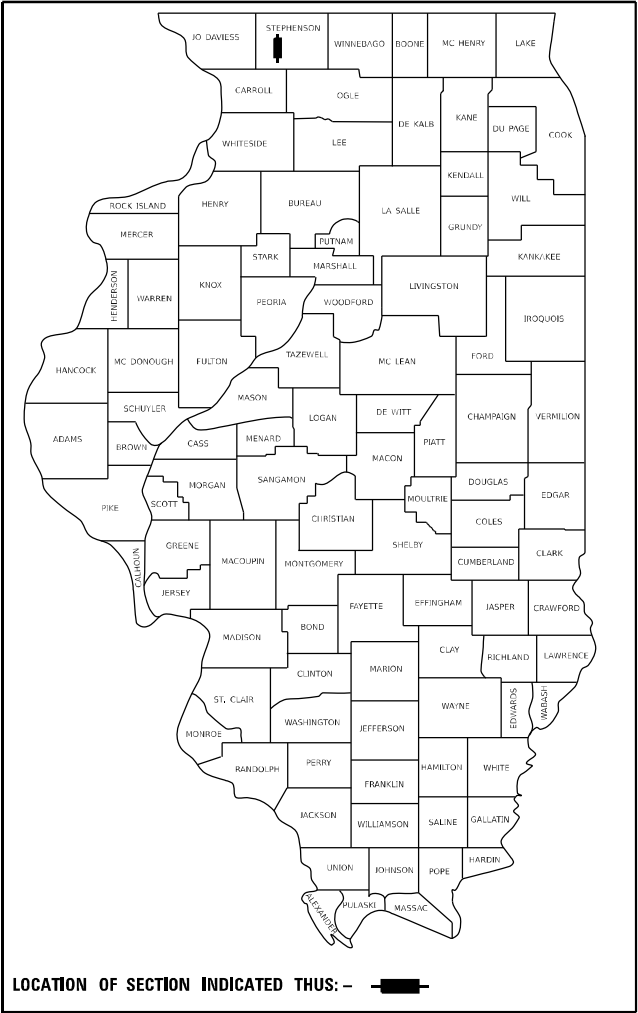



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107BR-1)BDR	STEPHENSON	37	1
		ILLINOIS	CONTRACT NO. 64T98	

D-92-072-25



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -



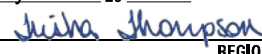
QUANDEL
CONSULTANTS


161 NORTH CLARK STREET
SUITE 2975
CHICAGO, IL 60601
312-634-6201


DESIGN FIRM - PROF/STRUCT ENGINEER
IL LIC. 184005283-0006

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 9 20 25


REGIONAL ENGINEER


ENGINEER OF DESIGN AND ENVIRONMENT


DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

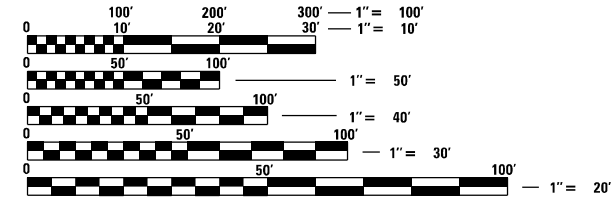
FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR STATE STANDARDS, SEE SHEET NO. 2

PROPOSED
HIGHWAY PLANS

FAP ROUTE 654 (IL 73)
SECTION (107BR-1)BDR
PROJECT
REPAIR OF STRUCTURE SN 089-0068
CARRYING IL 73 OVER TRIB. YELLOW CREEK
STEPHENSON COUNTY

C-92-197-24

KENT TOWNSHIP
T27N R6E, SECTIONS 8 & 9



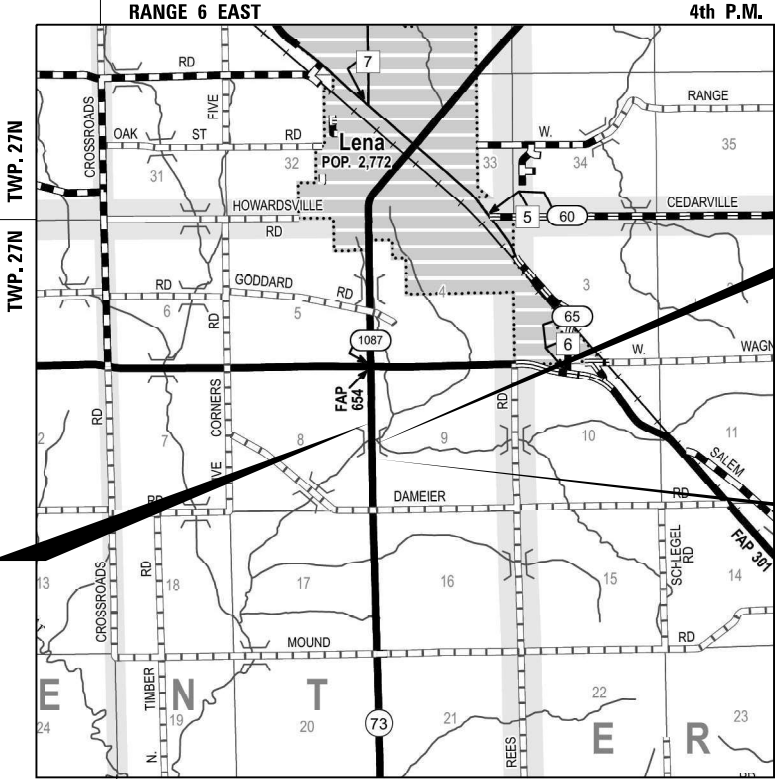
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: JAMES R. PUSH, PE
PROJECT MANAGER: DERRICK LOPEZ, PE

CONTRACT NO. 64T98

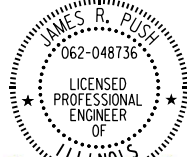
IMPROVEMENTS BEGINS
Sta. 111 + 23.50



BRIDGE REPAIRS
EXIST SN 089-0068

IMPROVEMENTS ENDS
Sta. 115 + 49.50

GROSS LENGTH = 424.00 FT. = 0.080 MILE
NET LENGTH = 424.00 FT. = 0.080 MILE



James R. Push
JAMES R. PUSH, P.E.
LICENSE NO.: 062-048736
EXPIRES: NOVEMBER 30, 2025

DATE: 02/09/2025

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		DRAWN	- JRP	REVISED	-
		CHECKED	- JRP	REVISED	-
PLOT DATE	= 2/8/2025	DATE	- 02/08/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
IL 73 OVER TRIBUTARY TO YELLOW CREEK

SCALE: 1" = 20'
SHEET 1 OF 1 SHEETS
STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107BR-1)BDR	STEPHENSON	37	2
		CONTRACT NO. 64T98		
		ILLINOIS	FED. AID PROJECT	

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
3 - 6	SUMMARY OF QUANTITIES
7 - 8	SCHEDULES
9 - 13	MAINTENANCE OF TRAFFIC PLANS
14	REMOVAL PLAN
15	ROADWAY PLAN
16 - 27	STRUCTURE REPAIR PLANS SN 098-0068
28	PAVEMENT MARKING PLAN
29 - 32	WORK ZONE SIGN DETAILS (DISTRICT STD 34.1)
33 - 36	TYPICAL PAVEMENT MARKINGS (DISTRICT STD 41.1)
37	GUARDRAIL REFLECTORS, TYPE C (SPECIAL) (DISTRICT STD 55.1)

STATE STANDARDS

000001-08	STANDARDS SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMALS OF AN INCH AND OF A FOOT
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
630001-13	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
642006-01	SHOULDER RUMBLE STRIPS, 8 IN
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24"(600 MM) FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701321-19	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-10	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAIL

GENERAL NOTES

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE RESIDENT ENGINEER FOR APPROVAL BEFORE THIS PROJECT IS STARTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.

IDOT IS NOT A MEMBER OF JULIE. IF YOU ARE NEAR ANY OVERHEAD LIGHTING, INTERSECTION LIGHTING OR TRAFFIC SIGNALS, CONTACT THE IDOT TRAFFIC OFFICE AT 815-284-5469 AT LEAST 48 HOURS PRIOR TO WORK.

NO STREAM PERMITS HAVE BEEN PROCURED FOR THIS PROJECT. NONE ARE REQUIRED FROM THE REGULATORY AGENCIES IF THERE IS NO DEBRIS FALLING OR BEING PLACED INTO THE STREAM. ANY TEMPORARY FILL IN THE STREAM OR THE COMPROMISING OF THE DIKE (IF APPLICABLE) WILL NOT BE ALLOWED. IF THE CONTRACTOR CHOOSES TO USE ALTERNATE/MODIFIED CONSTRUCTION METHOD(S), THEY WILL BE RESPONSIBLE FOR OBTAINING THE PROPER PERMITS. NO RELIEF OR COMPENSATION WILL BE GIVEN FOR ANY DELAYS, WORKING DAYS CHARGED OR CALENDAR DAYS EXPIRED DUE TO THE LOSS OF TIME OR DELAY DURING THE RE-SUBMITTAL PROCESS TO PROCURE THE NECESSARY PERMIT(S) DUE TO THE CONTRACTOR CHOOSING ALTERNATE/MODIFIED CONSTRUCTION METHOD(S). ABSOLUTELY NO CONSTRUCTION ACTIVITIES WILL TAKE PLACE WITHOUT THE PROPER PERMITS BEING SECURED.

ALL ELEVATIONS SHOWN IN PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT.

IDOT DISTRICT 2 OPERATIONS TRAFFIC SIGNAL SECTION SHALL BE CONTACTED AT 815-284-5474 FOR CONTROLLER PROGRAMMING AND TIMING APPROVAL PRIOR TO ACTIVATING THE TEMPORARY BRIDGE TRAFFIC SIGNALS.

ALL SAW CUTS NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED.

PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:

- ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
- ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
- THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
- CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI-LANE DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.

UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A LONGITUDINAL CRACK OR JOINT NOR OVER A TAR OR ASPHALT PAINTED LINE.

- THE EDGE OF A CENTERLINE OR LANE LINE SHALL BE OFFSET A MINIMUM DISTANCE OF 2" FROM A LONGITUDINAL CRACK OR JOINT.
- EDGE LINES SHALL BE APPROXIMATELY 2" FROM THE EDGE LINE OF PAVEMENT. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.

AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S):	HMA SURFACE CSE	HMA SHOULDERS LOWER LIFTS
PG:	PG 58 -28	PG 58 -28
DESIGN AIR VOIDS:	4.0% @ N DESIGN - 50	4.0% @ N DESIGN - 50
MIXTURE COMPOSITION:	IL 9.5	IL 19.0
FRICTION AGGREGATE:	C	N/A
QUALITY MANAGEMENT PROGRAM:	112 LB/SY/IN	N/A
MIX WEIGHT	QC / QA	QC / QA
SUBLOT SIZE:	N / A	N / A
MATERIAL TRANSFER DEVICE:	N / A	N / A

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) - APPLICATION RATES *	
SURFACE TYPE	RESIDUAL RATE
MILLED (HMA - PCC)	0.05 LB/SQ FT
EXISTING PAVEMENT	0.05 LB/SQ FT
FOG COAT (BETWEEN LIFTS)	0.05 LB/SQ FT

* Polymer tack shall be SS-1hP, CSS-1hP, or NTEA listed material

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				STEPHENSON COUNTY FUNDING: 100% STATE	
				ROADWAY 0006	BRIDGE 0059
				ROADWAY	SN 089-0068
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	7	7	
28100809	STONE DUMPED RIPRAP, CLASS A5	TON	296		296
28200200	FILTER FABRIC	SQ YD	154		154
40600370	LONGITUDINAL JOINT SEALANT	FOOT	626	626	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	15	15	
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	47	47	
40800031	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	478	478	
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	23		23
44000100	PAVEMENT REMOVAL	SQ YD	104		104
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	387	387	
44004250	PAVED SHOULDER REMOVAL	SQ YD	209	209	
44213200	SAW CUTS	FOOT	632	632	
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	209	209	
50102400	CONCRETE REMOVAL	CU YD	4.0		4.0
50200100	STRUCTURE EXCAVATION	CU YD	75		75
50300225	CONCRETE STRUCTURES	CU YD	27.4		27.4

* DENOTES SPECIALTY ITEM



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
IL 73 OVER TRIBUTARY TO YELLOW CREEK			
SCALE: N.T.S.	SHEET 1	OF 4 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107BR-1)BDR	STEPHENSON	37	3
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				STEPHENSON COUNTY FUNDING: 100% STATE	
				ROADWAY 0006	BRIDGE 0059
				ROADWAY	SN 089-0068
50300300	PROTECTIVE COAT	SQ YD	430		430
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	96.8		96.8
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	43,257		43,257
50800515	BAR SPLICERS	EACH	298		298
50800530	MECHANICAL SPLICERS	EACH	48		48
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	80		80
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	77		77
59000200	EPOXY CRACK INJECTION	FOOT	50		50
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	48		48
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	104		104
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	287.50	287.50	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	588	588	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3	
67100100	MOBILIZATION	L SUM	1	1	

* DENOTES SPECIALTY ITEM



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	CHECKED - JRP	REVISED -
PLOT DATE = 2/8/2025	DATE - 02/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
IL 73 OVER TRIBUTARY TO YELLOW CREEK			
SCALE: N.T.S.	SHEET 2	OF 4 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107BR-1)BDR	STEPHENSON	37	4
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				STEPHENSON COUNTY FUNDING: 100% STATE	
				ROADWAY 0006	BRIDGE 0059
				ROADWAY	SN 089-0068
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	6	6	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	12	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	782	782	
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	2,196	2,196	
70307210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE IV TAPE	FOOT	24	24	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	418.11	418.11	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	418.11	418.11	
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE,NARROW), TEST LEVEL 3	EACH	2	2	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2,992	2,992	

* DENOTES SPECIALTY ITEM



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PLOT DATE = 2/8/2025	DATE - 02/10/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
IL 73 OVER TRIBUTARY TO YELLOW CREEK			
SCALE: N.T.S.	SHEET 3	OF 4 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107BR-1)BDR	STEPHENSON	37	5
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				STEPHENSON COUNTY FUNDING: 100% STATE	
				ROADWAY 0006	BRIDGE 0059
				ROADWAY	SN 089-0068
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	413	413	
Z0001495	BRIDGE APPROACH SHOULDER REMOVAL	SQ YD	20		20
Z0004552	APPROACH SLAB REMOVAL	SQ YD	116		116
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	260		260
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	260		260
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	3		3
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	5		5
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	422		422
X0325318	LIGHTWEIGHT CELLULAR CONCRETE FILL	CU YD	13		13
X2010505	CLEARING (SPECIAL)	L SUM	1		1
X2810844	REMOVE EXISTING RIPRAP	SQ YD	16		16
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	355		355
* X7820007	GUARDRAIL REFLECTORS, TYPE C (SPECIAL)	EACH	8	8	

* DENOTES SPECIALTY ITEM

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LOCATION			70300150	70307120	70307210	70400100	70400200	70600251	70600352	78001110	78300202	
			SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE IV TAPE	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	PAINT PAVEMENT MARKING - LINE 4"	PAVEMENT MARKING REMOVAL - WATER BLASTING	
STA.	STA.	OFFSET	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	FOOT	SQ FT
STAGE 1 MOT												
111+31	115+44	12' RT										138
111+31	112+12	12' LT										27
114+64	115+44	12' LT										27
109+59	112+12	CL										108
114+64	114+87	CL										16
114+87	117+16	CL										97
109+59		RT			12							
111+31	115+44	12' RT - - 15' RT	138	414								
110+19	111+67	12' LT - 4' RT	50	149								
111+67	115+09	4' RT	114	342								
115+09	117+01	4' RT - 12' LT	65	193								
117+17		LT			12							
111+50.00		6' LT						1				
111+29.00	112+17.39	LT				88.69						
112+17.39	114+58.12	4' RT				240.73						
114+58.12	115+20.12	LT				88.69						
115+20.12		6' LT						1				
STAGE 2 MOT												
109+59		RT	24									
111+31	115+44	12' LT - 15' LT	138	414								
109+75	111+67	12' RT - 4' LT	65	193								
111+67	115+09	4' LT	114	342								
115+09	116+57	4' LT - 12' RT	50	149								
117+17		LT	24									
111+50.00		6' LT							1			
111+29.00	112+17.39	LT					88.69					
112+17.39	114+58.12	3' RT					240.73					
114+58.12	115+20.12	LT					88.69					
115+20.12		6' LT							1			
Post-Stage												
109+00	118+00	12' LT								900		
109+00	114+68	CL								718		
114+68	118+00	CL								422		
109+00	118+00	12' RT								900		
TOTAL			782	2196	24	418.11	418.11	2	2	2940	413	
									2nd APPLICATION	2940		
									TOTAL	5880		

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LOCATION				20200600	40800031	40600370	40603080	40604050	44000155	44004250	44213200	48203023	
				EXCAVATING AND GRADING EXISTING SHOULDER	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	LONGITUDINAL JOINT SEALANT	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	PAVED SHOULDER REMOVAL	SAW CUTS	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	
STA.	STA.	OFFSET		UNIT	POUND	FOOT	TON	TON	SQ YD	SQ YD	FOOT	SQ YD	
SHOULDERS													
111+23.5	112+68.5	13'-16'	LI	1.5	43.5	145		4.1		48.4	145	48.4	
111+21.0	112+89.3	13'-16'	RT	1.7	65.5	169	0.8	4.8	20.0	56.1	172	56.1	
114+07.2	115+49.5	13'-16'	LT	1.5	42.7	143		4.0		47.5	143	47.5	
113+86.2	115+55.0	13'-16'	RT	1.7	65.7	169	0.8	4.8	20.0	56.3	172	56.3	
MAINLINE													
112+11.3	112+71.3	CL-13'	LT		65.0		3.3	7.3	86.7				
112+11.3	112+71.3	CL-13'	RT		65.0		3.3	7.3	86.7				
114+04.2	114+64.2	CL-13'	LT		65.0		3.3	7.3	86.7				
114+04.2	114+64.2	CL-13'	RT		65.0		3.3	7.3	86.7				
				TOTAL	6.4	477.4	626	14.8	46.9	386.8	208.3	632	208.3
				USE	7	478	626	15	47	387	209	632	209

LOCATION			63000001	63100085	63100169	63200310	72501000	X7820007
			STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	GUARDRAIL REMOVAL	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE C (SPECIAL)
STA.	STA.	LOC.	FOOT	EACH	EACH	FOOT	EACH	SQ FT
111+79.00	113+04.00	LT				125		
113+71.00	115+34.00	LT				163		
111+29.00	113+04.00	RT				175		
113+71.00	114+96.00	RT				125		
111+76.98	112+14.48	LT			1		1	
112+14.48	112+64.48	LT	50.00					
112+64.48	113+01.98	LT		1				
113+73.52	114+11.02	LT		1				
114+11.02	114+98.52	LT	87.5					
114+98.52	115+36.02	LT			1		1	
111+26.98	111+64.48	RT			1		1	
111+64.48	112+64.48	RT	100.0					
112+64.48	113+01.98	RT		1				
113+73.52	114+11.02	RT		1				
114+11.02	114+61.02	RT	50.00					
114+61.02	114+98.52	RT			1		1	
111+76.98	115+36.02	LT						4
111+26.98	114+98.52	RT						4
TOTAL			287.5	4	4	588	4	8



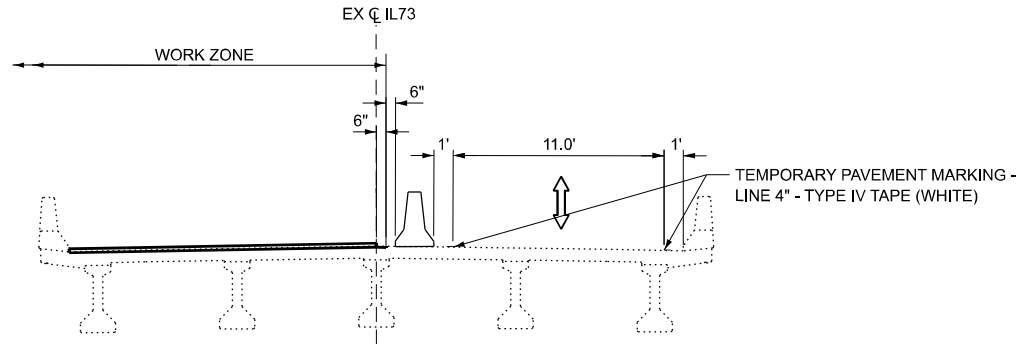
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

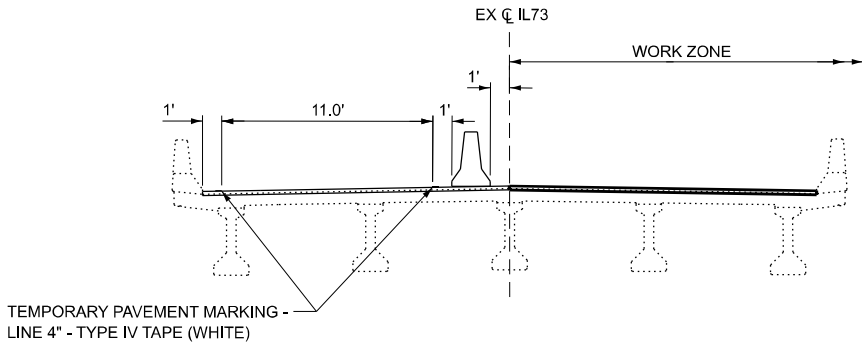
SCHEDULES			
IL 73 OVER TRIBUTARY TO YELLOW CREEK			
SCALE: N.T.S.	SHEET 2	OF 2	SHEETS
STA.		TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107BR-1)BDR	STEPHENSON	37	8
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				

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STAGE 1 TYPICAL SECTION
STA 111+23.50 TO STA 115+49.50
(LOOKING SOUTH)



STAGE 2 TYPICAL SECTION
STA 111+23.50 TO STA 115+49.50
(LOOKING SOUTH)

STAGE CONSTRUCTION NOTES

PRE-STAGE TRAFFIC
CLOSE SOUTHBOUND LANE AS REQUIRED USING HIGHWAY STANDARD 701326.

PRE-STAGE CONSTRUCTION
CONSTRUCT SOUTHBOUND SHOULDER IMPROVEMENT AND GUARDRAIL IMPROVEMENTS AS DETAILED IN PLAN DRAWINGS.

STAGE 1 TRAFFIC
CLOSE NORTHBOUND LANE TRANSITIONING NORTHBOUND AND SOUTHBOUND TRAFFIC INTO THE SOUTHBOUND LANE AND SHOULDER USING HIGHWAY STANDARD 701321 AND AS DETAILED IN THE MAINTENANCE OF TRAFFIC STAGE 1 TYPICAL SECTION AND PLANS.

STAGE 1 CONSTRUCTION
CONSTRUCT BRIDGE REHABILITATION AND BRIDGE APPROACH WORK ON NORTHBOUND LANES AS DETAILED IN THE STRUCTURAL PLANS. CONSTRUCT NORTHBOUND SHOULDER IMPROVEMENTS AND NORTHBOUND ROADWAY PAVEMENT IMPROVEMENTS AS DETAILED IN THE PLANS. CONSTRUCT GUARDRAIL IMPROVEMENTS ON NORTHBOUND SIDE OF ROADWAY AS DETAILED IN THE PLANS.

STAGE 2 TRAFFIC
CLOSE SOUTHBOUND LANE TRANSITIONING NORTHBOUND AND SOUTHBOUND TRAFFIC INTO THE NORTHBOUND LANE AND SHOULDER USING HIGHWAY STANDARD 701321 AND AS DETAILED IN THE MAINTENANCE OF TRAFFIC STAGE 2 TYPICAL SECTION PLANS.

STAGE 2 CONSTRUCTION
CONSTRUCT BRIDGE REHABILITATION AND BRIDGE APPROACH WORK ON SOUTHBOUND LANES AS DETAILED IN THE STRUCTURAL PLANS. CONSTRUCT SOUTHBOUND ROADWAY PAVEMENT IMPROVEMENTS AS DETAILED IN THE PLANS.

POST-STAGE TRAFFIC
USE HIGHWAY STANDARD 701311 FOR TRAFFIC CONTROL.

POST-STAGE CONSTRUCTION
CONDUCT WORKSITE CLEANUP AND PLACE FINAL PAVEMENT MARKINGS.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS AND NOTES
IL 73 OVER TRIBUTARY TO YELLOW CREEK

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107BR-1)BDR	STEPHENSON	37	9
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				

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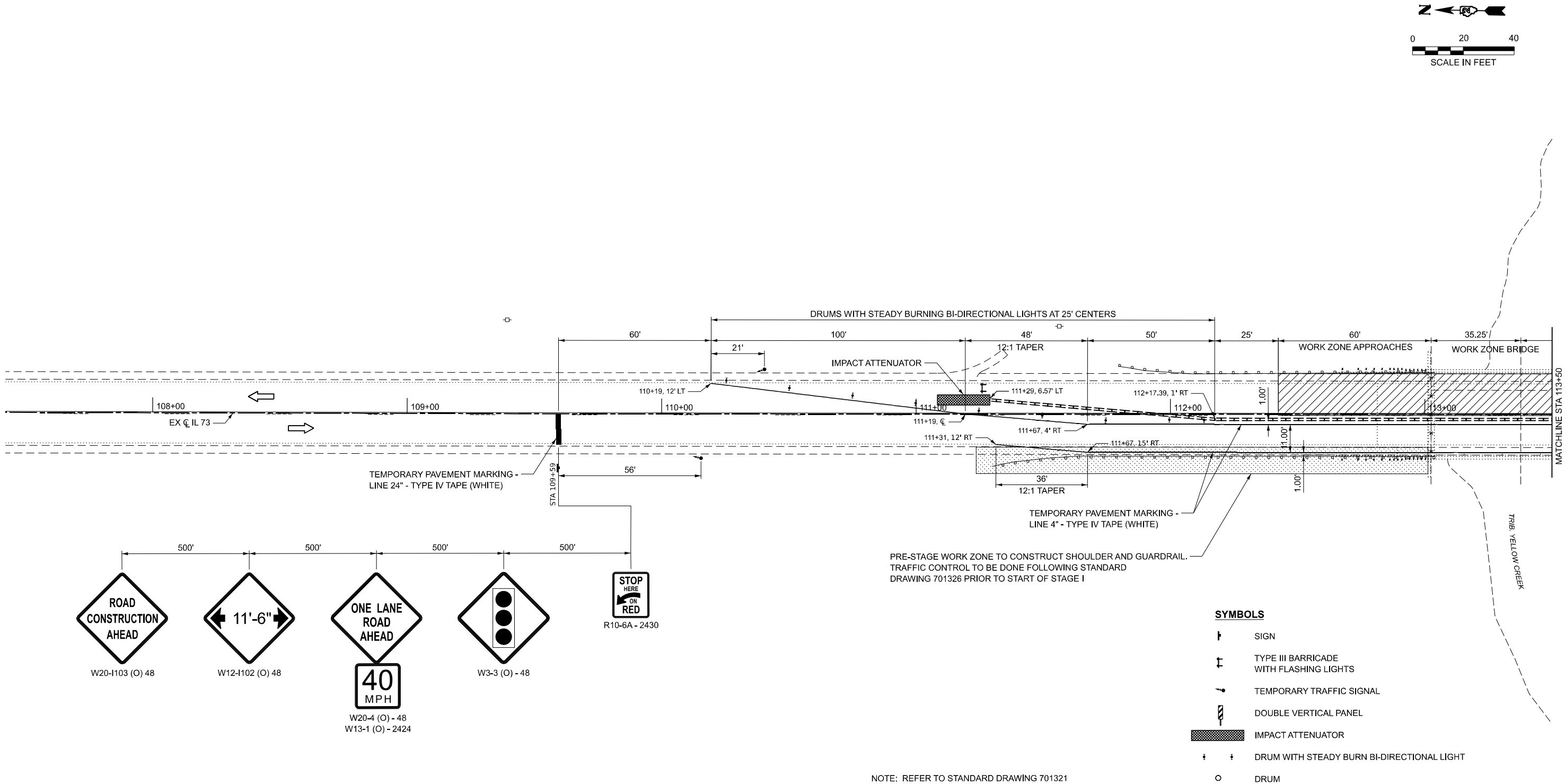
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - STAGE 1 PLANS
IL 73 OVER TRIBUTARY TO YELLOW CREEK

SCALE: 1" = 20' SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107BR-1)BDR	STEPHENSON	37	10
				CONTRACT NO. 64T98
		ILLINOIS	FED. AID PROJECT	



NOTE: REFER TO STANDARD DRAWING 701321
FOR DETAILS NOT SHOWN.
BARRIER WALL OFFSETS ARE TO THE
CONSTRUCTION SIDE.

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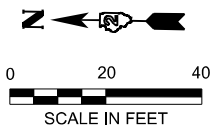
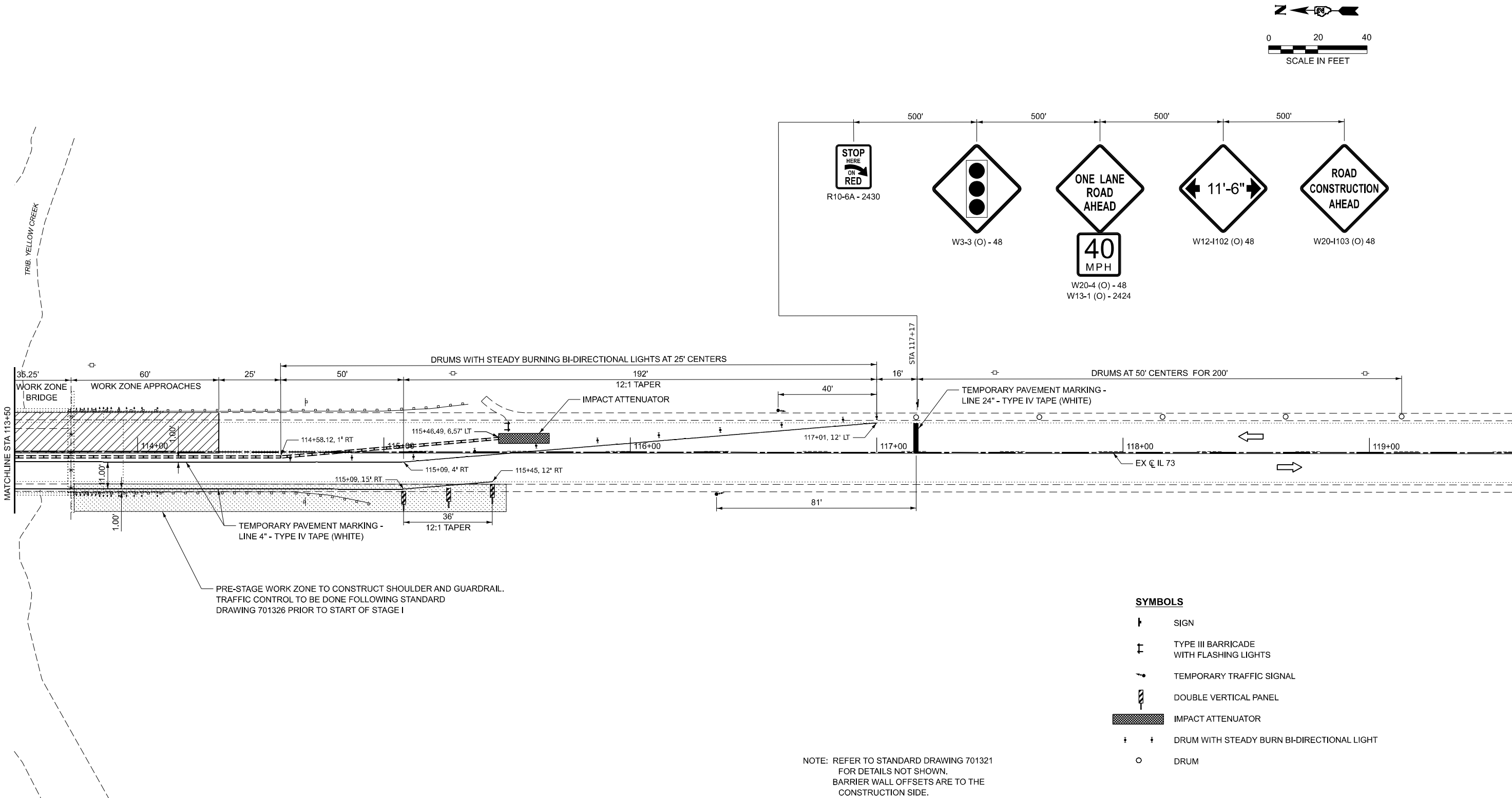
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

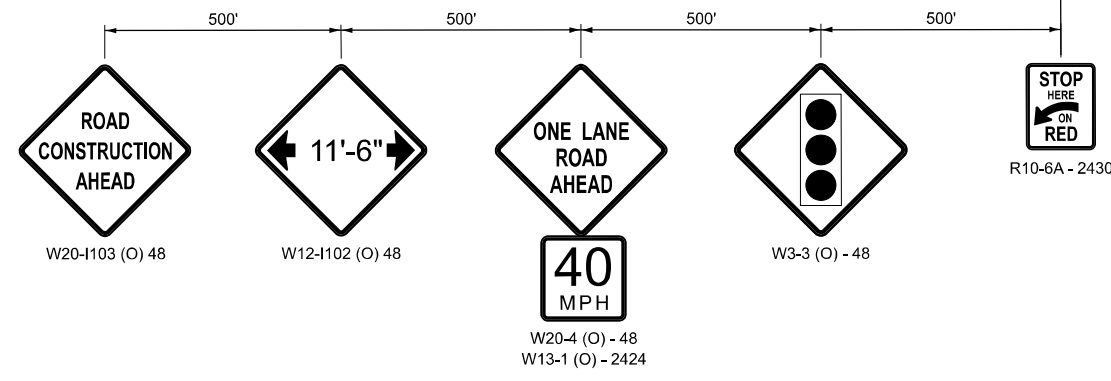
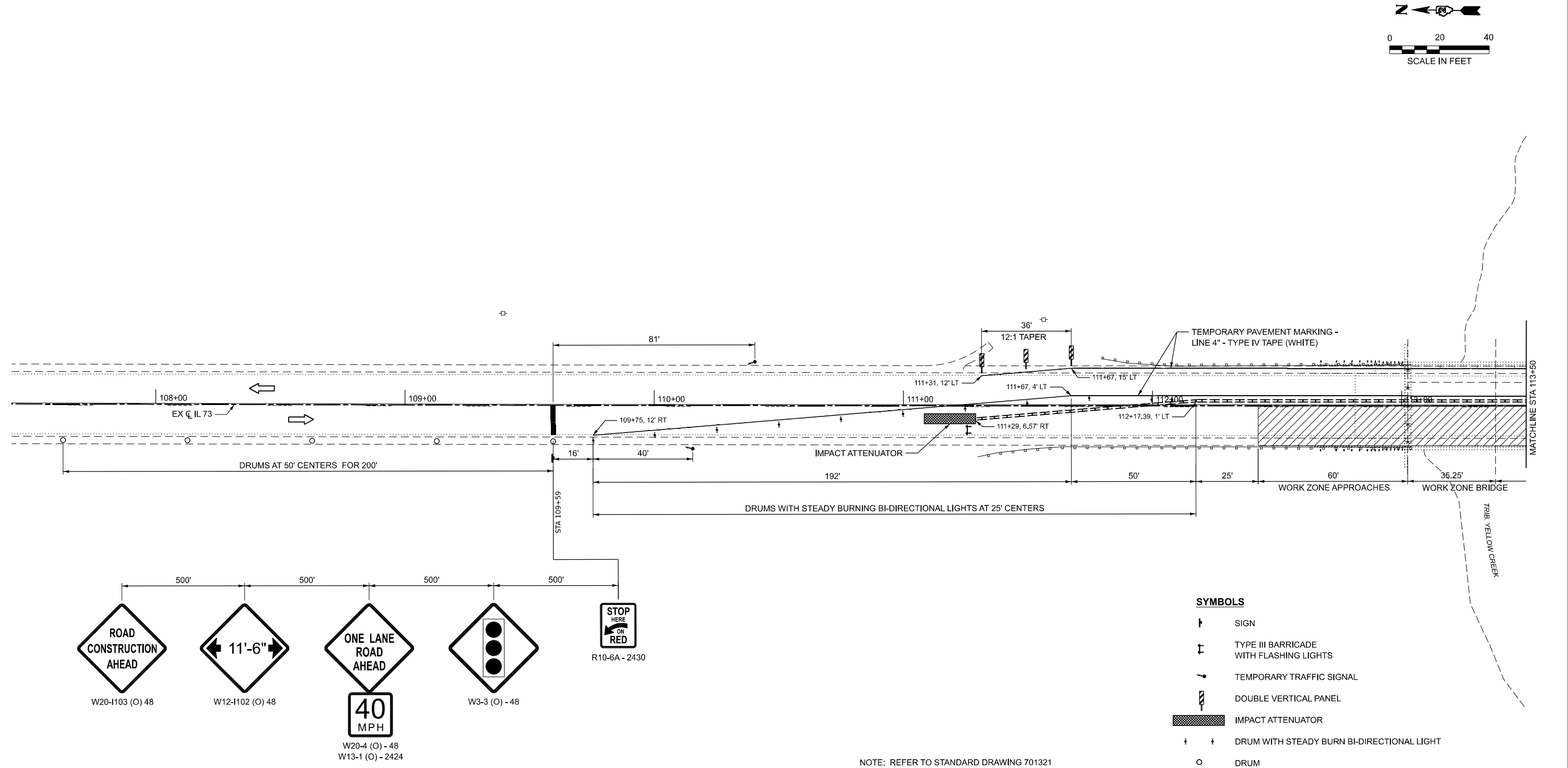
MAINTENANCE OF TRAFFIC - STAGE 1 PLANS
IL 73 OVER TRIBUTARY TO YELLOW CREEK

SCALE: 1" = 20' SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107BR-1)BDR	STEPHENSON	37	11
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				



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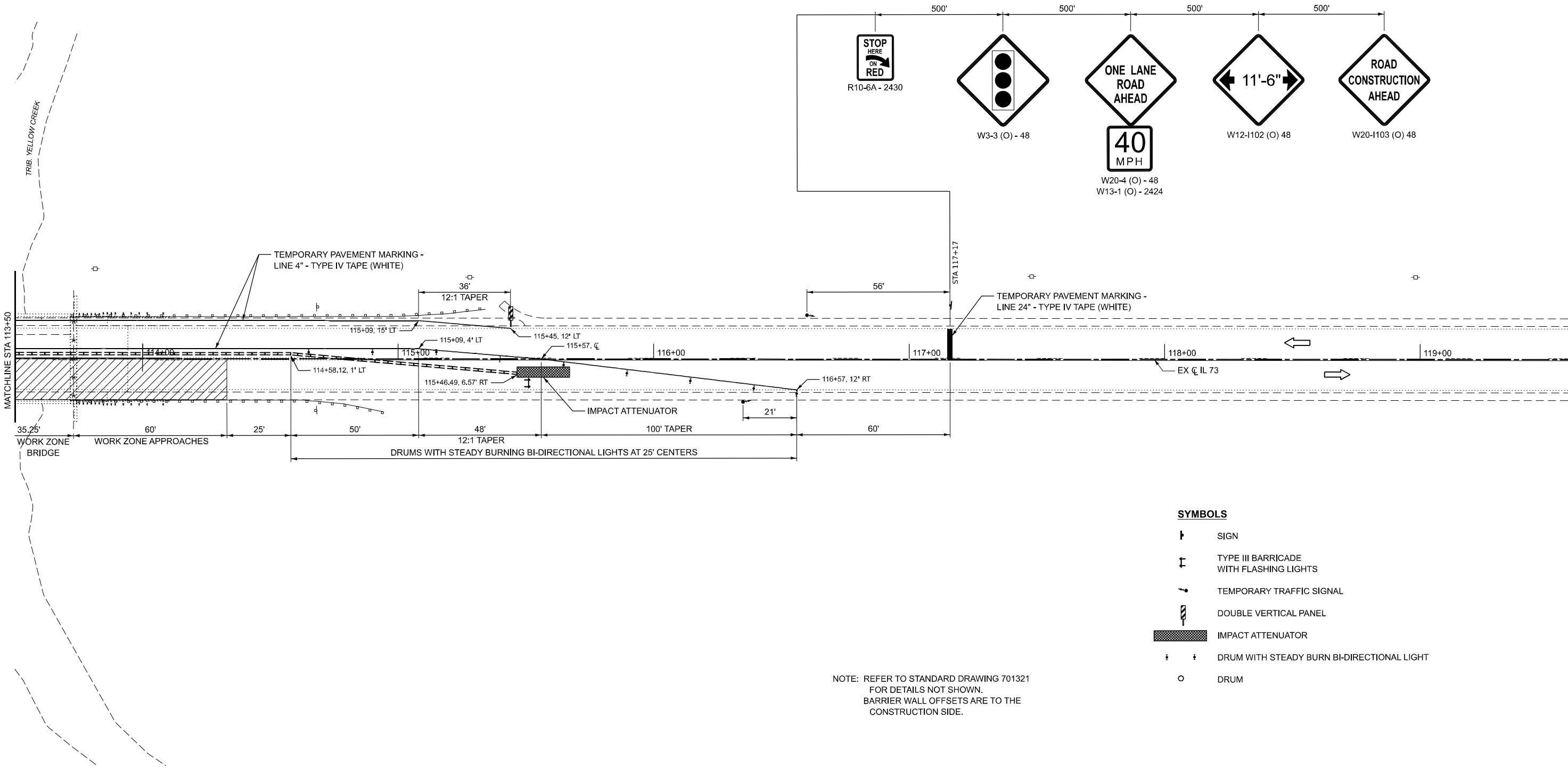
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PLOT DATE	= 2/8/2025	DATE -	02/08/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - STAGE 2 PLANS
IL 73 OVER TRIBUTARY TO YELLOW CREEK

SCALE: 1" = 20' SHEET 5 OF 5 SHEETS STA. TO STA.

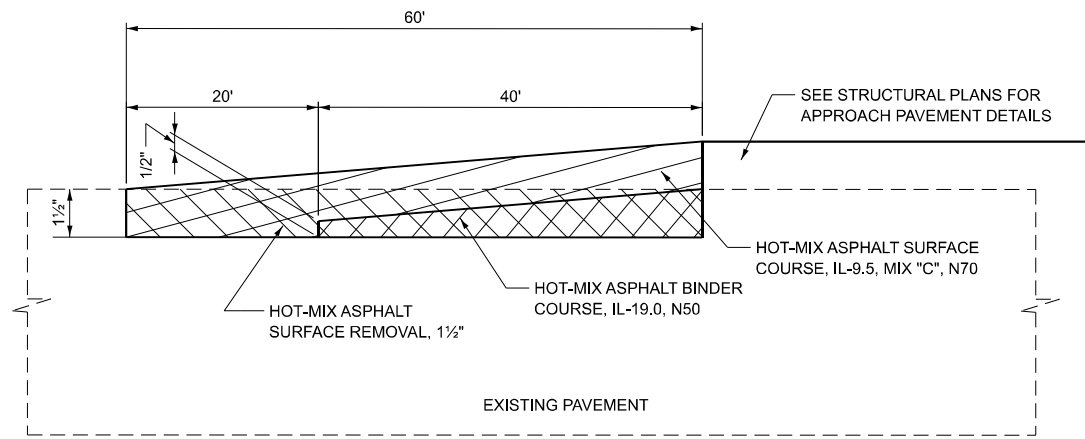
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654	(107BR-1)BDR	STEPHENSON	37	13
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				



NOTE: REFER TO STANDARD DRAWING 701321
FOR DETAILS NOT SHOWN.
BARRIER WALL OFFSETS ARE TO THE
CONSTRUCTION SIDE.

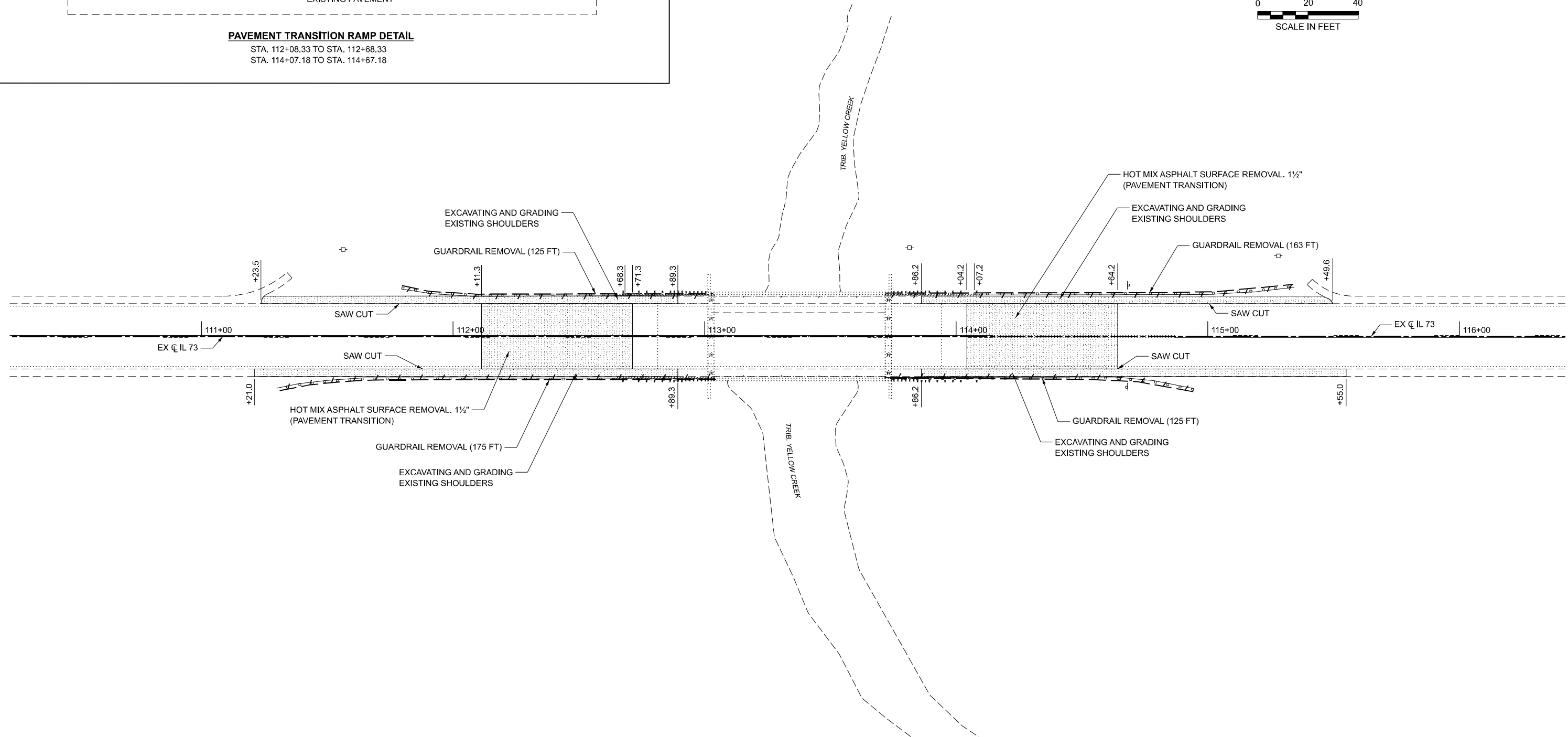
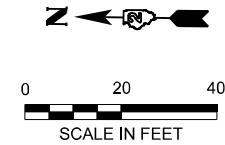
SYMBOLS

- SIGN
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY TRAFFIC SIGNAL
- DOUBLE VERTICAL PANEL
- IMPACT ATTENUATOR
- DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
- DRUM



PAVEMENT TRANSITION RAMP DETAIL

STA. 112+08.33 TO STA. 112+68.33
STA. 114+07.18 TO STA. 114+67.18



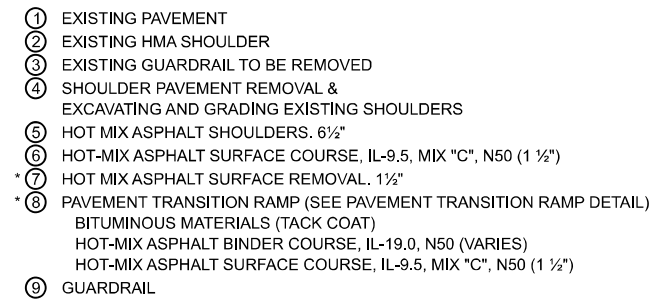
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

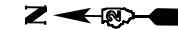
REMOVAL PLAN
IL 73 OVER TRIBUTARY TO YELLOW CREEK

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

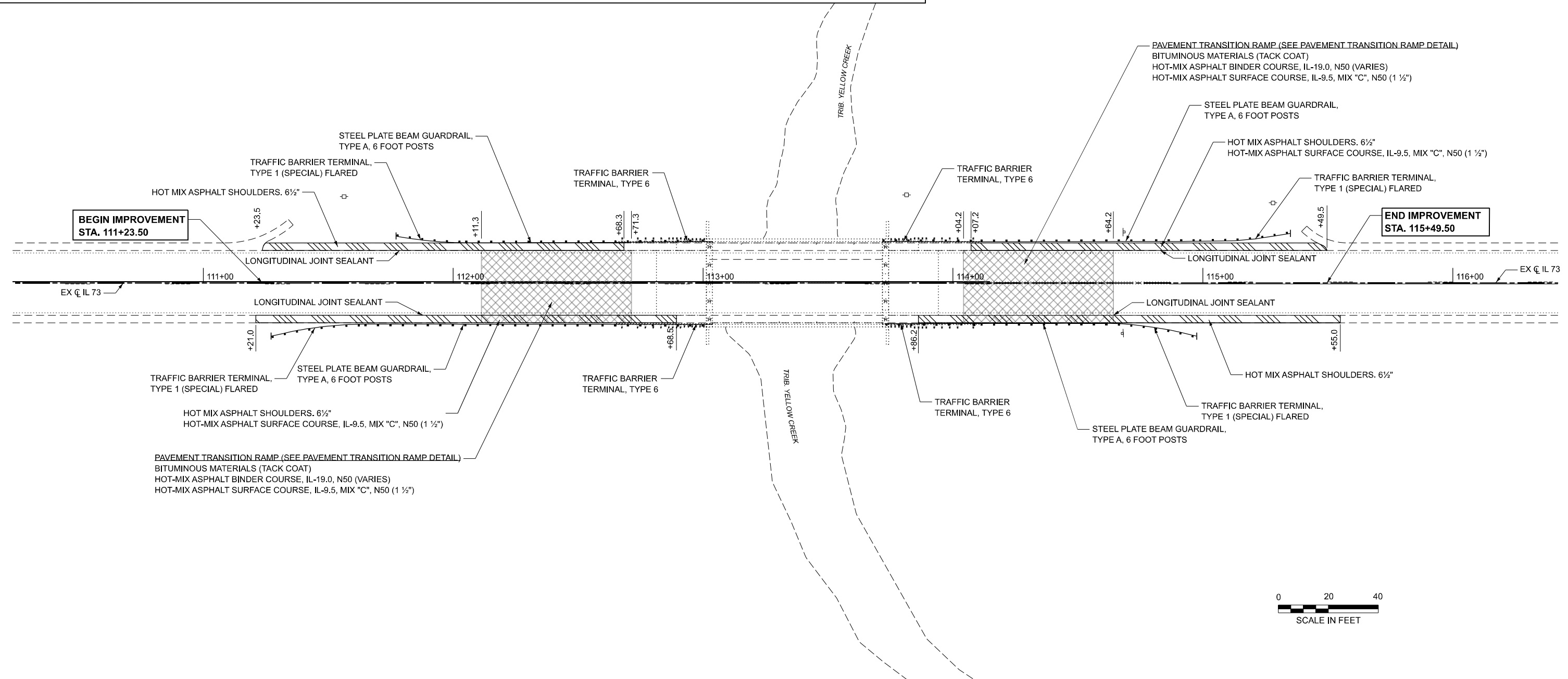
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654	(107BR-1)BDR	STEPHENSON	37	14
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				



* NOTE: STA. 112+11.3 TO STA. 112+71.3 AND
STA. 114+04.2 TO STA. 114+64.2 FOR
PAVEMENT TRANSITION RAMP



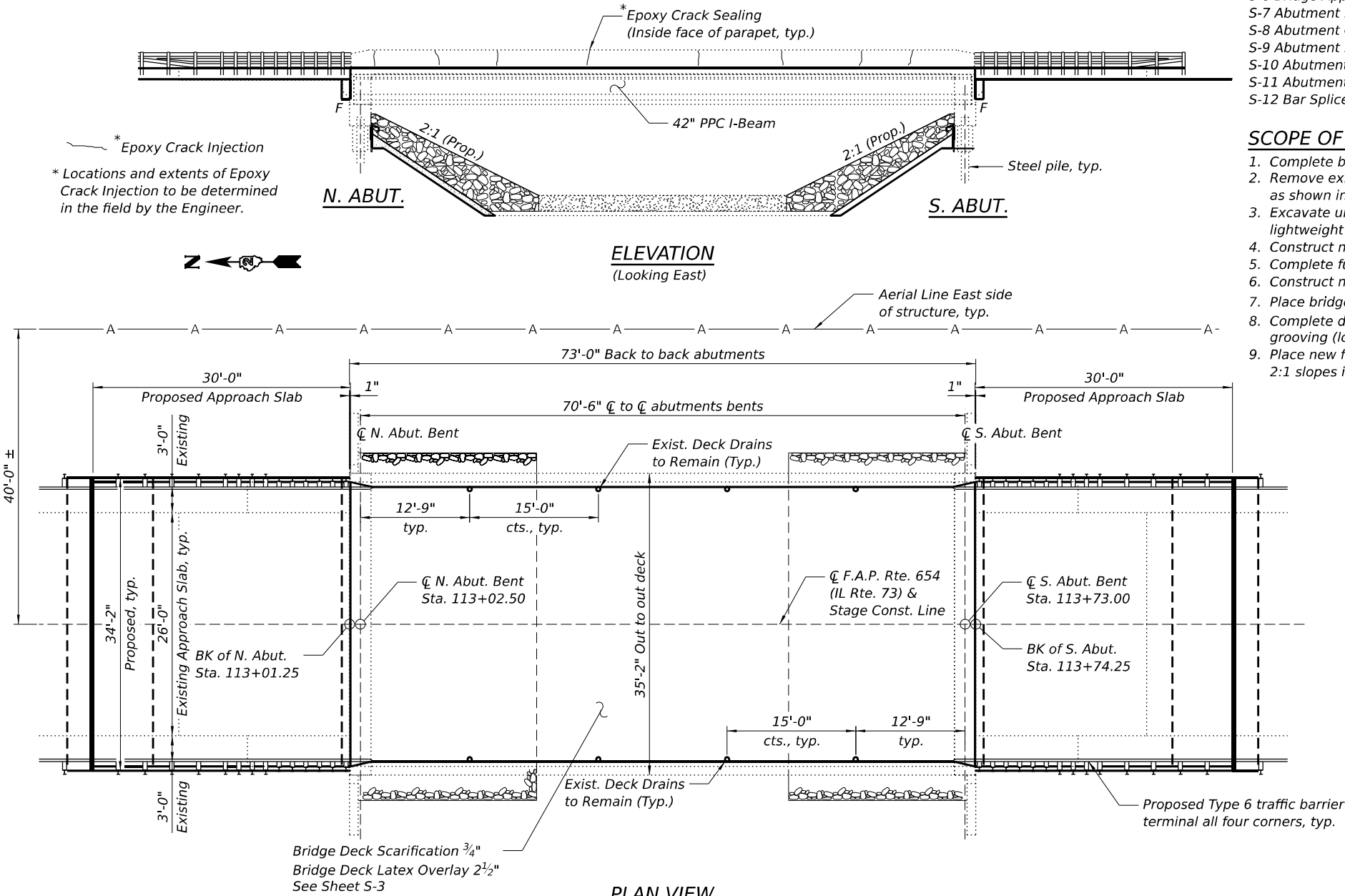
STA. 111+23.50 TO STA. 112+71.30
STA. 114+04.20 TO STA. 115+49.50
(LOOKING SOUTH)



0 20 40
SCALE IN FEET

Existing Structure S.N. 089-0068 built in 1992, is a single span PPC I-beam structure with a reinforced concrete deck and integral concrete abutments. The back to back length of the bridge is 73'-0". The out to out width of the bridge is 35'-2".

Traffic to be maintained during Stage Construction.



INDEX OF STRUCTURE SHEETS

- S-1 General Plan & Elevation, Bill of Materials, General Notes
- S-2 Stage Construction Cross Section
- S-3 Wearing Surface Plan
- S-4 Deck Slab Repair Plan
- S-5 Bridge Approach Slab Details 1
- S-6 Bridge Approach Slab Details 2
- S-7 Abutment Excavation & Soil Retention
- S-8 Abutment Corbel Repair
- S-9 Abutment Erosion Repairs - Existing Condition
- S-10 Abutment Erosion Repairs - Proposed Condition
- S-11 Abutment Erosion Repair Details
- S-12 Bar Splicer Assembly and Mechanical Splicer Details

SCOPE OF WORK

- Complete bridge deck scarification, 3/4".
- Remove existing approach slabs and back of abutment corbels, as shown in plans
- Excavate under abutments and, using formwork, fill with lightweight cellular concrete.
- Construct new backwall corbels and fill with granular backfill.
- Complete full-depth deck patching.
- Construct new approach slabs.
- Place bridge deck latex concrete overlay, 2 1/2".
- Complete diamond grinding 1/4" and bridge deck grooving (longitudinal).
- Place new filter fabric and rip rap as shown to restore original 2:1 slopes in front of abutments.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A5	Ton	0	296	296
Filter Fabric	Sq. Yd.	0	154	154
Pavement Connector (HMA) for Bridge Approach	Sq. Yd.	23	0	23
Pavement Removal	Sq. Yd.	104	0	104
Concrete Removal	Cu. Yd.	0	4.0	4.0
Structure Excavation	Cu. Yd.	0	75	75
Concrete Structures	Cu. Yd.	0	27.4	27.4
Protective Coat	Sq. Yd.	430	0	430
Concrete Superstructure (Approach Slab)	Cu. Yd.	96.8	0	96.8
Reinforcement Bars, Epoxy Coated	Pound	39,583	3,674	43,257
Bar Splicers	Each	212	86	298
Mechanical Splicers	Each	48	0	48
Temporary Soil Retention System	Sq. Ft.	80	0	80
Granular Backfill for Structures	Cu. Yd.	77	0	77
Epoxy Crack Injection	Foot	50	0	50
Geocomposite Wall Drain	Sq. Yd.	48	0	48
Pipe Underdrain for Structures	Foot	80	0	80
Lightweight Cellular Concrete Fill	Cu. Yd.	0	13	13
Clearing (Special)	L. Sum.	0	1	1
Remove Existing Riprap	Sq. Yd.	0	16	16
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	355	0	355
Bridge Approach Shoulder Removal	Sq. Yd.	20	0	20
Approach Slab Removal	Sq. Yd.	116	0	116
Bridge Deck Latex Concrete Overlay 2 1/2"	Sq. Yd.	260	0	260
Bridge Deck Scarification 3/4"	Sq. Yd.	260	0	260
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	3	0	3
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	5	0	5
Diamond Grinding (Bridge Section)	Sq. Yd.	422	0	422

GENERAL NOTES

Plan dimensions and details relative to existing plans are subjected 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.

Reinforcement bars designated (E) shall be epoxy coated.

Protective coat shall be applied to the top inside face of parapets and the new overlay.

Areas of repairs shown are estimated. The Engineer shall show actual locations of the repairs on As-Built Plans.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Cost included with Deck Slab Repair.

DESIGN STRESSES

FIELD UNITS (Existing)

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

FIELD UNITS

f'c = 4,000 psi
f'c = 5,000 psi (Concrete Wearing Surface)
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS (Existing)

f'c = 6,000 psi
f'ci = 5,000 psi
f's = 270,000 psi (1/2" Ø Strands)
f'si = 189,000 psi (1/2" Ø Strands)

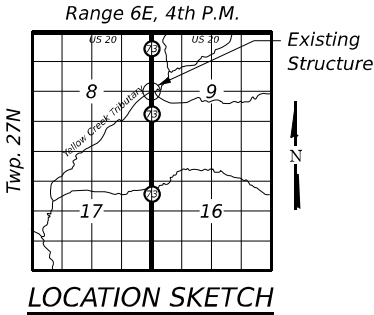
DESIGN SPECIFICATIONS

AASHTO (1989), 1990 Interims,
1983 Seismic Guide Specifications
(Existing)

AASHTO 2002 Standard Specification
for Highway Bridges (New Construction)

LOADING HS20-44

(Existing)



GENERAL PLAN AND ELEVATION

F.A.P. 654 (IL 73) OVER
YELLOW CREEK TRIBUTARY
SECTION (107 BR-1)BDR
STEPHENSON COUNTY
STATION 113+37.75

STRUCTURE NUMBER: 089-0068

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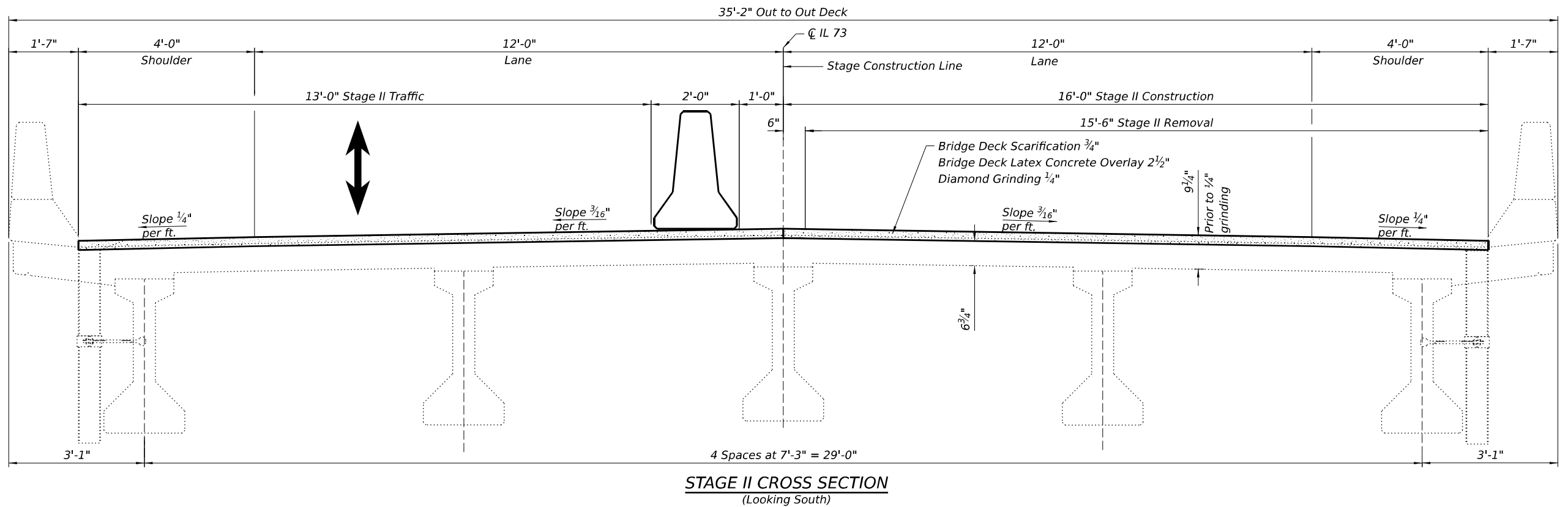
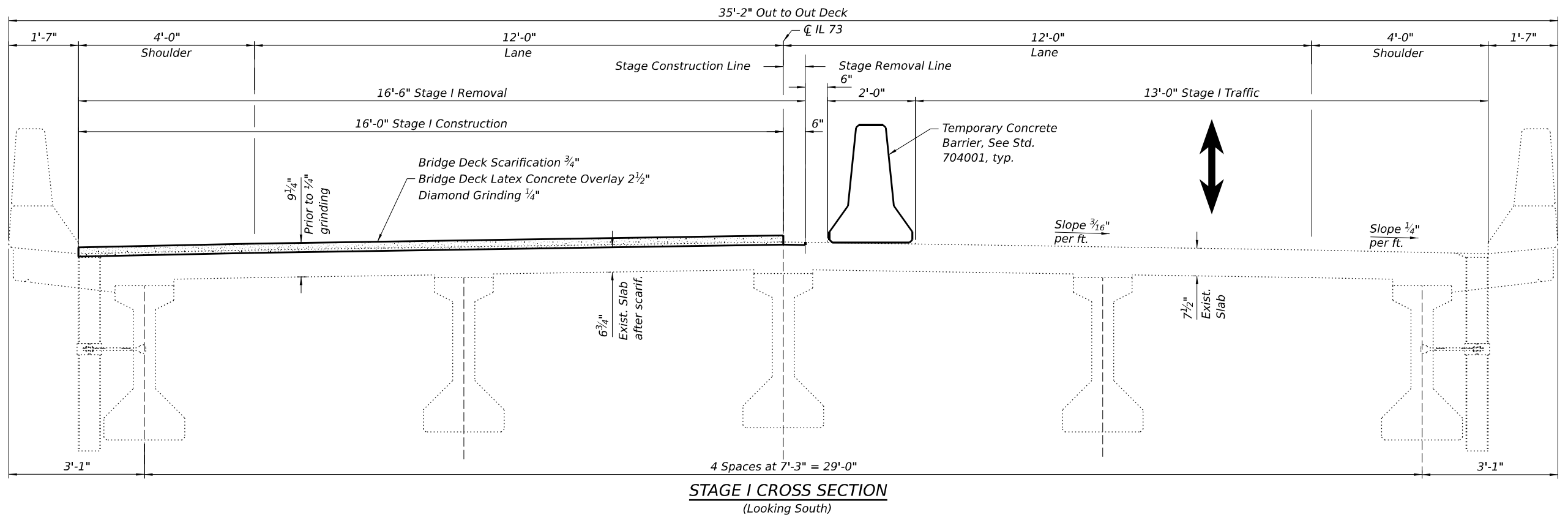
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 089-0068

SHEET 1 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107 BR-1)BDR	STEPHENSON	37	16
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				



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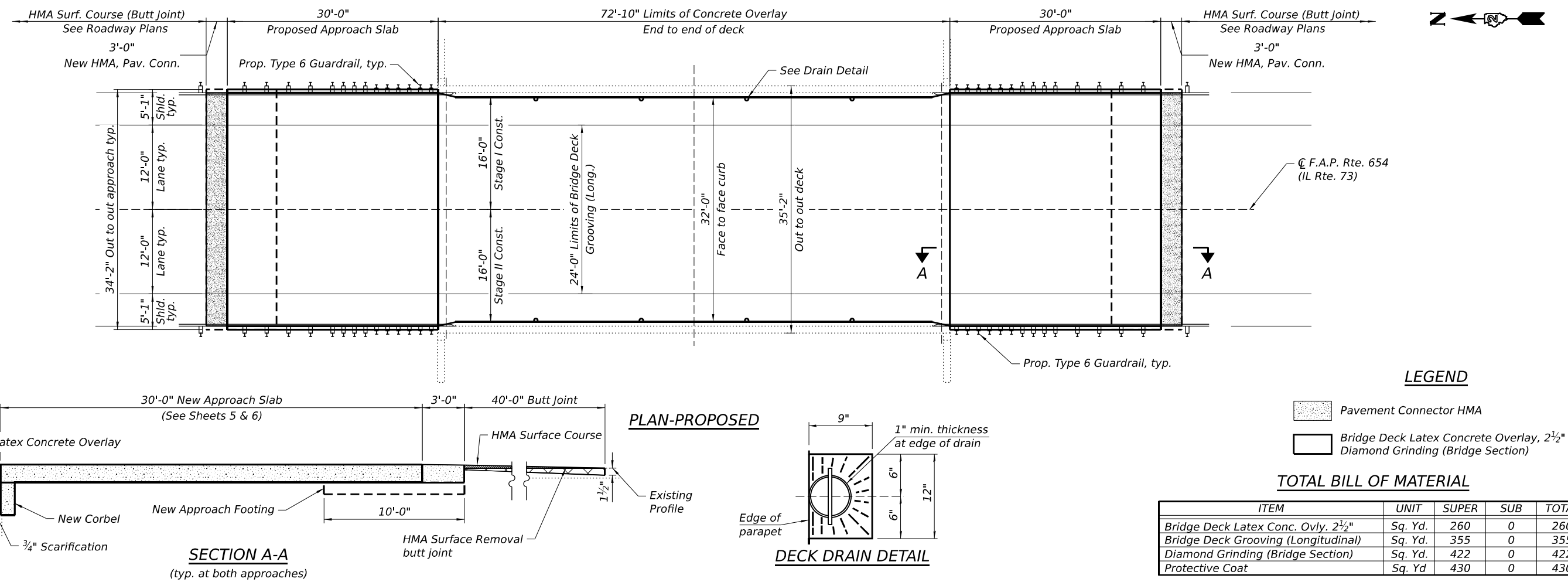
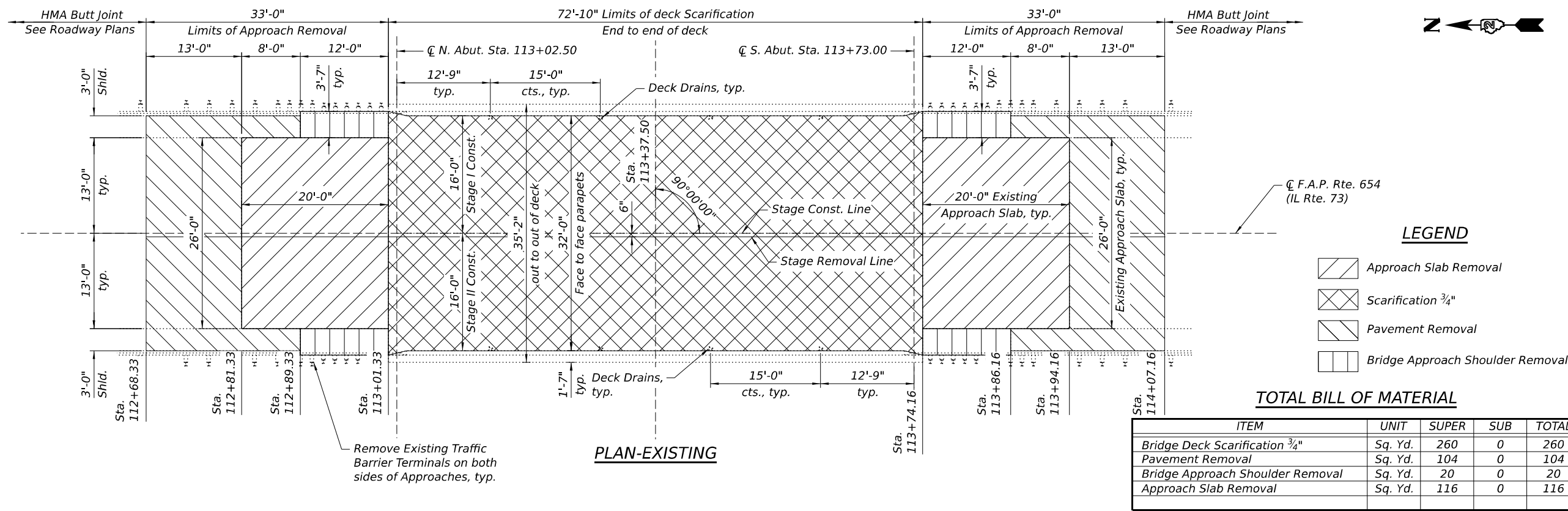
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION CROSS SECTION
STRUCTURE NO. 089-0068

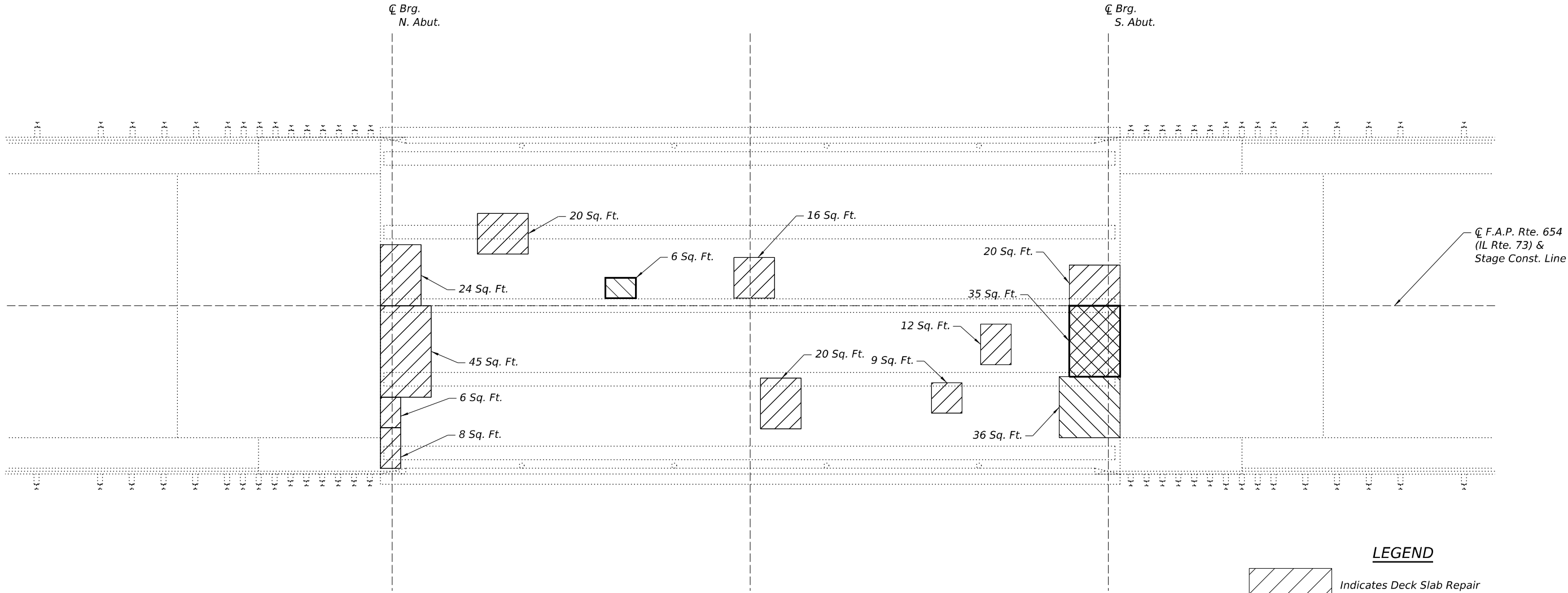
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ILLINOIS		FED. AID PROJECT		



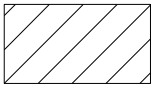
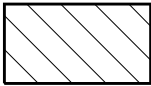
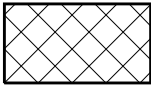
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PLAN VIEW

LEGEND

-  Indicates Deck Slab Repair (Partial Depth) (For Information Only)
-  Indicates Deck Slab Repair (Full Depth), Type I
-  Indicates Deck Slab Repair (Full Depth), Type II

Notes:
Quantities and limits of repairs shown are estimated only. The actual areas to be repaired shall be determined by the Engineer at time of construction. The Engineer shall show actual locations of the repairs on AS-BUILT PLANS.

*Quantity for Deck Slab Repair (Partial) is for information only. See Bridge Deck Latex Concrete Overlay Special Provisions.

**A Nominal Quantity of 3 Sq. Yd. (1% of Deck Area) is provided for Deck Slab Repair (Full Depth, Type I).

TOTAL BILL OF MATERIAL

	ITEM	UNIT	QUANTITY
*	Deck Slab Repair (Partial Depth)	Sq. Yd.	24
	Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	5
**	Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	3



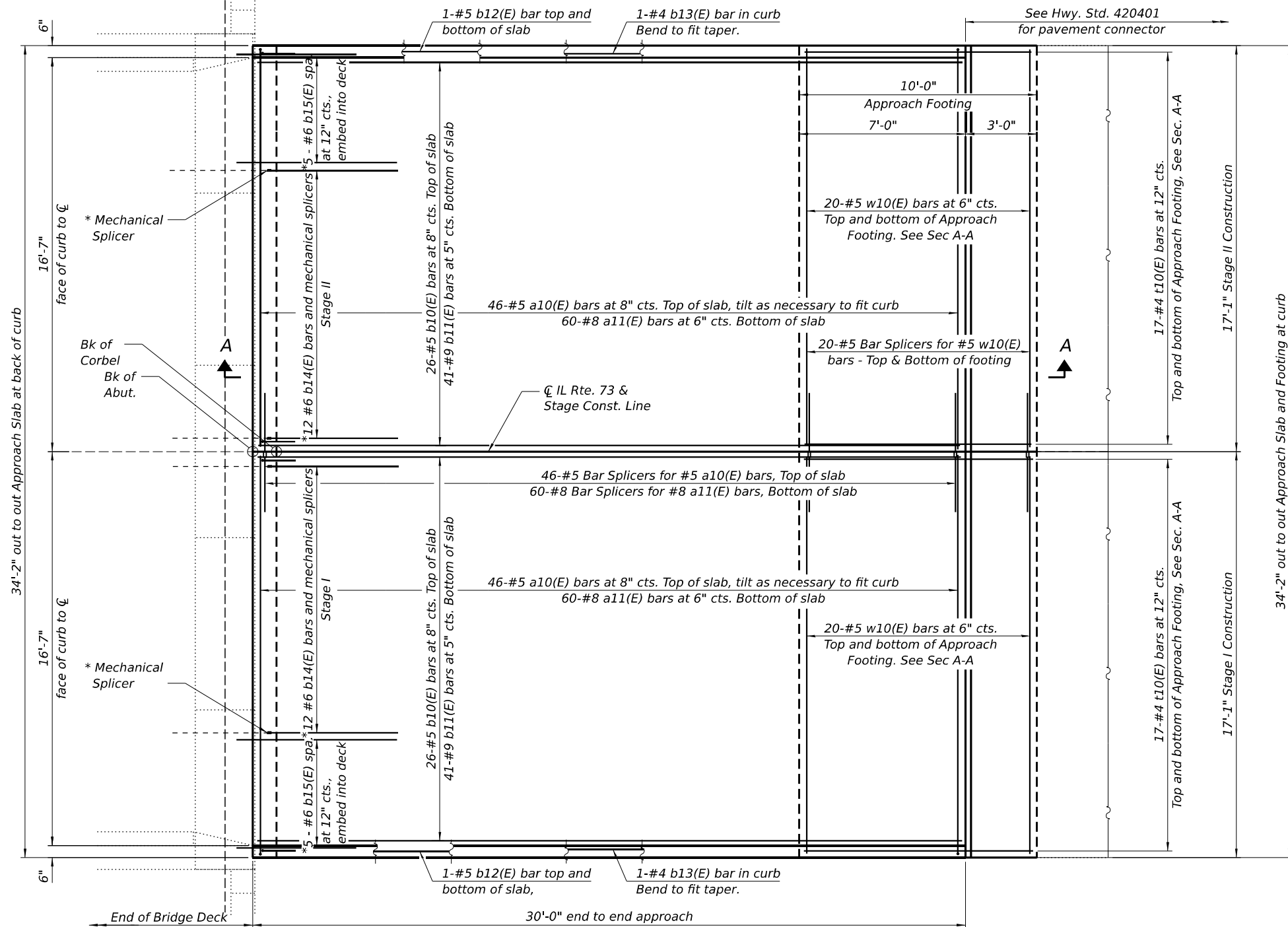
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK SLAB REPAIR PLAN
STRUCTURE NO. 089-0068

SHEET 4 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				



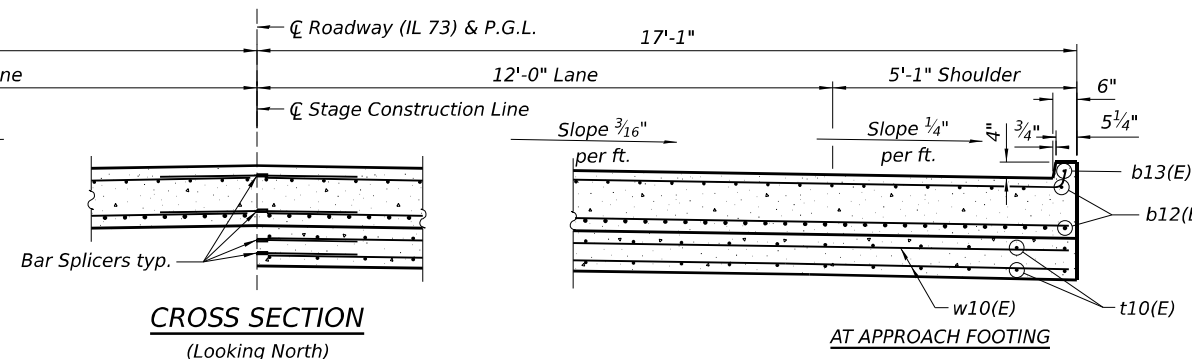
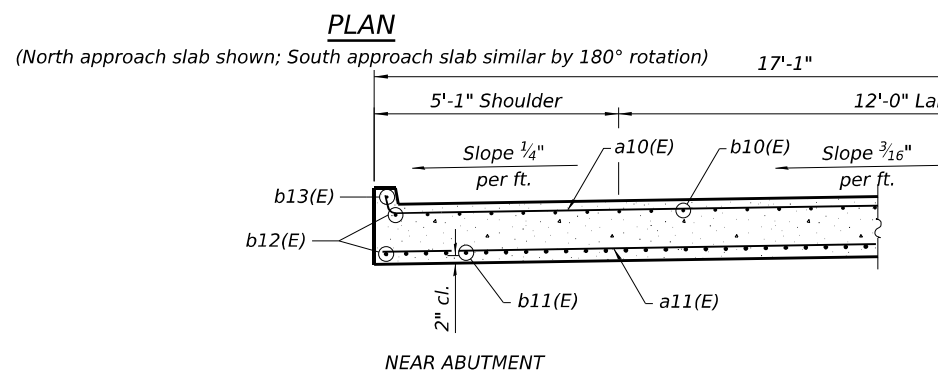
NOTES:

See Sheet 6 for Section A-A, reinforcement bar details and bill of material.

* See Sheet S-8 for addition details

MINIMUM BAR LAP

#5 bar = 3'-4" Approach Slab
#8 bar = 4'-9" Approach Slab
#5 bar = 3'-0" Footing



USER NAME =	DESIGNED - BMW	REVISED -
	CHECKED - JRT	REVISED -
PLOT SCALE =	DRAWN - BMW	REVISED -
PLOT DATE =	CHECKED - JRT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS 1
STRUCTURE NO. 089-0068

SHEET 5 OF 12 SHEETS

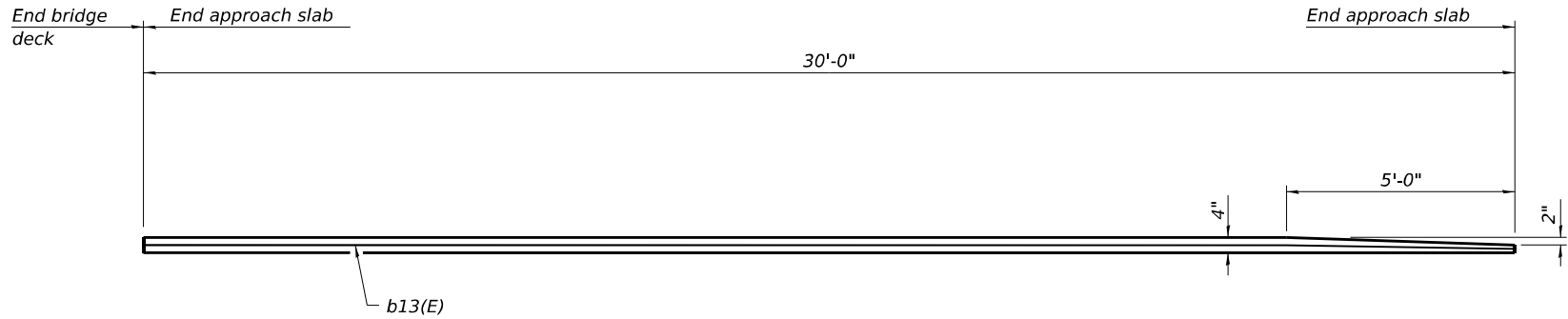
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107 BR-1)BDR	STEPHENSON	37	20
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				

MODEL: Approach Slab Details
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2/10/2025 10:12:40 PM

S-5

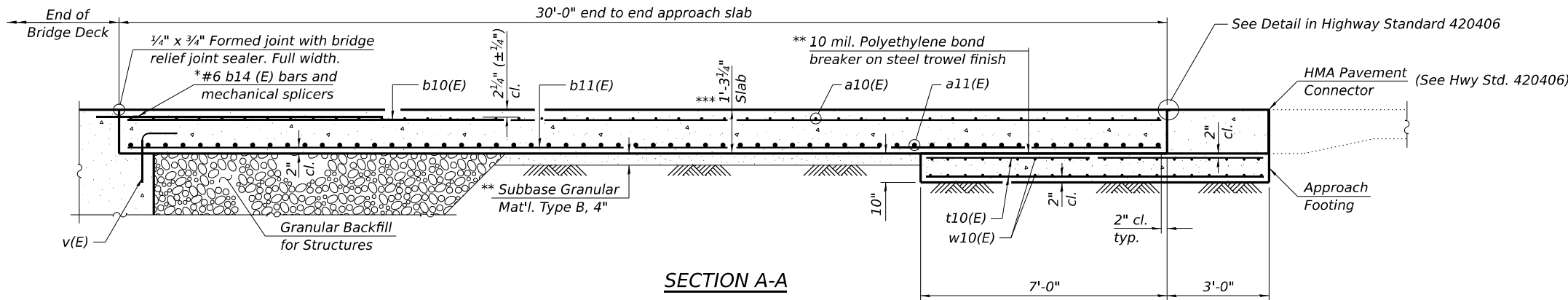
MODEL: Approach Slab Details
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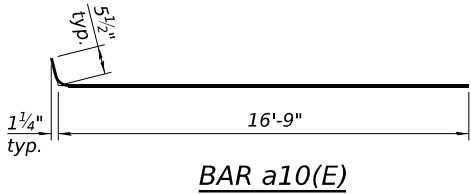
INSIDE ELEVATION OF CURB

Notes:
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see Sheet S-8.

Survey was not performed on this structure.
New approach pavement will be $1\frac{1}{2}$ " higher than the existing grade after $\frac{1}{4}$ " Diamond Grinding. Contractor to field verify existing elevations of approaches before construction of new deck overlay and new approach slabs.



SECTION A-A



NORTH AND SOUTH APPROACH SLABS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	184	#5	17'-3"	
a11(E)	240	#8	16'-9"	
b10(E)	104	#5	29'-8"	
b11(E)	164	#9	29'-8"	
b12(E)	8	#5	29'-8"	
b13(E)	4	#4	29'-8"	
b14(E)	48	#6	5'-6"	
b15(E)	20	#6	6'-9"	
t10(E)	136	#4	9'-8"	
w10(E)	160	#5	16'-9"	
Concrete Superstructure (Approach Slab)			Cu. Yd.	96.8
Concrete Structures			Cu. Yd.	21.2
Reinforcement Bars, Epoxy Coated Bar Splicers			Pound	38,405
			Each	292
Pavement Connector (HMA) for Approach Slab			Sq. Yd.	23
Mechanical Splicers			Each	48

* See Sheet S-8 for additional details
** Cost included with Concrete Superstructure (Approach Slab).
*** Prior to $\frac{1}{4}$ " Diamond Grinding



USER NAME =	DESIGNED - BMW	REVISED -
	CHECKED - JRT	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS 2
STRUCTURE NO. 089-0068

SHEET 6 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107 BR-1)BDR	STEPHENSON	37	21
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				

MODEL: Abutment Erosion Repair-Existing
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5/7/2025 3:24:27 PM

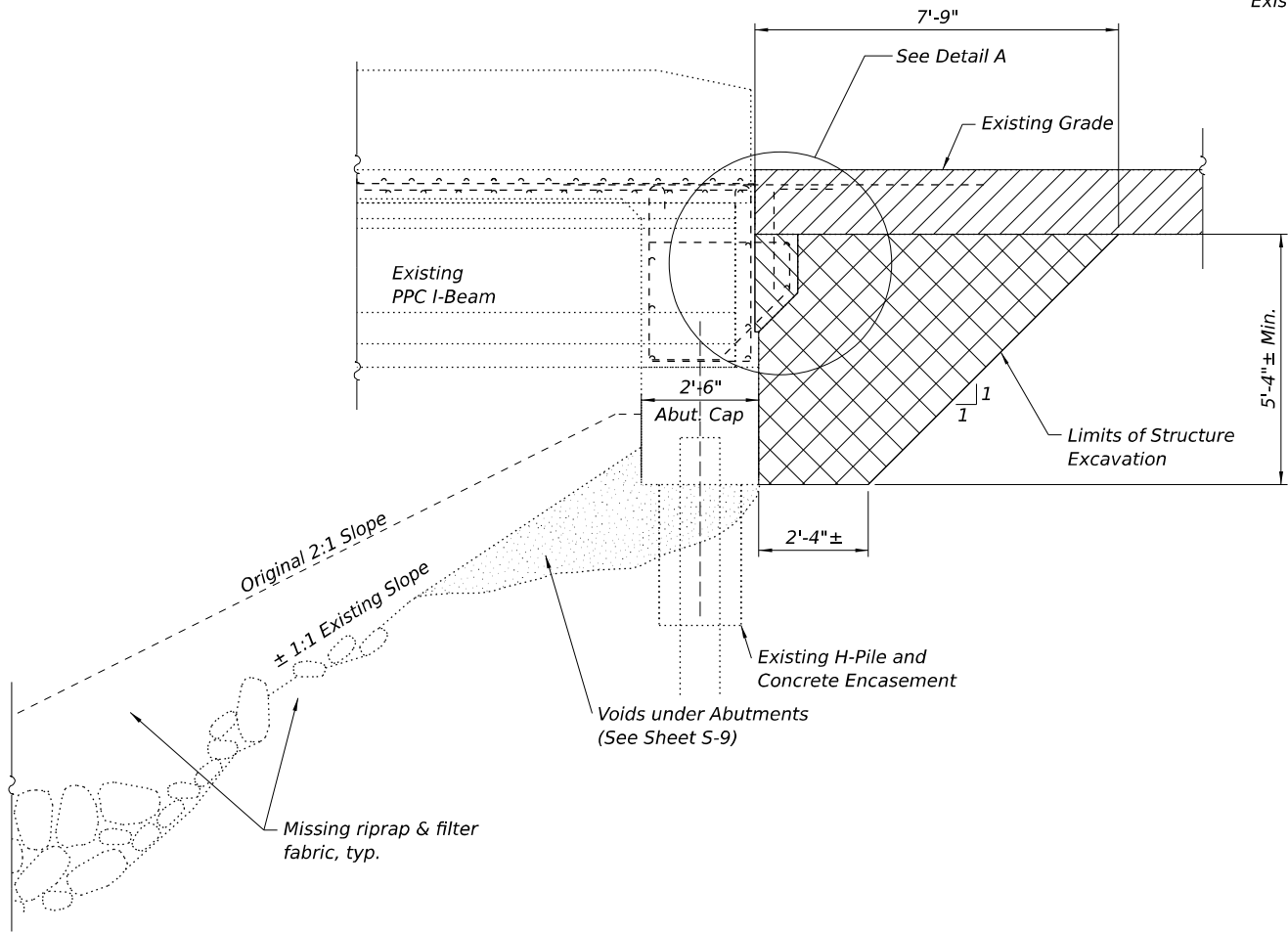
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	CHECKED - JPB	REVISED -
PLOT SCALE =	DRAWN - JRT	REVISED -
PLOT DATE =	CHECKED - JPB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT EXCAVATION & SOIL RETENTION
STRUCTURE NO. 089-0068

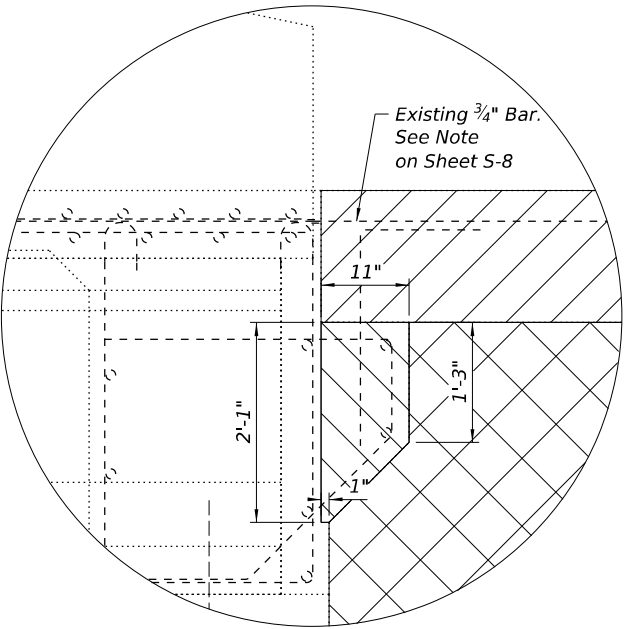
SHEET 7 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107 BR-1)BDR	STEPHENSON	37	22
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				



EXISTING ABUTMENT & SLOPE SECTION

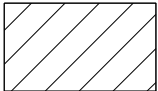
(North Abutment looking West, South Abutment looking East)



DETAIL A

Existing Corbel Removal

LEGEND



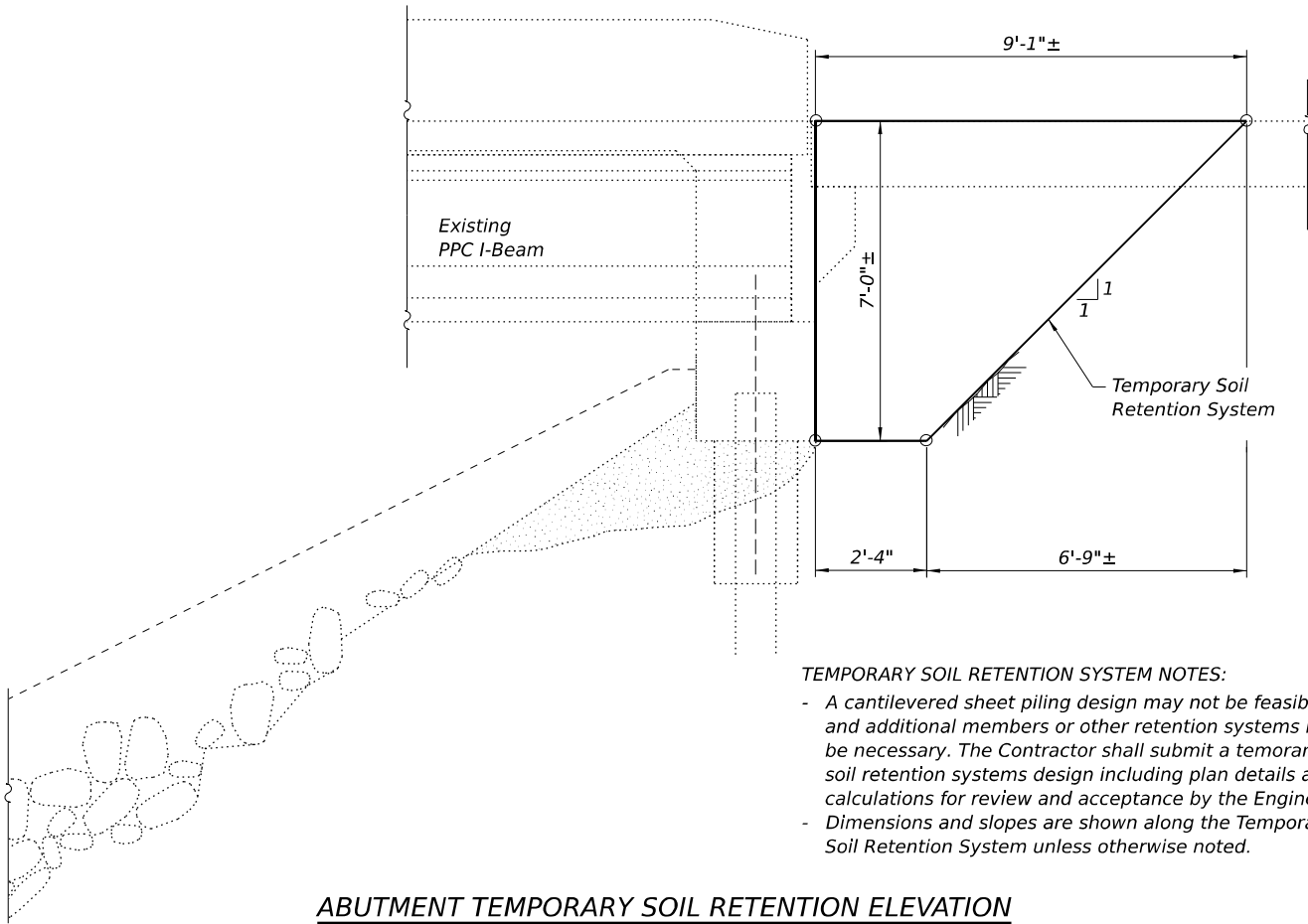
- Approach Slab Removal



- Concrete Removal



- Structure Excavation

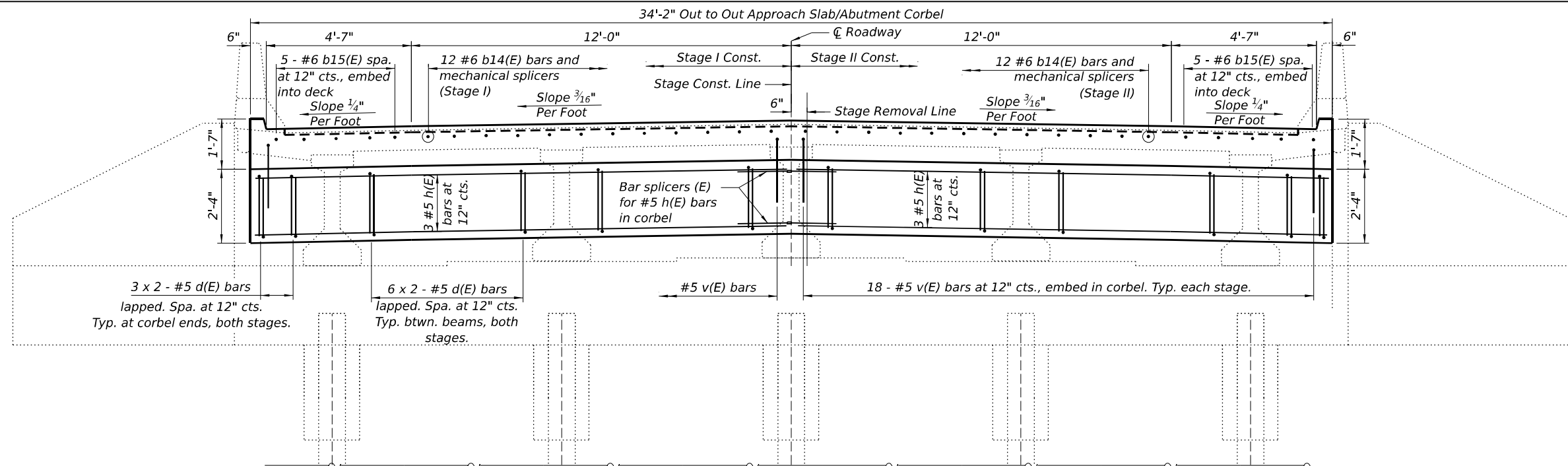


TEMPORARY SOIL RETENTION SYSTEM NOTES:

- A cantilevered sheet piling design may not be feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention systems design including plan details and calculations for review and acceptance by the Engineer.
- Dimensions and slopes are shown along the Temporary Soil Retention System unless otherwise noted.

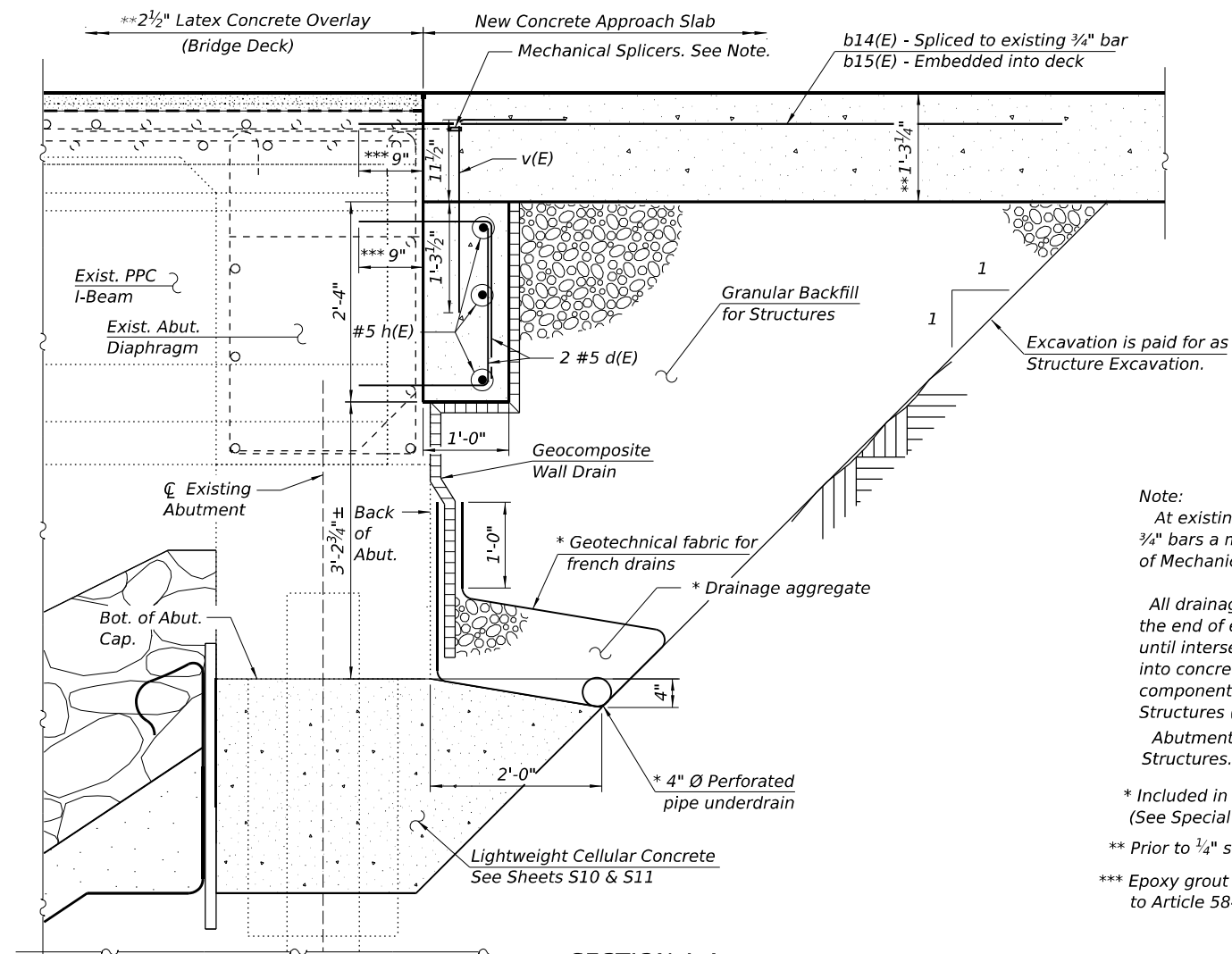
BILL OF MATERIALS

Item	Unit	Total
Temporary Soil Retention System	Sq. Ft.	80
Concrete Removal	Cu. Yd.	4.0
Structure Excavation	Cu. Yd.	75

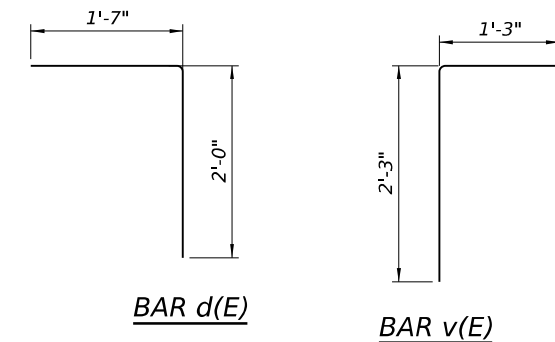


BACK OF ABUTMENT ELEVATION - CORBEL CONSTRUCTION

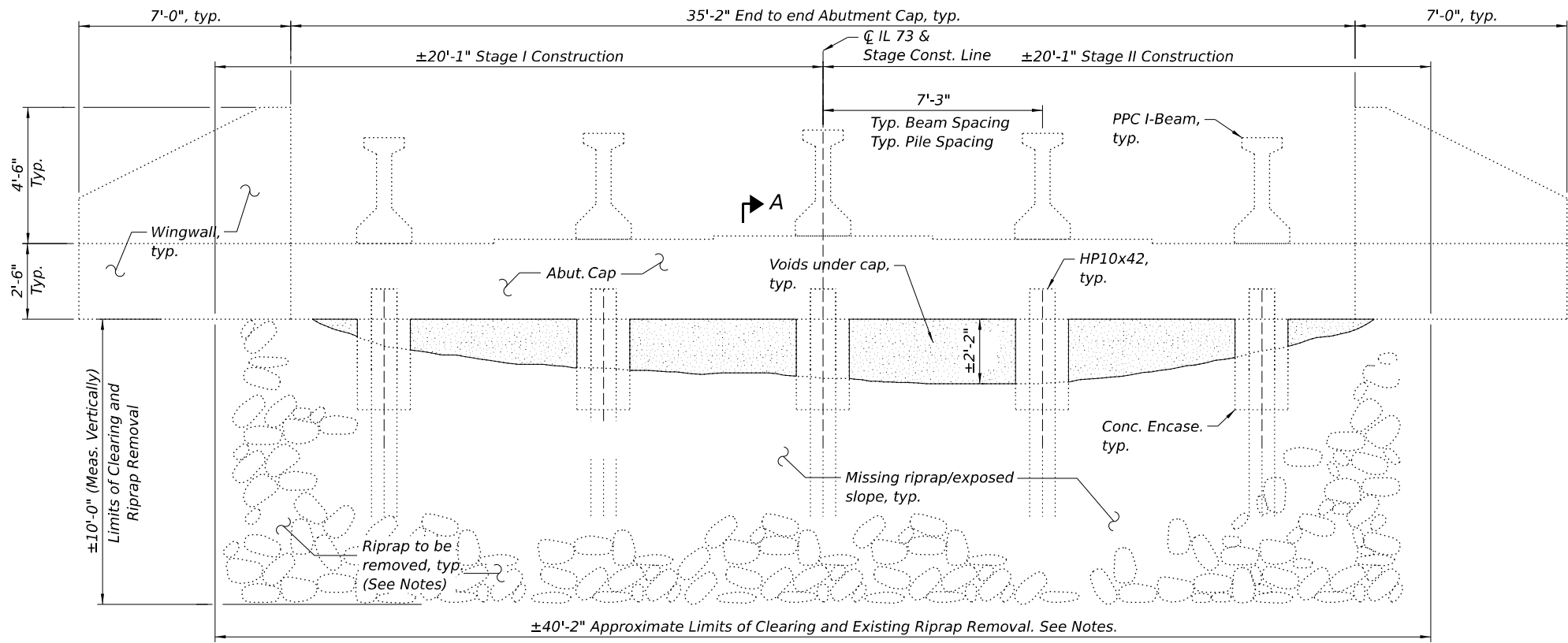
(Backside of North Abutment shown, looking South. South Abutment mirrored.)



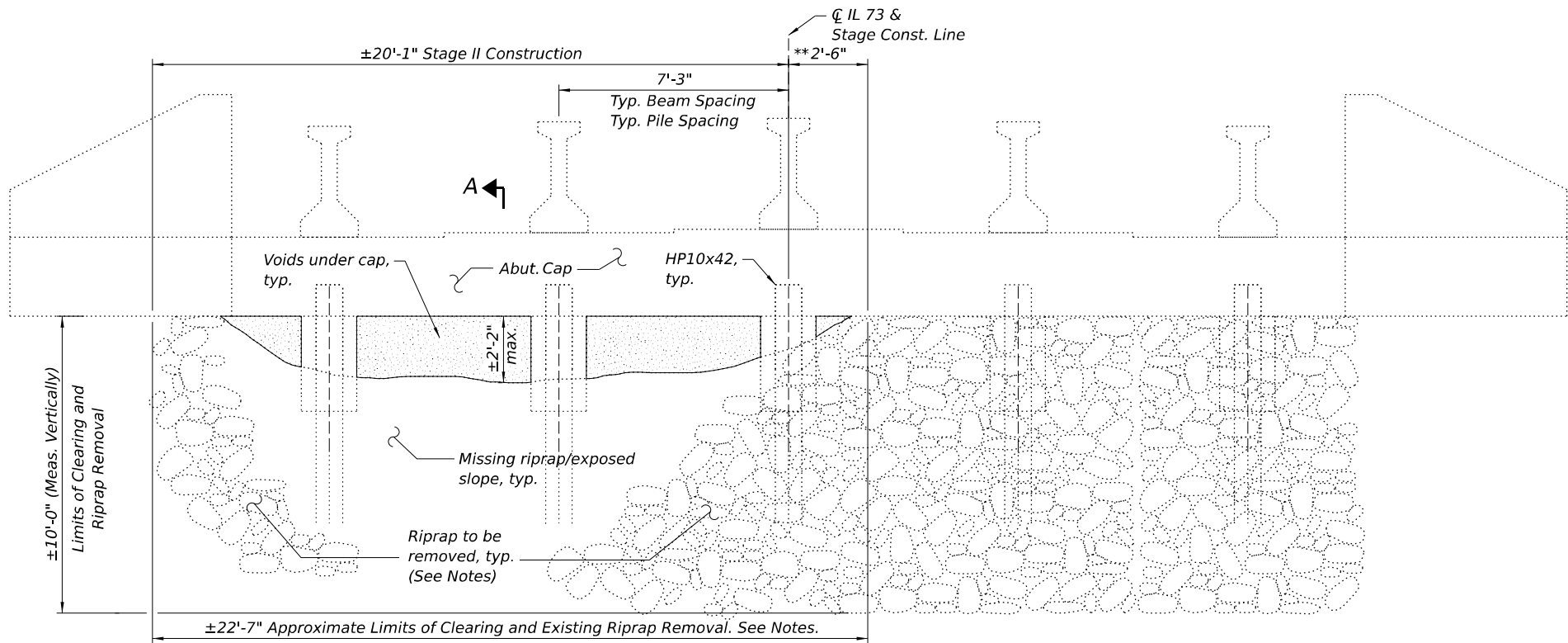
SECTION A-A



MODEL: Abutment Erosion Repair-Existing
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EXISTING SOUTH ABUTMENT ELEVATION
(Looking South)

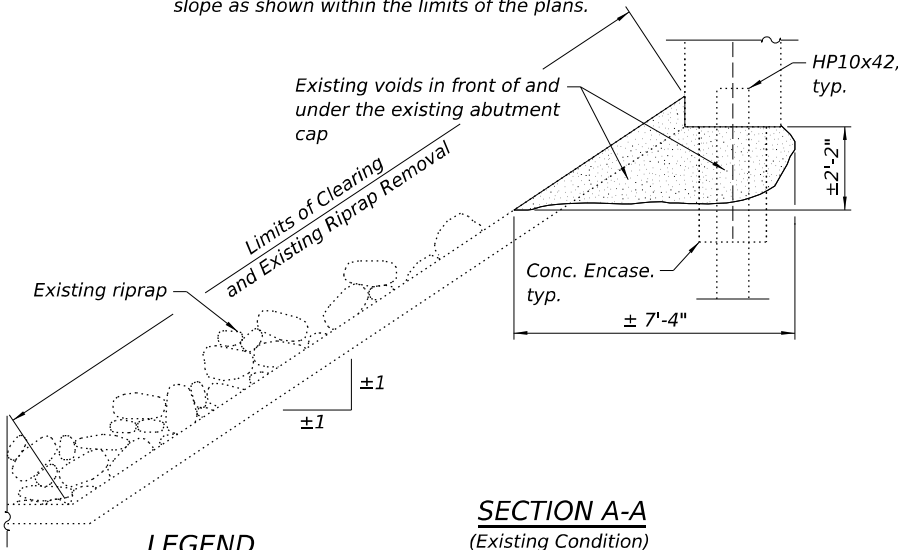


**Complete work during Stage II


EXISTING NORTH ABUTMENT ELEVATION
(Looking North)

BELOW-ABUTMENT CLEARING AND REPAIR SEQUENCE

1. Clear slopes and remove existing riprap within the limits shown per the special provisions and plan notes.
2. Excavate behind abutments to the approximate limits shown on Sheet S-7 for the abutment corbel repair. If voids are encountered, ensure that all loose material or past repair material is also removed. Cost included with Clearing (Special).
3. Clearing of material within the voids and the filling of the voids are to only be done in conjunction with the Stage Construction sequence, with no traffic driving over the excavated sections.
4. Once clearing of all voids below the abutments is complete and the voids are clean and free of debris, the contractor shall place permanent (to be left in place) formwork in front of the abutment cap to fully close off the exposed voids. The voids are to be filled with a lightweight cellular concrete fill to the limits shown. The lightweight concrete should fill all voids behind the abutment up to the bottom of the abutment cap. Once this is done, the remaining excavation behind the abutment can be filled with granular backwall once the new corbels have been constructed.
5. Once the excavated areas have been restored, the Contractor shall place filter fabric and restore the riprap slope to approximately the original slope as shown within the limits of the plans.



LEGEND

 - Voids under Abutments

NOTES

See Sheet S-7 for details of the required Temporary Soil Retention System.

The voided areas shall be filled with Lightweight Cellular Concrete Fill as directed by the Engineer. Approximate quantities and locations are herein. See Sheets S-10 and S-11 for additional details of the proposed repair.

Clearing (Special) shall be performed in accordance with the Special Provision. The Engineer shall make final determination of the amount and type of material or debris that needs to be removed in order to complete the proposed work within the limits shown on the plans.

The quantity for the existing riprap to be removed is estimated based on field inspection. The Engineer shall determine the exact amount of existing riprap removal to conform within the general limits of the proposed repair.

For additional details of void and repair limits, see Sheets S-7 and S-11.

Care shall be taken as to not damage the existing steel pile encasements during the repair.

BILL OF MATERIALS

Item	Unit	Total
Clearing (Special)	L SUM	1
Remove Existing Riprap	Sq. Yd.	16



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

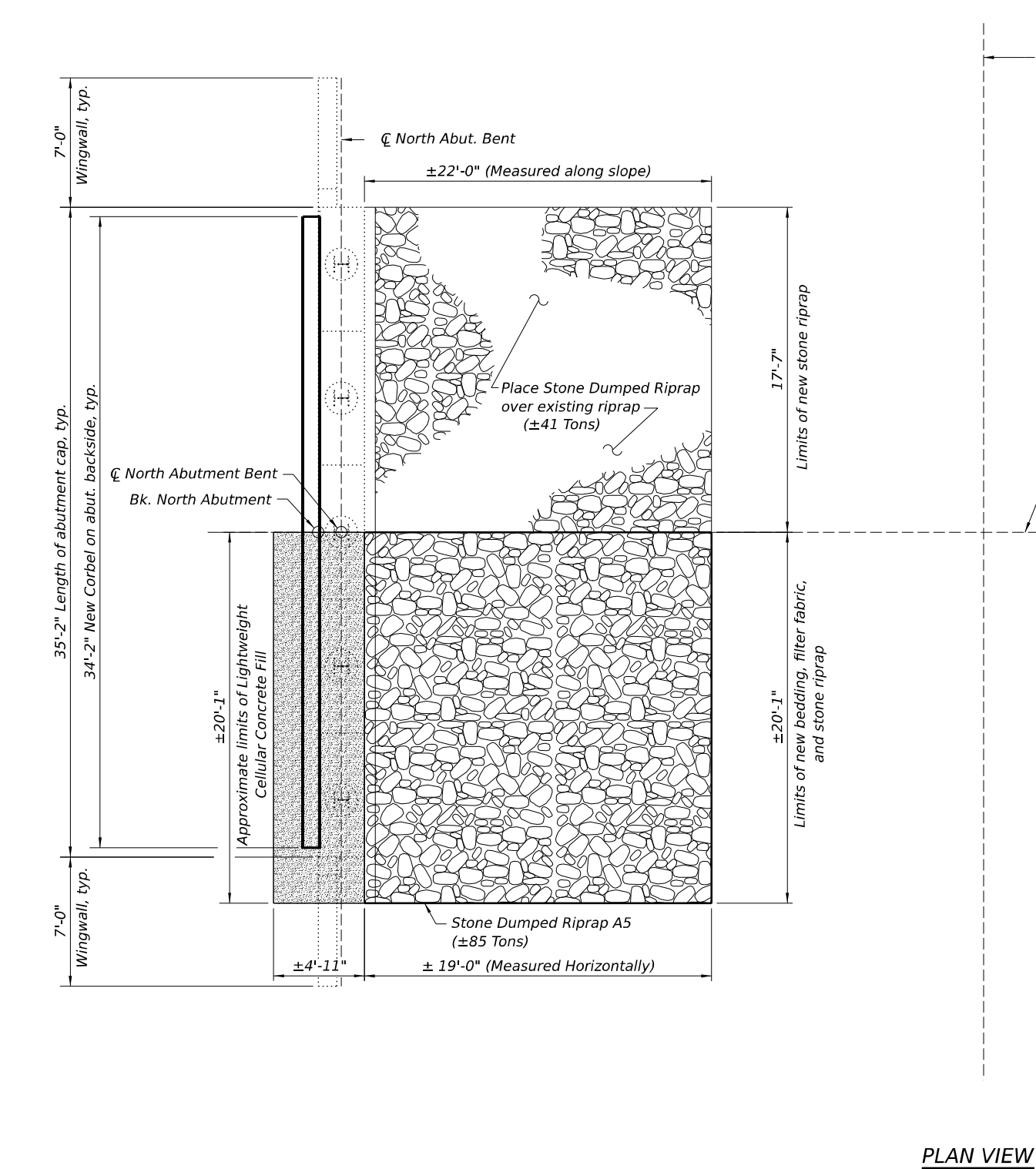
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT EROSION REPAIRS - EXISTING CONDITION
STRUCTURE NO. 089-0068

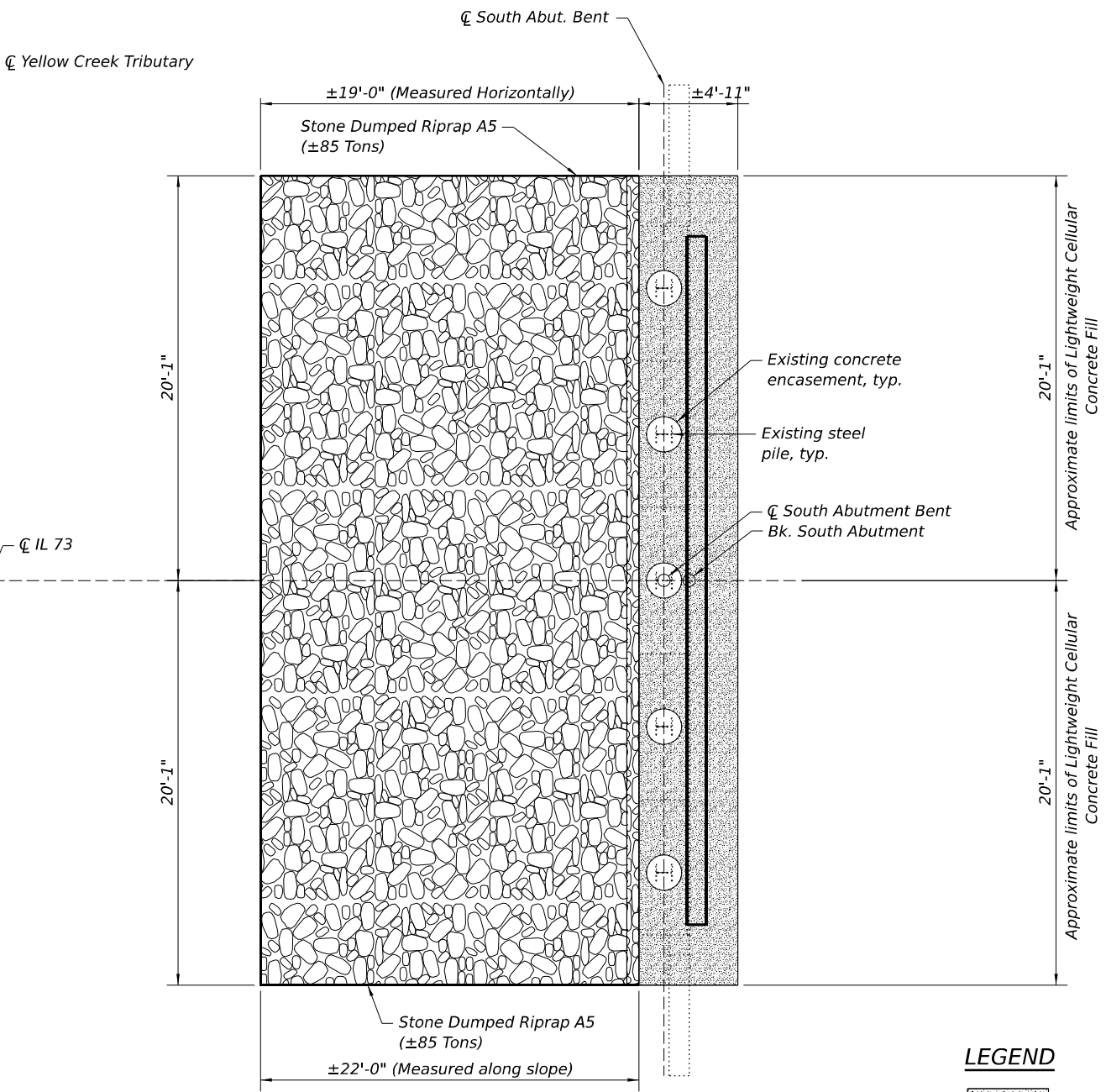
SHEET 9 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107 BR-1)BDR	STEPHENSON	37	24
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				

MODEL: Abutment Erosion Repair-Existing
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PLAN VIEW



NOTES

Layout of the riprap and filter fabric may be varied to suit ground conditions in the field as directed by the Engineer.

The voided areas shall be filled with Lightweight Cellular Concrete Fill as directed by the Engineer. Approximate quantities and locations are herein. See Sheet S-11 for additional details of the proposed repair.

The quantity for the riprap is estimated based on field inspection of the existing condition. The Engineer shall determine the exact amount of riprap to conform within the general limits of the proposed repair.

LEGEND

- Limits of Lightweight Cellular Concrete Fill
- Limits of Riprap Class A5 with Filter Fabric and bedding

BILL OF MATERIALS

Item	Unit	Total
Lightweight Cellular Concrete Fill	Cu. Yd.	13
Filter Fabric	Sq. Yd.	154
Stone Dumped Riprap, Class A5	Ton	296



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PLOT SCALE =	CHECKED -	REVISED -
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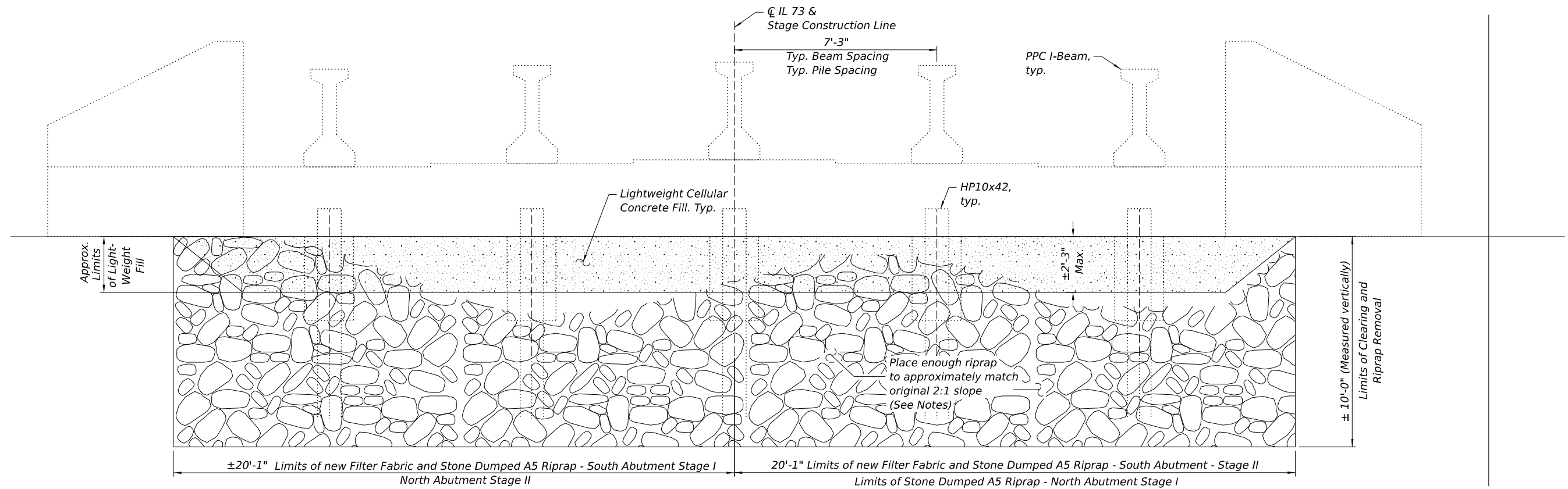
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT EROSION REPAIRS - PROPOSED CONDITION
STRUCTURE NO. 089-0068

SHEET 5 OF 12 SHEETS

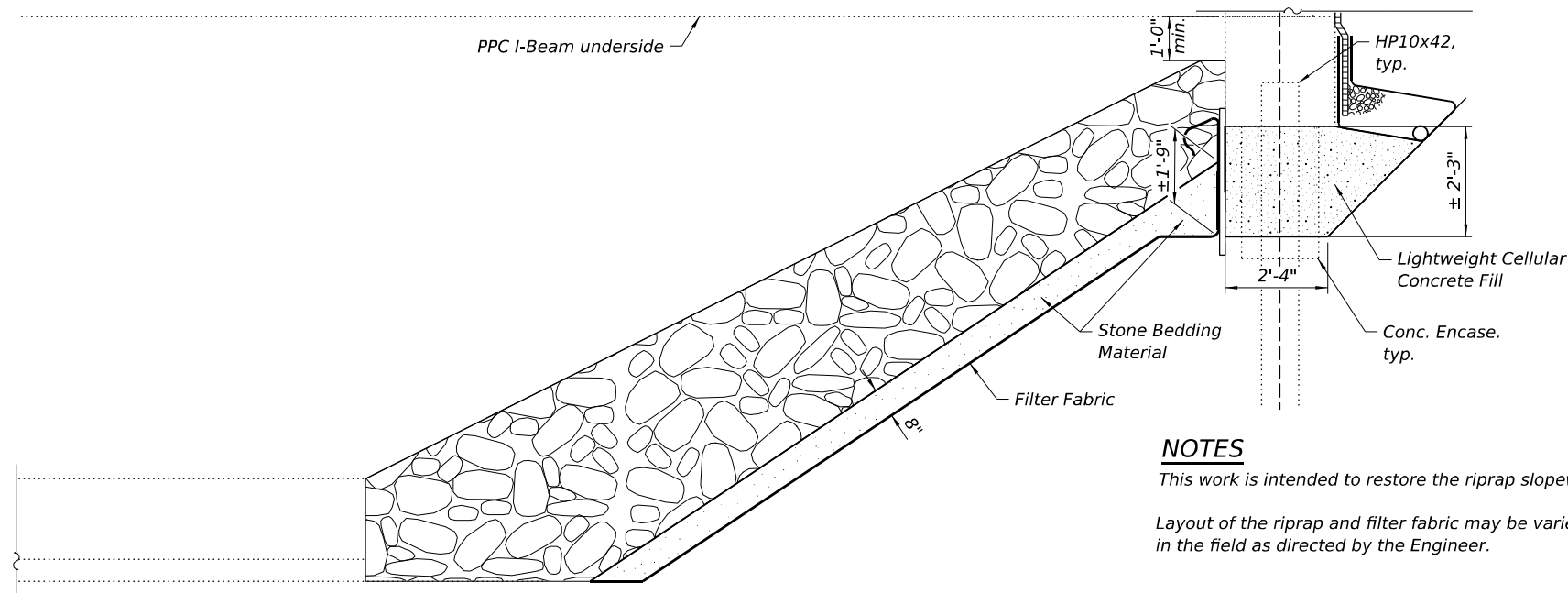
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CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				

MODEL: Details of South Abutment Erosion Repair
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ELEVATION VIEW
(South Abutment looking South, North Abutment looking North)

The areas for the abutment void and slope repairs are approximate in dimension and location.



LEGEND

 - Voids under Abutments

NOTES

This work is intended to restore the riprap slopewalls to the same shape and dimensions as original construction

Layout of the riprap and filter fabric may be varied to suit ground conditions in the field as directed by the Engineer.

The quantity for the riprap is estimated based on field inspection of the existing condition. The Engineer shall determine the exact amount of riprap to conform within the general limits of the proposed repair.

TYPICAL SECTION



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

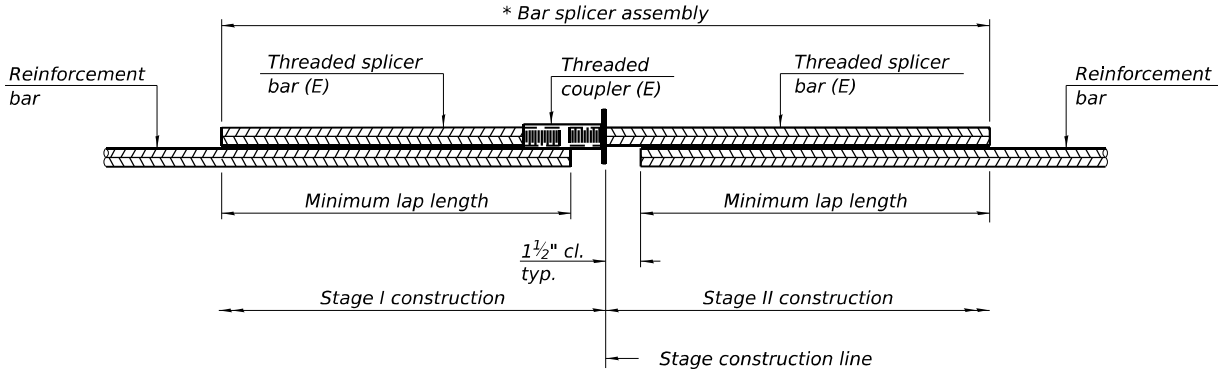
ABUTMENT EROSION REPAIR DETAILS
STRUCTURE NO. 089-0068

SHEET 10 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107 BR-1)BDR	STEPHENSON	37	26
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				

S-11

MODEL: Bar Splicer
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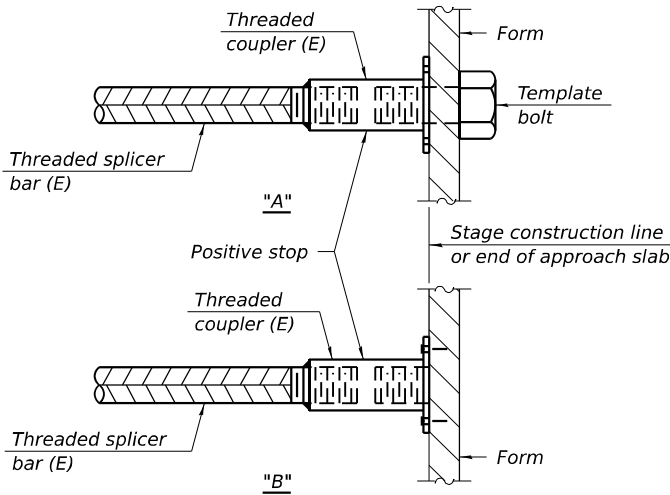
STANDARD BAR SPLICER ASSEMBLY PLAN

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

Threaded splicer bar length = min. lap length + 1½" + thread length

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

Location	Bar size	No. assemblies required	Minimum lap length
Approach Slab	#5	92	3'-4"
Approach Slab	#8	120	4'-9"
Footing	#5	80	3'-0"
Abutment Corbel	#5	6	3'-4"

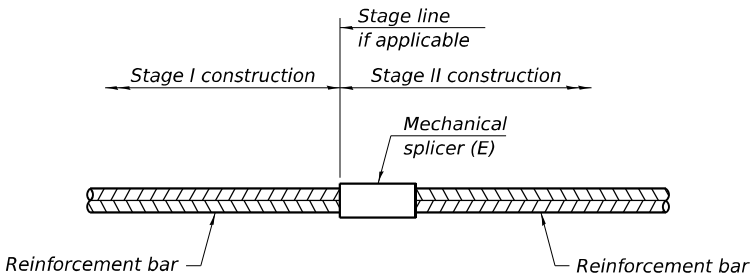


INSTALLATION AND SETTING METHODS

"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
Approach Slab	#6	48

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

MODEL: Default
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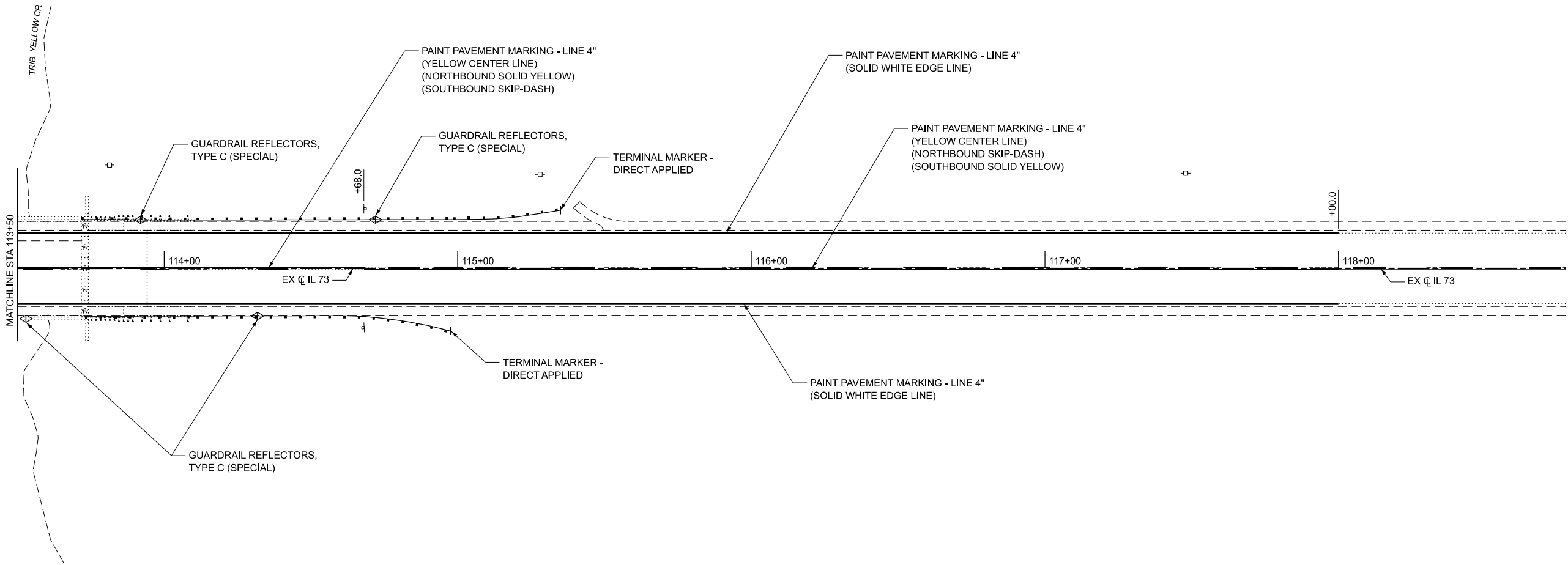
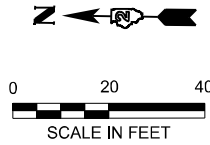
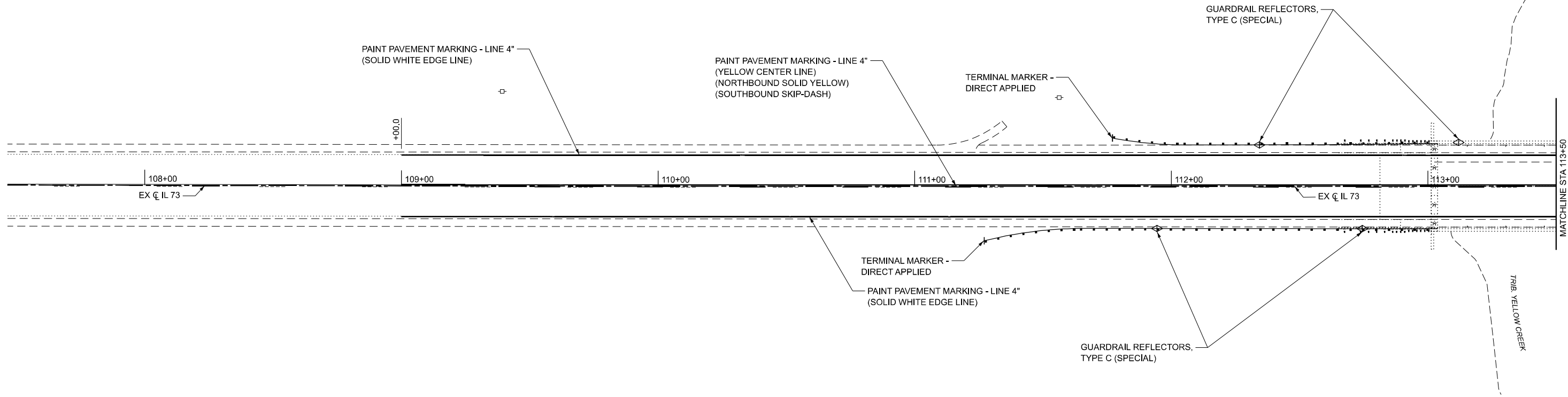
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		CHECKED -	JRP	REVISED -	
PLOT DATE	= 2/8/2025	DATE -	02/08/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
IL 73 OVER TRIBUTARY TO YELLOW CREEK

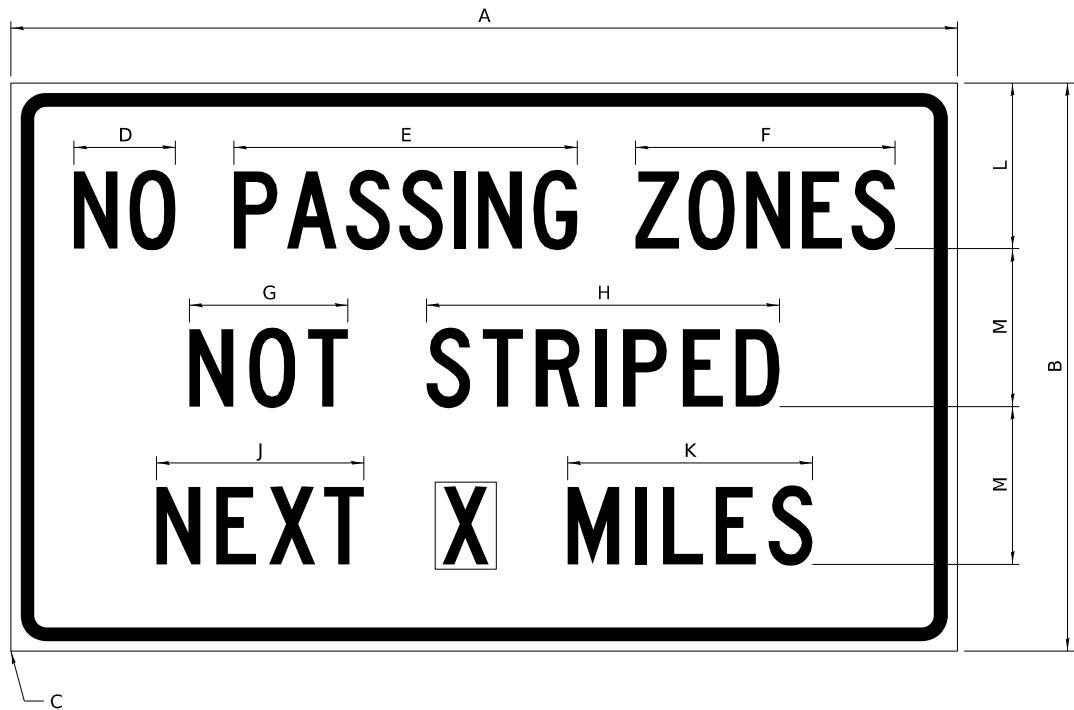
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107BR-1)BDR	STEPHENSON	37	28
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				



WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20-I100



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

GENERAL NOTES

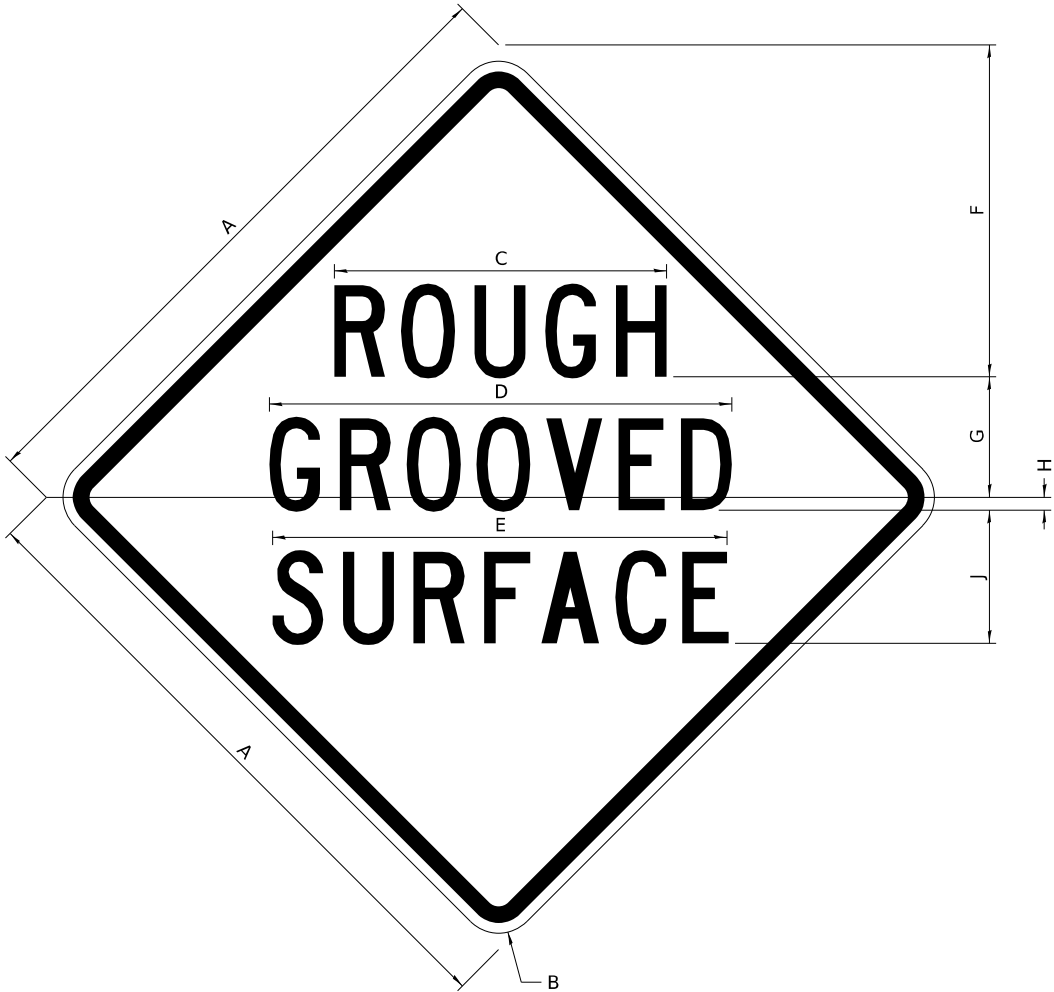
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

ILLINOIS STANDARD W8-I107



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS								
	A	B	C	D	E	F	G	H	J
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

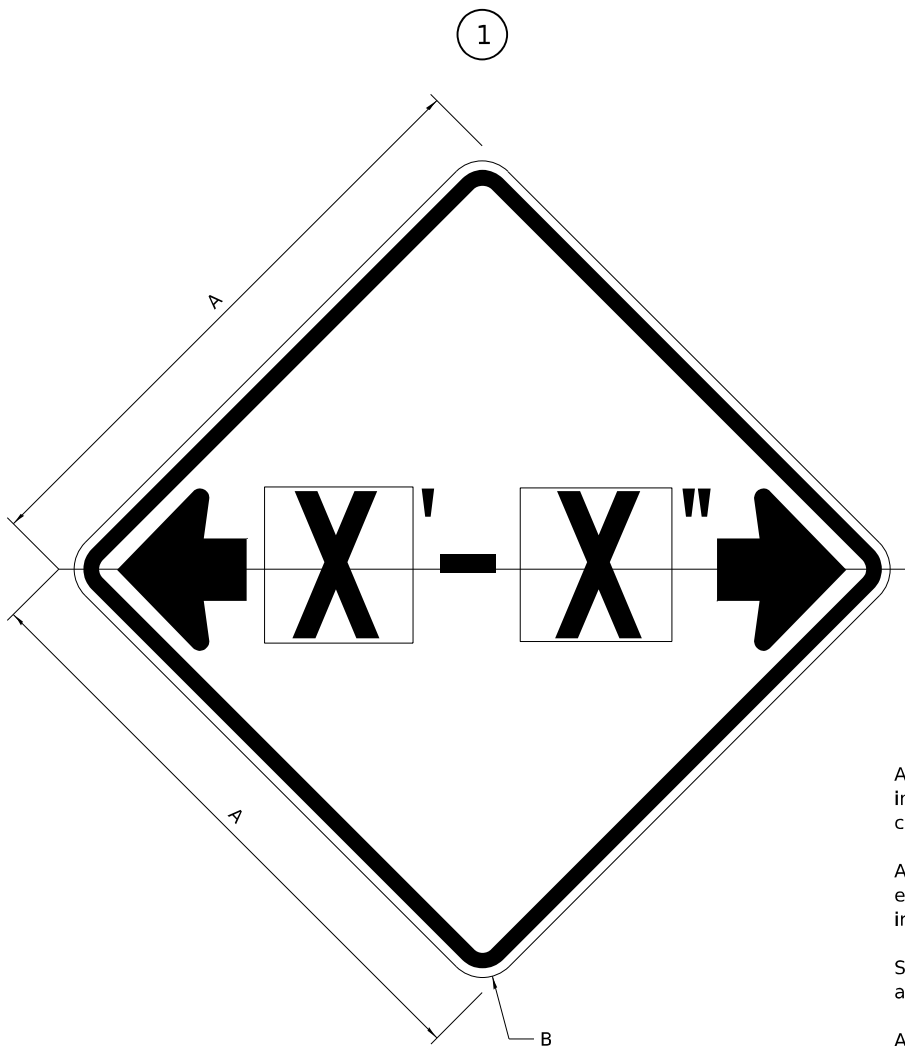
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		DRAWN - JRP	REVISED -						654	(107BR-1)BDR	STEPHENSON	37	29
		CHECKED - JRP	REVISED -						CONTRACT NO. 64T98				
	PLOT DATE = 2/8/2025	DATE - 11/14/2024	REVISED -						ILLINOIS FED. AID PROJECT				

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12-I102



GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

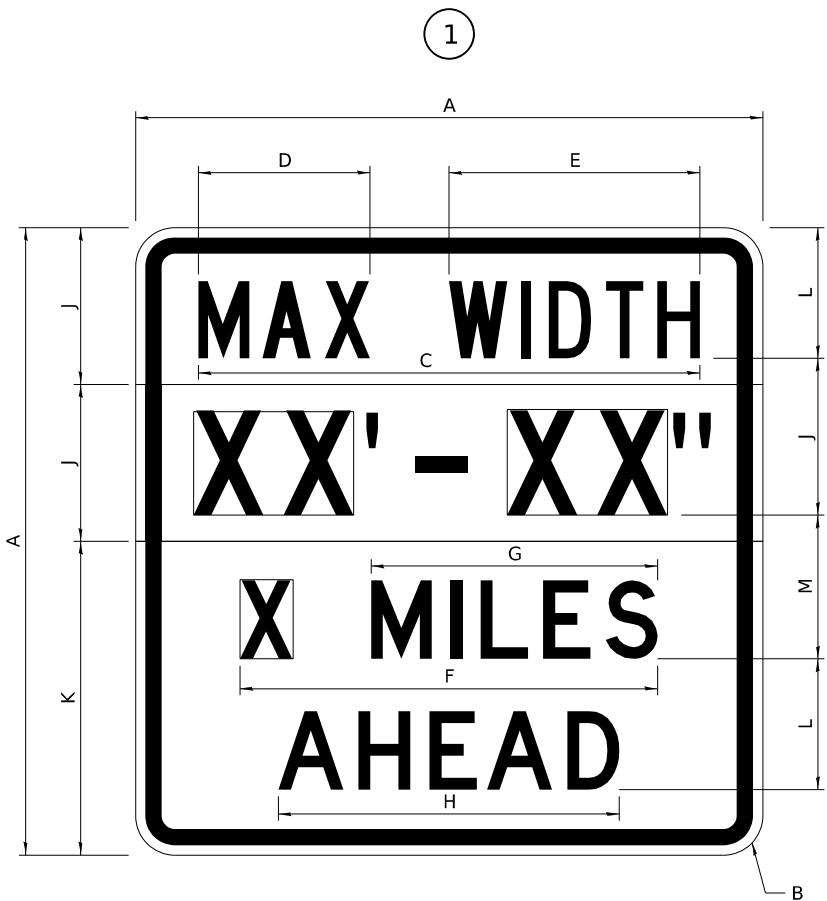
SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

1 Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

Sign not to scale

ILLINOIS STANDARD W12-I103



COLOR LEGEND AND BORDER BACKGROUND (WIDTH) BLACK WHITE FL ORANGE NON-REFLECTORIZED REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

Sign not to scale

XX'-XX" WIDTH AND X MILES ARE VARIABLE
TOP AND BOTTOM OF BACKGROUND WHITE

MODEL: Default
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			CHECKED	-		REVISED	-	
	PLOT DATE	= 2/8/2025	DATE	-		REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 2 DETAILS
IL 73 OVER TRIBUTARY TO YELLOW CREEK

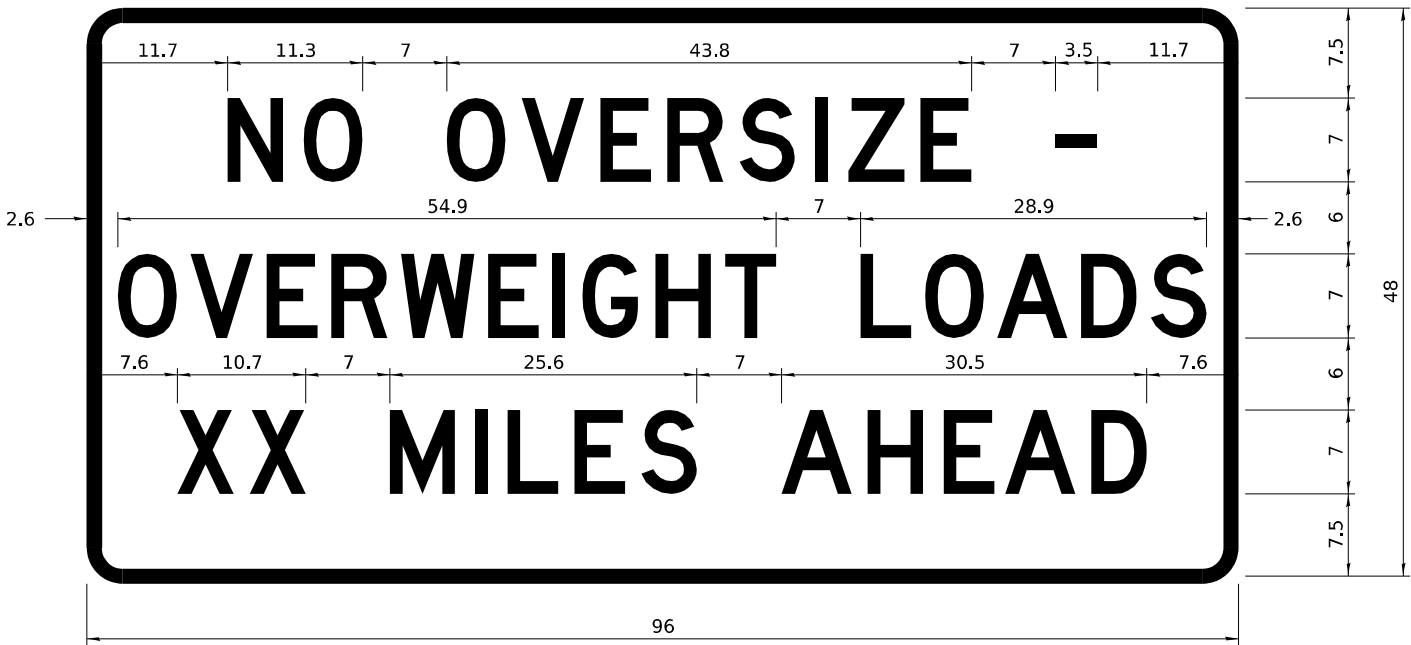
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107BR-1)BDR	STEPHENSON	37	30
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				

WORK ZONE SIGN DETAILS

ROAD CLOSED TO OVERSIZED LOADS

STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR	LEGEND AND BORDER BACKGROUND	BLACK ORANGE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	--------------	---------------------------------

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;
[NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;
Table of letter and object lefts.

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

COLOR	LEGEND AND BORDER BACKGROUND	BLACK WHITE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	-------------	---------------------------------

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

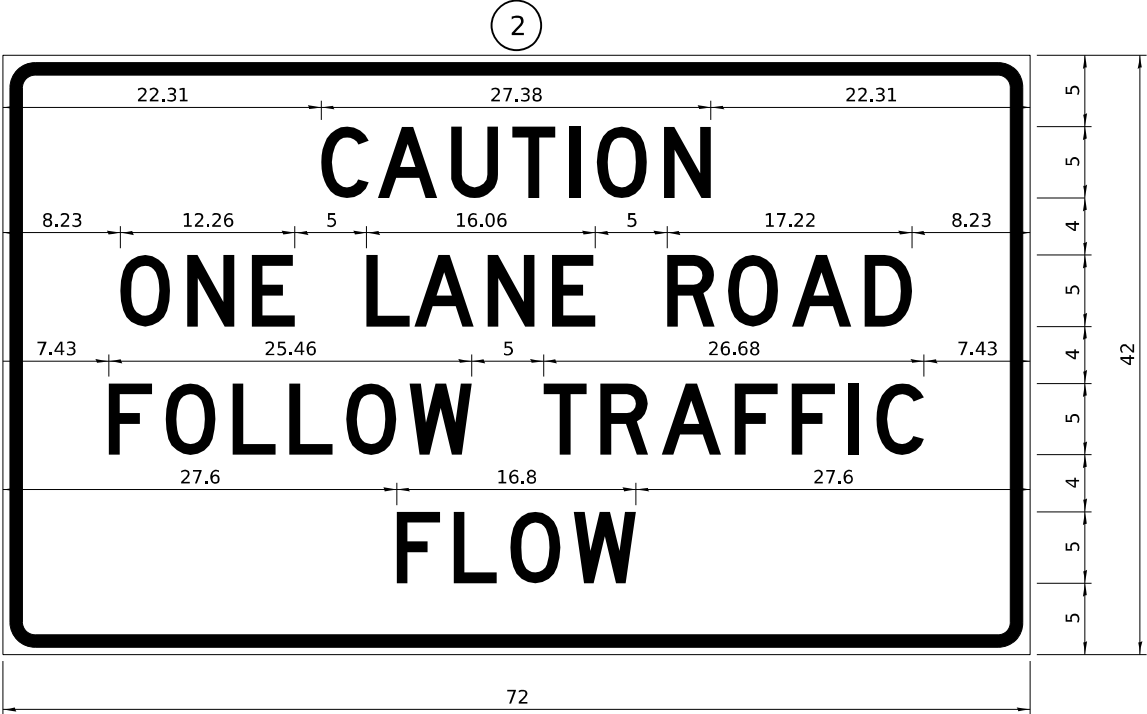
All dimensions are in inches unless otherwise noted.

MODEL: Default
FILE NAME: C:\Users\jpush\OneDrive - QEI\OCDO\Consult\Projects\2406_D2-Var\var 210-017400-Work\WO-03410-CADD\Design\SHI_District Details.dgn

	USER NAME = jpush	DESIGNED -	REVISED - 3-02-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 2 DETAILS IL 73 OVER TRIBUTARY TO YELLOW CREEK			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					654	(107BR-1)BDR	STEPHENSON	37	31
		CHECKED -	REVISED -					CONTRACT NO. 64T98				
	PLOT DATE = 2/8/2025	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
SCALE: N.T.S.		SHEET 3	OF 9	SHEETS	STA.	TO STA.						

ENTRANCE SIGN FOR USE
WITH TEMPORARY SIGNALS

WORK ZONE SIGN DETAILS



COLOR	LEGEND AND BORDER BACKGROUND	BLACK ORANGE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	--------------	---------------------------------

2.25" Radius, 0.88" Border, 0.50" Indent;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

2 This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
-------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	-------

8.23	O	3.51	1.17	N	3.36	1.18	E	3.04
------	---	------	------	---	------	------	---	------

5.00	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05
------	---	------	------	---	------	------	---	------	------	---	------

5.00	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23
------	---	------	------	---	------	------	---	------	------	---	------	------

7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------

5.00	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------

27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60
-------	---	------	------	---	------	------	---	------	------	---	------	-------

Sign not to scale

GENERAL NOTES

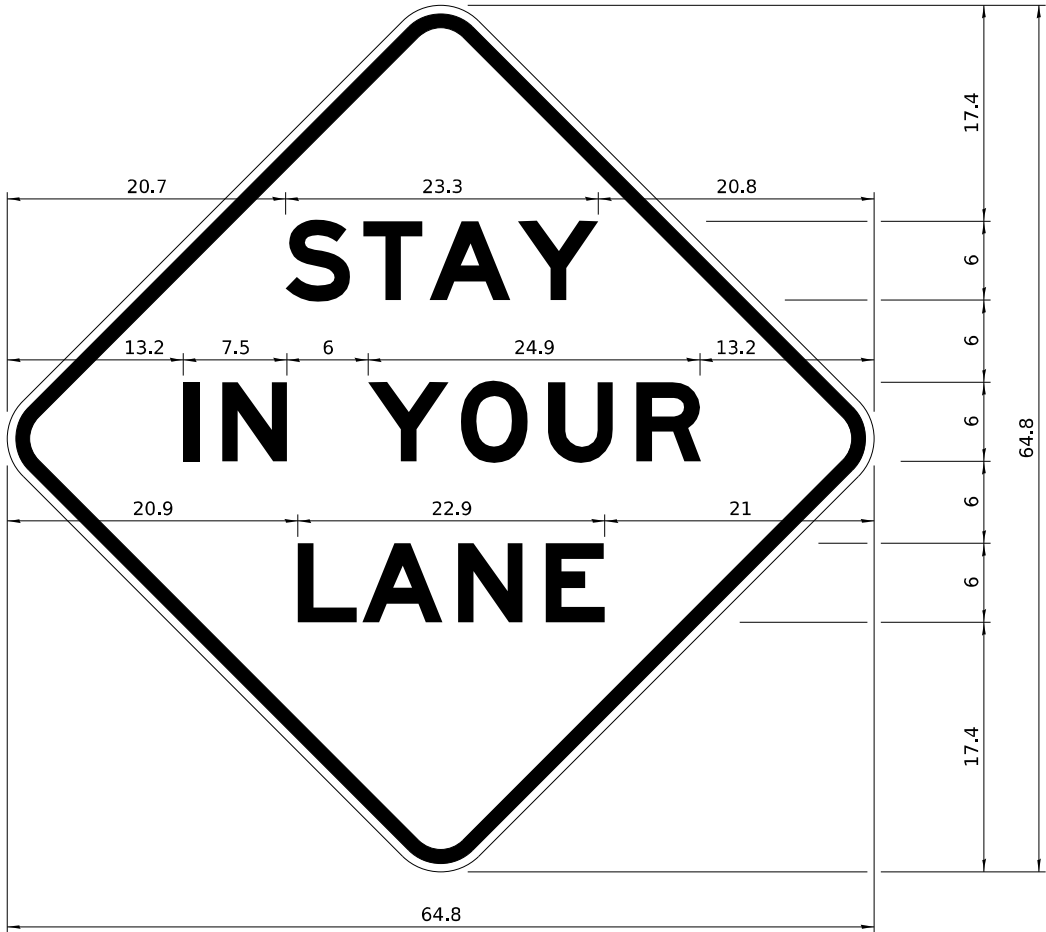
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

STAY IN YOUR LANE



COLOR	LEGEND AND BORDER BACKGROUND	BLACK ORANGE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	--------------	---------------------------------

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

Table of Letter and Object Lefts

S	T	A	Y
20.7	26.8	31.6	38.0

I	N	Y	O	U	R
13.2	15.9	26.7	33.9	40.5	46.8

L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

MODEL: Default
FILE NAME: C:\Users\jpush\OneDrive - QEI\OCDO\Consult\Projects\2406_D2\Var\Var 210-017400-Work\WO-03410-CADD\Design\SHIT_District Details.dgn

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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/8/2025	DATE -	REVISED -

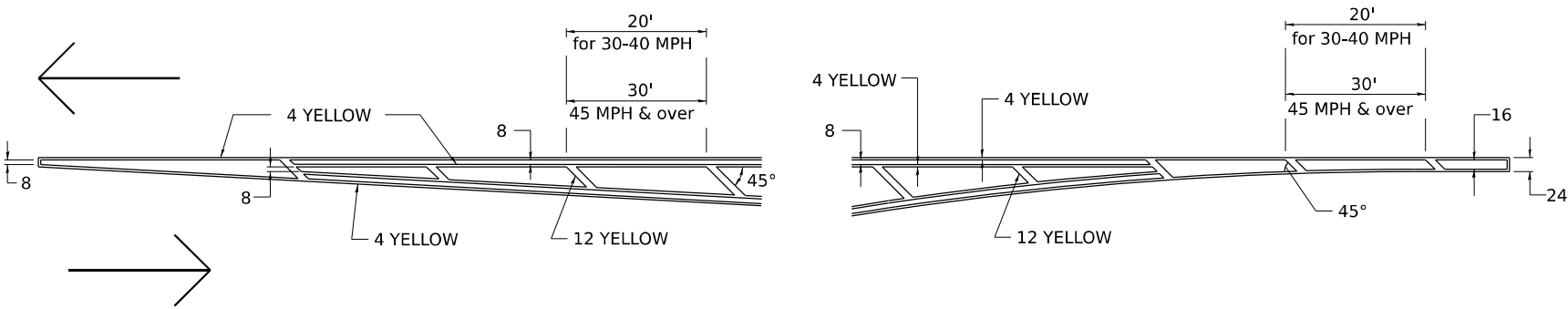
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 2 DETAILS			
IL 73 OVER TRIBUTARY TO YELLOW CREEK			
SCALE: N.T.S.	SHEET 4	OF 9 SHEETS	STA. TO STA.

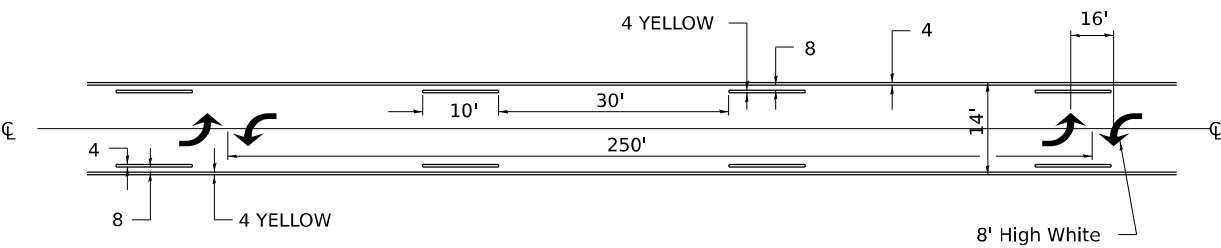
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107BR-1)BDR	STEPHENSON	37	32
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

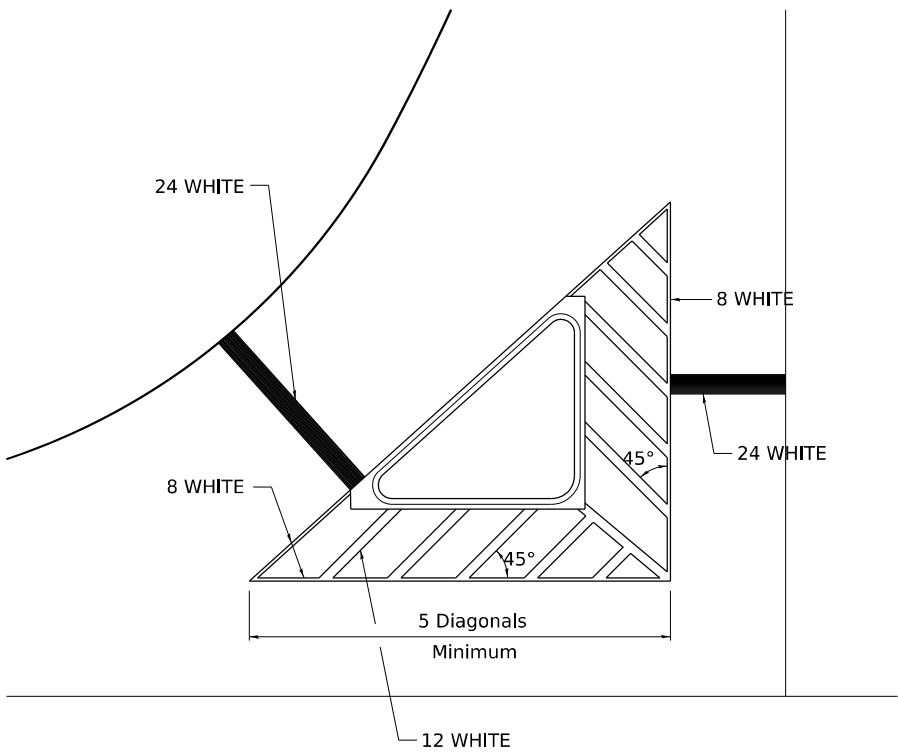


MEDIAN PAVEMENT MARKING



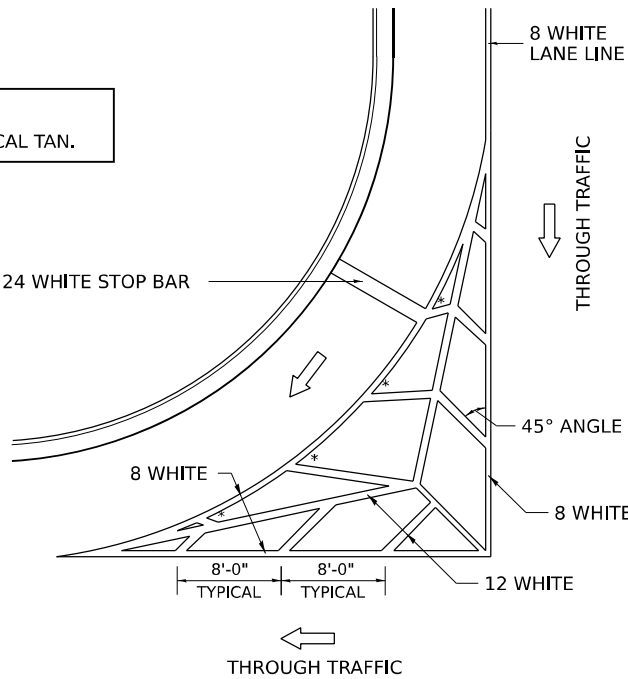
** ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



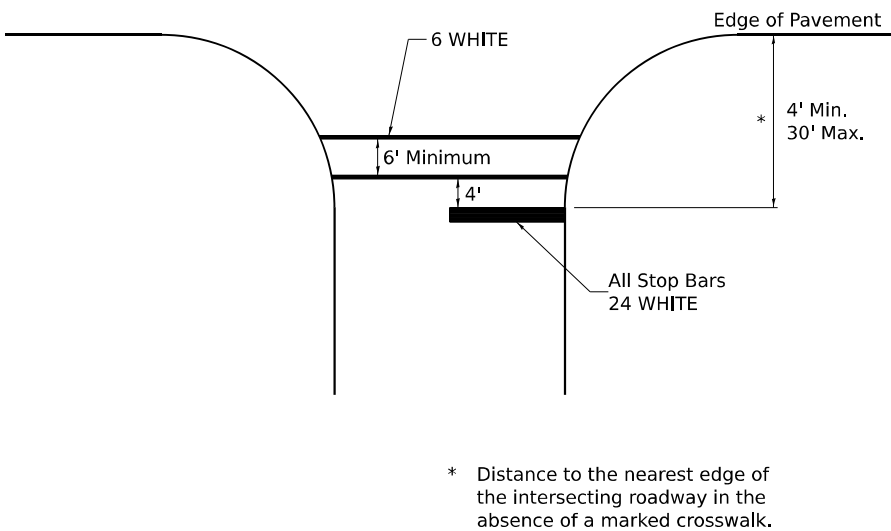
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

MODEL: Default
FILE NAME: C:\Users\jpush\OneDrive - QEI\QCDocs\Consult\Projects\2406_D2-Var\var 210-017400-Work\WO-03410-CADD\Design\SH1_District Details.dgn

USER NAME	= jpush	DESIGNED -	REVISED -	6-27-14
		DRAWN -	REVISED -	3-05-12
		CHECKED -	REVISED -	
PLOT DATE	= 2/8/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

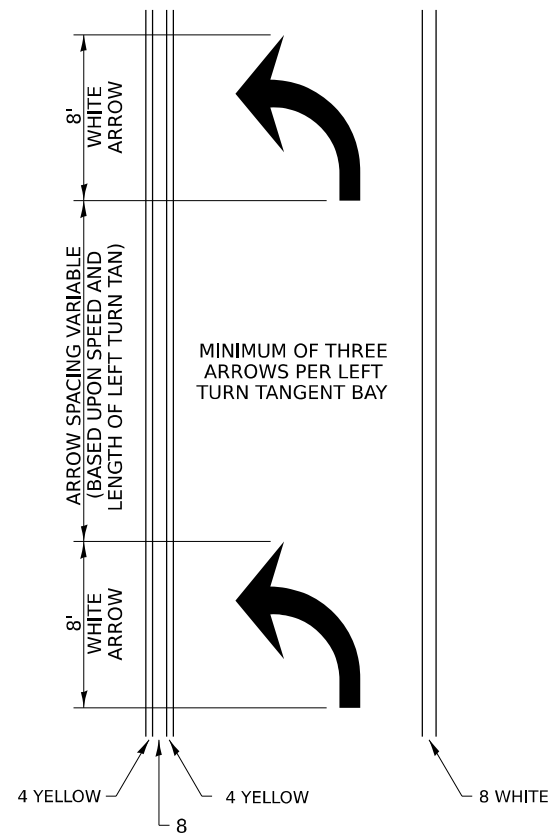
DISTRICT 2 DETAILS
IL 73 OVER TRIBUTARY TO YELLOW CREEK

SCALE: N.T.S. SHEET 5 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107BR-1)BDR	STEPHENSON	37	33
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT



SYMBOLS

- ◀ ONE-WAY
AMBER MARKER
- ◁ ONE-WAY
CRYSTAL MARKER
- ◆ TWO-WAY
AMBER MARKER

ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

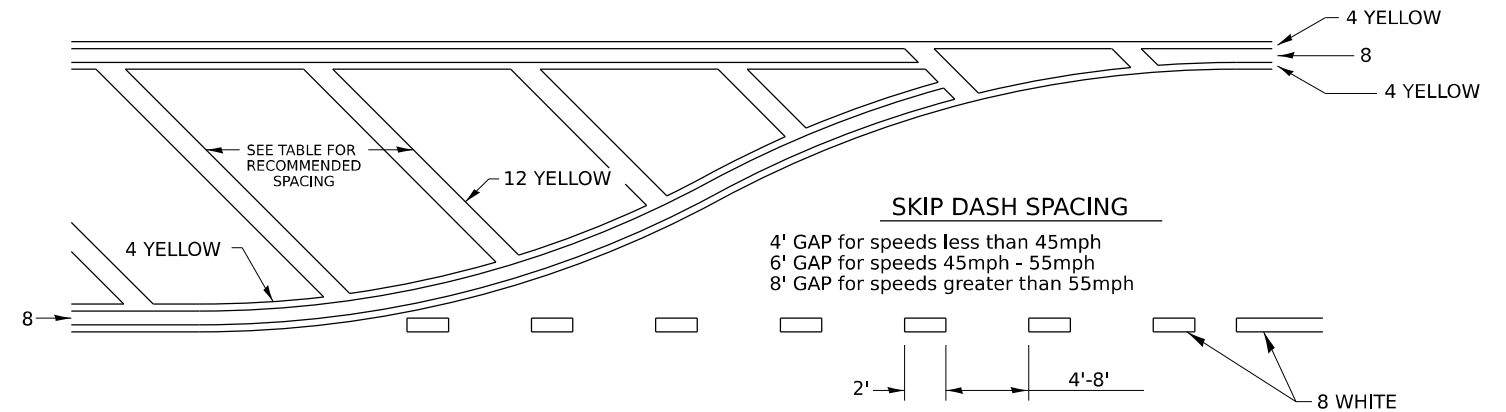
6 at 40' O.C.
APPROACH SIDE ONLY

See Typical –
Drawing at right

6' MINIMUM —

6 WHITE
— CROSSWALK LINES

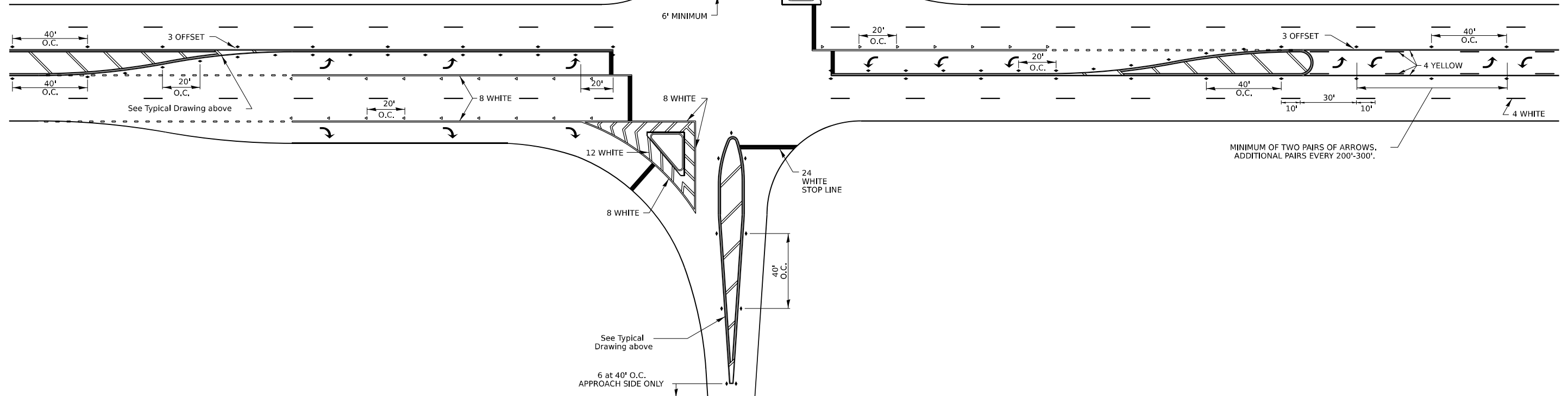
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



USER NAME = jpush	DESIGNED -	REVISED - 6-27-14
	DRAWN -	REVISED - 3-05-12
	CHECKED -	REVISED -
PLOT DATE = 2/8/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

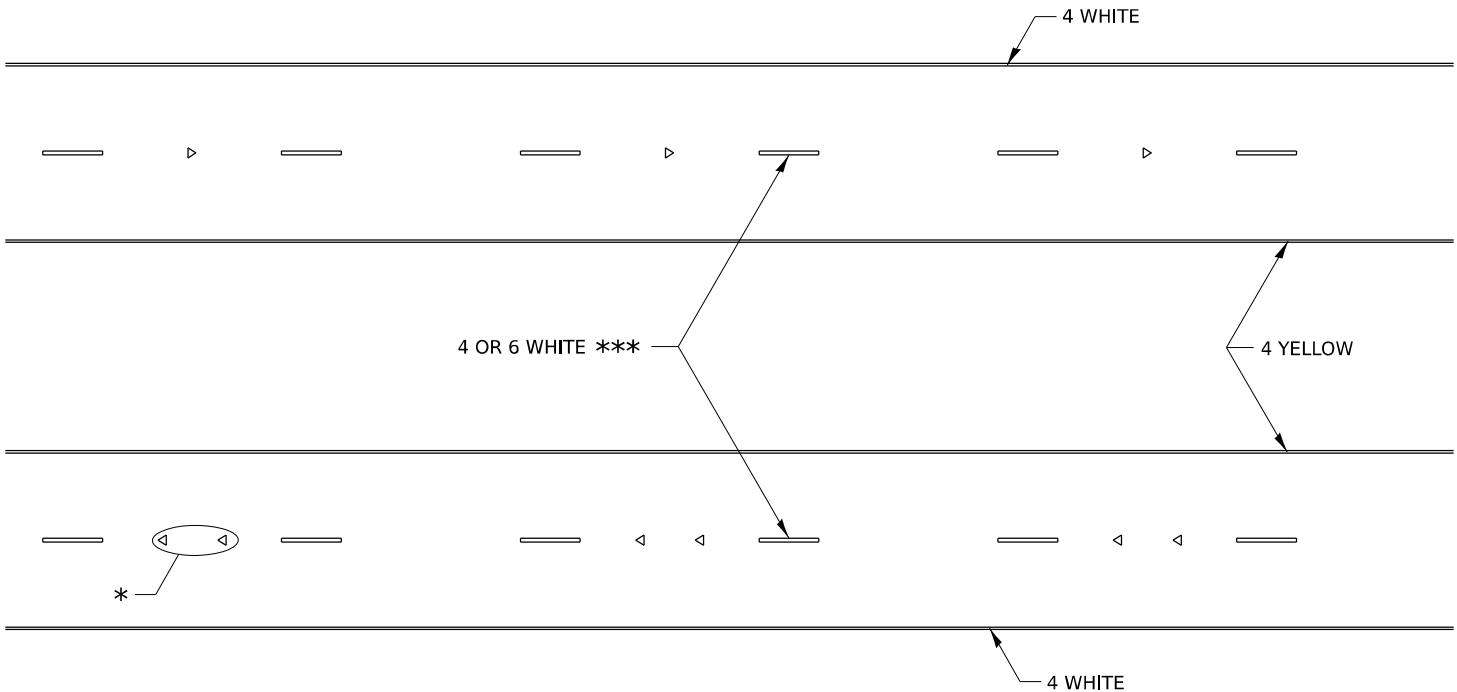
DISTRICT 2 DETAILS

IL 73 OVER TRIBUTARY TO YELLOW CREEK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107BR-1)BDR	STEPHENSON	37	34
		CONTRACT NO. 64T98		
		ILLINOIS FED. AID PROJECT		

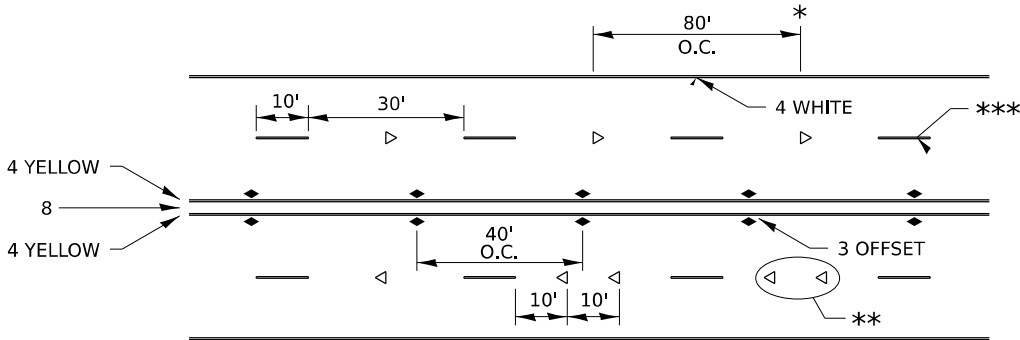
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TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT ≥ 20,000.

MULTI-LANE / DIVIDED



* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE
10 MPH LOWER THAN POSTED SPEEDS.

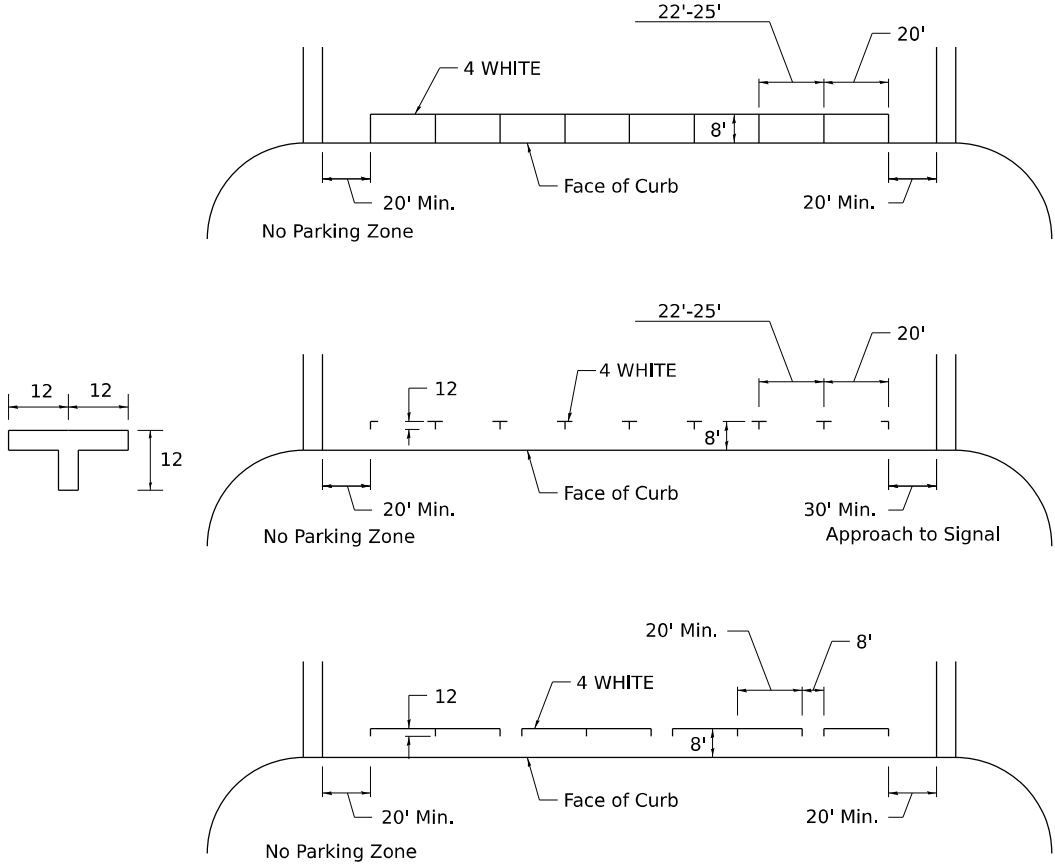
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT
LESS THAN 40 MPH USE 4" LINE, SPEED LIMIT 40 MPH AND
OVER USE 6" LINE.

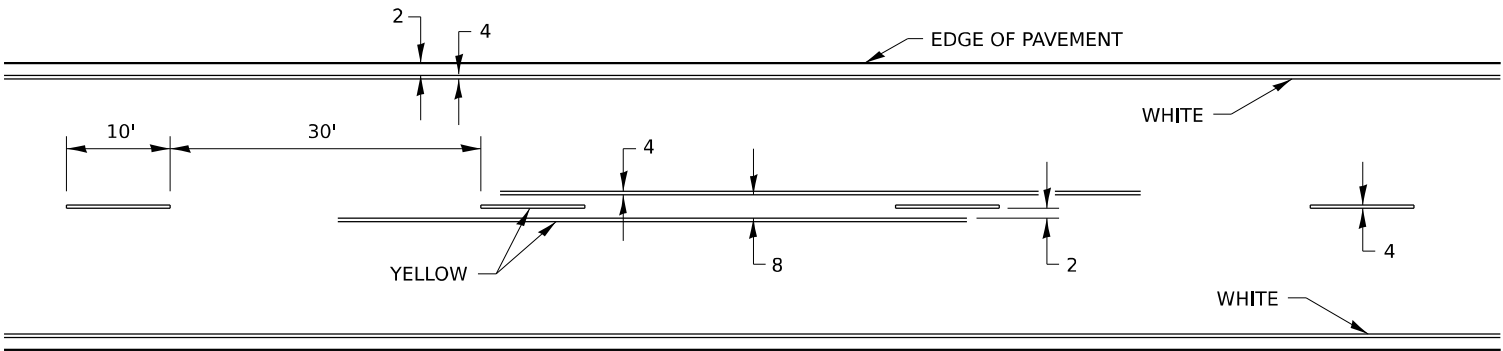
MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS
DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



MODEL: Default
FILE NAME: C:\Users\jpush\OneDrive - QEI\QCDocs\Consult\Projects\2406_D2-Var\Var 210-017400-Work\WO-03410-CADD\Design\SH1_District Details.dgn

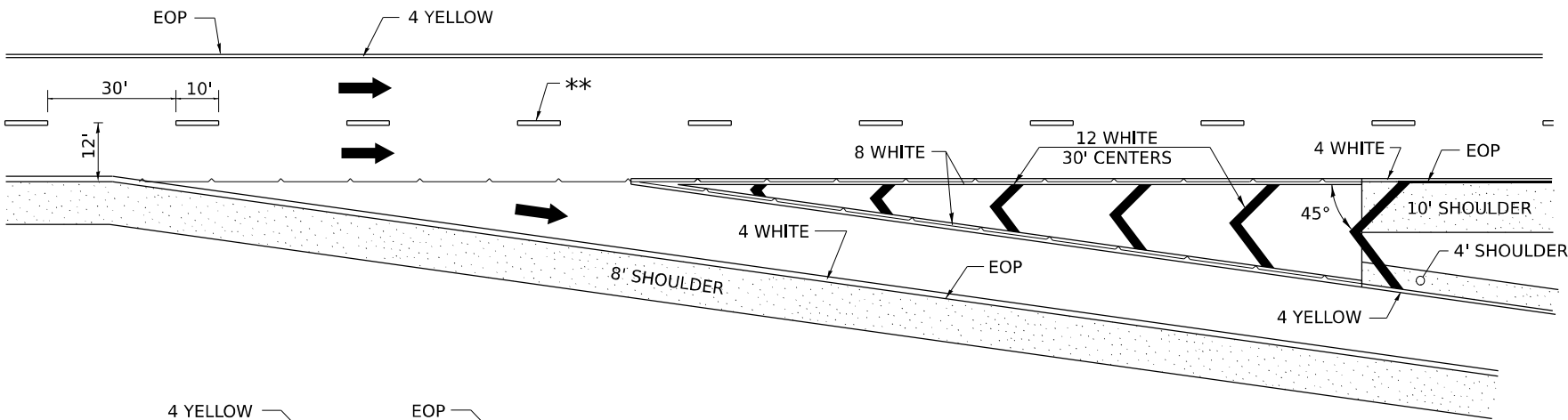
	USER NAME = jpush	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 2 DETAILS IL 73 OVER TRIBUTARY TO YELLOW CREEK	SCALE: N.T.S.	SHEET 7	OF 9	SHEETS	STA.	TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - 8-27-13									654	(107BR-1)BDR	STEPHENSON	37	35
		CHECKED -	REVISED - 11-28-12									CONTRACT NO. 64T98				
	PLOT DATE = 2/8/2025	DATE -	REVISED -									ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

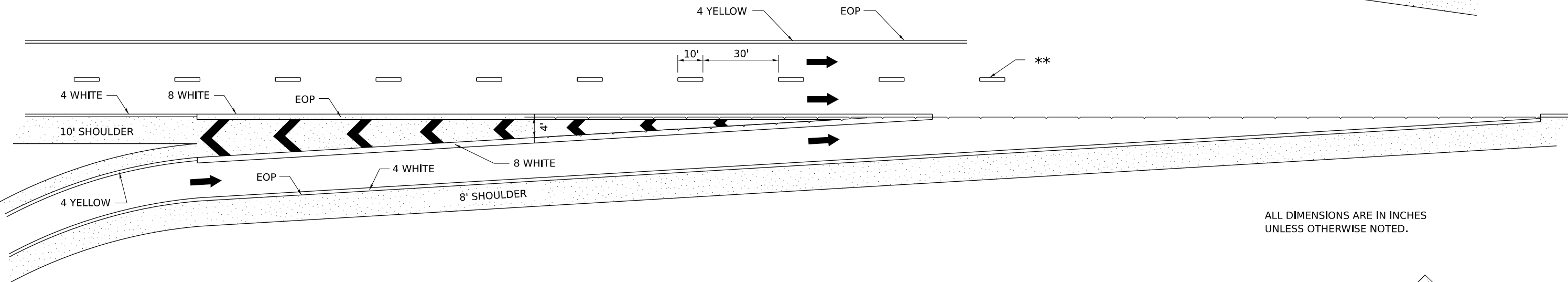
** 6" WHITE ON INTERSTATES, WHERE THE SPPD LIMIT IS 65 MPH, OR WHEN DIRECTED BY THE ENGINEER.
4" WIDE AT ALL OTHER LOCATIONS.

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS

EXIT RAMP

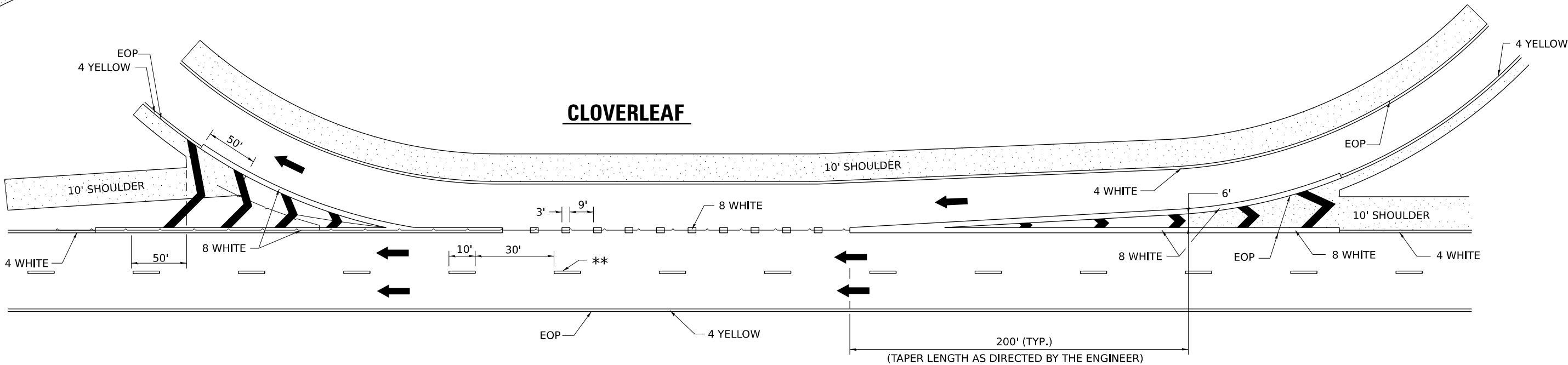


ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

CLOVERLEAF



MODEL: Default
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PLOT DATE = 2/8/2025	USER NAME = jpush	DESIGNED -	REVISED - 9-15-23
		DRAWN -	REVISED - 8-27-13
		CHECKED -	REVISED - 10-18-11
	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

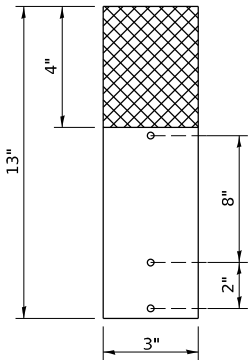
DISTRICT 2 DETAILS			
IL 73 OVER TRIBUTARY TO YELLOW CREEK			
SCALE: N.T.S.	SHEET 8	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107BR-1)BDR	STEPHENSON	37	36
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				

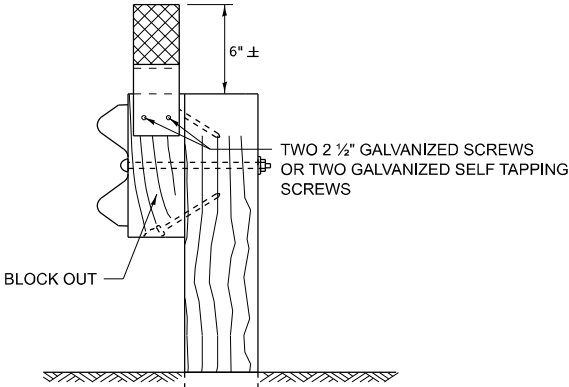
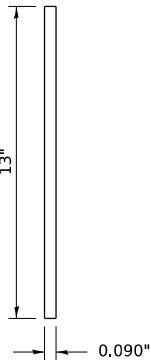
GUARDRAIL REFLECTORS, TYPE C (SPECIAL)

REFLECTORS FOR GUARDRAIL BLOCK OUT OR DELINEATOR POST

STRAIGHT
REFLECTOR / DELINEATOR



SIDE VIEW

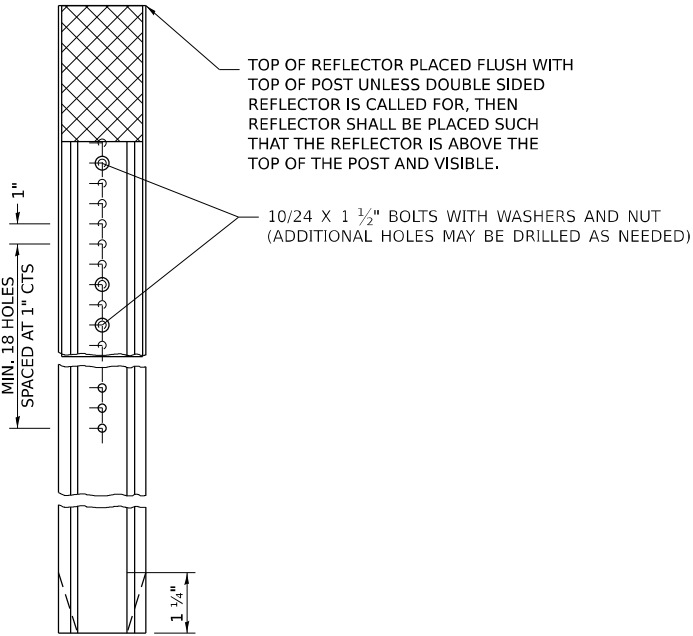


MOUNTED ON A GUARDRAIL BLOCK OUT

REFLECTORS SHALL BE MOUNTED DIRECTLY TO BLOCK OUTS.

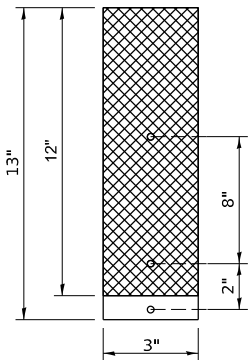
REFLECTORS MOUNTED ON WOODEN OR PLASTIC OR METAL BLOCK OUT SHALL BE MOUNTED USING TWO 2 1/2" GALVANIZED SCREWS WITH WASHERS OR TWO SELF TAPPING GALVANIZED SCREWS WITH WASHERS.

ADDITIONAL SHEETING MAY BE ADDED AS NEEDED FOR TURN AROUNDS AS SHOWN IN THE PLANS

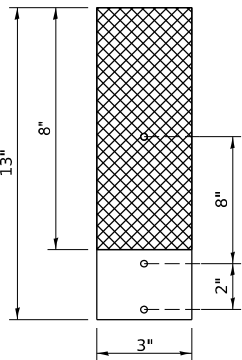


MOUNTED ON A DELINEATOR POST

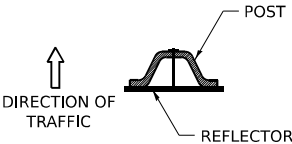
REPLACING
3 BUTTON
DELINEATOR



REPLACING
2 BUTTON
DELINEATOR



ADDITIONAL HOLES SHALL BE DRILLED IN THE REFLECTORS AS SHOWN ABOVE.



DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE REFLECTOR ATTACHECD AS SHOWN ABOVE.

NOTE:

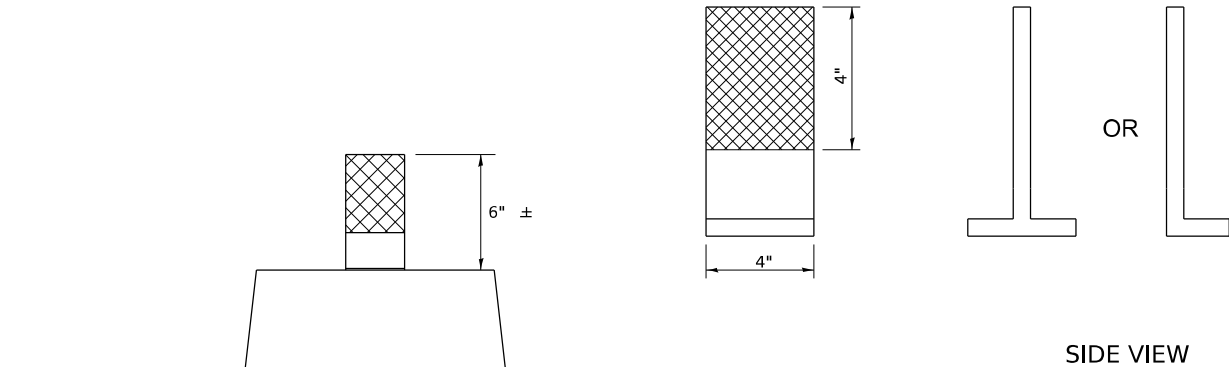
REFLECTORS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR GUARDRAIL REFLECTORS, TYPE C (SPECIAL), WHICH PRICE SHALL ALSO INCLUDE SCREWS, WASHERS OR AN APPROVED BONDING AGENT.

REFLECTORS INSTALLED ON TWO LANE ROADS SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE CRYSTAL.

REFLECTORS INSTALLED ON CENTER BARRIER OR IN THE MEDIAN SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE AMBER.

REFLECTORS INSTALLED ON DIVIDED HIGHWAYS ON THE OUTSIDE OF THE ROADWAY SHALL BE DOUBLE SIDED CRYSTAL.

SPACING FOR REFLECTORS SHALL BE ACCORDING TO STANDARD 782006 UNLESS OTHERWISE NOTED IN THE PLANS.



SIDE VIEW

NOTE:

REFLECTORS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR GUARDRAIL REFLECTORS, TYPE C (SPECIAL), WHICH PRICE SHALL ALSO INCLUDE SCREWS, WASHERS OR AN APPROVED BONDING AGENT.

REFLECTORS INSTALLED ON TWO LANE ROADS SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE CRYSTAL.

REFLECTORS INSTALLED ON CENTER BARRIER SHALL BE DOUBLE SIDE AND BOTH SIDES SHALL BE AMBER.

REFLECTORS INSTALLED ON DIVIDED HIGHWAYS ALONG THE OUSTIDE OF THE HIGHWAY SHALL BE DOUBLE SIDED CRYSTAL.

SPACING FOR REFLECTORS SHALL BE ACCORDING TO STANDARD 782006 UNLESS OTHERWISE NOTED IN THE PLANS.

REFLECTORS MOUNTED ON BARRIER WALL

MODEL: Default
FILE NAME: C:\Users\jpush\OneDrive - QEI\OC\Docs\Consult\Projects\2406_D2-Var\Var 210-017400-Work\WO-03410-CADD\Design\SHI_District Details.dgn

	USER NAME = jpush	DESIGNED -	REVISED - 3-07-24
		DRAWN -	REVISED - 4-27-23
		CHECKED -	REVISED - 6-21-21
	PLOT DATE = 2/8/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 2 DETAILS			
IL 73 OVER TRIBUTARY TO YELLOW CREEK			
SCALE: N.T.S.	SHEET 9	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
654	(107BR-1)BDR	STEPHENSON	37	37
CONTRACT NO. 64T98				
ILLINOIS FED. AID PROJECT				