REMOVAL OF IMPROVEMENTS

STATION	STATION	LOCATION	DESCRIPTION
1154+06.23	1157+91.23	S.B.L. O/S SHLDR.	428 S.Y. SHOULDER
1154+06.23	1157+91.23	S.B.L. I/S SHLDR.	257 S.Y. SHOULDER
1155+25.72	1157+75.72	N.B.L. I/S SHLDR.	167 S.Y. SHOULDER
1155+25.72	1157+75.72	N.B.L. O/S SHLDR.	278 S.Y. SHOULDER
1155+48.17	1158+06.31	S.B.L. I/S SHLDR.	258 L.F. GUARDRAIL; INCLUDES TRANSITION AND BR. ANCHOR SECTIONS
1155+67.63	1158+13.28	S.B.L. O/S SHLDR.	246 L.F. GUARDRAIL; INCLUDES TRANSITION AND BR. ANCHOR SECTIONS
1157+60.72	1158+02.69	N.B.L.	82 S.Y. PAVEMENT AND SHOULDER
1157+76.31	1158+18.28	S.B.L.	82 S.Y. PAVEMENT AND SHOULDER
1159+39.85	1159+81.81	N.B.L.	82 S.Y. PAVEMENT AND SHOULDER
1159+44.85	1161+90.49	N.B.L. O/S SHLDR.	246 L.F. GUARDRAIL; INCLUDES TRANSITION AND BR. ANCHOR SECTIONS
1159+47.85	1159+67.85	N.B.L. O/S SHLDR.	DRAIN BASIN
1159+51.81	1162+09.96	N.B.L. I/S SHLDR.	258 L.F. GUARDRAIL; INCLUDES TRANSITION AND BR. ANCHOR SECTIONS
1159+54.81	1159+74.81	N.B.L. I/S SHLDR.	DRAIN BASIN
1159+55.44	1159+97.40	S.B.L.	82 S.Y. PAVEMENT AND SHOULDER
1159+63.44	1159+83.44	S.B.L. I/S SHLDR.	DRAIN BASIN
1159+66.90	1163+51.90	N.B.L. O/S SHLDR.	428 S.Y. SHOULDER
1159+66.90	1163+51.90	N.B.L. I/S SHLDR.	257 S.Y. SHOULDER
1159+68.44	1159+83.44	MEDIAN	63 S.Y. PAVED DITCH
1159+70.40	1159+90.40	S.B.L. O/S SHLDR.	DRAIN BASIN
1159+82.41	1162+32.41	S.B.L. I/S SHLDR.	167 S.Y. SHOULDER
1159+82.41	1162+32.41	S.B.L. O/S SHLDR.	278 S.Y. SHOULDER
1 LUMP SUM			

SUBGRADING AND SHOULDERING

STATION	STATION	LOCATION	SUBGRADE COMPACTION (6 IN. DEPTH) (100 FT.)	SUBGRADING AND SHOULDERING CLASS 1 (100 FT.)	REMARKS
1157+60.72	1158+02.69	N.B.L.	0.4	0.4	
1157+76.31	1158+18.28	S.B.L.	0.4	0.4	
1159+39.85	1161+35.00	N.B.L.	2.0	2.0	INCL. GRADING DITCHES TO MEET DRAIN BASIN OUTLETS
1159+55.44	1161+35.00	S.B.L.	1.8	1.8	INCL. GRADING DITCHES TO MEET DRAIN BASIN OUTLETS
TOTALS			4.6	4.6	
PAY TOTALS			5	5	

CHANNEL CLEANOUT

LOCATION	ESTIMATED QUANTITY (CU. YD.)
FROM 100' WEST OF BRIDGE A27144 TO 100' EAST OF BRIDGE A27143	6780
1 LUMP SUM	

SHOULDER GRADING

STATION	STATION	LOCATION	LENGTH (FT.)	SHOULDER GRADING (100 FT.)
1154+06.23	1157+91.23	S.B.L. O/S SHLDR.	385.00	3.85
1154+06.23	1157+91.23	S.B.L. I/S SHLDR.	385.00	3.85
1155+25.72	1157+75.72	N.B.L. I/S SHLDR.	250.00	2.50
1155+25.72	1157+75.72	N.B.L. O/S SHLDR.	250.00	2.50
1159+66.90	1163+51.90	N.B.L. O/S SHLDR.	385.00	3.85
1159+66.90	1163+51.90	N.B.L. I/S SHLDR.	385.00	3.85
1159+82.41	1162+32.41	S.B.L. I/S SHLDR.	250.00	2.50
1159+82.41	1162+32.41	S.B.L. O/S SHLDR.	250.00	2.50
TOTALS				25.40
PAY TOTALS				25

2 REVISED

PAVEMENT AND BASE

STATION	STATION	LOCATION	LENGTH (FT.)	WIDTH (FT.)	TYPE 5 AGGR. FOR BASE (4 IN. THICK) (SQ. YD.)	OPTIONAL PAVEMENT (SQ. YD.)	CONCRETE APPROACH PAVEMENT (SQ. YD.)	REMARKS
1154+06.23	1157+91.23	S.B.L. O/S SHLDR.	385.00	10.00	427.8	427.78		SHOULDER REPLACEMENT
1154+06.23	1157+91.23	S.B.L. I/S SHLDR.	385.00	6.00	256.7	256.67		SHOULDER REPLACEMENT
1155+25.72	1157+75.72	N.B.L. I/S SHLDR.	250.00	6.00	166.7	166.67		SHOULDER REPLACEMENT
1155+25.72	1157+75.72	N.B.L. O/S SHLDR.	250.00	10.00	277.8	277.78		SHOULDER REPLACEMENT
1157+60.72	1157+79.20	N.B.L.	18.48	39.5	81.1		81.11	
1157+76.31	1157+94.80	S.B.L.	18.48	39.5	81.1		81.11	
1159+63.33	1159+81.81	N.B.L.	18.48	40.5	83.2		83.16	INCLUDES TYPE A CURB
1159+78.92	1159+97.40	S.B.L.	18.48	40.5	83.2		83.16	INCLUDES TYPE A CURB
1159+66.90	1163+51.90	N.B.L. O/S SHLDR.	385.00	10.00	427.8	427.78		SHOULDER REPLACEMENT
1159+66.90	1163+51.90	N.B.L. I/S SHLDR.	385.00	6.00	256.7	256.67		SHOULDER REPLACEMENT
1159+82.41	1162+32.41	S.B.L. I/S SHLDR.	250.00	6.00	166.7	166.67		SHOULDER REPLACEMENT
1159+82.41	1162+32.41	S.B.L. O/S SHLDR.	250.00	10.00	277.8	277.78		SHOULDER REPLACEMENT
TOTALS					2586.6	2257.80	328.54	
PAY TOTALS					2587	2257.8	328.5	

TYPE S CURB

STATION	STATION	LOCATION	LENGTH (FT.)	CONCRETE CURB (6" HEIGHT AND UNDER) TYPE S (LIN. FT.)	REMARKS
1159+81.81	1159+84.74	N.B.L. O/S SHLDR.	2.93	2.9	4" CURB HEIGHT
1159+81.81	1159+91.71	N.B.L. I/S SHLDR.	9.90	9.9	4" CURB HEIGHT
1159+97.40	1160+00.34	S.B.L. I/S SHLDR.	2.93	2.9	4" CURB HEIGHT
1159+97.40	1160+07.30	S.B.L. O/S SHLDR.	9.90	9.9	4" CURB HEIGHT
TOTAL				25.6	
PAY TOTAL				26	

SP125C RESURFACING

STATION	STATION	LOCATION	LENGTH (FT.)	ASPHALTIC CONCRETE MIXTURE PG76-22 (SP125C MIX)					TACK COAT		
				WIDTH (FT.)	THICKNESS (IN.)	VOLUME (CU. YD.)	FACTOR (T/CY)	(TONS)	AREA (SQ. YD.)	FACTOR (G/SY)	(GALS.)
1156+45.72	1157+60.72	N.B.L.	115.00	40.00	2.00	28.40	1.99	56.52	511.11	0.10	51.1
1156+61.31	1157+76.31	S.B.L.	115.00	40.00	2.00	28.40	1.99	56.52	511.11	0.10	51.1
1159+81.81	1160+96.81	N.B.L.	115.00	40.00	2.00	28.40	1.99	56.52	511.11	0.10	51.1
1159+97.40	1161+12.40	S.B.L.	115.00	40.00	2.00	28.40	1.99	56.52	511.11	0.10	51.1
TOTALS								226.08			204.4
PAY TOTALS								226.1			204

MODIFIED COLDMILLING

STATION	STATION	LOCATION	LENGTH (FT.)	WIDTH (FT.)	MODIFIED COLDMILLING (DEPTH TRANSITION) (SQ. YD.)	REMARKS
1156+45.72	1157+60.72	N.B.L.	115.00	40.00	511.1	2.00" TO 0.85"
1156+61.31	1157+76.31	S.B.L.	115.00	40.00	511.1	2.00" TO 0.85"
1159+81.81	1160+96.81	N.B.L.	115.00	40.00	511.1	0.85" TO 2.00"
1159+97.40	1161+12.40	S.B.L.	115.00	40.00	511.1	0.85" TO 2.00"
TOTALS					2044.4	
PAY TOTALS					2044	

DRAINAGE STRUCTURES

STATION	LOCATION	CLASS 3 EXCAVATION (CU. YD.)	DRAIN BASIN (EACH)	CONCRETE SLOPE PROTECTION (SQ. YD.)	CURVED VANE GRATE AND FRAME (4 FT. x 2 FT.) (EACH)	12 IN. PIPE GROUP C (LIN. FT.)	PRECAST CONCRETE DROP INLET (4 FT. x 2 FT.) (FT.)
1159+67.55	N.B.L. O/S SHLDR.	7.7	1	3.9	1	18.3	2.0
1159+74.52	N.B.L. I/S SHLDR.	7.4	1	3.9	1	18.3	2.0
1159+83.15	S.B.L. I/S SHLDR.	7.2	1	3.9	1	18.3	2.0
1159+90.11	S.B.L. O/S SHLDR.	8.9	1	3.9	1	18.3	2.0
TOTALS		31.2	4	15.6	4	73.2	8.0
PAY TOTALS		31	4	*	*	*	*

* THESE ITEMS INCLUDED IN COST OF DRAIN BASIN

EMBANKMENT PROTECTION

STATION	STATION	TYPE 2 ROCK BLANKET			PERMANENT EROSION CONTROL GEOTEXTILE (SQ. YD.)
		THICKNESS (FT.)	FURNISHING (CU. YD.)	PLACING (CU. YD.)	
1157+88.00	1158+60.00	2.00	558.1	558.1	947.7
1158+98.00	1159+70.00	2.00	525.5	525.5	897.9
TOTALS			1083.6	1083.6	1845.6
PAY TOTALS			1084	1084	1846

MOBILIZATION

1 LUMP SUM

SUMMARY OF QUANTITIES
SHEET 1 OF 3

STATE OF MISSOURI
JOYCE M. REYNOLDS
NUMBER PE-2002016722
PROFESSIONAL ENGINEER
11/26/2024 5:53:43 AM
JOYCE M. REYNOLDS - CIVIL
MO-PE-2002016722

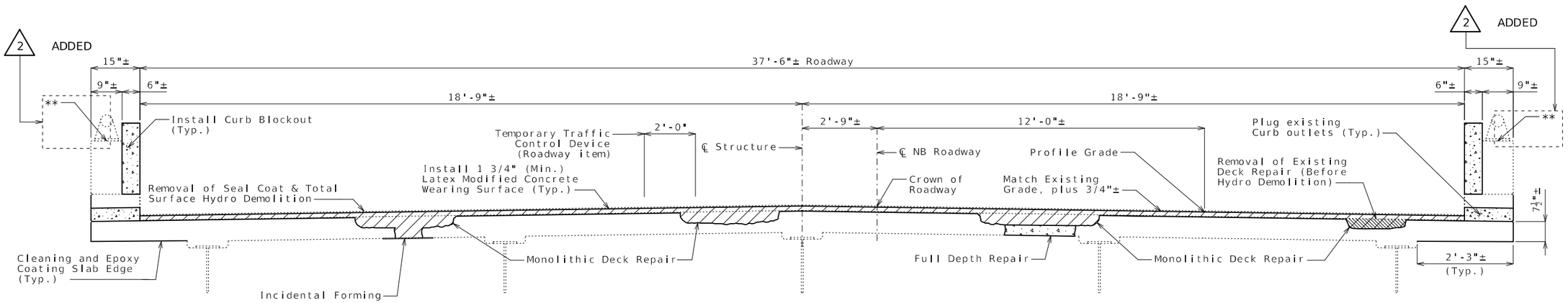
DATE PREPARED: 11/25/2024
ROUTE: I-29 | STATE: MO
DISTRICT: NW | SHEET NO.: 3
COUNTY: ATCHISON
JOB NO.: J1I3280
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SEC/SUR 15 TWP 59N RGE 36W

U.I.P. AND REHABILITATE EXISTING (46'-69'-69'-55') CONTINUOUS COMPOSITE WIDE FLANGE BEAM SPANS (SKEW: 20° R.A.)



TYPICAL SECTION THRU EXISTING DECK

Note: For details of repairs to deck concrete, see Sheet No. 2.

Estimated Quantities

	Item		Total
	Temporary Shoring	lump sum	1
	Total Surface Hydro Demolition	sq. yard	1013
	Removal of Seal Coat or Polymer Wearing Surface	sq. foot	9116
	Removal of Existing Deck Repair	sq. foot	100
	Bridge Approach Slab (Major)	sq. yard	175
*	Supplementary Wearing Surface Material	cu. yard	12
	Latex Modified Concrete Wearing Surface	sq. yard	1013
	Diamond Grinding	sq. yard	1013
	Curb Blockout	linear foot	481
	Full Depth Repair	sq. foot	250
	Plugging Existing Curb Outlets	each	19
	Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1
	Cleaning and Coating Existing Bearings	each	10
	Cored Slab Drain	each	26
	Vertical Drain at End Bents	each	2

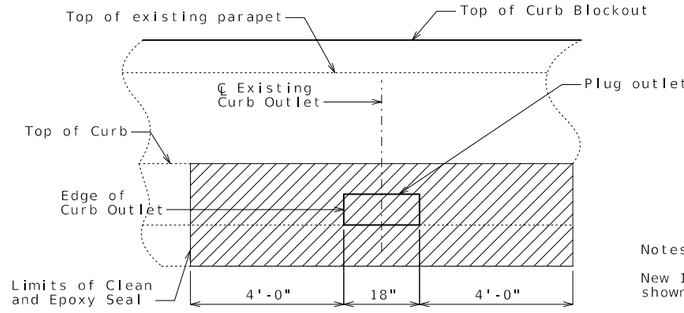
2 ADDED

2 ADDED

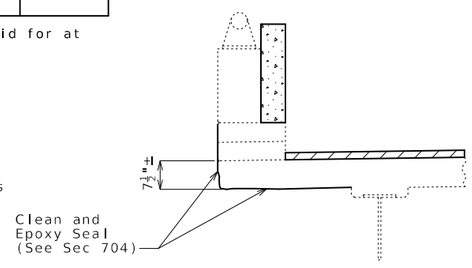
2 ADDED

2 ADDED

* Supplementary wearing surface material for monolithic deck repair will be paid for at the fixed unit price in accordance with Sec 109.



PART ELEVATION SHOWING CLEAN AND EPOXY SEAL AND PLUGGING OF CURB OUTLETS



TYPICAL SECTION THRU EDGE OF SLAB SHOWING CLEAN AND EPOXY SEAL

Notes:

New 1 3/4" Latex Modified Concrete Overlay not shown for clarity.

Cost of labor and materials required to plug existing curb outlets will be considered completely covered by the contract unit price for Plugging Existing Curb Outlets, per each.

Estimated material required to fill all curb outlets is 0.4 cubic yards.

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 5

Design Loading:

HS20-44 (1961 & New Construction)

Design Unit Stresses:

Class B-1 Concrete (Curb Blockout) f'c = 4,000 psi
Class B-2 Concrete (Full Depth Repair) f'c = 4,000 psi

Contractor can use either Class B-1 or Class B-2 concrete or Wearing Surface material for Slab Drain plugs, same material shall be used throughout.

Concrete Protective Coatings:

Protective Coating for Concrete Bents and Piers (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.

Miscellaneous:

Removal of Existing Bridge Approach Slab or appraoch pavement is considered a Roadway Item.

Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (Roadway Item).

All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material.

In order to maintain grade and a minimum thickness of wearing surface as shown on plans it may be necessary to use additional quantities of wearing surface at various locations throughout the structure. The cost of furnishing and installing the wearing surface will be considered completely covered in the contract unit price, including all additional labor, materials or equipment for variations in thickness of wearing surface.

** Asbestos (Friablity Category 11 NF) has been detected in the insulation compound between the top of the concrete parapet and the base of the handrail posts. Removal of the handrail and posts, or leave in place is the Contractor's option. Should the Contractor elect to remove the handrail and posts, the Contractor will be required to use an Abatement Contractor during the removal. No direct payment will be made for removal of the handrail and posts and for asbestos abatement should the Contractor choose to perform this work. The described work will be considered completely covered by the contract unit price for other items in the contract.

Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans for traffic control.

2 REVISED

REPAIRS TO BRIDGE: ROUTE I-29 NB OVER MILL CREEK & CR 422

ROUTE I-29 FROM ROUTE CC TO ROUTE 59
ABOUT 3.3 MILES SOUTH OF ROUTE 59
BEGINNING STATION 217+68.05± (Match Existing)

Detailed Mar. 2023
Checked Nov. 2023

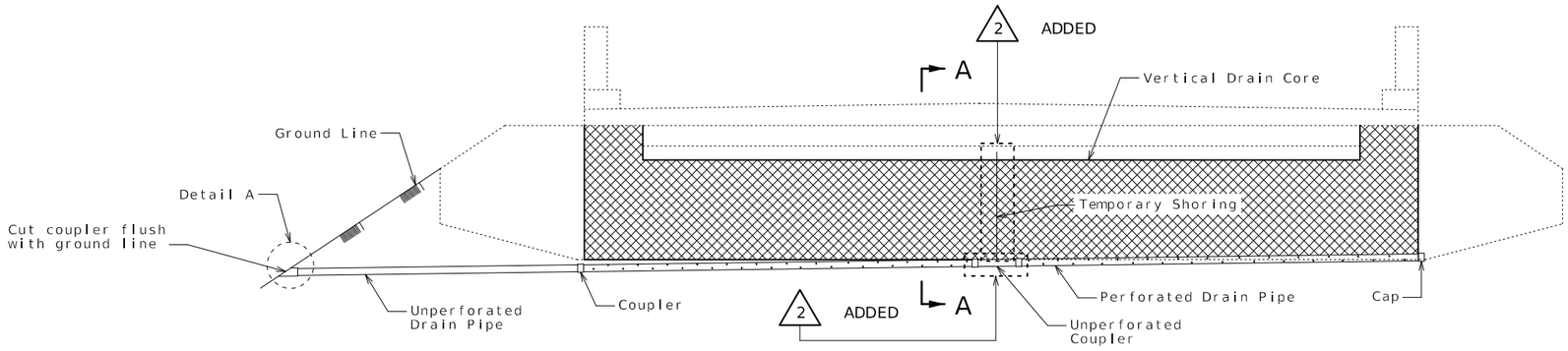
Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
TIMOTHY D. LEAF
NUMBER PE-2012000778
PROFESSIONAL ENGINEER
11/26/2024 7:15:03 AM
TIMOTHY D LEAF - CIVIL
MO-PE-2012000778

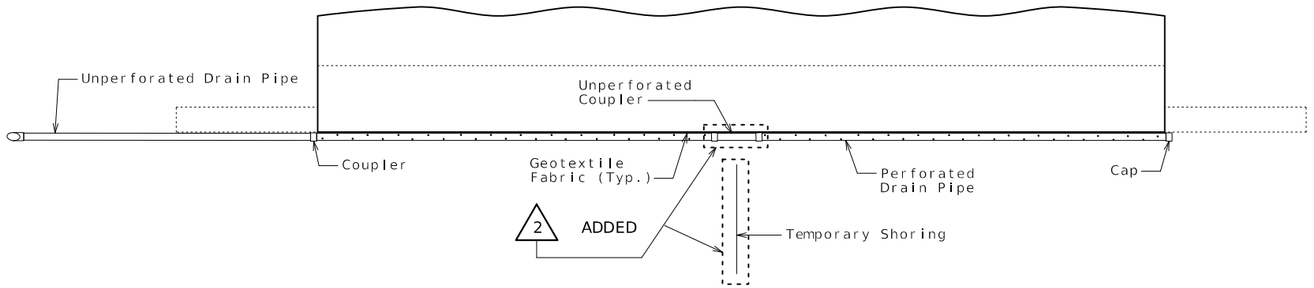
DATE PREPARED 11/25/2024
ROUTE I-29 | STATE MO
DISTRICT BR | SHEET NO. 1
COUNTY ANDREW
JOB NO. J1I3262
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A12902

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

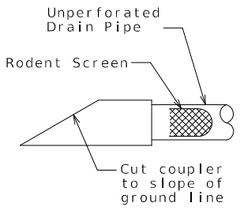


ELEVATION OF END BENT

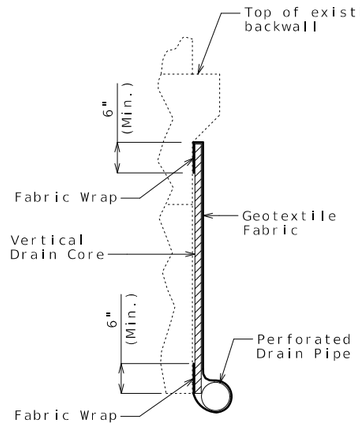


PLAN OF END BENT

(Approach Notch not shown for clarity)



DETAIL A



PART SECTION A-A

General Notes:

All drain pipe shall be sloped 1 to 2 percent.

Drain pipe may be either 6-inch diameter corrugated metallic-coated steel pipe underdrain, 4-inch diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4-inch diameter corrugated polyethylene (PE) drain pipe.

Drain pipe shall be placed at fill face of end bent and inside face of wings. The pipe shall slope to lowest grade of ground line, also missing the lower beam of end bent by a minimum of 1 1/2 inches.

Perforated pipe shall be placed at fill face side and inside face of wings at the bottom of end bent and plain pipe shall be used where the vertical drain ends to the exit at ground line.

VERTICAL DRAIN AT END BENTS

(Squared end bent shown, skewed end bent similar)

2 REVISED

Detailed Mar. 2023
Checked Nov. 2023

Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
TIMOTHY D. LEAF
NUMBER PE-2012000778
PROFESSIONAL ENGINEER
11/26/2024 7:15:18 AM
TIMOTHY D. LEAF - CIVIL
MO-PE-2012000778

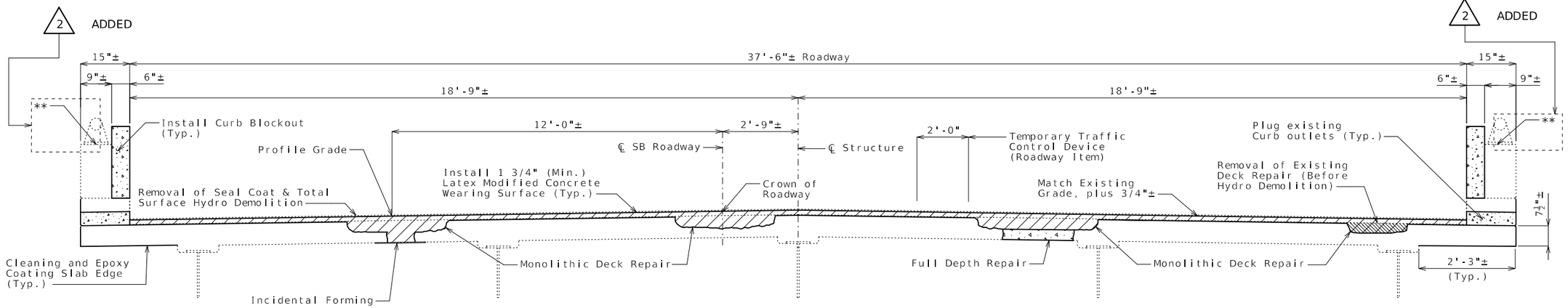
DATE PREPARED: 11/25/2024
ROUTE: I-29 | STATE: MO
DISTRICT: BR | SHEET NO.: 4
COUNTY: ANDREW
JOB NO.: J1I3262
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A12902

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SEC/SUR 15 TWP 59N RGE 36W

U.I.P. AND REHABILITATE EXISTING (46'-69'-69'-55') CONTINUOUS COMPOSITE WIDE FLANGE BEAM SPANS (SKEW: 20° R.A.)



TYPICAL SECTION THRU EXISTING DECK

Note: For details of repairs to deck concrete, see Sheet No. 2.

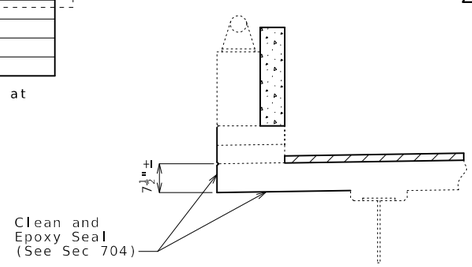
2 ADDED

Estimated Quantities

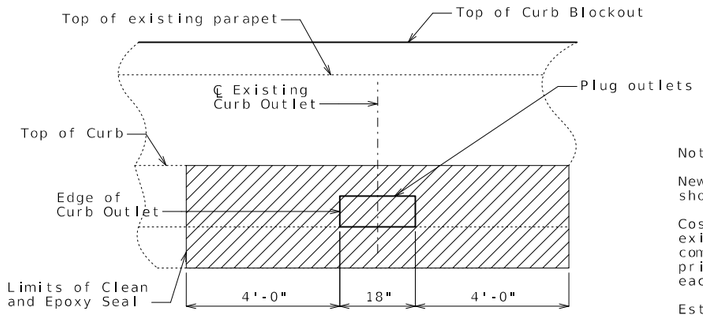
	Item		Total
	Temporary Shoring	lump sum	1
	Total Surface Hydro Demolition	sq. yard	1013
	Removal of Seal Coat or Polymer Wearing Surface	sq. foot	9116
	Removal of Existing Deck Repair	sq. foot	100
	Bridge Approach Slab (Major)	sq. yard	175
*	Supplementary Wearing Surface Material	cu. yard	12
	Latex Modified Concrete Wearing Surface	sq. yard	1013
	Diamond Grinding	sq. yard	1013
	Curb Blockout	linear foot	481
	Full Depth Repair	sq. foot	250
	Plugging Existing Curb Outlets	each	19
	Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1
	Cleaning and Coating Existing Bearings	each	10
	Cored Slab Drain	each	26
2 ADDED	Vertical Drain at End Bents	each	2

* Supplementary wearing surface material for monolithic deck repair will be paid for at the fixed unit price in accordance with Sec 109.

2 ADDED



TYPICAL SECTION THRU EDGE OF SLAB SHOWING CLEAN AND EPOXY SEAL



PART ELEVATION SHOWING CLEAN AND EPOXY SEAL AND PLUGGING OF CURB OUTLETS

Notes:

New 1 3/4" Latex Modified Concrete Overlay not shown for clarity.

Cost of labor and materials required to plug existing curb outlets will be considered completely covered by the contract unit price for Plugging Existing Curb Outlets, per each.

Estimated material required to fill all curb outlets is 0.4 cubic yards.

General Notes:

Design Specifications:

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Bridge Deck Rating = 5

Design Loading:

HS20-44 (1961 & New Construction)

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Concrete Protective Coatings:

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2 ADDED

Miscellaneous:

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Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (Roadway Item).

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Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

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In order to maintain grade and a minimum thickness of wearing surface as shown on plans it may be necessary to use additional quantities of wearing surface at various locations throughout the structure. The cost of furnishing and installing the wearing surface will be considered completely covered in the contract unit price, including all additional labor, materials or equipment for variations in thickness of wearing surface.

** Asbestos (Friablity Category 11 NF) has been detected in the insulation compound between the top of the concrete parapet and the base of the handrail posts. Removal of the handrail and posts, or leave in place is the Contractor's option. Should the Contractor elect to remove the handrail and posts, the Contractor will be required to use an Abatement Contractor during the removal. No direct payment will be made for removal of the handrail and posts and for asbestos abatement should the Contractor choose to perform this work. The described work will be considered completely covered by the contract unit price for other items in the contract.

2 ADDED

Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans for traffic control.

2 REVISED

REPAIRS TO BRIDGE: ROUTE I-29 SB OVER MILL CREEK & CR 422

ROUTE I-29 FROM ROUTE 59 TO ROUTE CC
ABOUT 3.3 MILES SOUTH OF ROUTE 59
BEGINNING STATION 217+98.62± (Match Existing)

Detailed Mar. 2023
Checked Nov. 2023

Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
TIMOTHY D. LEAF
NUMBER PE-2012000778
PROFESSIONAL ENGINEER
11/26/2024 7:15:00 AM
TIMOTHY D. LEAF - CIVIL
MO-PE-2012000778

DATE PREPARED
11/25/2024

ROUTE	STATE
I-29	MO
DISTRICT	SHEET NO.
BR	1

COUNTY
ANDREW

JOB NO.
J1I3262

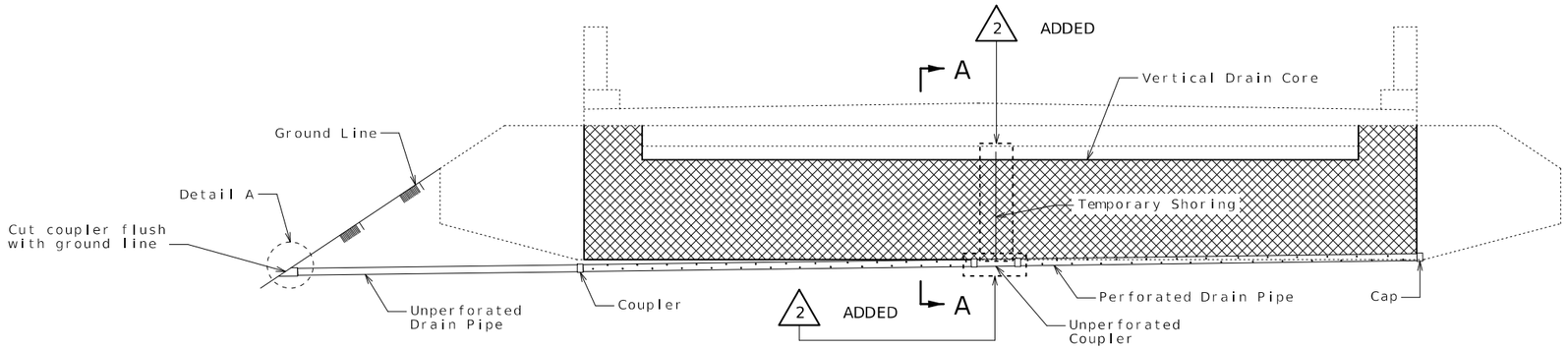
CONTRACT ID.

PROJECT NO.

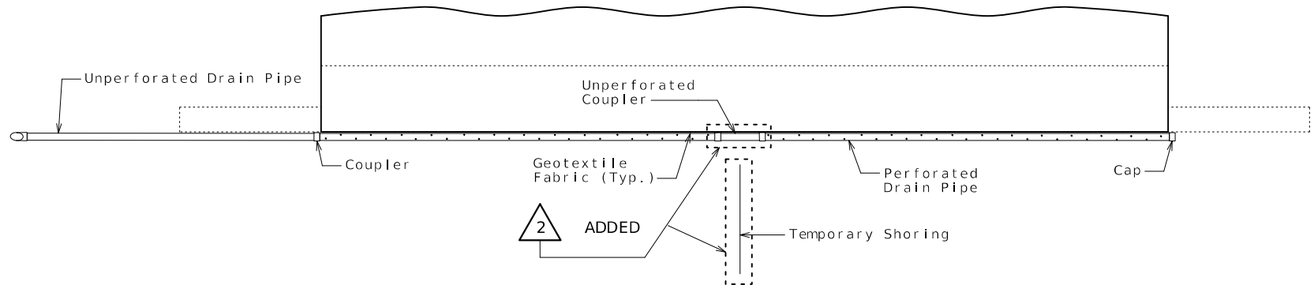
BRIDGE NO.
A12903

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

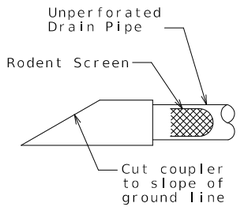


ELEVATION OF END BENT

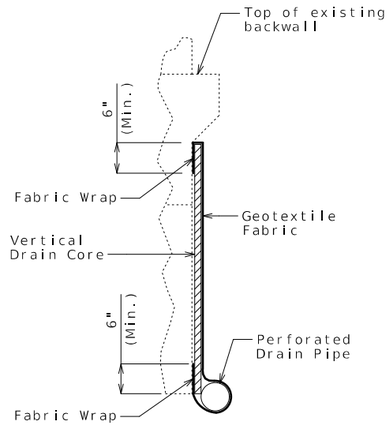


PLAN OF END BENT

(Approach Notch not shown for clarity)



DETAIL A



PART SECTION A-A

General Notes:

All drain pipe shall be sloped 1 to 2 percent.

Drain pipe may be either 6-inch diameter corrugated metallic-coated steel pipe underdrain, 4-inch diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4-inch diameter corrugated polyethylene (PE) drain pipe.

Drain pipe shall be placed at fill face of end bent and inside face of wings. The pipe shall slope to lowest grade of ground line, also missing the lower beam of end bent by a minimum of 1 1/2 inches.

Perforated pipe shall be placed at fill face side and inside face of wings at the bottom of end bent and plain pipe shall be used where the vertical drain ends to the exit at ground line.

VERTICAL DRAIN AT END BENTS

(Squared end bent shown, skewed end bent similar)

Detailed Mar. 2023
Checked Nov. 2023

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2 REVISED

STATE OF MISSOURI
TIMOTHY D. LEAF
NUMBER PE-2012000778
PROFESSIONAL ENGINEER
11/25/2024 7:15:43 AM
TIMOTHY D. LEAF - CIVIL
MO-PE-2012000778

DATE PREPARED 11/25/2024

ROUTE	STATE
I-29	MO
DISTRICT	SHEET NO.
BR	4

COUNTY ANDREW

JOB NO. J1I3262

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A12903

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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