

01-19-2024 LETTING ITEM 136

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

PROJECT IS LOCATED IN THE CITY OF CHICAGO

TRAFFIC DATA:

31ST STREET
S.N. 016-1159 2022 ADT = 9,100

DESIGN CLASSIFICATION = MINOR ARTERIAL

DESIGN SPEED = 35 MPH (ASSUMED)

POSTED SPEED = 30 MPH

I-90/94 (DAN RYAN EXPRESSWAY)
S.N. 016-1159 2022 ADT = 277,300

DESIGN CLASSIFICATION = INTERSTATE

DESIGN SPEED = 60 MPH (ASSUMED)

POSTED SPEED = 55 MPH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

F.A.U. 1465 (31ST STREET) OVER
F.A.I ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION FAU 1465 22 BJ
PROJECT NO. HBFP-7MHW(001)
BRIDGE DECK OVERLAY AND JOINT REPAIR
COOK COUNTY

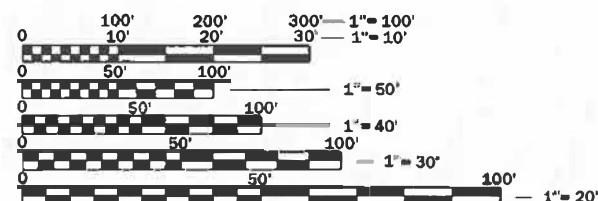
C-91-351-22

3rd P.M.

R. 14. E.



31ST STREET
S.N. 016-1159



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. 62T44

LOCATION MAP

NOT TO SCALE

GROSS LENGTH = 860 FT. = 0.16 MILES
NET LENGTH = 630 FT. = 0.11 MILES



Shiraz Tarique
Illinois Registered Engineer No. 062-064219
Registration Expires Nov. 30, 2023

10/18/2023

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	1
		ILLINOIS	CONTRACT NO. 62T44	

D-91-297-22



LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 17, 2023
Jose Rios Torres REGIONAL ENGINEER
December 8, 2023
Scott A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT
December 8, 2023
Stephen M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

1	COVER SHEET
2	INDEX, HIGHWAY STANDARDS & GENERAL NOTES
3 - 7	SUMMARY OF QUANTITIES
8	TYPICAL SECTIONS
9 - 12	STAGING PLAN
13 - 14	DETOUR PLAN
15	REMOVAL PLAN
16 - 17	ROADWAY PLAN
18	PAVEMENT MARKING PLAN
19 - 37	STRUCTURAL PLANS
38 - 50	DISTRICT ONE STANDARDS

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS \geq 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS \leq 40 MPH
701428-01	TRAFFIC CONTROL SET UP AND REMOVAL FREEWAY/EXPRESSWAY
701446-11	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

DISTRICT STANDARDS

BD-08	FRAMES AND LIDS ADJUSTMENT WITH MILLING
TC-08	ENTRANCE AND EXIT RAMP CLOSURE DETAILS
TC-09	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTILANE WEAVE
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-12	MULTILANE FREEWAY PAVEMENT MARKING DETAILS
TC-17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-24	CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS
TC-26	DRIVEWAY ENTRANCE SIGNING

GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

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.

THE CONTRACTOR SHALL CALL "J.U.L.I.E" AT (800) 892-0123 OR 811 AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES ARE IN THE AREA. 48 HOUR NOTIFICATION IS REQUIRED.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES THAT CONFLICT WITH TEMPORARY MARKINGS, IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR PROPOSED STRIPING AT THE COMPLETION OF THIS CONTRACT. EXACT LOCATIONS OF ALL PROPOSED PAVEMENT MARKINGS SHALL BE DIRECTED BY THE RESIDENT ENGINEER.

THE CONTRACTOR WILL NOT BE ABLE TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH AFFECTED UTILITY COMPANIES AND THE CITY OF CHICAGO.

THE CONTRACTOR SHALL MAINTAIN ALL ROADWAYS OPEN TO TRAFFIC AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS.

THE CONTRACTOR SHALL USE CARE NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKDAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DUST AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

PERMANENT PAVEMENT MARKINGS SHALL BE AS SPECIFIED IN THE PLANS AND SHALL BE PLACED IN ACCORDANCE WITH THE "CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS" DETAILS. (TC-24, CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS).

TWO WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT EMAD ALHUSSEINI, THE AREA TRAFFIC FIELD ENGINEER, AT EMAD.ALHUSSEINI@ILLINOIS.GOV .

THE CONTRACTOR SHALL CONTRACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV, AND CARLOS MUNOZ, THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR, AT CARLOS.MUNOZ@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING ANY WORK.

ANY DAMAGE TO EXISTING TRAFFIC SIGNAL EQUIPMENT WILL HAVE TO BE RESTORED TO ORIGINAL CONDITIONS AND TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE DEPARTMENT.

ALL STAGE CHANGES REQUIRING THE STOPPING AND/OR THE PACING OF TRAFFIC SHALL TAKE PLACE DURING THE ALLOWABLE HOURS FOR FULL EXPRESSWAY CLOSURES AND SHALL BE APPROVED BY THE DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT LEAST 3 WORKING DAYS (WEEKENDS AND HOLIDAYS DO NOT COUNT INTO THIS 72 HOURS NOTIFICATION) IN ADVANCE OF ANY PROPOSED STAGE CHANGE.

A MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED TO THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR 14 DAYS IN ADVANCE OF ANY STAGE CHANGES OR FULL EXPRESSWAY CLOSURES. THE MAINTENANCE OF TRAFFIC PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO: LANE AND RAMP CLOSURES, EXISTING GEOMETRICS, AND EQUIPMENT AND MATERIAL LOCATION.

THE CONTRACTOR NEEDS TO SUBMIT COMPLETE CONSTRUCTION PROCESS (CPP'S) TO CTA FOR REVIEW AND COMMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK.

COMMITMENTS

NONE.

HOT- MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR Voids @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)
BUTT JOINT & 31ST ST RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	4% @ 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)		

MIXTURE TABLE NOTES

- THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.
- THE AC TYPE FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE AC TYPE SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATION.

FACTORS FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

SHORT TERM PAVEMENT MARKING	10 FT/100 FT
-----------------------------	--------------



USER NAME = rober	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 10/19/2023	DATE - 10/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)
INDEX, HIGHWAY STANDARDS & GENERAL NOTES

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 B1	COOK	50	2
				CONTRACT NO. 62T44
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED/20% STATE	
				SN 016-1159	
				0059	
				BRIDGE	
* 28000510	INLET FILTERS	EACH	11	11	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	798	798	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	937	937	
40604062	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N70	TON	256	256	
50102400	CONCRETE REMOVAL	CU YD	7.5	7.5	
50104650	SLOPE WALL REMOVAL	SQ YD	272	272	
50157300	PROTECTIVE SHIELD	SQ YD	2,934	2,934	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	8.5	8.5	
50300300	PROTECTIVE COAT	SQ YD	2,907	2,907	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	610	610	
50800515	BAR SPLICERS	EACH	8	8	
51100100	SLOPE WALL 4 INCH	SQ YD	272	272	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	167	167	
58700300	CONCRETE SEALER	SQ FT	11,639	11,639	

* SPECIALTY ITEM



USER NAME = 14nh	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 10/13/2023	DATE - 10/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 B1	COOK	50	3
			CONTRACT NO. 62T44	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED/20% STATE	
				SN 016-1159	
				0059	
				BRIDGE	
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	90.7	90.7	
60250200	CATCH BASINS TO BE ADJUSTED	EACH	10	10	
60255500	MANHOLES TO BE ADJUSTED	EACH	12	12	
60260100	INLETS TO BE ADJUSTED	EACH	1	1	
66400105	CHAINLINK FENCE, 4'	FOOT	18	18	
67100100	MOBILIZATION	L SUM	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	184	184	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1,277	1,277	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	8,155	8,155	
70307100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	SQ FT	901	901	
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	6,494	6,494	
70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	300	300	
70307140	TEMPORARY PAVEMENT MARKING - LINE 8" - TYPE IV TAPE	FOOT	4,160	4,160	
70307160	TEMPORARY PAVEMENT MARKING - LINE 12" - TYPE IV TAPE	FOOT	981	981	

* SPECIALTY ITEM



USER NAME = 14nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 2,0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 10/13/2023	DATE - 10/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T44	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				80% FED/20% STATE
				SN 016-1159
				0059
				BRIDGE
70307210	TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE	FOOT	830	830
70400100	TEMPORARY CONCRETE BARRIER	FOOT	300.0	300.0
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	184	184
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	275.0	275.0
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	210	210
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,815	1,815
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	297	297
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1,076	1,076
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	272	272
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	565	565
* 78006180	PREFORMED THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	568	568
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	248	248

* SPECIALTY ITEM



USER NAME = l1nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 2,0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 10/13/2023	DATE - 10/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T44	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED/20% STATE	
				SN 016-1159	
				0059	
				BRIDGE	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	701	701	
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	333	333	
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	1,531	1,531	
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	372	372	
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	78	78	
* 78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	5,361	5,361	
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	2,870	2,870	
X5091732	REPAIR BRIDGE RAIL	FOOT	15	15	
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1	
Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SQ YD	9	9	
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	4	4	
Z0006016	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4 INCHES	SQ YD	2,877	2,877	
Z0007400	BRIDGE SIDEWALK REPAIR (PARTIAL DEPTH)	SQ FT	12	12	

* SPECIALTY ITEM



USER NAME = 14nh	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 10/13/2023	DATE - 10/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T44	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED/20% STATE	
				SN 016-1159	
				0059	
				BRIDGE	
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	2,877	2,877	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	530	530	
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	14	14	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	6	6	
Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	14	14	
* Z0024475	TUBULAR MARKER	EACH	30	30	
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	EACH	2,714	2,714	
* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	116	116	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
∅ Z0076600	TRAINEES	HOURS	500	500	
∅ Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500	

* SPECIALTY ITEM



USER NAME = 14nh	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 10/13/2023	DATE - 10/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

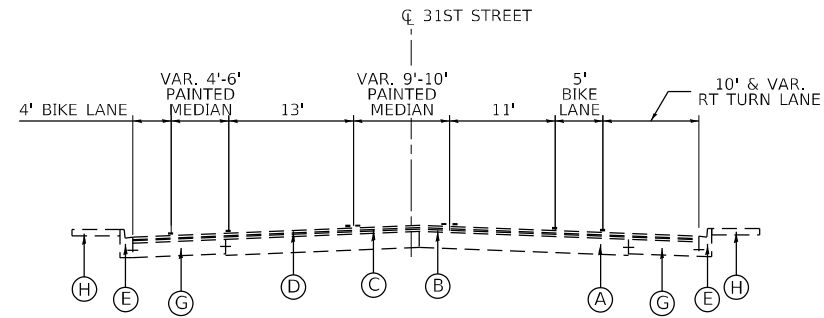
31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T44	

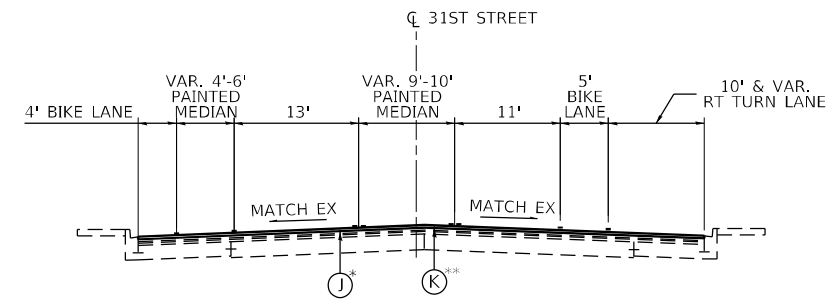
∅ 0042

REV-SEP



31ST STREET EXISTING TYPICAL SECTION

LOOKING EAST
STA 15+80.12 TO STA 16+80.34

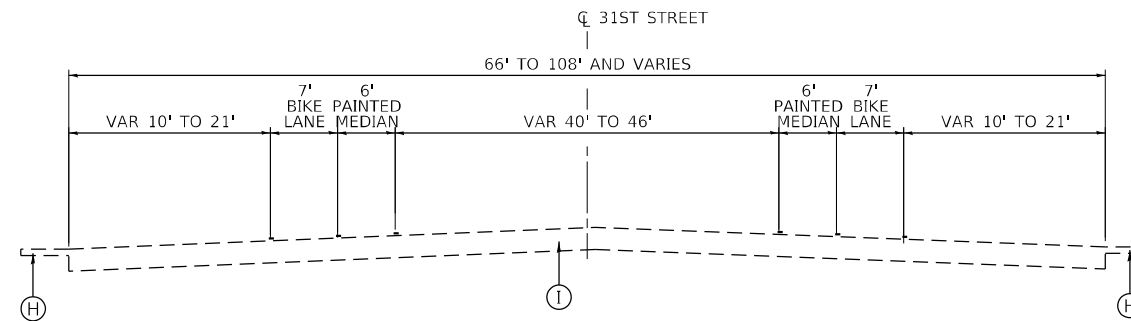


31ST STREET PROPOSED TYPICAL SECTION

LOOKING EAST
STA 15+80.12 TO STA 16+80.34

* LIMITS OF BUTT JOINT
STA 15+80.12 TO STA 16+15.12

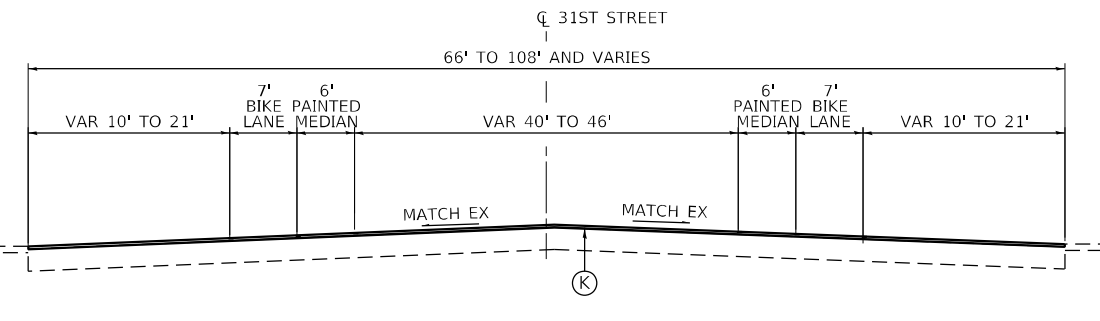
** LIMITS OF RESURFACING
STA 16+15.12 TO STA 16+80.34



31ST STREET EXISTING TYPICAL SECTION

LOOKING EAST
STA 16+80.34 TO STA 17+01.34
STA 20+98.67 TO STA 21+19.67

STRUCUTRE OMISSION
STA 17+01.34 TO STA 20+98.67



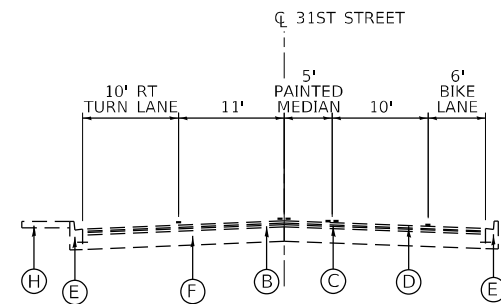
31ST STREET PROPOSED TYPICAL SECTION

LOOKING EAST
STA 16+80.34 TO STA 17+01.34
STA 20+98.67 TO STA 21+19.67

STRUCUTRE OMISSION
STA 17+01.34 TO STA 20+98.67

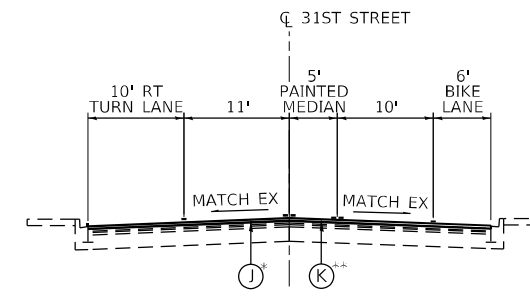
LEGEND

- (A) EXISTING PCC PAVEMENT, 10"
- (B) EXISTING HMA PAVEMENT, 1 1/2"
- (C) EXISTING HMA LEVELING BINDER, 3/4"
- (D) EXISTING HMA SURFACE COURSE, 1 1/2"
- (E) EXISTING CURB AND GUTTER, B-6.12
- (F) EXISTING PCC PAVEMENT, 9"
- (G) EXISTING PCC BASE COURSE, 9"
- (H) EXISTING PCC SIDEWALK
- (I) EXISTING PCC APPROACH SLABS
- (J) PROPOSED HMA SURFACE REMOVAL - BUTT JOINT
- (K) PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"



31ST STREET EXISTING TYPICAL SECTION

LOOKING EAST
STA 21+19.67 TO STA 22+10.87



31ST STREET PROPOSED TYPICAL SECTION

LOOKING EAST
STA 21+19.67 TO STA 22+10.87

* LIMITS OF BUTT JOINT
STA 21+75.87 TO STA 22+10.87

** LIMITS OF RESURFACING
STA 21+19.67 TO STA 21+75.87

USER NAME = l1nho	DESIGNED - NH	REVISED -
	DRAWN - NH	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED - ST	REVISED -
PLOT DATE = 10/13/2023	DATE - 10/2023	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T44	

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE MAINTENANCE OF TRAFFIC PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING THE EXECUTION OF THIS CONTRACT. THE CONTRACTOR MAY MODIFY THE MAINTENANCE OF TRAFFIC PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY MARKINGS SHALL BE REMOVED. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR PAVEMENT MARKING REMOVAL - WATER BLASTING.
3. ALL EXISTING PAVEMENT MARKING LINES ALONG 31ST STREET, WENTWORTH AVE, AND LA SALLE STREET THAT ARE REMOVED AS A RESULT OF A CONFLICT WITH THE REVISED TRAFFIC PATTERNS, OUTSIDE OF THE PAVEMENT MARKING LIMITS SHOWN IN THE PLANS, SHALL BE RE-ESTABLISHED FOR PROPOSED STRIPING AT THE COMPLETION OF THIS CONTRACT. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF PAVEMENT MARKING REMOVAL - WATER BLASTING. THE EXACT LOCATIONS OF ALL PROPOSED PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE RESIDENT ENGINEER.
4. THE REMOVAL OF ALL PAVEMENT MARKING TAPE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE SQUARE FOOT FOR SHORT TERM PAVEMENT MARKING REMOVAL.
5. ALL TRAFFIC CONTROL DEVICES SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS SPECIFIED IN THE TRAFFIC CONTROL SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
6. FOR STABILIZATION, ANY REQUIRED TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
7. EXISTING SIGNS WITHIN THE LIMITS OF TRAFFIC CONTROL WHICH ARE OBSTRUCTED BY OR OTHERWISE INTERFERED WITH BY CONSTRUCTION OPERATIONS OF DESIGNATED TRAFFIC CONTROL, SHALL BE COVERED OR REMOVED BY THE CONTRACTOR UNLESS SPECIFIED IN THE PLANS OR WHEN DIRECTED BY THE ENGINEER. THIS WORK SHALL BE AS SPECIFIED IN ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
8. SEE STRUCTURAL PLANS FOR BRIDGE DECK OVERLAY AND JOINT REPAIR INFORMATION.
9. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING ANY WORK.
10. A MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED TO THE DISTRICT ONE ARTERIALS TRAFFIC CONTROL SUPERVISOR 14 DAYS IN ADVANCE OF ANY STAGE CHANGES. THE MAINTENANCE OF TRAFFIC PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO: LANE CLOSURES, EXISTING GEOMETRICS, AND EQUIPMENT AND MATERIAL LOCATION.
11. ALL DRUMS SHALL BE PLACED AT 50' CENTERS ON TANGENTS, 20' CENTERS ON TAPERS AND 10' CENTERS ON RADII AND CURVES.
12. ALL DRUMS, VERTICAL PANELS, AND BARRICADES ADJACENT TO THE EDGE OF THE TRAVELED WAY SHALL BE EQUIPPED WITH MONO- DIRECTIONAL STEADY BURNING LIGHTS.
13. CHANGEABLE MESSAGE BOARDS WILL BE PLACED 2 WEEKS PRIOR TO START OF WORK, AT LOCATIONS DETERMINED BY THE ENGINEER, FOR ADVANCED WARNING.
14. THE ENGINEER SHALL COORDINATE WITH IDOT EXPRESSWAYS FOR TRAFFIC CONTROL REQUIRED ON THE DAN RYAN LOCALS AND DAN RYAN EXPRESS.
15. THE "ROAD CONSTRUCTION AHEAD" SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR WHEN NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.
16. PAVEMENT MARKING TAPE, TYPE IV (AND/OR TYPE III) SHOWN ON THE PLANS FOR ANY CONSTRUCTION STAGE THAT THE CONTRACTOR PROPOSES TO EXTEND OVER THE WINTER PERIOD SHALL MEAN MODIFIED URETHANE PAVEMENT MARKING AND WILL BE PAID FOR THEIR RESPECTIVE CONTRACT UNIT PRICE.
17. TEMPORARY INFORMATION SIGNS ON TEMPORARY SUPPORTS SHALL BE PROVIDED FOR ALL COMMERCIAL DRIVEWAYS THAT ARE LOCATED WITHIN A WORK AREA. THIS WORK SHALL BE PAID FOR PER DISTRICT 1 DETAIL TC-26. THESE SIGNS SHALL BE RELOCATED AS REQUIRED FOR EACH CONSTRUCTION STAGE AND SHALL BE PLACED AS DIRECTED BY THE ENGINEER. THIS SIGN RELOCATION WORK WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR TEMPORARY INFORMATION SIGNING.

SUGGESTED SEQUENCE OF OPERATIONS

PRE-STAGE

1. UTILIZING TEMPORARY LANE CLOSURES ALONG NB & SB I-90/94, DURING THE ALLOWABLE HOURS LISTED IN THE SPECIAL PROVISIONS, UTILIZE HIGHWAY AND DISTRICT STANDARDS TO INSTALL TRAFFIC CONTROL DEVICES AS REQUIRED TO CONSTRUCT PROTECTIVE SHIELDING UNDERNEATH S.N. 016-1159 AT LOCATIONS SHOWN IN THE STRUCTURAL PLANS.
2. INSTALL 31ST STREET DETOUR SIGNING AS SHOWN ON THE DETOUR PLAN.

STAGE 1

1. INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS TO CLOSE INSIDE 2 LANES ALONG WENTWORTH AVE AND LA SALLE STREET AND SHIFT TRAFFIC AS SHOWN IN THE STAGE 1 STAGING PLANS.
2. CLOSE S.N. 016-1159 TO TRAFFIC AND DETOUR TRAFFIC AS SHOWN ON THE DETOUR PLANS. INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS AS SHOWN IN THE STAGE 1 STAGING PLANS AND MAINTAIN PEDESTRIAN AND BIKE TRAFFIC CROSSING THE BRIDGE.
3. PERFORM BRIDGE REPAIRS AND CONSTRUCT BRIDGE DECK OVERLAY WITHIN THE LIMITS OF THE WESTBOUND LANES AS SHOWN IN THE STAGE 1 STAGING PLANS AND STRUCTURAL PLANS.
4. CONSTRUCT PORTIONS OF PROPOSED HMA RESURFACING AND BUTT JOINTS ALONG WENTWORTH AVENUE AND LA SALLE STREET AS SHOWN IN THE STAGE 1 STAGING PLANS.
5. ADJUST EXISTING DRAINAGE STRUCTURES AND MANHOLES AS SHOWN IN THE PLANS.

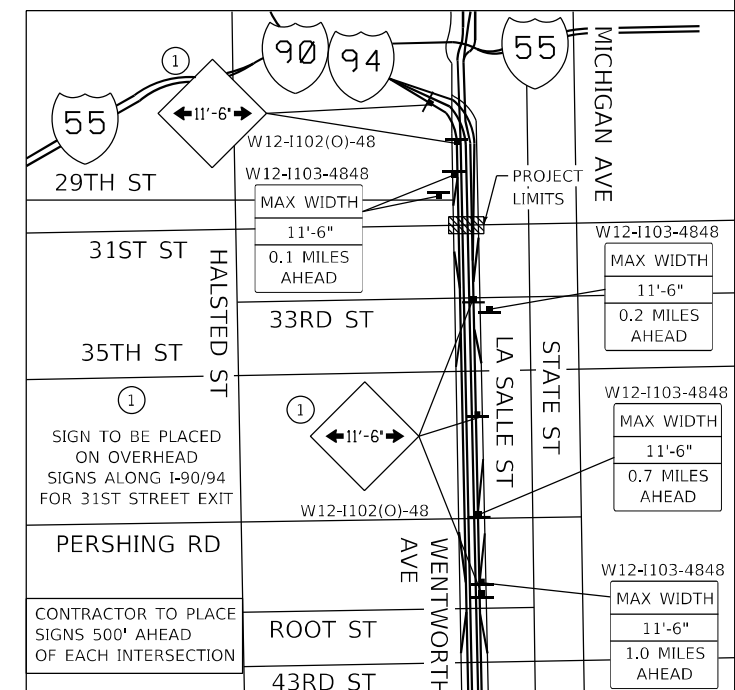
STAGE 2

1. INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS TO CLOSE INSIDE 2 LANES ALONG WENTWORTH AVE AND LA SALLE STREET AND SHIFT TRAFFIC AS SHOWN IN THE STAGE 2 STAGING PLANS.
2. CLOSE S.N. 016-1159 TO TRAFFIC AND DETOUR TRAFFIC AS SHOWN ON THE DETOUR PLANS. INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS AS SHOWN IN THE STAGE 2 STAGING PLANS AND MAINTAIN PEDESTRIAN AND BIKE TRAFFIC CROSSING THE BRIDGE.
3. PERFORM BRIDGE REPAIRS AND CONSTRUCT BRIDGE DECK OVERLAY WITHIN THE LIMITS OF THE EASTBOUND LANES AS SHOWN IN THE STAGE 2 STAGING PLANS AND STRUCTURAL PLANS.
4. CONSTRUCT PORTIONS OF PROPOSED HMA RESURFACING AND BUTT JOINTS ALONG WENTWORTH AVENUE AND LA SALLE STREET AS SHOWN IN THE STAGE 2 STAGING PLANS.
5. ADJUST EXISTING DRAINAGE STRUCTURES AND MANHOLES AS SHOWN IN THE PLANS.

POST STAGE

1. REMOVE DETOUR SIGNING AND OPEN 31ST STREET TO TRAFFIC.
2. UTILIZING WEEKEND LANE CLOSURES ALONG 31ST STREET, LA SALLE ST, AND WENTWORTH AVE, DURING THE ALLOWABLE HOURS LISTED IN THE SPECIAL PROVISIONS, UTILIZE HIGHWAY AND DISTRICT STANDARDS TO INSTALL TRAFFIC CONTROL DEVICES AS REQUIRED TO CONSTRUCT PROPOSED HMA RESURFACING AND BUTT JOINTS ALONG 31ST STREET, LA SALLE ST, AND WENTWORTH AVE AT LOCATIONS SHOWN IN THE ROADWAY PLANS.
3. UTILIZING WEEKEND LANE CLOSURES ALONG NB & SB I-90/94, DURING THE ALLOWABLE HOURS LISTED IN THE SPECIAL PROVISIONS, UTILIZE HIGHWAY AND DISTRICT STANDARDS TO INSTALL TRAFFIC CONTROL DEVICES AS REQUIRED TO REMOVE PROTECTIVE SHIELDING UNDERNEATH S.N. 016-1159 AT LOCATIONS SHOWN IN THE PLANS.
4. DURING THE ALLOWABLE HOURS LISTED IN THE SPECIAL PROVISIONS, UTILIZING APPLICABLE DISTRICT AND HIGHWAY STANDARDS, PLACE PERMANENT PAVEMENT MARKINGS ALONG 31ST STREET, WENTWORTH AVE, AND LA SALLE STREET AS SHOWN IN THE PLANS.
5. ADJUST EXISTING DRAINAGE STRUCTURES AND MANHOLES AS SHOWN IN THE PLANS.

**ADVANCED WIDTH RESTRICTION SIGNING DETAIL
NB I-90/94 STAGE 1 AND STAGE 2**



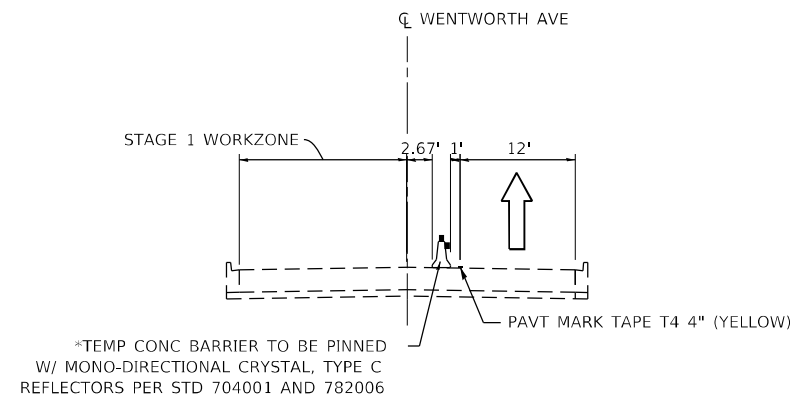
USER NAME = l1nho	DESIGNED - RC	REVISED -
DRAWN - RC	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 11/14/2023	DATE - 10/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)
MAINTENANCE OF TRAFFIC GENERAL NOTES**

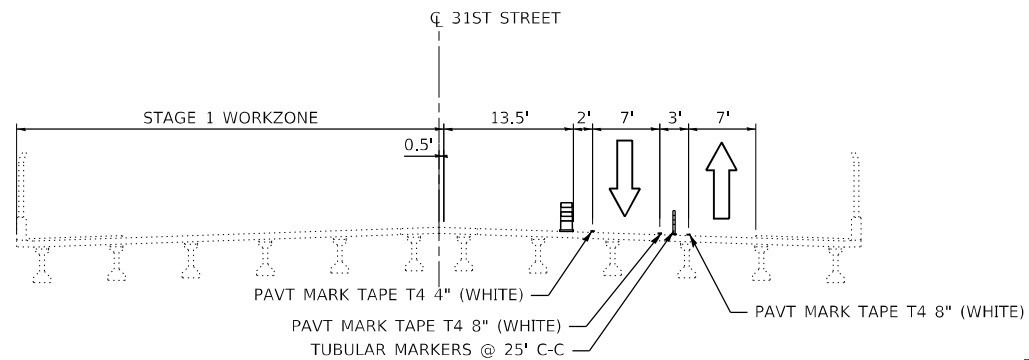
SCALE: N.T.S. SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.U. RE. 1465	SECTION FAU 1465 22 BJ	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T44	



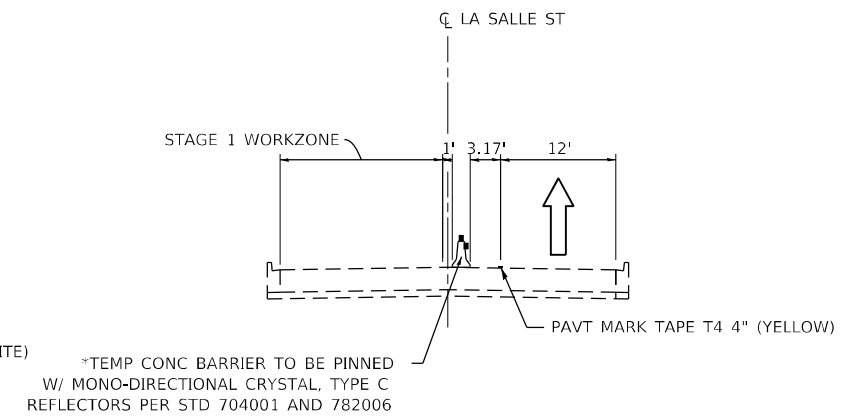
WENTWORTH AVE STAGE 1 TYPICAL SECTION

WENTWORTH AVE AT 31ST STREET
LOOKING SOUTH



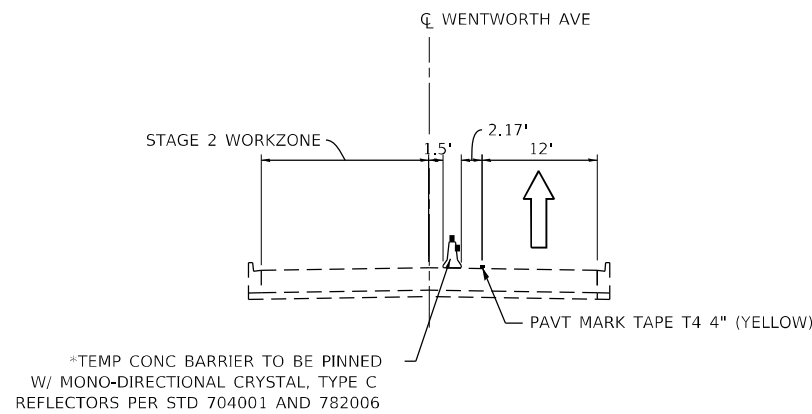
31ST STREET STAGE 1 TYPICAL SECTION

31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)
LOOKING EAST



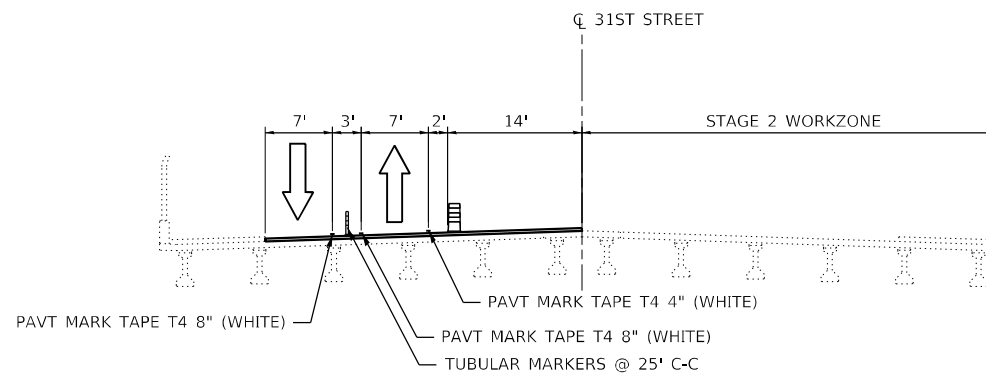
LA SALLE STREET STAGE 1 TYPICAL SECTION

LA SALLE STREET AT 31ST STREET
LOOKING NORTH



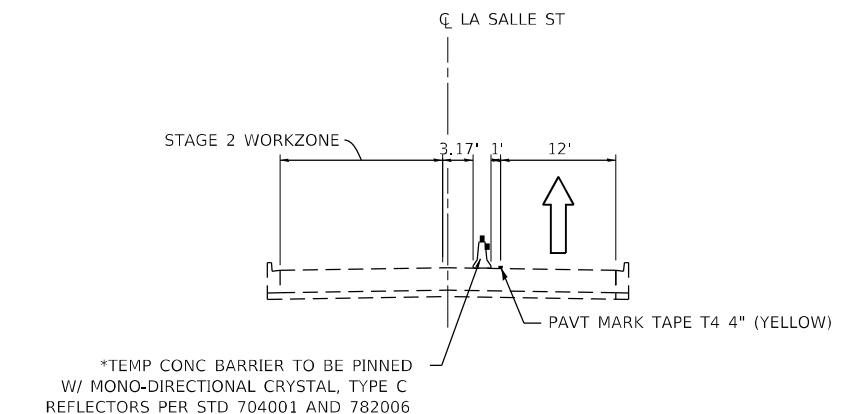
WENTWORTH AVE STAGE 2 TYPICAL SECTION

WENTWORTH AVE AT 31ST STREET
LOOKING SOUTH



31ST STREET STAGE 2 TYPICAL SECTION

31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)
LOOKING EAST



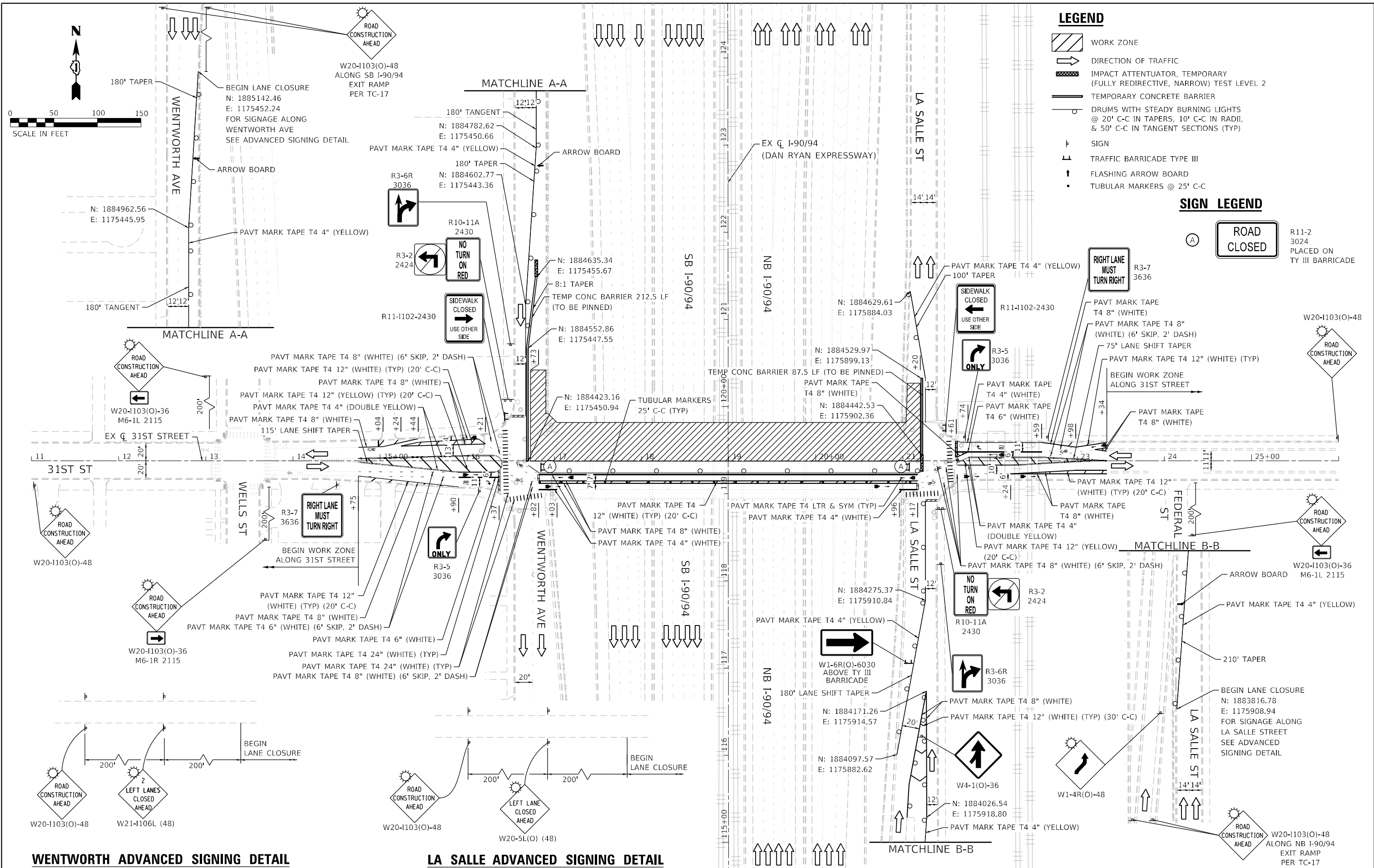
LA SALLE STREET STAGE 2 TYPICAL SECTION

LA SALLE STREET AT 31ST STREET
LOOKING NORTH

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

USER NAME = l14nho	DESIGNED - RC	REVISED -
	DRAWN - RC	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED - ST	REVISED -
PLOT DATE = 10/13/2023	DATE - 10/2023	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T44	



- LEGEND**
- WORK ZONE
 - DIRECTION OF TRAFFIC
 - IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW) TEST LEVEL 2
 - TEMPORARY CONCRETE BARRIER
 - DRUMS WITH STEADY BURNING LIGHTS @ 20' C-C IN TAPERS, 10' C-C IN RADII, & 50' C-C IN TANGENT SECTIONS (TYP)
 - SIGN
 - TRAFFIC BARRICADE TYPE III
 - FLASHING ARROW BOARD
 - TUBULAR MARKERS @ 25' C-C
- SIGN LEGEND**
- ROAD CLOSED
 - R11-2 3024 PLACED ON TY III BARRICADE

WENTWORTH ADVANCED SIGNING DETAIL

LA SALLE ADVANCED SIGNING DETAIL



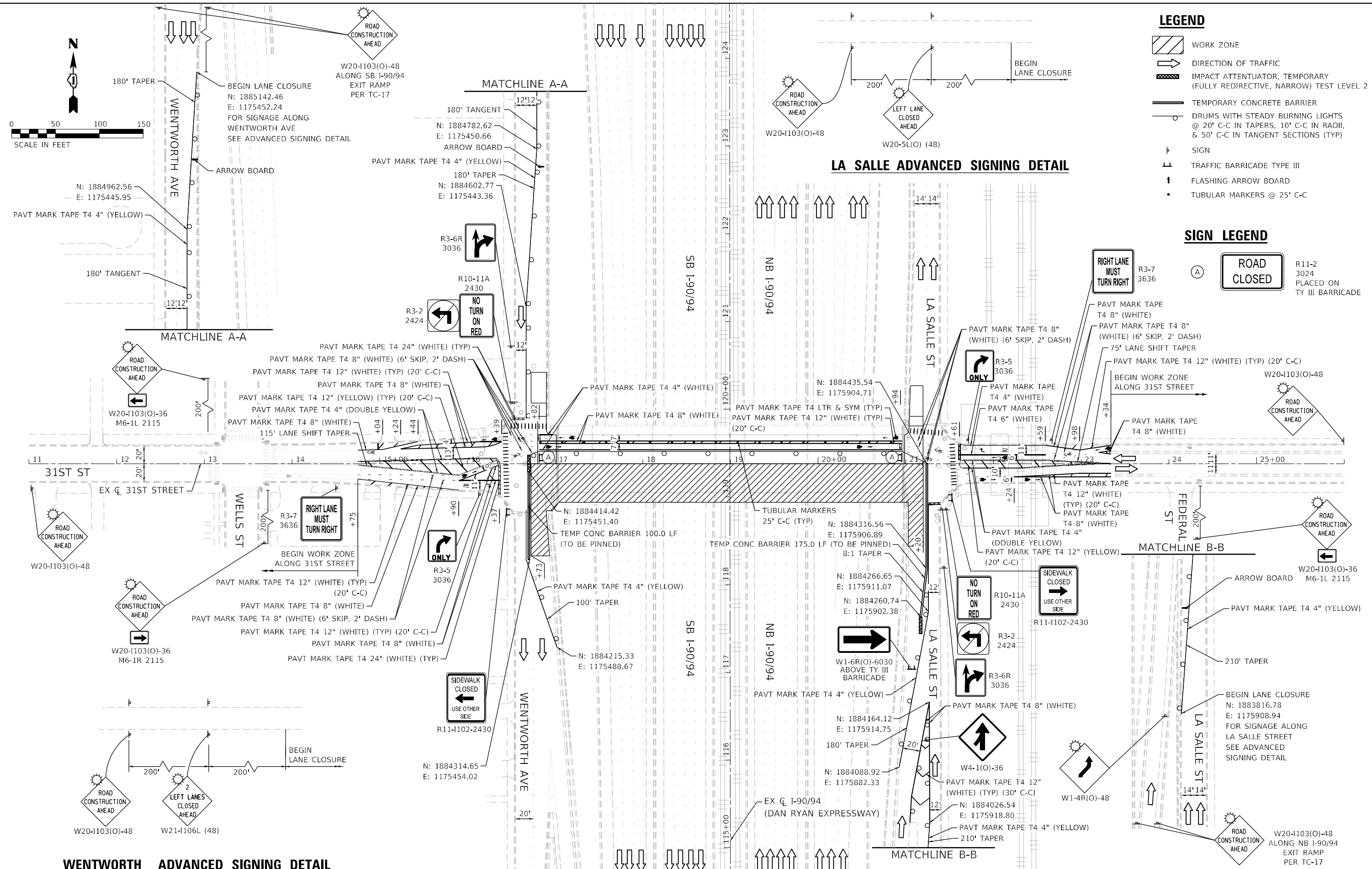
USER NAME = l4nho	DESIGNED - RC	REVISED -
PLOT SCALE = 100,0001' / in.	DRAWN - RC	REVISED -
PLOT DATE = 11/14/2023	CHECKED - ST	REVISED -
	DATE - 10/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)
STAGE 1**

SCALE: 1"=50' SHEET 3 OF 4 SHEETS STA. 14+75.23 TO STA. 23+34.01

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T44	



SIGN LEGEND

1 EAST M3-2 36X18	11 ROAD CLOSED TO THRU TRAFFIC R11-4-6030
2 WEST M3-4 36X18	12 31ST STREET SPECIAL 24"x18" VARIABLE 5" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND
3 DETOUR M4-9-3024	13 DETOUR AHEAD W20-2-4848
4 DETOUR M4-9-3024	14 END DETOUR M4-8a 30X15
5 DETOUR M4-9-3024	15 ROAD CLOSED R11-2 48X30
6 DETOUR M4-9-3024	16 EASTBOUND 31ST STREET CLOSED AT I-90/94 FOLLOW DETOUR SPECIAL 78X48
7 DETOUR M4-9-3024	17 WESTBOUND 31ST STREET CLOSED AT I-90/94 FOLLOW DETOUR SPECIAL 78X48
8 DETOUR M4-10R 4818	18 BRIDGE CLOSED R11-2B 48X30
9 DETOUR M4-10L 4818	19 ROAD CLOSED 500 FT W20-3-4848
10 ROAD CLOSED AHEAD W20-3-4848	

TYPE III BARRICADE

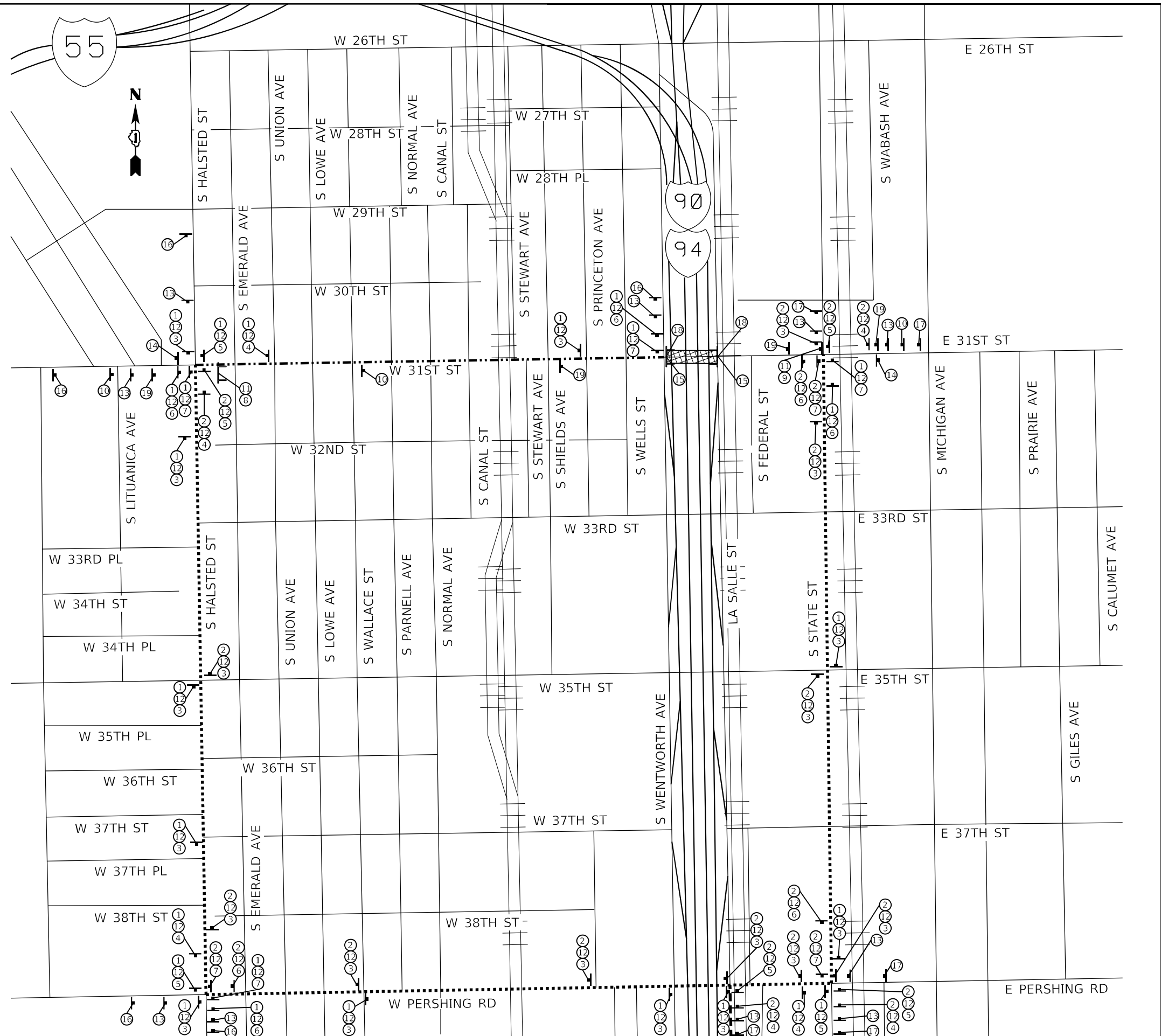
SB WENTWORTH AVE TO EB 31ST ST DETOUR

31ST ST WB DETOUR

31ST ST EB & WB DETOUR

NOTES:

- DETOUR SIGNAGE SHALL BE CONSIDERED INCLUDED IN THE COST OF TEMPORARY TRAFFIC CONTROL AND PROTECTION (SPECIAL) EXCEPT AS OTHERWISE NOTED.
- THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF DETOUR SIGNAGE.
- SEE DETAIL TC-21 FOR TYPICAL SIGN SPACING.
- A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF BRIDGE CLOSURE ON 31ST ST. THE CONTRACTOR SHALL PLACE ONE (1) PORTABLE CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT ALONG 31ST ST AS DIRECTED AND AT A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING CONSTRUCTION. THE MESSAGE SHALL BE APPROVED BY THE ENGINEER. THIS WORK IS PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR DAY FOR CHANGEABLE MESSAGE SIGN.
- LOCAL ACCESS SHALL BE PROVIDED AT ALL TIMES TO RESIDENTS AND BUSINESSES.



USER NAME = 14nho	DESIGNED - NH	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - NH	REVISED -
PLOT DATE = 11/10/2023	CHECKED - ST	REVISED -
	DATE - 10/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)
31ST STREET DETOUR PLAN**

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE. 1465	SECTION FAU 1465 22 BJ	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 13
CONTRACT NO. 62T44			ILLINOIS FED. AID PROJECT	

SIGN LEGEND

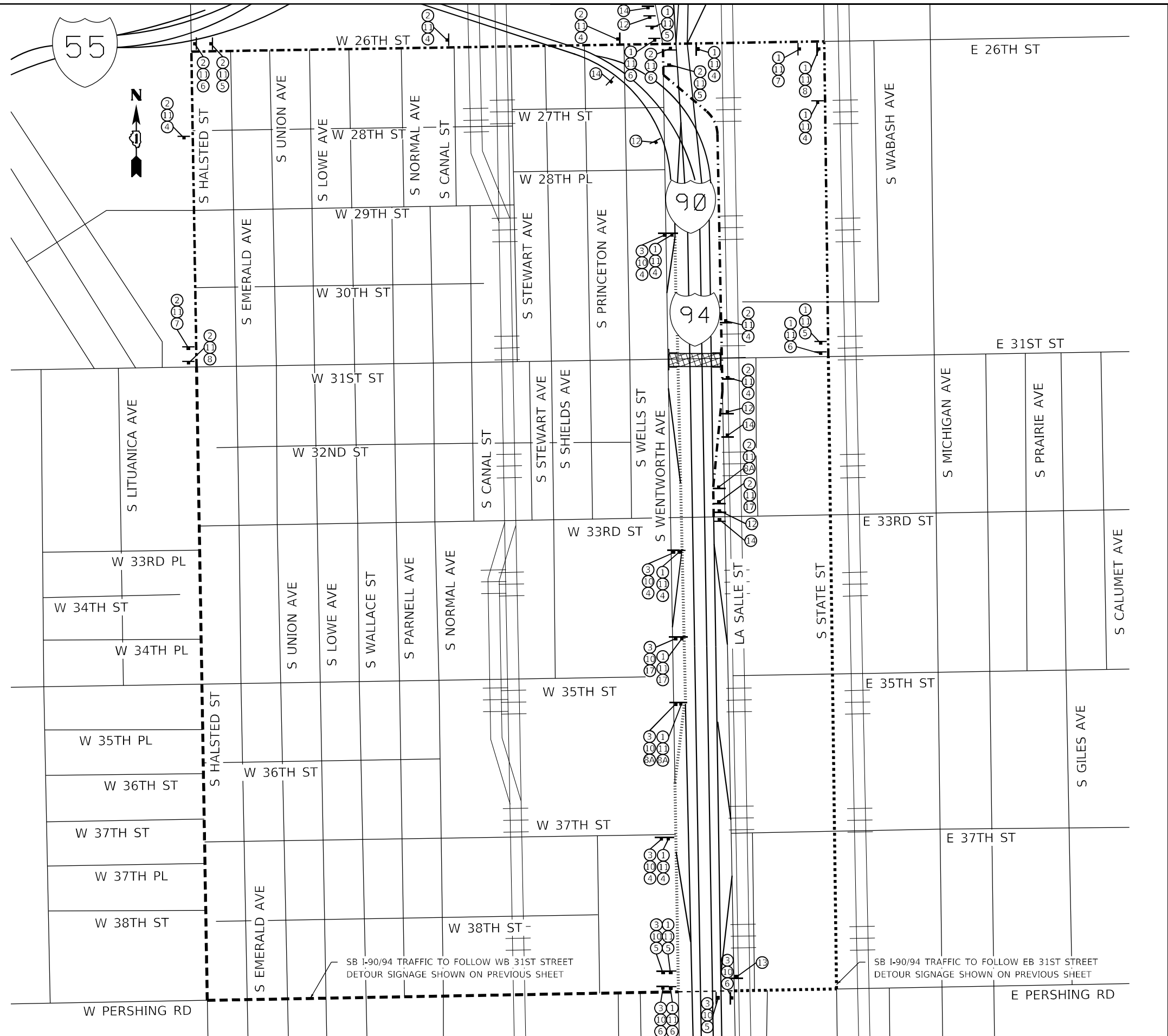
- ① EAST M3-2 36X18
- ② WEST M3-4 36X18
- ③ NORTH M3-1 36X18
- ④ DETOUR M4-9-3024
- ⑤ DETOUR M4-9-3024
- ⑥ DETOUR M4-9-3024
- ⑦ DETOUR M4-9-3024
- ⑧ DETOUR M4-9-3024
- ⑧A DETOUR M4-9-3024
- ⑨ DETOUR M4-10R 4818
- ⑩ LASALLE STREET SPECIAL 24"x18" VARIABLE 5" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND
- ⑪ 31ST STREET SPECIAL 24"x18" VARIABLE 5" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND
- ⑫ DETOUR AHEAD W20-2-4848
- ⑬ END DETOUR M4-8a 30X15
- ⑭ 31ST STREET CLOSED AT I-90/94 FOLLOW DETOUR SPECIAL 78X48
- ⑮ BRIDGE CLOSED R11-2B 48X30
- ⑯ ROAD CLOSED R11-2 48X30
- ⑰ DETOUR M4-9-3024

TYPE III BARRICADE

- NB I-90/94 TO EB 31ST STREET
- NB I-90/94 TO WB 31ST STREET
- NB I-90/94 TO EB/WB 31ST STREET
- SB I-90/94 TO EB 31ST STREET & NB LA SALLE ST
- SB I-90/94 TO WB 31ST STREET
- SB I-90/94 TO EB 31ST STREET
- SB I-90/94 TO EB/WB 31ST STREET & NB LASALLE ST

NOTES:

1. DETOUR SIGNAGE SHALL BE CONSIDERED INCLUDED IN THE COST OF TEMPORARY TRAFFIC CONTROL AND PROTECTION (SPECIAL) EXCEPT AS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF DETOUR SIGNAGE.
3. SEE DETAIL TC-21 FOR TYPICAL SIGN SPACING.
4. A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF BRIDGE CLOSURE ON 31ST ST. THE CONTRACTOR SHALL PLACE ONE (1) PORTABLE CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT ALONG 31ST ST AS DIRECTED AND AT A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING CONSTRUCTION. THE MESSAGE SHALL BE APPROVED BY THE ENGINEER. THIS WORK IS PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR DAY FOR CHANGEABLE MESSAGE SIGN.
5. LOCAL ACCESS SHALL BE PROVIDED AT ALL TIMES TO RESIDENTS AND BUSINESSES.



SB I-90/94 TRAFFIC TO FOLLOW WB 31ST STREET
DETOUR SIGNAGE SHOWN ON PREVIOUS SHEET

SB I-90/94 TRAFFIC TO FOLLOW EB 31ST STREET
DETOUR SIGNAGE SHOWN ON PREVIOUS SHEET



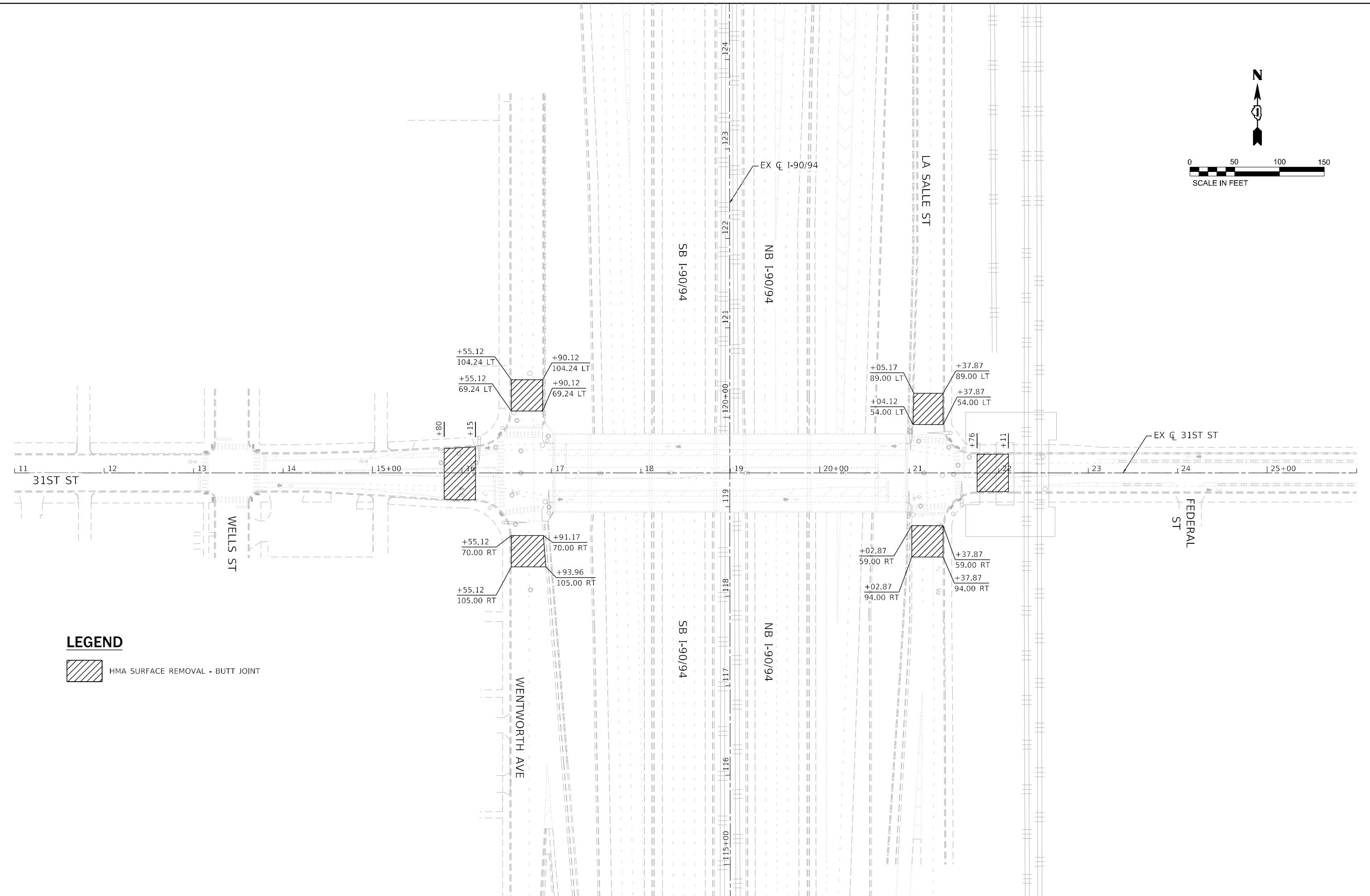
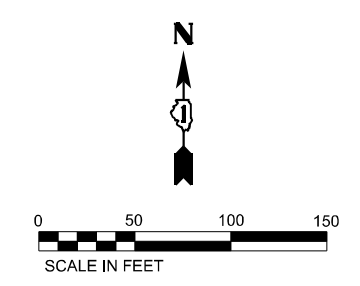
USER NAME = l4nho	DESIGNED - NH	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - NH	REVISED -
PLOT DATE = 11/10/2023	CHECKED - ST	REVISED -
	DATE - 10/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)
I-90/94 DETOUR PLAN**

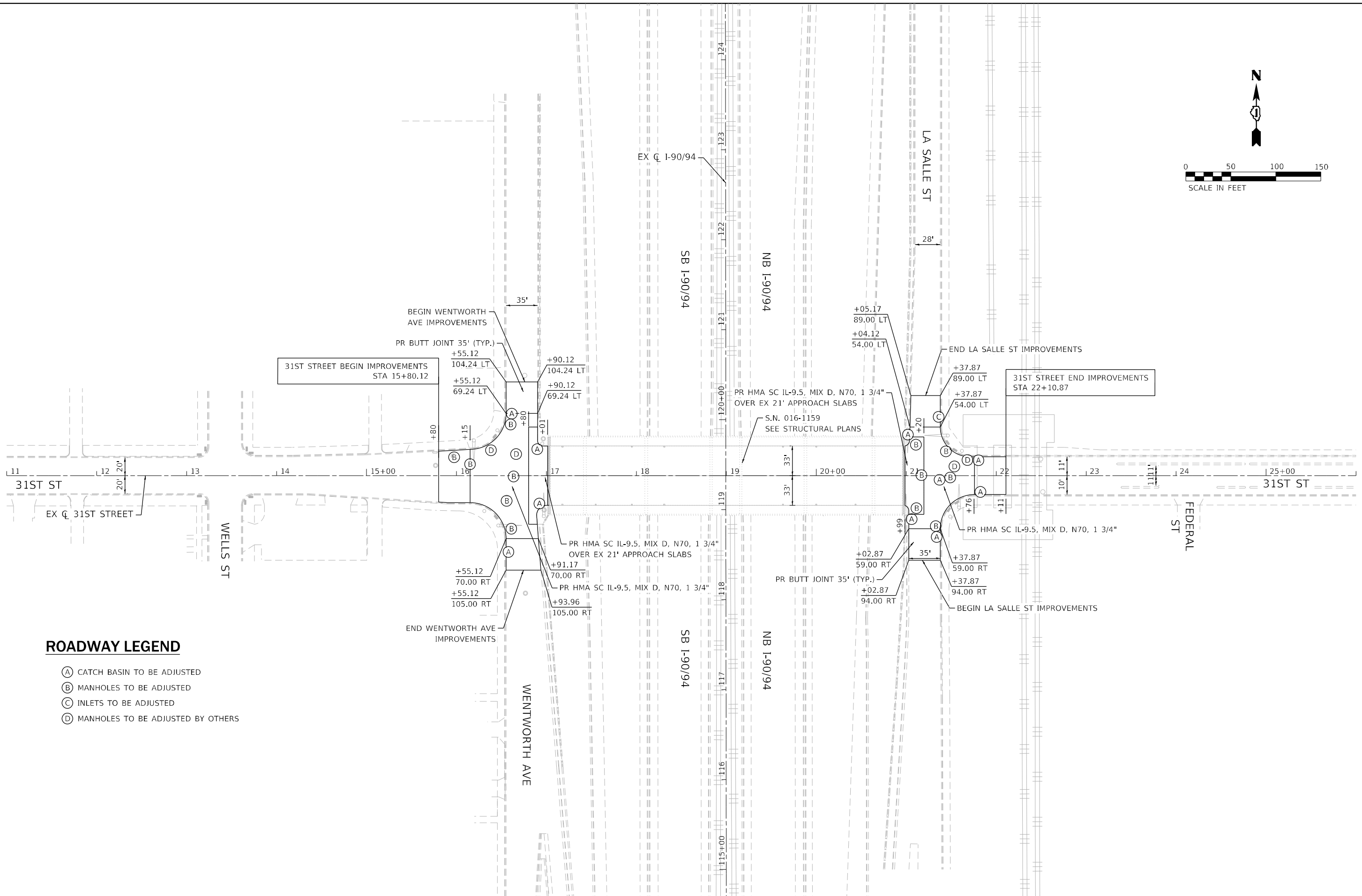
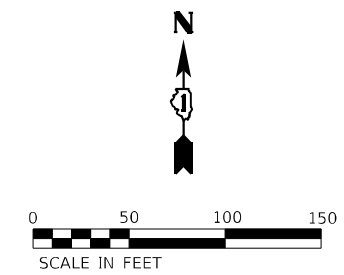
SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE. 1465	SECTION FAU 1465 22 BJ	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 14
CONTRACT NO. 62T44			ILLINOIS FED. AID PROJECT	



LEGEND

 HMA SURFACE REMOVAL - BUTT JOINT



- ROADWAY LEGEND**
- (A) CATCH BASIN TO BE ADJUSTED
 - (B) MANHOLES TO BE ADJUSTED
 - (C) INLETS TO BE ADJUSTED
 - (D) MANHOLES TO BE ADJUSTED BY OTHERS



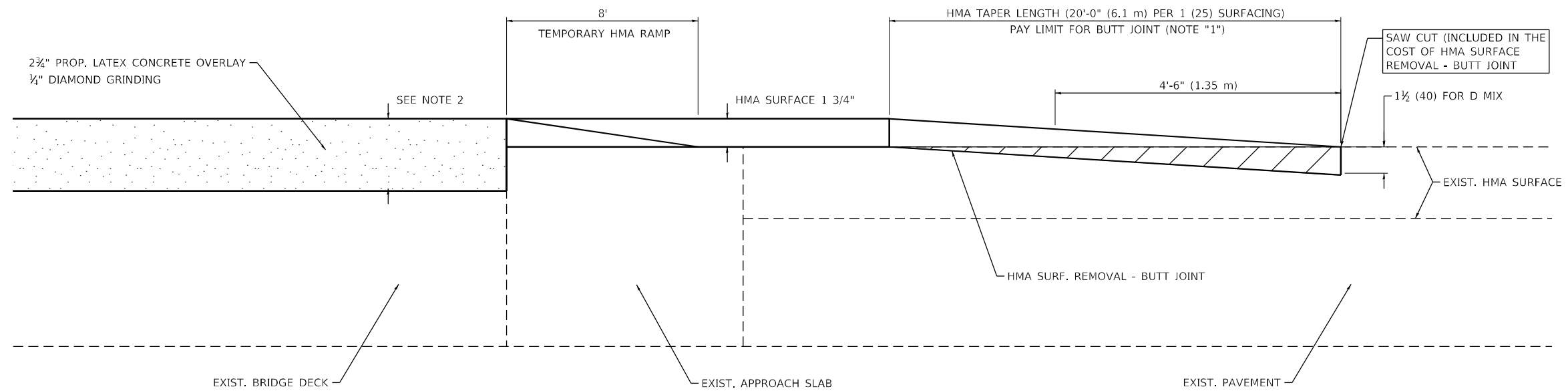
USER NAME = 14nho	DESIGNED - NH	REVISED -
DRAWN - NH	REVISED -	
PLOT SCALE = 100,0001' / in.	CHECKED - ST	REVISED -
PLOT DATE = 10/13/2023	DATE - 10/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)
ROADWAY PLAN**

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 14+75.23 TO STA. 23+34.01

F.A.U. RTE. 1465	SECTION FAU 1465 22 BJ	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T44	



BUTT JOINT AND HMA TAPER FOR SCARIFICATION AND RESURFACING

NOTES:

1. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
2. SEE BRIDGE PLANS FOR SCARIFICATION THICKNESS.
3. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA SURFACE REMOVAL, BUTT JOINT".

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

LIN ENGINEERING, LTD. Consulting Engineers <small>Westmont, Illinois</small>	USER NAME = 14nho	DESIGNED - NH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY) BUTT JOINT AND HMA TAPER DETAILS	F.A.U. RTE. 1465	SECTION FAU 1465 22 BJ	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 17		
	PLOT SCALE = 2,000' / in.	CHECKED - ST	REVISED -			SCALE: N.T.S.	SHEET 2 OF 2 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			
	PLOT DATE = 10/13/2023	DATE - 10/2023	REVISED -									

BEGIN WENTWORTH AVE IMPROVEMENTS
N: 1885141.80
E: 1175430.14

WENTWORTH AVE

N: 1885059.82
E: 1175443.40

12'12"11"

MATCHLINE A-A

31ST STREET BEGIN IMPROVEMENTS
STA 14+75.23

31ST ST

EX C 31ST STREET

WELLS ST

PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- ② THERMOPLASTIC PAVEMENT MARKING 4" (DOUBLE YELLOW SOLID) (8" C-C)
- ③ THERMOPLASTIC PAVEMENT MARKING 4" (WHITE SOLID)
- ④ THERMOPLASTIC PAVEMENT MARKING 4" (WHITE 18' SKIP, 6' DASH)
- ⑤ THERMOPLASTIC PAVEMENT MARKING 6" (WHITE SOLID)
- ⑥ THERMOPLASTIC PAVEMENT MARKING 6" (WHITE 2' DASH 6' SKIP)
- ⑦ THERMOPLASTIC PAVEMENT MARKING 8" (WHITE SOLID)
- ⑧ THERMOPLASTIC PAVEMENT MARKING 12" (WHITE SOLID) (5 MIN.)
- ⑨ THERMOPLASTIC PAVEMENT MARKING 24" (WHITE SOLID)
- ⑩ THERMOPLASTIC PAVEMENT MARKING 12" (YELLOW SOLID) (5 MIN.)
- ⑪ THERMOPLASTIC PAVEMENT MARKING 8" (WHITE 2' DASH 6' SKIP)
- ⑫ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑬ MODIFIED URETHANE PAVEMENT MARKING 4" (WHITE SOLID)
- ⑭ MODIFIED URETHANE PAVEMENT MARKING 4" (DOUBLE YELLOW SOLID) (8" C-C)
- ⑮ MODIFIED URETHANE PAVEMENT MARKING 6" (WHITE SOLID)
- ⑯ MODIFIED URETHANE PAVEMENT MARKING 6" (WHITE 2' DASH 6' SKIP)
- ⑰ MODIFIED URETHANE PAVEMENT MARKING 12" (WHITE SOLID) (5 MIN.)
- ⑱ MODIFIED URETHANE PAVEMENT MARKING 24" (WHITE SOLID)
- ⑲ MODIFIED URETHANE PAVEMENT MARKING 8" (WHITE SOLID)
- ⑳ MODIFIED URETHANE PAVEMENT MARKING 8" (WHITE 2' DASH 6' SKIP)
- ㉑ PREFORMED THERMOPLASTIC PAVEMENT MARKING 24" (GREEN SUPPLEMENTED BICYCLE LANE DOTTED LINE EXTENSION)

END WENTWORTH AVE IMPROVEMENTS
N: 1884214.62
E: 1175461.53

WENTWORTH AVE

MATCHLINE A-A

EX C I-90/94

SB I-90/94

NB I-90/94

S.N. 016-1159
SEE STRUCTURAL PLANS

TUBULAR MARKERS
25' C-C (TYP)

SB I-90/94

NB I-90/94

LA SALLE ST

END LA SALLE ST IMPROVEMENTS
N: 1884630.02
E: 1175899.56

31ST STREET END IMPROVEMENTS
STA 23+34.01



MATCHLINE B-B

13'13"

14'14"

14'14"

FEDERAL ST

LA SALLE ST

BEGIN LA SALLE ST IMPROVEMENTS
N: 1883817.14
E: 1175922.93

MATCHLINE B-B

N: 1884189.45
E: 1175901.73

30' C-C TYP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)
PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 14+75.23 TO STA. 23+34.01

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	18
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T44	



USER NAME = 14nho	DESIGNED - NH	REVISED -
PLOT SCALE = 100,0001' / in.	DRAWN - NH	REVISED -
PLOT DATE = 10/13/2023	CHECKED - ST	REVISED -
	DATE - 10/2023	REVISED -

Existing Structure: SN 016-1159 built in 1961 as FAI Rte. 94, Section S-2424.2-1B at Sta. 10+00. The structure is a seven-span continuous steel beam bridge composite in positive moment regions, supported on stub abutments and multi-column piers with shaft foundations. In 1971, the pier crash walls were raised. In 2001, the superstructure was replaced and the substructure was retrofit and repaired. In 2018, the slope walls were repaired. The bridge measures 397'-4" back to back abutments and 88'-0" out to out, with no skew.

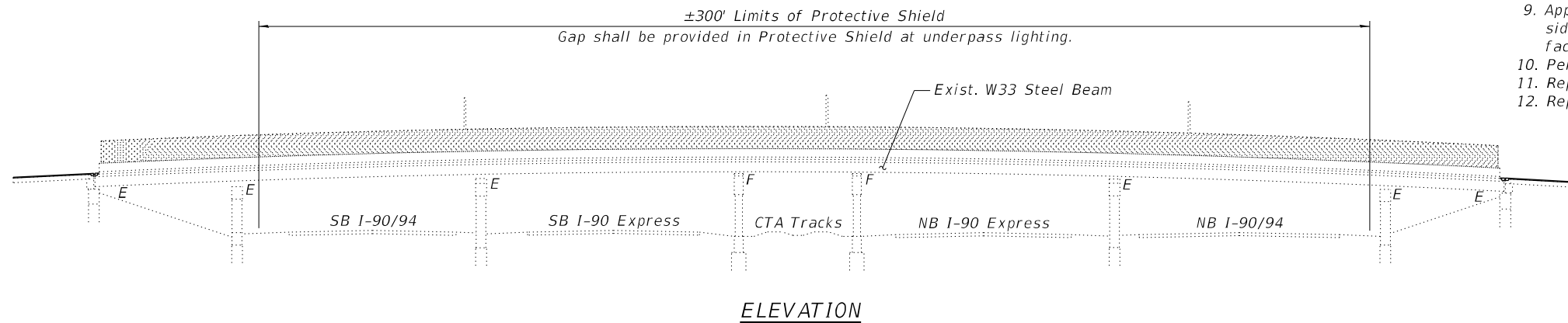
31st Street will be closed to vehicle traffic during construction. Stage construction will be utilized to maintain pedestrian traffic.

INDEX OF SHEETS

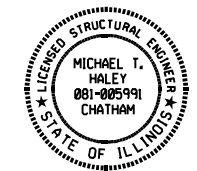
1. General Plan and Elevation
2. General Data
3. Stage Construction Details
4. Deck Slab Repair Plan
5. Adjusting Existing Scupper Details
- 6-8. Joint Replacement Details
9. Preformed Joint Strip Seal
10. Bar Splicer Assembly Details
- 11-18. Substructure Repairs
19. Slope Wall Repair Details

SCOPE OF WORK

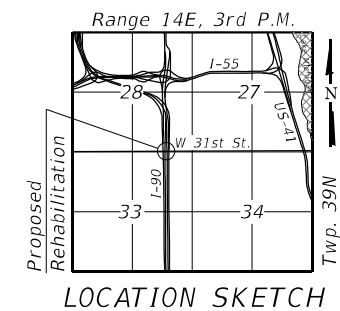
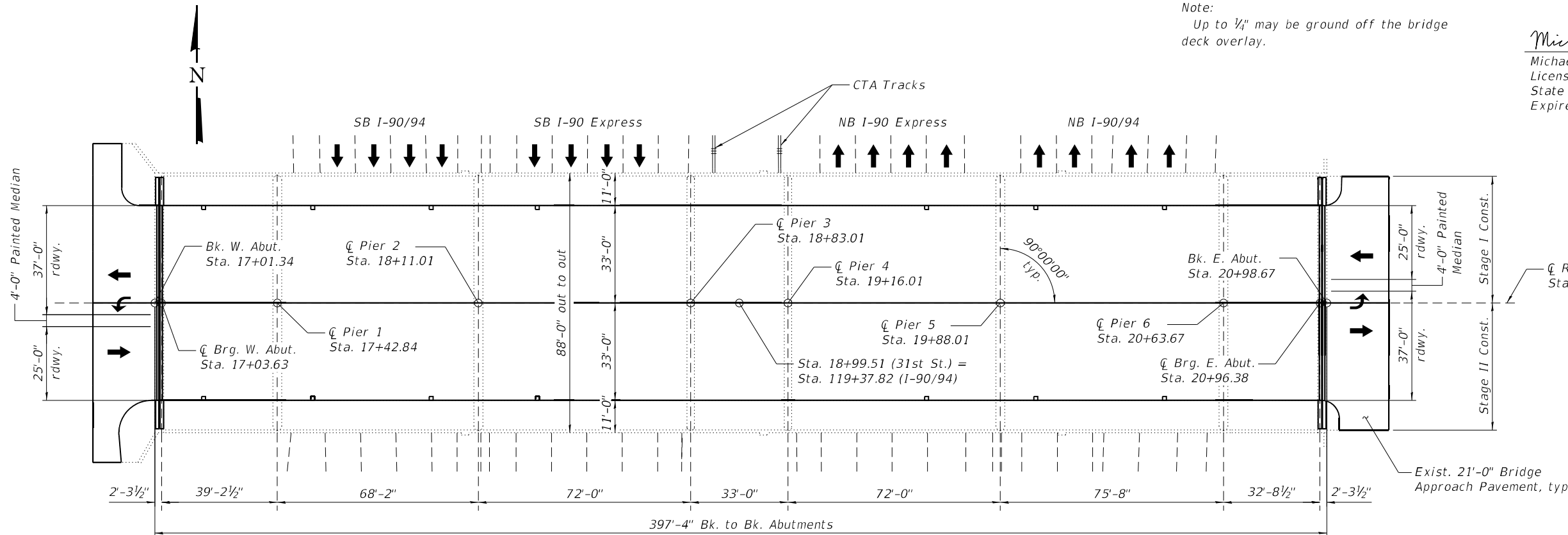
1. Remove portions of existing concrete deck and sidewalks as required to replace expansion joints at abutments.
2. Perform 3/4" scarification on top of existing bridge deck.
3. Complete concrete repairs to the bridge deck, approaches and parapets.
4. Provide new strip seal expansion joints and adjacent superstructure concrete over abutments.
5. Adjust scuppers for the new deck thickness.
6. Place new 2 3/4" latex concrete overlay on deck and HMA overlay on approach pavement.
7. Perform 1/4" diamond grinding on the new concrete overlay.
8. Perform bridge deck grooving on new concrete overlay and apply protective coat to new overlay and top/inside surface of new sidewalk concrete.
9. Apply Concrete Sealer to top/inside surfaces of existing parapets and sidewalks, the top surface of the abutment bearing seats, and the inside face of the abutment backwalls.
10. Perform concrete repairs on substructure units.
11. Replace damaged sections of existing slope wall and fill voids with CLSM.
12. Repair/replace damaged sections of fence.



Note:
Up to 1/4" may be ground off the bridge deck overlay.



Michael T. Haley 10/12/2023
 Michael T. Haley Date
 Licensed Structural Engineer
 State of Illinois No. 081-005991
 Expires 11/30/2024



DESIGN SPECIFICATIONS
 (New Construction)
 2002 AASHTO Standard Specifications
 for Highway Bridges, 17th Edition

DESIGN STRESSES
 FIELD UNITS - NEW CONSTRUCTION
 f'c = 4,000 psi (Superstructure)
 fy = 60,000 psi (Reinforcement)

LOADING HS-20
 Allow 25#/sq. ft. for future wearing surface.

GENERAL PLAN AND ELEVATION
31ST STREET OVER I-90/I-94/CTA
 F.A.U. RTE. 1465 SECTION FAU 1465 22 BJ
 COOK COUNTY
 STATION 18+99.51
 STRUCTURE NO. 016-1159

MODEL: Default
 FILE NAME: E:\1910-365\SN 016-1159\Final Design\CADD\CADD_Sheets\0161159-42744-001-GPE.dgn



USER NAME =	DESIGNED - MTH	REVISED -
PLOT SCALE =	CHECKED - CZ	REVISED -
PLOT DATE = 10/23/2023	DRAWN - AJF	REVISED -
	CHECKED - CZ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 016-1159

SHEET 1 OF 19 SHEETS

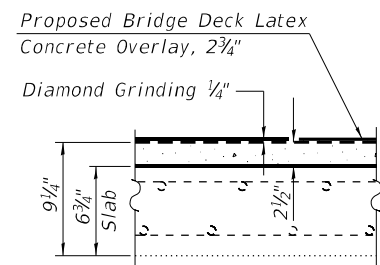
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	19
CONTRACT NO. 62T44				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

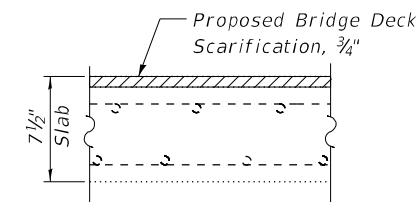
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
4. Cost of removal and disposal of existing expansion joints shall be included in the cost of Concrete Removal.
5. Protective Coat shall be applied to the top surface of new overlay and the inside and top faces of new concrete adjacent to joints.
6. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the concrete adjacent to joints is poured at an ambient temperature other than 50°F.
7. Expansion joints shall be fabricated to conform to the existing cross slope of the bridge.
8. Concrete Sealer shall be applied to the top of existing bridge seats, inside face of existing backwalls, existing inside and top of parapets and sidewalks.
9. The contractor shall coordinate construction with Chicago Transit Authority (CTA). CTA traffic planning must be notified at least 2 weeks in advance of any impacts to bus stops or bus operations. Traffic.Planning@transitchicago.com or 312-681-4176.
10. The Contractor needs to submit complete construction process plans (CPP's) to CTA for review and comments prior to the commencement of any work.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	7.5	-	7.5
Slope Wall Removal	Sq. Yd.	-	272	272
Protective Shield	Sq. Yd.	2,934	-	2,934
Concrete Superstructure	Cu. Yd.	8.5	-	8.5
Protective Coat	Sq. Yd.	2,907	-	2,907
Reinforcement Bars, Epoxy Coated	Pound	610	-	610
Bar Splicers	Each	8	-	8
Slope Wall 4 Inch	Sq. Yd.	-	272	272
Preformed Joint Strip Seal	Foot	167	-	167
Concrete Sealer	Sq. Ft.	10,779	860	11,639
Controlled Low-Strength Material	Cu. Yd.	-	90.7	90.7
Chain Link Fence, 4'	Foot	-	18	18
Repair Bridge Rail	Foot	15	-	15
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	2,870	-	2,870
Approach Slab Repair (Full Depth)	Sq. Yd.	9	-	9
Bridge Deck Latex Concrete Overlay, 2 3/4 Inches	Sq. Yd.	2,877	-	2,877
Bridge Sidewalk Repair (Partial Depth)	Sq. Ft.	12	-	12
Approach Slab Repair (Partial Depth)	Sq. Yd.	4	-	4
Bridge Deck Scarification, 3/4 Inch	Sq. Yd.	2,877	-	2,877
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	8	522	530
Structural Repair of Concrete (Depth Greater than 5")	Sq. Ft.	-	14	14
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	6	-	6
Drainage Scuppers to be Adjusted	Each	14	-	14
Diamond Grinding (Bridge Section)	Sq. Yd.	2,714	-	2,714



PROPOSED BRIDGE DECK CROSS SECTION



EXISTING BRIDGE DECK CROSS SECTION

MODEL: Default
FILE NAME: E:\1910-36\SN 016-1159\Final Design\CADD_Sheets\0161159-462744-002-GenData.dgn



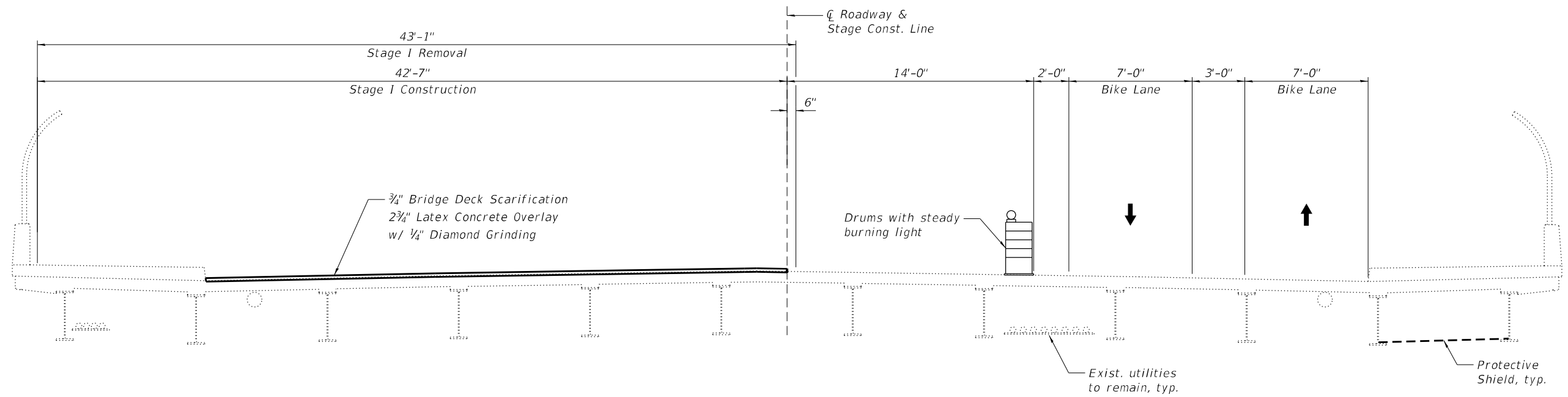
USER NAME =	DESIGNED - MTH	REVISED -
	CHECKED - CZ	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE = 11/15/2023	CHECKED - CZ	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

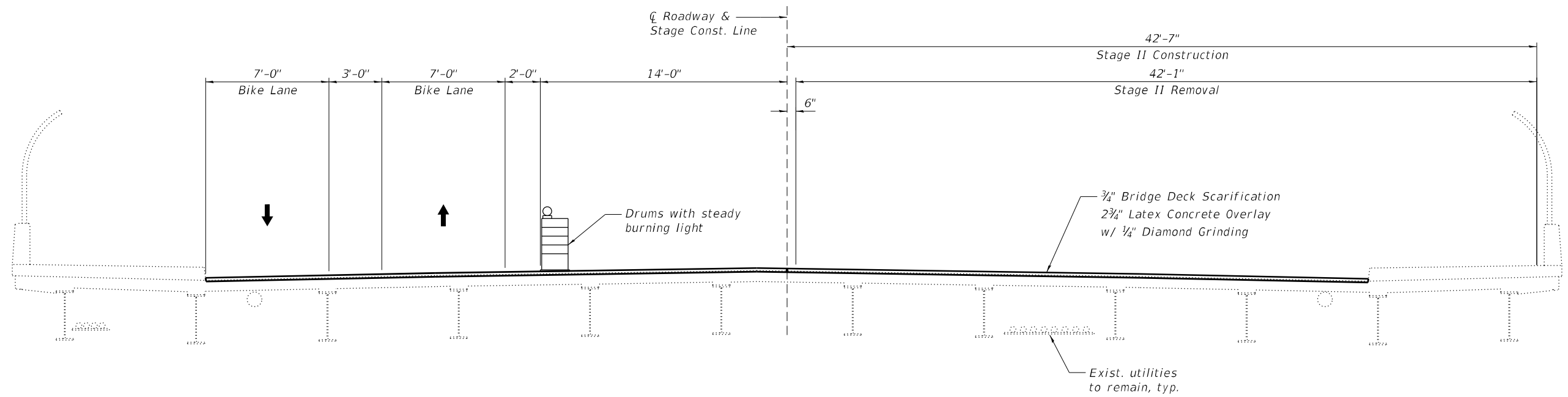
**GENERAL DATA
STRUCTURE NO. 016-1159**

SHEET 2 OF 19 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	20
CONTRACT NO. 62T44				
ILLINOIS		FED. AID PROJECT		



STAGE I REMOVAL & CONSTRUCTION



STAGE II REMOVAL & CONSTRUCTION

Note:
All sections are looking east.

MODEL: Default
FILE NAME: E:\1910-36\SN 016-1159\Final Design\CADD_Sheets\0161159-42T44-03-StageConst.Dcls.dgn

LE LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

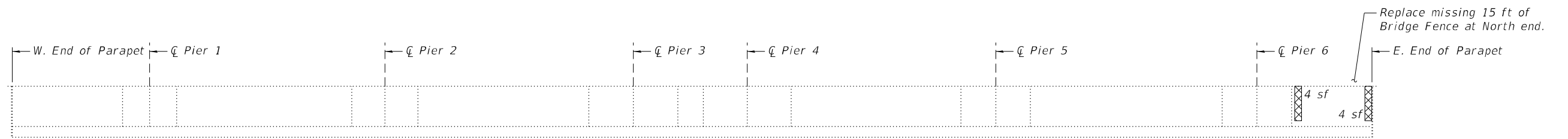
USER NAME =	DESIGNED - MTH	REVISED -
	CHECKED - CZ	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE = 10/12/2023	CHECKED - CZ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

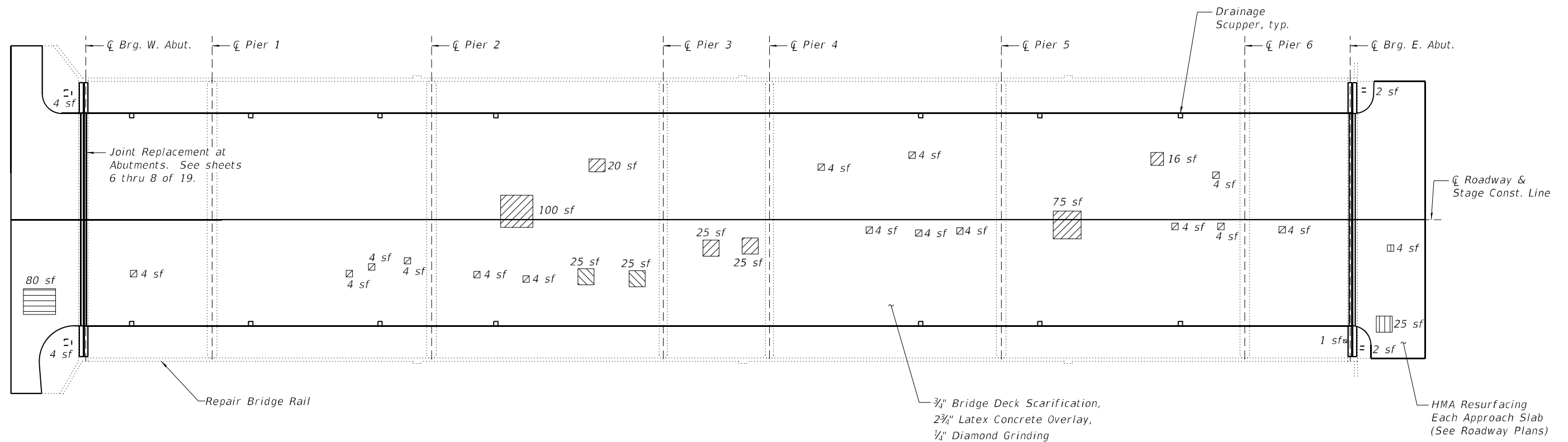
STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 016-1159

SHEET 3 OF 19 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	21
CONTRACT NO. 62T44				
ILLINOIS		FED. AID PROJECT		



SOUTH FACE OF NORTH PARAPET
(Looking North)



DECK PLAN

LEGEND

- Deck Slab Repair (Partial Depth) (For Information Only)
 - Deck Slab Repair (Full Depth)
 - Structural Repair of Concrete (Depth ≤ 5")
 - Approach Slab Repair (Partial Depth)
 - Approach Slab Repair (Full Depth)
 - Bridge Sidewalk Repair (Partial Depth)
- sf Square Feet

Notes:
 Repair areas shown are estimated. The Engineer shall document actual locations of repairs on As-Built Plans.
 Areas shown for Deck Slab Repair (Partial Depth) are for information only. See Bridge Deck Latex Concrete Overlay Special Provisions.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Repair Bridge Rail	Foot	15
Approach Slab Repair (Full Depth)	Sq. Yd.	9
Approach Slab Repair (Partial Depth)	Sq. Yd.	4
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft	8
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	6
Bridge Sidewalk Repair (Partial Depth)	Sq. Ft.	12

MODEL: Default
 FILE NAME: E:\1910-36(SN_016-1159)\Final Design\CADD_Sheets\0161159-62T44-004-DeckSlabRprPlan.dgn

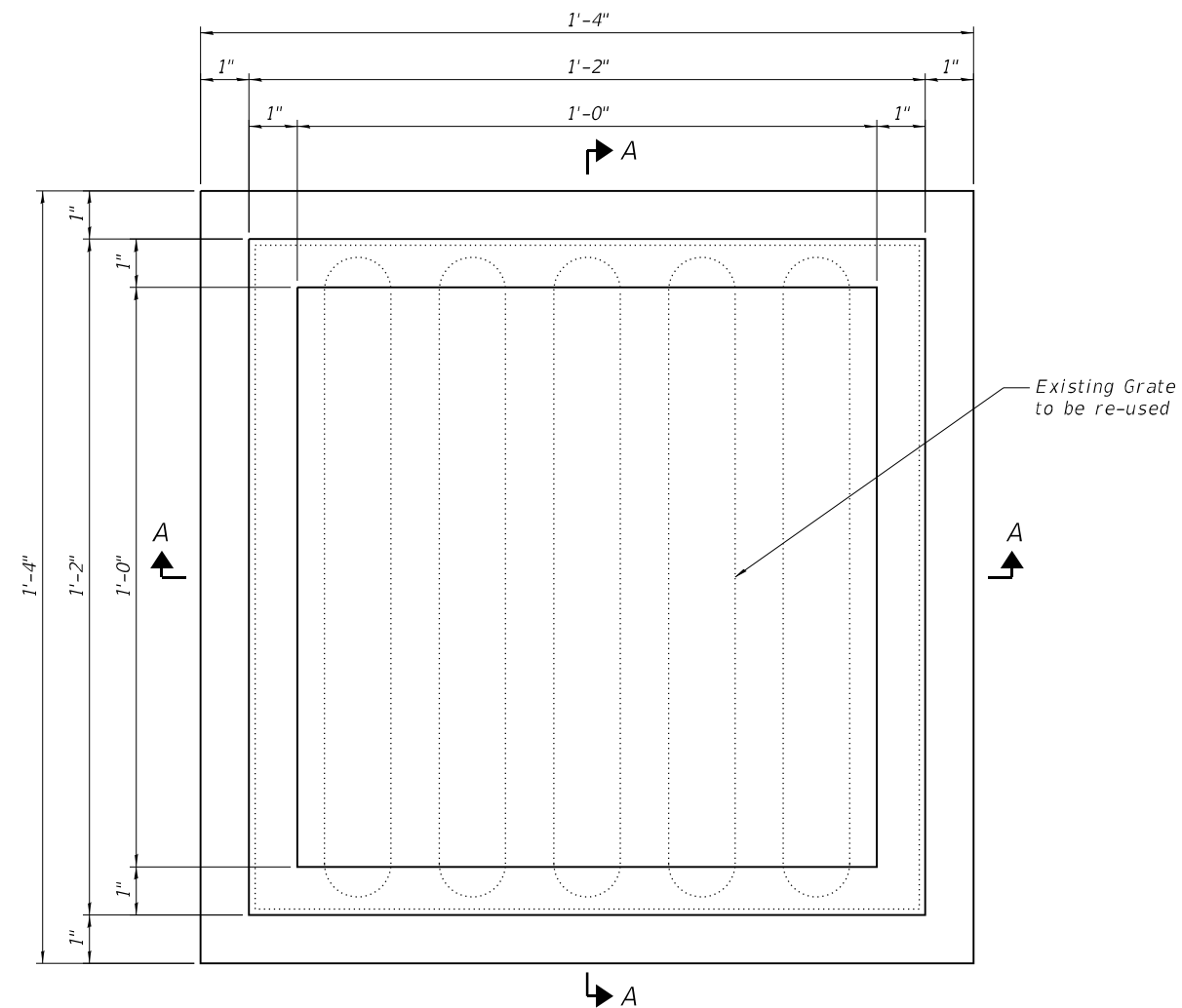
Lin Engineering, Ltd. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - MTH	REVISED -
	PLOT SCALE =	CHECKED - CZ	REVISED -
	PLOT DATE = 11/14/2023	DRAWN - AJF	REVISED -
		CHECKED - CZ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

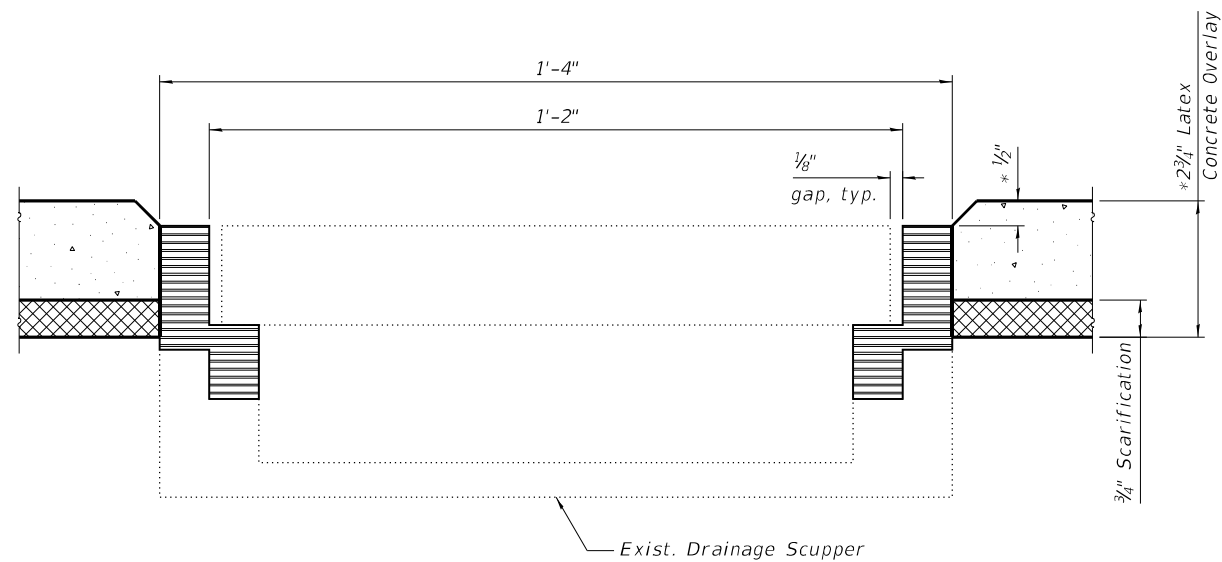
DECK SLAB REPAIR PLAN
STRUCTURE NO. 016-1159

SHEET 4 OF 19 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	22
CONTRACT NO. 62T44				
ILLINOIS		FED. AID PROJECT		

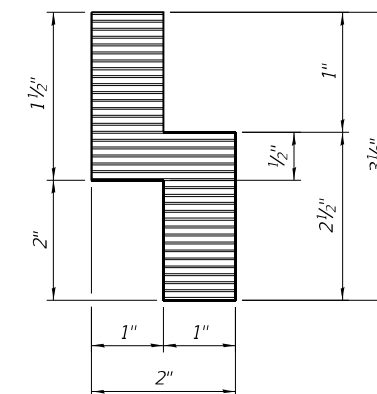


PLAN - SCUPPER ADJUSTMENT RING



SECTION A-A

* prior to 1/4" grinding



SCUPPER ADJUSTMENT RING

NOTES:

1. All structural steel shall be AASHTO M270 Grade 36. The scupper adjustment ring shall be galvanized.
2. The contractor shall ensure that no damage is done to existing grates to be reused.
3. Shop plans for proposed scupper adjustment rings shall be submitted for approval prior to fabrication.
4. Cost of all labor and materials necessary to remove existing grates, clean existing scuppers, fabricate and install scupper adjustment rings, and reinstall grates is included in the cost per unit Each for Drainage Scuppers to be Adjusted.
5. See Sheet 4 of 19 for Scupper locations.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Drainage Scuppers to be Adjusted	Each	14

MODEL: Default
FILE NAME: E:\1910-36(SN 016-1159)\Final Design\CADD_Sheets\0161159-462744-005-AdjScupperDtls.dgn

LE LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

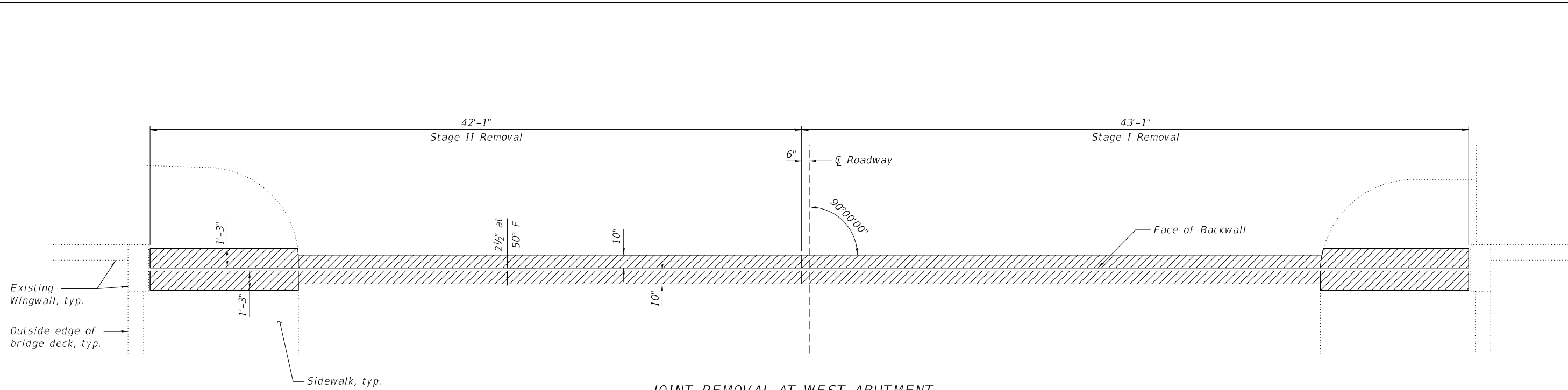
USER NAME =	DESIGNED - MTH	REVISED -
	CHECKED - CZ	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE = 10/12/2023	CHECKED - CZ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

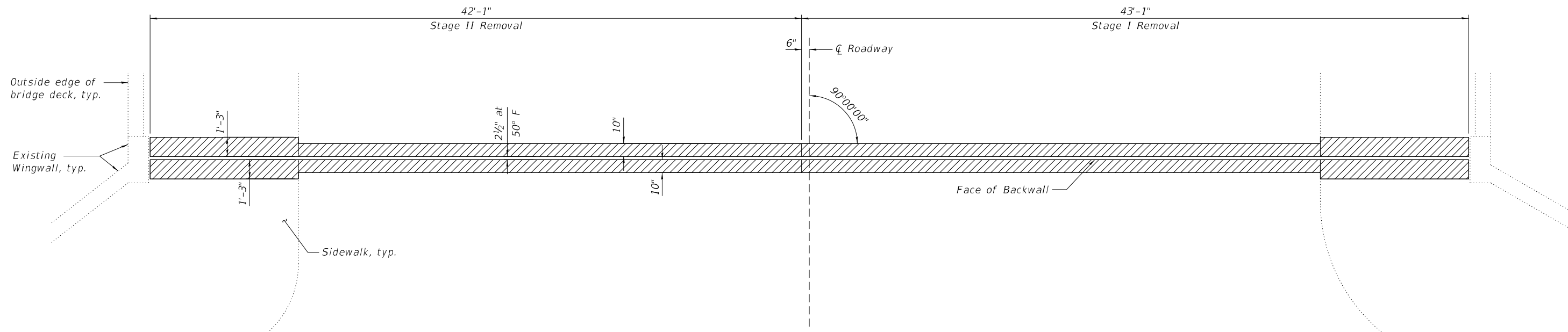
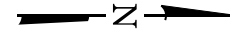
ADJUSTING EXISTING SCUPPER DETAILS
STRUCTURE NO. 016-1159

SHEET 5 OF 19 SHEETS

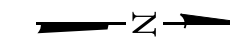
FAU. RTE. 1465	SECTION FAU 1465 22 BJ	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 23
ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 62T44				



JOINT REMOVAL AT WEST ABUTMENT



JOINT REMOVAL AT EAST ABUTMENT



Notes:
 Hatched areas indicate limits of
 Concrete Removal.
 See Sheet 8 of 19 for Sections.

MODEL: Default
 FILE NAME: E:\1910-36\SN 016-1159\Final Design\CADD_Sheets\0161159-42744-006-miRep\Diets1.dgn

(Sheet 1 of 3)

LE LIN ENGINEERING, LTD.
 Consulting Engineers
 Springfield, Illinois

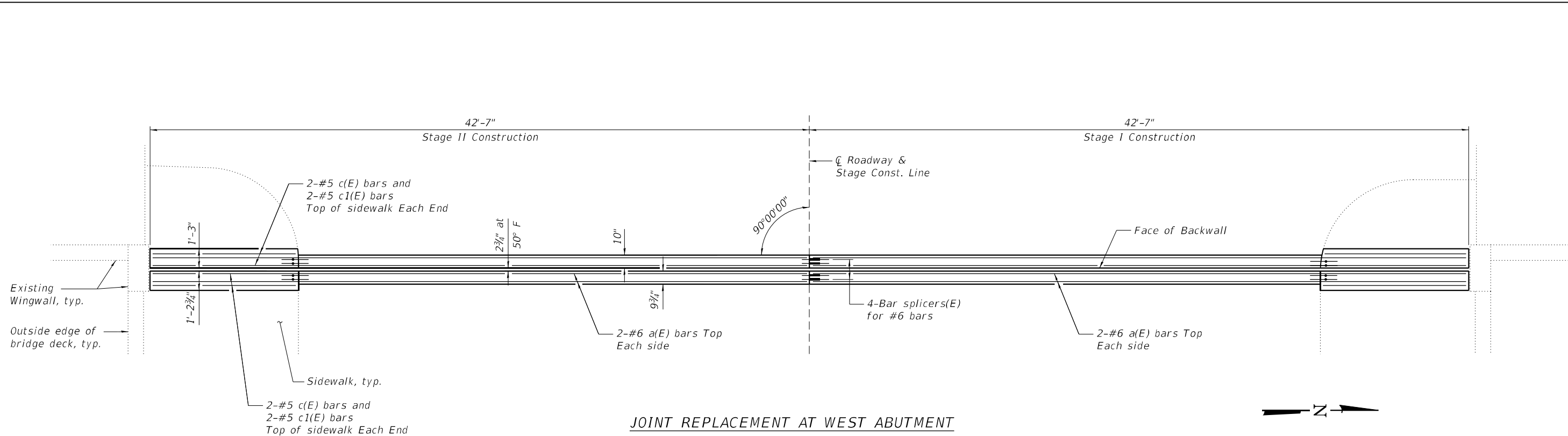
USER NAME =	DESIGNED - MTH	REVISED -
	CHECKED - CZ	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE = 10/12/2023	CHECKED - CZ	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

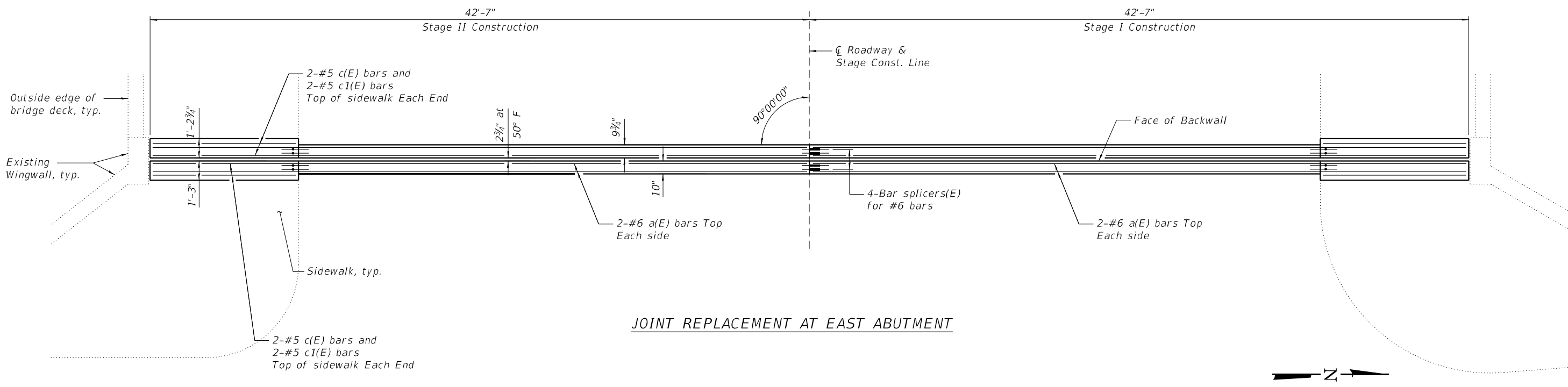
**JOINT REPLACEMENT DETAILS
 STRUCTURE NO. 016-1159**

SHEET 6 OF 19 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	24
CONTRACT NO. 62T44				
ILLINOIS FED. AID PROJECT				



JOINT REPLACEMENT AT WEST ABUTMENT



JOINT REPLACEMENT AT EAST ABUTMENT

(Sheet 2 of 3)

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT REPLACEMENT DETAILS
STRUCTURE NO. 016-1159**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	25
CONTRACT NO. 62T44				

SHEET 7 OF 19 SHEETS

ILLINOIS FED. AID PROJECT

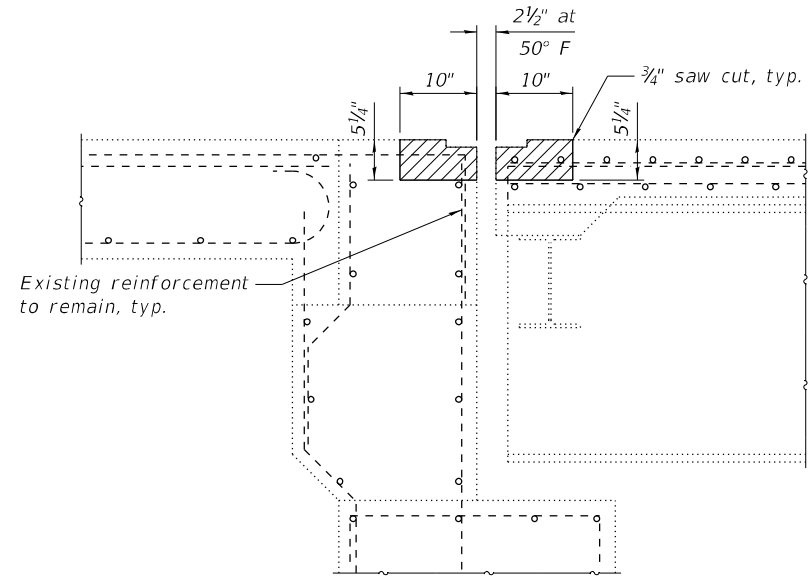
MODEL: Default
FILE NAME: E:\1910-36(SN 016-1159)\Final Design\CADD_Sheets\0161159-62T44-007-in.Rep\Details2.dgn

LE LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

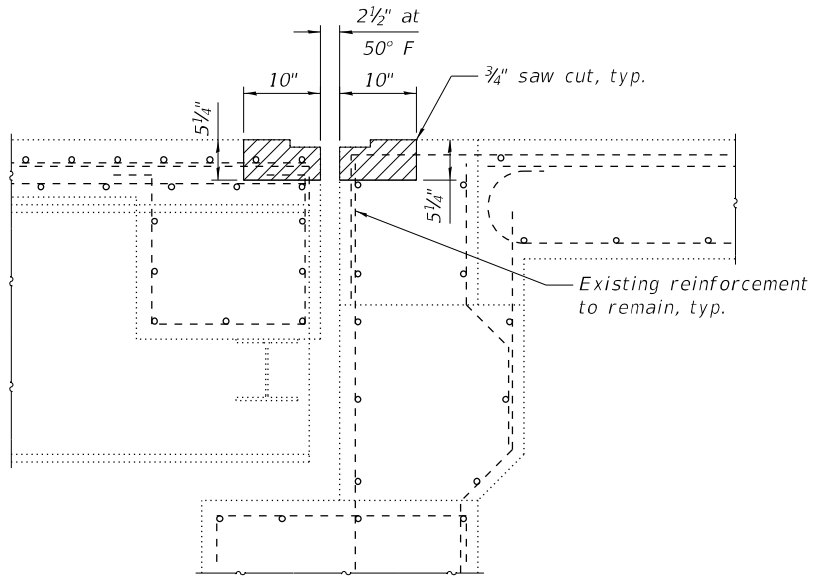
USER NAME =	DESIGNED - MTH	REVISED -
PLOT SCALE =	CHECKED - CZ	REVISED -
PLOT DATE = 10/12/2023	DRAWN - AJF	REVISED -
	CHECKED - CZ	REVISED -

10/12/2023 7:59:00 AM

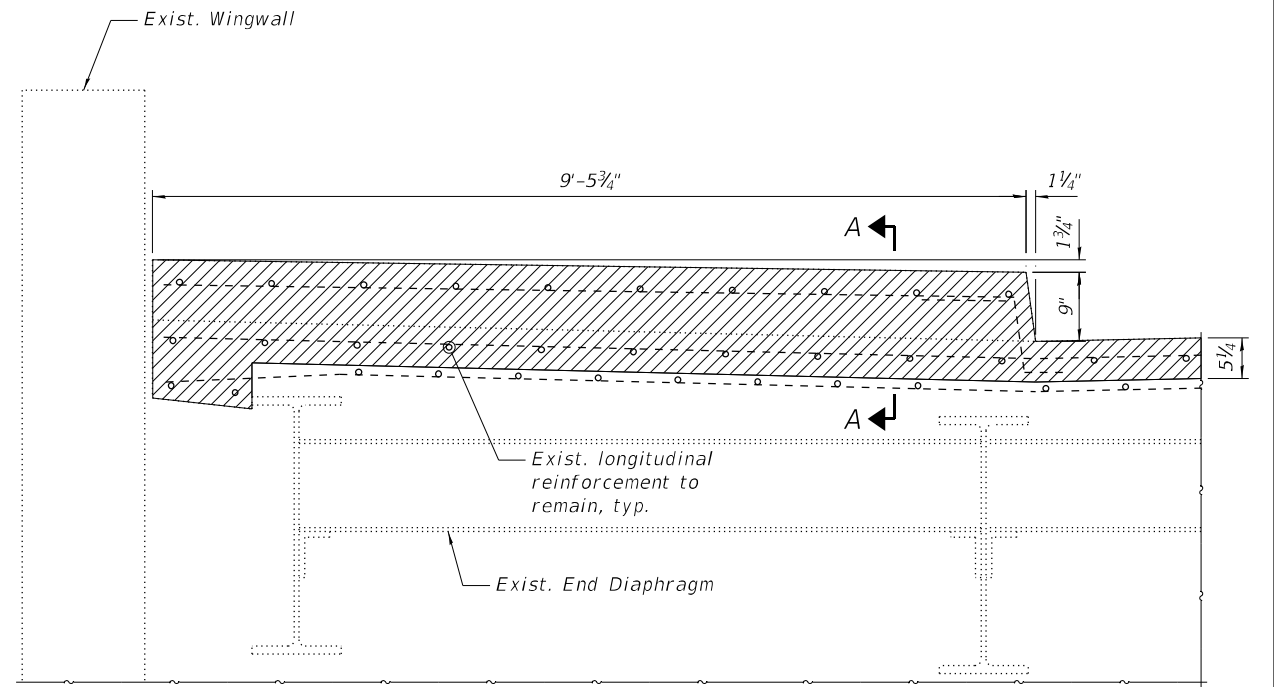
MODEL: Default
 FILE NAME: E:\1910-3615N 016-1159\Final Design\CADD_Sheets\0161159-02744-008-riRep\Detail3.dgn



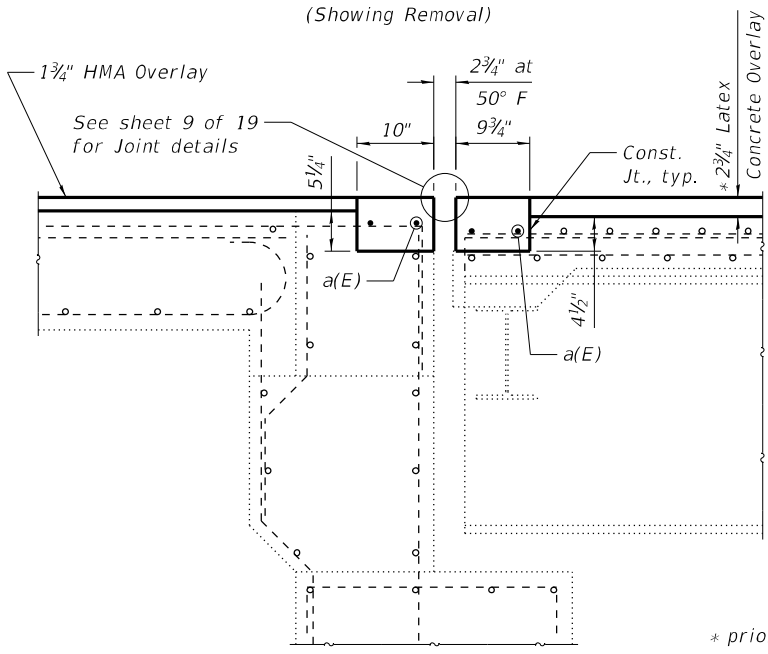
SECTION THRU JOINT AT W. ABUTMENT
 (Showing Removal)



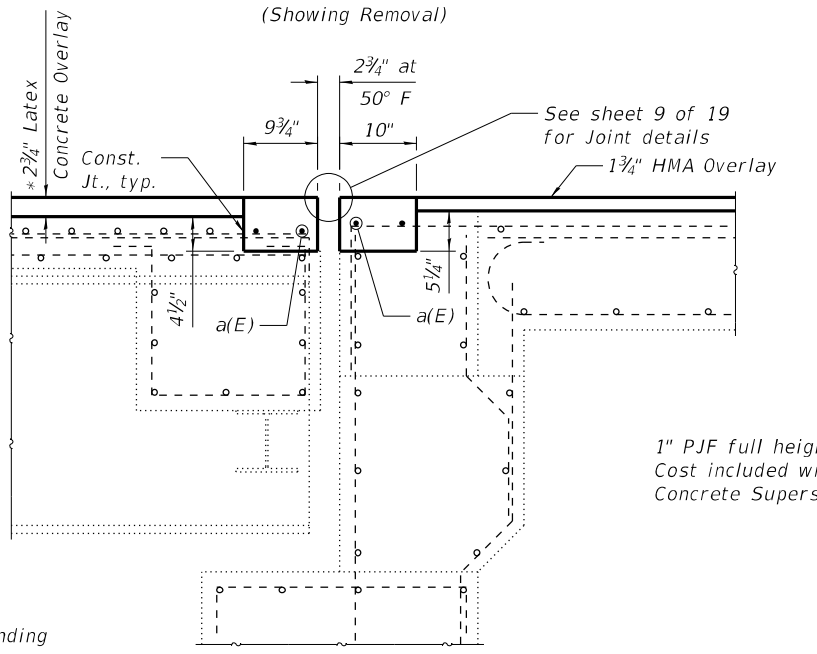
SECTION THRU JOINT AT E. ABUTMENT
 (Showing Removal)



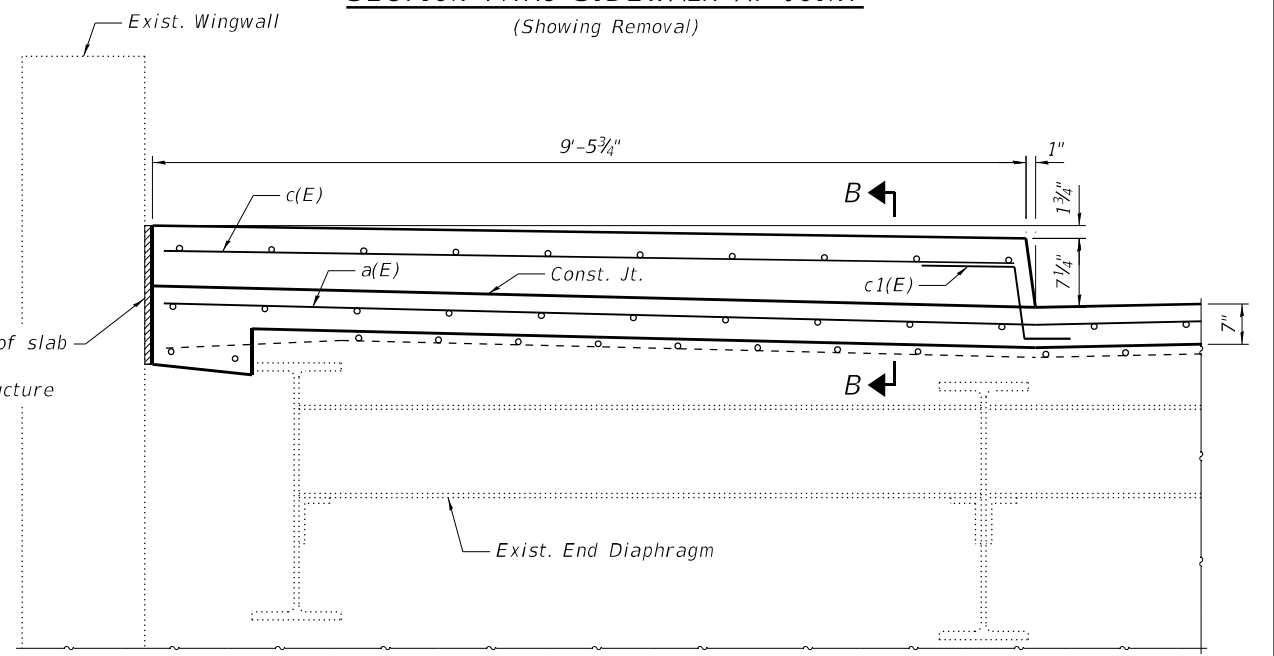
SECTION THRU SIDEWALK AT JOINT
 (Showing Removal)



SECTION THRU JOINT AT W. ABUTMENT
 (Showing Proposed)



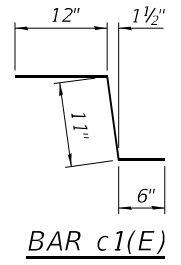
SECTION THRU JOINT AT E. ABUTMENT
 (Showing Proposed)



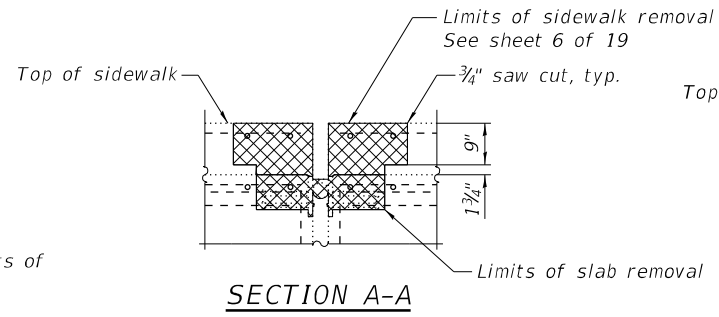
SECTION THRU SIDEWALK AT JOINT
 (Showing Proposed)

BILL OF MATERIAL

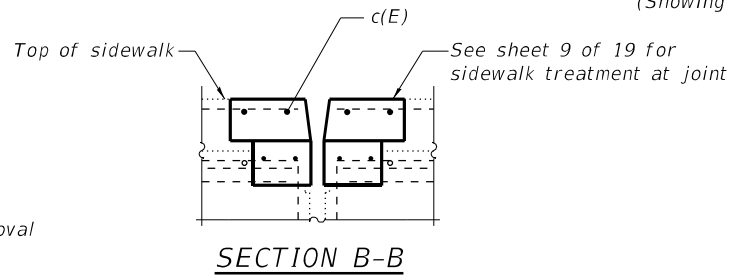
Bar	No.	Size	Length	Shape
a(E)	8	#6	42'-3"	—
c(E)	8	#5	9'-2"	—
c1(E)	8	#5	2'-5"	—
Concrete Removal		Cu. Yd.	7.5	
Concrete Superstructure		Cu. Yd.	8.5	
Reinforcement Bars, Epoxy Coated		Pound	610	



Note:
 Hatched areas indicate limits of Concrete Removal.



SECTION A-A



SECTION B-B

(Sheet 3 of 3)



USER NAME =	DESIGNED - MTH	REVISED -
PLOT SCALE =	CHECKED - CZ	REVISED -
PLOT DATE = 10/23/2023	DRAWN - AJF	REVISED -
	CHECKED - CZ	REVISED -

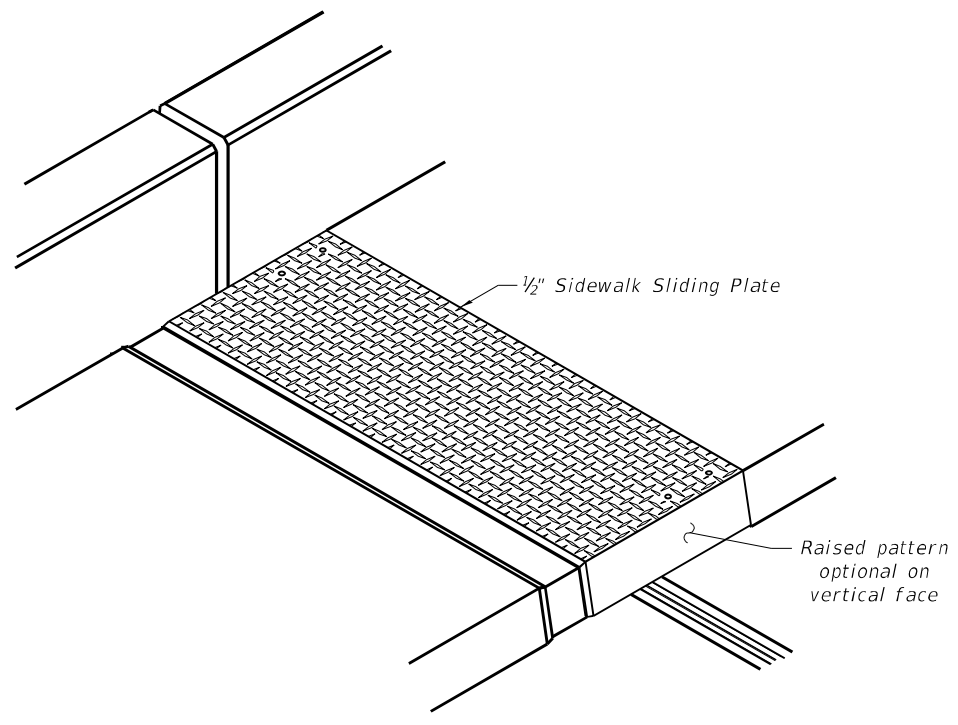
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT DETAILS
STRUCTURE NO. 016-1159

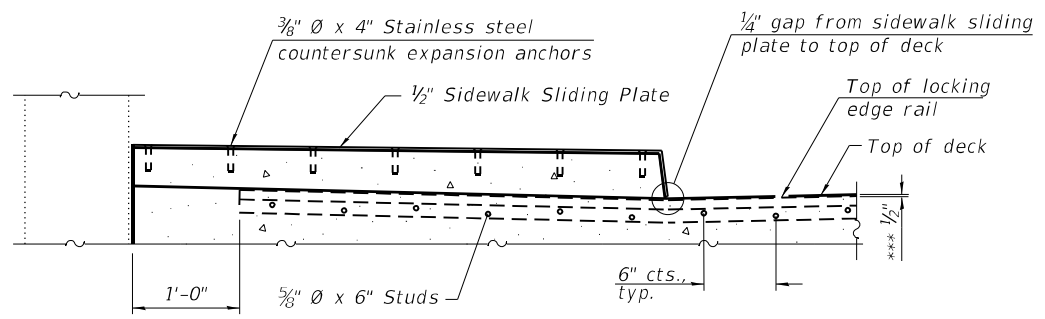
SHEET 8 OF 19 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	26
CONTRACT NO. 62T44				

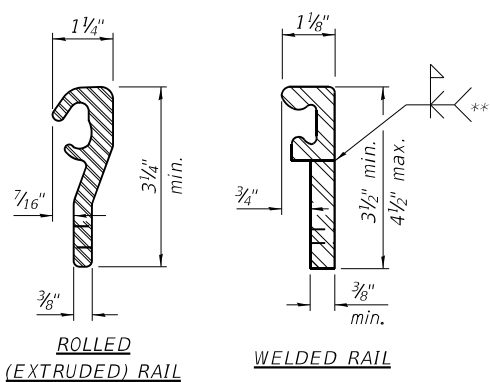
ILLINOIS FED. AID PROJECT



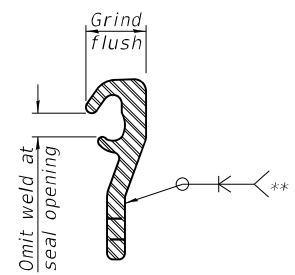
TRIMETRIC VIEW



SECTION AT RAISED SIDEWALK

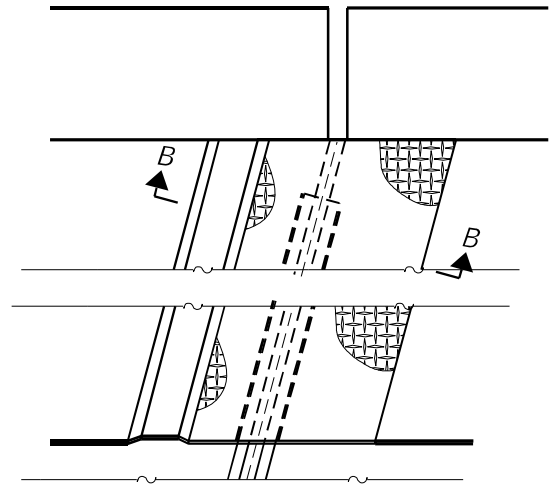


ROLLED (EXTRUDED) RAIL WELDED RAIL



LOCKING EDGE RAIL SPLICE

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



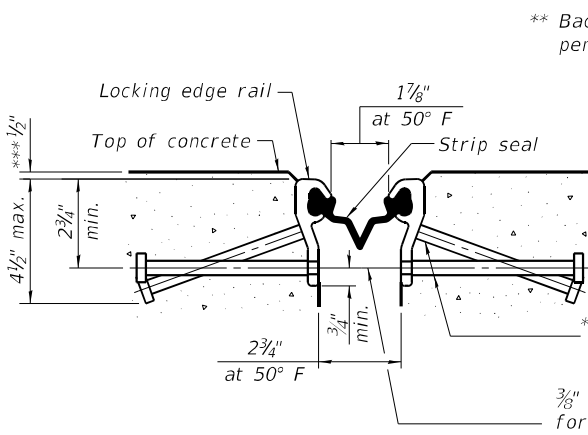
PLAN AT RAISED SIDEWALK

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

*** prior to grinding

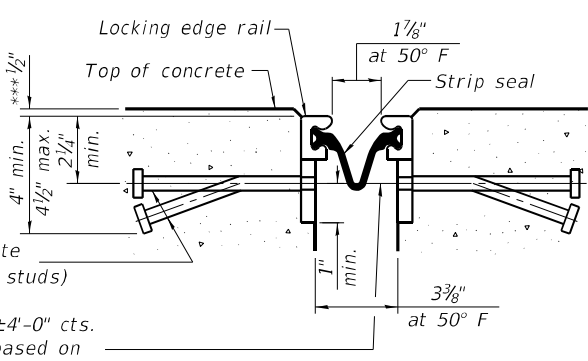
BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	167



SHOWING ROLLED RAIL JOINT

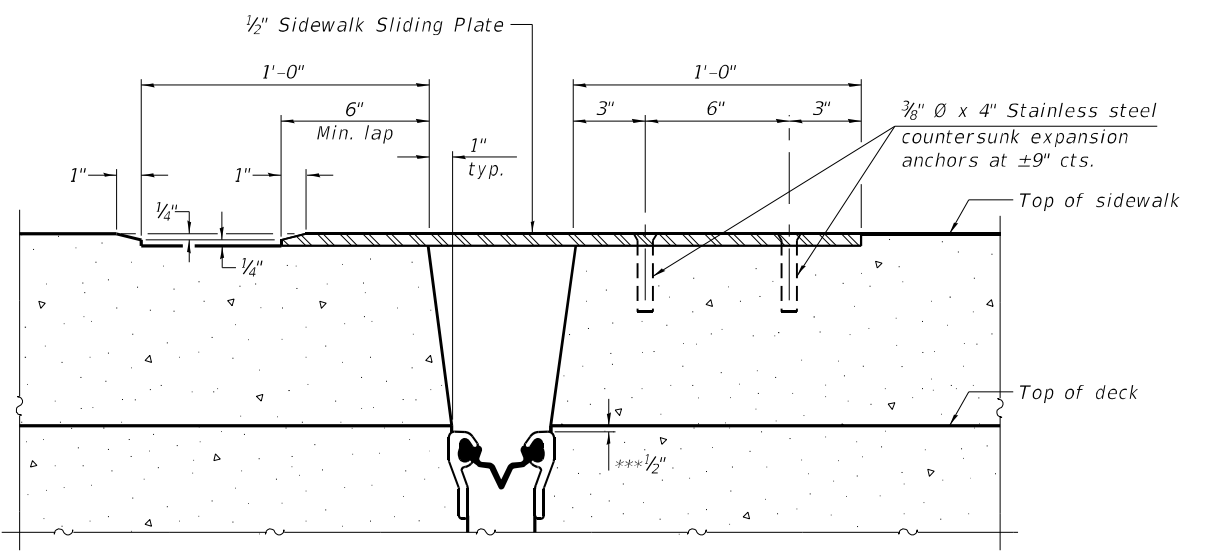
* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 3/8" Ø threaded rods in 1/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



SHOWING WELDED RAIL JOINT

SECTION A-A

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



SECTION B-B

MODEL: Default FILE NAME: EX\1910-36\SN 016-1159\Final Design\CADD\Sheets\016-1159-62T44-009-Pre\JointDetail.dgn



USER NAME =	DESIGNED - MTH	REVISED -
PLOT SCALE =	CHECKED - CZ	REVISED -
PLOT DATE = 10/23/2023	DRAWN - AJF	REVISED -
	CHECKED - CZ	REVISED -

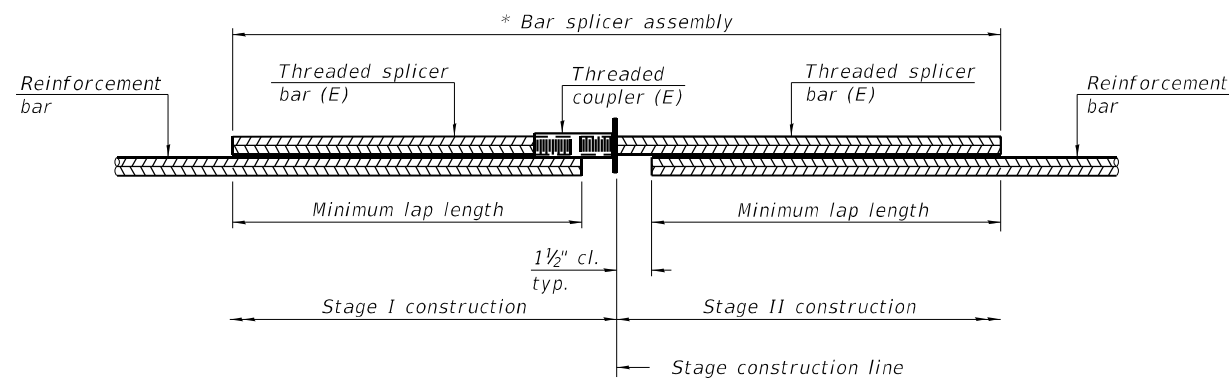
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 016-1159

SHEET 9 OF 19 SHEETS

FAU-RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	27
CONTRACT NO. 62T44				

ILLINOIS FED. AID PROJECT



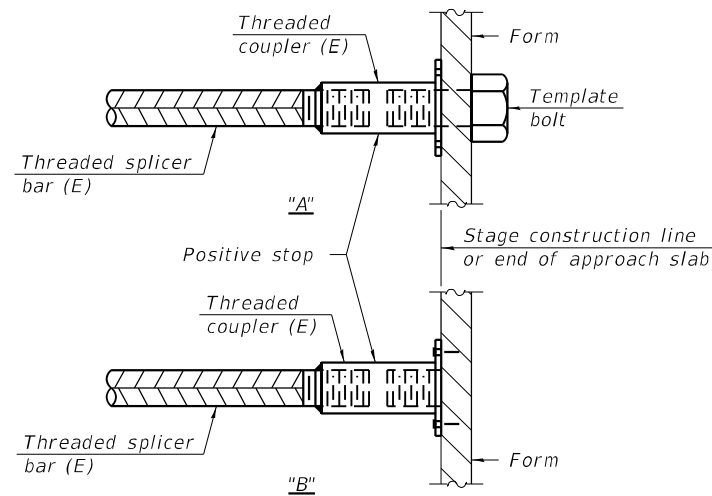
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

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
Backwall	#6	4	3'-7"
Deck	#6	4	3'-7"

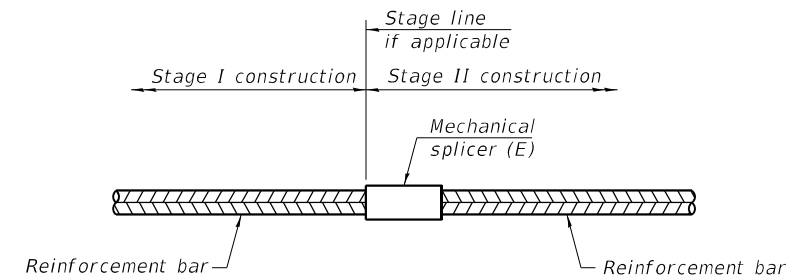


INSTALLATION AND SETTING METHODS

"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

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: Default
FILE NAME: E:\1910-36\SN 016-1159\Final Design\CADD_Sheets\0161159-42744-010-BarSplicrD1s.dgn

BSD-1

2-1-2023



USER NAME =	DESIGNED - MTH	REVISED -
	CHECKED - CZ	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE = 10/12/2023	CHECKED - CZ	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY DETAILS
STRUCTURE NO. 016-1159**

SHEET 10 OF 19 SHEETS

FAU-RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	28
CONTRACT NO. 62T44				

ILLINOIS FED. AID PROJECT

MODEL: Default
 FILE NAME: E:\1910-36(SN 016-1159)\Final Design\CADD_Sheets\0161159-02744-011-SubRepairs1.dgn



WEST ABUTMENT ELEVATION
 (Looking West)

LEGEND

- Structural Repair of Concrete
 (Depth greater than 5")
- sf Square Feet

Note:
 Repair of the existing abutment shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth greater than 5")	Sq. Ft.	8

(Sheet 1 of 8)



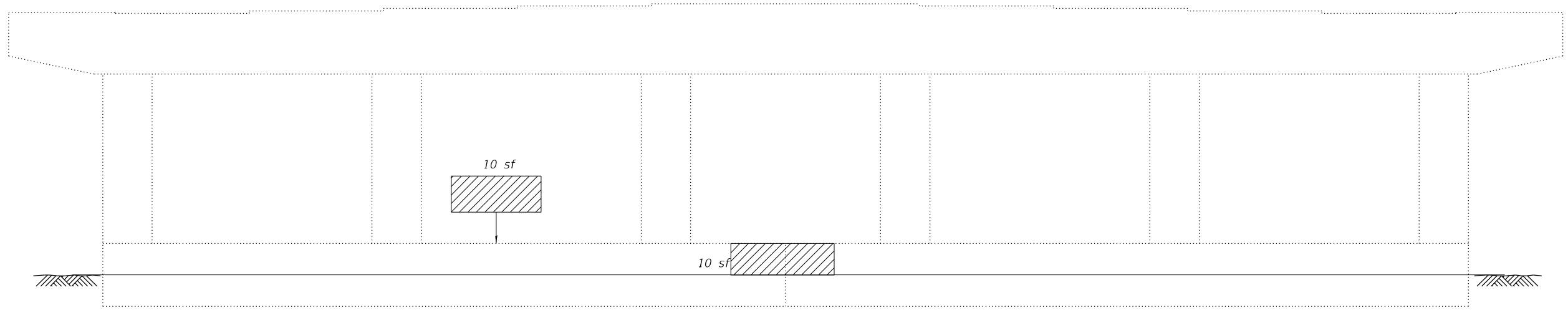
USER NAME =	DESIGNED - MTH	REVISED -
	CHECKED - CZ	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE = 10/12/2023	CHECKED - CZ	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

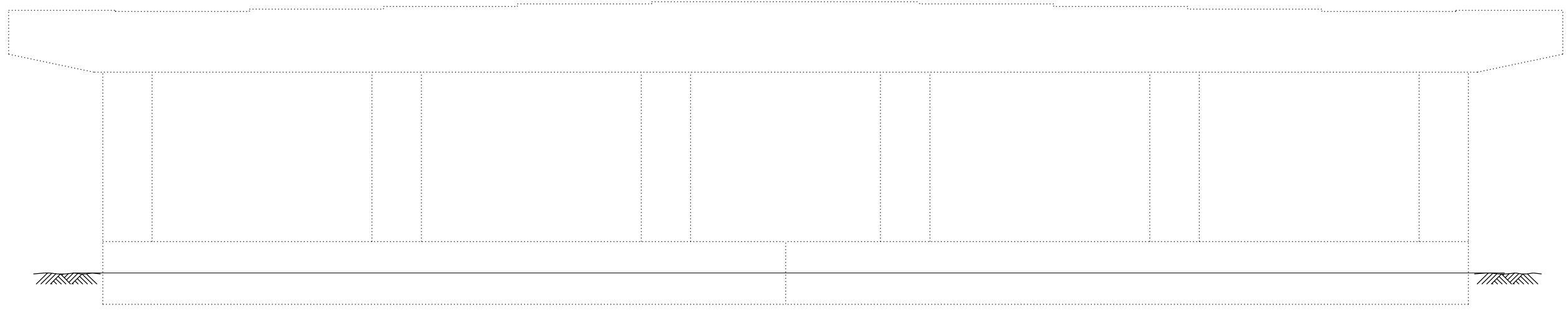
**SUBSTRUCTURE REPAIRS
 STRUCTURE NO. 016-1159**

SHEET 11 OF 19 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	29
CONTRACT NO. 62T44				
ILLINOIS		FED. AID PROJECT		



PIER 1 ELEVATION
(West Face)



PIER 1 ELEVATION
(East Face)

LEGEND

- Structural Repair of Concrete
(Depth equal to or less than 5")
- sf Square Feet

Note:
Repair of the existing pier shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	20

(Sheet 2 of 8)

MODEL: Default
FILE NAME: E:\1910-36(SN 016-1159)Final Design\CADD\CADD_Sheets\0161159-02T44-012-SubRepairs2.dgn



USER NAME =	DESIGNED - MTH	REVISED -
	CHECKED - CZ	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE = 10/12/2023	CHECKED - CZ	REVISED -

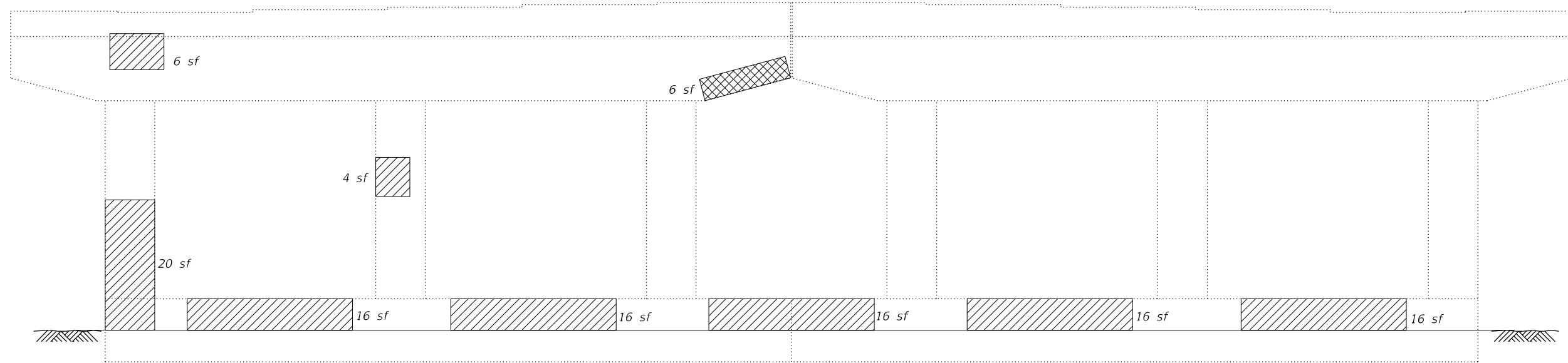
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIRS
STRUCTURE NO. 016-1159

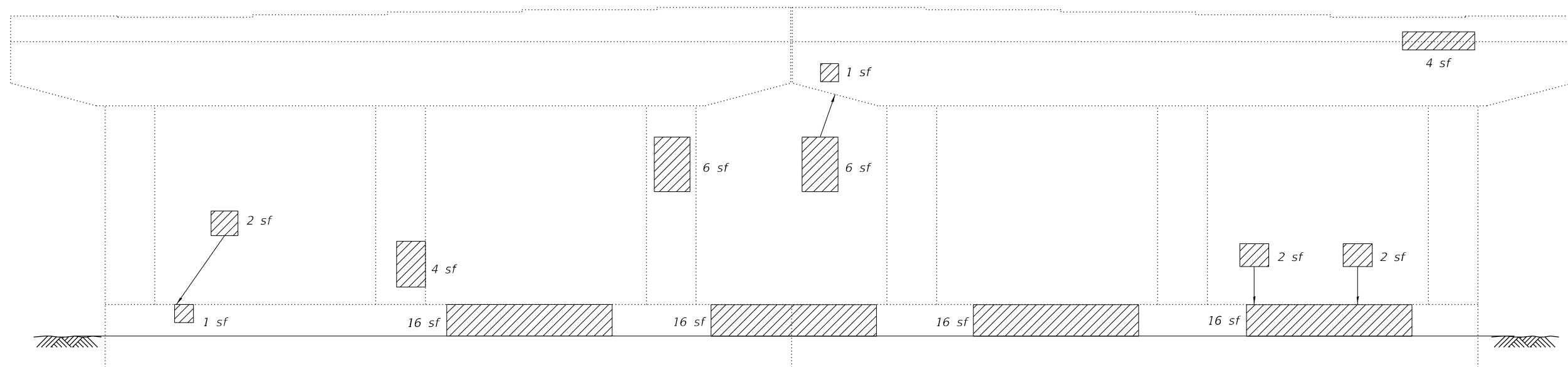
SHEET 12 OF 19 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	30
CONTRACT NO. 62T44				

ILLINOIS FED. AID PROJECT



PIER 2 ELEVATION
(West Face)



PIER 2 ELEVATION
(East Face)

LEGEND

- Structural Repair of Concrete (Depth equal to or less than 5")
- Structural Repair of Concrete (Depth greater than 5")
- sf Square Feet

Note:
Repair of the existing pier shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	202
Structural Repair of Concrete (Depth greater than 5")	Sq. Ft.	6

(Sheet 3 of 8)

MODEL: Default
FILE NAME: E:\1910-36\SN 016-1159\Final Design\CADD_Sheets\0161159-02744-013-SubRepairs3.dgn



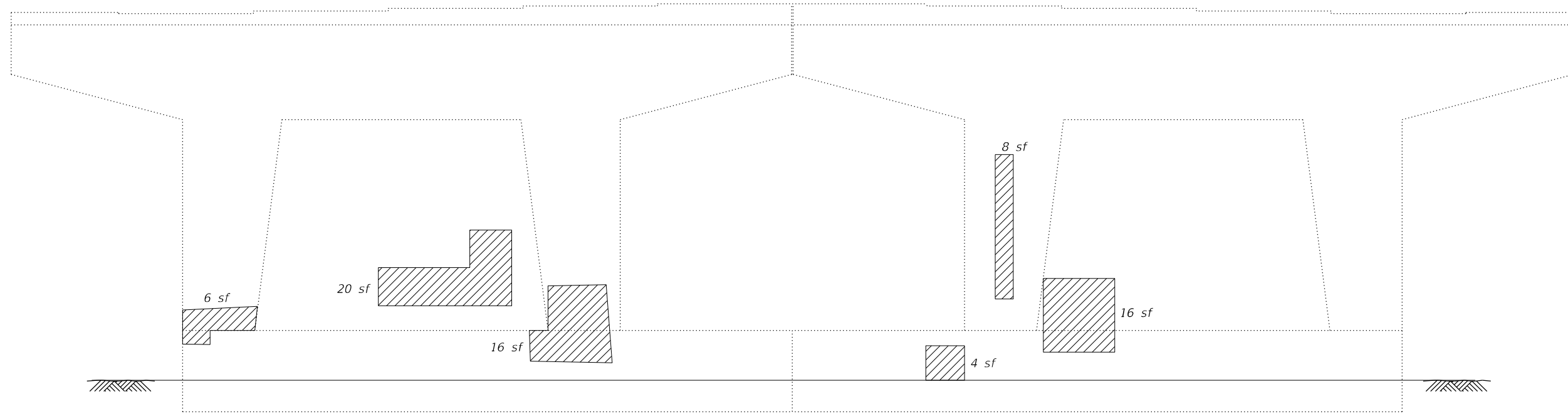
USER NAME =	DESIGNED - MTH	REVISED -
PLOT SCALE =	CHECKED - CZ	REVISED -
PLOT DATE = 10/12/2023	DRAWN - AJF	REVISED -
	CHECKED - CZ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

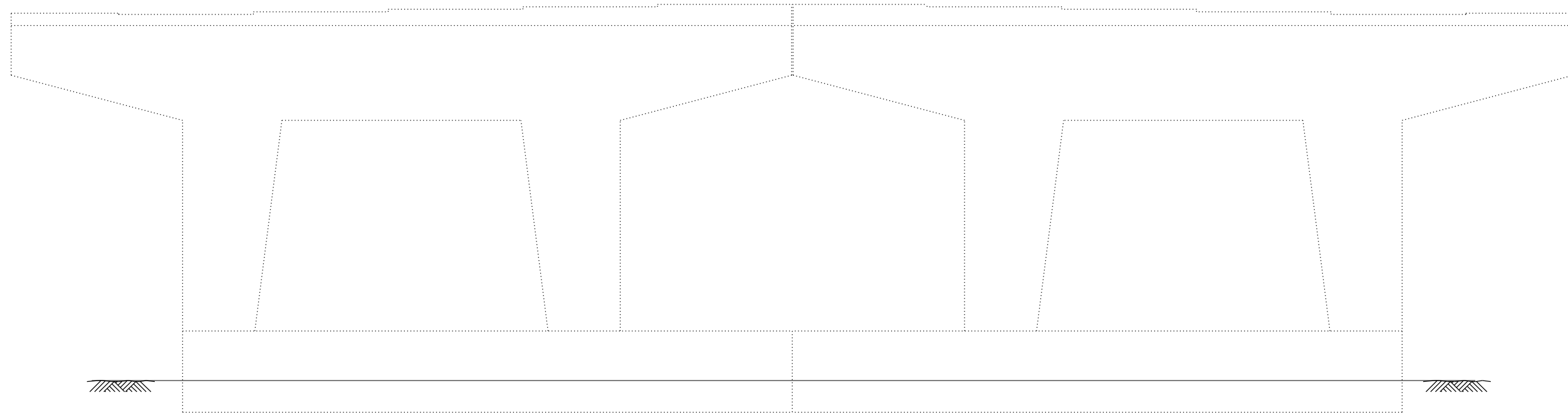
SUBSTRUCTURE REPAIRS
STRUCTURE NO. 016-1159

SHEET 13 OF 19 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	31
CONTRACT NO. 62T44				
		ILLINOIS	FED. AID PROJECT	



PIER 3 ELEVATION
(West Face)



PIER 3 ELEVATION
(East Face)

LEGEND

- Structural Repair of Concrete
(Depth equal to or less than 5")
- sf Square Feet

Note:
Repair of the existing pier shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	70

(Sheet 4 of 8)

MODEL: Default
FILE NAME: E:\1910-36(SN 016-1159)Final Design\CADD_Sheets\0161159-042T44-014-SubRepairs4.dgn

LE LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

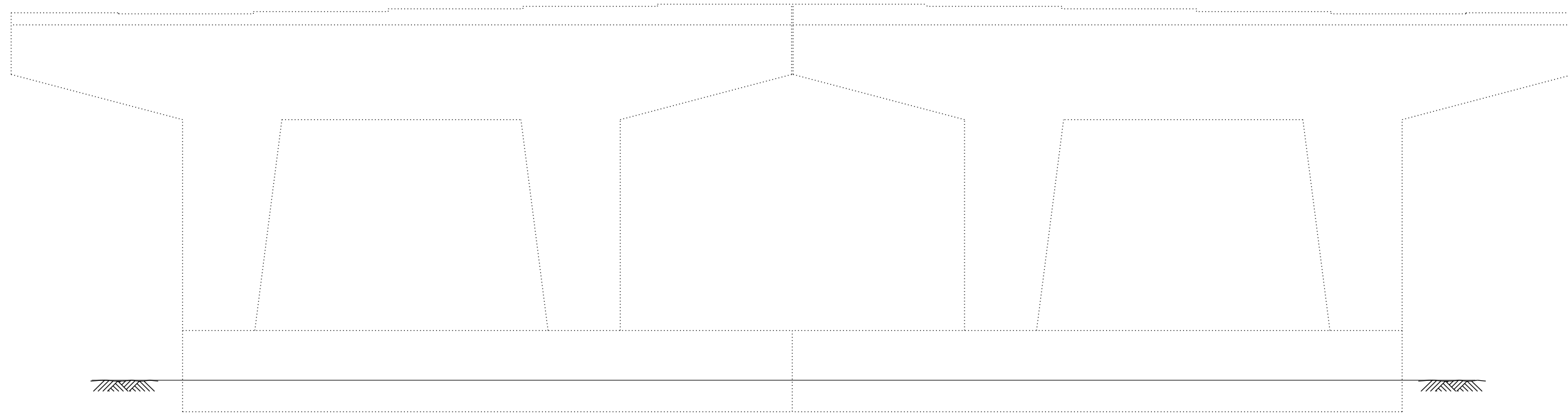
USER NAME =	DESIGNED - MTH	REVISED -
PLOT SCALE =	CHECKED - CZ	REVISED -
PLOT DATE = 10/12/2023	DRAWN - AJF	REVISED -
	CHECKED - CZ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

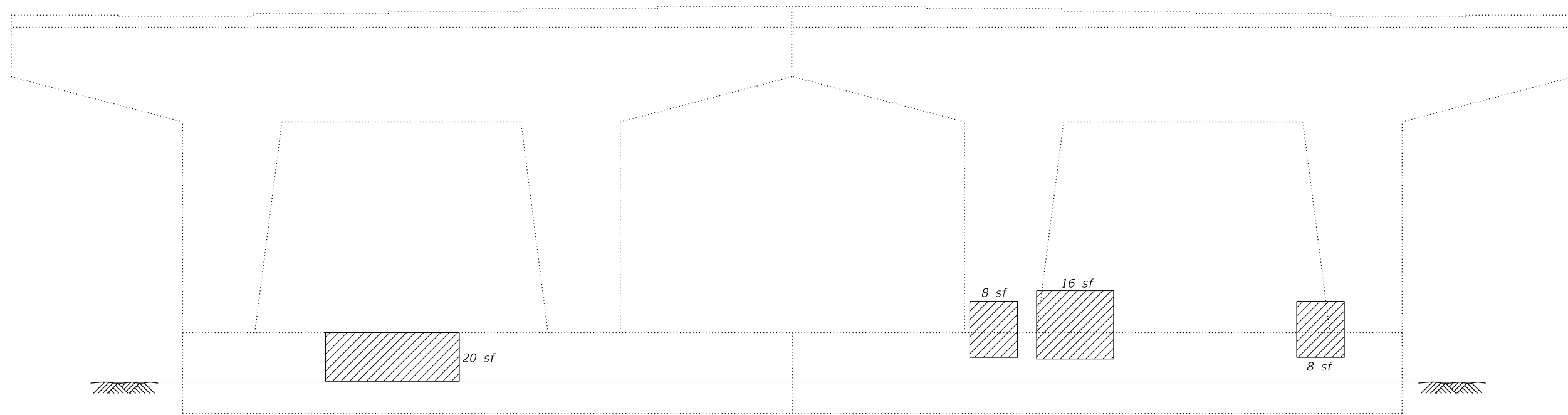
SUBSTRUCTURE REPAIRS
STRUCTURE NO. 016-1159

SHEET 14 OF 19 SHEETS

FAU. RTE. 1465	SECTION FAU 1465 22 BJ	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 32
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T44	



PIER 4 ELEVATION
(West Face)



PIER 4 ELEVATION
(East Face)

LEGEND

- Structural Repair of Concrete
(Depth equal to or less than 5")
- sf Square Feet

Note:
Repair of the existing pier shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	52

(Sheet 5 of 8)

MODEL: Default
FILE NAME: E:\1910-36(SN 016-1159)\Final Design\CADD_Sheets\0161159-02T44-015-SubRepairs5.dgn

LE LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

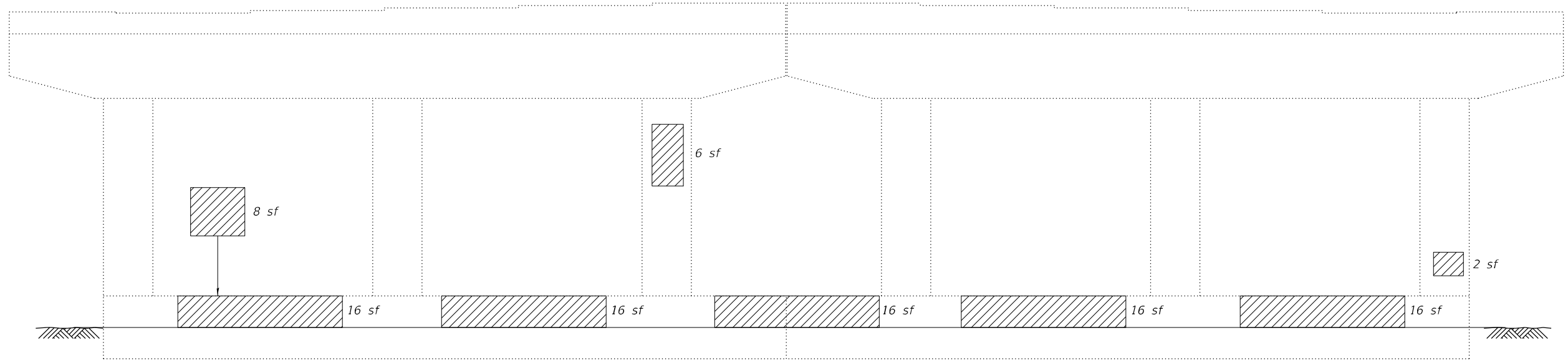
USER NAME =	DESIGNED - MTH	REVISED -
PLOT SCALE =	CHECKED - CZ	REVISED -
PLOT DATE = 10/12/2023	DRAWN - AJF	REVISED -
	CHECKED - CZ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

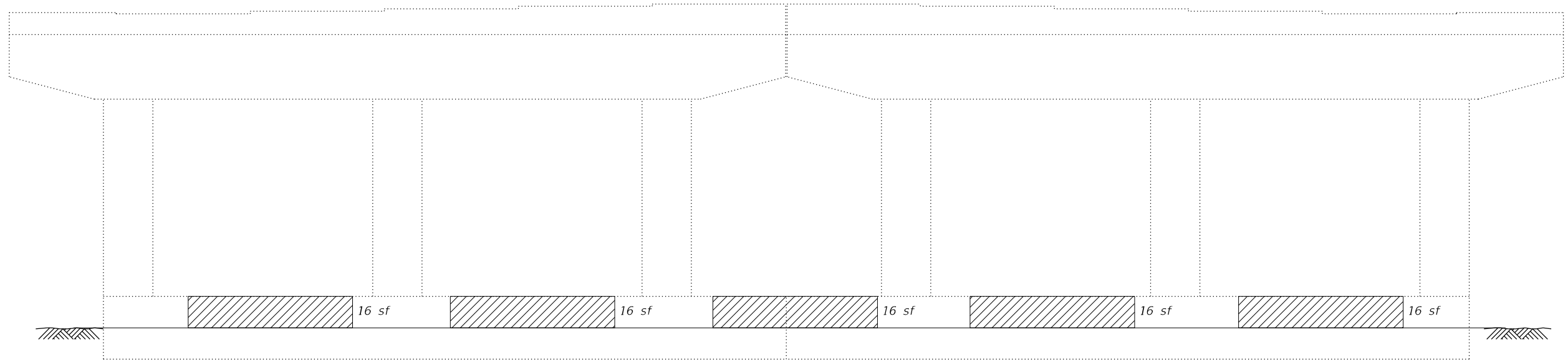
SUBSTRUCTURE REPAIRS
STRUCTURE NO. 016-1159

SHEET 15 OF 19 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	33
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T44	



PIER 5 ELEVATION
(West Face)



PIER 5 ELEVATION
(East Face)

LEGEND

- Structural Repair of Concrete
(Depth equal to or less than 5")
- sf Square Feet

Note:
Repair of the existing pier shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	176

MODEL: Default
 FILE NAME: E:\1910-36(SN 016-1159)Final Design\CADD_Sheets\0161159-62T44-016-SubRepairs6.dgn



USER NAME =	DESIGNED - MTH	REVISED -
	CHECKED - CZ	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE = 10/12/2023	CHECKED - CZ	REVISED -

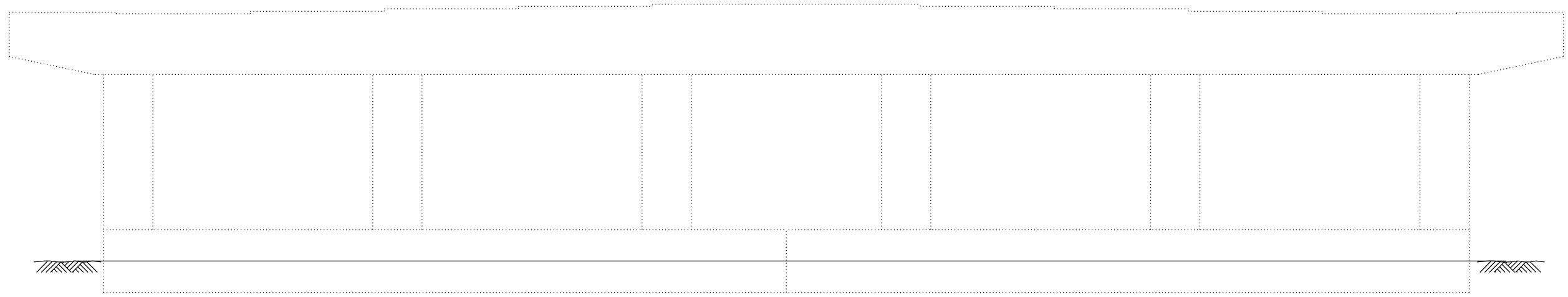
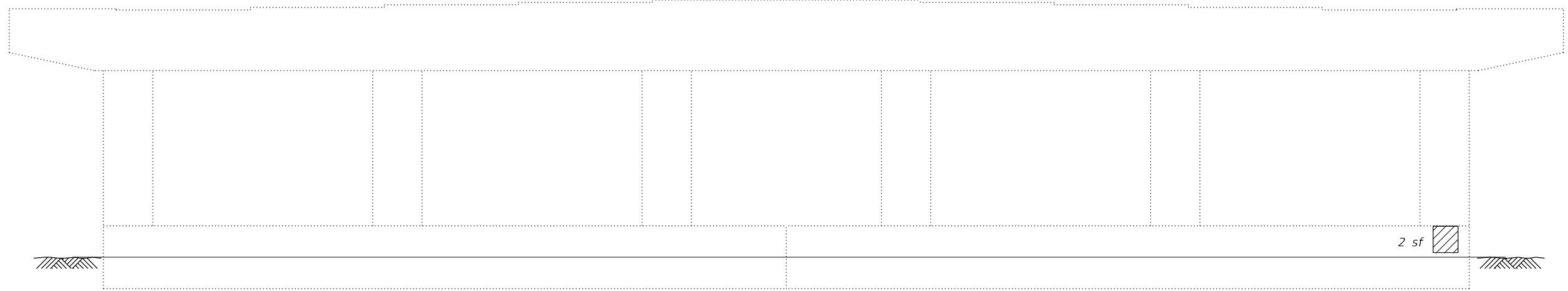
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIRS
STRUCTURE NO. 016-1159

(Sheet 6 of 8)

SHEET 16 OF 19 SHEETS

FAU. RTE. 1465	SECTION FAU 1465 22 BJ	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 34
CONTRACT NO. 62T44				
		ILLINOIS	FED. AID PROJECT	



LEGEND

- Structural Repair of Concrete
(Depth equal to or less than 5")
- sf Square Feet

Note:
Repair of the existing pier shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	2

MODEL: Default
FILE NAME: E:\1910-36\SN 016-1159\Final Design\CADD\CADD_Sheets\0161159-042744-017-SubRepairs7.dgn



USER NAME =	DESIGNED - MTH	REVISED -
	CHECKED - CZ	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE = 10/12/2023	CHECKED - CZ	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

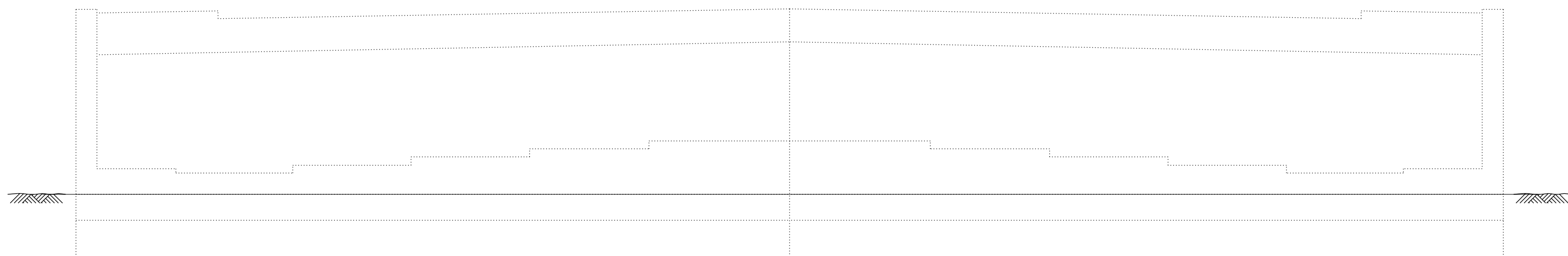
**SUBSTRUCTURE REPAIRS
STRUCTURE NO. 016-1159**

SHEET 17 OF 19 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	35
CONTRACT NO. 62T44				
ILLINOIS		FED. AID PROJECT		

10 ft of chain link fence to be replaced

8 ft of chain link fence to be replaced



EAST ABUTMENT
(Looking East)

Note:
Repair of the existing abutment shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.

BILL OF MATERIAL

Item	Unit	Total
Chain Link Fence, 4'	Foot	18

(Sheet 8 of 8)

MODEL: Default
FILE NAME: E:\1910-36\SN 016-1159\Final Design\CADD\CADD_Sheets\016-1159-02744-018-SubRepairs8.dgn

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

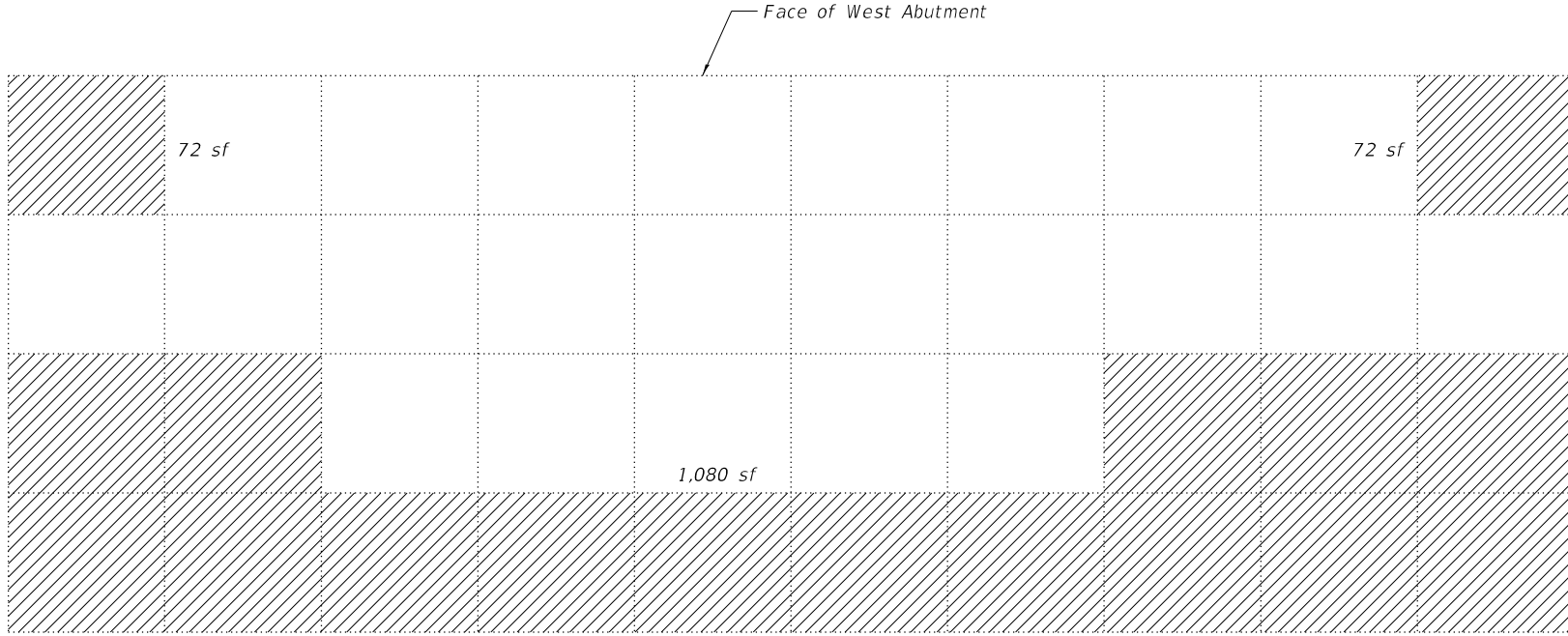
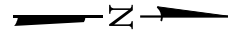
USER NAME =	DESIGNED - MTH	REVISED -
	CHECKED - CZ	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE = 10/12/2023	CHECKED - CZ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

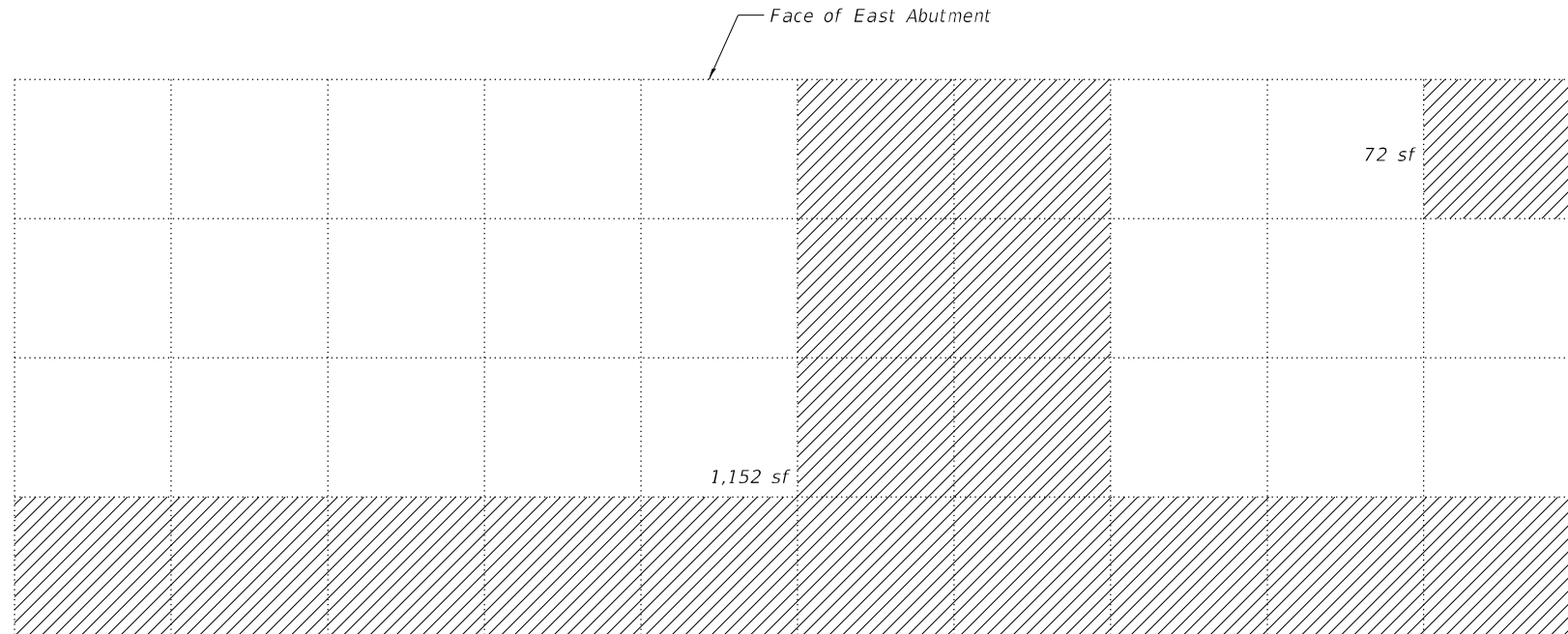
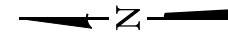
SUBSTRUCTURE REPAIRS
STRUCTURE NO. 016-1159

SHEET 18 OF 19 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	36
CONTRACT NO. 62T44				
ILLINOIS		FED. AID PROJECT		



WEST SLOPEWALL PLAN



EAST SLOPEWALL PLAN

Notes:

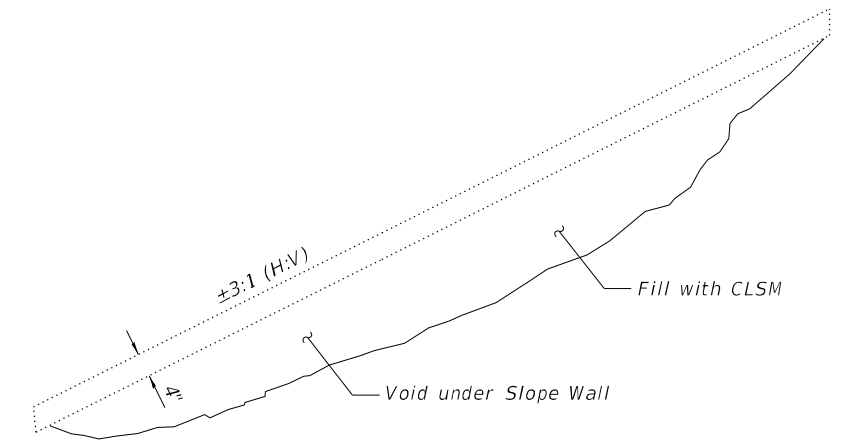
Hatched areas indicate assumed limits of Slope Wall Removal and Slope Wall 4 Inch. Actual limits to be determined by the Engineer.
 All silt, sand and other debris in gutter at bottom of slope wall to be removed. Cost included with Slope Wall Removal.
 Slope Wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft. Lap with existing wire fabric a distance of two cross bars.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Slope Wall Removal	Sq. Yd.	272
Slope Wall 4 Inch	Sq. Yd.	272
Controlled Low-Strength Material	Cu. Yd.	90.7

LEGEND

- Slope Wall Removal and Replacement
- sf Square Feet



SECTION THRU SLOPE WALL

Note:

Contractor's methods shall ensure that CLSM stays contained within the void space.

MODEL: Default
 FILE NAME: E:\1910-36\SN 016-1159\Final Design\CADD_Sheets\016-1159-42744-019-SlopeWallDetails.dgn



USER NAME =	DESIGNED - MTH	REVISED -
PLOT SCALE =	CHECKED - CZ	REVISED -
PLOT DATE = 10/12/2023	DRAWN - AJF	REVISED -
	CHECKED - CZ	REVISED -

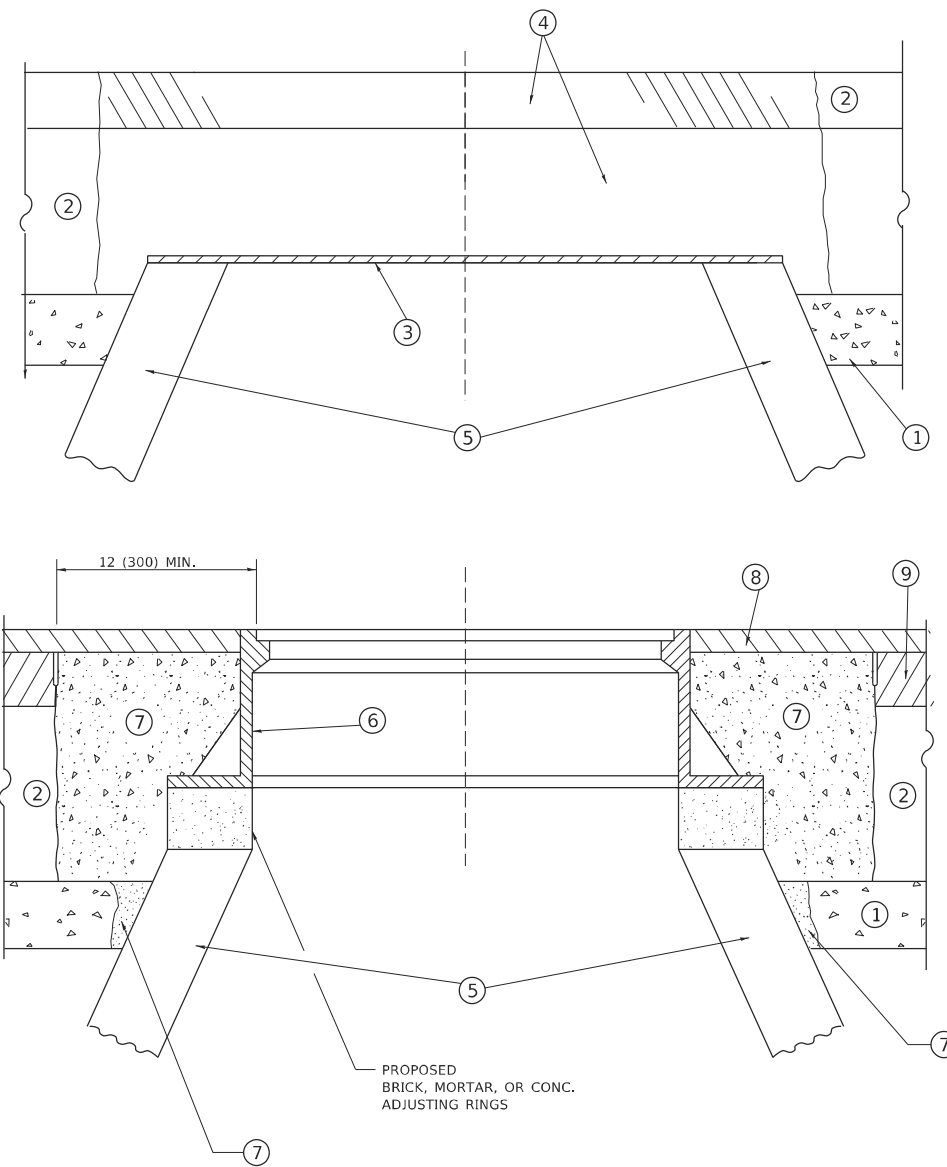
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SLOPE WALL REPAIR DETAILS
 STRUCTURE NO. 016-1159**

SHEET 19 OF 19 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	37
CONTRACT NO. 62T44				

ILLINOIS FED. AID PROJECT



**DETAILS FOR FRAMES AND LIDS ADJUSTMENT
WITH MILLING**

NOTES

1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

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

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES

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

BASIS OF PAYMENT

1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

MODEL: Default
FILE NAME: p:\projects\paw_bentley.com\p\INDOT\Documents\INDOT_offices\District: I\Projects\Dir\5182732\CA\DD\Dist\CAD\p\sheet13008.dgn

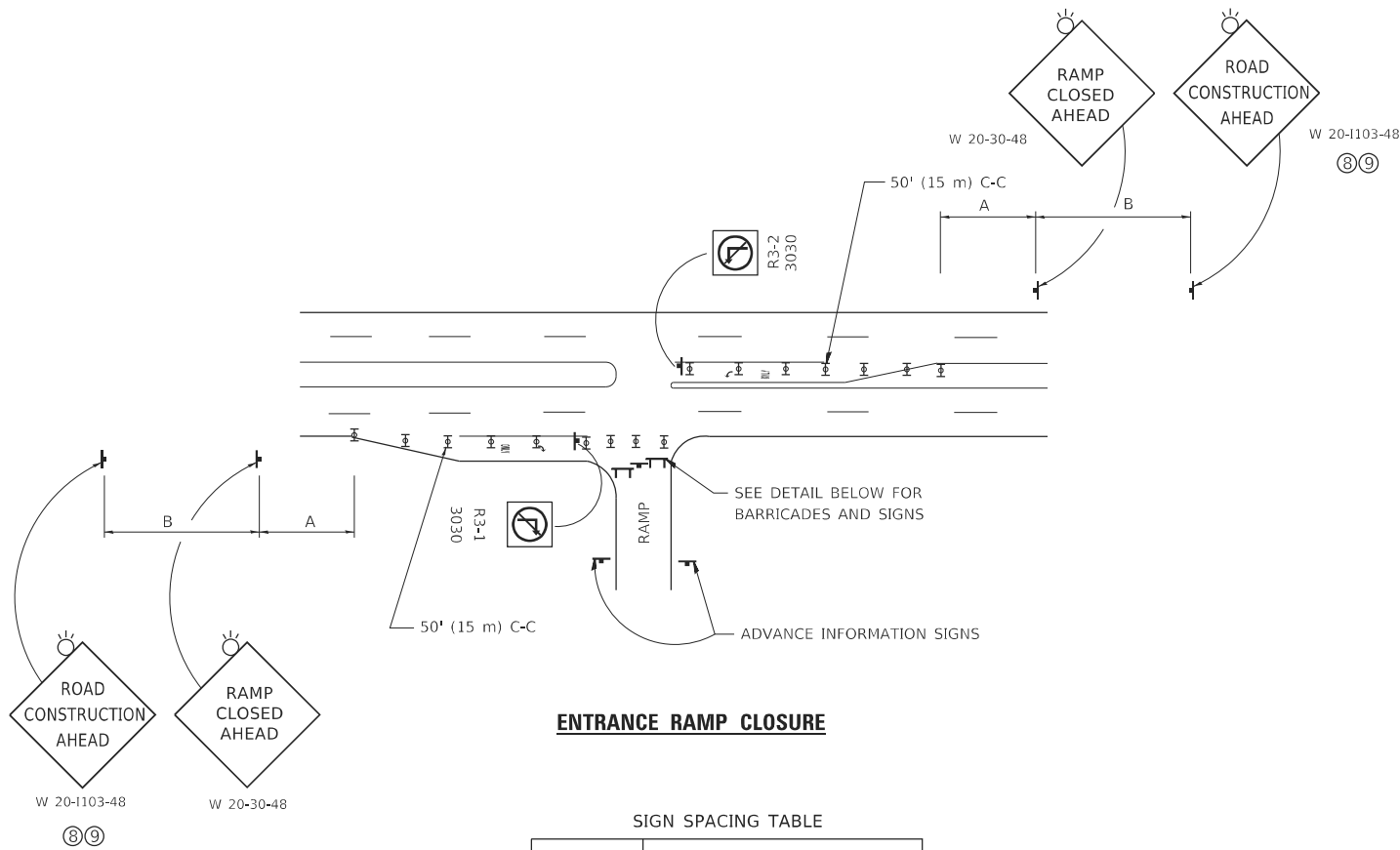
USER NAME = Lawrence,DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07
	DRAWN -	REVISED - R. BORO 03-09-11
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - R. BORO 12-06-11
PLOT DATE = 11/18/2022	DATE - 10-25-94	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	38
BD600-03 (BD-08)			CONTRACT NO. 62T44	
ILLINOIS FED. AID PROJECT				

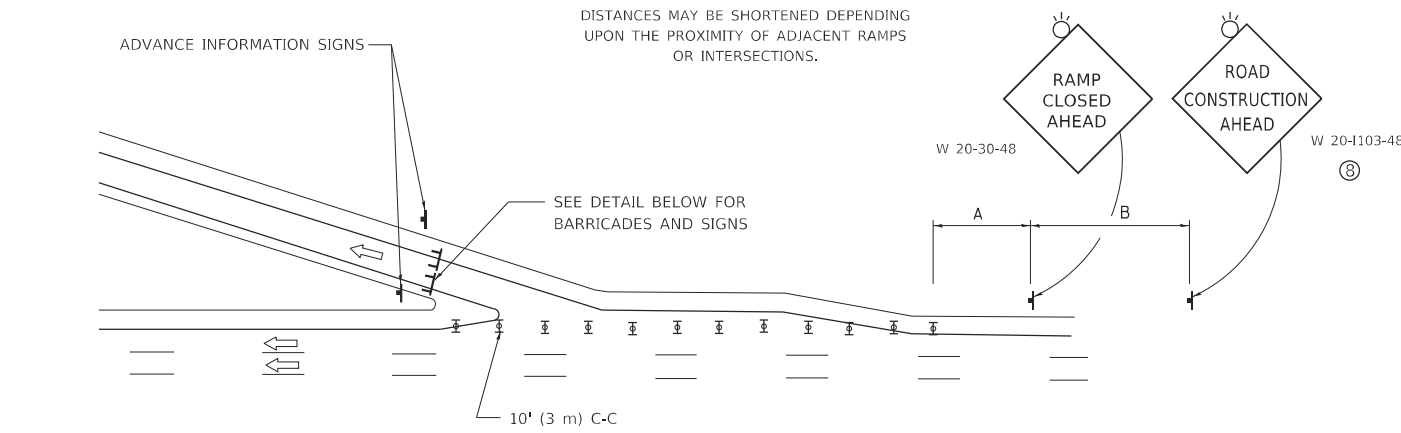


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

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

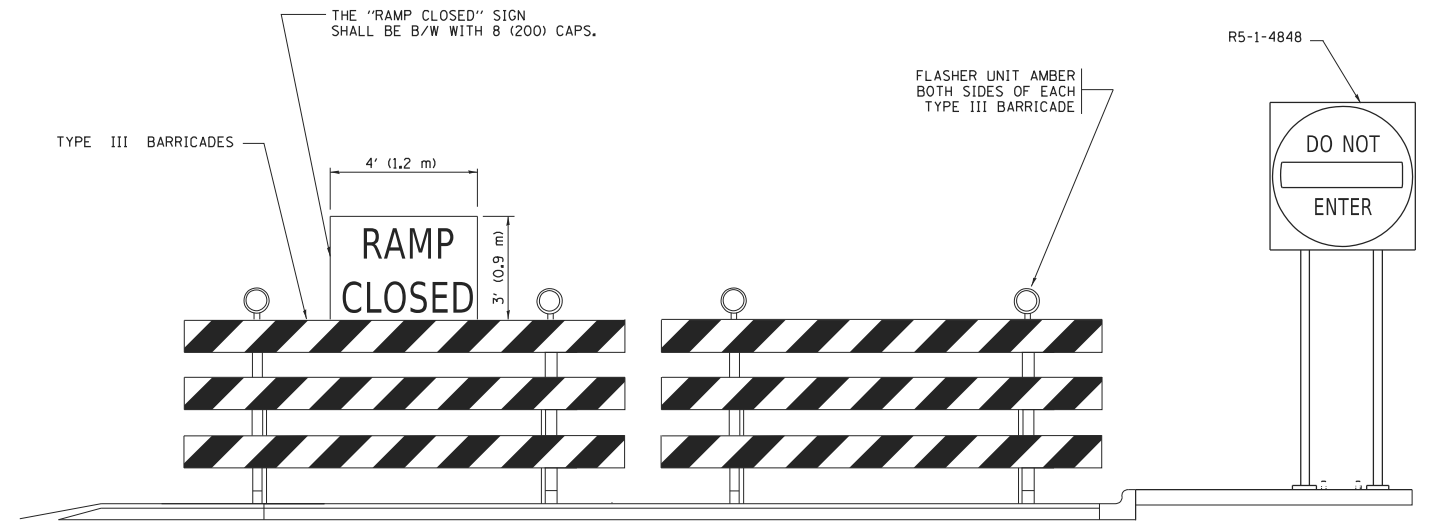
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

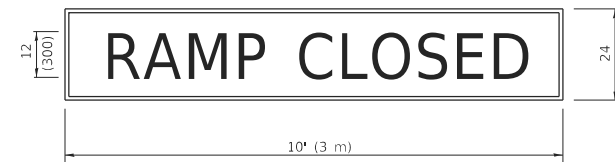
SYMBOLS

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



DETAIL FOR REQUIRED BARRICADES & SIGNS

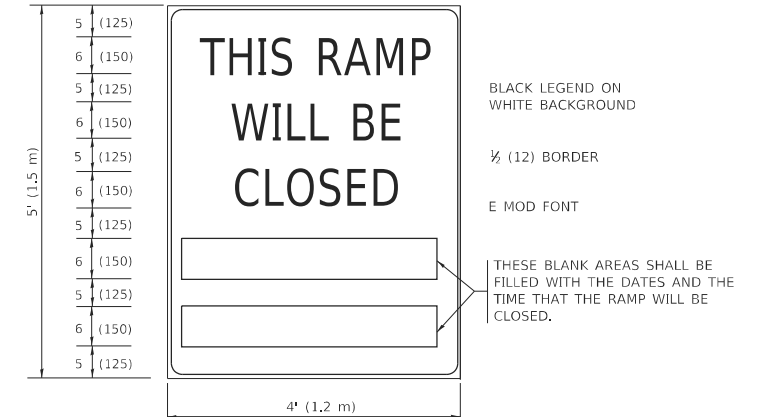
RAMP CLOSURE ADVANCE WARNING SIGN



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



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND 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.

MODEL: Default
FILE NAME: p:\1108\BIDD\ITEG_ILLINOIS\proj\PWIDOT\Documents\DOT_Offices\District 1\Projects\DIH\5422\24\CAD\Drawings\CAD\Sheet\1408.dwg

USER NAME = footemj	DESIGNED - D.W.S.	REVISED - S.P.B._01-07
	DRAWN -	REVISED - S.P.B._12-09
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - M.D._06-13
PLOT DATE = 3/4/2019	DATE - 02-83	REVISED - M.D._01-18

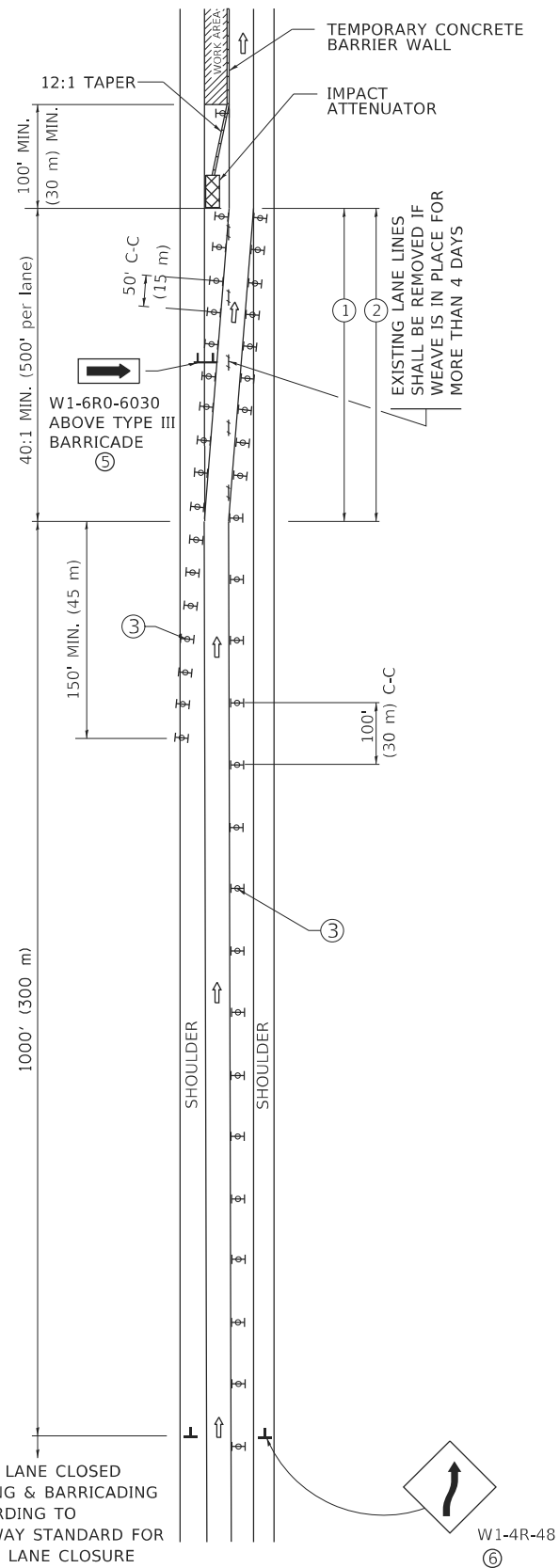
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE_AND_EXIT_RAMP
CLOSURE_DETAILS**

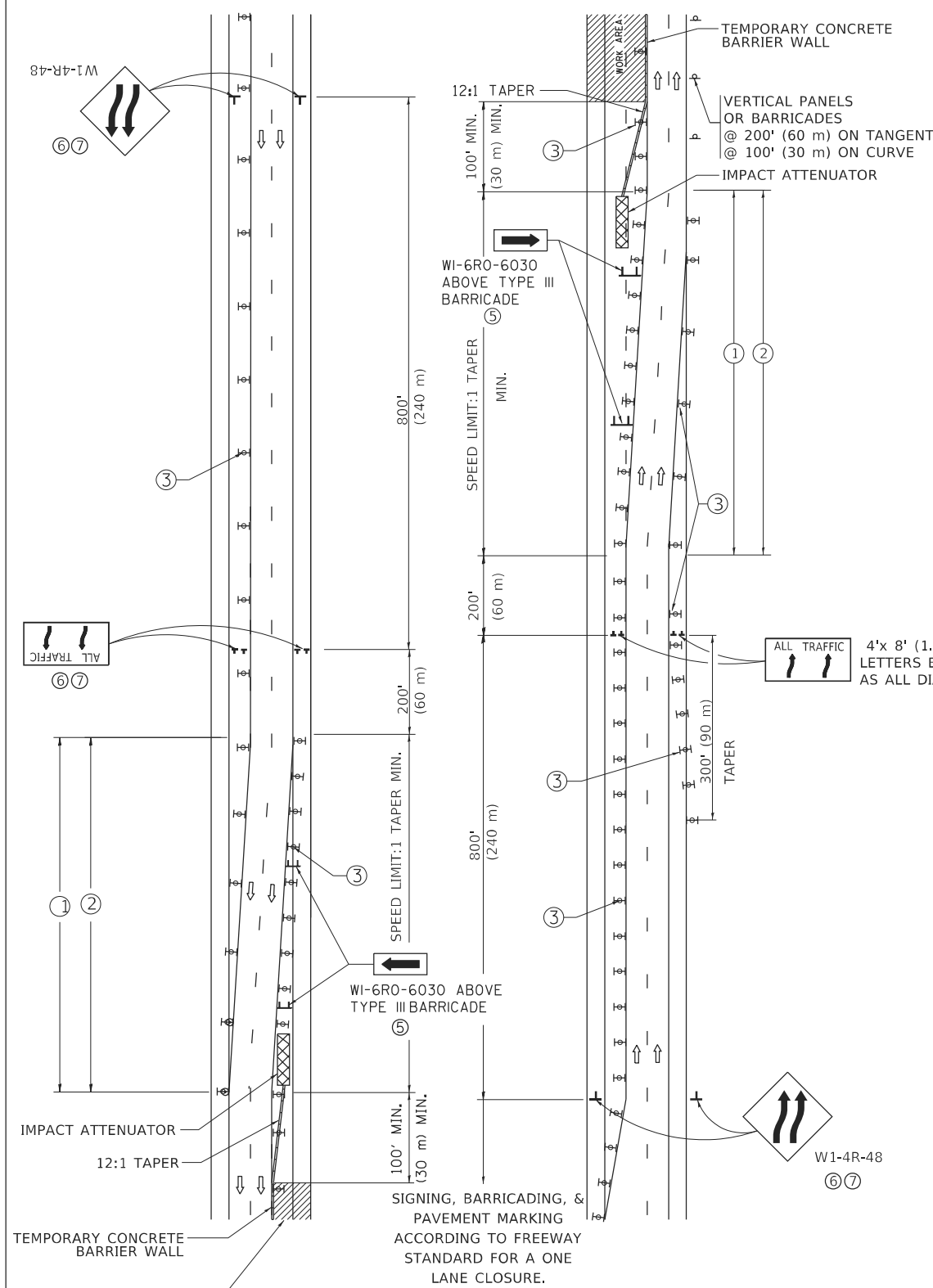
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	39
TC-08			CONTRACT NO. 62T44	
ILLINOIS		FED. AID PROJECT		

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES:

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS, THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

MODEL: D:\default... FILE NAME: p:\u0008\EBID\NTEG... PROJECTS\DOT Documents\DOT Offices\District 1\Projects\DOT\22-234\CD\Draws\CAD\Sheet\TC09.dgn

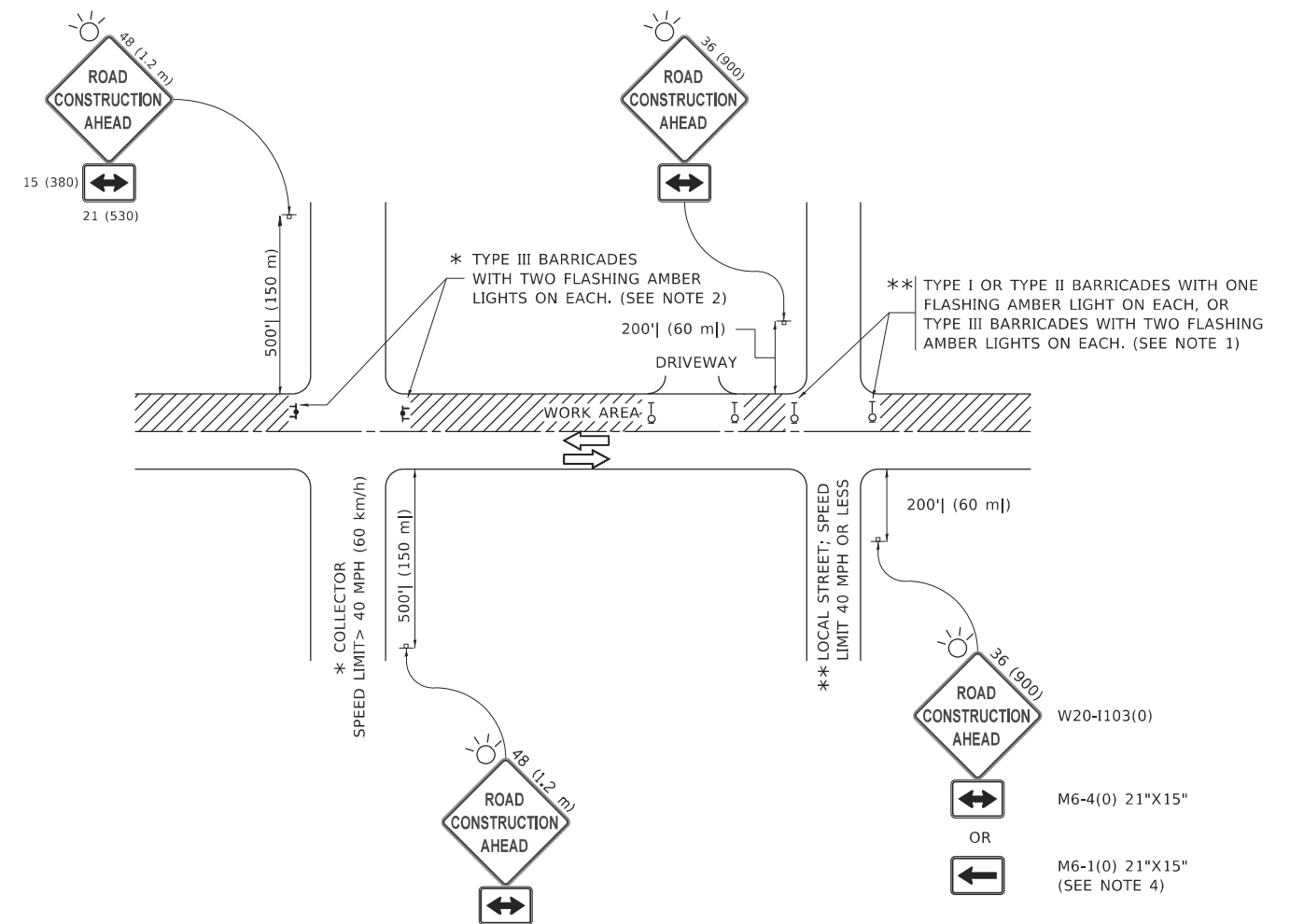
USER NAME = footem]	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06
PLOT SCALE = 50,0000 ' / in.	DRAWN -	REVISED - S.P.B. 01-07
PLOT DATE = 3/4/2019	CHECKED -	REVISED - S.P.B. 12-09
	DATE - 02-87	REVISED - M.D. 06-13

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	40
TC-09		CONTRACT NO. 62T44		
ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4),

WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

MODEL: D:\draft
 FILE NAME: p:\u110848E\BID\ITEG_ILlinis\pov\RWIDOT\Documents\DOT_Offices\District_1\Projects\DIHS\22-234\CAD\Draws\CAD\Sheet\TC-10.dgn

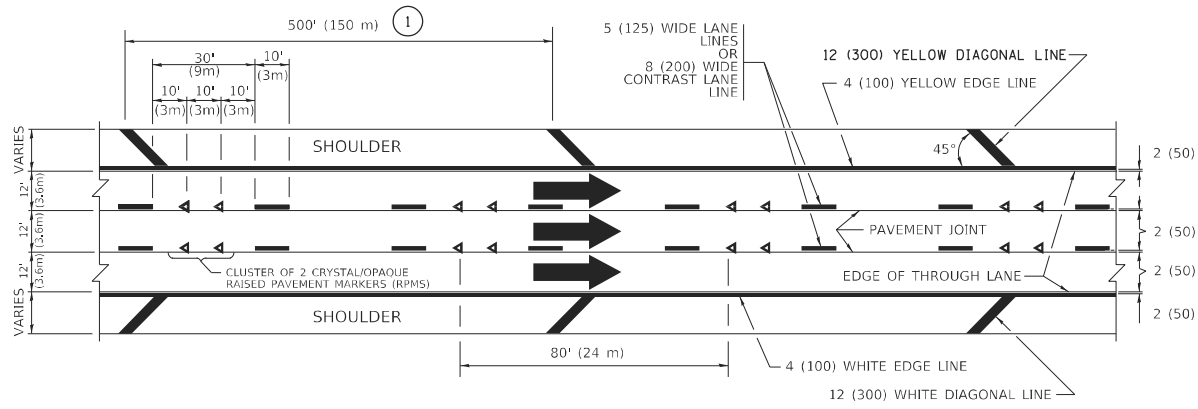
USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50,0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

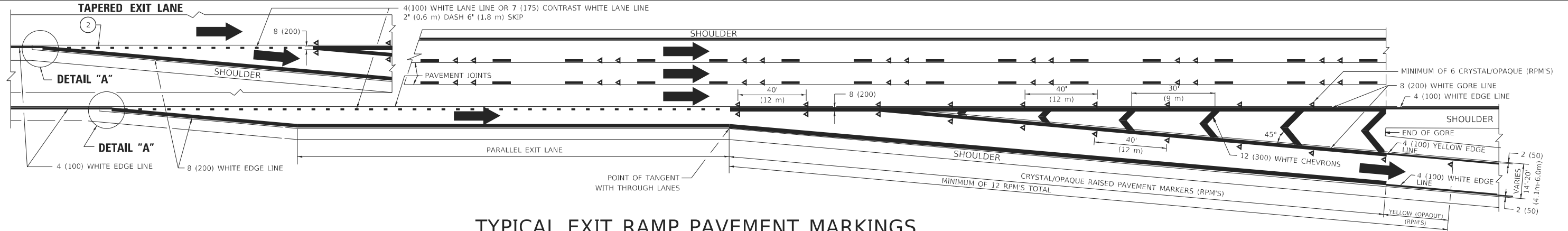
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	41
TC-10		CONTRACT NO. 62T44		
ILLINOIS FED. AID PROJECT				



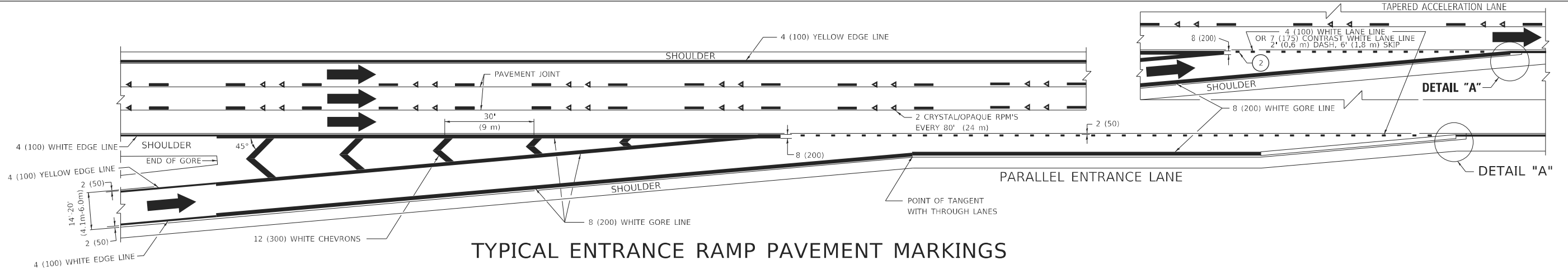
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

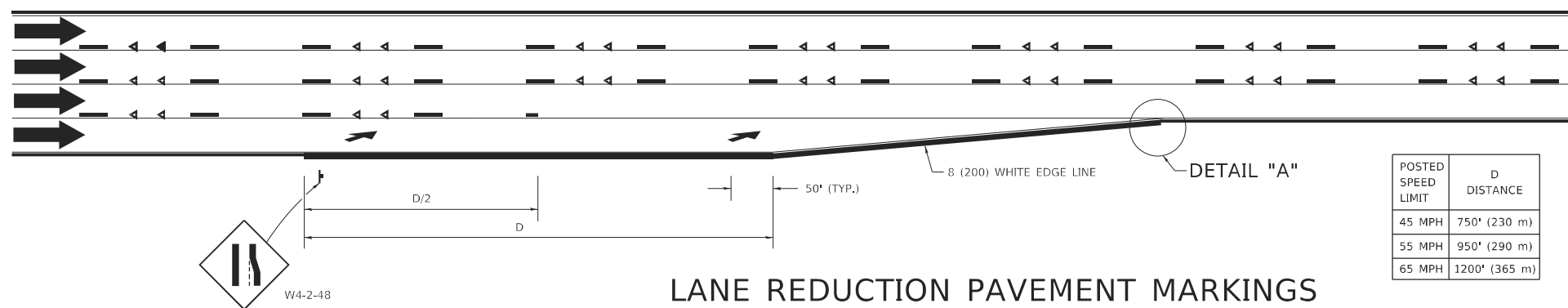
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE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



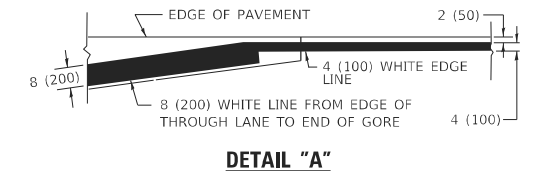
TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS



NOTES:

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

MODEL: Defaul... FILE: Manu... PROJECT: D:\Projects\DOT\Office\District: I\Project\Drawings\2022\2022\CAAD\Drawings\CAD\Sheet\12.dwg

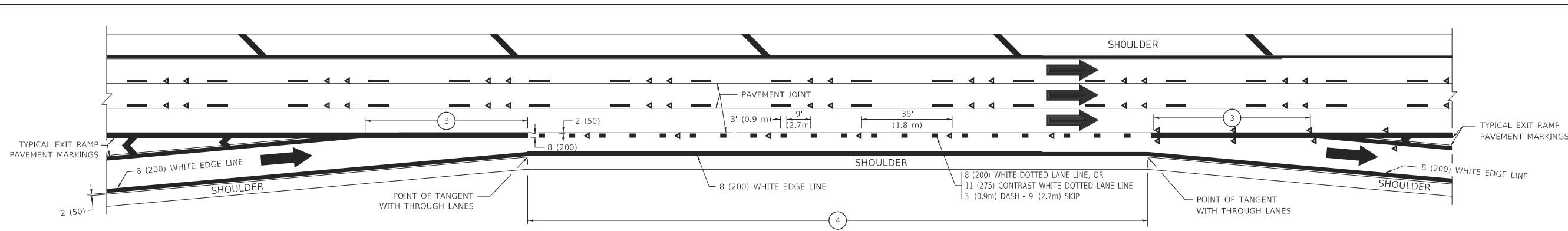
USER NAME = Lawrence,DeManche	DESIGNED - D.W.S.	REVISED - S.P.B. 01-10
DRAWN -	REVISED - M.D. 05-13	
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - M.D. 09-17
PLOT DATE = 11/18/2022	DATE - 01-90	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

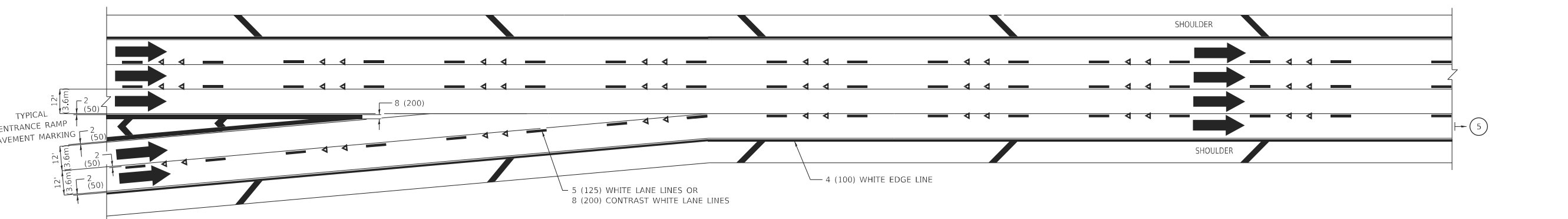
MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

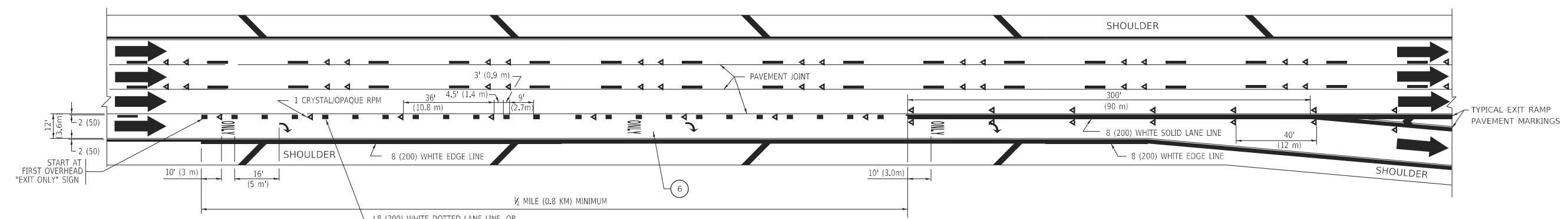
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	42
TC-12			CONTRACT NO. 62T44	
ILLINOIS FED. AID PROJECT				



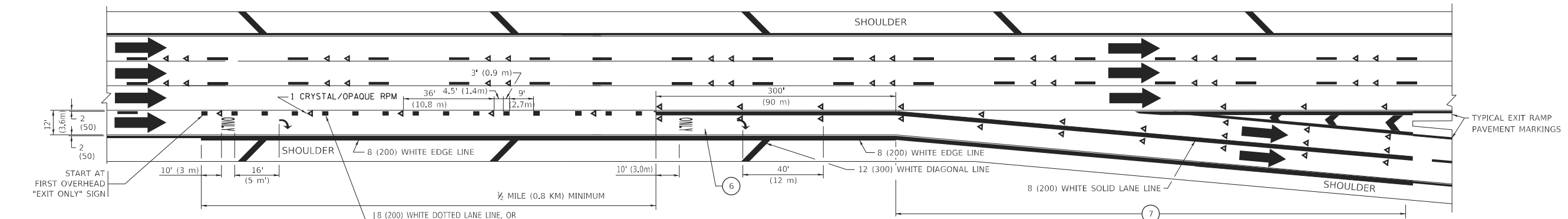
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

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

MODEL: Default
 FILE NAME: p:\1108\EBID\ITEG_IL\roads\pav\pvd\DOT\Documents\DOT_Offices\District_1\Projects\DIHS\22-234\CAD\Drawings\CAD\Sheet\TC12.dwg
 11/24/2019 10:32:33 AM 11/24/2019

USER NAME = footem	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06
	DRAWN -	REVISED - S.P.B. 01-07
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - S.P.B. 01-10
PLOT DATE = 3/4/2019	DATE - 01-90	REVISED - M.D. 09-17

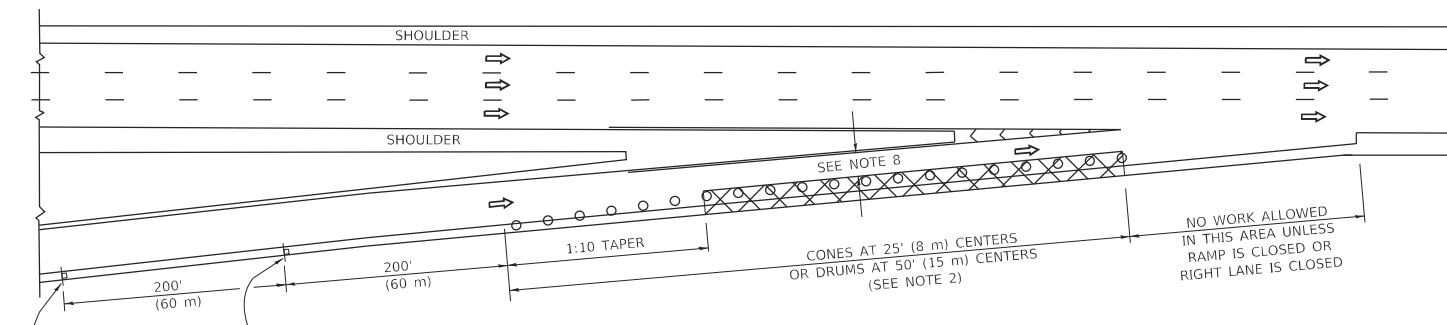
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS**

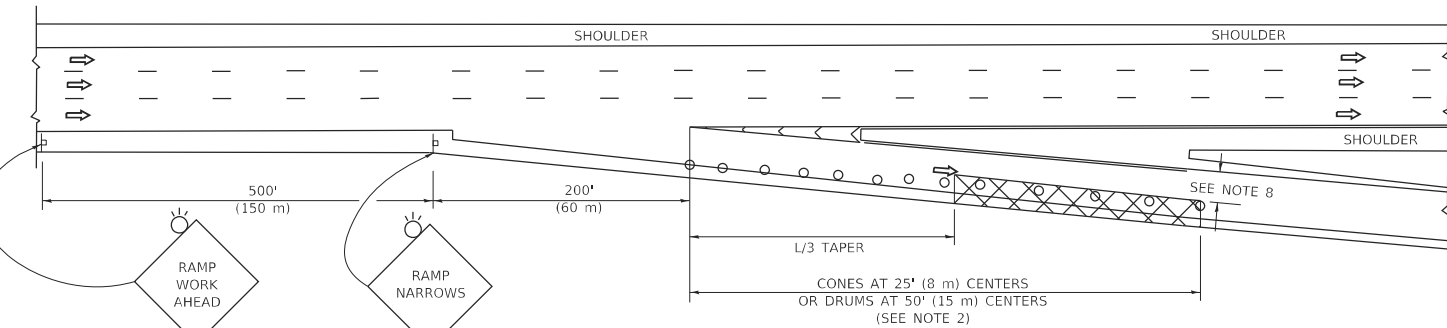
SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE. 1465	SECTION FAU 1465 22 BJ	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 43
TC-12		CONTRACT NO. 62T44		
ILLINOIS FED. AID PROJECT				

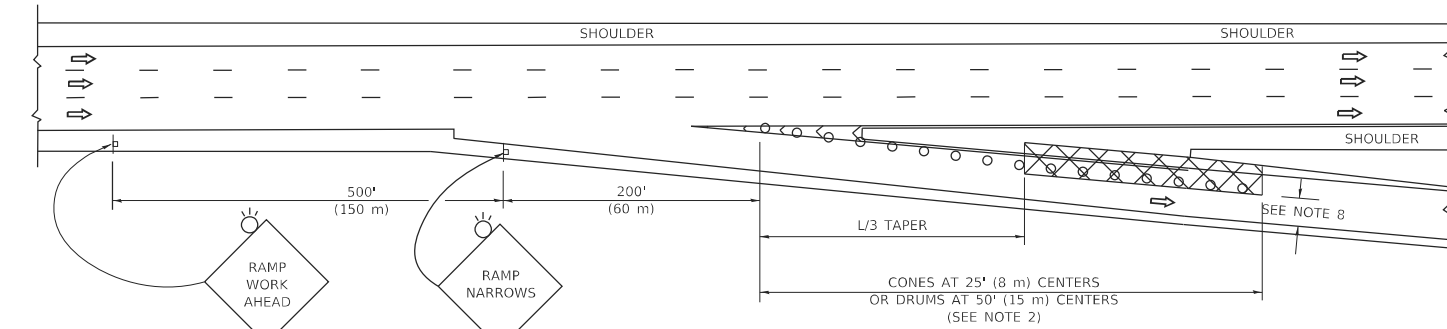
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

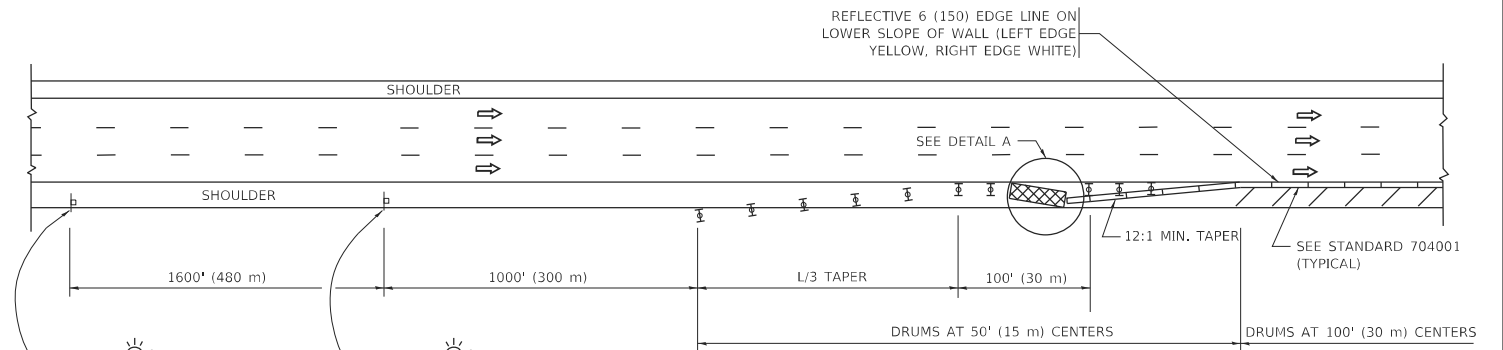
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES:

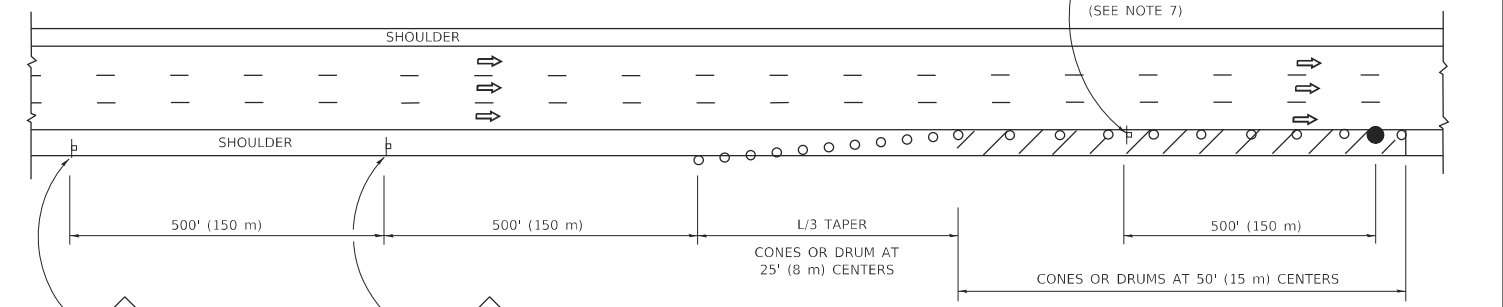
- THE "L" DISTANCE EQUALS:

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

SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

- THIS DETAIL IS USED WHERE:
- VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.3 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



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

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

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

MODEL: D:\default... FILE NAME: p:\u00848EBID\NTEC... PROJECTS\DOT\Office\District 1\Projects\DOT\146522\24\CAD\Drawings\CDP\Sheet\TC17.dwg

USER NAME = footemj	DESIGNED -	REVISED - S.P.B. 01-07
	DRAWN - D.W.S.	REVISED - S.P.B. 12-09
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - M.D. 06-13
PLOT DATE = 3/4/2019	DATE - 11-96	REVISED - M.D. 01-18

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.U. RTE. 1465	SECTION FAU 1465 22 BJ	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 44
TC-17		CONTRACT NO. 62T44		
ILLINOIS FED. AID PROJECT				

MODEL: D:\default
 FILE NAME: p:\110848E\BID\ITEG_IL\mils.gov\RWIDOT\Documents\1DOT_Offices\District 11\Projects\DIH\5422-2-34C\00Data\CAD\Sheet\TC21.dgn

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

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

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

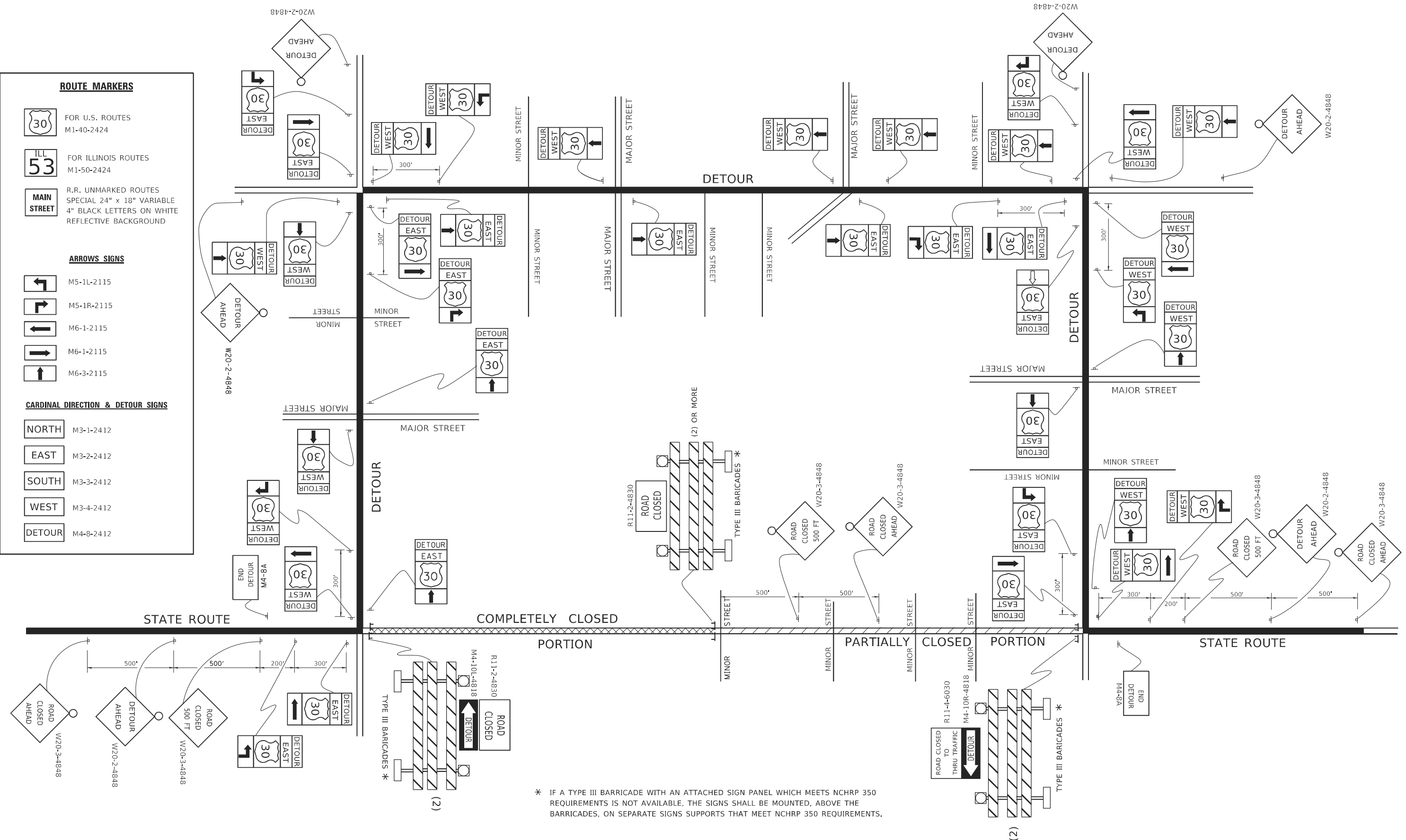
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



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

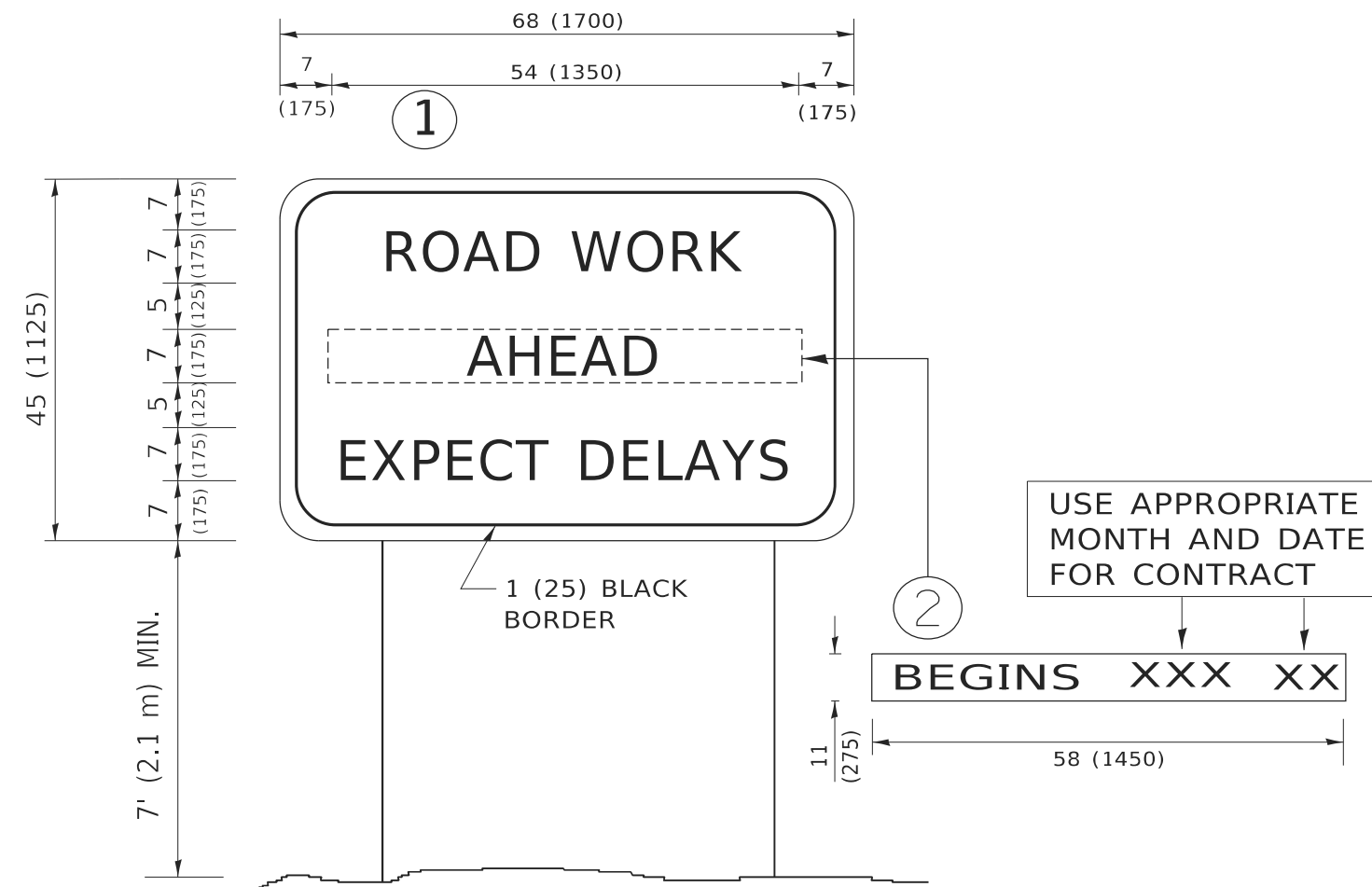
USER NAME = footem	DESIGNED -	REVISED - 10-18-02
	DRAWN -	REVISED - R. BORO 09-14-09
PLOT SCALE = 50,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING
 FOR CLOSING STATE HIGHWAYS**

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

F.A.U. RTE. 1465	SECTION FAU 1465 22 BJ	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 45
TC-21		CONTRACT NO. 62T44		
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.

MODEL: D:\draft FILE NAME: p:\110848E\BID\ITEC\Illinois.gov\RW\DOT\Documents\DOT_Offices\District_1\Projects\DH\5422\240\CAD\Drawings\CAD\Sheet\TC22.dgn

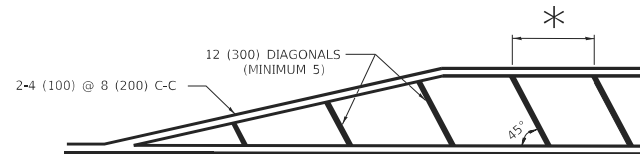
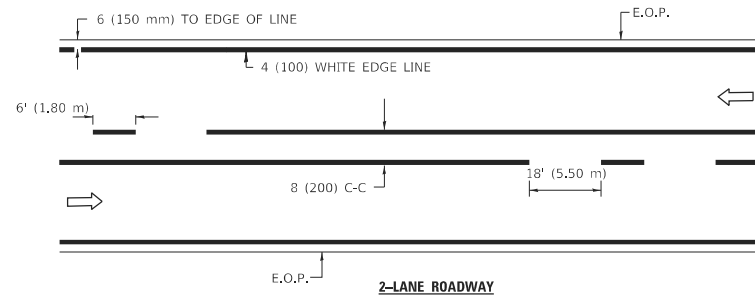
USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

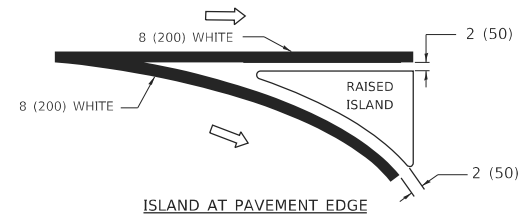
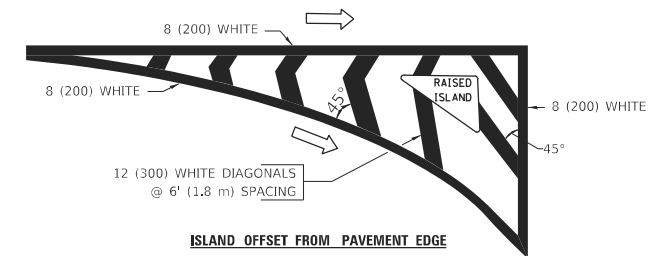
**ARTERIAL ROAD
INFORMATION SIGN**

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

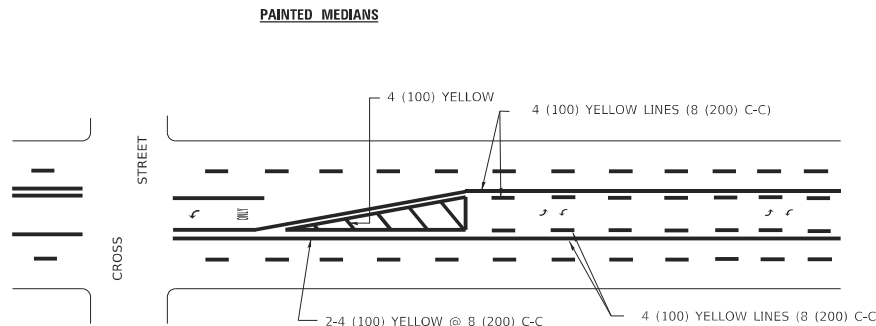
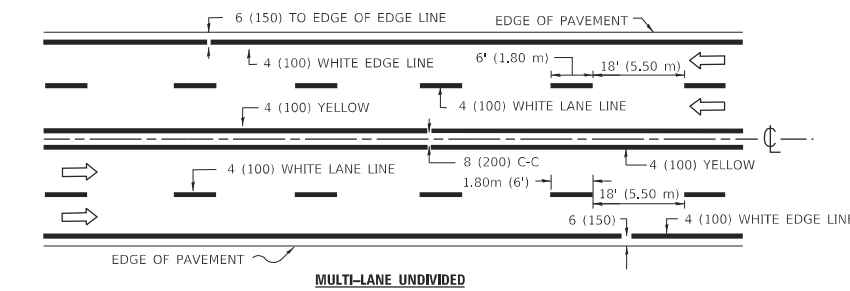
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	46
TC-22			CONTRACT NO. 62T44	
ILLINOIS FED. AID PROJECT				



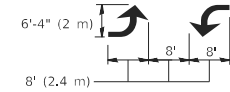
* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 * DIAGONAL LINE SPACING: 20' (6.1 m) C-C



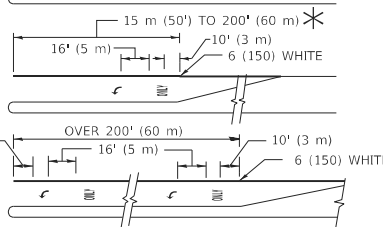
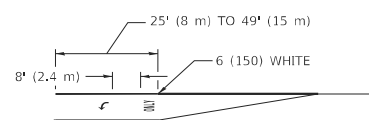
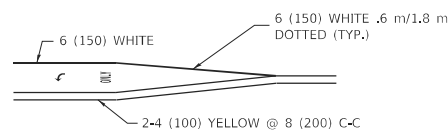
TYPICAL ISLAND MARKING



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



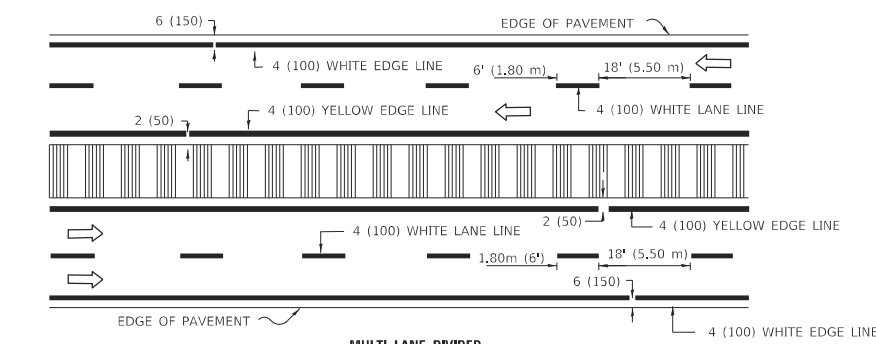
TYPICAL PAINTED MEDIAN MARKING



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

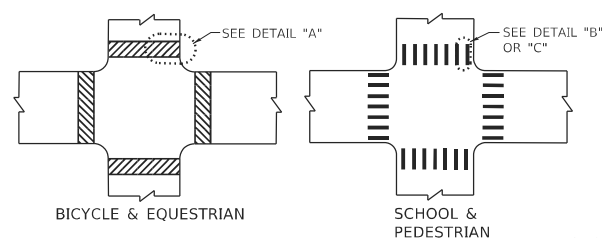
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

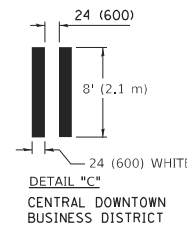


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL & PEDESTRIAN)	12 (300) @ 45° 24 (600) @ 90°	SOLID SOLID	WHITE WHITE	2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK. IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	8 (200) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)

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

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

MODEL: Default
 FILE NAME: p:\u0008\EBID\NTEG_ILLINOIS\pov\PWIDOT\Documents\District_1\Projects\DH\5422-24\CAD\Drawn\CAD\Sheet\TC24.dgn

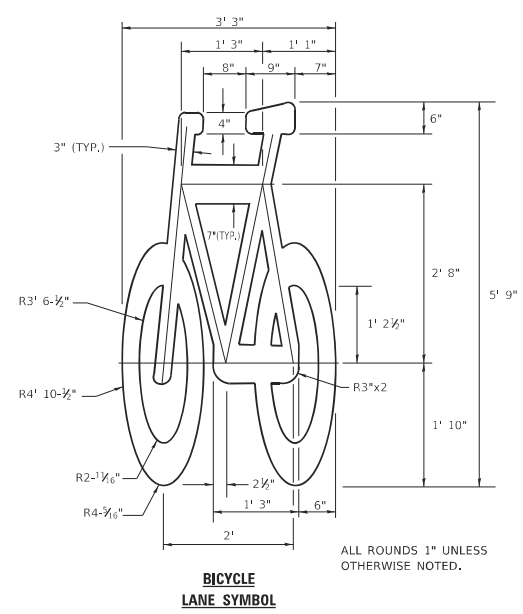
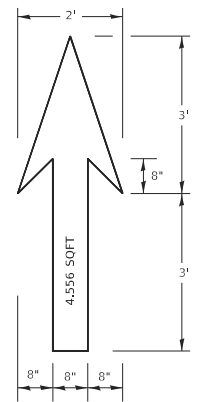
USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 12-07-00
PLOT SCALE = 50.0000 ' / in.	DRAWN -	REVISED - K. ENG 02-28-12
PLOT DATE = 3/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CITY OF CHICAGO
 TYPICAL PAVEMENT MARKINGS**

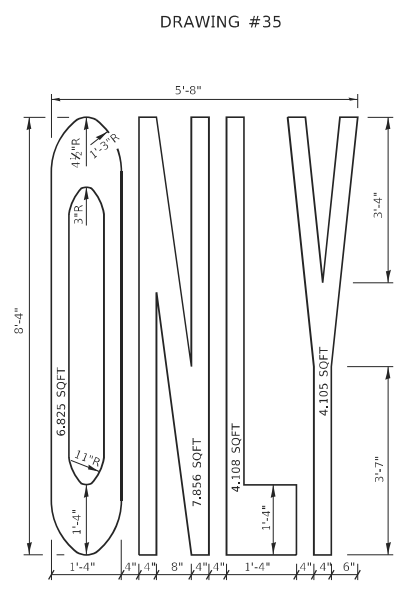
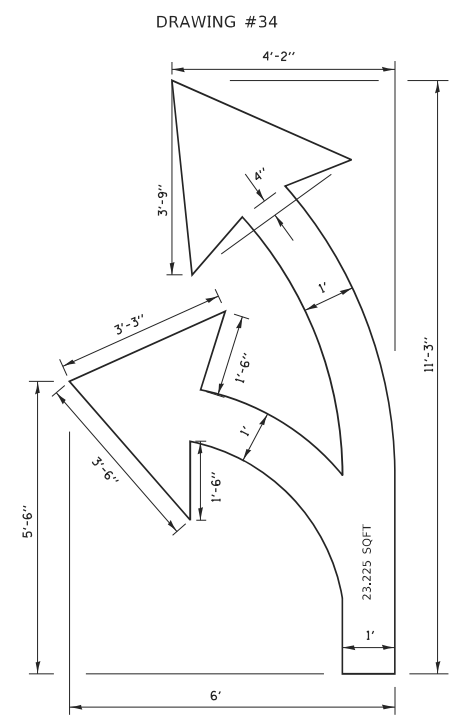
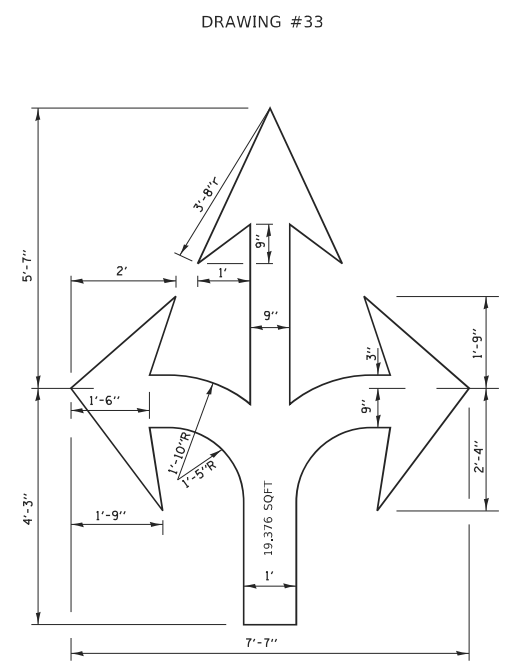
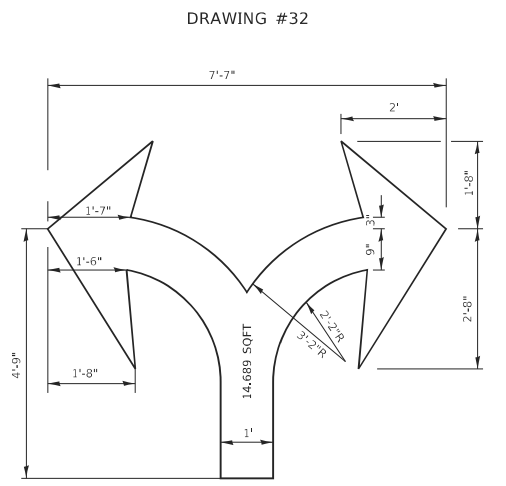
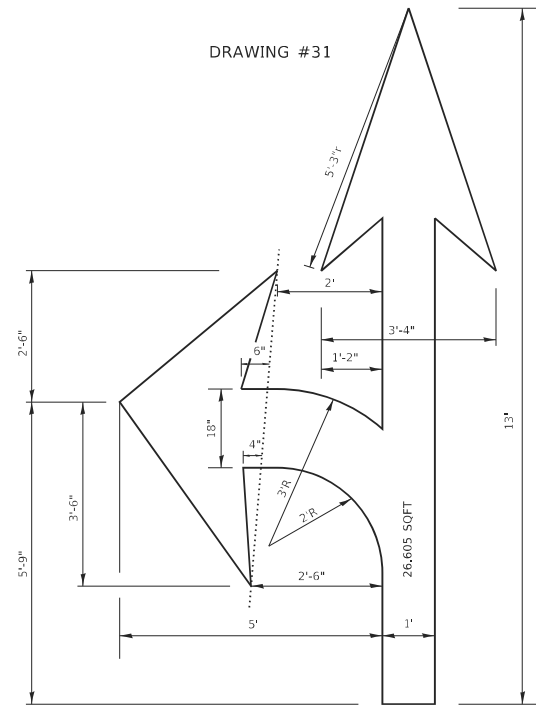
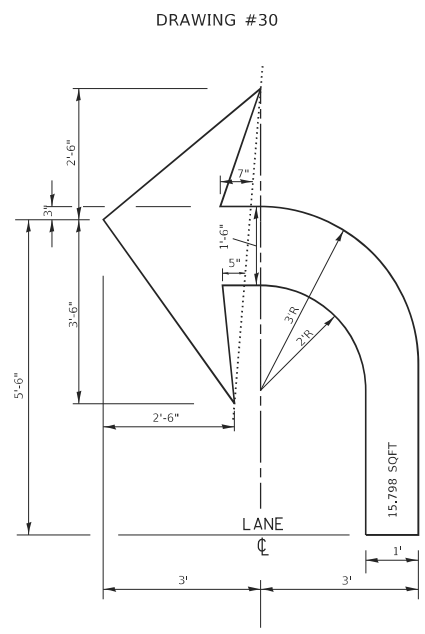
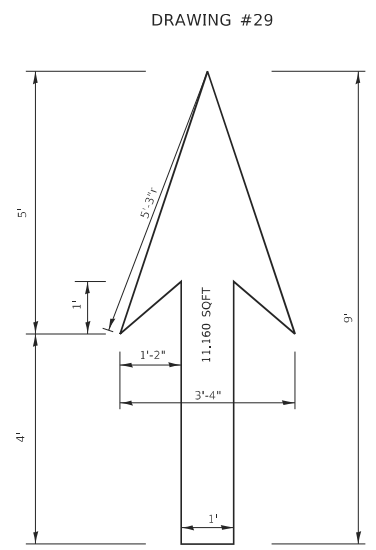
SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	47
	TC-24	CONTRACT NO.	62T44	
	ILLINOIS	FED. AID PROJECT		



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

TYPICAL BIKE LANE SYMBOLS
DRAWING #28



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

MODEL: Default
FILE NAME: p:\110848EB\NTEG_IL\mils\pav\RWIDOT\Documents\DOT_Offices\District_1\Projects\DH15422\340\CD\Draw\CAD\pav\sheet124.dgn

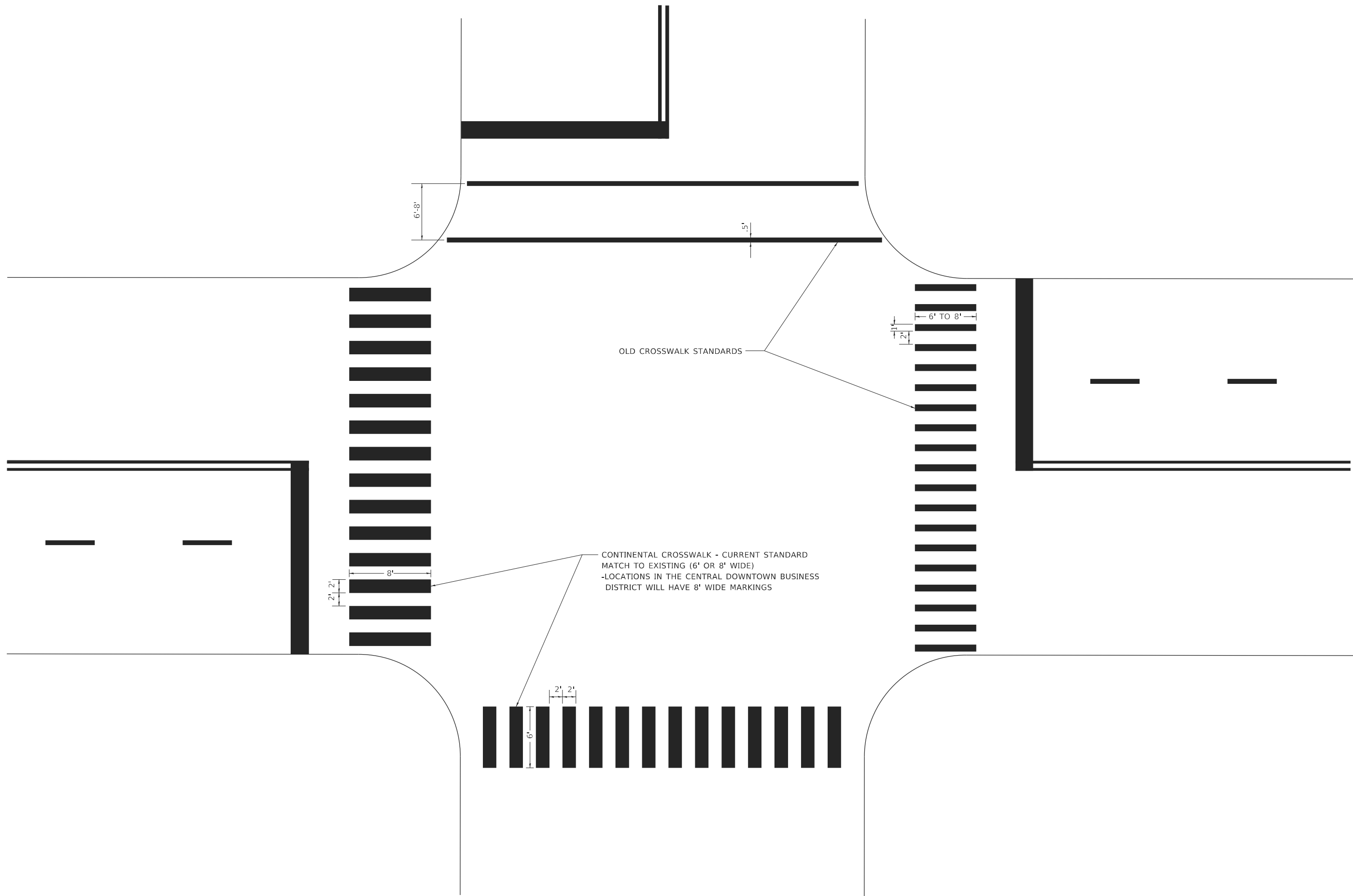
USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 12-07-00
PLOT SCALE = 50.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 3/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET 2	OF 3 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	48
TC-24		CONTRACT NO. 62T44		
ILLINOIS		FED. AID PROJECT		

MODEL: D:\draft
 FILE NAME: p:\11084EBID\NTEC_ILLINOIS\pov\PWIDOT\Documents\DOT_Offices\District_1\Projects\DH5422\240\CADData\CAD\Sheet3124.dgn



CONTINENTAL CROSSWALK - CURRENT STANDARD
 MATCH TO EXISTING (6' OR 8' WIDE)
 -LOCATIONS IN THE CENTRAL DOWNTOWN BUSINESS
 DISTRICT WILL HAVE 8' WIDE MARKINGS

OLD CROSSWALK STANDARDS

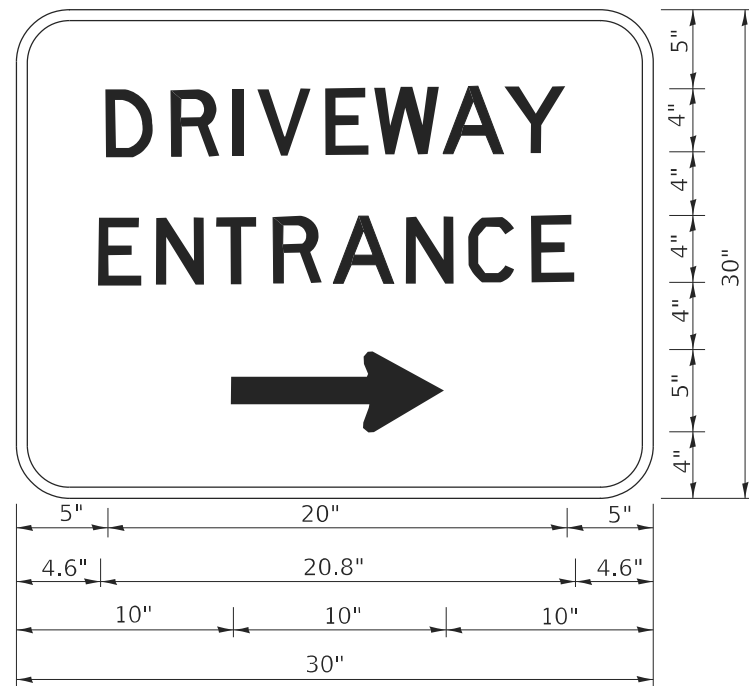
USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 12-07-00
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CITY OF CHICAGO
 TYPICAL PAVEMENT MARKINGS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	49
TC-24		CONTRACT NO. 62T44		
ILLINOIS FED. AID PROJECT				



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

NOTES:

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

MODEL: D:\draft
 FILE NAME: p:\planning\mtdat\illinois.gov\PWIDOT\Documents\DOT_Offices\District_1\Projects\Dist5\0223A\CD\Drawn\CD\Sheet326.dgn

USER NAME = Ieysa	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/6/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

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

F.A. U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1465	FAU 1465 22 BJ	COOK	50	50
TC-26		CONTRACT NO. 62T44		
		ILLINOIS	FED. AID PROJECT	