

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

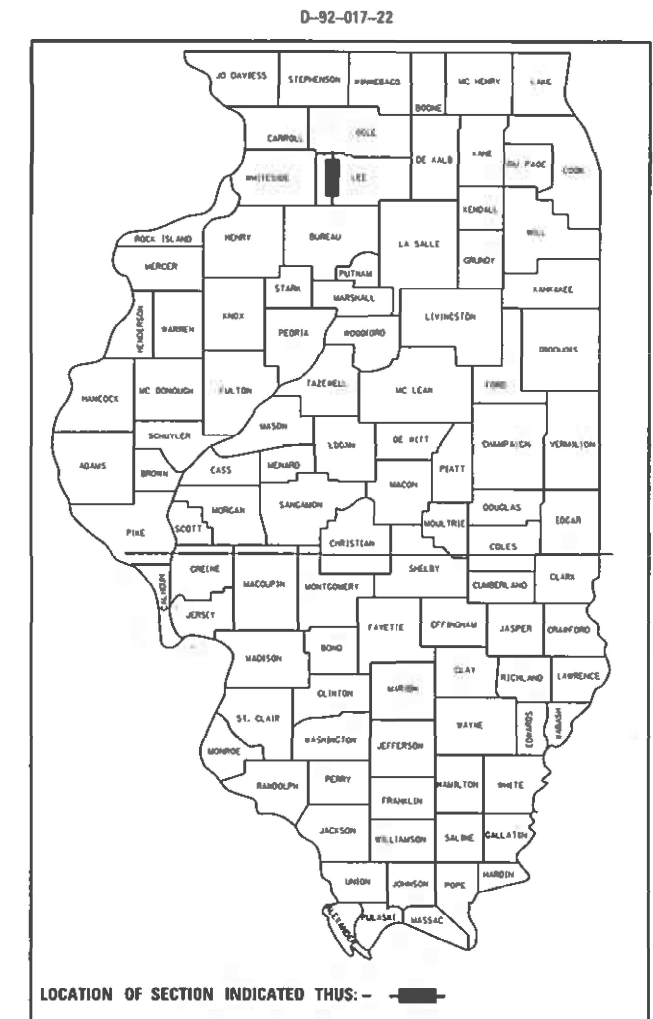
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(102 BR-4)BDR	LEE	48	1
		ILLINOIS	CONTRACT NO. 64S30	

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

FAP ROUTE 316 (IL 26)
SECTION (102 BR-4)BDR
PROJECT HBFP-JDCW(034)
TYPE of IMPROVEMENT: BRIDGE REPAIR
SN 052-0061 OVER COON CREEK
LEE COUNTY

C-92-057-23

EAST GROVE TOWNSHIP
T19N R9E, SECTIONS 3&4



QUANDEL
 CONSULTANTS

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

DESIGN FIRM - PROF/STRUCT ENGINEER
 IL LIC. 184,005,283-0006

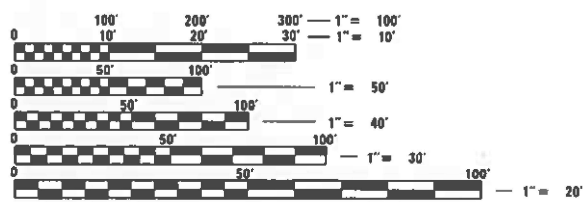
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED Jan 30 2024
Stephen M. Travisano
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 22, 2024 [Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

March 22, 2024 [Signature]
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

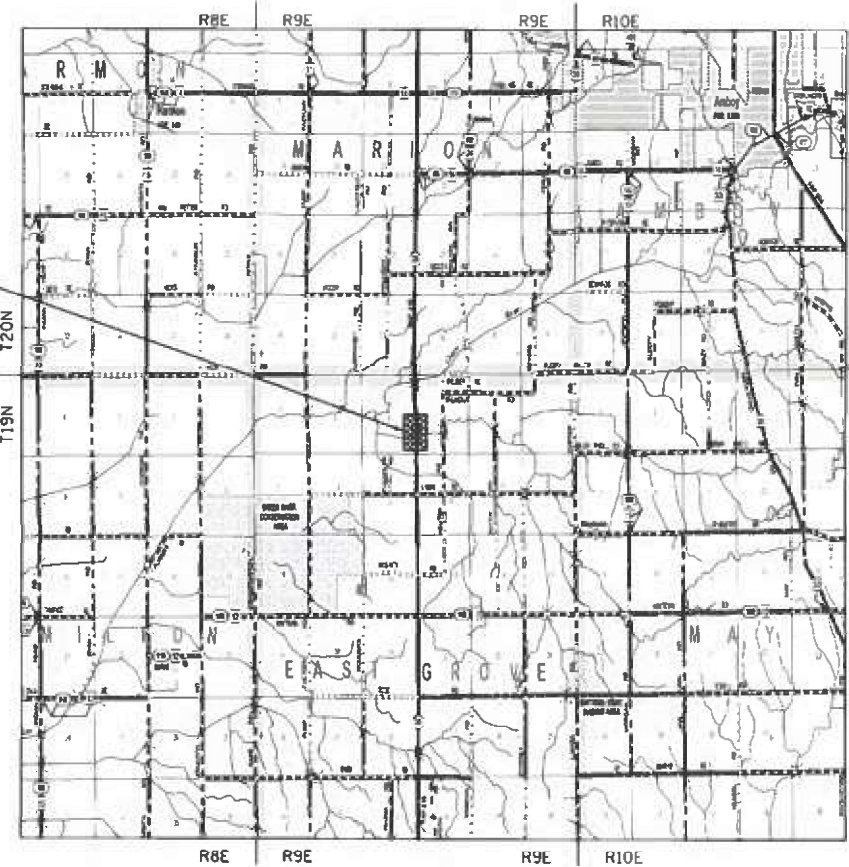
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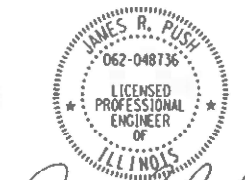
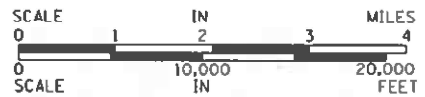
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: JAMES R. PUSH, PE (630) 930-6420
PROJECT MANAGER: MAHMOUD ETEMADI (815) 284-5393
CONTRACT NO. 64S30



GROSS LENGTH = 645.33 FT. = 0.12 MILE
 NET LENGTH = 645.33 FT. = 0.12 MILE



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

DATE: 01/29/2024

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).

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

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT.

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.

RELOCATE TEMPORARY IMPACT ATTENUATORS SHALL INCLUDE STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE DEVICE IS NOT NEEDED FOR A TIME, AS SHOWN ON THE STAGING PLANS. THIS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.

WHEN RELOCATE TEMPORARY CONCRETE BARRIER IS SPECIFIED, THE WALL SHALL BE REMOVED, STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE WALL IS NOT NEEDED FOR A TIME AS SHOWN ON THE STAGING PLANS, RELOCATED AND REINSTATED AT THE NEW LOCATION. THE REINSTALLATION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR A NEW INSTALLATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.

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

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S):	HMA CONC BINDER CSE	HMA CONC SURF CSE
PG:	PG 64 -22	PG 64 -22
DESIGN AIR VOIDS:	4.0% @ N DESIGN - 50	4.0% @ N DESIGN - 70
MIXTURE COMPOSITION:	IL 19.0	IL 9.5
FRICTION AGGREGATE:		MIX "C"
QUALITY MANAGEMENT PROGRAM:	QC / QA	QC / QA
SUBLOT SIZE:	N / A	N / A

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE PLAN QUANTITIES:

BITUMINOUS MATERIALS (TACK COAT) 0.05 LBS / SQ FT (ON PAVEMENT)
 BITUMINOUS MATERIALS (TACK COAT) 0.025 LBS / SQ FT (FOG)
 HOT-MIX ASPHALT MATERIAL 0.056 TON / SQ YD PER 1"
 AGGREGATE MATERIAL 1.60 TONS / CU YD

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.

INDEX OF SHEETS

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STATE STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
630001-13	STEEL PLATE BEAM GUARDRAIL
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
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
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
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS ≥ 45 MPH
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

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	DRAWN - JRT	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/29/2024	DATE - 01/29/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(102 BR-4)BDR	LEE	48	2
CONTRACT NO. 64S30				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	WHITESIDE COUNTY FUNDING 80% FED/ 20% STATE	
				CONSTRUCTION CODE	
				Roadway 0006	BRIDGE 0059
				ROADWAY	SN 052-0061
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	11	11	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	346	346	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	544	544	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	240	240	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	159	159	
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	587	587	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	394	394	
44213200	SAW CUTS	FOOT	369	369	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	115	115	
48203023	HOT-MIX ASPHALT SHOULDERS. 6 1/2"	SQ YD	356	356	
50102400	CONCRETE REMOVAL	CU YD	4.2		4.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	4.9		4.9
50300260	BRIDGE DECK GROOVING	SQ YD	447		447
50300300	PROTECTIVE COAT	SQ YD	514		S14
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	809		809
50800515	BAR SPLICERS	EACH	8		8
52000110	PREFORMED JOINT STRIP SEAL	FOOT	42		42
58700300	CONCRETE SEALER	SQ FT	118		118
59000200	EPOXY CRACK INJECTION	FOOT	20.5		20.5

* DENOTES SPECIALTY ITEM



USER NAME = jpushh	DESIGNED - JRP	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. [SHEET 1 OF 3 SHEETS] STA. TO STA.

F.A.P. RTE. 1	SECTION	COUNTY	TOTAL SHEET NO.
316	(102 BR-4IBDR	LEE	48 3
			64830
ILLINOIS FED. AID PROJECT			

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	WHITESIDE COUNTY FUNDING 80% FED/ 20% STATE	
				CONSTRUCTION CODE	
				Roadway 0006	BRIDGE 0059
				ROADWAY	SN 052-0061
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	550.00	550.00	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	877	877	
67100100	MOBILIZATION	L SUM	1	1	
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	18	18	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1003	1,003	
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	2866	2,866	
70307210	TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE	FOOT	48	48	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	587.50	587.50	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	587.50	587.50	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2383	2,383	
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	579	579	

* DENOTES SPECIALTY ITEM



USER NAME = jpushh	DESIGNED - JRP	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: N.T.S.	SHEET 2	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE. 316	SECTION (102 BR-4)BDR	COUNTY LEE	TOTAL SHEETS 48	SHEET NO. 4
CONTRACT NO. 64S30				ILLINOIS FED. AID PROJECT

PAVING SCHEDULE

LOCATION			EXCAVATING AND GRADING EXISTING SHOULDER	AGGREGATE SUBGRADE IMPROVEMENT 12"	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", N70	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SAW CUTS	AGGREGATE WEDGE SHOULDER, TYPE B	HOT-MIX ASPHALT SHOULDERS, 6 1/2"
			20200600	30300112	40600290	40600370	40603080	40604052	44000155	44213200	48102100	48203023
STA	STA	LT / RT	(UNIT)	(SQ YD)	(POUND)	(FOOT)	(TON)	(TON)	(SQ YD)	(FOOT)	(TON)	(SQ YD)
ROADWAY												
632+96.73	633+56.73	LT / RT			117.00	120.00	58.43	140.01	173.33	192.64		
634+94.95	635+60.65	LT / RT			117.00	120.00	58.43	140.01	173.33	176.00		
630+62.81	631+60.31	RT									29.48	
636+26.81	637+24.25	RT									25.54	
631+47.46	632+45.05	LT									25.62	
637+10.10	638+07.60	LT									33.42	
SHOULDERS												
630+94.00	633+42.84	RT	2.49	82.95	55.99		4.51	65.32				85.25
633+42.84	633+74.02	RT	0.31	12.71	8.58		6.56	9.61				12.71
635+05.92	635+41.94	RT	0.3	12.06	8.14		2.09	9.13				12.07
635+41.94	637+45.00	RT	2.03	67.69	45.69		6.58	53.30				69.57
631+12.00	633+28.80	LT	2.17	72.27	81.30		6.22	56.91				74.28
633+28.80	633+60.08	LT	0.31	12.76	14.35		3.23	9.64				12.76
634+90.95	635+20.95	LT	-0.7	11.93	13.43		6.15	9.03				13.96
635+20.95	637+45.00	LT	3.18	72.78	81.88		5.87	57.31				74.80
STAGE II SHOULDERS AT TRANSITION												
632+96.73	633+28.80	LT						8.42	10.69			
633+28.80	633+60.08	LT						9.97	12.76			
634+90.95	635+20.95	LT						9.34	11.93			
635+20.95	635+60.65	LT						8.93	11.33			
TOTALS			10.09	345.15	543.36	240.00	158.07	586.93	393.37	368.64	114.06	355.40
USE			11	346	544	240	159	587	394	369	115	356

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 PLOT DATE = 1/29/2024

DESIGNED - RG
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 CHECKED - SMK
 DATE - 11/01/2023

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(102 BR-4)BDR	LEE	48	6
CONTRACT NO. 64S30			ILLINOIS FED. AID PROJECT	

GUARDRAIL AND TEMPORARY CONCRETE BARRIER SCHEDULE

LOCATION			STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	GUARDRAIL REMOVAL	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE C (SPECIAL)
STA	STA	LT / RT	63000001 (FOOT)	63100085 (EACH)	63100169 (EACH)	63200310 (FOOT)	70400100 (FOOT)	70400200 (FOOT)	70600250 (EACH)	70600350 (EACH)	72501000 (EACH)	X7820007 (EACH)
631+49.62	633+37.12	RT	187.5									4
635+48.52	636+36.02	RT	87.5									4
632+35.68	633+23.18	LT	87.5									4
635+33.55	637+21.05	LT	187.5									4
633+37.12	633+74.02	RT		1								
635+05.92	635+48.52	RT		1								
633+23.18	633+60.08	LT		1								
634+90.95	635+33.55	LT		1								
630+99.62	631+49.62	RT			1						1	
636+36.02	636+86.02	RT			1						1	
631+85.68	632+35.68	LT			1						1	
637+21.05	637+71.05	LT			1						1	
631+04.73	633+74.02	RT				270.00						
635+05.92	636+79.86	RT				169.00						
631+90.35	633+60.08	LT				170.00						
634+90.95	637+64.31	LT				268.00						
631+27.54	637+14.54	LT / RT					587.50	587.50	2	2		
633+74.19	634+90.74	LT / RT										14
TOTALS			550.00	4	4	877.00	587.50	587.50	2	2	4	30
USE			550.00	4	4	877.00	587.50	587.50	2	2	4	30

NOTE:

THE GUARDRAIL AND BARRIER WALL REFLECTORS SHOWN ON DISTRICT DETAIL 55.1 SHALL BE AS SHOWN, EXCEPT THERE SHALL BE NO FLEXIBLE HINGE. THE GUARDRAIL MARKERS SHALL BE THE STRAIGHT MARKER SHOWN ON THE DELINEATOR POST ON DETAIL 55.1. THE BARRIER WALL MARKERS MAY EITHER BE "T" OR "L" SHAPE WITH NO FLEXIBLE HINGE.

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USER NAME = rgoertz	DESIGNED - RG	REVISED -
PLOT SCALE = 0.16666633 / in.	DRAWN - RG	REVISED -
PLOT DATE = 1/29/2024	CHECKED - SMK	REVISED -
	DATE - 11/01/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(102 BR-4)BDR	LEE	48	7
CONTRACT NO. 64S30				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE

LOCATION			SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE	PAINT PAVEMENT MARKING - LINE 4"	PAVEMENT MARKING REMOVAL - WATER BLASTING
			70300150	70307120	70307210	78001110	78300202
STA	STA	LT / RT	(SQ FT)	(FOOT)	(FOOT)	(FOOT)	(SQ FT)
STAGE I							
629+66.00	638+30.00	LT / RT	286.63	860.00			
631+28.00	637+12.00	LT	192.85	579.00			
629+56.00		RT			12.0		
639+15.00		LT			12.0		
629+56.00	632+67.92	RT					103.97
636+01.28	639+15.00	RT					104.57
629+56.00	639+15.00	LT					317.77
629+56.00	632+67.92	LT / RT					25.99
636+01.28	639+15.00	LT / RT					26.14
STAGE II							
631+28.00	637+12.00	RT	192.86	579.00			
630+16.00	638+68.00	LT / RT	282.38	848.00			
629+56.00		RT	24.00		12.0		
639+15.00		LT	24.00		12.0		
FINAL							
629+56.00	639+15.00	RT				953	
629+56.00	639+15.00	LT				953	
629+56.00	639+15.00	LT / RT				477	
TOTALS			1,002.72	2,866.00	48.00	2,383.00	578.44
USE			1,003	2,866	48	2,383	579

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 DATE - 11/01/2023

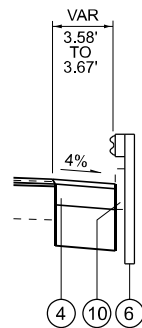
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

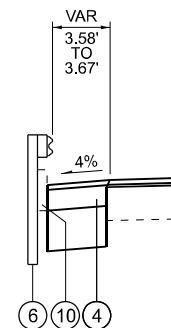
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316	(102 BR-4)BDR	LEE	48	8
CONTRACT NO. 64S30				
ILLINOIS FED. AID PROJECT				



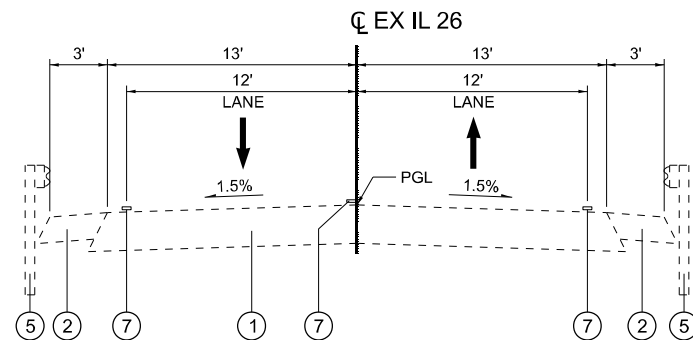
RIGHT SHOULDER WITH CURB

STA 633+42.84 TO STA 633+74.02
 STA 635+05.92 TO STA 635+41.94



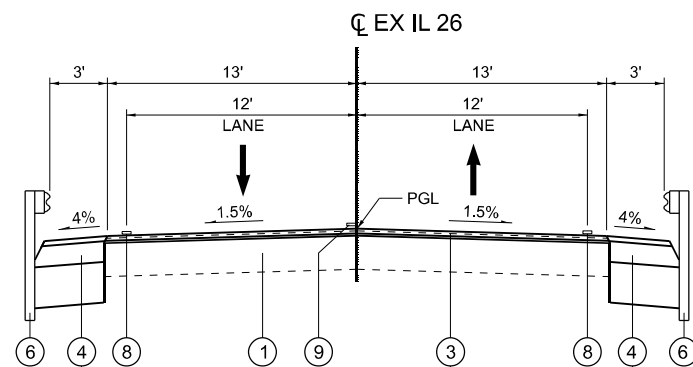
LEFT SHOULDER WITH CURB

STA 633+28.80 TO STA 633+60.08
 STA 634+90.95 TO STA 635+20.95



EXISTING TYPICAL SECTION

STA 630+94.00 TO STA 637+45.00
 (SEE WEARING SURFACE PLAN FOR STRUCTURE WORK)
 (LOOKING SOUTH)
 STA EQ 635+22.00 (BK) = STA 635+27.70 (AH)



PROPOSED TYPICAL SECTION

STA 630+94.00 TO STA 637+45.00
 (SEE WEARING SURFACE PLAN FOR STRUCTURE WORK)
 (LOOKING SOUTH)
 STA EQ 635+22.00 (BK) = STA 635+27.70 (AH)

STA 631+12.00 TO STA 633+60.08
 STA 634+90.95 TO STA 637+45.00
 SEE "LEFT SHOULDER WITH CURB" DETAIL

STA 630+94.00 TO STA 633+74.02
 STA 635+05.92 TO STA 637+45.00
 SEE "RIGHT SHOULDER WITH CURB" DETAIL

LEGEND

- ① EXISTING PAVEMENT
- ② EXISTING SHOULDER
- ③ HOT-MIX ASPHALT SURFACE REMOVAL, 1½" BITUMINOUS MATERIALS (TACK COAT)
(1½") HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50
(1½") HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70
- ④ EXCAVATING AND GRADING EXISTING SHOULDER BITUMINOUS MATERIALS (TACK COAT)
AGGREGATE SUBGRADE IMPROVEMENT 12"
HOT-MIX ASPHALT SHOULDERS, 6½"
(1½") HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70
- ⑤ EXISTING GUARDRAIL
- ⑥ PROPOSED GUARDRAIL
- ⑦ EXISTING PAVEMENT MARKING
- ⑧ PAINT PAVEMENT MARKING - LINE 4" (SOLID)
- ⑨ PAINT PAVEMENT MARKING - LINE 4" (SKIP-DASH)
- ⑩ EXISTING CURB

ROADWAY APPLICATION RATES

TACK COAT - ON MILLED SURFACE =	0.05 LBS/SQ FT
TACK COAT - BETWEEN LIFTS =	0.025 LBS/SQ FT
HOT-MIX ASPHALT ITEMS =	112 LBS/SQ YD/IN
AGGREGATE ITEMS =	2.05 TON/CU YD

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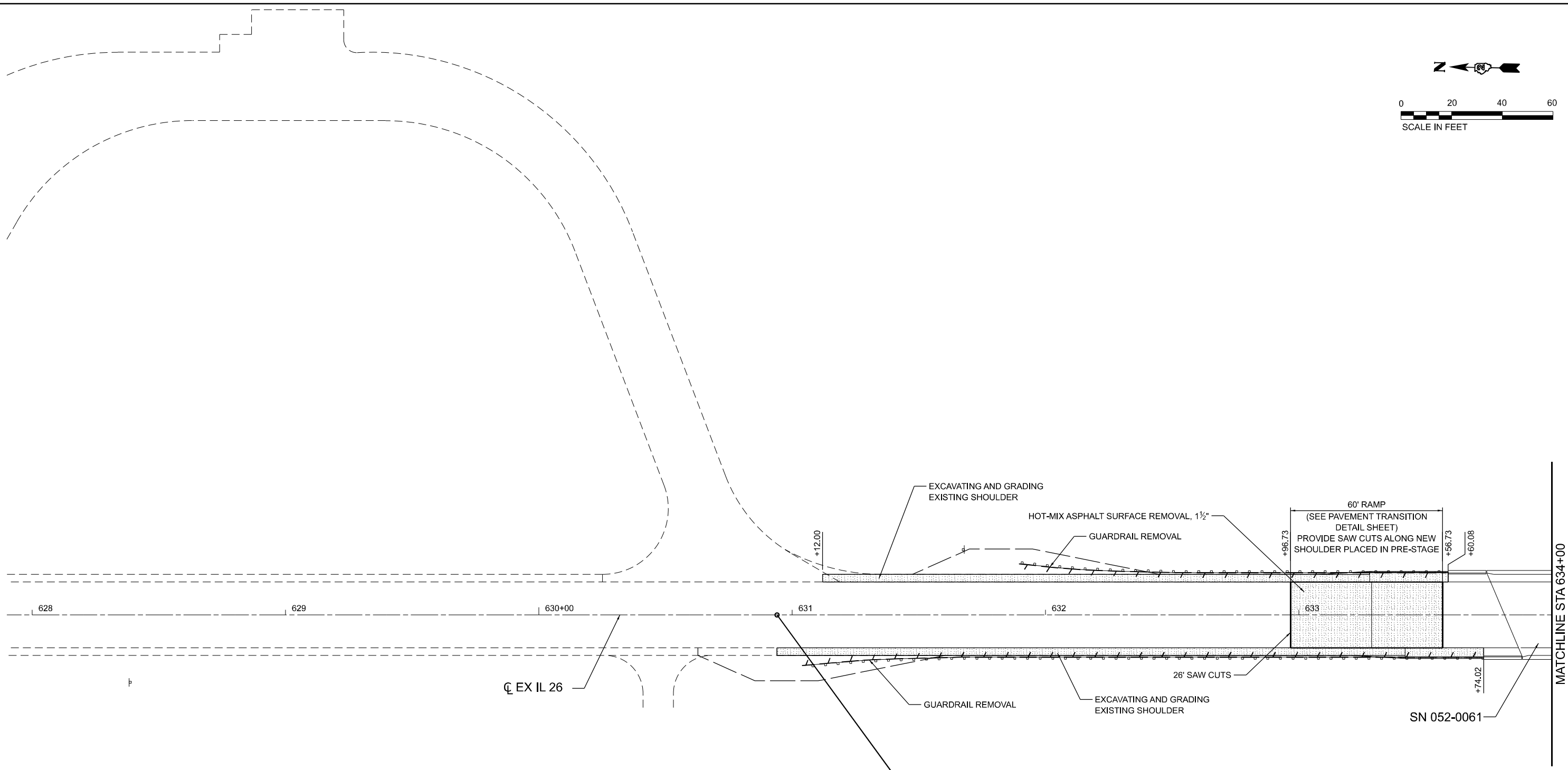
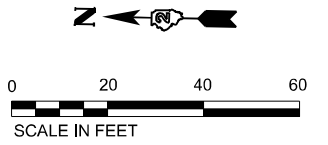
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
 IL 26**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(102 BR-4)BDR	LEE	48	9
CONTRACT NO. 64S30				
ILLINOIS FED. AID PROJECT				



BEGIN IMPROVEMENT
STA 630+94.00

MATCHLINE STA 634+00

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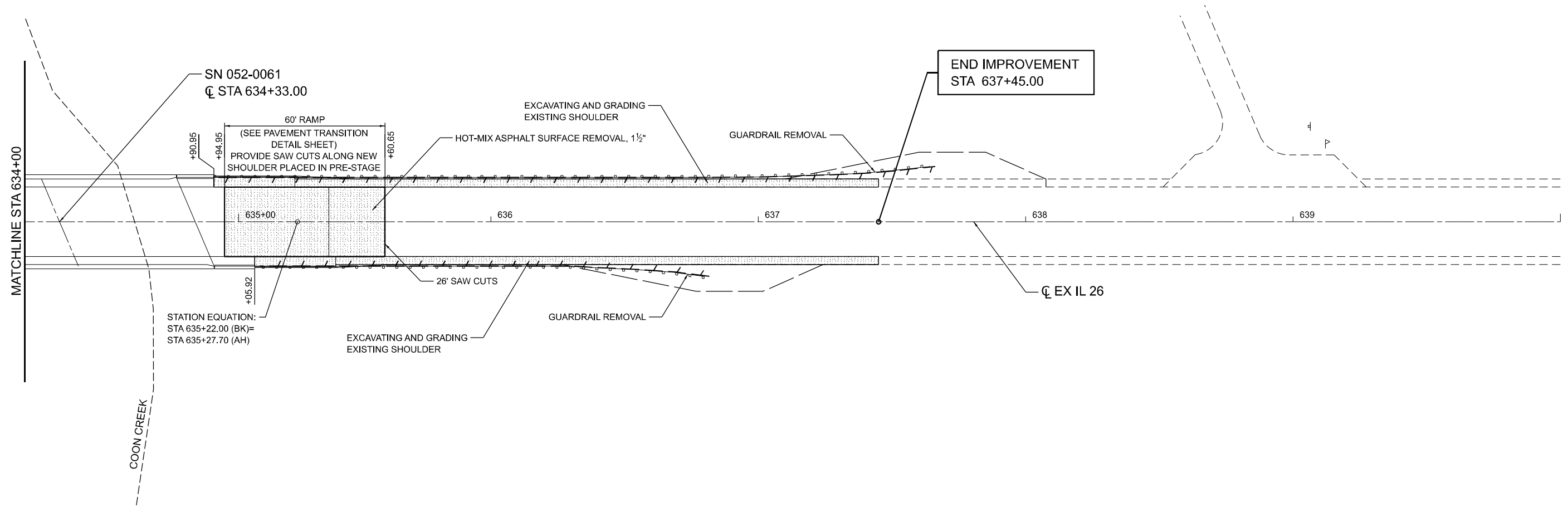
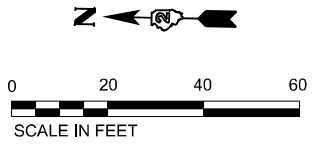
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PLOT DATE = 1/29/2024		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLANS
IL 26**

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. 628+00.00 TO STA. 634+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(102 BR-4)BDR	LEE	48	10
CONTRACT NO. 64S30				
ILLINOIS FED. AID PROJECT				



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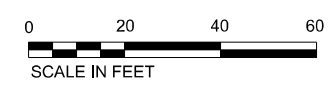
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

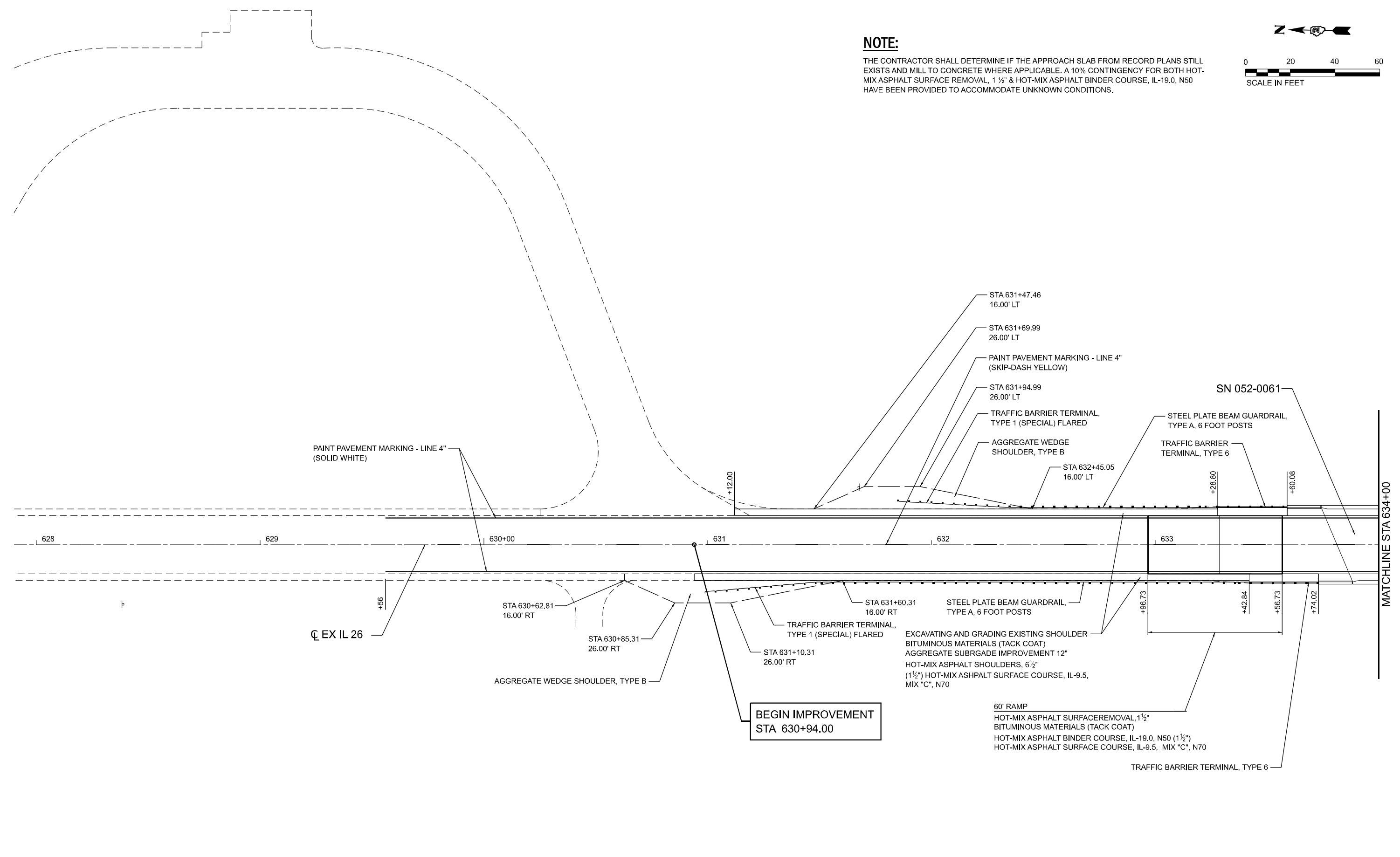
REMOVAL PLANS			
IL 26			
SCALE: 1" = 20'	SHEET 2 OF 2 SHEETS	STA. 634+00.00	TO STA. 640+00.00

F.A.P. RTE. 316	SECTION (102 BR-4)BDR	COUNTY LEE	TOTAL SHEETS 48	SHEET NO. 11
CONTRACT NO. 64S30				
ILLINOIS FED. AID PROJECT				



NOTE:

THE CONTRACTOR SHALL DETERMINE IF THE APPROACH SLAB FROM RECORD PLANS STILL EXISTS AND MILL TO CONCRETE WHERE APPLICABLE. A 10% CONTINGENCY FOR BOTH HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" & HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 HAVE BEEN PROVIDED TO ACCOMMODATE UNKNOWN CONDITIONS.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLANS
IL 26**

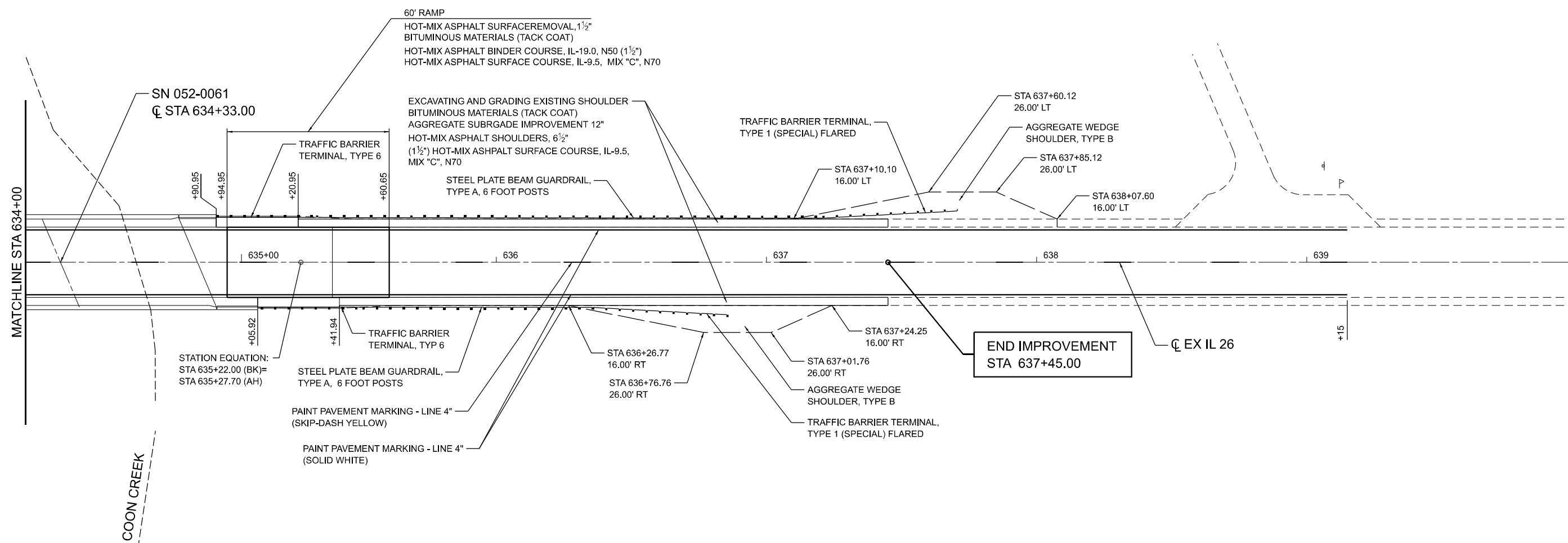
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316	(102 BR-4)BDR	LEE	48	12
CONTRACT NO. 64S30				
ILLINOIS FED. AID PROJECT				



NOTE:

THE CONTRACTOR SHALL DETERMINE IF THE APPROACH SLAB FROM RECORD PLANS STILL EXISTS AND MILL TO CONCRETE WHERE APPLICABLE. A 10% CONTINGENCY FOR BOTH HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" & HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 HAVE BEEN PROVIDED TO ACCOMMODATE UNKNOWN CONDITIONS.



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CHECKED -	SMK
DATE -	11/01/2023

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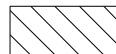


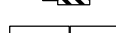






**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

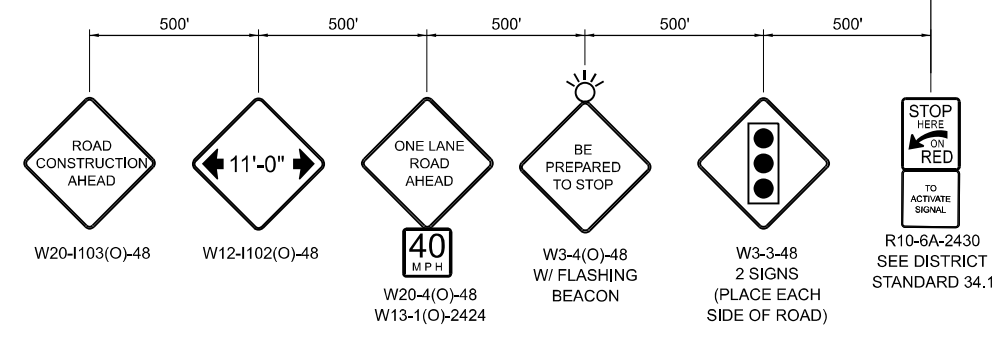
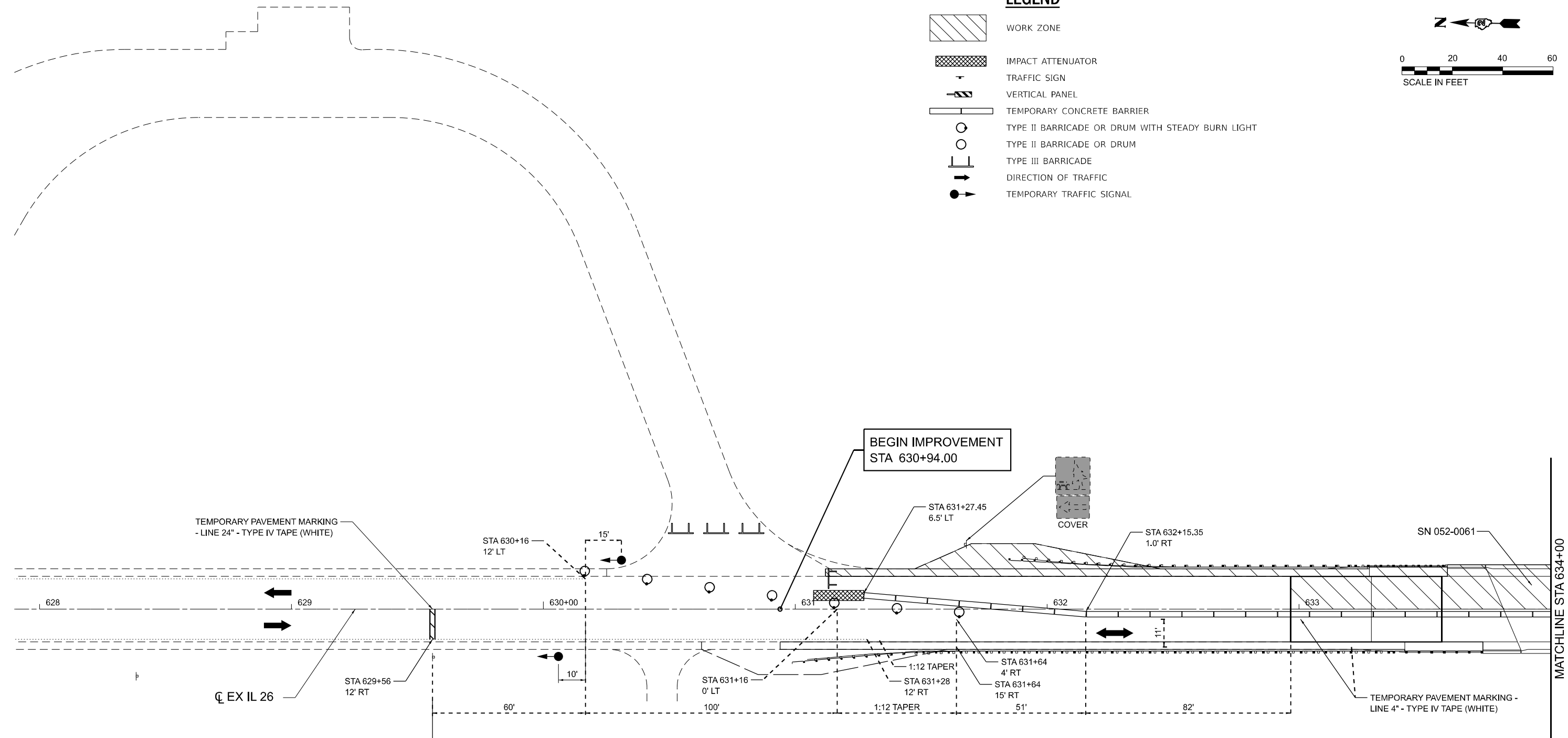
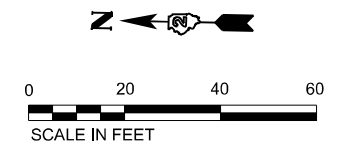
**ROADWAY PLANS
IL 26**

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. 634+00.00 TO STA. 640+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(102 BR-4)BDR	LEE	48	13
CONTRACT NO. 64S30				
ILLINOIS FED. AID PROJECT				

LEGEND

-  WORK ZONE
-  IMPACT ATTENUATOR
-  TRAFFIC SIGN
-  VERTICAL PANEL
-  TEMPORARY CONCRETE BARRIER
-  TYPE II BARRICADE OR DRUM WITH STEADY BURN LIGHT
-  TYPE II BARRICADE OR DRUM
-  TYPE III BARRICADE
-  DIRECTION OF TRAFFIC
-  TEMPORARY TRAFFIC SIGNAL



NOTE:
TEMPORARY CONCRETE BARRIER STATION OFFSETS ARE TO CONSTRUCTION SIDE OF BARRIER WALL. SEE STANDARDS 701321 AND 704001 FOR DETAILS NOT SHOWN.

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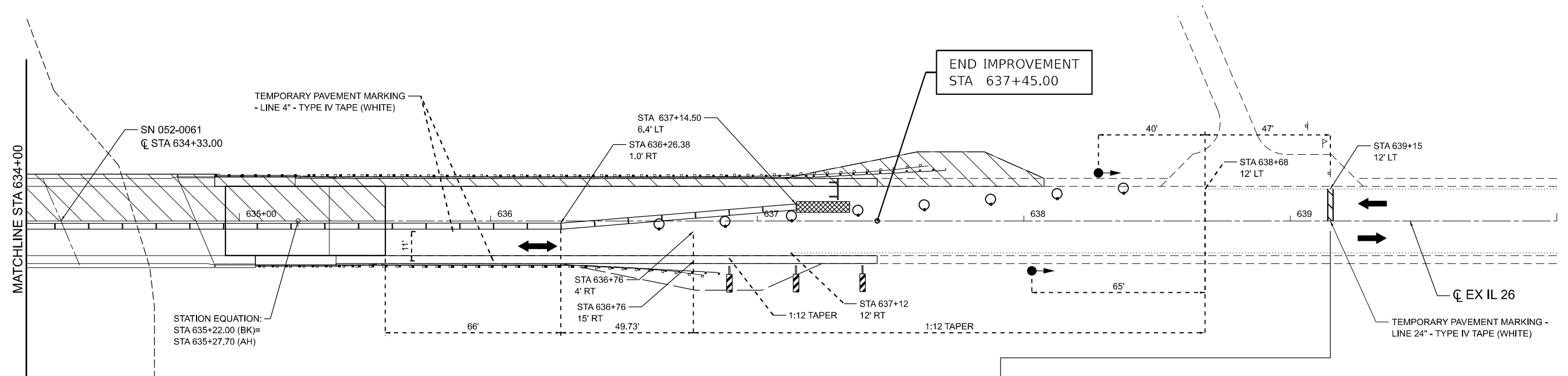
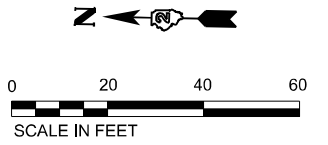
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTAINANCE OF TRAFFIC - STAGE II PLANS
IL 26**

SCALE: 1" = 20' SHEET 4 OF 5 SHEETS STA. 628+00.00 TO STA. 634+00.00

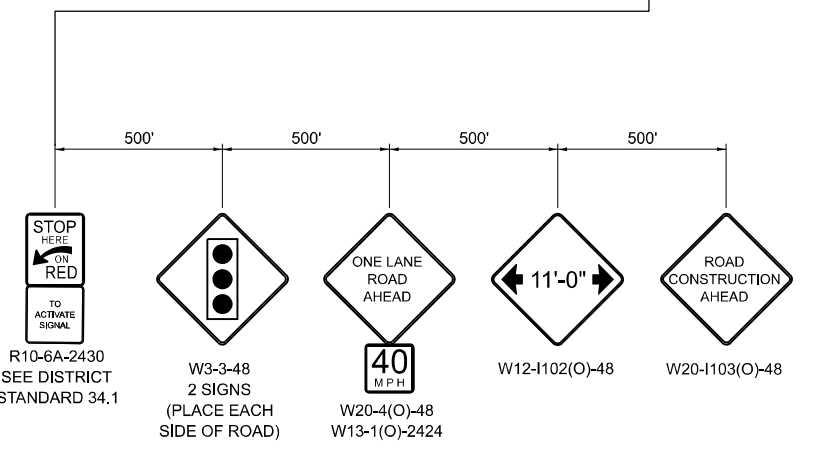
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316	(102 BR-4)BDR	LEE	48	17
CONTRACT NO. 64S30				
ILLINOIS FED. AID PROJECT				



NOTE:
 TEMPORARY CONCRETE BARRIER STATION OFFSETS ARE TO CONSTRUCTION SIDE OF BARRIER WALL. SEE STANDARDS 701321 AND 704001 FOR DETAILS NOT SHOWN. TEMPORARY CONCRETE BARRIER CONTROL IS TO CENTER OF WALL.

LEGEND

- WORK ZONE
- IMPACT ATTENUATOR
- TRAFFIC SIGN
- VERTICAL PANEL
- TEMPORARY CONCRETE BARRIER
- TYPE II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- TYPE II BARRICADE OR DRUM
- TYPE III BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY TRAFFIC SIGNAL



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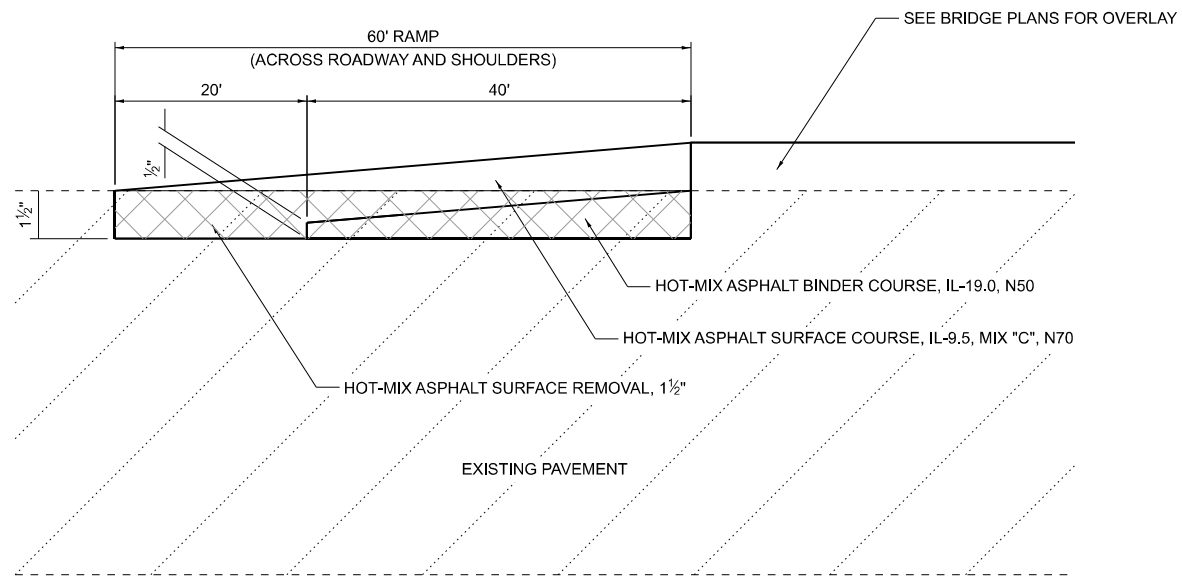
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTAINANCE OF TRAFFIC - STAGE II PLANS
 IL 26**

SCALE: 1" = 20' SHEET 5 OF 5 SHEETS STA. 634+00.00 TO STA. 640+00.00

F.A.P. RTE. 316	SECTION (102 BR-4)BDR	COUNTY LEE	TOTAL SHEETS 48	SHEET NO. 18
CONTRACT NO. 64S30			ILLINOIS FED. AID PROJECT	



PAVEMENT TRANSITION DETAIL

STA 632+96.73 TO STA 633+56.73
 STA 634+94.95 TO STA 635+60.65
 STA EQ 635+22.00 (BK) = STA 635+27.70 (AH)

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT TRANSITION DETAIL

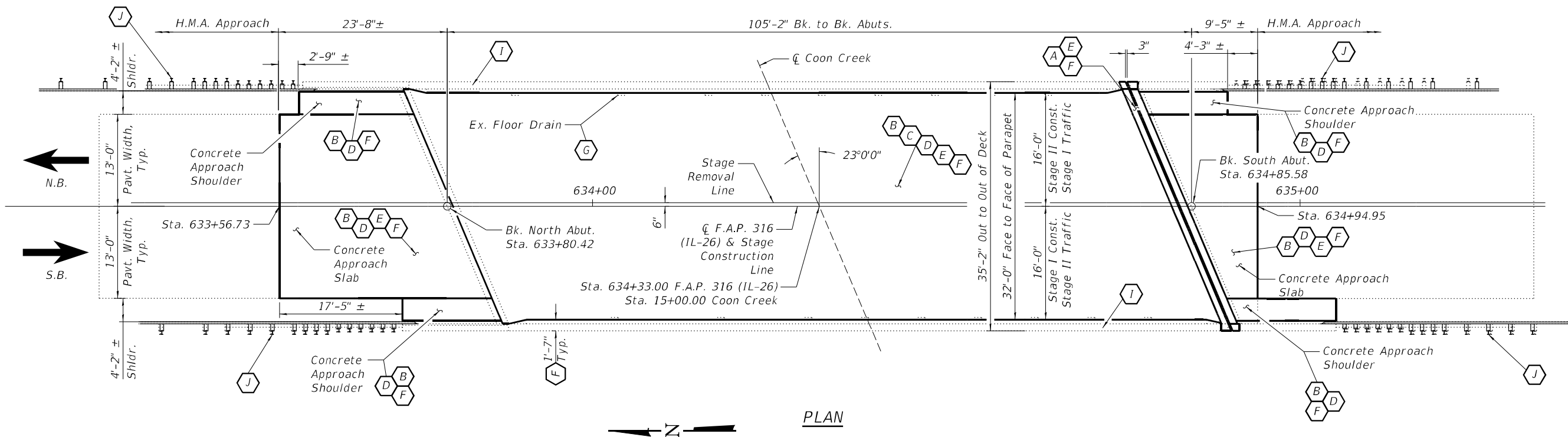
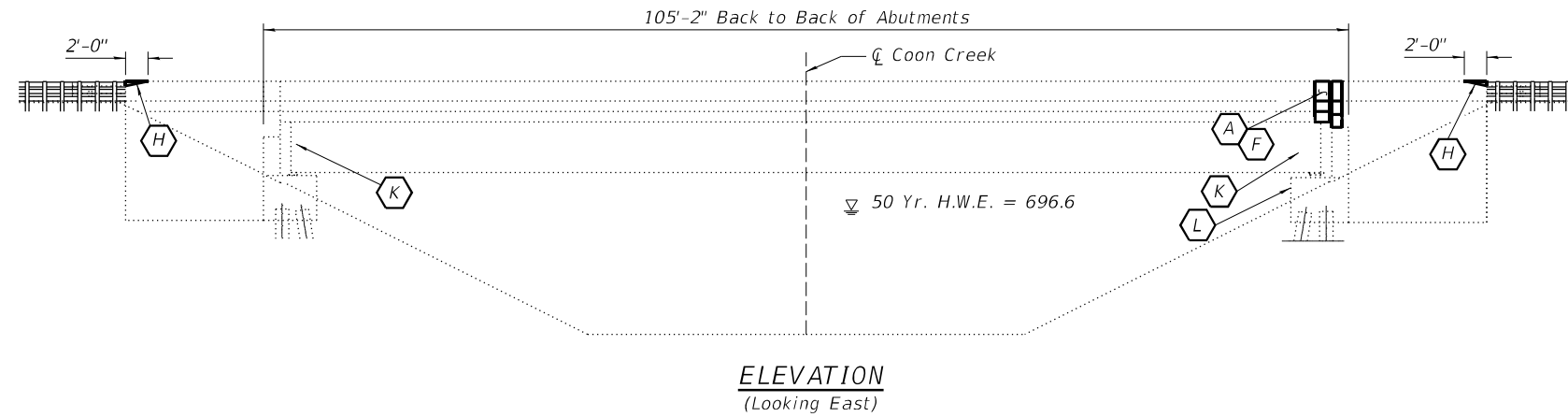
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(102 BR-4)BDR	LEE	48	19
CONTRACT NO. 64S30				
ILLINOIS FED. AID PROJECT				

Existing Structure 052-0061, originally built in 1981 to carry two lanes of traffic (one lane in each direction) over Coon Creek, is a single span precast, prestressed concrete I-beam structure with a reinforced concrete deck. The back-to-back length of the bridge is 105'-2" and the out-to-out width of the bridge is 35'-2". The proposed scope of work consists of deck scarification, the placement of a latex concrete overlay, joint replacement, and approach pavement patching at each approach. Traffic shall be maintained during the rehabilitation of both structures utilizing stage construction and one-way, signalized traffic.

BRIDGE SCOPE OF WORK

- (A) - Remove Existing Expansion Joint at South Abutment and Install Preformed Joint Strip Seal (See Sheets 8-10)
- (B) - Scarify bridge deck and concrete approaches $\frac{3}{4}$ ", as shown in the plans (See Sheet 5)
- (C) - Complete full depth deck repair, where shown (See Sheet 6)
- (D) - Place $2\frac{1}{4}$ " latex concrete overlay on bridge deck and approach slabs (See Sheet 5)
- (E) - Complete Bridge Deck Grooving to bridge deck and approach slabs where shown (See Sheet 5)
- (F) - Apply Protective Coat to the parapets and new overlays
- (G) - Clean existing 4"x12" floor drains
- (H) - Modify existing wingwall parapet ends (See Sheet 12)
- (I) - Complete formed concrete repairs to parapets where shown (See Sheet 6)
- (J) - Replace existing guardrails with Type 6 guardrail (See Roadway Sheets)
- (K) - Complete Precast Prestressed Concrete I-Beam repairs (See Sheet 7)
- (L) - Complete formed concrete repairs and epoxy crack sealing to abutments where shown (See Sheet 11)



DESIGN STRESSES

FIELD UNITS (NEW)

$f'_c = 4,000$ psi
 $f_y = 60,000$ psi (Reinforcement)

FIELD UNITS (EXISTING)

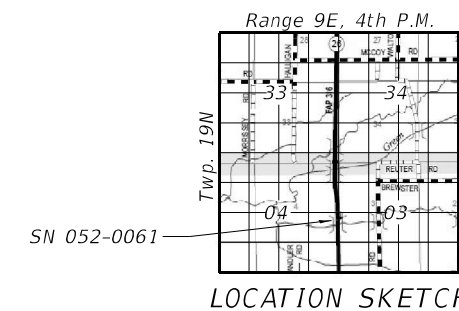
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, (Proposed)

LOADING HS 20-44

Existing and proposed loading



GENERAL PLAN & ELEVATION
F.A.P. 316 (IL 26) OVER COON CREEK
(102 BR-4)BDR
LEE COUNTY
STATION 634+33.00
STRUCTURE NO. 052-0061

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
F.A.P. 316 (IL 26 OVER COON CREEK - SN 052-0061)

SHEET 1 OF 19 SHEETS

F.A.P. RTE. 316	SECTION (102 BR-4)BDR	COUNTY LEE	TOTAL SHEETS 48	SHEET NO. 20
CONTRACT NO. 64S30			ILLINOIS FED. AID PROJECT JDCW(034)	

TOTAL BILL OF MATERIAL

INDEX OF SHEETS

- 1. General Plan and Elevation
- 2. General Data
- 3. Stage Construction Details
- 4. Temporary Concrete Barrier
- 5. Wearing Surface Details
- 6. Concrete Superstructure Details
- 7. Beam End Repair Details
- 8. Expansion Joint Concrete Removal Details
- 9. Expansion Joint Concrete Replacement Details
- 10. Strip Seal Joint Details
- 11. South Abutment Repair Details
- 12. Wingwall Modification Details
- 13. Bar Splicer Details
- 14.-19. Existing Plans

ITEM	UNIT	SN 052-0061		TOTAL
		SUPER	SUB	
Concrete Removal	CU YD	4.2		4.2
Concrete Superstructure	CU YD	4.9		4.9
Bridge Deck Grooving	SQ YD	447		447
* Protective Coat	SQ YD	514		514
Reinforcement Bars, Epoxy Coated	POUND	809		809
Bar Splicers	EACH	8		8
Preformed Joint Strip Seal	FOOT	42		42
Concrete Sealer	SQ FT		118	118
Epoxy Crack Injection	FOOT	20.5		20.5
Cleaning Bridge Scuppers And Downspouts	EACH	18		18
Acrylic Coating	SQ YD	32		32
Fiber Wrap	SQ FT	187		187
Bridge Deck Latex Concrete Overlay, 2 1/4 Inches	SQ YD	482		482
Bridge Deck Scarification 3/4"	SQ YD	482		482
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	SQ FT		118	118
Deck Slab Repair (Full Depth, Type I)	SQ YD	9		9
Deck Slab Repair (Full Depth, Type Ii)	SQ YD	5		5
Drill And Grout Bars	EACH	32		32
Precast Prestressed Concrete I-Beam Repair	SQ FT	70		70

* Protective Coat shall be applied to all new concrete superstructure and all new concrete overlays as specified in Article 503.19 of the Standard Specifications.

GENERAL NOTES

- 1. Plan dimensions and details are relative to the existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
- 2. Existing reinforcement bars extending into the removal rea shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced with approved bar splicer or anchorage system. Cost included with Concrete Removal.
- 3. Joint openings shall be adjusted according to article 520.04 of he Std. Specs. when the deck is poured at an ambient temperature other than 50°F.
- 4. Reinforcement bars designated (E) shall be epoxy coated.
- 5. Traffic will be maintained using stage construction.
- 6. The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beams.

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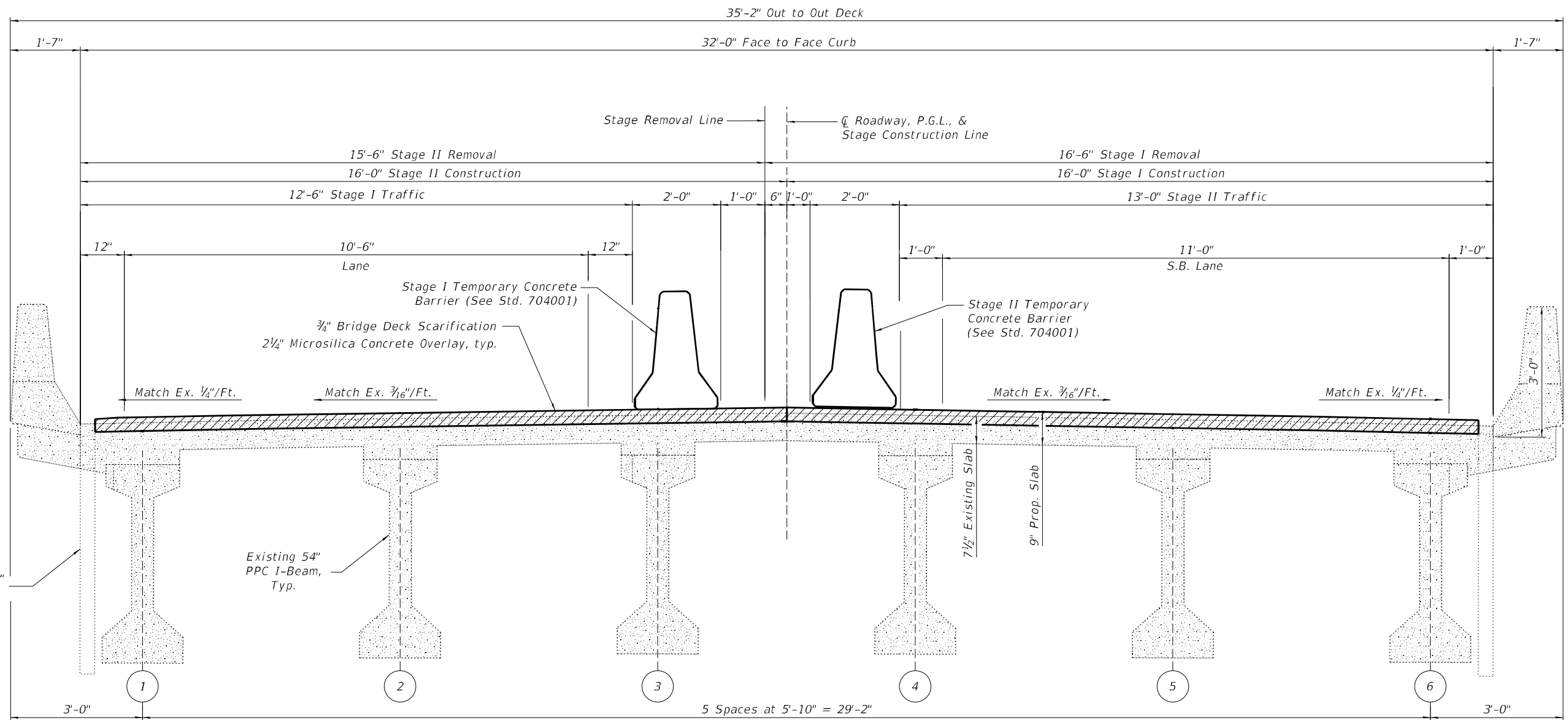
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
F.A.P. 316 (IL 26) OVER COON CREEK - SN 052-0061**

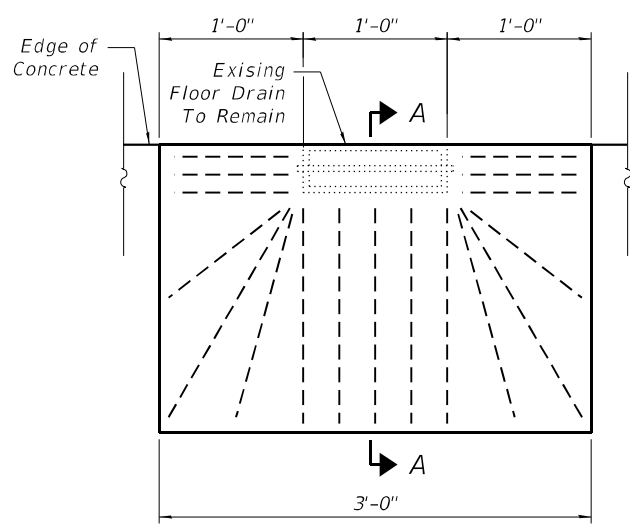
SHEET 2 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(102 BR-4)BDR	LEE	48	21
CONTRACT NO. 64S30				
		ILLINOIS	FED. AID PROJECT	JDCW(034)

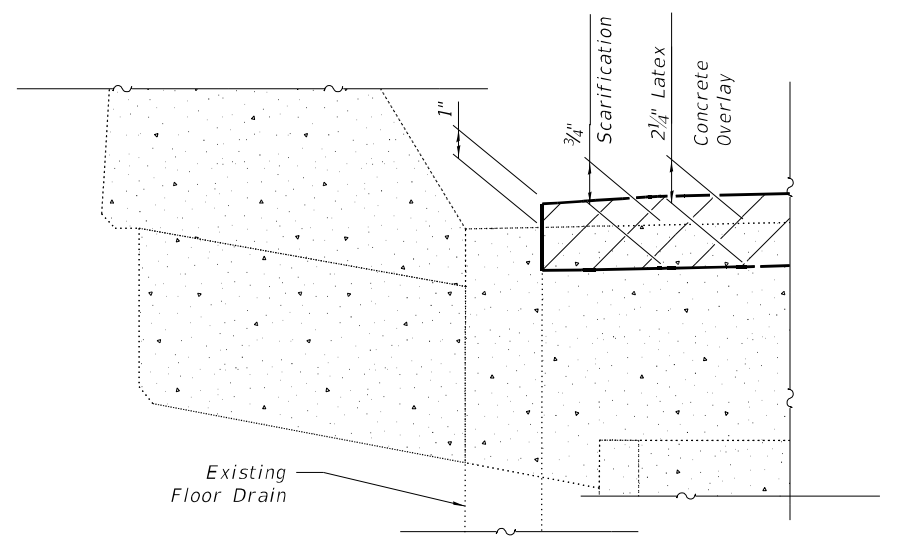
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CROSS SECTION
 (Looking South)



CONCRETE OVERLAY AT FLOOR DRAIN PLAN



SECTION A-A CONCRETE OVERLAY AT FLOOR DRAIN



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

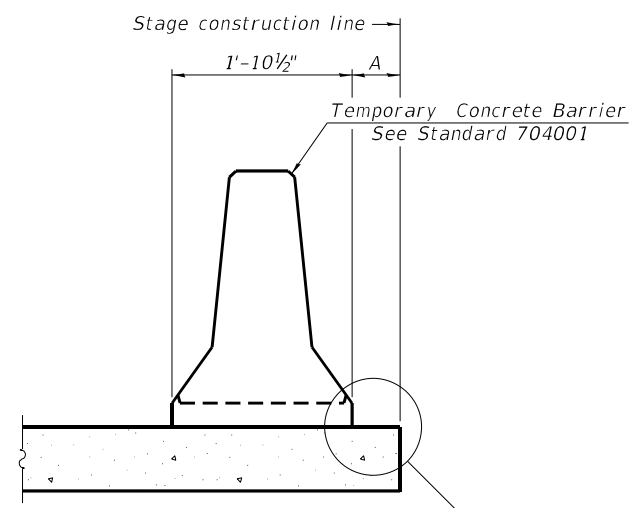
**STAGE CONSTRUCTION DETAILS
 F.A.P. 316 (IL 26) OVER COON CREEK - SN 052-0061**

SHEET 3 OF 19 SHEETS

F.A.P. RTE. 316	SECTION (102 BR-4)BDR	COUNTY LEE	TOTAL SHEETS 48	SHEET NO. 22
ILLINOIS FED. AID PROJECT JDCW(034)			CONTRACT NO. 64S30	

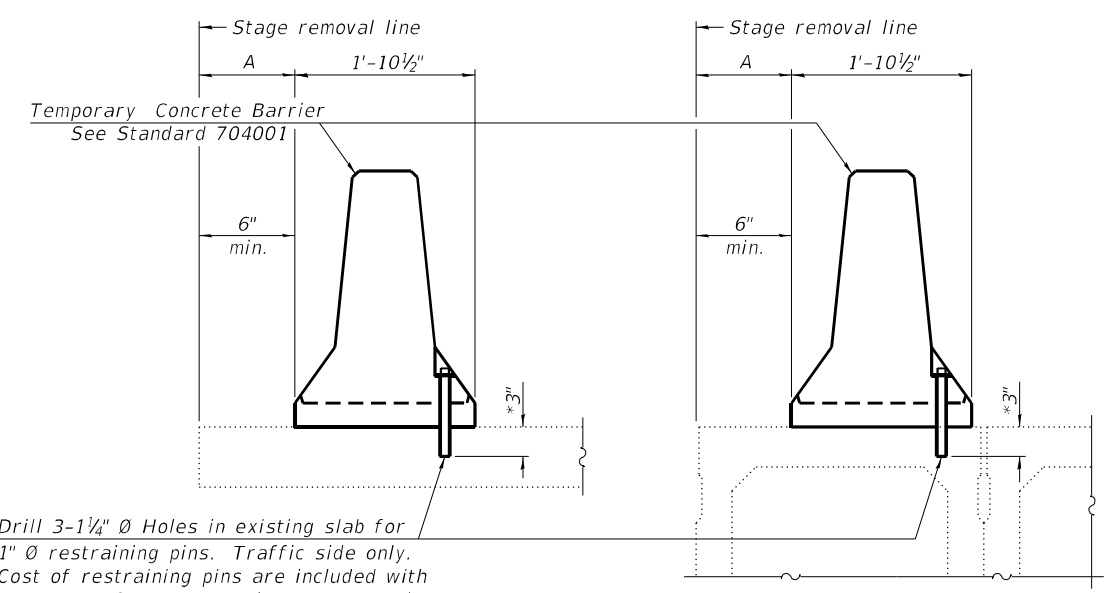
SA-3 OF SA-19

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

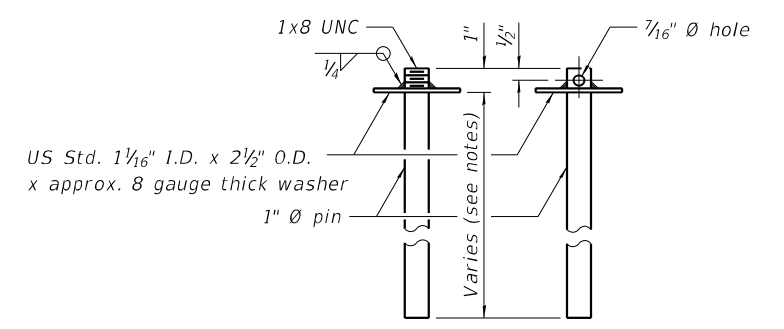
NEW SLAB OR NEW DECK BEAM



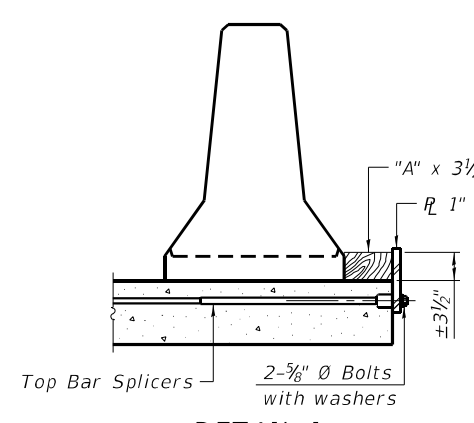
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB
EXISTING DECK BEAM

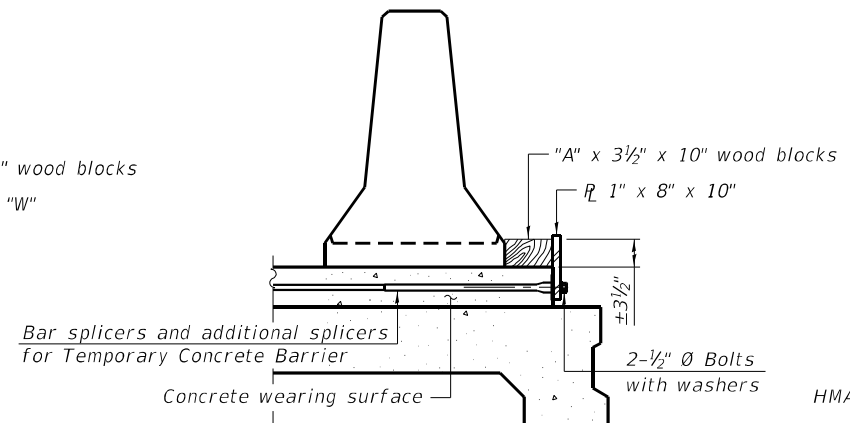
SECTIONS THRU SLAB OR DECK BEAM



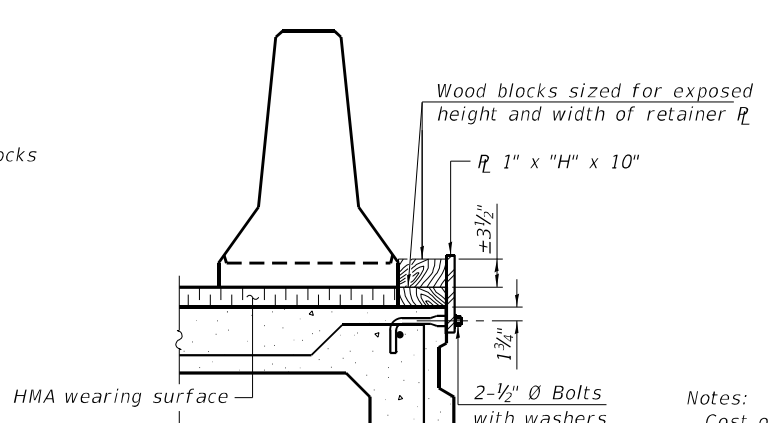
RESTRAINING PIN



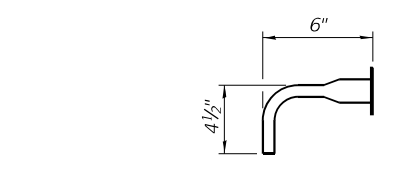
DETAIL I



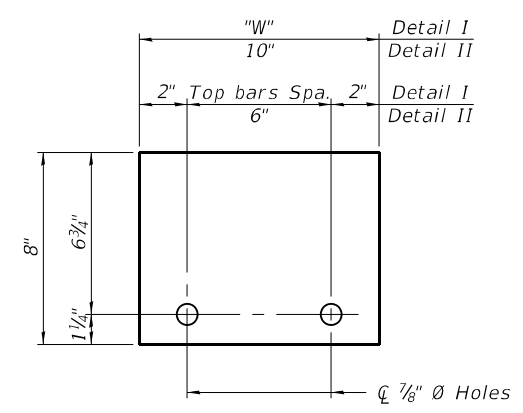
DETAIL II



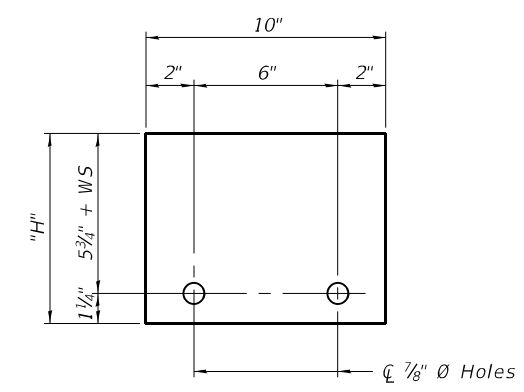
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.
Detail I - Installation for a new bridge deck or bridge slab.
Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021

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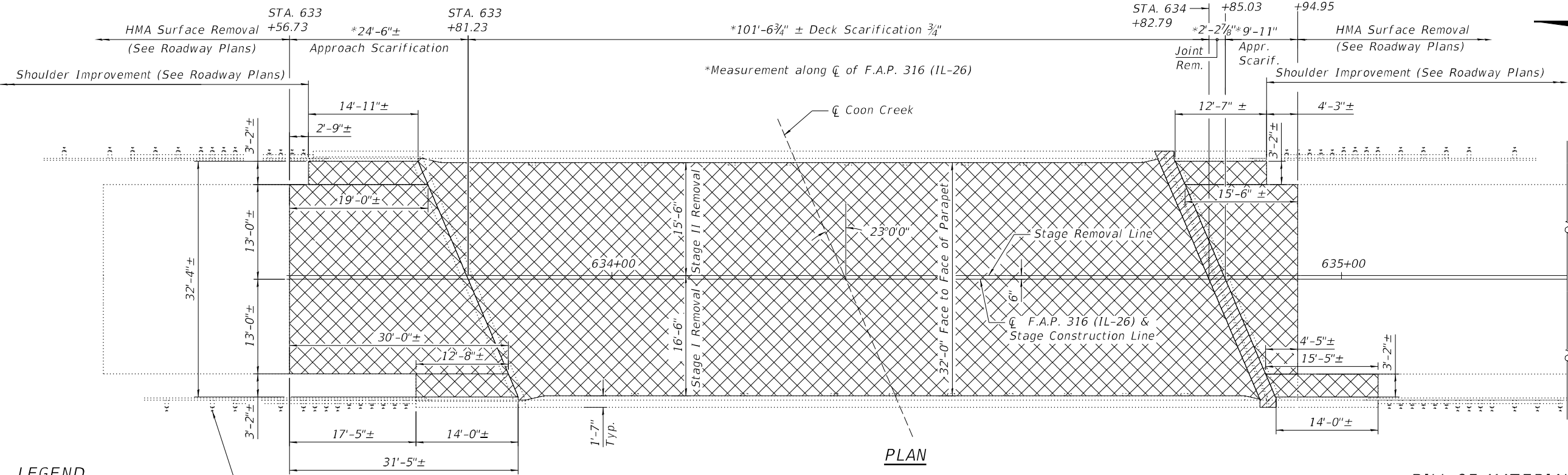
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
F.A.P. 316 (IL 26) OVER COON CREEK - SN 052-0061

SHEET 4 OF 19 SHEETS

F.A.P. RTE. 316	SECTION (102 BR-4)BDR	COUNTY LEE	TOTAL SHEETS 48	SHEET NO. 23
CONTRACT NO. 64S30			ILLINOIS FED. AID PROJECT JDCW(034)	

SA-4 OF SA-19



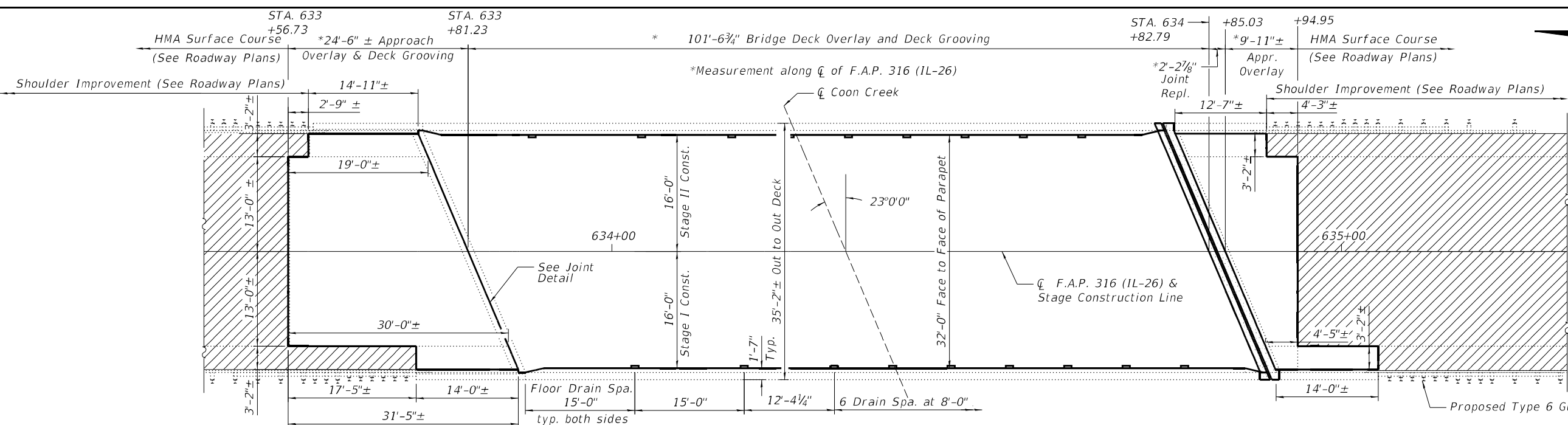
LEGEND

	Scarification 3/4"
	Joint Removal See Sheet 7 for Details

Remove Existing Traffic Barrier Terminals on Both Sides of Approach, Typ.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Deck Scarification 3/4"	Sq. Yd.	482



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Deck Latex Conc. Ovly. 2 1/4"	Sq. Yd.	482
Bridge Deck Grooving	Sq. Yd.	447
Protective Coat	Sq. Yd.	514
Cleaning Bridge Scuppers & Downspouts	Each	18

LEGEND

	HMA Surface Course For Roadway & Shoulder - See Roadway Sheets for Details
	2 1/4" Latex Concrete Overlay Bridge Deck Grooving
	Joint Replacement Limits See Sheets 8 thru 10 for Details

- NOTES**
- All floor drains must be protected during concrete scarification and concrete overlay placement.
 - Use of hand tools is required while working around floor drains.

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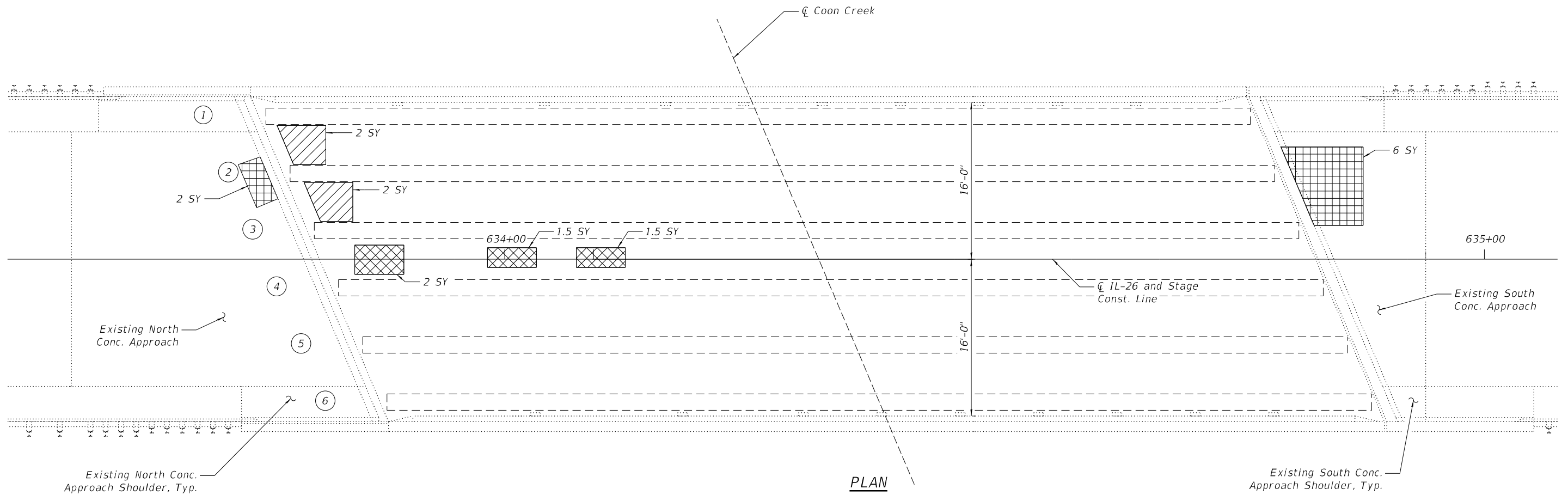
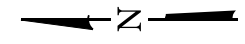
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEARING SURFACE DETAILS
F.A.P. 316 (IL 26) OVER COON CREEK - SN 052-0061**

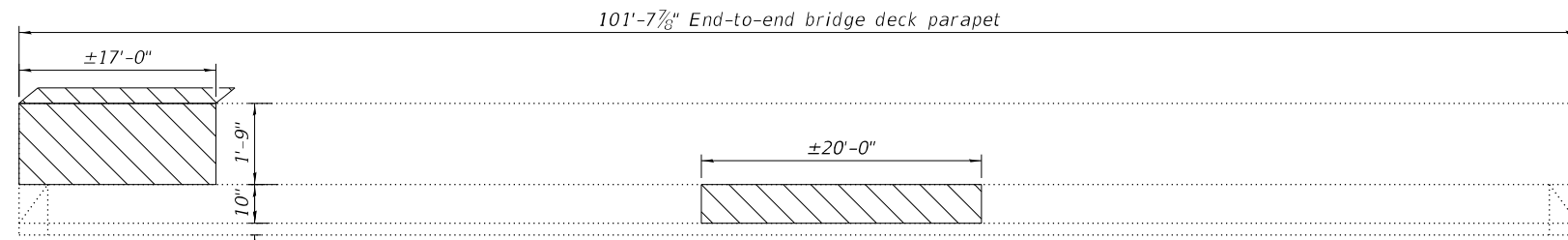
SHEET 5 OF 19 SHEETS

F.A.P. RTE. 316	SECTION (102 BR-4)BDR	COUNTY LEE	TOTAL SHEETS 48	SHEET NO. 24
CONTRACT NO. 64S30			ILLINOIS FED. AID PROJECT JDCW(034)	

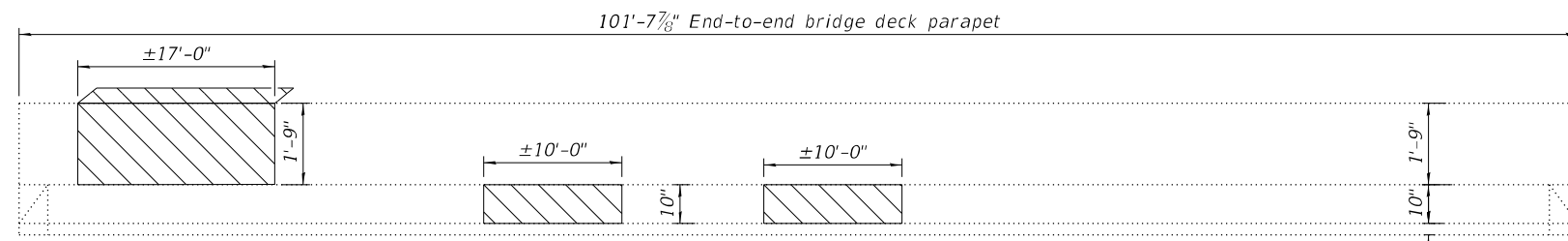
SA-5 OF SA-19



PLAN



ELEVATION - INSIDE FACE EAST PARAPET
(Looking East)



ELEVATION - INSIDE FACE WEST PARAPET
(Looking West)

LEGEND

- Deck Slab Repair (Partial - For Information Only)
- Deck Slab Repair (Full Depth, Type II)
- Approach Slab Repair (Partial Depth - For Information Only)
- Structural Repair of Concrete (Depth Equal to or Less Than 5")

NOTES

Quantities and area of deck repair are estimated for bidding purposes. Patch sizes shown represent conditions at the time plans were completed, but the actual sizes and locations of patching shall be determined by the Engineer after removal of the wearing surface, before patching begins. An Estimated 2% of the deck area has been included should Deck Slab Repair (Full Depth, Type I) be required after scarification. The Engineer shall show the actual locations of the deck repairs on AS-BUILT plans.

Areas of approach slab repair shown are estimated. The Engineer shall show actual locations of the repairs on AS-BUILT PLANS.

Approach Slab Repair (Partial Depth) depth may vary, with a maximum depth of 7 inches.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	94
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	9
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	5

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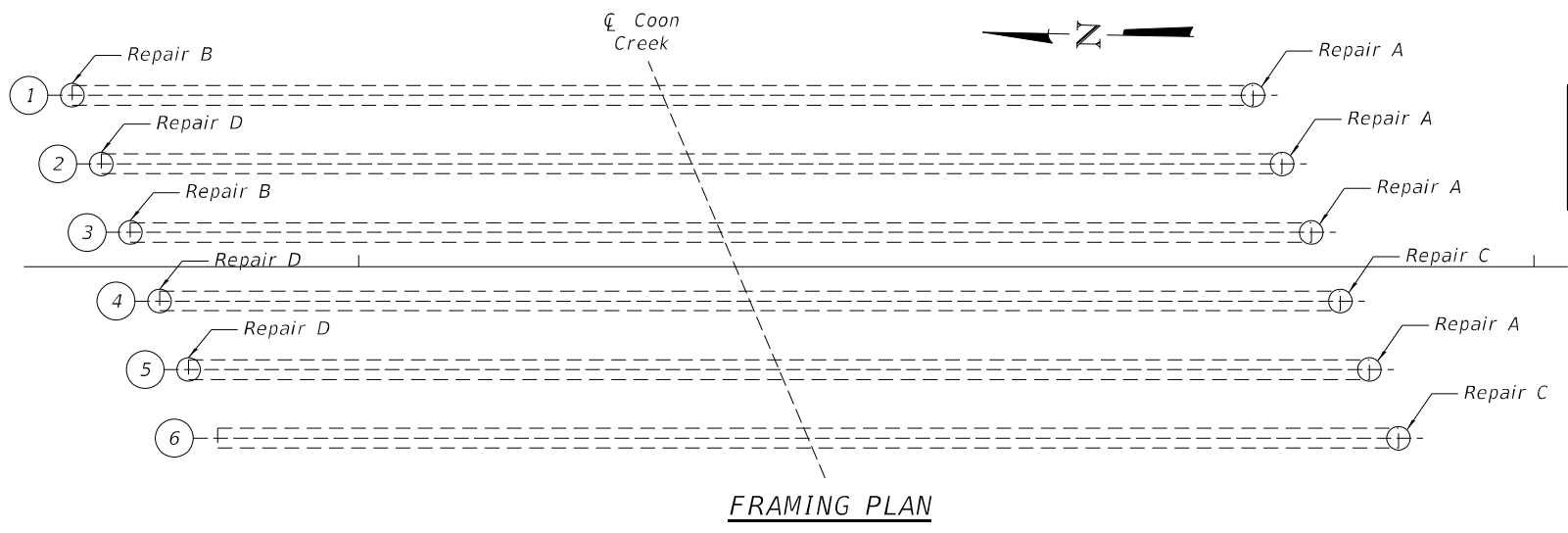


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE SUPERSTRUCTURE REPAIR DETAILS
F.A.P. 316 (IL 26) OVER COON CREEK - SN 052-0061

F.A.P. RTE. 316	SECTION (102 BR-4)BDR	COUNTY LEE	TOTAL SHEETS 48	SHEET NO. 25
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64S30 JDCW(034)	



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Acrylic Coating	Sq. Yd.	32
Fiber Wrap	Sq. Ft.	187
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	70

- LEGEND**
- Precast Prestressed Concrete I-Beam Repair
 - Horizontal Anchorage Strip
 - Vertical or Horizontal Fiber Wrap Panel, Typ.
- * Wrap horizontal anchorage strips around end of beam

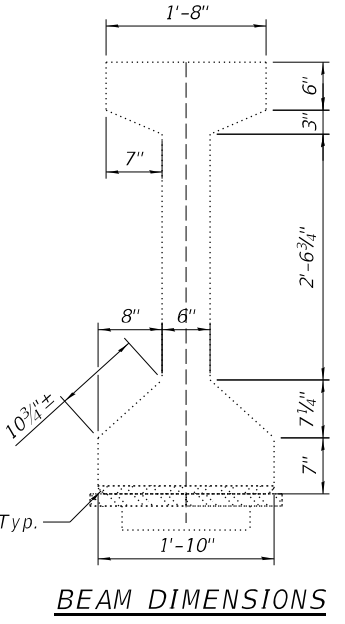
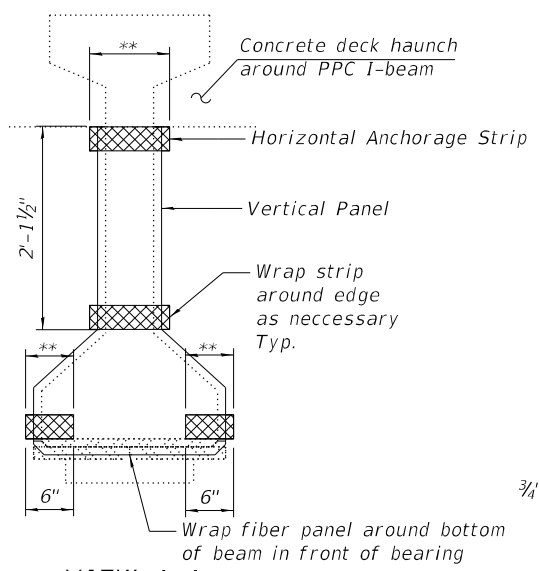
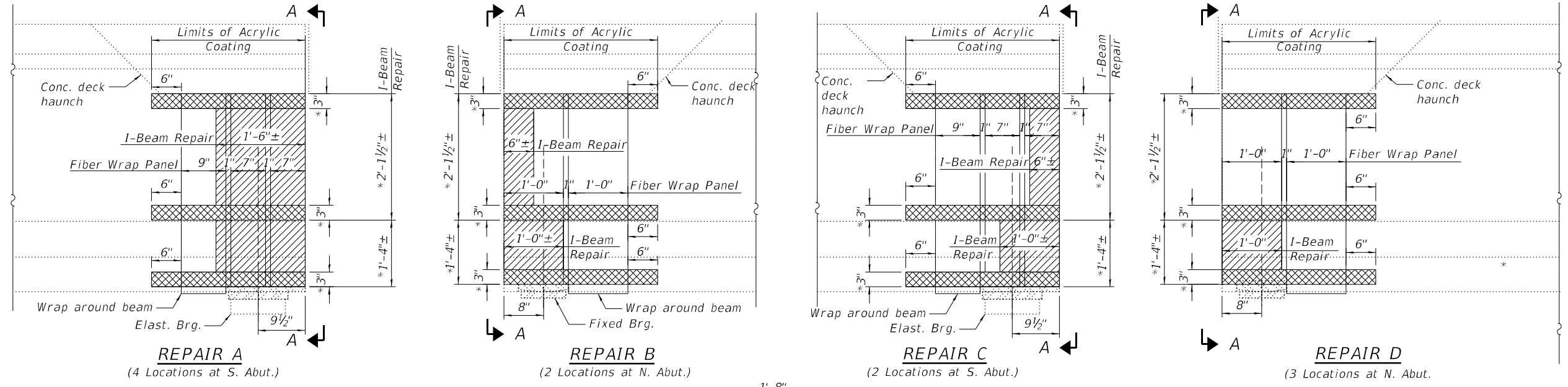
NOTES

Plan dimensions and details relative to existing plans are subject to normal 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 work, however, the Contractor will be paid for the quantity actually furnished at the unit bid price for the work.

The existing concrete surface shall be cleaned and prepared in accordance with the Special Provisions.

Acrylic Coating shall be placed over the fiber wrap repairs. Two coats shall be applied. See Special Provisions.

Vertical FRP panels may be trimmed to fit around diaphragms. The minimum width of the trimmed legs must be 3". The FRP panel may terminate at the base of the diaphragm if the minimum width cannot be met. The horizontal anchorage strips must wrap 6" onto the diaphragm face if the strip is broken due to the diaphragm location.



** Limits of Acrylic Coating

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

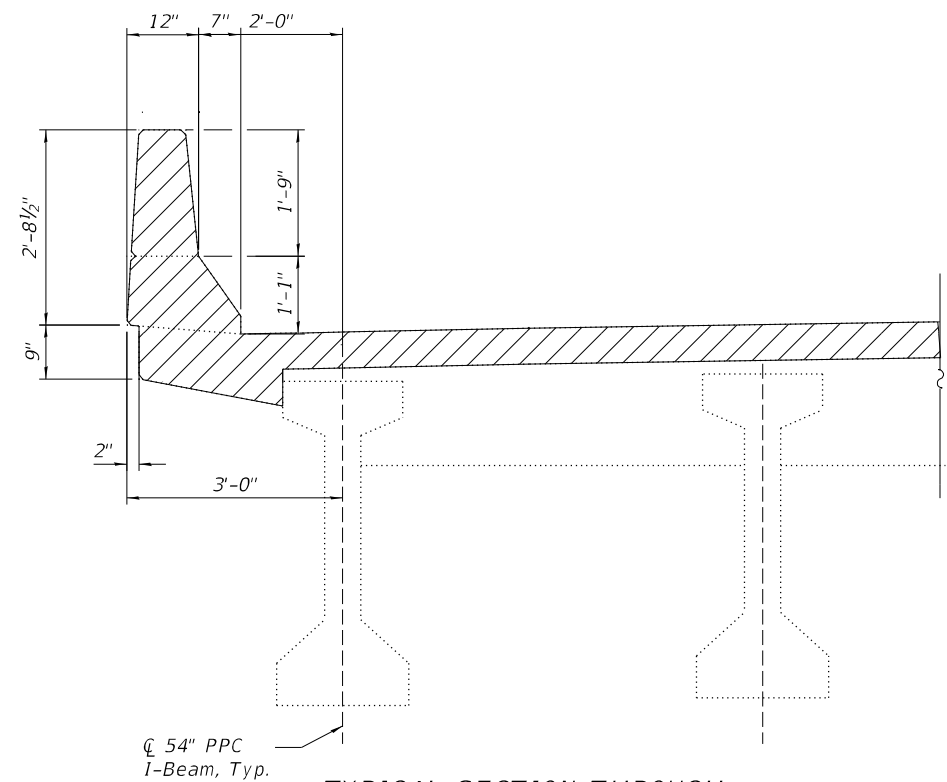
**BEAM END REPAIR DETAILS
F.A.P. 316 (IL 26) OVER COON CREEK - SN 052-0061**

SHEET 7 OF 19 SHEETS

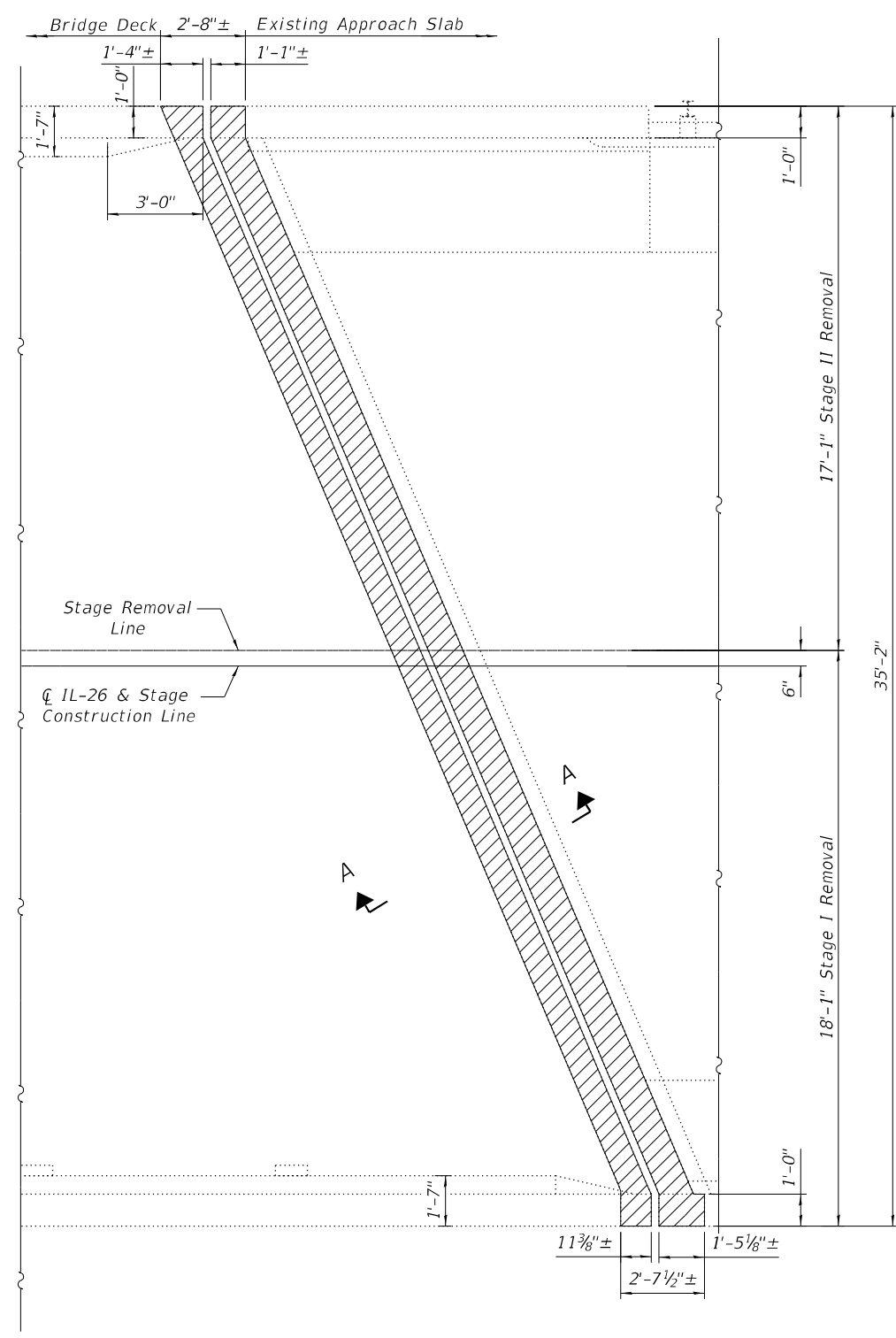
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 64S30 JDCW(034)	

SA-7 OF SA-19

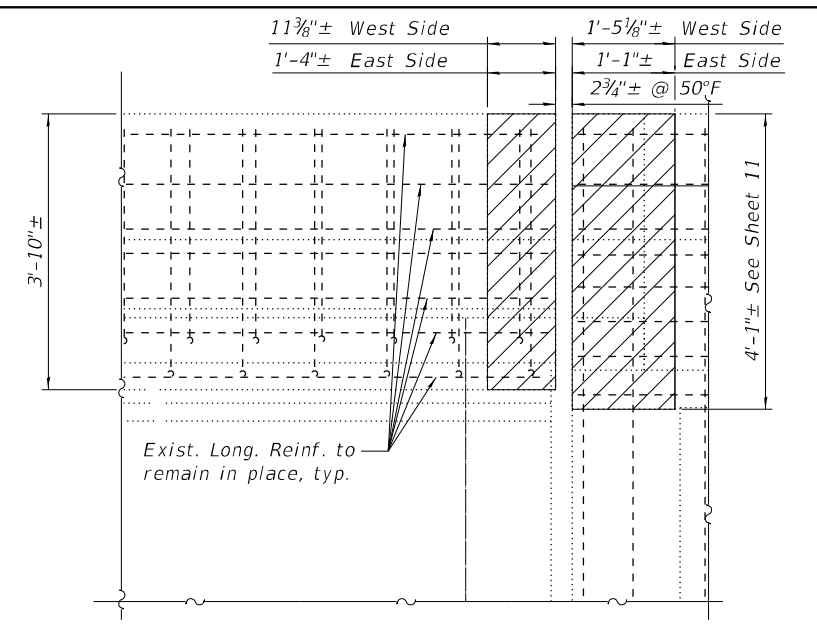
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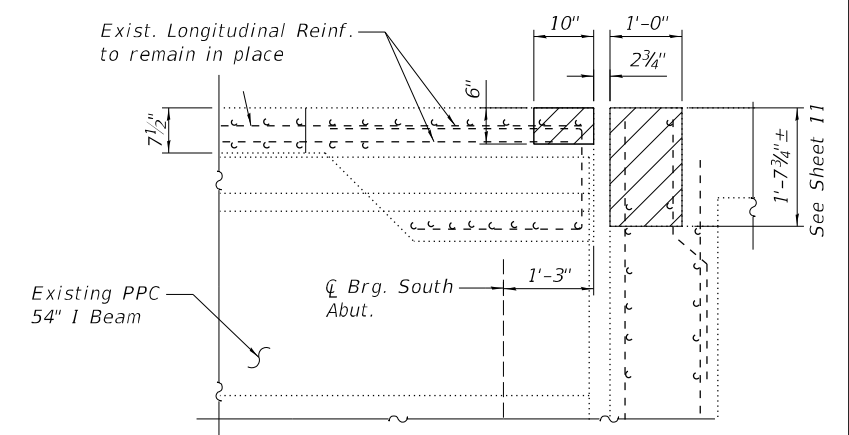
TYPICAL SECTION THROUGH PARAPET AT DECK JOINT REMOVAL



SOUTH ABUTMENT JOINT PLAN - REMOVAL



PARAPET ELEVATION AT JOINT



SECTION A-A

NOTES

Removal and Disposal of Existing Expansion Joint is included in the cost of CONCRETE REMOVAL.

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.

LEGEND

Concrete Removal

BILL OF MATERIAL

Pay Item	Unit	Quantity		Total
		Stage I	Stage II	
** Concrete Removal	Cu. Yd.	0.4	0.5	0.9

** Concrete Removal Quantity is for end of the Deck removal, including parapets. For hatchblock concrete removal, see Sheet 11.



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STATE OF ILLINOIS
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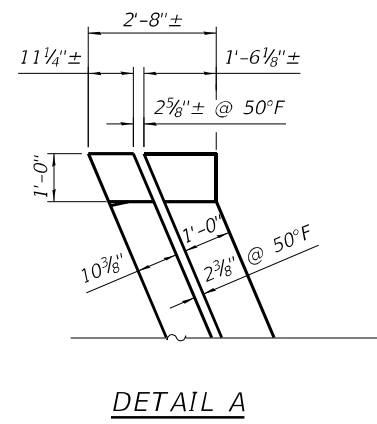
EXPANSION JOINT CONCRETE REMOVAL DETAILS
 F.A.P. 316 (IL 26) OVER COON CREEK - SN 052-0061

SHEET 8 OF 19 SHEETS

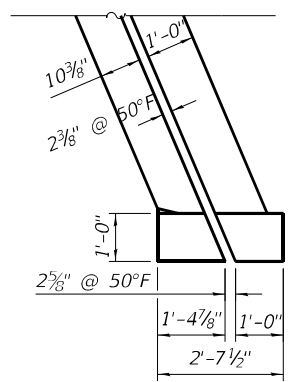
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SA-8 OF SA-19

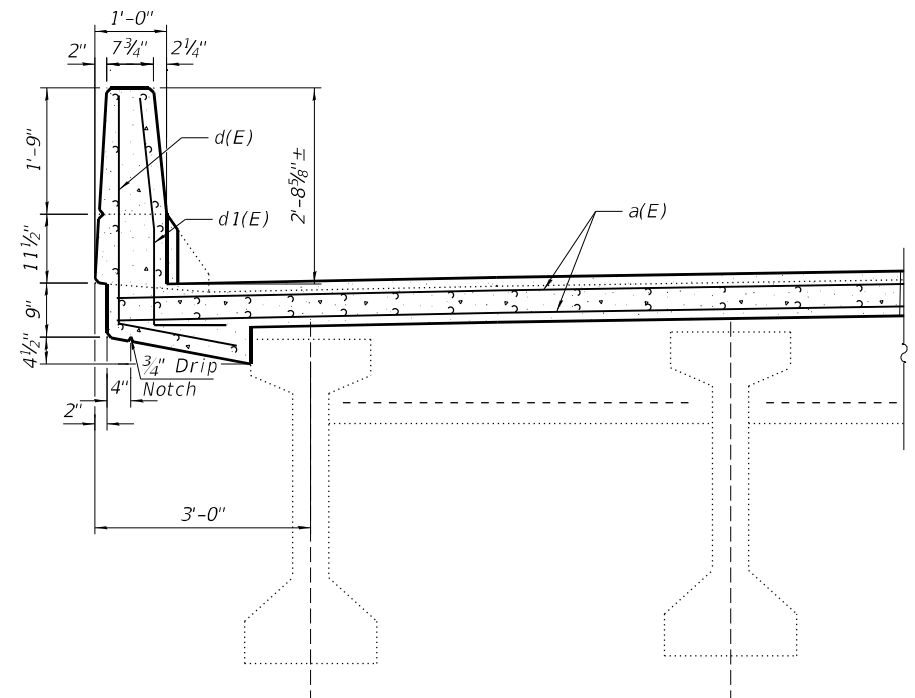
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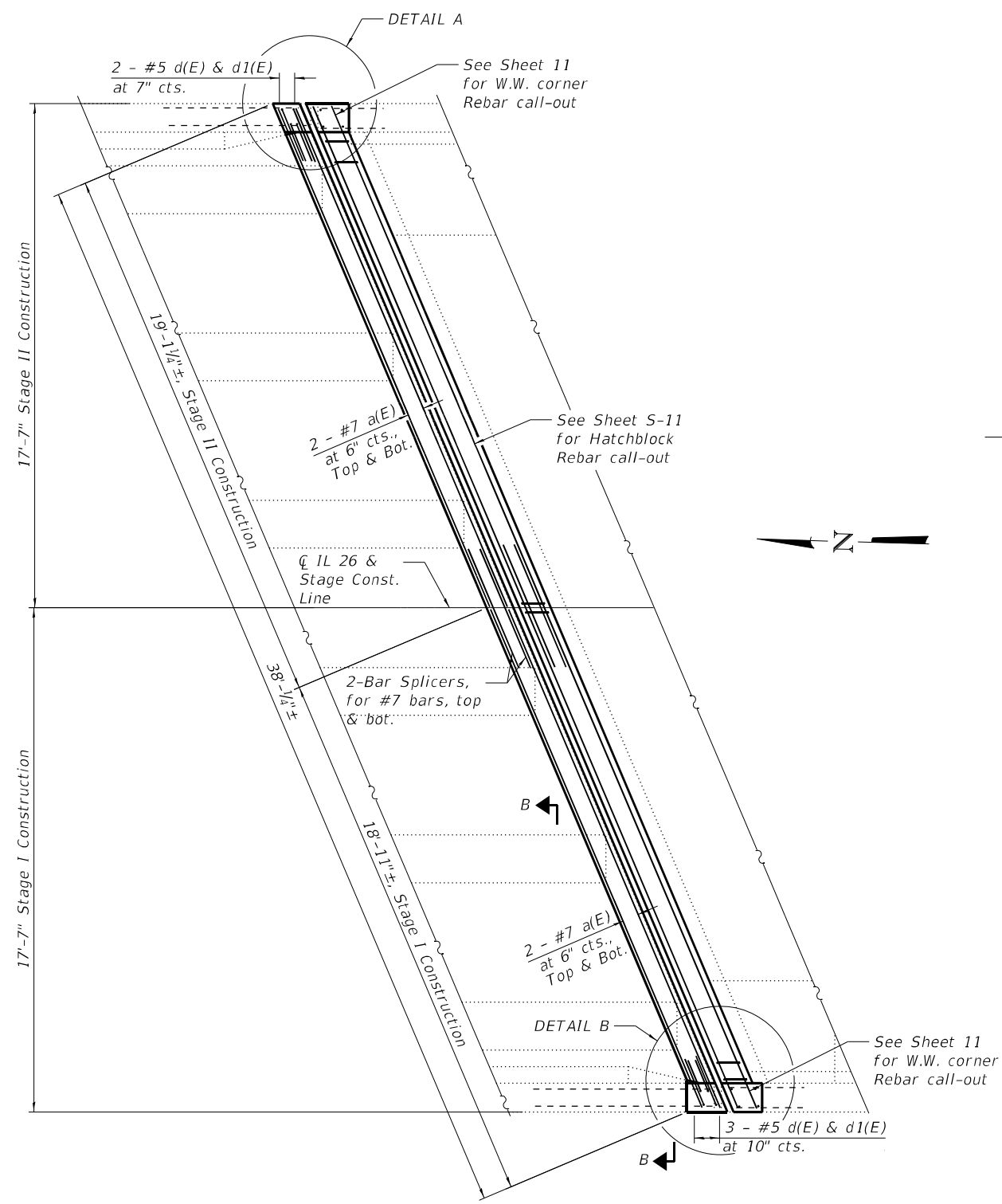
DETAIL A



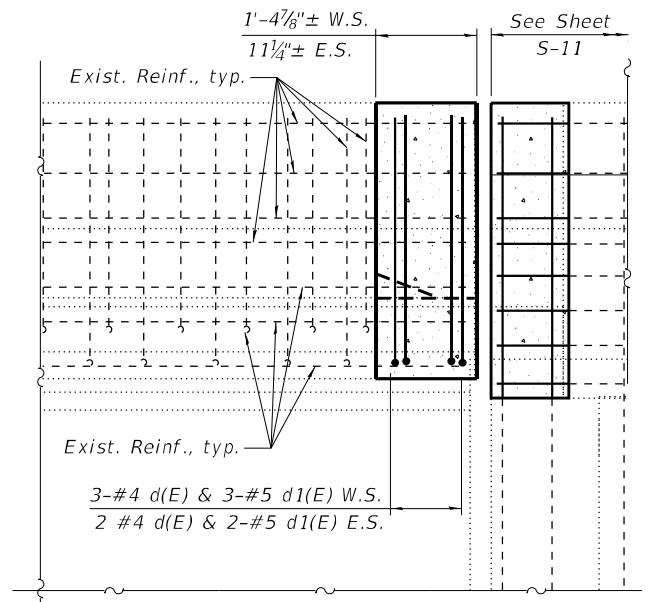
DETAIL B



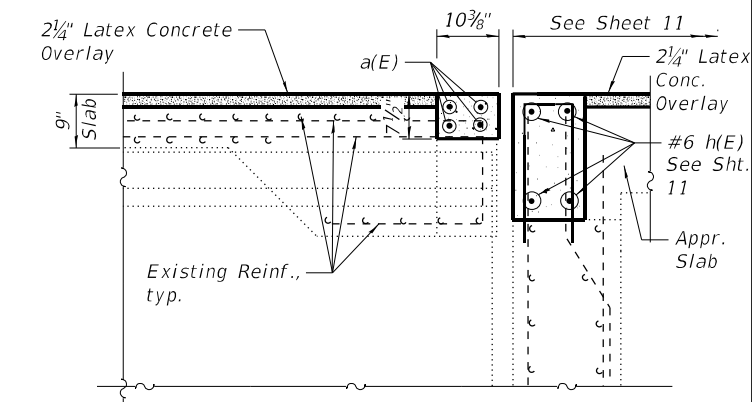
SECTION B-B



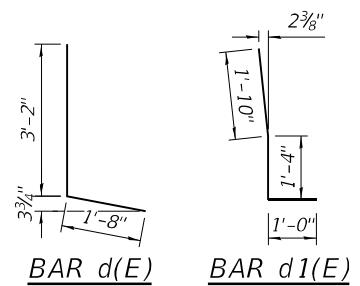
PROPOSED CONCRETE AT SOUTH ABUTMENT JOINT



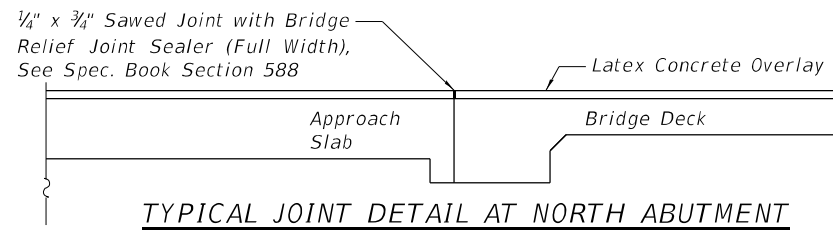
PARAPET ELEVATION AT JOINT
(West Side shown)



SECTION A-A



BAR d(E) BAR d1(E)



TYPICAL JOINT DETAIL AT NORTH ABUTMENT

*Cost of Sawed Joint and Bridge Relief Joint Sealer included with Bridge Deck Latex Concrete Overlay, 2 1/4"

Notes:
 W.S. - West Side
 E.S. - East Side
 W.W. - Wingwall

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	8	#7	18'-6"	—
d(E)	5	#4	4'-10"	┘
d1(E)	5	#5	4'-2"	┘

Pay Item	Unit	Qty
Bar Splicers	Each	4
Concrete Superstructure	Cu. Yd.	1.1
Reinforcement Bars, Epoxy Coated	Pound	351



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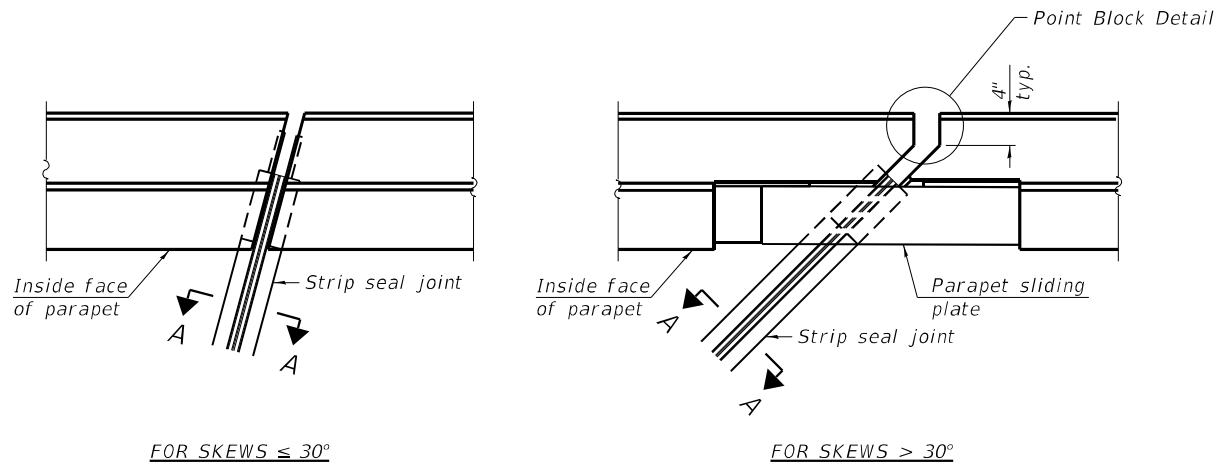
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT CONCRETE REPLACEMENT DETAILS
 F.A.P. 316 (IL 26) OVER COON CREEK - SN 052-0061

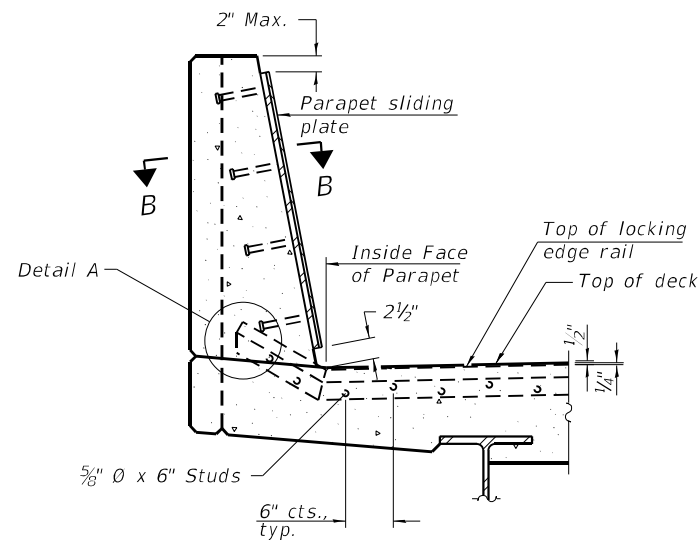
SHEET 9 OF 19 SHEETS

F.A.P. RTE. 316	SECTION (102 BR-4)BDR	COUNTY LEE	TOTAL SHEETS 48	SHEET NO. 28
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SA-9 OF SA-19

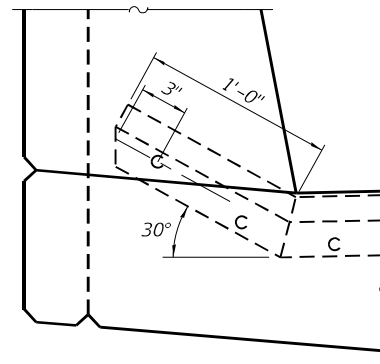


PLAN AT PARAPET

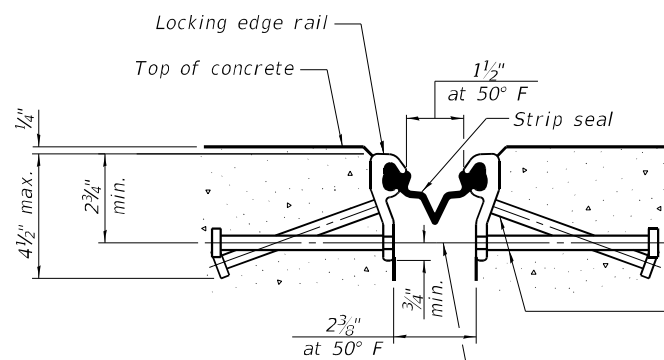


SECTION AT PARAPET

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



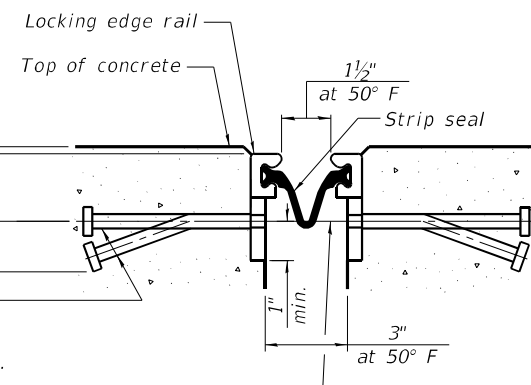
DETAIL A



SHOWING ROLLED RAIL JOINT

* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

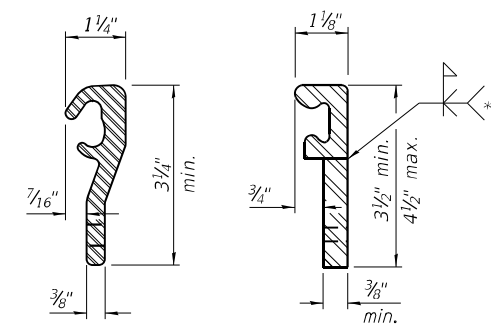
3/8" φ threaded rods in 7/16" φ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



SHOWING WELDED RAIL JOINT

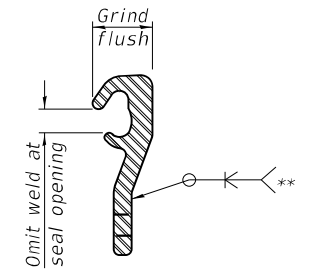
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

SECTION A-A



LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	42

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

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

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

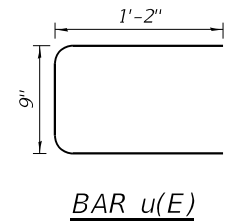
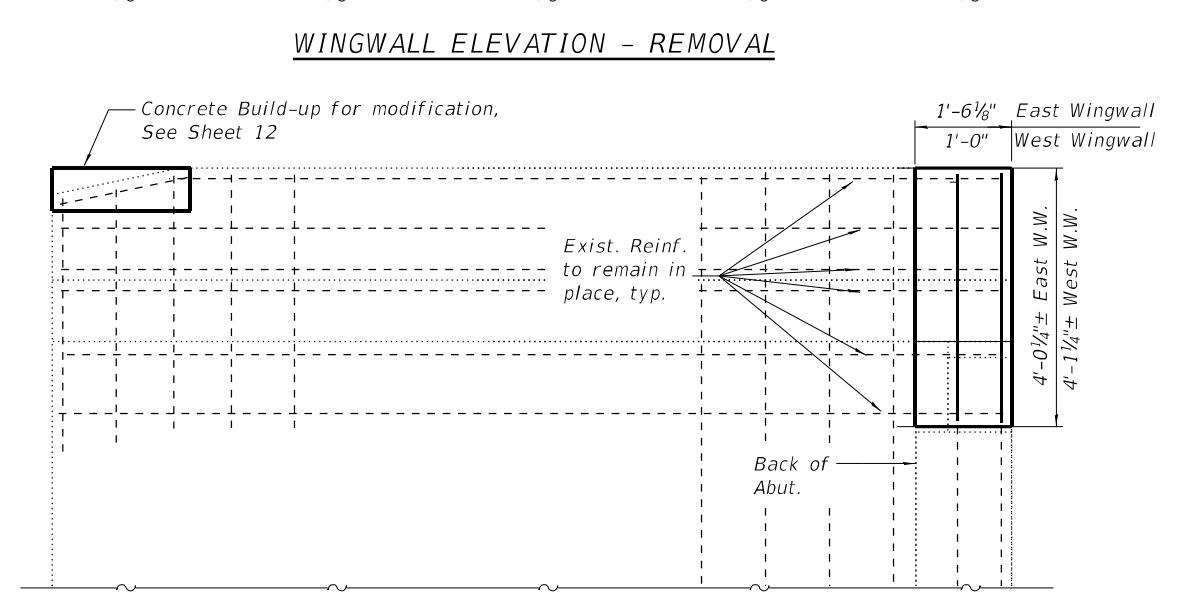
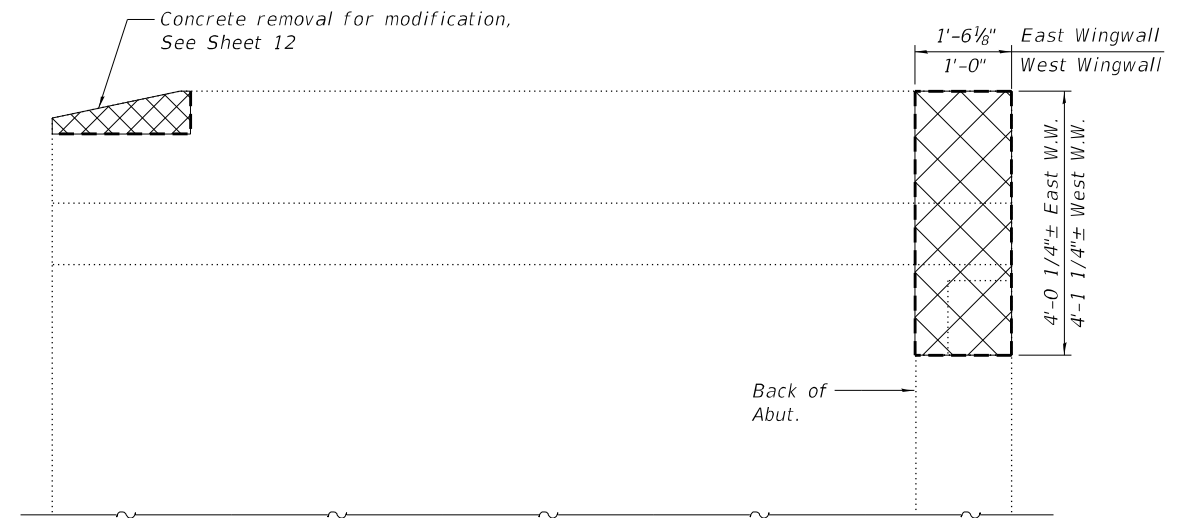
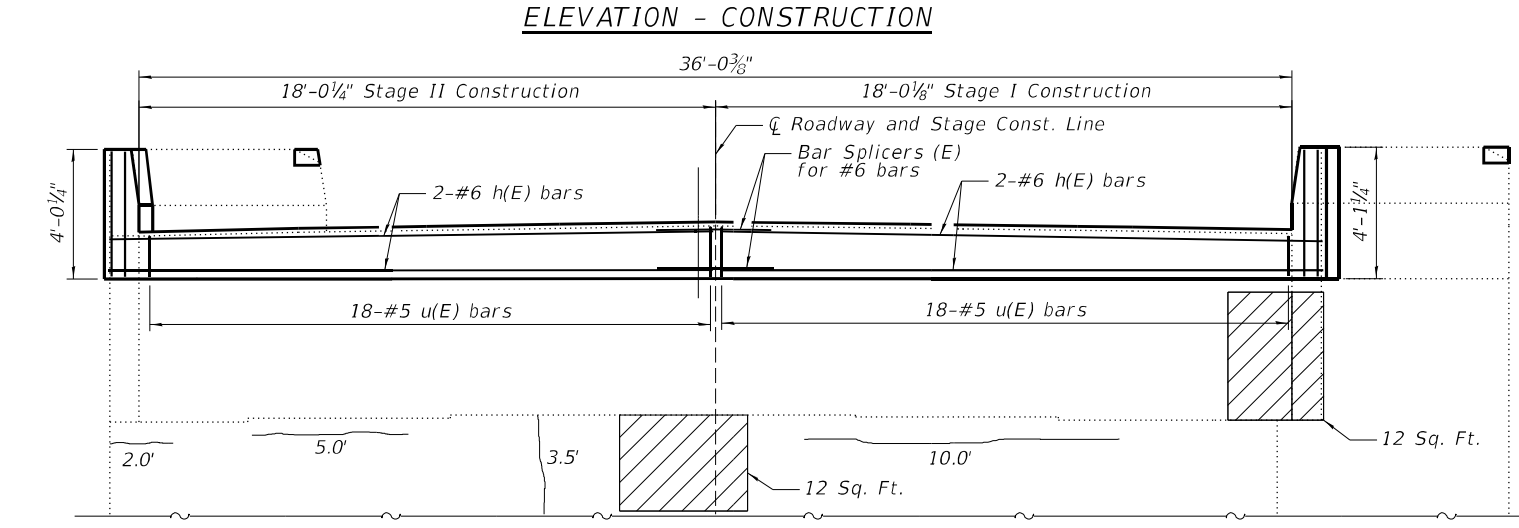
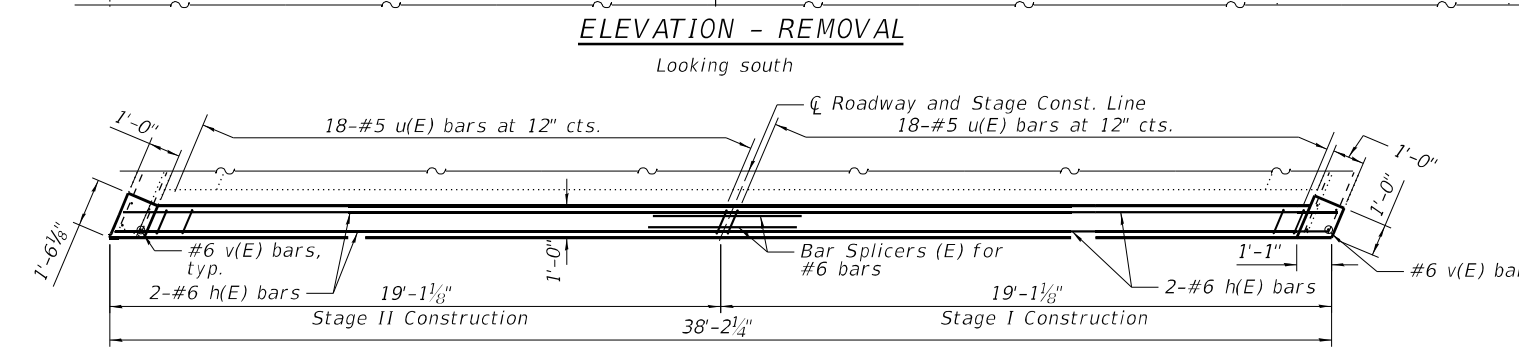
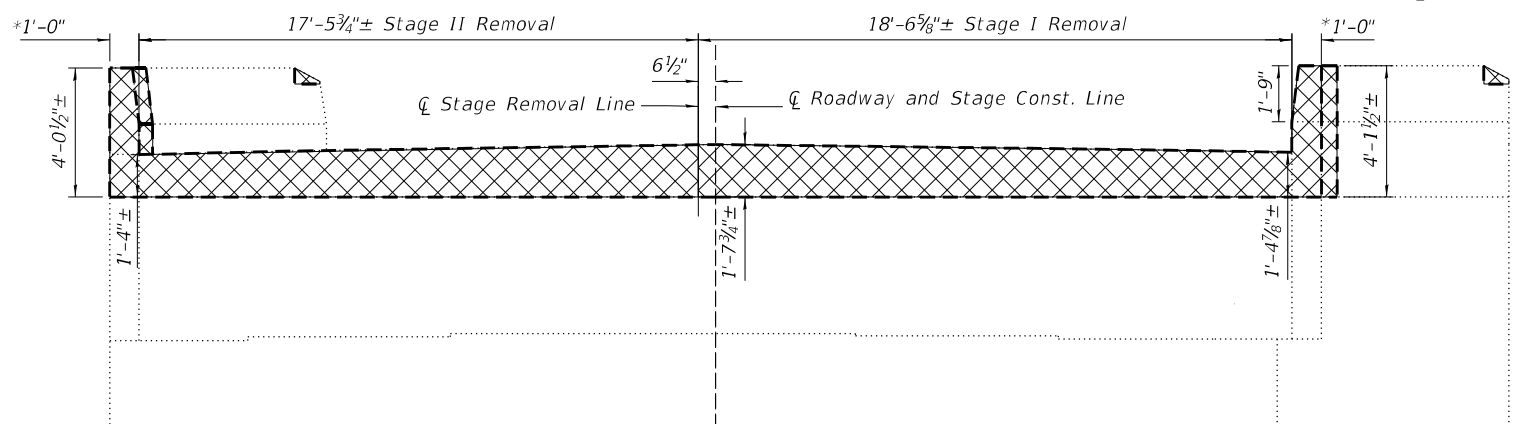
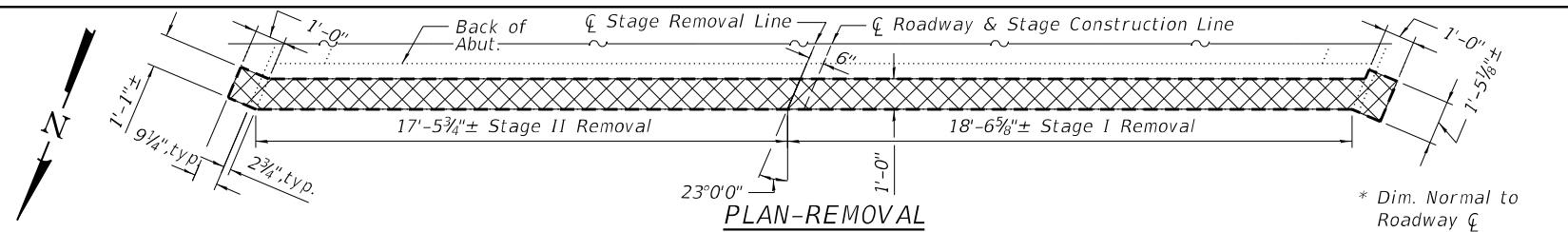
STRIP-SEAL JOINT DETAILS
F.A.P. 316 (IL 26) OVER COON CREEK - SN 052-0061

SHEET 10 OF 19 SHEETS

F.A.P. RTE. 316	SECTION (102 BR-4)BDR	COUNTY LEE	TOTAL SHEETS 48	SHEET NO. 29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64S30 JDCW(034)	

SA-10 OF SA-19

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NOTES:

- Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into new construction. Any reinforcement bars that are damaged during concrete removal operations shall be replaced at the Contractor's expense.
- See Sheet 12 for details of the parapet modification at the ends of each wingwall.

LEGEND:

- Concrete Removal
- Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)
- Epoxy Crack Injection

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
h(E)	8	#6	18'-9"	—
u(E)	36	#5	3'-1"	□
v(E)	8	#6	3'-10"	—
Concrete Removal			Cu. Yd.	2.5
Concrete Superstructure			Cu. Yd.	2.8
Epoxy Crack Injection			Foot	20.5
Reinforcement Bars, Epoxy Coated			Pound	390
Bar Splicers			Each	4
Structural Repair of Concrete (Depth Equal to or Less Than 5 inches)			Sq. Ft.	24

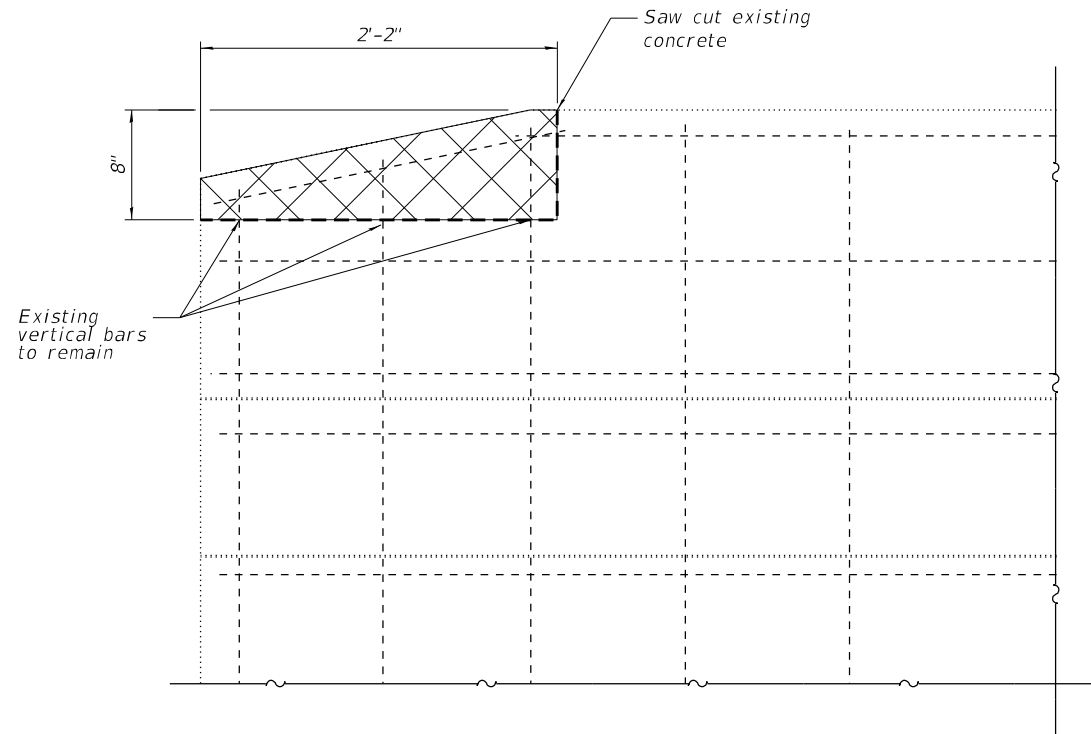
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

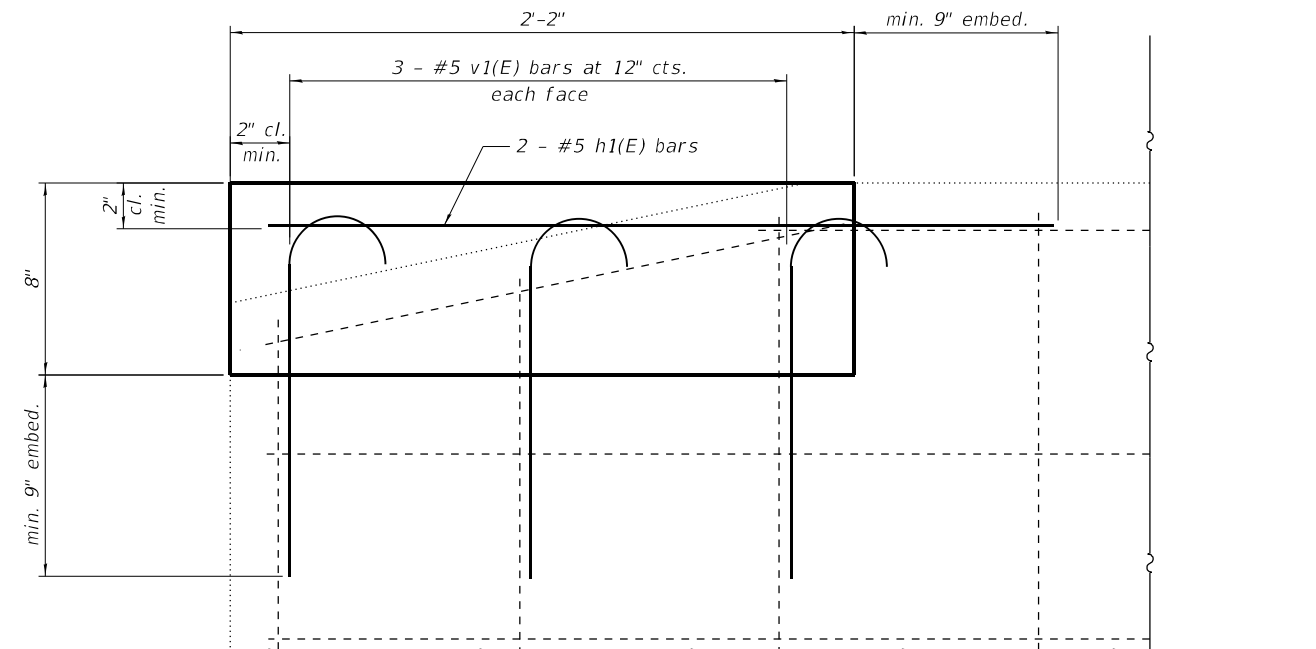
SOUTH ABUTMENT REPAIR DETAILS
F.A.P. 316 (IL 26) OVER COON CREEK - SN 052-0061

F.A.P. RTE. 316	SECTION (102 BR-4)BDR	COUNTY LEE	TOTAL SHEETS 48	SHEET NO. 30
CONTRACT NO. 64S30				
ILLINOIS FED. AID PROJECT JDCW(034)				

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**EXISTING ABUTMENT
WINGWALL ELEVATION**



**PROPOSED ABUTMENT
WINGWALL ELEVATION**

NOTES

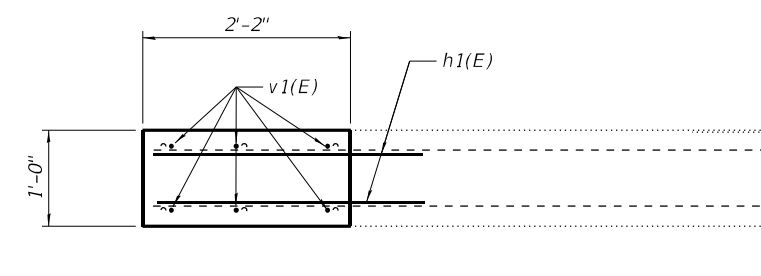
All edges shall have standard ($\frac{3}{4}$ ") chamfers.

Reinforcement bars designated (E) shall be epoxy coated.

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

LEGEND

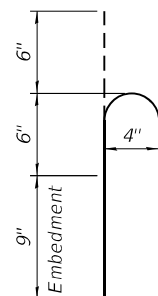
- Concrete Removal
- Concrete build-up for transition rail support



PLAN VIEW OF WINGWALL END

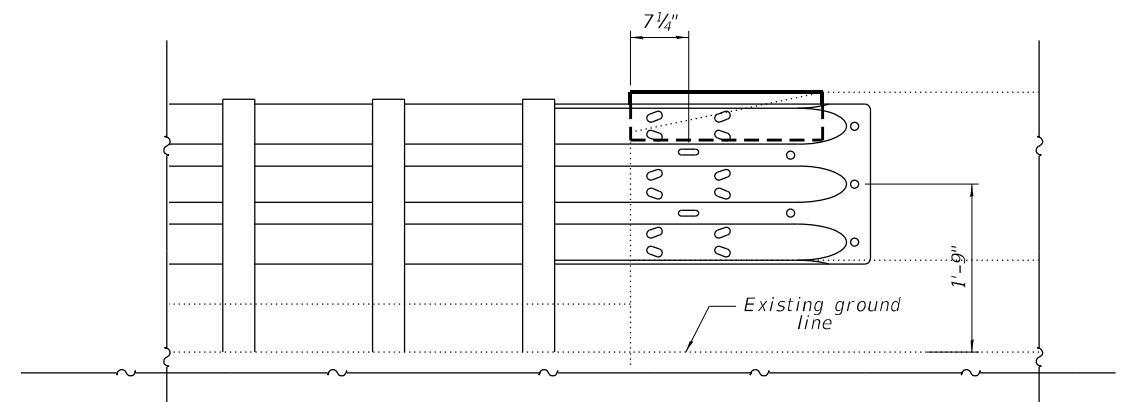
BILL OF MATERIALS

BAR	NO. OF BARS		TOTAL	SIZE	LENGTH	SHAPE
	STAGE I	STAGE II				
v1(E)	12	12	24	#5	1'-9"	
h1(E)	4	4	8	#5	2'-9"	
Concrete Removal					Cu. Yd.	0.8
Concrete Superstructure					Cu. Yd.	1.0
Reinforcement Bars, Epoxy Coated					Pound	68
Drill and Grout Bars					Each	32



BAR v1(E)

* Epoxy grout v1(E) and h1(E) bars in 9" min. holes according to Article 584 of Std. Spec. Cost included with Concrete Superstructure.



GUARDRAIL LOCATION
Guardrail Type 6



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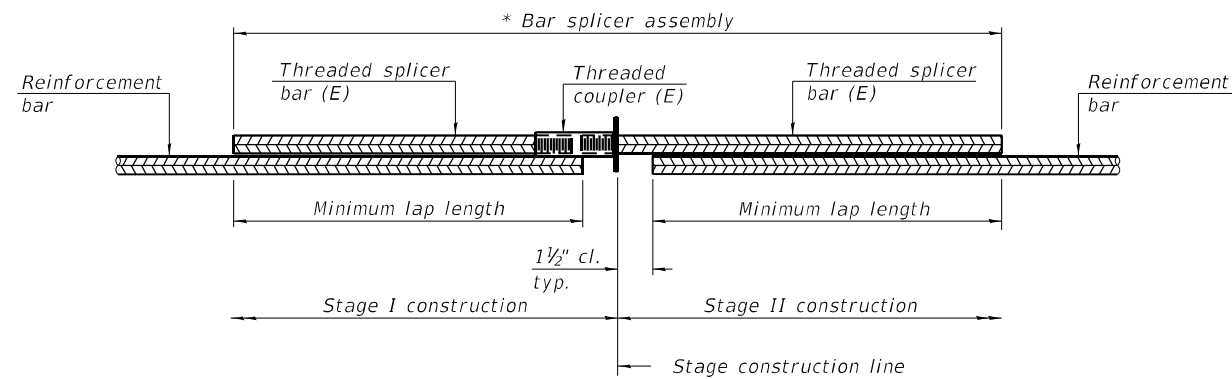
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUT. WINGWALL MODIFICATION DETAILS
F.A.P. 316 (IL 26) OVER COON CREEK - SN 052-0061**

SHEET 12 OF 19 SHEETS

F.A.P. RTE. 316	SECTION (102 BR-4)BDR	COUNTY LEE	TOTAL SHEETS 48	SHEET NO. 31
CONTRACT NO. 64S30			ILLINOIS FED. AID PROJECT JDCW(034)	

SA-12 OF SA-19



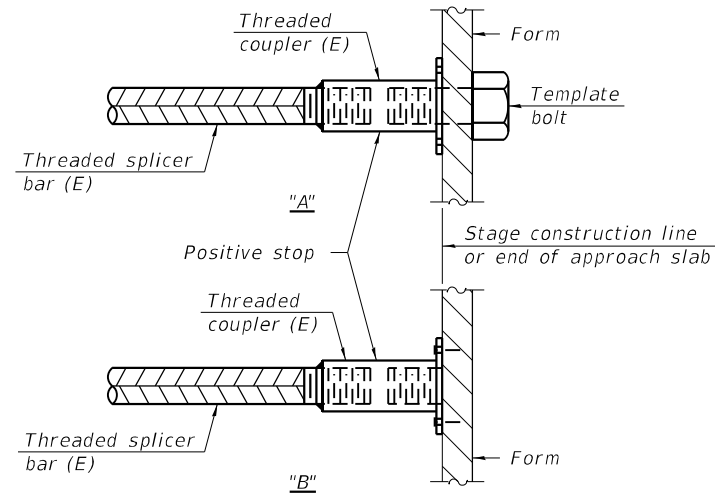
STANDARD BAR SPLICER ASSEMBLY PLAN

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

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

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

Location	Bar size	No. assemblies required	Minimum lap length
South Abut. Joint	#7	4	4'-0"
S. Abut. Hatchblk.	#6	4	4'-10"

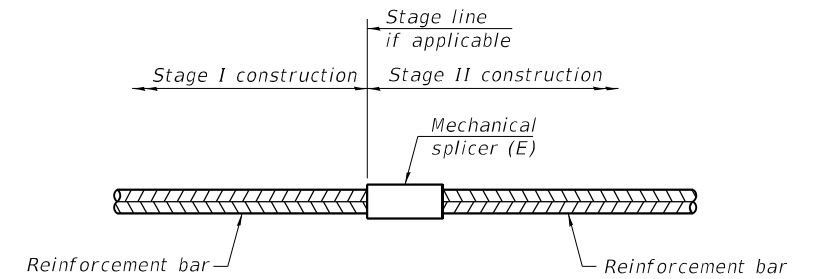


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

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

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BSD-1

2-1-2023



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER DETAILS
 F.A.P. 316 (IL 26) OVER COON CREEK - SN 052-0061

SHEET 13 OF 19 SHEETS

F.A.P. RTE. 316	SECTION (102 BR-4)BDR	COUNTY LEE	TOTAL SHEETS 48	SHEET NO. 32
CONTRACT NO. 64S30			ILLINOIS FED. AID PROJECT JDCW(034)	

SA-13 OF SA-19

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

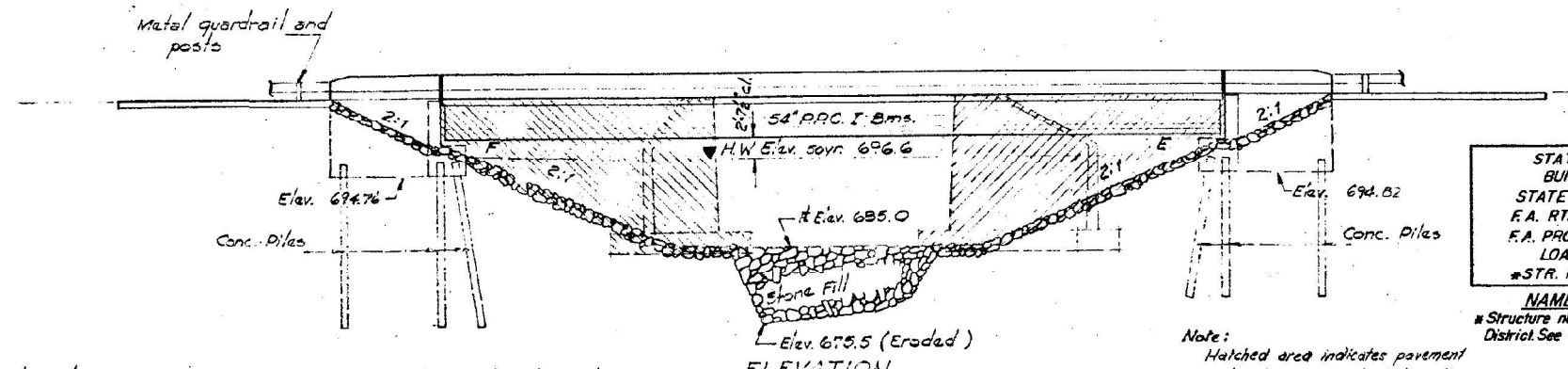
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
38	BR-4	LEE	61	30

GENERAL NOTES

See Proposal for Boring Data.

All structural steel shall be shop painted with two coats of basic lead silico chromate paint. Layout of stone riprap may be varied in the field to suit ground conditions as directed by the Engineer. The contractor shall drive one concrete test pile in a permanent location at the North Abutment as directed by the Engineer before ordering the remainder of piles. The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments. Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

Bench Mark: Chisago 'D' on N.E. Winowski of bridge 25' Lt. @ Sta. 225+93 Elev. (TOD) 25
Existing Structure - 1980 CORN BUILT IN 1980 on S.B.I. Rte. 29, Section 102 B (a) Sta. 634+22. Single span R.C.C. 38'-5" Sk. to Bk. 4'-2" Cut to Cut variable. Contractor shall remove existing structure during construction of proposed bridge.
Traffic to be detoured during construction.



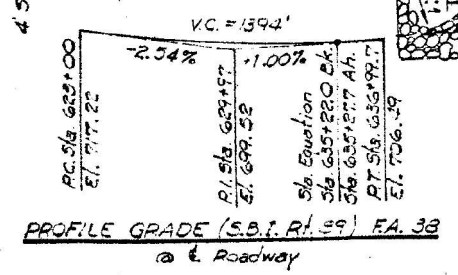
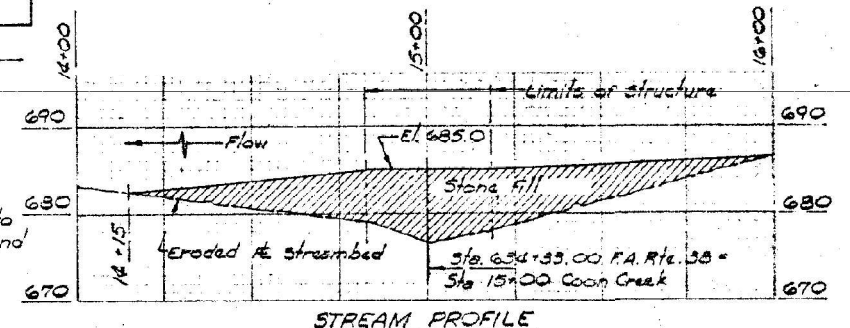
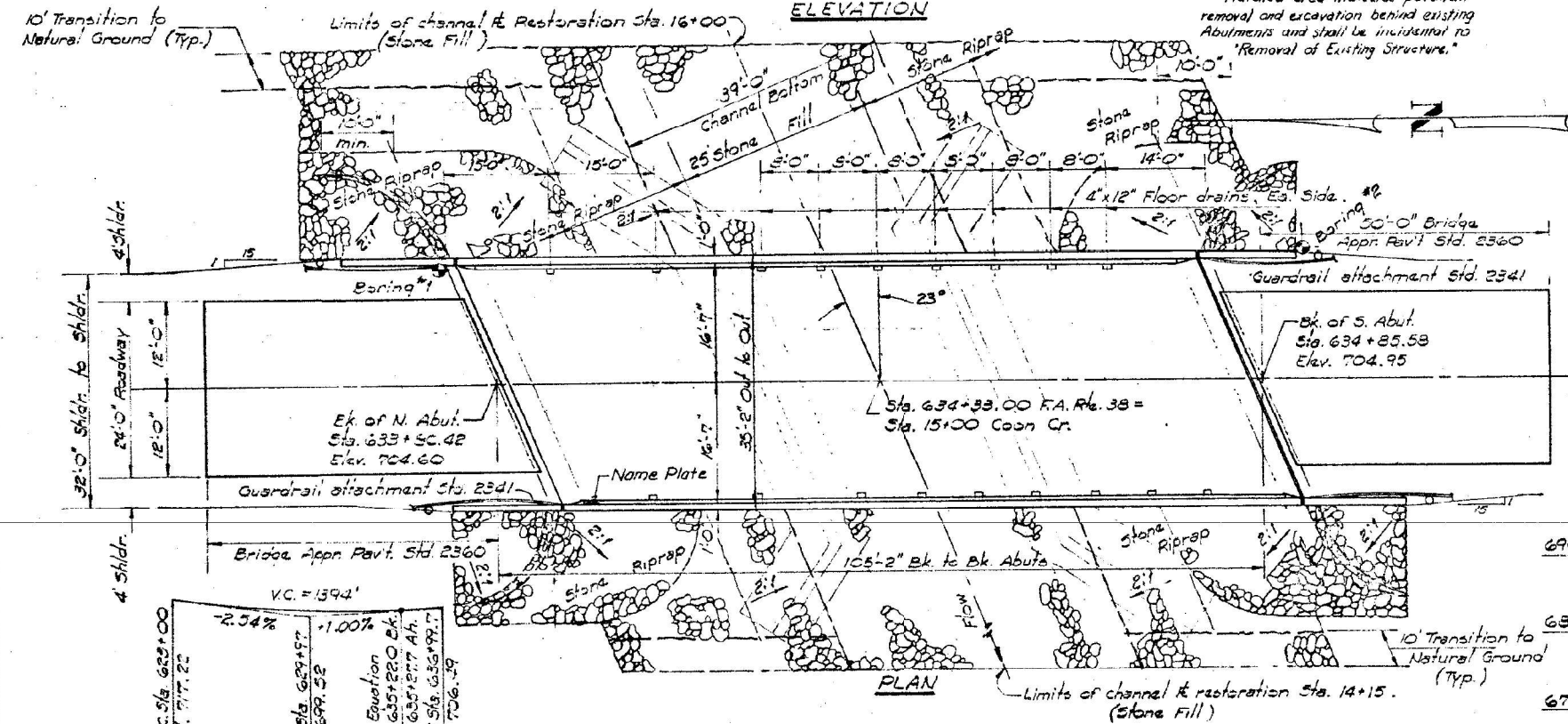
STATION 634+33.00
BUILT 1980 BY
STATE OF ILLINOIS
F.A. RT. 38 SEC. 102 BR-4
F.A. PROJ. BR-F-EP-38(23)
LOADING HS 20
*STR. NO. _____
NAME PLATE
*Structure number to be supplied by District See Std. 213.

WATERWAY INFORMATION

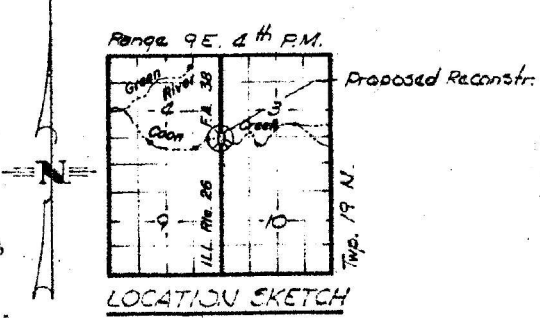
Drainage Area	Low Grade Elev.		@ Sta.	
	Flood	Design	Head - Ft. Exist.	Headwater El. Prop.
Frequency	100			
Opening Sq. Ft.				
Flow				
Max. Calc.	500			

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Furnishing and Erecting R.P.C. I Beams (54")	Lin. Ft.	603		603
Structure Excavation	Cu. Yds.		273	273
Protective Coat	Sq. Yds.	470		470
Class X Concrete	Cu. Yds.	122.1	105.8	227.9
Structural Steel	Lbs.			2110
Reinforcement Bars	Lbs.	9880	8540	18420
Reinforcement Bars (Epoxy Coated)	Lbs.	15270		15270
Concrete Piles	Lin. Ft.		486	486
Test Piles (Concrete)	Each		1	1
Preformed Joint Seal (4")	Lin. Ft.	38		38
Floor Drains	Each	18		18
Name Plate	Each	1		1
Stone Riprap	Sq. Yds.		1718	1718
Stone Fill	Tons		875	875
Elastomeric Bearing Assembly, Type I	Each	6		6
Removal of Existing Structure	Each			1



DESIGN STRESSES
FIELD UNITS
fc = 3,500 psi fy = 60,000 psi
Top layer of reinforcement bars in deck slab shall be epoxy coated.
PRECAST PRESTRESSED UNITS
fc = 6,000 psi fci = 4,900 psi
fs = 270,000 psi (1/2" & Strands)
fsi = 139,000 psi (1/2" & Strands)
LOADING HS 20-44
Design Specifications: MTT AASHTO, 1978, 1979 & 1980 Interim Specifications.
Allow 25#/sq. ft. for future wearing surface.



GENERAL PLAN
F.A. Rte. 38 (ILL. Rte. 26) OVER COON CREEK
F.A. Rte. 38 SECTION 102 BR-4
LEE COUNTY
Sta. 634+33.00

052-0061
DESIGNED David Burdick
CHECKED R. F. Kowalski
DRAWN J. Collins
CHECKED D.B. R. K.
EXAMINED
APPROVED
DECEMBER 12 1980



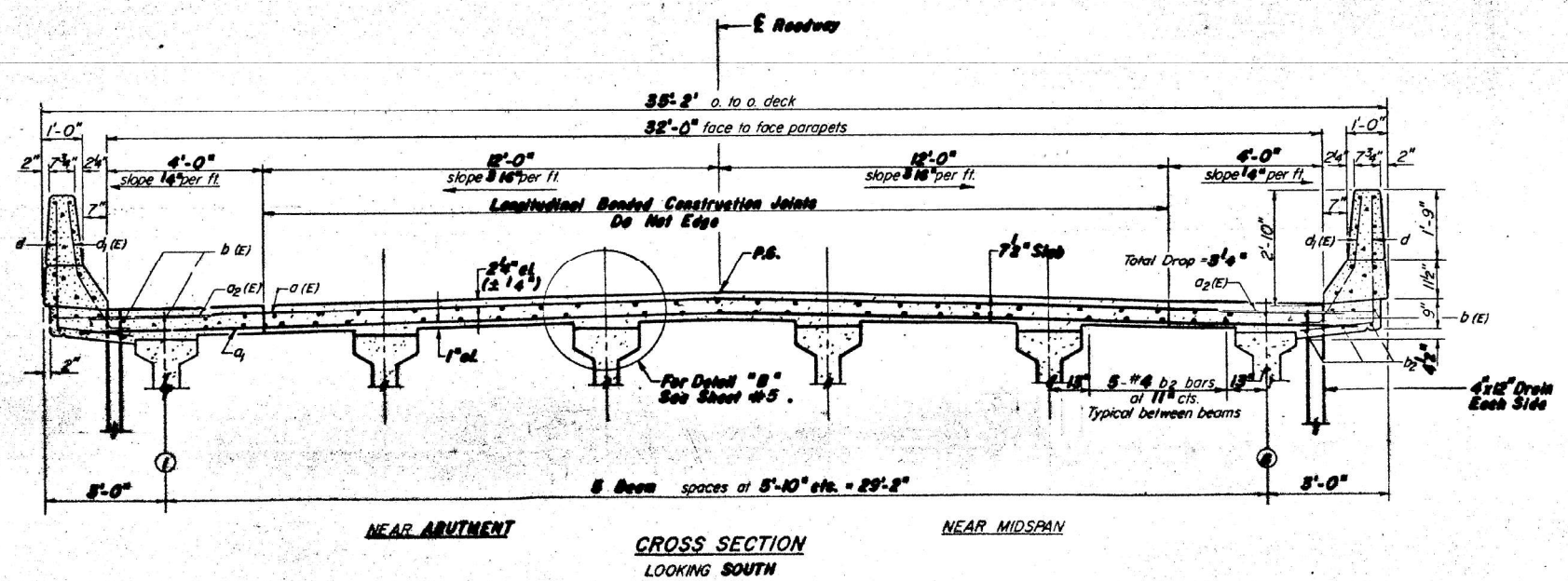
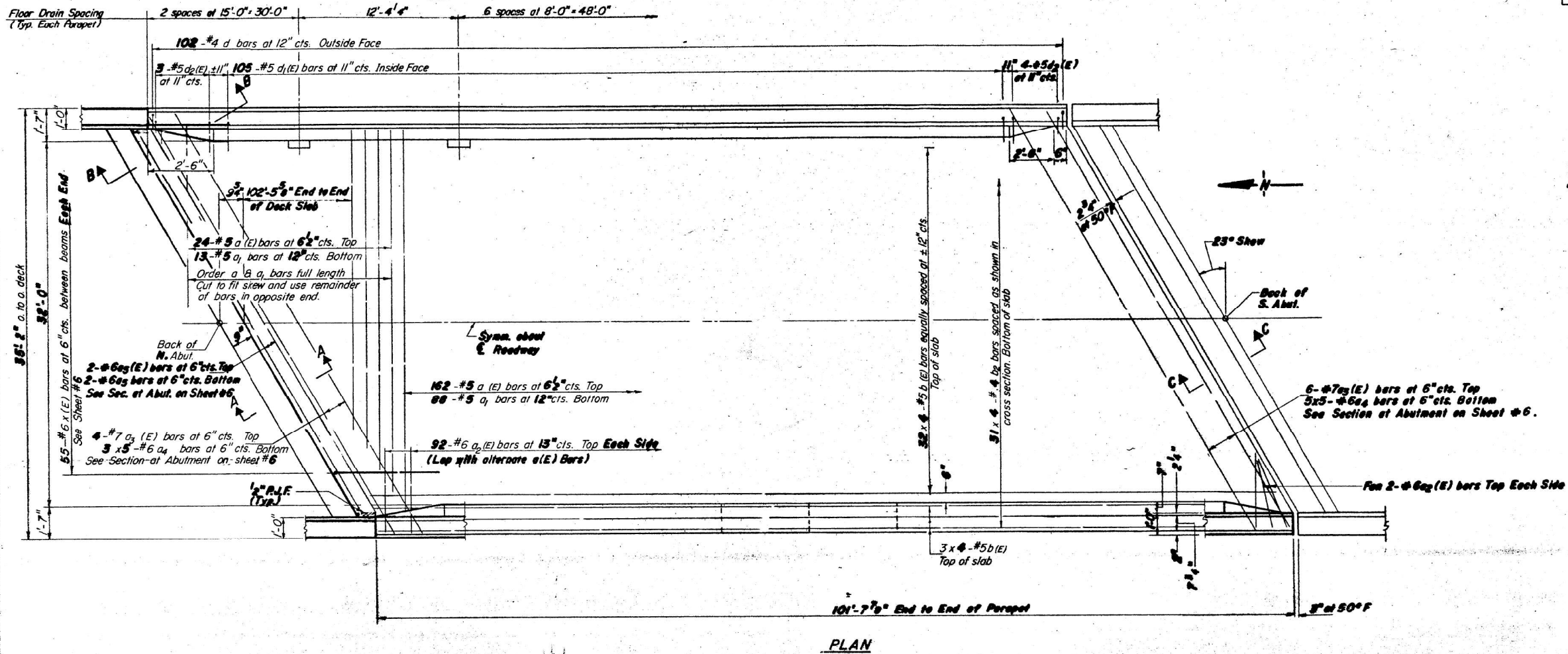
Rev 1-27-81 RFR

2-129

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	102	SECTION	LEE	TOTAL SHEETS	61	SHEET NO.	33
F.A.P. NO.	38	BR-4					
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT				



NOTES:
 See sheet #5 for Bill of Material and Parapet Details.
 See sheet #6 for Sections at Abutments.
 Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

SUPERSTRUCTURE
F.A. RTE. 38-SECTION 102 BR-4
LEE COUNTY
STA. 634+33.00

DESIGNED	David Swedick	EXAMINED	Dec 19, 1980
CHECKED	R. F. RODKEY	PASSED	
DRAWN	Collins	APPROVED	
CHECKED	D.B. KFR	DIRECTOR OF HIGHWAYS	

PI-1-R(15) 3-9-77

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
 F.A.P. 316 (IL 26) OVER COON CREEK - SN 052-0061

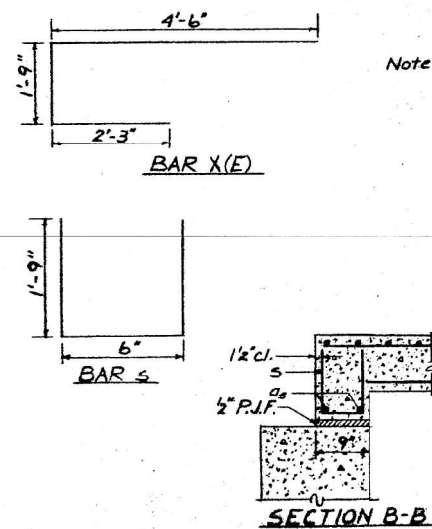
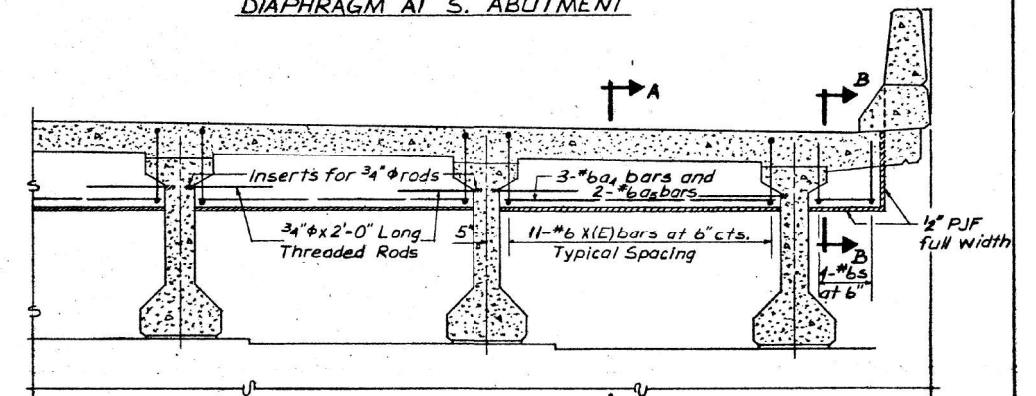
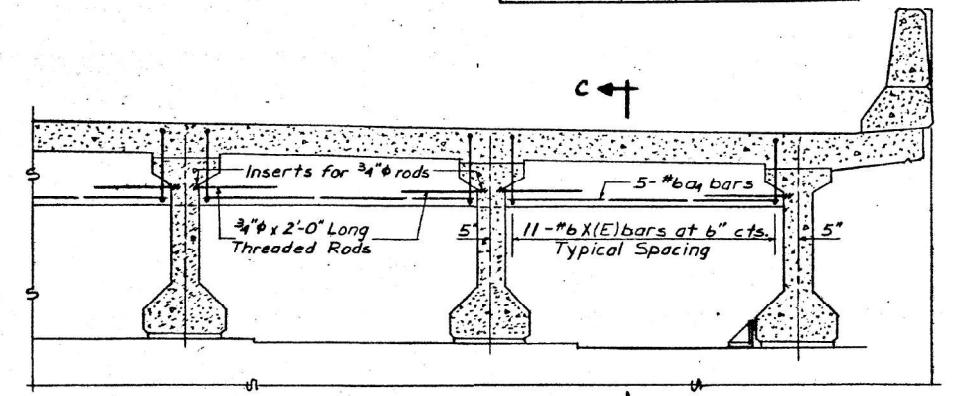
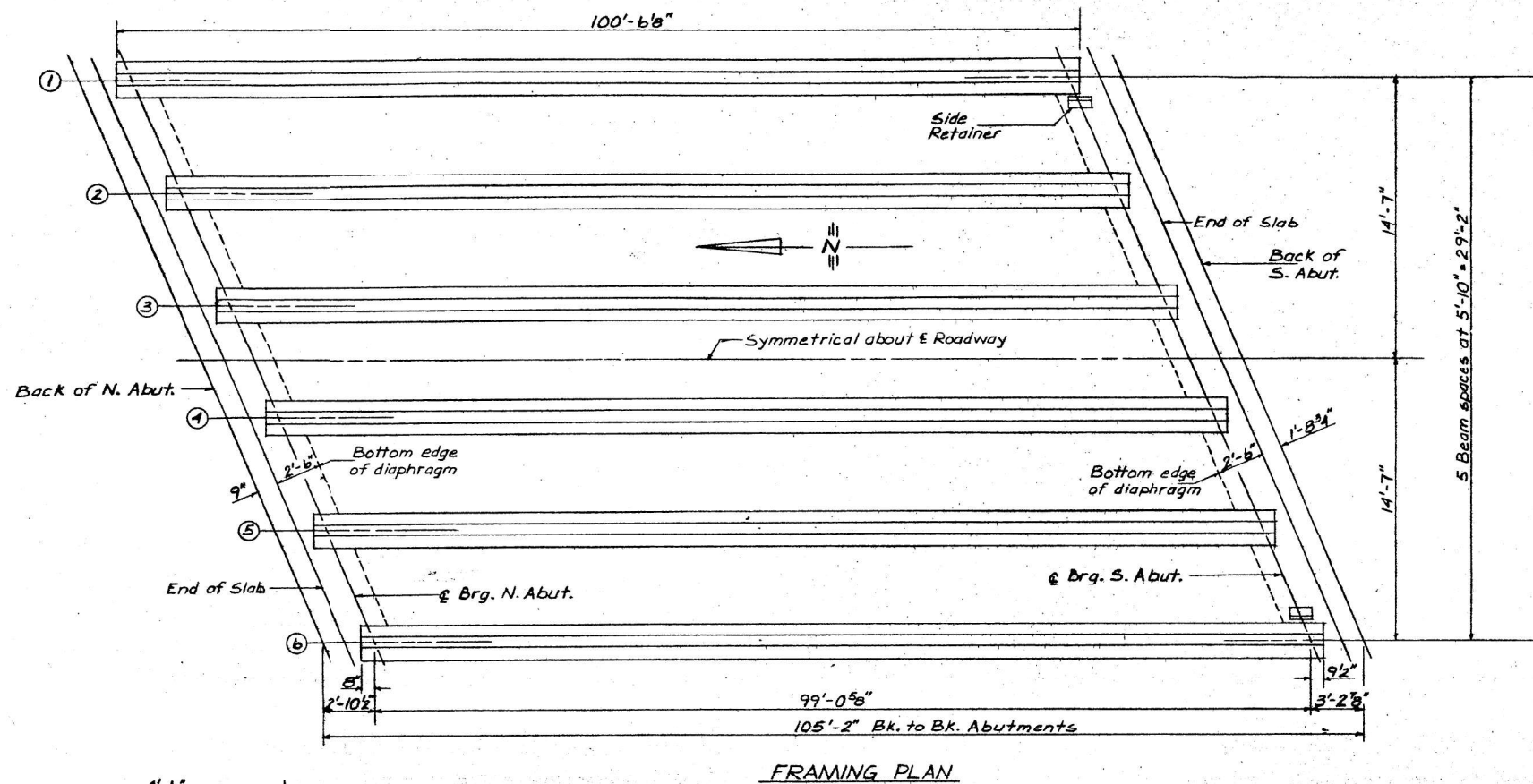
SHEET 15 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64S30			ILLINOIS FED. AID PROJECT JDCW(034)	

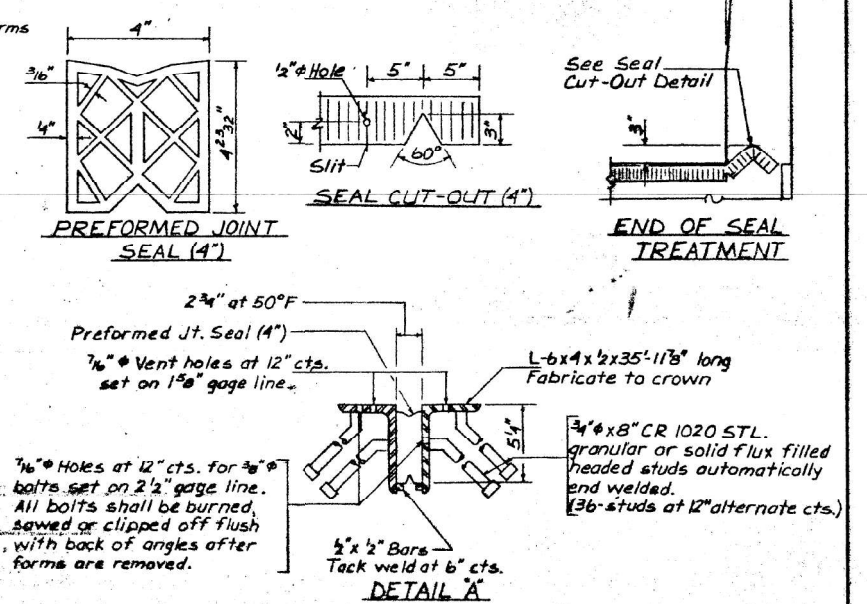
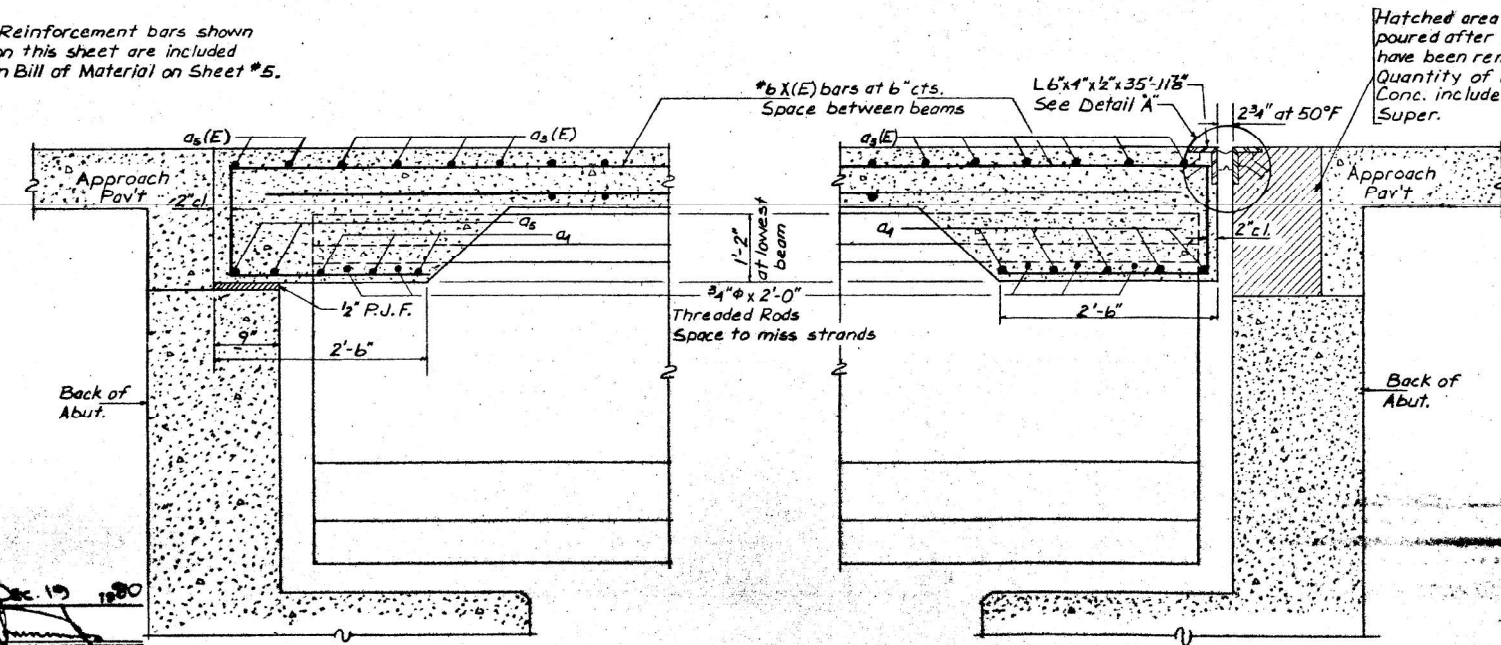
SA-15 OF SA-19

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6 11 SHEETS
F.A.P. 38	102 BR-4	LEE	61	35	
ILLINOIS FED. AID PROJECT					



Note: Reinforcement bars shown on this sheet are included in Bill of Material on Sheet #5.



DESIGNED David Burdick	EXAMINED
CHECKED R. F. Rodkey	PASSED
DRAWN D. Burdick	APPROVED
CHECKED D.B. R. F. R.	

SUPERSTRUCTURE DETAILS
FA. RTE. 38 SECTION 102 BR-4
LEE COUNTY
STA. 631+33.00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
F.A.P. 316 (IL 26) OVER COON CREEK - SN 052-0061

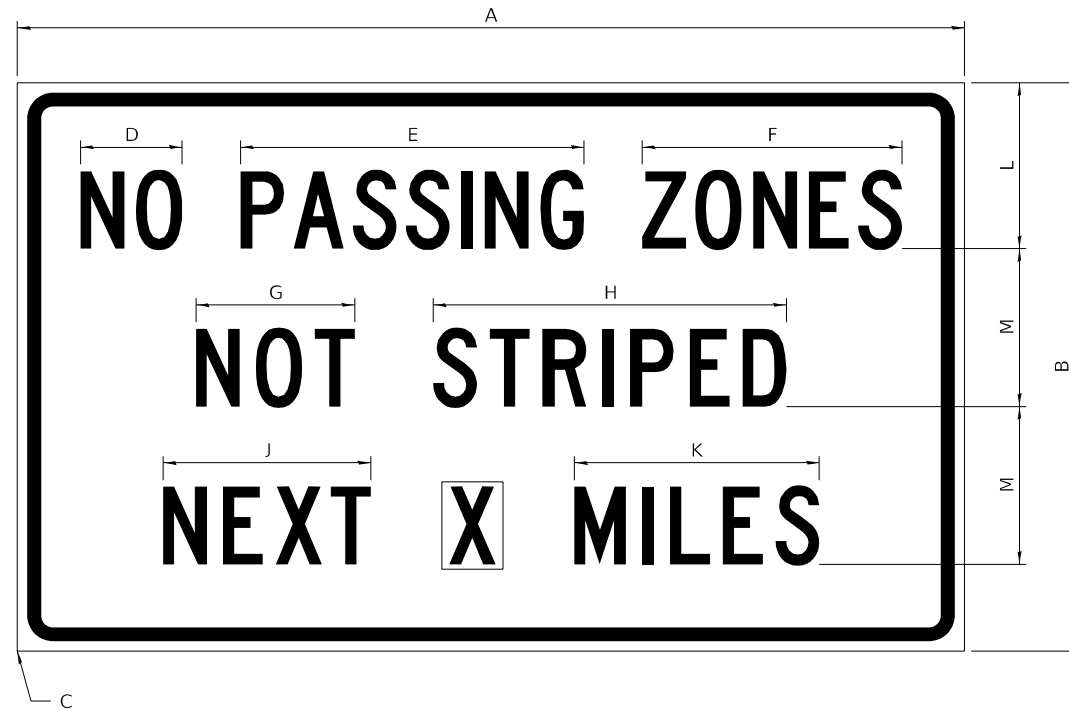
SHEET 17 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(102 BR-4)BDR	LEE	48	36
CONTRACT NO. 64S30				
ILLINOIS FED. AID PROJECT JDCW(034)				

SA-17 OF SA-19

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

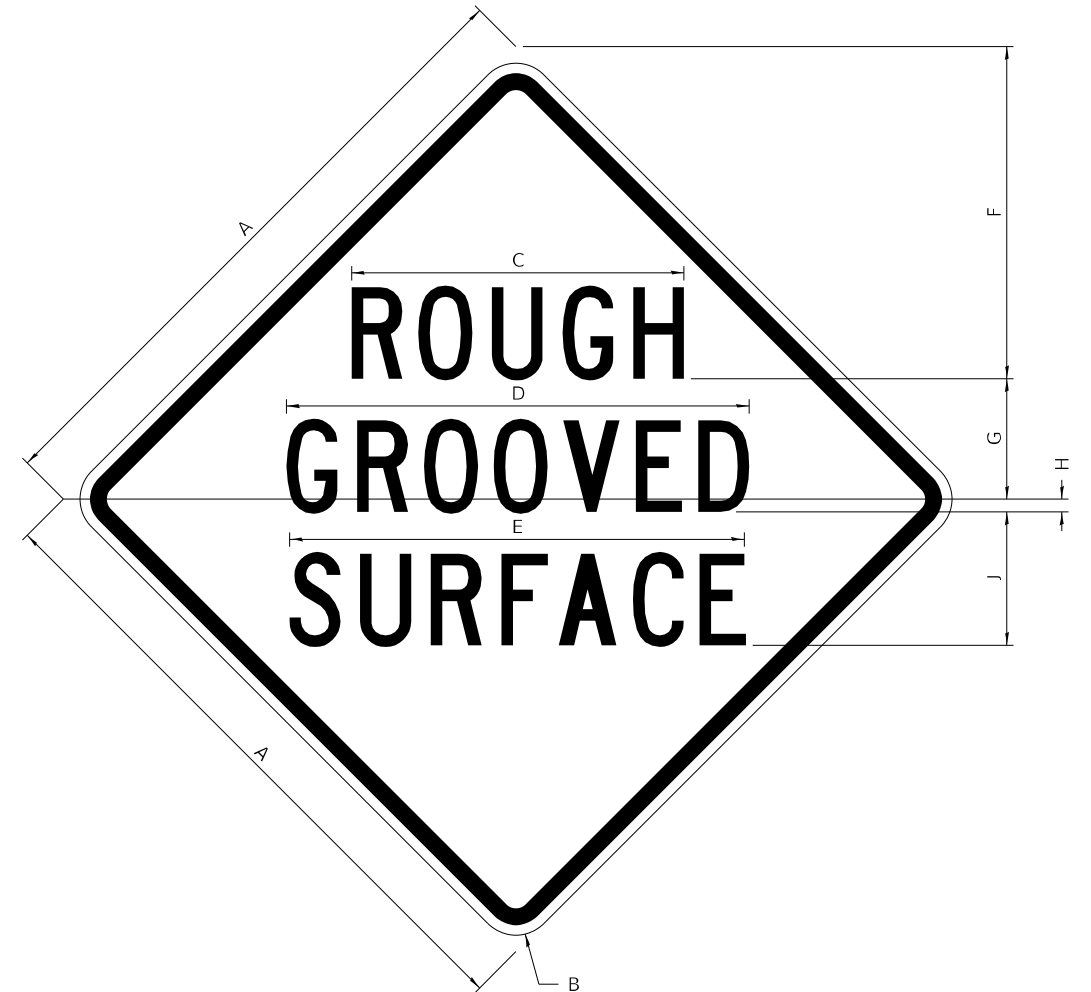
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

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

Sign not to scale

MODEL: Unsaved (Rev - 04.1) - 02-1 (Rev) 1
 FILE NAME: \\quigg\projects\2023\2023-03-28\1030-PTB-2023-D2-Quiggle-Various Phase I\W8-I107-2-Corr-Creat\CAD\CADD Sheet\0264S30-sh1-D2_Standards.dgn



USER NAME = rgoertgoertz	DESIGNED -	REVISED - 3-02-16
D264S30-sh1-D2_Standards.dgn	DRAWN -	REVISED -
PLOT SCALE = 0.1666666633' / in.	CHECKED -	REVISED -
PLOT DATE = 1/29/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD

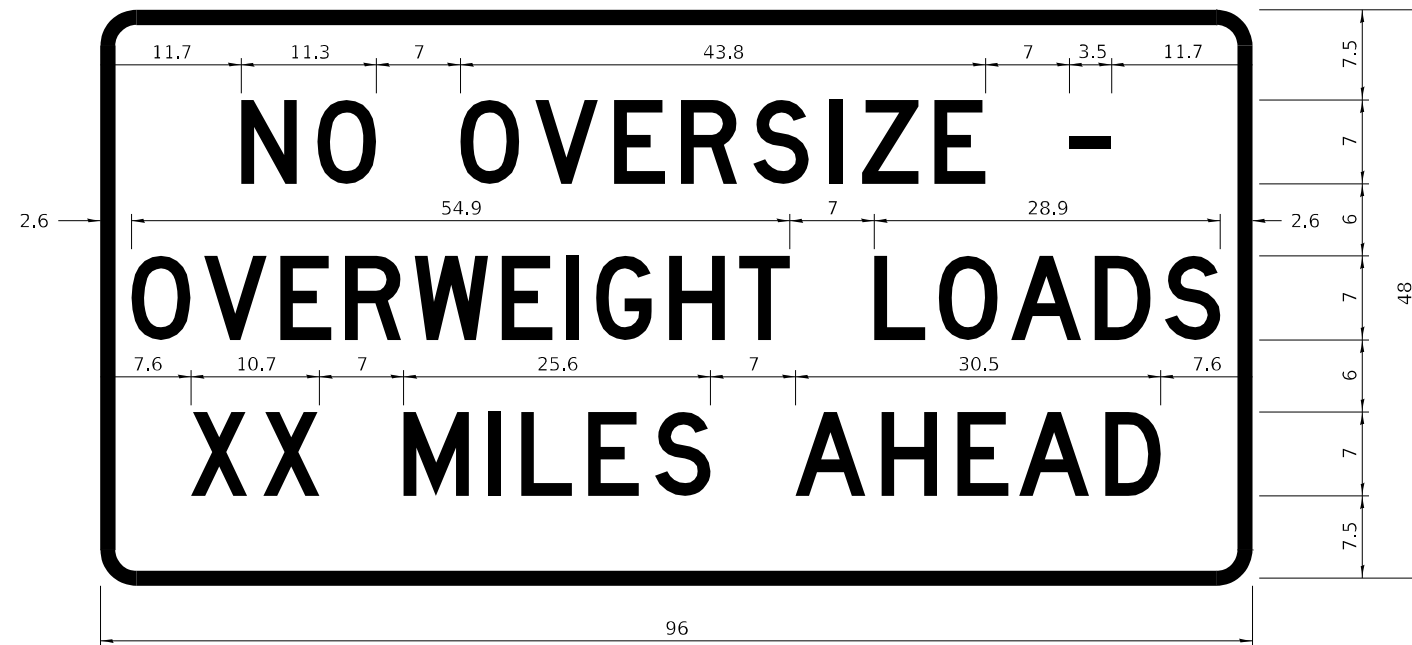
SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(102-BR-4)BDR	LEE	48	40
CONTRACT NO. 64S30			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
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COLOR	LEGEND AND BORDER BACKGROUND	BLACK WHITE	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.

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

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

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: Unsaved (Rev - 04.1) 0 of 1 (Rev 0)
 FILE NAME: \\p01\projects\2023\20230324\B30_P1B_202303_D2 - 04undel - Various Phase I\W0 2 - Con Create\CADD\CADD Sheets\026\026S30-P1B-D2_Standards.dgn



USER NAME = rgoertz	DESIGNED -	REVISED - 3-02-16
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 1/29/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

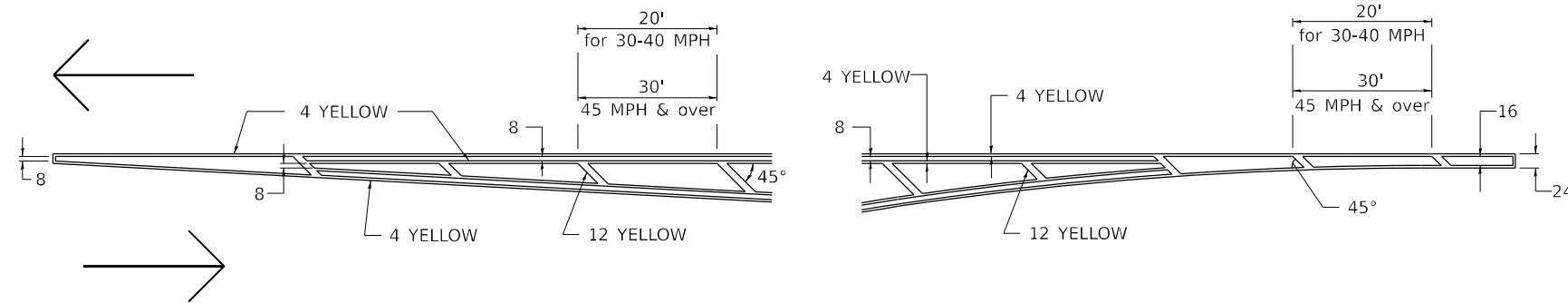
REGION 2 / DISTRICT 2 STANDARD

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

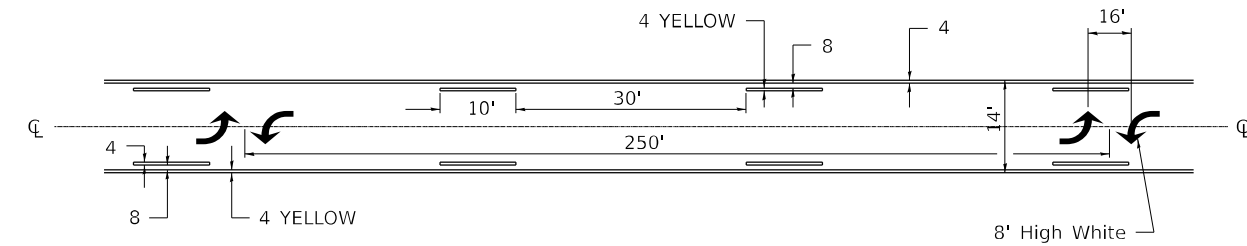
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(102-BR-4)BDR	LEE	48	42
CONTRACT NO. 64S30				
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

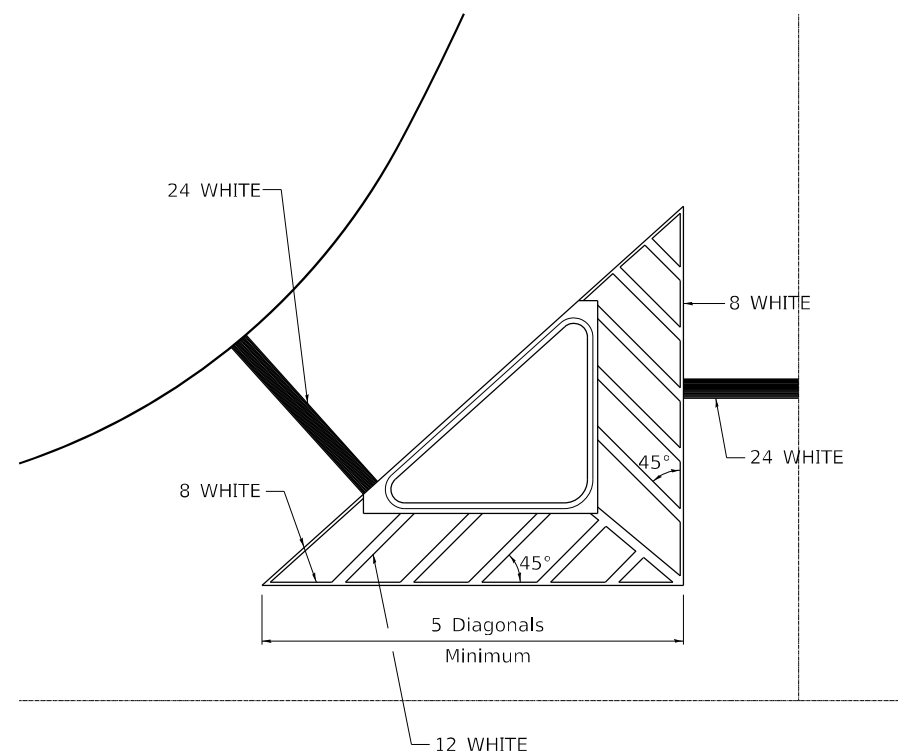


MEDIAN PAVEMENT MARKING



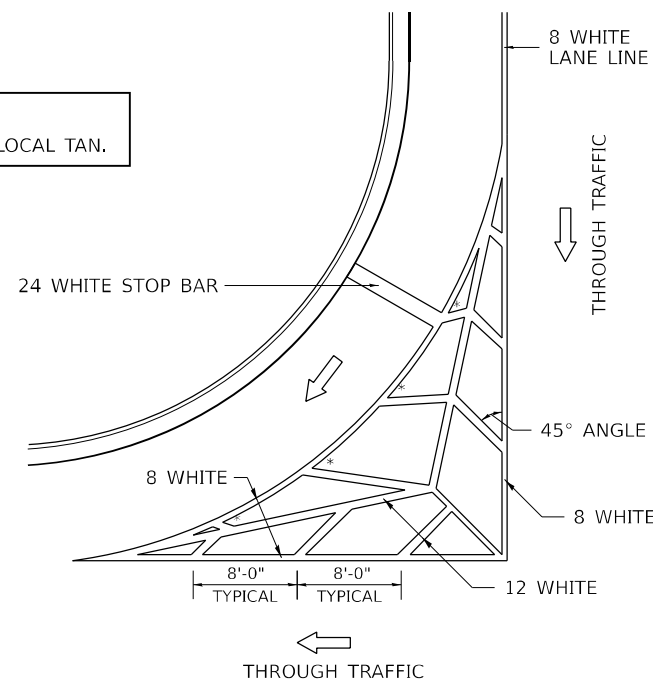
** ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



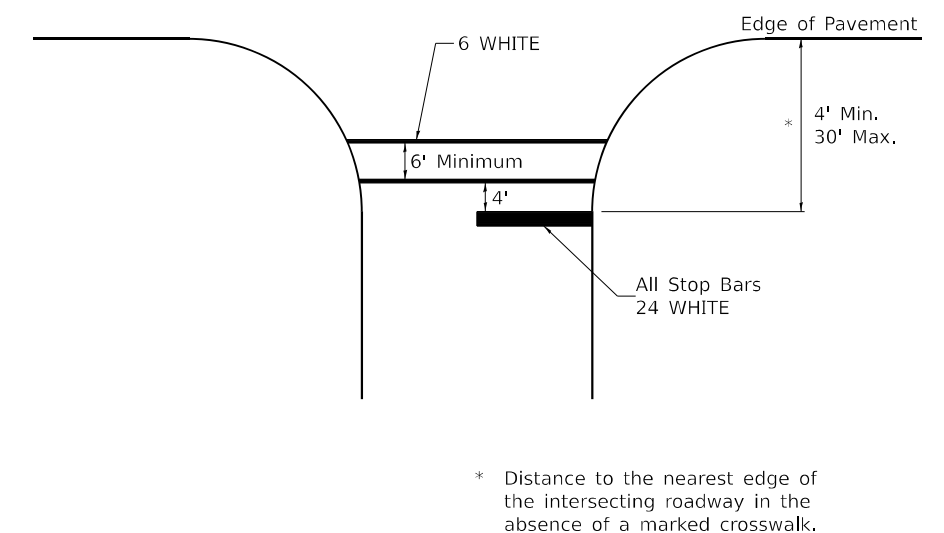
TYPICAL MARKING FOR PAINTED ISLANDS

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: Unnamed (Rev: 41.1) OF: 3 (Sheet)
FILE NAME: \\u0101\projects\2023\230323\230323.dwg



USER NAME = rgoertz	DESIGNED -	REVISED - 6-27-14
PLOT SCALE = 0.16666833' / in.	DRAWN -	REVISED - 3-05-12
PLOT DATE = 1/29/2024	CHECKED -	REVISED -
	DATE -	REVISED -

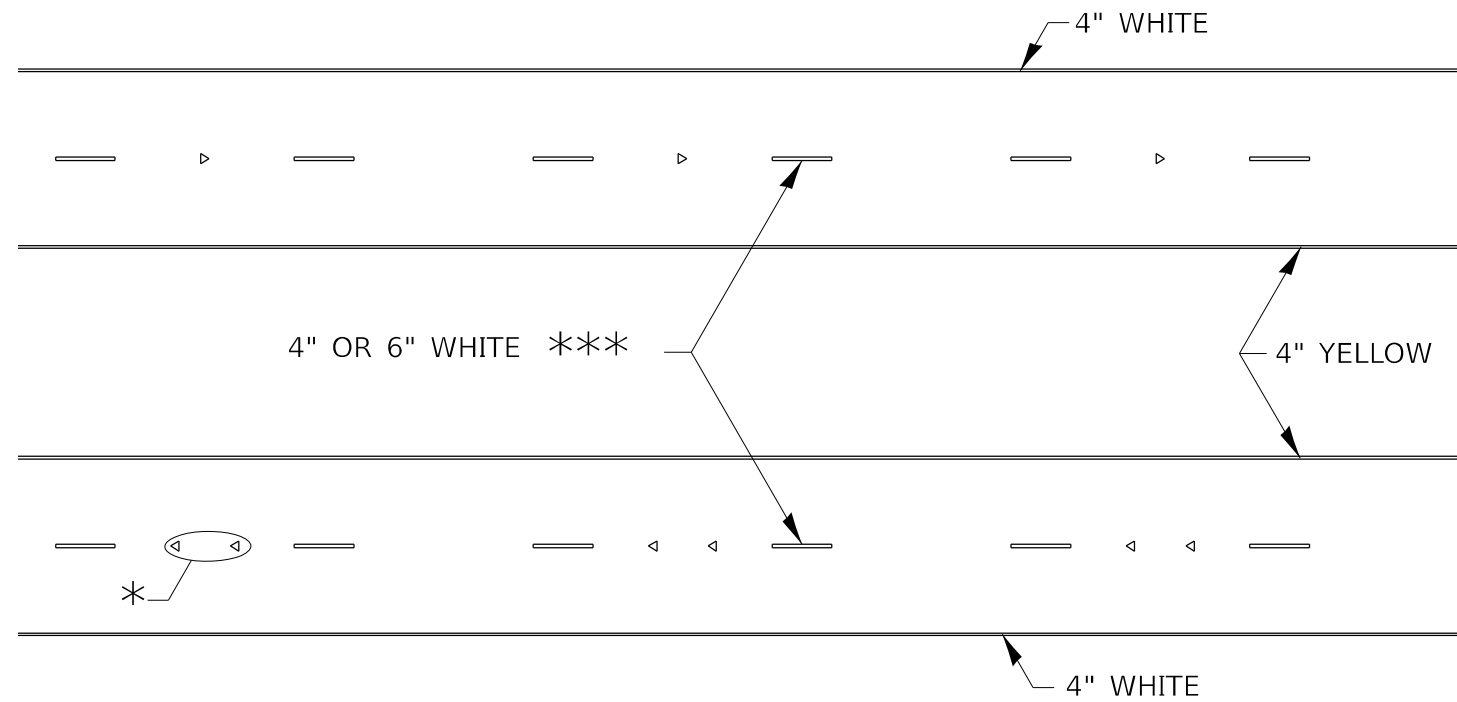
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

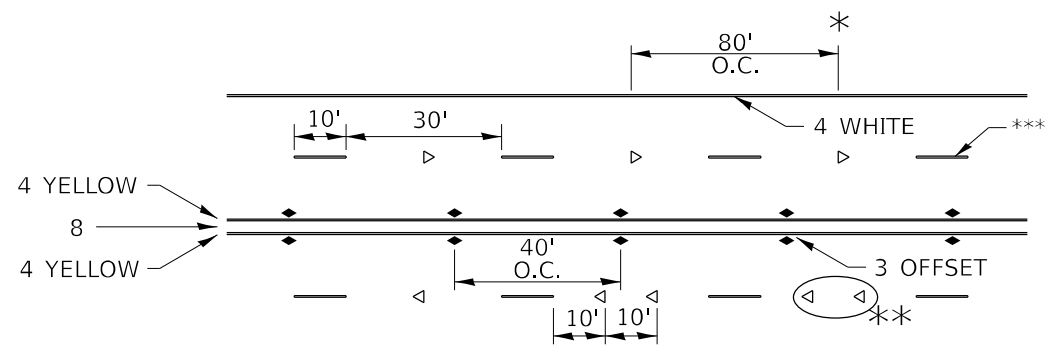
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(102-BR-4)BDR	LEE	48	44
CONTRACT NO. 64S30				
ILLINOIS FED. AID PROJECT				

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.

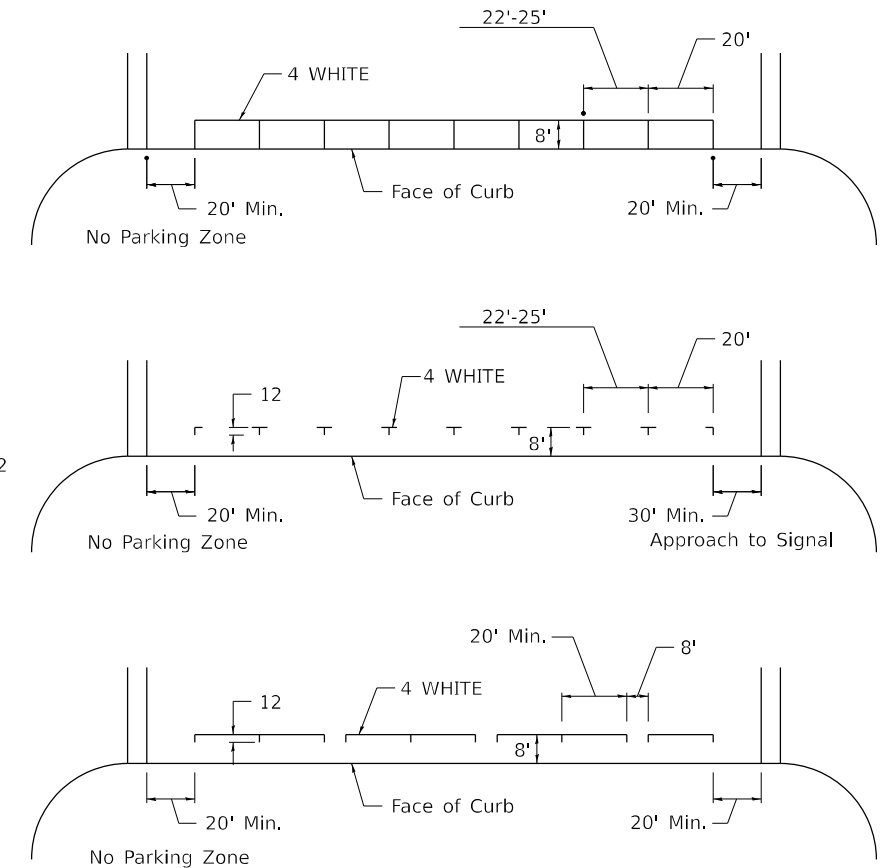
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

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

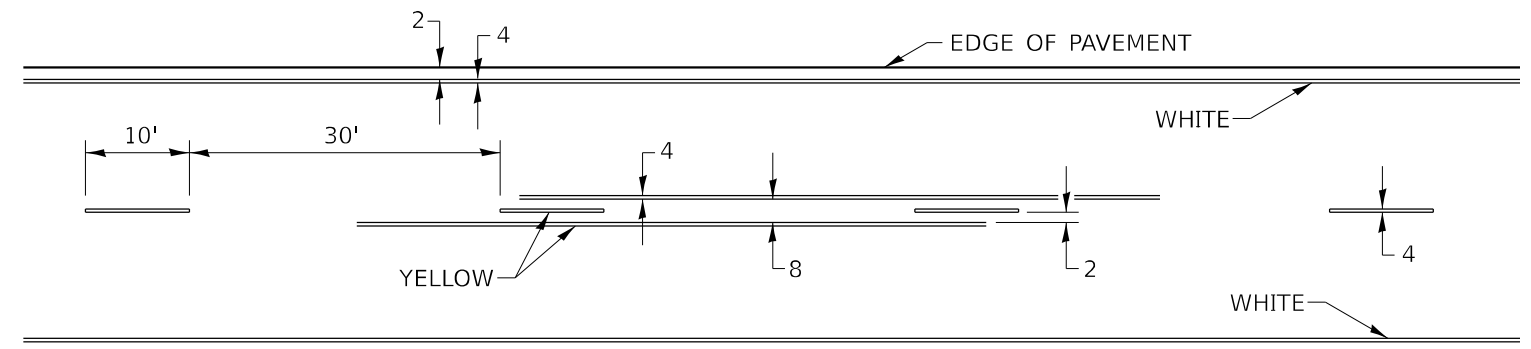
MULTI-LANE / UNDIVIDED & ONE WAY

(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



SYMBOLS

TYPICAL PAVEMENT MARKINGS SHEET 3 OF 3 41.1

MODEL: Unnamed (Rev. 41.1) 0.0.3 (Rev.4)
 FILE NAME: \\p01\proj\312023\312023\B301.PTB 2023 D2 - Quedad - Various Phase I\W2 - Con Create\CADD\DD Sheet\2023\312023\312023_Sheet3.dgn



USER NAME = rgoertz	DESIGNED -	REVISED - 6-27-14
PLOT SCALE = 0.16666633" / in.	DRAWN -	REVISED - 8-27-13
PLOT DATE = 1/29/2024	CHECKED -	REVISED - 11-28-12
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

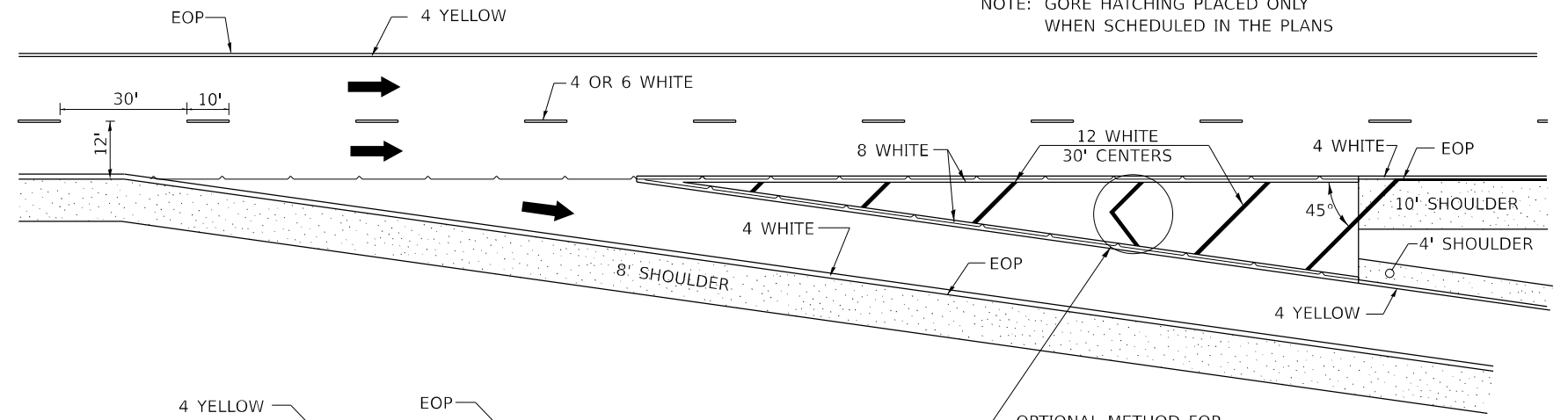
F.A.P. RTE. 316	SECTION (102-BR-4)BDR	COUNTY LEE	TOTAL SHEETS 48	SHEET NO. 46
CONTRACT NO. 64S30			ILLINOIS FED. AID PROJECT	

PAINING DETAILS

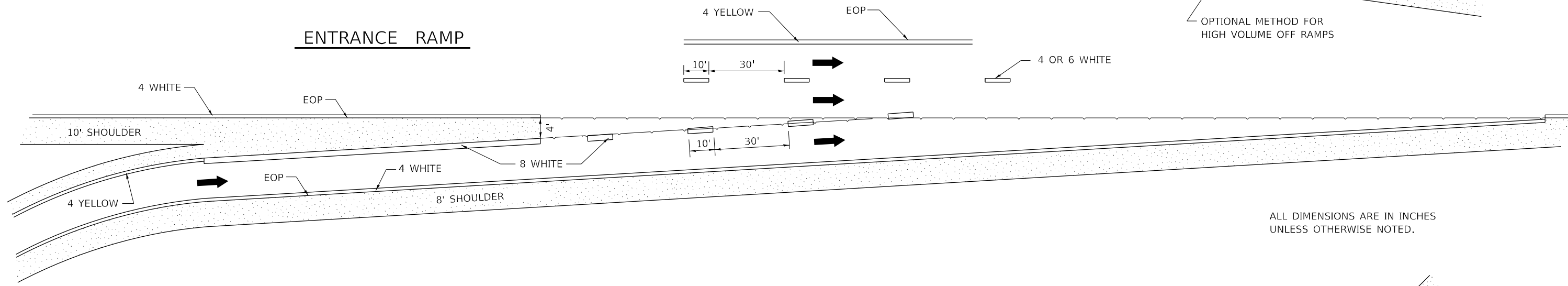
CENTERLINE SKIP DASH PAVEMENT MARKING WIDTH SHALL BE 4" WHEN THE POSTED SPEED LIMIT IS UNDER 40 MPH AND 6" WHEN THE POSTED SPEED LIMIT IS 40 MPH AND OVER.

EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS

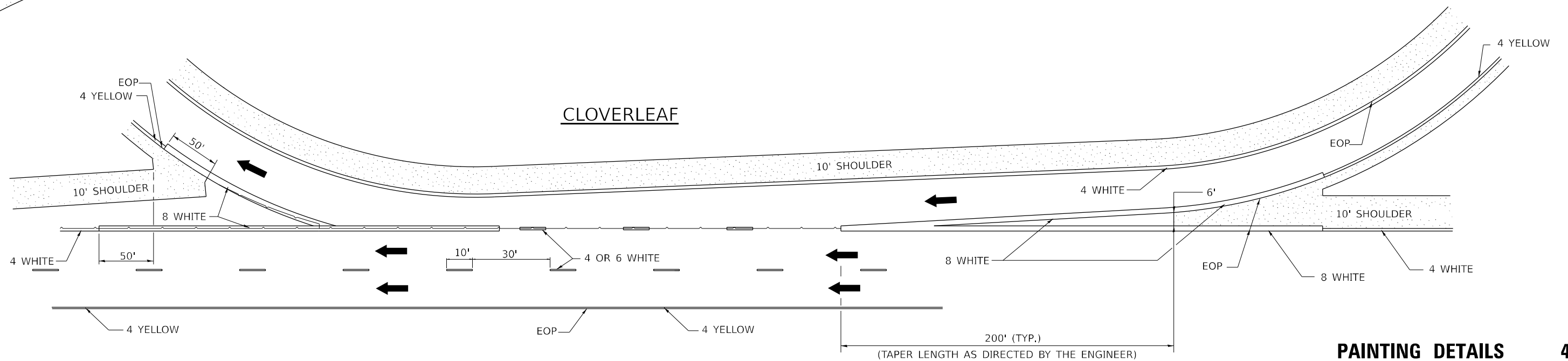


ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

CLOVERLEAF



PAINING DETAILS 44.1

MODEL: Unsaved (Rev: 44.1) OF: 1 (Sheet) FILE NAME: \\p01\projects\2023\20230328\BDR_PTB_202303_D2_Cloverleaf_Various_Phase_II\VO_2_Coon_Creek\CADD\CADD_Sheets\2023\2023-03-28_Standards.dgn



USER NAME = rgoertz	DESIGNED -	REVISED - 8-27-13
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED - 10-18-11
PLOT DATE = 1/29/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

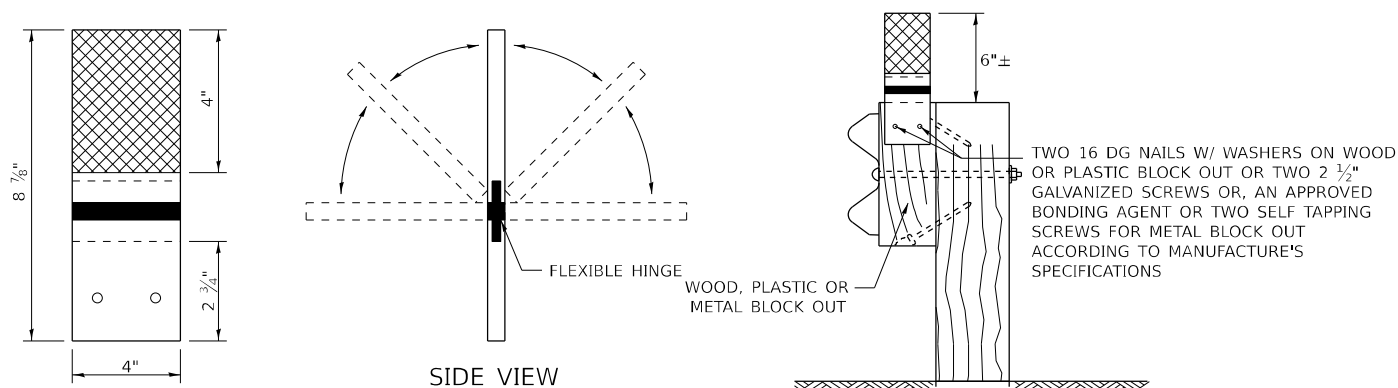
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(102-BR-4)BDR	LEE	48	47
CONTRACT NO. 64S30				
ILLINOIS FED. AID PROJECT				

GUARDRAIL AND BARRIER WALL REFLECTORS, TYPE C (SPECIAL)

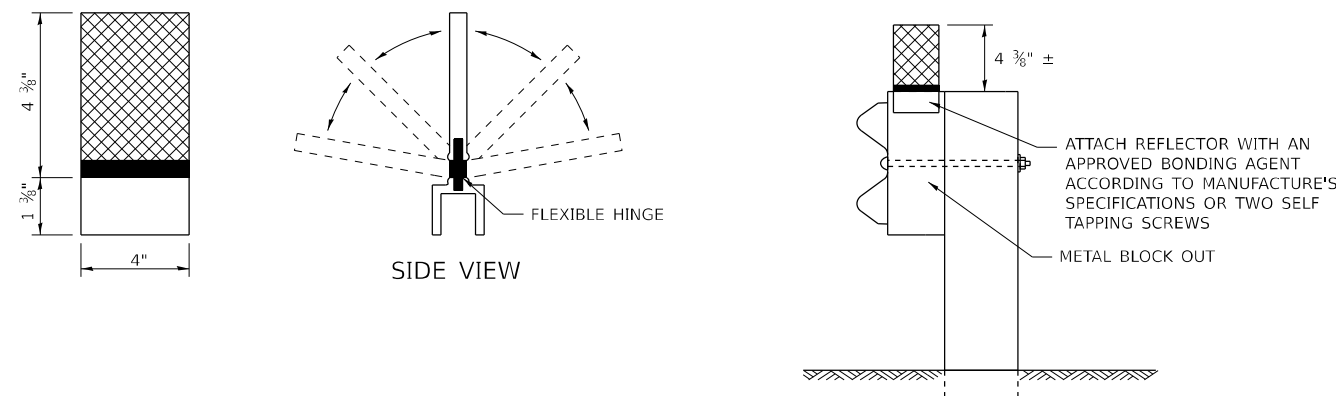


REFLECTORS SHALL BE MOUNTED DIRECTLY TO WOOD OR PLASTIC BLOCK OUTS.

REFLECTORS MOUNTED ON WOODEN OR PLASTIC BLOCK OUT SHALL BE MOUNTED USING TWO 16 DG NAILS AND TWO 3/16" WASHERS OR TWO 2 1/2" GALVANIZED SCREWS WITH WASHERS.

MOUNTED ON A WOOD OR PASTIC GUARDRAIL BLOCK OUT

REFLECTORS MOUNTED ON WOOD OR PLASTIC GUARDRAIL BLOCK OUT



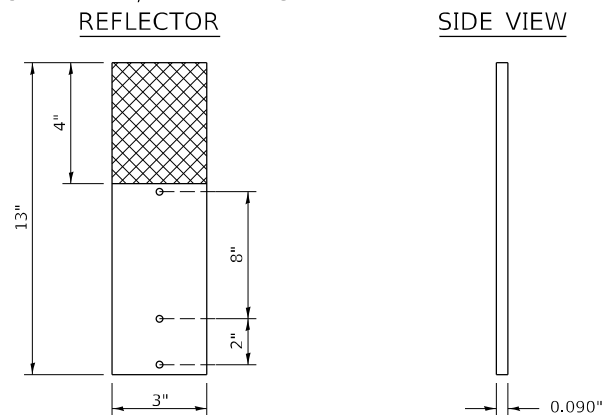
REFLECTORS SHALL BE MOUNTED DIRECTLY TO METAL BLOCK OUT.

REFLECTORS MOUNTED ON METAL BLOCK OUT SHALL BE MOUNTED USING AN APPROVED BONDING AGENT PER THE MANUFACTURE'S SPECIFICATIONS OR TWO SELF TAPPING GALVANIZED SCREWS WITH WASHERS.

MOUNTED ON A METAL GUARDRAIL BLOCK OUT

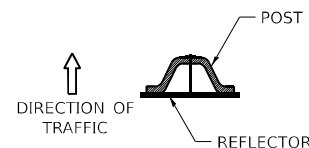
REFLECTORS MOUNTED ON METAL GUARDRAIL BLOCK OUT

STRAIGHT GUARDRAIL / DELINEATOR REFLECTOR



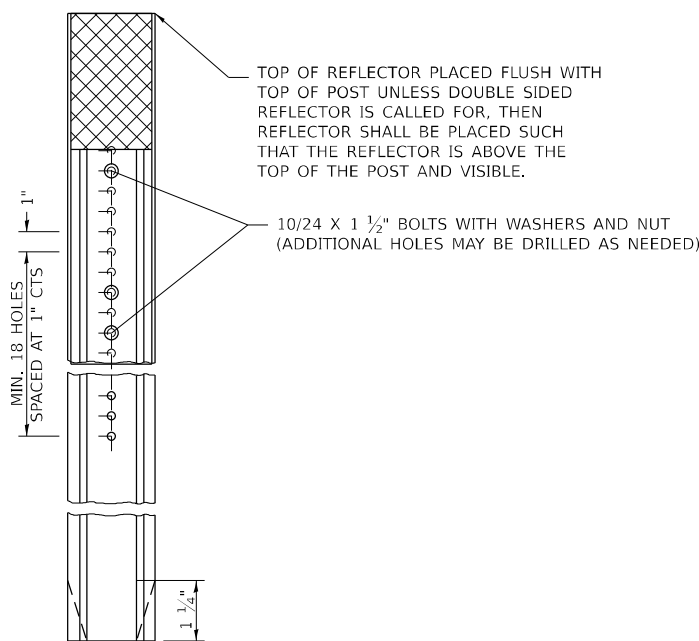
REFLECTORS MAY BE MOUNTED TO DELINEATOR POST USING TWO 10/24 X 1 1/2" BOLTS WITH NUTS AND WASHERS.

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

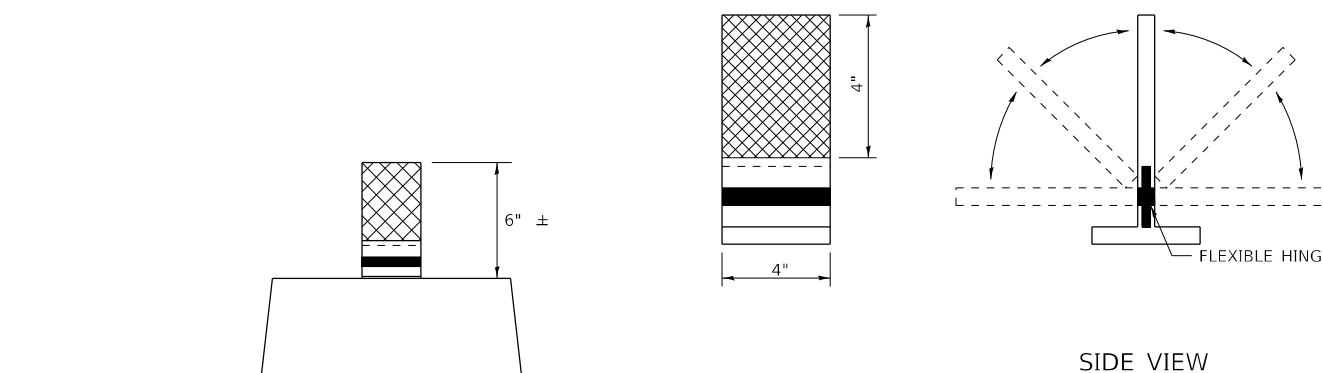


DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE REFLECTOR ATTACHECD AS SHOWN ABOVE.

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



MOUNTED ON A DELINEATOR POST



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/NAILS, 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 SHALL BE SINGLE SIDED CRYSTAL.

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

REFLECTORS MOUNTED ON BARRIER WALL

GUARDRAIL AND BARRIER WALL REFLECTORS, TYPE C (SPECIAL) 55.1

MODEL: Unsaved (Rev: 45) 1 of 1 (Rev: 45) FILE NAME: \\p01\proj\2023\20230321\BDR_PTB_2023 D2 - Ounadid - Various Phase II\IVO 2 - Cono Crea\CAD\CADD Sheet\BDR\BDR-55.1-402_Standard.dgn



USER NAME = rgoertz	DESIGNED -	REVISED - 4-27-23
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED - 6-21-21
PLOT DATE = 1/29/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(102-BR-4)BDR	LEE	48	48
CONTRACT NO. 64S30				
ILLINOIS FED. AID PROJECT				