

May 02, 2024 4:06:30PM

COUNTY: JACKSON DISTRICT: KC CLASS: STATBR FED-ID: 214 BRIDGE: A0244

GENERAL STRUCTURE INFORMATION ***BRIDGE INSPECTION INFORMATION*** **ROUTE: IS70E # SPANS:** 3 PLACE CODE: 38000 KANSAS CITY CITY **DATE:** 09/12/2023 **RESPONSIBILITY: DISTRICT** LANES ON: 3 FEATURE: CST E 12TH ST LENGTH: 156 FT 0 IN FREQUENCY: 24 **CALCULATED INTERVAL**: 24 LANES UNDER: 2** STATUS: A-OPEN MAXIMUM SPAN: 63 FT 0 IN **TEAM LEADER:** TIMOTHY HAZLETT **ELEMENT:** YES **LOG MILE: 2.345 COMPASS DIRECTION: NORTH to SOUTH** APPROACH ROADWAY: 60 FT 0 IN **INSPECTOR 2: INSPECTOR 4: DETOUR:** 1.00 MILES **DIRECTION OF TRAFFIC: 1-WAY TRAF CURB TO CURB:** 62 FT 2 IN **INSPECTOR 3:** NHS: YES **FUNCTIONAL CLASS: UR-INTERSTATE OUT TO OUT:** 64 FT 11 IN ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. **BUILT:** 1958 **NBI OWNER: MODOT AADT:** 55722 **GENERAL INSPECTION COMMENTS REHAB:** 2006 **NBI MAINTAINED: MODOT AADT YEAR: 2023** MAINTENANCE DISTRICT: KC LOCATION: S 5 T 49 R 33 W **AADT TRUCK:** 18.4% **LATITUDE:** 39 5 58.47 (DMS) **MAINTENANCE COUNTY: JACKSON FUTURE AADT: 75225 LONGITUDE:** 94 34 21.88 (DMS) SUB AREA: 7C01 **FUTURE AADT YEAR: 2043** ***INDEPTH INSPECTION INFORMATION*** ***FRACTURE CRITICAL INSPECTION INFORMATION*** DATE: RESPONSIBILITY: **CATEGORY: CATEGORY:** DATE: **RESPONSIBILITY: FREQUENCY: CALCULATED INTERVAL**: NBI**: **FREQUENCY: CALCULATED INTERVAL**: NBI**: **TEAM LEADER: INSPECTOR 3: METHOD: TEAM LEADER: INSPECTOR 3: METHOD: INSPECTOR 2: INSPECTOR 4: INSPECTOR 2: INSPECTOR 4:** ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. FRACTURE CRITICAL INSPECTION COMMENTS **INDEPTH INSPECTION COMMENTS** ***SPECIAL INSPECTION INFORMATION*** ***UNDERWATER INSPECTION INFORMATION*** **CATEGORY: CATEGORY:** DATE: **DATE: RESPONSIBILITY:** RESPONSIBILITY: FREOUENCY: **CALCULATED INTERVAL**: NBI**: FREOUENCY: CALCULATED INTERVAL**: **NBI:** TEAM LEADER: **INSPECTOR 3: METHOD: TEAM LEADER: INSPECTOR 3: METHOD: INSPECTOR 2: INSPECTOR 4: INSPECTOR 2: INSPECTOR 4:** * When calculated interval exceeds the frequency, a justification comment per BIRM is required. ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. SPECIAL INSPECTION COMMENTS **UNDERWATER INSPECTION COMMENTS** OTHER SPECIAL INSPECTIONS OTHER UNDERWATER INSPECTIONS **DATE FREQUENCY CATEGORY** NBI CALCULATED INTERVAL RESPONSIBILITY **METHOD** DATE **FREQUENCY CATEGORY** NBI CALCULATED INTERVAL RESPONSIBILITY **METHOD**

MoDOT

Missouri Department of Transportation State Bridge Inspection Report

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STRUCTURE POSTING APPROVED CATEGORY: S-1 NO POSTING REQUIRED **Ton 1: Ton 2: Ton 3: COMMENTS:** FIELD CATEGORY: S-1 NO POSTING REQUIRED **PROBLEM:** PROBLEM DIRECTION: **Ton 1: Ton 2: Ton 3: COMMENTS:** ***GENERAL COMMENTS/MAJOR RATED ITEMS*** GENERAL COMMENTS: (BOWDEJ1, 10/07/2008)--(44'-63'-44') CONT CONC BOX GDR SPANS [ITEM 58] DECK: 5-FAIR CONDITION COMMENTS: (OTISL1, 09/21/2015)--RANDOM DECK CRACKS (OTISL1, 09/28/2017)--SUPER CONTROLS RATINGS **RATING:** 09/22/2021 [ITEM 59] SUPER: 5-FAIR CONDITION COMMENTS: (OTISL1, 09/28/2017)--MODERATE EDGES DELAMINATED (OTISL1, 10/01/2019)--SPALLS WITH EXPOSED REBAR **RATING:** 09/22/2021 [ITEM 60] SUB: 5-FAIR CONDITION COMMENTS: (OTISL1, 10/01/2019)--SPALLS/DETERIORATION OF BEARING SEATS @ EB1 **RATING:** 10/01/2019 [ITEM 61] BANK/CHANNEL: N-NOT APPLIC NO WATRWAY **COMMENTS: RATING:** 05/18/2001 [ITEM 113] SCOUR: N-NOT APPLIC NOT WATERW **COMMENTS: RATING:** 05/18/2001 **EVALUATION TYPE:** [ITEM 71] WATERWAY ADEQUACY: NOT APPLICABLE **COMMENTS: RATING:** 05/18/2001 [ITEM 72] APPRRDWY ALIGNMENT: 8-VERYGOOD **COMMENTS: RATING:** 05/18/2001 ***RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS*** [ITEM 36A] BRIDGE RAILING RATING: MEETS CURRENT STANDARDS-1 **RATING:** 02/04/2004 **COMMENTS: DIRECTION MATERIAL CONSTRUCTION COMMENTS** SAFETY BARRIER CURB REINFORCED CONCRETE LEFT LOCATION 1 **SEVERITY CONDITION** LOCATION 2 **COMMENT THROUGHOUT** VERTICAL CRACKS FEW REINFORCED CONCRETE **PARAPET** RIGHT **CONDITION** LOCATION 1 **LOCATION 2 SEVERITY COMMENT** VERTICAL CRACKS **THROUGHOUT FEW** [ITEM 36B] TRANSITION RAILING RATING: MEETS CURRENT STANDARDS-1 **RATING:** 05/18/2001 **COMMENTS:** MATERIAL **CONSTRUCTION DIRECTION COMMENTS** GALVANIZED STEEL THRIE BEAM TO W-BEAM **NORTHWEST** [ITEM 36C] APPROACH RAILING RATING: MEETS CURRENT STANDARDS-1 **RATING:** 05/18/2001 **COMMENTS:**

MODOT

May 02, 2024 **Missouri Department of Transportation** 4:06:30PM **State Bridge Inspection Report**

BRIDGE: A0244

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COUNTY: JACKSON DISTRICT: KC CLASS: STATBR CONSTRUCTION DIRECTION **COMMENTS** MATERIAL

GALVANIZED STEEL W-BEAM **NORTHWEST**

[ITEM 36D] RAIL END TREATMENT RATING: MEETS CURRENT STANDARDS-1 **RATING:** 05/18/2001 **COMMENTS:**

MATERIAL **CONSTRUCTION DIRECTION COMMENTS GALVANIZED STEEL OTHER ALL** (REHAGM, 11/29/2004)--CONTINOUS > 100'

APPROACH PAVEMENT: *Overall condition assigned for each approach pavemenet component is shown below.

CONSTRUCTION DIRECTION CONDITION* MATERIAL

ASPHALT/CONCRETE BITUMINOUS MAT/SLAB BOTH (OTISL1, 09/22/2021)--FAILING @ SOUTH JOINT **FAIR**

DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS

DECK PROTECTIVE COMPONENTS:

COMPONENT OVERALL CONDITION SERIES TYPE-# **MATERIAL CONSTRUCTION THICKNESS** YEAR APPLIED **MANUFACTURE** 2.25 IN **FAIR**

MAIN SERIES-1 WEARING SURFACE PLAIN CONCRETE LOW SLUMP

COMMENT:

CONDITION LOCATION 1 LOCATION 2 **SEVERITY COMMENT**

MAP CRACKS **THROUGHOUT FEW**

ENDS SOUTH SPALLS MODERATE

NOTAPPLICABLE **NONE DECK PROTECTION**

COMMENT:

MEMBRANE NOTAPPLICABLE **NONE**

COMMENT:

NONE SECONDARY DECK PROTECTION *NOTAPPLICABLE*

COMMENT:

DRAINAGE COMPONENTS:

COMPONENT MATERIAL CONSTRUCTION DIRECTION COMMENTS

EXPANSION DEVICE COMPONENTS:

SUB UNIT-# **COMPONENT MATERIAL CONSTRUCTION MANUFACTURE OVERALL CONDITION** SUB LABEL **GAP** YEAR APPLIED ABUTMENT-1 CLOSED EXPANSION JOINT ELASTOMERIC STRIP SEAL XJS JOINT **VERY POOR**

COMMENT: (HANSEC1, 02/08/2006)--XLS JOINT INSTALLED 2005

(OTISL1, 09/21/2015)--SEAL FAILURE

CONDITION LOCATION 2 **SEVERITY** LOCATION 1 **COMMENT**

SEVERE (RACKEM, 10/04/2011)--DEBONDING. **DETERIORATION THROUGHOUT**

ABUTMENT-4 CLOSED EXPANSION JOINT **ELASTOMERIC** STRIP SEAL **VERY POOR**

COMMENT: (OTISL1, 09/22/2021)--FAILED

BANK/SLOPE PROTECTION COMPONENTS:

COMPONENT MATERIAL CONSTRUCTION DIRECTION COMMENTS BANK PROTECTION PLAIN CONCRETE *PAVEDSLOPE* BOTH(OTISL1, 09/21/2015)--FAULTING & EROSION UNDERNEATH

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			DECk	K COMPONE	NTS	
CDAN TWOE !!	COMBONENCE	M 1777 DT 11	CONCERNICE	OM 60	MMENTS	
SPAN TYPE-#	<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTIO</u>		<u>MMENTS</u>	
MAIN SPANS-1	DECK	REINFORCED CONCRETE				
<u>CONDITIO</u>	<u> </u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
LONGITUDINAL	CRACKS	THROUGHOUT		FEW		
TRANSVERSE (CRACKS	OVERHANGS		FEW		
TRANSVERSE (CRACKS	THROUGHOUT		FEW		
MAIN SPANS-2	DECK	REINFORCED CONCRETE				
<u>CONDITIO</u>	<u> </u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
LONGITUDINAL	CRACKS	THROUGHOUT		FEW		
TRANSVERSE (CRACKS	OVERHANGS		FEW		
TRANSVERSE (CRACKS	THROUGHOUT		FEW		
<i>MAIN SPANS-3</i>	DECK	REINFORCED CONCRETE				
<u>CONDITIO</u>	<u> </u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
LONGITUDINAL	CRACKS	THROUGHOUT		FEW		
TRANSVERSE (CRACKS	OVERHANGS		FEW		
TRANSVERSE (THROUGHOUT		FEW		
			SUPERSTRU	CTURE COM	IPONENTS	
SERIES TYPE-#	SPAN TYPE	<u>MATERIAL</u>	<u>CONSTRUCTIO</u>	<u> </u>	<u>LABEL</u>	COMMENTS
MAIN SERIES-1	CONTINUOUS SPAN	N REINFORCED CONCRETE	BOX GIR-CIP MUL	CELL		
OD 137						
SPAN	COMPOSITE INDI	<i>CATOR LENGTH WEATHER</i>	ING STEEL COMMENTS			
<u>SPAN</u> MAIN SPANS-1	COMPOSITE INDI		ING STEEL COMMENTS			
MAIN SPANS-1	NON-COMPOS	SITE 44 FT 0 IN N	IO	SEVERITY	MEASUREMENT	COMMENT
MAIN SPANS-1 <u>CONDITIO</u>	NON-COMPOS	SITE 44 FT 0 IN N LOCATION 1		<u>SEVERITY</u> MEDIUM	<u>MEASUREMENT</u>	<u>COMMENT</u>
MAIN SPANS-1 CONDITIO DELAMINAT	NON-COMPOS <u>ON</u> TION	SITE 44 FT 0 IN N LOCATION 1 AT BEARING	IO	MEDIUM	<u>MEASUREMENT</u>	<u>COMMENT</u>
MAIN SPANS-1 <u>CONDITIO</u> DELAMINAT DELAMINAT	NON-COMPOS DN TION TION	SITE 44 FT 0 IN N LOCATION 1 AT BEARING EDGE	IO	MEDIUM SMALL	<u>MEASUREMENT</u>	
MAIN SPANS-1 <u>CONDITIC</u> DELAMINAT DELAMINAT DIAGONAL CR	NON-COMPOS <u>DN</u> TION TION RACKS E	SITE 44 FT 0 IN N LOCATION 1 AT BEARING EDGE EXTERIOR GIRDERS	IO	MEDIUM SMALL OPEN	<u>MEASUREMENT</u>	COMMENT (HANSEC1, 02/13/2008)OPEN D-CRACK E SIDE OF BOX AT ABUT
MAIN SPANS-1 <u>CONDITIO</u> DELAMINAT DELAMINAT DIAGONAL CR EFFLORESCE	NON-COMPOS <u>DN</u> FION FION RACKS E ENCE	SITE 44 FT 0 IN N LOCATION 1 AT BEARING EDGE EXTERIOR GIRDERS BOTTOM	IO	MEDIUM SMALL OPEN LIGHT	<u>MEASUREMENT</u>	
MAIN SPANS-1 CONDITIO DELAMINAT DELAMINAT DIAGONAL CR EFFLORESCE REBAR EXPO	NON-COMPOS <u>DN</u> TION TION RACKS ENCE DSED	SITE 44 FT 0 IN N LOCATION 1 AT BEARING EDGE EXTERIOR GIRDERS BOTTOM EDGE	IO	MEDIUM SMALL OPEN LIGHT MODERATE	<u>MEASUREMENT</u>	
MAIN SPANS-1 CONDITIO DELAMINAT DELAMINAT DIAGONAL CR EFFLORESCE REBAR EXPO	NON-COMPOS ON TION RACKS ENCE OSED	EITE 44 FT 0 IN N LOCATION 1 AT BEARING EDGE EXTERIOR GIRDERS BOTTOM EDGE EDGE EDGE	IO	MEDIUM SMALL OPEN LIGHT MODERATE HEAVY	<u>MEASUREMENT</u>	
MAIN SPANS-1 CONDITIO DELAMINAT DELAMINAT DIAGONAL CR EFFLORESCE REBAR EXPO	NON-COMPOS ON TION RACKS ENCE OSED	SITE 44 FT 0 IN N LOCATION 1 AT BEARING EDGE EXTERIOR GIRDERS BOTTOM EDGE	IO	MEDIUM SMALL OPEN LIGHT MODERATE	<u>MEASUREMENT</u>	
MAIN SPANS-1 CONDITIO DELAMINAT DELAMINAT DIAGONAL CR EFFLORESCR REBAR EXPO	NON-COMPOS ON TION RACKS ENCE OSED	EITE 44 FT 0 IN N LOCATION 1 AT BEARING EDGE EXTERIOR GIRDERS BOTTOM EDGE EDGE EDGE	IO	MEDIUM SMALL OPEN LIGHT MODERATE HEAVY	<u>MEASUREMENT</u>	
MAIN SPANS-1 <u>CONDITIO</u> DELAMINAT DELAMINAT DIAGONAL CR EFFLORESCR REBAR EXPO	NON-COMPOS ON TION RACKS ENCE OSED	SITE 44 FT 0 IN N LOCATION 1 AT BEARING EDGE EXTERIOR GIRDERS BOTTOM EDGE EDGE EDGE BOTTOM	IO	MEDIUM SMALL OPEN LIGHT MODERATE HEAVY	<u>MEASUREMENT</u>	
MAIN SPANS-1 CONDITIO DELAMINAT DELAMINAT DIAGONAL CR EFFLORESCE REBAR EXPO SPALLS TRANSVERSE O	NON-COMPOS DN TION TION RACKS E ENCE DSED CRACKS NON-COMPOS	SITE 44 FT 0 IN N LOCATION 1 AT BEARING EDGE EXTERIOR GIRDERS BOTTOM EDGE EDGE EDGE BOTTOM	LOCATION 2	MEDIUM SMALL OPEN LIGHT MODERATE HEAVY	MEASUREMENT MEASUREMENT	
MAIN SPANS-1 CONDITIO DELAMINAT DELAMINAT DIAGONAL CR EFFLORESCE REBAR EXPO SPALLS TRANSVERSE CONDITIO	NON-COMPOS ON FION RACKS ENCE DSED CRACKS NON-COMPOS ON	ATTE 44 FT 0 IN N LOCATION 1 AT BEARING EDGE EXTERIOR GIRDERS BOTTOM EDGE EDGE BOTTOM SITE 63 FT 0 IN N LOCATION 1	IO LOCATION 2	MEDIUM SMALL OPEN LIGHT MODERATE HEAVY RANDOM		(HANSEC1, 02/13/2008)OPEN D-CRACK E SIDE OF BOX AT ABUT
MAIN SPANS-1 CONDITIO DELAMINAT DELAMINAT DIAGONAL CR EFFLORESCE REBAR EXPO SPALLS TRANSVERSE CONDITIO SATURATIO	NON-COMPOS ON FION FION RACKS ENCE DSED CRACKS NON-COMPOS ON	ETTE 44 FT 0 IN LOCATION 1 AT BEARING EDGE EXTERIOR GIRDERS BOTTOM EDGE EDGE BOTTOM SITE 63 FT 0 IN LOCATION 1 THROUGHOUT	IO LOCATION 2	MEDIUM SMALL OPEN LIGHT MODERATE HEAVY RANDOM		(HANSEC1, 02/13/2008)OPEN D-CRACK E SIDE OF BOX AT ABUT
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MAIN SPANS-1 CONDITIO DELAMINAT DELAMINAT DIAGONAL CR EFFLORESCE REBAR EXPO SPALLS TRANSVERSE CO MAIN SPANS-2 CONDITIO SATURATIO TRANSVERSE CO	NON-COMPOS NON-COMPOS NON-COMPOS ENCE DSED CRACKS NON-COMPOS NON-COMPOS ON CRACKS	ETTE 44 FT 0 IN LOCATION 1 AT BEARING EDGE EXTERIOR GIRDERS BOTTOM EDGE EDGE BOTTOM SITE 63 FT 0 IN LOCATION 1 THROUGHOUT THROUGHOUT	IO LOCATION 2 IO LOCATION 2	MEDIUM SMALL OPEN LIGHT MODERATE HEAVY RANDOM		(HANSEC1, 02/13/2008)OPEN D-CRACK E SIDE OF BOX AT ABUT
MAIN SPANS-1 CONDITIO DELAMINAT DIAGONAL CR EFFLORESCE REBAR EXPO SPALLS TRANSVERSE CO MAIN SPANS-2 CONDITIO SATURATIO TRANSVERSE CO MAIN SPANS-3	NON-COMPOS NON-COMPOS NON-COMPOS NON-COMPOS NON-COMPOS NON-COMPOS NON-COMPOS	ATTE 44 FT 0 IN LOCATION 1 AT BEARING EDGE EXTERIOR GIRDERS BOTTOM EDGE EDGE BOTTOM SITE 63 FT 0 IN LOCATION 1 THROUGHOUT THROUGHOUT	IO LOCATION 2 IO LOCATION 2	MEDIUM SMALL OPEN LIGHT MODERATE HEAVY RANDOM SEVERITY MINOR FEW	<u>MEASUREMENT</u>	(HANSEC1, 02/13/2008)OPEN D-CRACK E SIDE OF BOX AT ABUT COMMENT
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MAIN SPANS-1 CONDITIO DELAMINAT DELAMINAT DIAGONAL CR EFFLORESCE REBAR EXPO SPALLS TRANSVERSE CO MAIN SPANS-2 CONDITIO TRANSVERSE CO MAIN SPANS-3 CONDITIO DELAMINAT DIAGONAL CR	NON-COMPOS DN TION TION RACKS ENCE DSED CRACKS NON-COMPOS DN CRACKS NON-COMPOS DN TION RACKS	ETTE 44 FT 0 IN LOCATION 1 AT BEARING EDGE EXTERIOR GIRDERS BOTTOM EDGE EDGE BOTTOM SITE 63 FT 0 IN LOCATION 1 THROUGHOUT THROUGHOUT SITE 44 FT 0 IN LOCATION 1 ENDS ENDS	IO LOCATION 2 IO LOCATION 2	MEDIUM SMALL OPEN LIGHT MODERATE HEAVY RANDOM SEVERITY MINOR FEW SEVERITY MODERATE FEW	<u>MEASUREMENT</u>	(HANSEC1, 02/13/2008)OPEN D-CRACK E SIDE OF BOX AT ABUT COMMENT
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MAIN SPANS-1 CONDITIO DELAMINAT DELAMINAT DIAGONAL CR EFFLORESCE REBAR EXPO SPALLS TRANSVERSE CONDITIO TRANSVERSE CONDITIO MAIN SPANS-3 CONDITIO DELAMINAT DIAGONAL CR	NON-COMPOS DN FION FION RACKS ENCE DSED CRACKS NON-COMPOS DN ON CRACKS NON-COMPOS DN FION RACKS ON SKEW LEN	ETTE 44 FT 0 IN LOCATION 1 AT BEARING EDGE EXTERIOR GIRDERS BOTTOM EDGE EDGE BOTTOM SITE 63 FT 0 IN LOCATION 1 THROUGHOUT THROUGHOUT SITE 44 FT 0 IN LOCATION 1 ENDS ENDS	TO LOCATION 2 TO LOCATION 2	MEDIUM SMALL OPEN LIGHT MODERATE HEAVY RANDOM SEVERITY MINOR FEW SEVERITY MODERATE FEW MINOR	MEASUREMENT MEASUREMENT	(HANSEC1, 02/13/2008)OPEN D-CRACK E SIDE OF BOX AT ABUT COMMENT

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CONDITION	N LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
ASSOCIATED COMPONENT	<u>MATERIAL</u>	CONSTRUCTION			
BACKWALL	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	<u>COMMENT</u>
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	<u>COMMENT</u>
SPALLS	THROUGHOUT		MODERATE		
VERTICAL CRA			MINOR		
PILING	STEEL	H-SHAPE			
<u>CONDITION</u>	-	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
TURNED BACK WINGS	REINFORCED CONCRETE	CAST-IN-PLACE	~		
<u>CONDITION</u>	-	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
LEACHING			MODERATE		
MAP CRACK WING PILES	S THROUGHOUT STEEL	H-SHAPE	MANY		
WING FILES CONDITION		LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
EXPANSION BEARING	STEEL	SINGLE ROLLER	SE, ERIII	MEMBURLINEIVI	<u>Comment</u>
EATANSION BEAKING CONDITION		LOCATION 2	SEVERITY	<u>MEASUREMENT</u>	<u>COMMENT</u>
RUSTING	THROUGHOUT	<u>20 0/1110/1+2</u>	MODERATE	THE TO CHE WILL THE	(RACKEM, 10/04/2011)EXTERIOR.
Restrict	Time Giloci		Modellene		(MICKEIN, 10/0 W2011) EXTENTOR
BENT-2	REINFORCED CONCRETE	MULTIPLE COLUMN			
CONDITION		LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
ASSOCIATED COMPONENT	MATERIAL	CONSTRUCTION	<u>DD / DRITT</u>	THE TO CITE THE TOTAL	COMMENT
COLUMN	REINFORCED CONCRETE	INTEGRAL CAST-IN-PLACE			
<u>CONDITION</u>		<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	<u>COMMENT</u>
FOOTING	REINFORCED CONCRETE	H-PILE			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	SEVERITY	MEASUREMENT	<u>COMMENT</u>
BENT-3	REINFORCED CONCRETE	MULTIPLE COLUMN			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	SEVERITY	MEASUREMENT	<u>COMMENT</u>
ASSOCIATED COMPONENT	<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
COLUMN	REINFORCED CONCRETE	INTEGRAL CAST-IN-PLACE			
<u>CONDITION</u>		<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
HORIZONTAL CR		THROUGHOUT	FEW		
REBAR EXPOS			FEW		
SPALLS	BOTTOM BEINEODCED CONCRETE	H DII E	MEDIUM		
FOOTING <i>Conditio</i> n	REINFORCED CONCRETE LOCATION 1	H-PILE <i>LOCATION 2</i>	SEVERITY	MEASUREMENT	COMMENT
CONDITION	<u>LOCATION I</u>	LUCATION 2	SEYEKII I	MEASUREMENT	COMMENT.
A DA LIGHA ATEN ATE	ALEE AND DEDUCADORS CONCRETE	NON INTEGRAL			
ABUTMENT-4	64 FT 3 IN REINFORCED CONCRETE	NON-INTEGRAL	CELLEDIAN	MEAGIIDEMENE	COMMENT
<u>CONDITION</u>	<u>LOCATION 1</u> MATERIAL	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>CUMMENT</u>
<u>associated component</u> Backwall	<u>MATERIAL</u> REINFORCED CONCRETE	<u>CONSTRUCTION</u> CAST-IN-PLACE			
BACK WALL <u>CONDITION</u>		LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
DELAMINATIO DELAMINATIO		DOCATION 2	MODERATE	MENDORDINENT	<u>Communit</u>
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE	MODERATE		
CONDITION		LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
HORIZONTAL CR	-		FEW		
VERTICAL CRA			FEW		
PILING	STEEL	H-SHAPE			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>

May 02, 2024 4:06:30PM

COUNTY: JACKSON DISTRICT: KC CLASS: STATBR FED-ID: 214 BRIDGE: A0244 CAST-IN-PLACE TURNED BACK WINGS REINFORCED CONCRETE **LOCATION 2 SEVERITY CONDITION** LOCATION 1 MEASUREMENT COMMENT **EFFLORESCENCE THROUGHOUT MEDIUM**

MAP CRACKS

MODOT

STEEL

THROUGHOUT

WING PILES

CONDITION

RUSTING

CONDITION EXPANSION BEARING

H-SHAPE **LOCATION 2**

SEVERITY MEASUREMENT COMMENT

LOCATION 1 STEEL SINGLE ROLLER

LOCATION 1

THROUGHOUT

LOCATION 2 SEVERITY MEASUREMENT COMMENT

RANDOM

HEAVY (RACKEM, 10/04/2011)--EXTERIOR.

OVER/UNDER ROUTES CLEARANCE INFORMATION

CLEARANCES OVER DECK **NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

VERTICAL CLEARANCE TYPE DIRECTION** VALUE DATE COMMENT

CLEARANCES UNDER BRIDGE **NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

RECORD # **ROUTE # LANES DIRECTION OF TRAFFIC** RIGHT LATERAL CLEARANCE **LEFT LATERAL CLEARANCE** <u>UR-ID</u> 515 CST E 12TH ST E 2 1-WAY TRAF 12 FT 6 IN

VERTICAL CLEARANCE TYPE** **DIRECTION DATE COMMENT VALUE ACTUAL** 16 FT 0 IN

STRUCTURE PAINT INFORMATION

CONDITION: RUST AMOUNT: STEEL TONS:

> **ORIGINAL PAINT CONTRACT REPAINT DEPARTMENT REPAINT**

PAINT TYPE: PAINT TYPE: PAINT TYPE: MANUFACTURE: NAME: NAME: NAME: **SURFACE PREP:**

PAINT COLOR: PAINT COLOR: PAINT COLOR: PAINT YEAR: PAINT YEAR: PAINT YEAR: MILS: MILS: MILS:

REQUESTED WORK ITEMS

GENERAL WORK COMMENTS:



May 02, 2024 4:06:30PM

CLASS: STATBR COUNTY: JACKSON DISTRICT: KC FED-ID: 214 BRIDGE: A0244 RESPONSIBILITY **LOCATION ITEM CATEGORY PRIORITY DATE WORK ITEM COMMENT** SUBSTRUCTURE REGIONAL BENT-COLUMN REPAIR COLUMN OR SHAFT 02/08/2006 (WILSOR2, 10/30/2019)--REPAIR COLUMNS 10 SQFT AT IB3 3 2 09/28/2011 DISTRICT SPECIAL **ABUTMENT** REPLACE EXPANSION DEVICE EXPANSION DEVICE 3 09/18/2017 (WILSOR2, 10/30/2019)--DROP INLET CLOGGED AT IB3 DISTRICT ROUTINE SEE COMMENT CLEAN AND FLUSH SUBSTRUCTURE DISTRICT SPECIAL BENT-CAPS REPAIR BEARING SEAT SUBSTRUCTURE 2 09/25/2019 DISTRICT SPECIAL ROADWAY SURFACE SEAL DECK WITH IN DECK DECK 01/02/2020 ***UTILITY ATTACHMENTS*** **OWNER UTILITY METHOD MEASUREMENT TYPE VALUE NUMBER** UTILITY ATTACHMENT COMMENT **ELECTRIC ENCASED** DIAMETER 2 IN

PROGRAM NOTES INFORMATION

YEAR 2007 PROJECT # MONTH LET YEAR LET UTEMS WEARING SURFACE

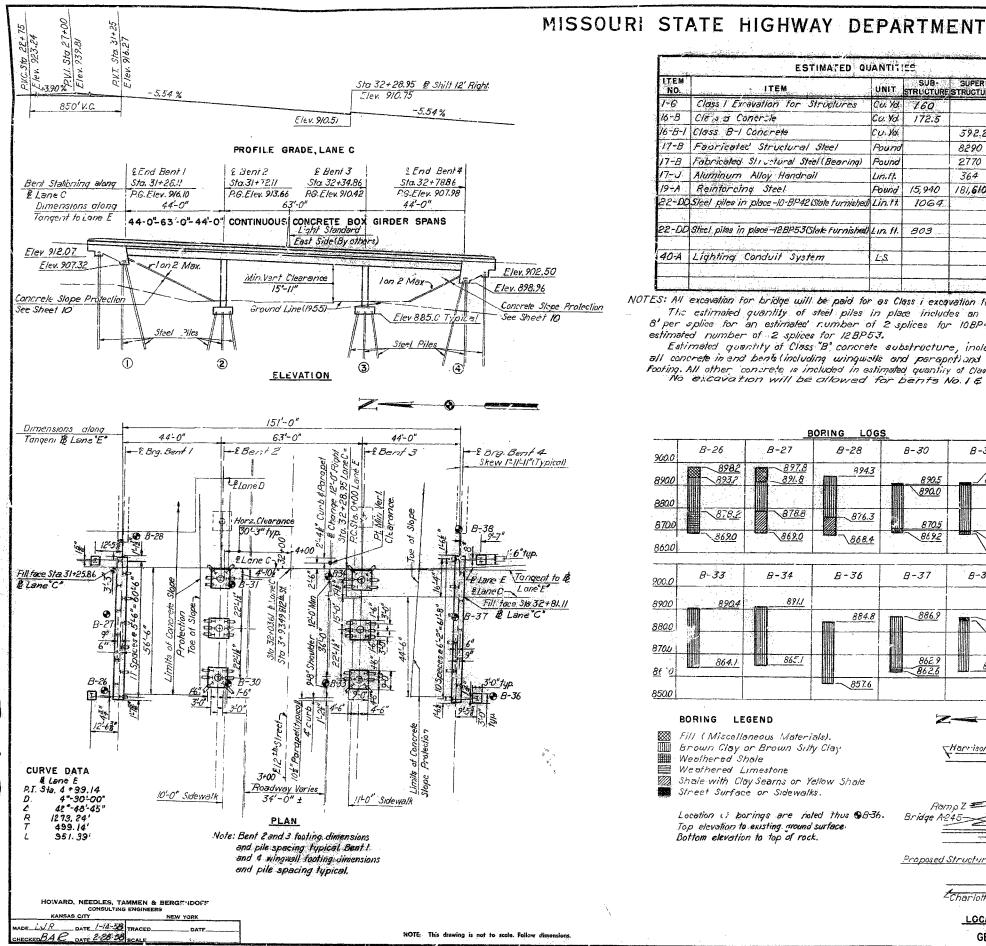
<u>COMMENT</u> (MARTEP, 10/26/2011)--REPLACE CATHODIC PROTECTION SYSTEM, PLUS LOW SLUMP OVERLAY.

COMP	UTER GENERATED RATINGS AND D	EFICIENCY ITEMS	***ADVANCED SIGN INFORMATION***				
NOTE: The items listed in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.			SIGN#	SIGN TYPE	PROBLEM	PROBLEM DIRECTION	
Rated Item	<u>Rating</u>	Rating Date	1				
[Item 67] Structure Evaluation Rating:	5-BETTER THAN MINIMUM	10/1/2019					
[Item 68] Deck Geometry Rating:	9-SUPR TO PRES DESIRABLE	3/21/2003					
[Item 69] Underclearance:	7-BETTER THAN PRESENT MIN	3/21/2003					
Sufficiency Rating:	83.0%	3/2/2023					
Deficiency:	NOT DEFICIENT	3/20/2002					
Funding Eligibility:				***OUTFALL INSP	PECTION INFORMATIO	N***	
Estimated New Structure Length:						- ·	
Estimated Structure Cost:			# OUTFALLS:	IN	SPECTOR:		
Estimated Total Project Cost:			STATUS:		DATE:		
Year of Cost Estimate:			NOTES:				
NOTE: The above structure length and cost estimates are computer generated using algorithms in the TMS system. These algorithms are generalized to use NBI items to come up with a new structure length and width to calculate a new area which is taken times a representative cost per square foot. The actual structure size and cost may vary significantly from these numbers once site specific engineering is done.							

May 02, 2024 4:06:30PM

INTY: JACKSON DISTRICT: KC CLASS: STATBR FED-ID: 214 BRIDGE: A0244

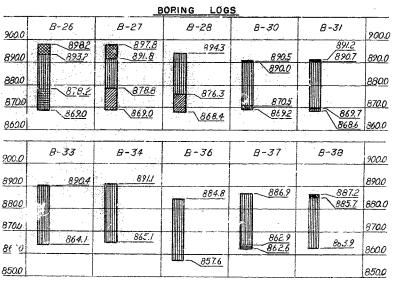
 $Design_No = a0244$



ESTIMATED QUANTITIES								
NO.	ITEM	UNIT	SUB- STRUCTURE	SUPER- STRUCTURE	TOTAL			
1-€	Class I Excevation for Structures	Cu. Yd.	160		160			
l6-B	Cle a d Concrete	Cu. Yd.	172.5		172.5			
16-B-I	Class B-I Concrete	CU. Yo.	-	592.2	592.2			
17-B	Fanricated Structural Steel	Pound		8290	8290			
17-B	Fabricated Structural Steel (Bearing)	Pound	***************************************	2770	2770			
17-J	Aluminum Alloy Handrall	Lirett.		364	364			
19-A	Reinforcing Steel	Pound	15,940	181,610	197,550			
22-DD	Sieel piles in place-10-81942 (State furnished)	Lin.ft.	1064		1064			
2-DD	Steel piles in place -12.8P53(State Furnished)	Lin. ft.	803		803			
40-A	Lighting Conduit System	L.S.			1			
	State and the Control of the Control	. 7		anja i i i				

NOTES: All excavation for bridge will be paid for as Class i excavation for structures. This estimated quantity of steel piles in place includes an allowance of 8' per splice for an estimated number of 2 splices for 108P42 and an estimated number of 2 splices for 12BP53.

Estimated quantity of Class "B" concrete substructure, includes all concrete in and ben's (including winquells and parapet) and intermediate bent Footing. All other concrete is included in estimated quantity of Class "B-1" Concrete No excavation will be allowed for bents No. 1 & 4



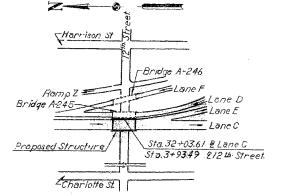
BORING LEGEND

Fill (Miscellaneous Materials). Brown Clay or Brown Sitty Clay Weelhered Shale

Weathered Limestone

Shale with Clay Searns or Yellow Shale Street Surface or Sidewalks.

Location it borings are noted thus @B36. Top elevation to existing around surface. Bottom elevation to top of rock.



LCCATION SKETCH

GENERAL PLAN AND ELEVATION

5 MO.

GENERAL NOTES

Design Specifications: AA.S.H.O. 1953.

Construction Specification: Missouri Standard Specifications for State Roads, Malerials, Bridges, Culverts, and Incidental Structures, 1955.

Design Loading: H20-S16-44 (Modified 24.000 Tandem Axle)

(15 1/Sq. Ft. future wearing surface).

Concrete : Concrete stress: Class B-1' fo = 1400 psi, Class B' fo = 1200 psi, Concrete for superstructure shall be Class 3-1' air entrained, see special provisions. Concrete for substructure shall be Class "B" air entrained If the contractor desires he may use Class B-1" in lieu of Class B for concrete in substructure with payment made on the basis of Class "B" concrete (All forms are to be removed from the interior of box girdens.)

Reinforcing Steel: Allowable Stress 20,000 psi.

All splices in reinforcing steel shall be 32 bor diameters. Bar sizes are designated on the plans by numbers. The first digit after the letter in three digit marks and the first two digits ofter the letter in four digit marks indicate the size of the

Dimensions shown on the plans from reinfarcing steel to outside edge of concrete are all clear dimensions.

All bending dimension are from "out to out" of bars. All piles shall conform with detail and notes on sheet No.3. All steel piles required for this structure will be furnished by the state. (See Special provision All piles shall be driven to or into sold rock. bou'ders, stale or cemented gravel, or to not less than full lerigth authorized and to sustain a load of at least 37 tons per pile for 10 BP 42 and 46 tons per pil tor 128P53. All piles shall be driven with a steam hammer. See section 22-90 of Standard Specifications for required painting of steel piles

Compacted roadway fill (full roadway width) shall be placed up to elevation of nottom of concrete beam in front of and not less than 25'-0" in back of end bents before steel piles ore driven Waterproofing of Decks: Superstructure deck to be water proofed, see.

special provisions. Welding: Qualification of welding operators will be required.

Joint Filler: Where joint tiller is specified on the plans, it shall conform with the requirements for gray rubber compound joints as given in section 59-228 of the standard specifications.

Fiber Conduit: Expansion sleeves shall be required in liber conduits of all expansion joints. Expansion sleeves shall be an oversized fiber conduit with rubber ring as provided by the manufacturer. Utilities: All utilities, unless shown otherwise, shall be removed or

relocated by others. The contractor will notify the owner of the utilities of his work schedule sufficiently in advance to allow time for the disposition of utilities.

Shipping: Permits must be obtained for all truck loads over legal length.

Traffic: 12th Street shall remain open to traffic during construction, Falsework over 12th Street shall be constructed with a minimum vertical clearance of not less than 12'-0" and a minimum loteral clearance of not less than 28'-0. (See Special Provisions)

B.M. #1- "X" on South Bolt-Top hydrant N.W. corner 12th & Charlotte. Elev 888.18 .

SUBMITTED BY REGISTERED PROFESSIONAL

觀 等許的別

THS REET BRIDGE: LANE C OVER 12' STATE ROAD U.S. 40 MIDTOWN PREEWAY

KANSAS CITY . MO.

NJ. 1-352 (18) (FAI-R; 4) STA. 32+03.61 LANE C JACKSON COUNTY STD. R

Whittom 4- 6501958 A 244

SEE FINAL PLANS BROWN-LINES

BENDING DIAGRAMS SIZE LENGTH MARK TYPE A B C D SIZE LENGTH MARK TYPE A B C D DIMENSIONS DIMENSIONS NO. SIZE LENGTH MARK TYPE A B C D

269 4 4 - 10" P405 109 1-6" 612 44

2 4 5!-5" P406 109 1-6" 10" 42

4 4 4 4-10" P407 133 1-1" 1-412 6" 1-0" SIZE LENGTH MARK NO. B C D (Hook, B 24 6 30°-4" 3601 5tr. 75 6 14'-8" 8602 709 3'-2" 3'-8" ENO BENT I H401 Str. H402 105 2-0" 2-3" 2-3" | 171 | 4 | 28 8" | 5401 | 366 | 26 7" 5402 | 14 | 14 4" 5403 15-5" H403 5th 16-7" H404 5tr 1-3" H405 Str 1-6" H406 5tr 20 10 58-8" 5/001 517 8 1 15-5" 6/002 8 8 13-11" 6/003 Stook 42 125 109 20 6 32'-9" H601 5th 4 1 19'-0" H602 1 124 123 ____**J**al 2 18-9" H603 6 16-7" H604 3 13-9" H605 1 11-9" H606 END BENT 4 24 4 4 4'-2" 0401 109 8½ 1-0" 4½
48 4'-7" 0402 109 8½ 1-2½ 4½
43 5-0 0403 109 8½ 1-5; 4½
48 5-5" 0404 109 8½ 1-7½ 4½
3 4-9" 0405 109 1-0" 1-0" 4½
2 4 6-0" 0406 109 1-0" 1-7½ 4½ 286 5 31'2" 5501 57:.

166 1 36-3" 5502 34:.

199 28-10" 5504 32.

32 4-0" 5506 33:.

33 36-6" 5507 62.

35 36-9" 5508 35.

36 29" 5509 36.

37 29-7" 5510 18.

38 29-7" 5511 31.

31 29-10" 5512 17.

31 29-10" 5512 17.

31 29-6" 5514 9.

9 19-4" 5515 1. 2-6" F601 Str. 16 6 126 128 2 5-11" H607 10 4-9" H608 5-11" 1:607 129 2 | 11-11" | H609 | 2 | 9'-3" | H610 | 2 | 6'-9" | H611 | 16 | 2'-8" | H612 | 4 | 14'-0" | H613 | 1 | 6 | 15'-5" | H614 | 51r. 11-11" H609 Note: Make one full tum too & bottom and one for turn at splices. 2**4** 20 106 133 134 131 20 6 33'-3" H501 Sin 6 19'-3" H602 7 13'-7" H603 1 12'-5" H604 4 10'-5" H606 2 6'-1" H606 2 4 6" H607 2 7-2" H608 10 4'-4" H602 2 6 7'-9" H610 Str. CUTTING DIAGRAMS 66 4 4'-4" V401 123 2'-9" 3'-6" 3'-9" 3'-7" 6 13'-0" V402 123 2'-11" 2'-9" 3'-9" 2'-10" BENT ! 10-9" 11-3" 96 4 18-2" 6401 5tr.
72 26°9" 6402 4
8 17-9" 6403 36 17-11" 6404 36 13-8" 6405 30 12-5 6406 30 18-5" 6407 24 4 7-8" 6409 5tr. 1.47 5-5" 5-10 6 28-1 5607 5 47-6 5602 27-0 5603 34-6 5604 24-0 5605 51 44 16 3-11" 6-10" 6 30 4-1422-Cut 4 4-1408 Cut 4 30 24-0 5806 14 9-1" 5806 12 32-2" 5607 6 32-8" 5609 6 20-8" 5609 6 36-5 5610 8 29-0" 5610 1 6'-5" V413 V04 5'-7" 10" 5 5-10" V414 104 6'-0" 10" 1 7'-3" V415 104 6'-5" 10" 4 14'-4" V491 123 2'-9" 3'-6" 3'-9" 3'-7" 13'-0" V402 123 2'-11" 2'-9" 3'-9" 2'-10" 6:6" V403 3tc 6" 1'2" 5" 1'-8" 7'-6" V405 108 2'0" 5'-6" 5" 1'-11" 55'2" V406 105 6" 2'-4 2'-4" 7-3" V415 104 6-5 10 4'-9" V416 5/r 3'-6" V417 104 2-8" 10" 2'-6" V419 5/r 14'-2" V419 105 10" 6-7" 6-7" 3-11" V420 5/r 4'-3" V421 11-3" V422 274 5 5-9" 6501 129 3:9" /-0" /-0" 274 5 5-2" 6502 105 3:1" /-0" /-0" 5.2" V406 105 6 2 4"2" V407 5tt 8"-10 V466 131 1"11" 1 2"8" V409 5tt 3"-6" V410 104 2"-8" 4"9" V411 5tt 5-7" V412 104 4"9" 15-0" V413 105 2"-0" 1 4"0" V414 5tt 8 29-0" 5611 4 34'-0" 5612 2 26'-8" 5614 2 36'-8" 5614 2 36'-1" 3615 2 29'-6" 5616 2 34'-7" 5617 2 27-2" 5618 51r 56 3'-2" 5619 124 4" 9" 10" 1-3" 72 6 5-0" 5620 5'r 6'-0" |6503 |28 | 3'-3" |1'-0" | 9" | 1888 5 120 6 2-10° 6601 Str. 5'-4" V423 4-11" V4Z4 4'-9" 10" 2'-0" 5'-5" 6'-6" 1 4.6" V425 1 4.1" V426 2.3" V427 36 8 26'-9" G801 Str. V427 43-0" G1001 Str / 3-3 V468 / 2'-10 V429 4 3-9" V430 Str. | 10 | 53-0" | G|00|15tr |
34	G	00	2	
45	21-0"	G	00	3
18	43-0"	G	00	4
18	35-0"	G	00	5
36	26-8"	G	00	5
36	38-0"	G	00	7
18	36-8"	G	00	8
36	31-0"	G	00	8
36	21-6"	G	00	9
36	21-6"	G	00	1
36	75-0"	G	01	1
78	70	9-0"	G	01
2 4 700-5 C-40 127 2-3 25 6
1 4 597-0 C-502 127 2-3 19 3
1 4 715-8 C-403 127 2-5 23-2
2 4 612-3 C-404 127 2-3 19-9 Prefix all bar marks for Bent I with BI, prefix all bar marks for Bent 4 with "B4" and prefix all bar marks for Superstructure with SU. Example, BIH401, B4-F601, SU-C 1101. EENTS 283 BRIDGE: LANE C OVER 12TH STREET 120 8 8'-8" F801 5tr. *j 9 4 4* 6-11" (901 /26 /-9" 3-2 2-0" 2-0" 96 9 STATE ROAD US 40 MIDTOWN FREEWAY 40 | | 25-2" CNO 5h; 20 | | 25-7" CNO 5h; 20 | | 22-1" CNO 5h; 20 | | 22-1" CNO 5h; 40 | | 21-8" CNO 5h; 32 4 20-0" P401 Stc 16 4 5-8" P402 Stc 16 4 7-6" P403 Stc 16 4 24"-2" P404 Stc 11 7'-11" FIIDI 126 5-4" 1-7" 1-0" 1-0" 120 KANSAS CITY, MO. PROJECT NO. 1-352 (18) (FAI-RT.4 STA.32+03.6) LANE J JACKSON COUNTY HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY
MADE #7.5. DATE 3.5.58 TRACED. DATE SHEET 2, OF 10 A 244 REINFORCING SCHEDULE NOTE: This drawing is not to scale. Pollow dimensions

MISSOURI STATE HIGHWAY DEPARTMENT

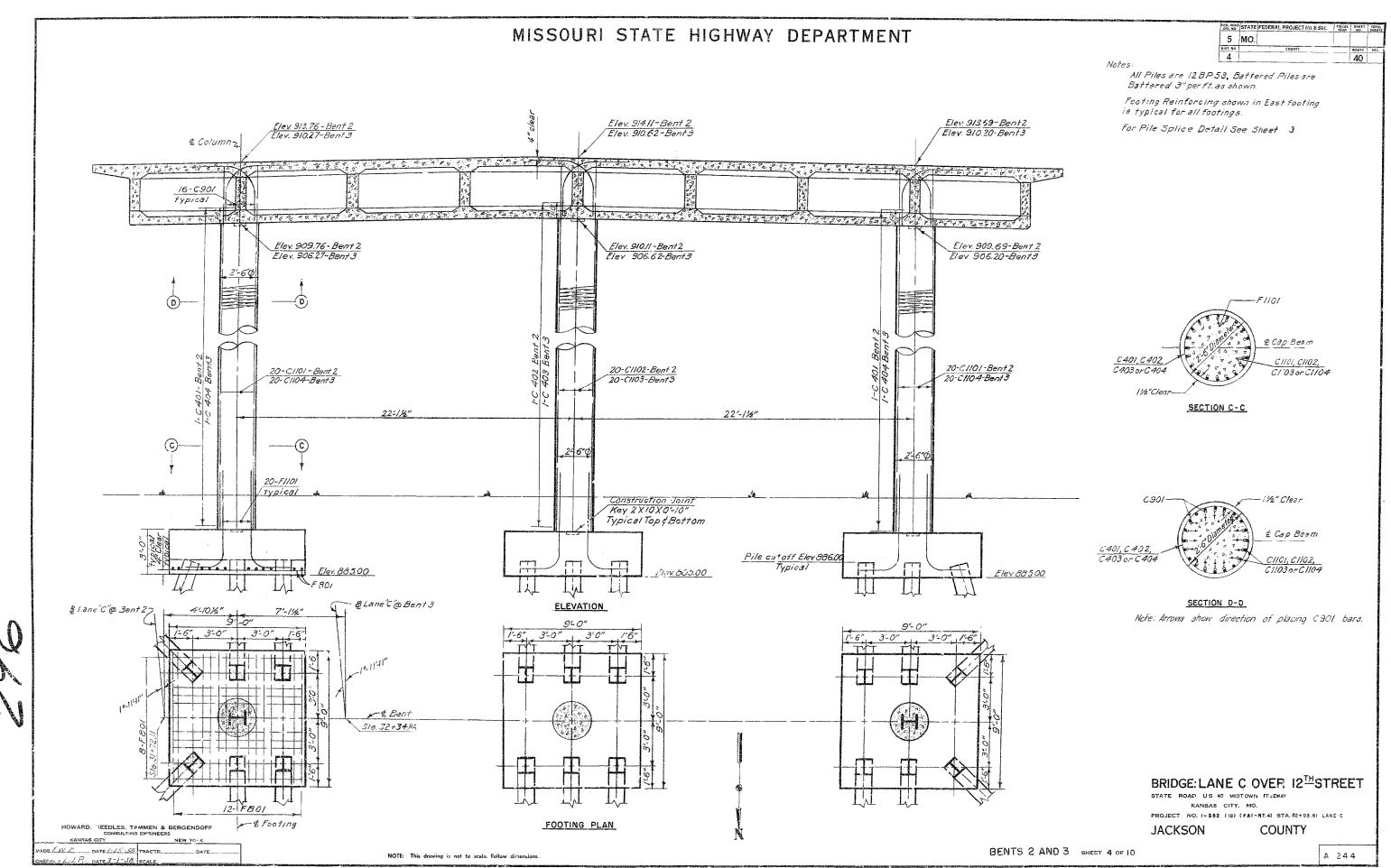
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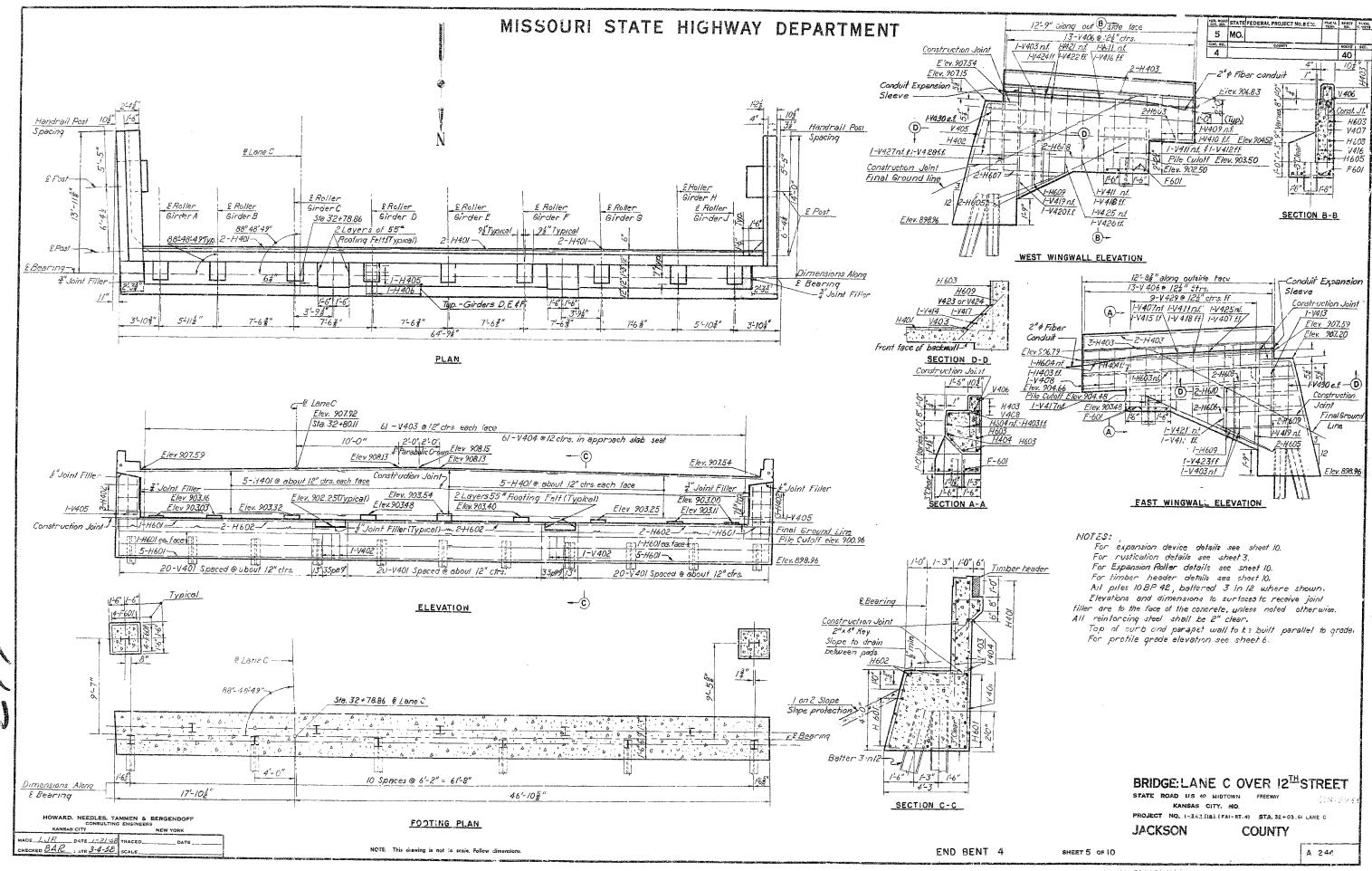
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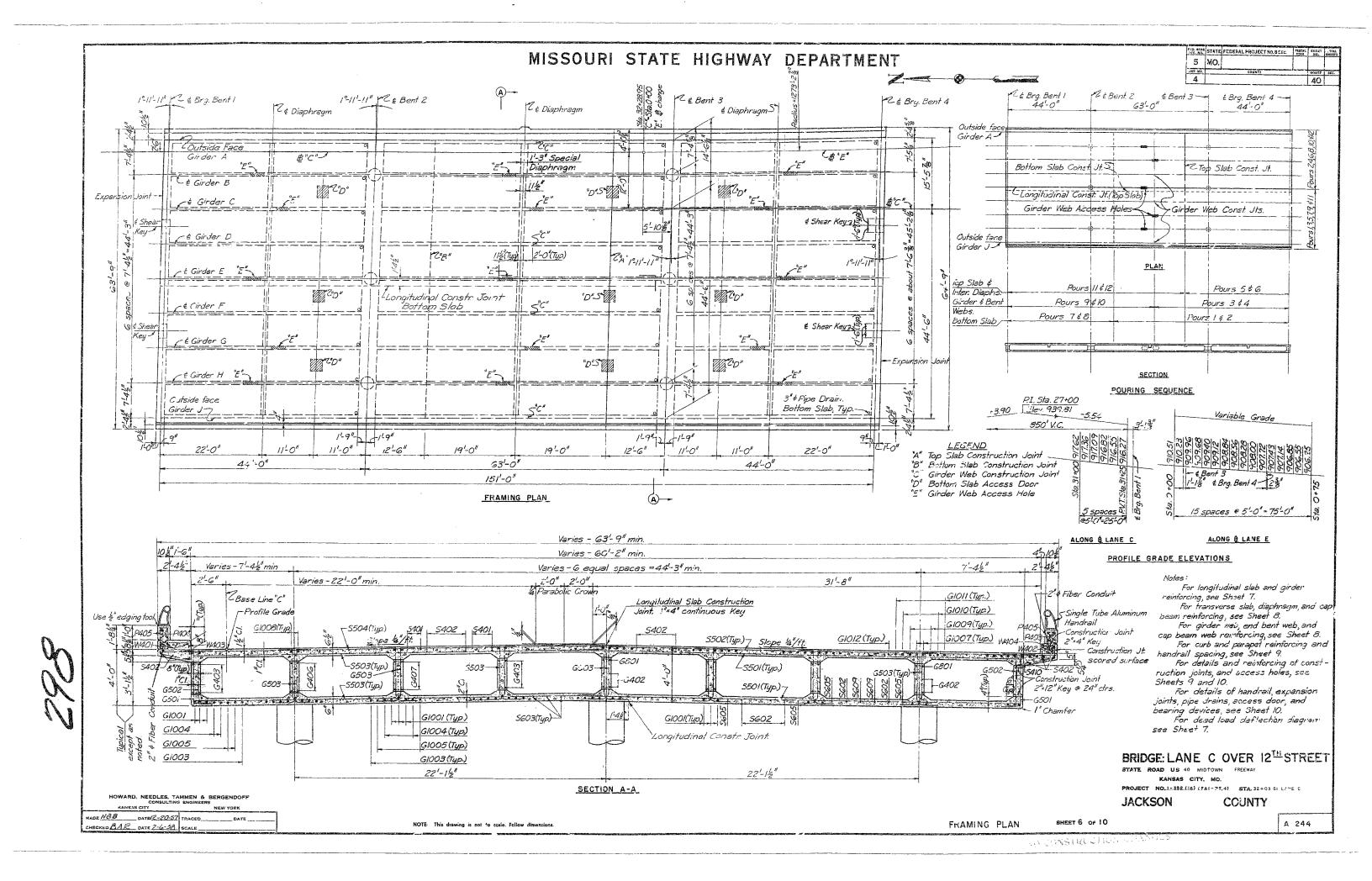
MO COMPTRETATION CONTRACTOR

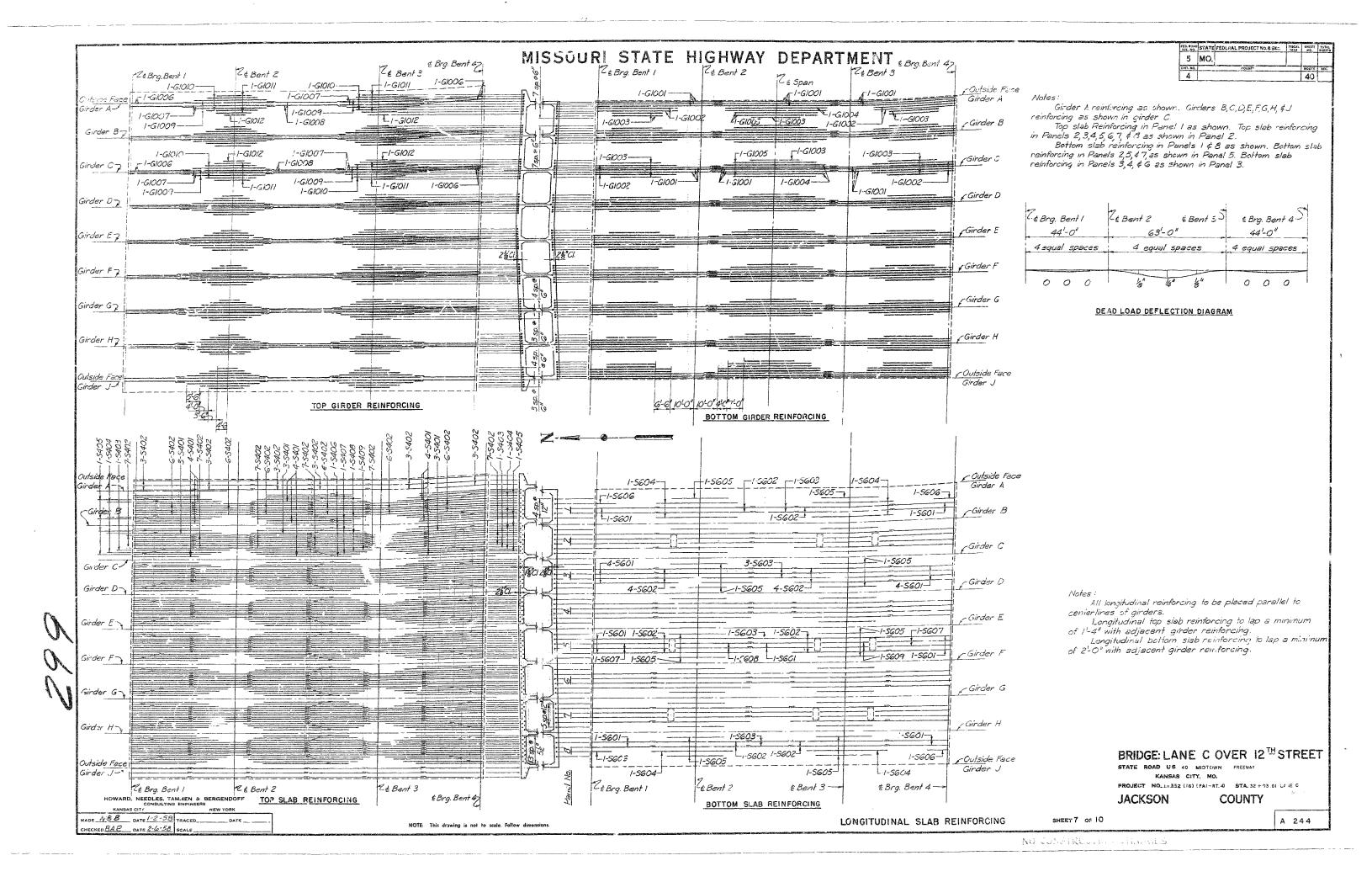
FED. 10/0 STATE FEDERAL PROJECT NO. G SEC. FISCAL SHEET TOTAL

5 MO.



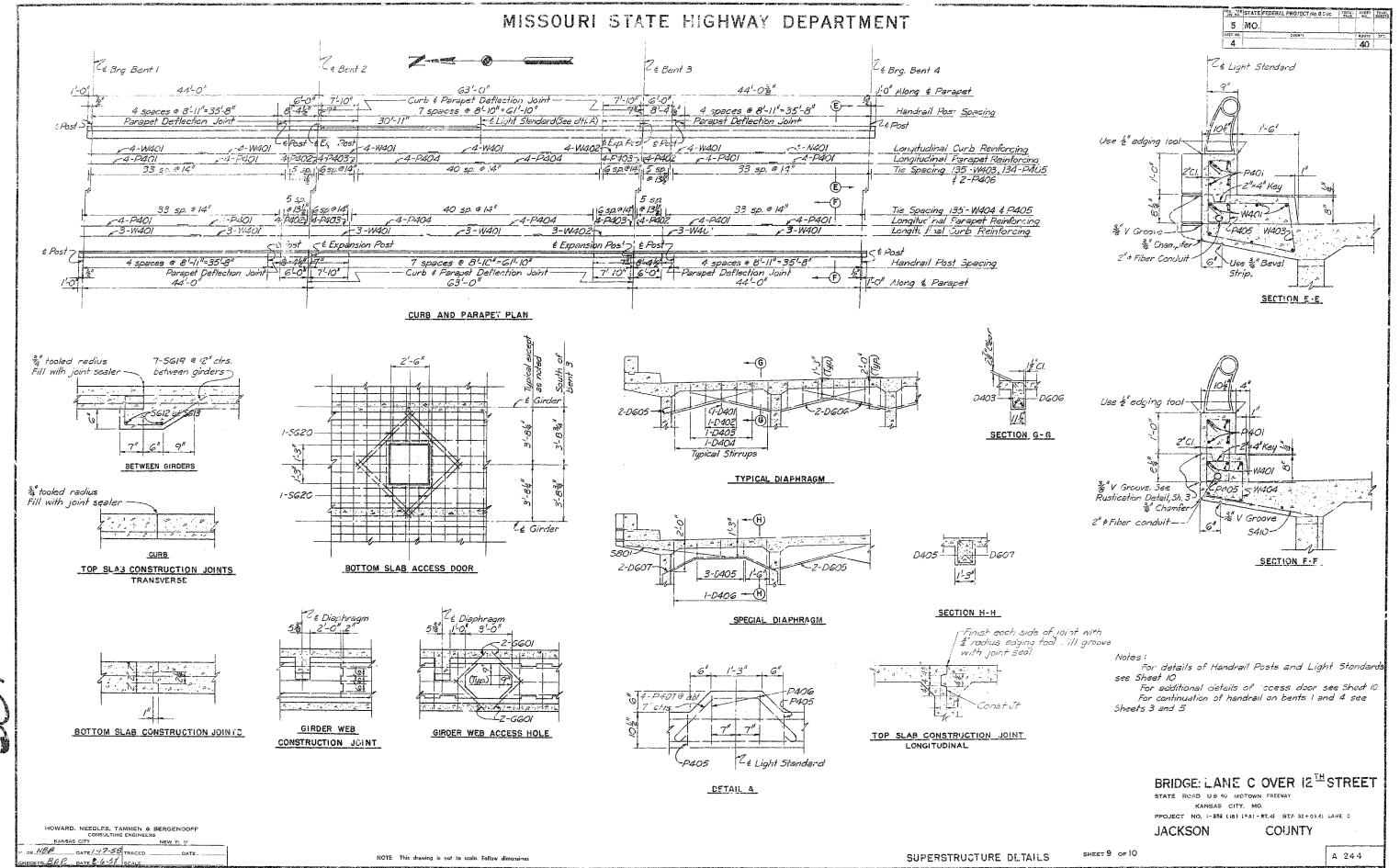




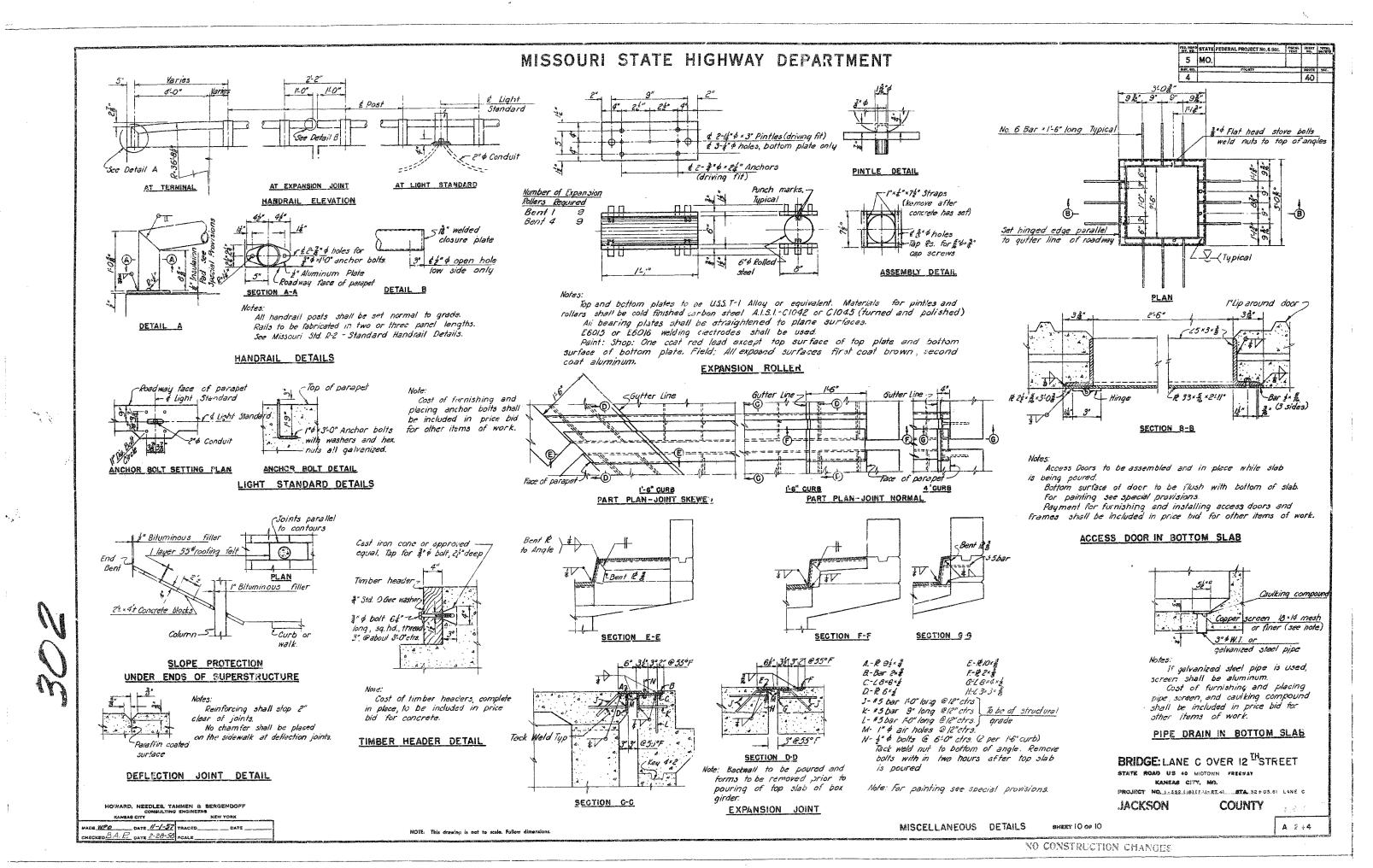


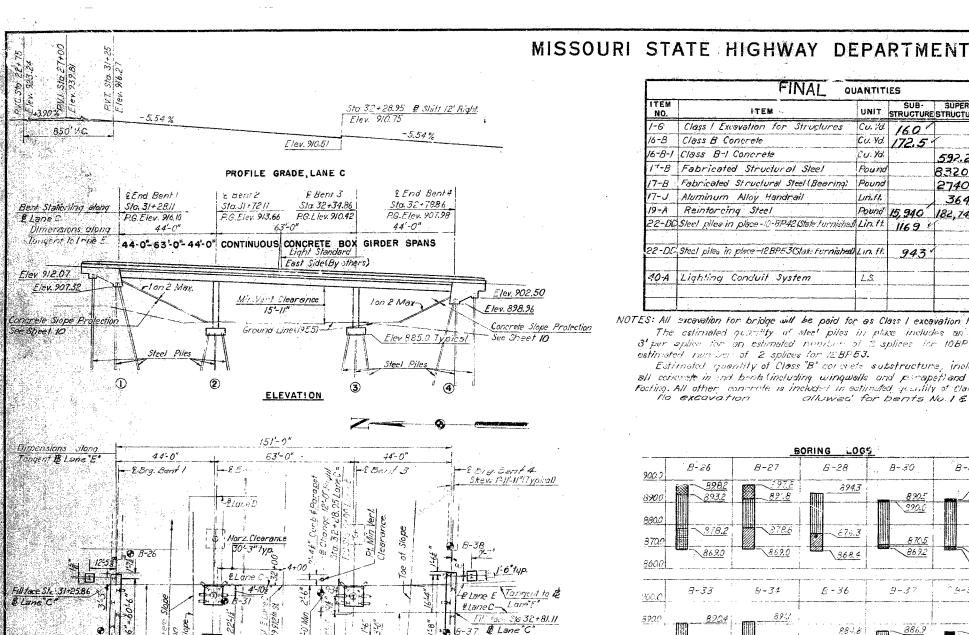
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FED. FORD STATE FEDERAL PROJECT NO. 8 SEC. FISCAL SHEET GTAL DIV. NO. STATE FEDERAL PROJECT NO. 8 SEC. TEAR FOR EMPETS



NO CONSTRUCTION DIAM HIS





3+00

PLAN

Note: Bent 2 and 3 footing dimensions

and pile spacing typical,

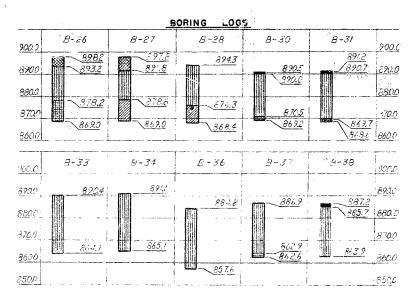
and pile spacing typical. Bent ! and a winguall footing dimensions

1273.24

NO.	HTEM -	UNIT	SUB- STRUCTURE	SUPER- STRUCTURE	TOTAL
1-6	Class Excevation for Structures	Cu. 1d.	160		160
/6-B	Class B Concrete	Cv. Yd.	172.5		172.5
16-B-I	Class B-I Concrete	CU. Yd.		592.2	
17-B	Fabricated Structural Steel	Pound			8320
/7-B	Fabricated Structural Steel (Bearing)	Pound		2740	2740
17-J.	Aluminum Alloy Handrail	Lin.ft.		364	364
/9-A	Raintorcing Steel	Pound'	15,940	182,740	198.68
22-DC	Sleet piles in place-10-8P42 (State furnished)	Lin.ft.	1169		1169
		1.			
22-DD	Steel piles in place-12BP53(State Furnished)	Lin. ff.	943		943
	:				
40-A	Lighting Conduit System	L.S.			1 .
	2 * * * * * * * * * * * * * * * * * * *				

NOTES: All excavation for bridge will be paid for as Class I excavation for structures. The estimated quartity of steel piles in place includes an allowance a 3' per splice for an estimated number of 2 splices for 108P42 and an estimated number of 2 splices for 12 BP 53.

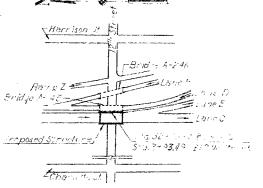
Estimated quantity of Class "B" concrete substructure, includes all concrete in and bents (including wingwalls and parapet) and intermediate best facting. All other, concrete is included in estimated quality of Class 8-1 Concrete allowed for bents No. 1 & 4 No excavation



BORING LEGEND

Chi (Ni scallaneous Materials). Brian Non in brown Star. Western as chare WAR ST 15 1808 1111 285011 Distribution Clay Searns on Yellow Stryle. Cineet Sunface on Sidewatto.

Location of borings are noted thus \$836. Top elevation to existing ground surface. Bottom elevation to top of rock.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION SHEET IA OF J

FINAL PLANS

FED. ROAD DIV. NO.	STATE	FEDERAL PROJE	CT No. 8 Se	C PISC	AL SHEET	TOTAL
5	MO.	1352	(18)			
DIST. NO.		COSTAT	¥	7.1.	ROUTE	1.00
4	J	4CKSC	M		40	3 (3)

removed from the

GENERAL NOTES

Design Specifications: AAS.H.O 1953.

Construction Specification: Missouri Standard Specifications for State Roads, Materials,

Bridges, Culverts, and Incidental Structures, 1955.
Design Loading: H20-S16-44 (Modified 24,000" Tandem Axle)

(15#/So. Ft. future wearing surface). Concrete: Concrete stress: Class B-1" fc=1400 ps.i, Class B' fc=1200 nsi. Concrete for superstructure Concrete for superstructure Class "B-1" all entrained, see special provisions. Concrete for substructure Class "B" air entrained Class B' oir entrained If the contractor desires he may use Class Bi in lieu of Class B' for concrete in substructure with payment made on the basis of Class B' concrete (All forms

Interior of box girders.) Reintorcing Steel: Allowable Stress 20,000 psi

Pilina:

A" splices in reinforcing steel 32 bar diameters. Bar sizes are designated on the plans by numbers The first digit after the letter in three digit marks and the first two digits ofter the letter in four digit marks indicate the size of the

Dimensions shown on the plans from reinforcing steel to out side edge of concrete are all clear dimensions.

All bending dimension are from "out to out" of paraconform with detail and notes on sheet 1.5.3. Attested piles required for this structure turnished by the state (See Special provisions All piles ... driver to or into solid rock houlders, shale or cemented gravel, or to not less than full length authorized and to sustain a load of at least 37 fone per pile for 10 BP 42 and 46 toris per pile for 12 BP53 All piles shall ke driven with a steam hammer. See section 22-90 of Standard Specifications for required painting of steel piles.

Compacted roadway fill (full roadway width) elevation of bottom of congrete beam in front of and not less than 25-0" in back of end bents before steel piles ore driven

Waterproofing of Decks: Superstructure deck water proofed, see special provisions.

Welding: Qualification of welding operators

required. Joint Filler: Where joint tiller is specified on the plans, if

with the requirements for gray rubber compound joints as given in section 59-228 of the standard specifications.

Fiber Conduit: Expansion sleeves required in fiber conducts at all expension joints. Expansion sleeves an oversized fiber conduit with rubber ring as provided by the manufacturer. Utilities: All utilities, unless shown otherwise, removed or

relocated by others. The contractor of the utilities of his work chedule sufficiently in advance to allow time for the disposition of utilities.

Shirping: Permits obtained for all truck loads over legal length.

Traffic: 12# Street remain open to traffic during construction. Folsework over 12th Street constructed with a minimum vertical clearance of not less than 12-0" and a minimum Isteral clearunce of not less than 28-0 (See Special Provisions)

3M. FI-X South Bolt-Top hydrant N.W. corner 12th & Charlotte, Elev. 888.18 .

SUBMITTED BY

L. n. 1 sigued REGISTERED PROFESSIONAL ENGINEER MISSOURI NO. E-253

BRIDGE: LANE C OVER 12"STREET STATE ROAD U.S. 40 MIDTOWN FREEWAY

KANSAS CITY , MO. PROJECT NO. 1-352 (18) (FAI-RT.4)

STA. 32+03.61 LANE C. 115 P COUNTY

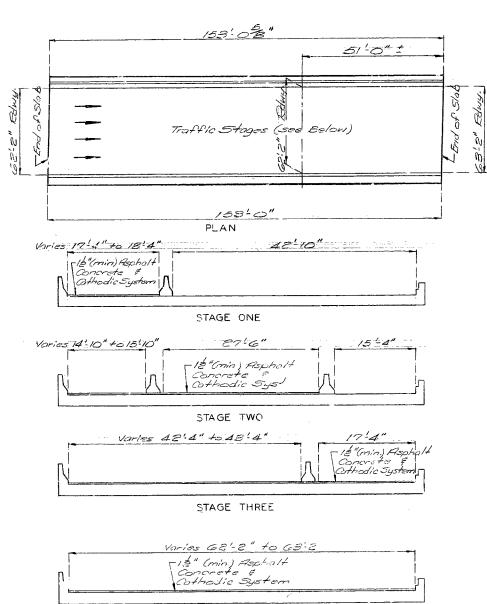
JACKSON APPROVED BY Mars. M. Whitton 4. 660/95

4 da /200 STD. R 2 STO. C-HOR A 244

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

ESTIMATED QUANTITI	ES	
. ITEM		TOTAL
Special Work	LumpSum	/
Othodic Protection System	Lump Sum	1
Esphalt Cement 60 70 or AC 20	Ton	4.4
Mineral Aggregate (Asph. Conc.) (Type	AMix) TON	<i>8</i> 4
Tack Coat - Emulsified Asphalt	Gal.	50
Repairing Concrete Deck (Half-Soling)	Sq. Ff.	3680
Full Depth Repair	Sq. F4.	460
Class Bl Concrete	Cu. rd.	37.7
Reinforcing Steel (Grade GO)	165.	4230
Conduit System on Structure	Lump Sum	/
Strip Seal Exponsion Device	Lin. Ft.	125
Eeinforcing Steel (Epoxy Conted)	165.	4010
Clean and Faint Bearing	Each	18

tack Coat shall be emulsified asphalt applied at a rate of 0.05 gallons per square yords.



DESIGNED April 1984

DETAILED April 1984

CHECKED May 1984

BLL OF REINFORCING STEEL

3:1"

Varies

All dimensions for E-bars are out to out.
Hooks and bends shall be in accordance with the
CKSI Manual of Standard Practice for Detailing
Reinforced Concrete Structures stirrup and tie

dimensions.

Actual lengths of reinforcing bors are measured along centerline bor and to nearest inch.

56-bors shall be epoxy conted.

** Two additional bors are included for testing.

R6 THRU RI4

HI THRU H3 SI THRU SI4

33

BENDING DIAGRAM

R5

R 4

LINGTH

5 RG 15' - 0' 16 5 R7 15' - 5" 161

LB.

14

72

NO. \$\frac{\partial}{\partial}\text{MARK} LENGTH LB.

1/6.5 \(\beta \) \(\beta \) - 8' 542

1/96 \(\beta \) \(\beta \) 2' - 9' 559

1/97 \(\beta \) \(\beta

1 5 R8 13'-9" 1 5 R9 12'-0"

10 5 E10 12'- 5" 130 3 5 E11 10'- 9" 34 12 5 E12 34 - 9" 454

34 5 E13 9'- 9" 244

6 5.84 42°-9° 268 270 551 3° 6° 986 9 552 52° 3° 490 8 1053 15° 0° 516

2 1054 21-6" 185

2 1055 31-0" 26 e 105638'0" 321 8 55738'8" 32 4 558 52"-4" 218

2 5 59 34'-8" 72

2 10511 31 5" 220 1 10512 35 10" 154

1 5513 39'-4" 41 1 5514 47-4" 49

29 5 HL 3'-1" 6 5 H2 15' 6" 6 5 H3 12'-5"

Note: This drawing is not to scale. Follow dimension

Sheet No. 1 of 10.

FED. AID FIRCAL SHEET TUTAL, PROJ. NO. YEAR NO. SHEETS **15** 37 SEC./3UR. 5 TWP. 49 RGE. 33

GENERAL NOTES!

Design Specifications: A.A.S.H.T.O 1977 and Interims thru 1982

Design Unit Stresses:

Class Bl Concrete

F'c=4000 psi

Reinforcing Steel (Grade GO)

fy=60,000 psi

Jisint Filler: All joint filler shall meet the requirement of 5td. Spec. 1057.2.4 except as noted.

Reinforcing Steel: Minimum clearance to reinforcing steel shall be It " unless otherwise shown.

Traffic: Traffic over structure to be maintained during construction.

Outline of old work is indicated by light dished lines. Heavy lines indicate new work.

Bors bonded in ald concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, ald bors shall extend into new concrete at least 40 diameters for smooth, bors and 30 diameters for deformed

motch 12" " bridge overlay (Rodway Item)

Construction Clearance: A minimum vertical decrance of 18'6" from crown of existing lones and a minimum lateral clearance of 32'0" Mormal to 12" Street centered on existing lanes should be maintained during construction.

REPAIRS TO

BRIDGE : LANE C OVER 12TH STREET

STATE ROAD : MIDTOWN FREEWAY

IN KANSAS CITY

PROJECT NO. I-IR-70-1 (101) STA. 32 +03.61

DATE 6/29/84

JOB NO. 4-1070-450

RTE. I-70

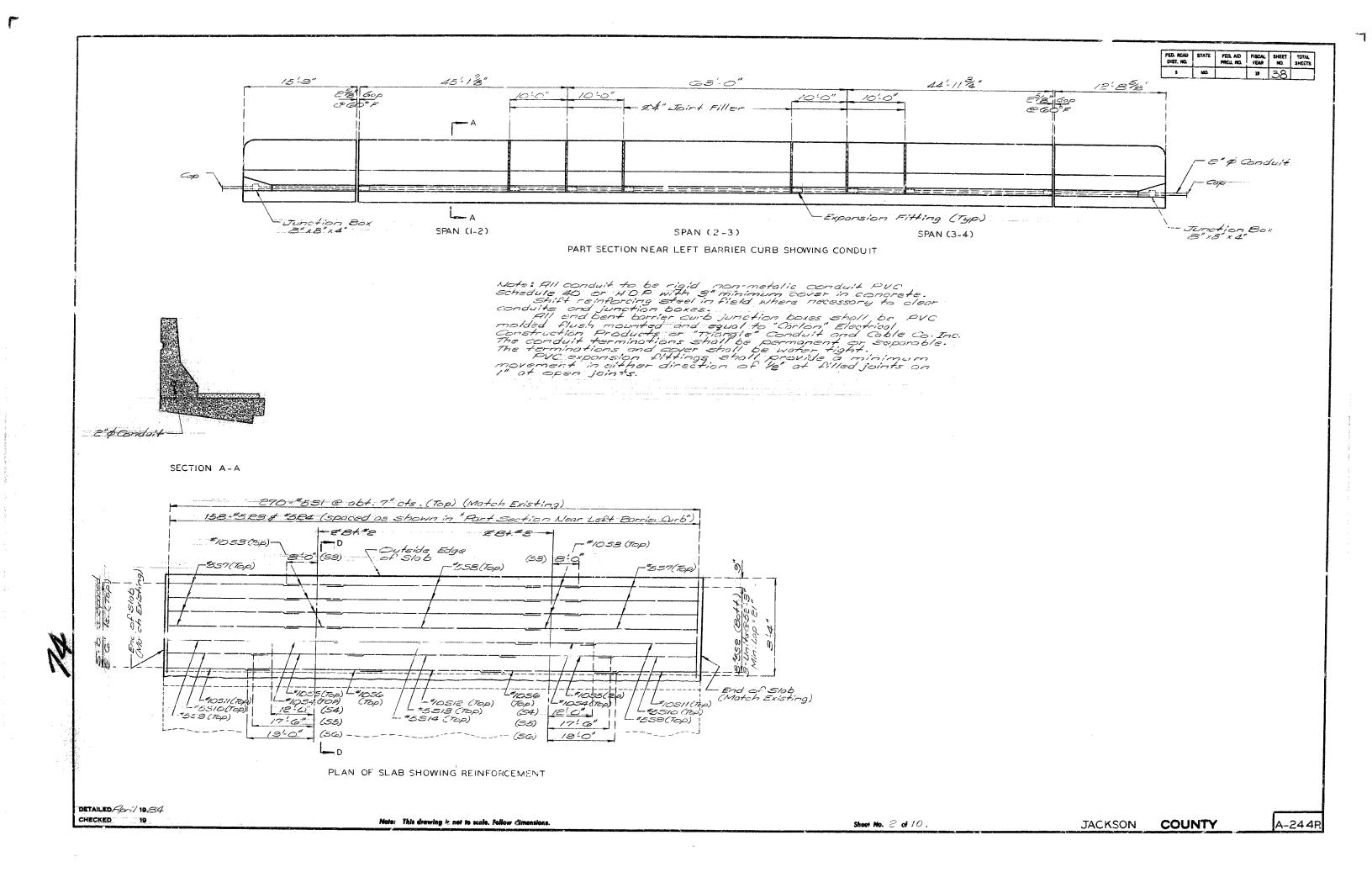
JACKSON

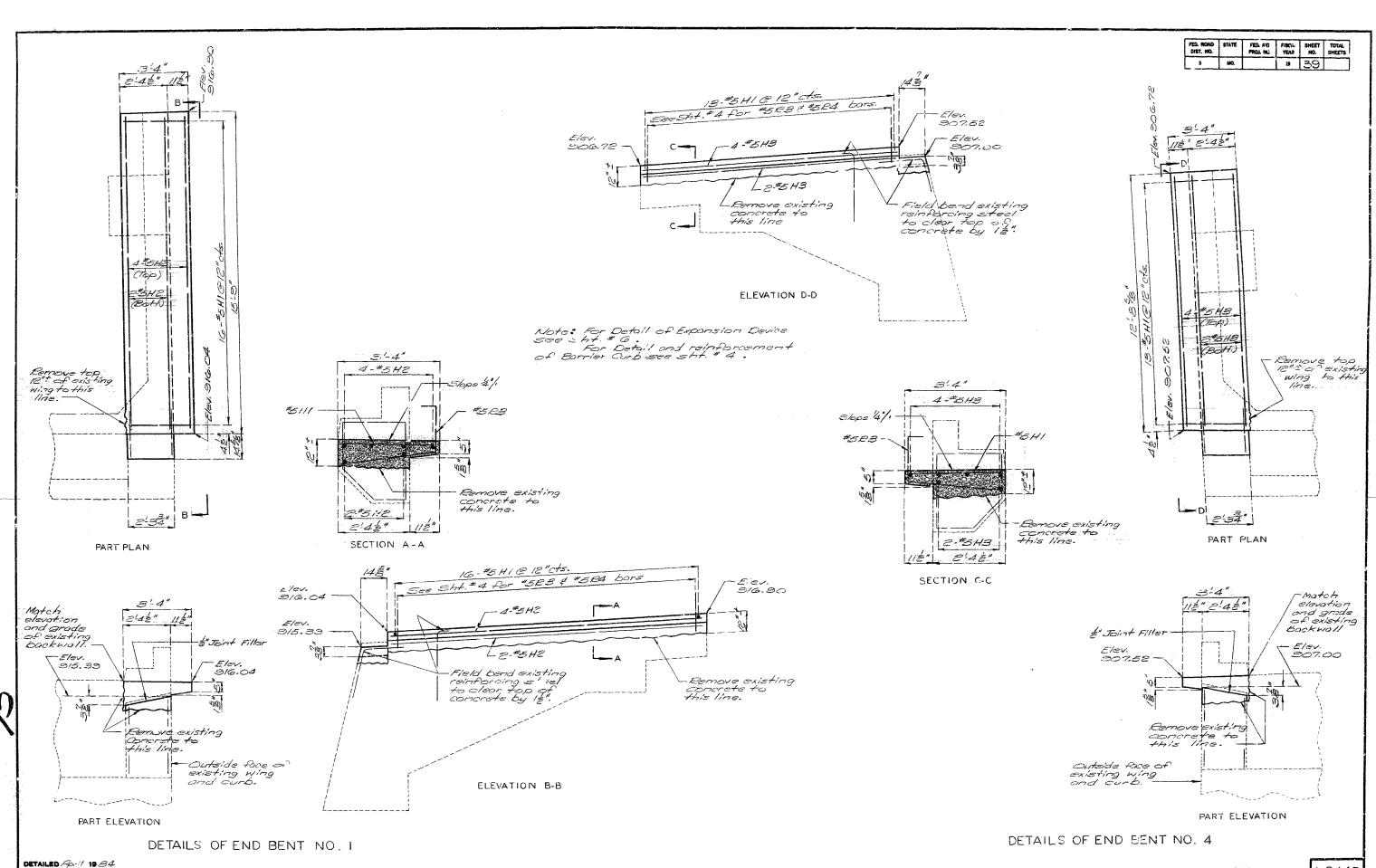
COUNTY

STD. 706.35 A-244R

STD. 706.30

STAGE FOUR



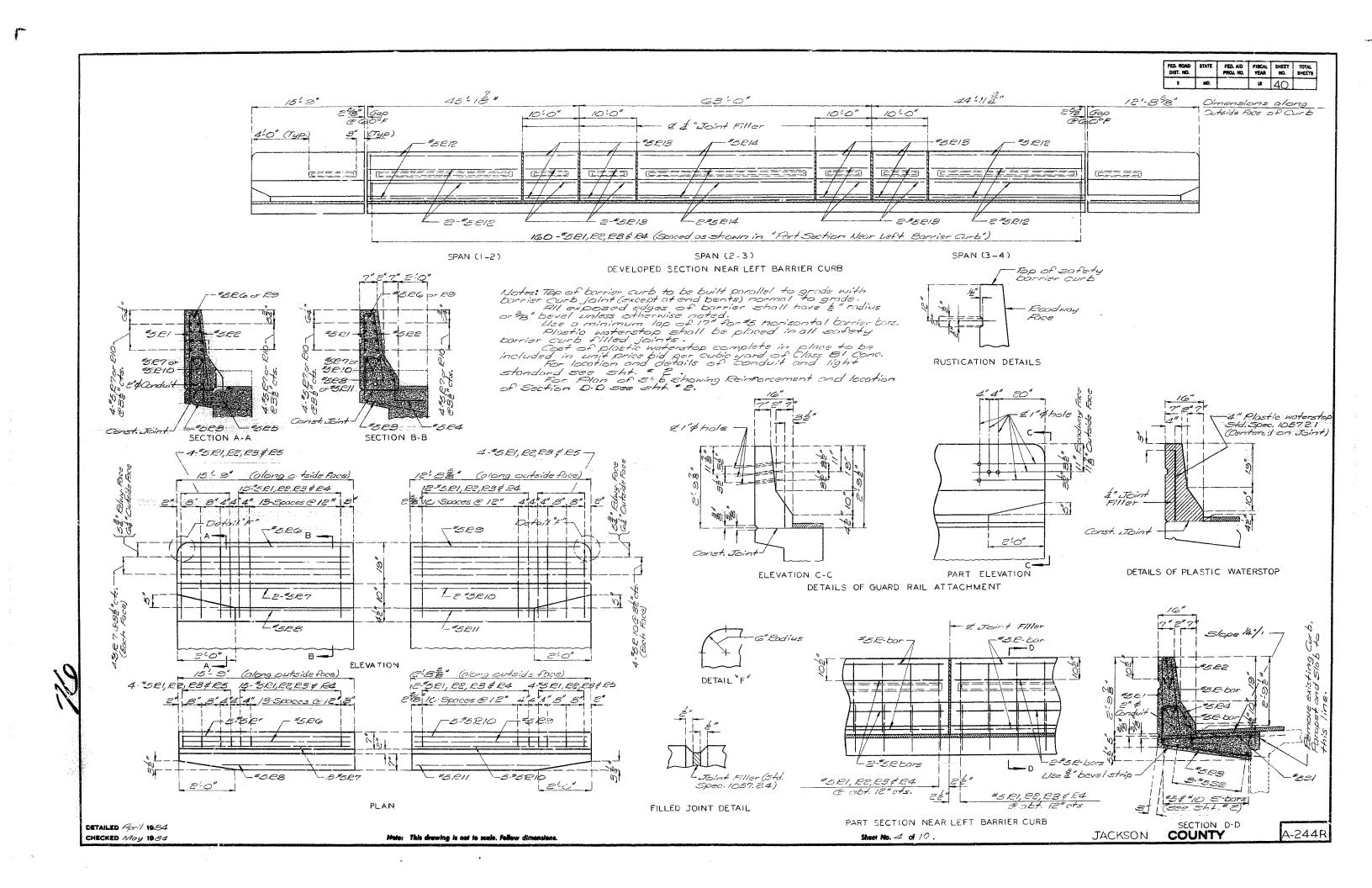


Sheet No. 3 of 10.

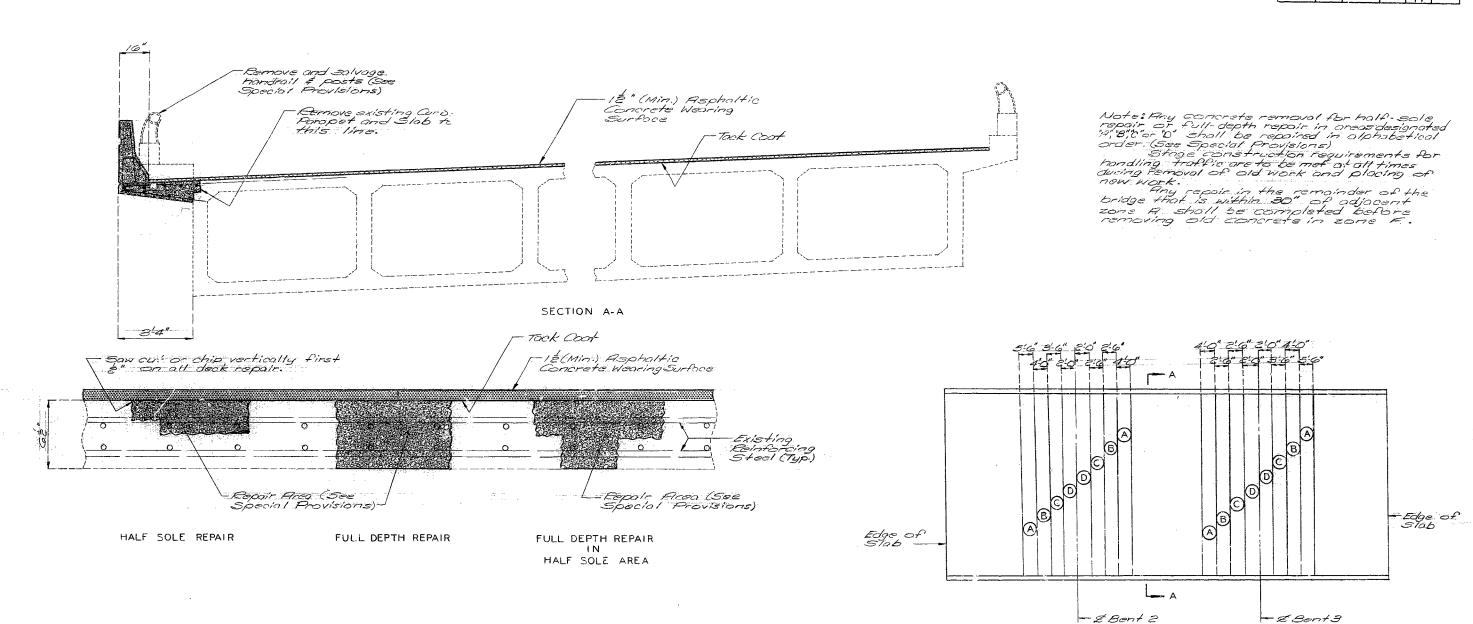
JACKSON COUNTY A-244R

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CHECKED May 1984



FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TUTAL
GIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
5	MO.		19	41	



DETAILED Goril 1984 CHECKED May 1884

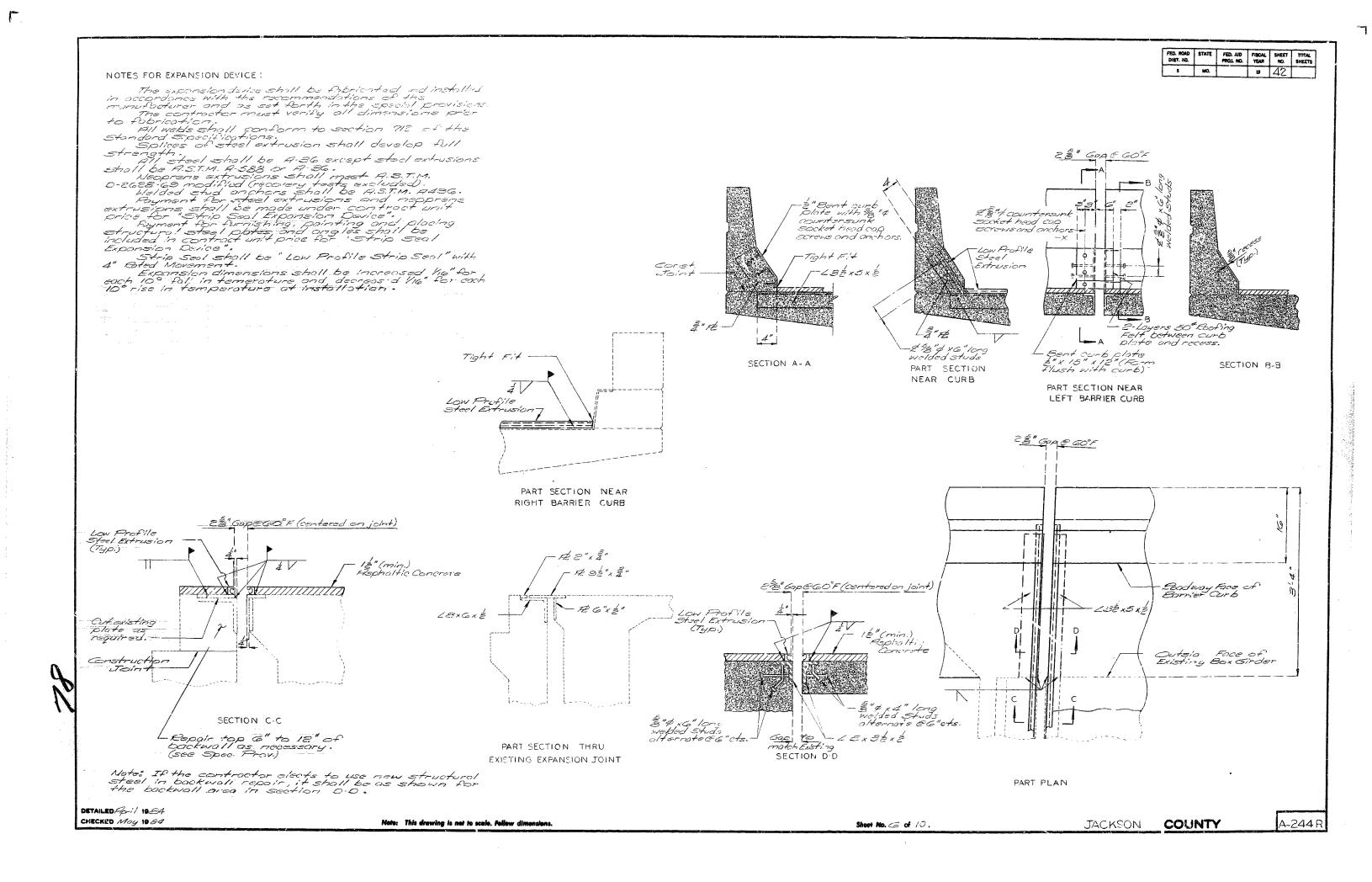
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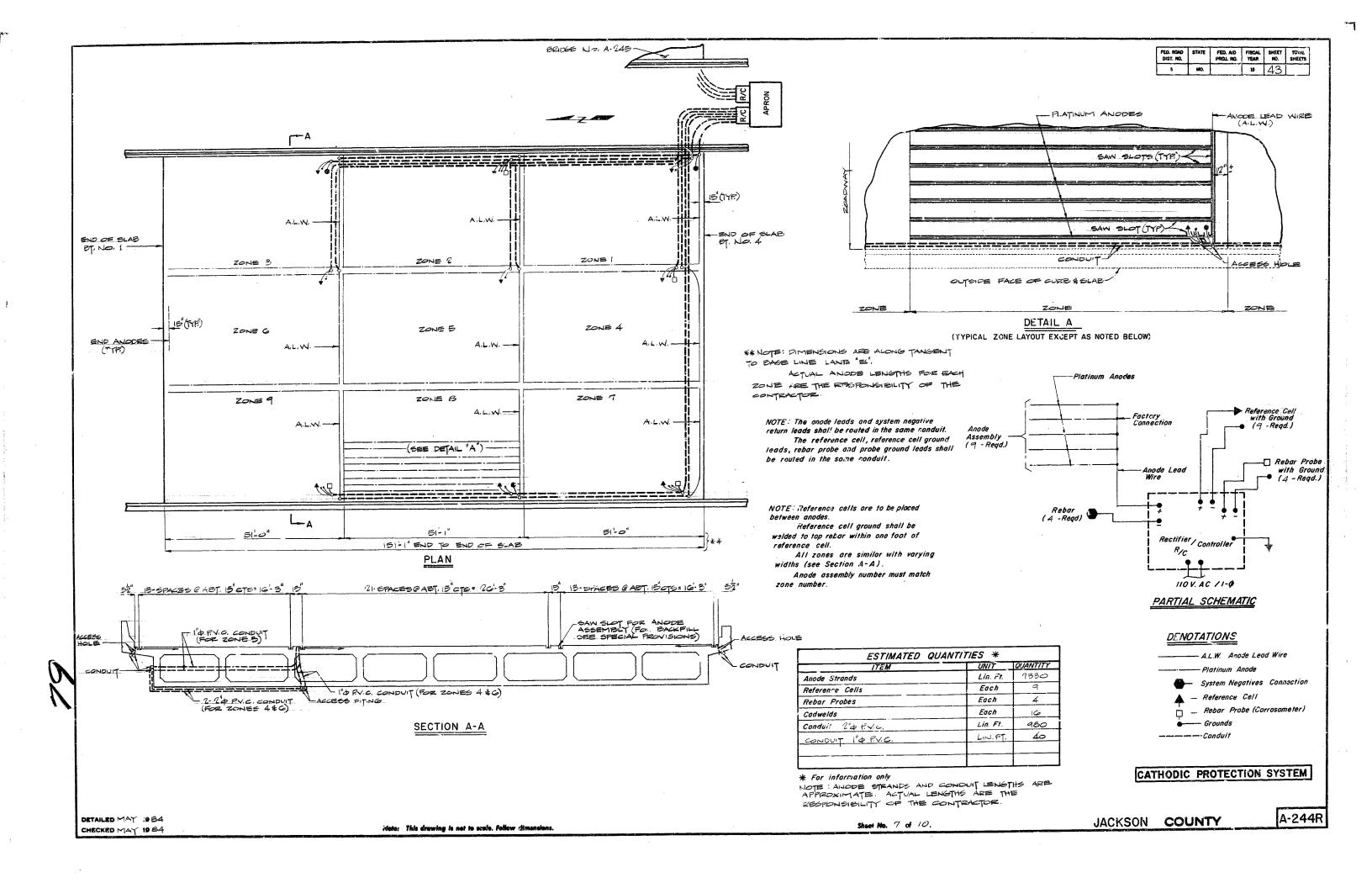
Sheet No. 5 of 10.

JACKSON COUNTY

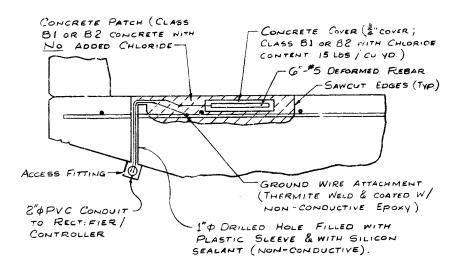
PLAN OF SLAB

A-244F

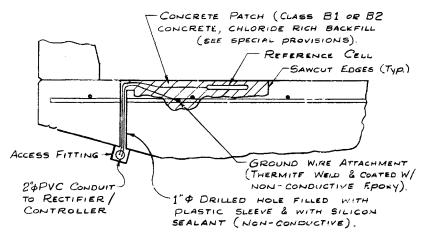




FED. ROAD	STATE	PEO. AID	FISCAL	SHEET	TOTIVE
DIST, NO.		PROJ. NO.	YEAR	NO.	SMEETS
3	960 .		19	44	

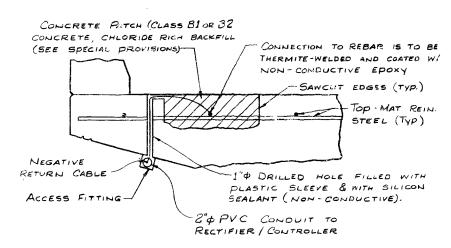


REBAR PROBE DETAILS

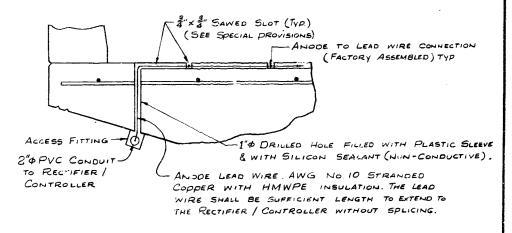


REFERENCE CELL DETAILS

MOTE: WEST CURB SHOWN, EAST CUEB SIMILAR.



SYSTEM NEGATIVES CONNECTION DETAIL



ANODE LEAD WIRE DETAIL

CHLORIDE CONTAMINATED CLASS B1 OR B2 CONCRETE -CONCRETE, CHLORIDE RICH BACKFILL (SEE SPECIAL PROVISIONS) CHLORIDE FREE CONCRETE SAWCUT $(T_{YP.})$ REBAR PROBE REFERENCE CELL 2" PVC CONDUIT 1" DRILLED HOLE

PLAN OF REBAR PROBE AND REFERENCE CELL

NOTES: CONDUIT SHALL BE SCHEDULE 40 HEAVY WALL PVC (POLYVINYL CHLORIDE PLASTIC).

CONDUIT SHALL BE SECURED TO CONCRETE WITH CLAMPS @ ABT. 5'CENTERS. WEEP HOLES SHALL BE PROVIDED AT APPROPRIATE LOCATIONS TO DRAIN ANY MOISTURE IN THE COMOUNT LINES. THE LOCATION AND DIRECTION OF CONDUIT MAY BE SHIFTED TO MEET FIELD CONDITIONS AS APPROVED BY THE ENGINEER. USE EXPANSION COUPLINGS AND ACCESS FITTINGS WHERE APPROPRIATE.

JACKSON

DETAILED JUNE 1984 CHECKED JUNE 1984

COUNTY

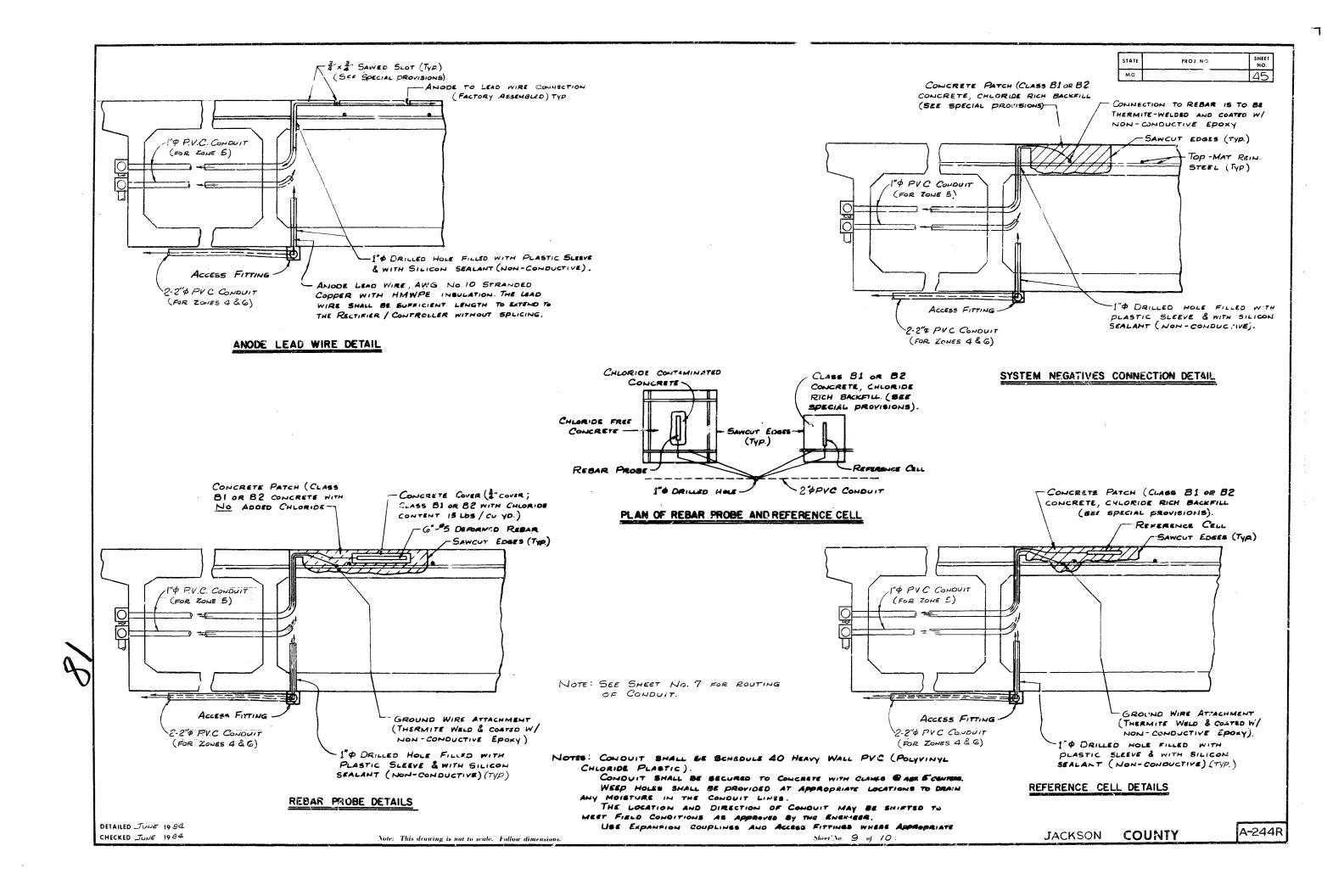
A-244F

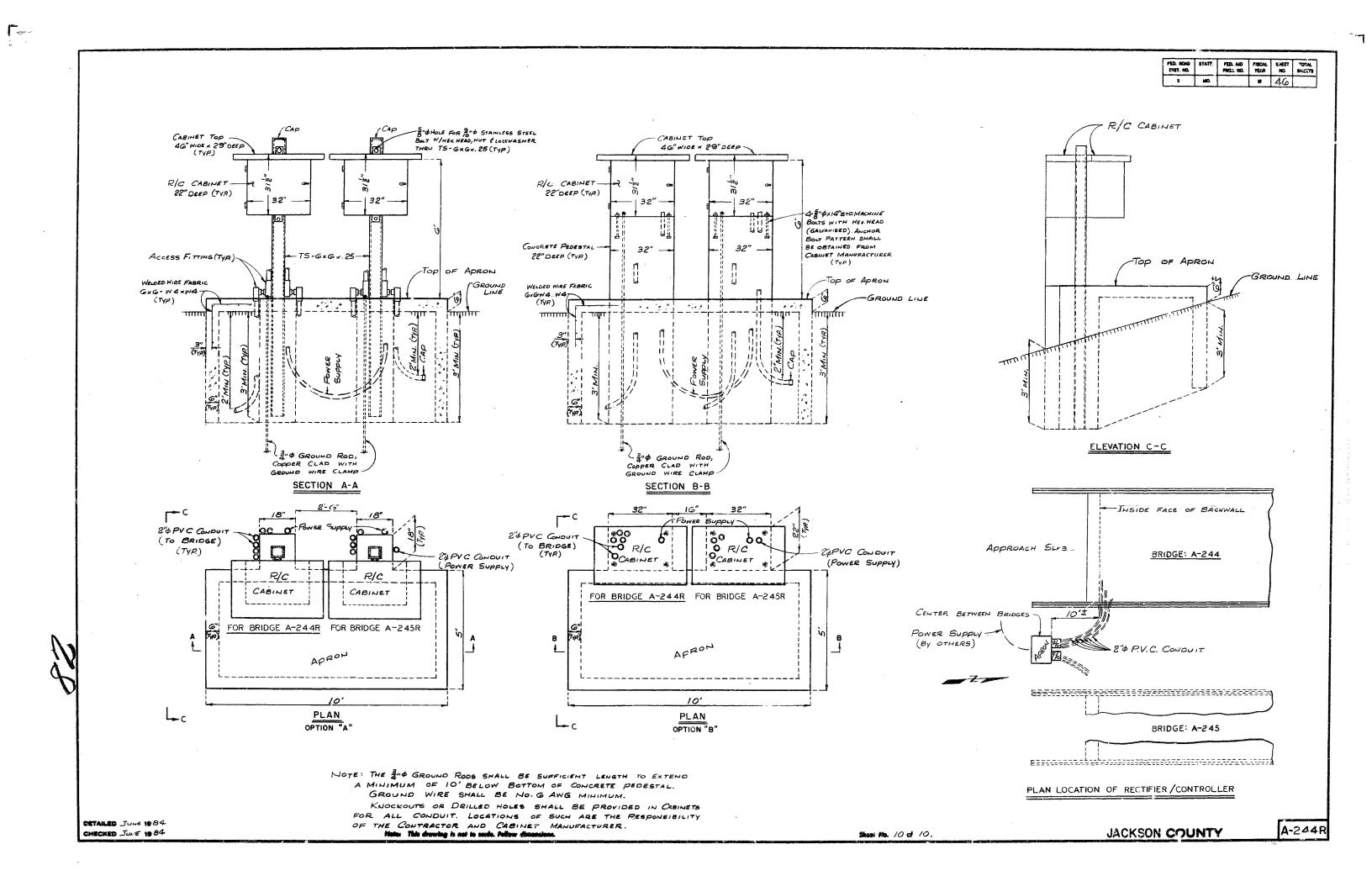
Note: This drawing is not to scale. Follow dis

Shoot No. 8 of 10.

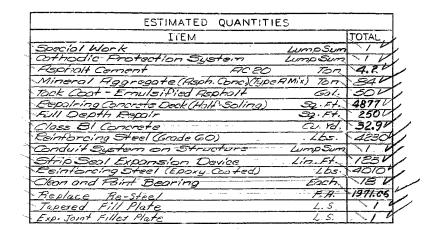
SEE SHEET NO. 7 FOR ROUTING

OF CONDUIT.

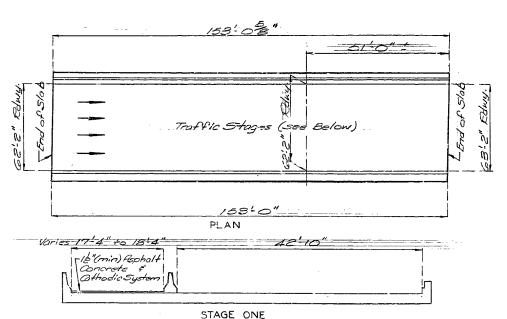




MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION



tock Coat shall be emulsified asphalt applied of o'rate of ocos gallons per square yords.



Varies 14' 10" +015'10" -E716" 15-4" -12"(min) Asphalt Cothodic System STAGE TWO Varies 42 4 +043 4" 11'4" - 1 = "(min.) Aspholt Concrete & Osthodic System

STAGE THREE

1	Varies G8'-2" to G8:5 T18" (min.) Aspro.14 Concrete & Cothodic System	
	Cothodic System	<u>\</u> _
	STAGE FOUR	

DESIGNED April 1984 DETAILED Ab-il 1984 CHECKED May 1984

Note: This drawing is not to scale. Follow dimensions

Sheet No. 14 et 10.

PED. AID FISCAL SHEET TOTAL PROJ. NO. YEAR NO. SHEETS 5 » 37 SEC./SUR. 5 TWP. 4.9 RGE 33

GENERAL NOTES!

FINAL POST

Design Specifications: A.A.S.H.T.O. 1977 and Interims thru 1982

Design Unit Stresses:

Class Bl. Concrete

F'6=4000 psi

Reinforcing Steel (Grade GO)

121=60,000 psi

Joint Filler: All joint filler shall meet the requirement of 5+d. Spec. 1057.2.4 except as noted.

Reinforcing Steel: Minimum clearance to reinforcing steel shall be le" unless otherwise shown.

Traffic: Traffic over structure to be maintained during construction.

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

Bars bonded in old concrete not removed shall be cleanly st-ipped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bors.

motch 12" + bridge overlay (Rodway Hern)

Construction Clearance: A minimum vertical clearance of 18' 6" from crown of existing lones and a minimum lateral clearance of 82'0" Normal to 12th Street centered on existing lanes shall be maintained during construction.

REPAIRS TO

BRIDGE : LANE C OVER 12TH STREET

STATE ROAD : MIDTOWN FREEWAY

IN KANSAS CITY

PROJECT NO. I-IR-70-1 (101) STA. 32 +03.61

JOB NO. 4-1070-450

RTE. I-70

COUNTY

STD. 706.35 A-244R

STD. 706.30

JACKSON DATE 6/29/84

BILL OF REINFORCING STEEL

3'1"

R3

Varies

All dimensions for E-bors are out to out.
Hooks and bends shall be in accordance with the
CESI Manual of Standard Practice for Detailing
Reinforced Concrete Structures stirrup and tie

dimensions.

Actual lengths of reinforcing bars are measured along centerline bar and to nearest inch.

5 R-bars shall be epoxy coated.

** Two additional bars are included for testing.

R6 THRU R14

HI THRU H3 SI THRU SI4

BENDING DIAGRAM

Ŕ2

R5

R 4

LENGTH

195 5 El 2'- 8 542

195 5 E2 2'- 9° 559 195 5 E3 4'-10" 983

187 5 B4 3: 0" 585

8 5 85 2'-9' 23

10 5 R7 15'- 5" 'G1

1 5 R8 13'-9" 14 1 5 R9 12'-0" 13

10 5 810 12'-5" 130 3 5 811 10'-9" 34 12 5 818 34-9" 454 24 5 818 3'-9" 844

6 5 RI4 42'-9" 268

6 0 514 46 - 0 500 270 551 3 6 986 9 552 52 3 490 8 1053 15 0 516

2 1054 21-6" 185

2 1055 31-0" 267 2 1056 38:0" 327 8 557 38:8" 323 4 558 52-4" 218

2 5 59 34'-8" 78

2 5510 29"1" 61

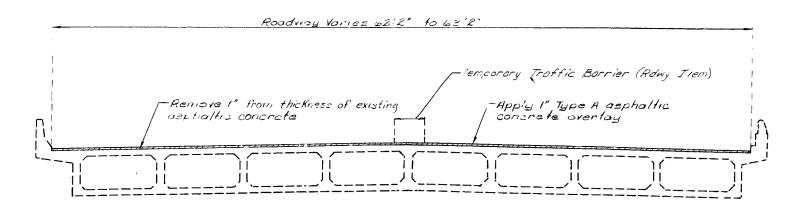
2 10511 31 5" 270 1 10512 35 10" 154

1 553 39-4" 41 1 5514 47-4" 49 29 5 HI 3'- 1" 95 G 5 H2 15'- 6" 97 G 5 H3 12'-5" 78

dimensions.

1 5 RG 15'-0" 16

STATE	PROJ NO				ľ	HEET	
MO	. /	7	9 ()	1201		T	-
SEC/	SUR	5	Tw	P 49N	RGE	33	W



SECTION THRU SLAB

GENERAL NOTES:

Existing Work
Outline of old work is indicated by light
dashed lines. Heavy lines indicate new work,

Traffic Maintained
Maintain three lanes of traffic over
structure during construction. (See roadway plans)

In order to maintain grade and a minimum thickness of overlay as shown on plans it may be necessary to use additional quantities of overlay at various locations throughout the structure. No payment will be allowed for additional labor, materials or equipment for variations in thickness of overlay.

The top slab of this structure has an existing cathodic protection system in service. The contractor is cautioned to use extreme caution to prevent damage to any component of this system.

Note: Roadway surfacing adjacent to bridge ends to match top of concrete wearing surface (Rdwy Item).

ESTIMATED QUANTITIES		
ITEM		TOTAL
Asphalt Cement ()	Ton	3.0
Mineral Aggregate 8	Ton	5රි
Removal of exist bituminous povement 3	59. Yd.	1058

(1) (Asphaltic Concrete) 60-70 or AC-20 (Type A Mix)
(2) (Asphaltic Concrete) (Type A Mix)
(3) (Cold Milling)

REPAIRS TO

BRIDGE: LANE C OVER 12TH STREET

STATE ROAD: MIDTOWN FREEWAY

IN KANSAS CITY

JOB NO. J410991

PROJECT NO. F.A.I-70-1(160) STA. 31+25.86 & LANE C

DETAILED DEC. 1991 CHECKED JUNE 992

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

SEE FINAL PLANS

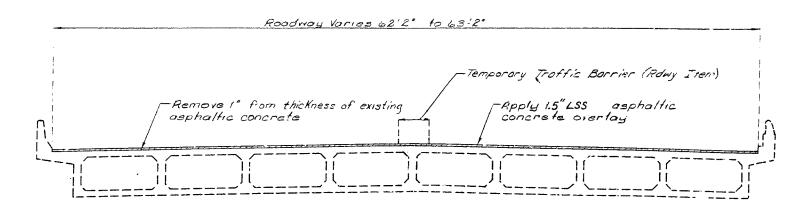
CATE 9/4/92 JACKSON Sheet No. / of /

RTE. I-70

COUNTY

A-244 R1

STATE MO F.A.I-70-1 (160) 110 SEC/SUR 5 TWP 49N RGE 33W



SECTION THRU SLAB

GENERAL NOTES:

Existing Work
Outline of old work is indicated by light
dashed lines. Heavy lines indicate new work.

Traffic Maintained. Maintain three lones of traffic over structure during construction. (See roadving plans)

In order to maintain grade and a minimum thickness of overlay as shown on plans it may be necessary to use additional quantities of overlay at various locations throughout the structure. No payment will be allowed for additional labor, materials or equipment for variations in thickness of overlay.

The top slab of this structure has an existing cathodic protection system in service. The contractor is cautioned to use extreme contion to prevent domage to any component of this system.

Note: Roadway surfacing adjacent to bridge ends to match top of concrete wearing surface (kdwy Item).

FINAL QUANTITIE	S	
ITEM		TOTAL
Asphalt Cement ()	Ton	V5.1
Mineral Bonregate &	Ton	91
Removal of exist bituminous pavement	3 50. Yd.	4058-

() (Asphaltic Concrete) () (Asphaltic Concrete)(LSS) () (Cold Milling)

AC-20

REPAIRS TO

BRIDGE: LANE C OVER 12T' STREET

STATE ROAD: MIDTOWN FREEWAY

IN KANSAS CITY

PROJECT NO. F.A.I-70-1(160) STA. 31+25.86 & LANE C

JOB NO. J410991

RTE. - 1-70

A-244 R1

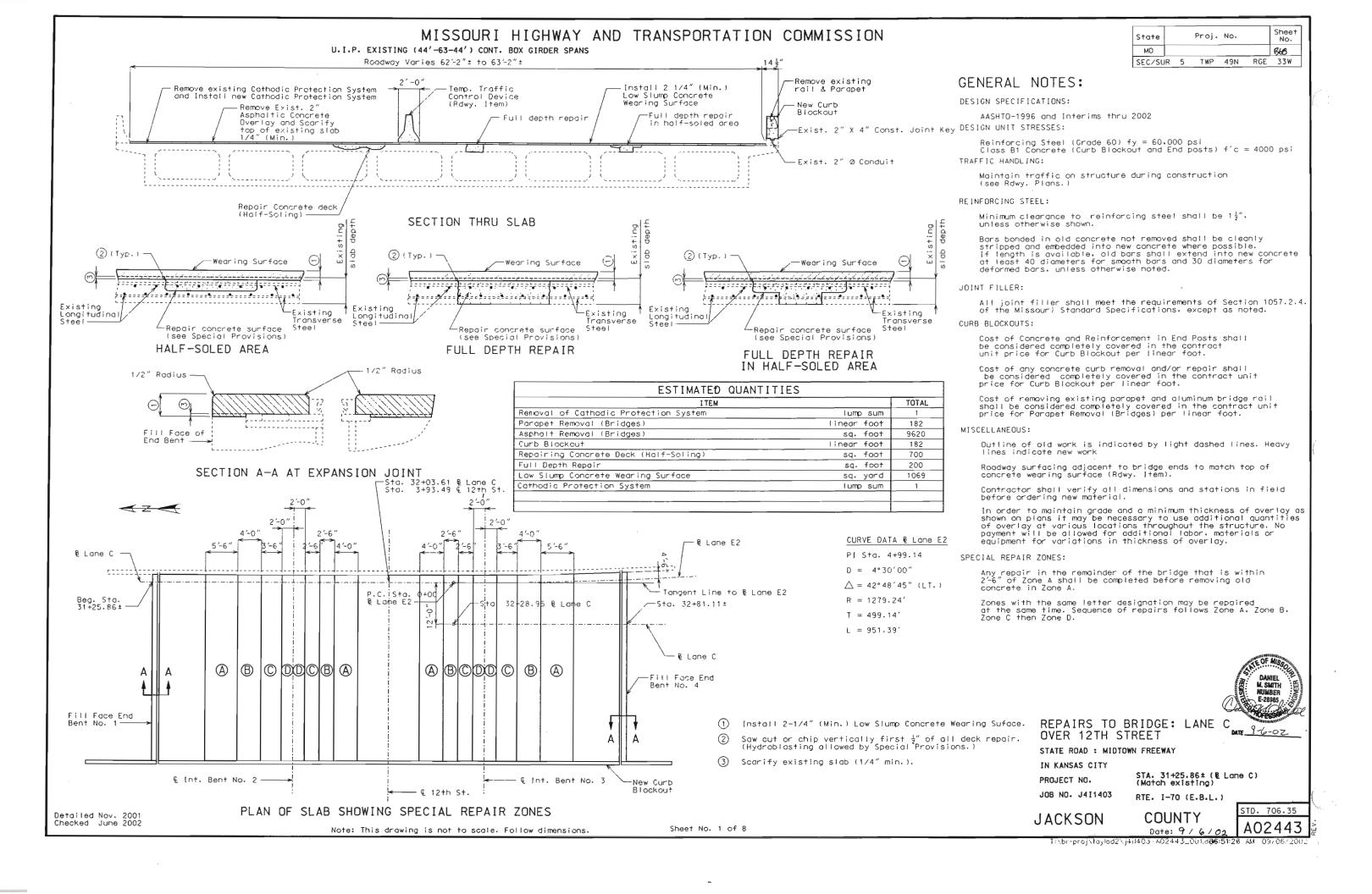
DETAILED DEC. 1991 CHECKED JUNE 1992

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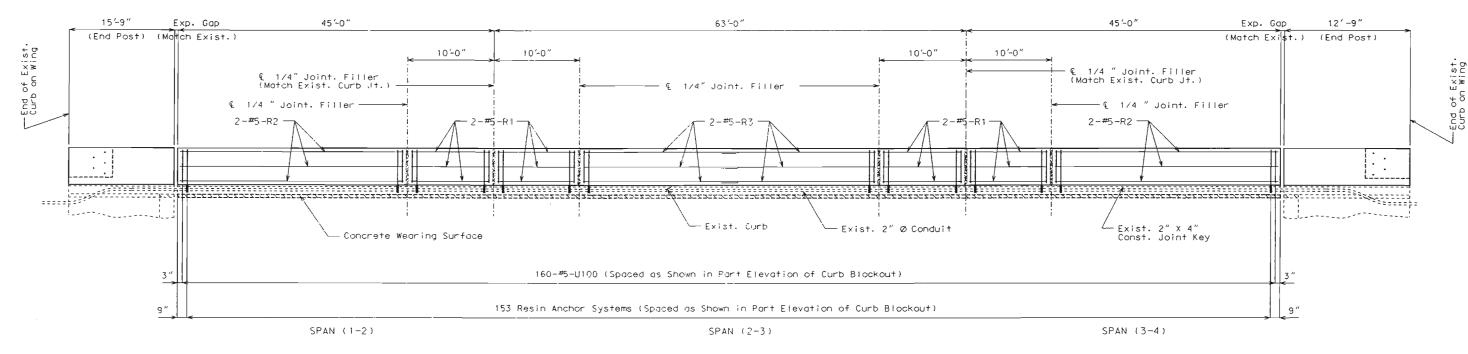
Sheet No. 1 A of 1

DATE 9/4/92 JACKSON

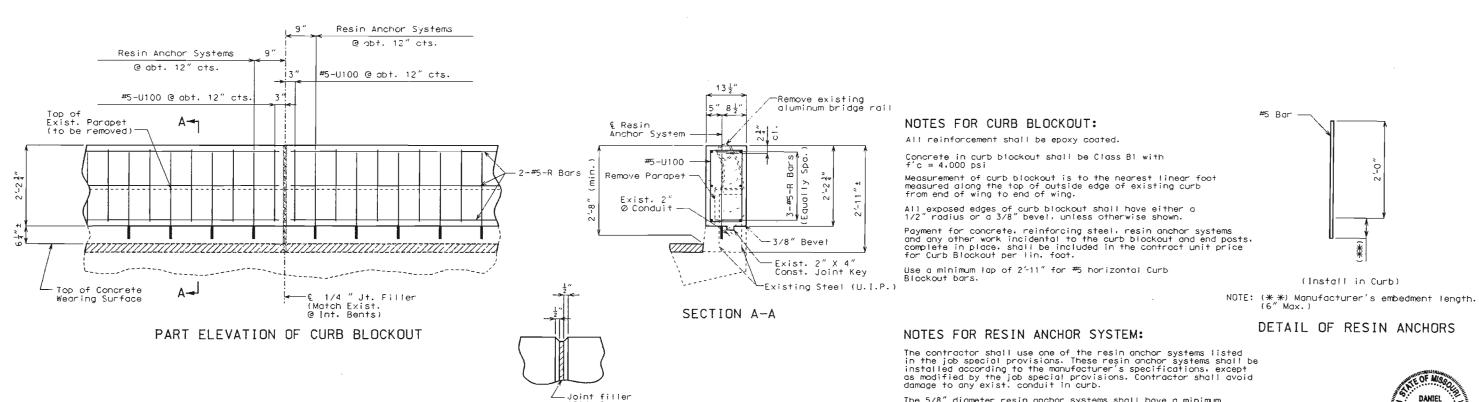
COUNTY



State Proj. No. Sheet No. MD G69



ELEVATION OF CURB BLOCKOUT



FILLED JOINT DETAIL

DETAILS OF CURB BLOCKOUT

The 5/8" diameter resin anchor systems shall have a minimum ultimate pullout strength of 15.500 lbs. in concrete with f'c = 4.000 psi (See Special Provisions).

Cost of furnishing and installing the onchor system complete in place shall be included in the price bid for Curb Blockout.

An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the 5/8 $^{\prime\prime}\text{Ø}$ threaded rod stud.



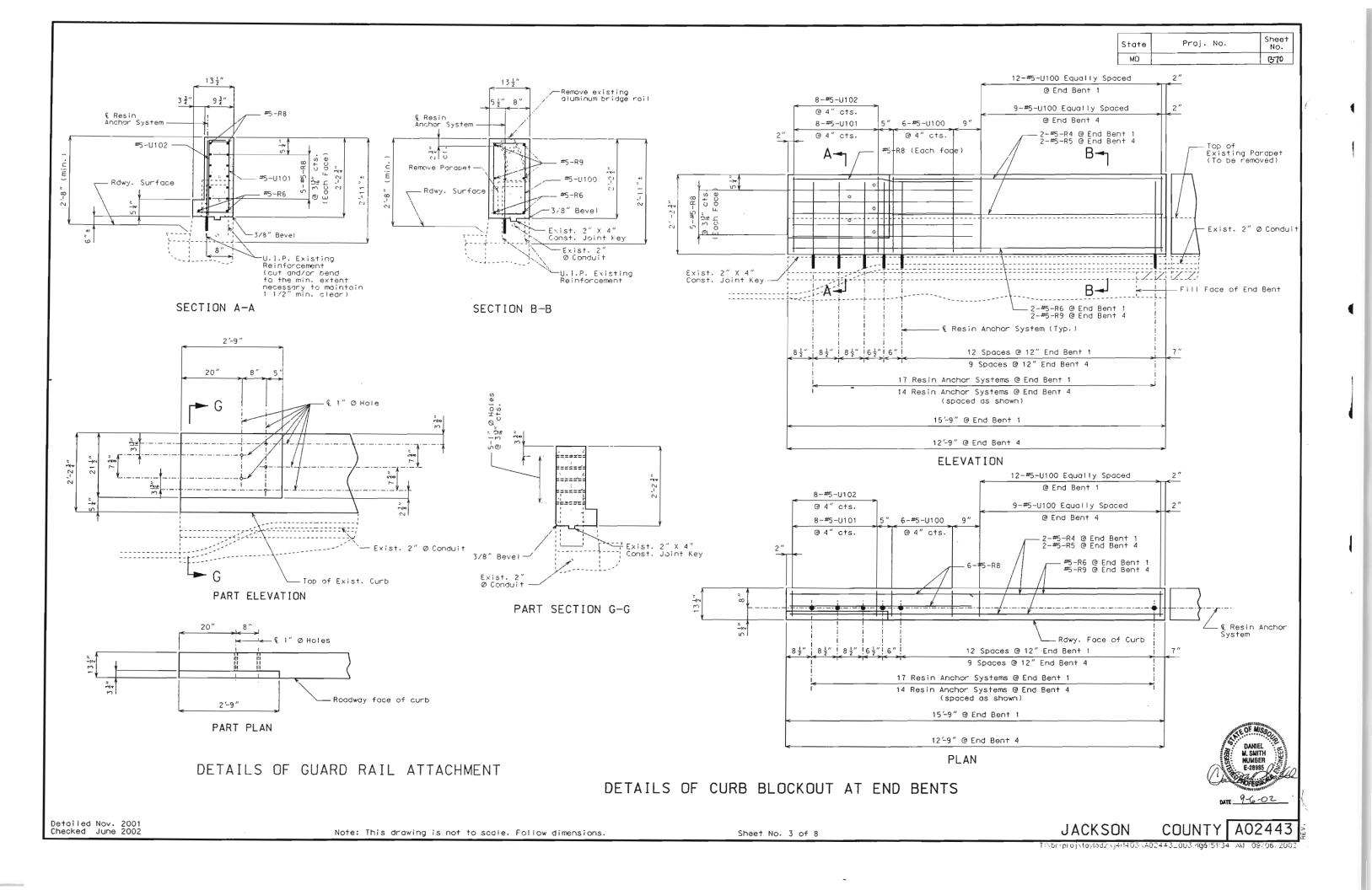
Detailed Nov. 2001 Checked June 2002

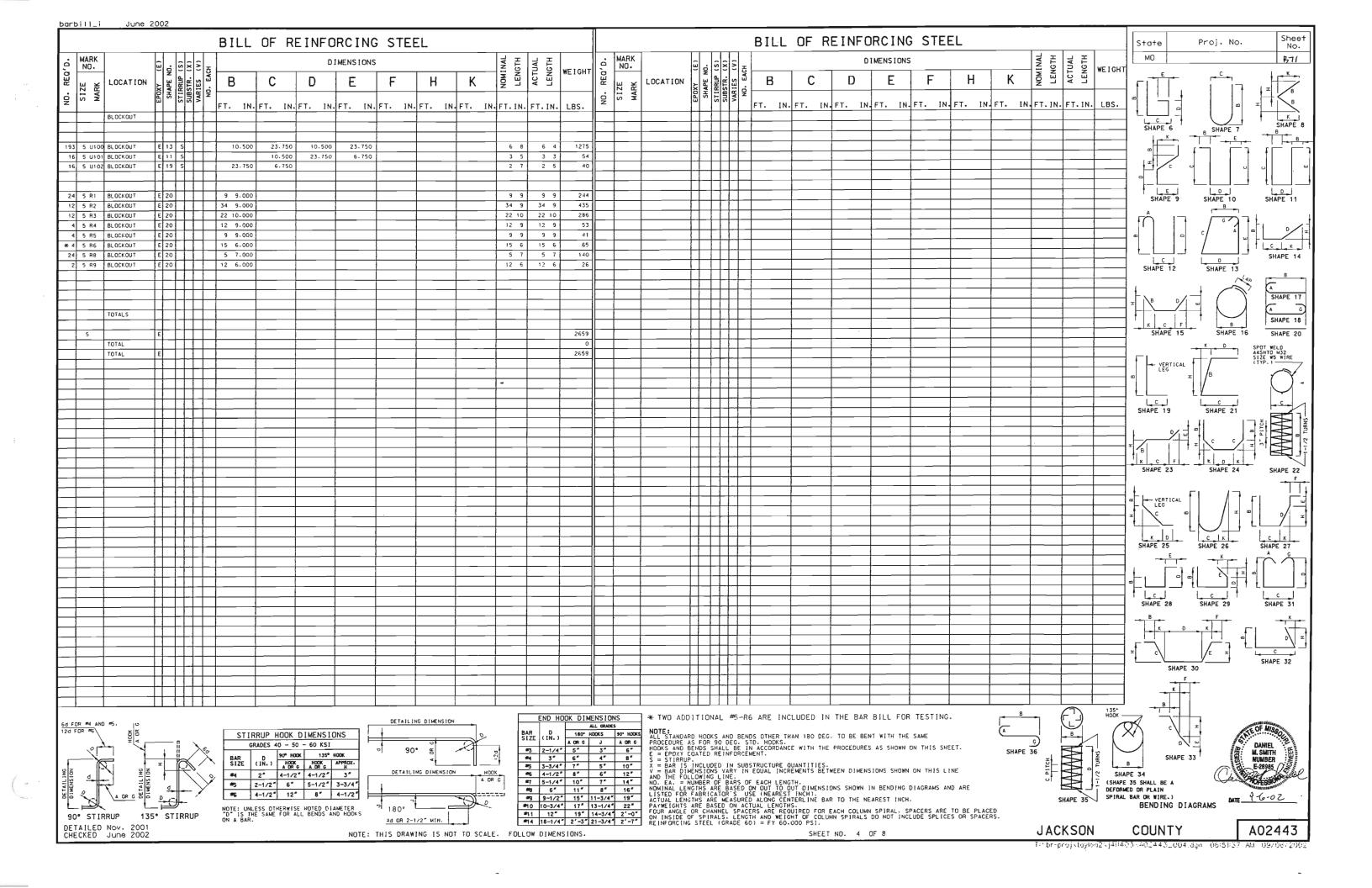
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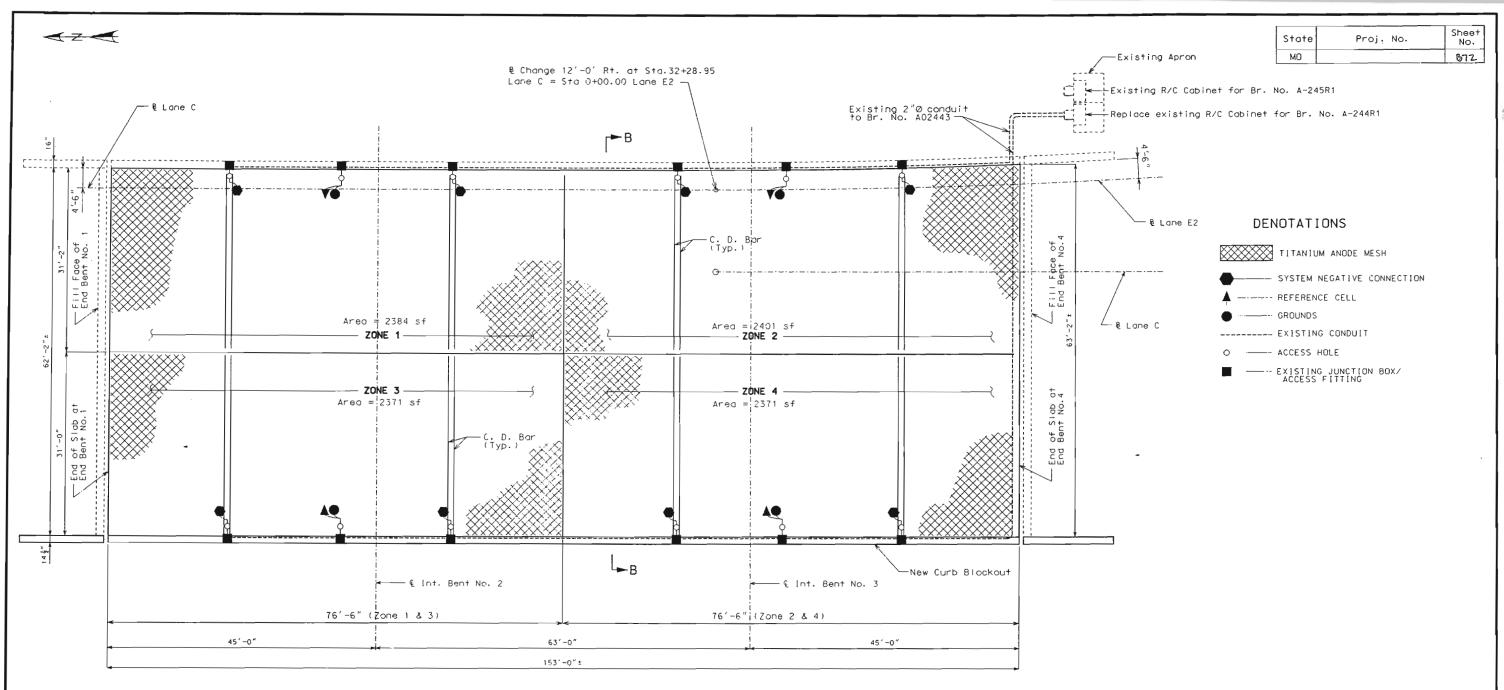
Sheet No. 2 of 8

JACKSON

COUNTY A02443







PART PLAN OF SLAB SHOWING TITANIUM MESH CATHODIC PROTECTION SYSTEM

ESTIMATED QUANTITIES	ESTIMATED QUANTITIES For Information on		
ITEM	UNIT	QUANTITY	
Titanium Anode Mesh (Elgard 210)	Sq. Feet	9527	
Reference Cells	Each	4	
Thermite Welds	Each	12	

Note: No direct payment shall be made for any additional conduit, junction boxes, access fittings, additional material, labor and modification to existing conduit.

NOTE:

Reference cells are to be placed at approximate ξ of zone length as determined by the engineer.

Current Distribution Bars (C.D. Bar) to be placed near 1/4 point of Zones.

For Section B-B Thru Slab, typical zone layout and partial electrical schematic, see sheet no. 6.

Existing overlay and cathodic protection system shall be removed and the original deck scarified prior to installation of new Cathodic Protection System (see special provisions).

NOTE

Replace existing R/C Cabinet with new enclosure, mounted on existing apron and meeting required manufacturer's specifications and all local electrical codes.

Use existing conduit and appurtenances, with the approval of the Engineer, as shown on the plans. All existing conduit and appurtenances not used with the new Cathodic Protection System shall be removed from the Structure.

The anode leads, system negative return leads, reference cell and reference cell ground lead shall be routed in one of the existing conduits.

The telephone cable shall be routed into the rectifier through one of the unused existing conduits.

The reference cell ground lead shall be welded to the top rebar within 12 $^{\prime\prime}$ of the reference cell.

Anode assembly number must match zone number.

Existing access holes through deck not used with the new cathodic protection system shall have its plastic sleeve and silicone sealant removed, hole cleaned and plugged with a nonmetallic expansive mortar in accordance with Std. Spec. 1066.

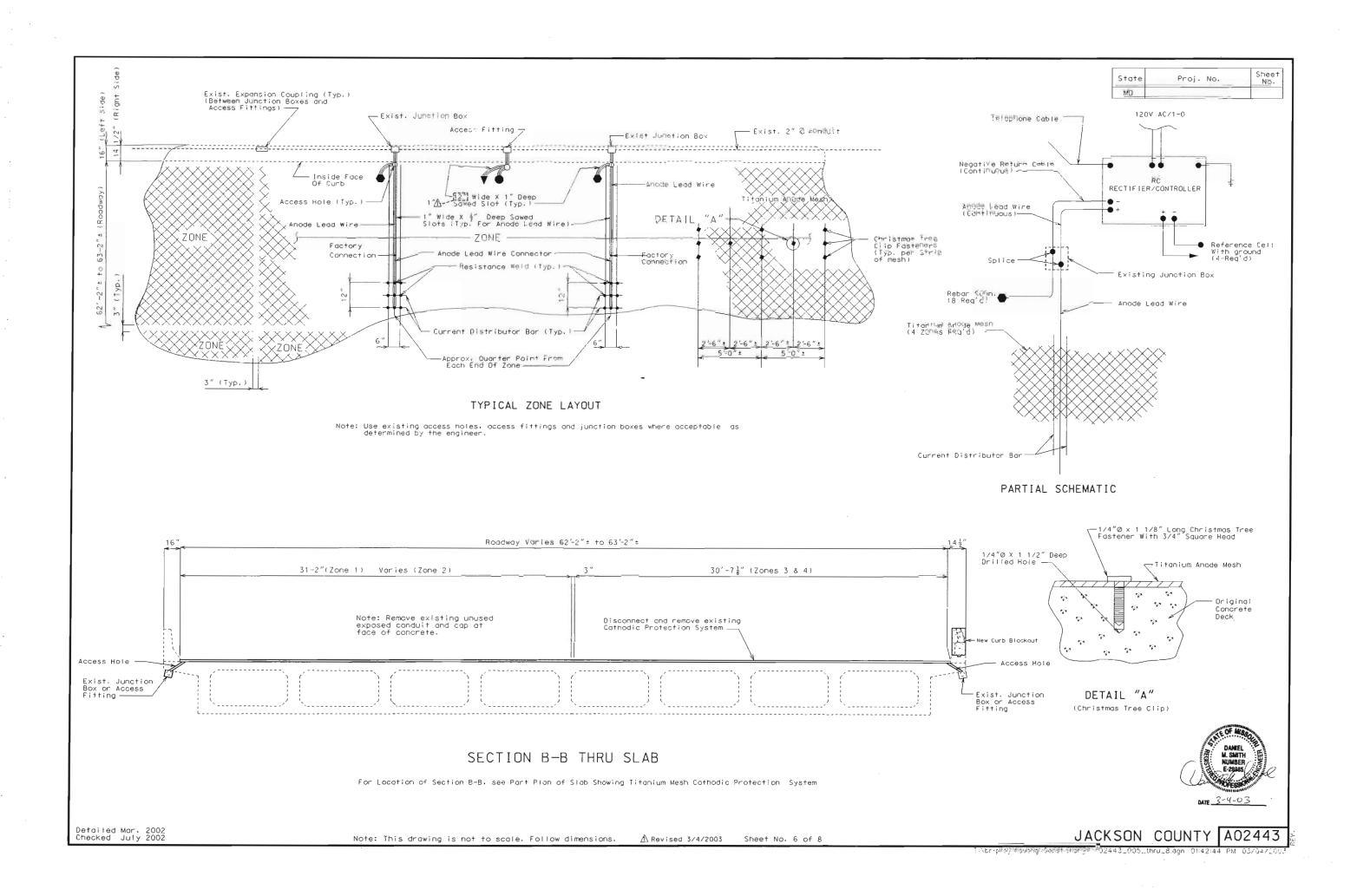


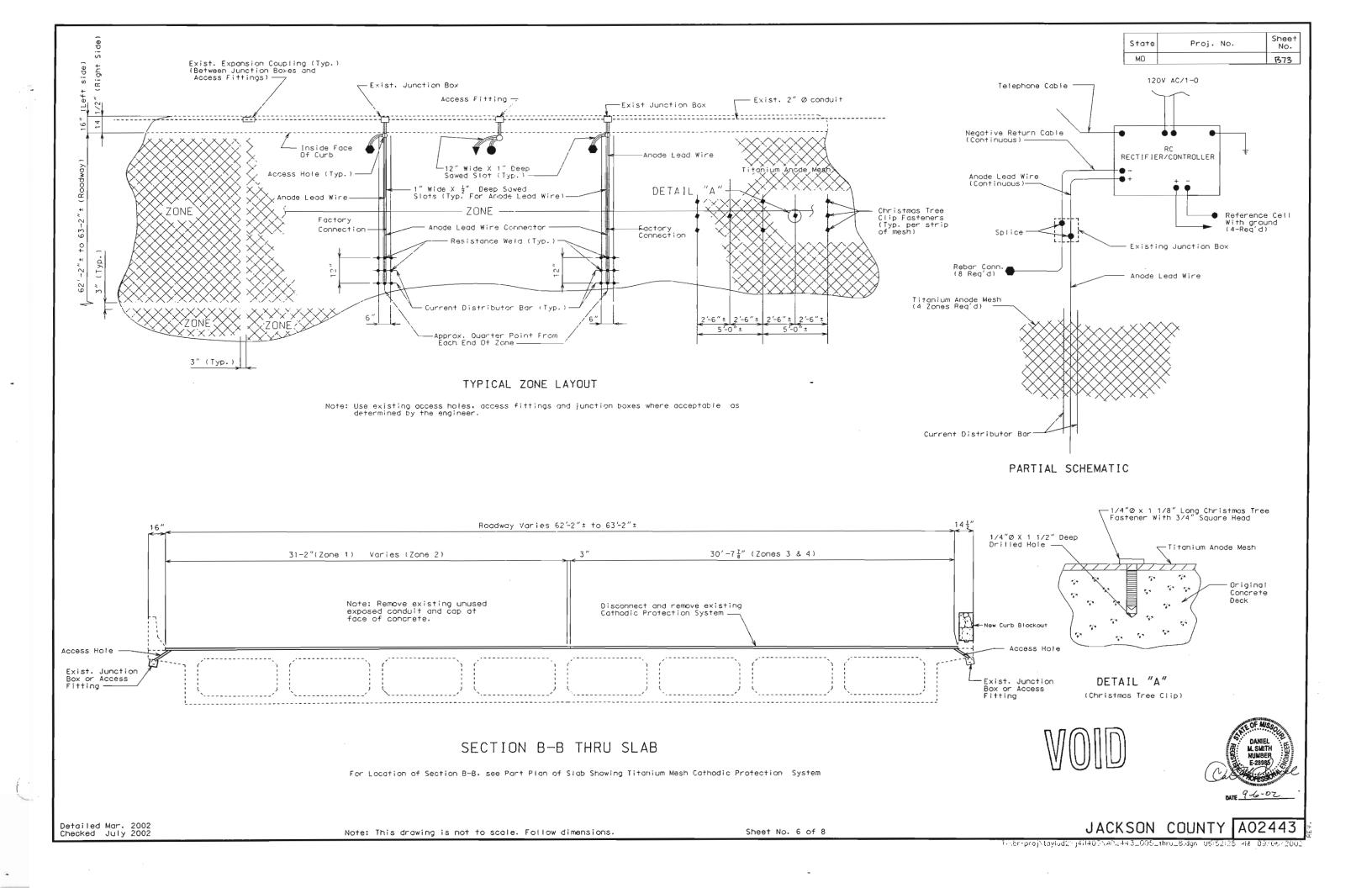
Detailed Mar. 2002 Checked July 2002

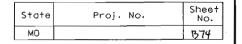
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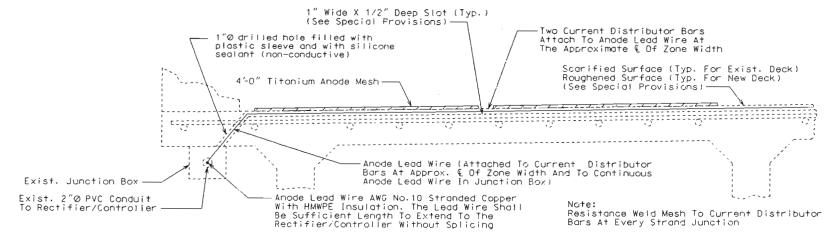
Sheet No. 5 of 8

JACKSON COUNTY A02443

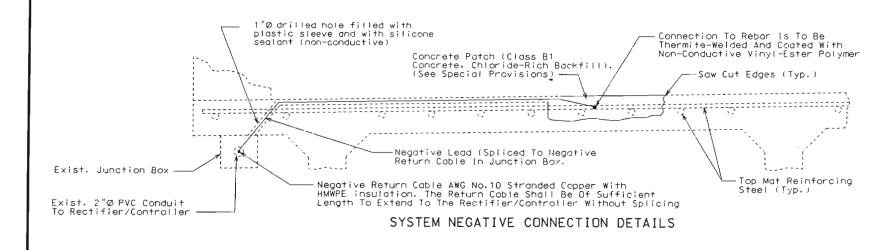


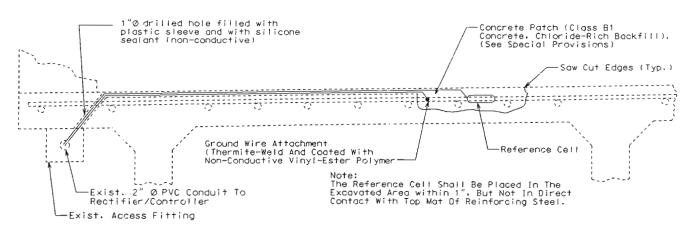






TITANIUM ANODE MESH DETAILS





REFERENCE CELL DETAILS

All concrete removal shall be intiated by saw cutting the first 1/2".

Notes for New Conduit and Appurtenances (if required by Engineer): Conduit shall be schedule 40 heavy wall PVC (Polyvinyl Chloride Plastic). Each section of conduit shall bear the underwriters laboratories, inc. (UL) label.

Conduit shall be secured to concrete with clamps (galvanized/AASHTO M111) at abt. 5'-0" cts. Concrete anchors for clamps shall meet federal specification FF-S-325, group II. type 4. class I and shall be galvanized in accordance with ASTM A-153, B695-91 class 50 or stainless steel. Minimum embedment in concrete shall be 1 3/4". The supplier shall furnish a manufacturer's certification that the concrete anchors meet the required material and galvanizing specifications.

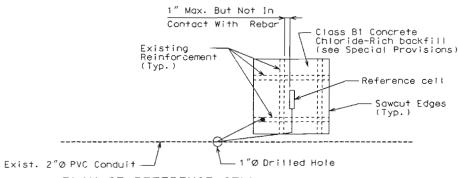
Weepholes shall be provided at appropriate locations to drain any moisture in the conduit lines.

Expansion couplings shall be installed on conduit lines between all junction boxes and access fittings as approved by the engineer.

The location and direction of conduit may be shifted to meet field conditions as directed by the engineer.

All junction boxes shall be PVC molded, surface mounted, size $8" \times 8" \times 7"$ and equal to Carlon Electrical Construction products or Triangle Conduit and Cable company Inc.. The terminations shall be permanent or separable.

The terminations and covers shall be of watertight construction.



PLAN OF REFERENCE CELL

Note: The 3/4"Ø ground rod shall be of sufficient length to extend a minimum of 10'0" below bottom of concrete pedestal. (Use existing if approved by the engineer).

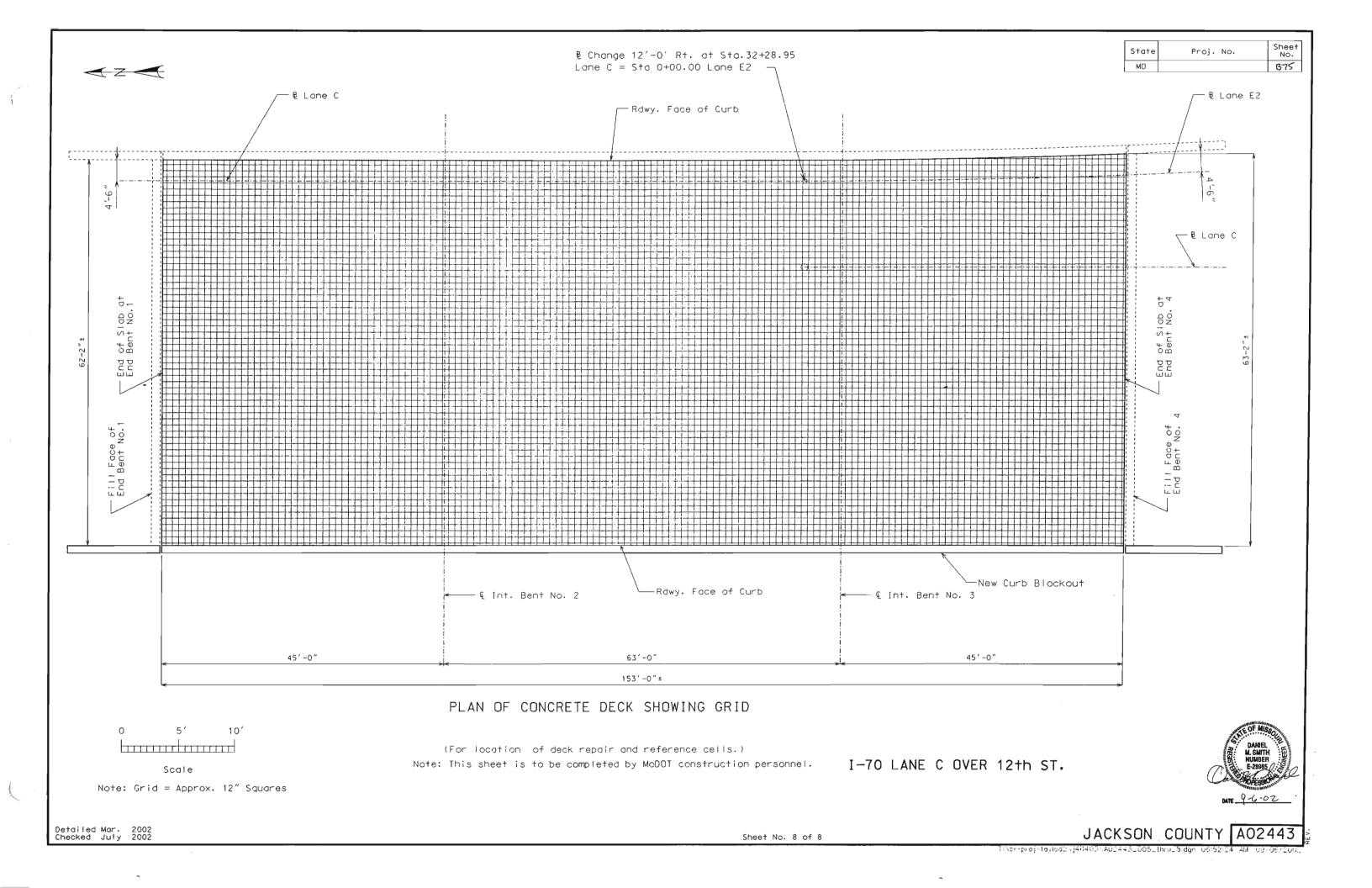
Ground wire shall be AGW No.6 minimum (Use existing if approved by the engineer).

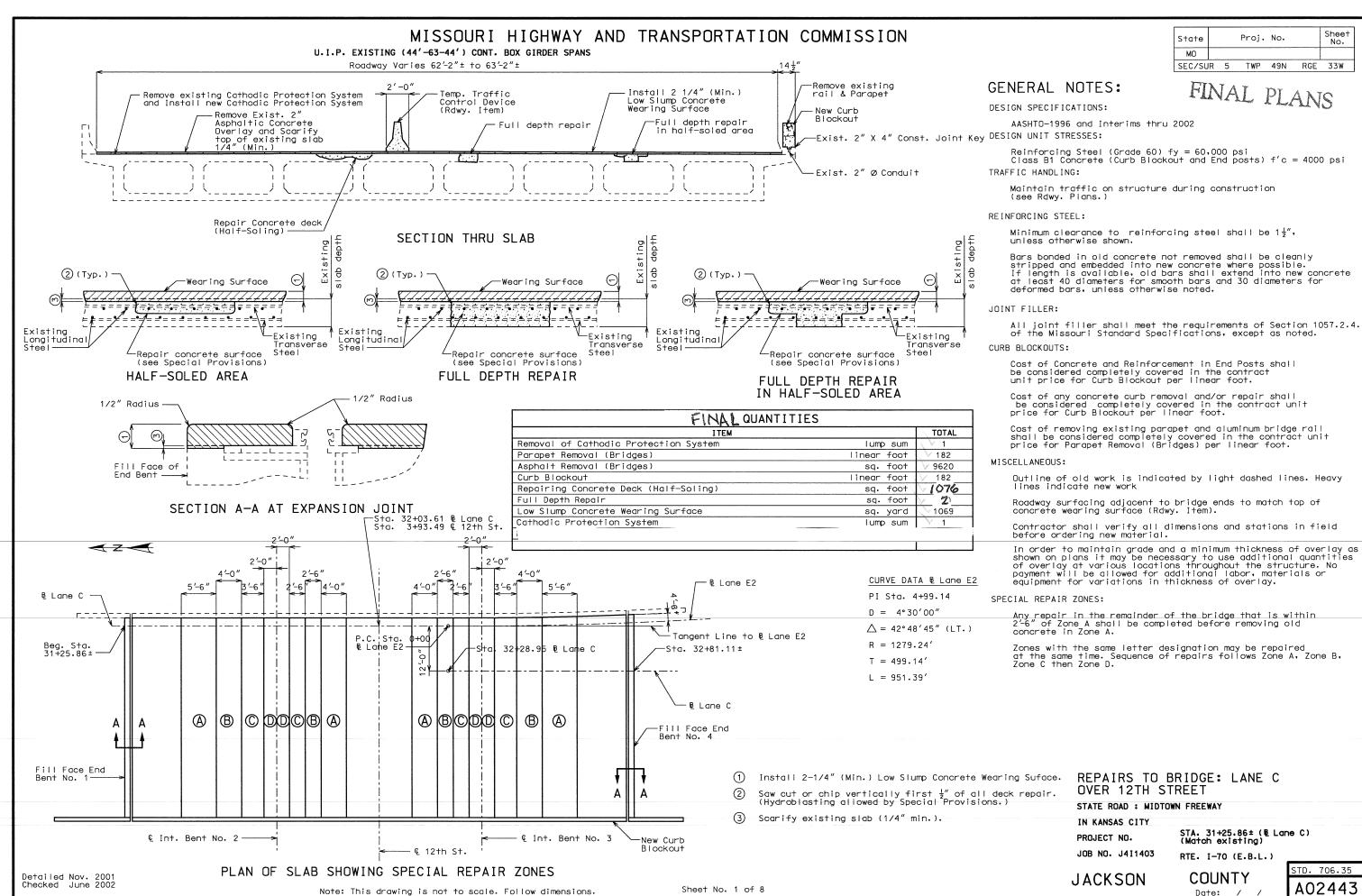
Knockouts or drilled holes shall be provided in cabinets for all conduit. Locations of these holes are the responsibility of the contractor and cabinet manufacturer.

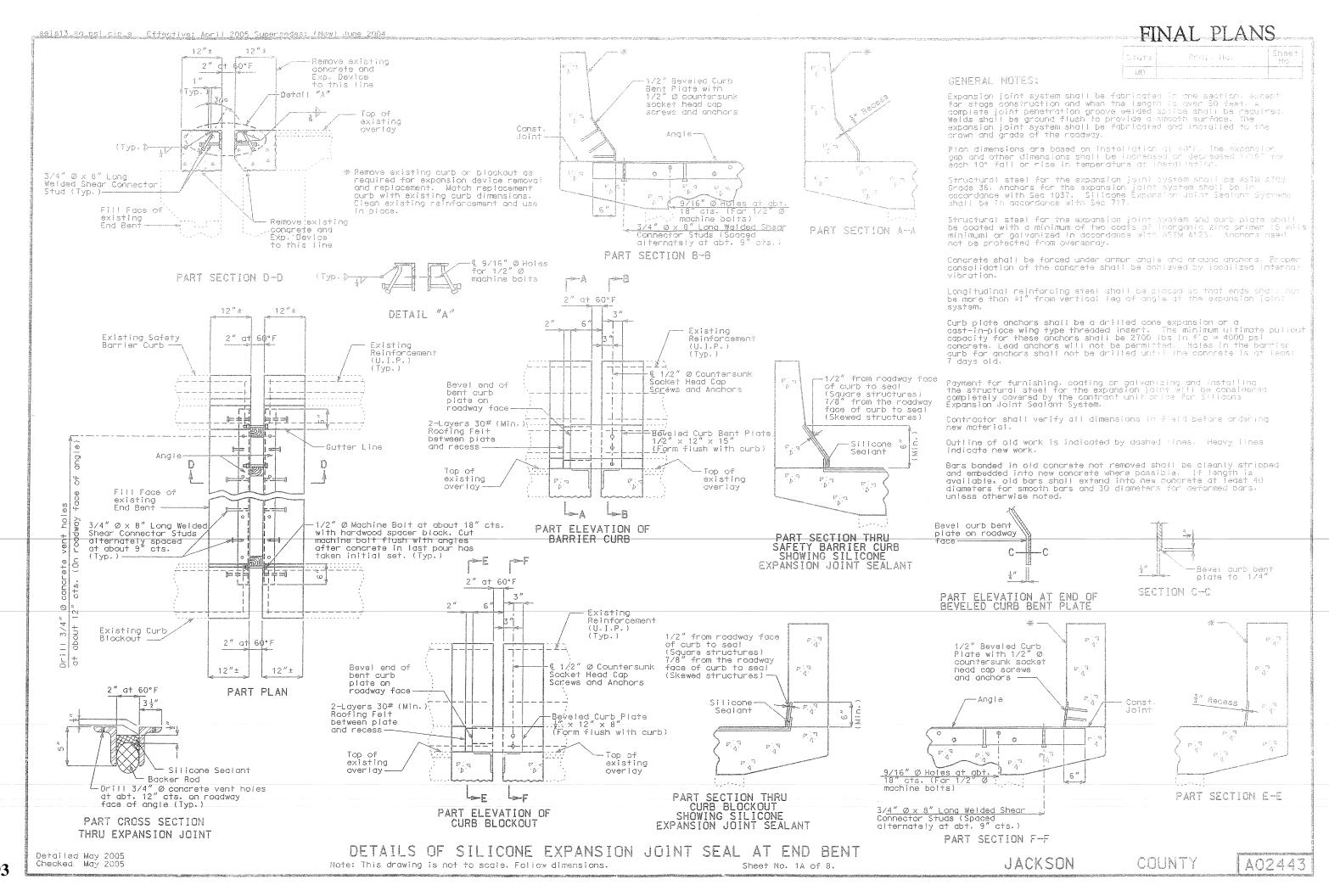


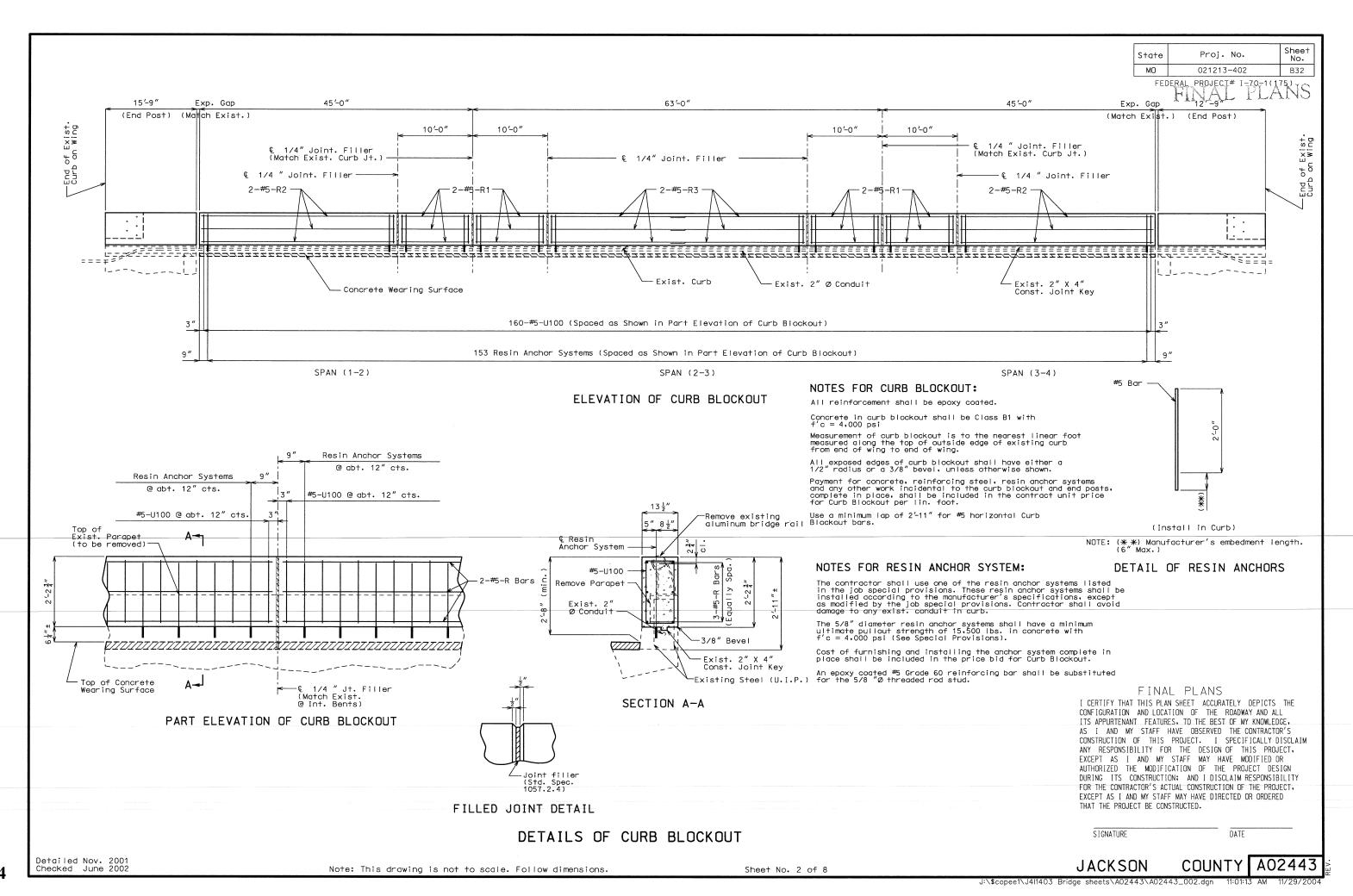
Detailed Mar. 2002 Checked July 2002

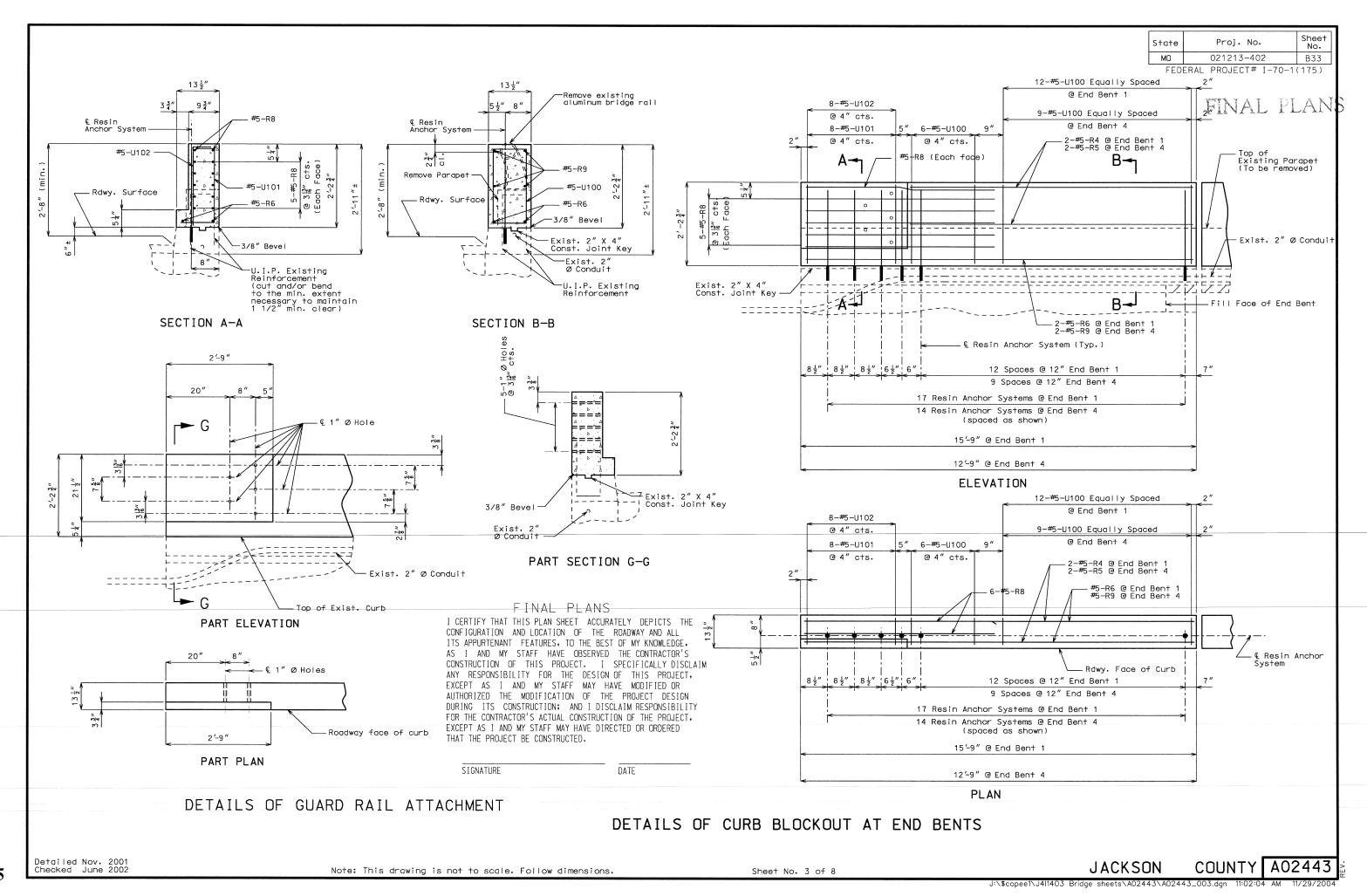
JACKSON COUNTY A02443



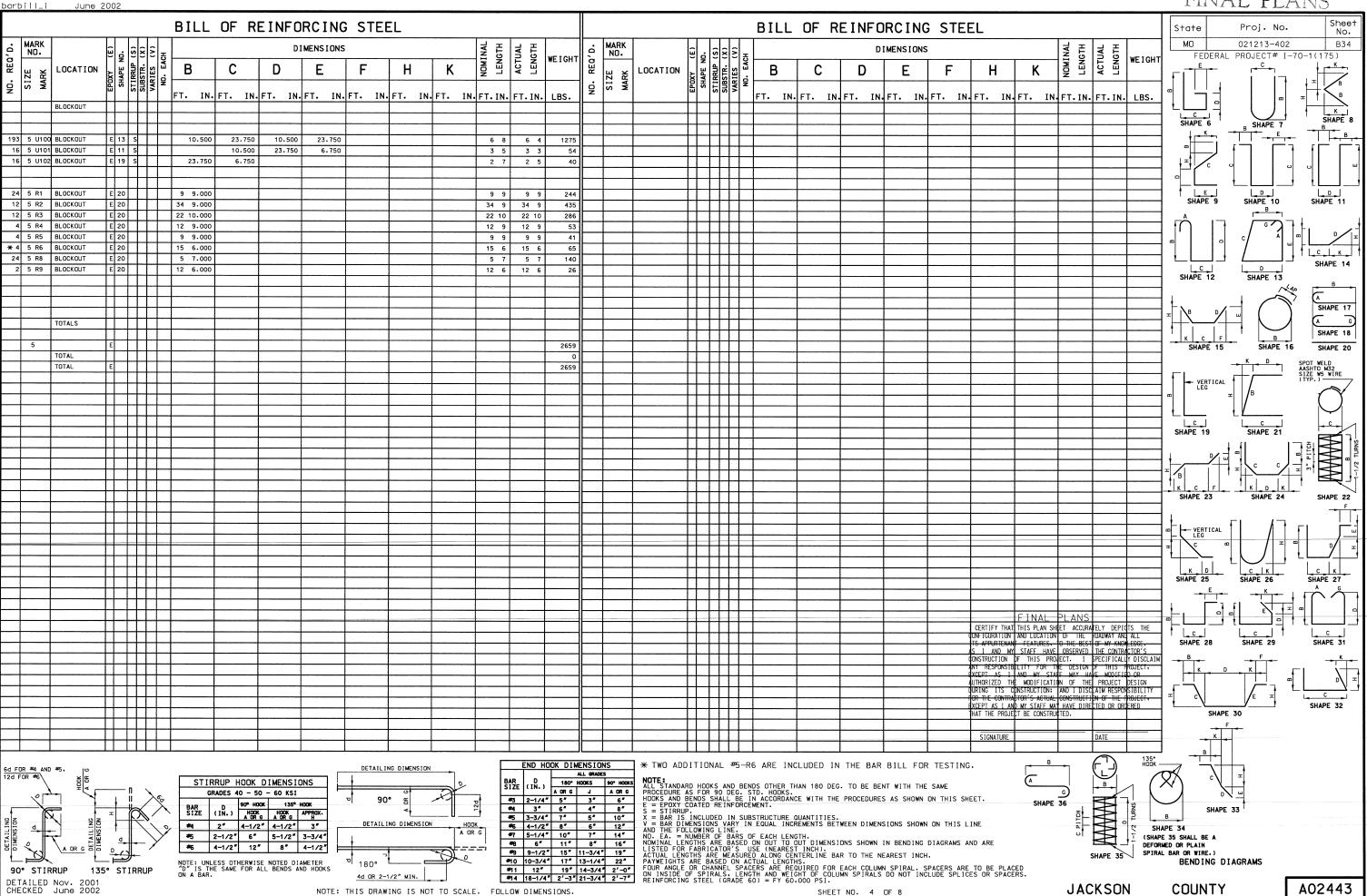


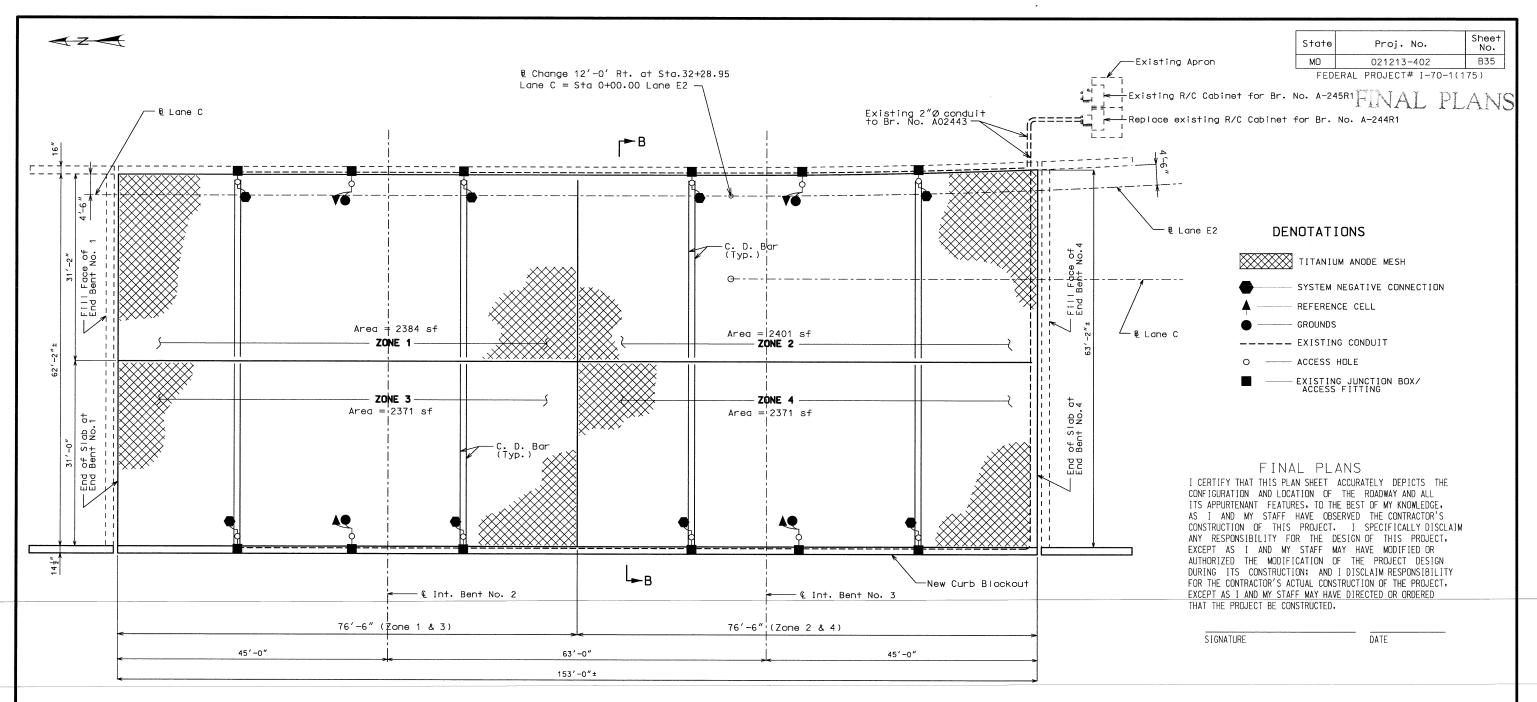






FINAL PLANS





PART PLAN OF SLAB SHOWING TITANIUM MESH CATHODIC PROTECTION SYSTEM

FINAL QUANTITIES	For Information only		
ITEM	UNIT	QUANTITY	
Titanium Anode Mesh (Elgard 210)	Sq. Feet	9527	
Reference Cells	Each	4	
Thermite Welds	Each	12	
		ļ	
		-	

Note: No direct payment shall be made for any additional conduit, junction boxes, access fittings, additional material, labor and modification to existing conduit.

NOTE:

Reference cells are to be placed at approximate ${\mathfrak C}$ of zone length as determined by the engineer.

Current Distribution Bars (C.D. Bar) to be placed near 1/4 point of Zones.

For Section B-B Thru Slab, typical zone layout and partial electrical schematic, see sheet no. 6.

Existing overlay and cathodic protection system shall be removed and the original deck scarified prior to installation of new Cathodic Protection System (see special provisions).

NOTE

Replace existing R/C Cabinet with new enclosure, mounted on existing apron and meeting required manufacturer's specifications and all local electrical codes.

Use existing conduit and appurtenances, with the approval of the Engineer, as shown on the plans. All existing conduit and appurtenances not used with the new Cathodic Protection System shall be removed from the Structure.

All existing wiring in the deck and conduits shall be removed and replaced with new wiring.

The anode leads, system negative return leads, reference cell and reference cell ground lead shall be routed in one of the existing conduits.

The telephone cable shall be routed into the rectifier through one of the unused existing conduits.

The reference cell ground lead shall be welded to the top rebar within 12" of the reference cell.

Anode assembly number must match zone number.

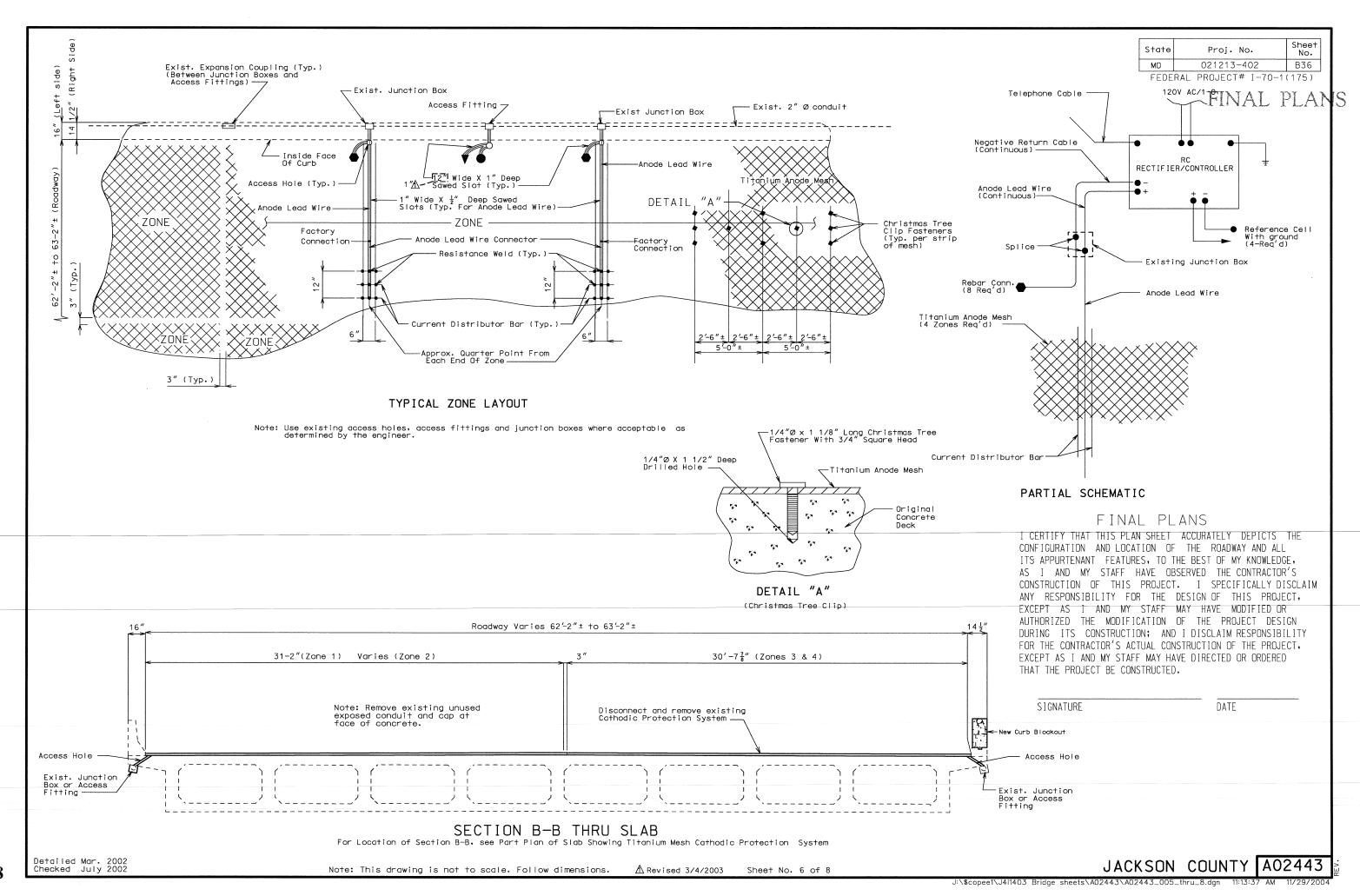
Existing access holes through deck not used with the new cathodic protection system shall have its plastic sleeve and silicone sealant removed, hole cleaned and plugged with a nonmetallic expansive mortar in accordance with Std. Spec. 1066.

Detailed Mar. 2002 Checked July 2002

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

Sheet No. 5 of 8

JACKSON COUNTY A0244



Sheet No. State Proi. No. 021213-402 B37 MΩ

FEDERAL PROJECT# I-70-1(175)

FINAL PLANS

Notes for New Conduit and Appurtenances (if required by Engineer): Conduit shall be schedule 40 heavy wall PVC (Polyvinyl Chloride Plastic). Each section of conduit shall bear the underwriters laboratories, inc. (UL) label.

Conduit shall be secured to concrete with clamps (galvanized/AASHTO M111) at abt. 5'-0" cts. Concrete anchors for clamps shall meet federal specification FF-S-325, group II, type 4, class I and shall be galvanized in accordance with ASTM A-153, B695-91 class 50. Minimum embedment in concrete shall be 1½". The supplier shall furnish a manufacturer's certification that the concrete anchors meet the required material and galvanizing specifications.

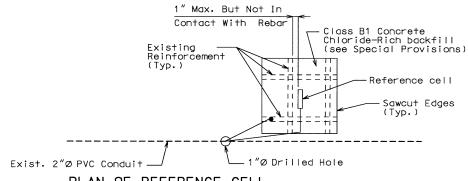
Weepholes shall be provided at appropriate locations to drain any moisture in the conduit lines.

Expansion couplings shall be installed on conduit lines between all junction boxes and access fittings as approved by the engineer.

The location and direction of conduit may be shifted to meet field conditions as directed by the

All junction boxes shall be PVC molded, surface mounted, size $8" \times 8" \times 7"$ and equal to Carlon Electrical Construction products or Triangle Conduit and Cable company Inc.. The terminations

The terminations and covers shall be of watertight construction.



PLAN OF REFERENCE CELL

Note: The \$\frac{3}{4}\top ground rod shall be of sufficient length to extend a minimum of 10'-0" below bottom of concrete pedestal. (Use existing if approved by the engineer).

Ground wire shall be AGW No.6 minimum (Use existing if approved by the engineer).

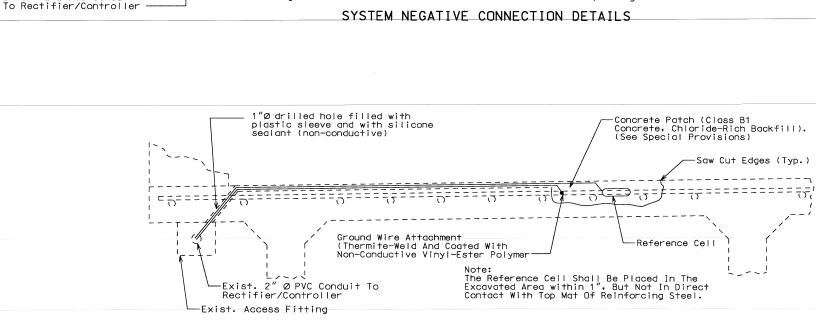
Drilled holes shall be provided in cabinets for all conduit. Locations of these holes are the responsibility of the contractor and cabinet manufacturer.

FINAL PLANS

I CERTIFY THAT THIS PLAN SHEET ACCURATELY DEPICTS THE CONFIGURATION AND LOCATION OF THE ROADWAY AND ALL ITS APPURTENANT FEATURES, TO THE BEST OF MY KNOWLEDGE, AS I AND MY STAFF HAVE OBSERVED THE CONTRACTOR'S CONSTRUCTION OF THIS PROJECT. I SPECIFICALLY DISCLAIM ANY RESPONSIBILITY FOR THE DESIGN OF THIS PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE MODIFIED OR AUTHORIZED THE MODIFICATION OF THE PROJECT DESIGN DURING ITS CONSTRUCTION; AND I DISCLAIM RESPONSIBILITY FOR THE CONTRACTOR'S ACTUAL CONSTRUCTION OF THE PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE DIRECTED OR ORDERED THAT THE PROJECT BE CONSTRUCTED.

SIGNATURE

DATE



1" Wide X 1/2" Deep Slot (Typ.) (See Special Provisions)

Anode Lead Wire AWG No. 10 Stranded Copper

With HMWPE Insulation. The Lead Wire Shall Be Sufficient Length To Extend To The

Rectifier/Controller Without Splicing

1"Ø drilled hole filled with plastic sleeve and with silicone

4'-0" Titanium Anode Mesh-

1"Ø drilled hole filled with plastic sleeve and with silicone

sealant (non-conductive)

sealant (non-conductive)

Two Current Distributor Bars

Anode Lead Wire (Attached To Current Distributor Bars At Approx. & Of Zone Width And To Continuous

TITANIUM ANODE MESH DETAILS

Anode Lead Wire In Junction Box)

Concrete Patch (Class B1

-Negative Lead (Spliced To Negative Return Cable In Junction Box.

Length To Extend To The Rectifier/Controller Without Splicing

Negative Return Cable AWG No.10 Stranded Copper With HMWPE insulation. The Return Cable Shall Be Of Sufficient

Concrete, Chloride-Rich Backfill).
(See Special Provisions)

Attach To Anode Lead Wire At The Approximate & Of Zone Width

Scarified Surface (Typ. For Exist. Deck)
Roughened Surface (Typ. For New Deck)
(See Special Provisions)

Resistance Weld Mesh To Current Distributor Bars At Every Strand Junction

Connection To Rebar Is To Be

Thermite-Welded And Coated With Non-Conductive Vinyl-Ester Polymer

Saw Cut Edges (Typ.)

Top Mat Reinforcing Steel (Typ.)

REFERENCE CELL DETAILS

All concrete removal shall be intiated by saw cutting the first 1/2".

Detailed Mar. 2002 Checked July 2002

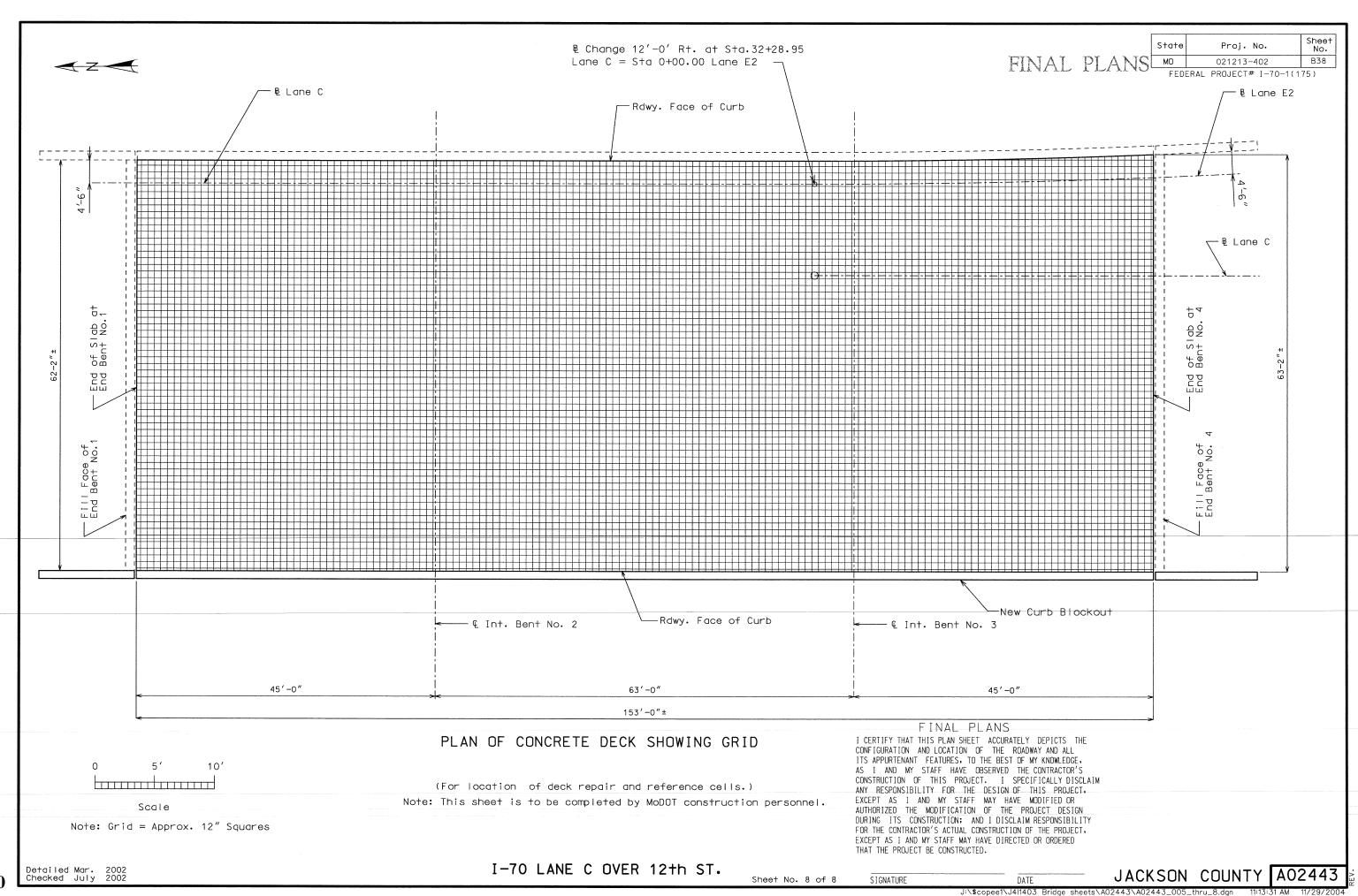
Exist. Junction Box

Exist. Junction Box

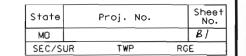
Exist. 2"Ø PVC Conduit

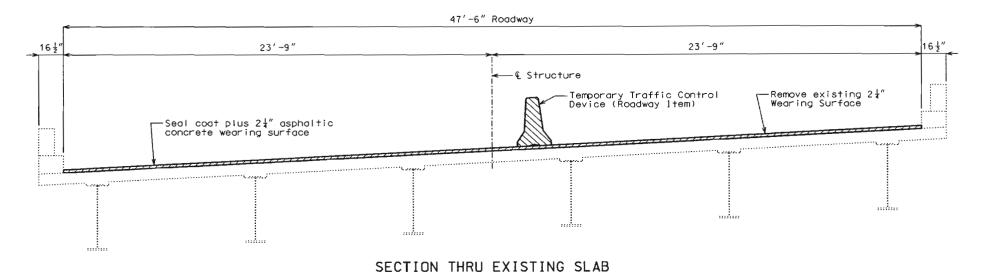
Exist. 2"Ø PVC Conduit To Rectifier/Controller

A02443 JACKSON COUNTY



MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION





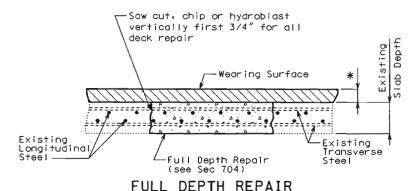
(Left lane shown, right lane similar)

—Saw cut, chip or hydroblast vertically first 3/4" for all deck repair -Wearing Surface Existing Longitudinal Steel -Existing Transverse

MODIFIED DECK REPAIR

-Modified Deck Repair (see Sec. 704)

Steel



★ Seal coat and 2¼ asphaltic concrete wearing surface (Typ.)

GENERAL NOTES:

Design Specifications: 2002 - AASHTO 17th Edition Bridge Deck Rating = 7

Miscellaneous:

Roadway surfacing adjacent to bridge ends to match bridge overlay (Roadway Item).

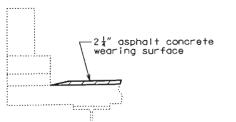
"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

Outline of old work is indicated by dashed lines. Heavy lines

Contractor shall verify all dimensions in field before ordering new material. Existing expansion devices are to be used in place. Do not disturb.

Concrete for repairing concrete deck shall be a qualified special mortar in accordance with Sec 704 instead of the Class B-2 or B-1 $\,$

Estimated Quantities	(Includes	Left	& Ric	ht.	Lanes)
I tem					Total
Removal of Asphalt Wearing Surface			sq.	foot	22.895
Asphaltic Concrete Wearing Surface					(Rdwy. Item)
Seal Coat, Grade C			sq.	yard	2,544
Full Depth Repair			sq.	foot	230
Modified Deck Repair			sq.	foot	2,290



TYPICAL SECTION OF EXISTING CURB SHOWING OUTLET



REPAIRS TO BRIDGE OVER RTE. 50

STATE ROAD IN KANSAS CITY

PROJECT NO.

STA. (Match Exist.)

JOB NO. J1D0690A

RTE. 1-470

COUNTY JACKSON





COUNTY: JACKSON A0244 R1 REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: ROUTE CARRIED 'ON' STRUCT 3/7/2024 2023 **RECORD TYPE:** RUN DATE: **SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION ROUTE CARRIED 'ON' STRUCT State MISSOURI 5A Record Type District 5B KC Route Signing Prefix MAINLINE **JACKSON** County 5C Designated Level of Service 00070 214 8 Federal ID No. 5D Route Number 1958 NOT APPLICABLE 27 Year Built 5E Directional Suffix IS 70 E 106 2006 7 Year Reconstructed Facility Carried YES HIGHWAY Type of Service On 12 Base Hwv. Network STATE HIGHWAY AGENCY 000000019 21 Structure Maintenance 13A LRS Inventory Route No. 00 STATE HIGHWAY AGENCY 22 Structure Owner 13B Subroute No. 33 NO MEDIAN ON FREE ROAD Br. Median Code 20 Toll Status 11-UR PRNCPL ARTERIAL-IS 37 Historical Significance NOT ELIGIBLE FOR NR OF HP 26 Functional Classification LEFT 101 28A Parallel Struc Desg Lanes on Structure NOT TEMPORARY Temporary Structure 103 ON A DEFENSE HWY 100 STRAHNET Designation NBIS Bridge Length YES ON NHS 104 National Highway System NOT APPLICABLE 105 Federal Lands Highway YES 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 55722 4 Place KANSAS CITY CITY 29 AADT 38000 2023 Code 30 AADT Year S 5 T 49 N R 33 W 1-WAY TRAFFIC Location 102 Direction of Traffic 11 Milepoint 2.34 miles 18% 109 AADT Truck Percent 16 Latitude 39 D 5 M 58 S 75225 114 Future AADT 17 Longitude 94 D 34 M 22 S 2043 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION CST E 12TH ST 10 99 Ft. 99 In. Features Intersected Inventory Rte. Vert. Clear 42B HIGHWAY 19 0.62 miles Type of Service Under By pass Detour Length 02 28B Lanes Under Structure 32 Approach Roadway Width 60 Ft. 0 In. HIGHWAY 0.00 Degrees 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared 15 Ft. 11 In. Rt. Lat Clear Ref. HIGHWAY Total Horiz. Clear 60 Ft. 0 In. 55A 47 55B Rt. Lat Clearance 12 Ft. 6 In. 48 62 Ft. 12 In. Maximum Span Length 155 Ft. 10 In. 0 Ft. 0 In. Left Lat Clearance 49 Structure Length N/A Navigation Control 50A 0 Ft. 0 In. Left Curb/Sidewalk Width Nav Vertical Clear 0 Ft. 0 In. 39 50B Right Curb/Sidewalk Width 0 Ft. 0 In. 0 Ft. 0 In. Curb to Curb Br. Width 62 Ft. 0 In. 40 Nav Horizontal Clear 51 64 Ft. 12 In. Nav. Pier Protection Deck Width (Out-Out) 111 52 99 Ft. 99 In. Nav. Cl. Vert. Clear 53 Vert.Clearance Over Deck



May 2, 2024 4:15:46pm

COUNTY: JACKSON BRIDGE: A0244 R1 REVIEW STATUS: APPROVED NBI STATUS: P

RECORD TYPE: ROUTE CARRIED 'ON' STRUCT RUN DATE: 3/7/2024 SUBMITTAL YEAR: 2023

LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION	
31 Design Load HS 20 41 Structure Status A - OPEN NO RESTRICTIONS	1	
	2	
Oper. Rating Meth.	" of Main Spans	
64 Operating Rating 110 Tons.	44A Appr Struc. Mat type	
65 Inventory Rating Meth LOAD FACTOR	44B Appr Struc. Cnstr. type 46 # of Approach Span 0	
66 Inventory Rating 67 Tons.	40 "OTApproach Span	
70 Bridge Posting Code =>LEGAL LOADS	107 Deck Mat/Constr. 1 CONCRETE CIP	
PROPOSED IMPROVEMENT INFORMATION	108A Wear Surf Mat/Constr. 4 LOW SLUMP 108B Membrane Mat/Constr. 0 NONE	
Sufficiency Rating 83.0 Percent	108C Deck Protect Mat/Constr. 0 NONE	
Deficiency Rating NOT DEFICIENT	Dear Totel May consu.	
Funding Eligibility	CONDITION RATING INFORMATION	
75A Proposed Work	58 Deck Cond. Rating 5	
75B Work Done By	59 Superstructure Cond. Rating 5	
New Struc Length 0 Ft. 0 In.	60 Substructure Cond. Rating 5	
94 Struc Improve Cost \$ 0,000	61 Channel /Channel Protection Cond. Rating N	
95 Roadway Improve Cost \$ 0,000	62 Culvert Cond. Rating N	
96 Total Project Cost \$ 0,000	INSPECTION INFORMATION	
97 Year of Cost Estimates 0		
APPRAISAL RATING INFORMATION	90 Gen. Insp Date 9 / 23	
36A Br. Rail App. Rating MEETS ACCEPTBLE STND	91 Gen. Insp. Frequency 24 Months 92A Frac. Critical Inspection N Months	
36B Transition Rail App. Rating MEETS ACCEPTBLE STND	93A Frac. Critical Insp. Date	
36C Approach Rail App. Rating MEETS ACCEPTBLE STND	92B Underwater Inspection N Months	
36D Rail End Treat. App. Rating MEETS ACCEPTBLE STND	93B Underwater Insp. Date	
67 Struc Eval App. Rating 5	92C Special Inspection N Months	
68 Deck Geometry App. Rating 9	93C Special Inspection Date	
69 Underclearance App. Rating 7		
71 Waterway Adeq. App. Rating N	BORDER BRIDGE INFORMATION	
72 Approach Road App. Rating 8	98 Neighboring State Code	
113 Scour Assess App. Rating N	98B Neighboring State % Respon	
	99 Neighboring State Struc. No.	
APPROVED POSTING INFORMATION	FIELD POSTING INFORMATION	
Approved Posting Category S-1	Field Posting Category S-1	
Ton1 Ton2 Ton3	Ton1 Ton2 Ton3	
TOTAL TOTAL	1011 1012 10110	
Tonnage Values for Posting Sign	Tonnage Values for Posting Sign	
General Text for Posting Sign	General Text for Posting Sign	
NO POSTING REQUIRED	NO POSTING REQUIRED	

 $Design_No = A0244$



May 2, 2024 4:15:46pm

COUNTY: JACKSON A0244 R1 REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 3/7/2024 2023 ROUTE 'UNDER' STRUCT **RECORD TYPE: SUBMITTAL YEAR:** RUN DATE: GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION ROUTE 'UNDER' STRUCT State Code: 2 MISSOURI 5A Record Type CST District 5B KC Route Signing Prefix MAINLINE **JACKSON** County 5C Designated Level of Service 00000 Federal ID No. 214 8 5D Route Number 1958 NOT APPLICABLE 27 Year Built 5E Directional Suffix IS 70 E 106 0 7 Year Reconstructed Facility Carried HIGHWAY Type of Service On 12 Base Hwv. Network Structure Maintenance 13A LRS Inventory Route No. 22 Structure Owner 13B Subroute No. 33 ON FREE ROAD Br. Median Code Toll Status 20 17-URBAN COLLECTOR 37 Historical Significance 26 Functional Classification LEFT 101 28A Parallel Struc Desg Lanes on Structure NOT TEMPORARY Temporary Structure 103 RTE NOT A DEFENSE HWY 100 STRAHNET Designation NBIS Bridge Length NOT ON NHS National Highway System 104 105 Federal Lands Highway NO 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 2609 4 Place KANSAS CITY CITY 29 AADT 38000 2023 Code 30 AADT Year S 5 T 49 N R 33 W 1-WAY TRAFFIC Location 102 Direction of Traffic 11 Milepoint 0.56 miles 5% 109 AADT Truck Percent 16 Latitude 39 D 5 M 58 S 114 Future AADT 17 Longitude 94 D 34 M 22 S 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION CST E 12TH ST 10 15 Ft. 11 In. Features Intersected Inventory Rte. Vert. Clear 42B HIGHWAY 19 0.00 miles Type of Service Under By pass Detour Length 02 28B Lanes Under Structure 32 Approach Roadway Width 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared Rt. Lat Clear Ref. Total Horiz. Clear 17 Ft. 1 In. 55A 47 55B Rt. Lat Clearance 48 62 Ft. 12 In. Maximum Span Length 155 Ft. 10 In. Left Lat Clearance 49 Structure Length Navigation Control 50A Left Curb/Sidewalk Width Nav Vertical Clear 39 50B Right Curb/Sidewalk Width 40 Nav Horizontal Clear 51 Curb to Curb Br. Width Nav. Pier Protection Deck Width (Out-Out) 111 52 Nav. Cl. Vert. Clear 53 Vert.Clearance Over Deck



May 2, 2024 4:15:46pm

COUNTY: JACKSON A0244 R1 REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 3/7/2024 2023 ROUTE 'UNDER' STRUCT **SUBMITTAL YEAR: RECORD TYPE: RUN DATE:** LOAD RATING AND POSTING INFORMATION MATERIAL/CONSTRUCTION INFORMATION 43A Main Struc. Mat type CONCRETE CONTINUOUS Design Load BOX BEAM OR GIRDERS-SING 41 Structure Status 43B Main struc Constr. Type 63 45 Oper. Rating Meth. # of Main Spans Operating Rating 44A Appr Struc. Mat type 44B Appr Struc. Cnstr. type 65 Inventory Rating Meth 46 # of Approach Span Inventory Rating 70 107 Deck Mat/Constr. Bridge Posting Code 108A Wear Surf Mat/Constr. PROPOSED IMPROVEMENT INFORMATION 108B Membrane Mat/Constr. Sufficiency Rating 108C Deck Protect Mat/Constr. Deficiency Rating CONDITION RATING INFORMATION Funding Eligibility Proposed Work 58 Deck Cond. Rating 75B Work Done By 59 Superstructure Cond. Rating 76 New Struc Length 60 Substructure Cond. Rating 94 Struc Improve Cost 61 Channel / Channel Protection Cond. Rating 95 Roadway Improve Cost 62 Culvert Cond. Rating 96 Total Project Cost INSPECTION INFORMATION Year of Cost Estimates 90 Gen. Insp Date APPRAISAL RATING INFORMATION 91 Gen. Insp. Frequency 36A Br. Rail App. Rating 92A Frac. Critical Inspection 36B 93A Transition Rail App. Rating Frac. Critical Insp. Date 36C 92B Approach Rail App. Rating Underwater Inspection 36D Rail End Treat. App. Rating 93B Underwater Insp. Date 67 Struc Eval App. Rating 92C Special Inspection Deck Geometry App. Rating 93C Special Inspection Date 69 Underclearance App. Rating BORDER BRIDGE INFORMATION 71 Waterway Adeq. App. Rating 98 Neighboring State Code 72 Approach Road App. Rating 98B Neighboring State % Respon 113 Scour Assess App. Rating 99 Neighboring State Struc. No. APPROVED POSTING INFORMATION FIELD POSTING INFORMATION Approved Posting Category Field Posting Category Ton1 Ton2 Ton3 Ton1 Ton2 Ton3 Tonnage Values for Posting Sign Tonnage Values for Posting Sign General Text for Posting Sign General Text for Posting Sign