

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310/313	[4HB;101VB-1]BR	WARREN	* 38	1
			ILLINOIS	CONTRACT NO. 68D86

\* 38 + 6 = 44 TOTAL SHEETS. ANYWHERE IN THIS CONTRACT 68D86 APPEARS, I SHALL READ 44 TOTAL SHEETS.

D-94-025-17

HIGHWAY STANDARDS:

280001-07	701411-09
606001-07	701423-10
606301-04	701426-09
630001-12	701901-08
630301-09	704001-08
631011-10	725001-01
631031-16	780001-05
701400-09	782001-01
701402-12	782006-01
	BLR 22-7

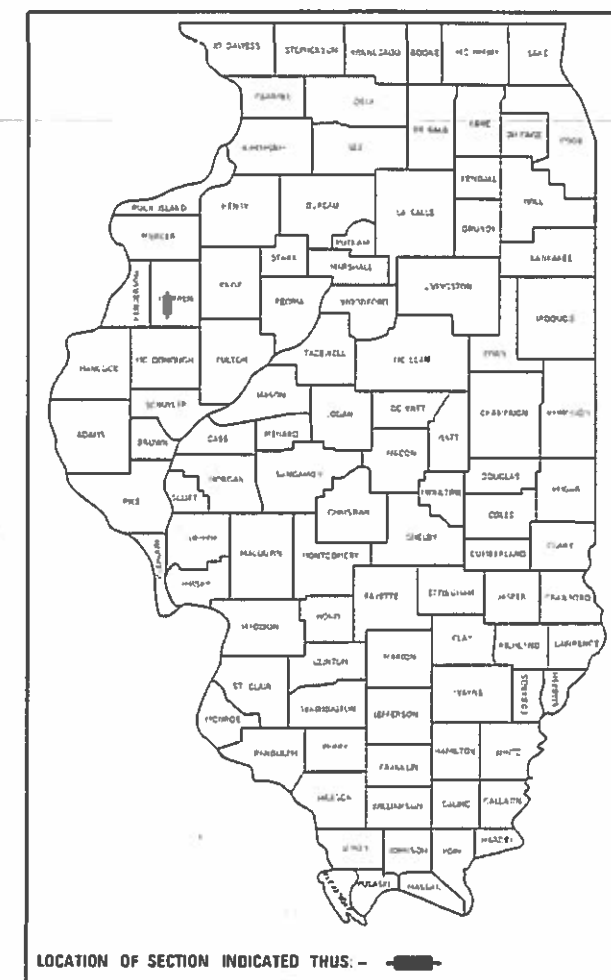
CADD STANDARDS:

406101-D4
630101-D4
780001-D4

PROPOSED  
HIGHWAY PLANS

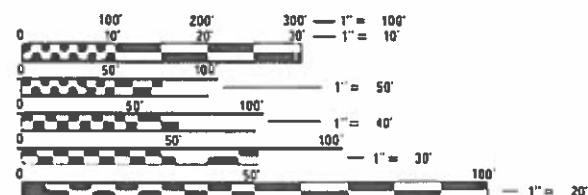
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SECTION [4HB;101VB-1]BR  
PROJECT NHPP -B30Z(288)  
BRIDGE REHABILITATION  
WARREN COUNTY

C-94-087-17



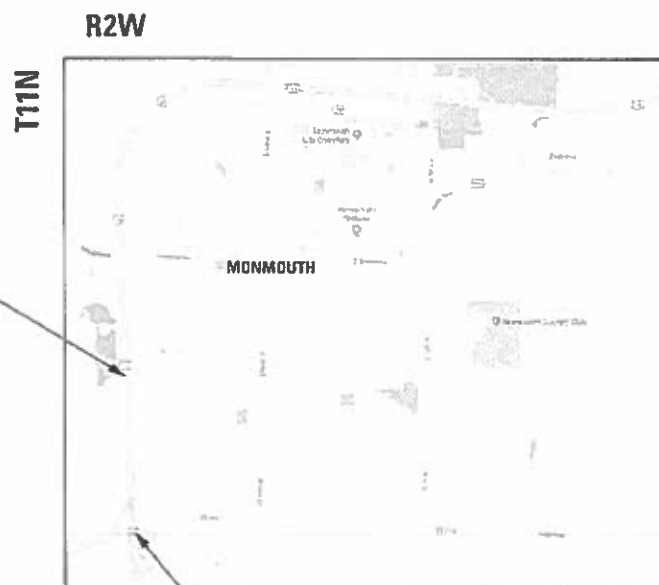
ADT = 7,750 (SN 094-0033), 2950 (SN 094-0041)  
MU = 20.00% (SN 094-0033), 18.57% (SN 094-0041)

SN 094-0033 (WB) STA. 293 + 04.33



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



SN 094-0041 STA. 348 + 91.43 (US 34)  
STA. 249 + 41.43 (US 67)

GROSS LENGTH = 1974 FT. = 0.37 MILE  
NET LENGTH = 1974 FT. = 0.37 MILE

PROJECT ENGINEER: CHRISTOPHER MAUSHARD 309-671-3453  
PROJECT MANAGER: MICHAEL HUDELSON 309-671-3466  
CONTRACT NO. 68D86  
CATALOG NO. 035510-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 24, 2019

*Paul A. James*  
REGIONAL ENGINEER

*Dee Le...*  
ENGINEER OF DESIGN AND ENVIRONMENT

*Paul A. James*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

**INDEX OF SHEETS**

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**GENERAL NOTES**

**AVAILABILITY OF ELECTRONIC FILES**

MicroStation and GEOPAK files of this project will be made available to the Contractor after contract award. If there is a conflict between the electronic files and the printed contract plans and documents, the printed contract plans and documents shall take precedence over the electronic files. The Contractor shall accept all risk associated with using the electronic files and shall hold the Department harmless for any errors or omissions in the electronic files and the data contained therein. Errors or delays resulting from the use of the electronic files by the Contractor shall not result in an extension of time for any interim or final completion date or shall not be considered cause for additional compensation. The Contractor shall not use, share, or distribute these electronic files except for the purpose of constructing this contract. Any claims by third parties due to use or errors shall be the responsibility of the Contractor. The Contractor shall include this disclaimer with the transfer of these electronic files to any other parties and shall include appropriate language binding them to similar responsibilities.

**ENVIRONMENTAL REVIEWS**

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

The required environmental resource documentation shall include the following:

- \* BDE Form 2289 (Cultural and Natural Resources Review of Borrow Areas)
- \* BDE Form 2290 (Waste/Use Area Review)
- \* A location map showing the size limits and location of the use area
- \* Color photographs depicting the use area
- \* Borrow Area Entry Agreement form – D4 PI0101

Prior to any waste materials being removed from the construction site the required environmental resource surveys shall be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

Please note that a minimum of four weeks shall be allowed for the District to obtain the required environmental clearances and six weeks for the required borrow site environmental clearances.

**CROSSING EXISTING STRUCTURES WITH EQUIPMENT**

The following structures, SN 094-0041 and SN 094-0033, may be crossed with the empty MTD. Any structures not listed above shall be verified by the resident prior to beginning work.

**BRIDGE OVERLAY NOTIFICATION**

After placement of the bridge deck overlay, the Resident Engineer shall notify the District Bridge Maintenance Engineer of the "as constructed" milling depth and overlay thickness for updating the Illinois Highway Information System.

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USER NAME = hudelsonme	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS &amp; GENERAL NOTES</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN -	REVISED -	*				[4HB;101VB-1]BR	WARREN	38	2	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		* 310/313		CONTRACT NO. 68DB6				
PLOT DATE = 10/24/2019	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			

## COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made.

**NO COMMITMENTS WERE MADE.**

## HOT-MIX ASPHALT MIXTURE REQUIREMENTS

Mixture Use(s):	Polymer Surface Course 1.5"	Polymer Binder Course Var.	Hot-Mix Asphalt Shoulders Var
<b>AC/PG:</b>	SBS or SBR 76-28	SBS or SBR 76-28	SBS or SBR 76-28
<b>Design Air Voids:</b>	4.0% @ N=70	4.0% @ N=70	4.0% @ N=70
<b>Mixture Composition: (Mixture Gradation)</b>	IL 9.5	IL 9.5	IL 9.5
<b>Friction Aggregate:</b>	Mixture D	Mixture D	Mixture D
<b>Quality Management Program:</b>	QCQA	QCQA	QCQA

Note: 1) Individual lift thickness of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal maximum aggregate size, unless otherwise approved by the Engineer.  
 2) For design purposes, mixture weight for all mixes is determined to be 112.0 lb/s.y./in., unless otherwise noted.  
 3) Sublot sizes for PFP and QCP mixes will be 1000 tons, unless otherwise agreed to by the Engineer and the paving contractor.

## POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

Surface Type	Residual Rate
<b>Milled (HMA or PCC)</b>	<b>0.08 lb /sq ft</b>
<b>Existing Pavement</b>	<b>0.08 lb /sq ft</b>
<b>Fog Coat (between lifts)</b>	<b>0.08 lb /sq ft</b>

## JOB SPECIFIC NOTES

– The existing bridge profile shall be determined and used to create the finish profile on the bridges.

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PLOT DATE = 10/24/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

### COMMITMENTS & MIX DESIGN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[4HB;101VB-1]BR	WARREN	38	3
* 310/313			CONTRACT NO. 68D86	
		ILLINOIS	FED. AID PROJECT	



### Luminaire Performance Table



#### Project

Date	Contract Number	Section Number	County
11/26/19	68D86		Warren
Marked Route Number		Municipality	
US 67 & US 34		MONMOUTH	

#### Roadway

Lane Width	# of Lanes	Median Width	I.E.S. Surface Classification	Q-Zero Value
12 FT	2	N/A	R3	0.07

#### Structure

Mounting Height	Arm Length	Set-Back	Number of Luminaires (Highmast & Sign Lighting Only)
45	N/A	30	N/A

#### Luminaire

Description	I.E.S. Lateral Distribution	I.E.S. Vertical Distribution	
LUMINAIRE, LED, ROADWAY, OUTPUT H	TYPE III	MEDIUM	
Total Light Loss Factor (LLF)	B-U-G Rating	Shields	Dimming Protocol
0.684	U = 0	N/A	0 - 10V

#### Layout

Spacing (to Nearest 5 ft)	Configuration (Opposite, Staggered, 1 Sided, or Median)
290	SINGLE SIDED

#### Performance

Average Illuminance, $E_{AVE}$ (fc)	Uniformity Ratio, $E_{AVE}/E_{MIN}$		
0.6	3.0		
Average Luminance, $L_{AVE}$ (cd/m <sup>2</sup> )	Uniformity Ratio, $L_{AVE}/L_{MIN}$	Uniformity Ratio, $L_{MAX}/L_{MIN}$	Veiling Luminance Ratio, $L_v/L_{AVE}$
N/A	N/A	N/A	0.4

#### Light Trespass

Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, $E_H$	Max. Vertical Illuminance at ROW, $E_v$
N/A	N/A	N/A

#### Notes

- Set-Back is from Edge of Pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire.
- Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
- Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95.
- Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

Calculations are to be performed with 2 lanes in one direction only.

Printed 11/26/19

BDE 5630 (04/10/19)

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				0013	
				ROADWAY	
				WARREN CO	
				URBAN	
80 FD 20 ST					
28000400	PERIMETER EROSION BARRIER	FOOT	2315	2315	
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	2244	2244	
40600982	HOT - MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1602	1602	
40600990	TEMPORARY RAMP	SQ YD	934	934	
40603208	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	160	160	
40604162	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	110	110	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	320	320	
48203100	HOT - MIX ASPHALT SHOULDERS	TON	144	144	
50102400	CONCRETE REMOVAL	CU YD	16	16	
50157300	PROTECTIVE SHIELD	SQ YD	322	322	
50300225	CONCRETE STRUCTURES	CU YD	9.1	9.1	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	16	16	
50300260	BRIDGE DECK GROOVING	SQ YD	2167	2167	
50300300	PROTECTIVE COAT	SQ YD	2312	2312	

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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -			•	[4HB;101VB-1]BR	WARREN	38	5
PLOT DATE = 10/23/2019	CHECKED -	REVISED -			CONTRACT NO. 68086				
	DATE -	REVISED -			• 313 / 310 [ILLINOIS] FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				0013	
				ROADWAY	
				WARREN CO	
				URBAN	
				80 FD 20 ST	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4020	4020	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	154	154	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	20	20	
52100520	ANCHOR BOLTS, 1"	EACH	40	40	
60260100	INLETS TO BE ADJUSTED	EACH	8	8	
60608600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	FOOT	320	320	
60618320	CONCRETE MEDIAN SURFACE, 6 INCH	SQ FT	1600	1600	
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	1988	1988	
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2	
* 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2	2	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	2184	2184	

\*= SPECIALTY ITEM

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[4HB101VB-1]BR	WARREN	38	6
CONTRACT NO. 68086				

• 313 / 310 ILLINOIS FED. AID PROJECT

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				WARREN CO	URBAN
				0013	
				ROADWAY	
				WARREN CO	
				URBAN	
				80 FD 20 ST	
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	680	680	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1	1	
70100325	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423	EACH	2	2	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1	1	
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	2280	2280	
70107007	PAVEMENT MARKING BLACKOUT TAPE, 7"	FOOT	1125	1125	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	226	226	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	154	154	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	6223	6223	
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	13684	13684	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1171	1171	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1171	1171	

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[4HB101VB-1]BR	WARREN	38	7
<b>CONTRACT NO. 68086</b>				
• 313 / 310		ILLINOIS FED. AID PROJECT		

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				0013	
				ROADWAY	
				WARREN CO	
				URBAN	
80 FD 20 ST					
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	3	3	
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	3	3	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2	
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	31.2	31.2	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2402	2402	
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	112	112	
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	140	140	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	10	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	26	26	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	104	104	
* 78200020	CURB REFLECTORS	EACH	12	12	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	10	10	
X0326899	SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	1	1	
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	1600	1600	
X5030530	FLOOR DRAIN EXTENSION	EACH	12	12	

\*= SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[4HB101VB-1]BR	WARREN	38	8
			<b>CONTRACT NO. 68086</b>	
• 313 / 310		ILLINOIS FED. AID PROJECT		



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				ROADWAY	
				WARREN CO	
				URBAN	
80 FD 20 ST					
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1	
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	562	562	
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	20	20	
Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	2312	2312	
* Z0007114	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES	L SUM	1	1	
* Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	LSUM	1	1	
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	2312	2312	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	42	42	
Z0034105	MATERIAL TRANSFER DEVICE	TON	414	414	
Z0065730	SLOPE WALL SLURRY PUMPING	CU YD	10	10	
* 82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	18	18	
* 82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240 VOLT, 60 AMP	EACH	1.0	1.0	
83800650	BREAKAWAY DEVICE COUPLING, WITH STAINLESS STEEL SCREEN	EACH	64	64	
∅ Z0076600	TRAINEES	HOUR	1000	1000	
∅ Z0076604	TRAINEES - TRAINING PROGRAM GRADUATES	HOUR	1000	1000	

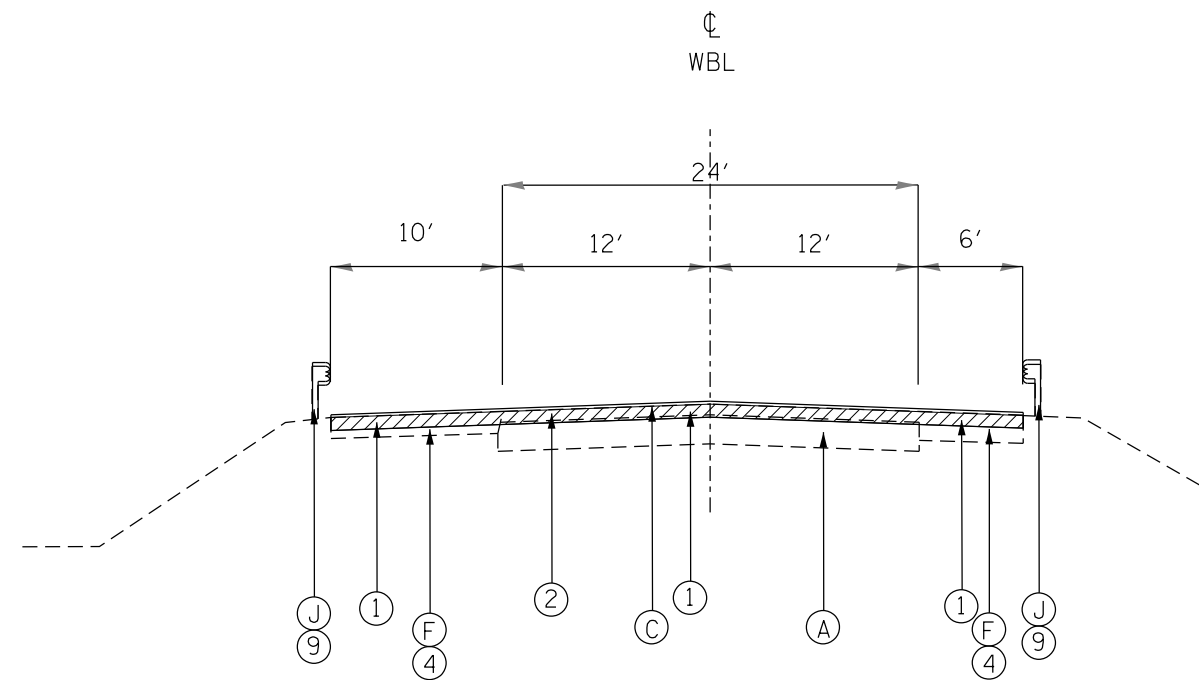
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*	[4HB101VB-1]BR	WARREN	38	9
CONTRACT NO. 68086				
• 313 / 310		ILLINOIS FED. AID PROJECT		



TYPICAL SECTION #1  
WB US 34  
N & S OF SN 094-0033

EXISTING LEGEND

- (A) BITUMINOUS CONCRETE PAVEMENT, 11.5"
- (B) BITUMINOUS CONCRETE PAVEMENT, 11.75"
- (C) HMA OVERLAY 1.5"
- (D) HMA OVERLAY 3"
- (E) HMA SHOULDERS 8"
- (F) HMA SHOULDERS, 9.25"
- (G) COMB CONC CURB AND GUTTER M6.06
- (H) CONCRETE MEDIAN SURFACE
- (I) SAND FILL FA-1
- (J) GUARDRAIL
- (K) SUB-SURFACE DRAIN 4"

PROPOSED LEGEND

- (1) HMA SURFACE REMOVAL - BUTT JOINT
- (2) POLYMERIZED HMA BINDER COURSE, IL-9.5, N70, VARIABLE DEPTH
- (3) POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1.5"
- (4) HMA SHOULDERS, 1.5"
- (5) HMA SHOULDERS, VARIABLE DEPTH
- (6) CONCRETE MEDIAN SURFACE REMOVAL
- (7) CONCRETE MEDIAN SURFACE, 6 INCH
- (8) SAND FILL FA-1
- (9) STEEL PLATE BEAM GUARDRAIL / TRAFFIC BARRIER TERMINAL
- (10) COMB. CONC. CURB & GUTTER M6.06

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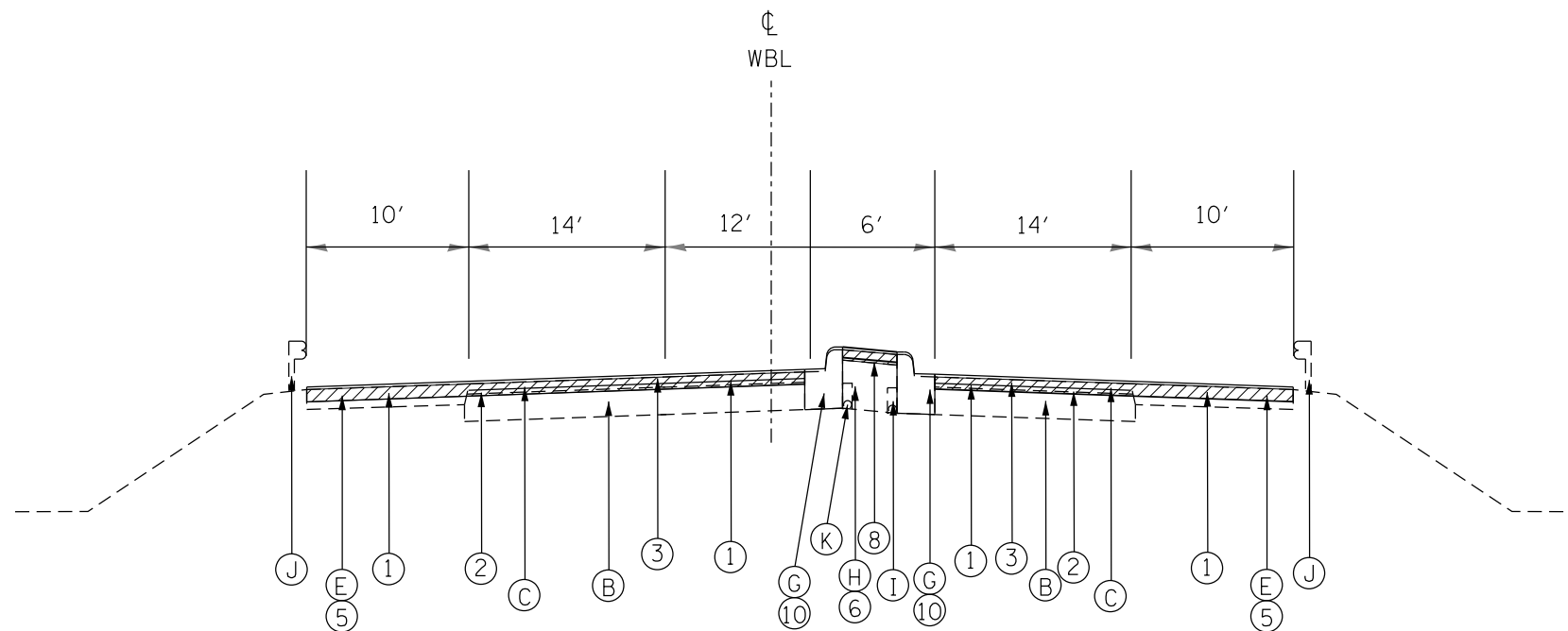
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PLOT DATE = 10/23/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[4HB;101VB-1]BR	WARREN	38	10
			CONTRACT NO. 68D86	
		ILLINOIS	FED. AID PROJECT	



TYPICAL SECTION #2  
US 34  
W OF SN 094-0041

EXISTING LEGEND

- (A) BITUMINOUS CONCRETE PAVEMENT, 11.5"
- (B) BITUMINOUS CONCRETE PAVEMENT, 11.75"
- (C) HMA OVERLAY 1.5"
- (D) HMA OVERLAY 3"
- (E) HMA SHOULDERS 8"
- (F) HMA SHOULDERS, 9.25"
- (G) COMB CONC CURB AND GUTTER M6.06
- (H) CONCRETE MEDIAN SURFACE
- (I) SAND FILL FA-1
- (J) GUARDRAIL
- (K) SUB-SURFACE DRAIN 4"

PROPOSED LEGEND

- (1) HMA SURFACE REMOVAL - BUTT JOINT
- (2) POLYMERIZED HMA BINDER COURSE, IL-9.5, N70, VARIABLE DEPTH
- (3) POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1.5"
- (4) HMA SHOULDERS, 1.5"
- (5) HMA SHOULDERS, VARIABLE DEPTH
- (6) CONCRETE MEDIAN SURFACE REMOVAL
- (7) CONCRETE MEDIAN SURFACE, 6 INCH
- (8) SAND FILL FA-1
- (9) STEEL PLATE BEAM GUARDRAIL / TRAFFIC BARRIER TERMINAL
- (10) COMB. CONC. CURB & GUTTER M6.06

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 PROJECT: 68D86  
 SHEET: 11  
 DATE: 10/23/2019

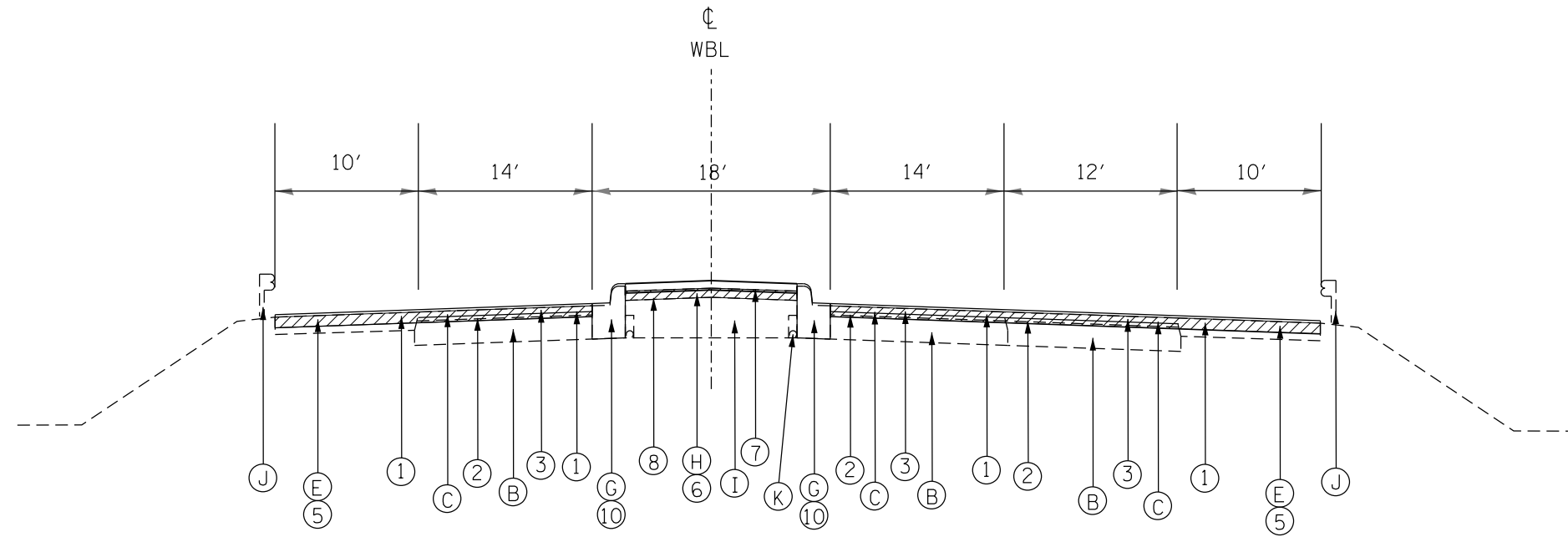
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PLOT DATE = 10/23/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[4HB;101VB-1]BR	WARREN	38	11
CONTRACT NO. 68D86				
ILLINOIS FED. AID PROJECT				



TYPICAL SECTION #3  
180TH AVE  
E OF SN 094-0041

EXISTING LEGEND

- (A) BITUMINOUS CONCRETE PAVEMENT, 11.5"
- (B) BITUMINOUS CONCRETE PAVEMENT, 11.75"
- (C) HMA OVERLAY 1.5"
- (D) HMA OVERLAY 3"
- (E) HMA SHOULDERS 8"
- (F) HMA SHOULDERS, 9.25"
- (G) COMB CONC CURB AND GUTTER M6.06
- (H) CONCRETE MEDIAN SURFACE
- (I) SAND FILL FA-1
- (J) GUARDRAIL
- (K) SUB-SURFACE DRAIN 4"

PROPOSED LEGEND

- (1) HMA SURFACE REMOVAL - BUTT JOINT
- (2) POLYMERIZED HMA BINDER COURSE, IL-9.5, N70, VARIABLE DEPTH
- (3) POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1.5"
- (4) HMA SHOULDERS, 1.5"
- (5) HMA SHOULDERS, VARIABLE DEPTH
- (6) CONCRETE MEDIAN SURFACE REMOVAL
- (7) CONCRETE MEDIAN SURFACE, 6 INCH
- (8) SAND FILL FA-1
- (9) STEEL PLATE BEAM GUARDRAIL / TRAFFIC BARRIER TERMINAL
- (10) COMB. CONC. CURB & GUTTER M6.06

MODEL: Default  
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 PROJECT: 10/23/2019 10:00:00 AM  
 USER: hudelsonme

USER NAME = hudelsonme	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/23/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[4HB;101VB-1]BR	WARREN	38	12
CONTRACT NO. 68D86				
ILLINOIS FED. AID PROJECT				

RESURFACING & MEDIAN TABLE													
LOCATION	HMA SURFACE REMOVAL BUTT JT	TEMPORARY RAMP	POLY HMA BNDR CSE IL9.5 N70 VAR	POLY HMA SURF CSE IL 9.5 MIX "D" N70 1.5"	POLY BIT MATERIALS (TACK COAT)	HMA SHOULDERS VAR	MATERIAL TRANSFER DEVICE	SHOULDER RUMBLE STRIPS 16"	CONCRETE CURB & GUTTER REMOVAL	COMB CONC CURB & GUTTER TY -6.06	CONCRETE MEDIAN SURFACE REMOVAL	CONCRETE MEDIAN SURFACE 6"	CURB REFLECTORS
	SQ YD	SQ YD	TON	TON	POUND	TON	TON	FOOT	FOOT	FOOT	SQ FT	SQ FT	EACH
094-0033 North Side	267	267	0	25	352	17	42	180	0	0	0	0	0
094-0033 South Side	267	267	0	25	352	17	42	180	0	0	0	0	0
094-0041 West Side	534	200	80	30	770	55	165	160	160	160	320	320	6
094-0041 East Side	534	200	80	30	770	55	165	160	160	160	1280	1280	6
Totals	1602	934	160	110	2244	144	414	680	320	320	1600	1600	12

TRAFFIC CONTROL AND STAGING										
LOCATION	TRAFFIC CONTROL & PROTECTION STD 701402	TRAFFIC CONTROL & PROTECTION STD 701411	TRAFFIC CONTROL & PROTECTION STD 701423	TRAFFIC CONTROL & PROTECTION (SPECIAL)	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	BARRIER WALL REFLECTORS TYPE C	IMPACT ATTENUATORS TEMPORARY (NON-REDIRECT, NARROW) TL 3	IMPACT ATTENUATORS RELOCATE (NON-REDIRECT, NARROW) TL 3	
	EACH	EACH	EACH	L SUM	FOOT	FOOT	EACH	EACH	EACH	
WB US 34 & SN 094-0033 - STAGE 1	0	0	1	0	461	0	40	1	0	
WB US 34 & SN 094-0033 - STAGE 2					0	461		0	1	
094-0041 AND DETOUR ROUTES	0	0	0	1	0	0	0	0	0	
NB US 67 UNDER SN 094-0041 -STAGE 1	1	1	0	0	355	0	32	1	0	
NB US 67 UNDER SN 094-0041 -STAGE 2					0	355		0	1	
SB US 67 UNDER SN 094-0041 -STAGE 1	0	0	1	0	355	0	32	1	0	
SB US 67 UNDER SN 094-0041 -STAGE 2					0	355		0	1	
TOTALS	1	1	2	1	1171	1171	104	3	3	

PAVEMENT MARKINGS - STAGING AND FINAL												
LOCATION	PAVEMENT MARKING BLACKOUT TAPE, 5"	PAVEMENT MARKING BLACKOUT TAPE, 7"	PAVEMENT MARKING TAPE 4"	SHORT TERM PAVEMENT MARKINGS	SHORT TERM PVT MKG REMOVAL	RAISED REFLECTIVE PAVEMENT MARKERS	RAISED REFL PVT MARKER REMOVAL	MODIFIED URETHANE PVT MKG LINE 4"	MODIFIED URETHANE PVT MKG LINE 6"	MODIFIED URETHANE PVT MKG LINE 8"	MODIFIED URETHANE PVT MKG LTR SYM	
	FOOT	FOOT	FOOT	FOOT	SQ FT	EACH	EACH	FOOT	FOOT	FOOT	SQ FT	
WB US 34 & SN 094-0033 - STAGE 1	430	375	2422	0	1206	0	0	0	0	0	0	
WB US 34 & SN 094-0033 - STAGE 2	430	0	2422	0	987	0	0	0	0	0	0	
WB US 34 & SN 094-0033 - FINAL	0	0	0	85	29	6	6	890	112	0	0	
US 34 / 180TH AVE / SN 094-0041 - FINAL	0	0	0	69	23	4	4	1512	0	140	31.2	
NB US 67 UNDER SN 094-0041 -STAGE 1	355	375	2210	0	1104	0	0	0	0	0	0	
NB US 67 UNDER SN 094-0041 -STAGE 2	355	0	2210	0	885	0	0	0	0	0	0	
SB US 67 UNDER SN 094-0041 -STAGE 1	355	375	2210	0	1104	0	0	0	0	0	0	
SB US 67 UNDER SN 094-0041 -STAGE 2	355	0	2210	0	885	0	0	0	0	0	0	
TOTALS	2280	1125	13684	154	6223	10	10	2402	112	140	31.2	

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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/23/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[4HB;101VB-1]BR	WARREN	38	13
* 310/313			CONTRACT NO. 68D86	
ILLINOIS			FED. AID PROJECT	

INLETS TO BE ADJUSTED	
LOCATION	EACH
SN 094-0033 NW APPROACH SHLDR	1
SN 094-0033 NE APPROACH SHLDR	1
SN 094-0033 SW APPROACH SHLDR	1
SN 094-0033 SE APPROACH SHLDR	1
SN 094-0041 NW APPROACH SHLDR	1
SN 094-0041 NE APPROACH SHLDR	1
SN 094-0041 SW APPROACH SHLDR	1
SN 094-0041 SE APPROACH SHLDR	1
TOTAL	8

ENGINEER'S FIELD OFFICE, TYPE A	
LOCATION	CAL MO
JOBSITE	6
TOTAL	6

MOBILIZATION	
LOCATION	L SUM
JOBSITE	1
TOTAL	1

CHANGEABLE MESSAGE SIGN	
LOCATION	CAL DA
EB US 34	185
180th Ave	7
NB US 67	7
SB US 67 / WB US 34	7
Ramps (4 signs x 5 days each)	20
TOTAL	226

Note: There will be a total of eight (8) signs

SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)	
LOCATION	L SUM
IL 94 / IL 164 SIGN JUST S OF INTERSECTION OF IL 94 AND IL 164	1
TOTAL	1

THE BEACON SHALL BE INSTALLED BEFORE THE CLOSURE OF 094-0041.  
THE BEACON IS PERMANENT AND SHALL NOT BE REMOVED WHEN THE  
DETOUR SIGNING IS REMOVED

GUARDRAIL AND EROSION CONTROL TABLE (SN 094-0033)										
LOCATION	GUARDRAIL REMOVAL	PERIMETER EROSION BARRIER	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER BARRIER TERMINAL TYPE 2	TRAFFIC BARRIER BARRIER TERMINAL TYPE 5	TRAFFIC BARRIER BARRIER TERMINAL TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER DIRECT APPLIED	GUARDRAIL REFLECTORS TYPE A	GUARDRAIL AGGREGATE EROSION CONTROL
	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	TON
094-0033 SOUTHEAST QUADRANT	418	451	400	1	1	0	0	0	5	108
094-0033 SOUTHWEST QUADRANT	418	451	400	1	1	0	0	0	5	108
094-0033 NORTHWEST QUADRANT	993	1025	912.5	0	0	1	1	1	12	254
094-0033 NORTHEAST QUADRANT	355	388	275	0	0	1	1	1	4	92
TOTALS	2184	2315	1987.5	2	2	2	2	2	26	562

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PLOT DATE = 12/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[4HB;101VB-1]BR	WARREN	38	14
* 310/313			CONTRACT NO. 68DB6	
		ILLINOIS	FED. AID PROJECT	

US 34

SN 094-0033



US 34 WB / US 67 SB  
US 34 EB / US 67 NB

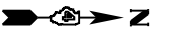
US 67 SB  
US 67 NB

SN 094-0041

180TH AVE

11TH AVE

BNSF RR



NOT TO SCALE

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PLOT DATE = 10/24/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROJECT LOCATION**

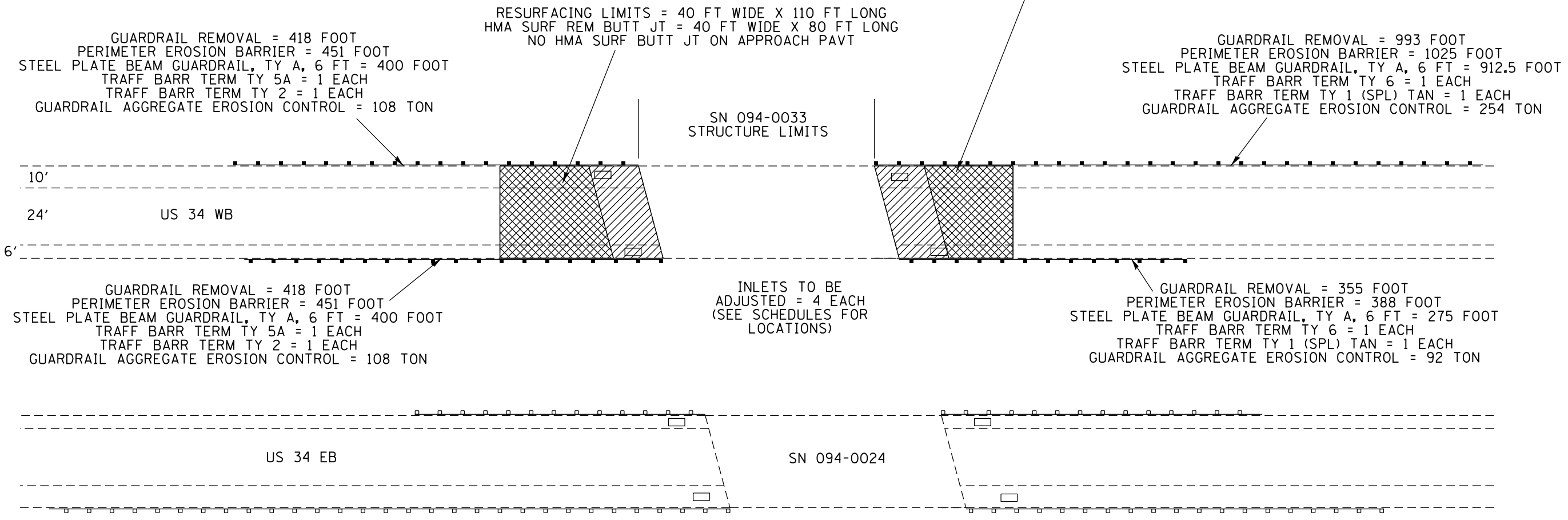
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[4HB;101VB-1]BR	WARREN	38	15
CONTRACT NO. 68D86				
ILLINOIS FED. AID PROJECT				

SEE STRUCTURE SHEETS  
FOR WORK ON 094-0033

NO WORK TO BE  
DONE ON 094-0024

RESURFACING LIMITS = 40 FT WIDE X 110 FT LONG  
HMA SURF REM BUTT JT = 40 FT WIDE X 80 FT LONG  
NO HMA SURF BUTT JT ON APPROACH PAVT



GUARDRAIL REMOVAL = 418 FOOT  
PERIMETER EROSION BARRIER = 451 FOOT  
STEEL PLATE BEAM GUARDRAIL, TY A, 6 FT = 400 FOOT  
TRAFF BARR TERM TY 5A = 1 EACH  
TRAFF BARR TERM TY 2 = 1 EACH  
GUARDRAIL AGGREGATE EROSION CONTROL = 108 TON

RESURFACING LIMITS = 40 FT WIDE X 110 FT LONG  
HMA SURF REM BUTT JT = 40 FT WIDE X 80 FT LONG  
NO HMA SURF BUTT JT ON APPROACH PAVT

SN 094-0033  
STRUCTURE LIMITS

GUARDRAIL REMOVAL = 993 FOOT  
PERIMETER EROSION BARRIER = 1025 FOOT  
STEEL PLATE BEAM GUARDRAIL, TY A, 6 FT = 912.5 FOOT  
TRAFF BARR TERM TY 6 = 1 EACH  
TRAFF BARR TERM TY 1 (SPL) TAN = 1 EACH  
GUARDRAIL AGGREGATE EROSION CONTROL = 254 TON

GUARDRAIL REMOVAL = 418 FOOT  
PERIMETER EROSION BARRIER = 451 FOOT  
STEEL PLATE BEAM GUARDRAIL, TY A, 6 FT = 400 FOOT  
TRAFF BARR TERM TY 5A = 1 EACH  
TRAFF BARR TERM TY 2 = 1 EACH  
GUARDRAIL AGGREGATE EROSION CONTROL = 108 TON

INLETS TO BE  
ADJUSTED = 4 EACH  
(SEE SCHEDULES FOR  
LOCATIONS)

GUARDRAIL REMOVAL = 355 FOOT  
PERIMETER EROSION BARRIER = 388 FOOT  
STEEL PLATE BEAM GUARDRAIL, TY A, 6 FT = 275 FOOT  
TRAFF BARR TERM TY 6 = 1 EACH  
TRAFF BARR TERM TY 1 (SPL) TAN = 1 EACH  
GUARDRAIL AGGREGATE EROSION CONTROL = 92 TON

US 34 EB

SN 094-0024

- XXXXXXXXXX CURB & GUTTER REMOVAL / COMB. CONC. CURB & GUTTER M6.06
- HMA SURFACE REMOVAL - BUTT JOINT
- RESURFACING LIMITS
- CONCRETE MEDIAN SURFACE REMOVAL / CONCRETE MEDIAN SURFACE, 6 INCH

NOT TO SCALE

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PLOT DATE = 10/23/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED IMPROVEMENTS  
S.N. 094-0033**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[4HB;101VB-1]BR	WARREN	38	16
CONTRACT NO. 68DB6				
ILLINOIS FED. AID PROJECT				



SEE STRUCTURE SHEETS  
FOR WORK ON 094-0041

RESURFACING LIMITS = 24 FT WIDE X 80 FT LONG  
HMA SURF REM BUTT JT = 24 FT WIDE X 80 FT LONG  
(HMA SURF REM BUTT JT IS FOR SURFACE AND BINDER)

APPROACHES HAVE SETTLED RELATIVE TO THE BRIDGE.  
HMA BINDER COURSE AND STRINGLINE SHALL BE USED  
TO BUILD UP ROADWAY BEFORE HMA SURFACE IS PLACED.

RESURFACING LIMITS = 36 FT WIDE X 80 FT LONG  
HMA SURF REM BUTT JT = 36 FT WIDE X 80 FT LONG

MEDIAN SURFACE REMOVAL = 1280 FT  
CONCRETE MEDIAN SURFACE 6" = 1280 FT  
LT CURB & GUTTER REMOVAL = 80 FT  
LT COMB. CONC. CURB & GUTTER M6.06 = 80 FT  
RT CURB & GUTTER REMOVAL = 80 FT  
RT COMB. CONC. CURB & GUTTER M6.06 = 80 FT

SN 094-0041  
STRUCTURE LIMITS

US 34

180TH AVE




MEDIAN SURFACE REMOVAL = 320 FT  
CONCRETE MEDIAN SURFACE 6" = 320 FT  
LT CURB & GUTTER REMOVAL = 80 FT  
LT COMB. CONC. CURB & GUTTER M6.06 = 80 FT  
RT CURB & GUTTER REMOVAL = 80 FT  
RT COMB. CONC. CURB & GUTTER M6.06 = 80 FT

INLETS TO BE  
ADJUSTED = 4 EACH  
(SEE SCHEDULES FOR  
LOCATIONS)

RESURFACING LIMITS = 36 FT WIDE X 80 FT LONG  
HMA SURF REM BUTT JT = 36 FT WIDE X 80 FT LONG

RESURFACING LIMITS = 24 FT WIDE X 80 FT LONG  
HMA SURF REM BUTT JT = 24 FT WIDE X 80 FT LONG  
(HMA SURF REM BUTT JT IS FOR SURFACE AND BINDER)

APPROACHES HAVE SETTLED RELATIVE TO THE BRIDGE.  
HMA BINDER COURSE AND STRINGLINE SHALL BE USED  
TO BUILD UP ROADWAY BEFORE HMA SURFACE IS PLACED.

- XXXXXXXXXX CURB & GUTTER REMOVAL / COMB. CONC. CURB & GUTTER M6.06
-  HMA SURFACE REMOVAL - BUTT JOINT
-  RESURFACING LIMITS
-  CONCRETE MEDIAN SURFACE REMOVAL / CONCRETE MEDIAN SURFACE, 6 INCH



NOT TO SCALE

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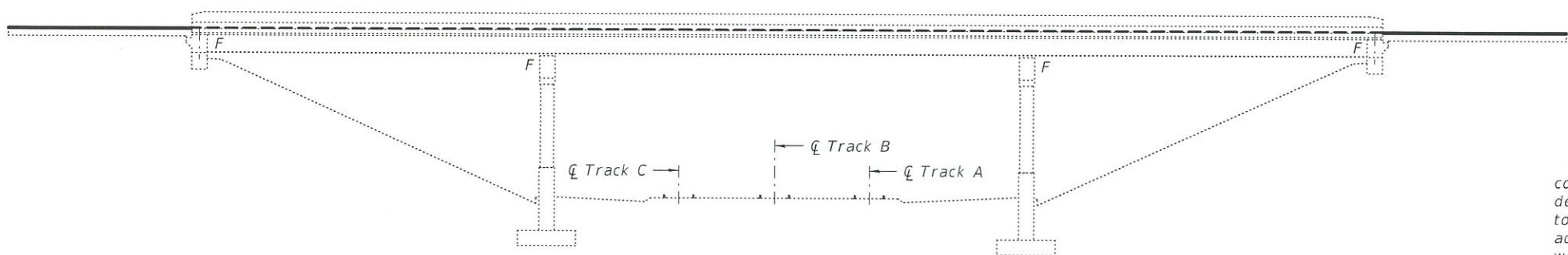
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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/24/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED IMPROVEMENTS  
S.N. 094-0041**

SCALE: SHEET OF SHEETS STA. TO STA.

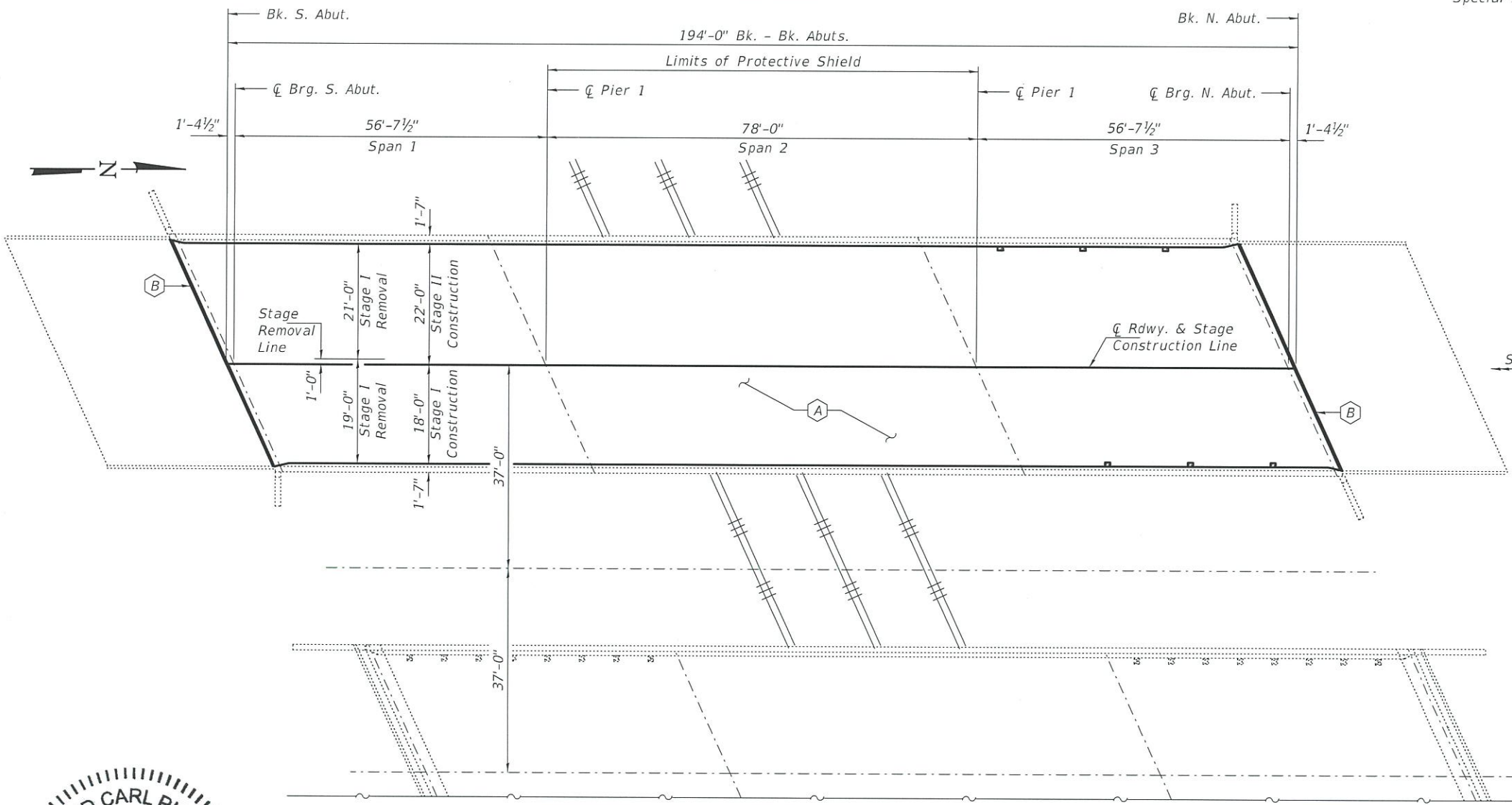
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[4HB;101VB-1]BR	WARREN	38	17
* 310/313			CONTRACT NO. 68D86	
		ILLINOIS	FED. AID PROJECT	



ELEVATION

**GENERAL NOTES**

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

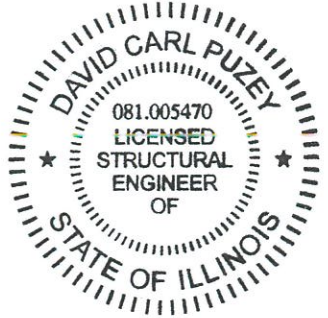


PLAN

- (A) - Install a new 2 1/4" Latex Overlay on the existing deck. (See sheet 2 of 2 for details.)
- (B) - Installation of Polymer Nosing. (See sheet 2 of 2 for details.)

SN 094-0033 (SB)

SN 094-0024 (NB)



**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Protective Coat	Sq. Yd.	862
Bridge Deck Scarification, 3/4"	Sq. Yd.	862
Bridge Deck Latex Concrete Overlay, 2 1/4"	Sq. Yd.	862
Bridge Deck Grooving	Sq. Yd.	814
Protective Shield	Sq. Yd.	322

\* On new concrete overlay only.

EXPIRES 11-30-2020

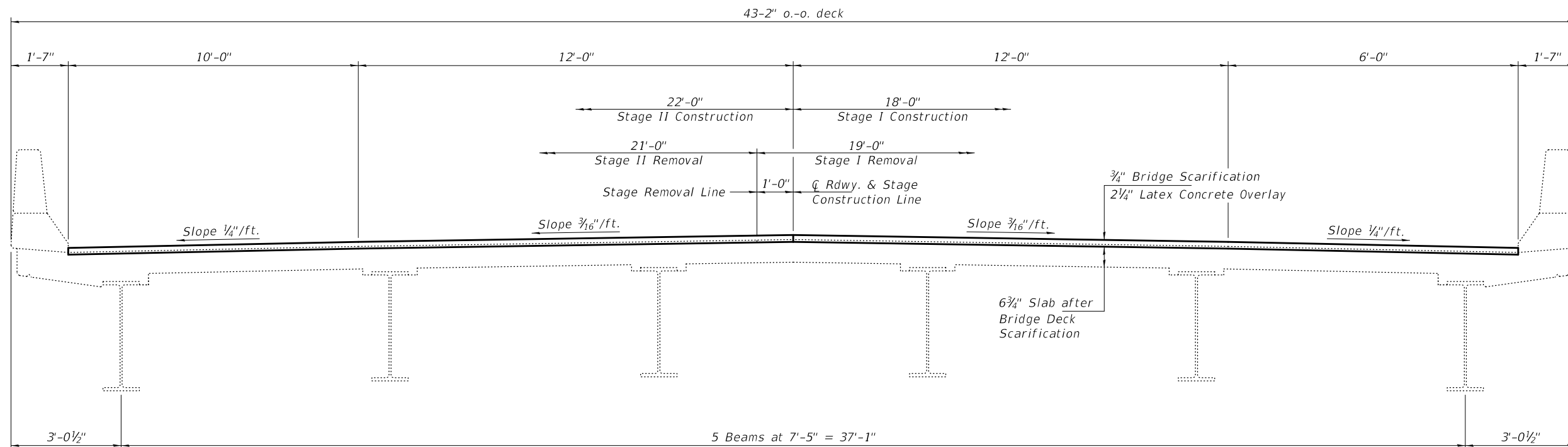
DESIGNED - <i>Vrcho H. Veliz</i>	EXAMINED - <i>Tus A. Delt</i>	DATE - NOVEMBER 27, 2019
CHECKED - <i>[Signature]</i>	PASSED - <i>[Signature]</i>	REVISD -
DRAWN - <i>[Signature]</i>		REVISD -
CHECKED - <i>[Signature]</i>		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

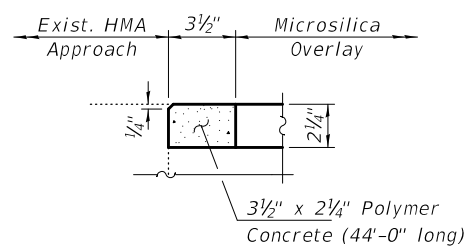
GENERAL PLAN AND ELEVATION  
FAP 310 (US 34 & 67) OVER BNSF RR  
SN 094-0033

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	[4HB;101VB-1]BR	WARREN	38	18
CONTRACT NO. 68D86			ILLINOIS FED. AID PROJECT	

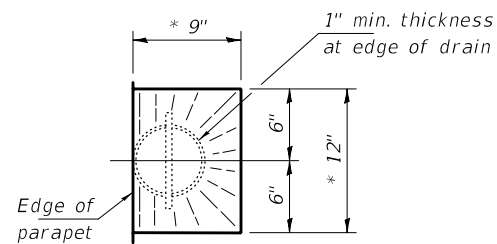
SHEET NO. 1 OF 2 SHEETS



**CROSS SECTION**  
(Looking North)





**POLYMER CONCRETE NOSING DETAIL**  
(Typ. Ea. Abutment)



**DRAIN DETAIL**  
\* slope to drain

DESIGNED - VHV  
CHECKED - JSB  
DRAWN - daburdell  
CHECKED - VHV JSB

EXAMINED  
PASSED  
  
  
 ENGINEER OF STRUCTURAL SERVICES  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - NOVEMBER 27, 2019  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTION & OVERLAY DETAILS  
SN 094-0033

SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	[4HB;101VB-1]BR	WARREN	38	19
CONTRACT NO. 68D86				
ILLINOIS		FED. AID PROJECT		

**GENERAL NOTES**

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

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Reinforcement bars designated (E) shall be epoxy coated. 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.

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

Synthetic fibers shall be added to the Bridge Deck Latex Concrete Overlay, see Special Provisions.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within 10 feet (measured along the beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning (SSPC-SP10). The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning (SSPC-SP15).

The designated areas cleaned per Near White Blast Cleaning (SSPC-SP10) and per Commercial Grade Power Tool Cleaning (SSPC-SP15) shall be painted according to the requirements of Zinc rich / Epoxy / Urethane. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Blue (Munsell No. 10B 3/6).

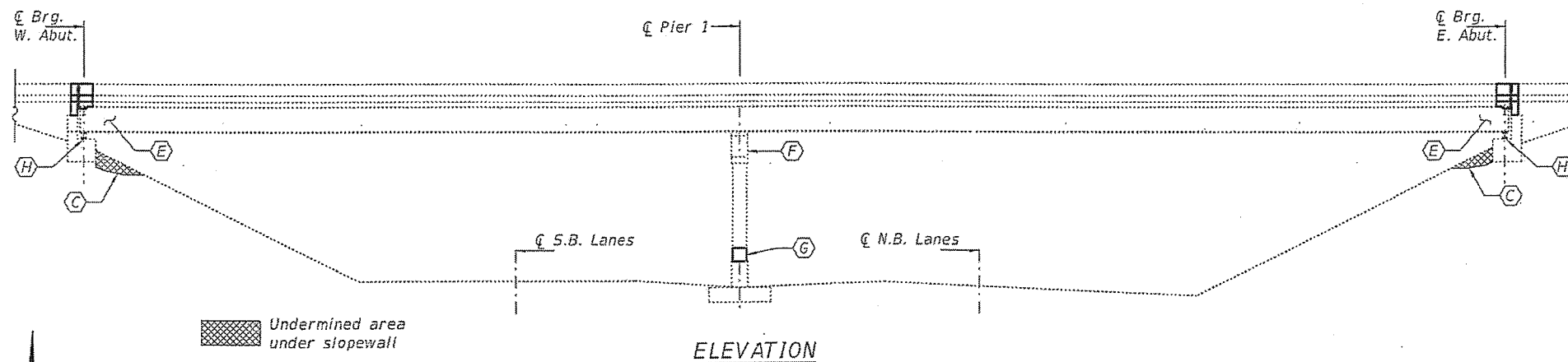
Containment of cleaning residue is required to control nuisance dust. See Special Provisions.

SSPC QP1 Certification is required for this Contract. Work to be completed under road closure.

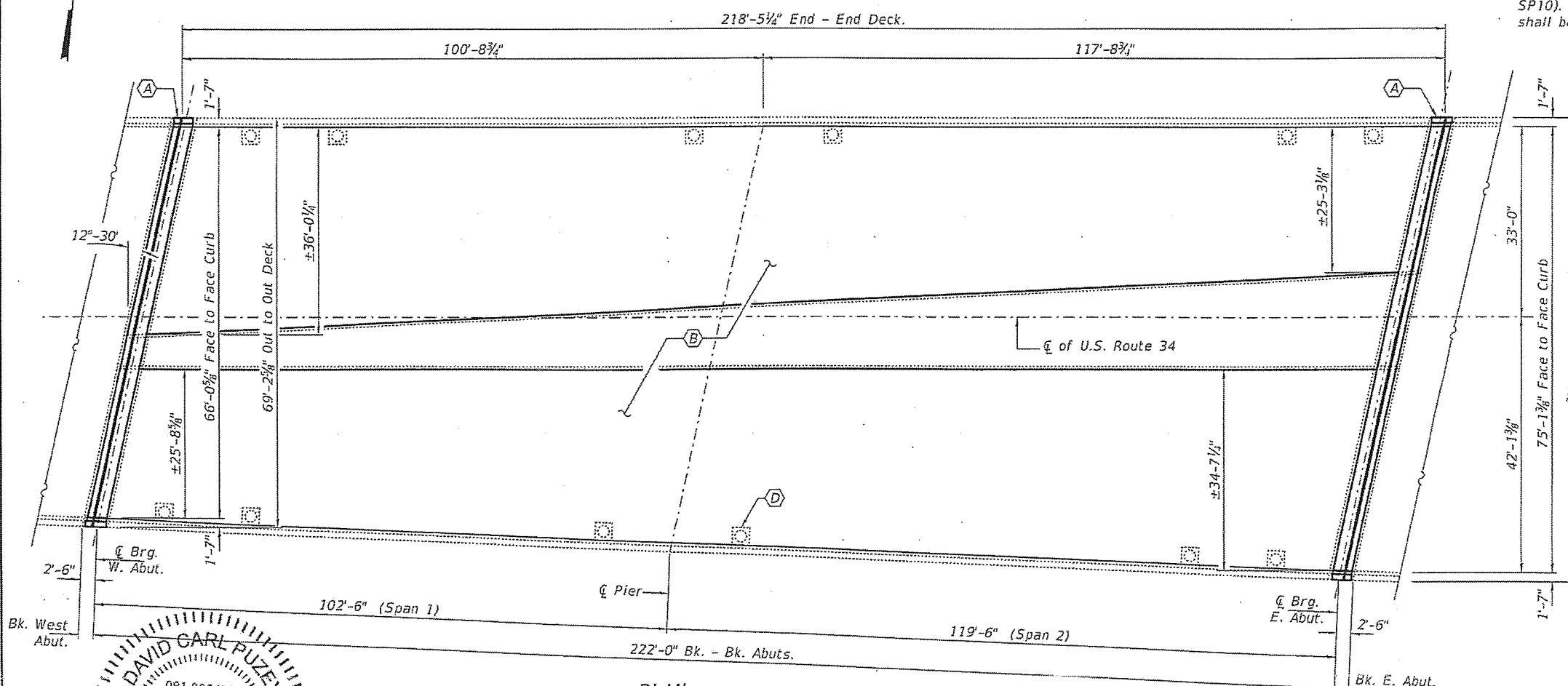
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	16.0
Concrete Structures	Cu. Yd.	9.1
Concrete Superstructure	Cu. Yd.	16.0
Preformed Joint Strip Seal	Foot	154
Reinforcement Bars, Epoxy Coated	Pound	4020
Bridge Deck Scarification, 3/4"	Sq. Yd.	1450
Bridge Deck Latex Conc. Overlay, 2 1/4"	Sq. Yd.	1450
Bridge Deck Grooving	Sq. Yd.	1353
Protective Coat	Sq. Yd.	1450
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	42
Floor Drain Extensions	Each	12
Jack and Remove Existing Bearings	Each	20
Elastomeric Bearing Assembly, Type I	Each	20
Anchor Bolts, 1"Ø	Each	40
Slope Wall Slurry Pumping	Cu. Yd.	10
Containment and Disposal of Non-Lead Paint Cleaning Residue	L. Sum	1
Cleaning and Painting Steel Bridge No. 1	L. Sum	1

\* Apply to new concrete and overlay only.

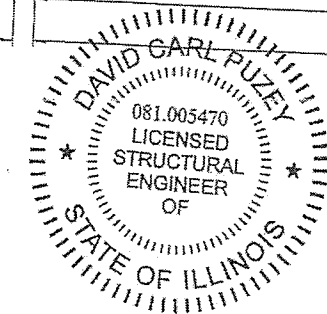


**ELEVATION**



**PLAN**

- (A) - Remove existing preformed joint seal and install new Preformed Joint Strip Seal.
- (B) - Scarify Original deck 3/4" and install new 2 1/4" Latex Overlay on the existing deck. See sheet 2 of 9 for details.
- (C) - Slopewall slurry pumping. (Grout gap between cap and slopewall and undermined area under slopewall.)
- (D) - Extend deck drains below bottom flanges. (12 locations)
- (E) - Paint the beam ends.
- (F) - Pier Cap Repair.
- (G) - Crashwall extension.
- (H) - Bearing Replacement.



EXPIRES 11-30-2020

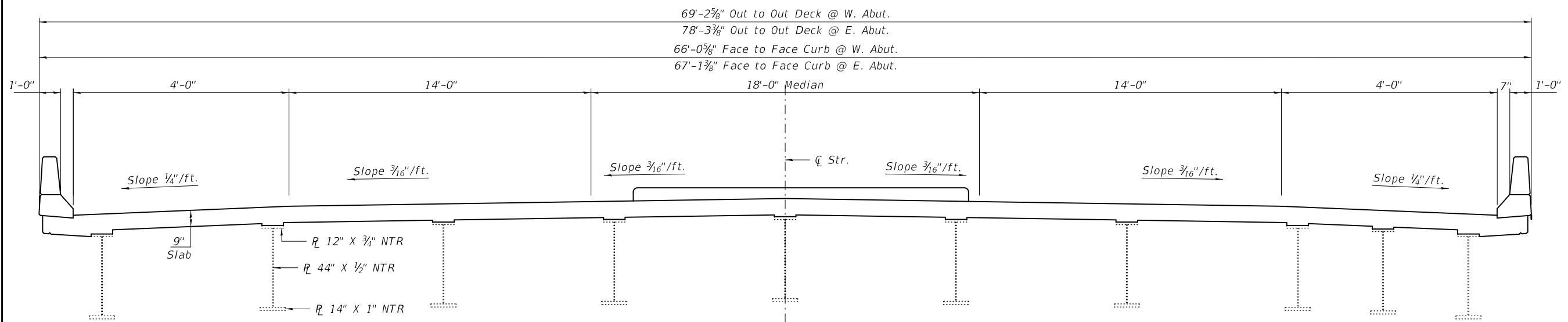
DESIGNED - <i>Vicki H. Velys</i>	EXAMINED - <i>T. A. ...</i>	DATE - NOVEMBER 27, 2019
CHECKED - <i>...</i>	PASSED - <i>...</i>	REVISED -
DRAWN - <i>Yenfat Reddy</i>	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
CHECKED - <i>HU JSB</i>		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

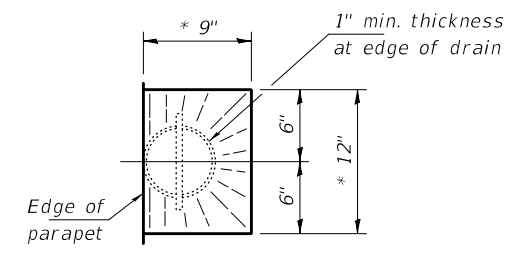
GENERAL PLAN AND ELEVATION  
FA 45 (U.S. 34) OVER U.S. RTE 67  
SN 094-0041

SHEET NO. 1 OF 9 SHEETS

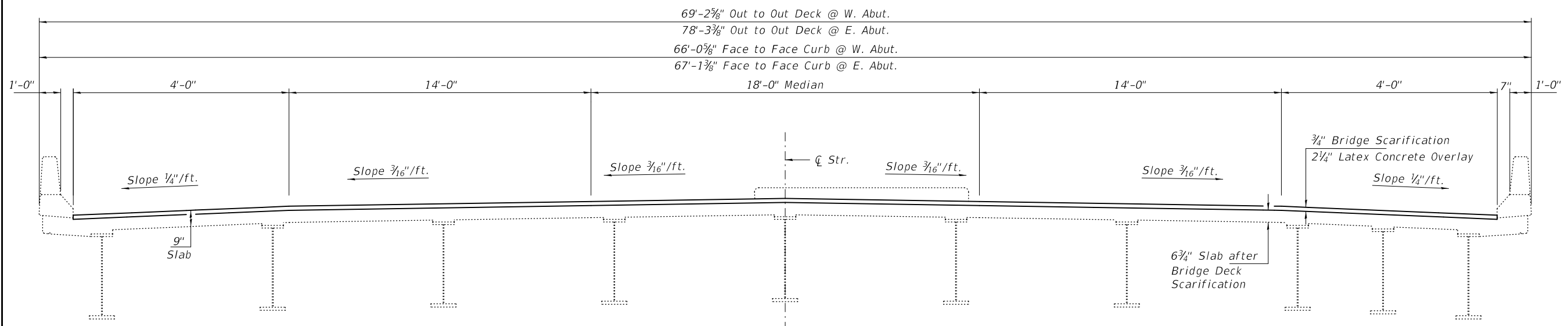
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	[4]B;101B-1]BR	WARREN	38	20
				CONTRACT NO. 68D86
ILLINOIS   FED. AID PROJECT				



**CROSS SECTION AT ABUTMENTS**  
 (Looking East)

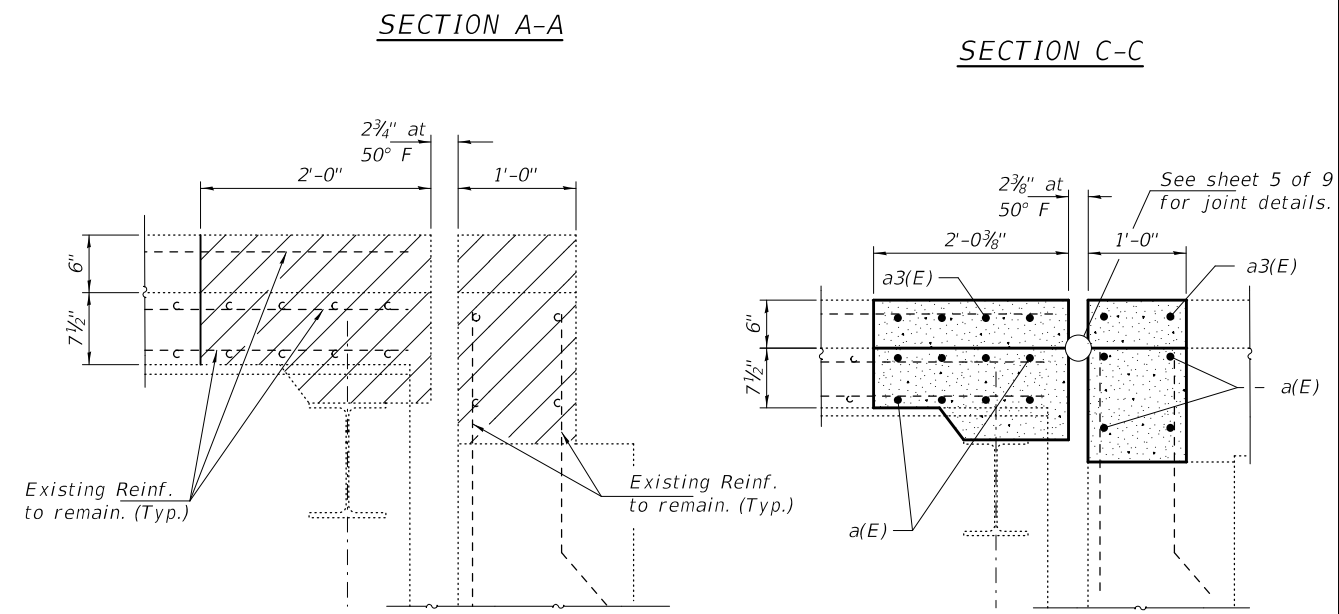
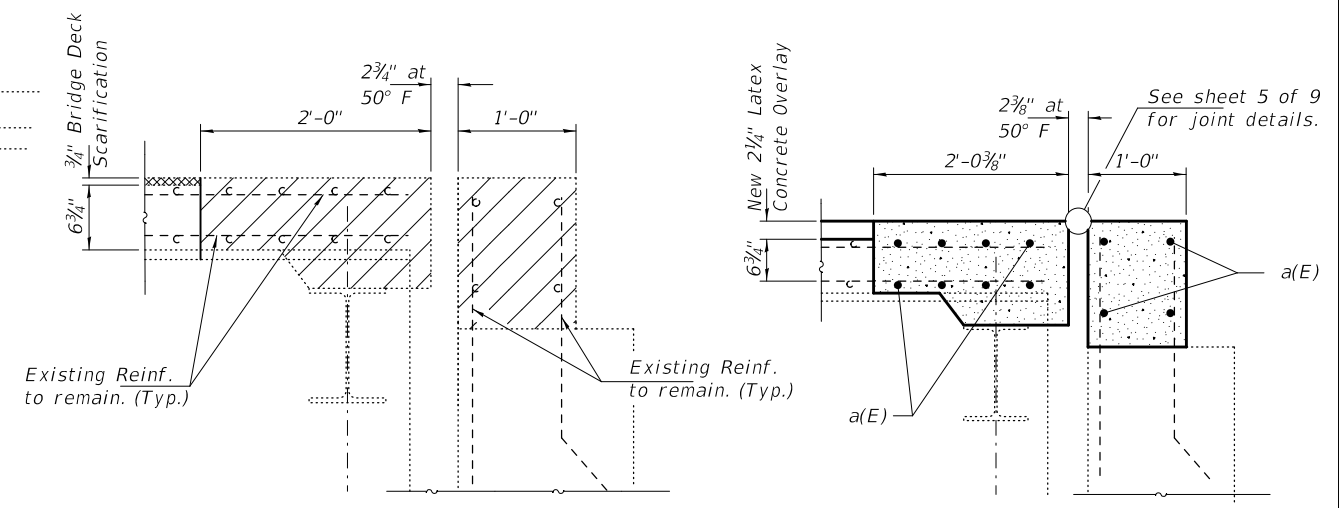
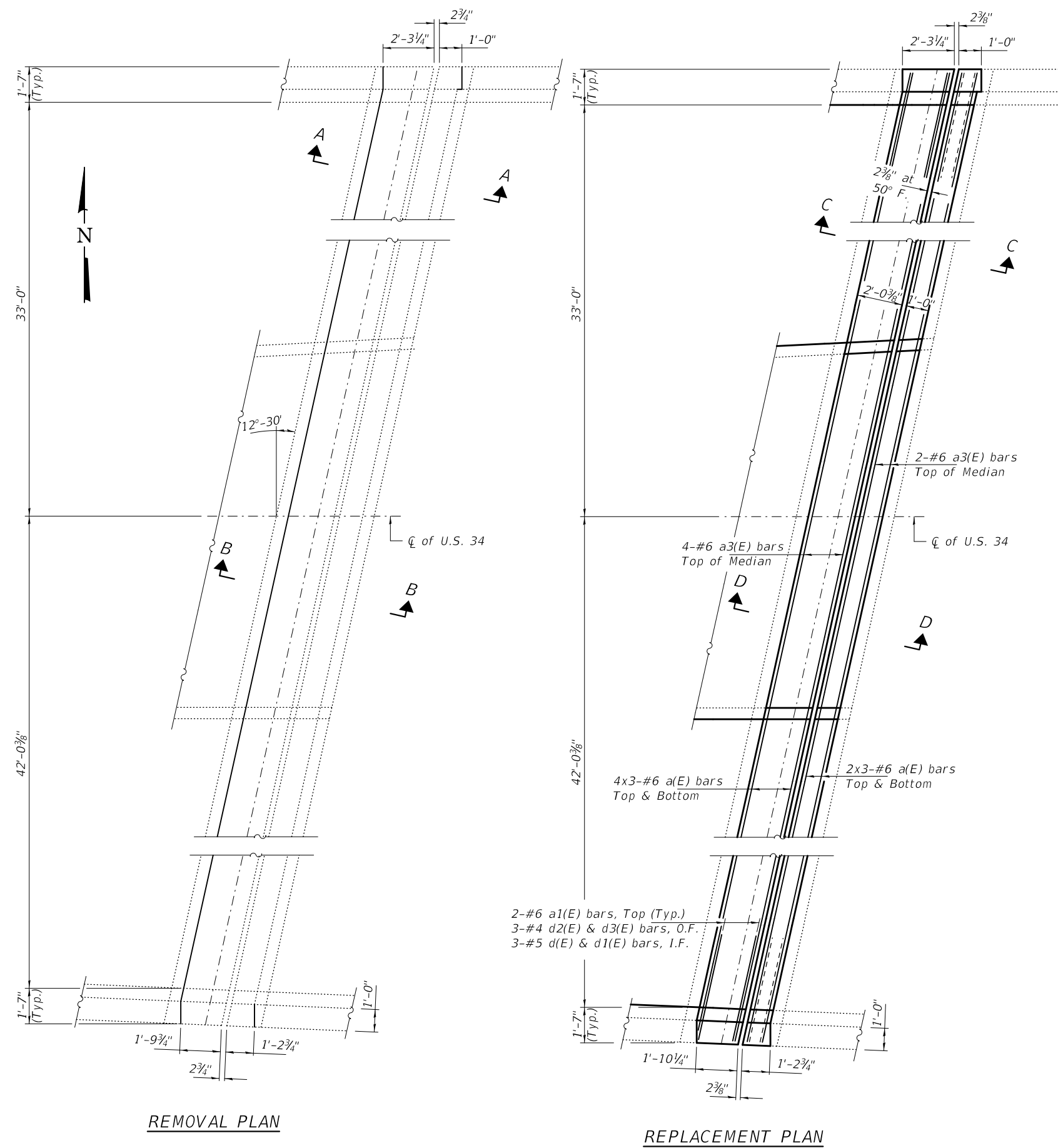


**DRAIN DETAIL**  
 \* slope to drain



**CROSS SECTION AT MID-SPAN**  
 (Looking East)

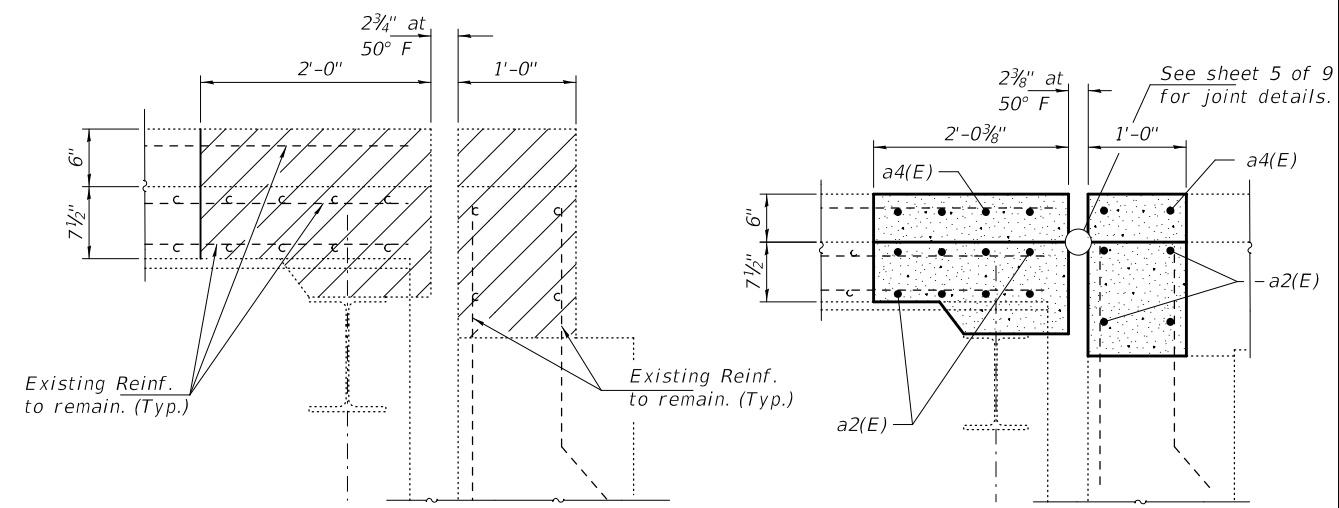
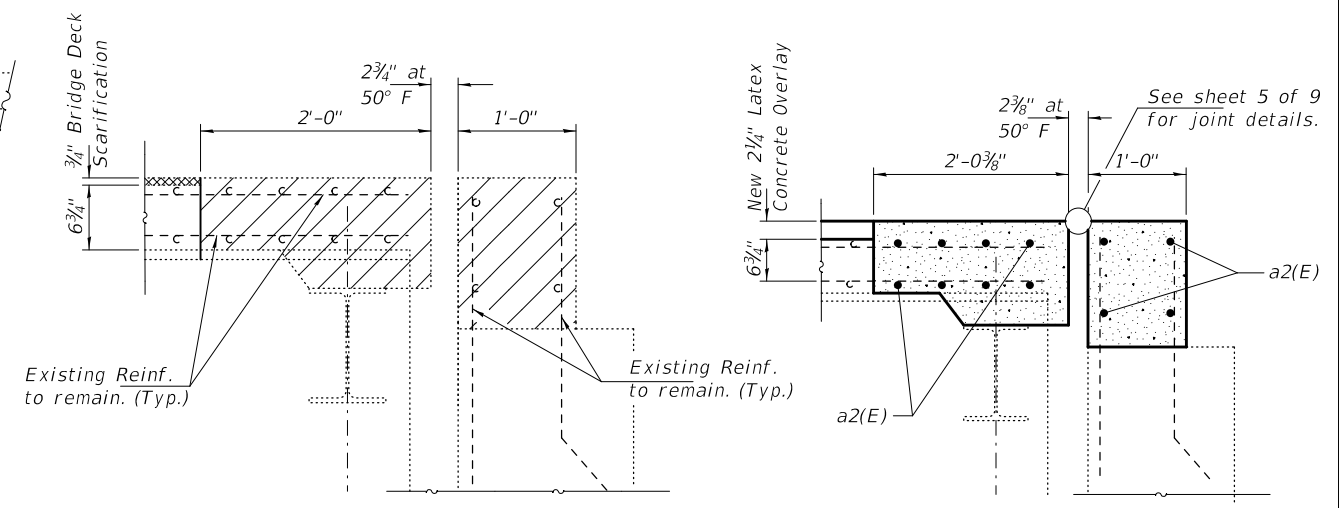
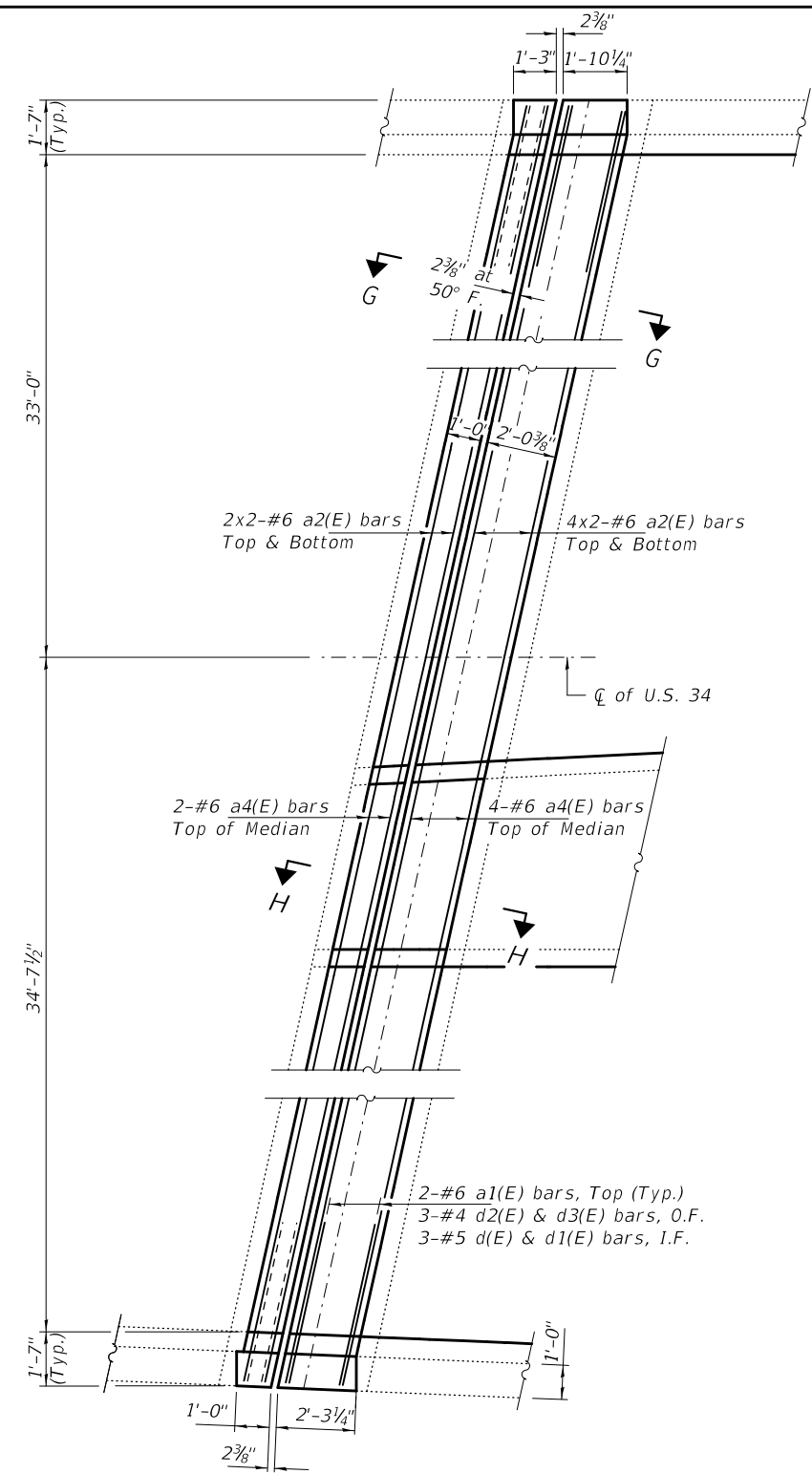
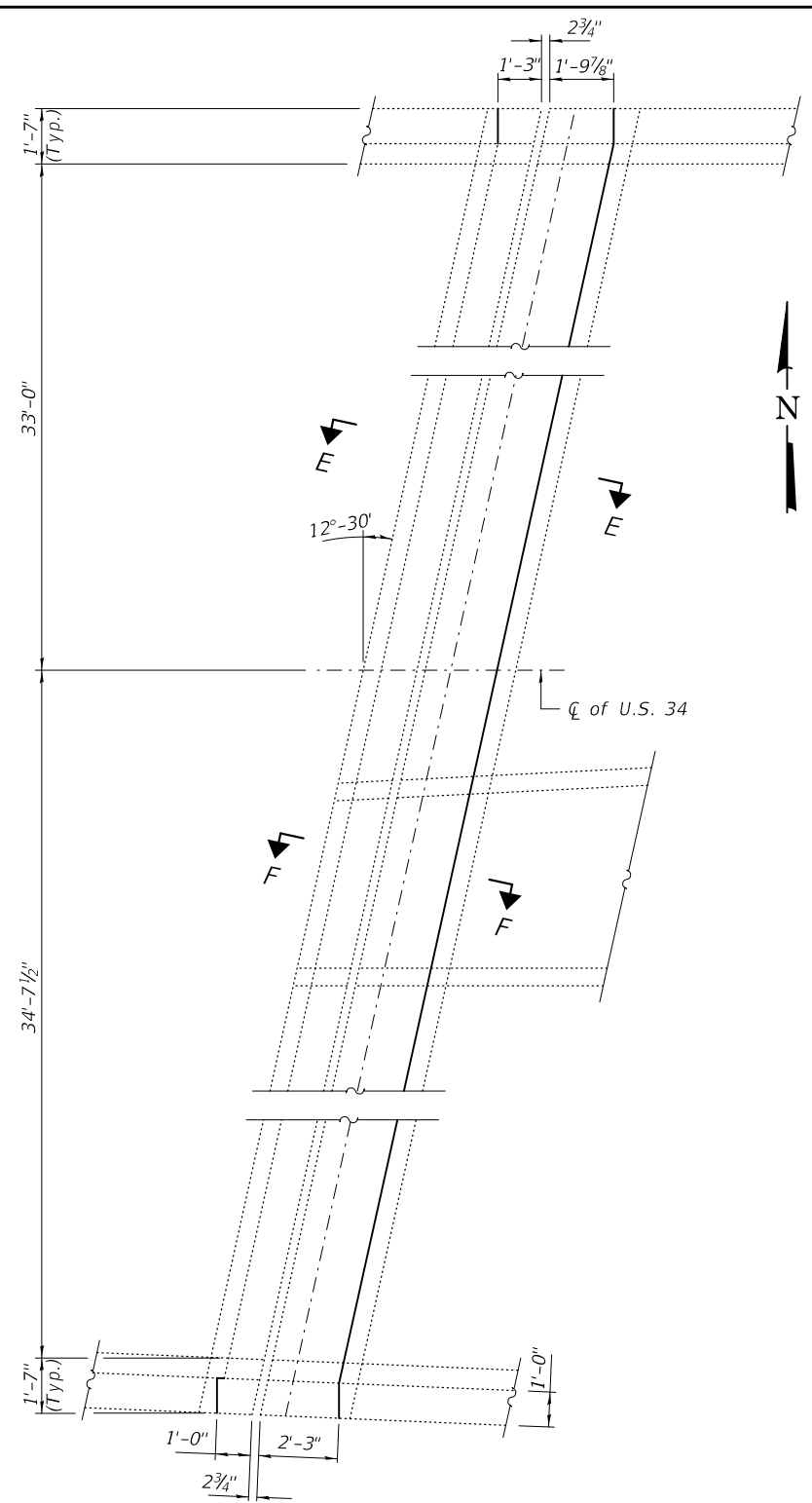
DESIGNED - VHV	EXAMINED	DATE - NOVEMBER 27, 2019	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS &amp; STAGING DETAILS SN 094-0041</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - JSB	<i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	REVISED -			45	[4HB;101VB-1]BR	WARREN	38	21	
DRAWN - Venkat Reddy	PASSED <i>Carl Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			CONTRACT NO. 68D86					
CHECKED - VHV JSB					SHEET NO. 2 OF 9 SHEETS					
				ILLINOIS FED. AID PROJECT						



Notes:  
 See sheet 5 of 9 for Section Thru Bridge Parapet, Section Thru Approach Parapet, Bill of Material, Section Thru Median and reinforcement bending diagrams.  
 Hatched areas indicate Concrete Removal.  
 Bars indicated thus 6x2-#6 etc. indicates 6 lines of bars with 2 lengths per line.

**MINIMUM BAR LAP**  
 #6 bar = 4'-10"

DESIGNED - VHV	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - NOVEMBER 27, 2019	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINT REPLACEMENT DETAILS - EAST ABUTMENT SN 094-0041	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - JSB	PASSED - <i>Carl Peyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			45	[4HB;101VB-1]BR	WARREN	38	22
DRAWN - Venkat Reddy		REVISED -	SHEET NO. 3 OF 9 SHEETS		CONTRACT NO. 68D86				
CHECKED - VHV JSB					ILLINOIS FED. AID PROJECT				



Notes:  
 See sheet 5 of 9 for Section Thru Bridge Parapet,  
 Section Thru Approach Parapet, Bill of Material,  
 Section Thru Median and reinforcement bending diagrams.  
 Hatched areas indicate Concrete Removal.  
 Bars indicated thus 6x2-#6 etc. indicates 6 lines  
 of bars with 2 lengths per line.

**MINIMUM BAR LAP**  
 #6 bar = 4'-10"

DESIGNED - VHV  
 CHECKED - JSB  
 DRAWN - Venkat Reddy  
 CHECKED - VHV JSB

EXAMINED  
 PASSED  
 ENGINEER OF STRUCTURAL SERVICES  
 ENGINEER OF BRIDGES AND STRUCTURES

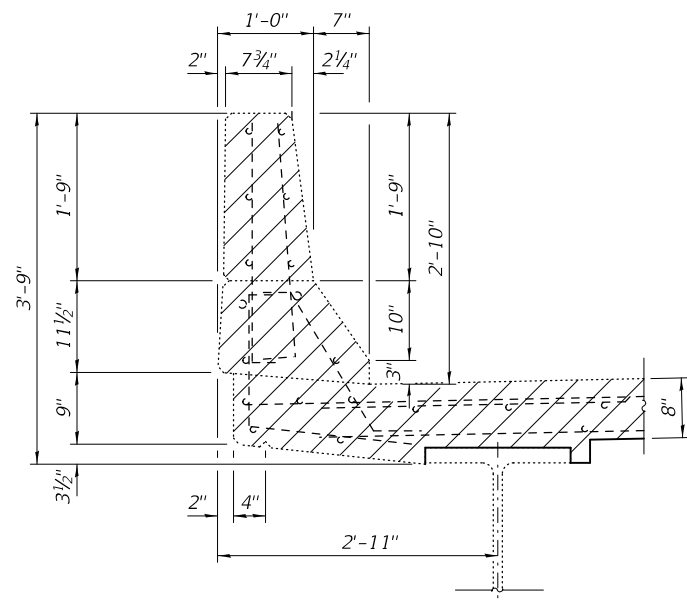
DATE - NOVEMBER 27, 2019  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

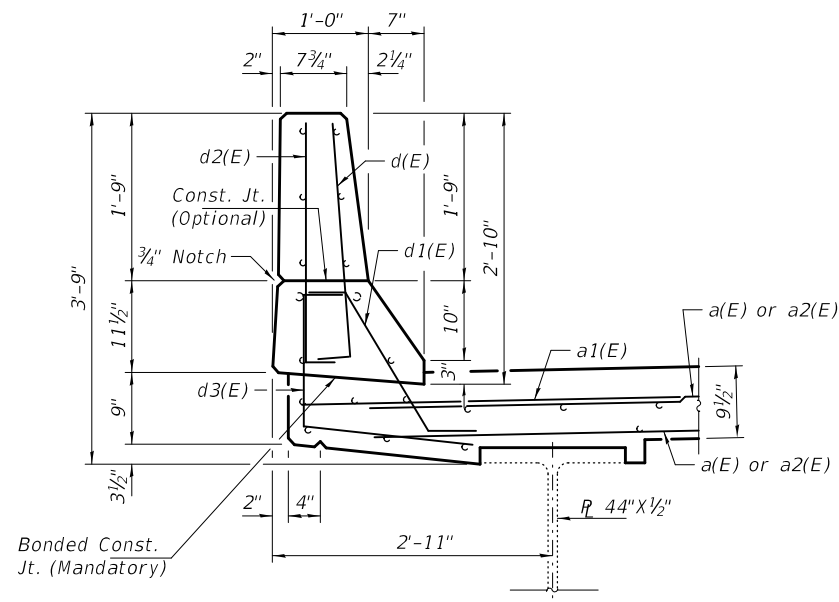
JOINT REPLACEMENT DETAILS - WEST ABUTMENT  
 SN 094-0041

SHEET NO. 4 OF 9 SHEETS

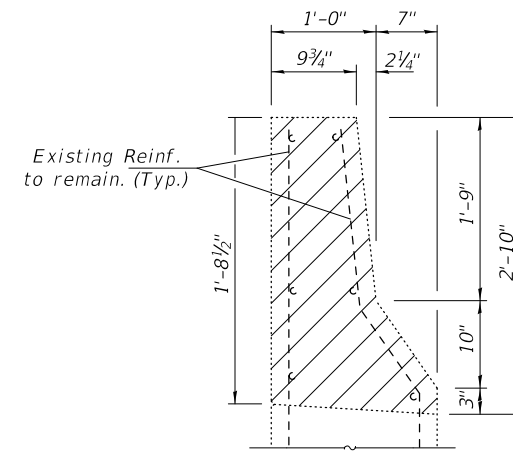
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	[4HB;101VB-1]BR	WARREN	38	23
CONTRACT NO. 68D86				
ILLINOIS FED. AID PROJECT				



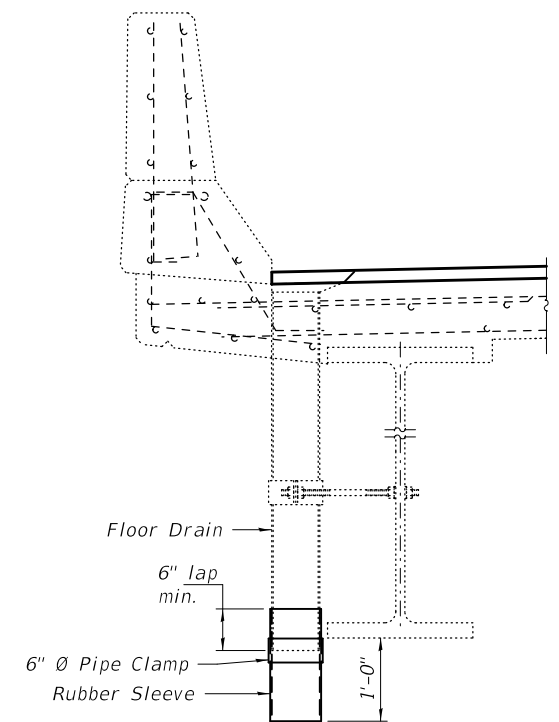
SECTION THRU BRIDGE PARAPET



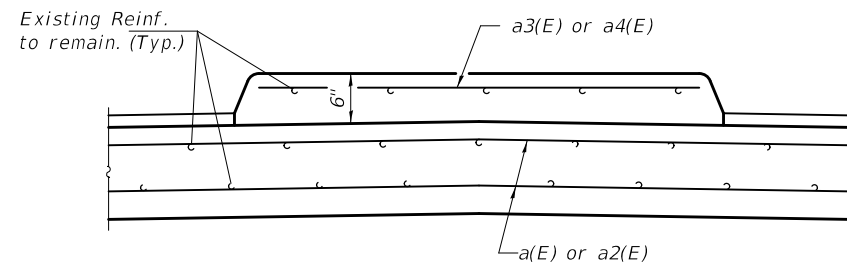
SECTION THRU BRIDGE PARAPET



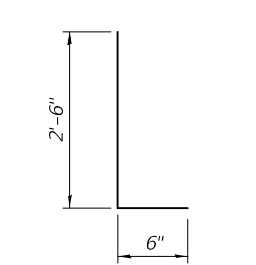
SECTION THRU WINGWALL



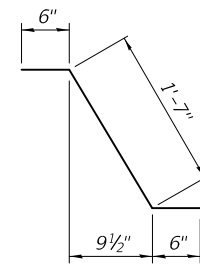
FLOOR DRAIN EXTENSION  
(12 Required)



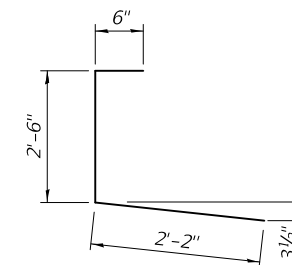
SECTION THRU MEDIAN



BAR d(E) & d2(E)



BAR d1(E)



BAR d3(E)

BILL OF MATERIAL  
(2 ABUTS. & 1 PIER)

Bar	No.	Size	Length	Shape
a(E)	36	#6	30'-0"	—
a1(E)	8	#6	4'-0"	—
a2(E)	24	#6	27'-0"	—
a3(E)	6	#5	15'-11"	—
a4(E)	6	#5	5'-1"	—
d(E)	12	#5	3'-0"	L
d1(E)	12	#5	2'-7"	∩
d2(E)	12	#4	3'-0"	J
d3(E)	12	#4	4'-1"	L
Concrete Removal			Cu. Yd.	16.0
Concrete Superstructure			Cu. Yd.	16.0
Reinforcement Bars, Epoxy Coated			Pound	2910

DESIGNED - VHV  
 CHECKED - JSB  
 DRAWN - Venkat Reddy  
 CHECKED - VHV JSB

EXAMINED  
 PASSED  
 ENGINEER OF STRUCTURAL SERVICES  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - NOVEMBER 27, 2019  
 REVISED -  
 REVISED -

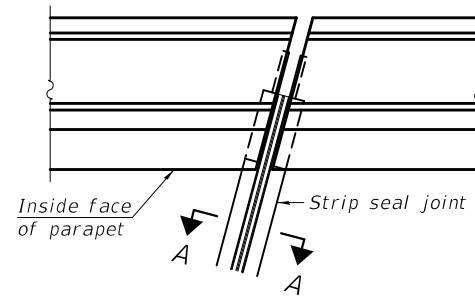
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT DETAILS  
 SN 094-0041

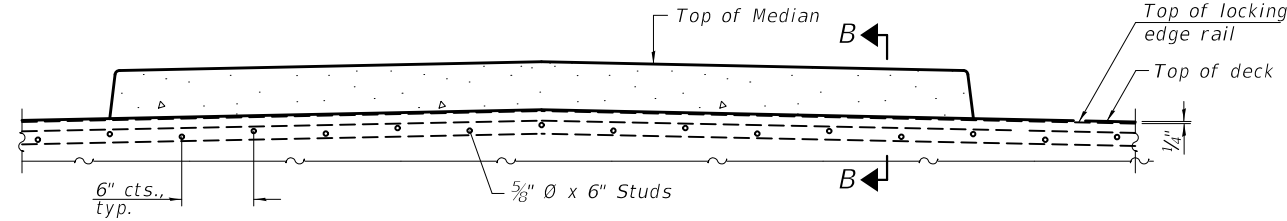
SHEET NO. 5 OF 9 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 68D86	
ILLINOIS FED. AID PROJECT				

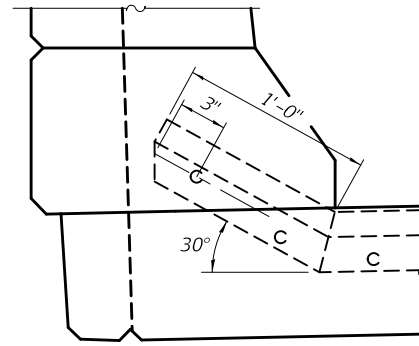




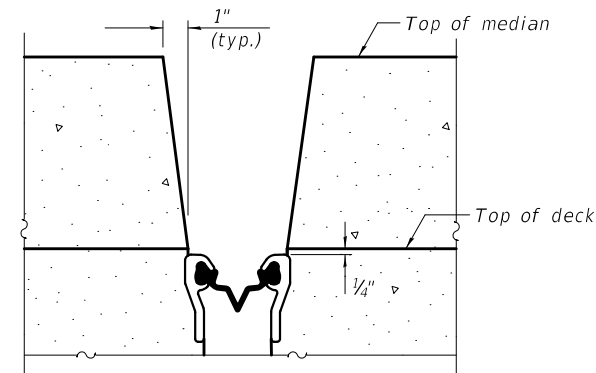
FOR SKEWS  $\leq 30^\circ$   
**PLAN AT PARAPET**



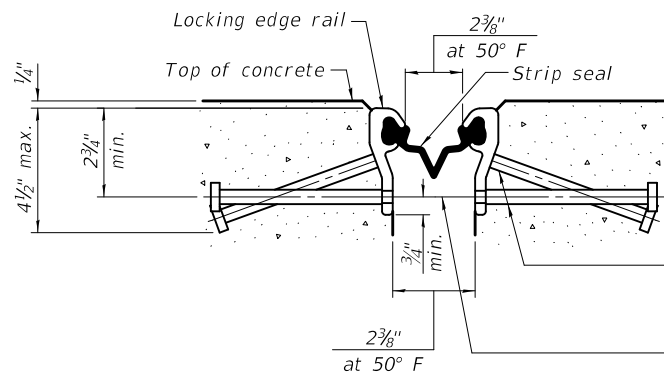
**ELEVATION AT MEDIAN**  
 For skews  $> 30^\circ$ , chamfer acute corners 2" similar to sidewalk.



**DETAIL A**



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

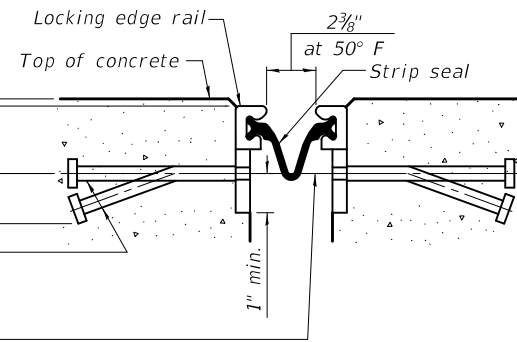


**SHOWING ROLLED RAIL JOINT**

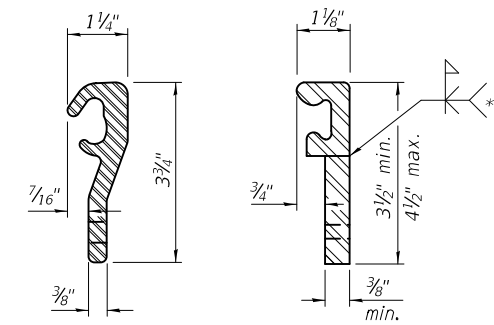
\*  $\frac{5}{8}$ "  $\emptyset$  x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
 $\frac{3}{8}$ "  $\phi$  threaded rods in  $\frac{7}{16}$ "  $\phi$  holes at  $\pm 4'-0"$  cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

**SECTION A-A**

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

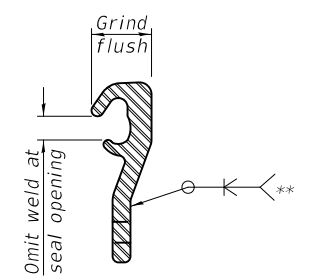


**SHOWING WELDED RAIL JOINT**



**LOCKING EDGE RAILS**  
 ROLLED (EXTRUDED) RAIL  
 WELDED RAIL

\*\* 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	154

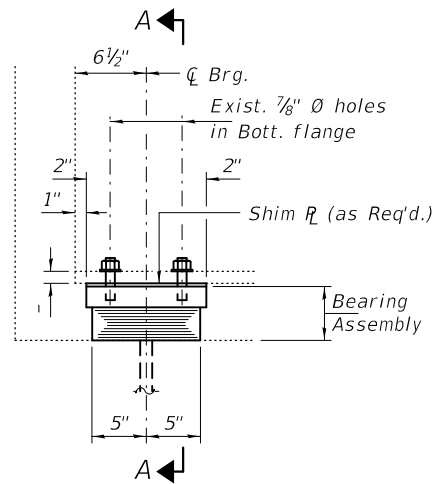
DESIGNED - VHV	EXAMINED - <i>Timothy A. Daburdell</i>	DATE - NOVEMBER 27, 2019
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - <i>daburdell</i>	PASSED - <i>Carl Rieger</i>	REVISED -
CHECKED - VHV JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

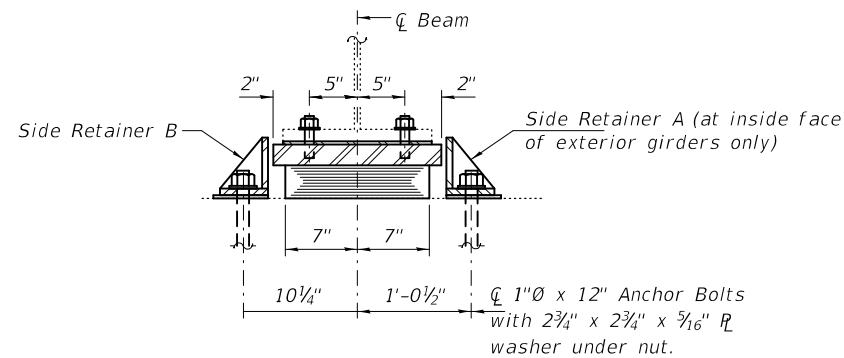
PREFORMED JOINT STRIP SEAL  
 SN 094-0041

SHEET NO. 6 OF 9 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	[4HB;101VB-1]BR	WARREN	38	25
			CONTRACT NO. 68D86	
ILLINOIS FED. AID PROJECT				

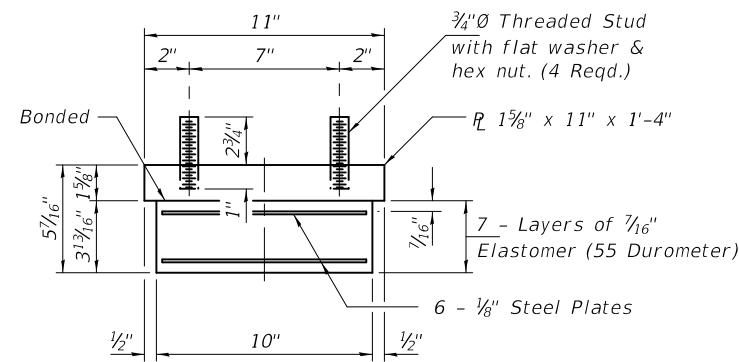


**ELEVATION AT ABUTMENT**



**SECTION A-A**

**TYPE I ELASTOMERIC EXP. BRG.**

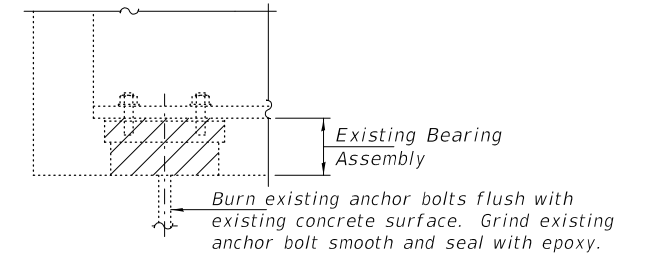


**BEARING ASSEMBLY**

**BEAM REACTIONS**

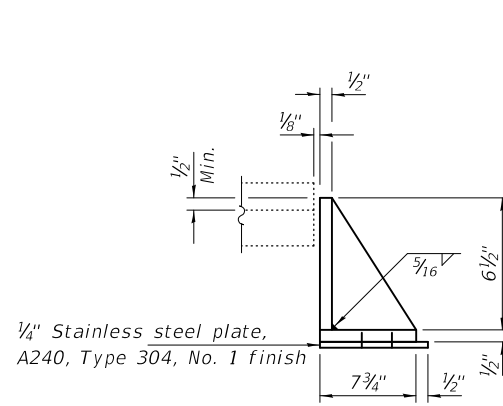
R <sub>l</sub>	(K)	56.9
R <sub>r</sub>	(K)	51.7
Imp.	(K)	10.7
R (Total)	(K)	119.3

Notes:  
 Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.  
 New shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.  
 Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).  
 Min. jack capacity = 45 Tons.  
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F<sub>y</sub>=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
 Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.



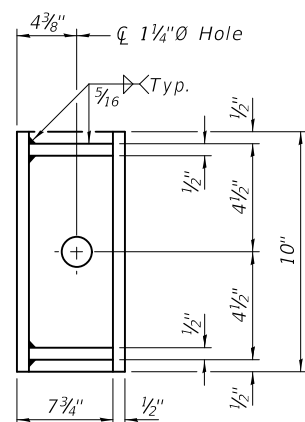
**EXISTING BEARING REMOVAL DETAIL**

Cost included with Jack and Remove Existing Bearings.



**SIDE RETAINER A**

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. (4 locations)



**SIDE RETAINER B**

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. (36 required)

**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	20
Jack and Remove Existing Bearings	Each	20
Anchor Bolts, 1"Ø	Each	40

DESIGNED - VHV  
 CHECKED - JSB  
 DRAWN - daburdell  
 CHECKED - VHV JSB

EXAMINED  
 PASSED  
 ENGINEER OF STRUCTURAL SERVICES  
 ENGINEER OF BRIDGES AND STRUCTURES

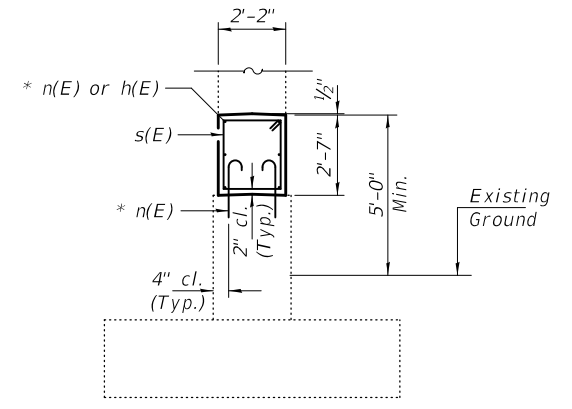
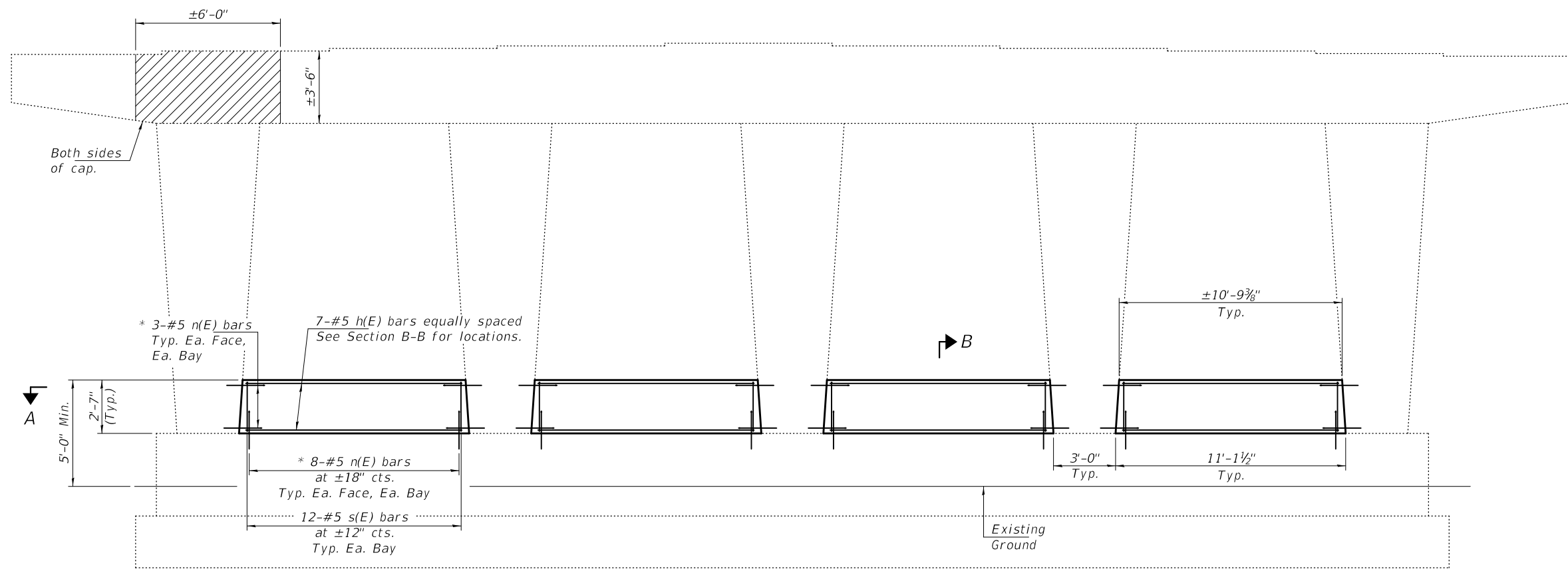
DATE - NOVEMBER 27, 2019  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BEARING DETAILS  
 SN 094-0041

SHEET NO. 7 OF 9 SHEETS

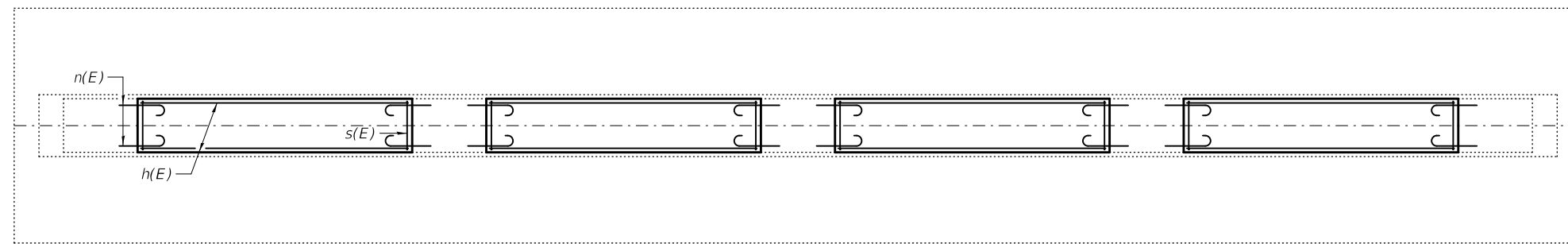
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	[4HB;101VB-1]BR	WARREN	38	26
CONTRACT NO. 68D86				
ILLINOIS FED. AID PROJECT				



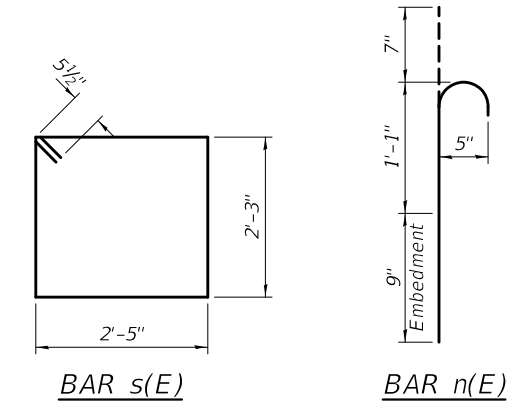
**SECTION B-B**


\* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.

**ELEVATION**  
(Looking East)



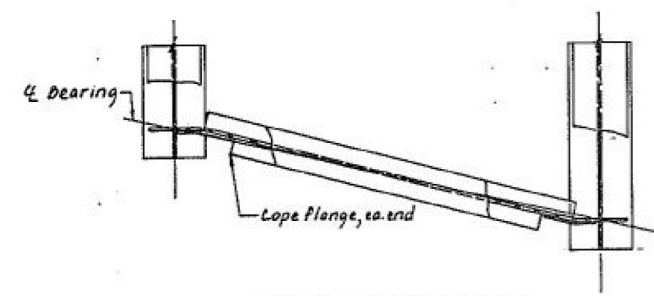
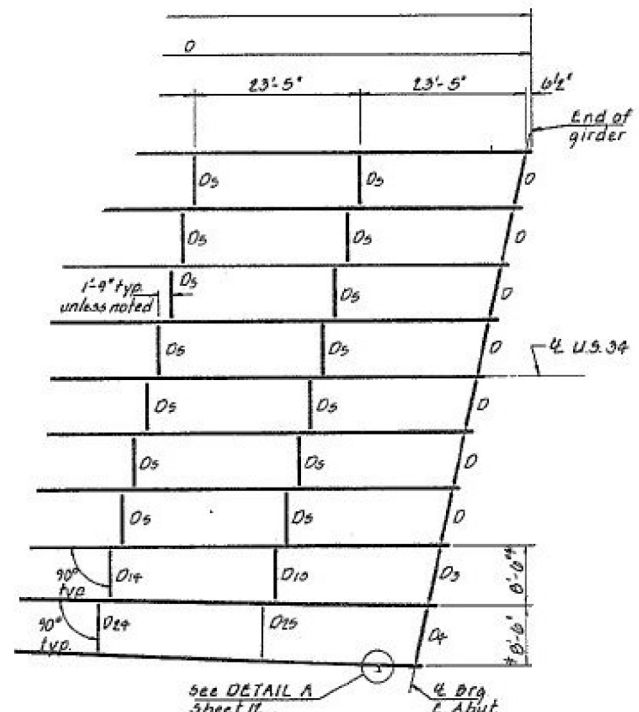
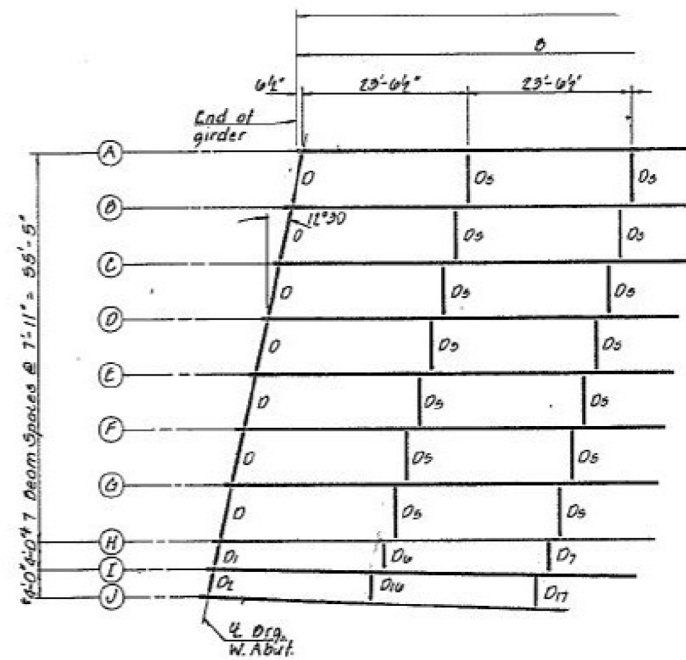
**SECTION A-A**



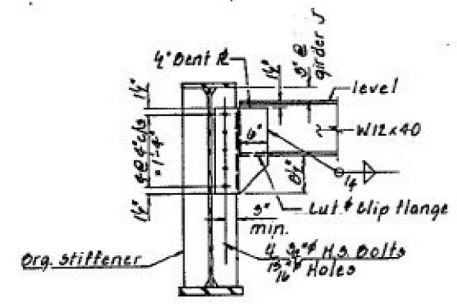
 Structural Repair of Concrete  
(Depth Equal to or Less Than 5 Inches)

**BILL OF MATERIAL**

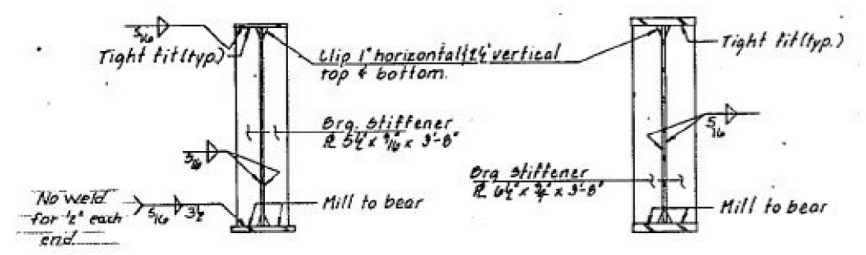
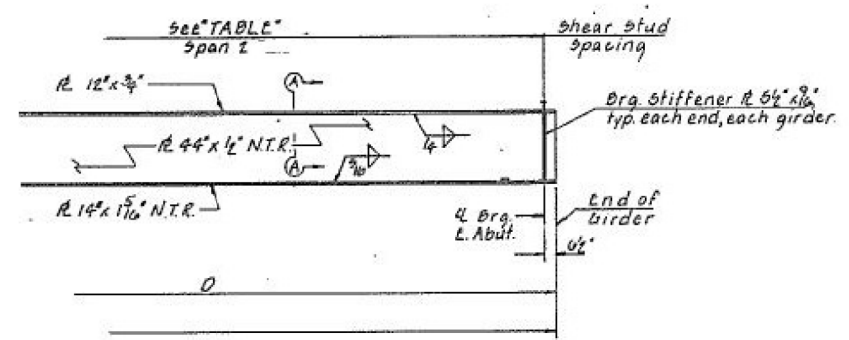
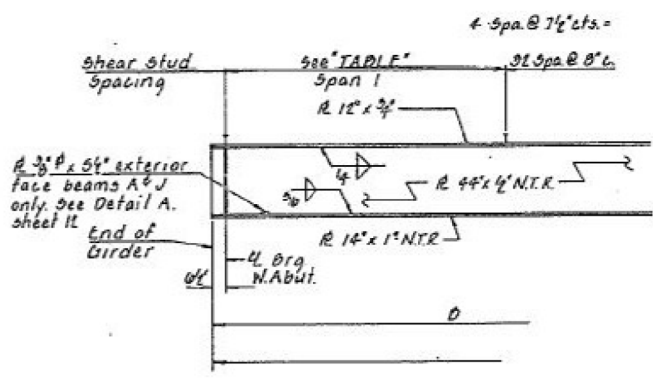
Bar	No.	Size	Length	Shape	
h(E)	28	#5	10'-6"	—	
n(E)	112	#5	2'-5"	U	
s(E)	48	#5	10'-3"	□	
Concrete Structures				Cu. Yd.	9.1
Reinforcement Bars, Epoxy Coated				Pound	1110
Structural Repair of Concrete (Depth Equal to or Less Than 5")				Sq. Ft.	42



PLAN @ DIAPHRAGM D  
Diaphragms D1-D4 similar

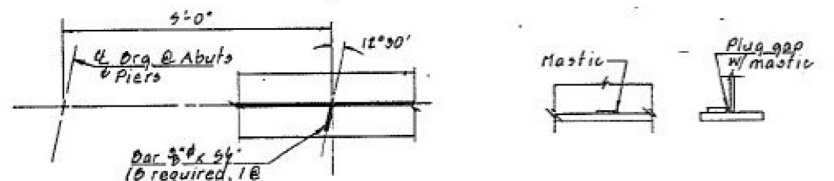


DIAPHRAGM D-D4



SECTION AT ABUTTS

SECTION AT PIER



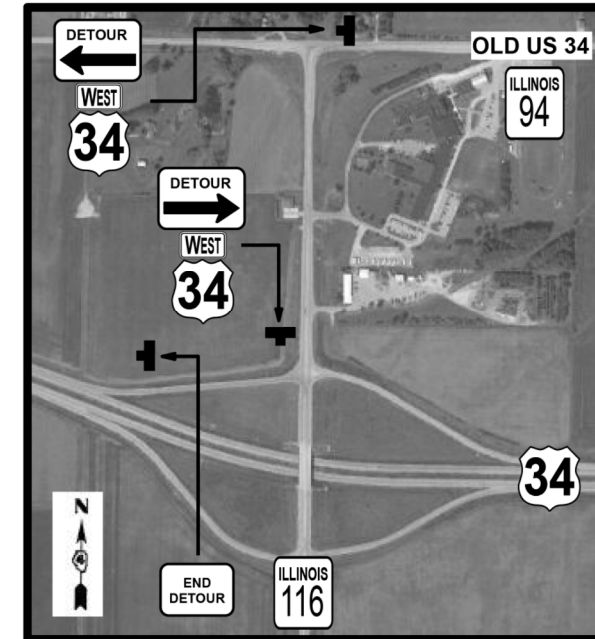
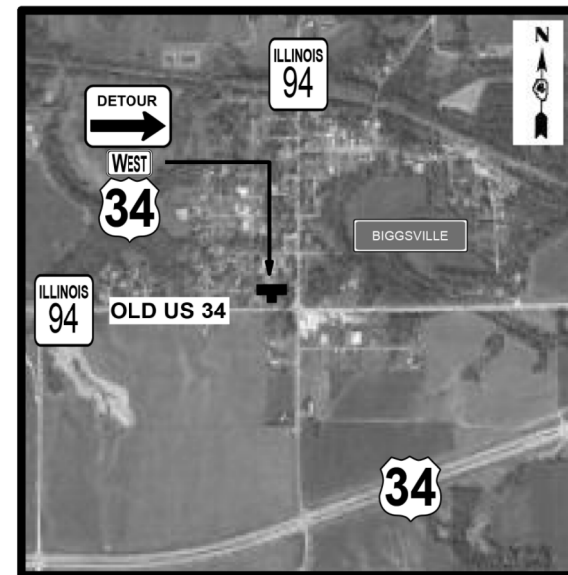
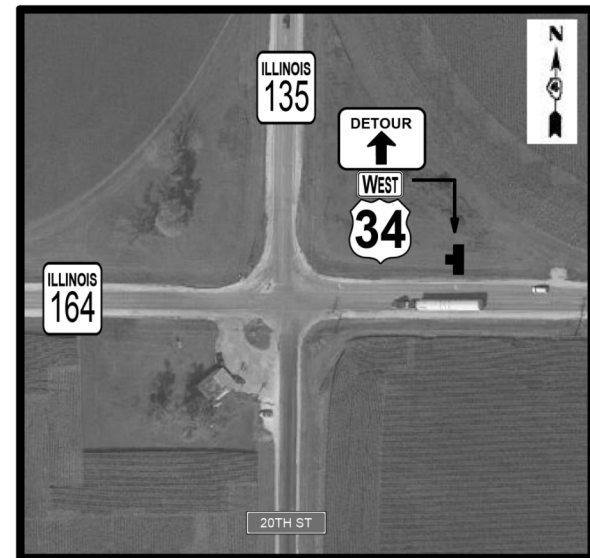
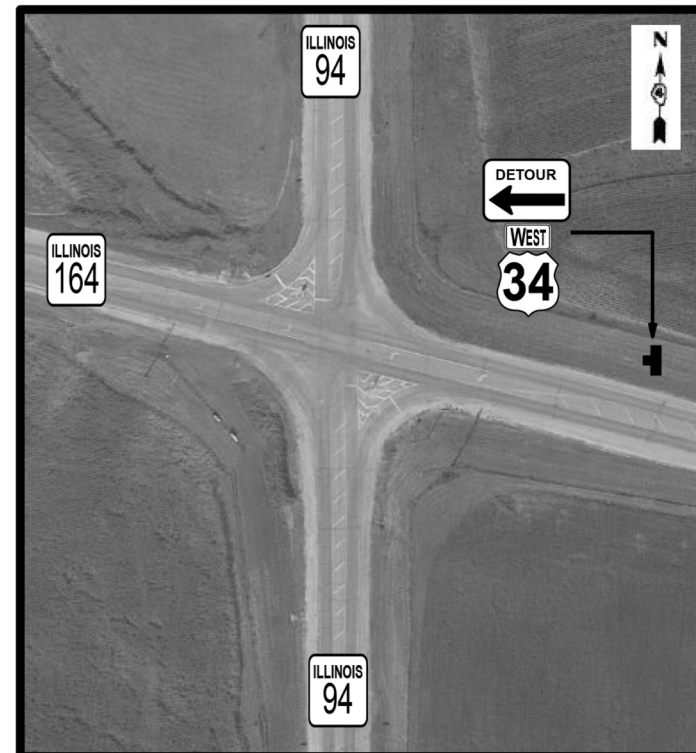
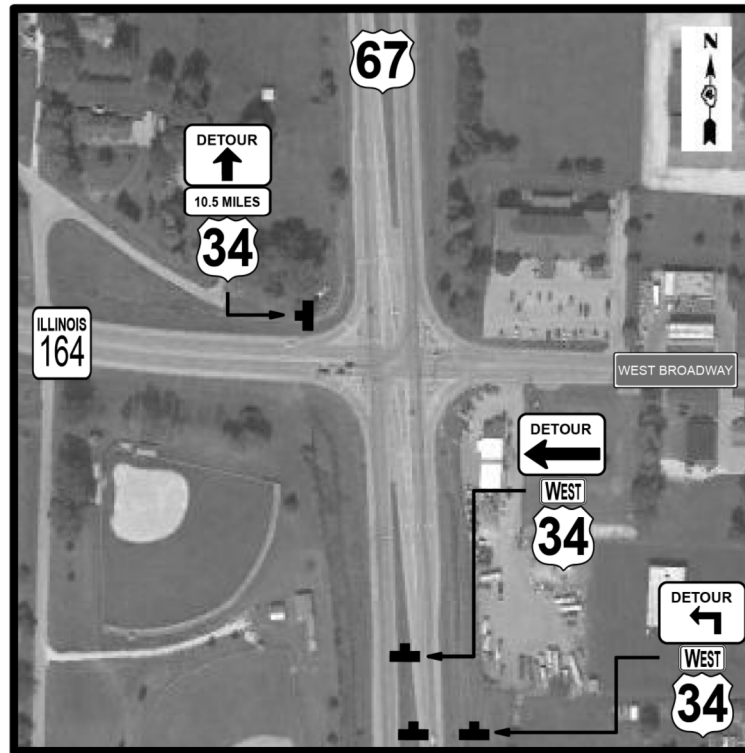
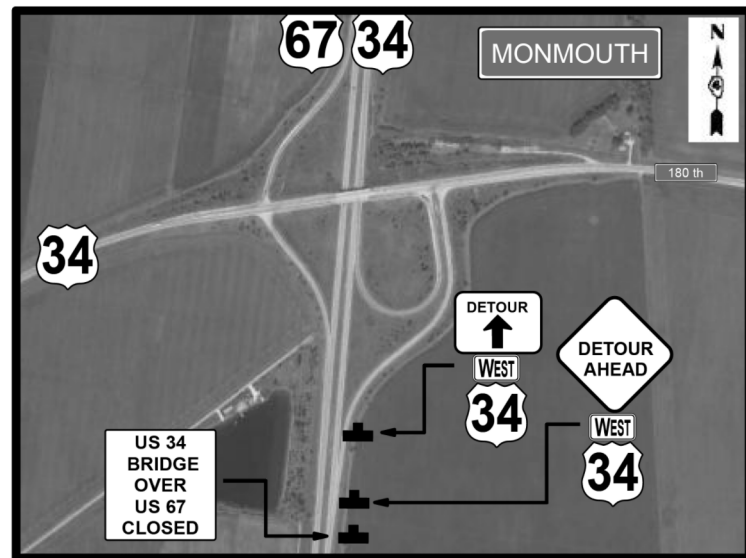
DETAIL "A"

DESIGNED - VHV	EXAMINED - <i>Timothy A. ...</i>	DATE - NOVEMBER 27, 2019
CHECKED - JSB	PASSED - <i>Carl ...</i>	REVISIONS
DRAWN - daburdell		
CHECKED - VHV JSB		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY - EXISTING STRUCTURAL STEEL  
SN 094-0041

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	[4HB;101VB-1]BR	WARREN	38	28
CONTRACT NO. 68D86				
ILLINOIS FED. AID PROJECT				



# DETOUR PLAN SHEETS

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 PROJECT: \\nrcs-pub\pub\DOT\Documents\DOT\_Offices\District\_4\Projects\ID4\_68D86\CADD\Map\CD\Sheets\68D86\_Full\_Plan.sdp

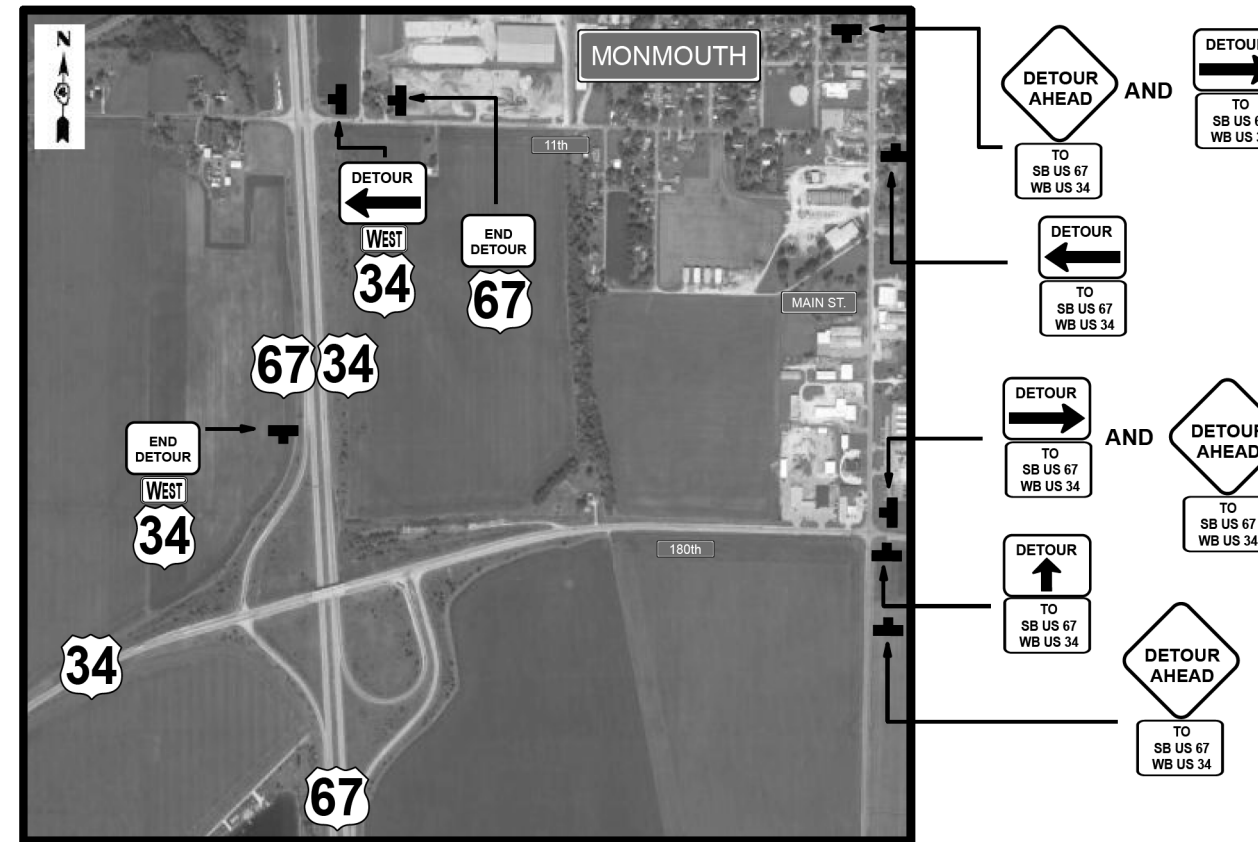
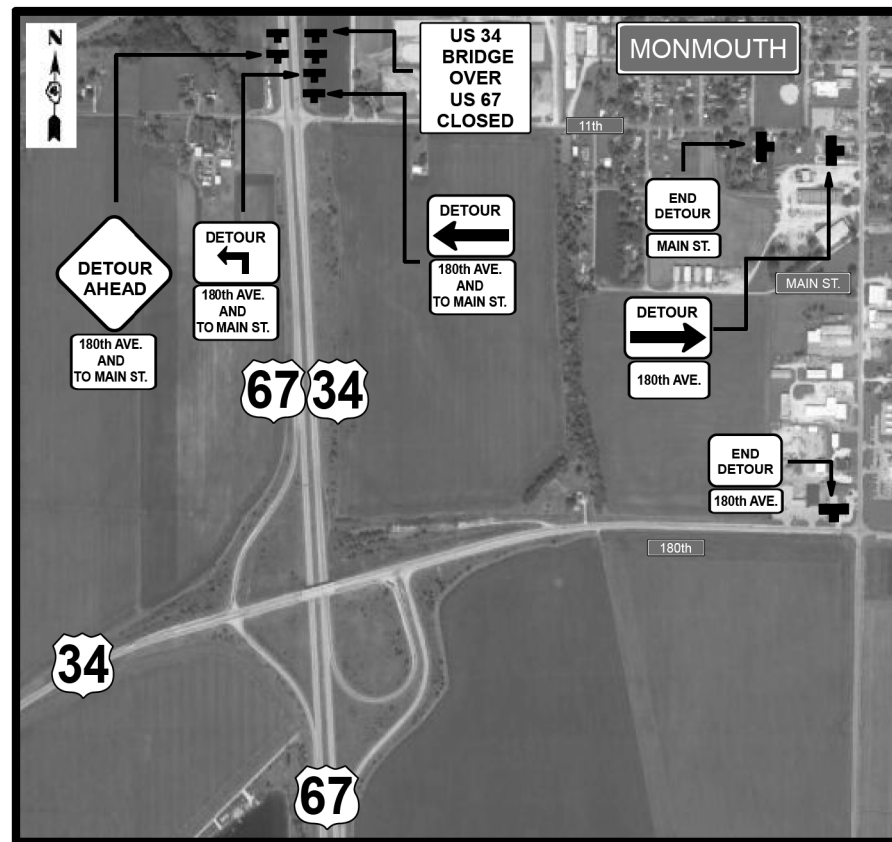
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	DRAWN -	REVISED -
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PLOT DATE = 10/23/2019	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN SHEETS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[4HB;101VB-1]BR	WARREN	38	29
* 310/313			CONTRACT NO. 68D86	
		ILLINOIS	FED. AID PROJECT	



## DETOUR PLAN NOTES:

ALL SIGNS SHALL BE GROUND POST MOUNTED EXCEPT WHERE NOT POSSIBLE-RESIDENT ENGINEER'S DISCRETION.

SIGN LOCATIONS MAY NEED RELOCATED FOR VISIBILITY/ OTHER SIGN CONFLICTS.

ROUTE SIGNS SHALL CONFORM TO STANDARD ROUTE SIGNS. EAST/WEST SHALL BE BLACK ON WHITE. OTHER STREET

DESIGNATIONS SHALL BE BLACK ON WHITE-6 INCH LETTER HEIGHT.

A MINIMUM 21 DAY NOTICE- IN WRITING-SHALL BE GIVEN TO THE RESIDENT ENGINEER AND TRAFFIC OPERATIONS ENGINEER (ANNA GHIDINA) PRIOR TO CLOSING OF THE BRIDGE.

TYPICAL SIGN SPACING SHALL BE 500' ON TWO LANE ROADS, 1000' ON NB US 67, 350' ON SB US 67, AND 200' ON RESIDENTIAL

STREETS.

### TEMPORARY RUMBLE STRIPS

TEMPORARY RUMBLE STRIPS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS (THREE RUMBLE STRIPS EACH LOCATION FOR A TOTAL OF TWELVE RUMBLE STRIPS):

- NB IL 94 SOUTH OF IL 94 / IL 164 INTERSECTION
- SB IL 94 NORTH OF IL 94 / IL 164 INTERSECTION
- NB IL 135 SOUTH OF IL 135 / IL 164 INTERSECTION
- SB IL 135 NORTH OF INTERSECTION OF IL 135 / IL 164.

TEMPORARY RUMBLE STRIPS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).

## DETOUR PLAN SHEETS

MODEL: Default  
 FILE: \\nas01c.pw.state.il.us\pub\baronm.d\at\links\gov\PIWDOT\Documents\DOT\_Offices\District\_4\Projects\ID4\_68DB6\CADD\Main\CAD\Sheets\68DB6\_Full\_Plan\_Signs.dgn

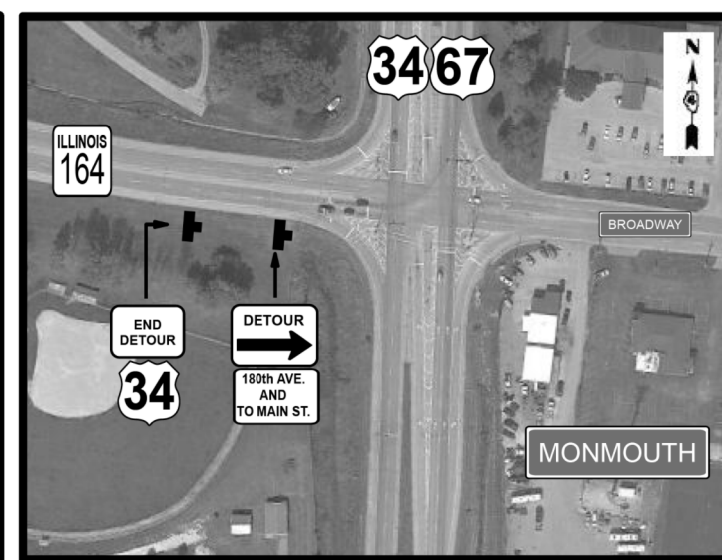
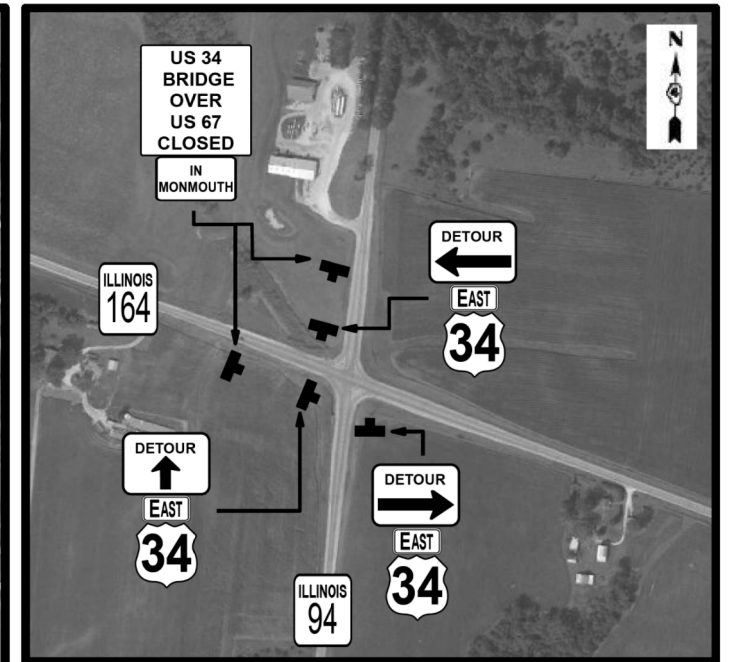
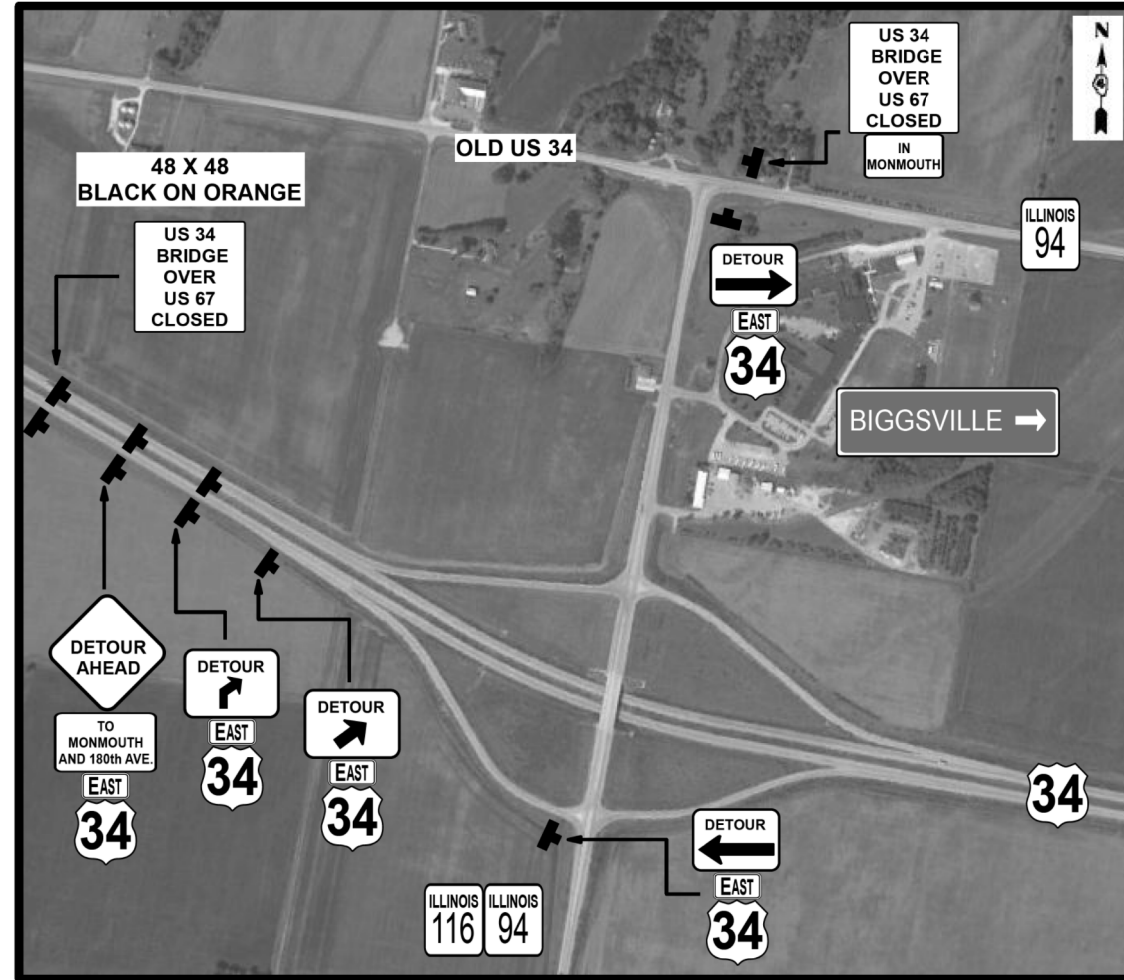
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PLOT DATE = 12/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

### DETOUR PLAN SHEETS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[4HB;101VB-1]BR	WARREN	38	30
* 310/313			CONTRACT NO. 68DB6	
		ILLINOIS	FED. AID PROJECT	



**DETOUR PLAN SHEETS**

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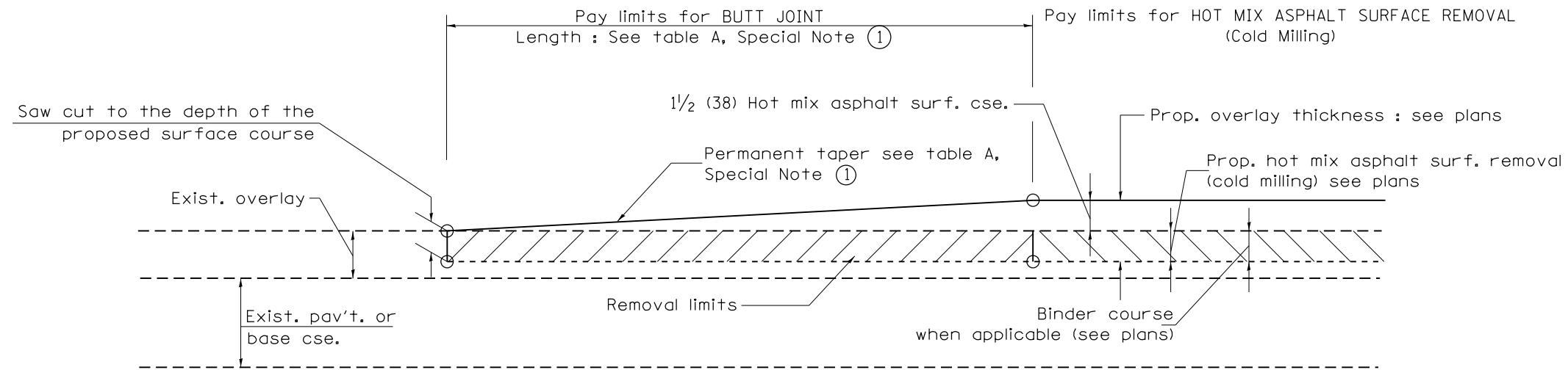
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PLOT DATE = 10/23/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN SHEETS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[4HB;101VB-1]BR	WARREN	38	31
* 310/313			CONTRACT NO. 68D86	
ILLINOIS FED. AID PROJECT				



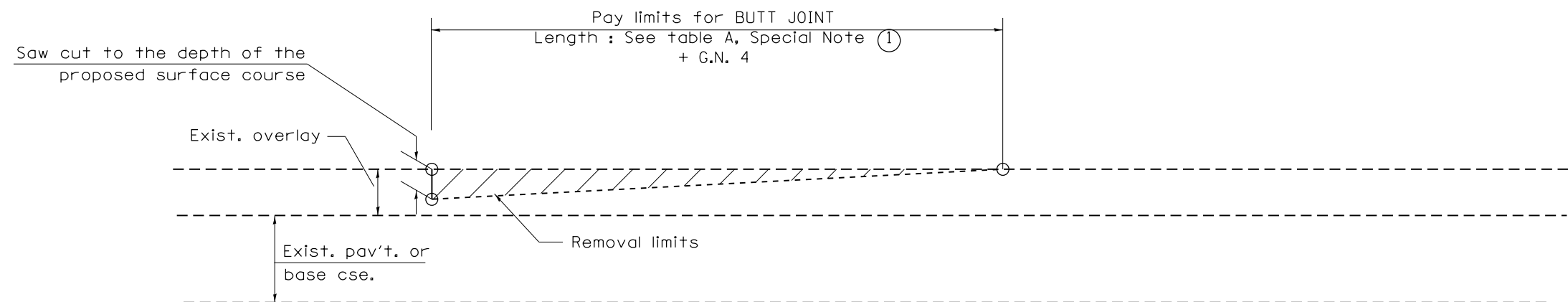
**CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

**TABLE A  
TAPER RATES**

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	BUTT JOINT TAPER RATE	1:480	1:240
②	TEMPORARY RAMP TAPER RATE	1:80	1:40

**GENERAL NOTES**

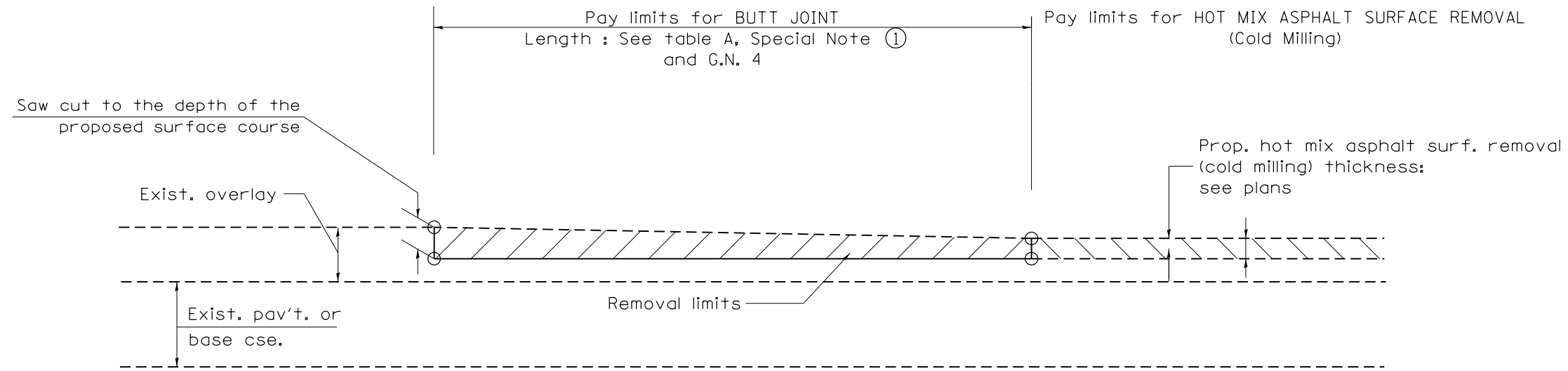
1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.
4. The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.
5. Temporary ramps are paid for separately and not included in the cost of the butt joints.



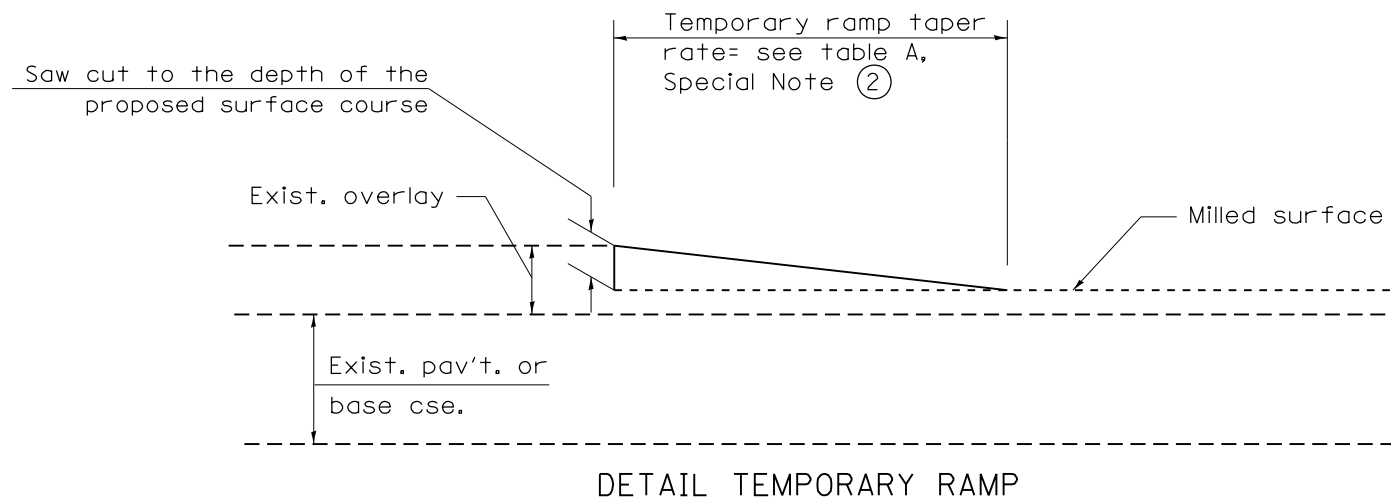
**CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

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



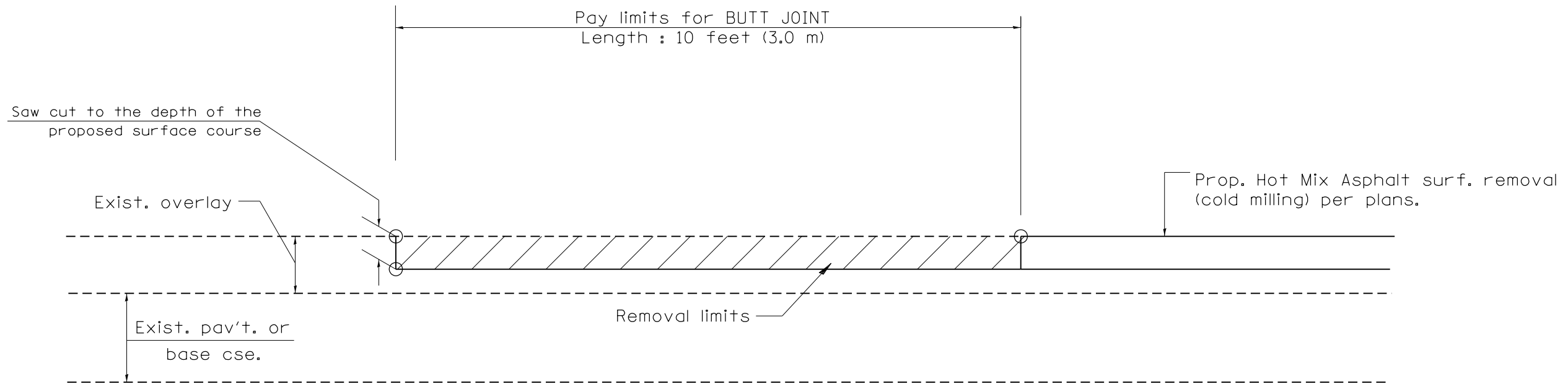


CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER



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

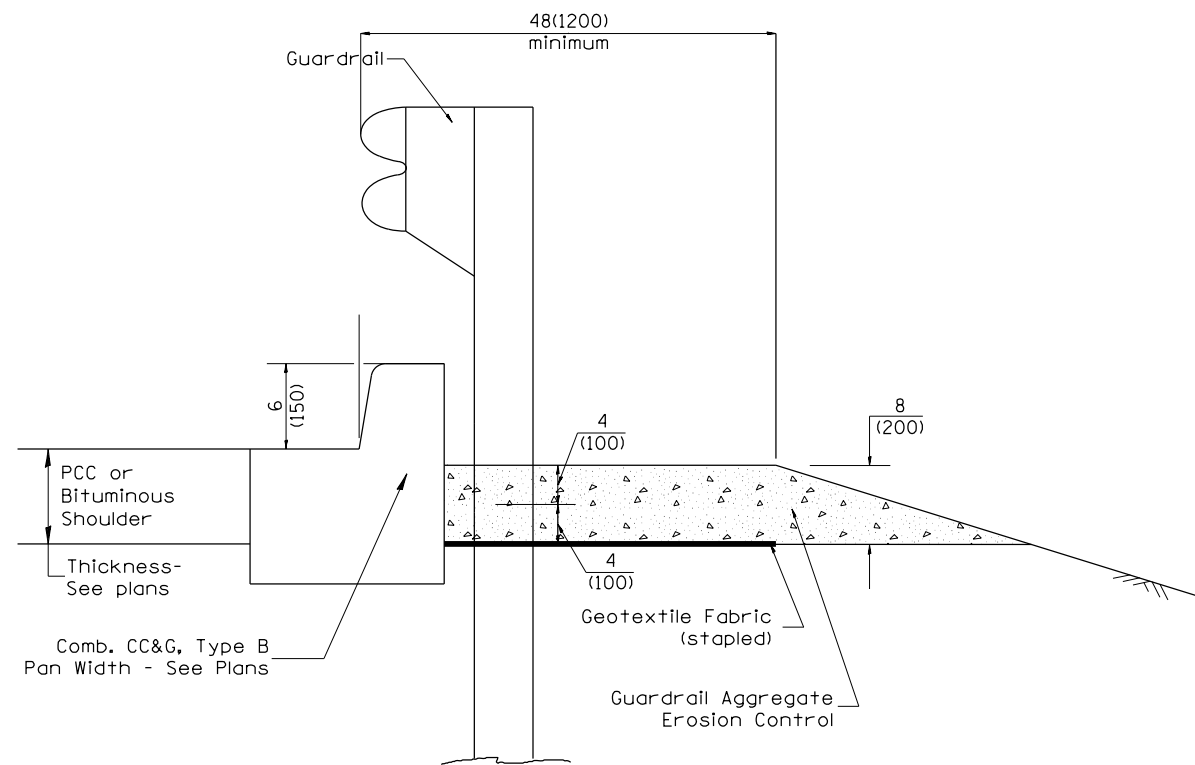
				<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>		<b>BUTT JOINTS</b>		SHT. 2 OF 3 CADD STD. 406101-D4	
				NOT TO SCALE				* 310/313 CONTRACT NO. 68D86	
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
	[4HB:101VB-1]BR	WARREN	38	33					
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT							



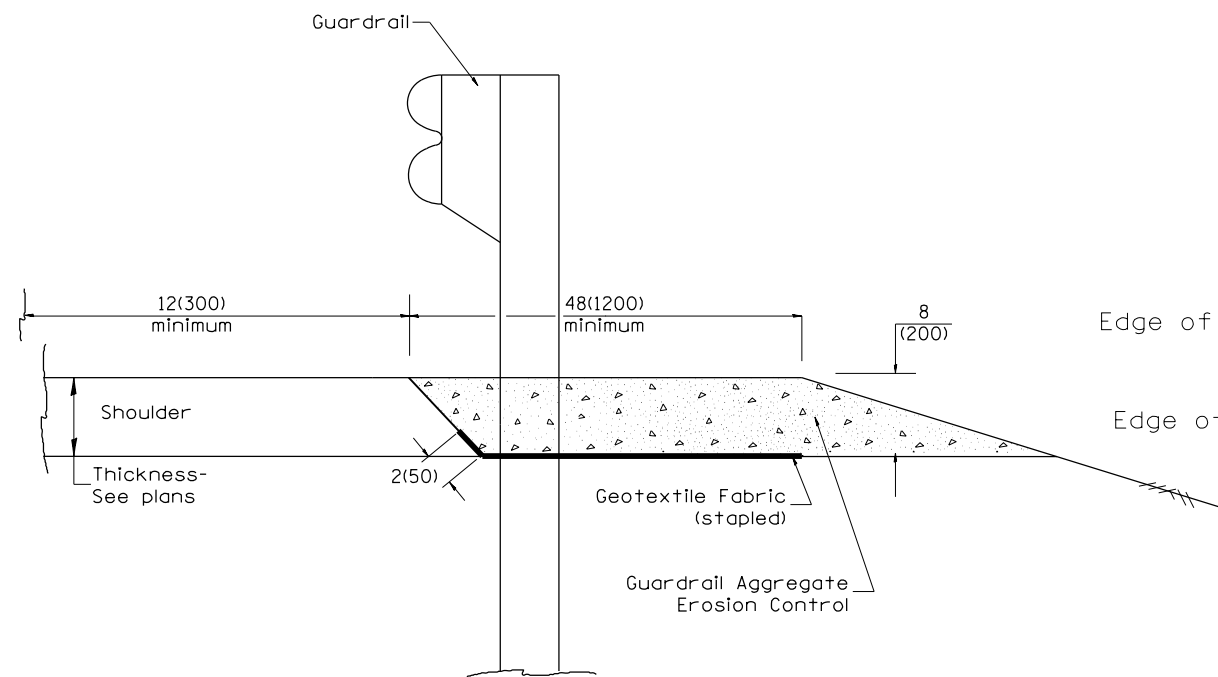
**CASE 4 : SINGLE LIFT OVERLAY WITH EQUIVALENT DEPTH**  
**HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**  
**TIE-IN TO EXISTING BITUMINOUS TAPER**

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

		<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>BUTT JOINTS</b>	SHT. 3 OF 3 CADD STD. 406101-D4	<table border="1"> <tr> <th>F.A.P. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td align="center">•</td> <td>[4HB:101VB-1]BR</td> <td align="center">WARREN</td> <td align="center">38</td> <td align="center">34</td> </tr> <tr> <td colspan="3">           * 310/313            FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT         </td> <td align="center" colspan="2"> <b>CONTRACT NO. 68D86</b> </td> </tr> </table>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	•	[4HB:101VB-1]BR	WARREN	38	34	* 310/313 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			<b>CONTRACT NO. 68D86</b>	
F.A.P. RTE.	SECTION				COUNTY	TOTAL SHEETS	SHEET NO.													
•	[4HB:101VB-1]BR	WARREN	38	34																
* 310/313 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			<b>CONTRACT NO. 68D86</b>																	
			NOT TO SCALE																	



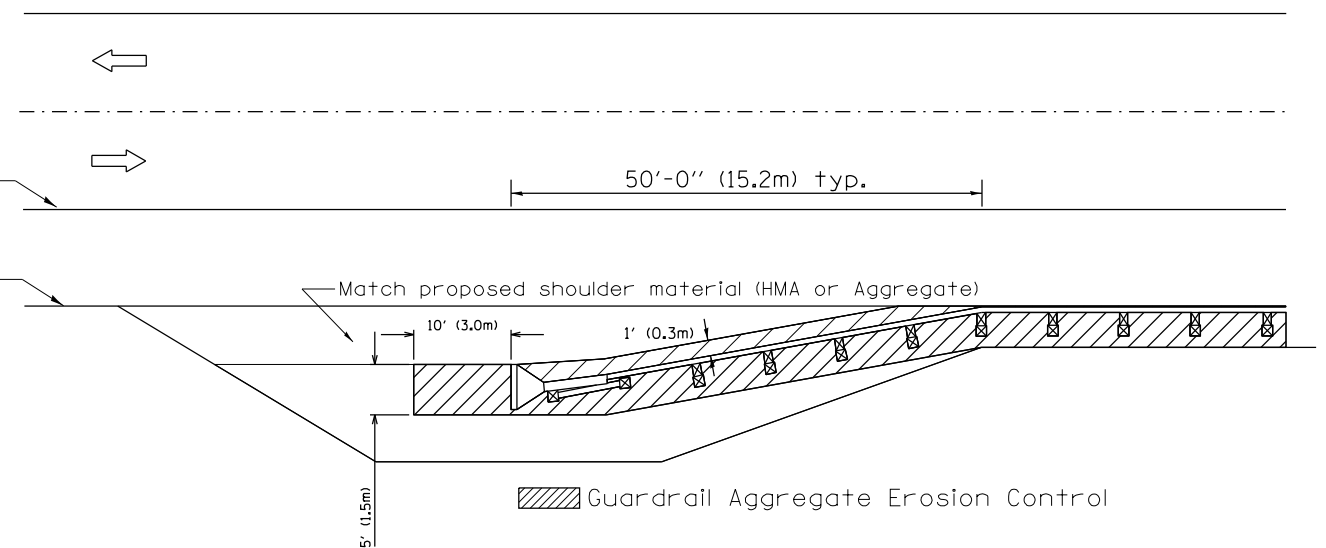
TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
  - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
  - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



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

03-07-11	ADDED DETAIL SHOWING PLAN VIEW	R.D.	5-30-18	CHANGE B CURB TO CC&G	R.D.
08-10-12	REVISED CURB "B" AND AGGREGATE	R.D.	07-16-19	SPELLING CORRECTIONS	R.D.
07-15-15	ADDRESSED SHOULDER INLET CURB	R.D.			
01-26-17	REVISED	R.D.			

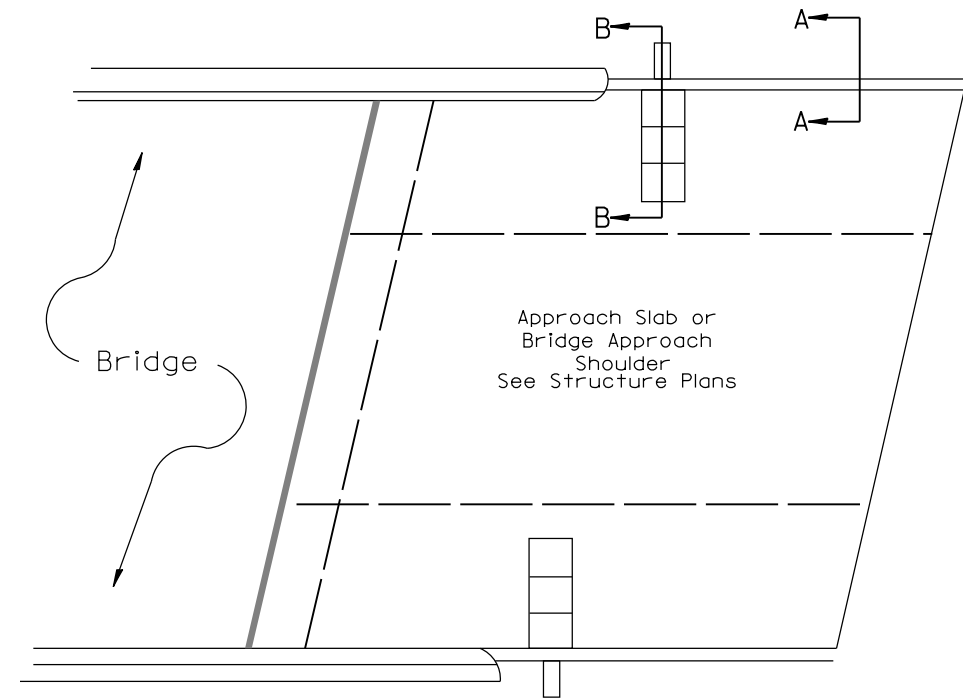
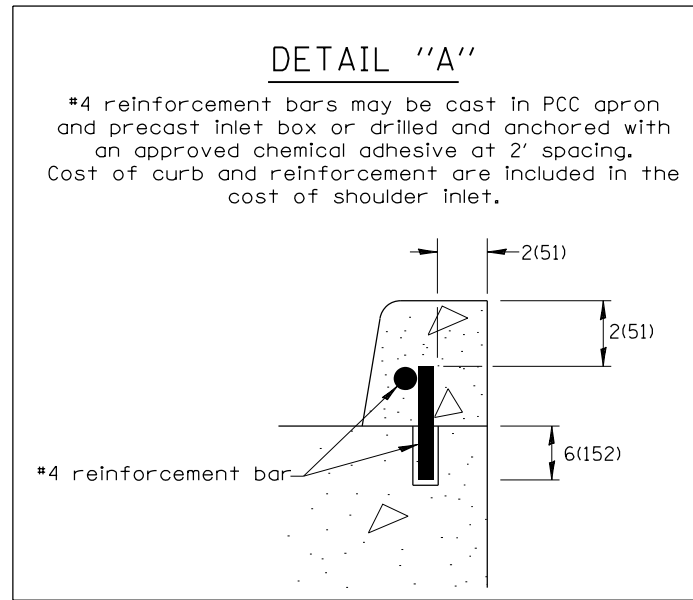
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

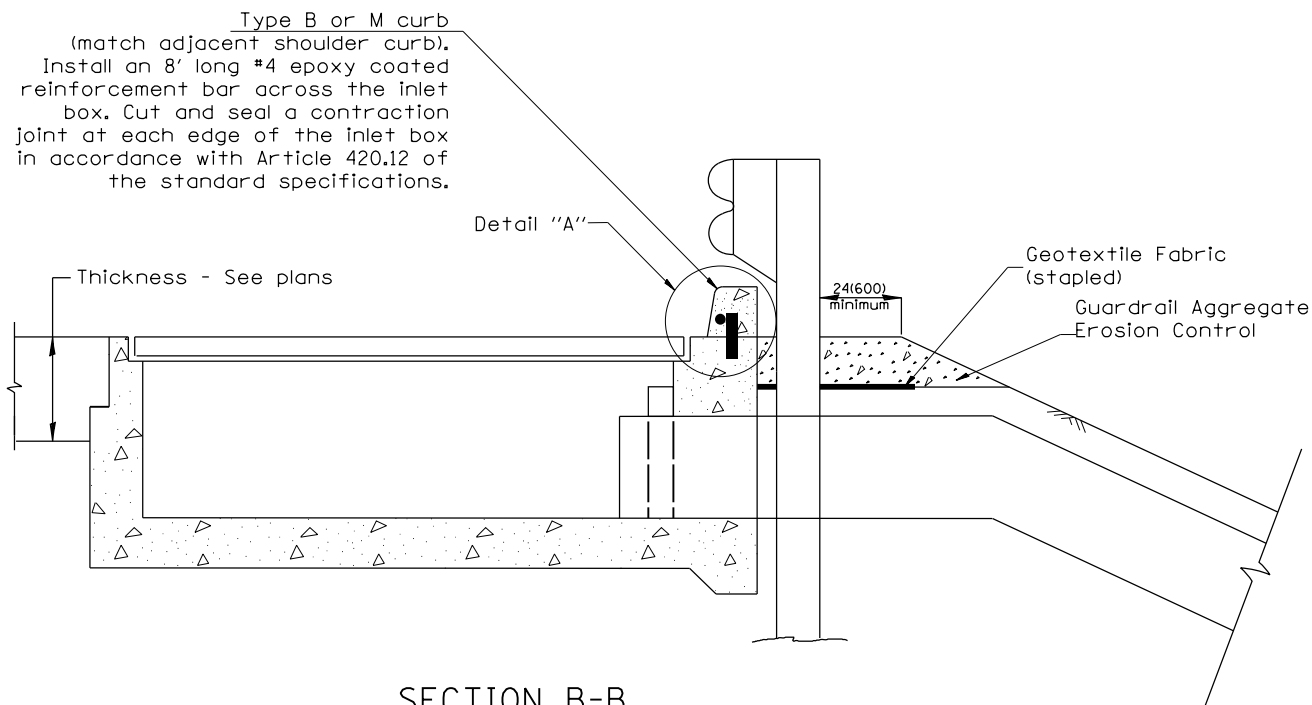
GUARDRAIL EROSION CONTROL TREATMENTS

SHT. 1 OF 2  
CADD STD. 630101-D4

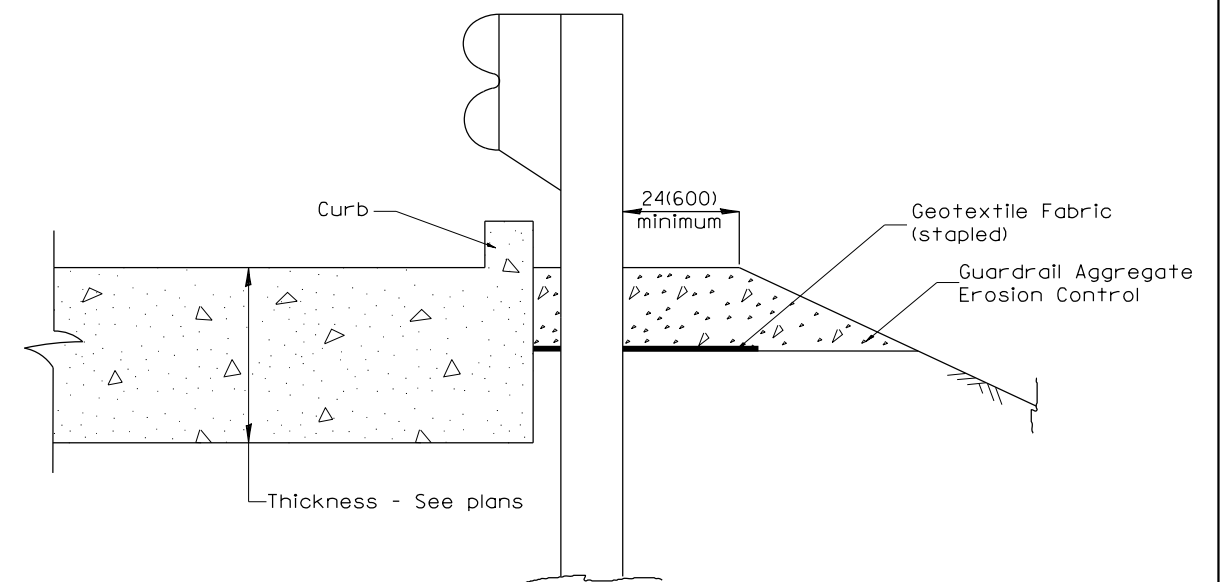
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*	[4HB:101VB-1]BR	WARREN	38	35
* 310/313			CONTRACT NO. 68D86	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**PLAN VIEW**  
**APPROACH SLAB OR SHOULDER PLACEMENT**



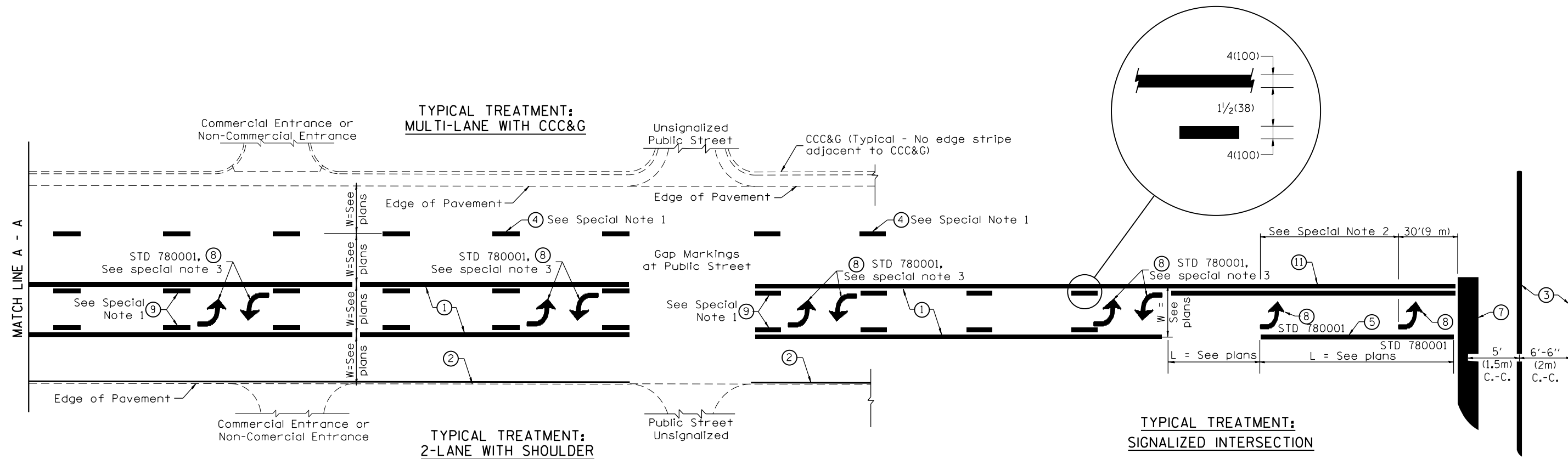
**SECTION B-B**  
**TYPICAL SECTION AT INLETS**  
**TYPE E, F & G (HIGHWAY STANDARD 610001)**



**SECTION A-A**  
**TYPICAL SECTION WITH BRIDGE APPROACH CURB**

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

<b>STATE OF ILLINOIS</b>				<b>GUARDRAIL EROSION CONTROL TREATMENTS</b>				TOTAL SHEETS	SHEET NO.
<b>DEPARTMENT OF TRANSPORTATION</b>				NOT TO SCALE				36	38
SHT. 2 OF 2				CADD STD. 630101-D4				CONTRACT NO. 68D86	
FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT					



**FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION**

**TYPICAL PAVEMENT MARKING LEGEND**

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)  
2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A) ⑩
- ⑪ 4(100) Double Solid (Yellow) ⑪

**SPECIAL NOTES**

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
  - A. A minimum of two (2) arrows is required.
  - B. The maximum spacing between arrows is 80' (24 m).
  - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
  - A. A minimum of two (2) arrow pairs is required.
  - B. The maximum spacing between arrow pairs is 200' (61 m).
  - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
  - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

**GENERAL NOTES**

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond each edge for the following symbols:  
Through Arrow= 14.8 sq. ft.  
Large Left or Right Arrow= 21.9 sq. ft.  
2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.  
Wrong Way Arrow= 29.5 sq. ft.  
Railroad Crossing Symbol= 69.8 sq. ft.  
(For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.	07-16-19	SPELLING CORRECTIONS	R.D.
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.			

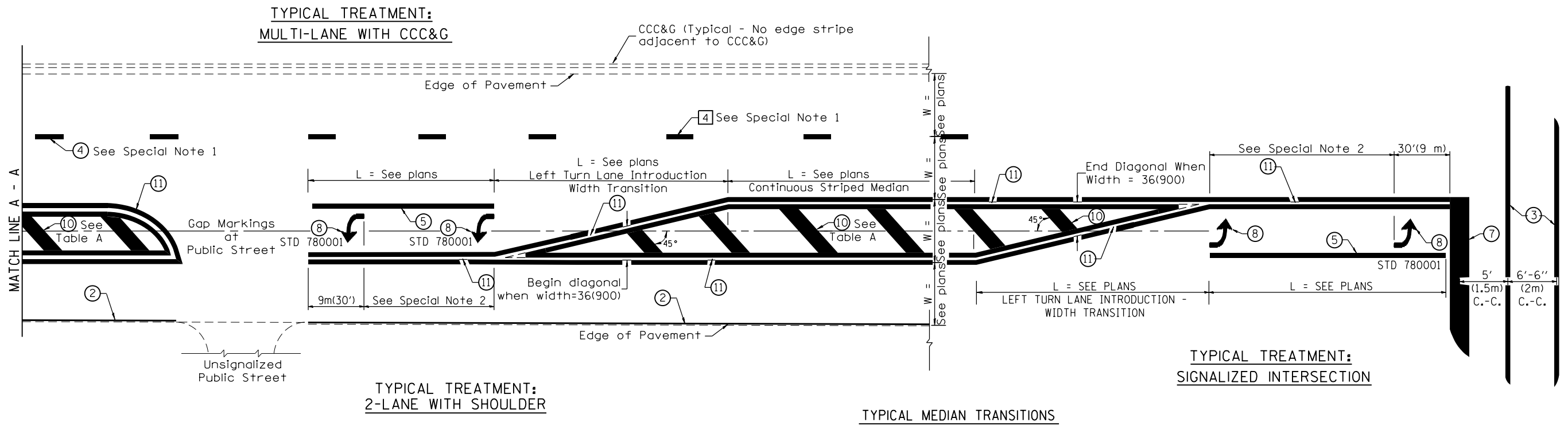
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

**TYPICAL PAVEMENT MARKINGS**

SHT. 1 OF 2  
CADD STD. 780001-D4

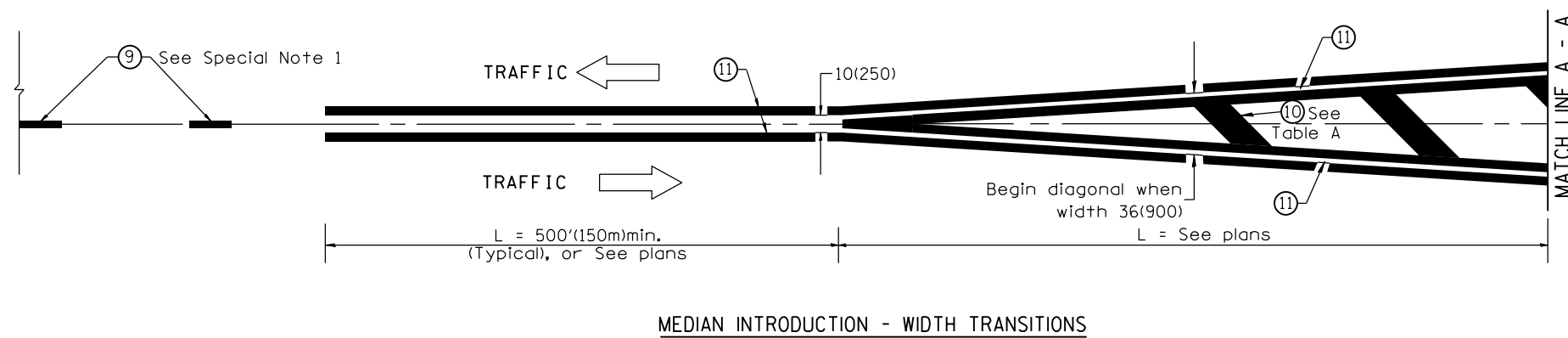
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[4HB:101VB-1]BR	WARREN	38	37
* 310/313			CONTRACT NO. 68D86	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE**

**TABLE A**  
RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)	
	CONTINUOUS	
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



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

US 67 & US 34 INTERCHANGE - OVERHEAD LIGHTING SCHEDULE OF QUANTITIES		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	18.0
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1.0
BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	64.0

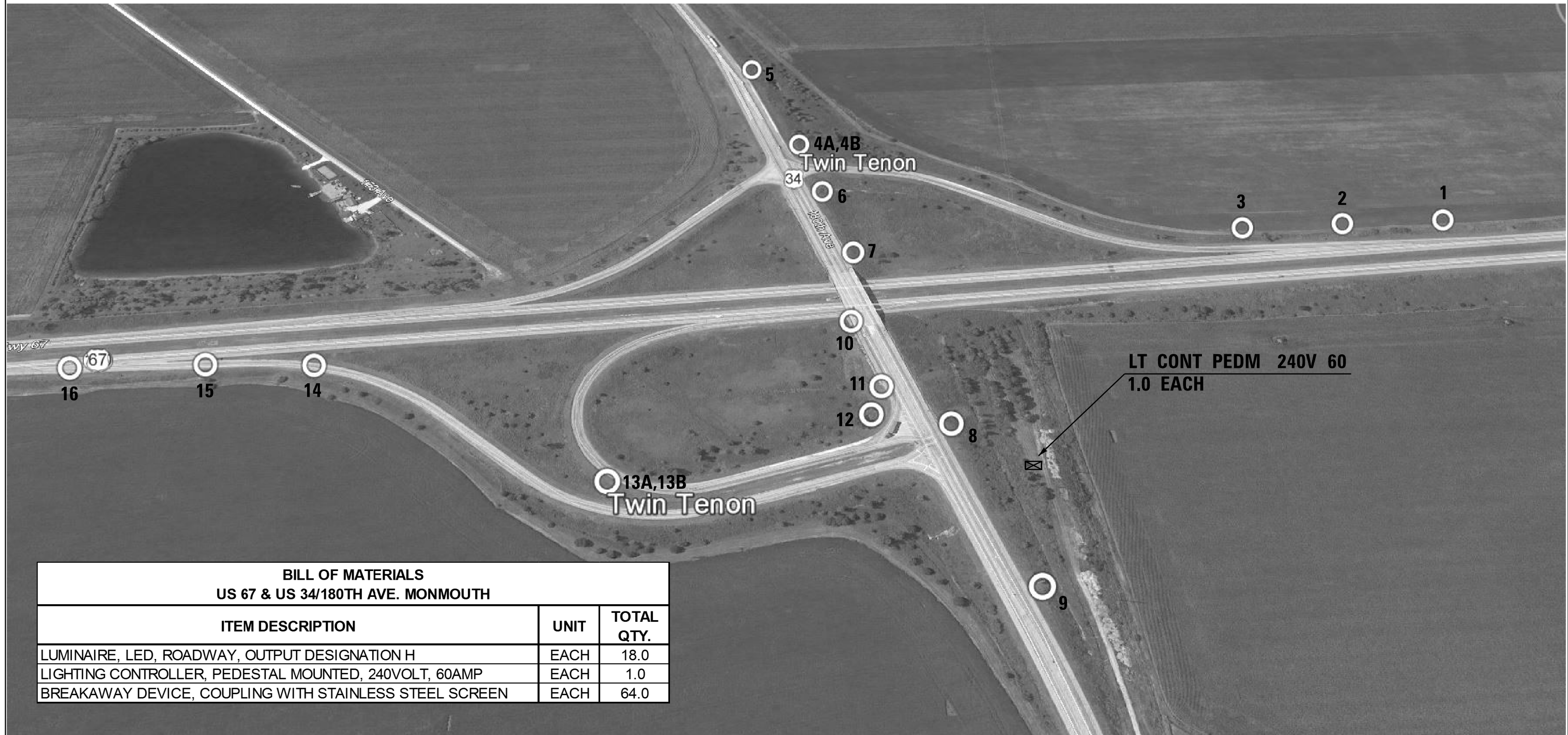
ROUTE	LOCATION	EX. LUMINAIRE MOUNTING HEIGHT	EX. LUMINAIRE TYPE AND WATTAGE	EX. LUMINAIRE VOLTAGE	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	NOTES
US 67	US 34/180TH AVE.	45 FT. (POLES)	HPS, 250W, MULTIMOUNT	240 VOLT	18	FURNISH 1 FT. ARM AND INSTALL ON EX. TENON TOP LIGHT POLES, FURNISH AND INSTALL NEW SURGE ARRESTOR, FUSEHOLDER, FUSES, AND LUMINAIRE WIRING IN ACCORDANCE WITH HIGHWAY STANDARD 821101-02

**CONSTRUCTION NOTES**

1. EXISTING UTILITY LOCATION INFORMATION IS NOT SHOWN ON THE PLAN SHEETS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES PRIOR TO THE INSTALLATION OF ANY COMPONENTS. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS AND TERRAIN PRIOR TO COMMENCING WORK ON THE PROJECT.
2. THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE IF REQUIRED. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
4. ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
5. THE CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE SLACK IN ACCORDANCE WITH ARTICLE 873.03 UNLESS SPECIFIED OTHERWISE.
6. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATION.
7. ANY MAINTENANCE OF EXISTING ELECTRICAL FACILITIES WILL BE CONSIDERED EXTRA WORK IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
8. THE EXISTING LIGHTING SHALL REMAIN IN OPERATION DURING THE INSTALLATION OF THE PROPOSED LUMINAIRES.
9. REMOVAL OF EXISTING ITEMS (LUMINAIRES, WIRING, ETC.) WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES FOR THE PROPOSED ITEMS. THE CONTRACTOR SHALL DISPOSE OF ALL ITEMS OFF THE RIGHT OF WAY.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW FUSEHOLDERS, FUSES, SURGE ARRESTORS, AND WIRING FOR EACH LUMINAIRE IN ACCORDANCE WITH HIGHWAY STANDARD 821101-02. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED LUMINAIRES.
11. THE CONTRACTOR SHALL REMOVE HPS LAMPS FROM THE EXISTING FIXTURES PRIOR TO DISPOSAL. THE HPS LAMP SHALL BE DISPOSED OF AT A CERTIFIED RECYCLING FACILITY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED LUMINAIRES.
12. THE CONTRACTOR SHALL FURNISH 1 FT. GALVANIZED STEEL LUMINAIRE ARMS AND INSTALL THEM ONTO THE EXISTING TENON TOP LIGHT POLES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED LUMINAIRES.
13. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW STAINLESS STEEL OR PERFORATED ALUMINUM SCREENING AROUND AN EXISTING LIGHT POLE. THE CONTRACTOR SHALL REMOVE THE EXISTING SCREEN AND DISPOSE OF IT OFF THE RIGHT OF WAY. THE PROPOSED SCREEN SHALL BE SECURELY BANDED ON THE TOP AND BOTTOM OF THE BREAK-AWAY COUPLINGS TO PREVENT RODENT ENTRY AND NO GAPS IN EXCESS OF 0.25 INCH WILL BE ALLOWED. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN".
14. THE CONTRACTOR SHALL REMOVE THE BREAKAWAY COUPLINGS FROM THE EXISTING LIGHT POLES. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW BREAKAWAY COUPLINGS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL FURNISH ALL HARDWARE AND OTHER ITEMS REQUIRED FOR INSTALLATION OF THE BREAKAWAY COUPLINGS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN".

FILE NAME =	USER NAME = \$USER*	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHTING CONSTRUCTION NOTES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*\$FILEL\$		DRAWN -	REVISED -			310 313	[4HB;101VB-1]BR	WARREN	Z	X	
	PLOT SCALE = \$SCALE*	CHECKED -	REVISED -			CONTRACT NO. 68D86					
	PLOT DATE = \$DATE*	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	STA.	TO STA.				





BILL OF MATERIALS US 67 & US 34/180TH AVE. MONMOUTH		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	18.0
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1.0
BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	64.0

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D:\common\GEN\Transfer - bureaus\68D86	- US 67 & US 34 Overhead Lighting Addendum	DRAWN US 67 & US 34 Lighting Addendum	REVISED 25-191.dgn
	PLOT SCALE = 38.0588' / in.	CHECKED -	REVISED -
	PLOT DATE = 11/30/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LUMINAIRE AND BREAKAWAY COUPLING REPLACEMENT  
US 67/34 & US 34/180TH AVENUE INTERCHANGE**

SCALE: \_\_\_\_\_ STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310 313	[4HB;101VB-1]BR	WARREN	Z	X
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68D86	



## Luminaire Performance Table



### Project

Date	Contract Number	Section Number	County
11/14/19	68D86	N/A	Warren
Marked Route Number		Municipality	
US 34/67 & US 34/180 Ave.		City of Monmouth	

### Roadway

Lane Width	# of Lanes	Median Width	I.E.S. Surface Classification	Q-Zero Value
12 ft	2	0 FT	R3	0.07

### Structure

Mounting Height	Arm Length	Set-Back	Number of Luminaires (Highmast & Sign Lighting Only)
45'	1'	30'	N/A

### Luminaire

Description	I.E.S. Lateral Distribution	I.E.S. Vertical Distribution	
Roadway Output Designation H	Type III	Medium	
Total Light Loss Factor (LLF)	B-U-G Rating	Shields	Dimming Protocol
0.684	U = 0	N/A	0-10V

### Layout

Spacing (to Nearest 5 ft)	Configuration (Opposite, Staggered, 1 Sided, or Median)
280 ft	1 sided

### Performance

Average Illuminance, $E_{AVE}$ (fc)	Uniformity Ratio, $E_{AVE}/E_{MIN}$		
0.9	3.0:1		
Average Luminance, $L_{AVE}$ (cd/m <sup>2</sup> )	Uniformity Ratio, $L_{AVE}/L_{MIN}$	Uniformity Ratio, $L_{MAX}/L_{MIN}$	Veiling Luminance Ratio, $L_v/L_{AVE}$
0.6	3.5:1	6.0:1	0.3:1

### Light Trespass

Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, $E_H$	Max. Vertical Illuminance at ROW, $E_v$
N/A	N/A	N/A

### Notes

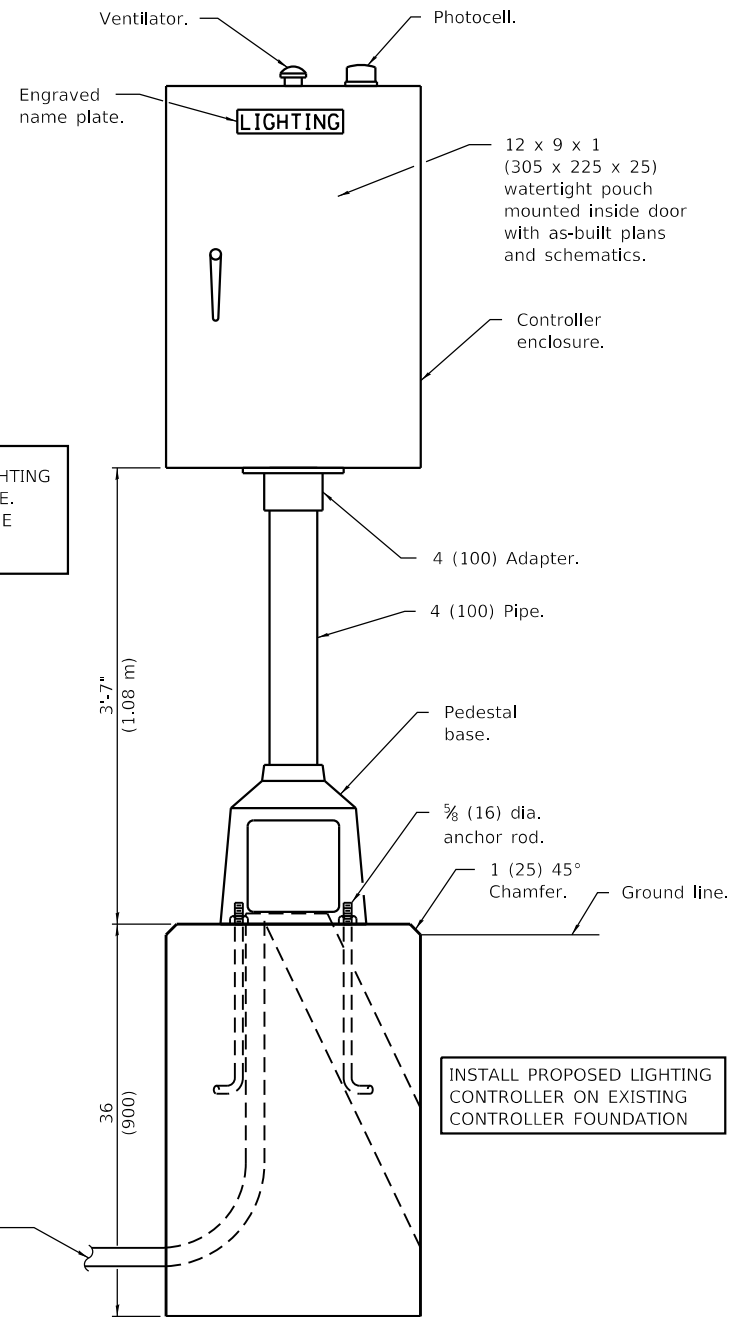
- Set-Back is from Edge of Pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire.
- Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
- Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95.
- Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

Calculations shall be performed with 2 lanes in each direction with a 0' wide median

Printed 11/30/19

BDE 5630 (04/10/19)

FILE NAME =	USER NAME = \$USER*	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LUMINAIRE PERFORMANCE TABLE US 3467 &amp; US 34180TH AVENUE INTERCHANGE</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILEL*		DRAWN -	REVISED -			310		WARREN	Z	X
		CHECKED -	REVISED -			313	[4HB;101VB-1]BR			
		DATE -	REVISED -			CONTRACT NO. 68D86		ILLINOIS FED. AID PROJECT		
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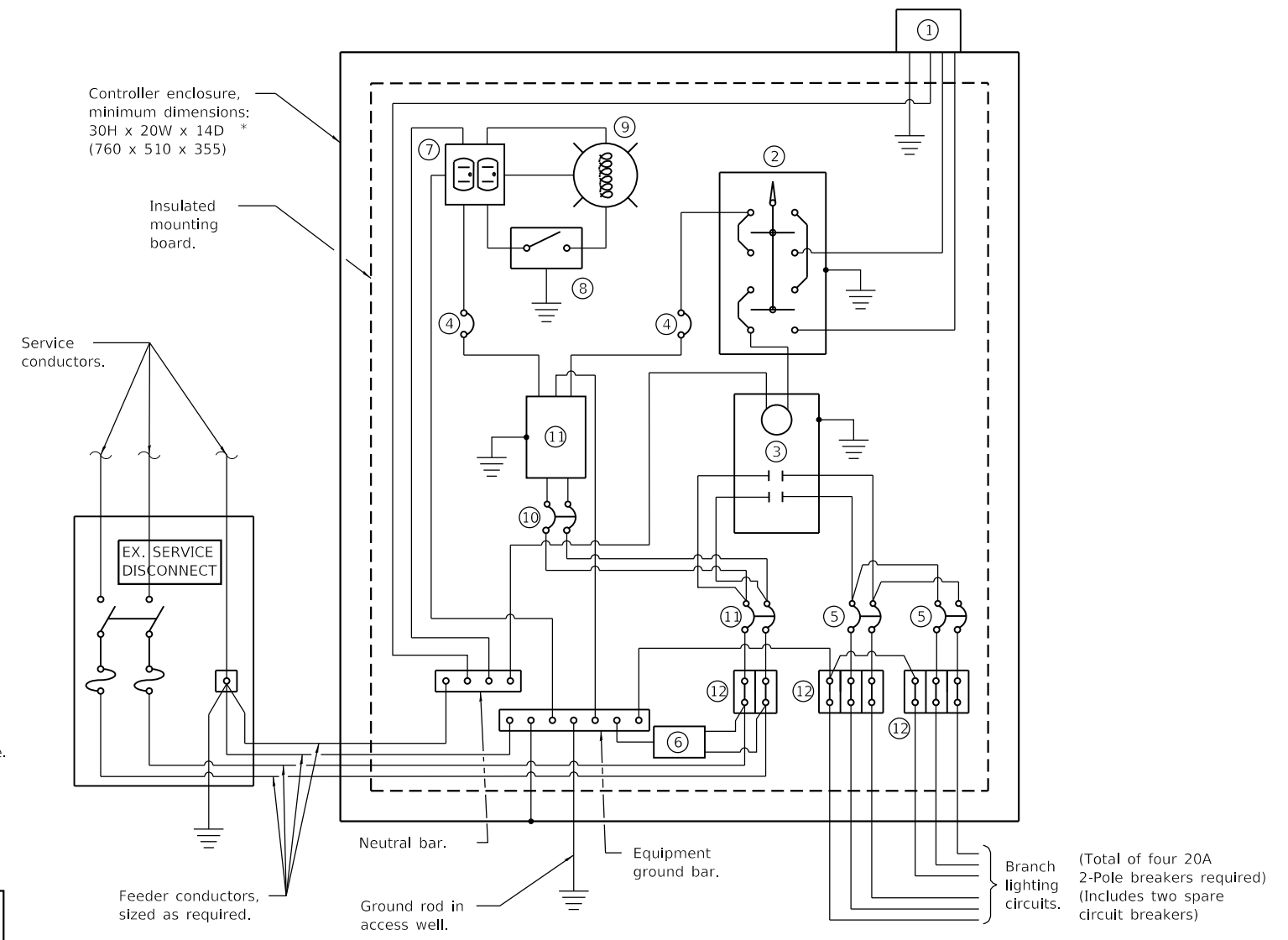


THE CONTRACTOR SHALL REMOVE THE EXISTING LIGHTING CONTROLLER AND DISPOSE OF IT FROM THE JOB SITE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED LIGHTING CONTROLLER

INSTALL PROPOSED LIGHTING CONTROLLER ON EXISTING CONTROLLER FOUNDATION

**THE PROPOSED LIGHTING CONTROLLER WILL BE INSTALLED ON THE EXISTING CONTROLLER FOUNDATION**

**THE EXISTING SERVICE INSTALLATION WILL REMAIN IS USE WITH THE PROPOSED LIGHTING CONTROLLER**

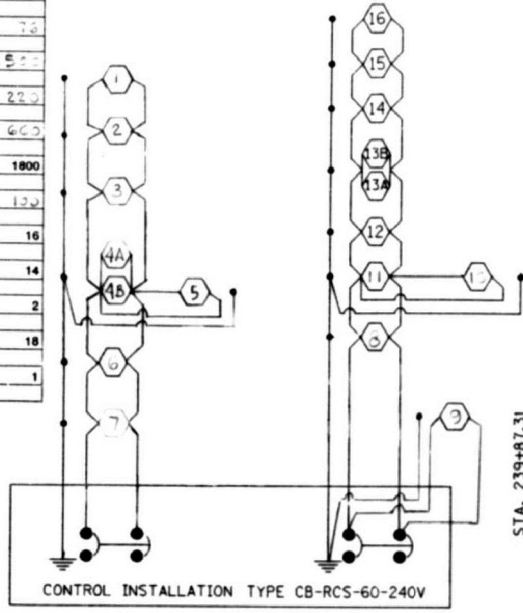


**CONTROL SCHEMATIC**

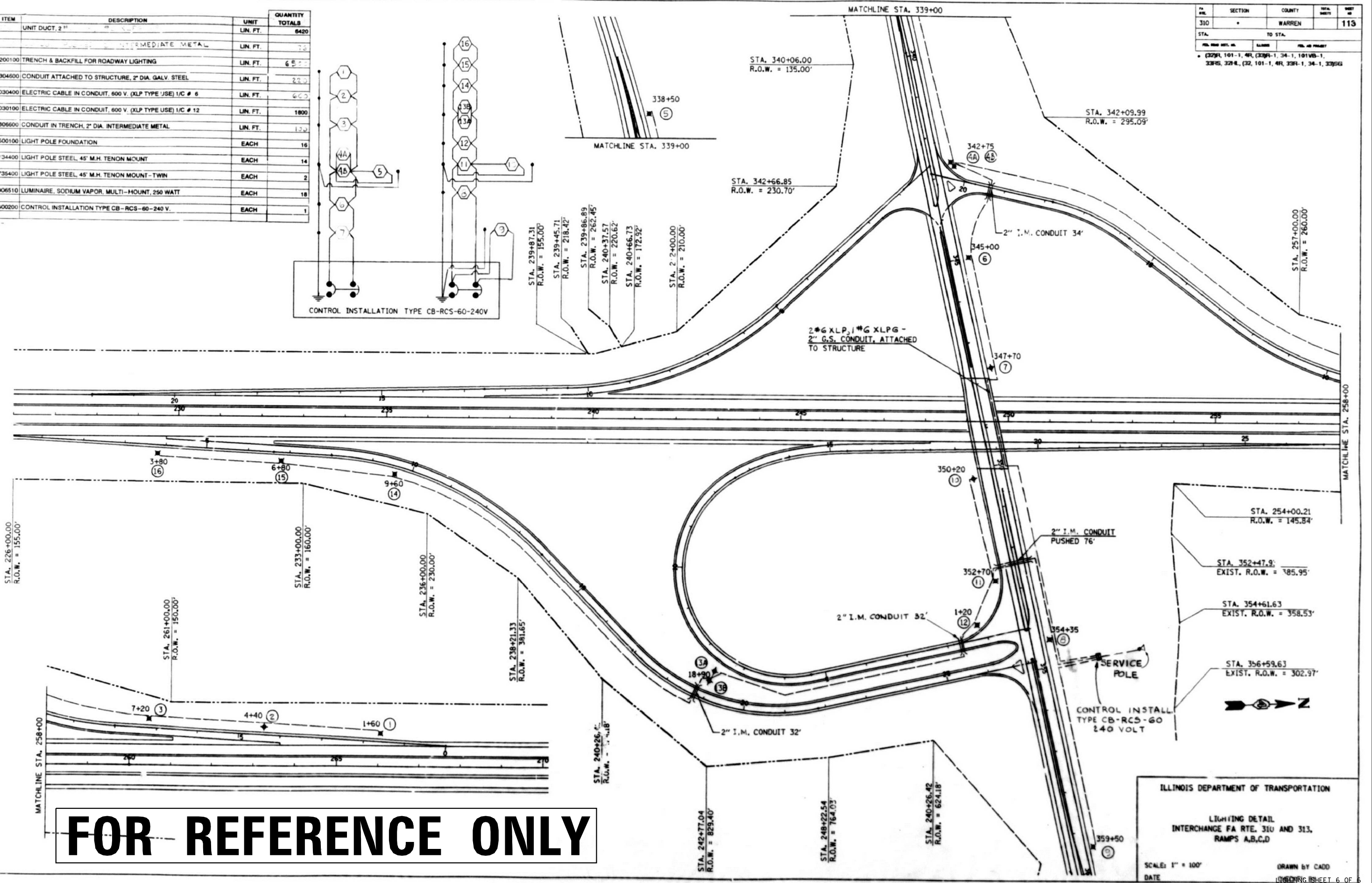
- ① Photocell with integral surge arrester.
- ② HAND-OFF-AUTO selector switch.
- ③ 60 amp, electrically held contactor.
- ④ 15 amp, 1-pole circuit breaker.
- ⑤ 20 amp\*, 2-pole circuit breaker (two spares required but not shown).
- ⑥ Surge arrester.
- ⑦ GFCI duplex receptacle.
- ⑧ Single-pole, single-throw switch.
- ⑨ Light Fixture, enclosed and gasketed with 800 Lumen LED lightbulb.
- ⑩ 15 amp, 2-pole circuit breaker.
- ⑪ 60 amp\*, 2-pole circuit breaker.
- ⑫ Terminal block sized for conductors as shown on plans.

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

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
	UNIT DUCT, 2"	LIN. FT.	6420
	INTERMEDIATE METAL	LIN. FT.	78
66200100	TRENCH & BACKFILL FOR ROADWAY LIGHTING	LIN. FT.	6500
66304600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA. GALV. STEEL	LIN. FT.	220
66030400	ELECTRIC CABLE IN CONDUIT, 600 V. (XLP TYPE USE) 1/C # 6	LIN. FT.	600
66030100	ELECTRIC CABLE IN CONDUIT, 600 V. (XLP TYPE USE) 1/C # 12	LIN. FT.	1800
66306600	CONDUIT IN TRENCH, 2" DIA. INTERMEDIATE METAL	LIN. FT.	100
66500100	LIGHT POLE FOUNDATION	EACH	16
66734400	LIGHT POLE STEEL, 45' M.H. TENON MOUNT	EACH	14
66735400	LIGHT POLE STEEL, 45' M.H. TENON MOUNT-TWIN	EACH	2
66906510	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	18
66400200	CONTROL INSTALLATION TYPE CB-RCS-60-240 V.	EACH	1



SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	WARREN		113



**FOR REFERENCE ONLY**

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING DETAIL  
INTERCHANGE FA RTE. 310 AND 313,  
RAMPS A,B,C,D

SCALE: 1" = 100'

DATE: \_\_\_\_\_ DRAWN BY CADD

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING LIGHTING PLANS US 3467 & US 34180TH AVENUE INTERCHANGE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL*		DRAWN -	REVISED -			310	[4HB;101VB-1]BR	WARREN	Z	X	
		CHECKED -	REVISED -			CONTRACT NO. 68D86					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					