	2018-124-BR	COOK	95	18
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				



TOPSOIL F & P VAR DP
SEEDING CL. 2A
NITROGEN FERT NUTR
PHOSPHORUS FERT NUTR
POTASSIUM FERT NUTR
EROSION CONTR BLANKET
SEE GRADING DETAIL
EX ROW



PROPOSED GRADING AT NORTHBOUND SIDEWALK



COMB CC&G TB6.12 VWGF
SEE STANDARD 606001 FOR DETAILS NOT SHOWN

TRANSITIONS OF CURB AND GUTTER

LOCATION	FROM STATION ¹	WIDTH (IN)	TO STATION ²	WIDTH (IN)
ALONG SB	296+61.40	12	297+55.20	50
ALONG SB	304+17.90	48	304+95.30	12
ALONG NB	296+58.20	12	297+39.40	50
ALONG NB	304+21.40	48	305+30.50	12

¹ MATCH LIMIT OF EXISTING BRIDGE APPROACH SLAB
² MATCH EXISTING WIDTH BETWEEN EXISTING EDGE OF PAVEMENT AND EXISTING PARAPET

NOTES

1. TRANSITION GUTTER WIDTH FROM 0" TO 12" FROM CORRUGATED MEDIAN TO STA 293+30. THE COST OF THIS TRANSITION SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12.
2. SEE STRUCTURAL PLANS FOR DETAILS OF PROPOSED OVERLAY.
3. TRANSITION GUTTER WIDTH FROM STA. 294+50 TO STA. 295+00. INCREASE WIDTH OF GUTTER FLAG AT PAVEMENT STUB FOR SB LEFT TURN LANE (APPROXIMATE STA. 295+40), THEN TRANSITION BACK TO 12" WIDE GUTTER FLAG OVER 10 FEET. THE COST OF THE VARIABLE WIDTH GUTTER FLAG SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12.

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CONTRACT: 2018-124-BR

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PLOT DATE = 10/14/2020	DATE - 10/15/2020		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

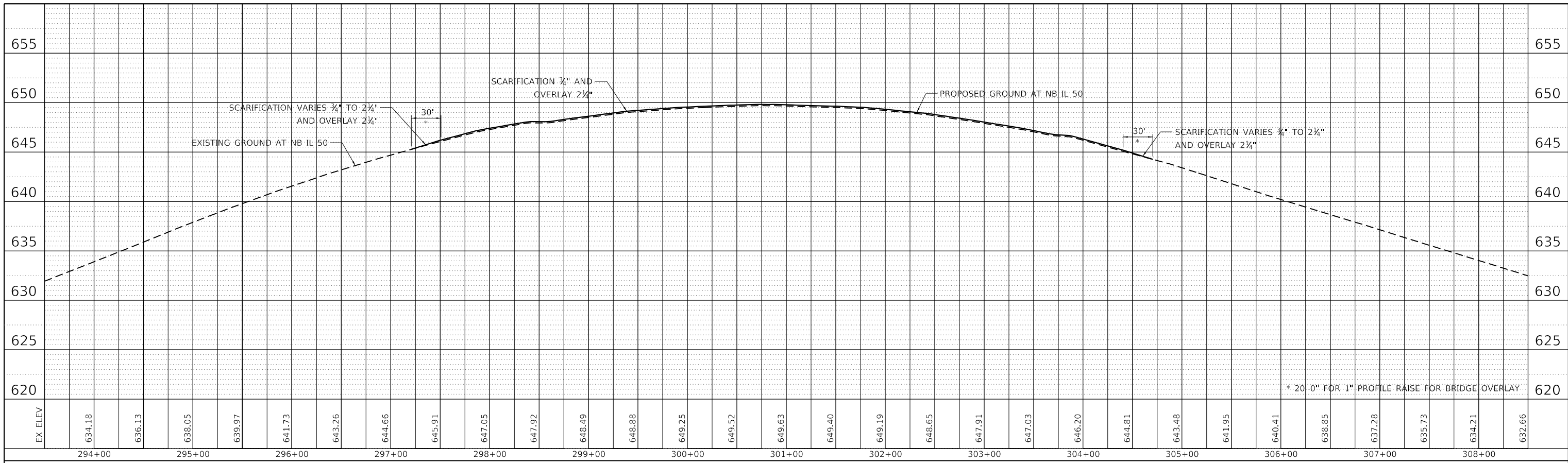
PROPOSED PLAN

SCALE:	SHEET	OF	SHEETS	STA. 293+09	TO STA. 308+91
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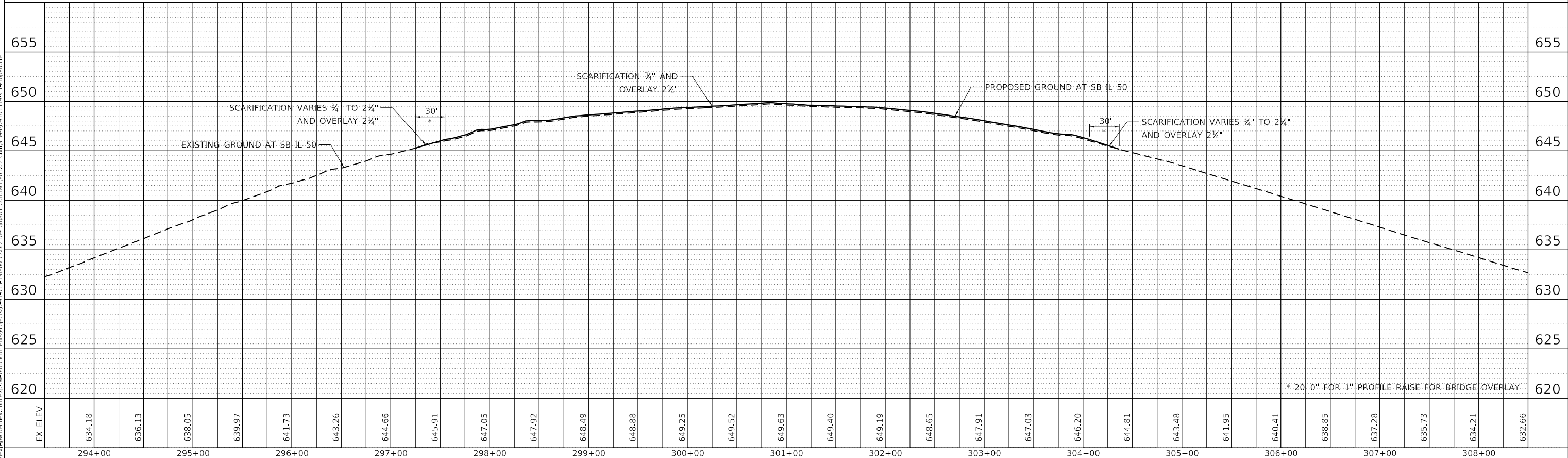
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	19
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	ALIGNED		
	RT. OF WAY CHECKED		
	CADD FILE NAME		



PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	FLIPPED		
	CHECKED		
	B.M. NOTED		
	STRUCTURE NOTATIONS CIP/D		



FILE NAME D9105519-sh1-PropProfile	USER NAME = anthony.friedman	DESIGNED - AMF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED PROFILE NB & SB IL 50 (CICERO AVENUE)		F.A.P. RTE. 350	SECTION 2018-124-BR	COUNTY	TOTAL SHEETS 95	SHEET NO. 20
PLOT SCALE = 100.0000' / in.	CHECKED - DDH	REVISED -	SCALE:		SHEET	OF	SHEETS	STA293+09	TO STA308+91	CONTRACT NO. 62H50	
PLOT DATE = 10/14/2020	DATE - 10/15/2020	REVISED -	ILLINOIS FED. AID PROJECT								

SUGGESTED SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC

PRE-STAGE

- 1. CLOSE INSIDE LANE OF BOTH NB AND SB IL 50 PER HIGHWAY STANDARD 701606.
- 2. REMOVE CURB AND GUTTER AND STABILIZED MEDIAN SURFACE AS SHOWN ON THE PLANS, AND COMPLETE CONSTRUCTION OF TEMPORARY PAVEMENT CROSSOVERS TO BE USED FOR STAGES 1A, 1B, 2A, AND 2B.
- 3. REMOVE EXISTING GUARDRAIL AND INSTALL TEMPORARY GUARDRAIL AND TRAFFIC BARRIER TERMINALS AT THE SOUTH END OF THE BRIDGES AS SHOWN ON PLANS, AND PLACE TEMPORARY CONCRETE BARRIER AT TOP OF SLOPEWALLS BETWEEN BRIDGE ABUTMENTS.
- 4. BEGIN WORK ON BRIDGE SUBSTRUCTURES.

STAGE 1A

- 1. CLOSE OUTSIDE LANE OF NB IL 50 AND INSIDE LANE OF SB IL 50.
- 2. UTILIZE A TEMPORARY PAVEMENT CROSSOVER TO DIRECT ONE LANE OF NB IL 50 ONTO THE INSIDE LANE OF SB IL 50.
- 3. SHIFT ONE LANE OF NB IL 50 ONTO THE OUTSIDE EDGE OF THE NB IL 50 BRIDGE.
- 4. COMPLETE DECK AND SUPERSTRUCTURE WORK ON INSIDE OF THE NB IL 50 BRIDGE.
- 5. CONTINUE WORK ON BRIDGE SUBSTRUCTURES.

STAGE 1B

- 1. MAINTAIN CLOSURE OF OUTSIDE LANE OF NB IL 50 AND INSIDE LANE OF SB IL 50.
- 2. MAINTAIN A TEMPORARY PAVEMENT CROSSOVER TO DIRECT ONE LANE OF NB IL 50 ONTO THE INSIDE LANE OF SB IL 50
- 3. SHIFT ONE LANE OF NB IL 50 ONTO THE INSIDE EDGE OF THE NB IL 50 BRIDGE.
- 4. COMPLETE DECK AND SUPERSTRUCTURE WORK ON OUTSIDE OF THE NB IL 50 BRIDGE.
- 5. CONTINUE WORK ON BRIDGE SUBSTRUCTURES.

STAGE 1C

- 1. CLOSE INSIDE LANE OF BOTH NB AND SB IL 50.
- 2. SHIFT 2 LANES OF NB IL 50 TRAFFIC ONTO OUTER TWO LANES OF NB IL 50.
- 3. REMOVE NB AND SB TEMPORARY GUARDRAIL AND TRAFFIC BARRIER TERMINALS AT THE SOUTH END OF BRIDGES.
- 4. INSTALL NB AND SB TEMPORARY GUARDRAIL AND TRAFFIC BARRIER TERMINALS AT THE NORTH END OF BRIDGES.

STAGE 2A

- 1. CLOSE OUTSIDE LANE OF SB IL 50 BY CONVERTING IT TO A RIGHT-TURN ONLY LANE NORTH OF THE 67TH STREET INTERSECTION. CLOSE INSIDE LANE OF NB IL 50.
- 2. UTILIZE A TEMPORARY PAVEMENT CROSSOVER TO DIRECT ONE LANE OF SB IL 50 ONTO THE INSIDE LANE OF NB IL 50.
- 3. SHIFT ONE LANE OF SB IL 50 ONTO THE OUTSIDE EDGE OF THE SB IL 50 BRIDGE.
- 4. COMPLETE DECK AND SUPERSTRUCTURE WORK ON INSIDE OF THE SB IL 50 BRIDGE.
- 5. CONTINUE WORK ON BRIDGE SUBSTRUCTURES.
- 6. REMOVE AND REPLACE OUTSIDE SIDEWALK AND CURB AND GUTTER AS SHOWN ON PLANS.

STAGE 2B

- 1. MAINTAIN CLOSURE OF OUTSIDE LANE OF SB IL 50 BY CONVERTING IT TO A RIGHT-TURN ONLY LANE NORTH OF THE 67TH STREET INTERSECTION. CLOSE INSIDE LANE OF NB IL 50.
- 2. MAINTAIN TEMPORARY PAVEMENT CROSSOVER TO DIRECT ONE LANE OF SB IL 50 ONTO THE INSIDE LANE OF NB IL 50.
- 3. SHIFT ONE LANE OF SB IL 50 ONTO THE INSIDE EDGE OF THE SB IL 50 BRIDGE.
- 4. COMPLETE DECK AND SUPERSTRUCTURE WORK ON OUTSIDE OF THE SB IL 50 BRIDGE.
- 5. CONTINUE WORK ON BRIDGE SUBSTRUCTURES.
- 6. REMOVE AND REPLACE OUTSIDE SIDEWALK AND CURB AND GUTTER AS SHOWN ON PLANS.

STAGE 3

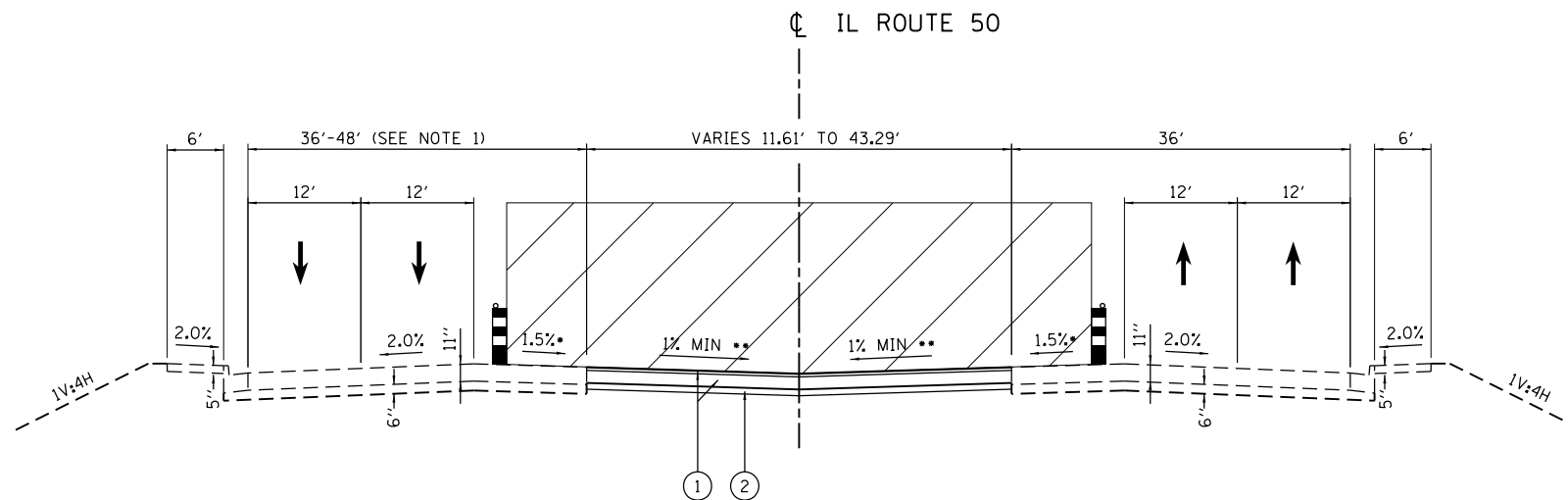
- 1. CLOSE INSIDE LANE OF BOTH NB AND SB IL 50 PER HIGHWAY STANDARD 701606.
- 2. REMOVE TEMPORARY GUARDRAIL AND TRAFFIC BARRIER TERMINALS AT THE NORTH END OF BRIDGES.
- 3. COMPLETE PROPOSED WORK WITHING THE MEDIAN INCLUDING:
 - A. DRAINAGE WORK
 - B. CURB AND GUTTER
 - C. STABILIZED MEDIAN SURFACE
 - D. GUARDRAIL

STAGING AND TRAFFIC CONTROL GENERAL NOTES

- 1. THE TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS AS SHOWN IN THE INDEX OF SHEETS AND THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL) UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS, OR SPECIAL PROVISIONS.
- 2. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR MAINTENANCE OF TRAFFIC.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABOR, SIGNS, AND TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.
- 4. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, KALPANA KANNAN-HOSADURGA, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING THE WORK.
- 5. IN ADVANCE OF ALL STAGE CHANGES ON IL 50, THE CONTRACTOR SHALL PLACE ONE (1) PORTABLE CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT ALONG IL 50 AS DIRECTED AT A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING STAGE CHANGE ON IL 50. THE MESSAGE SHALL BE APPROVED BY THE ENGINEER.
- 6. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
- 7. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN.
- 8. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER. ANY CHANGES TO THE MAINTENANCE OF TRAFFIC SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES.
- 9. 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 PROMPLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC DEVICES.
- 10. THE ENGINEER SHALL BE INFORMED A MINIMUM OF 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.
- 11. ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER SEVEN (7) DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. ALL MARKINGS THAT REQUIRE REPLACEMENT PRIOR TO SEVEN (7) DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- 12. WHEN THEY ARE NO LONGER NECESSARY, ALL TRAFFIC CONTROL DEVICES SHALL IMMEDIATELY BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3"x6" DELINEATOR INSTALLED. THE COST OF THE DELINEATOR SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
- 13. TEMPORARY CONCRETE BARRIERS AND TEMPORARY IMPACT ATTENUATORS SHALL BE PLACED AS SHOWN IN THE PLANS. FURNISHING, INSTALLING, AND RELOCATING TEMPORARY CONCRETE BARRIERS AND TEMPORARY IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
- 14. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, REMOVED, DAMAGED, OR OTHERWISE AFFECTED BY CONSTRUCTION.
- 15. ACCESS TO ALL PRIVATE AND COMMERCIAL DRIVEWAYS AND ENTRANCES ARE TO BE MAINTAINED DURING CONSTRUCTION.
- 16. WHERE RAISED REFLECTIVE PAVEMENT MARKERS CONFLICT WITH TRAFFIC LANES DURING STAGING, THE REFLECTIVE ELEMENTS SHALL BE REMOVED FROM THE CASTINGS (RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL) PRIOR TO SHIFTING TRAFFIC INTO STAGE.
- 17. AT LEAST TWO (2) WEEKS PRIOR TO STARTING STAGE 2A, THE CONTRACTOR SHALL NOTIFY PACE ENGINEER, RICK WILLMAN AT (847)228-3584.

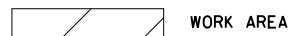
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PLOT SCALE = 100.0000' / in.		CHECKED - DDH	REVISIED -	REVISIED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 62H50	
PLOT DATE = 10/14/2020		DATE - 10/15/2020	REVISIED -	REVISIED -		ILLINOIS FED. AID PROJECT							
GARZA KARHOFF ENGINEERING, LLC													

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CONTRACTOR: Garza Karhoff Engineering, LLC



PROPOSED LEGEND

- ① TEMPORARY PAVEMENT
- ② SUBBASE GRANULAR MATERIAL, TYPE B, 4"



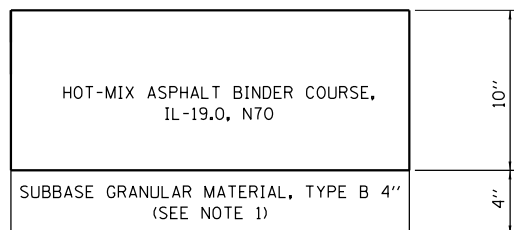
**PRE-STAGE TYPICAL SECTION
IL ROUTE 50 (CICERO AVENUE)**

STA. 293+29.10 TO STA. 297+39.43
STA. 304+35.69 TO STA. 308+65.00

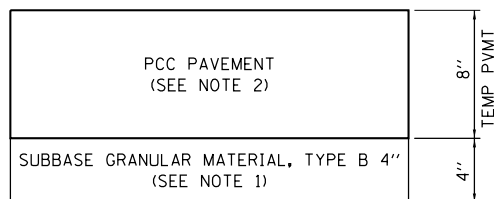
- SEE NOTE 2
- SEE NOTE 3

STAGING TYPICAL SECTION NOTES

1. FROM STA 292+85 TO STA 295+00, THE WIDTH VARIES FROM 36 FT TO 48 FT.
2. FROM STA 292+85 TO STA 295+00, THE CROSS SLOPE TRANSITIONS FROM 1.5% SLOPING AWAY FROM THE MEDIAN TO 1.5% TOWARD THE MEDIAN.
3. SEE TEMPORARY PAVEMENT GRADING PLANS.
4. SEE CONSTRUCTION STAGING IN STRUCTURAL PLANS FOR STAGING TYPICAL SECTIONS ON BRIDGES.



FLEXIBLE (HMA) DESIGN



RIGID (PCC) DESIGN

TEMPORARY PAVEMENT

TEMPORARY PAVEMENT NOTES

1. COURSE AGGREGATE GRADATION CA-6 SHALL BE USED FOR SUBBASE GRANULAR MATERIAL, TYPE B BENEATH TEMPORARY PAVEMENT.
2. PC CONCRETE TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ARTICLE 1020 OF THE STANDARD SPECIFICATIONS. TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS.

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BUILDINGS-EARTH & ENVIRONMENT-ENERGY
INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

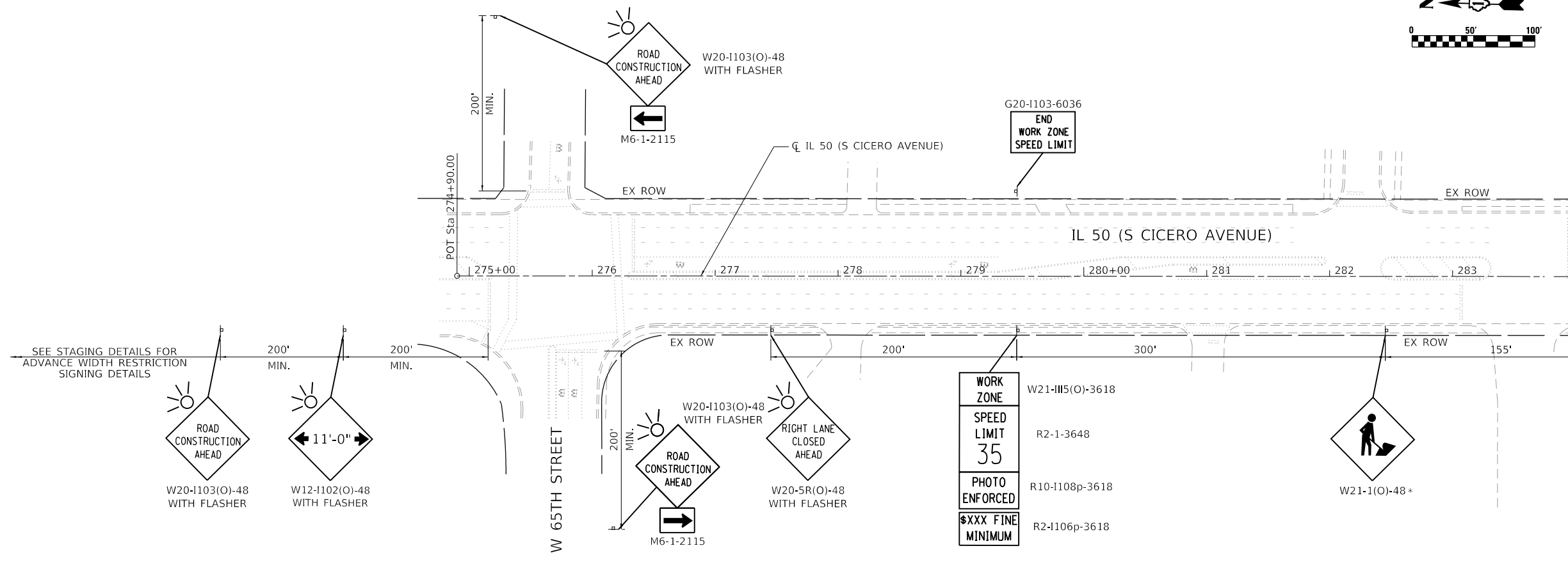
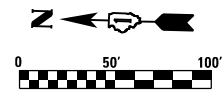
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

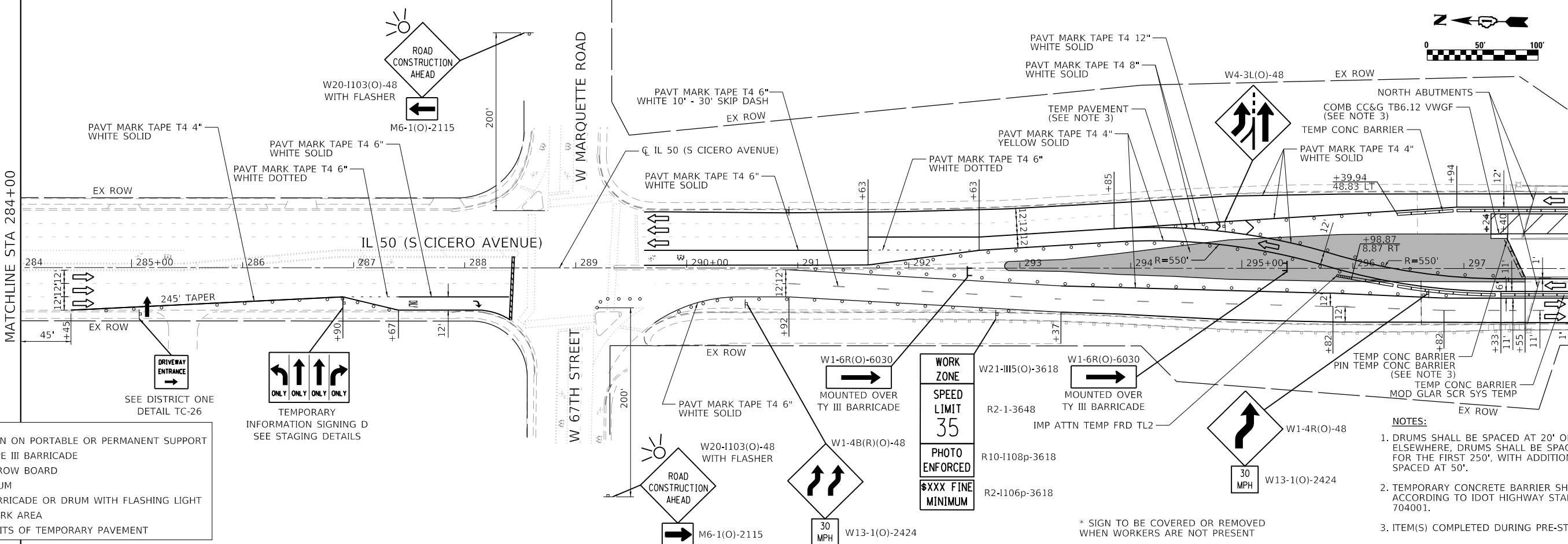
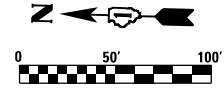
**STAGING AND TRAFFIC CONTROL
TYPICAL SECTIONS AND TEMPORARY PAVEMENT DESIGN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	22
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA 284+00



MATCHLINE STA 298+00

LEGEND

- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⊥ TYPE III BARRICADE
- ARROW BOARD
- DRUM
- ⊕ BARRICADE OR DRUM WITH FLASHING LIGHT
- ▨ WORK AREA
- ▨ LIMITS OF TEMPORARY PAVEMENT

- NOTES:**
1. DRUMS SHALL BE SPACED AT 20' ON TAPERS. ELSEWHERE, DRUMS SHALL BE SPACED AT 25' FOR THE FIRST 250', WITH ADDITIONAL DRUMS SPACED AT 50'.
 2. TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO IDOT HIGHWAY STANDARD 704001.
 3. ITEM(S) COMPLETED DURING PRE-STAGE.

* SIGN TO BE COVERED OR REMOVED WHEN WORKERS ARE NOT PRESENT

MODEL: Default FILE NAME: D:\Projects\19105519-sht-MOT Stage 1A-1\19105519-sht-MOT Stage 1A-1.dwg USER: anthony.friedman DATE: 10/14/2020

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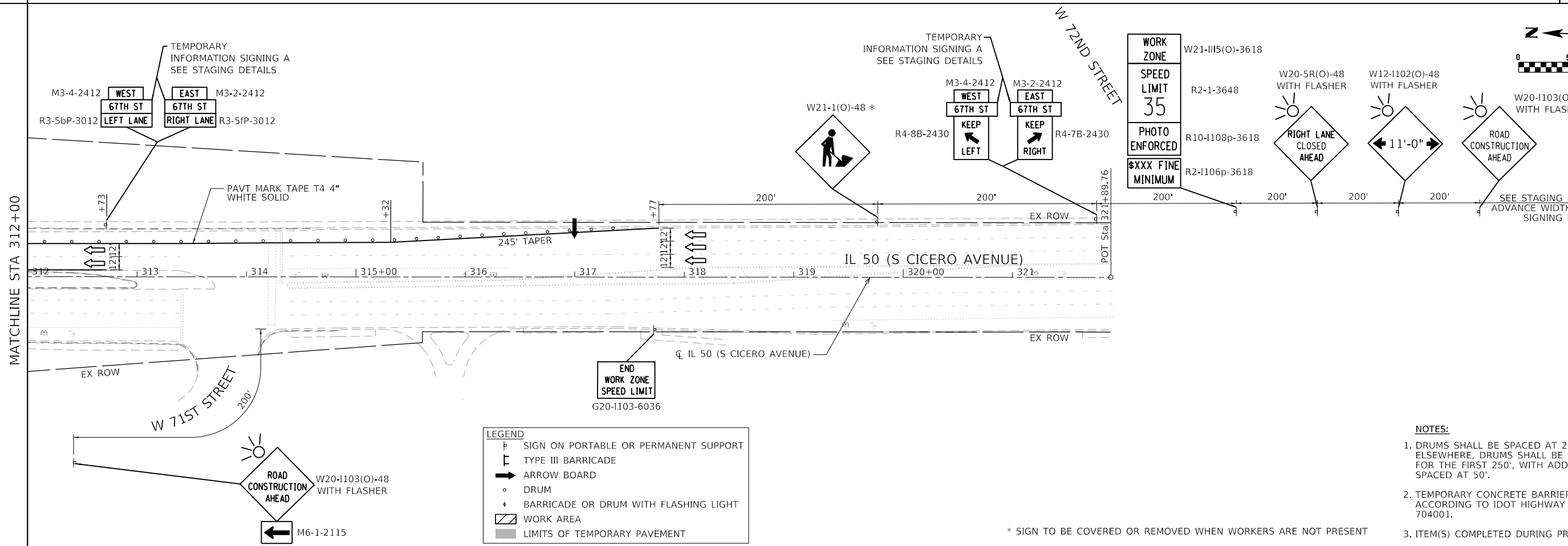
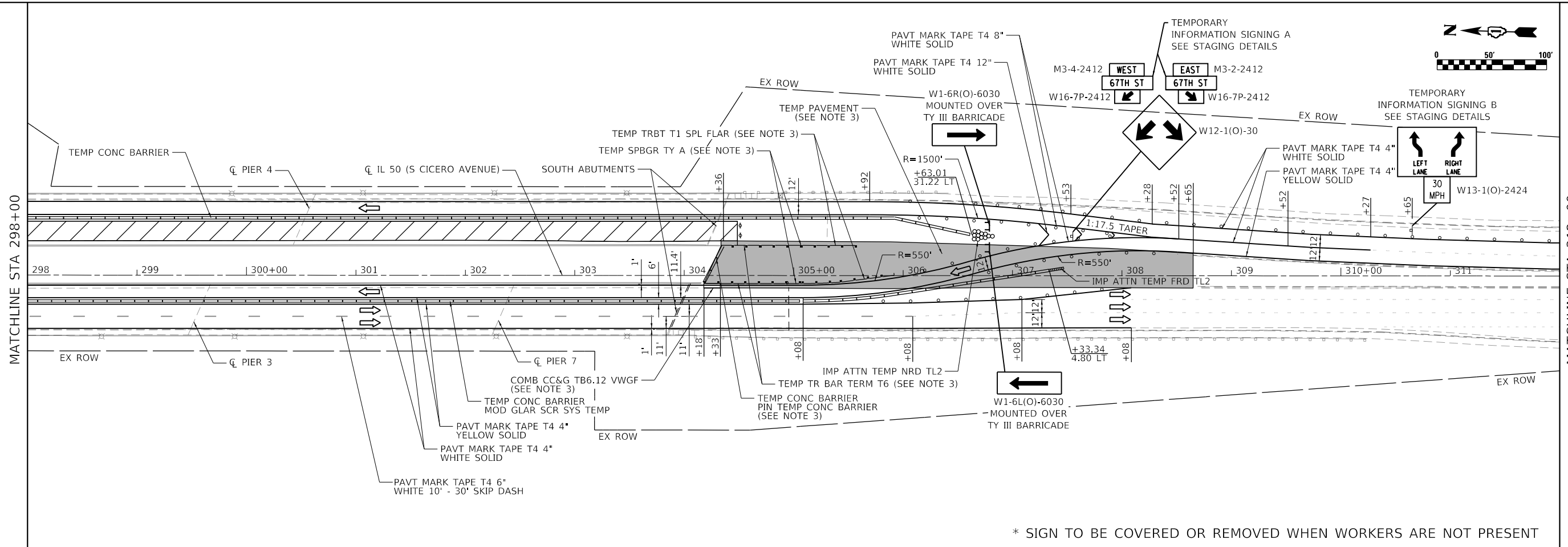
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

STAGING AND TRAFFIC CONTROL
STAGE 1A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	23
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. 275+00 TO STA. 298+00

MODEL: Default
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LEGEND	
	SIGN ON PORTABLE OR PERMANENT SUPPORT
	TYPE III BARRICADE
	ARROW BOARD
	DRUM
	BARRICADE OR DRUM WITH FLASHING LIGHT
	WORK AREA
	LIMITS OF TEMPORARY PAVEMENT

- NOTES:**
- DRUMS SHALL BE SPACED AT 20' ON TAPERS. ELSEWHERE, DRUMS SHALL BE SPACED AT 25' FOR THE FIRST 250', WITH ADDITIONAL DRUMS SPACED AT 50'.
 - TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO IDOT HIGHWAY STANDARD 704001.
 - ITEM(S) COMPLETED DURING PRE-STAGE.

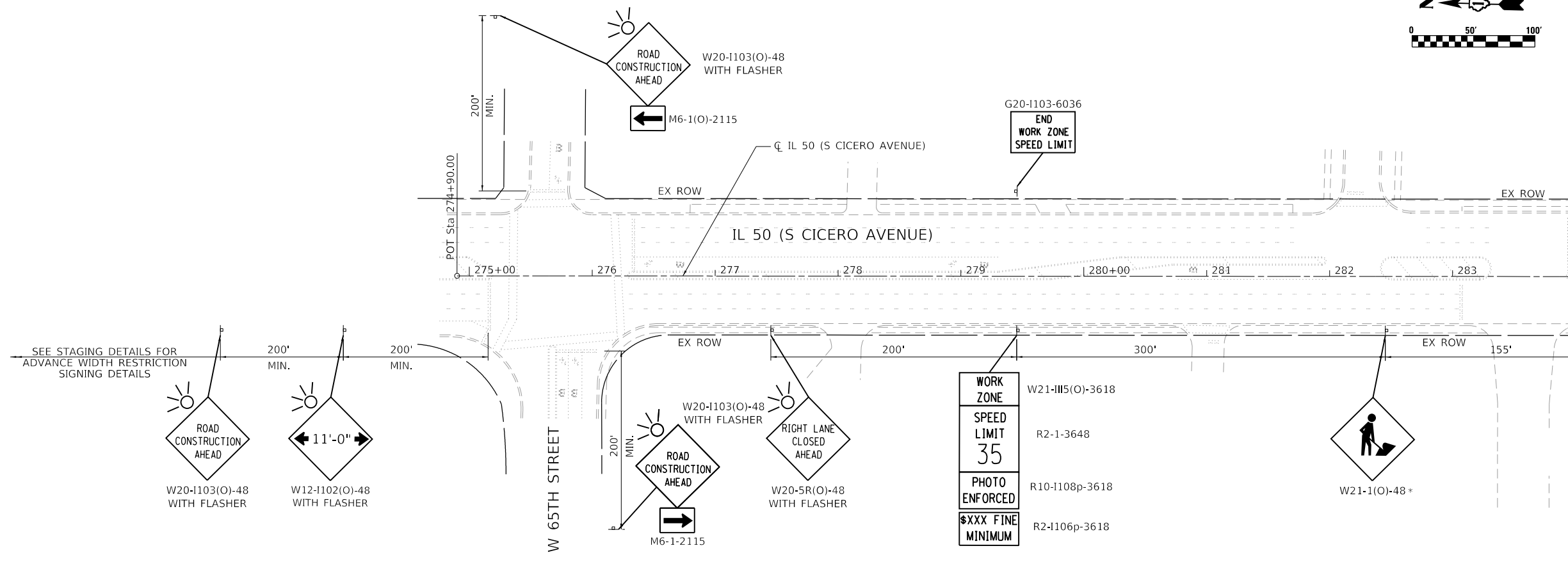
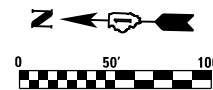
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PLOT DATE =	10/14/2020
CHECKED -	DDH
DATE -	10/15/2020
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

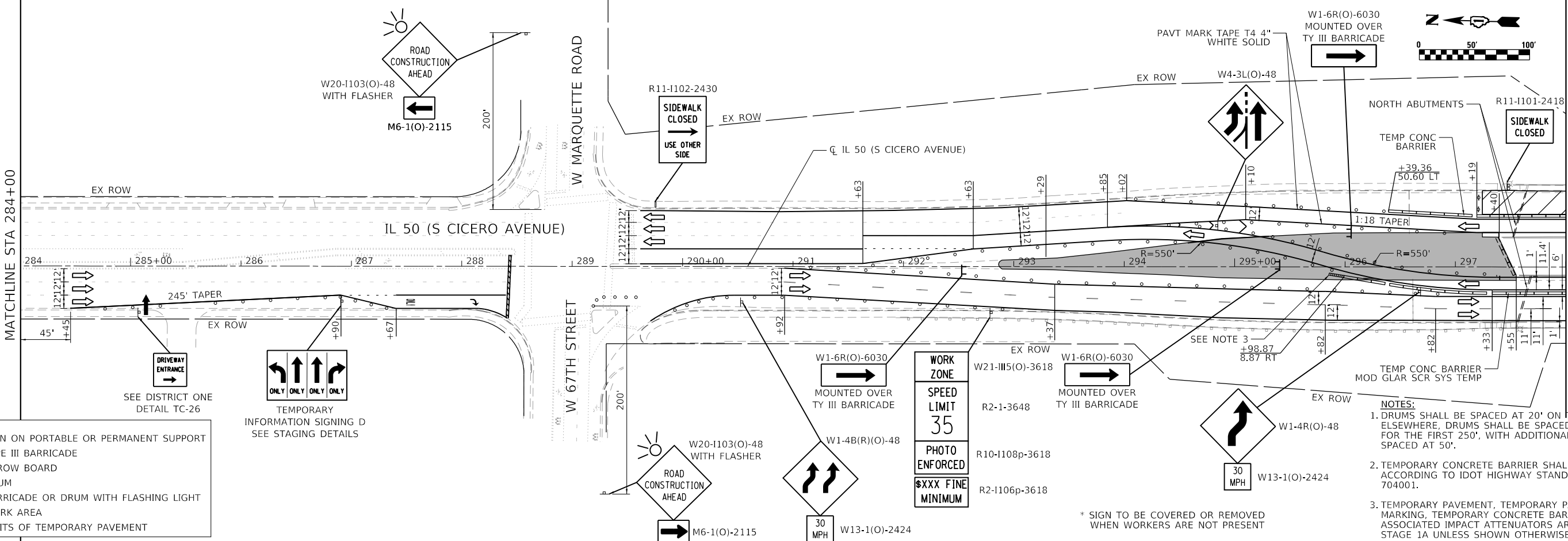
STAGING AND TRAFFIC CONTROL
STAGE 1A

SCALE: SHEET OF SHEETS STA. 298+00 TO STA. 321+89.76

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	24
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA 284+00



MATCHLINE STA 298+00

LEGEND

- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADE
- ARROW BOARD
- DRUM
- BARRICADE OR DRUM WITH FLASHING LIGHT
- WORK AREA
- LIMITS OF TEMPORARY PAVEMENT

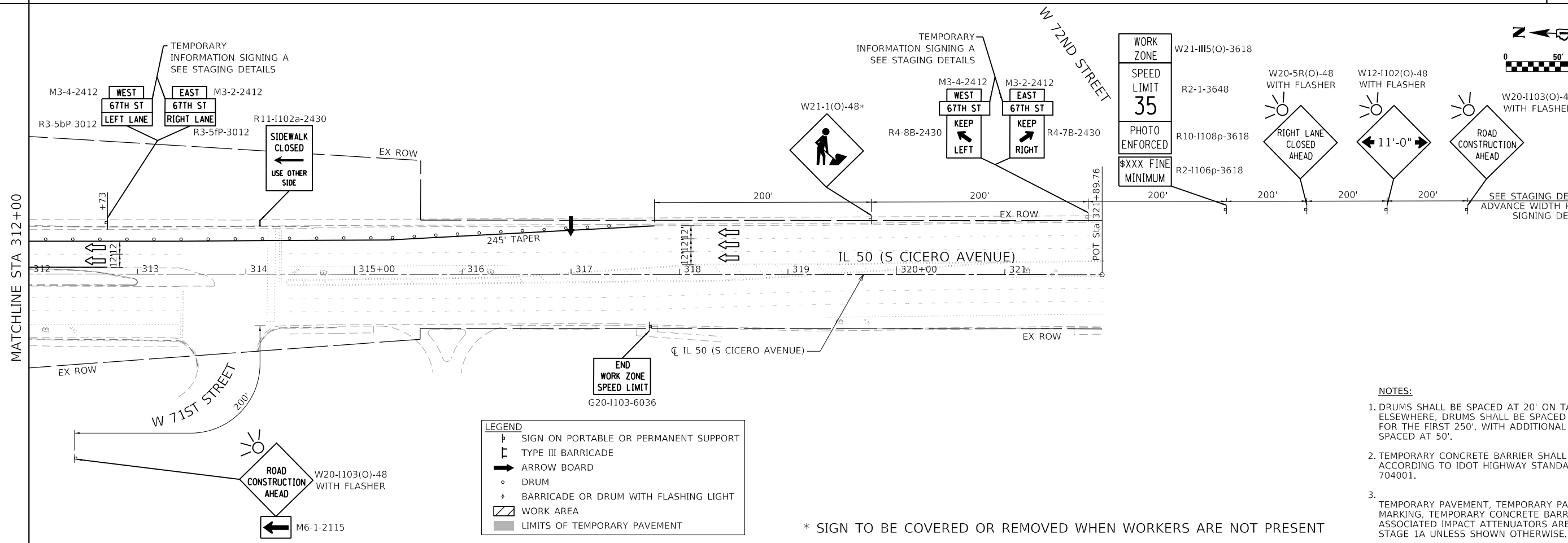
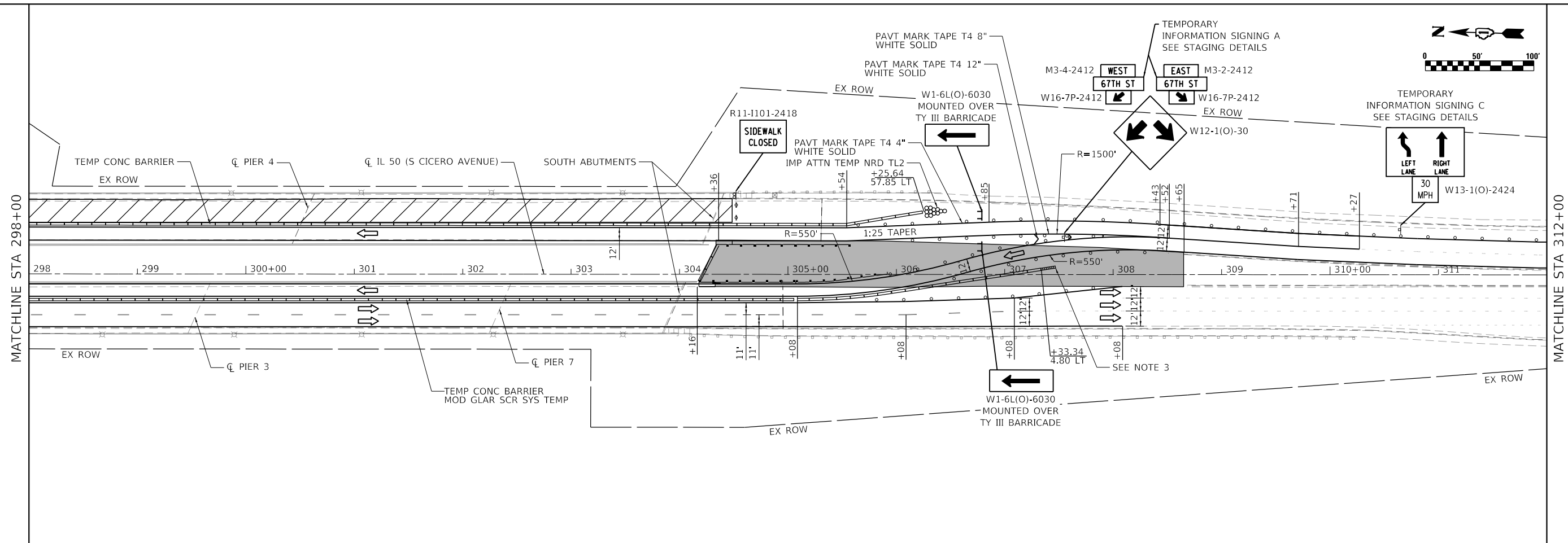
- NOTES:**
1. DRUMS SHALL BE SPACED AT 20' ON TAPERS. ELSEWHERE, DRUMS SHALL BE SPACED AT 25' FOR THE FIRST 250', WITH ADDITIONAL DRUMS SPACED AT 50'.
 2. TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO IDOT HIGHWAY STANDARD 704001.
 3. TEMPORARY PAVEMENT, TEMPORARY PAVEMENT MARKING, TEMPORARY CONCRETE BARRIER, AND ASSOCIATED IMPACT ATTENUATORS ARE SAME AS STAGE 1A UNLESS SHOWN OTHERWISE.

* SIGN TO BE COVERED OR REMOVED WHEN WORKERS ARE NOT PRESENT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				STAGING AND TRAFFIC CONTROL STAGE 1B			
IL ROUTE 50 (CICERO AVENUE) OVER BRC RAILROAD				SCALE: SHEET OF SHEETS STA. 275+00 TO STA. 298+00			
F.A.P. RTE. 350	SECTION 2018-124-BR	COUNTY COOK	TOTAL SHEETS 95	SHEET NO. 25	CONTRACT NO. 62H50		ILLINOIS FED. AID PROJECT

MODEL: Default
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 PROJECT: D:\105519-sht-MOT Stage 1B-1
 USER: anthony.friedman
 DATE: 10/14/2020
 DESIGNED: AMF
 DRAWN: AMF
 CHECKED: DDH
 DATE: 10/15/2020

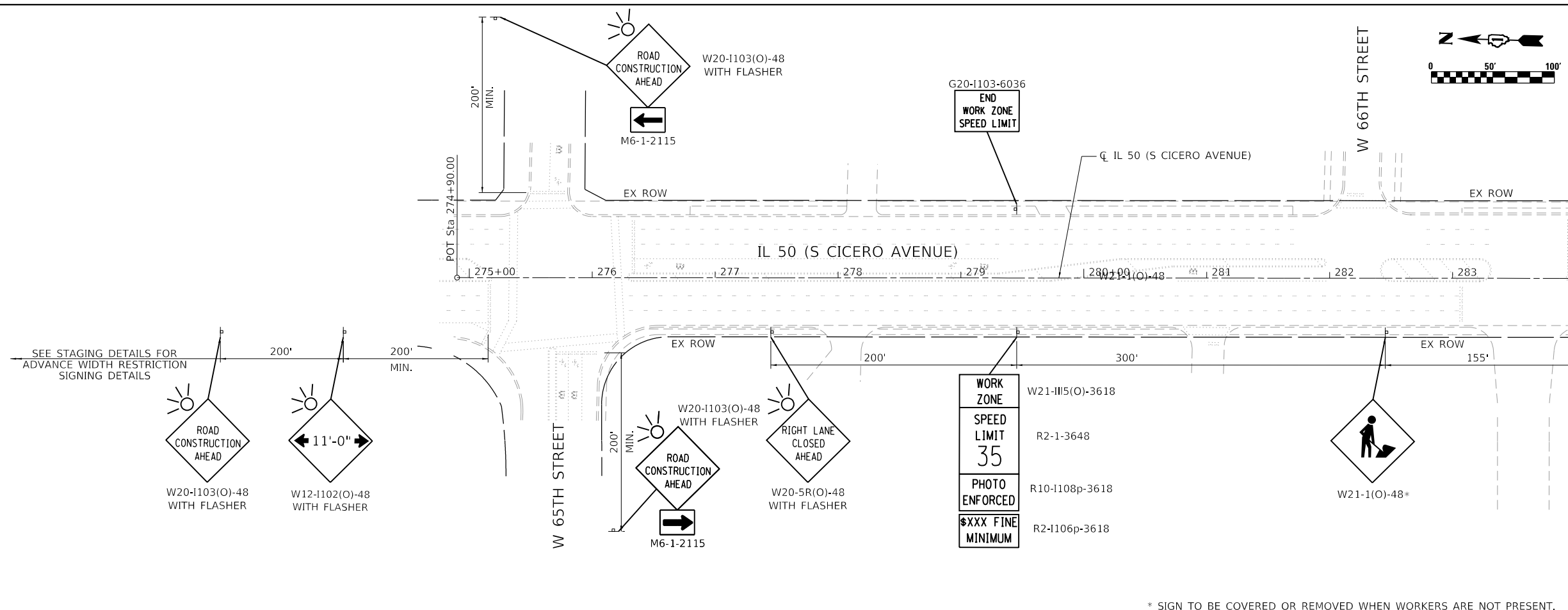
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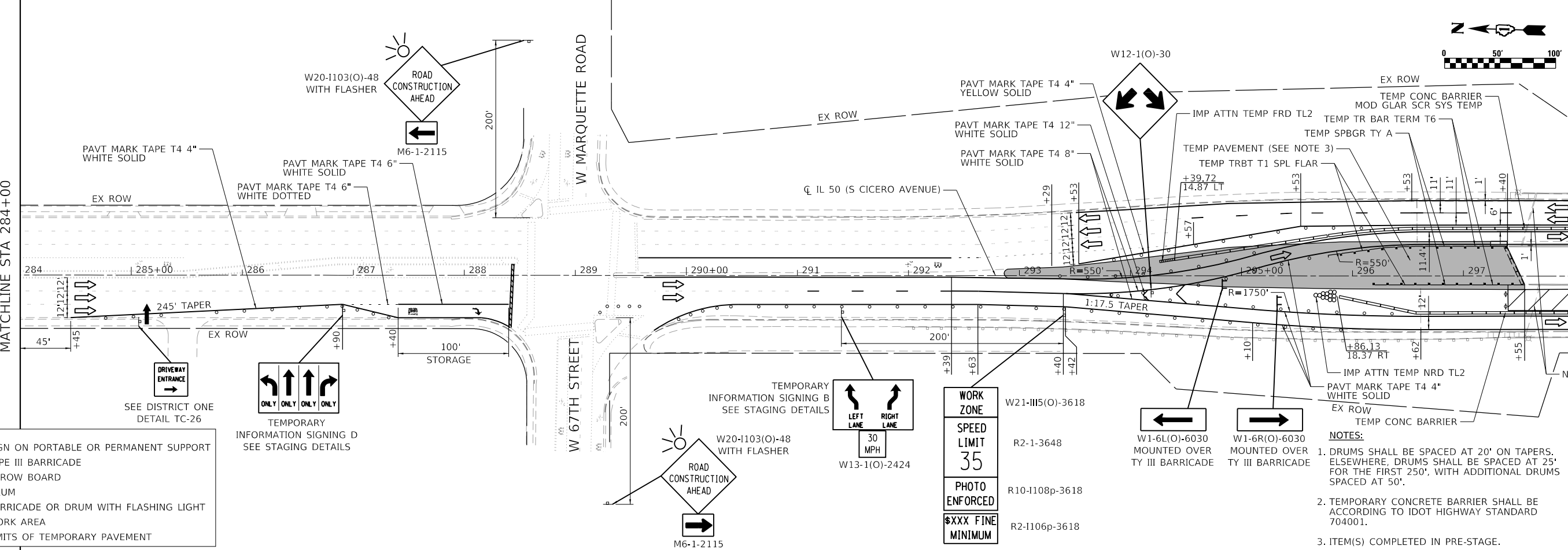
- NOTES:**
- DRUMS SHALL BE SPACED AT 20' ON TAPERS. ELSEWHERE, DRUMS SHALL BE SPACED AT 25' FOR THE FIRST 250', WITH ADDITIONAL DRUMS SPACED AT 50'.
 - TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO IDOT HIGHWAY STANDARD 704001.
 - TEMPORARY PAVEMENT, TEMPORARY PAVEMENT MARKING, TEMPORARY CONCRETE BARRIER, AND ASSOCIATED IMPACT ATTENUATORS ARE SAME AS STAGE 1A UNLESS SHOWN OTHERWISE.

* SIGN TO BE COVERED OR REMOVED WHEN WORKERS ARE NOT PRESENT

	FILE NAME =	USER NAME = anthony.friedman	DESIGNED - AMF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL ROUTE 50 (CICERO AVENUE) OVER BRC RAILROAD	STAGING AND TRAFFIC CONTROL STAGE 1B		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D9105519-shr-mot Stage 1B-2	PLOT SCALE = 100,0000' / in.	CHECKED - DDH	REVISED -				350	2018-124-BR	COOK	95	26
	PLOT DATE = 10/14/2020	DATE - 10/15/2020	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 298+00	TO STA. 321+89.76	CONTRACT NO. 62H50	
											ILLINOIS	FED. AID PROJECT



* SIGN TO BE COVERED OR REMOVED WHEN WORKERS ARE NOT PRESENT.



- NOTES:**
1. DRUMS SHALL BE SPACED AT 20' ON TAPERS. ELSEWHERE, DRUMS SHALL BE SPACED AT 25' FOR THE FIRST 250', WITH ADDITIONAL DRUMS SPACED AT 50'.
 2. TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO IDOT HIGHWAY STANDARD 704001.
 3. ITEM(S) COMPLETED IN PRE-STAGE.

LEGEND

	SIGN ON PORTABLE OR PERMANENT SUPPORT
	TYPE III BARRICADE
	ARROW BOARD
	DRUM
	BARRICADE OR DRUM WITH FLASHING LIGHT
	WORK AREA
	LIMITS OF TEMPORARY PAVEMENT

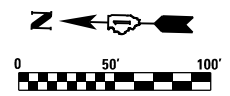
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PLOT DATE = 10/14/2020		DATE - 10/15/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

**STAGING AND TRAFFIC CONTROL
STAGE 2A**

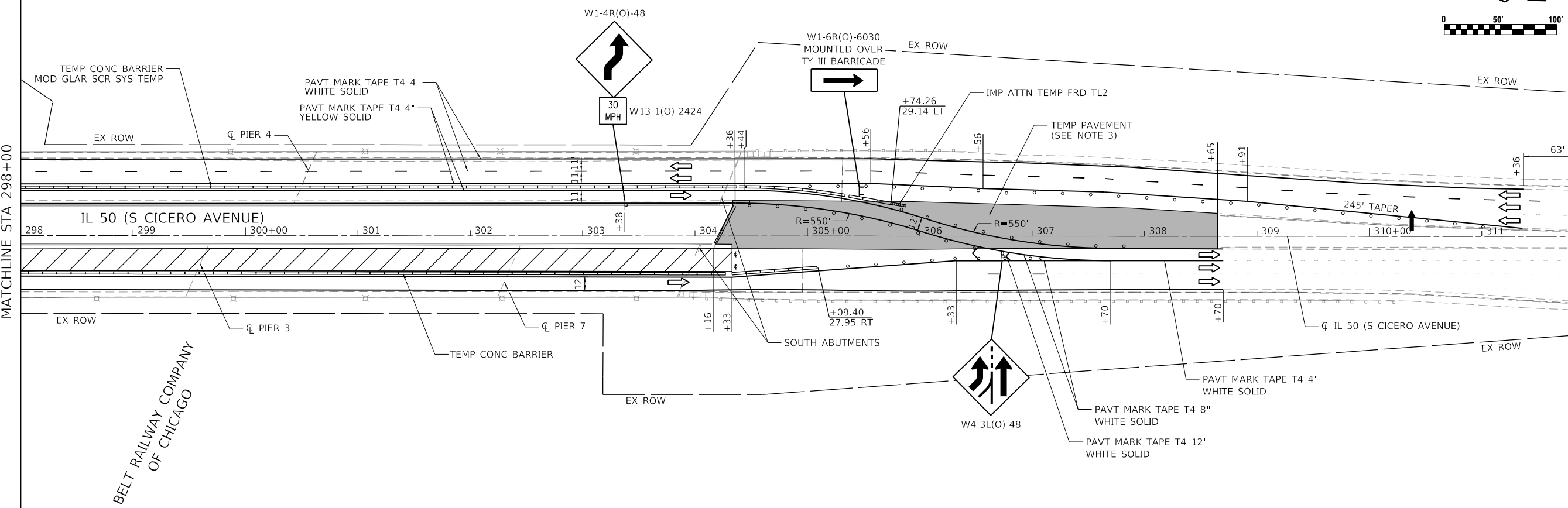
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	27
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				

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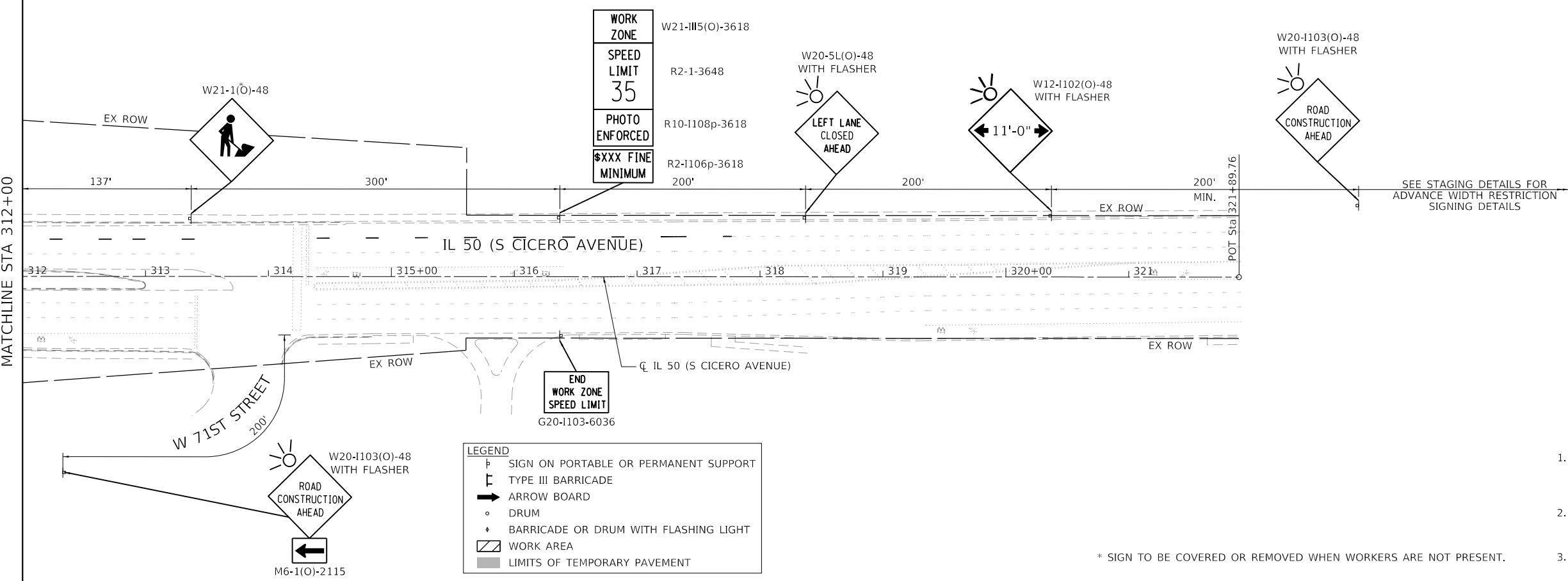
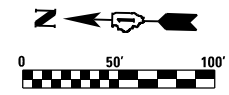


MATCHLINE STA 298+00

MATCHLINE STA 312+00



MATCHLINE STA 312+00



- NOTES:**
1. DRUMS SHALL BE SPACED AT 20' ON TAPERS. ELSEWHERE, DRUMS SHALL BE SPACED AT 25' FOR THE FIRST 250', WITH ADDITIONAL DRUMS SPACED AT 50'.
 2. TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO IDOT HIGHWAY STANDARD 704001.
 3. ITEM(S) COMPLETED IN PRE-STAGE.

* SIGN TO BE COVERED OR REMOVED WHEN WORKERS ARE NOT PRESENT.

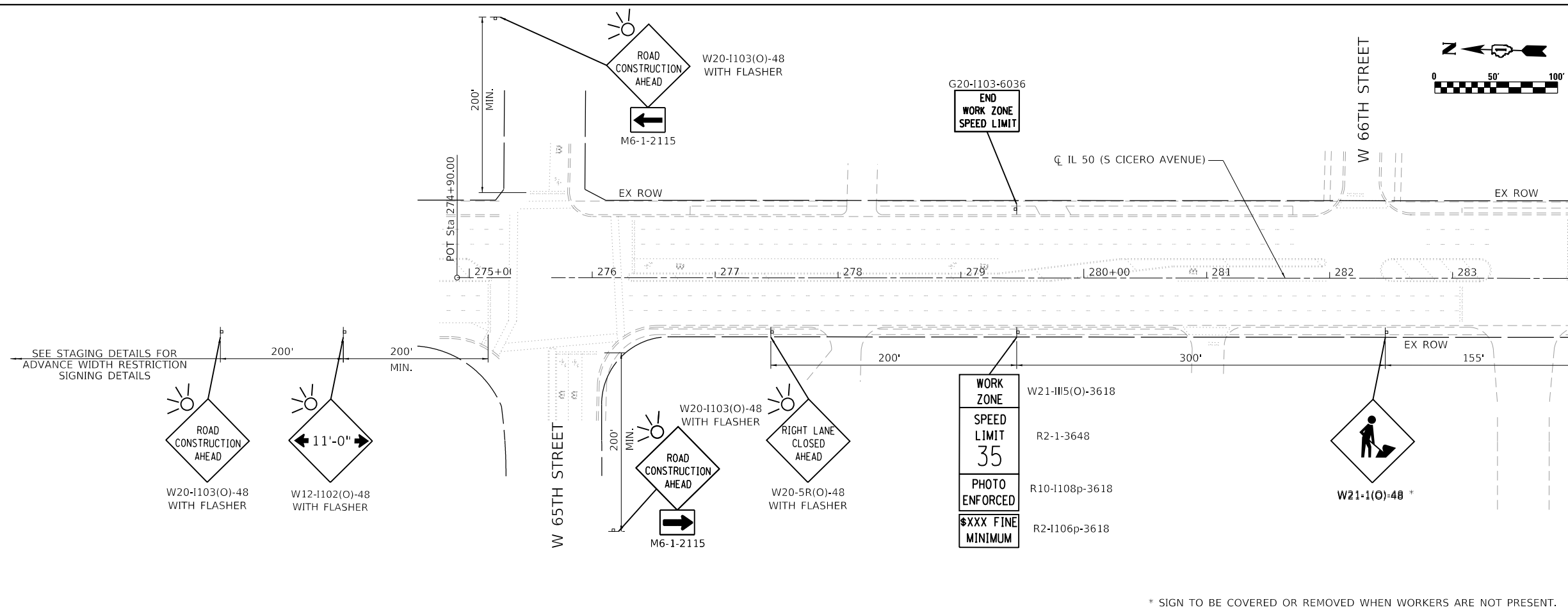
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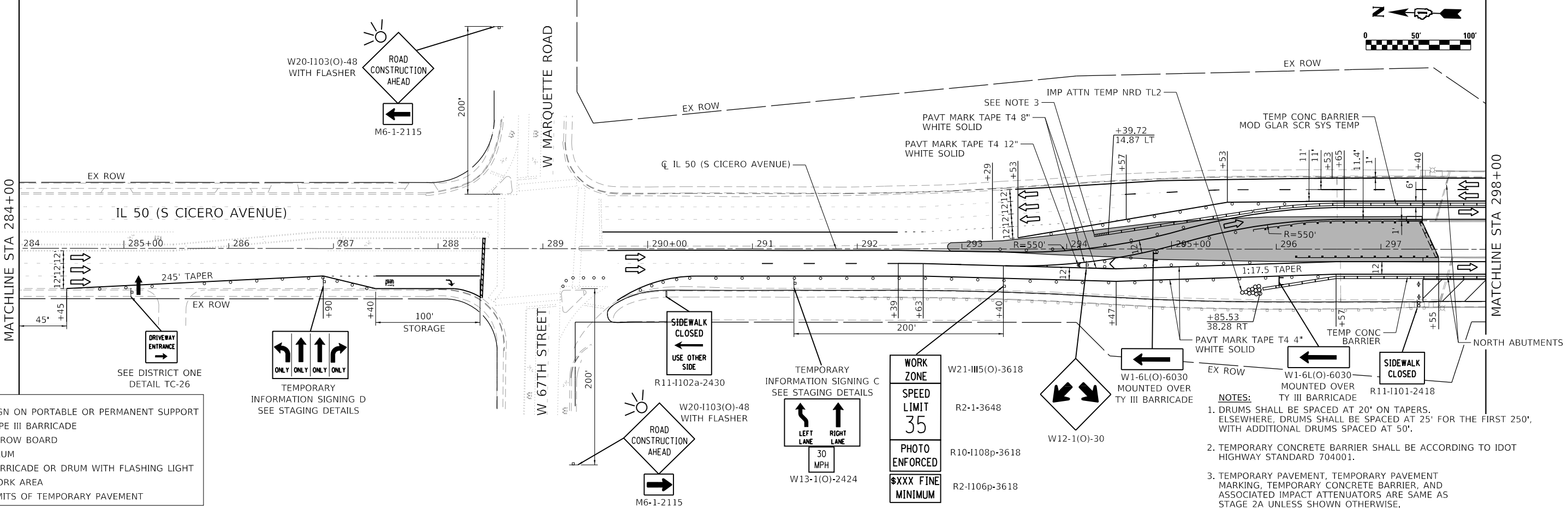
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

STAGING AND TRAFFIC CONTROL STAGE 2A				
SCALE:	SHEET	OF	SHEETS	STA. 298+00 TO STA. 321+89.76

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	28
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				



* SIGN TO BE COVERED OR REMOVED WHEN WORKERS ARE NOT PRESENT.



- NOTES:**
1. DRUMS SHALL BE SPACED AT 20' ON TAPERS. ELSEWHERE, DRUMS SHALL BE SPACED AT 25' FOR THE FIRST 250', WITH ADDITIONAL DRUMS SPACED AT 50'.
 2. TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO IDOT HIGHWAY STANDARD 704001.
 3. TEMPORARY PAVEMENT, TEMPORARY PAVEMENT MARKING, TEMPORARY CONCRETE BARRIER, AND ASSOCIATED IMPACT ATTENUATORS ARE SAME AS STAGE 2A UNLESS SHOWN OTHERWISE.

LEGEND

	SIGN ON PORTABLE OR PERMANENT SUPPORT
	TYPE III BARRICADE
	ARROW BOARD
	DRUM
	BARRICADE OR DRUM WITH FLASHING LIGHT
	WORK AREA
	LIMITS OF TEMPORARY PAVEMENT

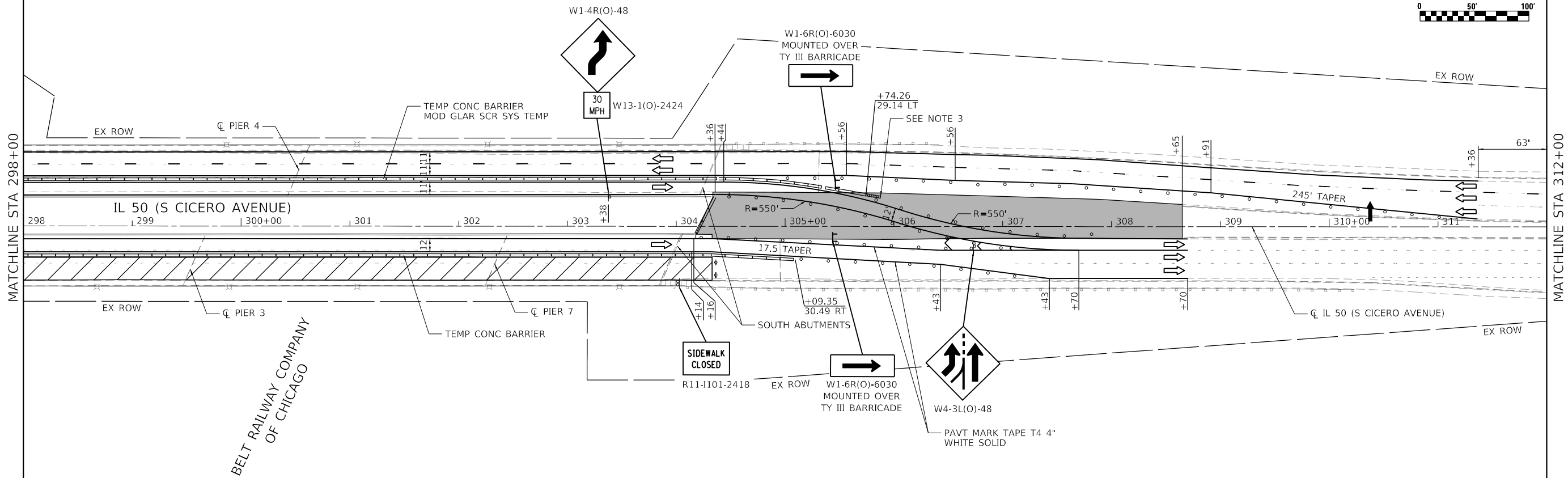
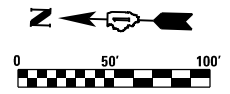
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

STAGING AND TRAFFIC CONTROL				
STAGE 2B				
SCALE:	SHEET	OF	SHEETS	STA. 275+00 TO STA. 298+00

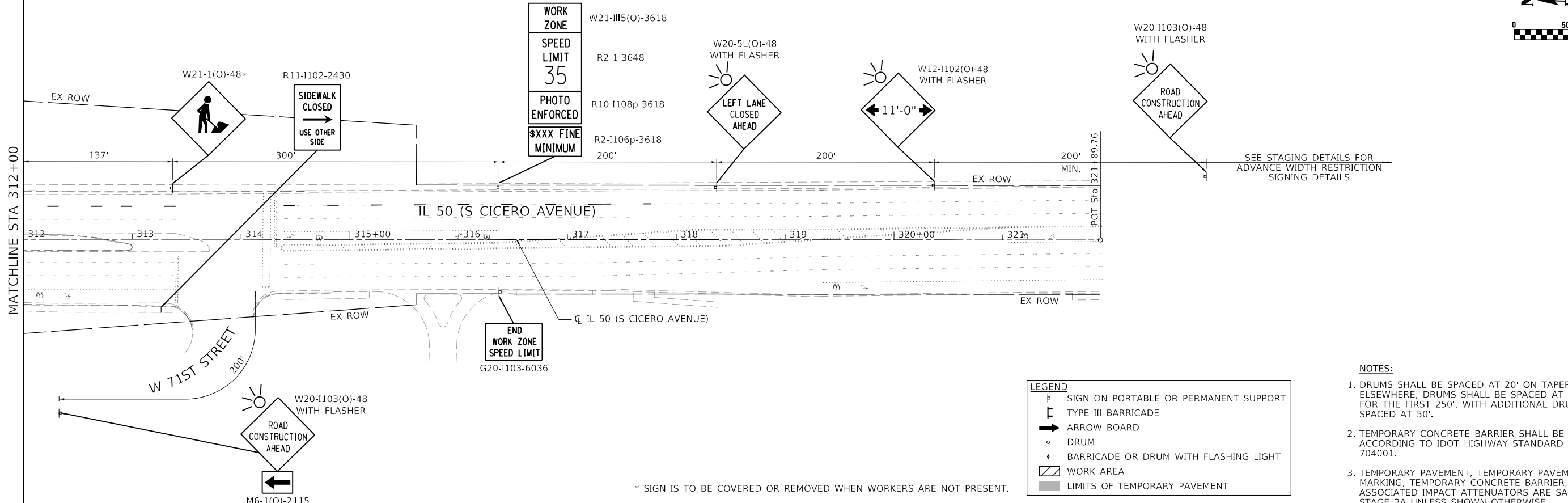
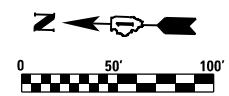
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ILLINOIS FED. AID PROJECT				
CONTRACT NO. 62H50				

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MATCHLINE STA 312+00

MATCHLINE STA 298+00



MATCHLINE STA 312+00

LEGEND

- ▬ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ▬ TYPE III BARRICADE
- ➔ ARROW BOARD
- DRUM
- ◆ BARRICADE OR DRUM WITH FLASHING LIGHT
- ▨ WORK AREA
- ▭ LIMITS OF TEMPORARY PAVEMENT

- NOTES:**
1. DRUMS SHALL BE SPACED AT 20' ON TAPERS. ELSEWHERE, DRUMS SHALL BE SPACED AT 25' FOR THE FIRST 250', WITH ADDITIONAL DRUMS SPACED AT 50'.
 2. TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO IDOT HIGHWAY STANDARD 704001.
 3. TEMPORARY PAVEMENT, TEMPORARY PAVEMENT MARKING, TEMPORARY CONCRETE BARRIER, AND ASSOCIATED IMPACT ATTENUATORS ARE SAME AS STAGE 2A UNLESS SHOWN OTHERWISE.

* SIGN IS TO BE COVERED OR REMOVED WHEN WORKERS ARE NOT PRESENT.

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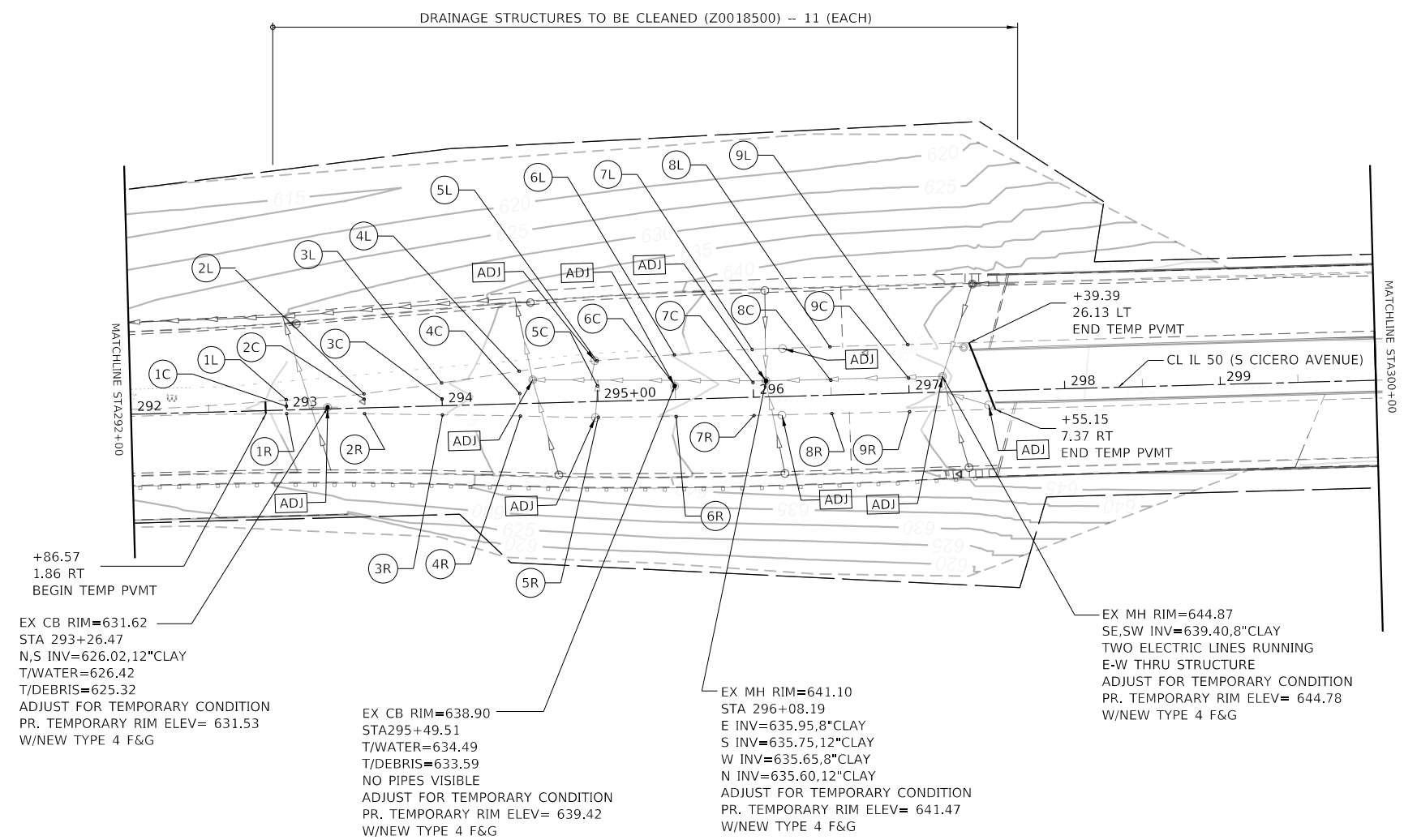
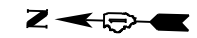
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PLOT DATE = 10/14/2020		DATE - 10/15/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

STAGING AND TRAFFIC CONTROL STAGE 2B		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		350	2018-124-BR	COOK	95	30
SCALE:		SHEET OF SHEETS		STA. 298+00 TO STA. 321+89.76	CONTRACT NO. 62H50	

ILLINOIS	FED. AID PROJECT
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EX CB RIM=631.62
 STA 293+26.47
 N,S INV=626.02,12"CLAY
 T/WATER=626.42
 T/DEBRIS=625.32
 ADJUST FOR TEMPORARY CONDITION
 PR. TEMPORARY RIM ELEV= 631.53
 W/NEW TYPE 4 F&G

EX CB RIM=638.90
 STA 295+49.51
 T/WATER=634.49
 T/DEBRIS=633.59
 NO PIPES VISIBLE
 ADJUST FOR TEMPORARY CONDITION
 PR. TEMPORARY RIM ELEV= 639.42
 W/NEW TYPE 4 F&G

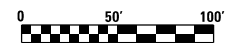
EX MH RIM=641.10
 STA 296+08.19
 E INV=635.95,8"CLAY
 S INV=635.75,12"CLAY
 W INV=635.65,8"CLAY
 N INV=635.60,12"CLAY
 ADJUST FOR TEMPORARY CONDITION
 PR. TEMPORARY RIM ELEV= 641.47
 W/NEW TYPE 4 F&G

EX MH RIM=644.87
 SE,SW INV=639.40,8"CLAY
 TWO ELECTRIC LINES RUNNING
 E-W THRU STRUCTURE
 ADJUST FOR TEMPORARY CONDITION
 PR. TEMPORARY RIM ELEV= 644.78
 W/NEW TYPE 4 F&G

NOTES

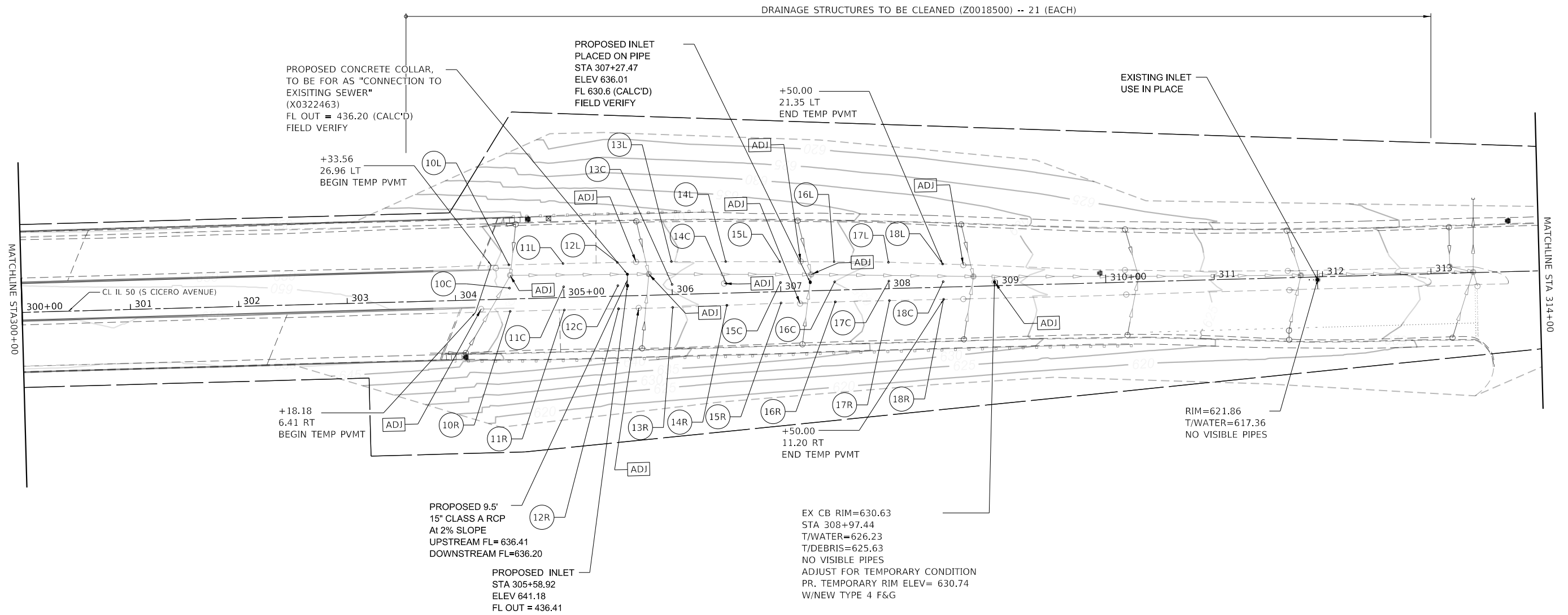
- 1) ADJUSTMENTS FOR DRAINAGE STRUCTURES ACCOUNT FOR TEMPORARY CONDITIONS.
- 2) SLOPE VARIES FROM 2.71 TO 1.

NUMBER	STATION	EX EAST EOP ELEV	OFFSET FROM CL	PR EAST SLOPE (L)	PR DITCH BOTTOM ELEV (C)	OFFSET FROM CL	PR WEST SLOPE (R)	OFFSET FROM CL	EX WEST EOP ELEV
2	293+50	632.52	9.03	1.00	632.49	5.65	2.71	3.73	632.74
3	294+00	634.44	14.67	1.58	634.28	4.38	1.50	5.91	634.38
4	294+50	636.11	20.87	1.00	635.97	6.46	2.11	8.02	636.27
5	295+00	637.82	26.20	1.00	637.66	10.04	2.69	10.12	638.20
6	295+50	639.64	28.66	1.00	639.44	8.83	2.66	11.00	639.97
7	296+00	641.41	30.70	1.00	641.20	9.47	2.32	11.75	641.69
8	296+50	643.03	31.03	1.00	642.82	9.57	1.84	11.89	643.20
9	297+00	644.55	31.09	1.00	644.33	9.54	1.46	12.01	644.65



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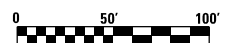
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D9105519-shr-Temp Pvmnt Grading-001.dgn	DRAWN - BU	REVISED -	350			2018-124-BR	COOK	86	31	
PLOT SCALE = 100.0000' / in.	CHECKED - JT	REVISED -	CONTRACT NO. 62H50							
PLOT DATE = 10/14/2020	DATE - 10/15/2020	REVISED -	ILLINOIS FED. AID PROJECT							
SCALE:		SHEET OF SHEETS		STA. 292+00 TO STA. 300+00						



NOTES

- 1) ADJUSTMENTS FOR DRAINAGE STRUCTURES ACCOUNT FOR TEMPORARY CONDITIONS.
- 2) SLOPE VARIES FROM 2.17 TO 1.

NUMBER	STATION	EX WEST EOP ELEV	OFFSET FROM CL	PR EAST SLOPE (L)	PR EAST ELEV C	PR DITCH BOTTOM	OFFSET FROM CL	PR WEST SLOPE (R)	OFFSET FROM CL	EX WEST EOP ELEV
10	304+50	644.67	31.52	1.00	644.46	10.08	10.08	1.23	11.35	644.72
11	305+00	643.30	31.32	1.00	643.09	9.93	9.93	1.61	11.45	643.43
12	305+50	641.68	31.02	1.00	641.47	9.65	9.65	1.75	11.72	641.84
13	306+00	640.09	30.46	1.00	639.88	9.34	9.34	1.85	11.78	640.27
14	306+50	638.60	29.05	1.00	638.40	8.91	8.91	1.74	11.23	638.75
15	307+00	637.08	27.63	1.00	636.89	8.50	8.50	1.10	10.47	637.16
16	307+50	635.47	26.18	1.00	635.29	7.68	7.68	1.54	10.81	635.57
17	308+00	633.88	24.34	1.00	633.71	6.93	6.93	1.75	10.93	634.01
18	308+50	632.34	21.35	1.00	632.18	5.08	5.08	2.17	11.20	632.53



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 DATE: 10/14/2020

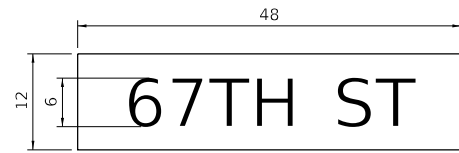
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PLOT DATE = 10/14/2020		DATE - 10/15/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

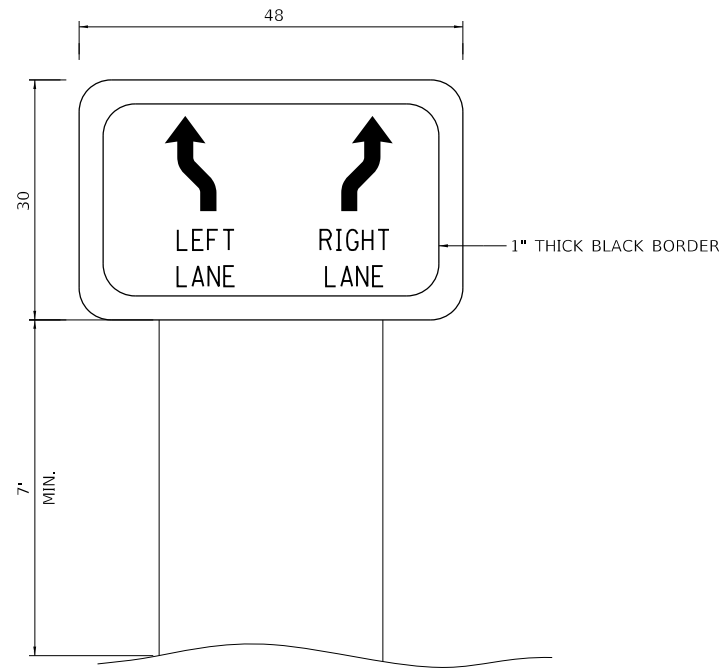
STAGING AND TRAFFIC CONTROL
TEMPORARY PAVEMENT GRADING PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

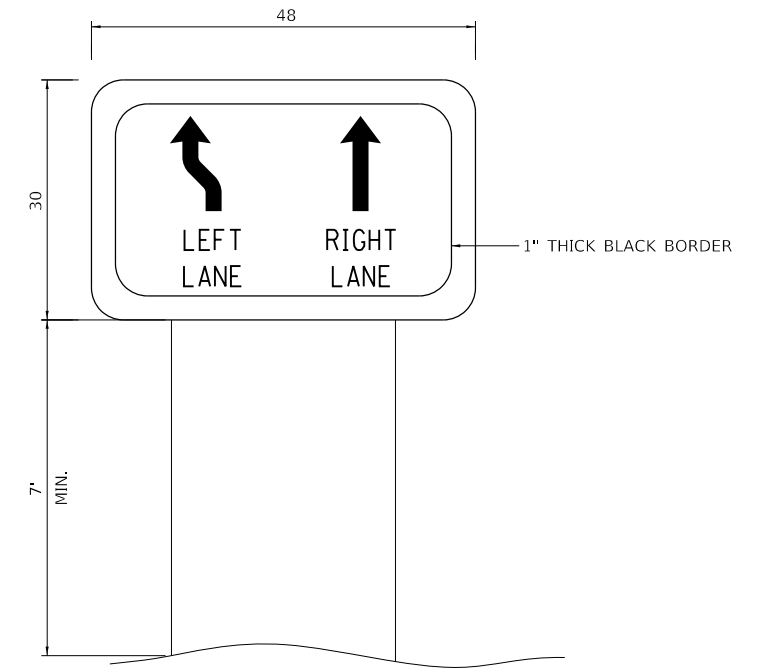
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CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				



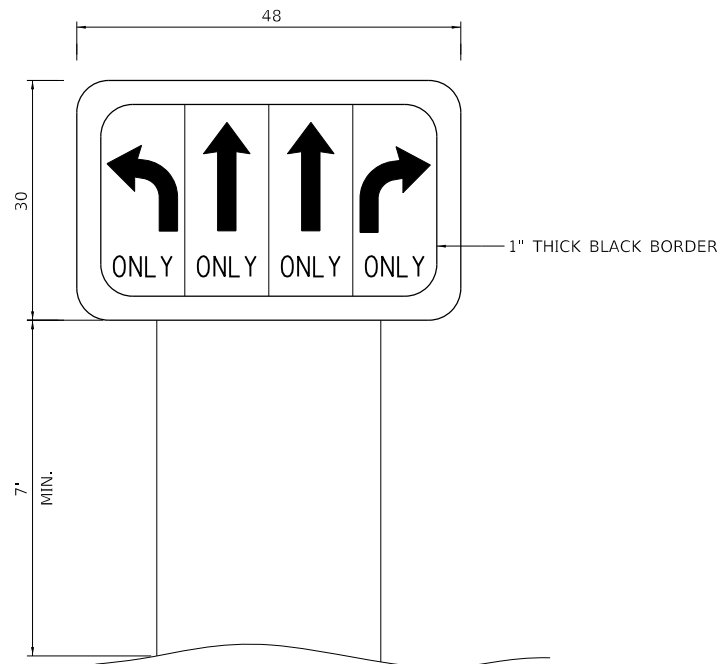
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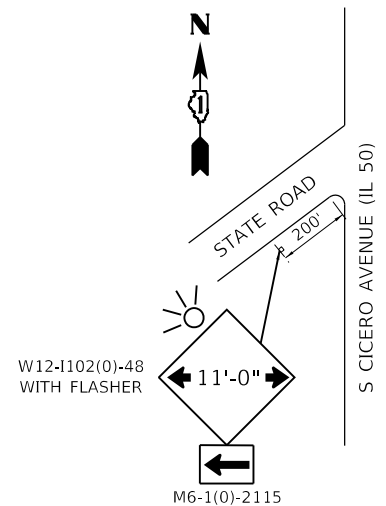
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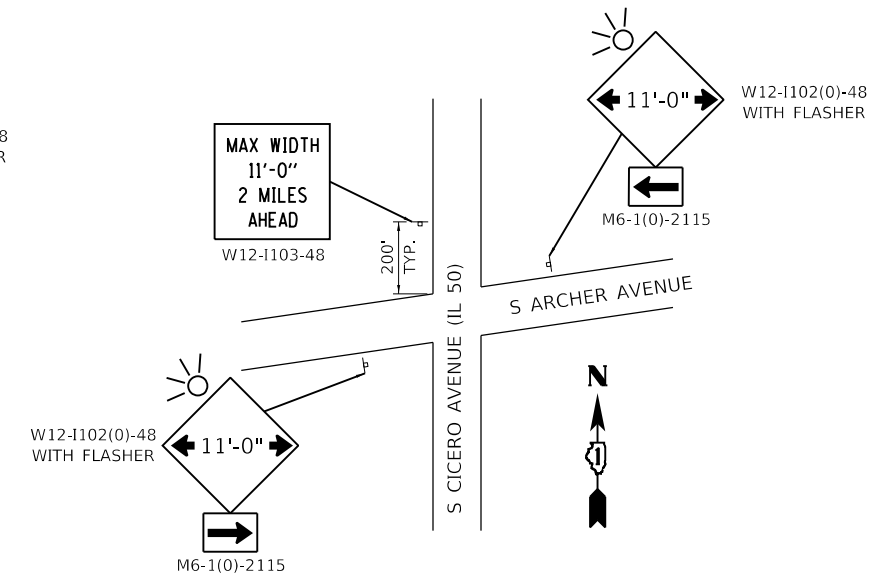
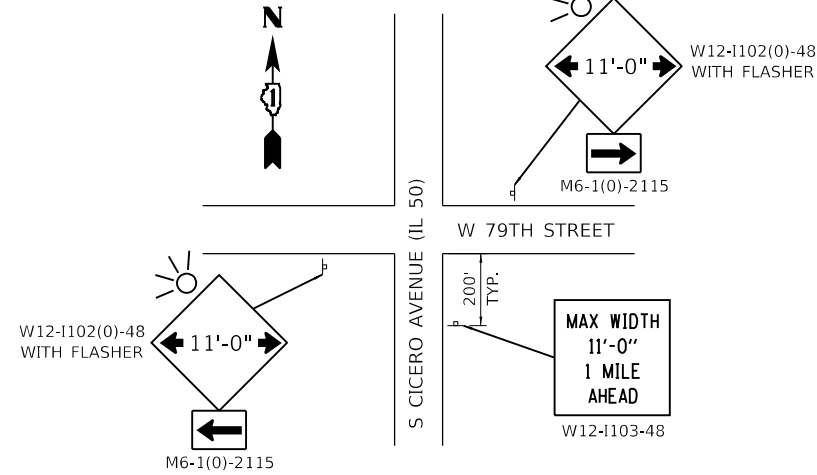
TEMPORARY INFORMATION SIGNING C



TEMPORARY INFORMATION SIGNING D



WIDTH RESTRICTION SIGNING FOR NORTHBOUND DIRECTION



WIDTH RESTRICTION SIGNING FOR SOUTHBOUND DIRECTION

- NOTES:**
1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
 2. USE BLACK LETTERING ON ORANGE BACKGROUND.
 3. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
 4. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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		PLOT DATE =	10/14/2020				

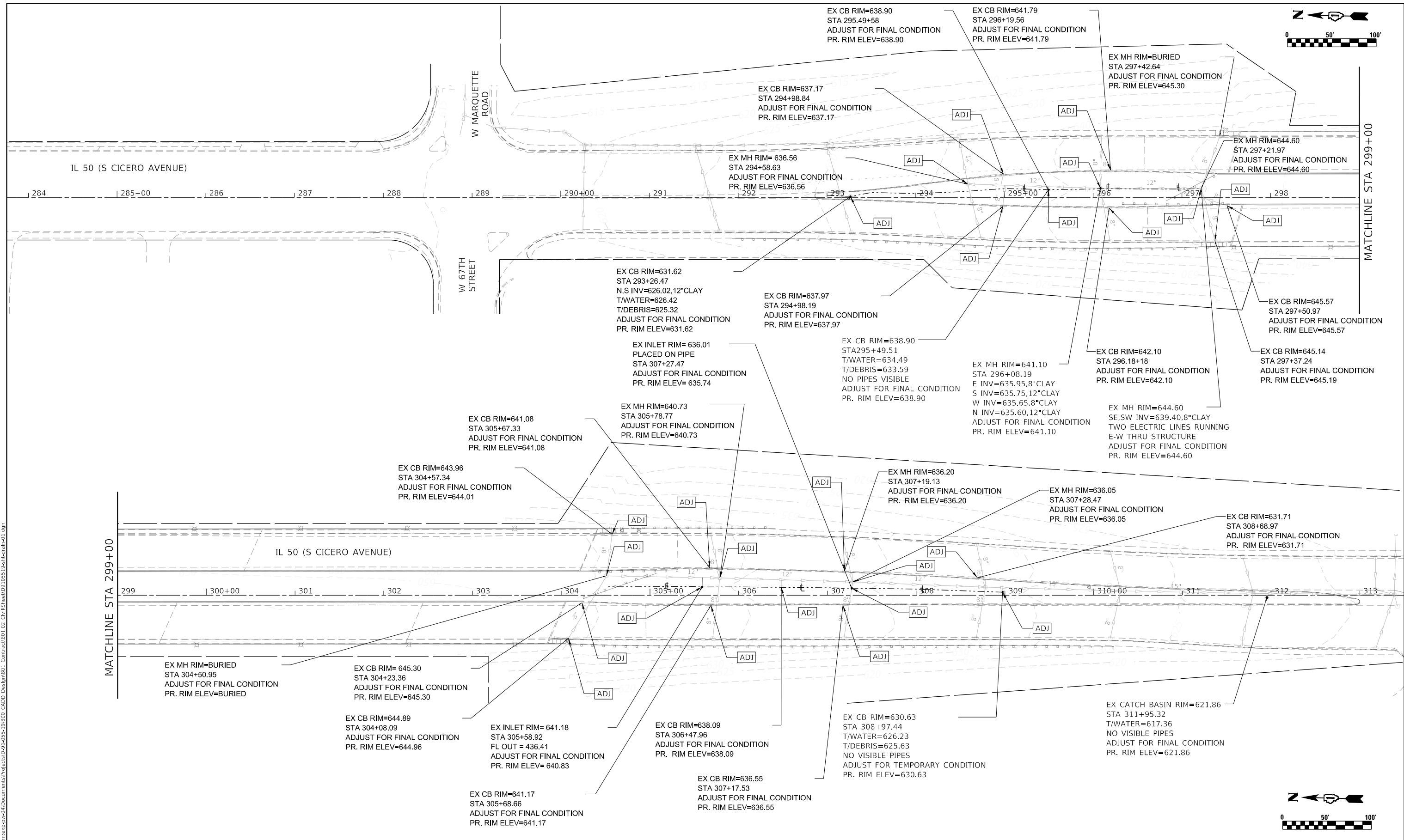
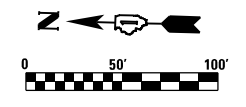
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

STAGING AND TRAFFIC CONTROL DETAILS
TEMPORARY INFORMATION SIGNING

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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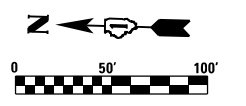
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	33
CONTRACT NO. 62H50			ILLINOIS FED. AID PROJECT	





NOTES

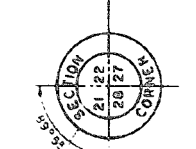
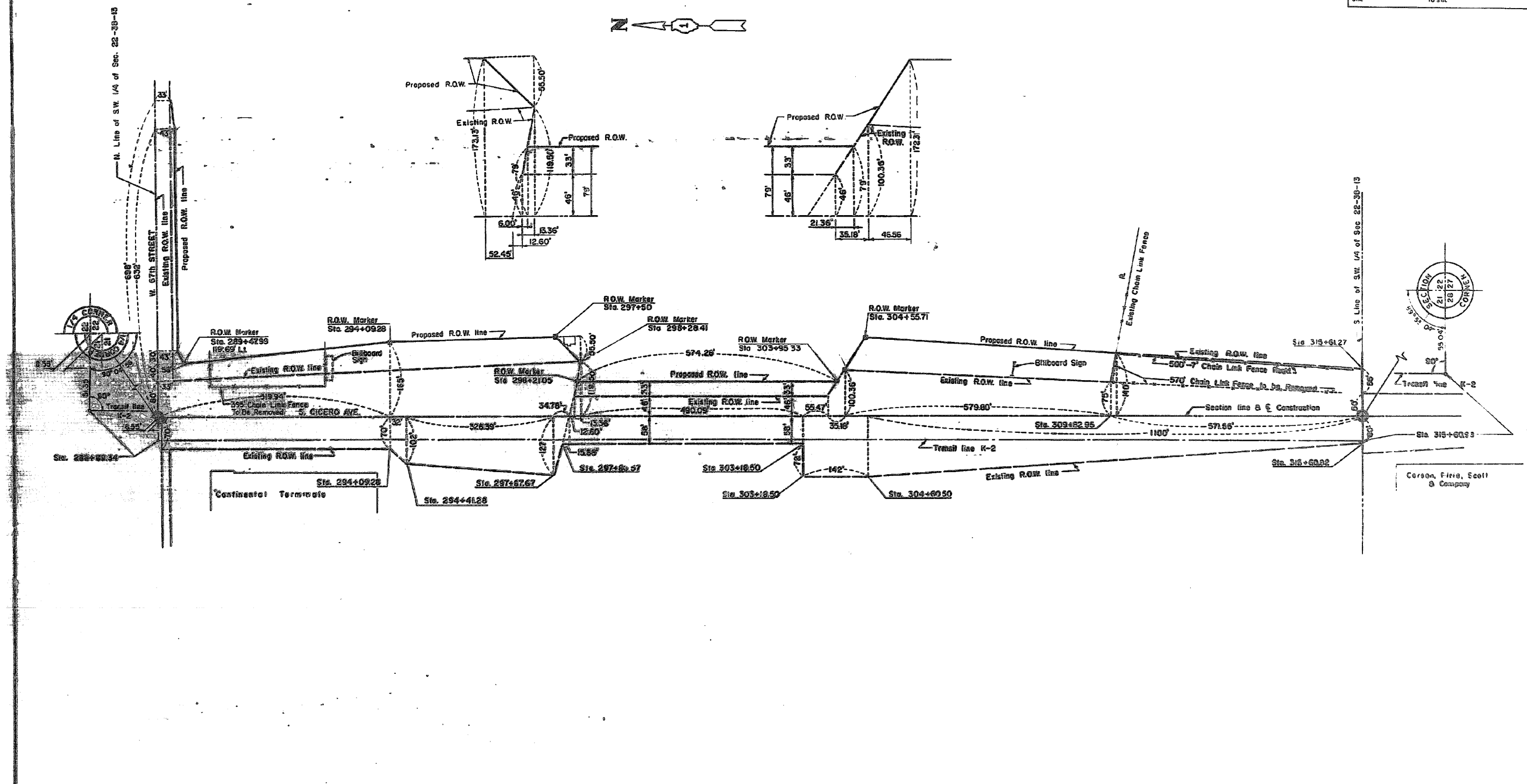
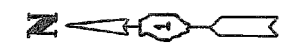
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 AEG ATLAS ENGINEERING GROUP, LTD.

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PLOT DATE = 10/14/2020		DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS

F.A. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12B	2018-124-BR	COOK	95	35
STA.	TO STA.			



REVISIONS	
NO.	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A. ROUTE 126

ILL. 50 (CICERO AVE) OVER BELT RAILWAY

PROPOSED R.O.W.

SCALE: 1" = 100'

DATE: DEC 1976

DESIGNED BY: AWR

CHECKED BY:

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 CONTRACT: 801
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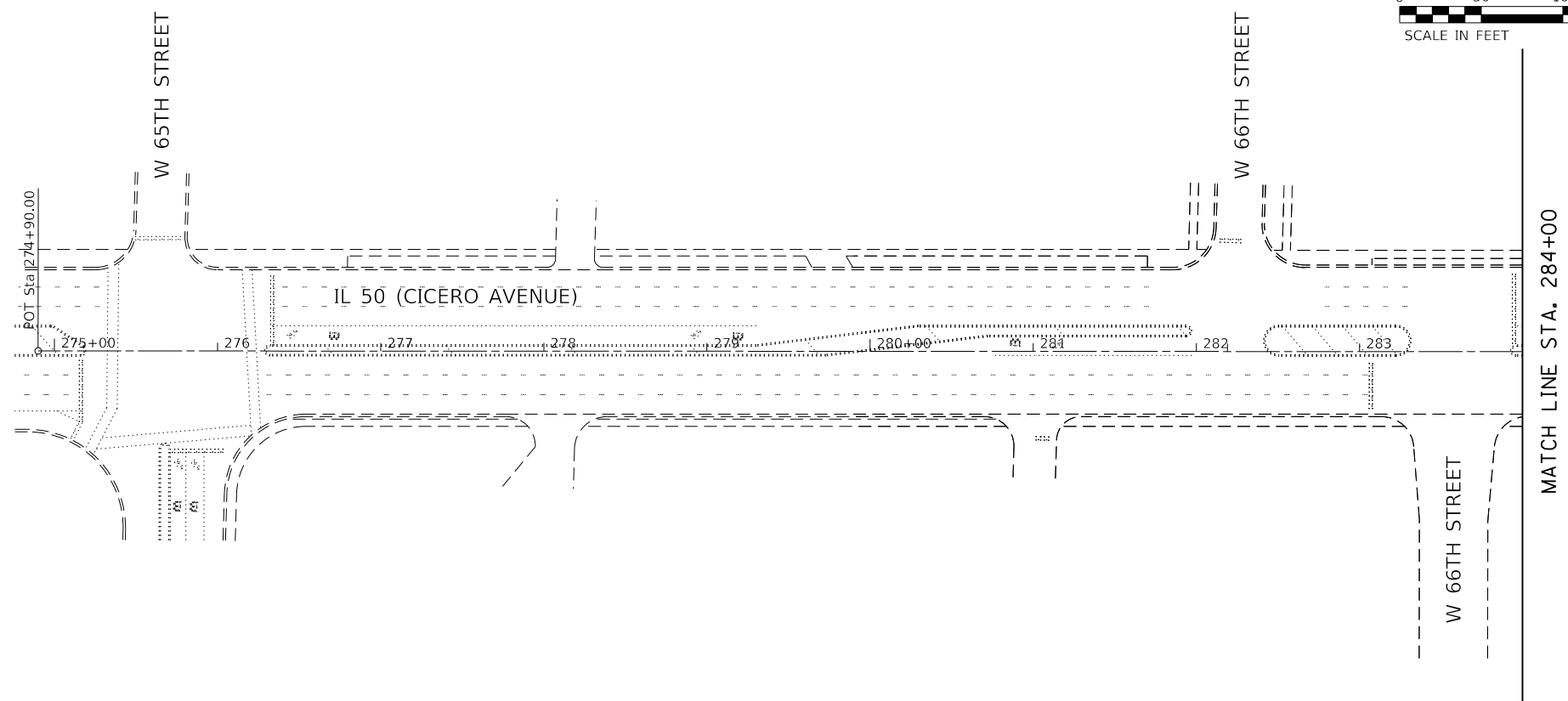
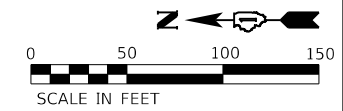
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PLOT DATE = 10/14/2020		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 ILL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

RECORD RIGHT OF WAY			
SCALE:	SHEET	OF	SHEETS
		STA.	TO STA.

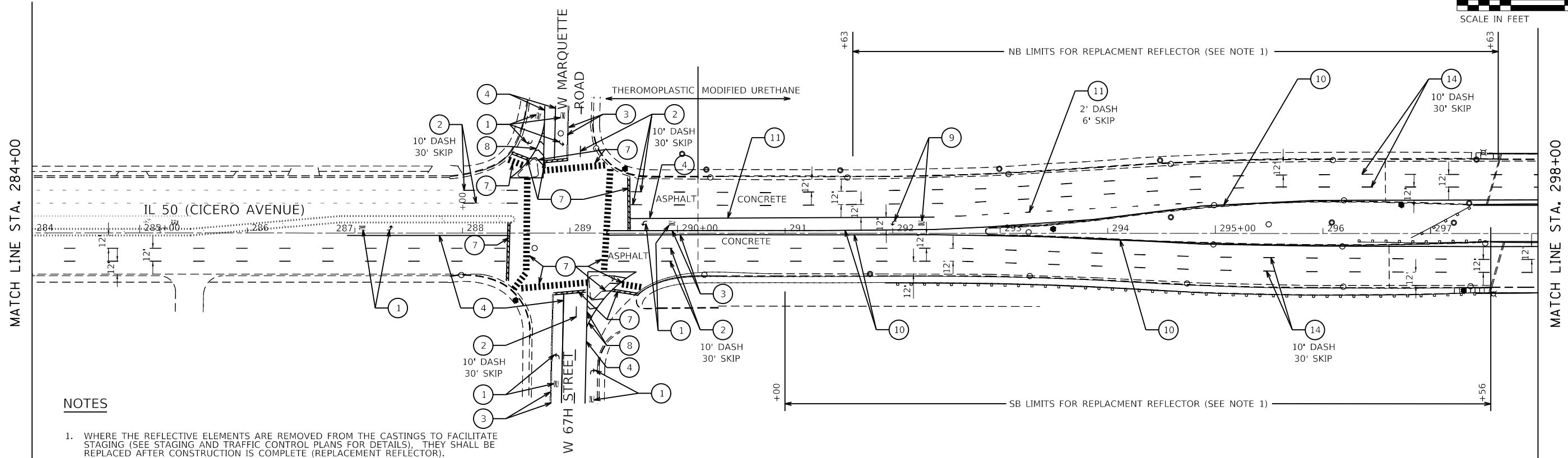
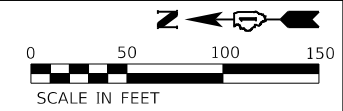
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350	2018-124-BR	COOK	95	35
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				





PAVEMENT MARKING LEGEND

- | | |
|------------------------------|---|
| ① THPL PVT MK LTR & SYM | ⑧ THPL PVT MK LINE 8 WHITE |
| ② THPL PVT MK LINE 4 WHITE | ⑨ MODIFIED URETHANE PM T1 LTR-SY |
| ③ THPL PVT MK LINE 4 YELLOW | ⑩ MODIFIED URETHANE PM T1 LN 4 YELLOW |
| ④ THPL PVT MK LINE 6 WHITE | ⑪ MODIFIED URETHANE PM T1 LN 6 WHITE |
| ⑤ THPL PVT MK LINE 12 WHITE | ⑫ MODIFIED URETHANE PM T1 LN 12 WHITE |
| ⑥ THPL PVT MK LINE 12 YELLOW | ⑬ MODIFIED URETHANE PM T1 LN 24 WHITE |
| ⑦ THPL PVT MK LINE 24 WHITE | ⑭ PREF PL PM TB LINE 7
GRV RCSD PVT MRKG 8 |



NOTES

- WHERE THE REFLECTIVE ELEMENTS ARE REMOVED FROM THE CASTINGS TO FACILITATE STAGING (SEE STAGING AND TRAFFIC CONTROL PLANS FOR DETAILS), THEY SHALL BE REPLACED AFTER CONSTRUCTION IS COMPLETE (REPLACEMENT REFLECTOR).
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH D1 DETAIL TC-13, EXCEPT THAT CROSSWALKS SHALL BE ACCORDING TO SHEET 3 OF D1 DETAIL TC-24. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH D1 DETAIL TC-11.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

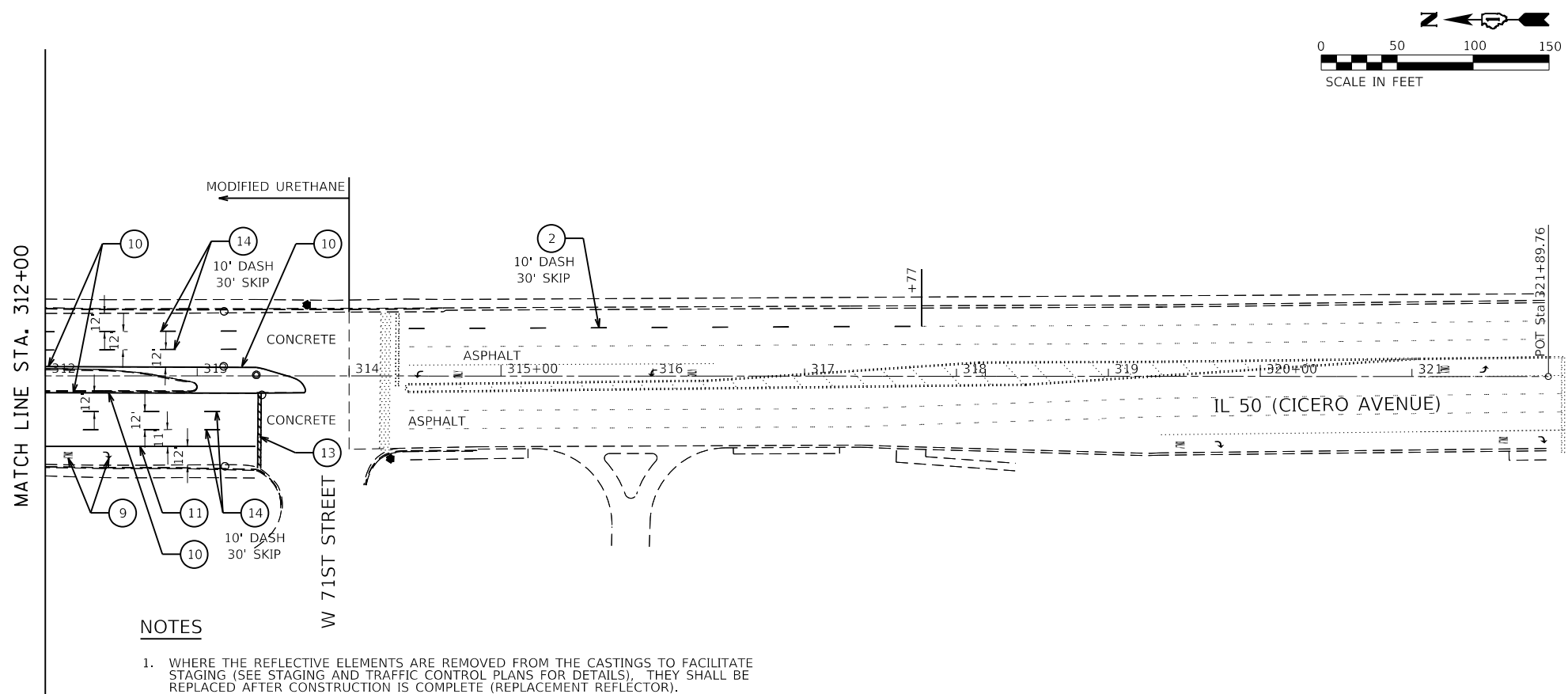
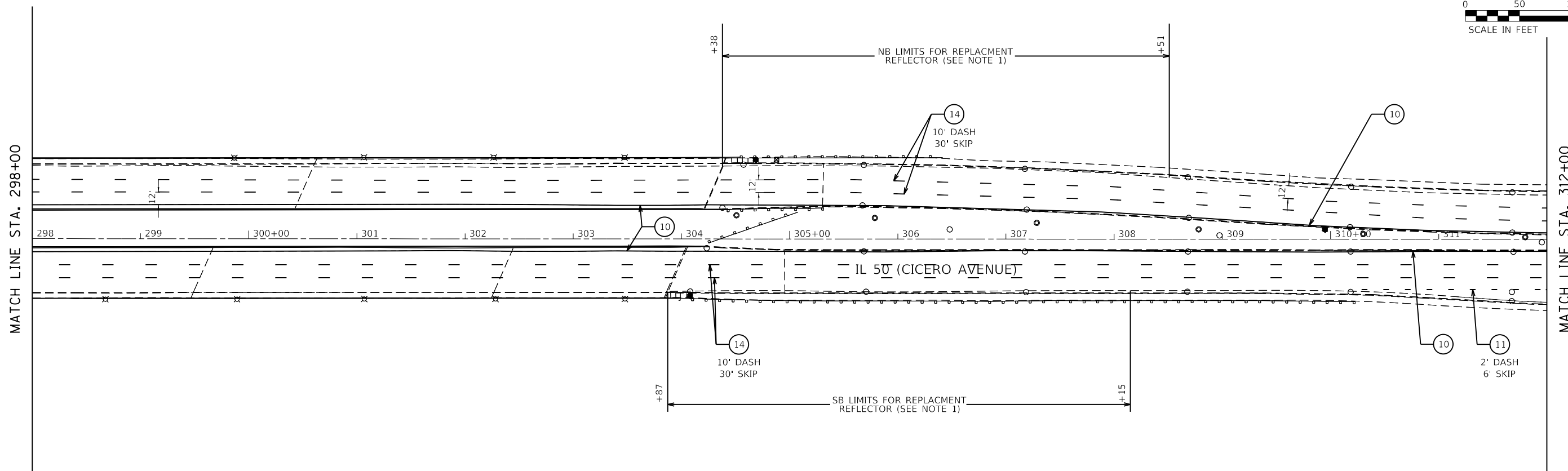
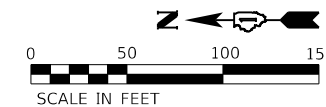
PAVEMENT MARKING PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62H50				
ILLINOIS		FED. AID PROJECT		

SCALE: SHEET OF SHEETS STA. 274+90 TO STA. 298+00

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 BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

FILE NAME =	USER NAME = anthony.friedman	DESIGNED - BKW	REVISED -
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exp U.S. Services Inc. Chicago, IL	PLOT SCALE = 100.0000 ' / in.	CHECKED - DDH	REVISED -
BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	PLOT DATE = 10/14/2020	DATE - 10/15/2020	REVISED -



PAVEMENT MARKING LEGEND

①	THPL PVT MK LTR & SYM	⑧	THPL PVT MK LINE 8 WHITE
②	THPL PVT MK LINE 4 WHITE	⑨	MODIFIED URETHANE PM T1 LTR-SY
③	THPL PVT MK LINE 4 YELLOW	⑩	MODIFIED URETHANE PM T1 LN 4 YELLOW
④	THPL PVT MK LINE 6 WHITE	⑪	MODIFIED URETHANE PM T1 LN 6 WHITE
⑤	THPL PVT MK LINE 12 WHITE	⑫	MODIFIED URETHANE PM T1 LN 12 WHITE
⑥	THPL PVT MK LINE 12 YELLOW	⑬	MODIFIED URETHANE PM T1 LN 24 WHITE
⑦	THPL PVT MK LINE 24 WHITE	⑭	PREF PL PM TB LINE 7 GRV RCSD PVT MRKG 8

NOTES

- WHERE THE REFLECTIVE ELEMENTS ARE REMOVED FROM THE CASTINGS TO FACILITATE STAGING (SEE STAGING AND TRAFFIC CONTROL PLANS FOR DETAILS), THEY SHALL BE REPLACED AFTER CONSTRUCTION IS COMPLETE (REPLACEMENT REFLECTOR).
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH D1 DETAIL TC-13. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH D1 DETAIL TC-11.

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 INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY

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BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	PLOT DATE = 10/14/2020	DATE - 10/15/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

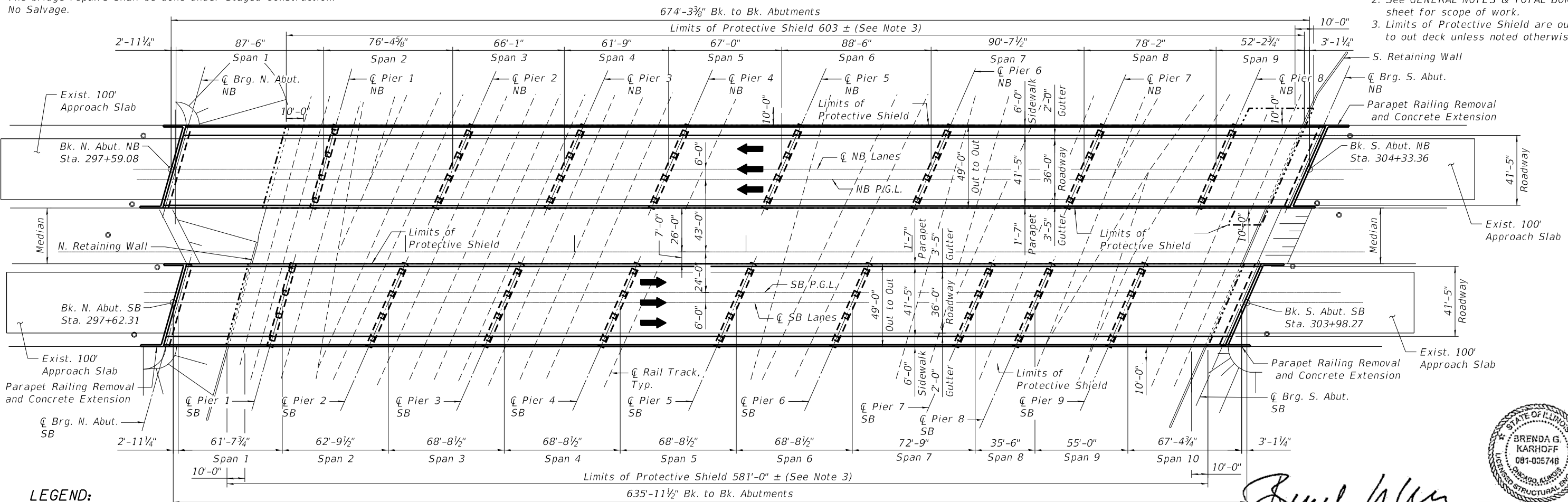
PAVEMENT MARKING PLAN

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350	2018-124-BR	COOK	95	37
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				

The existing Cicero Avenue Northbound and Southbound bridges (IL Route 50) over BRC R.R. were built in 1981 as precast prestressed concrete I-beam superstructure on closed abutments and piers on creosoted piles. The back to back abutment length for 9-span NB bridge is 674'-3 3/8" in length and 49'-0" out to out deck. The back to back abutment length for 10-span SB bridge is 635'-11 1/2" in length and 49'-0" out to out deck. Expansion joints over piers were replaced and piers under expansion joints were repaired in 2009. The bridge repairs shall be done under Staged Construction. No Salvage.

- Notes:
1. Stations and dimensions based on existing plans. See General Notes.
 2. See GENERAL NOTES & TOTAL BOM sheet for scope of work.
 3. Limits of Protective Shield are out to out deck unless noted otherwise.



LEGEND:

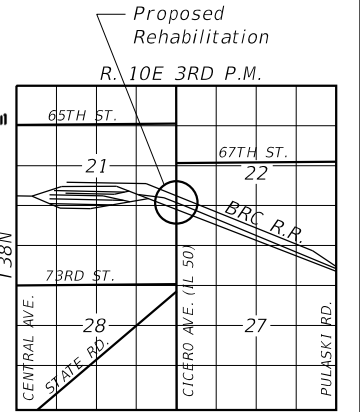
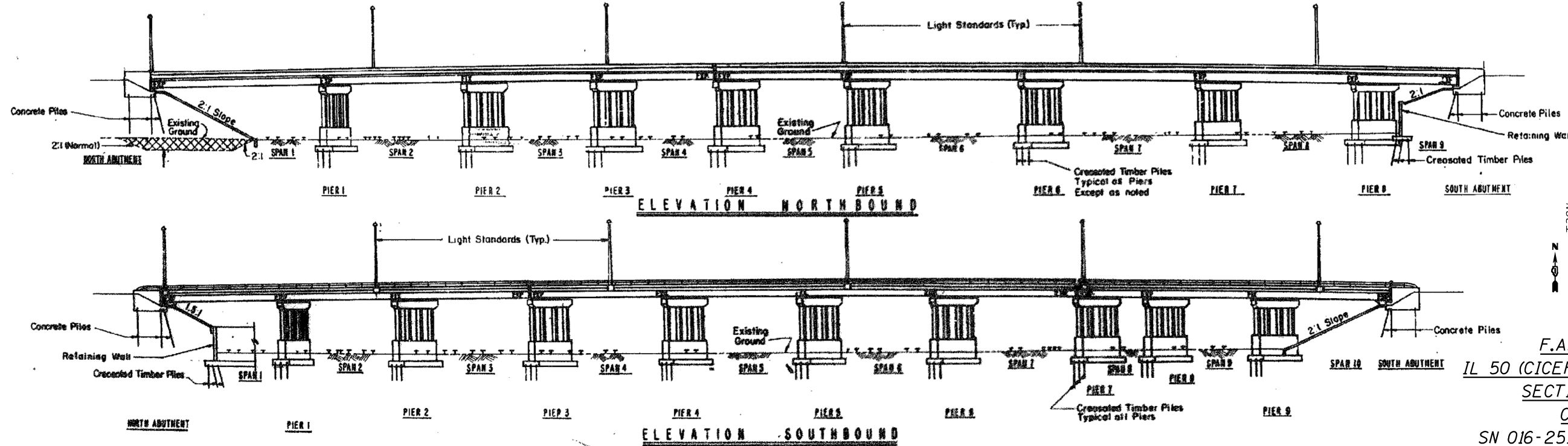
- - - - - Limits of Protective Shield
- Exist. Catch Basin
- - - - - \bar{C} Exist. Rail Track



GENERAL PLAN

S.N. 016-2512 (SB), 016-2513 (NB)

Brenda G. Karhoff
 Licensed Structural Engineer, State of Illinois
 Expires 11/30/2020



F.A.P. ROUTE 350
 IL 50 (CICERO AVE) OVER BRC R.R.
 SECTION 2018-124-BR
 COOK COUNTY
 SN 016-2512 (SB), 016-2513 (NB)

FILE NAME = D9105519-sht-General Plan.dgn	USER NAME = c-friedmana	DESIGNED - ZC	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL ROUTE 50 (CICERO AVENUE) OVER BRC RAILROAD	SN 016-2512 (SB), SN 016-2513 (NB) GENERAL PLAN & ELEVATION	F.A.P. RTE. = 350	SECTION = 2018-124-BR	COUNTY = COOK	TOTAL SHEETS = 95	SHEET NO. = 38
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PLOT DATE = 11/18/2020	DATE = 10/06/2020	REVISIONS -	CONTRACT NO. 62H50							
GARZA KARHOFF ENGINEERING, LLC										

GENERAL NOTES:

- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Reinforcement bars designated (E) shall be epoxy coated.
- Joint openings shall be adjusted according to Art. 520.04 in the Standard Specifications. when the deck is poured at an ambient temperature other than 50°F.
- Expansion joints shall be fabricated and installed according to the Manufacturer's recommendations and as approved by the Engineer.
- Expansion joints shall be fabricated to conform existing cross slopes of bridges.
- Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- Concrete Sealer shall be applied to pier caps, pier columns, and abutments all exposed surfaces under deck joints. Concrete sealer shall only be applied to new concrete.
- Protective coat shall be applied to the top and inside face of all concrete parapets, the top of all sidewalks, all new concrete and the latex concrete overlay.
- An emptied Material Transfer Device (MTD) is allowed over SN 016-2512 but no MTD will be allowed over SN 016-2513. The emptied MTD must be transported over SN 016-2513 on a transport vehicle and the Contractor must provide information describing axle loads and axle spacing of the transport vehicle to the Engineer for review by the Bureau of Bridges and Structures.
- Contractor shall be aware that the deck is constructed with precast planks and these planks cannot be damaged. Any damage to the plank will require full replacement of the whole plank and a full depth deck section at the Contractor's cost.
- The Engineer shall be notified of concrete removal that exceeds 6 in. (150 mm) in depth, one fourth the cross section of a structural member, more than half the vertical column reinforcement is exposed in a cross section, more than 6 consecutive reinforcement bars are exposed in any direction, within 1.5 in. (38 mm) of a bearing area, or other structural concern. Excessive deterioration or removal may require further evaluation of the structure or installation of additional temporary shoring and cribbing support systems.
- The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beams.

INDEX OF SHEETS

- S-01 General Plan & Elevation
- S-02 General Notes & Total BOM
- S-03 Construction Staging
- S-04 NB Bridge Deck Repair and Overlay Plan
- S-05 SB Bridge Deck Repair and Overlay Plan
- S-06 NB Parapet and Railing Repairs 1
- S-07 NB Parapet and Railing Repairs 2
- S-08 SB Parapet and Railing Repairs 1
- S-09 SB Parapet and Railing Repairs 2
- S-10 Parapet Extension
- S-11 Expansion Joint, NB North Abutment
- S-12 Expansion Joint, NB Pier 4
- S-13 Expansion Joint, NB South Abutment
- S-14 Expansion Joint, SB North Abutment
- S-15 Expansion Joint, SB Pier 3
- S-16 Expansion Joint, SB Pier 7
- S-17 Expansion Joint, SB South Abutment
- S-18 Typical Expansion Joint Details
- S-19 Beam Repair Key Plan
- S-20 NB Beam Repairs at North & South Abutment
- S-21 NB Beam Repairs at Pier 4
- S-22 SB Beam Repairs at North & South Abutment
- S-23 SB Beam Repairs at Pier 3
- S-24 SB Beam Repairs at Pier 7
- S-25 Beam Repair Details
- S-26 NB North & South Abutment Repairs
- S-27 NB Pier 2 & Pier 3 Repairs
- S-28 NB Pier 4 Repairs
- S-29 SB North & South Abutment Repairs
- S-30 SB Pier 3 Repairs
- S-31 SB Pier 7 Repairs
- S-32 SB Pier 8 & Pier 9 Repairs
- S-33 Slopewall Repair Plan
- S-34 Drainage Scupper Adjustment Details
- S-35 Bar Splicers (Base Sheet)
- S-36 Preformed Joint Strip Seal 1
- S-37 Preformed Joint Strip Seal 2
- S-38 Preformed Joint Strip Seal 3
- S-39 Railing (Base Sheet)
- S-40 Bearing Details - Pier 4; SN 016-2513 (NB)
- S-41 Pedestal Details - Pier 4 (Beams C thru H); SN 016-2513 (NB)
- S-42 NB Bearing Details - South Abutment; SN 016-2513 (NB)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SN 016-2512 (SB)		SN 016-2513 (NB)		TOTAL
		SUPER	SUB	SUPER	SUB	
Porous Granular Embankment	Cu. Yd.	0	5	0	0	5
Portland Cement Concrete Surface Removal - Butt Joint	Sq. Yd.	293	0	293	0	586
Concrete Removal	Cu. Yd.	11.5	0	8.6	0	20.1
Slope Wall Removal	Sq. Yd.	0	3	0	0	3
Protective Shield	Sq. Yd.	3,331	0	3,190	0	6,521
Concrete Structures	Cu. Yd.	0.8	0	0.4	0.5	1.7
Concrete Superstructure	Cu. Yd.	13.8	0	10.3	0	24.1
Bridge Deck Grooving	Sq. Yd.	2,957	0	3,116	0	6,073
Protective Coat	Sq. Yd.	4,101	3	4,328	0	8,432
Furnishing and Erecting Structural Steel	Pound	0	0	860	0	860
Reinforcement Bars, Epoxy Coated	Pound	2,590	0	1,890	110	4,590
Bar Splicers	Each	32	0	24	0	56
Slope Wall 4 Inch	Sq. Yd.	0	3	0	0	3
Preformed Joint Strip Seal	Foot	207	0	157	0	364
Elastomeric Bearing Assembly, Type I	Each	0	0	1	0	1
Elastomeric Bearing Assembly, Type II	Each	0	0	8	0	8
Anchor Bolts, 1"	Each	0	0	68	0	68
Concrete Sealer	Sq. Ft.	0	1,109	0	288	1,397
Epoxy Crack Injection	Foot	132	2	26	12	172
Jack and Remove Existing Bearings	Each	0	0	9	0	9
Bridge Deck Latex Concrete Overlay, 2 1/4 Inches	Sq. Yd.	3,193	0	3,378	0	6,571
Cleaning Drainage System	L Sum	0.5	0	0.5	0	1
Bridge Deck Scarification 3/4"	Sq. Yd.	3,193	0	3,378	0	6,571
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	371	1,161	198	346	2,076
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	0	8	2	22	32
* Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.5	0	0.5	0	1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	0	0	2	0	2
Deck Slab Repair (Partial)	Sq. Yd.	54	0	0	0	54
Drainage Scuppers to Be Adjusted	Each	8	0	8	0	16
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	114	0	102	0	216
Acrylic Coating	Sq. Yd.	86	0	79	0	165
Fiber Wrap	Sq. Ft.	763	0	702	0	1,465
Temporary Shoring and Cribbing	Each	0	15	0	6	21

* A nominal full depth deck repair quantity has been provided as a guide for bidding purposes. Actual full depth repair area shall be determined in the field by the Engineer.

DESIGN STRESSES

EXISTING CONSTRUCTION

SUPERSTRUCTURE, SUBSTRUCTURE AND ABUTMENTS:

f'c = 3,500 psi (Reinforced Concrete)
 fy = 60,000 psi (Reinforcement, Deck)
 fs = 24,000 psi (Reinforcement)

PRESTRESSED CONCRETE I-BEAM:

f'c = 6,000 psi
 f'ci = 5,000 psi
 f's = 270,000 psi (1/2 ø Strands)
 f'si = 189,000 psi (1/2 ø Strands)

LOADING - HS 20-44

Original Construction

DESIGN SPECIFICATION

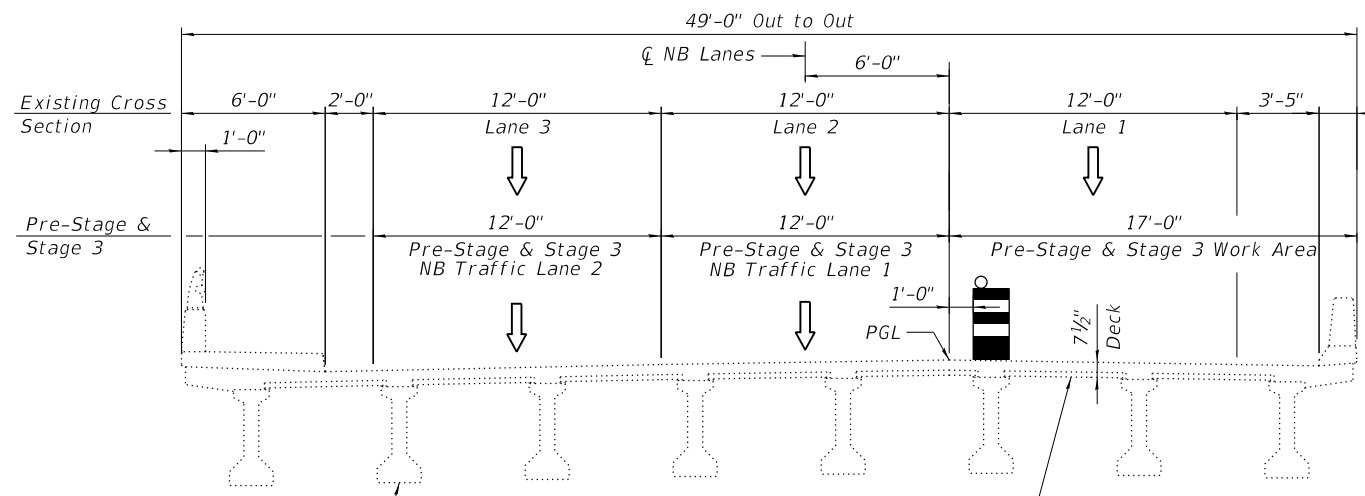
2002 AASHTO Standard Specification for Highway Bridges, 17th Edition

SCOPE OF WORK:

- Substructure concrete repairs.
- Slope wall repair.
- PPC I-Beam & beam end repairs and diaphragm concrete repairs.
- Remove & Replace Select Bearings & repair pedestals.
- Bridge decks and approach slabs scarification.
- Remove and replace existing deck expansion joints with preformed joint strip seals.
- Repair bridge deck slabs, sidewalks and parapets and railing.
- Construct parapet extensions at approach slab sidewalks.
- Adjust deck drainage structures.
- Apply Bridge Decks Latex Concrete Overlay 2 1/4" on bridge decks and approach slabs.
- Apply protective coat to parapets, sidewalks and new concrete.
- Clean drainage system.

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FILE NAME =	USER NAME = c-friedmana	DESIGNED - ZC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL ROUTE 50 (CICERO AVENUE) OVER BRC RAILROAD	SN 016-2512 (SB), SN 016-2513 (NB) GENERAL NOTES & TOTAL BOM	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D9105519-sht-Genral Notes, Index, BOM.dgn		DRAWN - ZC	REVISED -			350	2018-124-BR	COOK	95	39	
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PLOT DATE = 11/18/2020		DATE - 10/15/2020	REVISED -			SCALE:	SHEET 5-02 OF 5-42 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

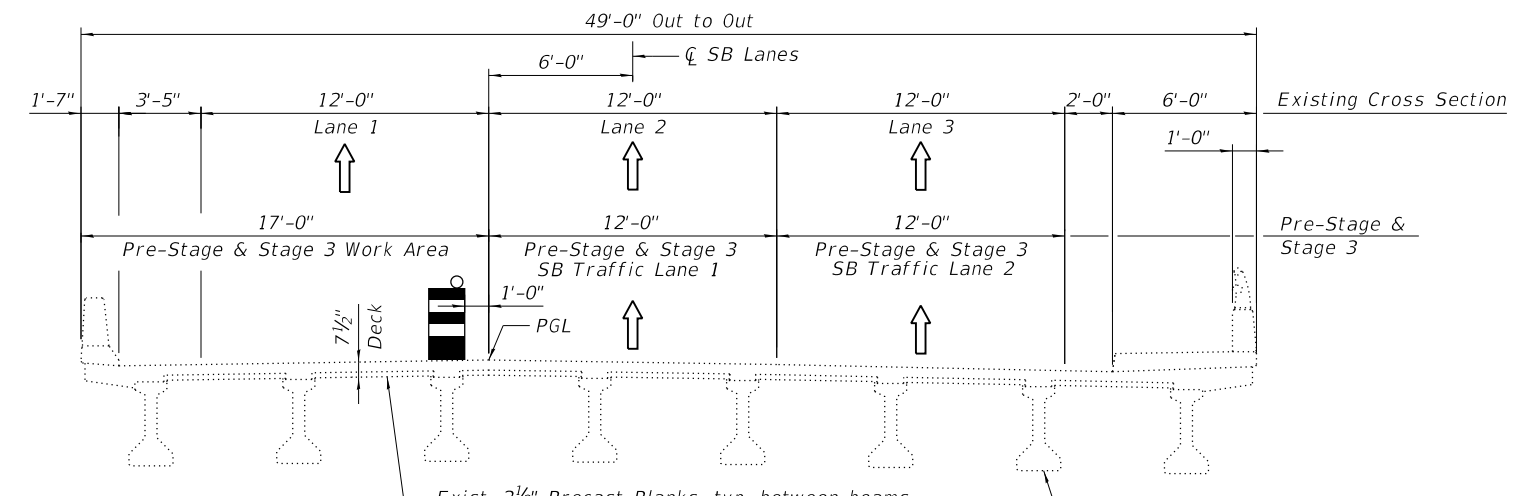


Exist. 48" PPC Beams (NB), to remain, typ.

Exist. 2 1/2" Precast Planks, typ. between beams to remain. See General Notes sheet Note 10.

NORTHBOUND DECK CROSS SECTION

SHOWING EXISTING, PRE-STAGE & STAGE 3 (Looking South)

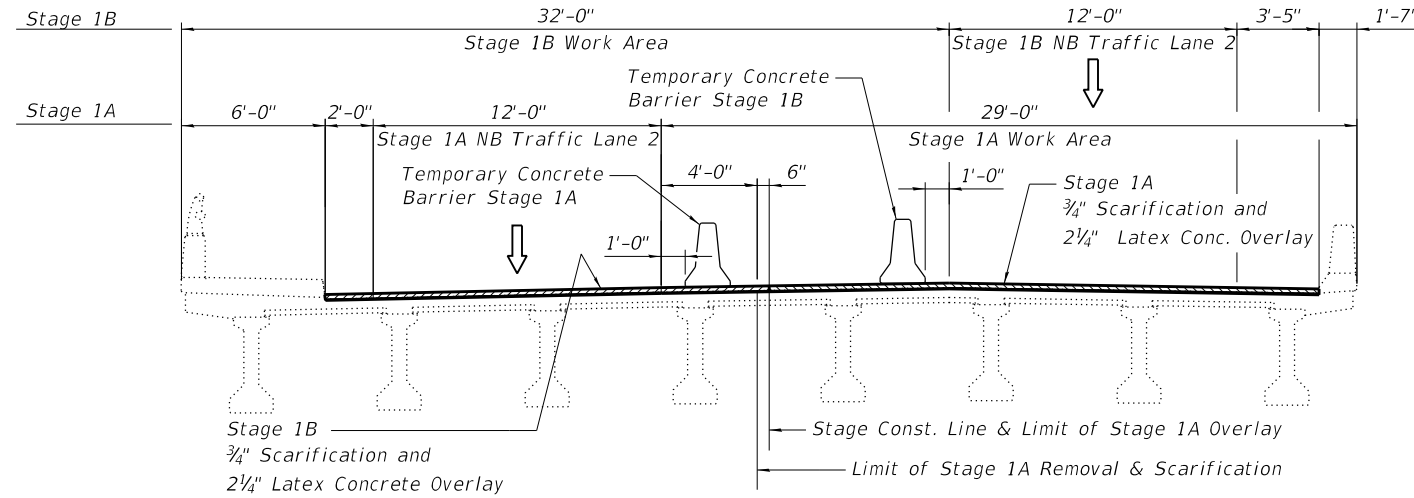


Exist. 2 1/2" Precast Planks, typ. between beams to remain. See General Notes sheet Note 10.

Exist. 42" PPC Beams (SB) to remain, typ.

SOUTHBOUND DECK CROSS SECTION

SHOWING EXISTING, PRE-STAGE & STAGE 3 (Looking South)

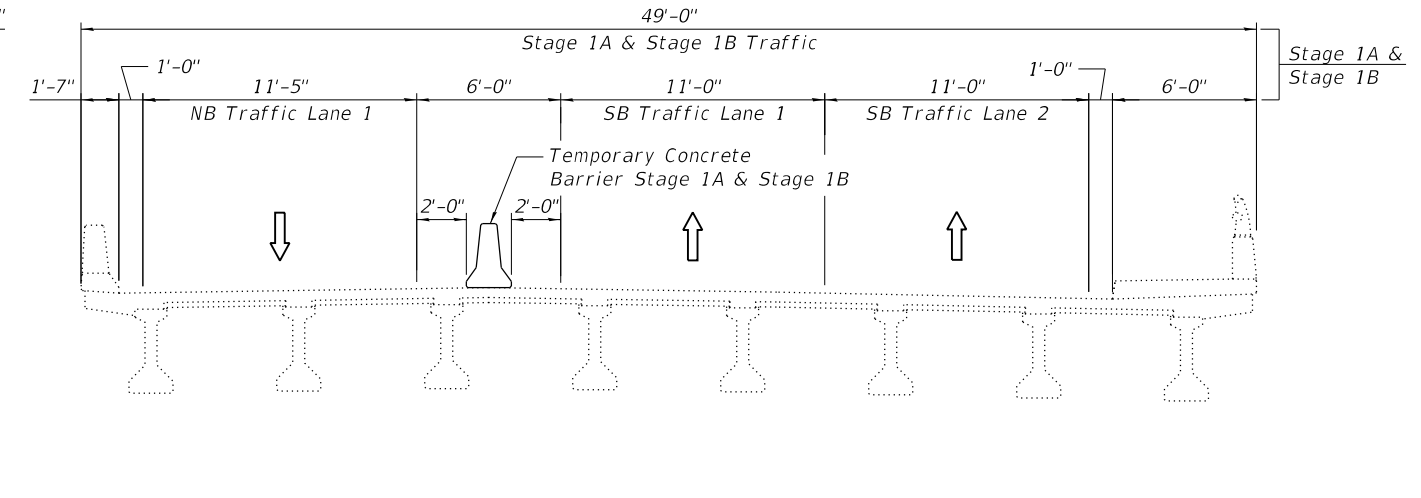


Stage 1B 3/4" Scarification and 2 1/4" Latex Concrete Overlay

Stage Const. Line & Limit of Stage 1A Overlay
Limit of Stage 1A Removal & Scarification

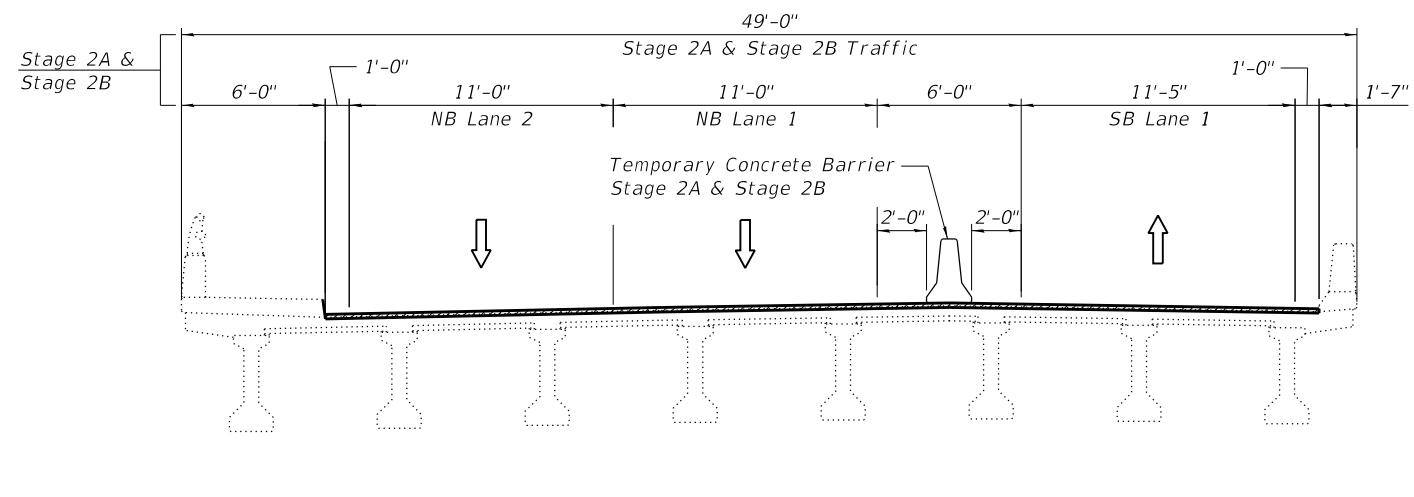
NORTHBOUND - STAGE 1A & 1B

(Looking South)



SOUTHBOUND - STAGE 1A & 1B

(Looking South)

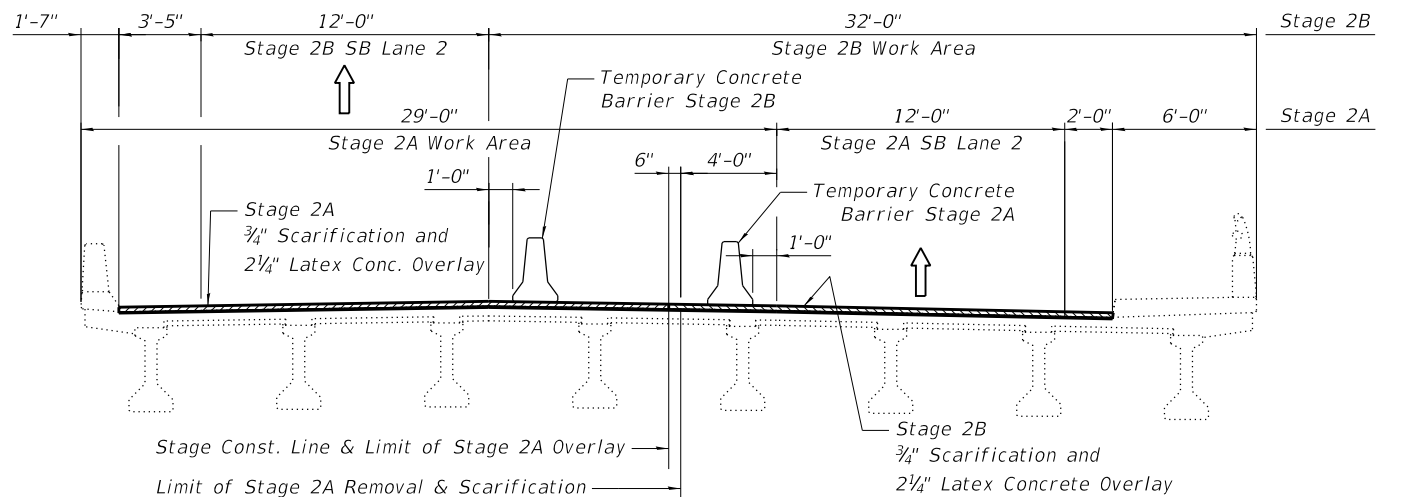


Stage 2A 3/4" Scarification and 2 1/4" Latex Conc. Overlay

Stage Const. Line & Limit of Stage 2A Overlay
Limit of Stage 2A Removal & Scarification

NORTHBOUND - STAGE 2A & 2B

(Looking South)



SOUTHBOUND - STAGE 2A & 2B

(Looking South)

Notes:

1. All dimensions are perpendicular to ϕ Roadway

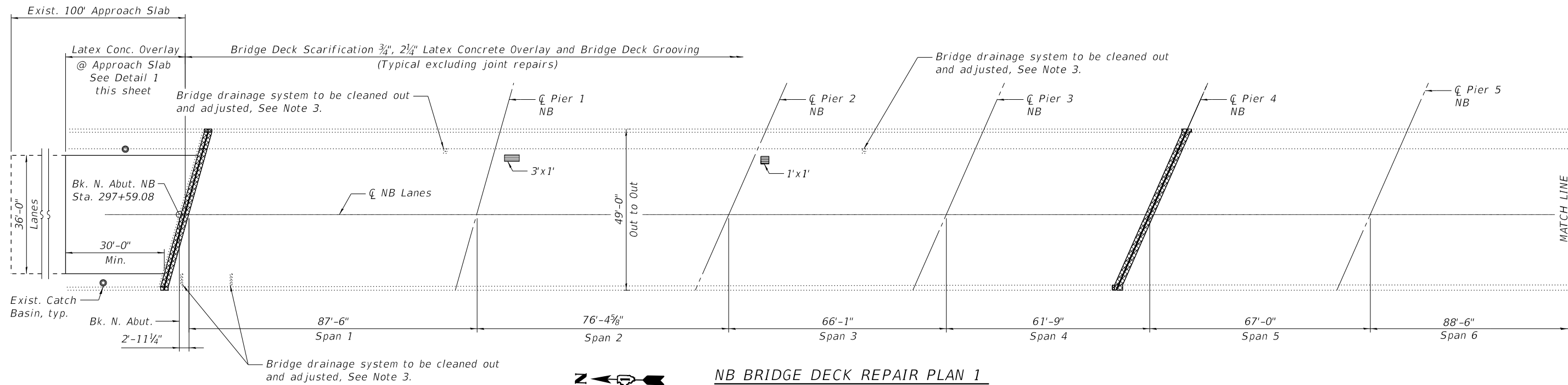
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REVISIONS:
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD
SN 016-2512 (SB), SN 016-2513 (NB)
CONSTRUCTION STAGING
SCALE: SHEET S-03 OF 5-42 SHEETS STA. TO STA.
F.A.P. RTE. 350
SECTION 2018-124-BR
COUNTY COOK
TOTAL SHEETS 95
SHEET NO. 40
CONTRACT NO. 62H50
ILLINOIS FED. AID PROJECT

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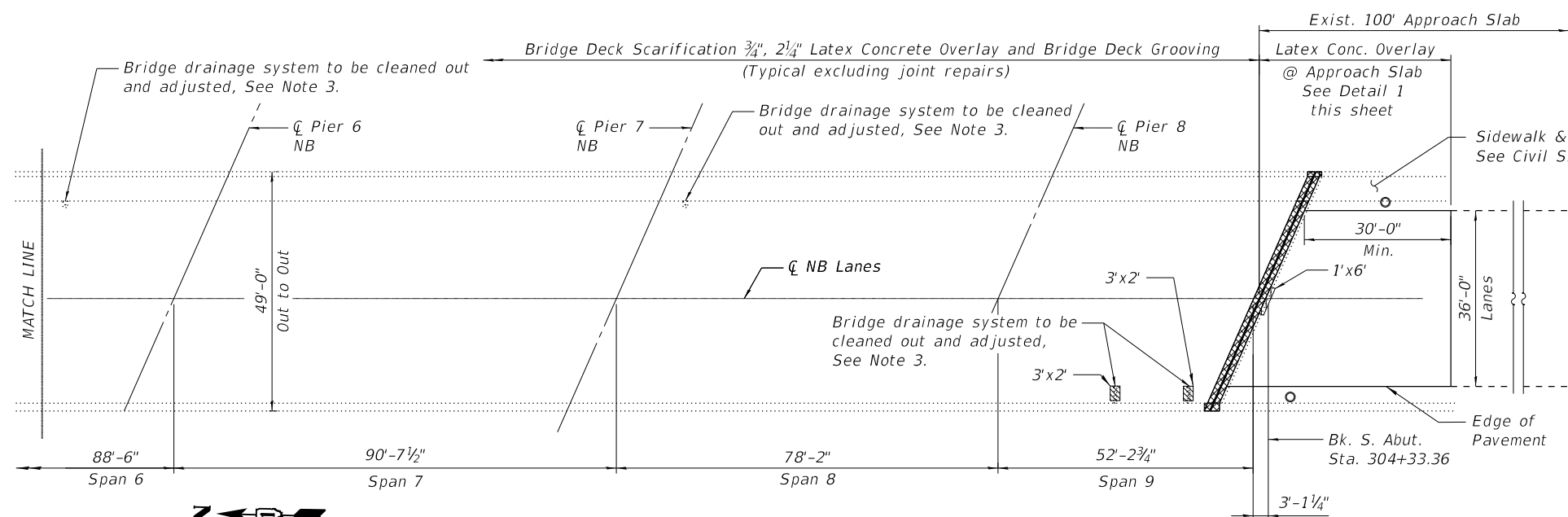
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

SN 016-2512 (SB), SN 016-2513 (NB)
CONSTRUCTION STAGING
SCALE: SHEET S-03 OF 5-42 SHEETS STA. TO STA.

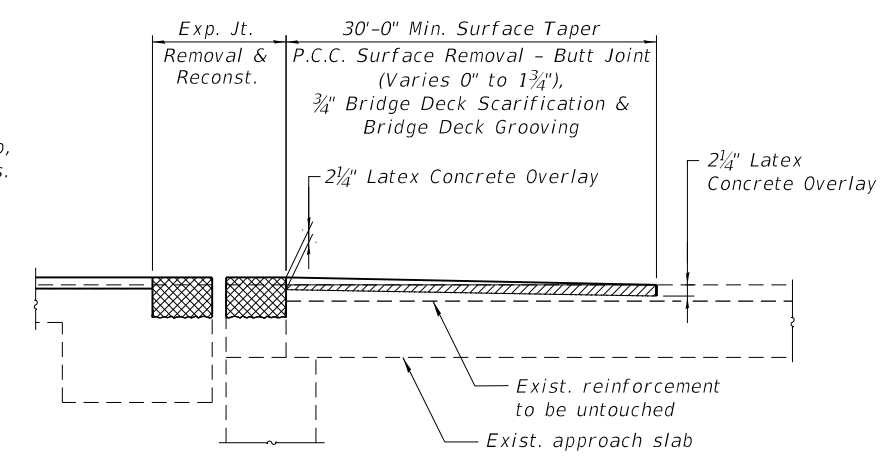
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350	2018-124-BR	COOK	95	40
CONTRACT NO. 62H50			ILLINOIS FED. AID PROJECT	



NB BRIDGE DECK REPAIR PLAN 1



NB BRIDGE DECK REPAIR PLAN 2



**DETAIL 1
LATEX CONCRETE OVERLAY @ APPROACH SLAB
Not to Scale**

LEGEND

- Area of Exp. Jt. Removal and Reconstruction
- Deck Slab Repair (Partial Depth) *
- Deck Slab Repair (Full Depth) at Deck Drains
- Approach Slab Repair (Partial Depth) *
- P.C.C. Surface Removal - Butt Joint

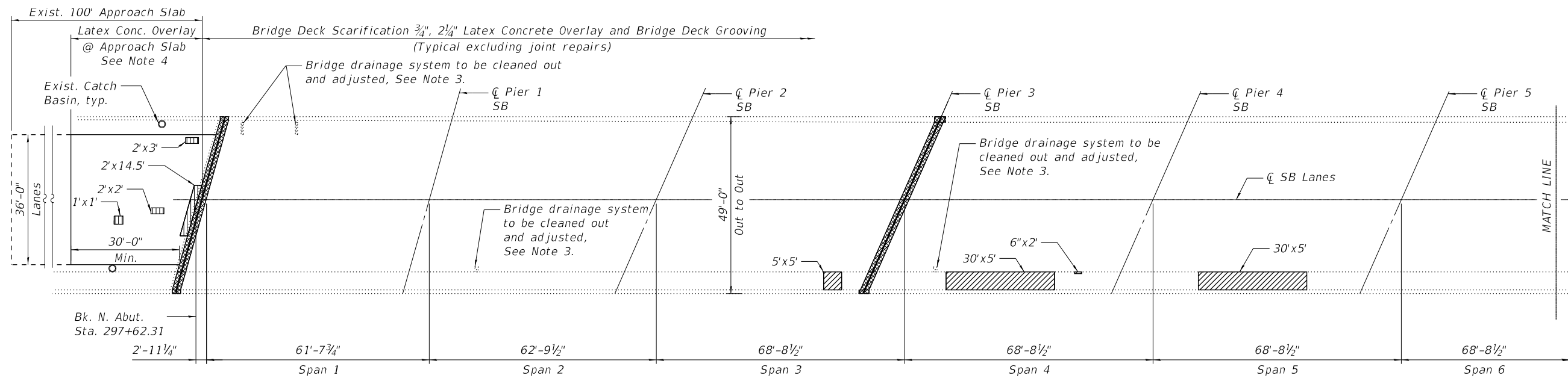
* Cost included in Bridge Deck Latex Concrete Overlay.

Notes:

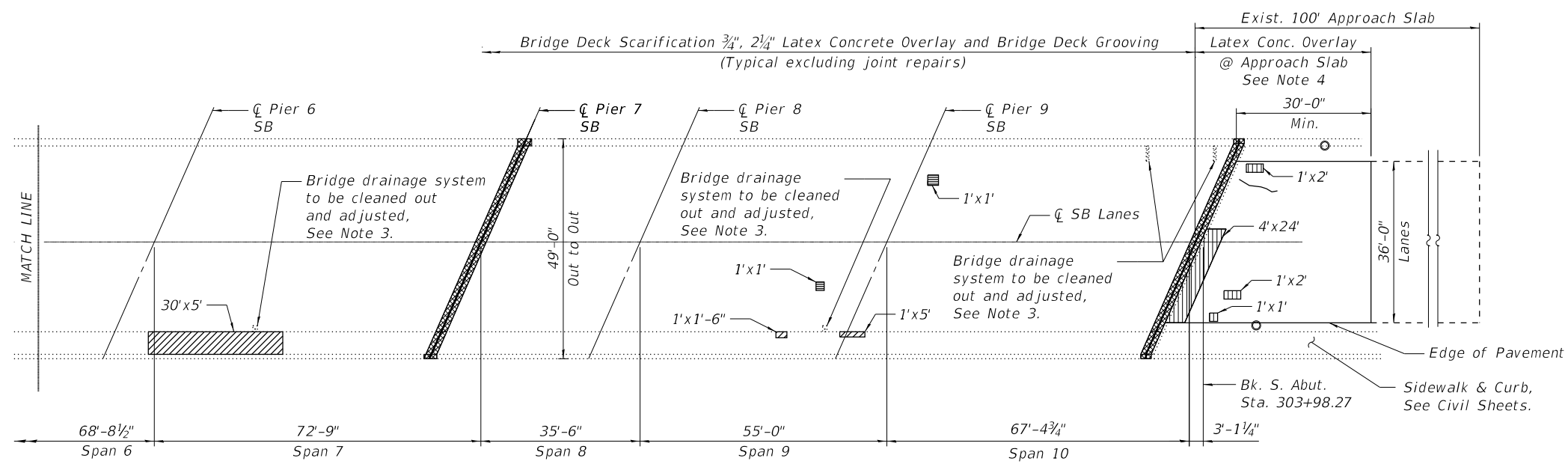
1. Areas of deck repairs are estimated. Actual type, location and dimensions of deck repairs are to be determined and documented by the Engineer during construction.
2. See Expansion Joint sheets for expansion joint replacement details.
3. See "Drainage Scupper Adjustment Details" sheets for details. Existing deck drainage structures to be adjusted, Type "A" south curb and Type "B" north/sidewalk curb.
4. See SB Bridge Deck Repair and Overlay Plans Detail 2 for limits of Protective Coat application.

**BILL OF MATERIAL
SN 016-2513 (NB)**

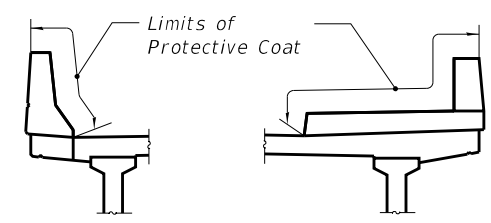
ITEM	UNIT	QUANTITY
P.C.C. Surface Removal - Butt Joint	Sq. Yd.	293
Deck Slab Repair (Full Depth), Type II	Sq. Yd.	2
Protective Coat	Sq. Yd.	4,285
Bridge Deck Grooving	Sq. Yd.	3,116
Bridge Deck Latex Concrete Overlay 2 1/4 Inches	Sq. Yd.	3,378
Bridge Deck Scarification 3/4"	Sq. Yd.	3,378
Cleaning Drainage System	L Sum	0.5
Drainage Scuppers to Be Adjusted	Each	8



SB BRIDGE DECK REPAIR PLAN 1



SB BRIDGE DECK REPAIR PLAN 2



**DETAIL 2
LIMITS OF PROTECTIVE COAT**

LEGEND

- Area of Exp. Jt. Removal and Reconstruction
- Deck Slab Repair (Partial Depth) *
- Sidewalk Repair (Partial Depth) **
- Approach Slab Repair (Partial Depth) *

* Cost included in Bridge Deck Latex Concrete Overlay.
** Paid as Deck Slab Repairs (Partial Depth)

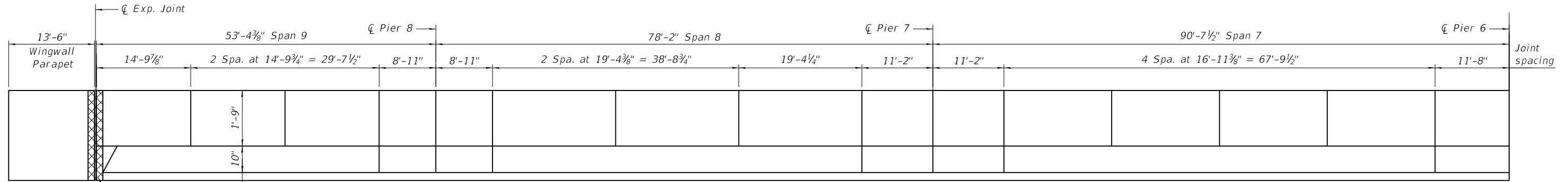
Notes:

1. Areas of deck repairs are estimated. Actual Type, location and dimensions of deck repairs are to be determined and documented by the Engineer during construction.
2. See Expansion joint sheets for expansion joint replacement details.
3. See "Drainage Scupper Adjustment Details" sheets for details. Existing deck drainage structures to be adjusted, Type "A" south curb and Type "B" north/sidewalk curb.
4. See Detail 1 on NB Bridge Deck Repair and Overlay Plan sheet for Latex Concrete Overlay @ Approach Slab detail.

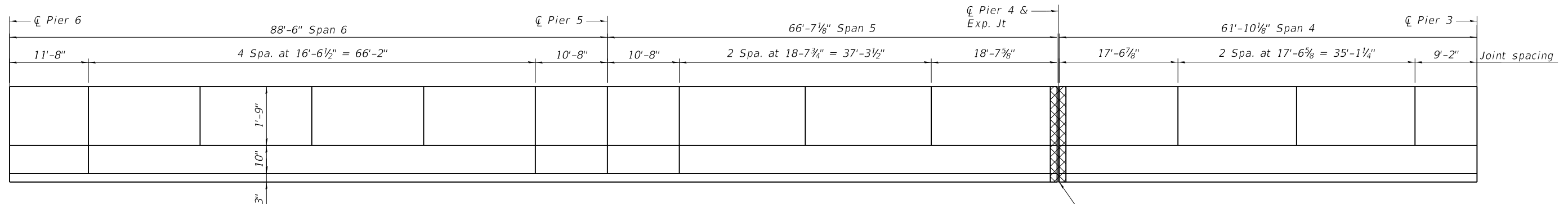
**BILL OF MATERIAL
SN 016-2512 (SB)**

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Protective Coat	Sq. Yd.	4,045
Bridge Deck Grooving	Sq. Yd.	2,957
Deck Slab Repair (Partial)	Sq. Yd.	54
Bridge Deck Latex Concrete Overlay 2 1/4 Inches	Sq. Yd.	3,193
Bridge Deck Scarification 3/4"	Sq. Yd.	3,193
Cleaning Drainage System	L Sum	0.5
Drainage Scuppers to Be Adjusted	Each	8

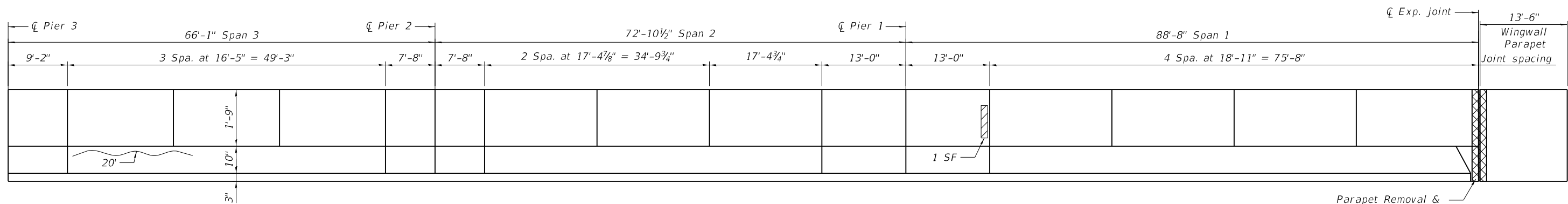
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 CONTRACT: 62H50



ELEVATION- NB WEST PARAPET
Spans 7 thru 9 (Inside Face Shown)



ELEVATION- NB WEST PARAPET
Spans 4 thru 6 (Inside Face Shown)



ELEVATION- NB WEST PARAPET
Spans 1 thru 3 (Inside Face Shown)

LEGEND:

Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)

Epoxy Crack Injection

BILL OF MATERIAL
SN 016-2513 (NB)

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	1
Epoxy Crack Injection	Foot	20

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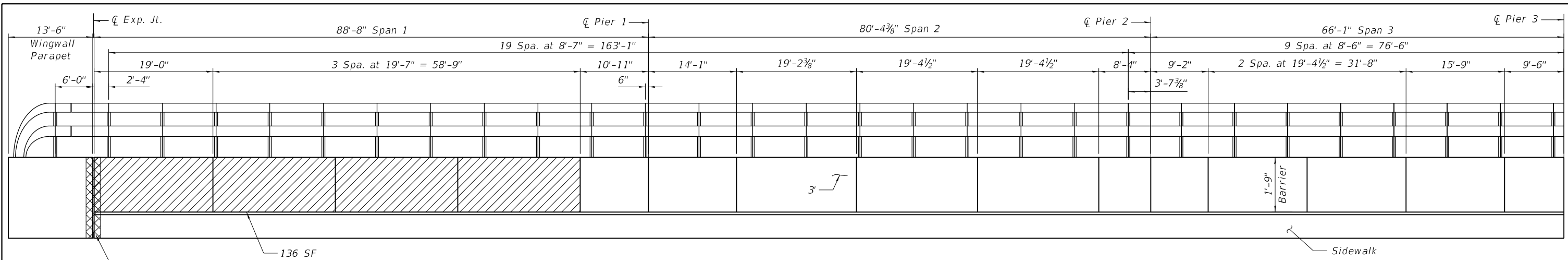
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

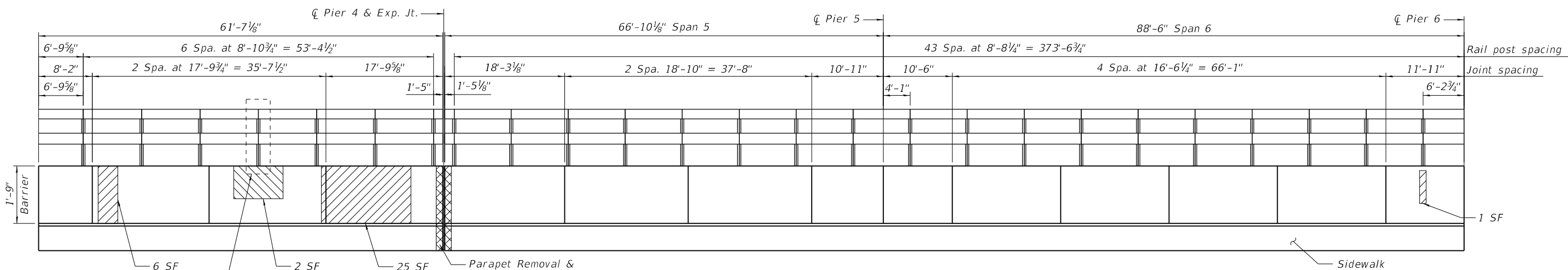
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NB PARAPET AND RAILING REPAIRS 1

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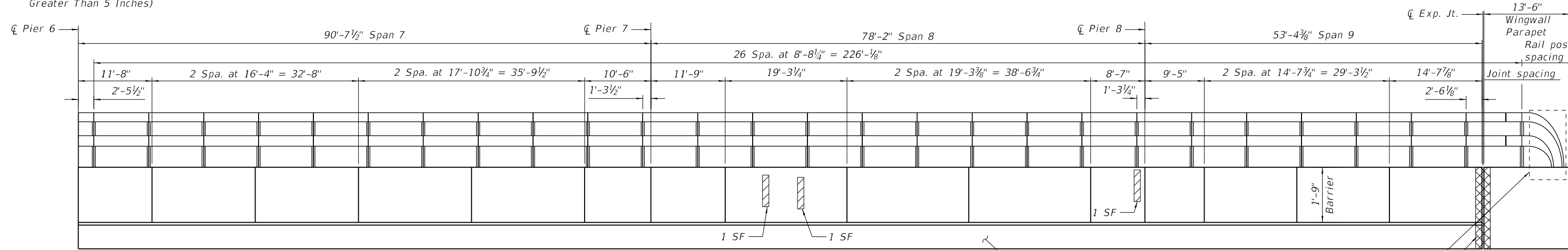
F.A.P. RTE. 350	SECTION 2018-124-BR	COUNTY COOK	TOTAL SHEETS 95	SHEET NO. 43
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H50	



ELEVATION- NB EAST PARAPET AND RAILING
Spans 1 thru 3 (Inside Face Shown)



ELEVATION- NB EAST PARAPET AND RAILING
Spans 4 thru 6 (Inside Face Shown)



ELEVATION- NB EAST PARAPET AND RAILING
Spans 7 thru 9 (Inside Face Shown)

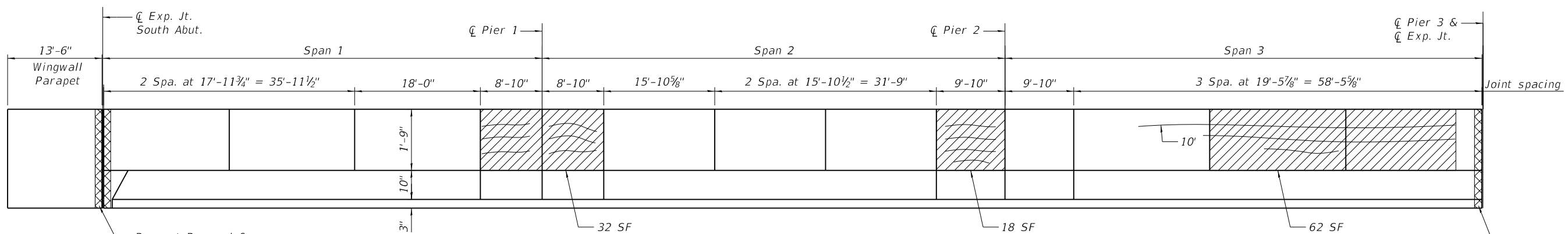
- LEGEND:**
- Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)
 - Structural Repair of Concrete (Depth Greater Than 5 Inches)
 - Epoxy Crack Injection

BILL OF MATERIAL
SN 016-2513 (NB)

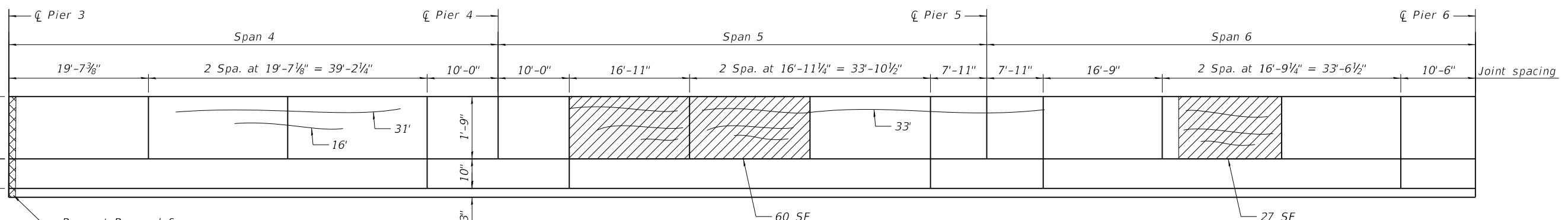
See Parapet Extension Sheet for railing removal & concrete extension

Parapet Removal & Reconstruction, See Expansion Joint Repair Sheets

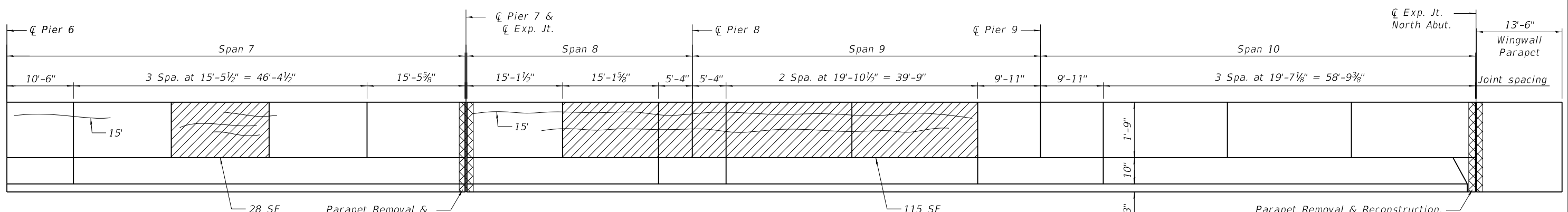
Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	171
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	2
Epoxy Crack Injection	Foot	3



ELEVATION - SB EAST PARAPET
Spans 1 thru 3 (Inside Face Shown)



ELEVATION - SB EAST PARAPET
Spans 4 thru 6 (Inside Face Shown)



ELEVATION - SB EAST PARAPET
Spans 7 thru 10 (Inside Face Shown)

LEGEND:
 Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)
 Epoxy Crack Injection

BILL OF MATERIAL
SN 016-2512 (SB)

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	342
Epoxy Crack Injection	Foot	120

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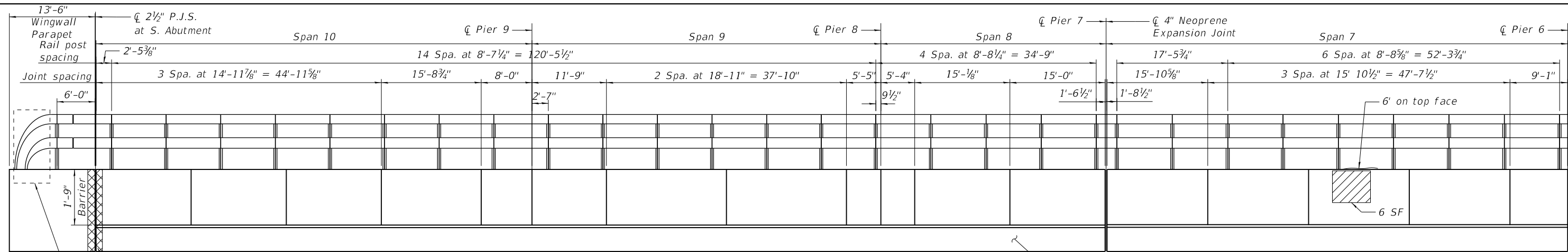
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

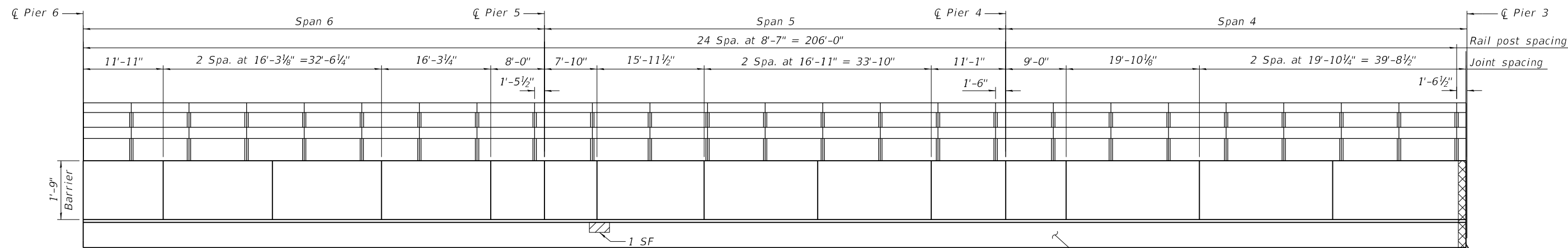
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SB PARAPET AND RAILING REPAIRS 1
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				

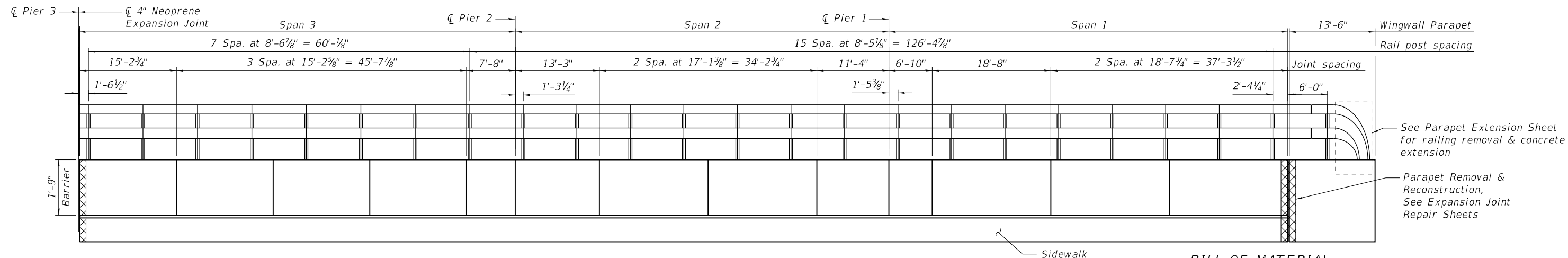




ELEVATION - SB WEST PARAPET & RAILING
Spans 7 thru 10 (Inside Face Shown)



ELEVATION - SB WEST PARAPET & RAILING
Spans 4 thru 6 (Inside Face Shown)



ELEVATION - SB WEST PARAPET & RAILING
Spans 1 thru 3 (Inside Face Shown)

LEGEND:

- Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)
- Epoxy Crack Injection
- 4'

BILL OF MATERIAL
SN 016-2512 (SB)

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	7
Epoxy Crack Injection	Foot	6

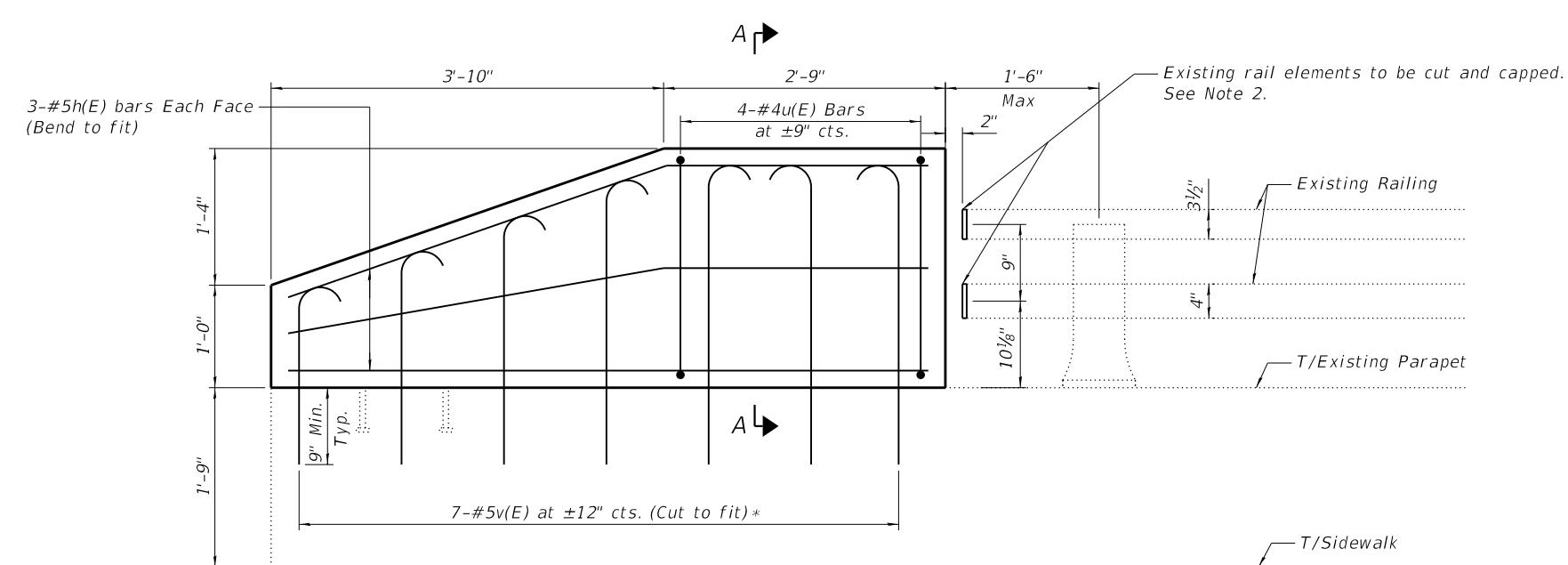
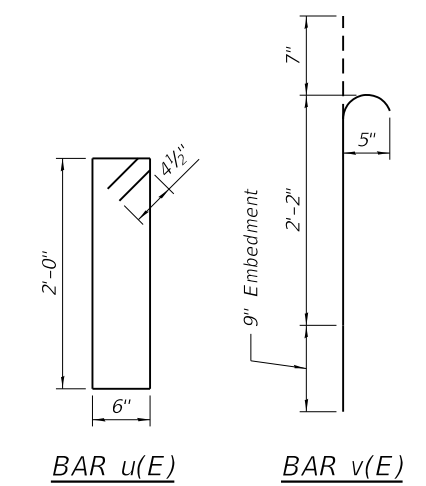
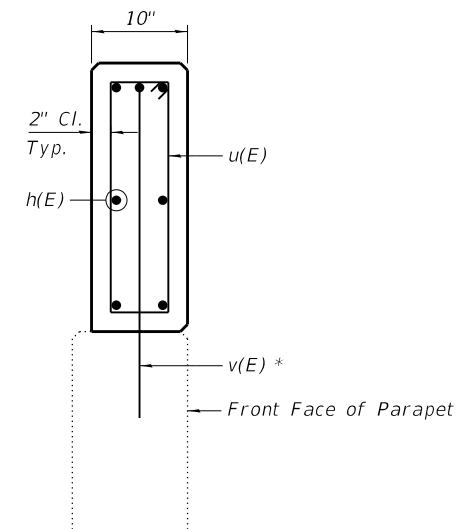
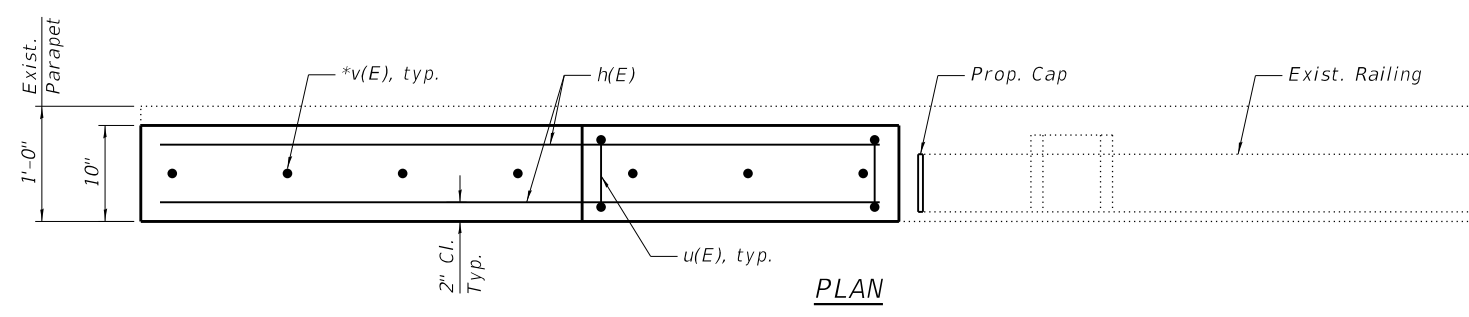
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

SN 016-2512 (SB), SN 016-2513 (NB)
SB PARAPET AND RAILING REPAIRS 2
 SCALE: SHEET S-09 OF 5-42 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	46
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				



BAR LIST
Shown for 1 Wingwall (3 Thus)

Bar	No.	Size	Length	Shape
h(E)	6	#5	6'-3"	—
u(E)	4	#4	5'-9"	⊓
v(E)	7	#5	3'-6"	⌋

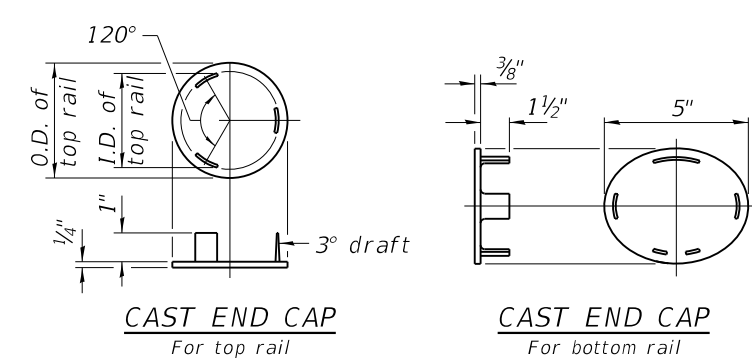
BILL OF MATERIAL
SN 016-2512 (SB)

Item	Unit	Quantity
Concrete Structures	Cu. Yd.	0.8
Reinforcement Bars, Epoxy Coated	Pound	170
Protective Coat	Sq. Yd.	4

BILL OF MATERIAL
SN 016-2513 (NB)

Item	Unit	Quantity
Concrete Structures	Cu. Yd.	0.4
Reinforcement Bars, Epoxy Coated	Pound	90
Protective Coat	Sq. Yd.	2

PROPOSED ELEVATION
Location: SN 016-2512 (SB West Parapet) North Appr. Wingwall
South Appr. Wingwall
SN 016-2513 (NB East Parapet) South Appr. Wingwall
* Epoxy grout v(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



- Notes:**
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 - The cost of the removal, disposal, cutting, and capping of the existing rail elements shall be included in the unit price of Concrete Structures.

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 PLOT DATE: 11/18/2020

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PLOT DATE = 11/18/2020		DATE - 10/15/2020	REVISED -

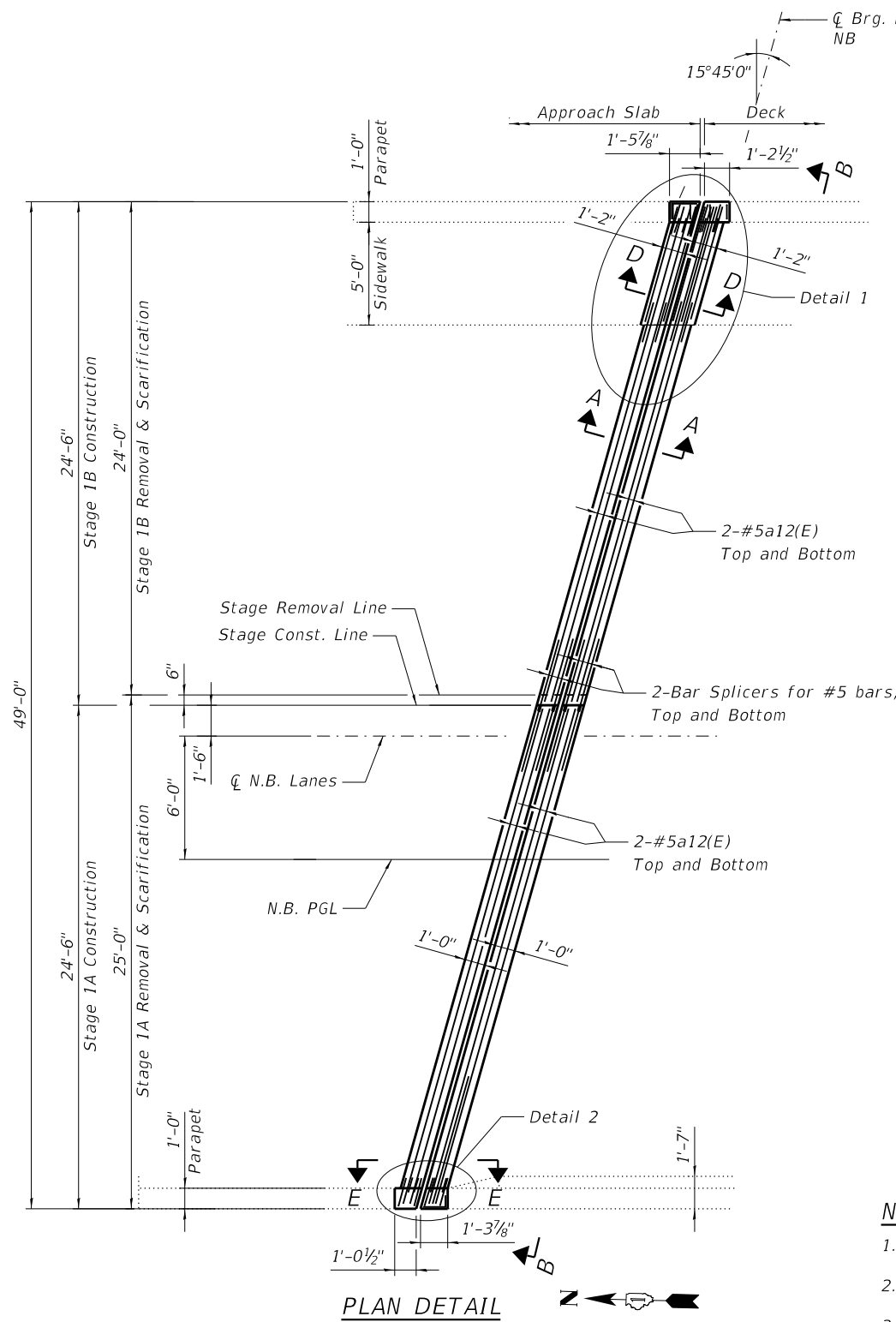
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

SN 016-2512 (SB), SN 016-2513 (NB)
PARAPET EXTENSION

SCALE: SHEET 5-10 OF 5-42 SHEETS STA. TO STA.

F.A.P. RTE. 350	SECTION 2018-124-BR	COUNTY COOK	TOTAL SHEETS 95	SHEET NO. 47
			CONTRACT NO. 62H50	
ILLINOIS FED. AID PROJECT				



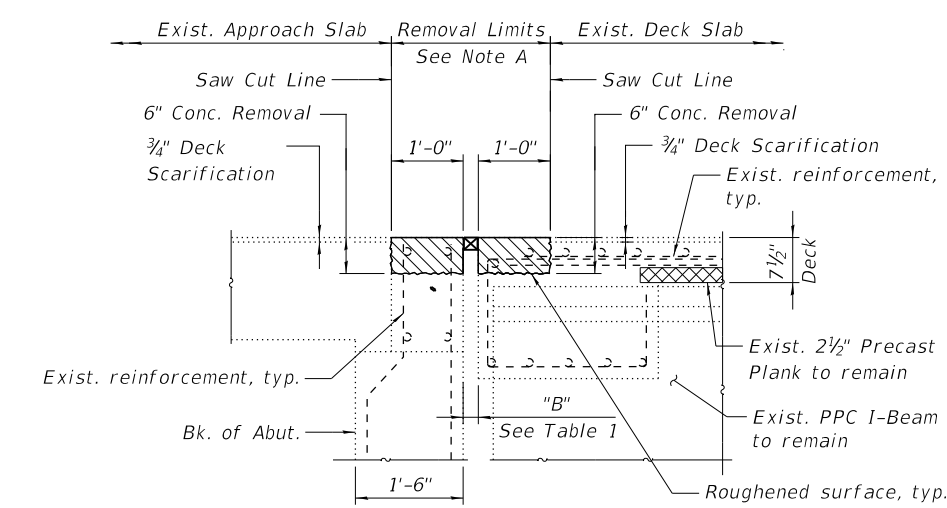


LEGEND:

Concrete Removal

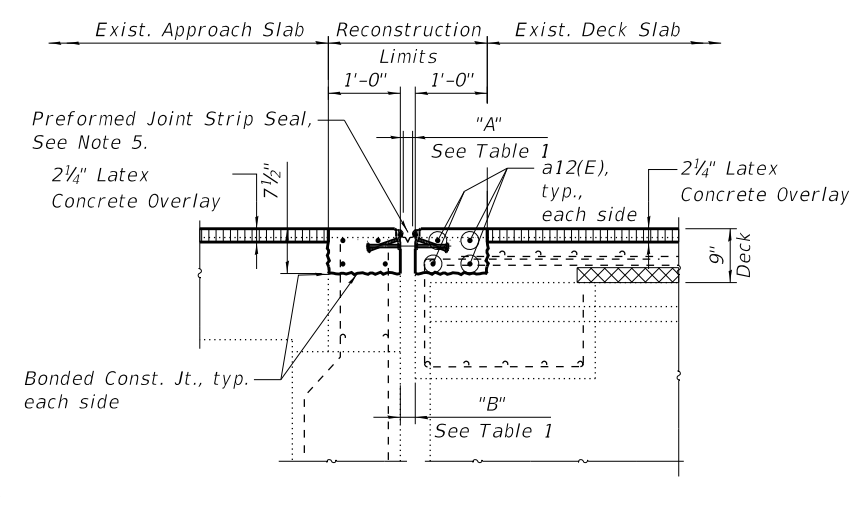
Existing Reinforcement

Proposed Reinforcement



**SECTION A-A
CONCRETE REMOVAL**

Note A:
Remove existing concrete, joint assembly, plates and anchor bolts, including any fast setting concrete patches that were used to replace damaged sections of the existing expansion joint. Any existing expansion joint steel exceeding the 6" removal depth should be cut and left in place. Cost included in Concrete Removal.



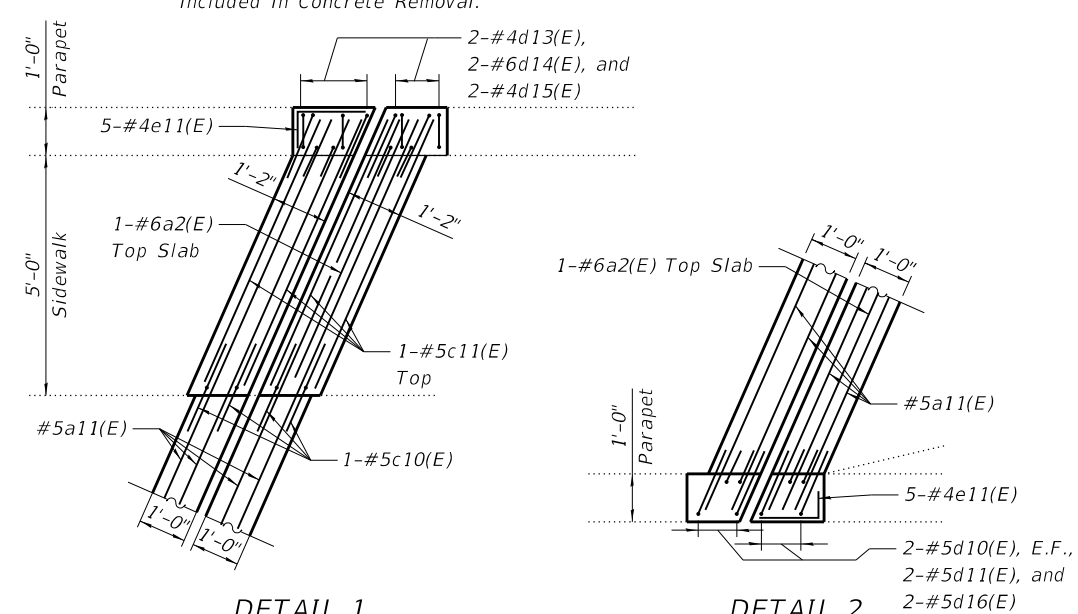
**SECTION A-A
CONCRETE REPLACEMENT**

TABLE 1

	A		B	
	@ 50° F	@ 70° F	@ 50° F	@ 70° F
	2"	1 3/4"	2 1/2"	2 1/4"

BAR LIST

Bar	No.	Size	Length	Shape
a2(E)	2	#6	6'-6"	—
a12(E)	16	#5	24'-11"	—
c10(E)	4	#5	2'-5"	~
c11(E)	4	#5	6'-0"	—
d10(E)	8	#5	3'-0"	┌┐
d11(E)	4	#5	3'-9"	┌┐
d13(E)	4	#4	4'-8"	┌┐
d14(E)	4	#6	3'-9"	┌┐
d15(E)	4	#4	2'-0"	┌┐
d16(E)	4	#5	2'-4"	~
e11(E)	10	#4	1'-8"	┌┐



DETAIL 1

DETAIL 2

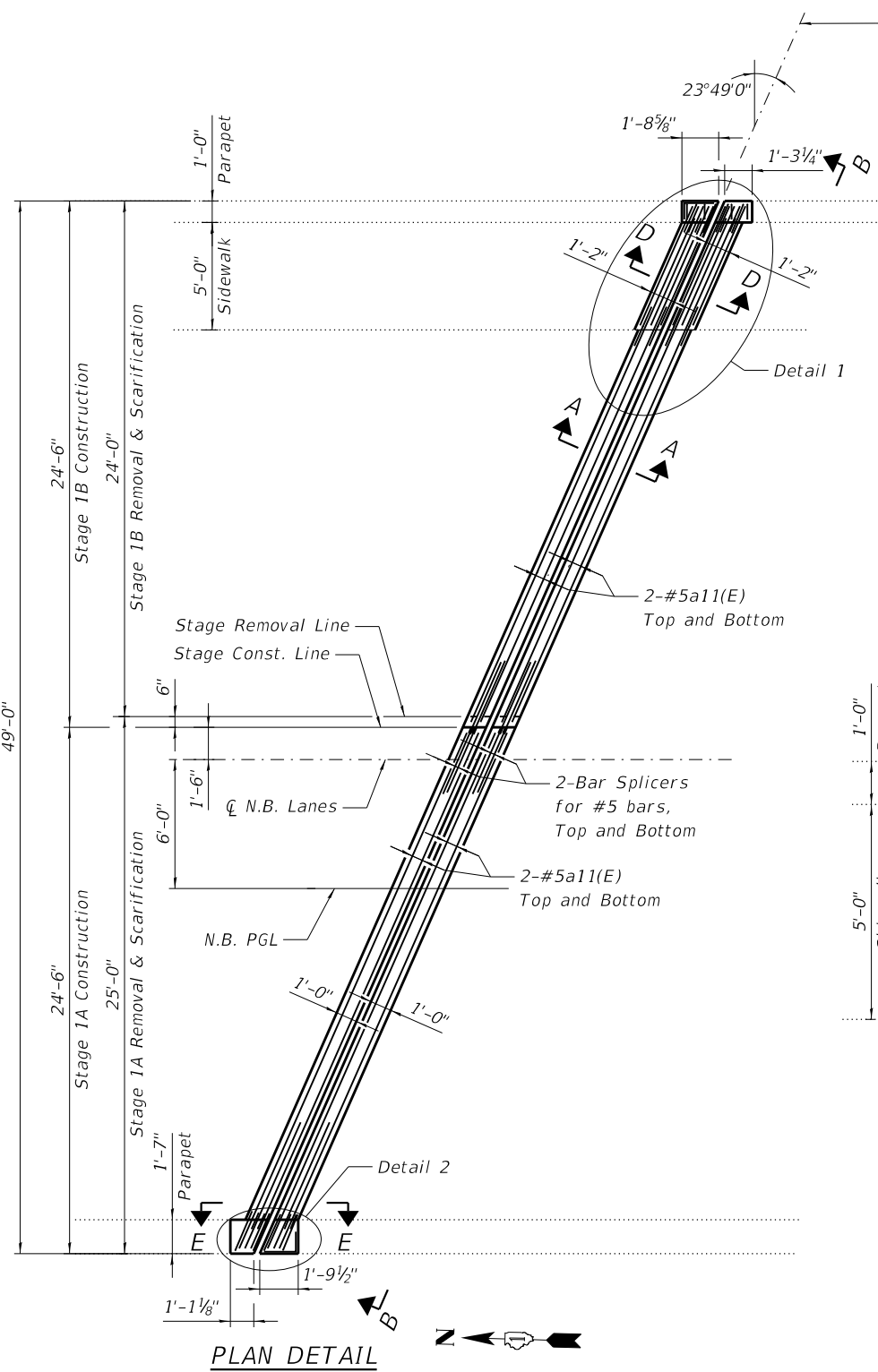
NOTES:

- For removal elevation of joint and removal at parapets, see "Typical Expansion Joint Details" sheet.
- The existing PPC Beams and Existing Precast Planks shall not be damaged. See "General Notes".
- Existing horizontal bars in parapet and existing longitudinal bars in slab and sidewalk shall remain and incorporated in the new construction. Existing vertical bars in the approach slab parapet shall be reused.
- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- For Preformed Joint Strip Seal details see sheet "Preformed Joint Strip Seal 1 thru 3".
- See sheet "Typical Expansion Joint Details" for Sections B-B, D-D, E-E, and bar bending details.

**BILL OF MATERIAL
SN 016-2513 (NB)**

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	2.8
Concrete Superstructure	Cu. Yd.	3.3
Protective Coat	Sq. Yd.	13
Reinforcement Bars, Epoxy Coated	Pound	580
Bar Splicers	Each	8
Preformed Joint Strip Seal	Foot	52

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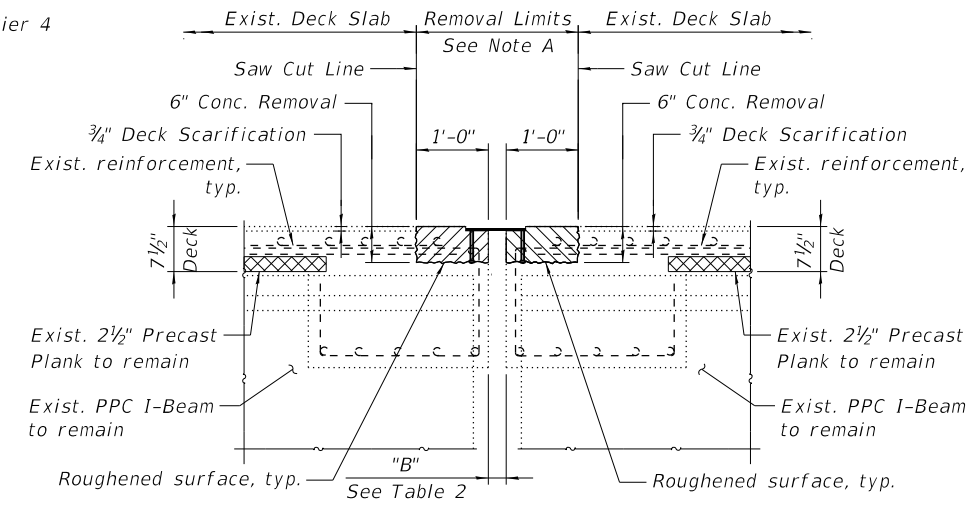


LEGEND:

Concrete Removal

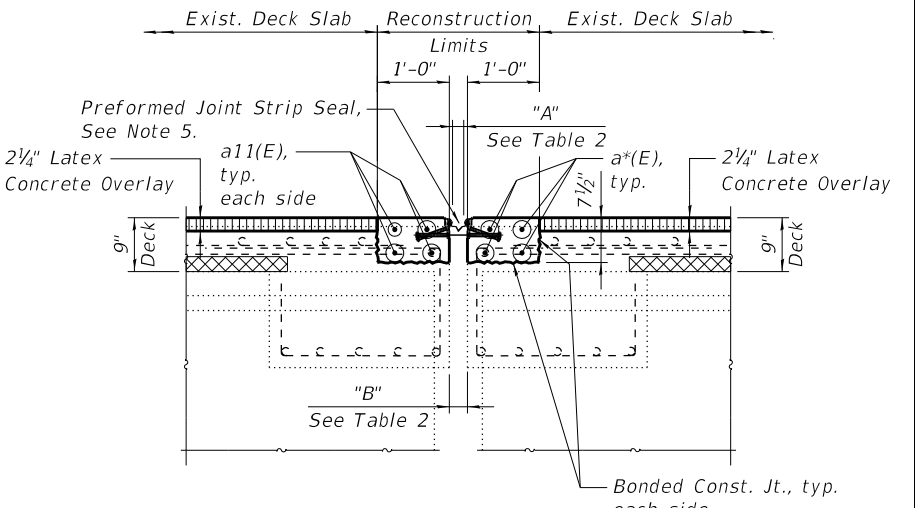
Existing Reinforcement

Proposed Reinforcement



**SECTION A-A
CONCRETE REMOVAL**

Note A:
Remove existing concrete, joint assembly, plates, bars and anchor bolts, including any fast setting concrete patches that were used to replace damaged sections of the existing expansion joint. Any existing expansion joint steel exceeding the 6" removal depth should be cut and left in place. Cost included in Concrete Removal.



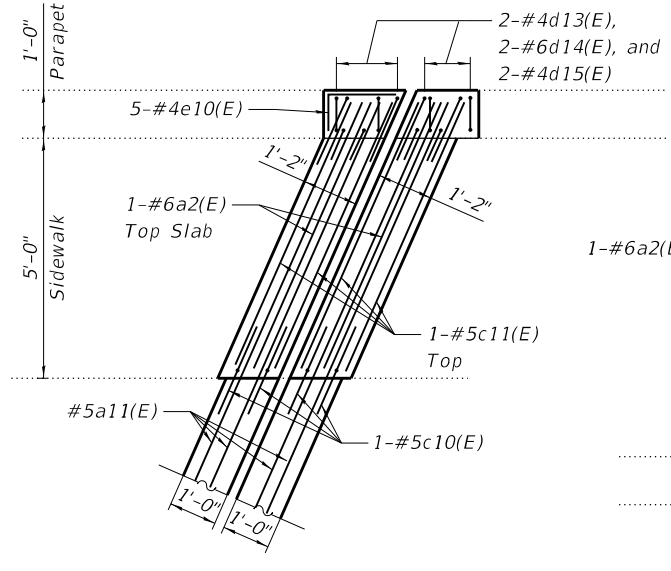
**SECTION A-A
CONCRETE REPLACEMENT**

TABLE 2

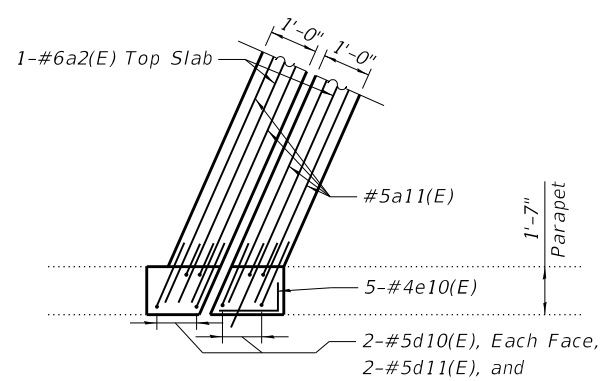
A		B	
@ 50° F	@ 70° F	@ 50° F	@ 70° F
2 1/2"	2"	3"	2 1/2"

BAR LIST

Bar	No.	Size	Length	Shape
a2(E)	4	#6	6'-6"	—
a11(E)	16	#5	26'-1"	—
c10(E)	4	#5	2'-5"	┌
c11(E)	4	#5	6'-0"	—
d10(E)	8	#5	3'-0"	┌
d11(E)	4	#5	3'-9"	┌
d12(E)	4	#5	2'-7"	┌
d13(E)	4	#4	4'-8"	┌
d14(E)	4	#6	3'-9"	┌
d15(E)	4	#4	2'-0"	┌
e10(E)	10	#4	1'-10"	┌



DETAIL 1



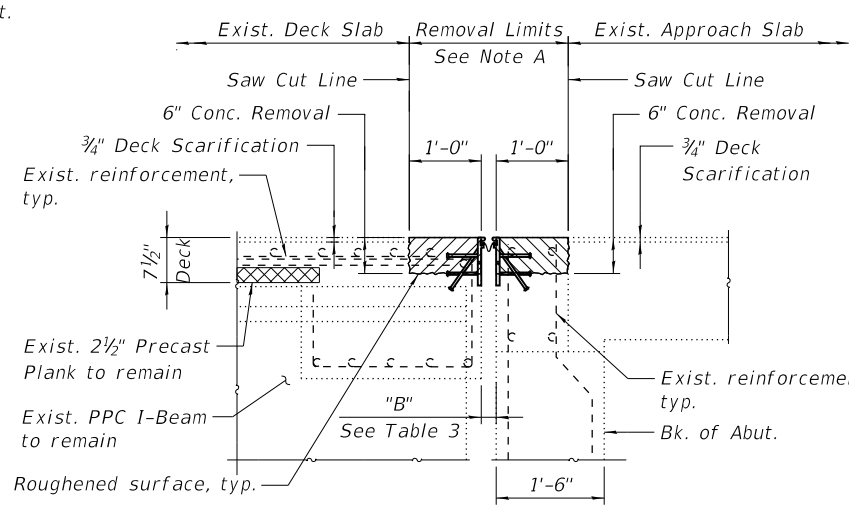
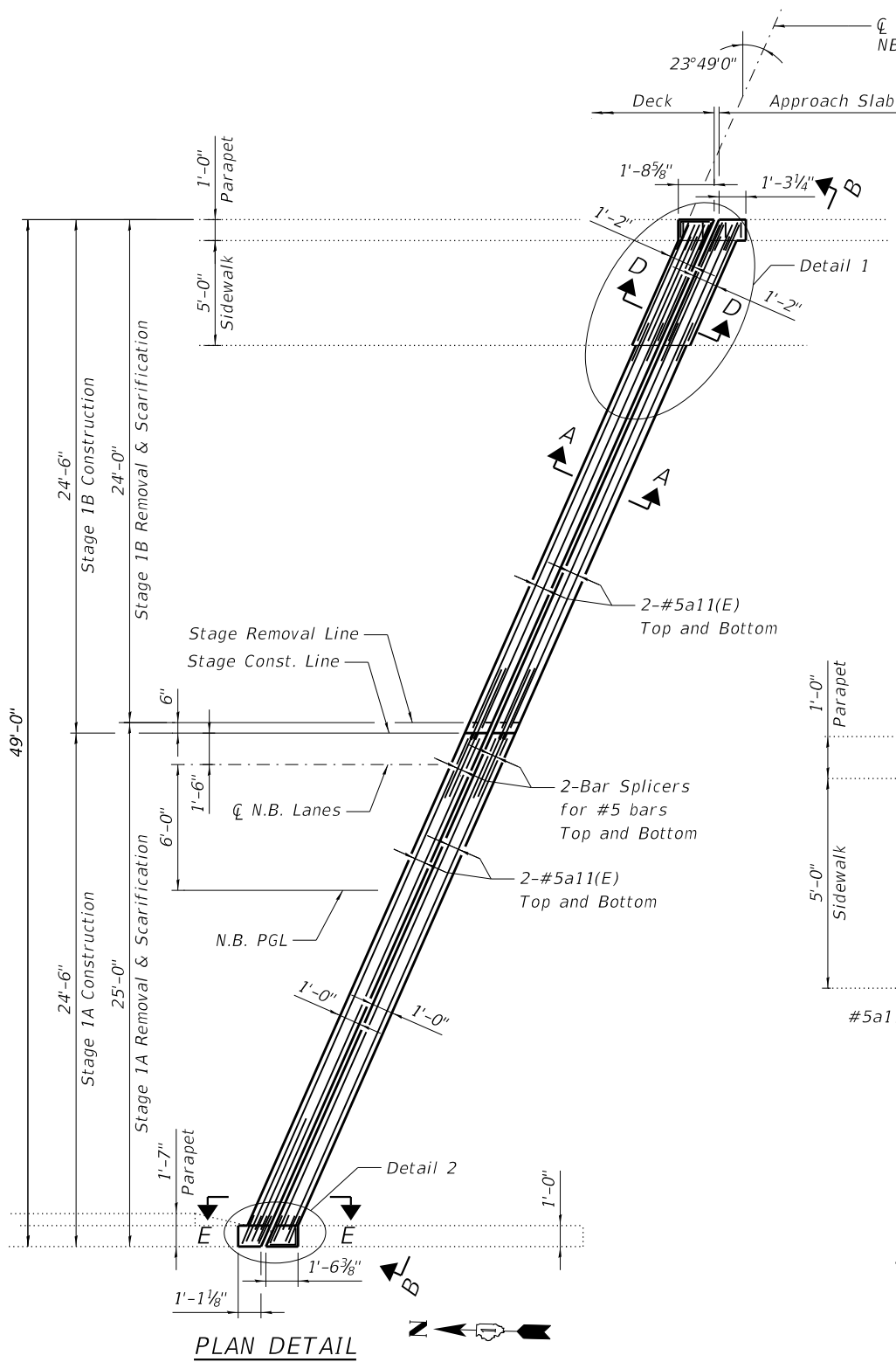
DETAIL 2

NOTES:

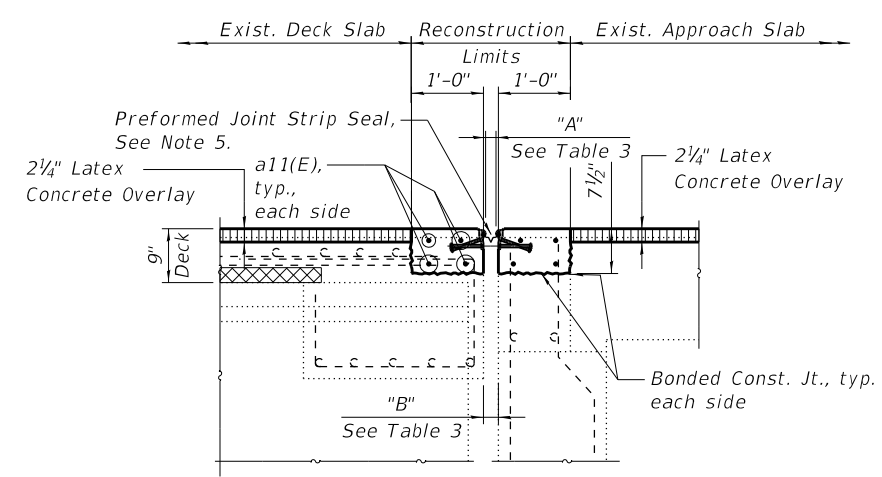
- For removal elevation of joint and removal at parapets, see "Typical Expansion Joint Details" sheet.
- The existing PPC Beams and Existing Precast Planks shall not be damaged. See "General Notes".
- Existing horizontal bars in parapet and existing longitudinal bars in slab and sidewalk shall remain and incorporated in the new construction. Existing vertical bars in the approach slab parapet shall be reused.
- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- For Preformed Joint Strip Seal details see sheet "Preformed Joint Strip Seal 1 thru 3".
- See sheet "Typical Expansion Joint Details" for Sections B-B, D-D, E-E, and bar bending details.

**BILL OF MATERIAL
SN 016-2513 (NB)**

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	2.9
Concrete Superstructure	Cu. Yd.	3.5
Protective Coat	Sq. Yd.	14
Reinforcement Bars, Epoxy Coated	Pound	620
Bar Splicers	Each	8
Preformed Joint Strip Seal	Foot	52



SECTION A-A
CONCRETE REMOVAL



SECTION A-A
CONCRETE REPLACEMENT

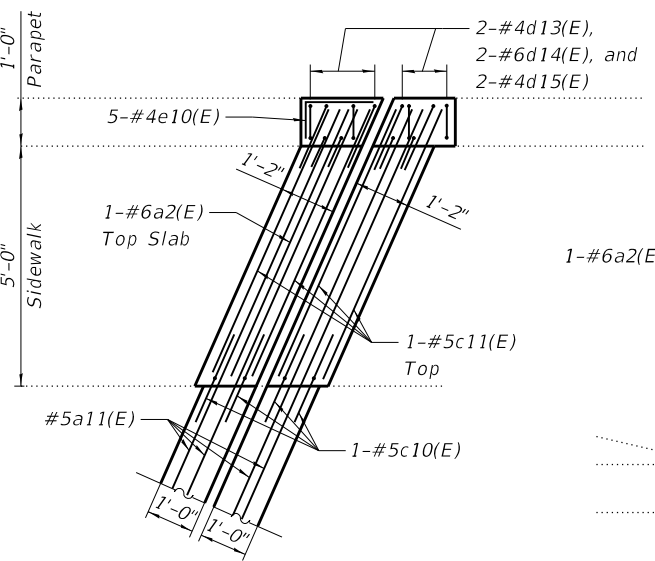
Note A:
Remove existing concrete, joint assembly, plates, bars and anchor bolts, including any fast setting concrete patches that were used to replace damaged sections of the existing expansion joint. Any existing expansion joint steel exceeding the 6" removal depth should be cut and left in place. Cost included in Concrete Removal.

TABLE 3

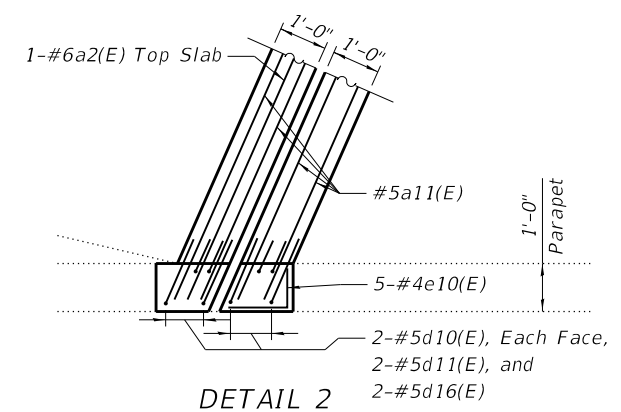
A	B	
	@ 50° F	@ 70° F
2 1/4"	2"	2 1/2"
2 1/4"	2"	2 1/4"

BAR LIST

Bar	No.	Size	Length	Shape
a2(E)	2	#6	6'-6"	—
a11(E)	16	#5	26'-1"	—
c10(E)	4	#5	2'-5"	⌒
c11(E)	4	#5	6'-0"	—
d10(E)	8	#5	3'-0"	⌒
d11(E)	4	#5	3'-9"	⌒
d13(E)	4	#4	4'-8"	⌒
d14(E)	4	#6	3'-9"	⌒
d15(E)	4	#4	2'-0"	⌒
d16(E)	4	#5	2'-4"	⌒
e10(E)	10	#4	1'-10"	⌒



DETAIL 1



DETAIL 2

NOTES:

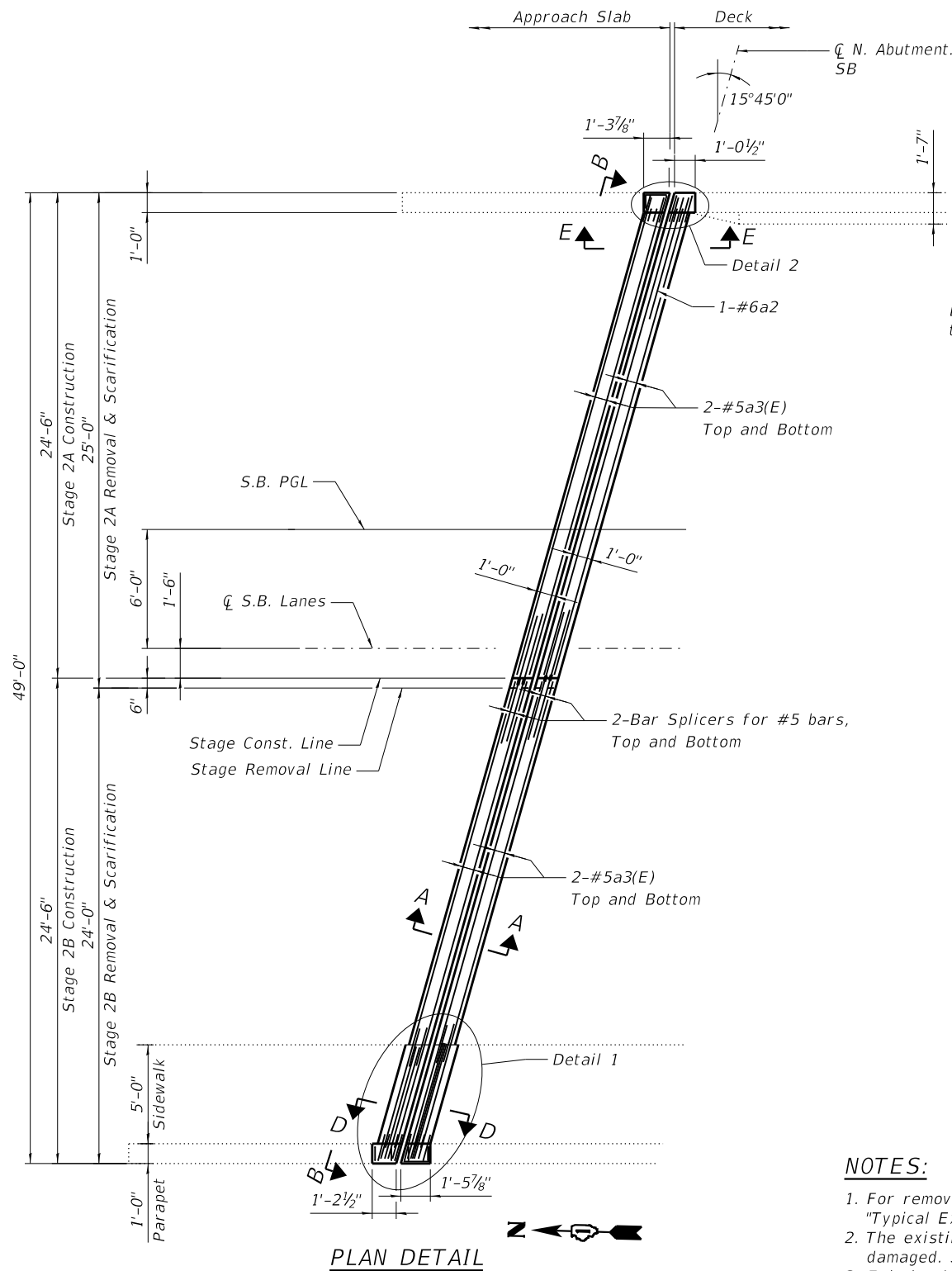
1. For removal elevation of joint and removal at parapets, see "Typical Expansion Joint Details" sheet.
2. The existing PPC Beams and Existing Precast Planks shall not be damaged. See "General Notes".
3. Existing horizontal bars in parapet and existing longitudinal bars in slab and sidewalk shall remain and incorporated in the new construction. Existing vertical bars in the approach slab parapet shall be reused.
4. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
5. For Preformed Joint Strip Seal details see sheet "Preformed Joint Strip Seal 1 thru 3".
6. See sheet "Typical Expansion Joint Details" for Sections B-B, D-D, E-E, and bar bending details.

LEGEND:

- Concrete Removal
- Existing Reinforcement
- Proposed Reinforcement

**BILL OF MATERIAL
SN 016-2513 (NB)**

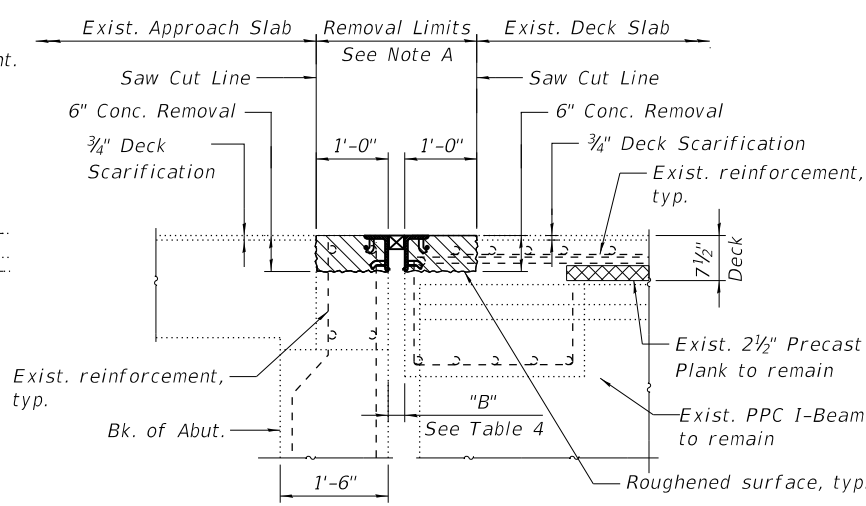
Item	Unit	Quantity
Concrete Removal	Cu. Yd.	2.9
Concrete Superstructure	Cu. Yd.	3.5
Protective Coat	Sq. Yd.	14
Reinforcement Bars, Epoxy Coated	Pound	600
Bar Splicers	Each	8
Preformed Joint Strip Seal	Foot	53



PLAN DETAIL

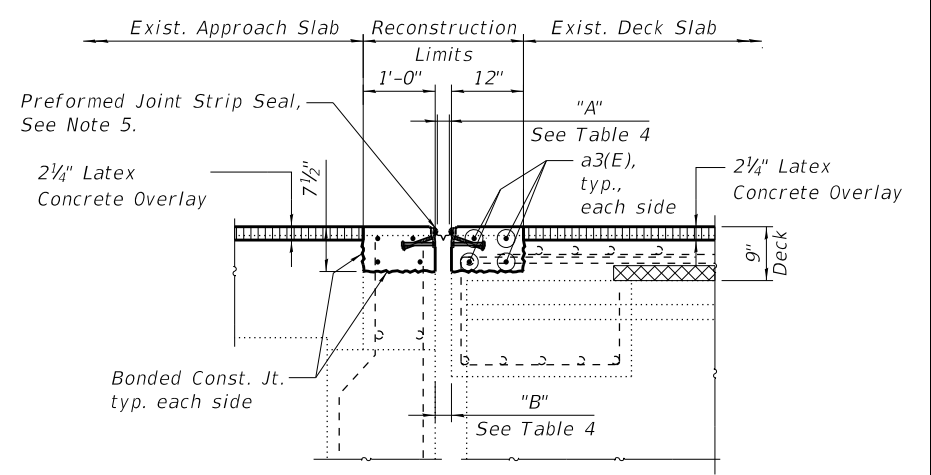
LEGEND:

- Concrete Removal
- Existing Reinforcement
- Proposed Reinforcement



**SECTION A-A
CONCRETE REMOVAL**

Note A:
Remove existing concrete, joint assembly, plates, bars and anchor bolts, including any fast setting concrete patches that were used to replace damaged sections of the existing expansion joint. Any existing expansion joint steel exceeding the 6" removal depth should be cut and left in place. Cost included in Concrete Removal.



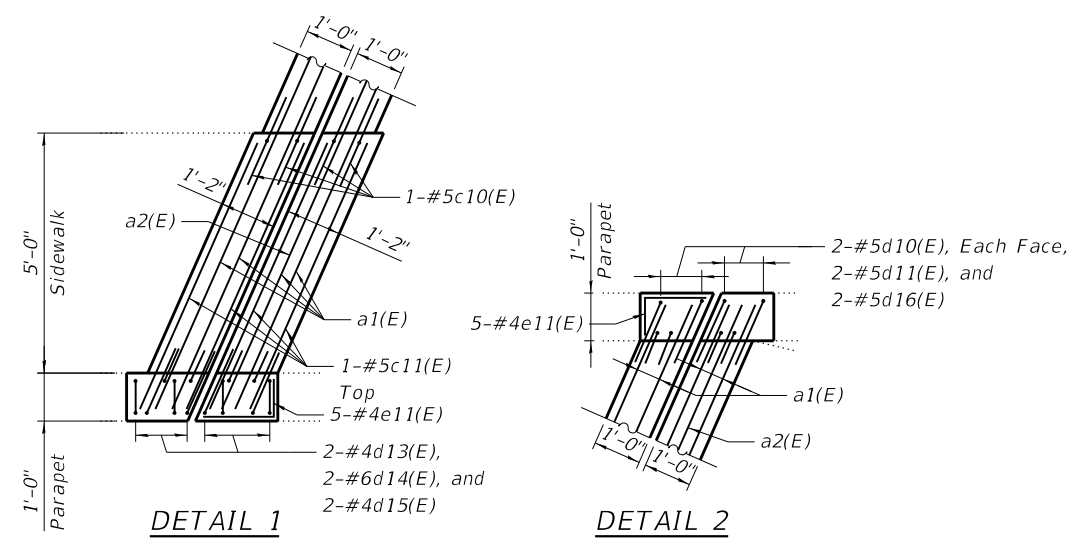
**SECTION A-A
CONCRETE REPLACEMENT**

TABLE 4

	A		B	
	@ 50° F	@ 70° F	@ 50° F	@ 70° F
Seal	2 1/4"	2"	2 3/4"	2 1/2"

BAR LIST

Bar	No.	Size	Length	Shape
a2(E)	2	#6	6'-6"	—
a3(E)	16	#5	24'-11"	—
c10(E)	4	#5	2'-5"	┌
c11(E)	4	#5	6'-0"	—
d10(E)	8	#5	3'-0"	┌
d11(E)	4	#5	3'-9"	┌
d13(E)	4	#4	4'-8"	┌
d14(E)	4	#6	3'-9"	┌
d15(E)	4	#4	2'-0"	┌
d16(E)	4	#5	2'-4"	┌
e11(E)	10	#4	1'-8"	┌



DETAIL 1

DETAIL 2

NOTES:

- For removal elevation of joint and removal at parapets, see "Typical Expansion Joint Details" sheet.
- The existing PPC Beams and Existing Precast Planks shall not be damaged. See "General Notes".
- Existing horizontal bars in parapet and existing longitudinal bars in slab and sidewalk shall remain and incorporated in the new construction. Existing vertical bars in the approach slab parapet shall be reused.
- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- For Preformed Joint Strip Seal details see sheet "Preformed Joint Strip Seal 1 thru 3".
- See sheet "Typical Expansion Joint Details" for Sections B-B, D-D, E-E, and bar bending details.

**BILL OF MATERIAL
SN 016-2512 (SB)**

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	2.8
Concrete Superstructure	Cu. Yd.	3.3
Protective Coat	Sq. Yd.	13
Reinforcement Bars, Epoxy Coated	Pound	580
Bar Splicers	Each	8
Preformed Joint Strip Seal	Foot	50

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 USER: garza.karhoff@garza-karhoff.com
 PROJECT: 09105515-SB-Expansion Joint, North Abument

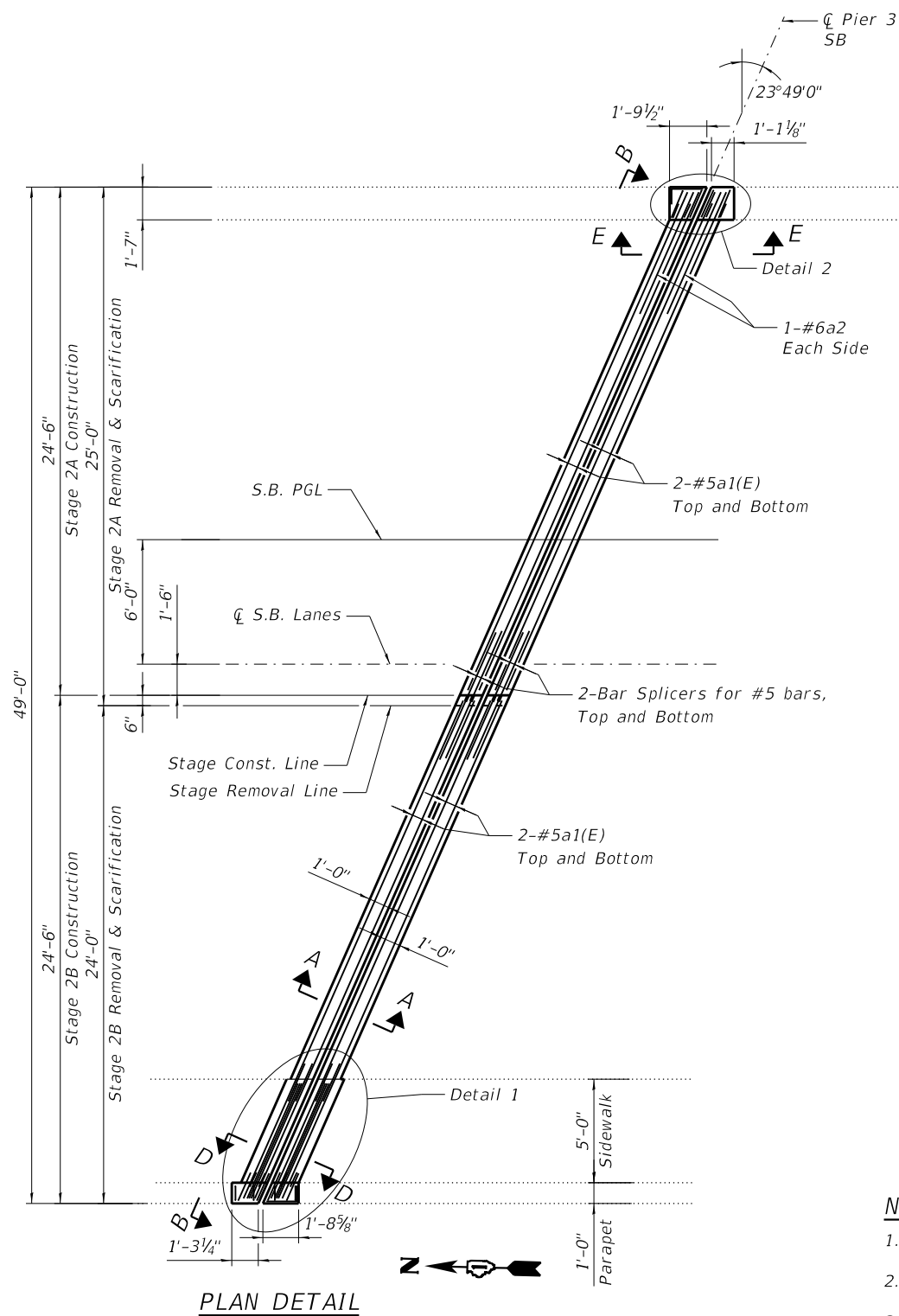
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

**SN 016-2512 (SB), SN 016-2513 (NB)
EXPANSION JOINT, SB NORTH ABUMENT**

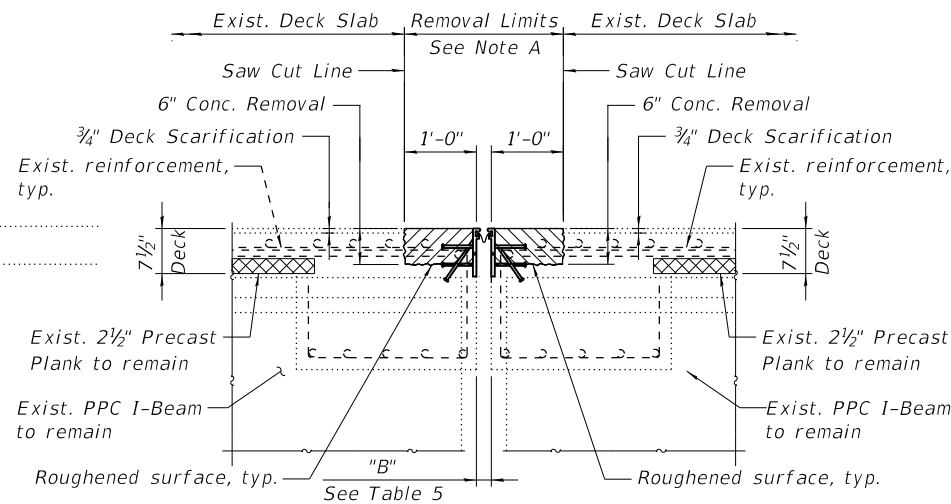
SCALE: SHEET 5-14 OF 5-42 SHEETS STA. TO STA.

F.A.P. RTE. 350	SECTION 2018-124-BR	COUNTY COOK	TOTAL SHEETS 95	SHEET NO. 51
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				



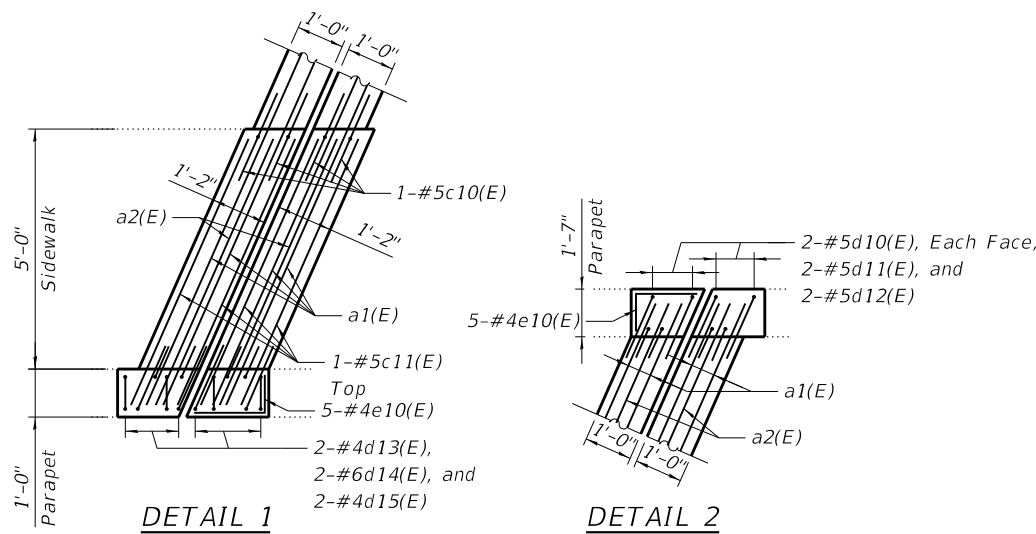
LEGEND:

- Concrete Removal
- Existing Reinforcement
- Proposed Reinforcement



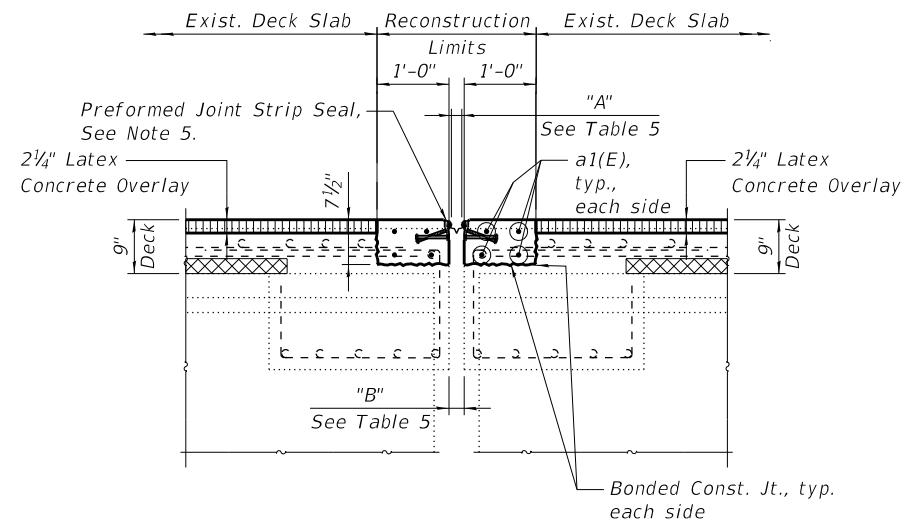
**SECTION A-A
CONCRETE REMOVAL**

Note A:
Remove existing concrete, joint assembly, plates, bars and anchor bolts, including any fast setting concrete patches that were used to replace damaged sections of the existing expansion joint. Any existing expansion joint steel exceeding the 6" removal depth should be cut and left in place. Cost included in Concrete Removal.



NOTES:

1. For removal elevation of joint and removal at parapets, see "Typical Expansion Joint Details" sheet.
2. The existing PPC Beams and Existing Precast Planks shall not be damaged. See "General Notes".
3. Existing horizontal bars in parapet and existing longitudinal bars in slab and sidewalk shall remain and incorporated in the new construction. Existing vertical bars in the approach slab parapet shall be reused.
4. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
5. For Preformed Joint Strip Seal details see sheet "Preformed Joint Strip Seal 1 thru 3".
6. See sheet "Typical Expansion Joint Details" for Sections B-B, D-D, E-E, and bar bending details.



**SECTION A-A
CONCRETE REPLACEMENT**

TABLE 5

A		B	
@ 50° F	@ 70° F	@ 50° F	@ 70° F
2"	1 3/4"	2 1/2"	2 1/4"

BAR LIST

Bar	No.	Size	Length	Shape
a1(E)	16	#5	26'-1"	—
a2(E)	2	#6	6'-6"	—
c10(E)	4	#5	2'-5"	┌
c11(E)	4	#5	6'-0"	—
d10(E)	8	#5	3'-0"	┌
d11(E)	4	#5	3'-9"	┌
d12(E)	4	#5	2'-7"	┌
d13(E)	4	#4	4'-8"	┌
d14(E)	4	#6	3'-9"	┌
d15(E)	4	#4	2'-0"	┌
e10(E)	10	#4	1'-10"	—

**BILL OF MATERIAL
SN 016-2512 (SB)**

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	2.9
Concrete Superstructure	Cu. Yd.	3.5
Protective Coat	Sq. Yd.	13
Reinforcement Bars, Epoxy Coated	Pound	620
Bar Splicers	Each	8
Preformed Joint Strip Seal	Foot	52

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FILE NAME =
 USER NAME = c-friedmana
 DESIGNED - LS
 DRAWN - AMF
 PLOT SCALE = 8:0.0000 " = 1/8" / in.
 CHECKED - BGK
 PLOT DATE = 11/18/2020
 DATE - 10/15/2020

DESIGNED - LS
 DRAWN - AMF
 CHECKED - BGK
 DATE - 10/15/2020

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

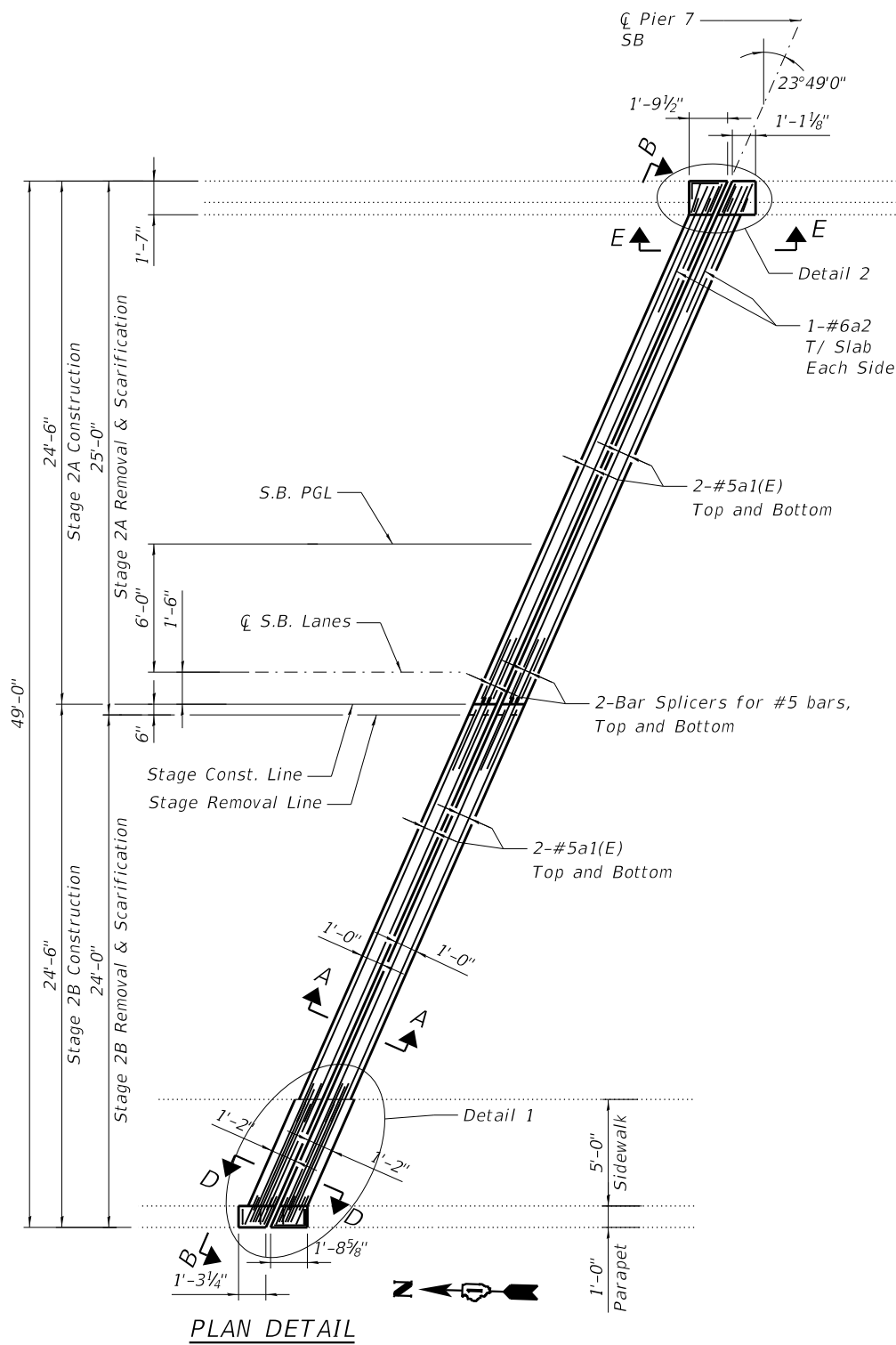
SN 016-2512 (SB), SN 016-2513 (NB)
 EXPANSION JOINT, SB PIER 3

SCALE: SHEET 5-15 OF 5-42 SHEETS STA. TO STA.

F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 350 2018-124-BR COOK 95 52
 CONTRACT NO. 62H50

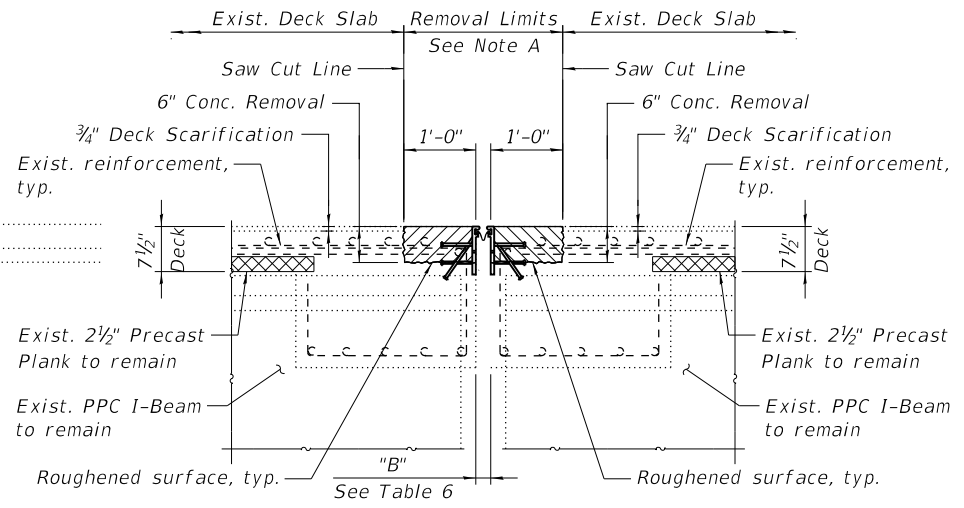
ILLINOIS FED. AID PROJECT

ILLINOIS FED. AID PROJECT



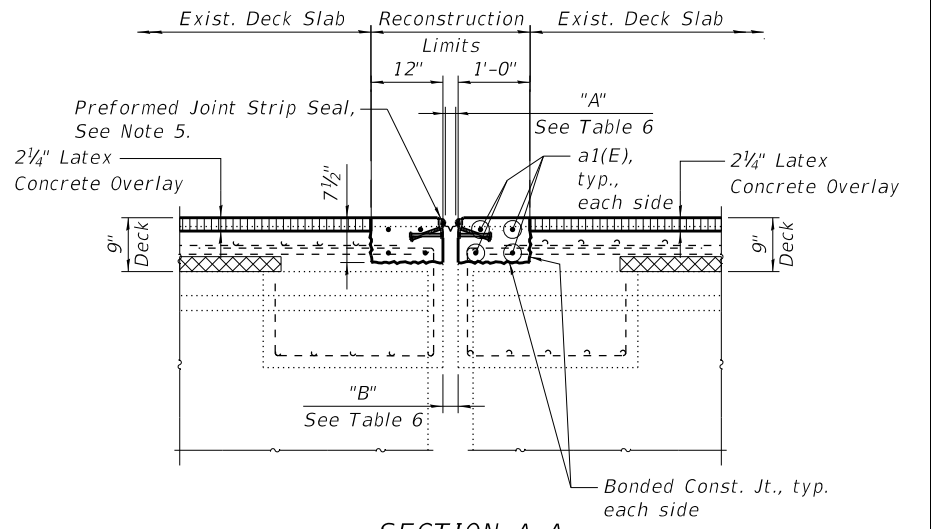
LEGEND:

- Concrete Removal
- Existing Reinforcement
- Proposed Reinforcement



**SECTION A-A
CONCRETE REMOVAL**

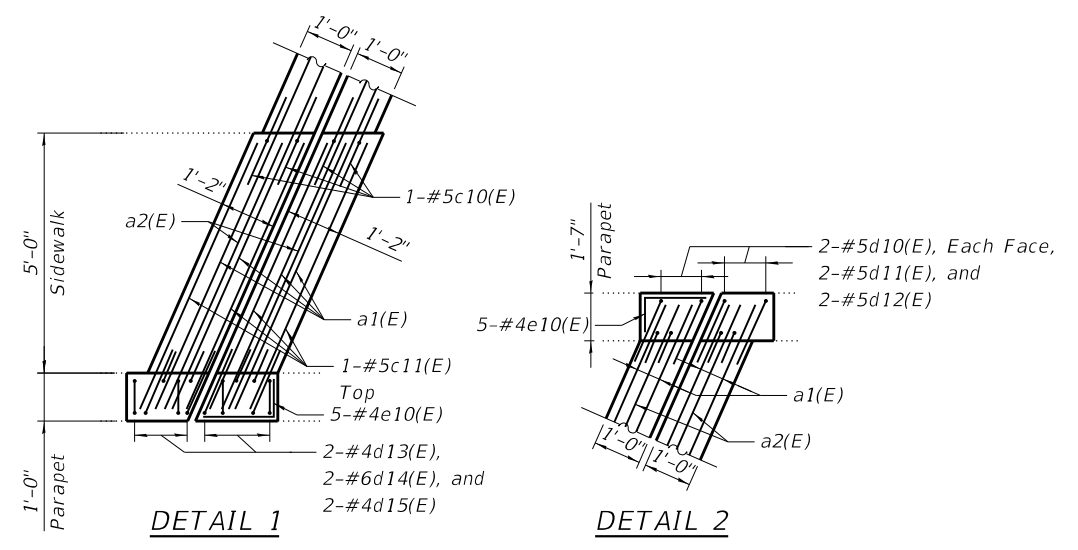
Note A:
Remove existing concrete, joint assembly, plates and anchor bolts, including any fast setting concrete patches that were used to replace damaged sections of the existing expansion joint. Any existing expansion joint steel exceeding the 6" removal depth should be cut and left in place. Cost included in Concrete Removal.



**SECTION A-A
CONCRETE REPLACEMENT**

TABLE 6

A	B	
	@ 50° F	@ 70° F
2"	1 3/4"	2 1/2"



BAR LIST

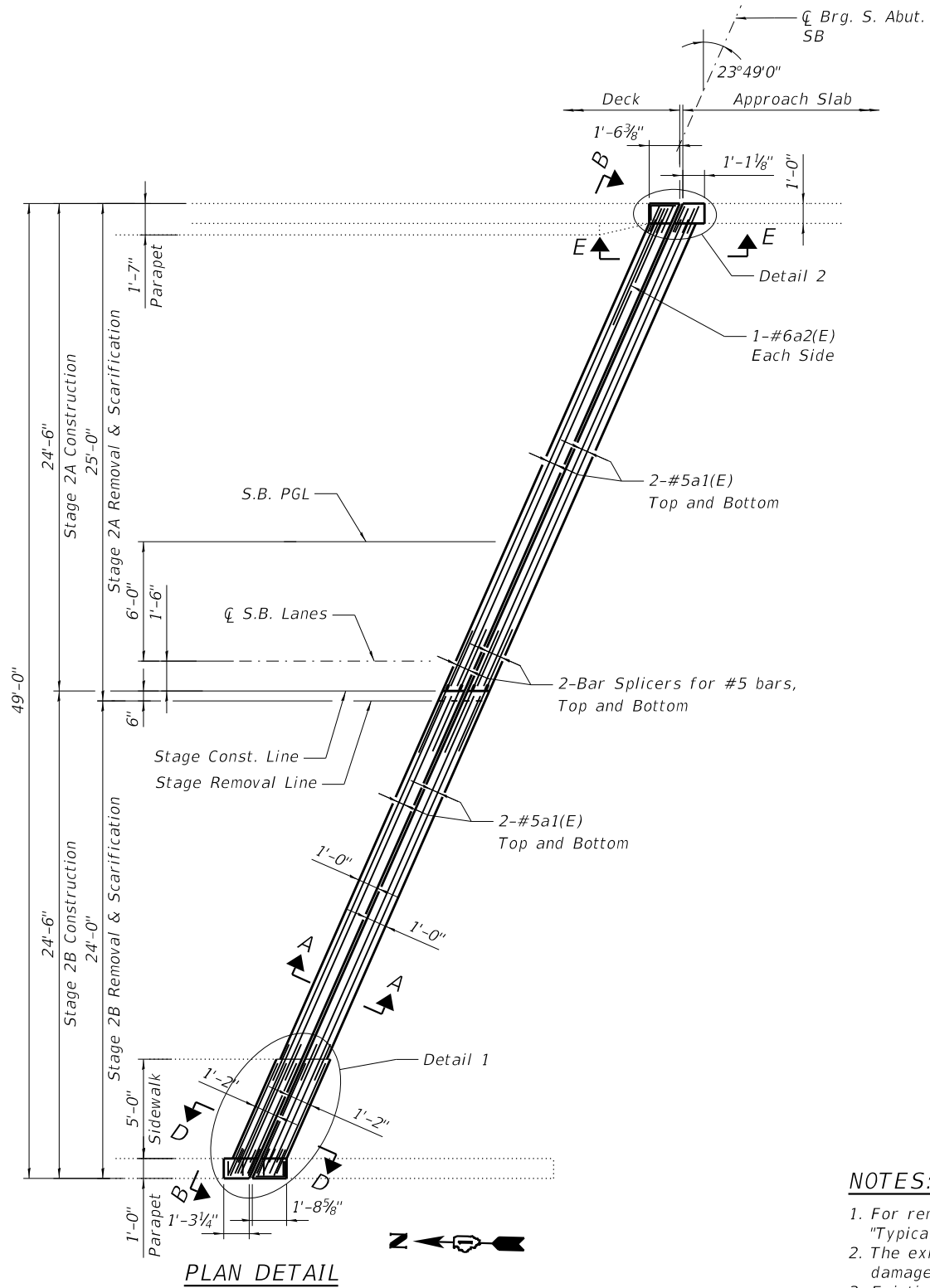
Bar	No.	Size	Length	Shape
a1(E)	16	#5	26'-1"	—
a2(E)	2	#6	6'-6"	—
c10(E)	4	#5	2'-5"	┌
c11(E)	4	#5	6'-0"	—
d10(E)	8	#5	3'-0"	┌
d11(E)	4	#5	3'-9"	┌
d12(E)	4	#5	2'-7"	┌
d13(E)	4	#4	4'-8"	┌
d14(E)	4	#6	3'-9"	┌
d15(E)	4	#4	2'-0"	┌
e10(E)	10	#4	1'-10"	┌

NOTES:

- For removal elevation of joint and removal at parapets, see "Typical Expansion Joint Details" sheet.
- The existing PPC Beams and Existing Precast Planks shall not be damaged. See "General Notes".
- Existing horizontal bars in parapet and existing longitudinal bars in slab and sidewalk shall remain and incorporated in the new construction. Existing vertical bars in the approach slab parapet shall be reused.
- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- For Preformed Joint Strip Seal details see sheet "Preformed Joint Strip Seal 1 thru 3".
- See sheet "Typical Expansion Joint Details" for Sections B-B, D-D, E-E, and bar bending details.

**BILL OF MATERIAL
SN 016-2512 (SB)**

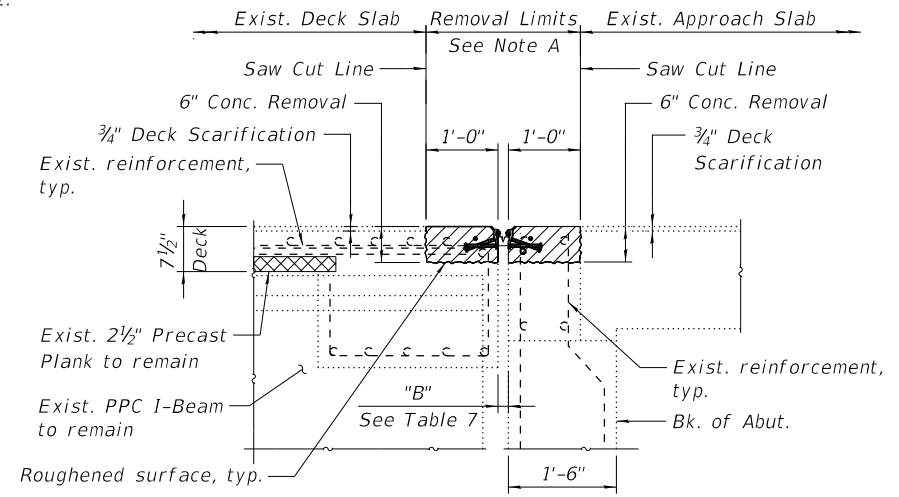
Item	Unit	Quantity
Concrete Removal	Cu. Yd.	2.9
Concrete Superstructure	Cu. Yd.	3.5
Protective Coat	Sq. Yd.	13
Reinforcement Bars, Epoxy Coated	Pound	620
Bar Splicers	Each	8
Preformed Joint Strip Seal	Foot	52



PLAN DETAIL

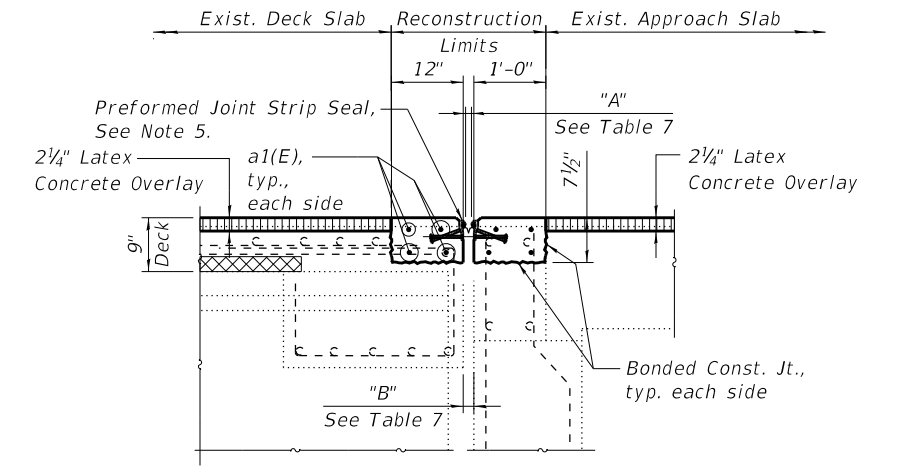
LEGEND:

- Concrete Removal
- Existing Reinforcement
- Proposed Reinforcement



**SECTION A-A
CONCRETE REMOVAL**

Note A:
Remove existing concrete, joint assembly, plates and anchor bolts, including any fast setting concrete patches that were used to replace damaged sections of the existing expansion joint. Any existing expansion joint steel exceeding the 6" removal depth should be cut and left in place. Cost included in Concrete Removal.



**SECTION A-A
CONCRETE REPLACEMENT**

TABLE 7

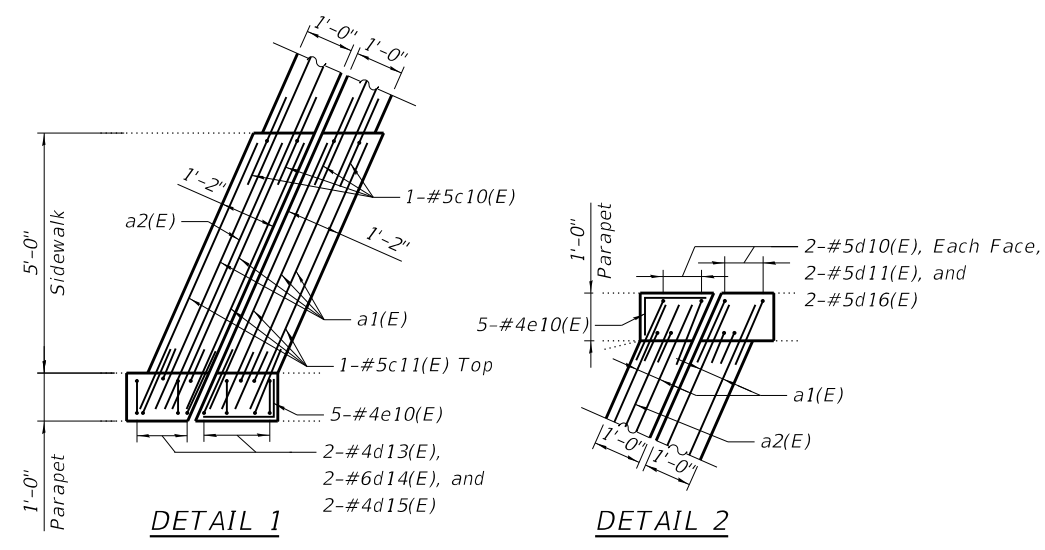
	A		B	
	@ 50° F	@ 70° F	@ 50° F	@ 70° F
	1 1/2"	1 1/4"	1 3/4"	1 1/2"

BAR LIST

Bar	No.	Size	Length	Shape
a1(E)	16	#5	26'-1"	—
a2(E)	2	#6	6'-6"	—
c10(E)	4	#5	2'-5"	L
c11(E)	4	#5	6'-0"	—
d10(E)	8	#5	3'-0"	—
d11(E)	4	#5	3'-9"	L
d13(E)	4	#4	4'-8"	L
d14(E)	4	#6	3'-9"	—
d15(E)	4	#4	2'-0"	—
d16(E)	4	#5	2'-4"	L
e10(E)	10	#4	1'-10"	—

**BILL OF MATERIAL
SN 016-2512 (SB)**

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	2.9
Concrete Superstructure	Cu. Yd.	3.5
Protective Coat	Sq. Yd.	13
Reinforcement Bars, Epoxy Coated	Pound	600
Bar Splicers	Each	8
Preformed Joint Strip Seal	Foot	53



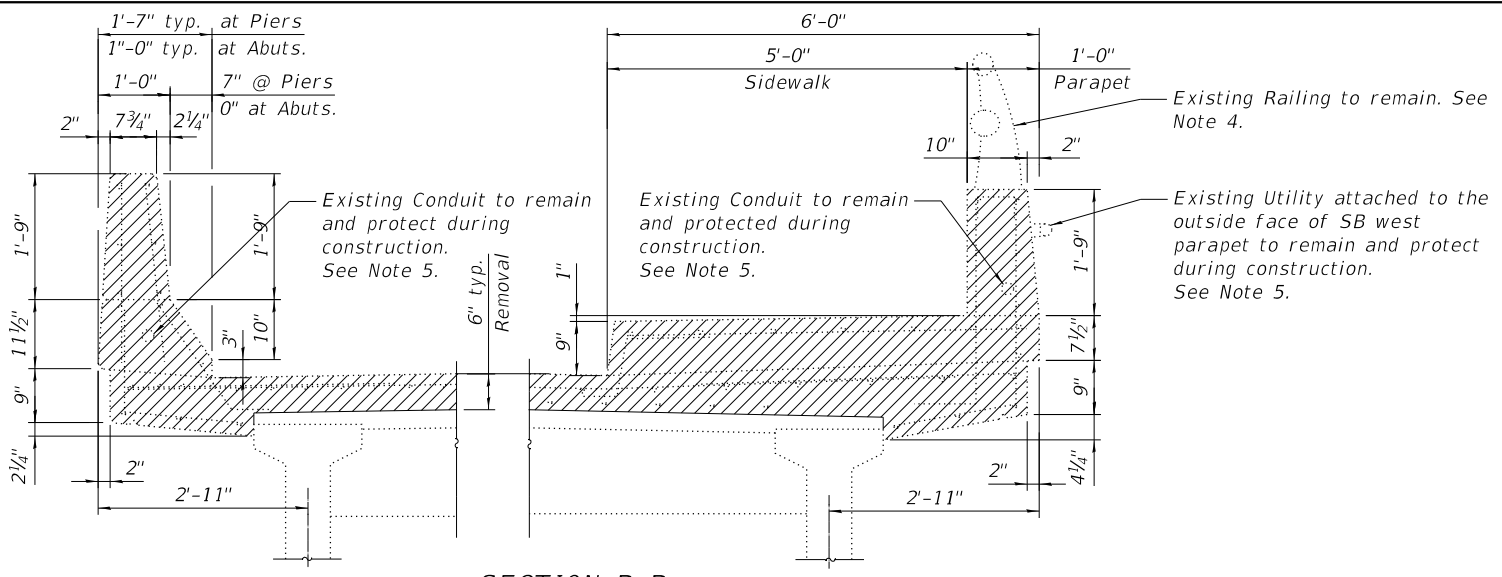
DETAIL 1

DETAIL 2

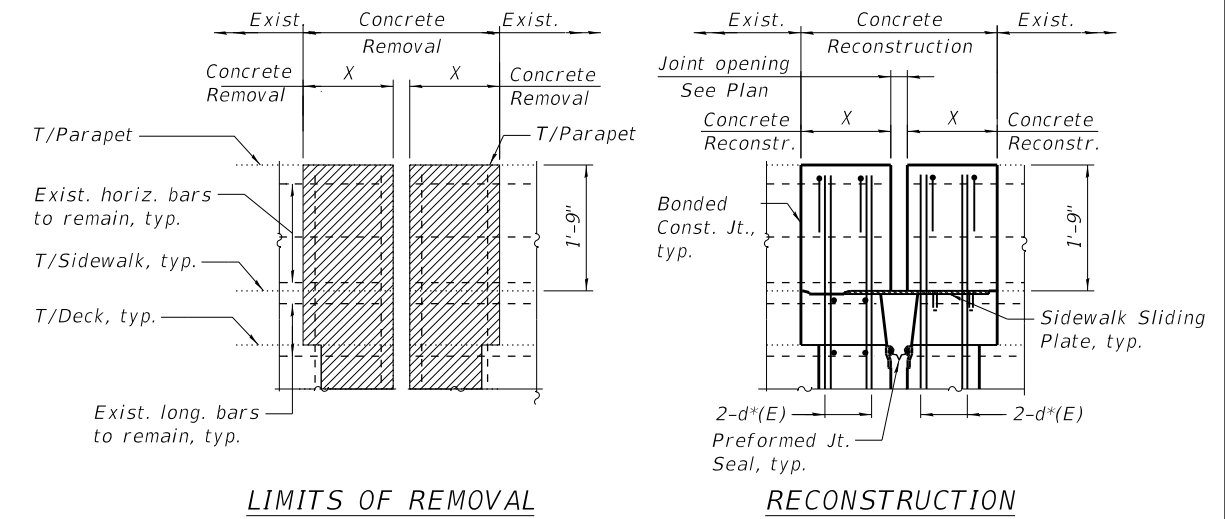
NOTES:

- For removal elevation of joint and removal at parapets, see "Typical Expansion Joint Details" sheet.
- The existing PPC Beams and Existing Precast Planks shall not be damaged. See "General Notes".
- Existing horizontal bars in parapet and existing longitudinal bars in slab and sidewalk shall remain and incorporated in the new construction. Existing vertical bars in the approach slab parapet shall be reused.
- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- For Preformed Joint Strip Seal details see sheet "Preformed Joint Strip Seal 1 thru 3".
- See sheet "Typical Expansion Joint Details" for Sections B-B, D-D, E-E, and bar bending details.

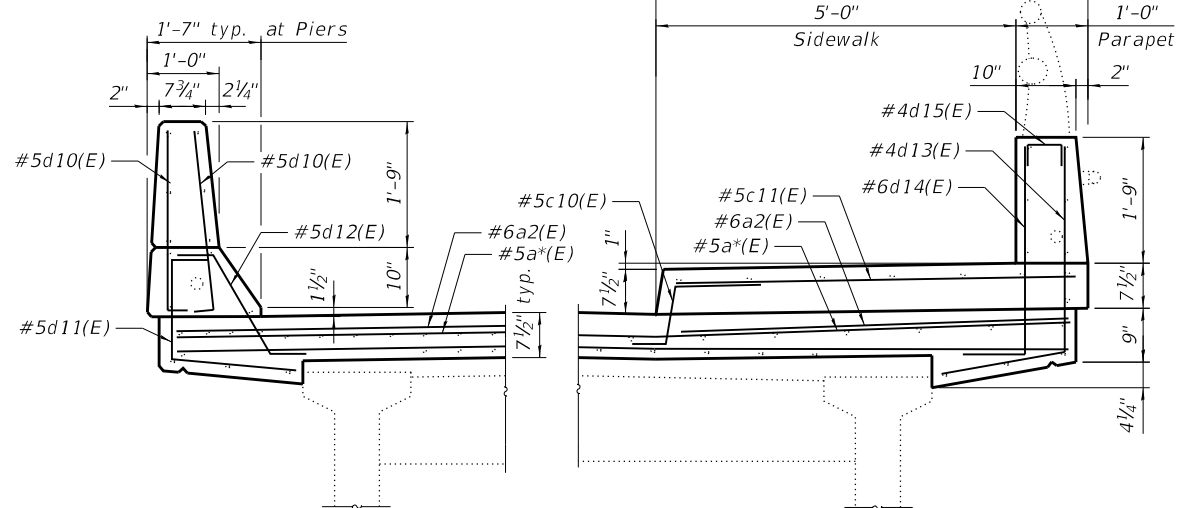
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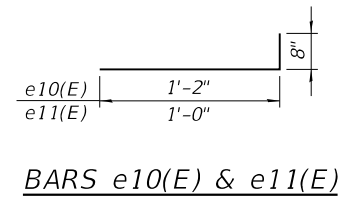
SECTION B-B
TYPICAL REMOVAL AT PIER EXP. JOINTS
 Dimensions shown perpendicular to PGL



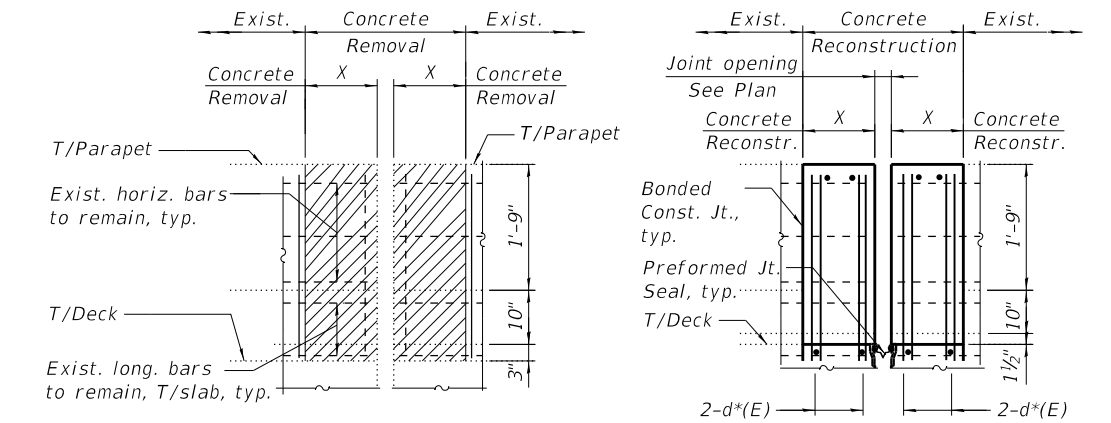
LIMITS OF REMOVAL **SECTION D-D**
RECONSTRUCTION
 For dimension "X" see Expansion Joint Plans
 Parapet Railing not shown for clarity. See Note 4.



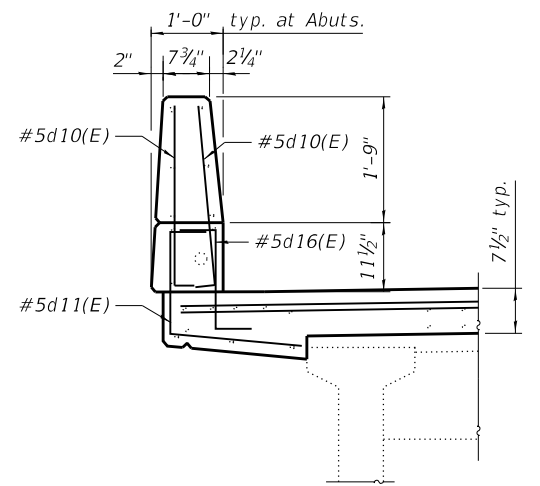
SECTION B-B
TYPICAL RECONSTRUCTION AT PIER EXP. JOINTS
 Dimensions shown perpendicular to PGL



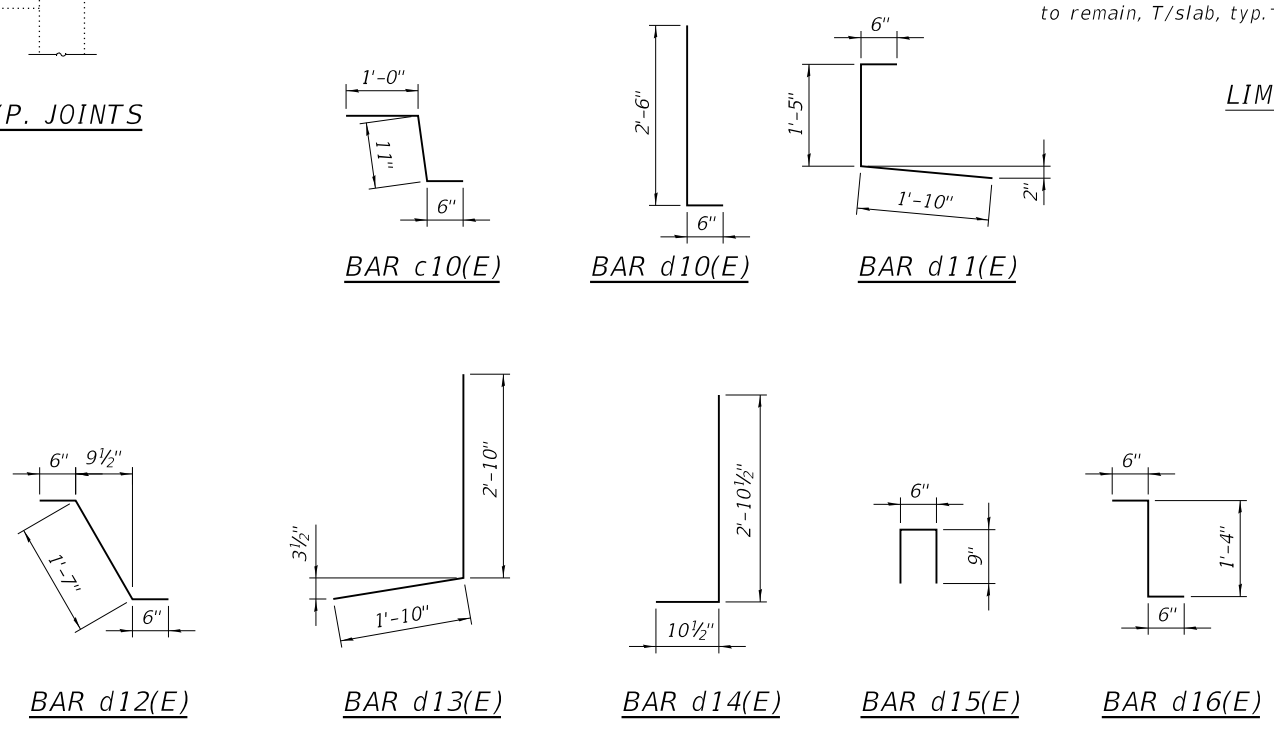
BARS e10(E) & e11(E)



LIMITS OF REMOVAL **SECTION E-E**
RECONSTRUCTION
 For dimension "X" see Expansion Joint Plans



SECTION B-B
TYPICAL RECONSTRUCTION AT ABUTMENT EXP. JOINTS

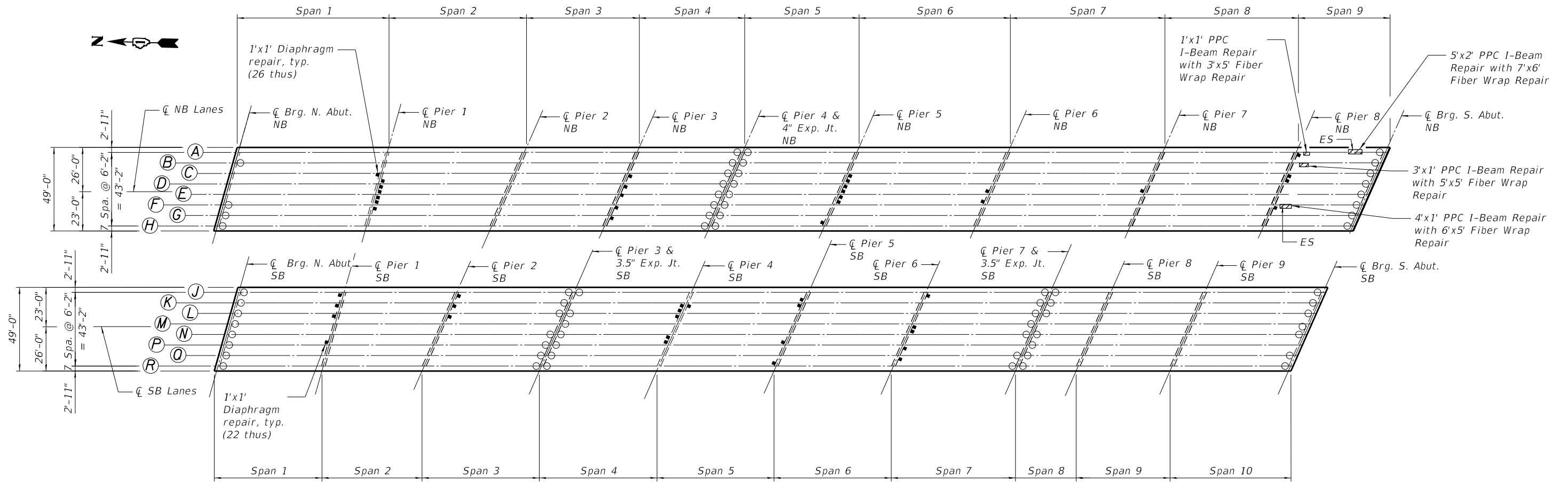


LEGEND:
 Concrete Removal

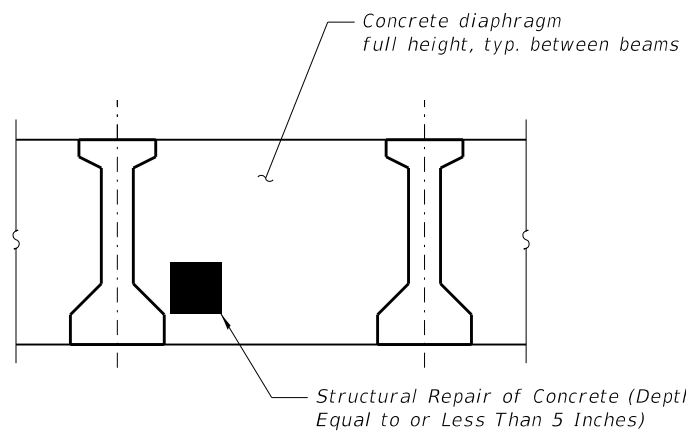
- NOTES:**
- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
 - For Preformed Joint Strip Seal and sidewalk sliding plate details see sheet Preformed Joint Strip Seal sheets.
 - Apply protective coat to top surfaces and inside face of new concrete.
 - Existing Railing and posts in areas of parapet reconstruction shall be supported and reattached to the new parapet concrete. New anchors, nuts and washers shall be provided. Cost included with Concrete Superstructure.
 - Any damage to the lighting cable or conduit embedded in the parapet, or the fiber optic cable or conduit attached to the parapet should be repaired by the contractor at no additional cost. Cost included with Concrete Superstructure.

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FILE NAME =	USER NAME = c-friedmana	DESIGNED - LS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL ROUTE 50 (CICERO AVENUE) OVER BRC RAILROAD	SN 016-2512 (SB), SN 016-2153 (NB) TYPICAL EXPANSION JOINT DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D910515-shr-Typical Expansion Joints Details	DRAWN - ZC	REVISED -	350			2018-124-BR	COOK	95	55	
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PLOT DATE = 11/18/2020	DATE - 10/15/2020	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE: SHEET 5-18 OF 5-42 SHEETS STA. TO STA.						



BEAM REPAIR KEY PLAN
S.N. 016-2512 (SB), 016-2513 (NB)



CONCRETE DIAPHRAGM REPAIR

LEGEND:

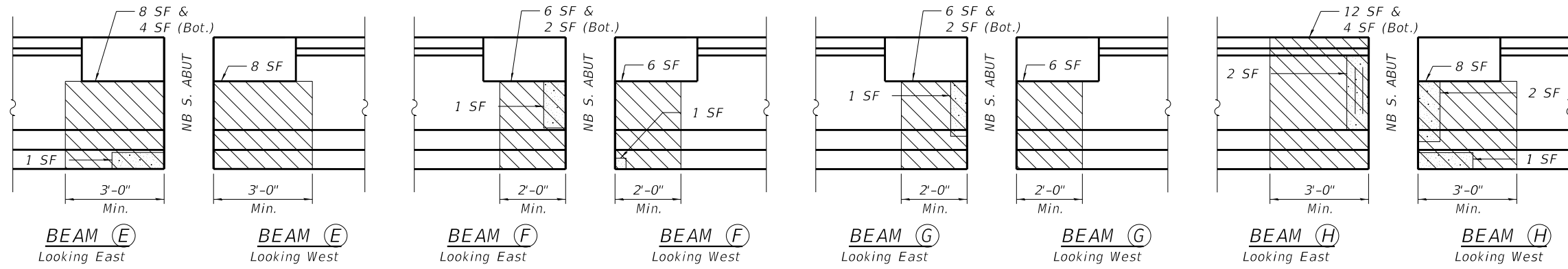
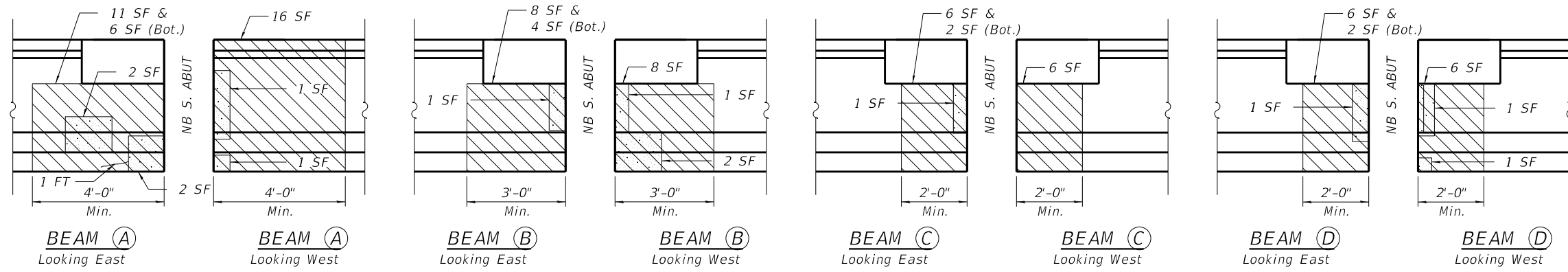
- Diaphragm Repair - Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)
- ▨ Fiber Wrap Repair and Acrylic Coating (Midspan Beam) - See BEAM REPAIR DETAILS Sheet for Details
- Fiber Wrap Repair (Beam End) - See Beam Repairs Sheets for Repair Sizes and Bill of Material
- ES Exposed Strand

BILL OF MATERIAL
SN 016-2513 (NB)

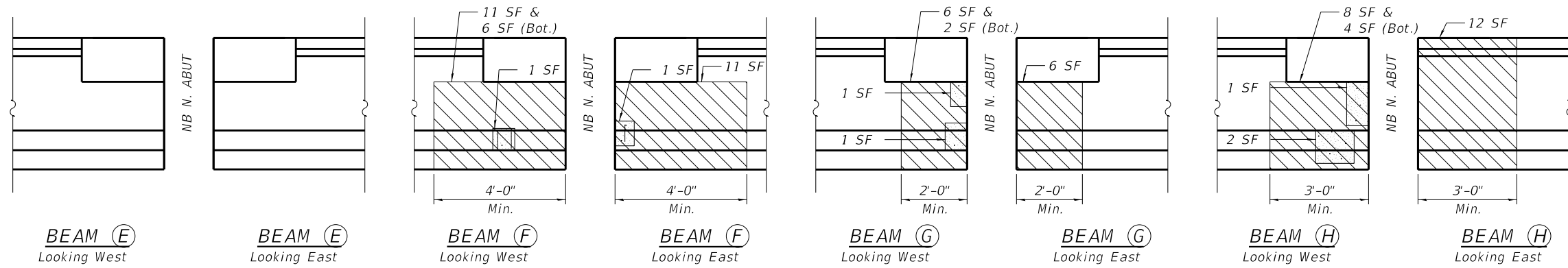
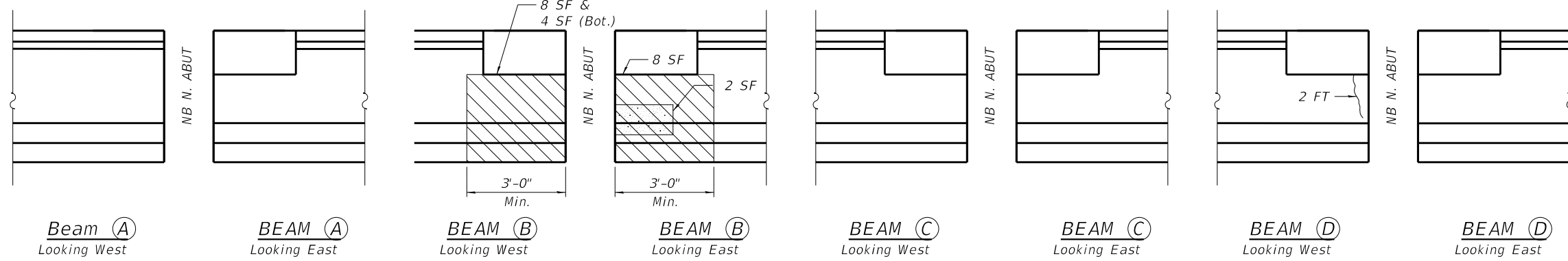
Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	26
Fiber Wrap	Sq. Ft.	112
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	18
Acrylic Coating	Sq. Yd.	13

BILL OF MATERIAL
SN 016-2512 (SB)

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	22



NB BEAM REPAIR ELEVATIONS AT SOUTH ABUTMENT



NB BEAM REPAIR ELEVATIONS AT NORTH ABUTMENT

Notes:
 1. Beams to be repaired with Precast Prestressed Concrete I-Beam Repair and Fiber Wrap Repair. See PPC beam repair details on "BEAM REPAIR DETAILS" Sheet.

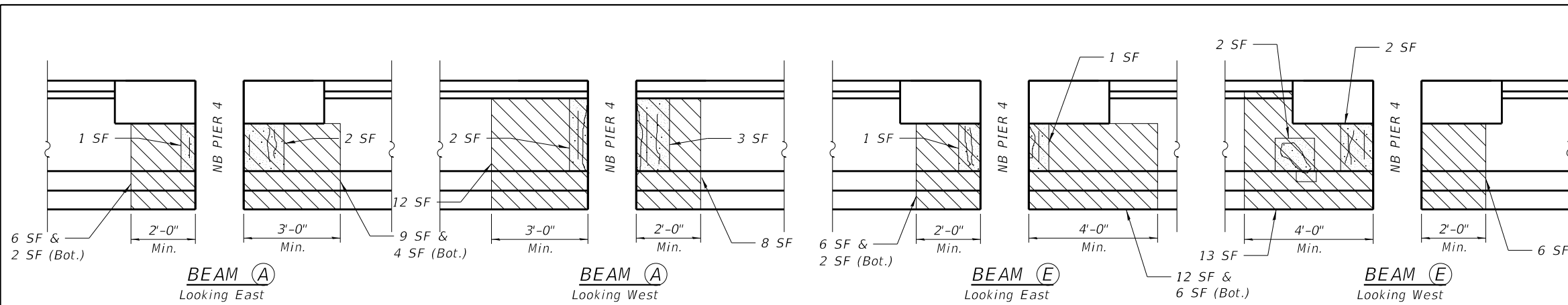
LEGEND

- Precast Prestressed Concrete I-Beam Repair
- Crack - High Pressure Epoxy Injection
- Exposed Rebar
- Exposed Strand
- Fiber Wrap Repair and Acrylic Coating

BILL OF MATERIAL
SN 016-2513 (NB)

Item	Unit	Quantity
Fiber Wrap	Sq. Ft.	239
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	32
Epoxy Crack Injection	Foot	3
Acrylic Coating	Sq. Yd.	27

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 USER: anthony.friedman
 DATE: 10/14/2020



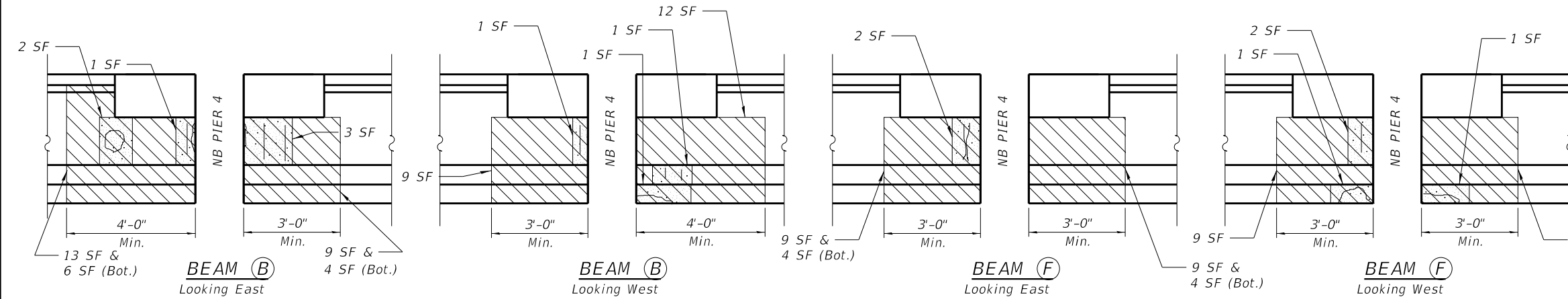
BEAM A
Looking East

BEAM A
Looking West

BEAM E
Looking East

BEAM E
Looking West

Notes:
1. Beams to be repaired with Precast Prestressed Concrete I-Beam Repair and Fiber Wrap Repair. See PPC beam repair details on "BEAM REPAIR DETAILS" Sheet.



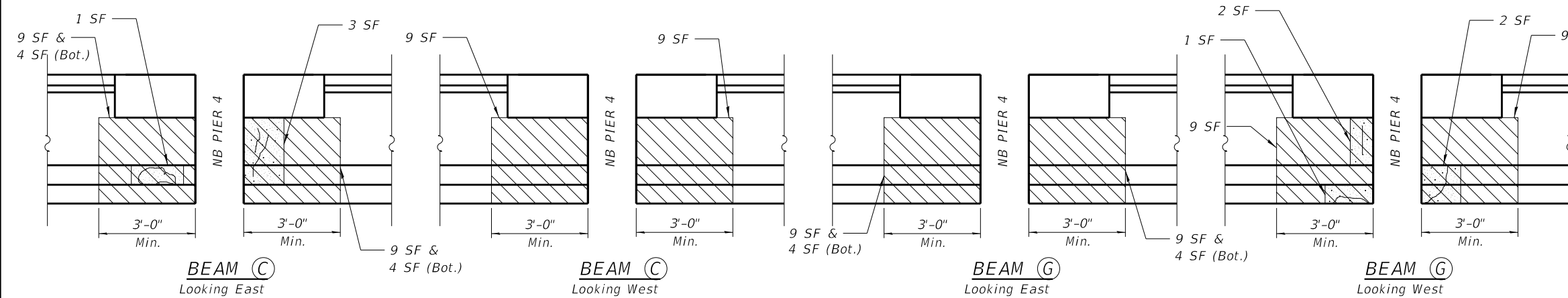
BEAM B
Looking East

BEAM B
Looking West

BEAM F
Looking East

BEAM F
Looking West

LEGEND:
 Precast Prestressed Concrete I-Beam Repair
 Crack - Epoxy Crack Injection
 Exposed Rebar
 Exposed Strand
 Fiber Wrap Repair and Acrylic Coating



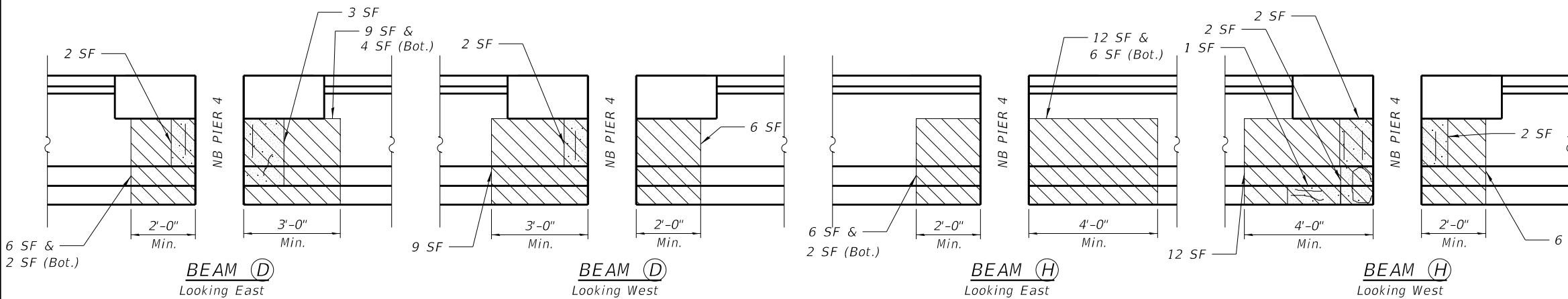
BEAM C
Looking East

BEAM C
Looking West

BEAM G
Looking East

BEAM G
Looking West

1 FT
 Crack - Epoxy Crack Injection
 Exposed Rebar
 Exposed Strand



BEAM D
Looking East

BEAM D
Looking West

BEAM H
Looking East

BEAM H
Looking West

**BILL OF MATERIAL
SN 016-2513 (NB)**

Item	Unit	Quantity
Fiber Wrap	Sq. Ft.	351
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	52
Epoxy Crack Injection	Foot	0
Acrylic Coating	Sq. Yd.	39

NB BEAM REPAIR ELEVATIONS AT PIER 4

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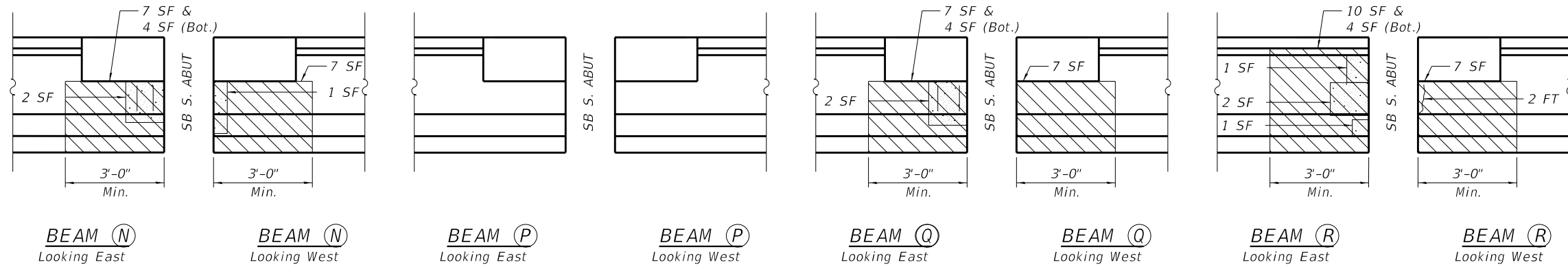
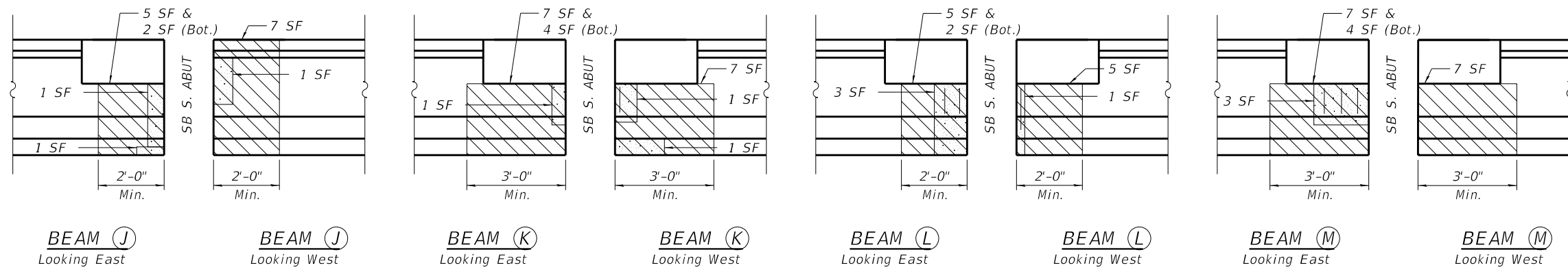
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

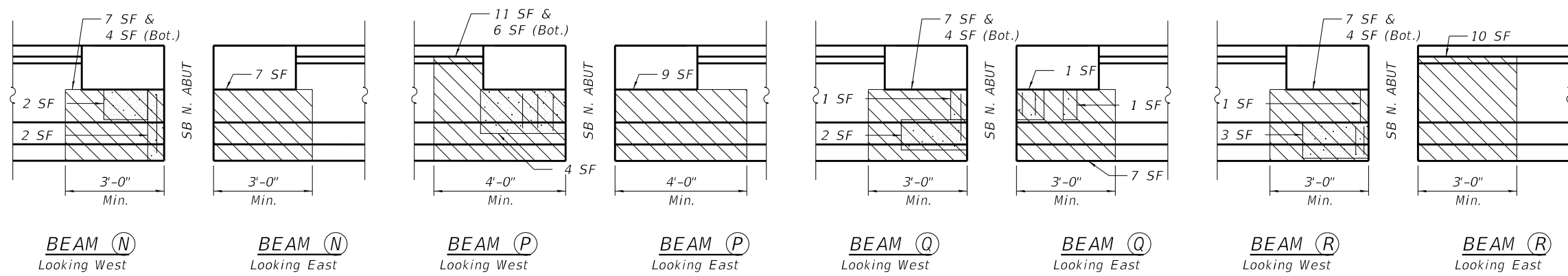
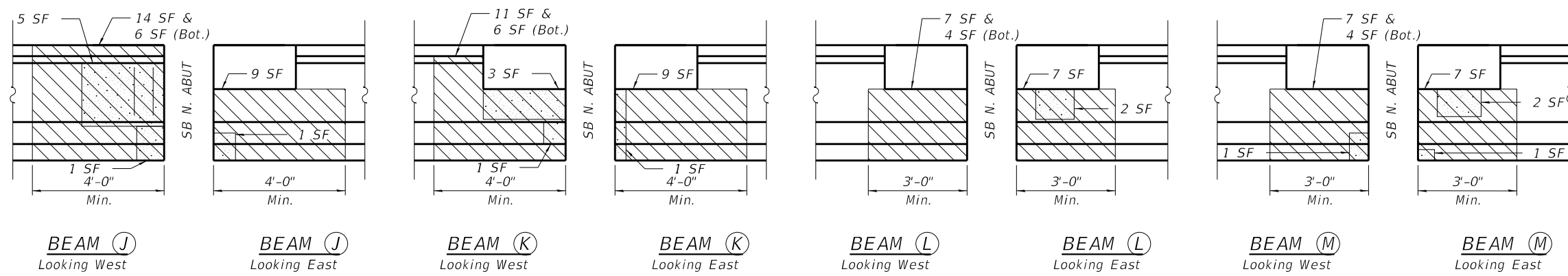
**SN 016-2512 (SB), SN 016-2513 (NB)
NB BEAM REPAIRS AT PIER 4**

SCALE: SHEET S-21 OF 5-42 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				



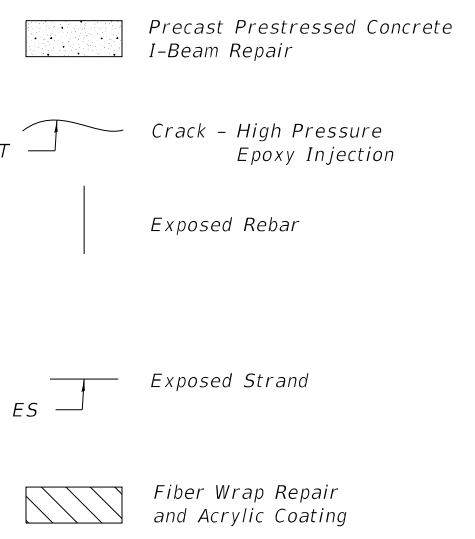
SB BEAM REPAIR ELEVATIONS AT SOUTH ABUTMENT



SB BEAM REPAIR ELEVATIONS AT NORTH ABUTMENT

Notes:
 1. Beams to be repaired with Precast Prestressed Concrete I-Beam Repair and Fiber Wrap Repair. See PPC beam repair details on "BEAM REPAIR DETAILS" Sheet.

LEGEND



BILL OF MATERIAL
 SN 016-2512 (SB)

Item	Unit	Quantity
Fiber Wrap	Sq. Ft.	293
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	57
Epoxy Crack Injection	Foot	2
Acrylic Coating	Sq. Yd.	33

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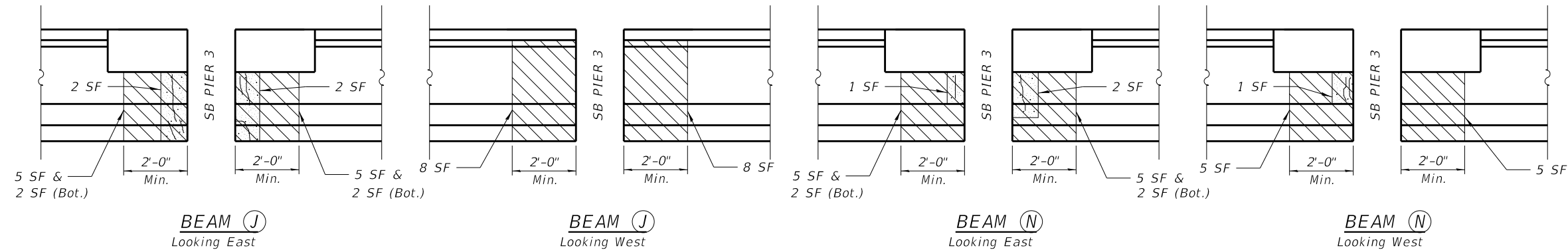
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

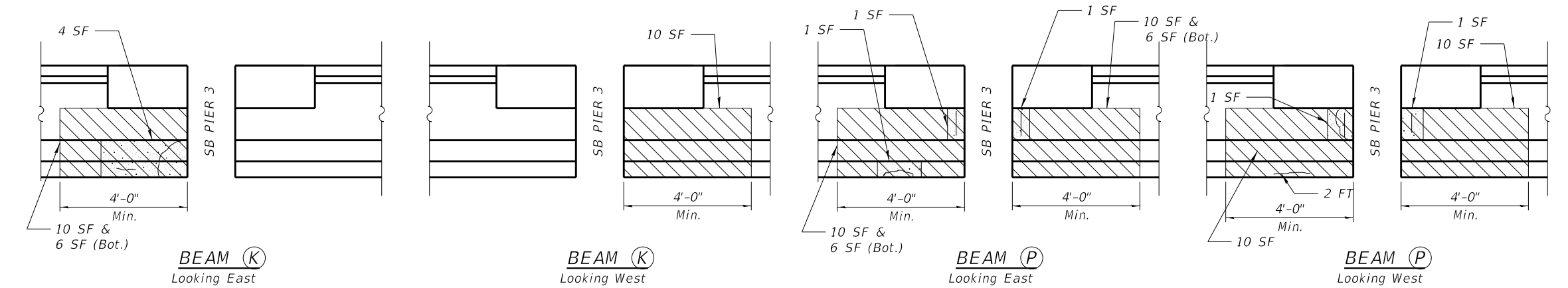
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SB BEAM REPAIRS AT NORTH & SOUTH ABUTMENTS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				

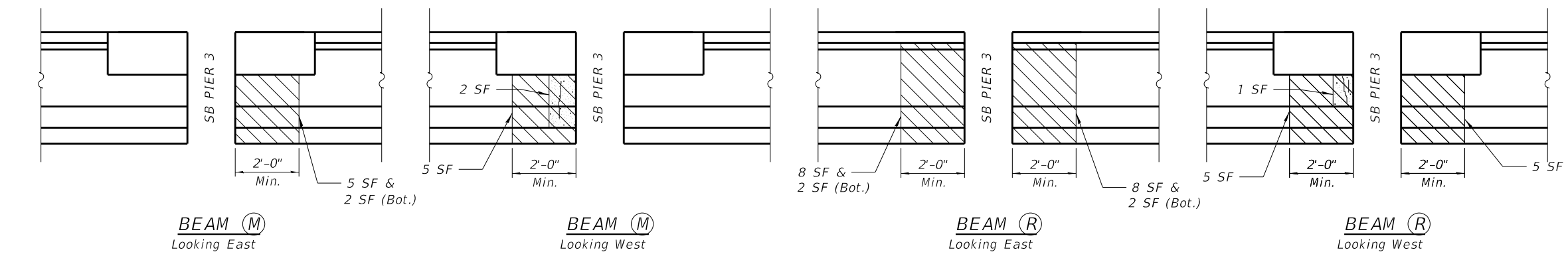
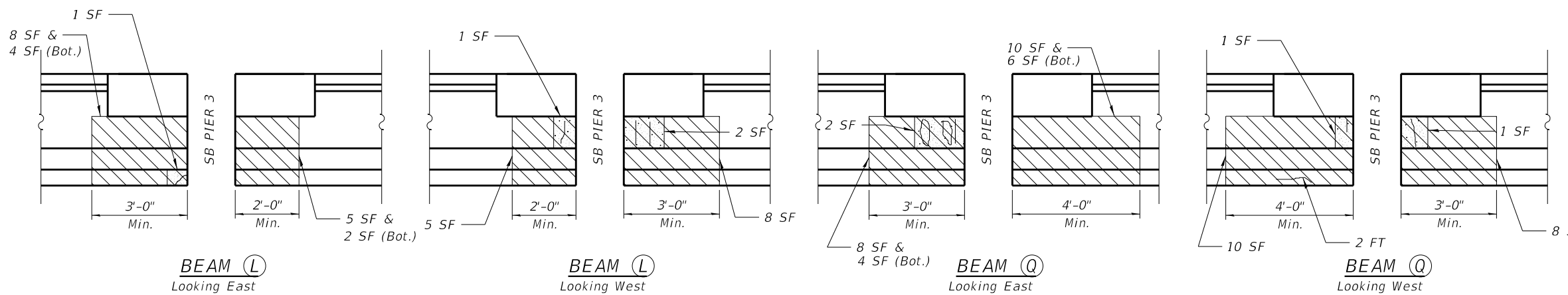
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Notes:
 1. Beams to be repaired with Precast Prestressed Concrete I-Beam Repair and Fiber Wrap Repair. See PPC beam repair details on "BEAM REPAIR DETAILS" Sheet.



LEGEND:
 Precast Prestressed Concrete I-Beam Repair
 Crack - Epoxy Crack Injection
 Exposed Rebar
 Exposed Strand
 Fiber Wrap Repair and Acrylic Coating



BILL OF MATERIAL
SN 016-2512 (SB)

Item	Unit	Quantity
Fiber Wrap	Sq. Ft.	252
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	28
Epoxy Crack Injection	Foot	4
Acrylic Coating	Sq. Yd.	28

SB BEAM REPAIR ELEVATIONS AT PIER 3

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 DATE: 10/15/2020

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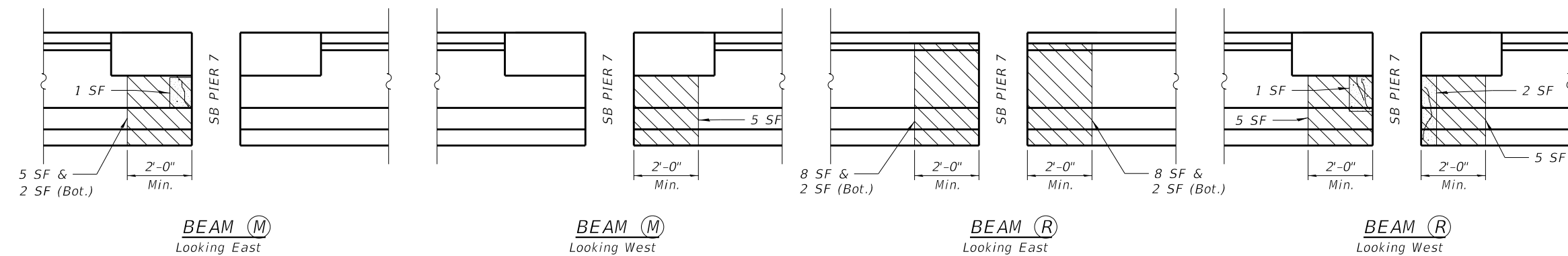
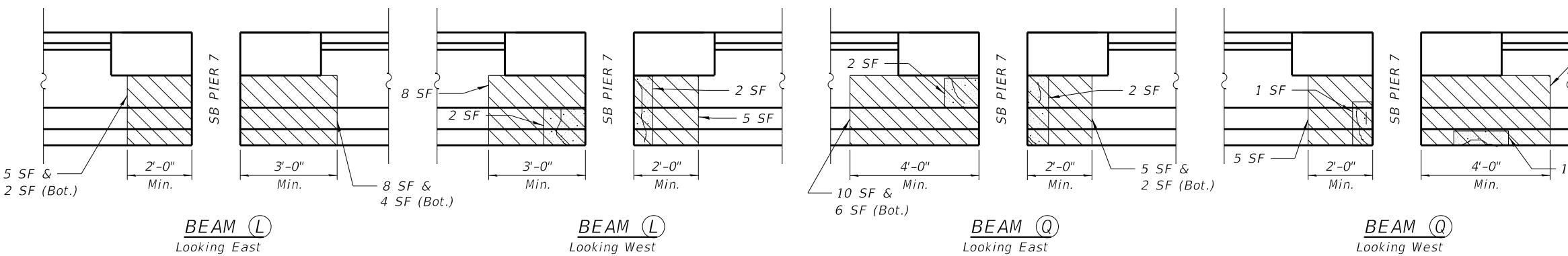
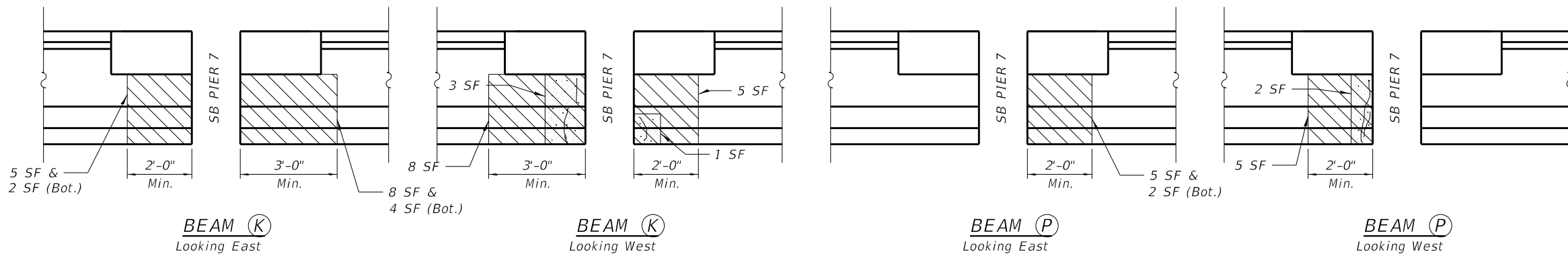
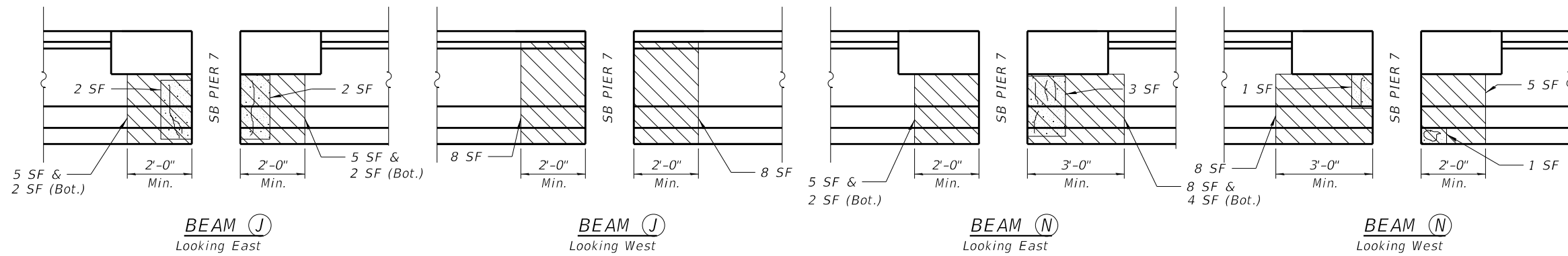
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

SN 016-2512 (SB), SN 016-2513 (NB)
SB BEAM REPAIRS AT PIER 3

SCALE: SHEET 5-23 OF 5-42 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	60
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				





Notes:
1. Beams to be repaired with Precast Prestressed Concrete I-Beam Repair and Fiber Wrap Repair. See PPC beam repair details on "BEAM REPAIR DETAILS" Sheet.

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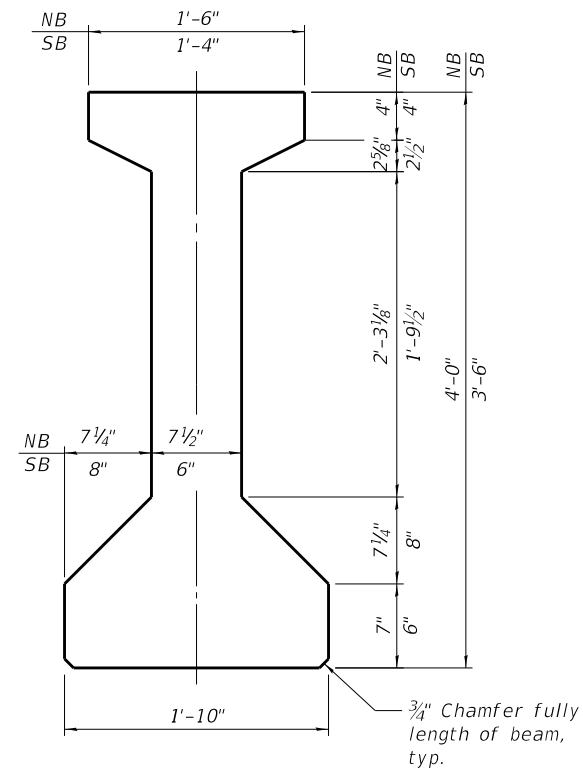
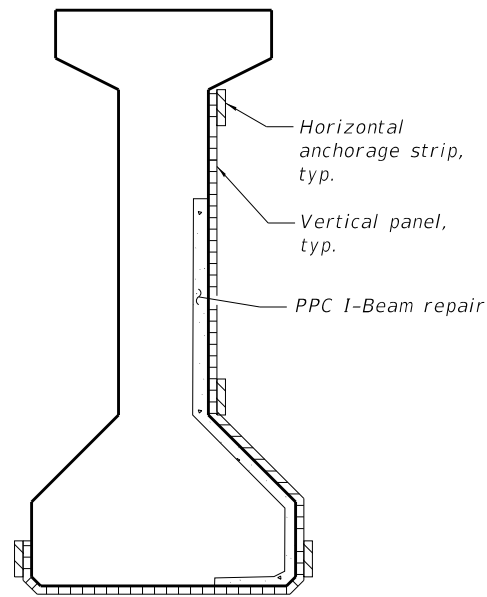
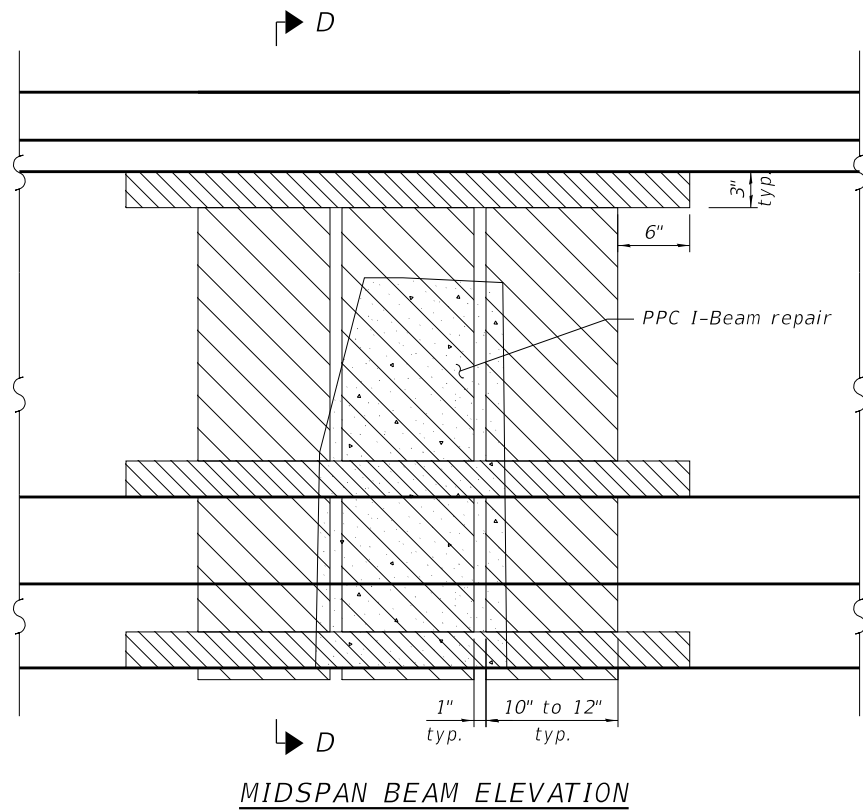
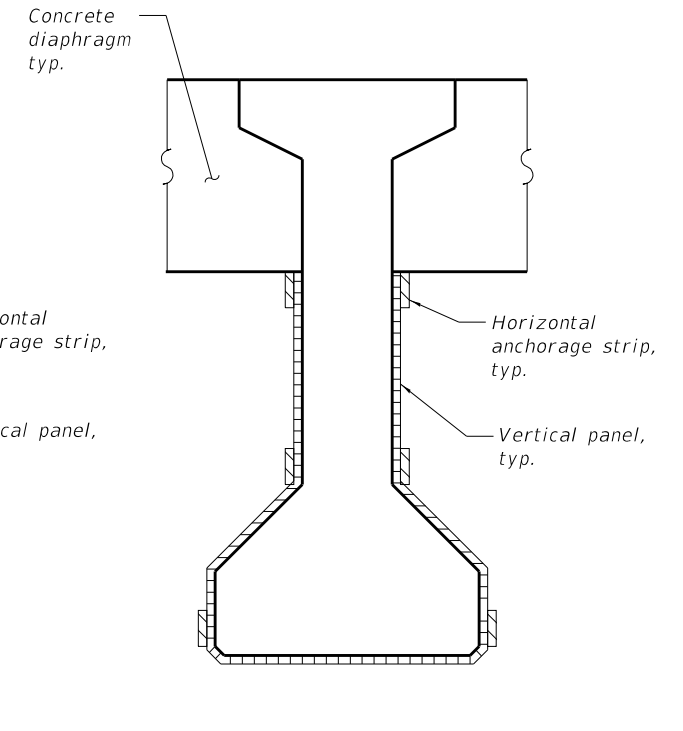
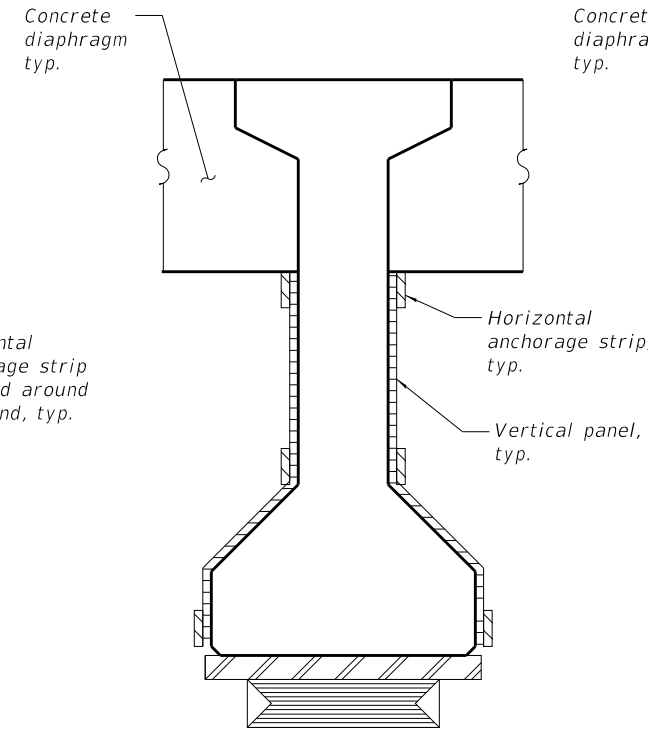
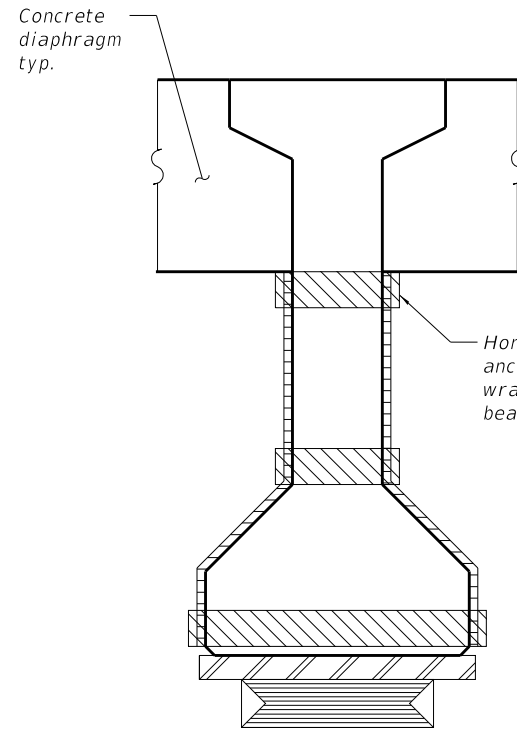
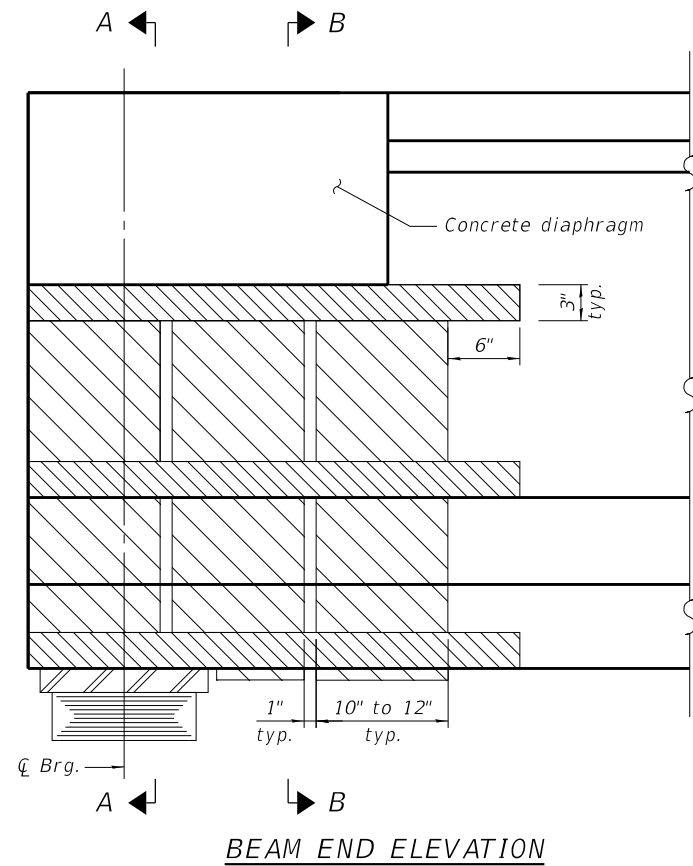
- Precast Prestressed Concrete I-Beam Repair
- Crack - Epoxy Crack Injection
- Exposed Rebar
- Exposed Strand
- Fiber Wrap Repair and Acrylic Coating

BILL OF MATERIAL
SN 016-2512 (SB)

Item	Unit	Quantity
Fiber Wrap	Sq. Ft.	218
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	29
Epoxy Crack Injection	Foot	0
Acrylic Coating	Sq. Yd.	25

SB BEAM REPAIR ELEVATIONS AT PIER 7

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 CONTRACT: 801-10-Structural\Sheet\09105519-SB Beam Repairs at Pier 7.dgn
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Notes:

- Vertical panels must be between 10" and 12". The space between each vertical panel shall be 1". Vertical panels shall be extend beyond the repair zone by a minimum of 3". Vertical panels located above the bearing location shall be placed in two pieces as shown in Section A-A. At locations in front of the bearing, the vertical panels shall be one continuous strip wrapping beneath the bottom flanges as shown in Section B-B.
- Horizontal anchorage strips shall be 3" wide and extend a minimum of 6" beyond the vertical panels. The horizontal anchorage strips shall be placed on top of the vertical panels.
- Spalled concrete and exposed reinforcement shall be repaired according to the special provision "PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR".
- All cracks greater than 0.007 in. shall be injected with epoxy according to Section 590 of the Standard Specifications for Road and Bridge Construction.
- Acrylic coating shall be placed over fiber wrap repairs. Two coats shall be applied
- See special provision for "FRP STRENGTHENING FOR PPC I-BEAM REPAIRS."

LEGEND

- Horizontal anchorage strip
- Vertical panel
- PPC I-Beam repair

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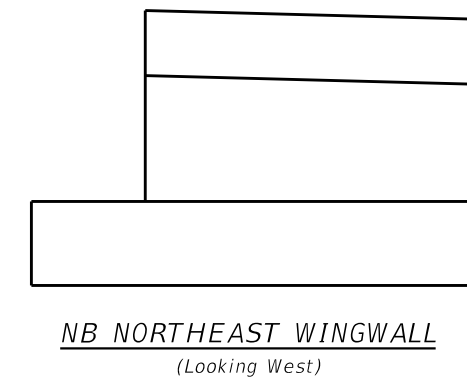
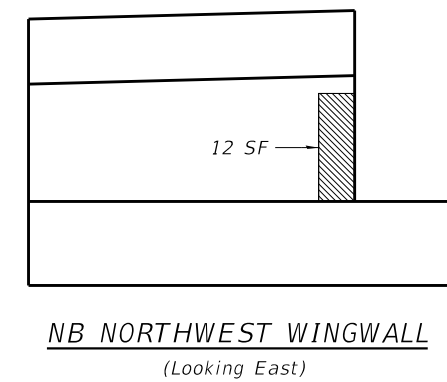
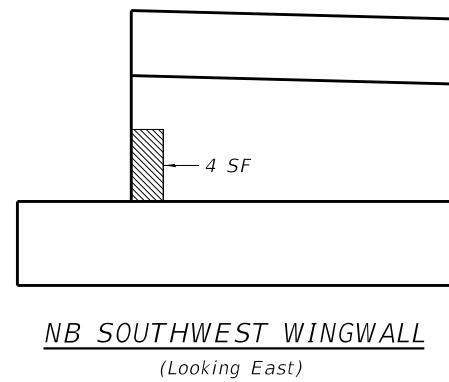
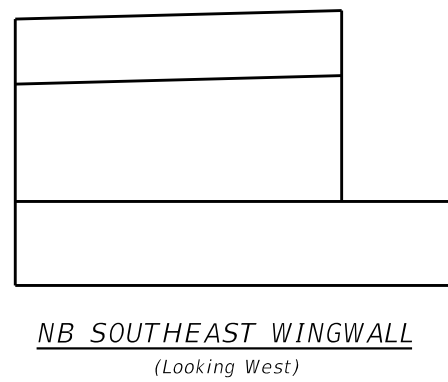
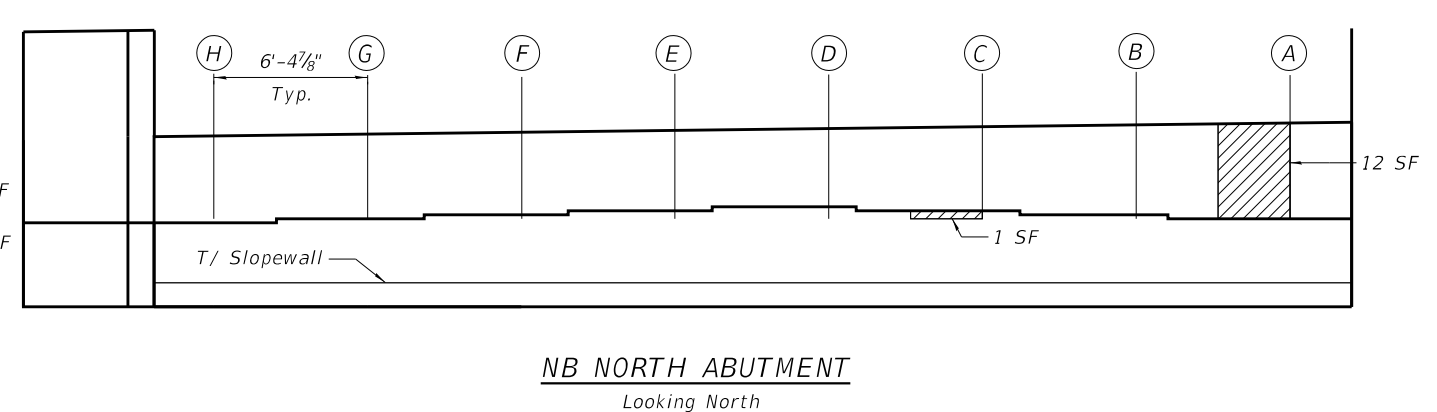
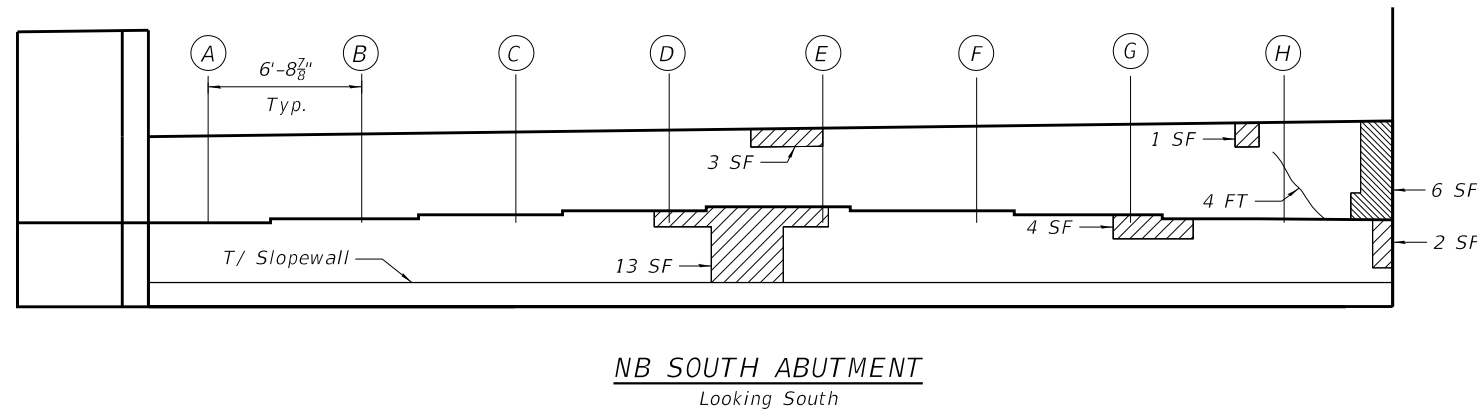
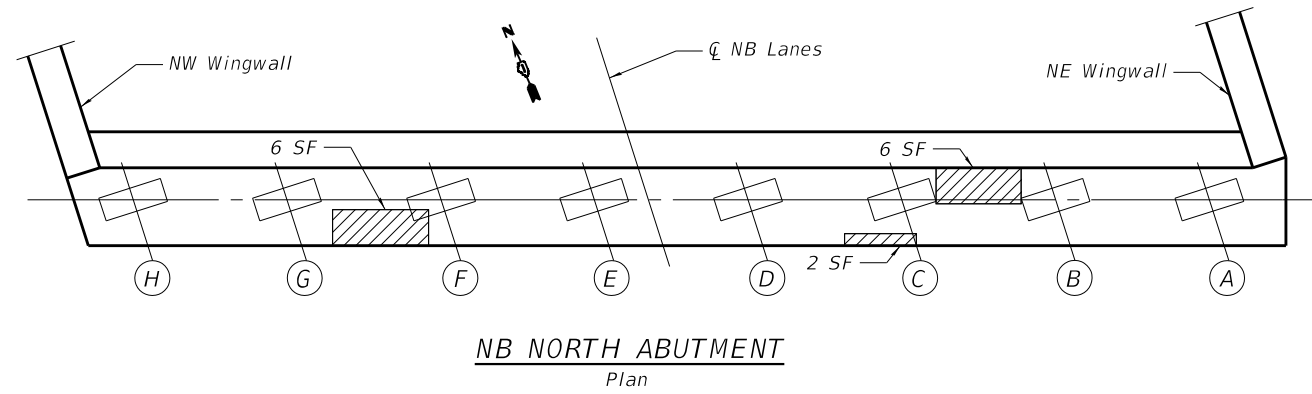
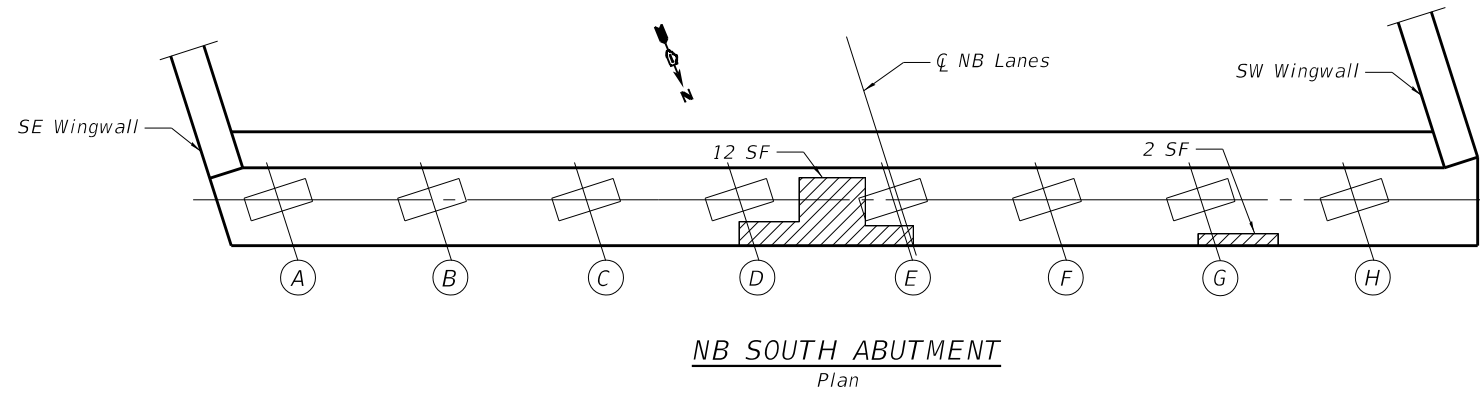
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

SN 016-2512 (SB), SN 016-2513 (NB)
BEAM REPAIR DETAILS

SCALE: SHEET 5-25 OF 5-42 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	62
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				



LEGEND

- Structural Repair of Concrete (Depth Equal to or Less Than 5")
- Structural Repair of Concrete (Depth Greater Than 5")
- 1 FT Epoxy Crack Injection

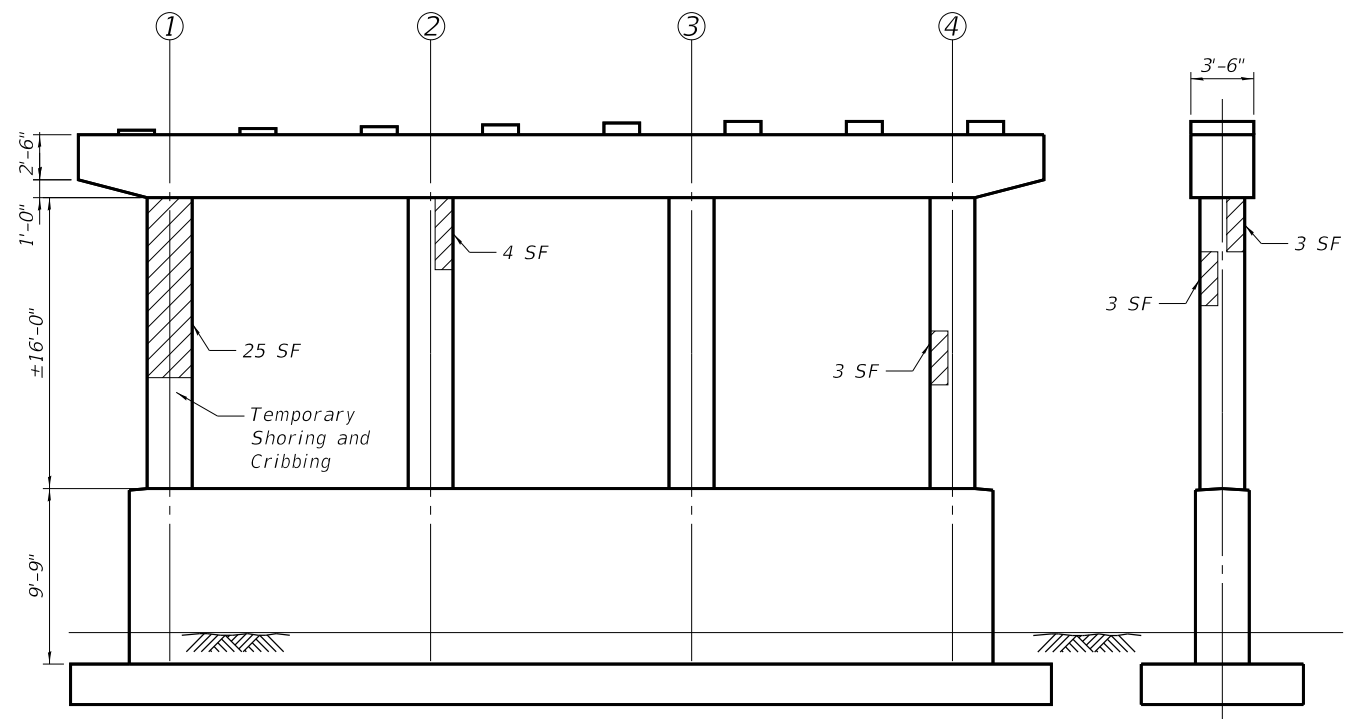
GIRDER REACTION TABLE			
NB		North Abutment	South Abutment
R_{DL}	(k)	51.3	30.6
R_{SDL}	(k)	6.3	3.3
R_{LL}	(k)	35.0	31.9
R_I	(k)	8.2	9.0
R_{Total}	(k)	100.8	74.8

Note:
Reactions provided are for information only and are maximum for the girder.

BILL OF MATERIAL
SN 016-2513 (NB)

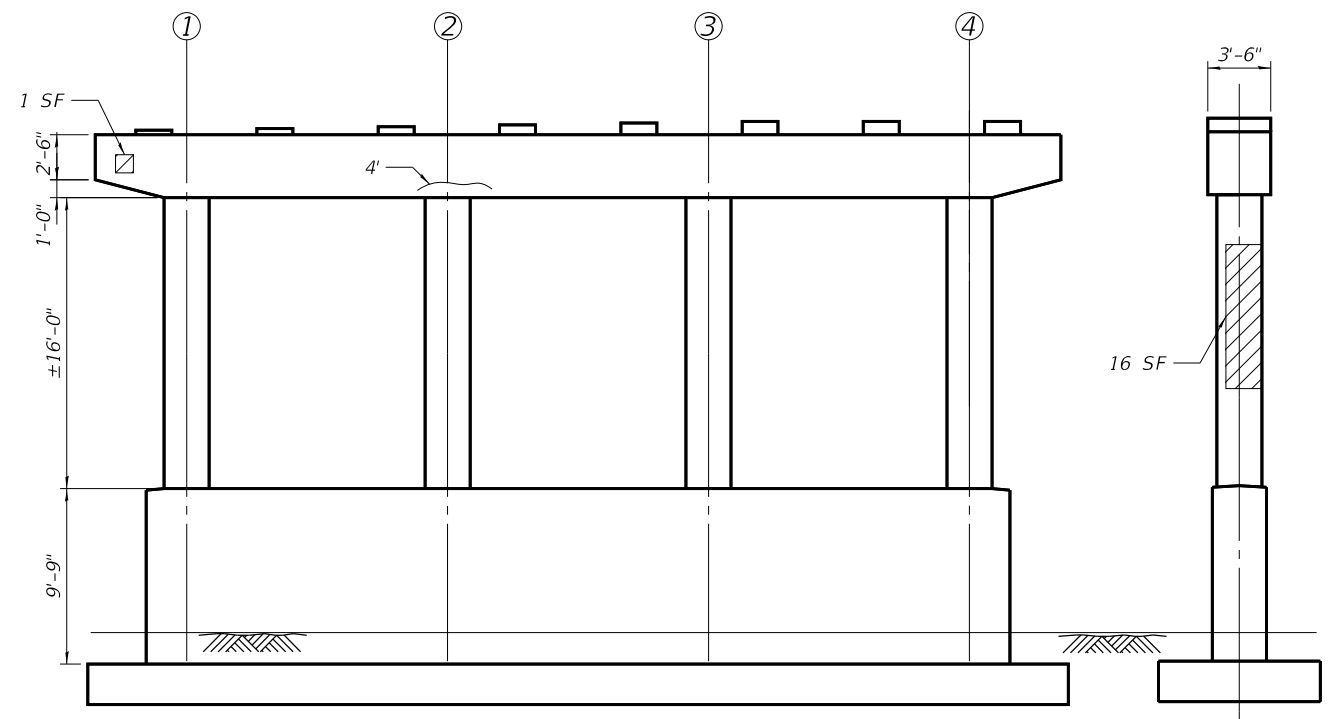
Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	64
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	22
Epoxy Crack Injection	Foot	4
Concrete Sealer	Sq. Ft.	86

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NB PIER 2 ELEVATION
(Looking South)

PIER 2 COLUMN 1
(Looking East)



NB PIER 3 ELEVATION
(Looking South)

PIER 3 COLUMN 4
(Looking East)

LEGEND:

- Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)
- Epoxy Crack Injection

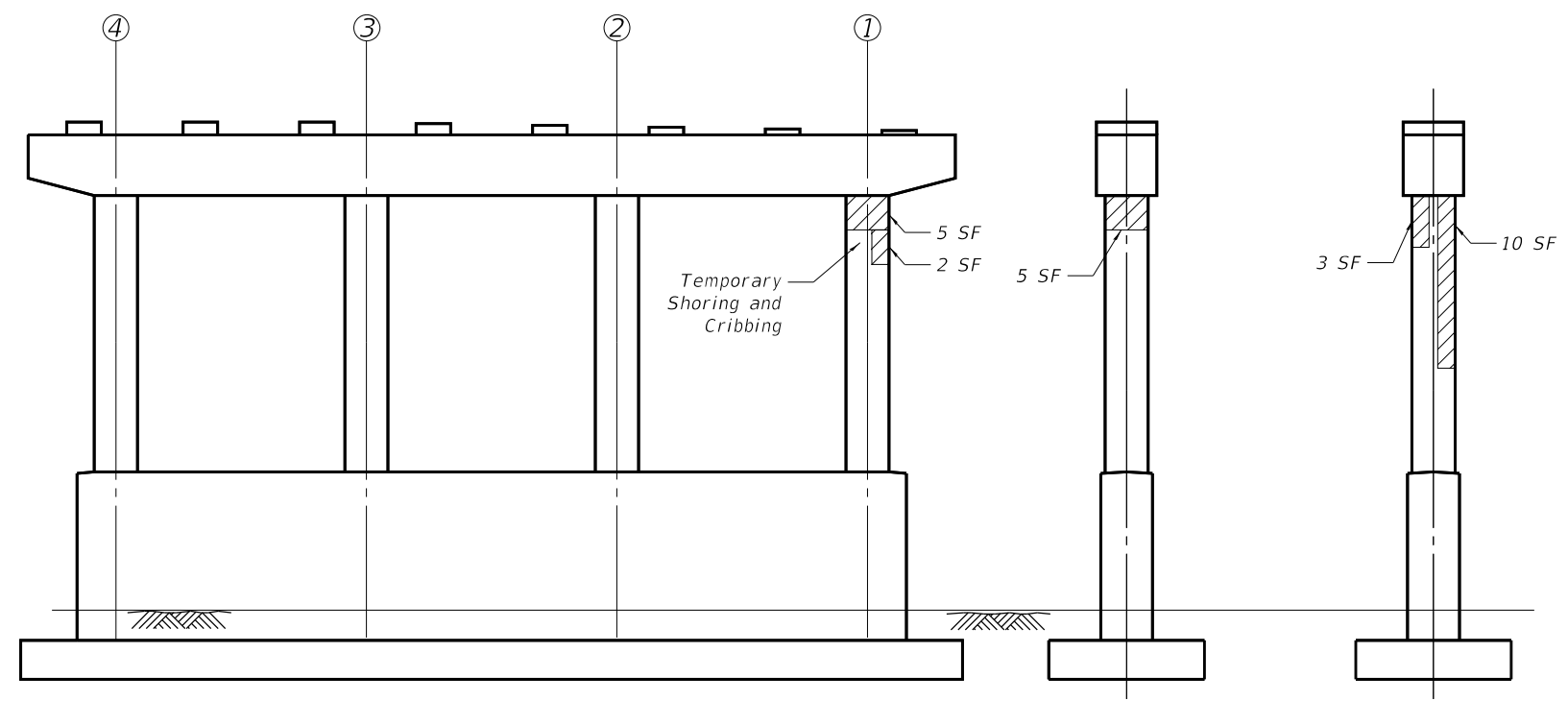
PIER 2 GIRDER REACTION TABLE		
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R_{DL} (k)	83.5	
R_{SDL} (k)	11.6	
R_{LL} (k)	44.1	
R_I (k)	11.2	
R_{Total} (k)	150.4	

PIER 3* GIRDER REACTION TABLE		
	Span 3	Span 4
R_{DL} (k)	74.9	
R_{SDL} (k)	13.0	
R_{LL} (k)	43.4	
R_I (k)	11.5	
R_{Total} (k)	142.8	

* For Information Only.

Note:

Reactions provided are maximum for the girder under the spans indicated. Contractor shall verify loading at each shoring location. Cost included in the pay item 'Temporary Shoring and Cribbing'.



NB PIER 2 ELEVATION
(Looking North)

PIER 2 COLUMN 2
(Looking West)

PIER 2 COLUMN 1
(Looking West)

BILL OF MATERIAL
SN 016-2513 (NB)

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	80
Temporary Shoring and Cribbing	Each	2

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 DRAWN: ZC
 CHECKED: BGK
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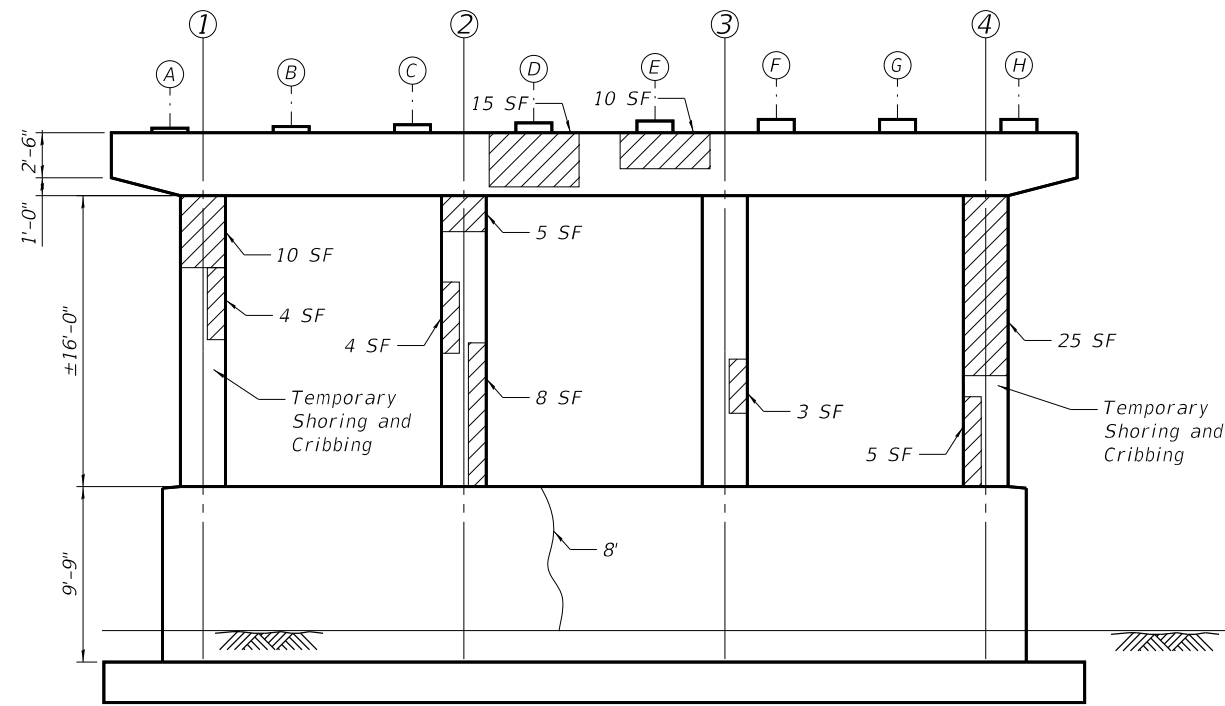
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

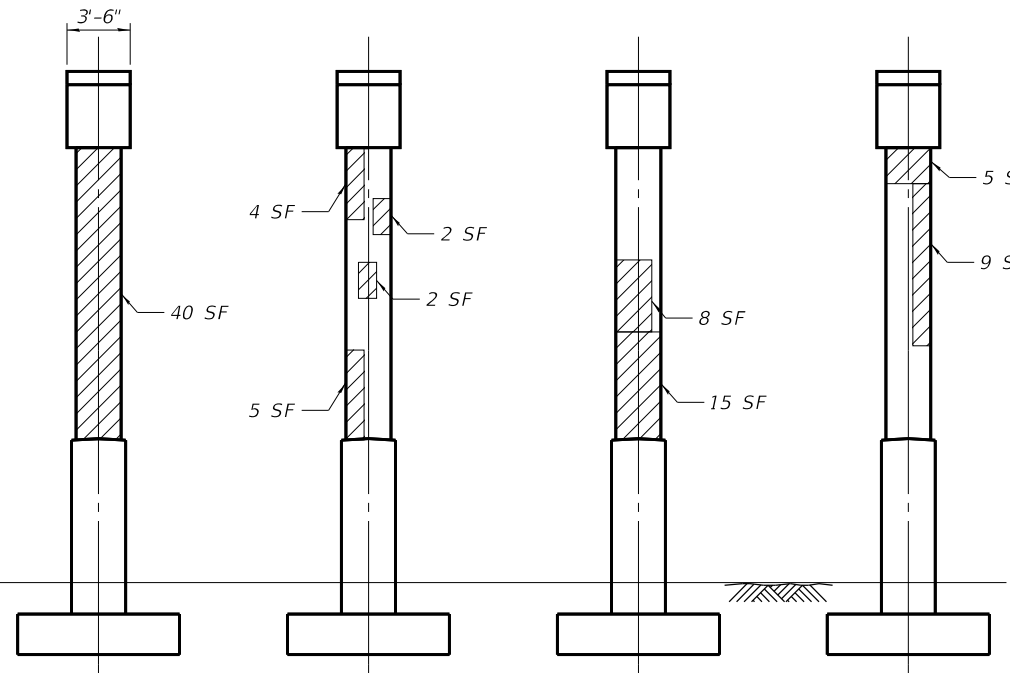
SN 016-2512 (SB), SN 016-2513 (NB)
NB PIER 2 & PIER 3 REPAIRS

SCALE: SHEET 5-27 OF 5-42 SHEETS STA. TO STA.

F.A.P. RTE. 350	SECTION 2018-124-BR	COUNTY COOK	TOTAL SHEETS 95	SHEET NO. 64
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H50	



NB PIER 4 ELEVATION
(Looking South)



COLUMN 1
(Looking East)

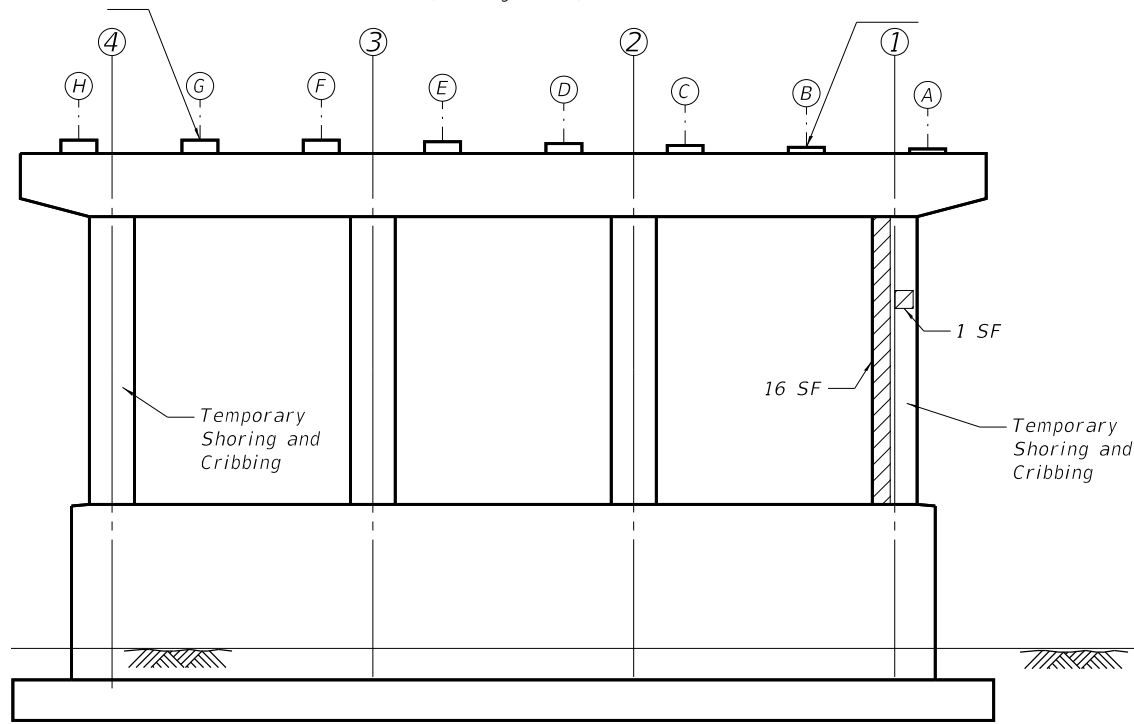
COLUMN 2
(Looking East)

COLUMN 3
(Looking East)

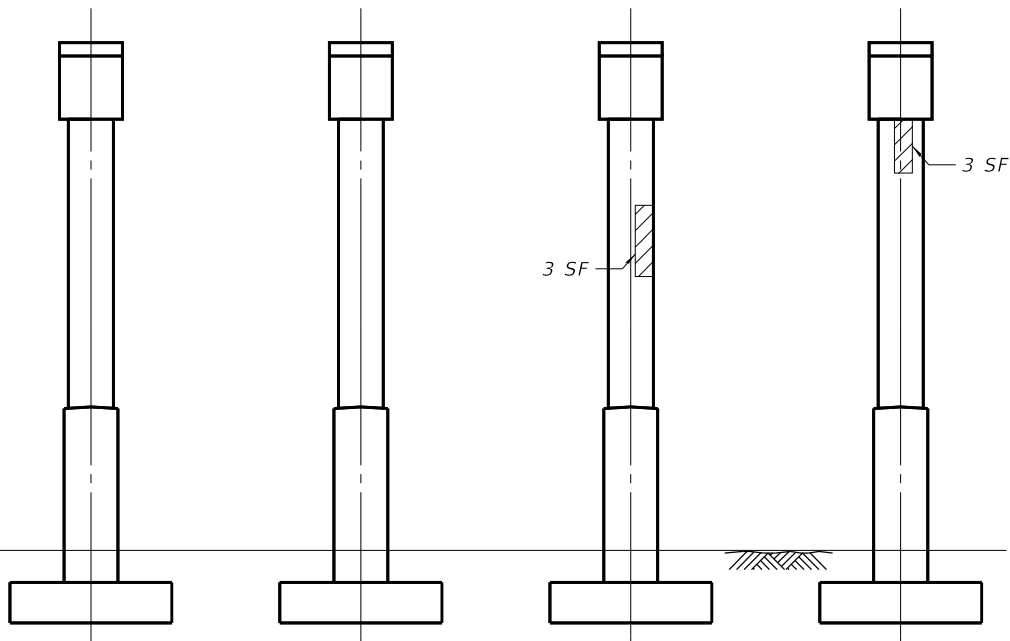
COLUMN 4
(Looking East)

LEGEND:

- Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)
- Epoxy Crack Injection



NB PIER 4 ELEVATION
(Looking North)



COLUMN 4
(Looking West)

COLUMN 3
(Looking West)

COLUMN 2
(Looking West)

COLUMN 1
(Looking West)

PIER 4 GIRDER REACTION TABLE		
	Span 4	Span 5
R_{DL} (k)	36.2	39.3
R_{SDL} (k)	4.3	4.4
R_{LL} (k)	32.9	33.6
R_I (k)	8.8	8.8
R_{Total} (k)	82.2	86.1

Note:

Reactions provided are maximum for the girder in the span indicated. Contractor shall verify loading at each shoring location. Cost included in the pay item 'Temporary Shoring and Cribbing'.

BILL OF MATERIAL
SN 016-2513 (NB)

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	202
Epoxy Crack Injection	Foot	8
Concrete Sealer	Sq. Ft.	202
Temporary Shoring and Cribbing	Each	4

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 PLOT DATE: 10/14/2020

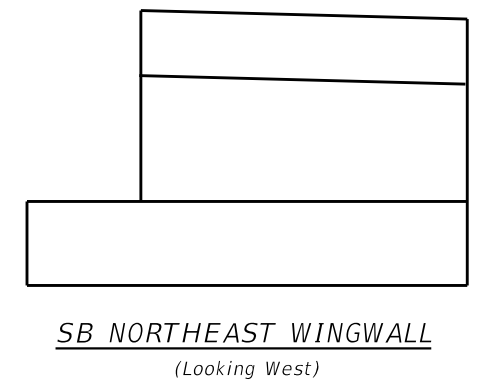
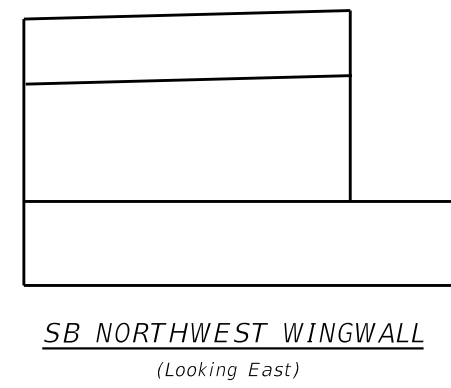
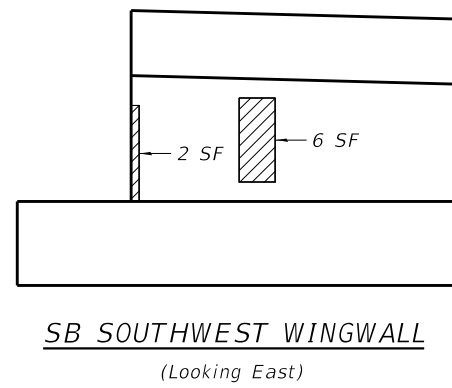
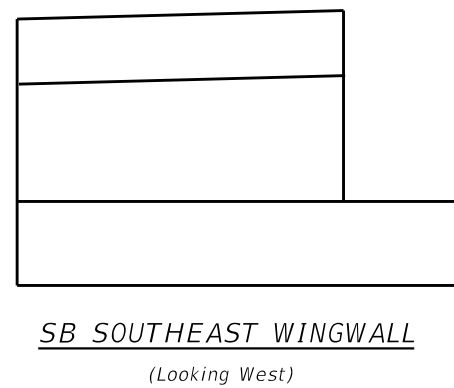
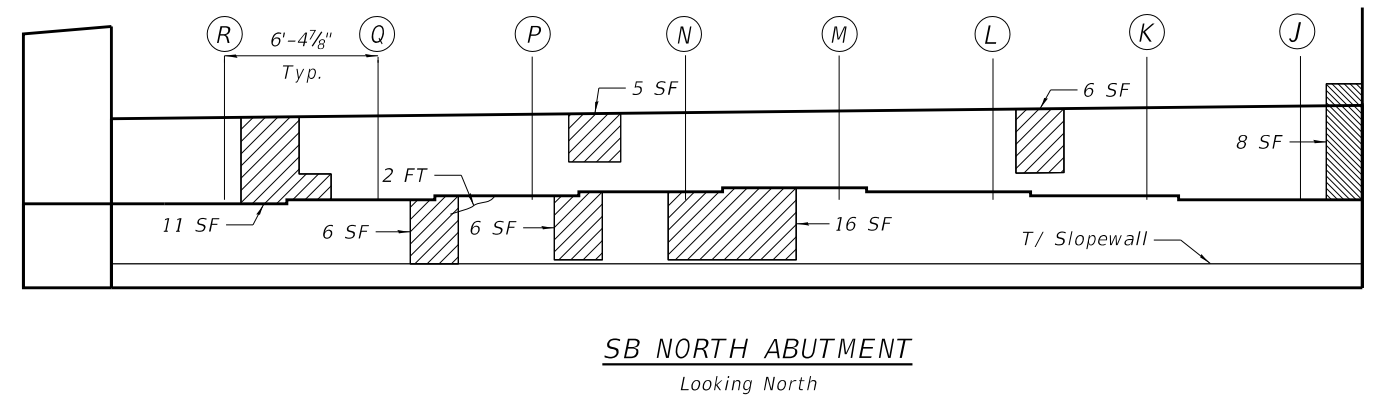
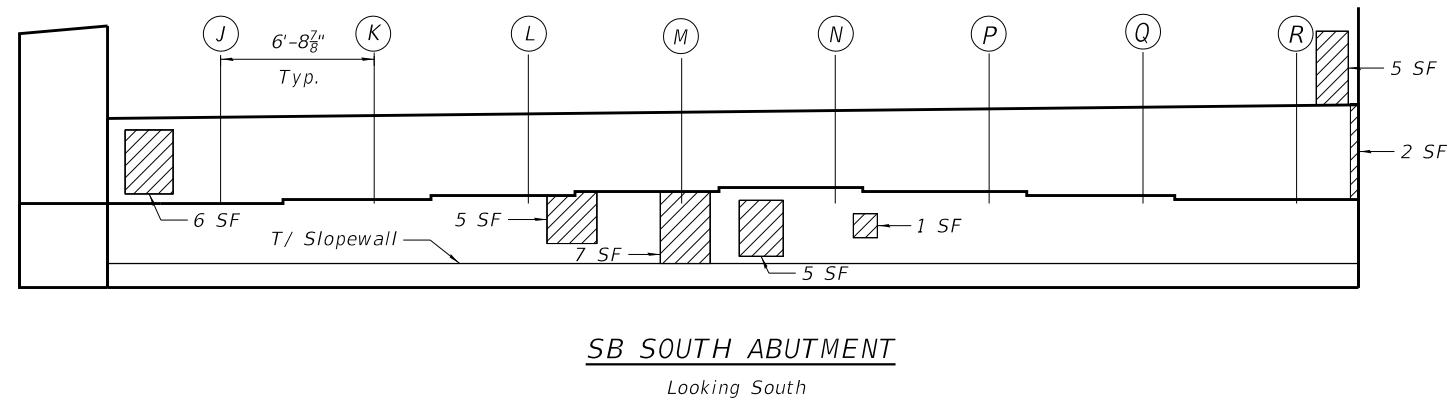
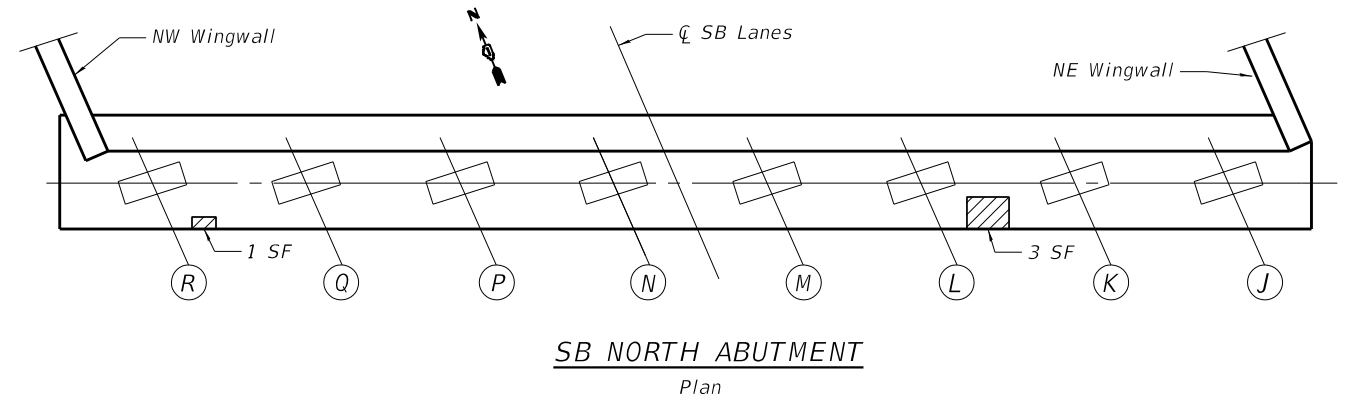
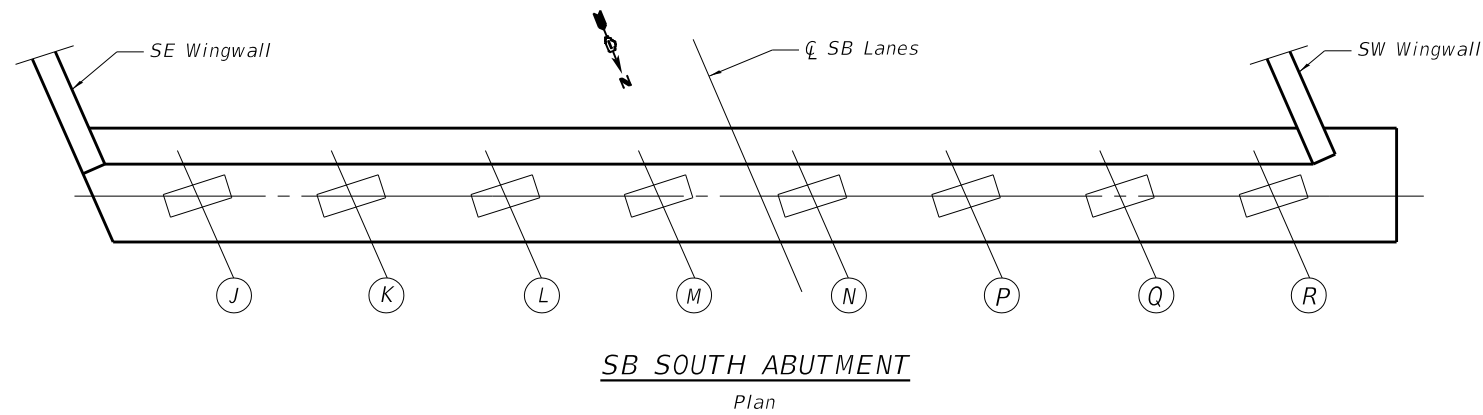
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	PLOT DATE = 10/14/2020	DATE - 10/15/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

SN 016-2512 (SB), SN 016-2513 (NB)
NB PIER 4 REPAIRS

SCALE: SHEET 5-28 OF 5-42 SHEETS STA. TO STA.

F.A.P. RTE. 350	SECTION 2018-124-BR	COUNTY COOK	TOTAL SHEETS 95	SHEET NO. 65
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				



LEGEND

- Structural Repair of Concrete (Depth Equal to or Less Than 5")
- Structural Repair of Concrete (Depth Greater Than 5")
- 1 FT Epoxy Crack Injection

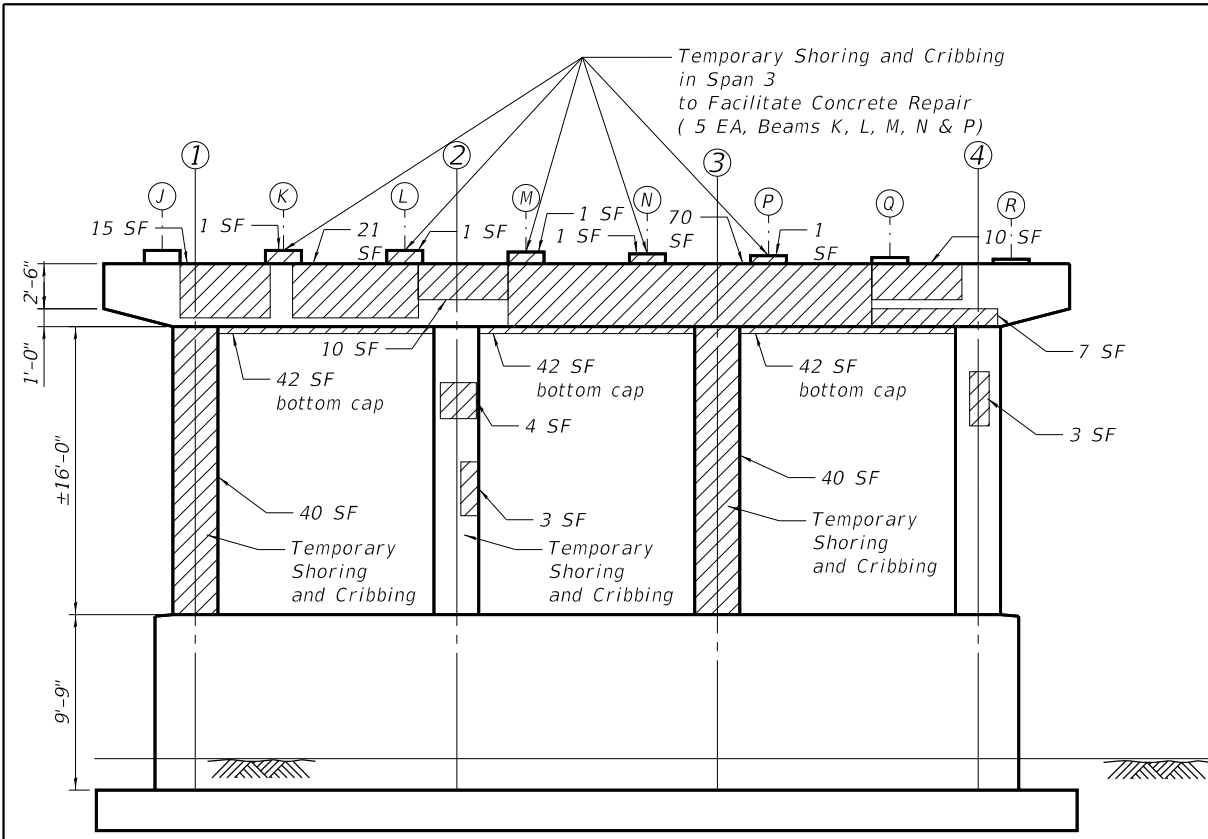
GIRDER REACTION TABLE		
SB	North Abutment	South Abutment
R _{DL} (k)	32.7	35.8
R _{SDL} (k)	4.5	4.9
R _{LL} (k)	32.9	33.3
R _I (k)	8.8	8.7
R _{Total} (k)	78.9	82.7

Note:
Reactions provided are for information only and are maximum for the girder.

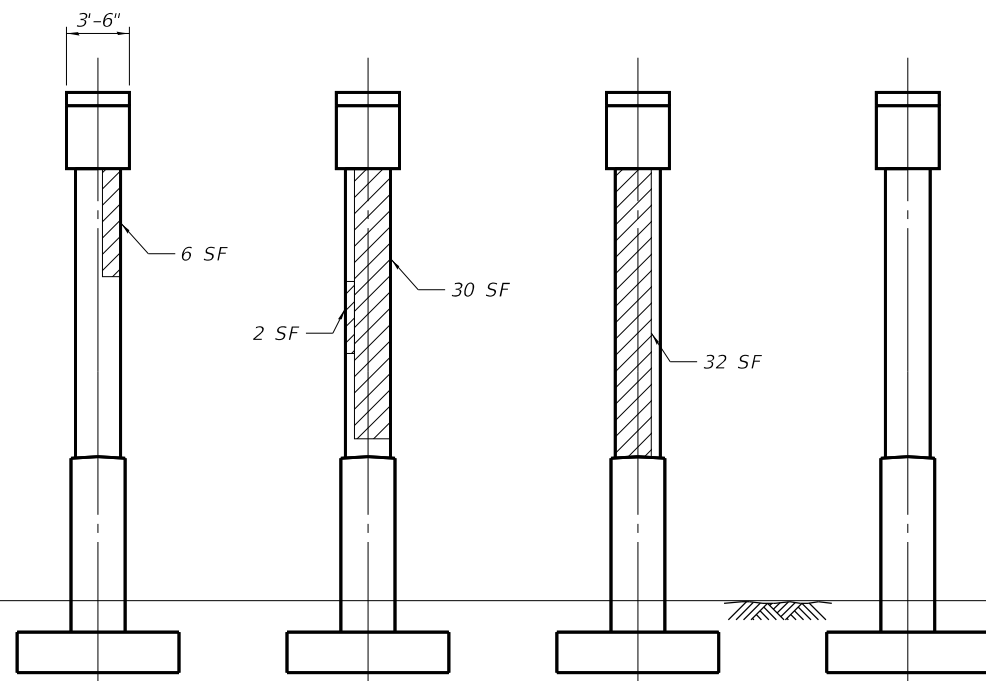
BILL OF MATERIAL
SN 016-2512 (SB)

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	93
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	8
Epoxy Crack Injection	Foot	2
Concrete Sealer	Sq. Ft.	101

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 USER: anthony.friedman
 DATE: 10/14/2020



SB PIER 3 ELEVATION
(Looking South)



COLUMN 1 (Looking East)
COLUMN 2 (Looking East)
COLUMN 3 (Looking East)
COLUMN 4 (Looking East)

LEGEND:

▨ Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)

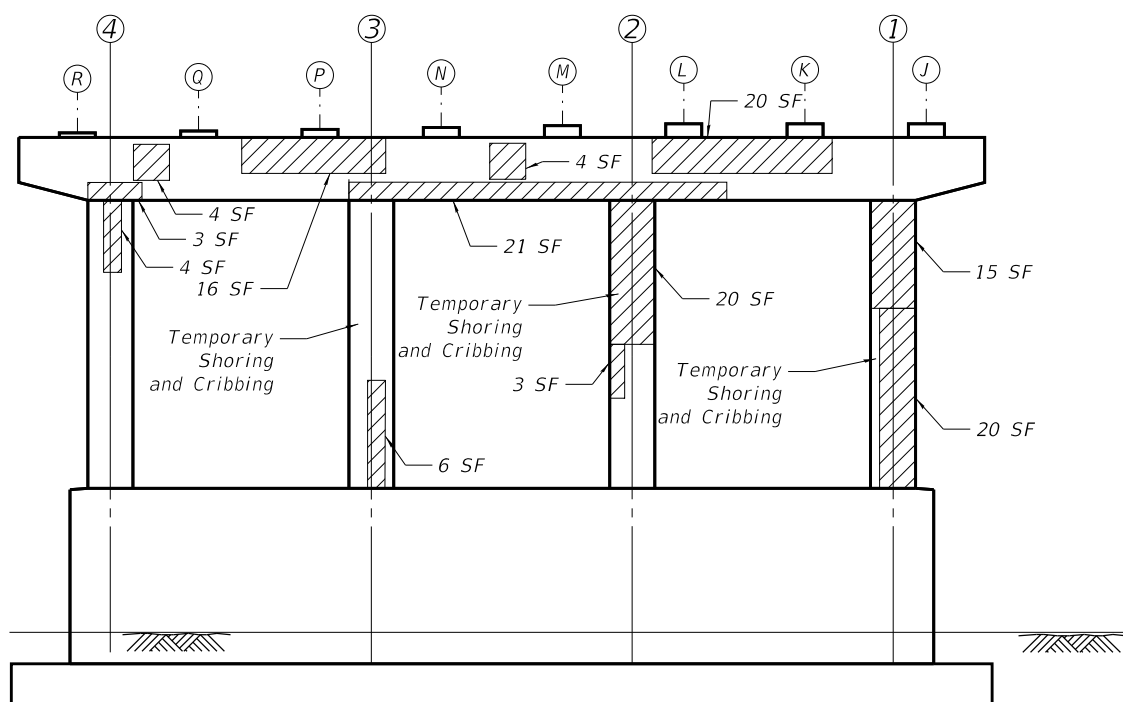
	PIER 3 GIRDER REACTION TABLE	
	Span 3	Span 4
R_{DL} (k)	36.5	36.5
R_{SDL} (k)	5.0	5.0
R_{LL} (k)	33.6	34.6
R_i (k)	8.7	8.9
R_{Total} (k)	83.8	85.0

Note:

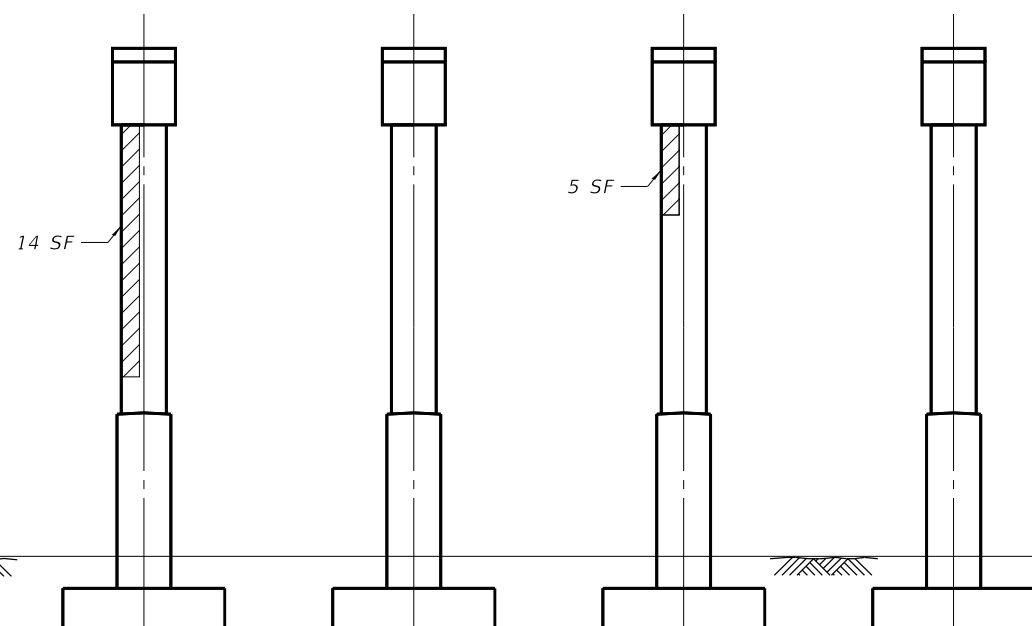
Reactions provided are maximum for the girder in the span indicated. Contractor shall verify loading at each shoring location. Cost included in the pay item 'Temporary Shoring and Cribbing'.

BILL OF MATERIAL
SN 016-2512 (SB)

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	579
Concrete Sealer	Sq. Ft.	579
Temporary Shoring and Cribbing	Each	11



SB PIER 3 ELEVATION
(Looking North)



COLUMN 4 (Looking West)
COLUMN 3 (Looking West)
COLUMN 2 (Looking West)
COLUMN 1 (Looking West)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

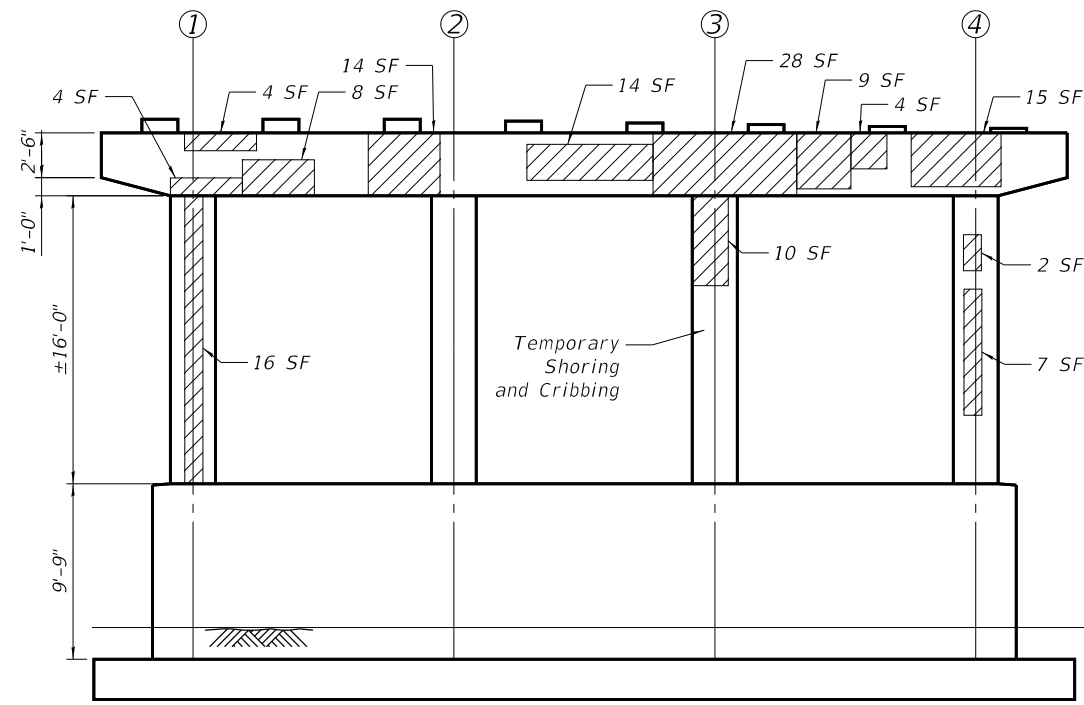
SN 016-2512 (SB), SN 016-2513 (NB)
SB PIER 3 REPAIRS

SCALE: SHEET 5-30 OF 5-42 SHEETS STA. TO STA.

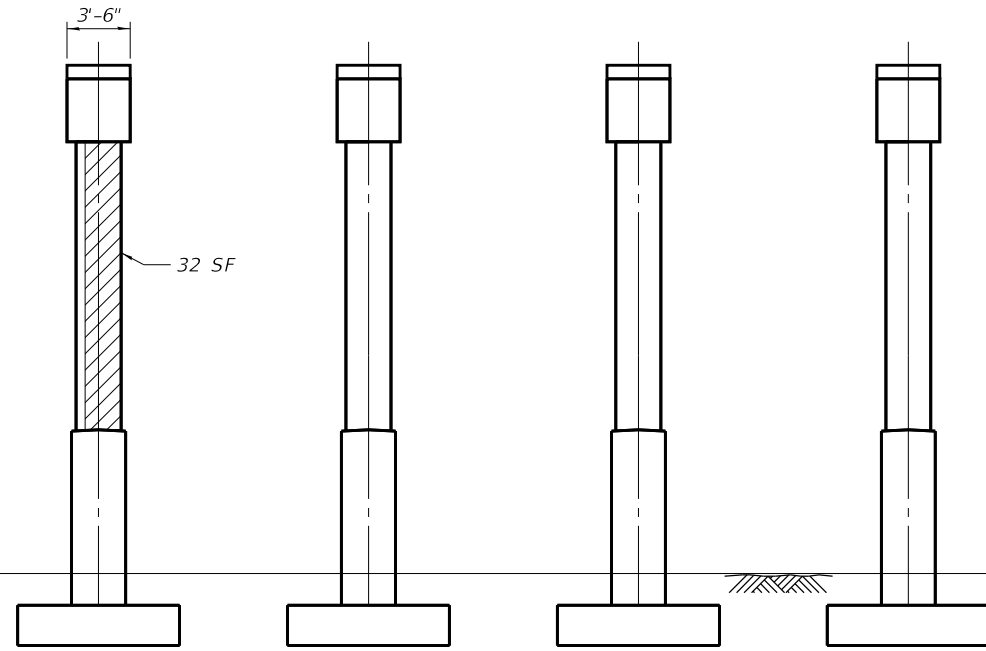
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	67
				CONTRACT NO. 62H50
				ILLINOIS FED. AID PROJECT

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DESIGNED: JM
DRAWN: JM
CHECKED: BGK
DATE: 10/15/2020
REVISED: -
REVISED: -
REVISED: -
REVISED: -





SB PIER 7 ELEVATION
(Looking South)



COLUMN 1
(Looking East)

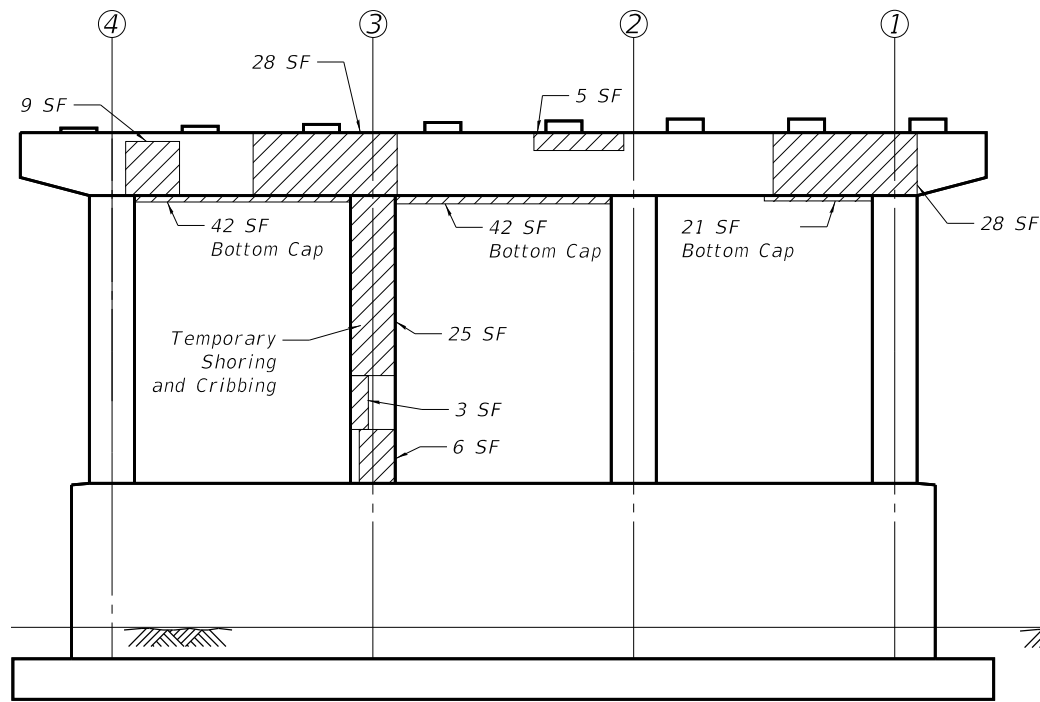
COLUMN 2
(Looking East)

COLUMN 3
(Looking East)

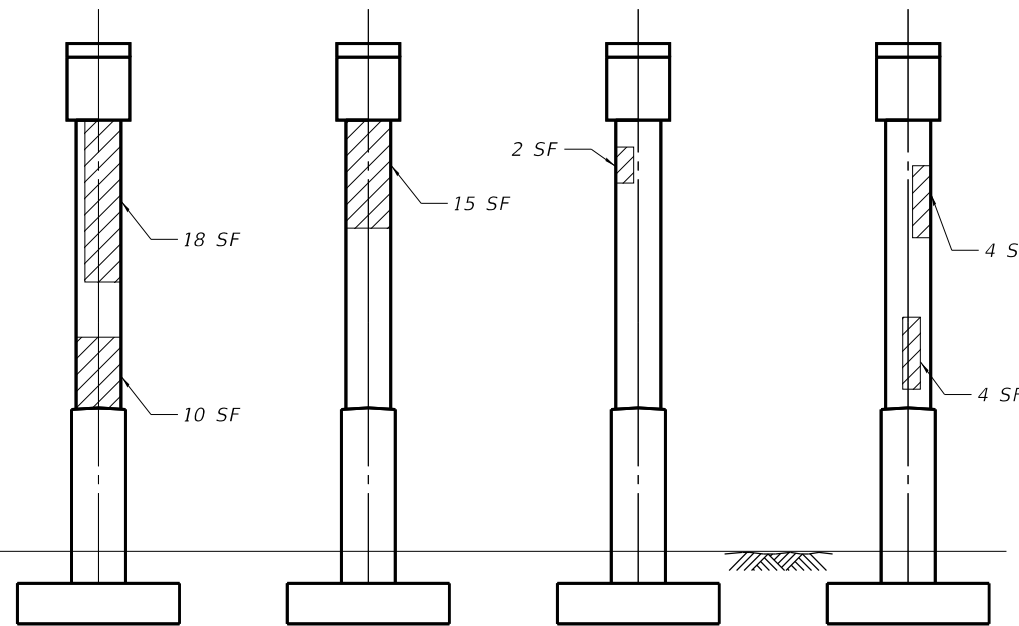
COLUMN 4
(Looking East)

LEGEND:

Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)



SB PIER 7 ELEVATION
(Looking North)



COLUMN 4
(Looking West)

COLUMN 3
(Looking West)

COLUMN 2
(Looking West)

COLUMN 1
(Looking West)

PIER 7 GIRDER REACTION TABLE		
	Span 7	Span 8
R_{DL} (k)	38.6	18.9
R_{SDL} (k)	5.2	2.4
R_{LL} (k)	33.9	28.3
R_I (k)	8.6	8.8
R_{Total} (k)	86.3	58.4

Note:

Reactions provided are maximum for the girder in the span indicated. Contractor shall verify loading at each shoring location. Cost included in the pay item 'Temporary Shoring and Cribbing'.

BILL OF MATERIAL
SN 016-2512 (SB)

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	429
Concrete Sealer	Sq. Ft.	429
Temporary Shoring and Cribbing	Each	2

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 PLOT DATE = 10/14/2020

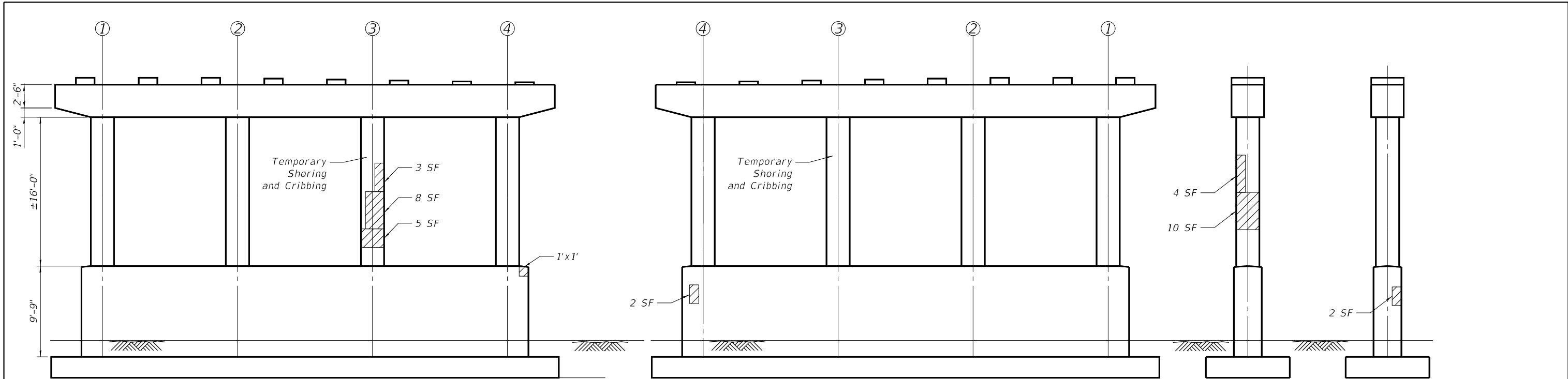


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

SN 016-2512 (SB), SN 016-2513 (NB)
SB PIER 7 REPAIRS

SCALE: SHEET 5-31 OF 5-42 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	68
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				



SB PIER 9 ELEVATION
(Looking South)

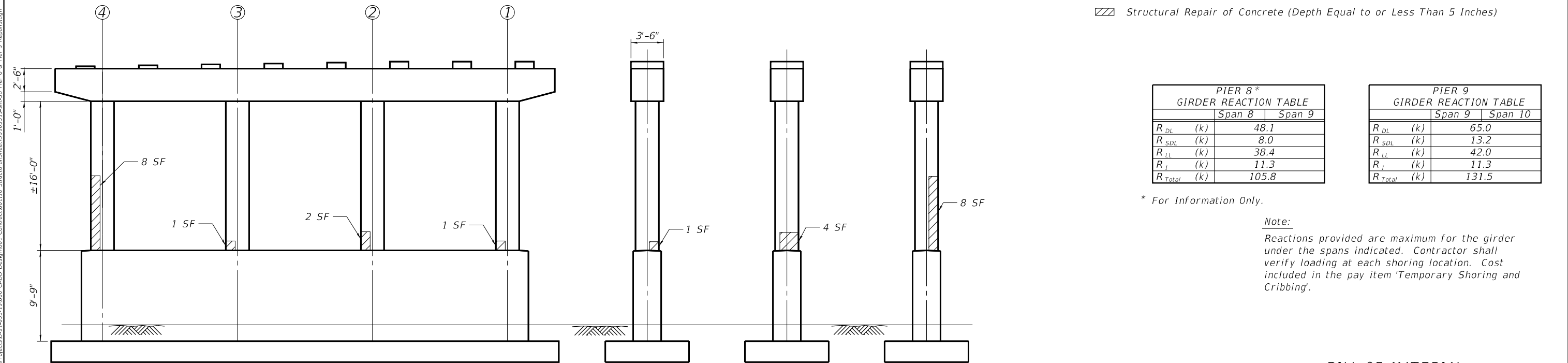
SB PIER 9 ELEVATION
(Looking North)

PIER 9 COLUMN 3
(Looking East)

PIER 9 COLUMN 4
(Looking East)

LEGEND:

▨ Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)



SB PIER 8 ELEVATION
(Looking North)

PIER 8 COLUMN 1
(Looking East)

PIER 8 COLUMN 2
(Looking East)

PIER 8 COLUMN 4
(Looking East)

PIER 8* GIRDER REACTION TABLE

	Span 8	Span 9
R_{DL} (k)	48.1	
R_{SDL} (k)	8.0	
R_{LL} (k)	38.4	
R_I (k)	11.3	
R_{Total} (k)	105.8	

PIER 9 GIRDER REACTION TABLE

	Span 9	Span 10
R_{DL} (k)	65.0	
R_{SDL} (k)	13.2	
R_{LL} (k)	42.0	
R_I (k)	11.3	
R_{Total} (k)	131.5	

* For Information Only.

Note:

Reactions provided are maximum for the girder under the spans indicated. Contractor shall verify loading at each shoring location. Cost included in the pay item 'Temporary Shoring and Cribbing'.

**BILL OF MATERIAL
SN 016-2512 (SB)**

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	60
Temporary Shoring and Cribbing	Each	2

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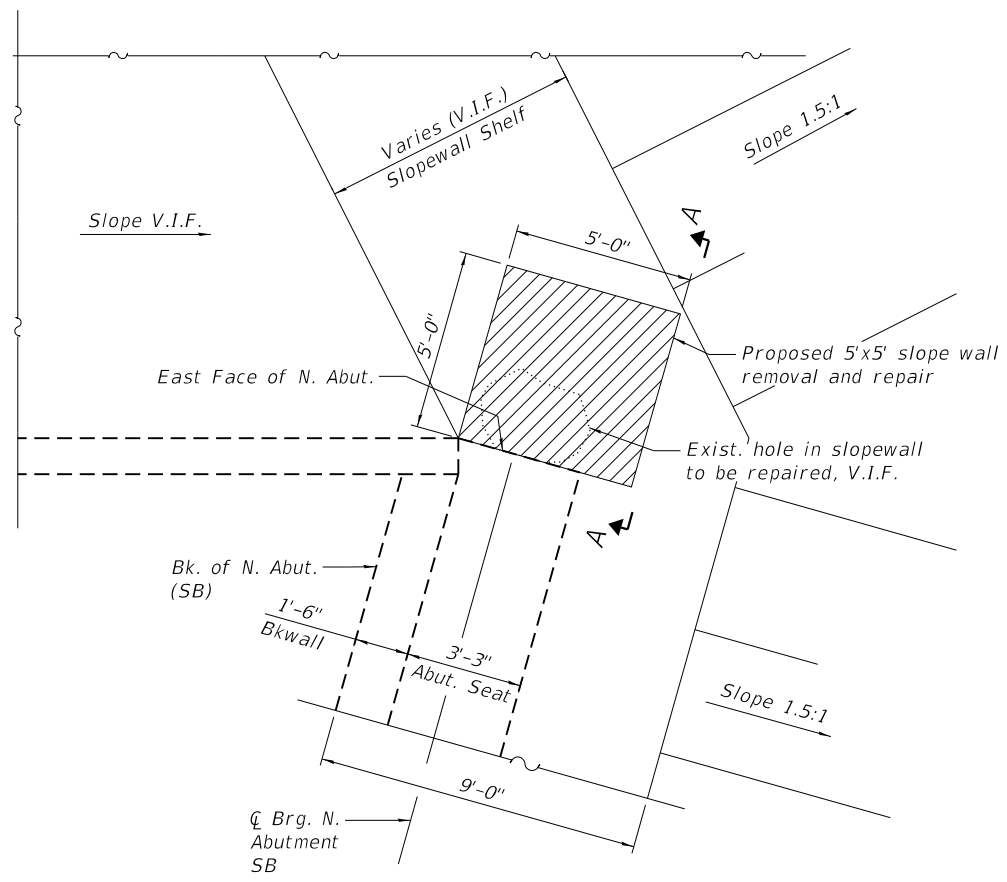


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

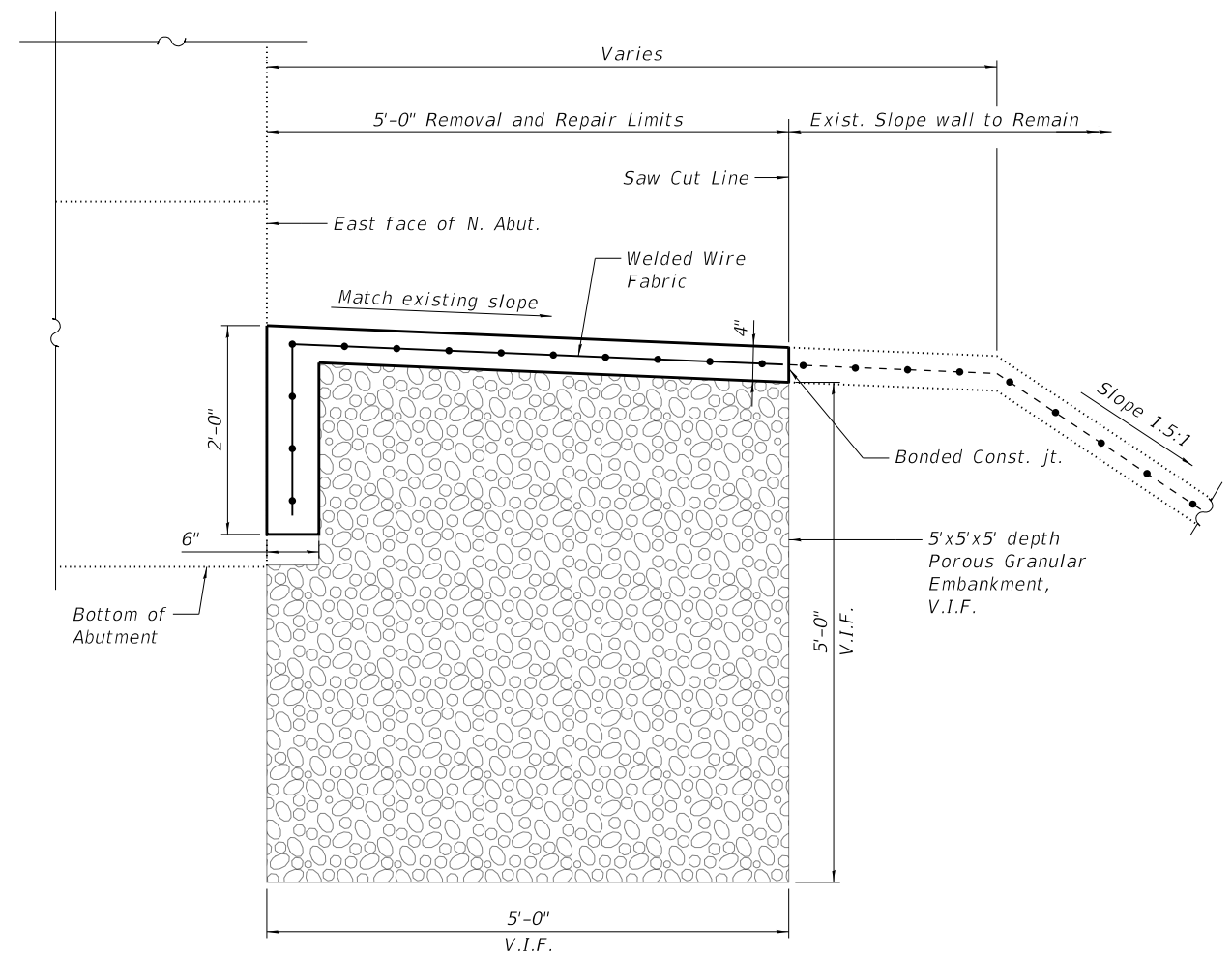
**SN 016-2512 (SB), SN 016-2513 (NB)
SB PIER 8 & PIER 9 REPAIRS**

SCALE: SHEET 5-32 OF 5-42 SHEETS STA. TO STA.

F.A.P. RTE. 350	SECTION 2018-124-BR	COUNTY COOK	TOTAL SHEETS 95	SHEET NO. 69
				CONTRACT NO. 62H50
ILLINOIS FED. AID PROJECT				



SLOPE WALL REPAIR PLAN
SN 016-2512



SECTION A - A



SLOPE WALL REPAIR AREA
Looking South West

East Face of N. Abut. (SB)
Location of hole in Slopewall
Proposed 5'x5' slope wall removal and repair

LEGEND



BILL OF MATERIAL
SN 016-2512 (SB)

Item	Unit	Quantity
Porous Granular Embankment	Cu. Yd.	5
Protective Coat	Sq. Yd.	3
Slope Wall Removal	Sq. Yd.	3
Slope Wall 4 Inch	Sq. Yd.	3

Notes:

- Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0xW4.0 weighing 58 lbs per 100 Sq. Ft.
- Apply Protective Coat to new concrete only.

MODEL: Default
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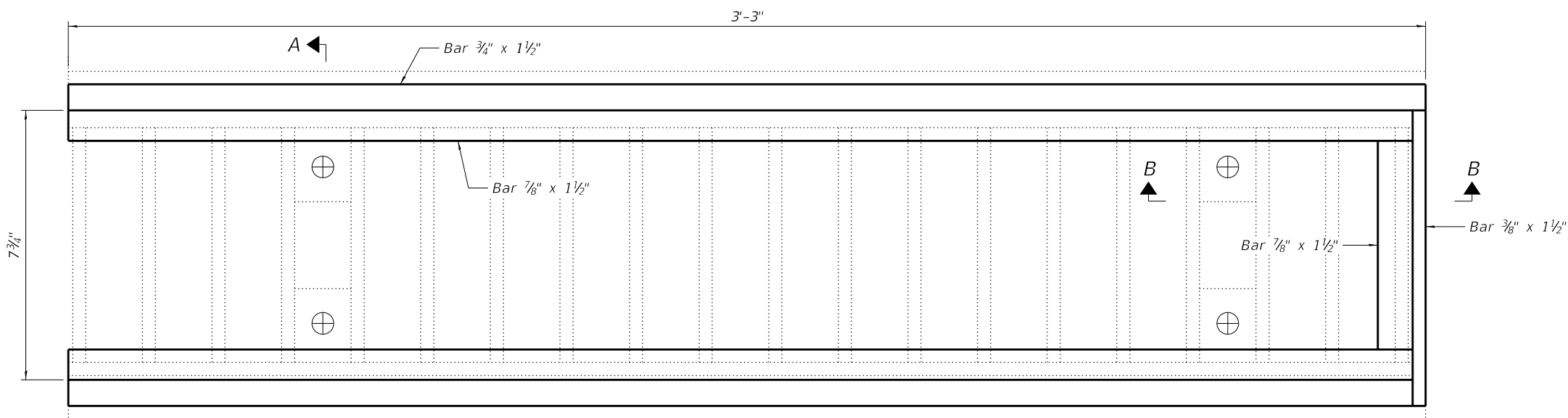
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

SN 016-2512 (SB), SN 016-2513 (NB)
SLOPEWALL REPAIR PLAN

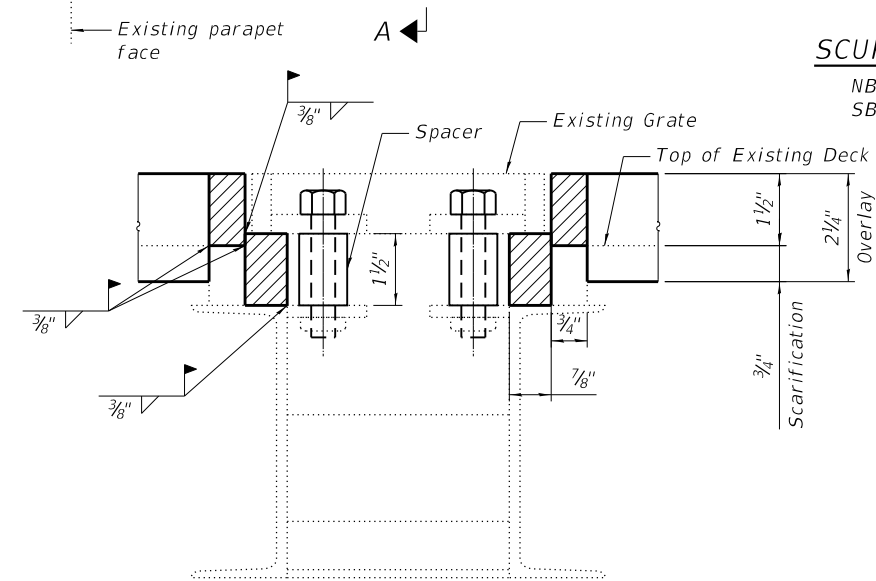
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F.A.P. RTE. 350	SECTION 2018-124-BR	COUNTY COOK	TOTAL SHEETS 95	SHEET NO. 70
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H50	



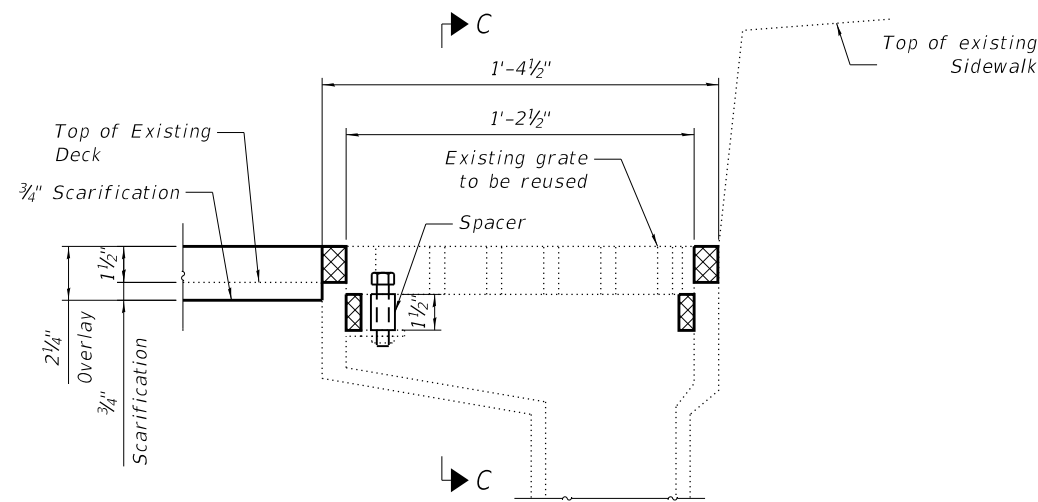
GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36. The adjusting scupper ring shall be galvanized.
 Bolts shall be 1/2"Ø, AASHTO M164 Type I, mechanically galvanized.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 The contractor shall ensure that no damage is done to existing grates to be reused.
 Shop plans for proposed adjusting scupper ring shall be submitted for approval prior to fabrication.
 Cost of all labor and materials necessary to remove existing grates, clean existing scuppers, install adjusting scupper rings and reinstalling grates is included in the cost per unit each for "Drainage Scuppers to Be Adjusted".



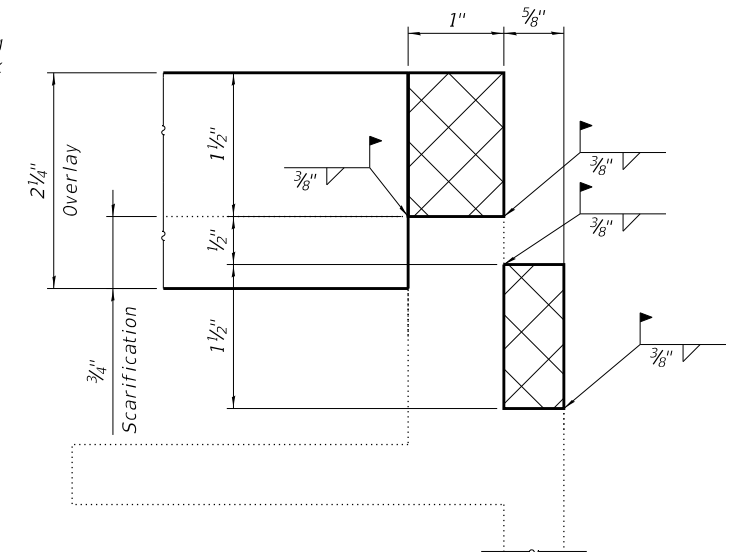
SCUPPER TYPE A

NB - West Curb
 SB - East Curb

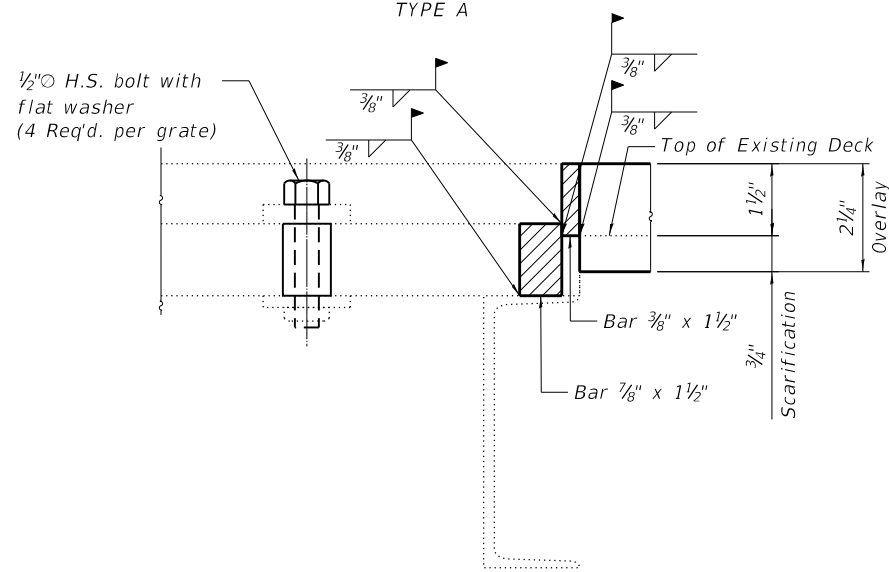


SCUPPER TYPE B

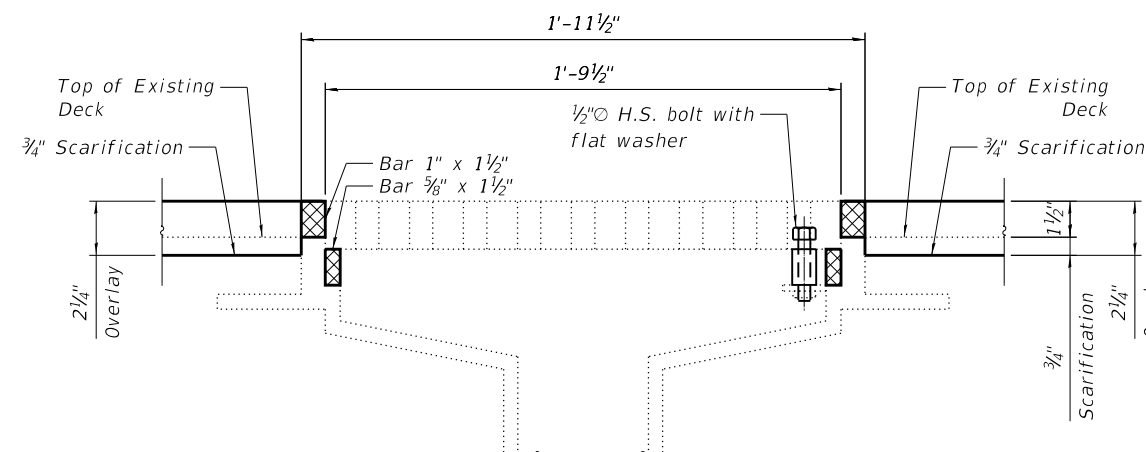
NB - East Curb/Sidewalk
 SB - West Curb/Sidewalk



**SCUPPER TYPE B
 ADJUSTING SCUPPER RING**



**SECTION B-B
 TYPE A**



**SECTION C-C
 TYPE B**

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

**SN 016-2512 (SB), SN 016-2153 (NB)
 DRAINAGE SCUPPER ADJUSTMENT DETAILS**

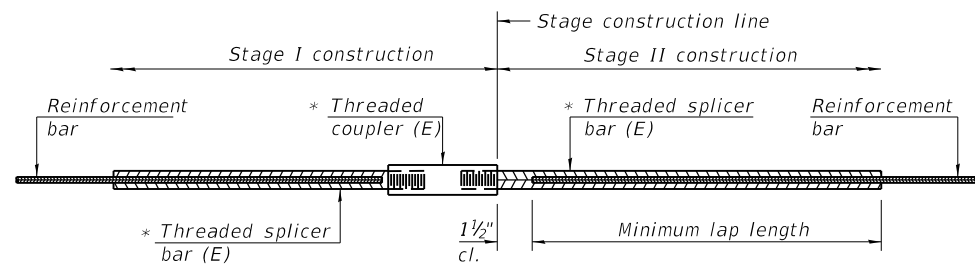
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	71
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H50	

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 CADD: D:\Projects\15-15-sht-Drainage Scupper Adjustment Details
 CONTRACT: 801.10 StructuralSteel\0910515-sht-Drainage Scupper Adjustment Details



FILE NAME =	USER NAME = anthony.friedman	DESIGNED - LS	REVISED -
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PLOT DATE = 10/14/2020		DATE - 10/15/2020	REVISED -

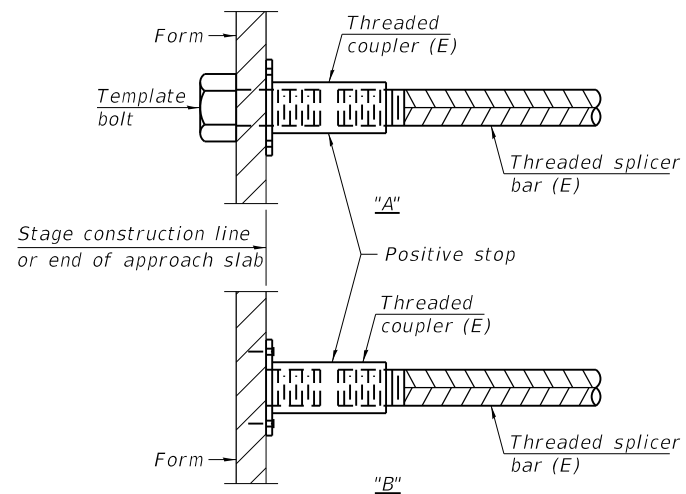


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

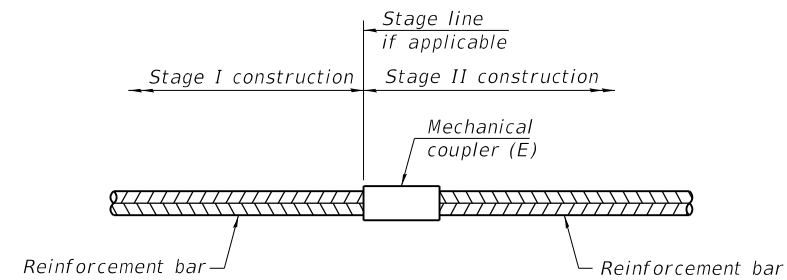
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
SB N. Abut.	#5	8	3'-3"
SB Pier 3	#5	8	3'-3"
SB Pier 7	#5	8	3'-3"
SB S. Abut.	#5	8	3'-3"
NB N. Abut.	#5	8	3'-3"
NB Pier 4	#5	8	3'-3"
NB S. Abut.	#5	8	3'-3"



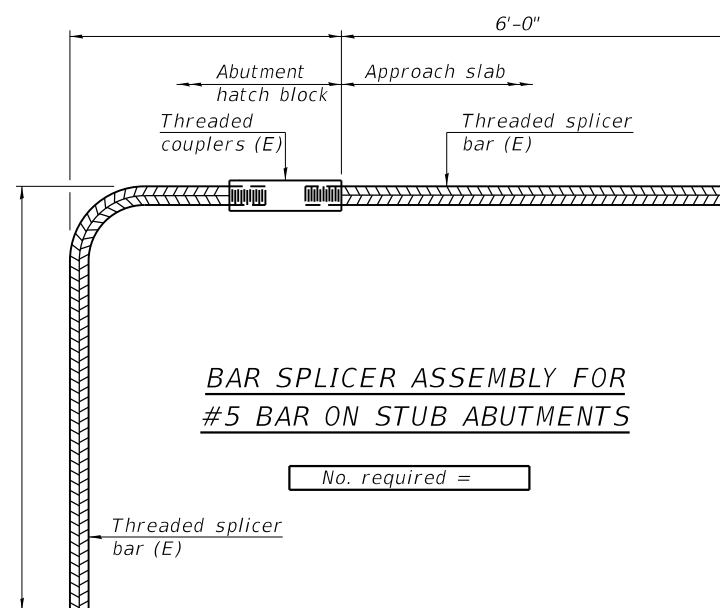
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 2-17-2017

MODEL: Default
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 USER: anthony.friedman
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 PLOT DATE: = 10/14/2020

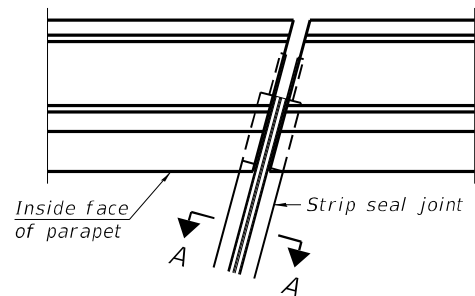
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

SN 016-2512 (SB), SN 016-2513 (NB)
BAR SPLICERS (BASE SHEET)

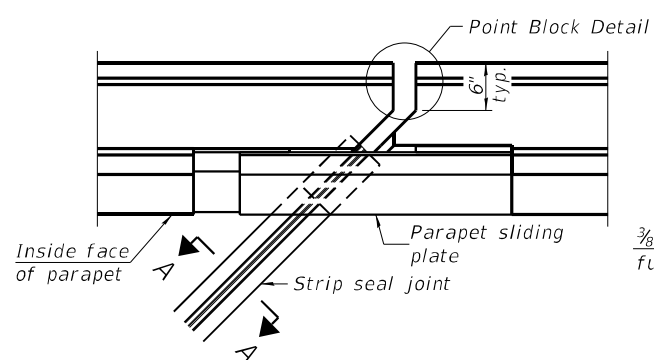
SCALE: SHEET 5-35 OF 5-42 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62H50			ILLINOIS FED. AID PROJECT	

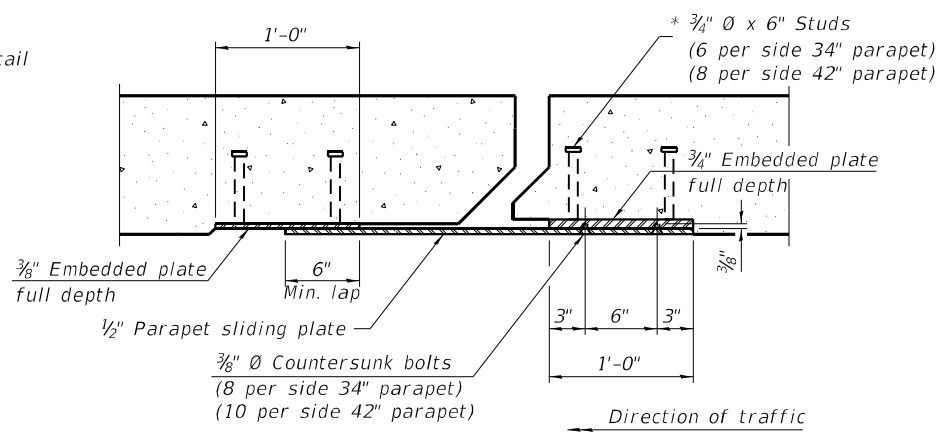


FOR SKEWS ≤ 30°

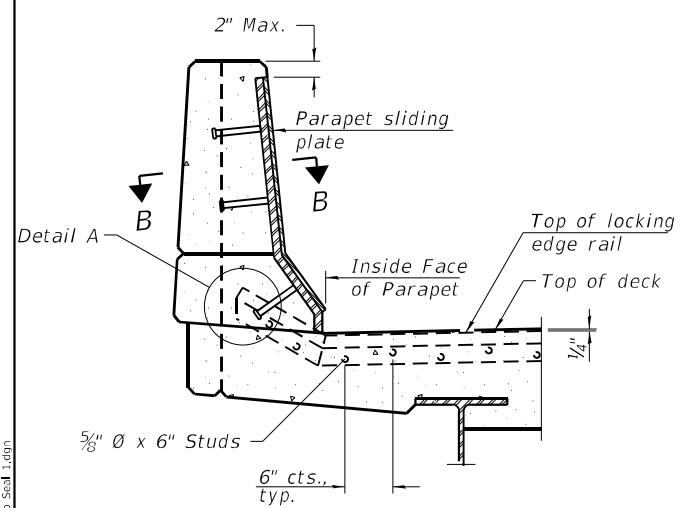
PLAN AT PARAPET



FOR SKEWS > 30°

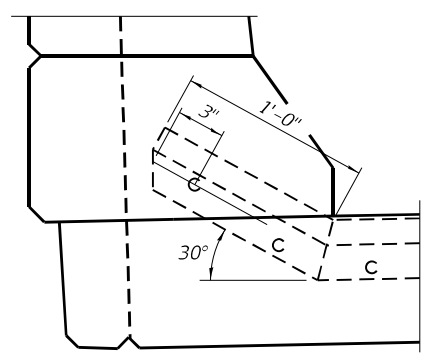


SECTION B-B

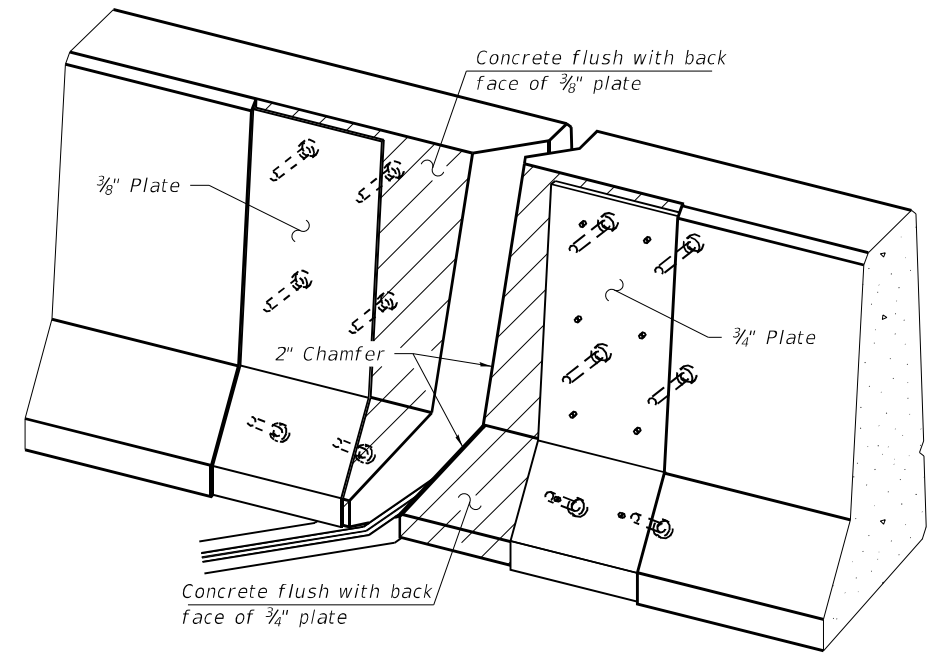


ELEVATION AT PARAPET

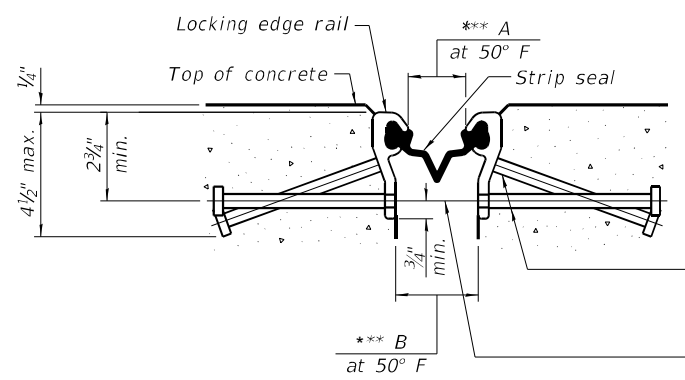
(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)



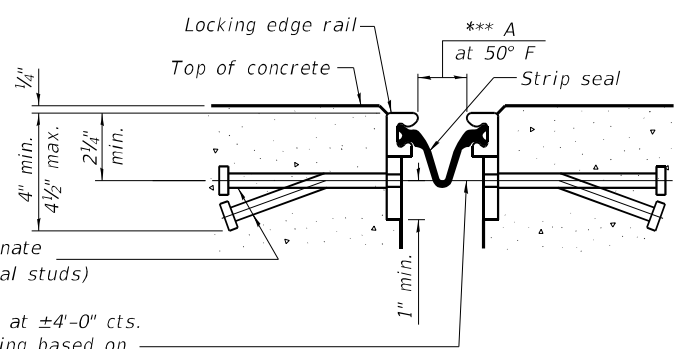
SHOWING ROLLED RAIL JOINT

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

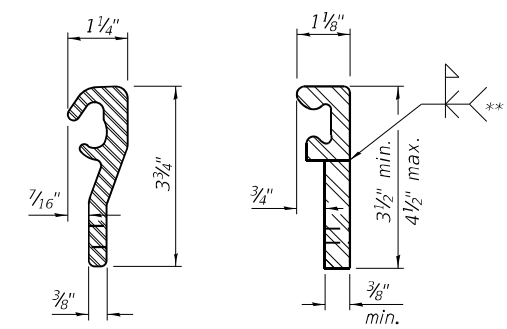
3/8" Ø threaded rods in 1/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.
*** For A and B see individual Expansion Joint Sheet.



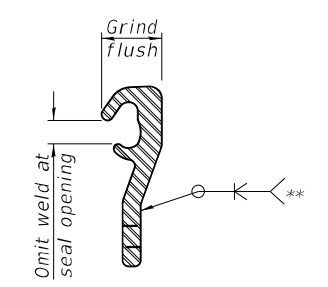
SHOWING WELDED RAIL JOINT



ROLLED (EXTRUDED) RAIL WELDED RAIL

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	364

Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
The manufacturer's recommended installation methods shall be followed.
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.
The top surface of sidewalk sliding plates shall have a raised pattern according to ASTM A786.
Cost of parapet sliding plates, sidewalk sliding plates, embedded plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.
34" F-shape barrier shown, 42" F-shape similar as noted.
The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

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 USER: c-friedmana
 PLOT SCALE: = 0.1667' / in.
 PLOT DATE: = 11/18/2020
 DESIGNED: JM
 DRAWN: JM
 CHECKED: BGK
 DATE: 10/15/2020
 REVISED: -
 REVISED: -
 REVISED: -
 REVISED: -

EJ-SS-S

8-11-17

(Sheet 1 of 3)

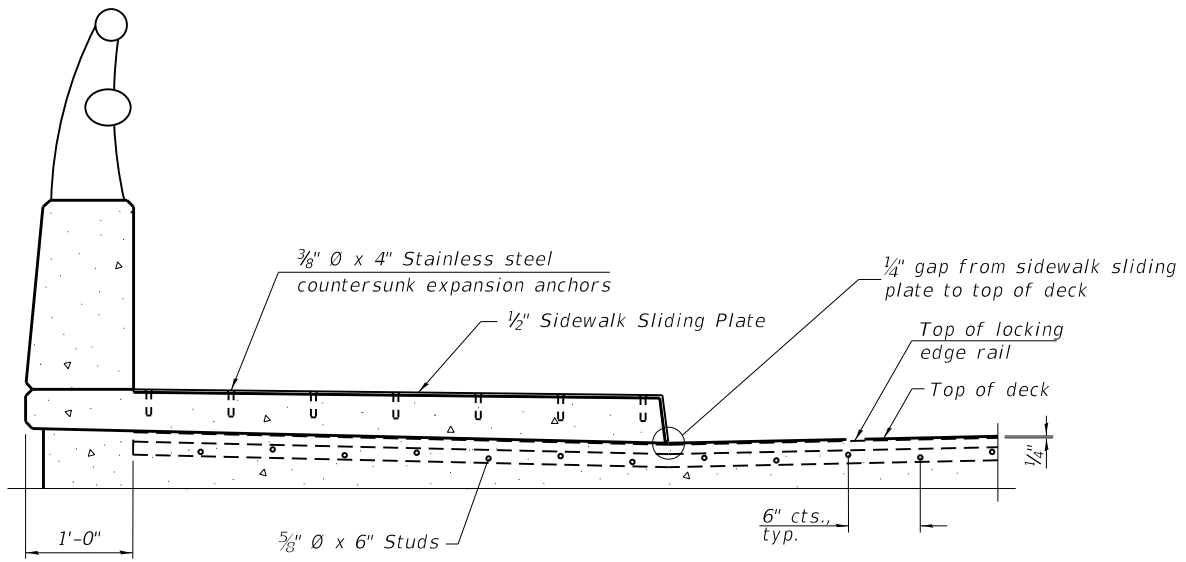
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

SN 016-2512 (SB), SN 016-2513 (NB)
PREFORMED JOINT STRIP SEAL 1

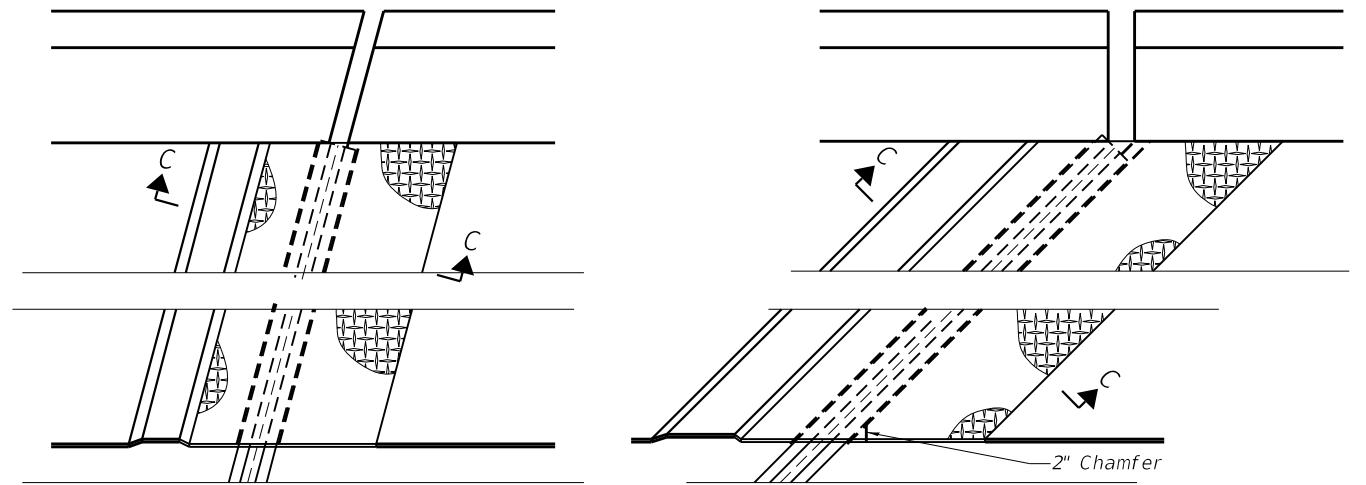
SCALE: SHEET 5-36 OF 5-42 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	73
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				

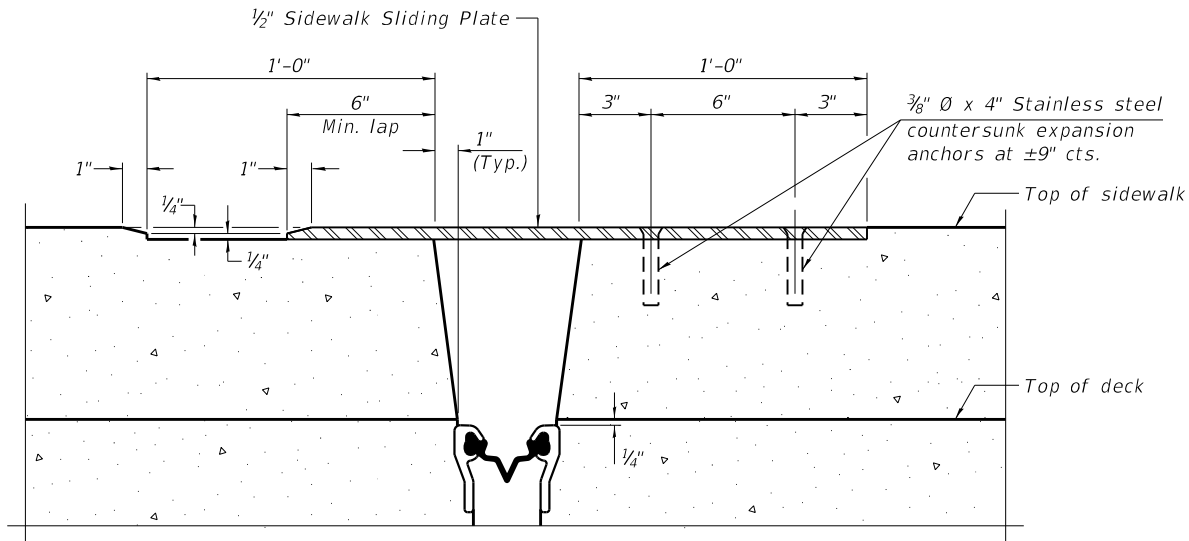




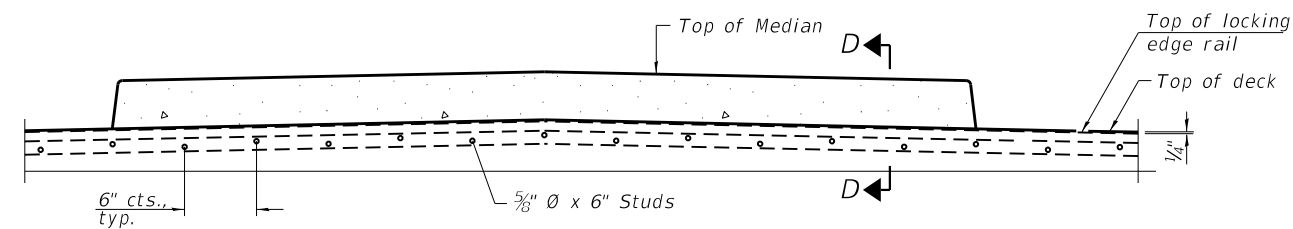
ELEVATION AT RAISED SIDEWALK



PLAN AT RAISED SIDEWALK

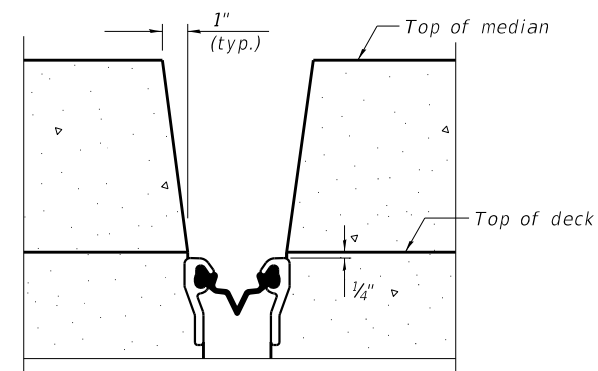


SECTION C-C



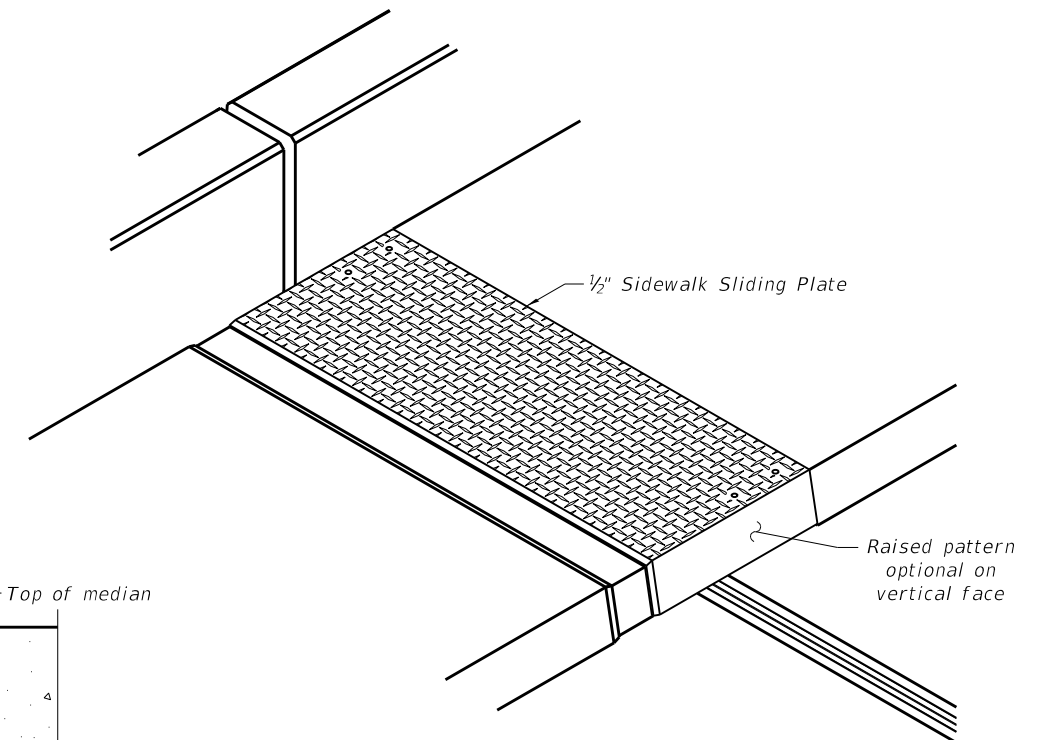
ELEVATION AT MEDIAN

For skews $> 30^\circ$, chamfer acute corners 2" similar to sidewalk.



SECTION D-D

(at Rt. L's)



TRIMETRIC VIEW

EJ-SS-S

8-11-17

(Sheet 2 of 3)

FILE NAME =	USER NAME = anthony.friedman	DESIGNED - JM	REVISED -
D9105519-sht-Preformed Joint Strip Seal 2.dgn		DRAWN - JM	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

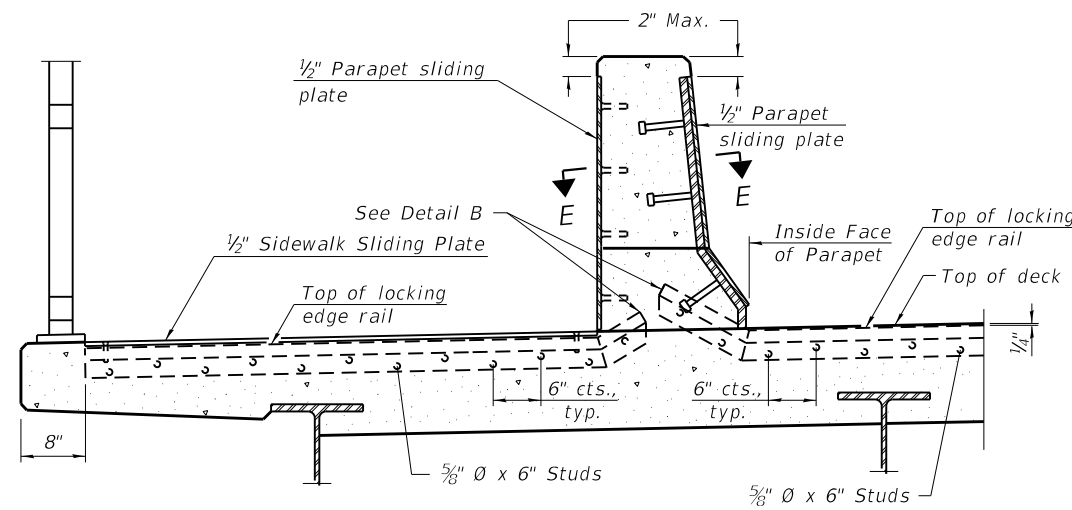
SN 016-2512 (SB), SN 016-2513 (NB)
 PREFORMED JOINT STRIP SEAL 2

SCALE: SHEET 5-37 OF 5-42 SHEETS STA. TO STA.

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				CONTRACT NO. 62H50
ILLINOIS FED. AID PROJECT				

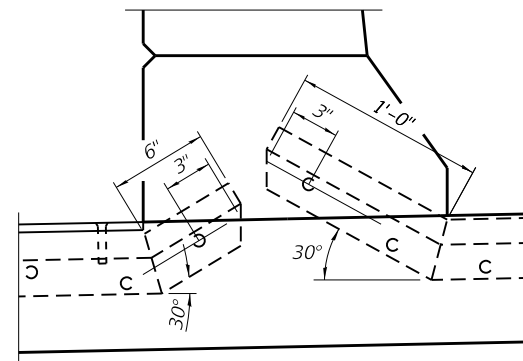
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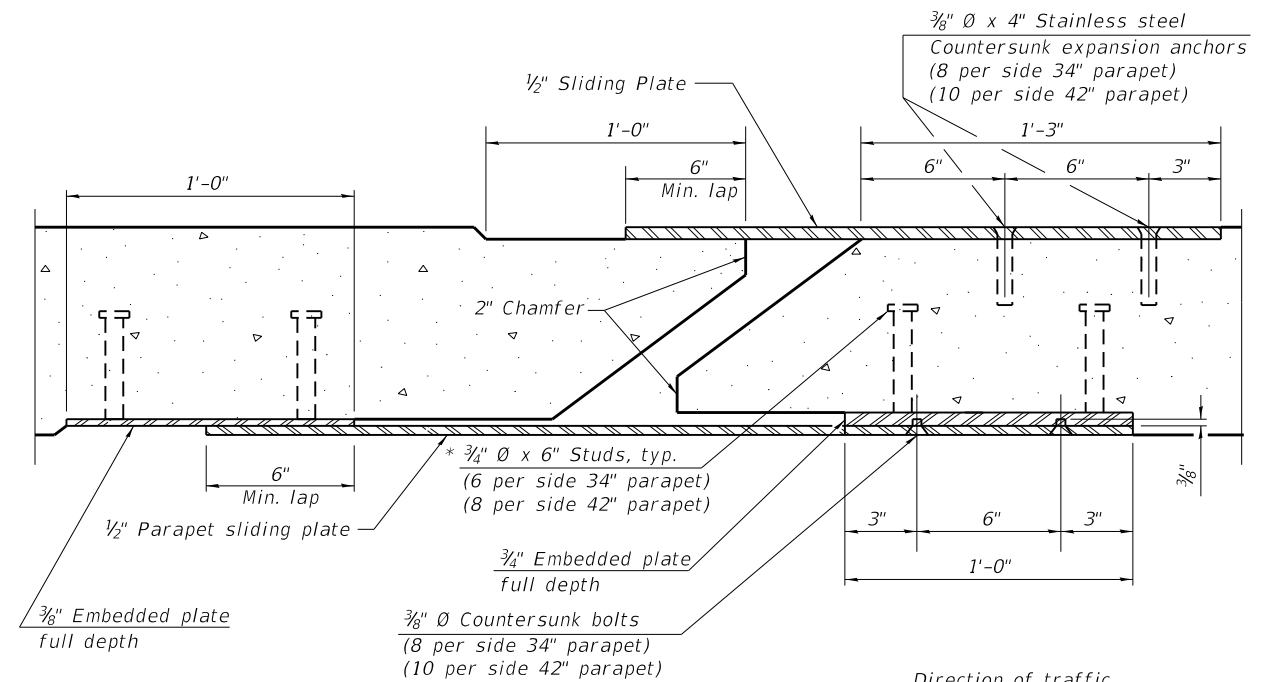


ELEVATION AT DECK LEVEL SIDEWALK

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)

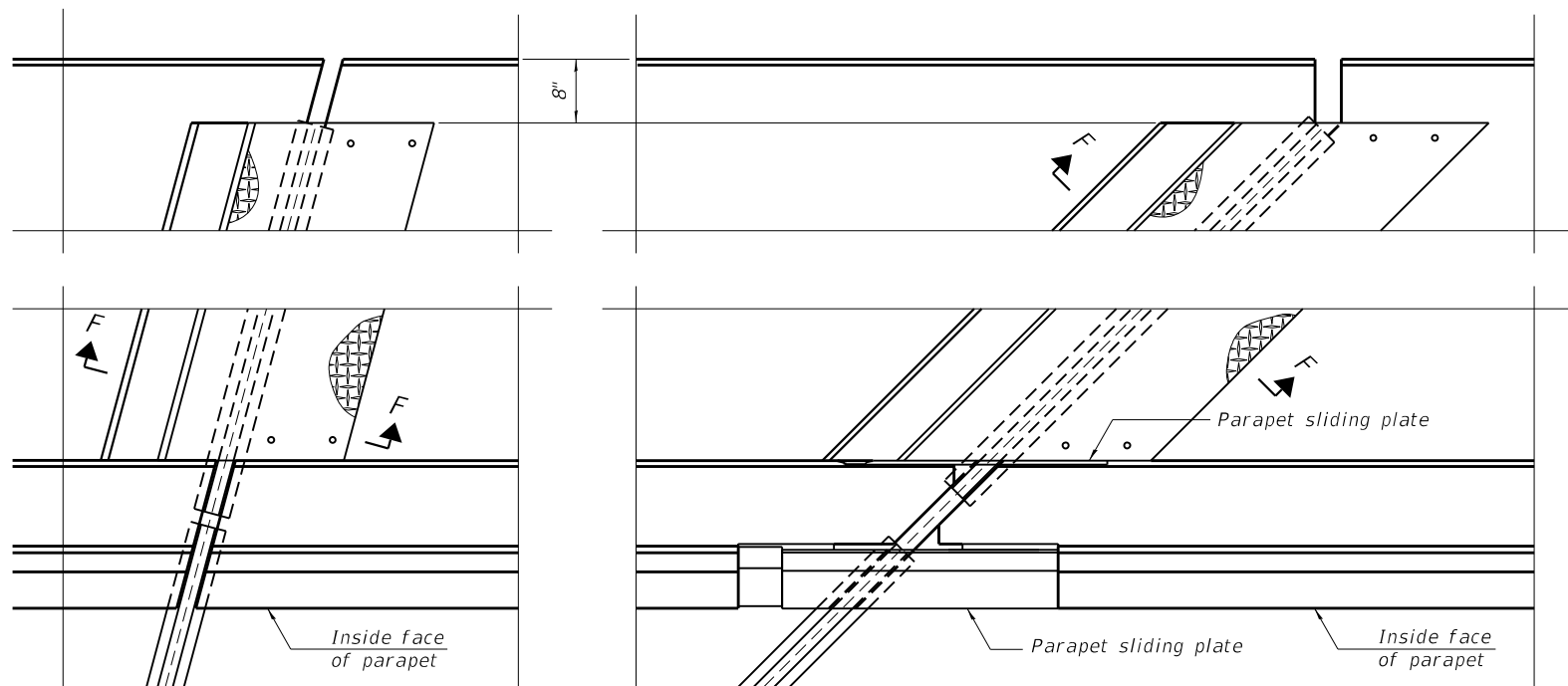


DETAIL B

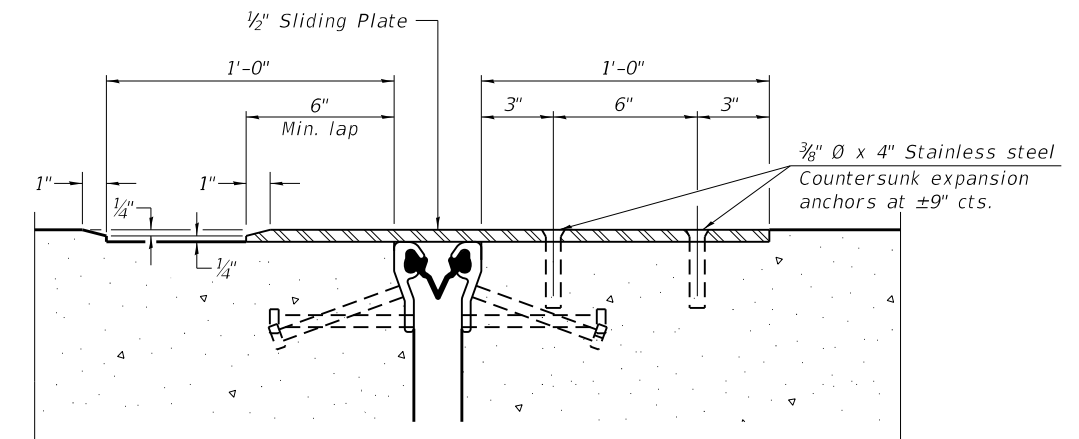


SECTION E-E

Direction of traffic



PLAN AT DECK LEVEL SIDEWALK



SECTION F-F

EJ-SS-S

8-11-17

(Sheet 3 of 3)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

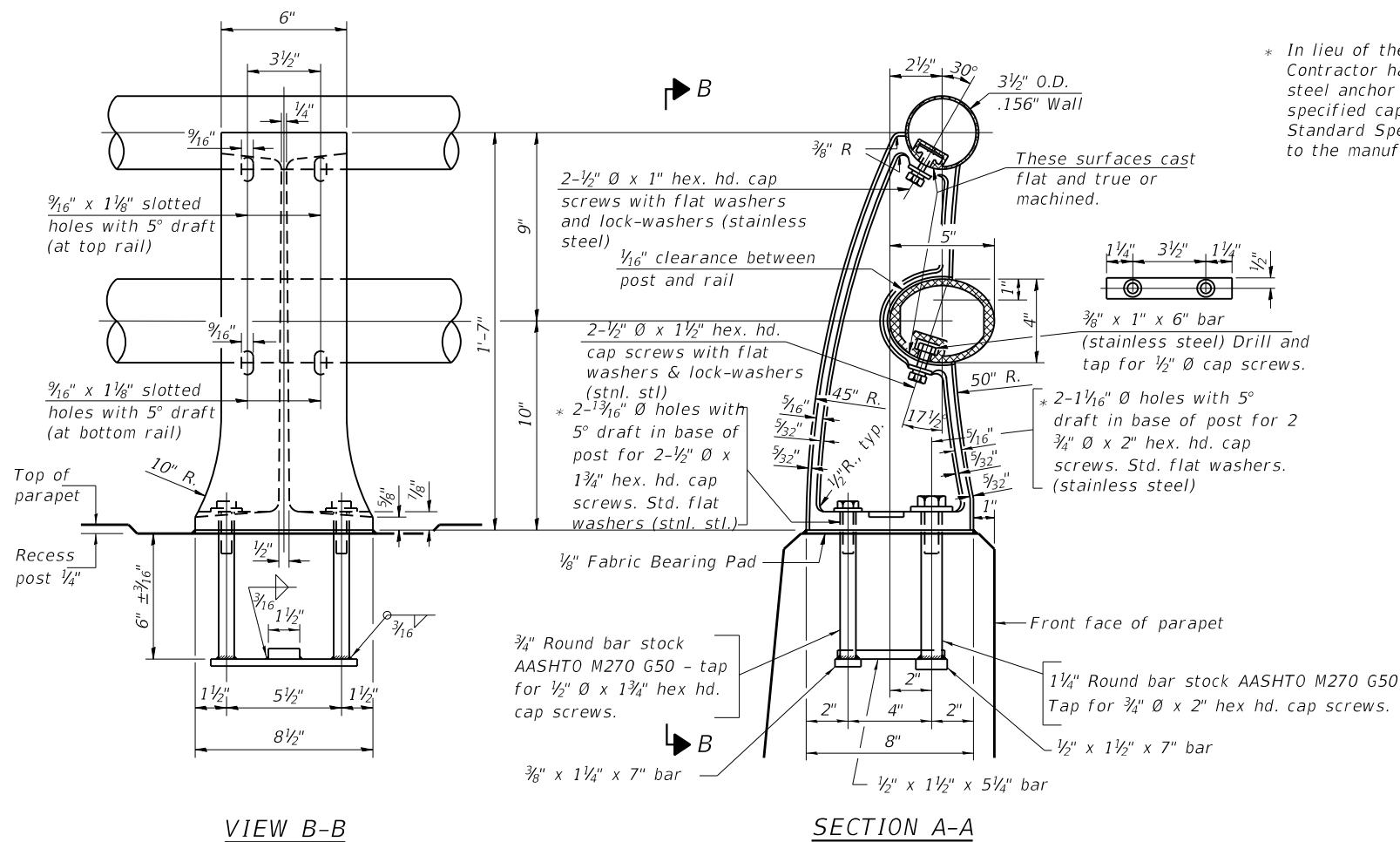
SN 016-2512 (SB), SN 016-2513 (NB)
PREFORMED JOINT STRIP SEAL 3

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				

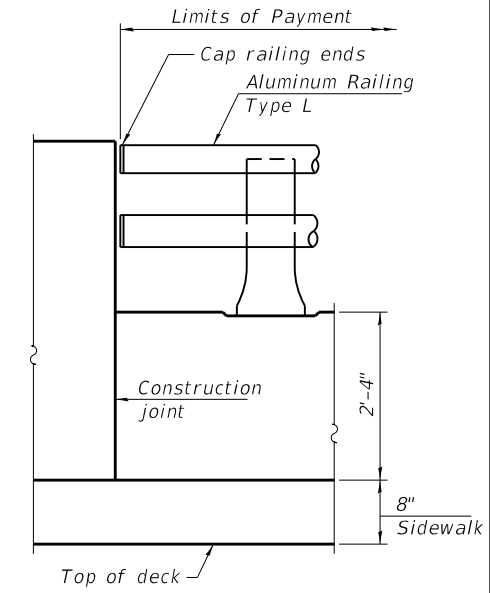
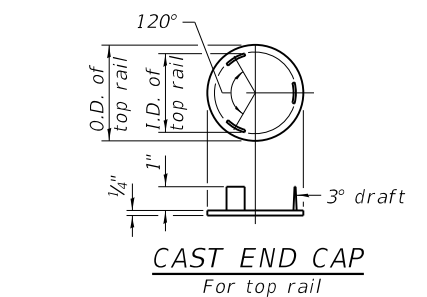
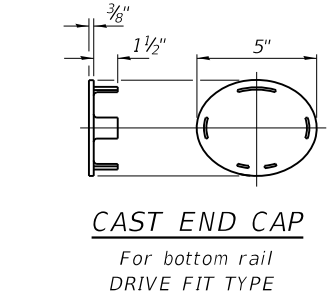
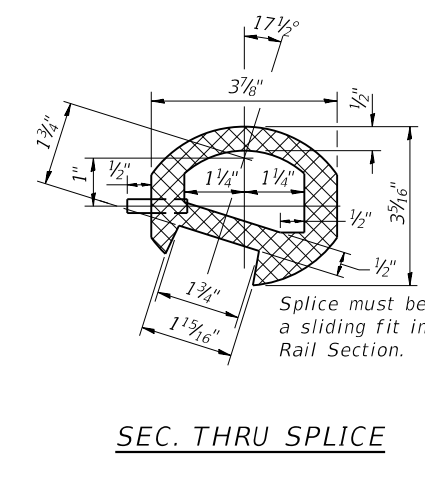
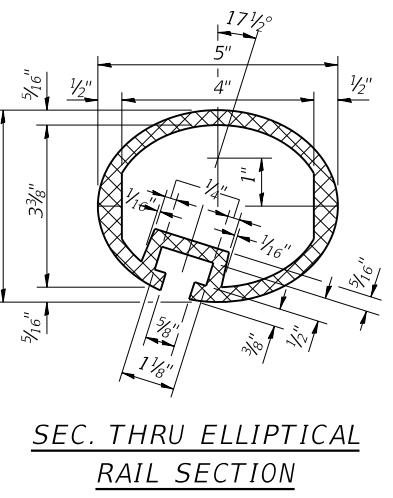
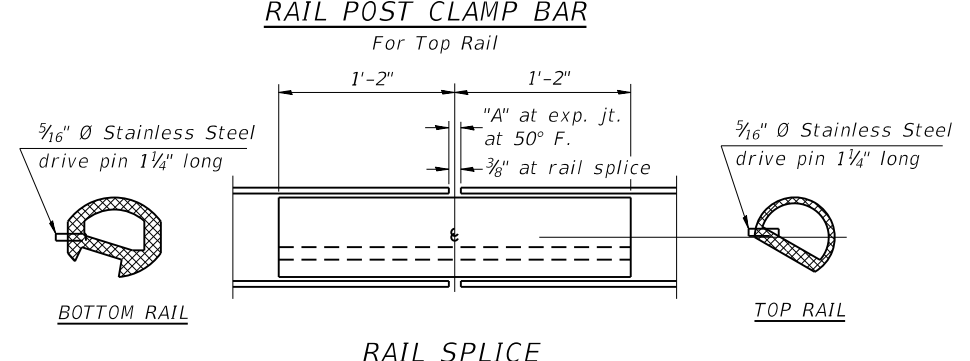
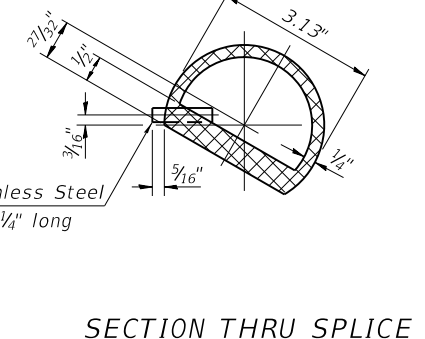
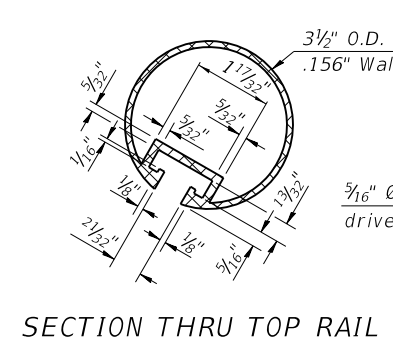
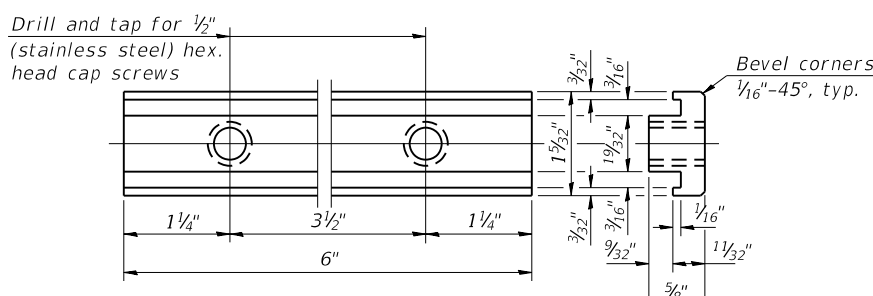
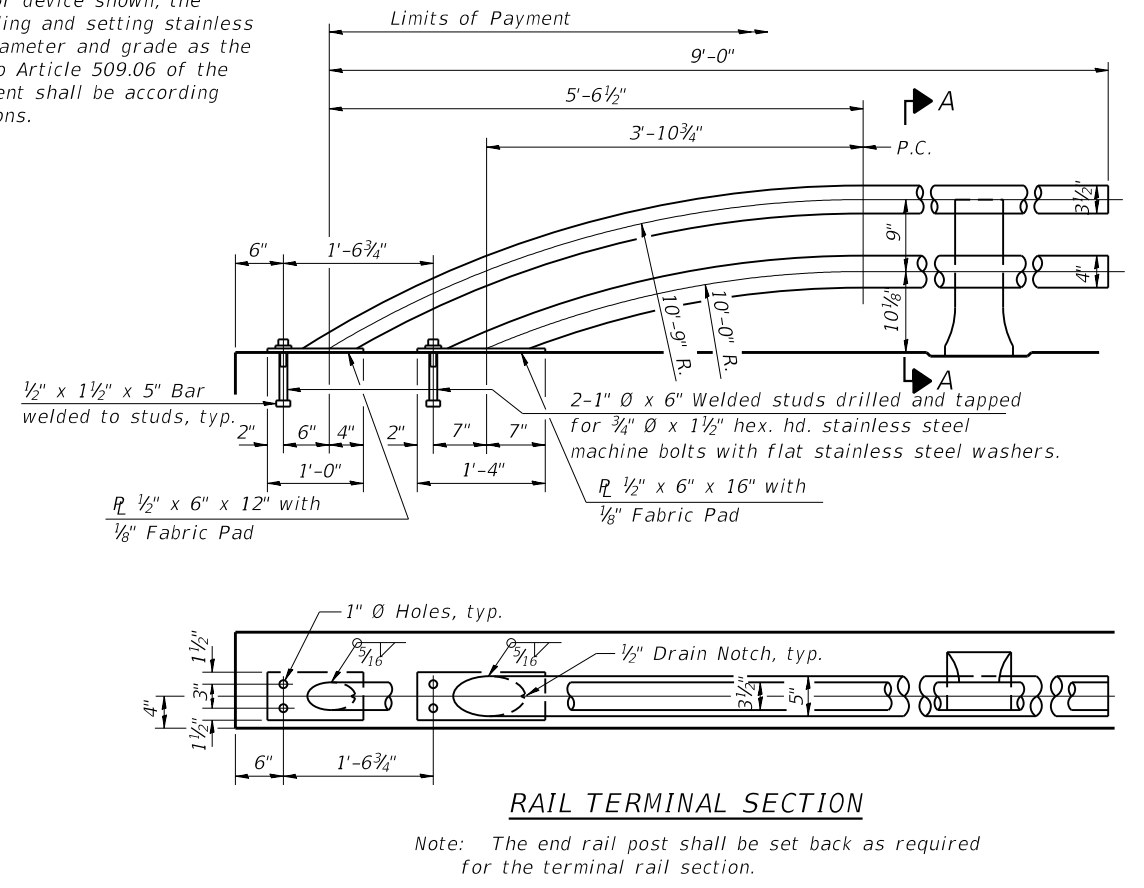
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 USER: anthony.friedman
 DESIGNED: JM
 DRAWN: JM
 CHECKED: BGK
 DATE: 10/15/2020
 REVISED: -
 REVISED: -
 REVISED: -
 REVISED: -

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* In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



Notes:
 All Posts shall be normal to parapet.
 All joints in rail shall be spliced per detail.
 All exposed rail ends shall be capped per detail.
 Provide 1-1/8" and 2-1/16" Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to Grade-high spots will be ground and low spots shimmed.
 See sheet of for rail post spacing.

THIS SHEET IS FOR INFORMATION ONLY

R-20 2-17-2017 (7'-0" to 10'-0" Post spacing)

T	"A"
≤ 4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"
> 6 1/2" ≤ 9"	5"
> 9" ≤ 13"	7"

T = Total movement at expansion joint as shown on the design plans.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

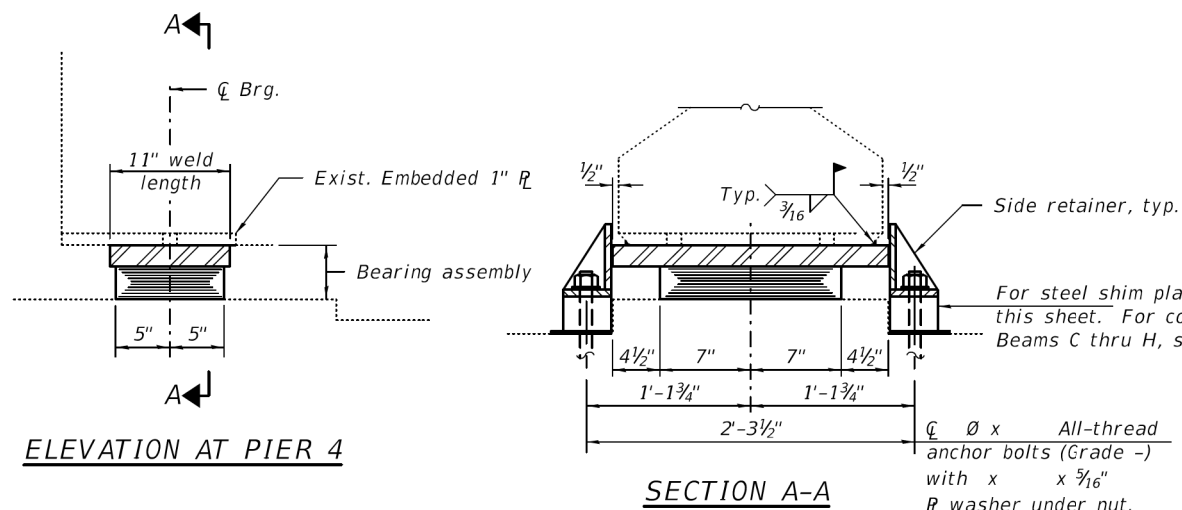
SN 016-2512 (SB), SN 016-2513 (NB)
RAILING (BASE SHEET)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	76
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 5-39 OF 5-42 SHEETS STA. TO STA.

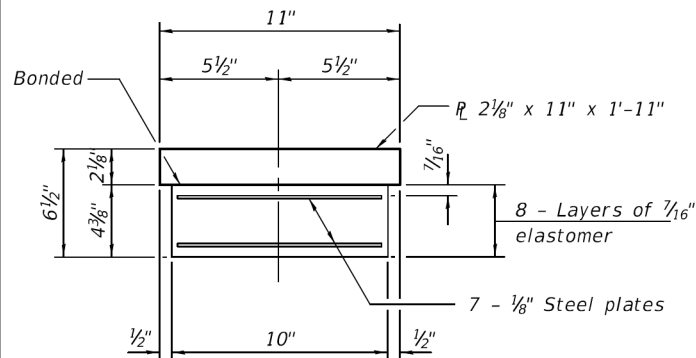
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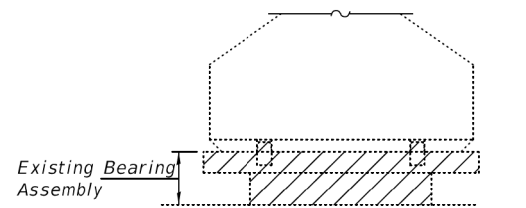


TYPE I ELASTOMERIC EXP. BRG.
(Beam B - N. Side)

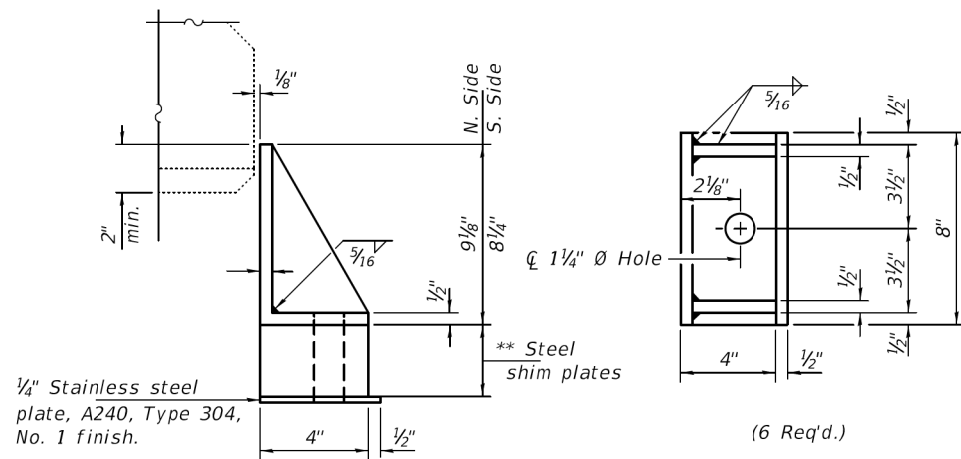
Notes:
Stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
Side retainers and steel shim plates shall be included in the cost of Furnishing & Erecting Structural Steel.
Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
All exposed bearing plates and side retainers shall be hot dip galvanized according to AASHTO M111.



BEARING ASSEMBLY



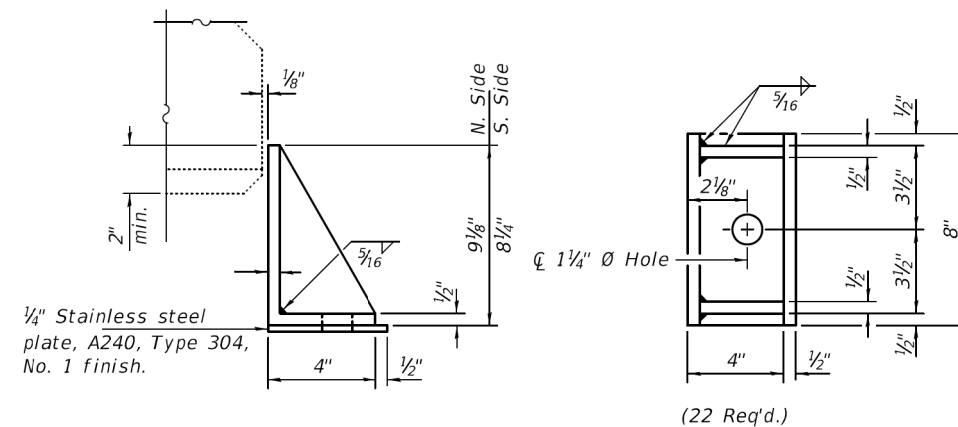
EXISTING BEARING REMOVAL DETAIL
Cost included with Jack and Remove Existing Bearings.



** 1 1/8" - Beam A - S. Side
1 3/4" - Beam A - N. Side
2 5/8" - Beam B - S. Side
3 1/4" - Beam B - N. Side

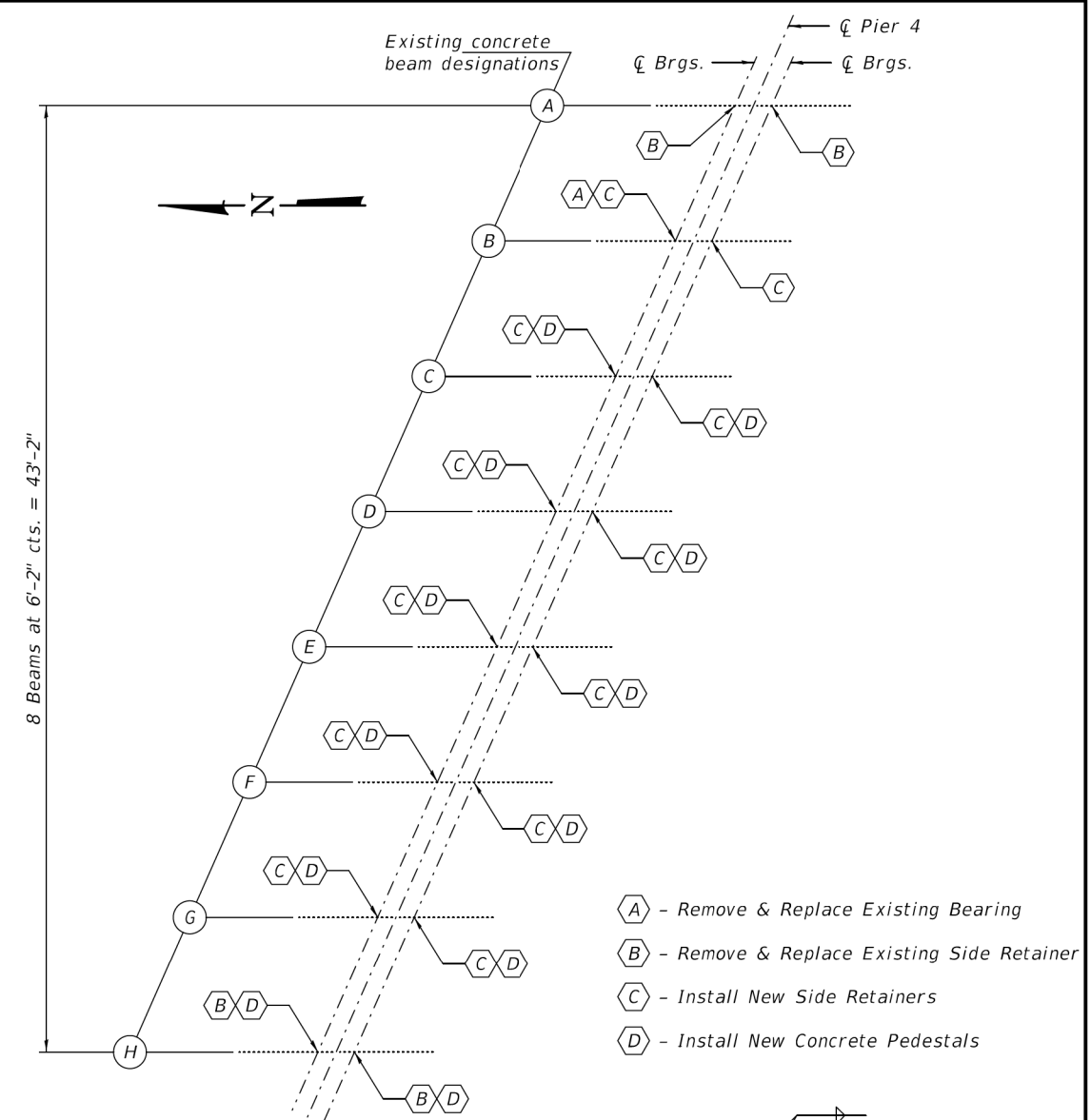
Note:
Minimum thickness for steel shim plates is 1".

SIDE RETAINER - BEAMS A & B
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

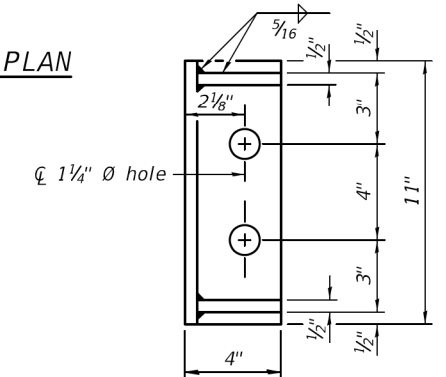


1/4" Stainless steel plate, A240, Type 304, No. 1 finish.

SIDE RETAINER - BEAMS C THRU H
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



PARTIAL FRAMING PLAN



BEAMS A & H
Outside faces only.
(4 Req'd.)

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	1
Furnishing & Erecting Structural Steel	Pound	200
Jack & Remove Existing Bearings	Each	1
Anchor Bolts	Each	32

DRAFT
DATE: 9/3/2020
EXPIRES 11-30-2020

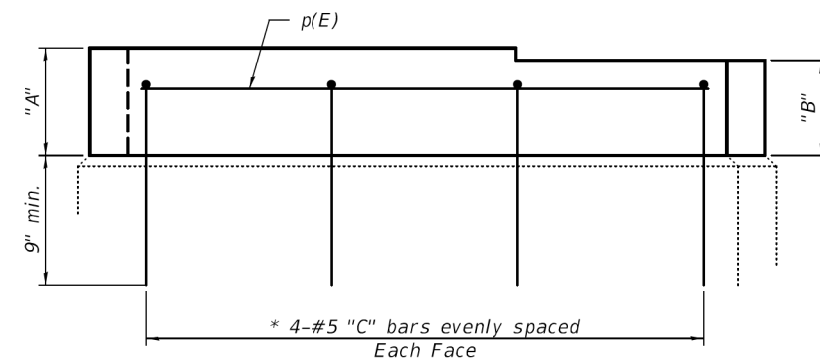
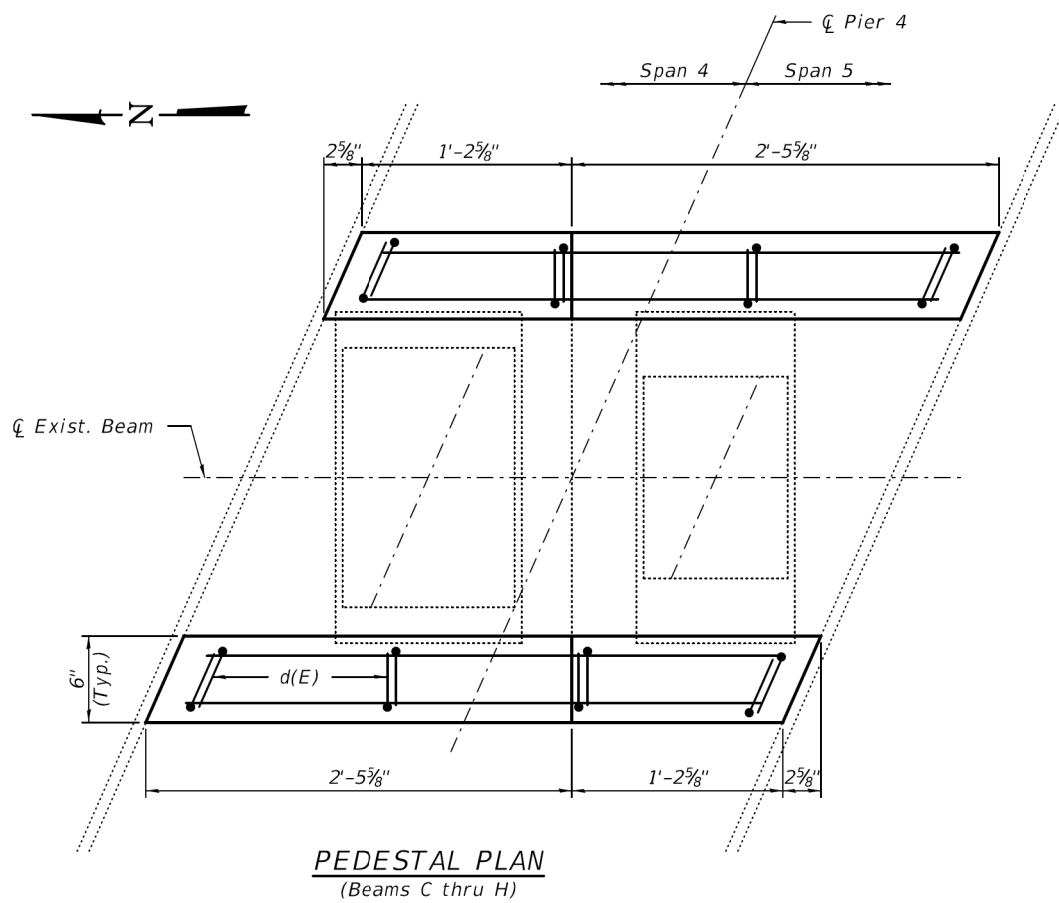
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CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED -	REVISOR -
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

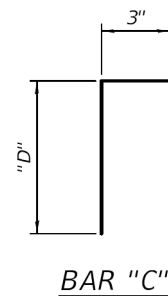
BEARING DETAILS - PIER 4
SN 016-2513 (NB)

SHEET NO. 1 OF 3 SHEETS

F.A.P. RTE. 350	SECTION 2018-124-BR	COUNTY COOK	TOTAL SHEETS 95	SHEET NO. 77
CONTRACT NO. 62H50			ILLINOIS FED. AID PROJECT	



* Epoxy grout bars in accordance with Article 584 of the Standard Specifications. Cost is included in cost of Reinforcement Bars, Epoxy Coated.

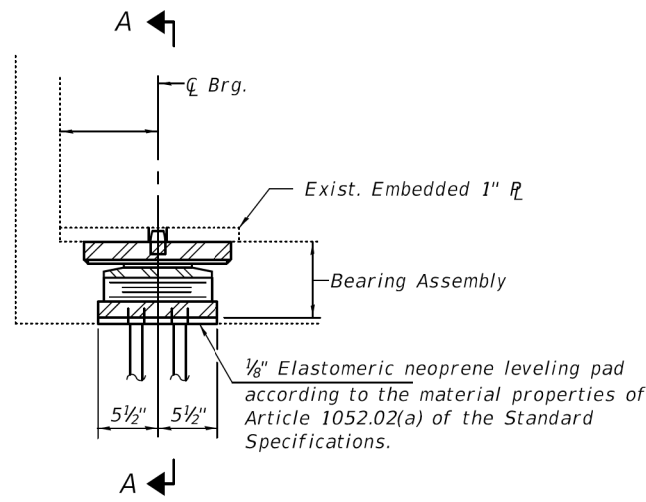


BEAM	"A"	"B"	"C"	"D"
C	5 9/16"	5"	d3(E)	11"
D	6 7/8"	6 7/8"	d2(E)	1'-0"
E	7 1/16"	7 1/2"	d(E)	1'-2"
F	5 7/8"	7 1 3/16"	d(E)	1'-2"
G	4 7/8"	6 1 1/16"	d1(E)	1'-1"
H	5 7/16"	4 5/8"	d2(E)	1'-0"

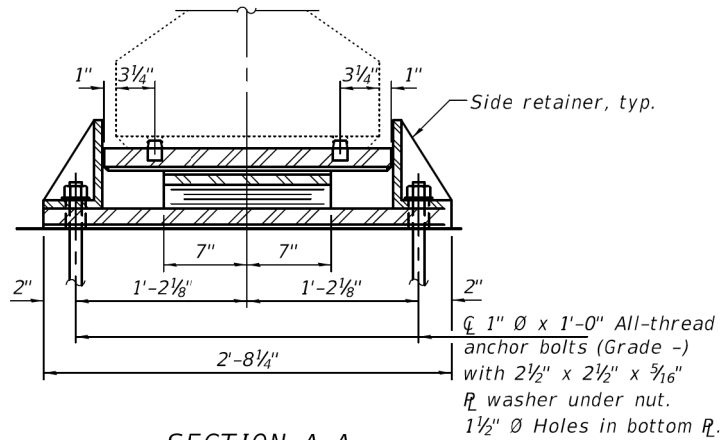
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	16	#5	1'-5"	┌
d1(E)	8	#5	1'-4"	┌
d2(E)	16	#5	1'-3"	┌
d3(E)	8	#5	1'-2"	┌
p(E)	12	#5	3'-4"	—
Concrete Structures			Cu. Yd.	0.5
Reinforcement Bars, Epoxy Coated			Pound	110

DRAFT
DATE: 9/3/2020

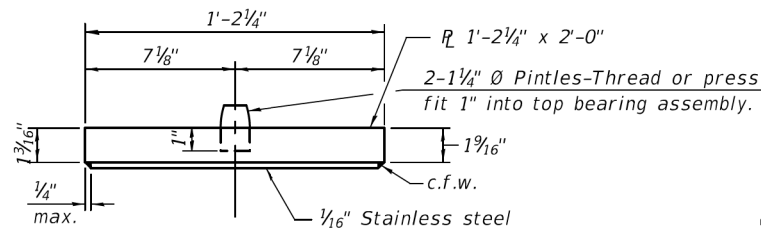


ELEVATION AT ABUT.

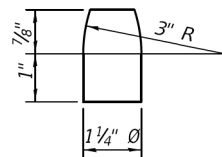


SECTION A-A

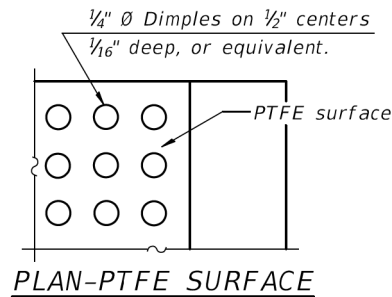
TYPE II ELASTOMERIC EXP. BRG.



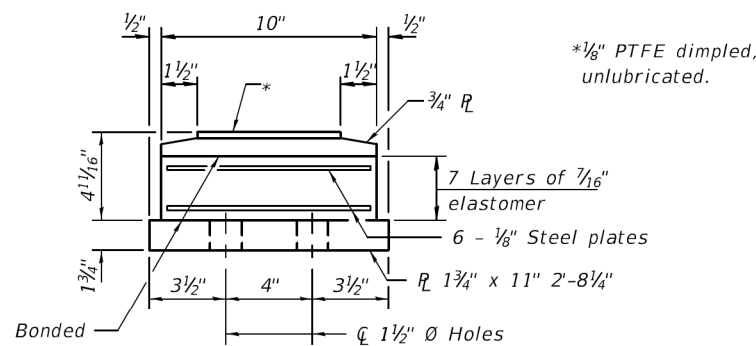
TOP BEARING ASSEMBLY



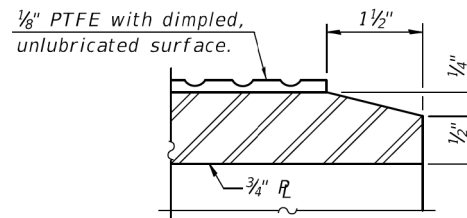
PINTLE



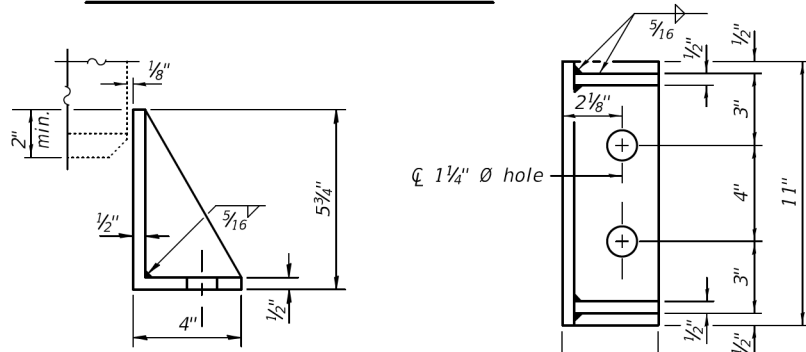
PLAN-PTFE SURFACE



BOTTOM BEARING ASSEMBLY

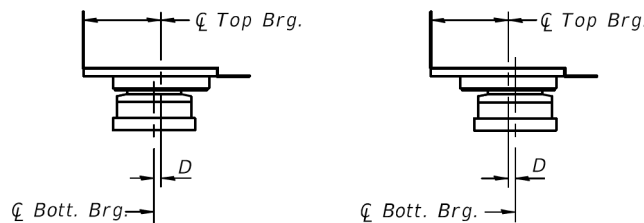


SECTION THRU PTFE



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

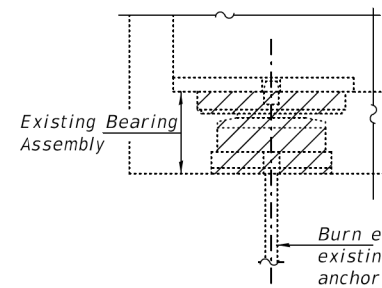


BELOW 50°F. $D = \frac{1}{8}$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

ABOVE 50°F.

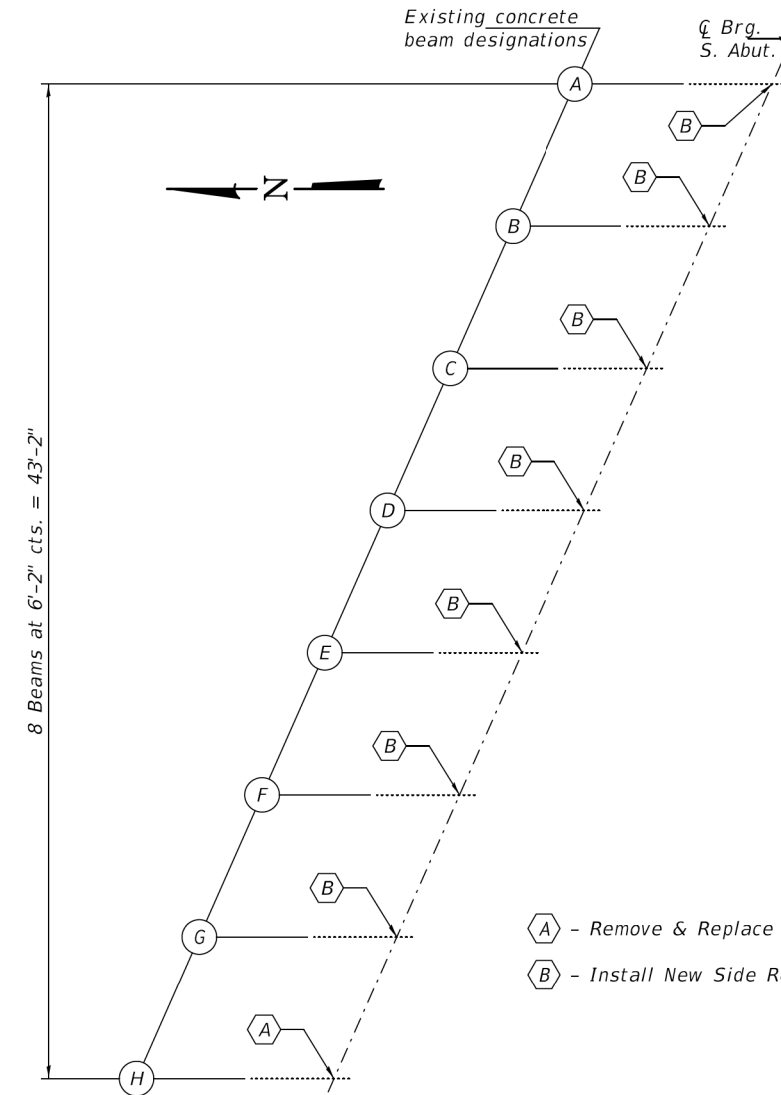
EXPANSION BEARING ORIENTATION

The above diagrams are for informational purposes only to show the amount of expected offset "D" for the current temperature in the field.



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.



PARTIAL FRAMING PLAN

- Ⓐ - Remove & Replace Existing Side Retainer
- Ⓑ - Install New Side Retainers

Notes:
 Side retainers and leveling pads shall be included in the cost of Elastomeric Bearing Assembly, Type II.
 The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
 Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer. See sheet of for additional details of embedded plate.
 Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
 All exposed bearing plates and side retainers shall be hot dipped galvanized according to AASHTO M111.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	8
Jack & Remove Existing Bearings	Each	8
Anchor Bolts	Each	32

DRAFT

DATE: 9/3/2020

DESIGNED - XXX
 CHECKED - XXX
 DRAWN - daburdell
 CHECKED - XXX

EXAMINED
 PASSED
 ENGINEER OF STRUCTURAL SERVICES
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - SEPTEMBER 3, 2020
 REVISED -
 REVISED -

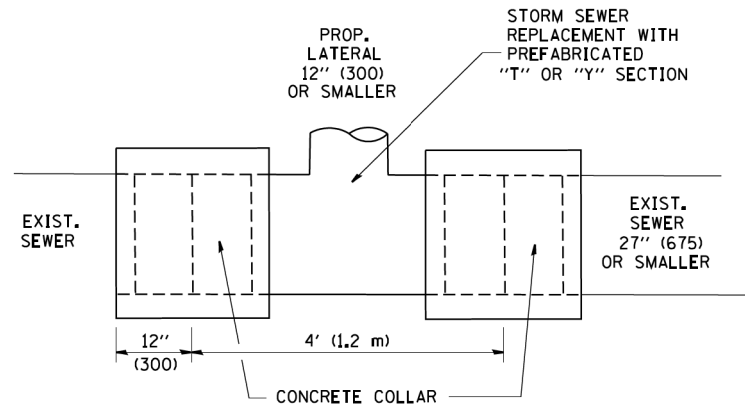
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BEARING DETAILS - SOUTH ABUTMENT
 SN 016-2513 (NB)

SHEET NO. 3 OF 3 SHEETS

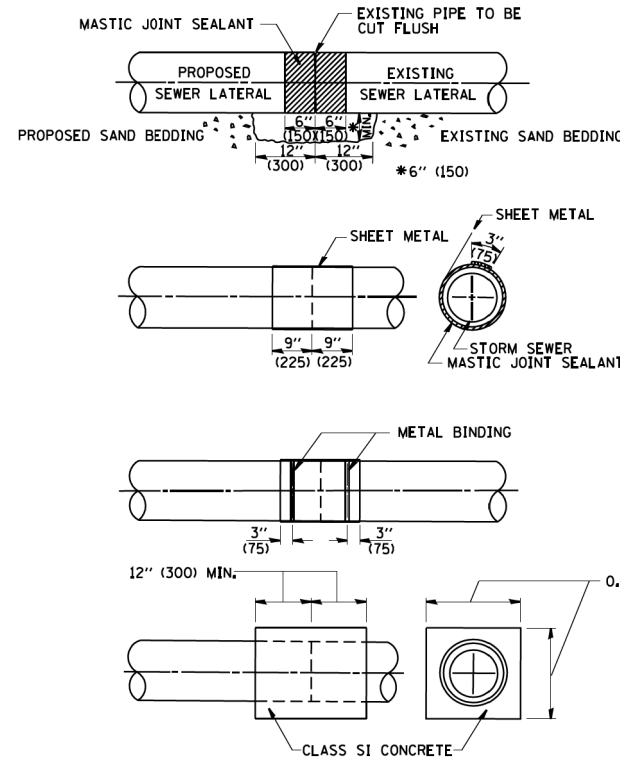
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	79
CONTRACT NO. 62H50				

ILLINOIS FED. AID PROJECT



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

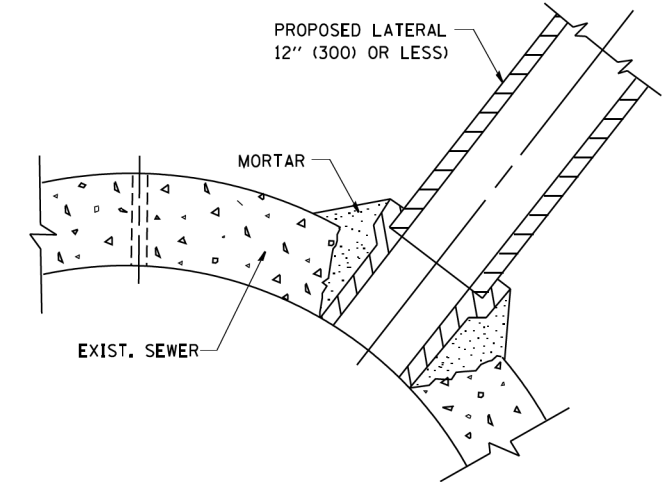


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0,0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
- WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

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D9105519-sht-DistrictOneDetail-BD07.dgn		DRAWN - AMF	REVISED -			350	2018-124-BR	COOK	95	80
PLOT SCALE = 2,0000' / in.		CHECKED -	REVISED -			BD-07		CONTRACT NO. 62H50		
PLOT DATE = 10/14/2020		DATE -	REVISED -			SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.	
GARZA KARHOFF ENGINEERING, LLC					ILLINOIS FED. AID PROJECT					

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 PLOT DATE: 10/14/2020

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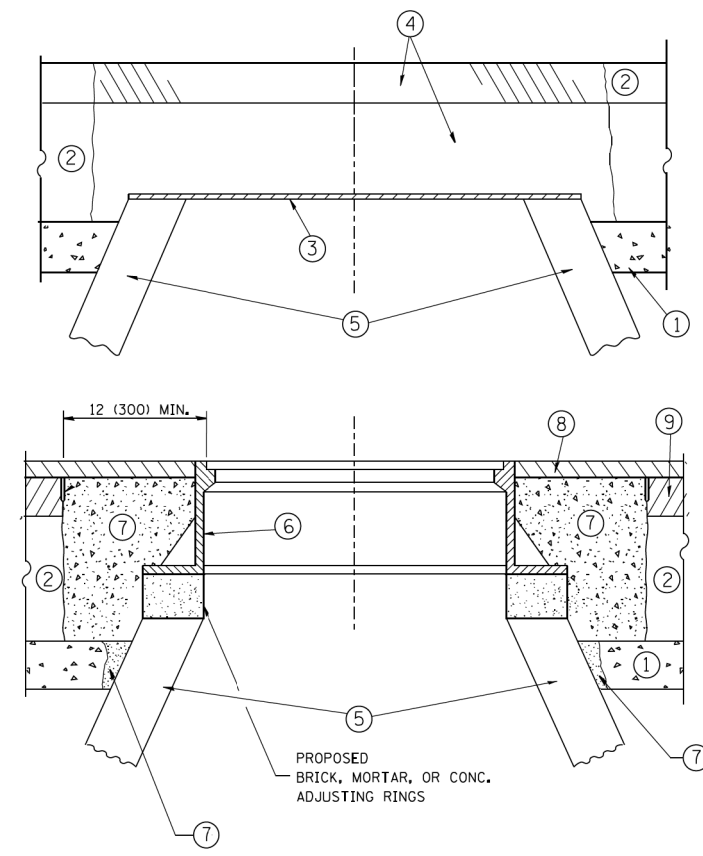
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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	81
BD-08		CONTRACT NO. 62H50		
ILLINOIS FED. AID PROJECT				



NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

① SUB-BASE GRANULAR MATERIAL	⑥ FRAME AND LID (SEE NOTES)
② EXISTING PAVEMENT	⑦ CLASS PP-1* CONCRETE
③ 36 (900) DIAMETER METAL PLATE	⑧ PROPOSED HMA SURFACE COURSE
④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX	⑨ PROPOSED HMA BINDER COURSE
⑤ EXISTING STRUCTURE	

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

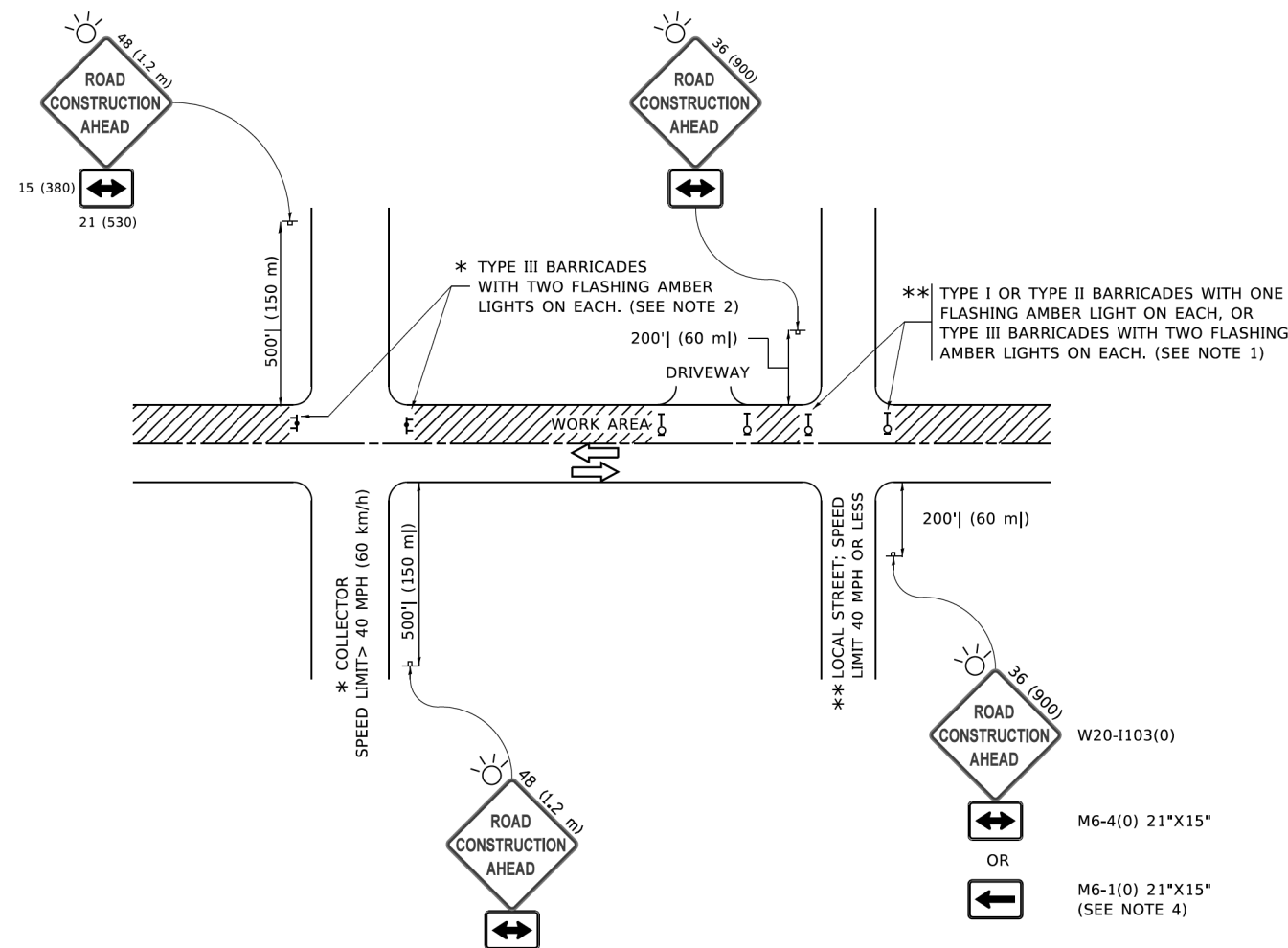
REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT
WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN



NOTES:

1. 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:
 - a) 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.
 - b) 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.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) 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.
 - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. 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.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. 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.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. 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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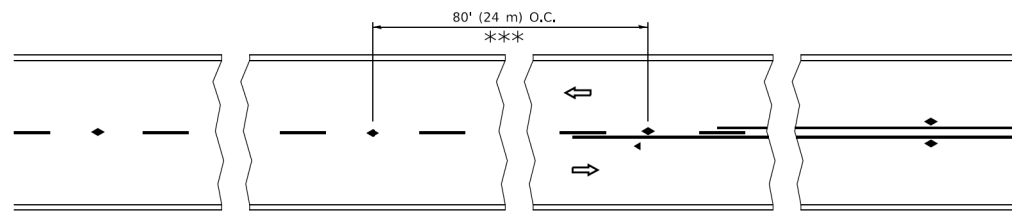
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

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

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

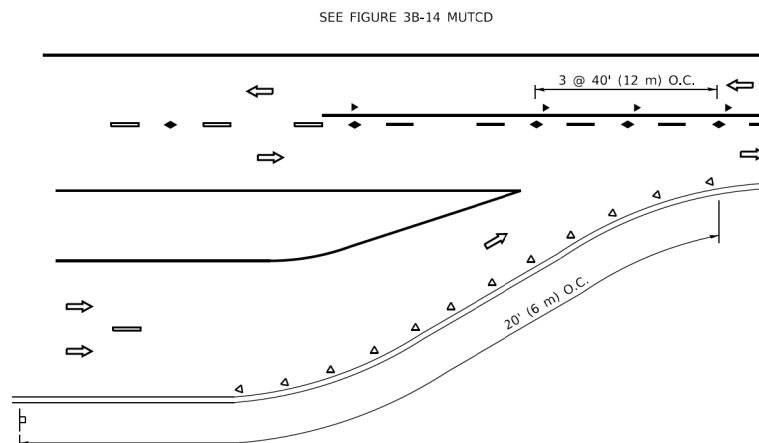
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	82
TC-10			CONTRACT NO. 62H50	
ILLINOIS FED. AID PROJECT				



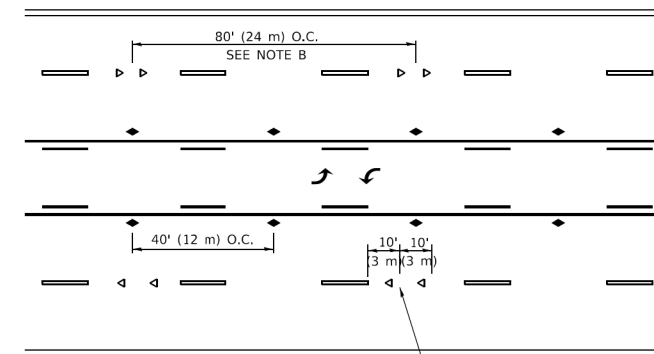


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

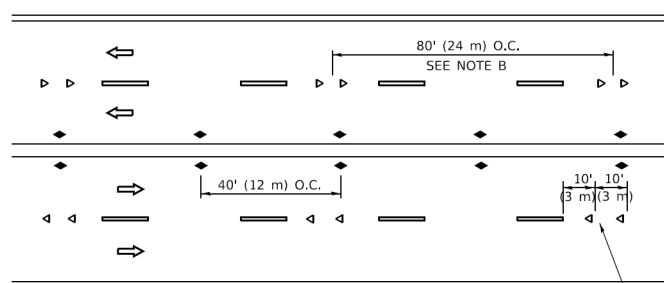
TWO-LANE/TWO-WAY



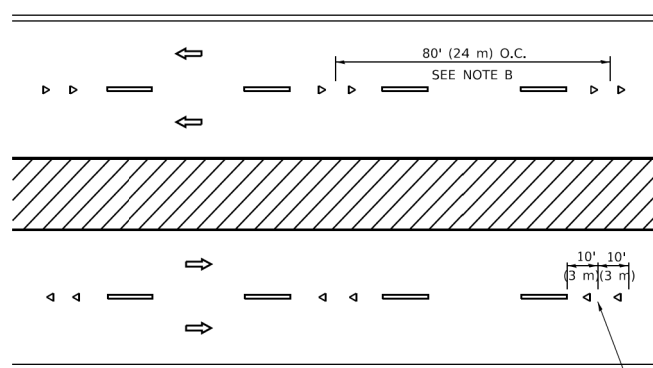
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

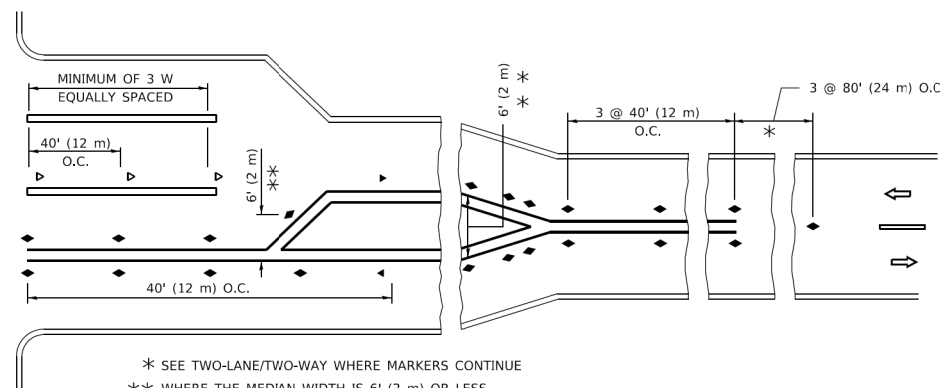
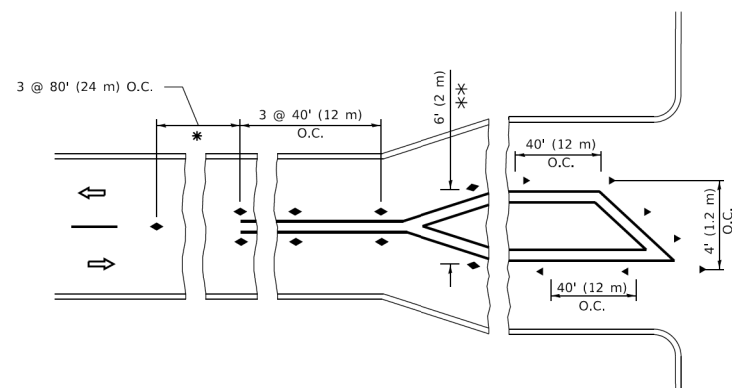
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. 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

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



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

TURN LANES

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

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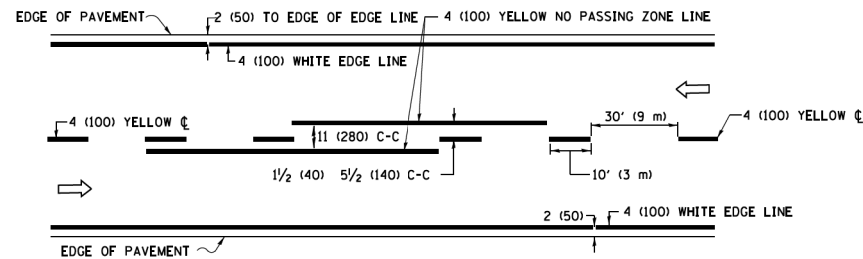
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

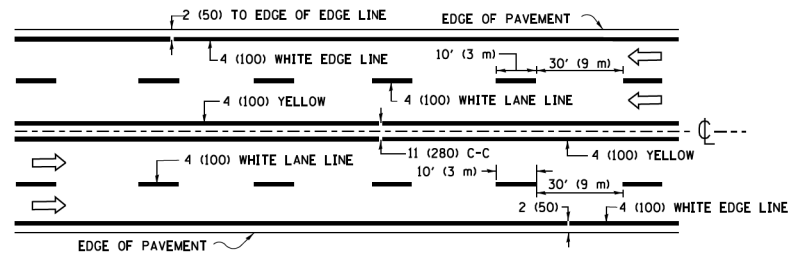
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-11			CONTRACT NO. 62H50	
ILLINOIS		FED. AID PROJECT		

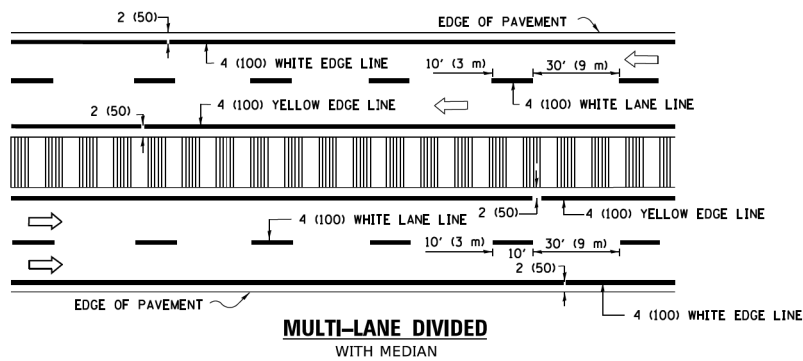
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.



2-LANE ROADWAY

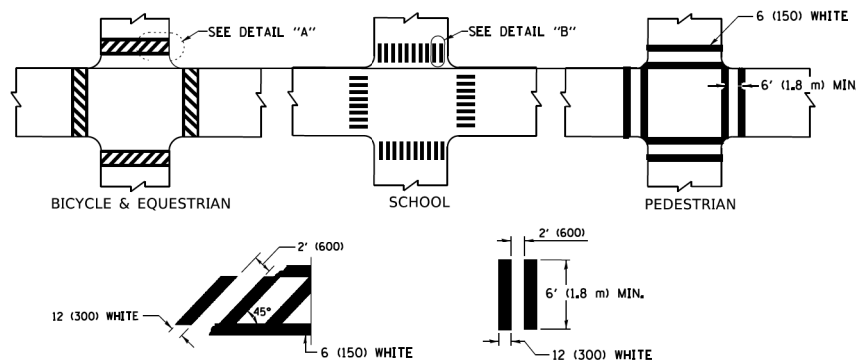


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

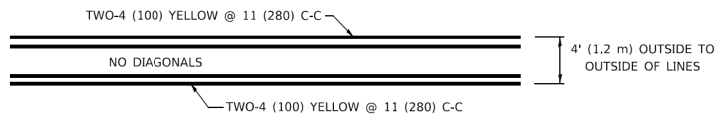


DETAIL "A"

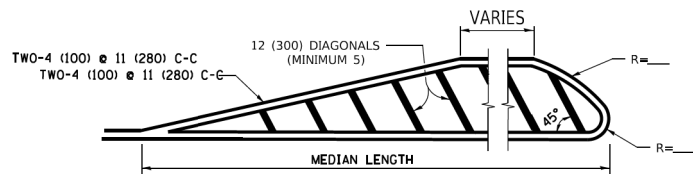
DETAIL "B"

TYPICAL CROSSWALK MARKING

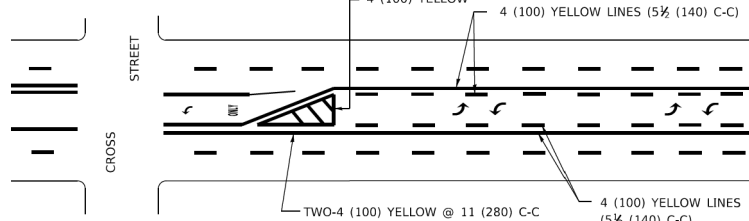
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



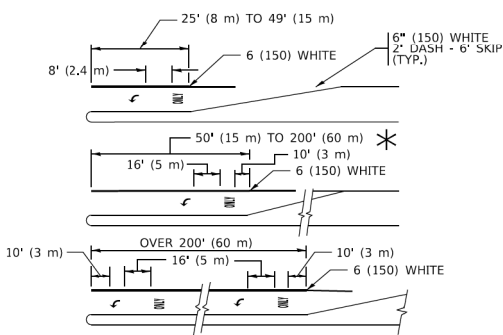
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



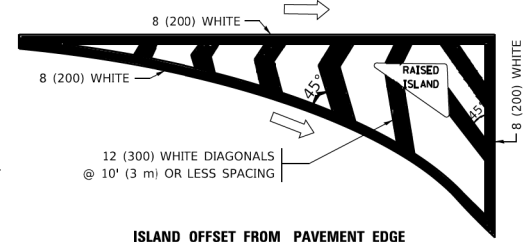
**MEDIAN WITH TWO-WAY LEFT TURN LANE
TYPICAL PAINTED MEDIAN MARKING**



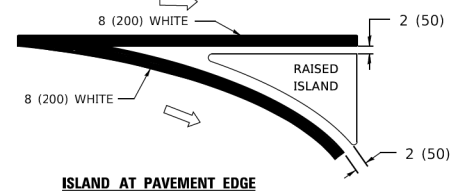
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - *ONLY* INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - *ONLY*.

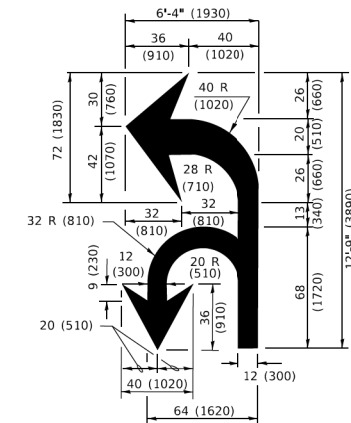


ISLAND OFFSET FROM PAVEMENT EDGE

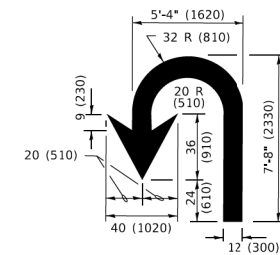


ISLAND AT PAVEMENT EDGE

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 *X*	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R*=3.6 SQ. FT. (0.33 m ²) EACH *X*=54.0 SQ. FT. (5.0 m ²)
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 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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.

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USER: anthony.friedman
DATE: 10/14/2020



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	84
TC-13		CONTRACT NO. 62H50		
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

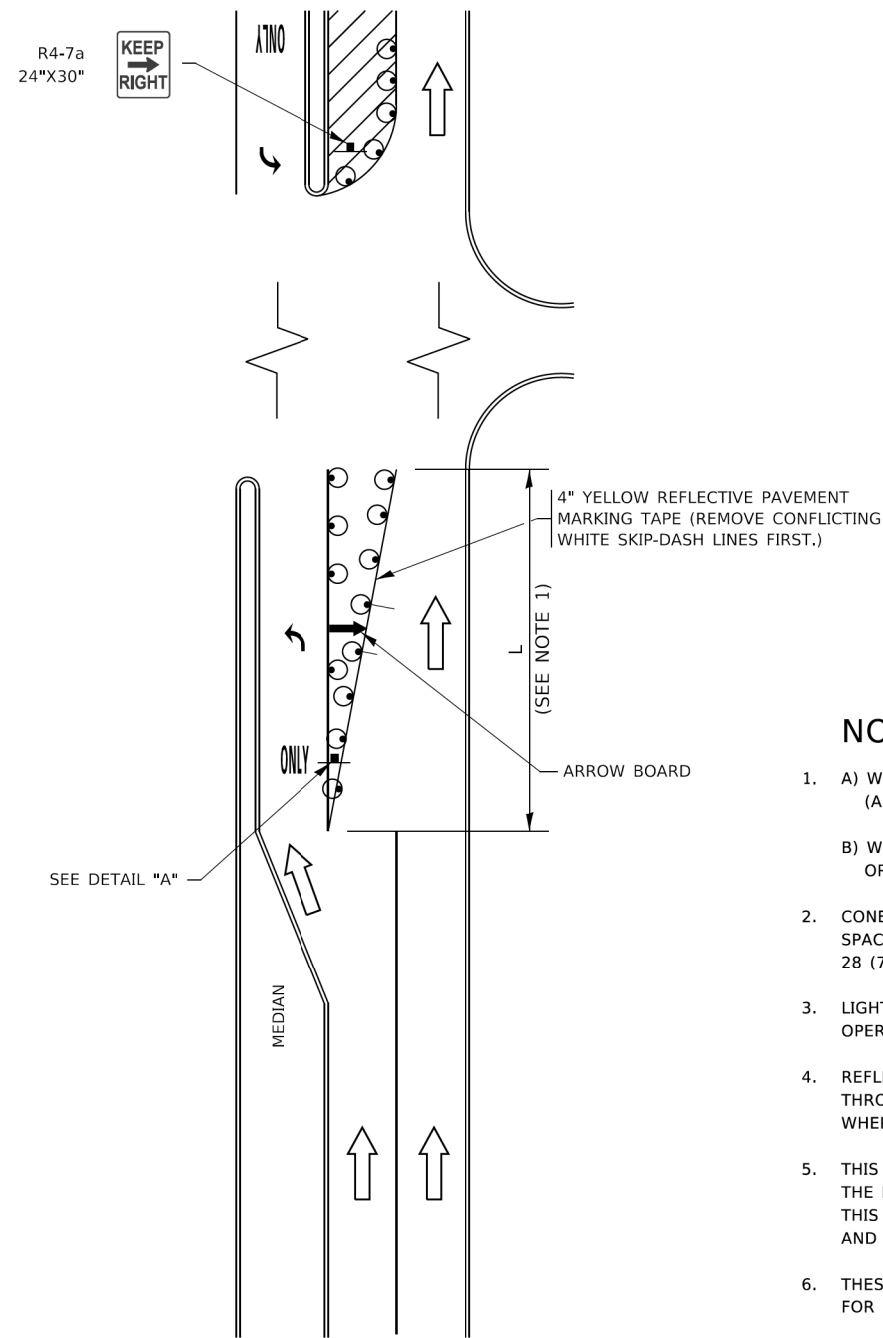


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

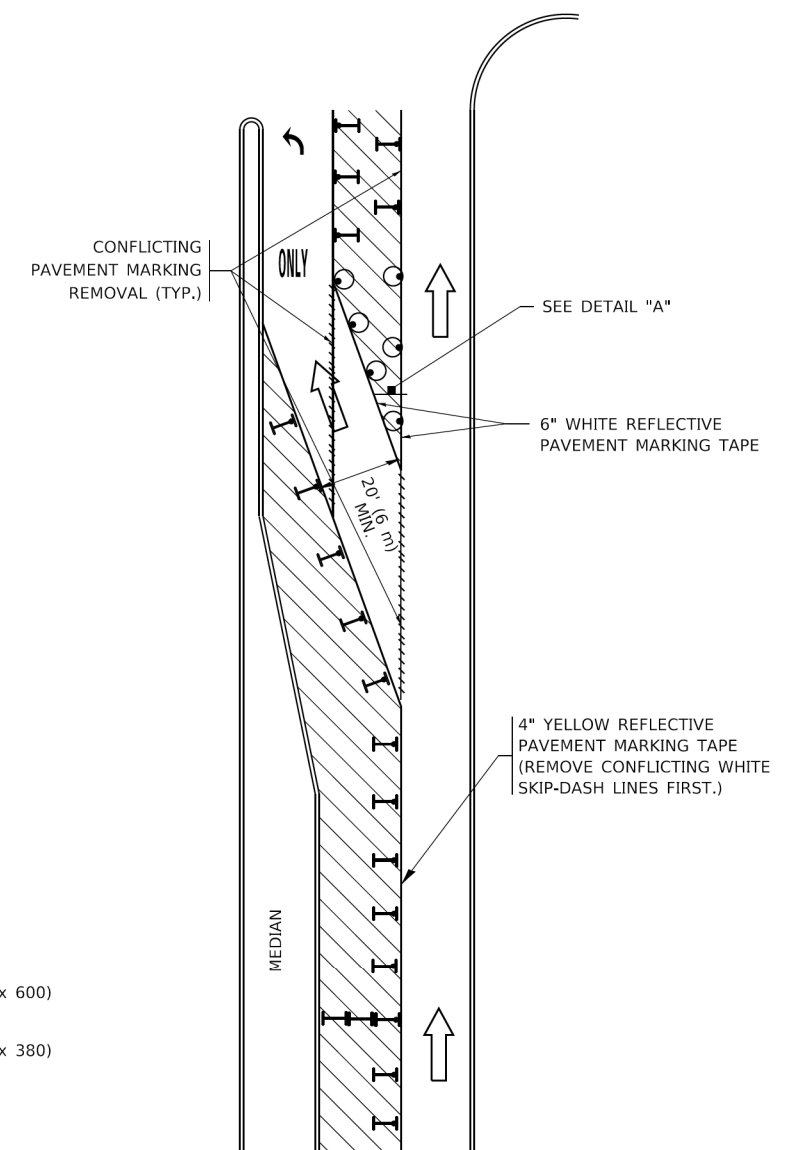


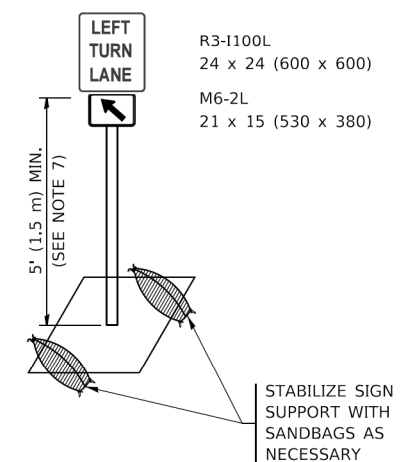
FIGURE 2

LEGEND

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

NOTES:

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



DETAIL A

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

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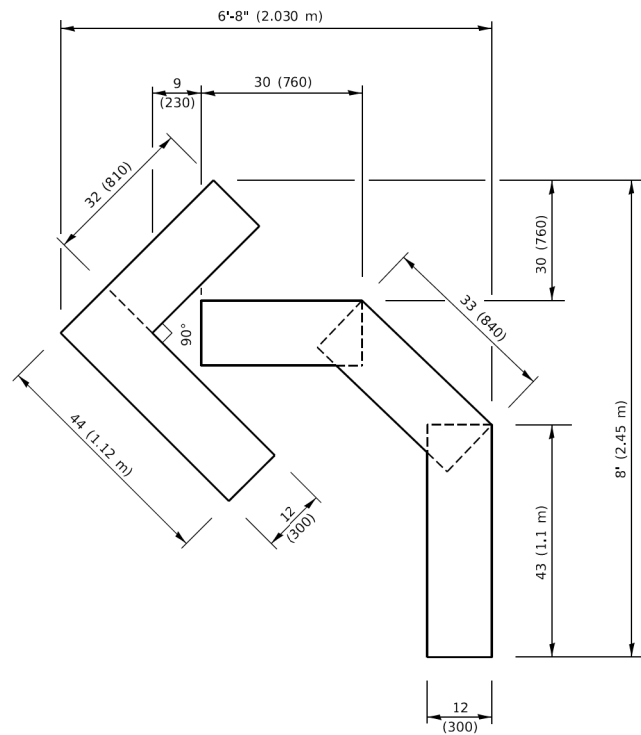
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

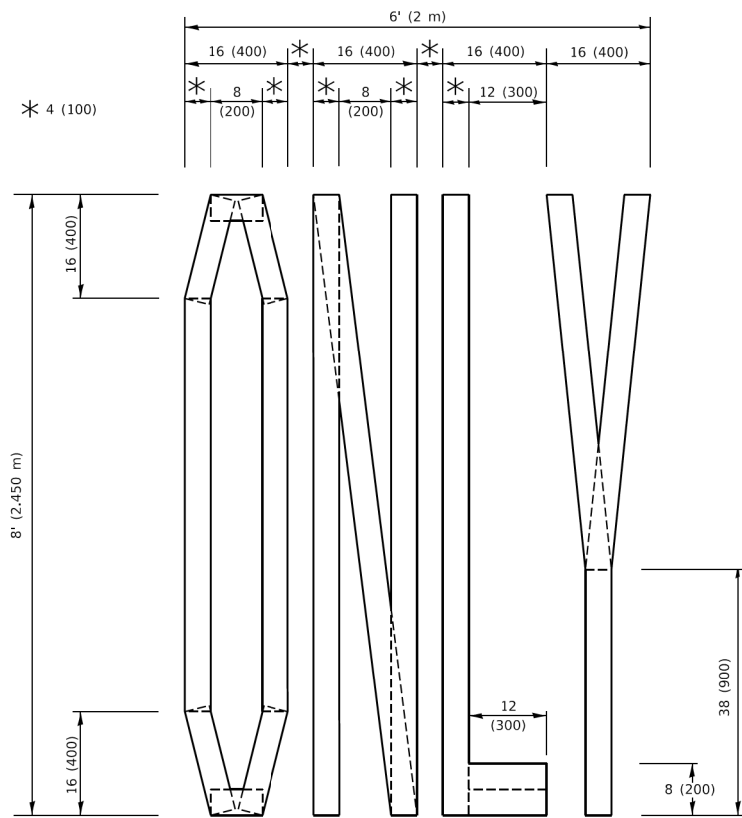
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

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

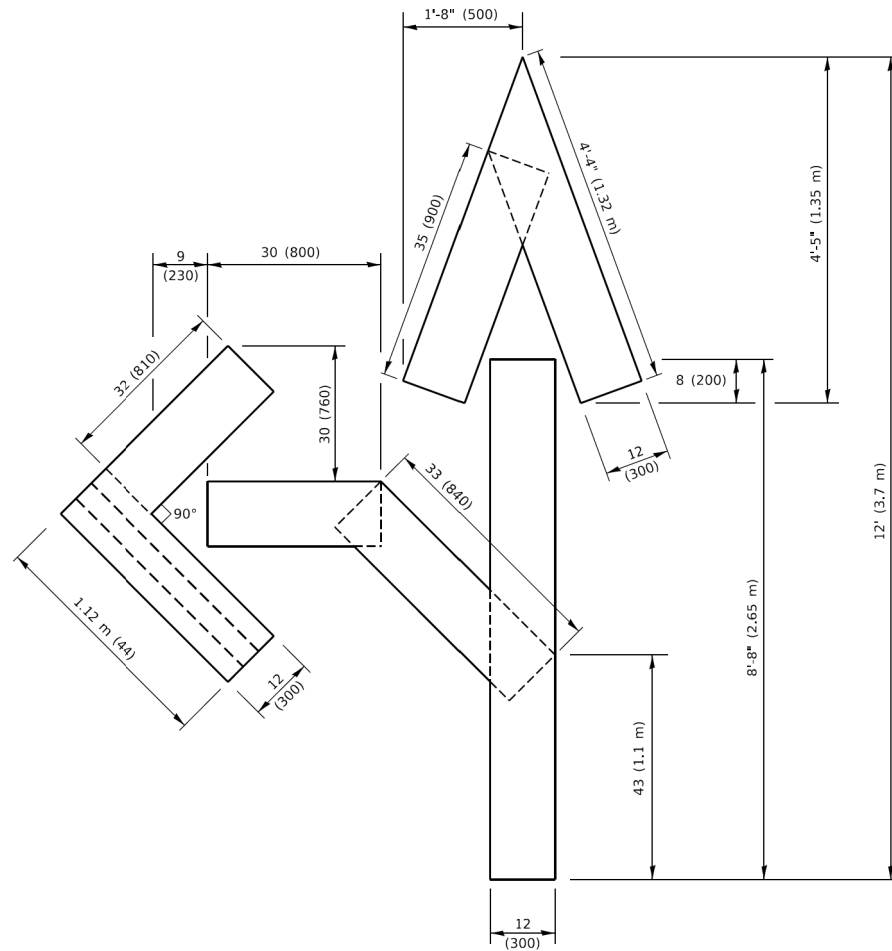
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	85
TC-14		CONTRACT NO. 62H50		
		ILLINOIS FED. AID PROJECT		



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.41 sq. m)

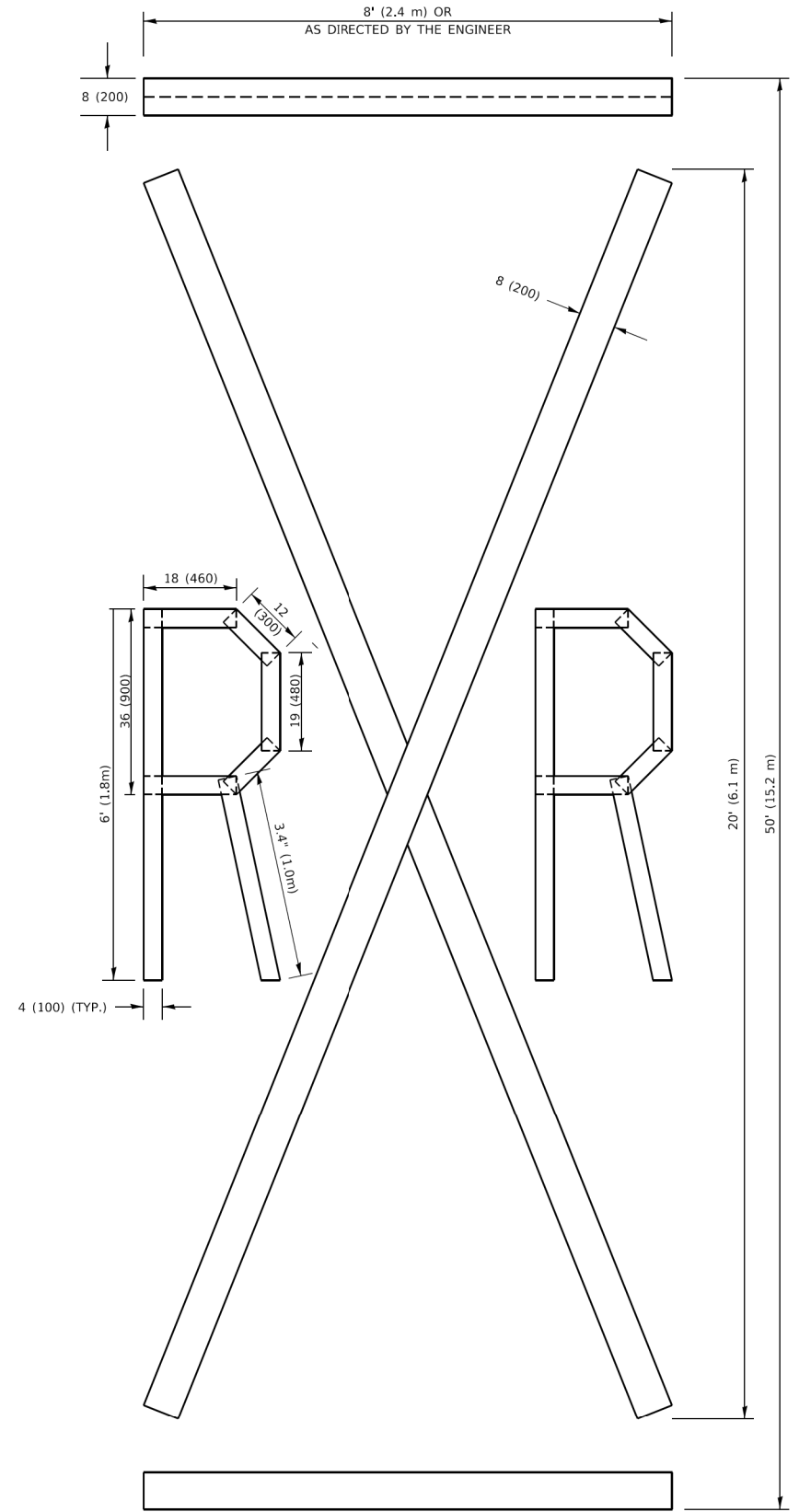


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)

NOTE:
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY
 4 (100) LINE = 225.9 ft. (68.9 m)
 75.3 sq. ft. (6.99 sq. m)

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

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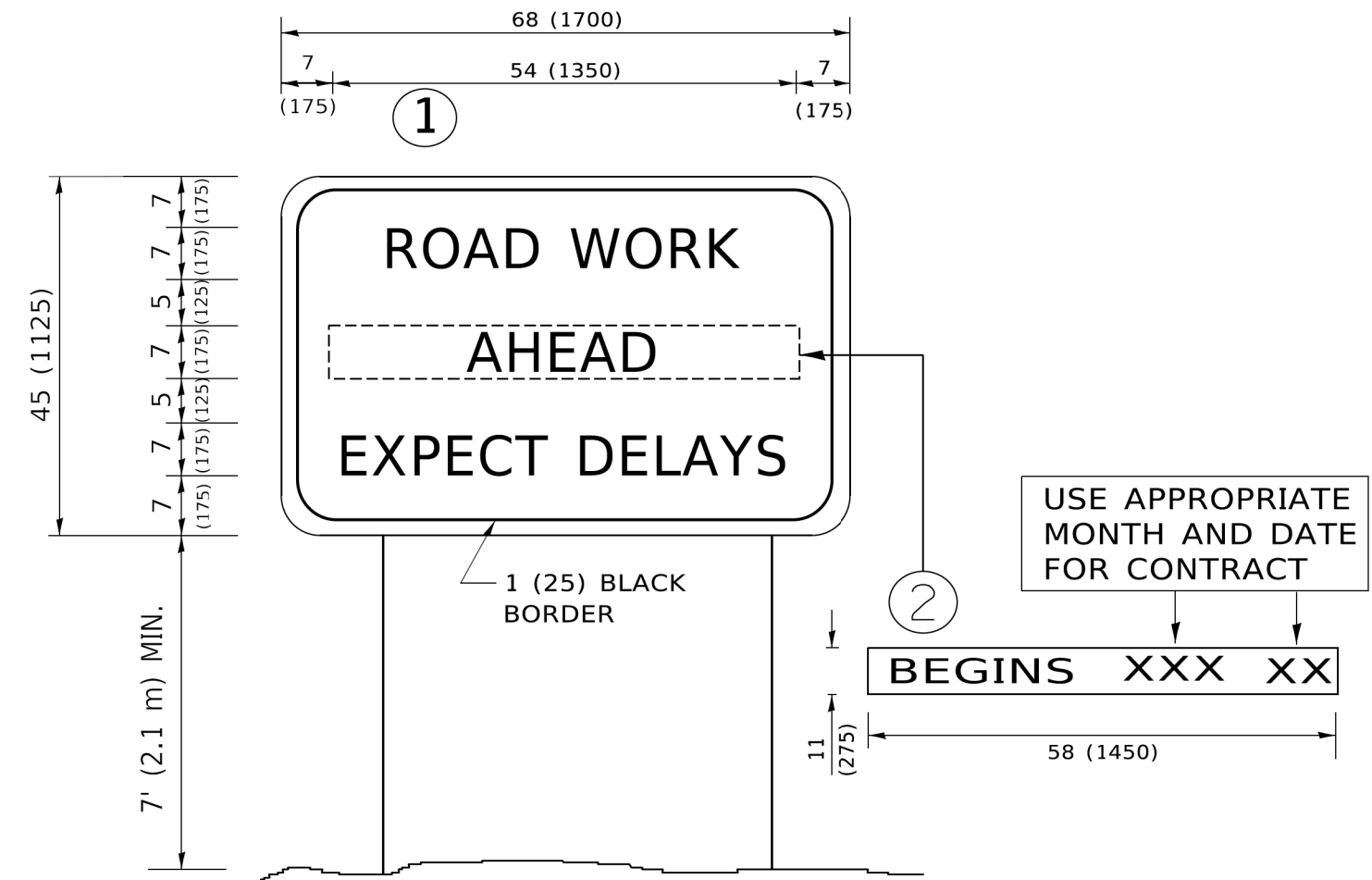
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PLOT DATE = 10/14/2020		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	86
TC-16		CONTRACT NO. 62H50		
		ILLINOIS	FED. AID PROJECT	



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT 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.

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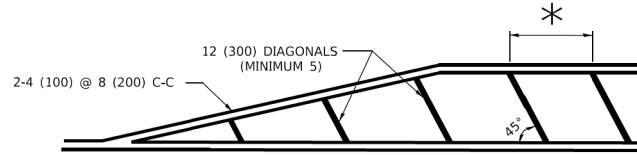
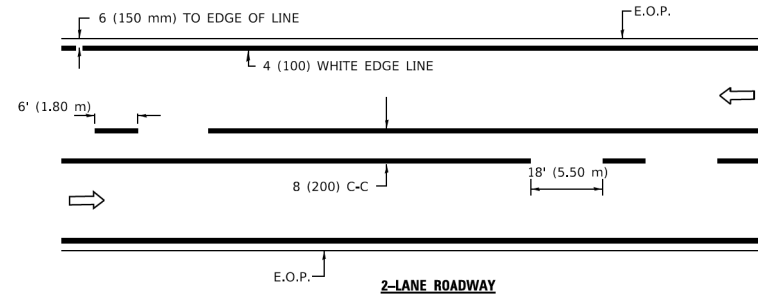
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PLOT DATE = 10/14/2020		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

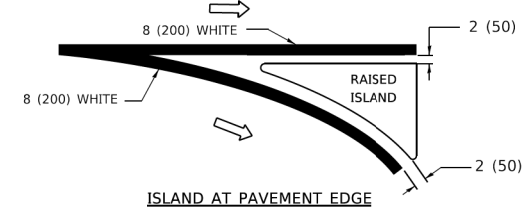
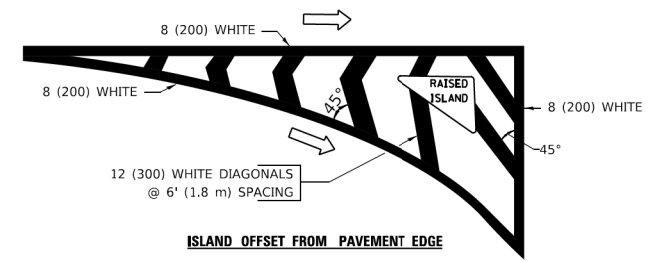
ARTERIAL ROAD
INFORMATION SIGN

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

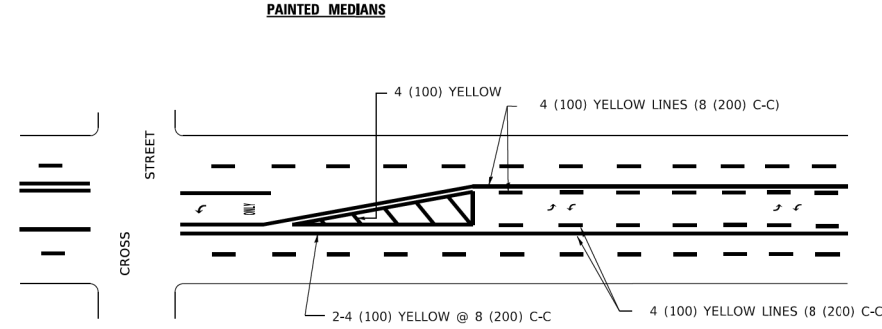
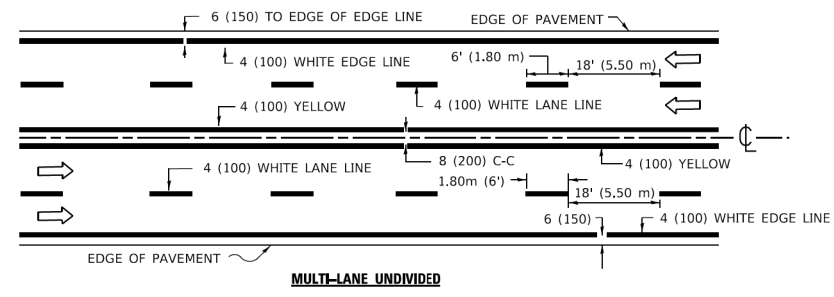
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TC-22			CONTRACT NO. 62H50	
ILLINOIS FED. AID PROJECT				



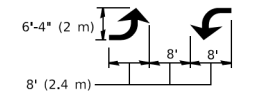
* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 * DIAGONAL LINE SPACING: 20' (6.1 m) C-C



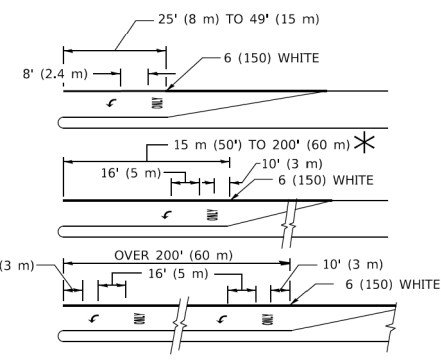
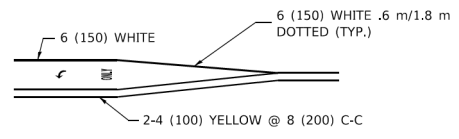
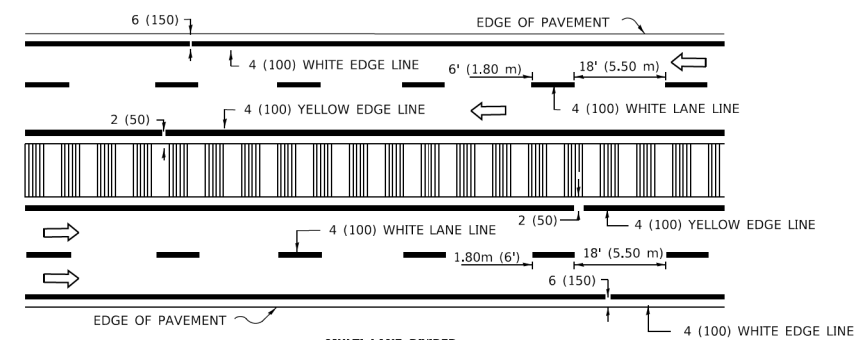
TYPICAL ISLAND MARKING



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



TYPICAL PAINTED MEDIAN MARKING

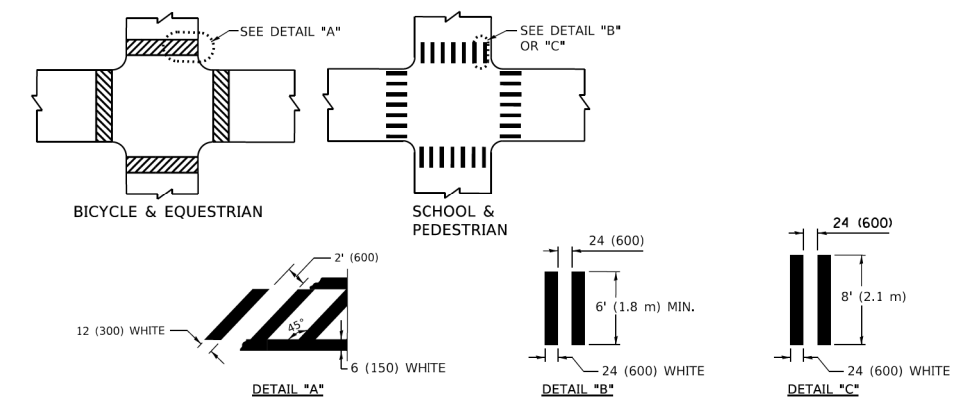


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.8 SQ. FT. (1.47 m²) ONLY AREA = 22.9 SQ. FT. (2.13 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL TURN LANE MARKING

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 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) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL & PEDESTRIAN)	12 (300) @ 45° 24 (600) @ 90°	SOLID SOLID	WHITE WHITE	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°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	8 (200) 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: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3,6 SQ. FT. (0,33m ²) EACH "X"=54,0 SQ. FT. (5,0 m ²)

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

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

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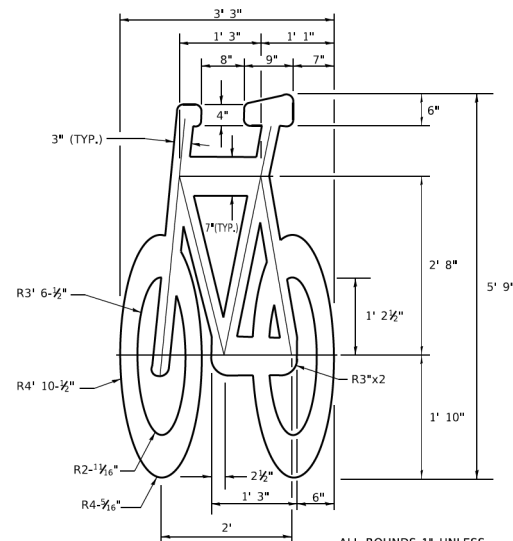
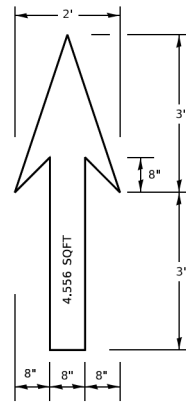
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

CITY OF CHICAGO
TYPICAL PAVEMENT MARKINGS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	88
TC-24		CONTRACT NO. 62H50		
ILLINOIS		FED. AID PROJECT		





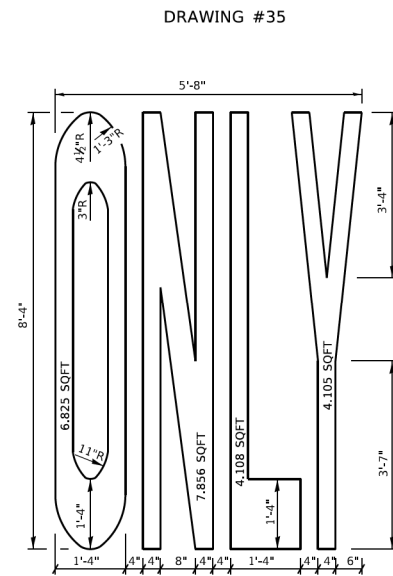
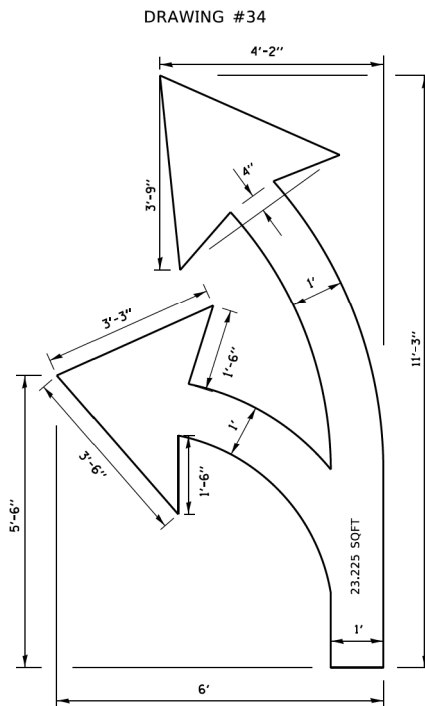
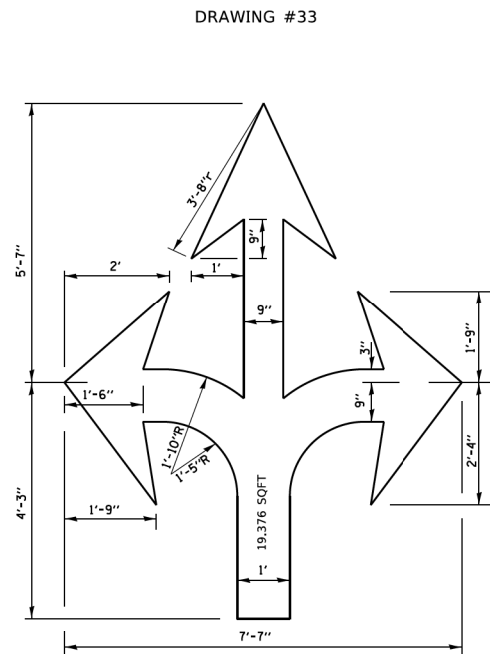
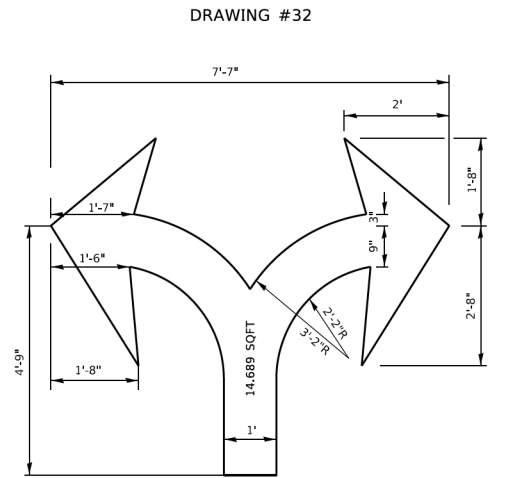
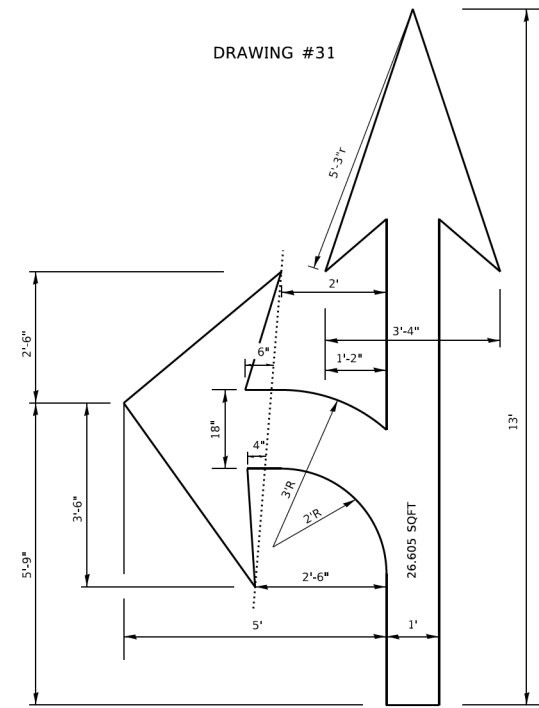
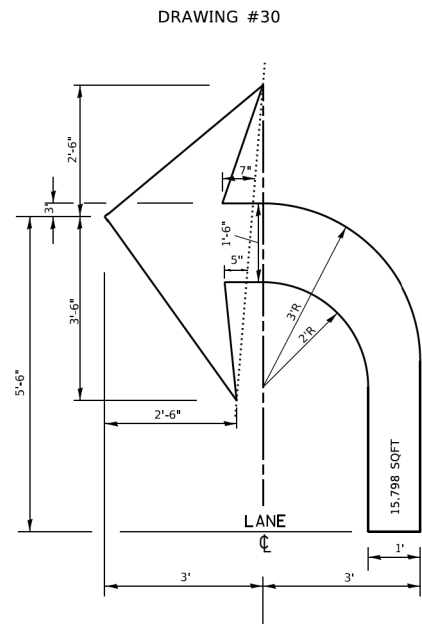
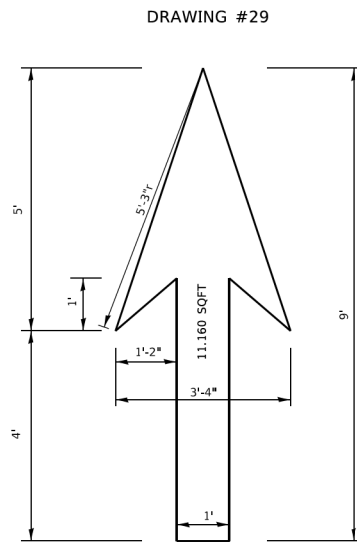
**BICYCLE
LANE SYMBOL**

ALL ROUNDS 1" UNLESS OTHERWISE NOTED.

NOTE:

- FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.
- THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

**TYPICAL BIKE LANE SYMBOLS
DRAWING #28**



NOTE:
ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

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USER NAME = anthony.friedman
PLOT SCALE = 2.0000' / in.
PLOT DATE = 10/14/2020

DESIGNED -
DRAWN - AMF
CHECKED -
DATE -

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REVISED -
REVISED -

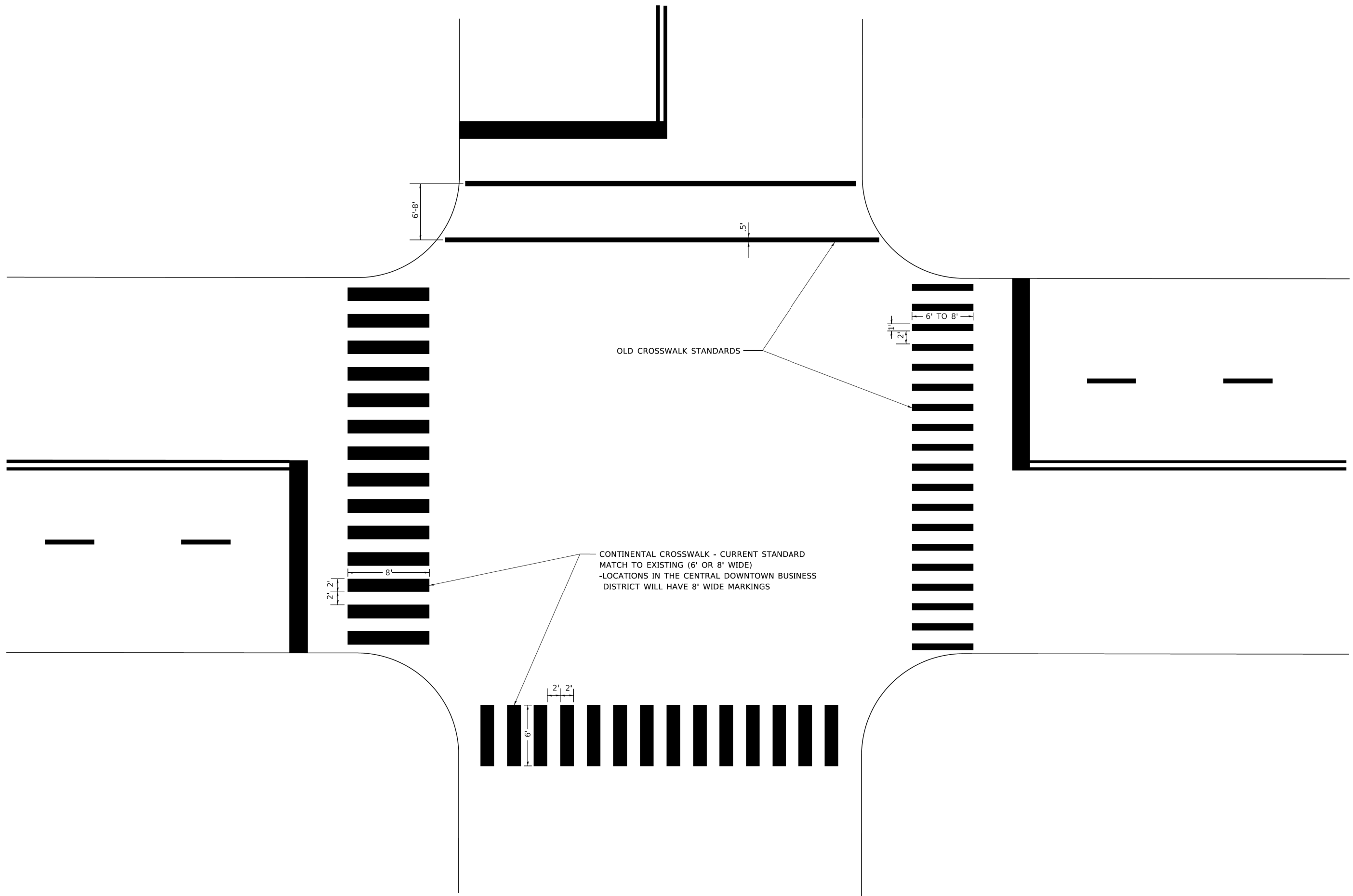
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
IL ROUTE 50 (CICERO AVENUE)
OVER BRC RAILROAD

**CITY OF CHICAGO
TYPICAL PAVEMENT MARKINGS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-24		CONTRACT NO. 62H50		
ILLINOIS		FED. AID PROJECT		

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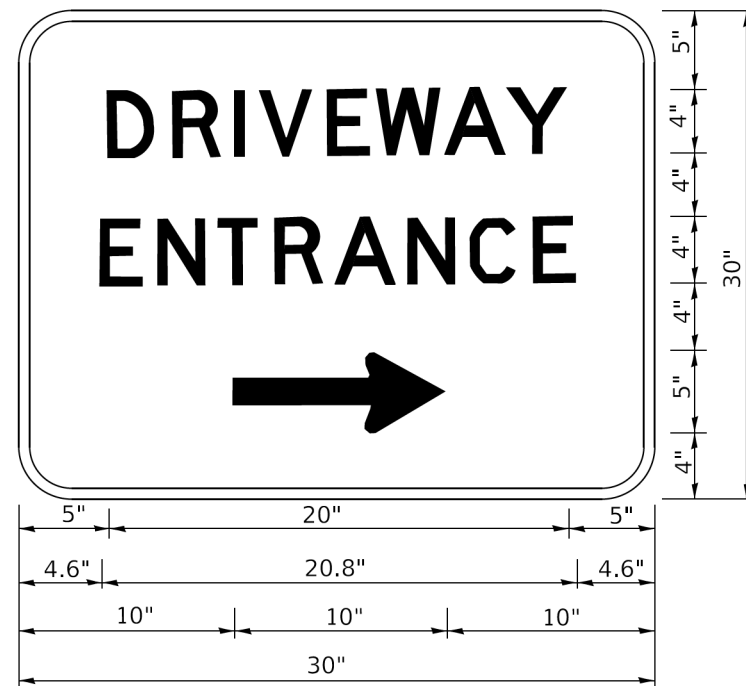
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

CITY OF CHICAGO
TYPICAL PAVEMENT MARKINGS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	90
TC-24			CONTRACT NO. 62H50	
ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL ROUTE 50 (CICERO AVENUE)
 OVER BRC RAILROAD

DRIVEWAY ENTRANCE SIGNING

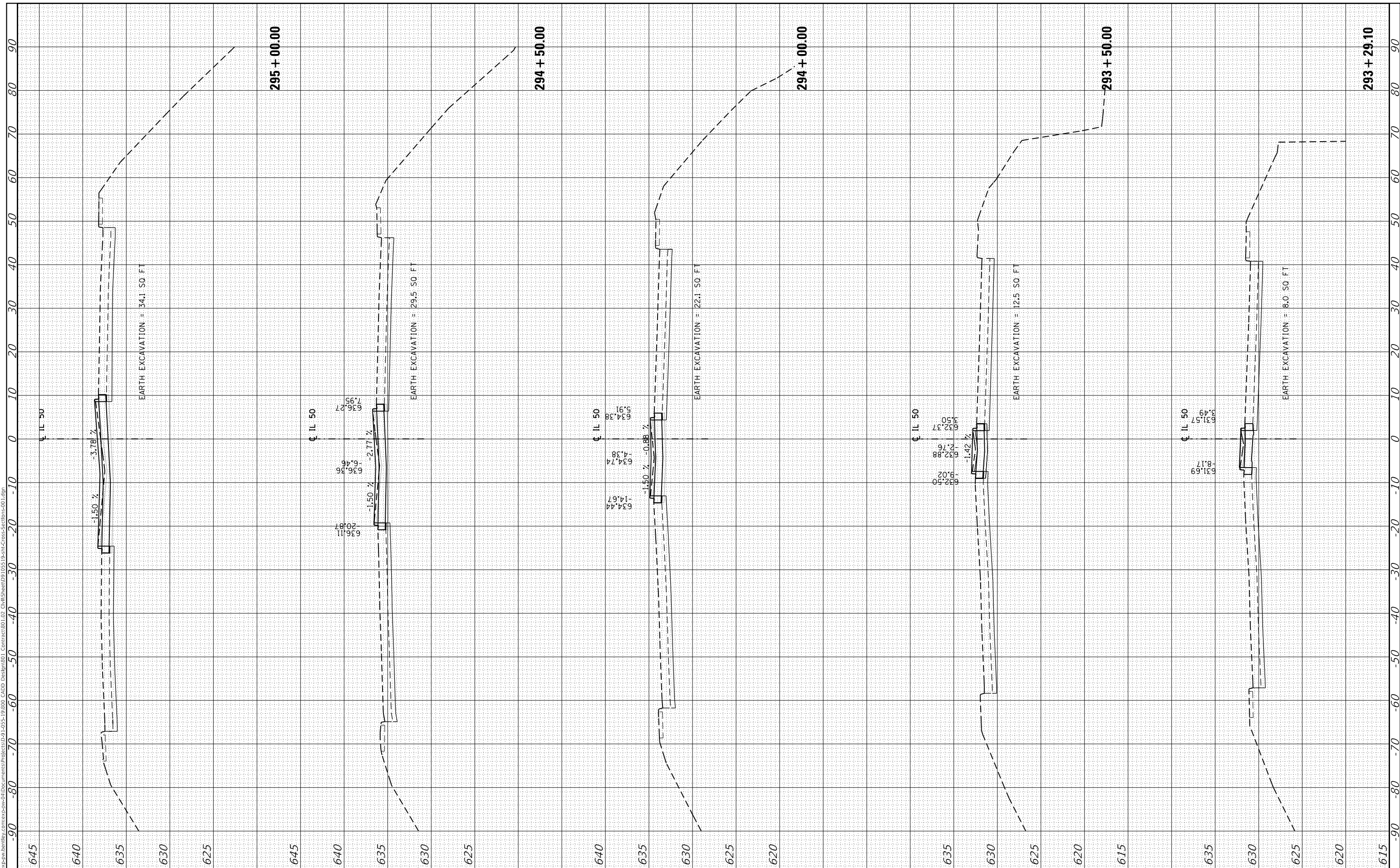
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TC-26			CONTRACT NO. 62H50	
ILLINOIS FED. AID PROJECT				

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AREAS CHECKED	TEMPLATE	
	AREAS	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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	AREAS	

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 DRAWN: BKW
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 PLOT DATE: 10/14/2020

REVISIONS:
 REVISED: -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 50 (CICERO AVENUE)**

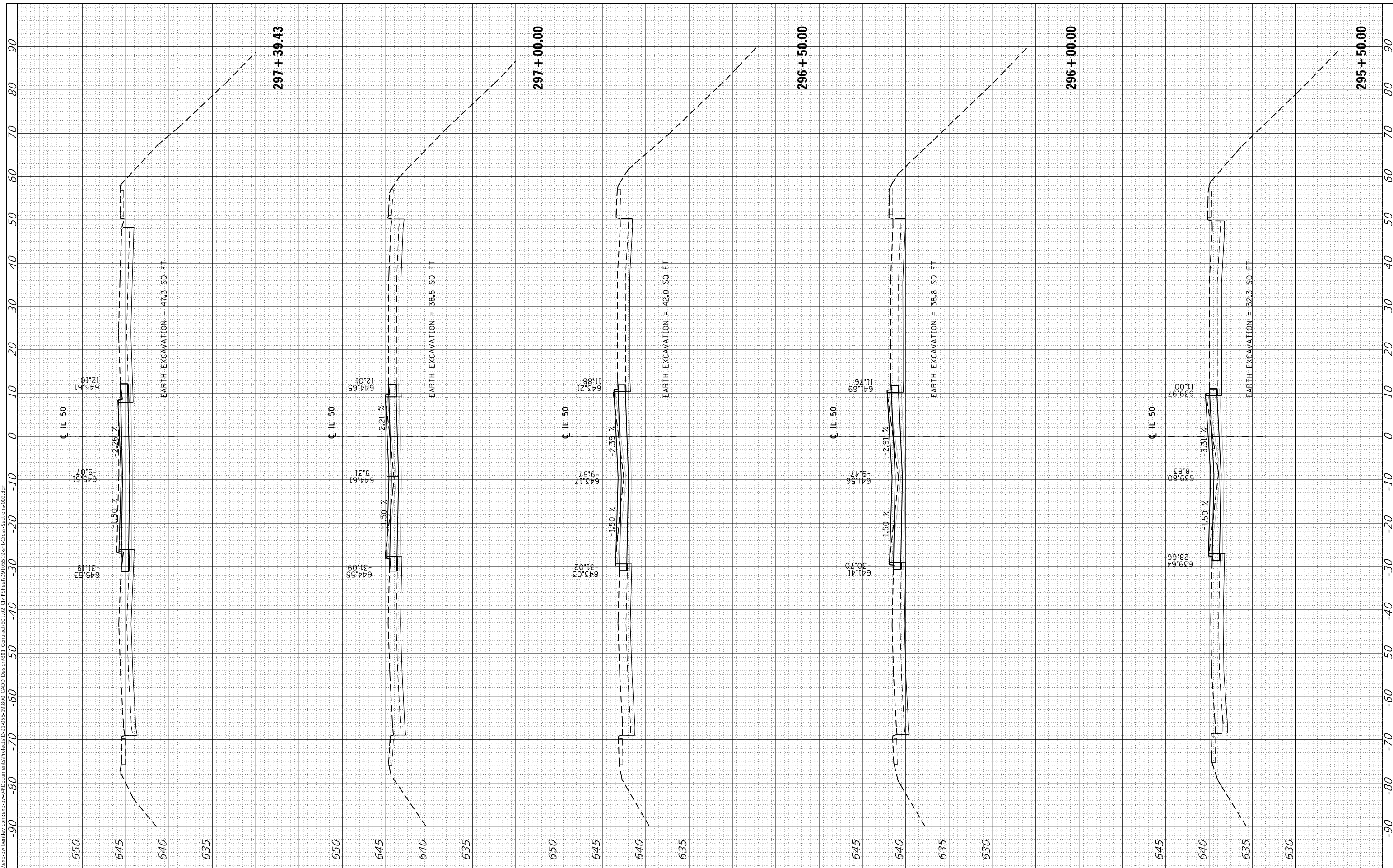
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350	2018-124-BR	COOK	95	92
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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DRAWN	- BKW
CHECKED	- DDH
DATE	- 10/15/2020
REVISIONS	-

SCALE	= 20.0000' / in.
PLOT DATE	= 10/14/2020

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA. 295+50	TO STA. 297+39.41
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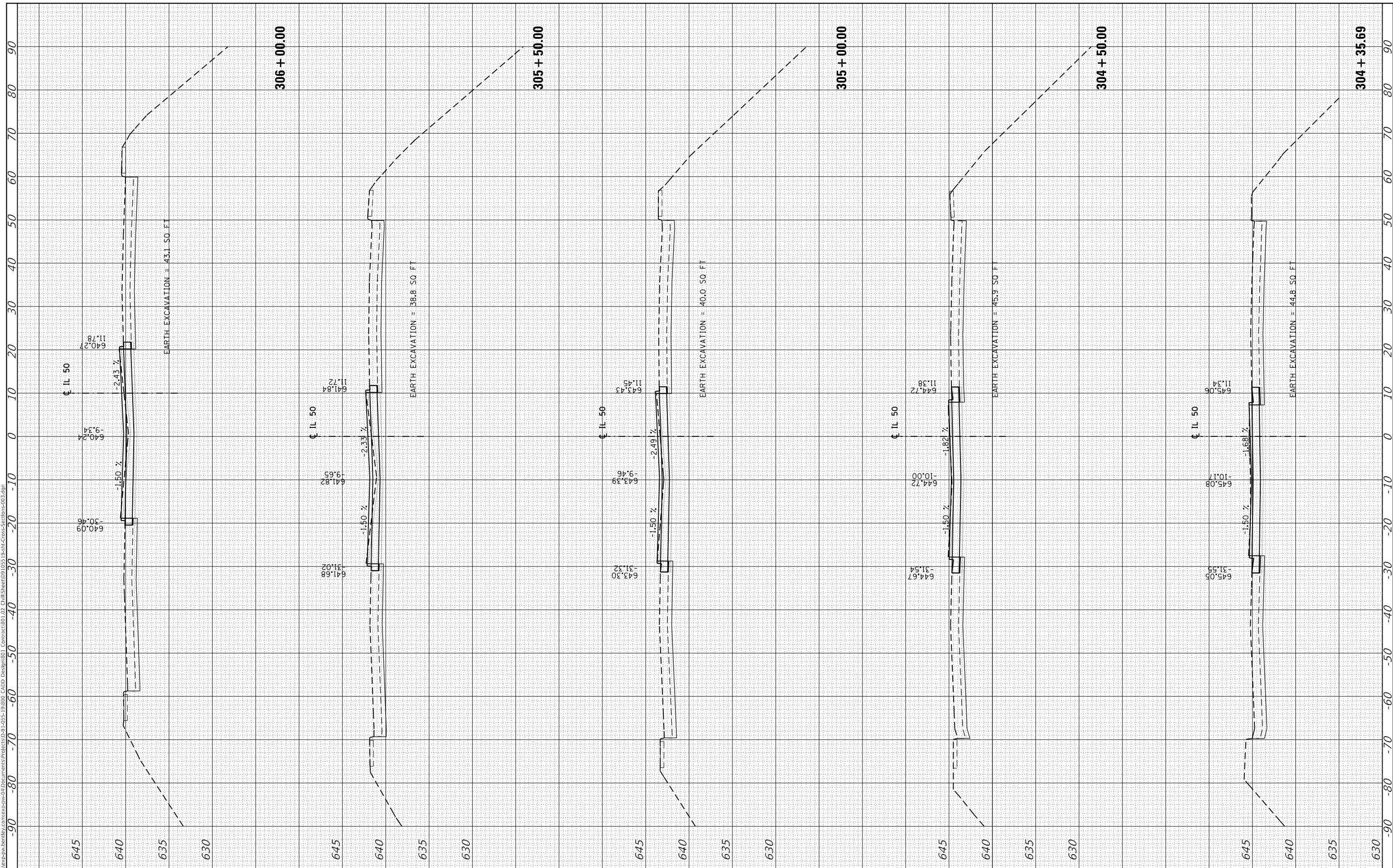
**CROSS SECTIONS
 IL 50 (CICERO AVENUE)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	93
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
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NO.	TEMPLATE		
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 PLOT DATE = 10/14/2020



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
IL 50 (CICERO AVENUE)**

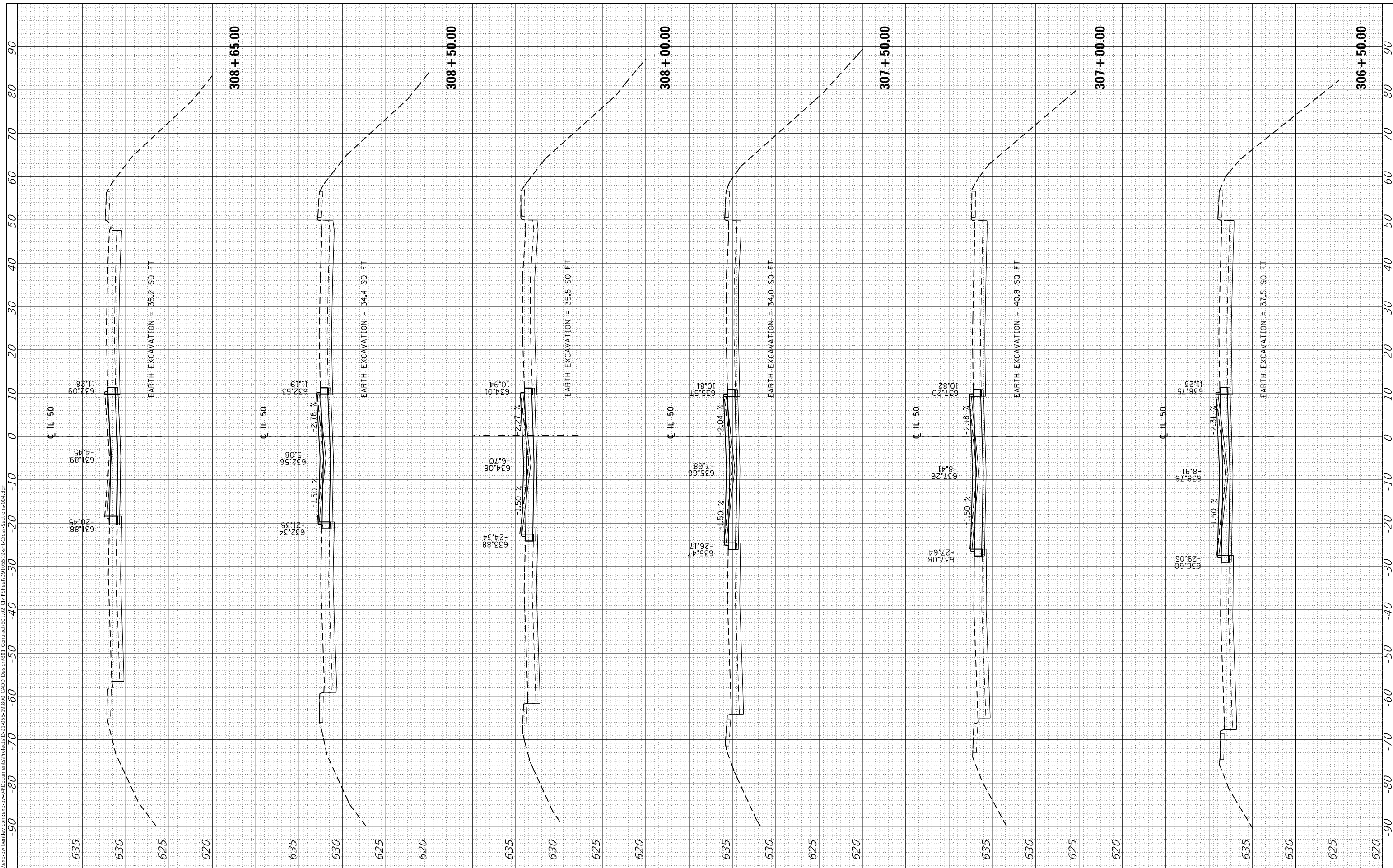
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CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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 PLOT DATE: 10/14/2020

REVISIONS:
 REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS-SECTIONS
 IL 50 (CICERO AVENUE)**

SCALE: SHEET OF SHEETS STA. 306+50 TO STA. 308+65

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	2018-124-BR	COOK	95	95
CONTRACT NO. 62H50				
ILLINOIS FED. AID PROJECT				