

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. 345 US 20 (LAKE STREET)
SECTION 8R-1-RS-4
EAST OF WELD RD. TO WEST OF SHALES PARKWAY
BRIDGE REPAIRS AND RESURFACING

COOK AND KANE COUNTIES
C-91-113-11

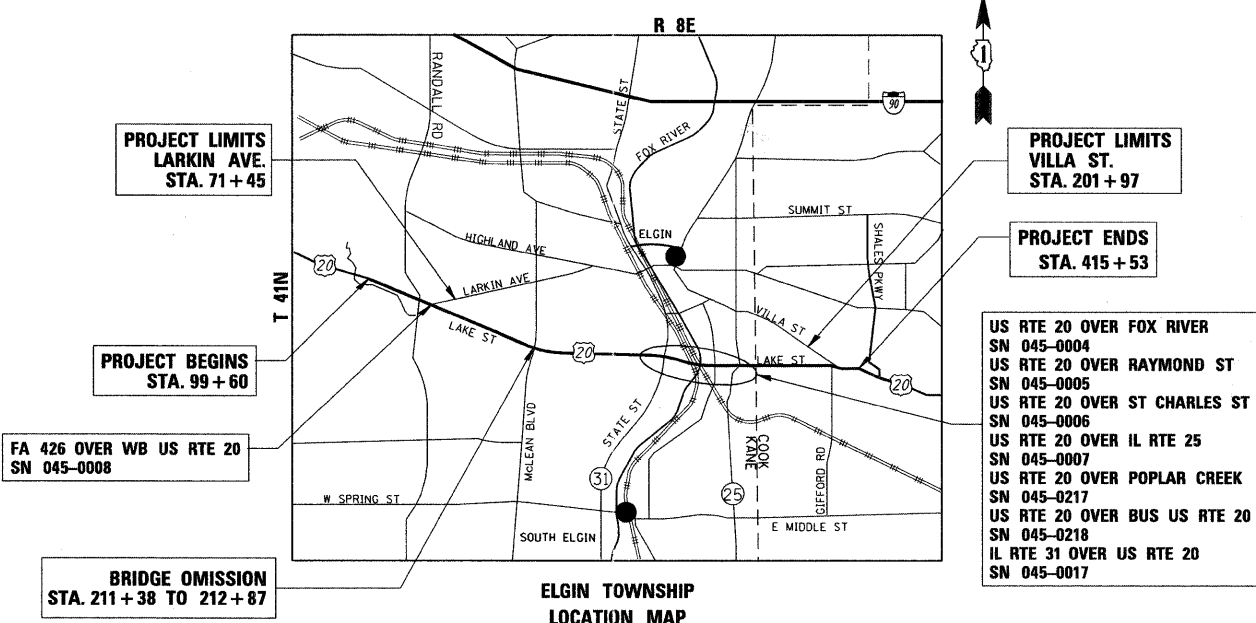
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	8R-1-RS-4	KANE/COOK	124	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	60M46	
D-91-113-11		# 124-2 = 122		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

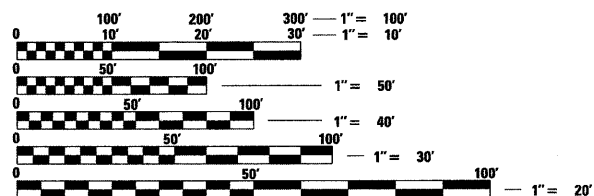
THIS IMPROVEMENT IS LOCATED
WITHIN THE CITY OF ELGIN

TRAFFIC DATA

2007 ADT: 30,000-58,200
POSTED SPEED LIMIT - 55 MPH



- US RTE 20 OVER FOX RIVER SN 045-0004
- US RTE 20 OVER RAYMOND ST SN 045-0005
- US RTE 20 OVER ST CHARLES ST SN 045-0006
- US RTE 20 OVER IL RTE 25 SN 045-0007
- US RTE 20 OVER POPLAR CREEK SN 045-0217
- US RTE 20 OVER BUS US RTE 20 SN 045-0218
- IL RTE 31 OVER US RTE 20 SN 045-0017



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

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

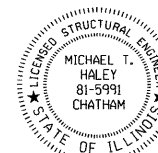
ABNA ENGINEERING, INC.
ROBERT J. LOEHR, S.E.
3992
Robert J. Loehr
DATE: 03/31/2011
SIGNATURE AND SEAL APPLIES TO DRWG NO 101 TO 108



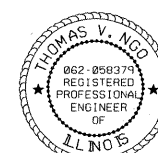
ABNA ENGINEERING, INC.
THOMAS P. PAOLICCHI, P.E.
062-056747
Thomas P. Paolicchi
DATE: 03/31/2011
SIGNATURE AND SEAL APPLIES TO DRWG NO 109 TO 111



LIN ENGINEERING, LTD.
MICHAEL T. HALEY, S.E.
81-5991
Michael T. Haley
DATE: 03/31/2011
SIGNATURE AND SEAL APPLIES TO DRWG NO 69 TO 100



MILLENNIA PROFESSIONAL SERVICES
THOMAS V. NCO, P.E.
062-058379
Thomas V. NCO
DATE: 03/31/2011
SIGNATURE AND SEAL APPLIES TO DRWG NO 1 TO 68



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED MARCH 30, 20 11

Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 13 20 11

Scott E. Stett, P.E.
Acting ENGINEER OF DESIGN AND ENVIRONMENT

May 13 20 11

Christine N. Rodola
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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MILLENNIA PROFESSIONAL SERVICES

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OF THE STATE OF ILLINOIS**

DISTRICT ONE - PLAN PREP ENGINEER: KEN ENG (847) 705-4247

CONTRACT NO. 60M46

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LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-00	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS > 45 MPH
701400-05	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-06	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-08	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701406-06	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-07	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701421-03	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY FOR SPEEDS > OR = 45 MPH TO 55 MPH
701426-04	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS > OR = 45 MPH
701901-01	TRAFFIC CONTROL DEVICES
704001-06	TEMPORARY CONCRETE BARRIERS
720001-01	SIGN PANEL MOUNTING DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001-01	APPLICATIONS OF TYPE A AND B METAL POSTS (FOR SIGNS AND MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS

COMMITMENTS

NO COMMITMENTS FOR THIS PROJECT

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES, CITY OF ELGIN.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
5. ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. NO ADDITIONAL COST TO THE DEPARTMENT.
6. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
7. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
9. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
10. THE ENGINEER SHALL CONTACT DON CHIARUGI, THE TRAFFIC FIELD ENGINEER AT (847) 741-9857 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
11. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
12. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
13. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN ON THE PLANS.
14. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
15. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.
16. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND IT'S REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.
17. THE CONTRACTOR SHALL PLACE PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT 1 TYPICAL PAVEMENT MARKINGS DETAIL (TC-13).
18. THE RESIDENT ENGINEER AND CONTRACTOR SHALL VERIFY ALL EXISTING PAVEMENT MARKING PRIOR TO THE PROJECT STARTING. IF A DISCREPANCIES OCCURS BETWEEN EXISTING PAVEMENT MARKINGS AND THE PROPOSED PAVEMENT MARKINGS, THE RESIDENT ENGINEER SHALL CONTACT THE BUREAU OF TRAFFIC OPERATIONS. CCCC

FILE NAME = P:\2009\ME09006_Ver-Ver-PRINT\CADD\W021.US20.Shts\02-Index-Notes.dgn
 PLOT SCALE = 1:8000 / IN.
 USER NAME = Millennium Professional Services



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DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE	4/1/2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

INDEX OF SHEETS, HIGHWAY
STANDARDS, GENERAL NOTES,
AND COMMITMENTS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	8R-1-RS-4	KANE/COOK	124	2
CONTRACT NO.			60M46	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				


SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

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CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE									
				URBAN		KANE CO.				COOK CO.		KANE CO.	
				KANE CO. ROADWAY	COOK CO. ROADWAY	US RTE 20 OVER FOX RIVER 045-0004	US RTE 20 OVER RAYMOND ST 045-0005	US RTE 20 OVER ST CHARLES ST 045-0006	US RTE 20 OVER IL RTE 25 045-0007	US RTE 20 OVER POPLAR CREEK 016-0217	US RTE 20 OVER US BUS US 20 016-0218	IL RTE 31 OVER US RTE 20 045-0017	FA 426 OVER WB US RTE 20 045-0008
28100805	STONE DUMPED RIPRAP, CLASS A3	TON	12	-	-	-	-	-	-	12	-	-	-
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	120	88	31	-	-	-	-	-	-	1	-
40600300	AGGREGATE (PRIME COAT)	TON	591	437	154	-	-	-	-	-	-	-	-
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	444	328	116	-	-	-	-	-	-	-	-
40600982	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	SO YD	669	497	172	-	-	-	-	-	-	-	-
40600985	CONCRETE SURFACE REMOVAL - BUTT JOINT	SO YD	690	690	-	-	-	-	-	-	-	-	-
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	453	362	91	-	-	-	-	-	-	-	-
40603153	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80	TON	21984	15855	6129	-	-	-	-	-	-	-	-
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	11,318	8,644	2,653	-	-	-	-	-	-	31	-
42001300	PROTECTIVE COAT	SO YD	150	-	-	-	-	-	-	-	-	-	150
42001500	P.C CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT	SO YD	20	-	-	-	-	-	-	-	-	-	20
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO. YD.	368	-	-	-	-	-	-	-	-	368	-
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	132,331	100,746	31,585	-	-	-	-	-	-	-	-
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SO YD	162840	117440	45400	-	-	-	-	-	-	-	-
44002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4"	SO YD	2688	1881	807	-	-	-	-	-	-	-	-
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SO YD	101	71	30	-	-	-	-	-	-	-	-
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	1704	1200	504	-	-	-	-	-	-	-	-
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	272	211	61	-	-	-	-	-	-	-	-
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	75	50	25	-	-	-	-	-	-	-	-
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	3864	3004	860	-	-	-	-	-	-	-	-
50102400	CONCRETE REMOVAL	CU. YD.	46	-	-	-	-	-	-	14	-	-	32
50157300	PROTECTIVE SHIELD	SO. YD.	2532	-	-	600	658	539	-	539	-	-	196
X5017305	PROTECTIVE SHIELD (PERMANENT)	SO. YD.	911	-	-	468	-	-	-	-	443	-	-
50300255	CONCRETE SUPERSTRUCTURE	CU YD	46	-	-	-	-	-	-	14	-	-	32
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	2700	-	-	-	-	-	-	-	-	-	2700
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	6350	-	-	-	-	-	-	2010	-	-	4340
50800515	BAR SPLICERS	EACH	24	-	-	-	-	-	-	24	-	-	-
51100300	SLOPE WALL 6 INCH	SO. YD.	26.4	-	-	-	-	-	26.4	-	-	-	-
52000110	PREFORMED JOINT STRIP SEAL	FOOT	301	-	-	-	-	-	-	112	-	-	189
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	15	-	-	-	-	-	-	-	-	-	15
52100520	ANCHOR BOLTS, 1"	EACH	30	-	-	-	-	-	-	-	-	-	30
58700300	CONCRETE SEALER	SO. FT.	10471	-	-	-	-	-	-	10471	-	-	-

* SPECIALTY ITEM

FILE NAME : P:\2009\ME09086-Ver-Vor-PH\1\CADD\W021\US20\Shas\03-500sh-t-nt-US20.dgn
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 USER NAME : Millennia Professional Services



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DATE - 4/4/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	3
CONTRACT NO. 60M46			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE										
			URBAN	KANE CO.		COOK CO.		KANE CO.		COOK CO.		KANE CO.	
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	KANE CO. ROADWAY	COOK CO. ROADWAY	US RTE 20 OVER FOX RIVER 045-0004	US RTE 20 OVER RAYMOND ST 045-0005	US RTE 20 OVER ST CHARLES ST 045-0006	US RTE 20 OVER IL RTE 25 045-0007	US RTE 20 OVER POPLAR CREEK 016-0217	US RTE 20 OVER US BUS US 20 016-0218	IL RTE 31 OVER US RTE 20 045-0017	FA 426 OVER WB US RTE 20 045-0008
60404950	FRAMES AND GRATES, TYPE 24	EACH	15	10	5	-	-	-	-	-	-	-	-
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	5	5	-	-	-	-	-	-	-	-	-
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8	-	-	-	-	-	-	-	-	-
67100100	MOBILIZATION	L SUM	1	1	-	-	-	-	-	-	-	-	-
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1	-	-	-	-	-	-	-	-	-
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	0.50	-	-	-	-	-	-	-	-	0.50
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.50	0.50	-	-	-	-	-	-	-	-
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.50	0.50	-	-	-	-	-	-	-	-
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	0.50	0.50	-	-	-	-	-	-	-	-
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	0.50	0.50	-	-	-	-	-	-	-	-
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.50	0.50	-	-	-	-	-	-	-	-
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	98	60	-	-	-	-	-	-	-	-	38
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	8	6	2	-	-	-	-	-	-	-	-
72000100	SIGN PANEL - TYPE 1	SO FT	666	573	93	-	-	-	-	-	-	-	-
72000200	SIGN PANEL - TYPE 2	SO FT	693	573	120	-	-	-	-	-	-	-	-
72000300	SIGN PANEL - TYPE 3	SO FT	2017	1703	314	-	-	-	-	-	-	-	-
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	40	35	5	-	-	-	-	-	-	-	-
72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	55	45	10	-	-	-	-	-	-	-	-
72400310	REMOVE SIGN PANEL - TYPE 1	EACH	54	46	8	-	-	-	-	-	-	-	-
72400320	REMOVE SIGN PANEL - TYPE 2	EACH	10	9	1	-	-	-	-	-	-	-	-
72400330	REMOVE SIGN PANEL - TYPE 3	SO FT	1696	1412	284	-	-	-	-	-	-	-	-
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	114	104	10	-	-	-	-	-	-	-	-
73000100	WOOD SIGN SUPPORT	FOOT	1516	1266	250	-	-	-	-	-	-	-	-
73700100	REMOVE GROUND MOUNTED SIGN SUPPORT	EACH	4	4	-	-	-	-	-	-	-	-	-
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	6390	5609	781	-	-	-	-	-	-	-	-
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	220	220	-	-	-	-	-	-	-	-	-
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	310276	254596	55680	-	-	-	-	-	-	-	-
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1600	1200	-	-	-	-	-	-	-	-	400
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	51420	47724	3696	-	-	-	-	-	-	-	-
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	12720	12300	420	-	-	-	-	-	-	-	-
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	480	480	-	-	-	-	-	-	-	-	-
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	2130	1870	260	-	-	-	-	-	-	-	-

* SPECIALTY ITEM

FILE NAME = P:\2009\ME090806_Ver_Ver_Phil\CADD\W021\US20\Shets\03-500sht-sht-US20.dgn
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MILLENNIA PROFESSIONAL SERVICES

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DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 4/4/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 20
EAST OF PLANK ROAD TO WELD ROAD
 SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

SUMMARY OF QUANTITIES

F.A.P. RTE. 345	SECTION 8WRS-2	COUNTY KANE	TOTAL SHEETS 124	SHEET NO. 4
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. W021	

Rev.

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CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE										
				URBAN		KANE CO.		COOK CO.		KANE CO.		KANE CO.		
				KANE CO. ROADWAY	COOK CO. ROADWAY	US RTE 20 OVER FOX RIVER	US RTE 20 OVER RAYMOND ST	US RTE 20 OVER ST CHARLES ST	US RTE 20 OVER IL RTE 25	US RTE 20 OVER POPLAR CREEK	US RTE 20 OVER US BUS US 20	IL RTE 31 OVER US RTE 20	FA 426 OVER WB US RTE 20	
		045-0004	045-0005	045-0006	045-0007	016-0217	016-0218	045-0017	045-0008					
70400100	TEMPORARY CONCRETE BARRIER	FOOT	4857	3643	594	-	-	-	-	-	-	-	-	620
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	4237	3643	594	-	-	-	-	-	-	-	-	-
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	110	110	-	-	-	-	-	-	-	-	-	-
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	155138	127298	27840	-	-	-	-	-	-	-	-	-
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	600	600	-	-	-	-	-	-	-	-	-	-
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	25710	23862	1848	-	-	-	-	-	-	-	-	-
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	6360	6150	210	-	-	-	-	-	-	-	-	-
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	240	240	-	-	-	-	-	-	-	-	-	-
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	7189	5603	1116	-	-	-	-	-	-	-	-	470
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1657	1312	345	-	-	-	-	-	-	-	-	-
78100105	RAISED REFLECTIVE PAVEMENT MARKER(BRIDGE)	EACH	107	80	22	-	-	-	-	-	-	-	-	5
78200530	BARRIER WALL MARKERS, TYPE C	EACH	743	508	137	-	-	-	-	-	-	-	-	98
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1713	1352	356	-	-	-	-	-	-	-	-	5
88600600	DETECTOR LOOP REPLACEMENT	FOOT	2218	2218	-	-	-	-	-	-	-	-	-	-
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	966	751	215	-	-	-	-	-	-	-	-	-
X0012102	CONCRETE BRIDGE DECK SCARIFICATION (3/8 INCH)	SO YD	530	-	-	-	-	-	-	-	-	-	-	530
X0320882	GUTTERS TO BE CLEANED	FOOT	70	-	-	70	-	-	-	-	-	-	-	-
X0322215	CLEANING BRIDGE SCUPPERS AND DOWNSPOUTS	EACH	4	-	-	-	-	-	-	4	-	-	-	-
X0322944	BRIDGE DECK THIN POLYMER OVERLAY 3/8"	SO YD	530	-	-	-	-	-	-	-	-	-	-	530
X0600895	CONSTRUCT ^{YNG} TEST STRIP	EACH	1	0.8	0.2	-	-	-	-	-	-	-	-	-
X0325490	FURNISH AND INSTALL ACCESS DOOR	EACH	1	-	-	1	-	-	-	-	-	-	-	-
X0325983	BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 2 1/4"	SO YD	362	-	-	-	-	-	-	-	-	-	-	362
X0326331	CLEANING AND PAINTING BEARINGS	SO YD	15	-	-	-	-	-	-	-	-	-	-	15
X0326394	FLOOR DRAINS TO BE CLEANED	EACH	30	-	-	-	8	8	8	-	6	-	-	-
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL VARIABLE DEPTH	SO YD	2809	2809	-	-	-	-	-	-	-	-	-	-
X4060826	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	15954	11335	4619	-	-	-	-	-	-	-	-	-
X55039700	STORM SEWERS TO BE CLEANED	FOOT	1152	1008	144	-	-	-	-	-	-	-	-	-
X60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	10	10	-	-	-	-	-	-	-	-	-	-
X0640200	TRAFFIC BARRIER TERMINAL, SPECIAL	EACH	1	-	-	-	-	-	-	1	-	-	-	-
X7030030	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	5200	-	-	-	-	-	-	-	-	-	-	5200
Z0001495	BRIDGE APPROACH SHOULDER REMOVAL	SO YD	20	-	-	-	-	-	-	-	-	-	-	20
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	15	-	-	-	-	-	-	-	-	-	-	15

* SPECIALTY ITEM

FILE NAME = P:\2009\ME\090806_Ver_Ver_Phil\CADD\W021\US20\Shets\03-500dht-ht-US20.dgn
 PLOT SCALE = 1:8000 / IN.
 USER NAME = Millennium Professional Services



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MILLENNIA PROFESSIONAL SERVICES

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CHECKED - RPD	REVISED -
DATE - 4/5/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 20
EAST OF PLANK ROAD TO WELD ROAD
 SCALE: SHEET NO. OF SHEETS STA. TO STA.

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	8WRS-2	KANE	124	5
CONTRACT NO.			60006	

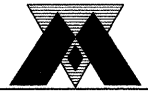
Rev.

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE											
				URBAN		KANE CO. COOK CO. KANE CO.									
				KANE CO. ROADWAY	COOK CO. ROADWAY	US RTE 20 OVER FOX RIVER 045-0004	US RTE 20 OVER RAYMOND ST 045-0005	US RTE 20 OVER ST CHARLES ST 045-0006	US RTE 20 OVER IL RTE 25 045-0007	US RTE 20 OVER POPLAR CREEK 016-0217	US RTE 20 OVER US BUS US 20 016-0218	IL RTE 31 OVER US RTE 20 045-0017	FA 426 OVER WB US RTE 20 045-0008		
0005	0005	0014	0014	0014	0014	0014	0014	0014	0014	0014					
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	310	250	60	-	-	-	-	-	-	-	-	-	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 IN.)	SO. FT.	499	-	-	10	27	-	-	6	55	-	-	401	
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 IN.)	SO. FT.	172	-	-	73	-	-	-	-	-	-	-	99	
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SO. YD.	0.7	-	-	-	-	0.7	-	-	-	-	-	-	
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO. YD.	132.5	-	-	25.1	-	79.1	-	13.3	-	-	-	15	
Z0016200	DECK SLAB REPAIR (PARTIAL)	SO. YD.	491.5	-	-	246.9	21.7	100.4	39.7	50.8	9.1	22.9	-	-	
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	1	-	-	1	-	-	-	-	-	-	-	-	
Z0018400	DRAINAGE STRUCTURES TO BE ADJUSTED	EACH	35	35	-	-	-	-	-	-	-	-	-	-	
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	94	82	12	-	-	-	-	-	-	-	-	-	
Z0021904	SILICONE JOINT SEALER, 1"	FOOT	307	-	-	-	-	155	152	-	-	-	-	-	
Z0021907	SILICONE JOINT SEALER, 1 3/4"	FOOT	382	-	-	-	87	76	77	-	-	-	142	-	
Z0021908	SILICONE JOINT SEALER, 2"	FOOT	167	-	-	-	-	-	-	167	-	-	-	-	
Z0021914	SILICONE JOINT SEALER, 2 3/4"	FOOT	231	-	-	-	78	79	74	-	-	-	-	-	
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	-	-	-	-	-	-	-	-	-	-	2	
Z0030255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	6	4	2	-	-	-	-	-	-	-	-	-	
Z0030320	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 2	EACH	6	4	2	-	-	-	-	-	-	-	-	-	
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	363.7	286	52	-	-	-	-	-	-	-	-	25.7	
Z0041895	POLYMER CONCRETE	CU. FT.	11.4	-	-	-	-	-	-	11.4	-	-	-	-	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	-	-	-	-	-	-	-	-	-	-	
Z0055400	RUMBLE STRIP	FOOT	68255	54394	13861	-	-	-	-	-	-	-	-	-	
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	6	-	-	-	1	-	-	-	-	-	-	5	
X0327303	REMOVAL OF EXISTING SIGN LIGHTING UNIT WITH NO SALVAGE	EACH	17	17	-	-	-	-	-	-	-	-	-	-	
Z0012142	BRIDGE DECK SCARIFICATION (2 1/4 INCH)	SO YD	362	-	-	-	-	-	-	-	-	-	-	362	
Z0034105	MATERIAL TRANSFER DEVICE	TON	21,984	15,856	6,129	-	-	-	-	-	-	-	-	-	

* SPECIALTY ITEM

Rev.

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 USER = JWB
 MILLENNIA PROFESSIONAL SERVICES



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DATE - 4/4/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 20
EAST OF PLANK ROAD TO WELD ROAD
 SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

SUMMARY OF QUANTITIES

F.A.P. RTE. 345	SECTION BWS-2	COUNTY KANE	TOTAL SHEETS 124	SHEET NO. 6
CONTRACT NO. 100446			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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LEGEND

- ① EXISTING +/-3" HMA
- ② EXISTING +/-8" P.C.C. BASE
- ③ EXISTING B-6.24 CURB AND GUTTER
- ④ EXISTING BITUMINOUS SHOULDER +/-8"
- ⑤ EXISTING +/- 8" AGGREGATE SHOULDER, TYPE B
- ⑥ HMA SURFACE REMOVAL - 3"
- ⑦ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5MM) -1 1/2"
- ⑧ POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 -1"
- ⑨ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 -2"
- ⑩ HMA SURFACE REMOVAL - 2 1/2"
- ⑪ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5MM) -1 1/2"
- ⑫ RUMBLE STRIP
- ⑬ P.P.C. SURFACE REMOVAL (VAR. DEPTH)
- ⑭ LEVELING BINDER (MACHINE METHOD), N70

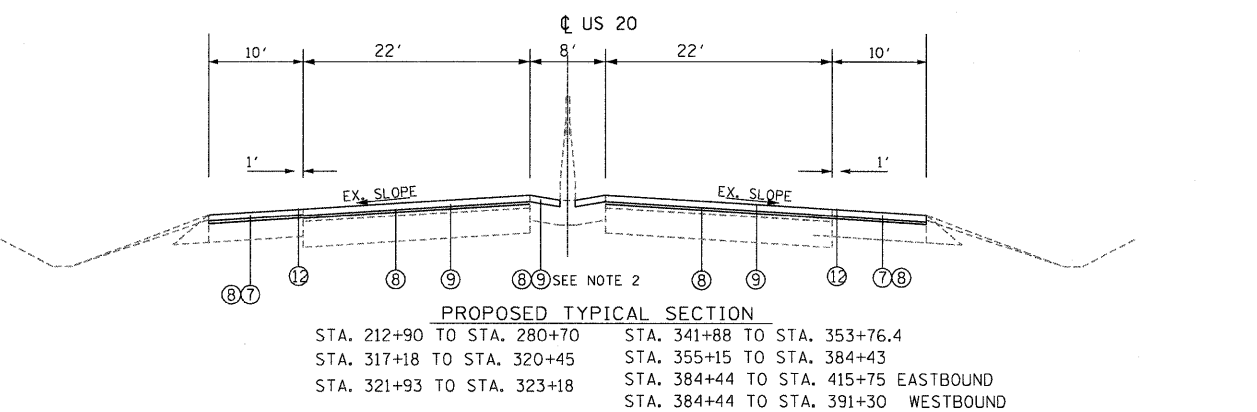
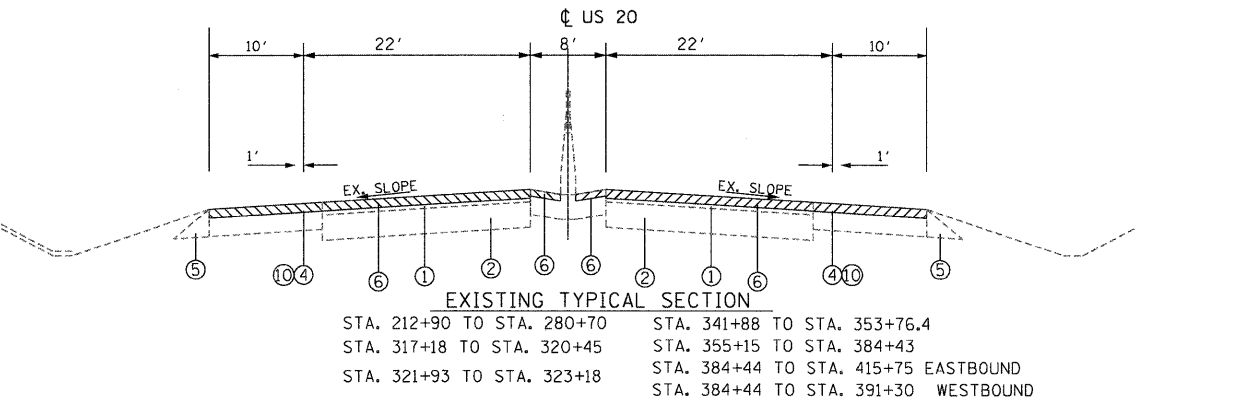
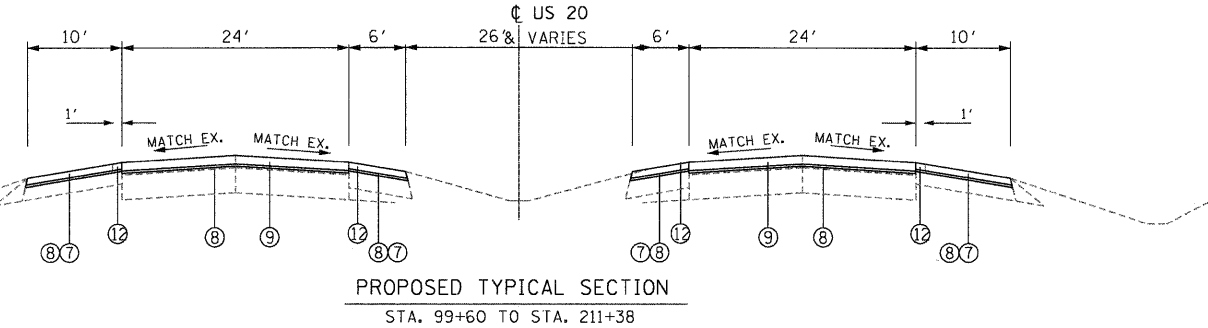
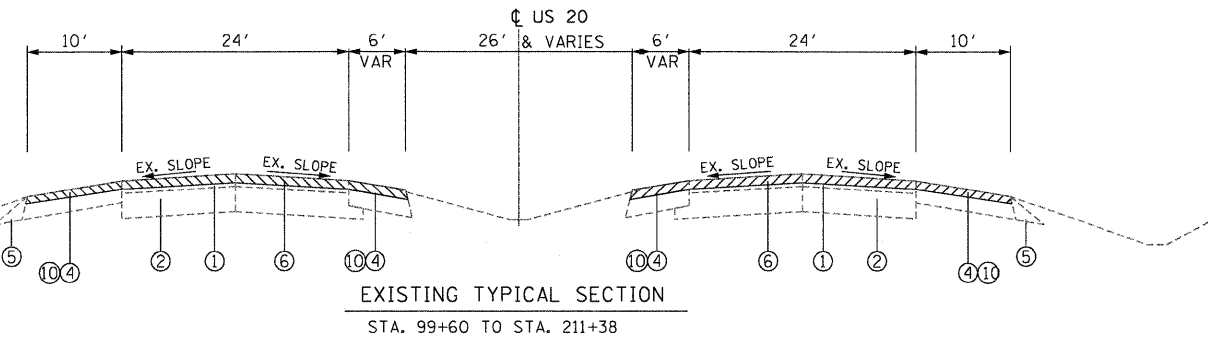
NOTES

1. SEE DISTRICT ONE DETAIL (BD33) HMA TAPER AT EDGE OF P.C.C. PAVEMENT. MILLING AT CUTTER FLAG PER DETAIL SHALL B3 1 3/4".
2. NO ADDITIONAL COMPENSATION WILL BE GIVEN TO THE CONTRACTOR FOR ANY EXTRA WORK REQUIRED TO REMOVE THE HMA SHOULDER ADJACENT TO THE EXISTING BARRIER WALL. THIS WORK WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR HMA SURFACE REMOVAL - 3".
3. CONTRACTOR SHALL PATCH BEFORE MILLING

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT RESURFACING AND INSIDE SHOULDER	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80	3.5% @ 80 GYR.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	4% @ 50 GYR.
HMA OUTSIDE SHOULDER AND RAMPS RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 mm)	4% @ 70 GYR.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	4% @ 50 GYR.
PAVEMENT RESURFACING FOR IL ROUTE 31	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 mm)	4% @ 70 GYR.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	4% @ 50 GYR.
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19 MM)	4% @ 70 GYR.
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 MM)	4% @ 70 GYR.

MIXTURE NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.
3. CONTRACTOR SHALL PATCH BEFORE MILLING
4. PFP IS FOR SMA SURFACE ONLY



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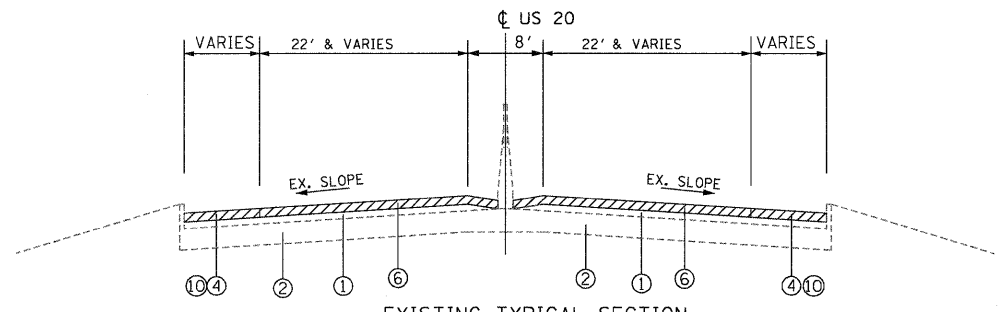
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

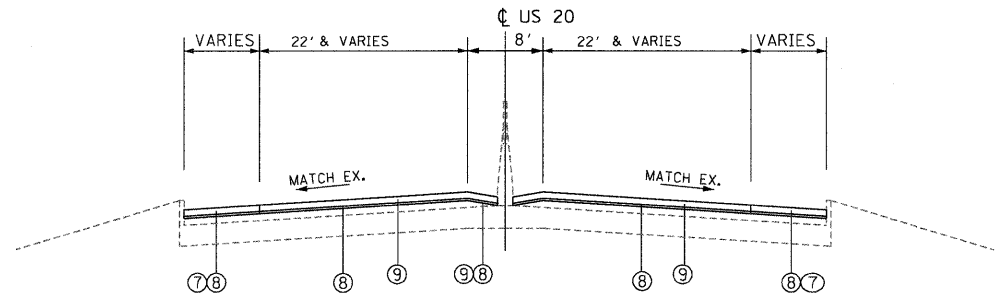
TYPICAL SECTIONS

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

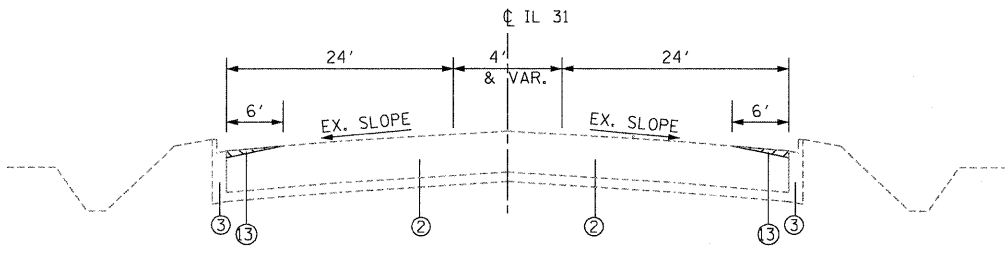
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	7
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				CONTRACT NO. 60M46
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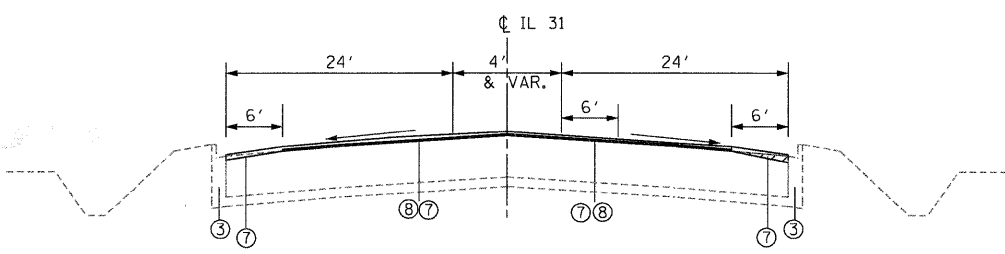
EXISTING TYPICAL SECTION
 STA. 280+71 TO STA. 283+89 NO CURB ON LEFT STA. 332+51 TO STA. 334+27
 STA. 283+90 TO STA. 310+36 STA. 335+75 TO STA. 338+47
 STA. 323+18 TO STA. 325+30 NO CURB ON RIGHT STA. 338+48 TO STA. 341+87 NO CURB ON RIGHT
 STA. 325+31 TO STA. 330+91



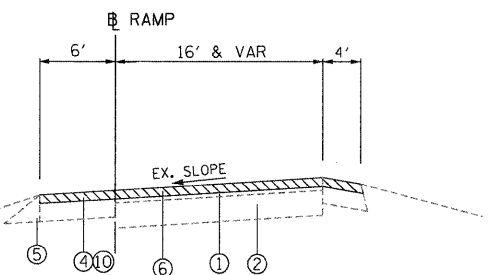
PROPOSED TYPICAL SECTION
 STA. 280+71 TO STA. 283+89 NO CURB ON LEFT STA. 332+51 TO STA. 334+27
 STA. 283+90 TO STA. 310+36 STA. 335+75 TO STA. 338+47
 STA. 323+18 TO STA. 325+30 NO CURB ON RIGHT STA. 338+48 TO STA. 341+87 NO CURB ON RIGHT
 STA. 325+31 TO STA. 330+91



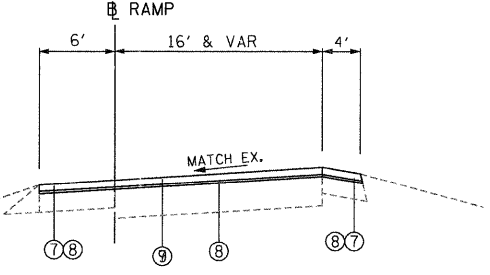
EXISTING TYPICAL SECTION
 STA. 99+00 TO STA. 100+70
 STA. 100+99 TO STA. 102+34
 STA. 102+62 TO STA. 103+65



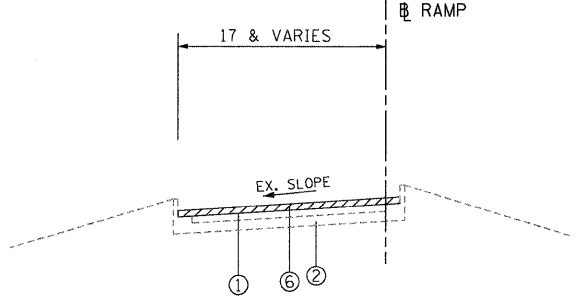
PROPOSED TYPICAL SECTION
 STA. 99+00 TO STA. 100+70
 STA. 100+99 TO STA. 102+34
 STA. 102+62 TO STA. 103+65



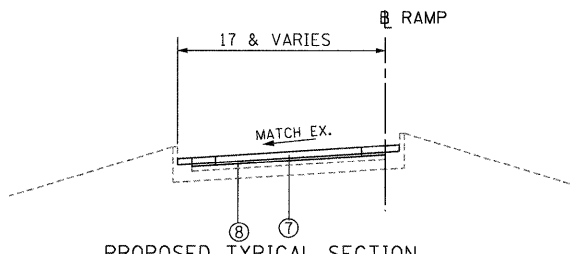
EXISTING TYPICAL SECTION
 US 20 AT RANDALL RD
 RAMP A, B, C & D



PROPOSED TYPICAL SECTION
 US 20 AT RANDALL RD
 RAMP A, B, C & D



EXISTING TYPICAL SECTION
 US 20 AT IL 31 (STATE ST)
 RAMP K, L, M & N



PROPOSED TYPICAL SECTION
 US 20 AT IL 31 (STATE ST)
 RAMP K, L, M & N

LEGEND

- ① EXISTING +/-3" HMA
- ② EXISTING +/-10" P.C.C. BASE
- ③ EXISTING B-6.24 CURB AND GUTTER
- ④ EXISTING BITUMINOUS SHOULDER +/-8"
- ⑤ EXISTING +/- 8" AGGREGATE SHOULDER, TYPE B
- ⑥ HMA SURFACE REMOVAL - 3"
- ⑦ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5MM) -1 1/2"
- ⑧ POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 -1"
- ⑨ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 -2" (SEE NOTE 2)
- ⑩ HMA SURFACE REMOVAL - 2 1/2"
- ⑪ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5MM) -1 1/2"
- ⑫ RUMBLE STRIP
- ⑬ P.P.C. SURFACE REMOVAL (VAR. DEPTH)
- ⑭ LEVELING BINDER (MACHINE METHOD), N70

NOTES

- 1. SEE DISTRICT ONE DETAIL (BD33) HMA TAPER AT EDGE OF P.C.C. PAVEMENT. MILLING AT GUTTER FLAG PER DETAIL SHALL B3 1 3/4".

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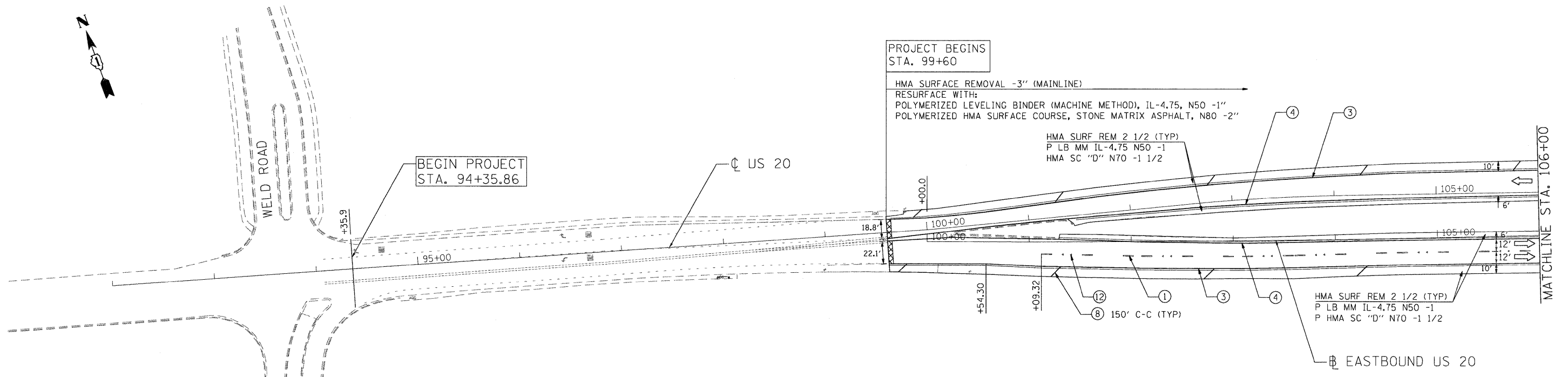
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)
 RANDALL RD TO SHALES PARKWAY**

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	8
CONTRACT NO. 60M46				

FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT
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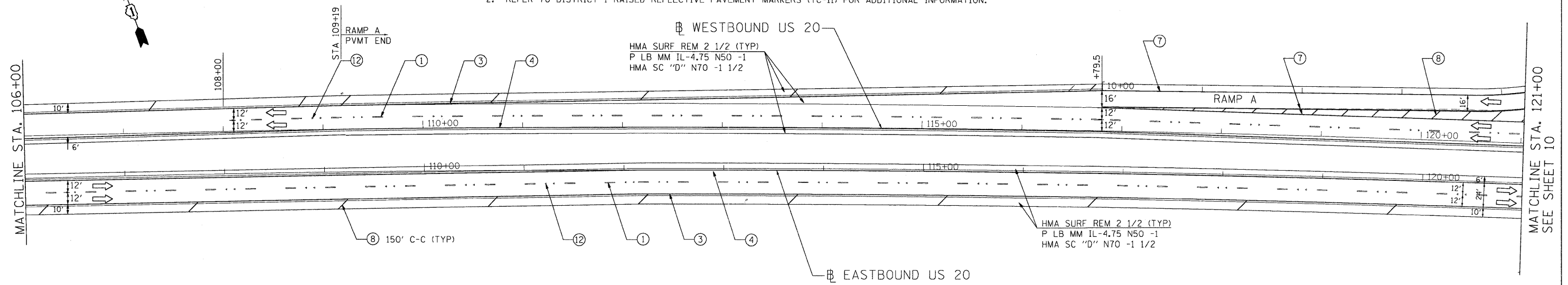
PAVEMENT MARKING LEGEND (SEE NOTE 1)

- | | |
|---|--|
| ① THERMOPLASTIC PAVEMENT MARKING 4" WHITE LANE LINE (30' SKIP 10' DASH) | ⑦ THERMOPLASTIC PAVEMENT MARKING 8" WHITE LINE |
| ② THERMOPLASTIC PAVEMENT MARKING 6" WHITE DOTTED LINE (6' SKIP 2' DASH) | ⑧ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL WHITE LINE |
| ③ THERMOPLASTIC PAVEMENT MARKING 4" SOLID WHITE LINE | ⑨ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL YELLOW LINE |
| ④ THERMOPLASTIC PAVEMENT MARKING 4" SOLID YELLOW LINE | ⑩ THERMOPLASTIC PAVEMENT MARKING 24" WHITE STOP BAR |
| ⑤ THERMOPLASTIC PAVEMENT MARKING 4" DOUBLE YELLOW LINE 11" C-C | ⑪ THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS (TYP) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING 6" WHITE LINE | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (SEE NOTE 2) |

NOTES:

- REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
- REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

SURFACE REMOVAL BUTT JOINT
 SEE BUTT JOINTS AND HMA TAPER DET



FILE NAME: P:\2009\me2006\var\var-ph1\cadd\w21\us20\shas\016\RM46-04-Prop1.dgn
 USER: MJP
 MILLENNIA PROFESSIONAL SERVICES



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

ROADWAY & PAVEMENT
MARKING PLAN

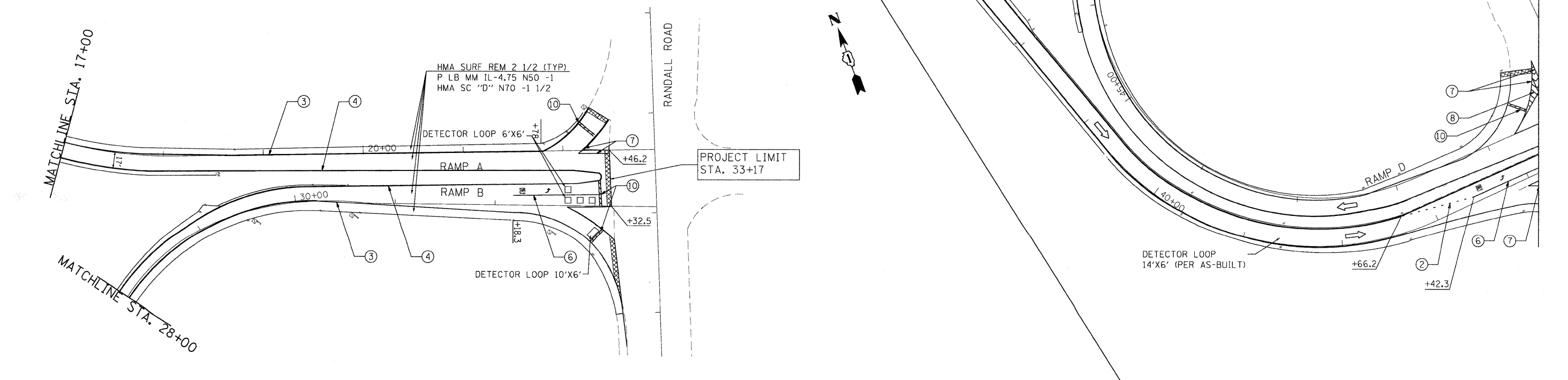
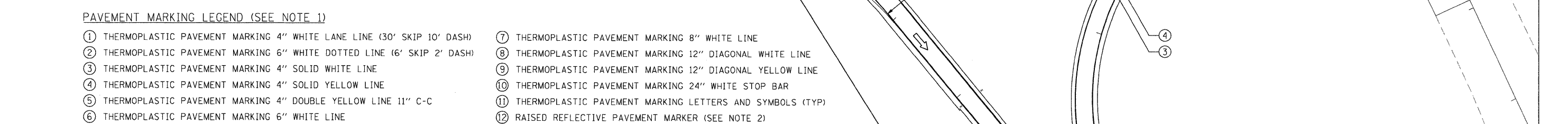
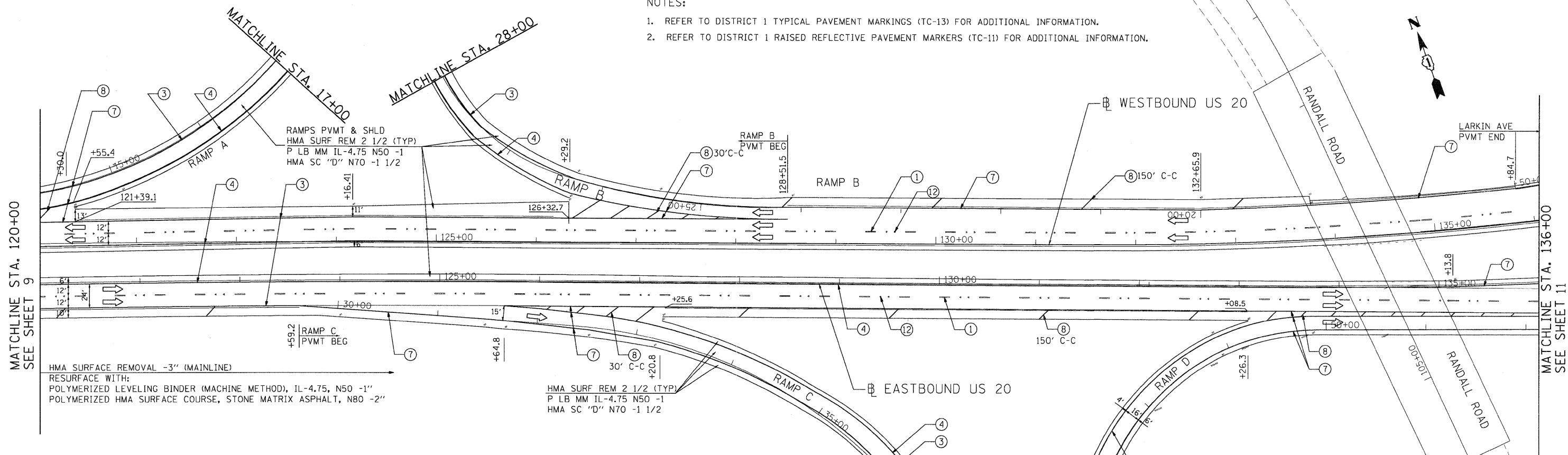
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	9
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

P:\2009\me2006\var\var-ph1\cadd\w21\us20\shas\016\RM46-04-Prop1.dgn

NOTES:

1. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
2. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.



FILE NAME = P:\2009\mgs1006\ver-ver-phi\cadd\wo21.us20\shas\160M46-05-P-002.dgn
 USER NAME = Millennium Professional Services

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

ROADWAY & PAVEMENT
MARKING PLAN

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 345	SECTION BR-1-RS-4	COUNTY KANE/COOK	TOTAL SHEETS 124	SHEET NO. 10
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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HMA SURFACE REMOVAL -3" (MAINLINE)
RESURFACE WITH:
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 -1"
POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, N80 -2"

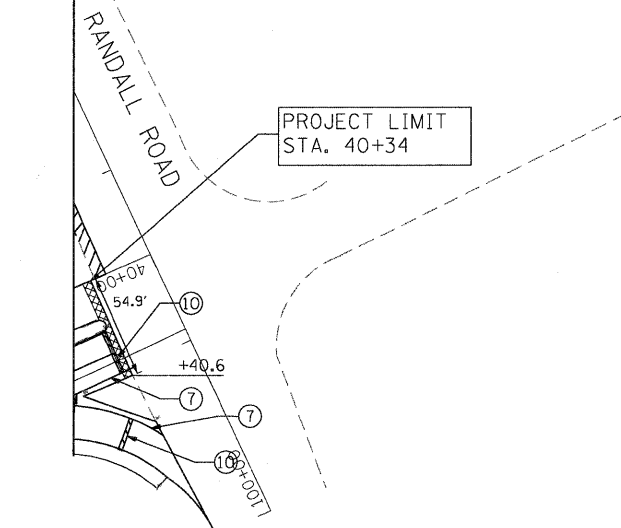
HMA SURF REM 2 1/2 (TYP)
P LB MM IL-4.75 N50 -1
P HMA SC "D" N70 -1 1/2

HMA SURF REM 2 1/2 (TYP)
P LB MM IL-4.75 N50 -1
HMA SC "D" N70 -1 1/2

HMA SURF REM 2 1/2 (TYP)
P LB MM IL-4.75 N50 -1
HMA SC "D" N70 -1 1/2

MATCHLINE STA. 136+00
SEE SHEET 10

MATCHLINE STA. 150+00
SEE SHEET 12



PAVEMENT MARKING LEGEND (SEE NOTE 1)

- ① THERMOPLASTIC PAVEMENT MARKING 4" WHITE LANE LINE (30' SKIP 10' DASH)
- ② THERMOPLASTIC PAVEMENT MARKING 6" WHITE DOTTED LINE (6' SKIP 2' DASH)
- ③ THERMOPLASTIC PAVEMENT MARKING 4" SOLID WHITE LINE
- ④ THERMOPLASTIC PAVEMENT MARKING 4" SOLID YELLOW LINE
- ⑤ THERMOPLASTIC PAVEMENT MARKING 4" DOUBLE YELLOW LINE 11" C-C
- ⑥ THERMOPLASTIC PAVEMENT MARKING 6" WHITE LINE
- ⑦ THERMOPLASTIC PAVEMENT MARKING 8" WHITE LINE
- ⑧ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL WHITE LINE
- ⑨ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL YELLOW LINE
- ⑩ THERMOPLASTIC PAVEMENT MARKING 24" WHITE STOP BAR
- ⑪ THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS (TYP)
- ⑫ RAISED REFLECTIVE PAVEMENT MARKER (SEE NOTE 2)

NOTES:

1. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
2. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

⊠ SURFACE REMOVAL BUTT JOINT
SEE BUTT JOINTS AND HMA TAPER DET

FILE NAME: p:\2009\me0906s\var\var-ph1\cadd\wo21.us20\shs\0160M46-06-Prop03.dgn
 USER NAME: Millennium Professional Services

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY**

**ROADWAY AND
PAVEMENT MARKING PLAN**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 345	SECTION BR-1-RS-4	COUNTY KANE/COOK	TOTAL SHEETS 124	SHEET NO. 11
CONTRACT NO. 60M46				

FILE NAME: p:\2009\me0906s\var\var-ph1\cadd\wo21.us20\shs\0160M46-06-Prop03.dgn

HMA SURFACE REMOVAL -3" (MAINLINE)
 RESURFACE WITH:
 POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 -1"
 POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, N80 -2"

HMA SURF REM 2 1/2 (TYP)
 P LB MM IL-4.75 N50 -1
 HMA SC "D" N70 -1 1/2

HMA SURF REM 2 1/2 (TYP)
 P LB MM IL-4.75 N50 -1
 HMA SC "D" N70 -1 1/2

HMA SURF REM 2 1/2 (TYP)
 P LB MM IL-4.75 N50 -1
 HMA SC "D" N70 -1 1/2

MATCHLINE STA. 150+00
 SEE SHEET 11

MATCHLINE STA. 165+00

PAVEMENT MARKING LEGEND (SEE NOTE 1)

- | | |
|---|--|
| ① THERMOPLASTIC PAVEMENT MARKING 4" WHITE LANE LINE (30' SKIP 10' DASH) | ⑦ THERMOPLASTIC PAVEMENT MARKING 8" WHITE LINE |
| ② THERMOPLASTIC PAVEMENT MARKING 6" WHITE DOTTED LINE (6' SKIP 2' DASH) | ⑧ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL WHITE LINE |
| ③ THERMOPLASTIC PAVEMENT MARKING 4" SOLID WHITE LINE | ⑨ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL YELLOW LINE |
| ④ THERMOPLASTIC PAVEMENT MARKING 4" SOLID YELLOW LINE | ⑩ THERMOPLASTIC PAVEMENT MARKING 24" WHITE STOP BAR |
| ⑤ THERMOPLASTIC PAVEMENT MARKING 4" DOUBLE YELLOW LINE 11" C-C | ⑪ THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS (TYP) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING 6" WHITE LINE | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (SEE NOTE 2) |

NOTES:

- REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
- REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

⊗ SURFACE REMOVAL BUTT JOINT
 SEE BUTT JOINTS AND HMA TAPER DET

MATCHLINE STA. 165+00

MATCHLINE STA. 180+00
 SEE SHEET 13

FILE NAME = p:\2009\m\0506...
 USER NAME = Millennium Professional Services



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)
 RANDALL RD TO SHALES PARKWAY**

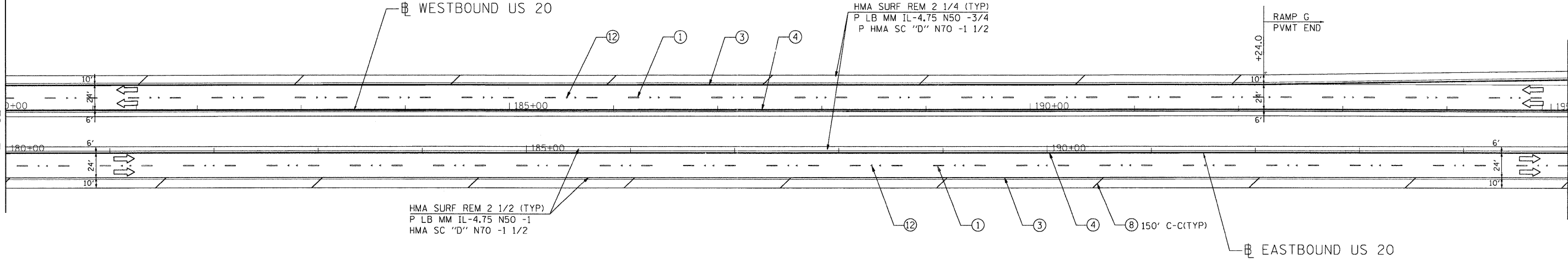
**ROADWAY & PAVEMENT
 MARKING PLAN**

F.A.P. RTE. 345	SECTION BR-1-RS-4	COUNTY KANE/COOK	TOTAL SHEETS 124	SHEET NO. 12
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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HMA SURFACE REMOVAL -3" (MAINLINE)
 RESURFACE WITH:
 POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 -1"
 POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, N80 -2"

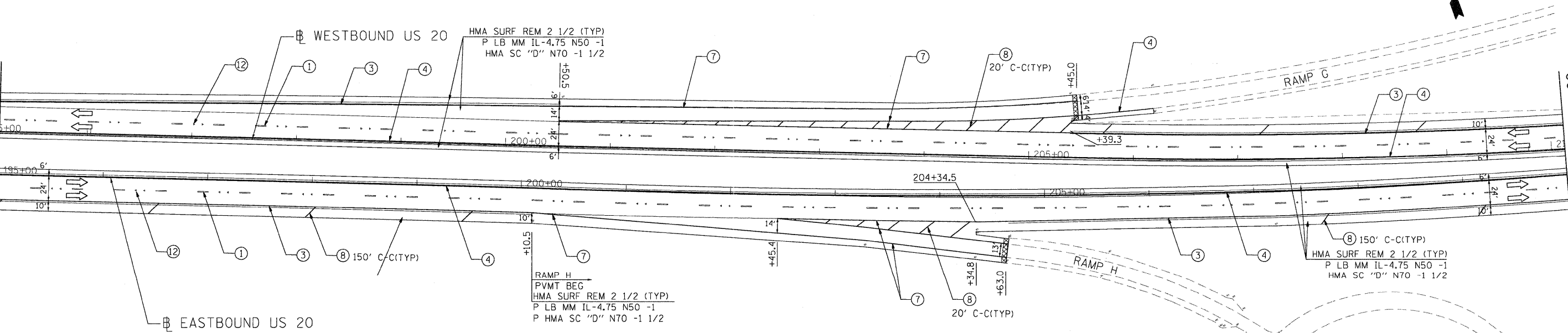
MATCHLINE STA. 180+00
 SEE SHEET 12



MATCHLINE STA. 195+00

HMA SURF REM 2 1/2 (TYP)
 P LB MM IL-4.75 N50 -1
 HMA SC "D" N70 -1 1/2

MATCHLINE STA. 195+00



MATCHLINE STA. 210+00
 SEE SHEET 14

FILE NAME = p:\2009\me0906\var-ver-phl\acadd\wo21\us20\shs\0160M46-06-Prp05.dgn
 USER NAME = Milleanna Professional Services



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CHECKED -	TVN	REVISED -	
DATE -	4/1/2011	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

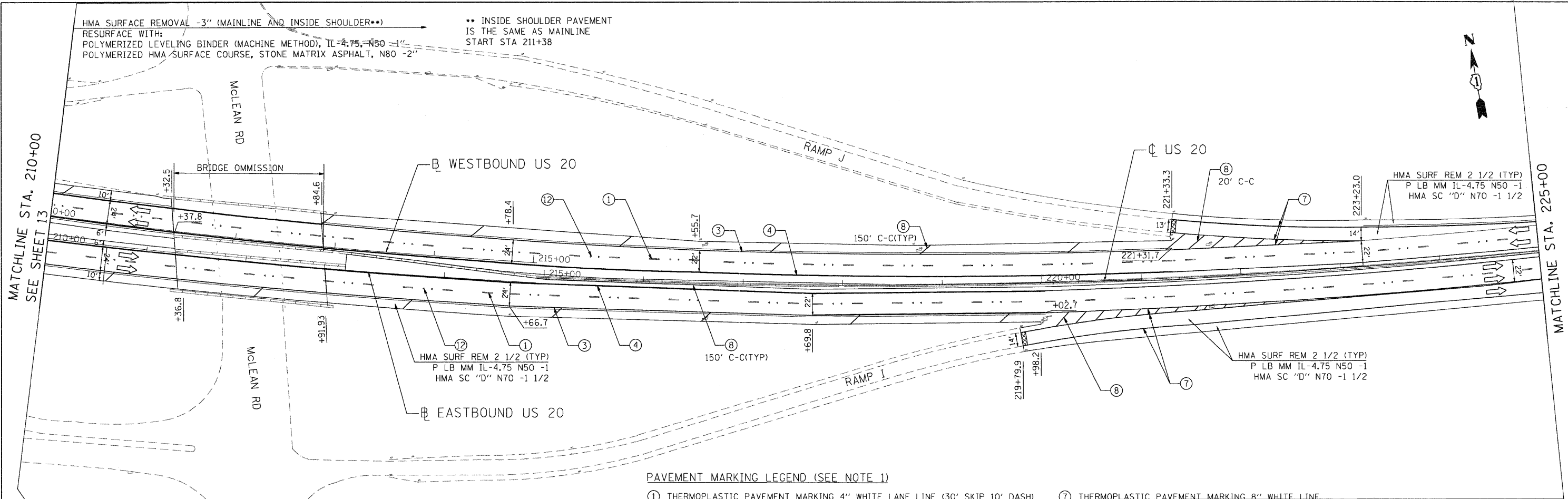
**US ROUTE 20 (LAKE STREET)
 RANDALL RD TO SHALES PARKWAY**

**ROADWAY & PAVEMENT
 MARKING PLAN**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	13
CONTRACT NO. 60M46				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
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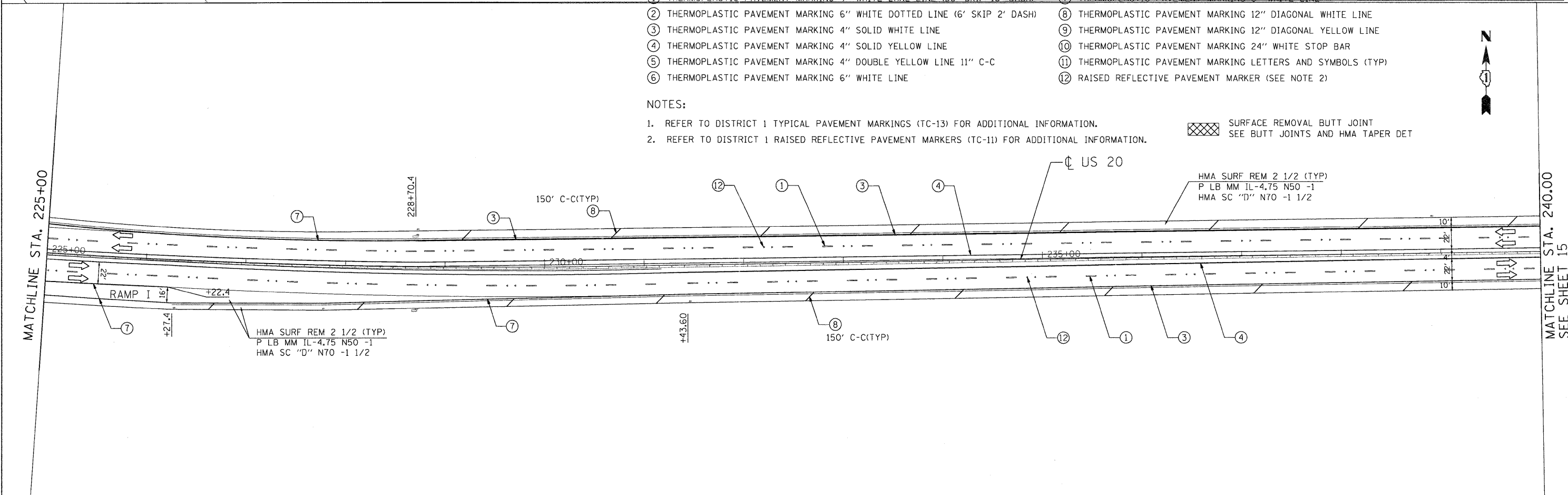
PAVEMENT MARKING LEGEND (SEE NOTE 1)

- | | |
|---|--|
| ① THERMOPLASTIC PAVEMENT MARKING 4" WHITE LANE LINE (30' SKIP 10' DASH) | ⑦ THERMOPLASTIC PAVEMENT MARKING 8" WHITE LINE |
| ② THERMOPLASTIC PAVEMENT MARKING 6" WHITE DOTTED LINE (6' SKIP 2' DASH) | ⑧ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL WHITE LINE |
| ③ THERMOPLASTIC PAVEMENT MARKING 4" SOLID WHITE LINE | ⑨ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL YELLOW LINE |
| ④ THERMOPLASTIC PAVEMENT MARKING 4" SOLID YELLOW LINE | ⑩ THERMOPLASTIC PAVEMENT MARKING 24" WHITE STOP BAR |
| ⑤ THERMOPLASTIC PAVEMENT MARKING 4" DOUBLE YELLOW LINE 11" C-C | ⑪ THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS (TYP) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING 6" WHITE LINE | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (SEE NOTE 2) |

NOTES:

- REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
- REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

SURFACE REMOVAL BUTT JOINT
SEE BUTT JOINTS AND HMA TAPER DET



FILE NAME : p:\2009\me09066-ver-var-ph11\cadd\wo21.us20\shas\016RM46-09-Prop08.dgn
 USER : MULLIPATI, P. Professional Services



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

ROADWAY & PAVEMENT
MARKING PLAN

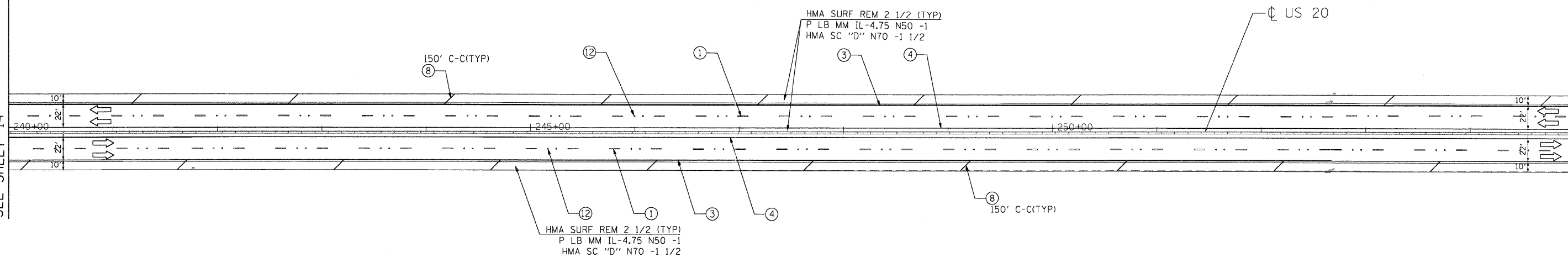
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	14
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

p:\2009\me09066-ver-var-ph11\cadd\wo21.us20\shas\016RM46-09-Prop08.dgn

HMA SURFACE REMOVAL -3" (MAINLINE AND INSIDE SHOULDER)
 RESURFACE WITH:
 POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 -1"
 POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, N80 -2"

MATCHLINE STA. 240+00
 SEE SHEET 14



MATCHLINE STA. 255+00
 SEE SHEET 15

PAVEMENT MARKING LEGEND (SEE NOTE 1)

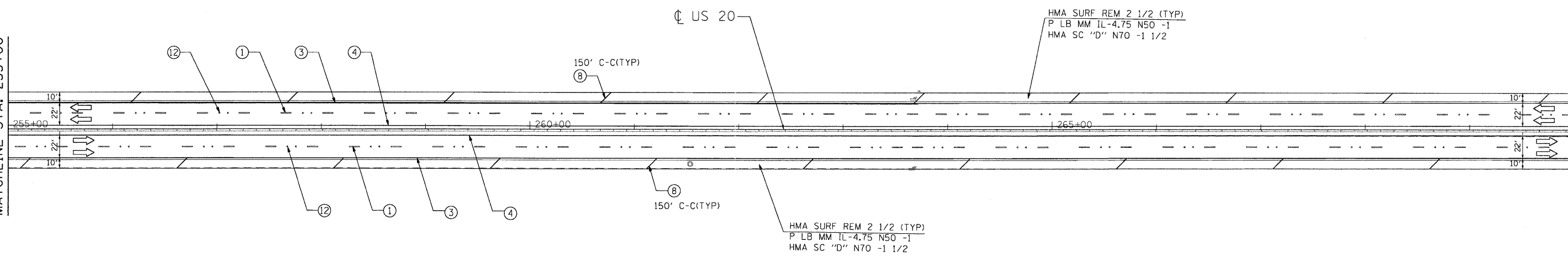
- ① THERMOPLASTIC PAVEMENT MARKING 4" WHITE LANE LINE (30' SKIP 10' DASH)
- ② THERMOPLASTIC PAVEMENT MARKING 6" WHITE DOTTED LINE (6' SKIP 2' DASH)
- ③ THERMOPLASTIC PAVEMENT MARKING 4" SOLID WHITE LINE
- ④ THERMOPLASTIC PAVEMENT MARKING 4" SOLID YELLOW LINE
- ⑤ THERMOPLASTIC PAVEMENT MARKING 4" DOUBLE YELLOW LINE 11" C-C
- ⑥ THERMOPLASTIC PAVEMENT MARKING 6" WHITE LINE
- ⑦ THERMOPLASTIC PAVEMENT MARKING 8" WHITE LINE
- ⑧ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL WHITE LINE
- ⑨ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL YELLOW LINE
- ⑩ THERMOPLASTIC PAVEMENT MARKING 24" WHITE STOP BAR
- ⑪ THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS (TYP)
- ⑫ RAISED REFLECTIVE PAVEMENT MARKER (SEE NOTE 2)

NOTES:

1. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
2. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

SURFACE REMOVAL BUTT JOINT
 SEE BUTT JOINTS AND HMA TAPER DET

MATCHLINE STA. 255+00
 SEE SHEET 14



MATCHLINE STA. 270+00
 SEE SHEET 16

FILE NAME : p:\2009\m09066\varver_phi\cadd\wo2\us20\shs\16\60M46-16-Prop07.dgn
 USER NAME : M11\m11 Professional Services

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY
ROADWAY & PAVEMENT MARKING PLAN

F.A.P. RTE. 345	SECTION BR-1-RS-4	COUNTY KANE/COOK	TOTAL SHEETS 124	SHEET NO. 15
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

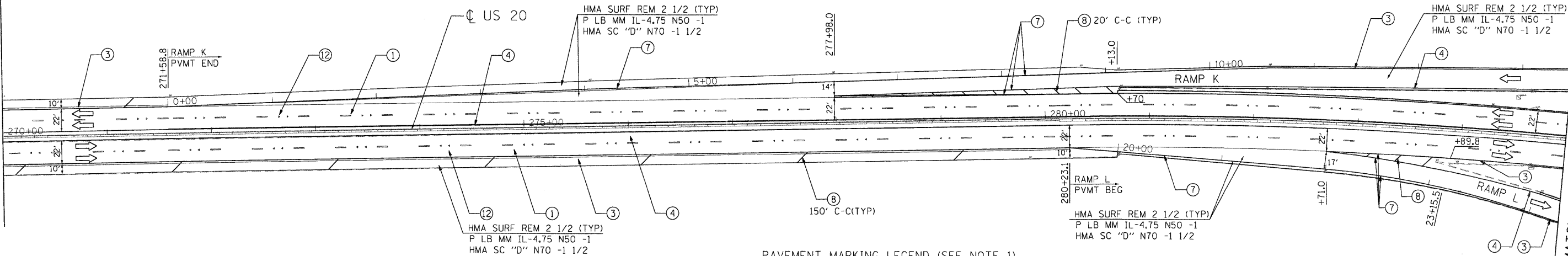
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HMA SURFACE REMOVAL -3" (MAINLINE AND INSIDE SHOULDER)
RESURFACE WITH:
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 -1"
POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, N80 -2"

MATCHLINE STA. 270+00
SEE SHEET 15

MATCHLINE STA. 285+00



PAVEMENT MARKING LEGEND (SEE NOTE 1)

- ① THERMOPLASTIC PAVEMENT MARKING 4" WHITE LANE LINE (30' SKIP 10' DASH)
- ② THERMOPLASTIC PAVEMENT MARKING 6" WHITE DOTTED LINE (6' SKIP 2' DASH)
- ③ THERMOPLASTIC PAVEMENT MARKING 4" SOLID WHITE LINE
- ④ THERMOPLASTIC PAVEMENT MARKING 4" SOLID YELLOW LINE
- ⑤ THERMOPLASTIC PAVEMENT MARKING 4" DOUBLE YELLOW LINE 11" C-C
- ⑥ THERMOPLASTIC PAVEMENT MARKING 6" WHITE LINE
- ⑦ THERMOPLASTIC PAVEMENT MARKING 8" WHITE LINE
- ⑧ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL WHITE LINE
- ⑨ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL YELLOW LINE
- ⑩ THERMOPLASTIC PAVEMENT MARKING 24" WHITE STOP BAR
- ⑪ THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS (TYP)
- ⑫ RAISED REFLECTIVE PAVEMENT MARKER (SEE NOTE 2)

NOTES:

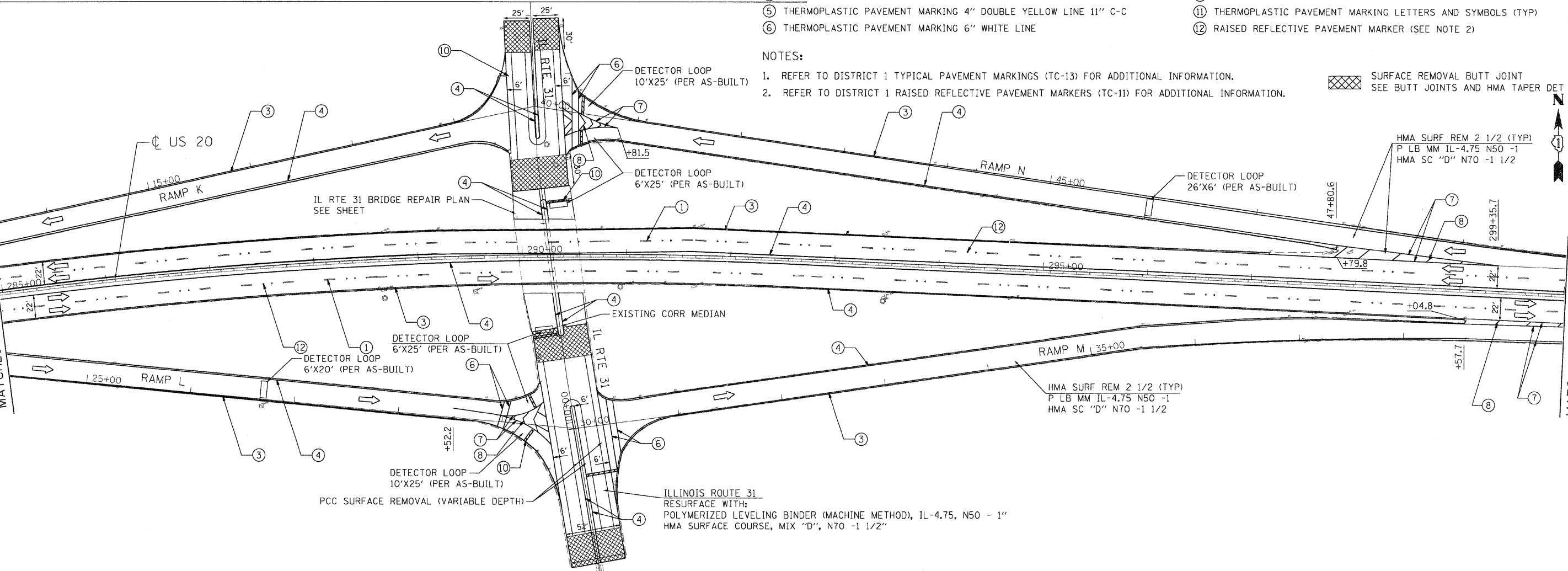
1. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
2. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

SURFACE REMOVAL BUTT JOINT
SEE BUTT JOINTS AND HMA TAPER DET

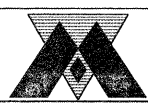


MATCHLINE STA. 285+00

MATCHLINE STA. 300+00
SEE SHEET 17



FILE NAME: P:\2009\m0906\var-var-ph1\cecd\wo2\us20\shs\1160M46-11-PropB.dgn
 USER: NICK
 MILL/DATE: Professional Services



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DATE	4/1/2011	REVISED -	

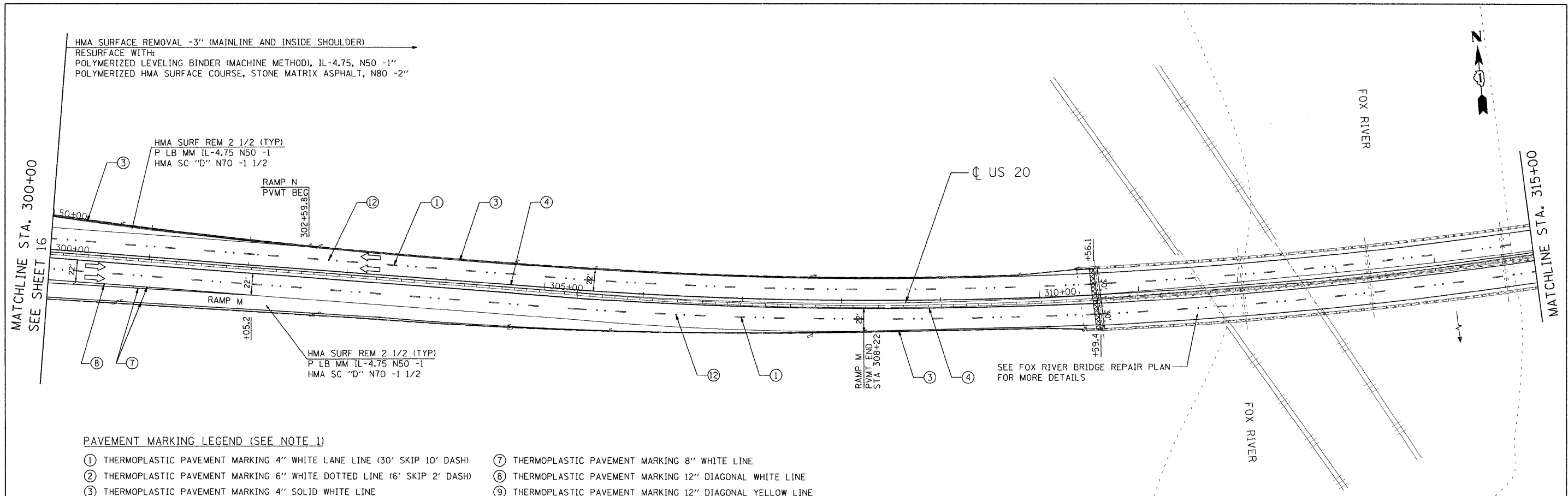
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	16
CONTRACT NO., 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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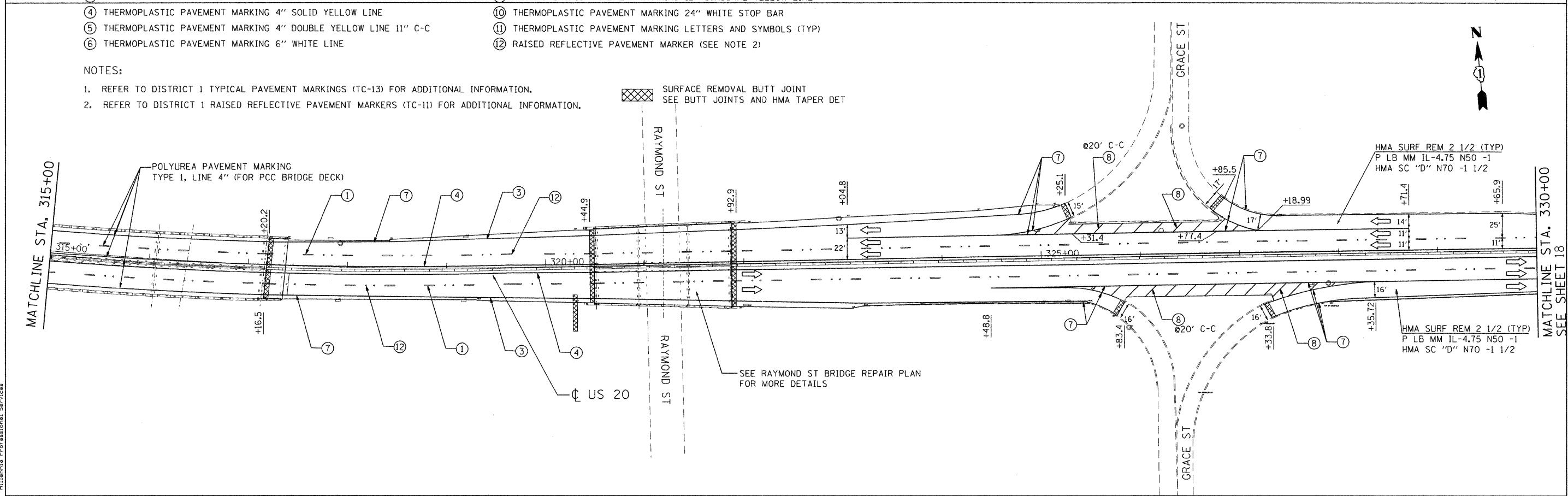
PAVEMENT MARKING LEGEND (SEE NOTE 1)

- | | |
|---|--|
| ① THERMOPLASTIC PAVEMENT MARKING 4" WHITE LANE LINE (30' SKIP 10' DASH) | ⑦ THERMOPLASTIC PAVEMENT MARKING 8" WHITE LINE |
| ② THERMOPLASTIC PAVEMENT MARKING 6" WHITE DOTTED LINE (6' SKIP 2' DASH) | ⑧ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL WHITE LINE |
| ③ THERMOPLASTIC PAVEMENT MARKING 4" SOLID WHITE LINE | ⑨ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL YELLOW LINE |
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| ⑤ THERMOPLASTIC PAVEMENT MARKING 4" DOUBLE YELLOW LINE 11" C-C | ⑪ THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS (TYP) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING 6" WHITE LINE | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (SEE NOTE 2) |

NOTES:

- REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
- REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

SURFACE REMOVAL BUTT JOINT
 SEE BUTT JOINTS AND HMA TAPER DET



FILE NAME = P:\2009\ME09086_Ver-Yar-Phl\CAOD\W02LUS20\Shs\D160M46-12-Prop09.dgn
 USER NAME = Millennium Professional Services

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CHECKED - TVN	REVISED -
DATE - 4/5/2011	REVISED -

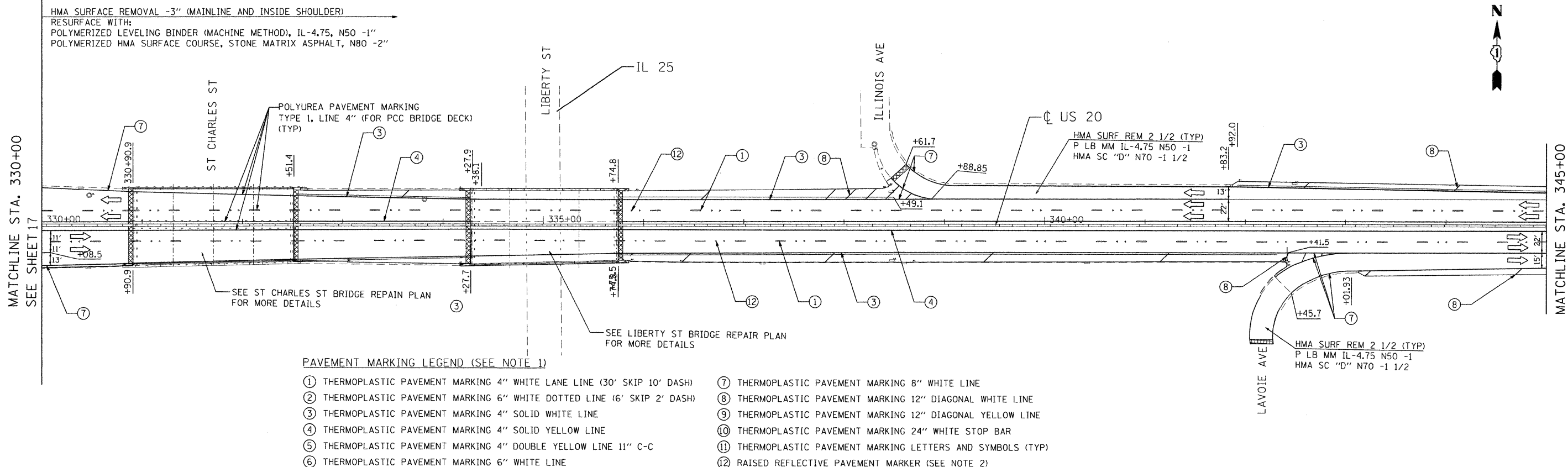
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

ROADWAY & PAVEMENT
MARKING PLAN

F.A.P. RTE. 345	SECTION 8R-1-RS-4	COUNTY KANE/COOK	TOTAL SHEETS 124	SHEET NO. 17
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 60M46				

P:\2009\ME09086_Ver-Yar-Phl\CAOD\W02LUS20\Shs\D160M46-12-Prop09.dgn



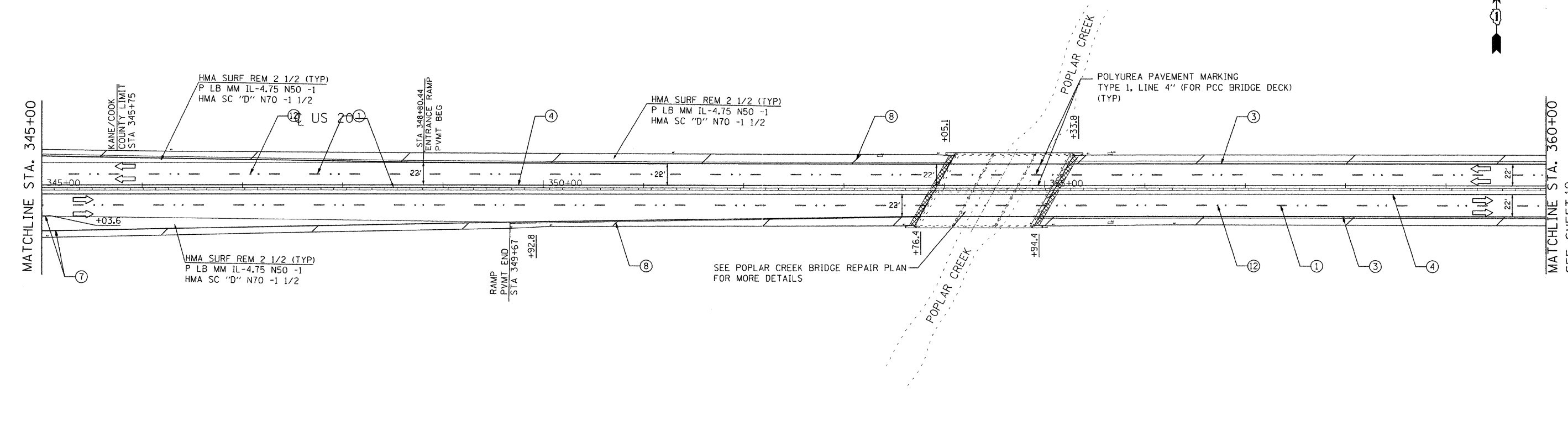
PAVEMENT MARKING LEGEND (SEE NOTE 1)

- ① THERMOPLASTIC PAVEMENT MARKING 4" WHITE LANE LINE (30' SKIP 10' DASH)
- ② THERMOPLASTIC PAVEMENT MARKING 6" WHITE DOTTED LINE (6' SKIP 2' DASH)
- ③ THERMOPLASTIC PAVEMENT MARKING 4" SOLID WHITE LINE
- ④ THERMOPLASTIC PAVEMENT MARKING 4" SOLID YELLOW LINE
- ⑤ THERMOPLASTIC PAVEMENT MARKING 4" DOUBLE YELLOW LINE 11" C-C
- ⑥ THERMOPLASTIC PAVEMENT MARKING 6" WHITE LINE
- ⑦ THERMOPLASTIC PAVEMENT MARKING 8" WHITE LINE
- ⑧ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL WHITE LINE
- ⑨ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL YELLOW LINE
- ⑩ THERMOPLASTIC PAVEMENT MARKING 24" WHITE STOP BAR
- ⑪ THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS (TYP)
- ⑫ RAISED REFLECTIVE PAVEMENT MARKER (SEE NOTE 2)

NOTES:

1. REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
2. REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

SURFACE REMOVAL BUTT JOINT
SEE BUTT JOINTS AND HMA TAPER DET



FILE NAME: F:\2008\VE090806-Var-Var-Phil\CADD\W021.US20\Shas\0160M46-13-PropR.dgn
 USER NAME: Millennium Professional Services



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DRAWN - CJD	REVISED -
CHECKED - TVN	REVISED -
DATE - 4/5/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY
 SCALE: SHEET NO. OF SHEETS STA. TO STA.

ROADWAY & PAVEMENT
MARKING PLAN

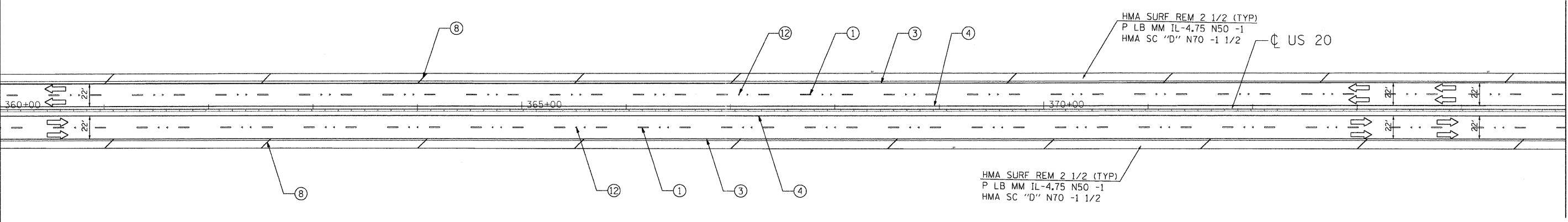
F.A.P. RTE. 345	SECTION 8R-1-RS-4	COUNTY KANE/COOK	TOTAL SHEETS 124	SHEET NO. 18
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CONTRACT NO. 60M46				

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HMA SURFACE REMOVAL -3" (MAINLINE AND INSIDE SHOULDER)
RESURFACE WITH:
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 -1"
POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, N80 -2"



MATCHLINE STA. 360+00
SEE SHEET 18



MATCHLINE STA. 375+00

PAVEMENT MARKING LEGEND (SEE NOTE 1)

- | | |
|---|--|
| ① THERMOPLASTIC PAVEMENT MARKING 4" WHITE LANE LINE (30' SKIP 10' DASH) | ⑦ THERMOPLASTIC PAVEMENT MARKING 8" WHITE LINE |
| ② THERMOPLASTIC PAVEMENT MARKING 6" WHITE DOTTED LINE (6' SKIP 2' DASH) | ⑧ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL WHITE LINE |
| ③ THERMOPLASTIC PAVEMENT MARKING 4" SOLID WHITE LINE | ⑨ THERMOPLASTIC PAVEMENT MARKING 12" DIAGONAL YELLOW LINE |
| ④ THERMOPLASTIC PAVEMENT MARKING 4" SOLID YELLOW LINE | ⑩ THERMOPLASTIC PAVEMENT MARKING 24" WHITE STOP BAR |
| ⑤ THERMOPLASTIC PAVEMENT MARKING 4" DOUBLE YELLOW LINE 11" C-C | ⑪ THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS (TYP) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING 6" WHITE LINE | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (SEE NOTE 2) |

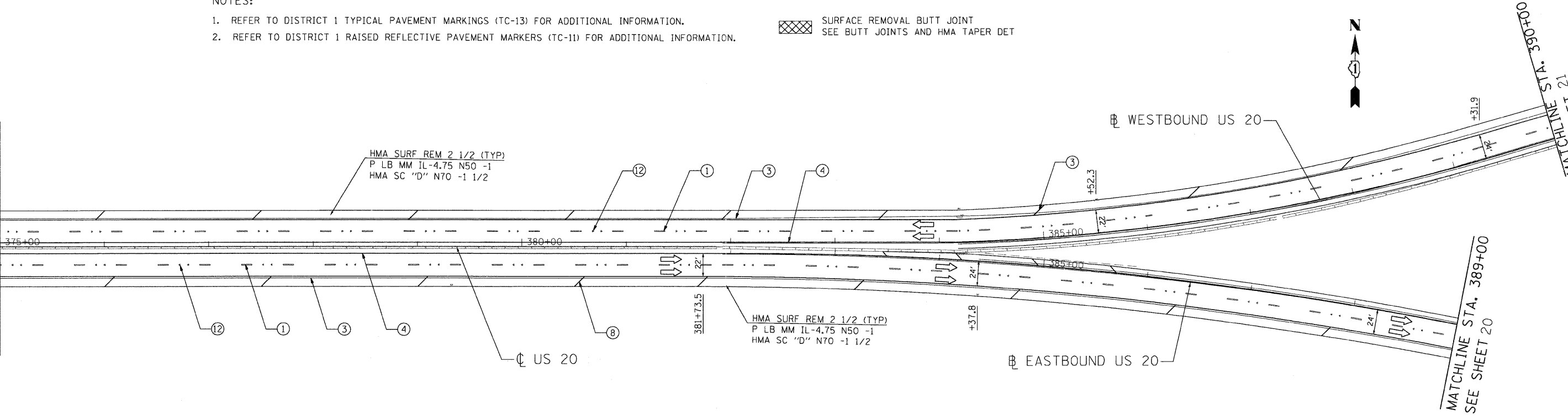
NOTES:

- REFER TO DISTRICT 1 TYPICAL PAVEMENT MARKINGS (TC-13) FOR ADDITIONAL INFORMATION.
- REFER TO DISTRICT 1 RAISED REFLECTIVE PAVEMENT MARKERS (TC-11) FOR ADDITIONAL INFORMATION.

SURFACE REMOVAL BUTT JOINT
SEE BUTT JOINTS AND HMA TAPER DET



MATCHLINE STA. 375+00



MATCHLINE STA. 389+00
SEE SHEET 21

MATCHLINE STA. 389+00
SEE SHEET 20

FILE NAME : P:\2009\me09006-ver-var-phi\cadd\wo21.us20\shs\0160M46-14-Propl1.dgn
 USER NAME : Millennium Professional Services



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CHECKED -	TVN	REVISED -	
DATE -	4/1/2011	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

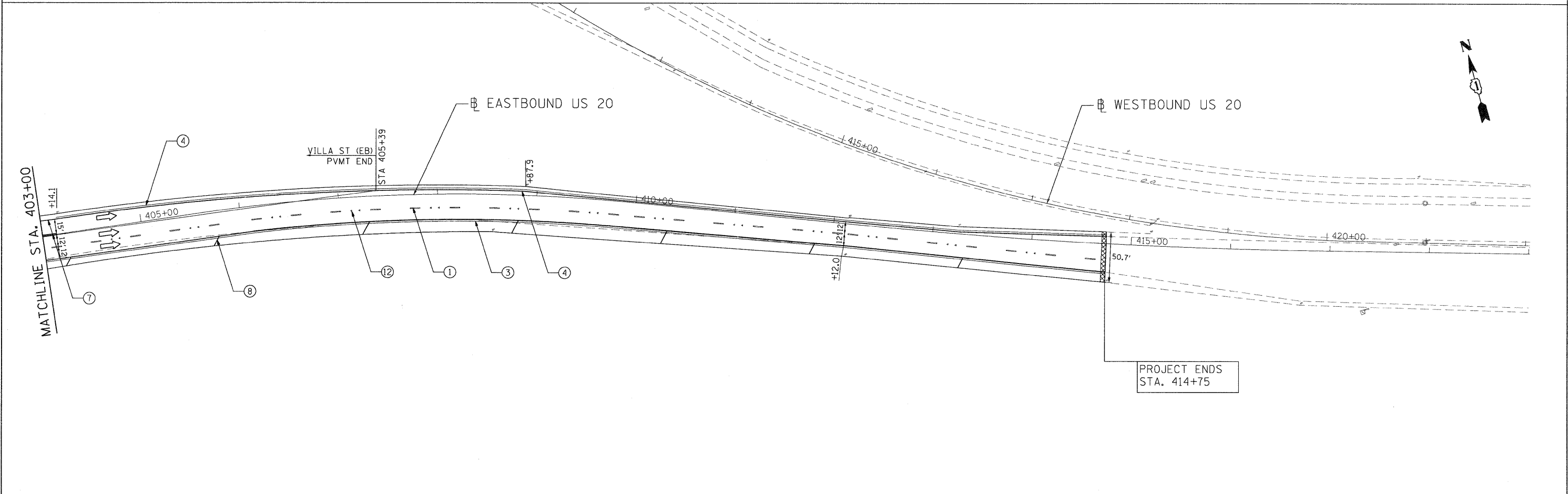
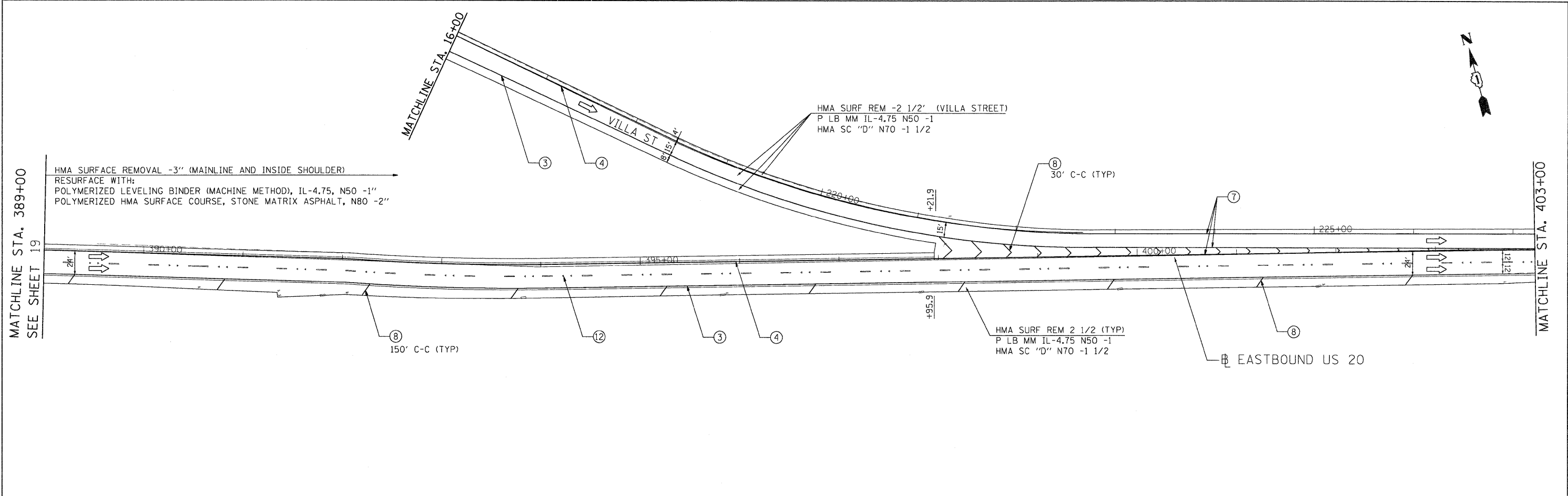
**US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY**

**ROADWAY & PAVEMENT
MARKING PLAN**


SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	19
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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FILE NAME: P:\2009\ME09066_Ver-Vor-PhI\CADD\021.US20\Shets\0160M46-15-Prop12.dgn
 USER NAME: Millennium Professional Services



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DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	4/1/2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

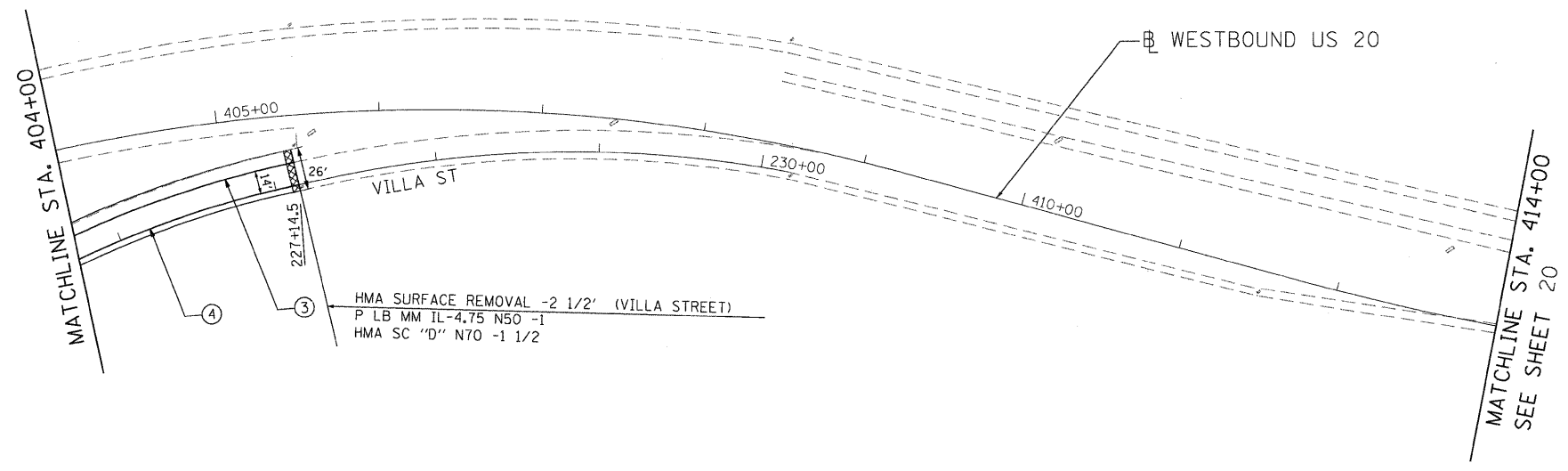
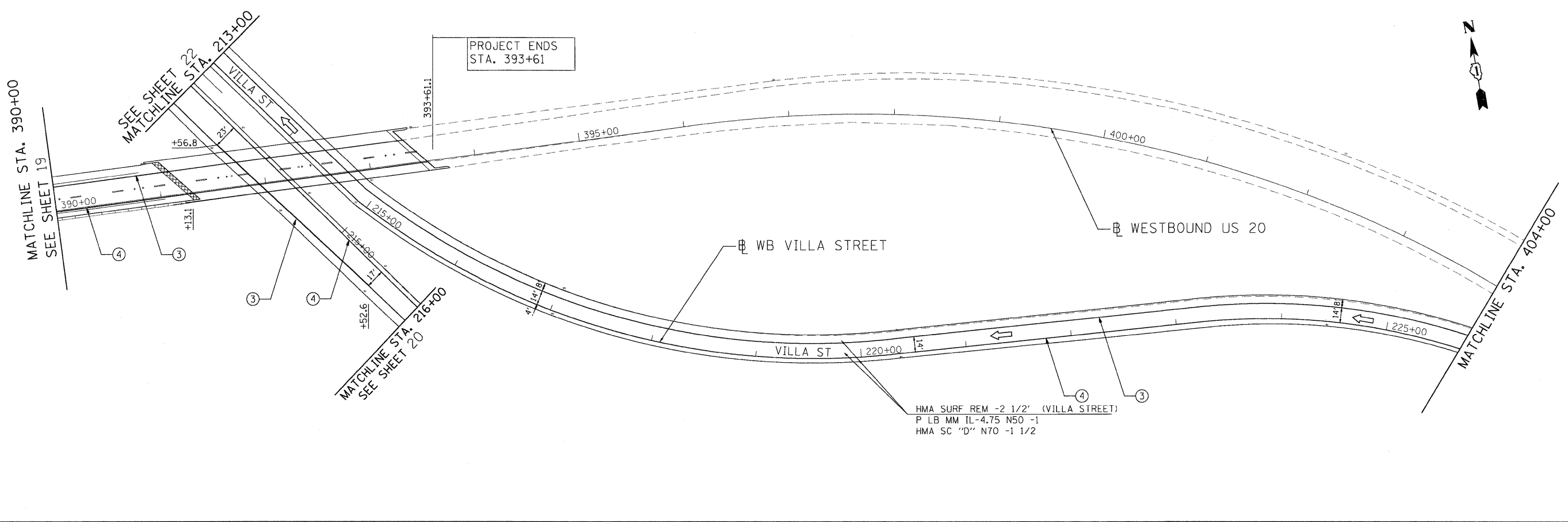
US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

ROADWAY & PAVEMENT MARKING PLAN

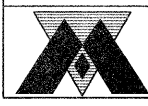
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	20
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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FILE NAME = PA\2009\ME09006_Va-Va-PR\IN\CADD\W021.US20\Shs\0160M46-39-Sign13.dgn
 PLOT SCALE = 5/8"=1'-0"
 USER NAME = Millennium Professional Services



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DEPARTMENT OF TRANSPORTATION

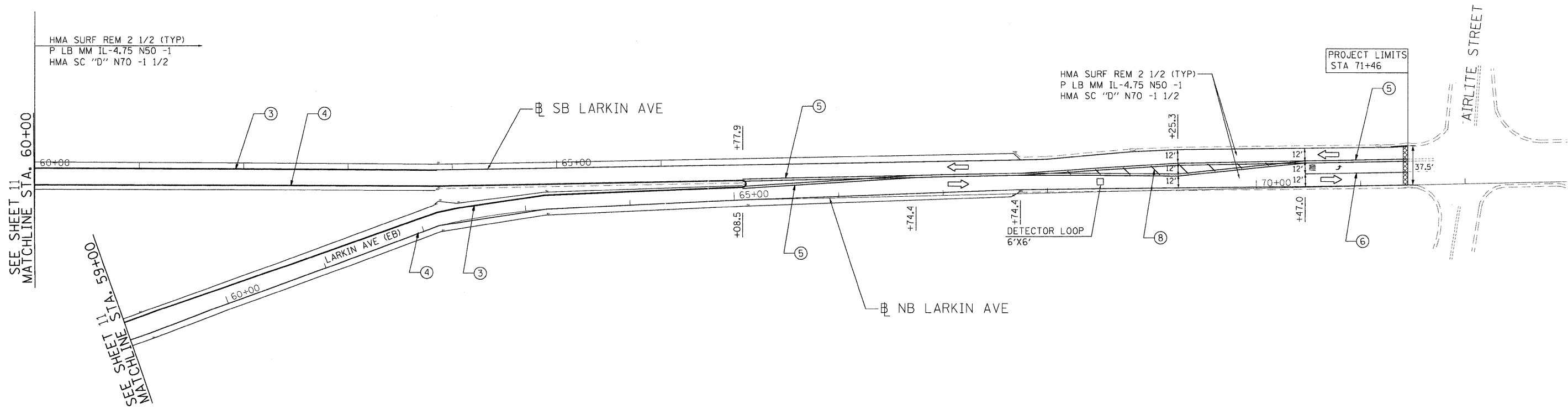
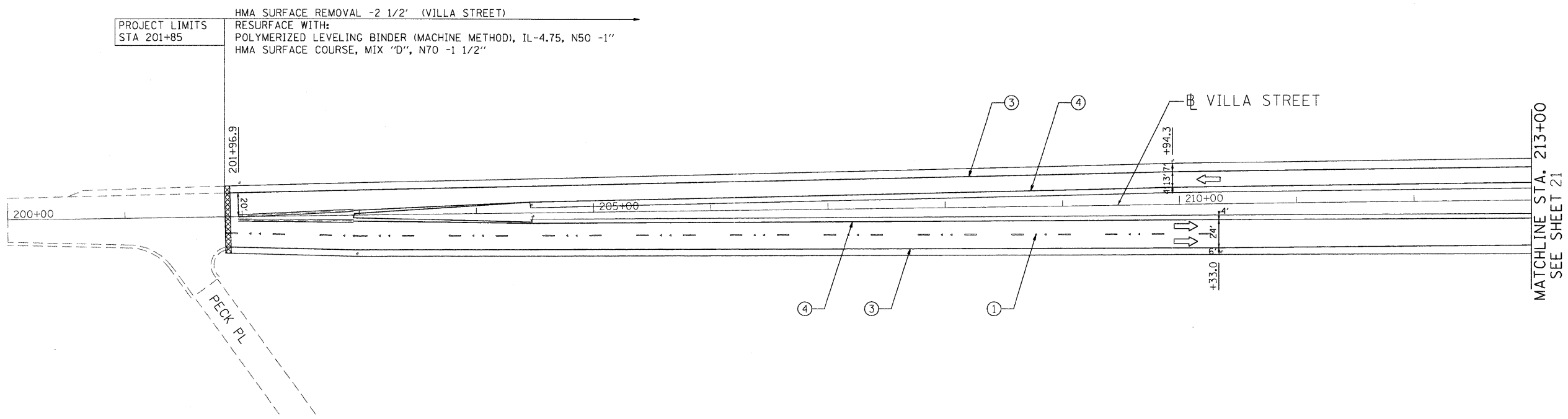
US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

ROADWAY & PAVEMENT
MARKING PLAN

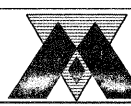
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	21
CONTRACT NO. 60M46			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

SCALE: SHEET NO. OF SHEETS STA. TO STA.

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FILE NAME : p:\2009\mg0906.var\varphi1\cadd\wo2\un2\shs\DI60M46-17-Prop14.dgn
 USER NICK : Millennium Professional Services



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

ROADWAY & PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	22
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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				SIGN PANELS													SIGN SUPPORTS						
STATION	LT/RT	SIGN NO.	LEGEND/ DESCRIPTION	EXISTING PANEL DIMENSIONS		PROPOSED PANEL DIMENSIONS		SIGN AREA (SQ FT)	72000100 SIGN PANEL TYPE 1 (SQ FT)	72000200 SIGN PANEL TYPE 2 (SQ FT)	72000300 SIGN PANEL TYPE 3 (SQ FT)	72400310 REMOVE SIGN PANEL - TYPE 1 (EACH)	72400100 REMOVE SIGN PANEL ASSEMBLY - TYPE A (EACH)	72400320 REMOVE SIGN PANEL - TYPE 2 (EACH)	72400200 REMOVE SIGN PANEL ASSEMBLY - TYPE B (EACH)	72400330 REMOVE SIGN PANEL TYPE 3 (SQ FT)	73700100 REMOVE GROUND MOUNTED SIGN SUPPORT (EACH)	72800100 - TELESOPING STEEL SIGN SUPPORT			73000100 WOOD SIGN SUPPORT		
				HEIGHT (L.F.)	WIDTH (L.F.)	HEIGHT (L.F.)	WIDTH (L.F.)											P1 (L.F.)	P2 (L.F.)	PAY LENGTH (L.F.)	P1 (L.F.)	P2 (L.F.)	PAY LENGTH (L.F.)
341+52	LT	WB-20-WP-81	W13-3 (ADVISORY RAMP SPEED)			4	3	12	-	12	-	-	-	-	1	-					16		16
339+70	LT	WB-20-LP-82	W1-1 (HORIZONTAL ALIGNMENT)			3	3	9	9	-	-	1	-	-	-	-							
339+70	LT	WB-20-LP-84	W13-3 (ADVISORY RAMP SPEED)			2.5	2	5	5	-	-	1	-	-	-	-							
339+70	LT	WB-20-LP-85	R5-1a (WRONG WAY)			2	3	6	6	-	-	1	-	-	-	-							
339+45	LT	WB-20-CL-86	25 NORTH OVERHEAD		5	15	5	15	75	-	-	75	-	-	-	75							
338+30	LT	WB-20-WP-87	E5-1 (EXIT)	7	3.5	4	5	6	30	-	-	30	-	-	1	-					17	17	34
336+80	LT	WB-20-TS-88	KANE 20-18	7	1.5	1.5	1.5	1.5	2.25	2.25	-	-	1	-	-	-			9		9		
327+49	LT	WB-20-CL-89	25 SOUTH OVERHEAD		5	15	5	15	75	-	-	75	-	-	-	75							
327+18	LT	WB-20-LP-90	W13-3 (ADVISORY RAMP SPEED)			4	3	12	-	12	-	-	-	1	-	-							
326+69	LT	WB-20-WP-91	E5-1 (EXIT)	7	3.5	4	5	6	30	-	-	30	-	-	1	-					17	17	34
325+60	LT	WB-20-WP-93	W4-1 (MERGE)	7		4	4	16	-	16	-	-	-	1	-	-					16		16
322+46	LT	WB-20-LP-94	M3-4 (WEST)			1.5	3	4.5	4.5	-	-	1	-	-	-	-							
322+46	LT	WB-20-LP-95	M1-4 (US ROUTE SIGN)			3	3	9	9	-	-	1	-	-	-	-							
319+33	LT	WB-20-BS-96	STATE ST EXIT 1/4 MILE		8.5	12	8.5	12	102	-	-	102	-	-	-	102							
317+58	LT	WB-20-TS-98	FOX RIVER	7		1.5	2	3	3	-	-	-	1	-	-	-			9		9		
307+12	LT	WB-20-WP-99	STATE POLICE DISTRICT 2 HEADQUARTERS	7	4	6	4	6	24	-	-	24	-	-	-	24	1				16	16	32
305+77	LT	WB-20-WP-100	D1-3 (DESTINATION)	7	4.5	8	4.5	8	36	-	-	36	-	-	-	36	1				17	17	34
299+50	LT	WB-20-CL-102	STATE ST OVERHEAD		7.5	16	7.5	16	120	-	-	120	-	-	-	120							
297+36	LT	WB-20-WP-103	E5-1 (EXIT)	7	3.5	4	5	6	30	-	-	30	-	-	1	-					17	17	34
286+15	LT	WB-20-TS-104	KANE 20-17	7	1.5	1.5	1.5	1.5	2.25	2.25	-	-	1	-	-	-			9		9		
286+39	LT	WB-20-WP-105	W4-1 (MERGE)	7		4	4	16	-	16	-	-	-	1	-	-					16		16
278+83	LT	WB-20-WP-106	M3-4 (WEST)			1.5	3	4.5	4.5	-	-	-	-	-	-	-							
278+83	LT	WB-20-WP-107	M1-4 (US ROUTE SIGN)	7		3	3	9	9	-	-	-	-	1	-	-					19		19
278+83	LT	WB-20-WP-108	Dr. Martin Luther King Jr. Memorial Highway		2.5	2	2.5	2	5	5	-	-	-	-	-	-							
278+14	LT	WB-20-LP-109	DO NOT PICK UP HITCHHIKERS		1.5	2	1.5	2	3	3	-	-	1	-	-	-							
270+32	LT	WB-20-WP-110	R2-1 (SPEED LIMIT 55 M.P.H.)	7		4	3	12	-	12	-	-	-	1	-	-					16		16
261+67	LT	WB-20-WP-111	R8-4 (EMERGENCY PARKING ONLY)	7		3	4	12	-	12	-	-	-	1	-	-					15		15
253+69	LT	WB-20-BS-112	McLEAN BLVD EXIT 1/2 MILE		5.5	14.5	5.5	14.5	79.75	-	-	79.75	-	-	-	79.75							
184+22	LT	WB-20-WP-122	D2-2 (DISTANCE)	7	2.5	4	2.5	6	15	-	-	15	-	-	1	-					15	15	30
182+57	LT	WB-20-TS-123	KANE 20-15	7	1.5	1.5	1.5	1.5	2.25	2.25	-	-	1	-	-	-			9		9		
159+95	LT	WB-20-WP-124	W1-4 (HORIZONTAL ALIGNMENT)	7		3	3	9	9	-	-	1	-	-	-	-					15		15
155+87	LT	WB-20-BS-125	RANDAL RD EXIT 1/2 MILE		5.5	12.5	5.5	12.5	68.75	-	-	68.75	-	-	-	68.75							
145+82	LT	WB-20-TS-126	OM3-R (TYPE 3 OBJECT MARKER)	7	3	1	3	1	3	3	-	-	1	-	-	-			10		10		
141+88	LT	WB-20-WP-127	W4-1 (MERGE)	7		4	4	16	-	16	-	-	-	1	-	-					16		16
135+78	LT	WB-20-WP-128	D9-2 (HOSPITAL)		4	4	4	4	16	-	16	-	-	-	-	-					19		19
135+78	LT	WB-20-WP-129	NEXT RIGHT	7	2.5	4	2.5	4	10	-	10	-	-	-	1	-							
129+51	LT	WB-20-TS-130	KANE 20-14	7	1.5	1.5	1.5	1.5	2.25	2.25	-	-	1	-	-	-			9		9		
126+67	LT	WB-20-WP-131	W13-3 (ADVISORY RAMP SPEED)	7		4	3	12	-	12	-	-	-	1	-	-					16		16
126+02	LT	WB-20-WP-132	E5-1 (EXIT)	7	3.5	4	5	6	30	-	-	30	-	-	1	-					17	17	34
30+83	LT	WB-20-WP-133	W3-3 (ADVANCED TRAFFIC CONTROL)	7	4	4	4	4	16	-	16	-	-	-	1	-					16		16
30+83	LT	WB-20-WP-134	R5-1a (WRONG WAY)			2	3	6	6	-	-	-	-	-	1	-							
31+99	LT	WB-20-WP-135	LEFT TURN, STRAIGHT, RIGHT TURN	7	2.5	3	2.5	3	7.5	7.5	-	-	1	-	-	-					15		15
31+99	LT	EB-20-WP-136	R5-1 (DO NOT ENTER)			3	3	9	9	-	-	-	-	-	-	-							
134+17	RT	EB-20-BR-137	LARKIN AVE OVERHEAD		4.5	8	4.5	17.5	78.75	-	-	78.75	-	-	-	36							
134+17	RT	EB-20-BR-137A	LEFT			2.5	4.7	11.75	-	11.75	-	-	-	-	-	-							
131+17	RT	EB-20-WP-138	W3-3 (ADVANCED TRAFFIC CONTROL)	7		4	4	16	-	16	-	-	-	1	-	-					16		16
134+04	RT	EB-20-WP-139	R5-1a (WRONG WAY)	7		2	3	6	6	-	-	-	1	-	-	-					14		14
135+43	RT	EB-20-WP-140	R5-1 (DO NOT ENTER)	7		3	3	9	9	-	-	-	1	-	-	-					15		15
135+63	RT	EB-20-WP-141	R3-5 (MANDATORY MOVEMENT LANE CONTROL)			3	2.5	7.5	7.5	-	-	-	-	-	-	-					18		18
135+63	RT	EB-20-WP-142	R4-7 (KEEP RIGHT)	7		2.5	2	5	5	-	-	-	-	1	-	-							
135+54	RT	EB-20-LP-143A	R10-5 (LEFT ON GREEN ARROW ONLY)			3	2.5	7.5	7.5	-	-	-	1	-	-	-							
135+54	RT	EB-20-LP-143	M3-2 (EAST)			1	2	2	2	-	-	-	1	-	-	-							
135+54	RT	EB-20-LP-144	M1-4 (US ROUTE SIGN)			2	2	4	4	-	-	-	1	-	-	-							
135+54	RT	EB-20-LP-145	M6-1 (DIRECTIONAL ARROW)			1.25	1.75	2.1875	2.1875	-	-	-	1	-	-	-							
135+54	RT	EB-20-LP-146	M3-2 (EAST)			1	2	2	2	-	-	-	1	-	-	-							
135+54	RT	EB-20-LP-147	M1-4 (US ROUTE SIGN)			2	2	4	4	-	-	-	1	-	-	-							
135+54	RT	EB-20-LP-148	M6-1 (DIRECTIONAL ARROW)			1.25	1.75	2.1875	2.1875	-	-	-	1	-	-	-							
134+92	RT	EB-20-WP-149	R5-1100 (BUCKLE UP)	7		5	4	20	-	20	-	-	-	1	-	-					17		17
33+03	RT	WB-20-TS-150	R3-5 (MANDATORY MOVEMENT LANE CONTROL)			3	2.5	7.5	7.5	-	-	-	-	-	-	-					18		18
33+03	RT	WB-20-TS-151	R4-7 (KEEP RIGHT)	7		2.5	2	5	5	-	-	-	-	1	-	-							
33+05	LT	WB-20-LP-152A	R10-5 (LEFT ON GREEN ARROW ONLY)			3	2.5	7.5	7.5	-	-	-	1	-	-	-							
33+05	LT	WB-20-LP-152	M3-4 (WEST)			1	2	2	2	-	-	-	1	-	-	-							
33+05	LT	WB-20-LP-153	M1-4 (US ROUTE SIGN)			2	2	4	4	-	-	-	1	-	-	-							
33+05	LT	WB-20-LP-154	M6-1 (DIRECTIONAL ARROW)			1.25	1.75	2.1875	2.1875	-	-	-	1	-	-	-							
33+05	LT	WB-20-LP-155	M3-4 (WEST)			1	2	2	2	-	-	-	1	-	-	-							
33+05	LT	WB-20-LP-156	M1-4 (US ROUTE SIGN)			2	2	4	4	-	-	-	1	-	-	-							
33+05	LT	WB-20-LP-157	M6-1 (DIRECTIONAL ARROW)			1.25	1.75	2.1875	2.1875	-	-	-	1	-	-	-							
115+06	LT	WB-20-LP-158	W9-1 (RIGHT LANE ENDS)			3	3	9	9	-	-	1	-	-	-	-							
112+32	LT	WB-20-LP-159	R2-1 (SPEED LIMIT 50 M.P.H.)			4	3	12	-	12	-	-	-	1	-	-							
109+54	LT	WB-20-LP-160	W4-2 (LANE ENDS)			4	4	16	-	16	-	-	-	1	-	-							
106+80	RT	WB-20-WP-161	W2-1 (INTERSECTION WARNING)	7	4	4	4	4	16	-	16	-	-	-	1	-					16		16
TOTALS									198	257	779	14	17	3	20	617	2	53	0	53	425	116	541

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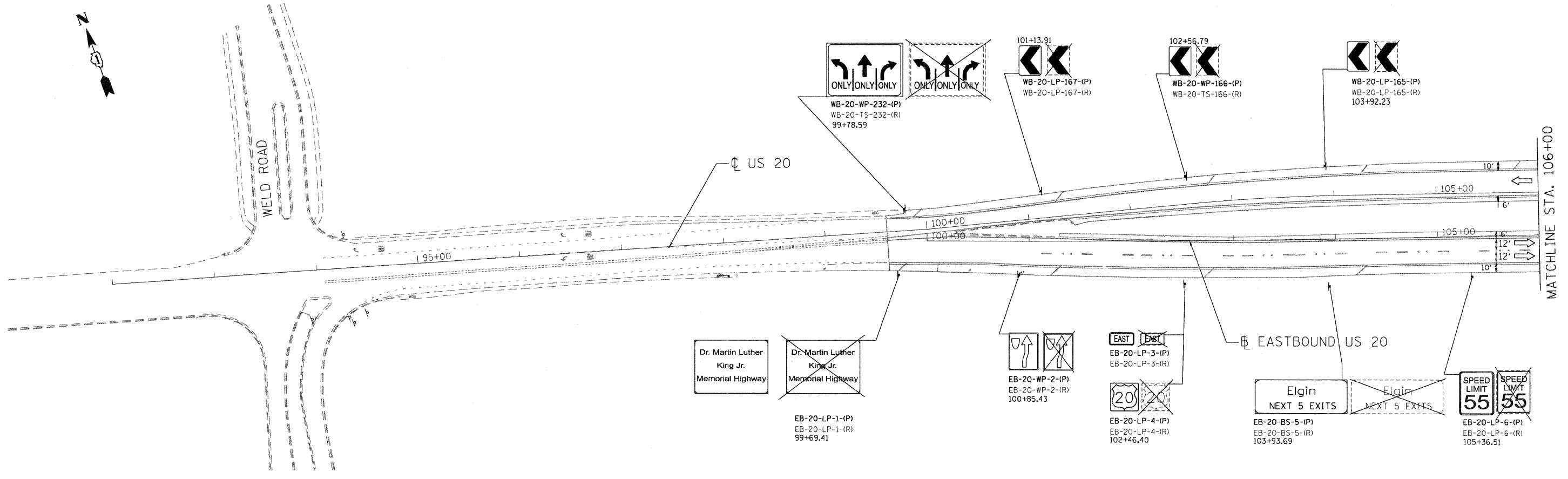
200 22ND Street, Suite 216, Lombard, IL 60148
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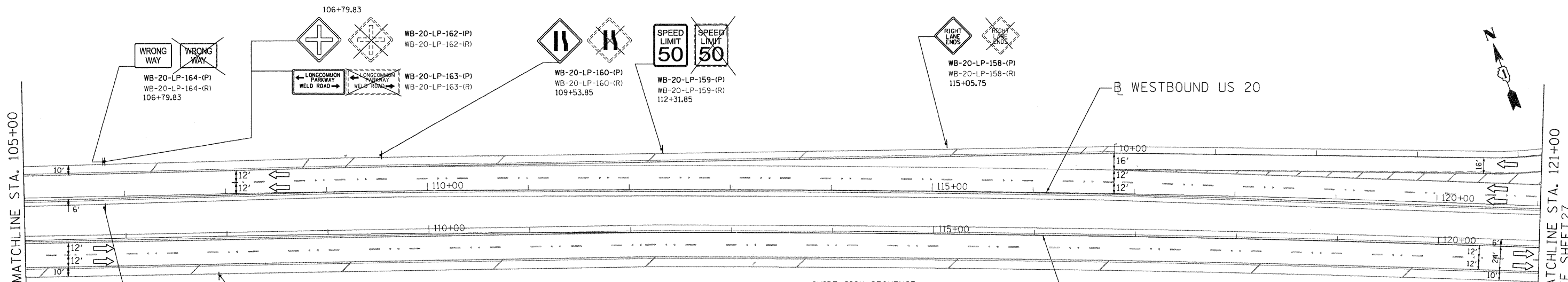
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DRAWN -	CJD	REVISED -	
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DATE -	4/4/2011	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY**</



MATCHLINE STA. 106+00



MATCHLINE STA. 105+00

MATCHLINE STA. 121+00
SEE SHEET 27



GUIDE SIGN SEQUENCE NUMBERING CODE EXAMPLE

NB-20-TR-34-(R)

DIRECTION OF TRAFFIC
 NB - NORTHBOUND
 SB - SOUTHBOUND
 EB - EASTBOUND
 WB - WESTBOUND

ROADWAY OR INTERCHANGE
 20 - ILLINOIS ROUTE 20
 LK - LARKIN ROAD

REMOVE (R)
 PROPOSED (P)
 EXISTING (E)

SIGN PANEL NUMBER

MOUNTING TYPE
 TR - TRUSS
 CL - CANTILEVER
 BR - BRIDGE MOUNTED
 WP - WOOD POLE
 TS - TELESCOPIC STEEL
 BS - BREAKAWAY STEEL
 CY - CANOPY MOUNTED
 CW - CONCRETE WALL
 ST - STEEL TUBULAR
 LP - LIGHT POLE

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 USER NAME = Millennium Professional Services

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CHECKED -	TVN	REVISED -	
DATE	4/4/2011	REVISED -	

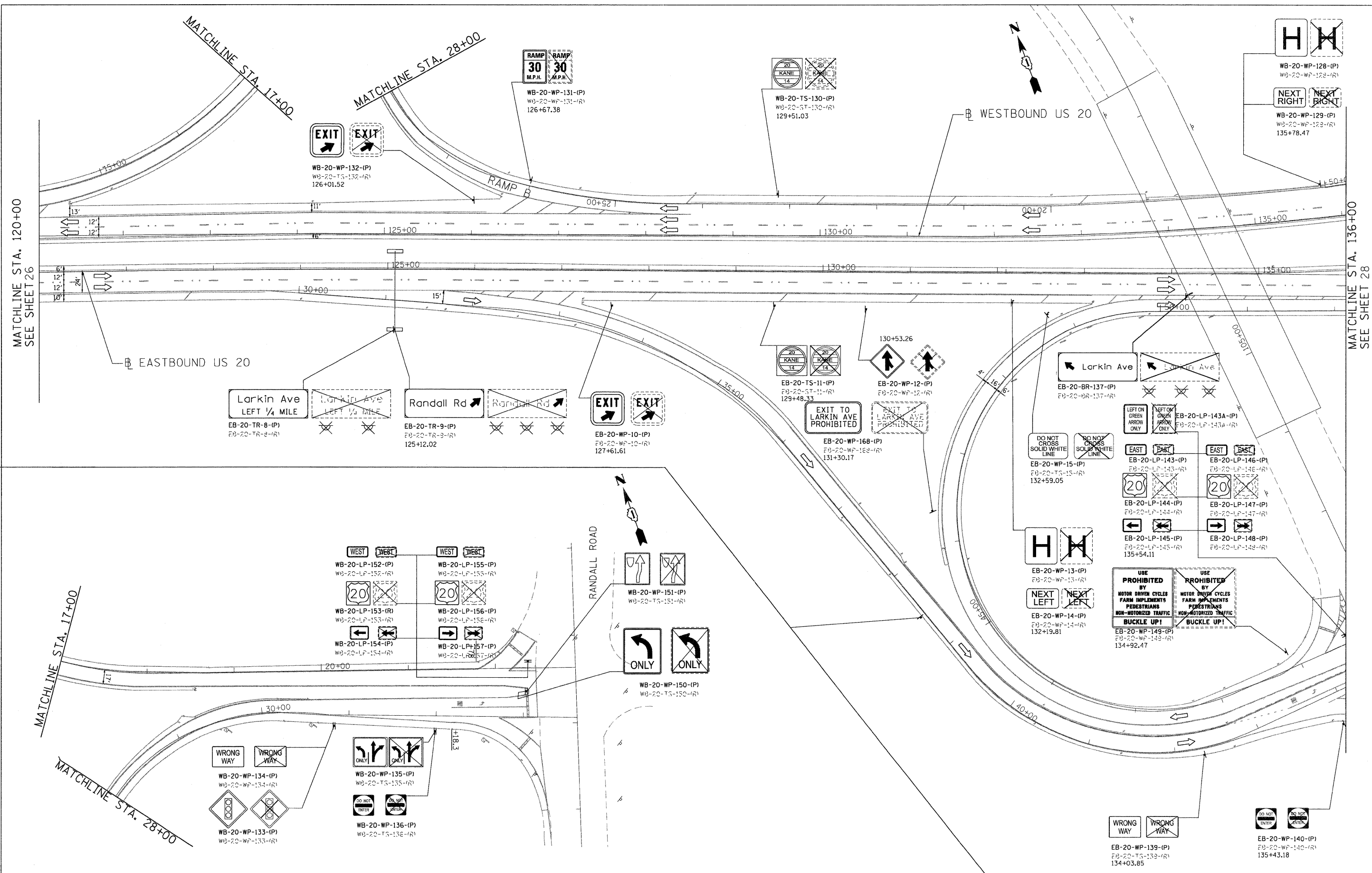
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)
 RANDALL RD TO SHALES PARKWAY**


SIGNING PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	8R-1-RS-4	KANE/COOK	124	26
CONTRACT NO. 60M46				

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



FILE NAME : P:\2009\ME09086_Ver-Var-Phn\CADD\W021.US20\Shas\0160M46-27-Sign02.dgn
 PLOT SCALE : 5/8"=1'-0"
 USER NAME : Millennium Professional Services


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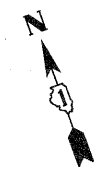
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CHECKED -	TVN	REVISED -	
DATE -	4/4/2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)		SIGNING PLAN	
RANDALL RD TO SHALES PARKWAY			
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	

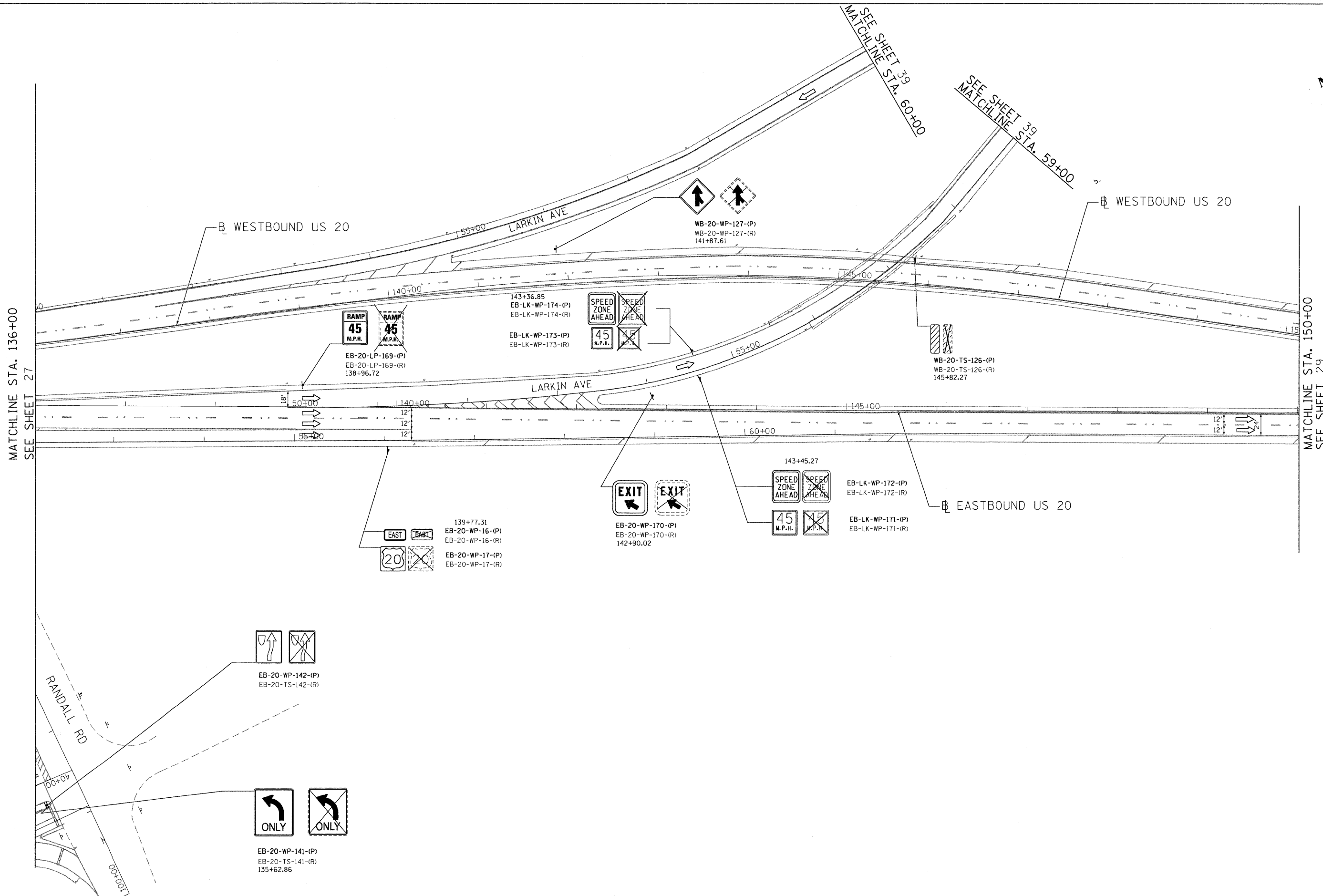
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	27
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60M46	

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MATCHLINE STA. 136+00
SEE SHEET 27

MATCHLINE STA. 150+00
SEE SHEET 29



FILE NAME : P:\2009\ME09006_Ver-Ver-Phil\CADD\W021\US20\Shets\0160M46-28-Sign03.dgn
 USER NAME : Millennium Professional Services

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DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	4/4/2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

SIGNING PLAN

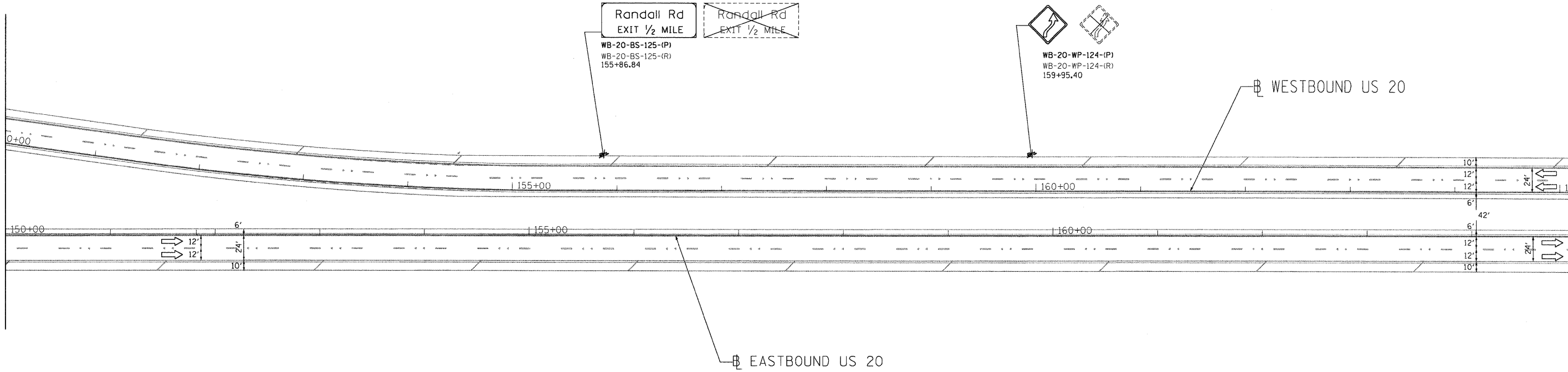
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	28
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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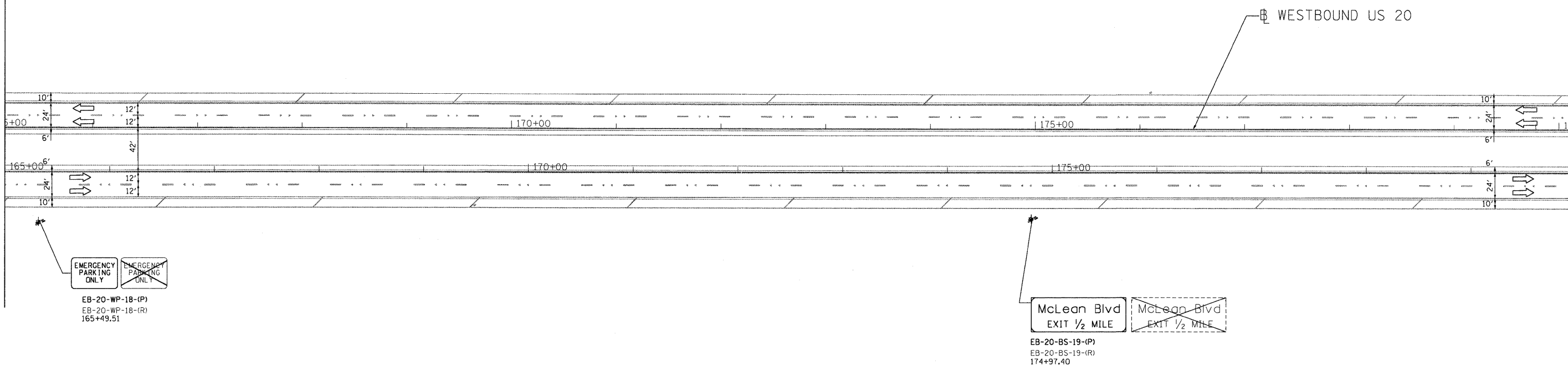
MATCHLINE STA. 150+00
SEE SHEET 28

MATCHLINE STA. 165+00



MATCHLINE STA. 165+00

MATCHLINE STA. 180+00
SEE SHEET 30



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 USER NAME : Millennium_Professional Services



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DRAWN	CJD	REVISED	-
CHECKED	TVN	REVISED	-
DATE	4/4/2011	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

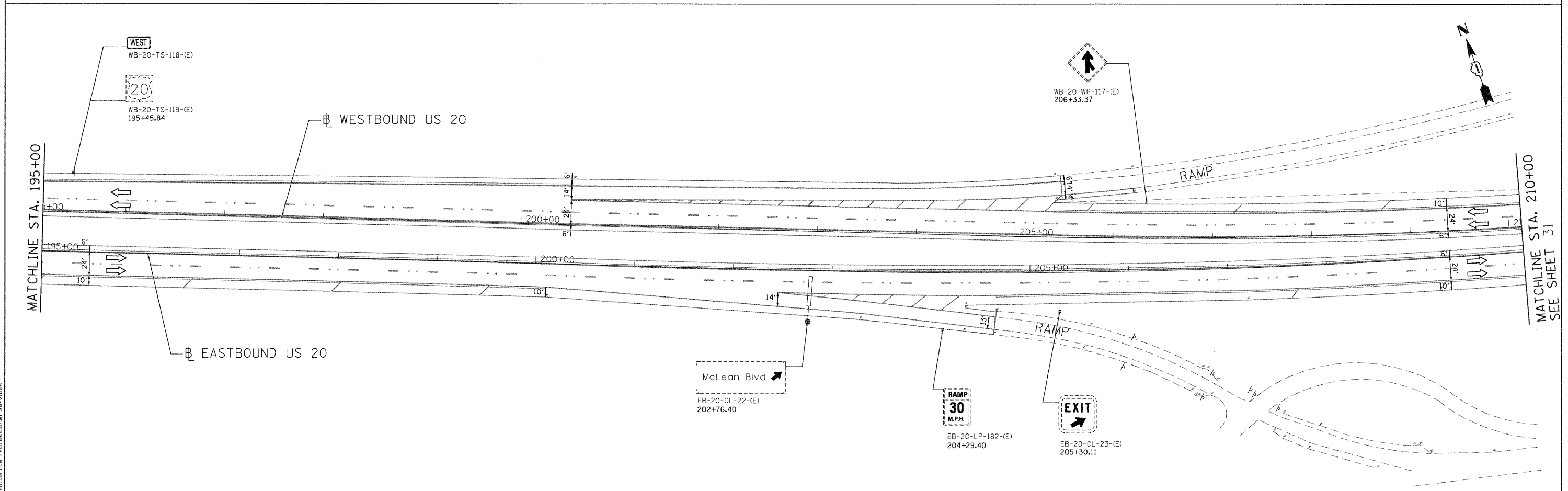
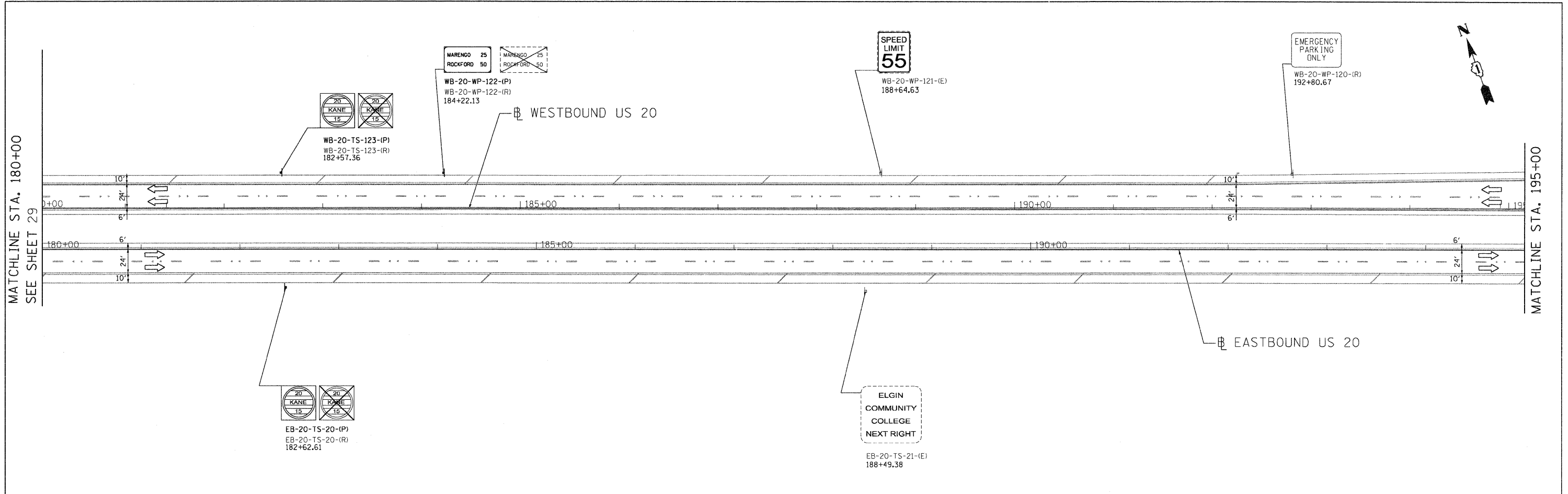
SIGNING PLAN

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	8R-1-RS-4	KANE/COOK	124	29
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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 USER : M.J. Janssen, P.E. Professional Services



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DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	4/4/2011	REVISED -	

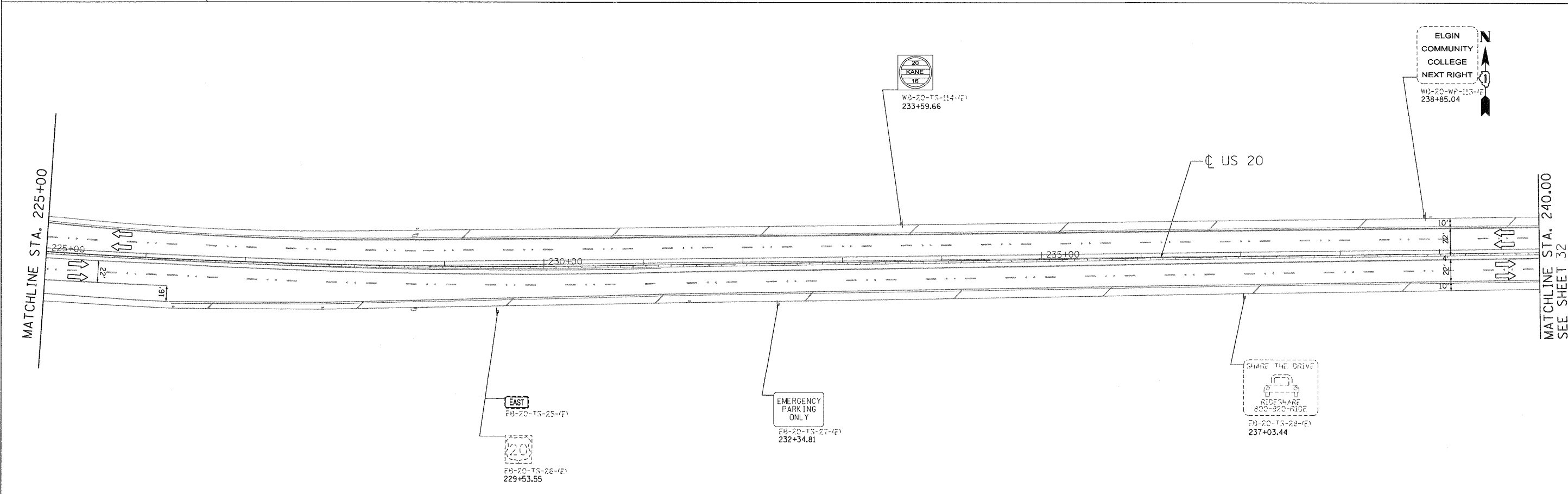
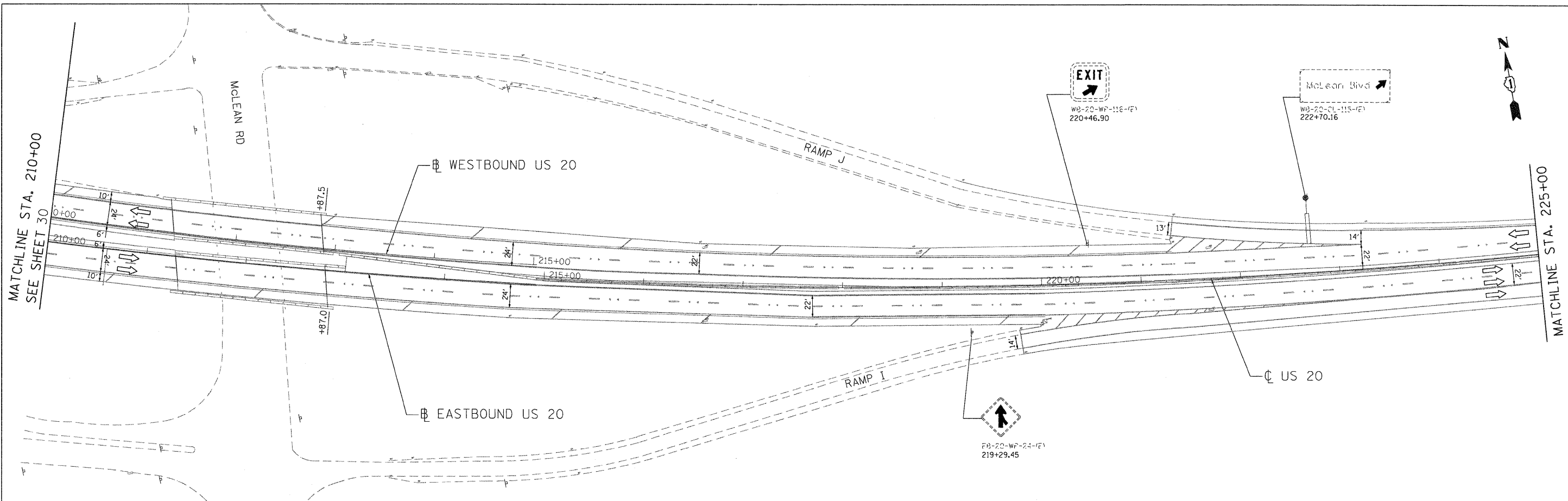
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)
 RANDALL RD TO SHALES PARKWAY**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	30
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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 PLOT SCALE: 1/8" = 1'-0"
 USER NAME: Millennium Professional Services

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CHECKED - TVN	REVISED -
DATE - 4/4/2011	REVISED -

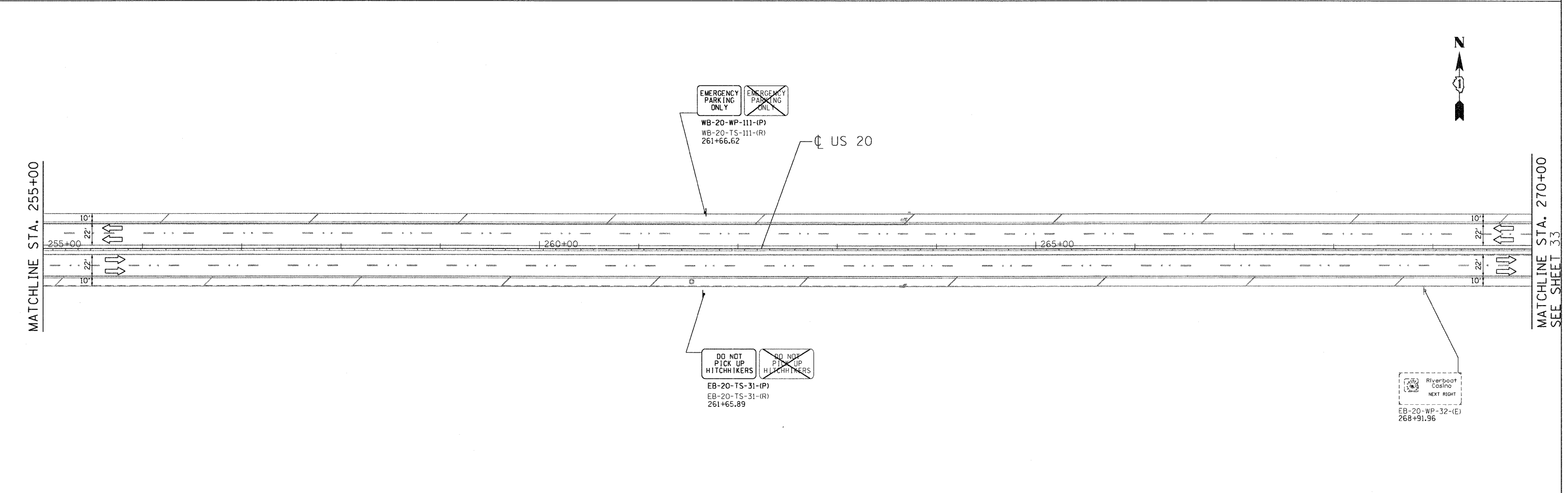
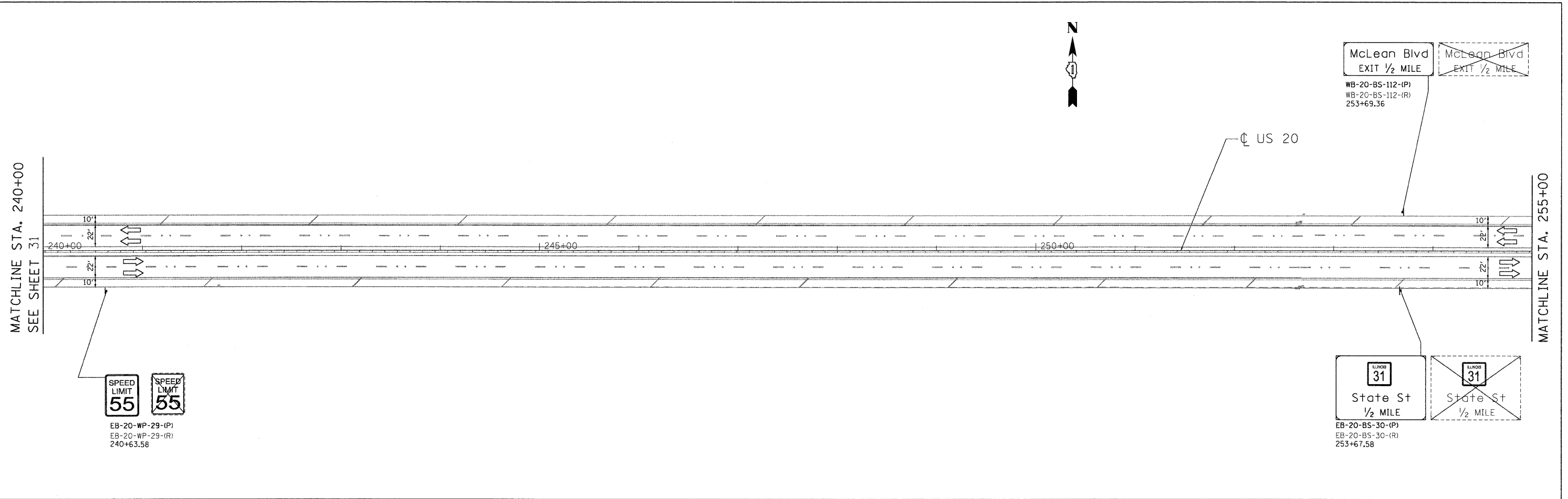
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

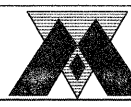
US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

SIGNING PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	8R-1-RS-4	KANE/COOK	124	31
CONTRACT NO. 60M46				

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 FILE NAME :
 USER NAME :
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CHECKED -	TVN	REVISED -	
DATE -	4/4/2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

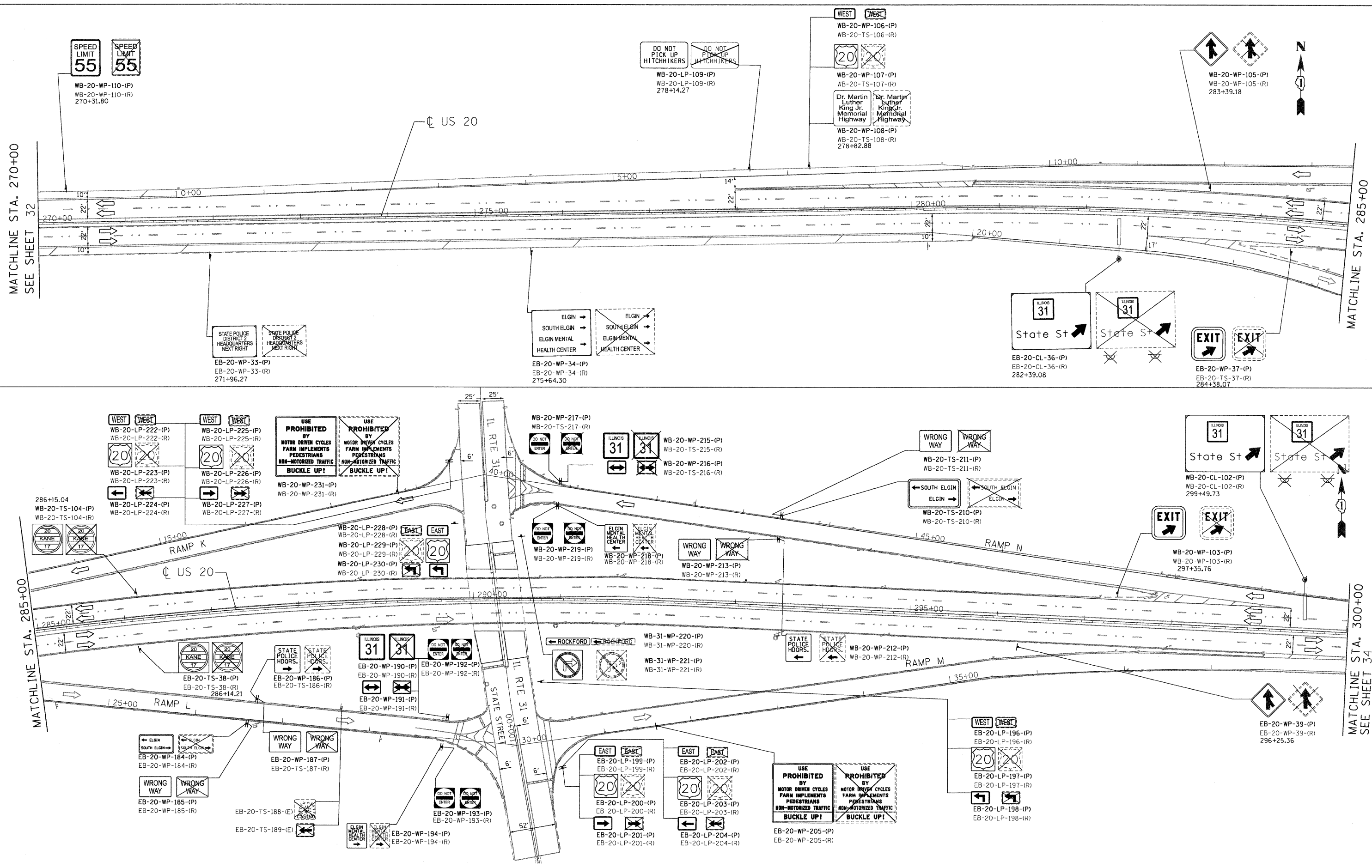
US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

SIGNING PLAN


SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	32
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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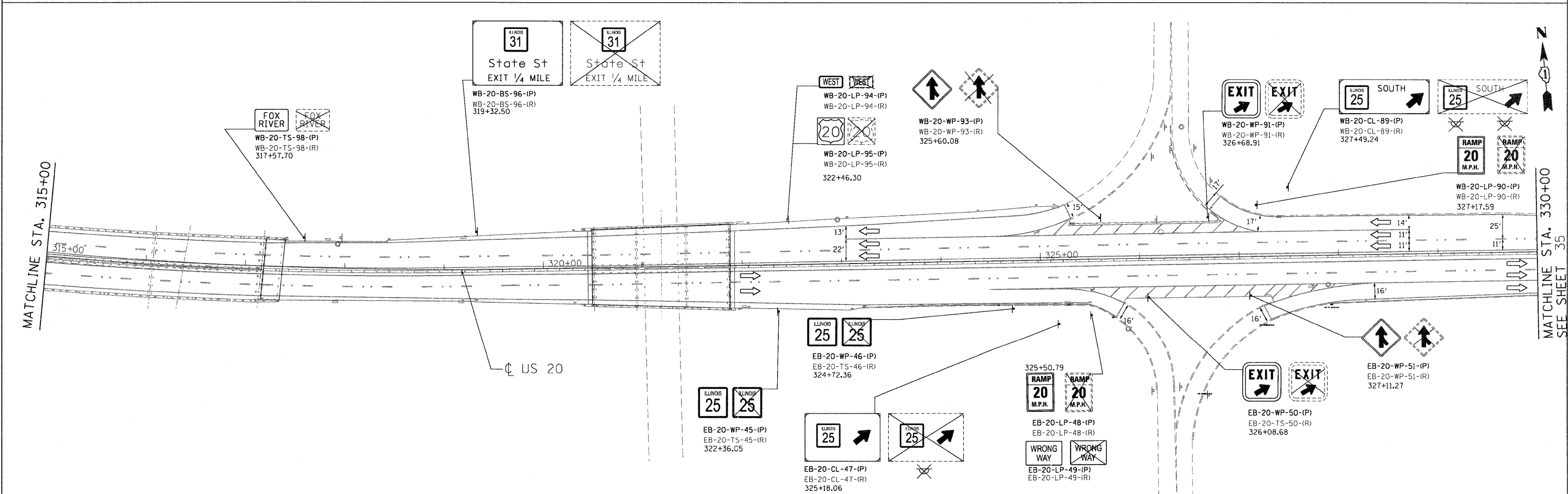
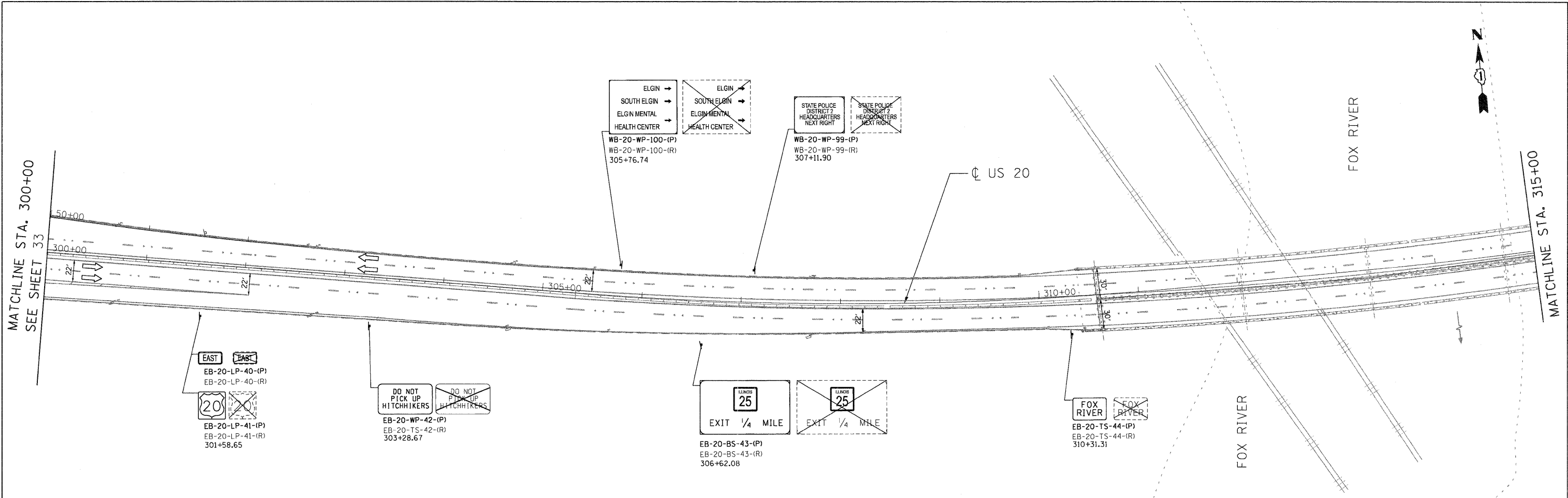
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DATE -	4/4/2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)		SIGNING PLAN	
RANDALL RD TO SHALES PARKWAY			
SCALE: -	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	33
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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DATE -	4/4/2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

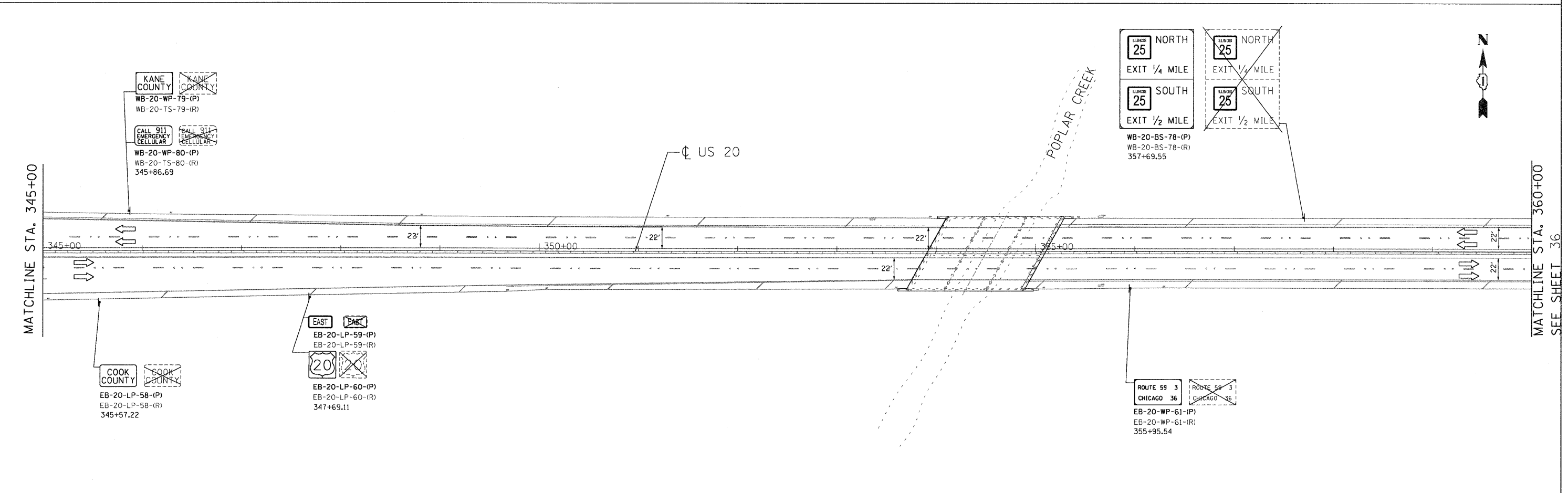
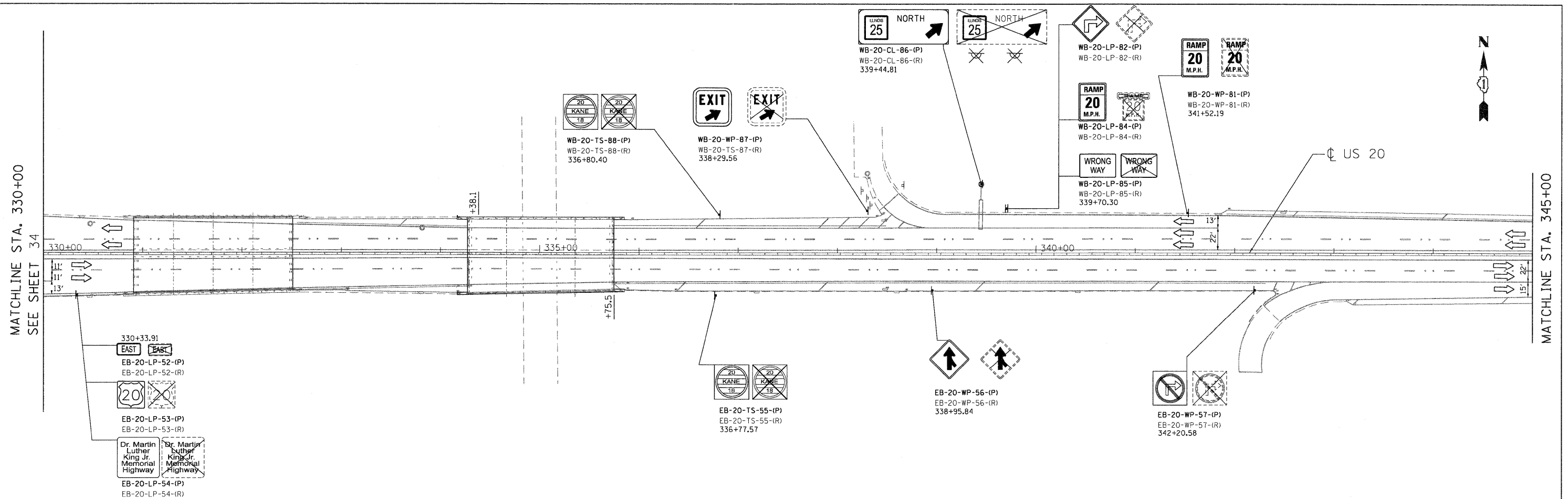
SIGNING PLAN

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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CHECKED -	TVN	REVISED -	
DATE -	4/4/2011	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)
 RANDALL RD TO SHALES PARKWAY**

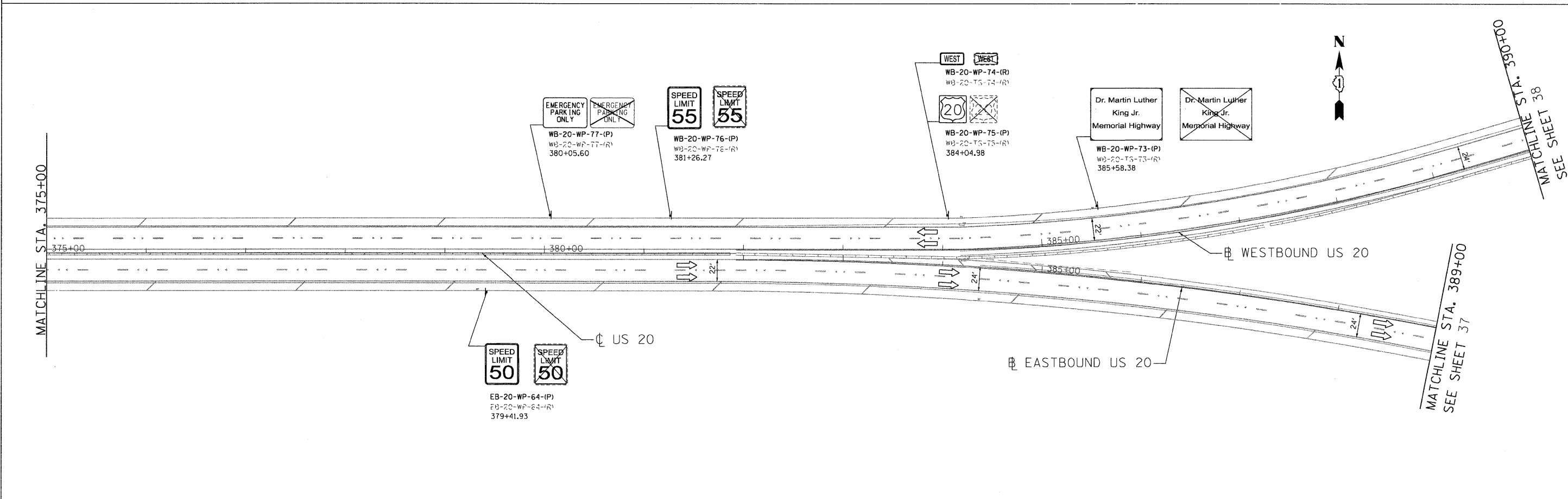
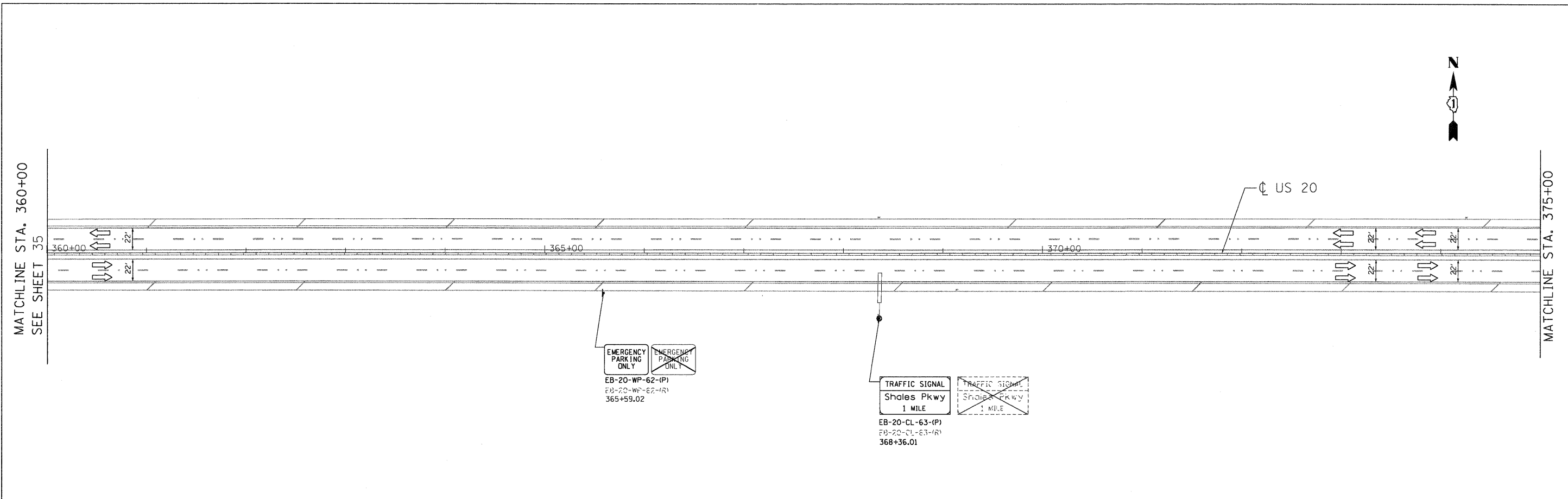
SIGNING PLAN

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	35
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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 PLOT SCALE = 50:0000 / 1" = 50'
 USER NAME = Millennium Professional Services



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DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	4/4/2011	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

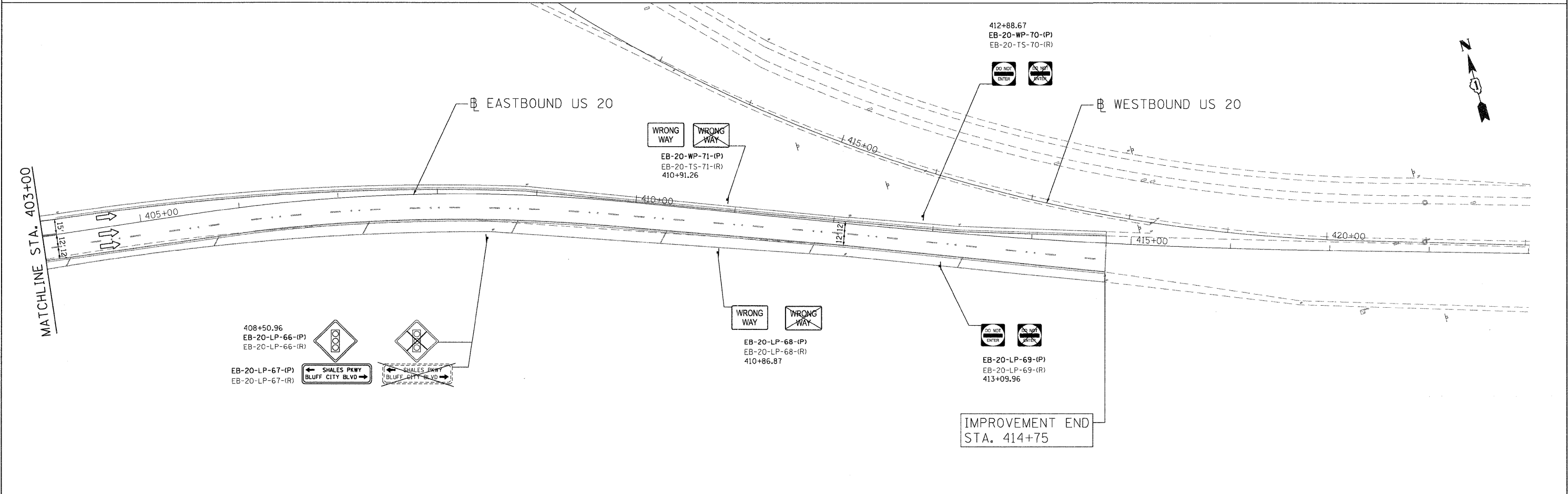
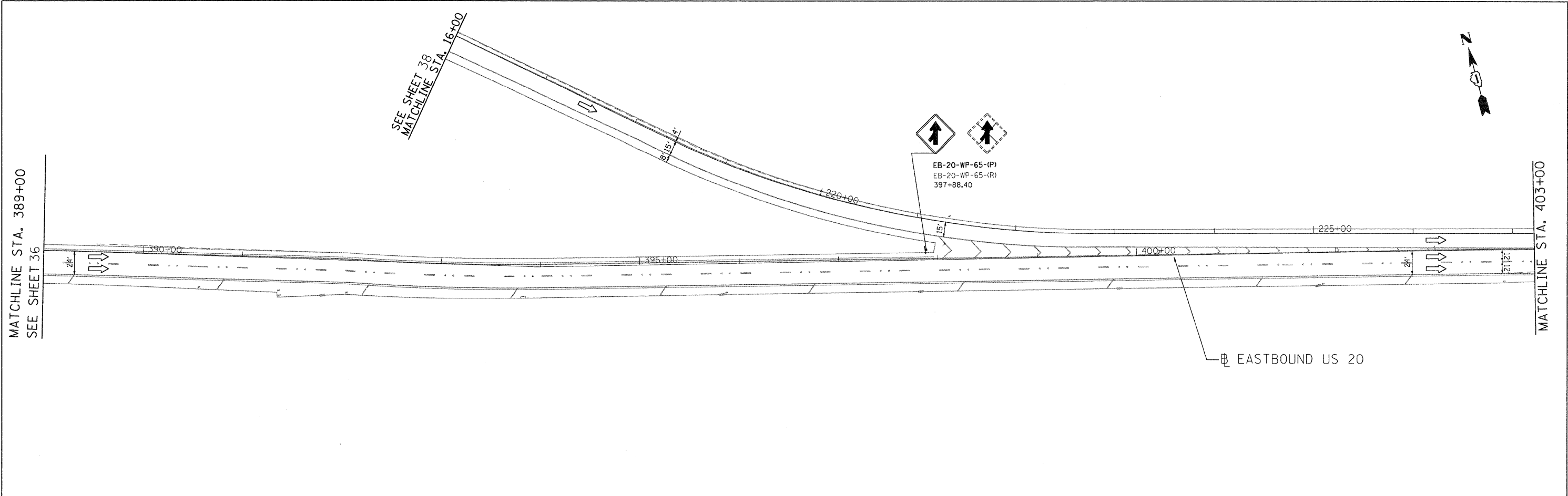
**US ROUTE 20 (LAKE STREET)
 RANDALL RD TO SHALES PARKWAY**

SIGNING PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	8R-1-RS-4	KANE/COOK	124	36
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

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 USER : Millennium Professional Services



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DESIGNED	- CJD	REVISED	-
DRAWN	- CJD	REVISED	-
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DATE	- 4/4/2011	REVISED	-

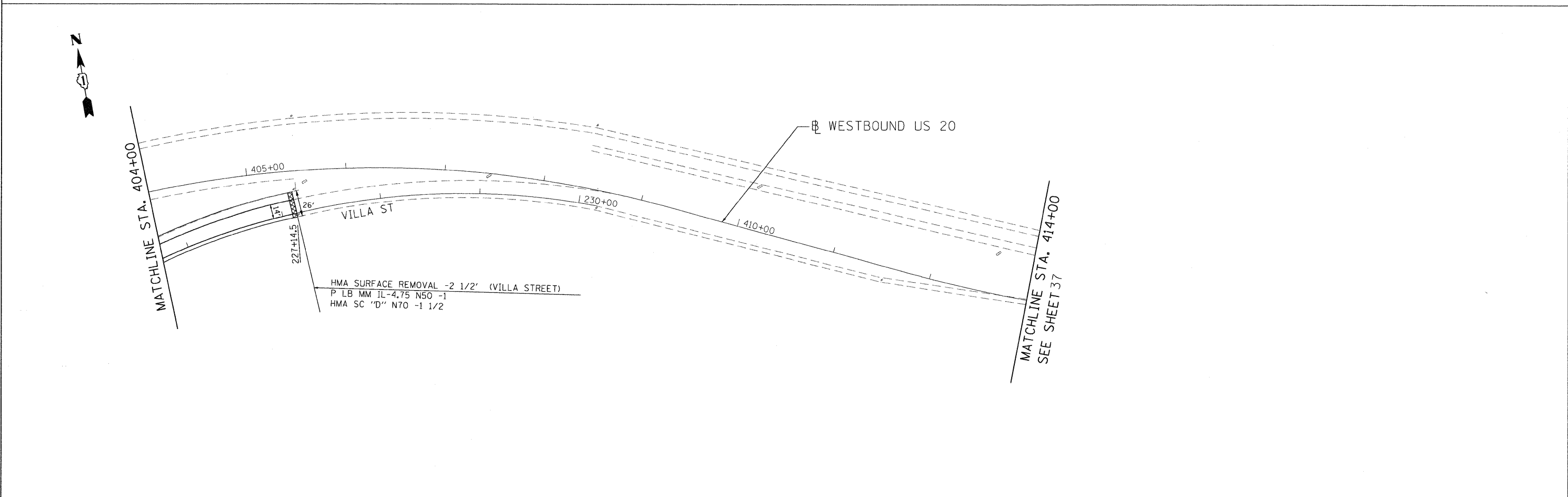
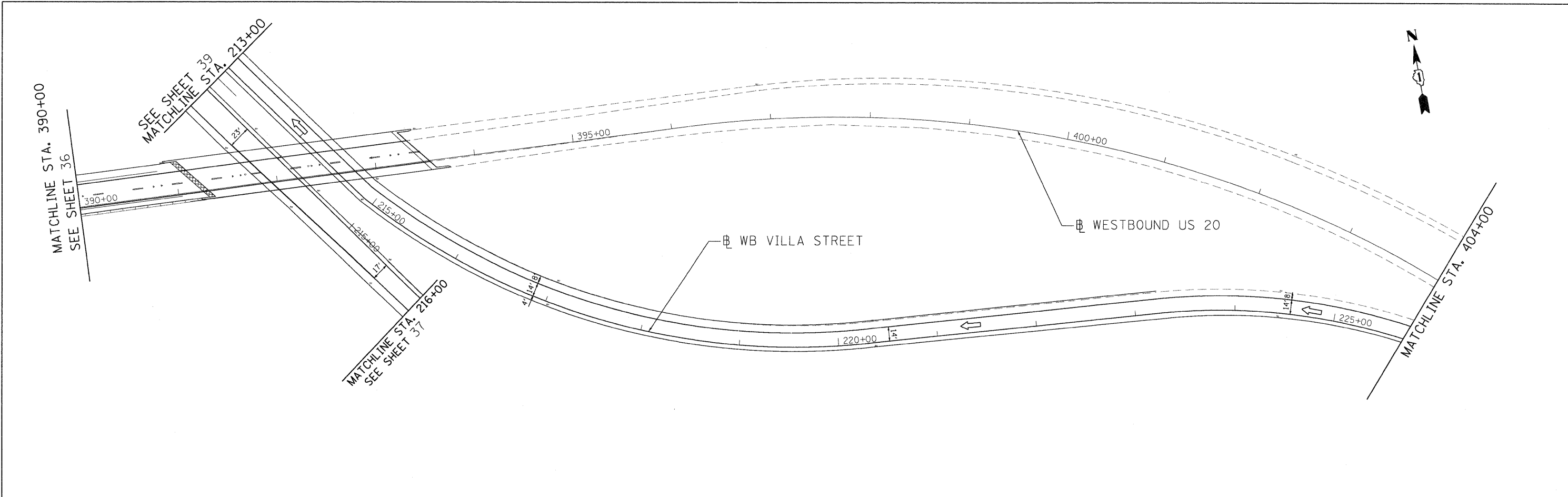
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY
SIGNING PLAN

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	37
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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 USER NAME = Millennium Professional Services



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DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	4/4/2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

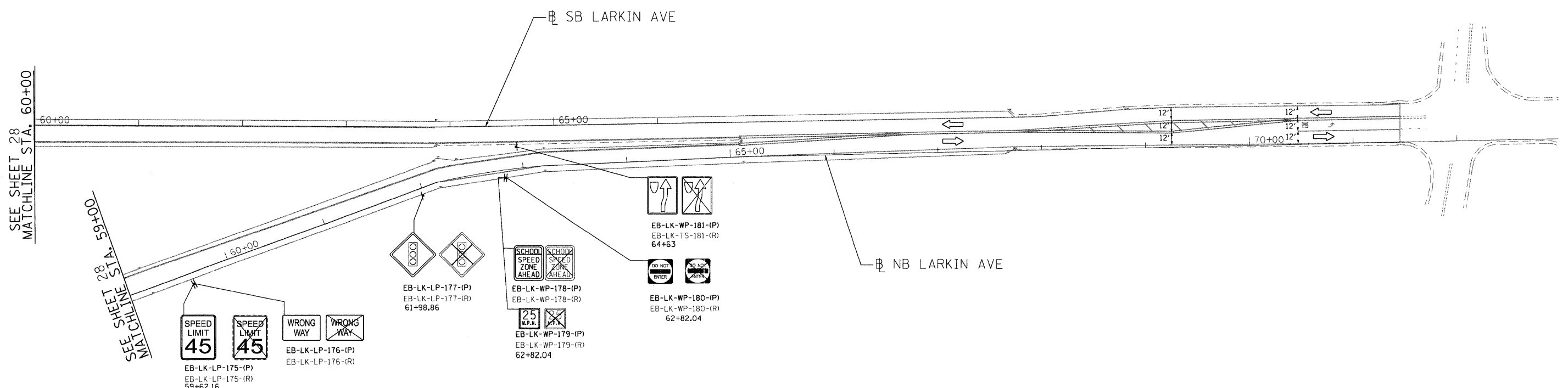
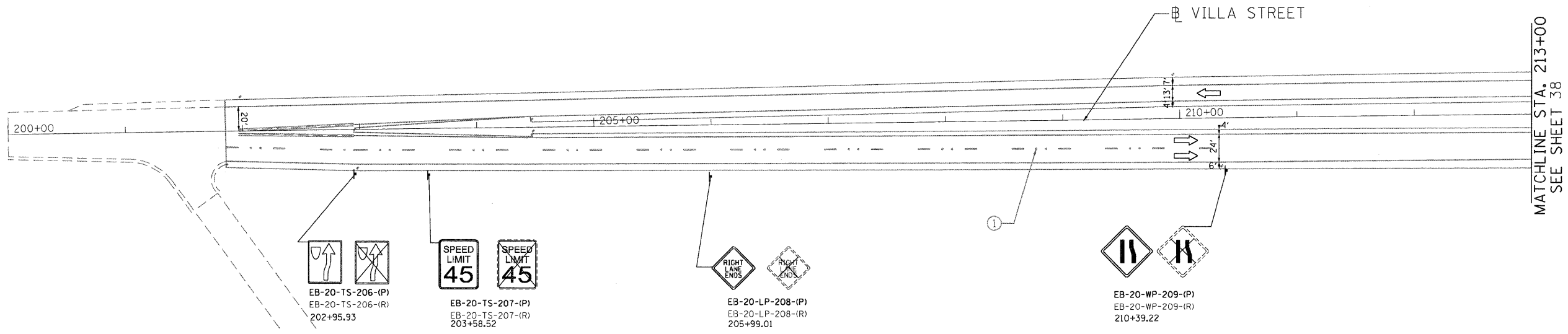
US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

SIGNING PLAN

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	38
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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 USER NAME = Millennium Professional Services

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DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	4/4/2011	REVISED -	

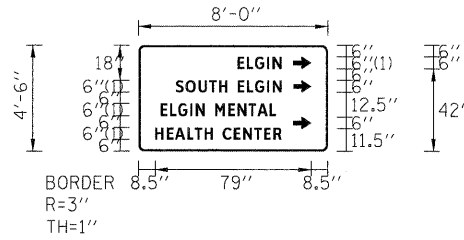
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)		SIGNING PLAN	
RANDALL RD TO SHALES PARKWAY			
SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.P. RTE. 345	SECTION BR-1-RS-4	COUNTY KANE/COOK	TOTAL SHEETS 124	SHEET NO. 39
CONTRACT NO. 60M46				

SIGN DETAIL

1:80



FONT:
(1) ClearviewHwy-3-W

Panel Style: guide_con_destination.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB-20-WP-34
WIDTH x HIGHT.	8'-0" x 4'-6"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
ARUP	270	78.5	42	6	9
ARUP	270	78.5	30	6	9
ARUP	270	78.5	11.5	6	9

LETTER POSITIONS (X)

LENGTH SERIESIZE

Letter	X	Y	Length	Seriesize
E	50.3	11.5	22.2	6
L	55.1	11.5	22.2	6
G	59.2	11.5	22.2	6
I	65.3	11.5	22.2	6
N	68.1	11.5	22.2	6
S	18.9	30	53.6	6
O	23.9	30	53.6	6
U	30.5	30	53.6	6
T	35.9	30	53.6	6
H	40.9	30	53.6	6
E	50.4	30	53.6	6
L	55.1	30	53.6	6
G	59.2	30	53.6	6
I	65.3	30	53.6	6
N	68.1	30	53.6	6
M	38.9	42	58.4	6
E	45.6	42	58.4	6
N	50.3	42	58.4	6
T	55.9	42	58.4	6
A	60.4	42	58.4	6
L	66.7	42	58.4	6
H	8.5	42	64	6
E	14.3	42	64	6
A	18.5	42	64	6
L	24.8	42	64	6
T	28.6	42	64	6
H	33.6	42	64	6
C	37.7	42	64	6
E	42.8	42	64	6
N	48.4	42	64	6
T	53.1	42	64	6
E	58.8	42	64	6
R	63.8	42	64	6

FILE NAME = P:\2009\ME\0906_Ver-Vor-PH1\CAD\W021_US20_Base\0162M46-DHS1gr02.dgn
USER NAME = Millennium Professional Services



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DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	4/4/2011	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY**

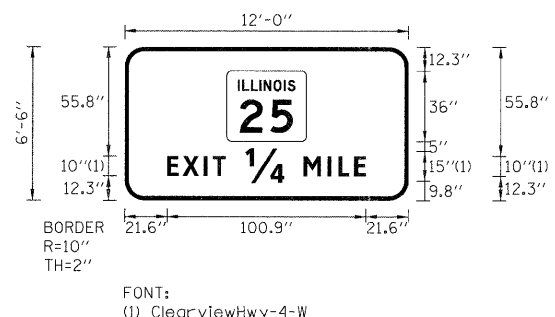
**SIGN DETAILS
STA 275 + 64**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	47
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

P:\2009\ME\0906_Ver-Vor-PH1\CAD\W021_US20_Base\0162M46-DHS1gr02.dgn

SIGN DETAIL
1:80



SIGN NUMBER	EB-20-BS-43
WIDTH x HIGHT.	12'-0" x 6'-6"
BORDER WIDTH	2"
CORNER RADIUS	10"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1-1100A-2-32-15	0	51.8	29.8	40.5	36


Panel Style: guide_exp_advance_b.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE
E	X	I	T	1/4	M	I	L	E			ClearviewHwy-4-W
21.6	29.5	40.1	44.6	61.3	91	103.1	108.5	116.6		100.9	10,15

P:\2009\ME\0906_Ver-Yor-Ph\1\CADD\W021.US20\Bases\0160M46-0HS\Sign02.dgn
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DATE - 4/4/2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY**

**SIGN DETAILS
STA 306+62**

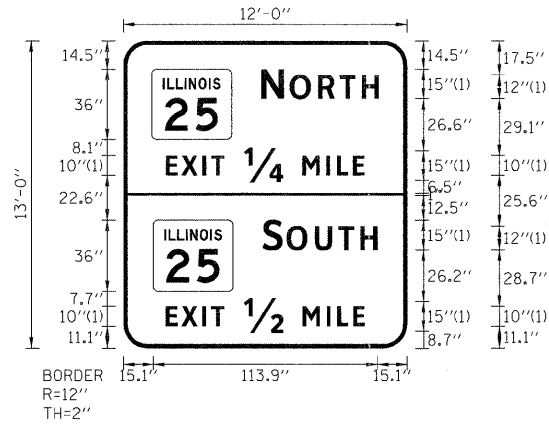
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	49
CONTRACT NO. 60M46				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
 P:\2009\ME\0906_Ver-Yor-Ph\1\CADD\W021.US20\Bases\0160M46-0HS\Sign02.dgn

SIGN DETAIL

1:80



Panel Style: guide_exp_advance_b.ssi
 Dimensions are in inches.tenths

FONT:
 (1) ClearviewHwy-4-W

Letter locations are panel edge to lower left corner

SIGN NUMBER	WB-20-BS-78
WIDTH x HGHT.	12'-0" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: GreenGreen
LEGEND/BORDER	TYPE: Reflective
	COLOR: WhiteWhite

SYMBOL	ROT	X	Y	WID	HT
M1-100A-2-32-15D		14.4	105.5	40.5	36
M1-100A-2-32-15D		15.1	28.8	40.5	36

LETTER POSITIONS (X)

										LENGTH	SERIESSIZE
N	O	R	T	H							ClearviewHwy-4-W
69.9	84.6	98.9	109.8	121.1						59.7	15,12
E	X	I	T	1/4	M	I	L	E			ClearviewHwy-4-W
21.6	29.5	40.1	44.6	61.3	91	103.1	108.5	116.6		100.9	10,15
S	O	U	T	H							ClearviewHwy-4-W
70.6	82.9	97.2	109.1	120.4						58.3	15,12
E	X	I	T	1/2	M	I	L	E			ClearviewHwy-4-W
21.5	29.5	40	44.5	61.2	91	103.2	108.6	116.7		101	10,15

FILE NAME : P:\2009\VEP\9066_Ver\or-Ph1\CADD\WD21_L528\Base\166M46-DHS-gr02.dgn
 DATE : 4/4/2011
 USED NAME : Millennium Professional Services



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DATE -	4/4/2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

SIGN DETAILS
STA 357 + 70

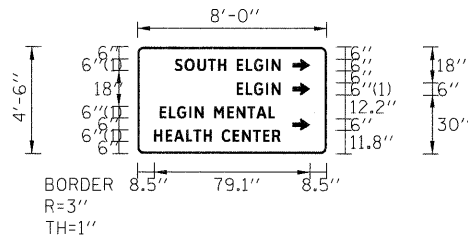
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	52
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. OF SHEETS STA. TO STA.

P:\2009\VEP\9066_Ver\or-Ph1\CADD\WD21_L528\Base\166M46-DHS-gr02.dgn

SIGN DETAIL

1:80



FONT:
(1) ClearviewHwy-3-W

Panel Style: guide_con_destination.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	WB-20-WP-100
WIDTH x HGHT.	8'-0" x 4'-6"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
ARUP	270	78.5	42	6	9
ARUP	270	78.5	30	6	9
ARUP	270	78.5	11.8	6	9

LETTER POSITIONS (X)

												LENGTH	SERIES/SIZE	
S	O	U	T	H		E	L	G	I	N				ClearviewHwy-3-W
18.9	23.9	30.5	35.9	40.9	45	50.4	55.1	59.2	65.3	68.1				53.6 6
E	L	G	I	N										ClearviewHwy-3-W
50.4	55.1	59.2	65.3	68.1										22.2 6
E	L	G	I	N		M	E	N	T	A	L			ClearviewHwy-3-W
11.3	16	20.2	26.3	29.1	33.5	38.9	45.6	50.3	55.9	60.4	66.7			58.4 6
H	E	A	L	T	H		C	E	N	T	E	R		ClearviewHwy-3-W
8.5	14.3	18.5	24.8	28.6	33.6	37.7	42.8	48.4	53.1	58.8	63.8	68.5		64 6

FILE NAME = P:\2009\ME0906_Ver-Yor-Ph1\CADD\W021.US20\Basa\0160M46-DHS\sign03.dgn
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DATE -	4/4/2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

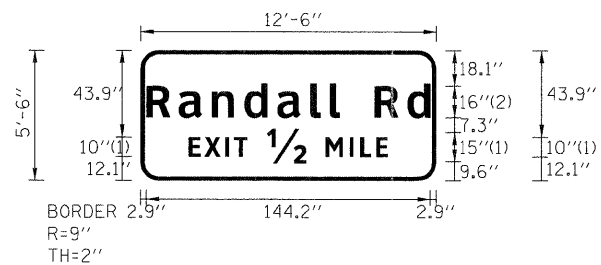
SIGN DETAILS
STA 305+77

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	56
CONTRACT NO. 60M46				

SCALE: SHEET NO. OF SHEETS STA. TO STA.

SIGN DETAIL

1:80



FONT:
(1) ClearviewHwy-4-W
(2) ClearviewHwy-5-W

Panel Style: guide_exp_advance_b.ssi
Dimensions are in inches, tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	WB-20-BS-125
WIDTH x HGHT.	12'-6" x 5'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

LETTER POSITIONS (X)										LENGTH	SERIESSIZE	
R	a	n	d	a	l	l		R	d			ClearviewHwy-5-W
2.9	19.3	36.2	52.7	69.3	86.3	96.1	101.2	118.8	135.5			144.2 1613
E	X	I	T	1/2	M	I	L	E				ClearviewHwy-4-W
24.5	32.5	43	47.5	64.2	94	106.2	111.6	119.6				101 10,15

P:\2009\ME09066_Ver\Ver-Ph1\CADD\W02LUS2A\Base\0160M46-0H51gn03.dgn
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CHECKED -	TVN	REVISED -	
DATE -	4/4/2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

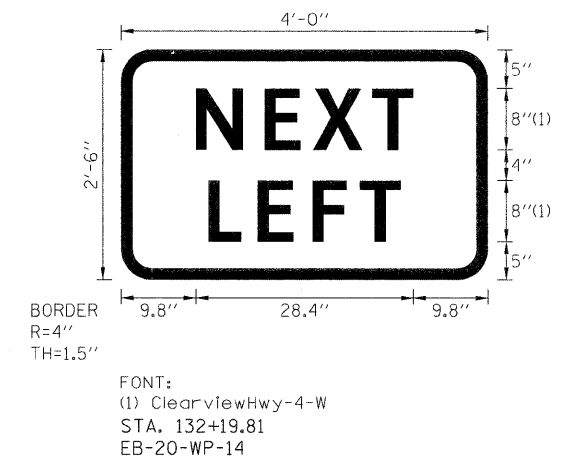
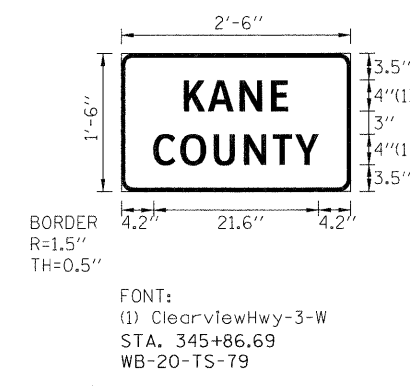
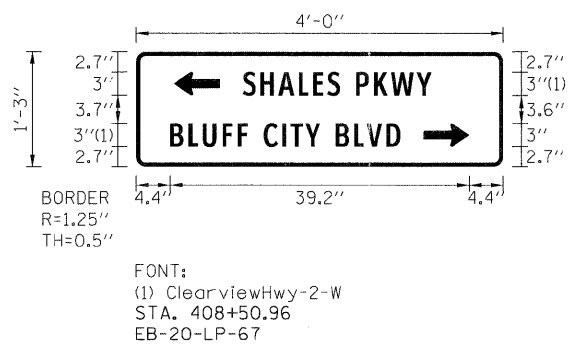
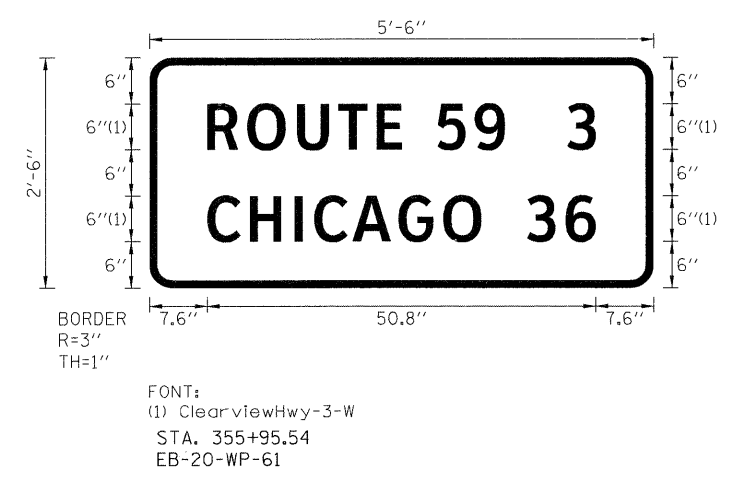
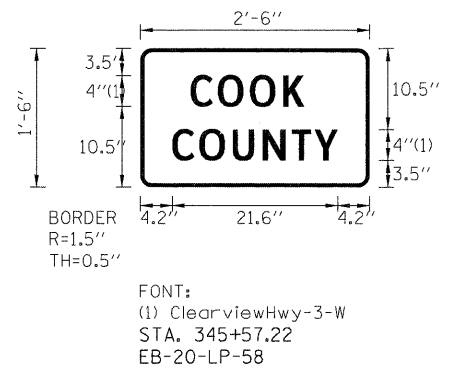
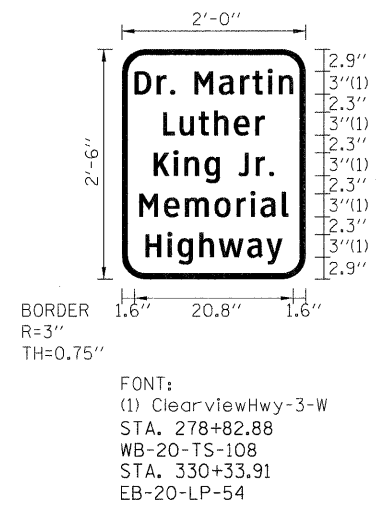
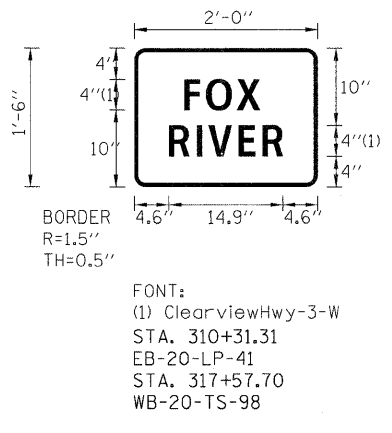
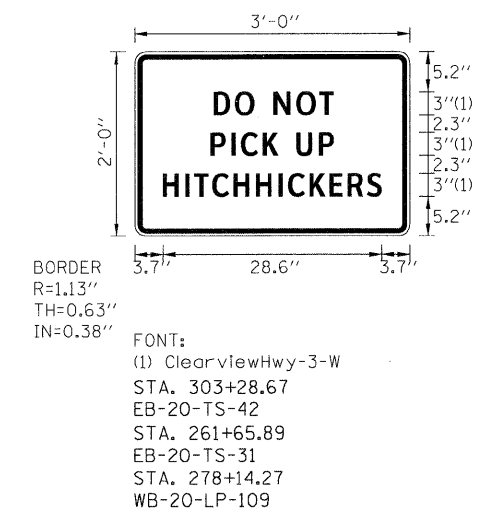
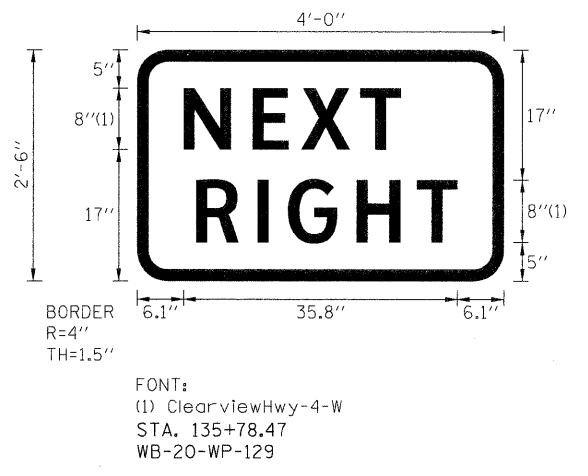
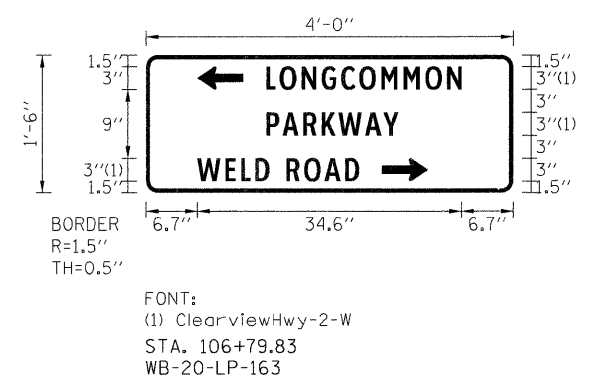
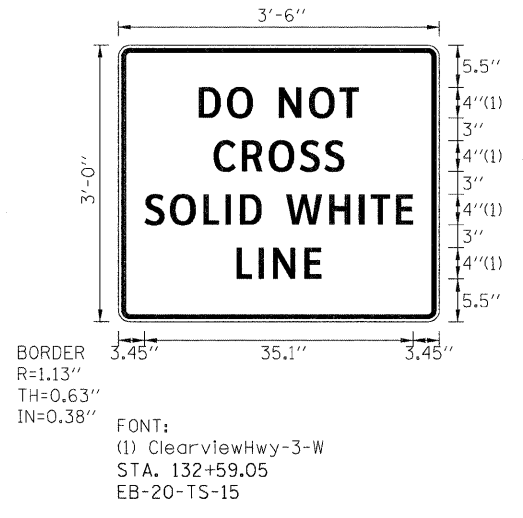
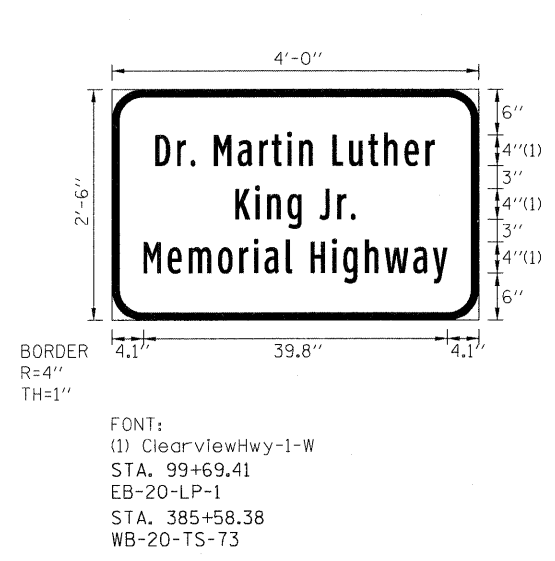
US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

SIGN DETAILS
STA 155+87

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	57
CONTRACT NO. 60M46				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



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 PLOT SCALE = 1/8"=1'-0"
 USER NAME = Millennium Professional Services

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DATE - 4/4/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY

SIGN DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	59
CONTRACT NO. 60M46				

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT
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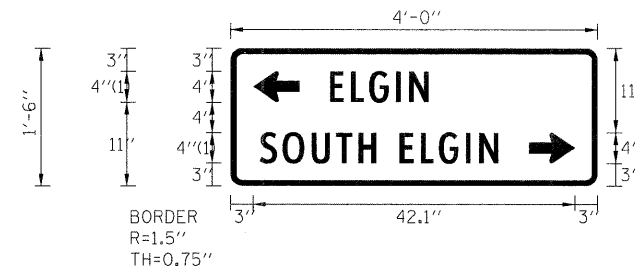
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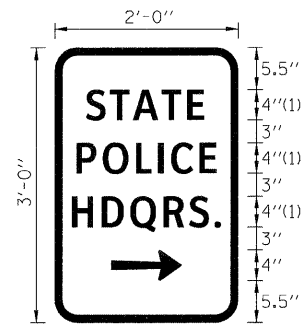
FONT:
 (1) ClearviewHwy-3-W
 (2) ClearviewHwy-2-W
 STA. 345+86.69
 WB-20-TS-80



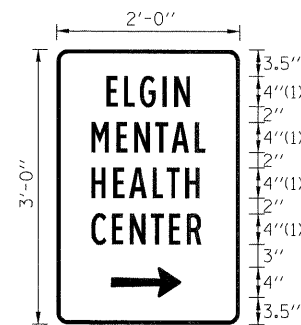
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 IN=0.38"
 FONT:
 (1) ClearviewHwy-2-W
 STA. 131+30.17
 EB-20-WP-168



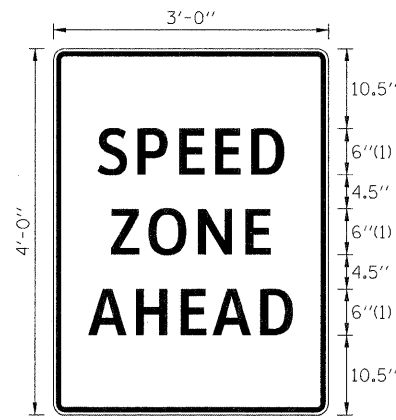
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 TH=0.75"
 FONT:
 (1) ClearviewHwy-2-W
 STA. 26+59.57
 EB-20-WP-184



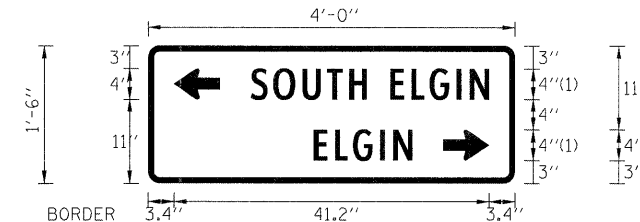
BORDER
 R=3"
 TH=1"
 FONT:
 (1) ClearviewHwy-3-W
 STA. 26+68.48
 EB-20-TS-186



BORDER
 R=1.5"
 TH=0.5"
 FONT:
 (1) ClearviewHwy-1-W
 STA. 28+83.96
 EB-20-WP-194



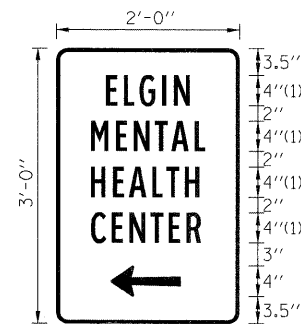
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 TH=0.63"
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 FONT:
 (1) ClearviewHwy-3-W
 STA. 143+45
 EB-LK-LP-172
 STA. 143+37
 EB-LK-WP-174



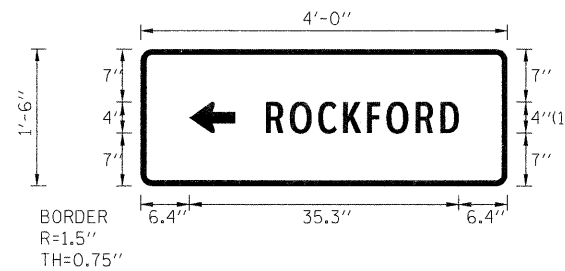
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 TH=0.75"
 FONT:
 (1) ClearviewHwy-2-W
 STA. 43+43.92
 EB-20-TS-210



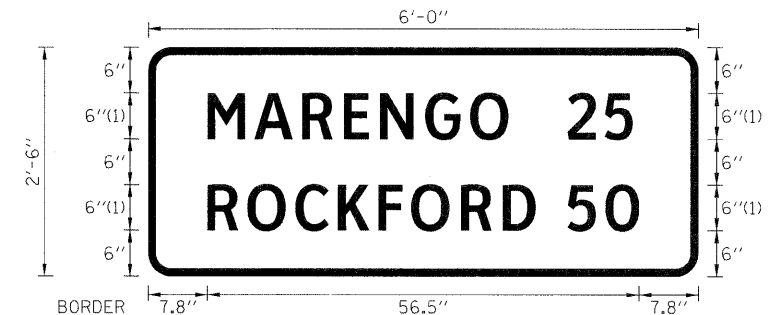
BORDER
 R=3"
 TH=1"
 FONT:
 (1) ClearviewHwy-3-W
 STA. 43+44.49
 EB-20-WP-212



BORDER
 R=1.5"
 TH=0.5"
 FONT:
 (1) ClearviewHwy-1-W
 STA. 40+88.43
 WB-20-WP-218



BORDER
 R=1.5"
 TH=0.75"
 FONT:
 (1) ClearviewHwy-2-W
 STA. 40+52.65
 WB-31-WP-220



BORDER
 R=3"
 TH=1"
 FONT:
 (1) ClearviewHwy-3-W
 STA. 184+22.13
 WB-20-WP-122

FILE NAME = P:\2009\HE09086_Ver-Var_Pht\CADD\W021.US20\Bases\0168M46-0HSig04.dgn
 PLOT SCALE = 1:8000
 USER NAME = Millennium Professional Services



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DRAWN - CJD	REVISED -
CHECKED - TVN	REVISED -
DATE - 4/4/2011	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

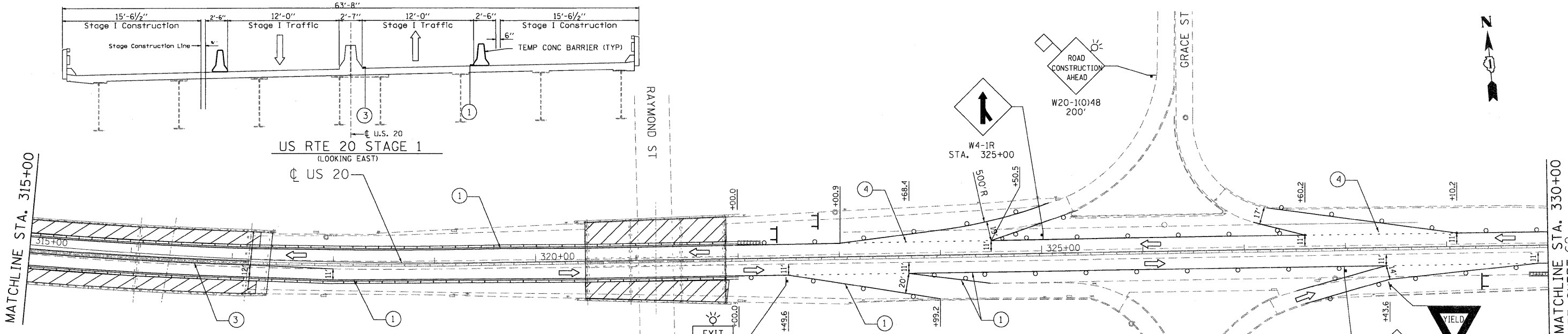
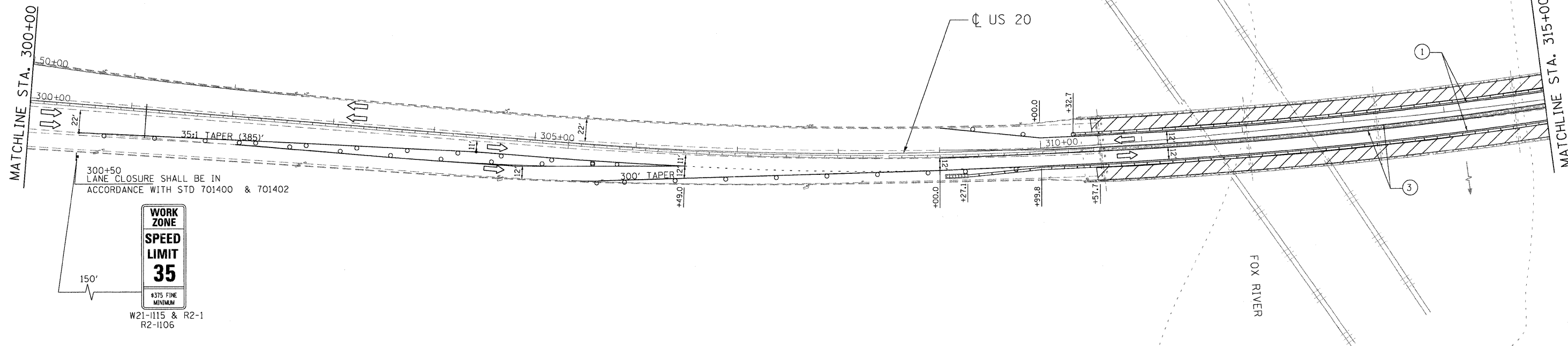
**US ROUTE 20 (LAKE STREET)
 RANDALL RD TO SHALES PARKWAY**

SIGN DETAILS

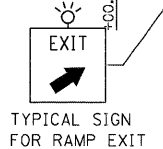
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	60
CONTRACT NO.			60M46	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

P:\2009\HE09086_Ver-Var_Pht\CADD\W021.US20\Bases\0168M46-0HSig04.dgn



- ① PAVEMENT MARKING TAPE, TYPE III 4", SOLID WHITE LINE (TYP) (70300520)
- ② PAVEMENT MARKING TAPE, TYPE III 4", SKIP-DASH WHITE LINE, 25' SKIP, 25' DASH (TYP) (70300520)
- ③ PAVEMENT MARKING TAPE, TYPE III 4", SOLID YELLOW LINE (TYP) (70300520)
- ④ PAVEMENT MARKING TAPE, TYPE III 4", SKIP-DASH WHITE LINE, 6' SKIP, 2' DASH (70300520)



- LEGEND**
- TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY (TANGENT) AND 25 FT CENTERS ALONG TAPERS.
 - ⊥ TYPE III BARRICADES WITH STEADY BURNING LIGHTS
 - ▨ WORK ZONE
 - ▭ IMPACT ATTENUATOR

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 USER NAME = M11111111 Professional Services

MILLENNIA PROFESSIONAL SERVICES
 200 22ND Street, Suite 216, Lombard, IL 60148
 630.785.8110 voice, 630.839.2566 fax
 www.mps-ll.com

DESIGNED - CJD	REVISED -
DRAWN - CJD	REVISED -
CHECKED - TVN	REVISED -
DATE - 4/1/2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY**

**SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL
STAGE I**

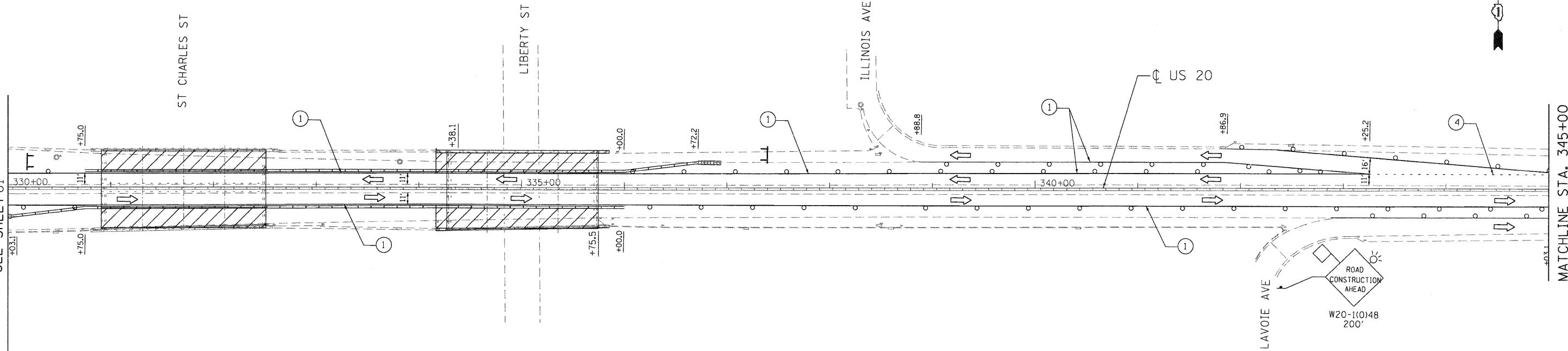
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CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. OF SHEETS STA. TO STA.

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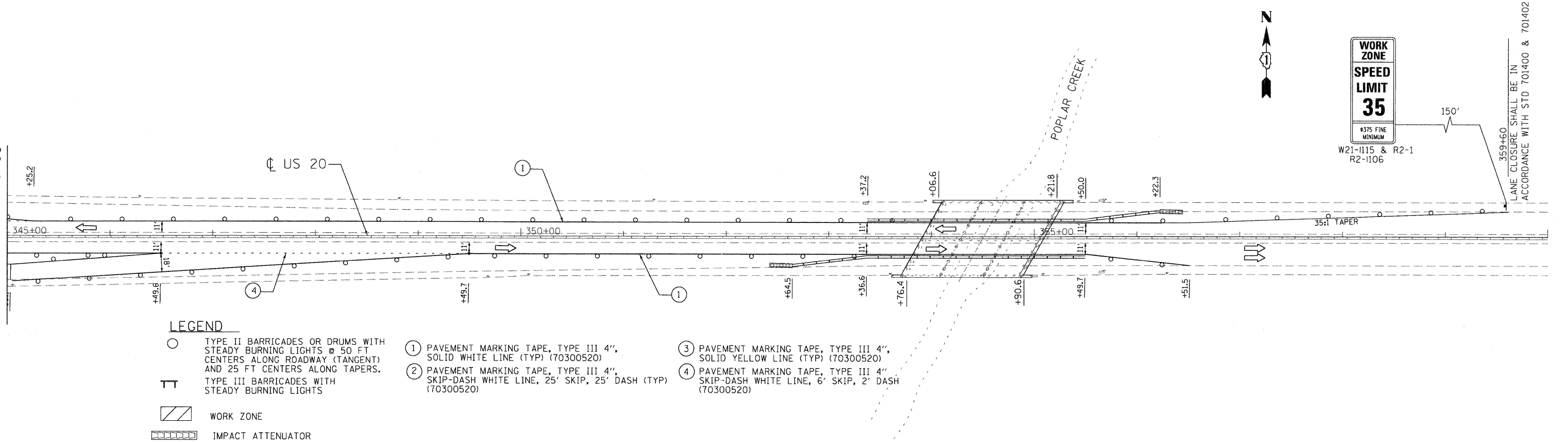
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 USER NAME = Millennium Professional Services

MATCHLINE STA. 330+00
 SEE SHEET 61



MATCHLINE STA. 345+00

MATCHLINE STA. 345+00



LEGEND

- TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY (TANGENT) AND 25 FT CENTERS ALONG TAPERS.
- TYPE III BARRICADES WITH STEADY BURNING LIGHTS
- WORK ZONE
- IMPACT ATTENUATOR

- ① PAVEMENT MARKING TAPE, TYPE III 4", SOLID WHITE LINE (TYP) (70300520)
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- ④ PAVEMENT MARKING TAPE, TYPE III 4", SKIP-DASH WHITE LINE, 6' SKIP, 2' DASH (70300520)



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DRAWN	CJD	REVISED	-
CHECKED	TVN	REVISED	-
DATE	4/1/2011	REVISED	-

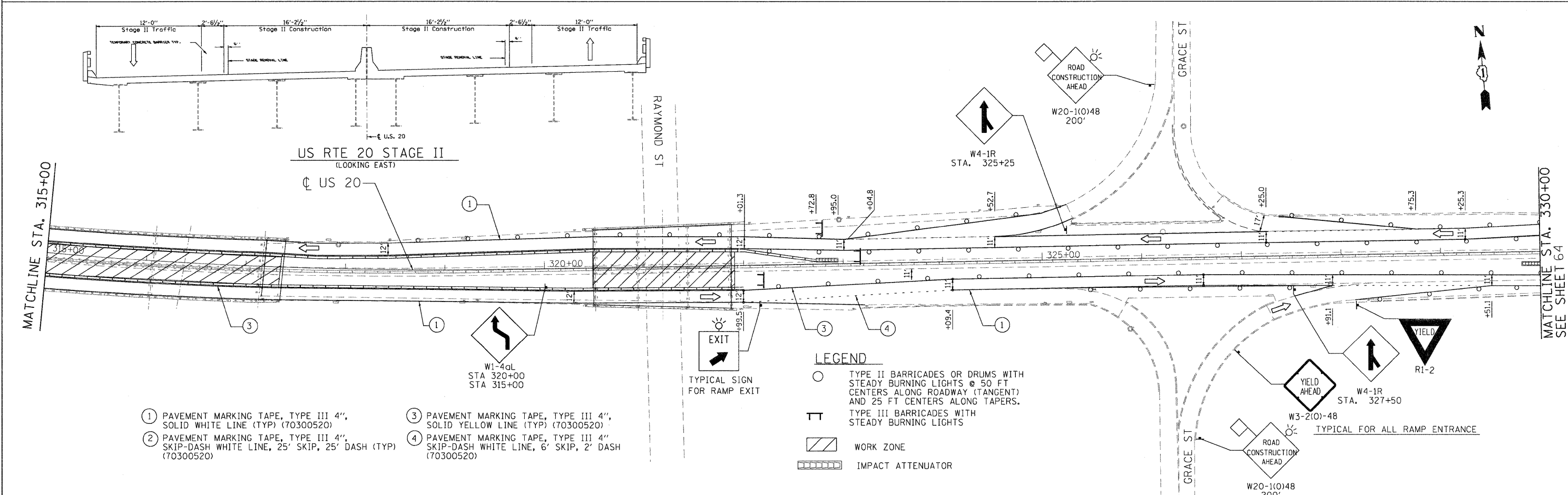
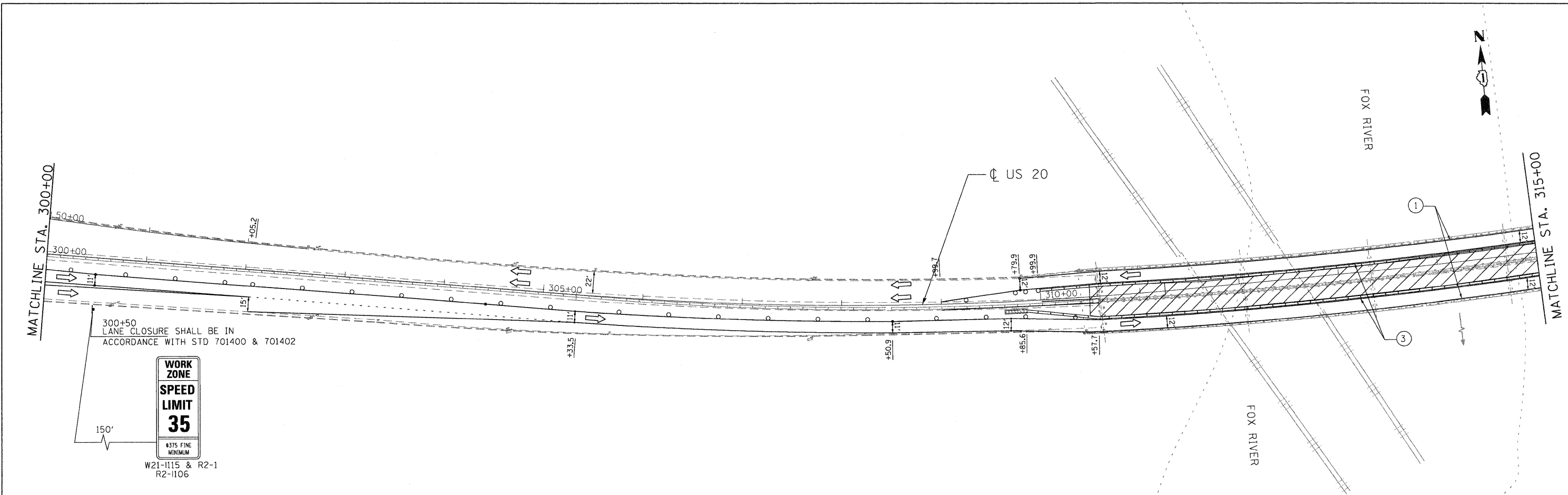
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 (LAKE STREET)
 RANDALL RD TO SHALES PARKWAY**


**SUGGESTED STAGES OF CONSTRUCTION
 AND TRAFFIC CONTROL
 STAGE I**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	62
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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 USER: NAME: M:\Technical Services



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DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE	4/1/2011	REVISED -	

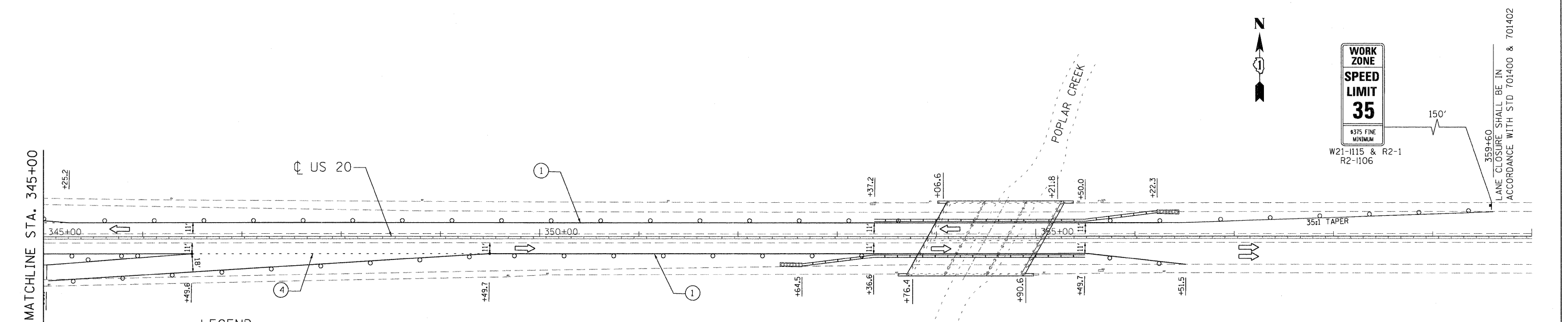
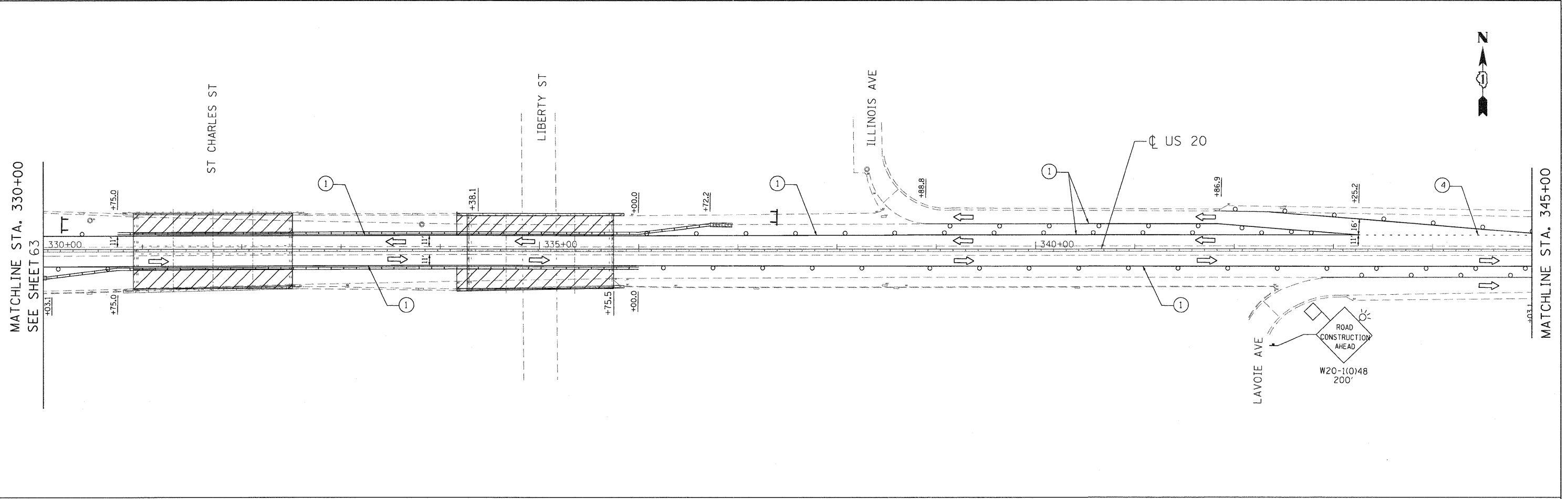
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY
SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
STAGE II

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	63
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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 USER = JIN
 USER NAME = Millennium Professional Services



LEGEND

- TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY (TANGENT) AND 25 FT CENTERS ALONG TAPERS.
- ⊥ TYPE III BARRICADES WITH STEADY BURNING LIGHTS
- ▨ WORK ZONE
- ▤▤▤▤ IMPACT ATTENUATOR
- ① PAVEMENT MARKING TAPE, TYPE III 4", SOLID WHITE LINE (TYP) (70300520)
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- ④ PAVEMENT MARKING TAPE, TYPE III 4", SKIP-DASH WHITE LINE, 6' SKIP, 2' DASH (70300520)

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DRAWN -	CJD	REVISED -	
CHECKED -	TVN	REVISED -	
DATE -	4/1/2011	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

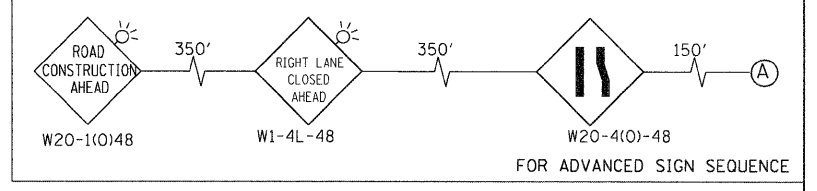
**US ROUTE 20 (LAKE STREET)
 RANDALL RD TO SHALES PARKWAY**

**SUGGESTED STAGES OF CONSTRUCTION
 AND TRAFFIC CONTROL
 STAGE II**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE/COOK	124	64
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

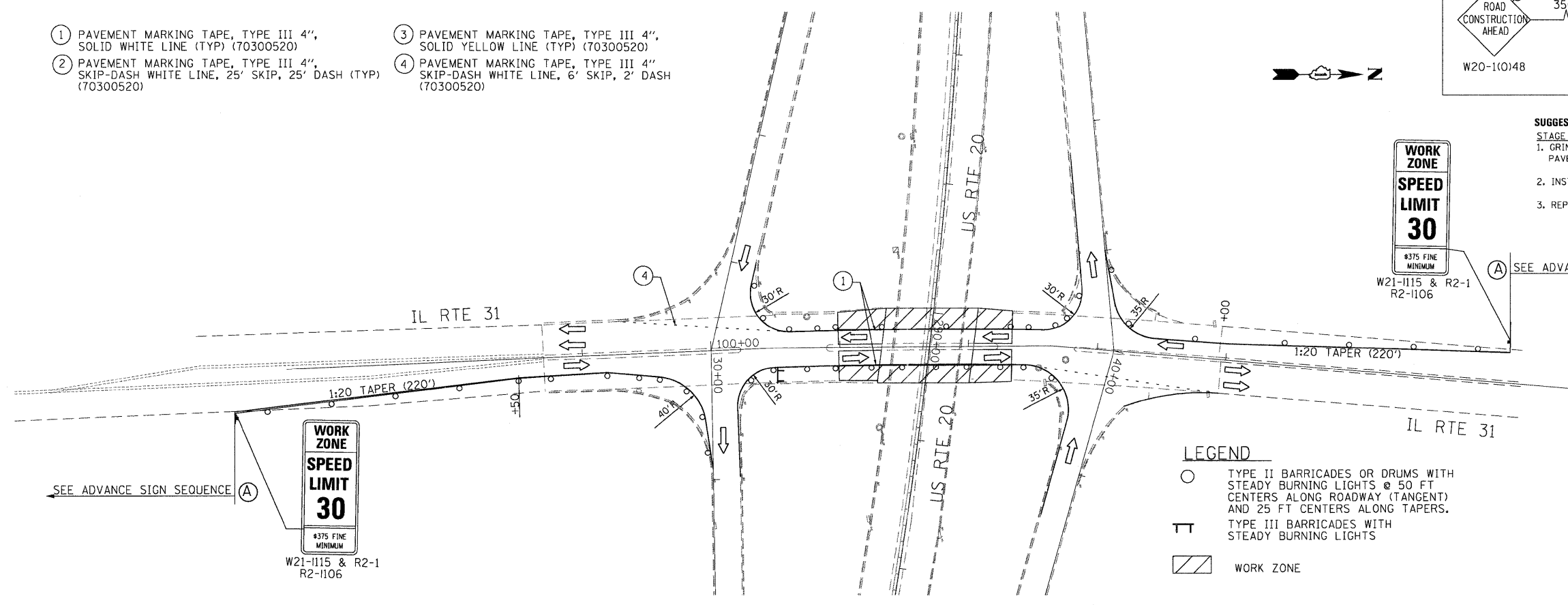
- ① PAVEMENT MARKING TAPE, TYPE III 4", SOLID WHITE LINE (TYP) (70300520)
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- ④ PAVEMENT MARKING TAPE, TYPE III 4", SKIP-DASH WHITE LINE, 6' SKIP, 2' DASH (TYP) (70300520)



- SUGGESTED CONSTRUCTION STAGING**
- STAGE I**
- GRIND OFF EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
 - INSTALL STAGE I TRAFFIC CONTROL
 - REPAIR OF EXISTING DECK SLAB



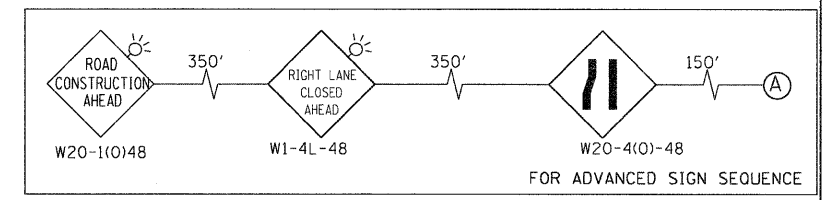
SEE ADVANCE SIGN SEQUENCE



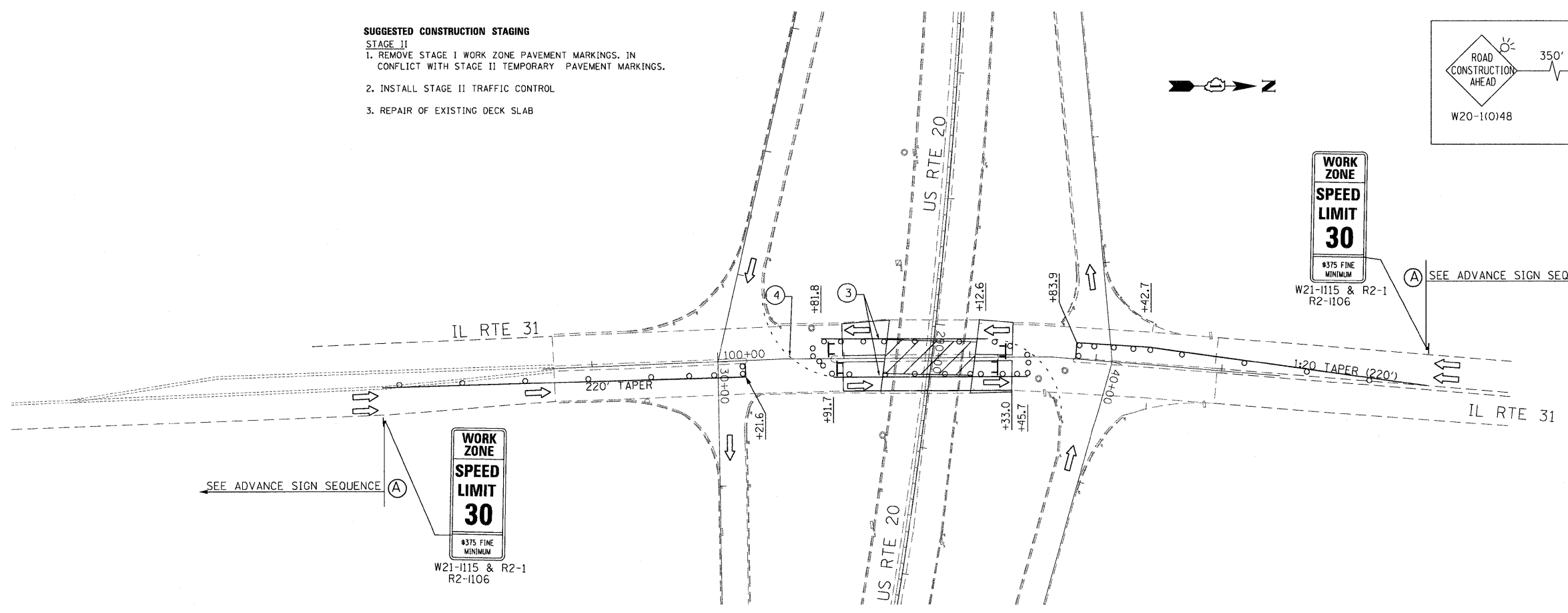
- LEGEND**
- TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY (TANGENT) AND 25 FT CENTERS ALONG TAPERS.
 - ⊥ TYPE III BARRICADES WITH STEADY BURNING LIGHTS
 - ▨ WORK ZONE

STAGE I

- SUGGESTED CONSTRUCTION STAGING**
- STAGE II**
- REMOVE STAGE I WORK ZONE PAVEMENT MARKINGS. IN CONFLICT WITH STAGE II TEMPORARY PAVEMENT MARKINGS.
 - INSTALL STAGE II TRAFFIC CONTROL
 - REPAIR OF EXISTING DECK SLAB



SEE ADVANCE SIGN SEQUENCE



STAGE II

FILE NAME: P:\2009\me091906-ver-ver-phi\ceadd\wo2\us20\shs\160M46-MDT-ST31.dgn
 USER: JRM
 USER NAME: Millennium Professional Services

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CHECKED - TVN	REVISED -
DATE - 4/1/2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

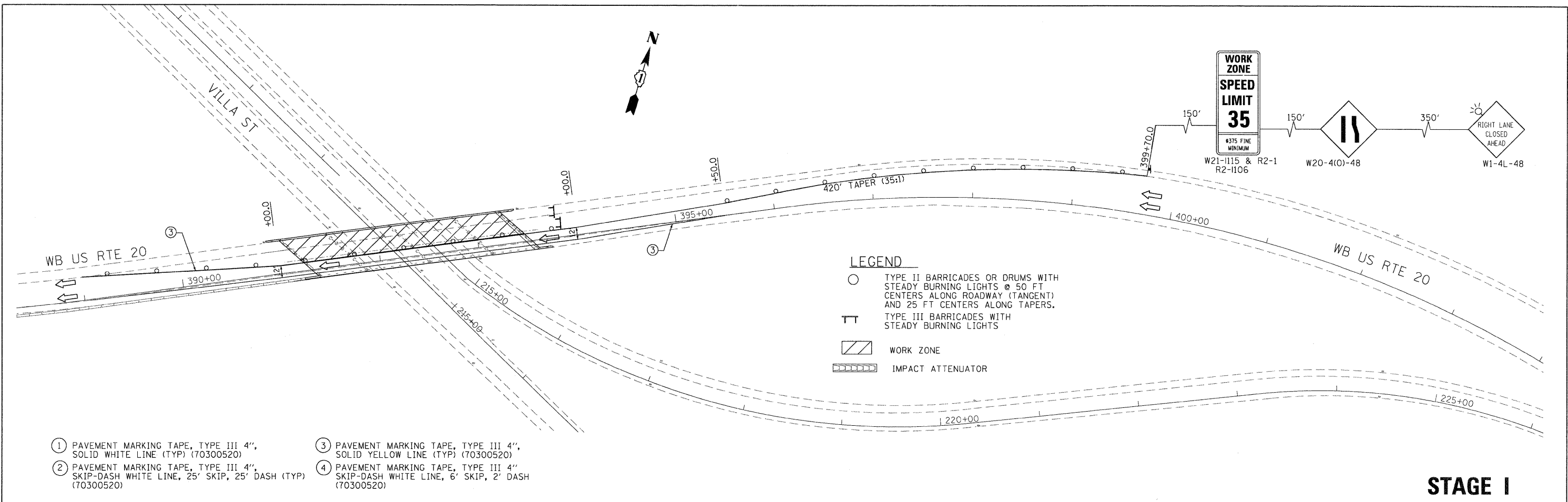
**US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY**

**SUGGESTED STAGES OF CONSTRUCTION
AND TRAFFIC CONTROL
IL RTE 31 OVER US RTE 20**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 345	SECTION BR-1-RS-4	COUNTY KANE/COOK	TOTAL SHEETS 124	SHEET NO. 65
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

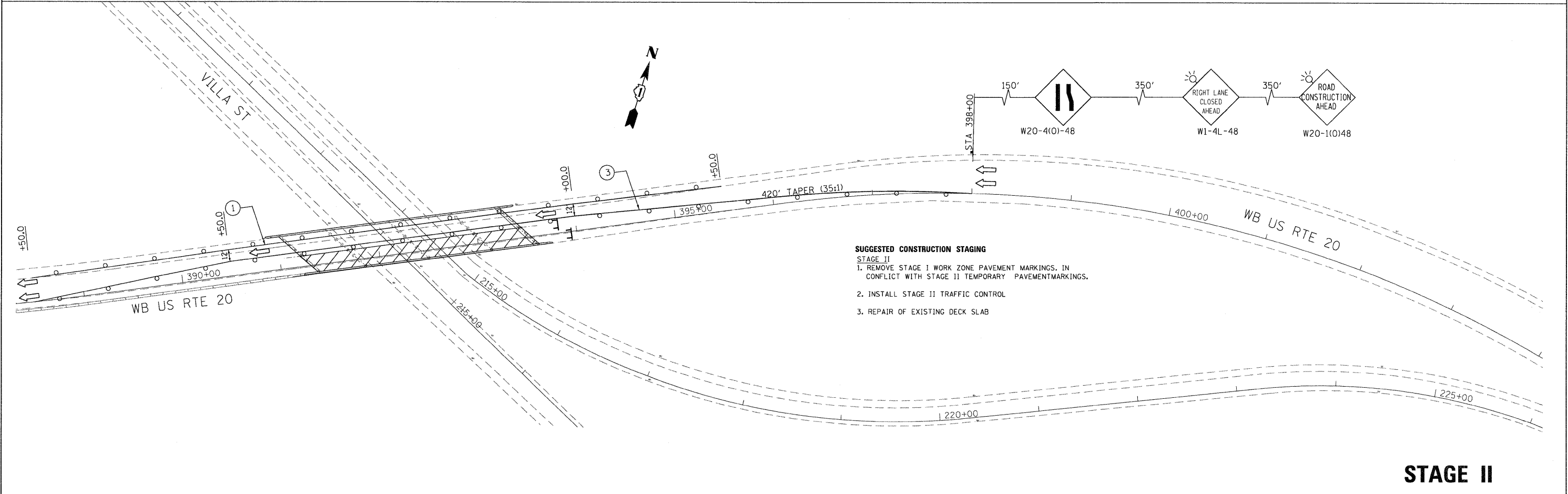
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- ① PAVEMENT MARKING TAPE, TYPE III 4", SOLID WHITE LINE (TYP) (70300520)
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- LEGEND**
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 - ⊥ TYPE III BARRICADES WITH STEADY BURNING LIGHTS
 - ▨ WORK ZONE
 - ▤ IMPACT ATTENUATOR

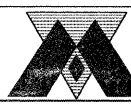
STAGE I



- SUGGESTED CONSTRUCTION STAGING**
- STAGE II**
1. REMOVE STAGE I WORK ZONE PAVEMENT MARKINGS. IN CONFLICT WITH STAGE II TEMPORARY PAVEMENT MARKINGS.
 2. INSTALL STAGE II TRAFFIC CONTROL
 3. REPAIR OF EXISTING DECK SLAB

STAGE II

FILE NAME = P:\2009\m0906\p06\p06\phi1\acadd\wo2\un2\shas\DI08M46-MDT-ST1.dgn
 USER NAME = Millennium Professional Services



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MILLENNIA PROFESSIONAL SERVICES

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CHECKED - TVN	REVISED -
DATE - 4/1/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 (LAKE STREET)
RANDALL RD TO SHALES PARKWAY
SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
WB US RTE 20 OVER BUS. US RTE 20

F.A.P. RTE. 345	SECTION BR-1-RS-4	COUNTY KANE/COOK	TOTAL SHEETS 124	SHEET NO. 66
CONTRACT NO. 60M46				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. OF SHEETS STA. TO STA.

Existing Structure: S.N. 045-0017 built in 1959 as F.A. Route 6, Section 8R-HB-3 at Station 176+58.26. In 1975, wingwall parapets were removed and replaced. In 1987, deck was patched, joints were reconstructed and longitudinal joint was removed. In 2004, sidewalks and bridge rail were removed and replaced and beams were repaired and straightened. Structure consists of a simple span steel WF beam bridge with 70'-10" back-to-back abutments, out-to-out deck width of 70'-0", and closed abutments on spread footings. Stage construction shall be utilized to maintain one lane of traffic in each direction at all times.

SCOPE OF WORK

1. Replace the preformed joint seals at the abutment joints with Silicone Joint Sealer.
2. Repair deck slab.
3. Provide permanent protective shield over traffic lanes.
4. Resurface approaches.

DESIGN STRESSES

FIELD UNITS (New Const.)
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

FIELD UNITS (Existing)
 $f_c = 1,400$ psi (Superstructure)
 $f_c = 1,000$ psi (Substructure)
 $f_s = 20,000$ psi (Reinforcement)
 $f_s = 18,000$ psi (Structural Steel)

LOADING HS 20
 (Original Construction)

INDEX OF SHEETS

1. General Plan and Elevation
2. Stage Construction Details
3. Superstructure Repair
4. Protective Shield Details

DESIGN SPECIFICATIONS

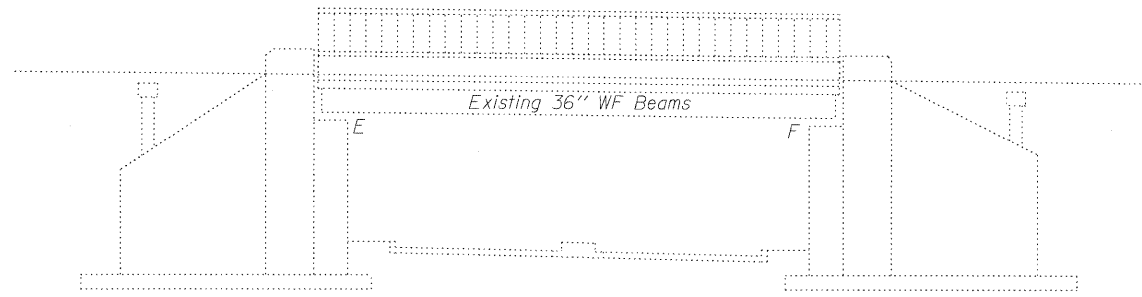
(New Construction)
 2002 AASHTO "Standard Specifications for Highway Bridges"

GENERAL NOTES

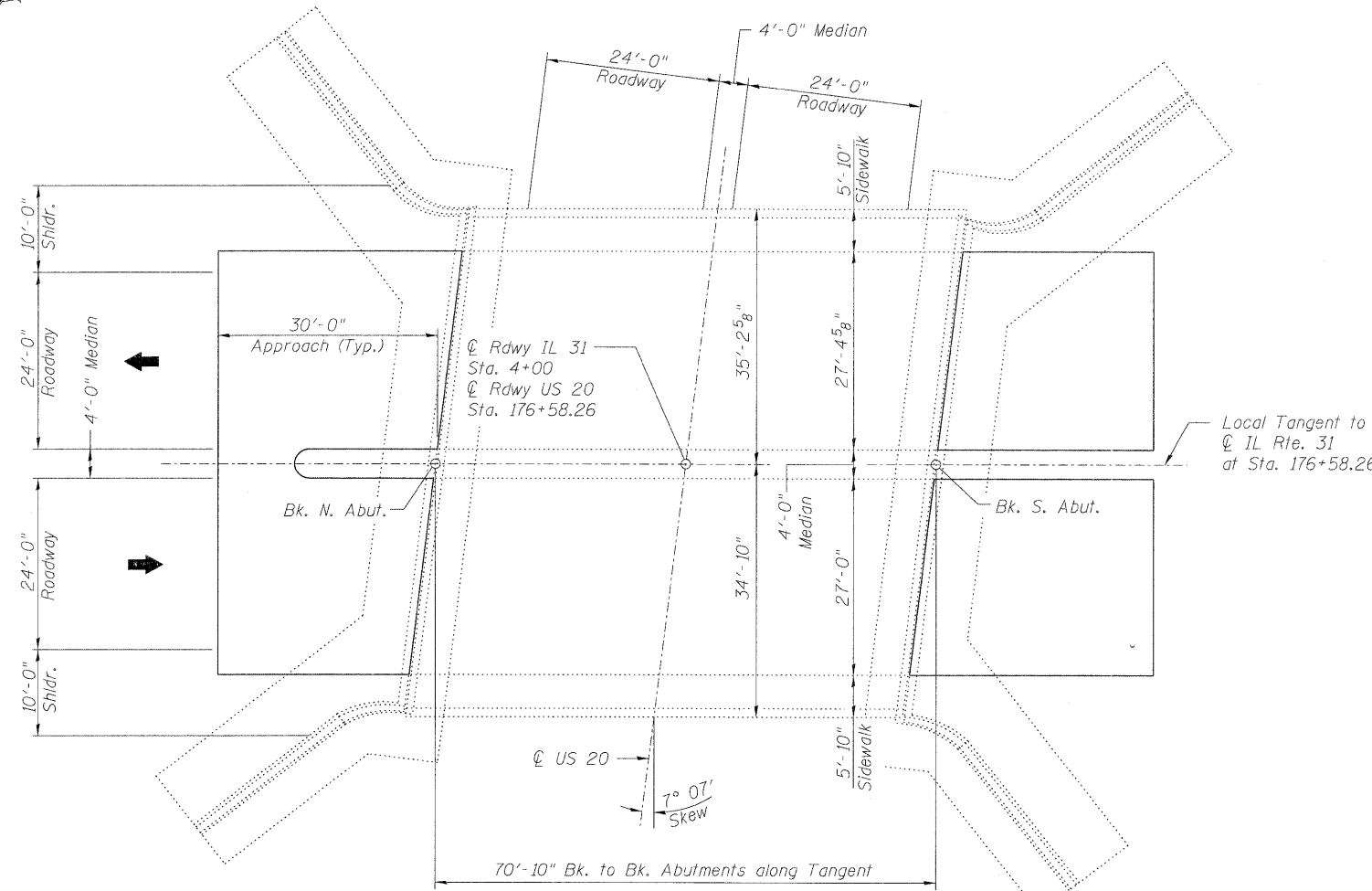
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The protective shield shall not rest upon existing lighting fixtures, conduits or utilities. Any lighting fixtures, conduits or utilities damaged by the Contractor's operation shall be replaced or repaired by the Contractor at their expense.

See Roadway plans for maintenance of traffic details.



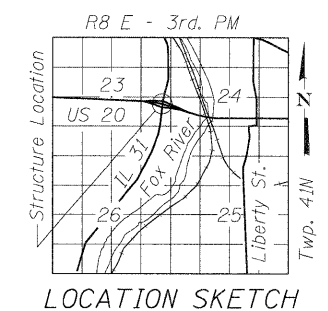
ELEVATION



PLAN

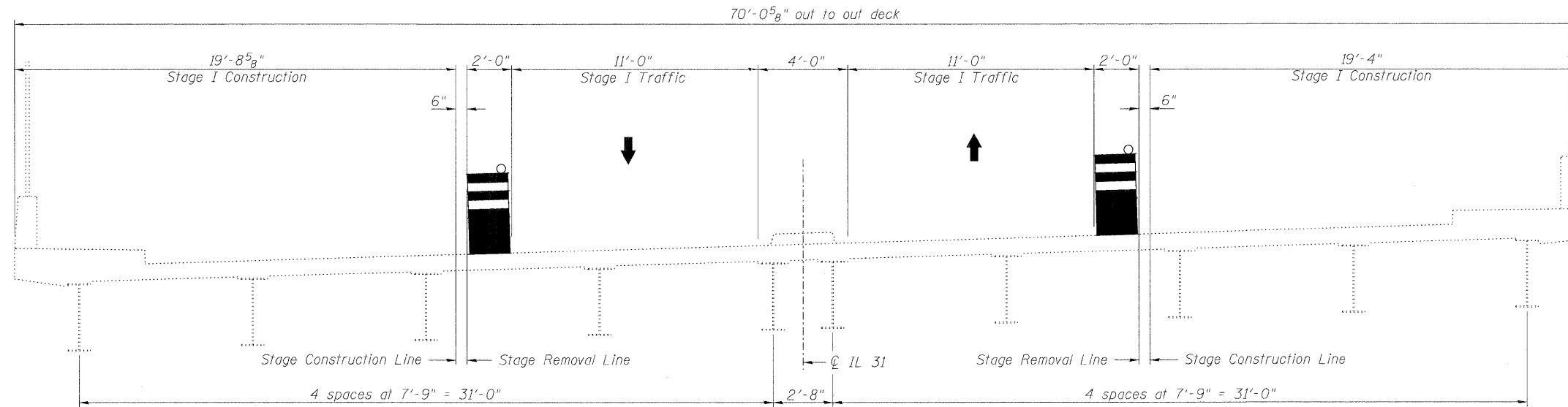
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Bituminous Materials (Prime Coat)	Ton	0.1	-	0.1
Hot-Mix Asphalt Surface Course, Mix "D", N70, 1 1/2"	Ton	31	-	31
Hot-Mix Asphalt Surface Removal, 1 1/2"	Sq. Yd.	368	-	368
Protective Shield (Permanent)	Sq. Yd.	443	-	443
Silicone Joint Sealer, 1 3/4"	Foot	142	-	142
Deck Slab Repair (Partial)	Sq. Yd.	22.9	-	22.9

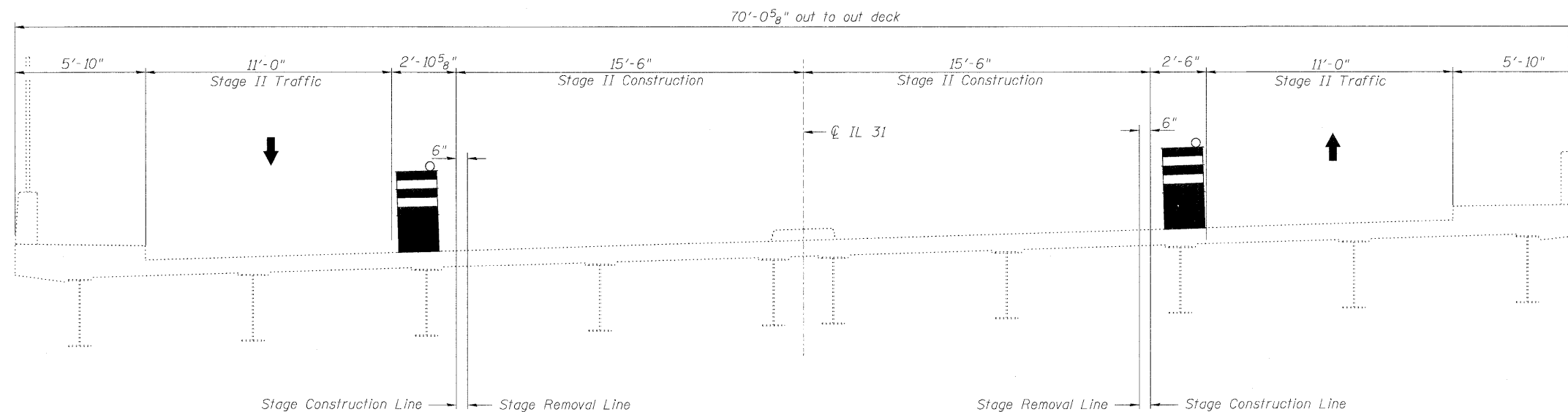


LOCATION SKETCH

GENERAL PLAN AND ELEVATION
IL 31 OVER US 20
FAP RTE 345 - SECTION 8R-1-RS-4
KANE COUNTY
STATION 176+58.26
STRUCTURE NO. 045-0017



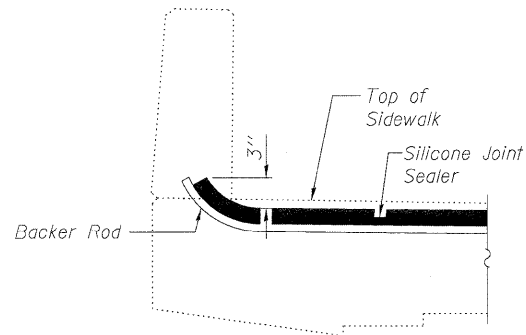
STAGE I REMOVAL & CONSTRUCTION
(Looking South)



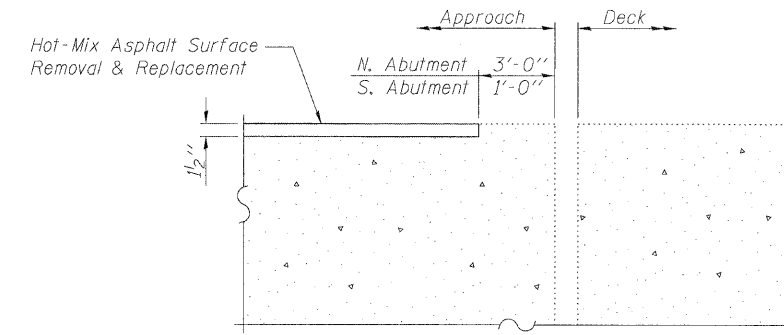
STAGE II REMOVAL & CONSTRUCTION
(Looking South)

USER NAME =	DESIGNED - TBP	REVISED -
FILE NAME =	CHECKED - ADB	REVISED -
PLOT SCALE =	DRAWN - TBP	REVISED -
PLOT DATE =	CHECKED - MTH	REVISED -

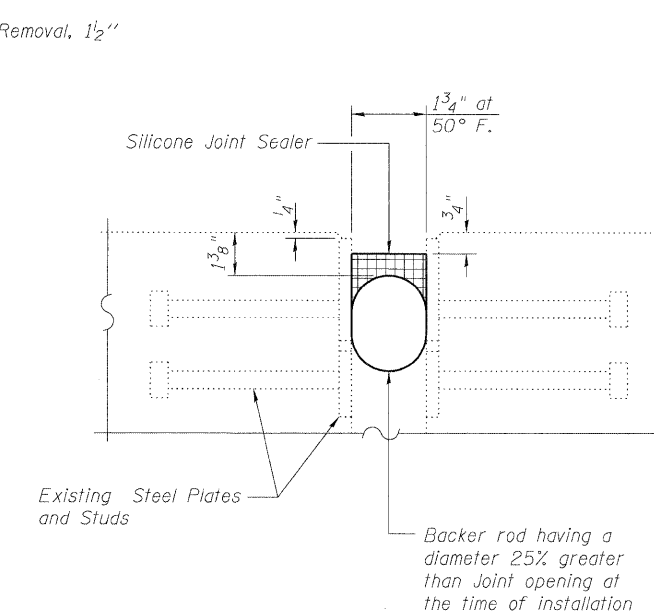
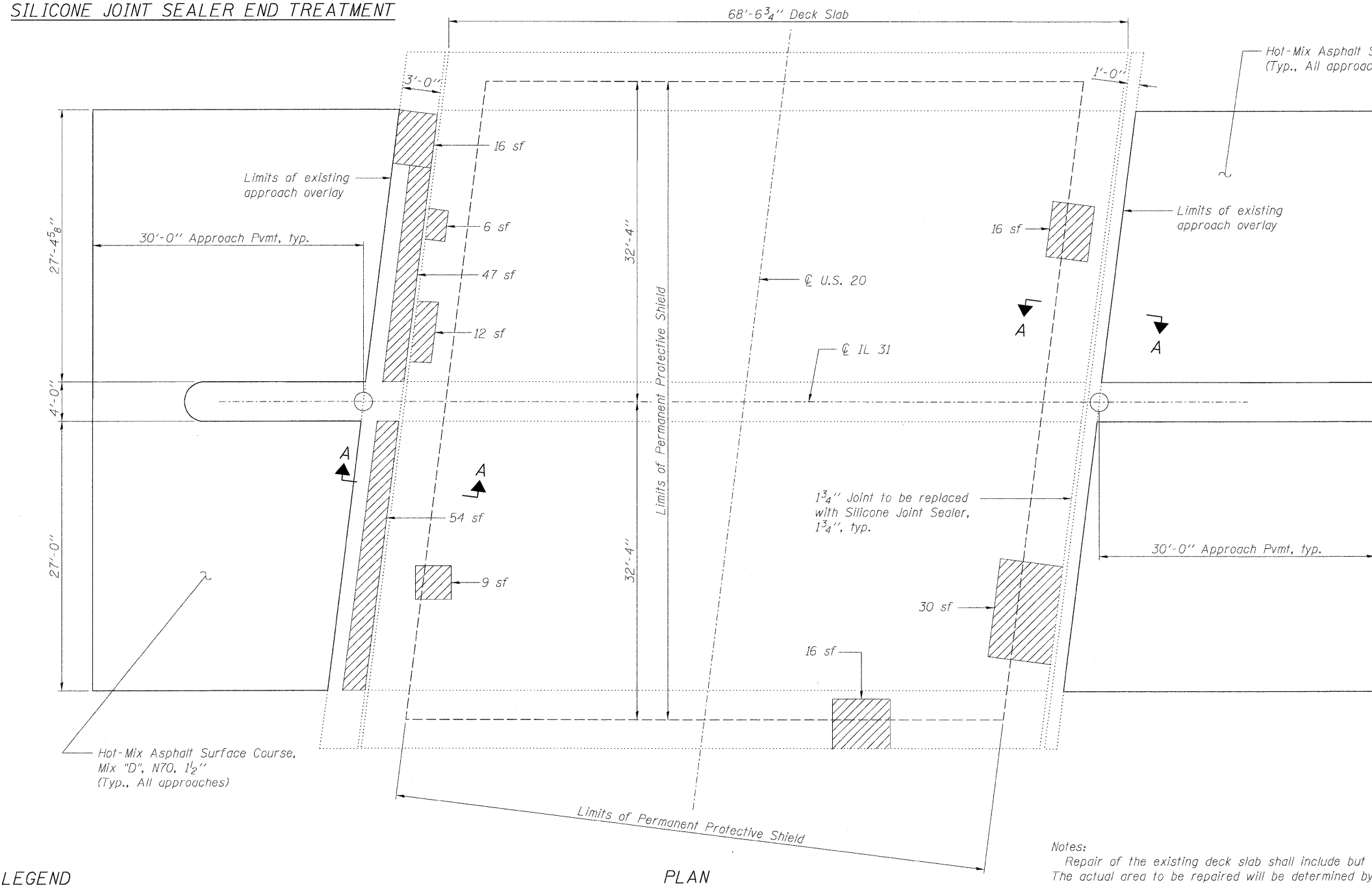
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE	124	70
CONTRACT NO. 60M46			ILLINOIS FED. AID PROJECT	



SILICONE JOINT SEALER END TREATMENT



SECTION A-A



PROPOSED JOINT DETAIL @ ABUTMENTS

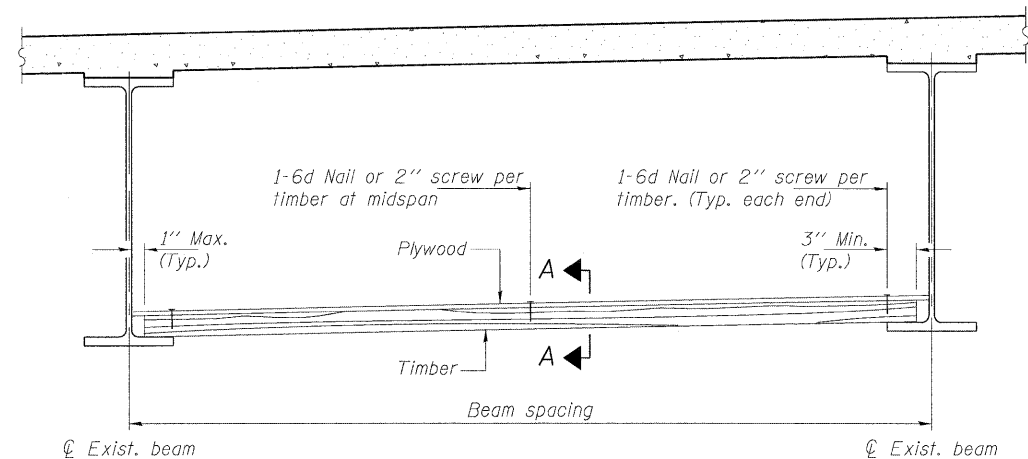
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Bituminous Materials (Prime Coat)	Ton	0.1
Hot-Mix Asphalt Surface Course, Mix "D", N70, 1 ¹ / ₂ "	Ton	31
Hot-Mix Asphalt Surface Removal, 1 ¹ / ₂ "	Sq. Yd.	368
Silicone Joint Sealer, 1 ³ / ₄ "	Foot	142
Deck Slab Repair (Partial)	Sq. Yd.	22.9

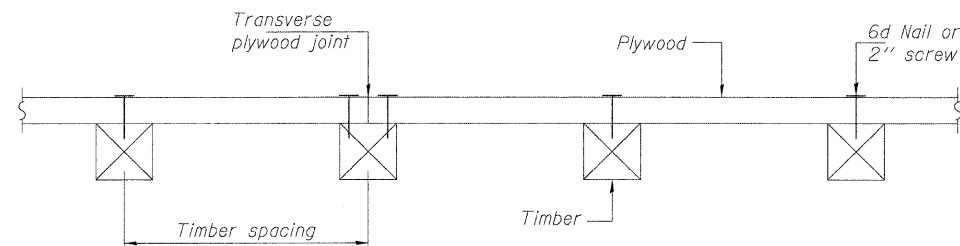
LEGEND

- Deck Slab Repair (Partial)
- sf Square Feet

Notes:
 Repair of the existing deck slab shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction. Cost of concrete overlay removal for deck slab repair is included with the cost of Deck Slab Repair.
 Cost of existing joint removal is included in the cost of Silicone Joint Sealer.
 See sheet 4 of 4 for Permanent Protective Shield details and quantity.



CROSS SECTION



SECTION A-A

TIMBER SPACING

Beam Spacing (ft.)	Timber Sizes (in.)		
	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi
	Maximum Timber Spacing (in.)		
4.5	16	16	16
4.75	16	16	16
5.0	16	16	16
5.25	16	16	16
5.5	16	16	16
5.75	16	16	16
6.0	16	16	16
6.25	12	16	16
6.5	12	16	16
6.75	12	16	16
7.0	8	16	16
7.25	8	16	16
7.5	8	16	16
7.75	8	16	16
8.0	8	12	16
8.25	8	12	16
8.5	6	12	12
8.75	6	12	12
9.0	6	8	12

Notes: See special provision for Permanent Protective Shield System.
 Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.
 The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.
 The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions.
 All timber shall be treated.
 Plywood shall be 5/8" rated Exterior type plywood by APA.
 Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.
 Transverse plywood joints shall be supported by timbers.
 When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.
 Design load = 200 psf.
 The limits of Permanent Protective Shield shall extend from East Fascia beam to West fascia beam transversely. Longitudinally, it shall extend from face to face of guardrail on US 20.

BILL OF MATERIAL

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	443

Existing Structure: S.N. 045-0004 built in 1960 as F.A. Route 6, Section 8R-B at Station 200+22.00. In 1986, the railing was replaced, floor drains installed, expansion joints reconstructed, substructure repaired, deck was patched and overlay was placed. In 2006, expansion joints were reconstructed and substructure was repaired. Structure consists of a five span steel beam bridge with 660'-0" back-to-back abutments along the roadway, 63'-8" out-to-out deck width, two-column piers on spread footing and vaulted abutments. Stage construction shall be utilized to maintain one lane of traffic in each direction at all times.

INDEX OF SHEETS

1. General Plan and Elevation
2. Stage Construction Details
3. Superstructure Repair
4. Substructure Repair
5. Drainage Scupper, DS-11
6. Barrier Wall Repair
7. Protective Shield Details

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The protective shield shall not rest upon existing lighting fixtures, conduits or utilities. Any lighting fixtures, conduits or utilities damaged by the Contractor's operation shall be replaced or repaired by the Contractor at their expense. See Roadway Plans for maintenance of traffic details.

SCOPE OF WORK

1. Repair deck slab.
2. Repair concrete barrier wall between Raymond St. and Fox River.
3. Remove and replace north west abutment vault door.
4. Remove and replace the drainage scupper assembly for the east bound lanes at the east abutment.
5. Provide permanent protective shield in spans over railroads and bike path.
6. Clean the gutter along the east abutment.

DESIGN STRESSES

FIELD UNITS

NEW CONSTRUCTION	EXISTING CONSTRUCTION
$f'_c = 3,500$ psi	$f'_c = 1,400$ psi (Superstructure)
$f_y = 60,000$ psi (Reinforcement)	$f'_c = 800$ psi (Substructure)
$f_y = 36,000$ psi (Structural Steel)	$f_s = 20,000$ psi (Reinforcement)
	$f_s = 18,000$ psi (Structural Steel)

LOADING HS-20

(Original Construction)

DESIGN SPECIFICATIONS

(New Construction)
2002 AASHTO "Standard Specifications for Highway Bridges"

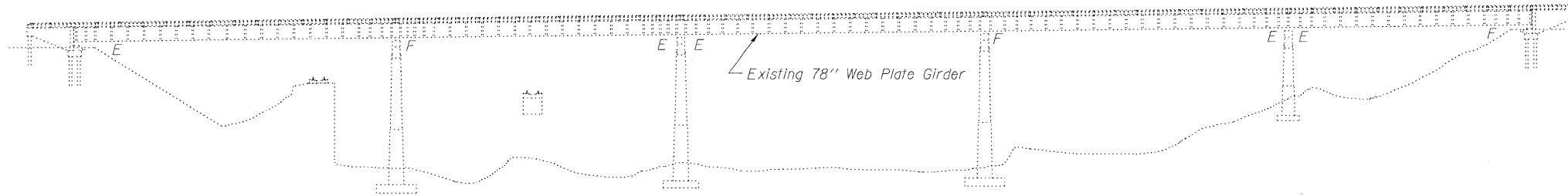


Michael J. Haley

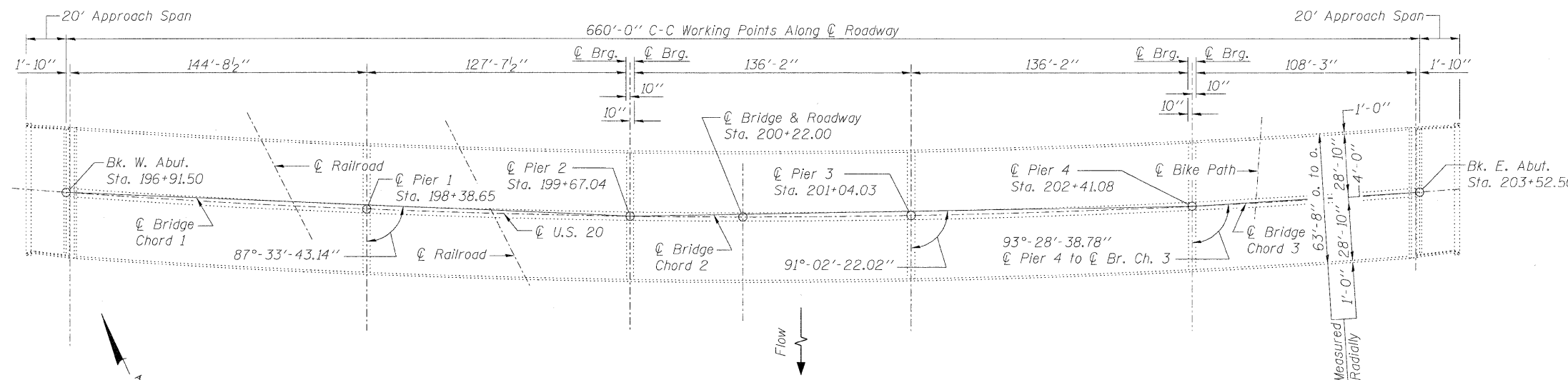
3-24-2011

Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2012

Date



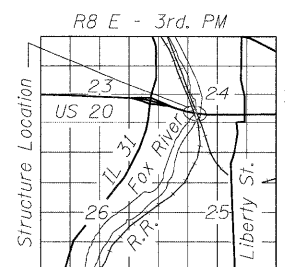
ELEVATION



PLAN

TOTAL BILL OF MATERIAL

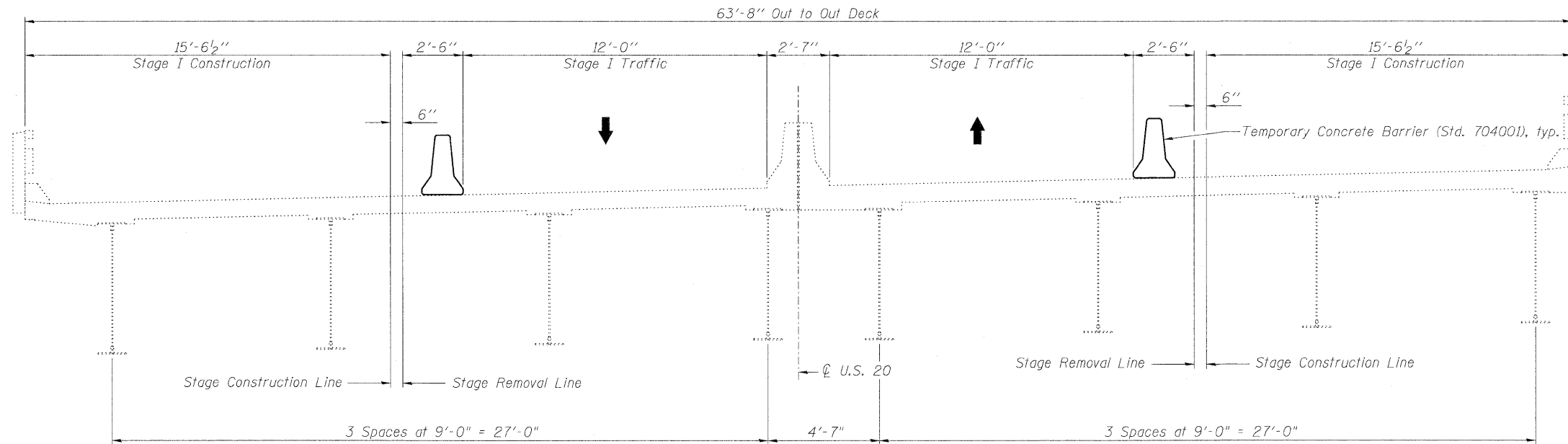
ITEM	UNIT	SUPER	SUB	TOTAL
Protective Shield (Permanent)	Sq. Yd.	468	-	468
Gutters To Be Cleaned	Foot	-	70	70
Drainage Scuppers, DS-11	Each	1	-	1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	25.1	-	25.1
Deck Slab Repair (Partial)	Sq. Yd.	246.9	-	246.9
Structural Repair of Concrete (Depth greater than 5 in.)	Sq. Ft.	73	-	73
Structural Repair of Concrete (Depth equal to or less than 5 in.)	Sq. Ft.	10	-	10
Furnish and Install Access Door	Each	-	1	1



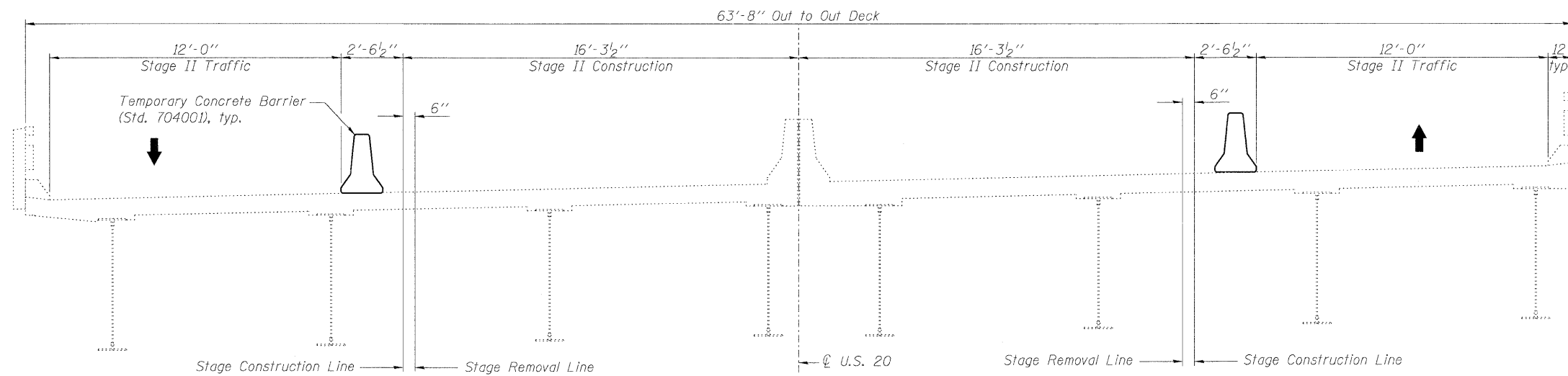
LOCATION SKETCH

Railroad Protective Liability Insurance is required. See Special Provisions

**GENERAL PLAN AND ELEVATION
US 20 BY-PASS OVER FOX RIVER
FAP RTE 345 - SECTION 8R-1-RS-4
KANE COUNTY
STATION 200+22.00
STRUCTURE NO. 045-0004**



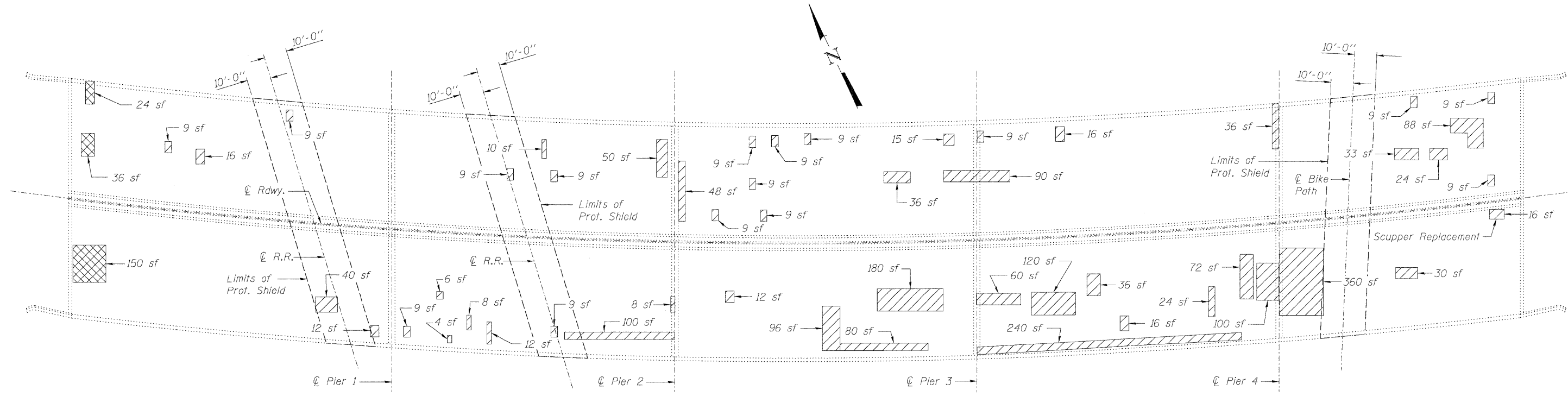
STAGE I CONSTRUCTION & REMOVAL
(Looking East)



STAGE II CONSTRUCTION & REMOVAL
(Looking East)

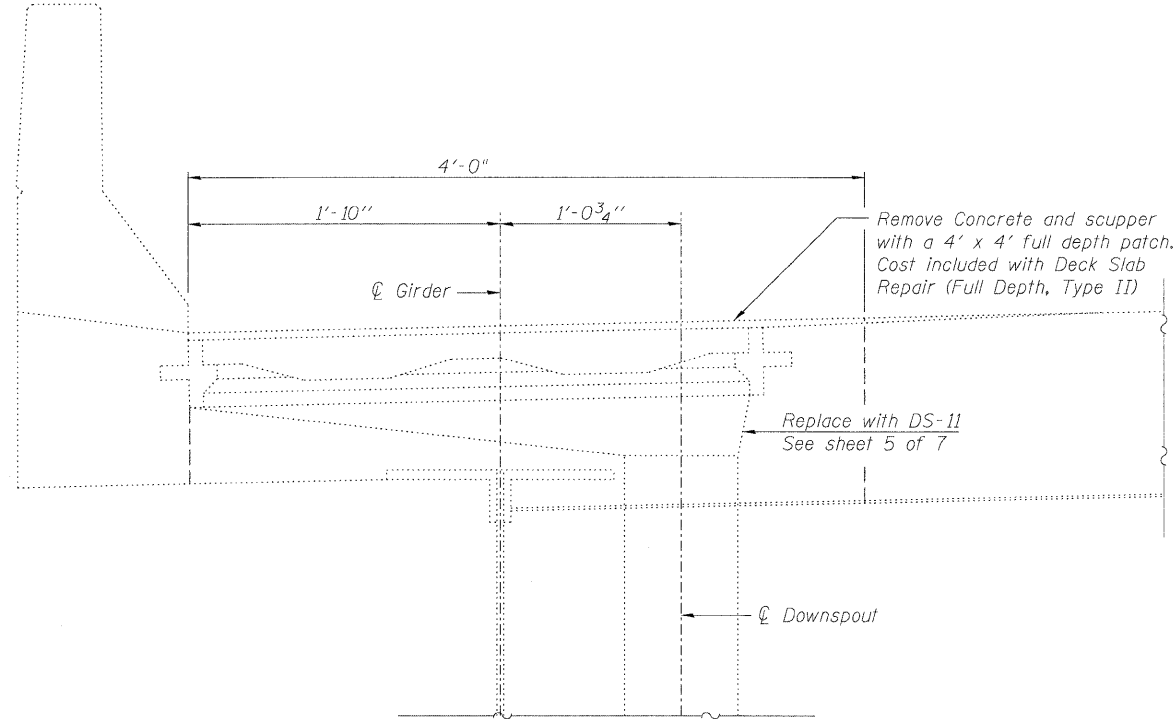
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PLOT DATE =	CHECKED - MTH	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE	124	74
CONTRACT NO. 60M46				
ILLINOIS FED. AID PROJECT				

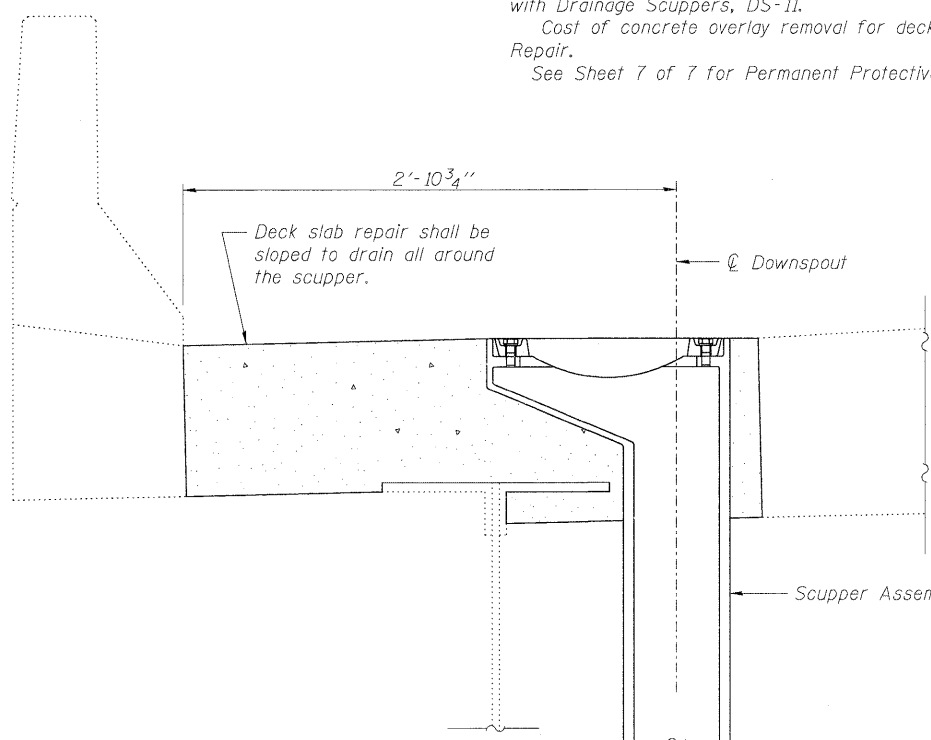


PLAN

Notes:
 Repair of the existing deck slab shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.
 Cost of removal of entire existing scupper assembly and surrounding concrete including Concrete Superstructure replacement is included with Drainage Scuppers, DS-11.
 Existing reinforcement shall be cleaned and incorporated into new construction. Cost included with Drainage Scuppers, DS-11.
 Cost of concrete overlay removal for deck slab repair is included with the cost of Deck Slab Repair.
 See Sheet 7 of 7 for Permanent Protective Shield Details.



EXISTING



PROPOSED

* Due to the long length of the downspout, the Contractor shall add a new bracket near the bottom of the downspout that is to be mechanically attached to the girder. Remove the existing weld and grind smooth. Add a 45° bend near the bottom of downspout to direct the flow into the gutter at the abutment.

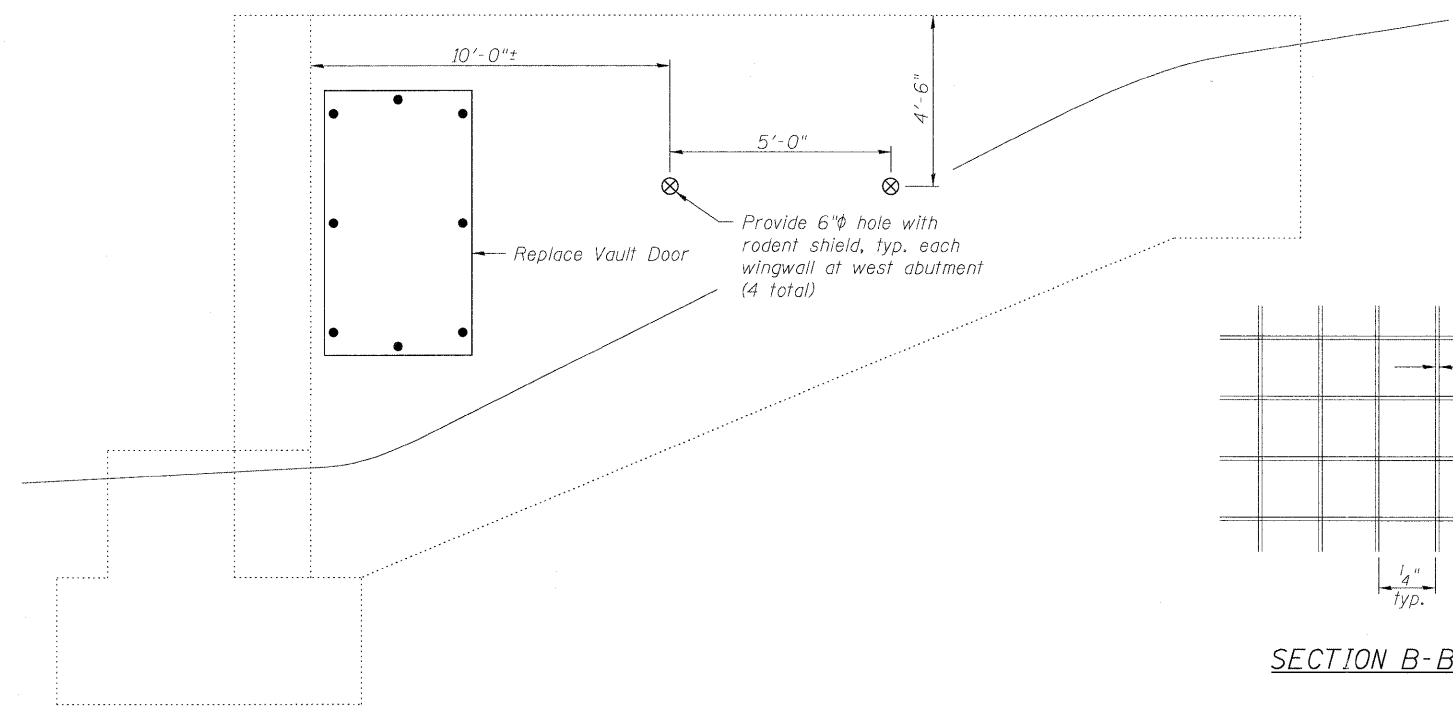
LEGEND

- Deck Slab Repair (Full Depth, Type II)
- Deck Slab Repair (Partial)
- sf Square Feet

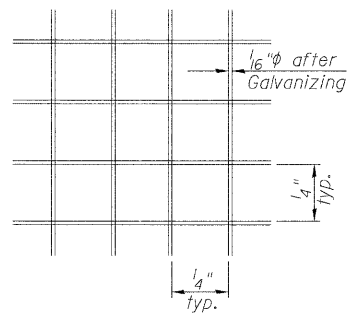
SCUPPER REPLACEMENT

BILL OF MATERIAL

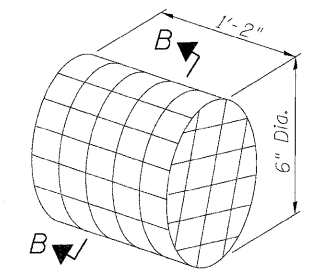
ITEM	UNIT	TOTAL
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	25.1
Deck Slab Repair (Partial)	Sq. Yd.	246.9



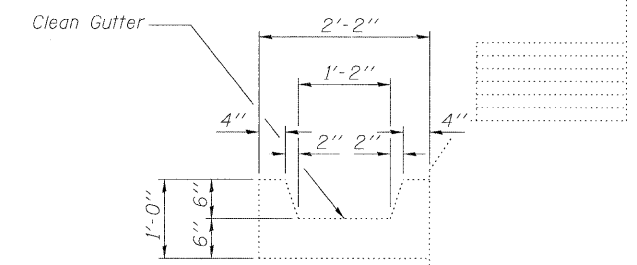
VAULT DOOR AT NORTH SIDE OF WEST ABUTMENT



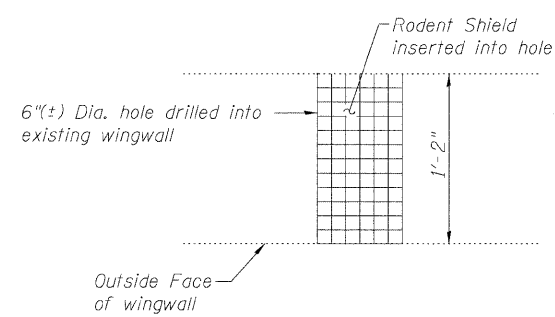
SECTION B-B



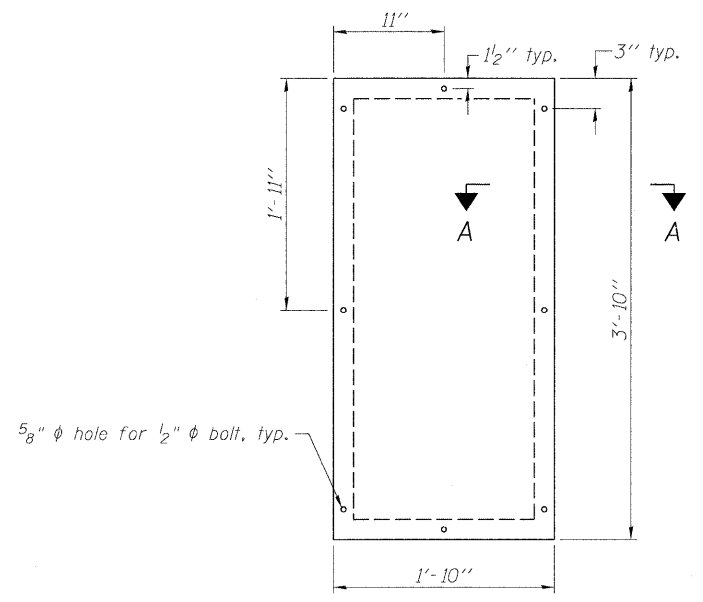
DETAIL OF RODENT SHIELD
(4 required)



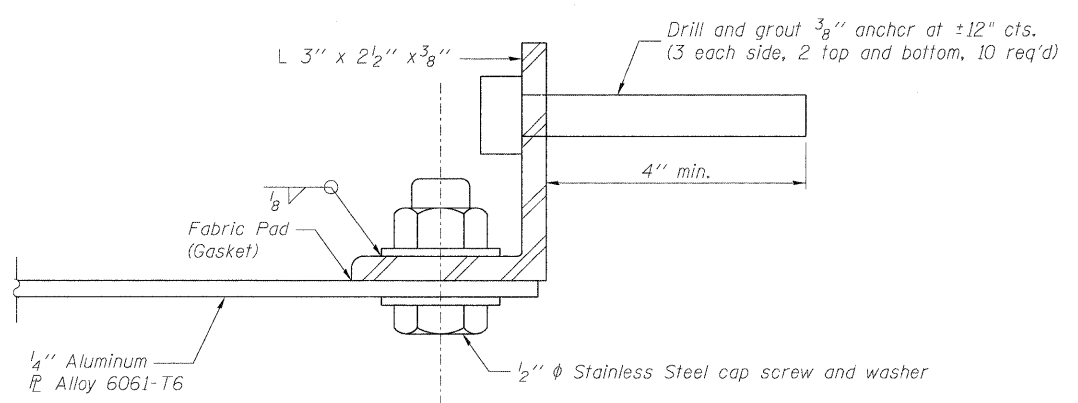
GUTTER AT EAST ABUTMENT



RODENT SHIELD PLACEMENT



DOOR ELEVATION
(North Side of West Abutment)

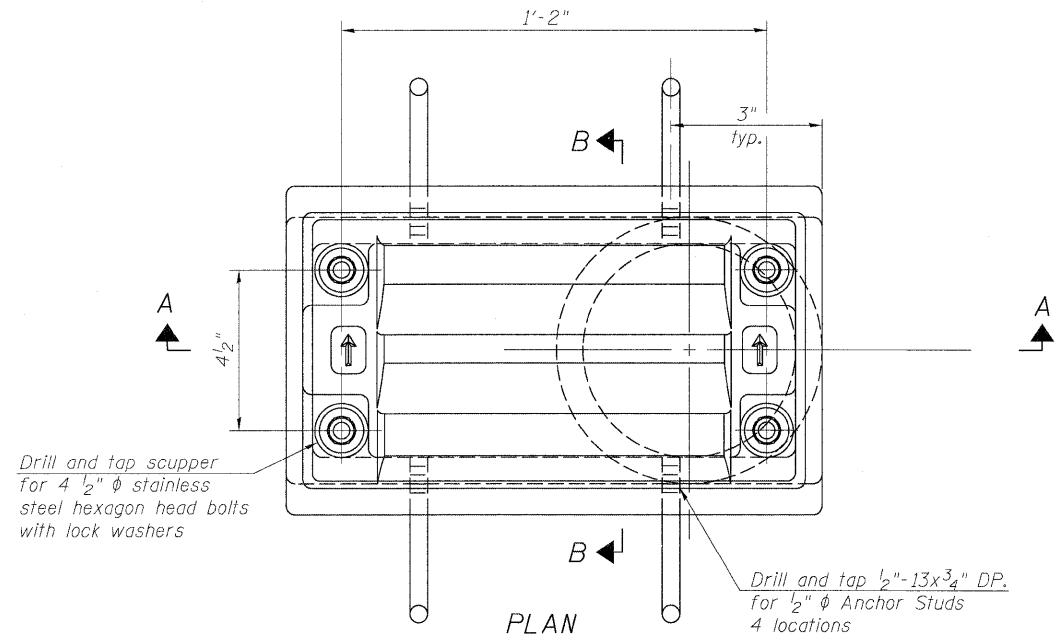


SECTION A-A

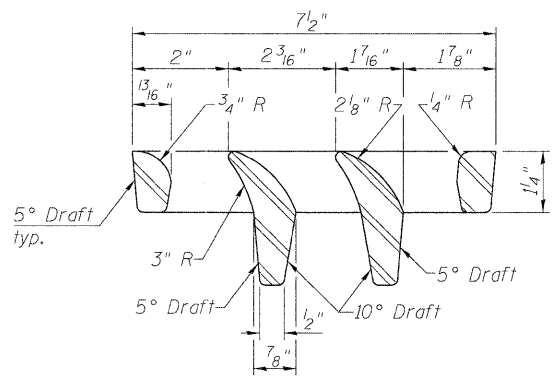
Note: Cost of new door and all components including removal of existing door is included in cost of Furnish and Install Access Door.
Cost of drilling holes and rodent shield included with Furnish and Install Access Door.

BILL OF MATERIAL

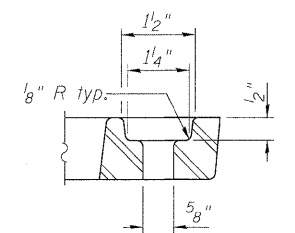
ITEM	UNIT	TOTAL
Gutters To Be Cleaned	Foot	70
Furnish and Install Access Door	Each	1



PLAN

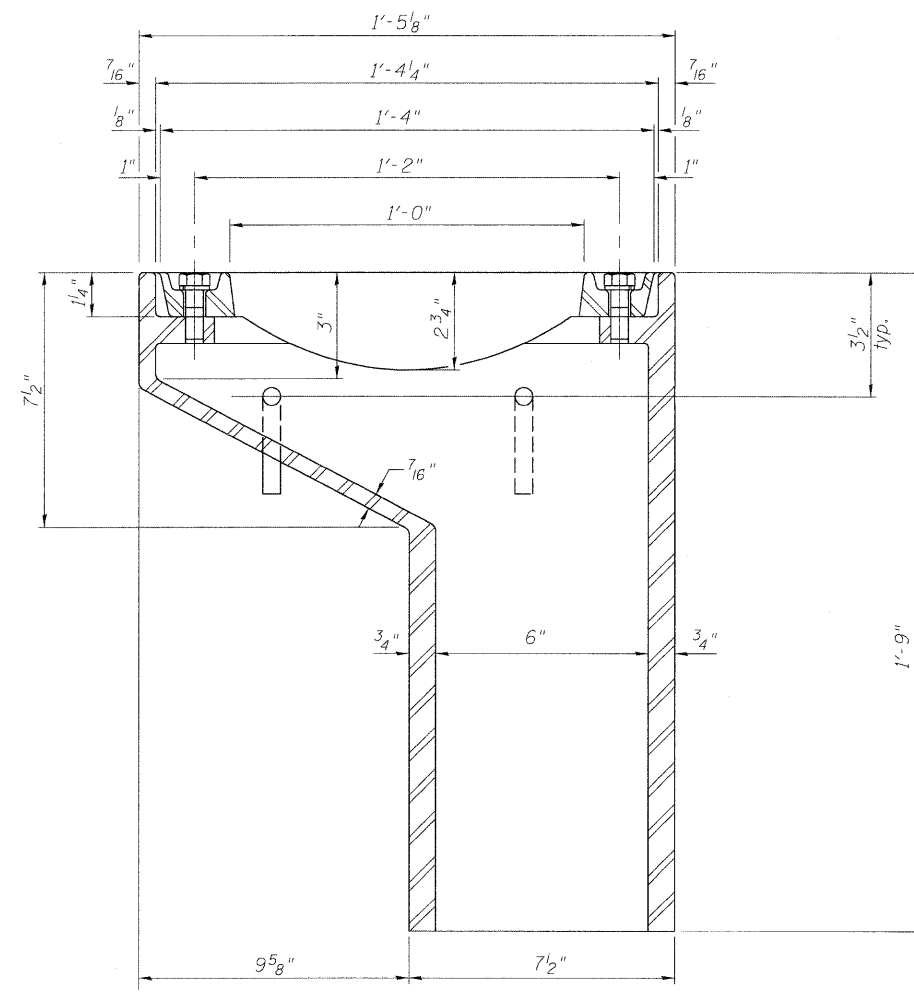


VANE GRATE DETAIL



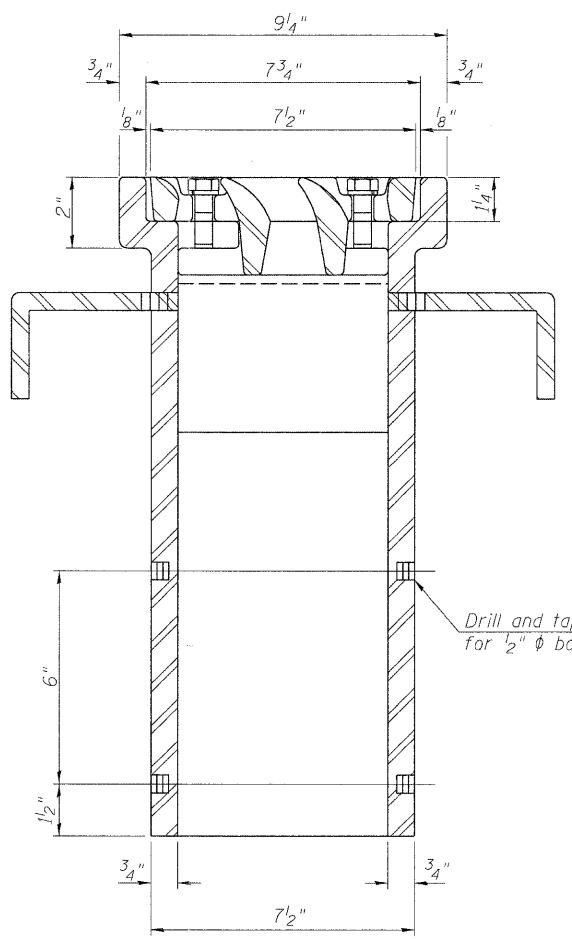
BOLT HOLE DETAIL

Notes:
All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M11.
The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.
Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



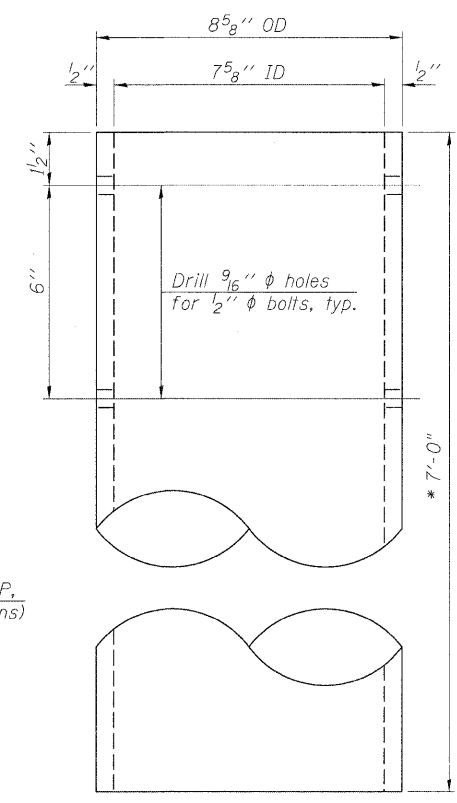
SECTION A-A

See sheet 3 of 7 for scupper location relative to parapet.

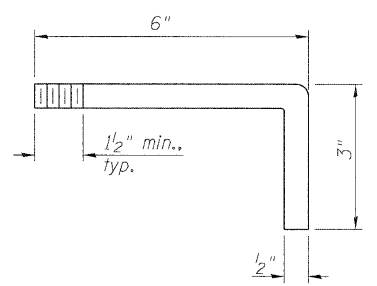


SECTION B-B

Drill and tap 1/2"-13x1/2" DP. for 1/2" φ bolts. (4 locations)



DOWNSPOUT



ANCHOR STUD DETAIL

* Contractor shall field verify this dimension prior to ordering materials.

See sheet 3 of 7 for additional scupper notes and details.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers, DS-11	Each	1

DS-11

7-1-10

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois

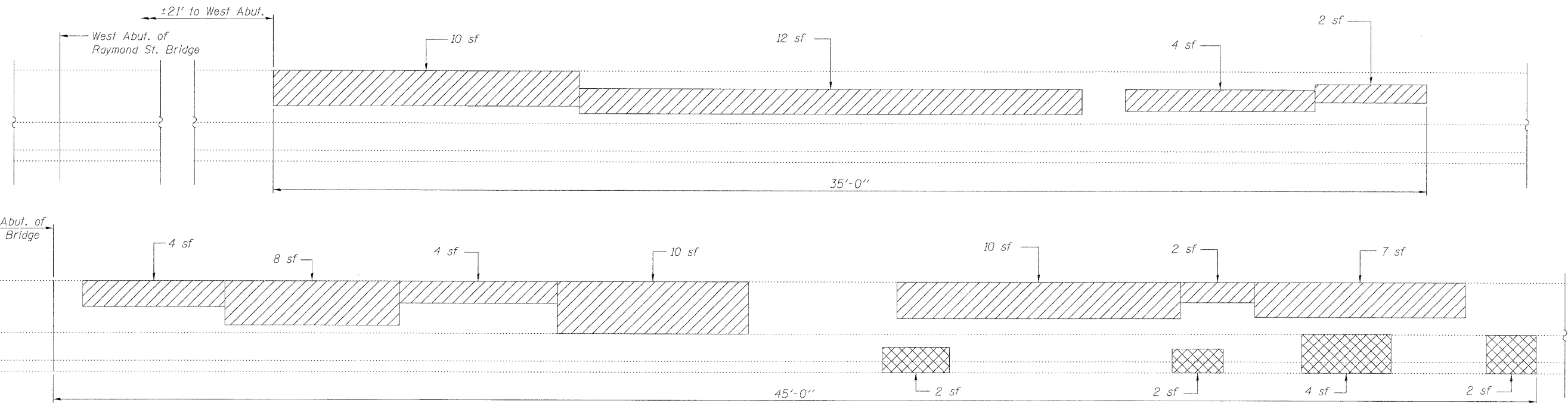
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PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-11
STRUCTURE NO. 045-0004

SHEET NO. 5 OF 7 SHEETS

F.A.P. RTE. 345	SECTION BR-1-RS-4	COUNTY KANE	TOTAL SHEETS 124	SHEET NO. 77
				CONTRACT NO. 60M46
ILLINOIS FED. AID PROJECT				



ELEVATION MEDIAN BARRIER
(Looking South)

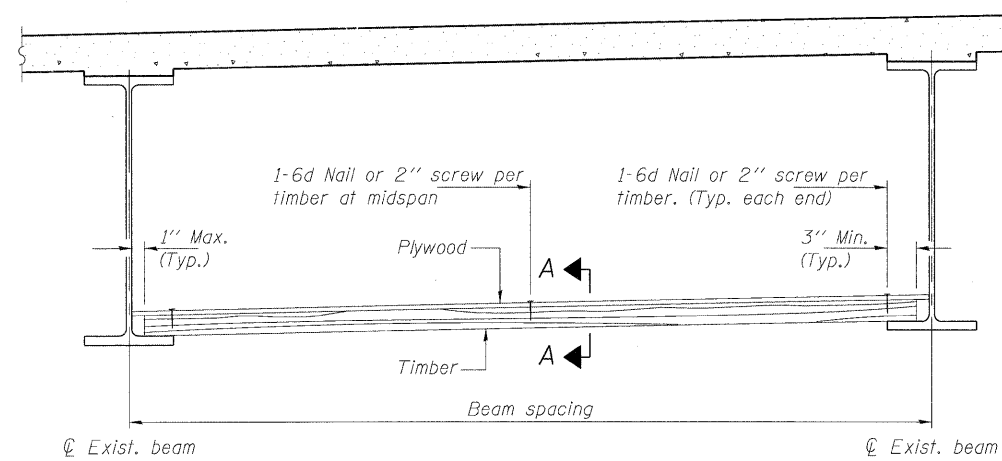
Note:
Repair of the existing barrier shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.

BILL OF MATERIAL

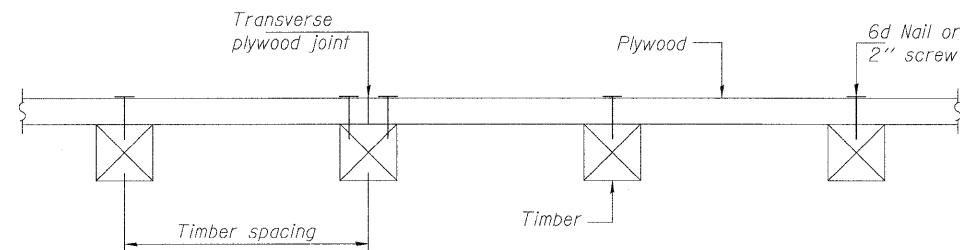
Item	Unit	Total
Structural Repair of Concrete (Depth greater than 5 in.)	Sq. Ft.	73
Structural Repair of Concrete (Depth equal to or less than 5 in.)	Sq. Ft.	10

LEGEND

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



CROSS SECTION



SECTION A-A

TIMBER SPACING

Beam Spacing (ft.)	Timber Sizes (in.)		
	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi
	Maximum Timber Spacing (in.)		
4.5	16	16	16
4.75	16	16	16
5.0	16	16	16
5.25	16	16	16
5.5	16	16	16
5.75	16	16	16
6.0	16	16	16
6.25	12	16	16
6.5	12	16	16
6.75	12	16	16
7.0	8	16	16
7.25	8	16	16
7.5	8	16	16
7.75	8	16	16
8.0	8	12	16
8.25	8	12	16
8.5	6	12	12
8.75	6	12	12
9.0	6	8	12

Notes: See special provision for Permanent Protective Shield System.
 Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.
 The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.
 The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions.
 All timber shall be treated.
 Plywood shall be 5/8" rated Exterior type plywood by APA.
 Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.
 Transverse plywood joints shall be supported by timbers.
 When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.
 Design load = 200 psf.
 The limits of Permanent Protective Shield shall be from North Fascia beam to South fascia beam transversely. Longitudinally, it shall extend at least 10 feet from the centerline of the railroad tracks and bike path as shown on sheet 3 of 7. Permanent Protective Shield shall be installed prior to deck slab repairs.

BILL OF MATERIAL

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	468

Existing Structure: S.N. 045-0005 built in 1960 as F.A. Route 6, Section 8R-HB4 at Station 207+52.06. In 1986, bridge was widened, expansion joints reconstructed, bearings replaced and substructure was rehabilitated and widened. In 2001, deck was patched and overlay was placed. Structure consists of a three span steel WF beam bridge with 139'-0" back-to-back abutments, varying out-to-out deck width from 78'-6³/₄" to 87'-8", multi-column piers and spill thru abutments supported on spread footings. Stage construction shall be utilized to maintain one lane of traffic in each direction at all times.

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

See Roadway Plans for maintenance at traffic details.

SCOPE OF WORK

1. Replace the preformed joint seals at the abutments with Silicone Joint Sealer.
2. Repair deck slab.
3. Repair substructure utilizing temporary shoring and cribbing.

DESIGN STRESSES

FIELD UNITS

NEW CONSTRUCTION	EXISTING CONSTRUCTION
$f'c = 3,500 \text{ psi}$	$f'c = 1,400 \text{ psi}$
$f_y = 60,000 \text{ psi (Reinforcement)}$	$f_s = 24,000 \text{ psi (Reinforcement)}$
	$f_s = 18,000 \text{ psi (Structural Steel)}$

INDEX OF SHEETS

1. General Plan and Elevation
2. Stage Construction Details
3. Superstructure Repair
4. Substructure Repair

LOADING HS-20

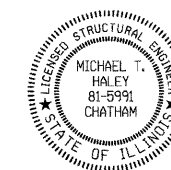
(Original Construction)

DESIGN SPECIFICATIONS

(New Construction)
2002 AASHTO "Standard Specifications for Highway Bridges"

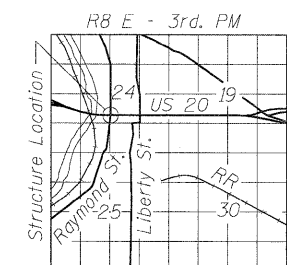
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Silicone Joint Sealer, 1 ³ / ₄ "	Foot	87	-	87
Silicone Joint Sealer, 2 ³ / ₄ "	Foot	78	-	78
Floor Drains to be Cleaned	Each	8	-	8
Structural Repair of Concrete (Depth equal to or less than 5 in.)	Sq. Ft.	-	27	27
Deck Slab Repair (Partial)	Sq. Yd.	21.7	-	21.7
Temporary Shoring and Cribbing	Each	-	1	1
Protective Shield	Sq. Yd.	600	-	600

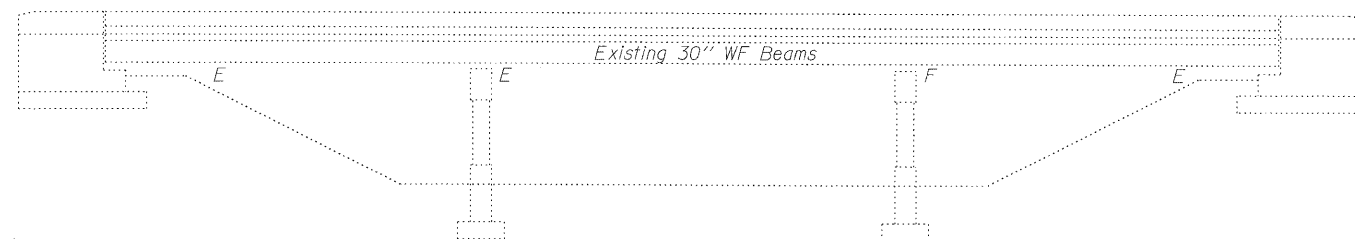


Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2012

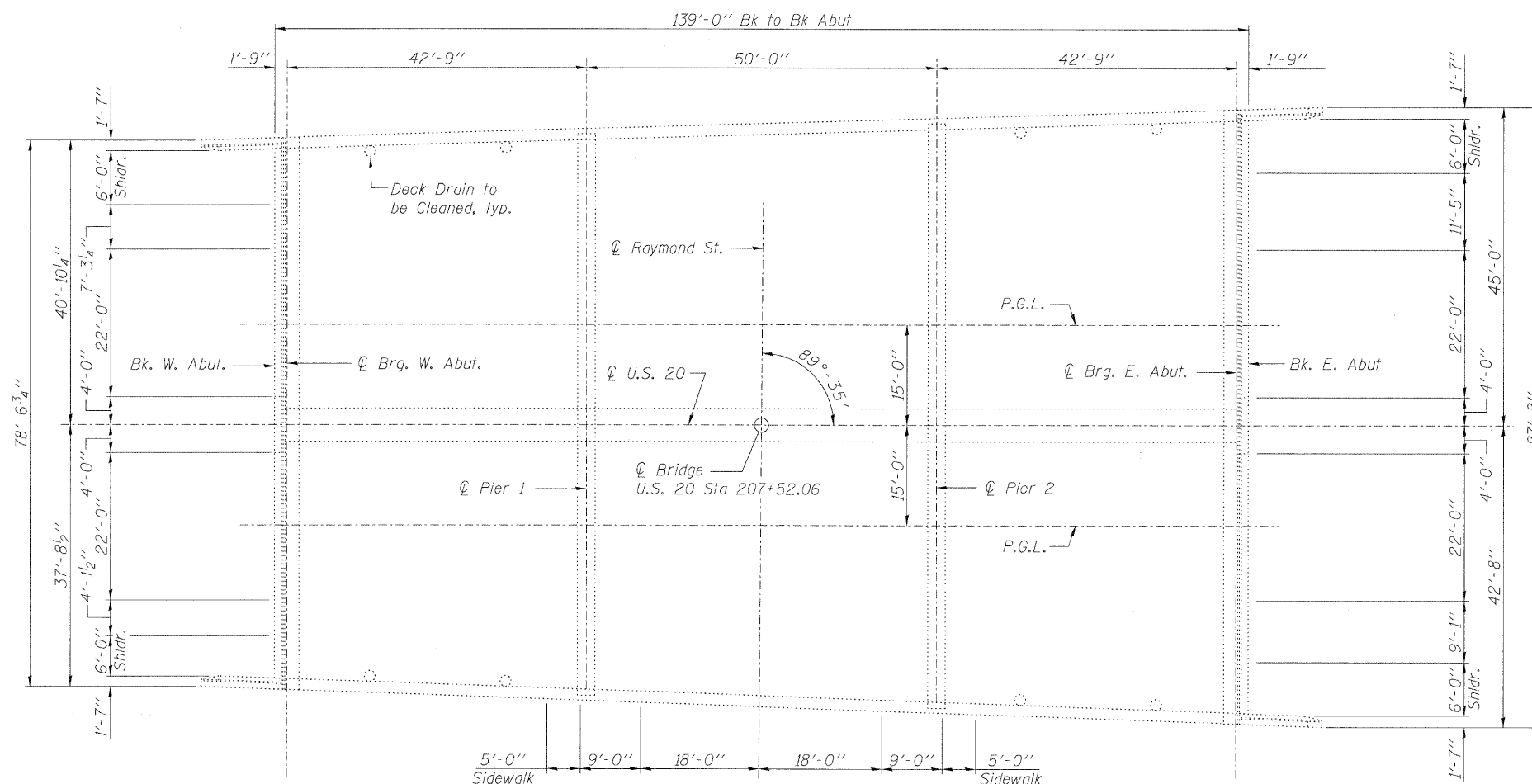
3-24-2011
Date



LOCATION SKETCH



ELEVATION



PLAN

GENERAL PLAN AND ELEVATION
US 20 OVER RAYMOND STREET
FAP RTE 345 - SECTION 8R-1-RS-4
KANE COUNTY
STATION 207+52.06
STRUCTURE NO. 045-0005



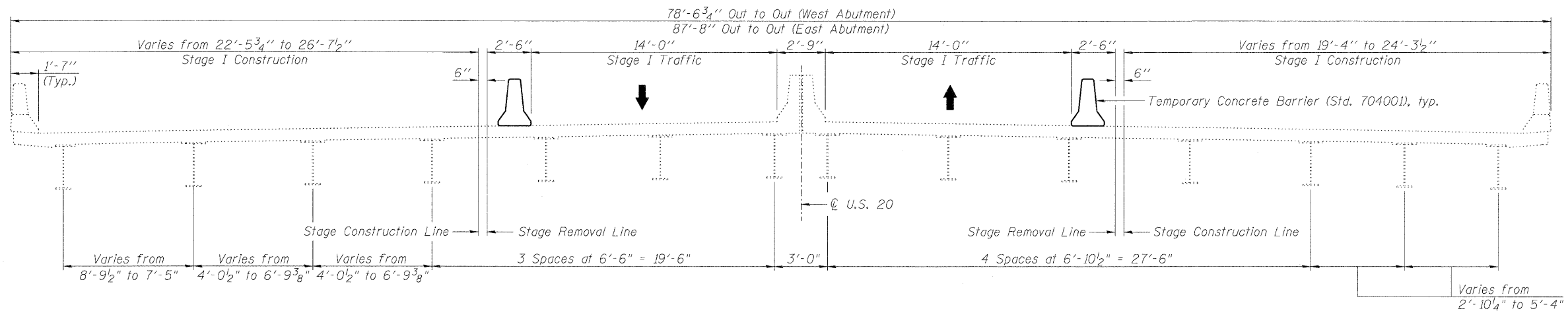
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PLOT DATE =	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 045-0005

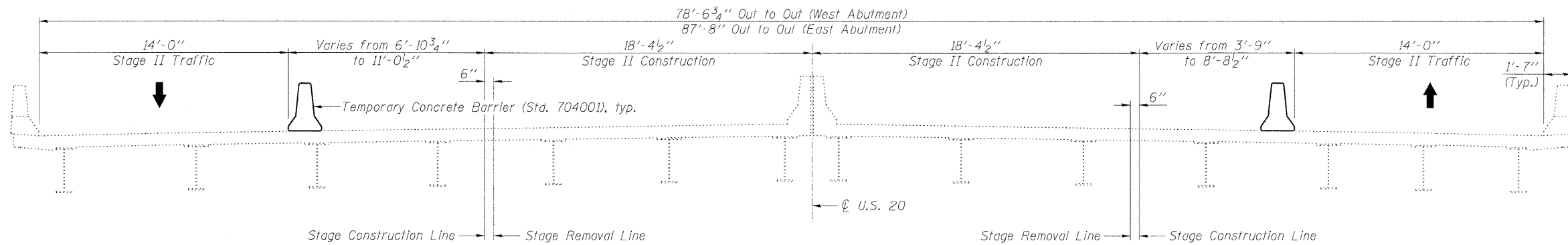
SHEET NO. 1 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	8R-1-RS-4	KANE	124	80
CONTRACT NO. 60M46			ILLINOIS FED. AID PROJECT	



STAGE I REMOVAL & CONSTRUCTION

(Looking East)



STAGE II REMOVAL & CONSTRUCTION

(Looking East)



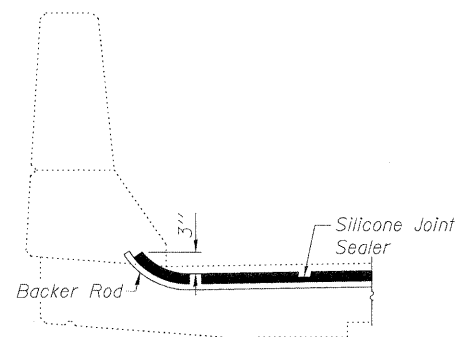
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PLOT DATE =	CHECKED - MTH	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 045-0005**

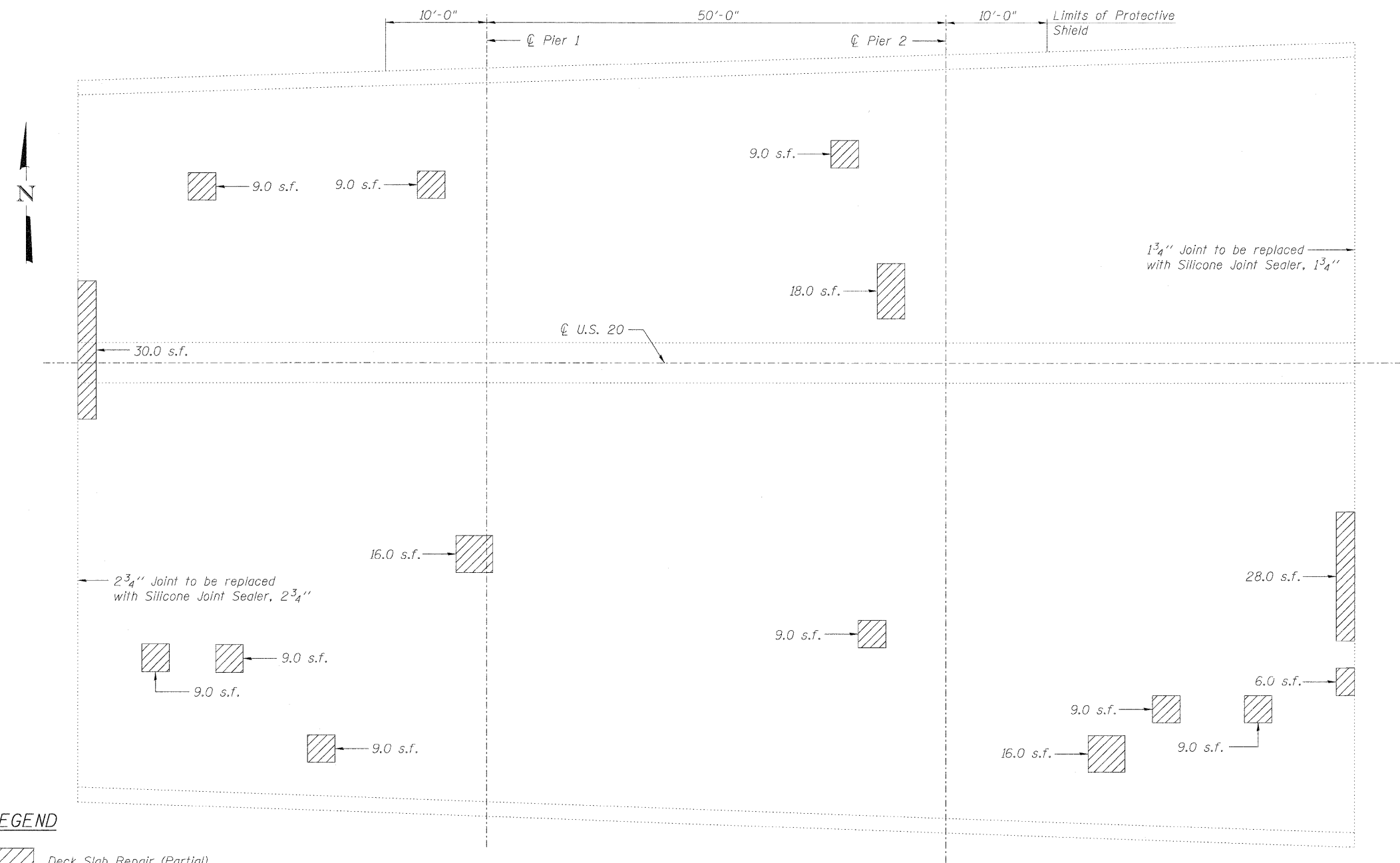
SHEET NO. 2 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	KANE	124	81
CONTRACT NO. 60M46				ILLINOIS FED. AID PROJECT



Notes:
 Repair of the existing deck slab shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.
 Cost of existing joint removal is included in the cost of Silicone Joint Sealer.
 Cost of concrete overlay removal for deck slab repair is included with the cost of Deck Slab Repair.
 Limits of Protective Shield shall extend longitudinally as shown below and transversely from North to South fascia beams.

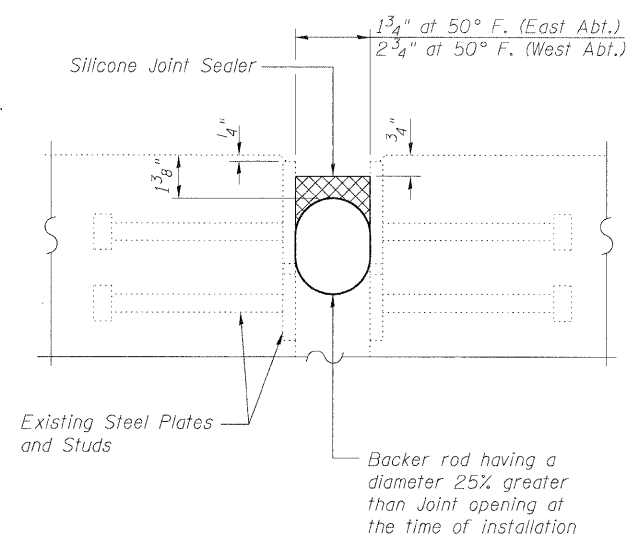
SILICONE JOINT SEALER END TREATMENT



LEGEND

Deck Slab Repair (Partial)
 s.f. Square Feet

PLAN

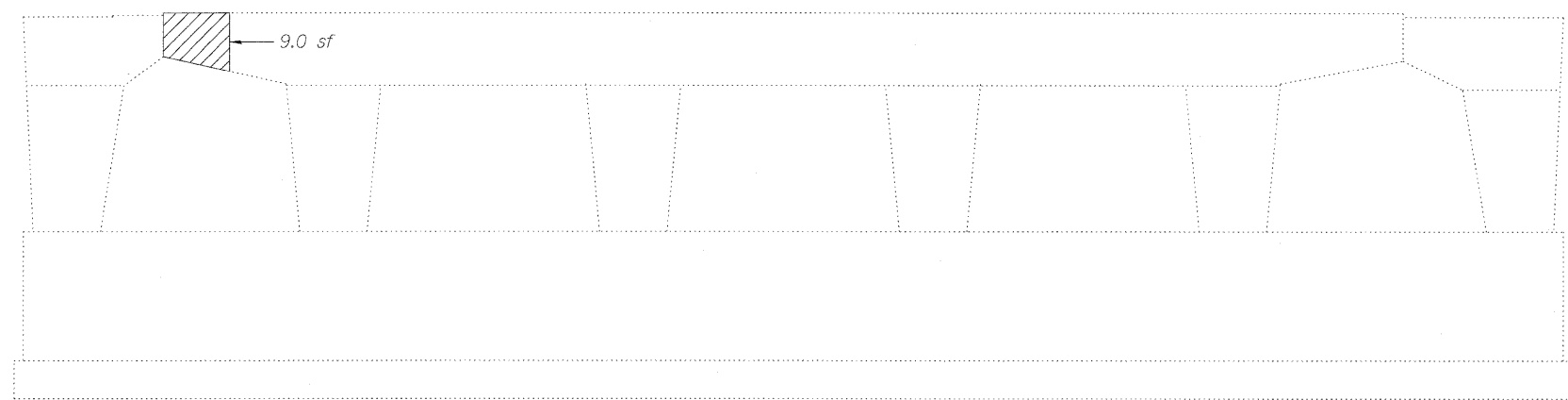


PROPOSED JOINT DETAIL @ ABUTMENTS

BILL OF MATERIAL

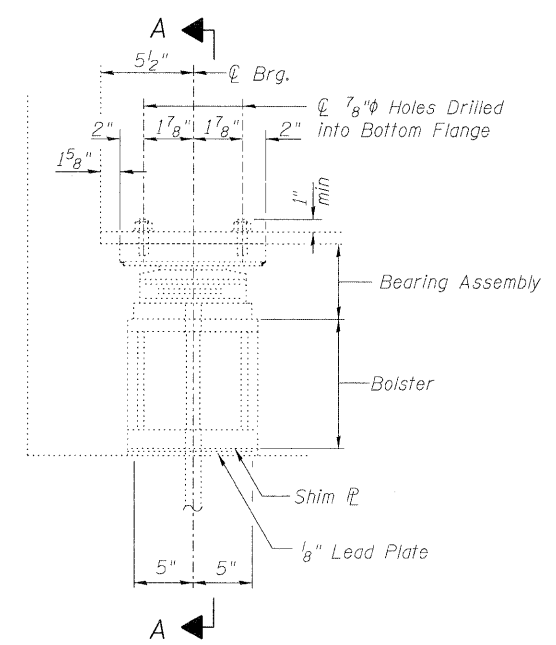
ITEM	UNIT	TOTAL
Deck Slab Repair (Partial)	Sq. Yd.	21.7
Silicone Joint Sealer, 1 3/4"	Foot	87
Silicone Joint Sealer, 2 3/4"	Foot	78
Protective Shield	Sq. Yd.	600

Existing Bearing information shown below for information only.



PIER 1
(East Face)

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

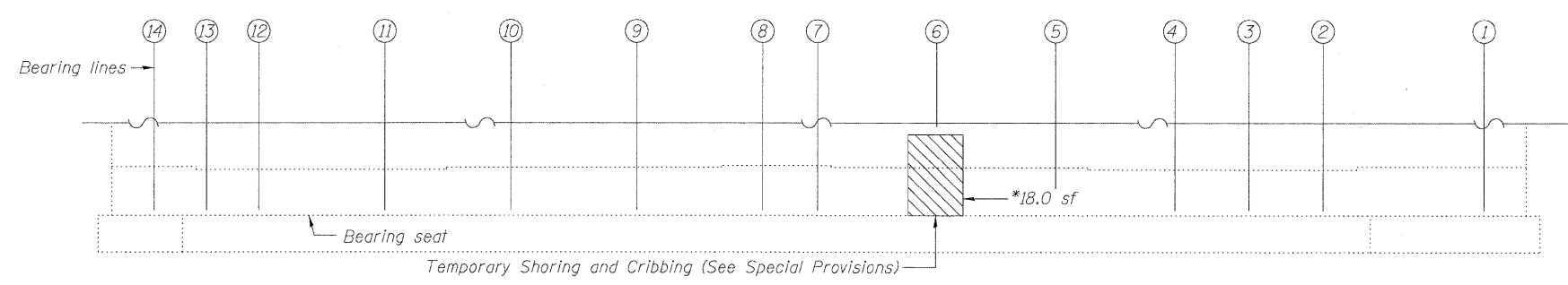


ELEVATION AT ABUTS.

BEAM REACTION TABLE

Dead Load (k)	17.0
Live Load (k)	41.0
Impact (k)	12.2

Min. Jack Capacity = 35 tons

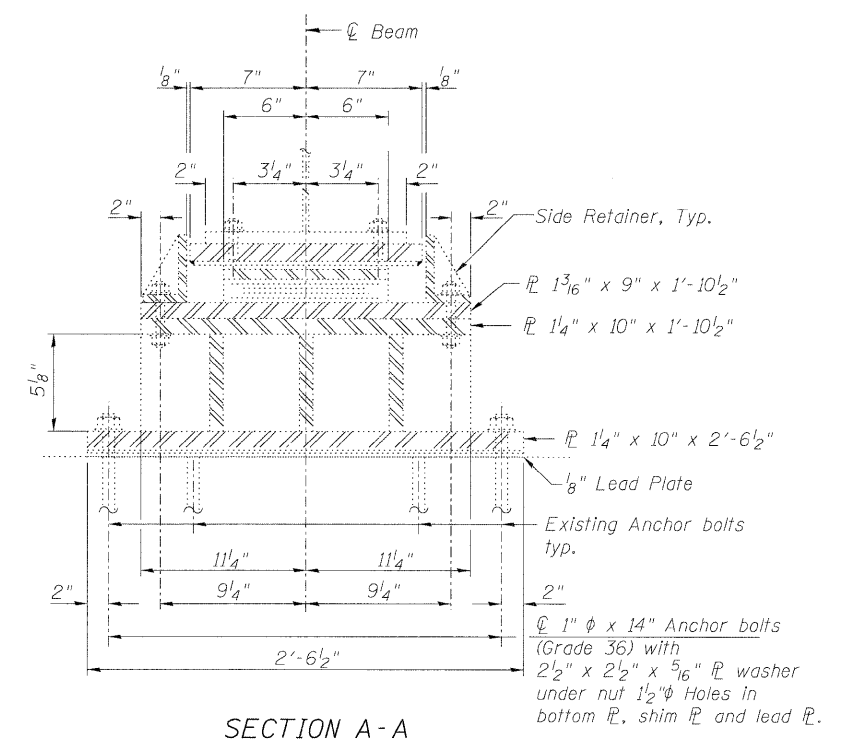


WEST ABUTMENT ELEVATION

*Repair required underneath bearing. Removal and reinstallation is required. This work shall be performed during Stage II construction and prior to deck repairs. Care shall be taken not to damage existing anchor bolts. Once the concrete has attained the required strength and the curing period is complete, the bearing shall be reinstalled and the cribbing shall be removed. Cost included with Structural Repair of Concrete.

LEGEND

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



SECTION A-A

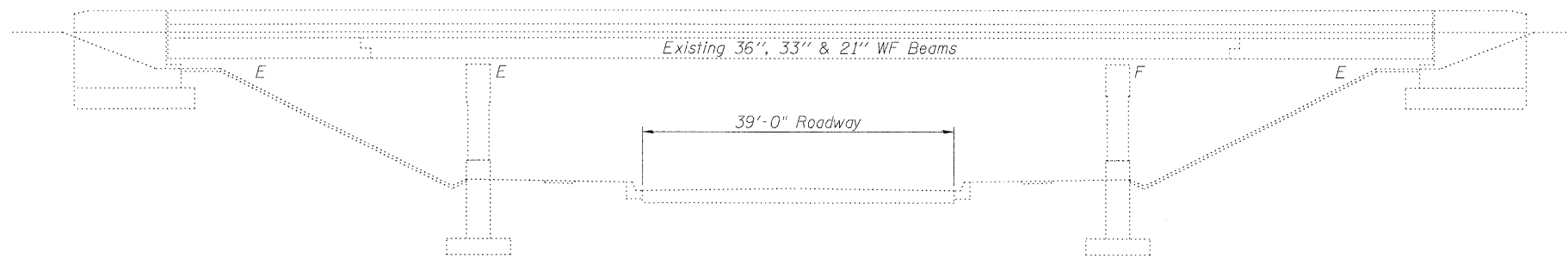
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth equal to or less than 5 in.)	Sq. Ft.	27
Temporary Shoring and Cribbing	Each	1

Existing Structure: S.N. 045-0006 built in 1960 as F.A. Route 6, Section 8R-HB-5 at Station 218+04.95. In 1986, bridge was widened, expansion joints reconstructed, overlay placed, bearings replaced and substructure was rehabilitated and widened. In 2003, steel beams were repaired and straightened. Structure consists of a three span steel WF beam bridge with 160'-2" back-to-back abutments, varying out-to-out deck width from 75'-5 3/4" to 78'-10 1/4", multi-column piers on spread footings and pile supported abutments. Stage construction shall be utilized to maintain one lane of traffic in each direction at all times.

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
See Roadway Plans for maintenance of traffic details.



ELEVATION

SCOPE OF WORK

1. Replace the preformed joint seals at the abutments and hinge joints with Silicone Joint Sealer.
2. Repair deck slab.
3. Clean drains.

DESIGN STRESSES

FIELD UNITS (New Const.)

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

FIELD UNITS (Existing Superstructure)

$f_c = 1,400$ psi
 $f_s = 20,000$ psi (Reinforcement)
 $f_s = 18,000$ psi (Structural Steel)

LOADING HS 20

(Original Construction)

DESIGN SPECIFICATIONS

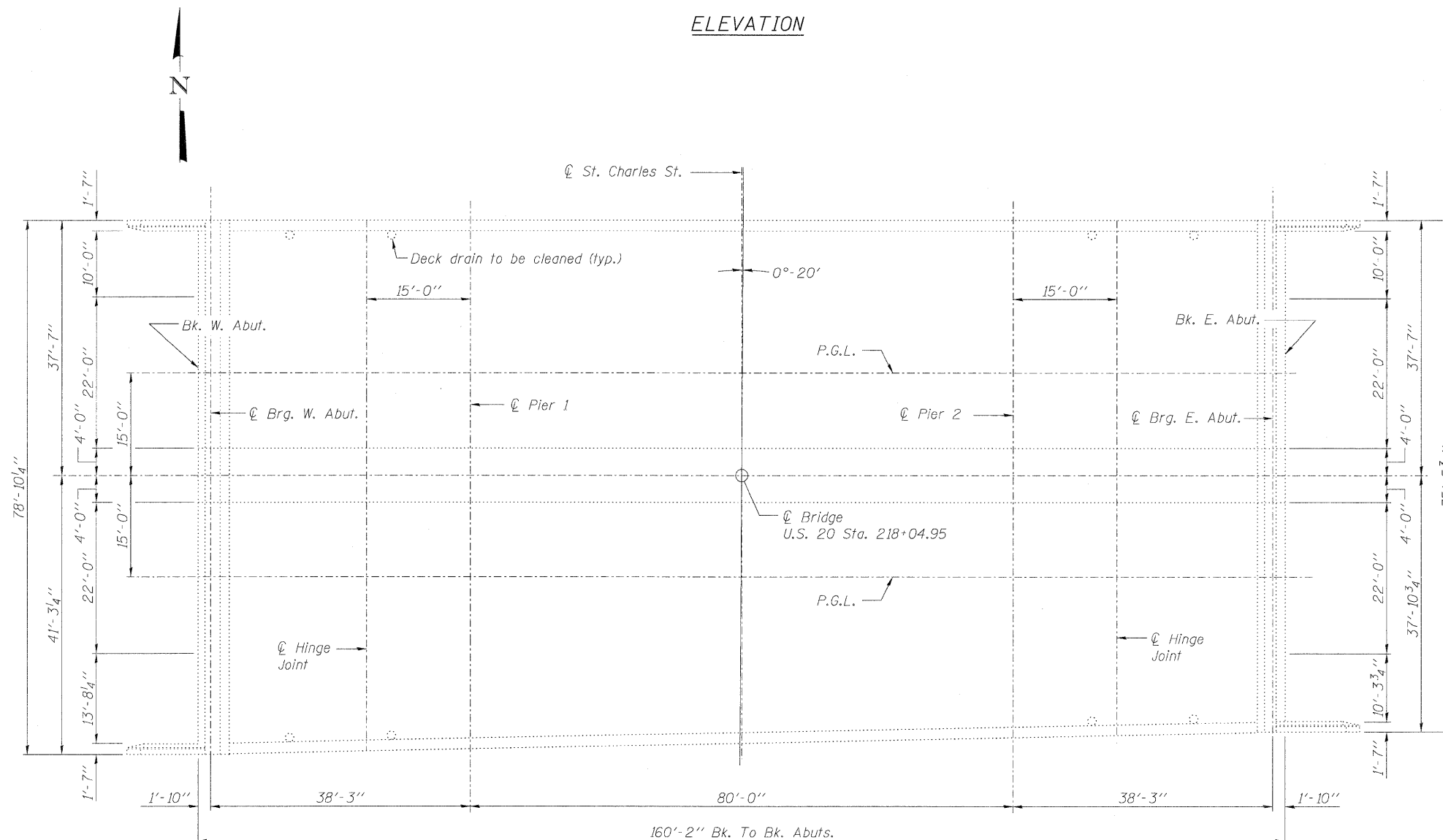
(New Construction)
2002 AASHTO "Standard Specifications for Highway Bridges"

INDEX OF SHEETS

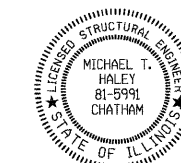
1. General Plan and Elevation
2. Stage Construction Details
3. Superstructure Repair

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Floor Drains to be Cleaned	Each	8	-	8
Silicone Joint Sealer, 2 3/4"	Foot	79	-	79
Silicone Joint Sealer, 1 3/4"	Foot	76	-	76
Silicone Joint Sealer, 1"	Foot	155	-	155
Deck Slab Repair (Full depth, Type I)	Sq. Yd.	0.7	-	0.7
Deck Slab Repair (Full depth, Type II)	Sq. Yd.	79.1	-	79.1
Deck Slab Repair (Partial)	Sq. Yd.	100.4	-	100.4
Protective Shield	Sq. Yd.	658	-	658

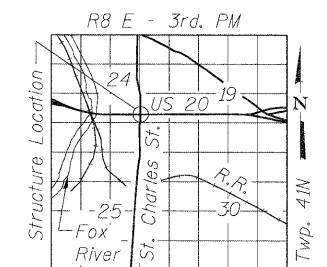


PLAN



Michael J. Haley
Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2012

3-24-2011
Date



LOCATION SKETCH

**GENERAL PLAN AND ELEVATION
US 20 OVER ST. CHARLES STREET
FAP RTE 345 - SECTION 8R-1-RS-4
KANE COUNTY
STATION 218+04.95
STRUCTURE NO. 045-0006**



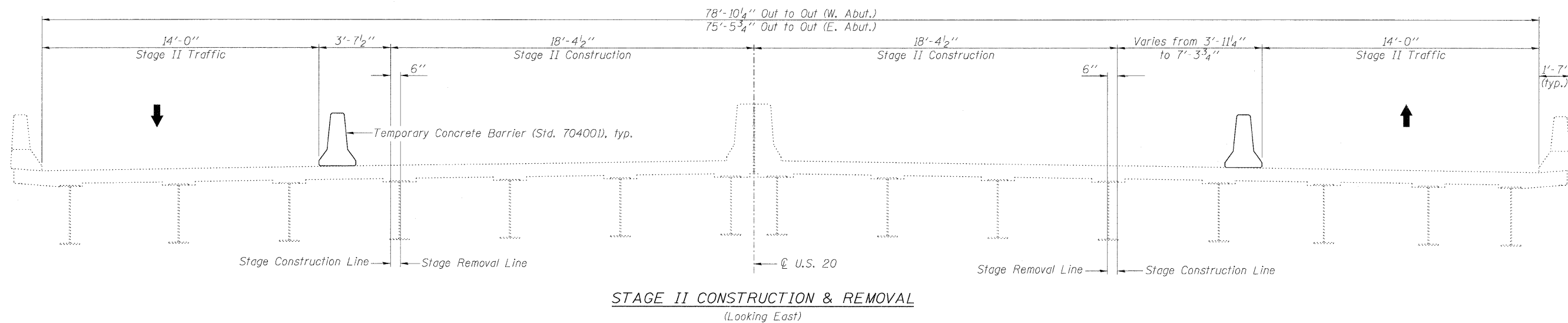
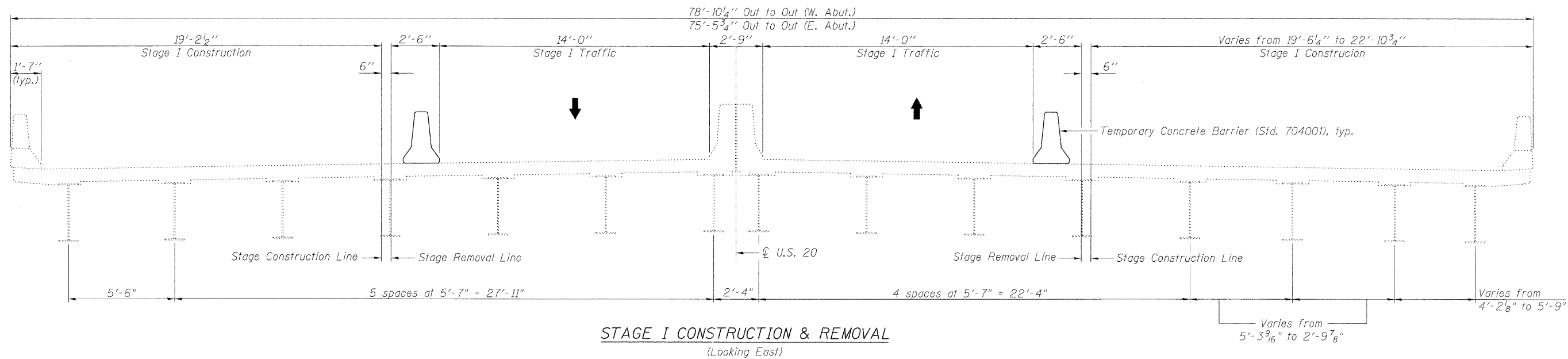
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PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - MTH	REVISED -

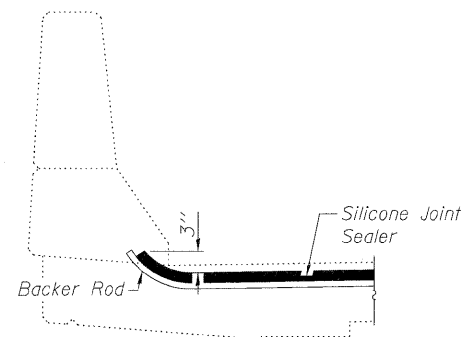
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
STRUCTURE NO. 045-0006**

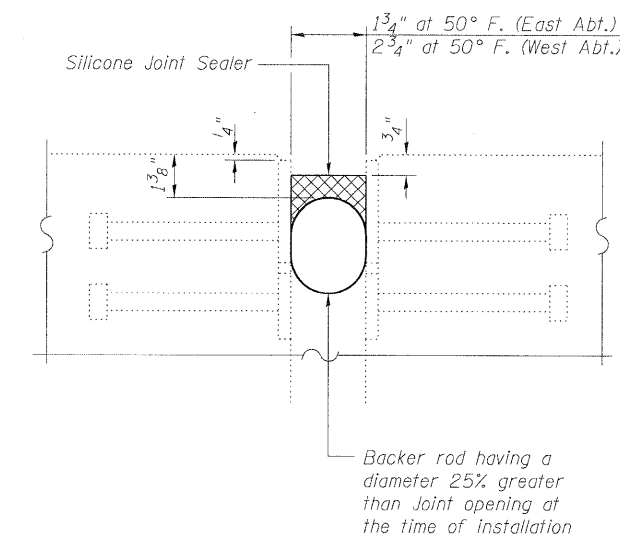
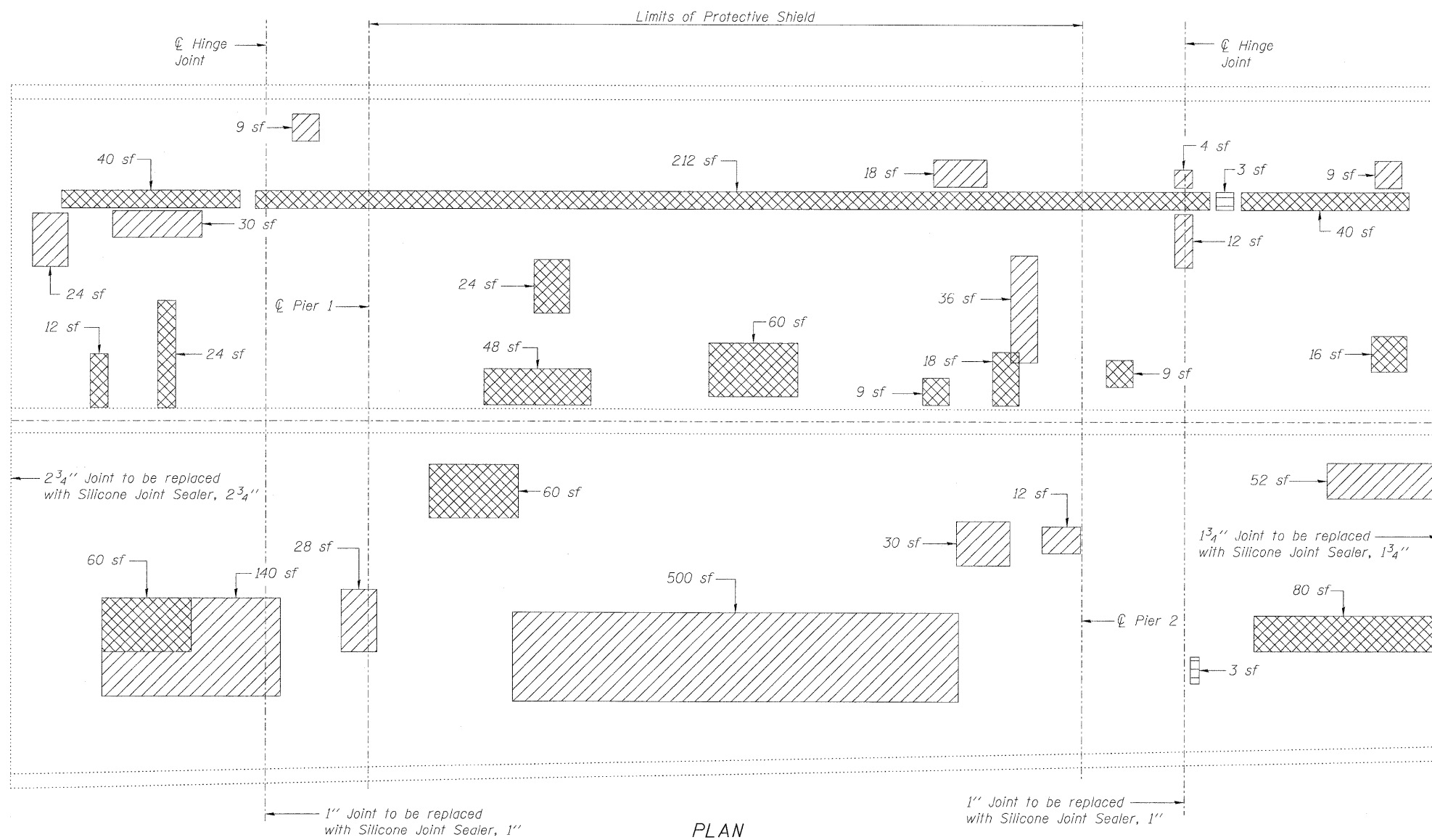
SHEET NO. 1 OF 3 SHEETS

F.A.P. RTE. 345	SECTION 8R-1-RS-4	COUNTY KANE	TOTAL SHEETS 124	SHEET NO. 84
			CONTRACT NO. 60M46	
ILLINOIS FED. AID PROJECT				

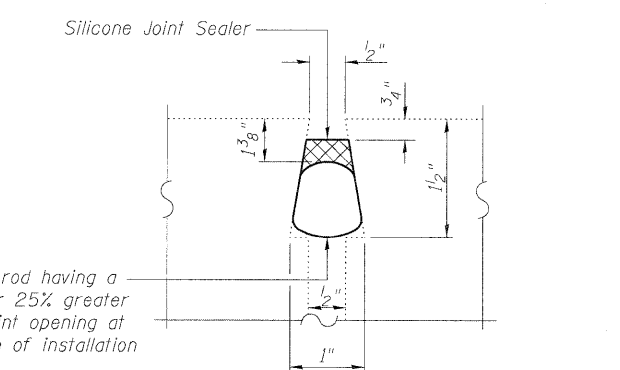




SILICONE JOINT SEALER END TREATMENT



PROPOSED JOINT DETAIL @ ABUTMENTS



PROPOSED JOINT DETAIL @ HINGES

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.7
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	79.1
Deck Slab Repair (Partial)	Sq. Yd.	100.4
Silicone Joint Sealer, 1"	Foot	76
Silicone Joint Sealer, 1 3/4"	Foot	76
Silicone Joint Sealer, 2 3/4"	Foot	155
Protective Shield	Sq. Yd.	658

LEGEND

- Deck Slab Repair (Full Depth, Type I)
- Deck Slab Repair (Full Depth, Type II)
- Deck Slab Repair (Partial)
- sf Square Feet

Notes:
 Repair of the existing deck slab shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.
 Limits of Protective Shield shall extend longitudinally from Pier 1 to Pier 2 and transversely from North to South fascia beams.
 Cost of existing joint removal is included in the cost of Silicone Joint Sealer.
 Cost of concrete overlay removal for deck slab repair is included with the cost of Deck Slab Repair.

Existing Structure: S.N. 045-0007 built in 1959 as F.A. Route 6, Section 8R-HB-6 at Station 221+35.32. In 1986, sidewalks and deck at longitudinal bonded construction joints were removed and bridge was widened, expansion joints reconstructed, overlay placed, bearings replaced and substructure was rehabilitated and widened. In 1998, steel beams were repaired and pin and link plate was replaced. In 2002, deck was patched and sealed, and substructure repaired. Structure consists of a three span steel WF beam bridge with 147'-6" back-to-back abutments, varying out-to-out deck width from 74'-8" to 77'-9 1/4", multi-column piers on spread footings and pile supported abutments. Stage construction shall be utilized to maintain one lane of traffic in each direction at all times.

SCOPE OF WORK

1. Replace the preformed joint seals at abutments and hinge joints with Silicone Joint Sealer.
2. Repair deck slab.
3. Clean drains.

INDEX OF SHEETS

1. General Plan and Elevation
2. Stage Construction Details
3. Superstructure Repair

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

See Roadway Plans for maintenance of traffic details.

DESIGN STRESSES

FIELD UNITS

NEW CONSTRUCTION	EXISTING CONSTRUCTION (SUPER)
$f'_c = 3,500$ psi	$f'_c = 1,400$ psi
$f_y = 60,000$ psi (Reinforcement)	$f_s = 20,000$ psi (Reinforcement)

LOADING HS 20

(Original Construction)

DESIGN SPECIFICATIONS

(New Construction)
2002 AASHTO "Standard Specifications for Highway Bridges"

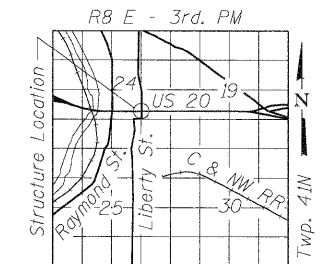
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Silicone Joint Sealer, 1"	Foot	152	-	152
Silicone Joint Sealer, 1 3/4"	Foot	77	-	77
Silicone Joint Sealer, 2 3/4"	Foot	74	-	74
Floor Drains to be Cleaned	Each	8	-	8
Deck Slab Repair (Partial)	Sq. Yd.	39.7	-	39.7
Protective Shield	Sq. Yd.	539	-	539



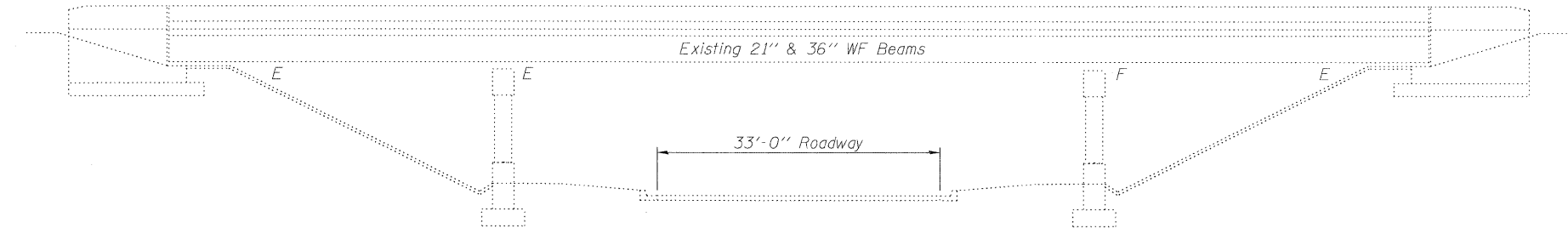
Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2012

3-24-2011
Date

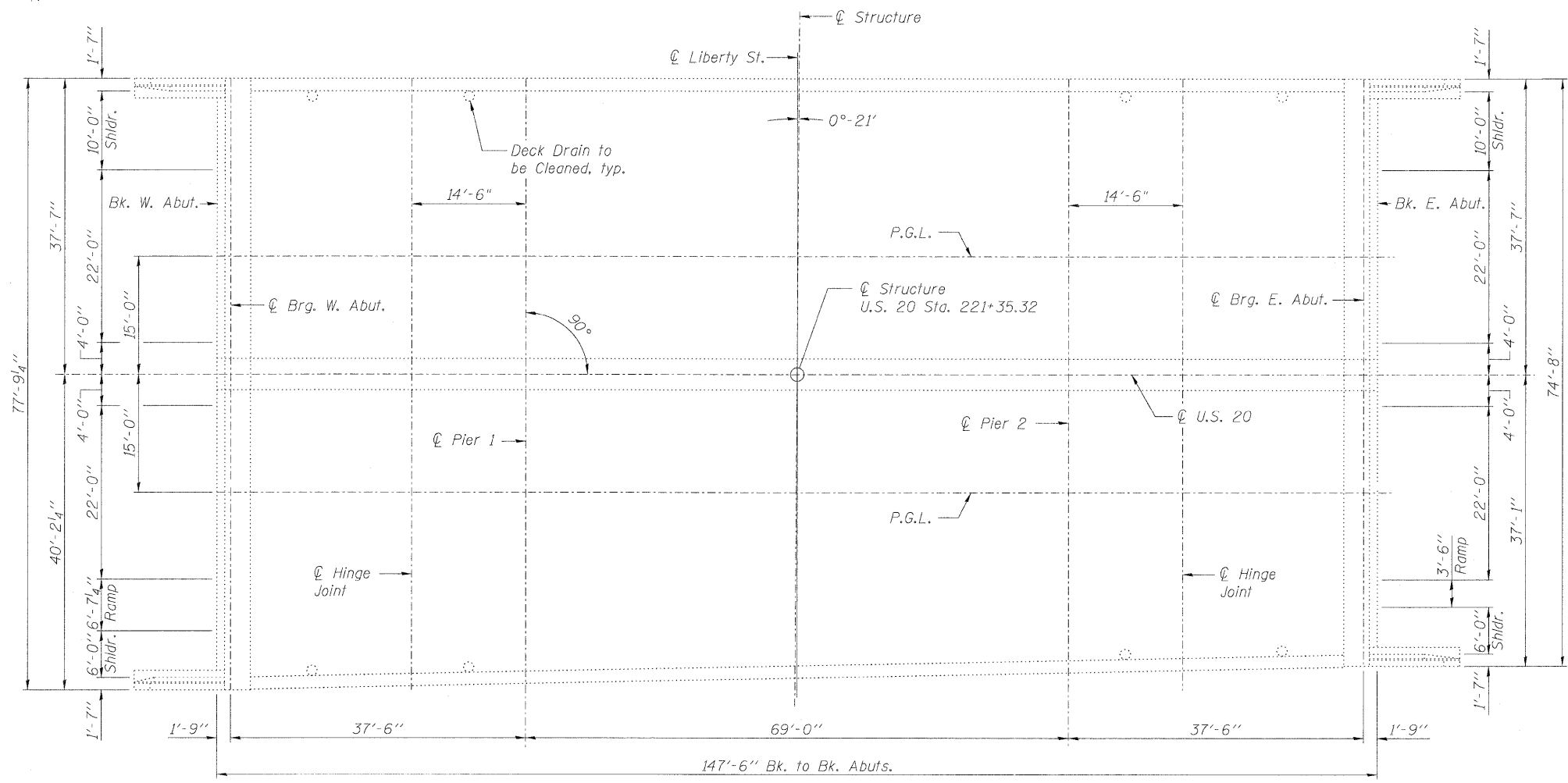


LOCATION SKETCH

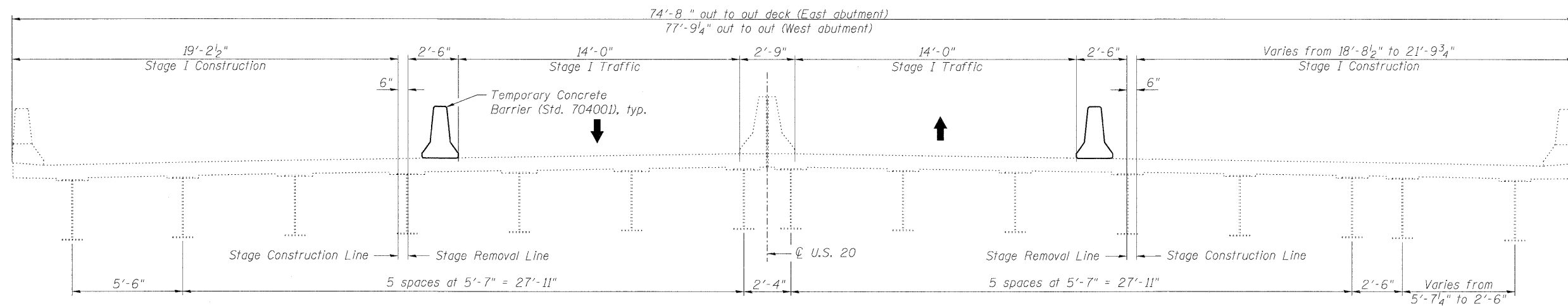
GENERAL PLAN AND ELEVATION
US 20 OVER IL 25 (LIBERTY STREET)
FAP RTE 345 - SECTION 8R-1-RS-4
KANE COUNTY
STATION 221+35.32
STRUCTURE NO. 045-0007



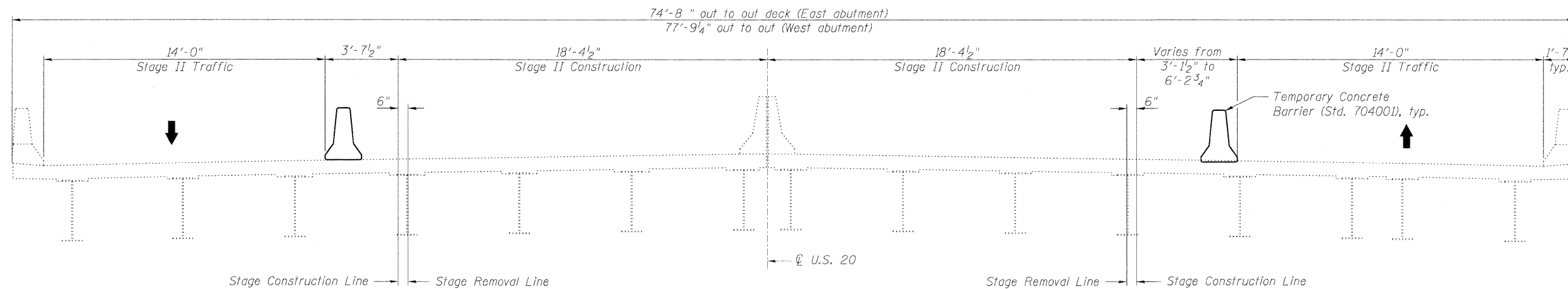
ELEVATION



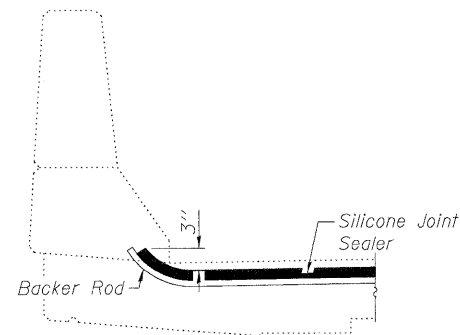
PLAN



STAGE I REMOVAL & CONSTRUCTION
(Looking East)



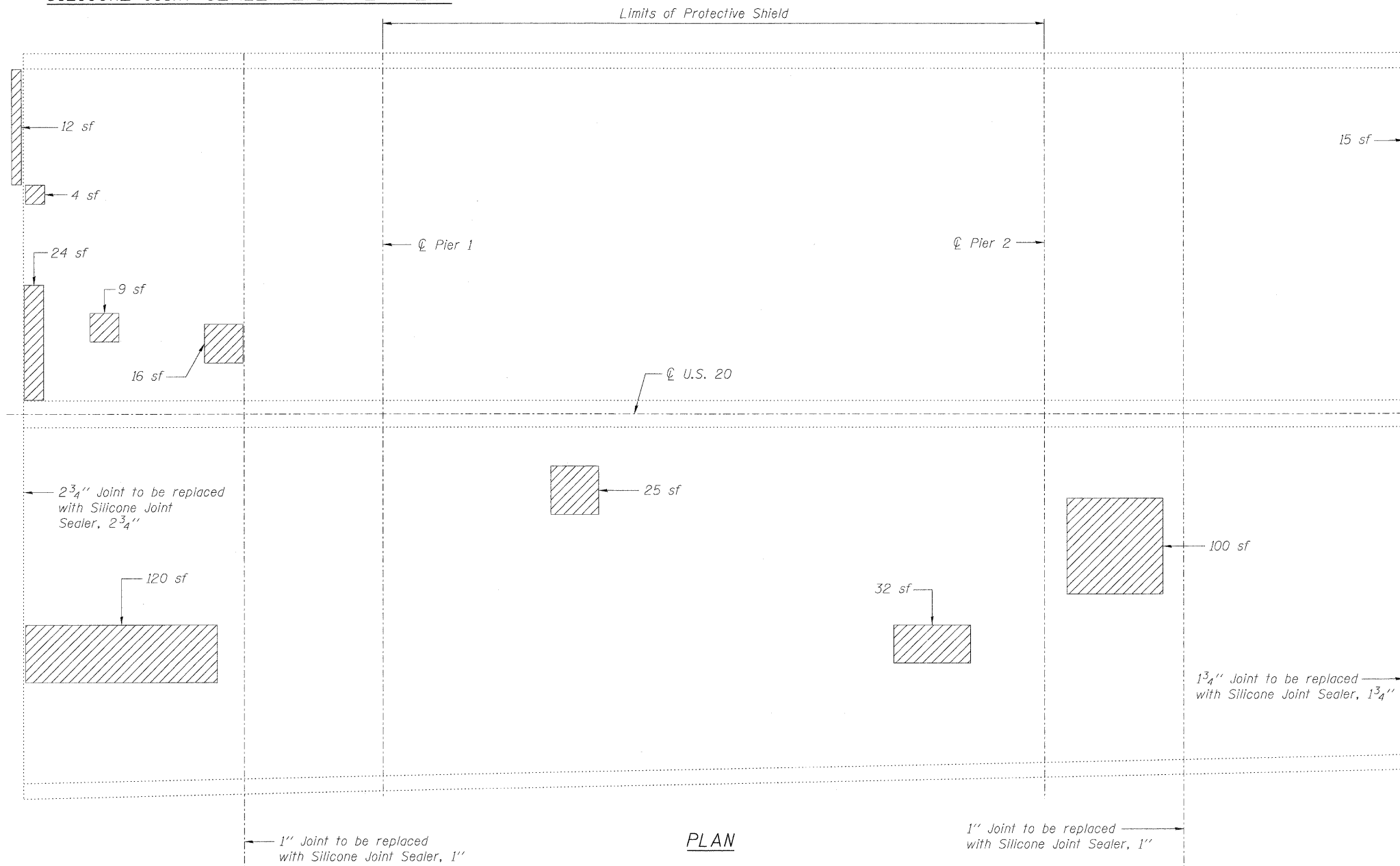
STAGE II REMOVAL & CONSTRUCTION
(Looking East)



Notes:
 Repair of the existing deck slab shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.
 Cost of existing joint removal is included in the cost of Silicone Joint Sealer.
 Cost of concrete overlay removal for deck slab repair is included with the cost of Deck Slab Repair.
 Limits of Protective Shield shall extend longitudinally from Pier 1 to Pier 2 and transversely from North to South fascia beam.



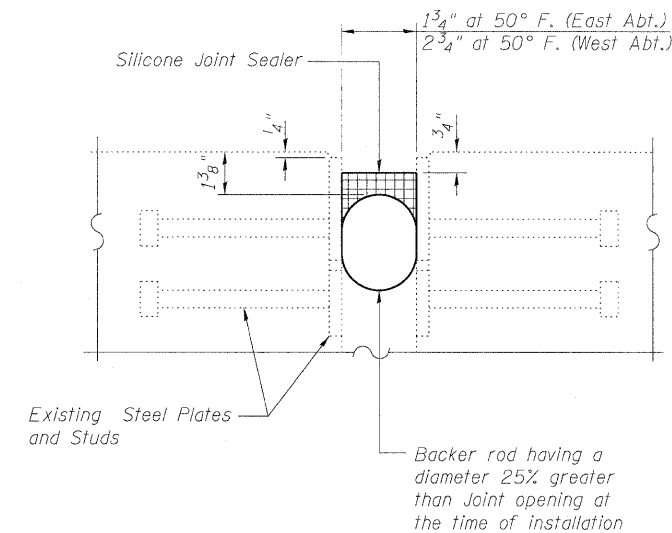
SILICONE JOINT SEALER END TREATMENT



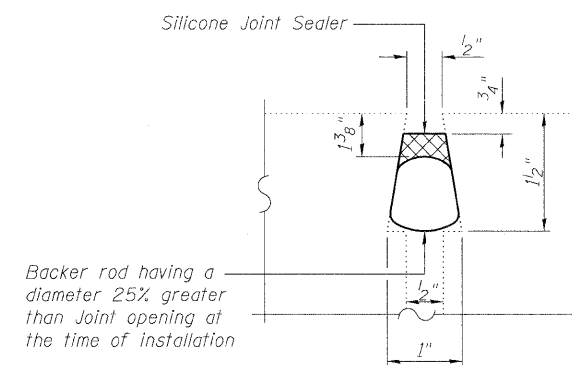
PLAN

LEGEND

- Deck Slab Repair (Partial)
- sf Square Feet



PROPOSED JOINT DETAIL @ ABUTMENTS



PROPOSED JOINT DETAIL @ HINGES

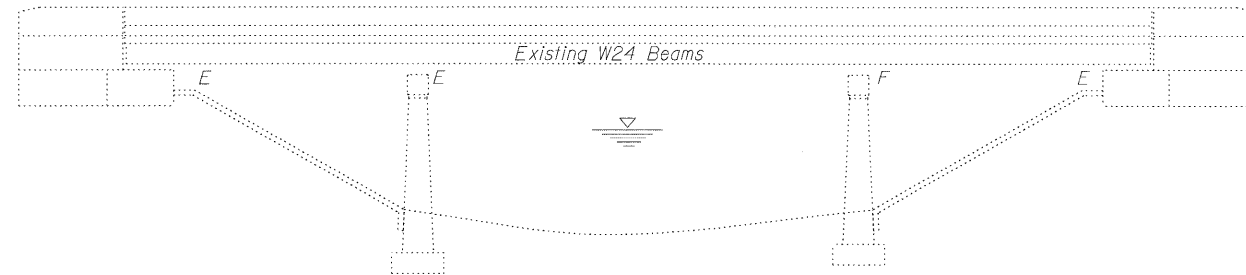
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Deck Slab Repair (Partial)	Sq. Yd.	39.7
Silicone Joint Sealer, 1"	Foot	152
Silicone Joint Sealer, 1 3/4"	Foot	74
Silicone Joint Sealer, 2 3/4"	Foot	77
Protective Shield	Sq. Yd.	539

Existing Structure: S.N. 016-0217 built in 1959 as F.A. Route 6, Section 8-RB-1 at Station 240+83.50. In 1986, the bridge was widened, concrete overlay was placed, expansion joints reconstructed, bearings replaced and substructure was rehabilitated and widened. Structure consists of a three span steel WF beam bridge with 119'-0" back-to-back abutments, out-to-out deck width of 75'-2", solid wall piers on pile footings and pile supported stub abutments. Stage construction shall be utilized to maintain one lane of traffic in each direction at all times.

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
See Roadway Plans for maintenance of traffic details.



ELEVATION

INDEX OF SHEETS

1. General Plan and Elevation
2. Stage Construction Details
3. Superstructure Repair
4. Substructure Repair

SCOPE OF WORK

1. Replace the neoprene abutment joints with polymer concrete and Silicone Joint Sealer.
2. Repair deck slab.
3. Repair substructure and slope wall.

DESIGN STRESSES

FIELD UNITS (New Const.)

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

FIELD UNITS (Existing)

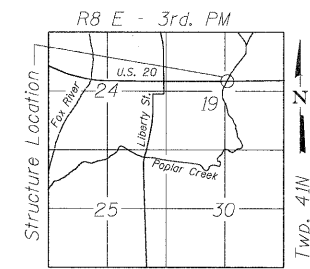
$f_c = 1,400$ psi (Superstructure & Substructure)
 $f_s = 20,000$ psi & 24,000 psi (Reinforcement)
 $f_s = 18,000$ psi & 20,000 psi (Structural Steel)

LOADING HS 20

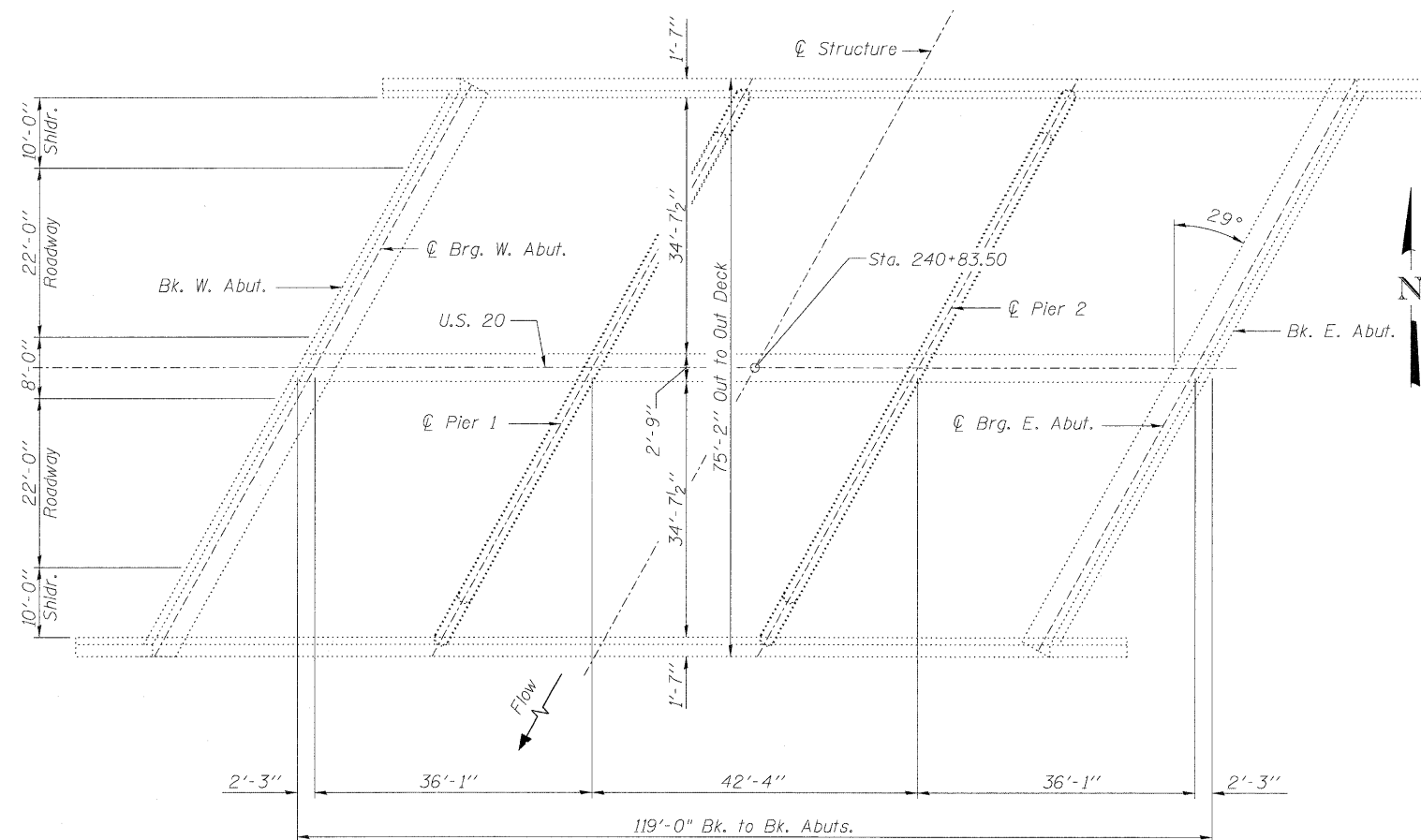
(Original Construction)

DESIGN SPECIFICATIONS

(New Construction)
2002 AASHTO "Standard Specifications for Highway Bridges"



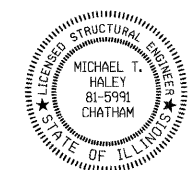
LOCATION SKETCH



PLAN

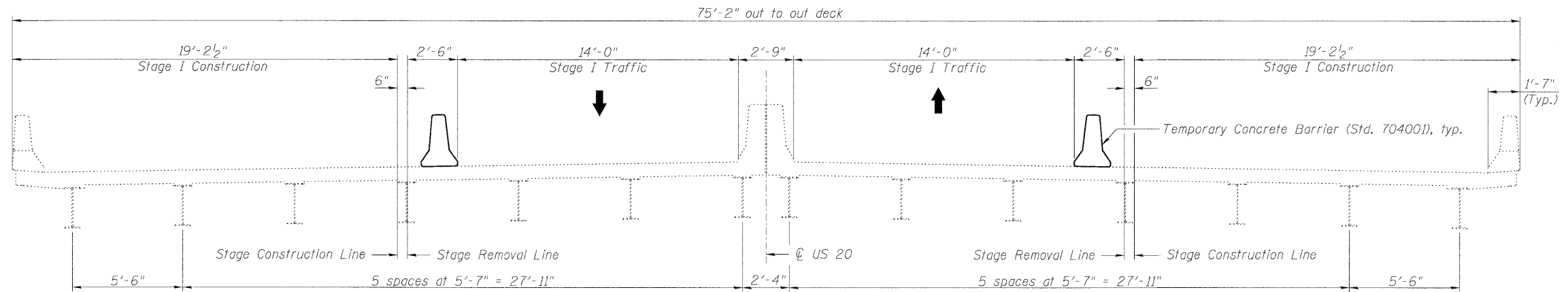
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A3	Ton	-	12	12
Silicone Joint Sealer, 2"	Foot	167	-	167
Polymer Concrete	Cu. Ft.	11.4	-	11.4
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	13.3	-	13.3
Deck Slab Repair (Partial)	Sq. Yd.	50.8	-	50.8
Structural Repair of Concrete (Depth equal to or less than 5 in.)	Sq. Ft.	6	-	6
Slope Wall 6 inch	Sq. Yd.	-	26.4	26.4



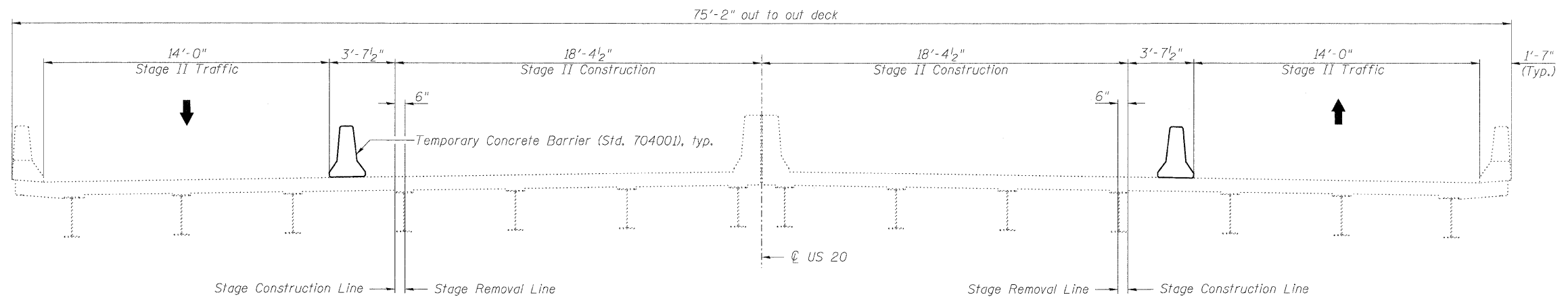
Michael J. Haley 3-24-2011
Michael T. Haley Date
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2012

**GENERAL PLAN AND ELEVATION
US 20 OVER POPLAR CREEK
FAP RTE 345- SECTION 8R-1-RS-4
COOK COUNTY
STATION 240+83.50
STRUCTURE NO. 016-0217**



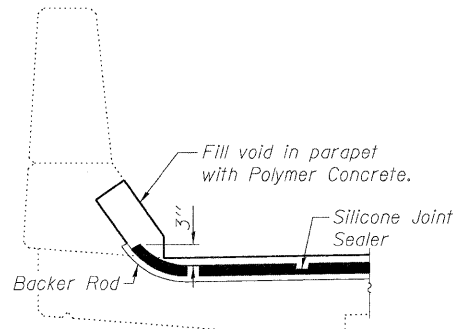
STAGE I REMOVAL & CONSTRUCTION

(Looking East)

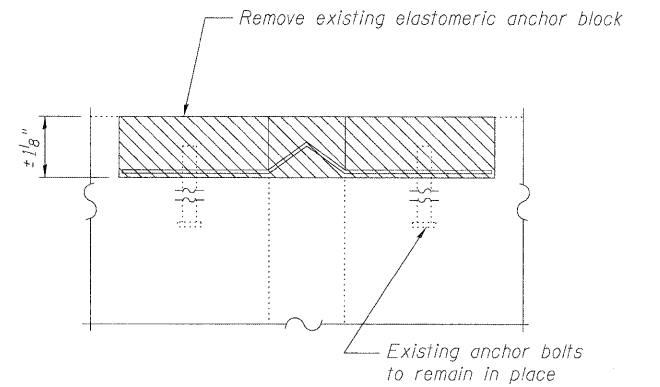


STAGE II REMOVAL & CONSTRUCTION

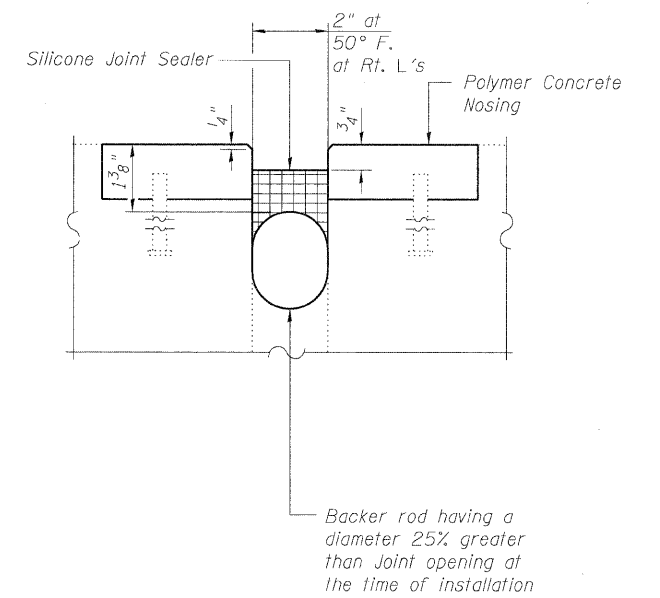
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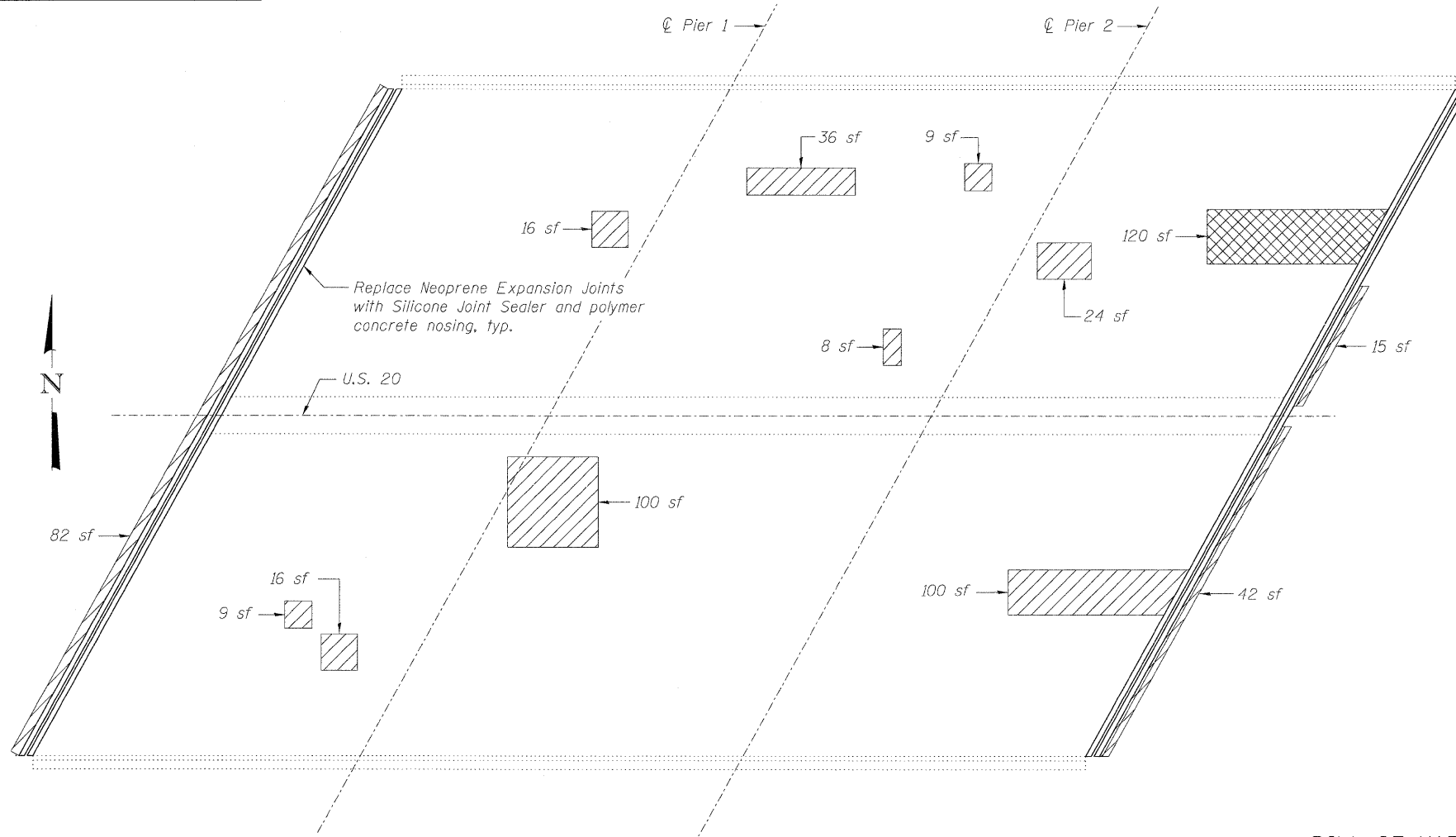
SILICONE JOINT SEALER END TREATMENT



EXISTING JOINT DETAIL @ ABUTMENTS



PROPOSED JOINT DETAIL @ ABUTMENTS



PLAN

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Silicone Joint Sealer, 2"	Foot	167
Polymer Concrete	Cu. Ft.	11.4
Deck Slab Repair (Partial)	Sq. Yd.	50.8
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	13.3

LEGEND

- Removal of Existing Joint material
- Deck Slab Repair (Full Depth, Type II)
- Deck Slab Repair (Partial)
- sf Square Feet

Notes:
 Repair of the existing deck slab shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.
 Cost of concrete overlay removal for deck slab repair is included with the cost of Deck Slab Repair.
 Cost of existing joint removal is included in the cost of Silicone Joint Sealer.



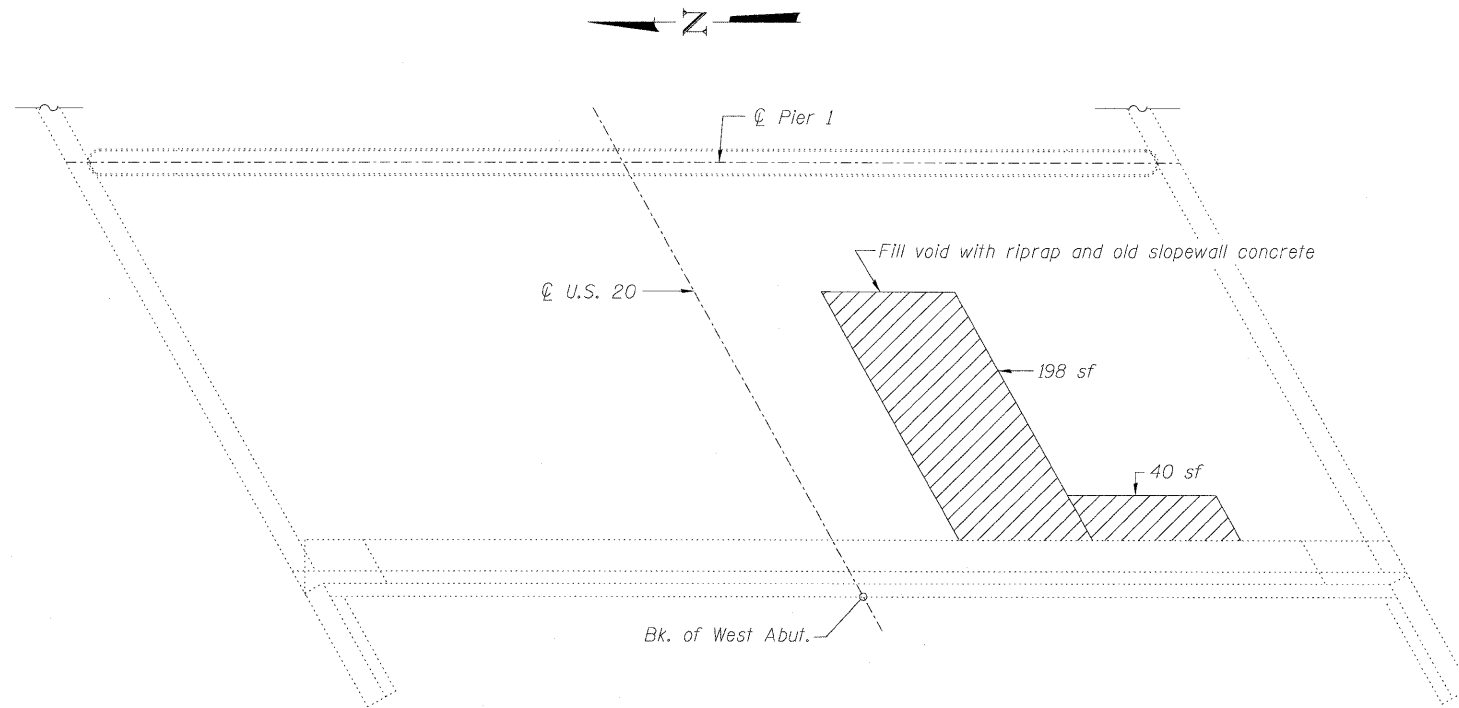
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FILE NAME =	CHECKED - ADB	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE REPAIR
STRUCTURE NO. 016-0217

SHEET NO. 3 OF 4 SHEETS

F.A.P. RTE. 345	SECTION BR-1-RS-4	COUNTY COOK	TOTAL SHEETS 124	SHEET NO. 92
CONTRACT NO. 60M46			ILLINOIS FED. AID PROJECT	



PLAN WEST SLOPEWALL

Notes:

Existing failed slope wall concrete shall be broken up into manageable pieces and included with the Riprap fill volume. Cost included with Stone Dumped Riprap, Class A3.

Riprap volume is approximately 300 cu. ft. and shall be placed prior to slope wall repair. Slope wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

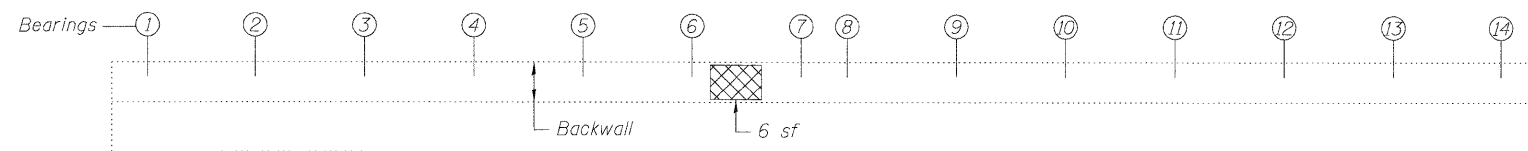
Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Slope Wall 6".

Lap existing welded wire fabric with proposed at the joint.

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

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Dumped Riprap, Class A3	Ton	12
Slope Wall 6"	Sq. Yd.	26.4
Structural Repair of Concrete (Depth equal to or less than 5 in.)	Sq. Ft.	6



ELEVATION EAST ABUTMENT
Looking East

LEGEND

Structural Repair of Concrete (Depth equal to or less than 5 in.)

Slope Wall Repair

sf Square Feet

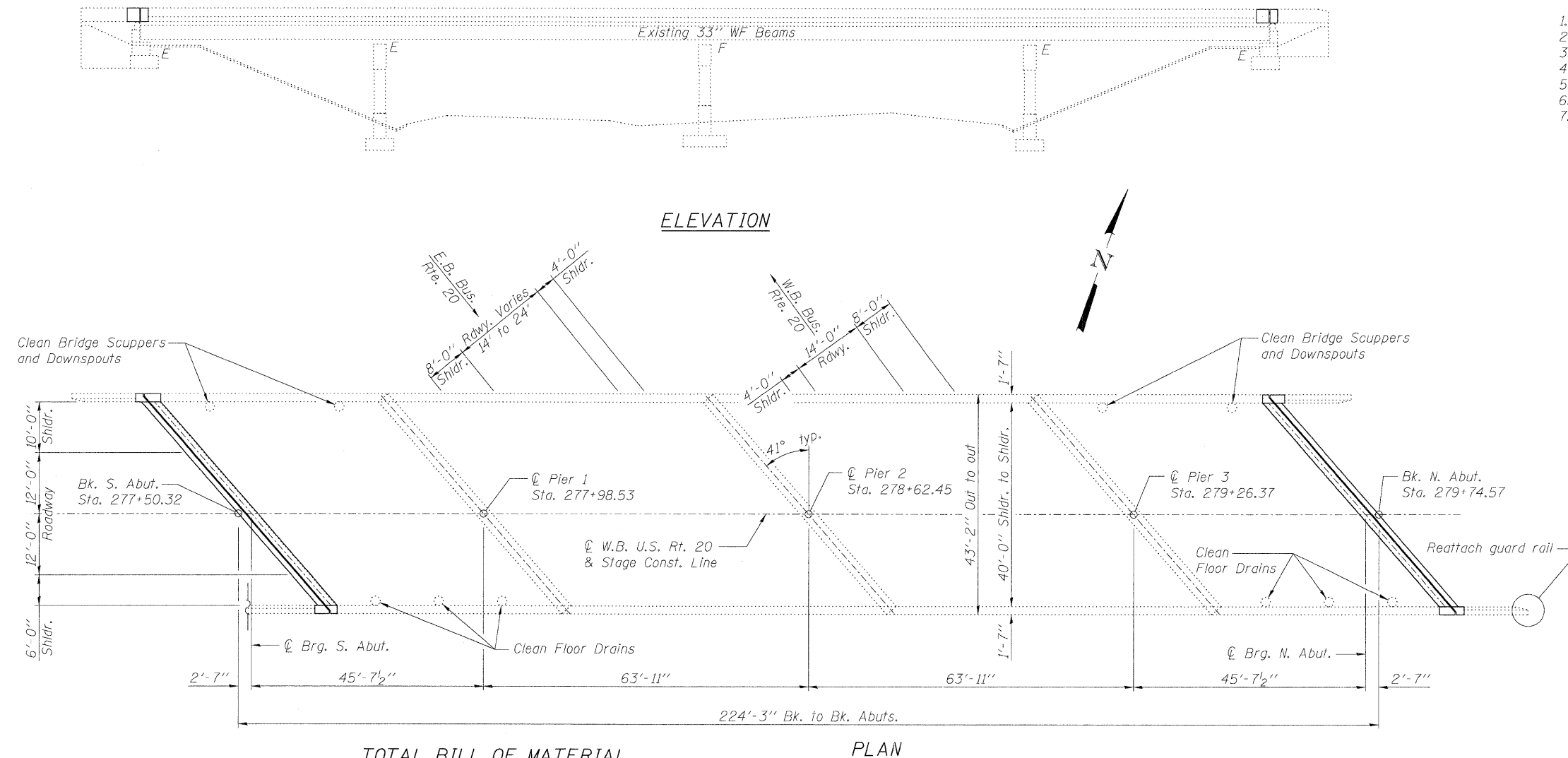
Existing Structure: S.N. 016-0218 built in 1961 as F.A. Route 6, Section 8R-HB-7 at Station 278+61.60. In 1987, the reinforced concrete deck was replaced and widened, the substructure was rehabilitated and widened, expansion joints reconstructed and bearings replaced. Structure consists of a four span steel WF beam bridge with 224'-3" back-to-back abutments, 43'-2" out-to-out deck width, multi-column piers and open abutments. Stage construction shall be utilized to maintain one lane of traffic at all times.

SCOPE OF WORK

1. Remove and replace concrete deck and parapets adjacent to abutment expansion joints.
2. Provide preformed joint strip seal expansion joints at abutments.
3. Repair deck slab.
4. Repair substructure.
5. Clean Scuppers.
6. Apply concrete sealer to top of concrete deck and top and inside vertical face of parapets.
7. Repair guardrail attachment.

INDEX OF SHEETS

1. General Plan and Elevation
2. Stage Construction Details
3. Superstructure Repair
4. Concrete Removal and Replacement
5. Substructure Repair
6. Preformed Joint Strip Seal
7. Bar Splicer Assembly and Mechanical Splicer Details



DESIGN STRESSES

FIELD UNITS (New Const.)

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

FIELD UNITS (Existing)

$f_c = 14,000$ psi (Superstructure & Substructure)
 $f_s = 18,000$ psi (Reinforcement)
 $f_s = 20,000$ psi (Structural Steel)

LOADING HS 20-44

(Original Construction)

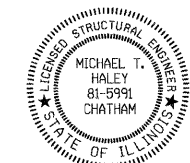
DESIGN SPECIFICATIONS

(New Construction)
 2002 AASHTO "Standard Specifications for Highway Bridges"

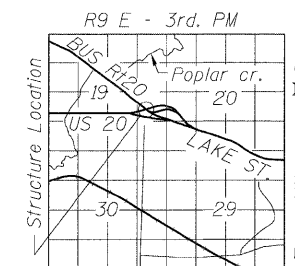
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Preformed Joint Strip Seal	Foot	112	-	112
Concrete Sealer	Sq. Ft.	10471	-	10471
Protective Shield	Sq. Yd.	539	-	539
Concrete Removal	Cu. Yd.	13.1	-	13.1
Concrete Superstructure	Cu. Yd.	13.1	-	13.1
Deck Slab Repair (Partial)	Sq. Yd.	9.1	-	9.1
Structural Repair of Concrete (Depth equal to or less than 5 in.)	Sq. Ft.	-	55	55
Reinforcement Bars, Epoxy coated	Pound	2010	-	2010
Bar Splicers	Each	24	-	24
Guardrail Repair	Each	1	-	1
Floor Drains to be cleaned	Each	6	-	6
Cleaning Bridge Scuppers and Downspouts	Each	4	-	4

PLAN



Michael T. Haley
 Michael T. Haley
 Licensed Structural Engineer
 State of Illinois No. 81-5991
 Expires 11/30/2012



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
 W.B. US 20 OVER BUS. US 20
 FAP RTE 345 - SECTION 8R-1-RS-4
 COOK COUNTY
 STATION 278+62.45
 STRUCTURE NO. 016-0218



USER NAME =	DESIGNED - TBP	REVISED -
FILE NAME =	CHECKED - ADB	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
 STRUCTURE NO. 016-0218

SHEET NO. 1 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	8R-1-RS-4	COOK	124	94
CONTRACT NO. 60M46				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

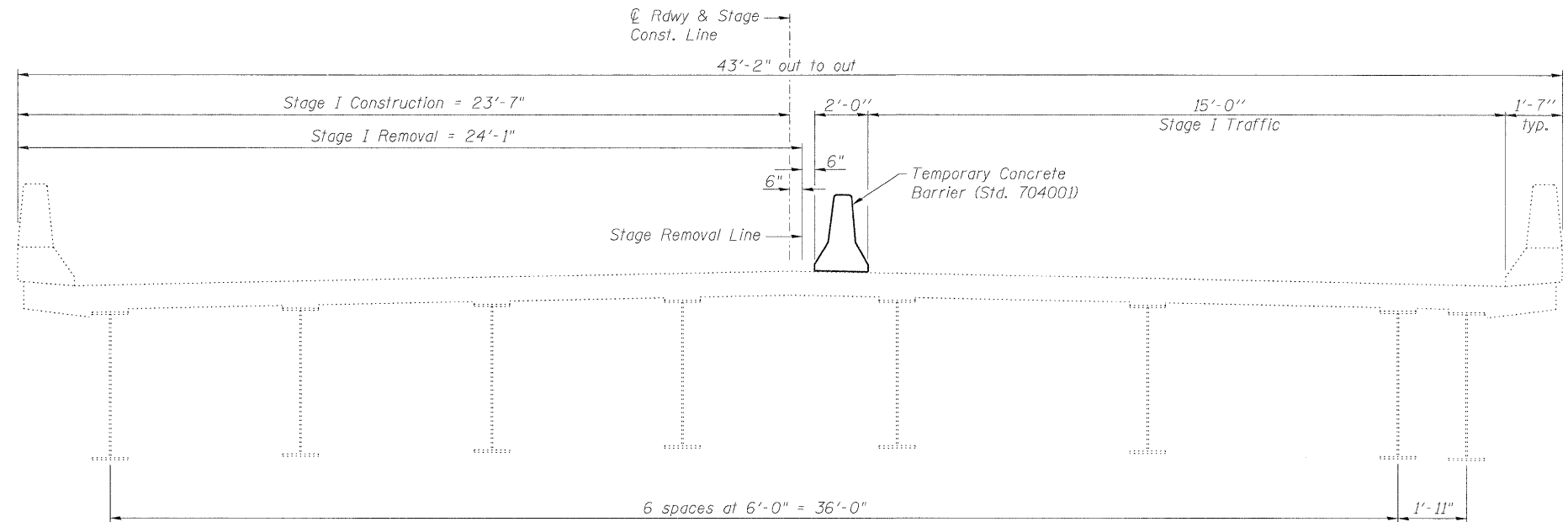
See Roadway plans for maintenance of traffic details.

Joint opening shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

Prior to pouring the new concrete deck, 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. 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 included in the pay item covering removal of the existing concrete.

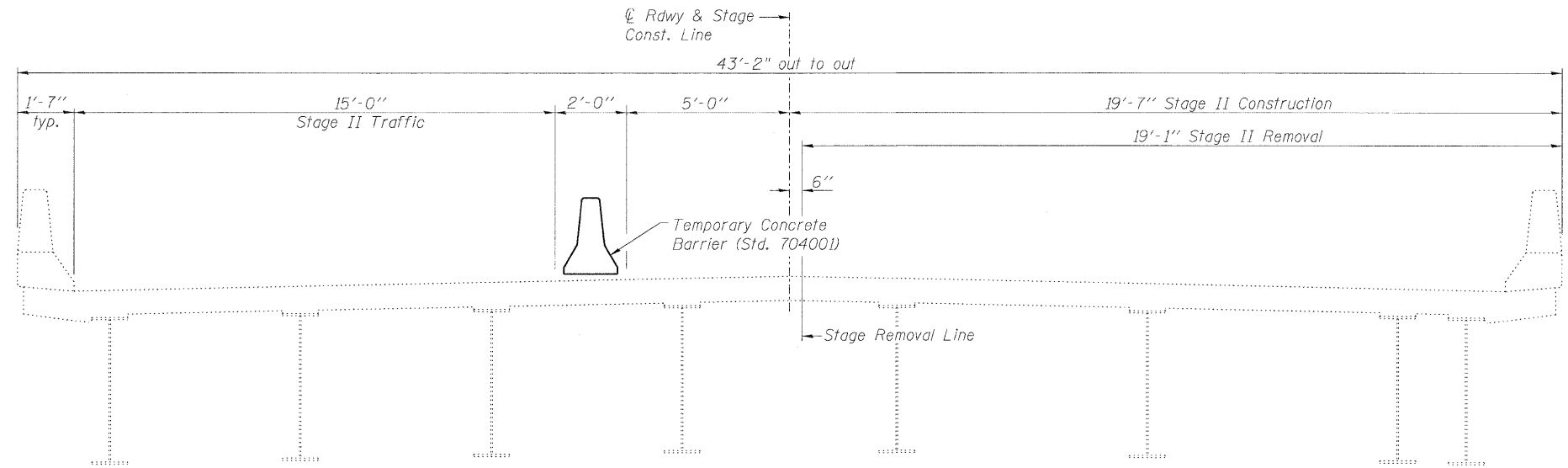
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructures.



STAGE I REMOVAL & CONSTRUCTION

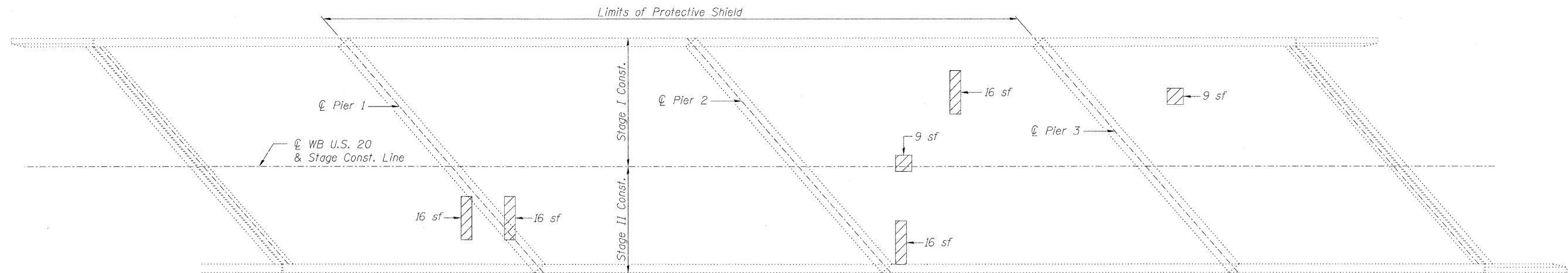
(Looking North)



STAGE II REMOVAL AND CONSTRUCTION

(Looking North)

<p>LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois</p>	USER NAME =	DESIGNED - TBP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS STRUCTURE NO. 016-0218	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME =	CHECKED - ADB	REVISED -			345	BR-1-RS-4	COOK	124	95
	PLOT SCALE =	DRAWN - AJF	REVISED -			CONTRACT NO. 60M46				
	PLOT DATE =	CHECKED - MTH	REVISED -			ILLINOIS FED. AID PROJECT				
SHEET NO. 2 OF 7 SHEETS										



PLAN

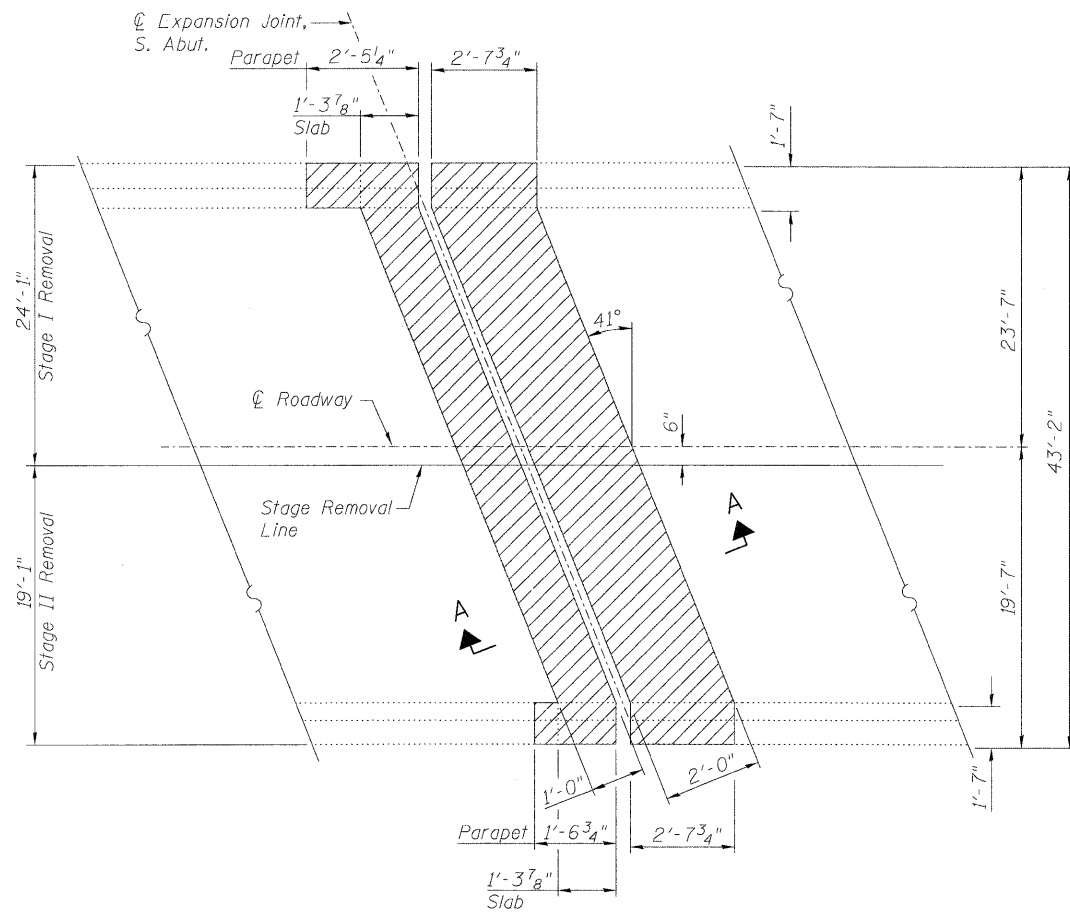
Notes:
 Repair of the existing deck slab shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.
 Limits of Protective Shield shall extend longitudinally from Pier 1 to Pier 3 and transversely from North to South fascia beams.

BILL OF MATERIAL

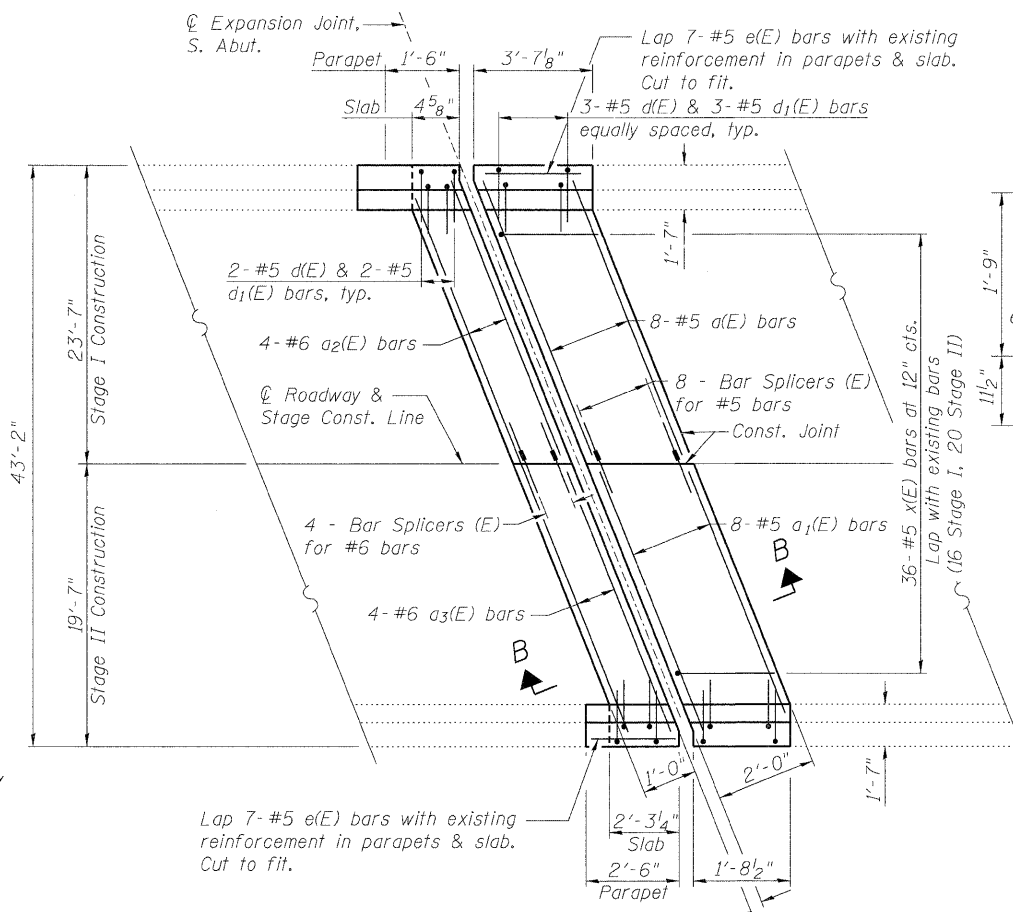
ITEM	UNIT	TOTAL
Deck Slab Repair (Partial)	Sq. Yd.	9.1
Protective Shield	Sq. Yd.	5.39

LEGEND

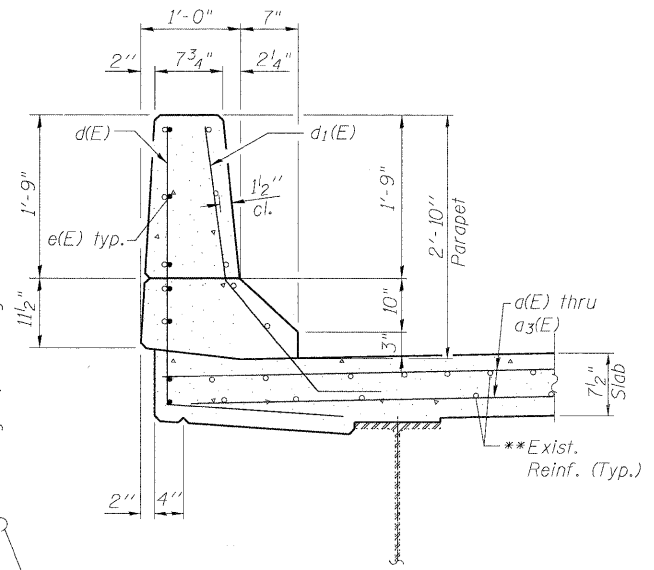
- Deck Slab Repair (Partial)
- sf Square Feet



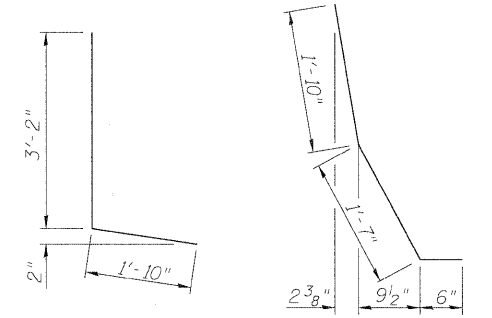
PARTIAL PLAN SHOWING CONCRETE REMOVAL AT SOUTH ABUTMENT
(South abutment shown, north abutment opposite hand)



PARTIAL PLAN SHOWING CONCRETE REPLACEMENT AT SOUTH ABUTMENT
(South abutment shown, north abutment opposite hand)



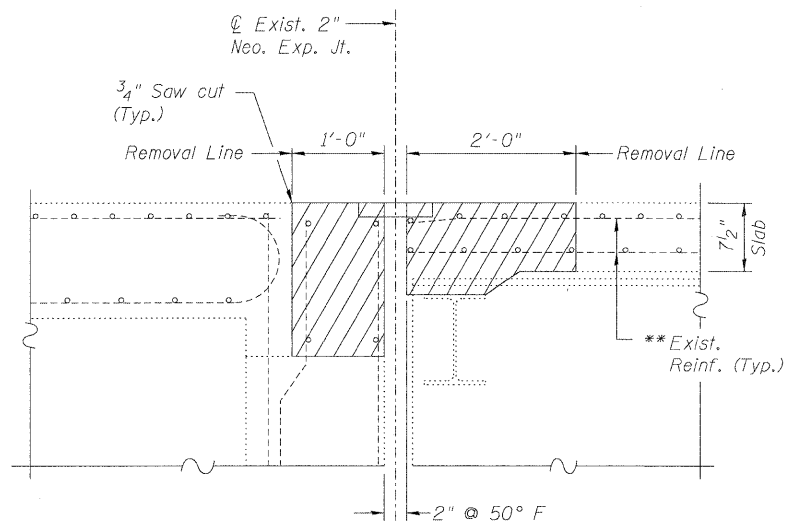
SECTION THRU PARAPET
(Horiz. Dimensions at Rt. L's.)



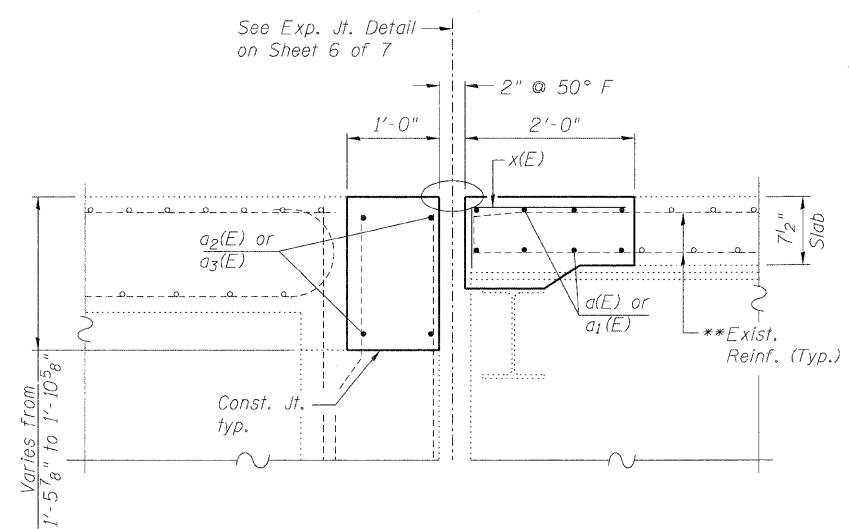
BAR d(E) **BAR d1(E)**
BAR x(E)

Notes:
Hatched areas indicate Concrete Removal.
Removal of the existing joint system is included with Concrete Removal.

** Existing reinforcement extending into removal area shall be cleaned, straightened (if required) and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.



SECTION A-A
(Dimensions at Rt. L's.)



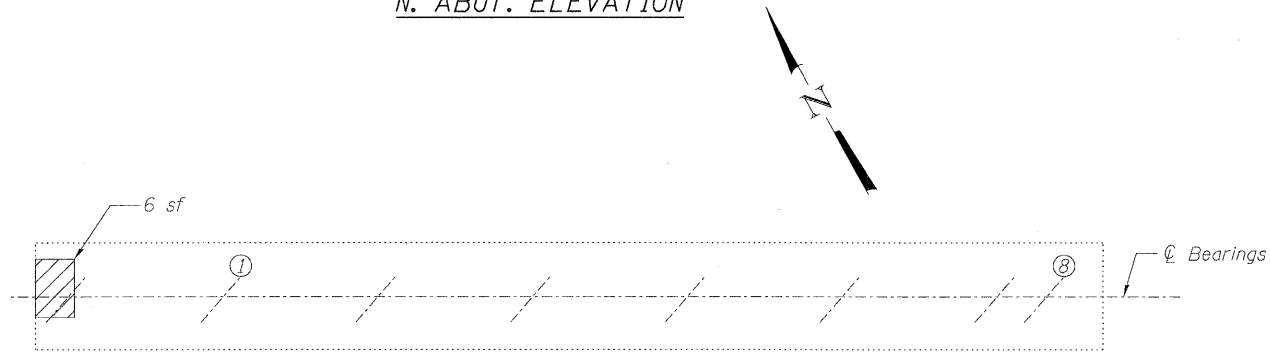
SECTION B-B
(Dimensions at Rt. L's.)

BILL OF MATERIAL
(Two Abutments)

Bar	No.	Size	Length	Shape
a(E)	16	#5	30'-5"	—
a1(E)	16	#5	25'-1"	—
a2(E)	8	#6	30'-5"	—
a3(E)	8	#6	25'-1"	—
d(E)	20	#5	5'-0"	┘
d1(E)	20	#5	3'-11"	┘
e(E)	28	#5	2'-2"	—
x(E)	72	#5	2'-2"	┘
Concrete Removal			Cu. Yd.	13.1
Concrete Superstructure			Cu. Yd.	13.1
Reinforcement Bars, Epoxy Coated			Pound	2010



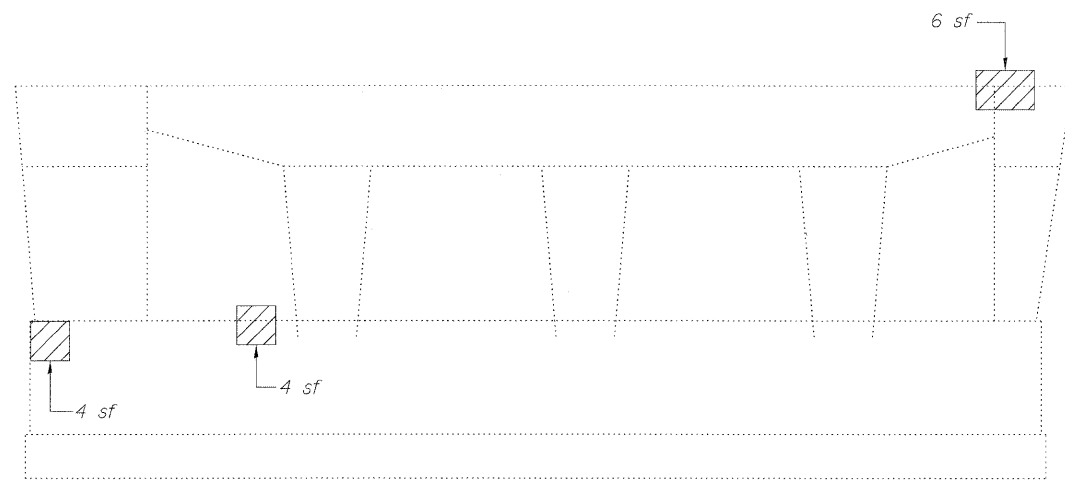
N. ABUT. ELEVATION



N. ABUT. TOP VIEW



PIER 3
(Looking North)



PIER 2
(Looking North)



PIER 3
(Looking South)

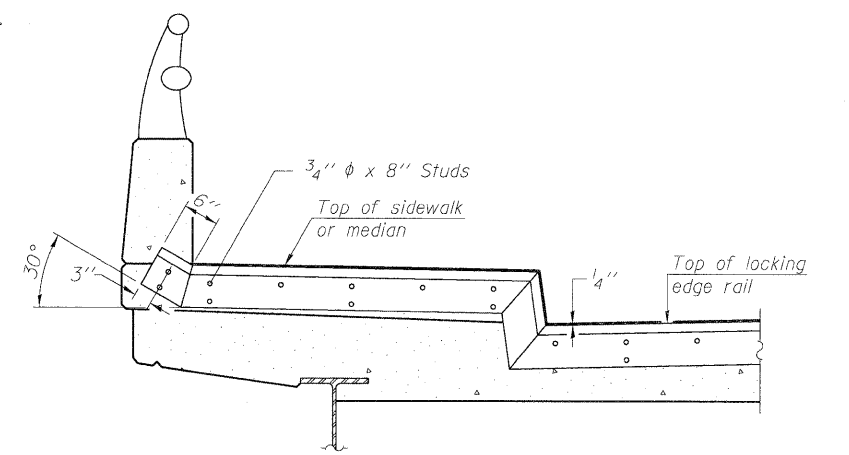
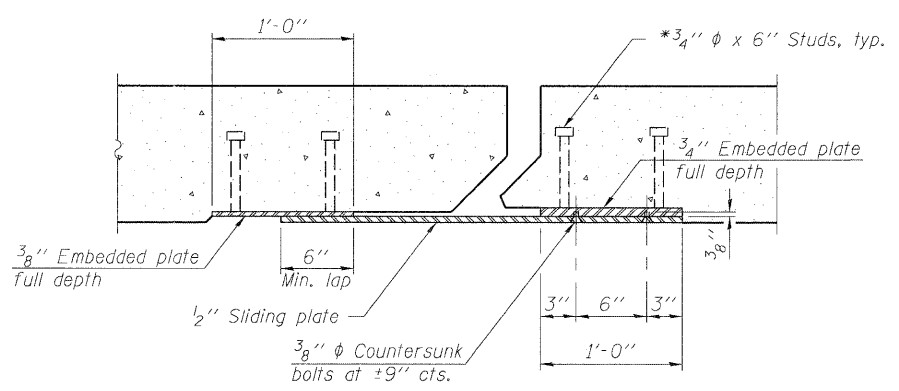
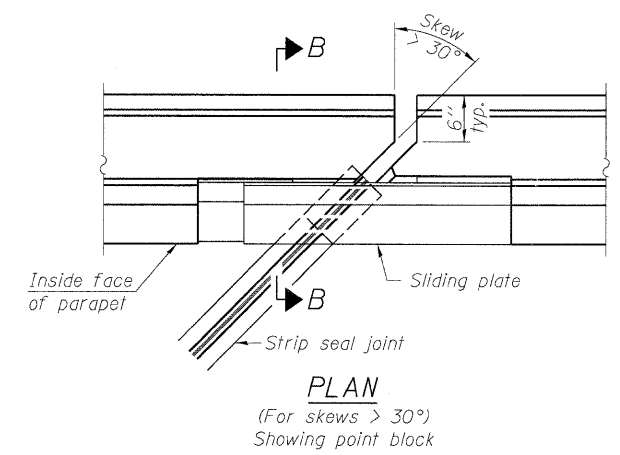
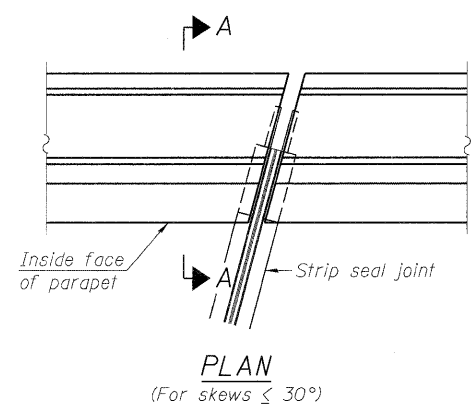
LEGEND

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

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

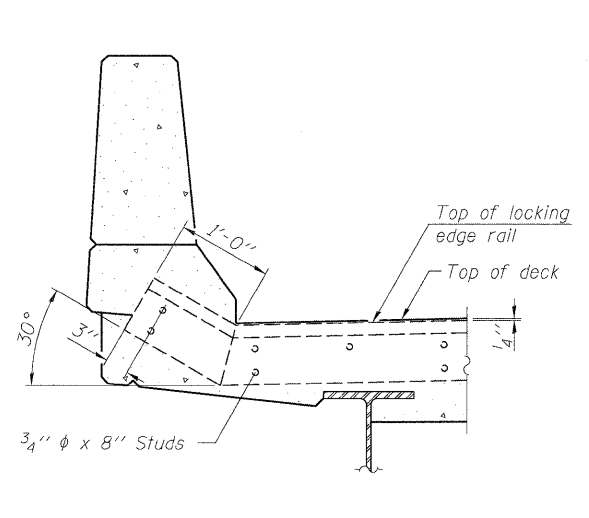
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth equal to or less than 5 in.)	Sq. Ft.	55

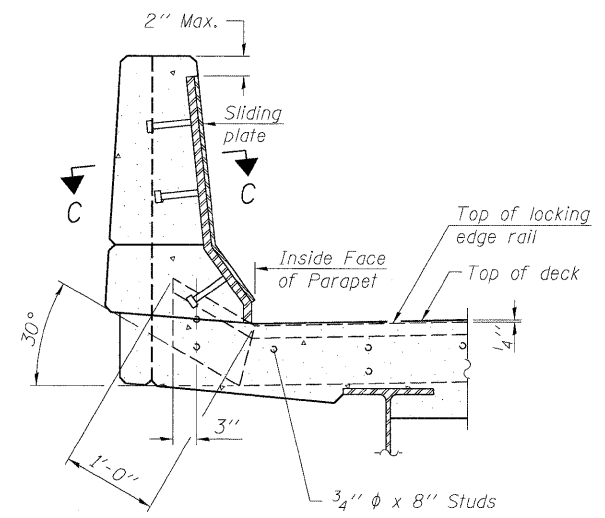


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

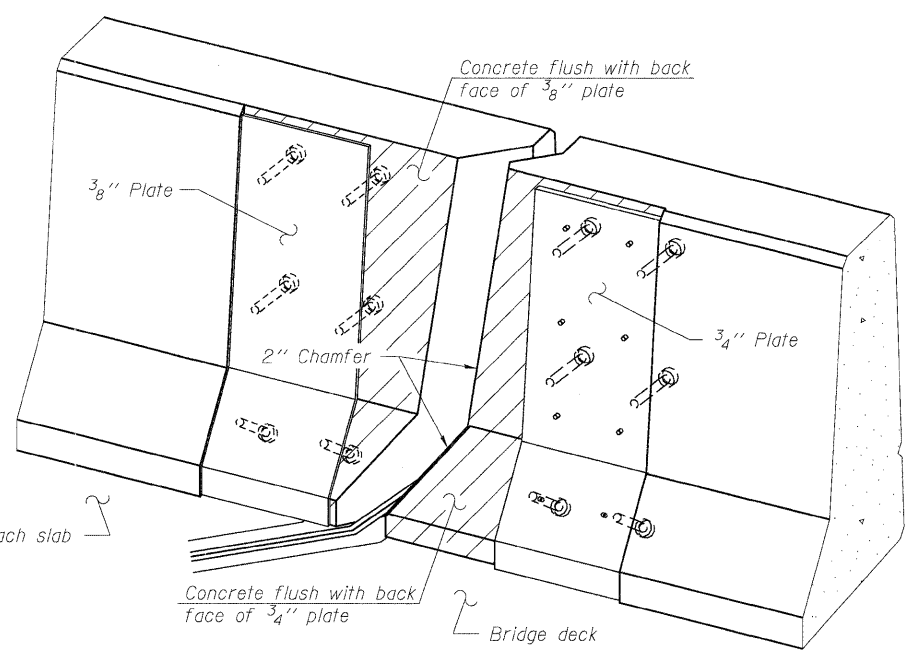
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A



SECTION B-B



TRIMETRIC VIEW (Showing back plates only)

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 conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

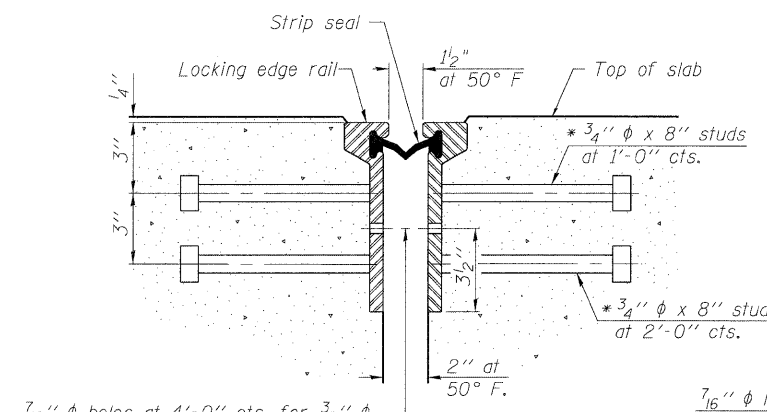
The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

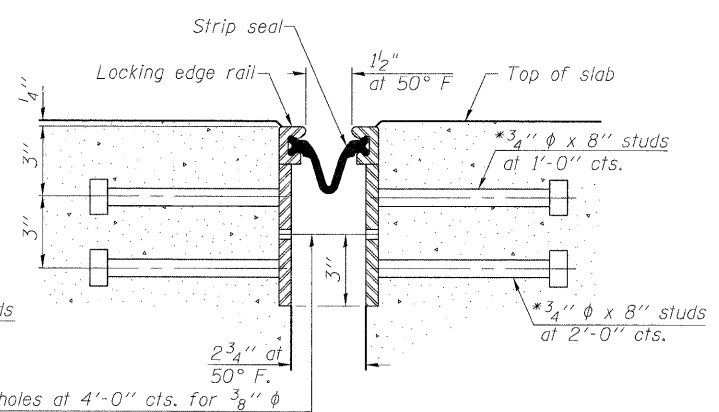
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.



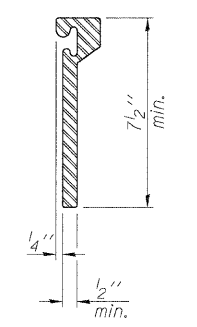
SECTION THRU ROLLED RAIL JOINT



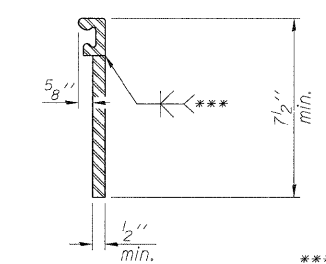
SECTION THRU WELDED RAIL JOINT

7/16" phi holes at 4'-0" cts. for 3/8" phi bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

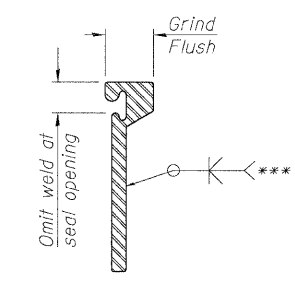
7/16" phi holes at 4'-0" cts. for 3/8" phi bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



ROLLED EXTRUDED RAIL



WELDED RAIL



LOCKING EDGE RAIL SPLICE

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

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

LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	112

EJ-SSJ

7-1-10

LE LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois

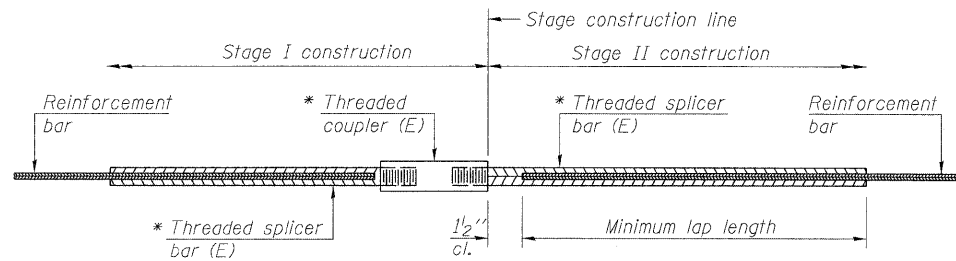
USER NAME =	DESIGNED - TBP	REVISED -
FILE NAME =	CHECKED - ADB	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - MTH	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 016-0218**

SHEET NO. 6 OF 7 SHEETS

F.A.P. RTE. 345	SECTION BR-1-RS-4	COUNTY COOK	TOTAL SHEETS 124	SHEET NO. 99
			CONTRACT NO. 60M46	
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY

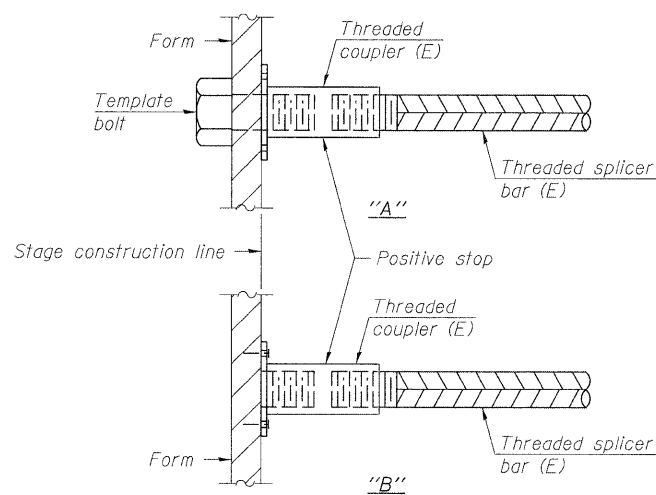
Bar size to be spliced	Minimum Lap Lengths				
	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

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

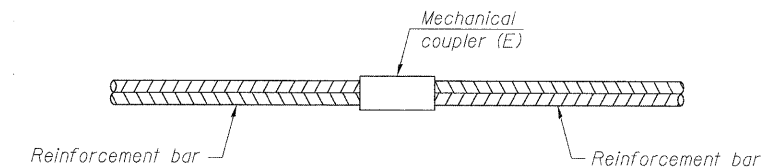
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	16	Table 3
Deck	#6	8	Table 3



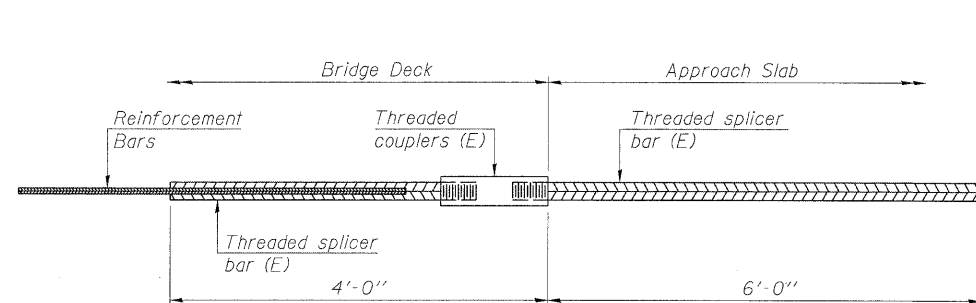
INSTALLATION AND SETTING METHODS

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



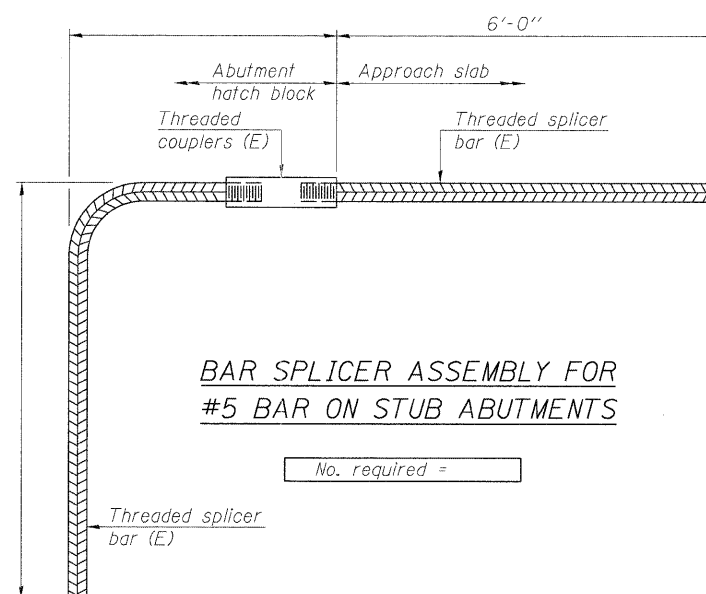
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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

BSD-1

7-1-10



USER NAME =	DESIGNED - TBP	REVISED -
FILE NAME =	CHECKED - ADB	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 016-0218

SHEET NO. 7 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-RS-4	COOK	124	100
CONTRACT NO. 60M46			ILLINOIS FED. AID PROJECT	