

04-26-2024 LETTING ITEM 224

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

ILLINOIS ROUTE 59 (IL-59)

FUNCTIONAL CLASSIFICATION: PRINCIPAL ARTERIAL

POSTED SPEED: 45 MPH

ADT: 29,500 (2019)


INTERSTATE 90 (I-90)

FUNCTIONAL CLASSIFICATION: INTERSTATE

POSTED SPEED: 70 MPH


ADT: 136,300 (2019)

APPLIES TO SHEETS 1-36, 65-86



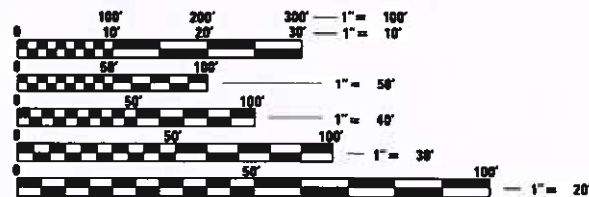
AMY J. PATEL  
082-08871  
LICENSED PROFESSIONAL ENGINEER, STATE OF ILLINOIS  
EXPIRES 11/30/2025

APPLIES TO SHEETS 37-68



ARTHUR NOWAK  
81-5884  
LICENSED STRUCTURAL ENGINEER, STATE OF ILLINOIS  
EXPIRES 11/30/2024

MUNICIPALITIES:  
BARRINGTON TOWNSHIP  
HANOVER TOWNSHIP  
VILLAGE OF HOFFMAN ESTATES



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

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

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

CONTRACT NO. 62P12

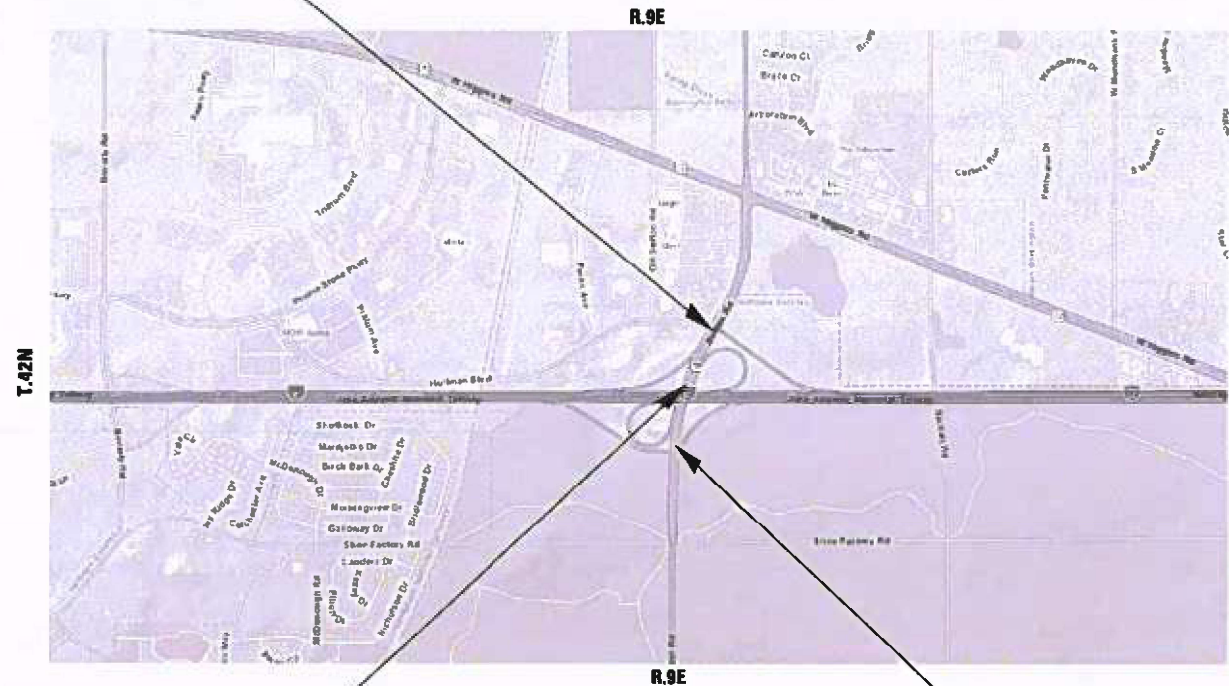
# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

## PROPOSED HIGHWAY PLANS

F.A.P ROUTE 338: IL ROUTE 59 OVER I-90  
(JAMES ADAM MEMORIAL TOLLWAY)  
SECTION 2021-075-BDR&BJR  
PROJECT NO. NHPP-ZA91(642)  
BRIDGE DECK OVERLAY AND BRIDGE JOINT REPAIRS  
COOK COUNTY

C-91-204-21

PROJECT ENDS  
STA. 793 + 00



BRIDGE DECK REPAIRS  
SN 016-2599

BARRINGTON TOWNSHIP  
HANOVER TOWNSHIP  
VILLAGE OF HOFFMAN ESTATES

GROSS LENGTH = 2500 FT. = 0.47 MILE

PROJECT BEGINS  
STA. 768 + 00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	1
		ILLINOIS	CONTRACT NO. 62P12	

D-81-168-21



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Jan 25, 2024  
Jose Diaz IR  
REGIONAL ENGINEER

March 22, 2024 Scott A. Elk  
ENGINEER OF DESIGN AND ENVIRONMENT

March 22, 2024 Stephen M. Smith  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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FINAL — JANUARY 26, 2024

**Bowman**  
311 S. Wacker Drive, Suite 1950  
Chicago, Illinois 60606  
312-674-0360  
www.bowman.com

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## IDOT HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
482006-03	HMA SHOULDER ADJACENT TO RIGID PAVEMENT
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
642006-01	SHOULDER RUMBLE STRIPS, 8 IN.
701101-05	OFF-ROAD OPERATIONS, MULTILANE, LESS THAN 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ≥ 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ≤ 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W, WITH NONTRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE, INTERSECTION
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

## ILLINOIS TOLLWAY STANDARDS

E2-10	LANE CLOSURE DETAILS
E3-09	SHOULDER CLOSURE DETAILS

MODEL: D:\c\j\...  
 FILE NAME: P:\0\00038 - IDOT\040058\01-002 (ENG) - PTB 195-016 Phase II for Var\Engineering\WO 18 - IL 59 over 190500 Drawing\502 CADD Sheets\0162112-shc-index-statestandards.dgn



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

<b>INDEX OF SHEETS AND HIGHWAY STANDARDS</b>	
SCALE: NONE	SHEET OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	2
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

1. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND BARRINGTON TOWNSHIP AND HANOVER TOWNSHIP.
2. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
3. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
5. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
6. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.  
  
THE RESIDENT ENGINEER SHALL CONTACT FADI SULTAN, THE AREA TRAFFIC FIELD ENGINEER, AT FADI.SULTAN@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
7. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED THEIR LOCATION.
8. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
9. 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.
10. 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 A SEPARATE PAY ITEM HAS BEEN PROVIDED.
11. FOR FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING, REUSE EXISTING FRAME AND LID UNLESS OTHERWISE SPECIFIED IN THE PLANS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.
13. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
14. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
15. SAWING OF REMOVAL ITEMS AS NOTED ON THE PLANS, SPECIFIED IN THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.
16. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS CONTRACT.

**COMMITMENTS**

NONE

18. THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM SEWER, WATER MAIN, SANITARY SEWER, AND OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE, AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE PER ARTICLES 105.07 AND 107.31 OF THE STANDARD SPECIFICATIONS. WHEN REQUIRED, LOCATING UTILITIES SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR EXPLORATION TRENCH, SPECIAL.
19. MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE: NA
20. THE CONTRACTORS SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA
21. 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.
22. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
23. THE CONTRACTOR SHALL CONTACT THE IDOT ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171 AT LEAST TWO WEEKS PRIOR TO BEGINNING LANSCAPE AND FORESTRY WORK.
24. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE PROVIDED TO PROTECT ROADWAY, ADJACENT PROPERTIES, AND WATER COURSES AS PER SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
25. USE EXTREME CAUTION NEAR GAS FACILITIES DURING CONSTRUCTION AND RELATED EXCAVATION ACTIVITIES. HAND DIG OR NON-INVASIVE EXCAVATION IS REQUIRED TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF GAS FACILITIES PRIOR TO CROSSING AND WORKING WITHIN 3 FEET OF ALL GAS FACILITIES. A MINIMUM OF 3' HORIZONTAL EDGE TO EDGE CLEARANCE IS REQUIRED FOR GAS FACILITIES WITH DIAMETERS OF 16" OR SMALLER, AND 5FT EDGE TO EDGE CLEARANCE FOR GAS FACILITIES WITH DIAMETERS 18" AND LARGER. MAINTAIN A MINIMUM OF 18" EDGE TO EDGE VERTICAL CLEARANCE WHEN CROSSING GAS FACILITIES 16" OR LESS IN DIAMETER, AND 24" EDGE TO EDGE VERTICAL CLEARANCE WHEN CROSSING 18" AND LARGER DIAMETER GAS FACILITIES.
26. IF EXISTING AREAS OR EMBANKMENTS OF 2:1 SLOPE OR STEEPER ARE DISTURBED DUE TO CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL PERMANENTLY STABILIZE THE LOCATION WITH A DURABLE APPROVED PRODUCT OR RIPRAP.
27. ANY SEDIMENT OR SOIL TRACKED OFF THE SITE SHALL BE REMOVED BY SCRAPING OR STREET SWEEPING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RETURNING ALL EXISTING AREAS (TO REMAIN) AFFECTED BY CONSTRUCTION ACTIVITIES, EQUIPMENT, OR LABORERS TO THE ORIGINAL UNDISTURBED CONDITIONS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL THE COMPLETION OF THE CONTRACT.
29. THE PERIMETER EROSION BARRIER SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. AT THIS TIME, THE PERIMETER EROSION BARRIER SHALL BE REMOVED AND AREAS DAMAGED BY THE PERIMETER EROSION BARRIER REMOVAL SHALL BE RESTORED. THE RESTORATION OF THE AREA DISTURBED BY THE PERIMETER EROSION REMOVAL SHALL BE INCLUDED IN THE PAY ITEM OF PERIMETER EROSION BARRIER.
30. THE INSTALLATION & REMOVAL OF PERIMETER EROSION BARRIER SHALL BE PAID FOR UNDER THE ITEM OF PERIMETER EROSION BARRIER.
31. THE CONTRACTOR SHALL TAKE MEASURES TO PROTECT THE IDOT LIGHTING CONDUIT WHICH LOCATES THROUGH ALL JOINTS AT THE PARAPET.
32. THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.
33. CONTRACTOR SHALL PLACE PORTABLE CHANGEABLE MESSAGE SIGNS 2 WEEKS PRIOR TO THE BEGINNING OF THE 1ST TRAFFIC STAGE, 1 WEEK INTO THE 1ST TRAFFIC STAGE, 1 WEEK PRIOR TO ANY SUBSEQUENT TRAFFIC STAGE CHANGES AND 1 WEEK INTO THE CORRESPONDING TRAFFIC STAGE. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AT THE APPROACH TO THE PROJECT LIMITS ALONG IL-59 AS WELL AS AT IL TOLLWAY PLAZA 14 AND 16A APPROACH TO IL-59.
34. ANY AGGREGATE SUBGRADE IMPROVEMENTS CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTORS EXPENSE.

MODEL: Unintd (Sheet) FILE NAME: P:\040058 - IDOT\040058-01-202 (ENG)- FTB-195-016 Phase II Vot Vot\Engineering\WO\_18-18-1L\_59 over B05500 Drawings\502\_CADD\_Sheets\01.62P12-01-2024.dgn

 <p>311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606 312-454-0500 www.bowman.com</p>	USER NAME = vvesco	DESIGNED - VV	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES ILLINOIS ROUTE 59 OVER INTERSTATE 90</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = 0.16666633 1/ in.	CHECKED - AP	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	0338	2021-075-BDR&BJR	COOK	86	3
	PLOT DATE = 01/29/2024	DATE - 01/29/2024	REVISED -						CONTRACT NO. 62P12						
										ILLINOIS   FED. AID PROJECT					

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED	
				20% STATE	
				BRIDGE	
				0059	
				SN 016-2599	
20101000	TEMPORARY FENCE	FOOT	2,945	2,945	
20200100	EARTH EXCAVATION	CU YD	401	401	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	51	51	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	225	225	
25000210	SEEDING, CLASS 2A	ACRE	0.42	0.42	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	37.80	37.80	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	37.80	37.80	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	38	38	
25100630	EROSION CONTROL BLANKET	SQ YD	2,024	2,024	
25200200	SUPPLEMENTAL WATERING	UNIT	1	1	
28000400	PERIMETER EROSION BARRIER	FOOT	2,947	2,947	
28000510	INLET FILTERS	EACH	25	25	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	932	932	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2,366	2,366	
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	565	565	

\* SPECIALTY ITEMS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
ILLINOIS ROUTE 59 OVER INTERSTATE 90**

SCALE: NONE SHEET 1 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	4
			CONTRACT NO. 62P12	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED	
				20% STATE	
				BRIDGE	
				0059	
				SN 016-2599	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1,776	1,776	
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	785	785	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	850	850	
44003100	MEDIAN REMOVAL	SQ FT	3,313	3,313	
44004250	PAVED SHOULDER REMOVAL	SQ YD	3,626	3,626	
44201299	DOWEL BARS 1 1/2"	EACH	340	340	
44213200	SAW CUTS	FOOT	600	600	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	734	734	
50102400	CONCRETE REMOVAL	CU YD	17.2	17.2	
50157300	PROTECTIVE SHIELD	SQ YD	3,213	3,213	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	20.1	20.1	
50300300	PROTECTIVE COAT	SQ YD	3,444	3,444	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3,900	3,900	
50800515	BAR SPLICERS	EACH	32	32	
52000030	PREFORMED JOINT SEAL 2 1/2"	FOOT	16.0	16.0	

\* SPECIALTY ITEMS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
ILLINOIS ROUTE 59 OVER INTERSTATE 90			
SCALE: NONE	SHEET 2	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	5
			CONTRACT NO. 62P12	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED	
				20% STATE	
				BRIDGE	
				0059	
				SN 016-2599	
52000040	PREFORMED JOINT SEAL 3 1/2"	FOOT	44.0	44.0	
52000050	PREFORMED JOINT SEAL 4"	FOOT	90.0	90.0	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	316.0	316.0	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	12	12	
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	6	6	
55100500	STORM SEWER REMOVAL 12"	FOOT	12	12	
55100700	STORM SEWER REMOVAL 15"	FOOT	6	6	
58700300	CONCRETE SEALER	SQ FT	8,160	8,160	
59000200	EPOXY CRACK INJECTION	FOOT	23	23	
60220200	MANHOLES, TYPE A, 4'-DIAMETER	EACH	1	1	
60250200	CATCH BASINS TO BE ADJUSTED	EACH	3	3	
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1	
60260100	INLETS TO BE ADJUSTED	EACH	1	1	
60262700	INLETS TO BE RECONSTRUCTED	EACH	3	3	
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	2	2	

\* SPECIALTY ITEMS

MODEL: D:\p\h\h  
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
ILLINOIS ROUTE 59 OVER INTERSTATE 90			
SCALE: NONE	SHEET 3	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE. 0338	SECTION 2021-075-BDR&BJR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 6
			CONTRACT NO. 62P12	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED	20% STATE
				BRIDGE	
				0059	SN 016-2599
60500040	REMOVING MANHOLES	EACH	1	1	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	170	170	
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	1,305	1,305	
60620000	CONCRETE MEDIAN, TYPE SB-6.24	SQ FT	3,156	3,156	
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	1,033	1,033	
63301990	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 1	EACH	2	2	
63302000	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 2	EACH	3	3	
63302400	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 5	EACH	3	3	
63302710	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6A	EACH	2	2	
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	2,618	2,618	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	405	405	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	25	25	

\* SPECIALTY ITEMS

MODEL: D:\p\h\h\...  
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PLOT DATE = 01/29/2024		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
ILLINOIS ROUTE 59 OVER INTERSTATE 90			
SCALE: NONE	SHEET 4	OF 8 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	7
CONTRACT NO. 62P12			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED	
				20% STATE	
				BRIDGE	
				0059	
				SN 016-2599	
67100100	MOBILIZATION	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	75	75	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	196	196	
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	13,567	13,567	
70307100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	SQ FT	546	546	
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	22,349	22,349	
70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	10,454	10,454	
70307140	TEMPORARY PAVEMENT MARKING - LINE 8" - TYPE IV TAPE	FOOT	124	124	
70307160	TEMPORARY PAVEMENT MARKING - LINE 12" - TYPE IV TAPE	FOOT	262	262	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2,850	2,850	
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	435	435	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	4,325	4,325	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4	
70600270	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	EACH	2	2	

\* SPECIALTY ITEMS

MODEL: Default  
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PLOT DATE = 01/29/2024	DATE - 01/29/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
ILLINOIS ROUTE 59 OVER INTERSTATE 90			
SCALE: NONE	SHEET 5	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE. 0338	SECTION 2021-075-BDR&BJR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 8
CONTRACT NO. 62P12			ILLINOIS FED. AID PROJECT	



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED	
				20% STATE	
				BRIDGE	
				0059	
				SN 016-2599	
70600327	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	EACH	2	2	
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,204	1,204	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1,428	1,428	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	404	404	
* 78004635	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 7"	FOOT	1,738	1,738	
* 78008345	POLYUREA PAVEMENT MARKING TYPE II - LINE 10"	FOOT	226	226	
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	401	401	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	7,308	7,308	
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	1,024	1,024	
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	3,304	3,304	
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	341	341	
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	152	152	
* 78011040	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	1,738	1,738	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	40	40	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	10	10	

\* SPECIALTY ITEMS

MODEL: Default  
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
ILLINOIS ROUTE 59 OVER INTERSTATE 90			
SCALE: NONE	[ SHEET 6	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	9
			CONTRACT NO. 62P12	
[ ILLINOIS ] FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED	20% STATE
				BRIDGE	
				0059	SN 016-2599
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	70	70	
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	7,242	7,242	
K0029632	WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL	GALLON	1	1	
<input type="checkbox"/> X0322215	CLEANING BRIDGE SCUPPERS AND DOWNSPOUTS	EACH	13	13	
X0322463	CONNECTION TO EXISTING SEWER	EACH	3	3	
X0326766	CLEAN & RESEAL RELIEF JOINT	FOOT	248	248	
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	2,618	2,618	
<input type="checkbox"/> X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	912	912	
<input type="checkbox"/> X5537900	STORM SEWERS TO BE CLEANED 15"	FOOT	68	68	
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12	
X7010005	MAINTENANCE OF TRAFFIC (ILLINOIS TOLLWAY)	L SUM	1	1	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X7010410	SPEED DISPLAY TRAILER	CAL MO	7	7	
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	214	214	
* X7830052	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT	EACH	214	214	

NON-PART 100% STATE \* SPECIALTY ITEMS

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<b>Bowman</b> 311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606 312-494-0360 www.bowman.com	USER NAME = vvesco	DESIGNED - VV	REVISED -
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		DATE - 01/29/2024	REVISIONS -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
ILLINOIS ROUTE 59 OVER INTERSTATE 90**

SCALE: NONE SHEET 7 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	10
CONTRACT NO. 62P12			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED	20% STATE	
				BRIDGE		
				0059		
				SN 016-2599		
* X8860105	DETECTOR LOOP REPLACEMENT	FOOT	136	136		
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	28.8	28.8		
Z0006016	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4 INCHES	SQ YD	3,399	3,399		
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	3,399	3,399		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	50.0	50.0		
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	10.0	10.0		
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	0.5	0.5		
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	1.0	1.0		
Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	13	13		
□ Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	2	2		
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	3,176	3,176		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52		
Z0041895	POLYMER CONCRETE	CU FT	14.4	14.4		
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	5	5		
44 200 972	CLASS B PATCHES, TYPE II, 10 1/2 INCH	SQ YD	120	120		

□NON-PART 100% STATE \* SPECIALTY ITEMS

MODEL: Default  
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
ILLINOIS ROUTE 59 OVER INTERSTATE 90**

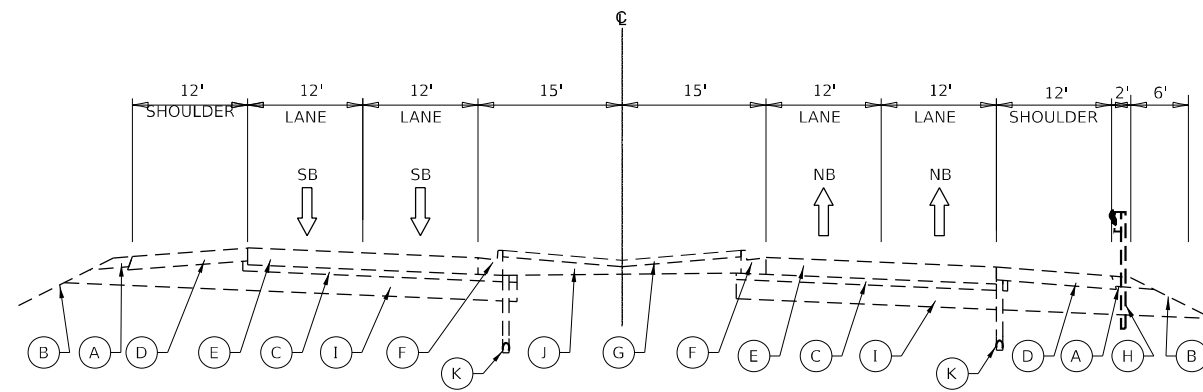
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P12			ILLINOIS FED. AID PROJECT	



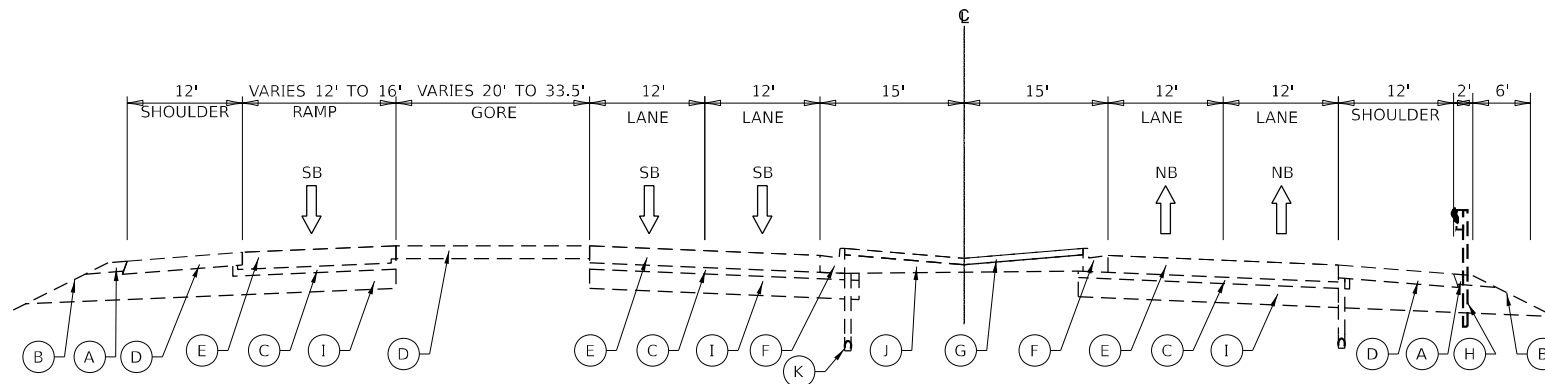
**EXISTING LEGEND**

- (A) AGGREGATE SHOULDERS, TYPE B 6"
- (B) TOPSOIL 4"
- (C) STABILIZED SUBBASE 4"
- (D) HOT-MIX ASPHALT (HMA) SHOULDERS 8"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT 10½"
- (F) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (G) CONCRETE MEDIAN SURFACE, 4"
- (H) STEEL PLATE BEAM GUARDRAIL, TYPE A
- (I) AGGREGATE SUBGRADE 12"
- (J) SAND FILL
- (K) PIPE UNDERDRAIN, FABRIC LINED TRENCH 4"



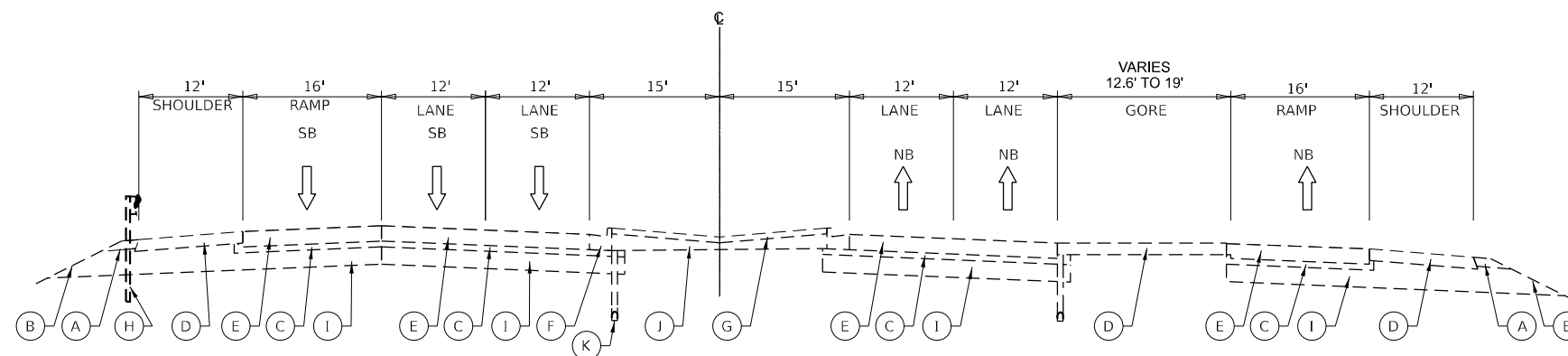
**EXISTING TYP. SECTION**

STA 773+00 TO STA 775+87



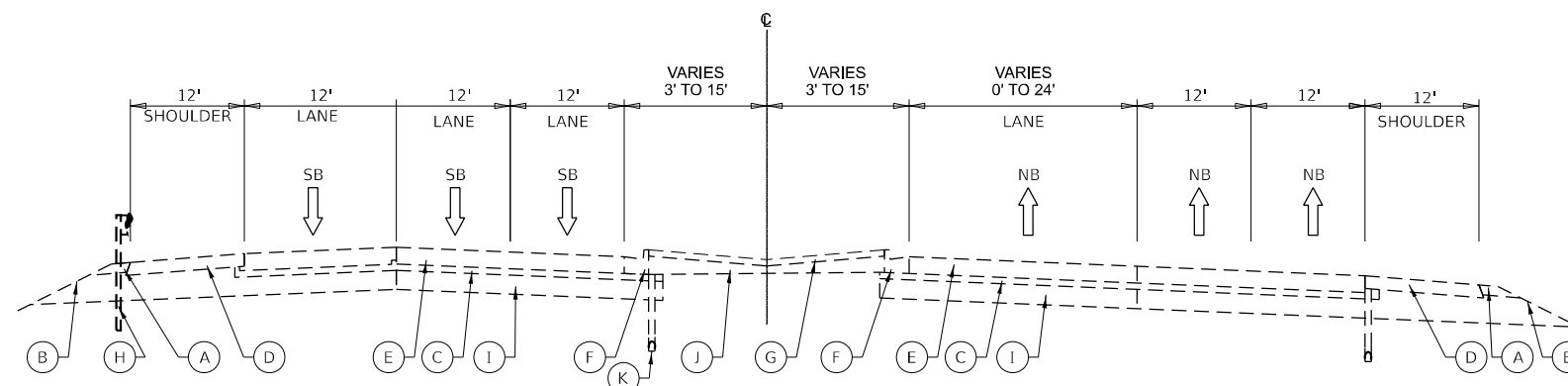
**EXISTING TYP. SECTION**

STA 775+87 TO STA. 776+94



**EXISTING TYP. SECTION**

STA 782+53 TO STA. 783+53



**EXISTING TYP. SECTION**

STA 783+53 TO STA. 789+70

MODEL: sheet 5 (1 of 13)  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS  
 ILLINOIS ROUTE 59 OVER INTERSTATE 90

SCALE: 1:50 SHEET 1 OF 2 SHEETS STA. TO STA.

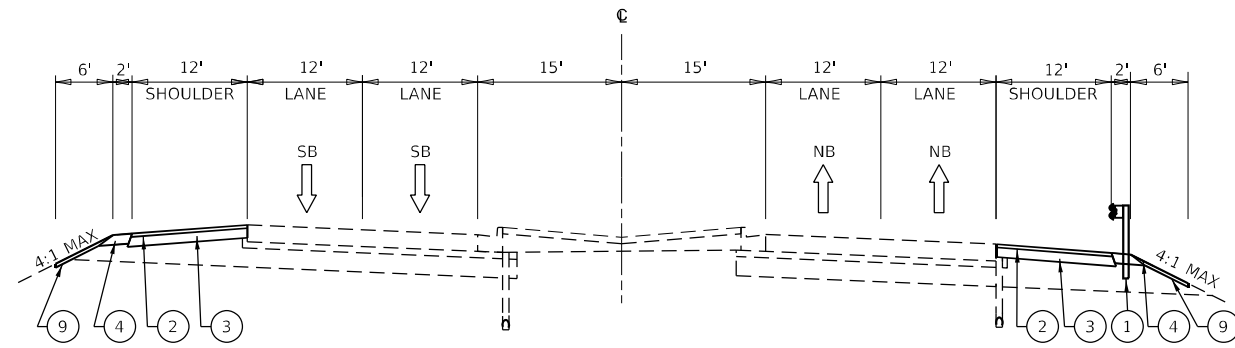
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0338	2021-075-BDR&BJR	COOK	86	13
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				

**PROPOSED LEGEND**

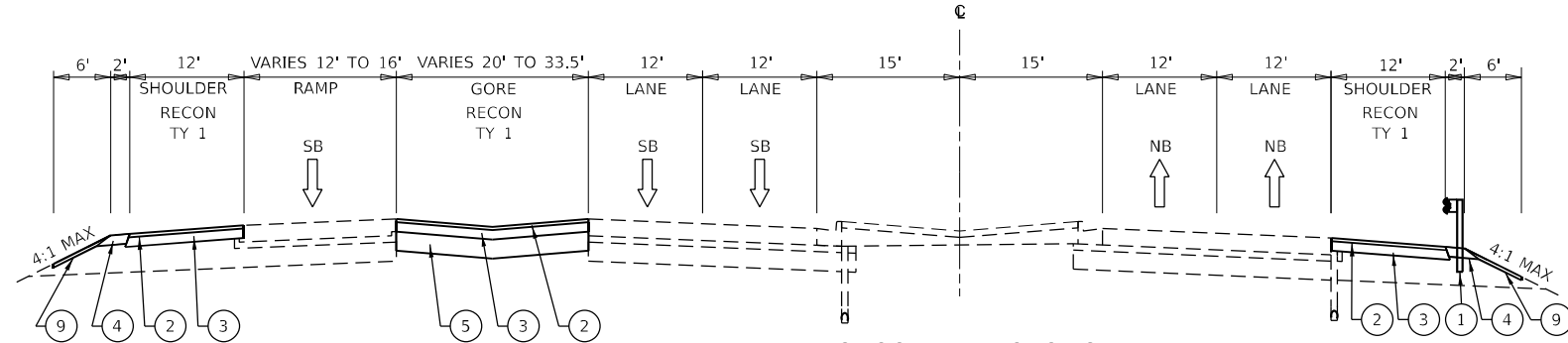
- ① REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A (63301210)
- ② 1-3/4" POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70 (40604172)
- ③ 6-1/4" HMA BINDER COURSE, IL-19.0, N70 (40603085)
- ④ AGGREGATE SHOULDERS, TYPE B 6" (48101500)
- ⑤ 12" AGGREGATE SUBGRADE IMPROVEMENT (303001120)
- ⑥ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (60605000)
- ⑦ CONCRETE MEDIAN SURFACE, 4" (40604060)
- ⑧ POROUS GRANULAR EMBANKMENT (20700220)
- ⑨ TOPSOIL PLACEMENT, 4" (SEE NOTE \*)

**NOTES**

\*PAID FOR AS TOPSOIL EXCAVATION AND PLACEMENT (21101505) AND COMBINATION SEEDING, CLASS 2A (25000210)



**PROPOSED TYP. SECTION**  
STA 773+00 TO STA 775+87

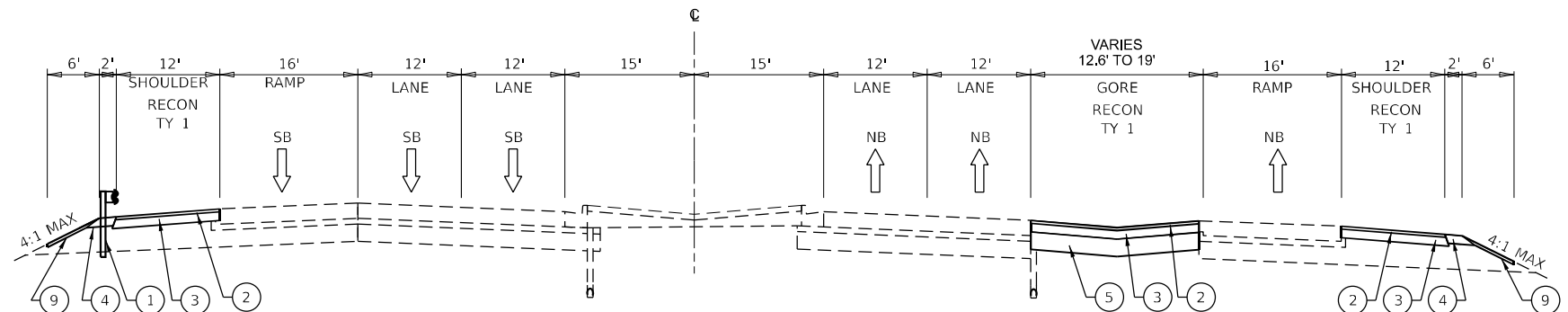


**PROPOSED TYP. SECTION**  
STA 775+87 TO STA. 776+94

SEE HMA OVERLAY & BUTT JOINT DETAIL  
STA 776+94 TO STA. 777+29

SEE ROADWAY, HMA TAPER DETAILS, AND STRUCTURAL REPAIRS PLANS  
STA 776+94 TO STA 782+15

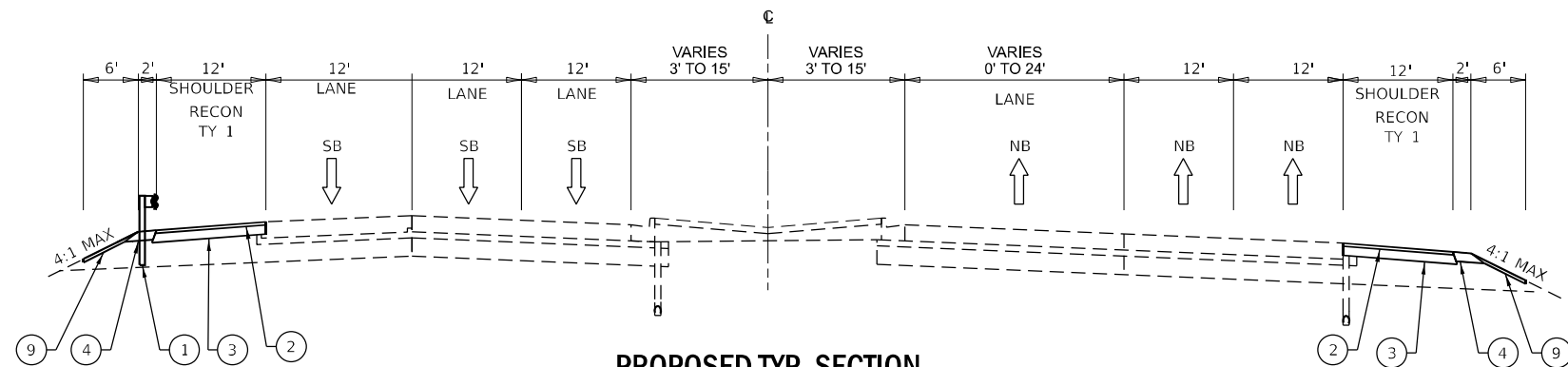
SEE HMA OVERLAY & BUTT JOINT DETAIL  
STA 777+12 TO STA. 777+47



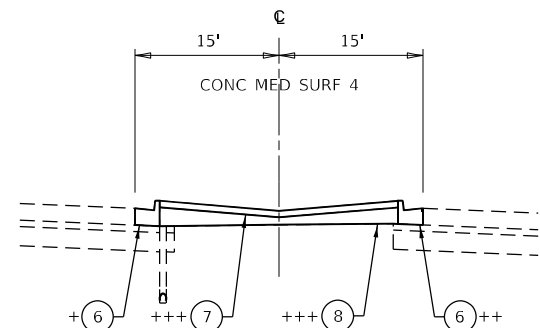
**PROPOSED TYP. SECTION**  
STA 782+53 TO STA. 783+53

SEE HMA OVERLAY & BUTT JOINT DETAIL  
STA 781+92 TO STA. 782+27

SEE HMA OVERLAY & BUTT JOINT DETAIL  
STA 782+18 TO STA. 782+53



**PROPOSED TYP. SECTION**  
STA 783+53 TO STA. 789+70



**PROPOSED MEDIAN WITH CURB AND GUTTER**

+ STA 777+24 TO STA 777+39 AND STA 778+22 TO STA 788+44  
++ STA 777+12 TO STA 777+50  
+++ STA 778+22 TO STA 778+47 AND STA 780+95 TO STA 781+20

HMA MIX REQUIREMENTS TABLE		QMP
MIXTURE TYPE	AIR VOIDS @ NDES	
<b>SHOULDER RECONSTRUCTION - TYPE 1</b>		
1-3/4" POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX E, IL-9.5, N70	4% @ 70 GYR.	QC/QA
6-1/4" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	QC/QA
<b>SHOULDER RECONSTRUCTION - TYPE 2</b>		
1-3/4" POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX E, IL-9.5, N70	4% @ 70 GYR.	QC/QA
6-1/4" TO 8" DEPTH HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	QC/QA
<b>HMA OVERLAY (&amp; BUTT JOINT) - TYPE 1</b>		
1-3/4" POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX E, IL-9.5, N70	4% @ 70 GYR.	QC/QA
6-1/4" TO 8" DEPTH HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	QC/QA
<b>GORE RECONSTRUCTION - TYPE 1</b>		
1-3/4" POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX E, IL-9.5, N70	4% @ 70 GYR.	QC/QA
6-1/4" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	QC/QA
<b>GORE RECONSTRUCTION - TYPE 2</b>		
1-3/4" POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX E, IL-9.5, N70	4% @ 70 GYR.	QC/QA
6-1/4" TO 8" DEPTH HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	QC/QA
<b>GORE RECONSTRUCTION - TYPE 3</b>		
1-3/4" POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX E, IL-9.5, N70	4% @ 70 GYR.	QC/QA

QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)  
NOTES:  
1. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.  
2. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

MODEL: sheet 6 (1 of 4) FILE NAME: P:\03085 - IDOT\040058-01-2022 (ENGL) - FTB-195-016 Phase II For Vot\Engineering\W0\_18 - IL 59 over I90\500 Drawings\501\_CADD\Drawings\162P12-Typical Sections.dgn



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

**TYPICAL SECTIONS**  
**ILLINOIS ROUTE 59 OVER INTERSTATE 90**

F.A.P. RTE. 0338	SECTION 2021-075-BDR&BJR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 14
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				

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

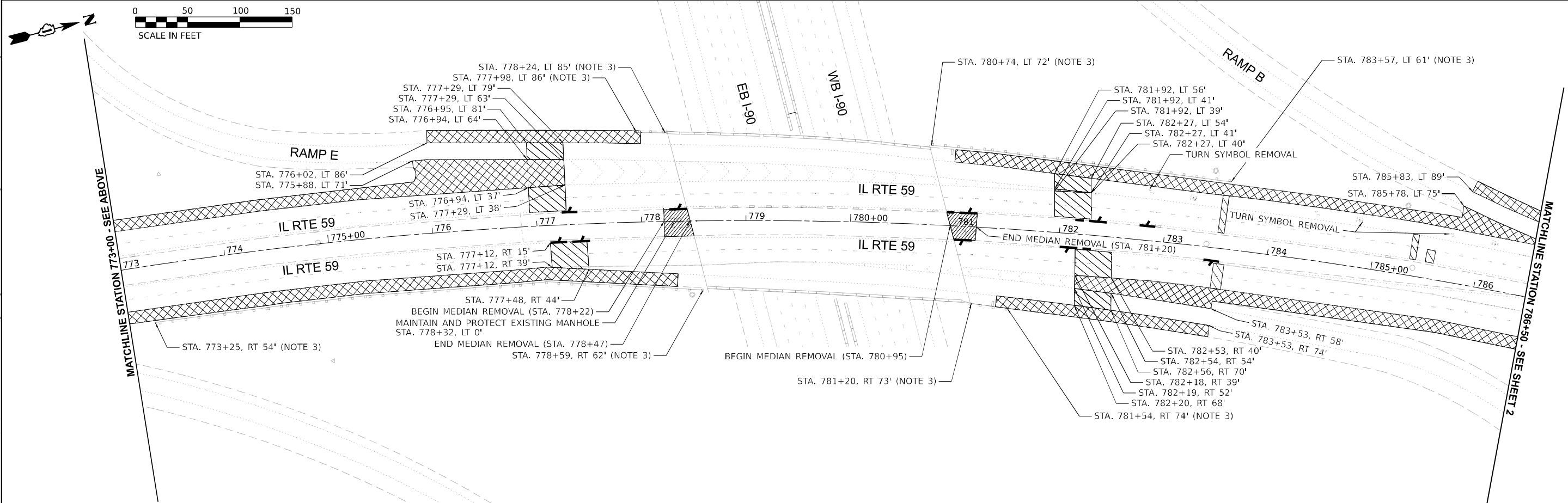
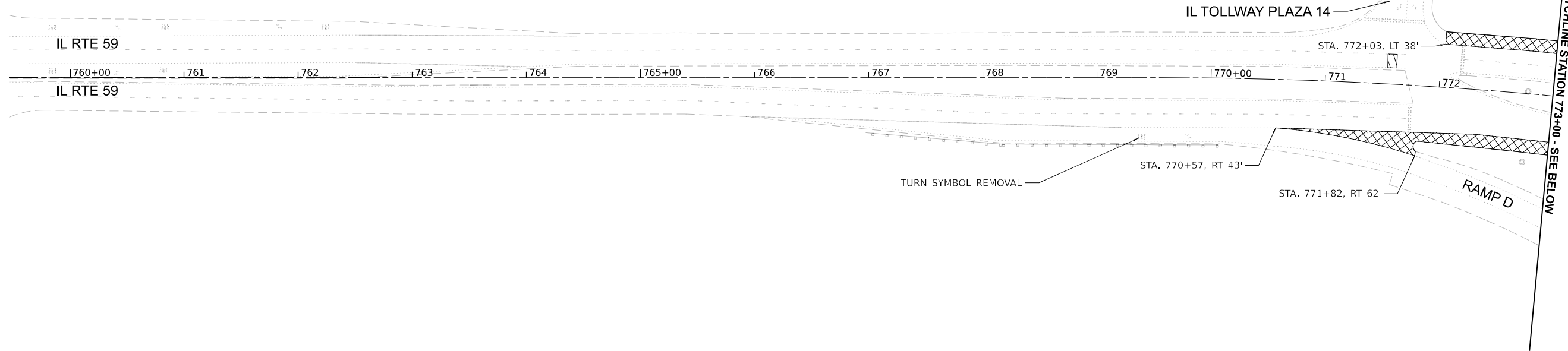
**REMOVAL LEGEND**

-  PAVED SHOULDER REMOVAL (44004250) (NOTE 2)
-  PCC SURFACE REMOVAL - BUTT JOINT (40600985)
-  MEDIAN REMOVAL (44003100)
-  COMBINATION CURB AND GUTTER REMOVAL (44000500)

**NOTES**

1. ALL PAVEMENT MARKING REMOVAL TO BE PAID FOR AS: PAVEMENT MARKING REMOVAL - WATER BLASTING (78300202).
2. GORE REMOVAL TO BE PAID FOR AS PAVED SHOULDER REMOVAL (44004250).
3. SEE ROADWAY PLANS FOR GUARDRAIL WORK.
4. MEDIAN REMOVAL PAY ITEM TO INCLUDE REMOVAL OF EXISTING SAND FILL.
5. SEE ROADWAY PLANS FOR CLASS B PATCHES. SAWCUT SHALL BE QUANTIFIED BASED ON THE PERIMETER OF CLASS B PATCHES.
6. GORE AREAS WILL REQUIRE THE REMOVAL AND REPLACEMENT OF AGGREGATE SUBGRADE MATERIAL. AGGREGATE SUBGRADE MATERIAL REMOVAL TO BE PAID FOR AS EARTH EXCAVATION.

7. EXISTING TRAFFIC SIGNAL DETECTOR LOOPS AND HANDHOLES SHALL BE PROTECTED DURING SHOULDER AND GORE RECONSTRUCTION.



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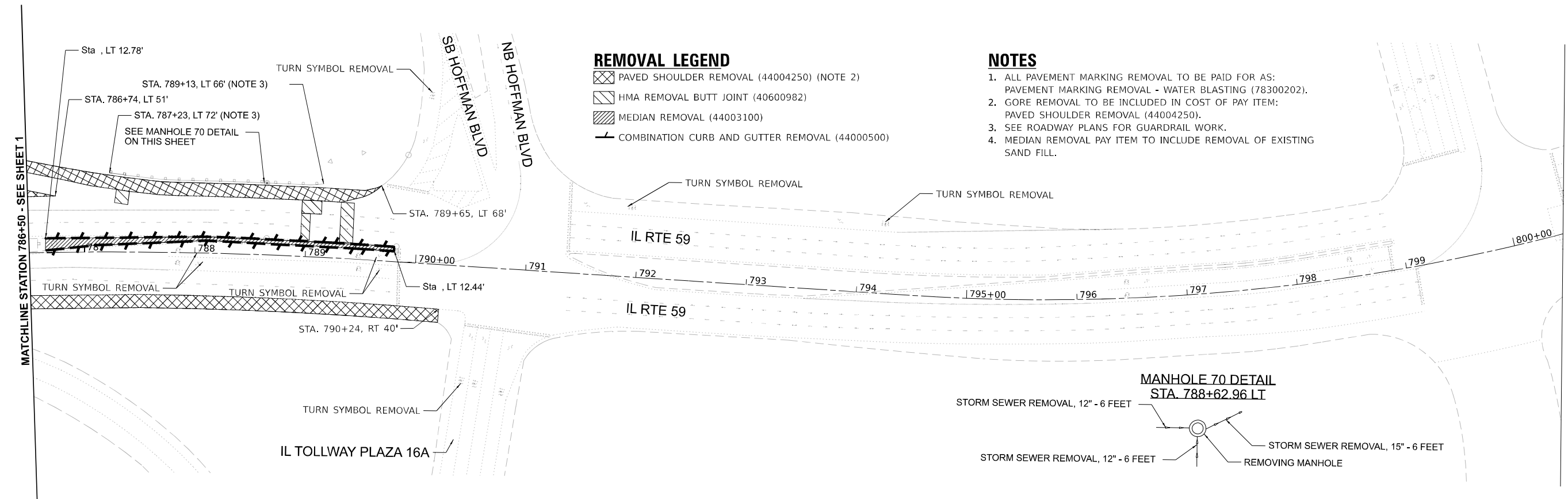
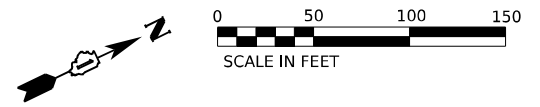


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PLOT SCALE = 0.16666633 1/ in.	DRAWN - VV	REVISED -
PLOT DATE = 01/29/2024	CHECKED - AP	REVISED -
	DATE - 01/29/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>REMOVAL PLAN</b>			
<b>ILLINOIS ROUTE 59 OVER INTERSTATE 90</b>			
SCALE: 1:50	SHEET 1	OF 3 SHEETS	STA. 759+46.84 TO STA. 786+50

F.A.P. RTE. 0338	SECTION 2021-075-BDR&BJR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 15
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				



- REMOVAL LEGEND**
- PAVED SHOULDER REMOVAL (44004250) (NOTE 2)
  - HMA REMOVAL BUTT JOINT (40600982)
  - MEDIAN REMOVAL (44003100)
  - COMBINATION CURB AND GUTTER REMOVAL (44000500)

- NOTES**
1. ALL PAVEMENT MARKING REMOVAL TO BE PAID FOR AS: PAVEMENT MARKING REMOVAL - WATER BLASTING (78300202).
  2. GORE REMOVAL TO BE INCLUDED IN COST OF PAY ITEM: PAVED SHOULDER REMOVAL (44004250).
  3. SEE ROADWAY PLANS FOR GUARDRAIL WORK.
  4. MEDIAN REMOVAL PAY ITEM TO INCLUDE REMOVAL OF EXISTING SAND FILL.

MODEL: R:\projects\62P12\Drawings\1502\_CADD\_Sheets\1502\_CADD\_Sheets\1502\_CADD\_Sheets\1502\_CADD\_Sheets\1502\_CADD\_Sheets.dgn  
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<b>Bowman</b> 311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606 312-454-0500 www.bowman.com	USER NAME = vvesco	DESIGNED - VV	REVISED -
	PLOT SCALE = 0.16666633 1/ in.	DRAWN - VV	REVISED -
	PLOT DATE = 01/29/2024	CHECKED - AP	REVISED -
		DATE - 01/29/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>REMOVAL PLAN</b>			
<b>ILLINOIS ROUTE 59 OVER INTERSTATE 90</b>			
SCALE: 1:50	SHEET 2	OF 3 SHEETS	STA. 786+50 TO STA. 800+45.18

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	16
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING REMOVAL – WATER BLASTING (78300202)**

SCHEDULE OF PAVEMENT MARKING TO BE REMOVED BEFORE BEGINNING OF CONSTRUCTION

MEASURED FROM IL 59 ALIGNMENT								
DESCRIPTION	BEGIN STA	END STA	BEGIN OFFSET	END OFFSET	L/R	TOTAL LENGTH	MULTIPLIER*	AREA (SQ FT)
4" SOLID LINE	760+94.23	771+78.42	5.83	17.17	R	1084.19	0.33	357.78
10' DASH 30' SKIP	760+94.10	771+73.70	17.83	29.3	R	1079.60	0.0833	89.93
2' DASH 6' SKIP	765+91.55	769+21.38	34.13	43.72	R	329.83	0.0833	27.47
8" SOLID LINE	769+21.38	770+57.03	43.72	42.68	R	135.65	0.66	89.53
RIGHT TURN ONLY	769+83.76		52.32		R			36.4
4" SOLID LINE	770+57.03	772+11.75	58.66	86.69	R	154.94	0.33	51.13
4" SOLID LINE	772+15.35	789+78.86	13.87	14.4	L	1763.51	0.33	581.96
10' DASH 30' SKIP	772+20.25	789+78.90	25.57	26.4	L	1758.65	0.0833	146.50
4" SOLID LINE	772+97.67	789+78.84	16.36	8.4	R	1681.17	0.33	554.79
10' DASH 30' SKIP	773+03.42	789+78.73	28.79	27.6	R	1675.31	0.0833	139.55
4" SOLID LINE	775+23.54	776+01.51	90.31	86.42	L	79.81	0.33	26.34
4" SOLID LINE	775+52.91	775+86.53	71.67	70.51	L	33.62	0.33	11.09
10' DASH 30' SKIP	777+07.50	779+67.21	39.62	39.15	R	259.71	0.0833	21.63
8" SOLID LINE	777+28.57	782+31.52	37.92	40.48	L	502.95	0.66	331.95
8" SOLID LINE	777+28.57	782+31.52	62.56	40.48	L	510.21	0.66	336.74
GORE	777+28.57	781+92.30	62.56	41.39	L	457.74	1.00	457.74
8" SOLID LINE	778+01.20	780+96.66	74.84	61.02	L	301.12	0.66	198.74
8" SOLID LINE	778+34.23	781+43.98	50.38	64.52	R	305.4	0.66	201.56
8" SOLID LINE	779+67.21	782+18.09	39.15	40.5	R	250.88	0.66	165.58
8" SOLID LINE	779+67.21	782+18.86	39.15	51.98	R	248.98	0.66	164.33
GORE	779+67.21	782+18.86	39.15	51.98	R	99.58	1.00	99.58
8" SOLID LINE	782+31.52	786+36.46	40.48	38.67	L	404.94	0.66	267.26
RIGHT TURN ONLY	782+80.29		48.1		L			36.4
4" SOLID LINE	783+33.10	784+26.81	73.4	77.95	R	91.76	0.33	30.28
4" SOLID LINE	783+38.93	784+27.39	57.64	61.96	R	87.18	0.33	28.77
2' DASH 6' SKIP	783+39.82	787+76.00	14.42	15.81	R	436.18	0.0833	36.33
RIGHT TURN ONLY	784+38.79		46.26		L			36.4
4" SOLID LINE	784+70.70	785+76.94	111.22	74.58	L	114.84	0.33	37.90
4" SOLID LINE	784+77.52	785+82.68	125.64	89.52	L	114.12	0.33	37.66
RIGHT TURN ONLY	785+68.82		45.81		L			36.4
2' DASH 6' SKIP	786+36.46	788+17.05	38.67	39.01	L	180.59	0.0833	15.04
8" SOLID LINE	787+76.00	789+78.77	15.81	15.6	R	202.77	0.66	133.83
8" SOLID LINE	787+76.23	789+78.81	3.6	3.6	R	202.58	0.66	133.70
RIGHT TURN ONLY	788+02.34		2.14		L			36.4
RIGHT TURN ONLY	788+05.21		8.94		R			36.4
10' DASH 30' SKIP	788+08.90	789+36.00	594.09	344.34	L	287.65	0.0833	23.96
10' DASH 30' SKIP	788+17.05	789+78.94	39.01	38.4	L	161.89	0.0833	13.49
8" SOLID LINE	789+36.00	790+30.17	344.34	149.87	L	217.74	0.66	143.71
STOP BAR	789+66.38	790+07.21	68.88	64.29	L	41.53	2.00	83.06
RIGHT TURN ONLY	789+68.46		4.69		L			36.4
RIGHT TURN ONLY	789+69.51		7.27		R			36.4
8" SOLID LINE	789+88.74	790+05.97	67.58	212.7	L	151.34	0.66	99.88
GORE	789+88.74	790+05.97	67.58	212.7	L	148.82	1.00	148.82
4" SOLID LINE	789+99.80	790+48.23	551.6	49.52	R	504.41	0.33	166.46
RIGHT TURN ONLY	790+00.88		108.45		L			36.4
2' DASH 6' SKIP	790+28.60	790+37.74	370.99	278.22	R	93.23	0.0833	7.77
8" SOLID LINE	790+37.74	790+59.89	278.22	53.39	R	225.72	0.66	148.98
RIGHT TURN ONLY	790+54.19		60.09		R			36.4
8" SOLID LINE	791+36.61	794+33.41	56.08	56.08	L	296.80	0.66	195.89
10' DASH 30' SKIP	791+36.83	798+88.14	44.08	52.19	L	751.31	0.0833	62.58
10' DASH 30' SKIP	791+37.05	798+88.03	32.08	40.19	L	750.98	0.0833	62.56
4" SOLID LINE	791+45.24	798+90.10	20.08	22.17	L	744.86	0.33	245.80
RIGHT TURN ONLY	791+48.49		63.62		L			36.4
RIGHT TURN ONLY	793+78.19		63.77		L			36.4
2' DASH 6' SKIP	794+33.41	796+36.54	56.08	62.77	L	203.13	0.0833	16.92
10' DASH 30' SKIP	800+53.32	804+75.65	49.59	50.57	L	422.33	0.0833	35.18
8" SOLID LINE	800+54.03	802+83.68	61.6	62.58	L	229.65	0.66	151.57
10' DASH 30' SKIP	800+54.23	804+75.65	37.6	38.57	L	421.42	0.0833	35.10
4" SOLID LINE	800+54.81	803+79.57	25.6	26.58	L	324.76	0.33	107.17
RIGHT TURN ONLY	800+65		69.97		L			36.4
RIGHT TURN ONLY	802+38		70.04		L			36.4
2' DASH 6' SKIP	802+83.68	804+60.02	62.58	62.58	L	176.34	0.0833	14.69
8" SOLID LINE	803+35.28	804+88.17	76.79	102.08	L	167.78	0.66	110.73
12" GORE DIAGONALS	803+35.28	804+60.02	76.79	62.58	L	83.36	1	83.36

\* MULTIPLIER USED TO CONVERT FROM LINEAR FEET OF MARKING TO SQUARE FEET OF MARKING

**RAISED REFLECTIVE PAVEMENT MARKER REMOVAL (78300200)**

MEASURED FROM IL 59 ALIGNMENT

LINE TYPE	BEGIN STA	END STA	BEGIN OFFSET	END OFFSET	L/R	TOTAL LENGTH	# OF MARKERS
8" SOLID LINE	776+94.15	782+31.52	64.21	40.48	L	545.19	14
10' DASH 30' SKIP	776+93.80	782+28.27	25.36	26.71	L	534.47	14
8" SOLID LINE	776+93.91	782+31.52	37.36	40.48	L	543.06	14
10' DASH 30' SKIP	777+12.35	782+52.52	28.39	26.95	R	540.17	14
8" SOLID LINE	779+80.77	782+53.54	39.4	40.28	R	272.77	7
8" SOLID LINE	779+80.77	782+54.55	39.4	53.63	R	270.79	7

NOTE: PAY ITEM 78100100 RAISED REFLECTIVE PAVEMENT MARKER TO BE USED IN SAME LOCATIONS AS PAY ITEM 78300200 DURING PERMANENT PAVEMENT MARKING PLACEMENT. SEE EROSION, LANDSCAPE, AND PAVEMENT MARKING PLANS FOR FURTHER DETAIL.

**RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL (X7830050)**

MEASURED FROM IL 59 ALIGNMENT

LINE TYPE	BEGIN STA	END STA	BEGIN OFFSET	END OFFSET	L/R	TOTAL LENGTH	# OF MARKERS
10' DASH 30' SKIP	760+94.10	771+73.70	17.83	29.3	R	1079.60	27
8" SOLID LINE	769+21.38	770+57.03	43.72	42.68	R	135.65	4
8" SOLID LINE	770+57.83	771+82.39	42.68	41.06	R	124.56	4
8" SOLID LINE	770+57.83	771+82.30	42.68	61.64	R	124.54	4
10' DASH 30' SKIP	772+18.91	776+93.80	25.58	25.36	L	474.89	12
10' DASH 30' SKIP	773+03.42	777+12.35	28.79	28.39	R	408.93	11
8" SOLID LINE	775+86.56	776+94.15	70.51	64.21	L	107.59	3
8" SOLID LINE	775+86.56	776+93.91	37.04	37.36	L	107.35	3
10' DASH 30' SKIP	782+28.27	789+78.90	26.71	26.4	L	750.63	19
8" SOLID LINE	782+31.52	786+36.46	40.48	38.67	L	404.94	11
8" SOLID LINE	782+53.43	783+52.79	38.94	38.74	R	99.36	3
8" SOLID LINE	782+54.55	783+52.78	53.63	58.29	R	98.23	3
10' DASH 30' SKIP	782+52.52	789+78.73	26.95	27.6	R	726.21	19
8" SOLID LINE	785+76.94	786+74.26	74.58	50.87	L	101.74	3
8" SOLID LINE	785+76.94	786+74.26	51.14	50.87	L	97.32	3
8" SOLID LINE	787+76.00	789+78.77	15.81	15.6	R	202.77	6
8" SOLID LINE	787+76.23	789+78.81	3.6	3.6	R	202.58	6
10' DASH 30' SKIP	788+08.90	789+36.00	594.09	344.34	L	287.65	8
10' DASH 30' SKIP	788+17.05	789+78.94	39.01	38.4	L	161.89	5
8" SOLID LINE	791+38.65	794+33.41	56.08	56.08	L	294.76	8
10' DASH 30' SKIP	791+38.66	798+88.03	32.08	40.19	L	749.37	19

NOTE: PAY ITEM 20049100 RAISED PAVEMENT MARKER REFLECTOR REPLACEMENT TO BE USED IN SAME LOCATIONS AS PAY ITEM X7830050 DURING PERMANENT PAVEMENT MARKING PLACEMENT. SEE EROSION, LANDSCAPE, AND PAVEMENT MARKING PLANS FOR FURTHER DETAIL.

**COMBINATION CURB AND GUTTER REMOVAL (CODE NUMBER 44000500)**

MEASURED FROM IL 59 ALIGNMENT

DRAWING #	BEGIN STATION	END STATION	L/R
SHEET 1 BOTTOM VIEW	777+12	777+50	R
	777+24	777+39	L
	778+22	778+44	L
	780+92	781+21	L
	781+00	781+21	R
	782+14	781+44	L
	782+01	782+31	R
	782+76	782+91	L
	783+40	783+60	R
SHEET 2	786+65	789+80	L
	786+65	789+80	L

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**













**REMOVAL SCHEDULE  
ILLINOIS ROUTE 59 OVER INTERSTATE 90**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	17
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				

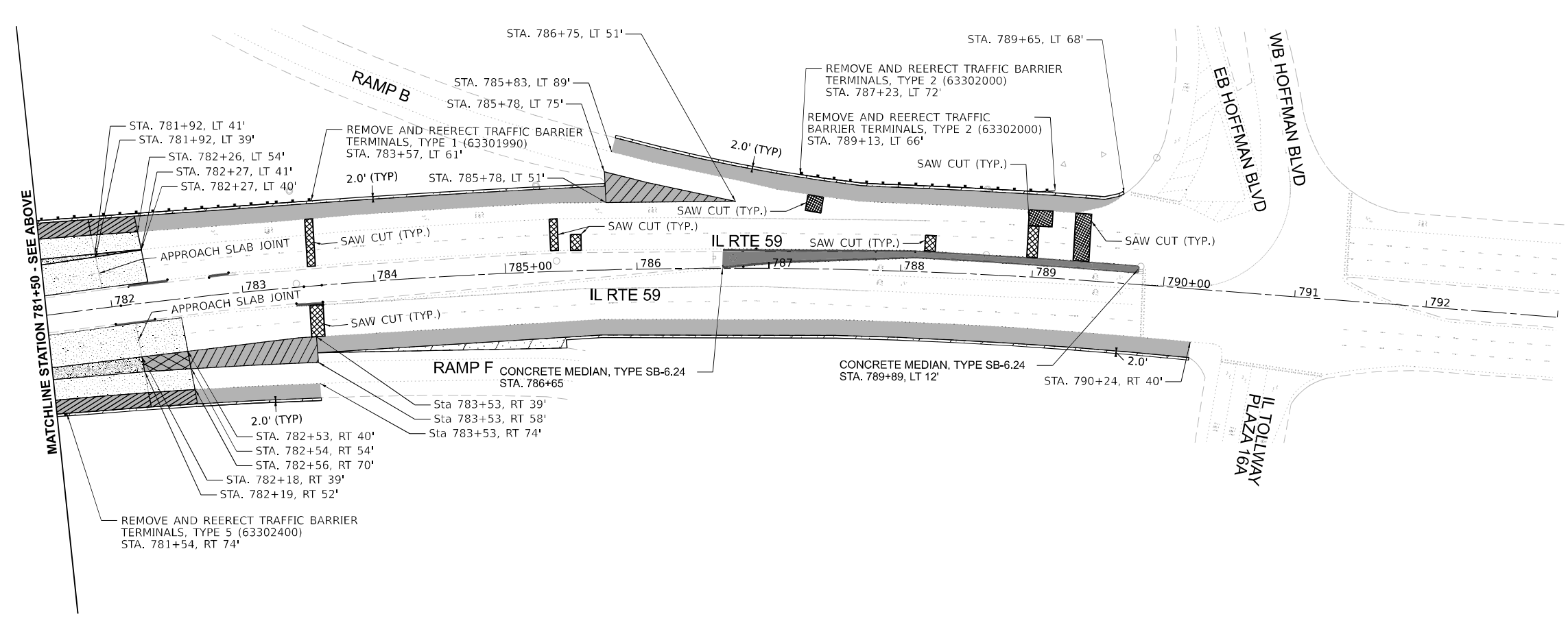
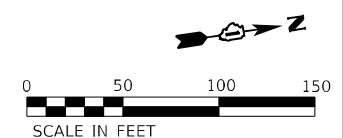
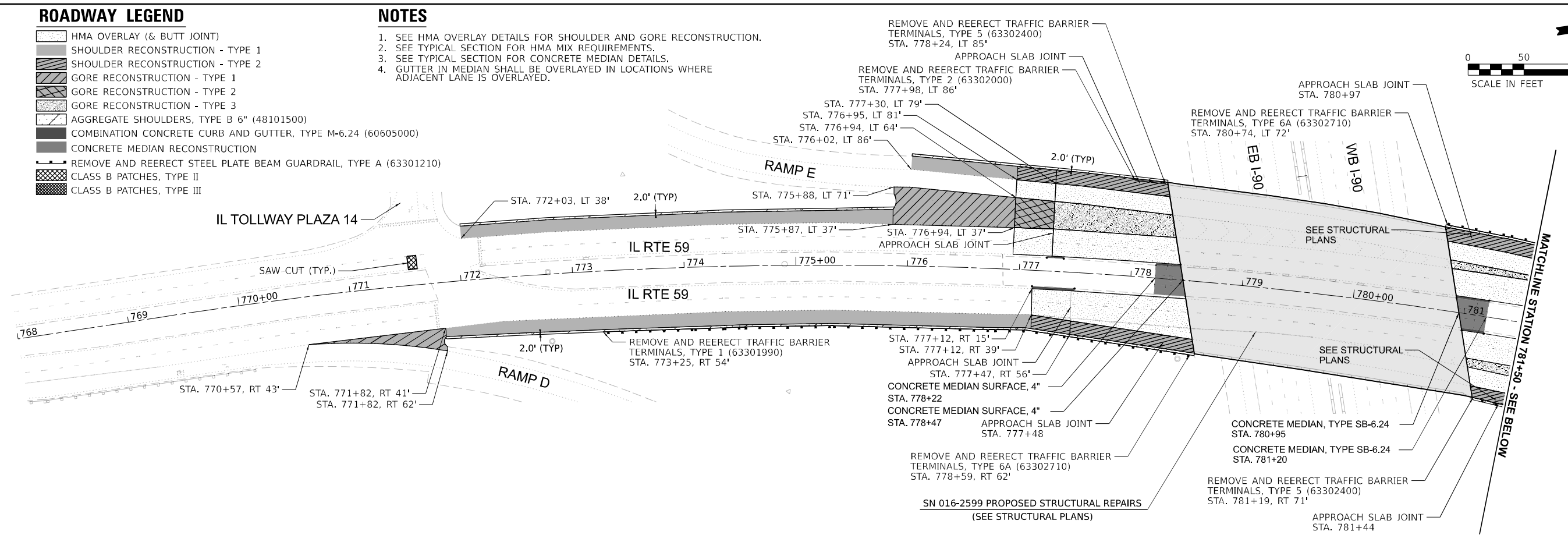
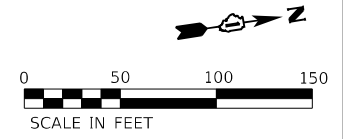
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PLOT SCALE = 0.16666633 "/in.	DRAWN - VV	REVISED -
PLOT DATE = 01/29/2024	CHECKED - AP	REVISED -
	DATE - 01/29/2024	REVISED -

**ROADWAY LEGEND**

-  HMA OVERLAY (& BUTT JOINT)
-  SHOULDER RECONSTRUCTION - TYPE 1
-  SHOULDER RECONSTRUCTION - TYPE 2
-  GORE RECONSTRUCTION - TYPE 1
-  GORE RECONSTRUCTION - TYPE 2
-  GORE RECONSTRUCTION - TYPE 3
-  AGGREGATE SHOULDERS, TYPE B 6" (48101500)
-  COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24 (60605000)
-  CONCRETE MEDIAN RECONSTRUCTION
-  REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A (63301210)
-  CLASS B PATCHES, TYPE II
-  CLASS B PATCHES, TYPE III

**NOTES**

1. SEE HMA OVERLAY DETAILS FOR SHOULDER AND GORE RECONSTRUCTION.
2. SEE TYPICAL SECTION FOR HMA MIX REQUIREMENTS.
3. SEE TYPICAL SECTION FOR CONCRETE MEDIAN DETAILS.
4. GUTTER IN MEDIAN SHALL BE OVERLAYED IN LOCATIONS WHERE ADJACENT LANE IS OVERLAYED.



MODEL: E:\CL\1160 - Plan 1 (Sheet)  
 FILE NAME: X:\500 Drawings\500 CADD Sheets\02212-Subproj-02-Roadway.dgn



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PLOT DATE	= 01/29/2024

DESIGNED	- VV
DRAWN	- VV
CHECKED	- AP
DATE	- 01/29/2024

REVISED	-
REVISED	-
REVISED	-
REVISED	-

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

**PROPOSED ROADWAY PLAN**  
**ILLINOIS ROUTE 59 OVER INTERSTATE 90**

SCALE: 1:50'      SHEET 1 OF 1 SHEETS      STA. 768+00 TO STA. 793+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	18
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				

COMBINATION CURB AND GUTTER (CODE NUMBER 60605000)			
MEASURED FROM IL 59 ALIGNMENT			
DRAWING #	BEGIN STA	END STA	L/R
SHEET 1 TOP VIEW	777+12	777+50	R
	777+24	777+39	L
	778+22	778+44	L
SHEET 1 BOTTOM VIEW	782+01	782+31	R
	782+14	782+44	L
	782+76	782+91	L
	783+40	783+60	R

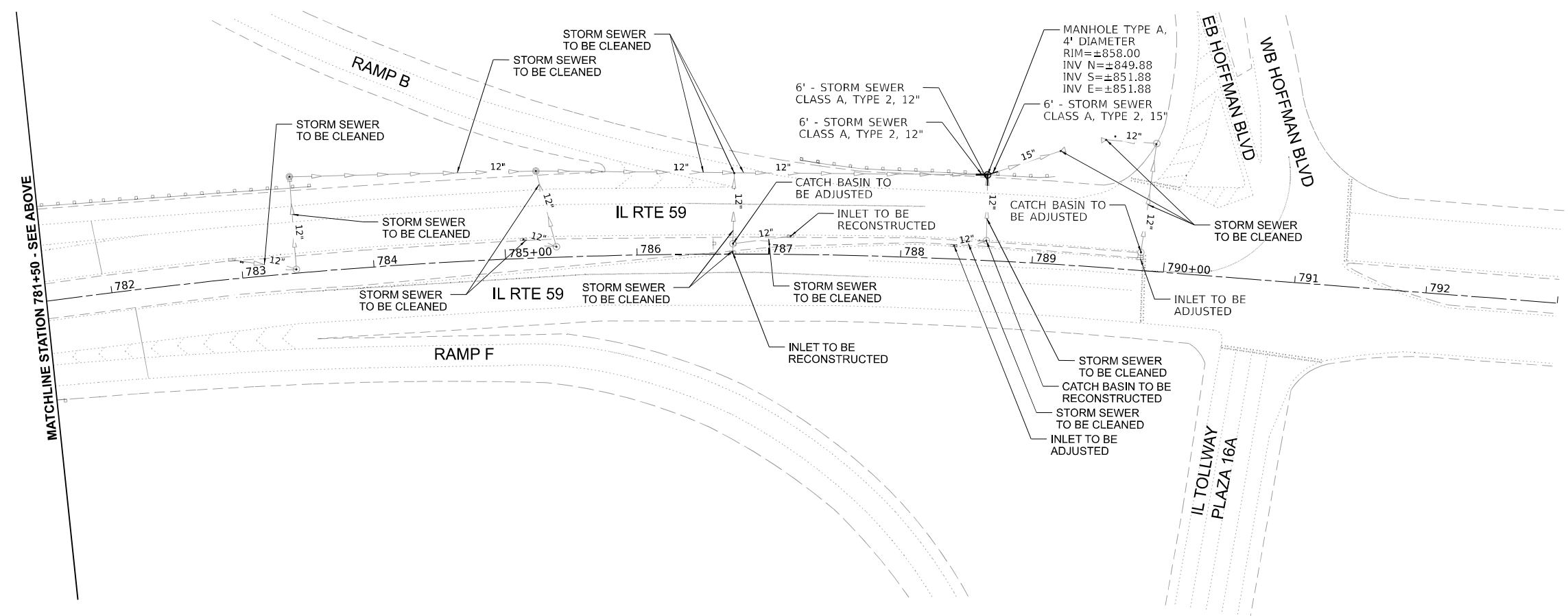
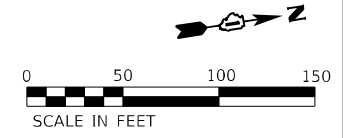
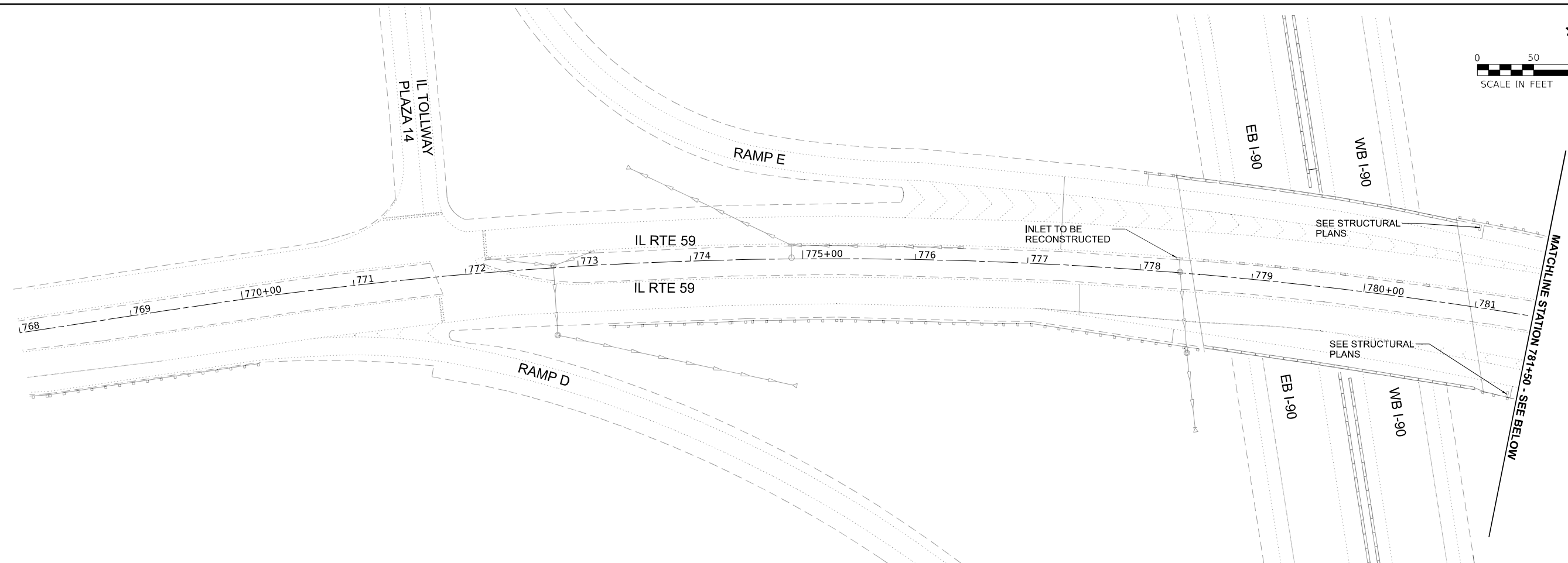
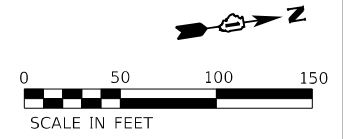
CLASS B PATCHES, TYPE II, 10 1/2 INCH					
MEASURED FROM IL 59 ALIGNMENT					
DRAWING #	STATION	DIRECTION	LANE	WIDTH	LENGTH
SHEET 1 TOP VIEW	771+50	SB	1	12	8
	783+50	NB	1	12	10
SHEET 1 BOTTOM VIEW	783+50	NB	2	12	10
	783+50	SB	1	12	6
	783+50	SB	2	12	6
	783+50	SB	3	12	6
	785+35	SB	1	12	6
	785+35	SB	2	12	6
	785+50	SB	1	12	8
	788+15	SB	1	12	8
	788+95	SB	1	12	8
	788+95	SB	2	12	8

SHOULDER RUMBLE STRIPS, 16 INCH (CODE NUMBER 64200116)			
MEASURED FROM IL 59 ALIGNMENT			
LOCATION	BEGIN STA	END STA	LENGTH (FOOT)
NB East Shoulder	771+82	777+12	530
SB West Shoulder	772+03	775+88	385
SB West Shoulder	776+02	778+02	200
SB West Shoulder	776+02	776+95	93
NB East Shoulder	781+53	783+53	200
SB West Shoulder	782+26	785+78	352
NB East Shoulder	783+53	790+24	671
SB West Shoulder	787+52	789+39	187

CLASS B PATCHES, TYPE III, 10 1/2 INCH					
MEASURED FROM IL 59 ALIGNMENT					
DRAWING #	STATION	DIRECTION	LANE	WIDTH	LENGTH
SHEET 1 BOTTOM VIEW	786+95	SB	3	12	12
	788+95	SB	3	12	18
	789+45	SB	1	12	12
	789+45	SB	2	12	12
	789+45	SB	3	12	12

MODEL: D:\projects\Detail\Sheet1  
 FILE NAME: X:\580 Drawings\580\_CADD\_Sheets\02\0212\shp\rop-roadway.dgn

 311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606 312-454-0500 www.bowman.com	USER NAME = vvesco	DESIGNED - VV	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY SCHEDULE</b> <b>ILLINOIS ROUTE 59 OVER INTERSTATE 90</b>				F.A.P. RTE. 0338	SECTION 2021-075-BDR&BJR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 19
	PLOT SCALE = 0.166666' / in.	CHECKED - AP	REVISED -		SCALE: 1:50'	SHEET 1	OF 1	SHEETS	STA.	TO STA.	CONTRACT NO. 62P12		
	PLOT DATE = 01/29/2024	DATE - 01/29/2024	REVISED -		Long Section Number				ILLINOIS FED. AID PROJECT				



MODEL: E:\CL\160 - Plan 1 (Sheet) FILE NAME: P:\00058 - IDOT\040058-01-002 (ENGL) - FTB-195-016 Phase II Var (Var)Engineering\160\_18 - IL\_59 over I90\500 Drawings\502\_CADD\_Sheets\015212-drain.dgn



USER NAME = vvesco	DESIGNED - VV	REVISED -
DRAWN - VV	REVISIONS -	
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PLOT DATE = 01/29/2024	DATE - 01/29/2024	REVISED -

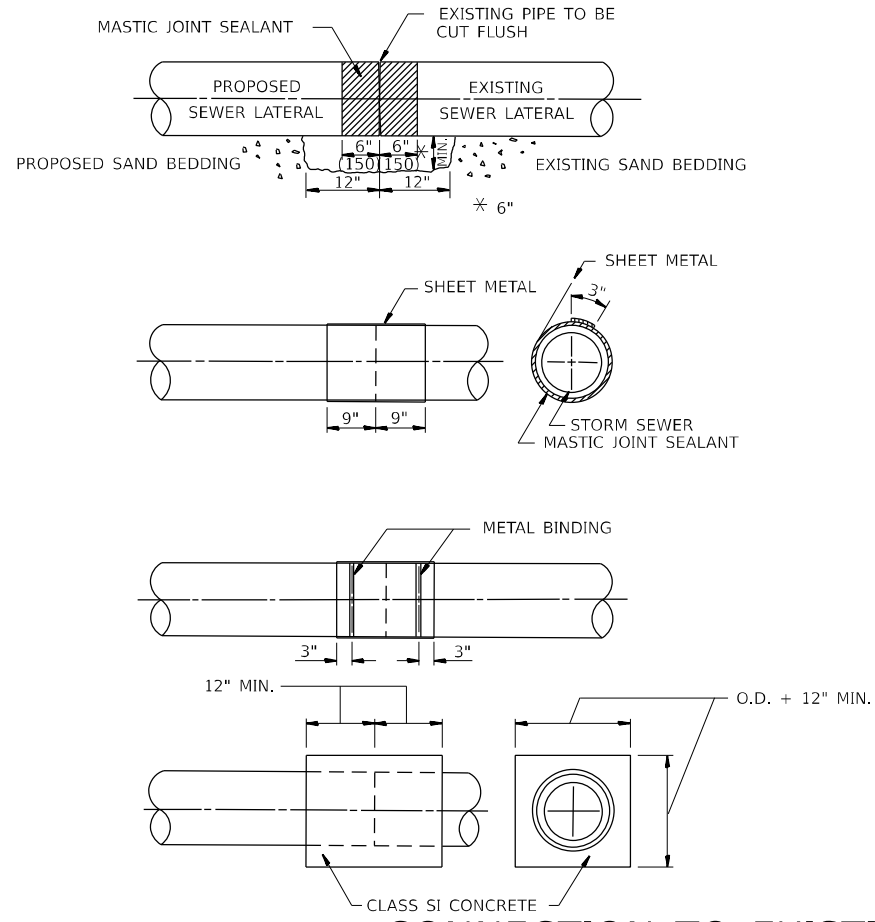
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PROPOSED DRAINAGE PLAN**  
**ILLINOIS ROUTE 59 OVER INTERSTATE 90**

SCALE: 1:50'    SHEET 1 OF 1 SHEETS    STA. 768+00 TO STA. 793+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	20
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				

MODEL: Drainage Detail (Sheet) (Sheet) | 311 S. Wacker Drive, Suite 1950 | Chicago, Illinois 60606 | 312-454-0500 | www.bowman.com



**CONNECTION TO EXISTING SEWER**

**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" OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" LONG.
- WRAP THE SHEET METAL AROUND THE PIPES, 9" ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 3" 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 SEEPS OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- PLACE CLASS SI CONCRETE AROUND THE JOINT.

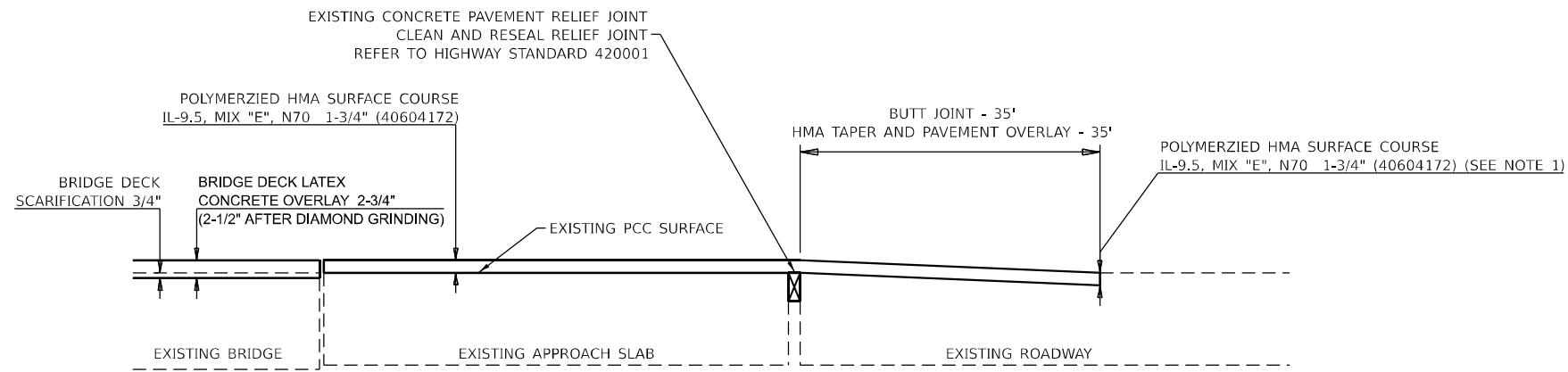


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DRAWN - VV	REVISIONS -	
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PLOT DATE = 01/29/2024	DATE - 01/29/2024	REVISED -

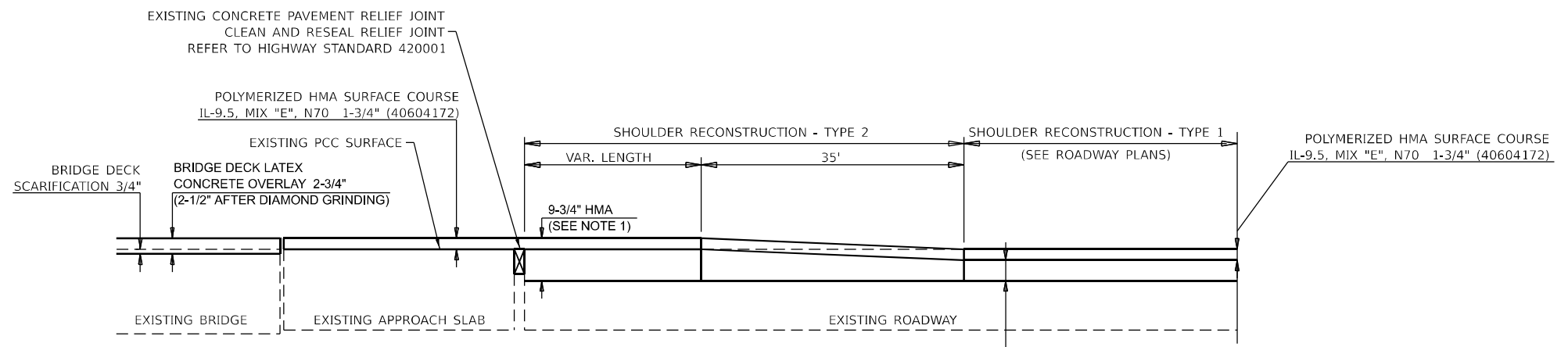
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

DRAINAGE DETAIL			
ILLINOIS ROUTE 59 OVER INTERSTATE 90			
SCALE: 1:50'	SHEET 1	OF 1 SHEETS	STA. 768+00 TO STA. 793+00

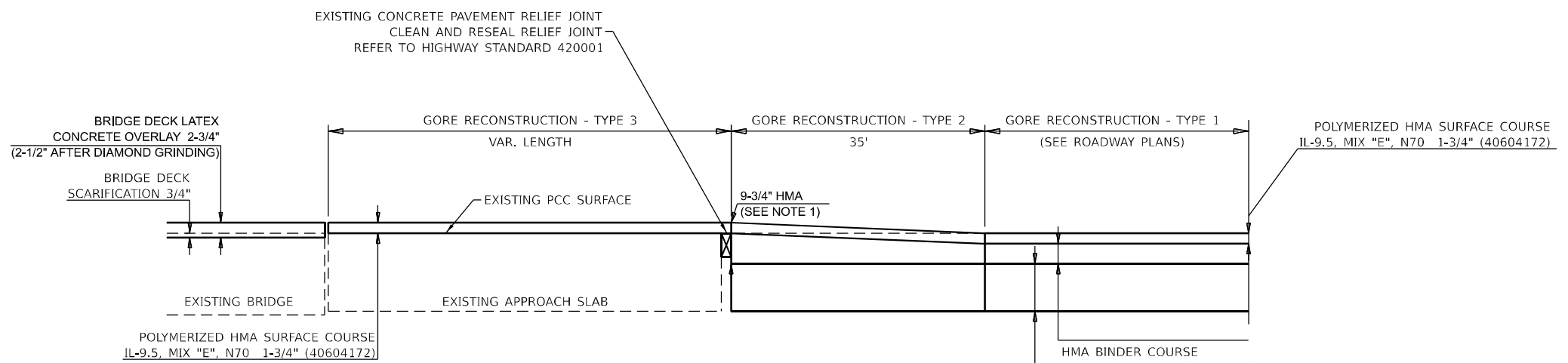
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	21
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				



**HMA OVERLAY AND BUTT JOINT DETAIL**  
SEE ROADWAY AND STRUCTURAL REPAIR PLANS FOR  
OVERLAY DETAIL LIMITS AND APPROACH SLAB REPAIRS LOCATIONS



**SHOULDER RECONSTRUCTION DETAIL**  
SEE ROADWAY AND STRUCTURAL REPAIR PLANS FOR  
OVERLAY DETAIL LIMITS AND APPROACH SLAB REPAIRS LOCATIONS



**GORE RECONSTRUCTION DETAIL**  
SEE ROADWAY AND STRUCTURAL REPAIR PLANS FOR  
OVERLAY DETAIL LIMITS AND APPROACH SLAB REPAIRS LOCATIONS

**NOTES**

- 1. SEE HMA REQUIREMENTS TABLE FOR HMA MIX AND DEPTH.
- 2. SEE STRUCTURAL PLANS FOR DETAILS RELATED TO BRIDGE DECK SCARIFICATION AND BRIDGE DECK LATEX CONCRETE OVERLAY.

MODEL: D:\mkt\151\151.dwg  
 FILE NAME: P:\CADD\62P12\151-HMAOverlayDetails.dwg  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-454-0500  
 www.bowman.com



USER NAME = vvesco	DESIGNED - VV	REVISED -
PLOT SCALE = 0.16666633 1/ in.	DRAWN - VV	REVISED -
PLOT DATE = 01/29/2024	CHECKED - AP	REVISED -
	DATE - 01/29/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HMA OVERLAY AND BUTT JOINT DETAILS  
ILLINOIS ROUTE 59 OVER INTERSTATE 90**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	22
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				

**STAGING NOTES**

CONSTRUCTION WORK ZONE SPEED LIMIT = 40 M.P.H.

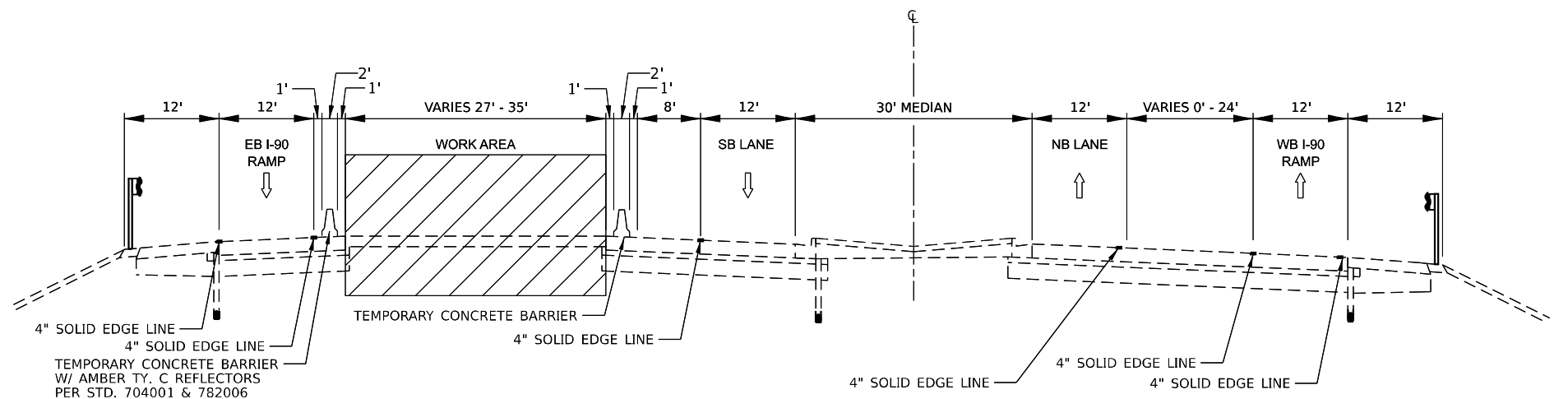
TEMPORARY TRAFFIC SIGNAL TIMING MAY BE NECESSARY AT THE FOLLOWING INTERSECTIONS AS DIRECTED BY THE ENGINEER:

- HOFFMAN BLVD/IL TOLLWAY PLAZA 16A/IL-59
- IL TOLLWAY PLAZA 14/IL-59
- POPLAR PRAIRIE STONE CROSSING ENTRANCE/IL-59
- IL-72/IL-59
- SHOE FACTORY RD/IL-59

THIS WILL BE BASED ON TRAFFIC CONDITIONS THROUGHOUT THE STAGES.

CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL TRAFFIC STAGE CHANGES ON EACH APPROACH OF THE AFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGN MESSAGES SHALL BE REVISED TWO WEEKS THEREAFTER WITH MESSAGES WARNING TRAFFIC OF POTENTIAL TRAFFIC DELAYS, QUEUING, AND/OR WITH MESSAGES NOTIFYING TRAFFIC TO USE ALTERNATE ROUTES. THE SIGN LOCATIONS AND MESSAGES SHALL BE DETERMINED BY THE ENGINEER.

TYPE C REFLECTORS SHALL BE CONSIDERED INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER



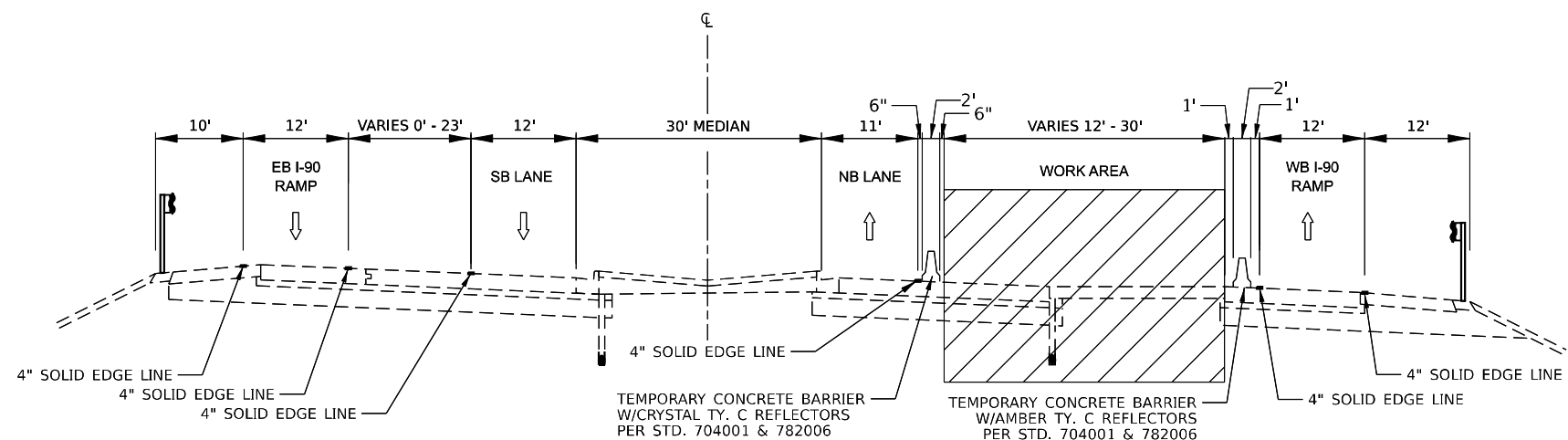
**STAGE 1 TYPICAL SECTION - IL. RTE. 59**

BRIDGE OVER INTERSTATE 90 (I-90)  
STA 776+40 TO 780+00

- STAGE 1 - IL ROUTE 59 GORE AND SHOULDER RECONSTRUCTION**
- 1.1 DROP RIGHT THRU LANES IN BOTH NORTHBOUND AND SOUTHBOUND DIRECTIONS.
  - 1.2 PROVIDE 2 – 12’ LANES IN EACH DIRECTION.
  - 1.3 PROPOSED GORE AND SHOULDER RECONSTRUCTION AS SHOWN ON PLANS FOR STAGE 1 OF MOT SCHEME.
  - 1.4 OMIT ANY WORK INVOLVING BRIDGE DECK OR HMA OVERLAY/BUTT JOINT IN THIS STAGE.

**STAGE 2 - BRIDGE REPAIRS AT OUTSIDE LANES**

- 2.1 SET UP OUTSIDE LANE DROP AND LANE SHIFT AS SHOWN ON PLANS FOR STAGE 2 ON MOT SCHEME.
- 2.2 PROVIDE 1 – 12’ LANE IN EACH DIRECTION.
- 2.3 INSTALL PROTECTIVE SHIELD.
- 2.4 REMOVE AND RESET GUARDRAIL.
- 2.5 PROPOSED OUTSIDE SHOULDER RECONSTRUCTION AS SHOWN ON PLANS TO BE UTILIZED FOR STAGE 3 OF MOT SCHEME.
- 2.6 SEE STRUCTURAL PLANS FOR DETAILED CONSTRUCTION PLANNED FOR THIS STAGE.



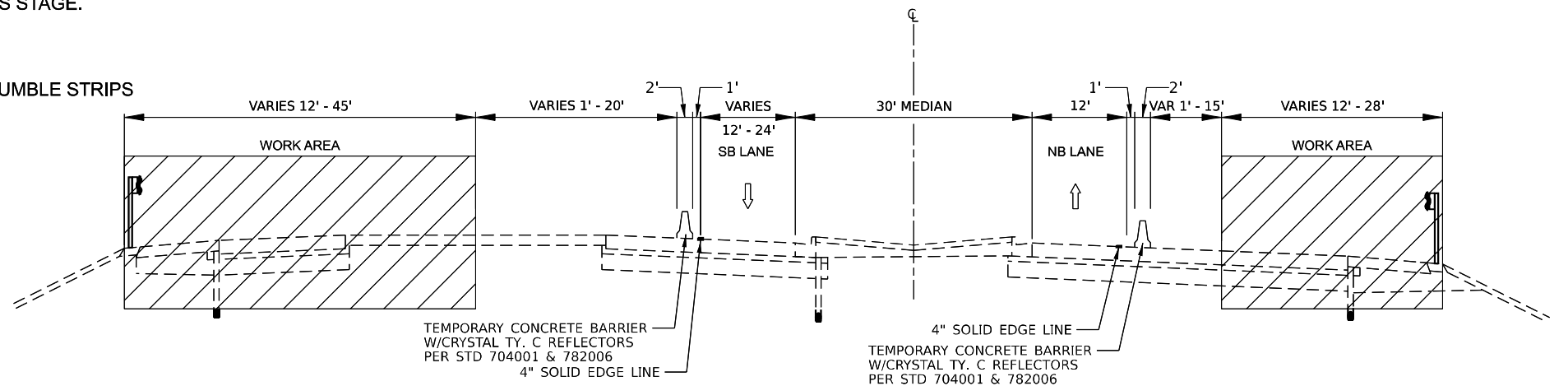
**STAGE 1 TYPICAL SECTION - IL. RTE. 59**

BRIDGE OVER INTERSTATE 90 (I-90)  
STA 780+00 TO 785+00

- STAGE 3 - BRIDGE, MEDIAN, AND CURB AND GUTTER REPAIRS AT INSIDE LANES**
- 3.1 SET UP INSIDE LANE DROP AND LANE SHIFT AS SHOWN ON PLANS FOR STAGE 3 OF MOT SCHEME.
  - 3.2 PROVIDE 1 – 12’ LANE IN EACH DIRECTION.
  - 3.3 PROPOSED MEDIAN AND CURB AND GUTTER RECONSTRUCTION AS SHOWN ON PLANS FOR STAGE 3 OF MOT SCHEME.
  - 3.4 SEE STRUCTURAL PLANS FOR DETAILED CONSTRUCTION PLANNED FOR THIS STAGE.

**FINAL STAGE**

- PLACE PROPOSED PAVEMENT MARKINGS & REFLECTORS AND SHOULDER RUMBLE STRIPS PER IDOT HIGHWAY STANDARDS 642001 AND 701426.



**STAGE 2 TYPICAL SECTION - IL. RTE. 59**

BRIDGE OVER INTERSTATE 90 (I-90)  
STA 776+94 TO 780+00

MODEL: SHEET (Sheet 1)  
FILE NAME: P:\06085 - IDOT\040058-01-202 (ENG) - FTB-195-016 Phase II Vot\Engr\Drawings\18\_IL-59 over I90\500 Drawings\18\_IL-59 over I90\500 Typical Sections.dgn



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PLOT SCALE	= 0.1667" / in.
PLOT DATE	= 01/29/2024

DESIGNED	- VV
DRAWN	- VV
CHECKED	- AP
DATE	- 01/29/2024

REVISED	-
REVISED	-
REVISED	-
REVISED	-

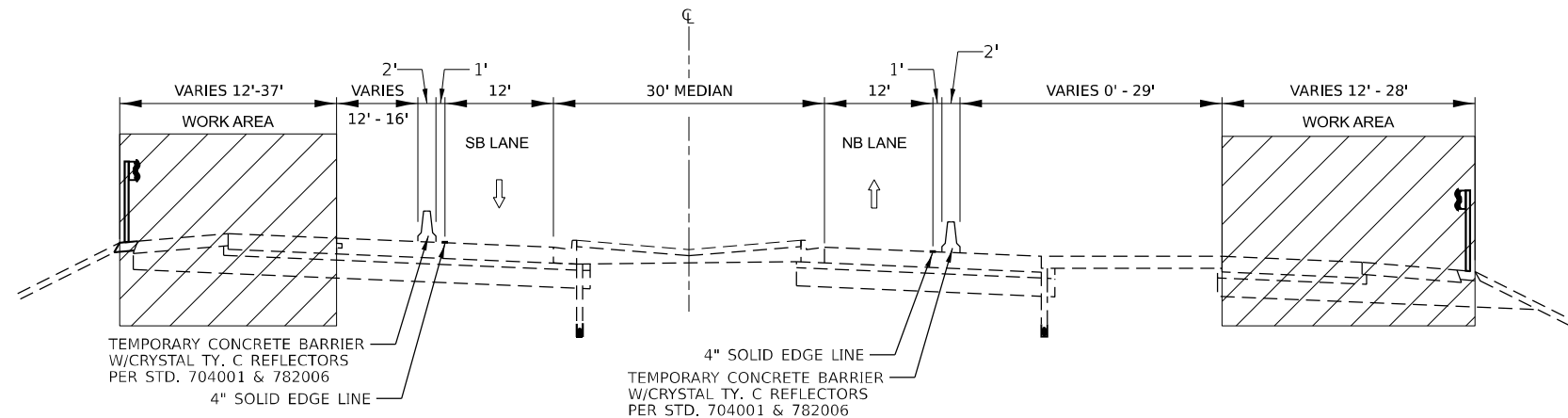
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC – PROPOSED TYPICAL SECTIONS  
ILLINOIS ROUTE 59 OVER INTERSTATE 90**

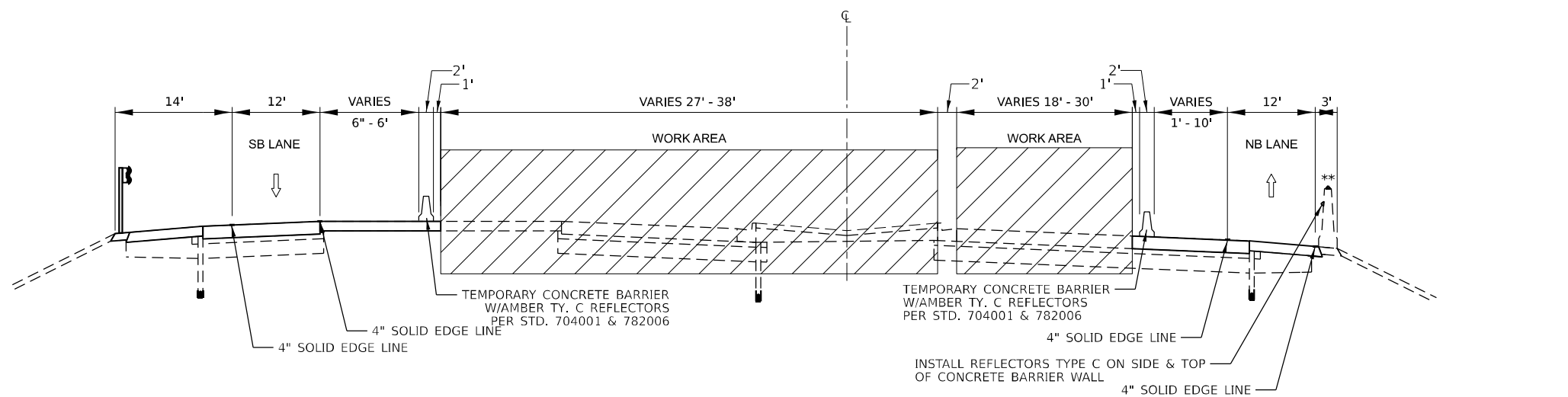
SCALE: 1:20 SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				

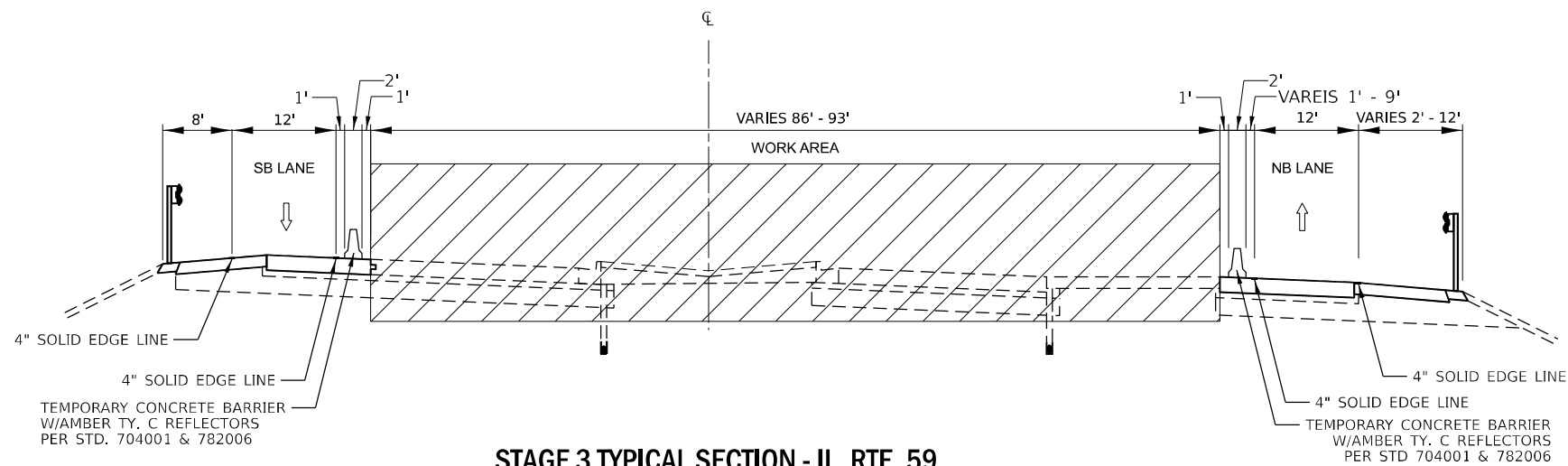
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**STAGE 2 TYPICAL SECTION - IL. RTE. 59**  
 BRIDGE OVER INTERSTATE 90 (I-90)  
 STA 780+00 TO 785+00



**STAGE 3 TYPICAL SECTION - IL. RTE. 59**  
 BRIDGE OVER INTERSTATE 90 (I-90)  
 STA 776+94 TO 780+00  
 \*\* STA 778+62 TO STA 781+19



**STAGE 3 TYPICAL SECTION - IL. RTE. 59**  
 BRIDGE OVER INTERSTATE 90 (I-90)  
 STA 780+00 TO 785+00



USER NAME = vvesco	DESIGNED - VV	REVISED -
DRAWN - VV	REVISIONS -	
PLOT SCALE = 0.1667" / in.	CHECKED - AP	REVISIONS -
PLOT DATE = 01/29/2024	DATE - 01/29/2024	REVISIONS -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**MAINTENANCE OF TRAFFIC – PROPOSED TYPICAL SECTIONS**  
**ILLINOIS ROUTE 59 OVER INTERSTATE 90**

SCALE: 1:20 SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	24
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				



① R3-5bP LEFT LANE 30"X12"

② W20-5(O)-48 RIGHT LANE CLOSED AHEAD

③ W5-4-48 RAMP NARROWS AHEAD

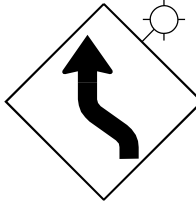
④ W20-1103(O)-48 ROAD CONSTRUCTION AHEAD

⑤ M6-1(R) → 21"X15"

⑥ W4-2R(O)-48

⑦ M4-15-2412 TOLL

⑧ R3-5eP CENTER LANE 30"X12"

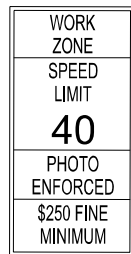
⑨ W1-4L(O)-48 W13-1(O)-2424  35 MPH

⑩ M6-1(L) ← 21"X15"

⑪ M3-3 SOUTH 24"X12"

⑫ M3-4 WEST 24"X12"

⑬ R4-7a-2430 KEEP RIGHT →

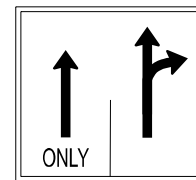
⑭ W21-1115(O)-3618 R2-1-3648 R10-1108P-3618 R2-1106P-3618  WORK ZONE SPEED LIMIT 40 PHOTO ENFORCED \$250 FINE MINIMUM

⑮ M1-5 ILLINOIS 59 24"X24" 48"X48"


⑯ M1-1 INTERSTATE 90

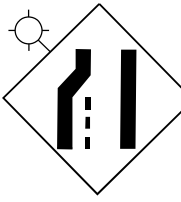
⑰ W12-1103(O)-48 MAX WIDTH 10'-0" 1 1/2 MILES AHEAD

⑱ W12-1103(O)-48 MAX WIDTH 11'-6" 1 1/4 MILES AHEAD

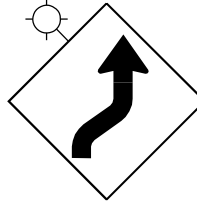
⑲ LANE CONTROL - SPECIAL  ONLY 52"X30"

⑳ D4-1102(G)-3648 EXIT OPEN AHEAD

㉑ E5-1 EXIT  42"X36"

㉒ W4-2L(O)-48 

㉓ W20-5-48 LEFT LANE CLOSED AHEAD

㉔ W1-4R(O)-48 W13-1(O)-2424  35 MPH

㉕ G20-1103-6036 END WORK ZONE SPEED LIMIT

㉖ R3-7R RIGHT LANE MUST TURN RIGHT 36"X36"

㉗ M3-4 EAST 24"X12"


㉘ M6-4 ↔ 21"X15"

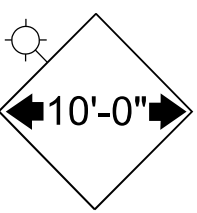
㉙ R3-33 RIGHT LANE MUST EXIT 78"X36"

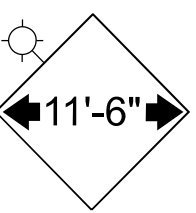
㉚ W21-1106L(O)-48 2 LEFT LANES CLOSED AHEAD

㉛ M3-1 NORTH 24"X12"

㉜ R3-5fP RIGHT LANE 30"X12"

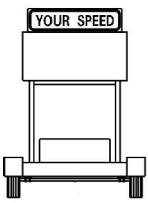
㉝ M6-2(R)  21"X15"

㉞ W12-1102-48  10'-0"

㉟ W12-1102-48  11'-6"

㊱ R3-1100R RIGHT TURN LANE 24"X24"

㊲ W21-1106R(O)-48 2 RIGHT LANES CLOSED AHEAD

㊳  YOUR SPEED

NOTE: TRAILER MOUNTED SPEED DISPLAY SIGNS SHALL BE INSTALLED AT 100' MAX AFTER INITIAL WORK ZONE SPEED LIMIT SIGNS ON IL 59.

㊴ W1-6L(O)-6030 ← 60"X30"

NOTE: WHEN SHOWN IN PLANS, TO BE MOUNTED ABOVE TYPE II BARICADE.

MODEL: Unfiled (Sheet) FILE NAME: P:\03089 - I\DOT\040058-01-2022 (ENGL) - FTB-195-016 Phase II Var (Var)Engineering\W0\_18-1L\_59 over I90\500 Drawings\502\_CADD\_Sheets\01\_S2P12-24-24MOT\_signs.dgn



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DRAWN - VV	REVISIONS -	
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PLOT DATE = 03/11/2024	DATE - 03/11/2024	REVISED -

















STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

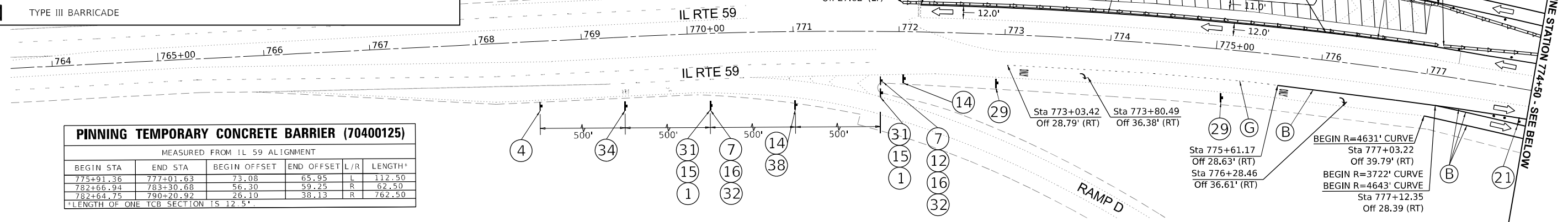
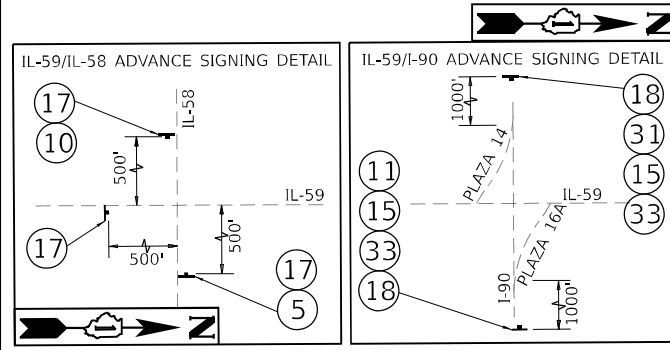
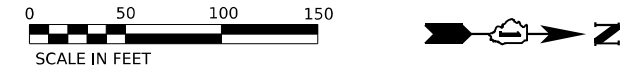
MAINTENANCE OF TRAFFIC SIGNS  
ILLINOIS ROUTE 59 OVER INTERSTATE 90

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	25
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				

**MOT LEGEND AND SYMBOLS**

-  WORK AREA
-  COMPLETED WORK
-  SOLID WHITE EDGE LINE, 4" (70307120)
-  SOLID WHITE EDGE LINE, 6" (70306130)
-  SOLID YELLOW EDGE LINE, 4" (70307120)
-  WHITE DOTTED LINE, LINE, 6" (2' DASH, 6' SKIP) (70306130)
-  WHITE SKIP DASH LINE, 4" (10' DASH, 30' SKIP) (70307120)
-  WHITE CHEVRONS, 12" (70307160)
-  WHITE DOTTED LINE, 6" (3' DASH, 9' SKIP) (70306130)
-  TEMPORARY CONCRETE BARRIER & ATTENUATOR (TEST LEVEL 3) (70400100) & (70600260)
-  TEMPORARY CONCRETE BARRIER & ATTENUATOR (WIDE) (70400100) & (70600270)
-  ARROW BOARD
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT, 50' C-C
-  BARRIER WALL REFLECTOR (TYPE C), 25' C-C (78200011)
-  DRUMS, 50' C-C TANGENTS, 25' C-C TAPERS
-  TYPE III BARRICADE

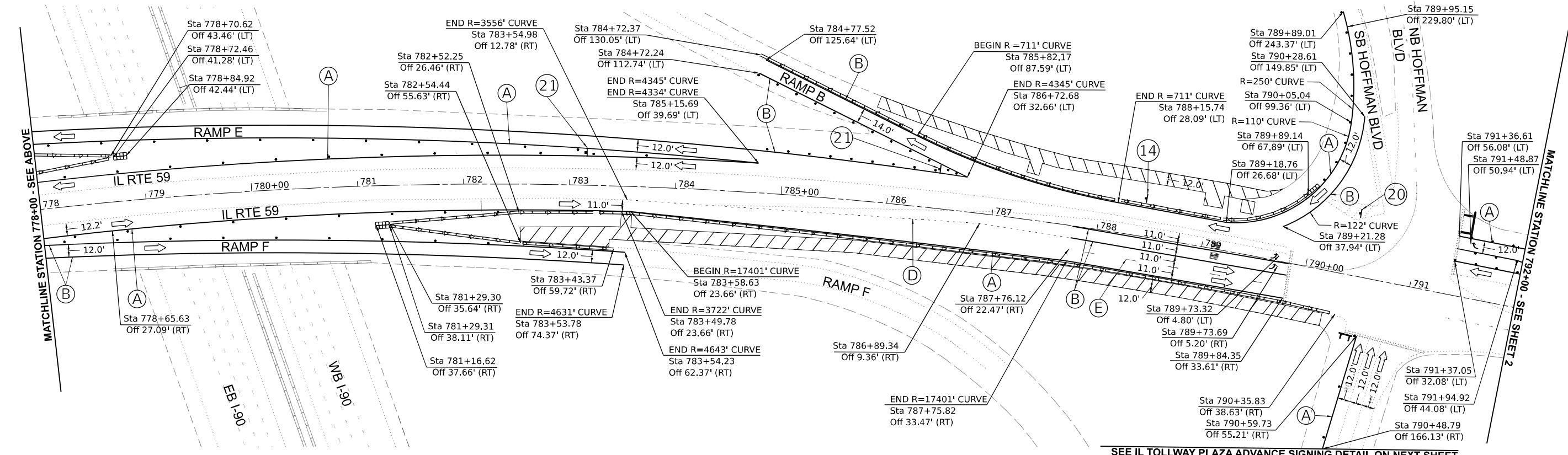


**PINNING TEMPORARY CONCRETE BARRIER (70400125)**

MEASURED FROM IL 59 ALIGNMENT

BEGIN STA	END STA	BEGIN OFFSET	END OFFSET	L/R	LENGTH'
775+91.36	777+01.63	73.08	65.95	L	112.50
782+66.94	783+30.68	56.30	59.25	R	62.50
782+64.75	790+20.92	26.10	38.13	R	762.50

\*LENGTH OF ONE TCB SECTION IS 12.5'



SEE IL TOLLWAY PLAZA ADVANCE SIGNING DETAIL ON NEXT SHEET

MODEL: Stage 1 (SHEET 1)  
 FILE NAME: P:\040055 - DOT\040055-01-002 (ENGL) - FTB-195-016 Phase II Var Work\Engineering\W0\_18\_IL\_59 over I90\500 Drawings\302\_CADD\_Sheets\016912-IL-59-Stage 1.dgn



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PLOT SCALE = 0.166666' / in.	DRAWN - VV	REVISED -
PLOT DATE = 03/11/2024	CHECKED - AP	REVISED -
	DATE - 03/11/2024	REVISED -

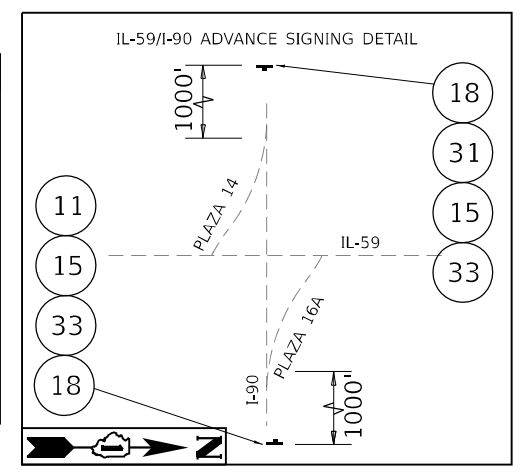
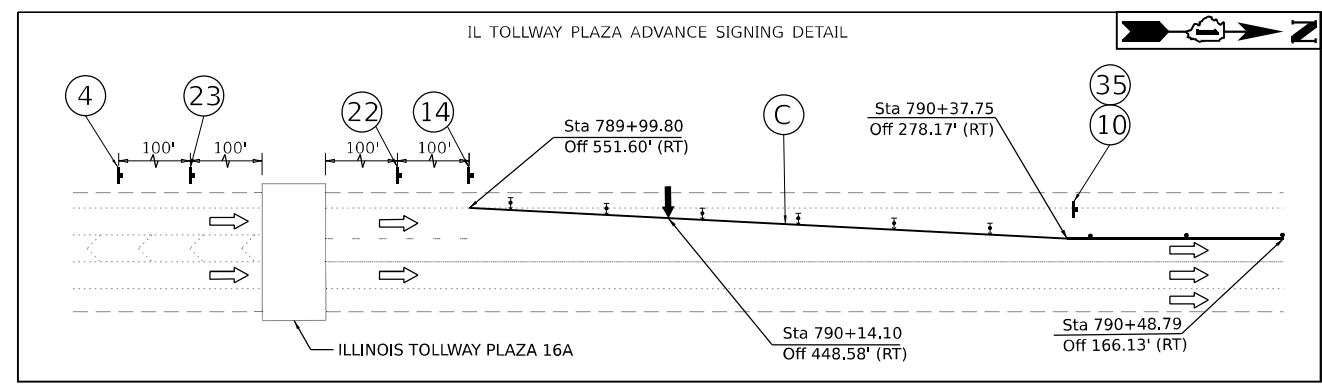
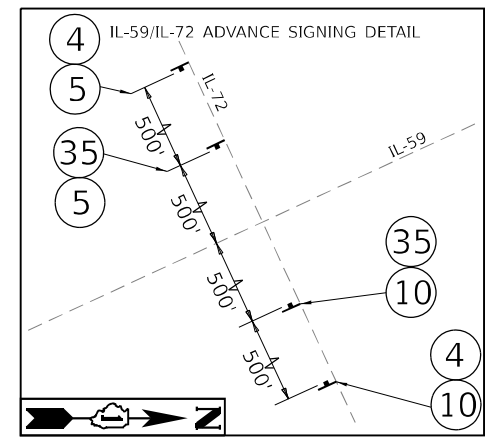
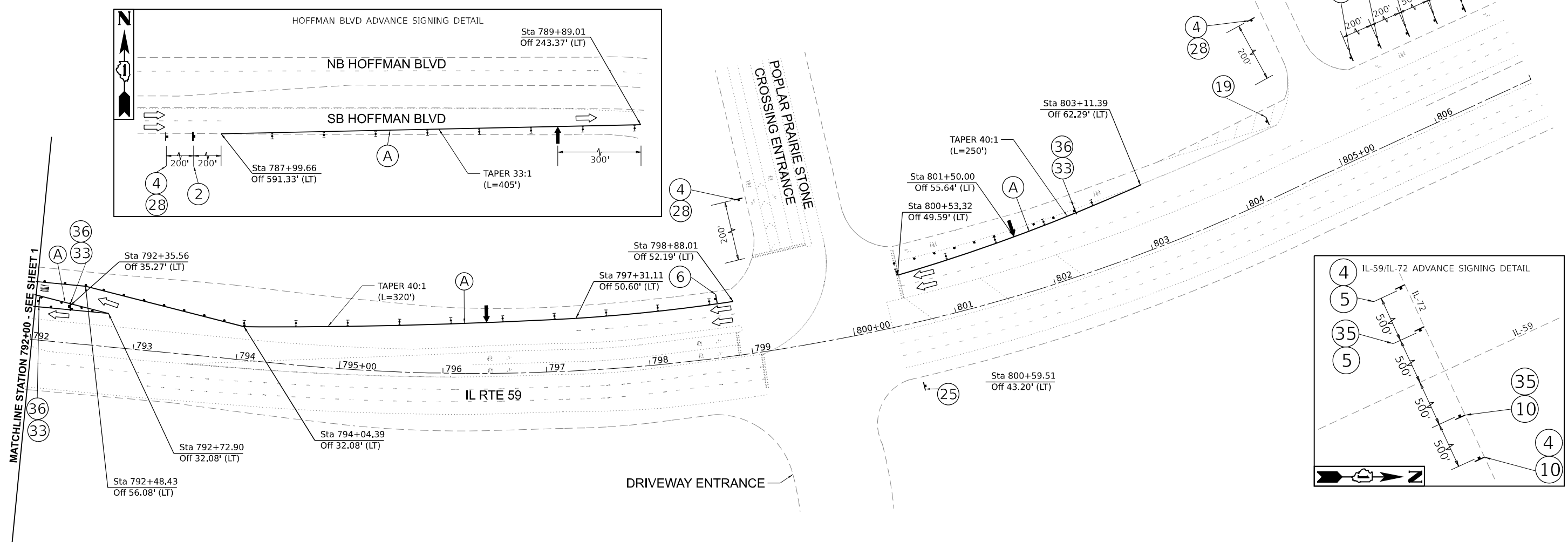
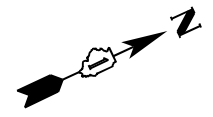
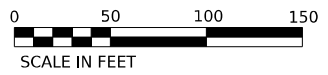
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE 1  
ILLINOIS ROUTE 59 OVER INTERSTATE 90**

SCALE: 1:50    SHEET 1 OF 7 SHEETS    STA. 763+60.88 TO STA. 787+50

F.A.P. RTE. 0338	SECTION 2021-075-BDR&B/R	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 26
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P12	

TEMPORARY CONCRETE BARRIER ITEM QUANTITIES - STAGE 1			
ITEM NAME	ITEM CODE #	STAGE SUBTOTAL	UNIT
TEMPORARY CONCRETE BARRIER	70400100	2650	FOOT
RELOCATE TEMPORARY CONCRETE BARRIER	70400200	0	FOOT
IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	70600260	1	EACH
IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	70600270	2	EACH
IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	70600327	0	EACH
IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	70600332	0	EACH



MOT LEGEND AND SYMBOLS	
	WORK AREA
	COMPLETED WORK
	SOLID WHITE EDGE LINE, 4" (70307120)
	SOLID WHITE EDGE LINE, 6" (70306130)
	SOLID YELLOW EDGE LINE, 4" (70307120)
	WHITE DOTTED LINE, LINE, 6" (2' DASH, 6' SKIP) (70306130)
	WHITE SKIP DASH LINE, 4" (10' DASH, 30' SKIP) (70307120)
	WHITE CHEVRONS, 12" (70307160)
	WHITE DOTTED LINE, 6" (3' DASH, 9' SKIP) (70306130)
	TEMPORARY CONCRETE BARRIER & ATTENUATOR (TEST LEVEL 3) (70400100) & (70600260)
	TEMPORARY CONCRETE BARRIER & ATTENUATOR (WIDE) (70400100) & (70600270)
	ARROW BOARD
	DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT, 50' C-C
	BARRIER WALL REFLECTOR (TYPE C), 25' C-C (78200011)
	DRUMS, 50' C-C TANGENTS, 25' C-C TAPERS
	TYPE III BARRICADE

MODEL: Stage 1 (SHEET 2)  
 FILE NAME: P:\030055 - IDOT\040058-01\2022 (ENGL) - FTB-195-016 Phase II Var Work\Engineering\WO\_18 - IL 59 over I90\500 Drawings\502\_CADD\_Sheets\016912-IL-59-OT-Stage 1.dgn



USER NAME = vvesco	DESIGNED - VV	REVISED -
PLOT SCALE = 0.16666633 1/16"	DRAWN - VV	REVISED -
PLOT DATE = 03/11/2024	CHECKED - AP	REVISED -
	DATE - 03/11/2024	REVISED -

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

**MAINTENANCE OF TRAFFIC - STAGE 1**  
**ILLINOIS ROUTE 59 OVER INTERSTATE 90**

SCALE: 1:50    SHEET 2 OF 7 SHEETS    STA. 787+50 TO STA. 801+00

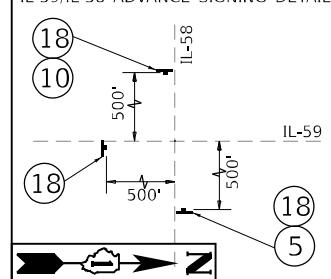
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&JR	COOK	86	27
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				

0 50 100 150

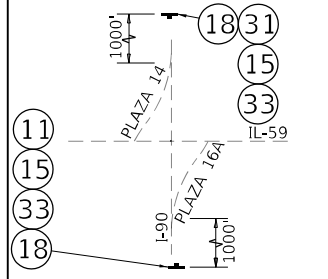
SCALE IN FEET



IL-59/IL-58 ADVANCE SIGNING DETAIL



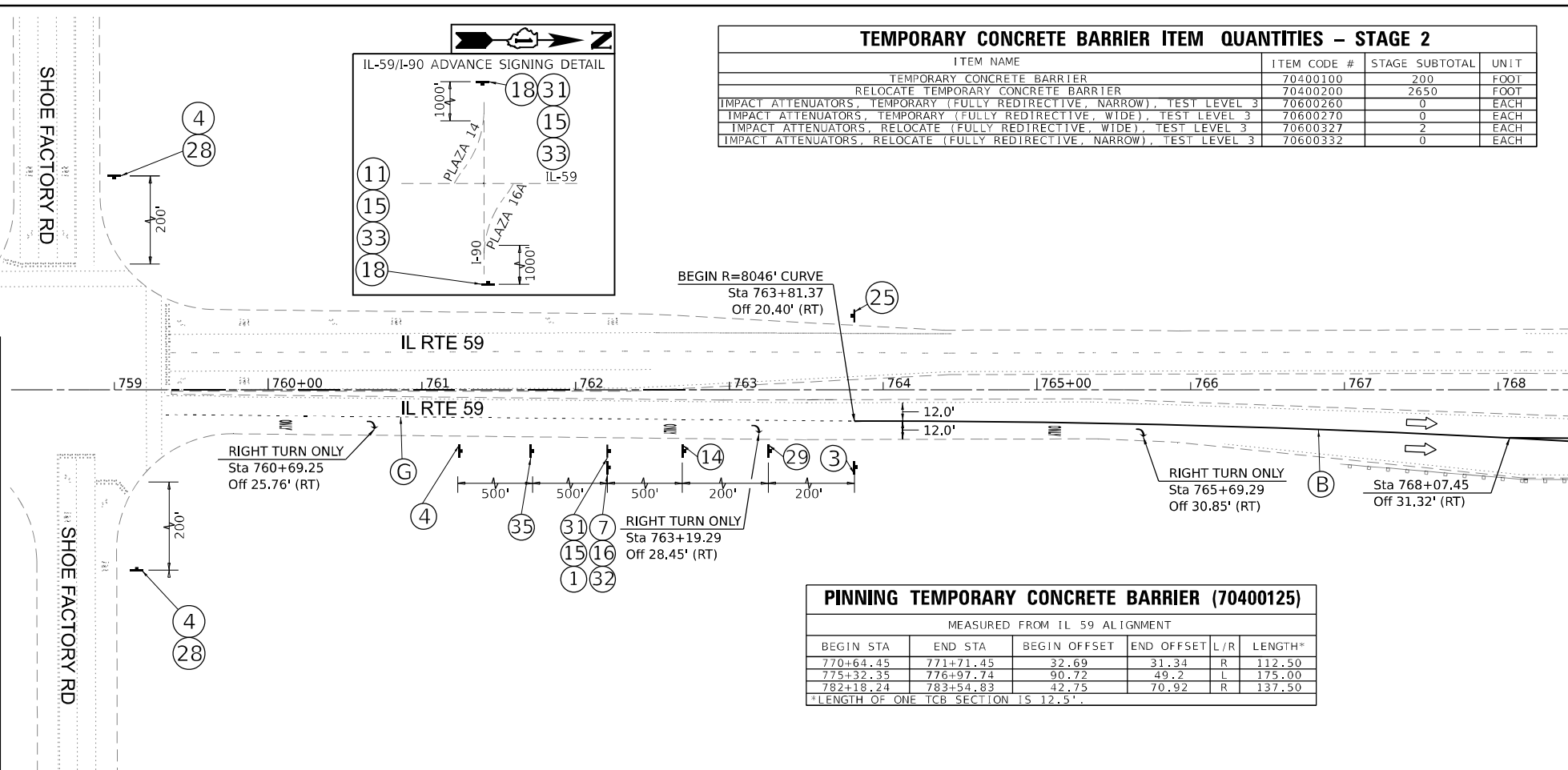
IL-59/IL-90 ADVANCE SIGNING DETAIL



TEMPORARY CONCRETE BARRIER ITEM QUANTITIES - STAGE 2			
ITEM NAME	ITEM CODE #	STAGE SUBTOTAL	UNIT
TEMPORARY CONCRETE BARRIER	70400100	200	FOOT
RELOCATE TEMPORARY CONCRETE BARRIER	70400200	2650	FOOT
IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	70600260	0	EACH
IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	70600270	0	EACH
IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	70600327	2	EACH
IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	70600332	0	EACH

**MOT LEGEND AND SYMBOLS**

- WORK AREA
- COMPLETED WORK
- SOLID WHITE EDGE LINE, 4" (70307120)
- SOLID WHITE EDGE LINE, 6" (70306130)
- SOLID YELLOW EDGE LINE, 4" (70307120)
- WHITE DOTTED LINE, LINE, 6" (2' DASH, 6' SKIP) (70306130)
- WHITE SKIP DASH LINE, 4" (10' DASH, 30' SKIP) (70307120)
- WHITE CHEVRONS, 12" (70307160)
- WHITE DOTTED LINE, 6" (3' DASH, 9' SKIP) (70306130)
- TEMPORARY CONCRETE BARRIER & ATTENUATOR (TEST LEVEL 3) (70400100) & (70600260)
- TEMPORARY CONCRETE BARRIER & ATTENUATOR (WIDE) (70400100) & (70600270)
- ARROW BOARD
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT, 50' C-C
- BARRIER WALL REFLECTOR (TYPE C), 25' C-C (78200011)
- DRUMS, 50' C-C TANGENTS, 25' C-C TAPERS
- TYPE III BARRICADE

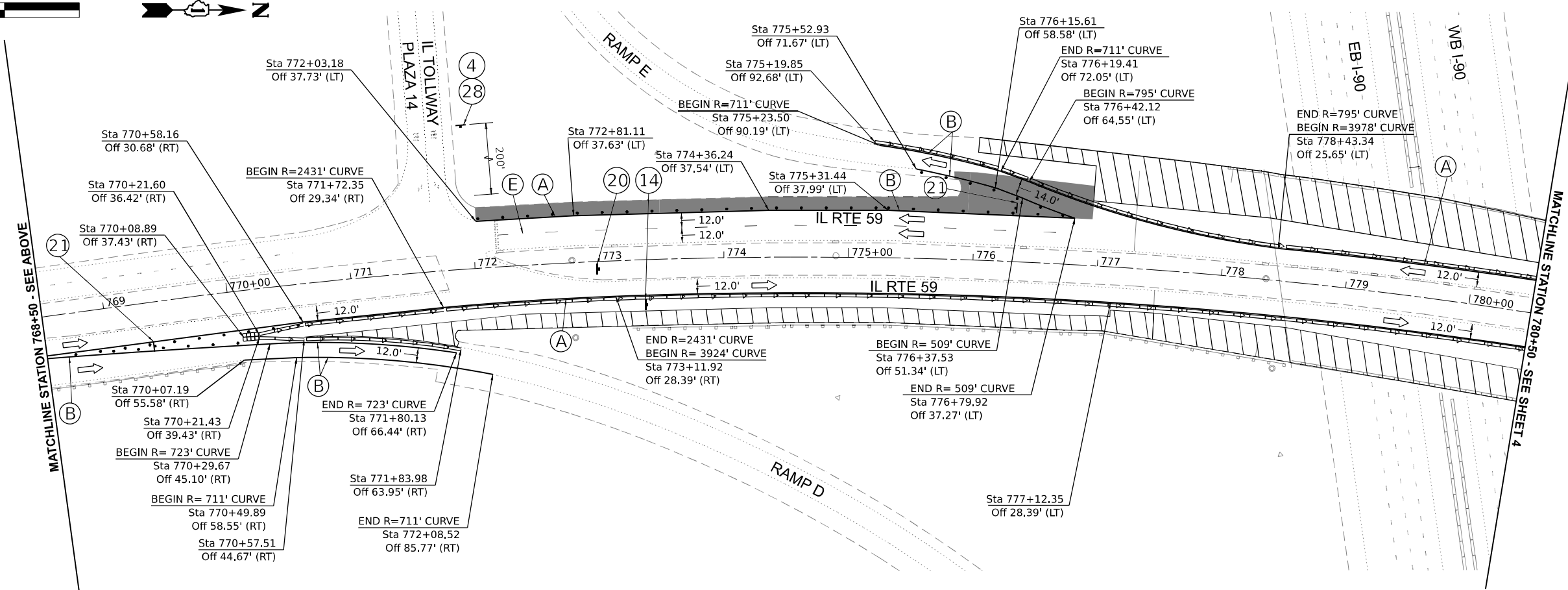


PINNING TEMPORARY CONCRETE BARRIER (70400125)					
MEASURED FROM IL 59 ALIGNMENT					
BEGIN STA	END STA	BEGIN OFFSET	END OFFSET	L/R	LENGTH*
770+64.45	771+71.45	32.69	31.34	R	112.50
775+32.35	776+97.74	90.72	49.2	L	175.00
782+18.24	783+54.83	42.75	70.92	R	137.50

\*LENGTH OF ONE TCB SECTION IS 12.5'

0 50 100 150

SCALE IN FEET



MODEL: P:\m\Stages\6\Sheet 1  
 FILE NAME: P:\040058-1\DOT\040058-01-002 (ENGL)-PTB-195-016 Phase II Var\m\Engineering\W0\_18-IL\_59 over I90\500 Drawings\502\_CADD\_Sheets\01-002-195-016-MOT-Stage 2.dgn



USER NAME = vvesco	DESIGNED - VV	REVISED -
PLOT SCALE = 0.166666' / in.	DRAWN - VV	REVISED -
PLOT DATE = 01/29/2024	CHECKED - AP	REVISED -
	DATE - 01/29/2024	REVISED -

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

**MAINTENANCE OF TRAFFIC - STAGE 2**  
**ILLINOIS ROUTE 59 OVER INTERSTATE 90**

SCALE: 1:50    SHEET 3 OF 7 SHEETS    STA. 758+50 TO STA. 780+50

















F.A.P. RTE. 0338	SECTION 2021-075-BDR&B/R	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 28
CONTRACT NO. 62P12			ILLINOIS FED. AID PROJECT	

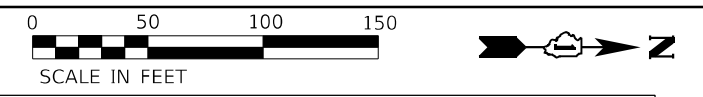
MATCHLINE STATION 768+50 - SEE BELOW

MATCHLINE STATION 780+50 - SEE SHEET 4



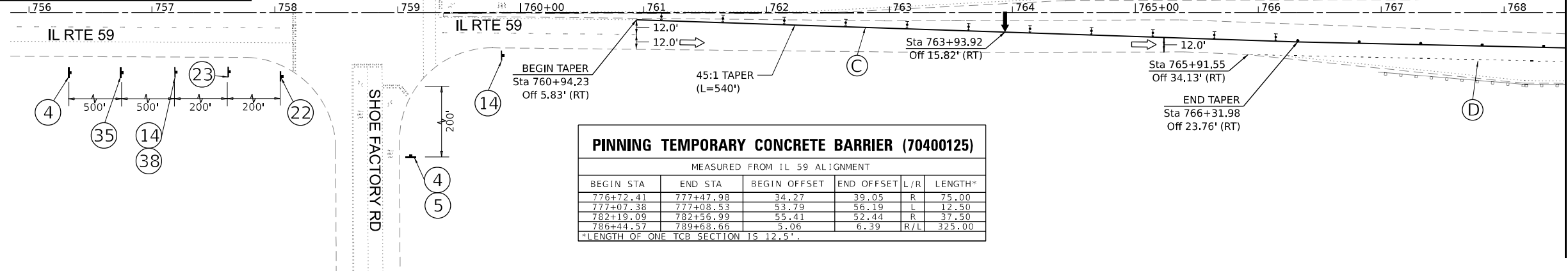
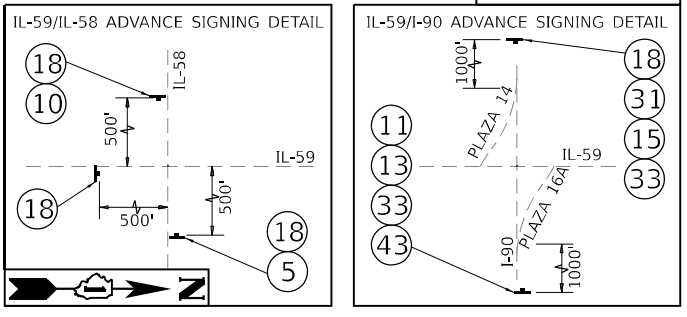
**MOT LEGEND AND SYMBOLS**

-  WORK AREA
-  COMPLETED WORK
-  SOLID WHITE EDGE LINE, 4" (70307120)
-  SOLID WHITE EDGE LINE, 6" (70306130)
-  SOLID YELLOW EDGE LINE, 4" (70307120)
-  WHITE DOTTED LINE, LINE, 6" (2' DASH, 6' SKIP) (70306130)
-  WHITE SKIP DASH LINE, 4" (10' DASH, 30' SKIP) (70307120)
-  WHITE CHEVRONS, 12" (70307160)
-  WHITE DOTTED LINE, 6" (3' DASH, 9' SKIP) (70306130)
-  TEMPORARY CONCRETE BARRIER & ATTENUATOR (TEST LEVEL 3) (70400100) & (70600260)
-  TEMPORARY CONCRETE BARRIER & ATTENUATOR (WIDE) (70400100) & (70600270)
-  ARROW BOARD
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT, 50' C-C
-  BARRIER WALL REFLECTOR (TYPE C), 25' C-C (78200011)
-  DRUMS, 50' C-C TANGENTS, 25' C-C TAPERS
-  TYPE III BARRICADE



**TEMPORARY CONCRETE BARRIER ITEM QUANTITIES - STAGE 3**

ITEM NAME	ITEM CODE #	STAGE	SUBTOTAL	UNIT
RELOCATE TEMPORARY CONCRETE BARRIER	70400200		1675	FOOT
IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	70600260		3	EACH
IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	70600270		0	EACH
IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	70600327		0	EACH
IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	70600332		1	EACH

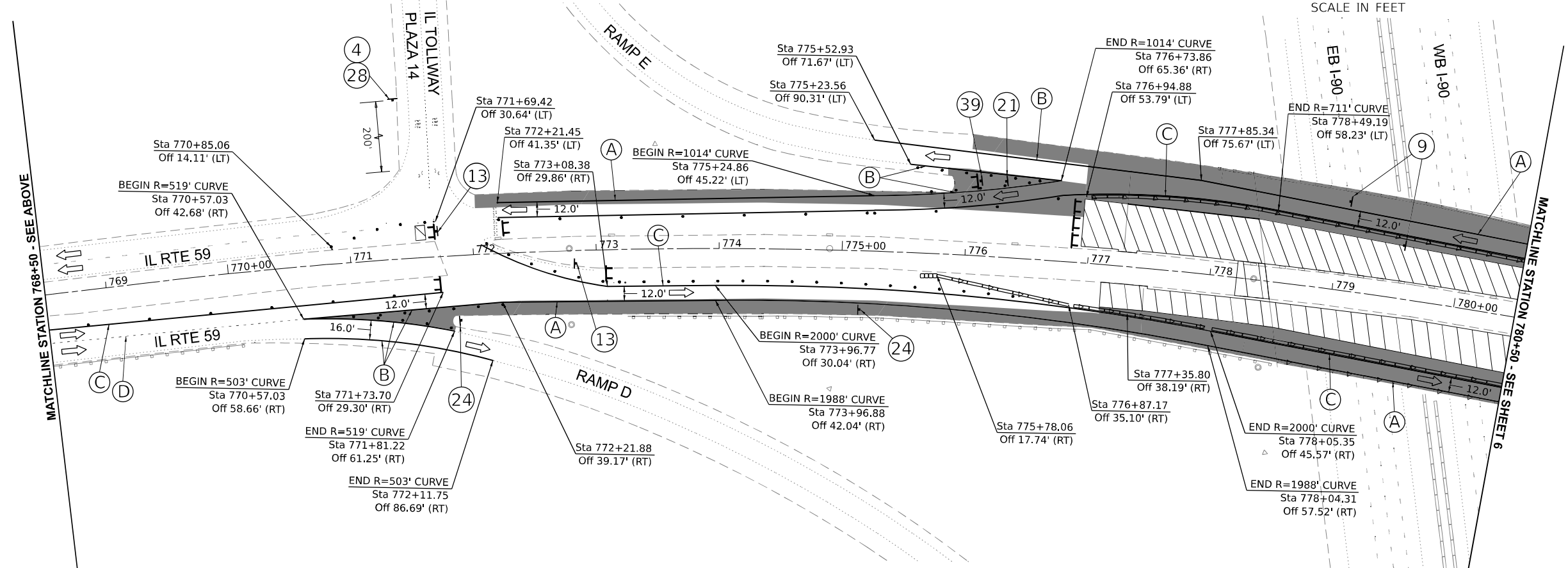
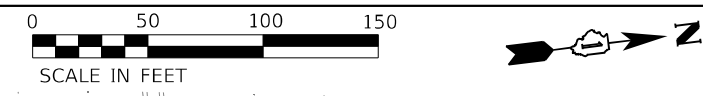


**PINNING TEMPORARY CONCRETE BARRIER (70400125)**

MEASURED FROM IL 59 ALIGNMENT

BEGIN STA	END STA	BEGIN OFFSET	END OFFSET	L/R	LENGTH*
776+72.41	777+47.98	34.27	39.05	R	75.00
777+07.38	777+08.53	53.79	56.19	L	12.50
782+19.09	782+56.99	55.41	52.44	R	37.50
786+44.57	789+68.66	5.06	6.39	R/L	325.00

\*LENGTH OF ONE TCB SECTION IS 12.5'



MODEL: Stage 3 (SHEET 1)  
 FILE NAME: P:\040055 - IDOT\040055-01-002 (ENGL) - FTB-195-016 Phase II Var Var\Engineering\MO-18-IL-59 over I90\500 Drawings\502\_CADD\_Sheets\01-002-IL-59 over I90-Stage 3.dgn



USER NAME = vvesco	DESIGNED - VV	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - VV	REVISED -
PLOT DATE = 03/11/2024	CHECKED - AP	REVISED -
	DATE - 03/11/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

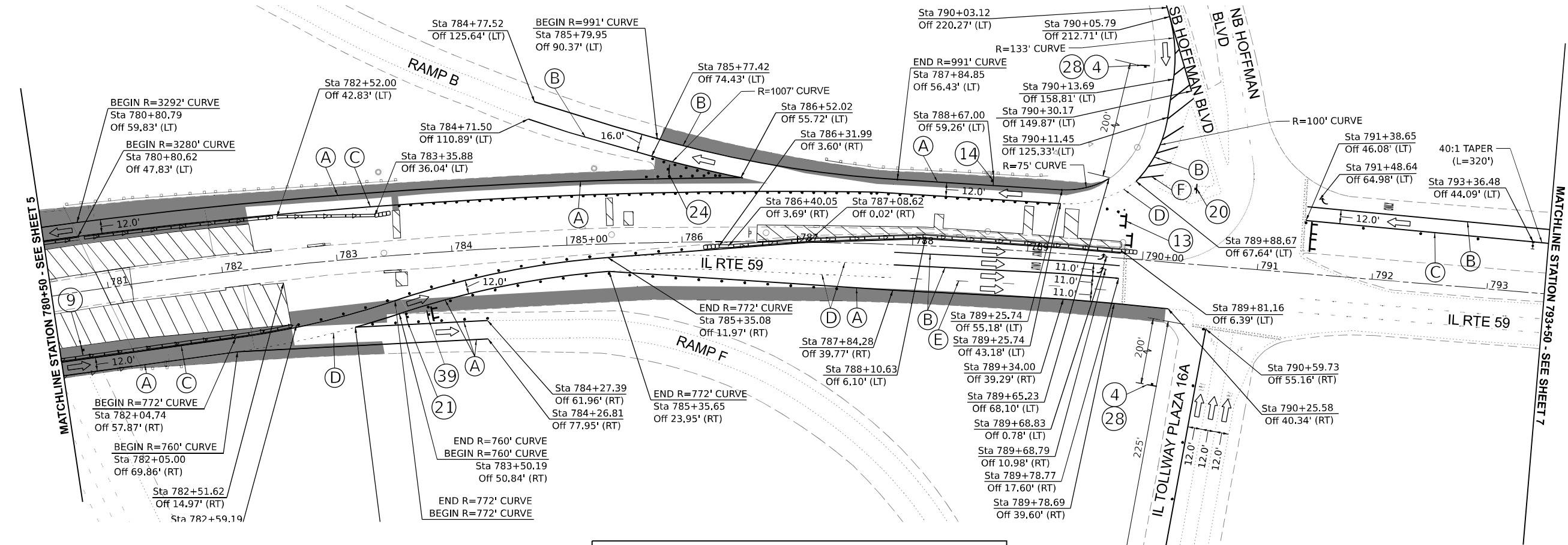
**MAINTENANCE OF TRAFFIC - STAGE 3  
ILLINOIS ROUTE 59 OVER INTERSTATE 90**

SCALE: 1:50      SHEET 5 OF 7 SHEETS      STA. 755+85 TO STA. 780+50

F.A.P. RTE. 0338	SECTION 2021-075-BDR&BJR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 30
CONTRACT NO. 62P12			ILLINOIS FED. AID PROJECT	

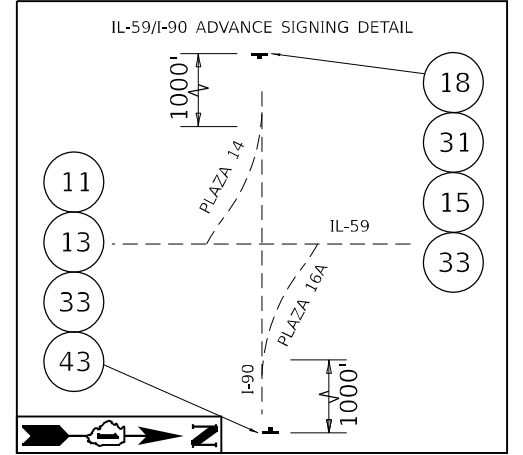
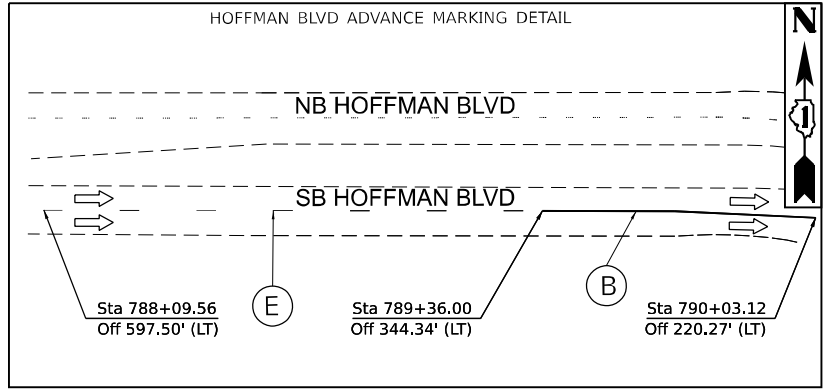
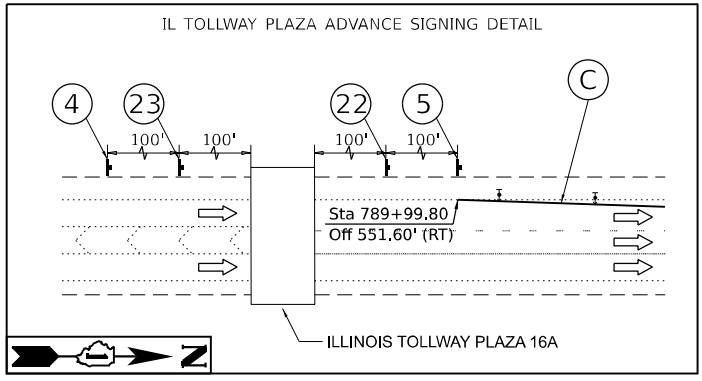
MATCHLINE STATION 768+50 - SEE BELOW

MATCHLINE STATION 780+50 - SEE SHEET 6



**MOT LEGEND AND SYMBOLS**

- WORK AREA
- COMPLETED WORK
- SOLID WHITE EDGE LINE, 4" (70307120)
- SOLID WHITE EDGE LINE, 6" (70306130)
- SOLID YELLOW EDGE LINE, 4" (70307120)
- WHITE DOTTED LINE, LINE, 6" (2' DASH, 6' SKIP) (70306130)
- WHITE SKIP DASH LINE, 4" (10' DASH, 30' SKIP) (70307120)
- WHITE CHEVRONS, 12" (70307160)
- WHITE DOTTED LINE, 6" (3' DASH, 9' SKIP) (70306130)
- TEMPORARY CONCRETE BARRIER & ATTENUATOR (TEST LEVEL 3) (70400100) & (70600260)
- TEMPORARY CONCRETE BARRIER & ATTENUATOR (WIDE) (70400100) & (70600270)
- ARROW BOARD
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT, 50' C-C
- BARRIER WALL REFLECTOR (TYPE C), 25' C-C (78200011)
- DRUMS, 50' C-C TANGENTS, 25' C-C TAPERS
- TYPE III BARRICADE



SEE IL TOLLWAY PLAZA ADVANCE SIGNING DETAIL ON THIS SHEET

MODEL: Stage 3 (SHEET 2)  
 FILE NAME: P:\030055 - DOT\040058-01\002 (ENGI) - FTB 195-016 Phase II Var\en\Engineering\W0\_18 - IL 59 over I90\500 Drawings\502\_CADD\_Sheets\016912-2-11\T-01-Stage 3.dgn

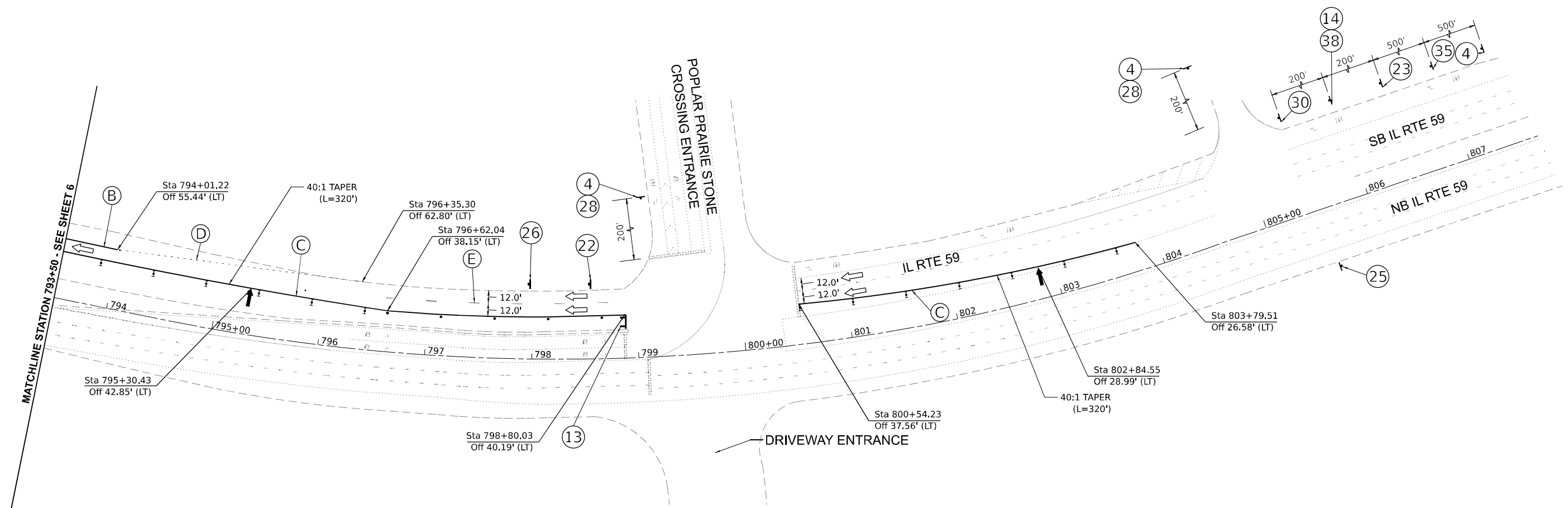


USER NAME	= vvesco	DESIGNED	- VV	REVISED	-
PLOT SCALE	= 0.1667" / in.	DRAWN	- VV	REVISED	-
PLOT DATE	= 03/11/2024	CHECKED	- AP	REVISED	-
		DATE	- 03/11/2024	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC - STAGE 3 ILLINOIS ROUTE 59 OVER INTERSTATE 90</b>			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
0338	2021-075-BDR&B/R	COOK	86
SCALE: 1:50		SHEET 6 OF 7 SHEETS	STA. 780+50 TO STA. 793+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&B/R	COOK	86	31
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				



MATCHLINE STATION 793+50 - SEE SHEET 6

**MOT LEGEND AND SYMBOLS**

- WORK AREA
- COMPLETED WORK
- SOLID WHITE EDGE LINE, 4" (70307120)
- SOLID WHITE EDGE LINE, 6" (70306130)
- SOLID YELLOW EDGE LINE, 4" (70307120)
- WHITE DOTTED LINE, LINE, 6" (2' DASH, 6' SKIP) (70306130)
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- TEMPORARY CONCRETE BARRIER & ATTENUATOR (WIDE) (70400100) & (70600270)
- ARROW BOARD
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT, 50' C-C
- BARRIER WALL REFLECTOR (TYPE C), 25' C-C (78200011)
- DRUMS, 50' C-C TANGENTS, 25' C-C TAPERS
- TYPE III BARRICADE

MODEL: Stage 3 (SHEET 3)  
FILE NAME: P:\030055 - I\DOT\040058-01\202 (ENGL) - FTB\_195-016 Phase II Var Work\Engineering\WO\_18\_18\_1L\_59 over I90\500 Drawings\502\_CADD\_Sheets\15912\18181L59-MOT-Stage 3.dgn



USER NAME = vvesco	DESIGNED - VV	REVISED -
DRAWN - VV	REVISOR -	
PLOT SCALE = 0.1667" / in.	CHECKED - AP	REVISED -
PLOT DATE = 03/11/2024	DATE - 03/11/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

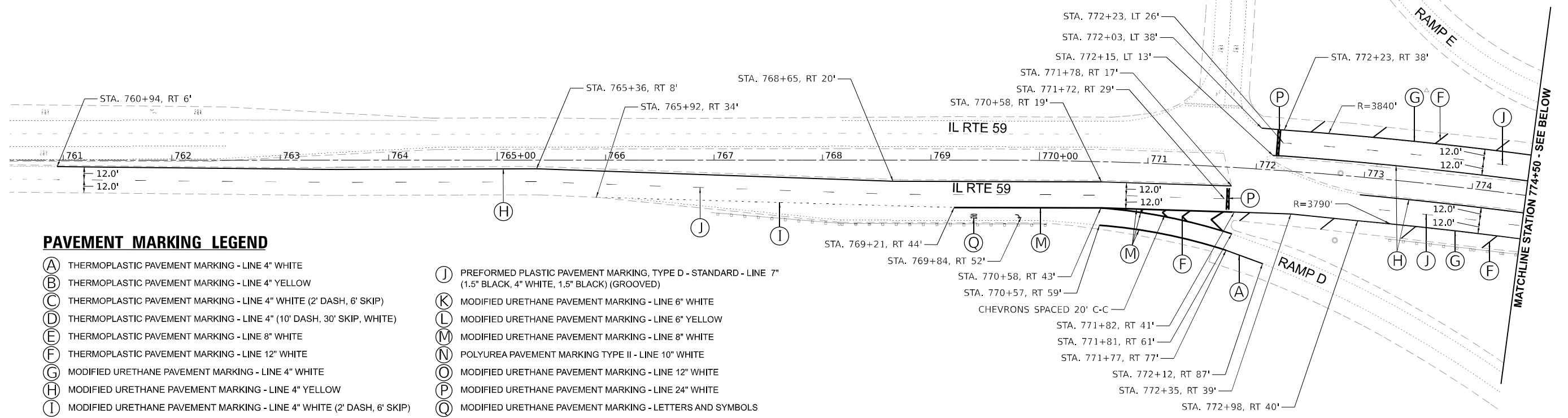
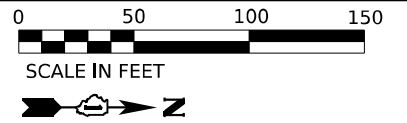
<b>MAINTENANCE OF TRAFFIC - STAGE 3 ILLINOIS ROUTE 59 OVER INTERSTATE 90</b>			
SCALE: 1:50	SHEET 7	OF 7 SHEETS	STA. 793+50 TO STA. END

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	32
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				



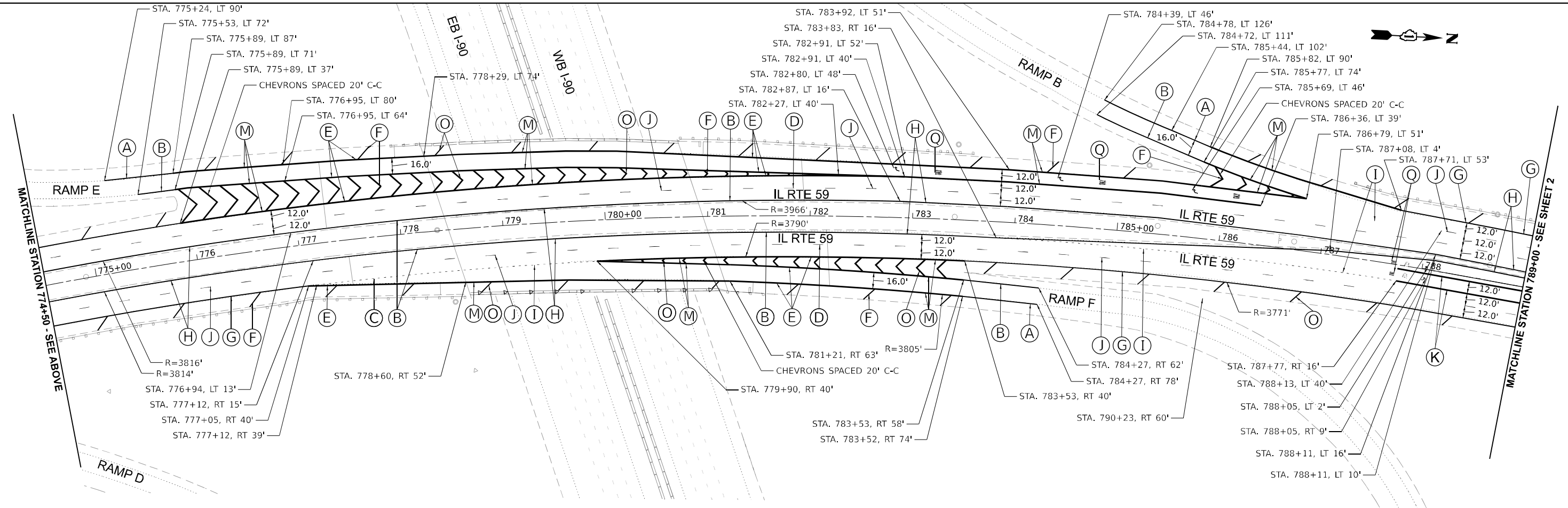
**PAVEMENT MARKING NOTES**

1. PAY ITEM PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 7" (78004635) SHALL BE APPLIED AS "CONTRAST MARKINGS" WITH BLACK EDGELINES AS DESCRIBED IN SSRBC SECTION 1095.03.
2. RAISED REFLECTIVE PAVEMENT MARKERS SHALL NOT BE INSTALLED WITHIN BRIDGE LIMITS.



**PAVEMENT MARKING LEGEND**

- |   |  |
|---|--|
| (A) THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE                        | (J) PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) (GROOVED) |
| (B) THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW                       | (K) MODIFIED URETHANE PAVEMENT MARKING - LINE 6" WHITE   |
| (C) THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (2' DASH, 6' SKIP)     | (L) MODIFIED URETHANE PAVEMENT MARKING - LINE 6" YELLOW  |
| (D) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (10' DASH, 30' SKIP, WHITE)  | (M) MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE   |
| (E) THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE                        | (N) POLYUREA PAVEMENT MARKING TYPE II - LINE 10" WHITE   |
| (F) THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE                       | (O) MODIFIED URETHANE PAVEMENT MARKING - LINE 12" WHITE  |
| (G) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" WHITE                    | (P) MODIFIED URETHANE PAVEMENT MARKING - LINE 24" WHITE  |
| (H) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW                   | (Q) MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS   |
| (I) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" WHITE (2' DASH, 6' SKIP) |  |

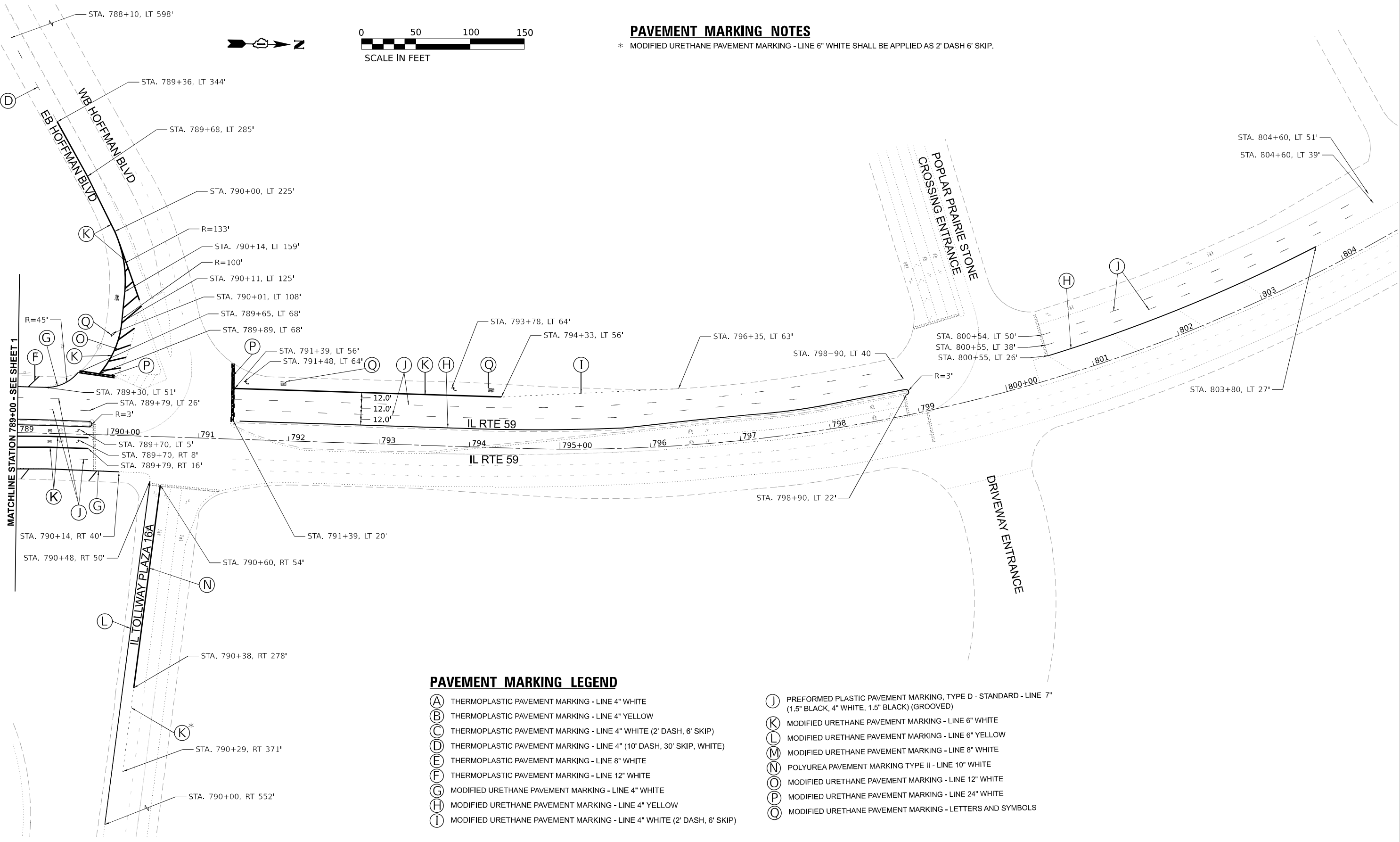


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 DATE: 03/11/2024

	USER NAME = vvesco DESIGNED - VV DRAWN - VV CHECKED - AP DATE - 03/11/2024	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN ILLINOIS ROUTE 59 OVER INTERSTATE 90</b>		F.A.P. RTE. = 0338 SECTION = 2021-075-BDR&BJR COUNTY = COOK TOTAL SHEETS = 86 SHEET NO. = 33 CONTRACT NO. = 62P12
	PLOT SCALE = 0.16666633 "/>	DATE - 03/11/2024		SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 760+50 TO STA. 788+50	ILLINOIS FED. AID PROJECT	

**PAVEMENT MARKING NOTES**

\* MODIFIED URETHANE PAVEMENT MARKING - LINE 6" WHITE SHALL BE APPLIED AS 2' DASH 6' SKIP.



**PAVEMENT MARKING LEGEND**

- (A) THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE
- (B) THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW
- (C) THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (2' DASH, 6' SKIP)
- (D) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (10' DASH, 30' SKIP, WHITE)
- (E) THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE
- (F) THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE
- (G) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" WHITE
- (H) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW
- (I) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" WHITE (2' DASH, 6' SKIP)
- (J) PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) (GROOVED)
- (K) MODIFIED URETHANE PAVEMENT MARKING - LINE 6" WHITE
- (L) MODIFIED URETHANE PAVEMENT MARKING - LINE 6" YELLOW
- (M) MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE
- (N) POLYUREA PAVEMENT MARKING TYPE II - LINE 10" WHITE
- (O) MODIFIED URETHANE PAVEMENT MARKING - LINE 12" WHITE
- (P) MODIFIED URETHANE PAVEMENT MARKING - LINE 24" WHITE
- (Q) MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
ILLINOIS ROUTE 59 OVER INTERSTATE 90**

SCALE: 1"=50'  
SHEET 2 OF 2 SHEETS  
STA. 788+50 TO STA. 801+25

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	34
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				




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 FILE NAME: P:\030358 - I\DOT\030358-01\002 (ENGL) - FTB\_195-016 Phase II Var\Var\Engineering\1120\_Plan\_31\_Sheet1.dwg  
 PLOT DATE: 03/11/2024

**Bowman**  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-454-0500  
 www.bowman.com



USER NAME	DESIGNED	REVISIONS
= vvesco	- VV	-
PLOT SCALE = 0.16666633 1/16"	DRAWN - VV	REVISED -
PLOT DATE = 03/11/2024	CHECKED - AP	REVISED -
	DATE - 03/11/2024	REVISED -

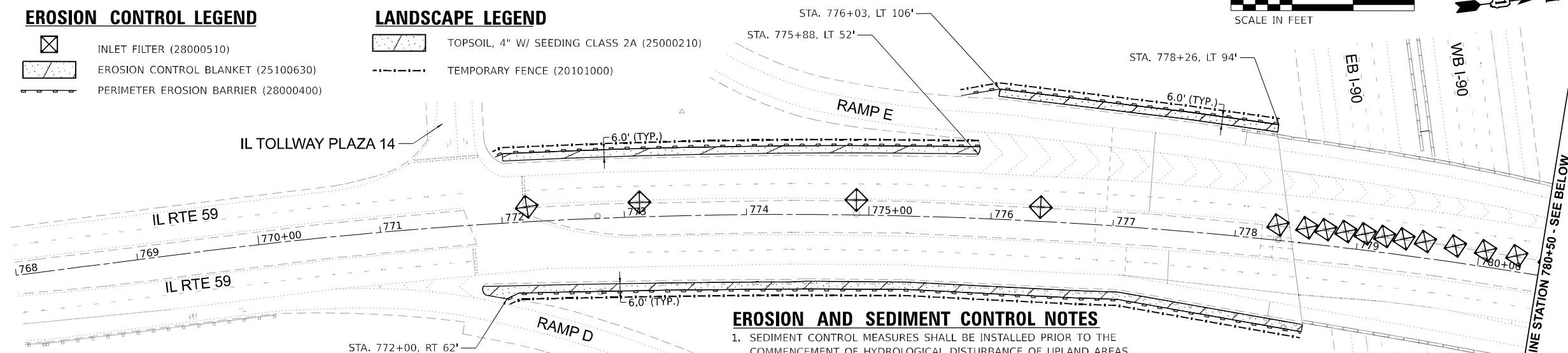


**EROSION CONTROL LEGEND**

-  INLET FILTER (28000510)
-  EROSION CONTROL BLANKET (25100630)
-  PERIMETER EROSION BARRIER (28000400)

**LANDSCAPE LEGEND**

-  TOPSOIL, 4" W/ SEEDING CLASS 2A (25000210)
-  TEMPORARY FENCE (20101000)

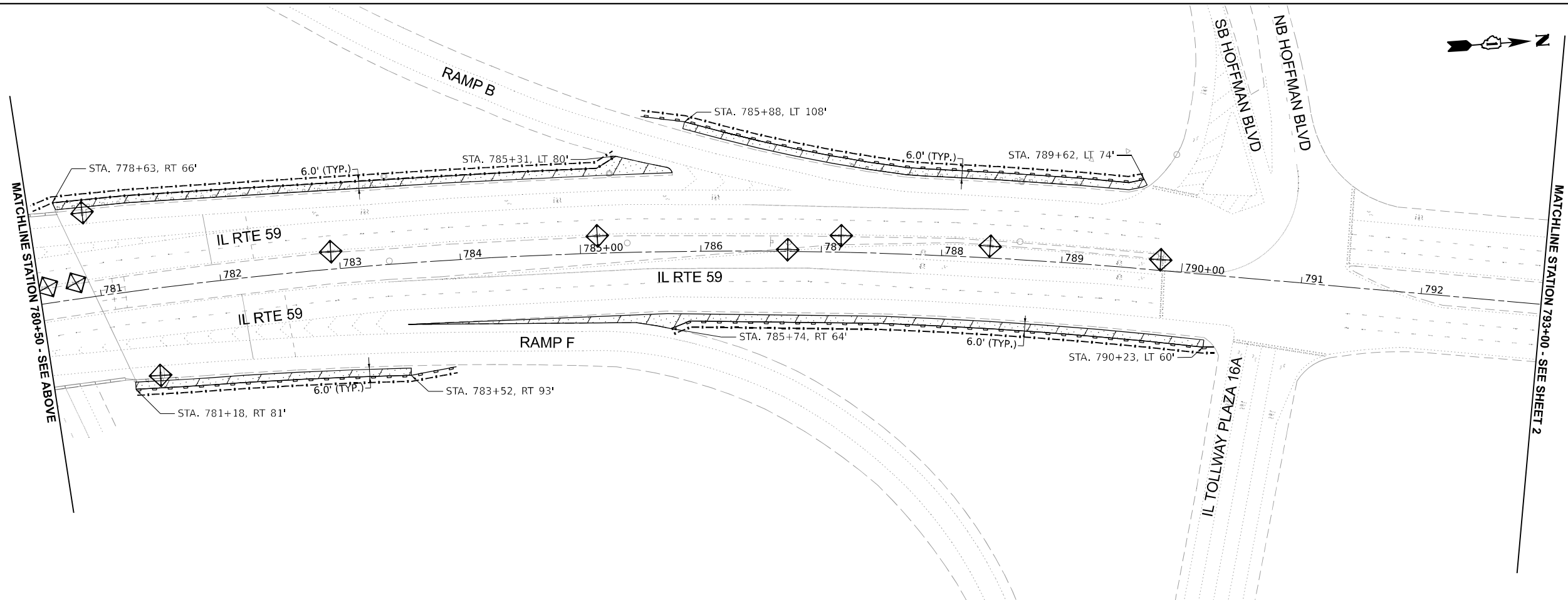


**LANDSCAPING NOTES**

1. TEMPORARY FENCING TO BE PLACED IN A PERIMETER AROUND PERMANENT LANDSCAPING AREAS.
2. WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL (K0029632) TO BE USED TO KILL WEEDS IN CONCRETE MEDIAN AND GORE AREAS. ITEM CAN ALSO BE USED TO KILL WEEDS IN GUARDRAIL AREAS AS NEEDED FOR VISIBILITY.

**EROSION AND SEDIMENT CONTROL NOTES**

1. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGICAL DISTURBANCE OF UPLAND AREAS.
2. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDER DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.
3. STORM SEWERS, SCUPPERS, ETC. THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
4. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED.
5. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER THE FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
6. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PER THE APPROPRIATE TEMPORARY TRAFFIC CONTROL STAGE WHERE DISTURBANCE WILL AFFECT THE ACTIVE HYDROLOGIC ELEMENT.



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PLOT DATE = 01/29/2024	DATE - 01/29/2024	REVISED -

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

**EROSION AND LANDSCAPE PLAN**  
**ILLINOIS ROUTE 59 OVER INTERSTATE 90**

SCALE: 1:50    SHEET 1 OF 1 SHEETS    STA. 768+00 TO STA. 793+00

F.A.P. RTE. 0338	SECTION 2021-075-BDR&BJR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 36
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				

Existing Structure: ISTHA Bridge No. 509, Structure No. 016-2599 was built in 1991 under Section (108, 109, N-6-4)R. The Existing Structure is a two span continuous PPC superstructure, skewed 15°16'52". The back-to-SAbutment length is 250'-11<sup>3</sup>/<sub>16</sub>", and the structure has span lengths of 120'-7" and 124'-5<sup>1</sup>/<sub>16</sub>". The out-to-out width of the superstructure is 153'-2<sup>3</sup>/<sub>4</sub>". The structure has a reinforced concrete deck and substructure.

Traffic to be maintained using staged construction.

**SCOPE OF WORK**

1. Perform Deck & Approach Slabs Partial and Full Depth Patching
2. Hydro-scarify Bridge Deck 3/4"
3. Install New 2 3/4" Latex Overlay
4. Diamond Grind bridge deck 1/4"
5. Perform Bridge Deck Grooving
6. Apply Protective Coat over New 2 3/4" Latex Overlay
7. Install New HMA Overlay at Approach Slabs
8. Install New Shallow Strip Seal Joints at North and South Abutments
9. Clean Bridge Drainage System & Drainage Structures
10. Install New Polymer Nosing with New Preformed Joint
11. Seal at End of Bridge Approach Slabs  
Reseal Longitudinal Joint
12. Perform Formed Concrete Repair at North-East Corner of Parapet Wall & North-East Concrete Curb
13. Perform Epoxy Crack Injection at East Parapet Wall
14. Remove and Replace Approach Median in the Limits Shown in Plans
15. Replace Deteriorated Portions of B6-24 Curb and Gutter
16. Apply Concrete Sealer to Bridge Parapets and Raised Median over Bridge

**DESIGN STRESSES**

**FIELD UNITS (EXIST. CONST.)**

f'c = 3,500 psi  
fy = 60,000 psi  
**PPC BEAMS**  
f'c = 6,000 psi  
f'ci = 5,000 psi

**FIELD UNITS (NEW CONST.)**

f'c = 4,000 psi (Superstructure)  
fy = 60,000 psi (Reinforcement)

**DESIGN SPECIFICATIONS**

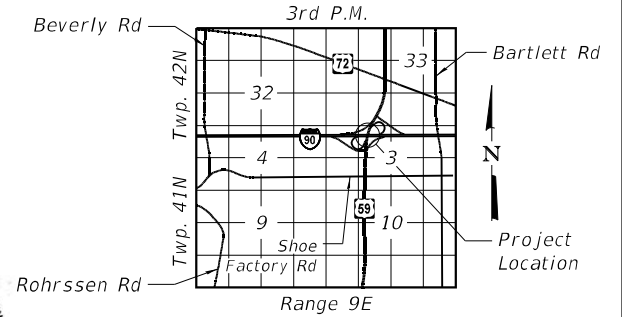
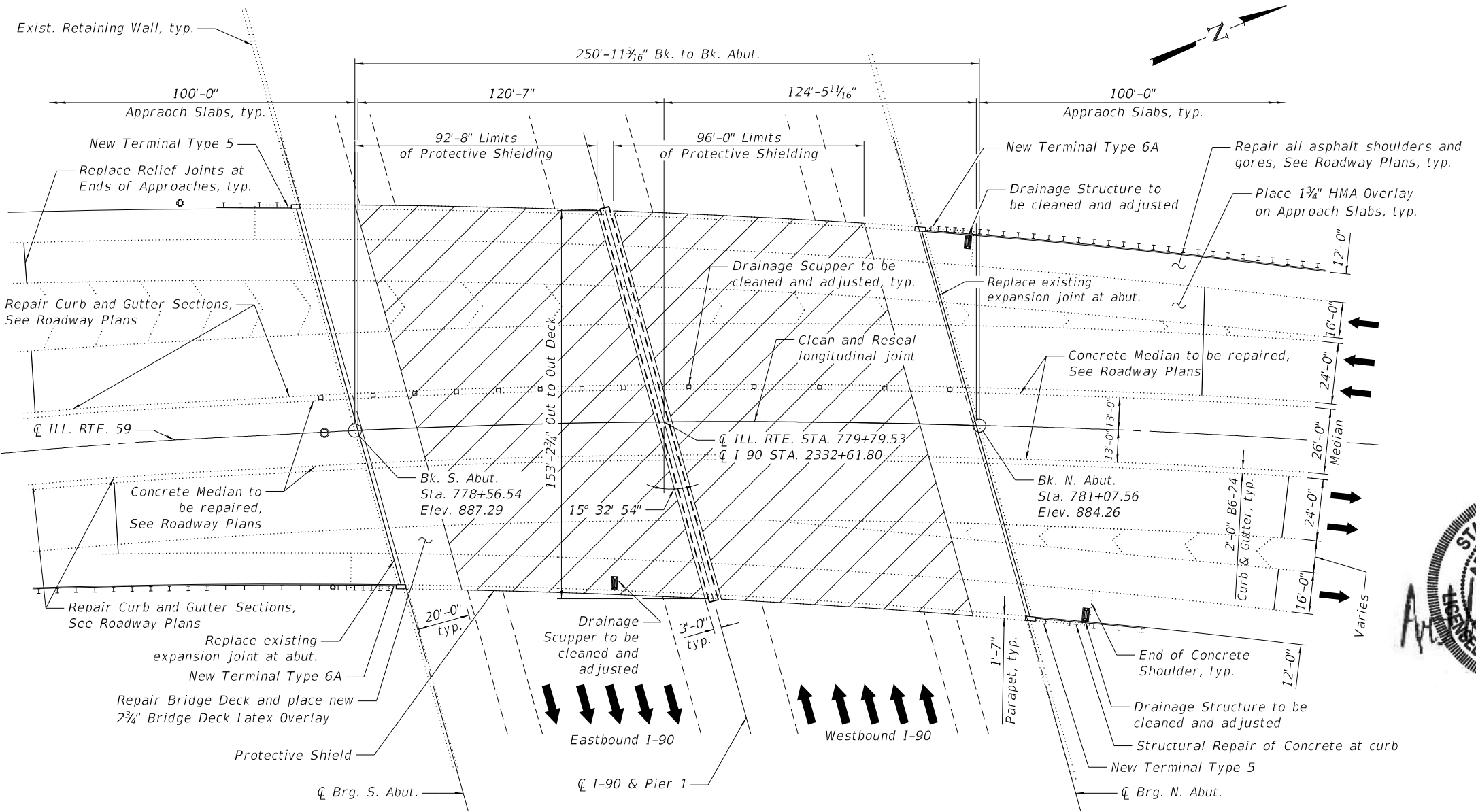
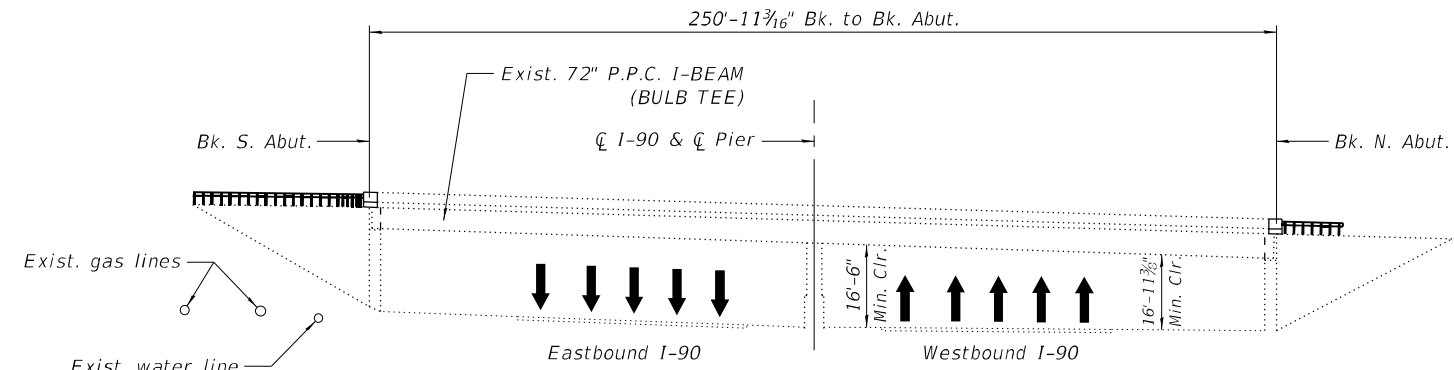
2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

**LOADING HS20-44**

No Allowance for Future Wearing Surface

**INDEX OF SHEETS**

1. General Plan & Elevation
2. General Notes & Bill of Material
3. Maintenance of Traffic Details
4. Temporary Concrete Barrier for Stage Construction
5. Deck Repair & Overlay Plans - West Half
6. Deck Repair & Overlay Plans - East Half
7. South Approach Slab Repair & Overlay Plans & Relief Joint Locations
8. North Approach Slab Repair & Overlay Plans & Relief Joint Locations
9. Adjusting Drainage Structure Details
10. Adjusting Bridge Scupper Details
11. Parapet Repair
12. Joint Removal Limits - South Abutment
13. Joint Removal Limits - North Abutment
14. Joint Repair Limits - South Abutment
15. Joint Repair Limits - North Abutment
16. Expansion Joint Details
17. Preformed Joint Strip Seal
18. Bar Splicer Assembly Details
- 19 - 32. Applicable As-Built Plans



**GENERAL PLAN & ELEVATION**  
**ILLINOIS ROUTE 59 OVER INTERSTATE 90**  
**F.A.P. RTE. 338-SECTION 2021-075-BDR&BJR**  
**COOK COUNTY**  
**STRUCTURE NO. 016-2599**

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<b>Bowman</b> <small>311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606 312-464-0800 www.bowman.com</small>	USER NAME = atiemann	DESIGNED - AT, JK	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL PLAN &amp; ELEVATION</b> <b>STRUCTURE NO. 016-2599</b>	F.A.P. RTE. 338	SECTION 2021-075-BDR&BJR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 37
	PLOT SCALE =	DRAWN - AT, JK	REVISED -			SHEET 1 OF 32 SHEETS	CONTRACT NO. 62P12			
	PLOT DATE = 01/29/2024	CHECKED - AJN	REVISED -			ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Concrete Sealer shall be applied to front and top face of bridge parapets and entire surface of the raised median on the bridge.
3. Protective Coat shall be applied to the new latex concrete overlay.
4. Joint Openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.
5. Any adjustment done to the Protective Shield System must not change the load carrying capacity (or containment specifications) as indicated in the STD specs. Cost of adjusting shielding is included in the cost of Protective Shield.
6. The contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
7. Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustment prior to construction of 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 for the work.
8. No concrete cutting shall be permitted until the cutting limits have been outlined by the contractor and approved by the engineer.
9. Whenever any material is deposited into a bridge drainage system or drainage structures, the deposited material shall be removed at the close of each working day. At the conclusion of construction operations, all drainage systems and structures shall be free from dirt and debris deposited during the various construction operations. The work specified above will not be paid for separately, but shall be considered included in the cost of "Cleaning Bridge Scuppers and Downspouts" and "Drainage Structures to be Cleaned".
10. It shall be the contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
11. The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.

**TOTAL BILL OF MATERIAL**

PAY ITEM	ITEM	UNIT	SUPER	SUB	TOTAL
50102400	Concrete Removal	CU. YD.	17.2	-	17.2
50157300	Protective Shield	SQ. YD.	3213	-	3213
50300255	Concrete Superstructure	CU. YD.	20.1	-	20.1
50300300	Protective Coat	SQ. YD.	3444	-	3444
50800205	Reinforcement Bars, Epoxy Coated	POUND	3900	-	3900
50800515	Bar Splicers	EACH	32	-	32
52000030	Preformed Joint Seal 2½"	FOOT	16.0	-	16.0
52000040	Preformed Joint Seal 3½"	FOOT	44.0	-	44.0
52000050	Preformed Joint Seal 4"	FOOT	90.0	-	90.0
52000110	Preformed Joint Strip Seal	FOOT	316.0	-	316.0
58700300	Concrete Sealer	SQ. FT.	8160	-	8160
59000200	Epoxy Crack Injection	FOOT	23	-	23
60300105	Frames and Grates To Be Adjusted	EACH	2	-	2
X0322215	Cleaning Bridge Scuppers and Downspouts	EACH	13	-	13
X0326766	Clean & Reseal Relief Joint	FOOT	248	-	248
X5030250	Bridge Deck Grooving (Longitudinal)	SQ. YD.	2618	-	2618
Z0001800	Approach Slab Repair (Partial Depth)	SQ. YD.	28.8	-	28.8
Z0006016	Bridge Deck Latex Concrete Overlay, 2 3/4 Inches	SQ. YD.	3399	-	3399
Z0012130	Bridge Deck Scarification 3/4"	SQ. YD.	3399	-	3399
Z0012754	Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	SQ. FT.	50.0	-	50.0
Z0012755	Structural Repair of Concrete (Depth Greater Than 5 Inches)	SQ. FT.	10.0	-	10.0
Z0016001	Deck Slab Repair (Full Depth, Type I)	SQ. YD.	0.5	-	0.5
Z0016002	Deck Slab Repair (Full Depth, Type II)	SQ. YD.	1.0	-	1.0
Z0018051	Drainage Scuppers to be Adjusted	EACH	13	-	13
Z0018500	Drainage Structures to be Cleaned	EACH	2	-	2
Z0029090	Diamond Grinding (Bridge Section)	SQ. YD.	3176	-	3176
Z0041895	Polymer Concrete	CU. FT.	14.4	-	14.4

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312-414-0560  
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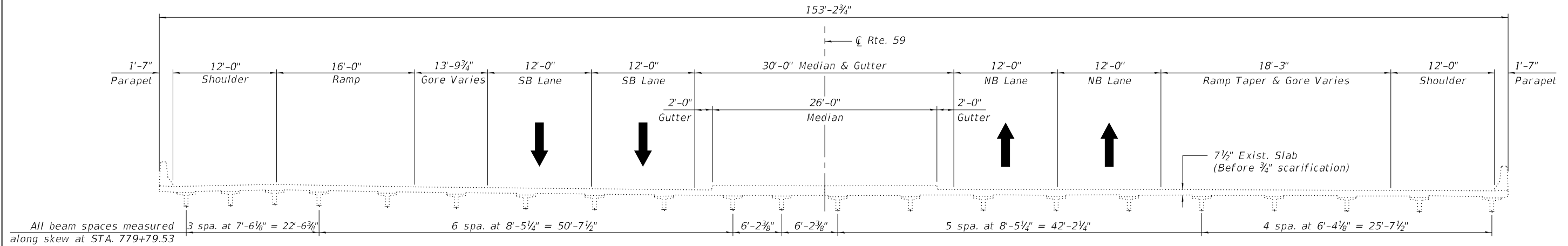
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES & BILL OF MATERIAL  
STRUCTURE NO. 016-2599**

SHEET 2 OF 32 SHEETS

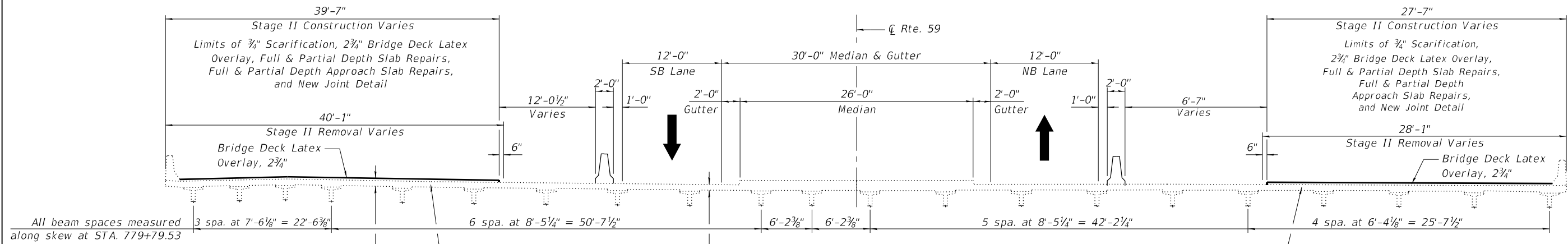
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ILLINOIS		FED. AID PROJECT		

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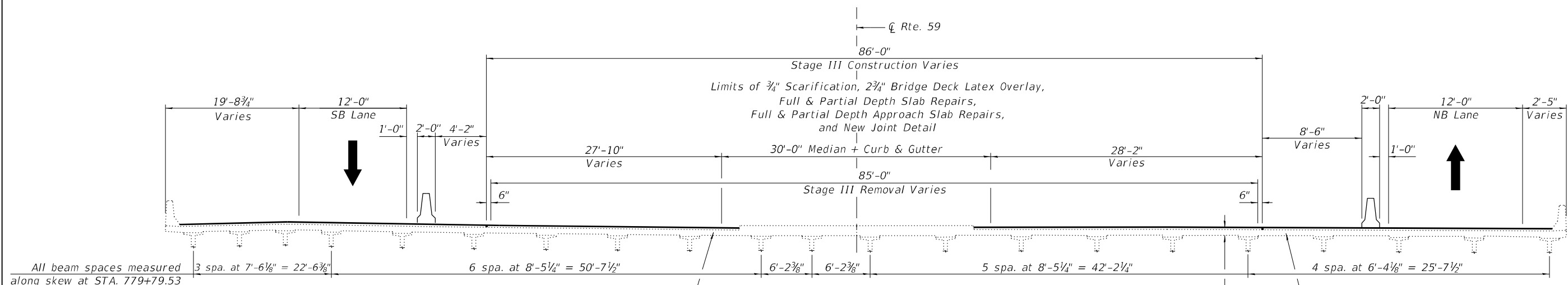
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(All Dimensions Perpendicular to Centerline of Rdwy. at STA. 779+79.53, Unless Noted Otherwise)  
(Looking North)



**STAGE II CONSTRUCTION AND REMOVAL**

(All Dimensions Perpendicular to Centerline of Rdwy. at STA. 779+79.53, Unless Noted Otherwise)  
(Looking North)



**STAGE III CONSTRUCTION AND REMOVAL**

(All Dimensions Perpendicular to Centerline of Rdwy. at STA. 779+79.53, Unless Noted Otherwise)  
(Looking North)

Note:  
No structural work in Stage I, see Roadway plans for Stage I information.

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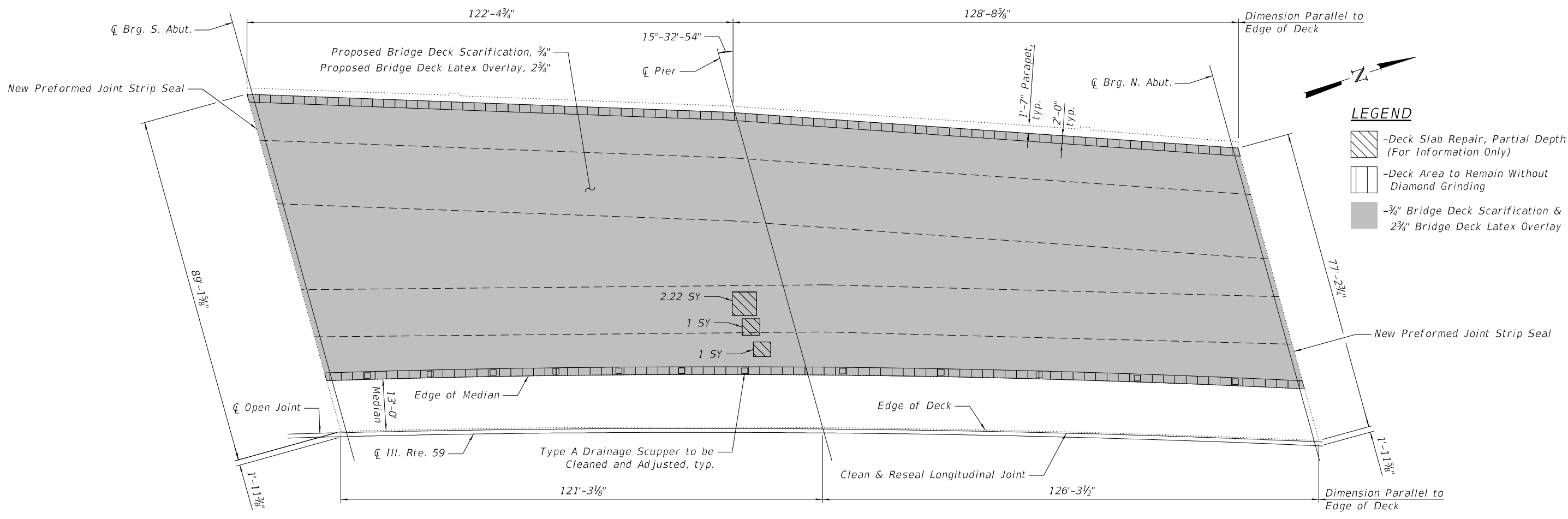
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

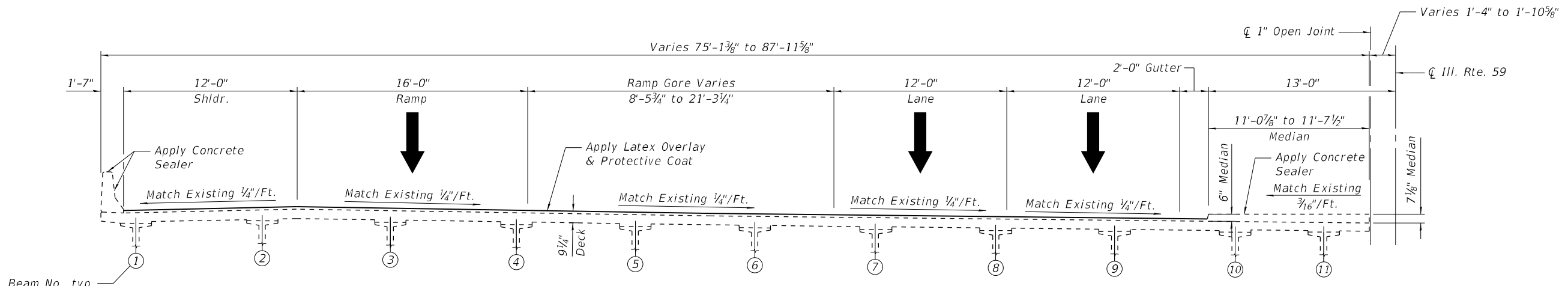
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338	2021-075-BDR&BJR	COOK	86	40
CONTRACT NO.			62P12	
ILLINOIS		FED. AID PROJECT		





PLAN



CROSS SECTION

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Protective Coat	Sq. Yd.	1902
Bridge Deck Latex Concrete Overlay, 2 3/4"	Sq. Yd.	1879
Diamond Grinding (Bridge Section)	Sq. Yd.	1767
Bridge Deck Scarification, 3/4"	Sq. Yd.	1879
Concrete Sealer	Sq. Ft.	3587
Cleaning Bridge Scuppers and Downspouts	Each	12
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1489
Clean & Reseal Relief Joint	Foot	248

- Notes:
- All drainage scuppers must be protected during concrete scarification and overlay placement operations.
  - Use of hand tools is required while working around the scuppers.
  - Hand finish of overlay material is required around the scuppers. The cost is included in Bridge Deck Latex Overlay, 2 3/4"
  - Quantities and limits of repairs shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.

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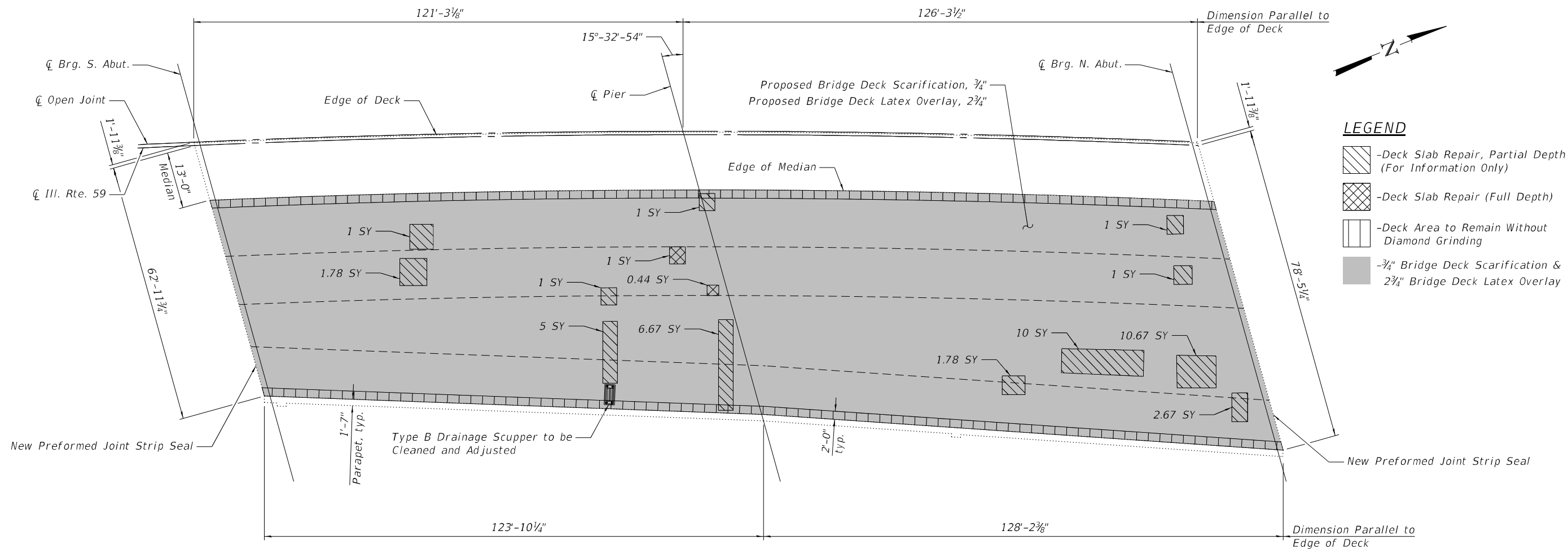
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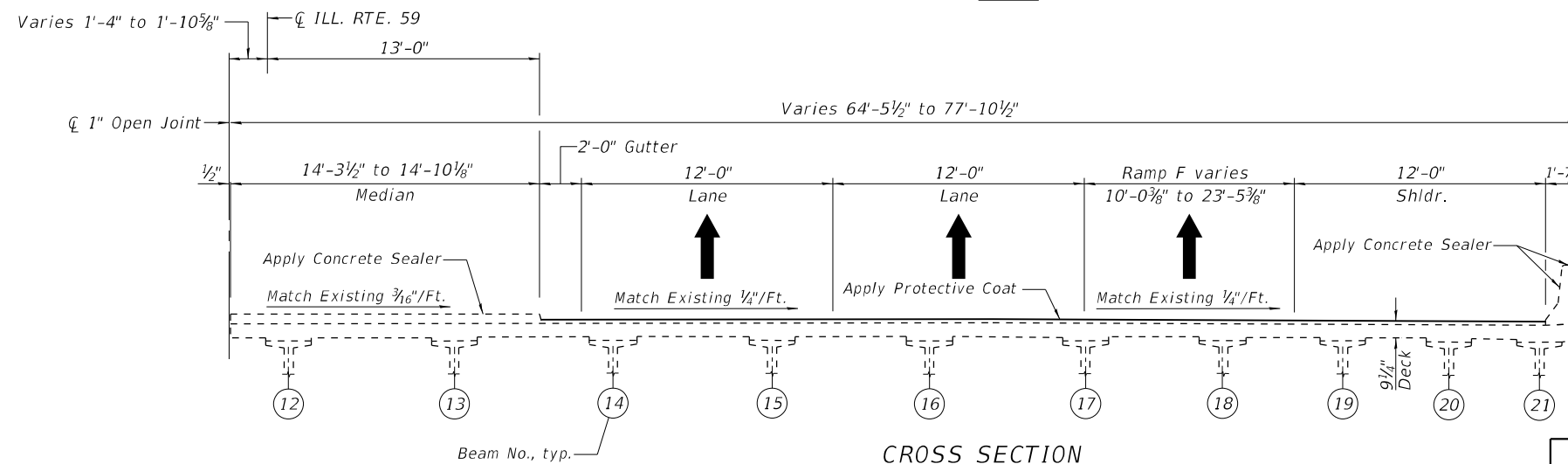
DECK REPAIR & OVERLAY PLANS - WEST HALF  
STRUCTURE NO. 016-2599

SHEET 5 OF 32 SHEETS

F.A.P. RTE. 338	SECTION 2021-075-BDR&BJR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 41
CONTRACT NO. 62P12			ILLINOIS FED. AID PROJECT	



PLAN



CROSS SECTION

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Protective Coat	Sq. Yd.	1542
Bridge Deck Latex Concrete Overlay, 2 3/4"	Sq. Yd.	1520
Diamond Grinding (Bridge Section)	Sq. Yd.	1409
Bridge Deck Scarification, 3/4"	Sq. Yd.	1520
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.5
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	1.0
Concrete Sealer	Sq. Ft.	4573
Cleaning Bridge Scuppers and Downspouts	Each	1
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1129

- Notes:
- The drainage scupper must be protected during concrete scarification and overlay placement operations.
  - Use of hand tools is required while working around the scupper.
  - Hand finish of overlay material is required around the scuppers. The cost is included in Bridge Deck Latex Overlay, 2 3/4".
  - Quantities and limits of repairs shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.

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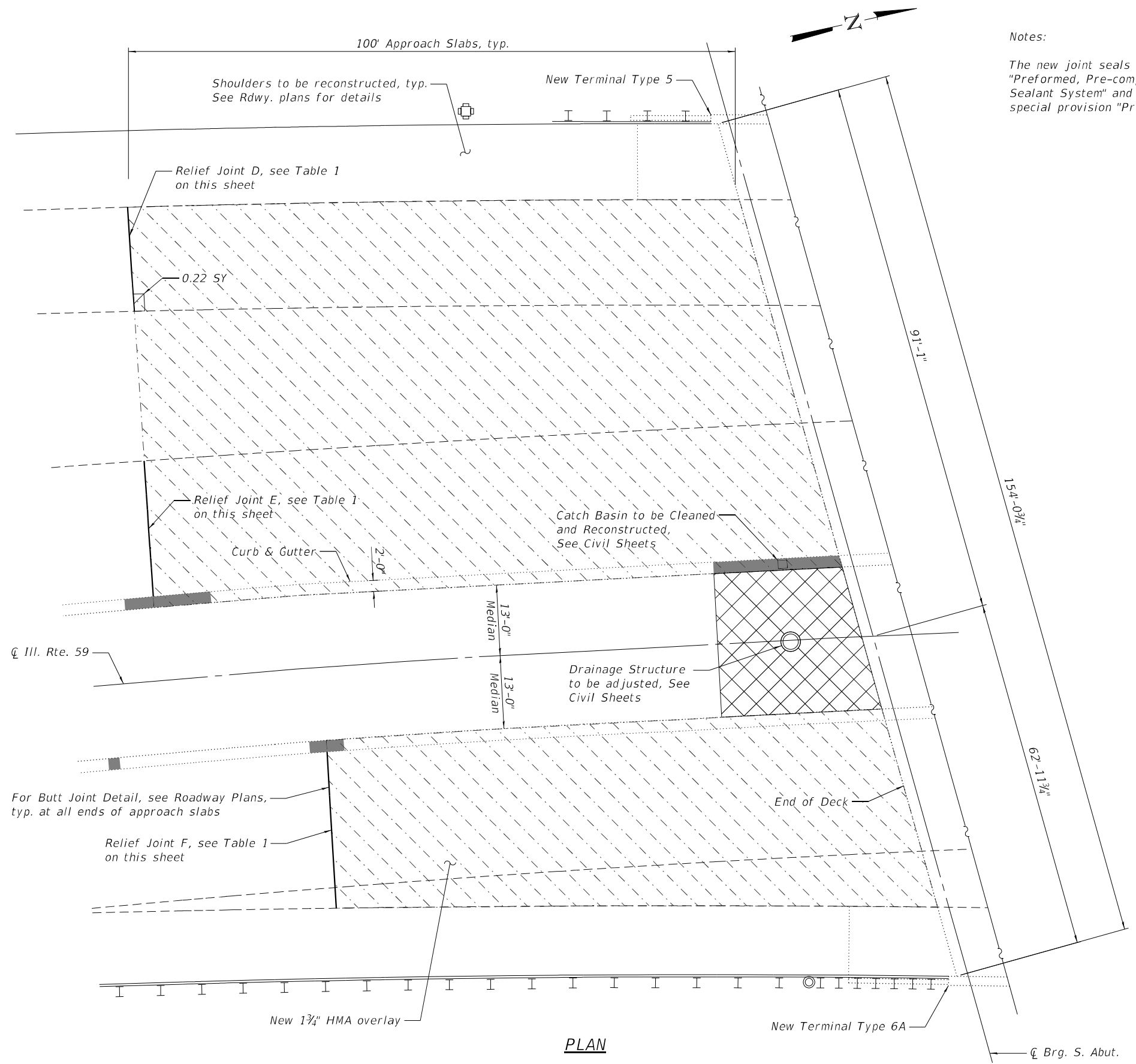
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DECK REPAIR & OVERLAY PLANS - EAST HALF  
STRUCTURE NO. 016-2599

SHEET 6 OF 32 SHEETS

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CONTRACT NO. 62P12			ILLINOIS FED. AID PROJECT	





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**Notes:**

The new joint seals at the end of approach slabs shall be a "Preformed, Pre-compressed, Silicone Coated, Self-Expanding Sealant System" and paid for as Preformed Joint Seal. See special provision "Preformed Bridge Joint Seal" (PBJS).

**LEGEND**

-  - Approach Slab Repair, Partial Depth
-  - Median Removal and Replacement, See Roadway Plans for Limits
-  - 1 3/4" HMA Overlay, See Roadway Plans for Details
-  - Curb & Gutter Removal and Replacement, See Roadway Plans for Limits

**TABLE 1 - RELIEF JOINT SUMMARY**

JOINT LABEL	RELIEF JOINT SEAL TYPE & THICKNESS	JOINT LENGTH	NOSING WIDTH	NOSING DEPTH
A	Preformed Joint Seal 4"	42'	3 1/2"	1 3/4"
B	Preformed Joint Seal 4"	24'	3 1/2"	1 3/4"
C	Preformed Joint Seal 2 1/2"	16'	3 1/2"	1 3/4"
D	Preformed Joint Seal 3 1/2"	16'	3 1/2"	1 3/4"
E	Preformed Joint Seal 4"	24'	3 1/2"	1 3/4"
F	Preformed Joint Seal 3 1/2"	28'	3 1/2"	1 3/4"

**SOUTH APPROACH SLAB BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Approach Slab Repair (Partial Depth)	Sq. Yd.	0.2
Concrete Removal	Sq. Yd.	0.3
Polymer Concrete	Cu. Ft.	7.1
Preformed Joint Seal 3 1/2"	Foot	44.0
Preformed Joint Seal 4"	Foot	24.0

**PLAN**



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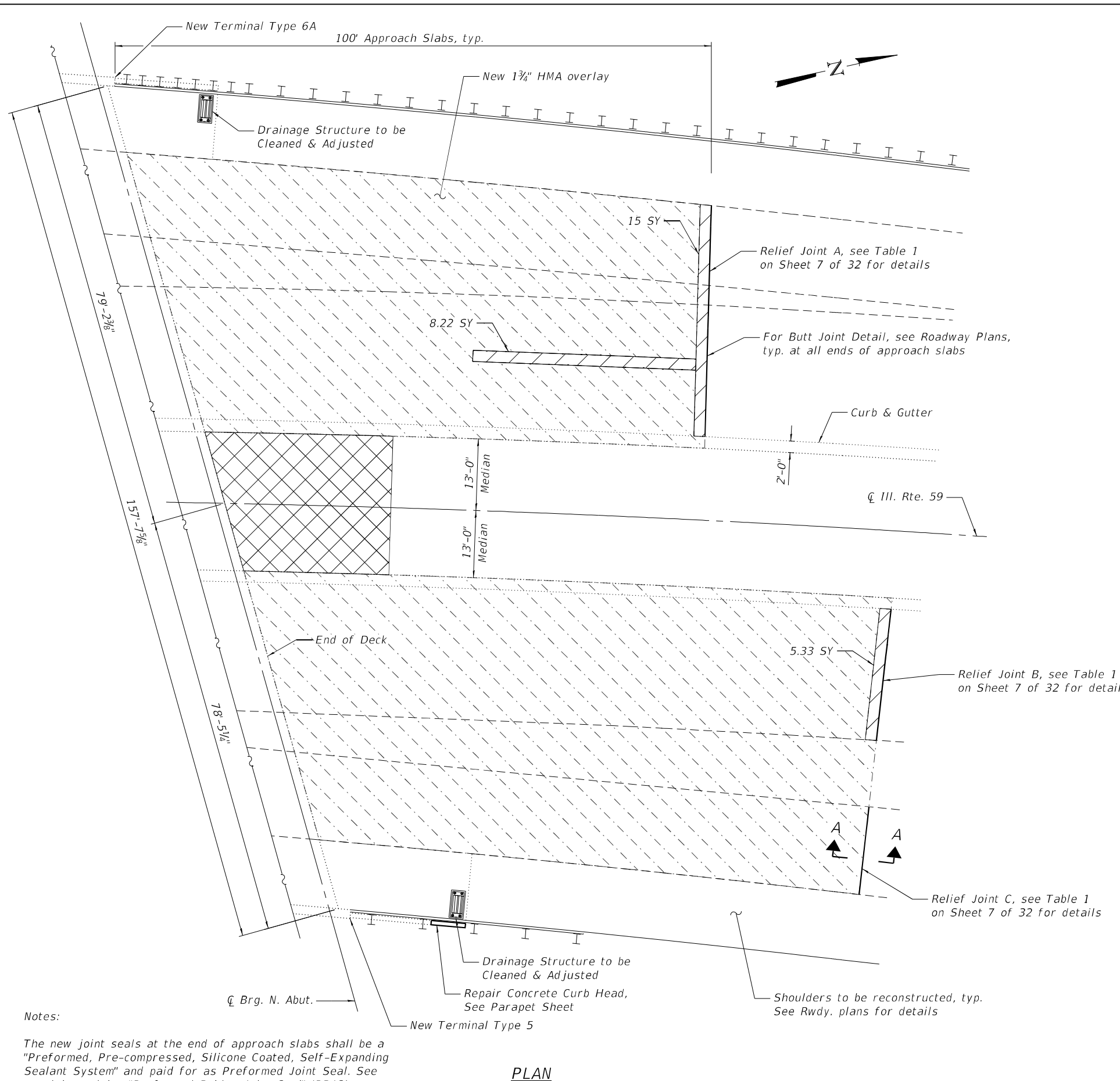
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SOUTH APPROACH SLAB REPAIR & OVERLAY PLANS & RELIEF JOINT LOCATIONS  
 STRUCTURE NO. 016-2599**

SHEET 7 OF 32 SHEETS

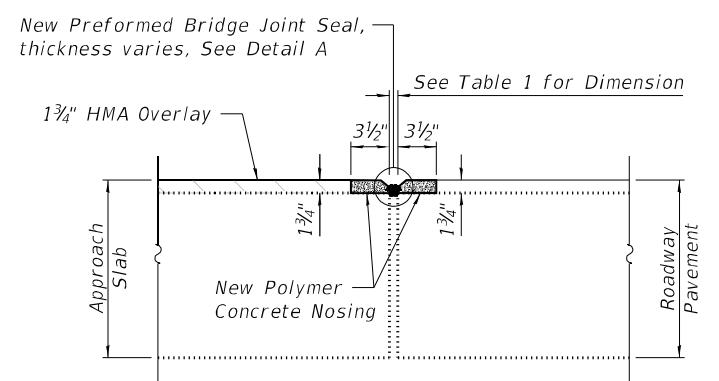
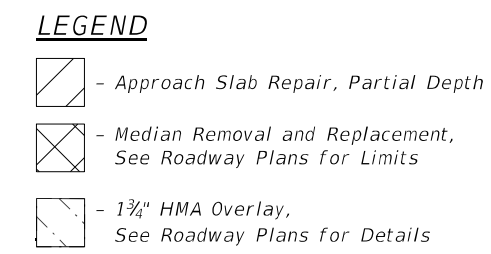
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CONTRACT NO. 62P12			ILLINOIS FED. AID PROJECT	

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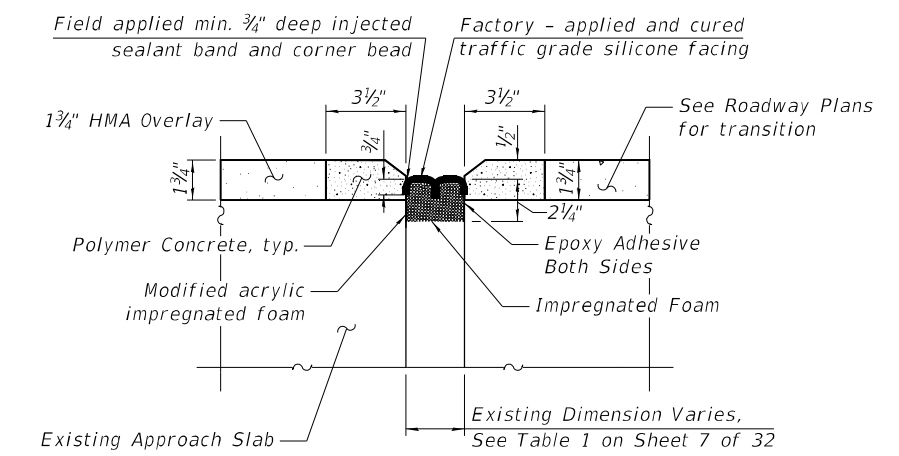


Notes:  
 The new joint seals at the end of approach slabs shall be a "Preformed, Pre-compressed, Silicone Coated, Self-Expanding Sealant System" and paid for as Preformed Joint Seal. See special provision "Preformed Bridge Joint Seal" (PBJS).

**PLAN**



**SECTION A-A**  
 (All relief joints similar, Dim. @ Rt. L's)

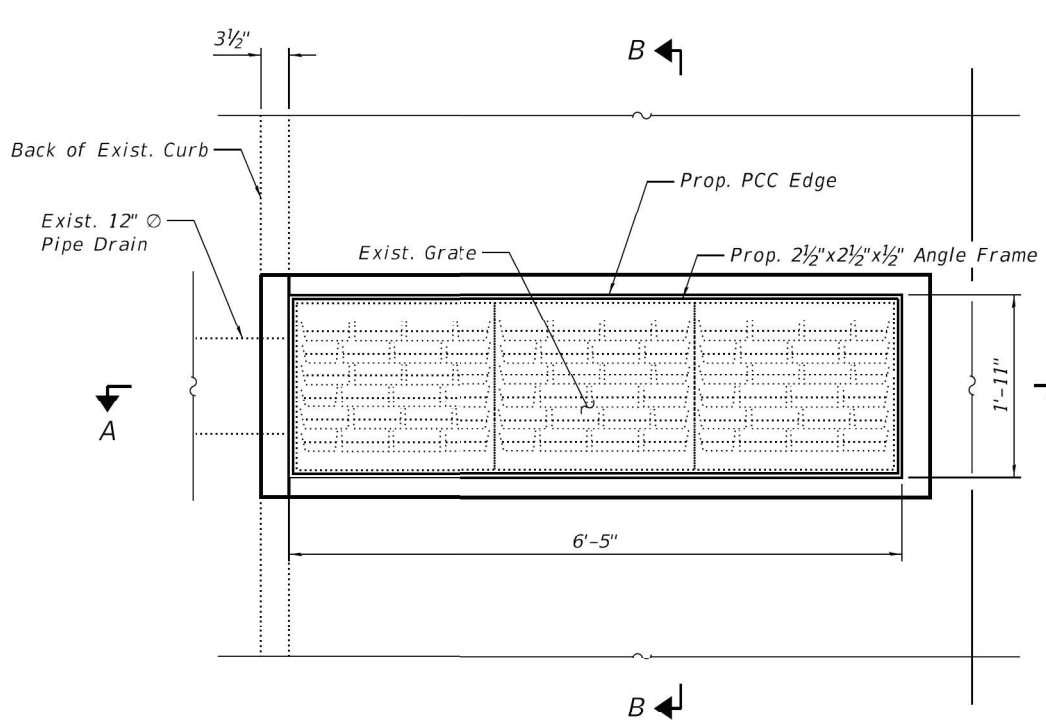


**DETAIL A**  
 (Proposed New Preformed Bridge Joint Seal, Section at start of Approach Slabs)

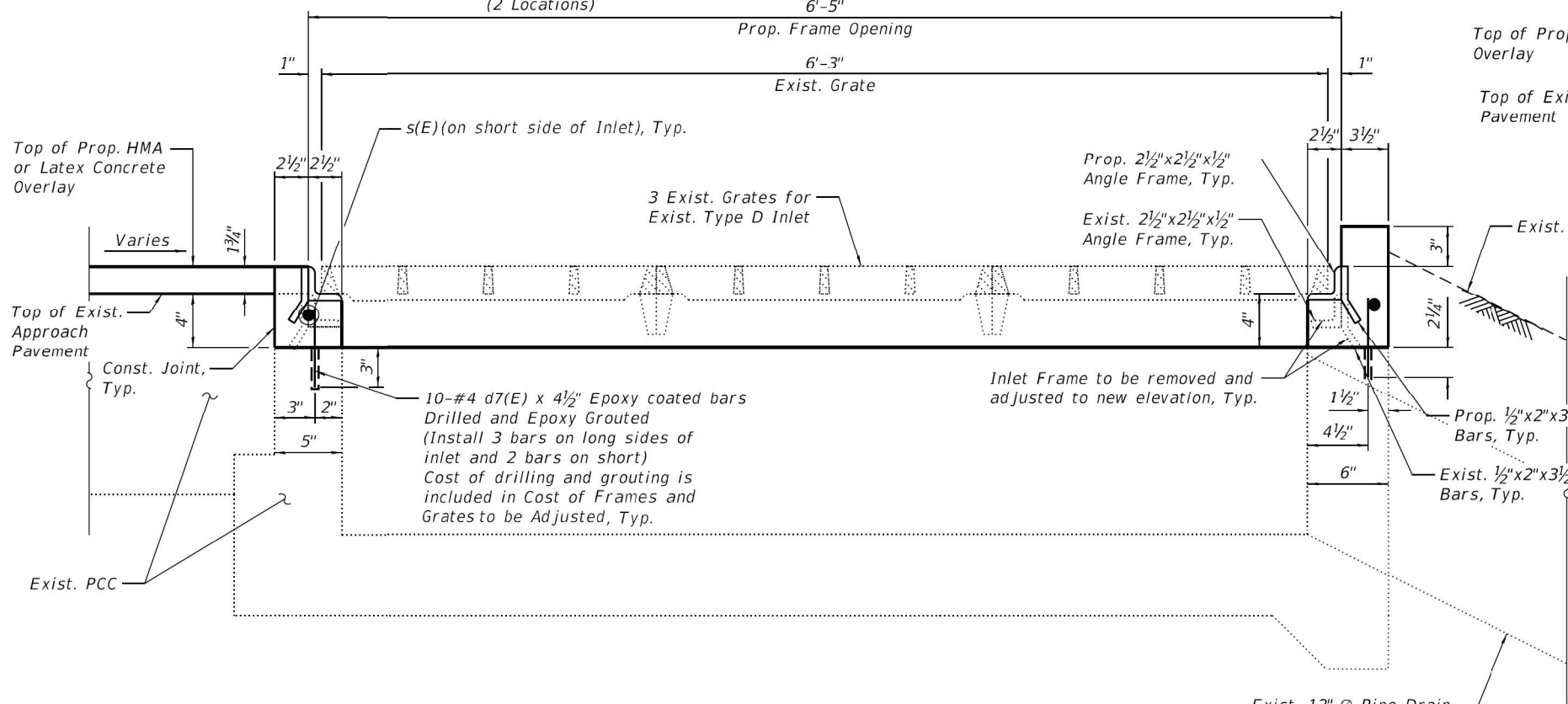
**APPROACH SLABS BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Approach Slab Repair (Partial Depth)	Sq. Yd.	28.6
Concrete Removal	Sq. Yd.	0.3
Polymer Concrete	Cu. Ft.	7.3
Preformed Joint Seal 2 1/2"	Foot	16.0
Preformed Joint Seal 4"	Foot	66.0
Drainage Structures to be Cleaned	Each	2

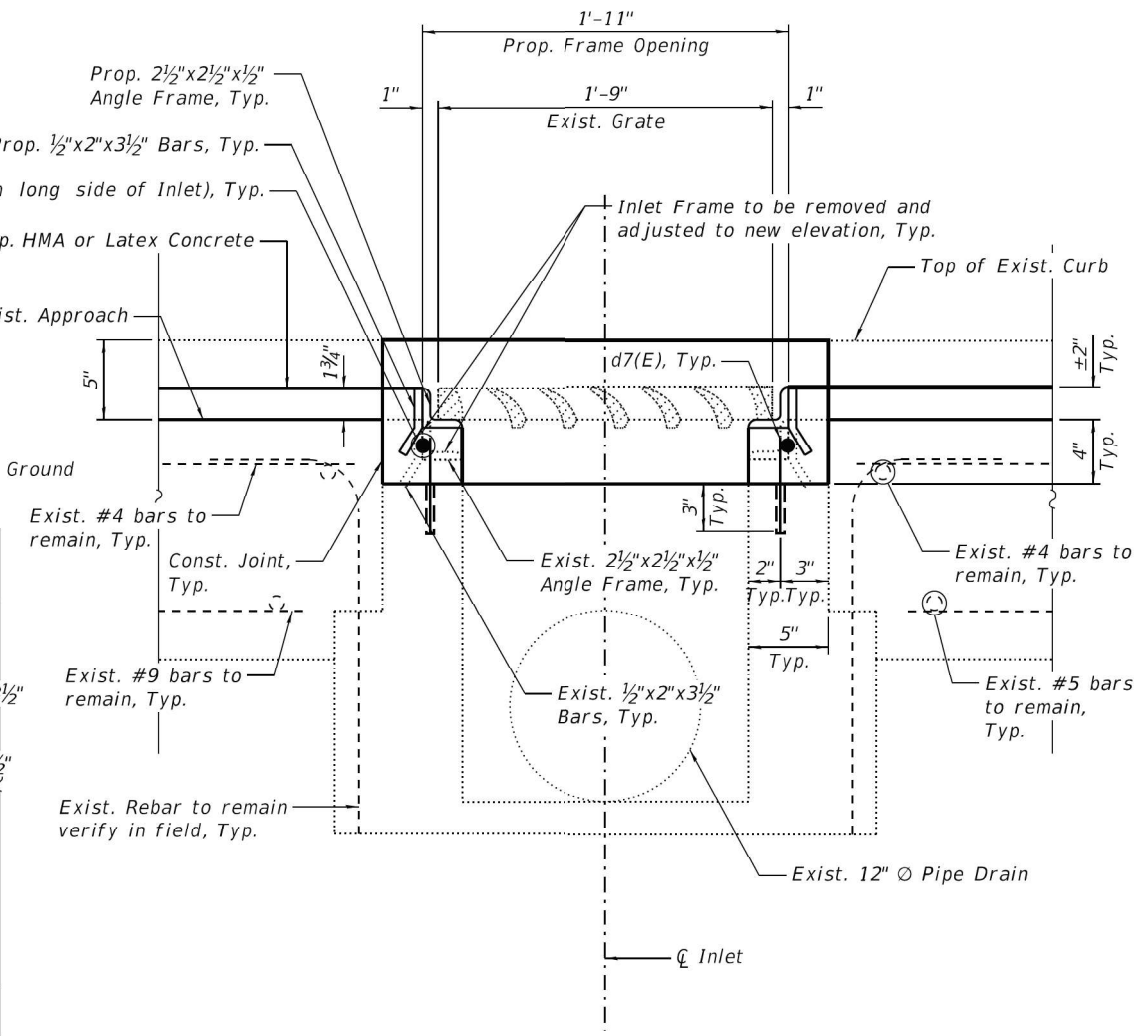
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**TYPICAL DRAINAGE STRUCTURE PLAN**  
(2 Locations)



**SECTION A-A**



**SECTION B-B**

**NOTES**

1. The Contractor shall field verify Existing Dimensions and Details of the Existing Inlets, Frames, and Grates and make necessary adjustments prior to reconstruction of top of inlet, relocation of frame and grate, or ordering of material for Frames and Grates To Be Adjusted.
2. The Contractor shall take appropriate measures to ensure that Protective Coat is not applied to the frames and grates.
3. Cost of all labor and materials necessary to clean all existing inlets, concrete removal, concrete structures, reinforcement bars (epoxy coated) and remove and reinstall frames and grates is included in the cost of Frames and Grates To Be Adjusted. (See Section 603 of the Std. Specs.)
4. Adjust top of Inlet Box elevation to match the top of proposed HMA or latex Concrete Overlay. See Sections A-A and B-B on this sheet.

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Frames and Grates To Be Adjusted	EACH	2



USER NAME = atiemann	DESIGNED - AT, JK	REVISED -
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PLOT DATE = 01/29/2024	DRAWN - AT, JK	REVISED -
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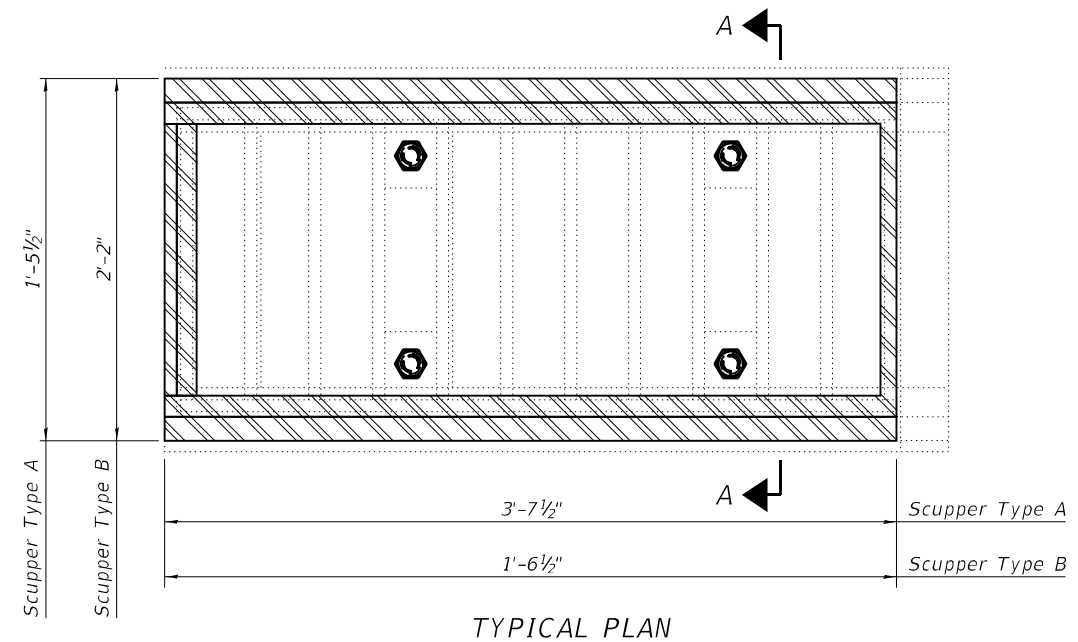
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ADJUSTING DRAINAGE STRUCTURE DETAILS  
STRUCTURE NO. 016-2599**

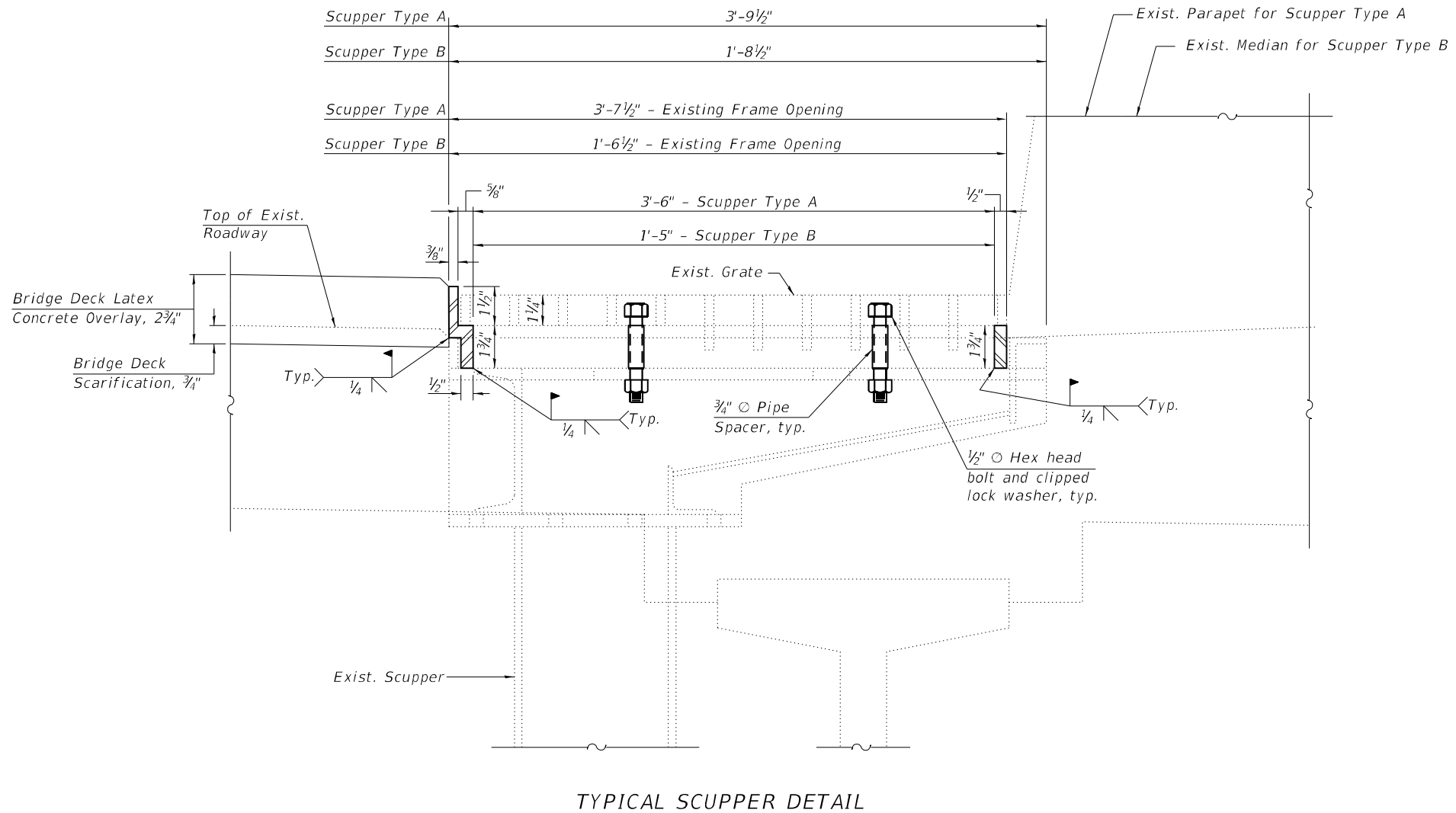
SHEET 9 OF 32 SHEETS

F.A.P. RTE. 338	SECTION 2021-075-BDR&BJR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 45
CONTRACT NO. 62P12			ILLINOIS FED. AID PROJECT	

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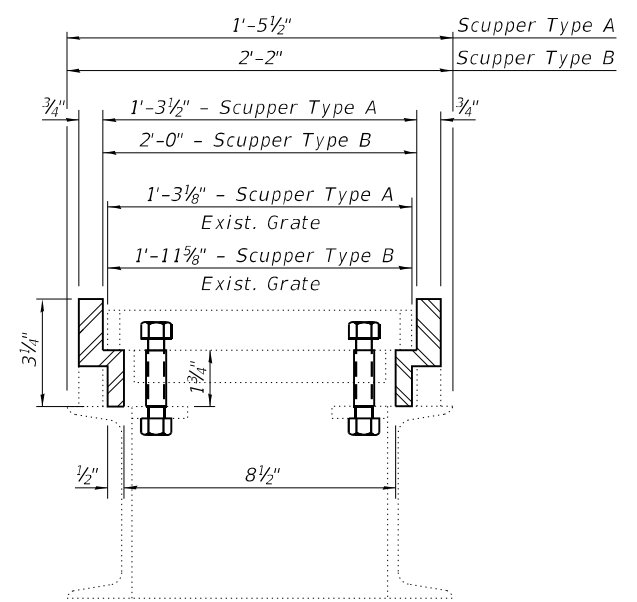
TYPICAL PLAN



TYPICAL SCUPPER DETAIL

NOTES

1. The Contractor shall field verify Existing Dimensions and Details of the Existing Scuppers and make necessary adjustments prior to construction of New Adjusting Ring or ordering of material for Adjusting Drainage Scuppers.
2. All Cast Iron Parts shall be Grey Iron conforming to the requirements of AASHTO M 105, Class 35B.
3. Bolts, Anchor Studs, Washers, and Nuts shall conform to the requirements of AASHTO M 232.
4. Cast Iron Parts shall be unfinished.
5. Adjusting Ring shall be from Neenah and approved equal. Structural Steel weldments or equal sections and of the same configuration may be submitted for Cast Iron. Fillet or full Penetration Welds may be used for weldments. Details shall be submitted to the Engineer for approval.
6. Cost of all labor and materials necessary to install adjusting scupper rings, remove and re-install grates is included in the cost for Drainage Scuppers to be Adjusted.



SECTION A-A

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers to be Adjusted	Each	13

No. Type A Scuppers = 1  
 No. Type B Scuppers = 12



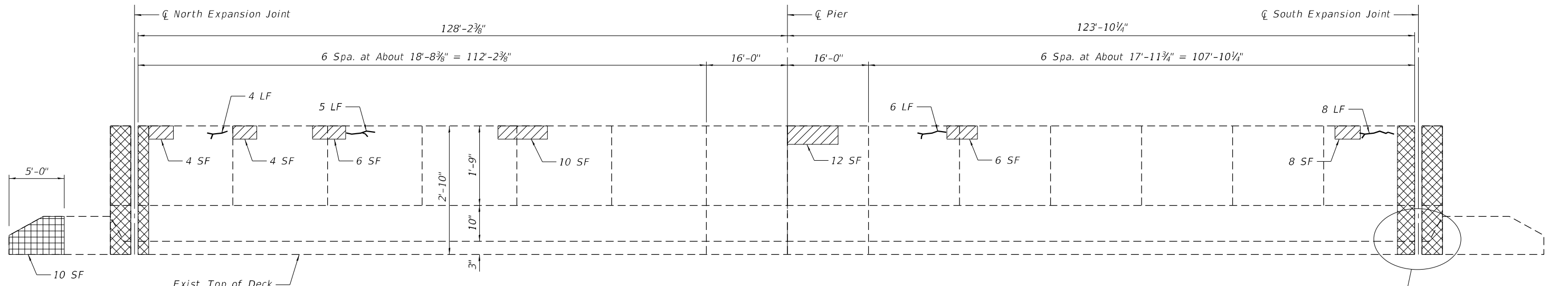
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PLOT DATE = 01/29/2024	DRAWN - AT, JK	REVISED -
	CHECKED - AJN	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ADJUSTING BRIDGE SCUPPER DETAILS  
 STRUCTURE NO. 016-2599

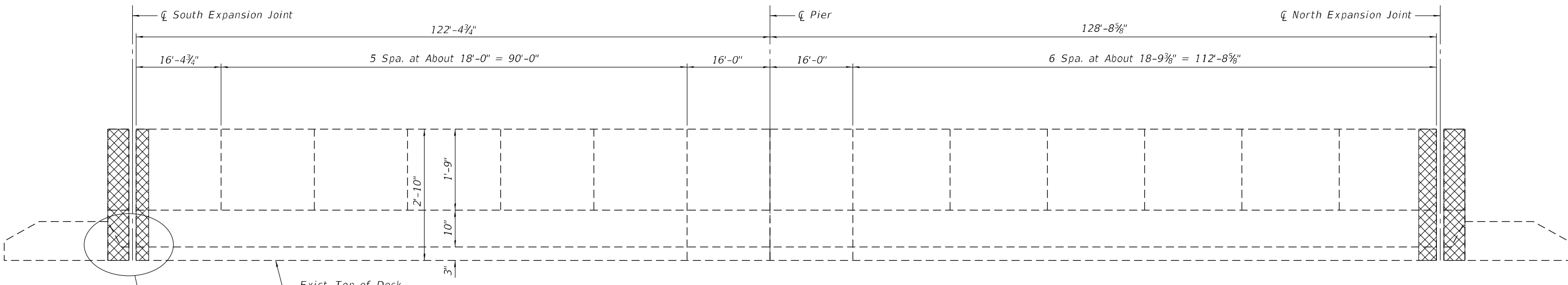
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			62P12	
ILLINOIS FED. AID PROJECT				



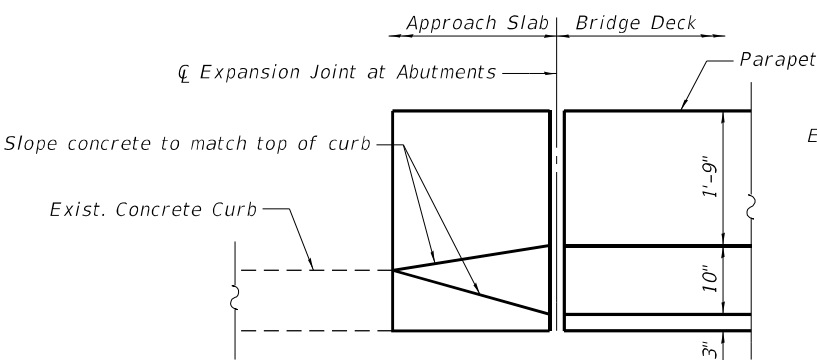
**EAST PARAPET ELEVATION**  
(Showing West Face)

See Parapet End Detail for end of parapet geometry, typ.

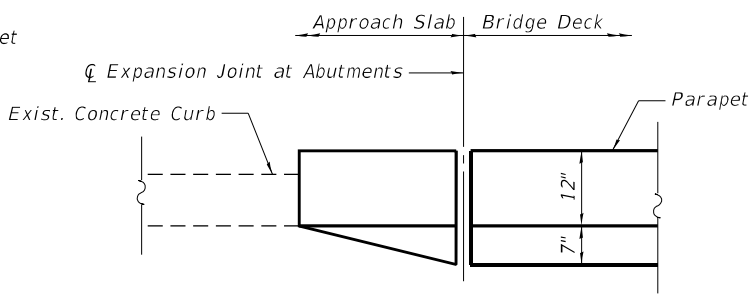


**WEST PARAPET ELEVATION**  
(Showing East Face)

See Parapet End Detail for end of parapet geometry, typ.



**PARAPET END DETAIL**  
**ELEVATION**  
(Inside Elevation of Parapet)



**PARAPET END DETAIL**  
**PLAN**

**LEGEND**

- Parapet to be Removed and Replaced (See Joint Removal & Replacement Sheets)
- Structural Repair of Concrete, Depth ≤ 5"
- Structural Repair of Concrete, Depth > 5"

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Epoxy Crack Injection	Foot	23.0
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	50.0
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	10.0

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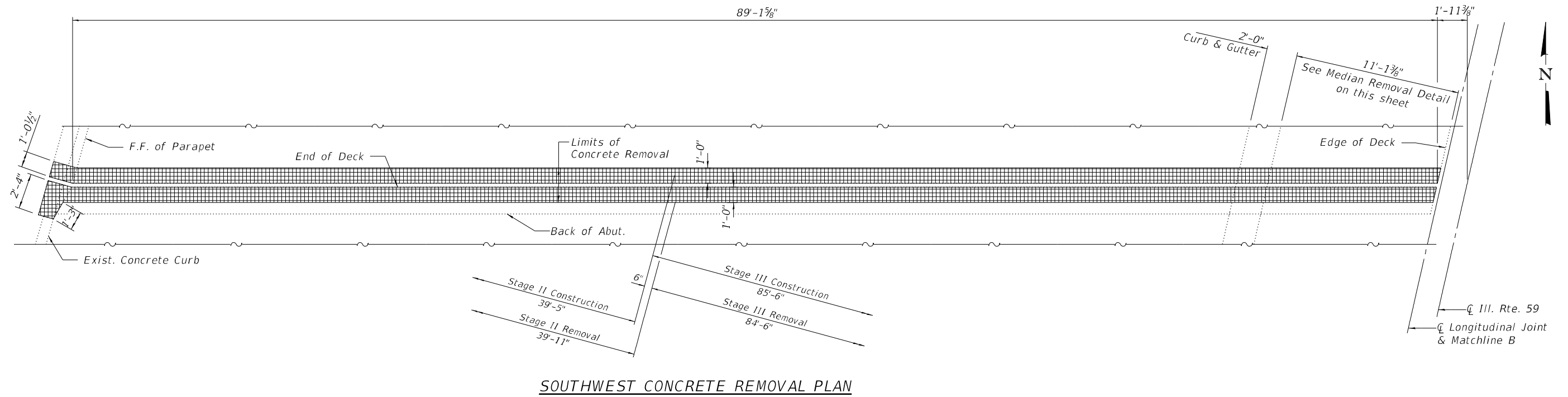
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PARAPET REPAIR**  
**STRUCTURE NO. 016-2599**

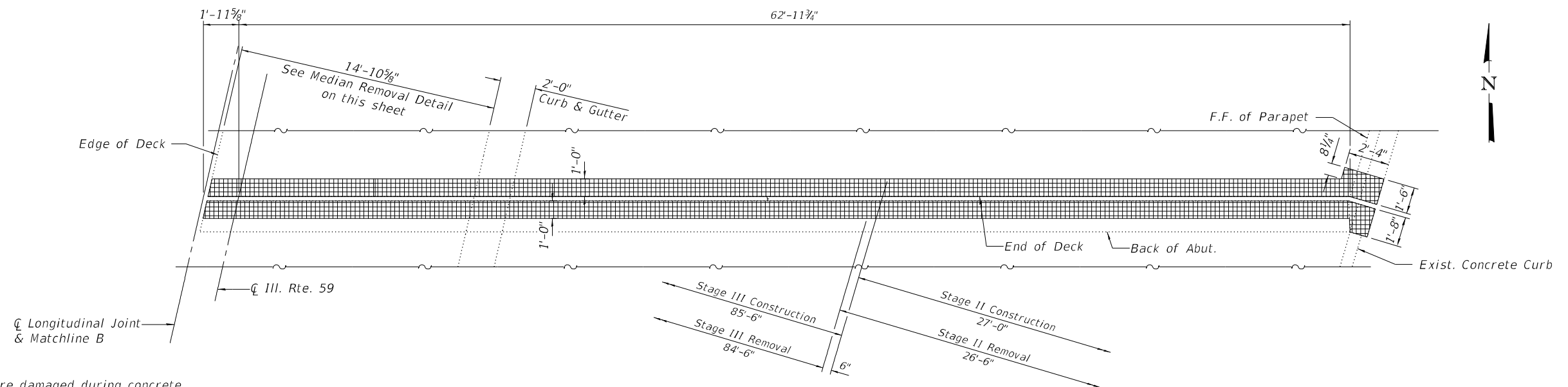
SHEET 11 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2021-075-BDR&BJR	COOK	86	47
CONTRACT NO.			62P12	
ILLINOIS FED. AID PROJECT				

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**SOUTHWEST CONCRETE REMOVAL PLAN**



**SOUTHEAST CONCRETE REMOVAL PLAN**

**Notes:**

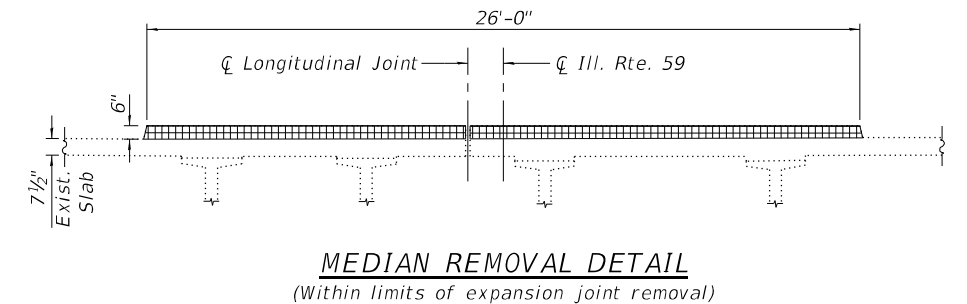
Any reinforcement bars that are damaged during concrete removal operation shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Existing transverse, longitudinal, and vertical reinforcements remaining and extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.

See Sheet 16 of 32 for Bill of Material, bar details and sections.

For Overlay details see cross sections on sheets 5 and 6 of 32.

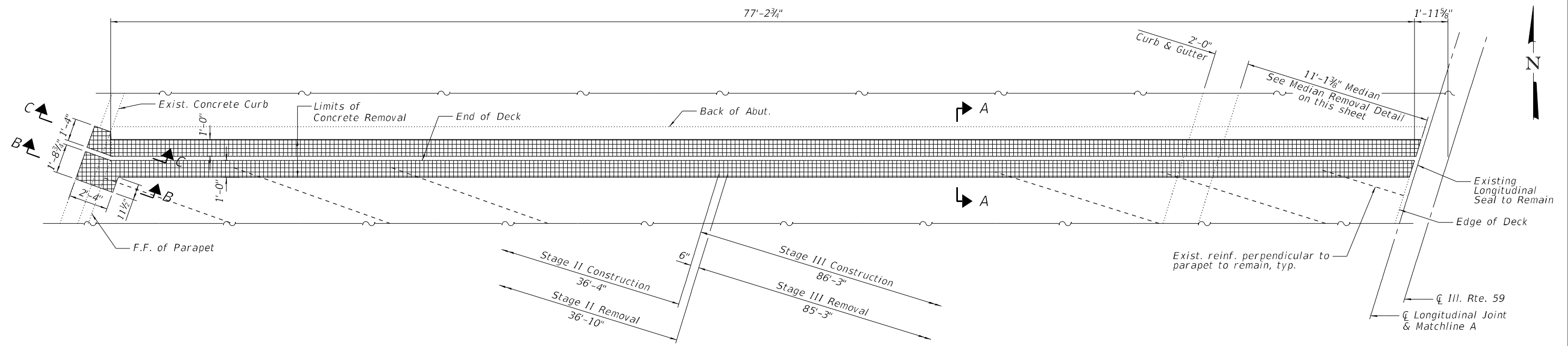
See Sheet 17 of 32 for joint seal details.



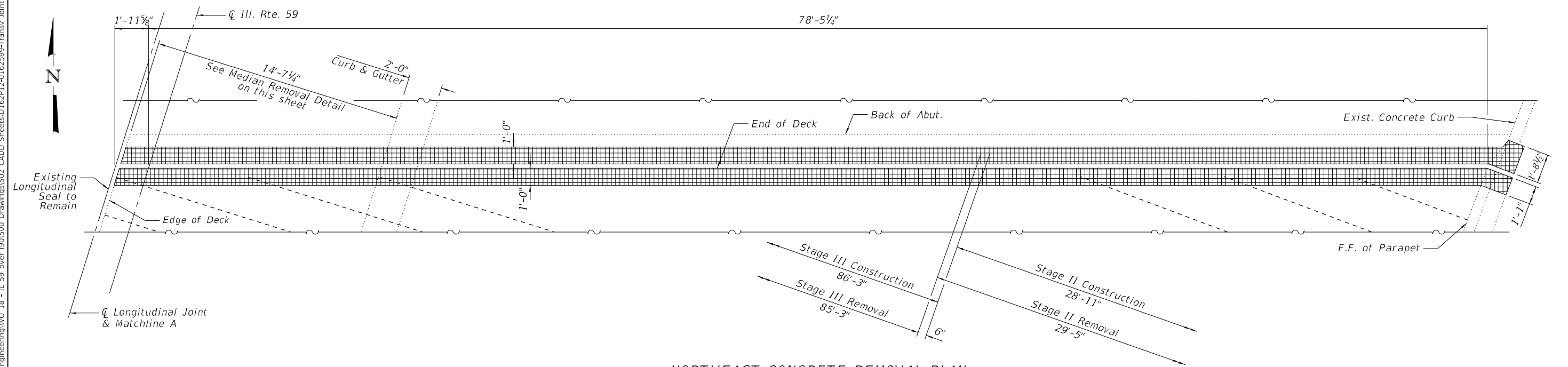
**MEDIAN REMOVAL DETAIL**  
 (Within limits of expansion joint removal)

	USER NAME = atiemann	DESIGNED - AT, JK	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>JOINT REMOVAL LIMITS - SOUTH ABUTMENT</b> <b>STRUCTURE NO. 016-2599</b>	F.A.P. RTE. 338	SECTION 2021-075-BDR&BJR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 48
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	PLOT DATE = 01/29/2024	CHECKED - AJN	REVISED -			ILLINOIS FED. AID PROJECT				





**NORTHWEST CONCRETE REMOVAL PLAN**



**NORTHEAST CONCRETE REMOVAL PLAN**

**Notes:**

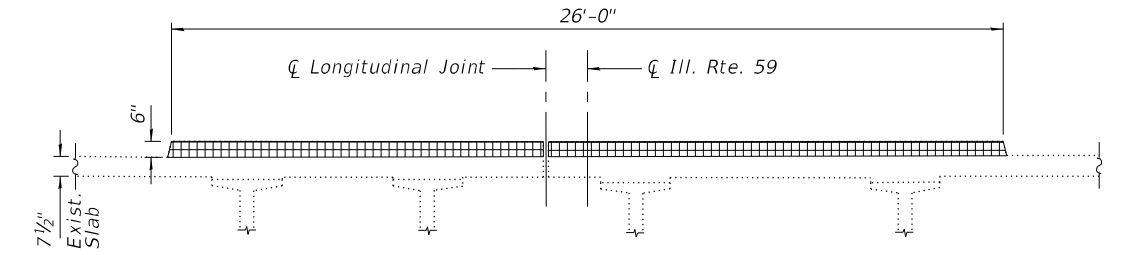
Any reinforcement bars that are damaged during concrete removal operation shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Existing transverse, longitudinal, and vertical reinforcements remaining and extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.

See Sheet 16 of 32 for Bill of Material, bar details and sections.

For Overlay details see cross sections on sheets 5 and 6 of 32.

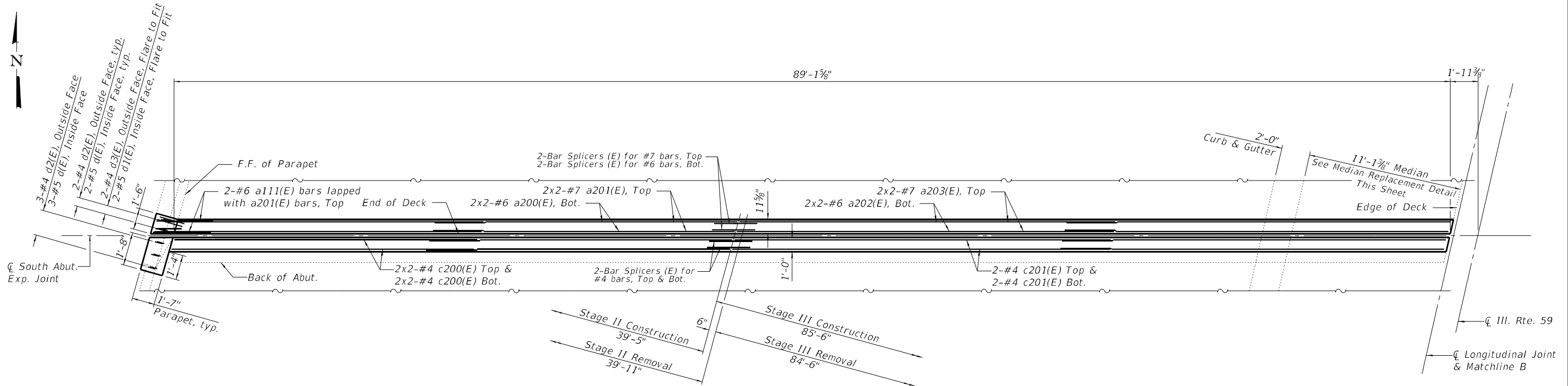
See Sheet 17 of 32 for joint seal details.



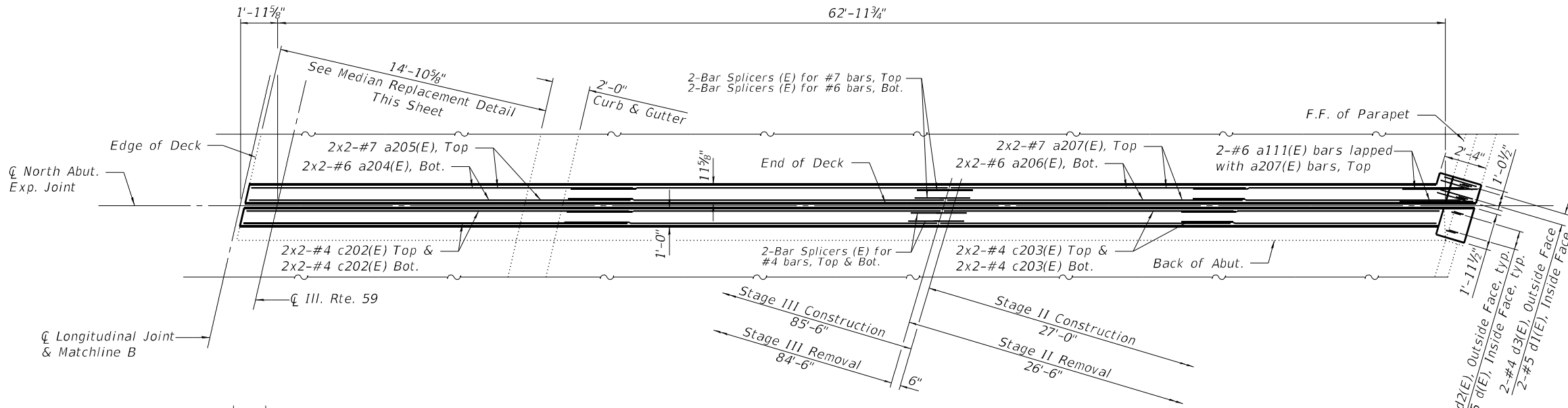
**MEDIAN REMOVAL DETAIL**  
(Within limits of expansion joint removal)

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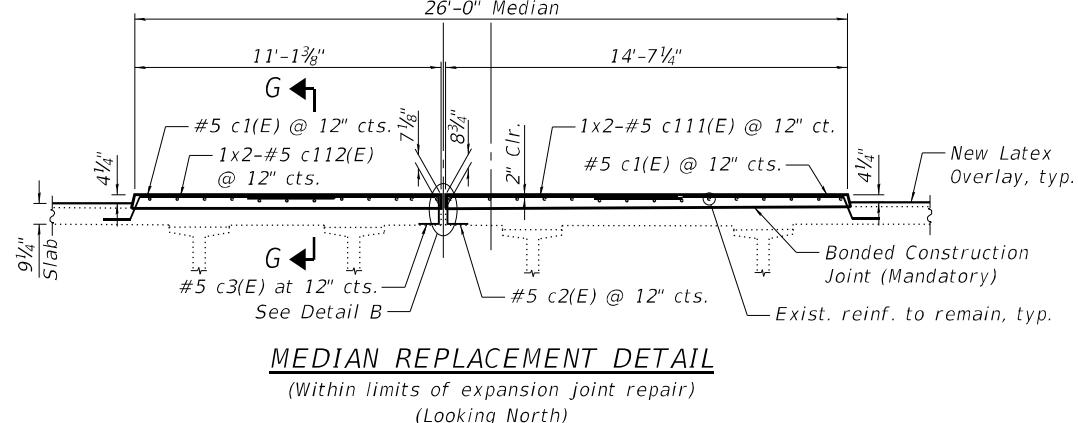
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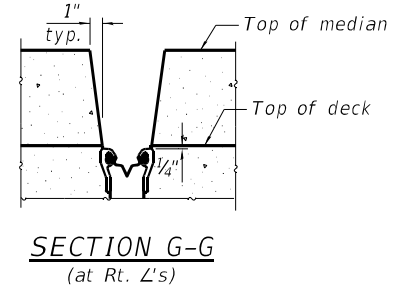
**SOUTHWEST CONCRETE REPAIR PLAN**



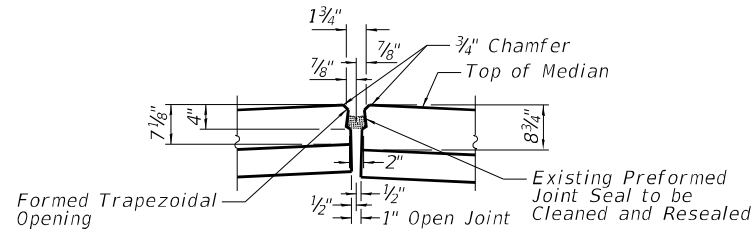
**SOUTHEAST CONCRETE REPAIR PLAN**



**MEDIAN REPLACEMENT DETAIL**  
(Within limits of expansion joint repair)  
(Looking North)



**SECTION G-G**  
(at Rt. L's)



**DETAIL B**

**MIN. LAP LENGTH**

#4 bar	- 3'-0"
#5 bar	- 3'-6"
#6 bar	- 4'-0"
#7 bar	- 5'-0"

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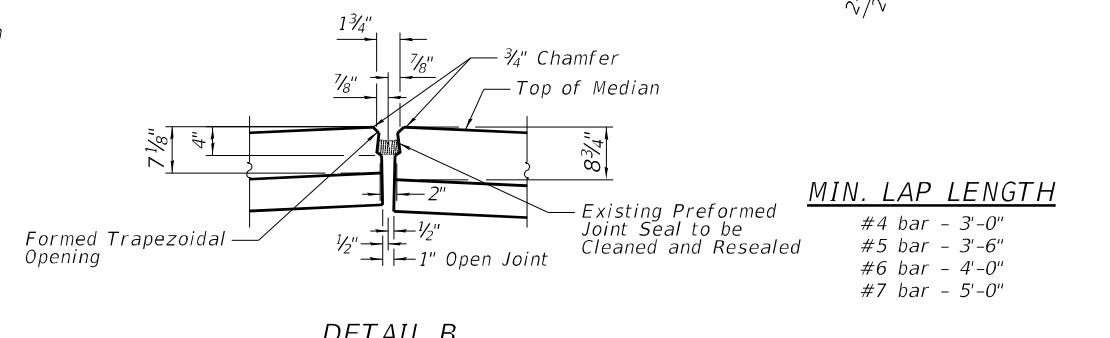
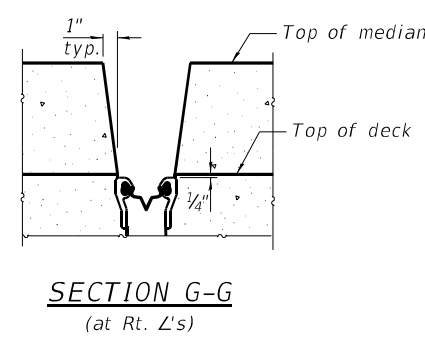
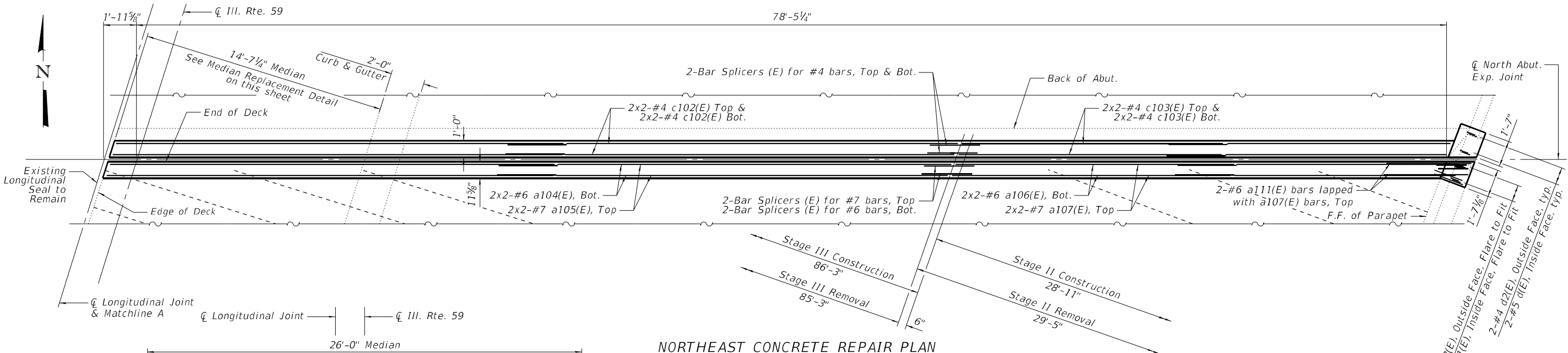
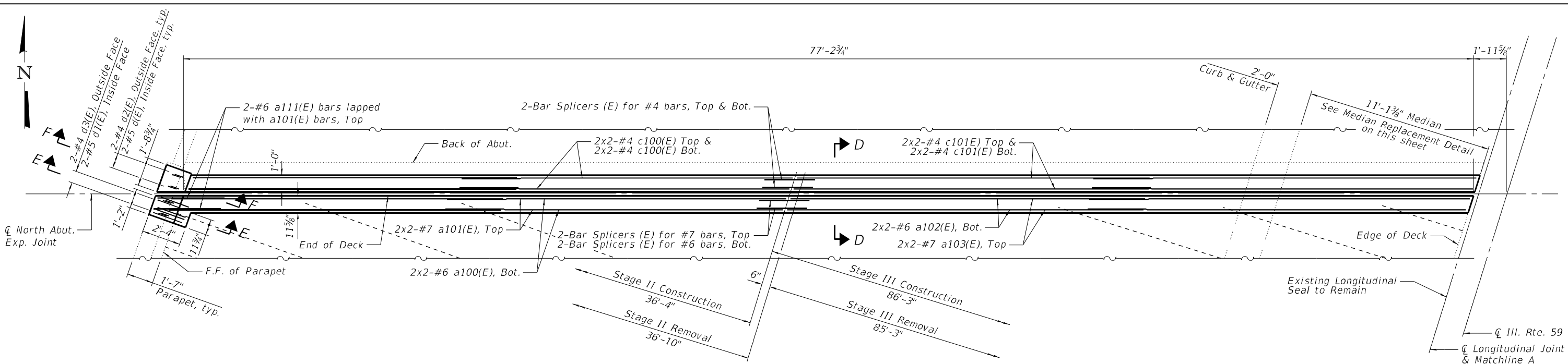
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**JOINT REPAIR LIMITS - SOUTH ABUTMENT  
STRUCTURE NO. 016-2599**

SHEET 14 OF 32 SHEETS

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ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**JOINT REPAIR LIMITS - NORTH ABUTMENT  
 STRUCTURE NO. 016-2599**

SHEET 15 OF 32 SHEETS

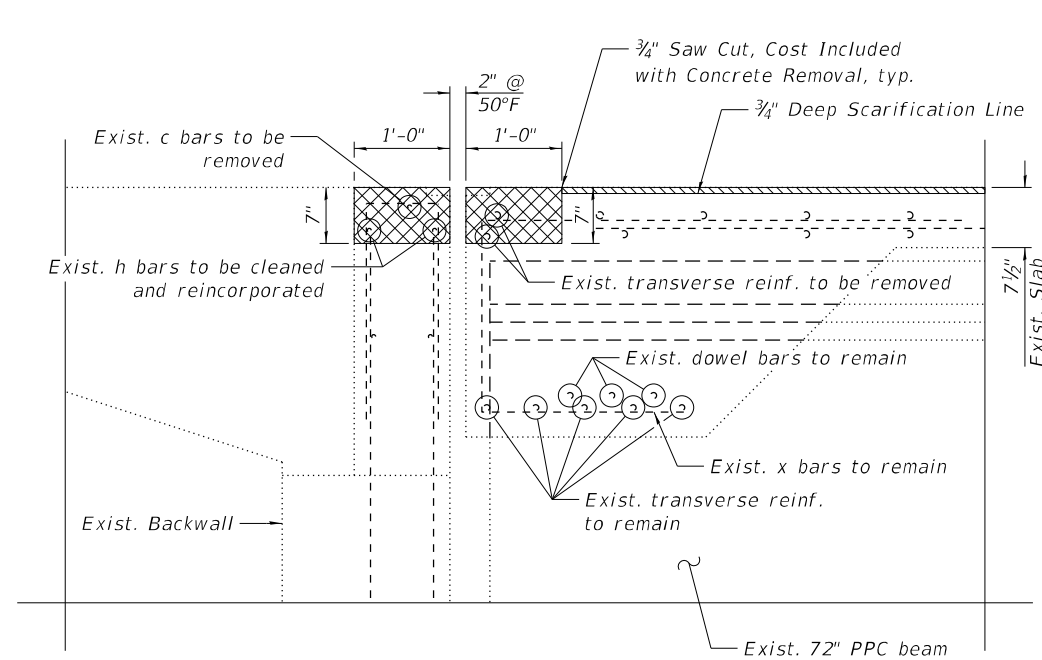
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338	2021-075-BDR&BJR	COOK	86	51
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				

**BILL OF MATERIAL**

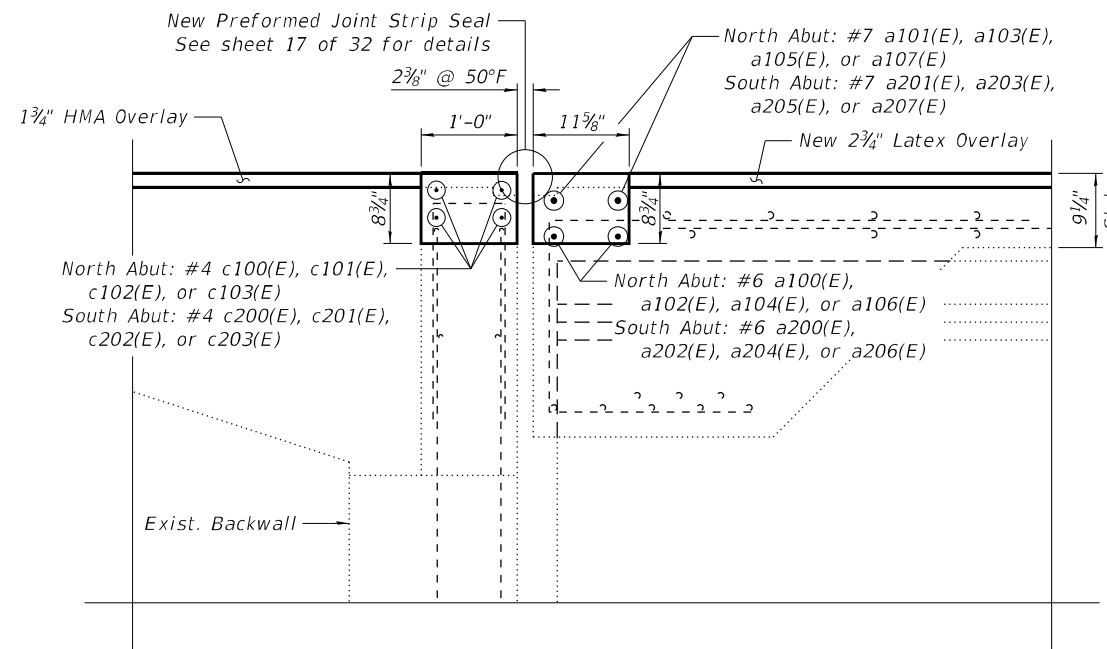
Bar	No.	Size	Length	Shape
a100(E)	4	#6	20'-6"	—
a101(E)	4	#7	21'-0"	—
a102(E)	4	#6	22'-3"	—
a103(E)	4	#7	22'-9"	—
a104(E)	4	#6	27'-3½"	—
a105(E)	4	#7	27'-9½"	—
a106(E)	4	#6	16'-11½"	—
a107(E)	4	#7	17'-5½"	—
a111(E)	8	#6	4'-0"	—
a200(E)	4	#6	22'-1"	—
a201(E)	4	#7	22'-7"	—
a202(E)	4	#6	26'-9"	—
a203(E)	4	#7	27'-3"	—
a204(E)	4	#6	20'-9½"	—
a205(E)	4	#7	21'-3½"	—
a206(E)	4	#6	15'-9"	—
a207(E)	4	#7	16'-3"	—
c1(E)	16	#5	2'-11"	┌
c2(E)	8	#5	2'-7"	┌
c3(E)	8	#5	2'-5"	┌
c100(E)	8	#4	19'-7"	—
c101(E)	8	#4	21'-9"	—
c102(E)	8	#4	26'-10½"	—
c103(E)	8	#4	16'-0"	—
c111(E)	16	#5	8'-10½"	—
c112(E)	16	#5	7'-2"	—
c200(E)	8	#4	21'-1½"	—
c201(E)	8	#4	26'-2½"	—
c202(E)	8	#4	20'-3½"	—
c203(E)	8	#4	14'-9"	—
d(E)	17	#5	3'-0"	L
d1(E)	8	#5	2'-7"	└
d2(E)	17	#4	3'-0"	L
d3(E)	8	#4	3'-5"	└
Concrete Superstructure		Cu. Yd.	20.1	
Concrete Removal		Cu. Yd.	16.7	
Bar Splicers		Each	32	
Reinforcement Bars, Epoxy Coated		Pound	3900	

Bars indicated thus 1 x 2 -#5 etc. indicates 1 line of bars with 2 lengths per line.

Note:  
The lighting conduits located inside the parapets must be protected and maintained during the parapet removal and reconstruction work at bridge expansion joints.



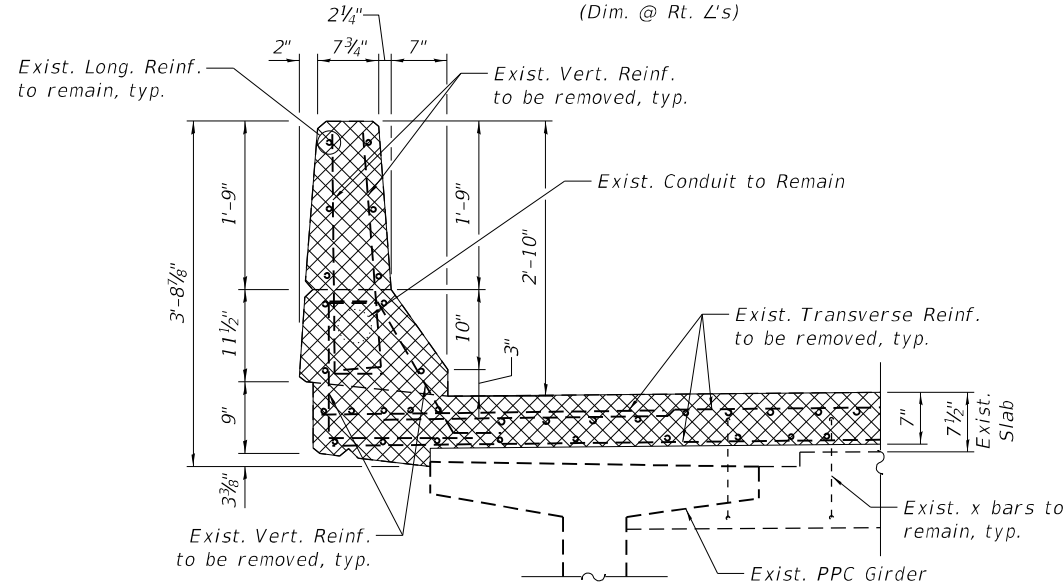
**SECTION A-A**  
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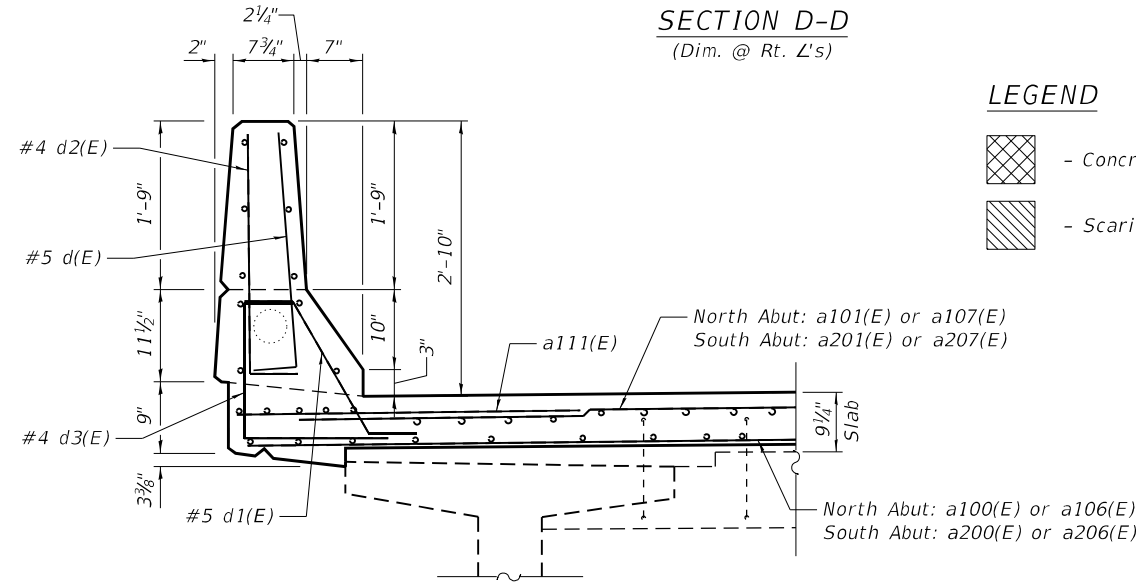
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**LEGEND**

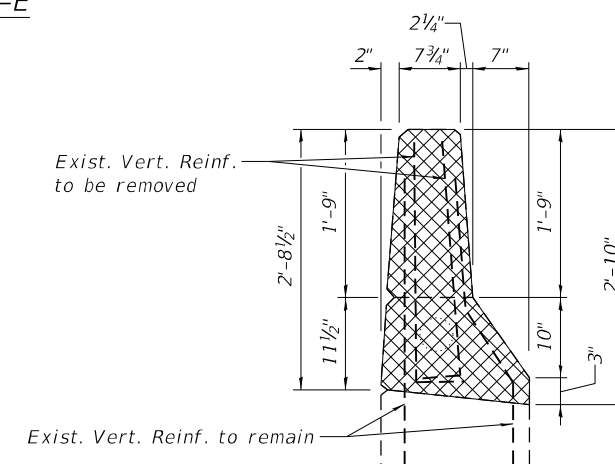
- Concrete Removal
- Scarification



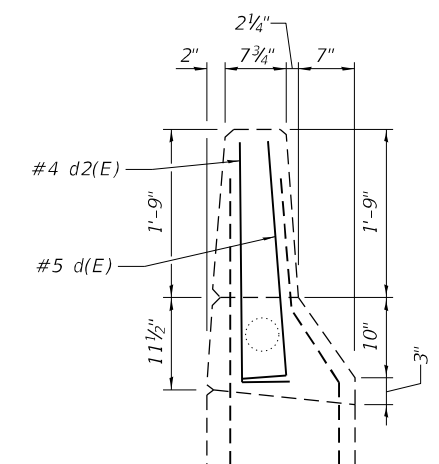
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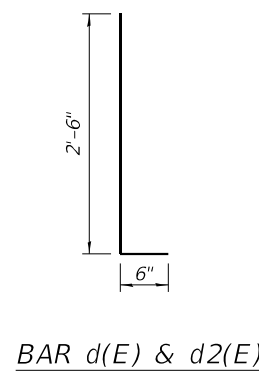
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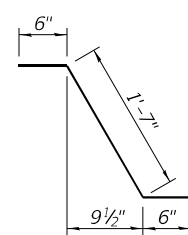
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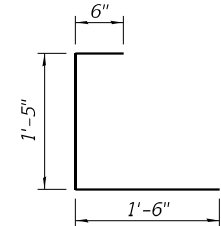
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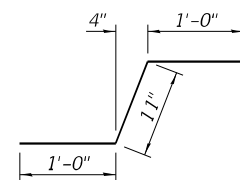
**BAR d(E) & d2(E)**



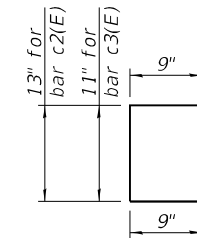
**BAR d1(E)**



**BAR d3(E)**



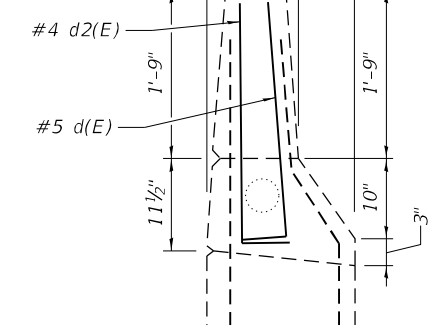
**BAR c1(E)**



**BAR c2(E) & c3(E)**



**BAR c2(E) & c3(E)**



**BAR c2(E) & c3(E)**

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**Bowman**  
311 S. Wacker Drive, Suite 1950  
Chicago, Illinois 60606  
312-464-0800  
www.bowman.com

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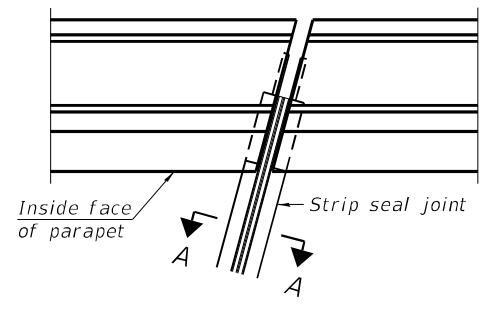
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT DETAILS**  
**STRUCTURE NO. 016-2599**

SHEET 16 OF 32 SHEETS

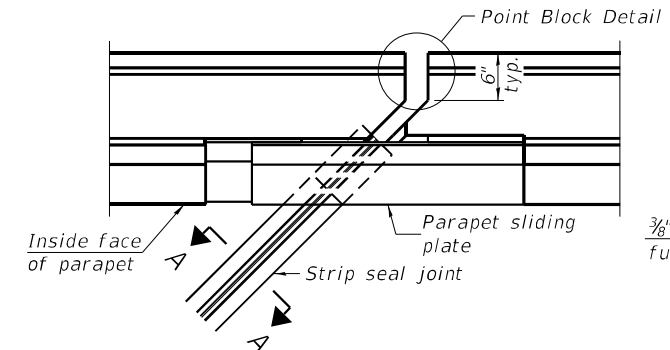
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338	2021-075-BDR&BJR	COOK	86	52
CONTRACT NO.			62P12	
ILLINOIS FED. AID PROJECT				

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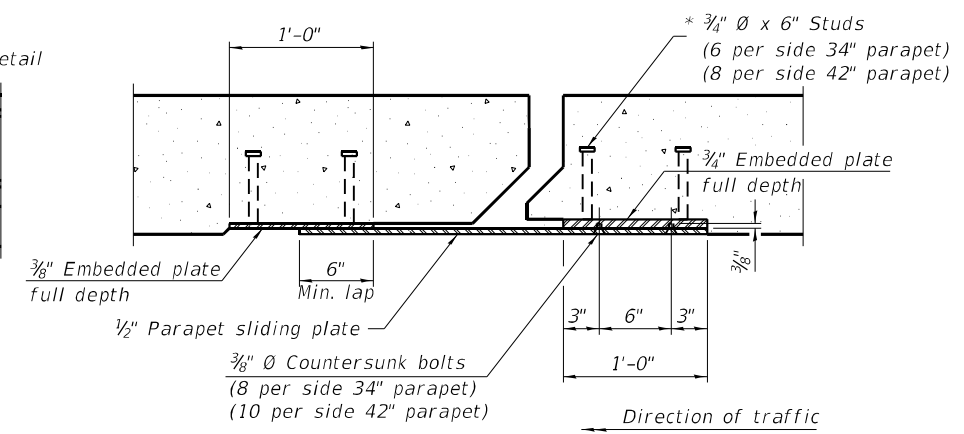


FOR SKEWS  $\leq 30^\circ$

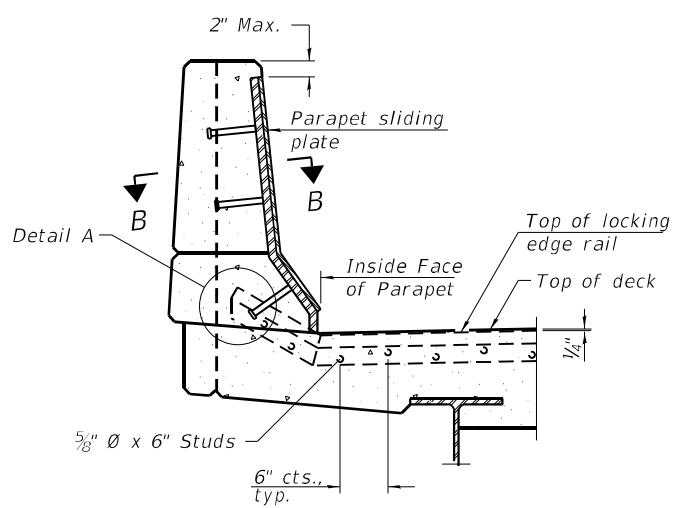
**PLAN AT PARAPET**



FOR SKEWS  $> 30^\circ$

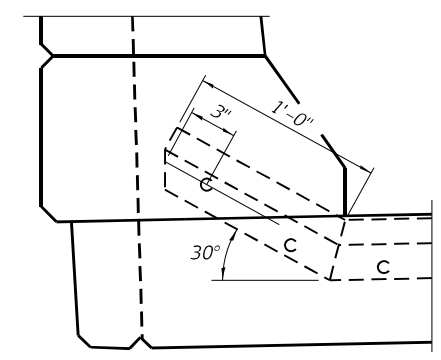


**SECTION B-B**

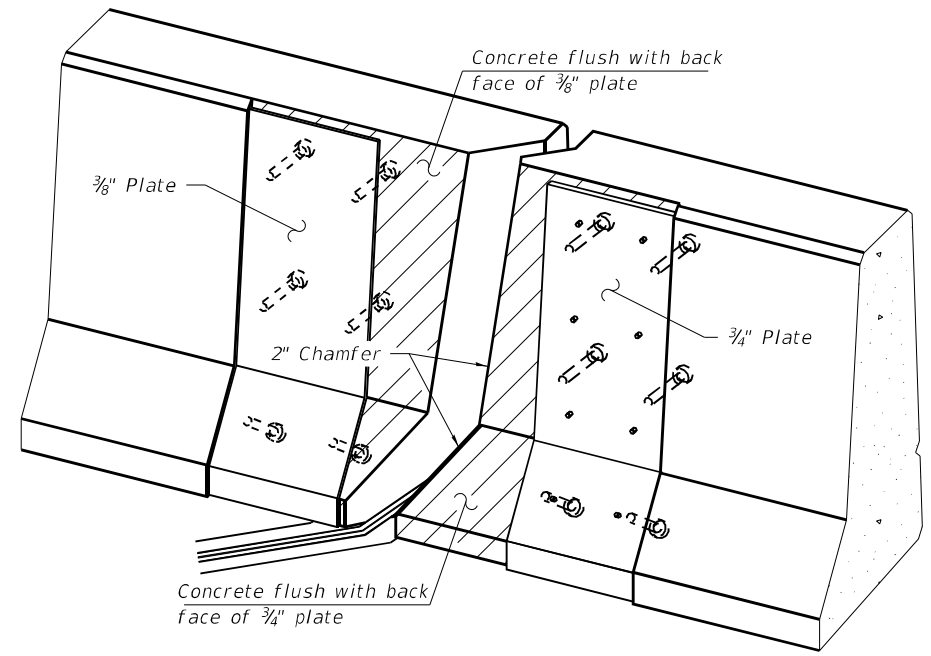


**ELEVATION AT PARAPET**

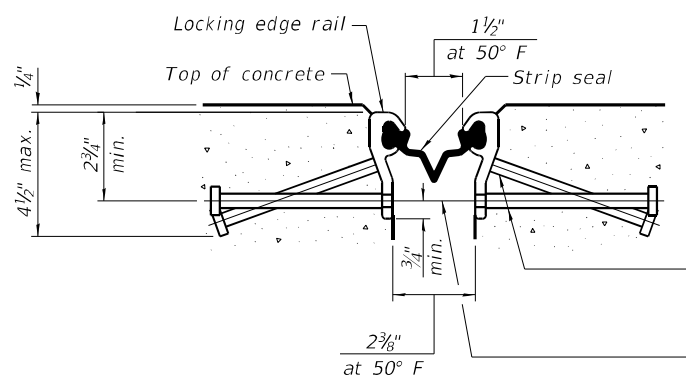
(Skews  $> 30^\circ$  shown. Skews  $\leq 30^\circ$  similar except as shown in plan view.)



**DETAIL A**



**TRIMETRIC VIEW**  
(Showing embedded plates only)

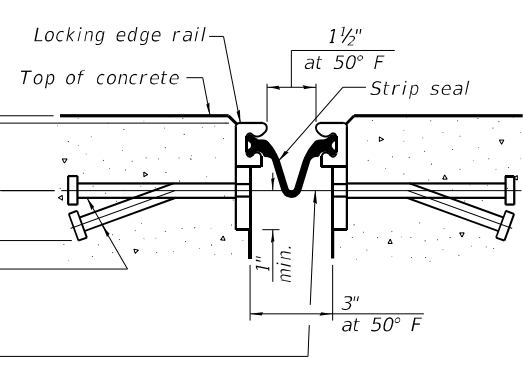


**SHOWING ROLLED RAIL JOINT**

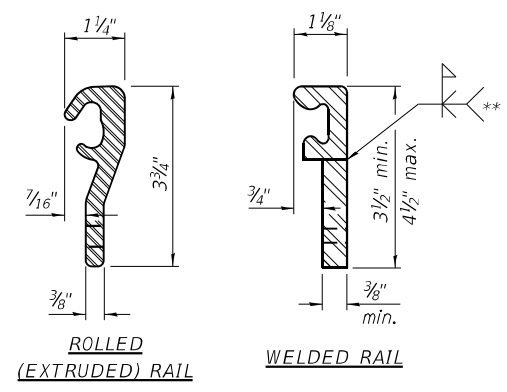
\*  $5/8"$   $\phi$  x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
 $3/8"$   $\phi$  threaded rods in  $7/16"$   $\phi$  holes at  $\pm 4'-0"$  cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

**SECTION A-A**

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

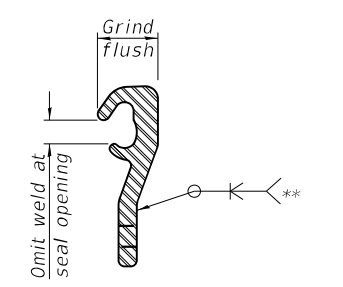


**SHOWING WELDED RAIL JOINT**



**LOCKING EDGE RAILS**

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



**LOCKING EDGE RAIL SPLICE**

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

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	316

EJ-SS

8-11-17



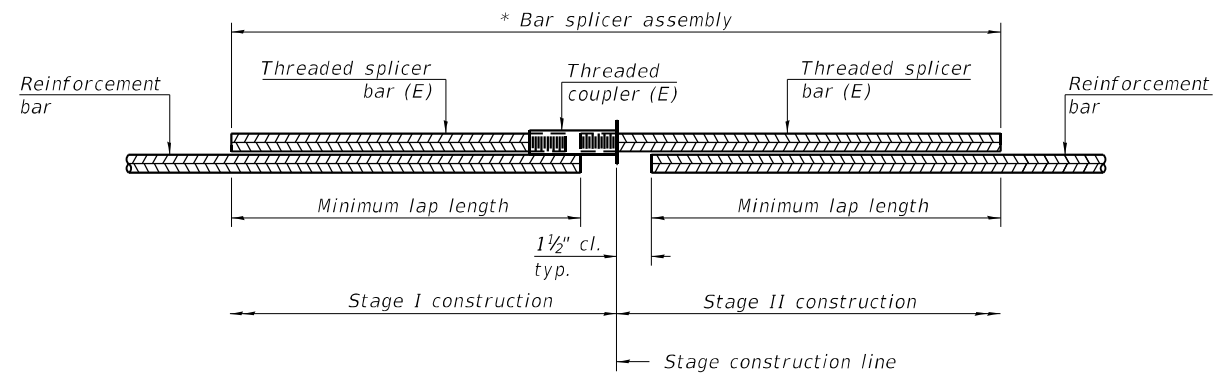
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PLOT SCALE =		CHECKED -	AJN	REVISED -	
PLOT DATE =	01/29/2024	DRAWN -	AT, JK	REVISED -	
		CHECKED -	AJN	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL  
STRUCTURE NO. 016-2599**

SHEET 17 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2021-075-BDR&BJR	COOK	86	53
CONTRACT NO.			62P12	
ILLINOIS FED. AID PROJECT				



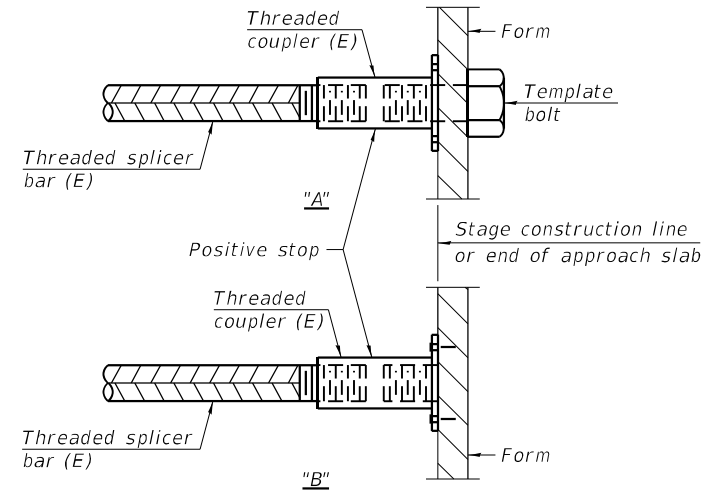
**STANDARD BAR SPLICER ASSEMBLY PLAN**

(All components shall be provided from one supplier)

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

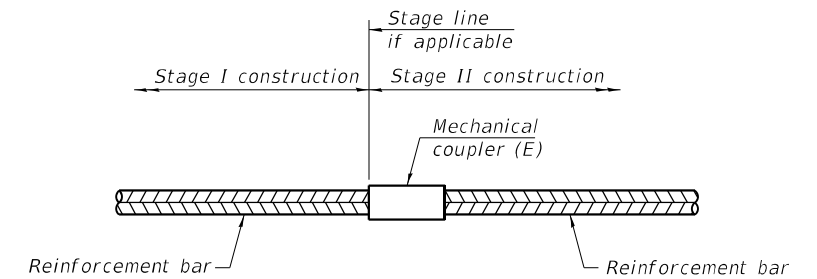
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
North Hatchblock	#4	8	1'-10"
North Deck	#6	4	2'-9"
North Deck	#7	4	3'-2"
South Hatchblock	#4	8	1'-10"
South Deck	#6	4	2'-9"
South Deck	#7	4	3'-2"



**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

MODEL: Default  
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BSD-1

1-1-2020



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		CHECKED -	AJN	REVISED -	
PLOT SCALE =		DRAWN -	AT, JK	REVISED -	
PLOT DATE =	01/29/2024	CHECKED -	AJN	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

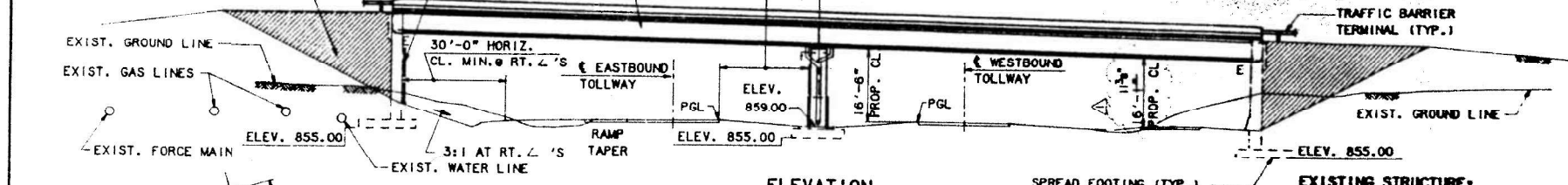
**BAR SPLICER ASSEMBLY DETAILS  
 STRUCTURE NO. 016-2599**

SHEET 18 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2021-075-BDR&BJR	COOK	86	54
CONTRACT NO.			62P12	
ILLINOIS FED. AID PROJECT				

T.B.M. #54- CHISELED CROSS TOP OF WEST 6' CONG. WALK OF RTE. 59 BRIDGE OVER INTERSTATE 90 AT SOUTH END OF WALK. 2.25' N. OF S. END 2.75' W. OF EAST FACE OF WEST WALK ELEV. 888.16.

THIS PORTION OF EMBANKMENT BACKFILL BY BRIDGE CONTRACTOR AFTER ABUT. IS IN PLACE (TYP.)

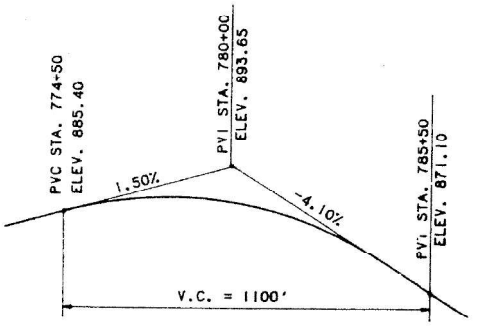


**LEGEND**

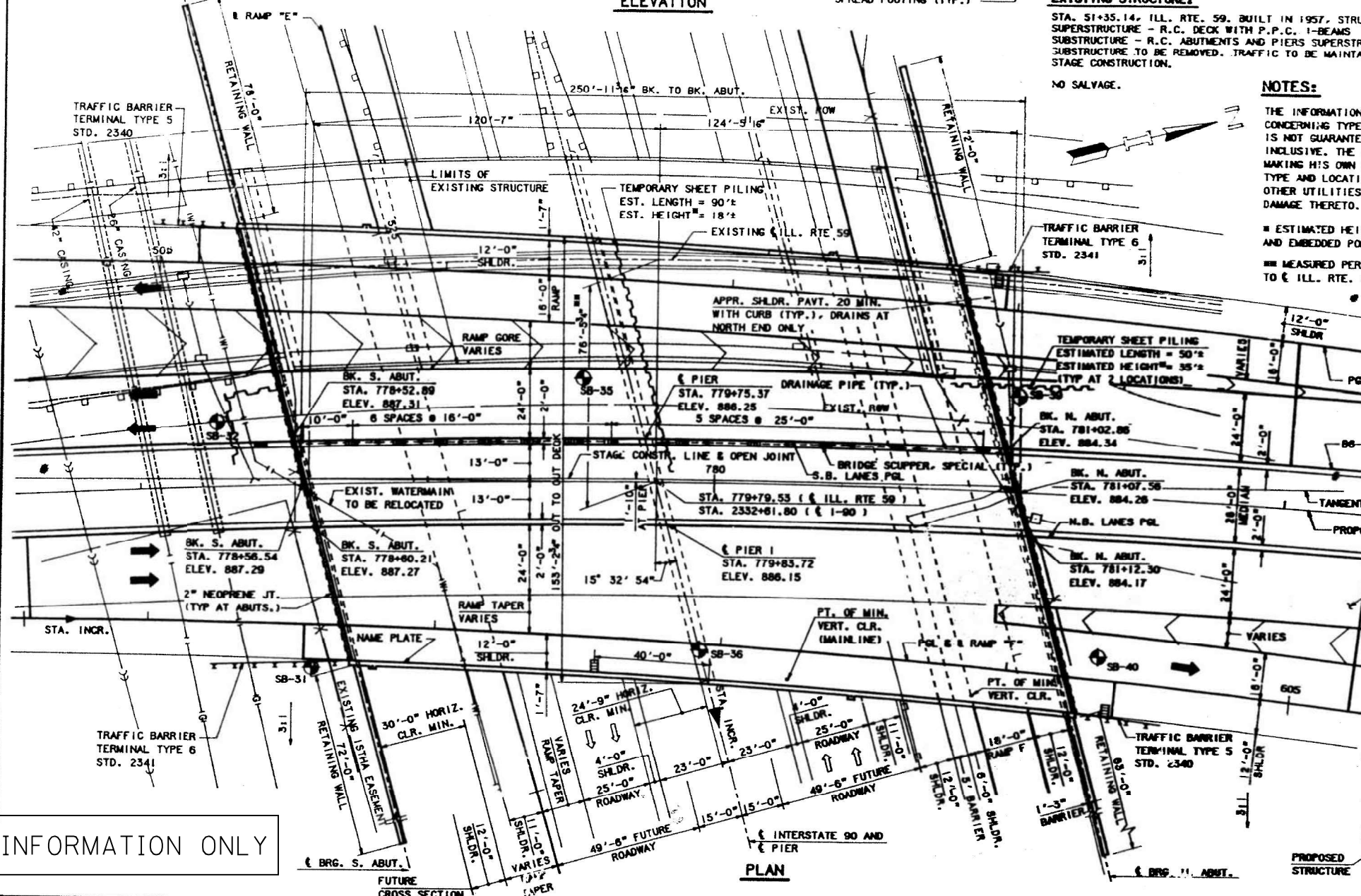
- SOIL BORING
- STORM SEWER
- SANITARY SEWER (FORCE MAIN)
- WATER LINE
- GAS LINE
- LIGHT POLE SUPPORT
- EXISTING GUARDRAIL
- EXISTING FENCE

STATION	S. EDGE EB PAVEMENT	N. EDGE WB PAVEMENT
2330+00	860.16	859.90
2331+00	860.41	860.22
2332+00	860.67	860.49
2333+00	860.83	860.73
2334+00	860.76	860.71
2335+00	860.55	860.47

EXISTING PROFILE - F.A.I. RTE. 90



PROFILE GRADE - ILL. RTE 59



**EXISTING STRUCTURE:**

STA. 51+35.14, ILL. RTE. 59, BUILT IN 1957, STRUCTURE NO. 016-0390. SUPERSTRUCTURE - R.C. DECK WITH P.P.C. I-BEAMS. SUBSTRUCTURE - R.C. ABUTMENTS AND PIERS SUPERSTRUCTURE AND SUBSTRUCTURE TO BE REMOVED. TRAFFIC TO BE MAINTAINED UTILIZING STAGE CONSTRUCTION.

NO SALVAGE.

**NOTES:**

THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

- ESTIMATED HEIGHT INCLUDES EXPOSED PORTION AND EMBEDDED PORTION OF PILING.
- MEASURED PERPENDICULAR TO TANGENT TO ILL. RTE. 59 AT PIER.

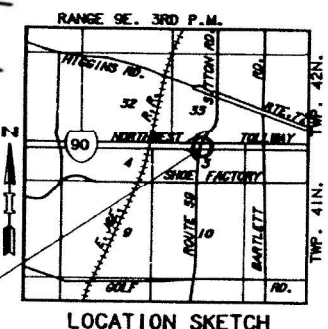
**DESIGN DATA**

- DESIGN STRESSES : SUBSTRUCTURE AND DECK  
 $f'_c = 3500$  PSI  
 REINFORCING STEEL  
 $f_y = 80,000$  PSI
- P.P.C. BEAMS  
 $f'_c = 6000$  PSI  
 $f'_c = 5000$  PSI  
 1/2" DIA. STR. (LOW RELAX)  
 $f'_s = 270,000$  PSI  
 $f'_s = 201,960$  PSI
- LOADING:  
 LIVE LOAD - HS20-44  
 DEAD LOAD - STRUCT. WT. + 25PSF FUTURE WEARING SURFACE
- DESIGN SPECIFICATIONS : 1989 AASHTO  
 CONSTRUCTION SPECIFICATIONS : ILLINOIS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JULY 1, 1988 AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JUNE 2, 1990.

I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES". THIS CERTIFICATION APPLIES TO DRAWINGS 221-256.



B. ROBERT TESSIATORE  
 P.E., S.E.  
 MY LICENSE EXPIRES NOV. 30, 1990



LOCATION SKETCH

FOR INFORMATION ONLY

DRAWN *CAD*  
 CHECKED *KGN*

DATE 11-1-90  
 SCALE NTS

**HNTB**  
 HOWARD NEEDLES TAMMEN & BERGENDOFF  
 ARCHITECTS ENGINEERS PLANNERS

**THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY**  
 EAST - WEST TOLLWAY AND MIDWEST ROAD  
 OAK BROOK, ILLINOIS 60521

NO.	DATE	REVISIONS DESCRIPTION
1	5-20-94	REVISED RAMP F PROFILE

CONTRACT MIP-90-455  
**GENERAL PLAN**  
 ILL. RTE 59 OVER NW TOLLWAY

DRAWING NO.  
 213 OF 380



USER NAME	DESIGNED	CHECKED	DRAWN	DATE
atiemann	AT, JK	AJN	AT, JK	01/29/2024

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

APPLICABLE AS-BUILT PLANS  
 STRUCTURE NO. 016-2599

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2021-075-BDRS/BJR	COOK	86	55

CONTRACT NO. 62P12  
 ILLINOIS FED. AID PROJECT

GENERAL NOTES

- SEE SHEET NOS. 241, 242 & 243 FOR BORING DATA.
- ALL STRUCTURAL STEEL USED IN BEARING ASSEMBLIES AND SIDE RETAINERS SHALL BE PAINTED WITH THE ZINC SILICATE AND VINYL PAINT SYSTEM.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53, GRADE 60.
- REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.
- BARS INDICATED THIS 20x3-85 ETC. INDICATES 20 LINES OF BARS WITH 3 LENGTHS PER LINE.
- REINFORCEMENT BAR SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE UNLESS SHOWN OTHERWISE ON THE DRAWING:

CLASS 'C' SPLICE (F'c= 3500 psi)

SIZE	LAP (GRADE 60)
#4	1'-8"
#5	2'-2"
#6	2'-7"
#7	3'-5"

- DIMENSIONS, ELEVATIONS AND DETAILS PERTAINING TO THE EXISTING STRUCTURES WERE OBTAINED FROM THE ORIGINAL DESIGN PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND MAKE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR A CHANGE IN THE SCOPE OF WORK OR FOR ADDITIONAL COMPENSATION. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT BID PRICE FOR THE WORK.
- DURING STRUCTURE REMOVAL, CONTRACTOR SHALL PERFORM WORK IN SUCH A MANNER AS TO LEAVE EXISTING PAVEMENT AND REMAINING STRUCTURES UNHARMED AND IN PROPER CONDITION.

- THE CONTRACTOR'S ATTENTION IS CALLED TO SEVERAL SPECIFIC INCIDENTAL WORK ITEMS AS NOTED ON THE CONTRACT PLANS AND SPECIAL PROVISIONS. LISTED BELOW IS A LISTING OF THESE ITEMS FOR GENERAL INFORMATION ONLY. THE LIST IS NOT INTENDED TO BE ALL INCLUSIVE AND THEREFORE, THE CONTRACTOR IS RESPONSIBLE TO PERFORM ALL WORK ACCORDING TO THE PLANS, SPECIAL PROVISIONS AND THE STANDARD SPECIFICATIONS.
- THE INFORMATION SHOWN FOR THE TEMPORARY SHEET PILING IS ESTIMATED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A DESIGN OF THE TEMPORARY SHEET PILING AND ASSOCIATED MEMBERS, IF REQUIRED, SUBJECT TO THE APPROVAL OF THE ENGINEER.
- BRIDGE SEAT SEALER TO BE APPLIED TO BOTH ABUTMENT SEATS. SEE IDOT BRIDGE SPECIAL PROVISIONS.

TOTAL BILL OF MATERIAL

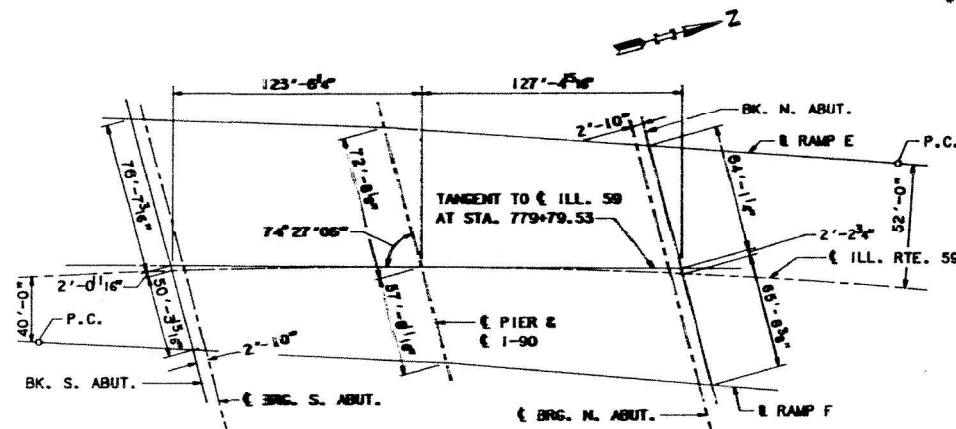
ITEM	UNIT	SUPER.	SUB.	RET. WALL	TOTAL
POROUS GRANULAR EMBANKMENT, SUBGRADE	CU. YD.		315		315
POROUS GRANULAR BACKFILL	CU. YD.		960	550	1510
REMOVAL OF EXISTING STRUCTURES	L. SUM				1
STRUCTURE EXCAVATION	CU. YD.		6740	4280	11020
PREFORMED JOINT SEAL 2 1/2"	LIN. FT.	247			247
NEOPRENE EXPANSION JOINT 2"	LIN. FT.	314			314
CLASS X CONCRETE SUPERSTRUCTURE	CU. YD.	1410			1410
PROTECTIVE COAT	SQ. YD.	4406			4460
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	42			42
CLASS X CONCRETE	CU. YD.		2049	773	2822
RUSTICATION FINISH	SQ. FT.		5190	3170	8360
REINFORCEMENT BARS	LB.		64980	28540	93520
REINFORCEMENT BARS, EPOXY COATED	LB.	298840	149020		487930
TEMPORARY SHEET PILING	SQ. FT.		5120		5120
NAME PLATES	EACH		1		1
PIPE UNDERDRAINS FOR STRUCTURES 6"	LIN. FT.		325	295	620
DRAINAGE SCUPPER (SPECIAL)	EACH	13			13
DRAINAGE SYSTEM	L. SUM				1
BRIDGE SEAT SEALER	L. SUM				1
PROTECTIVE SHIELD	SQ. YD.	3950			3950
GEOCOMPOSITE WALL DRAIN	SQ. YD.		890	480	1370
FURNISHING AND ERECTING PRECAST, PRESTRESSED CONCRETE I-BEAMS, 72"	LIN. FT.	5183			5183

HORIZONTAL CURVE DATA

	ILL. RTE. 59	RAMP E	RAMP F
P.C. STA.	770+00.00	500+00.00	600+00.00
P.I. STA.	779+98.66	503+23.37	603+23.62
P.T. STA.	789+53.47	506+45.21	606+45.62
Δ	29° 20' 48.4"	9° 40' 05"	9° 54' 54.4"
D	1° 30' 8.2"	1° 29' 54.4"	1° 32' 8.7"
R	3813.90'	3825.72'	3730.83'
T	998.66'	323.37'	323.62'
L	1953.47'	645.21'	645.62'
E	128.58'	13.65'	14.01'
S.E.	0.0208 1/1"		

RAMP E STA. 500+00.00 = ILL. RTE. 59 STA. 783+00.00  
 RAMP F STA. 600+00.00 = ILL. RTE. 59 STA. 777+00.00

ITEM	INCIDENTAL WORK ITEM
REMOVAL OF EXISTING STRUCTURES	PILE REMOVAL 3'-6" BELOW NEW FOOTINGS
CLASS X CONCRETE SUPERSTRUCTURE	HANGERS & INSERTS FOR 2" CONDUIT CORK JOINT FILLER & SEALING COMPOUND ANCHOR BOLTS, CONDUIT AND LEVELLING PLATE (FOR LIGHT SUPPORTS)
CLASS X CONCRETE	1" Øx18" DOWELS 4" Ø P.V.C. PIPE SLEEVES 1/2" ELASTOMERIC BEARING PADS 6" NON-METALLIC WATER SEAL 1/2" PREMOLED JOINT FILLER BONDED CONSTRUCTION JOINTS
ELASTOMERIC BEARING BEARING ASSEMBLY TYPE I	FURNISH & INSTALL SIDE RETAINERS
PIPE UNDERDRAIN FOR STRUCTURE	GEO TECHNICAL FILTER FABRIC CA-7, CA-11 OR CA-13 INSIDE FILTER FABRIC.
RUSTICATION FINISH	GROUTING AT BARRIER WALL.
FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 72"	TEMPORARY BRACING FOR P.P.C. I-BEAMS.



LAYOUT SKETCH

FOR INFORMATION ONLY

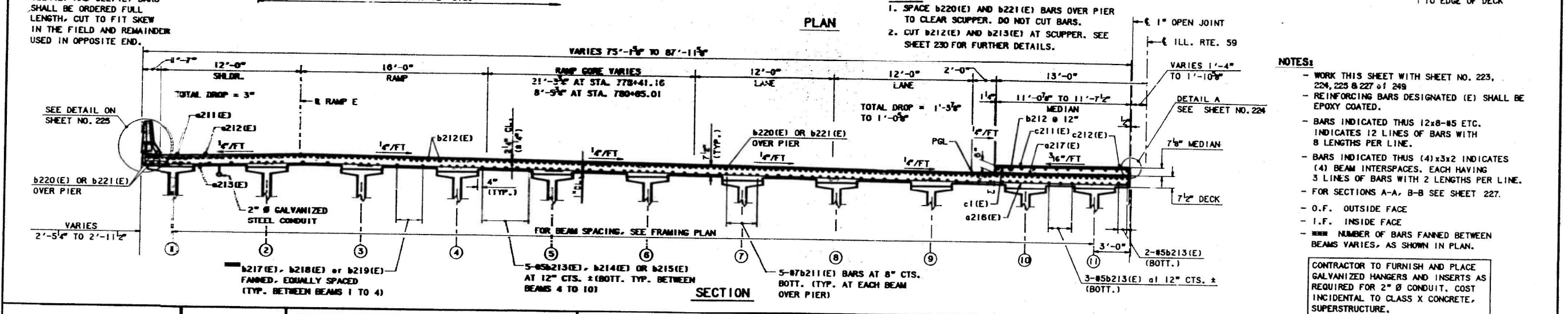
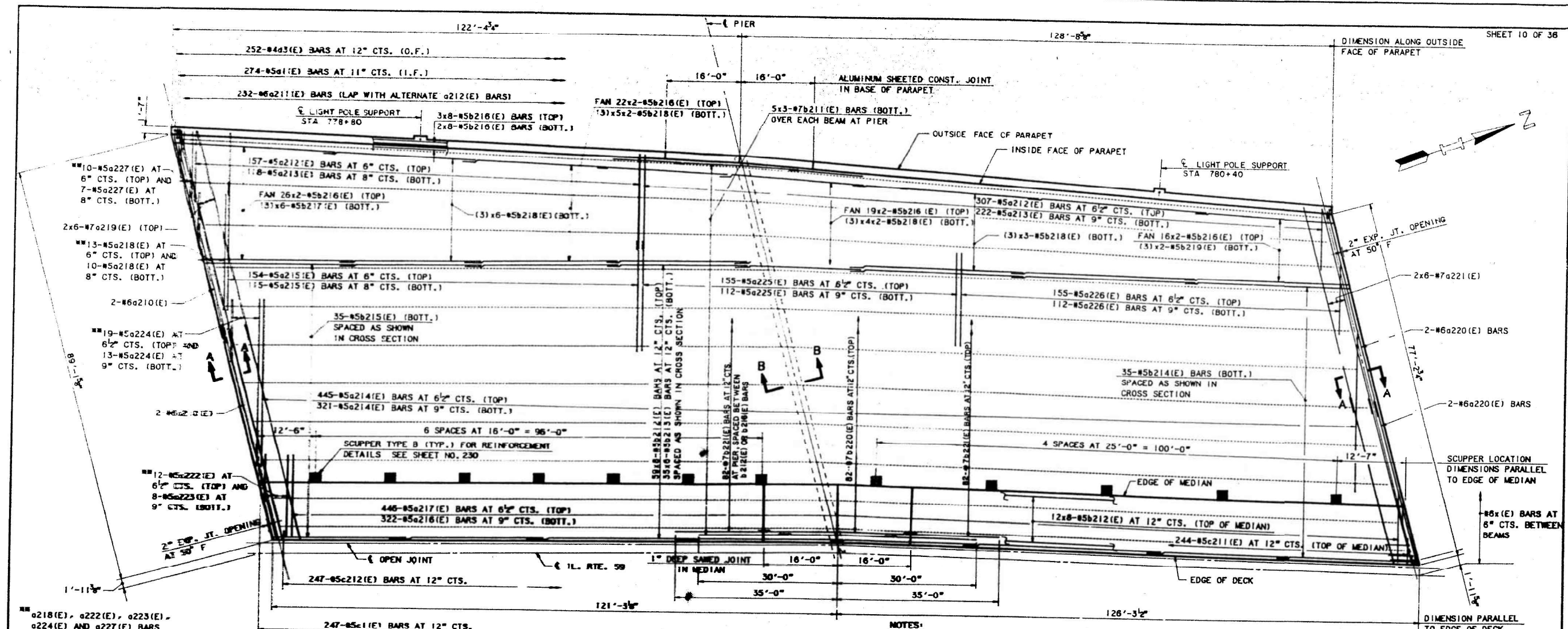
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CHECKED <u>KGN</u>	SCALE <u>NONE</u>				GENERAL NOTES & QUANTITIES ILL. RTE. 59 OVER NW TOLLWAY	214 of 380

MODEL: As-Built 2  
 FILE NAME: P:\040058-01-002 (ENG) - PTB\_195-016 Phase II Var VanEngineering\WO 18 - IL 59 over 1901500 Drawings\502 CADD Sheets\162P12-01.62595-As Buils.dgn  
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311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606 312-464-0860 www.bowman.com	USER NAME = <u>atiemann</u>	DESIGNED - <u>AT, JK</u>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	APPLICABLE AS-BUILT PLANS STRUCTURE NO. 016-2599	F.A.P. RTE. <u>338</u>	SECTION <u>2021-075-BDRS/BJR</u>	COUNTY <u>COOK</u>	TOTAL SHEETS <u>86</u>	SHEET NO. <u>56</u>
	PLOT SCALE =	DRAWN - <u>AT, JK</u>	REVISED -			SHEET 20 OF 32 SHEETS	ILLINOIS FED. AID PROJECT			



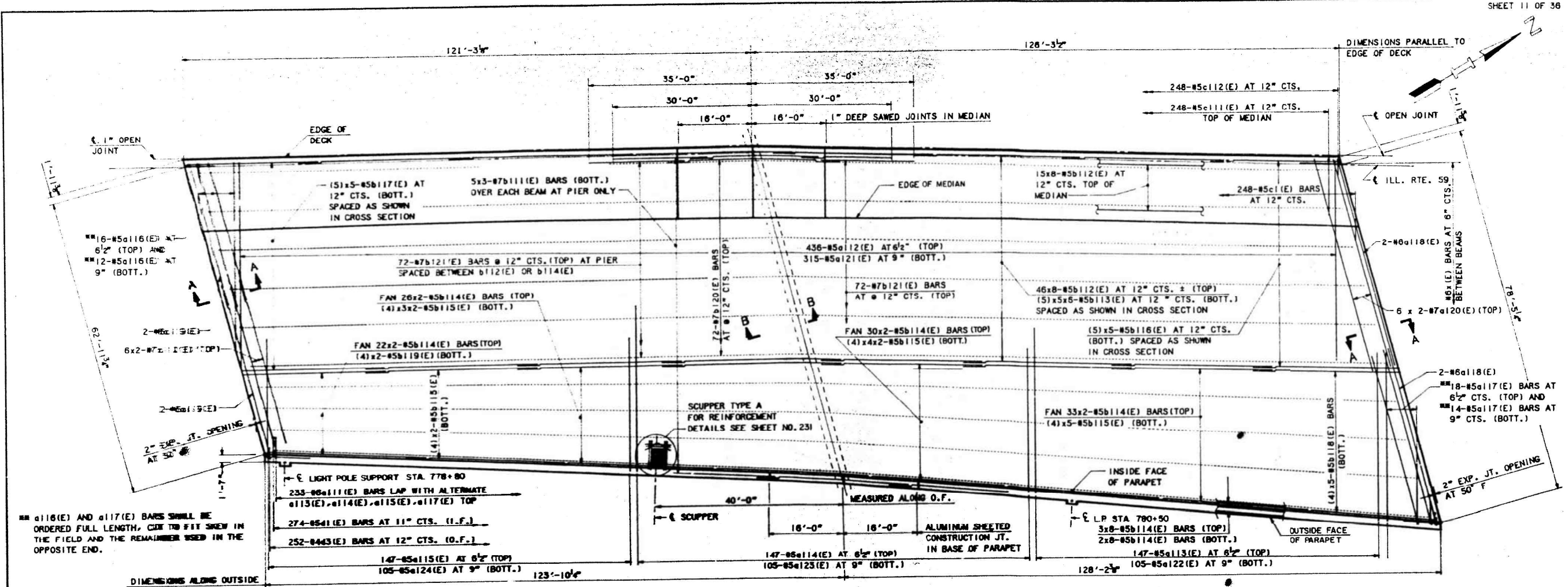
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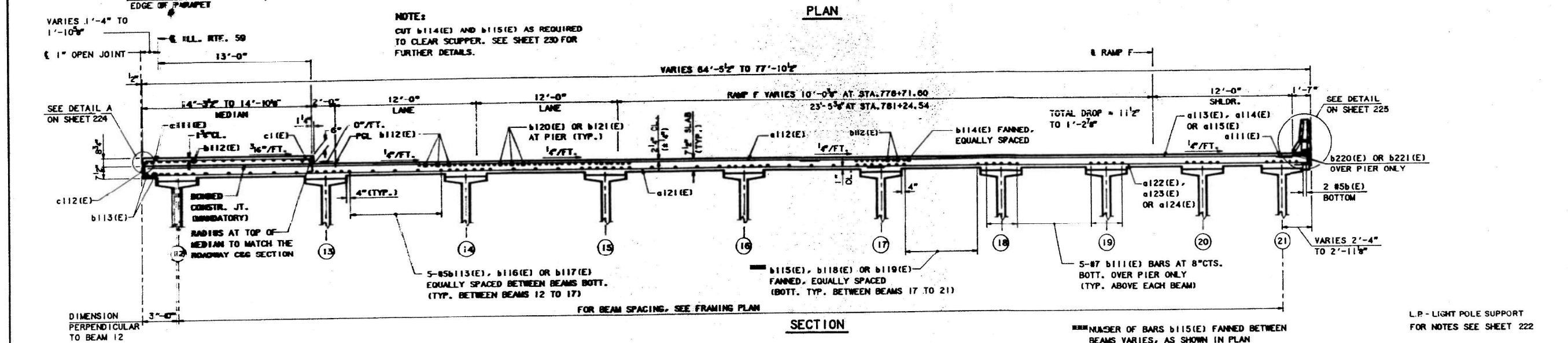
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NO.	DATE	DESCRIPTION																

FOR INFORMATION ONLY

<b>Bowman</b> <small>311 S. Wacker Drive, Suite 1950          Chicago, Illinois 60606          312-464-0800          www.bowman.com</small>	USER NAME = atiemann DESIGNED - AT, JK CHECKED - AJN DRAWN - AT, JK CHECKED - AJN	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	APPLICABLE AS-BUILT PLANS STRUCTURE NO. 016-2599	F.A.P. RTE. 338 SECTION 2021-075-BDRSBJR COUNTY COOK TOTAL SHEETS 86 SHEET NO. 57 CONTRACT NO. 62P12
	PLOT SCALE = PLOT DATE = 01/29/2024	SHEET 21 OF 32 SHEETS	ILLINOIS FED. AID PROJECT		



PLAN



SECTION

DRAWN: CAB  
 CHECKED: KRN  
 DATE: 11-1-90  
 SCALE: NTS

**HNTB**  
 HOWARD NEEDLES TAMMEN & BERGENDOFF  
 ARCHITECTS ENGINEERS PLANNERS

**THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY**  
 EAST - WEST TOLLWAY AND MIDWEST ROAD  
 OAK BROOK, ILLINOIS 60521

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT MIP-90-455  
 DECK PLAN AND SECTION  
 EAST HALF  
 ILL. RTE. 59 OVER NW TOLLWAY

DRAWING NO.  
 223 OF 380

FOR INFORMATION ONLY

MODEL: As-Built 4  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var VanEngineering\WO 18 - IL 59 over 1901500 Drawings\502 CADD Sheets\162P12-0162595-As Buils.dgn  
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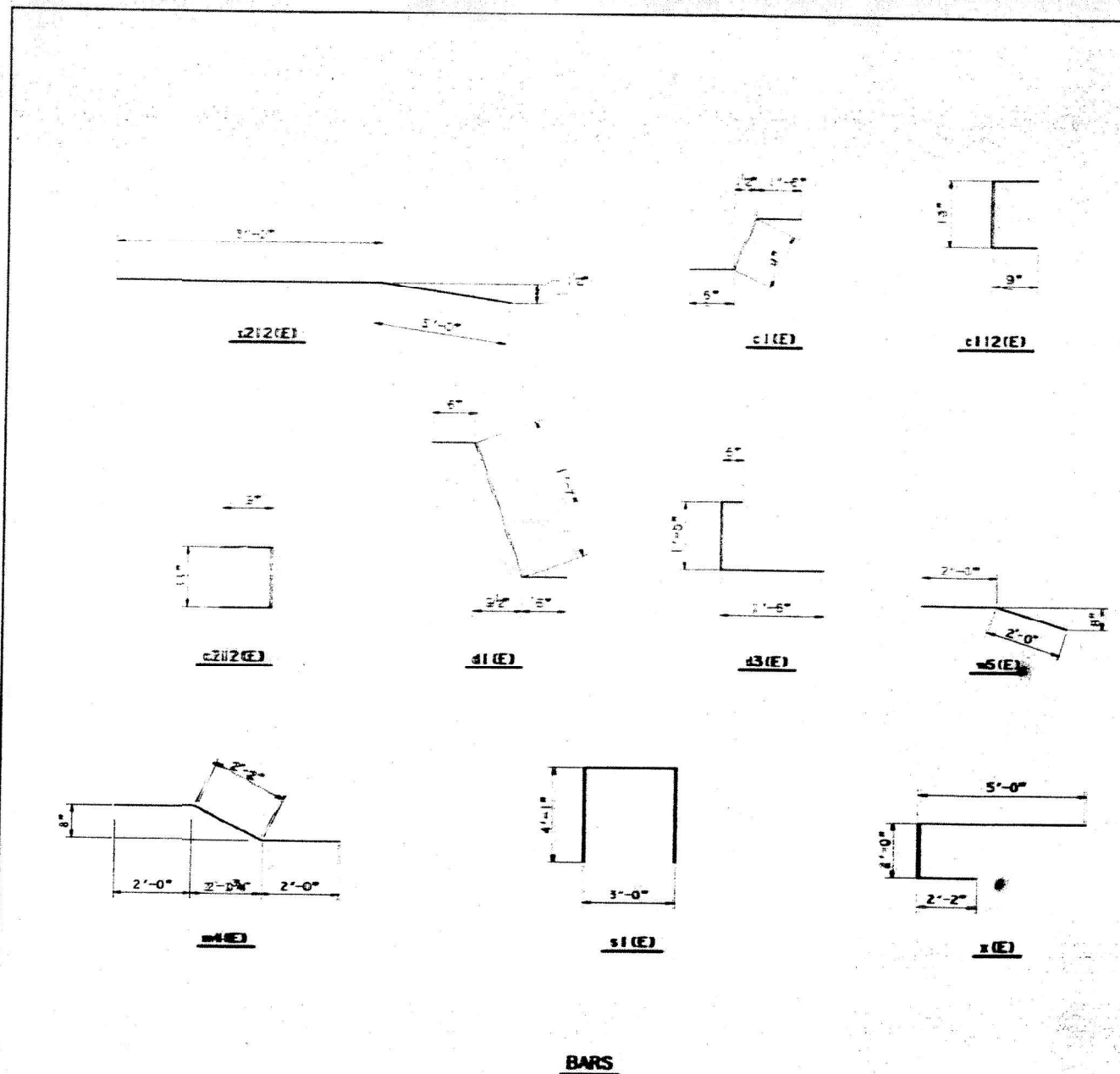
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PLOT SCALE =		DRAWN -	AT, JK	REVISED -	
PLOT DATE =	01/29/2024	CHECKED -	AJN	REVISED -	

**STATE OF ILLINOIS**  
 DEPARTMENT OF TRANSPORTATION

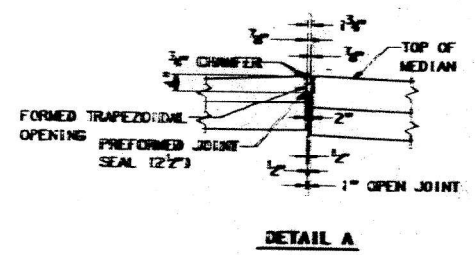
APPLICABLE AS-BUILT PLANS  
 STRUCTURE NO. 016-2599

SHEET 22 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2021-075-BDRS/BJR	COOK	86	58
CONTRACT NO.			62P12	
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY



**EAST HALF OF DECK  
BILL OF MATERIALS**

BAR NO.	NO.	SIZE	LENGTH	SHAPE	COMMENTS
a110(E)	12	#7	35'-0"		
a111(E)	232	#5	4'-0"		
a112(E)	436	#5	39'-9"		
a113(E)	147	#5	41'-0"		
a114(E)	147	#5	36'-0"		
a115(E)	147	#5	31'-0"		
a116(E)	28	#5	39'-0"		
a117(E)	32	#5	35'-0"		
a118(E)	4	#5	42'-0"		
a119(E)	4	#5	34'-0"		
a120(E)	12	#7	42'-6"		
a121(E)	315	#5	44'-9"		
a122(E)	105	#5	36'-0"		
a123(E)	105	#5	31'-0"		
a124(E)	105	#5	26'-0"		
a125(E)	150	#7	22'-6"		
a126(E)	488	#5	32'-10"		
a127(E)	162	#5	32'-10"		
a128(E)	262	#5	33'-4"		
a129(E)	84	#5	33'-4"		
a130(E)	27	#5	27'-3"		
a131(E)	27	#5	40'-0"		
a132(E)	20	#5	40'-0"		
a133(E)	8	#5	27'-0"		
a134(E)	72	#7	40'-0"		
a135(E)	144	#7	39'-0"		
a136(E)	274	#5	2'-7"		
a137(E)	252	#4	3'-5"		
DECK REINFORCEMENT					
c1(E)	248	#5	2'-9"		
c111(E)	248	#5	13'-10"		
c112(E)	248	#5	2'-7"		
MEDIAN REINFORCEMENT					
z1(E)	12	#6	6'-0"		SCUPPER REINF. SEE DETAIL SHT.18
z2(E)	2	#6	3'-0"		
DIAPHRAGMS AT ABUTS.					
m0(E)	54	#6	4'-6"		
m12(E)	56	#6	7'-6"		
m14(E)	8	#6	2'-2"		
m15(E)	16	#6	3'-8"		
x(E)	266	#6	9'-2"		
DIAPHRAGMS AT PIER					
m4(E)	39	#8	1'-6"		
m0(E)	72	#6	4'-6"		
m4(E)	9	#8	6'-2"		
m5(E)	1	#8	4'-1"		
m22(E)	10	#6	5'-10"		
m24(E)	2	#6	1'-6"		
m25(E)	8	#6	3'-9"		
m32(E)	40	#6	7'-5"		
m34(E)	8	#6	2'-6"		
m35(E)	32	#6	5'-5"		
s1(E)	78	#4	11'-2"	LJ	
ITEM UNIT QUANTITY					
CLASS X CONCRETE - SUPERSTRUCTURE			CU. YDS.	625	
REINFORCEMENT BARS (EPOXY COATED)			LBS.	134,670	
PROTECTIVE COAT			SQ. YDS.	1950	

**WEST HALF OF DECK  
BILL OF MATERIALS**

BAR NO.	NO.	SIZE	LENGTH	SHAPE	COMMENTS
a210(E)	4	#6	46'-3"		
a211(E)	232	#6	4'-0"		
a212(E)	464	#5	18'-0"		
a213(E)	340	#5	13'-0"		
a214(E)	766	#5	35'-6"		
a215(E)	269	#5	26'-0"		
a216(E)	322	#5	18'-0"		
a217(E)	446	#5	14'-0"		
a218(E)	23	#5	25'-0"		
a219(E)	12	#7	46'-10"		
a220(E)	4	#6	40'-6"		
a221(E)	12	#7	41'-0"		
a222(E)	12	#5	20'-0"		
a223(E)	8	#5	24'-0"		
a224(E)	32	#5	34'-0"		
a225(E)	267	#5	22'-0"		
a226(E)	267	#5	18'-0"		
a227(E)	17	#5	13'-0"		
b211(E)	165	#7	22'-8"		
b212(E)	568	#5	32'-10"		
b213(E)	210	#5	32'-10"		
b214(E)	35	#5	25'-8"		
b215(E)	35	#5	40'-0"		
b216(E)	206	#5	33'-4"		
b217(E)	18	#5	26'-8"		
b218(E)	81	#5	33'-4"		
b219(E)	6	#5	40'-0"		
b220(E)	82	#7	40'-0"		
b221(E)	164	#7	19'-0"		
d1(E)	274	#5	2'-7"		
d3(E)	252	#4	3'-5"		
DECK REINFORCEMENT					
c1(E)	247	#5	2'-9"		
c211(E)	244	#5	10'-9"		
c212(E)	247	#5	2'-5"		
MEDIAN REINFORCEMENT					
z1(E)	192	#6	6'-0"		SCUPPER REINF. SEE DETAIL SHT.18
z2(E)	48	#6	3'-0"		
DIAPHRAGMS AT ABUTS.					
m0(E)	60	#6	4'-6"		
m11(E)	12	#6	8'-6"		
m12(E)	48	#6	7'-6"		
m13(E)	8	#6	5'-3"		
m14(E)	8	#6	2'-2"		
m16(E)	12	#6	4'-6"		
x(E)	308	#6	9'-2"		
DIAPHRAGMS AT PIER					
d4(E)	47	#8	1'-6"		
m0(E)	80	#6	4'-6"		
m4(E)	10	#8	6'-2"		
m5(E)	1	#8	4'-1"		
m21(E)	6	#6	4'-10"		
m22(E)	12	#6	5'-10"		
m23(E)	2	#6	3'-6"		
m24(E)	2	#6	1'-6"		
m31(E)	24	#6	6'-6"		
m32(E)	48	#6	7'-5"		
m33(E)	8	#6	5'-2"		
m34(E)	8	#6	2'-6"		
s1(E)	92	#4	11'-2"	LJ	
ITEM UNIT QUANTITY					
CLASS X CONCRETE - SUPERSTRUCTURE			CU. YDS.	688	
REINFORCEMENT BARS (EPOXY COATED)			LBS.	155,100	
PROTECTIVE COAT			SQ. YDS.	2,250	

DRAWN CAD  
CHECKED KON

DATE 11-1-90  
SCALE NONE

**HNTB**  
HOWARD NEEDLES TAMMEN & BERGENOFF  
ARCHITECTS ENGINEERS PLANNERS

**THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY**  
EAST - WEST TOLLWAY AND MIDWEST ROAD  
CAK BROOK, ILLINOIS 60521

NO.	DATE	DESCRIPTION

CONTRACT MIP-90-455  
DECK REINFORCEMENT LIST  
ILL. RTE. 59 OVER NW TOLLWAY

DRAWING NO.  
224 OF 380

**Bowman**  
311 S. Wacker Drive, Suite 1950  
Chicago, Illinois 60606  
312-464-0800  
www.bowman.com

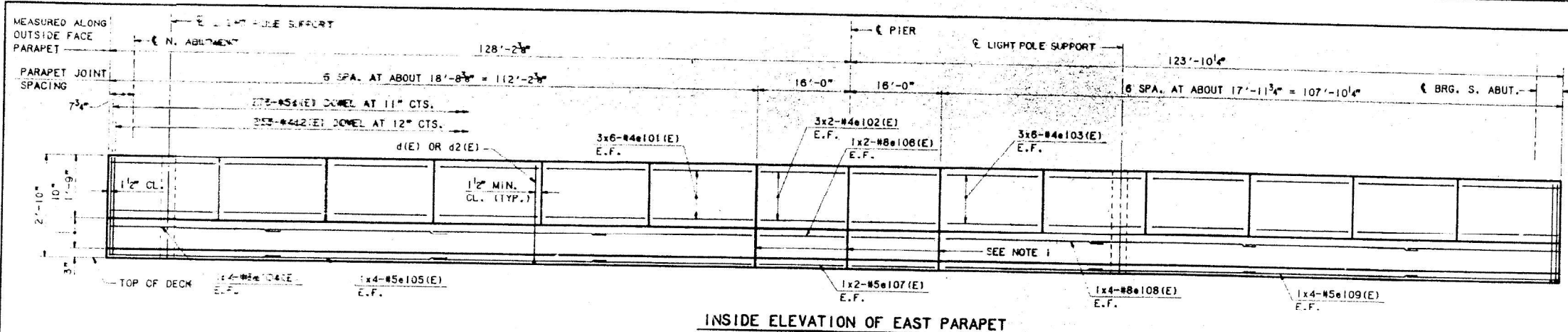
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PLOT SCALE =	CHECKED - AJN	REVISED -
PLOT DATE = 01/29/2024	DRAWN - AT, JK	REVISED -
	CHECKED - AJN	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

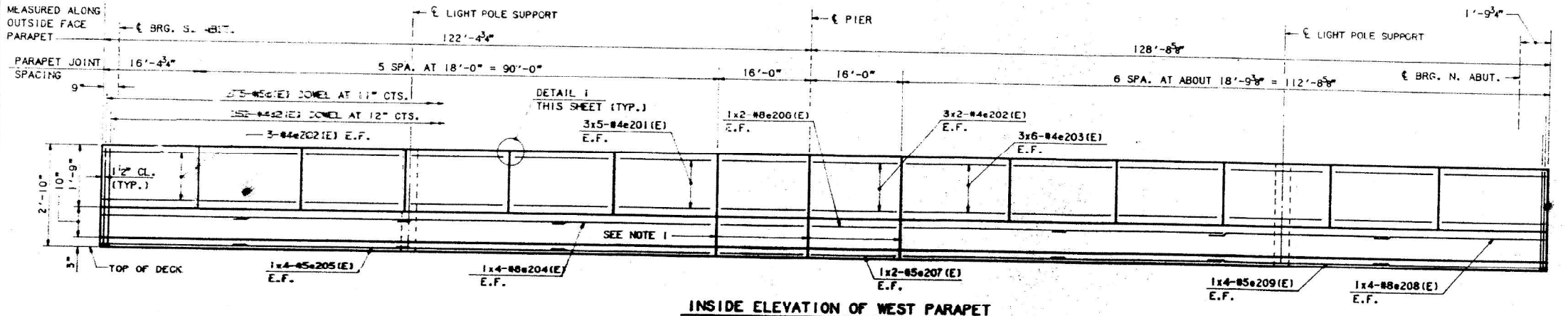
APPLICABLE AS-BUILT PLANS  
STRUCTURE NO. 016-2599

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2021-075-BDR&BJR	COOK	86	59
CONTRACT NO.			62P12	
ILLINOIS FED. AID PROJECT				

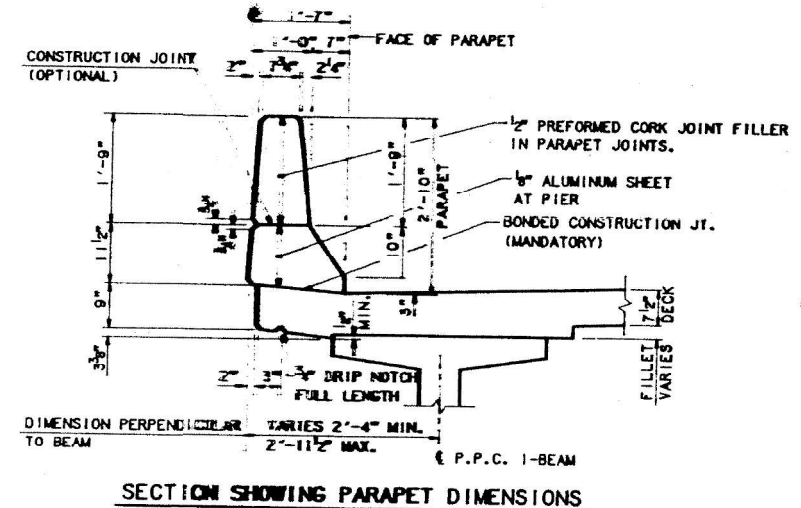
MODEL: As-Built 5  
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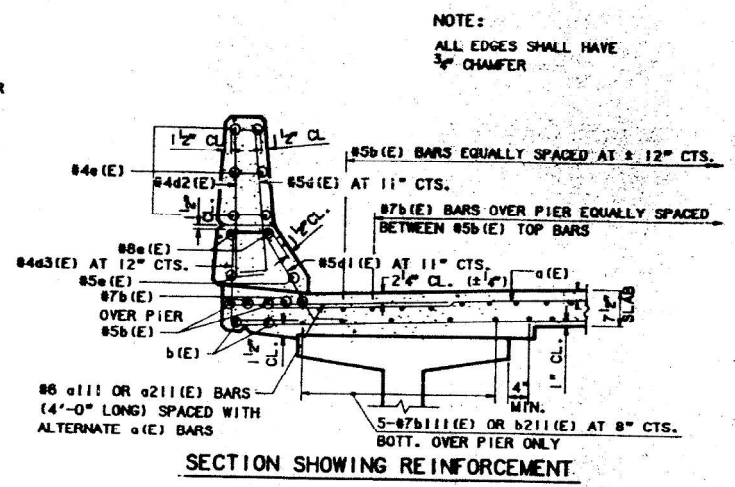
INSIDE ELEVATION OF EAST PARAPET



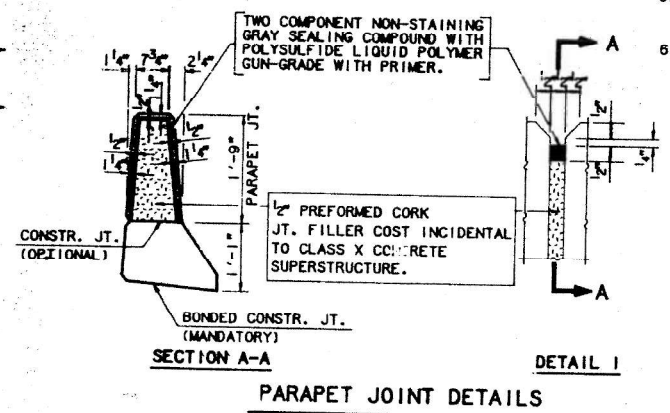
INSIDE ELEVATION OF WEST PARAPET



SECTION SHOWING PARAPET DIMENSIONS



SECTION SHOWING REINFORCEMENT



PARAPET JOINT DETAILS

BAR d(E) & BAR d2(E)

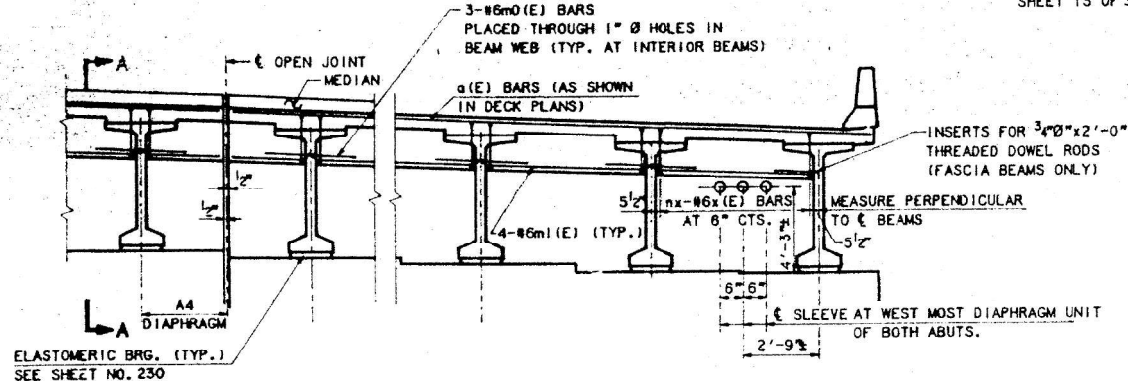
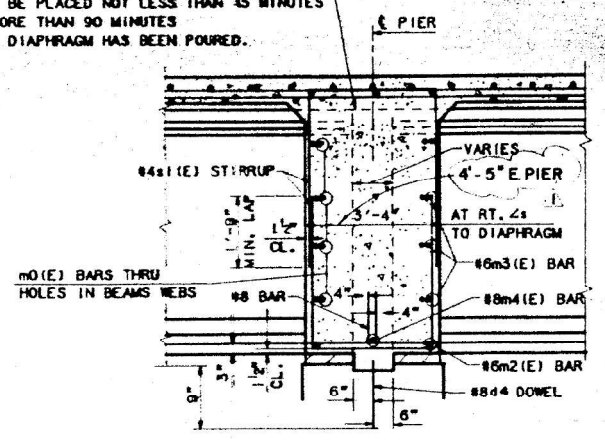
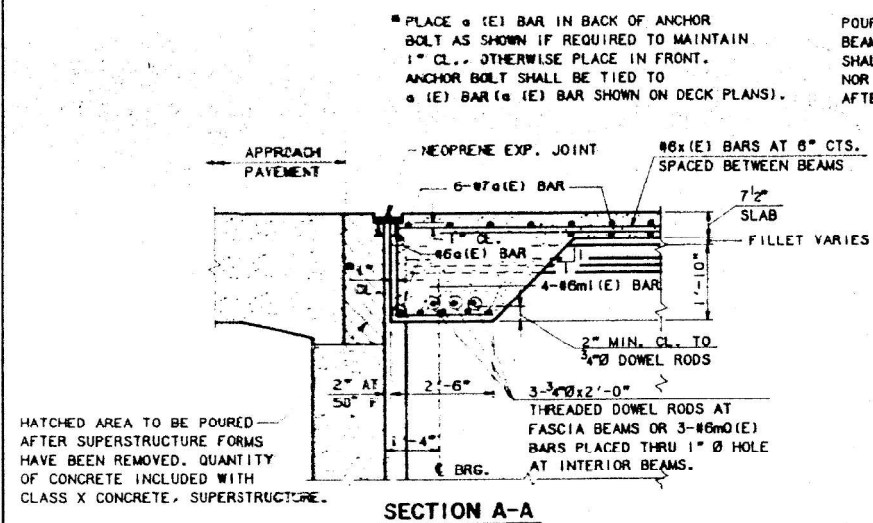
PARAPETS BILL OF MATERIAL					
LOCATION	BAR	NO.	SIZE	LENGTH	SHAPE
EAST PARAPET	d(E)	275	#5	3'-0"	L
	d2(E)	253	#4	3'-0"	L
	d3(E)	6	#6	4'-5"	L
	d6(E)	10	#6	8'-11"	L
	e101(E)	36	#4	18'-4"	L
	e102(E)	12	#4	15'-8"	L
	e103(E)	36	#4	17'-8"	L
	e104(E)	8	#8	30'-10"	L
	e105(E)	8	#5	29'-8"	L
	e106(E)	4	#8	15'-8"	L
e107(E)	4	#5	15'-8"	L	
e108(E)	8	#8	29'-8"	L	
e109(E)	8	#5	28'-6"	L	
WEST PARAPET	d(E)	275	#5	3'-0"	L
	d2(E)	252	#4	3'-0"	L
	d5(E)	6	#6	4'-5"	L
	d6(E)	10	#6	8'-11"	L
	e201(E)	30	#4	17'-8"	L
	e202(E)	18	#4	15'-8"	L
	e203(E)	36	#4	18'-5"	L
	e204(E)	8	#8	29'-4"	L
	e205(E)	8	#5	28'-2"	L
	e206(E)	4	#8	15'-8"	L
e207(E)	4	#5	15'-8"	L	
e208(E)	8	#8	30'-11"	L	
e209(E)	8	#5	29'-9"	L	
ITEM		UNIT	QUANTITY		
REINFORCEMENT BARS (EPOXY COATED)		LBS	9070		
CLASS X CONCRETE, SUPERSTRUCTURE		CU. YDS.	53		
PROTECTIVE COAT		SQ. YDS.	206		

- NOTES:
1. DENOTES ALUMINUM SHEETED CONSTRUCTION JOINT IN BASE OF PARAPET.
  2. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
  3. BARS INDICATED THUS 20x3 - #5 ETC. INDICATES 20 LINES OF BARS WITH 3 LENGTHS PER LINE.
  4. WORK THIS SHEET WITH SHEETS 222, 225 & 224
  5. FOR LIGHT SUPPORT DETAILS, SEE SHEET 249
  6. E.F. - EACH FACE.

DRAWN: CAD CHECKED: KGM	DATE: 11-1-90 SCALE: N.T.S.	<b>HNTB</b> HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS	<b>THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY</b> EAST - WEST TOLLWAY AND MIDWEST ROAD OAK BROOK, ILLINOIS 60521	REVISIONS NO. DATE DESCRIPTION	CONTRACT MIP-90-455 PARAPET AND DECK DETAILS ILL. RTE. 59 OVER NW TOLLWAY	DRAWING NO. 225 OF 380
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FOR INFORMATION ONLY

<b>Bowman</b> 311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606 312-464-0800 www.bowman.com	USER NAME = atiemann DESIGNED - AT, JK CHECKED - AJN DRAWN - AT, JK CHECKED - AJN	DESIGNED - AT, JK CHECKED - AJN DRAWN - AT, JK CHECKED - AJN	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	APPLICABLE AS-BUILT PLANS STRUCTURE NO. 016-2599	SHEET 24 OF 32 SHEETS	F.A.P. RTE. 338	SECTION 2021-075-BDRSBJR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 60	CONTRACT NO. 62P12	ILLINOIS FED. AID PROJECT
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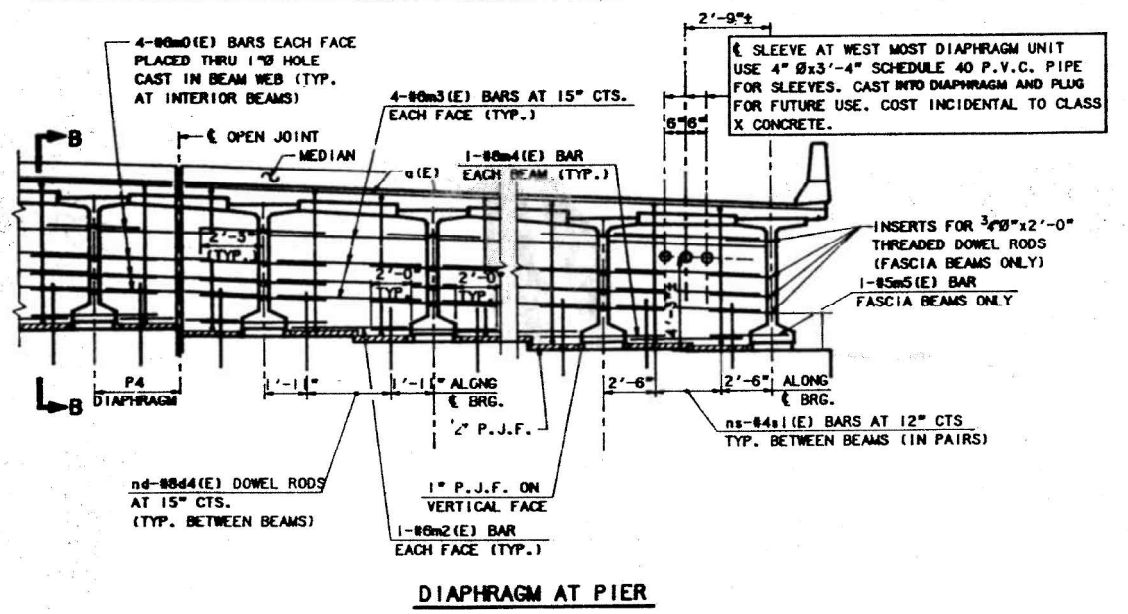
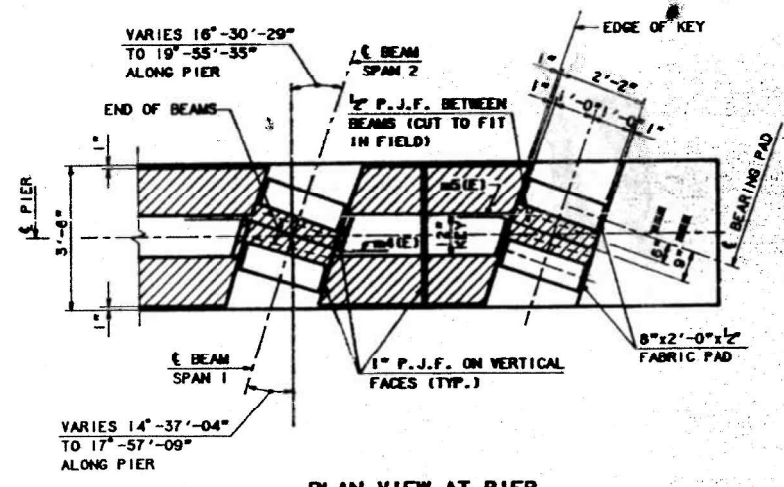
PIER DIAPHRAGM REINFORCEMENT DETAIL TABLE

DIAPHRAGM UNIT	NUMBER OF SIMILAR UNITS		ns	nd	#2 BARS		#3 BARS	
	EAST DECK	WEST DECK			LENGTH	BAR	LENGTH	BAR
P1	3	4	4	4	4'-10"	m21	6'-6"	m3
P2	5	6	5	5	5'-10"	m22	7'-5"	m32
P3	1	2	2	3	3'-8"	m23	5'-2"	m33
P4	1	1	2	2	1'-8"	m24	2'-8"	m34
P5	4	3	3	3	3'-9"	m25	5'-5"	m35

ABUTMENT DIAPHRAGMS REINFORCEMENT DETAIL TABLE

DIAPHRAGM UNIT	ABUTMENT LOCATION	NUMBER OF SIMILAR UNITS				nx	m1 BARS	
		EAST DECK		WEST DECK				LENGTH
A1	SOUTH	0	3	3	18	8'-6"	m11	
	NORTH	0	3	3	18	8'-6"	m11	
A2	SOUTH	5	14	6	12	16	7'-6"	m12
	NORTH	9	6	6	12	16	7'-6"	m12
A3	SOUTH	0	1	2	11	5'-3"	m13	
	NORTH	0	1	2	11	5'-3"	m13	
A4	SOUTH	1	2	1	2	5	2'-2"	m14
	NORTH	1	2	1	2	5	2'-2"	m14
A5	SOUTH	4	0	0	8	3'-8"	m15	
	NORTH	4	0	0	8	3'-8"	m15	
A6	SOUTH	0	3	3	10	4'-8"	m16	
	NORTH	0	3	3	10	4'-8"	m16	

- NOTES:
- WORK THIS SHEET WITH SHEETS 222, 223, 224 & 226.
  - ALL REINFORCING BARS FILLED IN THE DECK BAR LISTS.



FOR INFORMATION ONLY

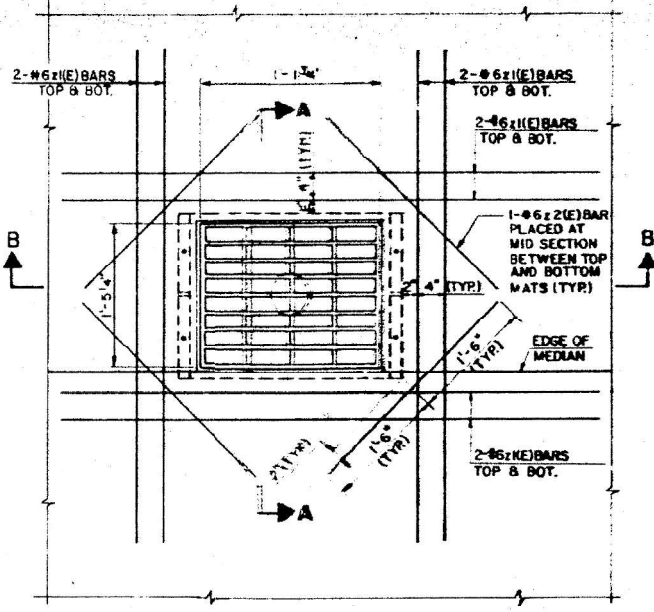
INDICATES 1/2 P.J.F.

TYPICAL DIMENSION MEASURED ALONG THE CENTERLINE OF EACH BEAM

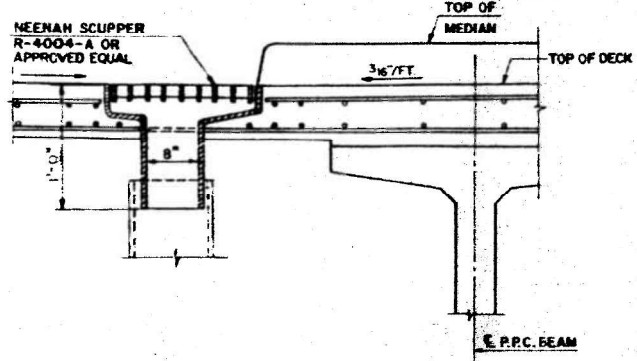
DRAWN: CADD CHECKED: K9N	DATE: 11-1-90 SCALE: N.T.S.	<b>HNTB</b> HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS	<b>THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY</b> EAST - WEST TOLLWAY AND MIDWEST ROAD OAK BROOK, ILLINOIS 60521	REVISIONS NO. DATE DESCRIPTION 1 4-7-92 EAST PIER LENGTH	CONTRACT MIP-90-455 DIAPHRAGM DETAILS ILL. RTE. 50 OVER NW TOLLWAY	DRAWING NO. 227 OF 380
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MODEL: As-Built 6  
 FILE NAME: P:\040058-01-002 (ENG) - PTB-195-016 Phase II Var VanEngineering\WO 18 - IL 59 over 1901500 Drawings\502 CADD Sheets\162P12-0162595-As Built.dgn  
 01/29/2024 1:02:37 PM

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PLAN

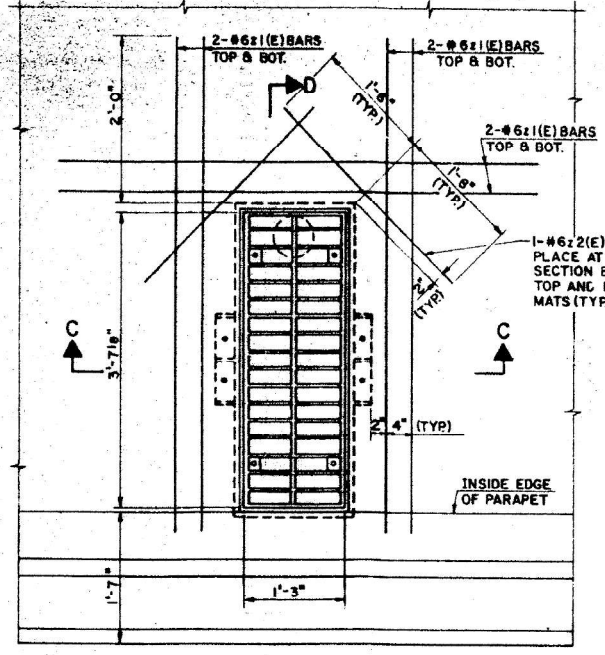


SECTION A-A

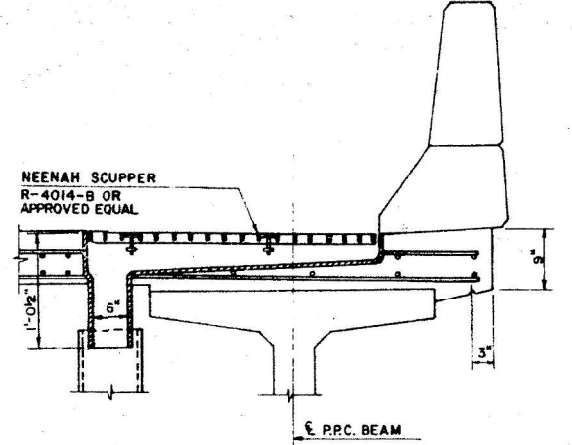
REINFORCEMENT BAR SCHEDULE

MARK	NO.	SIZE	LENGTH	SHAPE
z1(E)	16	#6	6'-0"	---
z2(E)	4	#6	3'-0"	---

SCUPPER TYPE B  
(12 REQUIRED)



PLAN

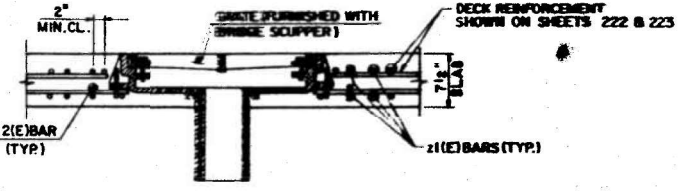


SECTION D-D

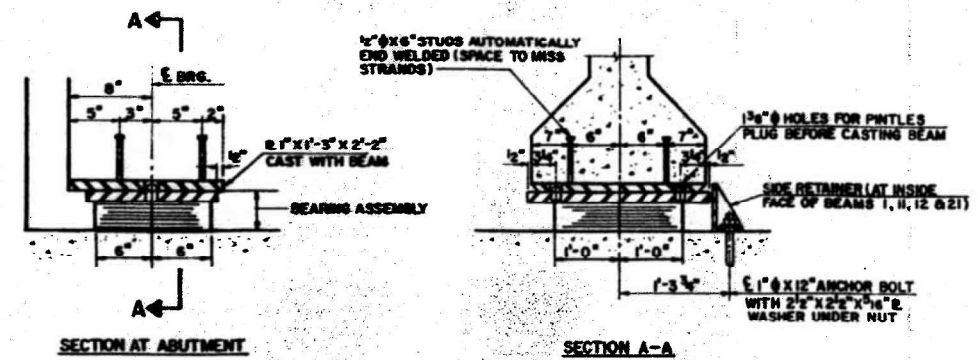
REINFORCEMENT BAR SCHEDULE

MARK	NO.	SIZE	LENGTH	SHAPE
z1(E)	12	#6	6'-0"	---
z2(E)	2	#6	3'-0"	---

SCUPPER TYPE A  
(1 REQUIRED)

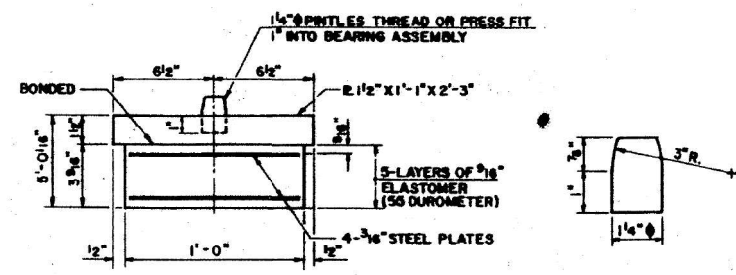


SECTION B-B  
SECTION C-C (SIMILAR)



SECTION AT ABUTMENT

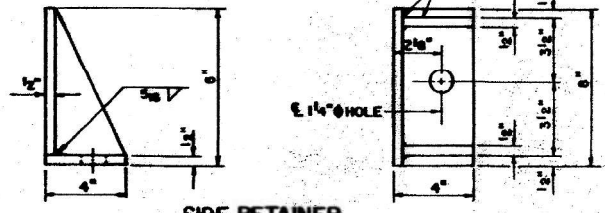
SECTION A-A



BEARING ASSEMBLY

PINTLE

TYPE I ELASTOMERIC EXP. BRG.



SIDE RETAINER

EQUIVALENT ROLLED ANGLE WITH STIFFENERS WILL BE ALLOWED IN LIEU OF WELDED PLATES

NOTE: AFTER BEAMS HAVE BEEN ERECTED, HOLES AT EXPANSION BEARINGS SHALL BE DRILLED AND ANCHOR BOLTS GROUTED IN PLACE. SEE SHEET NO. 233 FOR ANCHOR BOLT INSTALLATION.

NOTE: ALL REINFORCING BARS BILLED IN THE DECK BAR LISTS.

FOR INFORMATION ONLY

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
ELASTOMERIC BEARING ASSEMBLY TYPE I	EACH	42
DRAINAGE SCUPPERS, SPECIAL	EACH	13

DRAWN: J.S.S.	DATE: 8-1-90
CHECKED: K.G.M.	SCALE: NTS

**THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY**  
 EAST-WEST TOLLWAY AND MIDWEST ROAD  
 OAK BROOK, ILLINOIS 60521

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT MIP- 90-455  
 EXP. BEARINGS AND SCUPPER DETAILS  
 ILL. RTE. 59 OVER NW TOLLWAY

DRAWING NO.  
 230 OF 380

MODEL: As-Built 7  
 FILE NAME: P:\040058-01-002 (ENG) - PTB\_195-016 Phase II Var VanEngineering\WO 18 - IL 59 over 1901500 Drawings\502 CADD Sheets\162P12-01.62595-As Built.dgn  
 01/29/2024 1:02:51 PM

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PLOT SCALE =	CHECKED - AJN	REVISED -
PLOT DATE = 01/29/2024	DRAWN - AT, JK	REVISED -
	CHECKED - AJN	REVISED -

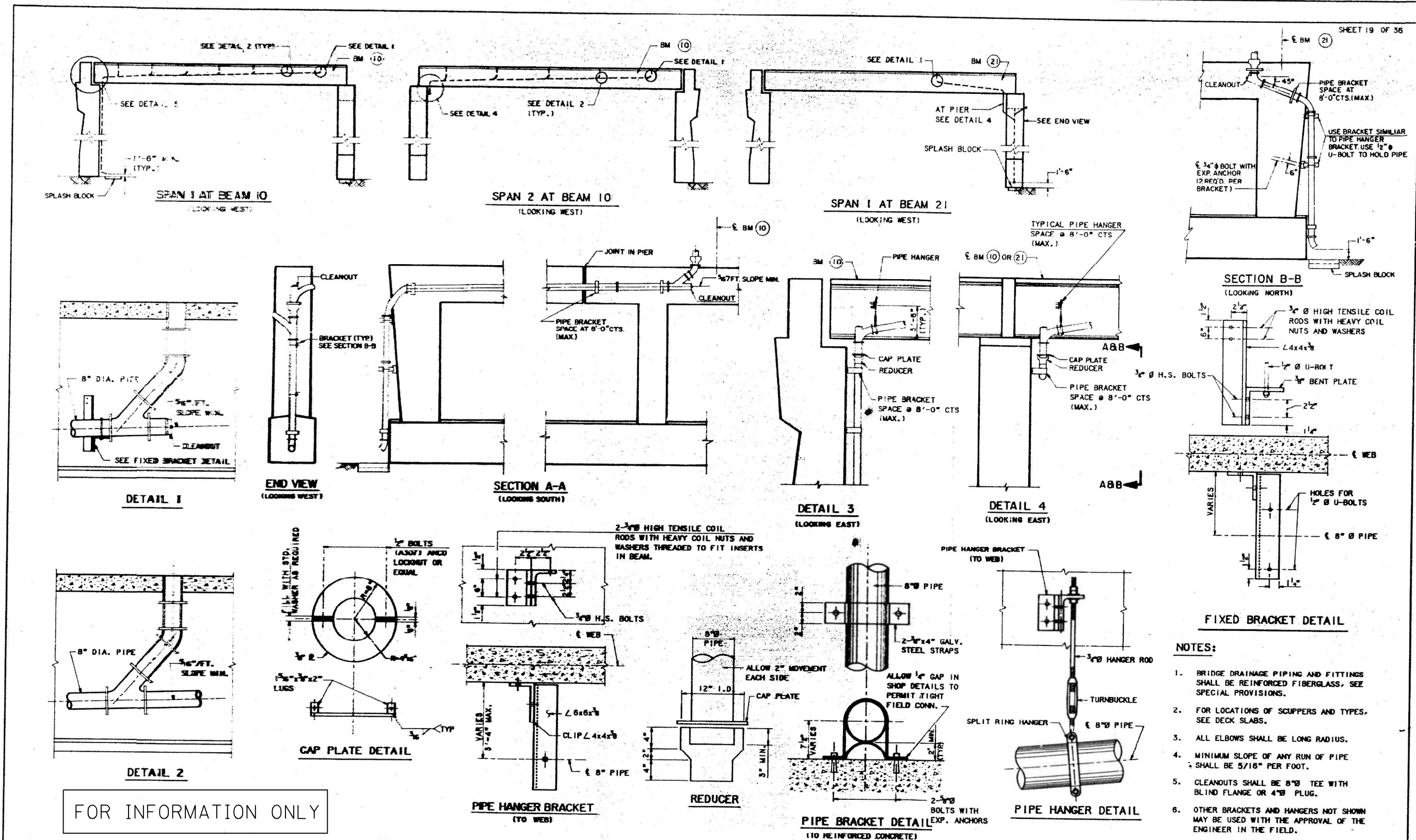
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

APPLICABLE AS-BUILT PLANS  
 STRUCTURE NO. 016-2599

SHEET 26 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2021-075-BDR&BR	COOK	86	62
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				

MODEL: As-Built 8  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var.VanEngineering\WO\_18 - IL 59 over 1901500 Drawings\502 CADD Sheets\0162595-As Built.dgn  
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DRAWN: <i>CGM</i> CHECKED: <i>KGN</i>	DATE: 12-8-90 SCALE: S15	<b>HNTB</b> HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS	<b>THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY</b> EAST - WEST TOLLWAY AND MIDWEST ROAD OAK BROOK, ILLINOIS 60521	<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	REVISIONS		NO.	DESCRIPTION							CONTRACT MIP 90-455 DRAINAGE DETAIL ILL. RTE. 59 OVER NW TOLLWAY	DRAWING NO. 231 OF 380
REVISIONS																
NO.	DESCRIPTION															



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PLOT SCALE =	CHECKED - AJN	REVISED -
PLOT DATE = 01/29/2024	DRAWN - AT, JK	REVISED -
	CHECKED - AJN	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPLICABLE AS-BUILT PLANS  
STRUCTURE NO. 016-2599

F.A.P. RTE. 338	SECTION 2021-075-BDRSBJR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 63
CONTRACT NO. 62P12				ILLINOIS FED. AID PROJECT

JOINT SIZE	"C" AT 50°	"D" AT 50°
2"	2"	2" MIN.

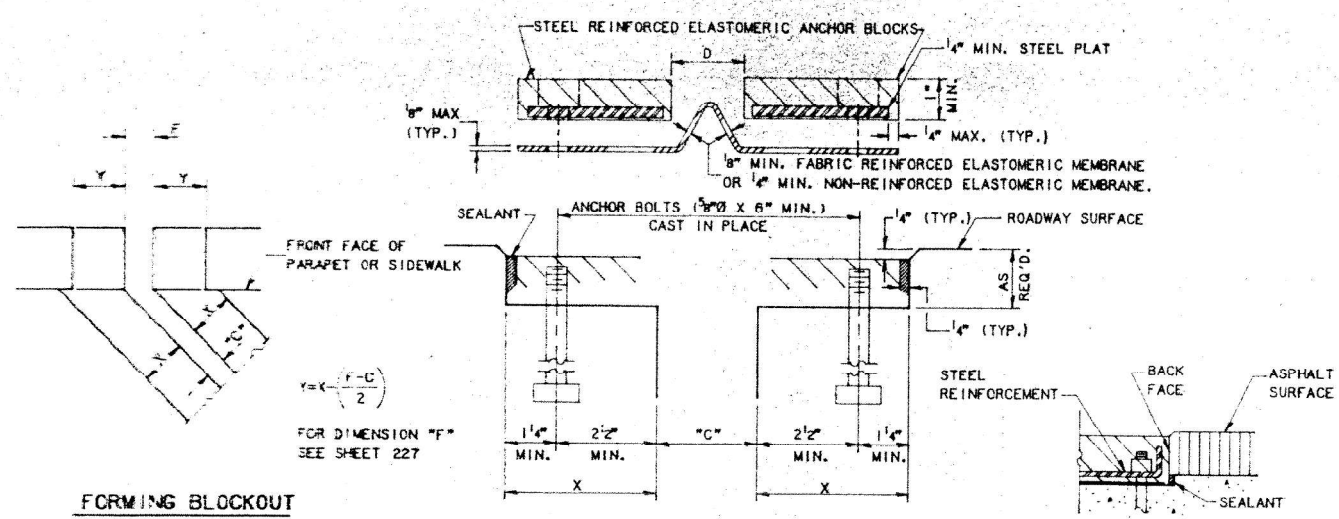
**INSTALLATION NOTES**

1. INSTALL SPONGE MANDRELS INTO POSITIONS SHOWN TO FORM FLAP CONVOLUTION.
2. INSTALL PARAPET OR SIDEWALK FLAP FROM ROADWAY FLAP TO FIT BEFORE APPLYING EPDM.
3. INSTALL CONTINUOUS SEAL IN ROADWAY.
4. INSTALL ANCHOR BLOCKS AS INDICATED.

NOTE A: MAXIMUM SPACING OF ANCHOR BOLTS SHALL BE 12" CENTERS.

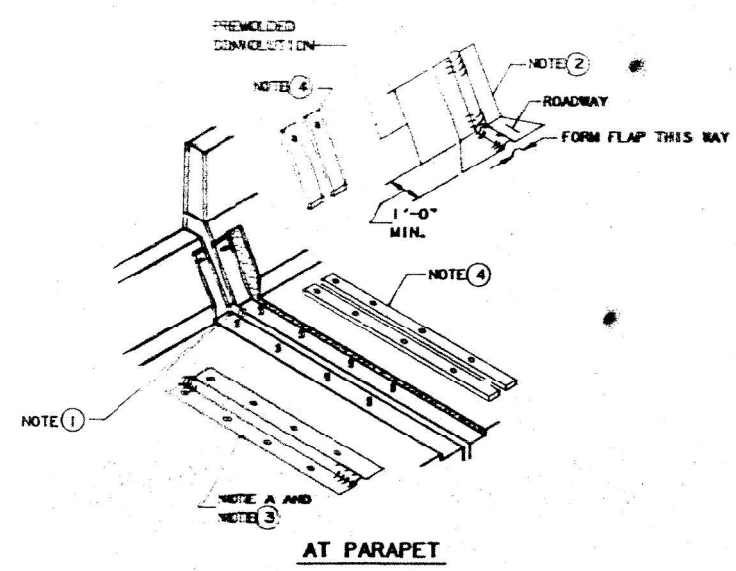
**SKEW LIMITATIONS**

THE DETAILS OF THE ANCHOR BLOCKS AND THE ELASTOMERIC MEMBRANE IN THE PARAPET, AS SHOWN, ARE FOR UP TO 50° SKEWS. FOR SKEWS GREATER THAN 50°, THE ANCHOR BLOCKS AND THE ELASTOMERIC MEMBRANE, INSTALLED IN ACCORDANCE WITH DIMENSION "D", MIGHT REQUIRE MODIFICATIONS TO INSURE A MINIMUM CLEARANCE OF 1 1/2" FROM CENTERLINE OF ANCHOR STUDS TO EDGE OF PARAPET OPENING. THE ANCHOR BLOCKS AND THE ELASTOMERIC MEMBRANE SHALL ALSO BE INSTALLED TO THE TOP OF THE PARAPET WITH THE ANCHOR STUDS SPACED AT 6" CTS.

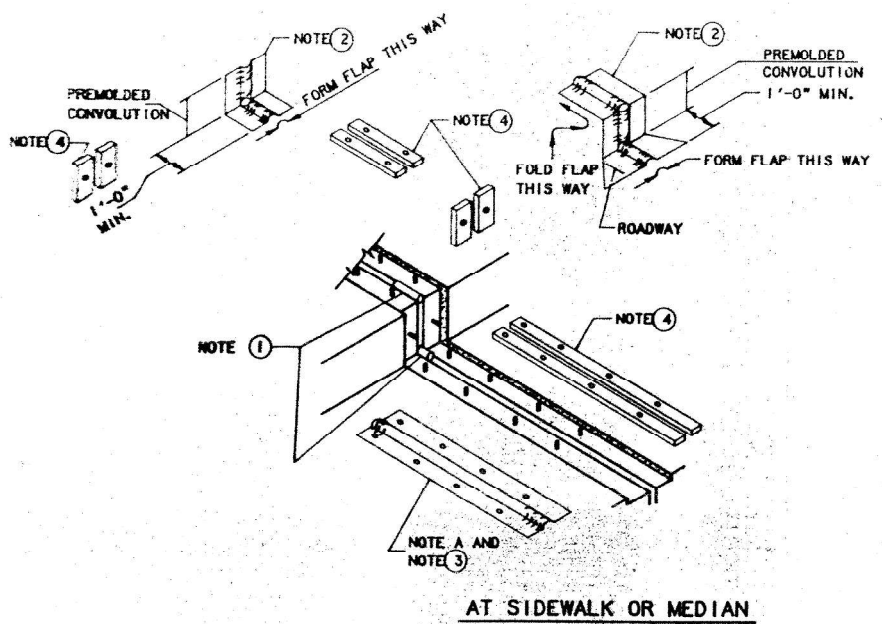


**GENERAL NOTES**

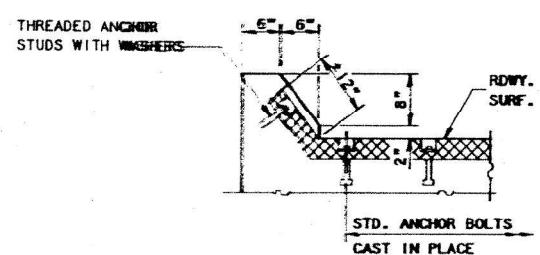
CONTINUOUS SEAL NEOPRENE EXPANSION JOINT SHALL CONSIST OF MOLDED ANCHOR BLOCKS OF ELASTOMER AND STEEL, FIELD ASSEMBLED OVER CONTINUOUS LENGTHS OF ELASTOMERIC MEMBRANE. SEE SPECIAL PROVISIONS.  
 THE ELASTOMERIC MEMBRANE SHALL BE PREMOLDED WITH A SINGLE OR A DOUBLE UPWARD CONVOLUTION THAT WILL HAVE A "MEMORY" TO RETURN TO ITS MOLDED POSITION UPON JOINT CLOSURE.  
 THE STEEL REINFORCEMENT MUST EXTEND UP THE BACK FACE OF ANCHOR BLOCKS WHEN ASPHALT SURFACES ARE USED BUT IS OPTIONAL IN CONCRETE BLOCKOUT.  
 THE CONVOLUTION LENGTH SHALL BE SUCH THAT THE EXTENDED LENGTH WILL NOT BE GREATER THAN THE MANUFACTURED LENGTH WHEN THE JOINT IS FULLY EXPANDED IN ITS DESIGN RANGE AND WILL NOT PROTRUDE ABOVE THE ANCHOR BLOCKS WHEN THE JOINT IS FULLY COMPRESSED.  
 JOINT OPENINGS SHALL BE ADJUSTED IN ACCORDANCE WITH ARTICLE 503.07(C) OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50°F.  
 THE PARAPET AND SIDEWALK FLAPS MAY BE FURNISHED FACTORY VULCANIZED TO THE ROADWAY MEMBRANE PROVIDED THE CENTERLINE OF THE CONVOLUTION IS MAINTAINED AND THE PROCESS AND METHOD MEET THE APPROVAL OF THE ENGINEER.



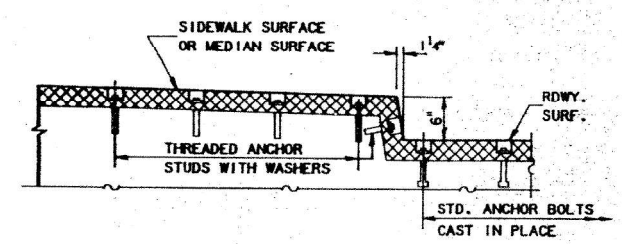
**AT PARAPET**



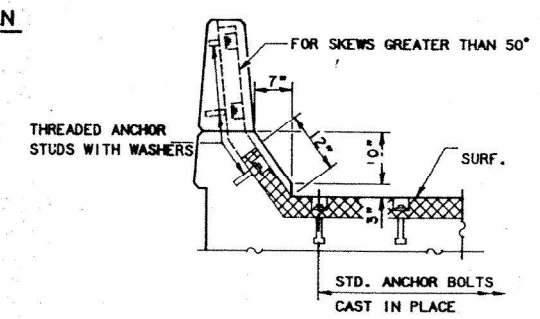
**AT SIDEWALK OR MEDIAN**



**CURB AT ABUTMENT**



**AT SIDEWALK OR MEDIAN  
TYPICAL END TREATMENTS**



**AT PARAPET**

FOR INFORMATION ONLY

DRAWN: CADD  
 CHECKED: KGM

DATE: 8-1-90  
 SCALE: N.T.S.

**HNTB**  
 HOWARD NEEDLES TAMMEN & BERGENDOFF  
 ARCHITECTS ENGINEERS PLANNERS

**THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY**  
 EAST-WEST TOLLWAY AND MIDWEST ROAD  
 OAK BROOK, ILLINOIS 60521

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT MIP-90-455  
 EXPANSION JOINTS  
 ILL. RTE. 59 OVER NW TOLLWAY

DRAWING NO.  
 232 OF 380

MODEL: As-Built 9  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var\_VanEngineering\WO\_18 - IL 59 over 1901500 Drawings\502 CADD Sheets\162P12-0162595-As\_Built.dgn  
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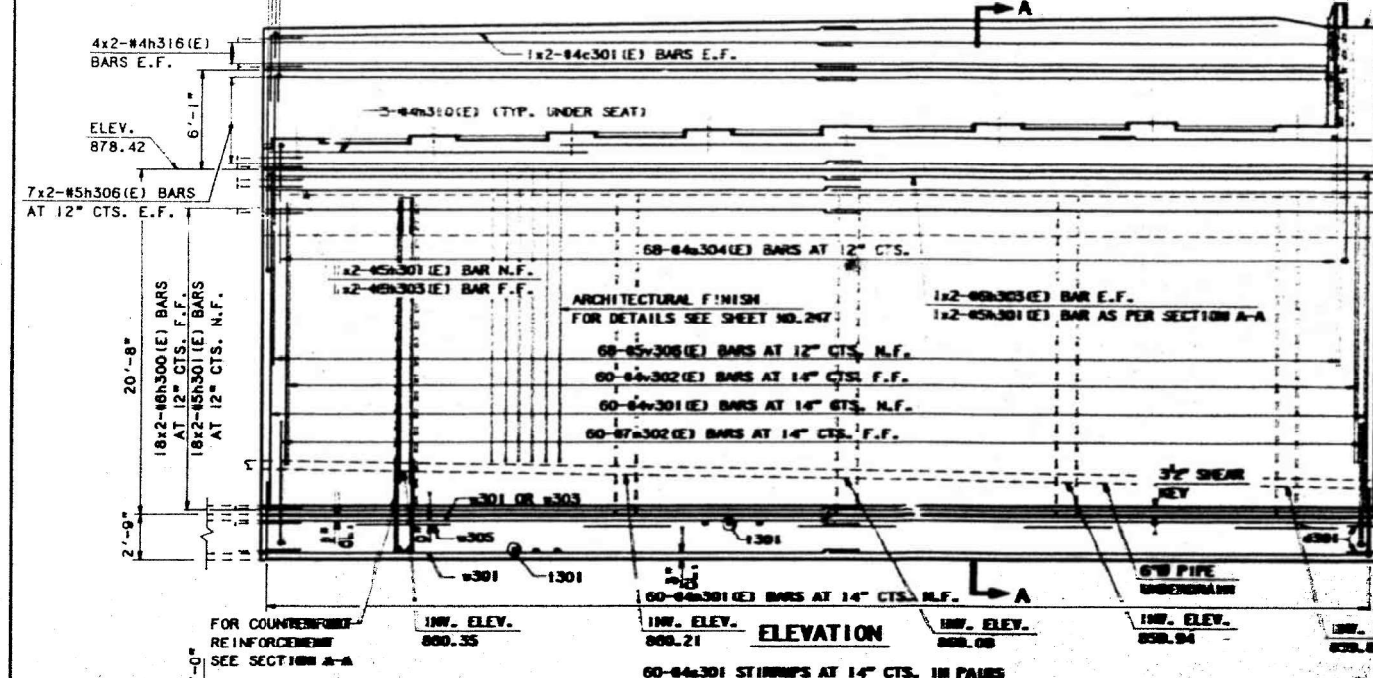
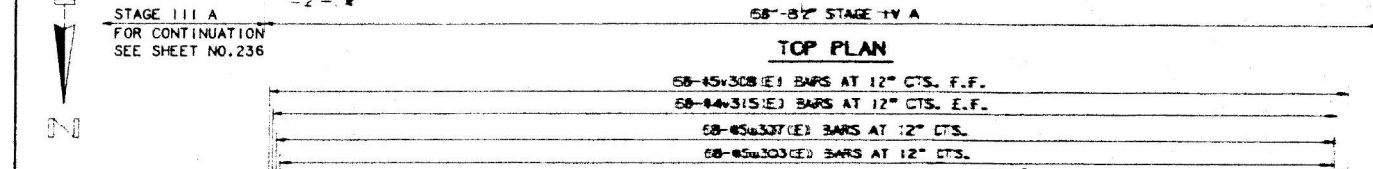
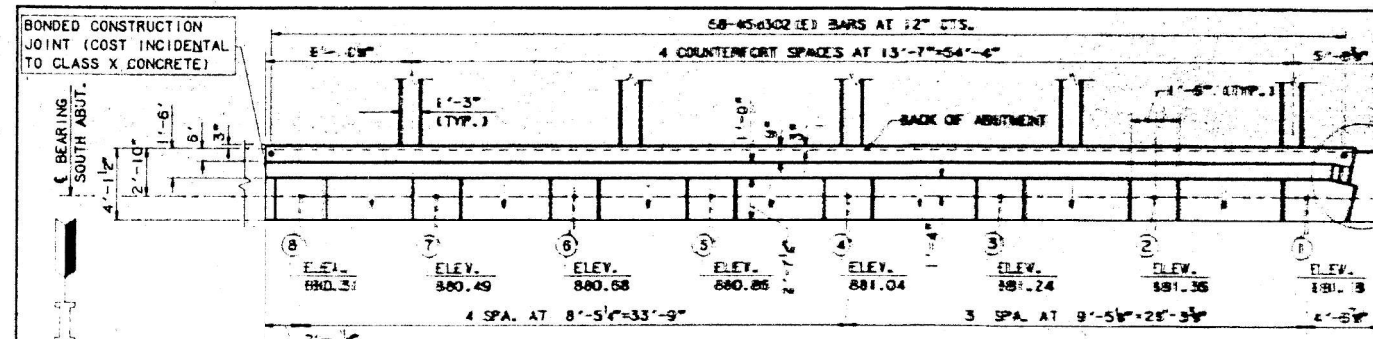
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PLOT SCALE =	CHECKED - AJN	REVISED -
PLOT DATE = 01/29/2024	DRAWN - AT, JK	REVISED -
	CHECKED - AJN	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

APPLICABLE AS-BUILT PLANS  
 STRUCTURE NO. 016-2599  
 SHEET 28 OF 32 SHEETS

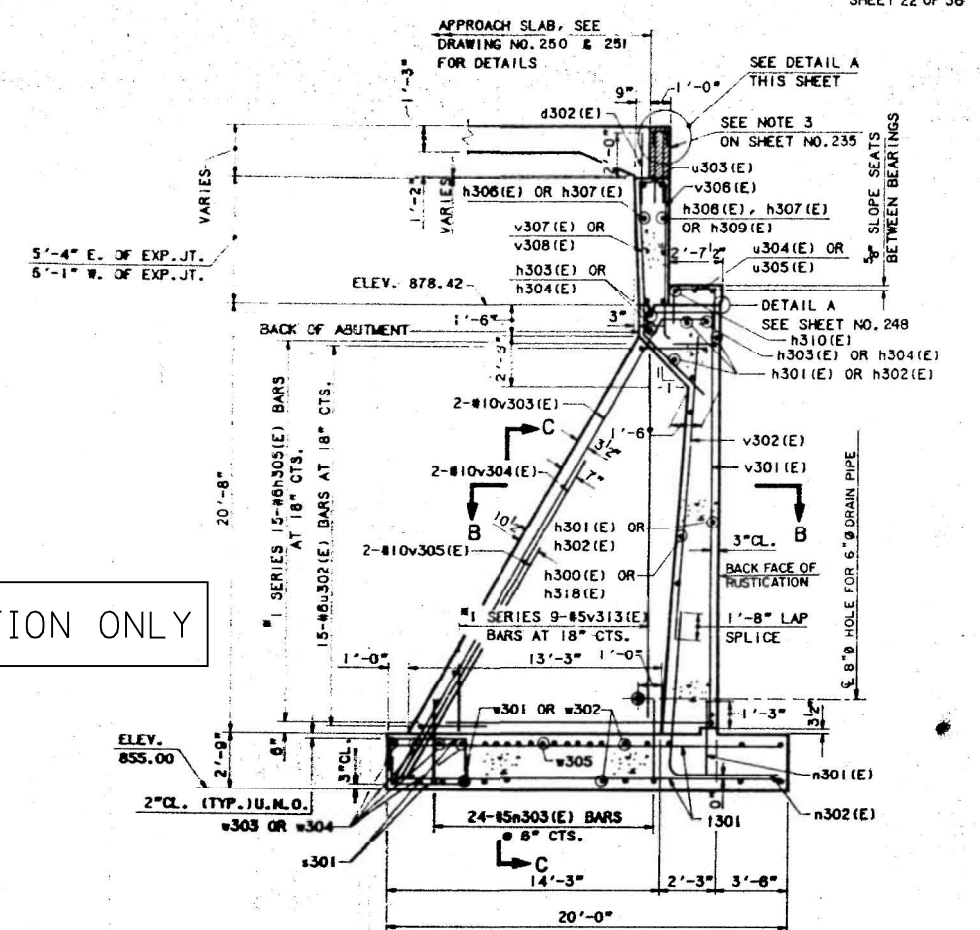
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2021-075-BDRS/BIR	COOK	86	64
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				





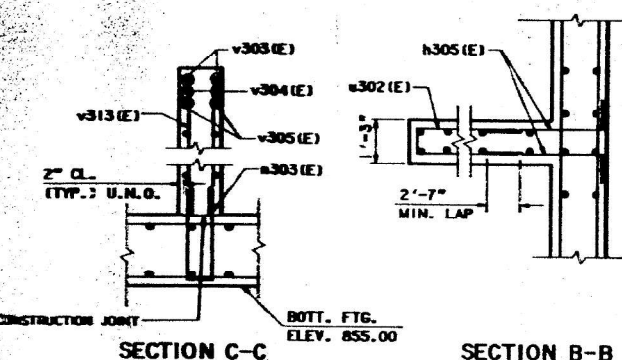
EXP. JT. IN WALL  
SEE SHT. NO. 247 FOR DETAIL  
TOP OF WALL  
ELEV. 888.42  
SW. RETAINING WALL

FOR INFORMATION ONLY



CUT BARS IN FIELD TO FIT SKEW AND USE REMAINDER IN OPPOSITE FACE

PLACE c301(E) BAR OR c302(E) BAR IN BACK OF ANCHOR BOLT AS SHOWN IF REQUIRED TO MAINTAIN 1" CL. (+0", -1/2"), OTHERWISE PLACE IN FRONT.



NOTES:  
1. SEE NOTES ON SHEET NO. 235  
2. U.N.O. - DENOTES UNLESS NOTED OTHERWISE

DRAWN: CADD  
CHECKED: P.P./KGN

DATE: 11-1-90  
SCALE: NTS

**HNTB**  
HOWARD NEEDLES TAMMEN & BERGENDOFF  
ARCHITECTS ENGINEERS PLANNERS

**THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY**  
EAST - WEST TOLLWAY AND MIDWEST ROAD  
OAK BROOK, ILLINOIS 60521

REVISIONS	
NO.	DATE

CONTRACT MIP-90-455  
SOUTH ABUTMENT WEST HALF  
ILL. RTE. 59 OVER NW. TOLLWAY  
DRAWING NO. 234 OF 380

MODEL: As-Built 10  
 FILE NAME: P:\040058-01-002 (ENG) - PTB-195-016 Phase II Var. VanEngineering\WO 18 - IL 59 over 1901500 Drawings\502 CADD Sheets\162P12-01.62595-As Built.dgn  
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PLOT SCALE =	CHECKED - AJN	REVISED -
PLOT DATE = 01/29/2024	DRAWN - AT, JK	REVISED -
	CHECKED - AJN	REVISED -

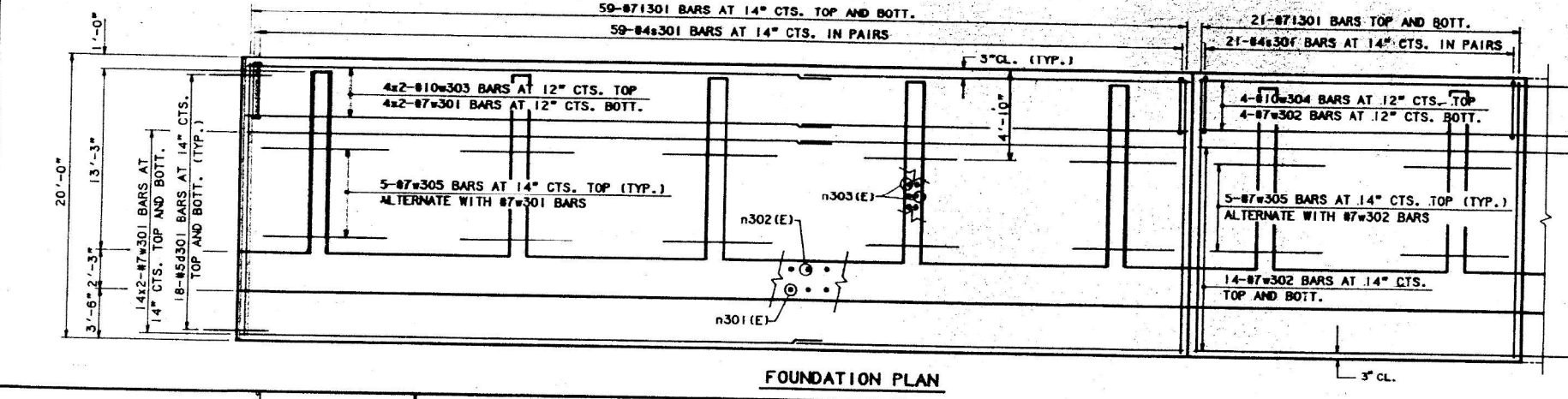
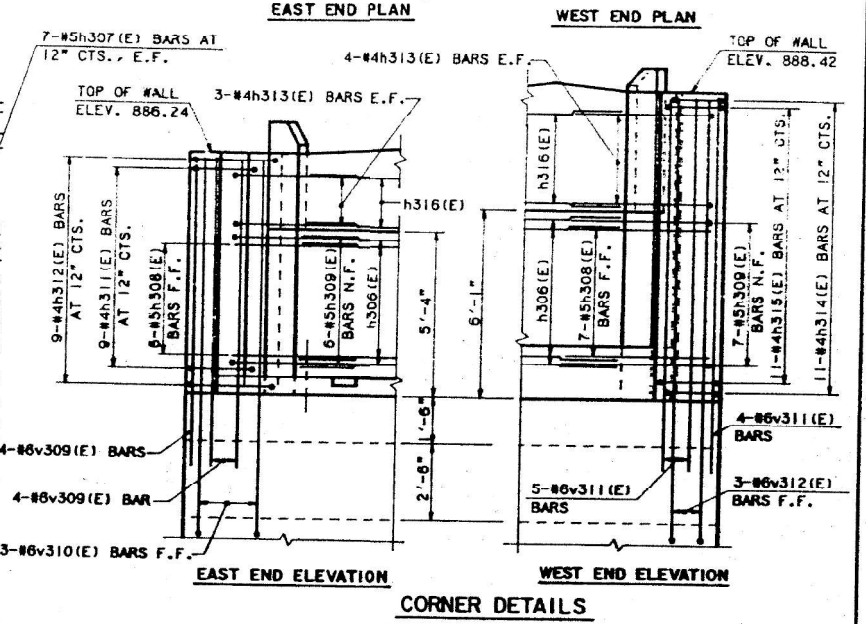
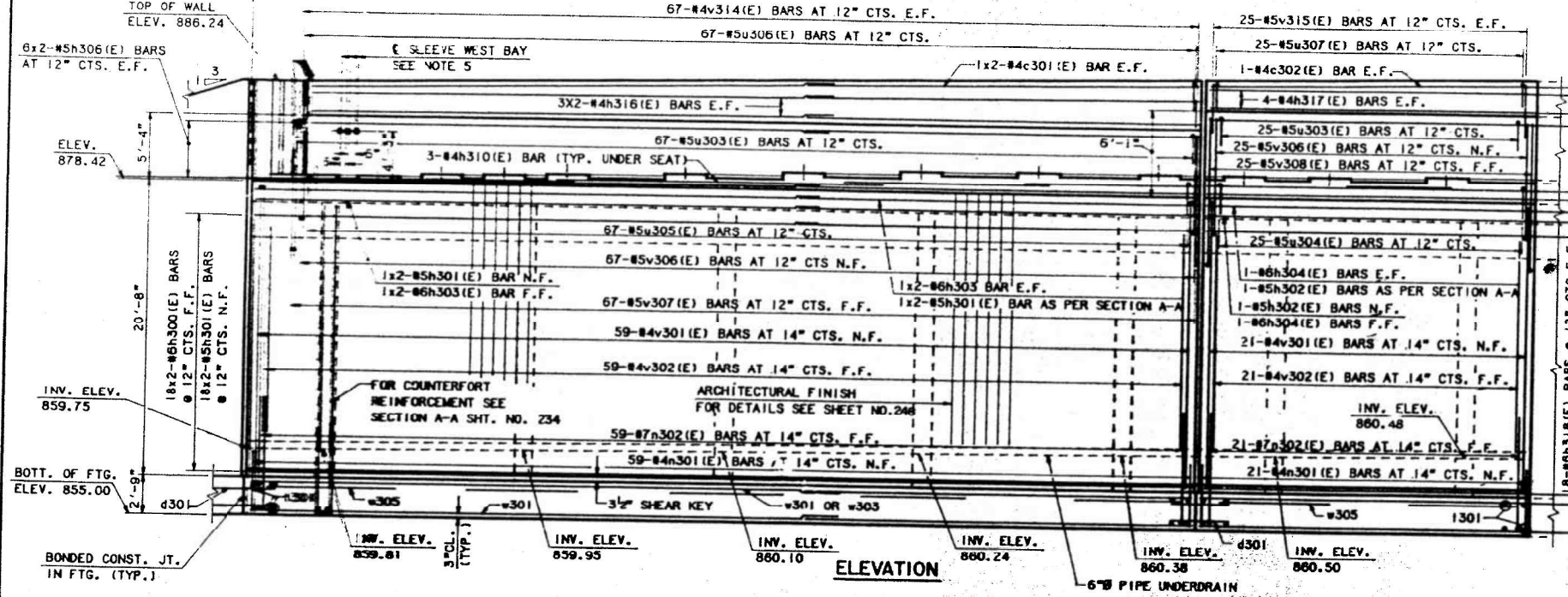
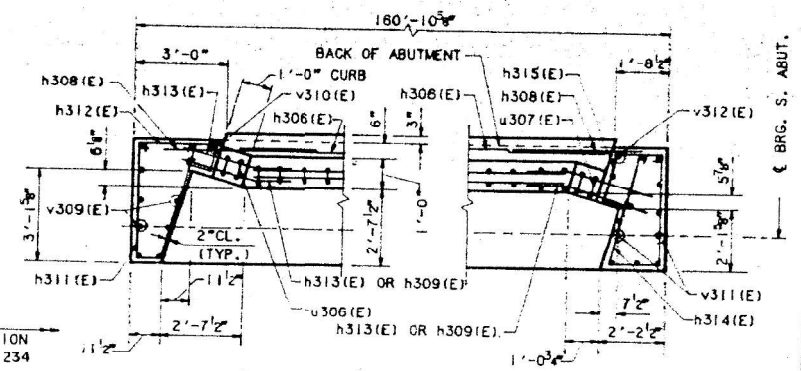
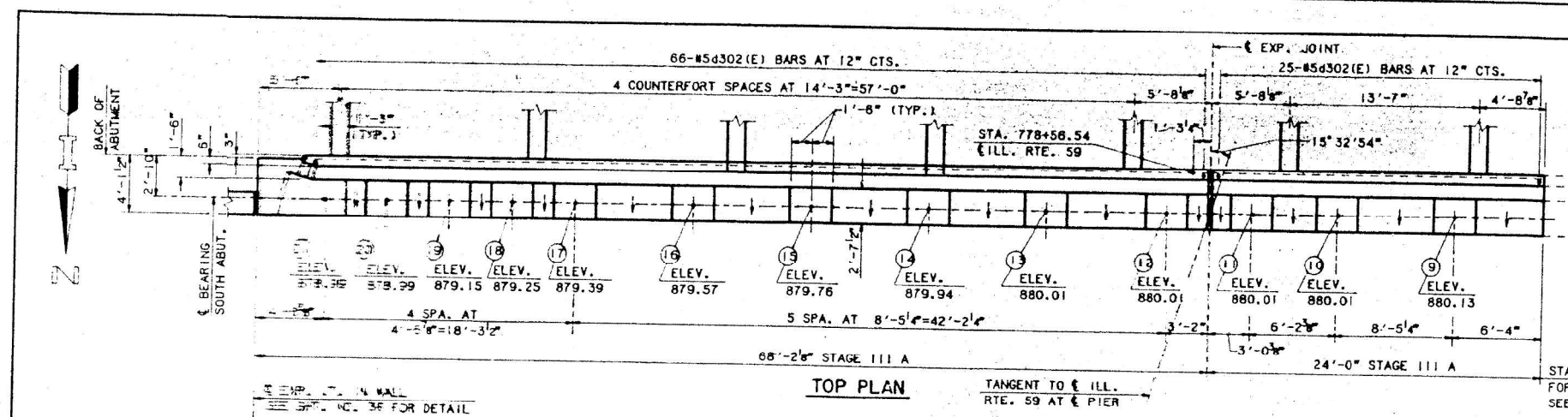
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPLICABLE AS-BUILT PLANS  
STRUCTURE NO. 016-2599

SHEET 29 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2021-075-BDR&BIR	COOK	86	65
CONTRACT NO.			62P12	
ILLINOIS FED. AID PROJECT				

MODEL: As-Built 11  
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FOR INFORMATION ONLY

**LEGEND**  
 N.F. - NEAR FACE  
 F.F. - FAR FACE  
 E.F. - EACH FACE

- NOTES:**
1. WORK THIS SHEET WITH SHEETS 234, 240 & 247.
  2. FOR BILL OF MATERIAL SEE SHEET 240.
  3. HATCHED AREA TO BE POURED AFTER SUPERSTRUCTURE FALSEWORK HAS BEEN REMOVED. QUANTITY OF CONCRETE INCLUDED WITH CLASS X CONCRETE SUPERSTRUCTURE.
  4. REINFORCING BARS DESIGNATED (E) SHALL BE EPOXY COATED.
  5. USE 4"Ø x 4'-3" SCHEDULE 40 P.V.C. PIPE FOR SLEEVES. CENTER BETWEEN BEAMS AND CAST INTO ABUTMENT. PLUG FOR FUTURE USE. COST INCIDENTAL TO CLASS X CONCRETE.
  6. ALLOWABLE SOIL BEARING PRESSURE 6.0 ksf (NET.)

DRAWN: CADD  
 CHECKED: D.D./KSW  
 DATE: 11-1-50  
 SCALE: NTS

**HNTB**  
 HOWARD NEEDLES TAMMEN & BERGENDOFF  
 ARCHITECTS ENGINEERS PLANNERS

**THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY**  
 EAST - WEST TOLLWAY AND MIDWEST ROAD  
 OAK BROOK, ILLINOIS 60521

REVISIONS	
NO.	DESCRIPTION

CONTRACT MIP-90-455	DRAWING NO.
SOUTH ABUTMENT EAST HALF	235 OF 380
ILL. RTE. 59 OVER NW. TOLLWAY	

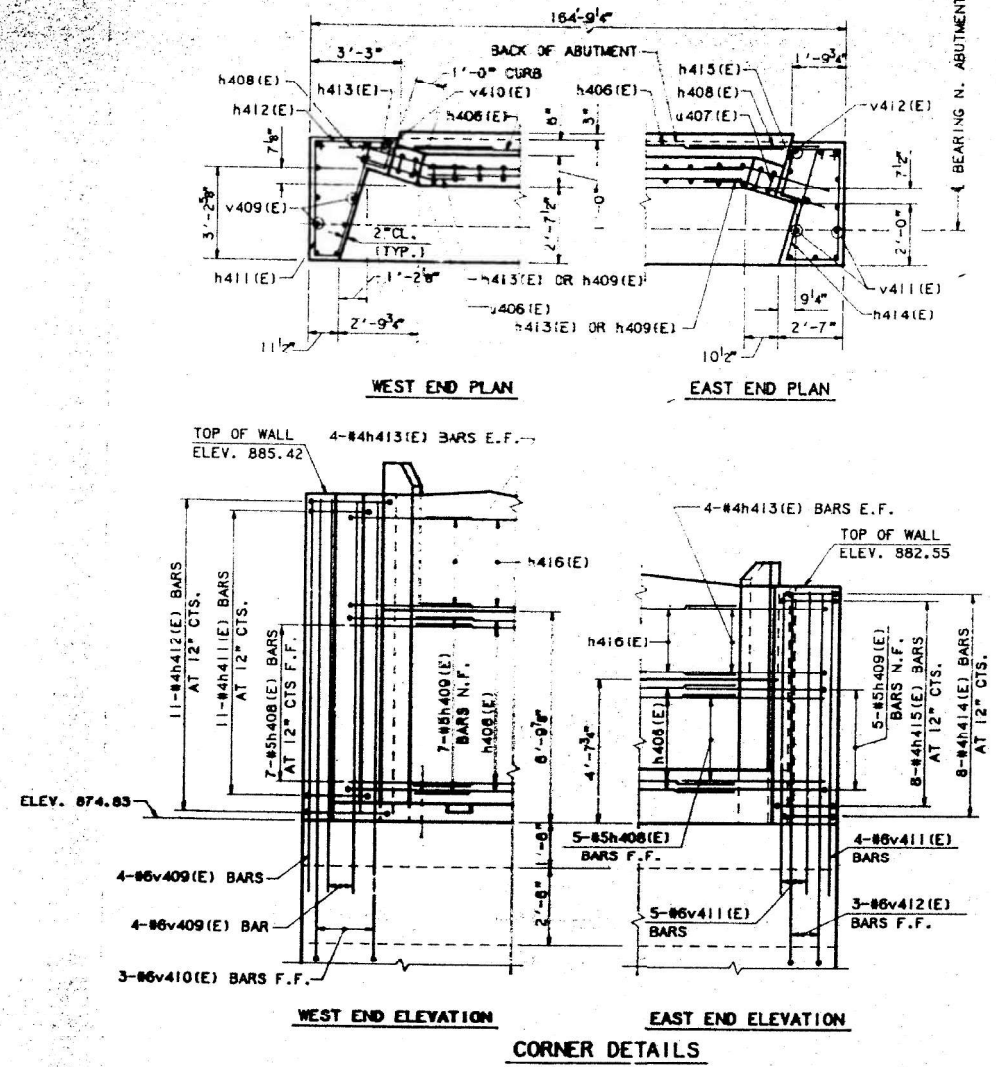
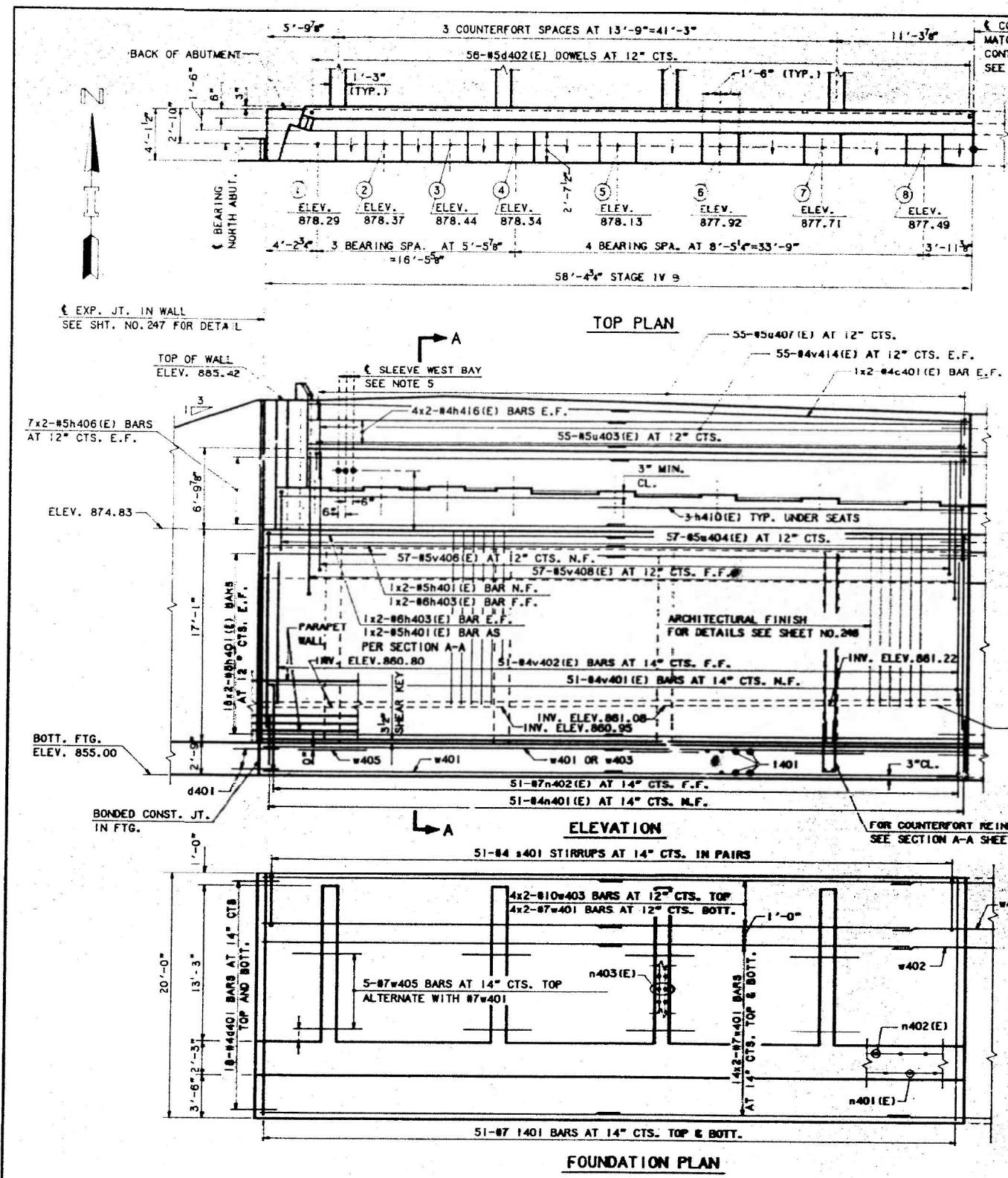
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 312-464-0300  
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PLOT SCALE =	CHECKED - AJN	REVISED -
PLOT DATE = 01/29/2024	DRAWN - AT, JK	REVISED -
	CHECKED - AJN	REVISED -

**STATE OF ILLINOIS**  
 DEPARTMENT OF TRANSPORTATION

**APPLICABLE AS-BUILT PLANS**  
 STRUCTURE NO. 016-2599

F.A.P. RTE. 338	SECTION 2021-075-BDRS/BJR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 66
CONTRACT NO. 62P12			ILLINOIS / FED. AID PROJECT	



FOR INFORMATION ONLY

**LEGEND**  
 N.F. - NEAR FACE  
 F.F. - FAR FACE  
 E.F. - EACH FACE  
 U.N.O. - UNLESS OTHERWISE NOTED

- NOTES:**
1. WORK THIS SHEET WITH SHEETS 239, 240 & 247.
  2. FOR BILL OF MATERIAL SEE SHEET 240.
  3. HATCHED AREA TO BE POURED AFTER SUPERSTRUCTURE FALSEWORK HAS BEEN REMOVED. QUANTITY OF CONCRETE INCLUDED WITH CLASS X CONCRETE SUPERSTRUCTURE.
  4. REINFORCING BARS DESIGNATED (E) SHALL BE EPOXY COATED.
  5. USE 6"Ø x 4'-3" SCHEDULE 40 P.V.C. PIPE FOR SLEEVES. CENTER BETWEEN BEAMS AND CAST INTO ABUTMENT. PLUG FOR FUTURE USE. COST INCIDENTAL TO CLASS X CONCRETE.
  6. ALLOWABLE SOIL BEARING PRESSURE 5.6 ksf (NET)

DRAWN <u>CARD</u> CHECKED <u>P.D./KGM</u>	DATE <u>11-1-90</u> SCALE <u>N.T.S.</u>	<b>HNTB</b> HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS	<b>THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY</b> EAST - WEST TOLLWAY AND MIDWEST ROAD OAK BROOK, ILLINOIS 60521	REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION				CONTRACT MIP-90-455 NORTH ABUTMENT WEST HALF ILL. RTE. 59 OVER NW. TOLLWAY	DRAWING NO. 238 OF 390
NO.	DATE	DESCRIPTION										

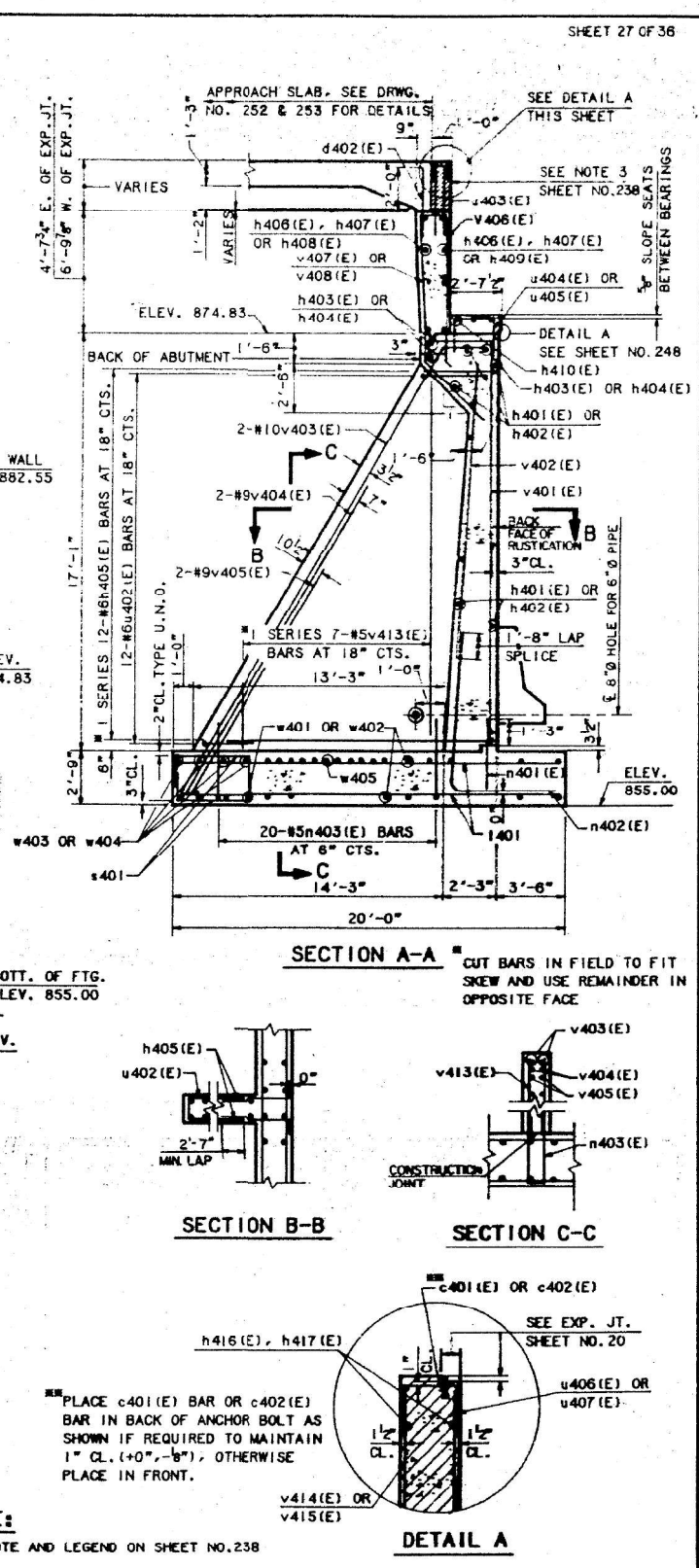
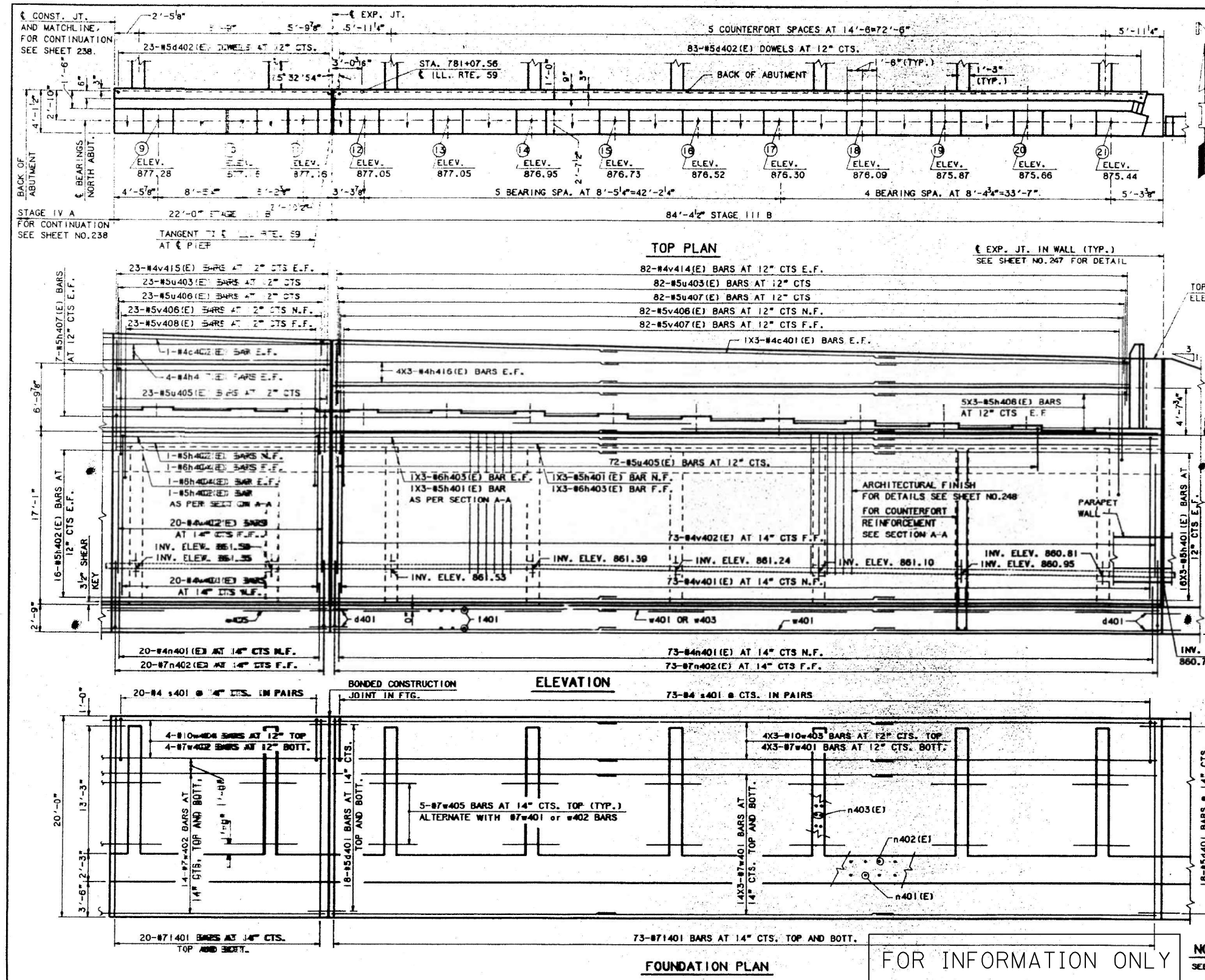
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 312-464-0360  
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PLOT DATE = 01/29/2024	DRAWN - AT, JK	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**APPLICABLE AS-BUILT PLANS**  
**STRUCTURE NO. 016-2599**

F.A.P. RTE. 338	SECTION 2021-075-BDRS/BJR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 67
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				



**NOTE:**  
SEE NOTE AND LEGEND ON SHEET NO. 238

DRAWN *CADP*  
CHECKED *D.D./KGN*

DATE 12-1-90  
SCALE NTS

**HNTB**  
HOWARD NEEDLES TAMMEN & BERGENDOFF  
ARCHITECTS ENGINEERS PLANNERS

**THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY**  
EAST - WEST TOLLWAY AND MIDWEST ROAD  
OAK BROOK, ILLINOIS 60521

REVISIONS	
NO.	DESCRIPTION

CONTRACT MIP-90-455  
NORTH ABUTMENT EAST HALF  
ILL. RTE. 59 OVER NW TOLLWAY

DRAWING NO.  
239 OF 380

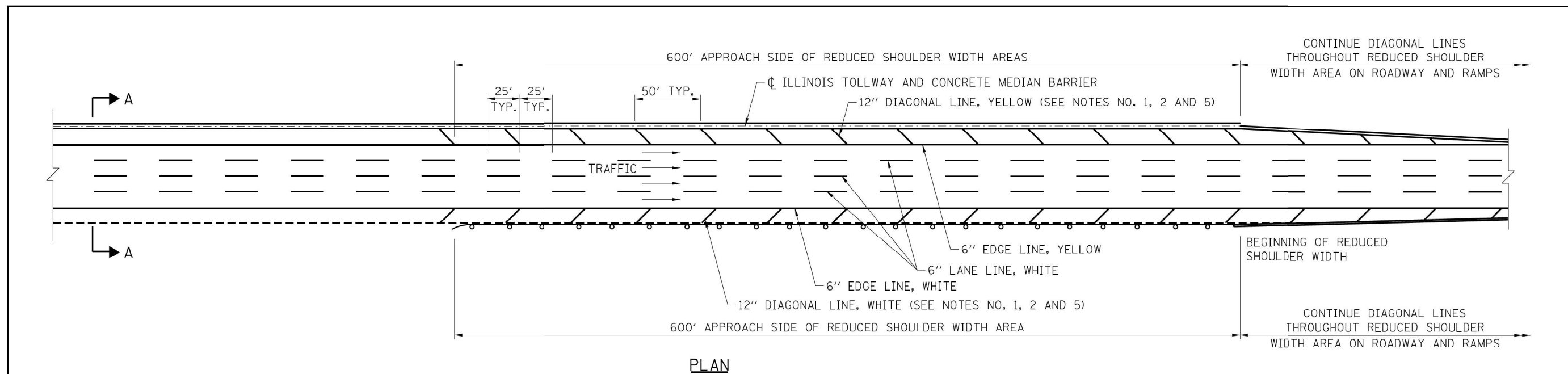
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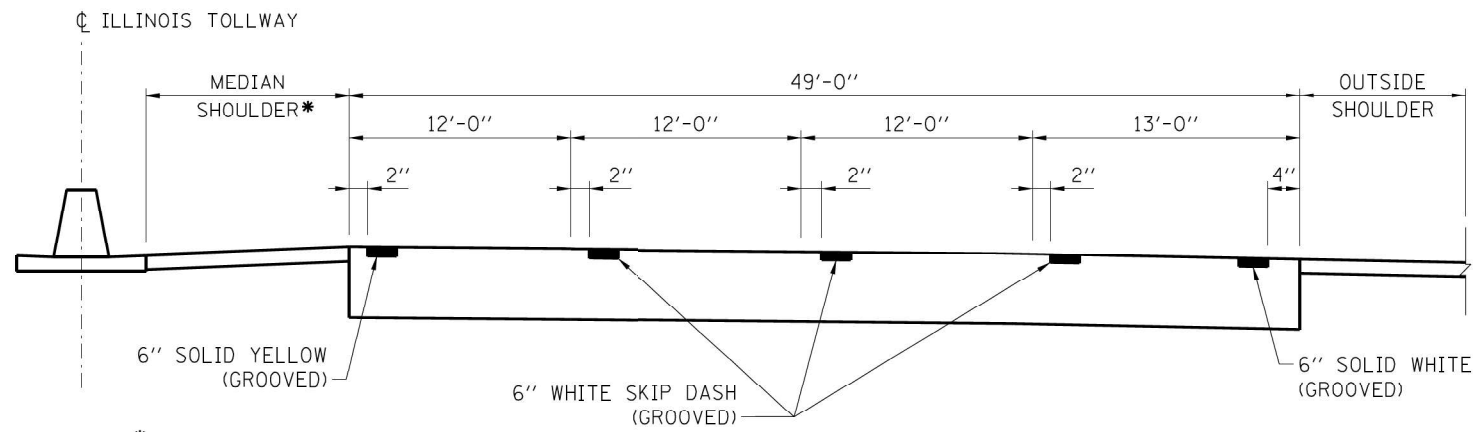
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

APPLICABLE AS-BUILT PLANS  
STRUCTURE NO. 016-2599

F.A.P. RTE. 338	SECTION 2021-075-BDRS/BJR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 68
CONTRACT NO. 62P12			ILLINOIS FED. AID PROJECT	

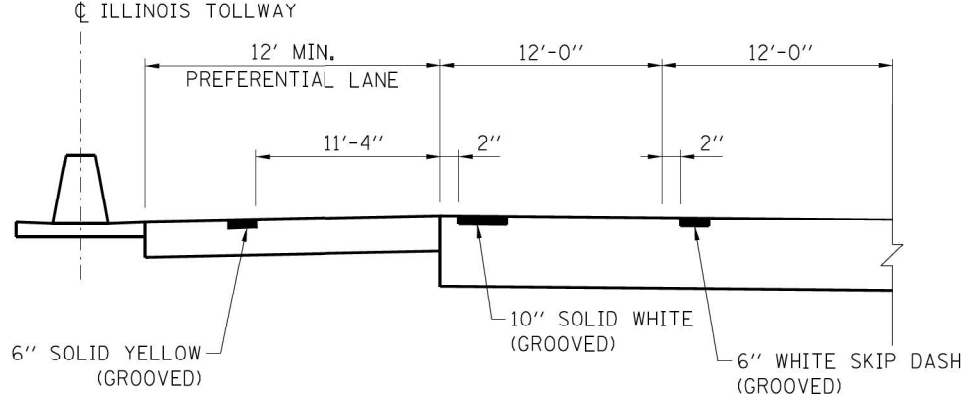


PLAN



SECTION A-A

ROADWAY AND SHOULDER STRIPING - NEW CONSTRUCTION



DETAIL A - PREFERRED LANE STRIPING

GENERAL NOTES:

- DIAGONAL SHOULDER STRIPING REQUIRED WHERE THE SHOULDER WIDTH IS LESS THAN STANDARD.
- ROADWAY MARKING MATERIALS TO BE USED ON FINISHED CONCRETE SURFACE AND ASPHALT SURFACE SHALL BE AS SHOWN ON THE PLANS.
- WHERE THE GUARDRAIL ENCROACHES ON THE SHOULDER THE DIAGONAL MARKINGS SHALL EXTEND AS CLOSE TO THE FACE OF THE RAIL AS POSSIBLE.
- ALL PERMANENT LANE LINES AND EDGE LINES SHALL BE GROOVED, ON ROADWAY SURFACES, UNLESS OTHERWISE NOTED.
- DIAGONAL STRIPING SHALL BE SURFACE APPLIED.
- GORE STRIPING (CHEVRON) SHALL BE SURFACE APPLIED.
- ALL LANE LINES AND EDGE LINES SHALL BE SURFACE APPLIED ON BRIDGES.
- PAVEMENT MARKINGS SHALL NOT BE GROOVED AT THE CASH SIDE OF MAINLINE TOLL PLAZAS OR THE OPEN ROAD TOLLING (ORT). 100' CONTINUOUSLY REINFORCED CONCRETE (CRC) PAVEMENT SECTION OF MAINLINE UNDER MONOTUBES.

DATE	REVISIONS
3-01-22	REVISED EDGE LINES TO 6"
3-01-21	ADDED PREF. LANE STRIPING
3-01-20	REVISED EDGF 1 INP TO BF 4" MIN.
3-31-16	REVISED NOTES
3-31-14	REVISED NOTES
11-01-12	REVISED EDGE LINE OFFSET, REVISED NOTES
2-07-12	REVISED NOTES
7-01-09	ADDED LINE GROOVING NOTES



**PERMANENT PAVEMENT MARKINGS MAINLINE**

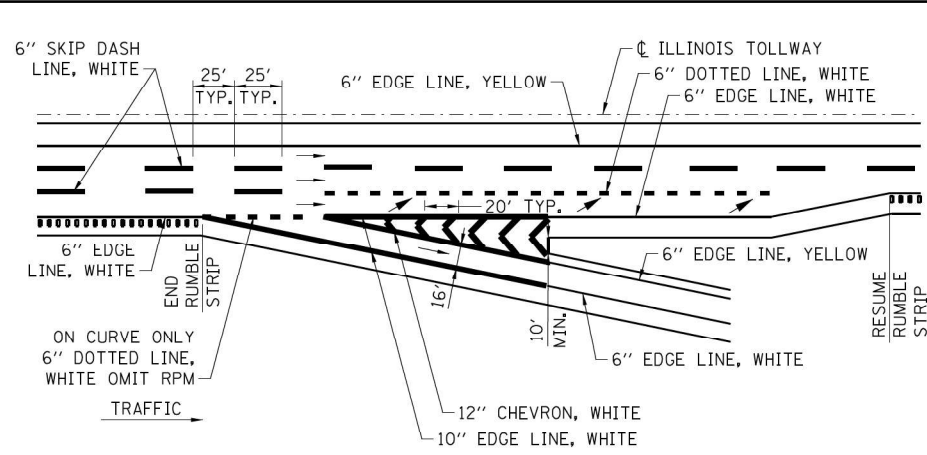
STANDARD D5-09

APPROVED: *Paul Kovacs* DATE: 7-1-2009  
CHIEF ENGINEERING OFFICER

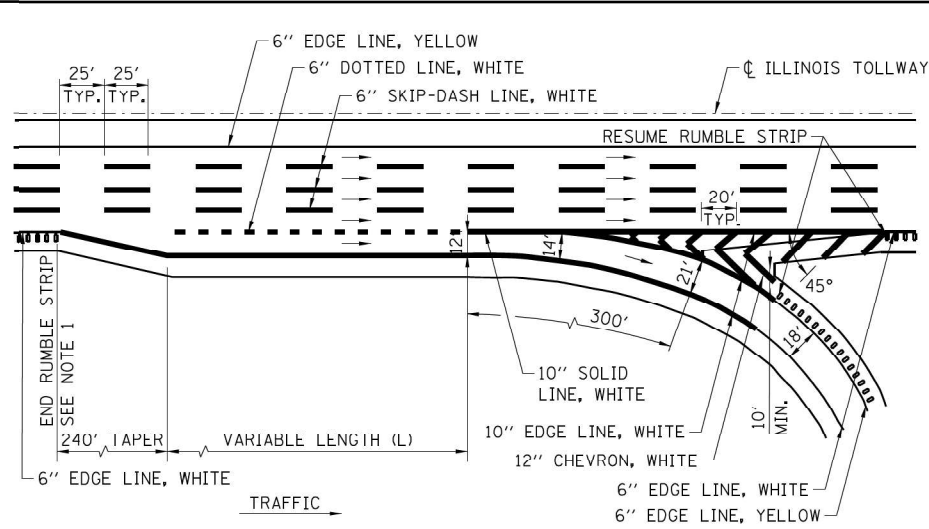
FOR RUMBLE STRIP DETAILS SEE STANDARD DRAWING D7

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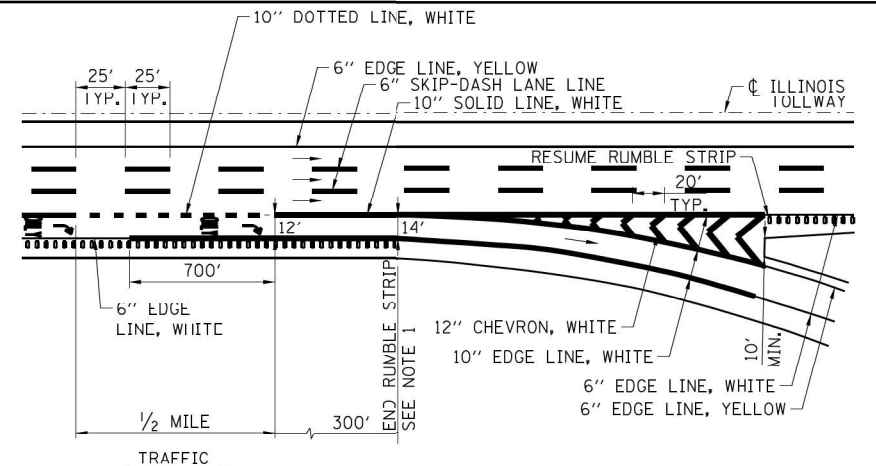
<b>Bowman</b> 311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606 312-474-0500 www.bowman.com	USER NAME = vvesco	DESIGNED - VV	REVISER -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ILLINOIS TOLLWAY STANDARD PERMANENT PAVEMENT MARKINGS MAINLINE</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2,000' / in.	CHECKED - AP	REVISER -						0338	2021-075-BDR&BR	COOK	86	69
	PLOT DATE = 01/29/2024	DATE - 01/29/2024	REVISER -		SCALE: SHEET OF SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT CONTRACT NO. 62P12				



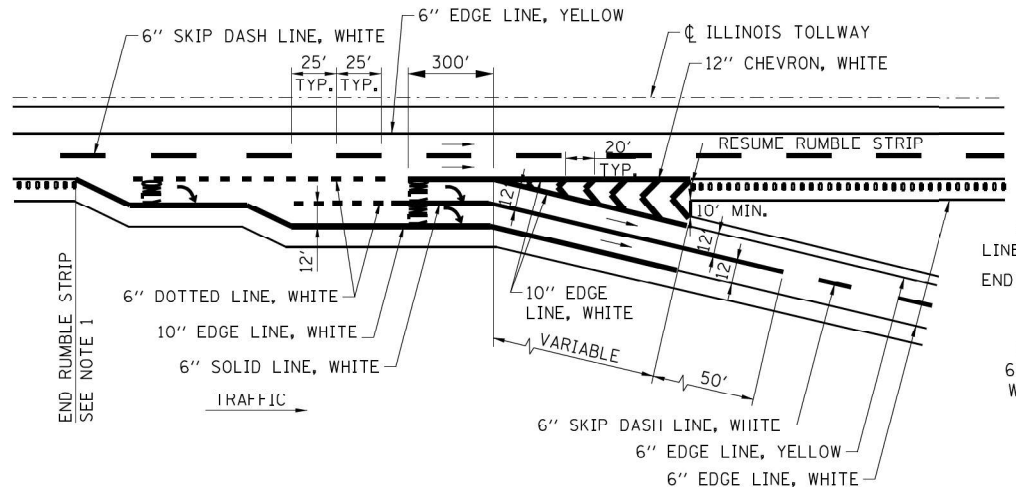
**EXIT - SINGLE LANE RAMP  
LANE THREE TERMINATION**



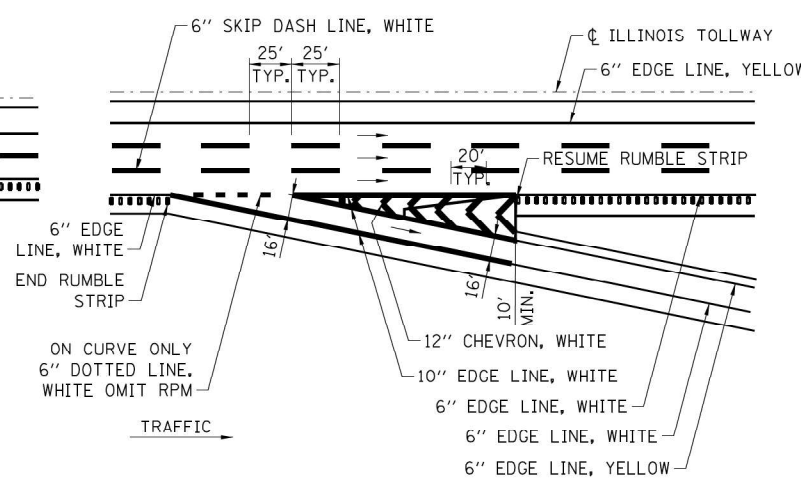
**EXIT - SINGLE LANE LOOP RAMP - PARALLEL TYPE**  
SEE SHEET 4 FOR SPEED REDUCTION MARKINGS



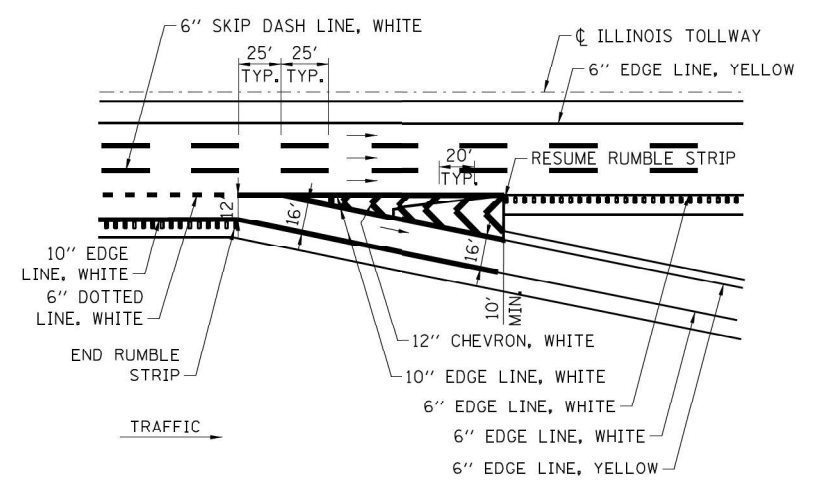
**EXIT - SINGLE LANE RAMP - LANE DROP**



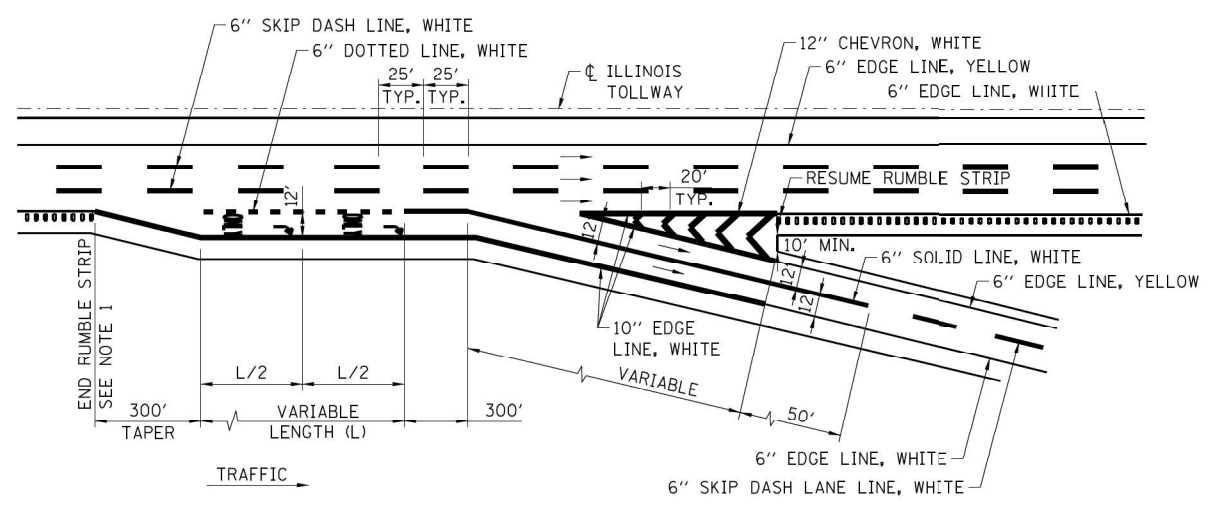
**EXIT - TWO LANE PARALLEL RAMP**



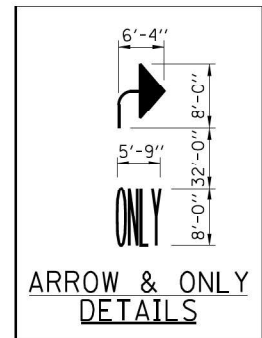
**EXIT - SINGLE LANE RAMP - TAPER TYPE**



**EXIT - SINGLE LANE RAMP WITH AUX LANE - TAPER TYPE**



**EXIT - TWO LANE RAMP**



**NOTE:**  
PAVEMENT MARKING LETTERS AND SYMBOLS-ONLY AND ARROW ARE TO BE TYPICALLY PLACED AT 1/2 MILE EXIT ONLY GUIDE SIGN, AT CORE EXIT GUIDE SIGN AND APPROXIMATELY HALFWAY BETWEEN THE TWO.

**GENERAL NOTES:**

- RUMBLE STRIPS SHALL BE INSTALLED BETWEEN THE THEORETICAL GORE AND TAPER WHEN LENGTHS (L) OF AUXILIARY LANES, ACCELERATION LANES OR DECELERATION LANES, ARE GREATER THAN 1000'.
- ROADWAY MARKING MATERIALS TO BE USED ON FINISHED CONCRETE SURFACE AND ASPHALT SURFACE SHALL BE AS SHOWN ON THE PLANS.
- ALL LANE LINES AND EDGE LINES SHALL BE GROOVED.
- GORE STRIPING (CHEVRON) SHALL BE SURFACE APPLIED.
- LETTERS AND SYMBOL MARKING SHALL BE SURFACE APPLIED.
- DOTTED LINES SHALL CONSIST OF 3' LINE AND 9' GAPS.

SHEET 1 OF 4



**PERMANENT PAVEMENT MARKINGS  
RAMPS**

**STANDARD D6-10**

DATE	REVISIONS
3-01-2022	REVISED EDGE LINES TO 6"
3-01-2021	ADD SPEED REDUCTION MARKING DETAIL AND MOVED RUMBLE STRIP DETAILS TO D7
3-01-2019	UPDATE DIMENSION FOR 1-LANE ENTRANCE & ADD 1-LANE EXIT TERMINAL WITH AUX LANE
3-31-2017	REVISED NOTES
3-31-2016	REVISED NOTES, ADDED IPO PAVEMENT MARKING DETAIL.

APPROVED: *Paul Kovacs* CHIEF ENGINEERING OFFICER DATE 7-1-2009

MODEL: D:\p\11... I:\50... DRAWING: 02... CAD: Sheets\02... 11-18-11... 50... 11-18-11... 50...



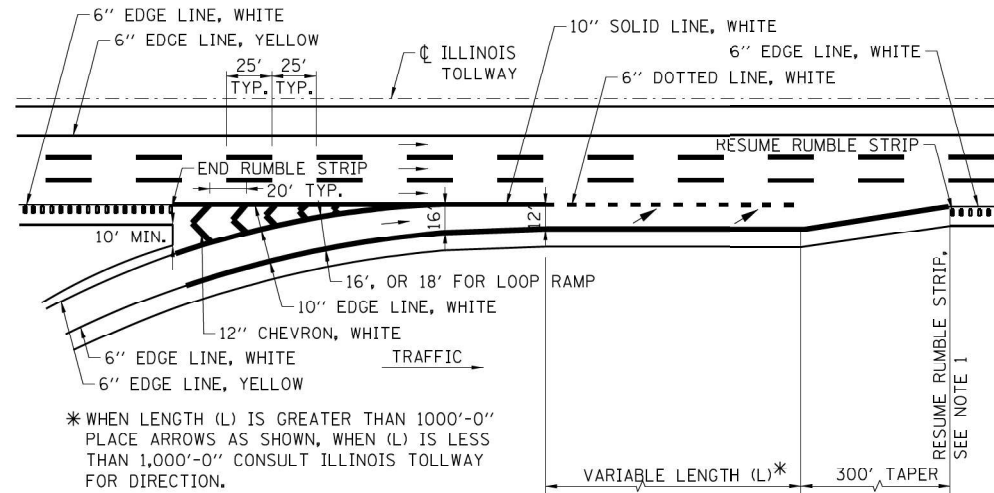
USER NAME = vvesco	DESIGNED - VV	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - VV	REVISED -
PLOT DATE = 01/29/2024	CHECKED - AP	REVISED -
	DATE - 01/29/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS TOLLWAY STANDARD  
PERMANENT PAVEMENT MARKINGS RAMPS**

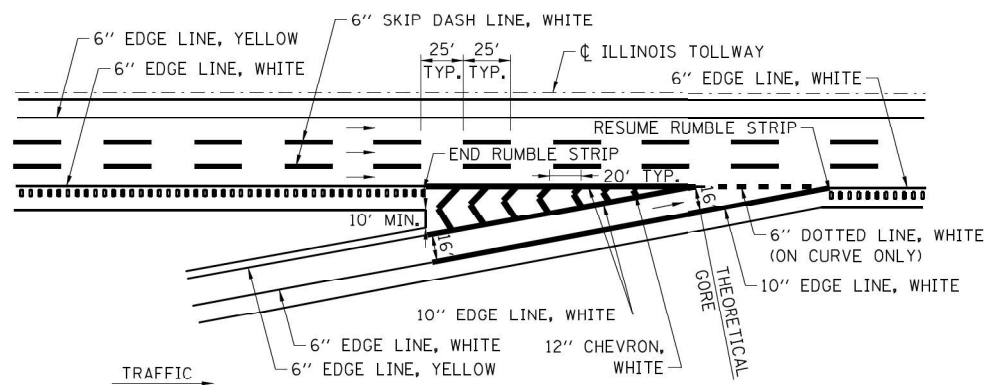
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 0338	SECTION 2021-075-BDR&BR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 70
ILLINOIS FED. AID PROJECT				CONTRACT NO. 62P12

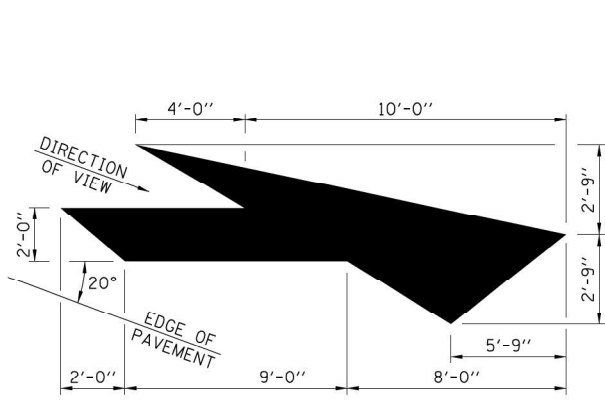


\* WHEN LENGTH (L) IS GREATER THAN 1000'-0"  
PLACE ARROWS AS SHOWN, WHEN (L) IS LESS  
THAN 1,000'-0" CONSULT ILLINOIS TOLLWAY  
FOR DIRECTION.

**ENTRANCE - SINGLE LANE RAMP - PARALLEL TYPE**

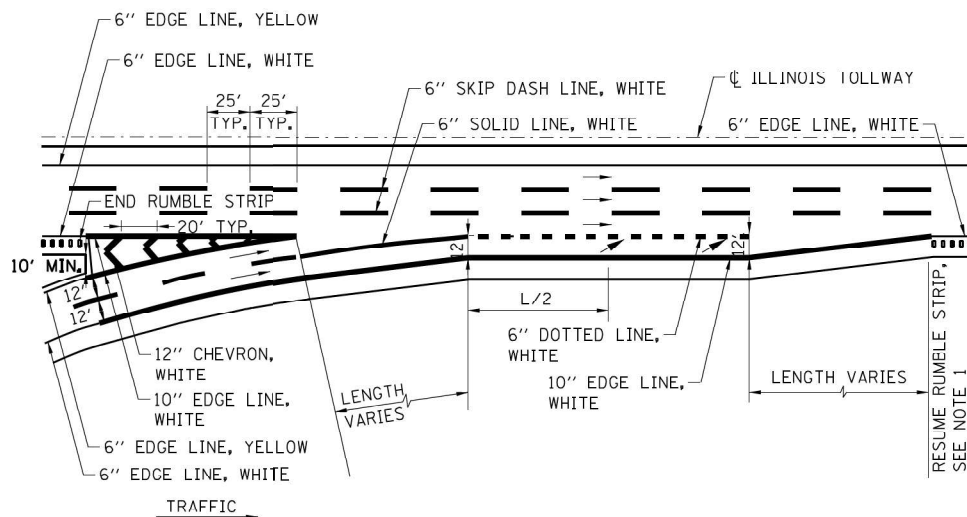


**ENTRANCE - SINGLE LANE RAMP - TAPER TYPE**

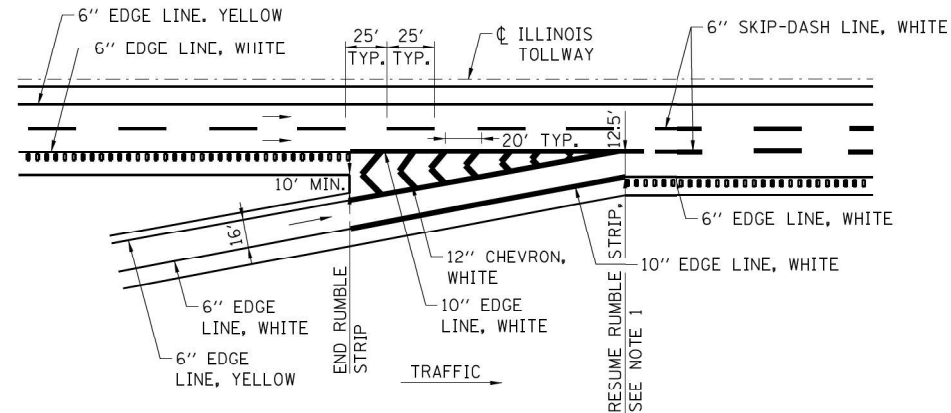


**LANE-REDUCTION ARROW**

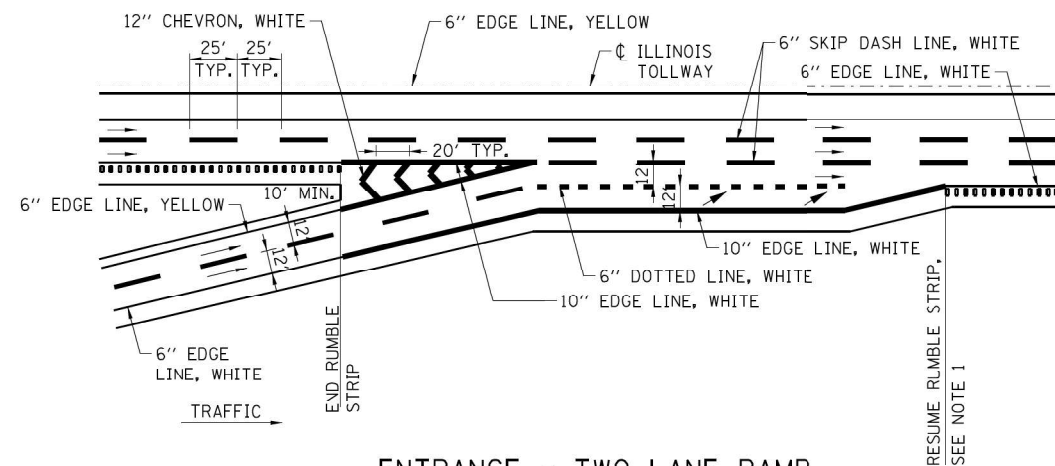
RIGHT LANE-REDUCTION ARROW SHOWN.  
USE MIRROR IMAGE FOR LEFT LANE.



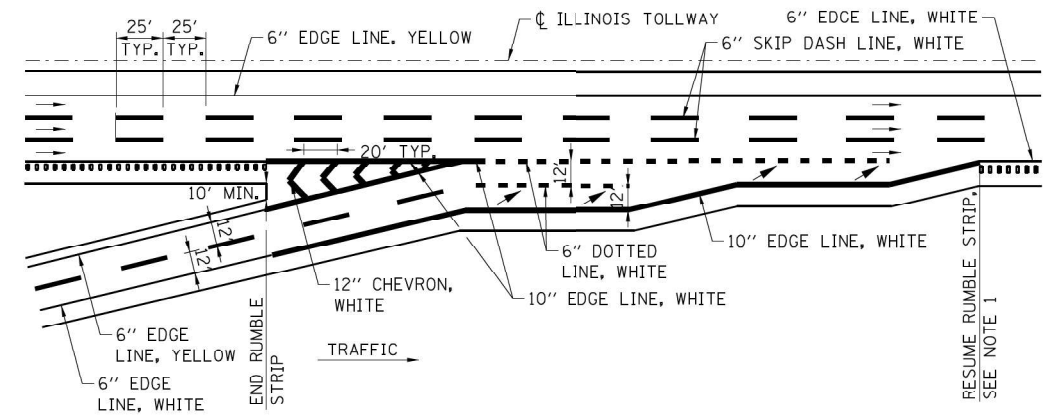
**ENTRANCE - TWO LANE RAMP**



**ENTRANCE - SINGLE LANE RAMP  
WITH ADDED MAINLINE LANE**



**ENTRANCE - TWO LANE RAMP  
WITH ADDED MAINLINE LANE**



**ENTRANCE - TWO LANE PARALLEL RAMP**

SHEET 2 OF 4

*Paul Kovacs*  
APPROVED ..... DATE 7-1-2009  
CHIEF ENGINEERING OFFICER

SEE SHEET 1 IN  
THIS SERIES FOR  
GENERAL NOTES.



PERMANENT PAVEMENT MARKINGS  
RAMPS

STANDARD D6-10

MODEL: D:\dwg\...  
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 MODEL: D:\dwg\...  
 FILE NAME: P:\000089...



USER NAME = vvesco	DESIGNED - VV	REVISED -
DRAWN - VV	REVISIONS -	
CHECKED - AP	REVISIONS -	
DATE - 01/29/2024	REVISIONS -	

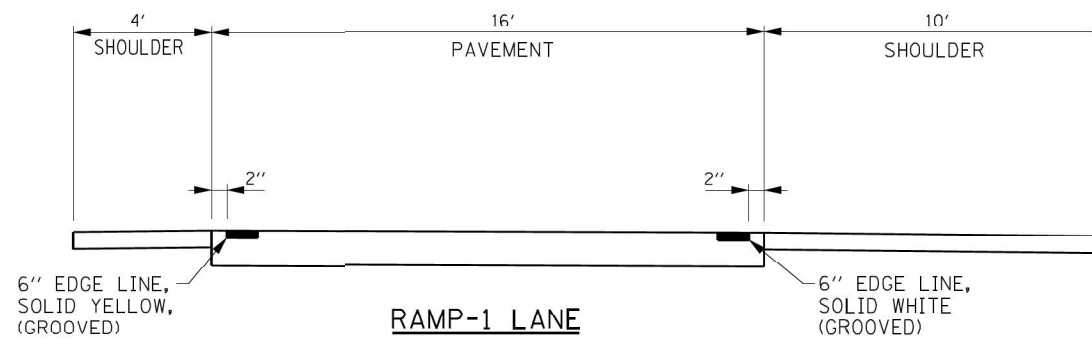
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ILLINOIS TOLLWAY STANDARD  
PERMANENT PAVEMENT MARKINGS RAMPS

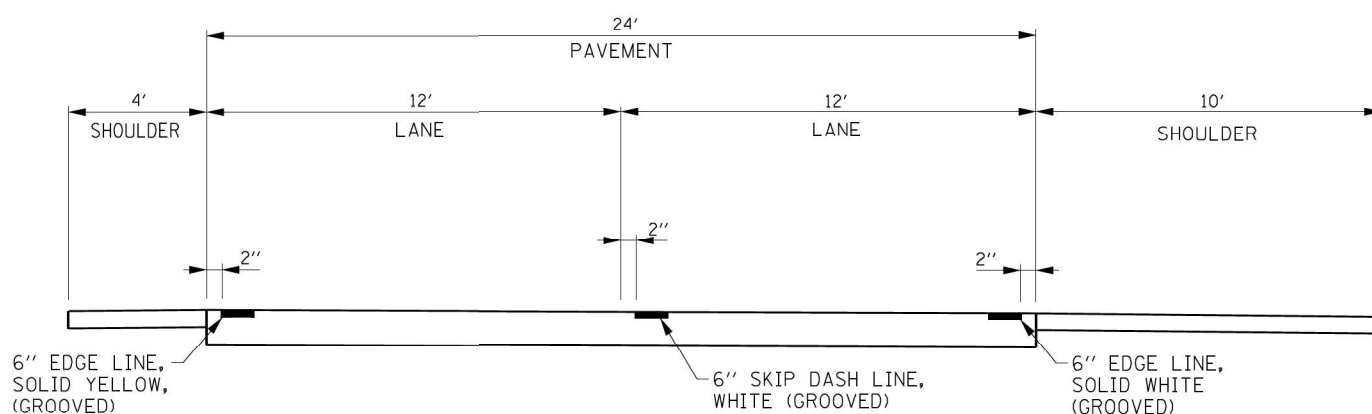
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BR	COOK	86	71
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				

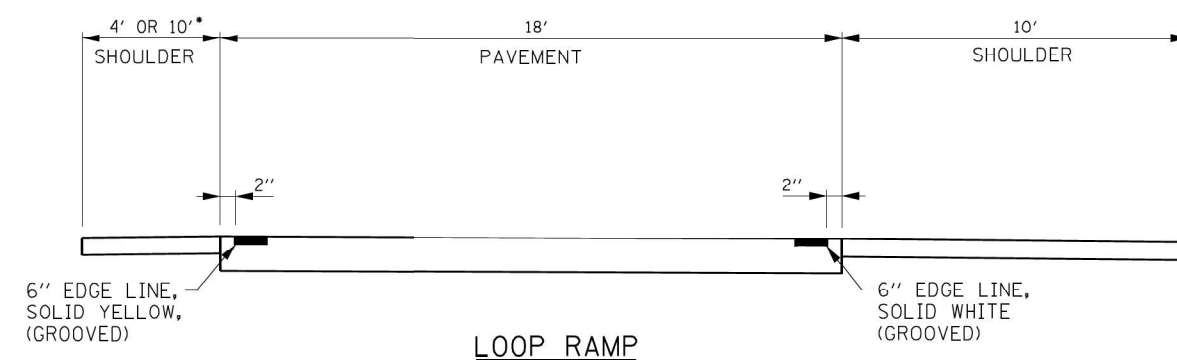
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**RAMP-1 LANE**

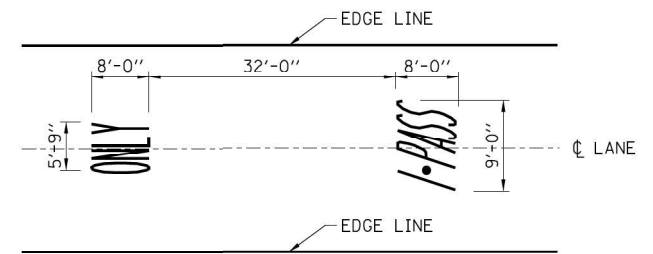


**RAMP-2 LANES**



**LOOP RAMP**

\* RUMBLE STRIP SHALL BE ADDED WHEN ALONG EXIT LOOP RAMP AND LEFT SHOULDER IS 10' WIDE



**IPO LANE PAVEMENT MARKING**

APPROVED: *Paul Kovacs* DATE: 7-1-2009  
 CHIEF ENGINEERING OFFICER

SHEET 3 OF 4

<b>PERMANENT PAVEMENT MARKINGS RAMPS</b>	
<b>STANDARD D6-10</b>	

SEE SHEET 1 IN THIS SERIES FOR GENERAL NOTES.



USER NAME = vvesco	DESIGNED - VV	REVISED -
DRAWN - VV	REVISIONS -	
PLOT SCALE = 2,000' / in.	CHECKED - AP	REVISED -
PLOT DATE = 01/29/2024	DATE - 01/29/2024	REVISED -

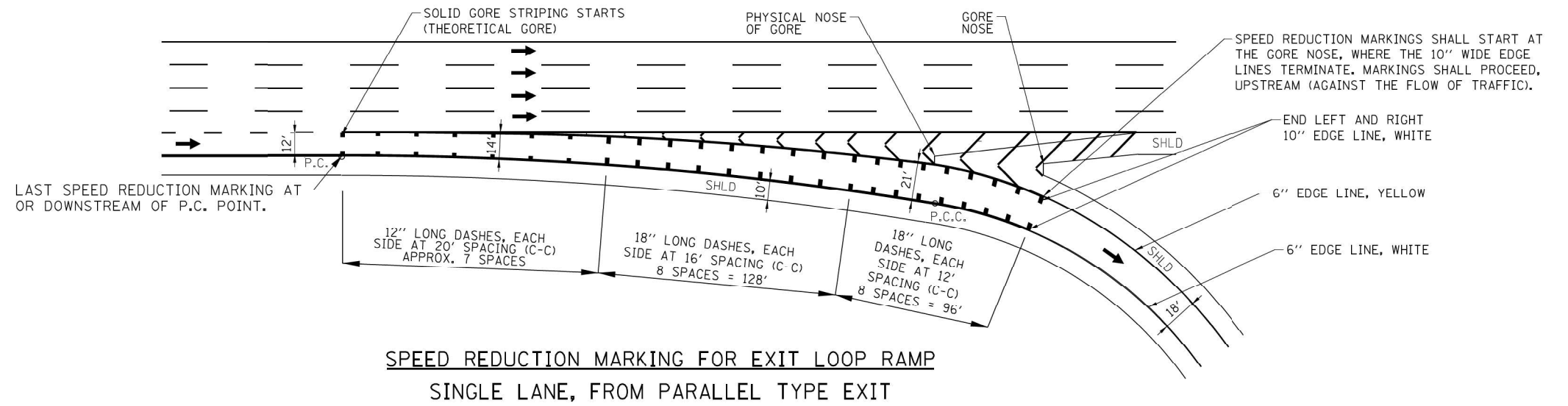
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS TOLLWAY STANDARD  
PERMANENT PAVEMENT MARKINGS RAMPS**

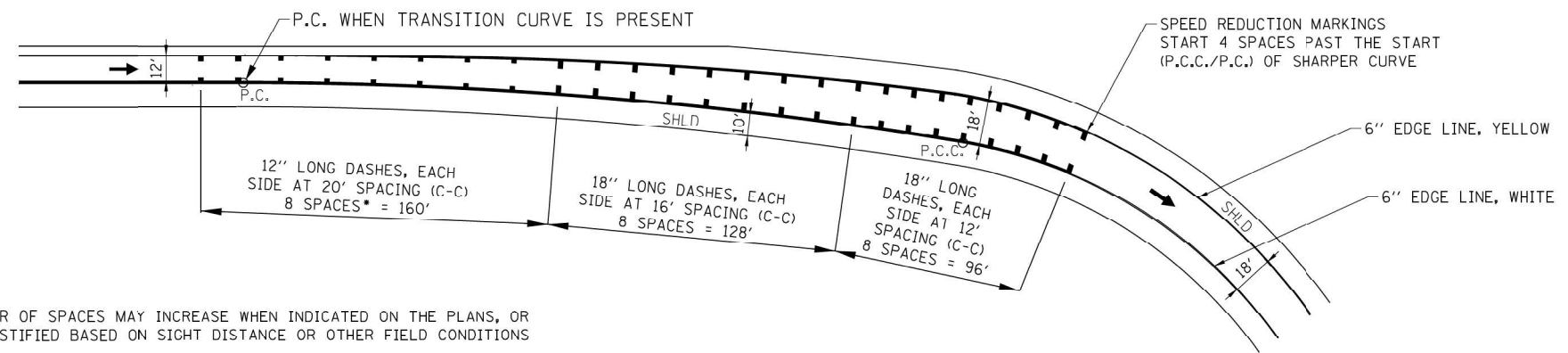
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	72
CONTRACT NO. 62P12				
		ILLINOIS	FED. AID PROJECT	



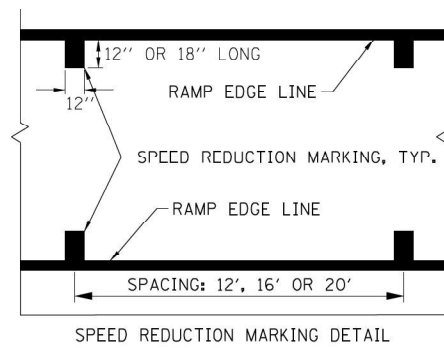


**SPEED REDUCTION MARKING FOR EXIT LOOP RAMP  
SINGLE LANE, FROM PARALLEL TYPE EXIT**



• NUMBER OF SPACES MAY INCREASE WHEN INDICATED ON THE PLANS, OR WHEN JUSTIFIED BASED ON SIGHT DISTANCE OR OTHER FIELD CONDITIONS

**SPEED REDUCTION MARKING FOR EXIT LOOP RAMP  
SINGLE LANE, FROM C-D ROAD**



**SPEED REDUCTION MARKING NOTES:**

SR-1. SPEED REDUCTION MARKINGS SHALL BE WHITE IN COLOR, BE 12" WIDE AND BE PLACED PERPENDICULAR TO THE EDGE LINE. THE MARKINGS SHALL TOUCH THE EDGE LINE AND EXTEND INTO THE LANE BY THE LENGTH INDICATED. THE MARKINGS ARE NOT GROOVED INTO THE PAVEMENT.

SR-2. SPACINGS SHALL VARY FROM LONGER SPACES TO SHORTER SPACES IN THE DIRECTION OF TRAFFIC. THE SPACES SHALL BE MEASURED ALONG THE RAMP BASELINE AND SHALL BE AS INDICATED ON THE DETAIL.

SR-3. SPEED REDUCTION MARKINGS SHALL ONLY BE USED ON EXIT LOOP RAMPS. PAYMENT FOR SPEED REDUCTION MARKINGS WILL BE FOR PAVEMENT MARKING LINE, 12" OF THE PERMANENT PAVEMENT MARKING TYPE USED ON THE RAMP.

SR-4. THIS DETAIL SHOWS PLACEMENT OF SPEED REDUCTION MARKINGS, FOR PLACEMENT AND TYPE OF EDGE LINES AND OTHER RAMP PAVEMENT MARKINGS, REFER TO OTHER DETAILS ON THE STANDARD DRAWINGS AND PLANS.

*Paul Kovacs*  
APPROVED ..... CHIEF ENGINEERING OFFICER DATE 7-1-2009

**PERMANENT PAVEMENT MARKINGS  
RAMPS**

STANDARD D6-10

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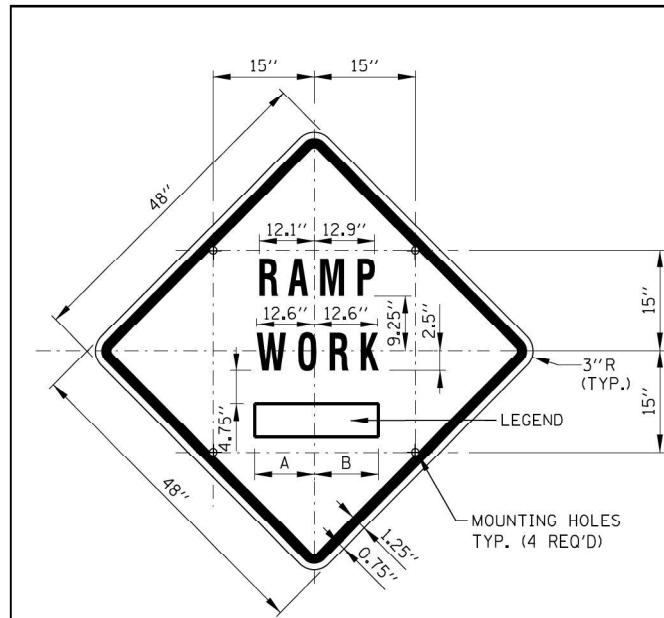
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DRAWN - VV	REVISIONS -	
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PLOT DATE = 01/29/2024	DATE - 01/29/2024	REVISIONS -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS TOLLWAY STANDARD  
PERMANENT PAVEMENT MARKINGS RAMPS**

SCALE: SHEET OF SHEETS STA. TO STA.

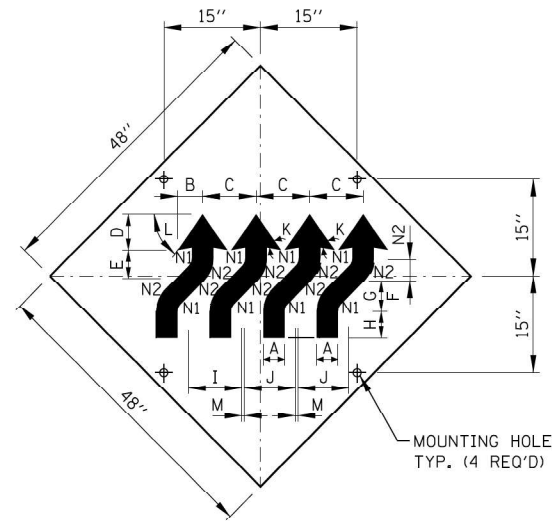
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	73
				CONTRACT NO. 62P12
				ILLINOIS FED. AID PROJECT



SIGN TS-2 (O)

COLOR: BACKGROUND - FLUORESCENT ORANGE (O)  
 BORDER AND SYMBOL - BLACK  
 SIZE: 48"x48"  
 LETTERING: 7" FEDERAL SERIES D  
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN

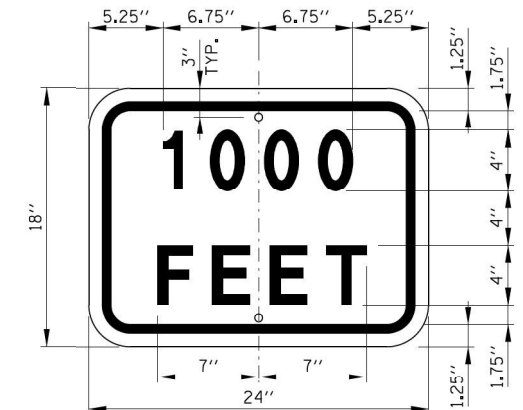
SIGN NO.	LEGEND	A	B
TS-2A	AHEAD	15.50"	15.50"
TS-2B	500 FT	14.25"	15.13"
TS-2C	1000 FT	14.88" L2	15.75" L2
TS-2D	1500 FT	14.88" L2	15.75" L2
TS-2E	1/2 MILE	15.75" L3	15.75" L3
TS-2F	1 MILE	13.06"	13.06"



SIGN W1-4dR (O)

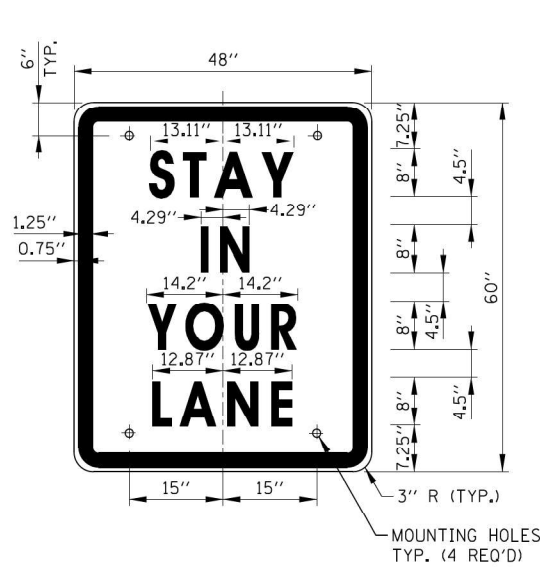
COLOR: BACKGROUND-FLUORESCENT ORANGE (O)  
 TYPE A REFLECTIVE  
 SHEETING PER STANDARD  
 SPECIFICATIONS (\*A)  
 BORDER AND LETTERS-BLACK  
 SIZE: 48"x48"  
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN.

A	4 1/2"
B	5 3/4"
C	12 1/2"
D	7 3/4"
E	6 1/2"
F	4 1/2"
G	6 1/2"
H	6"
I	12 3/4"
J	12"
K	45°
L	55°
M	3/4"
N1	2"
N2	6 1/2"



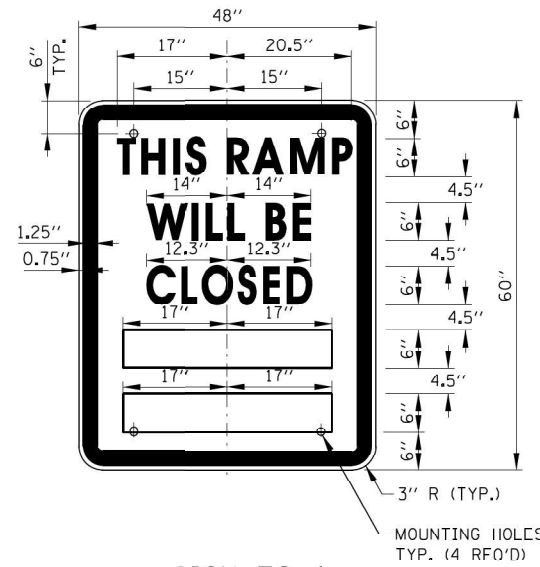
SUPPLEMENTAL PLATE (O)

COLOR: BACKGROUND - FLUORESCENT ORANGE (O)  
 BORDER AND LETTERS - BLACK  
 SIZE: 24"x18"  
 LETTERING: 4" FEDERAL SERIES D  
 MOUNTING HOLES: 1/16" DIA., 2 HOLES SPACED AS SHOWN



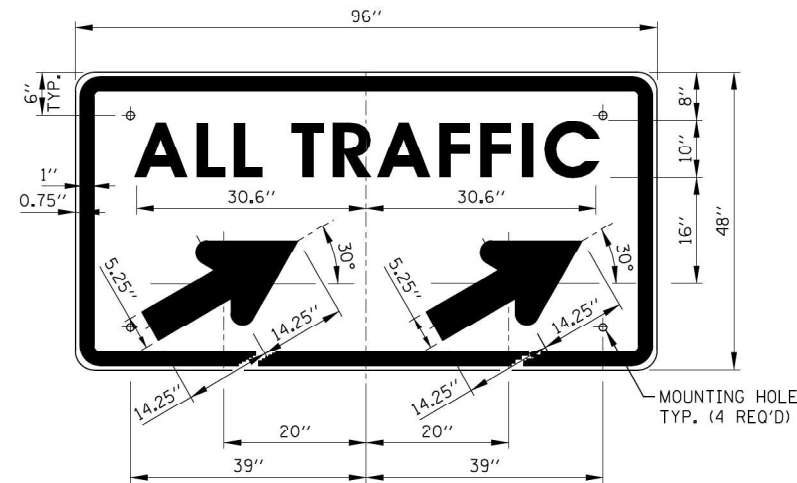
SIGN TS-3

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (\*A)  
 BORDER AND LETTERS - BLACK  
 SIZE: 48"x60"  
 LETTERING: LEGEND - 8" FEDERAL SERIES D  
 MOUNTING HOLES: 7/16" DIA., 4 HOLES, SPACED AS SHOWN



SIGN TS-4

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (\*A)  
 BORDER AND LETTERS - BLACK  
 SIZE: 48"x60"  
 LETTERING: LEGEND - 6" FEDERAL SERIES C  
 MOUNTING HOLES: 7/16" DIA., 4 HOLES, SPACED AS SHOWN



SIGN TS-5a & TS-5b

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (\*A)  
 BORDER AND LETTERS - BLACK  
 ARROW - BLACK  
 SIZE: 96"x48"  
 LETTERING: 10" FEDERAL SERIES D  
 MOUNTING HOLES: 7/16" DIA., 4 HOLES, SPACED AS SHOWN  
 NOTE: SIGN TS-5a IS SHOWN, SUBSTITUTE LEGEND "↗" FOR "↘" FOR SIGN TS-5b

NOTES:

- ALL LETTERING IS DESIGNATED BY SIZE AND SERIES IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. LETTERING SPACING SHALL BE IN ACCORDANCE WITH THIS GUIDE EXCEPT WHERE NOTED.
- SYMBOLS AND ARROWS SHALL CONFORM TO THE DETAILS SHOWN IN THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
- SEE THE CONTRACT REQUIREMENTS FOR ADDITIONAL NOTES AND SPECIFICATIONS.  
 (O) FLUORESCENT ORANGE REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.  
 (\*A) - REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.
- DIMENSIONS INDICATED THUS L ARE BASED ON A REDUCTION IN STANDARD LETTERING SPACING AS SHOWN BELOW:  
 L1 SPACING REDUCED BY 25%  
 L2 SPACING REDUCED BY 40%  
 L3 SPACING REDUCED BY 50%

SHEET 1 OF 2

APPROVED: *Paul Kovacs* DATE 5-1-2009  
 CHIEF ENGINEERING OFFICER

DATE	REVISIONS
3-01-2019	REMOVED STANDARD IDOT SIGNS, REVISED WZSL ASSEMBLY, ADDED WZSL TRANSITION
3-31-2017	REVISED END WZSL SIGN COLOR
3-11-2015	REVISED NOTES
03-31-14	REVISED FINE SIGN NUMBER AND ADDED LED SPEED LIMIT DISPLAY
11-01-12	DELETED SIGN TS-1

**Illinois Tollway**

CONSTRUCTION SIGNS

STANDARD E1-07

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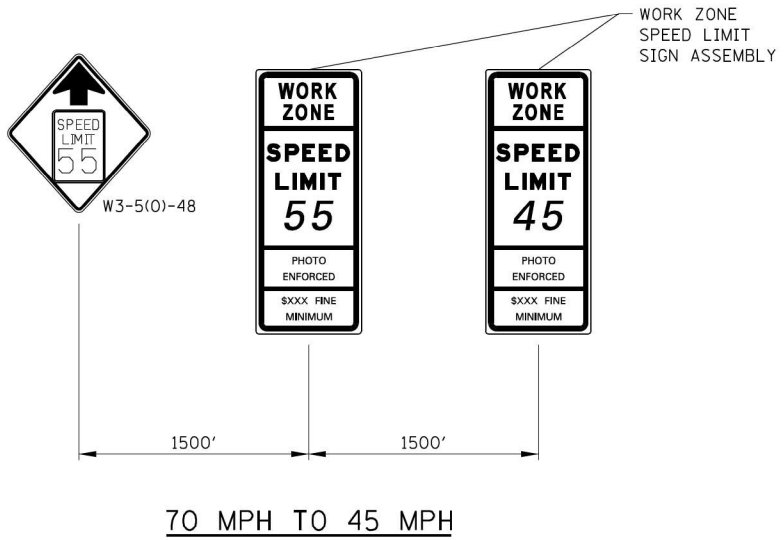


USER NAME	DESIGNED	REVISED
vvesco	VV	-
	VV	-
	AP	-
		-

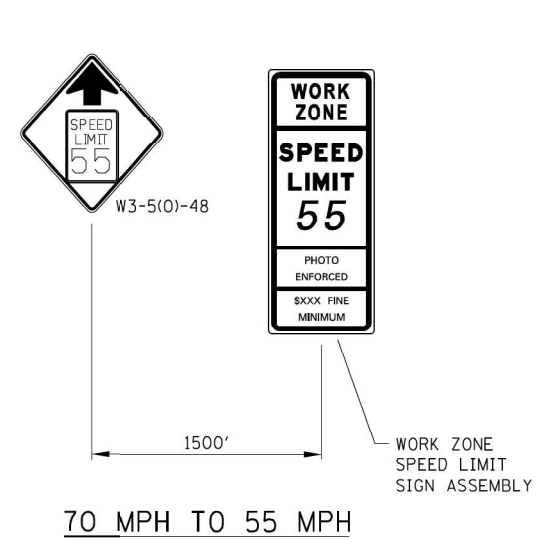
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ILLINOIS TOLLWAY STANDARD  
 CONSTRUCTION SIGNS

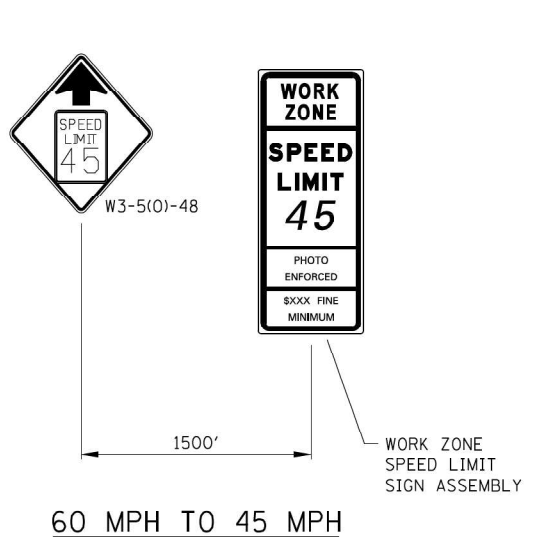
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BR	COOK	86	74
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				



70 MPH TO 45 MPH

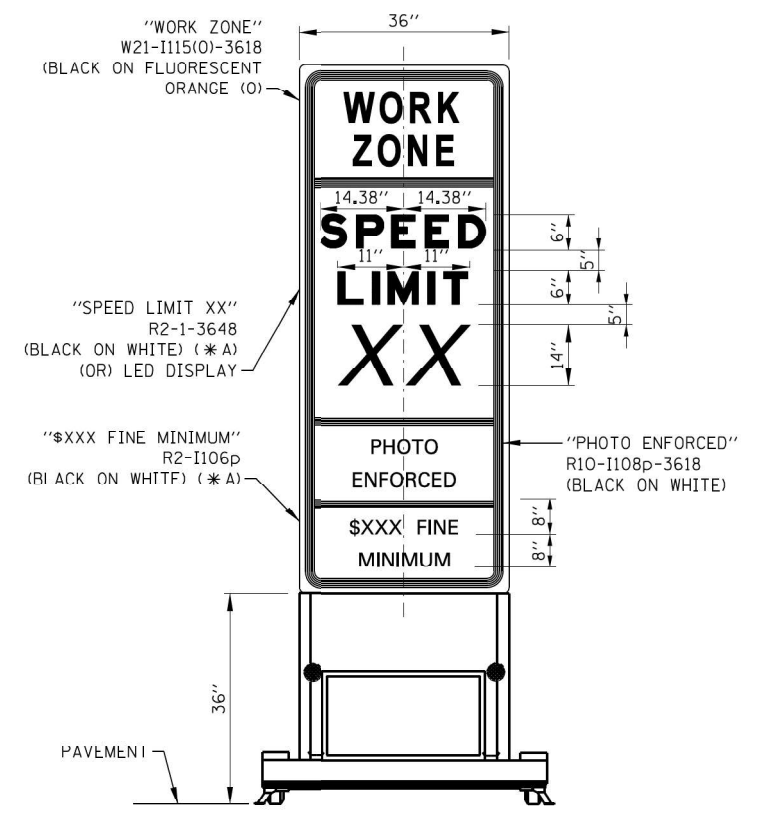


70 MPH TO 55 MPH

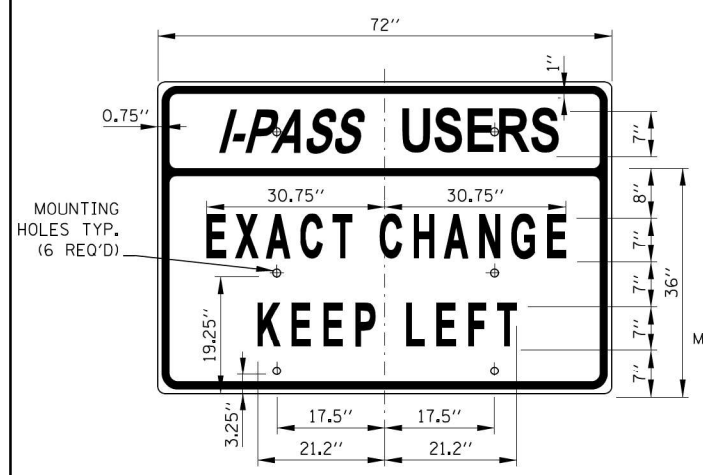


60 MPH TO 45 MPH

WORK ZONE SPEED LIMIT TRANSITION SIGNAGE

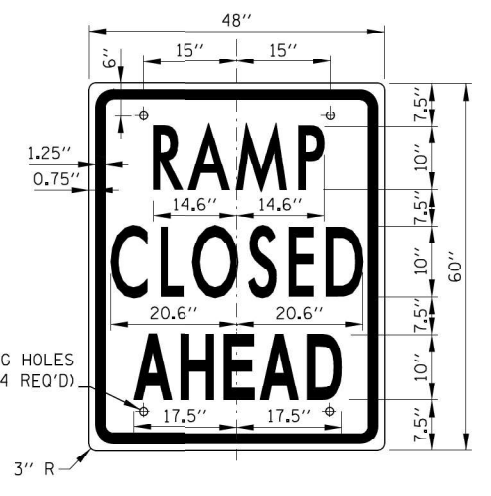


WORK ZONE SPEED LIMIT SIGN ASSEMBLY



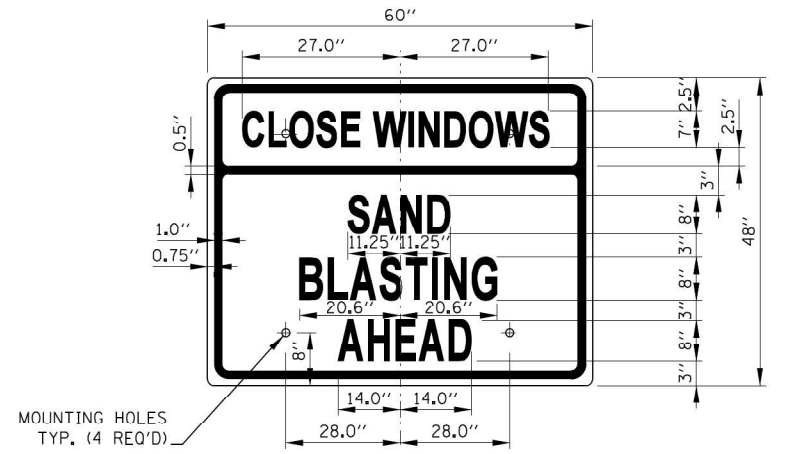
SIGN TS-7

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (\* A)  
 BORDER AND LETTERS - BLACK  
 SIZE: 72"x36"  
 LETTERING: 7" FEDERAL SERIES C  
 MOUNTING HOLES: 1/8" DIA., 4 HOLES SPACED AS SHOWN



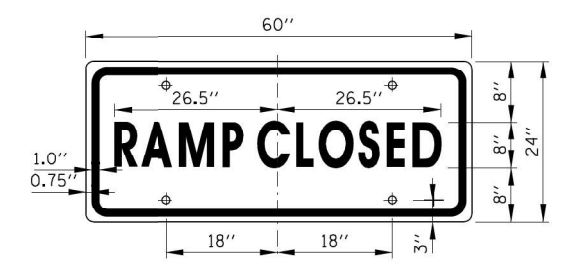
SIGN TS-9

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (\* A)  
 BORDER AND LETTERS - BLACK  
 SIZE: 48"x60"  
 LETTERING: 10" FEDERAL SERIES C  
 MOUNTING HOLES: 1/8" DIA., 4 HOLES SPACED AS SHOWN



SIGN TS-10 (0)

COLOR: BACKGROUND - FLUORESCENT ORANGE (0)  
 BORDER AND LETTERS - BLACK  
 SIZE: 60"x48"  
 LETTERING: 8" FEDERAL SERIES C, 7" FEDERAL SERIES B  
 MOUNTING HOLES: 1/8" DIA., 4 HOLES SPACED AS SHOWN



SIGN TS-6

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (\* A)  
 BORDER AND LETTERS - BLACK  
 SIZE: 60"x24"  
 LETTERING: 8" FEDERAL SERIES C  
 MOUNTING HOLES: 1/8" DIA., 4 HOLES SPACED AS SHOWN



CONSTRUCTION SIGNS

STANDARD E1-07

NOTE:  
SEE SHEET 1 OF THIS SERIES FOR NOTES.

APPROVED: *Paul Kovacs* DATE 5-1-2009  
 CHIEF ENGINEERING OFFICER

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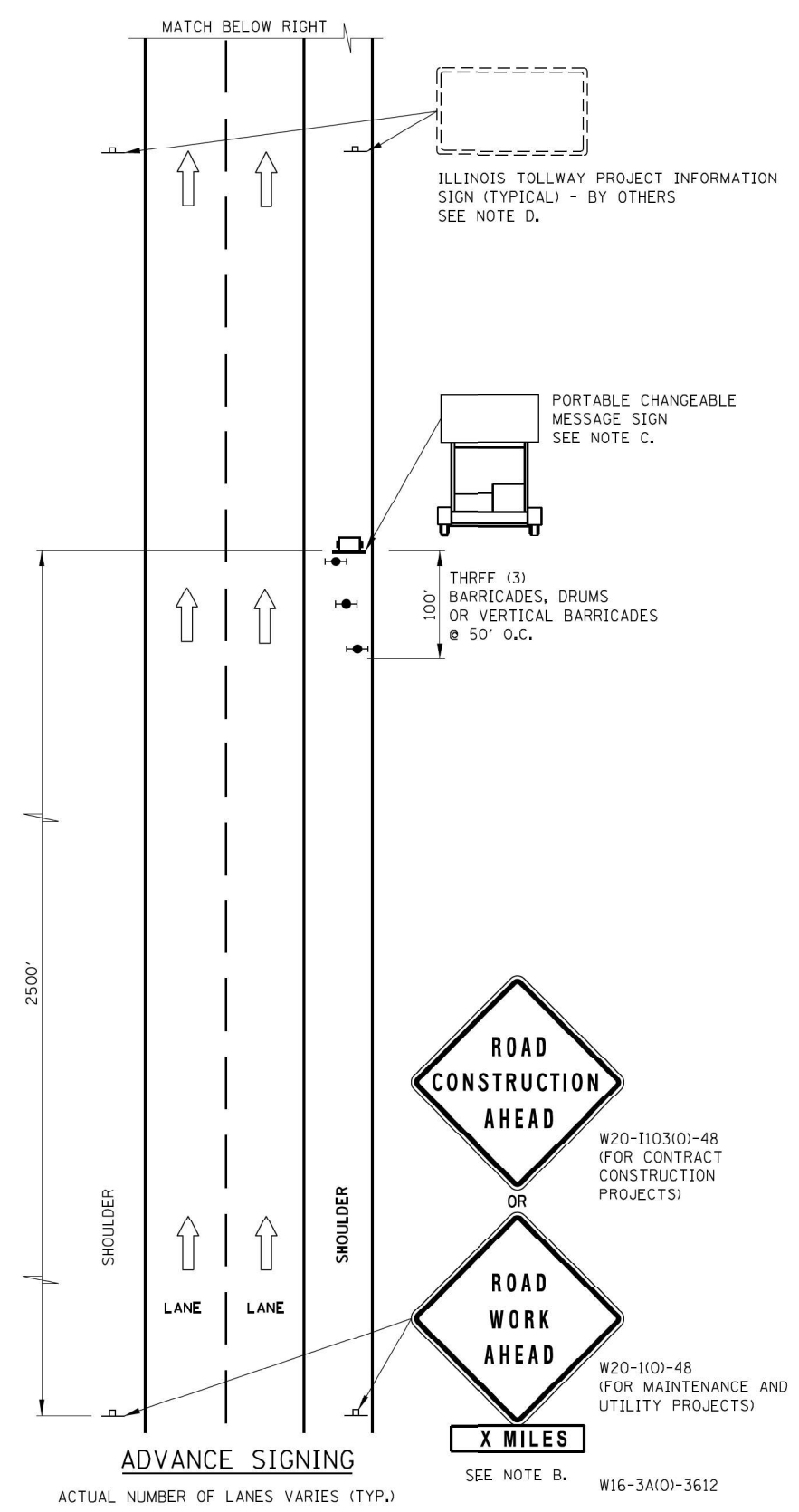
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DRAWN - VV	REVISED -	
PLOT SCALE = 2,000' / in.	CHECKED - AP	REVISED -
PLOT DATE = 01/29/2024	DATE - 01/29/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ILLINOIS TOLLWAY STANDARD  
CONSTRUCTION SIGNS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 0338	SECTION 2021-075-BDR&BR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 75
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				



**ADVANCE SIGNING NOTES:**

- A. THE ADVANCE SIGNING SHOWN ON THIS STANDARD SHALL APPLY ANY TIME THE CONTRACTOR CLOSES ONE OR MORE LANES, OR IS REQUIRED TO SHIFT THE LANE ALIGNMENT. THE "ROAD WORK AHEAD" OR "ROAD CONSTRUCTION AHEAD" SIGNS, WORK ZONE PUBLIC INFORMATION SIGNS AND PORTABLE CHANGEABLE MESSAGE ARE STATIONARY.
- B. THE ROAD CONSTRUCTION AHEAD SIGN (W20-1A, WITH W16-3A SUPPLEMENTAL PLATE) OR ROAD WORK AHEAD SIGN (W20-1, WITH W16-3A SUPPLEMENTAL PLATE) SHALL BE LOCATED UP TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS, WITH THE LOCATION BEING DETERMINED BY THE ENGINEER.
- C. THE PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE USED TO DISPLAY THE STATUS OF LANE WITHIN THE CONTRACT LIMITS. THE PRIMARY MESSAGES SHALL BE: "RIGHT LANE(S) CLOSED" / "X MILES AHEAD", "LEFT LANE(S) CLOSED" / "X MILES AHEAD", "LANE(S) SHIFT" / "X MILES AHEAD", "ALL LANES OPEN". THE PORTABLE CHANGEABLE MESSAGE SIGN MAY BE MOVED TO THE MEDIAN SHOULDER WHEN THE LANE CLOSURES ARE ON THE LEFT, PROVIDED THE EXISTING SHOULDER WIDTH IS ADEQUATE.
- D. THE ILLINOIS TOLLWAY WILL FURNISH AND INSTALL STATIC PROJECT INFORMATION SIGNS IN ADVANCE, THROUGH AND AT THE END OF THE WORK ZONE. THESE SIGNS WILL BE INSTALLED ALONG THE OUTSIDE SHOULDER WITH THE ADVANCE SIGNS LOCATED BEYOND THE PORTABLE CHANGEABLE MESSAGE SIGN. THE ENGINEER AND CONTRACTOR SHALL COORDINATE WITH THE ILLINOIS TOLLWAY REGARDING THE LOCATION OF THESE SIGNS AND NOTIFY THE ILLINOIS TOLLWAY OF ANY DAMAGE TO THE SIGNS OR SUPPORTS.

**LEGEND**

- ➔ ARROW BOARD
- ▨ WORK AREA
- ⊥ SIGN
- ↑ DIRECTION INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHT
- ⦿ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH LIGHT IF REQUIRED. SEE ARTICLE 701.05(a)(5)
- FLAGGER WITH TRAFFIC CONTROL SIGN
- ⚡ WORKER
- ✕ LANE CLOSED
- ⚠ CHECK BARRICADE
- 🚚 TRUCK MOUNTED ATTENUATOR

*Paul Kovacs*  
APPROVED... CHIEF ENGINEERING OFFICER DATE 5-1-2009

SHEET 1 OF 3



LANE CLOSURE DETAILS

STANDARD E2-10

DATE	REVISIONS
3-01-2021	DELETED WORK ZONE PUBLIC INFORMATION SIGN.
3-01-2020	CLARIFIED TMA REQUIREMENTS, UPDATED BARRICADE LIGHT CALL-OUTS
3-01-2019	REARRANGED DETAILS, REVISED NOTE 17, ADDED NOTES 18 & 19, ADDED TMA
3-31-2017	ADDED TAPER RATE TABLE

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ILLINOIS TOLLWAY STANDARD  
LANE CLOSURE DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	76
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				

**LANE CLOSURE NOTES:**

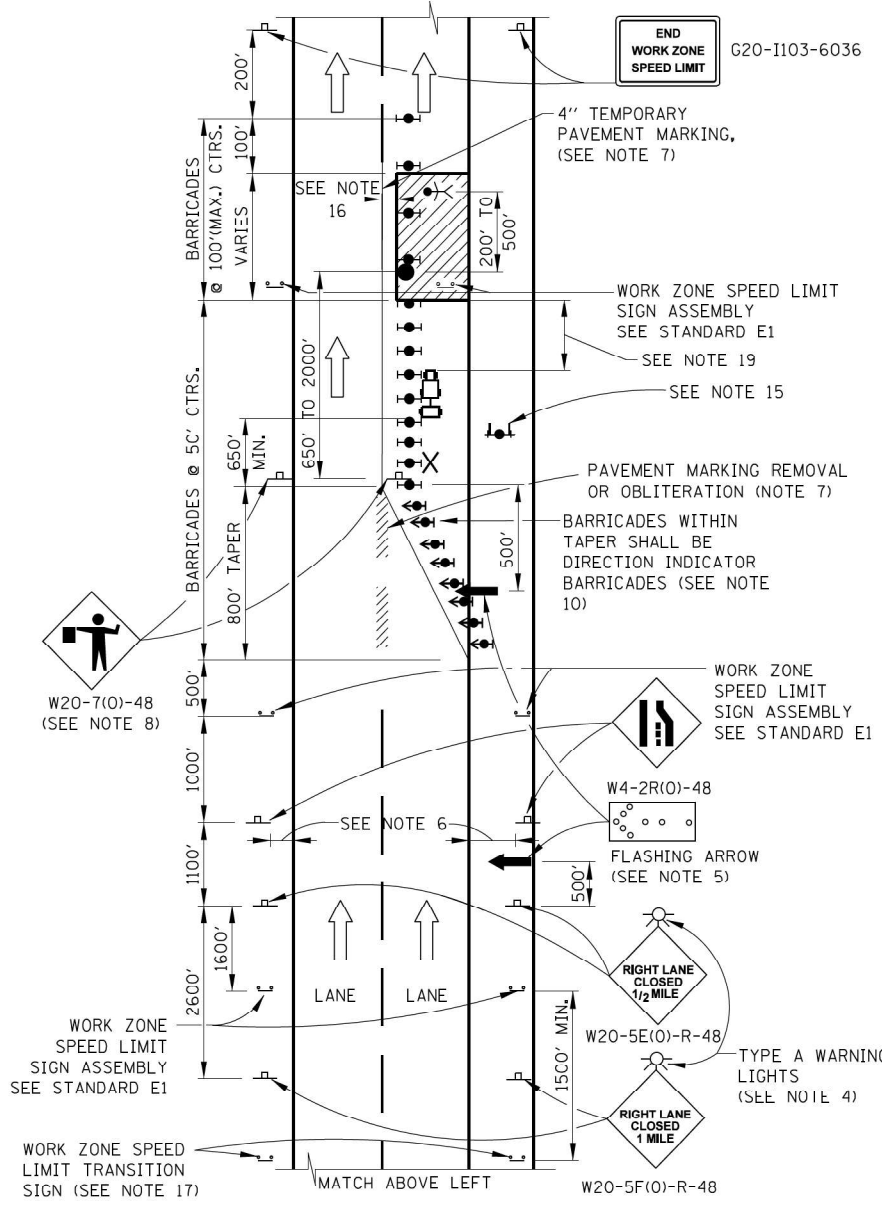
- IF CLOSURES ARE EXPECTED TO PRODUCE TRAFFIC BACKUPS EXTENDING BEYOND THE FIRST WARNING SIGN SHOWN ON THE DETAILS, ADDITIONAL UPSTREAM SIGNS SHALL BE PLACED SO THAT THE TRAFFIC CONTROL ZONE ENCOMPASSES THE ANTICIPATED BACKUP ZONE.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- THESE DETAILS ALSO APPLY TO OPPOSITE HAND LANE CLOSURES BY CHANGING SIGN LEGENDS AND ARROW DIRECTIONS TO INDICATE THE APPROPRIATE CLOSURE.
- FOR NIGHT TIME CLOSURES, ONE TYPE A WARNING LIGHT SHALL BE INSTALLED ABOVE EACH OF THE 1 MILE AND 1/2 MILE ADVANCE WARNING SIGNS. FOR DAYLIGHT - ONLY CLOSURES, THE LIGHTS MAY BE OMITTED.
- FOR ANY LANE CLOSURE, FLASHING ARROW BOARDS SHALL BE REQUIRED AND IN OPERATION AT ALL TIMES. THE FLASHING ARROW BOARD IN ADVANCE OF THE TAPER SHALL BE PROTECTED WITH THREE TYPE II BARRICADES AT 50' O.C.
- CONSTRUCTION SIGNS SHALL GENERALLY BE POST - MOUNTED OR ATTACHED TO PORTABLE SUPPORTS AND SHALL BE INSTALLED 8' TO 12' FROM ADJACENT TRAVEL LANE WHEREVER POSSIBLE. IN NO CASE SHALL SIGNS BE LOCATED TO PROVIDE LESS THAN 2' CLEARANCE BETWEEN EDGE OF SIGN AND ADJACENT TRAVEL LANE.
- PAVEMENT MARKING TAPE AND REMOVAL OR OBLITERATION OF EXISTING MARKINGS SHALL BE REQUIRED WHEN THE CLOSURE TIME EXCEEDS FOUR DAYS. THIS WORK SHALL BE MEASURED AND PAID FOR SEPARATELY.
- WHEN A FLAGGER IS NOT ON STATION, THE FLAGGER SIGN SHALL BE PROMPTLY REMOVED, COVERED OR TURNED TO FACE AWAY FROM TRAFFIC. FLAGGER SIGNS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED SPACING BETWEEN THE SIGNS AND THE WORKERS IN EACH SEPARATE WORK ACTIVITY, PER THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS.
- WORK ZONE SPEED LIMIT SIGN ASSEMBLIES, SHALL BE PLACED ADJACENT TO THE OPEN TRAFFIC LANE(S). WORK ZONE SPEED SIGNS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED SPACING BETWEEN SIGNS AND THE WORKERS IN EACH SEPARATE WORK ACTIVITY PER THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS.
- DIRECTION INDICATOR BARRICADES SHALL BE USED IN LANE TAPERS.
- FOR CLOSURES OTHER THAN SHORT TERM (SUNRISE TO ONE HOUR BEFORE SUNSET), THE MINIMUM HEIGHT OF THE SIGN FROM SHOULDER ELEVATION SHALL BE 7'-0".
- CONES MAY BE USED IN LIEU OF BARRICADES IN THE BUFFER AND WORK AREAS, WHEN THE CLOSURE IS FOR MAINTENANCE OPERATIONS.
- BARRICADES ARE TO BE LOCATED AT JOINT LINE WHEN WORK AREA EXTENDS UP TO JOINT UNLESS OTHERWISE SHOWN ON THE PLANS.
- SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR ADDITIONAL SIGNING IN THIS AREA.
- CHECK BARRICADES SHALL BE PLACED IN EACH CLOSED LANE AND SHOULDER AT 1000 FOOT CENTERS.
- A 1'-0" MINIMUM/2'-0" DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL DEVICE.
- SEE STANDARD E1 FOR ADDITIONAL SIGNAGE REQUIRED WHEN WORK ZONE SPEED LIMIT IS REDUCED BY MORE THAN 10 MPH. THE SPEED LIMIT SHALL BE TRANSITIONED TO THE SPECIFIED WORK ZONE SPEED LIMIT 2600 FEET BEFORE THE FIRST W4-2 SIGN.
- WHEN NO POSITIVE PROTECTION IS PROVIDED AND WORKERS OR EQUIPMENT ENCRANCH WITHIN 2'-0" OR LESS FROM THE EDGE OF TRAVELED WAY, THE LANE OPEN TO TRAFFIC SHALL BE TEMPORARILY CLOSED OR SHIFTED DURING WORK ACTIVITIES.
- IN WORK ZONES WITH NO POSITIVE PROTECTION, A TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE PROVIDED WITH A BUFFER AREA BETWEEN THE FRONT OF THE TMA AND WORKERS OR EQUIPMENT. THE BUFFER AREA SHALL BE 200' UNLESS OTHERWISE DETERMINED. WHERE WORKERS OR EQUIPMENT ARE PRESENT BEYOND THE WORK AREA, AN ADDITIONAL TMA SHALL BE PROVIDED TO EACH WORK AREA. A WORK AREA IS DEFINED AS STARTING AT THE END OF THE BUFFER AREA, EXTENDING 1000 FEET BEYOND THIS POINT.

SHEET 2 OF 3



LANE CLOSURE DETAILS

STANDARD E2-10



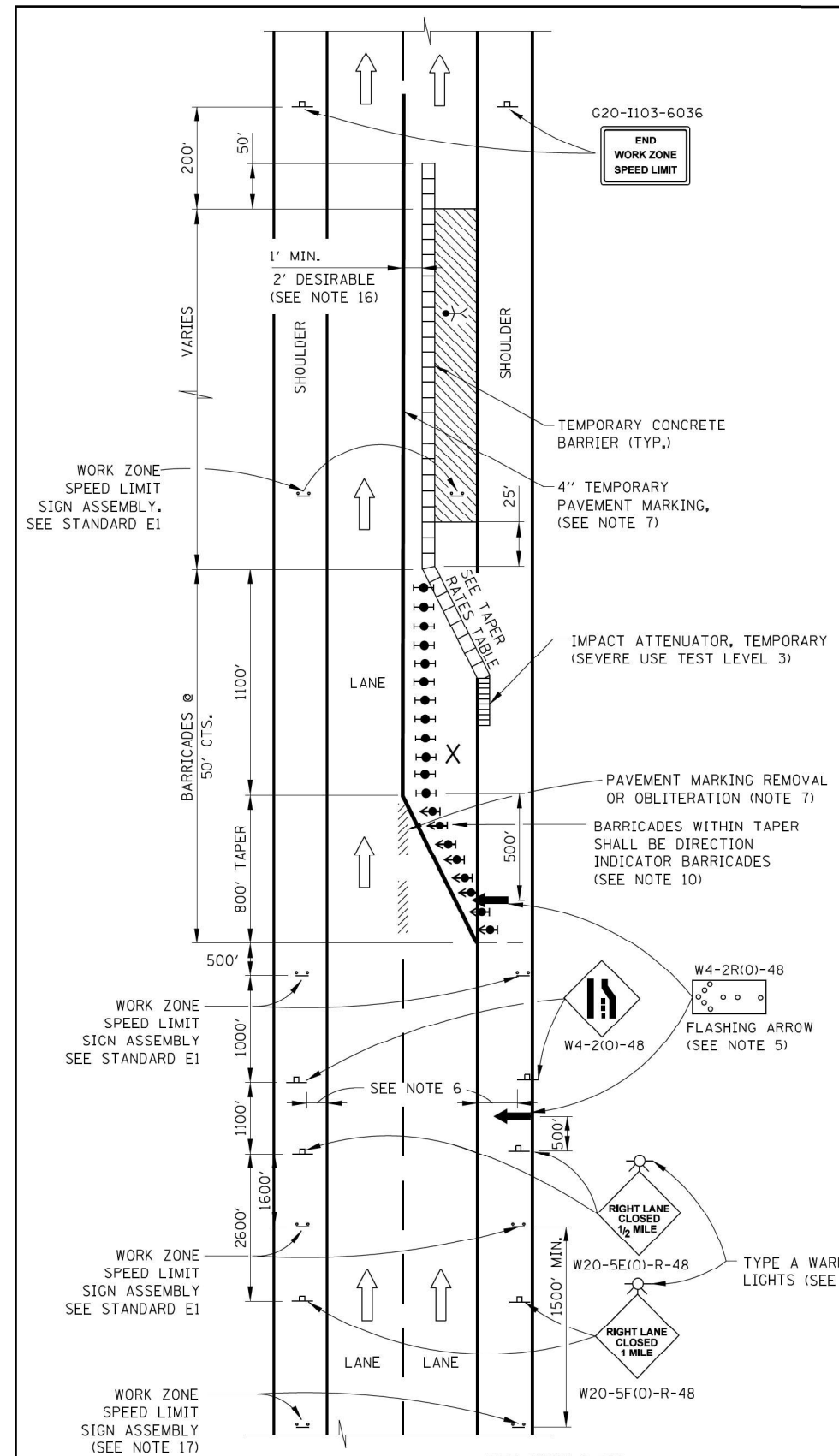
**ONE - LANE CLOSURE WITH BARRICADE**

**TAPER RATES**

WORK ZONE SPEED (mph)	SHY LINE (ft.)	BARRIER INSIDE SHY LINE	BARRIER AT OR BEYOND SHY LINE
65	8.5	28:1	19:1
60	8	26:1	18:1
55	7	24:1	16:1
50	6.5	21:1	14:1
45	6	18:1	12:1
40	5	16:1	10:1
35	4.5	15:1	9:1
30	4	13:1	8:1

**LEGEND**

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH LIGHT IF REQUIRED. SEE ARTICLE 701.05(a)(5)
- FLAGGER WITH TRAFFIC CONTROL SIGN
- WORKER
- LANE CLOSED
- CHECK BARRICADE
- TRUCK MOUNTED ATTENUATOR



**ONE - LANE CLOSURE WITH BARRIER**

APPROVED: *Paul Kames* DATE 5-1-2009  
 CHIEF ENGINEERING OFFICER

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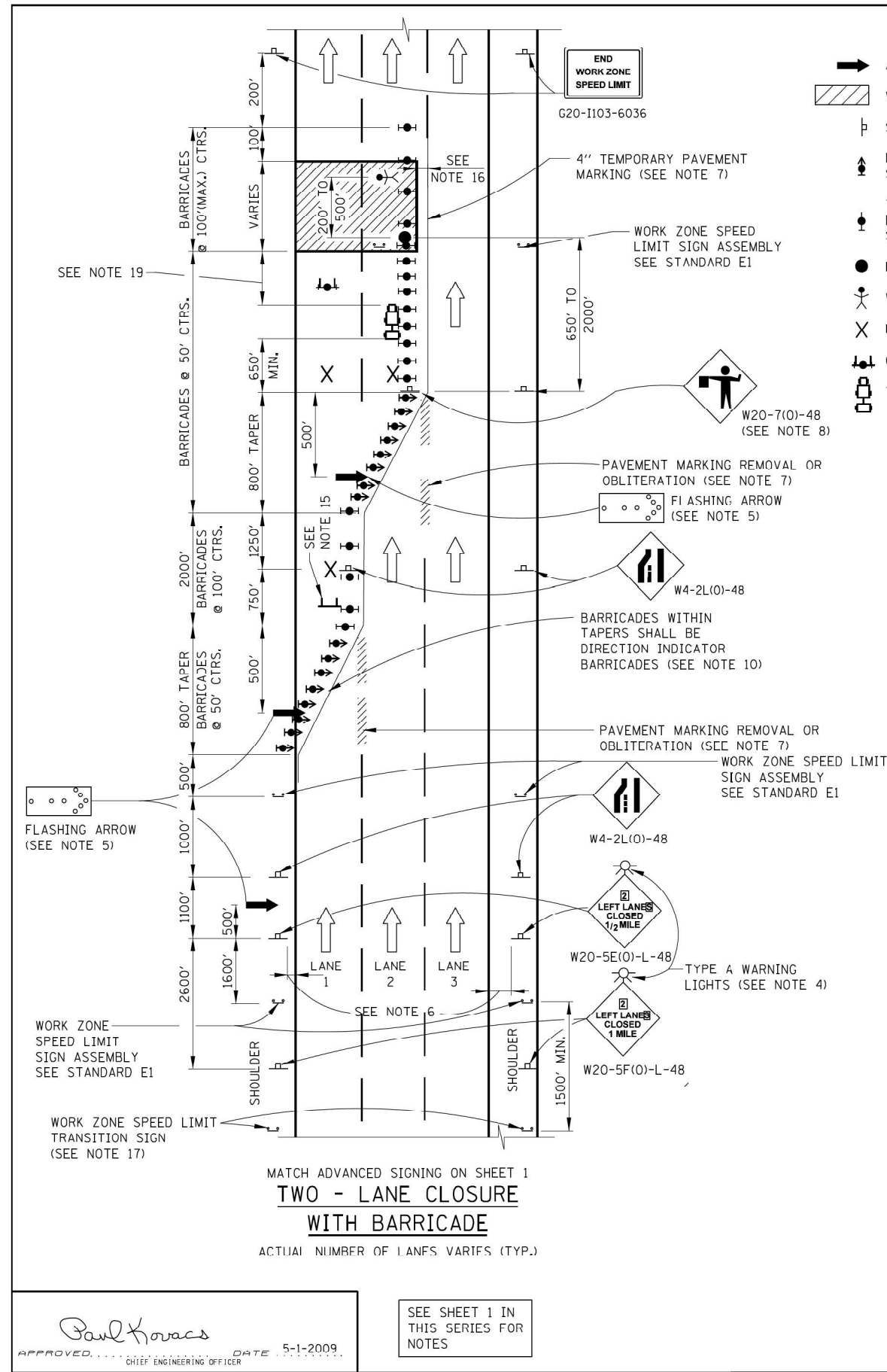
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ILLINOIS TOLLWAY STANDARD  
 LANE CLOSURE DETAILS

F.A.P. RTE. 0338	SECTION 2021-075-BDR&BR	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 77
SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 62P12	
ILLINOIS FED. AID PROJECT				

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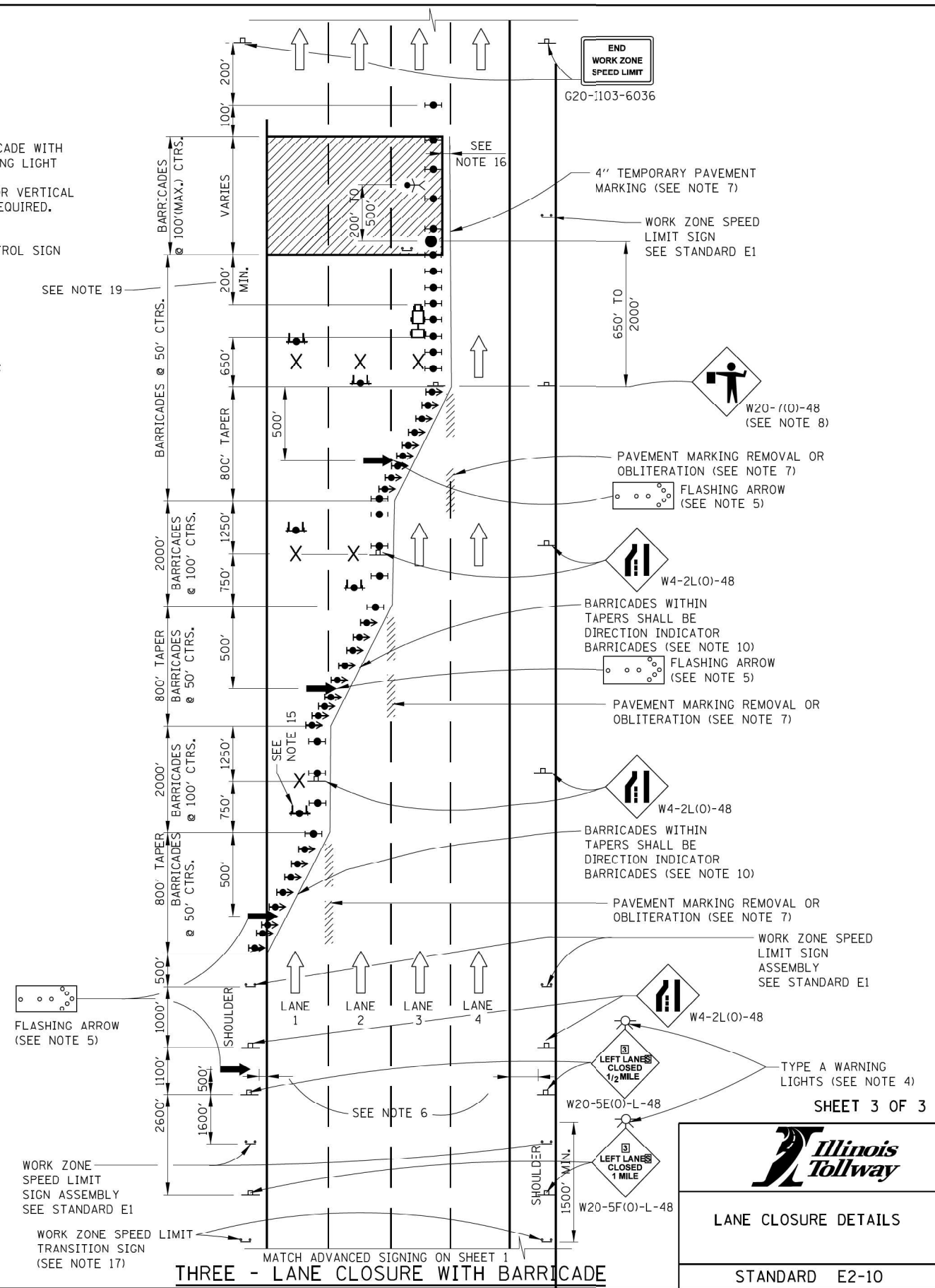
**TWO - LANE CLOSURE WITH BARRICADE**  
 ACTUAL NUMBER OF LANES VARIES (TYP.)

APPROVED: *Paul Kovacs*  
 CHIEF ENGINEERING OFFICER DATE 5-1-2009

SEE SHEET 1 IN THIS SERIES FOR NOTES

**LEGEND**

- ➔ ARROW BOARD
- ▨ WORK AREA
- ⚓ SIGN
- ➔ DIRECTION INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH LIGHT IF REQUIRED. SEE ARTICLE 701.05(1)(5)
- FLAGGER WITH TRAFFIC CONTROL SIGN
- ⚓ WORKER
- ✕ LANE CLOSED
- ⚓ CHECK BARRICADE
- ⚓ TRUCK MOUNTED ATTENUATOR



**THREE - LANE CLOSURE WITH BARRICADE**

SHEET 3 OF 3

**LANE CLOSURE DETAILS**  
 STANDARD E2-10



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DATE	- 01/29/2024

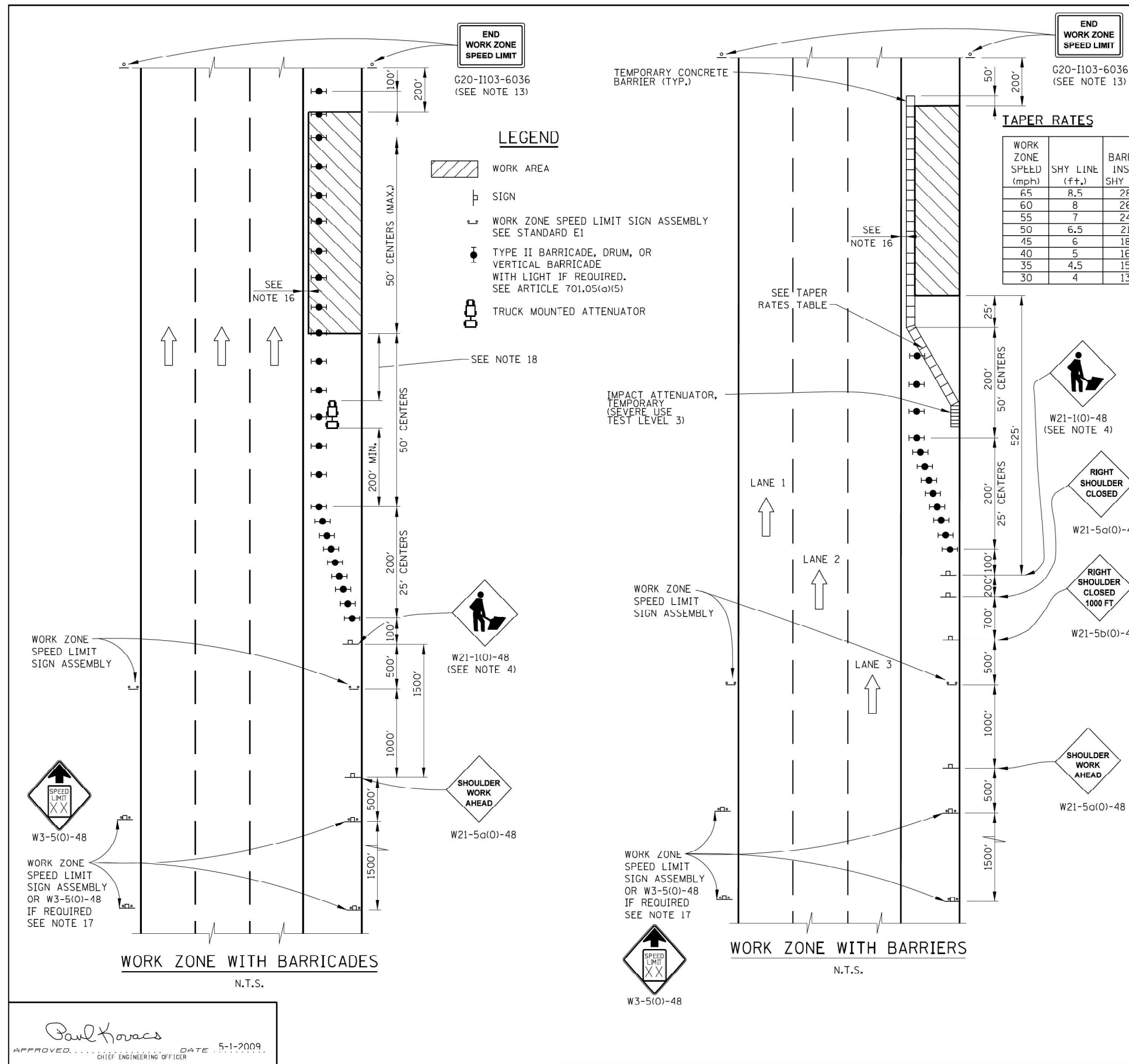
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DATE	- 01/29/2024	REVISED	-

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**ILLINOIS TOLLWAY STANDARD LANE CLOSURE DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BR	COOK	86	78
CONTRACT NO. 62P12				
ILLINOIS FED. AID PROJECT				



**TAPER RATES**

WORK ZONE SPEED (mph)	SHY LINE (ft.)	BARRIER INSIDE SHY LINE	BARRIER AT OR BEYOND SHY LINE
65	8.5	28:1	19:1
60	8	26:1	18:1
55	7	24:1	16:1
50	6.5	21:1	14:1
45	6	18:1	12:1
40	5	16:1	10:1
35	4.5	15:1	9:1
30	4	13:1	8:1

**GENERAL NOTES:**

1. THE SHOULDER SHALL BE CLOSED WHEN A WORK ACTIVITY REQUIRING 15 OR MORE MINUTES IS PERFORMED AT A DISTANCE WHICH IS LESS THAN 15 FEET BUT NO CLOSER THAN 2 FEET FROM THE EDGE OF PAVEMENT.
2. THE ADJACENT EXTERIOR LANE SHALL BE CLOSED WHEN WORK IS PERFORMED WITHIN 2 FEET FROM THE EDGE OF PAVEMENT.
3. THE CHANNELIZING DEVICES WHICH SEPARATE THE WORK SPACE FROM THE ADJACENT TRAVEL LANE SHALL BE SPACED AT 25' FOR (200 FEET) AND AT A MAXIMUM OF 50' FOR ALL ADDITIONAL DEVICES.
4. WHEN THE WORK SITE IS UNATTENDED, SUBSTITUTE - "SHOULDER WORK AHEAD" SIGN.
5. WORKER SIGNS OR SHOULDER WORK SIGNS AND CHANNELIZATION DEVICES ARE PLACED ONLY ON THE SIDE OF THE ROADWAY ON WHICH THE ACTIVITY IS PERFORMED.
6. FOR SHOULDER CLOSURE EXTENDING OVERNIGHT, BARRICADE TYPE II SHALL BE USED. SEE ARTICLE 701.05(a)(5) FOR BARRICADE LIGHT REQUIREMENTS
7. FOR SHORT TERM CLOSURE (SUNRISE TO ONE HOUR BEFORE SUNSET) NOT EXTENDING INTO DARKNESS, CONES MAY BE USED.
8. ONE WORK ZONE SPEED LIMIT SIGN ASSEMBLY SHALL BE PLACED AT A DISTANCE OF 500' TO 2,500' MAXIMUM IN ADVANCE OF WORKERS THROUGHOUT THE SHOULDER CLOSURE. MOVING OPERATIONS MAY REQUIRE CONTINUOUS ADJUSTMENT OF THE SIGN ASSEMBLY LOCATION TO MAINTAIN THE ABOVE INTERVAL.
9. AN ADDITIONAL SIGN ASSEMBLY SHALL BE PLACED 500' BEYOND THE LAST ENTRANCE RAMP FOR EACH INTERCHANGE THAT FALLS WITHIN THE 2,500'.
10. THE SIGN ASSEMBLY SHALL BE PLACED NO CLOSER THAN 500' TO ANY OTHER SIGN.
11. THE WORK ZONE SPEED LIMIT SIGNS AND SIGN ASSEMBLY SHALL BE PROMPTLY REMOVED OR COVERED WHEN SHOULDER CLOSURE IS REMOVED.
12. ALL CONFLICTING SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED.
13. "END WORK ZONE SPEED LIMIT" SIGNS SHALL BE IN PLACE ONLY WHEN THE EXISTING POSTED SPEED > 55MPH.
14. FOR SHOULDER REPAIRS OR REPLACEMENT THE CHANNELIZING DEVICES SHALL BE PLACED AT THE EDGE OF PAVEMENT WHENEVER THE WORK ACTIVITIES RESULT IN A DROP OFF AT THE EDGE OF PAVEMENT.
15. ANY UNATTENDED OBSTACLE OR EXCAVATION LEFT ON THE SHOULDER OVERNIGHT SHALL BE IN COMPLIANCE WITH THE ROADWAY TRAFFIC CONTROL AND COMMUNICATIONS MANUAL.
16. A 1'-0" MINIMUM/2'-0" DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL DEVICE.
17. SEE STANDARD E1 FOR ADDITIONAL SIGNAGE REQUIRED WHEN WORK ZONE SPEED LIMIT IS REDUCED BY MORE THAN 10 MPH.
18. IN WORK ZONES WITH NO POSITIVE PROTECTION, A TRUCK MOUNTED ATTENUATOR SHALL BE PROVIDED WITH A BUFFER AREA BETWEEN THE FRONT OF THE TMA AND WORKERS OR EQUIPMENT. THE BUFFER AREA SHALL BE 200' UNLESS OTHERWISE DETERMINED. WHERE WORKERS OR EQUIPMENT ARE PRESENT BEYOND THE WORK AREA, AN ADDITIONAL TMA SHALL BE PROVIDED FOR EACH WORK AREA IS DEFINED AS STARTING AT THE END OF THE BUFFER AREA, EXTENDING 1000 FEET BEYOND THIS POINT.

DATE	REVISIONS
3-01-2021	DELETED WORK ZONE PUBLIC INFORMATION SIGN
3-01-2020	CLARIFIED TMA REQUIREMENTS & UPDATED BARRICADE LIGHT REQUIREMENTS
3-01-2019	DELETED W21-1a, ADJUSTED SIGN SPACING, ADDED TMA, REVISED NOTES
3-31-2017	ADDED TAPER RATE TABLE.
3-31-2016	ADD WORK ZONE WITH BARRIERS.
3-11-2015	REVISED NOTES
3-31-14	REVISED WORKER SIGN NUMBERS PER "MUTCD" AND REVISED NOTES.

**SHOULDER CLOSURE DETAILS**

**STANDARD E3-09**

APPROVED: *Paul Kovacs* DATE: 5-1-2009  
 CHIEF ENGINEERING OFFICER

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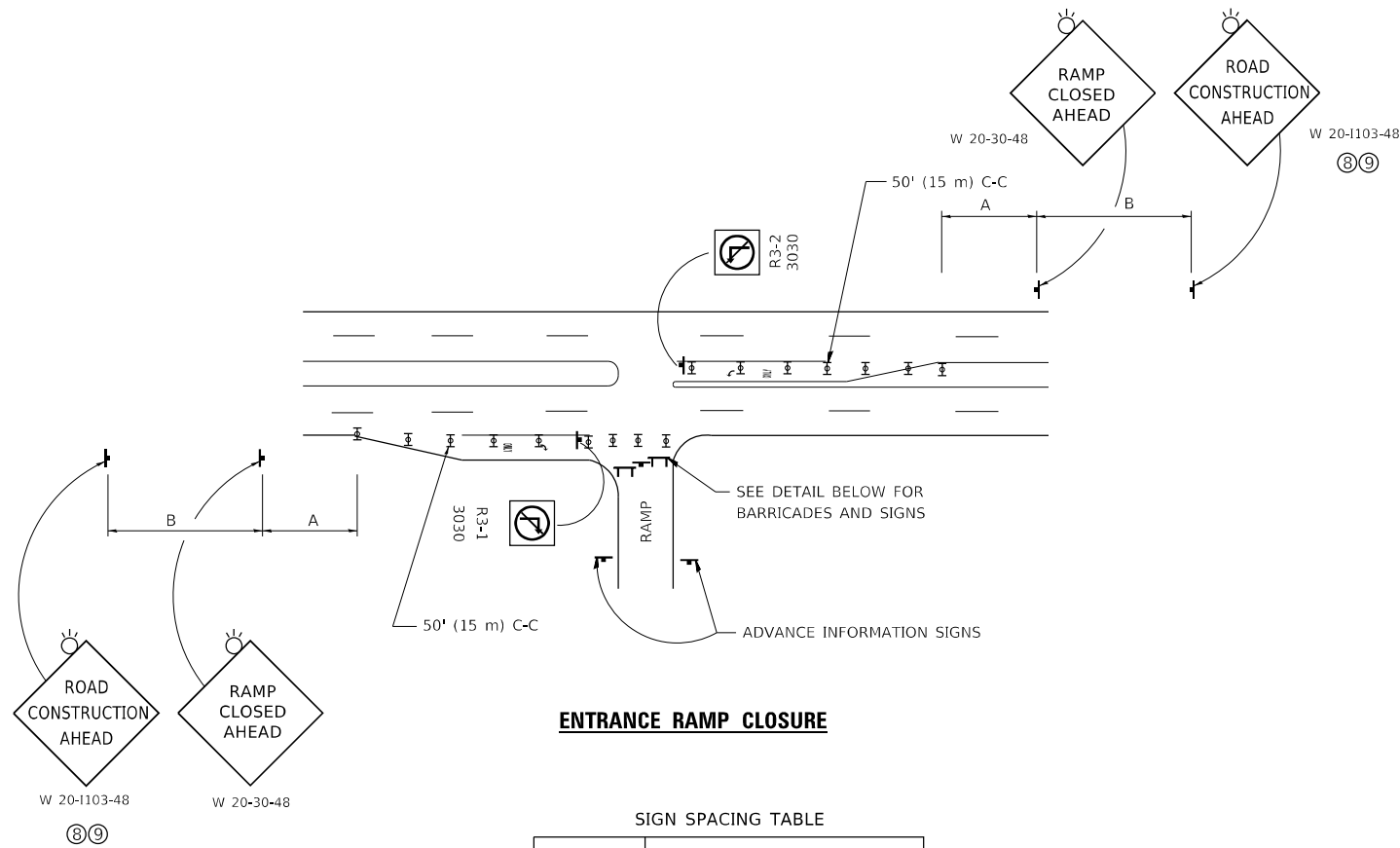
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ILLINOIS TOLLWAY STANDARD**  
**SHOULDER CLOSURE DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 0338	SECTION 2021-075-BDR&B/R	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 79
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P12	

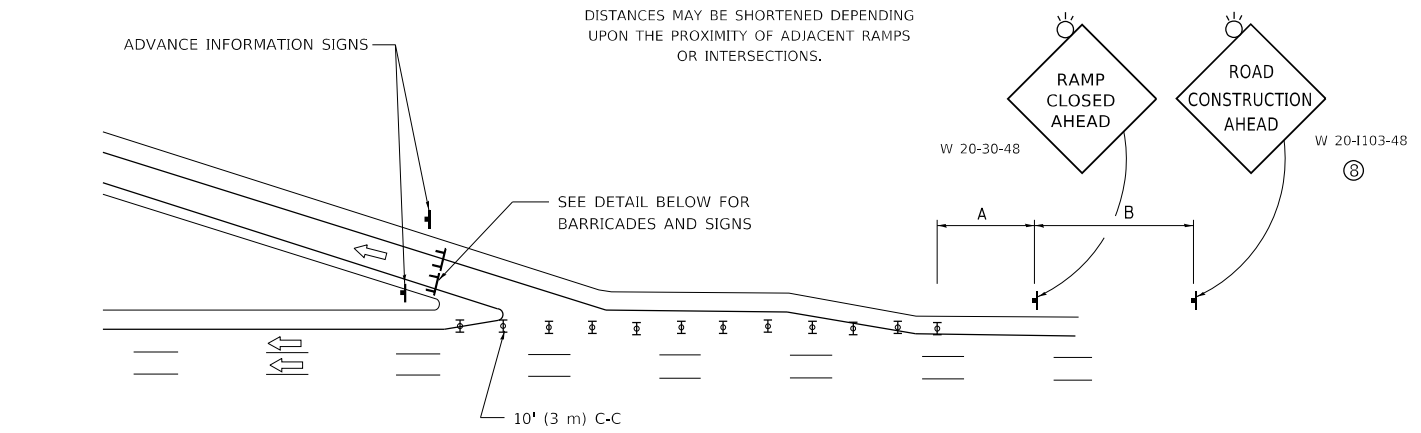


**ENTRANCE RAMP CLOSURE**

**SIGN SPACING TABLE**

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

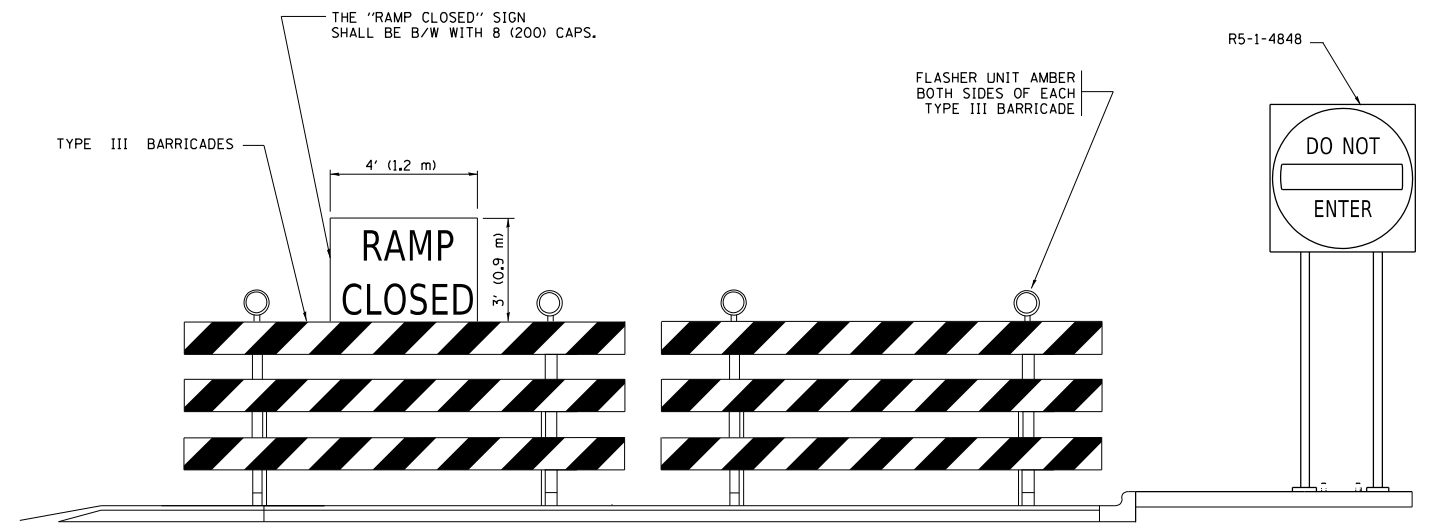
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



**EXIT RAMP CLOSURE**

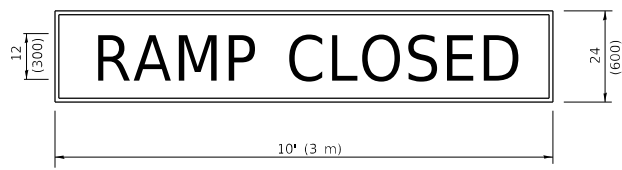
**SYMBOLS**

- ☐ TYPE II BARRICADE OR DRUM
- ☐ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



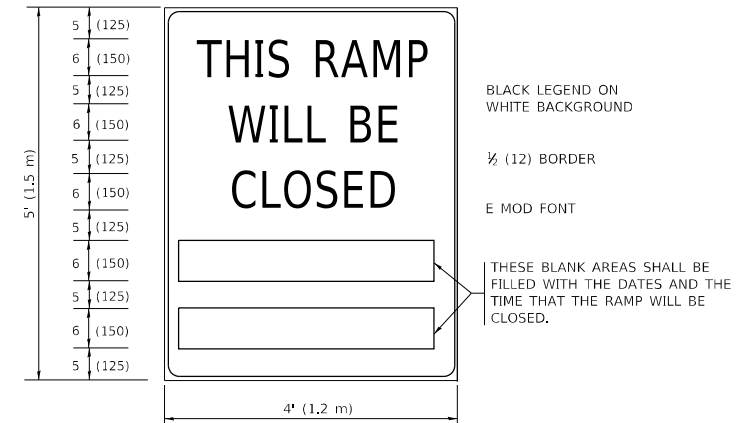
**DETAIL FOR REQUIRED BARRICADES & SIGNS**

**RAMP CLOSURE ADVANCE WARNING SIGN**



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

**RAMP CLOSURE ADVANCE INFORMATION SIGN**



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

**GENERAL NOTES:**

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

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

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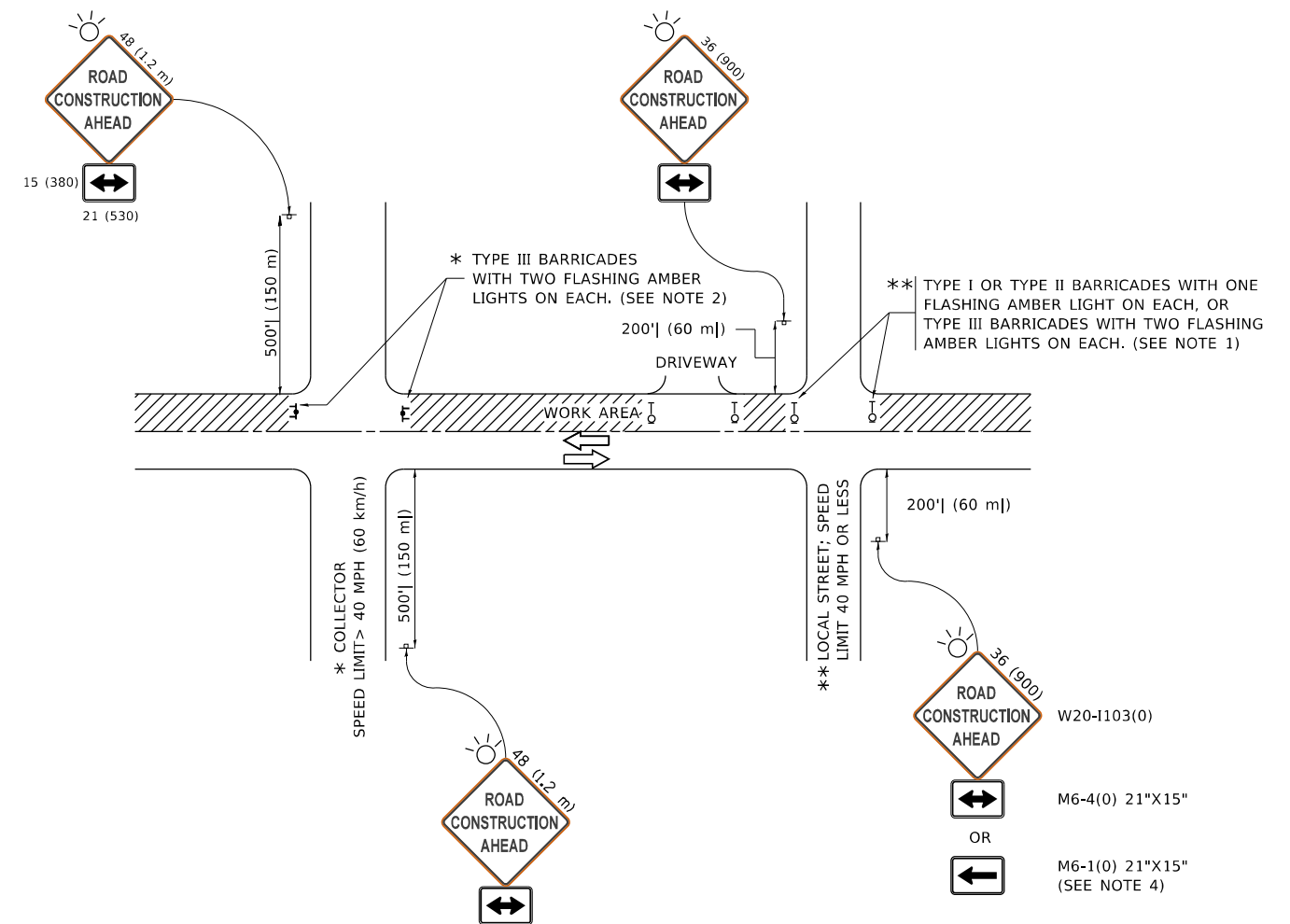
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**ENTRANCE\_AND\_EXIT\_RAMP CLOSURE\_DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	86	80
TC-08			CONTRACT NO. 62P12	
ILLINOIS FED. AID PROJECT				





**NOTES:**

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

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

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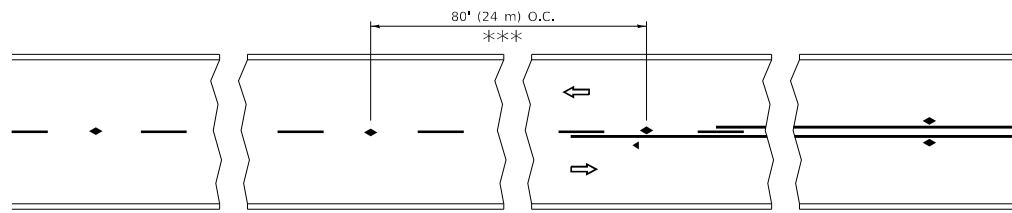
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		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

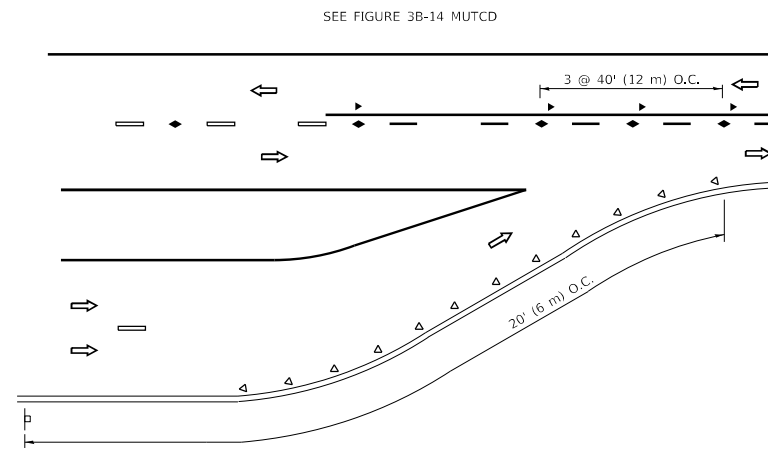
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>			CONTRACT NO. 62P12	
ILLINOIS FED. AID PROJECT				

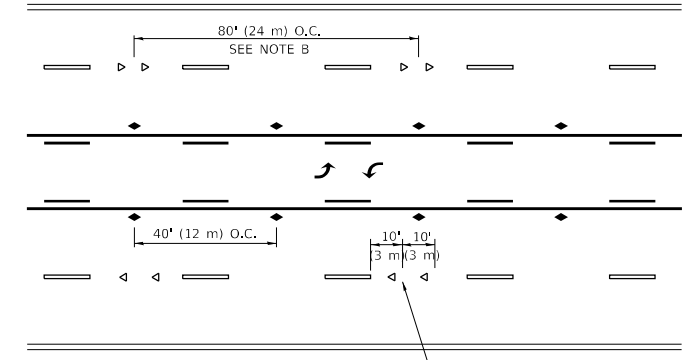


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

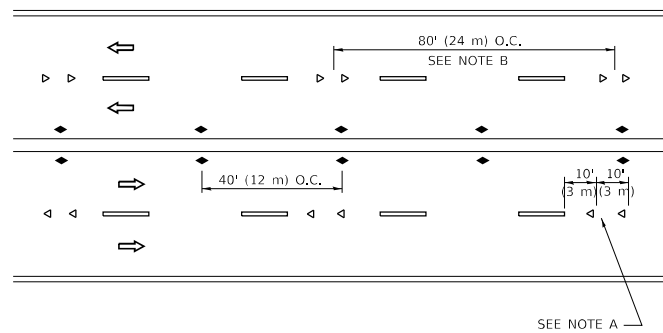
**TWO-LANE/TWO-WAY**



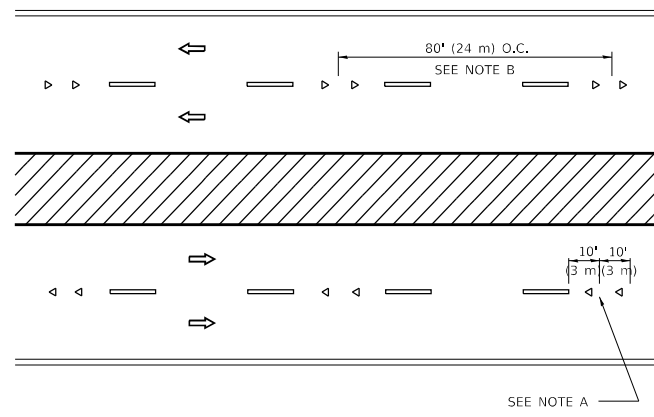
**LANE REDUCTION TRANSITION**



**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**

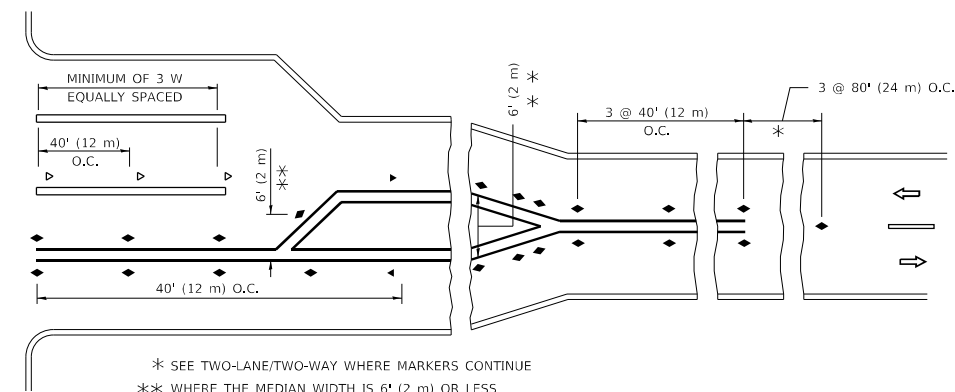
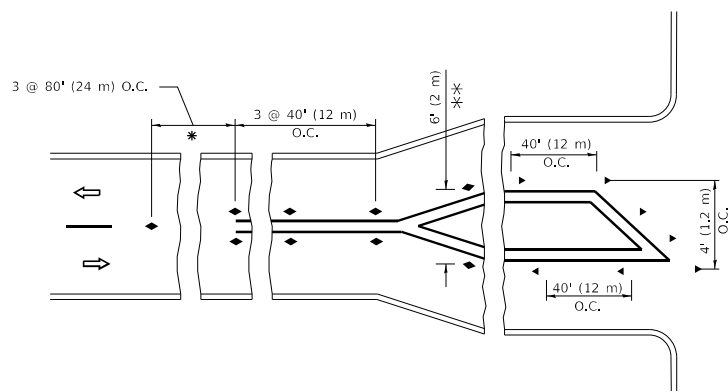
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**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.

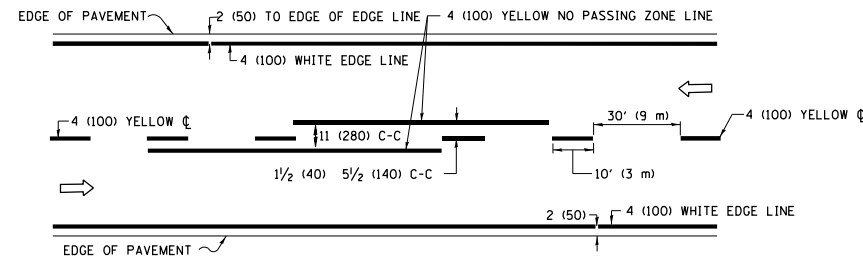
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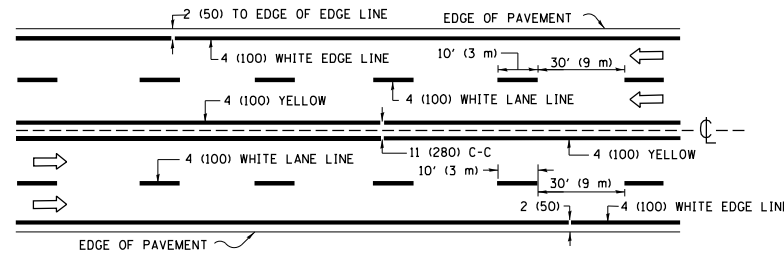
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
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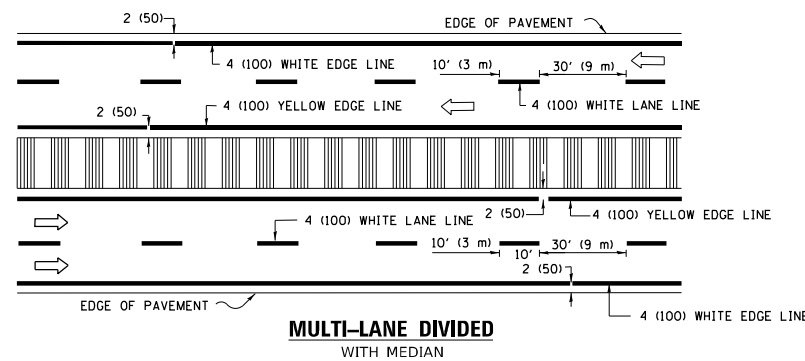
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0338	2021-075-BDR&BJR	COOK	86	82
TC-11		CONTRACT NO. 62P12		
ILLINOIS		FED. AID PROJECT		



**2-LANE ROADWAY**

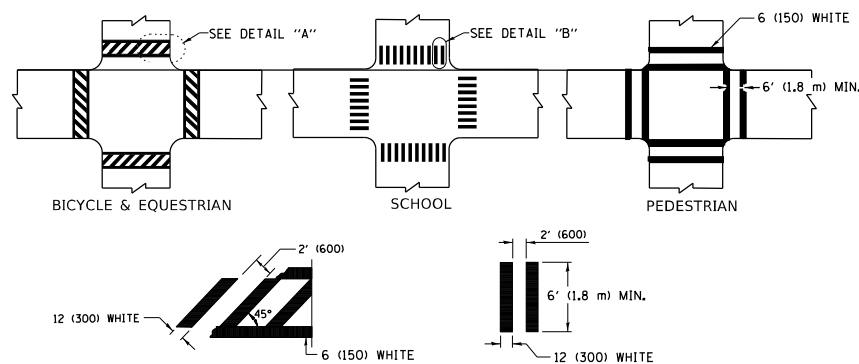


**MULTI-LANE UNDIVIDED**



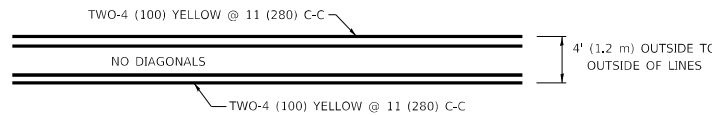
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

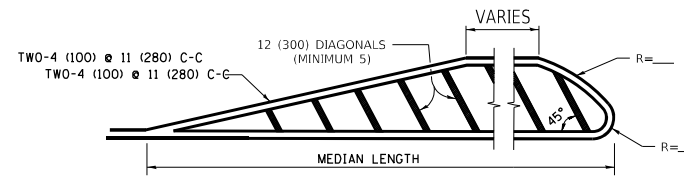


**TYPICAL CROSSWALK MARKING**

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

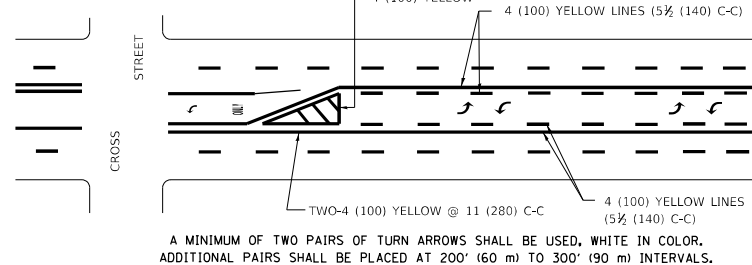


**4' (1.2 m) WIDE MEDIANS ONLY**

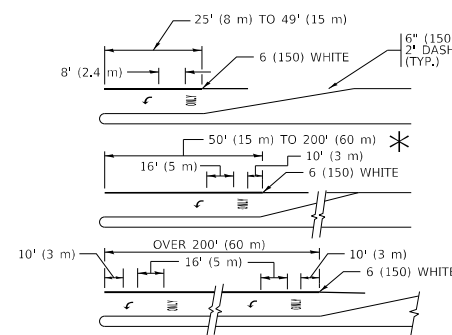


**MEDIANS OVER 4' (1.2 m) WIDE**

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



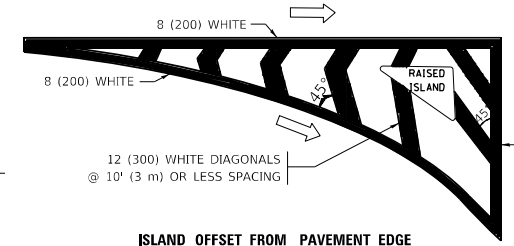
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**



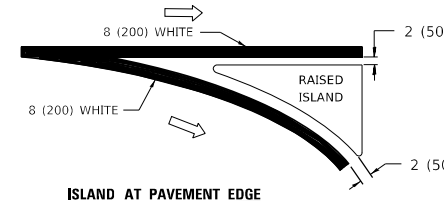
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* 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".

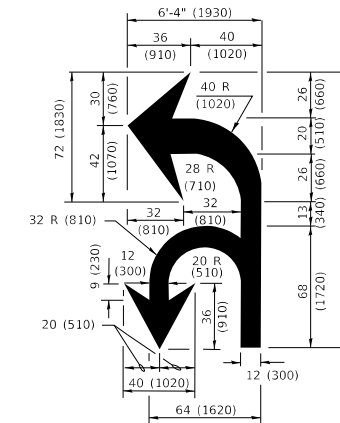


**ISLAND OFFSET FROM PAVEMENT EDGE**

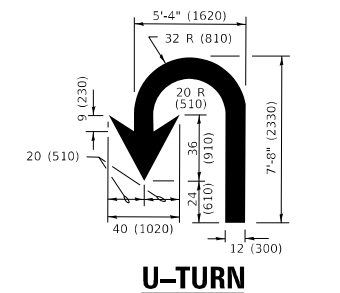


**ISLAND AT PAVEMENT EDGE**

**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 <sup>2</sup> ) EACH *X*=54.0 SQ. FT. (5.0 m <sup>2</sup> )
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.

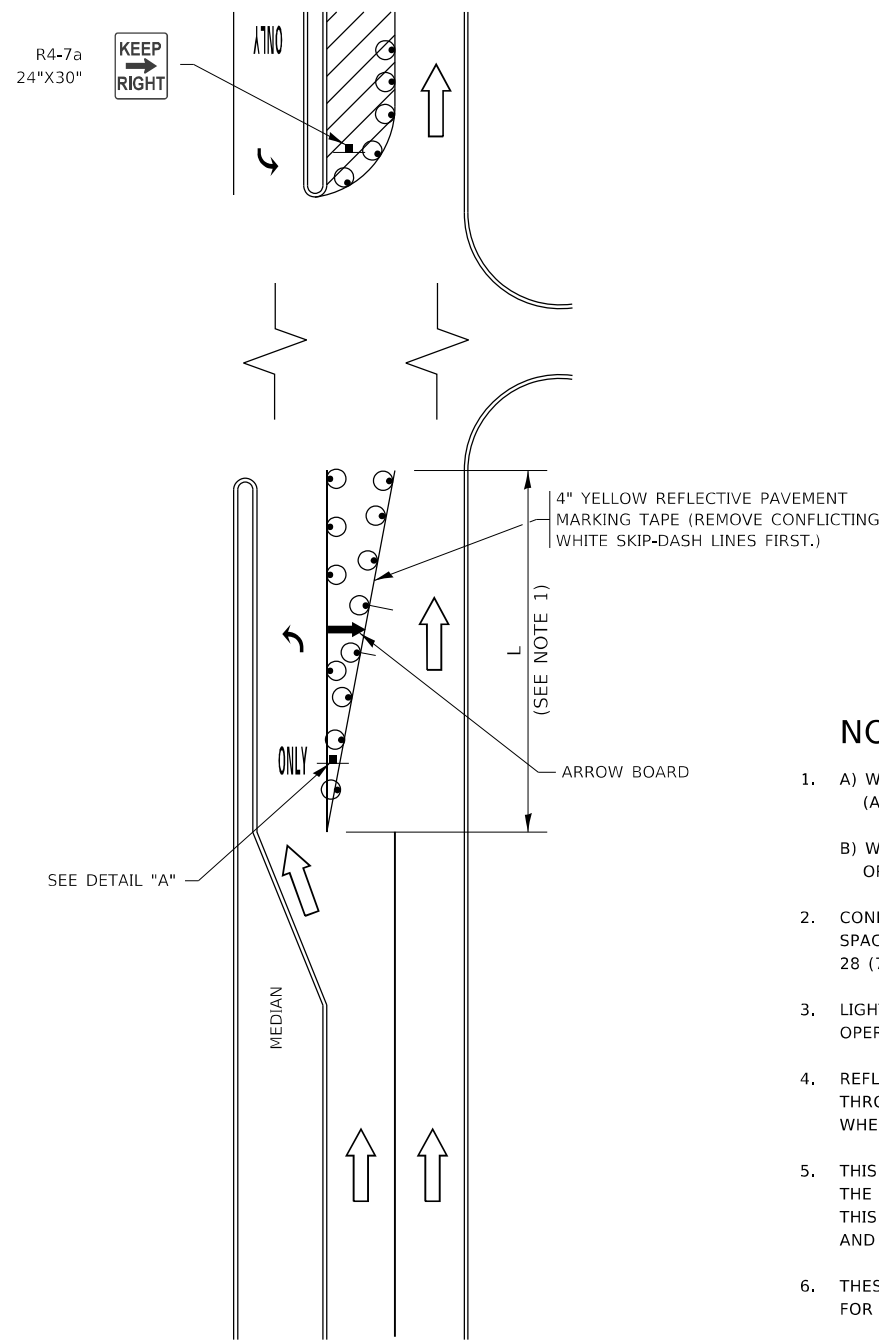
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	DRAWN -	REVISED - C. JUCIUS 07-01-13
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

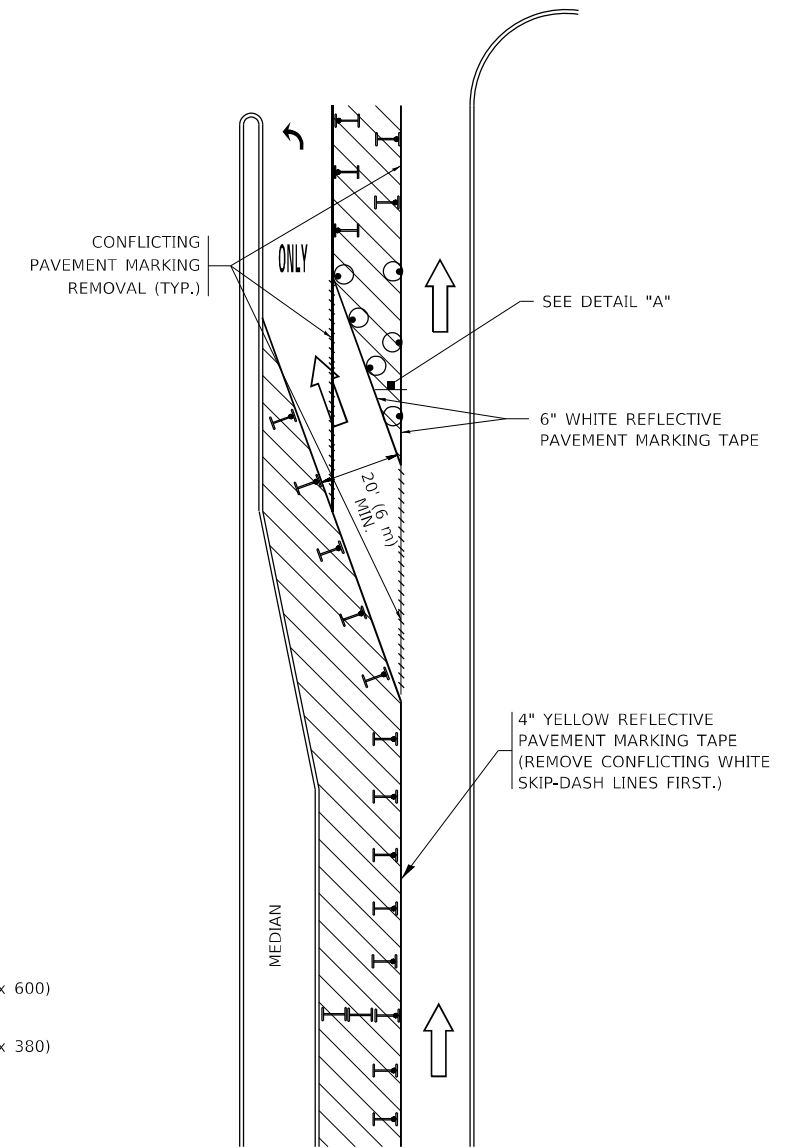
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TYPICAL PAVEMENT MARKINGS		0338		2021-075-BDR&BJR	COOK	86 83
		TC-13		CONTRACT NO. 62P12		
SCALE: NONE		SHEET 1 OF 2 SHEETS		ILLINOIS FED. AID PROJECT		

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



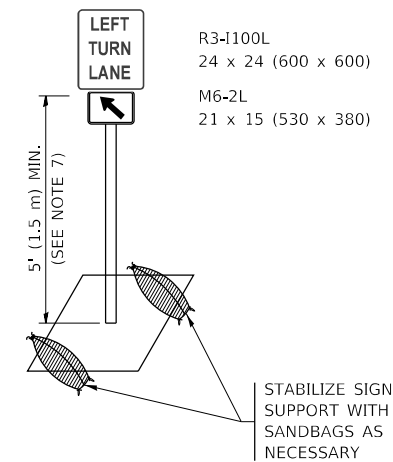
**FIGURE 2**

## 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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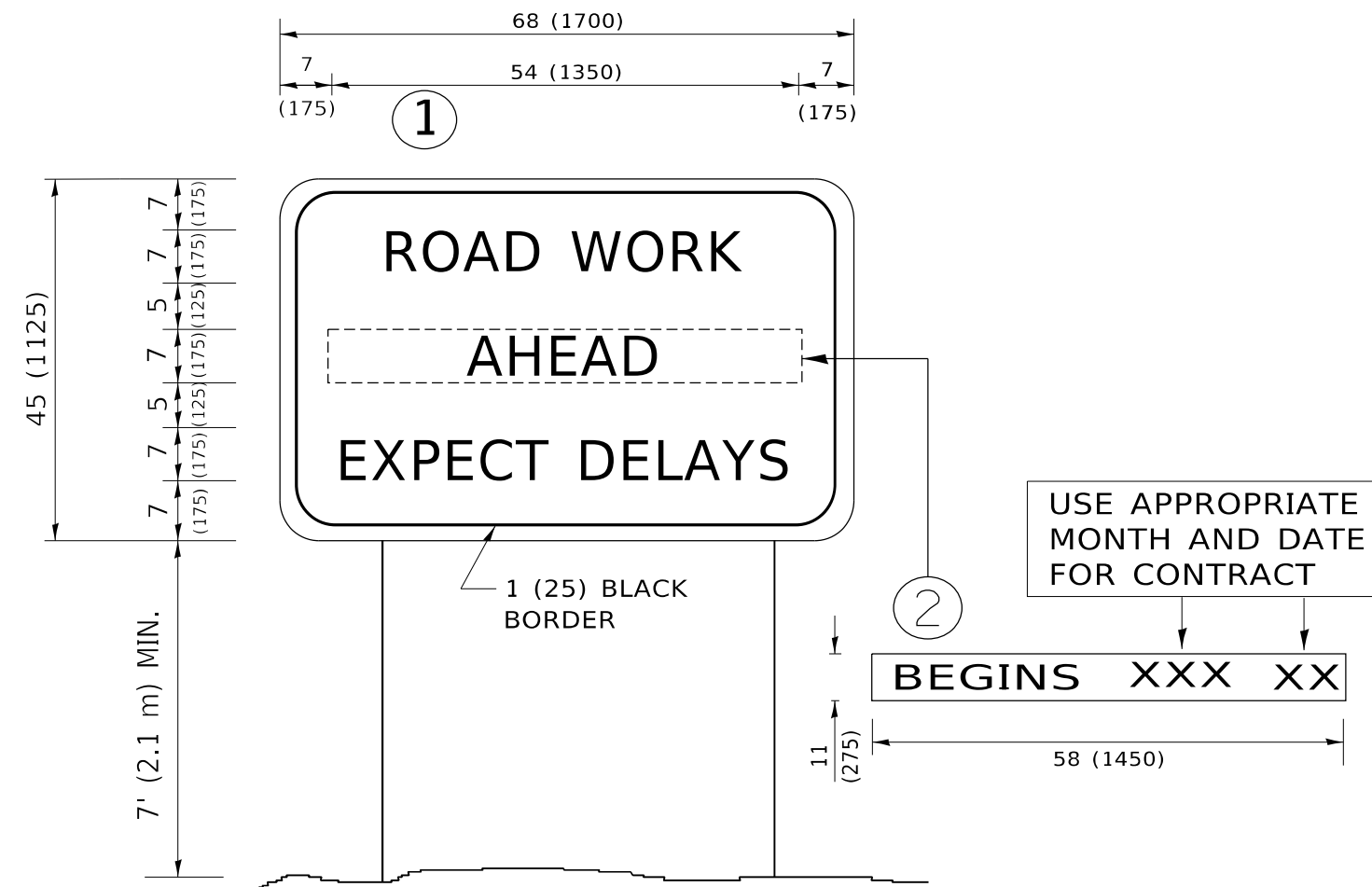
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PLOT DATE = 3/4/2019	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
	DATE - T. RAMMACHER 01-06-00	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	84
TC-14			CONTRACT NO. 62P12	
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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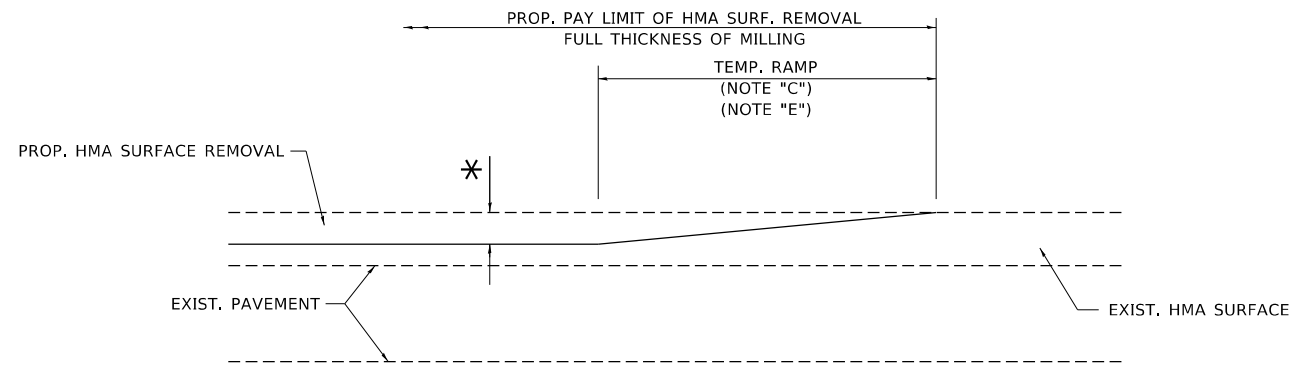
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PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

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

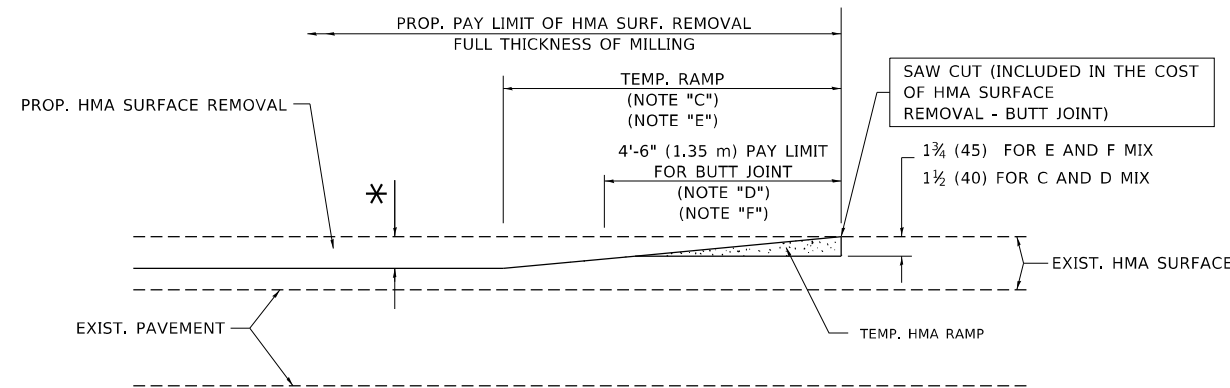
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0338	2021-075-BDR&BJR	COOK	86	85
<b>TC-22</b>			CONTRACT NO. 62P12	
ILLINOIS FED. AID PROJECT				



**MILLED TEMPORARY RAMP**

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

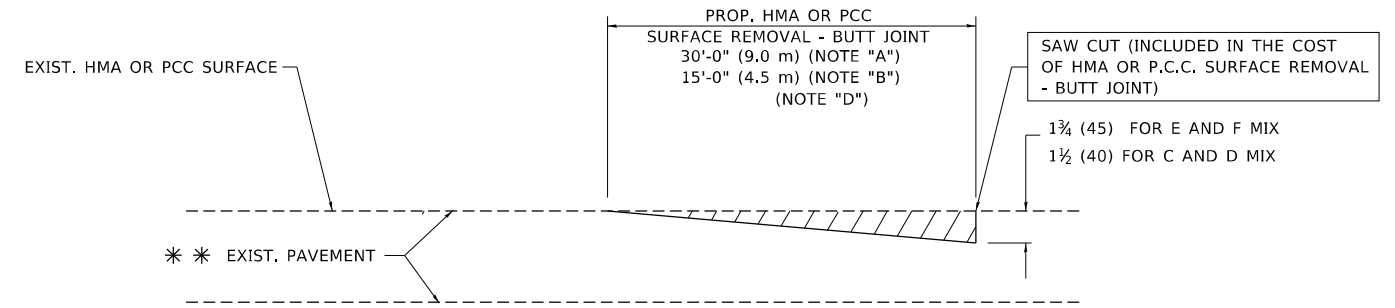


**HMA CONSTRUCTED TEMPORARY RAMP**

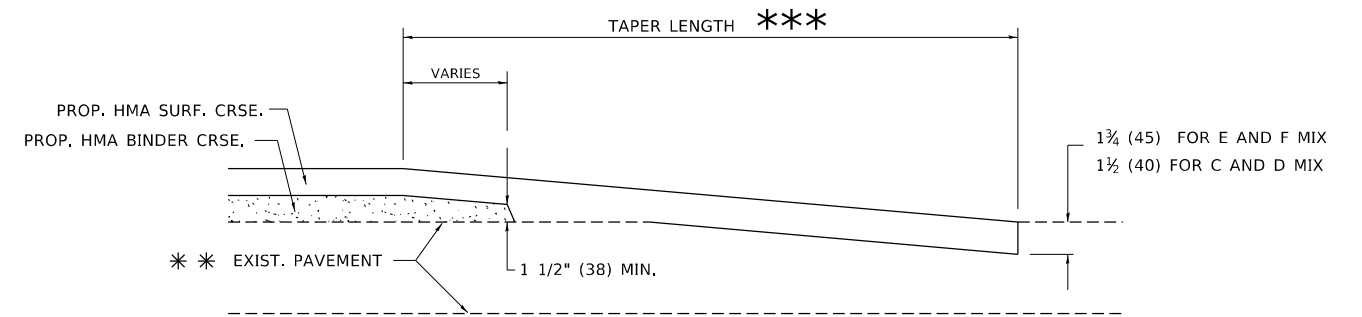
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

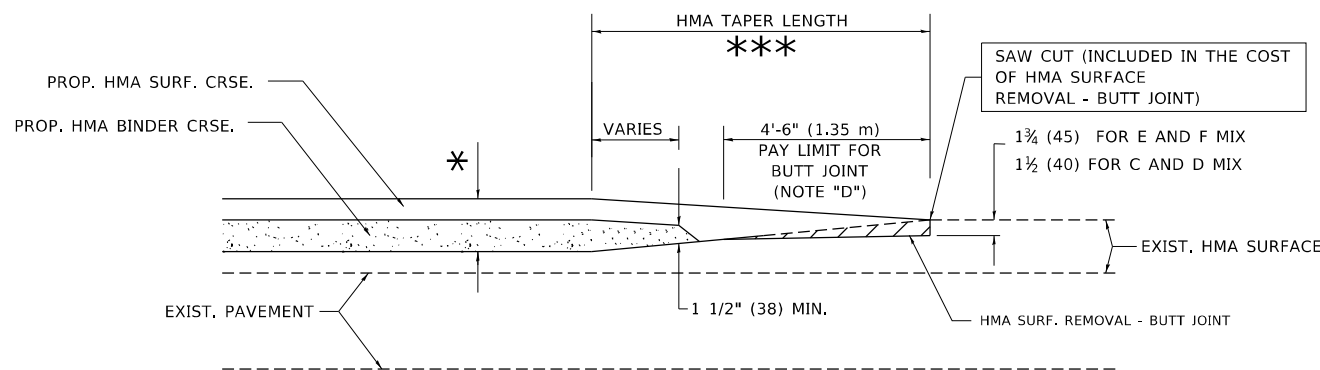
**NOTES**

- A. MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F. INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT.  
\* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- G. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".  
\*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT**

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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



**BUTT JOINT AND HMA TAPER**

**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

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	DRAWN -	REVISED - A. ABBAS 03-21-97
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND  
HMA TAPER DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0338	2021-075-BDR&BJR	COOK	86	86
BD400-05 BD32		CONTRACT NO. 62P12		
ILLINOIS FED. AID PROJECT				