

12-13-2024 SPECIAL LETTING ITEM 001

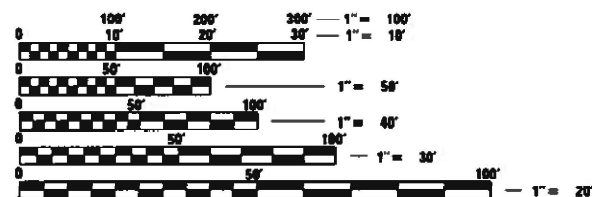
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED HIGHWAY PLANS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION: OTHER PRINCIPAL ARTERIAL
FAP ROUTE 330: US 45
2021 ADT: 34,000 VPD
SPEED LIMIT: 45 MPH

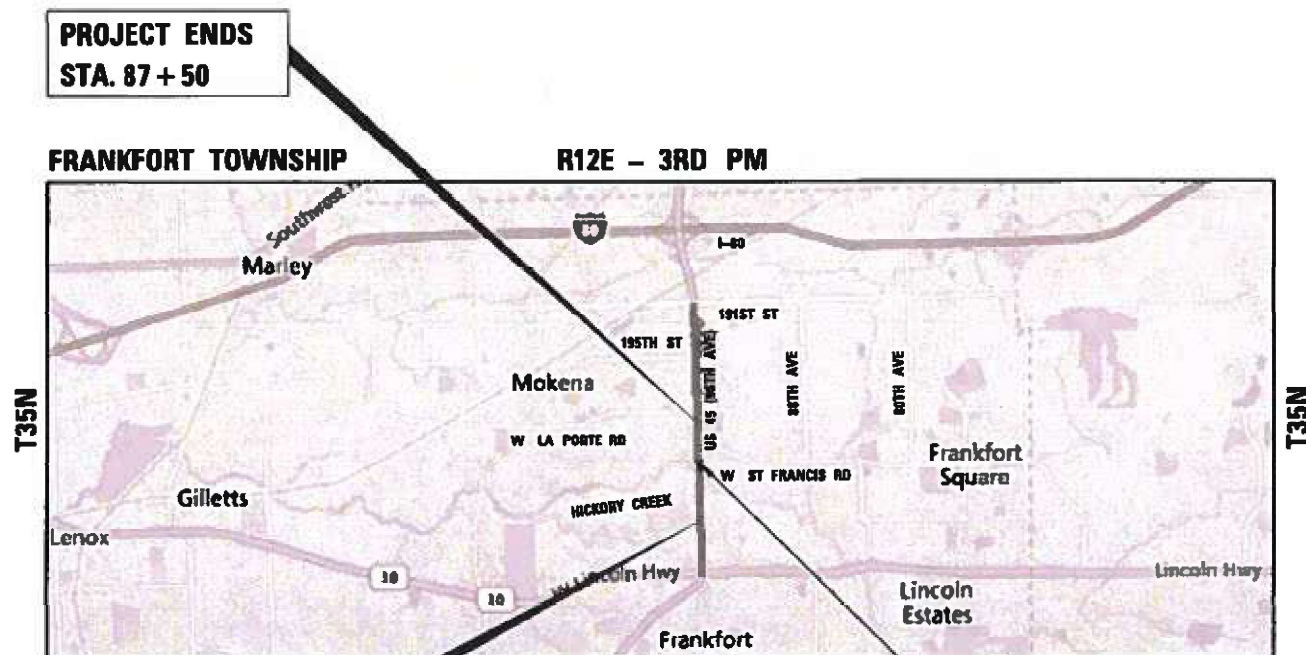
IMPROVEMENT LOCATED IN:
VILLAGE OF FRANKFORT

FAP ROUTE 330: US 45
US 45 (96TH AVE / LA GRANGE RD) OVER HICKORY CREEK
SECTION FAP 0330 22 BJ2
FEDERAL AID PROJECT NHPP-XJUP(220)
BRIDGE OVERLAY, JOINT REPAIR, AND SUBSTRUCTURE REPAIRS
WILL COUNTY
C-91-281-22



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

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



PROJECT ENDS
STA. 87 + 50

PROJECT BEGINS
STA. 38 + 96

LOCATION MAP (NOT TO SCALE)
GROSS LENGTH = 4,854 FT. = 0.919 MILE
NET LENGTH = 1,327 FT. = 0.252 MILE

S.N. 099-0293



DATE SIGNED: 08/09/2024
EXP. DATE: 11/30/2024
SHEET: 22-37



DATE SIGNED: 08/09/2024
EXP. DATE: 11/30/2025
SHEET: 1-21, 38-46

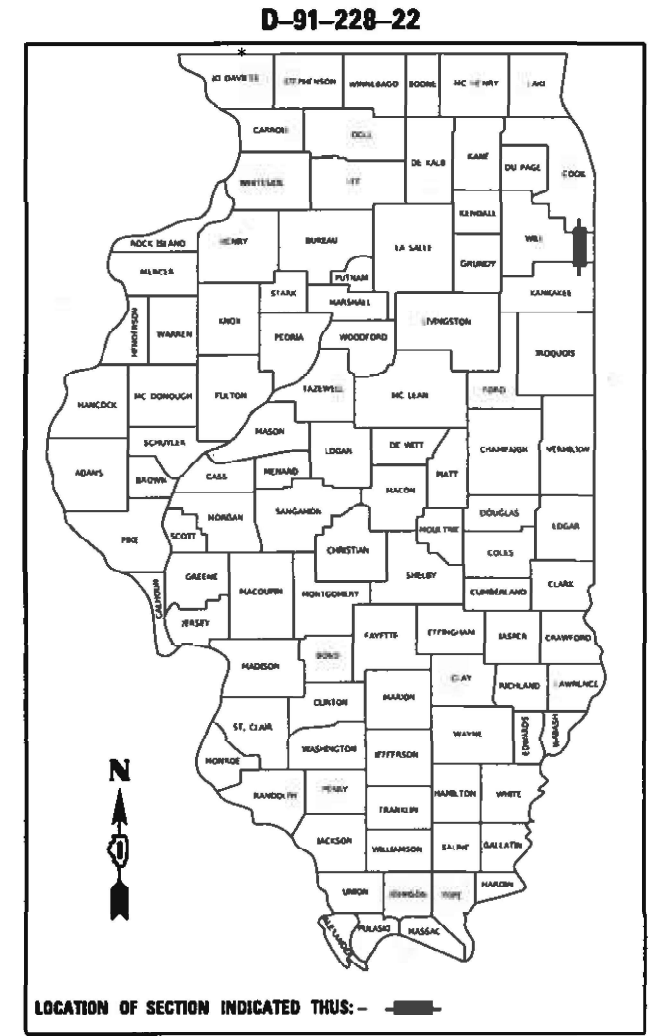
PROJECT MANAGER: MR. J. ALAIN MIDY, PE, (847) 221-3056

CONTRACT NO. 62T04

Accurate
GROUP, INC.
WWW.ACCGI.COM
101 SCHELTER RD., SUITE B-200
LINCOLNSHIRE, ILLINOIS 60069
T (847) 613-1100 F (847) 613-1105
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184.002053

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 BJ2	WILL	46	1

ILLINOIS CONTRACT NO. 62T04
* 46 + 2 = 48 TOTAL SHEETS
** 48 + 1 = 49 TOTAL SHEETS



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Aug 13th 2024
Jamal Davis REGIONAL ENGINEER

October 4, 2024
Maen A. Farhat
ENGINEER OF DESIGN AND ENVIRONMENT

October 4, 2024
Jamal Davis
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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STATE OF ILLINOIS HIGHWAY STANDARDS

STANDARD NO.	TITLE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-04	NAME PLATE FOR BRIDGES
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611-01	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE 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
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOURS NOTIFICATION REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF FRANKFORT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)".
- THE CONTRACTOR MUST CONTACT THE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT ERIC CAMPOS, WILL COUNTY AREA FIELD TRAFFIC ENGINEER, AT ERIC.CAMPOS@ILLINOIS.GOV AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING 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 BASED UPON THE UNIT PRICE BID FOR THE WORK.
- THE CONTRACTOR SHALL USE CAUTION IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN IN THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.
- THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES, LETTERS AND SYMBOLS AND RAISED REFLECTIVE MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL ENSURE THAT ALL WORKERS FOLLOW CURRENT OSHA RULES AND OTHER APPLICABLE GUIDELINES REGARDING WORKING SAFELY AROUND EXISTING OVERHEAD DISTRIBUTION ELECTRICAL FACILITIES.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
- NO PARKING OR CONSTRUCTION STAGING SHALL OCCUR ALONG ANY VEGETATED RIGHTS OF WAY THE LENGTH OF THE PROJECT.
- SAW CUTTING OF PAVEMENT, SIDEWALK, CURB & GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING
- ALL DAMAGE TO EXISTING SIGNAGE, PAVEMENT MARKINGS, AND/OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- TREE REMOVAL IS NOT ANTICIPATED IN THIS PROJECT. IF TREE REMOVAL IS IDENTIFIED DURING CONSTRUCTION WITHIN THE PROJECT LIMITS, PLEASE CONTACT ENVIRONMENTAL STUDIES UNIT HEAD VANESSA.RUIZ@ILLINOIS.GOV.
- STATIONS AND OFFSETS SHOWN IN THE PLANS ARE APPROXIMATE.
- SIDEWALK REMOVAL AND PCC SIDEWALK 5" LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.

MODEL: Default
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USER NAME = default	DESIGNED - JJD	REVISED -
	DRAWN - JLS	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JJD	REVISED -
PLOT DATE = 8/15/2024	DATE - 08/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE HIGHWAY STANDARDS AND GENERAL NOTES
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 B/2	WILL	46	2
			CONTRACT NO. 62T04	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED 20% STATE BRIDGE 0059 S.N. 099-0293
20200100	EARTH EXCAVATION	CU YD	667	667
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	125	125
20101100	TREE TRUNK PROTECTION	EACH	15	15
25200110	SODDING, SALT TOLERANT	SQ YD	125	125
20101200	TREE ROOT PRUNING	EACH	15	15
25200200	SUPPLEMENTAL WATERING	UNIT	2	2
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	15	15
28000510	INLET FILTERS	EACH	20	20
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	2090	2090
31101800	SUBBASE GRANULAR MATERIAL, TYPE B 10"	SQ YD	1540	1540
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3464	3464
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	677	677
40600370	LONGITUDINAL JOINT SEALANT	FOOT	560	560
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	437	437
40604060	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N50	TON	345	345
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	169	169
42001300	PROTECTIVE COAT	SQ YD	665	665

* SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED 20% STATE BRIDGE 0059 S.N. 099-0293
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	250	250
44000100	PAVEMENT REMOVAL	SQ YD	2090	2090
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2988	2988
44000600	SIDEWALK REMOVAL	SQ FT	250	250
44003100	MEDIAN REMOVAL	SQ FT	13854	13854
44201798	CLASS D PATCHES, TYPE I, 13 INCH	SQ YD	22	22
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	44	44
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	66	66
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SQ YD	88	88
50102400	CONCRETE REMOVAL	CU YD	23.5	23.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	26.5	26.5
50300300	PROTECTIVE COAT	SQ YD	1066	1066
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2640	2640
50800515	BAR SPLICERS	EACH	44	44

* SPECIALTY ITEMS

MODEL: S00_1
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PLOT DATE = 8/14/2024	CHECKED - JJD	REVISED -
	DATE - 08/09/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK**

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 B/J2	WILL	46	3
			CONTRACT NO. 62T04	
ILLINOIS FED. AID PROJECT				

MODEL: S00_2
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED 20% STATE BRIDGE 0059 S.N. 099-0293
52000110	PREFORMED JOINT STRIP SEAL	FOOT	160	160
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	7	7
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	560	560
60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	2428	2428
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	560	560
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	8	8
67100100	MOBILIZATION	L SUM	1	1
70103815	TRAFFIC CONTROL SUREILLANCE	CAL DA	28	28
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	140	140
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	17665	17665
70300241	TEMPORARY PAVEMENT MARKING - LINE 6" - PAINT	FOOT	1588	1588

* SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED 20% STATE BRIDGE 0059 S.N. 099-0293
70307100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	SQ FT	983	983
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	22 899	22 899
70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	8733	8733
70307140	TEMPORARY PAVEMENT MARKING - LINE 8" - TYPE IV TAPE	FOOT	233	233
70307160	TEMPORARY PAVEMENT MARKING - LINE 12" - TYPE IV TAPE	FOOT	2437	2437
70307210	TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE	FOOT	250	250
70400100	TEMPORARY CONCRETE BARRIER	FOOT	812.5	812.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	712.5	712.5
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	656	656
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6728	6728
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	3091	3091
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	233	233

* SPECIALTY ITEMS



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION FAP 0330 22 B/J2	COUNTY WILL	TOTAL SHEETS 46	SHEET NO. 4
CONTRACT NO. 62T04				
ILLINOIS FED. AID PROJECT				

REVISED SHEET 10/24/2024

REV-SEP

MODEL: S00_3
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED 20% STATE	BRIDGE 0059 S.N. 099-0293
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2437		2437
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	250		250
* 78004635	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 7"	FOOT	57		57
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	656		656
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	7180		7180
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	3091		3091
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	233		233
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	2437		2437
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	250		250
* 78011040	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	57		57
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	16		16
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	16		16
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	5010		5010
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	598		598

* SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED 20% STATE	BRIDGE 0059 S.N. 099-0293
X5030539	FLOOR DRAINS TO BE CLEANED	EACH	8		8
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	14		14
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12		12
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	200		200
* X7830052	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT	EACH	200		200
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	8		8
Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	181		181
Z0006016	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4 INCHES	SQ YD	637		637
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	637		637
Z0012157	BRIDGE DECK SCARIFICATION 1/2"	SQ YD	181		181
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	89.5		89.5
Z0012800	CONCRETE PAVEMENT SCARIFICATION	SQ YD	1066		1066
Z0015500	DEBRIS REMOVAL	L SUM	1		1

* SPECIALTY ITEMS

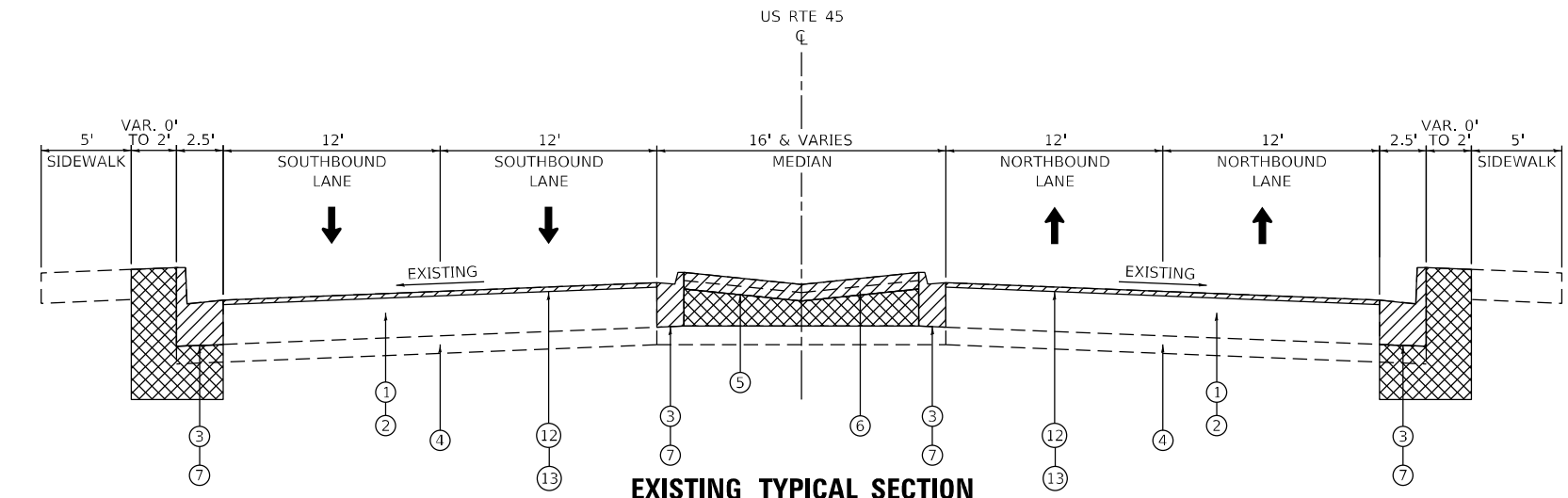


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK	
SCALE: NONE	SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION FAP 0330 22 B/J2	COUNTY WILL	TOTAL SHEETS 46	SHEET NO. 5
			CONTRACT NO. 62T04	
ILLINOIS FED. AID PROJECT				



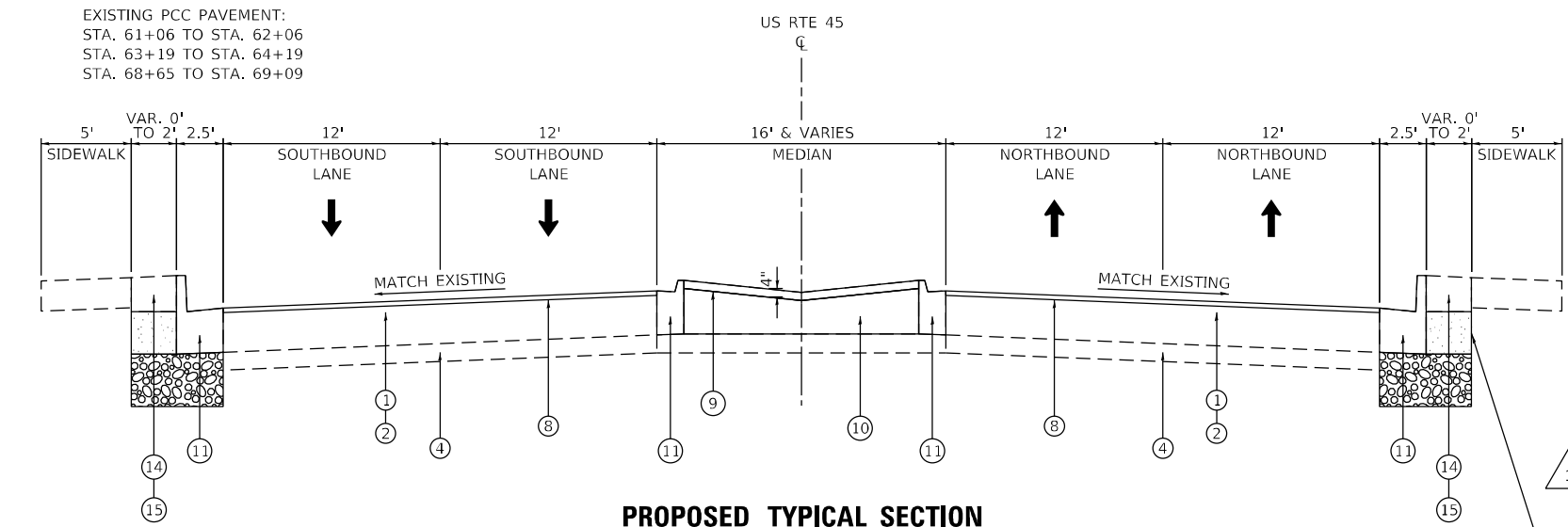
EXISTING TYPICAL SECTION

STA. 55+82 TO STA. 62+06
 STA. 63+19 TO STA. 69+09
 BRIDGE OMISSION: STA. 62+06 TO STA. 63+19

NOTE:

EXISTING HMA PAVEMENT:
 STA. 55+82 TO STA. 61+06
 STA. 64+19 TO STA. 68+65

EXISTING PCC PAVEMENT:
 STA. 61+06 TO STA. 62+06
 STA. 63+19 TO STA. 64+19
 STA. 68+65 TO STA. 69+09



PROPOSED TYPICAL SECTION

STA. 55+82 TO STA. 62+06
 STA. 63+19 TO STA. 69+09
 BRIDGE OMISSION: STA. 62+06 TO STA. 63+19

LEGEND

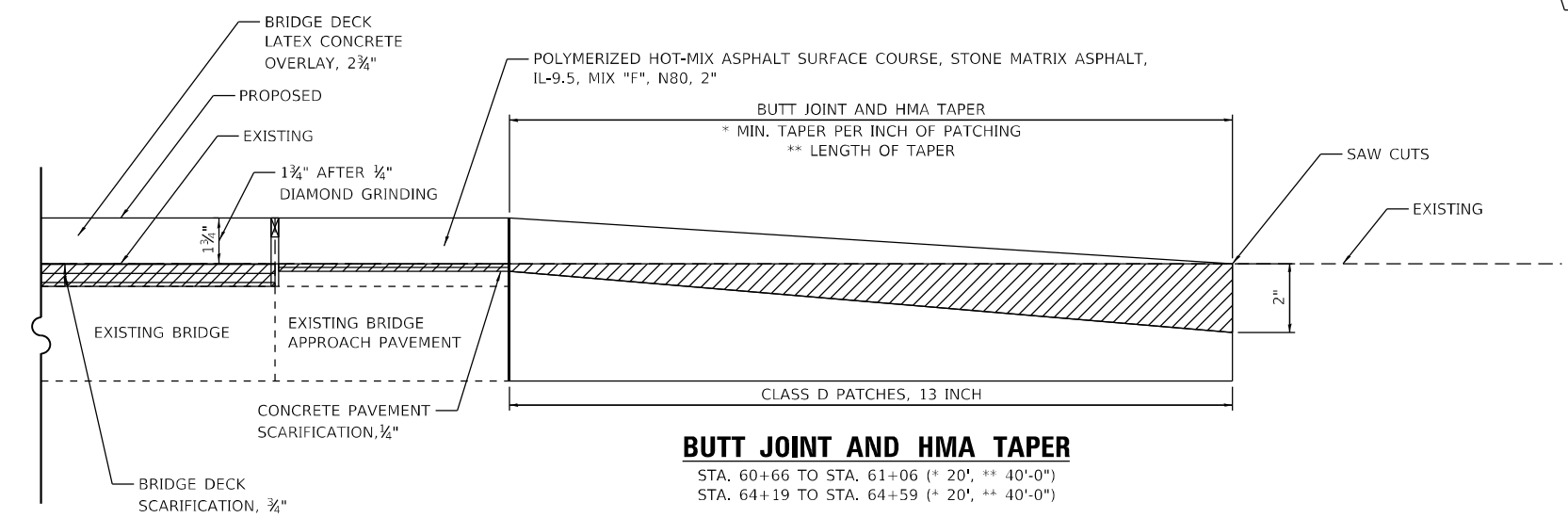
- ① EXISTING HOT-MIX ASPHALT PAVEMENT ± 14½"
- ② EXISTING PCC PAVEMENT ± 10"
- ③ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ④ EXISTING AGGREGATE SUBGRADE
- ⑤ EXISTING HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- ⑥ PROPOSED MEDIAN REMOVAL
- ⑦ PROPOSED CONCRETE CURB AND GUTTER REMOVAL
- ⑧ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 2"
- ⑨ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 4"
- ⑩ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 10"
- ⑪ PROPOSED COMBINATION CONCRETE CURB & GUTTER
- ⑫ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- ⑬ PROPOSED CONCRETE PAVEMENT SCARIFICATION, ¼"
- ⑭ TOP SOIL FURNISH & PLACE, 4"
- ⑮ SODDING, SALT TOLERANT

- REMOVAL ITEMS
- EARTH EXCAVATION
- SUBBASE GRANULAR MATERIAL, TYPE B 4"

HMA MIXTURE REQUIREMENTS CHART

OPERATION	MIXTURE TYPE	AIR VOIDS (%) @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
BUTT JOINT AND HMA TAPER	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, IL-9.5, MIX "F", N80, 2"	3.5% @ 80 Gyr.	QC/QA
TEMPORARY PAVEMENT	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 2" HOT-MIX ASPHALT BINDER, IL-19.0, N70, 8"	4% @ 70 Gyr. 4% @ 70 Gyr.	QC/QA QC/QA
HMA MEDIAN	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 4"	4% @ 50 Gyr.	QC/QA
CLASS D PATCHES	HOT-MIX ASPHALT BINDER, IL-19.0	4% @ 70 Gyr.	QC/QA

QUALITY MANAGEMENT PROGRAM (QMP) DESIGNATION:
 QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)
 QUALITY CONTROL FOR PERFORMANCE (QCP)



BUTT JOINT AND HMA TAPER

STA. 60+66 TO STA. 61+06 (* 20', ** 40'-0")
 STA. 64+19 TO STA. 64+59 (* 20', ** 40'-0")

NOTE:

- THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LB/SY/IN.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22", AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.
- PC CONCRETE TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART.1020 OF THE STANDARD SPECIFICATIONS. TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS. PC CONCRETE TEMPORARY PAVEMENT SHALL HAVE A THICKNESS OF 8". ALL TEMPORARY PAVEMENT SHALL BE PROVIDED OVER SUBBASE GRANULAR, TYPE B 4".
- THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED UNDER THE HMA SURFACE LIFT.
- CONTRACTOR SHALL MILL BEFORE PATCHING.
- TEMPORARY PAVEMENT SHALL BE INSTALLED AT THE SCARIFIED MEDIAN ELEVATION WITHIN THE LIMITS OF THE BRIDGE AND APPROACH PAVEMENT. TEMPORARY PAVEMENT SHALL TIE INTO THE EXISTING ROADWAY ELEVATION BY USING THE "BUTT JOINT AND TAPER DETAIL"

FILL MATERIAL (COST INCLUDED IN EARTH EXCAVATION, TYP.)

REVISED SHEET 10/24/2024



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PLOT SCALE = 10,0000' / in.	DRAWN - JLS	REVISED -
PLOT DATE = 10/22/2024	CHECKED - JJD	REVISED -
	DATE - 08/09/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
 BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK
 SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 BJ2	WILL	46	7
CONTRACT NO. 62T04				
ILLINOIS FED. AID PROJECT				

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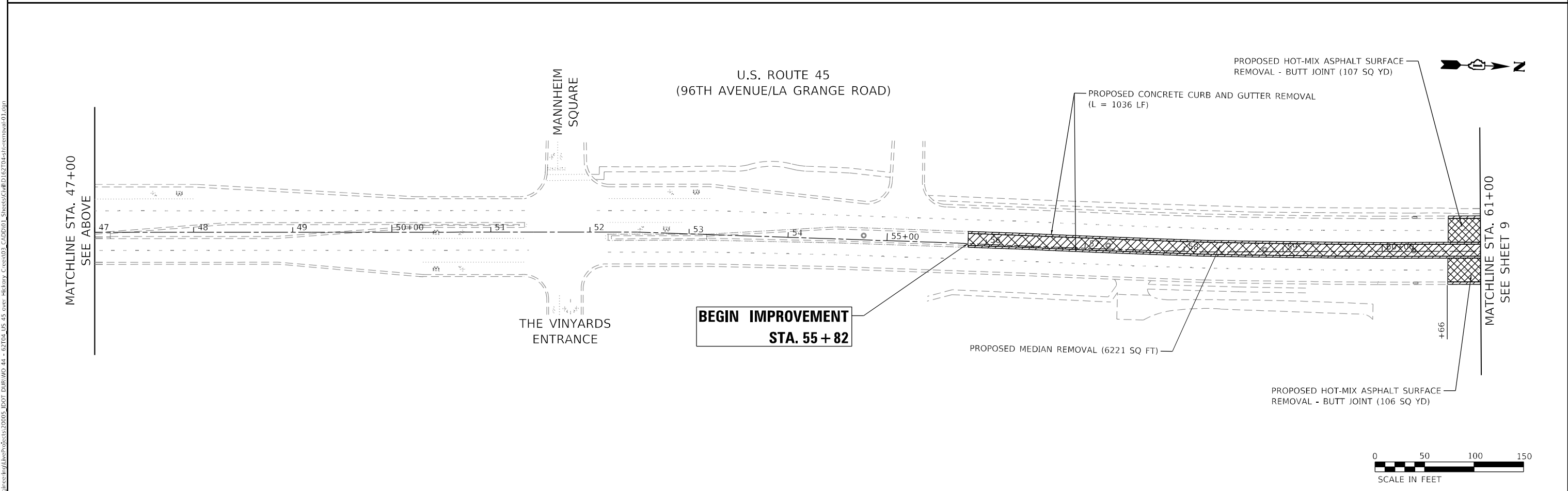
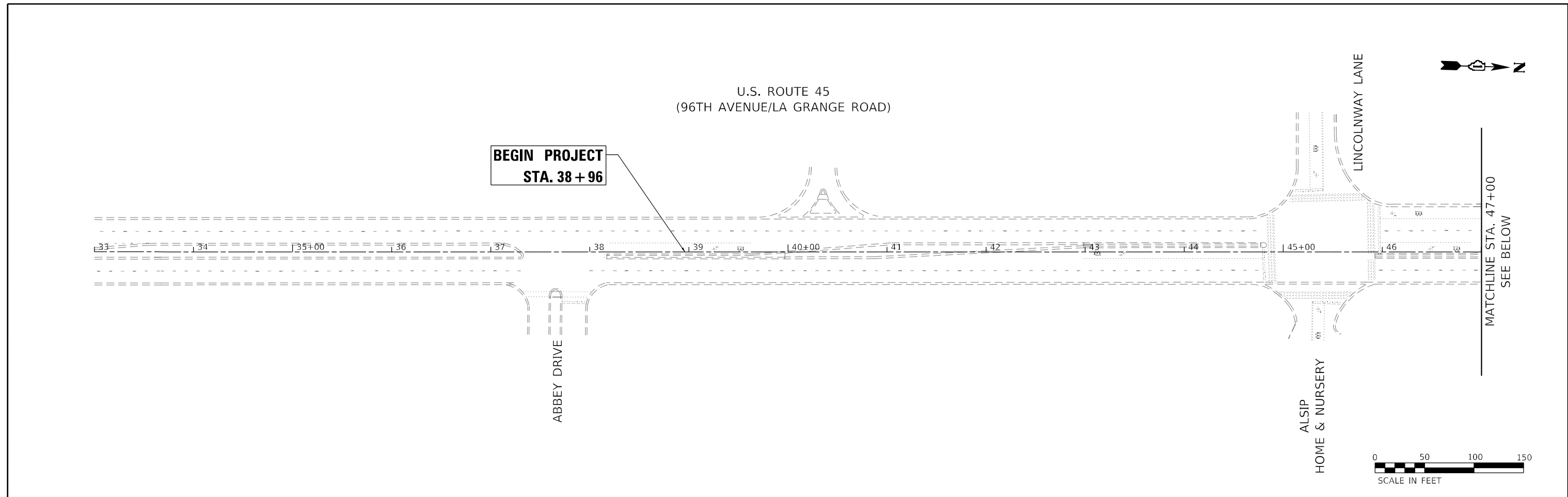


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PLOT DATE = 8/9/2024	DATE - 08/09/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN	
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK	
SCALE: 1" = 50'	SHEET 1 OF 2 SHEETS
STA. 38+00	TO STA. 61+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 BJ2	WILL	46	8
CONTRACT NO. 62T04			ILLINOIS FED. AID PROJECT	



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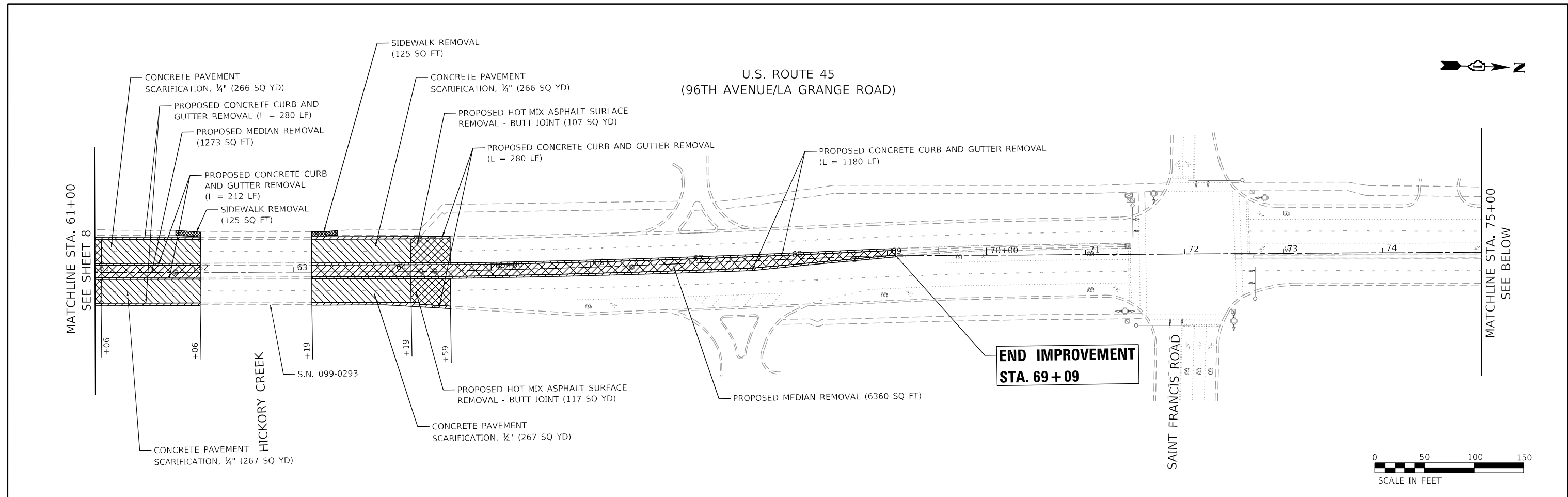
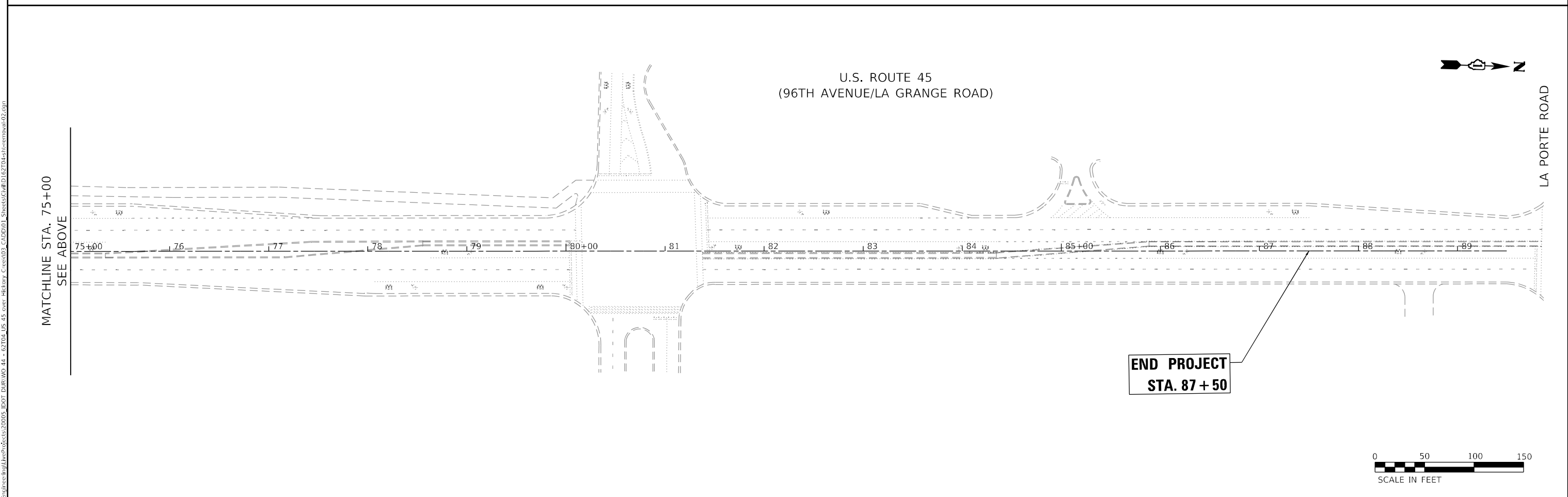


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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

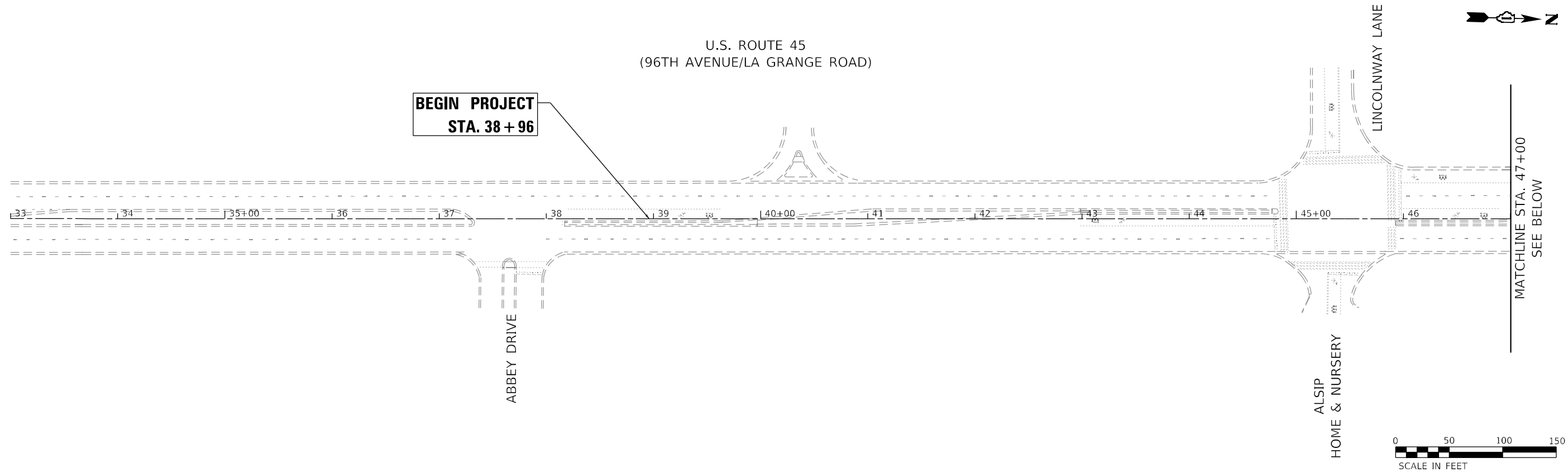
REMOVAL PLAN	
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK	
SCALE: 1" = 50'	SHEET 2 OF 2 SHEETS
STA. 61+00	TO STA. 87+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 BJ2	WILL	46	9
CONTRACT NO. 62T04				
ILLINOIS FED. AID PROJECT				



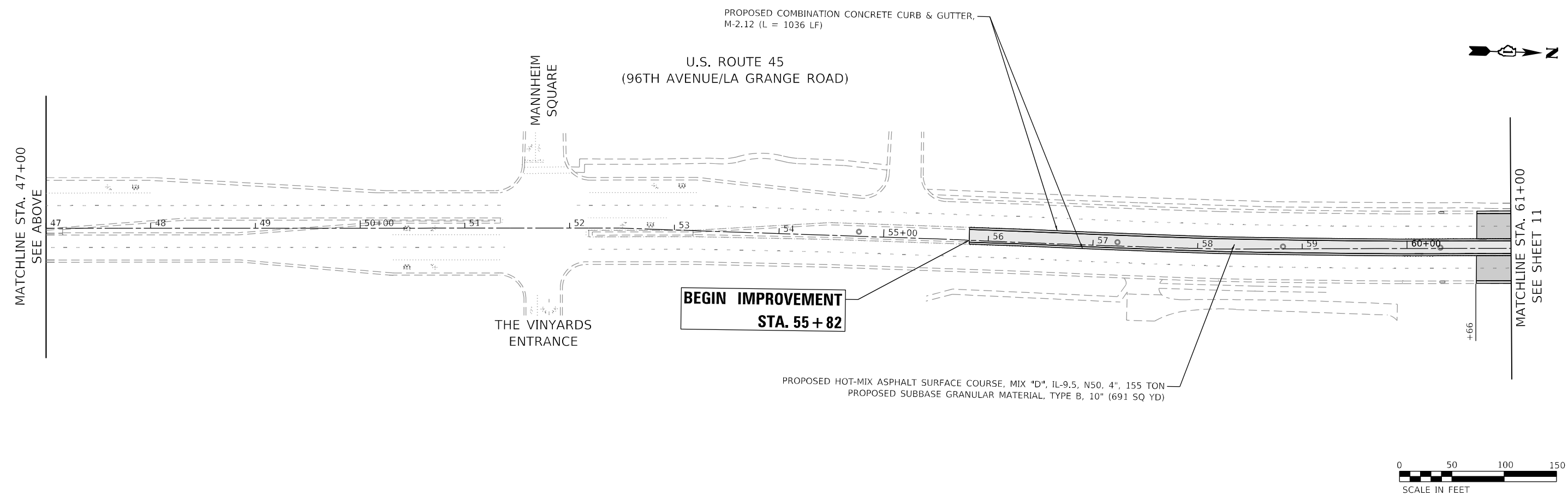
U.S. ROUTE 45
(96TH AVENUE/LA GRANGE ROAD)

**BEGIN PROJECT
STA. 38 + 96**



U.S. ROUTE 45
(96TH AVENUE/LA GRANGE ROAD)

**BEGIN IMPROVEMENT
STA. 55 + 82**



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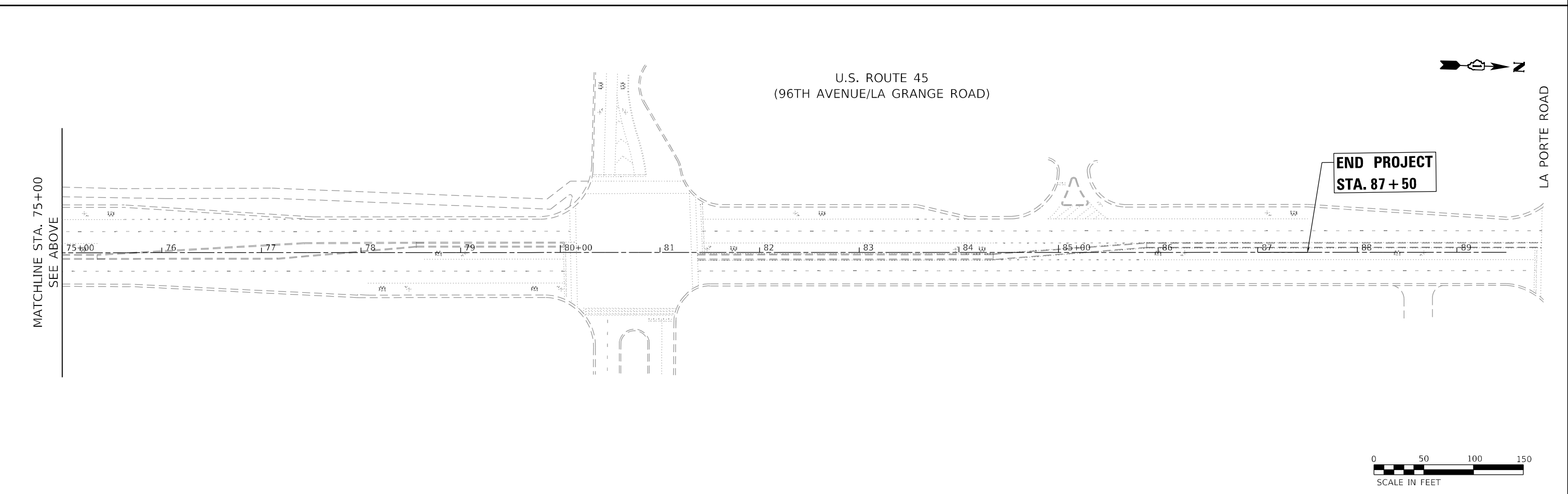
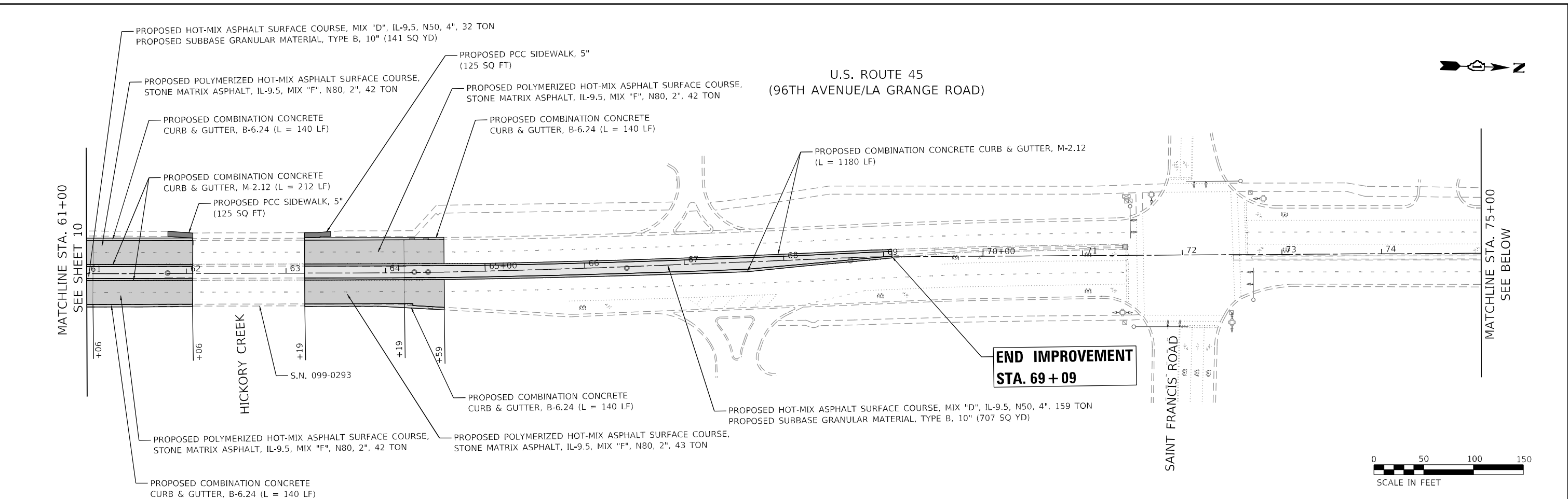
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PLOT DATE = 8/9/2024	DATE - 08/09/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED PLAN
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK
 SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. 38+00 TO STA. 61+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 BJ2	WILL	46	10
CONTRACT NO. 62T04				
ILLINOIS FED. AID PROJECT				

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PLOT SCALE = 100,0000' / in.	CHECKED - JJD	REVISED -
PLOT DATE = 8/9/2024	DATE - 08/09/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN
 BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK**

SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. 61+00 TO STA. 87+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 B12	WILL	46	11
CONTRACT NO. 62T04				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR KALPANA KANNAN-HOSADURGA, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING OF WORK.
2. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED STAGE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.
3. CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL TRAFFIC STAGE CHANGES ON EACH APPROACH OF THE EFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGN MESSAGES SHALL BE REVISED TWO WEEKS THEREAFTER WITH MESSAGES WARNING TRAFFIC OF POTENTIAL TRAFFIC DELAYS, QUEUEING AND/ OR WITH MESSAGES NOTIFYING TRAFFIC TO USE ALTERNATE ROUTES. THE SIGN LOCATIONS AND MESSAGES SHALL BE DETERMINED BY THE ENGINEER.
4. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEERING FOR APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES.
5. TEMPORARY PAVEMENT MARKING, TYPE IV, TAPE LOCATIONS NOTED IN THE PLANS SHALL BE PLACED THROUGHOUT THE TAPER AND ALONGSIDE THE ADJACENT WORK AREA WHERE THE CLOSURE TIME EXCEEDS 14 DAYS.
6. PAVEMENT MARKING TAPE, TYPE IV 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 UNDER TEMPORARY PAVEMENT MARKING - PAINT AT THE CONTRACT UNIT PRICE.
7. PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED ON ALL FINAL PAVEMENT SURFACES AND EXISTING PAVEMENT SURFACES TO REMAIN.
8. ALL EXISTING LANE LINE PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKER REFLECTORS LOCATED WITHIN TEMPORARY LANE CLOSURE TAPERS, LANE SHIFT TAPERS OR IN LOCATIONS THAT CONFLICT WITH THE TEMPORARY PAVEMENT MARKING TAPE USED FOR STAGING SHALL BE REMOVED VIA WATER BLASTING WITH VACUUM RECOVERY IF THE STAGING WILL REMAIN IN PLACE FOR MORE THAN 14 DAYS. THE EXISTING PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKER REFLECTORS THAT WERE REMOVED SHALL BE RESTORED IN KIND AFTER THE COMPLETION OF THE STAGING.
9. 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.
10. THE "ROAD CONSTRUCTION AHEAD" SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR WHEN NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.
11. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE AND EROSION CONTROL PROTECTION DURING ALL PHASES OF CONSTRUCTION.
12. TEMPORARY CONCRETE BARRIER SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 704 OF THE IDOT STANDARD SPECIFICATIONS. ALL TEMPORARY CONCRETE BARRIER APPROACH AND DEPARTING END UNITS SHALL BE ANCHORED TO THE PAVEMENT USING SIX ANCHOR PINS AS SHOWN IN IDOT STANDARD 704001. PINNING OF ADDITIONAL BARRIER UNITS WITH THREE ANCHOR PINS ON THE TRAFFIC SIDE HOLES WITHIN THE INSTALLATION SHALL BE REQUIRED WHEN EQUIPMENT, VEHICLES, MATERIALS, FIXED OBJECTS, OR A DROP-OFF IS LOCATED WITHIN 24" BEHIND THE BARRIER. THE 24" OF CLEAR PAVEMENT MEASUREMENT SHALL BE FROM THE BASE OF THE NON-TRAFFIC SIDE OF THE BARRIER. TRAFFIC SIDE PINNED BARRIER SHALL HAVE A MINIMUM OF 6" OF CLEAR PAVEMENT BEHIND THE BARRIER. WHERE BOTH PINNED AND UNPINNED BARRIER UNITS ARE USED IN A CONTINUOUS INSTALLATION, A TRANSITION SHALL BE PROVIDED BETWEEN THEM. THE TRANSITION FROM PINNED TO UNPINNED BARRIER SHALL CONSIST OF TWO ANCHOR PINS INSTALLED IN THE END HOLES ON THE TRAFFIC SIDE OF THE FIRST BARRIER BEYOND THE PINNED SECTION AND ONE ANCHOR PIN INSTALLED IN THE MIDDLE HOLE OF THE TRAFFIC SIDE OF THE SECOND BARRIER BEYOND THE PINNED SECTION. THE THIRD BARRIER BEYOND THE PINNED SECTION SHALL THEN BE UNPINNED.
13. DROP-OFFS ADJACENT TO THE TRAVEL LANE SHALL BE KEPT TO A MINIMUM. PROTECTION OF THE DROP-OFF SHALL BE ACCORDING TO THE IDOT BUREAU OF SAFETY PROGRAMS AND ENGINEERING, SAFETY ENGINEERING POLICY MEMORANDUM 4-21. TEMPORARY CONCRETE BARRIER WALL IS SHOWN ON THE PLANS WHERE THE DROP-OFF REQUIREMENTS FOR USING BARRICADES CANNOT BE MET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE DROP-OFFS ALONG THE REMAINING AREAS MEET THE OFFSET, HEIGHT, AND DURATION REQUIREMENTS TO USE BARRICADES. THIS MAY REQUIRE THE CONTRACTOR TO REPLACE OR PLACE SUFFICIENT MATERIAL IN THE EXCAVATION TO REDUCE THE DROP-OFF TO BE COMPLIANT WITH THE REQUIREMENTS FOR USE OF BARRICADES. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO COMPLY WITH THIS REQUIREMENT.
14. THE SIDEWALK ON ONLY ONE SIDE OF THE ROAD MAY BE CLOSED AT ANYTIME, WHILE THE SIDEWALK ON THE OPPOSITE SIDE OF THE ROAD SHALL REMAIN OPEN AND FULLY ACCESSIBLE. THE CONTRACTOR SHALL PLAN AND SCHEDULE ALL WORK RECORDED.

1

SUGGESTED SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC

THE FOLLOWING SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC IS SUGGESTED. VARIATIONS MAY BE MADE WITH THE APPROVAL OF THE ENGINEER. FOR EACH STAGE OF CONSTRUCTION, PROVIDE TRAFFIC CONTROL AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS. COORDINATE INSTALLATION OF TRAFFIC CONTROL DEVICES WITH THE EXISTING TRAFFIC PATTERNS AT THE ENDS OF THE PROJECT ALONG US ROUTE 45 AND IMPACTED CROSS STREETS. THE IMPROVEMENTS WILL BE CONSTRUCTED USING LANE CLOSURES AND CROSSOVERS PER THE PROJECT MAINTENANCE OF TRAFFIC PLANS DISTRICT ONE STANDARDS TC-10, TC-11, TC-13, TC-14, TC-22 AND TC-26, AND HIGHWAY STANDARDS 701101, 701426, 701601, 701606, 701611, 701701, 701801, 701901, AND 704001.

PRESTAGE

1. CONTRACTOR WILL UTILIZE IDOT HIGHWAY STANDARDS TO SETUP APPROACH SIGNS.
2. CONTRACTOR WILL UTILIZE IDOT HIGHWAY STANDARDS FOR SINGLE LANE CLOSURES TO CLOSE INSIDE LANES FOR NORTHBOUND AND SOUTHBOUND TRAFFIC. DURING THIS CLOSURE THE RAISED MEDIAN AND CURB AND GUTTER WILL BE REMOVED. TEMPORARY PAVEMENT WILL BE INSTALLED IN THE REMOVAL AREA.

STAGE 1

1. CONTRACTOR WILL REMOVE CONFLICTING PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKER REFLECTORS, THEN INSTALL TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES AS SHOWN ON MOT PLANS. DURING THIS STAGE TRAFFIC WILL BE SHIFTED EAST TO THE NORTHBOUND ROADWAY.
2. DURING THIS STAGE, THE CONTRACTOR WILL COMPLETE WEST SIDE STRUCTURAL REPAIRS INCLUDING BRIDGE DECK OVERLAY, JOINT REMOVAL AND REPLACEMENT, AND MILL AND OVERLAY OF THE APPROACH PAVEMENT AND HOT-MIX ASPHALT ROADWAY.

STAGE 2

1. CONTRACTOR WILL REMOVE CONFLICTING PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKER REFLECTORS, THEN INSTALL TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES AS SHOWN ON MOT PLANS. DURING THIS STAGE TRAFFIC WILL BE SHIFTED WEST TO THE SOUTHBOUND ROADWAY.
2. DURING THIS STAGE, THE CONTRACTOR WILL COMPLETE EAST SIDE STRUCTURAL REPAIRS INCLUDING BRIDGE DECK OVERLAY, JOINT REMOVAL AND REPLACEMENT, AND MILL AND OVERLAY OF THE APPROACH PAVEMENT AND HOT-MIX ASPHALT ROADWAY.

STAGE 3

1. CONTRACTOR WILL UTILIZE IDOT HIGHWAY STANDARDS TO REMOVE THE TEMPORARY PAVEMENT AND PAVEMENT MARKINGS, THEN INSTALL THE RAISED MEDIAN, AND CURB AND GUTTER, PERMANENT PAVEMENT MARKINGS, AND LANDSCAPING.
2. ONCE CONSTRUCTION IS COMPLETE AND PERMANENT PAVEMENT MARKINGS ARE INSTALLED, TEMPORARY TRAFFIC CONTROL DEVICES AND EROSION CONTROL DEVICES WILL BE REMOVED.

INTERSECTION FOR TEMPORARY TRAFFIC SIGNAL TIMING

TEMPORARY TRAFFIC SIGNAL TIMING WILL BE UTILIZED TO ADJUST EXISTING TRAFFIC SIGNAL TIMING THROUGHOUT THE DURATION OF THE STAGING TO ACCOMMODATE ADDITIONAL TRAFFIC VOLUME. THE FOLLOWING INTERSECTION WILL INCORPORATE TEMPORARY TRAFFIC SIGNAL TIMING:

1. LA GRANGE ROAD & LINCOLN-WAY LANE
2. LA GRANGE ROAD & ST. FRANCIS ROAD

1 REVISED SHEET 10/24/2024

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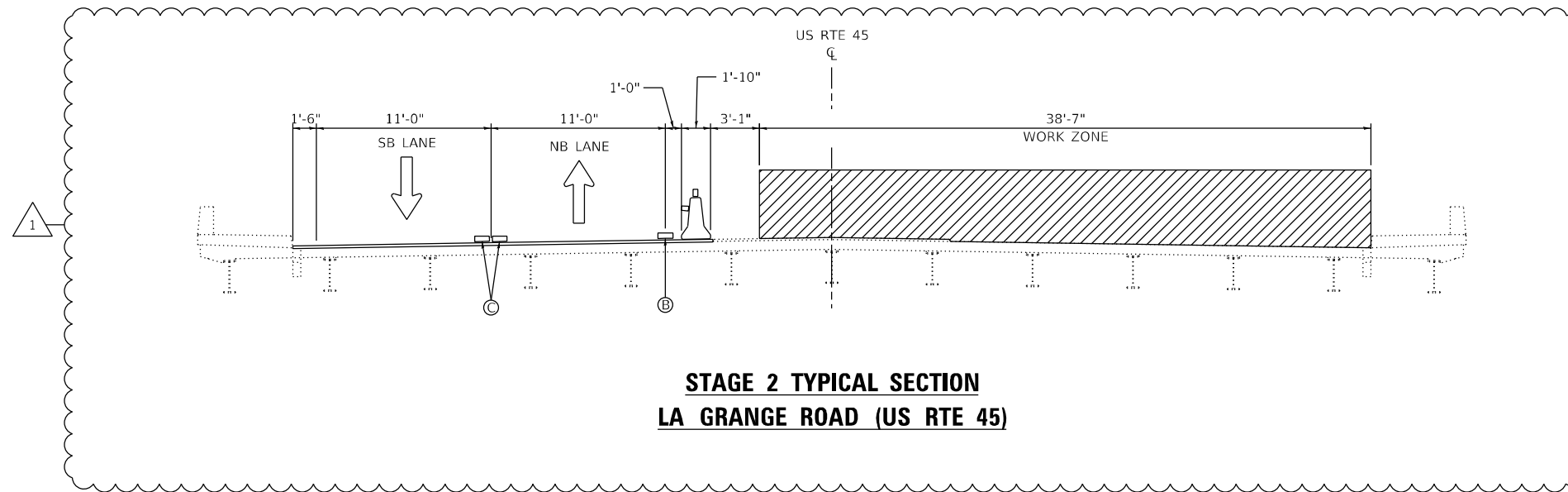
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

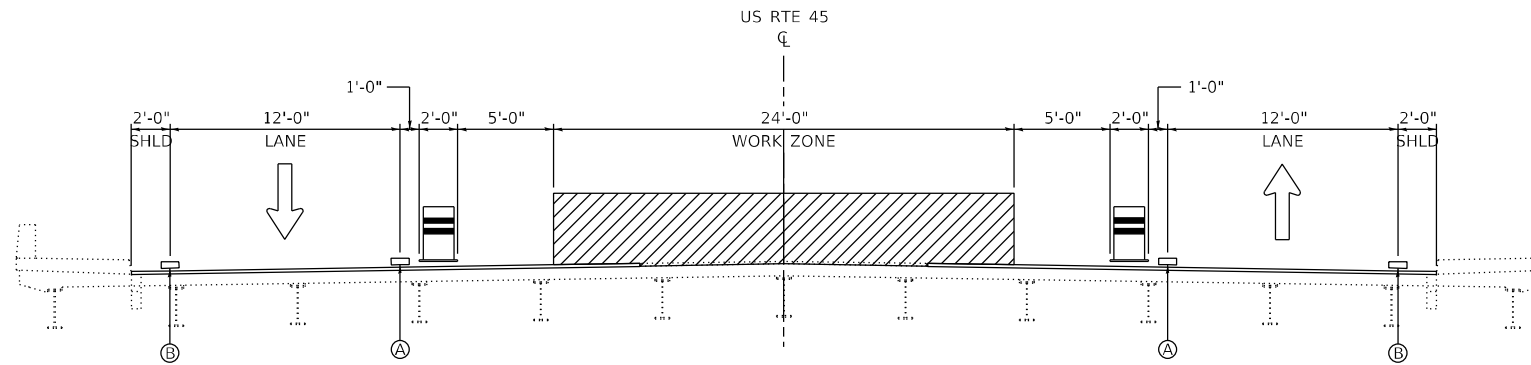
**MAINTENANCE OF TRAFFIC PLAN – GENERAL NOTES AND SEQUENCE
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK**

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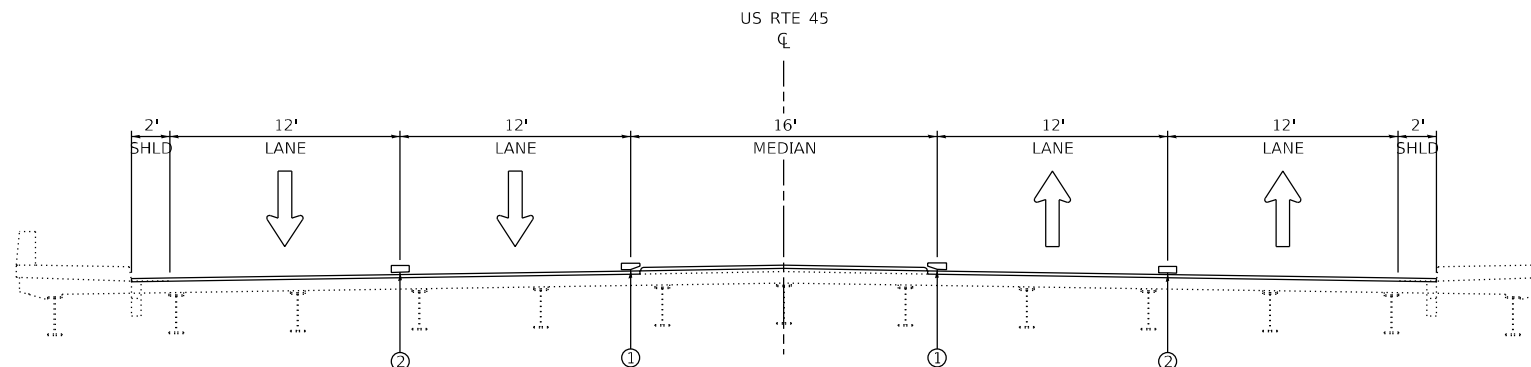
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 B/2	WILL	46	12
CONTRACT NO. 62T04				
ILLINOIS FED. AID PROJECT				



**STAGE 2 TYPICAL SECTION
LA GRANGE ROAD (US RTE 45)**



**STAGE 3 TYPICAL SECTION
LA GRANGE ROAD (US RTE 45)**



**PROPOSED TYPICAL SECTION
LA GRANGE ROAD (US RTE 45)**

LEGEND		
	WORKZONE	TEMPORARY PAVEMENT MARKING, TYPE IV TAPE OF THE WIDTH AND COLOR SPECIFIED:
	DIRECTION OF TRAFFIC	Ⓐ 4 INCH, YELLOW SOLID
	EXISTING PAVEMENT MARKING	Ⓑ 4 INCH, WHITE SOLID
	PROPOSED OR TEMPORARY PAVEMENT MARKING	Ⓒ 4 INCH, DOUBLE YELLOW CENTERLINE, 11" C-C
	DRUM OR TYPE II BARRICADE	Ⓓ 4 INCH, WHITE SOLID SKIP-DASH 10'-30'
	TEMPORARY CONCRETE BARRIER W/ MONO-DIRECTIONAL CRYSTAL, TYPE C REFLECTORS PER STD 704001 AND 782006	PERMANENT PAVEMENT MARKING, OF THE WIDTH AND COLOR SPECIFIED:
		① 4 INCH, YELLOW SOLID
		② 4 INCH, WHITE SOLID 10'-30' SKIP-DASH LINE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

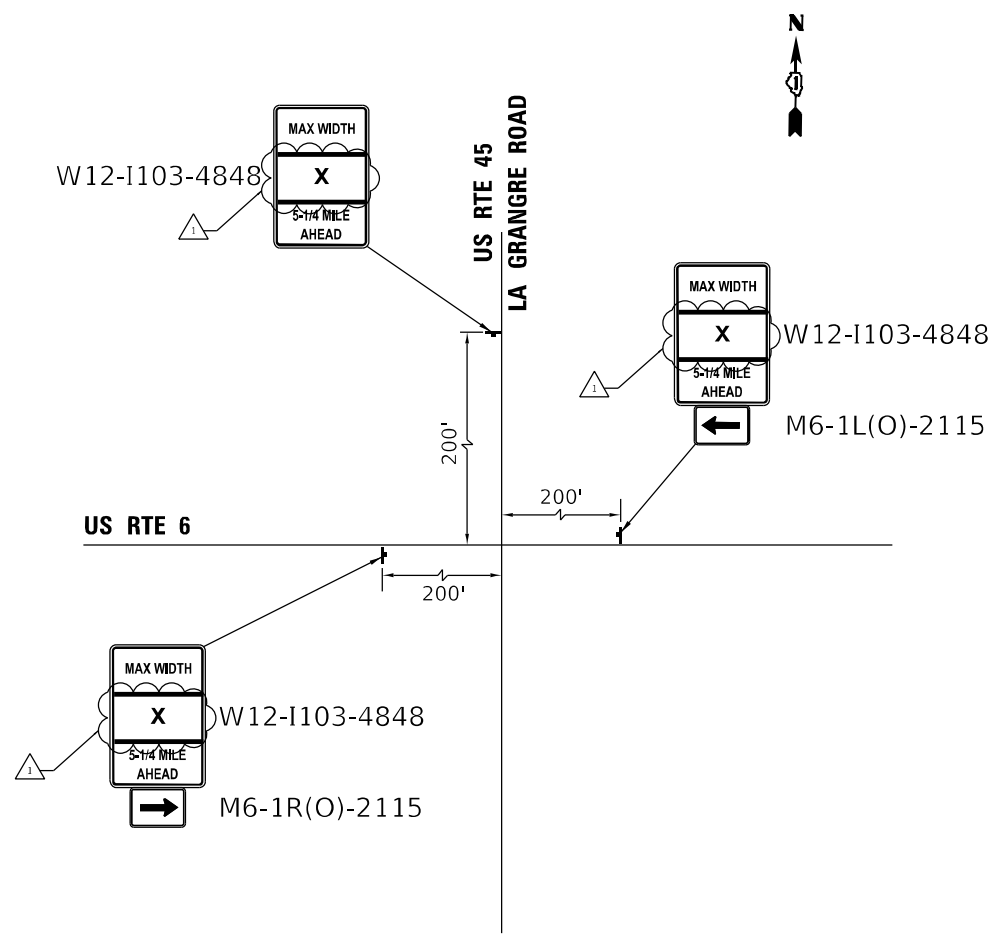
**MAINTENANCE OF TRAFFIC PLAN – STAGING TYPICAL SECTIONS
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK**

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

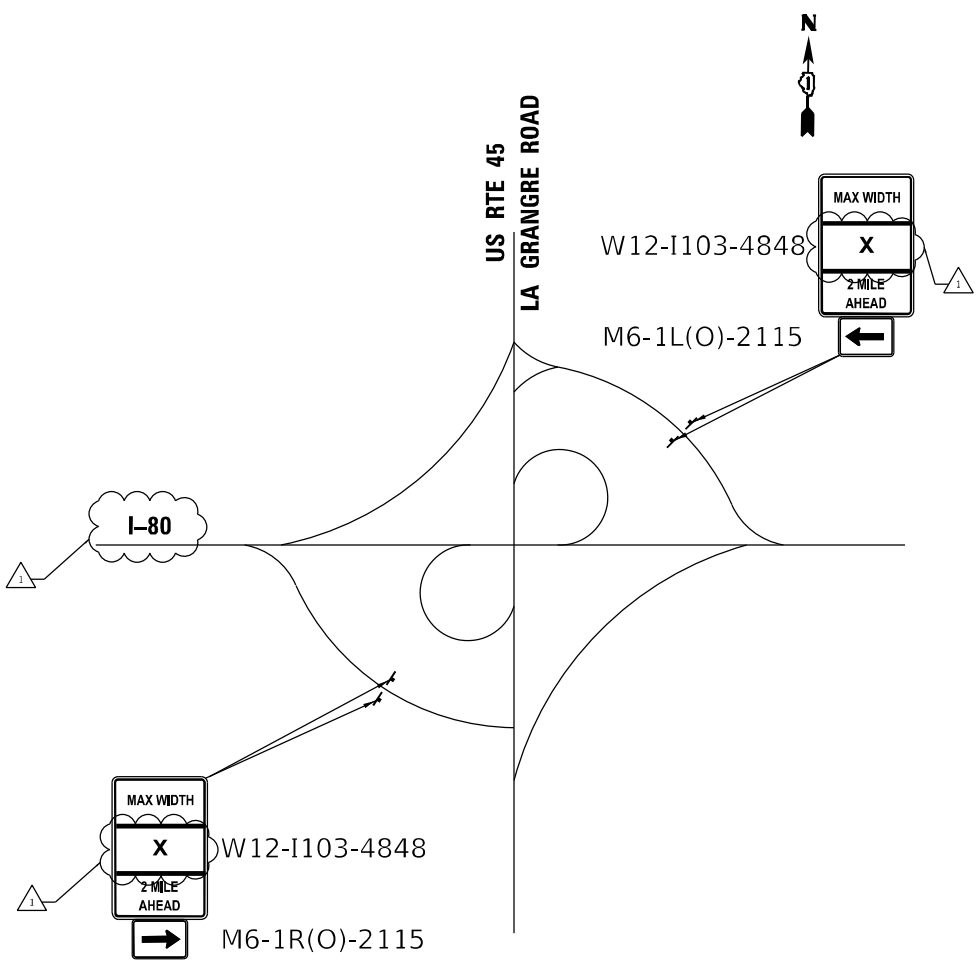
REVISED SHEET 10/24/2024

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62T04				
ILLINOIS FED. AID PROJECT				

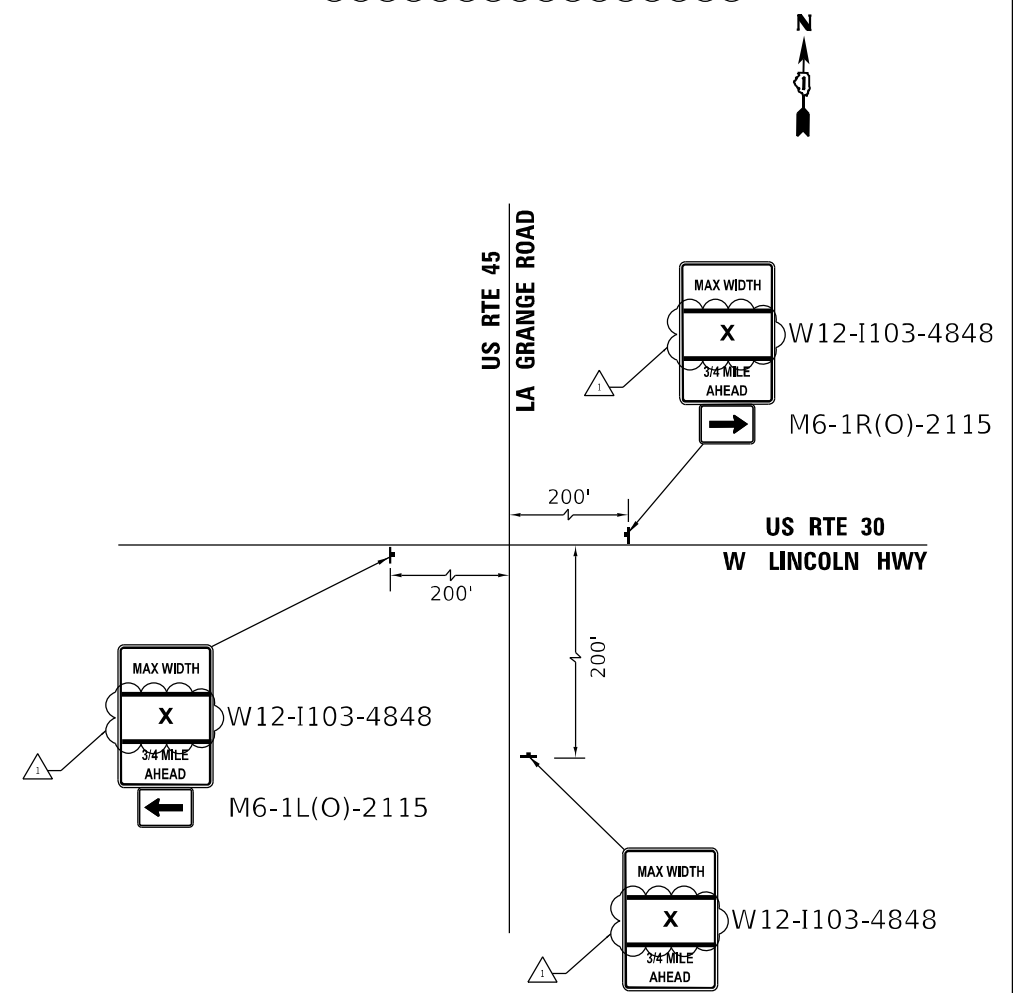
MAX WIDTH (X) PER STAGE	
PRESTAGE	11'-6"
STAGE I	10'-6"
STAGE II	10'-6"
STAGE III	11'-6"



ADVANCE WARNING SIGNS AT THE INTERSECTION OF LA GRANGE RD AND LAKE ST (US 20)
NTS



ADVANCE WARNING SIGNS AT THE INTERSECTION OF LA GRANGE RD AND I-80 INTERCHANGE
NTS



ADVANCE WARNING SIGNS AT THE INTERSECTION OF LA GRANGE ROAD AND W LINCOLN HWY
NTS

NOTES:

- 1. ADVANCE WARNING SIGNAGE SHALL BE INSTALLED AND LEFT IN PLACE UNTIL STAGE IS COMPLETE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN - ADVANCE WARNING SIGNAGE
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62T04

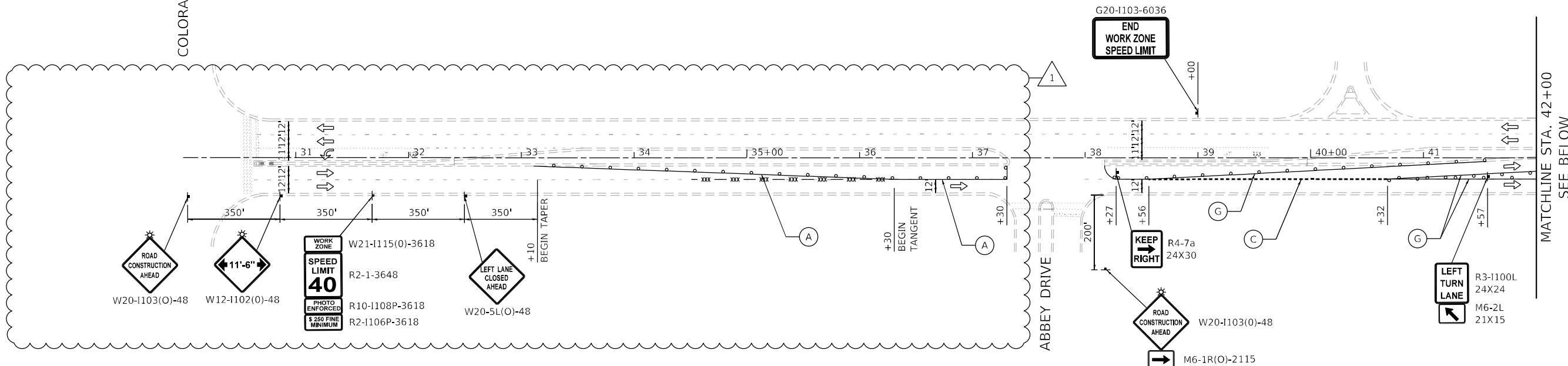
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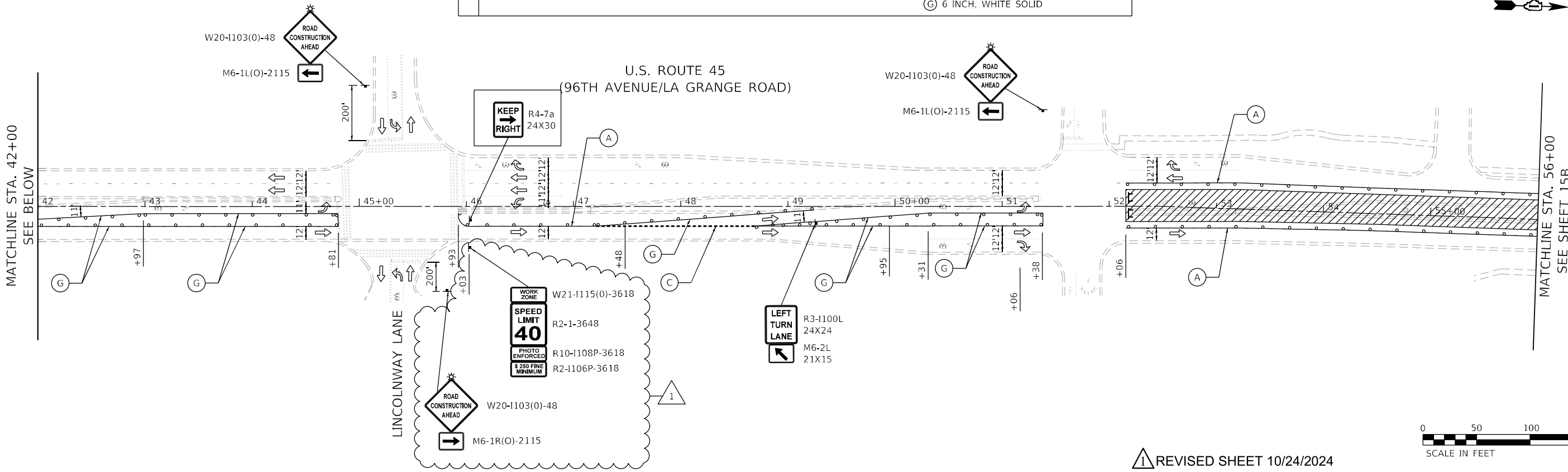
ILLINOIS FED. AID PROJECT

U.S. ROUTE 45
(96TH AVENUE/LA GRANGE ROAD)

COLORADO AVENUE



LEGEND		TEMPORARY PAVEMENT MARKING, TAPE, TYPE IV OF WIDTH AND COLOR SPECIFIED:
	WORK AREA	Ⓐ 4 INCH, YELLOW SOLID
	FLOW OF TRAFFIC	Ⓑ 4 INCH, WHITE SOLID
	TYPE III BARRICADE	Ⓒ 6 INCH, 2'-6" WHITE SKIP-DASH
	ARROW BOARD	Ⓓ 4 INCH, 10'-30" WHITE SKIP-DASH
	TEMPORARY PAVEMENT	Ⓔ 4 INCH, DOUBLE YELLOW CENTERLINE, 11" C-C
	DRUM OR TYPE II BARRICADE @ 50' C-C IN TANGENTS, 25' C-C IN TAPERS, AND 10' C-C IN RADII	Ⓕ LETTERS AND SYMBOLS
	TEMPORARY CONCRETE BARRIER W/ BARRIER WALL REFLECTORS, TYPE C	Ⓖ 6 INCH, WHITE SOLID
	SIGN ON PERMANENT OR TEMPORARY SUPPORT	
	- xxx - PAVEMENT MARKING REMOVAL - WATER BLASTING	



REVISED SHEET 10/24/2024

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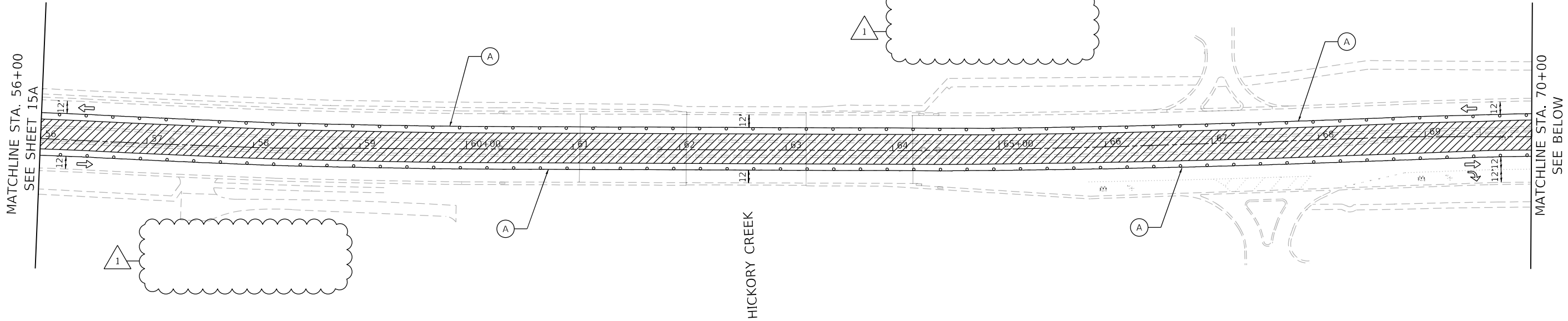
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	DATE - 08/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

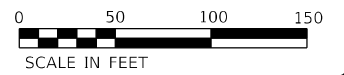
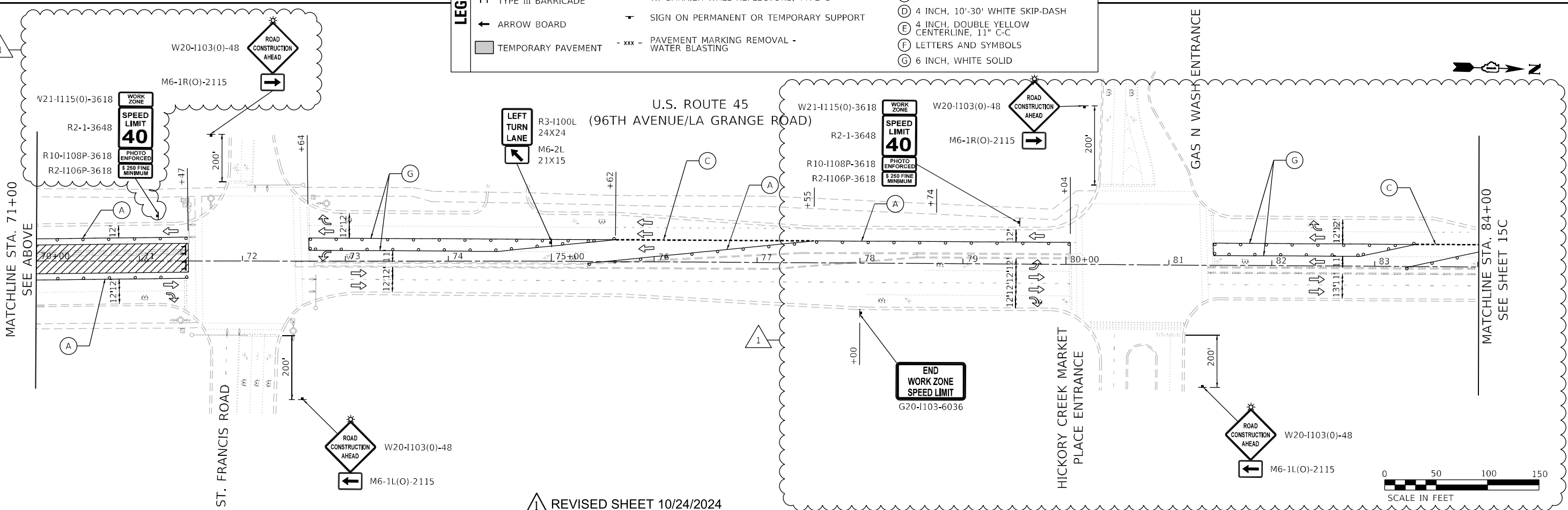
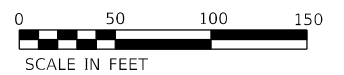
MAINTENANCE OF TRAFFIC PLAN - PRESTAGE/STAGE III
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK
SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. 38+00 TO STA. 61+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 BJ2	WILL	46	15A
				CONTRACT NO. 62T04
		ILLINOIS		FED. AID PROJECT

U.S. ROUTE 45
(96TH AVENUE/LA GRANGE ROAD)



LEGEND		TEMPORARY PAVEMENT MARKING, TAPE, TYPE IV OF WIDTH AND COLOR SPECIFIED:
	WORK AREA	(A) 4 INCH, YELLOW SOLID
	FLOW OF TRAFFIC	(B) 4 INCH, WHITE SOLID
	TYPE III BARRICADE	(C) 6 INCH, 2'-6" WHITE SKIP-DASH
	ARROW BOARD	(D) 4 INCH, 10'-30" WHITE SKIP-DASH
	TEMPORARY PAVEMENT	(E) 4 INCH, DOUBLE YELLOW CENTERLINE, 11" C-C
	DRUM OR TYPE II BARRICADE @ 50' C-C IN TANGENTS, 25' C-C IN TAPERS, AND 10' C-C IN RADII	(F) LETTERS AND SYMBOLS
	TEMPORARY CONCRETE BARRIER W/ BARRIER WALL REFLECTORS, TYPE C	(G) 6 INCH, WHITE SOLID
	SIGN ON PERMANENT OR TEMPORARY SUPPORT	
	- xxx - PAVEMENT MARKING REMOVAL - WATER BLASTING	



REVISED SHEET 10/24/2024

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 DRAWN - JLS
 CHECKED - JJD
 DATE - 08/09/2024
 REVISED -
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 REVISED -
 JJD 10/18/2024
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC PLAN - PRESTAGE/STAGE III
 BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK
 SCALE: 1" = 50'
 SHEET 2 OF 2 SHEETS
 STA. 61+00 TO STA. 84+00
 F.A.P. RTE. 330
 SECTION FAP 0330 22 BJ2
 COUNTY WILL
 TOTAL SHEETS 46
 SHEET NO. 15B
 CONTRACT NO. 62T04
 ILLINOIS FED. AID PROJECT



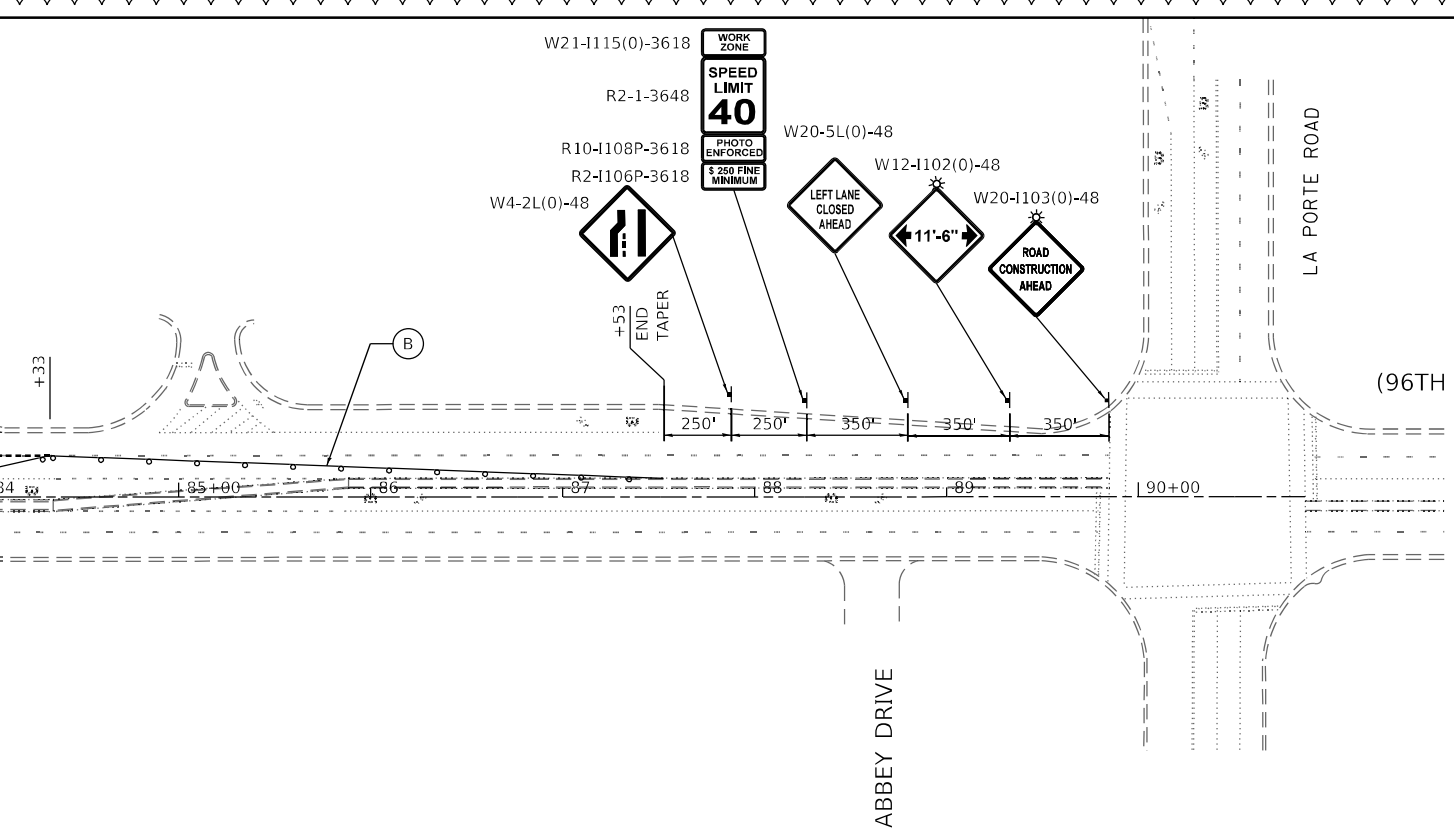
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PLOT DATE = 10/20/2024	CHECKED - JJD	REVISED -
	DATE - 08/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN - PRESTAGE/STAGE III
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK
SCALE: 1" = 50'
SHEET 2 OF 2 SHEETS
STA. 61+00 TO STA. 84+00

F.A.P. RTE. 330	SECTION FAP 0330 22 BJ2	COUNTY WILL	TOTAL SHEETS 46	SHEET NO. 15B
CONTRACT NO. 62T04				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 84+00
SEE SHEET 15B



LEGEND	WORK AREA	DRUM OR TYPE II BARRICADE @ 50' C-C IN TANGENTS, 25' C-C IN TAPERS, AND 10' C-C IN RADII	TEMPORARY PAVEMENT MARKING, TAPE, TYPE IV OF WIDTH AND COLOR SPECIFIED: (A) 4 INCH, YELLOW SOLID (B) 4 INCH, WHITE SOLID (C) 6 INCH, 2'-6" WHITE SKIP-DASH (D) 4 INCH, 10'-30' WHITE SKIP-DASH (E) 4 INCH, DOUBLE YELLOW CENTERLINE, 11" C-C (F) LETTERS AND SYMBOLS (G) 6 INCH, WHITE SOLID
	FLOW OF TRAFFIC	TEMPORARY CONCRETE BARRIER W/ BARRIER WALL REFLECTORS, TYPE C	
	TYPE III BARRICADE	SIGN ON PERMANENT OR TEMPORARY SUPPORT	
	ARROW BOARD	PAVEMENT MARKING REMOVAL - WATER BLASTING	
	TEMPORARY PAVEMENT		



1

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

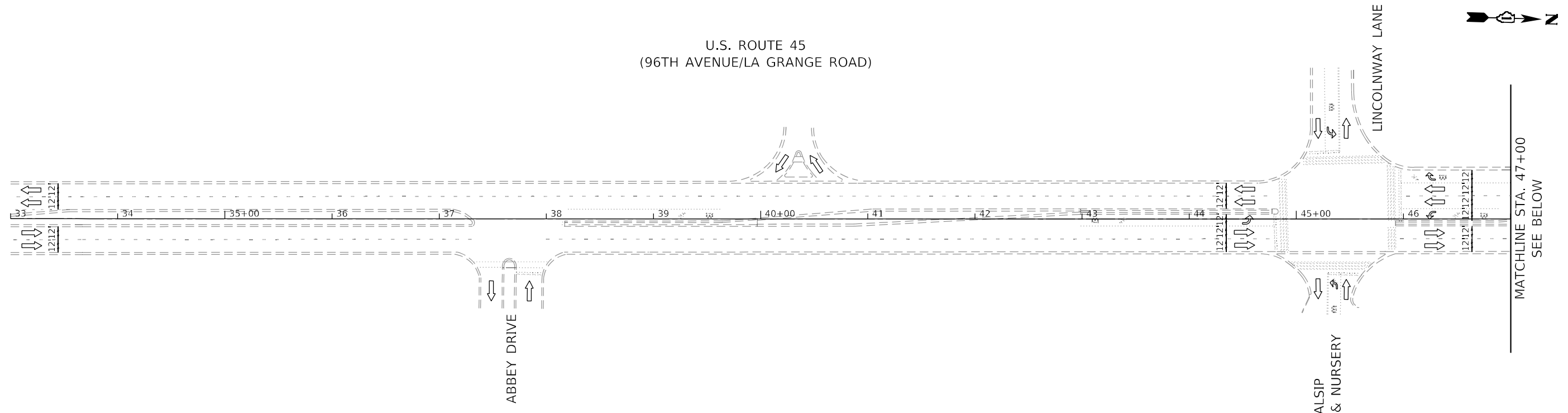
**MAINTENANCE OF TRAFFIC PLAN - PRESTAGE/STAGE III
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK**

SCALE: 1" = 50' SHEET 3 OF 2 SHEETS STA. 84+00 TO STA. #MOTIII03TO

ADDED ENTIRE SHEET 10/24/2024

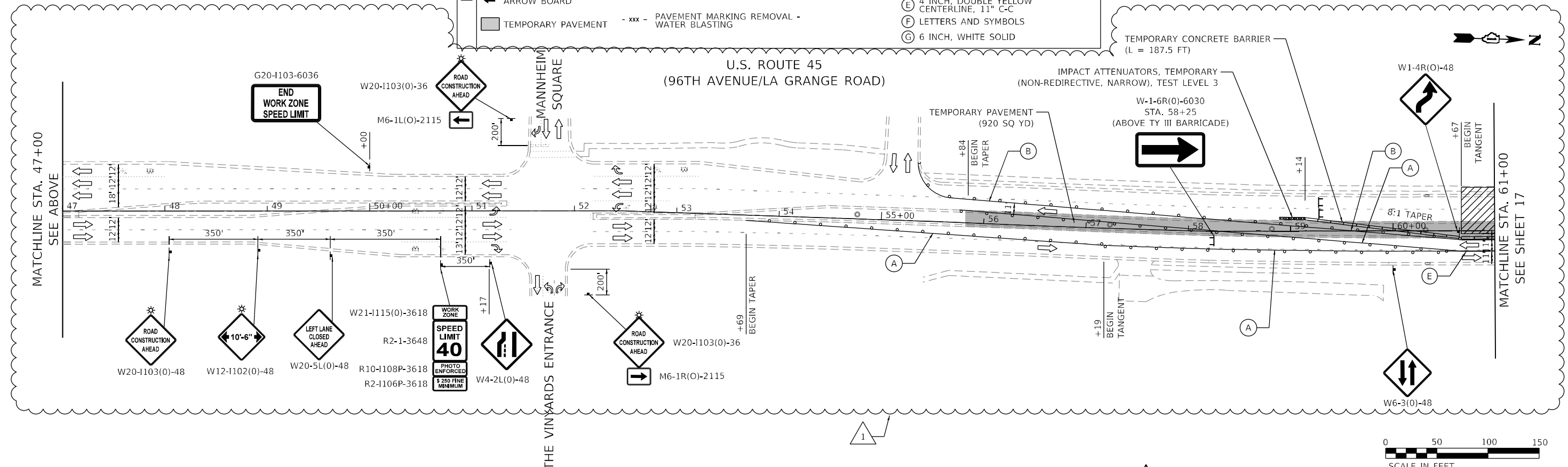
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 B/J2	WILL	46	15C
CONTRACT NO. 62T04				
ILLINOIS FED. AID PROJECT				

U.S. ROUTE 45
(96TH AVENUE/LA GRANGE ROAD)



LEGEND		TEMPORARY PAVEMENT MARKING, TAPE, TYPE IV OF WIDTH AND COLOR SPECIFIED:
	WORK AREA	(A) 4 INCH, YELLOW SOLID
	FLOW OF TRAFFIC	(B) 4 INCH, WHITE SOLID
	TYPE III BARRICADE	(C) 6 INCH, 2'-6" WHITE SKIP-DASH
	ARROW BOARD	(D) 4 INCH, 10'-30" WHITE SKIP-DASH
	TEMPORARY PAVEMENT	(E) 4 INCH, DOUBLE YELLOW CENTERLINE, 11" C-C
	DRUM OR TYPE II BARRICADE @ 50' C-C IN TANGENTS, 25' C-C IN TAPERS, AND 10' C-C IN RADII	(F) LETTERS AND SYMBOLS
	TEMPORARY CONCRETE BARRIER W/ BARRIER WALL REFLECTORS, TYPE C	(G) 6 INCH, WHITE SOLID
	SIGN ON PERMANENT OR TEMPORARY SUPPORT	
	PAVEMENT MARKING REMOVAL - WATER BLASTING	

U.S. ROUTE 45
(96TH AVENUE/LA GRANGE ROAD)



REVISOR'S MARK: REVISED SHEET 10/24/2024

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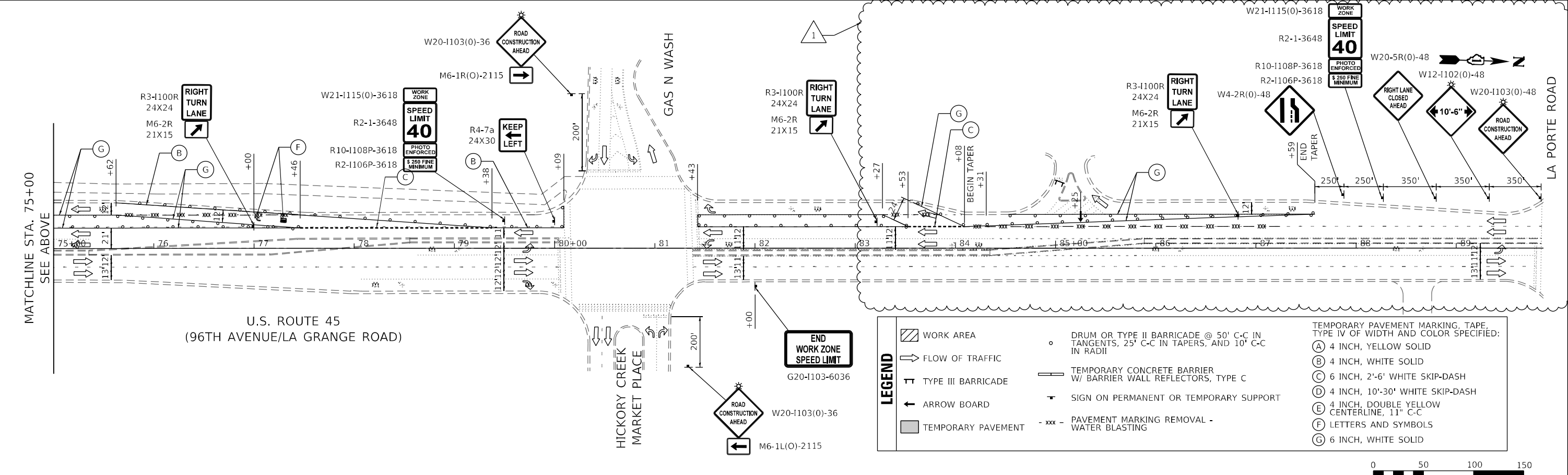
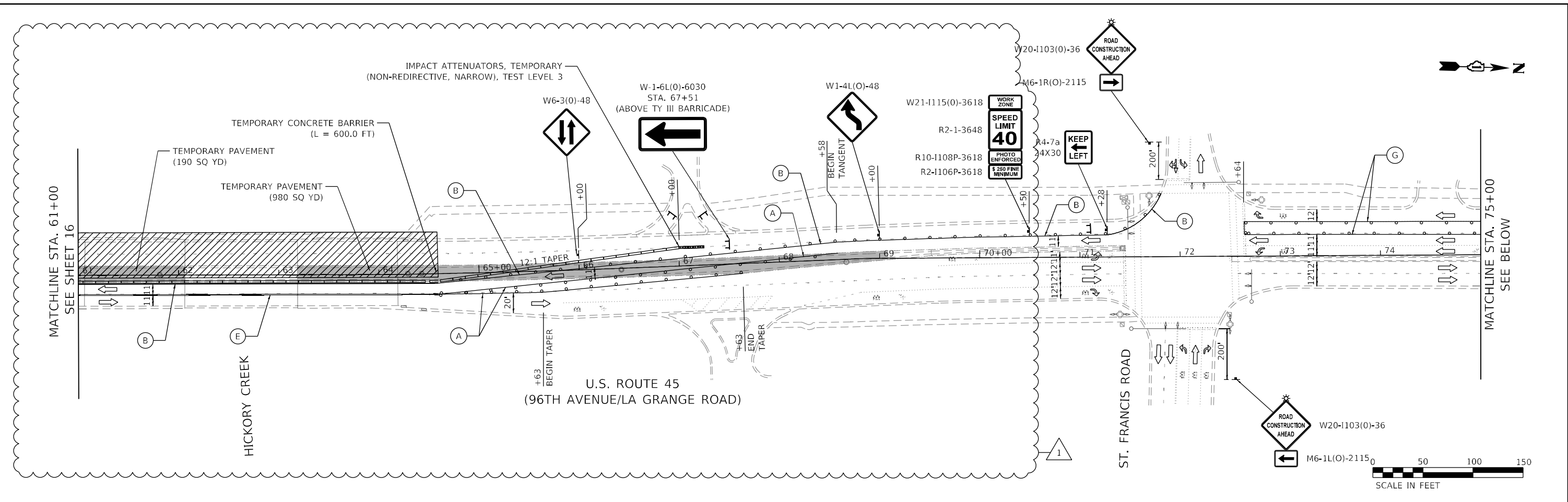
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	DATE - 08/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN - STAGE I	
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK	
SCALE: 1" = 50'	SHEET 1 OF 2 SHEETS
STA. 38+00	TO STA. 61+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 BJ2	WILL	46	16
CONTRACT NO. 62T04				
ILLINOIS FED. AID PROJECT				

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LEGEND

WORK AREA	DRUM OR TYPE II BARRICADE @ 50' C-C IN TANGENTS, 25' C-C IN TAPERS, AND 10' C-C IN RADI	TEMPORARY PAVEMENT MARKING, TAPE, TYPE IV OF WIDTH AND COLOR SPECIFIED:
FLOW OF TRAFFIC	TEMPORARY CONCRETE BARRIER W/ BARRIER WALL REFLECTORS, TYPE C	(A) 4 INCH, YELLOW SOLID
TYPE III BARRICADE	SIGN ON PERMANENT OR TEMPORARY SUPPORT	(B) 4 INCH, WHITE SOLID
ARROW BOARD	PAVEMENT MARKING REMOVAL - WATER BLASTING	(C) 6 INCH, 2'-6" WHITE SKIP-DASH
TEMPORARY PAVEMENT		(D) 4 INCH, 10'-30" WHITE SKIP-DASH
		(E) 4 INCH, DOUBLE YELLOW CENTERLINE, 11" C-C
		(F) LETTERS AND SYMBOLS
		(G) 6 INCH, WHITE SOLID

REVISOR SHEET 10/24/2024



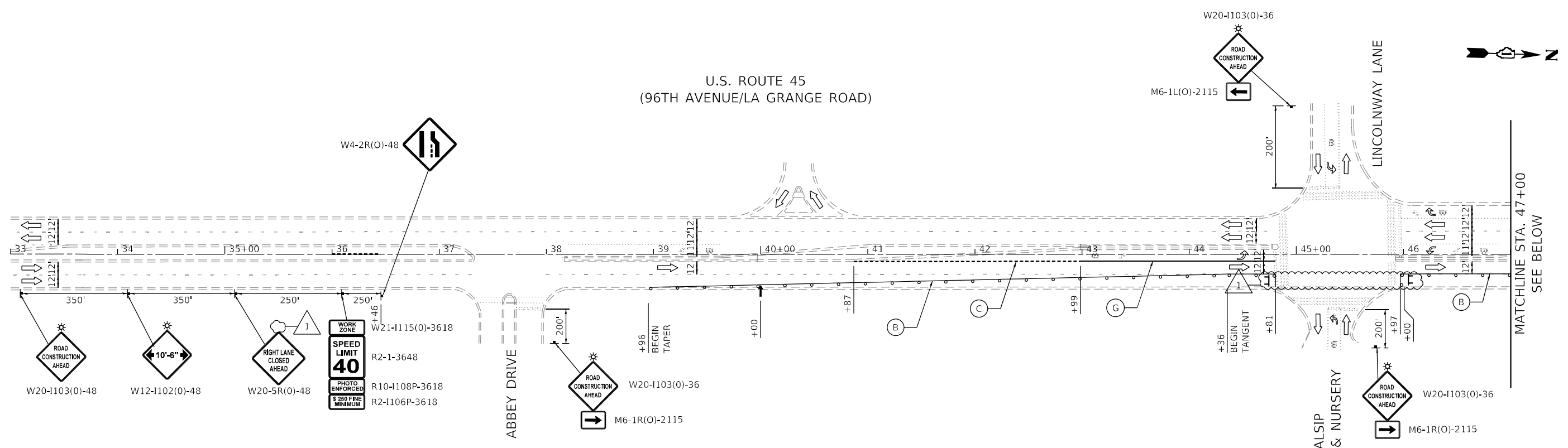
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	DATE - 08/09/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN - STAGE I
 BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK
 SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. 61+00 TO STA. 87+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 BJ2	WILL	46	17
CONTRACT NO. 62T04				
ILLINOIS FED. AID PROJECT				

U.S. ROUTE 45
(96TH AVENUE/LA GRANGE ROAD)

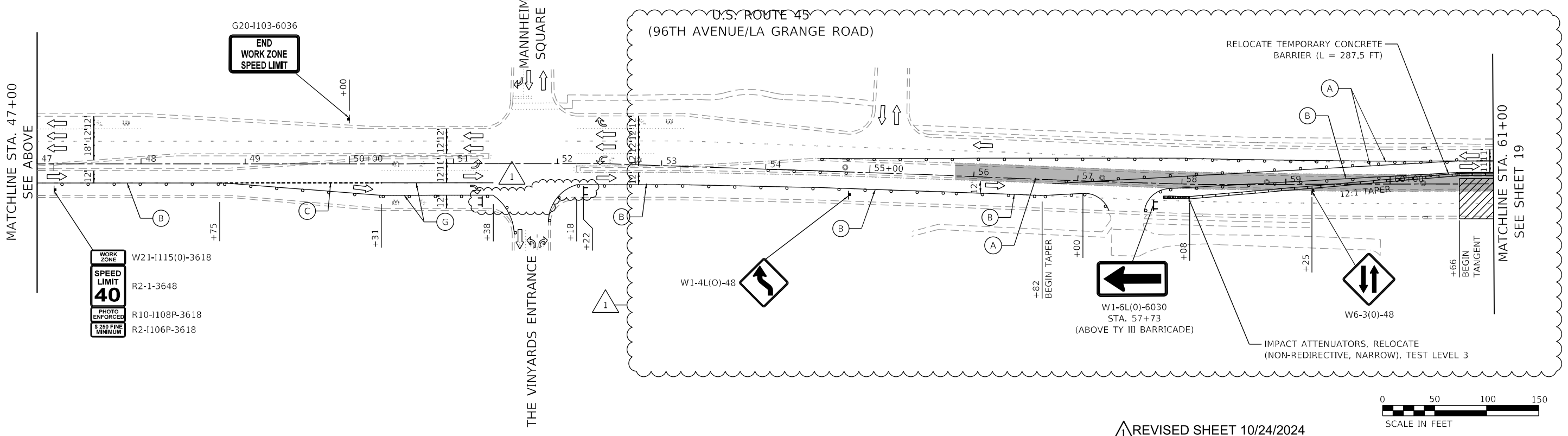


LEGEND

- WORK AREA
- FLOW OF TRAFFIC
- TYPE III BARRICADE
- ARROW BOARD
- TEMPORARY PAVEMENT
- DRUM OR TYPE II BARRICADE @ 50' C-C IN TANGENTS, 25' C-C IN TAPERS, AND 10' C-C IN RADII
- TEMPORARY CONCRETE BARRIER W/ BARRIER WALL REFLECTORS, TYPE C
- SIGN ON PERMANENT OR TEMPORARY SUPPORT
- PAVEMENT MARKING REMOVAL - WATER BLASTING

TEMPORARY PAVEMENT MARKING, TAPE, TYPE IV OF WIDTH AND COLOR SPECIFIED:

- (A) 4 INCH, YELLOW SOLID
- (B) 4 INCH, WHITE SOLID
- (C) 6 INCH, 2'-6" WHITE SKIP-DASH
- (D) 4 INCH, 10'-30' WHITE SKIP-DASH
- (E) 4 INCH, DOUBLE YELLOW CENTERLINE, 11" C-C
- (F) LETTERS AND SYMBOLS
- (G) 6 INCH, WHITE SOLID



REVISION 10/24/2024

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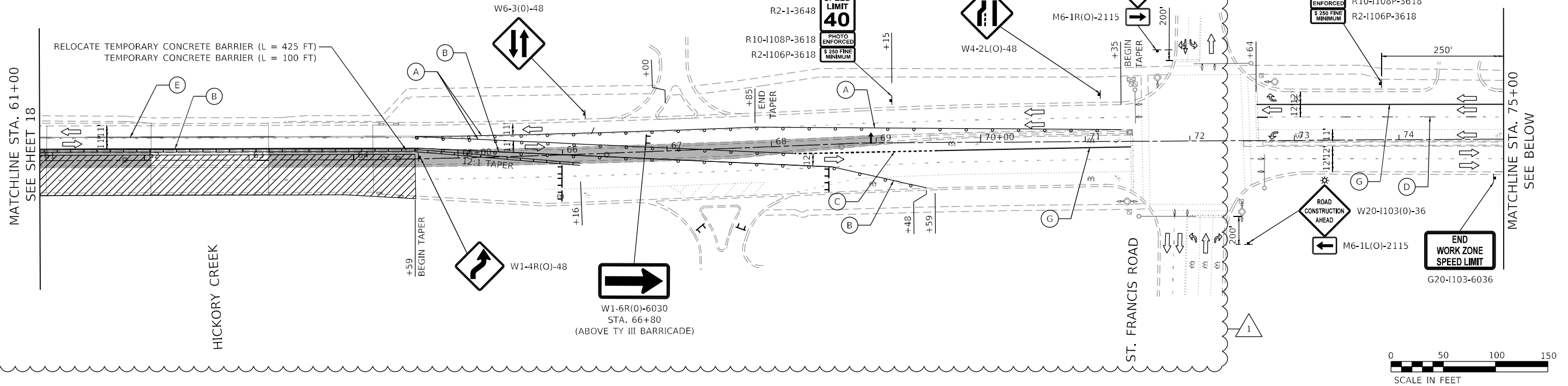
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

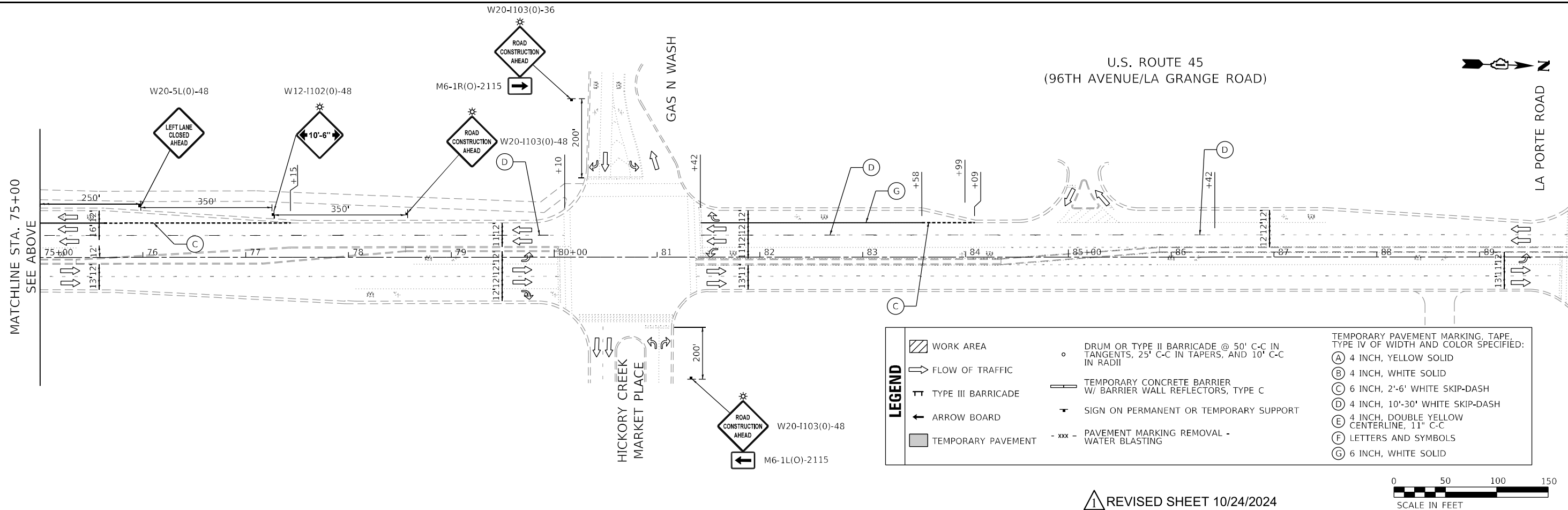
MAINTENANCE OF TRAFFIC PLAN - STAGE II
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK
SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. 38+00 TO STA. 61+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 BJ2	WILL	46	18
CONTRACT NO. 62T04				
ILLINOIS FED. AID PROJECT				

U.S. ROUTE 45
(96TH AVENUE/LA GRANGE ROAD)



U.S. ROUTE 45
(96TH AVENUE/LA GRANGE ROAD)



LEGEND	WORK AREA	DRUM OR TYPE II BARRICADE @ 50' C-C IN TANGENTS, 25' C-C IN TAPERS, AND 10' C-C IN RADII	TEMPORARY PAVEMENT MARKING, TAPE, TYPE IV OF WIDTH AND COLOR SPECIFIED:
	FLOW OF TRAFFIC	TEMPORARY CONCRETE BARRIER W/ BARRIER WALL REFLECTORS, TYPE C	(A) 4 INCH, YELLOW SOLID
TYPE III BARRICADE	ARROW BOARD	SIGN ON PERMANENT OR TEMPORARY SUPPORT	(B) 4 INCH, WHITE SOLID
TEMPORARY PAVEMENT	PAVEMENT MARKING REMOVAL - WATER BLASTING		(C) 6 INCH, 2'-6" WHITE SKIP-DASH
			(D) 4 INCH, 10'-30" WHITE SKIP-DASH
			(E) 4 INCH, DOUBLE YELLOW CENTERLINE, 11" C-C
			(F) LETTERS AND SYMBOLS
			(G) 6 INCH, WHITE SOLID

REVISED SHEET 10/24/2024

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 DATE: 10/21/2024



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PLOT DATE = 10/21/2024	CHECKED - JJD	REVISED -
	DATE - 08/09/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN – STAGE II
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK**

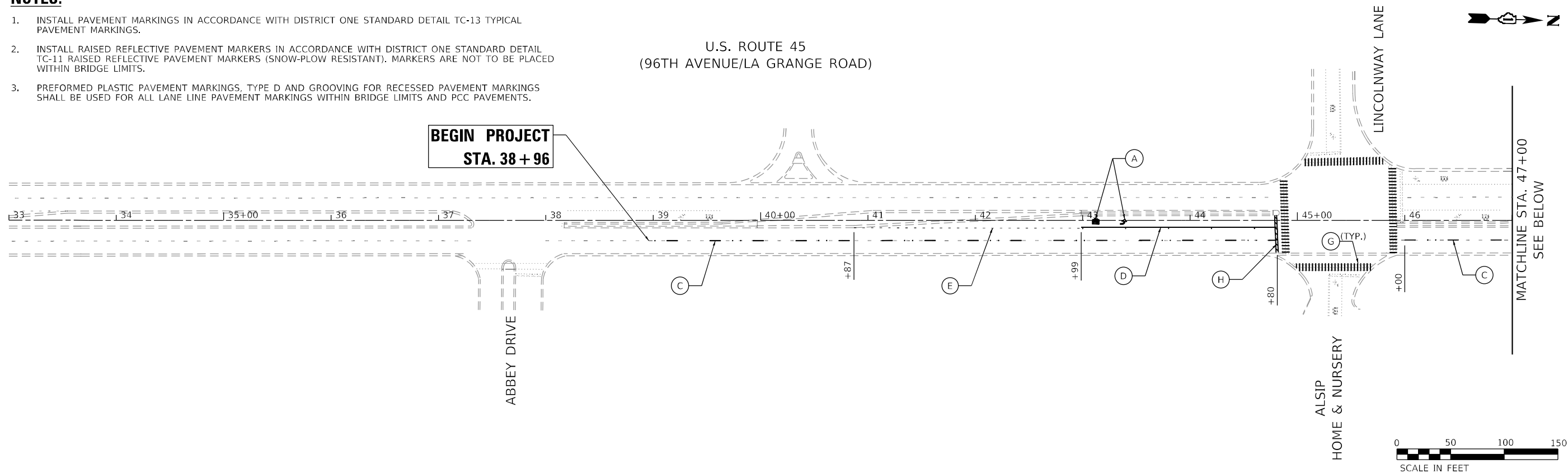
SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. 61+00 TO STA. 87+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 BJ2	WILL	46	19
CONTRACT NO. 62T04				
ILLINOIS FED. AID PROJECT				

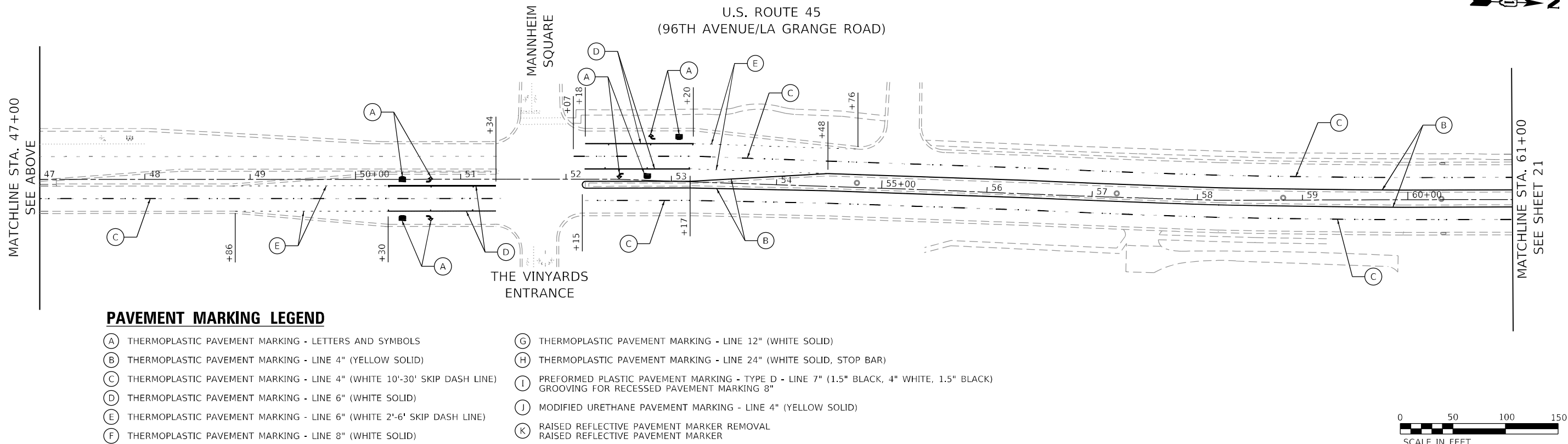
NOTES:

1. INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-13 TYPICAL PAVEMENT MARKINGS.
2. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT). MARKERS ARE NOT TO BE PLACED WITHIN BRIDGE LIMITS.
3. PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE D AND GROOVING FOR RECESSED PAVEMENT MARKINGS SHALL BE USED FOR ALL LANE LINE PAVEMENT MARKINGS WITHIN BRIDGE LIMITS AND PCC PAVEMENTS.

**U.S. ROUTE 45
(96TH AVENUE/LA GRANGE ROAD)**



**U.S. ROUTE 45
(96TH AVENUE/LA GRANGE ROAD)**



PAVEMENT MARKING LEGEND

- (A) THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- (B) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- (C) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP DASH LINE)
- (D) THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID)
- (E) THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6' SKIP DASH LINE)
- (F) THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)
- (G) THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID)
- (H) THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE SOLID, STOP BAR)
- (I) PREFORMED PLASTIC PAVEMENT MARKING - TYPE D - LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) GROOVING FOR RECESSED PAVEMENT MARKING 8"
- (J) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- (K) RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
RAISED REFLECTIVE PAVEMENT MARKER

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK**

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. 38+00 TO STA. 61+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 BJ2	WILL	46	20
CONTRACT NO. 62T04				
ILLINOIS FED. AID PROJECT				



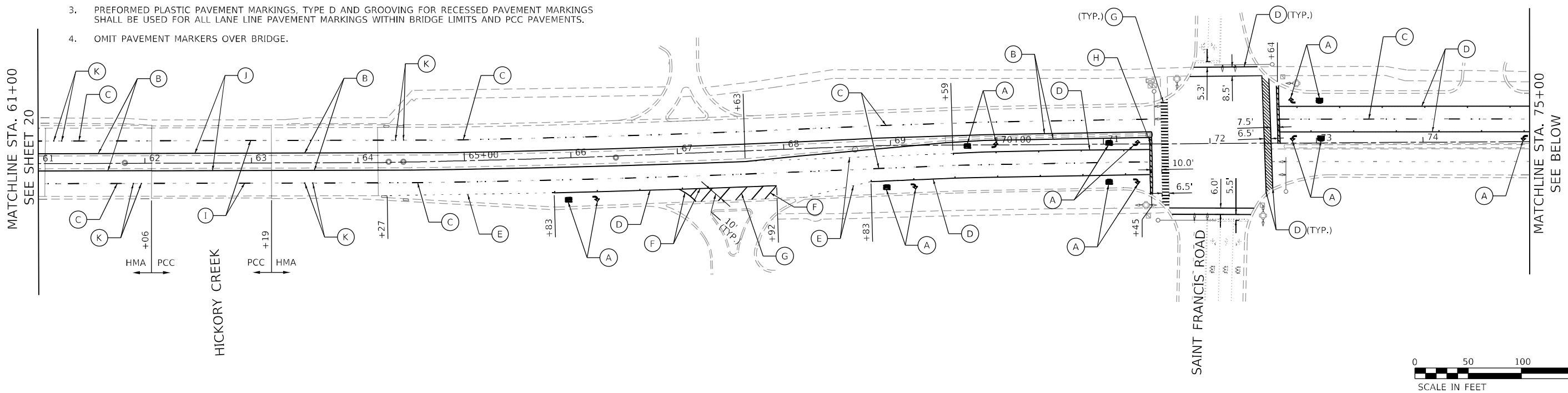
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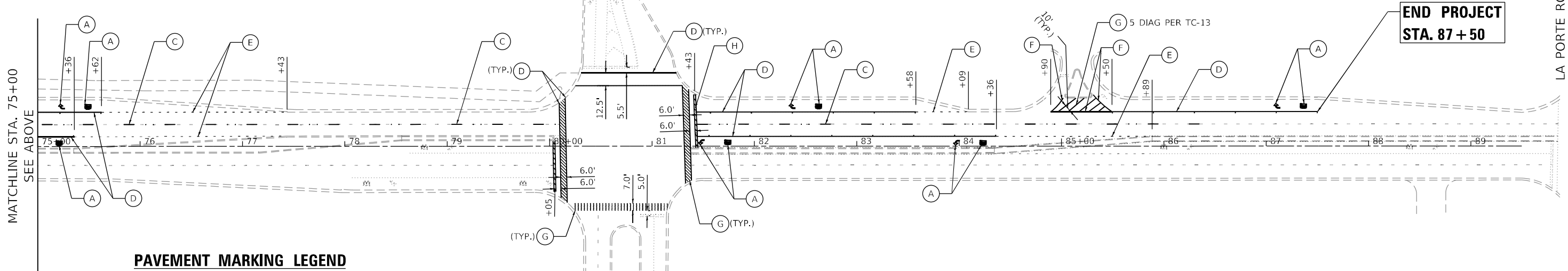
NOTES:

1. INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-13 TYPICAL PAVEMENT MARKINGS.
2. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT). MARKERS ARE NOT TO BE PLACED WITHIN BRIDGE LIMITS.
3. PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE D AND GROOVING FOR RECESSED PAVEMENT MARKINGS SHALL BE USED FOR ALL LANE LINE PAVEMENT MARKINGS WITHIN BRIDGE LIMITS AND PCC PAVEMENTS.
4. OMIT PAVEMENT MARKERS OVER BRIDGE.

U.S. ROUTE 45
(96TH AVENUE/LA GRANGE ROAD)



U.S. ROUTE 45
(96TH AVENUE/LA GRANGE ROAD)



PAVEMENT MARKING LEGEND

- | | |
|---|--|
| (A) THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | (G) THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID) |
| (B) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID) | (H) THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE SOLID, STOP BAR) |
| (C) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP DASH LINE) | (I) PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE D - LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) GROOVING FOR RECESSED PAVEMENT MARKING 8" |
| (D) THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID) | (J) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW SOLID) |
| (E) THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP DASH LINE) | (K) RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
RAISED REFLECTIVE PAVEMENT MARKER |
| (F) THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID) | |

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USER NAME = default	DESIGNED - JLS	REVISED -
DRAWN - JLS	REVISED -	
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PLOT DATE = 8/16/2024	DATE - 08/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN	
BRIDGE REPAIRS AT US 45 (96TH AVE) OVER HICKORY CREEK	
SCALE: 1" = 50'	SHEET 2 OF 2 SHEETS
STA. 61+00	TO STA. 87+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 B12	WILL	46	21
CONTRACT NO. 62T04				
ILLINOIS FED. AID PROJECT				

Existing Structure: The Structure was built in 1990, under Contract No. 80482 and is a 2-span, continuous steel stringer/multi-beam bridge with a 7½" concrete deck, 80'-0" out-to-out width, and 115'-6" back-to-back of abutments. The substructure consists of reinforced concrete abutments and one pier supported over HP Piles.

Traffic will be maintained utilizing staged construction.

No salvage.

LOADING (1990)

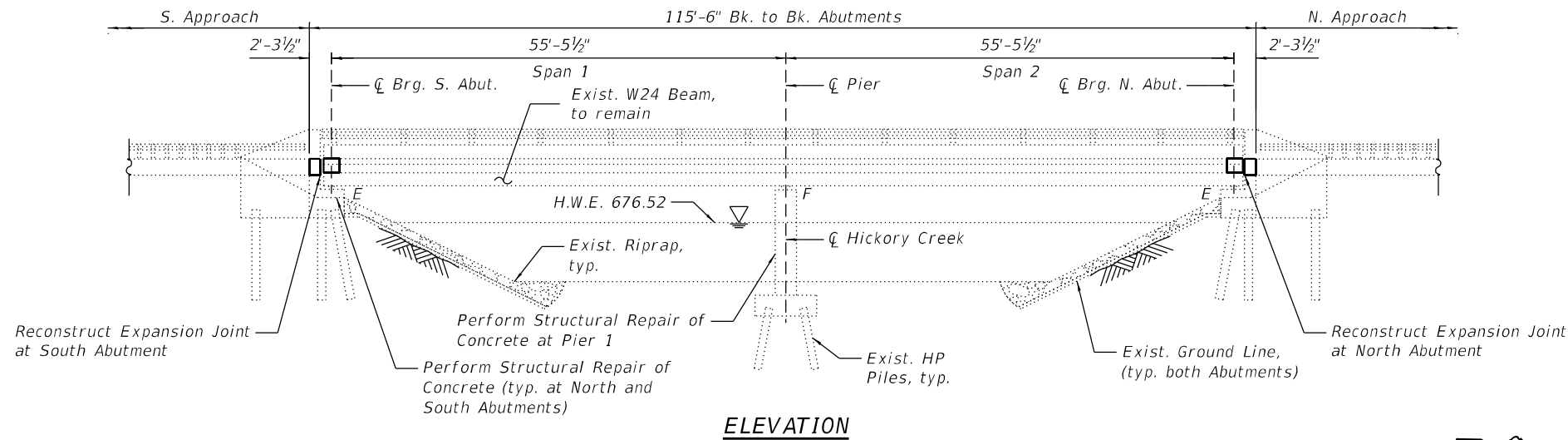
HS-20
Future Wearing
Surface = 25 psf

DESIGN SPECIFICATIONS

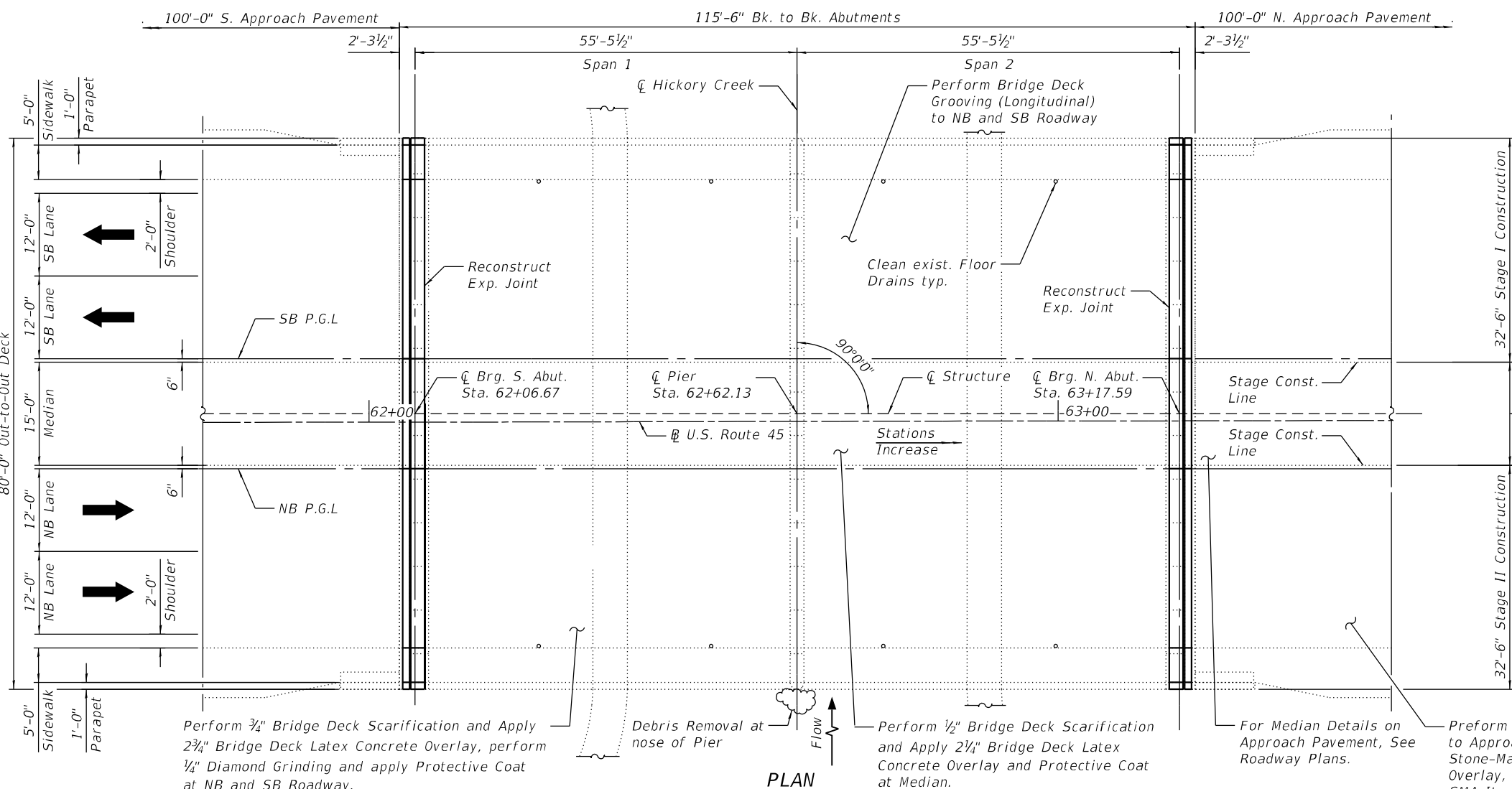
Reconstruction 1990
2002 AASHTO Standard
Specifications for Highway Bridges

DESIGN STRESSES

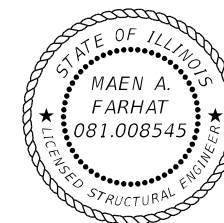
f'c = 4,000 psi (Superstructure)
fy = 60,000 psi (Reinforcement)



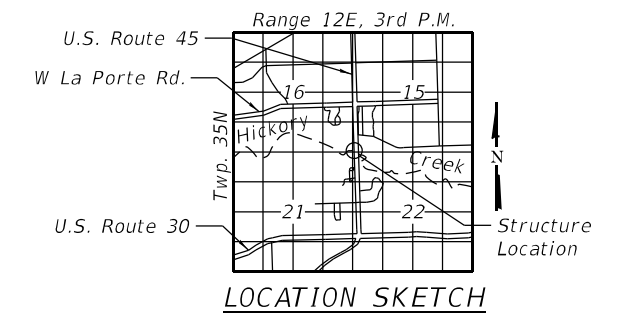
ELEVATION



PLAN



Signed: *Maen Farhat*
MAEN A. FARHAT, SE
IL Lic. No. 081-008545
Expires: 11/30/2024



LOCATION SKETCH

**GENERAL PLAN AND ELEVATION
U.S. 45 OVER HICKORY CREEK
F.A.P. 0330 SECTION 0330-22-BJ2
COOK COUNTY
STATION: 62+62.13
S.N. 099-0293**

Perform ¾" Bridge Deck Scarification and Apply 2¾" Bridge Deck Latex Concrete Overlay, perform ¼" Diamond Grinding and apply Protective Coat at NB and SB Roadway.

Debris Removal at nose of Pier

Perform ½" Bridge Deck Scarification and Apply 2¼" Bridge Deck Latex Concrete Overlay and Protective Coat at Median.

For Median Details on Approach Pavement, See Roadway Plans.

Perform Partial Depth Repair to Approach Slab and apply 2" Stone-Matrix Asphalt (SMA) Overlay, typ. both ends. For SMA Items, See Roadway Plans.

MODEL: Default
FILE NAME: O:\Engineering\live\projects\2005_IDOT DURWO 44 - 62T04_US 45 over Hickory Creek\03_CADD\01_Sheets\Structure\0590293-62T04-001-GPE.dgn



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	CHECKED - MAF	REVISED -
PLOT SCALE	DRAWN - IH	REVISED -
PLOT DATE	CHECKED - MAF	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STRUCTURE NO. 099-0293

SHEET SA-01 OF SA-16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	0330-22-BJ2	COOK	46	22
CONTRACT NO. 62T04				

ILLINOIS FED. AID PROJECT

GENERAL NOTES

- Reinforcement bars designated (E) shall be epoxy coated.
- Plan dimensions and details relative to the existing structure have been taken from 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.
- Bars indicated thus, 3x2-#5, indicates 3 lines of #5 bars with 2 lengths of bar per line.
- All exposed concrete edges shall have a 3/4"x45° chamfer, except where shown otherwise.
- Existing reinforcement extended into the removal area shall be cleaned, straightened and incorporated into the new construction cost is included with concrete removal. Any reinforcement bars that are damaged during concrete removal operations shall be replaced using an approved bar splicer or anchorage system at the Contractor's expense.
- For SMA overlay on Approach slab, see Roadway plans.
- Protective Coat shall be applied to the top and inside face of parapets, reconstructed transverse Expansion Joints and to the surface of the new Latex Concrete overlay.
- Joint openings shall be adjusted according to Article 520.04 of the Standard Specification when the deck is poured at an ambient temperature other than 50° F.
- Prior to pouring the new concrete deck for Expansion Joints Reconstruction and Deck slab repairs, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC-SP3 Standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications. As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding 1/4 in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
- The contractor shall exercise extreme caution during concrete removal to avoid damaging the steel beams and diaphragms to remain. Any damage to the existing steel beams and/or diaphragms to remain caused by the contractor in the performance of his/her work shall be repaired by the contractor, to the satisfaction of the engineer at no cost to the Department.
- Concrete Sealer shall be applied to the designated areas of the abutments and piers.
- Up to 1/4" may be ground off bridge deck.
- Due to the maintenance of traffic's configuration, the contractor shall install preformed joint sealant within limits of Stage II after concrete is poured and cured. The contractor shall continue to install preformed joint sealant within the limits of stage III. The remaining portion of the preformed joint sealant shall be installed using temporary lane closures.

INDEX OF SHEETS

- SA-01 General Plan & Elevation
- SA-02 General Notes, Index of Sheets & TBOM
- SA-03 Stage Construction (Sheet 1 of 2)
- SA-04 Stage Construction (Sheet 2 of 2)
- SA-05 Stage Construction (Sheet 3 of 3)
- SA-06 Temporary Concrete Barrier
- SA-07 Deck and Approach Repair Plan
- SA-08 Abut. Jt. Rem. & Replacement (Sheet 1 of 3)
- SA-09 Abut. Jt. Rem. & Replacement (Sheet 2 of 3)
- SA-10 Abut. Jt. Rem. & Replacement (Sheet 3 of 3)
- SA-11 Preformed Jt. Strip Seal (Sheet 1 of 3)
- SA-12 Preformed Jt. Strip Seal (Sheet 2 of 3)
- SA-13 Preformed Jt. Strip Seal (Sheet 3 of 3)
- SA-14 North & South Abutment Repairs
- SA-15 Pier Repairs
- SA-16 Bar Splicer Assembly Details

SCOPE OF WORK

- Scarify 1/2" from the bridge deck median.
- Scarify 3/4" from the bridge deck slab.
- Perform Deck Slab Repairs.
- Remove and Reconstruct Expansion joints at North and South abutments and install new Preformed Joint Strip Seals.
- Apply 2 3/4" Bridge Deck Latex Concrete Overlay on Bridge Deck, 2 1/4" Bridge Deck Latex Concrete Overlay on Bridge Deck Median and 2" Stone-Matrix Asphalt (SMA) Overlay on the Approach Pavement (See roadway plans).
- Perform 1/4" Diamond Grinding to top of bridge deck and abutment hatched block.
- Perform Bridge Deck Grooving (Longitudinal) on traffic lanes.
- Apply Protective Coat to the top and inside faces of parapets, sidewalks, median, reconstructed transverse Expansion Joints and to the surface of Latex Concrete Overlay.
- Perform structural concrete repairs to abutments and pier, as noted on plans.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu Yd	23.5	-	23.5
Concrete Superstructure	Cu Yd	26.5	-	26.5
Protective Coat	Sq Yd	1,066	-	1,066
Reinforcement Bars, Epoxy Coated	Pound	2,640	-	2,640
Bar Splicers	Each	44	-	44
Preformed Joint Strip Seal	Foot	160	-	160
Floor Drains to be Cleaned	Each	8	-	8
Bridge Deck Grooving (Longitudinal)	Sq Yd	598	-	598
Approach Slab Repair (Partial Depth)	Sq Yd	8	-	8
Bridge Deck Latex Concrete Overlay, 2 1/4"	Sq Yd	181	-	181
Bridge Deck Latex Concrete Overlay, 2 3/4"	Sq Yd	637	-	637
Bridge Deck Scarification 3/4"	Sq Yd	637	-	637
Bridge Deck Scarification 1/2"	Sq Yd	181	-	181
Structural Repair of Concrete (Depth Equal to or less than 5")	Sq Ft	-	89.5	89.5
Debris Removal	L Sum	-	1.0	1.0
Deck Slab Repair (Full Depth, Type II)	Sq Yd	25.0	-	25.0
Diamond Grinding (Bridge Section)	Sq Yd	571	-	571



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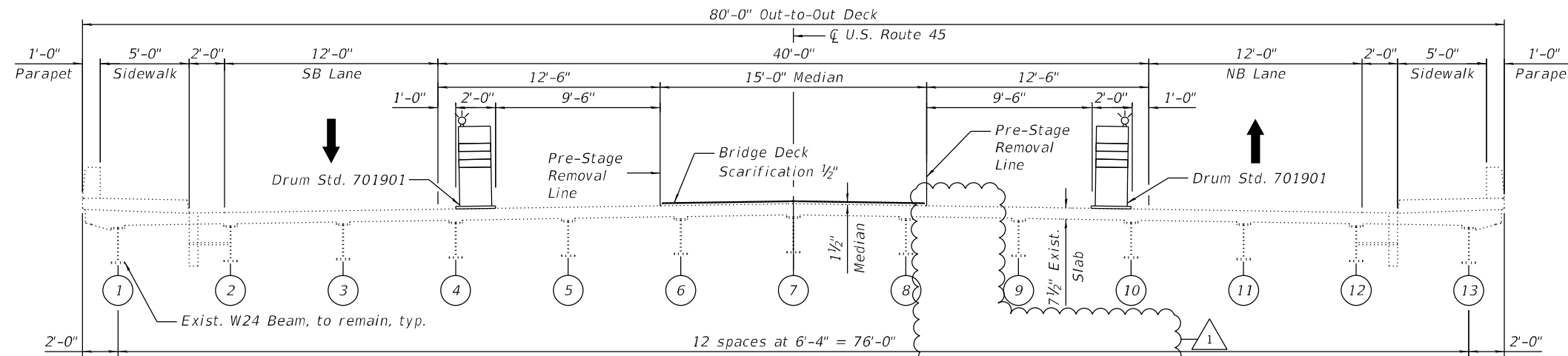
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS & TBOM
STRUCTURE NO. 099-0293**

1 REVISED SHEET 10/24/2024				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	0330-22-BJ2	COOK	46	23
			CONTRACT NO. 62T04	
ILLINOIS		FED. AID PROJECT		

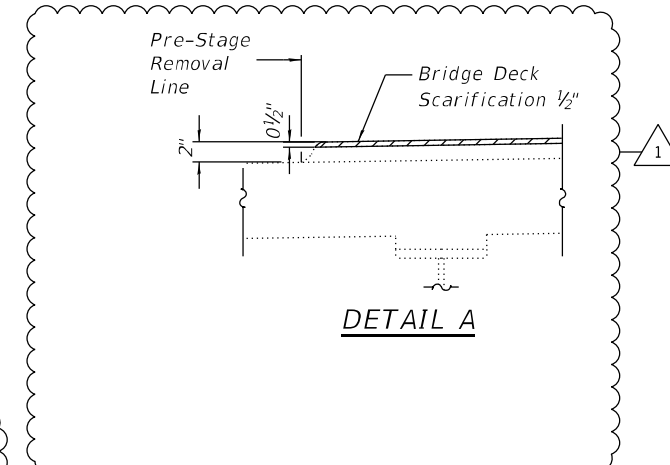
SHEET SA-02 OF SA-16 SHEETS



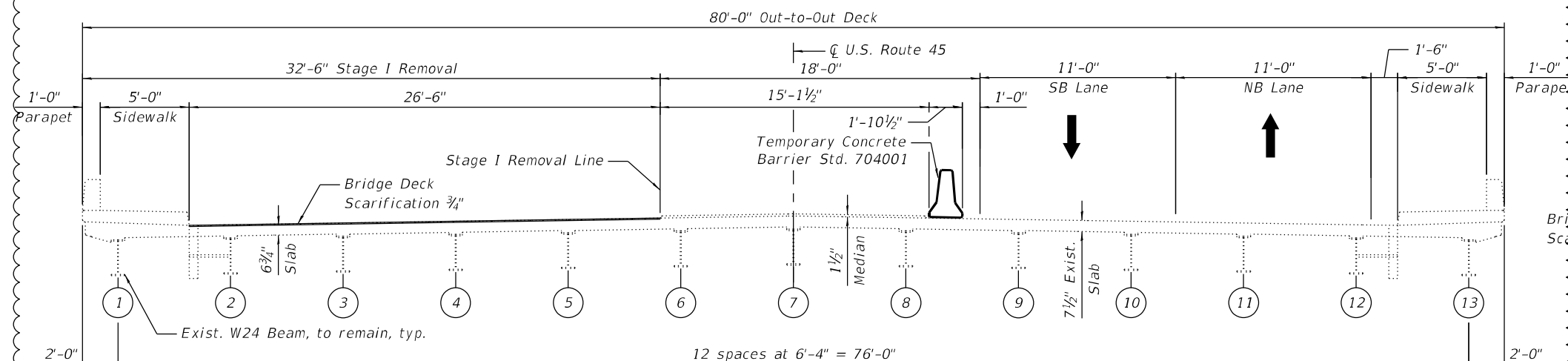
PRE-STAGE REMOVAL
(Looking North)

PRE-STAGE REMOVAL

1. Install temporary traffic control drums as shown to locate traffic on the east and west side of the existing structure.
2. Perform 1/2" bridge deck scarification at Median.



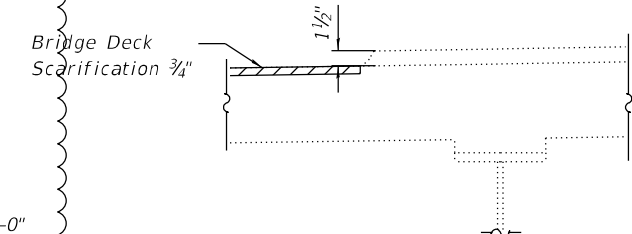
DETAIL A



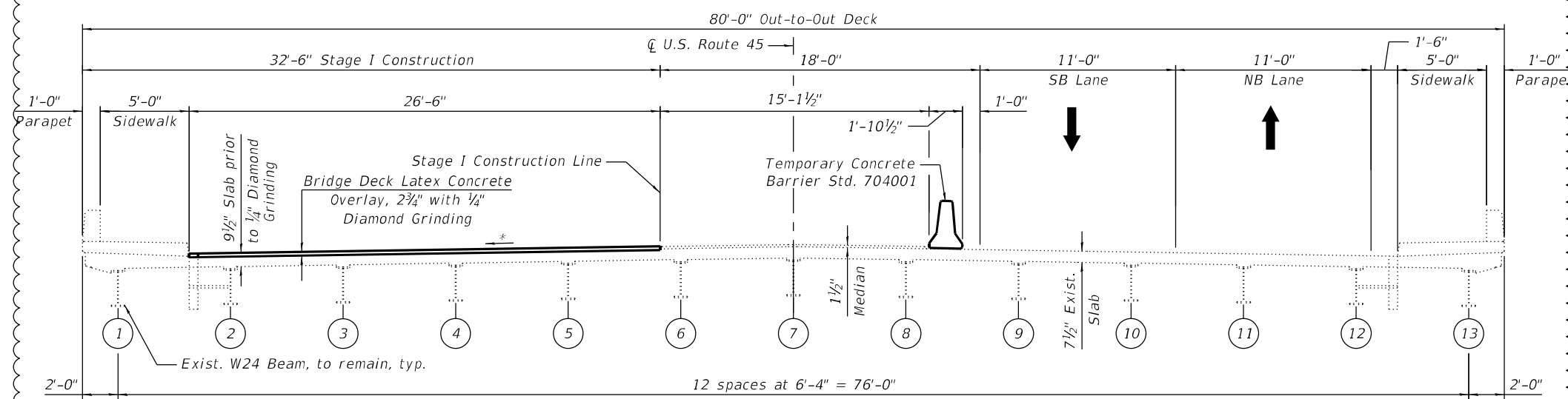
STAGE I REMOVAL
(Looking North)

STAGE I REMOVAL

1. Install temporary concrete barrier as shown to locate traffic on the east side of the existing structure.
2. Perform 3/4" bridge deck scarification at SB Roadway.
3. Remove portions of bridge concrete deck/approach slab adjacent to expansion joints at the North and South Abutments within the Limits of Stage I Removal.



DETAIL B



STAGE I CONSTRUCTION
(Looking North)

STAGE I CONSTRUCTION

1. Reconstruct transverse expansion joints and install new Preformed Joint Strip Seals within the limits of Stage I Construction.
2. Perform Structural Repair of Concrete on north and south abutments.
3. Apply 2 3/4" Bridge Deck Latex Concrete Overlay at SB Roadway.
4. Perform 1/4" Diamond Grinding to bridge deck and abutment hatched block at SB Roadway.
5. Perform Bridge Deck Grooving (Longitudinal) for the 2 3/4" Bridge Deck Latex Concrete Overlay and reconstructed abutment expansion joint areas within the Limits of Stage I Construction.
6. Apply 2" Stone-Matrix Asphalt (SMA) Overlay to the approach pavement and taper into existing roadway. See Roadway Plans.
7. Apply protective coat to top and inside faces of west parapet, west sidewalk, reconstructed transverse expansion joints and to the surfaces of the new overlay within the Limits of Stage I Construction.

REVISD SHEET 10/24/2024

*Match Existing Cross-slopes.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

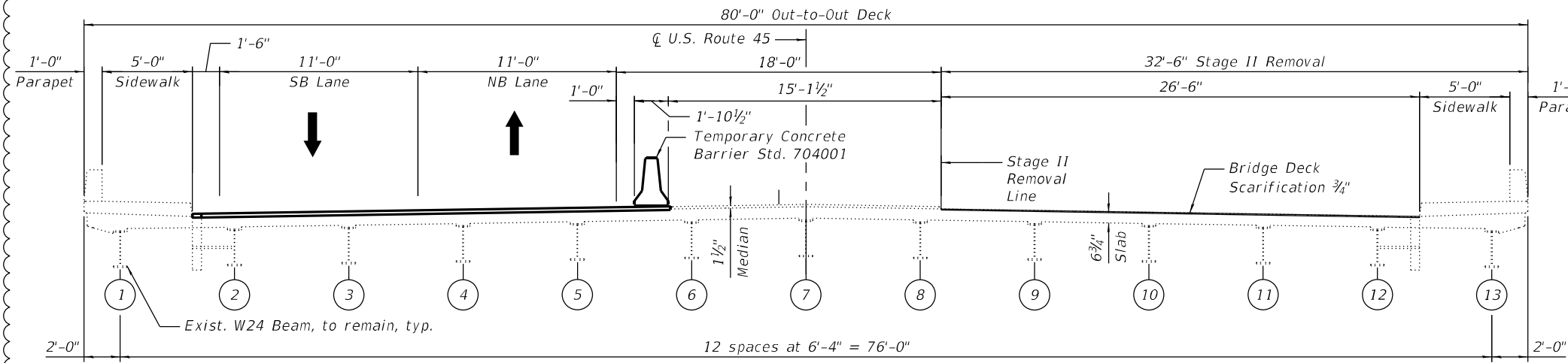
**STAGE CONSTRUCTION (SHEET 1 OF 3)
STRUCTURE NO. 099-0293**

SHEET SA-03 OF SA-16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	0330-22-BJ2	COOK	46	24
CONTRACT NO. 62T04				

ILLINOIS FED. AID PROJECT

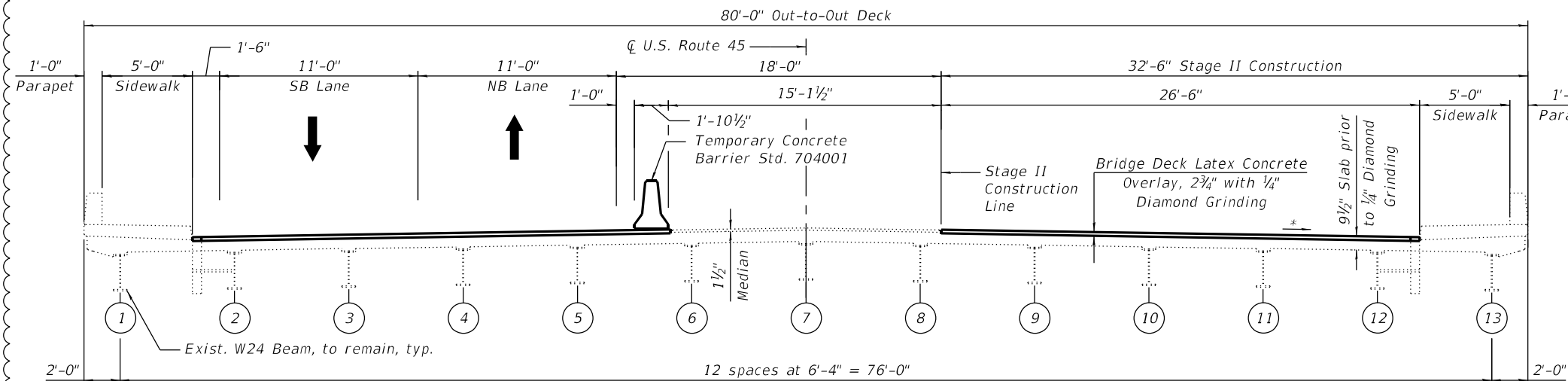
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STAGE II REMOVAL
 (Looking North)

STAGE II REMOVAL

1. Install temporary concrete barrier as shown to locate traffic on the east side of the existing structure.
2. Perform 3/4" bridge deck scarification at NB Roadway.
3. Remove portions of bridge concrete deck/approach slab adjacent to expansion joints at the North and South Abutments within the Limits of Stage II Removal.



STAGE II CONSTRUCTION
 (Looking North)

STAGE II CONSTRUCTION

1. Reconstruct transverse expansion joints and install new Preformed Joint Strip Seals within the limits of Stage II Construction.
2. Perform Structural Repair of Concrete on north and south abutments.
3. Apply 2 3/4" Bridge Deck Latex Concrete Overlay at NB Roadway.
4. Perform 1/4" Diamond Grinding to bridge deck and abutment hatched block at NB Roadway.
5. Perform Bridge Deck Grooving (Longitudinal) for the 2 3/4" Bridge Deck Latex Concrete Overlay and reconstructed abutment expansion joint areas within the Limits of Stage II Construction.
6. Apply 2" Stone-Matrix Asphalt (SMA) Overlay to the approach pavement and taper into existing roadway. See Roadway Plans.
7. Apply protective coat to top and inside faces of west parapet, west sidewalk, reconstructed transverse expansion joints and to the surfaces of the new overlay within the Limits of Stage II Construction.

*Match Existing Cross-slopes.

REVISION SYMBOL: REVISED SHEET 10/24/2024



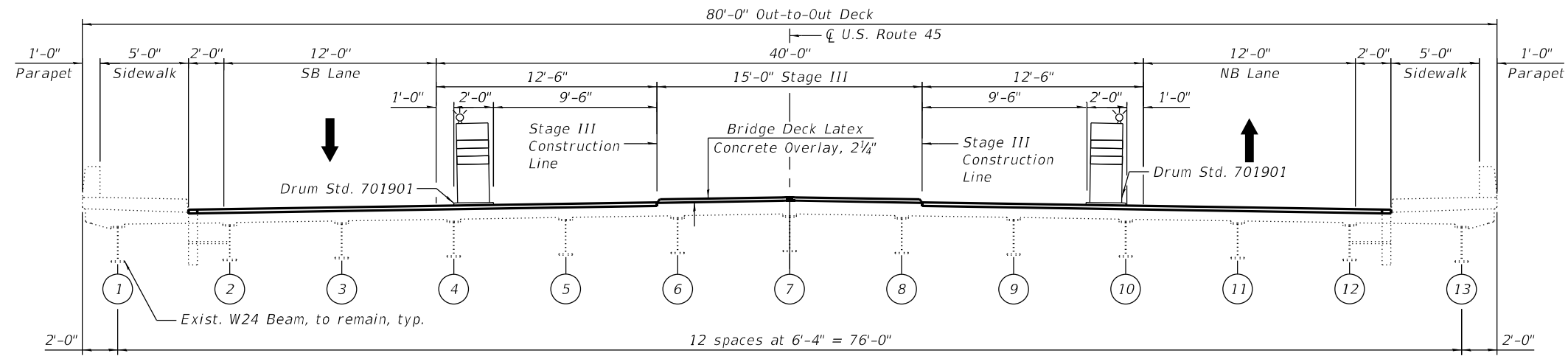
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PLOT DATE =		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION (SHEET 2 OF 3)
 STRUCTURE NO. 099-0293

SHEET SA-04 OF SA-16 SHEETS

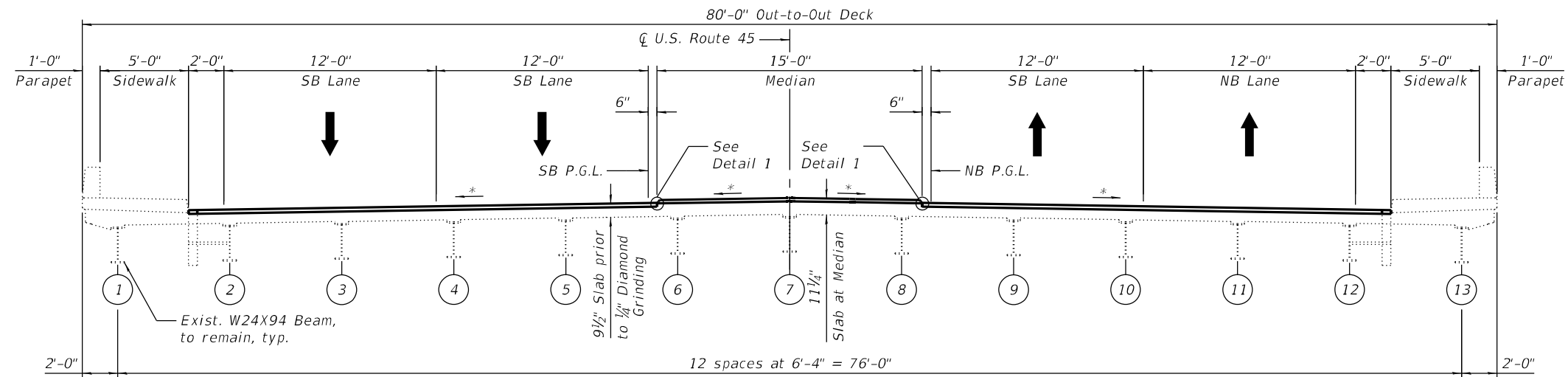
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CONTRACT NO. 62T04				
ILLINOIS		FED. AID PROJECT		



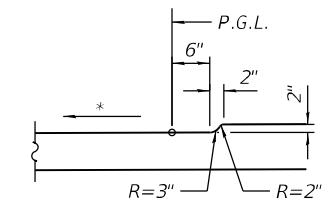
STAGE III CONSTRUCTION
(Looking North)

STAGE III CONSTRUCTION

1. Install temporary concrete barriers as shown to locate traffic on the east and west sides of the existing structure.
2. Apply 2 1/4" Bridge Deck Latex Concrete Overlay at Median.
3. Apply protective coat to the surfaces of the new overlay within the Limits of Stage III Construction.



FINAL CROSS SECTION
(Looking North)



DETAIL 1

*Match Existing Cross-slopes.

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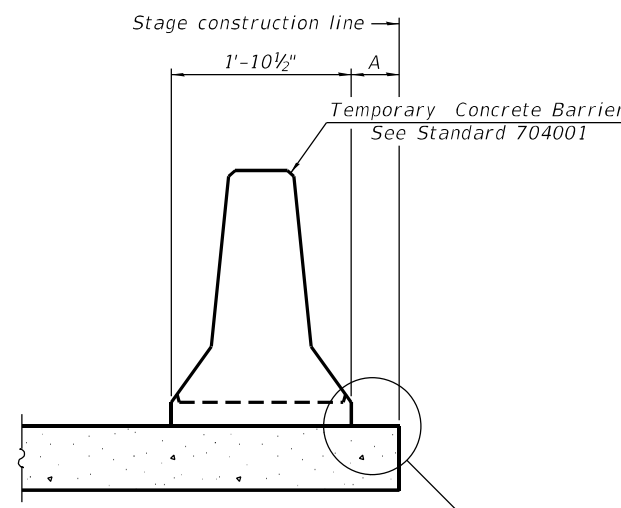
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION (SHEET 3 OF 3)
STRUCTURE NO. 099-0293

SHEET SA-05 OF SA-16 SHEETS

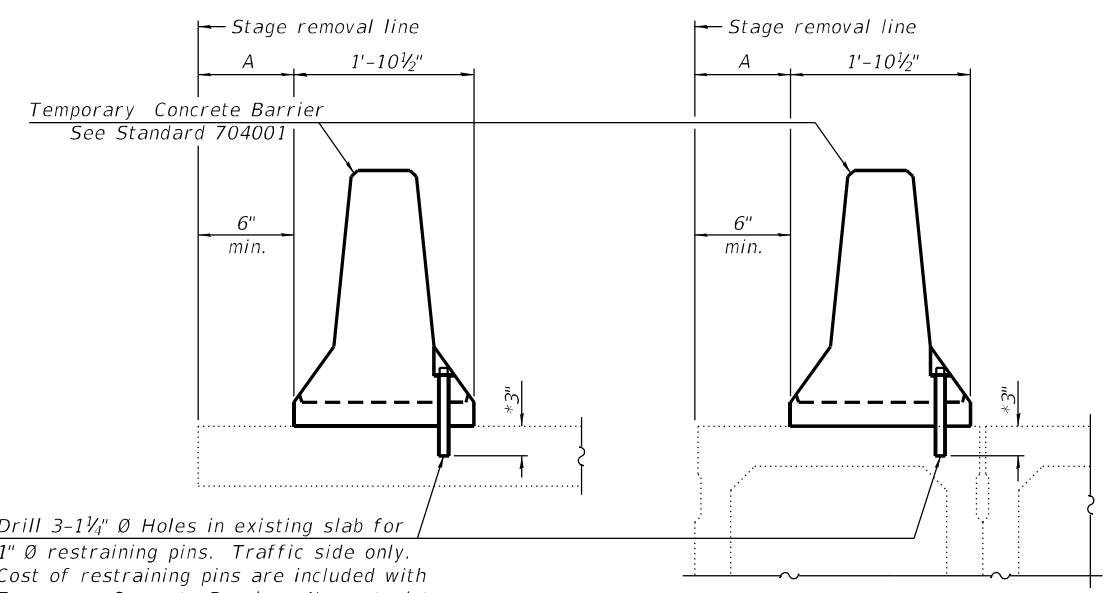
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0330	0330-22-BJ2	COOK	46	26
CONTRACT NO. 62T04				
ILLINOIS		FED. AID PROJECT		

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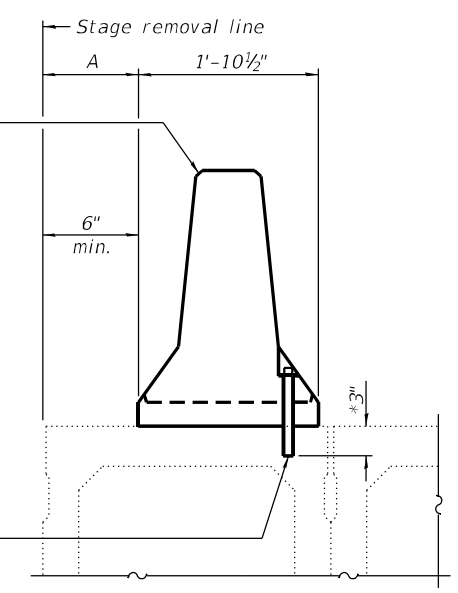
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



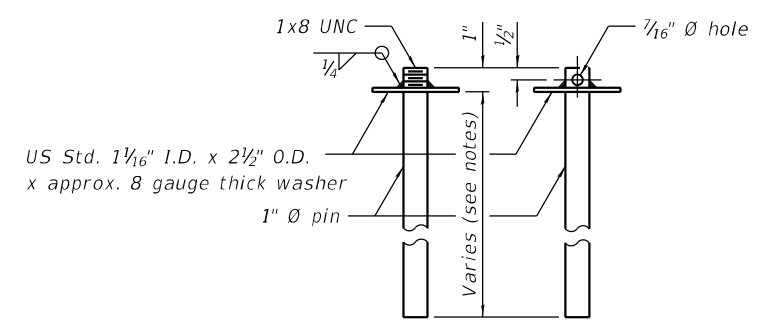
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB



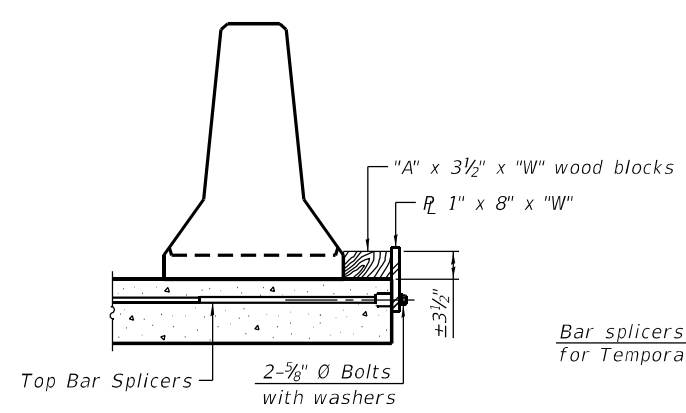
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

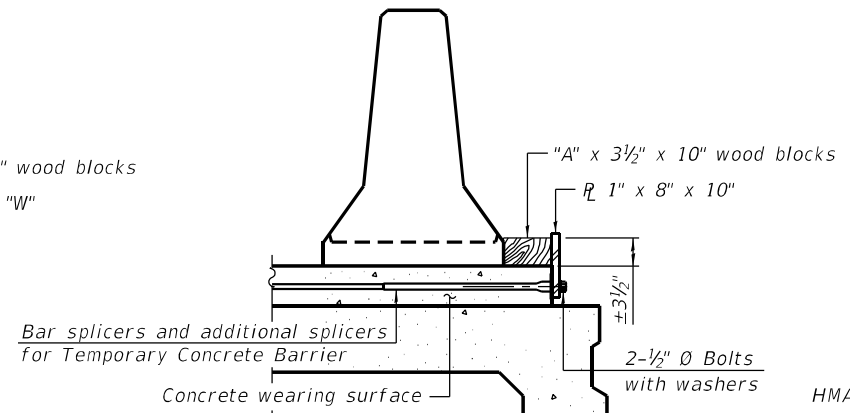


RESTRAINING PIN

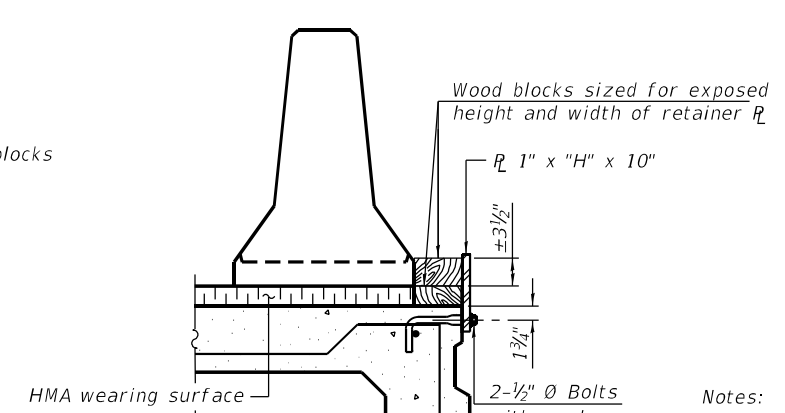
SECTIONS THRU SLAB OR DECK BEAM



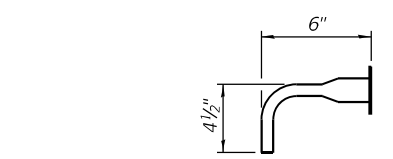
DETAIL I



DETAIL II



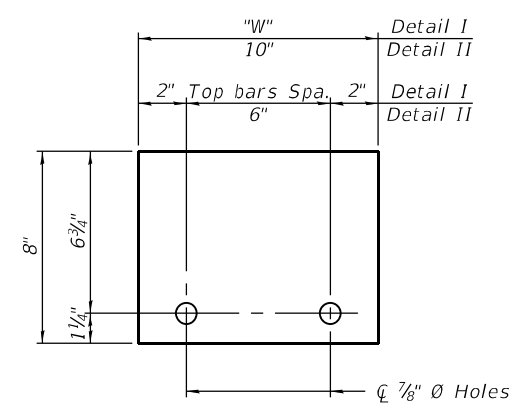
DETAIL III



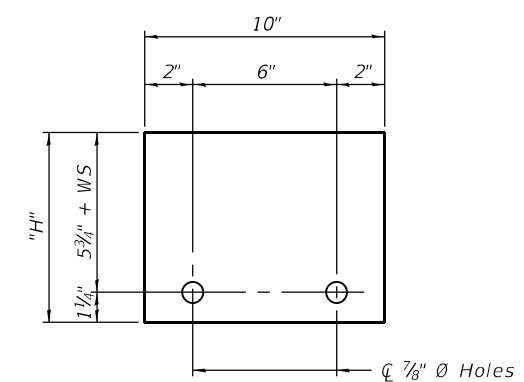
BAR SPLICER FOR #4 BAR - DETAIL III

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate center of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.
Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

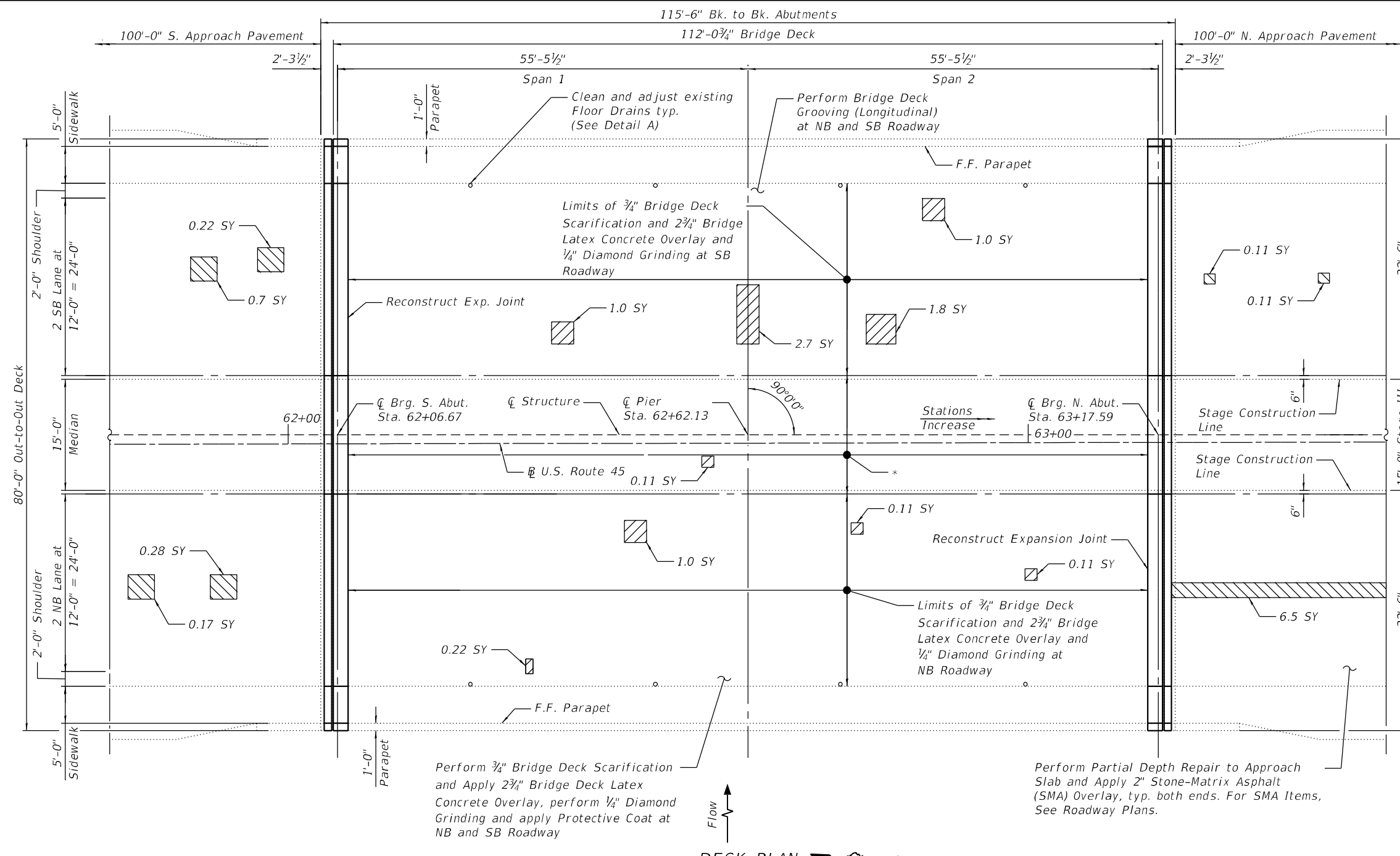
**TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 099-0293**

SHEET SA-06 OF SA-16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	0330-22-BJ2	COOK	46	27
CONTRACT NO.			62T04	
ILLINOIS		FED. AID PROJECT		

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Protective Coat	Sq Yd	1,066
Floor Drains to be Cleaned	Each	8
Bridge Deck Grooving (Longitudinal)	Sq Yd	598
Approach Slab Repair (Partial Depth)	Sq Yd	8
Bridge Deck Latex Concrete Overlay, 2 1/4" Inches	Sq Yd	181
Bridge Deck Latex Concrete Overlay, 2 3/4" Inches	Sq Yd	637
Bridge Deck Scarification 3/4"	Sq Yd	637
Bridge Deck Scarification 1/2"	Sq Yd	181
Deck Slab Repair (Full Depth, Type II)	Sq Yd	25
Diamond Grinding (Bridge Section)	Sq Yd	571

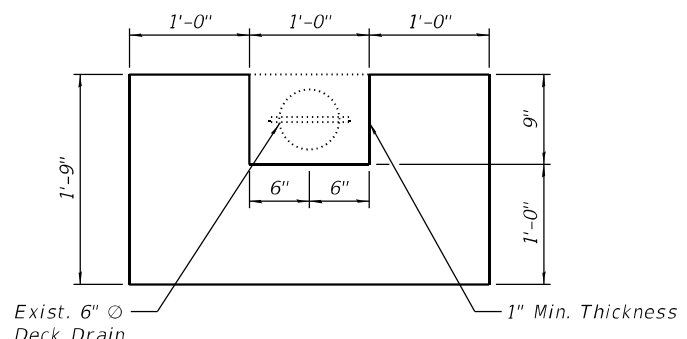


Stage I Construction
32'-6"
Stage III Construction
15'-0"
Stage II Construction
32'-6"

* Limits of 1/2" Bridge Deck Scarification and 2 1/4" Bridge Latex Concrete Overlay

** Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay.

DECK PLAN



DETAIL A: FLOOR DRAIN ADJUSTMENT

LEGEND

- Deck Slab Repair (Partial Depth)
- Approach Slab Repair (Partial Depth)

SY Square Yard

F.F. Front Face

- NOTES:**
- For bridge deck final cross section, see Sheet SA-05.
 - For North and South transverse joint removal and reconstruction, See Sheets SA-08 through SA-10.
 - Perform Bridge Deck Grooving (Longitudinal) on traffic lanes.
 - Perform 1/4" Diamond Grinding to top of bridge deck and abutment hatched block.
 - Protective Coat shall be applied to top and inside face of parapets, median, sidewalks, the reconstructed transverse expansion joint areas and top of Latex Concrete Overlay.
 - Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to Concrete Removal.
 - The Contractor shall exercise extreme caution during Concrete Removal to avoid damaging the steel beams and diaphragms to remain. Any damage to the existing steel beams and/or diaphragms to remain caused by the Contractor in the performance of his/her work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
 - Deck Slab Repair (Full Depth, Type II) quantities have been estimated (based on a nominal 3% of bridge deck area) for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.

MODEL: Default
FILE NAME: O:\Engineering\LiveProjects\20095_IDOT DUR\WO 44 - 62T04_US 45 over Hickory Creek\03_CADD\01_Sheets\Structural\0990293-62T04-007-Deck Repair.dgn



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PLOT SCALE =	DRAWN - IH	REVISED -
PLOT DATE =	CHECKED - MAF	REVISED -

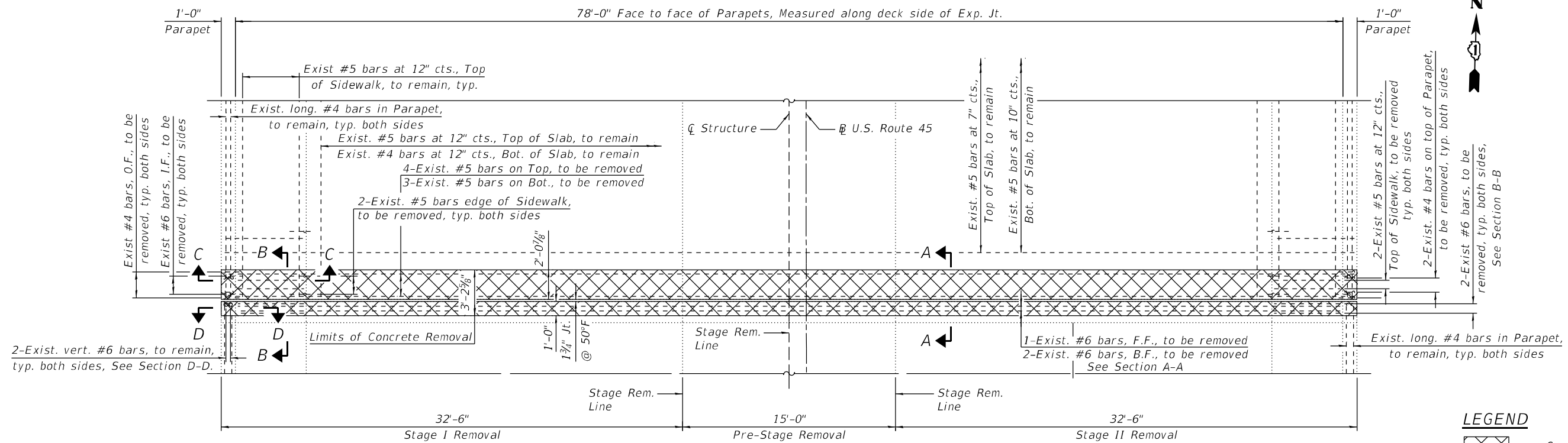
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK AND APPROACH REPAIR PLAN
STRUCTURE NO. 099-0293**

SHEET SA-07 OF SA-16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	0330-22-BJ2	COOK	46	28
CONTRACT NO. 62T04				

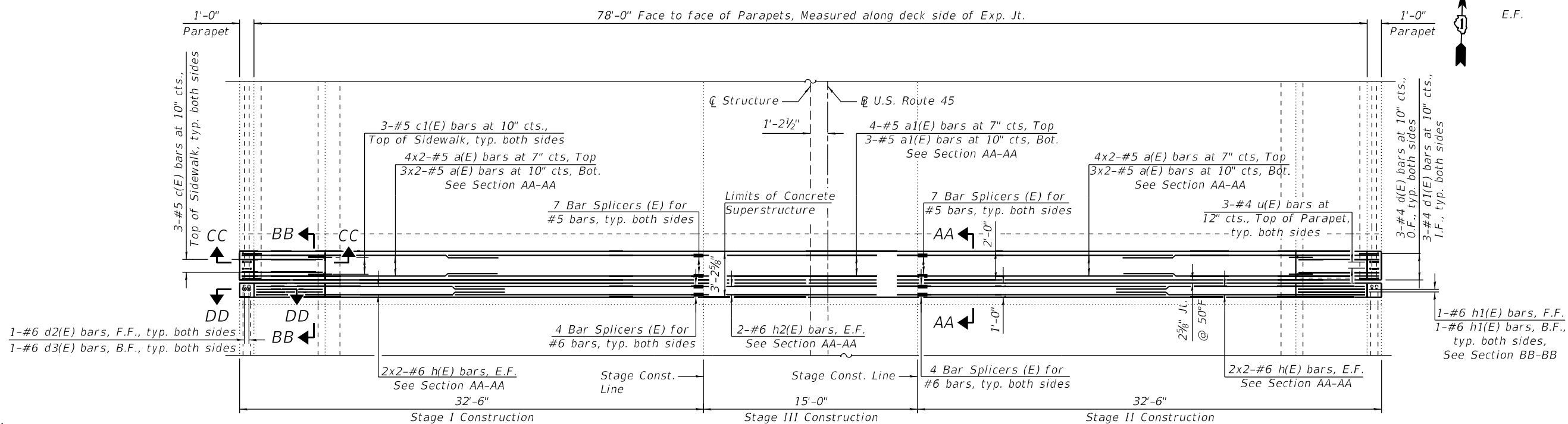
ILLINOIS FED. AID PROJECT



SOUTH ABUTMENT JOINT REMOVAL PLAN
(South Joint Shown, North Joint Similar)

LEGEND

	Concrete Removal
F.F.	Front Face
B.F.	Back Face
I.F.	Inside Face
O.F.	Outside Face
E.F.	Each Face



SOUTH ABUTMENT JOINT CONSTRUCTION PLAN
(South Joint Shown, North Joint Similar)

NOTES:

- Horizontal and vertical bars in deck and approach parapets shall be cleaned, straightened and reused in new construction.
- For Sections A-A, B-B, C-C, AA-AA, BB-BB and CC-CC, See Sheet SA-09.
- For Sections D-D, DD-DD, additional notes, bar diagrams, and bill of material, See Sheet SA-10.

MODEL: Default
FILE NAME: O:\Engineering\Live\Projects\2005_IDOT DUR\WO_44 - 62T04_US 45 over Hickory Creek\03_CADD\01_Sheets\Structural\0990293-62T04-008-5_Abut. Exp. Jt. Rem. and Replacement Details I.dgn



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PLOT DATE =	CHECKED - MAF	REVISED -

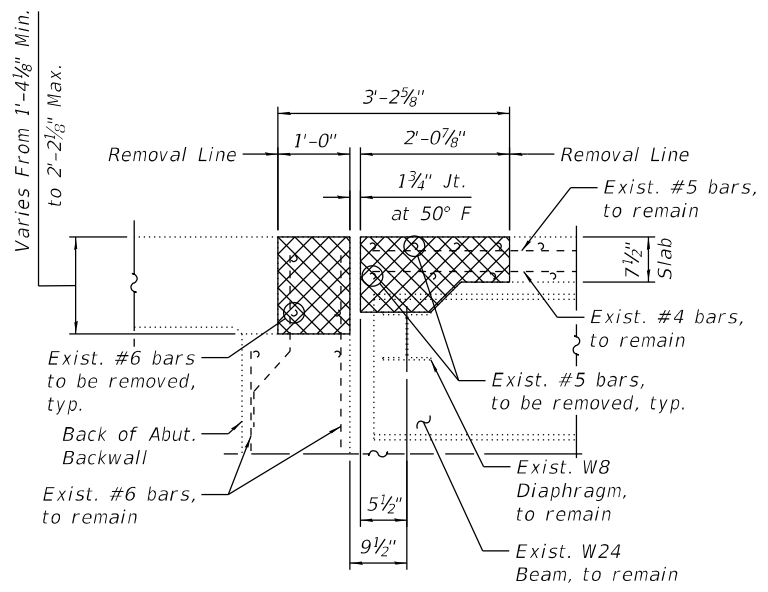
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ABUT. JT. REM. AND REPLACEMENT (SHEET 1 OF 3)
STRUCTURE NO. 099-0293**

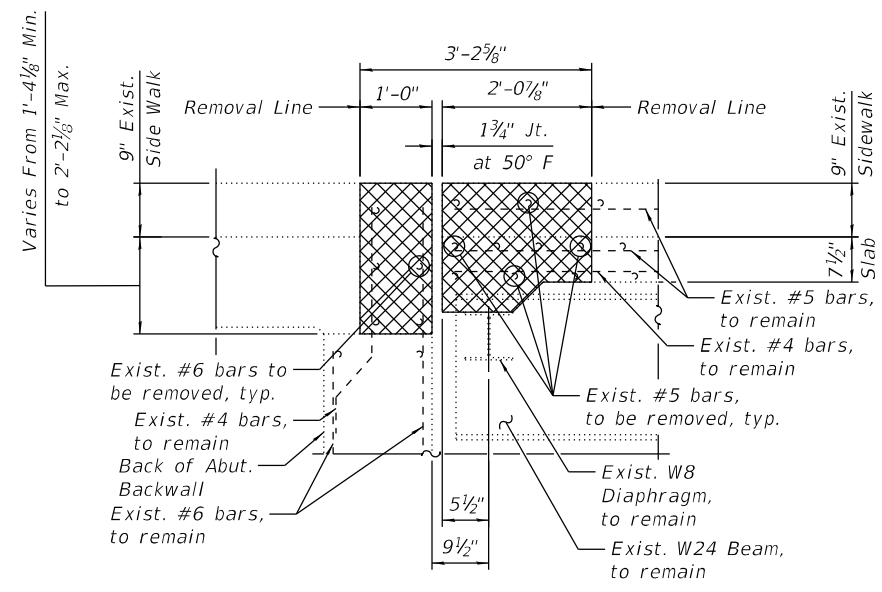
SHEET SA-08 OF SA-16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	0330-22-BJ2	COOK	46	29
CONTRACT NO. 62T04				
ILLINOIS		FED. AID PROJECT		

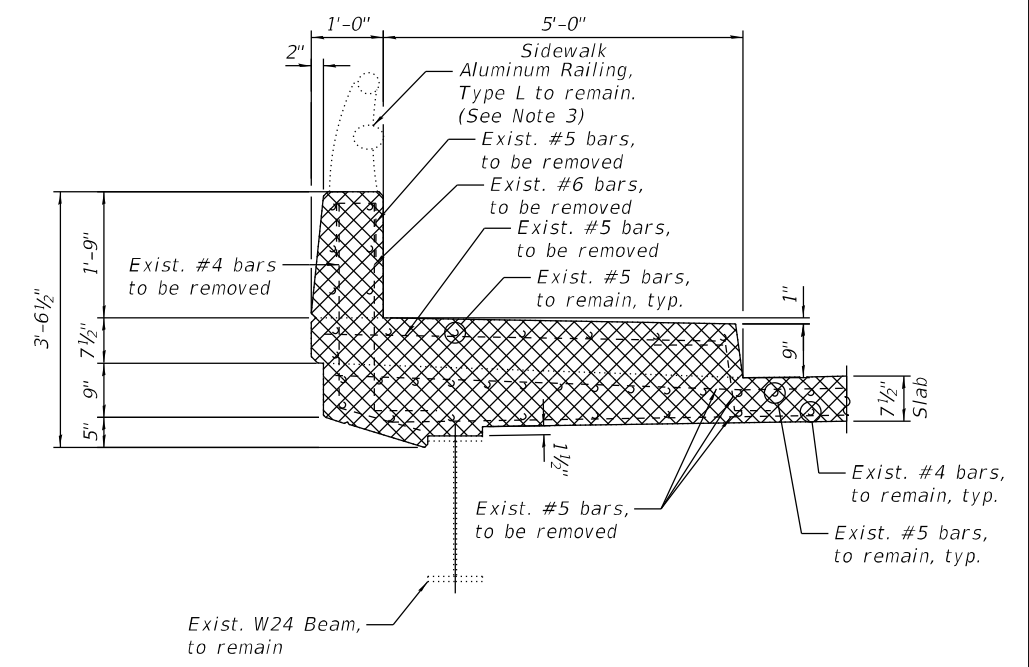
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SECTION A-A

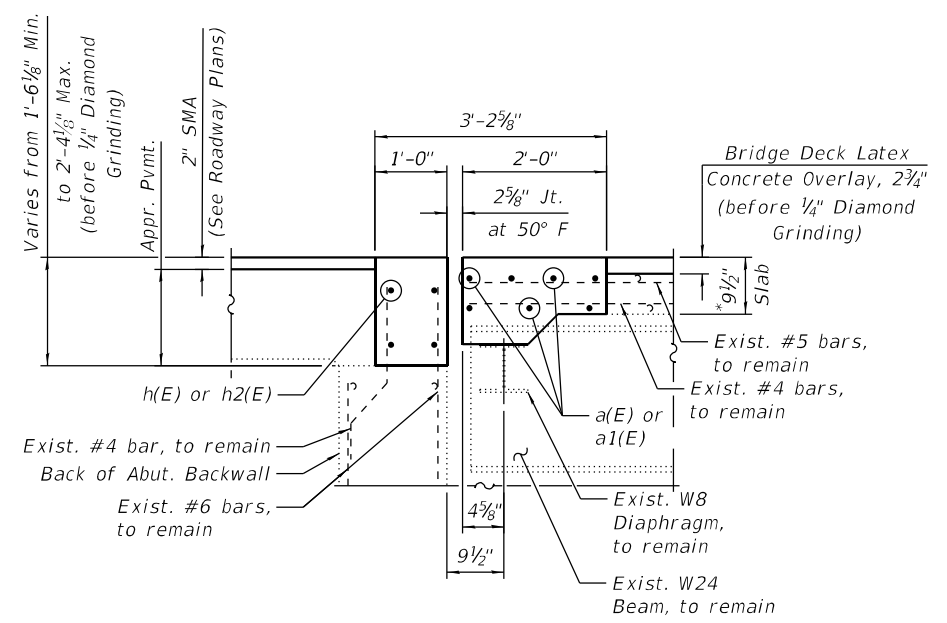


SECTION B-B
 East side Side of Deck
 Shown, West side similar.

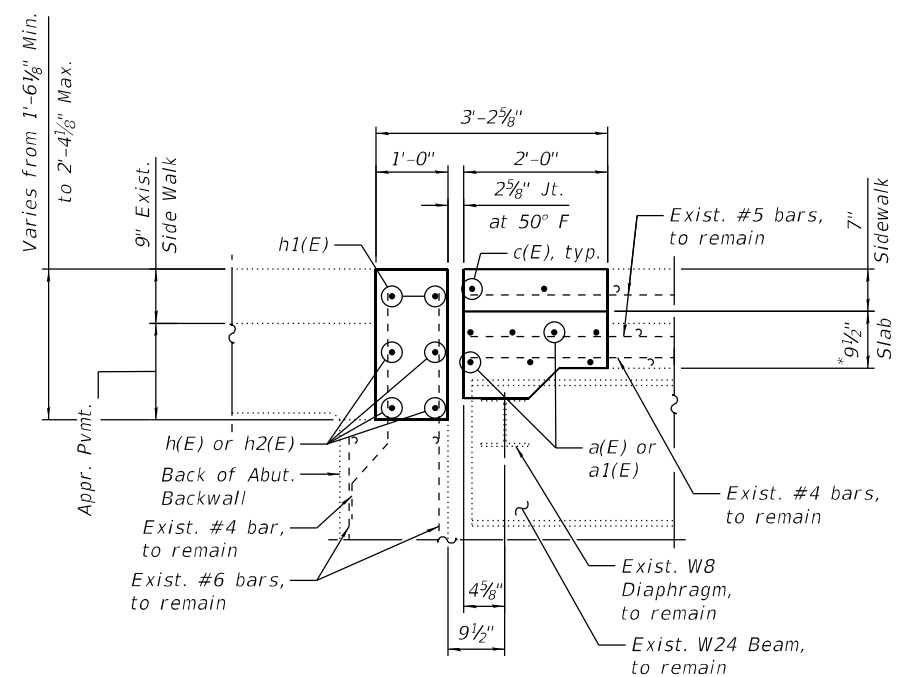


SECTION C-C
 East side Side of Deck
 Shown, West side similar.

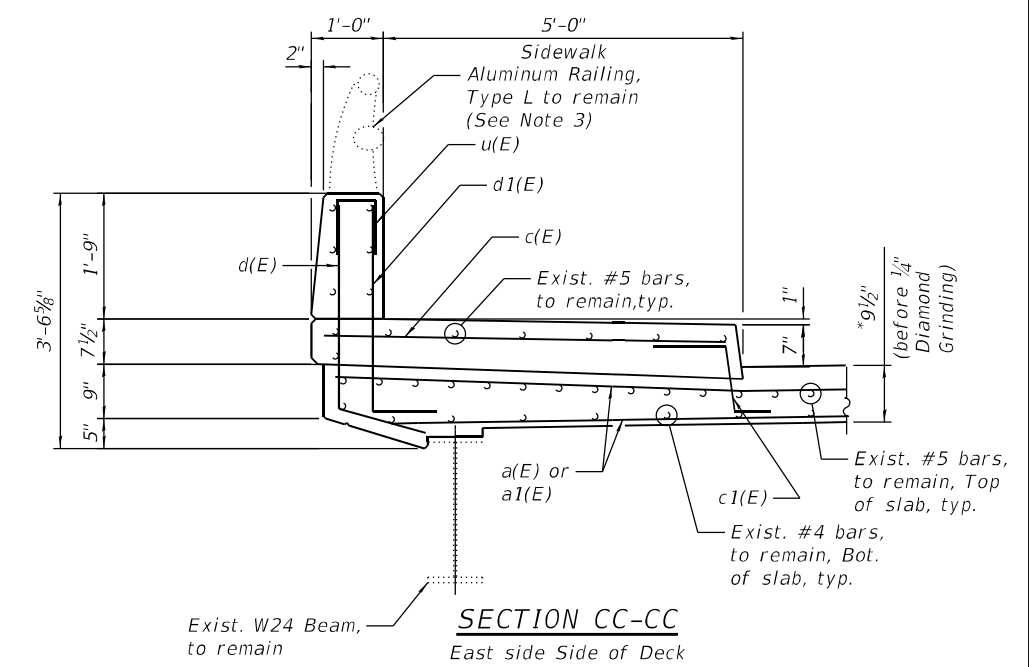
LEGEND
 Concrete Removal
 *Prior to 1/4" grinding



SECTION AA-AA



SECTION BB-BB
 East side Side of Deck
 Shown, West side similar.



SECTION CC-CC
 East side Side of Deck
 Shown, West side similar.

NOTES:

- For Legend, see Sheet SA-08.
- For Sections D-D, DD-DD and Bar diagrams, additional. Notes and Bill of Material, see Sheet SA-10.
- Hand rail posts that are within the limits of concrete removal shall be protected and reincorporated in the new concrete. Cost included in concrete superstructure.



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	CHECKED - MAF	REVISED -

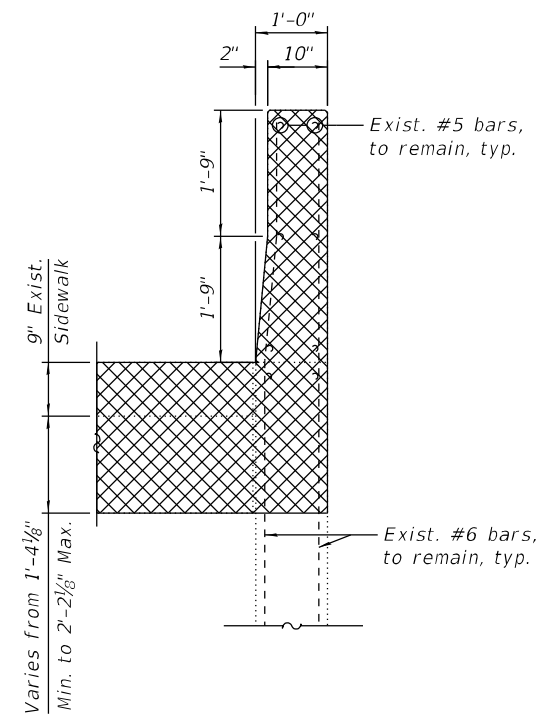
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ABUT. JT. REM. AND REPLACEMENT (SHEET 2 OF 3)
 STRUCTURE NO. 099-0293**

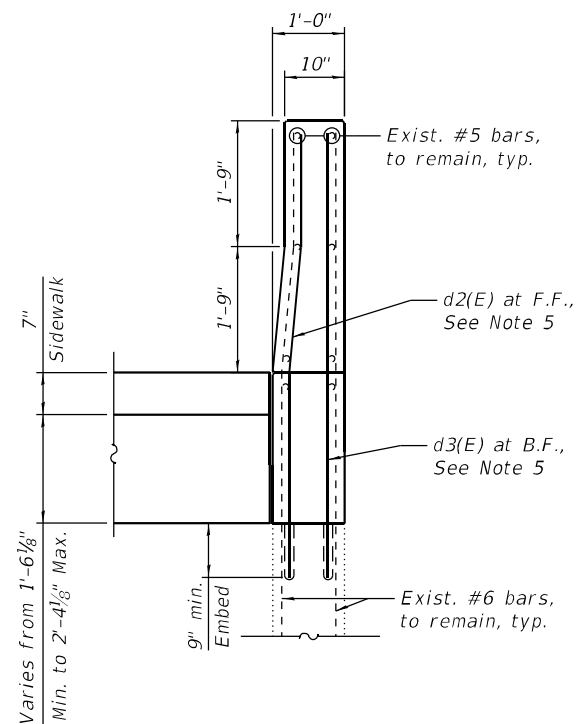
SHEET SA-09 OF SA-16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	0330-22-BJ2	COOK	46	30
CONTRACT NO. 62T04				
ILLINOIS FED. AID PROJECT				

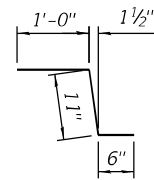
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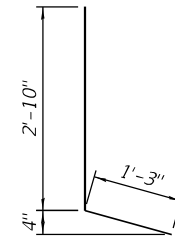
SECTION D-D



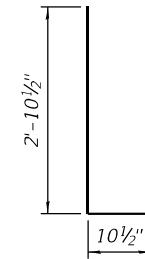
SECTION DD-DD



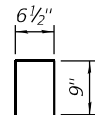
BAR c1(E)



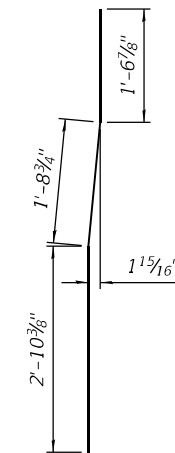
BAR d(E)



BAR d1(E)



BAR u(E)



BAR d2(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	56	#5	17'-10"	—
a1(E)	14	#5	15'-0"	—
c(E)	12	#5	5'-8"	—
c1(E)	12	#5	2'-5"	~
d(E)	12	#4	4'-1"	L
d1(E)	12	#6	3'-9"	L
d2(E)	4	#6	6'-2"	~
d3(E)	4	#6	6'-2"	—
h(E)	32	#6	17'-5"	—
h1(E)	8	#6	4'-8"	—
h2(E)	8	#6	15'-0"	—
u(E)	12	#4	2'-0 1/2"	U
Concrete Removal		Cu Yd	23.5	
Concrete Superstructure		Cu Yd	26.5	
Protective Coat		Sq Yd	113	
Reinforcement Bars, Epoxy Coated		Pound	2,640	

MIN BAR LAPS

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

LEGEND

	Concrete Removal
F.F.	Front Face
B.F.	Back Face

NOTES:

- For Legend, see Sheet SA-08.
- For Preformed Joint Strip Seal Details, See Sheets SA-11 thru SA-13.
- For Bar Splicer Assembly Details, See Sheet SA-16.
- Removal and disposal of the existing expansion joints is included with Concrete Removal.
- Epoxy grout d2(E) and d3(E) bars according to Article 584 of the Standard Specifications. Drill to miss existing reinforcement. Cost included with Concrete Superstructure.



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	CHECKED - MAF	REVISED -

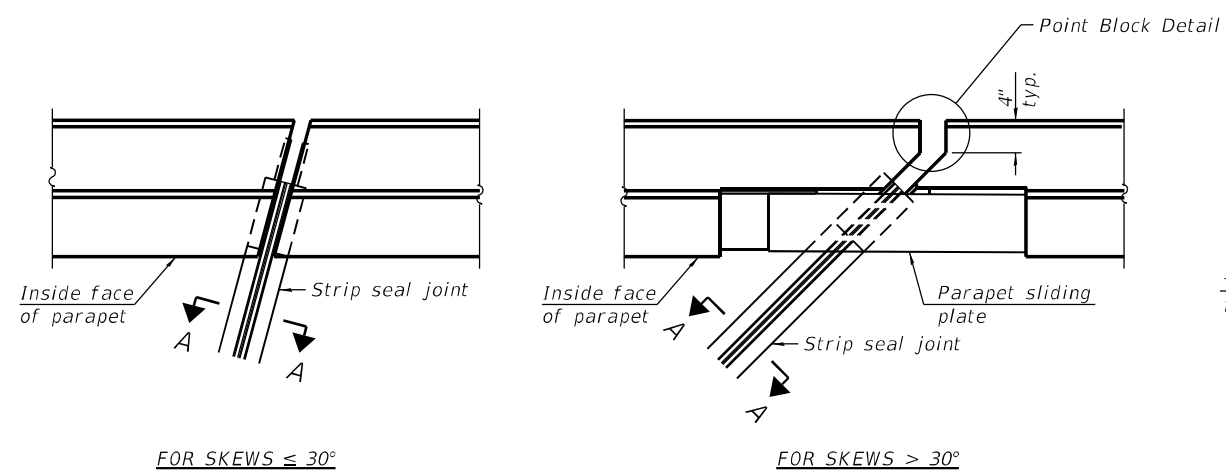
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ABUT. JT. REM. AND REPLACEMENT (SHEET 3 OF 3)
 STRUCTURE NO. 099-0293**

SHEET SA-10 OF SA-16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	0330-22-BJ2	COOK	46	31
CONTRACT NO. 62T04			ILLINOIS FED. AID PROJECT	

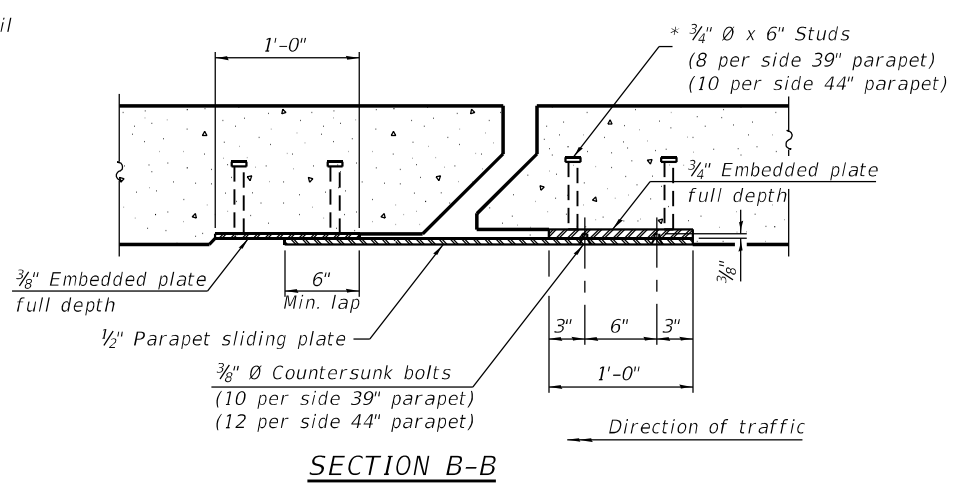
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FOR SKEWS $\leq 30^\circ$

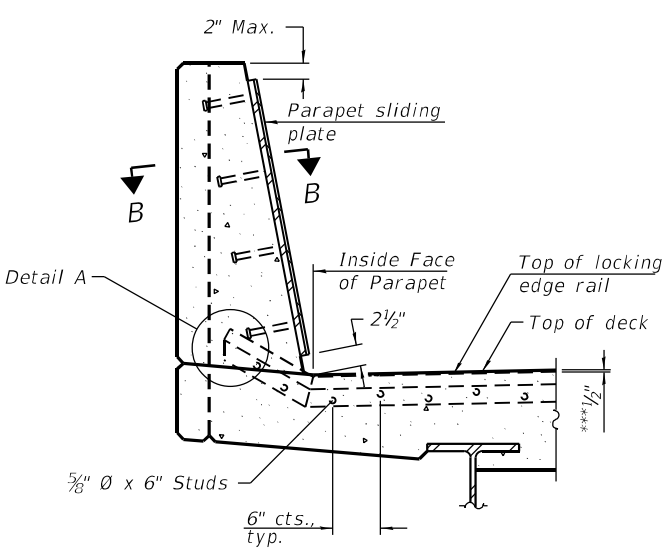
PLAN AT PARAPET

FOR SKEWS $> 30^\circ$



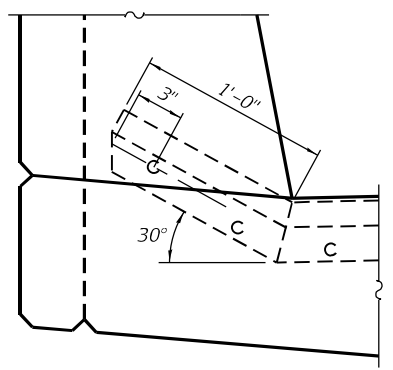
SECTION B-B

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of $1/4$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the $4 1/2$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be $3/16$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.
 The top surface of sidewalk sliding plates shall have a raised pattern according to ASTM A786.
 Cost of parapet sliding plates, sidewalk sliding plates, embedded plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.
 39" constant slope barrier shown, 44" constant slope barrier similar as noted.
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

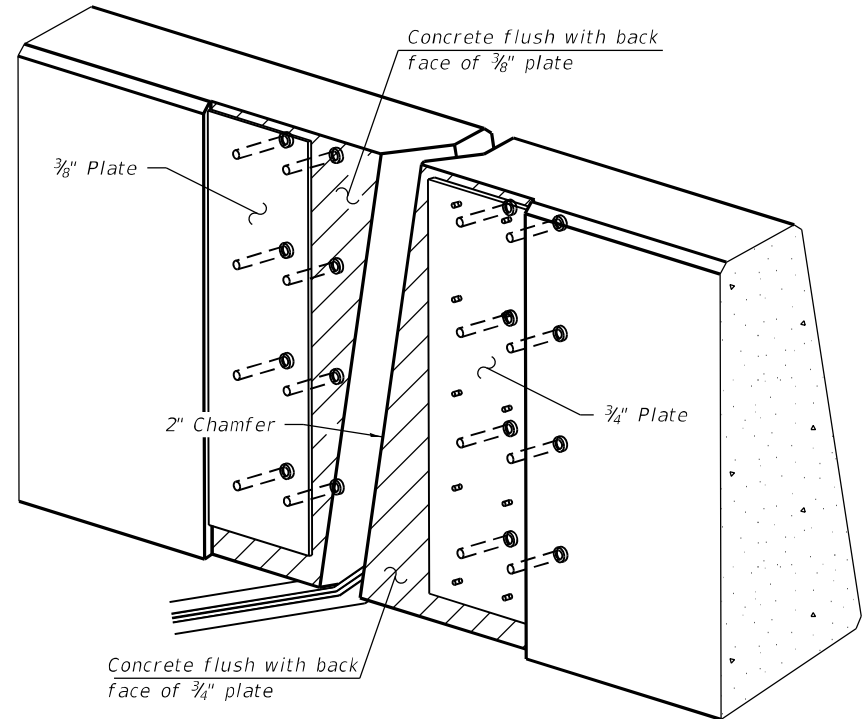


SECTION AT PARAPET

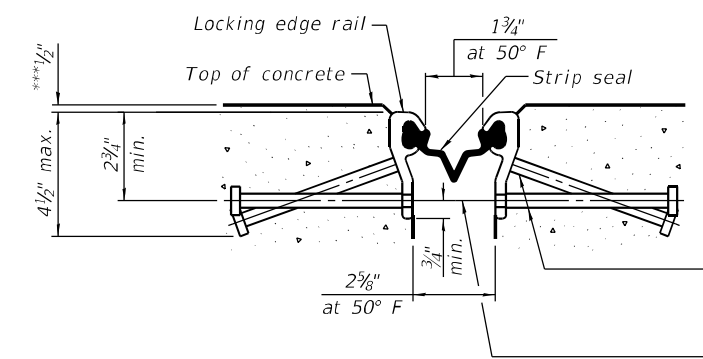
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A

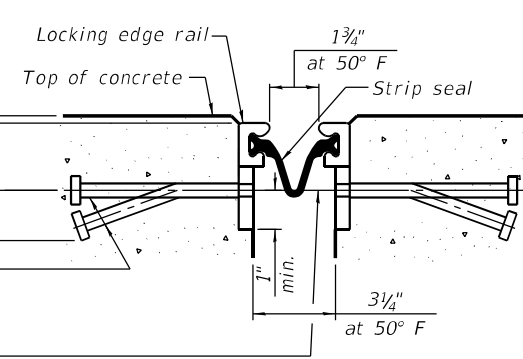


TRIMETRIC VIEW
 (Showing embedded plates only)

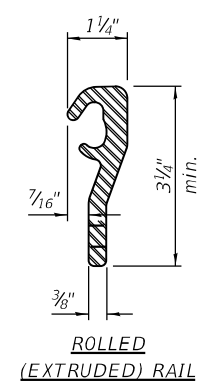


SHOWING ROLLED RAIL JOINT

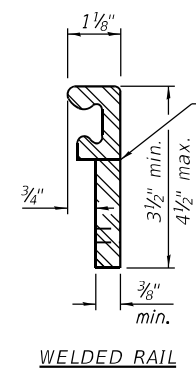
* $3/8$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 $3/8$ " ϕ threaded rods in $7/16$ " ϕ holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with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



SHOWING WELDED RAIL JOINT



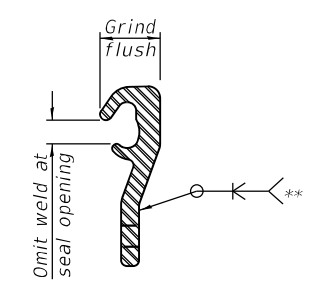
ROLLED (EXTRUDED) RAIL



WELDED RAIL

LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Preformed Joint Strip Seal	Foot	160

EJ-SS-S

11-1-2022

(Sheet 1 of 3)



USER NAME =	DESIGNED - IH	REVISED -
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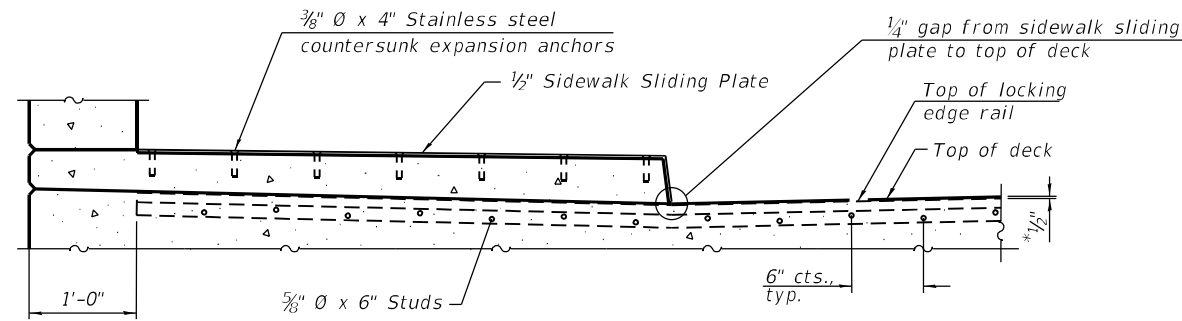
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JT. STRIP SEAL (SHEET 1 OF 3)
 STRUCTURE NO. 099-0293

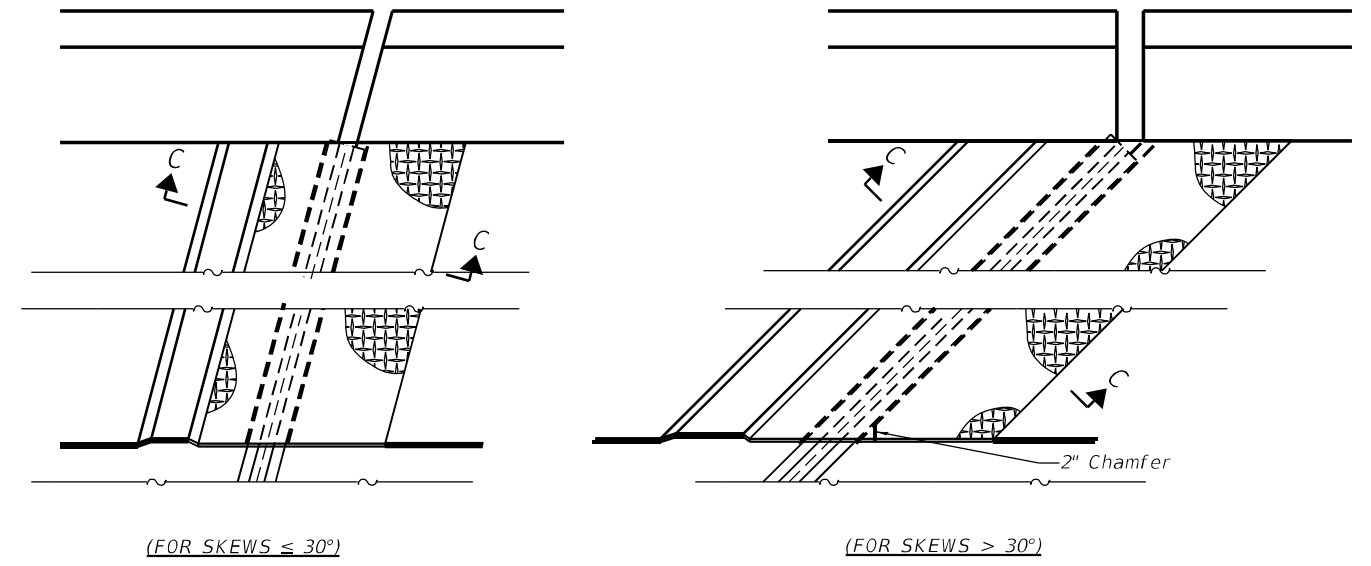
SHEET SA-11 OF SA-16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	0330-22-BJ2	COOK	46	32
			CONTRACT NO. 62T04	
		ILLINOIS FED. AID PROJECT		

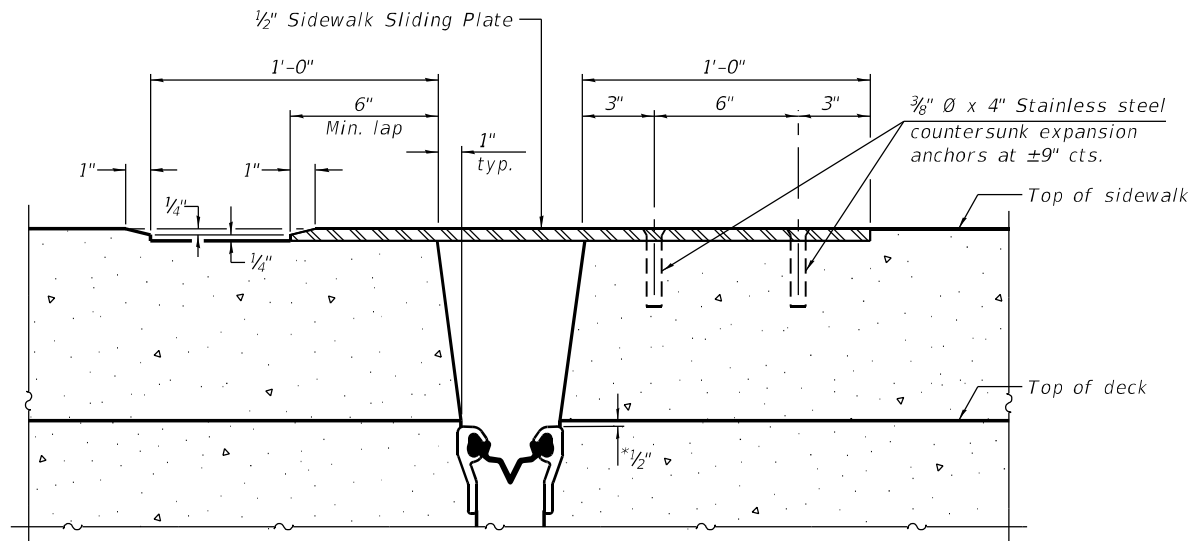
*Prior to 1/4" grinding



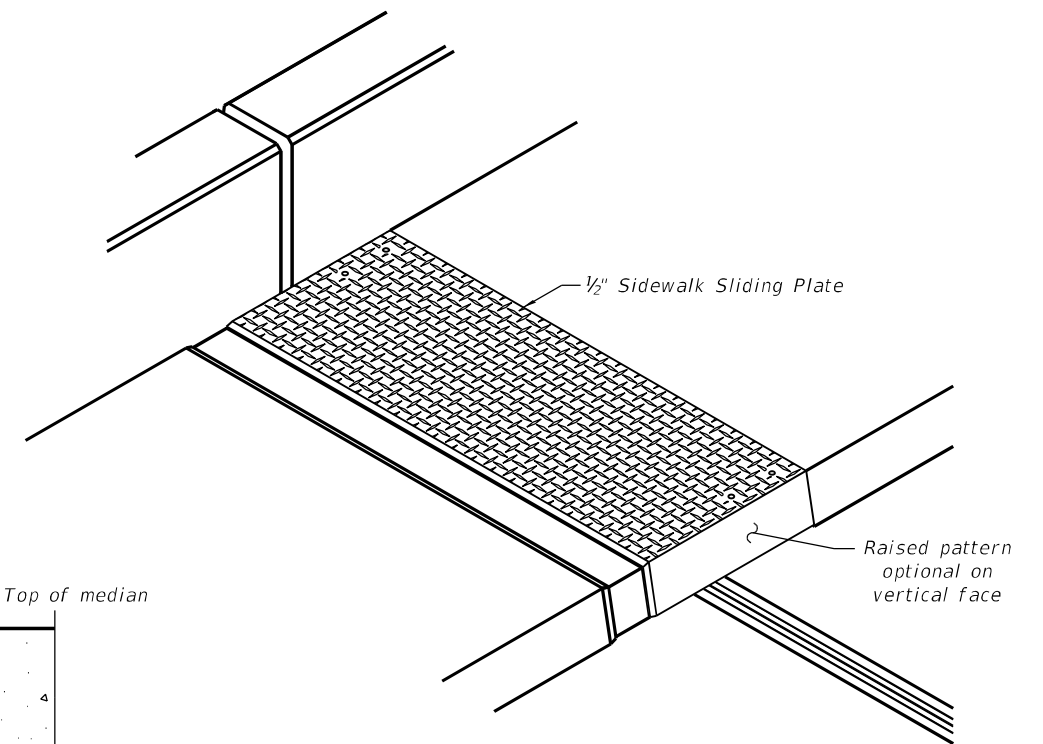
SECTION AT RAISED SIDEWALK



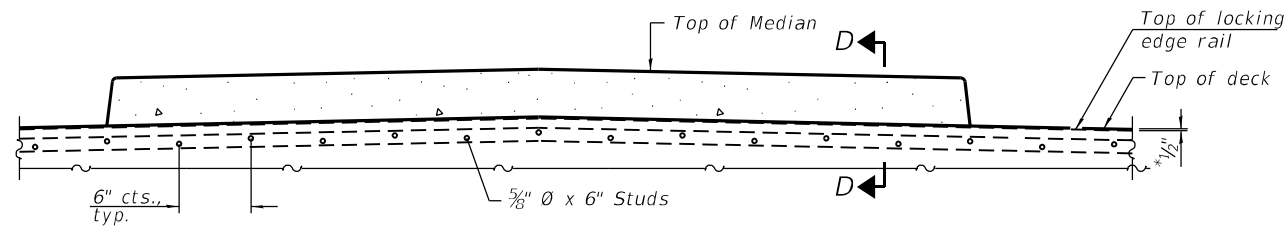
PLAN AT RAISED SIDEWALK



SECTION C-C

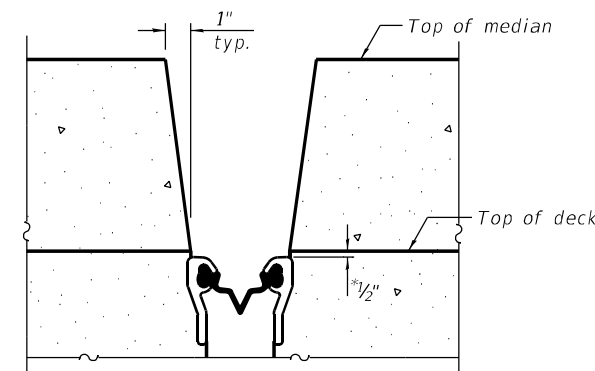


TRIMETRIC VIEW



SECTION AT MEDIAN

For skews > 30°, chamfer acute corners 2" similar to sidewalk.



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

(Sheet 2 of 3)

MODEL: Default
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11-1-2022



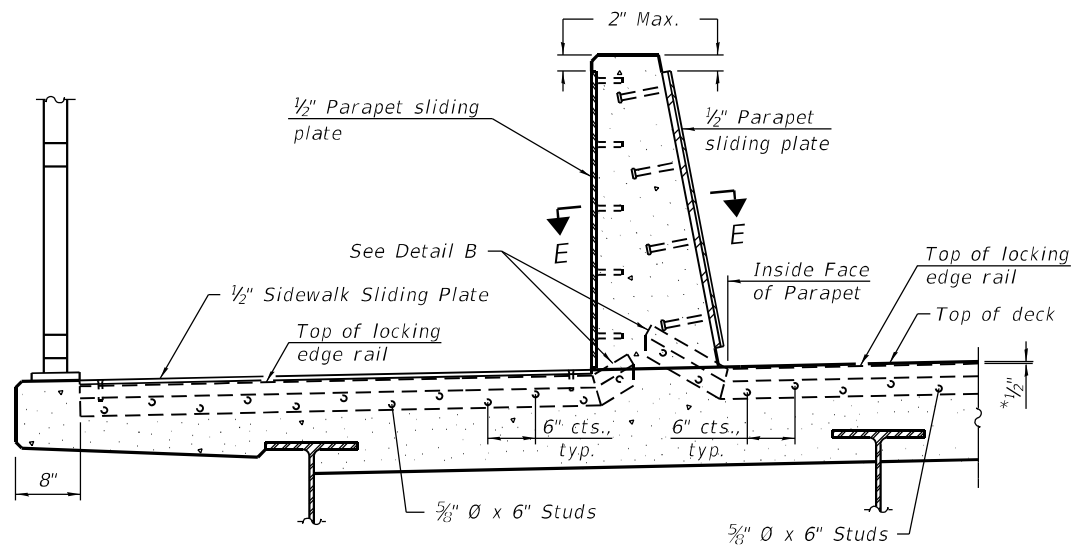
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PLOT SCALE =	CHECKED - MAF	REVISED -
PLOT DATE =	DRAWN - IH	REVISED -
	CHECKED - MAF	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JT. STRIP SEAL (SHEET 2 OF 3)
STRUCTURE NO. 099-0293**

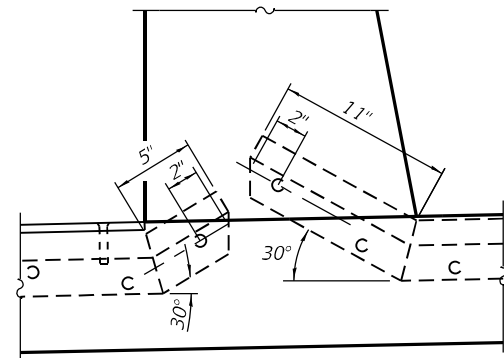
SHEET SA-12 OF SA-16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62T04	
		ILLINOIS FED. AID PROJECT		

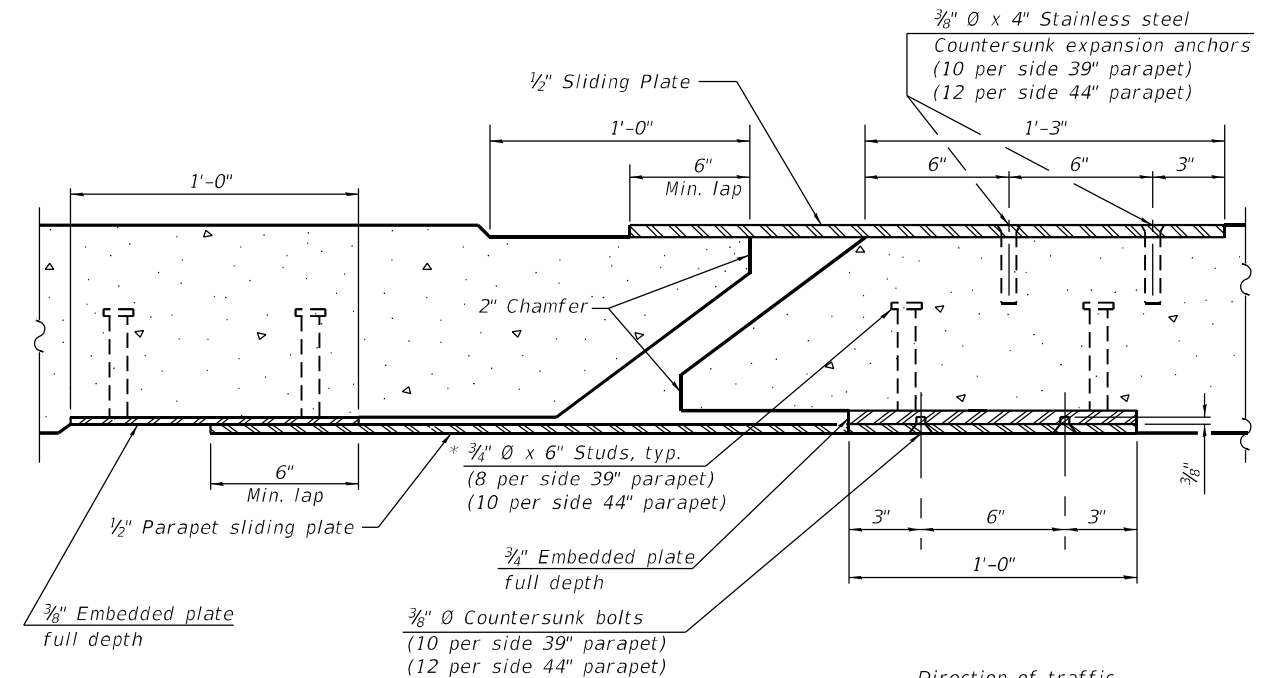


SECTION AT DECK LEVEL SIDEWALK

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

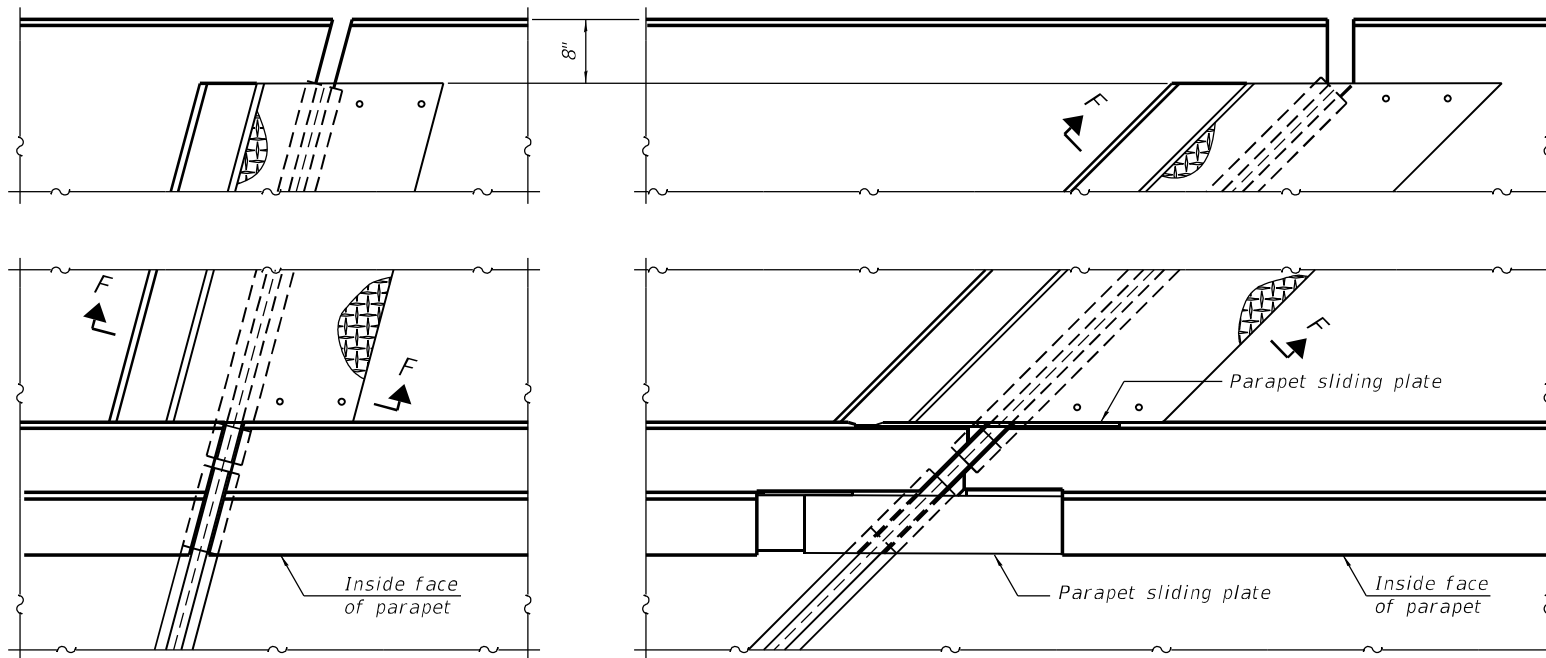


DETAIL B



SECTION E-E

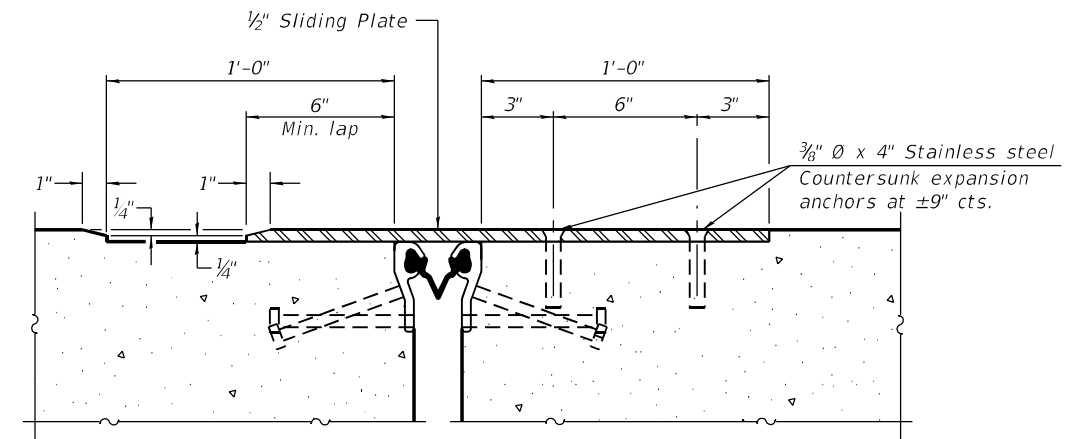
Direction of traffic



(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

PLAN AT DECK LEVEL SIDEWALK



SECTION F-F

*Prior to 1/4 inch grinding

EJ-SS-S

11-1-2022

(Sheet 3 of 3)



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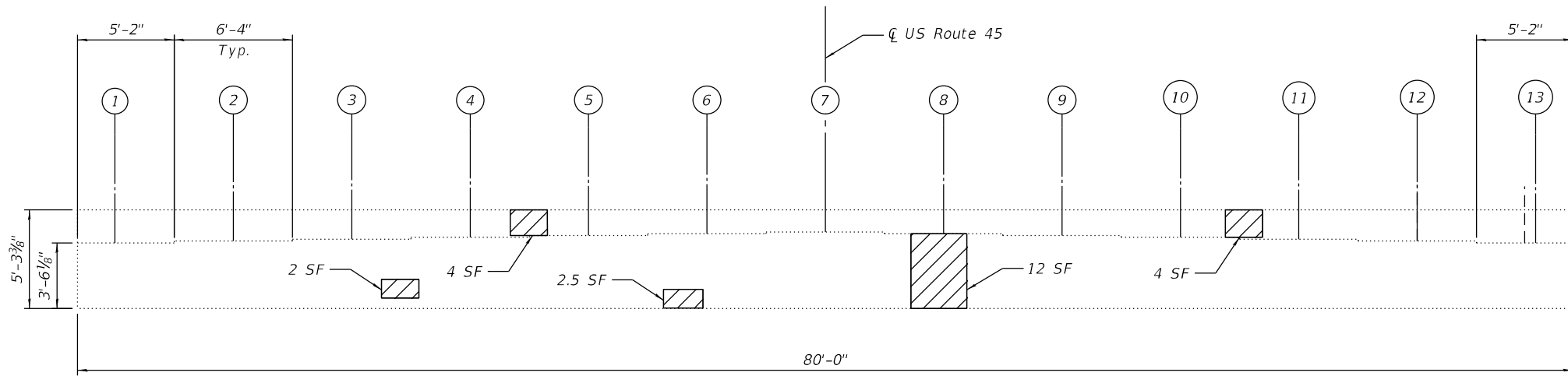
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JT. STRIP SEAL (SHEET 3 OF 3)
STRUCTURE NO. 099-0293

SHEET SA-13 OF SA-16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	0330-22-BJ2	COOK	46	34
CONTRACT NO. 62T04				

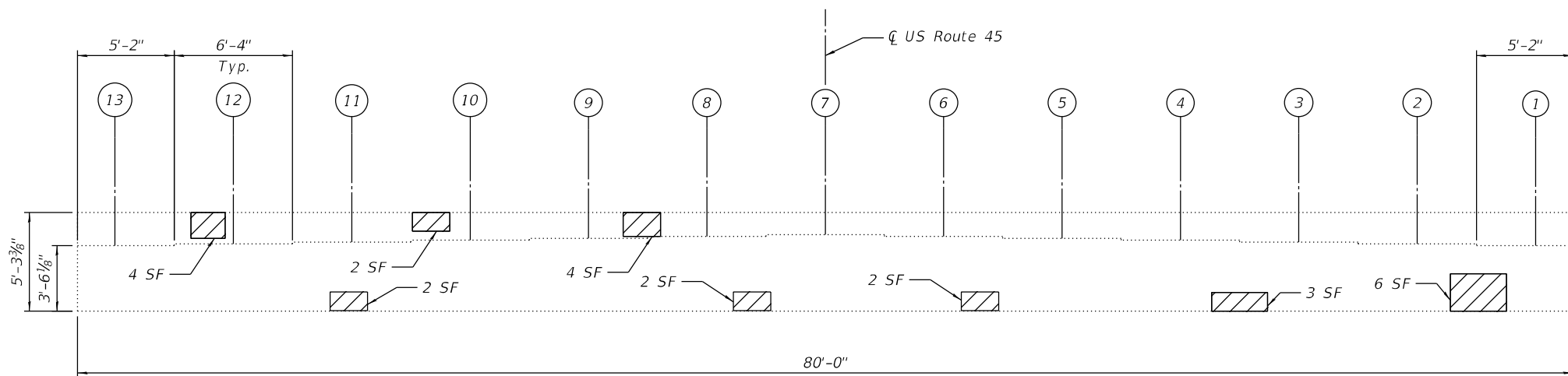
ILLINOIS FED. AID PROJECT



NORTH ABUTMENT ELEVATION
(Looking North)

NORTH ABUTMENT BILL OF MATERIAL

ITEM	UNIT	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	24.5



SOUTH ABUTMENT ELEVATION
(Looking South)

SOUTH ABUTMENT BILL OF MATERIAL

ITEM	UNIT	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	25

NOTES:

- Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.

LEGEND

- Structural Repair of Concrete (Depth Equal to or less than 5")
- SF Square Foot

MODEL: Default
FILE NAME: O:\Engineering\Live\Projects\20005_IDOT DUR\WO 44 - 62T04_US 45 over Hickory Creek\03_CADD\01_Sheets\Structural\099-0293-62T04-01-4-North and South Abutment Repairs.dgn



USER NAME =	DESIGNED - ME	REVISED -
	CHECKED - MAF	REVISED -
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PLOT DATE =	CHECKED - MAF	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

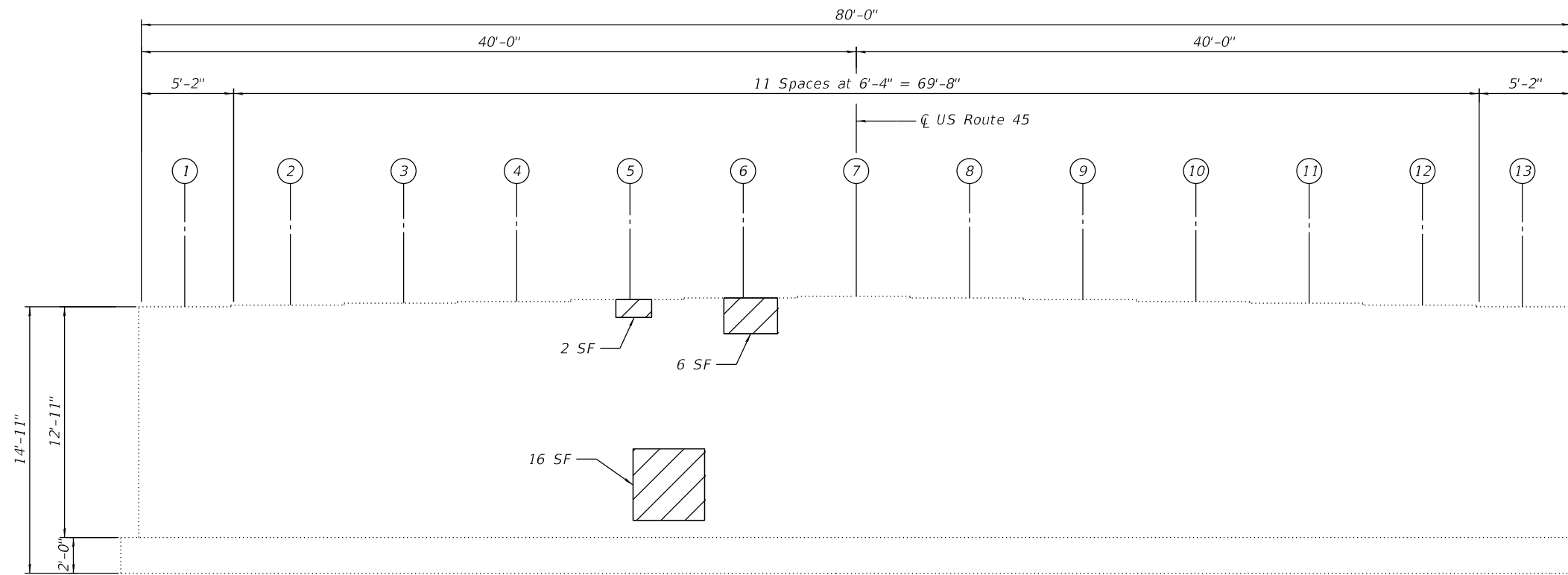
**N. AND S. ABUTMENT REPAIRS
STRUCTURE NO. 099-0293**

SHEET SA-14 OF SA-16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	0330-22-BJ2	COOK	46	35
			CONTRACT NO. 62T04	
		ILLINOIS	FED. AID PROJECT	

BILL OF MATERIAL

ITEM	UNIT	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	40



PIER ELEVATION
(South Face Looking North)



PIER ELEVATION
GENERAL VIEW



SPALL AT SOUTH FACE

LEGEND

- Structural Repair of Concrete (Depth Equal to or less than 5")
- SF Square Foot

NOTES:

1. Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
2. Structural repair of concrete (Depth Equal to or Less Than 5 Inches) quantity was rounded up to an estimated value of 40 sq ft as per IDOT direction. The actual areas to be repaired, and their location will be determined by the Engineer in the field at the time of construction.

MODEL: Default
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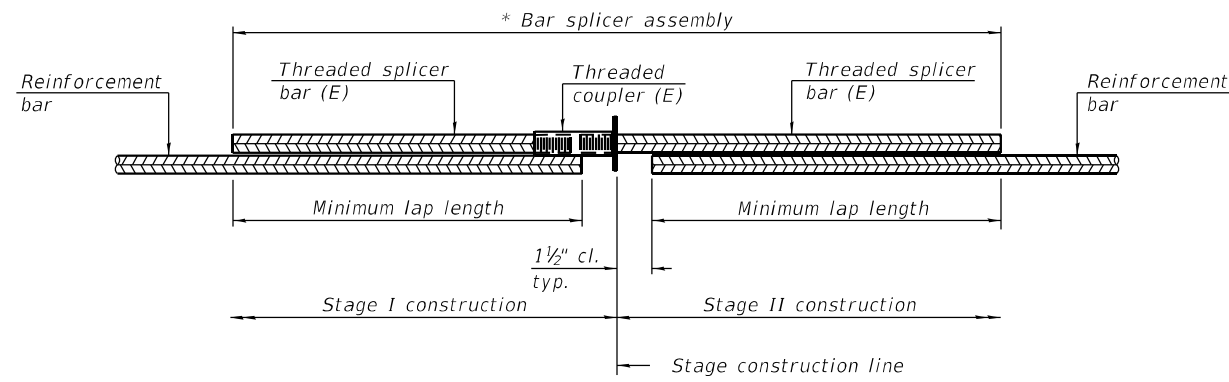
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER REPAIRS
STRUCTURE NO. 099-0293

SHEET SA-15 OF SA-16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	0330-22-BJ2	COOK	46	36
CONTRACT NO. 62T04				
ILLINOIS		FED. AID PROJECT		



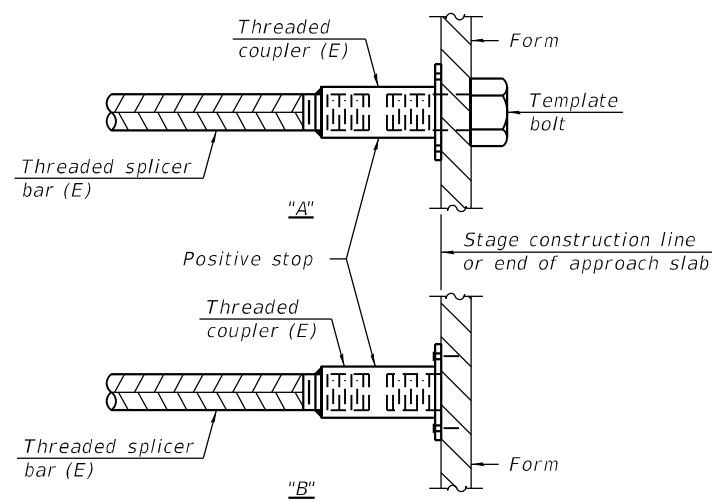
STANDARD BAR SPLICER ASSEMBLY PLAN

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
N. Joint	#5	14	3'-6"
N. Joint	#6	8	4'-0"
S. Joint	#5	14	3'-6"
S. Joint	#6	8	4'-0"

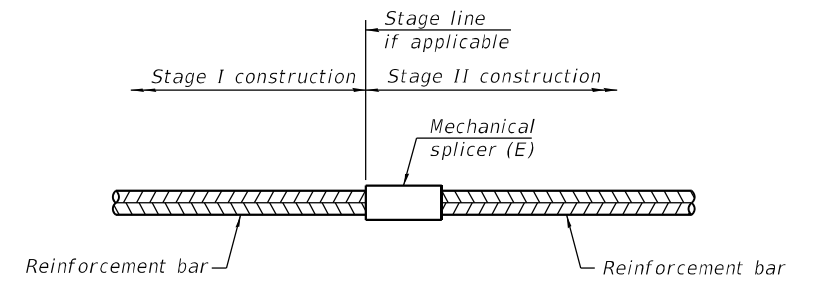


INSTALLATION AND SETTING METHODS

"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
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BSD-1

2-1-2023



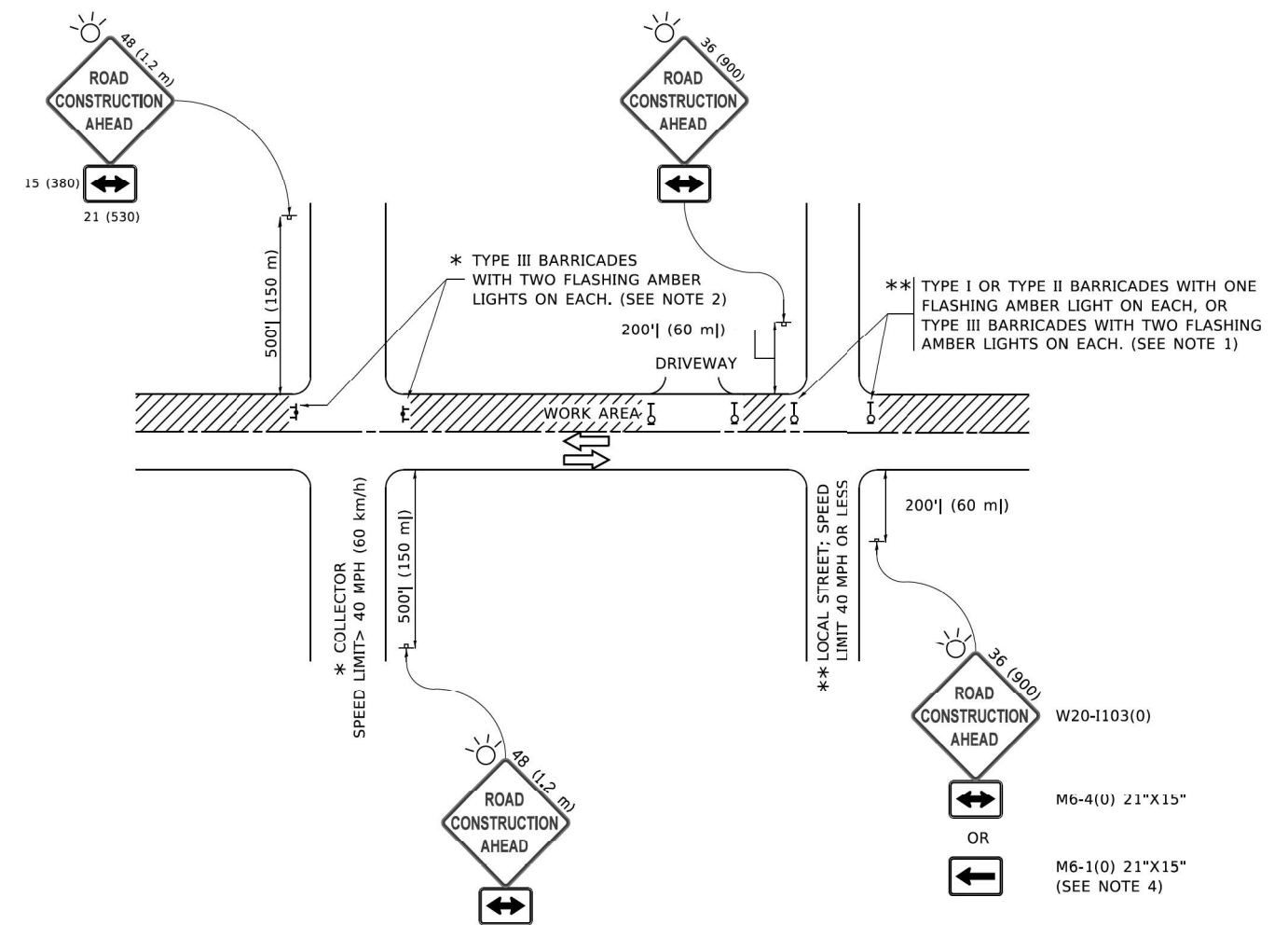
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PLOT DATE =	CHECKED - MAF	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY DETAILS
STRUCTURE NO. 099-0293**

SHEET SA-16 OF SA-16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	0330-22-BJ2	COOK	46	37
CONTRACT NO. 62T04			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).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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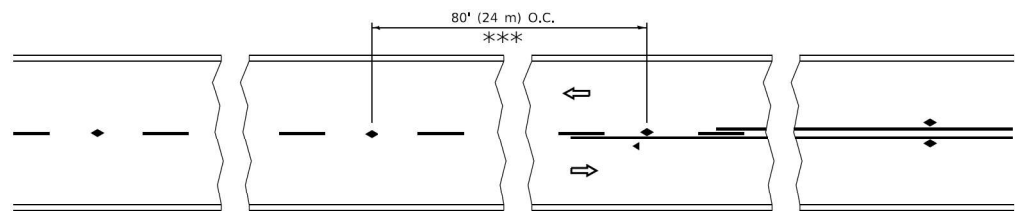
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PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

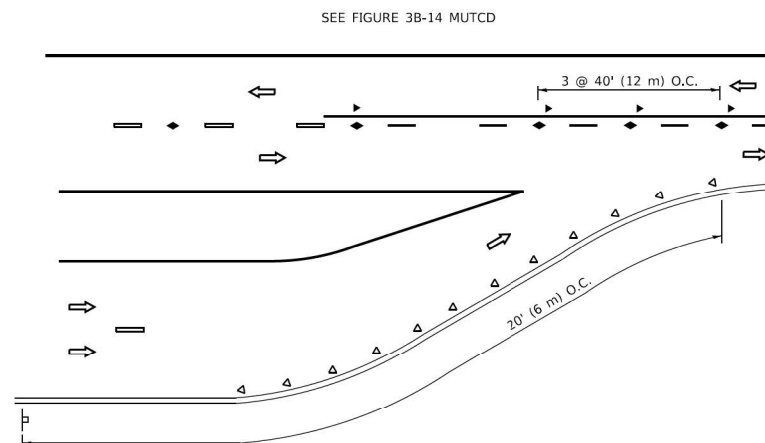
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TC-10			CONTRACT NO. 62T04	
ILLINOIS FED. AID PROJECT				

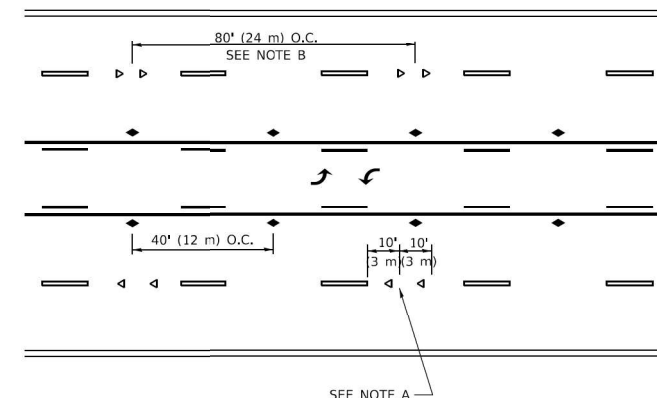


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

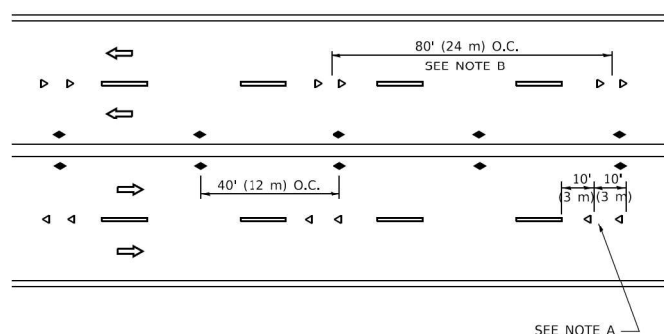
TWO-LANE/TWO-WAY



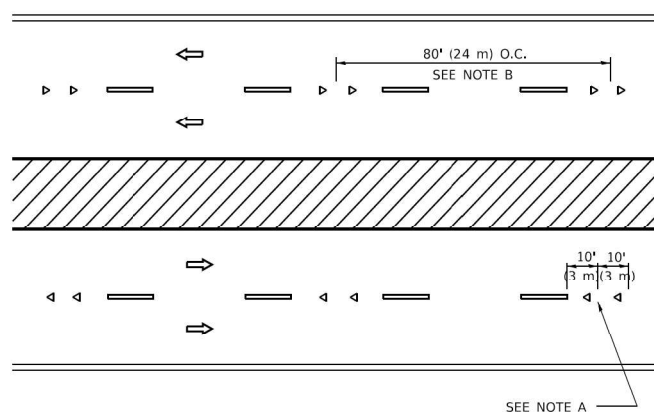
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

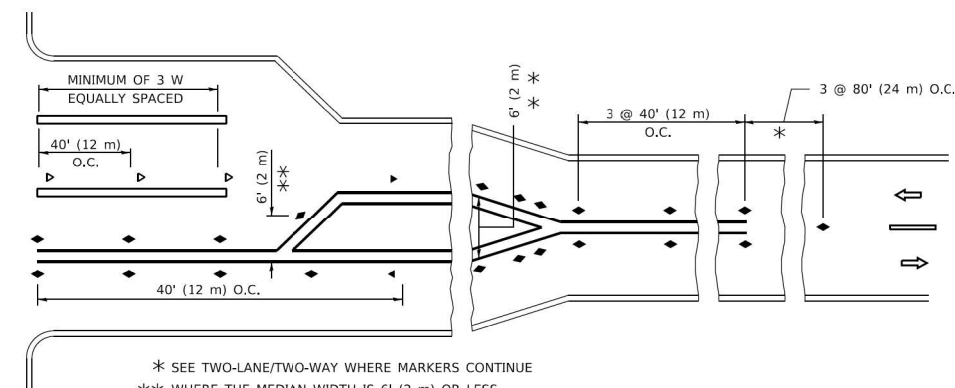
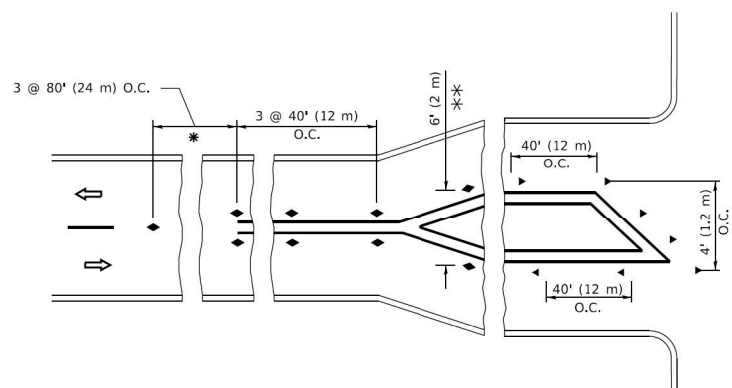
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



TURN LANES

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

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

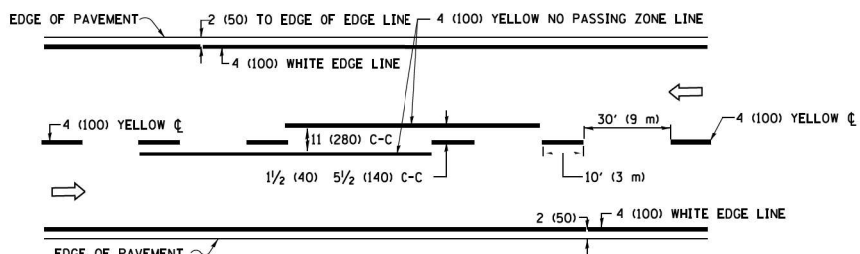
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED - C. JUCIUS 09-09-09
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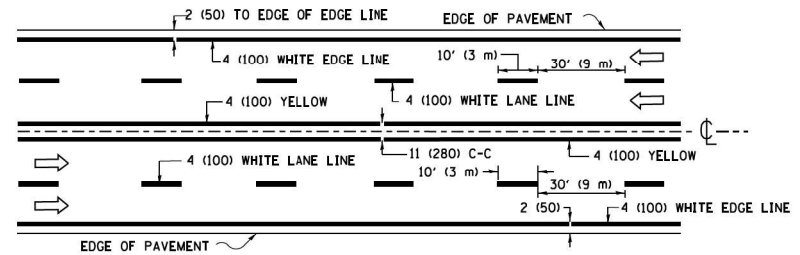
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
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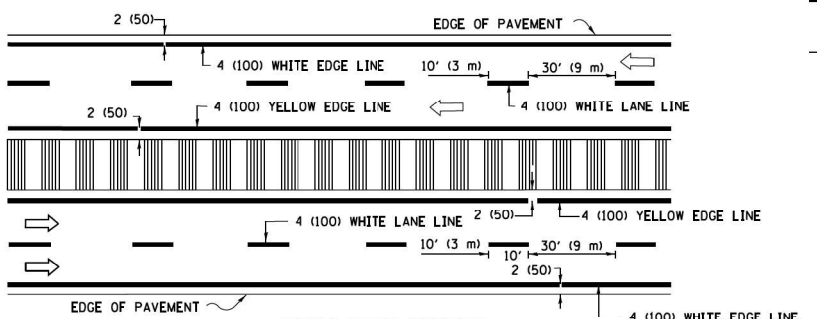
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330	FAP 0330 22 B12	WILL	46	42
TC-11			CONTRACT NO. 62T04	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

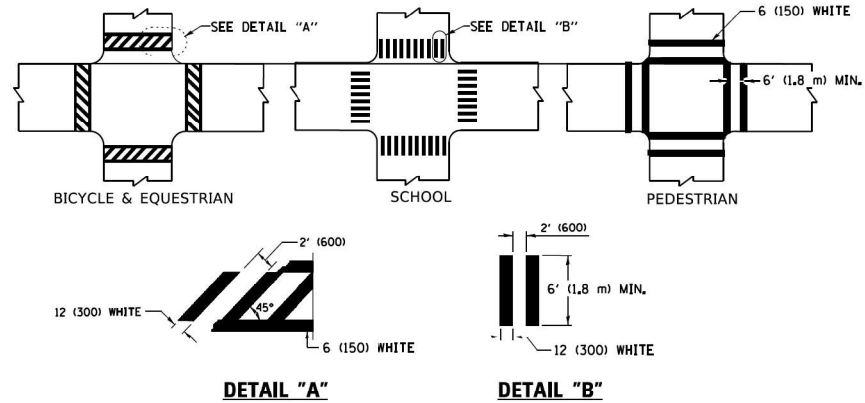


MULTI-LANE UNDIVIDED



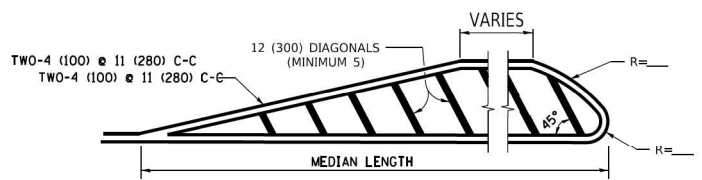
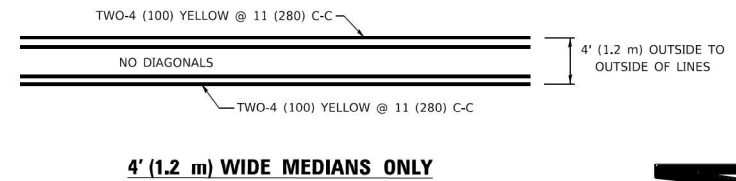
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

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

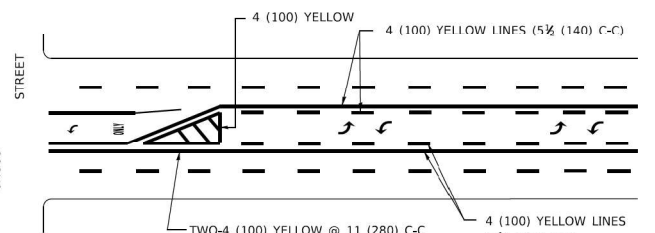


MEDIANS OVER 4' (1.2 m) WIDE

FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

TYPICAL PAINTED MEDIAN MARKING

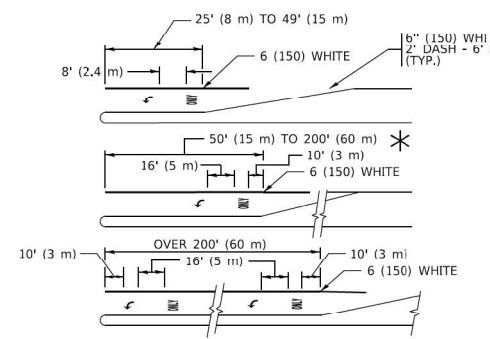


MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

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 LEFT (OR RIGHT) TURN LANE

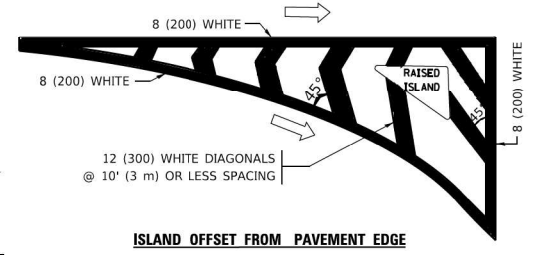
TYPICAL TURN LANE MARKING



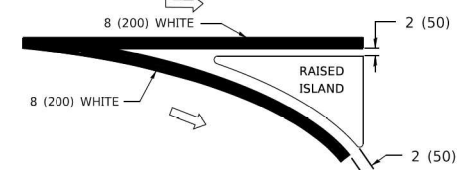
FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - *ONLY* INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - *ONLY*.

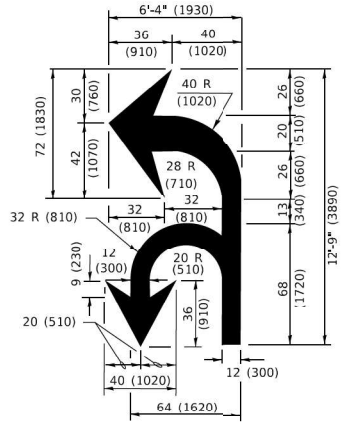
TYPICAL TURN LANE MARKING



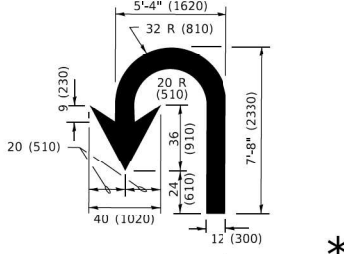
ISLAND AT PAVEMENT EDGE



TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	7 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: *R* 15' 6" (1.8 m) LETTERS; 16 (400) LINE FOR *X*	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R*=3.6 SQ. FT. (0.33 m ²) EACH *X*=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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DRAWN -	REVISED - C. JUCIUS 07-01-13	REVISED - C. JUCIUS 07-01-13
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED - C. JUCIUS 12-21-15
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE		F.A.P. RTE. 330	SECTION FAP 0330 22 B12	COUNTY WILL	TOTAL SHEETS 46	SHEET NO. 43
TYPICAL PAVEMENT MARKINGS		TC-13		CONTRACT NO. 62T04		
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TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

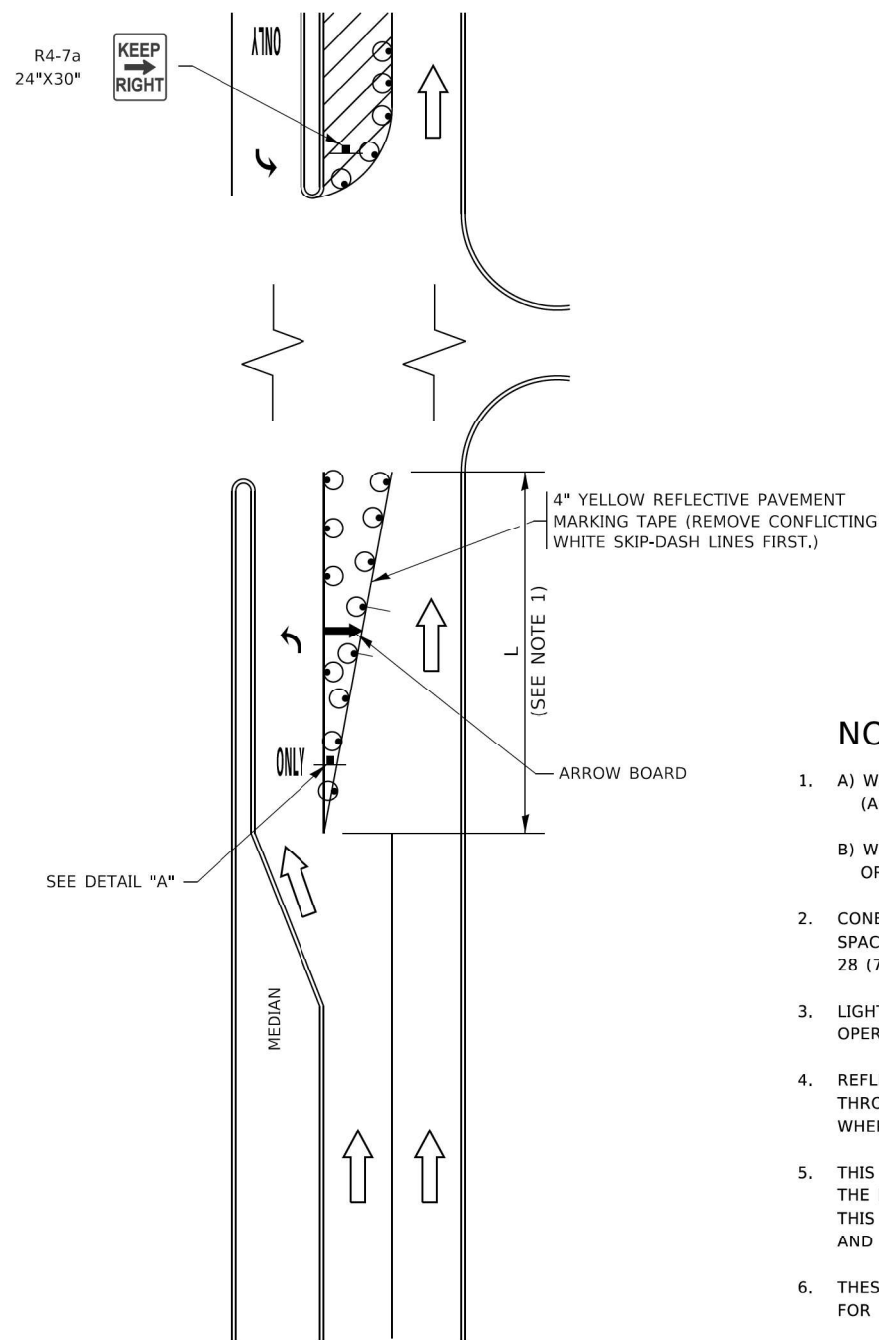


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

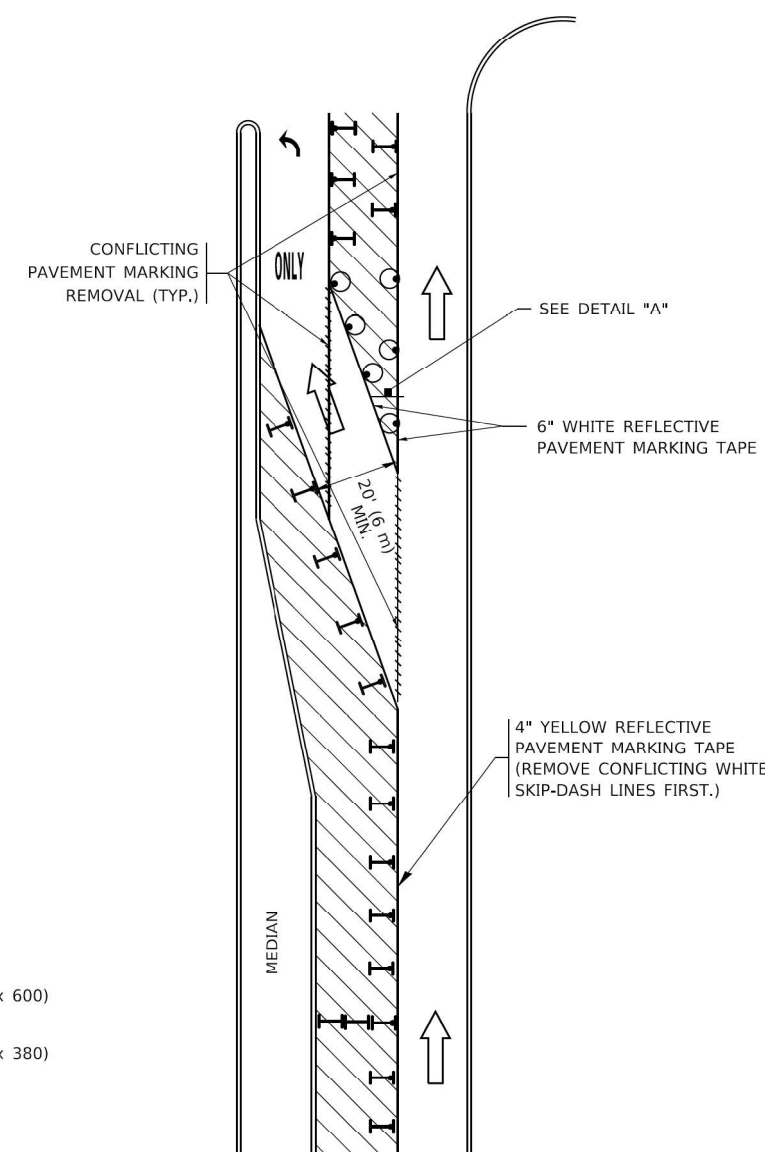


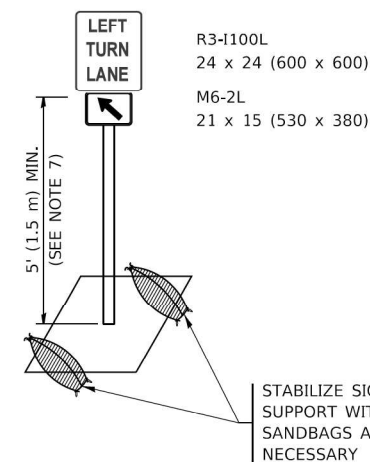
FIGURE 2

LEGEND

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

NOTES:

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



DETAIL A

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

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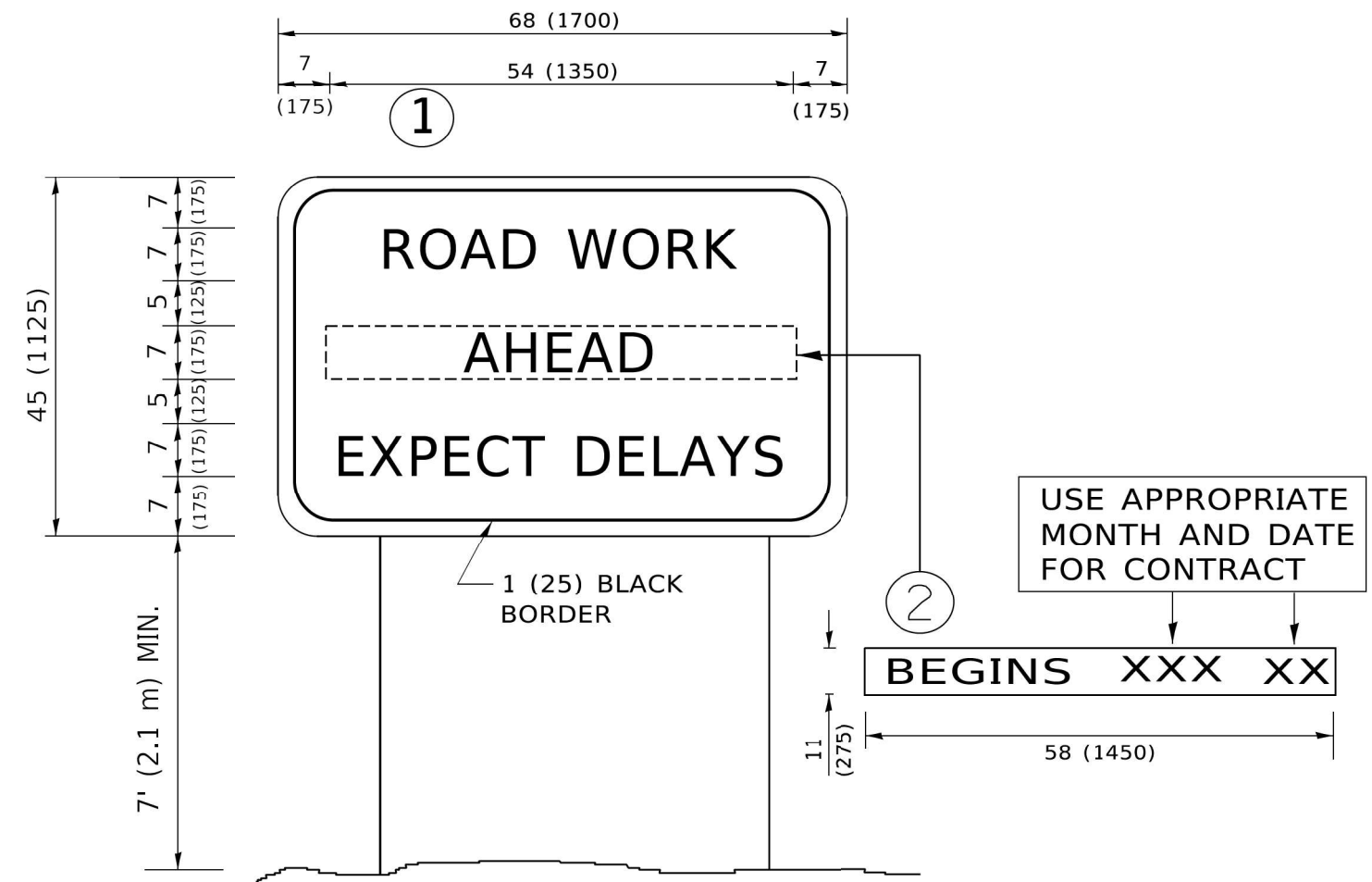
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PLOT SCALE = 50,0000' / 1"	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.P. RTE. 330	SECTION FAP 0330 22 B12	COUNTY WILL	TOTAL SHEETS 46	SHEET NO. 44
TC-14		CONTRACT NO. 62T04		
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: TC-22
FILE: \\mme\c\engineer\proj\bus\ref\62T04\62T04_62T04_US_45_ever_History_Cross\03_CADD\01_Sheet\Sheet\62T04_62T04_62T04_US_45_ever_History_Cross.dwg

USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50,0000 ' / ft.	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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	FAP 0330 22 B12	WILL	46	46
TC-22			CONTRACT NO. 62T04	
ILLINOIS FED. AID PROJECT				

