

CONTRACT PLANS COMPONENTS
STRUCTURE PLANS

INDEX OF STRUCTURE PLANS

SHEET NO.	SHEET DESCRIPTION
B-1	KEY SHEET
B-2	SIGNATURE SHEET
BOI-1	SUMMARY OF STRUCTURE QUANTITIES
BL-1	GENERAL NOTES
BL-2	PLAN AND ELEVATION
BL-3	TYPICAL SECTION
BL-4	CONCRETE SPALL REPAIR AREA
BL-5	CONSTRUCTION DETAILS
BL-6	STANDARD DETAIL SHEET 458-10(1)
S	STANDARD DETAIL SHEET 102-603(1)
S-1	STANDARD DETAIL SHEET 102-603(2)

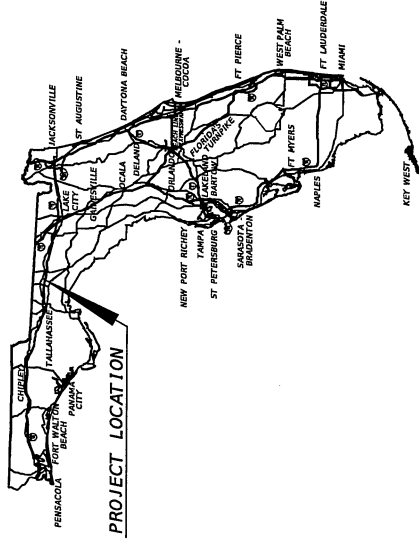
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 451309-1-54-01

JEFFERSON COUNTY (54010)
COUNTY ROAD NO. CR 146

STRUCTURE PLANS



DEVELOPMENTAL DESIGN STANDARDS (DDS):

GOVERNING DESIGN STANDARDS:
Florida Department of Transportation, FY2024-25 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fltdot.gov/design/standardplans>

APPLICABLE IRs: IR _____

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, FY2024-25 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fltdot.gov/programmanagement/implemented/SpecBooks>

STRUCTURE PLANS
ENGINEER OF RECORD:
HONGWEI CAI, PE
P.E. No.: 77327
WSB, LLC
701 Xenia Avenue South
Minneapolis, MN 55416

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
		B-1

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SUMMARY OF STRUCTURE QUANTITIES										
SECTION	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT		QUANTITY		TOTAL		CONSTRUCTION REMARKS
						P	F	P	F	
GENERAL	0101-1	MOBILIZATION		LS	1			1		
SUBSTRUCTURE AND SUPERSTRUCTURE	0401-70-2	RESTORE SPALLED AREAS LATEX MODIFIED MORTARSTYRENE BUTADIENE	TOP OF DECK	CY	30			30		
	0413-151	METHACRYLATE MONOMER	TOP OF DECK	GA	24			24		
	0413-154	CLEANING AND SEALING SURFACES; PENETRANT SEALER OR METHACRYLATES	TOP OF DECK	SF	2400			2400		
	0458-1-21	BRIDGE DECK EXPANSION JOINT-REHABILITATION, POURED JOINT WITH BACKER ROD	TOP OF DECK	LF	96			96		
ROADWAY	0102-1	MAINTENANCE OF TRAFFIC	ROADWAY	DA	10			10		
	0711-16101	THERMOPLASTIC STANDARD OTHER SURFACE, WHITE, SOLID, 6"	ROADWAY	GM	0.05			0.05		
	0711-16201	THERMOPLASTIC STANDARD OTHER SURFACES, YELLOW, SOLID, 6"	ROADWAY	GM	0.05			0.05		

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
04/26	CBO	REMOVED ITEM 032-70-7 MILLING EXISTING ASPHALT PAVEMENT, EXC. DEPTH AND CHANGED QUANTITIES			
<p>REVISIONS</p>					
HONCHIEY, CAI LICENSE NUMBER: 77327 1558 L.L.C., GOLDEN VALLEY, MN 55416		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION COUNTY: JEFFERSON ROAD NO. 146 PROJECT NAME: BRIDGE OVER WOLF CREEK		SHEET TITLE SUMMARY OF STRUCTURES QUANTITIES BRIDGE NO. 540025	
DRAWN BY: LVO 05-24 RBR 12-24 REVISIONS BY: PKM 08-24 RC 05-26		FINANCIAL PROJECT ID 431309-1-54-01		REF. DWG. NO. SHEET NO. B01-1	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.
 F.A.C. NOTE
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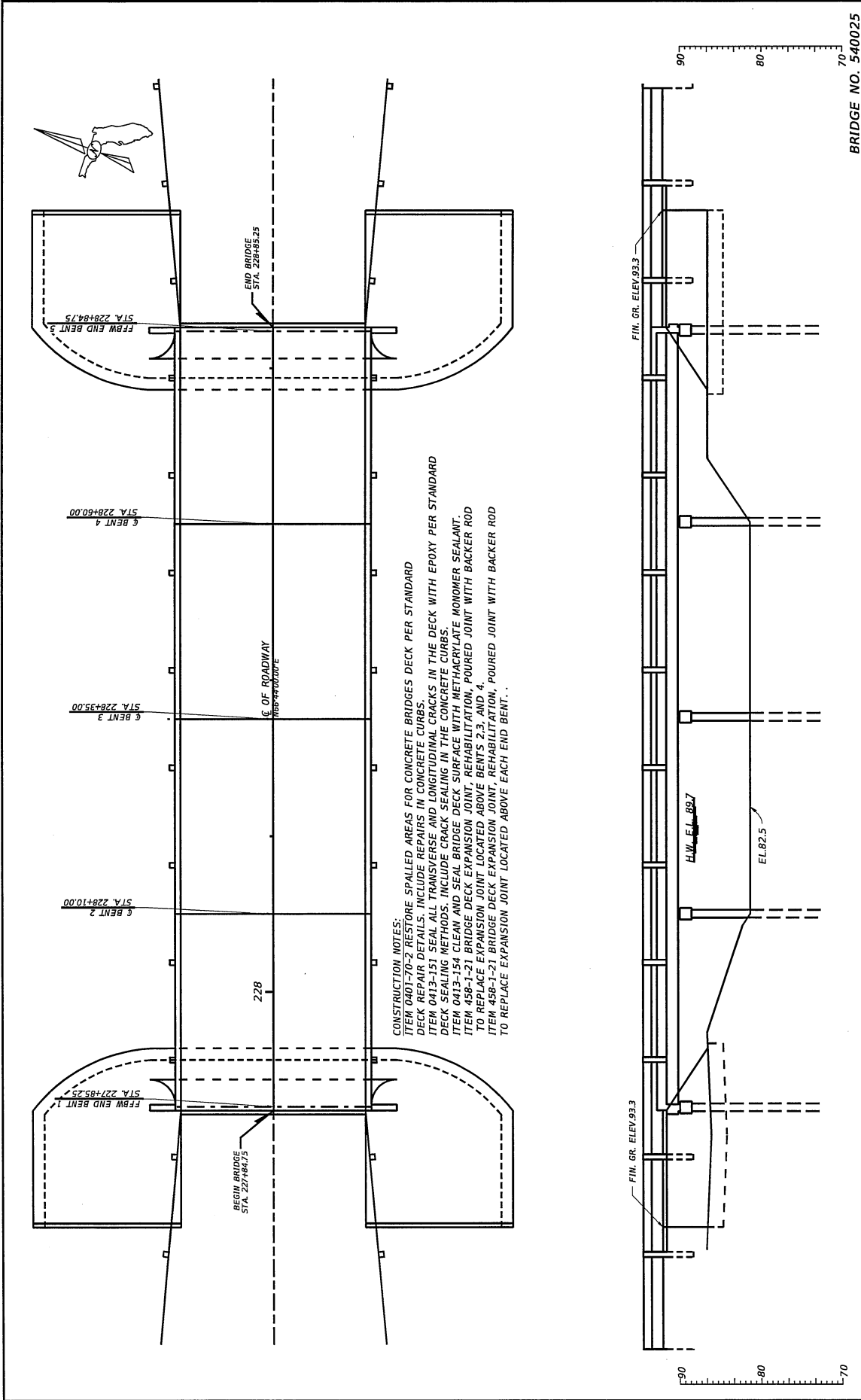
**SCOPE OF WORK:
BRIDGE DECK REPAIR**

1. CONTRACTOR SHALL REPAIR CONCRETE SPALL AREAS SHOWN ON PLAN SHEETS B1-2 TO B1-8.
2. SPALL REPAIR METHOD SHALL BE AS FOLLOWS:
 - A. IDENTIFY THE LIMITS OF THE DEFECTIVE AREA BY PLACING MARKS AT SPALLS OR UNSOUND AREA.
 - B. SAW CUT THE MARKED AREAS PERPENDICULAR TO THE SURFACE OF THE CONCRETE BEING CAREFUL TO NOT DAMAGE ANY REINFORCING STEEL THAT MAY BE ENCOUNTERED.
 - C. REMOVE UNSOUND CONCRETE WITHIN THE SAWED AREA BY GRINDING, CUTTING, HYDRODEMOLITION AND /OR USING A LIGHT CHIPPING HAMMER DELIVERING A SINGLE IMPACT ENERGY OF 15 FT-LB OR LESS.
 - D. CHIPPING SHOULD CONTINUE UNTIL THERE ARE NOT OFFSETS IN THE CAVITY WHICH WOULD CAUSE AN ABRUPT CHANGE IN THE THICKNESS OF THE PERIMETER OF THE REPAIR AREA.
 - E. THE PERIMETER OF THE REPAIR AREA MAY BE SAW CUT OR CHIPPED WITH A LIGHT TAPER TO THE CENTER OF THE AREA. FEATHER EDGING SHOULD BE AVOIDED.
 - F. DO NOT USE HEAVY CHIPPING HAMMERS THAT MAY DAMAGE THE SUBSTRATE CONCRETE THAT IS TO REMAIN UNDER THE REPAIR.
 - G. REMOVE THE CONCRETE WITHIN THE SAWED AREA TO A MINIMUM DEPTH OF 1 INCH. IF ANY REFORCING STEEL IS ENCOUNTERED, REMOVE THE CONCRETE ALL AROUND THE REINFORCING STEEL TO PROVIDE A MINIMUM CLEARANCE OF 1 INCH AROUND STEEL.
 - H. UNCORRODED STEEL REINFORCING SHOULD BE REMOVED UNTIL CLEAN. AVOID HITTING THE REINFORCING STEEL WITH THE REMOVAL TOOLS.
 - I. THE SURFACE SHALL BE PREPARED USING A SCARBLE, BRUSHHAMMER, SHOTBLAST, SCARIFIER OR OTHER MEANS WHICH WILL GIVE A SURFACE TEXTURE OF A MINIMUM 1/8" AMPLITUDE AND EXPOSE THE COARSE AGGREGATE OF THE CONCRETE.
3. MATERIAL:
 - A. SEE TECHNICAL SPECIAL PROVISION T401.

BRIDGE NO. 540025

DATE		DESCRIPTION		REVISIONS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DRAWING BY: LVO_05-24		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE	
DESIGNED BY: PML_08-24		ROAD NO. 146		GENERAL NOTES	
CHECKED BY: HC_05-26		COUNTY JEFFERSON		BRIDGE OVER WOLF CREEK	
		FINANCIAL PROJECT ID 451309-1-54-01		PROJECT NAME	
HONGWEI CAI License Number: 77327 703 SEMIA AVE, S UNIT 300 GOLDEN VALLEY, MN 55416					
REV. DATE		REV. DATE		REV. DATE	

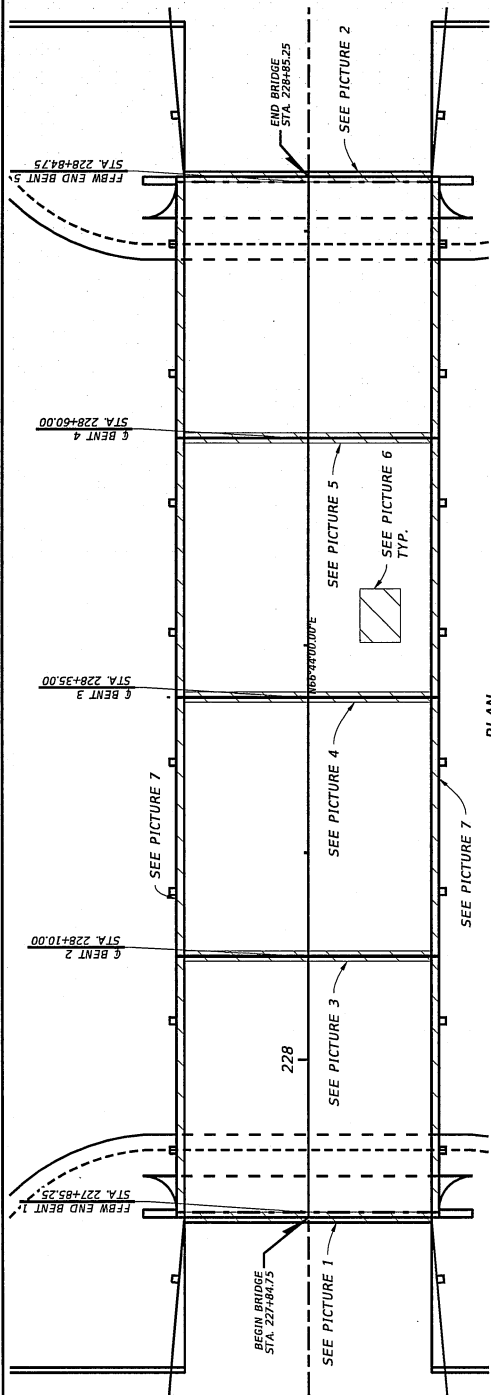


CONSTRUCTION NOTES:
 ITEM 0401-70-2 RESTORE SPALLED AREAS FOR CONCRETE BRIDGES DECK PER STANDARD DECK REPAIR DETAILS. INCLUDE REPAIRS IN CONCRETE CURBS.
 ITEM 0413-151 SEAL ALL TRANSVERSE AND LONGITUDINAL CRACKS IN THE DECK WITH EPOXY PER STANDARD DECK SEALING METHODS. INCLUDE BRIDGE DECK SURFACE SEALING WITH METHACRYLATE MONOMER SEALANT.
 ITEM 0531-34 BRIDGE DECK EXPANSION JOINT REHABILITATION. POURED JOINT WITH BACKER ROD
 ITEM 0531-32 BRIDGE DECK EXPANSION JOINT REHABILITATION. POURED JOINT WITH BACKER ROD
 ITEM 0531-31 BRIDGE DECK EXPANSION JOINT REHABILITATION. POURED JOINT WITH BACKER ROD
 TO REPLACE EXPANSION JOINT LOCATED ABOVE EACH END BENT.

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY
04/2025	CBO	REMOVED ITEM 0327-70-7 MILLING EXISTING ASPHALT PAVEMENT.			

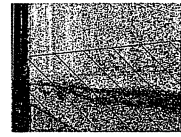
DRAWN BY: LVO 05-24 RER 12-24 PAK 08-24 HC 05-26	STA. TITLE: DEPARTMENT OF TRANSPORTATION ROAD NO. 146 COUNTY JEFFERSON PROJECT NAME 451309-1-54-01	SHEET TITLE: GENERAL PLAN AND ELEVATION BRIDGE OVER WOLF CREEK	BRIDGE NO. 540025 SHEET NO. B1-2 DATE 5/12/2026 TIME 11:45:24 AM
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HONGWEI CAI
 License Number: 77327
 1555 KENIA AVE, S UNIT 300
 GOLDEN VALLEY, MN 55416

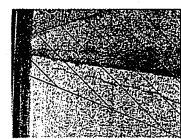


PLAN

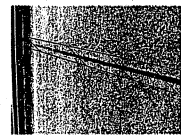
ITEM 0401-70-2 RESTORE SPALLED AREAS FOR CONCRETE BRIDGE DECKS PER STANDARD DECK REPAIR, INCLUDE REPAIRS IN THE CONCRETE CURBS.



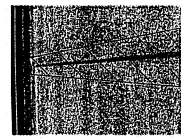
PICTURE 1



PICTURE 2



PICTURE 3



PICTURE 4



PICTURE 5



PICTURE 6



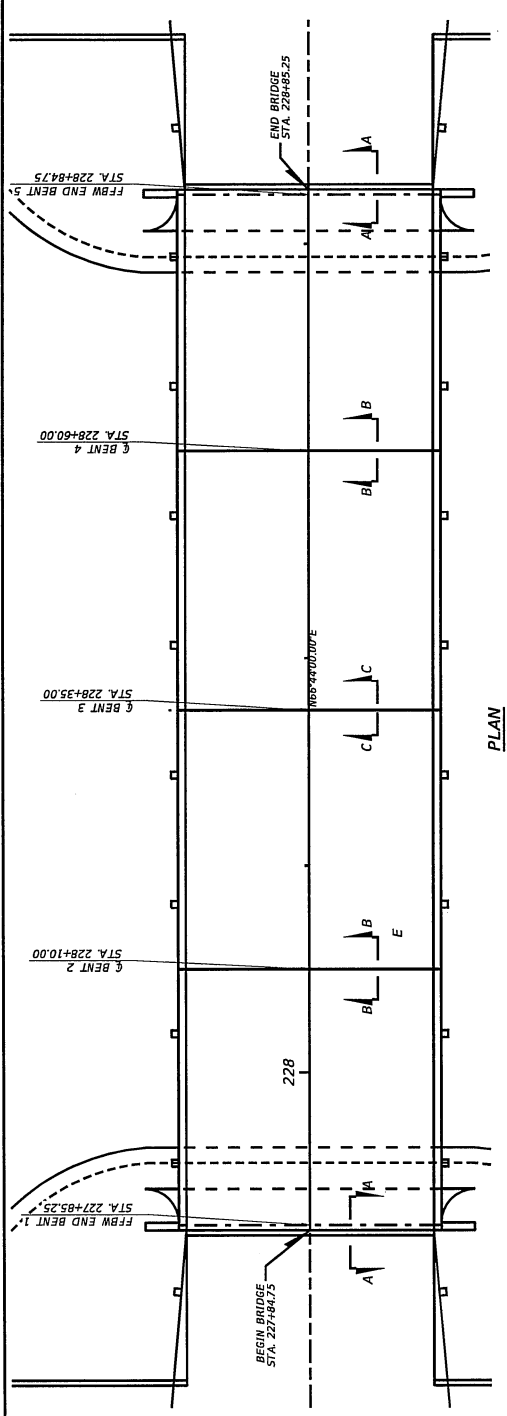
PICTURE 7



SPALL REPAIR AREA

BRIDGE NO. 540025

DATE		BY	DESCRIPTION	DATE	BY	DESCRIPTION
REVISIONS						
HONGWEI CAI License Number: 77327 701 XEMI A AVE, S UNIT 300 GOLDEN VALLEY, MN 55416						
DRAWN BY		STATE OF FLORIDA		SHEET TITLE		REF. DRAW. NO.
LVD_05-24		DEPARTMENT OF TRANSPORTATION		CONCRETE SPALLS REPAIR AREAS		
ABR 12-24		COUNTY		PROJECT NAME		
ZMK_08-24		JEFFERSON		BRIDGE OVER WOLF CREEK		
HC_05-26		ROAD NO.		PROJECT NO.		
		146		451309-1-54-01		
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.						
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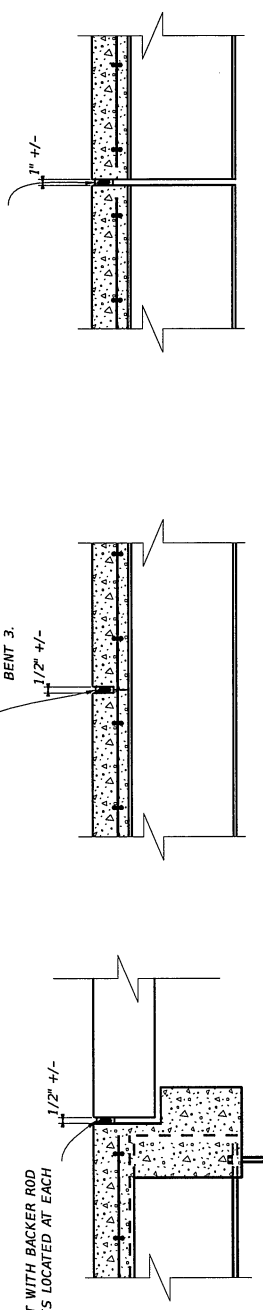


PLAN

ITEM 0458-1-21 BRIDGE DECK EXPANSION JOINT, REHABILITATION, POURED JOINT WITH ROD TO REPLACE CONTROL JOINTS ABOVE BENTS 2 & 4.

ITEM 0458-1-21 BRIDGE DECK EXPANSION JOINT, REHABILITATION, POURED JOINT WITH ROD TO REPLACE EXPANSION JOINT ABOVE BENT 3.

ITEM 0458-1-21 POURED JOINT WITH BACKER ROD TO REPLACE EXPANSION JOINTS LOCATED AT EACH END BENT.



BENT END SECTION A-A CONTROL JOINT SECTION B-B EXPANSION JOINT SECTION C-C BRIDGE NO. 540025

DATE	BY	DESCRIPTION	PREPARED BY	DATE	BY	DESCRIPTION
04/26	CR0	REMOVED ITEM 0327-30-7 MILLING EXISTING ASPHALT PAVEMENT, 4" AVG DEPTH AND CHANGED QUANTITIES				

CONTRACTOR	HONGHAI CAI	STATE OF CALIFORNIA	BRIDGE TITLE	CONSTRUCTION DETAILS
LICENSE NUMBER	77327	DEPARTMENT OF TRANSPORTATION	ROAD NO.	146
PROJECT NO.	MSB LULU AVE, S UNIT 300	COUNTY	PROJECT NAME	BRIDGE OVER WOLF CREEK
PROJECT NAME	GOLDEN VALLEY, MN 55416	JEFFERSON	451309-1-54-01	
DATE	04/26	146		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C. F.A.C. NOTE

CONTRACTOR: HONGHAI CAI
 LICENSE NUMBER: 77327
 PROJECT NO.: MSB LULU AVE, S UNIT 300
 PROJECT NAME: GOLDEN VALLEY, MN 55416
 DATE: 04/26

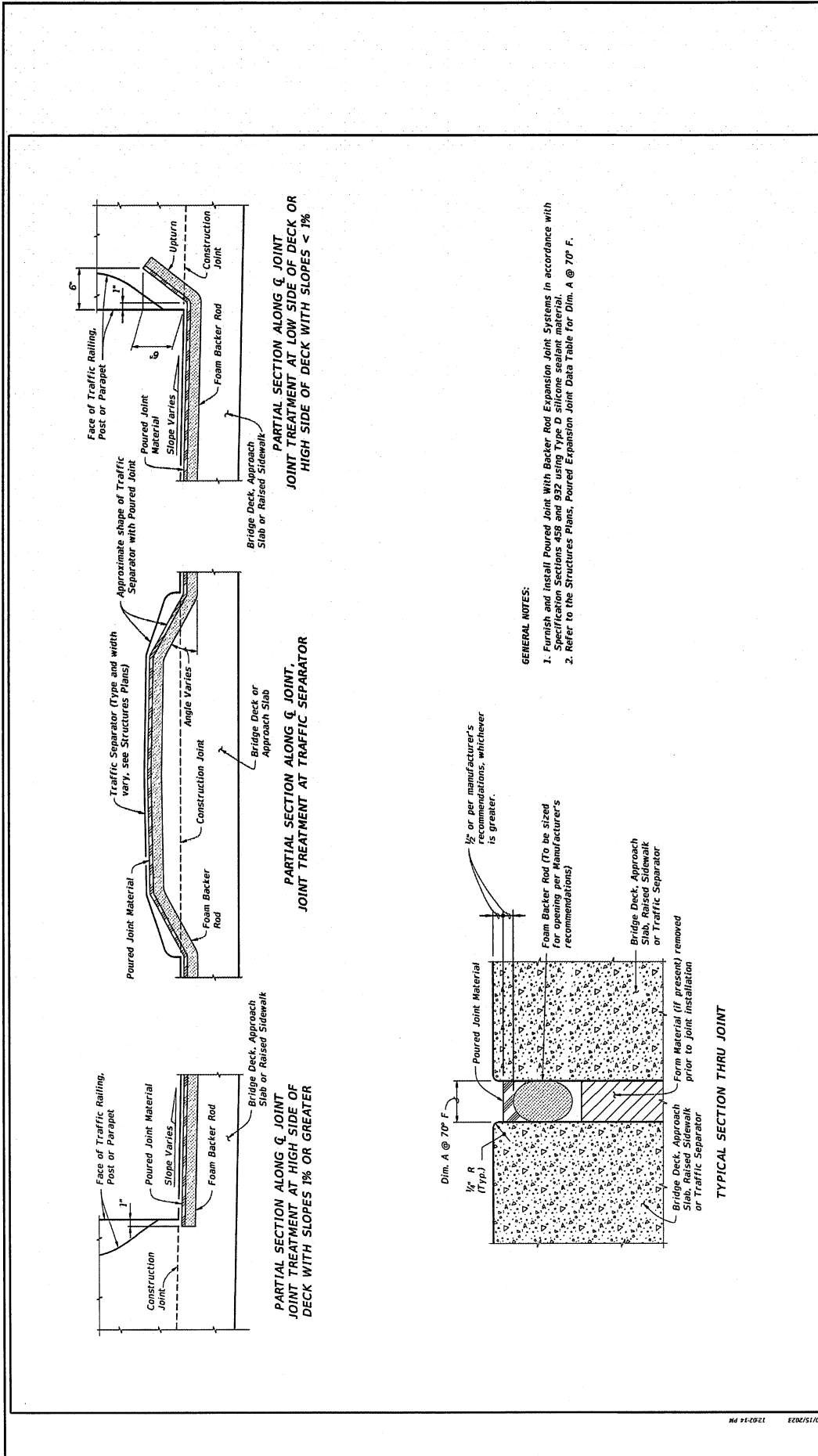
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 COUNTY: JEFFERSON
 ROAD NO.: 146
 PROJECT NAME: BRIDGE OVER WOLF CREEK

BRIDGE NO. 540025

CONSTRUCTION DETAILS

CONTRACTOR: HONGHAI CAI
 LICENSE NUMBER: 77327
 PROJECT NO.: MSB LULU AVE, S UNIT 300
 PROJECT NAME: GOLDEN VALLEY, MN 55416
 DATE: 04/26

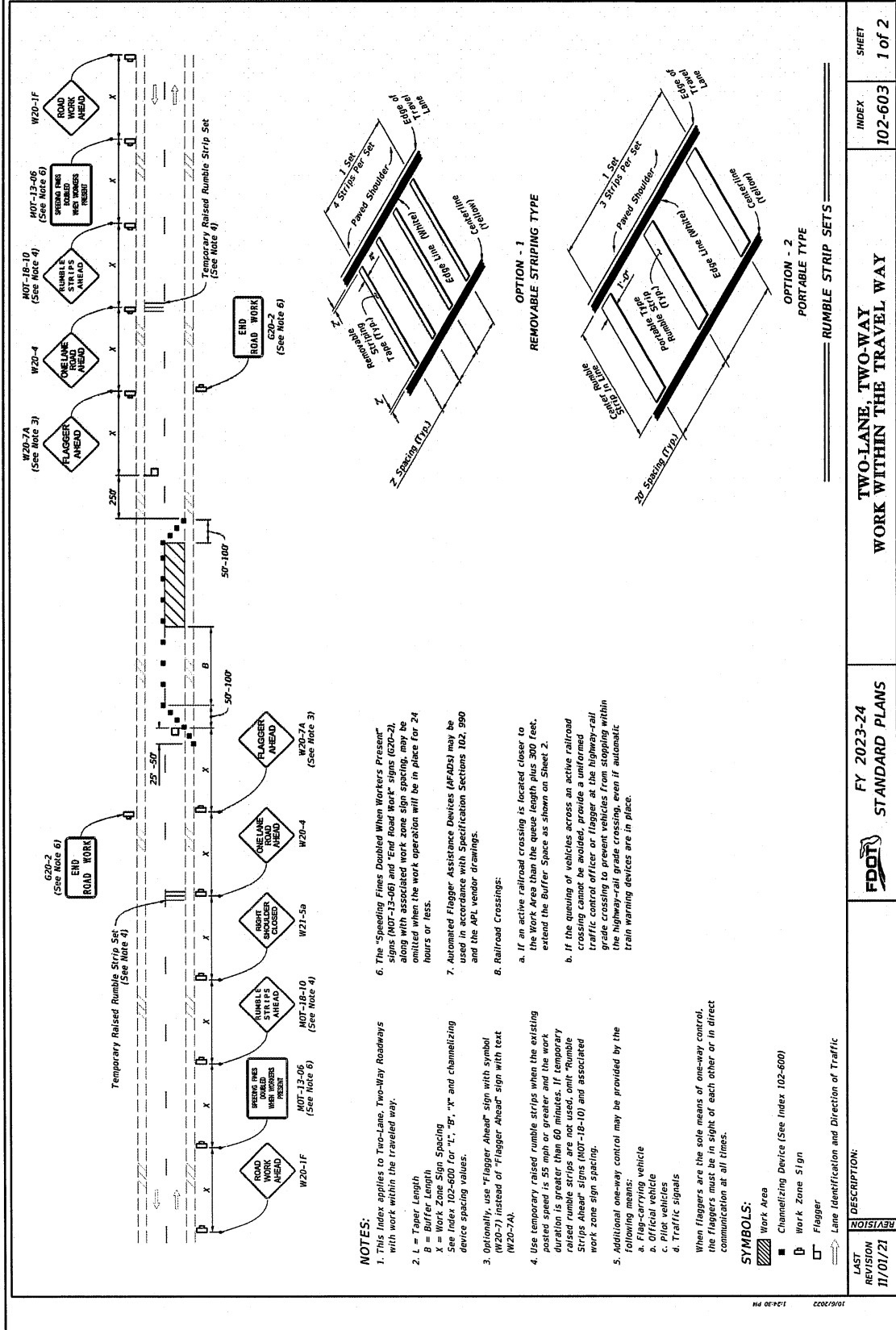
CONTRACTOR: HONGHAI CAI
 LICENSE NUMBER: 77327
 PROJECT NO.: MSB LULU AVE, S UNIT 300
 PROJECT NAME: GOLDEN VALLEY, MN 55416
 DATE: 04/26



LAST REVISION 11/01/23		DESCRIPTION: EXPANSION JOINT SYSTEM - POURED JOINT WITH BACKER ROD		INDEX 458-110	SHEET 1 OF 2
DATE 12/21/23		REVISIONS DESCRIPTION DATE BY		PROJECT TITLE STANDARD DETAIL SHEET 458-110(1)	
COUNTY LVO 05-24 RR 12-24 PK 08-24 IC 05-26		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION COUNTY JEFFERSON PROJECT ID 451309-1-54-01		SHEET NO. BI-6	
OWNER: HONGWEI CAI License Number: 77327 W58 LLC 114 AVE. S. UNIT 300 GOLDEN VALLEY, MN 55416		BRIDGE NO. 540025		PROJECT NAME BRIDGE OVER WOLF CREEK	

GENERAL NOTES:
 1. Furnish and install Poured Joint With Backer Rod Expansion Joint Systems in accordance with Specification Sections 458 and 932 using Type D silicone sealant material.
 2. Refer to the Structures Plans, Poured Expansion Joint Data Table for Dim. A @ 70° F.

1/2" or per manufacturer's recommendations, whichever is greater.
 Foam Backer Rod (To be sized for opening per Manufacturer's recommendations)
 Bridge Deck, Approach Slab, Raised Sidewalk or Traffic Separator
 Form Material (if present) removed prior to joint installation
 Bridge Deck, Approach Slab or Traffic Separator



NOTES:

- This Index applies to Two-Lane, Two-Way Roadways with work within the traveled way.
 - L = Taper Length
B = Buffer Length
X = Work Zone Sign Spacing
See Index 102-600 for "L", "B", "X" and channelizing device spacing values.
 - Optionally, use "Flagger Ahead" sign with symbol (W20-7) instead of "Flagger Ahead" sign with text (W20-7A).
 - Use temporary raised rumble strips when the existing posted speed is 55 mph or greater and the work duration is greater than 60 minutes. If temporary raised rumble strips are not used, omit "Rumble Strips Ahead" signs (W20-18-10) and associated work zone sign spacing.
 - Additional one-way control may be provided by the following means:
 - Flag-carrying vehicle
 - Official vehicle
 - Pilot vehicles
 - Traffic signals
- When flaggers are the sole means of one-way control, the flaggers must be in sight of each other or in direct communication at all times.

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification and Direction of Traffic

DESCRIPTION:

LAST REVISION
11/01/21

REVISIONS

NO.	DATE	BY	DESCRIPTION

FDOT
STANDARD PLANS

**TWO-LANE, TWO-WAY
WORK WITHIN THE TRAVEL WAY**

INDEX
102-603

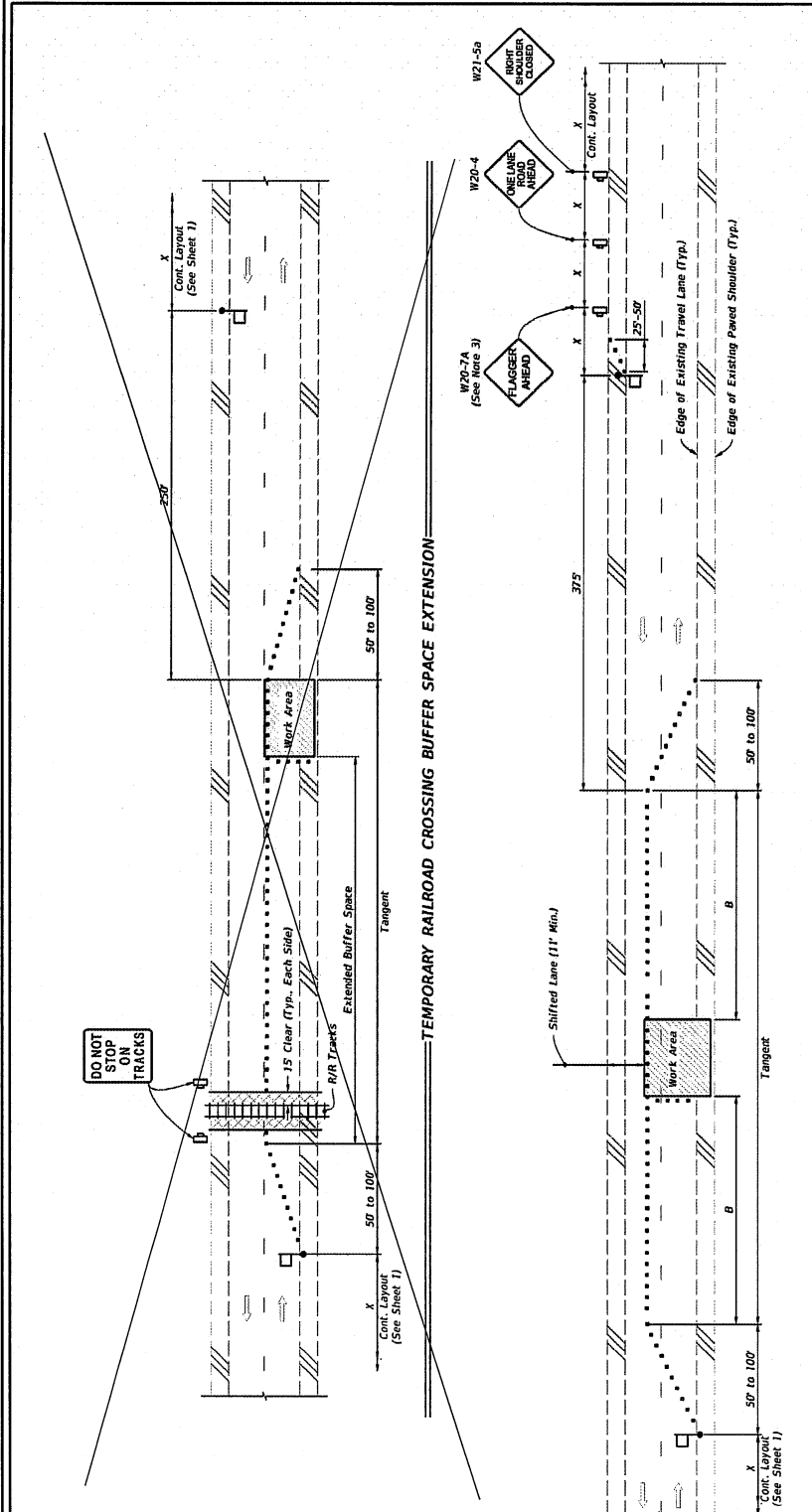
SHEET
1 of 2

BRIDGE NO. 54025

DATE	BY	REVISIONS	DESCRIPTION

COUNTY:	LVO 05-24	STATE OF FLORIDA	SHEET TITLE:
BRIDGE NO.:	102-603	DEPARTMENT OF TRANSPORTATION	STANDARD DETAIL SHEET 102-603(1)
ROAD NO.:	PMK 08-24	ROAD NO.:	146
PROJECT NO.:	102-03-262	COUNTY:	JEFFERSON
		PROJECT NAME:	451309-1-54-01
			BRIDGE OVER WOLF CREEK

REG. DRAW NO. _____
 SHEET NO. 5
 11-4630 AM
 F.A.C. NOTE
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 11/12/2026
 hvtempner



- SYMBOLS:**
- Work Area
 - Channelizing Device (See Index 102-600)
 - Work Zone Sign
 - Flagger
 - Lane Identification and Direction of Traffic

SPECIAL CONDITIONS

TEMPORARY LANE SHIFT TO SHOULDER WHEN WORK AREA ENCLOSES ON THE CENTERLINE
 (For Work Operations in place 24 Hours or Less)

TEMPORARY RAILROAD CROSSING BUFFER SPACE EXTENSION

TEMPORARY LANE SHIFT TO SHOULDER WHEN WORK AREA ENCLOSES ON THE CENTERLINE
 (For Work Operations in place 24 Hours or Less)

BRIDGE NO. 540025

DATE	BY	DESCRIPTION	REVISIONS
11/01/21			

LAST REVISION	DESCRIPTION
11/01/21	

OWNER	LVO 05-24	STATE OF FLORIDA	PROJECT TITLE
DESIGNED BY	RRB 12-24	DEPARTMENT OF TRANSPORTATION	STANDARD DETAIL SHEET 458-110(2)
PK#	08-24	COUNTY	BRIDGE OVER WOF CREEK
HC	05-26	JEFFERSON	
		146	
		451309-1-54-01	

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