

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2020-176-BR	LAKE	30	1
		ILLINOIS	CONTRACT NO. 62M58	

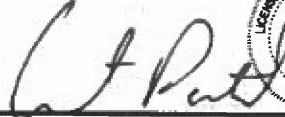

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

US ROUTE 41
FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL
POSTED SPEED: 55 MPH
ADT: 33,200 (2019)

PROPOSED
HIGHWAY PLANS



FAP 346 (US ROUTE 41) AT MILL CREEK
SECTION 2020-176-BR
PROJECT NO. NHPP-4GWB(520)
BRIDGE DECK OVERLAY AND JOINT REPAIR
LAKE COUNTY

APPLIES TO SHEETS 1-17

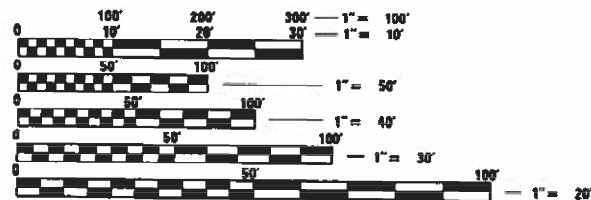
LICENSED CIVIL ENGINEER, STATE OF ILLINOIS
EXPIRES 11/30/2023

APPLIES TO SHEETS 18-25

LICENSED STRUCTURAL ENGINEER, STATE OF ILLINOIS
EXPIRES 11/30/2022

MUNICIPALITIES:
VILLAGE OF WADSWORTH



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

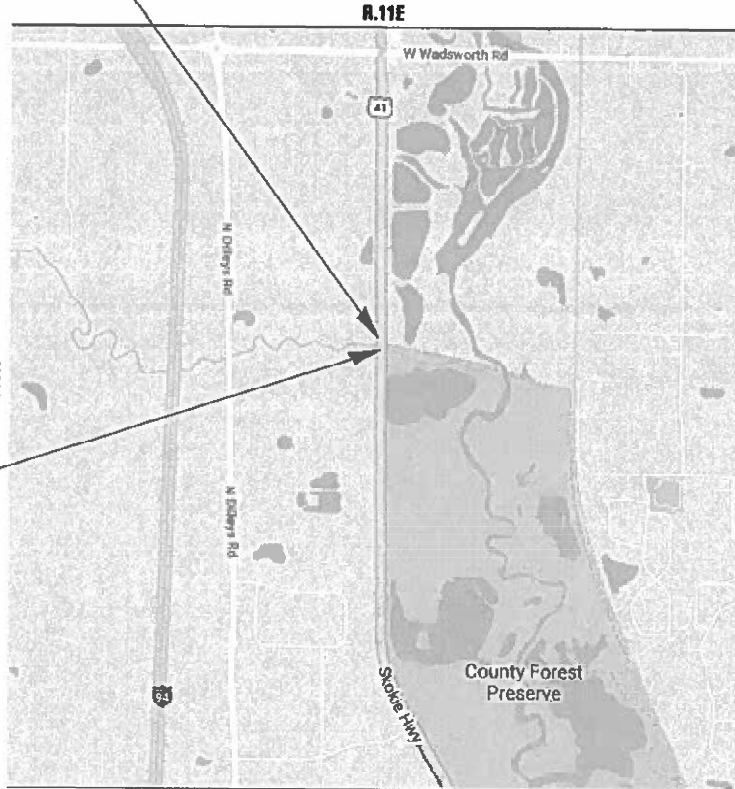
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

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

CONTRACT NO. 62M58

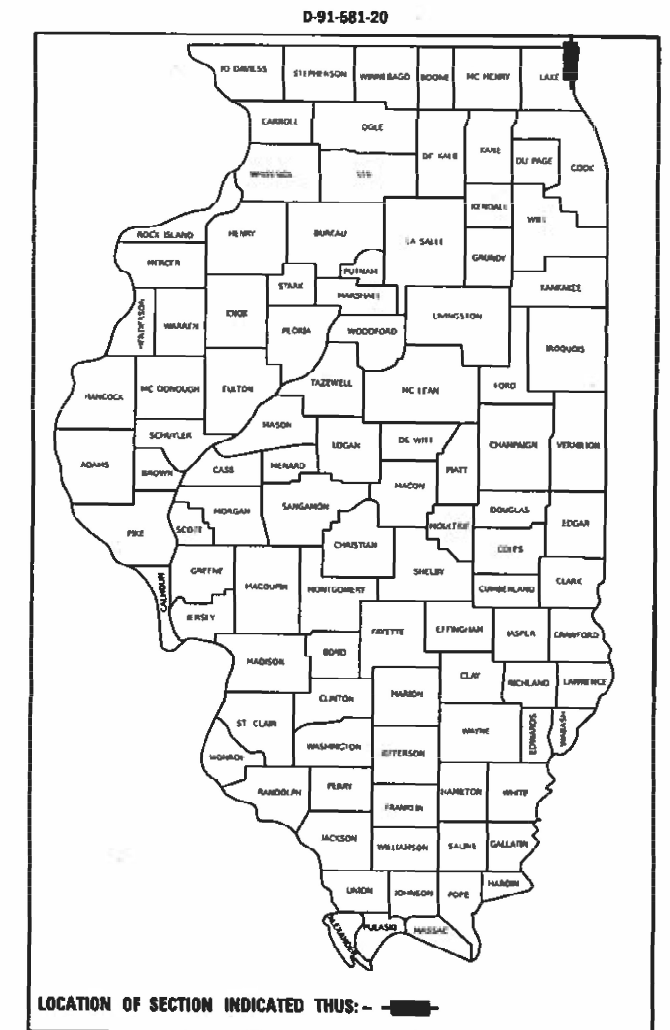
PROJECT LOCATION

C-91-380-20



NEWPORT TOWNSHIP

GROSS LENGTH = 1000 FT. = 0.19 MILE



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED JANUARY 28 20 22
Jose Luis Lopez
REGIONAL ENGINEER

March 25, 2022
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

March 25, 2022
Stephen M. Faria
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

Bowman
311 S. Wacker Drive, Suite 1950
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312-674-6380
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IDOT HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-10	PAVEMENT JOINTS
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
630111-01	WEAK POST GUARDRAIL ATTACHED TO CULVERT
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
642001-03	SHOULDER RUMBLE STRIPS, 16 IN.
701423-10	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS > 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ? 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS

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PLOT DATE = 12/28/2021		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND HIGHWAY STANDARDS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2020-176-BR	LAKE	30	2
CONTRACT NO. 62M58				
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

COMMITMENTS

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND LAKE COUNTY.
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. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
5. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
6. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
7. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS CONTRACT.
9. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
10. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
11. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, TRAFFIC FIELD ENGINEER, AT WALTER.CZARNY@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.
13. SAWING OF REMOVAL ITEMS AS NOTED ON THE PLANS, SPECIFIED IN THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.
14. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
15. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
16. THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM SEWER, WATER MAIN, SANITARY SEWER, AND OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE. AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE PER ARTICLES 105.07 AND 107.31 OF THE STANDARD SPECIFICATIONS. WHEN REQUIRED, LOCATING UTILITIES SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR EXPLORATION TRENCH, SPECIAL.
17. ANY SUBBASE GRANULAR MATERIAL CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR EXPENSE.
18. ALL TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL FOLLOW DISTRICT ONE STANDARD TC-13.
19. THE CONTRACTOR SHALL CONTACT THE IDOT ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171 AT LEAST TWO WEEKS PRIOR TO BEGINNING LANDSCAPE AND FORESTRY WORK.

20. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE PROVIDED TO PROTECT ROADWAY, ADJACENT PROPERTIES, AND WATER COURSES AS PER SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
21. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.

NONE

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PLOT DATE = 12/28/2021		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES AND COMMITMENTS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2020-176-BR	LAKE	30	3
CONTRACT NO. 62M58				
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE	
				URBAN	
				BRIDGE	CULVERT
				0059	0004
				SN 049-0028	SN 049-0184
20200100	EARTH EXCAVATION	CU YD	676	676	
25003210	INTERSEEDING, CLASS 2A	ACRE	0.1	0.1	
28000400	PERIMETER EROSION BARRIER	FOOT	1,166	1,166	
28000510	INLET FILTERS	EACH	14	14	
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	10.0		10.0
28200200	FILTER FABRIC	SQ YD	10.0		10.0
31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	68	68	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	3,157	3,157	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,148	1,148	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	374	374	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1,823	1,823	
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	326	326	
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	96	96	
50102400	CONCRETE REMOVAL	CU YD	0.5	0.5	
50104000	BRIDGE RAIL REMOVAL	FOOT	114	114	

* SPECIALTY ITEMS

MODEL: D:\ch\1
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PLOT DATE = 12/28/2021	DATE - 12/28/2021	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2020-176-BR	LAKE	30	4
CONTRACT NO. 62M58				
ILLINOIS		FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE	
				URBAN	
				BRIDGE	CULVERT
				0059	0004
				SN 049-0028	SN 049-0184
50300255	CONCRETE SUPERSTRUCTURE	CU YD	0.5	0.5	
50300300	PROTECTIVE COAT	SQ YD	487	487	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	20	20	
58700300	CONCRETE SEALER	SQ FT	663	663	
60108104	PIPE UNDERDRAINS, TYPE 1, 4"	FOOT	2,243	2,243	
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	2	2	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	425	425	
* 63000053	WEAK POST GUARDRAIL ATTACHED TO CULVERT CASE IV	FOOT	125	125	
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	
* 63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1	1	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1	
63200310	GUARDRAIL REMOVAL	FOOT	558	558	
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	1,879	1,879	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	540	540	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2	

* SPECIALTY ITEMS

MODEL: D:\h\h\...
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 FILE NAME: P:\03038...

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		PLOT DATE = 12/28/2021	CHECKED - AP	REVISED -
			DATE - 12/28/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2020-176-BR	LAKE	30	5
CONTRACT NO. 62M58				
ILLINOIS		FED. AID PROJECT		

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	80% FED 20% STATE
				BRIDGE	CULVERT
				0059	0004
				SN 049-0028	SN 049-0184
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	5	5	
67100100	MOBILIZATION	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	50	50	
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	25,851	25,851	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,625	1,625	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,725	1,725	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	9,493	9,493	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	289	289	
* 78004620	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 4"	FOOT	24	24	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	192	192	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	136	136	

* SPECIALTY ITEMS



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	DATE - 12/28/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE: NONE	SHEET 3	OF 5 SHEETS	STA. TO STA.

F.A.P. RTE. 346	SECTION 2020-176-BR	COUNTY LAKE	TOTAL SHEETS 30	SHEET NO. 6
CONTRACT NO. 62M58			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	CONSTRUCTION CODE			
		UNIT	TOTAL QUANTITY	URBAN	80% FED 20% STATE
				BRIDGE 0059 SN 049-0028	CULVERT 0004 SN 049-0184
X0326766	CLEAN & RESEAL RELIEF JOINT	FOOT	202.0	202.0	
X4404400	PAVEMENT REMOVAL (SPECIAL)	SQ YD	3,277	3,277	
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	455	455	
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
78300202	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	7,915	7,915	
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	108	108	
Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SQ YD	13.7	13.7	
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	54.4	54.4	
Z0006016	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4 INCHES	SQ YD	486	486	
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	486	486	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	69.0	37.0	32.0
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	15.0	15.0	
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	0.5	0.5	

* SPECIALTY ITEMS

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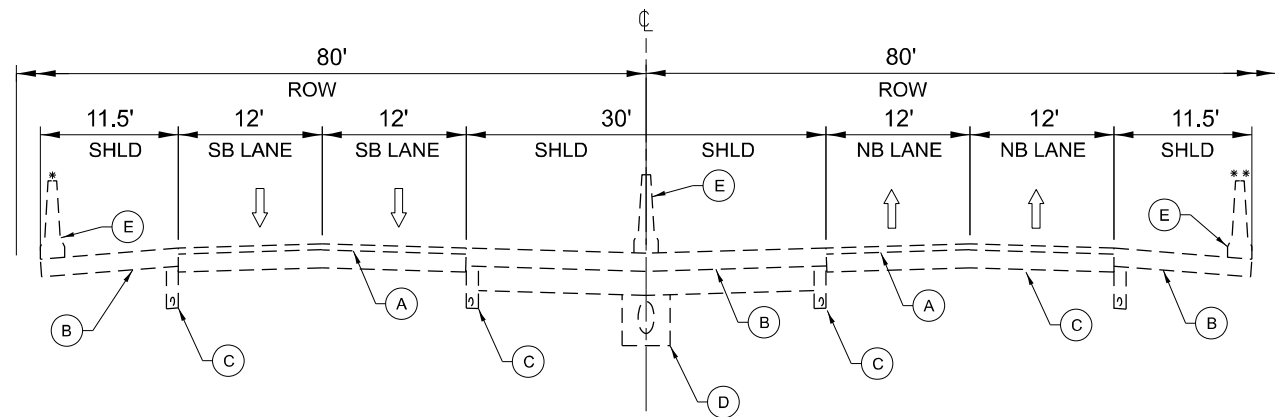
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	PLOT SCALE = 2.0000" / in. PLOT DATE = 12/28/2021	SCALE: NONE SHEET 4 OF 5 SHEETS STA. TO STA.				

		CONSTRUCTION CODE			
		URBAN	80% FED 20% STATE		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE	CULVERT
				0059	0004
				SN 049-0028	SN 049-0184
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	1.0	1.0	
<input type="checkbox"/> Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	2	2	
Z0021902	SILICONE JOINT SEALER, 1/2"	FOOT	205	205	
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	455	455	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	62	62	
Z0041895	POLYMER CONCRETE	CU FT	15.1	15.1	
* Z0049100	RAISED PAVEMENT MARKER REFLECTOR REPLACEMENT	EACH	108	108	
Z0064800	SELECTIVE CLEARING	UNIT	50	50	
∅ Z0076600	TRAINEES	HOUR	500	500	
∅ Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500	

∅0042

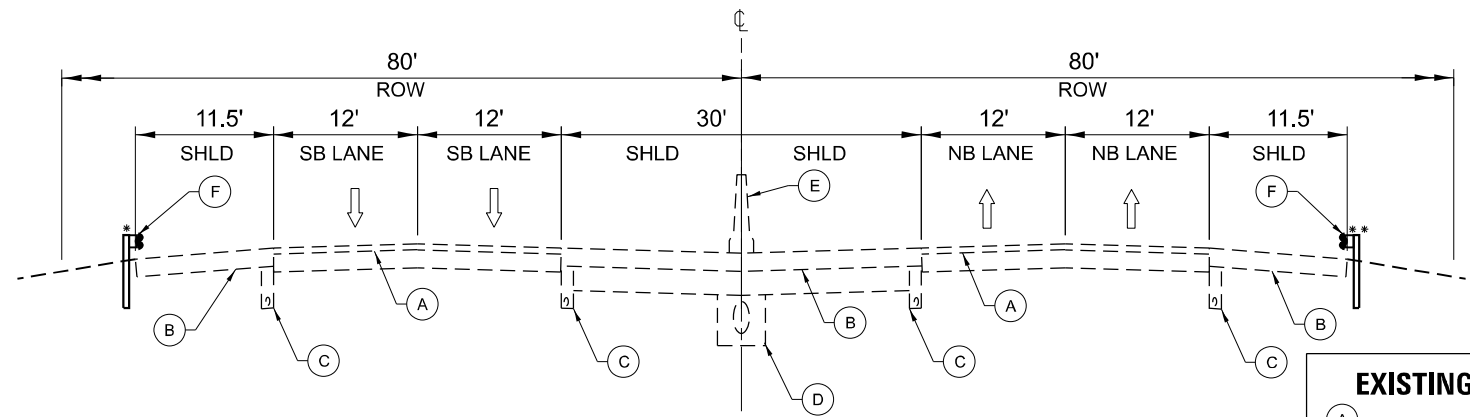
NON-PART 100% STATE * SPECIALTY ITEMS

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				<small>SCALE: NONE SHEET 5 OF 5 SHEETS STA. TO STA.</small>	<small>ILLINOIS FED. AID PROJECT</small>		<small>CONTRACT NO. 62M58</small>		



EXISTING TYPICAL SECTION - US ROUTE 41

STA 307+17 TO STA 307+63
 * STA 307+09 TO STA 307+55
 * STA 307+24 TO STA 307+71

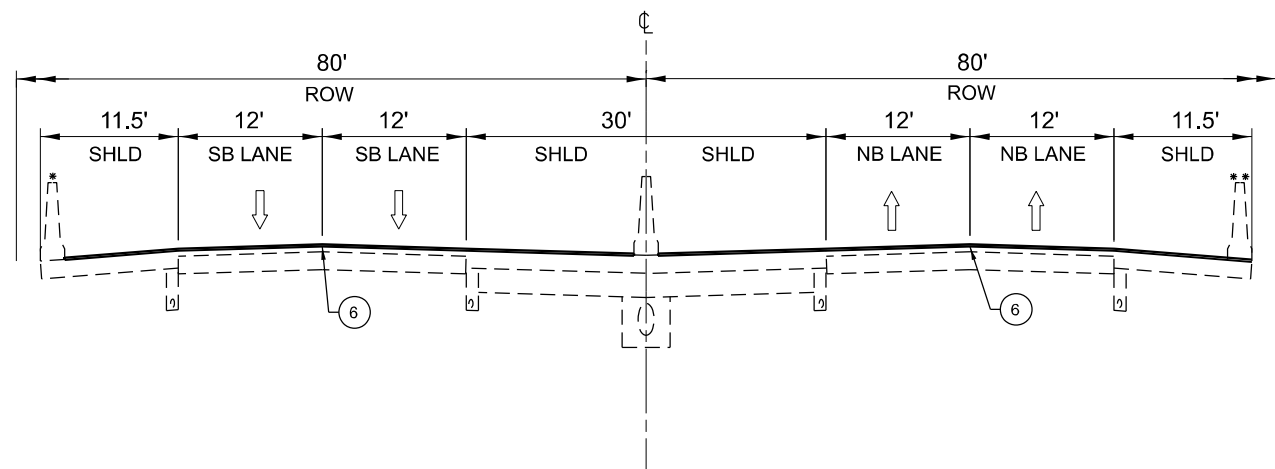


EXISTING TYPICAL SECTION - US ROUTE 41

STA 307+63 TO STA 312+87
 * STA 307+55 TO STA 309+11
 * STA 307+71 TO STA 312+87

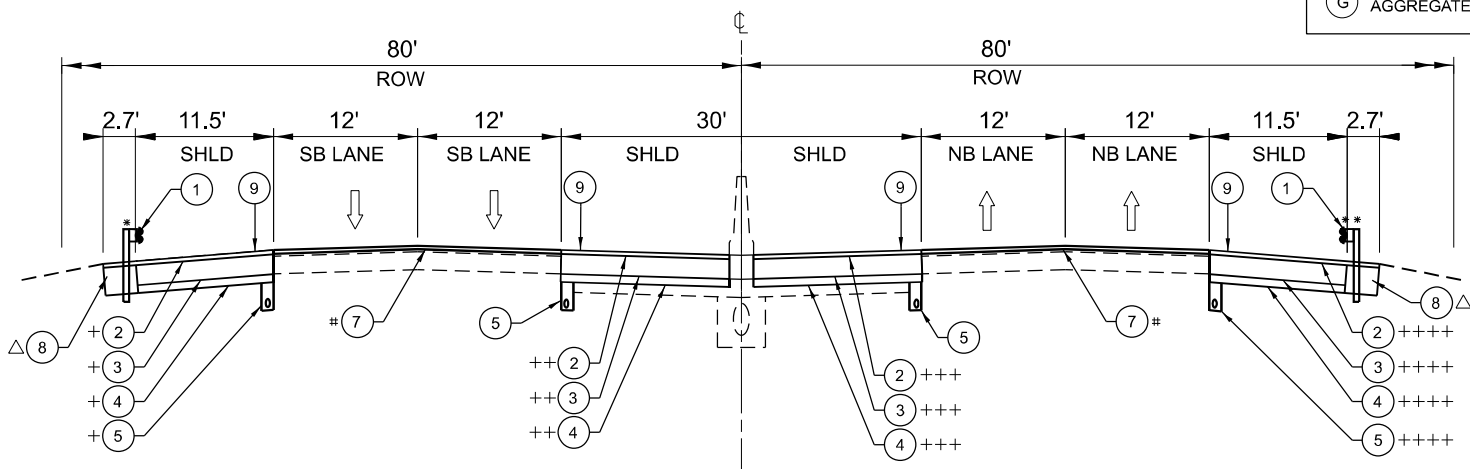
EXISTING LEGEND

- (A) HMA PAVEMENT (VAR.)
- (B) HMA SHOULDER (8")
- (C) PIPE UNDERDRAIN
- (D) STORM SEWER
- (E) CONCRETE BARRIER
- (F) GUARDRAIL
- (G) AGGREGATE SUBGRADE (12")



PROPOSED TYPICAL SECTION - US ROUTE 41

STA 307+09 TO STA 307+71
 * STA 307+09 TO STA 307+55
 * STA 307+24 TO STA 307+71



PROPOSED TYPICAL SECTION - US ROUTE 41

STA 304+13 TO STA 306+52 AND STA 308+34 TO STA 313+17
 * STA 307+55 TO STA 309+07
 * STA 307+71 TO STA 312+87

△ STA 307+55 TO STA 308+19 AND STA 308+81 TO STA 309+07
 △△ STA 307+71 TO STA 308+20 AND STA 308+82 TO STA 313+17
 + STA 304+77 TO STA 306+46 AND STA 308+28 TO STA 311+15
 ++ STA 304+77 TO STA 306+46 AND STA 308+28 TO STA 311+15
 +++ STA 304+18 TO STA 306+52 AND STA 308+34 TO STA 310+80
 ++++ STA 304+13 TO STA 306+52 AND STA 308+34 TO STA 310+52
 # SEE ROADWAY AND STRUCTURAL REPAIRS AND OVERLAY PLANS FOR LIMITS
 GUARDRAIL CONNECTED TO HEADWALL FROM STA 308+19 TO STA 308+76

PROPOSED LEGEND

- (1) PROPOSED GUARDRAIL
- (2) 1-3/4" HMA SURFACE COURSE, MIX "D", IL-9.5, N70 (40604062)
- (3) 10-1/4" HMA BINDER COURSE, IL-19.0, N70 (40603085)
- (4) 4" SUBBASE GRANULAR MATERIAL, TYPE B (31101200)
- (5) PIPE UNDERDRAINS, TYPE 1, 4" (60108104)
- (6) BRIDGE DECK SCARIFICATION AND BRIDGE DECK LATEX CONCRETE OVERLAY (SEE STRUCTURAL PLANS)
- (7) 1-3/4" POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "E", N70 (40604172)
- (8) 14-1/4" SUBBASE GRANULAR MATERIAL, TYPE B (31101100)
- (9) SHOULDER RUMBLE STRIPS, 16 INCH (64200116)

HMA MIX REQUIREMENTS TABLE		
MIXTURE TYPE	AIR VOIDS @ NDES	QMP
SHOULDER RECONSTRUCTION - TYPE A		
1-3/4" HOT-MIX ASPHALT SURFACE COURSE, MIX D, IL-9.5, N70	4% @ 70 GYR.	QC/QA
10-1/4" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	QC/QA
SHOULDER RECONSTRUCTION - TYPE B		
1-3/4" HOT-MIX ASPHALT SURFACE COURSE, MIX D, IL-9.5, N70	4% @ 70 GYR.	QC/QA
12" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	QC/QA
GUARDRAIL HMA STABILIZATION		
1-3/4" HOT-MIX ASPHALT SURFACE COURSE, MIX D, IL-9.5, N70	4% @ 70 GYR.	QC/QA
HMA OVERLAY (& BUTT JOINT) - TYPE 1		
1-3/4" POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	4% @ 70 GYR.	QC/QA
HMA OVERLAY - TYPE 2		
1-3/4" HOT-MIX ASPHALT SURFACE COURSE, MIX D, IL-9.5, N70	4% @ 70 GYR.	QC/QA
VARIABLE DEPTH HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	QC/QA

QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)

EARTH EXCAVATION SCHEDULE (20200100)			
LOCATION	BEGIN STA.	END STA.	VOLUME (CU YD)
SB INSIDE SHOULDER REMOVAL	304+47	306+81	71
SB INSIDE SHOULDER REMOVAL	307+93	311+15	97
SB OUTSIDE SHOULDER REMOVAL	304+77	306+99	56
SB OUTSIDE SHOULDER REMOVAL	307+69	311+15	86
SB OUTSIDE SHOULDER STABILIZATION	307+55	308+19	9
SB OUTSIDE SHOULDER STABILIZATION	308+81	309+07	4
NB INSIDE SHOULDER REMOVAL	304+18	306+81	79
NB INSIDE SHOULDER REMOVAL	307+99	310+80	85
NB OUTSIDE SHOULDER REMOVAL	304+13	307+11	75
NB OUTSIDE SHOULDER REMOVAL	307+81	310+52	68
NB OUTSIDE SHOULDER STABILIZATION	307+71	308+20	7
NB OUTSIDE SHOULDER STABILIZATION	308+82	309+07	4
* NB OUTSIDE SHOULDER STABILIZATION	309+07	313+17	35

7" EXCAVATION DEPTH IN AREAS OF SHOULDER REMOVAL
 16" EXCAVATION DEPTH IN AREAS OF OUTSIDE SHOULDER STABILIZATION
 * EXISTING STABILIZATION AT THIS LOCATION, 10" EXCAVATION DEPTH PROPOSED

PIPE UNDERDRAINS, TYPE 1, 4" SCHEDULE (60108104)			
LOCATION	BEGIN STA.	END STA.	LENGTH (FOOT)
NB EAST SHOULDER	304+13	307+11	298
NB WEST SHOULDER	304+18	306+87	269
SB EAST SHOULDER	304+47	306+81	234
SB WEST SHOULDER	304+77	306+99	222
NB EAST SHOULDER	307+81	310+52	271
NB WEST SHOULDER	307+99	310+80	281
SB EAST SHOULDER	307+93	311+15	322
SB WEST SHOULDER	307+69	311+15	346

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USER NAME = apatel
 DESIGNED - MT
 DRAWN - KM
 CHECKED - AP
 DATE - 12/28/2021

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**TYPICAL SECTIONS
 US 41**

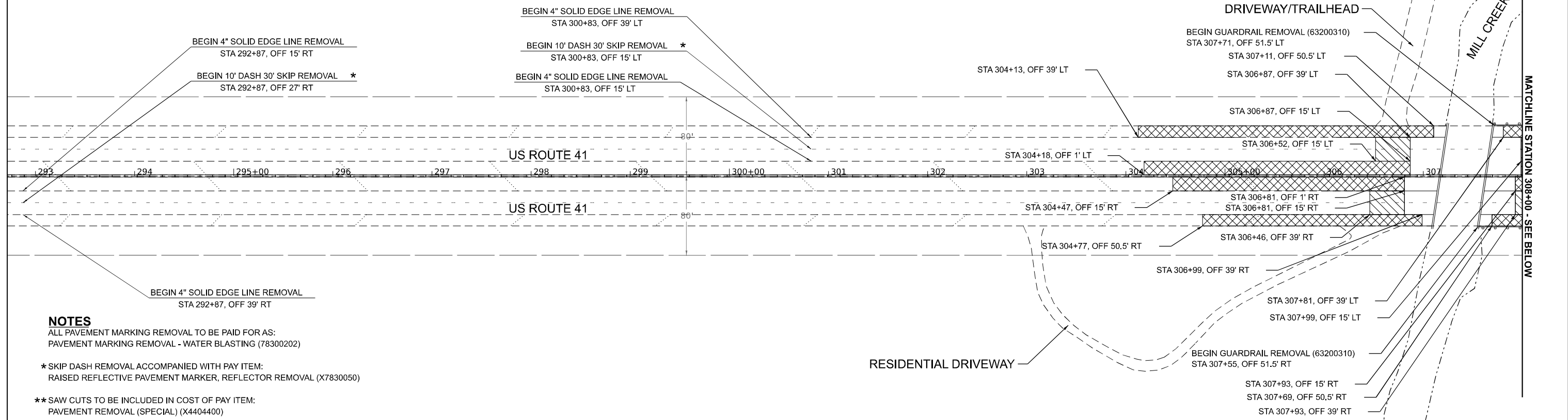
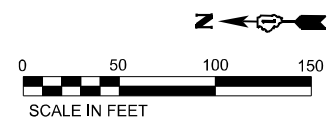
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2020-176-BR	LAKE	30	9

CONTRACT NO. 62M58
 ILLINOIS FED. AID PROJECT

REMOVAL LEGEND

-  PAVEMENT REMOVAL (SPECIAL) (X4404400) **
-  HMA REMOVAL BUTT JOINT (40600982)

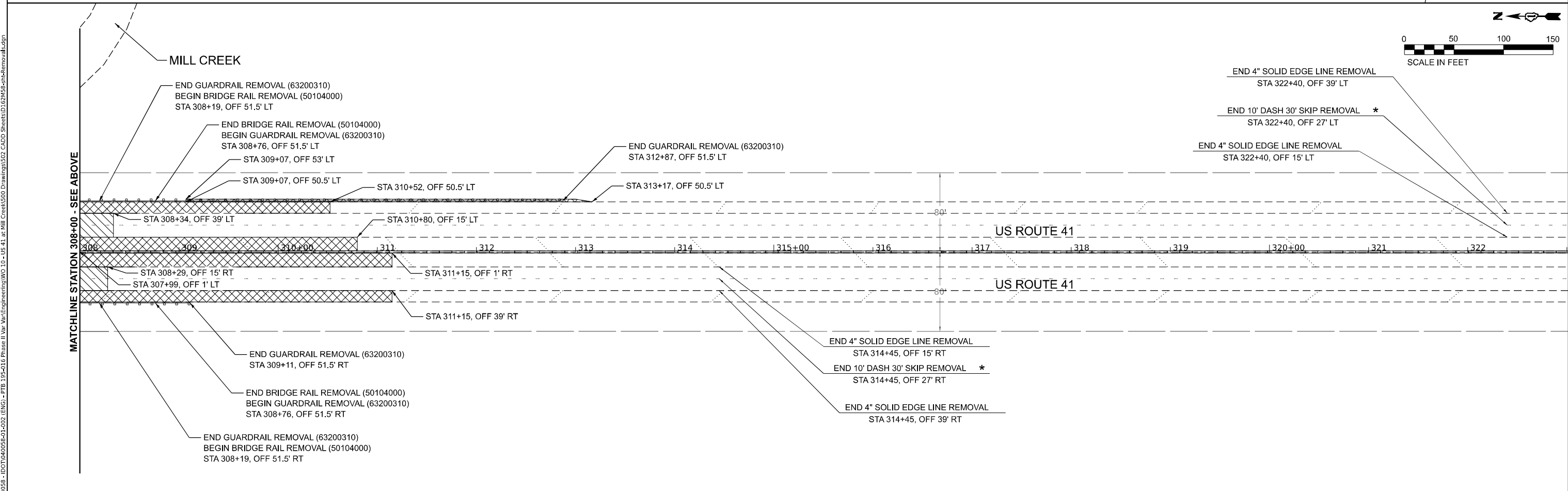


NOTES

ALL PAVEMENT MARKING REMOVAL TO BE PAID FOR AS:
PAVEMENT MARKING REMOVAL - WATER BLASTING (78300202)

* SKIP DASH REMOVAL ACCOMPANIED WITH PAY ITEM:
RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL (X7830050)

** SAW CUTS TO BE INCLUDED IN COST OF PAY ITEM:
PAVEMENT REMOVAL (SPECIAL) (X4404400)



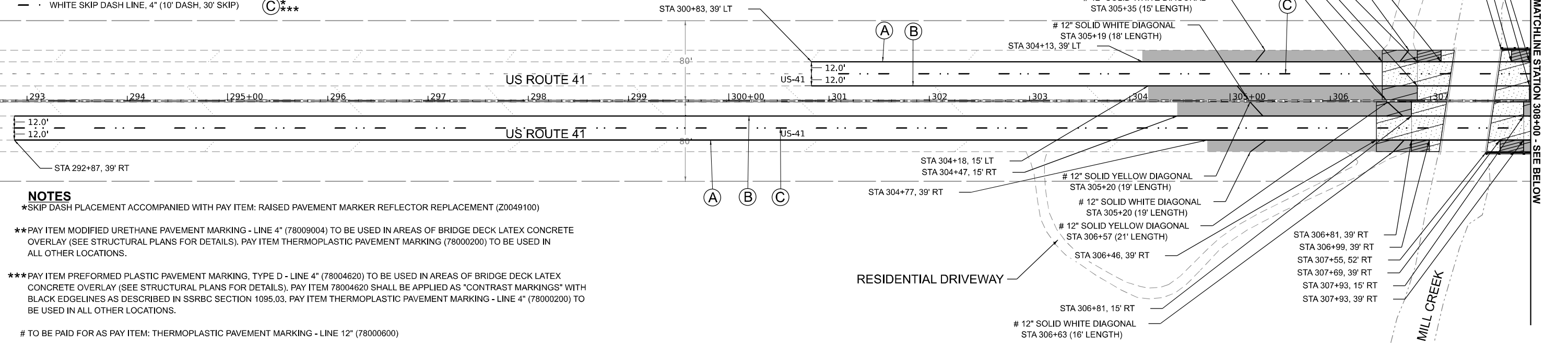
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	PLOT DATE = 12/28/2021	DATE = 12/28/2021	REVISED -						ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 292+70 TO STA. 323+00

ROADWAY AND PAVEMENT MARKING LEGEND

- SHOULDER RECONSTRUCTION - TYPE A
- SHOULDER RECONSTRUCTION - TYPE B
- GUARDRAIL HMA STABILIZATION
- HMA OVERLAY (& BUTT JOINT) - TYPE 1
- HMA OVERLAY - TYPE 2
- PROPOSED GUARDRAIL
- SOLID WHITE EDGE LINE, 4" (A)**
- SOLID YELLOW EDGE LINE, 4" (B)**
- WHITE SKIP DASH LINE, 4" (10' DASH, 30' SKIP) (C)**

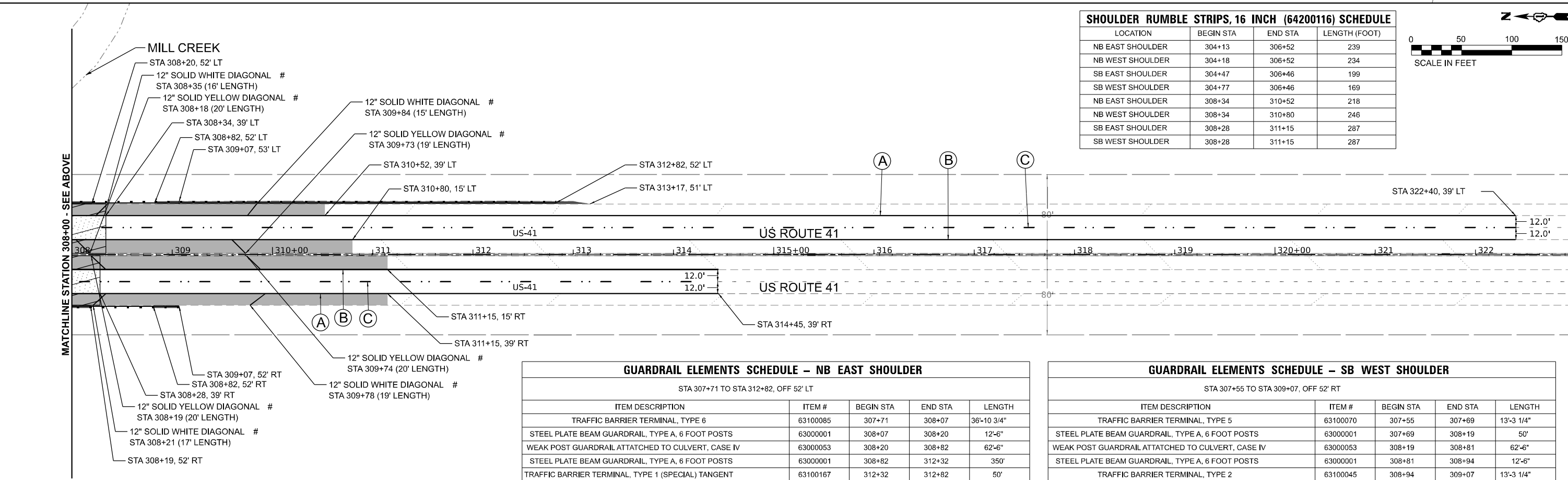
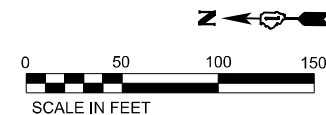


NOTES

- *SKIP DASH PLACEMENT ACCOMPANIED WITH PAY ITEM: RAISED PAVEMENT MARKER REFLECTOR REPLACEMENT (Z0049100)
- **PAY ITEM MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (78009004) TO BE USED IN AREAS OF BRIDGE DECK LATEX CONCRETE OVERLAY (SEE STRUCTURAL PLANS FOR DETAILS). PAY ITEM THERMOPLASTIC PAVEMENT MARKING (78000200) TO BE USED IN ALL OTHER LOCATIONS.
- ***PAY ITEM PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 4" (78004620) TO BE USED IN AREAS OF BRIDGE DECK LATEX CONCRETE OVERLAY (SEE STRUCTURAL PLANS FOR DETAILS). PAY ITEM 78004620 SHALL BE APPLIED AS "CONTRAST MARKINGS" WITH BLACK EDGELINES AS DESCRIBED IN SSRBC SECTION 1095.03. PAY ITEM THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) TO BE USED IN ALL OTHER LOCATIONS.
- # TO BE PAID FOR AS PAY ITEM: THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600)

SHOULDER RUMBLE STRIPS, 16 INCH (64200116) SCHEDULE

LOCATION	BEGIN STA	END STA	LENGTH (FOOT)
NB EAST SHOULDER	304+13	306+52	239
NB WEST SHOULDER	304+18	306+52	234
SB EAST SHOULDER	304+47	306+46	199
SB WEST SHOULDER	304+77	306+46	169
NB EAST SHOULDER	308+34	310+52	218
NB WEST SHOULDER	308+34	310+80	246
SB EAST SHOULDER	308+28	311+15	287
SB WEST SHOULDER	308+28	311+15	287



GUARDRAIL ELEMENTS SCHEDULE - NB EAST SHOULDER

STA 307+71 TO STA 312+82, OFF 52' LT				
ITEM DESCRIPTION	ITEM #	BEGIN STA	END STA	LENGTH
TRAFFIC BARRIER TERMINAL, TYPE 6	63100085	307+71	308+07	36'-10 3/4"
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	63000001	308+07	308+20	12'-6"
WEAK POST GUARDRAIL ATTACHED TO CULVERT, CASE IV	63000053	308+20	308+82	62'-6"
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	63000001	308+82	312+32	350'
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	63100167	312+32	312+82	50'

GUARDRAIL ELEMENTS SCHEDULE - SB WEST SHOULDER

STA 307+55 TO STA 309+07, OFF 52' RT				
ITEM DESCRIPTION	ITEM #	BEGIN STA	END STA	LENGTH
TRAFFIC BARRIER TERMINAL, TYPE 5	63100070	307+55	307+69	13'-3 1/4"
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	63000001	307+69	308+19	50'
WEAK POST GUARDRAIL ATTACHED TO CULVERT, CASE IV	63000053	308+19	308+81	62'-6"
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	63000001	308+81	308+94	12'-6"
TRAFFIC BARRIER TERMINAL, TYPE 2	63100045	308+94	309+07	13'-3 1/4"

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 DESIGNED - MT
 DRAWN - KM
 CHECKED - AP
 DATE - 12/28/2021
 PLOT SCALE = 0.1666667 / in.
 PLOT DATE = 12/28/2021

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STATE OF ILLINOIS
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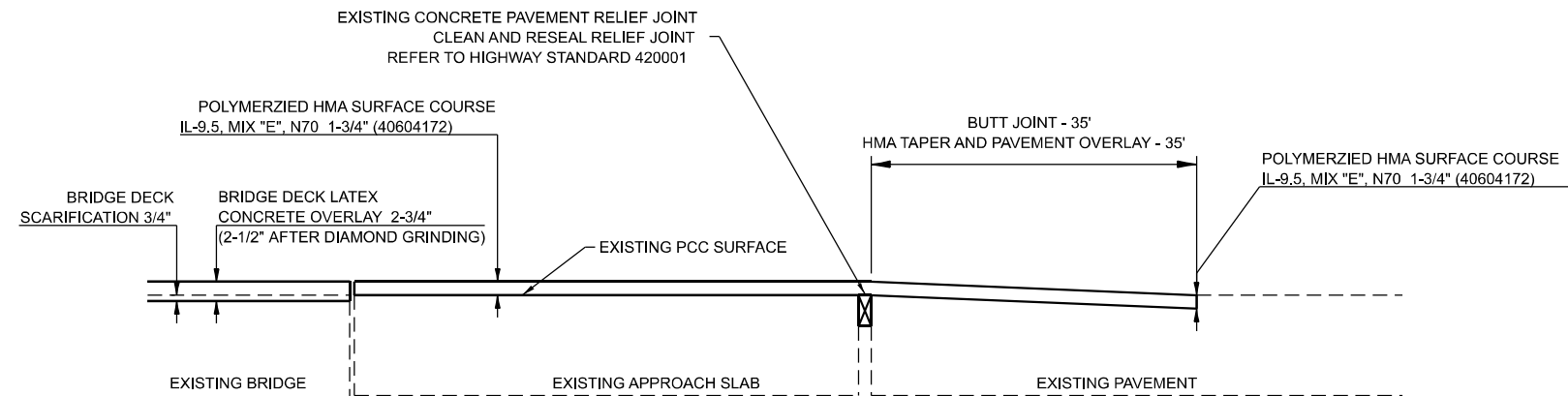
PROPOSED ROADWAY AND PAVEMENT MARKING PLAN
 US-41

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 292+70 TO STA. 323+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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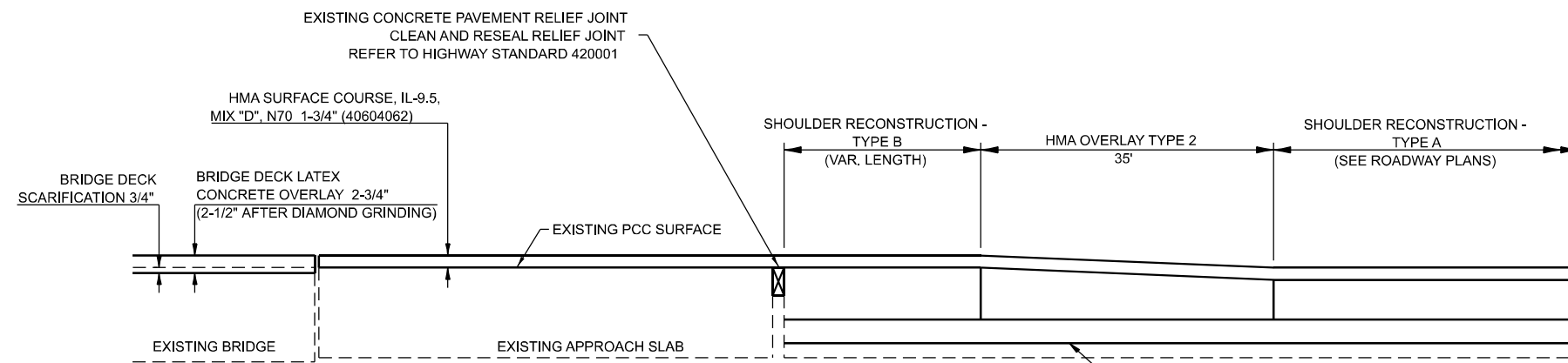
CONTRACT NO. 62M58

ILLINOIS FED. AID PROJECT



HMA OVERLAY AND BUTT JOINT DETAIL – TYPE 1

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



HMA OVERLAY DETAIL – TYPE 2

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

SUBBASE GRANULAR MATERIAL, TYPE B 4" (31101200)

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

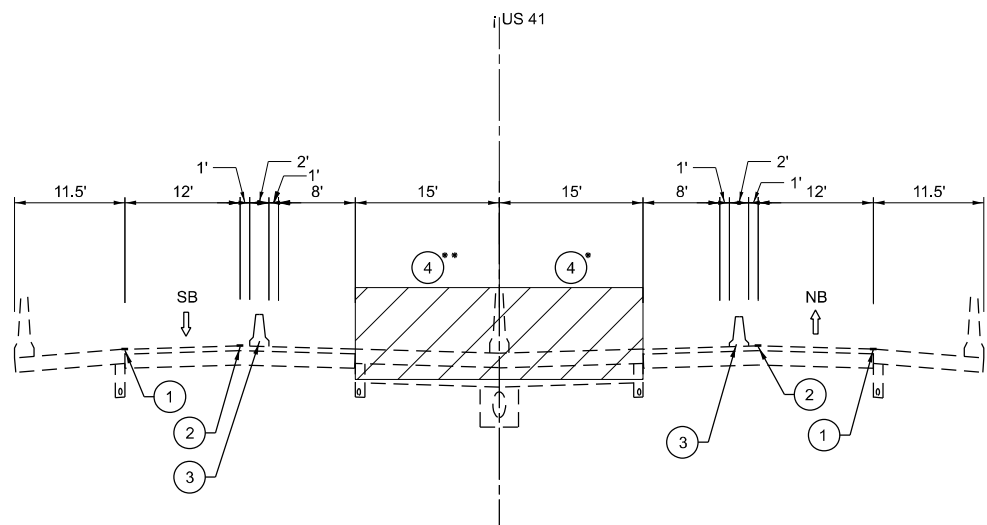
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HMA OVERLAY AND BUTT JOINT DETAILS
US 41**

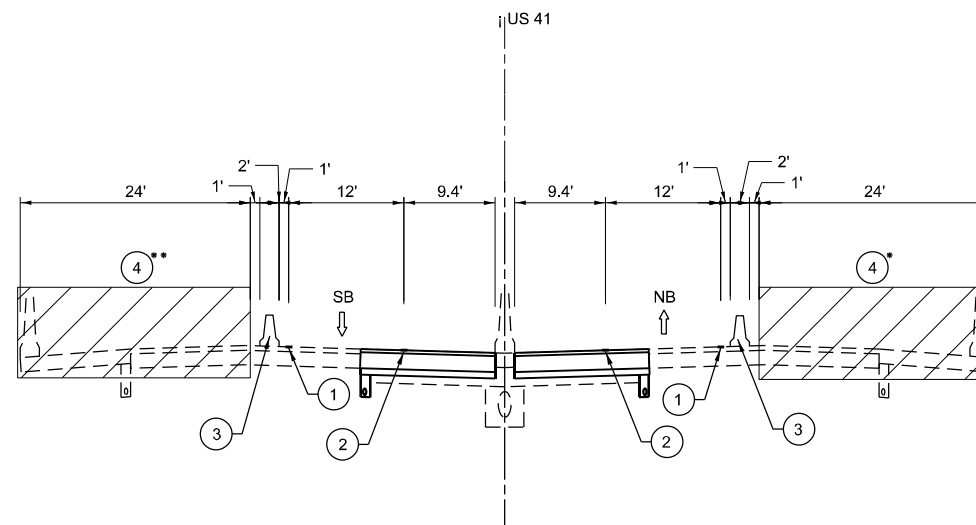
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CONTRACT NO. 62M58				
ILLINOIS FED. AID PROJECT				



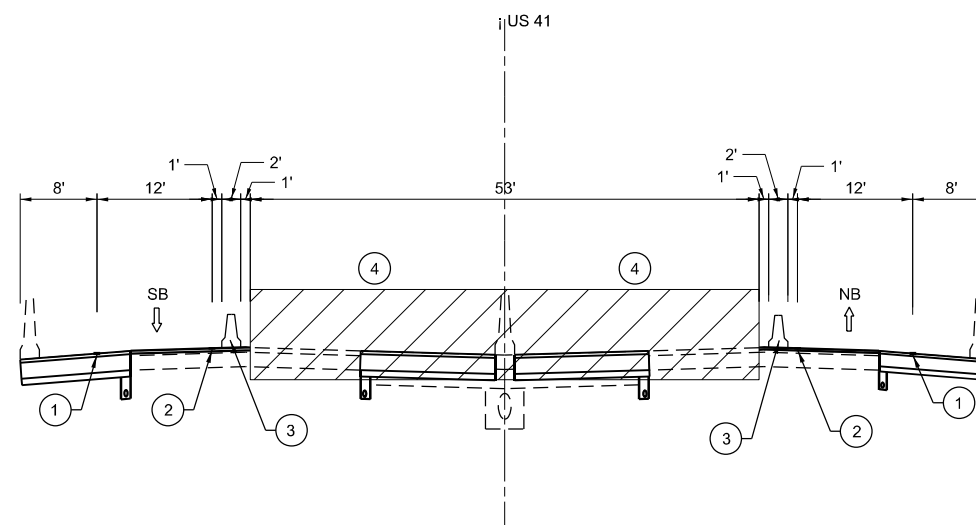
PRE-STAGE

STA. 304+47 TO STA. 306+81 AND STA. 307+99 TO STA. 310+90
 *STA. 304+18 TO STA. 306+87 AND STA. 307+99 TO STA. 310+80
 **STA. 304+47 TO STA. 306+81 AND STA. 307+93 TO STA. 311+15



STAGE 1

STA. 306+52 TO STA. 308+81
 *STA. 306+52 TO STA. 308+81
 **STA. 306+46 TO STA. 308+81
 WORK ZONE WIDTHS VARY - SEE MOT STAGE 1 PLAN FOR DETAILS



STAGE 2

STA. 306+46 TO STA. 308+81

STAGING NOTES

CONSTRUCTION WORK ZONE SPEED LIMIT = 45 M.P.H.

PRE-STAGE - US ROUTE 41 SHOULDER RECONSTRUCTION

- DROP INSIDE LANES IN BOTH NORTHBOUND AND SOUTHBOUND DIRECTIONS.
- PROPOSED INSIDE SHOULDER RECONSTRUCTION AS SHOWN ON PLANS TO BE UTILIZED FOR STAGE 1 OF MOT SCHEME.
- OMIT ANY WORK INVOLVING BRIDGE DECK OR HMA OVERLAY/BUTT JOINT IN THIS STAGE.

STAGE 1 - BRIDGE REPAIRS AT OUTSIDE LANES

- 1.1 SET UP OUTSIDE LANE DROP AND LANE SHIFT FOLLOWING STANDARD 701423-10: LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS > 45 MPH TO 55 MPH.
- 1.2 PROVIDE 1 – 12' LANE IN EACH DIRECTION.
- 1.3 REPAIR AND MODIFY GUARDRAIL.
- 1.4 PROPOSED OUTSIDE SHOULDER RECONSTRUCTION AS SHOWN ON PLANS TO BE UTILIZED FOR STAGE 2 OF MOT SCHEME.
- 1.5 SEE STRUCTURAL PLANS FOR DETAILED CONSTRUCTION PLANNED FOR THIS STAGE.

STAGE 2 - BRIDGE REPAIRS AT INSIDE LANES

- 2.1 SET UP INSIDE LANE DROP AND LANE SHIFT FOLLOWING STANDARD 701423-10: LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS > 45 MPH TO 55 MPH.
- 2.2 PROVIDE 1 – 12' LANE IN EACH DIRECTION.
- 2.3 SEE STRUCTURAL PLANS FOR DETAILED CONSTRUCTION PLANNED FOR THIS STAGE.

FINAL STAGE

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

LEGEND

- 1 SOLID WHITE EDGE LINE, 4" (70307120)
- 2 SOLID YELLOW EDGE LINE, 4" (70307120)
- 3 TEMPORARY CONCRETE BARRIER
- 4 WORK ZONE

REMOVAL OF TEMPORARY PAVEMENT MARKINGS TO BE PAID FOR AS:
 TEMPORARY PAVEMENT MARKING REMOVAL (X7030005)

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










STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

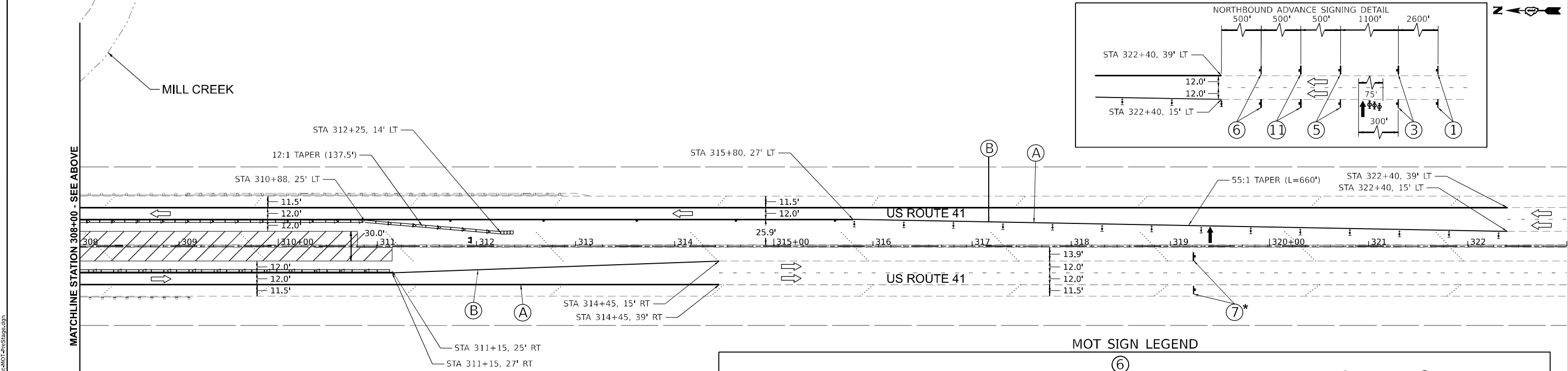
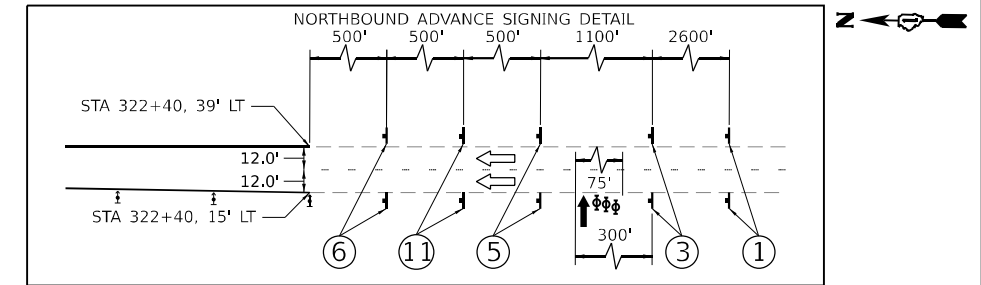
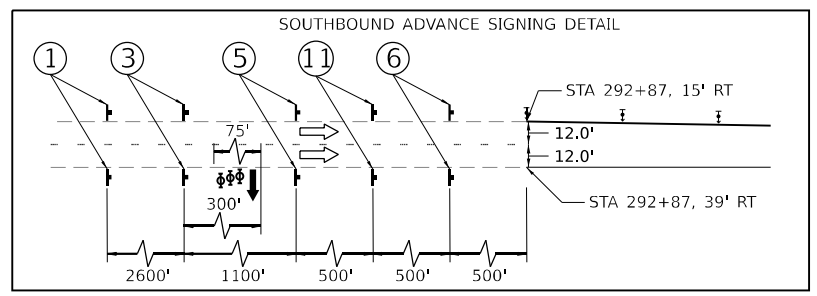
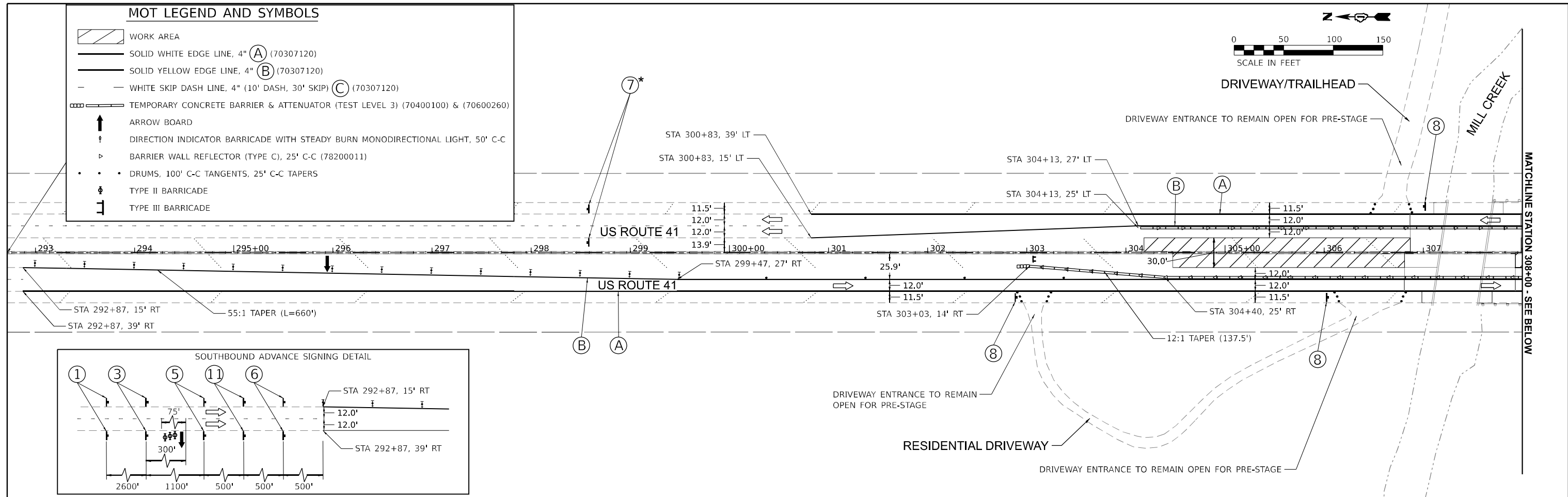
MAINTENANCE OF TRAFFIC – TYPICAL SECTIONS
 US-41

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

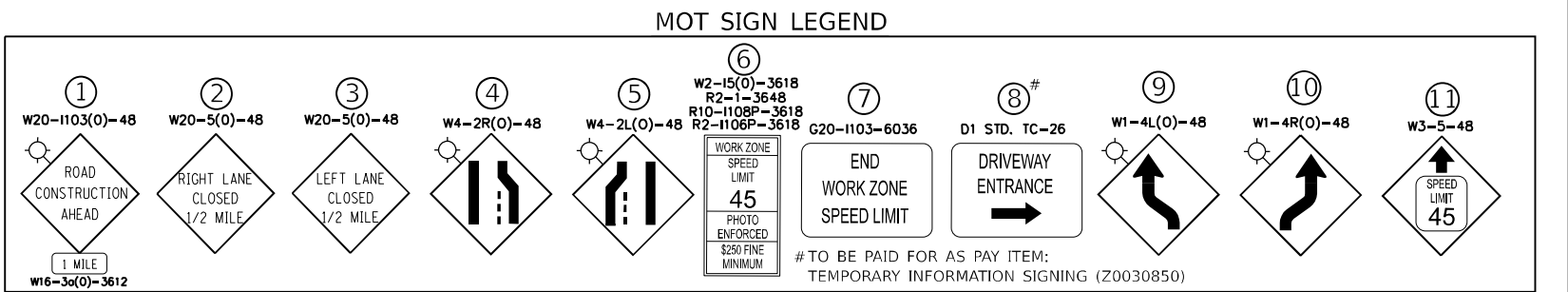
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2020-176-BR	LAKE	30	13
CONTRACT NO. 62M58				
ILLINOIS FED. AID PROJECT				

MOT LEGEND AND SYMBOLS

-  WORK AREA
-  SOLID WHITE EDGE LINE, 4" (A) (70307120)
-  SOLID YELLOW EDGE LINE, 4" (B) (70307120)
-  WHITE SKIP DASH LINE, 4" (10' DASH, 30' SKIP) (C) (70307120)
-  TEMPORARY CONCRETE BARRIER & ATTENUATOR (TEST LEVEL 3) (70400100) & (70600260)
-  ARROW BOARD
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT, 50' C-C
-  BARRIER WALL REFLECTOR (TYPE C), 25' C-C (78200011)
-  DRUMS, 100' C-C TANGENTS, 25' C-C TAPERS
-  TYPE II BARRICADE
-  TYPE III BARRICADE



NOTES
 * PLACEMENT OF SIGN (7) SHALL BE ALIGNED WITH THE PLACEMENT OF SIGN (6) FACING THE OPPOSITE DIRECTION OF TRAVEL SUCH THAT THE WORK ZONE SPEED LIMIT WILL BE IN EFFECT FOR THE SAME STATION RANGE IN BOTH DIRECTIONS OF TRAVEL



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

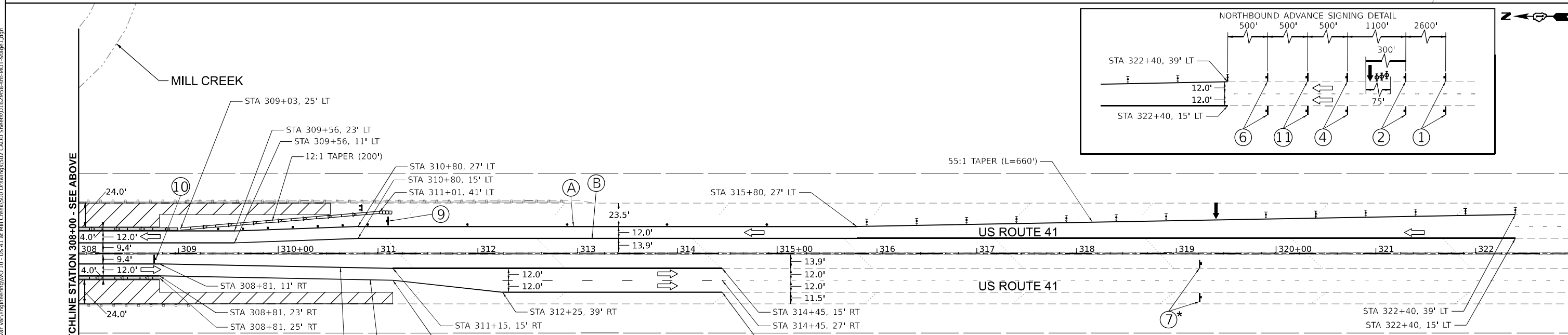
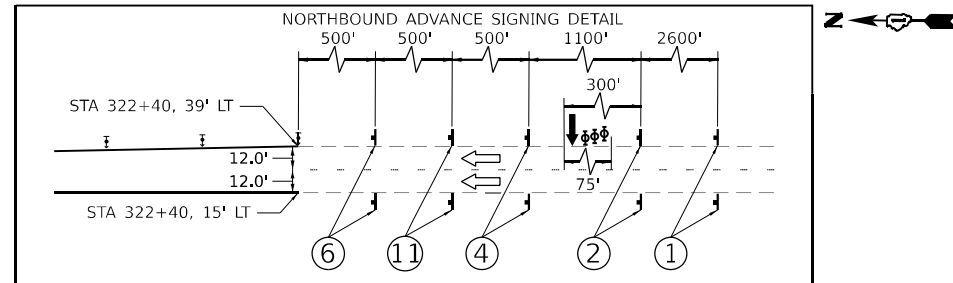
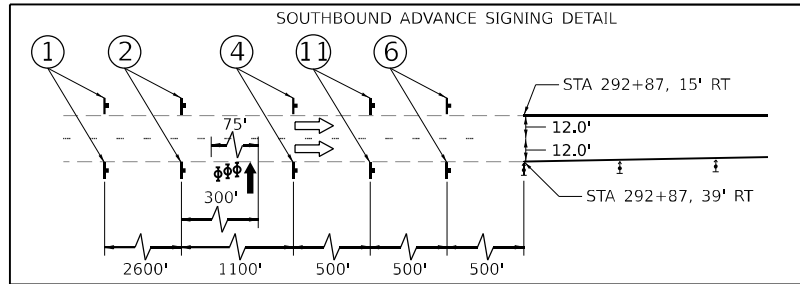
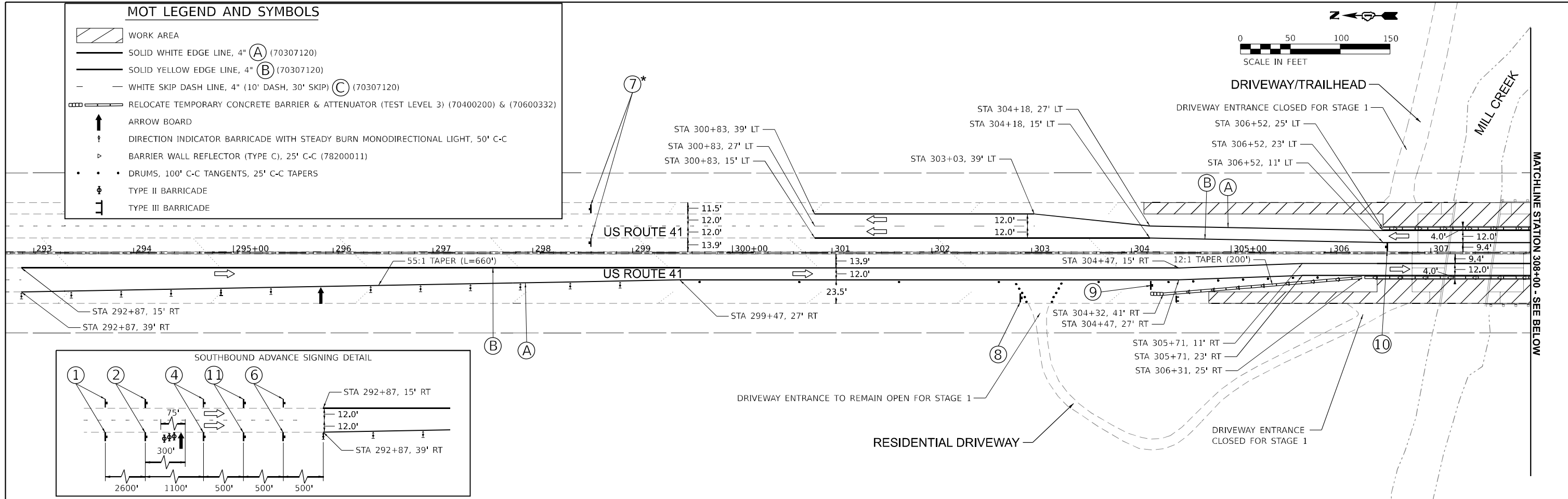
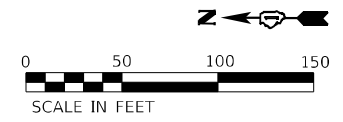
**MAINTENANCE OF TRAFFIC - PRE-STAGE
 US-41**

SCALE: 1"=50' SHEET 2 OF 4 SHEETS STA. 292+70 TO STA. 323+00

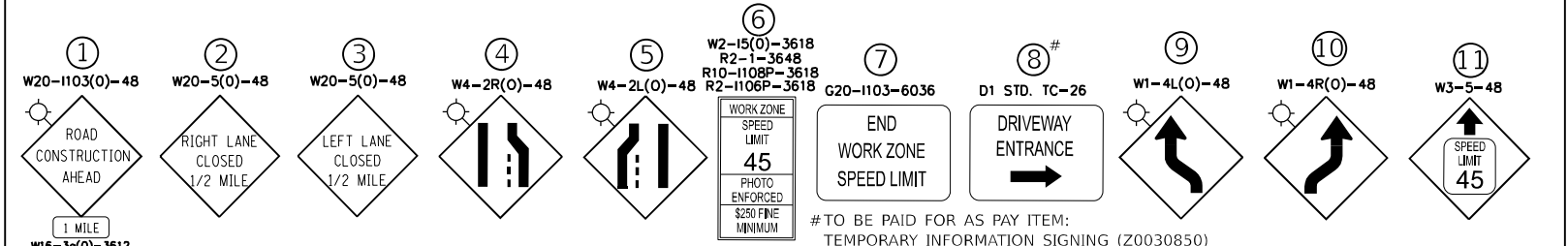
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346	2020-176-BR	LAKE	30	14
CONTRACT NO. 62M58				
ILLINOIS FED. AID PROJECT				

MOT LEGEND AND SYMBOLS

- WORK AREA
- SOLID WHITE EDGE LINE, 4" (A) (70307120)
- SOLID YELLOW EDGE LINE, 4" (B) (70307120)
- WHITE SKIP DASH LINE, 4" (10' DASH, 30' SKIP) (C) (70307120)
- RELOCATE TEMPORARY CONCRETE BARRIER & ATTENUATOR (TEST LEVEL 3) (70400200) & (70600332)
- ARROW BOARD
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT, 50' C-C
- BARRIER WALL REFLECTOR (TYPE C), 25' C-C (78200011)
- DRUMS, 100' C-C TANGENTS, 25' C-C TAPERS
- TYPE II BARRICADE
- TYPE III BARRICADE



MOT SIGN LEGEND



NOTES

* PLACEMENT OF SIGN (7) SHALL BE ALIGNED WITH THE PLACEMENT OF SIGN (6) FACING THE OPPOSITE DIRECTION OF TRAVEL SUCH THAT THE WORK ZONE SPEED LIMIT WILL BE IN EFFECT FOR THE SAME STATION RANGE IN BOTH DIRECTIONS OF TRAVEL



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DRAWN - KM	REVISOR -	
PLOT SCALE = 0.166667' / in.	CHECKED - AP	REVISOR -
PLOT DATE = 11/24/2021	DATE - 11/24/2021	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**












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US-41**

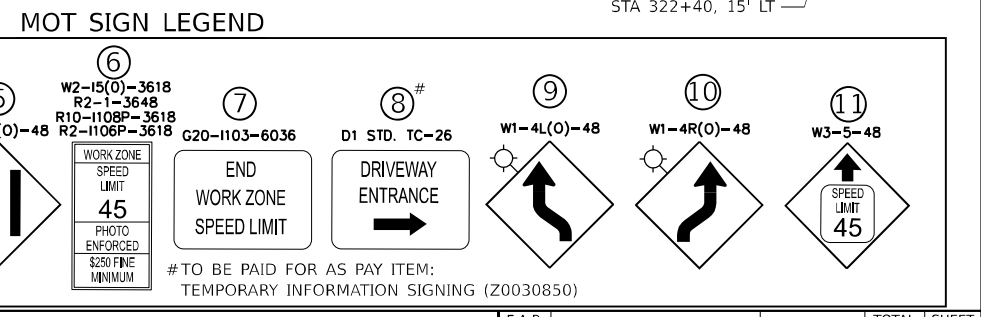
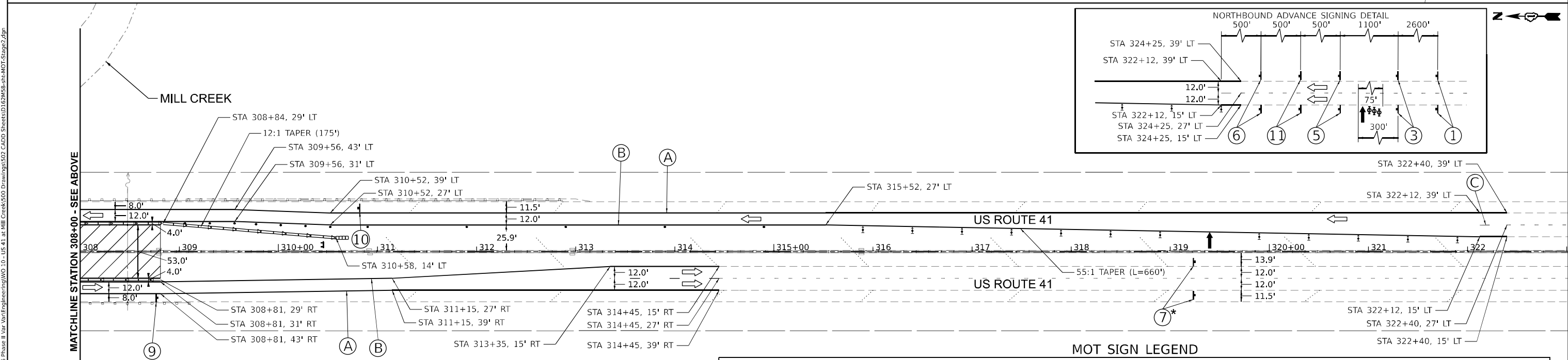
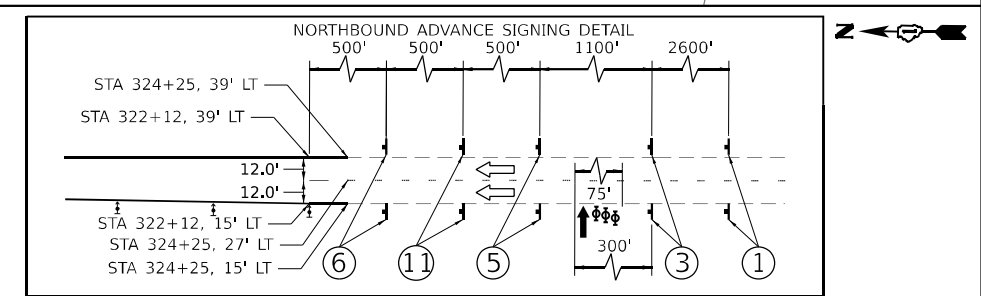
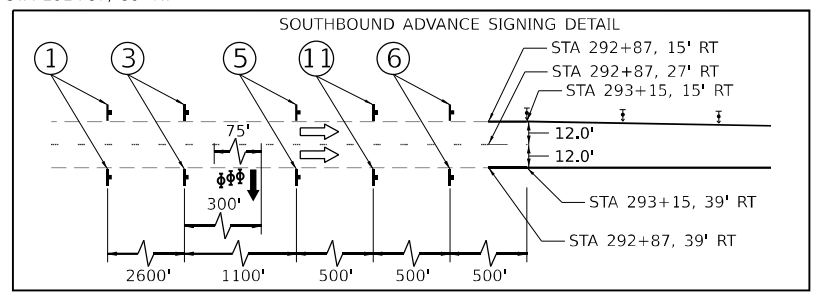
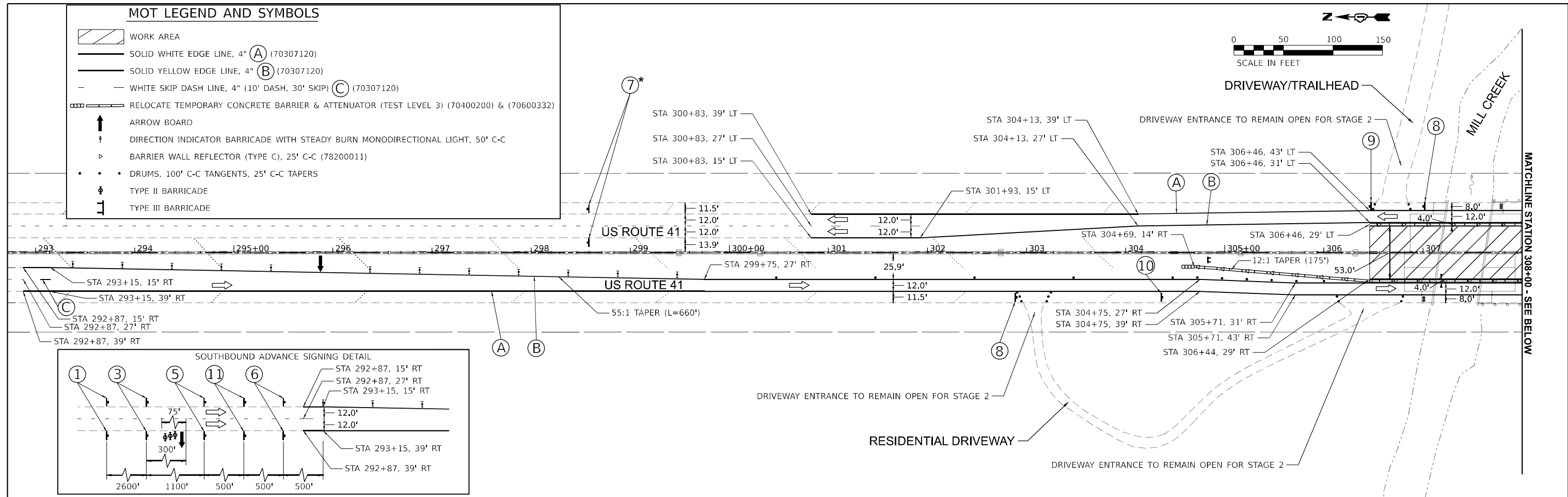
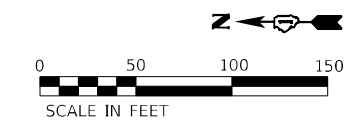
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F.A.P. RTE. 346	SECTION 2020-176-BR	COUNTY LAKE	TOTAL SHEETS 30	SHEET NO. 15
CONTRACT NO. 62M58			ILLINOIS FED. AID PROJECT	

MODEL: US 41 (Sheet) FILE NAME: P1000355 -DOT1040058-01-2021 (ENG) - P10-195-016 Phase II Var (on Engineering) 10 - US 41 at Mill Creek 500 Drawings 502 CADD Sheets 162 MSB-sht-MOT-Stage1.dgn

MOT LEGEND AND SYMBOLS

-  WORK AREA
-  SOLID WHITE EDGE LINE, 4" (A) (70307120)
-  SOLID YELLOW EDGE LINE, 4" (B) (70307120)
-  WHITE SKIP DASH LINE, 4" (10' DASH, 30' SKIP) (C) (70307120)
-  RELOCATE TEMPORARY CONCRETE BARRIER & ATTENUATOR (TEST LEVEL 3) (70400200) & (70600332)
-  ARROW BOARD
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT, 50' C-C
-  BARRIER WALL REFLECTOR (TYPE C), 25' C-C (78200011)
-  DRUMS, 100' C-C TANGENTS, 25' C-C TAPERS
-  TYPE II BARRICADE
-  TYPE III BARRICADE



NOTES
 * PLACEMENT OF SIGN (7) SHALL BE ALIGNED WITH THE PLACEMENT OF SIGN (6) FACING THE OPPOSITE DIRECTION OF TRAVEL SUCH THAT THE WORK ZONE SPEED LIMIT WILL BE IN EFFECT FOR THE SAME STATION RANGE IN BOTH DIRECTIONS OF TRAVEL

MODEL: US 41 (Sheet) FILE NAME: P1010055 - DOT1040058-01-202 (ENG) - P1B 195-016 Phase II Var Var Engineering\10_10_US 41 at Mill Creek\500 Drawings\502 CAD Sheets\1040058-01-MOT-Stage2.dgn

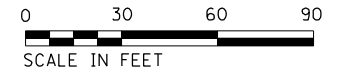
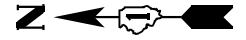


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DRAWN - KM	REVISIONS -	
PLOT SCALE = 0.166667' / in.	CHECKED - AP	REVISED -
PLOT DATE = 11/24/2021	DATE - 11/24/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

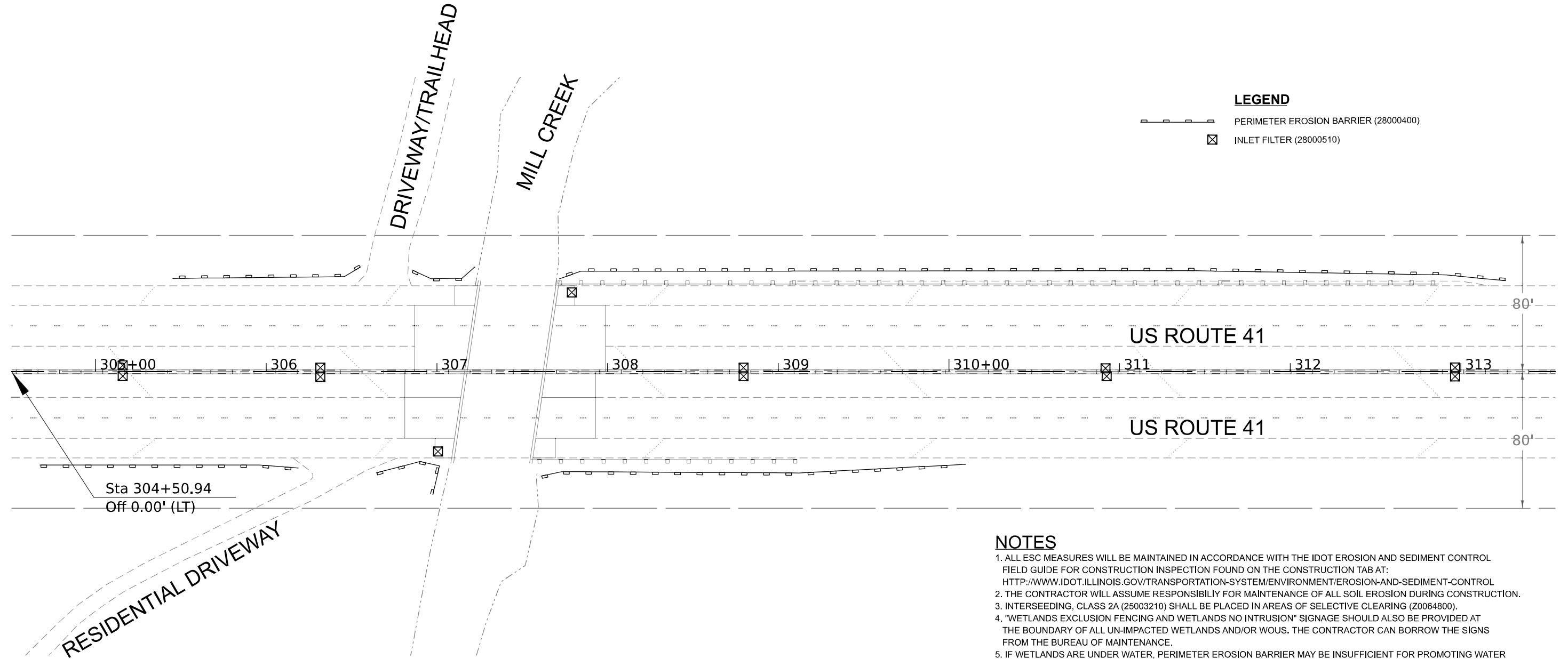
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F.A.P. RTE. 346	SECTION 2020-176-BR	COUNTY LAKE	TOTAL SHEETS 30	SHEET NO. 16
CONTRACT NO. 62M58			ILLINOIS FED. AID PROJECT	



LEGEND

- PERIMETER EROSION BARRIER (28000400)
- INLET FILTER (28000510)



NOTES

- ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION FOUND ON THE CONSTRUCTION TAB AT: [HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL](http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control)
- THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION DURING CONSTRUCTION.
- INTERSEEDING, CLASS 2A (25003210) SHALL BE PLACED IN AREAS OF SELECTIVE CLEARING (20064800).
- "WETLANDS EXCLUSION FENCING AND WETLANDS NO INTRUSION" SIGNAGE SHOULD ALSO BE PROVIDED AT THE BOUNDARY OF ALL UN-IMPACTED WETLANDS AND/OR WOUS. THE CONTRACTOR CAN BORROW THE SIGNS FROM THE BUREAU OF MAINTENANCE.
- IF WETLANDS ARE UNDER WATER, PERIMETER EROSION BARRIER MAY BE INSUFFICIENT FOR PROMOTING WATER QUALITY. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING A SUITABLE ALTERNATIVE FOR PROMOTING WATER QUALITY AND THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL EXISTING WETLANDS TO ESTABLISH A "WETLAND PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED, MATERIALS STORED, OR VEHICLES DRIVEN OR PARKED WITHIN THE "WETLAND PROTECTION ZONE". REMOVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION HAS BEEN COMPLETED.
- THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: PROTECTED WETLAND - NO INTRUSION. THE SIGN(S) SHALL BE ATTACHED TO THE STAKES BY A METHOD APPROVED BY THE ENGINEER. THE SIGN(S) WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT ARCHITECT IN SCHAUMBURG, ILLINOIS. SCHEDULING THE PICKUP OF THE SIGNS CAN BE ARRANGED BY CONTACTING THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT AT (847)-705-4171. WHEN WORK HAS BEEN COMPLETED, THE SIGN SHALL BE RETURNED TO THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT. THE COST OF PICKING UP, ATTACHING THE SIGNS TO THE TEMPORARY FENCE STAKES, AND RETURNING THE SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCIDENTAL TO THE CONTRACT.

MODEL: D:\info\Bowman\DOT\1005501-1002 (ENG)-PTB-1954\18 Phase II\01 - US 41 at Mill Creek\500 Drawing\502 CADD Sheets\100218ESC-66erosion.dgn
FILE NAME: 100218ESC-66erosion.dgn



311 S. Wacker Drive, Suite 1950
Chicago, Illinois 60606
312-414-0300
www.bowman.com

USER NAME = apatel	DESIGNED - MT	REVISED -
DRAWN - KM	REVISED -	
CHECKED - AP	REVISED -	
DATE - 12/28/2021	REVISED -	

PLOT SCALE = 60,0000' / in.
PLOT DATE = 12/28/2021

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
US-41**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. 304+50 TO STA. 313+55

F.A.P. RTE. 346	SECTION 2020-176-BR	COUNTY LAKE	TOTAL SHEETS 30	SHEET NO. 17
CONTRACT NO. 62M58				
ILLINOIS FED. AID PROJECT				

Existing Structures:
 S.N. 049-0028, originally built in 1935. Superstructure R.C.D.G. Substructure consists of closed abutments. Superstructure was completely replaced in 1989. Precast Box Culvert, S.N. 049-0184 was built in 1998 and consists of 4 (3.6m x 1.8m) cells. Structures are to be repaired as detailed in these plans. The structures will utilize staged construction to maintain traffic.

DESIGN STRESSES

FIELD UNITS (EXIST. CONST.)

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi
 $f_y = 50,000$ psi M223 Gr.50 & M222
 $f_y = 36,000$ psi M183

FIELD UNITS (NEW CONST.)

$f'_c = 4,000$ psi (Superstructure)
 $f'_c = 3,500$ psi (Substructure)
 $f_y = 60,000$ psi (Reinforcement)

DESIGN SPECIFICATIONS

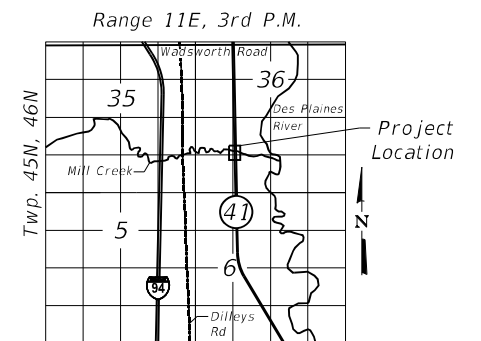
2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS20-44

Existing and Proposed

INDEX OF SHEETS

- S-1 General Plan and Elevation
- S-2 General Notes & Bill of Materials
- S-3 Maintenance of Traffic Details
- S-4 Deck & Approach Slabs Repairs and Overlay Plans
- S-5 Concrete Repair Plans
- S-6 South-West Corner Parapet Modifications & New Terminal 5
- S-7 New Railing Installation at Culvert
- S-8 Adjusting Drainage Scupper Details



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

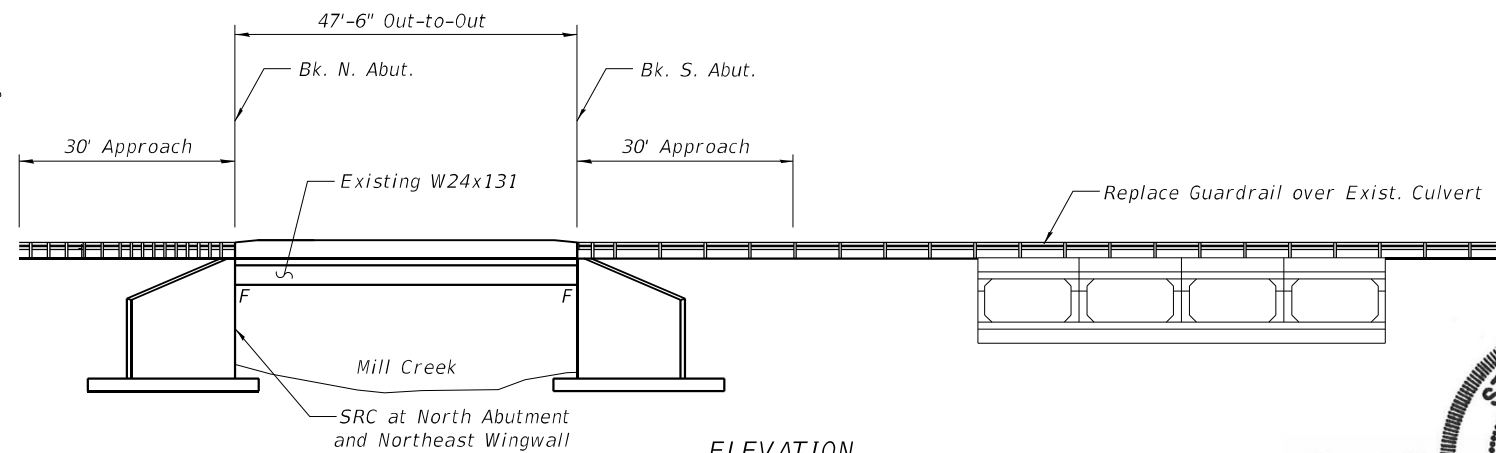
US 41 OVER MILL CREEK

SECTION 2020-176-BR

LAKE COUNTY

STRUCTURE NO. 049-0028 (BRIDGE)

STRUCTURE NO. 049-0184 (CULVERT)

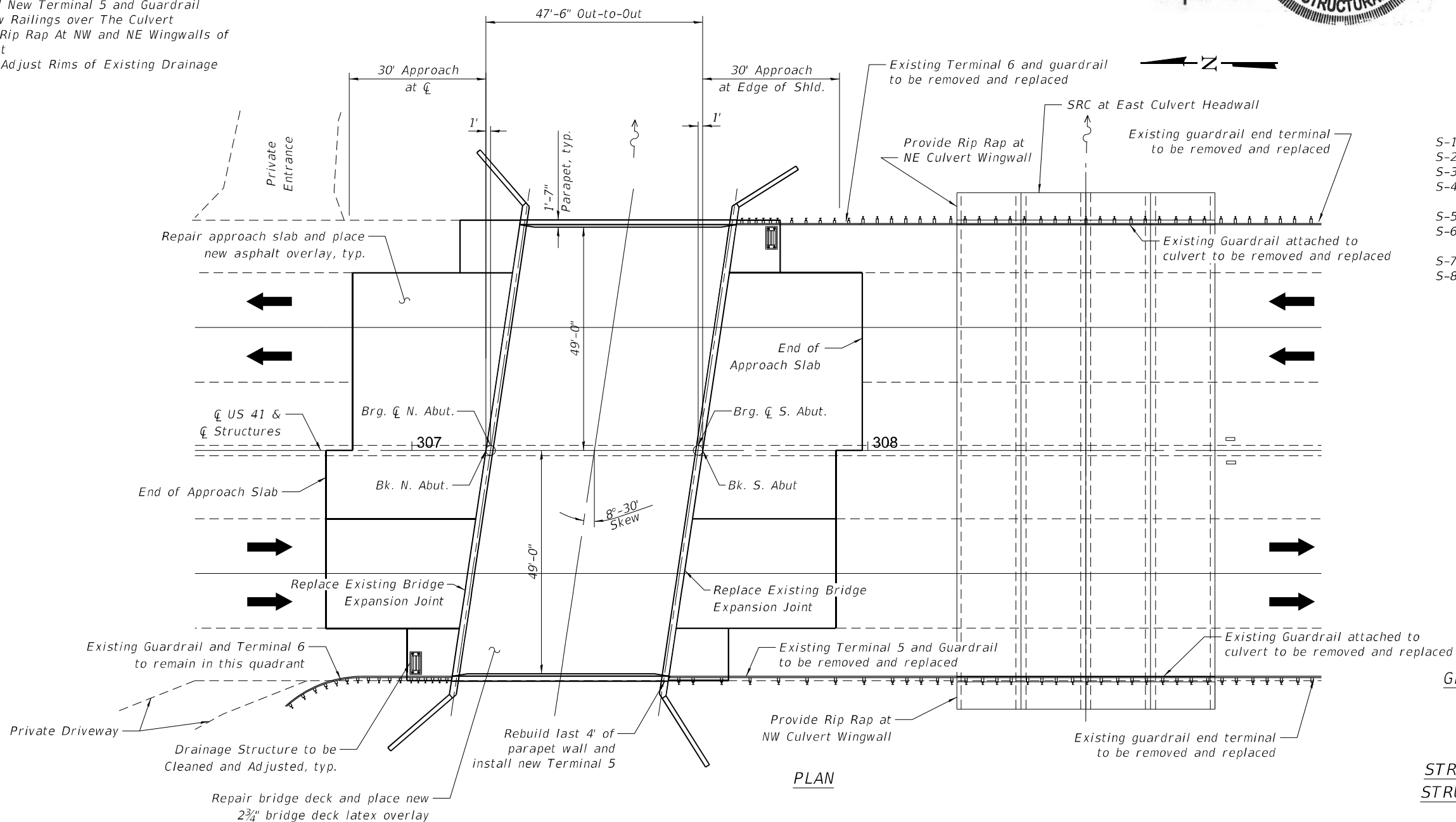


ELEVATION



SCOPE OF WORK

1. Perform Deck & Approach Slabs Partial and Full Depth Patching
2. Install New 2 3/4" Latex Overlay over Bridge Slab
3. Install New HMA Overlay At Approach Slabs
4. Install New Polymer Nosing and Silicone Joint Seal with Backer Rod at Bridge Ends
5. Clean and reseal relief joints at the end of approach slabs
6. Perform Concrete Repairs of North Abutment and East Culvert Headwall
7. Apply Concrete Sealer to Bridge Parapets and Median Barrier
8. Repair and Modify South End of West Parapet and Install New Terminal 5 and Guardrail
9. Install New Railings over The Culvert
10. Replenish Rip Rap At NW and NE Wingwalls of The Culvert
11. Clean and Adjust Rims of Existing Drainage Structures



PLAN

MODEL: Default
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	USER NAME = atiemann	DESIGNED - AHT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION US 41 OVER MILL CREEK- SN 049-0028 & SN 049-0184	F.A.U. RTE. = 41	SECTION = 2020-176-BR	COUNTY = LAKE	TOTAL SHEETS = 30	SHEET NO. = 18	
	PLOT SCALE = 320,0000' / 1.	DRAWN - AHT	REVISED -			SHEET 1 OF 8 SHEETS		CONTRACT NO. 62M58			
	PLOT DATE = 12/28/2021	CHECKED - AJN	REVISED -					ILLINOIS FED. AID PROJECT			

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Concrete Sealer shall be applied to front and top face of bridge parapets and entire surface of the median barrier.

Protective Coat shall be applied to the new latex concrete overlay.

CONSTRUCTION

- The contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
- Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustment prior to construction of or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work. However, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
- No concrete cutting shall be permitted until the cutting limits have been outlined by the contractor and approved by the engineer.
- Whenever any material is deposited into a drainage system or drainage structures, the deposited material shall be removed at the close of each working day. At the conclusion of construction operations, all drainage systems and structures shall be free from dirt and debris deposited during the various construction operations. The work specified above will not be paid for separately, but shall be considered included in the cost of "Drainage Structures to be Cleaned".
- It shall be the contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.

TOTAL BILL OF MATERIAL

ITEM NO.	DESCRIPTION	Unit	Super	Sub	Culvert	Total
28100707	Stone Dumped Riprap, Class A4	SQ. YD.	-	-	10.0	10.0
28200200	Filter Fabric	SQ. YD.	-	-	10.0	10.0
50102400	Concrete Removal	CU. YD.	0.5	-	-	0.5
50104000	Bridge Rail Removal	FOOT	114	-	-	114
50300255	Concrete Superstructure	CU. YD.	0.5	-	-	0.5
50300300	Protective Coat	SQ. YD.	487	-	-	487
50800205	Reinforcement Bars, Epoxy Coated	POUND	20	-	-	20
58700300	Concrete Sealer	SQ. FT.	663	-	-	663
60300105	Frames and Grates To Be Adjusted	EACH	2	-	-	2
X0326766	Clean & Reseal Relief Joint	FOOT	202.0	-	-	202.0
X5030250	Bridge Deck Grooving (Longitudinal)	SQ. YD.	455	-	-	455
Z0001700	Approach Slab Repair (Full Depth)	SQ. YD.	13.7	-	-	13.7
Z0001800	Approach Slab Repair (Partial Depth)	SQ. YD.	54.4	-	-	54.4
* Z0006016	Bridge Deck Latex Concrete Overlay, 2 3/4 Inches	SQ. YD.	486	-	-	486
* Z0012130	Bridge Deck Scarification 3/4"	SQ. YD.	486	-	-	486
* Z0012754	Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	SQ. FT.	-	37.0	32.0	69.0
* Z0012755	Structural Repair of Concrete (Depth Greater Than 5 Inches)	SQ. FT.	-	15.0	-	15.0
* Z0016001	Deck Slab Repair (Full Depth, Type I)	SQ. YD.	0.5	-	-	0.5
* Z0016002	Deck Slab Repair (Full Depth, Type II)	SQ. YD.	1.0	-	-	1.0
Z0018500	Drainage Structures to be Cleaned	EACH	2	-	-	2
Z0021902	Silicone Joint Sealer, 1/2"	FOOT	205.0	-	-	205.0
* Z0029090	Diamond Grinding (Bridge Section)	SQ. YD.	455	-	-	455
Z0041895	Polymer Concrete	CU. FT.	15.1	-	-	15.1

* IDOT GBSP

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Bowman 311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606 312-454-0580 www.bowman.com	USER NAME = atiemann	DESIGNED - AHT	REVISED -
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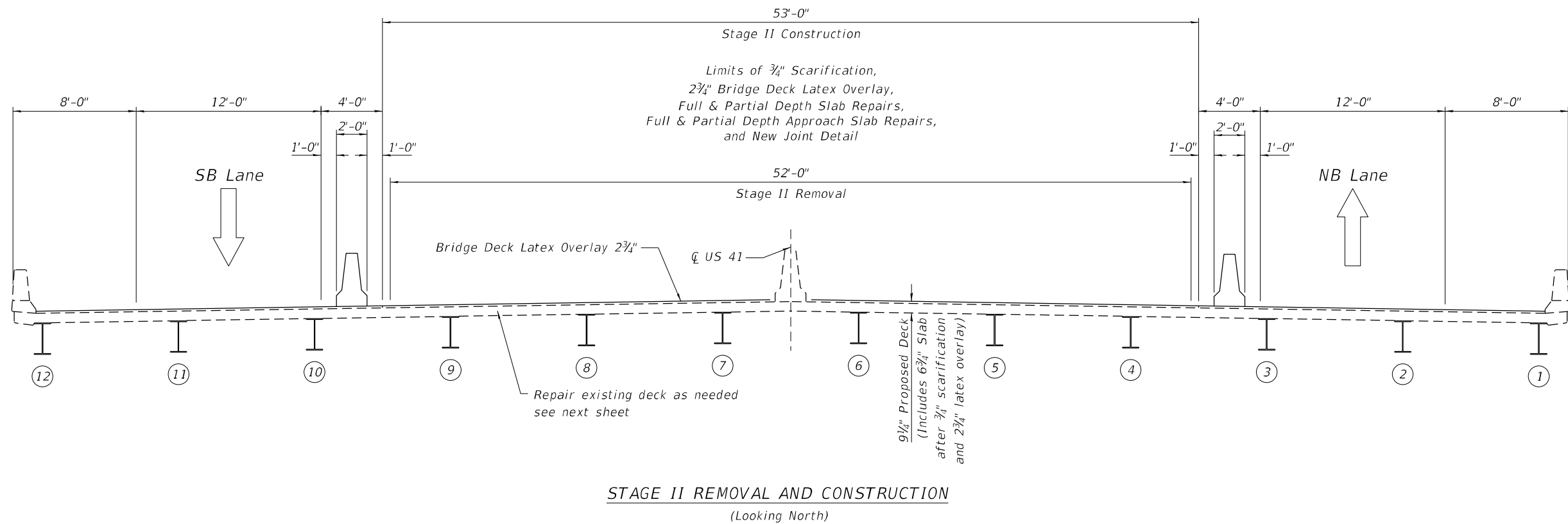
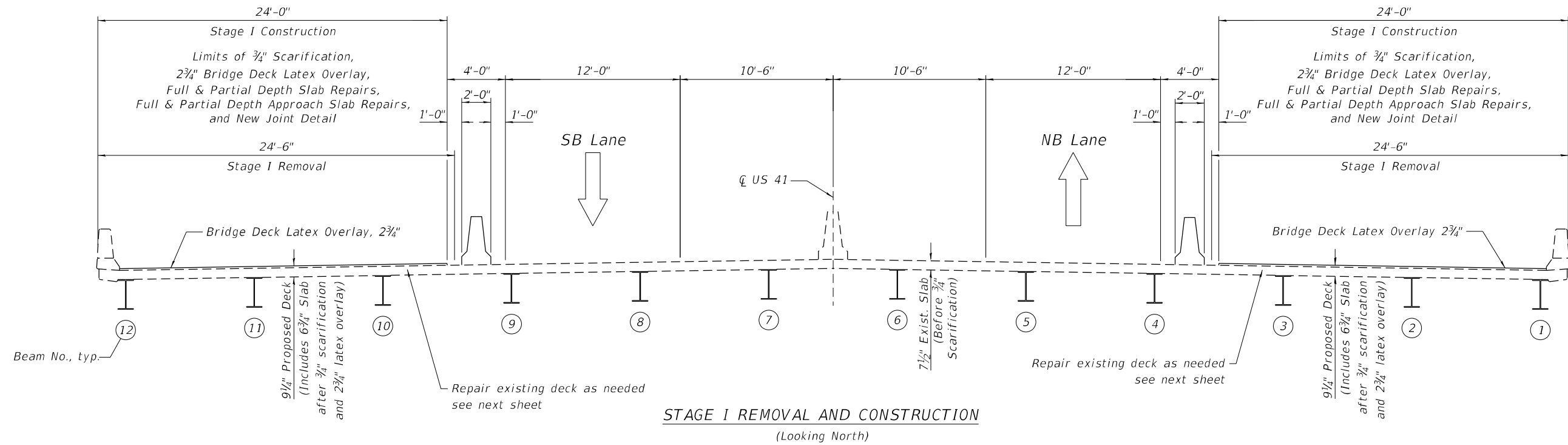
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES AND BILL OF MATERIAL
US 41 OVER MILL CREEK- SN 049-0028 & SN 049-0184**

SHEET 2 OF 8 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	2020-176-BR	LAKE	30	19
CONTRACT NO.			62M58	
ILLINOIS		FED. AID PROJECT		

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

USER NAME =	atlemann	DESIGNED -	AHT	REVISED -	
PLOT SCALE =	480,0000' / ft.	CHECKED -	AJN	REVISED -	
PLOT DATE =	12/28/2021	DRAWN -	AHT	REVISED -	
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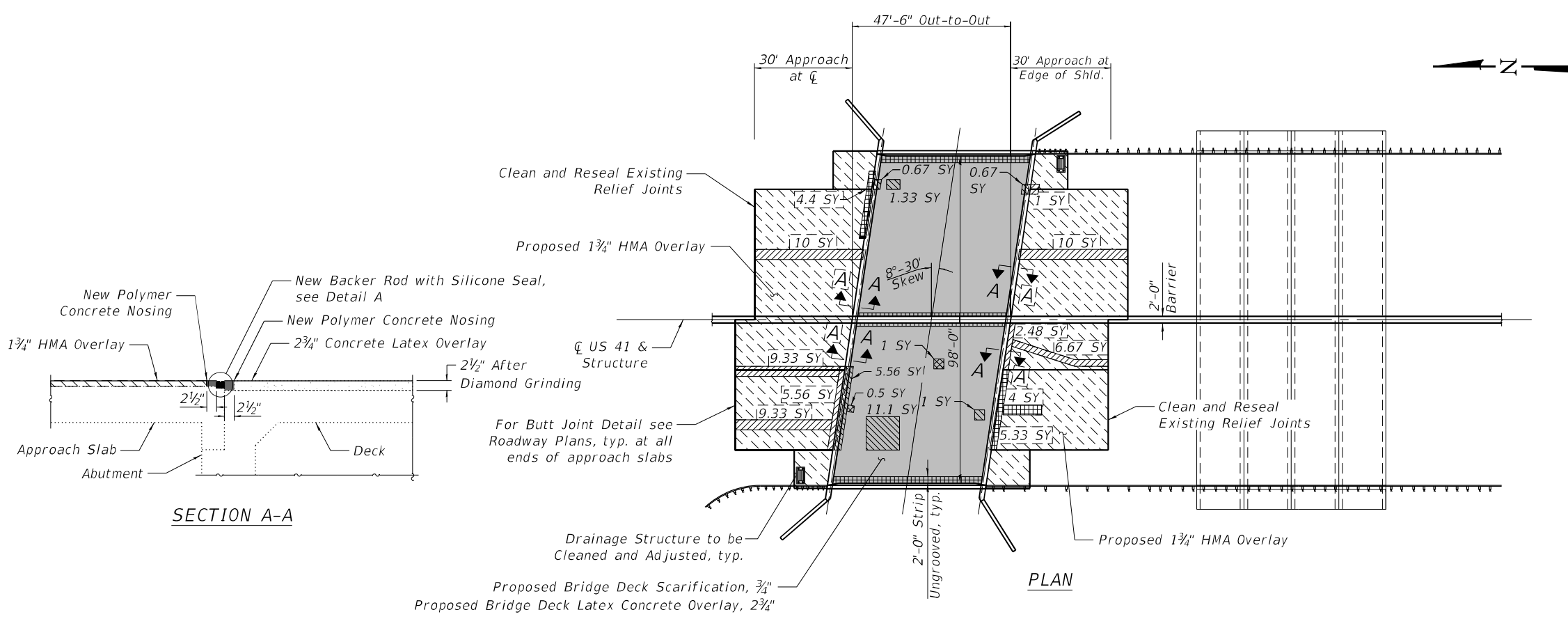
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC DETAILS
US 41 OVER MILL CREEK- SN 049-0028 & SN 049-0184

SHEET 3 OF 8 SHEETS

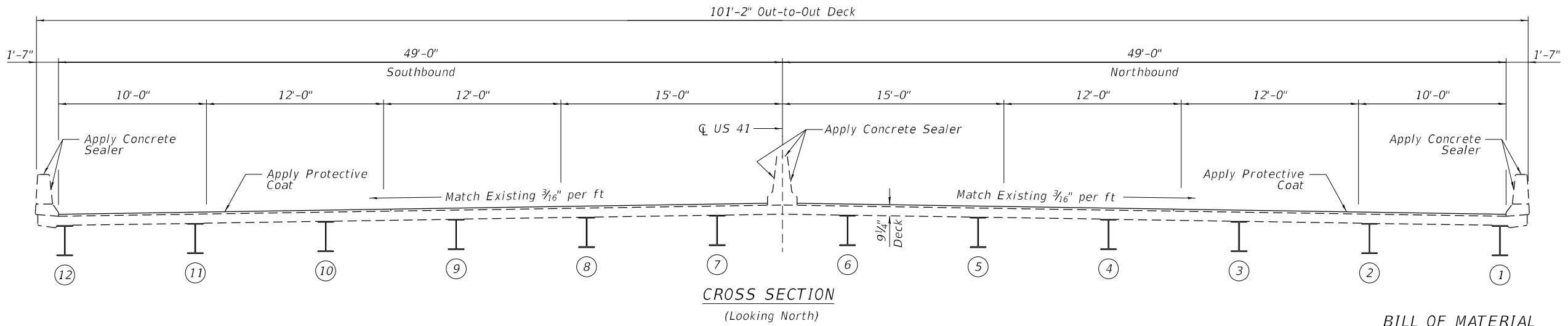
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CONTRACT NO.			62M58	
ILLINOIS FED. AID PROJECT				

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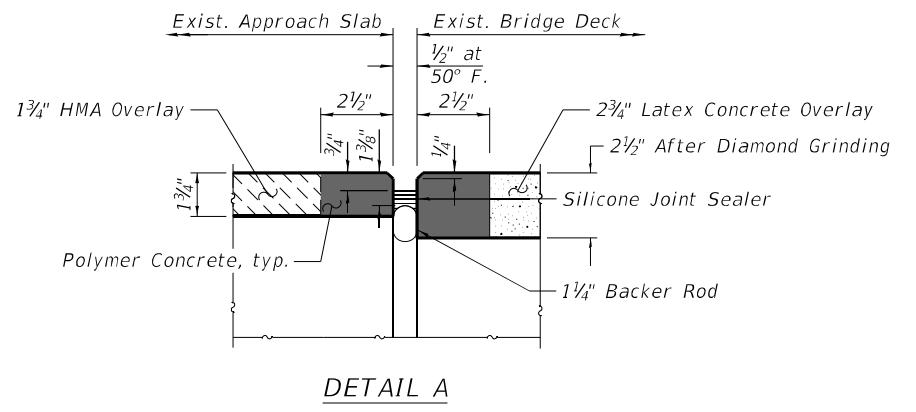


LEGEND

	Deck Patching, Partial Depth - For Information Only
	Deck Patching, Full Depth
	Approach Slab Repair, Partial Depth
	Approach Slab Repair, Full Depth
	3/4" Bridge Deck Scarification & 2 3/4" Bridge Deck Latex Overlay
	HMA Overlay
	Deck Area Not To Be Grooved



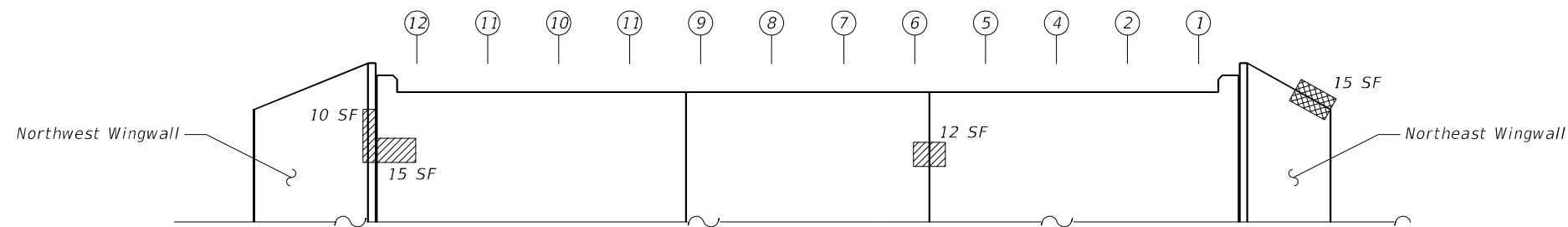
- Notes:**
- BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4 INCHES shall be diamond grinded and grooved. See GBSP's 59 & 79 for details.
 - All drainage structures must be protected during HMA overlay placement in the approach slabs.
 - Use of hand tools is required while working around drainage structures.
 - Hand finish of overlay material is required around drainage structures. The cost is included in the HMA overlay placement in the approach slabs.
 - Quantities and limits of repairs shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.



BILL OF MATERIAL

Item	Unit	Total
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	455
Protective Coat	Sq. Yd.	487
Approach Slab Repair (Full Depth)	Sq. Yd.	13.7
Approach Slab Repair (Partial Depth)	Sq. Yd.	54.4
Bridge Deck Latex Concrete Overlay, 2 3/4 Inches	Sq. Yd.	486
Bridge Deck Scarification, 3/4"	Sq. Yd.	486
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.5
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	1.0
Concrete Sealer	Sq. Ft.	663
Drainage Structures to be cleaned	Each	2
Polymer Concrete	Cu. Ft.	15.1
Clean & Reseal Relief Joint	Foot	202.0
Silicone Joint Sealer, 1/2"	Foot	205.0

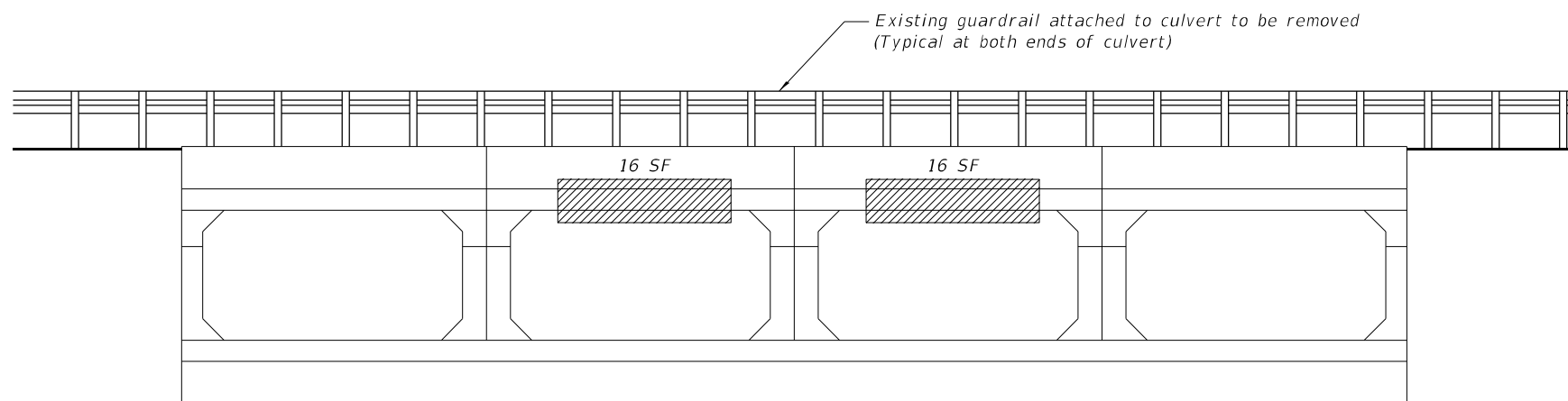
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NORTH ABUTMENT - ELEVATION
(Facing North)



REMOVE EXISTING RAILING - EAST END OF CULVERT



CULVERT - EAST ELEVATION
(Facing West)



REMOVE EXISTING RAILING - WEST END OF CULVERT

Notes:

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

2. All components of existing railing system on culvert shall be removed. Anchor bolts from the existing rail may be cut flush with the headwall and left in place.

LEGEND

- SRC Depth ≤ 5"
- SRC Depth > 5"

BILL OF MATERIAL

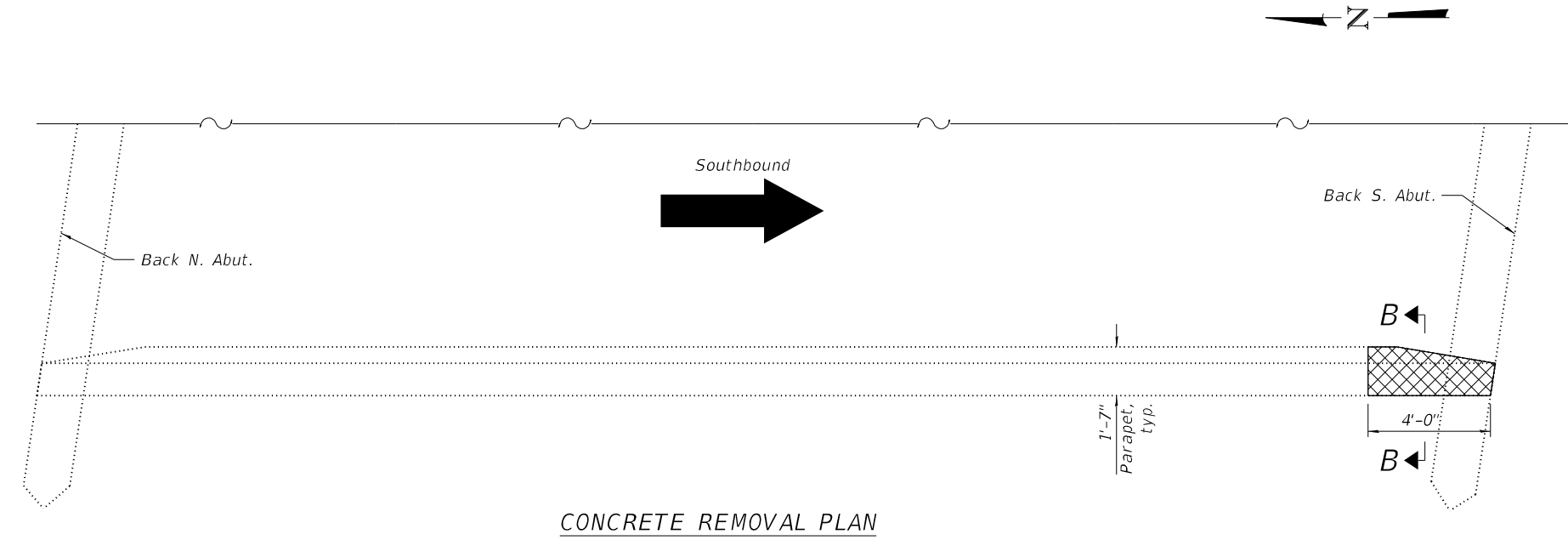
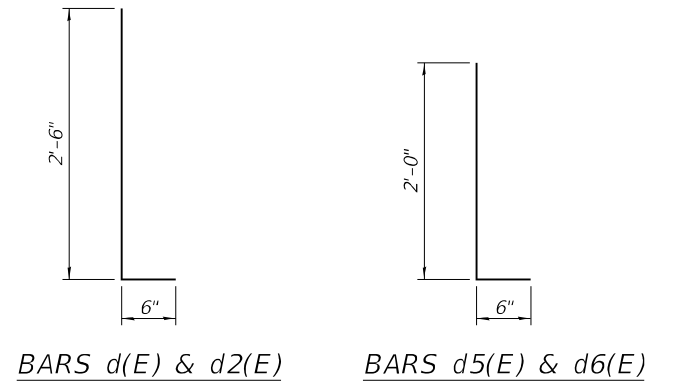
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Structural Repair of Concrete, Depth Equal to or Less Than 5 In.	SQ. FT.	69.0
Structural Repair of Concrete, Depth Greater Than 5 In.	SQ. FT.	15.0
Bridge Rail Removal	FOOT	114

BILL OF MATERIAL

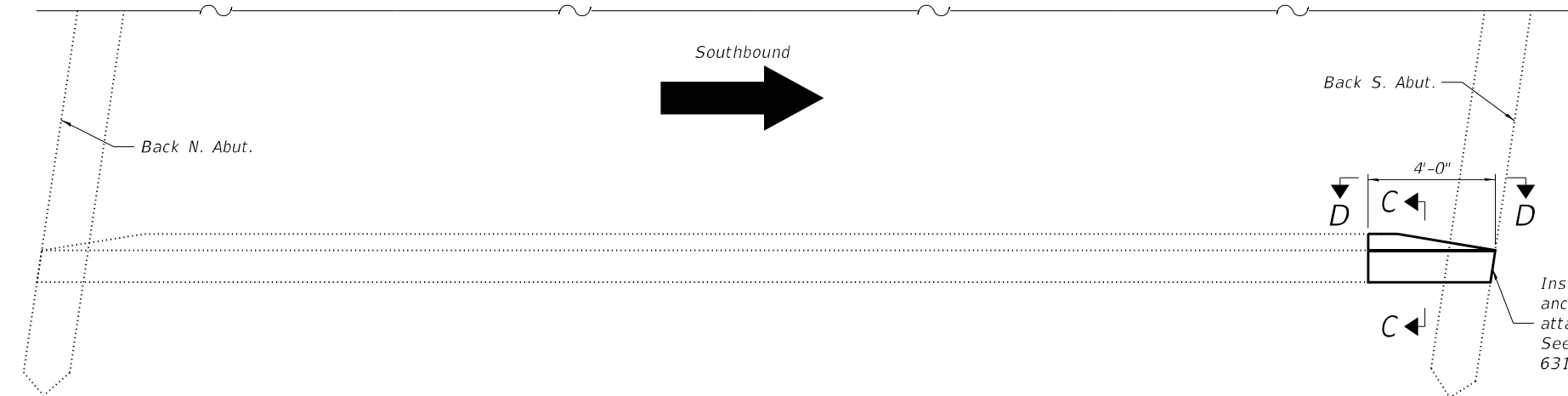
Bar	No.	Size	Length	Shape
d(E)	2	#5	3'-0"	
d2(E)	2	#4	3'-0"	
d5(E)	2	#5	2'-6"	
d6(E)	2	#4	2'-6"	
Concrete Superstructure			Cu. Yd.	0.5
Concrete Removal			Cu. Yd.	0.5
Reinforcement Bars, Epoxy Coated			Pound	20

LEGEND

- Concrete Removal

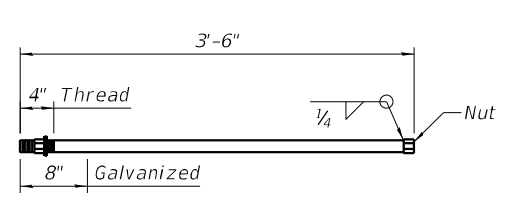


CONCRETE REMOVAL PLAN

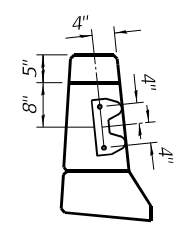


CONCRETE REPLACEMENT PLAN

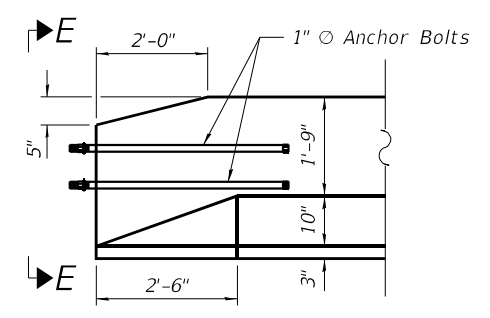
- Notes:**
- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
 - Installation of 1" dia. anchor bolts for Terminal 5 is included with the cost of the new Terminal 5.



1" \varnothing ANCHOR BOLT
(Cost of bolts to be incidental to Terminal 5)

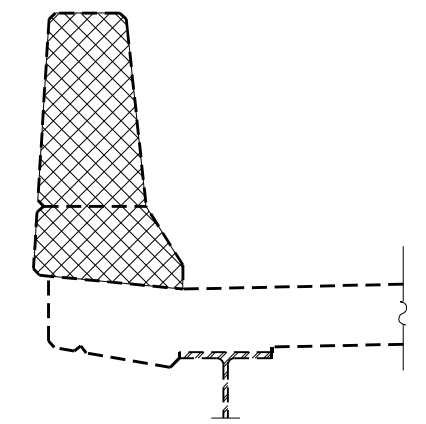


VIEW E-E
(Inside elevation of parapet)

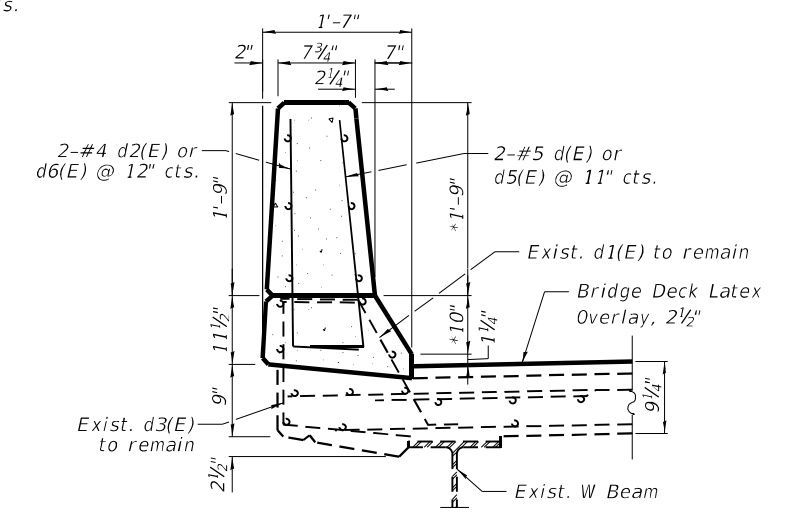


VIEW D-D
(Inside elevation of parapet)

Install new 1" dia. anchor bolts and attach Terminal 5. See Highway Standard 631026 for details.



SECTION B-B



SECTION C-C
*Variable height, see Section D-D

MODEL: Default
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12/28/2021 11:28:32 AM



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DRAWN - AHT
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PLOT DATE = 12/28/2021

DESIGNED - AHT
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REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

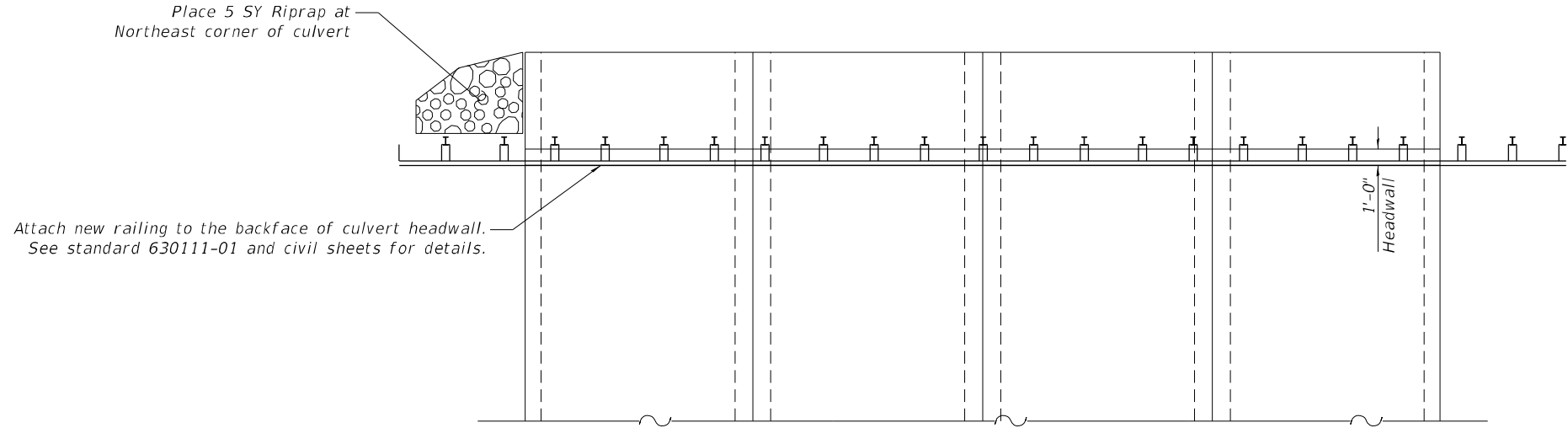
**SOUTH-WEST CORNER PARAPET MODIFICATIONS & NEW TERMINAL 5
US 41 OVER MILL CREEK- SN 049-0028 & SN 049-0184**

SHEET 6 OF 8 SHEETS

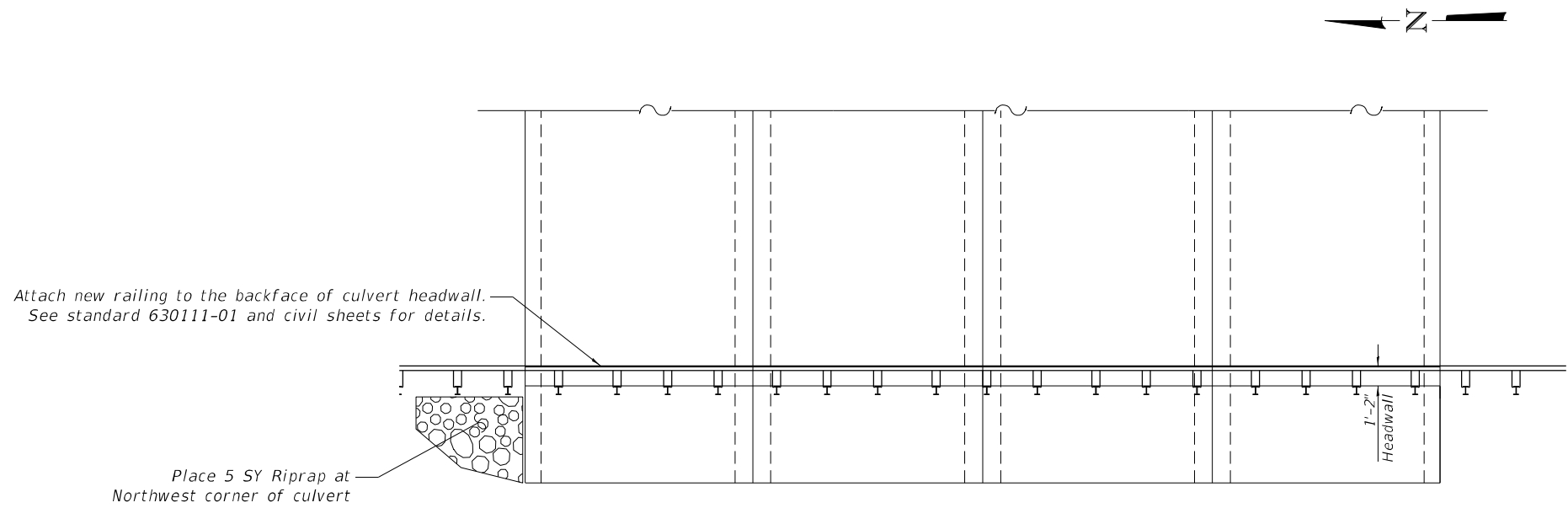
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41	2020-176-BR	LAKE	30	23
CONTRACT NO.			62M58	

ILLINOIS FED. AID PROJECT

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CULVERT PLAN - EAST END



CULVERT PLAN - WEST END

Note:
 Riprap limits to be determined in the field by the Engineer.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Dumped Riprap, Class A4	SQ. YD.	10.0



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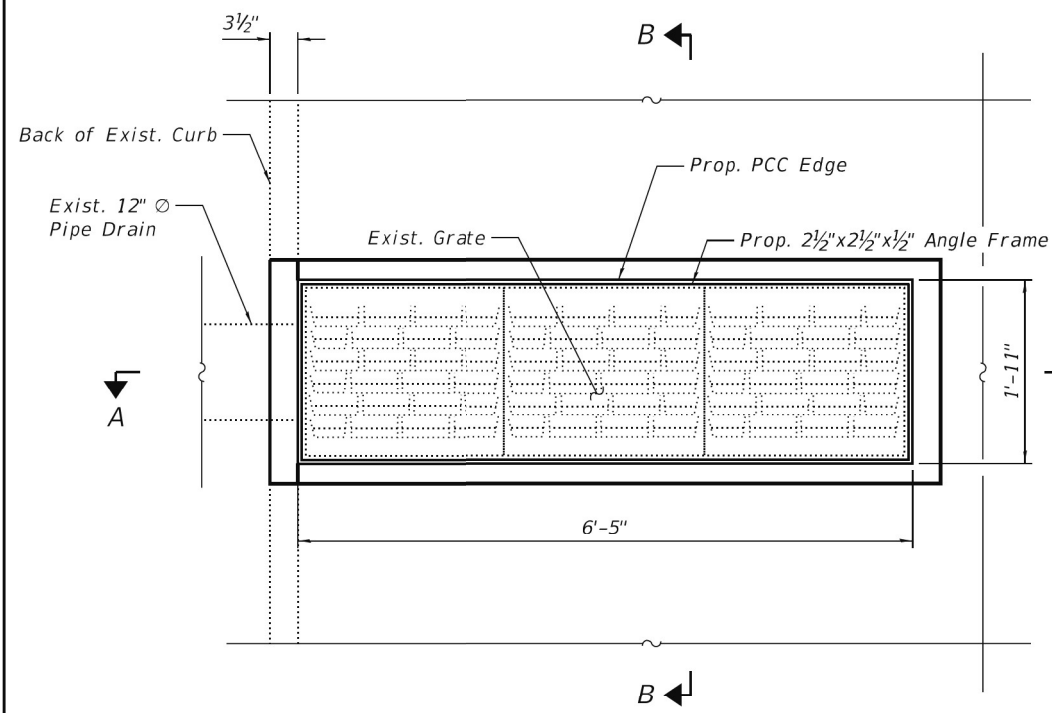
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NEW RAILING INSTALLATION AT CULVERT
 US 41 OVER MILL CREEK- SN 049-0028 & SN 049-0184**

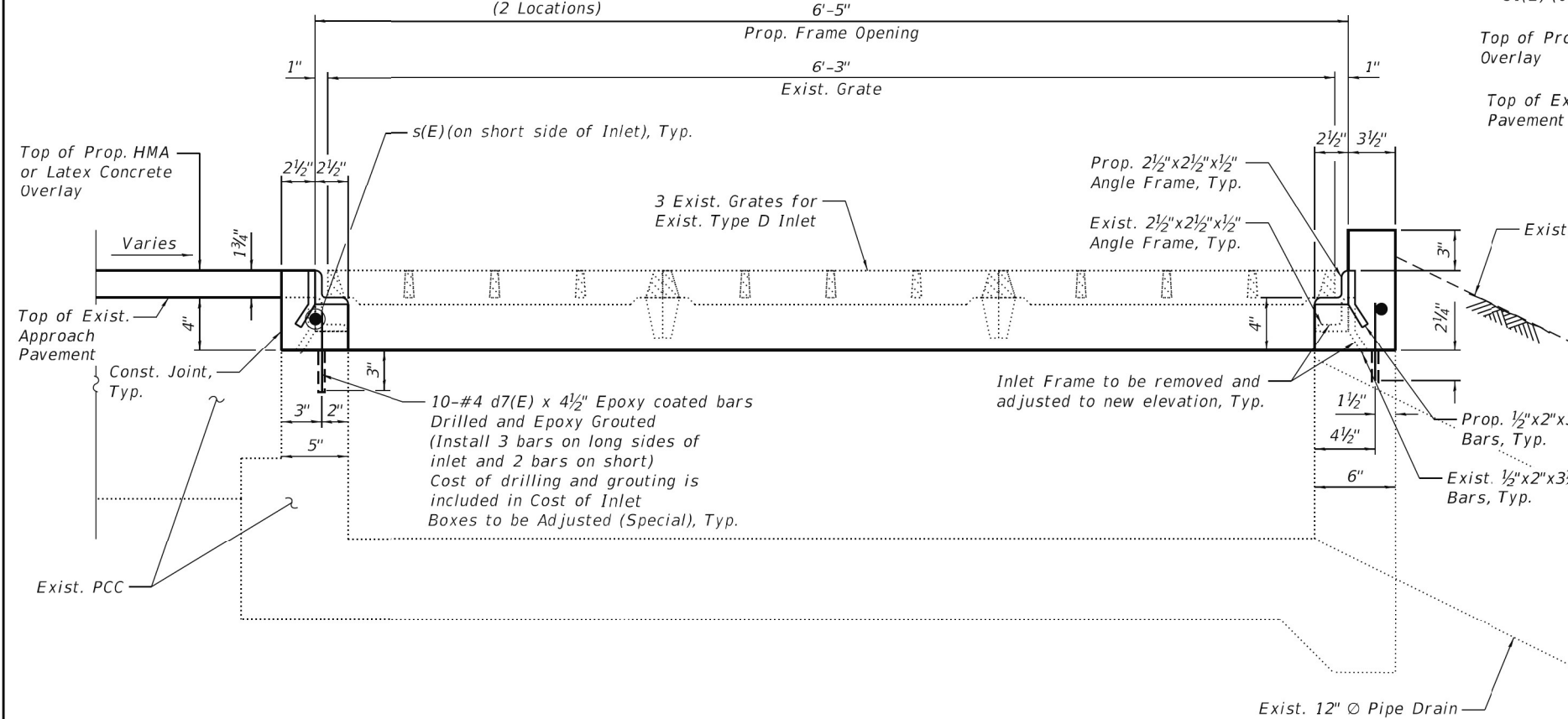
SHEET 7 OF 8 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS		FED. AID PROJECT		

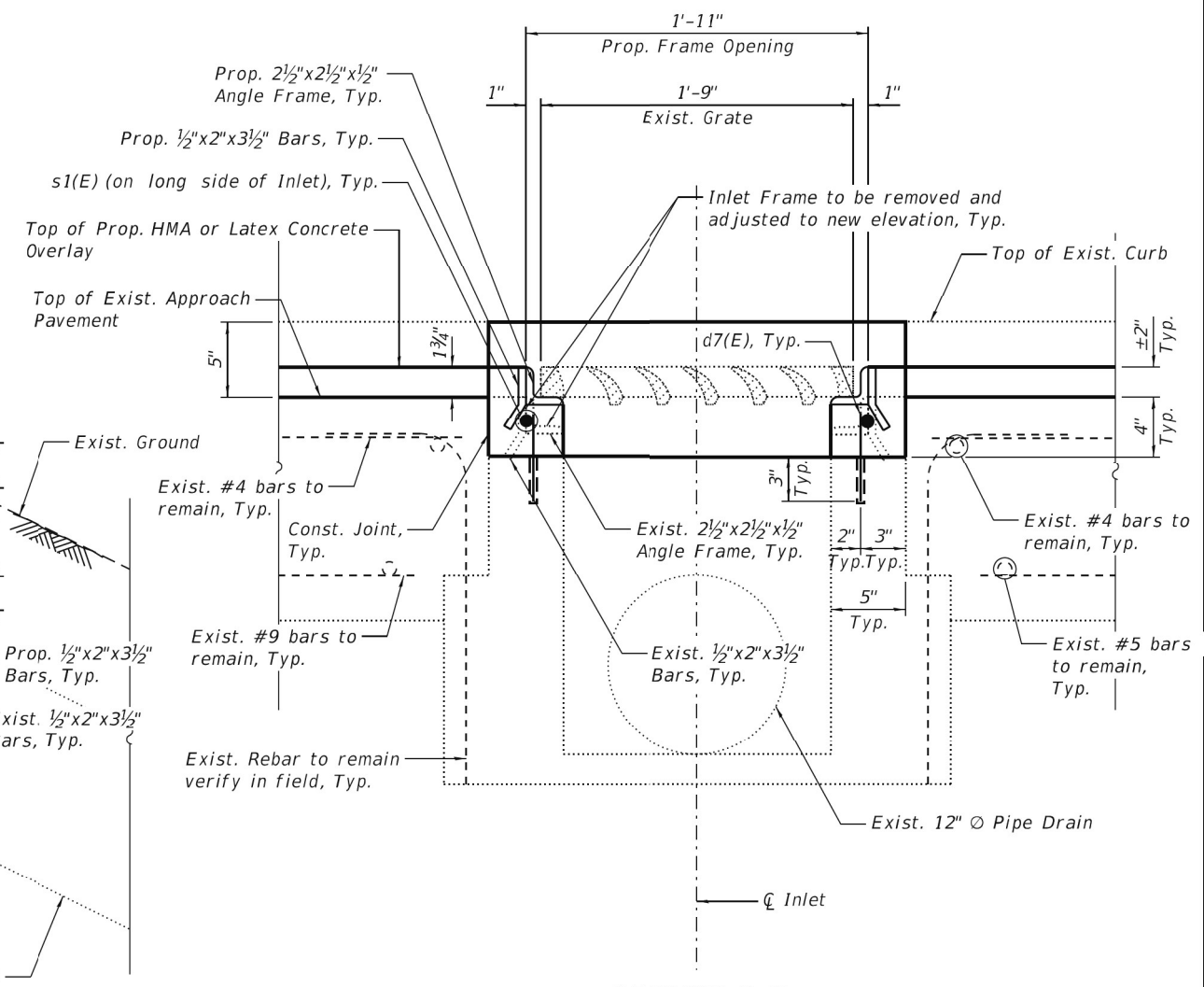
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 12/28/2021 11:28:33 AM



TYPICAL DRAINAGE STRUCTURE PLAN
(2 Locations)



SECTION A-A



SECTION B-B

NOTES

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

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Frames and Grates To Be Adjusted	Each	2



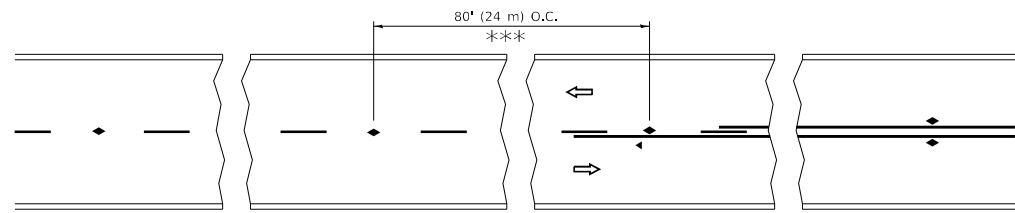
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PLOT DATE = 12/28/2021	DRAWN - AHT	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADJUSTING DRAINAGE SCUPPER DETAILS
 US 41 OVER MILL CREEK- SN 049-0028 & SN 049-0184**

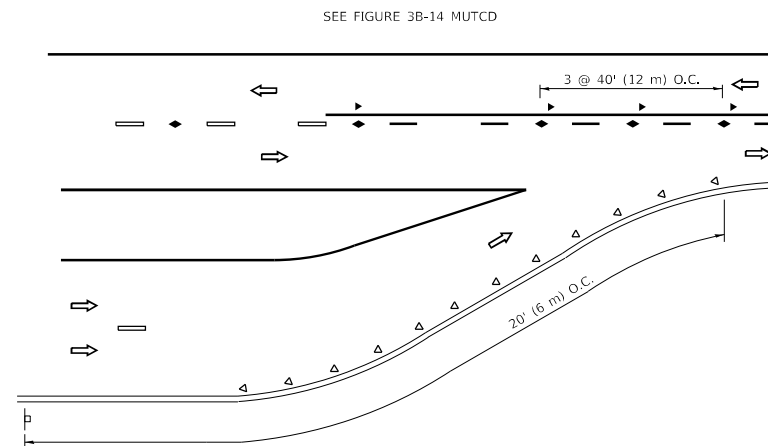
SHEET 8 OF 8 SHEETS

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ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M58	

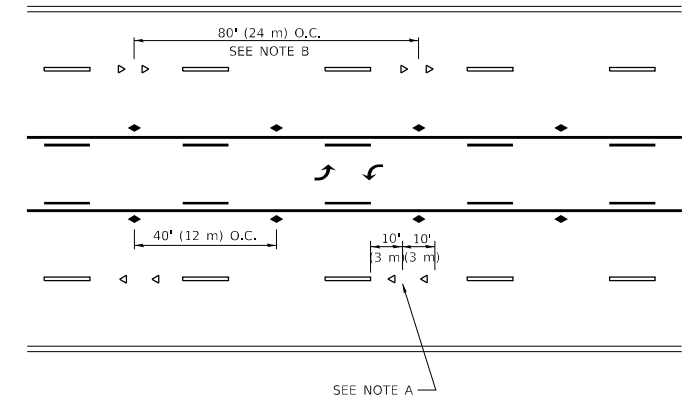


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

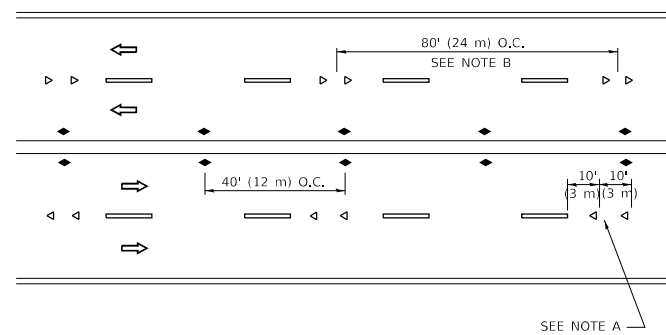
TWO-LANE/TWO-WAY



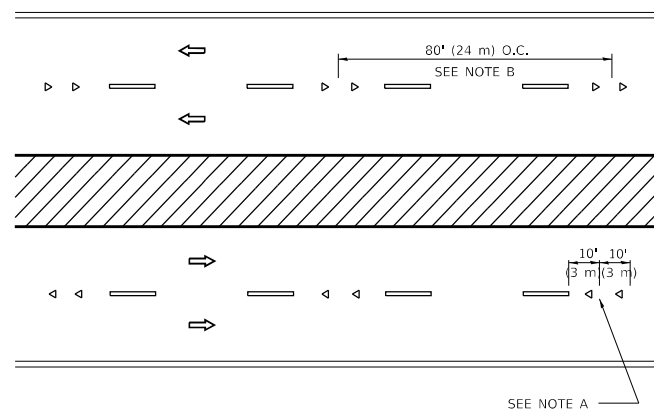
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

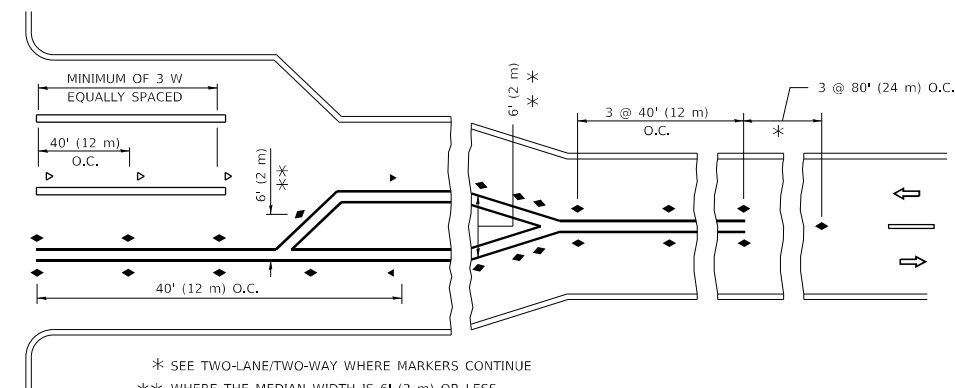
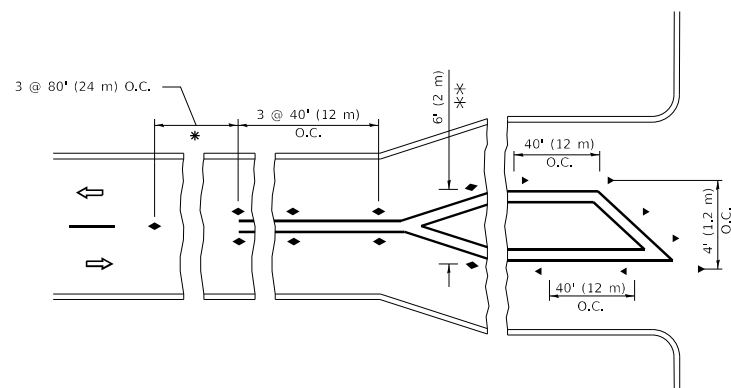
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



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

TURN LANES

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

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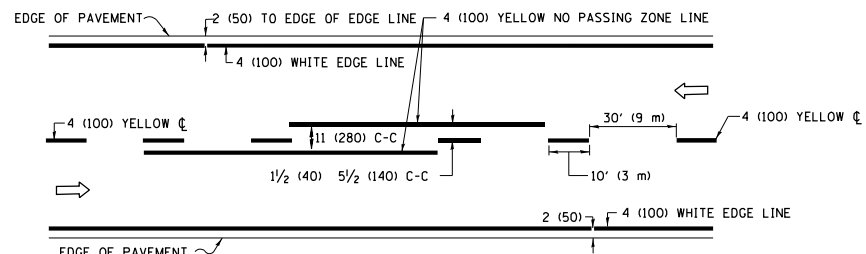
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

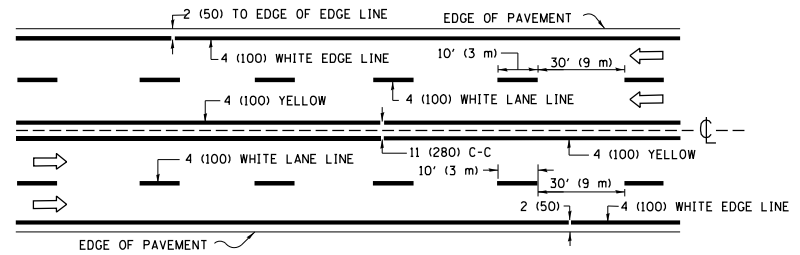
**TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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

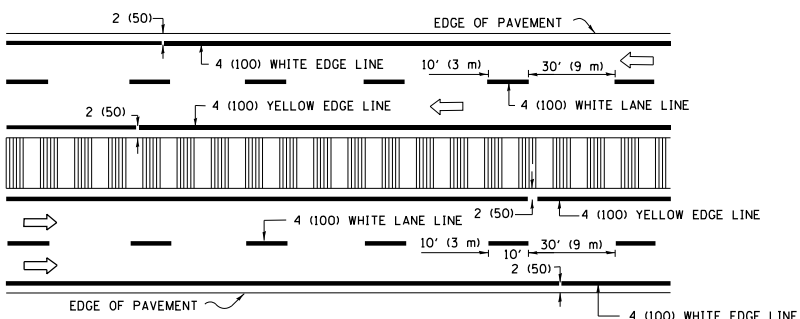
F.A.P. RTE. 346	SECTION 2020-176-BR	COUNTY LAKE	TOTAL SHEETS 30	SHEET NO. 26
TC-11		CONTRACT NO. 62M58		
ILLINOIS		FED. AID PROJECT		



2-LANE ROADWAY

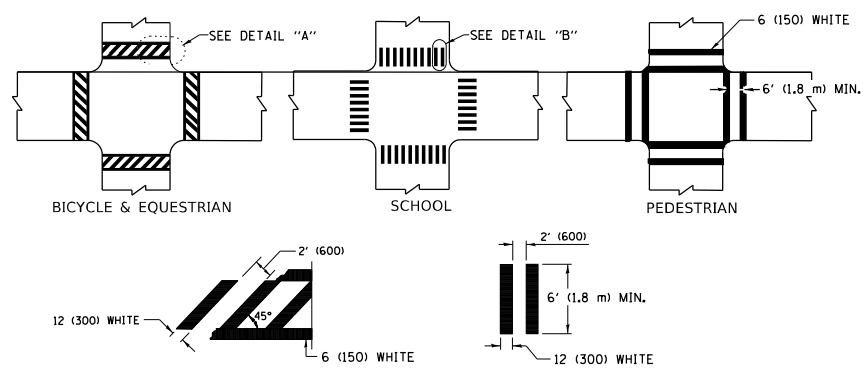


MULTI-LANE UNDIVIDED



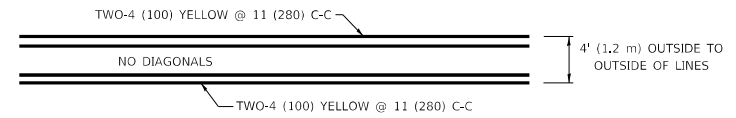
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

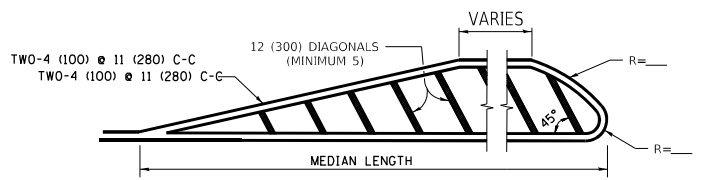


TYPICAL CROSSWALK MARKING

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

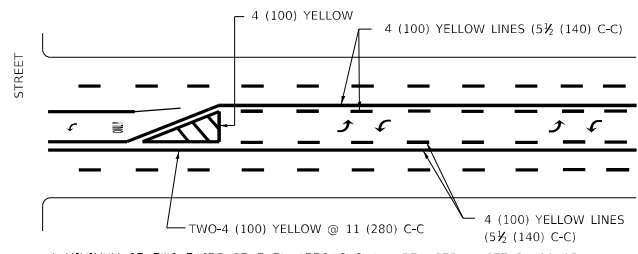


4' (1.2 m) WIDE MEDIANS ONLY



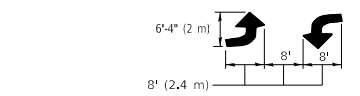
MEDIANS OVER 4' (1.2 m) WIDE

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



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

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

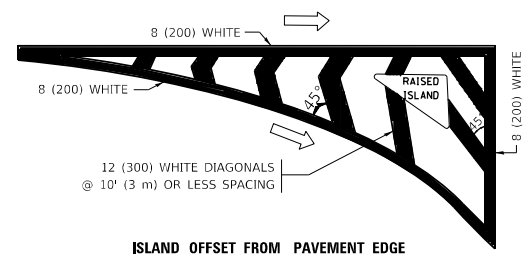


TYPICAL LEFT (OR RIGHT) TURN LANE

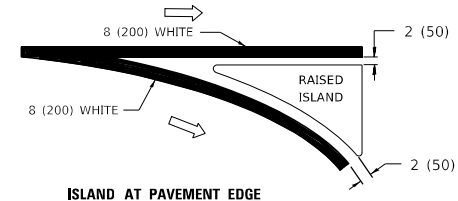
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

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

TYPICAL TURN LANE MARKING

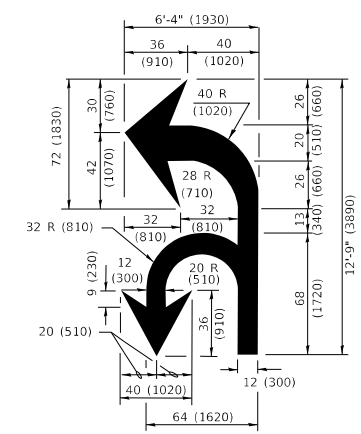


ISLAND OFFSET FROM PAVEMENT EDGE

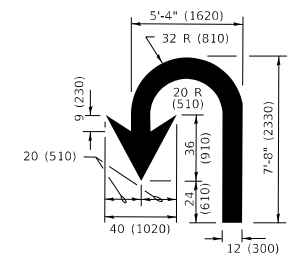


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

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

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

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

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

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

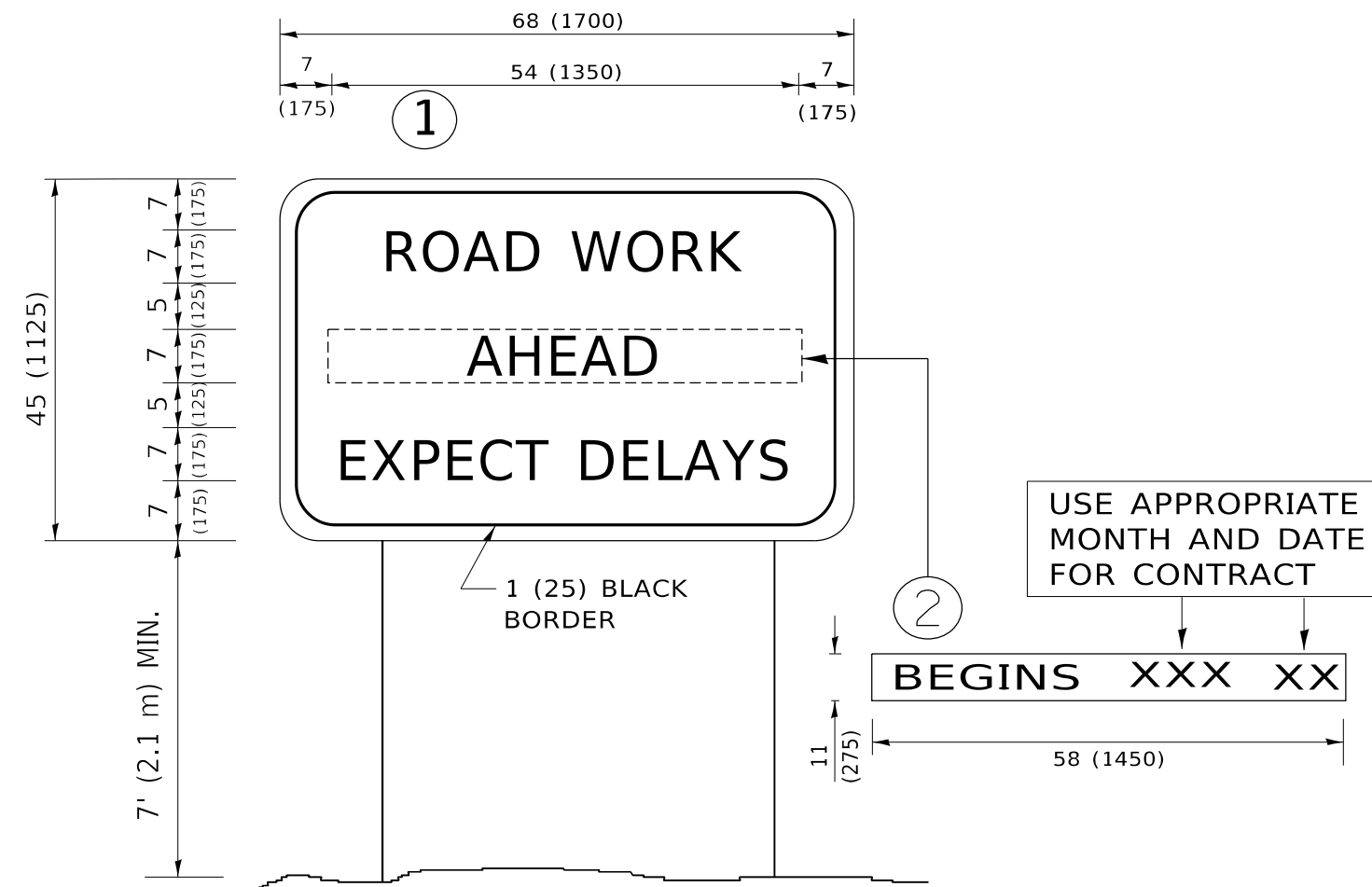
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		REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: NONE		SHEET 1 OF 2 SHEETS		STA. TO STA.	
DISTRICT ONE TYPICAL PAVEMENT MARKINGS					

F.A.P. RITE. 346	SECTION 2020-176-BR	COUNTY LAKE	TOTAL SHEETS 30	SHEET NO. 27
TC-13		CONTRACT NO. 62M58		
ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

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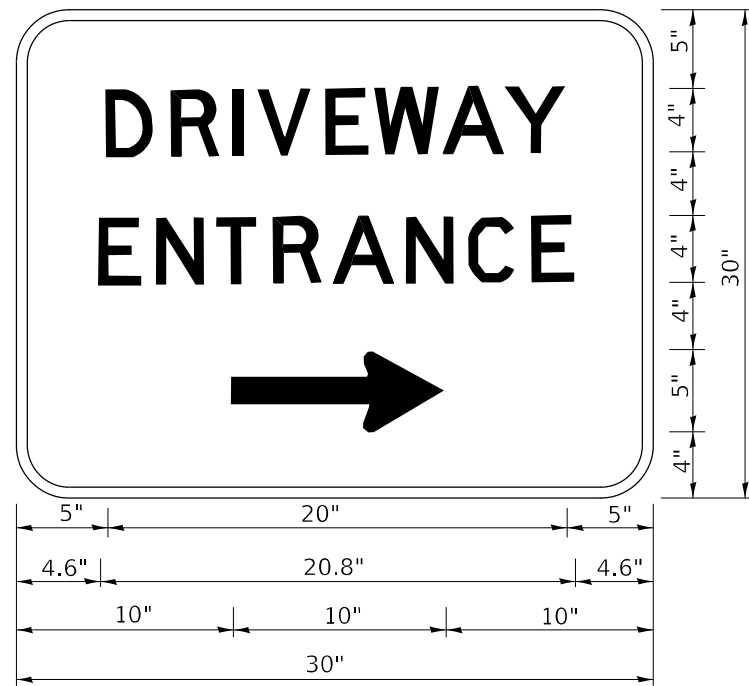
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	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2020-176-BR	LAKE	30	28
TC-22			CONTRACT NO. 62M58	
ILLINOIS FED. AID PROJECT				



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

NOTES:

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

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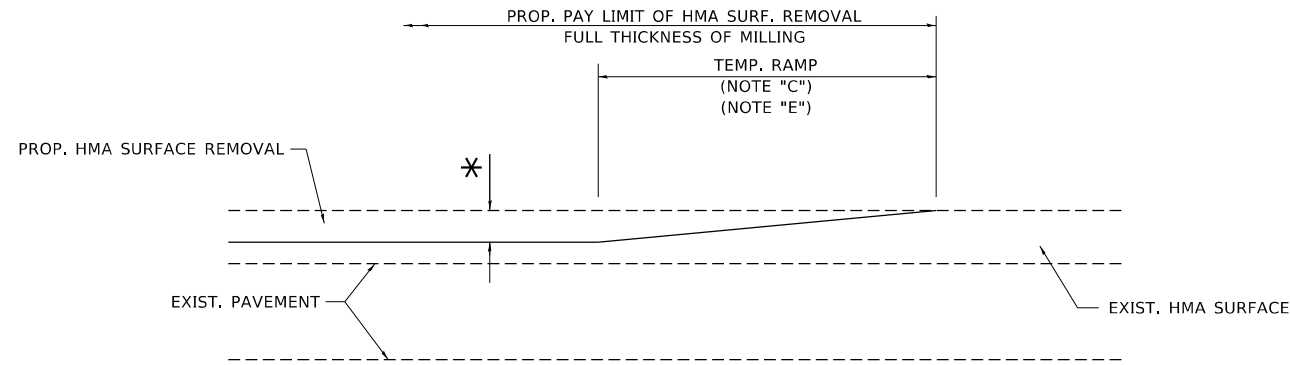
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	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRIVEWAY ENTRANCE SIGNING

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

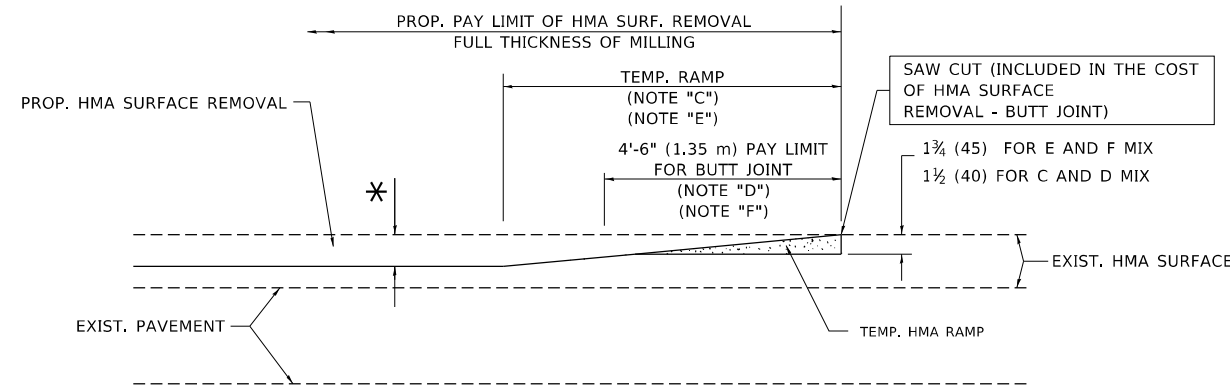
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2020-176-BR	LAKE	30	29
TC-26			CONTRACT NO. 62M58	
ILLINOIS		FED. AID PROJECT		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

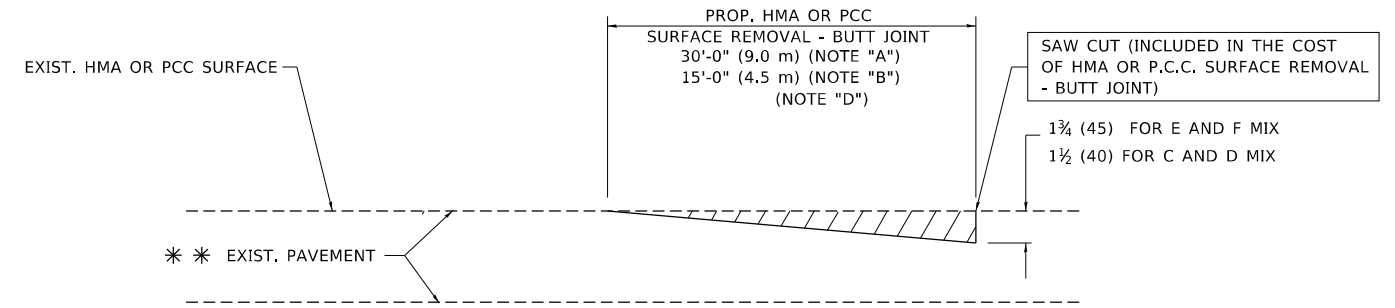


HMA CONSTRUCTED TEMPORARY RAMP

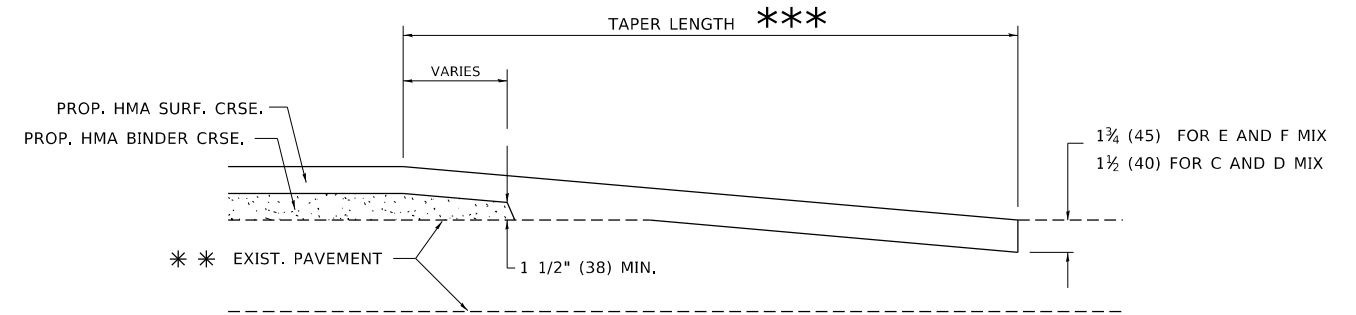
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

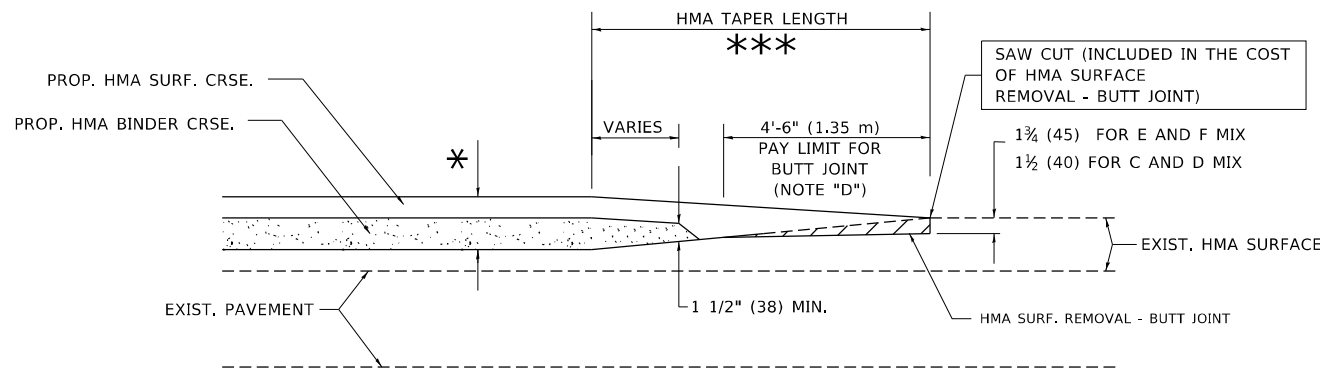
NOTES

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

BASIS OF PAYMENT

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

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
PLOT DATE = 3/27/2019	DATE - 06-13-90	REVISED - R.BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2020-176-BR	LAKE	30	30
BD400-05 BD32		CONTRACT NO. 62M58		
ILLINOIS FED. AID PROJECT				