

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

# Anthony Lee Washington III

2024.11.19 12:35:37-06'00'
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HDR ENGINEERING, INC. 120 BRENTWOOD COMMONS WAY SUITE 525 BRENTWOOD, TN 37027 ANTHONY L. WASHINGTON III, P.E. NO. 119749

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NO. SHEET NAME ....ROADWAY-SIGN1 SIGNATURE SHEET ..... TITLE SHEET ..... ROADWAY INDEX, STANDARD ROADWAY DRAWINGS, AND STANDARD TRAFFIC OPERATIONS DRAWINGS ..... PROJECT COMMITMENTS ... ESTIMATED ROADWAY QUANTITIES ..... ...2B, 2B1 TYPICAL SECTIONS AND PAVEMENT SCHEDULE ..... ...2C, 2C1 GENERAL NOTES..... ..2D SPECIAL NOTES..... ..2E, 2E1 ENVIRONMENTAL NOTES..... TABULATED QUANTITIES .. UTILITY NOTES AND UTILITY OWNERS ..... PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL...

YEAR	PROJECT NO.	SHEET NO.
2025	NH/HSIP-15(231)	ROADWAY-SIGN 1

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

> SIGNATURE SHEET

Index Of Sheets SEE SHEET NO. 1A

# STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

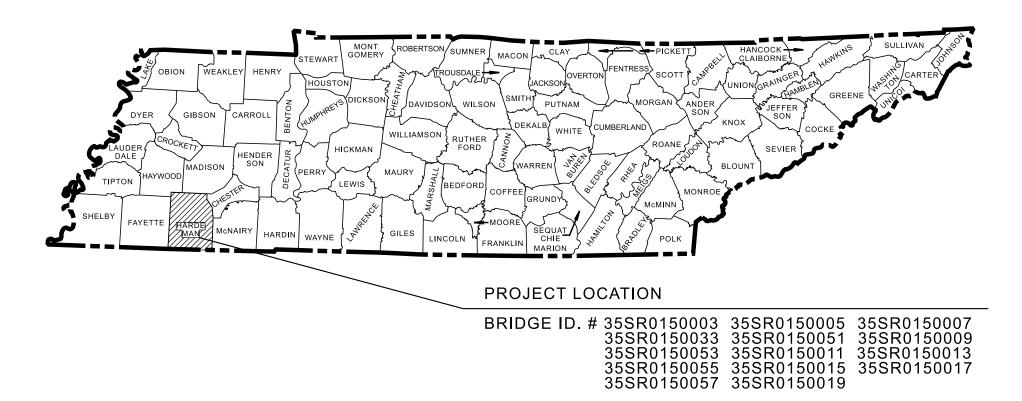
DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES	NO X		
WORK ZONE SIGNIFICANCE DETERMINATION				
SIGNIFICANT	YES	NO X		

TENINI	YEAR	SHEET NO.
TENN.	2025	
FED. AID PROJ. NO.	NH/HSIF	P-15(231)
STATE PROJ. NO.	35S015	5-F8-005
STATE PROJ. NO.	35S015-F3-005	
STATE PROJ. NO.	35S015	5-M3-006

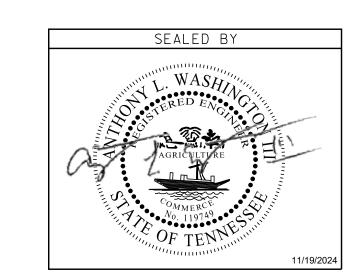
# HARDEMAN COUNTY

S.R. 15

MILL, 411D, GUARDRAIL, CURB RAMPS, PAVEMENT MARKINGS



**EXCLUSIONS** STATION TO STATION LENGTH (FT.) 2164.80 11.92 - 12.33 2164.80 TOTAL=



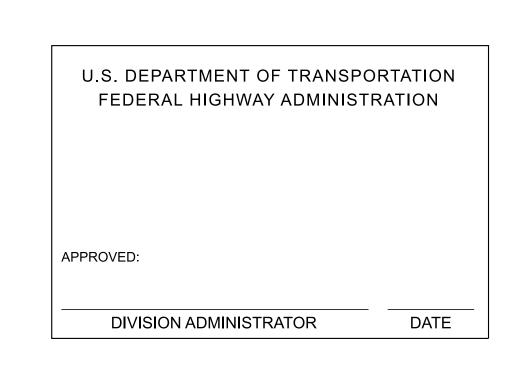
TRAFFIC COUNTER &			
WEATHER STA	TIONS		
STATION LOCATION	LOG MILE		
TC STATION 23	12.144		
TC STATION 103	13.033		
TC STATION 71	13.313		
TC STATION 70	13.650		
TC STATION 27	14.568		

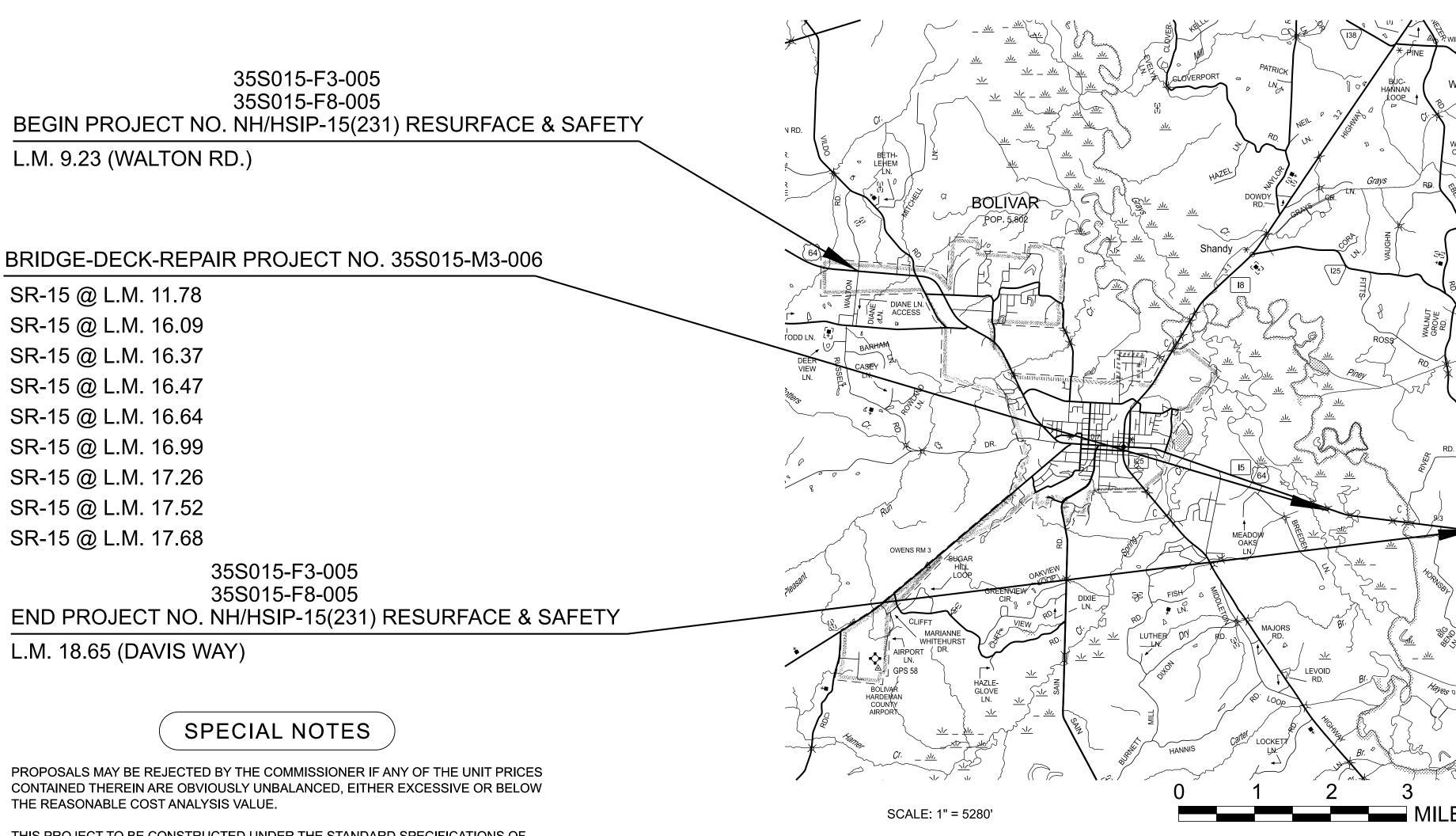
APPROVED:	Mill
	WILL REID, CHIEF ENGINEER
DATE:	
-	
APPROVED:	Hal Killer
	por provens

HOWARD H. ELEY,

COMMISSIONER

TRAFFIC DATA				
ADT (2025)	15,350			
POSTED SPEED	LIMITS			
L.M. 9.23 TO L.M. 9.81	65 MPH			
L.M. 9.81 TO L.M. 10.86	55 MPH			
L.M. 10.86 TO L.M. 12.23	45 MPH			
L.M. 12.23 TO L.M. 12.94	40 MPH			
L.M. 12.94 TO L.M. 14.43	30 MPH			
L.M. 14.43 TO L.M. 16.02	45 MPH			
L.M. 16.02 TO L.M. 18.65	55 MPH			





THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2021 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

CHECKED BY DAVID HORNE, P.E.

TDOT PROJECT MANAGER:

LYNN EVANS, P.E., REG. 4

DESIGNED BY: HDR ENGINEERING, INC. DESIGNER: ANTHONY L. WASHINGTON, III, P.E.

98043-4283-04 P.E. NO.

PIN NO.

133798.00

FROM: L.M. 9.23 (WALTON RD.) TO: L.M. 18.65 (DAVIS WAY) RESURFACE & SAFETY STATE HIGHWAY NO. 15 F.A.H.S. NO. 64

ROADWAY LENGTH TOTAL LANE MILES RESURFACED

33.44 MILES

9.01 MILES

# **ROADWAY INDEX**

# STANDARD ROADWAY DRAWINGS

DESCRIPTION

DWG.

REV.

# STANDARD TRAFFIC OPERATIONS DRAWINGS

**DESCRIPTION** 

06-27-16 ALTERNATE DETECTION DETAILS

LOOP LEAD-INS, CONDUIT AND PULL BOXES

STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS

DWG.

**SIGNALS** 

T-SG-2

T-SG-3

T-SG-3A

REV.

06-27-16

07-11-17

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2025	NH/HSIP-15(231)	1A

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN1
TITLE SHEET	1
ROADWAY INDEX, STANDARD ROADWAY DRAWINGS, AND	
STANDARD TRAFFIC OPERATIONS DRAWINGS	1A
PROJECT COMMITMENTS	1B
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B, 2B1
GENERAL NOTES	2C, 2C1
SPECIAL NOTES	2D
ENVIRONMENTAL NOTES	2E, 2E1
TABULATED QUANTITIES	2F
UTILITY NOTES AND UTILITY OWNERS	3
PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL	4
BRIDGE REPAIR PLANS	B-1

NO UTILITY SHEETS INCLUDED IN THIS SET OF PLANS

STANDARI LEGENDS	D ROADW	AY TITLE SHEET, ABBREVIATIONS, AND
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	02-20-20	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
10-105.00	MULTIMO	DDAL
MM-CR-7		CURB RAMPS IN CURVE BI-DIRECTIONAL DUAL CROSSING
SAFETY DI	ESIGN AN	D GUARDRAILS
S-GRS-4	05-04-22	SPECIAL CASE GUARDRAIL HEIGHT TRANSITION DETAIL
S-GRT-2	06-28-19	TYPE 38 GUARDRAIL END TERMINAL
S-GRT-2R	06-28-19	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL (RETROFIT)
S-GRA-3	01-09-24	TYPE 13 GUARDRAIL ANCHOR

		(RETROFIT)				
S-GRA-3	01-09-24	TYPE 13 GUARDRAIL ANCHOR				
DESIGN - TRAFFIC CONTROL						
T-M-1	06-28-19	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS				
T-M-2	01-09-24	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS				
T-M-3	07-07-23	MARKING STANDARDS FOR TRAFFIC ISLANDS, PAVED SHOULDERS AND MEDIANS FOR CONVENTIONAL ROADS				
T-M-4	07-17-20	STANDARD INTERSECTION PAVEMENT MARKINGS				
T-M-15	06-28-19	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATE AND ACCESS CONTROLLED ROUTES				
T-M-15A	06-28-19	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED RURAL ROUTES				
T-M-16	07-30-24	RUMBLE STRIPE INSTALLATION LAYOUT				
T-M-16A	02-03-20	RUMBLE STRIPE DETAILS FOR EDGE OF PAVEMENT AND CENTERLINE				
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS				
T-WZ-11	03-04-21	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS				
T-WZ-12	03-04-21	ONE LANE CLOSURE DETAIL FOR BRIDGES ON DIVIDED HIGHWAYS				
T-WZ-40	03-05-17	RIGHT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS				
T-WZ-41	03-05-17	LEFT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS				

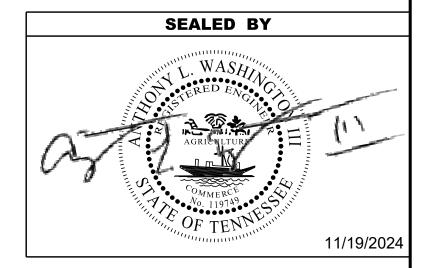
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	OF TENING	11/19/2024
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# STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX,
STANDARD ROADWAY
DRAWINGS, AND
STANDARD TRAFFIC
OPERATIONS DRAWINGS

	PROJECT COMMITMENTS						
COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STA. / LOCATION				
EDHZ001	ENVIRONMENTAL DIVISION HAZARDOUS MATERIALS	NO SPECIAL ACCOMMODATIONS FOR DEMOLITION AND WASTE DISPOSAL ARE ANTICIPATED FOR THESE STRUCTURES AND THE MATERIAL CAN BE DEPOSITED IN A C&D LANDFILL. PRIOR TO THE DEMOLITION OR REHABILITATION OF ANY STRUCTURE (BRIDGE OR BUILDING), THE CONTRACTOR IS REQUIRED TO SUBMIT THE NATIONAL EMISSION FOR HAZARDOUS AIR POLLUTANTS STANDARD 10-DAY NOTICE OF DEMOLITION TO THE TDEC DIVISION OF AIR POLLUTION CONTROL (PER TDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2021) SECTIONS 107.08.D AND 202.03.	BRIDGE NO. 35SR0150003 SR-15 OVER PEASANT RUN CREEK L.M. 11.78 (35-SR015-11.78) BRIDGE NO. 35SR0150051 SR-15 OVER HATCHIE RIVE OVERFLOW L.M. 16.14 (35-SR015-16.14) BRIDGE NO. 35SR0150009 SR-15 OVER OVERFLOW L.M. 16.36 (35-SR015-16.36) BRIDGE NO. 35SR0150053 SR-15 OVER HATCHIE RIVER OVERFLOW L.M. 16.50 (35-SR015-16.50) BRIDGE NO. 35SR0150011 SR-15 OVER OVERFLOW L.M. 16.64 (35-SR015-16.64)				
EDHZ002	ENVIRONMENTAL DIVISION HAZARDOUS MATERIALS	SEE NOTE EDHZ001. ASBESTOS CONTAINING MATERIAL SURVEYS WERE COMPLTED ON THE FOLLOWING BRIDGES AND NO ASBETOS WAS DETECTED. PLEASE SEE THE REPORTS FOR FUTHER DETAILS AND PHOTOGRAPHS. BRIDGE NO. 35SR0150003 SR-15 OVER PEASANT RUN CREEK L.M. 11.78 (35-SR015-11.78), BRIDGE NO. 35SR0150051 SR-15 OVER HATCHIE RIVE OVERFLOW L.M. 16.14 (35-SR015-16.14), BRIDGE NO. 35SR0150009 SR-15 OVER OVERFLOW L.M. 16.36 (35-SR015-16.36), BRIDGE NO. 35SR0150053 SR-15 OVER HATCHIE RIVER OVERFLOW L.M. 16.50 (35-SR015-16.50), BRIDGE NO. 35SR0150011 SR-15 OVER OVERFLOW L.M. 16.64 (35-SR015-16.64)	BRIDGE NO. 35SR0150003 SR-15 OVER PEASANT RUN CREEK L.M. 11.78 (35-SR015-11.78) BRIDGE NO. 35SR0150051 SR-15 OVER HATCHIE RIVE OVERFLOW L.M. 16.14 (35-SR015-16.14) BRIDGE NO. 35SR0150009 SR-15 OVER OVERFLOW L.M. 16.36 (35-SR015-16.36) BRIDGE NO. 35SR0150053 SR-15 OVER HATCHIE RIVER OVERFLOW L.M. 16.50 (35-SR015-16.50) BRIDGE NO. 35SR0150011 SR-15 OVER OVERFLOW L.M. 16.64 (35-SR015-16.64)				
EDHZ003	ENVIRONMENTAL DIVISION HAZARDOUS MATERIALS	SEE NOTE EDHZ001. ASBESTOS CONTAINING MATERIAL SURVEYS WERE COMPLTED ON THE FOLLOWING BRIDGES AND NO ASBETOS WAS DETECTED. PLEASE SEE THE REPORTS FOR FUTHER DETAILS AND PHOTOGRAPHS. BRIDGE NO. 35SR0150013 SR-15 OVER OVERFLOW L.M. 16.98 (35-SR015-16.98), BRIDGE NO. 35SR0150055 SR-15 OVER HATCHIE RIVER OVERFLOW L.M. 17.30 (35-SR015-17.30), BRIDGE NO. 35SR0150015 SR-15 OVER OVERFLOW L.M. 17.52 (35-SR015-17.52), BRIDGE NO. 35SR0150017 SR-15 OVER HATCHIE RIVER L.M. 17.68 (35-SR015-17.68)	BRIDGE NO. 35SR0150013 SR-15 OVER OVERFLOW L.M. 16.98 (35-SR015-16.98) BRIDGE NO. 35SR0150055 SR-15 OVER HATCHIE RIVER OVERFLOW L.M. 17.30 (35-SR015-17.30 BRIDGE NO. 35SR0150015 SR-15 OVER OVERFLOW L.M. 17.52 (35-SR015-17.52) BRIDGE NO. 35SR0150017 SR-15 OVER HATCHIE RIVER L.M. 17.68 (35-SR015-17.68)				

TYPE	YEAR	PROJECT NO.	SHEET NO.	
RESURF	2025	NH/HSIP-15(231)	1B	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROJECT COMMITMENTS

ITEM NO.	DESCRIPTION	UNIT	QUANTITY 35S015-F8-005	QUANTITY 35S015-F3-005	QL
202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	706		
203-06	WATER	M.G.	20		
208-01.05	BROOMING & DEGRASSING SHOULDERS	L.M.	13.1		
303-02	MINERAL AGGREGATE, TYPE B BASE, GRADING (C OR D)	TON	2327		
307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	325		
403-02.01	TRACKLESS TACK COAT	TON	145		lacksquare
411-01.21	LONGITUDINAL JOINT SEALANT	L.M.	33.9		
411-02.10	ACS MIX(PG70-22) GRADING D	TON	23641		lacksquare
411-12.02	SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	L.M.	10.5		
411-12.03	SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (8IN WIDTH)	L.M.	1.94		┡
415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	22991		
611-03.04	GRAY IRON CASTINGS (CATCHBASIN)	LB.	13750		
611-09.01	ADJUSTMENT OF EXISTING CATCHBASIN	EACH	2		L
705-02.10	GUARDRAIL TRANSITION 27IN TO 31IN	EACH		13	$oldsymbol{\perp}$
705-04.09	EARTH PAD FOR TYPE 38 GR END TREATMENT	EACH		12	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$
705-06.10	GR TERMINALTRAILING END (TYPE 13) MASH TL-3	EACH		7	L
705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH		4	
705-06.30	GR TERMINAL (ENERGY ABSORBING) MASH TL2	EACH		2	
706-01	GUARDRAIL REMOVED	L.F.		650	L
712-01	TRAFFIC CONTROL	LS	1		L
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	50		L
712-06	SIGNS (CONSTRUCTION)	S.F.	5384		L
712-08.03	ARROW BOARD (TYPE C)	EACH	1		L
716-01.21	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR) (1 COLOR)	EACH	853		
716-01.22	SNOWPLOWABLE RAISED PAVMENT MARKERS (MONO-DIR)(1 COLOR)	EACH	785		L
716-01.23	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR)(2 COLOR)	EACH	286		
716-01.30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	667		L
716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	104		L
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	996	40	L
716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	90		上
716-02.08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F.		300	L
716-02.09	PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	L.F.	1013	1070	L
716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	18		L
716-03.06	PLASTIC WORD PAVEMENT MARKING (SIGNAL AHEAD)	EACH	4		L
716-04.01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	3		
716-04.04	PLASTIC PAVEMENT MARKING (TRANSVERSE SHOULDER)	L.F.	424		L
716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	1		上
716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.		40	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$
716-04.14		EACH	2		$oldsymbol{oldsymbol{oldsymbol{eta}}}$
716-05.08	PAINTED PAVEMENT MARKING (PARKING LINE)	L.F.	415		
716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	80		
716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.		40	lacksquare
716-12.03	ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE)	L.F.		2292	$ldsymbol{ldsymbol{ldsymbol{eta}}}$
716-12.05	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN DOTTED LINE)	L.F.		360	$ldsymbol{f eta}$
717-01	MOBILIZATION	LS	1		
730-12.01	CONDUIT 1" DIAMETER (PVC)	L.F.	50		<u> </u>
730-14.01	SHIELDED DETECTOR CABLE	L.F.	50		<u> </u>
730-14.02	SAW SLOT	L.F.	2396		<u> </u>
730-14.03	LOOP WIRE	L.F.	6126		$\vdash$
			<u> </u>		

## **FOOTNOTES**

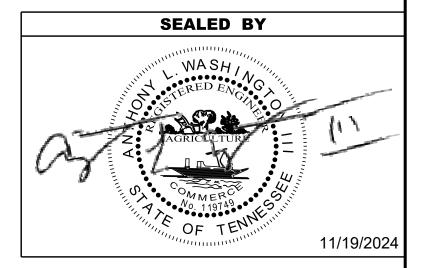
- (2) NO DIRT OR DEBRIS TO BE LEFT ON SHOULDER, THIS WORK TO BE PERFORMED BEFORE ALL OTHER OPERATIONS.
- (3) INCLUDES 100 TONS FOR BREAKOUT AREAS.
- FOR REPLACEMENT OF QUANTITY REMOVED UNDER ITEM 202-03.01.
- 5) INCLUDES 9 TONS FOR EXTRA WIDTH PAVING, DRIVEWAYS, CITY STREETS, COUNTY ROADS, FIELD ENTRANCES, AND BUSINESS ENTRANCES.
- USE CRAFTCO PAVEMENT JOINT ADHESIVE #34524. PAVON JOINT ADHESIVE BY PAVON CORPORATION OR DENSO TAPE BY DENSO.
- (7) TO BE USED FOR SEALING OF ALL SURFACE LAYER CONSTUCTION JOINTS ALONG THE TRAVEL LANES AND SHOULDERS AS DIRECTED BY THE ENGINEER.
- (8) INCLUDES 1,450 TONS FOR EXTRA WIDTH PAVING, DRIVEWAYS, CITY STREETS, COUNTY ROADS, FIELD ENTRANCES, AND BUSINESS ENTRANCES. INCLUDES 700 TONS FOR SPOT LEVELING.
- (9) INCLUDES 1,702 TONS FOR EXTRA WIDTH PAVING, DRIVEWAYS, CITY STREETS, COUNTY ROADS, FIELD ENTRANCES, AND BUSINESS ENTRANCES.
- 10) SEE TABULATED QUANTITIES, SHEET 2F.
- 11) COST TO INCLUDE REMOVAL OF EXISTING GRATE AND REPLACEMENT OF BICYCLE FRIENDLY GRATES WHERE APPLICABLE, INCLUDING MATERIAL, PARTS, LABOR, EQUIPMENT, MACHINERY, TOOLS, OR APPARATUS NECESSARY FOR REMOVAL AND INSTALLATION. THE CONTRACTOR SHALL VERIFY GRATE DIMENSIONS IN THE FIELD.
- THE CONTRACTOR SHALL COMPLY WITH SECTION 712 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION REGARDING TEMPORARY TRAFFIC CONTROL AND THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- (13) TO BE USED FOR TRANSITION TAPERS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE STAKING OF CONSTRUCTION SIGNS. IN THE EVENT THAT A CONSTRUCTION AND/OR REGULATORY SIGN IS TEMPORARILY DESIGNATED NOT IN USE DURING THE CONSTRUCTION PHASE OF A PROJECT, THE CONTRACTOR SHALL CHOOSE A SIGN COVERING APPROVED BY THE ENGINEER. TEMPORARY SIGN COVERINGS SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE PRICE BID FOR ITEM NO. 712-06 SIGNS (CONSTRUCTION)
- (15) ITEM TO BE USED AS PERMANENT MARKING ONLY.
- 16) THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC.

  PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
- (17) ALL STOP BARS ON SIDE STREETS WILL BE RETRACED AS DIRECTED BY THE ENGINEER.
- (18) ITEM TO BE USED FOR TEMPORARY PAVEMENT MARKING ONLY.

TYPE YEAR PROJECT NO. SHEET NO.

RESURF 2025 NH/HSIP-15(231) 2

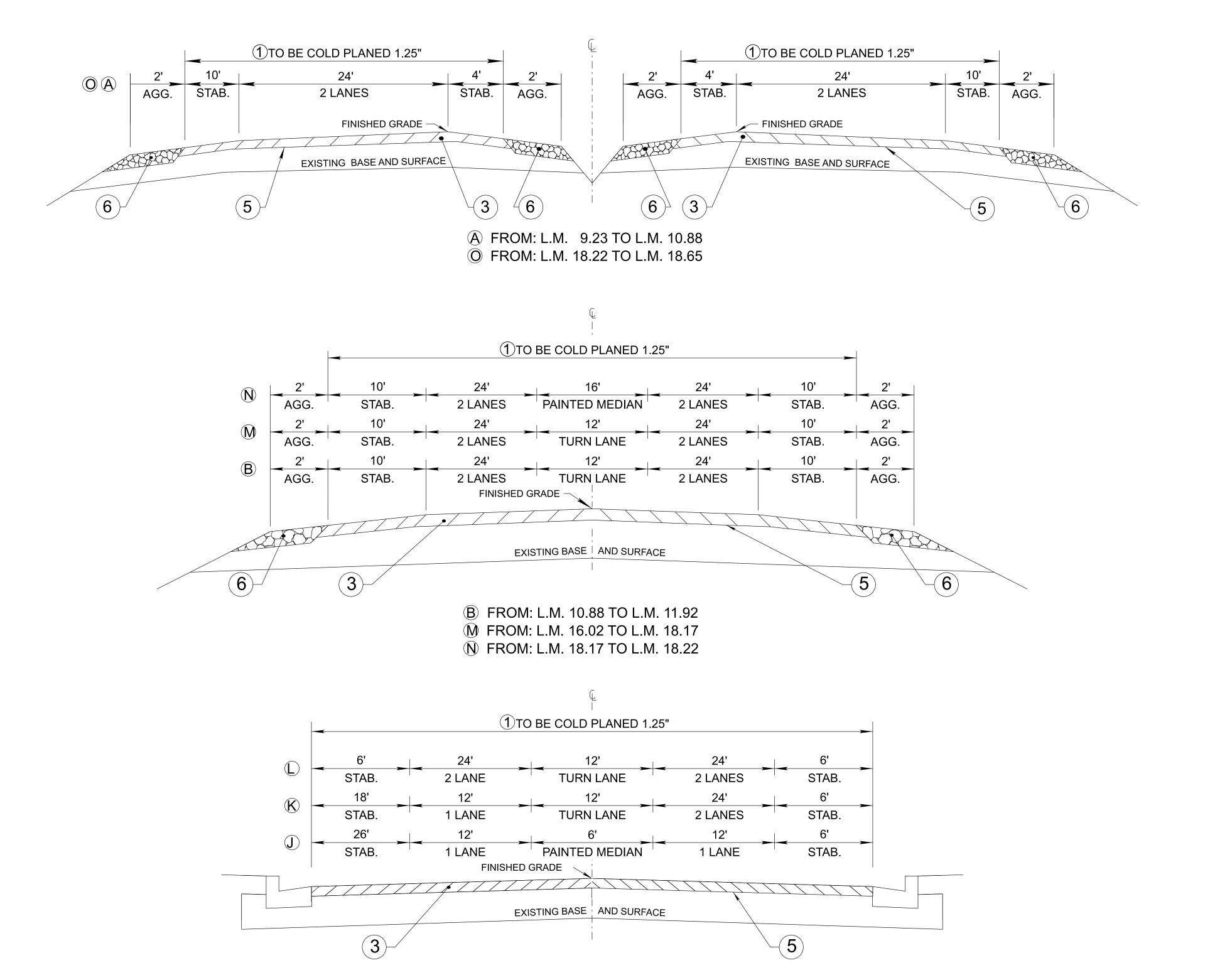
THERE ARE NO UTILITY ADJUSTMENTS ON THIS PROJECT.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.	
RESURF	2025	NH/HSIP-15(231)	2B	

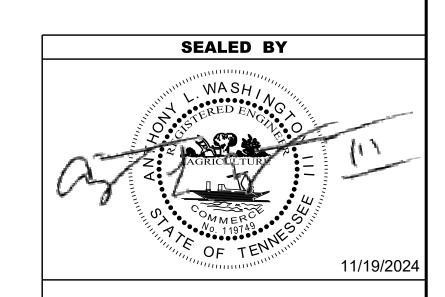


J FROM: L.M. 15.08 TO L.M. 15.16

K FROM: L.M. 15.16 TO L.M. 15.33

☐ FROM: L.M. 15.33 TO L.M. 16.02

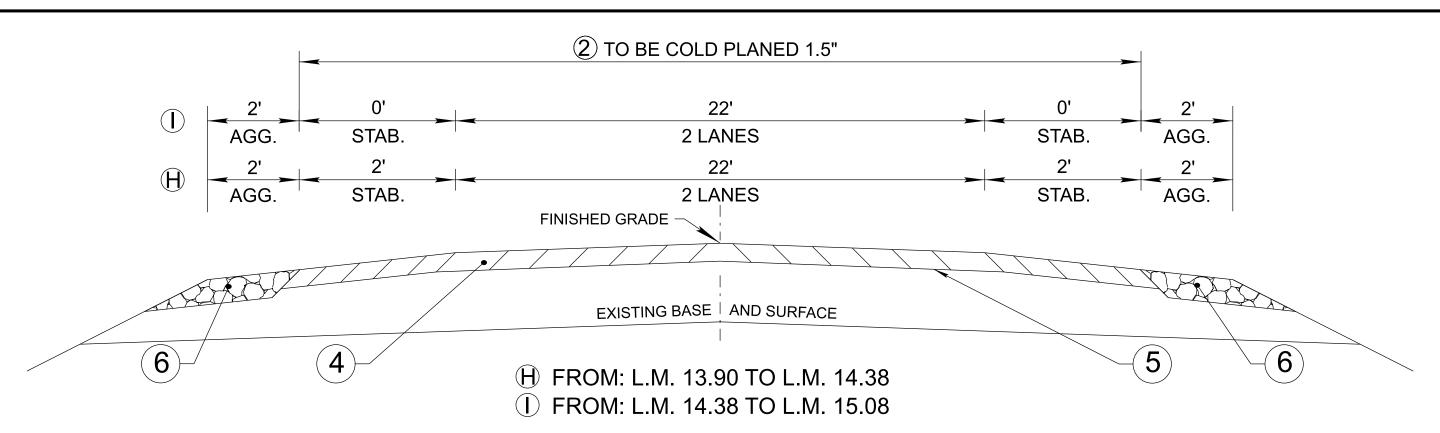
SEE SHEET 2B1 FOR PAVEMENT SCHEDULE

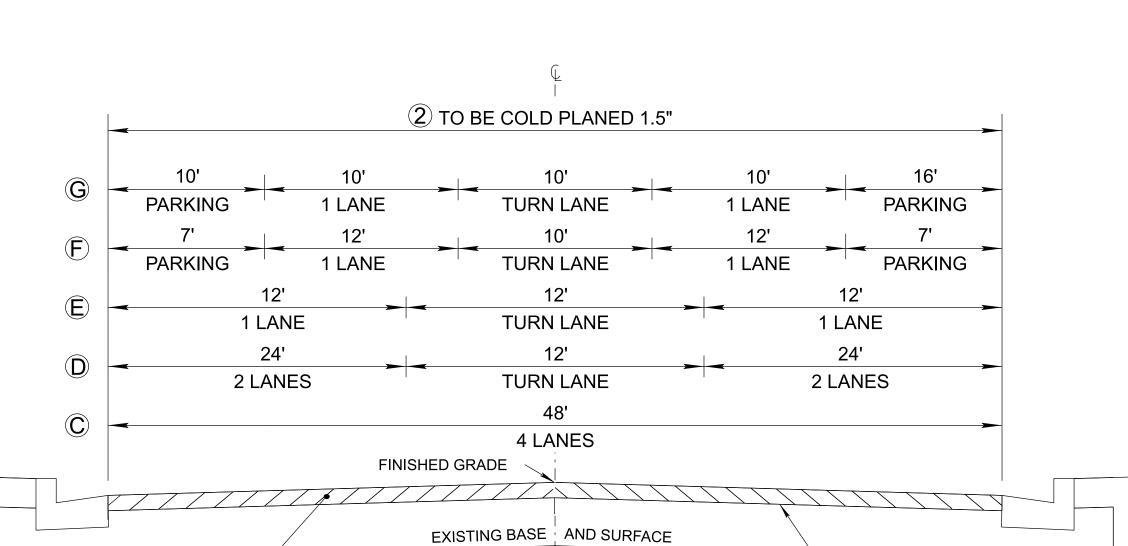


NOT TO SCALE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

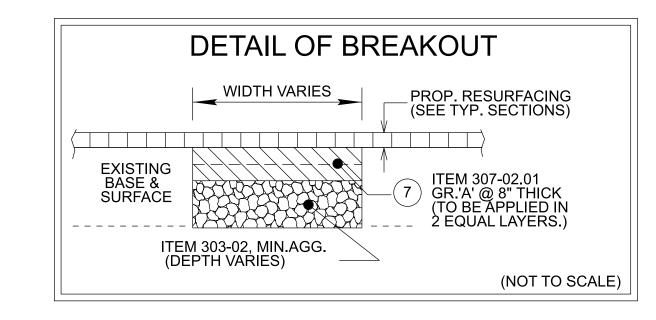
TYPICAL
SECTIONS AND
PAVEMENT
SCHEDULE





- © FROM: L.M. 12.33 TO L.M. 13.13
- D FROM: L.M. 13.13 TO L.M. 13.36
- **E** FROM: L.M. 13.36 TO L.M. 13.75
- F FROM: L.M. 13.75 TO L.M. 13.83
- © FROM: L.M. 13.83 TO L.M. 13.90

EXCLUSION: L.M. 11.92 TO L.M. 12.33



2	COLD PLANING @ 1.50"± THICK (APPROX. 157.5 LBS./S.Y.) ITEM 415-01.01 COLD PLANING BITUMINOUS PAVEMENT
3	ASPHALTIC CONCRETE SURFACE (ACS) @ 1.25"± THICK (APPROX. 132.5 LBS./S.Y.) ITEM 411-02.10 ACS MIX (PG70-22) GRADING "D"
4	ASPHALTIC CONCRETE SURFACE (ACS) @ 1.50"± THICK (APPROX. 159.0 LBS./S.Y.) ITEM 411-02.10 ACS MIX (PG70-22) GRADING "D"
5	TACK COAT (TC)  ITEM 403-02.01 TRACKLESS TACK COAT (TC)  (SEE 403.05 FOR DETERMINING APPLICATION RATE IN THE FIELD)
6	MINERAL AGGREGATE BASE @ 2.00"± THICK FOR SHOULDERS ITEM 303-02 MINERAL AGGREGATE, TYPE "B" BASE, GRADING "C OR D"
7	BITUMINOUS COURSE (BLACK BASE) @ 8.00"± THICK (APPROX. 920.0 LBS./S.Y.) ITEM 307-02.01 ASPHALT CONCRETE MIX (PG70-22)(BPMB-HM) GRADING "A" (THIS ITEM IS TO BE USED FOR BREAKOUT ONLY)

PROPOSED PAVEMENT SCHEDULE

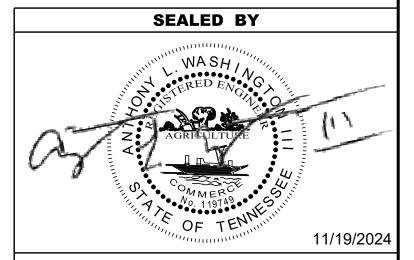
1) COLD PLANING @ 1.25"± THICK (APPROX. 131.25 LBS./S.Y.)

ITEM 415-01.01 COLD PLANING BITUMINOUS PAVEMENT

			BRIDGE NOTES
LOCATION	BRIDGE NO.	LENGTH (FT.)	TREATMENT
L.M. 11.78	35SR0150003	240.00	SEAL WITH TYPE 1 THIN EPOXY OVERLAY (BRIDGE SHEETS INCLUDED)
L.M. 14.59	35SR0150005	370.50	COLD PLANE 1.25" OF THE EXISTING ASPHALT AND REPLACE WITH 1.25 OF NEW ASPHALT
L.M. 14.71	35SR0150007	427.5	COLD PLANE 1.25" OF THE EXISTING ASPHALT AND REPLACE WITH 1.25 OF NEW ASPHALT
L.M. 14.91	35SR0150033	26.20	PAVE WITH PLANS MIX/TREATMENT TYPE
L.M. 16.09	35SR0150051	700.46	SEAL WITH TYPE 1 THIN EPOXY OVERLAY / REPLACE BRIDGE JOINTS (BRIDGE SHEETS INCLUDED)
L.M. 16.37	35SR0150009	272.08	SEAL WITH TYPE 1 THIN EPOXY OVERLAY / REPLACE BRIDGE JOINTS (BRIDGE SHEETS INCLUDED)
L.M. 16.47	35SR0150053	500.33	SEAL WITH TYPE 1 THIN EPOXY OVERLAY / REPLACE BRIDGE JOINTS (BRIDGE SHEETS INCLUDED)
L.M. 16.64	35SR0150011	305.75	SEAL WITH TYPE 1 THIN EPOXY OVERLAY / REPLACE BRIDGE JOINTS (BRIDGE SHEETS INCLUDED)
L.M. 16.99	35SR0150013	407.25	SEAL WITH TYPE 1 THIN EPOXY OVERLAY / REPLACE BRIDGE JOINTS (BRIDGE SHEETS INCLUDED)
L.M. 17.26	35SR0150055	700.46	SEAL WITH TYPE 1 THIN EPOXY OVERLAY / REPLACE BRIDGE JOINTS (BRIDGE SHEETS INCLUDED)
L.M. 17.52	35SR0150015	272.08	SEAL WITH TYPE 1 THIN EPOXY OVERLAY / REPLACE BRIDGE JOINTS (BRIDGE SHEETS INCLUDED)
L.M. 17.68	35SR0150017	501.50	SEAL WITH TYPE 1 THIN EPOXY OVERLAY / REPLACE BRIDGE JOINTS (BRIDGE SHEETS INCLUDED)
L.M. 18.05	35SR0150057	26.00	PAVE WITH PLANS MIX/TREATMENT TYPE
L.M. 18.57R	35SR0150019	26.3	PAVE WITH PLANS MIX/TREATMENT TYPE
L.M. 18.57L	35SR0150019	26.3	PAVE WITH PLANS MIX/TREATMENT TYPE

**(5**)

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NOT TO SCALE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS AND
PAVEMENT
SCHEDULE

# **GENERAL NOTES**

#### GRADING

- (19) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- (3) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WITHOUT APPROVAL BY FEMA. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

#### **GUARDRAIL**

- (1) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.
- IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE "A" LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING TEMPORARY BARRICADES OR DRUMS WITH TYPE "A" LIGHTS TO DELINEATE GUARDRAIL END AND A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL END TERMINAL.

#### **MISCELLANEOUS**

- (2) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES AND POSTS WHERE AND AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR OTHER CONSTRUCTION ITEMS.
- (3) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

#### **PAVEMENT MARKINGS**

#### **TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS**

(2) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.20, PAINTED PAVEMENT MARKING (6" LINE), L.M.

#### FINAL PAVEMENT MARKING

- (6) THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE FOLLOWING WORK:
  - a. SHOULDERS SHALL BE BROOMED AND DE-GRASSED AND MATERIAL SHALL BE PICKED UP AND REMOVED. THIS WILL BE PAID FOR UNDER ITEM NO. 208-01.05.
  - b. REMOVE ALL GARBAGE AND CONSTRUCTION DEBRIS FROM PROJECT. THE COST FOR THIS WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(9) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.02, ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

#### SNOWPLOWABLE REFLECTIVE PAVEMENT MARKERS

(20) REMOVE EXISTING SNOWPLOWABLE MARKERS PRIOR TO PAVING AND/OR COLD PLANING. REMOVE ALL ADHESIVES PRIOR TO PAVING. PATCH ANY HOLES OR DIVOTS RESULTING FROM THE REMOVAL OF A MARKER IN A MANNER WHICH ENSURES A UNIFORM PAVED SURFACE. PATCH WORK SHALL BE INCLUDED WITH COST OF OTHER ITEMS OF CONSTRUCTION.

#### **PAVEMENT**

#### **PAVING**

- (1) THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.
- (7) ON CURB AND GUTTER SECTIONS, PUBLIC ROAD INTERSECTIONS SHALL BE RESURFACED TO THE END OF RADIUS. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD SHALL BE PROVIDED.
- (8) ON URBAN TYPICAL SECTIONS, (CURB AND GUTTER), RESIDENTIAL DRIVEWAYS AND BUSINESS ENTRANCES SHALL HAVE A MINIMUM WIDTH OF MATERIAL NOT LESS THAN ONE FOOT USED IN THE TRANSITION TO FEATHER THE PAVEMENT EDGE.

#### RESURFACING

- (4) WHERE DIRECTED BY THE TDOT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SHAPE PUBLIC SIDE ROADS, BUSINESS ENTRANCES, AND PRIVATE DRIVES, AS WELL AS CLEANING OF EXISTING DRAINS BEFORE PLACING MATERIALS. ALL COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (5) ALL PUBLIC SIDE ROADS SHALL BE PAVED ONE PAVER WIDTH THROUGH THE INTERSECTION AS A MINIMUM. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD OR BUSINESS ENTRANCE SHALL BE PROVIDED. SHOULD THE PAVEMENT OF THE INTERSECTING PUBLIC ROAD BE DISTRESSED, THE RESURFACING WIDTH MAY BE INCREASED TO THE NORMAL RIGHT OF WAY LINE.
- (6) PRIVATE DRIVEWAYS, FIELD ENTRANCES, AND BUSINESS ENTRANCES WILL BE RESURFACED A PAVER WIDTH (LANE WIDTH) AS A MINIMUM. A PAVEMENT TAPER TO TRANSITION THE NEW PAVEMENT SHALL BE REQUIRED, IT SHALL BE BASED ON AN ADDITIONAL ONE FOOT OF WIDTH PER ONE INCH DEPTH OF PAVEMENT. IF THE SHOULDER IS NARROW ENOUGH THAT THE SUM OF THE SHOULDER AND THE TRANSITION ARE LESS THAN A PAVER WIDTH, THE TRANSITION SHALL OCCUR WITHIN THE PAVER WIDTH. IF THE SUM OF THE SHOULDER AND THE TRANSITION IS GREATER THAN A PAVER WIDTH (LANE WIDTH), THE TRANSITION SHALL OCCUR OUTSIDE OF THE PAVER WIDTH.
- (7) ON CURB AND GUTTER SECTIONS, PUBLIC ROAD INTERSECTIONS SHALL BE RESURFACED TO THE END OF RADIUS. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD SHALL BE PROVIDED.
- (8) ON URBAN TYPICAL SECTIONS, (CURB AND GUTTER), RESIDENTIAL DRIVEWAYS AND BUSINESS ENTRANCES SHALL HAVE A MINIMUM WIDTH OF MATERIAL NOT LESS THAN ONE FOOT USED IN THE TRANSITION TO FEATHER THE PAVEMENT EDGE.
- (9) IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE TDOT ENGINEER.

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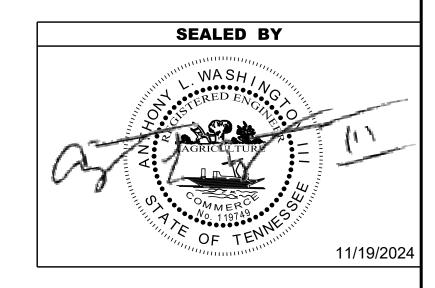
#### SIGNING

(10) ALL SIGNS WHICH INTERFERE WITH CONSTRUCTION WILL BE RELOCATED OUTSIDE LIMITS OF CONSTRUCTION BY THE CONTRACTOR. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL RESTORE THE SIGNS TO ORIGINAL LOCATION. THE CONTRACTOR SHALL CHECK WITH THE REGIONAL TRAFFIC ENGINEER PRIOR TO MOVING ANY PERMANENT SIGNS.

#### SIGNALS

- (11) THE PROJECT ENGINEER SHALL NOTIFY THE LOCAL GOVERNMENTAL AGENCY RESPONSIBLE FOR TRAFFIC CONTROL MAINTENANCE AT LEAST ONE DAY IN ADVANCE OF THE COLD PLANING ACTIVITY AT SIGNALIZED INTERSECTIONS WHERE DETECTOR LOOPS ARE ON THE PAVEMENT. THE MAINTAINING AGENCY WILL THEN BE RESPONSIBLE FOR DISCONNECTING THE LOOP DETECTORS AND MAKING ANY NECESSARY TIMING ADJUSTMENTS IN THE SIGNAL CONTROLLER PRIOR TO THE CONSTRUCTION.
- (13) LOOPS SHALL BE INSTALLED IN THE LEVELING COURSE IF A LEVELING COURSE IS PROVIDED.
- (14) LOOP REPLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 730 OF THE STANDARD SPECIFICATIONS.





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STATE OF TENNESSEE
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GENERAL NOTES

# **GENERAL NOTES (CONT.)**

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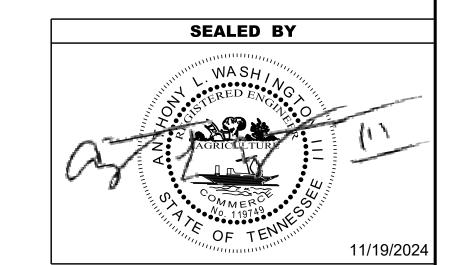
CON	NSTRUCTION WORK ZONE & TRAFFIC CONTROL
(1)	ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THA

(1)	ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN
	FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS.
	SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN
	FACE IS FULLY COVERED.

(2)	IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR
	REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS
	OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE
	MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE
	INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS
	(CONSTRUCTION) PER SQUARE FOOT.

- (3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.
- (4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- USE OF BARRICADES, PORTABLE BARRIER RAILS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL. AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- 7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 9) THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING CONSTRUCTION SIGNS. THE COST OF THIS WORK SHALL BE INCLUDED IN ITEM NO. 712-06, SIGNS (CONSTRUCTION), S.F.

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STATE OF TENNESSEE
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GENERAL NOTES

## **SPECIAL NOTES**

#### RESURFACING

- (1) SURFACE IS TO BE CROWNED AS DIRECTED BY THE ENGINEER.
- (2) WHEN A PERFORMANCE GRADE (PG) ASPHALT MIX WITH PROPERTIES GREATER THAN THAT OF PG64-22 IS CALLED FOR ON RESURFACING PLANS AND IS THE ONLY ASPHALT GRADE ON THE PROJECT, THE CONTRACTOR HAS THE OPTION OF USING EITHER THE ASPHALT GRADE SHOWN IN THE PLANS OR AN ASPHALT GRADE EQUAL TO OR BETTER THAN PG64-22 FOR DRIVEWAYS AND BUSINESS ENTRANCES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE MATERIAL WILL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THE ASPHALT OR ASPHALT MIX. THE MATERIAL TICKETS SHALL BE MARKED "FOR DRIVEWAYS AND BUSINESS ENTRANCES ONLY" AT THE POINT OF MANUFACTURE.
- (3) THE INSIDE SHOULDER WILL BE PAVED CONCURRENTLY WITH THE INSIDE TRAFFIC LANE.
- (4) THE CONTRACTOR SHALL TAKE EXTREME CARE WHEN COLD PLANING THE EXISTING ASPHALT OFF BRIDGE DECK SO AS NOT TO DAMAGE THE EXISTING DECK SEALANT AND/OR EXPANSION JOINT MEMBERS (STEEL PLATES, BARS, AND/OR HEADERS). IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY REPAIRS TO ALL DAMAGED MEMBERS TO THE SATISFACTION OF THE PROJECT ENGINEER AT NO ADDITIONAL COST.
- (5) THE BITUMINOUS MATERIAL DESIGNATED TO RESTORE THE COLD PLANING AREA WILL BE PLACED WITHIN 96 HOURS OF THE COMMENCEMENT OF COLD PLANING OPERATIONS. COLD PLANING OPERATIONS WILL BE LIMITED TO AN AREA EQUAL TO THAT WHICH CAN BE COVERED WITH BITUMINOUS MATERIAL WITHIN THE TIME LIMITS SPECIFIED, EVEN IF COLD PLANING OPERATIONS MUST BE SUSPENDED UNTIL PAVING CATCHES UP.

#### STORM DRAIN STRUCTURES

- (1) TAPER AROUND ALL CATCH BASINS AS DIRECTED BY THE ENGINEER.
- (2) THE CONTRACTOR SHALL PROPERLY ADJUST ALL CATCH BASINS, AREA DRAINS, AND MANHOLES TO THE FINISHED GRADE OF THE PAVEMENT. EXTENSION RINGS SHALL BE ADDED/REMOVED FROM EXISTING CATCH BASINS, AREA DRAINS, AND MANHOLES TO RAISE/LOWER THE GRATE OR LID TO FINAL PAVEMENT ELEVATION. ADJUSTMENTS ARE TO BE MADE PRIOR TO THE LAYING OF SURFACE MIX ITEM 411-02.10. PAYMENT FOR MANHOLE, AREA DRAIN, AND CATCH BASIN ADJUSTMENTS WILL BE MADE AT THE UNIT PRICE BID FOR ITEM 611-09.01 ADJUSTMENT OF EXISTING CATCH BASIN (EACH).

#### **PAVEMENT MARKING**

- (6) UNDER THE DIRECTION OF THE ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO APPLY PAINTED MARKINGS IN THE PAVEMENT AREAS NOT SPECIFICALLY DETAILED IN THE PLANS. PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR ITEM NO. 716-05.20.
- (7) UNDER THE DIRECTION OF THE ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO APPLY PLASTIC MARKINGS IN THE PAVEMENT AREAS NOT SPECIFICALLY DETAILED IN THE PLANS. PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR ITEM NO. 716-12.02.

#### SIGNS

(1) IF THE CONTRACTOR ELECTS TO UTILIZE SIGN POST ANCHORS (STUBS)
FOR SIGN ERECTION, THESE SHALL BE REMOVED WHEN THE SIGNS ARE
REMOVED TO AVOID FUTURE DAMAGE TO MOWERS OR OTHER MACHINERY.

#### **MISCELLANEOUS**

- (1) ITEM 303-02 TO BE PLACED BEFORE PLACING SURFACING MATERIAL.
- (4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY SIGNS AND MAILBOXES DURING THE OPERATION. ANY SIGNS OR MAILBOXES DAMAGED AS A RESULT OF THE OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

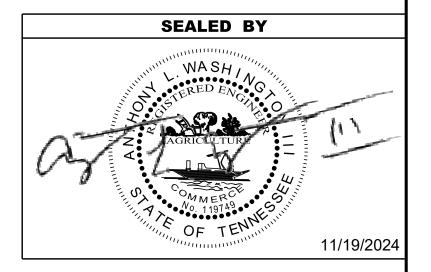
### CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(1) THE CONTRACTOR SHALL KEEP TWO TRAFFIC LANES, ONE IN EACH DIRECTION, OPEN TO TRAFFIC DURING NON-WORK HOURS OR NON-WORK DAYS.

#### **JOINT SEALANTS**

- (1) THE CONTACT SURFACE OF TRANSVERSE JOINTS AND LONGITUDINAL JOINTS IN THE SURFACE LIFT SHALL BE SEALED BY APPLYING JOINT SEALANT PRIOR TO PLACEMENT OF ADDITIONAL ASPHALT AGAINST THE PREVIOUSLY PLACED MATERIAL. MANUFACTURER'S RECCOMENDATIONS SHALL BE FOLLOWED IF THE MATERIAL NEEDS TO BE RE-HEATED, AND WHEN PLACING THE THIN, UNIFORM LAYER.
- (3) PRIOR TO APPLICATION OF THE SEALANT, THE FACE OF THE JOINT SHALL BE THOROUGHLY DRY AND FREE FROM DUST OR ANY OTHER MATERIAL THAT WOULD PREVENT PROPER SEALING. ALL JOINTS SHALL BE SWEPT OR BLOWN FREE OF LOOSE MATERIAL DIRT, VEGETATION, AND OTHER DEBRIS BY MEANS OF COMPRESSES AIR OR A POWER SWEEPER.
- (4) TRUCK AND VEHICLE TRAFFIC SHALL NOT DRIVE ACROSS A SEALED JOINT UNTIL IT HAS DIRED SUFFICIENT TO PREVENT DAMAGE FROM TRACKING.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES

# **ENVIRONMENTAL NOTES**

#### **ENVIRONMENTAL GENERAL NOTES**

#### NATURAL RESOURCES

- THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, IS NOT ALLOWED.
- THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS PRIOR TO ANY CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR OR TDOT INSPECTOR IS UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE. THE INSPECTOR SHALL CONTACT THE TDOT REGION ENVIRONMENTAL TECH GROUP IMMEDIATELY.

#### **SPECIES**

- (11) SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT THE REGIONAL ECOLOGY OFFICE TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).
- (12) IF THE REMOVAL OF ANY TREES WITH A DIAMETER AT BREAST HEIGHT (DBH) GREATER THAN 3 INCHES IS DEEMED NECESSARY THE TDOT SUPERVISOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION. **ECOLOGY SECTION IMMEDIATELY.**

#### PERMITS, PLANS & RECORDS

(15) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE TDOT PERMIT SECTION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

#### ENVIRONMENTAL SPECIAL NOTES

#### ENVIRONMENTAL

(1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

#### **ECOLOGY**

- STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR A DESIGNATED CONSULTANT WILL NEED TO BE ONSITE FOR WORK BEING DONE WHICH COULD AFFECT WATERS OF THE STATE/U.S. OR SPECIES.
- STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS THAT MUST BE FOLLOWED.
- ALL PROJECTS WITH LEGALLY PROTECTED SPECIES OR CRITICAL HABITAT IDENTIFIED SHALL HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS, THESE MATERIALS ARE NOT ALLOWED TO ENTER WATERS OF THE STATE/U.S.

#### SCOPE OF WORK

THIS PROJECT INCLUDES RESURFACING, STRIPING, TRAFFIC CONTROL GUARDRAIL WORK, AND BROOMING AND DEGRASSING SHOULDERS.

#### **EROSION PREVENTION AND SEDIMENT CONTROL GENERAL** NOTES

#### DISTURBED AREA

(1) IF DISTURBED ACREAGE IS EQUAL TO ONE ACRE OR MORE, PLEASE CONTACT TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION AS SOON AS POSSIBLE BECAUSE AN NPDES PERMIT WILL BE REQUIRED.

#### SEDIMENT CONTROL

- EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.
- THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFFSITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.). INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFFSITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE NEGOTIATED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.

#### GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

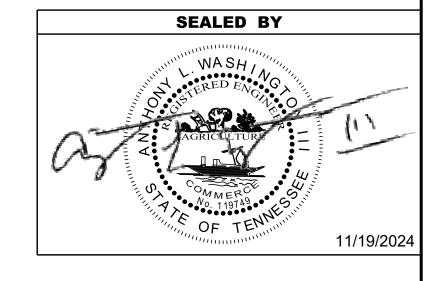
- (29) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.
- THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION. APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED.
- (31) CONTRACTORS SHALL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED. NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ONSITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.
- WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM.
- (33) IF PORTABLE SANITARY FACILITIES ARE PROVIDED ON CONSTRUCTION SITES, SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.
- ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR'S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL.

- WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFFSITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.
- ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.
- (37) ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.
- (38) OPEN BURNING IS PROHIBITED UNLESS IT IS SPECIFICALLY ALLOWED BY LAW. IF ALLOWED, NATURAL VEGETATION, TREES, AND UNTREATED LUMBER SHALL BE THE ONLY MATERIALS THAT CAN BE OPEN BURNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE AND LOCAL PERMITS PRIOR TO ANY BURNING.
- (39) DISPOSAL OF ONSITE VEGETATION AND TREES BY CHIPPING THEM INTO MULCH IS PREFERABLE TO OPEN BURNING. THIS MULCH MAY BE USED AS AN ONSITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.
- (40) WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S), CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

SHEE NO. 2E RESURF 2025 NH/HSIP-15(231)

PROJECT NO.

YEAR



**STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION** 

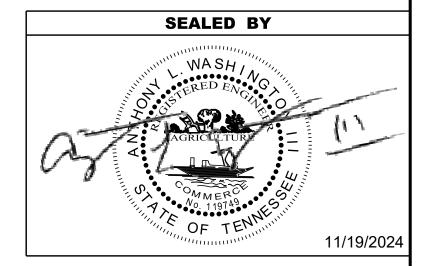
> **ENVIRONMENTAL** NOTES

# **ENVIRONMENTAL NOTES (CONT.)**

#### SPILL PREVENTION, MANAGEMENT & NOTIFICATION

- (44) ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE AND SPILLS.
- (45) FOR ALL HAZARDOUS MATERIALS STORED ONSITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP SHALL BE CLEARLY POSTED. SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.
- (46) APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT SHALL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ONSITE AND UNDER COVER. SPILL RESPONSE EQUIPMENT SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.
- (47) ALL SPILLS SHALL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- (48) THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.
- (49) IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION SHALL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR SHALL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.
- (50) FERTILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED. ONCE APPLIED, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER.
- (51) IF A SPILL OCCURS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE TDOT PROJECT RESPONSIBLE PARTY. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.
- (52) WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD, SEE THE LATEST TENNESSEE GENERAL PERMIT NO. TNR100000 STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES SECTION 5.1 FOR REPORTING REQUIREMENTS.
- (53) CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ONSITE OR ADJACENT TO THE R.O.W. IN ABOVE GROUND STORAGE CONTAINERS WITH A COMBINED CAPACITY OF 1320 GALLONS OR MORE SHALL HAVE SECONDARY CONTAINMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN FOR THE BULK STORAGE AND BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ONSITE AND A COPY PROVIDED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO STORING 1320 GALLONS ON SITE.

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2025	NH/HSIP-15(231)	2E1



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

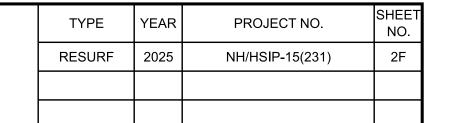
ENVIRONMENTAL NOTES

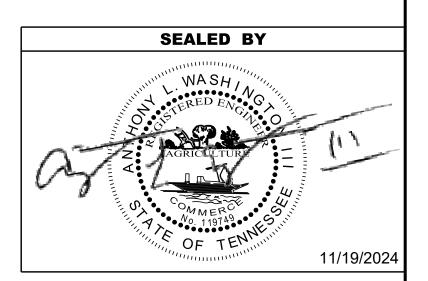
	AFFIC CONTROL SIGN T				I (KE		#0
M.U.T.C.D.			SIZE			TOTAL	ITEM NO.
SIGN	LEGEND \ DESCRIPTION	IN	INCH	IES	S.F.	NUMBER	712-06
NO.		L.	х	W		REQUIRED	S.F.
G20-1	<b>ROAD WORK NEXT 10 MILES</b>	48"	X	24"	8	4	32
G20-2	END ROAD WORK	48"	X	24"	8	51	408
W4-2L	LEFT LANE ENDS	48"	X	48"	16	4	64
W4-2R	RIGHT LANE ENDS	48"	х	48"	16	4	64
W8-11	UNEVEN LANES	48"	х	48"	16	62	992
W8-15	GROOVED PAVEMENT	48"	х	48"	16	62	992
W8-15P	MOTORCYCLE PLAQUE	48"	х	48"	16	62	992
W20-1	ROAD WORK 1 MILE	48"	х	48"	16	4	64
W20-1	ROAD WORK 1/2 MILE	48"	х	48"	16	4	64
W20-1	ROAD WORK 1000 FEET	48"	х	48"	16	4	64
W20-1	ROAD WORK AHEAD	48"	х	48"	16	51	816
W20-5L	LEFT LANE CLOSED 1/2 MILE	48"	х	48"	16	4	64
W20-5L	LEFT LANE CLOSED 1500 FT	48"	х	48"	16	4	64
W20-5R	RIGHT LANE CLOSED 1/2 MILE	48"	х	48"	16	4	64
W20-5R	RIGHT LANE CLOSED 1500 FT	48"	X	48"	16	4	64
W20-7A	FLAGGER SYMBOL - PORTABLE	48"	х	48"	16	4	64
W21-2	FRESH OIL - PORTABLE	48"	Х	48"	16	4	64
W21-5	SHOULDER WORK	48"	X	48"	16	28	448
	ICTION CICNING IS TO BE A MINIMUM CTUES	CICNO A	S DID	OTED D	VTUE		
	JCTION SIGNING IS TO BE A MINIMUM. OTHER / BE REQUITED DURING DIFFERENT PHASES.	SIGNS A	אוט כ	CIEDR	TIME	TOTAL	5384

			F	PROPOSE	D GUARD	RAIL (RE	SURFACII	NG)	
		, i			GUARDRAIL		TE	RMINAL ANCHO	ORS
				GUARDRAIL TRANSITION	EARTH PAD FOR TYPE 38	GUARDRAIL REMOVED	TYPE 13	TYPE 38	TYPE 21
S	IDE		LOG MILE	27 IN TO 31 IN	GR. END		MASH TL3	MASH TL3	MASH TL2
					TREATMENT		(9.375')	(26.896')	(21.875')
DIR	ıт	RT		705-02.10	705-04.09	706-01	705-06.10	705-06.20	705-06.30
DIK		Kı	_	(EACH)	(EACH)	(L.F.)	(EACH)	(EACH)	(EACH)
WB		X	9.845	1	1	50	1		
EB		X	9.908	1	1	50	1		
EB		Х	11.136	1	1	50	1		
EB		X	11.412	1		50		1	
WB		X	11.457	1	1	50			1
EB		Х	11.533	1	1	50	1		
WB		Х	11.647	1	1	50			1
EB		Х	11.923	1	1	50	1		
WB		X	16.224	1	1	50		1	
WB		Х	16.340	1	1	50		1	
WB		Х	17.231	1	1	50		1	
WB		Х	18.554	1	1	50	1		
EB		Х	18.559	1	1	50	1		
	Т	OTA	ALS	13	12	650	7	4	2

ES	STIMATED S	ignal quan	TITIES	
	HARDEMAN CO	D. SR 15 (BEG. 9.23 -	18.65)	
l	OOP REPLACEME	NT FOR RESURFACIN	IG JOB	
	LOOP WIRE	SAW SLOT	SHIELDED	1" CONDUIT (PVC)
INTERSECTION	(LF)	(LF)	CABLE (LF)	(LF)
	730-14.03	730-14.02	730-14.01	730-12.01
SR 15 @ WALMART DR**	2760	1160	50	50
SR 15 @ SR 18*	1332	446	0	0
SR 15 @ JONES ST*	1254	462	0	0
SR 15 @ SR 125*	780	328	0	0
* MAINLINE ONLY				
** INCLUDES SIDE STREETS				
TOTALS	6126	2396	50	50

,	CATCH BASINS						
				GRAY IRON CASTINGS (CATCH BASIN)	ADJUSTMENT OF EXISTING CATCH BASIN		
LOG MILE	DIR	LEFT	RIGHT	611-03.04	611-09.01		
12.113	EB		Х	250			
12.226	EB		Х	250			
12.266	WB	Х		250			
12.267	EB		Х	250			
12.276	WB	Х		250			
12.277	WB	Х		250			
12.307	EB	1202	Х	250			
12.315	WB	Х	-	250			
12.367	WB	Х		250			
12.372	EB	DV.	Х	250			
12.426	WB	Х	V	250			
12.432	EB	V	Х	250			
12.460	WB	Х	V	250			
12.469	EB	V	Х	250			
12.504	WB	Х	V	250			
12.546	EB	V	Х	250			
12.637	WB	Х	V	250			
12.644 12.668	EB WB	Х	Х	250 250			
12.699	EB		Х	250			
12.700	EB		X	250			
12.707	WB	Х	^	250			
12.707	WB	X	<u> </u>	250			
12.756	EB		Х	250			
12.763	WB	Х		250			
12.814	EB	Λ	Х	250			
12.818	WB	Х		250			
12.912	WB	X		250			
13.010	WB	Х		250			
13.062	WB	Х		250			
13.063	WB	Х		250			
13.066	EB	V-270	Х	250			
13.067	EB		Х	250			
13.081	EB		Х	250			
13.088	WB	Х		250			
13.110	EB		Х	250			
13.121	WB	Х		250			
13.142	EB		Х	250			
13.159	EB		Х	250			
13.178	EB		Х	250			
13.186	WB	Х		250			
13.195	WB	Х		250			
13.209	WB	Х		250			
13.225	WB	Х		250			
13.227	EB		Х	250			
13.227	EB		Х	250			
13.248	EB		Х	250			
13.252	WB	Х		250			
13.261	EB		Х	250			
13.292	WB	Х		250			
13.308	EB		Х	250			
13.339	EB		Х	250			
13.344	WB	Х		250			
13.601	EB		Х	250	1		
13.677	EB		X	250	1		
			TOTAL	13750	2		





STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

#### UTILITIES

- (1) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER..
- (3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.
- (5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC AT 1-800-351-1111 WILL BE REQUIRED.

#### **UTILITY OWNERS**

#### GAS/WATER/SEWER:

**BOLIVAR UTILITY DEPARTMENT** 

115 N. Washington St. Bolivar, TN 38008

CONTACT: Cliff Henson

OFFICE PHONE: 731 658 5894

Email: chenson.cityofbolivar@gmail.com

#### CABLE:

**CHARTER COMMUNICATIONS** 

24 Circle Drive

McKenzie, TN 38201

CONTACT: Keith Chesser

OFFICE PHONE: 731 352 1146
CELL PHONE: 731 621 9552
Email: keith.chesser@charter.com

#### **ELECTRIC:**

**BOLIVAR ENERGY AUTHORITY** 

815 Tennessee St. Bolivar, TN 38008

CONTACT: Randy Plunk

OFFICE PHONE: 731 658 5257 Email: rplunk@bea-tn.com

#### **COMMUNICATIONS:**

AT&T

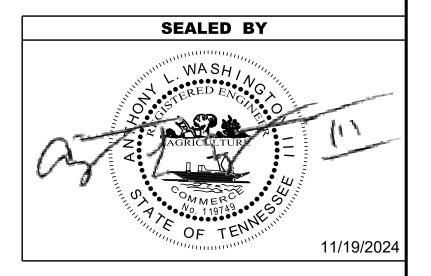
315 E. College Street

Jackson, TN 38301

CONTACT: Daniel R. Potts
OFFICE PHONE: 901 488 2359

Email: dp7607@att.com

TYPE	YEAR	PROJECT NO.	SHEET NO.	
RESURF	2025	NH/HSIP-15(231)	3	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY NOTES

AND

UTILITY OWNERS

# PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

- A. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC, CAUSED BY BASE, PAVING OR RESURFACING:
  - 1. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 1.75 INCHES:
    - a. WARNING SIGNS, UNEVEN LANES (W8-11) AND/OR SHOULDER DROP-OFF WITH PLAQUE (W8-17 AND W8-17P), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.
    - b. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.
    - c. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.
    - d. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.
  - 2. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 1.75 INCHES AND NOT EXCEEDING 6 INCHES, TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN ELEVATION.
    - a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:
      - (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.
      - (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.
    - DECREASED TO 2 INCHES OR LESS BY THE END OF EACH WORKDAY, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH a, PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.
    - c. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE THROUGH TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3 INCHES, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE REGIONAL TRAFFIC ENGINEER. SEE PARAGRAPH A REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 2 MILES IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

- 3. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 6 INCHES BUT NOT EXCEEDING 18 INCHES, THE CONTRACTOR, WITH THE ENGINEER'S APPROVAL, MAY UTILIZE ONE OF THE FOLLOWING:
  - a. THE CONTRACTOR SHALL ACCOMPLISH SEPARATION BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

- (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.
- (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 6 INCHES OR LESS BY THE END OF THE WORKDAY THAT THE CONDITION IS CREATED.

- b. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a, AND CONSTRUCT A STONE WEDGE WITH A 4:1 SLOPE, OR FLATTER, TO ELIMINATE THE VERTICAL OFFSET IF THE LOWER ELEVATION IS AT OR BELOW SUBGRADE AT THE END OF EACH DAY.
- C. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a AND IF THE LOWER ELEVATION IS BASE STONE OR ASPHALT PAVEMENT, PLACEMENT OF SUBSEQUENT LAYERS OF PAVEMENT MUST BEGIN THE NEXT WORK DAY AND PROGRESS CONTINUOUSLY UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED OR REDUCED TO SIX INCHES OR LESS.
- d. THE CONTRACTOR SHALL PROVIDE SEPARATION BY PORTABLE BARRIER RAIL.

FOR PRECEDING CONDITIONS a, b, AND c, THE CONTRACTOR SHALL USE THE SHOULDER DROP-OFF WARNING SIGN WITH PLAQUE (W8-17 AND W8-17P). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN THE SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

 FOR DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 18 INCHES.

SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

IN THIS SITUATION THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

TYPE	YEAR	PROJECT NO.	NO.	
RESURF	2025	NH/HSIP-15(231)	4	

- B. IF THE DIFFERENCE IN ELEVATION IS WITHIN 30 FEET OF THE NEAREST TRAFFIC LANE BEING USED BY TRAFFIC CAUSED BY GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES, UNDERCUTTING, ETC.:
  - IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 3/4 INCH AND NOT EXCEEDING 2 INCHES.
    - a. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.
  - 2. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES:
    - SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:
      - (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.
    - (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER
  - 3. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 6 INCHES:
    - a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:
      - (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.
      - (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.
    - D. ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL.

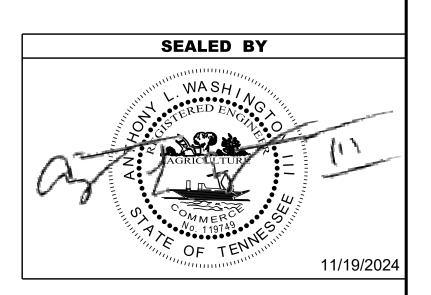
THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 8 FEET OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

C. IF THE DIFFERENCE IN ELEVATION IS FARTHER THAN 8 FEET FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 30 FEET FROM THE NEAREST TRAFFIC LANE:

SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

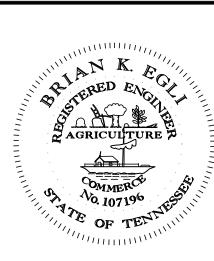
- WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.
- 2. WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE
DROP-OFF NOTES
FOR
TRAFFIC CONTROL



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Brian Egli

2024.11.14 11:16:56 -06'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

TENNESSEE DEPARTMENT OF TRANSPORTATION 505 DEADERICK STREET, SUITE 1200 NASHVILLE, TN 37243 BRIAN K. EGLI, P.E. NO. 107196

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME

SHEET NO.

SIGNATURE SHEET\_\_\_\_\_\_ STRUCTURE-SIGN 1 BRIDGE PLANS\_\_\_\_\_ B1 THRU B14 2025 35S015-M3-006 STRUCTURE-SIGN 1

SHEET NO.

PROJECT NO.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

PIN 133798.00

PROJECT NO. YEAR SHEET NO. 2025 35S015-M3-006 B1

FED. PROJ. NO. NH/HSIP-15(231)

REVISIONS

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NO.	DATE	BY	BRIEF DESCRIPTION
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INDEX OF DRAWINGS

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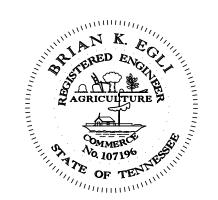
LAST REV. DATE

INDEX OF DRAWINGS\_\_\_\_\_\_\_ B1
BRIDGE TABULATION, ESTIMATED QUANTITIES, AND EXPANSION JOINT REPAIR NOTES\_\_\_\_\_ B2
TYPE I THIN EPOXY OVERLAY NOTES\_\_\_\_\_ B3 PLAN VIEW (35SR0150003)\_\_\_\_\_\_\_B4 PLAN VIEW (35SR0150015)\_\_\_\_\_\_ B12 PHASE CONSTRUCTION\_\_\_\_\_\_\_ B14

INDEX OF REFERENCE DRAWINGS

DWG. NO.





STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

INDEX OF DRAWINGS 35-SR15-11.78 OVER PLEASANT RUN CREEK

35-SR15-16.09 35-SR15-16.37 35-SR15-16.47 35-SR15-16.64

35-SR15-16.99 35-SR15-17.26 35-SR15-17.52 OVER

OVERFLOW 35-SR15-17.68 OVER

HATCHIE RIVER BR. NOS. 35SR0150003 35SR0150051 35SR0150009

35SR0150053 35SR0150011 35SR0150013 35SR0150055 35SR0150015

35SR0150017 HARDEMAN COUNTY 2025

SUPERVISED BY\_\_\_\_K.MARTINKO DATE \_\_\_ CHECKED BY\_

DATE \_\_\_\_\_\_\_ DATE \_\_\_\_\_8/24 DATE 8/24

HARDEMAN CO SRIS L	W 9.23 TO LIVE 10.65	)		
TABUL	ATION OF BRI	DGE RELATED WORK	AND ESTIMATED QL	JANTITIES
LOCATION OF BRIDGE AND BRIDGE NUMBER	REFERENCE DRAWINGS TO BE PRINTED WITH CONTRACT DRAWINGS	TYPE OF WORK	604-10.44 EXPANSION JOINT REPAIR L.F.	617-04.01 TYPE I THIN EPOXY OVERLAY (EPOXY-URETHANE) S.Y.
35-SR15-11.78 OVER PLEASANT RUN CREEK (35SR0150003)	M-306-27 M-306-30	TYPE I THIN EPOXY OVERLAY (EPOXY-URETHANE)		2512
35-SR15-16.09 OVER OVERFLOW (35SR0150051)	U-28-1 U-28-5	EXPANSION JOINT REPAIR  TYPE I THIN EPOXY OVERLAY (EPOXY-URETHANE)	165	6841
35-SR15-16.37 OVER OVERFLOW (35SR0150009)	U-28-17 U-28-20	EXPANSION JOINT REPAIR  TYPE I THIN EPOXY OVERLAY (EPOXY-URETHANE)	165	2926
35-SR15-16.47 OVER OVERFLOW (35SR0150053)	U-28-43 U-28-47	EXPANSION JOINT REPAIR  TYPE I THIN EPOXY OVERLAY (EPOXY-URETHANE)	165	5012
35-SR15-16.64 OVER OVERFLOW (35SR0150011)	U-28-59 U-28-62	EXPANSION JOINT REPAIR  TYPE I THIN EPOXY OVERLAY (EPOXY-URETHANE)	165	3234
35-SR15-16.99 OVER OVERFLOW (35SR0150013)	U-28-85 U-28-89	EXPANSION JOINT REPAIR  TYPE I THIN EPOXY OVERLAY (EPOXY-URETHANE)	165	4161
35-SR15-17.26 OVER OVERFLOW (35SR0150055)	U-28-114 U-28-118	EXPANSION JOINT REPAIR  TYPE I THIN EPOXY OVERLAY (EPOXY-URETHANE)	165	6841
35-SR15-17.52 OVER OVERFLOW (35SR0150015)	U-28-130 U-28-134	EXPANSION JOINT REPAIR  TYPE I THIN EPOXY OVERLAY (EPOXY-URETHANE)	165	2827
35-SR15-17.68 OVER HATCHIE RIVER (35SR0150017)	U-28-157 U-28-161	EXPANSION JOINT REPAIR  TYPE I THIN EPOXY OVERLAY (EPOXY-URETHANE)	165	4895
	TOTAL		1320	39249
4L				·

PIN 133798.00

#### EXPANSION JOINT REPAIR NOTES

THE JOINT HEADER SYSTEM SHALL BE FROM QPL 9.002. THE JOINT SEAL SYSTEM CONSISTS OF THE ELASTOMERIC HEADER MATERIAL AND A TWO-PART COLD POUR SILICONE SEALANT. THE CONTRACTOR SHALL ALSO HAVE THE OPTION OF USING A PRECOMPRESSED FOAM WITH SILICONE TOPPED PRODUCT (SIMILAR TO AND INCLUDING BEJS) FROM QPL 7.001 WITH AN APPROPRIATELY SIZED SEAL FOR THE JOINT OPENING, AND AN ELASTOMERIC CONCRETE FROM QPL 9.001. THE SYSTEM SHALL BE INSTALLED UNDER THE DIRECT SUPERVISION OF AN AUTHORIZED TECHNICIAN PROVIDED BY THE SYSTEM MANUFACTURER. THE TECHNICIAN MUST APPROVE ALL ASPECTS OF THE GEOMETRY AND PREPARATION OF THE JOINT LOCATIONS PRIOR TO ANY INSTALLATION OF THE JOINT SYSTEM MATERIALS. PRODUCTS FROM QPL 7.001 "ON A ROLL" AND "COMPRESSION ONLY" WILL NOT BE ALLOWED. THE TOP OF THE QPL 7.001 JOINT FILLER SHALL BE A MINIMUM OF  $\frac{3}{4}$  OF AN INCH BELOW THE ROADWAY SURFACE UNLESS THE MANUFACTURER REUIRES A DEEPER DEPTH.

MANUFACTURERS SPECIFICATIONS AND INSTALLATION PROCEDURES SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW PRIOR TO THE JOINT REPLACEMENT/REPAIR WORK. THE MANUFACTURER AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE WORKMANSHIP OF THE JOINT INSTALLATION.

PRIOR TO THE INSTALLATION OF THE NEW JOINT, THE EXISTING JOINT OPENING SHALL BE CLEANED OF ALL DIRT, DEBRIS, AND PRIOR CONSTRUCTION MATERIAL, ETC., THE FULL DEPTH OF THE OPENING. THE SURFACES WHERE THE NEW MATERIAL BONDS TO STAY IN PLACE, SHALL BE CLEANED PER MANUFACTURERS RECOMMENDATION, TO REMOVE ANY SUBSTANCES THAT WOULD INHIBIT BONDING.

THE COST FOR REMOVING THE OLD JOINT SYSTEM, INSTALLING THE NEW JOINT SYSTEM, LABOR, AND ANY MISCELLANEOUS MATERIALS NECESSARY TO INSTALL THE NEW EXPANSION JOINT, IS TO BE INCLUDED UNDER ITEM NUMBER 604-10.44, EXPANSION JOINT REPAIRS, L.F.

128.0

PF	ROJECT	NO.	YEAR	SHEET NO.			
35S015-M3-006			2025	B2			
REVISIONS							
NO. DATE BY BRIEF DESCRIPTION							
-+							



STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

BRIDGE TABULATION, ESTIMATED QUANTITIES, AND EXPANSION JOINT REPAIR NOTES 35-SR15-11.78 OVER PLEASANT RUN CREEK 35-SR15-16.09 35-SR15-16.37 35-SR15-16.47 35-SR15-16.64 35-SR15-16.99 35-SR15-17.26 35-SR15-17.52 OVER OVERFLOW 35-SR15-17.68 OVER HATCHIE RIVER BR. NOS. 35SR0150003 35SR0150051 35SR0150009 35SR0150053

35SR0150011 35SR0150013 35SR0150055 35SR0150015 35SR0150017

HARDEMAN COUNTY

2025

_							
		CONSTRUCTION SIGNS					
	DESCRIPTION	NO.REQ'D.	SIZE	SIGN I.D. NO.	QUANTITY	UNIT	
	LEFT LANE CLOSED SYMBOL (PORTABLE)	2	48 X 48	W4-2L	32	S.F.	
	RIGHT LANE CLOSED SYMBOL (PORTABLE)	2	48 X 48	W4-2R	32	S.F.	
	LEFT LANE CLOSED 1500 FT (PORTABLE)	2	48 X 48	W20-5L	32	S.F.	
	RIGHT LANE CLOSED 1500 FT (PORTABLE)	2	48 X 48	W20-5R	32	S.F.	

ITEM 712-06 SIGNS (CONSTRUCTION)

TABULATED TRAFFIC CONTROL QUANTITI				
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	148	
712-05.01	WARNING LIGHTS (TYPE A)	EACH	68	
712-05.03	WARNING LIGHTS (TYPE C)	EACH	80	
712-06	SIGNS (CONSTRUCTION)	S.F.	128	
712-08.03	ARROW BOARD (TYPE C)	EACH	2	
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2	

DESIGNED BY\_\_\_\_\_Z\_HAYNES DATE \_\_\_\_\_\_ DATE \_\_\_\_\_8/24 SUPERVISED BY K. MARTINKO DATE \_\_\_\_\_8/24 DATE \_\_\_\_ CHECKED BY\_\_\_

#### PIN 133798.00

PROJECT NO.	YEAR	SHEET NO.
35S015-M3-006	2025	B3

#### REVISIONS

# NO. DATE BY BRIEF DESCRIPTION

#### TYPE 1 THIN EPOXY OVERLAY NOTES:

TYPE 1 THIN EPOXY OVERLAY SYSTEM - <u>USE DECK PRETREATMENT/PRIMER PER MANUFACTURER'S RECOMMENDATION, AND 2 LIFTS OF AN EPOXY-URETHANE COPOLYMER AND AGGREGATE.</u> TYPE 1 OVERLAY SHALL BE APPLIED MECHANICALLY USING METERED EQUIPMENT; HAND MIXING OF MATERIAL IS NOT PERMITTED.

THIN OVERLAY SYSTEM SHALL BE FROM THE QUALIFIED PRODUCTS LIST 23.005 TYPE 1 THIN OVERLAY (EPOXY URETHANE). MINIMUM OVERLAY THICKNESS SHALL BE 3/8 INCH.
APPLICATION EQUIPMENT SHOULD:

A) BE CAPABLE OF METERING, MIXING AND DISTRIBUTING THE POLYMER AND PRETREATMENT TO MANUFACTURER'S RECOMMENDATION.

B) USE AN APPLICATION MACHINE THAT FEATURES POSITIVE DISPLACEMENT VOLUMETRIC METERING PUMPS CONTROLLED BY A HYDRAULIC POWER UNIT.

C) STORE COMPONENTS IN TEMPERATURE CONTROLLED RESERVOIRS CAPABLE OF MAINTAINING 100 DEGREES FAHRENHEIT (PLUS OR MINUS 10 DEGREES) TO INSURE OPTIMAL MIXING.

D) CHECK MIXING RATIO AT THE PUMP OUTLETS AS WELL AS CYCLE COUNTING CAPABILITIES TO MONITOR OUTPUT ON STANDARD FEATURES.

E) USE MOTIONLESS IN-LINE MIXING SO AS TO NOT OVERLY SHEAR THE MATERIAL TO ENTRAP AIR IN THE MIX.

F) MAXIMIZE MATERIAL WORKING TIME BY MIXING IT IMMEDIATELY BEFORE DISPENSING.

AGGREGATE SHALL BE ANGULAR, HAVING LESS THAN 0.2% MOISTURE AND FREE OF DIRT, CLAY, ASPHALT AND OTHER FOREIGN
OR ORGANIC MATERIALS. AGGREGATE FOR ALL LAYERS SHALL BE BAUXITE OR FLINT ROCK PRODUCTS FLINT AND MEETS THE FOLLOWING GRADATION:

SIEVE SIZE	% PASSIN
NO. 6	95-100
NO. 10	10-35
NO. 20	0-3

FULL AND PARTIAL DEPTH DECK REPAIR SHALL CURE A MINIMUM OF 28 DAYS BEFORE THE OVERLAY IS PLACED. THE 28 DAYS MAY BE WAIVED IF THE OVERLAY MANUFACTURER PROVIDES A METHOD OF TESTING THE REPAIRED AREAS AND APPROVES THE PLACEMENT BY LETTER. TRAFFIC SHALL BE ALLOWED TO USE THE BRIDGE DURING THE CURING PERIOD OF THE PATCHES BUT NOT AFTER SHOTBLASTING. MAGNESIUM PHOSPHATE BASED MATERIALS WILL NOT BE ALLOWED.

THE CONCRETE DECK SURFACE SHALL BE CLEANED BY SHOTBLASTING TO REMOVE ANY OIL, DIRT, RUBBER, TRAFFIC STRIPING, OR ANY OTHER POTENTIAL DETRIMENTAL MATERIAL SUCH AS CURING COMPOUND AND LAITANCES, WHICH THE MANUFACTURER AND ENGINEER'S OPINION WOULD PREVENT PROPER BONDING AND CURING OF THE MATERIAL. IN AREAS WHERE SHOTBLASTING EQUIPMENT CAN NOT REACH (I.E., ALONG CURBS AND BRIDGE RAILS) SANDBLASTING IS PERMITTED TO AN EXTENT TO THE ENGINEER'S AND MANUFACTURER'S APPROVAL. IMMEDIATELY BEFORE APPLICATION, ALL PREPARED SURFACES SHALL BE CLEANED WITH COMPRESSED AIR OR VACUUMED TO REMOVE DUST AND DEBRIS.

ALL SURFACES THAT ARE TREATED SHALL BE DRY AT THE TIME OF APPLICATION. THE OVERLAY SHALL NOT BE APPLIED WHEN IT HAS RAINED 24 HOURS PRIOR TO, OR RAIN IS FORECAST WITHIN 8 HOURS AFTER, APPLICATION. THE MOISTURE CONTENT IN THE DECK SUBSTRATE SHALL BE TESTED. MOISTURE IS NOT TO EXCEED 4.5 PERCENT WHEN MEASURED BY ELECTRONIC METER. IF THE TEST SHOWS EXCESS MOISTURE, THE DECK SHALL CONTINUE TO DRY BEFORE APPLICATION PROCEEDS.

BLUSHING (A WAXY SURFACE COATING ON THE EPOXY) IS CAUSED BY THE REACTION OF MOISTURE WITH THE HARDENING AGENT.
BLUSHING CREATES A SURFACE THAT MAKES FUTURE LAYERS DIFFICULT TO ADHERE.LIFTS THAT SHOW SIGNS OF BLUSHING SHALL
BE REMOVED AND REPLACED PRIOR TO APPLICATION OF THE NEXT. THE COST TO REMOVE AND REPLACE THESE AREAS SHALL BE AT
THE CONTRACTOR'S EXPENSE.

TRAFFIC, OTHER THAN APPLICATION EQUIPMENT, SHALL NOT BE ALLOWED ON ANY PORTION OF THE DECK THAT HAS BEEN SHOTBLASTED OR WHERE PART OF THE APPLICATION HAS BEEN PLACED.

SEE MANUFACTURER'S RECOMMENDATIONS FOR REQUIRED AMBIENT AND SURFACE TEMPERATURES AND HUMIDITY LIMITS FOR APPLICATION.

THE MANUFACTURER SHALL HAVE A REPRESENTATIVE ON THE JOB SITE AT ALL TIMES DURING APPLICATION AND CURE TIME. THE REPRESENTATIVE WITH THE ENGINEER, MAY SUSPEND AN ITEM OF WORK THAT IS SUSPECT AND DOES NOT MEET THE REQUIREMENTS OF THE SPECIFICATIONS. WORK SHALL NOT RESUME UNTIL THE ENGINEER AND REPRESENTATIVE ARE SATISFIED THAT APPROPRIATE REMEDIAL ACTION HAS BEEN TAKEN BY THE CONTRACTOR.

ALL COSTS FOR AGGREGATE, EPOXY FOR MINIMUM OF TWO LIFTS, SURFACE PREPARATION, LABOR AND ANY OTHER MISCELLANEOUS MATERIALS REQUIRED TO PLACE THIN OVERLAY SHALL BE INCLUDED IN ITEM NO.617-04.01, TYPE 1 THIN EPOXY OVERLAY (EPOXY URETHANE), SY.

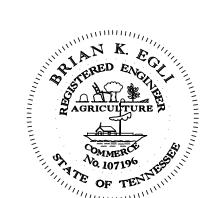
THICKNESS VERIFICATION: THE PROJECT ENGINEER SHALL BE NOTIFIED OF THE NUMBER OF GALLONS USED ON THE PROJECT WITH NOTARIZED QUANTITY STATEMENTS FROM THE CONTRACTOR AND THE MANUFACTURER. THE CONTRACTOR SHALL VERIFY TO TDOT THAT THE OVERLAY IS AN AVERAGE OF AT LEAST 3/8 INCH THICK AT THREE RANDOM LOCATIONS AGREED UPON BY THE PROJECT ENGINEER AND THE MATERIAL MANUFACTURER REPRESENTATIVE. IF 3/8 INCH AVERAGE IN NOT ACHIEVED, A RETEST SHAL BE PERFORMED IN ADJOINING AREAS. SHALL BE RE-COATED AS DESCRIBED ABOVE BY THE CONTRACTOR AND RE-VERIFIED AT NO ADDITIONAL COST TO TDOT. THIS VERIFICATION MAY CONSIST OF CORES, HOLES, ETC., BUT IN ALL CASES, ANY DESTRUCTIVELY TESTED AREAS SHALL BE REPAIRED BY THE CONTRACTOR BEFORE FINAL ACCEPTANCE BY THE PROJECT ENGINEER.

\*\* SPECIAL NOTE:

THE CONTRACTOR IS TO PREVENT THE TRACKING OF TACKCOAT AND CONSTRUCTION DEBRIS ACROSS THE BRIDGE DECK PRIOR TO APPLICATION OF THE THIN EPOXY OVERLAY.

MILLING THE BRIDGE DECK WILL NOT BE AN OPTION FOR TACKCOAT OR DEBRIS REMOVAL.

REMOVAL SHALL BE AT THE CONTRACTOR'S EXPENSE.



DEPARTMENT OF TRANSPORTATION

TYPE I THIN EPOXY

OVERLAY NOTES

35-SR15-11.78

OVER

PLEASANT RUN CREEK

35-SR15-16.09

35-SR15-16.47

35-SR15-16.64

35-SR15-16.99

35-SR15-17.26

35-SR15-17.52

OVER

OVERFLOW 35-SR15-17.68 OVER HATCHIE RIVER BR. NOS. 35SR0150003 35SR01500051 35SR0150009 35SR0150053

> 35SR0150011 35SR0150013 35SR0150055 35SR0150015 35SR0150017

HARDEMAN COUNTY 2025

PLAN VIEW
35-SR15-11.78
OVER
PLEASANT RUN CREEK
BR. NO. 35SR0150003
HARDEMAN COUNTY
2025

PIN 133798.C

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	35S015-M3-006		2025	B5			
	REVISIONS						
	NO. DATE BY			BRIEF	DESCRIPTION		
							-

86'-0" (OUT-TO-OUT)

-9" 22'-3" 22'-3" 22'-0" 22'-3" 1'-9"

PHASE I CONSTRUCTION PHASE I CONSTRUCTION

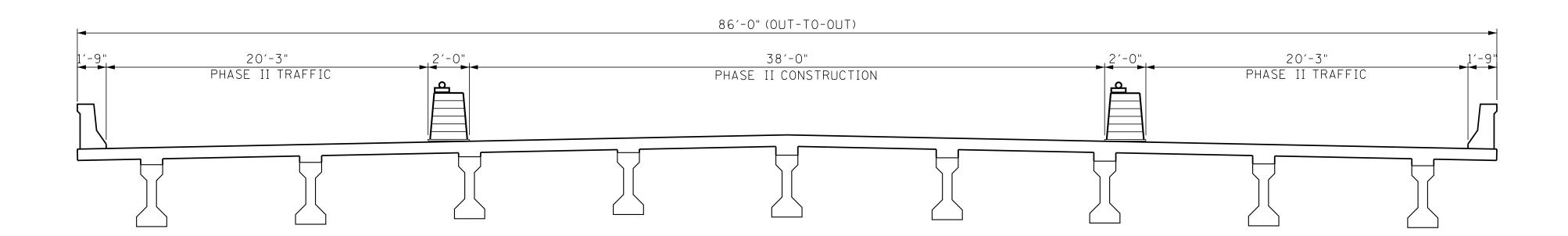
PHASE I TRAFFIC

## EASTBOUND BRIDGE

(35-SR15-11.78)

#### PHASE I CONSTRUCTION

(LOOKING AHEAD ON SURVEY)

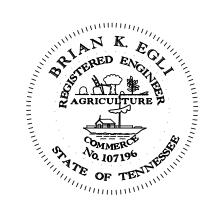


## EASTBOUND BRIDGE

(35-SR15-11.78)

## PHASE II CONSTRUCTION

(LOOKING AHEAD ON SURVEY)



DEPARTMENT OF TRANSPORTATION

PHASE CONSTRUCTION

35-SR15-11.78

OVER

PLEASANT RUN CREEK

BR. NO. 35SR0150003

HARDEMAN COUNTY

2025

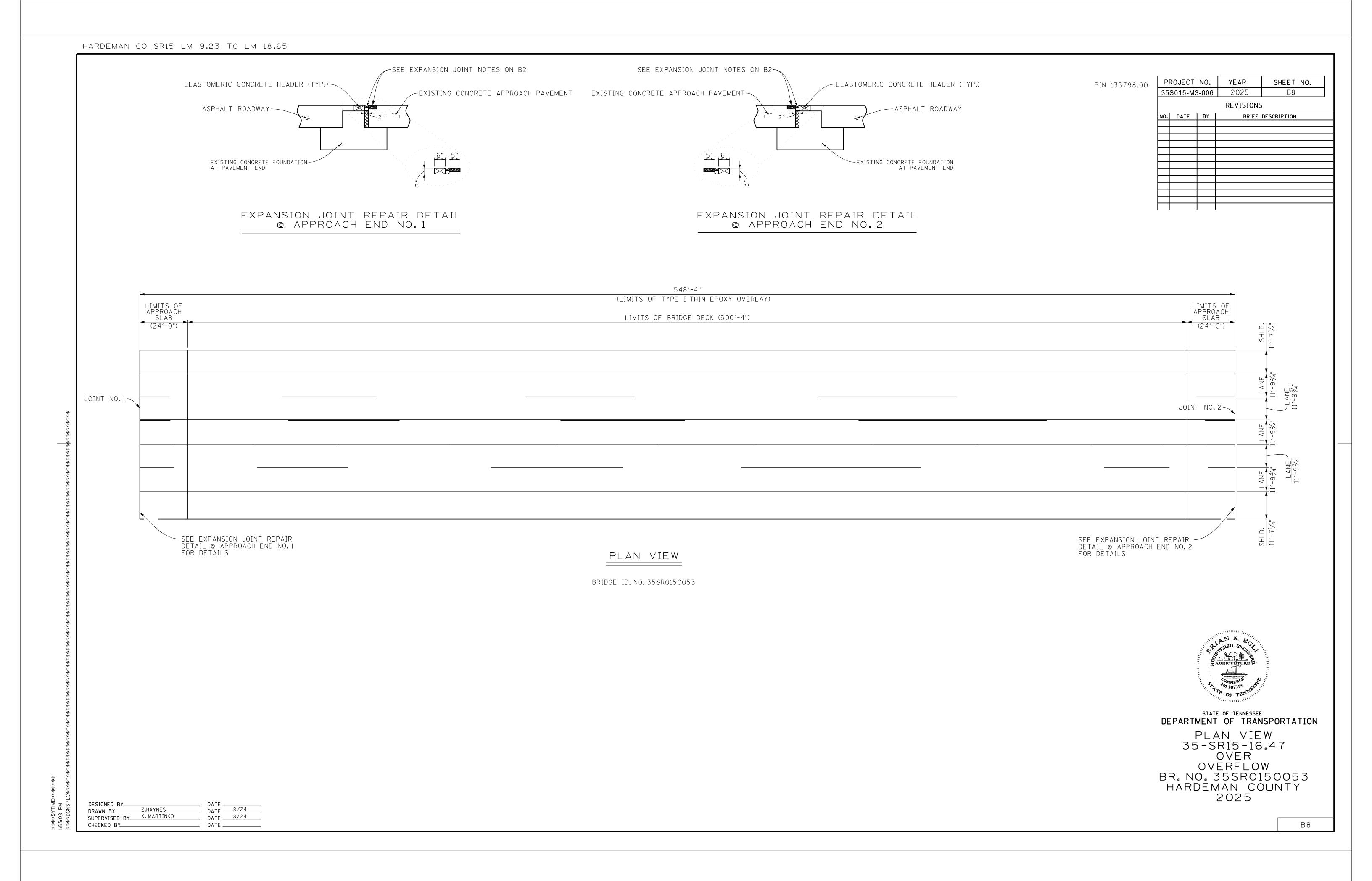
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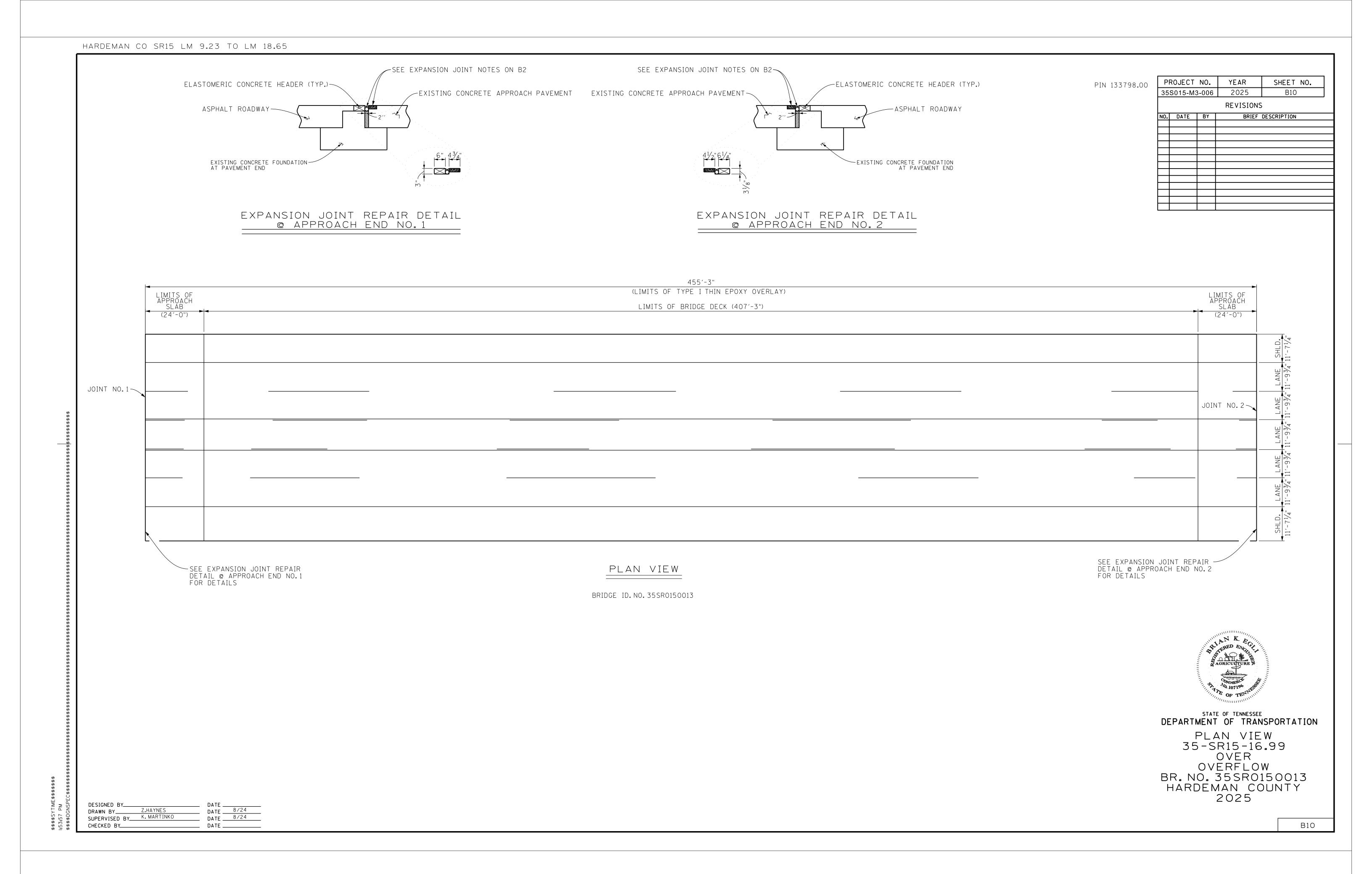
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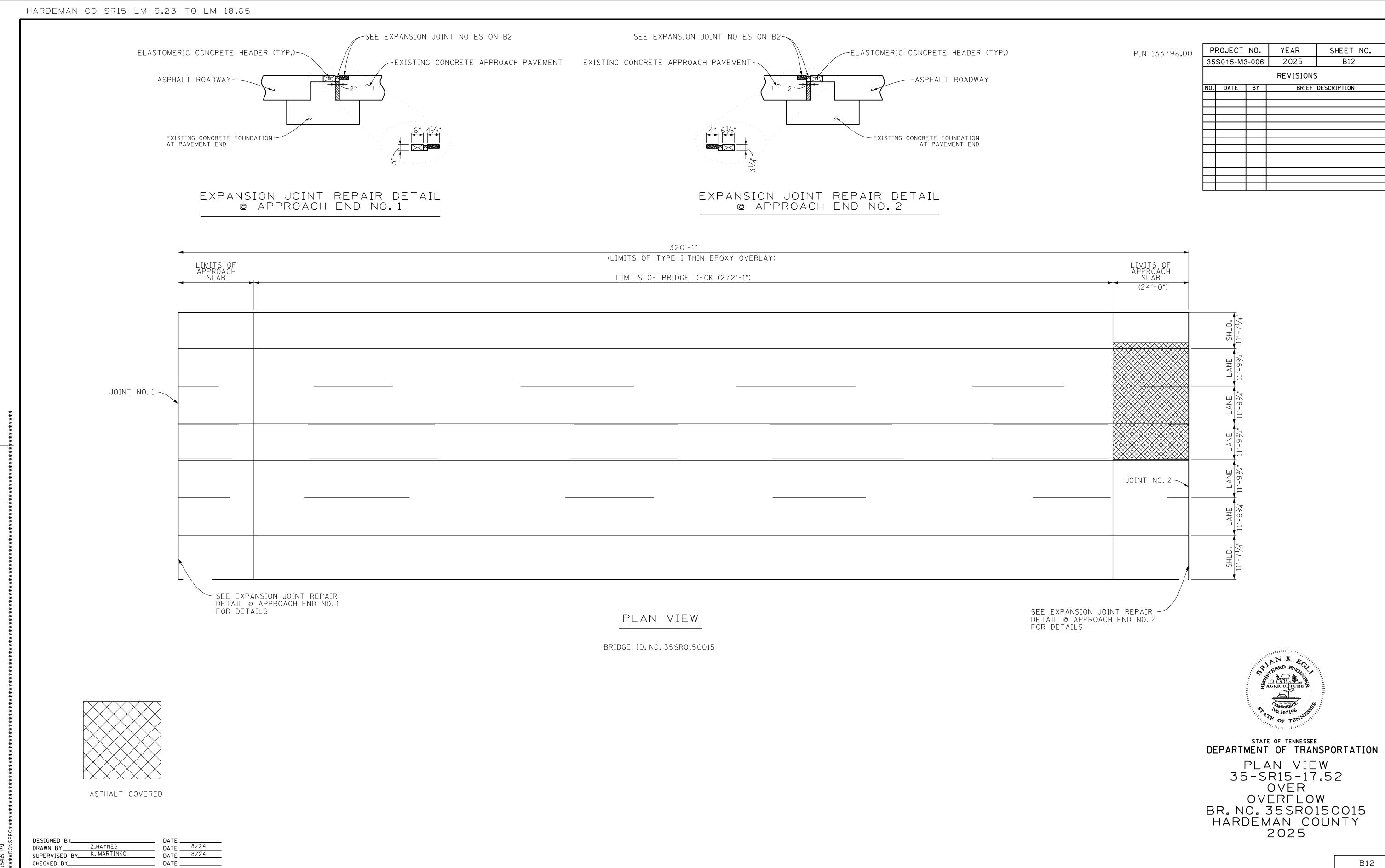
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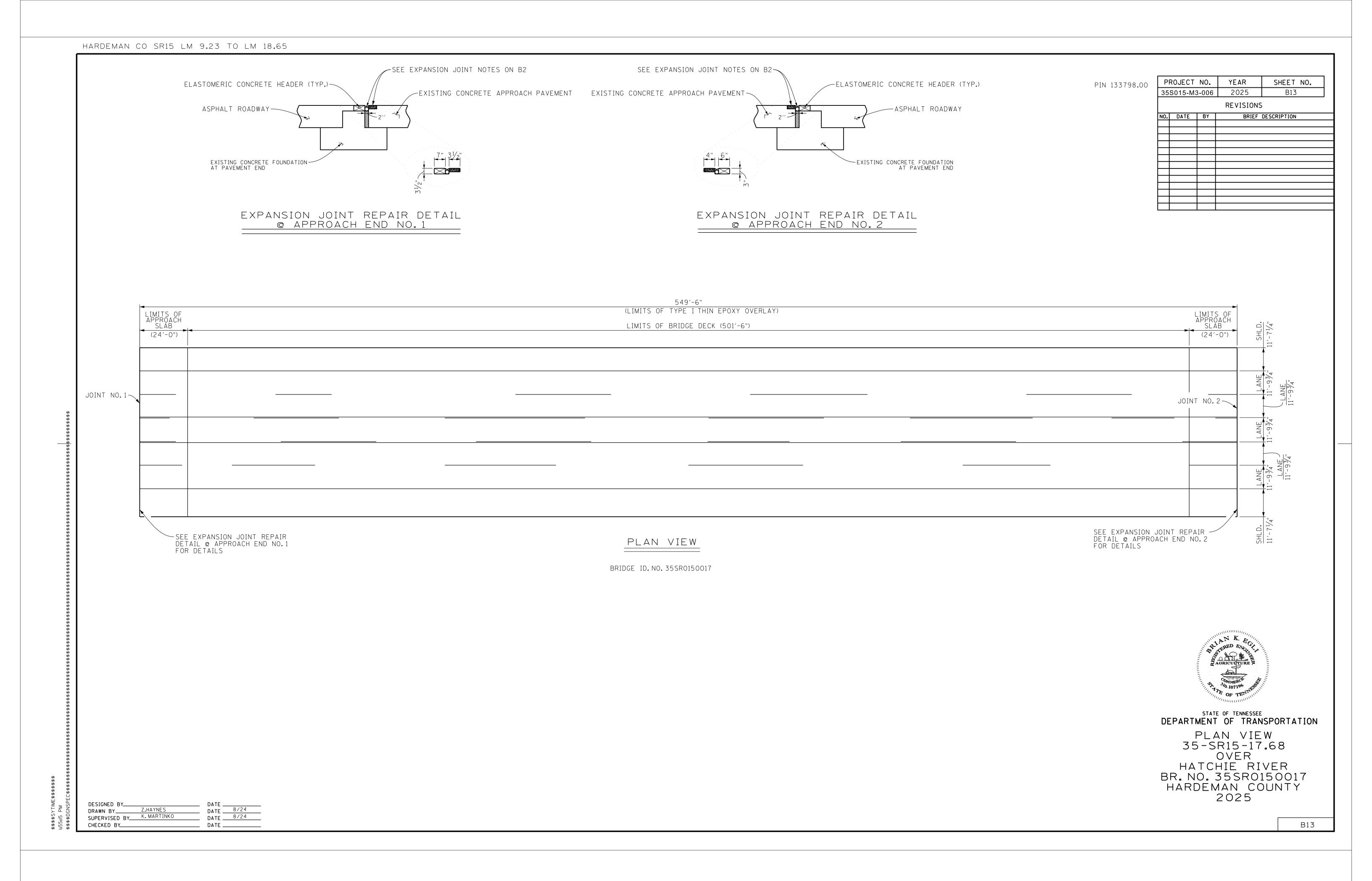


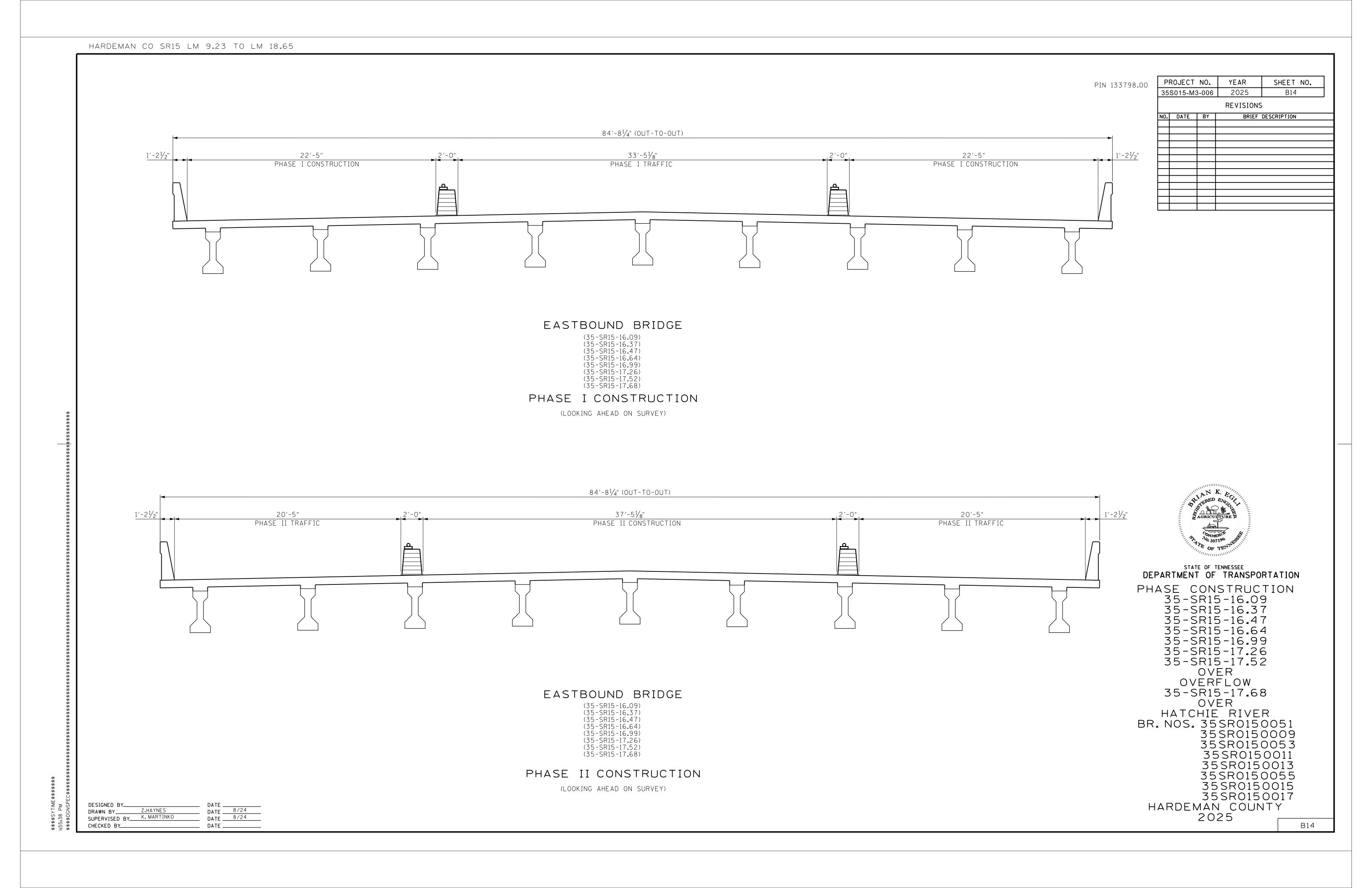
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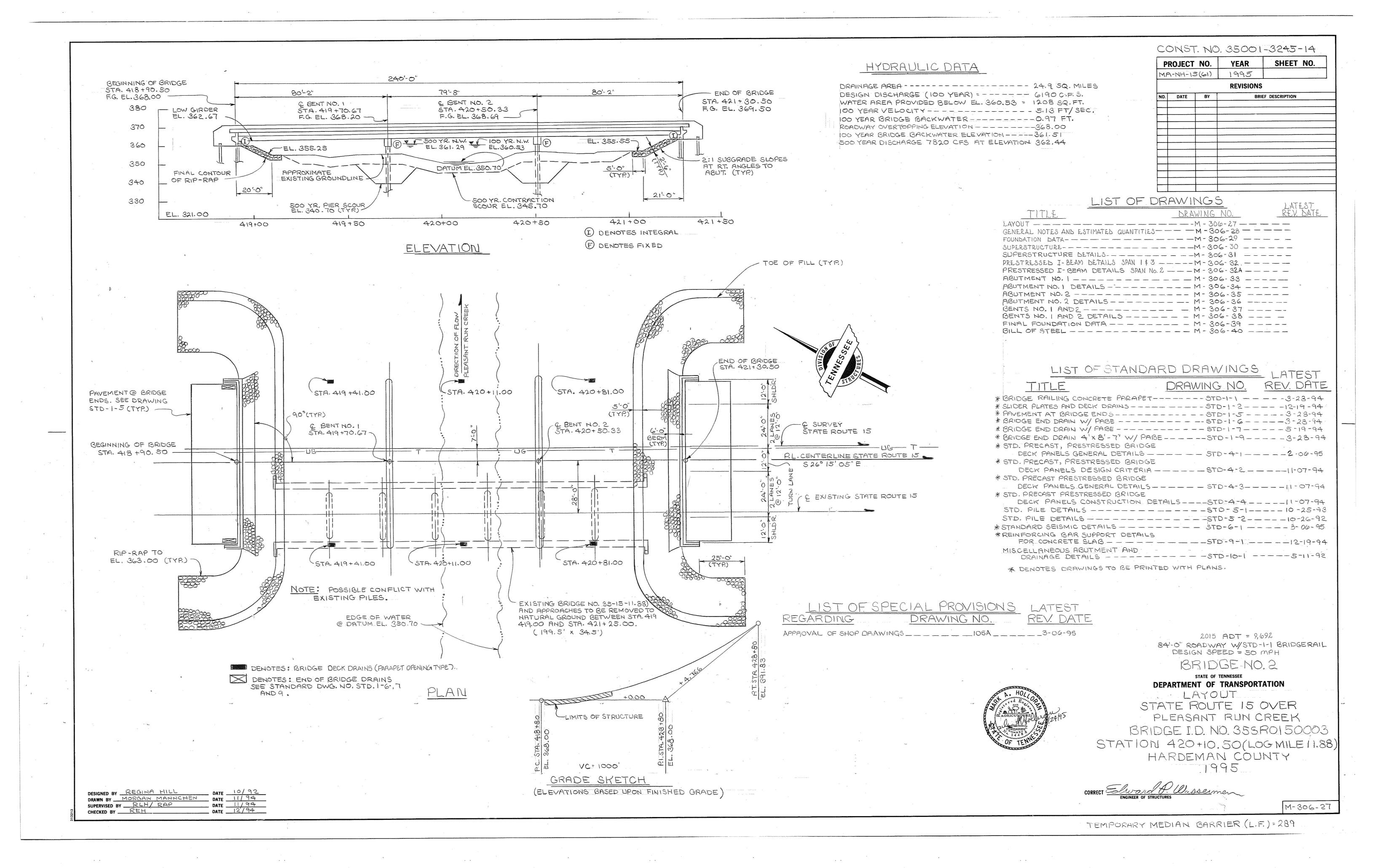


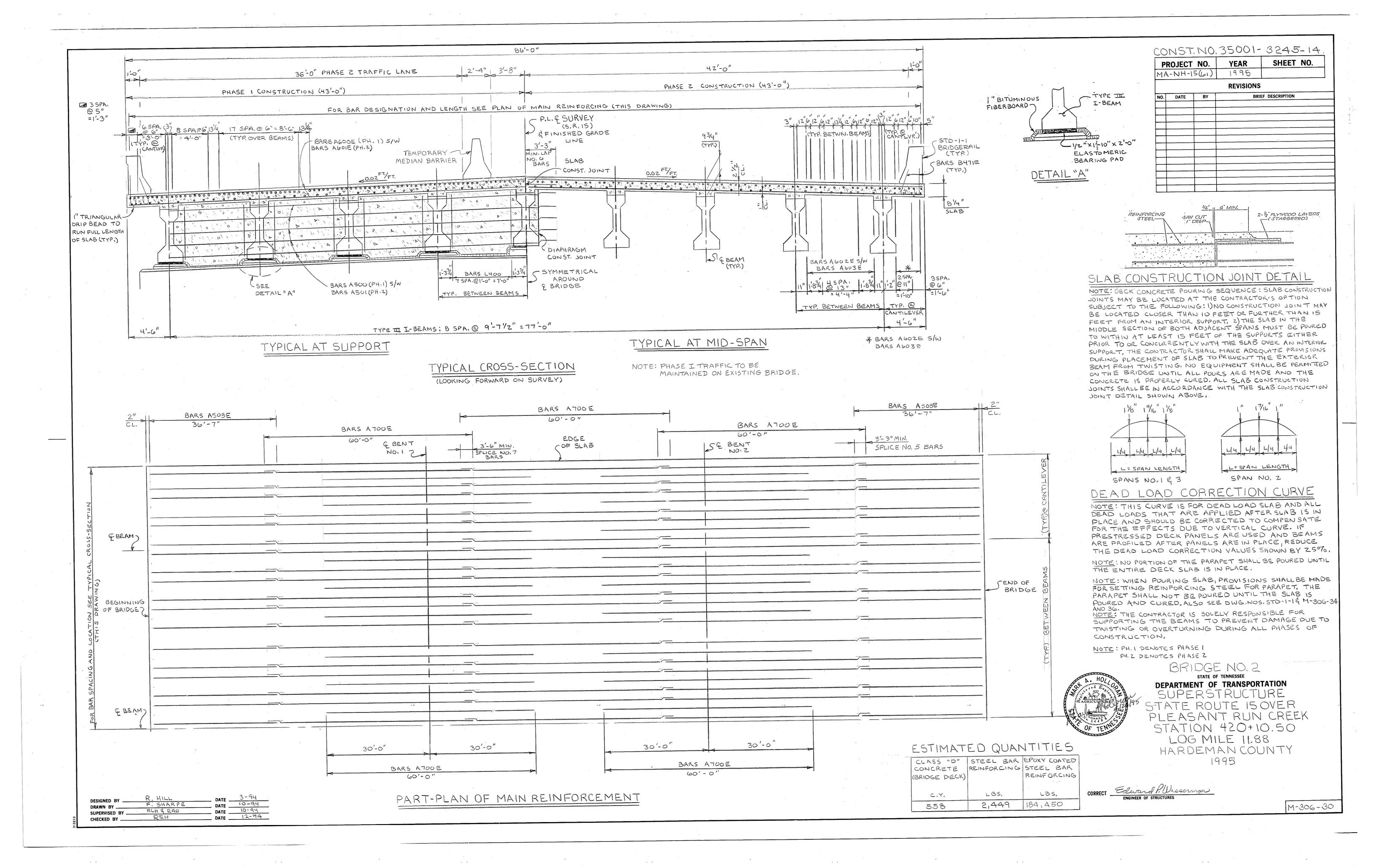
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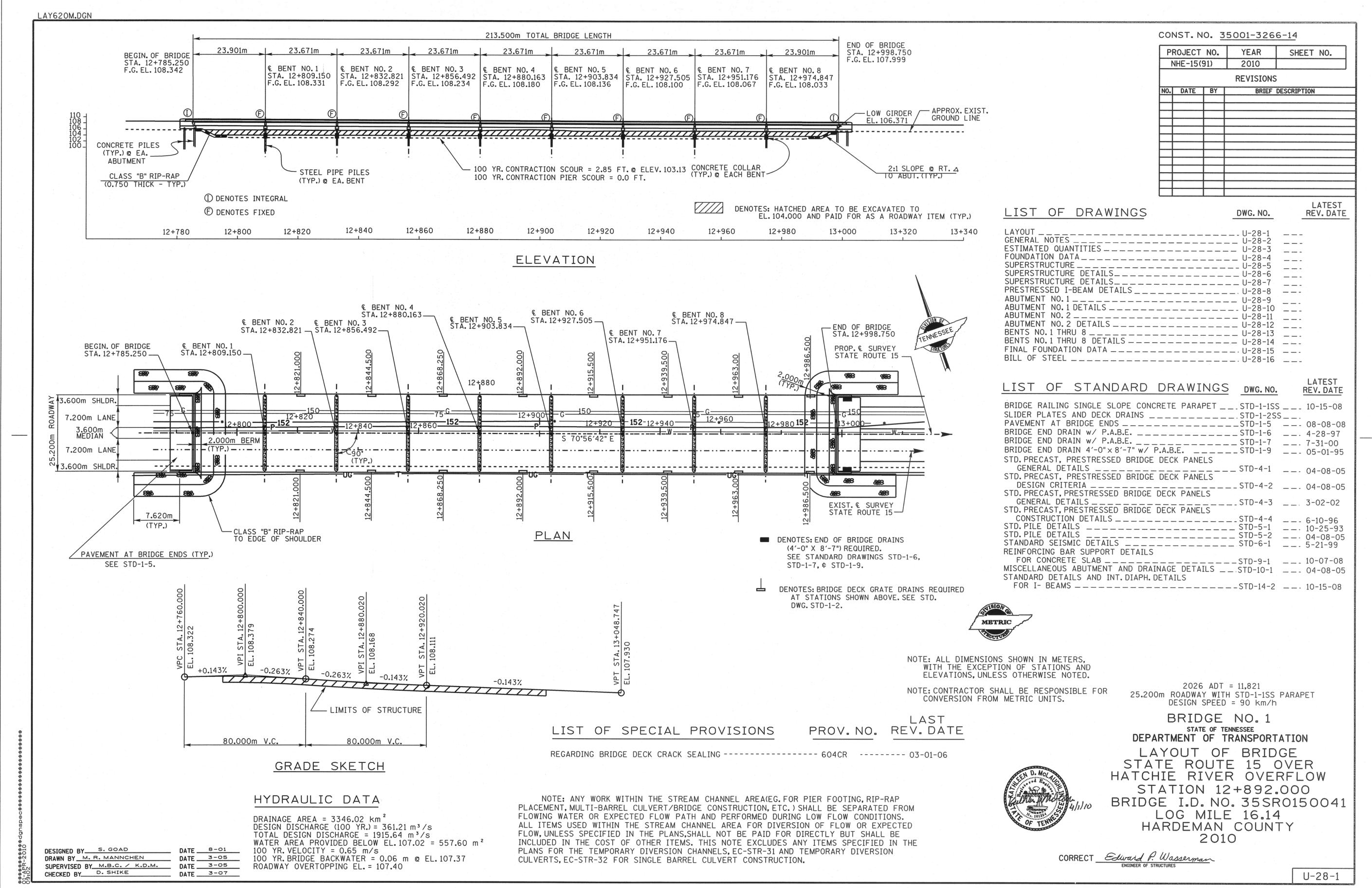
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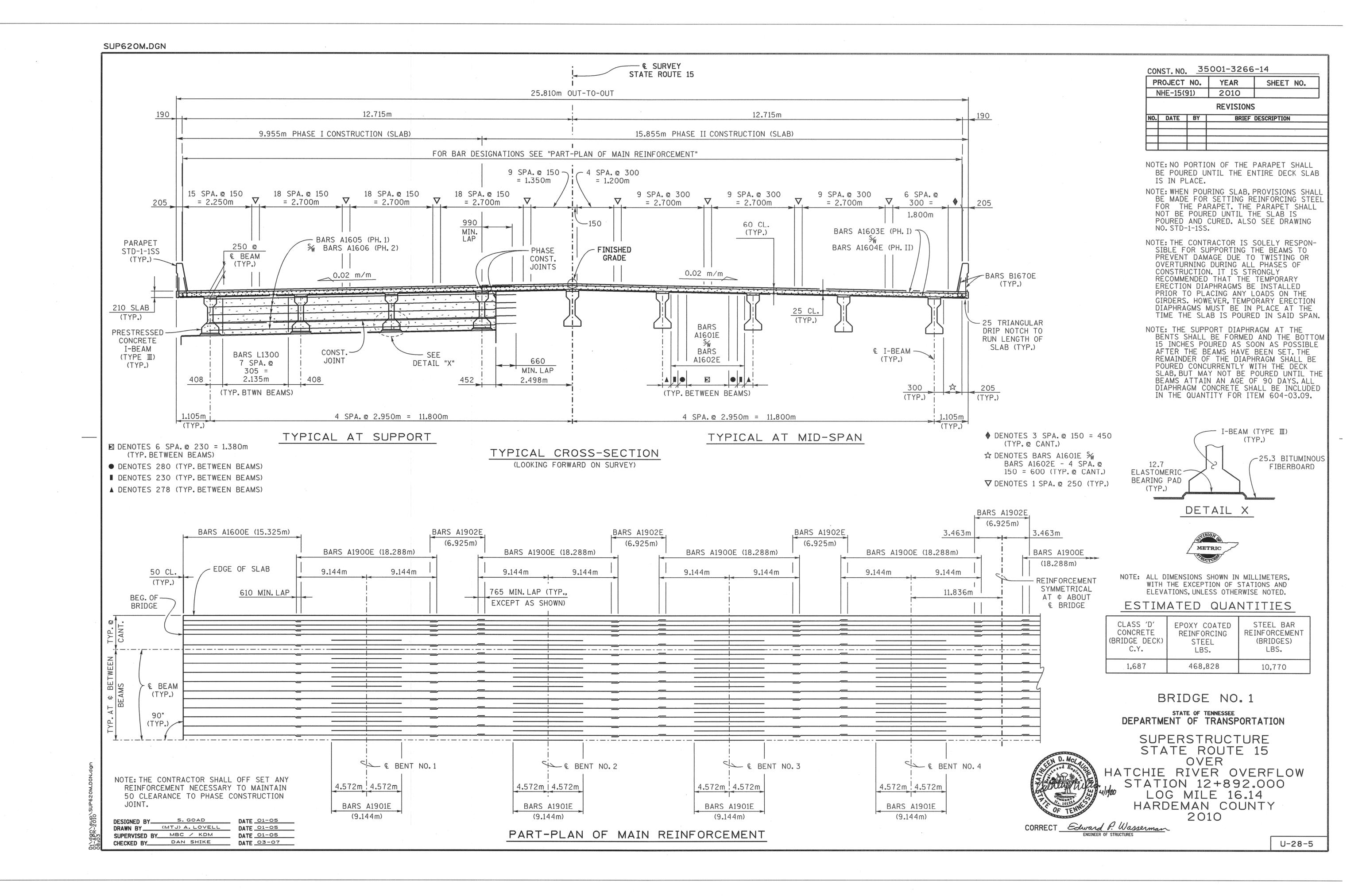


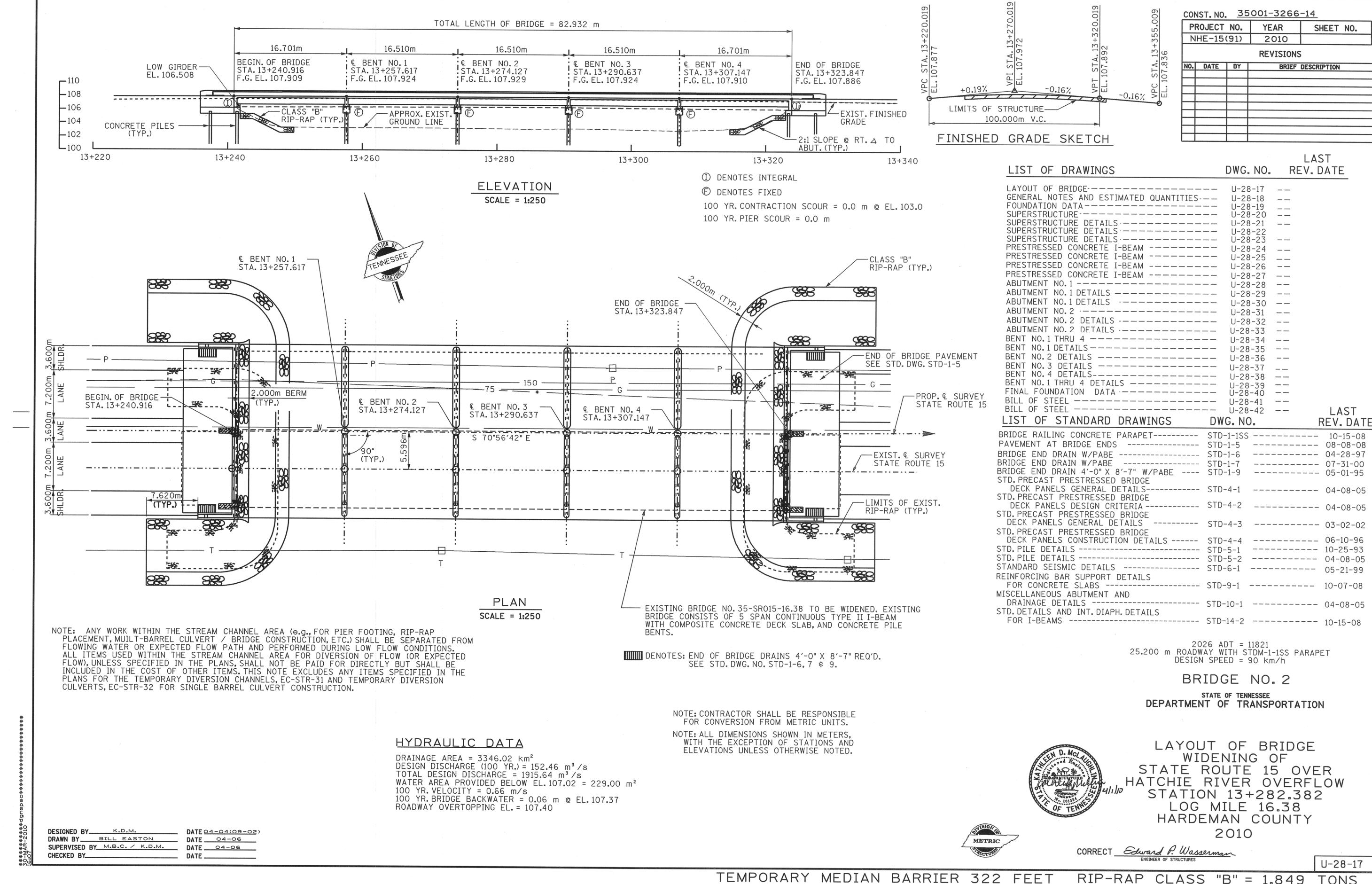




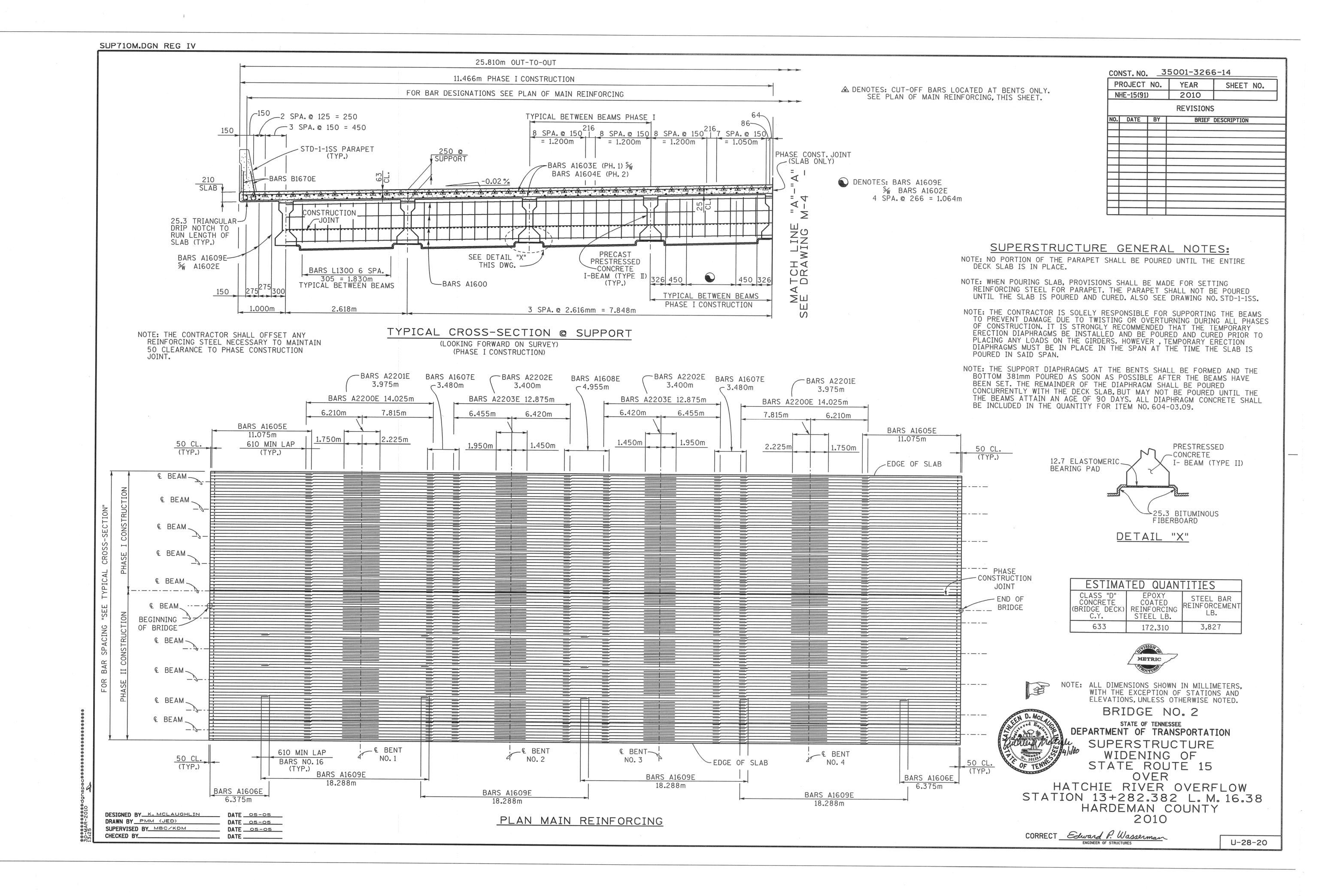








LAY710M.DGN

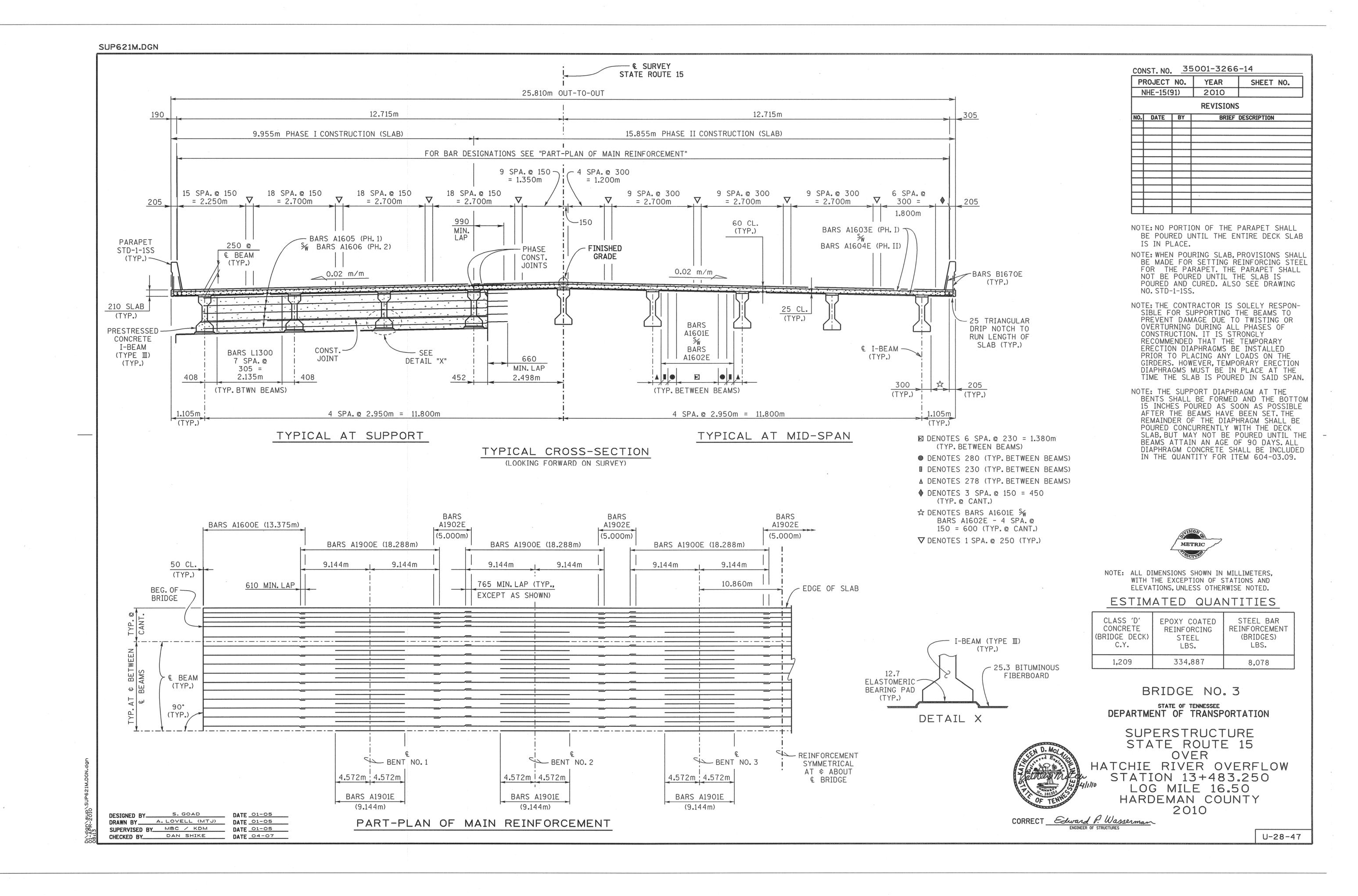


LAY621M.DGN TOTAL BRIDGE LENGTH = 152.500 m CONST. NO. 35001-3266-14 21.950 m 21.720 m 21.720 m 21.720 m 21.720 m PROJECT NO. SHEET NO. NHE-15(91) 2010 BEGIN. OF BRIDGE © BENT NO.2 STA.13+450.670 BENT NO.1 € BENT NO.4 BENT NO. 3 BENT NO.5 E BENT NO.6 END OF BRIDGE LOW GIRDER STA. 13+407.000 STA. 13+428.950 STA. 13+472.390 STA. 13+494.110 STA. 13+515.830 STA. 13+537.550 STA. 13+559.500 **REVISIONS** EL. 106.223 F.G. EL. 107.894 F.G. EL. 107.851 F.G. EL. 107.939 F.G. EL. 107.923 F.G. EL. 107.924 F.G. EL. 107.939 F.G. EL. 107.892 F.G. EL. 107.854 BRIEF DESCRIPTION \_\_\_\_\_\_ 102 100 - CONCRETE PILES (TYP.@ ABUTMENTS) ∠ STEEL PIPE PILES CONCRETE COLLAR -EXISTING GROUNDLINE 2:1 SLOPE AT RT. 4 TO (TYP.) @ BENTS (TYP.) @ BENTS ABUTMENT (TYP.) 13+380 13+400 13+420 13+440 13+460 13+480 13+500 13+520 13+540 13+560 13+580 (F) DENOTES FIXED. • DENOTES CLASS "B" RIP-RAP \* DENOTES: 100 YR. CONTRACTION SCOUR = 3.51 FT. @ ELEV. 102.93 (0.750 m THICK) - TYP. 100 YR. PIER SCOUR = 0.0 m (I) DENOTES INTEGRAL. HATCHED AREA DENOTES EXCAVATION TO EL. 104.000 (TO BE PAID FOR AS LATEST ELEVATION LIST OF DRAWINGS DWG. NO. REV. DATE A ROADWAY ITEM) LAYOUT OF BRIDGE \_\_\_\_\_ U-28-43 \_\_\_ GENERAL NOTES \_\_\_\_\_ U-28-44 \_\_\_ ESTIMATED QUANTITIES \_ \_ \_ \_ U-28-45 \_ \_ \_ FOUNDATION DATA \_\_\_\_\_ U-28-46 \_\_\_ SUPERSTRUCTURE \_ \_ \_ U-28-47 SUPERSTRUCTURE DETAILS \_\_\_\_\_\_ U-28-48 \_\_\_ -CLASS "B" RIP-RAP TO PROP. & SURVEY -SUPERSTRUCTURE DETAILS \_\_\_\_\_\_ U-28-49 \_\_\_ PRESTRESSED I-BEAM DETAILS \_\_\_\_\_ U-28-50 \_\_\_ STATE ROUTE 385 EDGE OF SHOULDER (TYP.) BEGIN. OF BRIDGE --€ BENT NO.6 ABUTMENT NO.1 \_\_\_\_\_ U-28-51 STA. 13+407.000 STA. 13+537.550 — € BENT NO.1 ABUTMENT NO.1 DETAILS \_\_\_\_\_ U-28-52 -€ BENT NO.4 STA. 13+428.950 STA. 13+494.110 ABUTMENT NO. 2 \_\_\_\_\_ U-28-53 - € BENT NO.5 ← € BENT NO. 3 BENT NO. 2 ABUTMENT NO. 2 DETAILS \_\_\_\_\_\_ U-28-54 STA. 13+515.830 STA. 13+472.390 STA. 13+450.670 BENTS NO.1 THRU 6 \_\_\_\_\_ U-28-55 \_\_. S\$\$ BENTS NO.1 THRU 6 DETAILS \_ \_ \_ \_ U-28-56 \_ \_ \_ FINAL FOUNDATION DATA \_\_\_\_\_ U-28-57 \_\_\_ 13+461.5 13+505 13+440 13+526.75 BILL OF STEEL \_\_\_\_ U-28-58 \_\_\_ ROADWAY LIST OF STANDARD DRAWINGS DWG. NO. REV. DATE BRIDGE RAILING SINGLE SLOPE CONCRETE PARAPET \_\_\_\_ STD-1-1SS \_\_\_ 10-15-08 SLIDER PLATES AND DECK DRAINS \_\_\_\_\_ STD-1-2SS \_\_\_ PAVEMENT AT BRIDGE ENDS \_\_\_\_\_ 08-08-08 BRIDGE END DRAIN W/ PABE \_\_\_\_\_\_ STD-1-7 \_\_\_ 7-31-00 BRIDGE END DRAIN 4'-0" x 8'-7" W/ PABE \_\_\_\_\_\_ STD-1-9 \_\_\_ 05-01-95 STD. PRECAST, PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS \_\_\_\_ 4-08-05 STD. PRECAST, PRESTRESSED BRIDGE DECK PANELS 13+505 13+548.5 13+461.5 13+526.75 13+440 DESIGN CRITERIA \_\_\_\_ 4-08-05 STD. PRECAST, PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS \_\_\_\_ 3-02-02 END OF BRIDGE -STD. PRECAST, PRESTRESSED BRIDGE DECK PANELS STA. 13+559.500 PLAN CONSTRUCTION DETAILS \_\_\_\_\_ STD-4-4 \_\_\_ 6-10-96 STD. PILE DETAILS \_\_\_\_ STD-5-1 \_\_\_ 10-25-93 ☑ DENOTES 3.600 m SHOULDER 7.620 m END OF BRIDGE PAVEMENT STD. PILE DETAILS \_\_\_\_\_ 4-08-05 DENOTES 3.600 m TURN LANE SEE STD. DWG. STD-1-5 (TYP.) -STANDARD SEISMIC DETAILS \_\_\_\_\_ 5-21-99 EXIST. & SURVEY — STATE ROUTE 385 STANDARD SEISMIC DETAILS \_\_\_\_\_ STD-6-2 \_\_\_ 11-07-94
REINFORCING BAR SUPPORT DETAILS  $\triangle$  DENOTES 2 LANES @ 3.600 m = 7.2000 m FOR CONCRETE SLAB \_\_\_\_\_ STD-9-1 \_\_\_ 11-07-08 MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS \_\_\_\_ STD-10-1 \_\_\_ 4-08-05 DENOTES: BRIDGE DECK GRATE DRAIN REQUIRED SEE STD. DWG. NO. STD-1-2 (TYPE 1) STANDARD DETAILS AND INT. DIAPH. DETAILS DENOTES: END OF BRIDGE DRAIN (4'-0" X 8'-7") REQ'D. FOR I- BEAMS \_\_\_\_\_ 10-15-08 SEE STD. DWG. NO. STD-1-6, 7 \$ 9. LAST LIST OF SPECIAL PROVISIONS PROV. NO. REV. DATE REGARDING BRIDGE DECK CRACK SEALING \_\_\_\_\_ 604CR \_\_\_\_ 03-01-06 2026 ADT = 11,821 25.200 m ROADWAY WITH STDM-1-1SS PARAPET DESIGN SPEED = 90 km/h HYDRAULIC DATA BRIDGE NO. 3 DRAINAGE AREA = 3346.02 km<sup>2</sup> DESIGN DISCHARGE (100 YR.) = 222.20 m³/s TOTAL DESIGN DISCHARGE = 1915.64 m³/s -0.1883% +0.1767% STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION WATER AREA PROVIDED BELOW EL. 106.34 = 332.00 m<sup>2</sup> LAYOUT OF BRIDGE 100 YR. VELOCITY = 0.67 m/s-LIMITS OF STRUCTURE 100 YR. BRIDGE BACKWATER = 0.06 m @ EL. 107.37 STATE ROUTE 15 OVER ROADWAY OVERTOPPING EL. = 107.40 HATCHIE RIVER OVERFLOW GRADE SKETCH - STATE ROUTE 15 STATION 13+483.250 BRIDGE I.D. NO. 35SR0150043 NOTE: ALL DIMENSIONS SHOWN IN METERS, NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA(EG. FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/BRIDGE CONSTRUCTION, ETC) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW OR EXPECTED FLOW, UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE WITH THE EXCEPTION OF STATIONS AND LOG MILE 16.50 ELEVATIONS, UNLESS OTHERWISE NOTED. HARDEMAN COUNTY NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR CONVERSION FROM METRIC UNITS. 2010 DESIGNED BY S. GOAD DATE \_\_\_\_8-01 Edward P. Wasserman DRAWN BY M. R. MANNCHEN DATE \_\_\_\_3-05 PLANS FOR THE TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMPORARY DIVERSION DATE \_\_\_\_\_3-05 SUPERVISED BY M.B.C./K.D.M. CULVERTS, EC-STR-32 FOR SINGLE BARREL CULVERT CONSTRUCTION.

CHECKED BY D. SHIKE

DATE \_\_\_\_3-05

U-28-43



LAY712M.DGN 93.193 TOTAL BRIDGE LENGTH 15.659 15.469 15.469 15.469 15.469 15.658 BEGIN. OF BRIDGE € BENT NO.2 STA.13+709.333 END OF BRIDGE BENT NO. 1 BENT NO. 3 BENT NO. 5 BENT NO. 4 LOW GIRDER STA. 13+678.205 STA. 13+755.740 F.G. EL. 107.956 STA. 13+771.398 STA. 13+693.864 STA. 13+724.802 STA. 13+740.271 110 EL. 106.492 F.G. EL. 107.893 .G. EL. 107.915 F.G. EL. 107.945 F.G. EL. 107.953 F.G. EL. 107.955 F.G. EL. 107.932 106 CONCRETE PILES (TYP.) 104 APPROX. EXIST CLASS "B" RIP-RAP (TYP.) 102 GROUND LINE EXIST. F.G. 13+660 13+680 13+700 13+720 13+780 13+740 LINE DENOTES 2:1 SLOPE @ RT. A TO ABUTMENT ① DENOTES INTEGRAL. ELEVATION (F) DENOTES FIXED. 100 YR. CONTRACTION SCOUR= 0.0 FT.@ 103.0 LIST OF DRAWINGS 100 YR. PIER SCOUR = 0.0m HYDRAULIC DATA DRAINAGE AREA = 3346.02 km² DESIGN DISCHARGE (100 YR.) = 160.95 m3/s -LIMITS OF STRUCTURE TOTAL DESIGN DISCHARGE = 1915.64 m3/s 130.000 V.C. WATER AREA PROVIDED BELOW EL. 106.02 = 239.00 m<sup>2</sup> 100 YR. VELOCITY = 0.66 m/s 100 YR. BRIDGE BACKWATER = 0.06 m @ EL.107.37 ROADWAY OVERTOPPING EL. = 107.40 GRADE SKETCH - STATE ROUTE 15 (NOT TO SCALE) BEGIN. OF BRIDGE-STA. 13+678.205 - CLASS "B" RIP-RAP TO EDGE OF SHOULDER - € BENT NO. 4 STA. 13+740.271 © BENT NO.1 STA.13+693.864 € BENT NO. 2 -€ BENT NO.3 STA. 13+709.333 STA. 13+724.802 END OF BRIDGE STA. 13+771.398 2.000 BERM (TYP.) -PROP. & SURVEY STATE ROUTE 15 8 S70°56′42″E \(TYP.) EXIST. & SURVEY STATE ROUTE 15 -END OF BRIDGE PAVEMENT SEE STD. DWG. STDM-1-5 C45------7.620 € BENT NO.5 STA. 13+755.740 -EXISTING STRUCTURE TO BE WIDENED CONSISTS OF 6-SPAN CONTINUOUS PRECAST PRESTRESSED TYPE II I-BEAMS WITH CONCRETE DECK SLAB. BRIDGE LENGTH = 93.193m. DENOTES: END OF BRIDGE DRAINS (4'-0" X 8'-7") REQ'D. SEE STD. DWG. STD-1-6, 7, AND 9. PLAN NOTE: ALL DIMENSIONS ARE SHOWN IN METERS. WITH THE EXCEPTION OF STATIONS AND ELEVATIONS. NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA(EG. FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/BRIDGE CONSTRUCTION, ETC) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW OR EXPECTED FLOW, UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE UNLESS OTHERWISE NOTED. NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR CONVERSION FROM METRIC UNITS. INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE DESIGNED BY K.D. MCLAUGHLIN DATE 8-01 PLANS FOR THE TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMPORARY DIVERSION DRAWN BY M. MANNCHEN DATE 5-10 CULVERTS, EC-STR-32 FOR SINGLE BARREL CULVERT CONSTRUCTION. SUPERVISED BY M.B.C./K.D.M. \_\_\_\_ DATE \_\_\_\_5-10

CHECKED BY\_

DATE \_\_\_

CONST. NO. 35001-3266-14 PROJECT NO. YEAR SHEET NO. 2010 NHE-15(91) REVISIONS BRIEF DESCRIPTION

REV. DATE GENERAL NOTES AND ESTIMATED QUANTITIES \_ \_ \_ \_ U-28-59 \_ \_ -FOUNDATION DATA \_\_\_\_\_ U-28-61 \_\_\_ SUPERSTRUCTURE \_\_\_\_\_ U-28-62 \_\_\_ SUPERSTRUCTURE DETAILS \_\_\_\_\_ U-28-63 \_\_\_ SUPERSTRUCTURE DETAILS \_\_\_\_\_ U-28-64 \_\_\_ U-28-65 \_\_\_ PRESTRESSED I-BEAM DETAILS (SPAN 1 AND 6) \_\_\_\_ U-28-66 \_\_\_ U-28-67 PRESTRESSED I-BEAM DETAILS (SPAN 1 AND 6) \_\_\_\_\_ U-28-67 \_\_\_ PRESTRESSED I-BEAM DETAILS (SPANS 2 THRU 5) \_\_\_\_ U-28-68 \_\_\_ PRESTRESSED I-BEAM DETAILS (SPANS 2 THRU 5) \_\_\_\_ U-28-69 \_\_\_ ABUTMENT NO.1 \_\_\_\_\_ U-28-70 \_\_\_ ABUTMENT NO. 1 DETAILS \_\_\_\_\_ U-28-71 \_\_\_ ABUTMENT NO. 2 \_\_\_\_\_ U-28-72 \_\_\_ ABUTMENT NO. 2 DETAILS \_\_\_\_\_ U-28-73 \_\_\_ ABUTMENT NO.1 AND 2 DETAILS \_\_\_\_\_ U-28-74 \_\_\_ BENTS NO.1 THRU 5 \_\_\_\_\_ U-28-75 \_\_\_ BENT NO.1 DETAILS \_\_\_\_\_ U-28-76 \_\_\_ BENT NO. 2 DETAILS \_\_\_\_\_ U-28-77 \_\_\_ BENT NO. 3 DETAILS \_\_\_\_ U-28-78 \_\_\_ BENT NO. 4 DETAILS \_ \_ \_ \_ \_ U-28-79 \_ \_ \_ BENT NO. 5 DETAILS \_ \_ \_ \_ U-28-80 \_ \_ \_ BENT NO.1 THRU 5 DETAILS \_\_\_\_\_ U-28-81 \_\_\_ FINAL FOUNDATION DATA \_\_\_\_\_ U-28-82 \_\_\_ BILL OF STEEL ----- U-28-83 \_\_\_ BILL OF STEEL ----- U-28-84 ---

LATEST LIST OF STANDARD DRAWINGS REV. DATE BRIDGE RAILING SINGLE SLOPE CONCRETE PARAPET \_ \_ \_ \_ STD-1-1SS \_ \_ \_ 10-15-08 PAVEMENT AT BRIDGE ENDS \_ \_ \_ 08-08-08 BRIDGE END DRAIN W/ PABE \_\_\_\_\_\_ STD-1-6 \_\_\_ 4-28-97 BRIDGE END DRAIN W/ PABE \_\_\_\_\_ 5TD-1-7 \_\_\_ 7-31-00 BRIDGE END DRAIN 4'-0" x 8'-7" W/ PABE \_\_\_\_\_\_STD-1-9 \_\_\_ 05-01-95 STD. PRECAST. PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS \_\_\_\_\_ 4-08-05 STD. PRECAST, PRESTRESSED BRIDGE DECK PANELS DESIGN CRITERIA \_\_\_\_\_ 4-08-05 STD. PRECAST, PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS \_\_\_\_\_ 3-02-02 STD. PRECAST, PRESTRESSED BRIDGE DECK PANELS CONSTRUCTION DETAILS \_\_\_\_\_ STD-4-4 \_\_\_ 6-10-96 STD. PILE DETAILS \_\_\_\_\_ STD-5-1 \_\_\_ 10-25-93 STD. PILE DETAILS \_\_\_\_\_\_ STD-5-2 \_\_\_ 4-08-05 STANDARD SEISMIC DETAILS \_\_\_\_\_ STD-6-1 \_\_\_ 5-21-99 REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLAB \_\_\_\_\_\_STD-9-1 \_\_\_ 10-07-08
MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS \_\_\_\_\_ STD-10-1 \_\_\_ 4-08-05 STANDARD DETAILS AND INT. DIAPH. DETAILS FOR I- BEAMS \_\_\_\_\_\_STD-14-2 \_\_\_ 10-15-08

> 2026 ADT = 11.821 25.200 m ROADWAY WITH STD-1-1SS PARAPET DESIGN SPEED = 90 km/h BRIDGE NO. 4

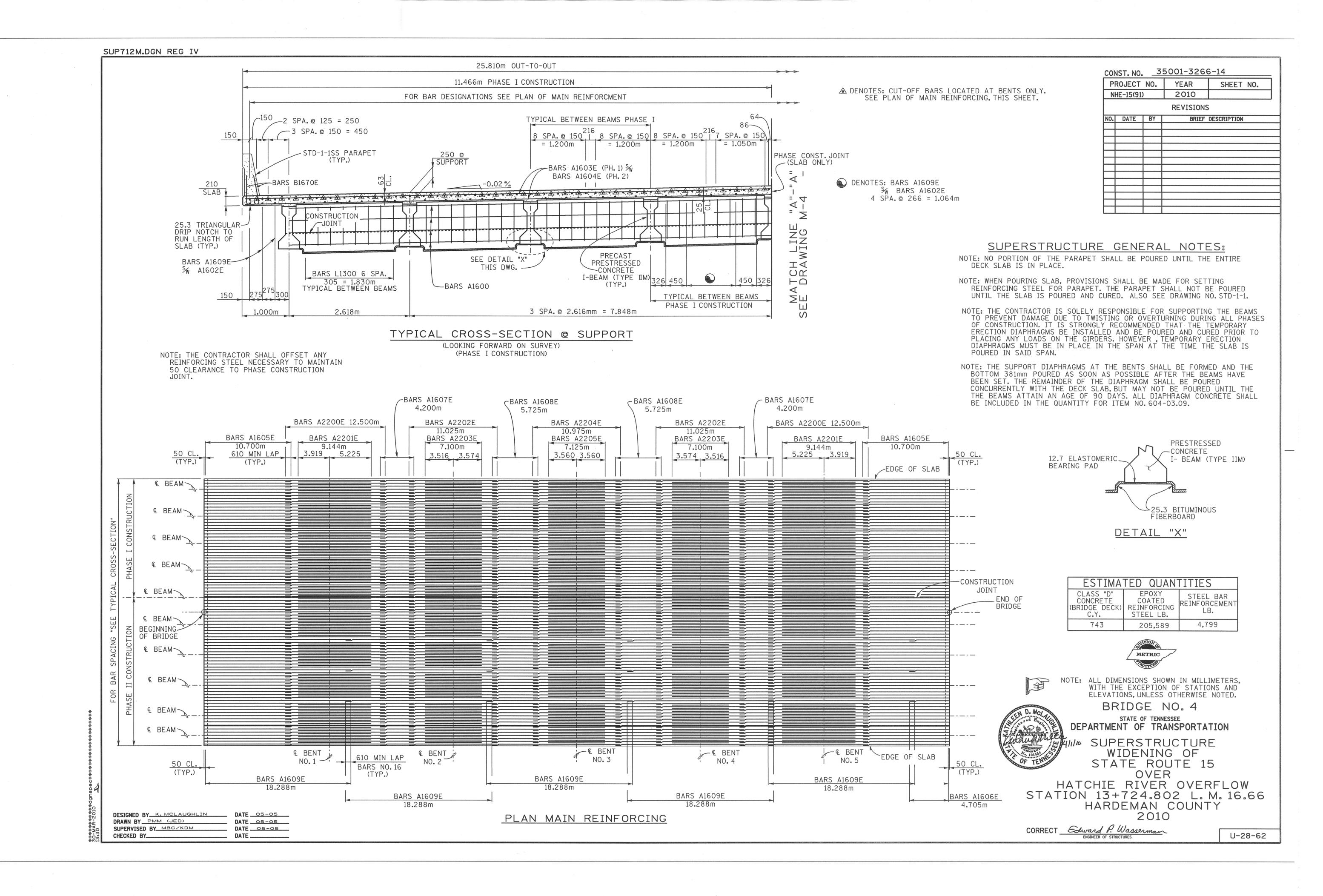
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

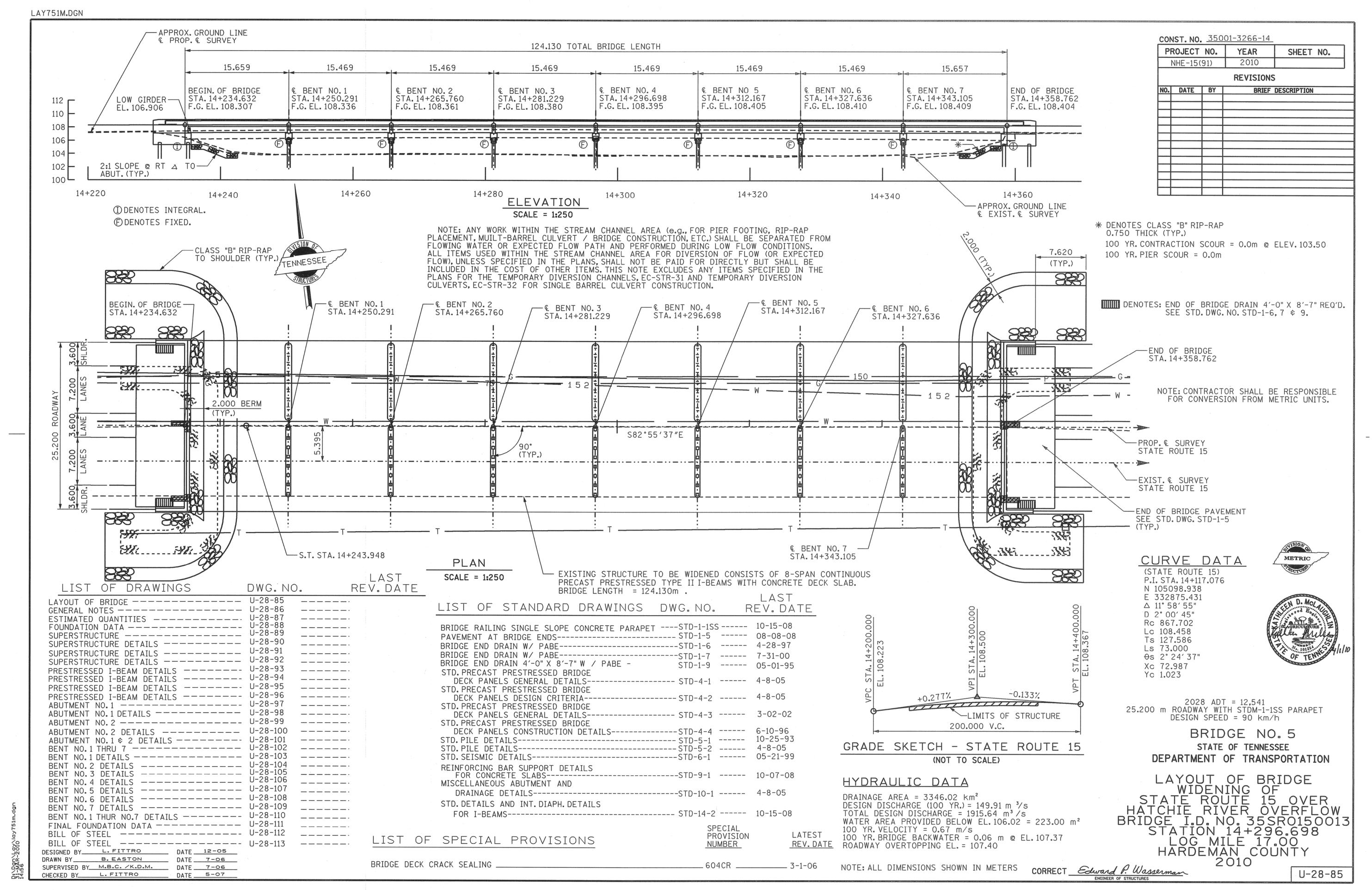
LAYOUT OF BRIDGE WIDENING OF STATE ROUTE 15 OVER HATCHIE RIVER OVERFLOW STATION 13+724.802 BRIDGE I.D.NO. 35SR0150011 LOG MILE 16.66 HARDEMAN COUNTY 2010

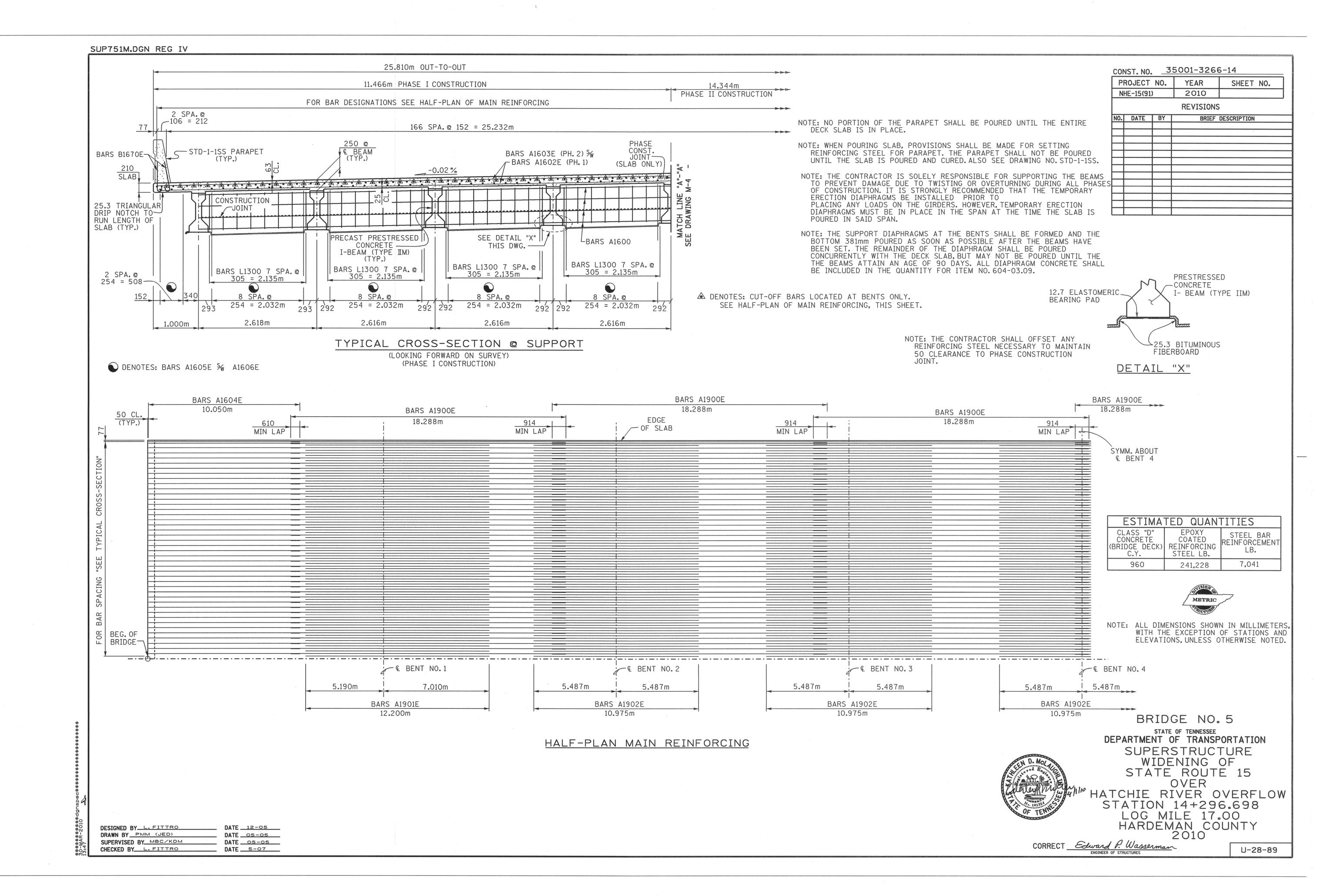
CORRECT Edward P. Wasserman

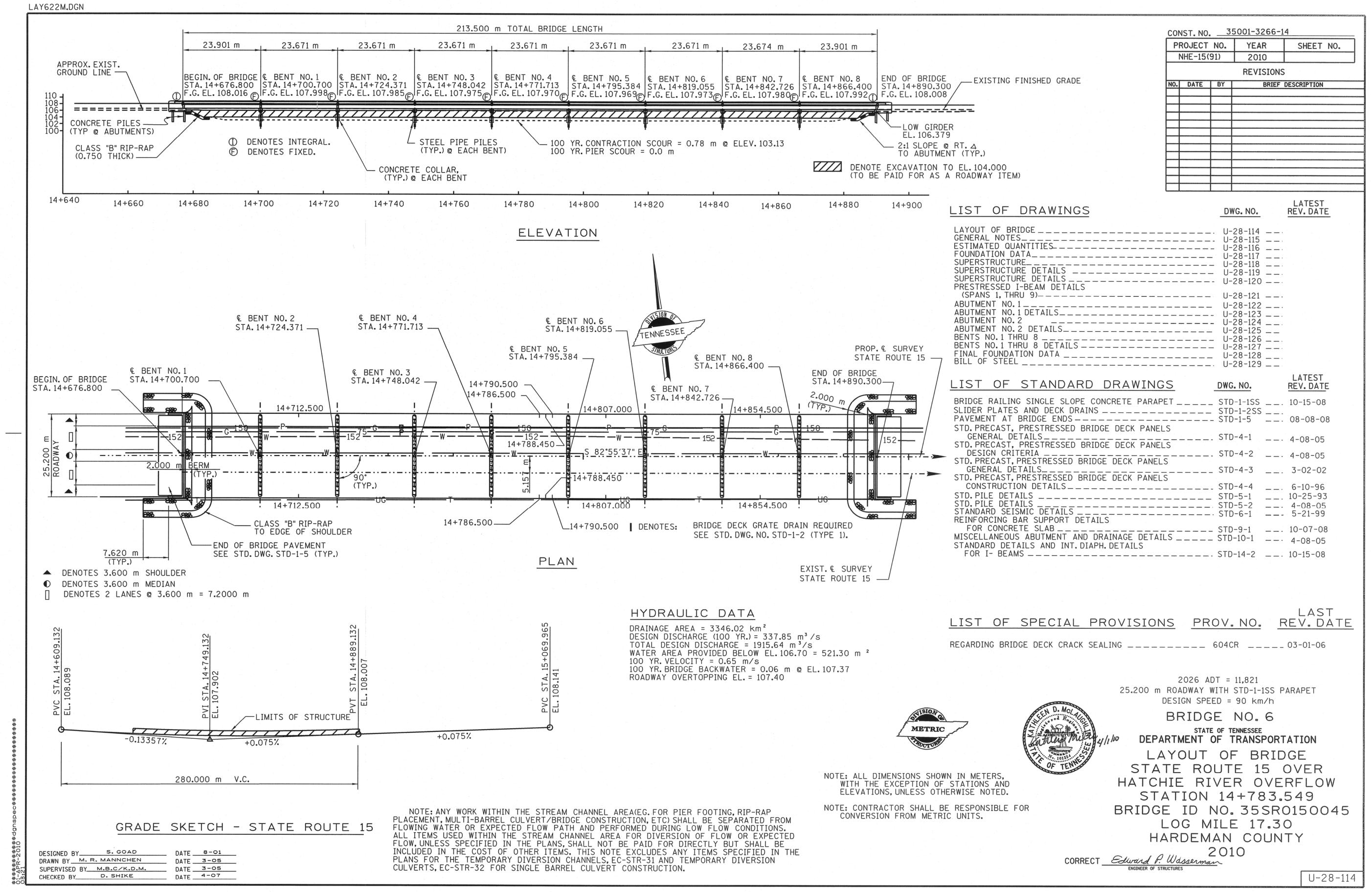
ENGINEER OF STRUCTURES

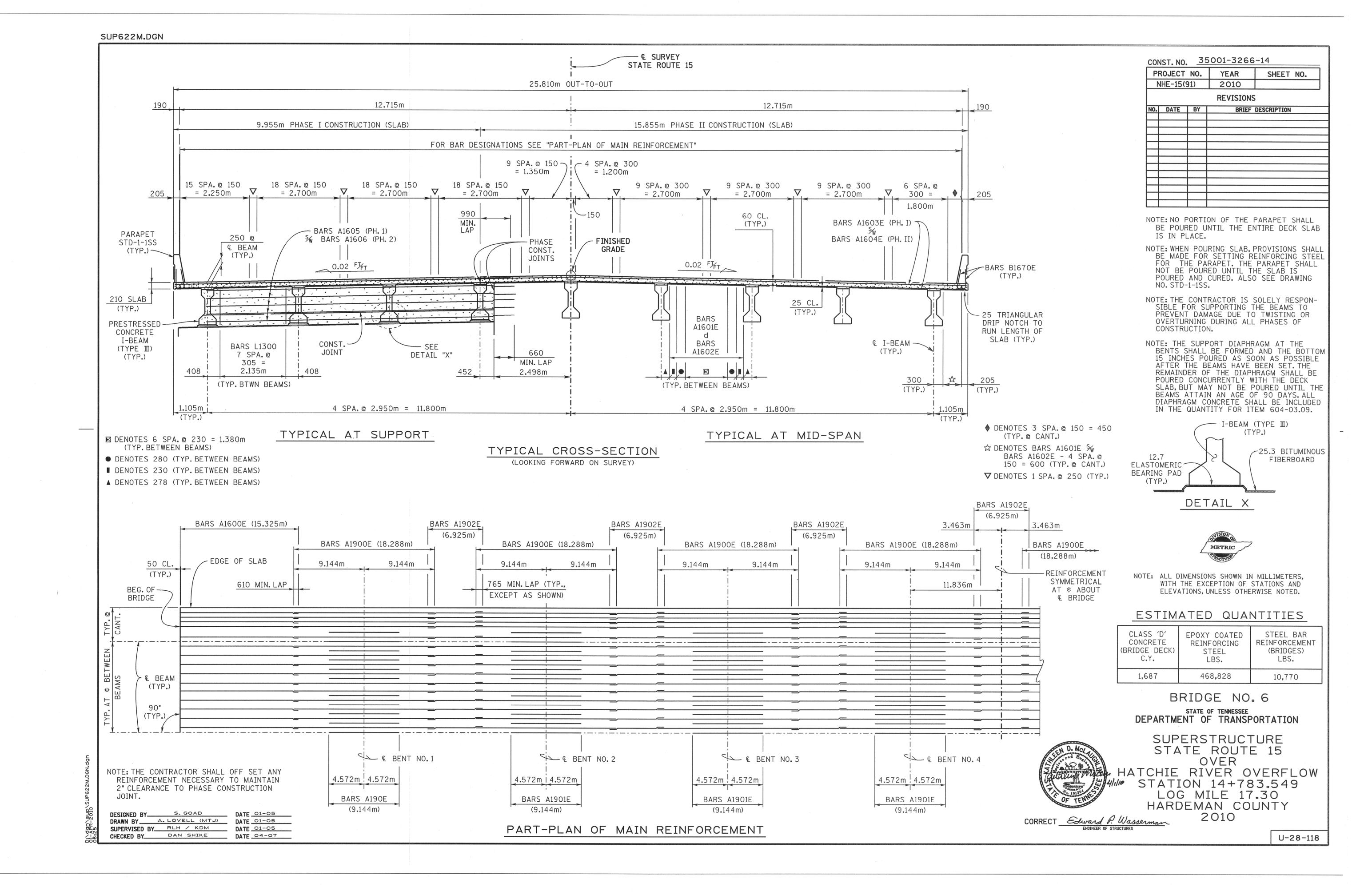
U-28-59











LAY711M.DGN 82.931 TOTAL BRIDGE LENGTH EXISTING FINISH GRADE -16.701 16.510 16.510 16.700 16**.**510 BENT NO. 1 BEGIN. OF BRIDGE BENT NO. 2 END OF BRIDGE BENT NO. 3 BENT NO. 4 112 -STA. 15+108.029 STA. 15+124.539 STA. 15+157.559 STA. 15+174.259 STA. 15+091.328 STA. 15+141.049 APPROX. EXIST. .G. EL. 108.196 F) F.G. EL. 108.347 ① F.G. EL. 108.418 ① F.G. EL. 108.165 (F) F.G. EL. 108.236 F.G. EL. 108.287 110 GROUND LINE (TYP.) 108 -------104 -2:1 SLOPE @ RT. △ TO CLASS "B" RIP-RAP — 0.750 THICK (TYP.) 102 -ABUTMENT (TYP.) 100 15+120 15+160 15+100 15+140 15+180 15+080 ELEVATION 100 YR. CONTRACTION SCOUR = 0.0 FT. @ ELEV. 104.5 (I) DENOTES INTEGRAL. 100 YR. PIER SCOUR = 0.0m DENOTES FIXED. NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA(EG. FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/BRIDGE CONSTRUCTION, ETC) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. LIMITS OF STRUCTURE — ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW OR EXPECTED FLOW, UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMPORARY DIVERSION 111111 CULVERTS, EC-STR-32 FOR SINGLE BARREL CULVERT CONSTRUCTION. +0.0757% 140.000 V.C. 7.620 (TYP.) BENT NO. 3 € BENT NO.1 BEGIN. OF BRIDGE € BENT NO.2 STA. 15+141.049 STA. 15+108.029 STA. 15+091.328 STA. 15+124.539 END OF BRIDGE PAVEMENT SEE STD. DWG. STD-1-5 (TYP.) STD. PRECAST, PRESTRESSED BRIDGE DECK PANELS 7.200 ANFS CONSTRUCTION DETAILS \_\_\_\_\_ STD-4-4 \_\_\_ 6-10-96 PROPOSED & SURVEY (S. R. 15) FOR CONCRETE SLAB

MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS \_\_\_\_ STD-10-1 \_\_\_ 4-08-05 FOR CONCRETE SLAB EXISTING & SURVEY STANDARD DETAILS AND INT. DIAPH. DETAILS (S.R.15) (TYP.) FOR I- BEAMS \_\_\_\_\_ 10-15-08 END OF BRIDGE STA. 15+174.259 888° \ (4£) ---- (4£) € BENT NO.4 L....3#2..... PLAN STA. 15+157.559 CLASS "B" RIP-RAP EXISTING BRIDGE NO. 35-SR015-17.55 TO BE WIDENED. EXISTING TO EDGE OF SHOULDER BRIDGE CONSISTS OF 5 SPAN CONTINUOUS TYPE II I-BEAM WITH COMPOSITE CONCRETE DECK SLAB, AND CONCRETE PILE HYDRAULIC DATA BENTS. DRAINAGE AREA = 3346.02 km<sup>2</sup> DESIGN DISCHARGE (100 YR.) = 90.59 m<sup>3</sup>/s DENOTES: END OF BRIDGE DRAIN (4'-0" X 8'-7") REQ'D. TOTAL DESIGN DISCHARGE = 1915.64 m3/s SEE STD. DWG. NO. STD-1-6, 7 \$ 9. NOTE: ALL DIMENSIONS SHOWN IN METERS, WATER AREA PROVIDED BELOW EL. 107.02 = 140.10 m<sup>2</sup>
100 YR. VELOCITY = 0.65 m/s
100 YR. BRIDGE BACKWATER = 0.06 m @ EL. 107.37 WITH THE EXCEPTION OF STATIONS, AND ELEVATIONS LESS NOTED OTHERWISE. ROADWAY OVERTOPPING EL. = 107.40 NOTE: CONTRACTOR SHALL BE RESPONSIBLE DESIGNED BY K. MCLAUGHLIN DATE 8-01

DRAWN BY M.R.M. (K.D.M.)

SUPERVISED BY M.B.C. / K.D.M.

DATE 8-01

B-01 FOR CONVERSION FROM METRIC UNITS.

DATE 8-01

CHECKED BY\_\_\_

CONST. NO. 35001-3266-14 PROJECT NO. YEAR SHEET NO. 2010 NHE-15(91) **REVISIONS** BRIEF DESCRIPTION

		LATEST
LIST OF DRAWINGS	DWG. NO.	REV. DATE
LAYOUT OF BRIDGE GENERAL NOTES ESTIMATED QUANTITIES FOUNDATION DATA SUPERSTRUCTURE SUPERSTRUCTURE DETAILS SUPERSTRUCTURE DETAILS SUPERSTRUCTURE DETAILS SUPERSTRUCTURE DETAILS PRESTRESSED I-BEAM DETAILS (SPAN 1 AND 5) PRESTRESSED I-BEAM DETAILS (SPANS 2 THRU 4) PRESTRESSED I-BEAM DETAILS (SPANS 2 THRU 4) PRESTRESSED I-BEAM DETAILS (SPANS 2 THRU 4) ABUTMENT NO. 1 DETAILS ABUTMENT NO. 1 DETAILS ABUTMENT NO. 2 DETAILS ABUTMENT NO. 2 DETAILS BENT NO. 1 THRU 4 BENT NO. 1 THRU 4 BENT NO. 3 DETAILS BENT NO. 4 DETAILS BENT NO. 4 DETAILS BENT NO. 1 THRU 4 DETAILS BENT NO. 5 TEEL BILL OF STEEL	- U-28-131 U-28-132 U-28-133 U-28-135 U-28-136 U-28-137 U-28-139 U-28-140 U-28-141 U-28-141 U-28-145 U-28-146 U-28-147 U-28-148 U-28-149 U-28-150 U-28-151 U-28-151 U-28-151 U-28-151 U-28-153 U-28-154 U-28-155 U-28	
LIST OF STANDARD DRAWINGS	DWG. NO.	LATEST REV. DATE
BRIDGE RAILING SINGLE SLOPE CONCRETE PARAPET  PAVEMENT AT BRIDGE ENDS  BRIDGE END DRAIN W/ PABE  BRIDGE END DRAIN W/ PABE  BRIDGE END DRAIN 4'-0" x 8'-7" W/ PABE  STD. PRECAST, PRESTRESSED BRIDGE DECK PANELS  GENERAL DETAILS  STD. PRECAST, PRESTRESSED BRIDGE DECK PANELS  DESIGN CRITERIA  STD. PRECAST, PRESTRESSED BRIDGE DECK PANELS	_STD-1-5 STD-1-6 STD-1-7 STD-1-7 STD-1-9	<ul> <li>— 08-08-08</li> <li>— 4-28-97</li> <li>— 7-31-00</li> <li>— 05-01-95</li> <li>— 4-08-05</li> </ul>
GENERAL DETAILS	STD-4-3	_ 3-02-02

2026 ADT = 11.821 25.200 m ROADWAY WITH STDM-1-1 PARAPET DESIGN SPEED = 90 km/h

> BRIDGE NO. 7 STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

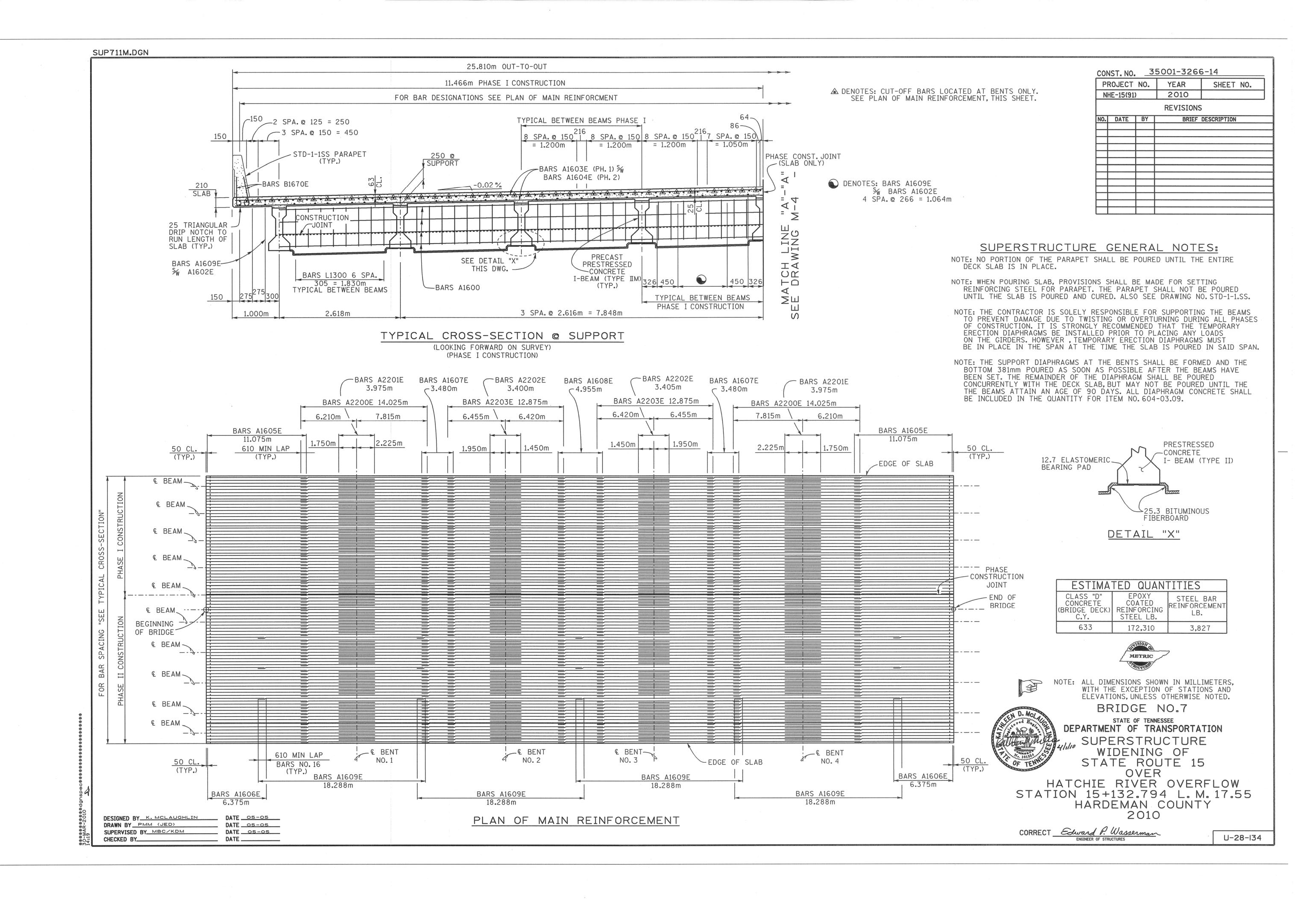


LAYOUT OF BRIDGE WIDENING OF STATE ROUTE 15 OVER HATCHIE RIVER OVERFLOW STATION 15+132.794 BRIDGE I.D. NO. 35SR0150015 LOG MILE 17.55 HARDEMAN COUNTY 2010



CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

U-28-130



152.858 TOTAL BRIDGE LENGTH CONST. NO. 35001-3226-14 30.709 30.480 PROJECT NO. 30.480 30.480 YEAR 30.709 SHEET NO. BEGIN. OF BRIDGE BENT NO.1 BENT NO. 2 BENT NO. 3 & BENT NO. 4 NHE-15(91) 2010 END OF BRIDGE STA. 15+350.450 STA. 15+442.119 STA. 15+381.159 STA. 15+411.639 STA. 15+503.307 F.G. EL. 109.237 STA. 15+472.599 F.G. EL. 109.084 F.G. EL. 109.115 F.G. EL. 109.146 **REVISIONS** .G. EL. 109.176 F.G. EL. 109.207 110 BRIEF DESCRIPTION NO. DATE BY 108 10/21/10 DJS | REV. SHOULDER WIDTH AND REV. DATES 106 EXIST. FINISHED 104 **-**102 **-**EL. 102.000 CLASS "B" RIP-RAF -EXIST. GROUND LINE 2:1 SLOPE @ RT. 100 0.750 THICK. TO ABUT. (TYP.) @ @ SURVEY 15+340 15+360 15+380 15+400 15+420 15+440 15+460 15+480 15+500 15+520 ELEVATION \* 100 YR. CONTRACTION SCOUR = 5.45 FT @ EL. 98.34 ① DENOTES INTEGRAL. 100 YR. PIER SCOUR = 0.0 FT. DENOTES FIXED. -CONCRETE COLLARS @ BENTS 1, 3 AND 4 1 LATEST LIST OF DRAWINGS DWG. NO. REV. DATE -EDGE OF WATER LAYOUT OF BRIDGE \_\_\_\_\_ 10-21-10 DATUM EL. 102.000 GENERAL NOTES \_\_\_\_\_U-28-158 \_\_\_ ESTIMATED QUANTITIES \_ \_ \_ \_ 10-21-10 CLASS "B" RIP-RAP FOUNDATION DATA\_\_\_\_\_ U-28-160 \_\_\_ TO SHOULDER (TYP.) 7.620 SUPERSTRUCTURE\_\_\_\_ 10-21-10 & BENT NO. 2 -€ BENT NO. 4 (TYP.) SUPERSTRUCTURE DETAILS \_\_\_\_\_\_U-28-162 \_\_- 10-21-10 STA. 15+411.639 STA. 15+472.599 BEGIN. OF BRIDGE 3.210 OUL DE SUPERSTRUCTURE DETAILS \_\_\_\_\_\_U-28-163 \_\_- 10-21-10 STA. 15+350.450 € BENT NO.1 ₽ BENT NO. 3 PRESTRESSED I-BEAM DETAILS \_\_\_\_\_\_U-28-164 \_\_-STA. 15+381.159 STA. 15+442.119 ABUTMENT NO.1 \_ \_ \_ \_ \_ \_ U-28-165 \_ \_ - 10-21-10 15+365.75 15+396.5 15+426.75 15+457.25 15+485.75 ABUTMENT NO.1 DETAILS \_\_\_\_\_\_U-28-166 \_\_- 10-21-10 ABUTMENT NO. 2 \_\_\_\_\_ U-28-167 \_\_\_ 10-21-10 ABUTMENT NO. 2 DETAILS \_\_\_\_\_ U-28-168 \_\_. 10-21-10 PAVEMENT AT BRIDGE ENDS ABUTMENT NO.1 AND 2 DETAILS \_\_\_\_\_\_ U-28-169 \_\_- 10-21-10 SEE STD DWG. STD-1-5 BENTS NO. 1 AND 4 \_\_\_\_\_ U-28-170 \_\_\_ BENT NO. 2 ----- U-28-171 ---S82 55 37 F BENT NO.3 ----- U-28-172 ---FINAL FOUNDATION DATA \_\_\_\_\_ U-28-173 \_\_\_ U-21-10 \_ PROPOSED & SURVEY BILL OF STEEL \_\_\_\_\_ U-28-174 \_\_- 10-21-10 LATEST LIST OF STANDARD DRAWINGS DWG. NO. REV. DATE BRIDGE RAILING SINGLE SLOPE CONCRETE PARAPET \_\_\_\_\_STD-1-1SS \_\_ 10-15-08 END OF BRIDGE SLIDER PLATES AND DECK DRAINS \_\_\_\_\_.STD-1-2SS\_\_ STA. 15+503.307 PAVEMENT AT BRIDGE ENDS \_\_\_\_\_\_STD-1-5 \_\_\_ 08-08-08 BRIDGE END DRAIN W/ P.A.B.E. \_\_\_\_\_\_STD-1-6 \_\_\_ STD-1-6 \_\_\_ 4-28-97 EXISTING BRIDGE NO. 35-SR015-17.70 TO BE WIDENED. EXISTING BRIDGE END DRAIN W/ P.A.B.E. \_\_\_\_\_ STD-1-7 \_\_\_ STD-1-7 \_\_\_ 07-31-00 BRIDGE CONSISTS OF 5 SPAN CONTINUOUS TYPE IN I-BEAM WITH COMPOSITE CONCRETE DECK SLAB, AND CONCRETE PILE BRIDGE END DRAIN 4'-0" × 8'-7" W/ P.A.B.E. \_\_\_\_\_ STD-1-9 \_\_\_ 05-01-95 STD. PRECAST, PRESTRESSED BRIDGE DECK PANELS PLAN GENERAL DETAILS \_ \_ \_ \_ 4-08-05 DENOTES: END OF BRIDGE DRAIN (4'-0" X 8'-7") REQ'D. STD. PRECAST, PRESTRESSED BRIDGE DECK PANELS SEE STD. DWG. NO. STD-1-6, 7 \$ 9. DESIGN CRITERIA \_\_\_\_\_ 4-08-05 DENOTES: BRIDGE DECK GRATE DRAIN REQUIRED. STD. PRECAST, PRESTRESSED BRIDGE DECK PANELS SEE STD. DWG. NO. STD-1-2 (TYPE 1). GENERAL DETAILS\_\_\_\_\_ 3-02-02 STD. PRECAST, PRESTRESSED BRIDGE DECK PANELS CONSTRUCTION DETAILS \_\_\_\_ 6-10-96 STD. PILE DETAILS \_\_\_\_\_ STD-5-1 \_\_\_ STD-5-1 \_\_\_ 10-25-93 STD. PILE DETAILS \_\_\_\_\_ STD-5-2 \_\_\_ 4-08-05 STANDARD SEISMIC DETAILS \_\_\_\_\_ STD-6-1 \_\_\_ STD-6-1 \_\_\_ 5-21-99 REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLAB \_\_\_\_\_\_STD-9-1 \_\_\_ STD-9-1 \_\_\_ 10-07-08 MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS \_\_\_\_\_STD-10-1 \_\_\_ 4-08-05 STANDARD DETAILS AND INT. DIAPH. DETAILS +0.100% FOR I- BEAMS \_\_\_\_\_\_10-15-08 BRIDGE NO. 8 2028 ADT = 12,541 25.200 m ROADWAY WITH STD-1-1SS PARAPET NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA(EG. FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/BRIDGE CONSTRUCTION, ETC) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW OR EXPECTED -LIMITS OF STRUCTURE DESIGN SPEED = 90 km/h GRADE SKETCH STATE OF TENNESSEE FLOW, UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE DEPARTMENT OF TRANSPORTATION PLANS FOR THE TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMPORARY DIVERSION CULVERTS, EC-STR-32 FOR SINGLE BARREL CULVERT CONSTRUCTION. LAYOUT OF BRIDGE HYDRAULIC DATA WIDENING OF DRAINAGE AREA = 3346.02 km<sup>2</sup>
DESIGN DISCHARGE (100 YR.) = 428.46 m<sup>3</sup>/s
TOTAL DESIGN DISCHARGE = 1915.64 m<sup>3</sup>/s STATE ROUTE 15 OVER HATCHIE RIVER WATER AREA PROVIDED BELOW EL. 107.02 = 569.70 m<sup>2</sup> STATION 15+426.879 100 YR. VELOCITY = 0.75 m/s BRIDGE I.D. NO. 35SR0150017 100 YR. BRIDGE BACKWATER = 0.06 m @ EL. 107.37 NOTE: ALL DIMENSIONS SHOWN IN METERS. ROADWAY OVERTOPPING EL. = 107.40 WITH THE EXCEPTION OF STATIONS AND LOG MILE 17.70 ELEVATIONS, UNLESS OTHERWISE NOTED. LAST HARDEMAN COUNTY LIST OF SPECIAL PROVISIONS PROV. NO. REV. DATE NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR 2010 DESIGNED BY LANCE FITTRO DATE 12-05 CONVERSION FROM METRIC UNITS. DRAWN BY M. MANNCHEN REGARDING BRIDGE DECK CRACK SEALING \_\_\_\_\_ 604CR \_\_\_\_ 03-01-06 CORRECT Edward P. Wasserman SUPERVISED BY KDM/MBC DATE \_\_\_\_\_7-06 CHECKED BY LANCE FITTRO \_\_ DATE \_\_\_\_6-07 U-28-157

LAY766R1M

TEMPORARY MEDIAN BARRIER = 552 L.F.

CLASS "B" RIP-RAP = 1,522 TONS

