

		1			-
INDEX OF SHEETS	5	″тні Not	IS MEDIA BE CONS	SHOUL D I DE RE D	
DESCRIPTION	SHEET NUMBER		A CERTIF DOCUMENT	IED • "	
TITLE SHEET	1	<u> </u>	DATE		_
TYPICAL SECTIONS (TS) (01 SHEETS)	2		DATE PREPA	RED	_
QUANTITIES (QU) (O2 SHEETS)	3	1	2/17/2	012	
PLAN (PL) (X SHEETS)	N/A	ROL 6	9	MO	
PROFILE (PR) (XX SHEETS)	N/A	dist K	rict s	HEET NO. 1	
RIGHT OF WAY (RW) (XX SHEETS)	N/A		COUNTY CLAY		
REFERENCE POINTS (RP)	N/A		JOB NO	B /I	_
COORDINATE POINTS (CP)	N/A	(CONTRACT	ID.	_
SPECIAL SHEETS (SS) (XX SHEETS)	N/A		PROJECT	N0.	_
TRAFFIC CONTROL SHEETS (TC)(7 SHEETS	5) 4-10		BRIDGE N	10.	_
ERUSIUN CUNTRUL SHEETS (EC)					
SIGNING (SN)	1 1				
PAVEMENT MARKING (PM)		z			
CULVERT SECTIONS (CS) (XX SHEETS)	N/A	PTI			
BRIDGE DRAWINGS (B)	17.6	SCRI			
L06562	1-9	DE			
CROSS SECTIONS (XS)	NZA				
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		DAT			
		ZO		— — 6 2 Г	 , ,
		ATI		AP I T 651 -663)))
		ORT		ST C • MD -275) -]
		ANSP		5 wE CITY -888	• •
	`T	ID TR/		10 ERSON DOT (1	
LENGIH UF PRUJEC		S AN		JEFFI K-MO	}
BEGINNING OF PROJECT VARIOUS BRID	GES	GH W A Y S C D M N	Ó	-888-AS	
APPARENT BRIDGE LENGTHS		пт		//]	
L06562 = 406'		UR I	ΣĬ		
TOTAL BRIDGE LENGTHS: 406	FEET	ISSC			
		Σ			_
		1			



GUARDRAIL										
LOCATION	TYPE A	TRANSITION	CRASHWORTHY	BRIDGE	REMARKS					
		SECTION	END TERMINAL	ANCHOR						
			TYPE A	SECTION						
	LF	ΕA	ΕA	ΕA						
NB ROUTE 35 INSIDE LANE	250	1	1	1	PROTECT THE PAVED DITCH					
NB ROUTE 35 OUTSIDE LANE	125	1	1	1						
SB ROUTE 69 RAMP INSIDE LANE	125	1	1	1						
SB ROUTE 69 RAMP OUTSIDE LANE	125	1	1	1						
PAY TOTALS	625	4	4	4						

			REMOVAL	S			
	UNIT	S		REM	MARKS	S	
GUARDRAIL	500	LF	ESTIMATED	LENGTH	NOT	FIELD	MEASURED
PAY TOTAL	1 LUMP	SUM					

MOBILIZATION = 1 LUMP SUM

PREFORMED REM	IOVABLE N	MARKING	ΤΑΡΕ
LOCATION	4 "	REMAF	RKS
	YELLOW		
	LF		
NB ROUTE 69	750		
PAY TOTAL	750		

ASHPALTIC	CONCRETE MIX	TURE PG 76-22 (SP125BSM MIX)
	1 3/4" ASHPALT	
LOCATION	TONS	REMARKS
BRIDGE L0656	151	REPLACE EXISTING BRIDGE OVERLAY
PAY TOTAL	151	EST. FACTOR = 2.301 TONS/CY

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

	"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."	LY SEALED AND DATED.
SUMMARY SHEET	DATE PREPARED 1/14/2013 ROUTE STATE 69 MO DISTRICT SHEET NO COUNTY CLAY JOB NO. J 4 I 2 38 4 CONTRACT ID. PROJECT NO. BRIDGE NO. BRIDGE NO. 0 00000000000000000000000000000000000	I I I I I I I I I I I I I I I I I I I
SHELLIUF Z		REV.

																	″THI NOT	IS MEDIA SHOULD BE CONSIDERED
																	4	A CERTIFIED DOCUMENT."
		TOTAL Q	TY TOTAL						TOTAL QTY TO	DTAL						EFFECTIVE: 05-01-2012) -	
SIGN	SIZE	AREA QTY AREAREI		DESCRIPTION	SIGN	SIZE	AREA	QTY	AREA RELOC RE	ELOC	DESCRIPTION							
	(111.)	WARNIN	IG SIGN		W020-5a	48X48	16.00	2	32	2	RIGHT/CENTER/LEFT LANES CLOSED AHEAD	-					[1	DATE PREPARED
WO1-1L	48X48	16.00		URN (SYMBOL LEFT ARROW)	W020-6a	48X48	16.00	5	80	R	GHT/CENTER/LEFT LANE CLOSED						ROU	JTE STATE
$\frac{1}{1000}$	48X48	16.00		URN (SYMBOL RIGHT ARROW)	W020-7a	48X48	16.00			Fl	AGGER (SYMBOL)							9 MO
W01-2R	48X48	16.00		CURVE (SYMBOL RIGHT ARROW)	W021-5b	48X48	16.00			Sł	IOULDER WORK AHEAD			TY		DESCRIPTION	K	C 3
W01-3L	48X48	16.00	F	REVERSE TURN (SYMBOL LEFT ARROW)	W022-1	48X48	16.00			Bl	ASTING ZONE AHEAD	612-20.08		IN	MPACT ATTENU	JATOR (8 SAND BARRELS)		
WO1-3R WO1-4I	48X48 48X48	16.00		REVERSE TURN (SYMBOL RIGHT ARROW) REVERSE CURVE (SYMBOL LEET ARROW)	W022-2 W022-3	42X36 42X36	10.50			T l	JRN OFF 2-WAY RADIO AND PHONE	612-20.09			MPACT ATTENU MPACT ATTENU	JATOR (9 SAND BARRELS) JATOR (10 SAND BARRELS)		JOB NO.
W01-4R	48X48	16.00	F	REVERSE CURVE (SYMBOL RIGHT ARROW)	W022-6e	21X15	2.19			WE	T PAINT (ARROW PIVOTS)	612-20.12		IN	MPACT ATTENL	JATOR (12 SAND BARRELS)		412384 Contract id.
N01-46L	48X48	16.00		OUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)		36736	0.00		GUIDE SIGN	IS Icr		612-20.14		IN	MPACT ATTENU	JATOR (14 SAND BARRELS)		
W01-0R W01-4cL	48X48 48X48	16.00		RIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)	E05-1	36X36 36X48	12.00	1	12	G	DRE EXIT	612-20.17	,	1 IN	MPACT ATTENU MPACT ATTENU	JATOR (19 SAND BARRELS)	-I F	PROJECT NO.
W01-4cR	48X48	16.00		RIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)	E05-2	48X36	12.00			E	(IT OPEN	612-20.20	1	9 RE	EPLACEMENT S	SAND BARREL		BRIDGE NO.
W01 - 6	60X30	12.50		IORIZONTAL ARROW (SYMBOL)	E05-2a	48X36	12.00			E) R	(IT CLOSED NAD WORK NEXT XX MILES	612-20.30	Λ	1 IN Te	MPACT ATTENU	JATOR ARRAY (RELOCATION)	╏────	
W01-7	60X30	12.50		OUBLE HEAD HORIZONTAL ARROW (SYMBOL)	G020-2	48X24	8.00	6	48	13 EI	ID ROAD WORK	616-10.07	· · ·	SF	PEED LIMIT &	& STROBE LIGHT ASSEMBLY		
W01-7a	72X36	18.00	[OUBLE HEAD HORIZONTAL ARROW (SYMBOL ON BARRICADE	GOZO-4	36X18	4.50			P	LOT CAR FOLLOW ME	616-10.08		A[DVANCED WARN	NING RAIL SYSTEM		
wu1-8 W01-8a	30X36	7.50		CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	GO20-5aP	42X30 36X24	8.(5 6.00	4	24	PL W	.ease wall fur pilui car DRK ZONE (plaque)	612-10.20	3	CF	HANNELIZER (DRUM-LIKE)	z	
W03-1	48X49	16.00		STOP AHEAD (SYMBOL)	M04-8a	24X18	3.00	2	6	E1	ND DETOUR	616-10.22		CH	HANNELIZER (CONES)		
W03-2	48X48	16.00		(IELD AHEAD (SYMBOL)	MO4-9L	48X36	12.00				TOUR (LEFT ARROW)	616-10.24	1 6		HANNELIZER (TRIM-LINE) WITH LIGHT	- H H H H H H H	
W03-3 W03-4	48X48	16.00		BE PREPARED TO STOP	M04-9R M04-10L	48X18	6.00			DE	TOUR (ARROW LEFT)	616-10.26		CH	HANNELIZER (VERTICAL PANEL))E SC	
W03-5	48X48	16.00		SPEED LIMIT AHEAD	M04-10R	48X18	6.00			DE	TOUR (ARROW RIGHT)	616-10.27		CF	HANNELIZER (VERTICAL PANEL) WITH LIGHT		
WO4-1L WO4-1R	48X48 48X48	16.00	1	NERGE (SYMBOL FROM LEFT) Nerge (symbol from right)								616-10.28	F	CH S T S	HANNELIZER	ABLE BARRICADE		
W05-1	48X48	16.00 1 16		ROAD/BRIDGE/RAMP NARROWS					REGULATORY SI	IGNS		616-10.31		י <u>ד</u> י י ד	YPE III MOVE	TABLE BARRICADE WITH LIGHT		
W05-3	48X48	16.00		DNE LANE BRIDGE	R1-1	48X48	13.25			S		616-10.33	3	0 D .	IRECTION INC	DICATOR BARRICADE		
W05-5 W06-1	48X48 48X48	16.00	1	JARROW LANES DIVIDED HIGHWAY (SYMBOL)	R1-2 R1-2a	48 IRI. 36X36	<u> 6.93</u> 9.00			Y T() ONCOMING TRAFFIC (PLAQUE)	616 - 10.34 616 - 10.40		2 FL	ASHING ARR)ICATOR BARRICADE, WITH LIGHT DW PANEL	DATE	
W06-2	48X48	16.00	[)IVIDED HIGHWAY END (SYMBOL)	R1-3	30X9	1.25			X-	-WAY (PLAQUE)	616-10.47		- T`	ype III obje	ECT MARKER		
W06-3	48X48	16.00		WO WAY TRAFFIC (SYMBOL)	R2-1	36X48	12.00	6	72	SF	PEED LIMIT 2-55, 2-65, 1-45, 1-35	616-10.51		W A	ARNING LIGHT	T, TYPE A		TOL 102
w07-30 w08-1	48X48	16.00		BUMP	R3-1 R3-2	48X48 48X48	16.00) LEFT TURN (SYMBOL)	616-10.52		W A	ARNING LIGHT ARNING LIGHT	, TYPE C	T A T	CAPI 0 65 5-66
W08-2	48X48	16.00	[) I P	R3-3	36X36	9.00			N) TURNS	616-10.70		Τι	JBULAR MARKE	ER	0R	ST (• M0
W08-3 W08-4	48X48 48X48	16.00	f k	PAVEMENT ENDS	R3-4 R3-71	48X48 30X30	16.00) U-TURN (SYMBOL) TET LANE MUST TURN LEET	616-10.95		R /	ADAR SPEED A	ADVISORY SYSTEM	NSP NSP	₩E 1174
W08-5	48X48	16.00		SLIPPERY WHEN WET (SYMBOL)	R3-7R	30X30	6.25			R	GHT LANE MUST TURN RIGHT			Fl	JRNISHED/REI	TAINED	L RA	105 0N C
W08-6	48X48	16.00		RUCK CROSSING	R4-1	36X48	12.00			D	NOT PASS	616-10.98	2	2 CH	HANGEABLE ME	ESSAGE SIGN, CONTRACTOR		ERSC
WU8-6C W08-7	48X48 36X36	9.00		.OOSE GRAVEL	R4-2 R4-7aL	36X48 36X48	12.00			K E	EP LEFT (HORIZONTAL ARROW)	616-11.00		CH	HANGEABLE ME	ESSAGE SIGN, CONTRACTOR	I SS	E F F
W08-9	48X48	16.00	l	OW SHOULDER	R4-7a	36X48	12.00			K	EP RIGHT (HORIZONTAL ARROW)			Fl	JRN I SHED/COM	MMISSION RETAINED	NMM NMM	ASK
W08-9a	48X48	16.00		SHOULDER DROP-OFF	R5-1	30X30	6.25) NOT ENTER	616-20.10		1 WC	ORK ZONE LIC	GHTING		
W08-12	48X48	16.00	1	NO CENTER LINE	R6-1L	48X18	6.00			10	NE WAY ARROW (LEFT)	617-36.00	D 39	90 CC	ONTRACTOR FL	JRNISHED/RETAINED TEMPORARY	ΗC	
W08-15	48X48	16.00	(GROOVED PAVEMENT	R6-1R	48X18	6.00			10	NE WAY ARROW (RIGHT)		_	СС	ONCRETE TRAF	FIC BARRIER, TYPE F		
W08-15p W08-17	30X24 48X48	5.00		MOTORCYCLE (PLAQUE) Shouider drop off (symbol)	R6-2L R6-2R	24X30 24X30	5.00			10	NE WAY (LEFT) NF WAY (RIGHT)	-1617-36.02	В		ONTRACTOR FL Emporary con	JRNISHED/COMMISSION RETAINED NCRETE TRAFFIC BARRIER, TYPE F	OUF	ΙΣϾΙΙ
W08-17p	30X24	5.00		CHOULDER DROP OFF (PLAQUE)	R10-6	24X36	6.00			S	OP HERE ON RED (45° ARROW)	617-40.00	Α	TE	EMPORARY CON	ICRETE BARRIER HEIGHT TRANSITION	ISS	
W10-1	42 RND.	9.62		RAILROAD CROSSING	R11-2	48X30	10.00	3	30	R	DAD CLOSED	617-50.10	A 36	50 RE	ELOCATING TE	MPORARY CONCRETE TRAFFIC BARRIER		-
W012-1 W012-2	<u>24X24</u> 48X48	16.00		OW CLEARANCE (SYMBOL)	R11-4	60X30	12.50				DAD CLOSED XX MILES AHEAD LUCAL TRAFFIC UNLY DAD CLOSED TO THRU TRAFFIC				JNNN ISSIUN FU DNCRETE TRAF	FIC BARRIER, TYPE F		
W012-2×	24X18	3.00		OW CLEARANCE (PLAQUE)	S4-4	36X15	3.75			W	IEN FLASHING	617-70.00	В	СС	OMMISSION FL	JRNISHED/RETAINED PRECAST		
NO12-2A	84X24	14.00		OVERHEAD LOW CLEARANCE (FEET AND INCHES)	CONST-3A	60X48	20.00			F	NE SIGN REEDING (PLATE)	620-80 65		BA	ARRIER HEIGH	IT TRANSITION	-	
SPECIAL	120X60	50.00		VIDTH RESTRICTION XX FT XX IN XX MILES AHEAD			- • 0 T	M	IISCELLANEOUS	SIGNS		901-94.00		TE	EMPORARY LIC	GHTING	-	
W013-1	30X30	6.25	,	ADVISORY SPEED (PLAQUE)	CONST-5-96	96X48	32.00	2	64	P	DINT OF PRESENCE	902-94.00		TE	EMPORARY TRA	AFFIC SIGNALS	-	
WU16-2 W016-3	30X24 30X24	5.00		OUU FEET/1000 FEET (PLAQUE) (MILE (PLAQUE)	DFTOUR	(2X36) 36X72	18.00	6	36 108	R,	UUR WURK ZUNE Dute Assembly (numbered route)				-mpurary tr <i>i</i>	AFFIC SIGNALS AND LIGHTING	-	
W020-1	48X48	16.00 10 160	F	ROAD/BRIDGE/RAMP WORK AHEAD	DETOUR	24×12	2.00	3	6	DE	TOUR SIGN ABOVE EX. ROUTE ASSEMBLIES							
NO20-2	48X48	16.00 2 32],	DETOUR AHEAD	DETOUR	42×12	3.5	3	10.5	// //	CLOSED" SIGN ON TRUSS SIGNS						-	
W020-3	48X48	16.00		DNE LANE ROAD AHEAD			J • UU				JEUJEU JIUN UN HIUJJ JIUNJ						-	
W020-5	48X48	16.00 3 48	F	RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10.	05	<u></u>	TOT -]	
					ICUNSTRU	<u>CIION</u> 10	SIGNS	IUTAL	. ((4			₩ USE AS DI	RECTED) by ti	HE ENGINEER			
					RELOCAT	<u>ED SIG</u>	<u>NS TOT</u>	TAL								CHINANADV CULLT		
																SHEFT 2 OF 2		

Sign Spacing, Device Spacing, Channelizing Taper Lengths And Recommended Maximum Speed Reductions

		T APE OF	R LENGTH CHANNEL	IS AND SPACI IZING DEVICES	NG	
SPEED (P)	MINIMUM MINIMUM MAXIMUM CHANNELIZER SPEED (P) TAPER LENGTHS (L) TAPER SPACING SPACING					
MPH	FOR LA	ANE WIDT	HS (W)	SHOULDER (T1)	THROUGH TAPER	THROUGH WORK AREA
0-35	205 FT	225 FT	245 FT	70	35 FT	50 FT
40-45	450 FT	495 FT	540 FT	150	40 FT	100 FT
50-55	550 FT	605 FT	660 FT	185	50 FT	100 FT
60-70	700 FT	770 FT	840 FT	235	60 FT	100 FT
	SIGN	SPACING	FOR AD	VANCE SIGN S	SERIES (1) (2)	

SPEEN (P)		
MPH	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	SA-1000 FT, SB-1500	FT, SC-2640 FT **

** THE SA DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN.

THE SB DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS.

THE SC DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS.

(THE "FIRST SIGN" IS THE SIGN IN A THREE-SIGN SERIES THAT IS CLOSEST TO THE TEMPORARY TRAFFIC CONTROL ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TEMPORARY TRAFFIC CONTROL ZONE)

NOTES: DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

- (1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION
- (2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS
- (3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER.
- (4) CONCRETE BARRIER MAY BE INSTALLED AT AN 8:1 FLARE RATE FROM THE SHOULDER POINT TO THE LIMITS OF THE CLEAR ZONE WHERE THEY SIDE SLOPE IS 6:1 OR FLATTER.

TAPE	R LENGT	hs and e	END TREA	TMENTS FOR CONCRETE BARRIE
SPEED (P) MPH	MINIMUM FOR L	TAPER L ANE WIDT	ENGTHS HS (3)	END TREATMENT (4)
	10 F T	11 F T	12 FT	
<40	160 FT	168 FT	176 FT	BARRIER HEIGHT TRANSITION
<u>></u> 40	160 FT	168 FT	176 FT	APPROVED CRASH CUSHION

EPG TABLE 616.29 RECOMMENDE	D MAXIMUM SPEED REDUCTIONS
ACTIVITY (I.E. WORKERS, EQUIPMENT OR MATERIAL) LOCATION	RECOMMENDED WORK ZONE SPEED REDUCTION (WHEN APPLICABLE)
10 FT. BEYOND EDGE OF TRAVELWAY TO EDGE OF RIGHT OF WAY	NO SPEED REDUCTION
IN TRAFFIC LANE OR WITHIN 10FT. OF THE TRAFFIC LANE	10 MPH
HEAD-TO-HEAD ON MULTILANE	10 MPH
SPECIAL CIRCUMSTANCES WITHIN A TEMP MAY WARRANT A LOWER SPEED LIMIT T LIMIT REDUCTIONS GREATER THAN 10 MI TO AND APPROVED BY THE DISTRICT V	PORARY TRAFFIC CONTROL WORK ZONE THAN RECOMMENDED ABOVE. ALL SPEED PH SHALL BE DOCUMENTED, SUBMITTED VORK ZONE COORDINATOR.
GENERAL NOTES:	
1. SEE STANDARD PLAN 616.10 FOR DETA AND ITEMS NOT SHOWN	ILS
2. EXISTING SIGNS SHALL BE COVERED D WORKING HOURS ONLY IF IN CONFLICT TRAFFIC CONTROL PLANS.	URING WITH
3. NO DIRECT PAYMENT WILL BE MADE FO	R RELOCATING.

- COVERING, UNCOVERING OR REMOVING SIGNS.
- 4. LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS.

ER

DEVICE SPACING TEMPORARY TRAFFIC CONTROL SHEET 1 OF 7

D	ROL 6 IST K	Z JTE 9 RIC C	13 T	REPA	RED 01: ST/ M HEE	2 1 1 2 1 1).	
		(J 4 CON PRC BR	JOB I 2 TRA DJE		Y	4		
DESCRIPTION								
DATE								
MISSOURI HIGHWAYS AND TRANSPORTATIC	COMMISSION				105 WEST CAPITO	JEFFERSON CITY. MO 6510	1-888-ASK-MODOT (1-888-275-6636	







(7)



NOTES:

(1). SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES. (2). SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

- (5). SIGN (43) REQUIRED WHEN RAMP WIDTH IS REDUCED.
- (6). FIVE DEVICE MINIMUM.
- (7). FOR WORK ZONES WHERE DEVICES ARE IN PLACE OVERNIGHT, USE TRIM-LINE CHANNELIZERS.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT." DATE PREPARED 12/13/2012 route STATE MO district KC SHEET NO. COUNTY CLAY JOB NO. J4I2384 CONTRACT ID. PROJECT NO. BRIDGE NO. WEST CAPITOL ITY, MO 65102 388-275-6636) NO AND SS I ΛÏ Т

(4). TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

TRAFFIC CONTROL SHEET 4 OF 7



	" N	тн I : то, а	S ME BE C CEF DOCU	DIA : ONS : TIF MENT	SHO IDEF IED	UL D RE D	D	
DAD DSED	D		ATE F //13 TE ICT / CO CL JOE 4 I ONTR PROJE BRID	PREPA	RED 012 STA MI HEET Y 82 ID.	<u>></u> Те О)		
	DESCRIPTION							
ETOUR SOUTH 35 T	MISSOURI HIGHWAYS AND TRANSPORTATION DATE	COMMISSION	LCCCΣ		105 WEST CAPITOL	JEFFERSON CITY. MO 65102	1-888-ASK-MODOT (1-888-275-6636)	
D" SIGN 29								. 1.1









	1 ROL DIST K	DAT DO DAT 2/ JTE 9 RIC C U	E PF 13 T COU COU COU COU COU COU COU COU COU COU		ARED ARED O1 ST. M HEE 1 Y ID	2 ATE 1 1 4).
		PR	JJE IDC	CT FE N	NO.		
DATE DESCRIPTION							
MISSOURI HIGHWAYS AND TRANSPORTATION	COMMISSION				105 WEST CAPITOL	JEFFERSON CITY, MD 65102	1-888-ASK-MODOT (1-888-275-6636)

D-31

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION U.I.P. & REHAB. EXISTING (70')(100'-120'-100') BUILT-UP PLATE GIRDER SPANS



<pre>Design Loading:</pre>	GENERAL NOTES: Design Specifications: 2002 - AASHTO 17th Edition (New Construction) Load Factor Design Seismic Performance Category A Bridge Deck Rating = 5	GE Mi
<pre>Design Unit Stresses: Closs B-1 Concrete (Supble Paraget) fic = 4,000 psi Closs B-2 Concrete (Supperstructure, except Curb & Paraget) fic = 4,000 psi Reinforcing Steel: Minimum cleanance to reinforcing steel shall be 1 1/2", unless otherwise shown.</pre> Bers bended in old concrete net removed shall be cleanly stribbed ond embedded into new concrete where possible. If length is available, old cords shall extend into new concrete of length is available, old cords shall extend into new concrete of length is available. Old cords shall extend into new concrete of length is available. Old cords shall extend into new concrete of length is available. Old cords shall extend into new concrete of length is available. Old cords shall extend into new concrete of length is available. Old cords shall extend into new concrete of length is available. Old cords shall extend into new concrete of length is available. Old cords shall extend into new concrete of length is available. Old cords shall extend into new concrete of length is available. Old cords shall extend into new concrete of length is available. Old cords shall extend into new concrete of length is available. Old cords in the bridge plans and the state available. Old cording: Protective Coating: System 3 in accordence with Sec 1081. Coating Limits: All existing structure steel and bearings within 10 feet of & oxp. joint at End Bears No. 1 & 3 and at Irr. Bent No. 2. Within three limits. The state of surface preparation of the existing steel shall be in according with Sec 1081 for "Redacting of Structural Steel (System 0, For a length of surface preparation of the existing steel shall be in according Structural Steel. Prime Coat: The cost of the prime coat for existing steel will be coasidered completely covered by the contract unit price per sa. Toot for "Field Application of Inorganic Zine Phiner". The of the prime coal for "System C shall be similar to the color of the field coat will be coasidered completely covered by the contract unit price per sa. tool for	Design Loading: HS20-44 (New Construction)	
 Reinforcing Steel: Minimum clearchee to reinforcing steel shall be 11/2", unless otherwise shown. Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bors shall extend into new concrete at least 40 clameters for smooth bors and 30 diameters for deformed bors. Unless otherwise noted. Concrete Protective Coatings: Projective coaling for concrete benis and piers (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711. Structural Steel Protective Coatings: Projective coaling: System 3 in accordance with Sec 1081. Codting Limits: All existing structural steel and bearings within 10 feel of Q exp. joint at End Bents No. 1 & 5 and at Int. Bent No. 2. Within these limits, thems to be coaled shall include girders. diaphragms, stifteners, bearings and miscel aceus structural steel shall be in accordance with Sec 1081 for "Recoding of Shuctural Steel shall be in accordance with Sec 1081 for "Recoding of Shuctural Steel Shall be considered completely. Prime Coat: The cost of the prime coat for "surface Preparation for Recoating Shuctural Steel". Prime Coat: The cost of the prime coat for existing steel will be considered come etbly covered by the contract unit price per sq. Foot for "Field Application of Inorganic Zinc Primer". Third of the prime coat for system 6 shall be similar to the color of the field coat will be considered come etbly covered by the contract unit price per sq. Foot for "Intermediate Field Coat (System G)". The cost of fine field coat will be considered come of the field coat will be considered come of the field coat of the field coat will be considered completely covered by the contract unit price per sq. Foot for "Intermediate Field Coat (System G)". 	Design Unit Stresses: Class B-1 Concrete (Curb & Parapet) Class B-2 Concrete (Superstructure, except Curb & Parapet) Reinforcing Steel (Grade 60) f'c = 4,000 psi f'c = 4,000 psi	Tr
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<pre>Concrete Protective Coatings: Protective coating for concrete bents and piers (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711. Structural Steel Protective Coatings: Protective Coating: System 6 in accordance with Sec 1081. Coating Limits: All existing structural steel and bearings within 10 feet of Q exp. joint at End Bents No. 1 & 5 and at Int. Bent No. 2. Within these limits: All existing structural steel and bearings within 10 feet of Q exp. joint at End Bents No. 1 & 5 and at Int. Bent No. 2. Within these limits: hearings and miscellaneous structural steel items. Surface Preparation: Surface preparation of the existing steel shall be in accordance with Sec 1081 for "Recoating of Structural Steel (System 6. H or 1)". The cost of surface preparation will be considered completely covered by the contract unit price per sq. foot for "Surface Preparation for Recoating Structural Steel". Prime Coat: The cost of the prime coat for existing steel will be considered completely covered by the contract unit price per sq. foot for "Field Application of Inorganic Zinc Primer". Tint of the prime coat for System G shall be similar to the color of the field coat to be used. Field Coats: The color of the field coats shall be Gray (Federal Standard #26373). The cost of the intermediate field coat will be considered completely covered by the contract unit price per sq. foot for "Intermediate Field Coat (System G)". The cost of the finish field coat will be considered completely covered by the contract unit price per sq. foot for "Intermediate Field Coat (System G)".</pre>	Bars bonded in old concrete not removed shall be cleanly stripped 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 bars, unless otherwise noted.	
<pre>Structural Steel Protective Coatings: Protective Coating: System 6 in accordance with Sec 1081. Coating Limits: All existing structural steel and bearings within 10 feet of & exp. joint at End Bents No. 1 & 5 and at Int. Bent No. 2. Within these limits, items to be coated shall include girders, diaphragms, stiffeners, bearings and miscellaneous structural steel items. Surface Preparation: Surface preparation of the existing steel shall be in accordance with Sec 1081 for "Recoating of Structural Steel (System G, H or I)". The cost of surface preparation will be considered completely covered by the contract unit price per sq. foot for "Surface Preparation for Recoating Structural Steel". Prime Coat: The cost of the prime coat for existing steel will be considered completely covered by the contract unit price per sq. foot for "Field Application of Inorganic Zine Primer". Tint of the prime coat for System 6 shall be similar to the color of the field coat to be used. Field Coats: The color of the field coats shall be Gray (Federal Standard #26373). The cost of the intermediate field coat will be considered completely covered by the contract unit price per sq. foot for "Intermediate Field Coat (System G)". The cost of the finish field coat will be considered completely covered by the contract unit price per sq. foot for "Entermediate Field Coat (System G)".</pre>	Concrete Protective Coatings: Protective coating for concrete bents and piers (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.	
Coating Limits: All existing structural steel and bearings within 10 feet of Q exp. joint at End Bents No. 1 & 5 and at Int. Bent No. 2. Within these limits, items to be coated shall include girders, diaphragms, stiffeners, bearings and miscellaneous structural steel items. Surface Preparation: Surface preparation of the existing steel shall be in accordance with Sec 1081 for "Recoating of Structural Steel (System G. H or I)". The cost of surface preparation will be considered completely covered by the contract unit price per sq. foot for "Surface Preparation for Recoating Structural Steel". Prime Coat: The cost of the prime coat for existing steel will be considered completely covered by the contract unit price per sq. foot for "Field Application of Inorganic Zinc Primer". Tint of the prime coat for System G shall be similar to the color of the field coat to be used. Field Coats: The color of the field coats shall be Gray (Federal Standard #26373). The cost of the intermediate field coat will be considered completely covered by the contract unit price per sq. foot for "Intermediate Field Coat (System G)". The cost of the finish field coat will be considered completely covered by the contract unit price per sq. foot for "Finish Field Coat (System G)".	Structural Steel Protective Coatings: Protective Coating: System G in accordance with Sec 1081.	
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scellaneous: Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

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

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

Areas of slab removal, as shown in plans, are not included in the Estimated Quantities for Removal of Asphalt Wearing Surface.

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TYPICAL SECTION THRU EXISTING DECK

ENERAL NOTES (CONT.):

raffic Handling:

Structure to be closed during construction. See Roadway Plans for traffic control.

Estimated Quantities		
Item		Total
val of Asphalt Wearing Surface	sq. foot	12,191
val of Existing Expansion Joints & Adjacent Concrete	linear foot	176
ve and Replace Curb and Parapet	linear foot	69
Repair	linear foot	128
s B-2 Concrete (Superstructure on Steel)	cu. yard	26.1
tructure Repair (Formed)	sq. foot	510
tructure Repair (Unformed)	sq. foot	170
iring Concrete Deck (Half-Soling)	sq. foot	1000
Depth Repair	sq. foot	600
r Reinforced Polymer Wrap	each	3
forcing Steel (Bridges)	pound	5670
ective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1
nsion Device (Flat Plate)	linear foot	176
ace Preparation for Recoating Structural Steel	sq. foot	3900
d Application of Inorganic Zinc Primer	sq. foot	3900
-mediate Field Coat (System G)	sq. foot	3900
sh Field Coat (System G)	sq. foot	3900

* Curb repair shall be made to the roadway face of curb in accordance with the requirements for Slab Edge Repair (see Sec 704). Repair may extend to the roadway face of parapet.









Sheet No. 2 of 9

CAPITOL MO 65102 WEST TY • 1 88-2

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"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT." DATE PREPARED 12/10/2012 ROUTE STATE I-35 MO DISTRICT SHEET NO. BR 3 COUNTY CLAY JOB NO. J4I2384 CONTRACT ID. PROJECT NO. BRIDGE NO. L06562 CAPITOL MO 65102 75-6636) WEST TY• | 88-2 105 N C AND TI SSION ΥS MM V O



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT." DATE PREPARED 12/10/2012 ROUTE STATE I-35 MO DISTRICT SHEET NO BR - 4 COUNTY CLAY JOB NO. J4I2384 CONTRACT ID. PROJECT NO. BRIDGE NO. L06562 CAPITOL MO 65102 75-6636) × − 8 105 N C AND TR/ SSION S N WAY COM СH НЦ





Detailed Sep. 2012 Checked Oct. 2012

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





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V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE. NO. EA. = NUMBER OF BARS OF EACH LENGTH. NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH) ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH. PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS. FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS. SPLICES OR SPACERS. REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.

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16	*6	31-0	" G!	Bsom	9	#8	40'-3'	· G39	Beam	68 7-7
8	*//	33*3'	' G2	Beam	5	*8	27-9	" G40	Beam	
2	*10	30'-9	* G3	Beam	5	#8	30.0	" G41	Beam	
8	*5	31'-9'	<u>G4</u>	Beom	4	#8	26-9	<u>" G47</u>	Beam	
<u> </u>	<u> 7//</u>	35.0	<u>G5</u>	Beoth	4	8	29'-0	<u> </u>	Beam	2-P6 CUT 24 & 12
		24.6	100	Deam		1-8	34.0	644	Beam	BEND AS SHOWN BE
1	+	18-6	G8	Ren	5		21.0	1 12.1/2	Beam	
3	*//	32'-0'	' G9	Beam	1 5	# <u>15</u>	6.6	G47	Hounch	
4	*//	40-6	GIO	Beam	5	*5	7'-3'	G48	Hounch	
4	*6	9'6	GII	Beam	5	₩G	4'-3"	G49	Haunch	<u>8'43' 13'47</u> 8'-
						<u> </u>	-			
) ~ G	12-3	HI	Wing	59	*3	11'-9'	<u> P10</u>	Column	BEND AS SHOWN
3	÷0 +1	16.0	HX 112	WIMG Block-II	-	ـــــــــــــــــــــــــــــــــــــ	101 000	1.00		8.6" 9.0
10	4	211-2		BLUDI	1 30	#4	13-3"	1020	neam Re	
4	#6	16.6	H5	Wina	<u> </u>	4.4	33		Deam	
4	*6	30.0	HG	Bkwall	8	#9	16-9	V44	Column	
2	*6	3710*	H7	Bkwali	8	#9	7-0"	V45	Column	
				23'4 —	176	#9	8-9	V46	Column	BEN BEN
				······································	16	#9	<u>8'- ō"</u>	<u>V.17</u>	column	COS DE
20	#3	24-0	<u>PI</u>	Co.umn		<u>*9</u>	8'-6	<u>V48</u>	Column	
	*3	25-6	P2 D2	Column	8	<u> "9</u>	19-9	V49	Column	9'-4' 05
16	*3	23-0*	P3 PA	Column	16	=0	101.0	W/	A 12 11 - 11 -	12-10" 07
16	#3	21-9"	P5	Column	1 10	Trat	Bent	Λ/α	A.D. Wells	24-52 G25
					56	#//	15'-0"	DG	Footing	27'1/2" 627
2	"6	16-0"	<u>[]</u>	Wing	8	#11	14'-6"	D7	Footing	21'- 7 22 G3/
2	*6	15'-9*	<u>72</u>	Wing					· · · ·	
2	#6	16-3	73	Wing	24	#6	9 '6'	F5	Col. Hch.	D5-07-625-627-63-633
	-6	16-3	<u>74</u>	Wing	8	*6	10-6"	F6	Col. Hch.	
18	*1	17:9"	111	Barm	.5	# 55	11.2"	6.98		
27	#4	13'-6"	112	Ream	<u>- 0</u>	*5	<u>4</u> 3'- 3"	G25	Hounch	42 ¹ .7" G/2
13	#4	14-3"	Ú3	Beam	10	.#8	28-6	G31	Beam	28'7' GIG
17	#4	12'-9"	U4	Beam	8	*8:	27'-3"	G32	Beam	13'-10" G17
12	#4	13'0"	U5	Beam	10	#8	32-9"	<u>G33</u>	Beam	32'-1' G21
8	-4	<u>4'3"</u>	<u>U6</u>	Beam	5	*8	30-9"	<u>G</u> 34	Beam	<u>34'-10" G23</u>
	#5	10% 0#	- <u></u>		- 9	-"8	<u>40'-0"</u>	G37	Beam	GIZ-GIB-GI/-G2I-G23
5	#5	121-3"	$\frac{V}{V2}$	Wing	52	#2	1140		Calura	2
115)	#5	746"	VS VS	Błewiczil	91	#3	18-6"	PIL	Column	000 BB
6	*6	24-3"	V4	Column	<u>_~~~</u>	<u>-</u> -	<u>/0 ¢</u>			2000
6	"6	2343"	V5	Column	88	#4	13'-0"	UIT	Beam	
6	6	211.3*	V6	Column	25	*4	4'-9"	U18	Beam	<u>8'-/" D9</u>
6	#6	20'-3"	<u> </u>	Column					,,,,,,,,,	9-1" D8
6	*6 #7	20-0"	<u></u>	Column	32	#//	16-3	·V42	Column	<u>26-52" G40</u>
4 1	10 11/2	26-0"	<u>V9</u>	Column	32	#17	<u>7-0"</u>	V43	<u>Column</u>	28'-82" G41
4	*6	23-9"		Column		<u>~~</u>	10- 20	WZ I	A D. Wells	32-52 644
4	#6	22-9-	V/2	Column	64	#10	11'-0"	D5	Footina	D8-D9-G40-G4I-G44-G46
4	*6	22-9"	1//3	Column	24	*6	9'-6"	F5	Col. Hch.	
2	<u>*4 </u>	21-5	V14	Column	8	#6	10'-6"	FG	Col. Hch.	
4	<u>"4</u>	27-6"	<u>V/5</u>	Column	10	*8	25'-9"	G25	Beam	028
- ~	4	X0.9"	<u>V161</u>	Column	8	*8	25'-0'	<u>G26</u>	Berin	6 6 6 6 6
- 4- 2	#4	1,2-3 1,21-94	<u>VII</u> \//2	Column	<u>(;)</u> -	0 #0	29-3	GZ7	Beam	(Ūŋō,
4	#4	24.0	1/19	Column	<u> </u>	0 #8	2015	625	<u> </u>	4'-52" DI
2	*4	171-9	VZO	Column	<u>-</u> -		515	655	DEUM	31:74 GZ
4	*4	22-3"	V2.1	Column	4:	*3	11-9"	P10	Column	<u>33' 4" G5</u>
2	*4	176"	V27	Column					······································	50-10" 56
3	#4	23-3"	1/23	Column	81	#4	12'-9"	Ų15	Beam	<u>38'-10" GIO</u>
7	*6	4'-6"	<u></u>	Bk. Wall	12	#4	4'-6"	U16	Beam	<u>3-74" S/4</u>
						#1		1//		01-92-35-66-610-314
8	*2	194.9*	1/1	AB Welle	32 20	*10 #1A	14.6	V40	Column	
		 	<u> </u>	TITA NAIR	8	#2	23.0"	V41 \10	<u>ABWOlls</u>	
					<u> </u>		<u>-</u>	VV 4 1		

Drawn SEPT. 1954 by K.R.W. Checked Sept. 1954 by H.J.K. & R.H.L.,

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

MISSOURI STATE HIGHWAY DEPARTMENT

CONSTRUCTION CHANGES NOTED HEREON

Sheet No. 2 of 19

FINISHED

L06562, Sht. 11

FED. ROAD STATE FED. AID FISCAL SHEET TOTAL DIST. NO. PROJ. NO. YEAR NO. SHEETS MO. 4.1. - 99 (7) (81. - 9) 5 19 No Size Length Mark Location No. Size Length Mark Location End Bent No.5 End Bent Na.5 Continued 40 #6 5'9" DI Footing 9 '4 3'-6" V33 Bkwall 34 * 4 13'-3" V34 Column 28 *6 8'-9" FI Col. Hch. 2 * 5 10'-0" V35 Rt. Wing 3 *5 /8.3" 4 #6 8'-6" F2 col. Hch. Riwing V36 8 *6 3'0" F4 Col. Hch <u>9 *5 11'0'</u> Rt Wing V37 4 */1 44-3" G12 1 # 4 10'-3" V38 Beom Lt wing 1 * 5 8'-9" V39 Rt. Wing *1: 18-6" G13 Beam 4 #10 28'0" G14 Beam 4 "10 18'-0" G15 8 = 2 19.9. WI A.B. Wells Beam 4 #10 30'-3" GIG Beam 3 #10 15'-6" G17 19 *5 4'-6' CI Beam End Curb 4 #6 31'-9" G18 Beam 1 *5 11'-3" C15 Lt. Curb 4 #6 30'3" G19 4 #6 34'6' G20 Beam #5 11-9" CIG Lt. CUrb Beam #5 | 12'3" | C17 | Lt Curb 9 #11 33'-9" G21 Beam #5 6-0' CI3 Ri Curb 5 *10 32-0' G22 Beam *5 7-3" CIO Rf. Curb #5 8-3" C20 Rt. Curb 5 #10 36-6" G23 Beam 6 *6 29'3" H8 Bkwail 24 "4 31'-3" H9 BKNall 2 * 5 5'-9" HIO Bkwall 3 *6 16'-0" HII L. Wing 5'-9" HIO 6 #6 12:6" HIZ Lt Wing 2 "6 11'-0" H13 Lt. Wing 1 "6 8'-9" HIA Lt. Wing 5 *5 9'-6" HIS Rt Wing 1 *5 17-6" HIG Rt. Wing 4 "5 19'-0" HI7 Rt. Wing 9'-9" H18 Rt. Wing Superstructure 806 #5 4'-6" CI 15'6" H19 Rt. Wing 3 *6 Curb 797 #4 41-0" C2 15'6" H20 Rt. Wing Curb 10 *6 6'-9" H2! R! Wing 20 #5 260" 53 Curb 20 #5 27'-9" C4 6'-9" H22 5 *6 Rt. Wing Curb 4 #6 10-9" H23 Rt ding 25 #5 26'3" C5 20 #5 26'6" C6 Curb Curb

 25
 *5
 25'3"
 C7

 20
 *5
 28'9"
 C8

 12
 *5
 23'0"
 C9

 Curb 24 #3 21-0" PG Column Curb 12 *3 22:0" P7 Column Curb 18 *5 24 6 CIO 2 *5 18 6 CII 12 #3 21'9" P8 Column Çurb CL 38 *6 3'9' R1 End Post 3 *4 11'-3" R2 Lt. Post 1 "5 13'6" C12 Curb 1 "5 17'6" C13 Curb 3 #4 11'-6" R3 LA Post 3 #4 6'-0" R4 RA Post 3 #4 6'-9" R5 Rt. Post 1 #5 21-0" C14 Curt 536 #5 33¹3" SI Slab 268 #5 35'-9" 52 2 #6 15'6' T5 Lt. Post siab 2 *6 16:3" T6 Li. Post 744 *5 29'6' S3 179 *5 36'9' S4 Slab 2 #6 8'-3" 77 Rt. Post 2 #6 16'-9" T8 Rt. Post Slat 154 *5 36°0° \$5 51ab 44 #5 24-0" 36 Slob 39 #4 13-3" U7 Beam 179 *5 32 9" 57 slab 70 *5 26'4' 58 146 *5 30'6' 59 168 *5 28'C' 510 28 #4 13'-9" U8 B⊇am 25 #4 13-6" U9 Beam slab 12 #4 4'-3" UIO Beam <u>slab</u> 9 #5 3!'0" 311 Slab 18 #6 16-0" VIS Column 9 #5 25-6 512 <u>Slob</u> 8 #6 17-9" V26 Column 8 *5 29'-0" 513 Slab 18'-3" V27 Column 24 #6 3:9" R: End Post 6 #6 22-0" V28 Column 12 #4 4'9" R6 Erid Post 4 #6 17'3" | V29 Column 20 #5 4-6" S14 Light Std. Nting 4 #4 13-3" V30 Lit Wing 6 "5 4-9" C15 Light Std. Mtive 24 #5 9"9" V3 Bkwall 4 "5 9'-3" C16 Kight std. Mting 79 #5 18-0" V32 BKWall

BRIDGE OVER FUTURE RT. 69 (RT. LANE)

STATE ROAD FROM ANTIOCH ROAD IN NORTH KANSAS CITY N.E. ABOUT 5 MILES N.E. OF NORTH KANSAS CITY

(RT. 69) **STA.** 430+23.84

CLAY

PROJECT NO. U.I.-09(7)

COUNTY

FINISHED

FINISHED

L-656

L06562, Sht. 13 (1999) 全國和法國國際國家的

L06562, Sht. 14

الافار والاستفاد والدارية المنابية والمستقلية ومن من من المنتخب المن المن والمن المنتخب المن المن والمراجع الم المراجع المراجع المراجع المن المراجع المنابية والمنابية والمنابية المنابية المنابية المنابية المنابية المراجع ال

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ile.	Follow dimensions.		<u></u>		Sheet No. 9 of 19.	FINISHED	
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MISSOURI STATE HI	GHWAY DEPARTMEN	I T	FED, ROAD STATE DIST. NO,	FED. AID FISCAL SHEET TOTAL PROJ. NO. YEAR NO. SHEETS
13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0' 13'0'	14'0" 7'0" 7'0" 13'0 <u>2</u> " Int: Diaphragm	14'0" 14'9" 17'6 Int Diophine CIR. 14"x \$"	ield Splice 20'6" 3" 18'6" 7' 19m Int. Dicphrogm	17-99(7) 19 (KI. 63) 19 114" - & Shop Splice
- R. 14"x 3"	# Bearing Bt # 3-	R. 14"x 5") 20-64"	P. 14"x ==""""""""""""""""""""""""""""""""""	- £ Span (3-4)
<u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>14'0"</u> <u>11'8</u> <u>3'0"</u> <u>13'6"</u> <u>13'6"</u> <u>18'7</u> <u>14'0"</u> <u>13'6"</u> <u>14'0"</u> <u>13'6"</u> <u>14'0"</u> <u>11'8</u> <u>13'6"</u> <u>14'10"</u> <u>13'6"</u> <u>14'10"</u> <u>11'8</u> <u>13'6"</u> <u>11'10</u>	13'0" 16'9 Int. Diaphragm	14"x3" 114/0;	\$ Shop Splice 40'0" 49'0" 30'0" 11'6" 11'6" 23' 4 ³ " Tht. Diaphragm 10 Shear 316\$"	5:0" 2'6 Connector's
IEB FR. 60 'x 3"				
ER NO. I FOR CONTINUOUS SPANS 40:0" E Field Splice	19'-5 ³ " 	1"x 3" 1 1C^1 5 5" 14'0 " + t Find	ÉBe	aring Bt. "5-
0 [§] " <u>13'0</u> [§] " <u>13'0</u> [§] " - Int. Diaphragm - R.14"x [§] " 1	7±0" 7±0" 13±0∰" - Int. Didphragm	13:08" 3:28" 9:108" - Int. Diephragm-	6'-18" 8'75" 7'18" 10'02" -Int. Diaph	+ Shop Splice
R. 14"x 3"	¢ Bearing Bt #3-	C-R.14"x 8")	R. 14"x ³ / ₃ " J	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	E Field Splice 40-0 14-8" 13-6" 4-6'	$\frac{20.69}{4}$	$39^{2}4\frac{3}{4}"$ Shof plice $40^{2}0"$ $6^{2}0"$ $7^{2}6'$ $16^{2}9"$ $11^{2}10\frac{1}{4}"$ 11^{2}	- £ Span (3-4) 13+6" 6'' 2+6
P.14"x8"	FR. 14"x 3"7		ht. Diaphrogm	
DER NO. 2 FOR CONTINUOUS SPANS ote: Pitch of flange rivets shall ot fall above heavy line Stagger pitch at ends of transformed distance of at least "	A" (Theoretical Spacing Line 3" (Theoretical Spacing Line)3" (Theoretical	100-5 <u>5</u> "	<u> 4 Bear</u> n	<u>ng Bt. *5</u>
- 40 - 34/ -	" Note: Spacing in angles shall not For deta stiffener angles sheet No. 11 of 19 Maximum stiffener angles So' 100' 120' & Brg.=	ntermediate stiffener foll above heavy line, ils of intermediate and splices see and splices see spacing of intermediate not to exceed 4:32".	BRIDGE OVER FUTURE RT.69 STATE ROAD FROM ANTIOCH ROAD IN NORT ABOUT 5 MILES N.E. OF NORTH KANSAS PROJECT NO. U.I99(7) (RT.69) STA. 430+2 CLAY COUNTY	(RT. LANE) H KANSAS CITY N.E. CITY 23.84 FINISHED
Follow dimensions.	TLIVLA ANGLE SPACING	Sheet No. 13 of 19 FINISHED	FINISHED	L-656

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MISSOURI STATE HIG	SHWAY DEPARTA Field Splice	AENT			FED. ROAD DIST, NO.	STATE FED. AID FISCAL PROJ. NO. YEAR	SHEET TOTAL NO. SHEETS
2'	19:5 3 " 14:0"	14:0"	E Field	Splice	5	WO. U.I53(7) 19 (Rf. 63) 19	
15:0' 13:0	0å" 13'0'z" ;	7:0"	17-10-5"	16131	18:0'		E Shop Splice
- Int. Diaphragm	(R.14"x 5")		nt. Diaphragm		Int. Diaphre	2-95"	
				(^h	14 × 3 7		
₩ ₩ 14", ³	R. 14"x \$".)			T P I	(¹ , 3), 1		
	# Bearing Bt #3-	20-64"		- 12, 12 	74"		4 Span (3A)
							L Spair (SH)
20-55"	40	- <i>0</i> "		Shop Splice	40'-0"		
7:0" 7:0"		······································		56'0" 40'-0"	740.	13-6"	
hragma Int Diophragm	IG'-8"Int. D	IB'O" Diaphragm	18:0"	13-6"		16-9"	26
FR.14"x5"	ſ P.	14"x 3"7				. שמשחר שמשחר שמשחר שמשחר	
E # Bearing Bt #1	C_R.1	4"x "="]					
- 3"		100-55"				EBearing Bt. *	5-
ATION GIRDER NO. 3 FOR CON	TINUOUS SPANS						
40'0"	Field Splice 19-54"		Field S	oplice	c	t Shon Solice	
	<u>14'0"</u> <u>7'0"</u>	14'0" 7'0"		/	27:1	2"	
14-92" 15-0" It. Dicphragm-	Int. Diaphragm	13-0 = ···	13-02"	13'02"	13-05"	10-14"	
1"x3" 7	(R. 14"x 5"7				R. 14"×3"		
" ³ " _	d Bearing R+#2	C P. 14"x 8"		R.14"x8"			
		20-64"			41'- 9 4 "		-£ Span (3-4)
20155"	r & Field Splice	101 01	p-et -	Shop Splice			
0" <u>14'0"</u> 7'0" 7'0"		40-0		49'0"		15:0*	
6-7" <u>8-5</u> " <u>18-0</u>	12:0"	16'8"		18:0"	<u>9'0"</u> 18:0"	6-102="	26
7 Int. Diaphrai	9/17	-Int Diaphragm - P. 14"x3"			Diaphragh		
		¥					
, /		- P 14" x 3"					
			0:5 ⁵ "			400 ·	
" _ # Bearing Bt. #4		11.11	<u> </u>			EBearing Bt. 3	
ATION GIRDER NO. 4 FOR CON	ITINUNUS SDANS						1
ATION GIRDER NO. 4 FOR CON	ITINUOUS SPANS						-
ATION GIRDER NO. 4 FOR CON	ITINUOUS SPANS			Bridge over	FUTURE RT.	69 (RT. LANE	<u>-</u>)
ATION GIRDER NO. 4 FOR CON	ITINUOUS SPANS			BRIDGE OVER STATE ROAD FROM	FUTURE RT.	69 (RT. LANE North kansas cit	<u>-</u>) Y N.E.
ATION GIRDER NO. 4 FOR CON	ITINUOUS SPANS			BRIDGE OVER STATE ROAD FROM ABOUT 5 MILE N.E PROJECT' NO. U.I-99	FUTURE RT. ANTIOCH ROAD IN I OF NORTH KANSAS	69 (RT. LANE North kansas cit 5 city 430+23.84	<u>-</u>) Y N.E.
ATION GIRDER NO. 4 FOR CON	ITINUOUS SPANS			BRIDGE OVER STATE ROAD FROM ABOUT 5 MILE N.E PROJECT' NO. U.I99 CLAY	FUTURE RT. antioch road in 1 of north kansas (7) (rt.69) sta. COUNTY	69 (RT. LANE North kansas cit 5 city 430+23.84	E) Y N.E.

		NO CONSTRUCTION CHANG
not to scale.	Fallow dimensions.	Sheet No.15 of 19
		- · ·

FED. ROAD DIST. NO.	STATE	FED. A1D PRO NO.	FISCAL YEAR	SHEET NO.	TOTAL SHE TTS
5	MO,	4.I 39(7) (P+ (49)	19		

ineria Teo

34276134276	3 <u>4"2"2"2"2"</u>	21/13/1/15 2 1/1	1/1/1/ 1/2 / 1/2 3 "	150 131 121 121 11 11	134/154/211/22"	18/2/1/2/25/	221/18/2#2/13 "	3"21"23"2"	3 <u>3</u> 22323323	33, 25, 2 * 22"	34,24,12,1,2",12"	28 1 <u>5</u> / " 11"	2 th 15" 3" 16"
3 to (S/8	5/8 of B	S/8 earing.	5/8	S/8	S/B 5	5/8	S/8	S/B Cento	S/8	S/8 Bea	S/8	5/B

L06562, Sht. 25

at about 12" centers in curb

u kanangkatan di mérupat panan kanan tang menungkatan di sang di sang di sang di sang kanan tang kanan di ang b

FED. ROAD DIST. NO.	STATE	FED. AIU PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	мо,	U.I. 99(7) (Rt.69)	19		

Note: See Sheet 18 of 19 for curb and end Post details.

2'-9" Note: Curbs to be cast 18" 15" Independ tly of Slab. 17" I" II" Space dowel bars Cl and C2 _/7" Slab to be constructed to a

uniform depth of not less than 7; or if desired, the bottom of slab may ic Curve be built on chords between tops Top of Slab of hounches at stringers.

5" Ring Fill

#5-51.54,55,58ar 59-– Use‡" bevel strip Const. Joint L-L-4"X4"x5" 5 P-100

L-4"x3"x7

L-4×4×=

BRIDGE O	VER FUTURE RT.69 (RT.	LANE)
STATE ROAL ABOUT 5 M PROJECT NO	D FROM ANTIOCH ROAD IN NORTH KA MILES N.E. OF NORTH KANSAS CITY D. U.L-99(7) (RT.69) STA. 430+23.84	NSAS CITY N.E.
CLAY	COUNTY	FINISHED
i	FINISHED	L-656

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i	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO,	YEAR	SHEET NO.	TOTAL SHEETS
	5	MO.	U.I99(7) (KI.49)	19		<u> </u>

and the second second

BRIDGE OVER FUTURE RT.69 (RT. LANE) STATE ROAD FROM ANTIOCH ROAD IN NORTH KANSAS CITY N.E. ABOUT 5 MILES N.E. OF NORTH KANSAS CITY PROJECT NO. U.I.- 99(7) (RT. 69) STA. 430+23.84

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COUNTY

FINISHED

L-656

FINISHED

MISSOURI STATE HIGHWAY DEPARTMENT 78'G" Chord Prof. Gr. Elev. 938.17 of 102'0" Chord ____ 182-011231 Fill Face of End Bt. No. 3 -18-55'-52 Fill Foce of End Bt. No. 1~ Note: All loose, shelly or disintegrated rock was removed and the footings placed on hard, solid, undisturbed rock. & Bt. No. 2 101-114" 78'-5Å 131-5-11 121.5=" Point of Min. Vert. clear. 12:28 11-38 23'-64" (Sto. 433+24.34 (Sta. 432+ 04.34 (Prof. Gr. Eley. 937.52 101-11: (102'-0"along Cho Prof. Gr. Elev. 939.20 Prof. Gr. Elev. 938.45 1051-83" (1051-9" along Chord) 120'-0" (120'0" along Chord) 406'-1" (406'-3" on Chords) PLAN GENERAL NOTES: Design Specifications: A.A.S.H.J. -: 953 Loading: H20-516-44 Structural Steel Stress: 18,000 %" Reinforcing Steel Stress: 18,000 %" Concrete, Class "B" Stress: 1,000 %" All concrete shall be Class "B". (Air-Entrained) Rivets 1", holes fa" event as rated. Event Field connections were made by high tensile steel bolts with carburiled washers in place of rivets. (See Special Provisions) For requirements on welding electrodes see Special Provisions. Qualitication of welding operators was required. All girders over 55 teet in length were shipped by rail to the specified shipping point. Where joint filler is specified on the plans it conformed with the real rements for Gray Rubber Compound Joints as given in section 38-198(2) of the Standard Specifications. A rubbed surface finish was required on all exposed surfaces of concrete end posts above top of curbs. Paint Shop, none; Field, contact surfaces of balted field connections, except where high tensile balts are used, one coat of red lead and surfaces inaccessible ofter crection three coats of red lead. All other exposed surfaces first cost red lead, second coat brown, third coat aluminum. Payment for cleaning and painting such surfaces was included in price bid for items painted. einiehed Sheet No. 1A of 8

— Const Joint 3Keys 16"x 10" x2"

MISSOURI STATE HIGHWAY DEPARTMENT - E-Roadway C Fill Face 35'-5%" 11'-8ª 79-#4-V2 @ 12" cts. (Splice with existing vertical steel) 41'-8"" Prof. Gr. Elev. 938.76 e Fill Face -2-*G-HG 2-#G-HG-2-4-H7-Remove old concrete to this existing net. Joint. ELEVATION 47'-3 2" 19-"4-V2C12" cts. (Splice with existing vertical sleet) - E-Roadway e Fill Face t-Roodway Elev. 939.25 -@ Top: Of Curb "G-HG-(Тор) *G-НС (Тор) -*4-H7----(Bottom) المحكمين _____ PLAN Note: See Sheet No.3 for plan and details of End Posts See Sheet No.3 for Part Sections 8:8 & C-C. END BENT NO. 5 DETAILS OF Sheet No. 2 of 14

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	5	

MISSOURI STATE HIGHWAY DEPARTMENT

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	FED. ROAD STATE FED. AID DIST. NO. PROJ. NO.	FISCAL SHEET TOTAL YEAR NO. SHEETS	
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	Fill Face	of et #5	
TURAL STEEL			
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TEMPERATURE °F	DIMENSION	DIMENSION	DIMENSION "C" (MAXIMUM)
110	17-5/8"	20-3/4"	2"
90	18-1/4"	21-3/8"	2-5/8"
70	18-3/4"	21-7/8"	3-1/8"
60	19-:/4"	22-3/8"	3-5 / 8"
50	19-5/8"	22-3/4"	4 ^p
40	20"	23-1/8"	4-3/8"
30	20-1/2"	23-5/8"	4-7/8"
10	21"	24-1/8"	5-3/8"
-19	21-5/8"	24-3/4"	5 ^{n.}

DETAILS OF STEEL REINFORCED ELASTOMERIC EXPANSION JOINT SEAL AT BENT NO. 2

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FED. ROAD	STATE	FED, AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ, NO.	YEAR	NO.	SHEFTS
5	MO,		19	9	

BY THE MANUFACTURER AND AS SET FORTH IN THE SPECIAL PROVISIONS. ANCHORS SHALL BE CONE EXPANSION TYPE, PAYMENT FOR FURNISHING AND INSTALLING THE EXPANSION JOINT. INCLUDING ANCHOR BOLT ASSEMBLY, SHALL BE MADE UNDER UNIT PRICE BID PER LINEAL

TYPE), ON BOTH SIDES OF THE EXPANSION VOID AT A DISTANCE OF 7-13/16" FROM THE EDGE OF THE CONCRETE. LAYOUT TRANSVERSE HOLE SPACING IN ACCORDANCE WITH THE SHOP DRAWINGS AND THE TYPICAL LAYOUT AS SHOWN ON PLANS. INSURE THAT THE HOLES. ARE DIRECTLY OPPOSITE EACH OTHER (SQUARE). DRILL HOLES 3-1/4" DEEP FOR 3/4

A DEPTH OF 1/2" AND PUSH PLUG DOWN TO SMAP LOCK. SCRAPE OFF ALL EXCESS SEALANT.

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TABLE OF VARIABLE DIMENSIONS								
TEMPERATUR °F	PERATURE DIMENSION DIMENSI DIMENSION DIMENSI DIMENSI DIMENSI DIMENSI DIMENSI DIMENSI D							
110	7-5/8"	9-3/8"	111					
90	8"	9-3/4"	1 -3/8"					
70	8-1/4 ⁿ	10"	1-5/8"					
60	8-1/2"	10-1/4"	1 -7/8"					
50	8-5/8"	10-3/8"	2"					
.40	8-3/4"	10-1/2ª	2-1/8"					
30	9 "	10-3/4"	2-3/8"					
10	9-1/4"	11"	2-5/8"					
-10	9-5/8"	11-3/8"	3"					

FROM THE EDGE OF THE CONCRETE. LAYOUT TRANSVERSE HOLE SPACING IN ACCORDANCE WITH HOLES ARE DIRECTLY OPPOSITE EACH OTHER (SQUARE). DRILL HOLES 2-1/4" DEEP FOR 1/2"

FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
5	MO.	······································	19	10	

ED. ROAD	STATE	FED, AID PROJ. NO,	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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		50.5	CURB	20			5	0 3.000							50 3	50 3	
	4	507	CURB	20			5	0 0.000	<u> </u>				┥ ┈┈╴	` 	59 6 50 0	59 6 50 0	
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	4	5C9 5C10	CURB	20			5	2 10.000				·		 	52 10	52 10	<u> </u>
	4	5C11	CURB	20			- 54	4 3.000				-}		1 2	54 3	41 1 54 3	
	1	6C12	CURB	20				7 8.000							78	78	
		6C13 6C14	CURB	20			• • 11	o 2.000		· · · · · · · · · · · · · · · · · · ·	<u> </u>	╉┈┈╼╴			6 2	6 2	ļ
	1	6C15	CURB	20		<u> </u>		1 11.000			<u> </u>	+		· · · ·	11 11	11 11	-
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WAY DEPARTMENT

不吃-----6d or 22" Min. I I Л \$~<u>D</u> AorG 135 ° E Beom £ Beam STIRRUP HOOK DIMENSIONS

	GRAD	ES 40-50	-60 KSI	
BAR	D	90°HOOK	135° H	icok
SIZE	(IN.)	HOOK A OR G	HOOK A OR G	APPROX. H
#3	1½"	4"	4"	21/2"
#4	2"	4½"	4½"	3"
#5	2½"	6"	5½"	3¾1
#6	3"	6½"	6½"	4½"

NOTE UNLESS OTHERWISE NOTED DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR

Detailing Hook Dimension Ad or 22 Min.

A cr G

D-49 (h] 90° SIZE OF 90° HOOKS (ALL GRADES) AND 180° HOOKS (GRADE 50 KSI) D = 6d FOR #3 THRU #8 D = 8d FOR #9, #10 AND #11 D = 10d FOR #14 AND #18

<u>....</u>.

2

Detailing

Dimension

SIZE OF 180° HOOKS (GRADE 40 KSI) D = 5d FOR #3 THRU #11. D = 10d FOR #14 AND #18.

> END HOOK DIMENSIONS 180º HOOKS 90º HOOKS BAR GRADE 40 GRADE 60 ALL GRADES SIZE A OR G J A OR G AORGJ #3 ΄5^π 2¾" 5" 3" 6" #4 3½" 6" 6" 4" 8¹¹ **#5** 7 " 4½" 7" 5 " 10" _____ #6 **8** " 5¼″ 8" 6" 12" #7 9" 6½' 10" 7" 14" 10" #8 7" 11⁰ 8" 16" 12" #9 15" 8" 11¼ⁿ 19" #10 13" 17" 12¼" 9" 22" í 4 " 10º 19" 14¼" 2' - 8" #11 #14 21.52" 20½" 2'-2" 20½" 2'-7" 2:-3" 3'-5" #18 21-11" 2'-11" 2' - 3"

NOTE ALL STANDARD HOOKS AND BENDS OTHER THAN 180 TSG. TO BE BENT WITH SAME PROCEDURE AS FAR 90 DEG. STANDARD HOOKS.

NOTE HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET. NOMITIAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING

DIAGRAMS AND ARE LISTED FOR FABRICATORS USE.

PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS. H - HIGH STRENGTH (ASTM A-615 GRADE 6U)

S - STIRRUP

X - BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES. LENGTH - TOTAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE

NEAREST INCH V - BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.

Sheet No. 13 of 14.

NO. EA. - NUMBER OF BARS OF EACH LENGTH. *ALL HOOKS AND BENDS FOR SHAPE NO. 12 (only) ARE BASED ON D = 5d.

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L06562, Sht. 49

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272	6\$3	SLAB	ť	20			1	2	2	1.000								
		INCR = 2.000 IN			П			2	24	7.000						<u></u>		
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284	6512	BLAB		20		Ī		2	2	2.000								
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MISSOURI STATE HIGHWAY DEPARTMENT

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