



**Missouri Department of Transportation  
State Culvert Inspection Report**

August 08, 2023  
8:25:56AM

COUNTY: JACKSON

DISTRICT: KC

CLASS: STATCUL

FED-ID: 9933

BRIDGE: Y0024

**\*\*\*GENERAL STRUCTURE INFORMATION\*\*\***

**\*\*\*CULVERT INSPECTION INFORMATION\*\*\***

ROUTE: RTFS  
FEATURE: PHILLIPS CR  
STATUS: A-OPEN  
LOG MILE: 7.351  
DETOUR: 30.00 MILES  
NHS: NO  
BUILT: 1910  
REHAB:  
LOCATION: S 4 T 47 R 29 W  
LATITUDE: 38 54 40.44 (DMS)  
LONGITUDE: 94 7 59.91 (DMS)

# SPANS: 1  
LANES ON: 2  
FILL DEPTH:  
COMPASS DIRECTION: NORTH to SOUTH  
DIRECTION OF TRAFFIC: 2-WAY TRAF  
FUNCTIONAL CLASS: RL-MAJOR COLLECTOR  
NBI OWNER: MODOT  
NBI MAINTAINED: MODOT  
MAINTENANCE DISTRICT: KC  
MAINTENANCE COUNTY: JACKSON  
SUB AREA: 7C18

PLACE CODE: 75598 VAN BUREN  
LENGTH: 70 FT 0 IN  
MAXIMUM SPAN: 40 FT 0 IN  
APPROACH ROADWAY: 24 FT 0 IN  
CURB TO CURB: 40 FT 0 IN  
BARREL LENGTH:  
AADT: 3714  
AADT YEAR: 2022  
AADT TRUCK: 11.1%  
FUTURE AADT: 5200  
FUTURE AADT YEAR: 2042

DATE: 11/22/2021 RESPONSIBILITY: DISTRICT  
FREQUENCY: 24 CALCULATED INTERVAL\*\*: 24  
TEAM LEADER: JESSE ELSEMAN ELEMENT: NO  
INSPECTOR 2: TERRY L SHUNAMON INSPECTOR 4:  
INSPECTOR 3:  
\*\* When calculated interval exceeds the frequency, a justification comment per BIRM is required.

**GENERAL INSPECTION COMMENTS**

**\*\*\*SPECIAL INSPECTION INFORMATION\*\*\***

**\*\*\*UNDERWATER INSPECTION INFORMATION\*\*\***

DATE: RESPONSIBILITY: CATEGORY:  
FREQUENCY: CALCULATED INTERVAL\*\*: NBI:  
TEAM LEADER: INSPECTOR 3: METHOD:  
INSPECTOR 2: INSPECTOR 4:

DATE: RESPONSIBILITY: CATEGORY:  
FREQUENCY: CALCULATED INTERVAL\*\*: NBI:  
TEAM LEADER: INSPECTOR 3: METHOD:  
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
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DATE	FREQUENCY	CATEGORY	NBI	CALCULATED INTERVAL	RESPONSIBILITY	METHOD
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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  
Ton 1: Ton 2: Ton 3: PROBLEM: PROBLEM DIRECTION:  
COMMENTS:

**\*\*\*GENERAL COMMENTS/MAJOR RATED ITEMS\*\*\***

GENERAL COMMENTS: (BS1000BP, 05/18/2001)--Comment 1: 45'CONC ARCH SPAN

[ITEM 62] CULVERT: 4-POOR CONDITION  
RATING : 12/12/2017

COMMENTS: (OTISL1, 12/03/2015)--SPALLS WITH REBAR EXPOSED  
(OTISL1, 11/30/2021)--WIDE CRACKING @ UPSTREAM HEADWALL & WINGS LARGE SPALLS WITH EXPOSED REBAR



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[ITEM 61] BANK/CHANNEL: 5-MAJOR DAMAGE  
RATING : 12/12/2017

COMMENTS: (KIMM1, 12/12/2017)--LEVEL SCOUR BEHIND NORTH WING WALLS

[ITEM 113] SCOUR: 5-FOUNDATION STABLE  
RATING : 12/12/2017  
EVALUATION TYPE :

COMMENTS: (OTISL1, 12/14/2017)--SPREAD FOOTING EXPOSED ON ROCK WITHOUT UNDERMINING  
(OTISL1, 11/30/2021)--SW WINGWALL WITH EROSION BEHIND WINGWALL

[ITEM 71] WATERWAY ADEQUACY: DECK ABOVE FLOOD ELEV  
RATING : 05/18/2001

COMMENTS:

[ITEM 72] APPRRDWY ALIGNMENT: 6-SATISFACTORY  
RATING : 05/18/2001

COMMENTS:

**\*\*\*RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS\*\*\***

[ITEM 36A] BRIDGE RAILING RATING: NOT PROVIDED-0

RATING : 05/18/2001

COMMENTS:

<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>
REINFORCED CONCRETE	CURB	BOTH	
REINFORCED CONCRETE	BALUSTER	BOTH	
GALVANIZED STEEL	W-BEAM	BOTH	

[ITEM 36B] TRANSITION RAILING RATING: NOT PROVIDED-0

RATING : 05/18/2001

COMMENTS:

[ITEM 36C] APPROACH RAILING RATING: MEETS CURRENT STANDARDS-1

RATING : 05/18/2001

COMMENTS:

[ITEM 36D] RAIL END TREATMENT RATING: MEETS CURRENT STANDARDS-1

RATING : 11/30/2021

COMMENTS:

<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>
GALVANIZED STEEL	TURN DOWN SECTION > 45	ALL	

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

<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>CONDITION*</u>	<u>COMMENTS</u>
ASPHALT	BITUMINOUS MAT	BOTH	GOOD	

**\*\*\*BANK AND DECK PROTECTIVE COMPONENTS\*\*\***

**DECK PROTECTIVE COMPONENTS:**

<u>SERIES TYPE-#</u>	<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>THICKNESS</u>	<u>YEAR APPLIED</u>	<u>MANUFACTURE</u>	<u>OVERALL CONDITION</u>
MAIN SERIES-1	WEARING SURFACE	ASPHALT	BITUMINOUS SEAL COAT				
<u>COMMENT:</u>							
	DECK PROTECTION	NOTAPPLICABLE	NONE				
<u>COMMENT:</u>							
	MEMBRANE	LIQUID SEALANT	BUILT-UP				
<u>COMMENT:</u>							



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**BANK PROTECTION COMPONENTS:**

<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>
BANK PROTECTION	EARTH FILL	BERM		

\*\*\*DECK COMPONENTS\*\*\*

<u>SPAN TYPE-#</u>	<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>COMMENTS</u>
MAIN SPANS-1	DECK	REINFORCED CONCRETE	CAST-IN-PLACE	

\*\*\*SUPERSTRUCTURE COMPONENTS\*\*\*

<u>SERIES TYPE-#</u>	<u>SPAN TYPE</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>		
MAIN SERIES-1	SIMPLE SPAN	REINFORCED CONCRETE	ARCHED CULVERT			
	<u>SPAN</u>	<u>COMPOSITE INDICATOR</u>	<u>LENGTH</u>			
	MAIN SPANS-1	NON-COMPOSITE	40 FT 0 IN			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>		<u>COMMENT</u>
	LONGITUDINAL CRACKS	THROUGHOUT		OPEN		
	REBAR EXPOSED	THROUGHOUT		FEW		
	SPALLS	THROUGHOUT		MODERATE		(OTISL1, 11/30/2021)--EDGES

<u>ASSOCIATED COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
HEADWALL	REINFORCED CONCRETE	CAST-IN-PLACE			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>
	REBAR EXPOSED	THROUGHOUT		MINOR	
	SPALLS	THROUGHOUT		LARGE	
TOEWALL	REINFORCED CONCRETE	CAST-IN-PLACE			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>
	VERTICAL CRACKS	THROUGHOUT		OPEN	

\*\*\*SUBSTRUCTURE COMPONENTS\*\*\*

<u>SUBSTRUCTURE</u>	<u>SKEW</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>			
ABUTMENT-1		REINFORCED CONCRETE	GRAVITY				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	<u>ASSOCIATED COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>				
	FOOTING	REINFORCED CONCRETE	TIMBER PILE				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>		<u>COMMENT</u>	
	STEM	REINFORCED CONCRETE	CAST-IN-PLACE				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>		<u>COMMENT</u>	
	LEACHING	THROUGHOUT		MODERATE			
ABUTMENT-2		REINFORCED CONCRETE	GRAVITY				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	<u>ASSOCIATED COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>				
	FOOTING	REINFORCED CONCRETE	TIMBER PILE				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>		<u>COMMENT</u>	
	STEM	REINFORCED CONCRETE	CAST-IN-PLACE				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>		<u>COMMENT</u>	
	LEACHING	THROUGHOUT		MODERATE			



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\*\*\*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.

<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>
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\*\*\*REQUESTED WORK ITEMS\*\*\*

GENERAL WORK COMMENTS:

<u>RESPONSIBILITY</u>	<u>LOCATION</u>	<u>ITEM</u>	<u>CATEGORY</u>	<u>PRIORITY</u>	<u>DATE</u>	<u>WORK ITEM COMMENT</u>
DISTRICT SPECIAL	SEE COMMENT	REPAIR EROSION	SLOPE	2	11/20/2017	(OTISL1, 11/30/2021)--RUNOFF CREATING EROSION BEHIND NORTH & SW CORNER WINGWALLS

\*\*\*UTILITY ATTACHMENTS\*\*\*

<u>UTILITY</u>	<u>OWNER</u>	<u>METHOD</u>	<u>MEASUREMENT TYPE</u>	<u>VALUE</u>	<u>NUMBER</u>	<u>UTILITY ATTACHMENT COMMENT</u>
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\*\*\*PROGRAM NOTES INFORMATION\*\*\*

<u>YEAR</u>	<u>PROJECT #</u>	<u>MONTH LET</u>	<u>YEAR LET</u>	<u>ITEMS</u>	<u>COMMENT</u>
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\*\*\*COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS\*\*\*

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.

<u>Rated Item</u>	<u>Rating</u>	<u>Rating Date</u>
[Item 67] Structure Evaluation Rating:	4-MEETS MINIMUM TOLERABLE	3/8/2022
[Item 68] Deck Geometry Rating:	6-EQ TO PRESENT MIN CRITR	3/8/2022
[Item 69] Underclearance:	N-NOT APPLICABLE	3/20/2002
Sufficiency Rating:	29.3%	3/8/2022
Deficiency:	STRUCTURAL	2/1/2006
Funding Eligibility:	----	----
Estimated New Structure Length:	----	----
Estimated Structure Cost:	----	----
Estimated Total Project Cost:	----	----
Year of Cost Estimate:	----	----

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.

\*\*\*ADVANCED SIGN INFORMATION\*\*\*

<u>SIGN #</u>	<u>SIGN TYPE</u>	<u>PROBLEM</u>	<u>PROBLEM DIRECTION</u>
1			

\*\*\*OUTFALL INSPECTION INFORMATION\*\*\*

# OUTFALLS: 0	INSPECTOR: CURT STEGEMAN
STATUS: NONE	DATE: 11/01/2019
NOTES:	

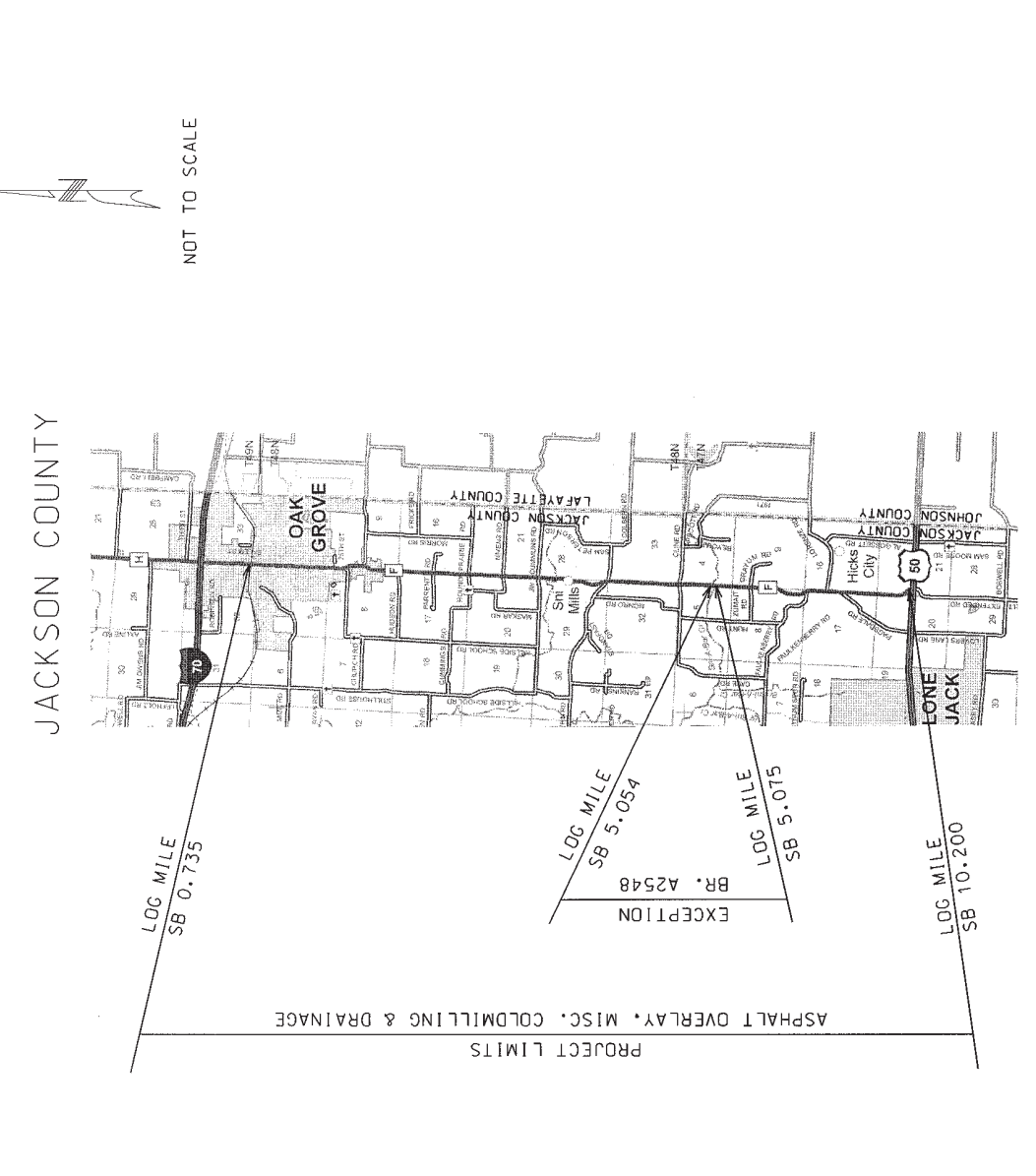
# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION PLANS FOR PROPOSED STATE HIGHWAY

**DESIGN DESIGNATION**

A.A.O.T. - 2009 = 6923  
 T = 1.7%  
 V = 55 M.P.H.

**FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR**

NO RIGHT-OF-WAY TO BE REQUIRED



DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TSS) (3 SHEETS)	2
QUANTITIES (Q) (3 SHEETS)	3
PLAN-PROFILE (PP)	N/A
RIGHT OF WAY (RW)	N/A
REFERENCE POINTS (RP)	N/A
COORDINATE POINTS (CP)	N/A
SPECIAL SHEETS (SS)	4-7
TRAFFIC CONTROL SHEETS (TC)	8-11
EROSION CONTROL SHEETS (EC)	N/A
LIGHTING (LT)	N/A
SIGNALS (SG)	N/A
SIGNING (SN)	N/A
PAVEMENT MARKING (PM)	N/A
CULVERT SECTIONS (CS)	N/A
CROSS SECTIONS (XS)	N/A

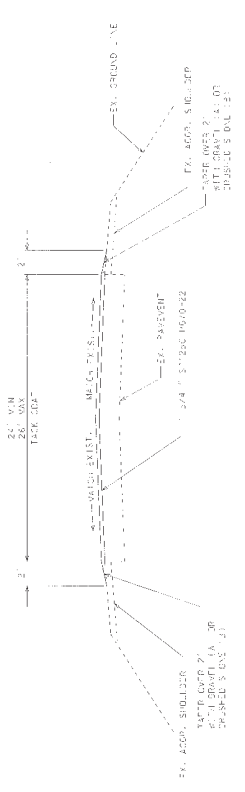
LENGTH OF PROJECT	
BEGINNING OF PROJECT	LOG MILE 0.735
END OF PROJECT	LOG MILE 10.200
APPARENT LENGTH	9.465 MILES
EQUATIONS AND EXCEPTIONS:	
BR. A2548	LOG MILES 5.054 - 5.075
TOTAL CORRECTIONS	0.021 MILES
NET LENGTH OF PROJECT	9.444 MILES
STATE LENGTH	9.444 MILES

**CONVENTIONAL SYMBOLS**  
(USED IN PLANS)

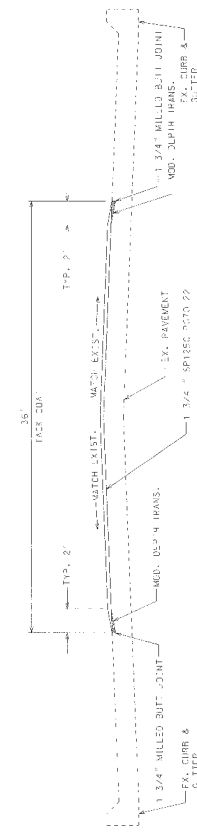
EXISTING	NEW
BUILDINGS AND STRUCTURES	GUARD RAIL
RAILROAD	RIGHT-OF-WAY MARKER
STEEL RIGHT-OF-WAY MARKER	LOCATION SURVEY MARKER
UTILITIES	UNDERGROUND TELEPHONE
UNDERGROUND TELEPHONE	OVERHEAD POWER
OVERHEAD POWER	GAS
GAS	WATER
WATER	MANHOLE
MANHOLE	FIRE HYDRANT
FIRE HYDRANT	WATER VALVE
WATER VALVE	WATER METER
WATER METER	DITCH INLET
DITCH INLET	GROUND MOUNTED SIGN
GROUND MOUNTED SIGN	LIGHT POLE
LIGHT POLE	H-FRAME POWER POLE
H-FRAME POWER POLE	TELEPHONE PEDESTAL
TELEPHONE PEDESTAL	FENCE
FENCE	CHAIN LINK
CHAIN LINK	WIRE LINK
WIRE LINK	GATE POST
GATE POST	BENCHMARK

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

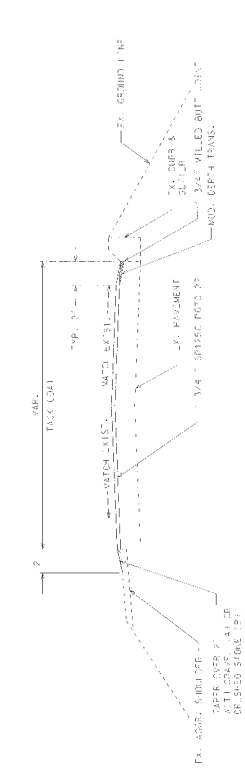
STATE OF MISSOURI	PROJECT NO.	4	2
ROADS	SECTION NO.	4	
DESIGN NUMBER	JOB NO.	J4P1869	
PROJECT NO.	CONTRACT ID.		
PROJECT NO.	PROJECT NO.		
COUNTY	JACKSON		



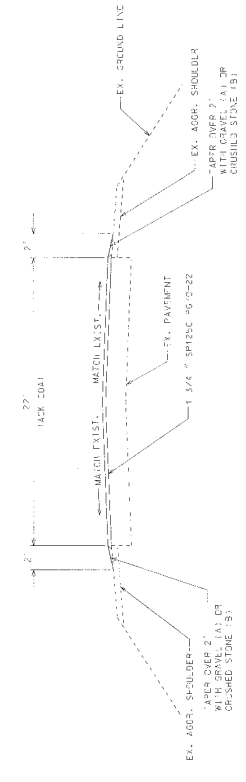
ROUTE F  
LOG MILES 0.735 TO 0.759



ROUTE F  
LOG MILES 0.759 TO 0.927



ROUTE F  
LOG MILES 1.178 TO 1.203



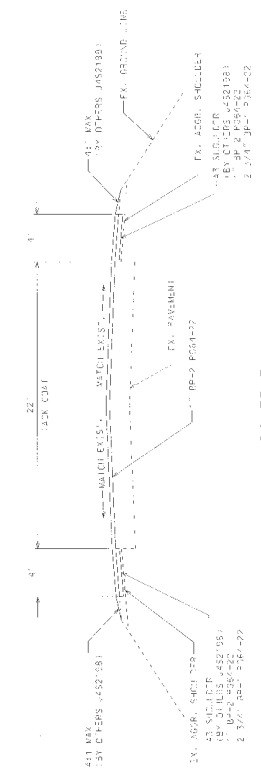
ROUTE F  
LOG MILES 1.315 TO 1.553

TYPICAL SECTION  
SHEET 1 OF 3

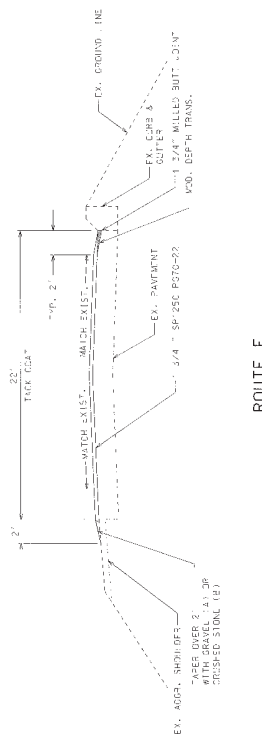
STATE OF MISSOURI	DATE	NO. SHEETS	SHEET NO.
REPUBLICAN	F	MO	4
PROJECT NO.	2		
JOB NO. J4P1869			
CONTRACT ID.			
PROJECT NO.			
COUNTY JACKSON			
DESIGNED BY			
CHECKED BY			
DATE			



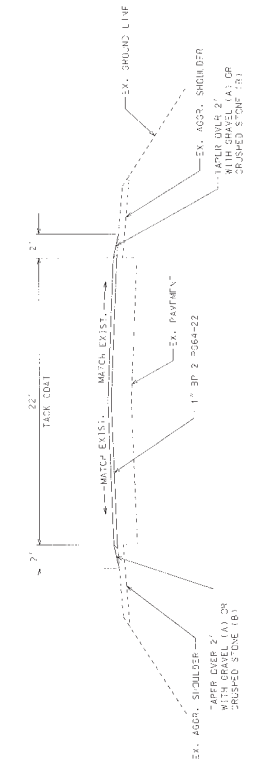
ROUTE F  
LOG MILES 1.203 TO 1.315



ROUTE F  
LOG MILES 5.099 TO 10.200



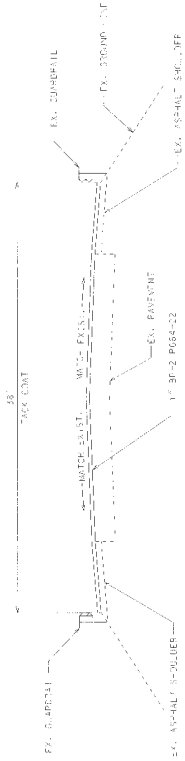
ROUTE F  
LOG MILES 1.553 TO 1.664



ROUTE F  
LOG MILES 1.700 TO 1.960

REV. 1

STATE OF MISSOURI DIVISION OF PUBLIC WORKS TRANSPORTATION ENGINEERING KANSAS CITY, MISSOURI	SHEET NO. 4	DISTRICT 2
JOB NO. J4P1869	PROJECT NO.	
CONTRACT ID.	COUNTY JACKSON	



ROUTE F  
LOG MILES 5.030 TO 5.054 (BR. A2548)  
LOG MILES 5.075 (BR. A2548) TO 5.099

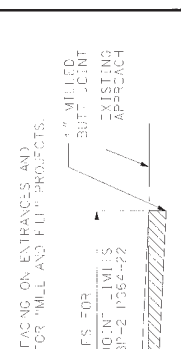
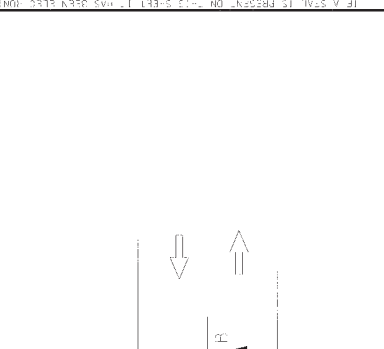








STATE OF MISSOURI	DATE	MO	4	YEAR	4
PROJECT NUMBER	JAS1869				
CONTRACT ID.					
PROJECT NO.					
COUNTY	JACKSON				

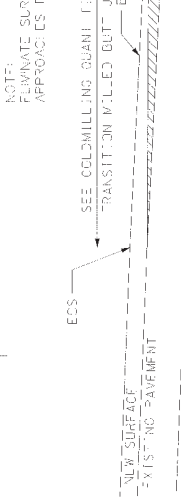
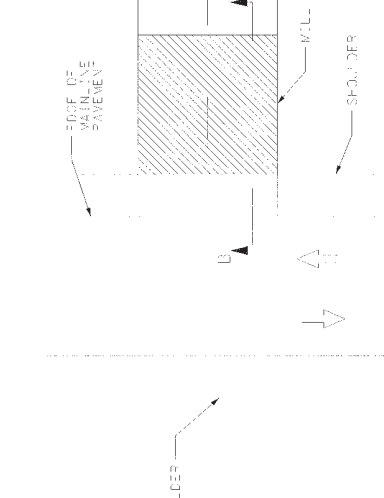


SECTION B-H

SURFACING REQUIREMENTS FOR OVERLAYS AT ENTRANCES & APPROACHES

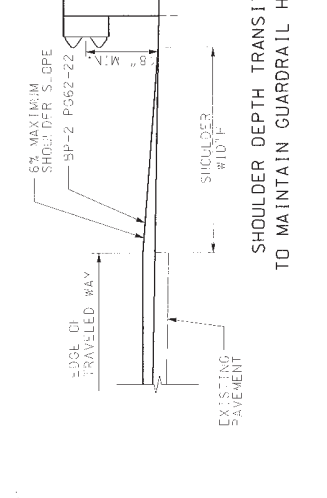


SPECIAL SHEET  
1 OF 3

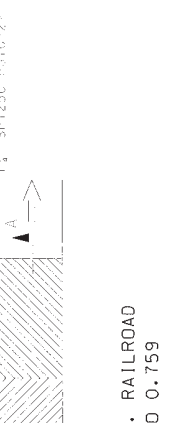
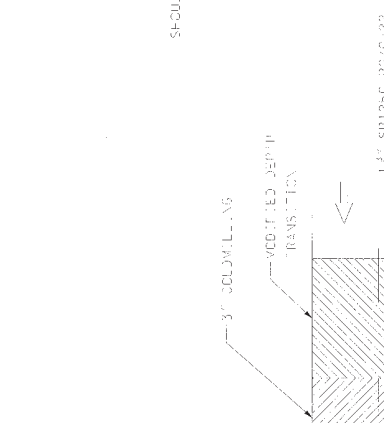


SECTION A-A

COLDMILLING AT K.C.S. RAILROAD LOG MILES 0.735 TO 0.759



PAVEMENT DEPTH TRANSITION



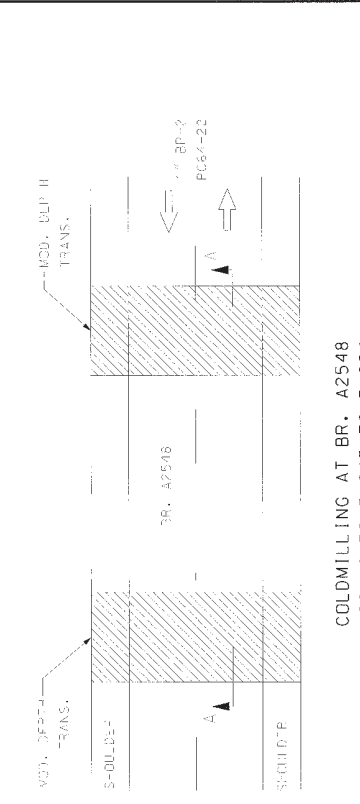
SECTION A-A

COLDMILLING AT K.C.S. RAILROAD LOG MILES 0.735 TO 0.759

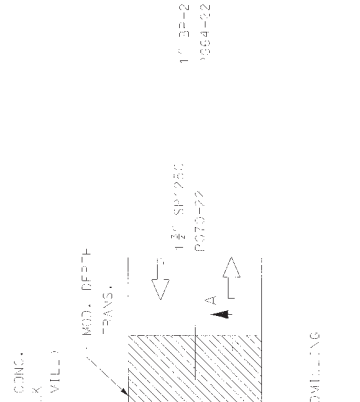


PAVEMENT DEPTH TRANSITION

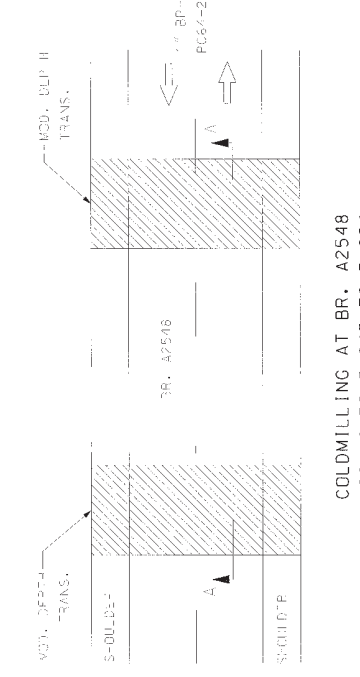
STATE OF MISSOURI	DATE	MO	DAY	YEAR
DESIGNED BY	F	MO	4	5
PROJECT NO.	JOB NO. J451869			
COUNTY JACKSON	CONTRACT ID.			
	PROJECT NO.			
	COUNTY JACKSON			



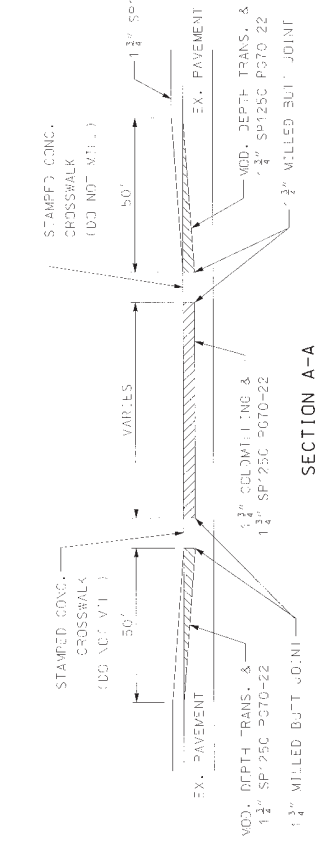
COLDMILLING AT 12TH ST.  
LOG MILES 0.808 TO 0.840



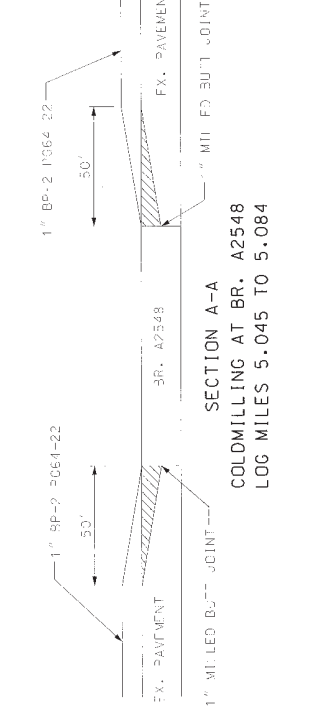
COLDMILLING AT BR. A2548  
LOG MILES 5.045 TO 5.084



COLDMILLING AT 12TH ST.  
LOG MILES 0.808 TO 0.840

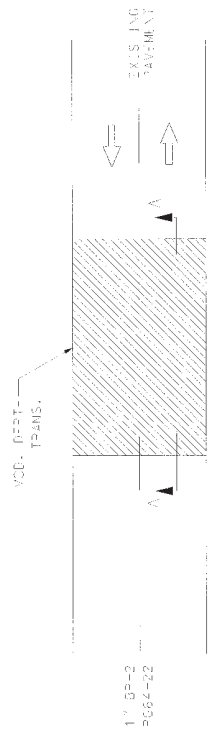


COLDMILLING AT 12TH ST.  
LOG MILES 0.808 TO 0.840

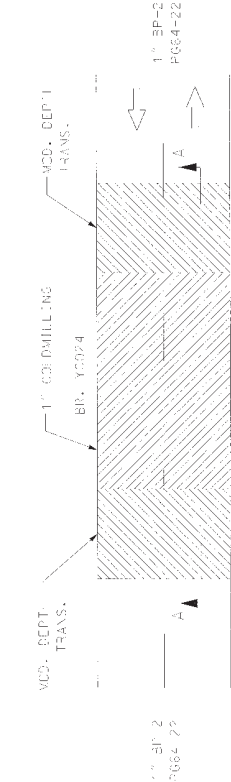


COLDMILLING AT BR. A2548  
LOG MILES 5.045 TO 5.084

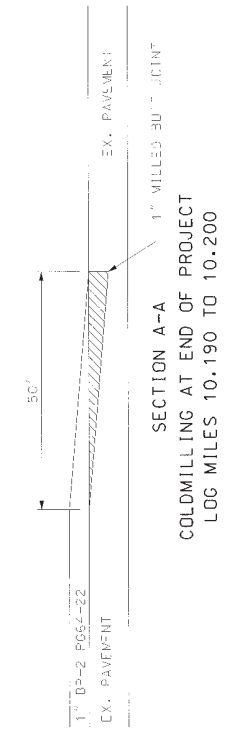
STATE OF MISSOURI	DATE	PROJECT	LOG MILE
REGISTERED	F	MO	4
PROFESSIONAL ENGINEER	JOB NO.	J451869	6
PROJECT NO.	CONTRACT ID.		
COUNTY	JACKSON		



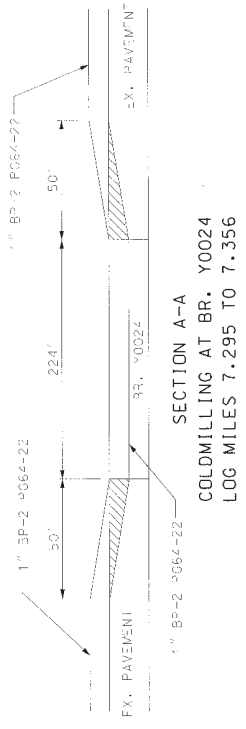
COLDMILLING AT END OF PROJECT  
LOG MILES 10.190 TO 10.200



COLDMILLING AT BR. Y0024  
LOG MILES 7.295 TO 7.356



SECTION A-A  
COLDMILLING AT END OF PROJECT  
LOG MILES 10.190 TO 10.200



SECTION A-A  
COLDMILLING AT BR. Y0024  
LOG MILES 7.295 TO 7.356

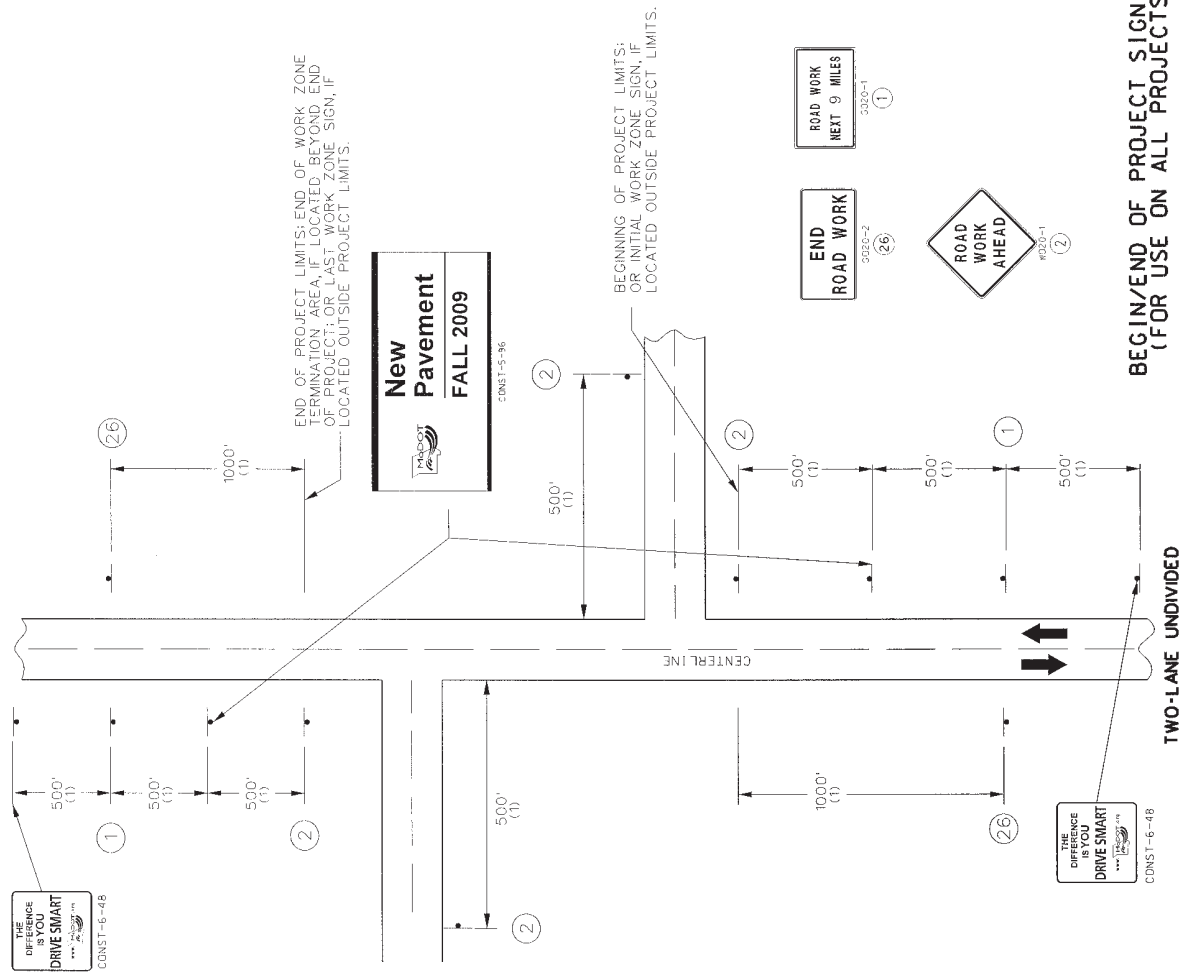
PAVEMENT DEPTH TRANSITION

STATE OF MISSOURI	PROJECT NO.	4	SHEET NO.	7
DEPARTMENT OF TRANSPORTATION	JOB NO.	J4S1869		
	CONTRACT ID.			
	PROJECT NO.			
	COUNTY	JACKSON		

**SIGN SPACING FOR ADVANCE SIGN SERIES**

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.  
 SIGN SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH (S)	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	1000 FT	1000 FT



NOTES:

SIGN (1) IS ONLY REQUIRED ON PROJECTS OF 2 MILES OR GREATER IN LENGTH.

SIGN (2) IS USED ON ALL PROJECTS WHERE SIGN (1) IS USED.

OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

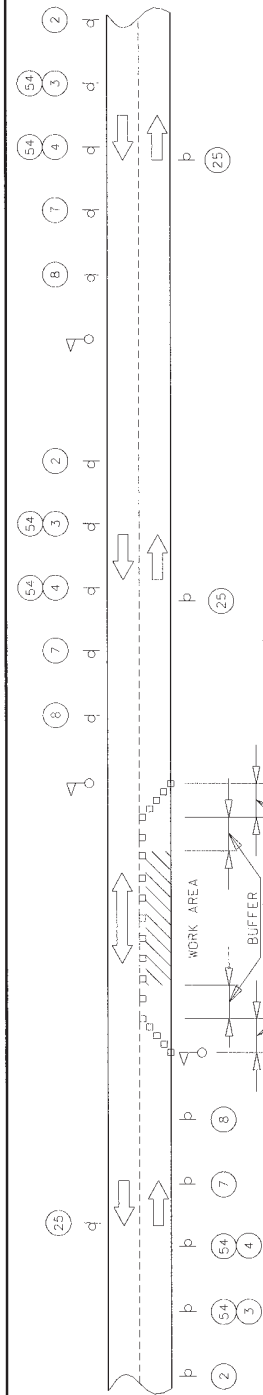
ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS, WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

ALL SIGNS ARE INSTALLED & PAID UNDER JOB J4S2198, BUT SHALL REMAIN IN PLACE UNTIL JOB J4S1869 & J4S2198 HAS COMPLETED ALL WORK.

**BEGIN/END OF PROJECT SIGNING  
(FOR USE ON ALL PROJECTS)**

STATE OF MASSACHUSETTS  
 REGISTERED PROFESSIONAL ENGINEER  
 LICENSE NO. 105123  
 PROJECT NO. JAS1869  
 COUNTY JACKSON



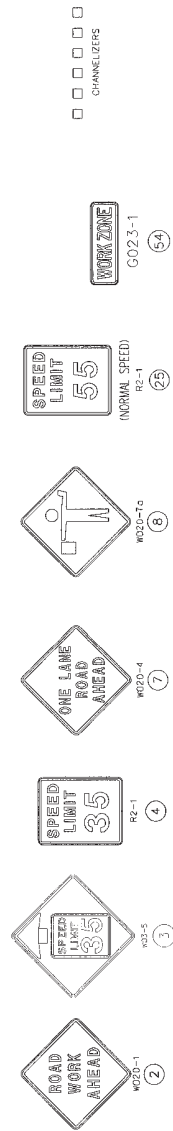
SPEED MPH (S)	TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES		MAXIMUM CHANNELIZER THROUGH TAPER WORK AREA
	TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)	TAPER SPACING	
0-35	10 FT 11 FT	12 FT	35 FT 50 FT
40-45	205 FT 450 FT	245 FT 495 FT	40 FT 100 FT
50-55	605 FT	660 FT	50 FT 100 FT
60-70	700 FT	770 FT 840 FT	60 FT 100 FT

SPEED (S) MPH	SIGN SPACING OR ADVANCE SIGN SERIES (2) (3)	
	ADVANCED HIGHWAYS	DIVIDED HIGHWAYS
0 - 35	200	200
40 - 45	350	300
50 - 55	500	1000
60 - 70	1000	1000

THIS SET OF SIGNS IS PLACED WITH SIGN LEGEND TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC UNTIL RESURFACING OPERATIONS APPROACH THE LOCATION OF SIGN SET 2. THEN THE SIGNS ARE POSITIONED TO FACE ONCOMING TRAFFIC.

AFTER SET 3 SIGNS ARE ERECTED, THE SET 2 SIGNS ARE MOVED TO THE OPPOSITE SIDE OF THE ROAD. WHEN THE RESURFACING OPERATION HAS CLEARED THE SET 2 LOCATION THE REQUIRED SIGN SPACING DISTANCES, THE SET 2 SIGNS BECOME SET 1 SIGNS.

WHEN RELOCATED SET 2 SIGNS ARE PLACED IN OPERATION, SET 1 SIGNS ARE MOVED AHEAD OF THE RESURFACING AND BECOME SET 3 SIGNS.



- NOTES:
- DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
- (1) POSTED SPEED LIMIT PRIOR TO ROAD WORK.
  - (2) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.
  - (3) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

NOTES:

USE BEGIN/END PROJECT SIGNING SHEET

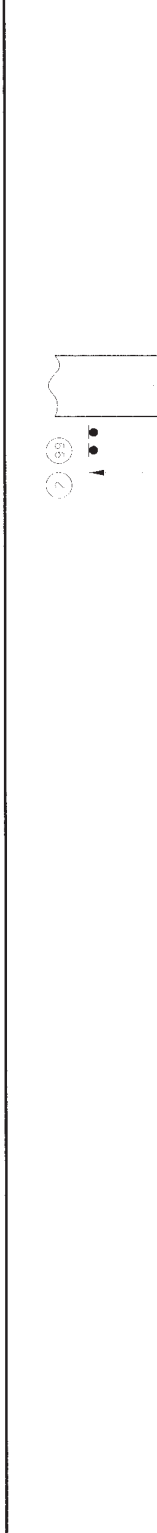
DAYLIGHT FLAGGING OPERATIONS ONLY.

CONES ALLOWABLE FOR DAYLIGHT OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10' OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.



STATE OF MISSOURI	SECTION	4	AMOUNT	9
DEPARTMENT OF TRANSPORTATION	MO			
PROJECT NUMBER	J451869			
CONTRACT ID.				
PROJECT NO.				
COUNTY	JACKSON			



NOTES:

IN ADDITION TO THE NORMAL TWO-WAY SINGLE LANE SURFACING OPERATION SIGN SERIES, VEHICLE MOUNTED G220-4 "PILOT CAR FOLLOW ME" SIGN AND G020-40 "PLEASE WAIT FOR PILOT CAR" SIGN SHALL BE USED IN PILOT CAR OPERATIONS.

THE "PLEASE WAIT FOR PILOT CAR" SIGN SHALL BE PLACED AT ALL ROADS WITHIN THE LENGTH OF THE ONE LANE, TWO-WAY OPERATION NOT CONTROLLED BY FLAGGERS.

NO DIRECT PAYMENT WILL BE MADE FOR PILOT VEHICLES.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

ALL G020-40 "PLEASE WAIT FOR PILOT CAR" SIGNS SHALL BE COMPLETED WHEN NOT IN USE.

PILOT CAR OPERATIONS SHALL NOT BE USED WITHIN CITY LIMITS OF CAK GROVE.

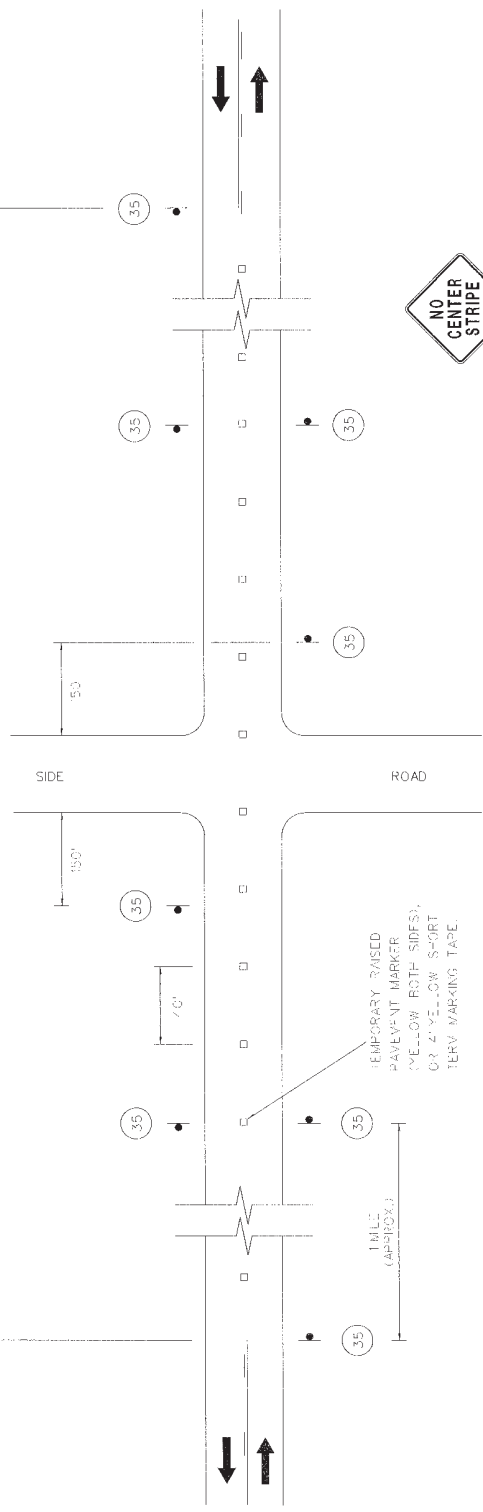
TRAFFIC CONTROL  
TYPICAL APPLICATIONS  
SHEET 3 OF 4

PILOT CAR OPERATION  
TWO-LANE UNDIVIDED HIGHWAY

11 A SEAL IS PROVIDED ON THIS SHEET. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEAL AND DATE.

STATE OF MISSOURI	PROJECT NO.	4	10
PROJECT NO.	MO	4	10
JOB NO. J451869			
CONTRACT ID.			
PROJECT NO.			
COUNTY JACKSON			

AREA OF TEMPORARY PAVEMENT MARKING



NOTES:

SIGN (35) AND TEMPORARY PAVEMENT MARKING INSTALLED WHERE CENTER STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTER PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PERMANENT CENTER PAVEMENT MARKING HAS BEEN INSTALLED.

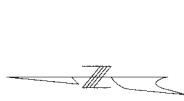
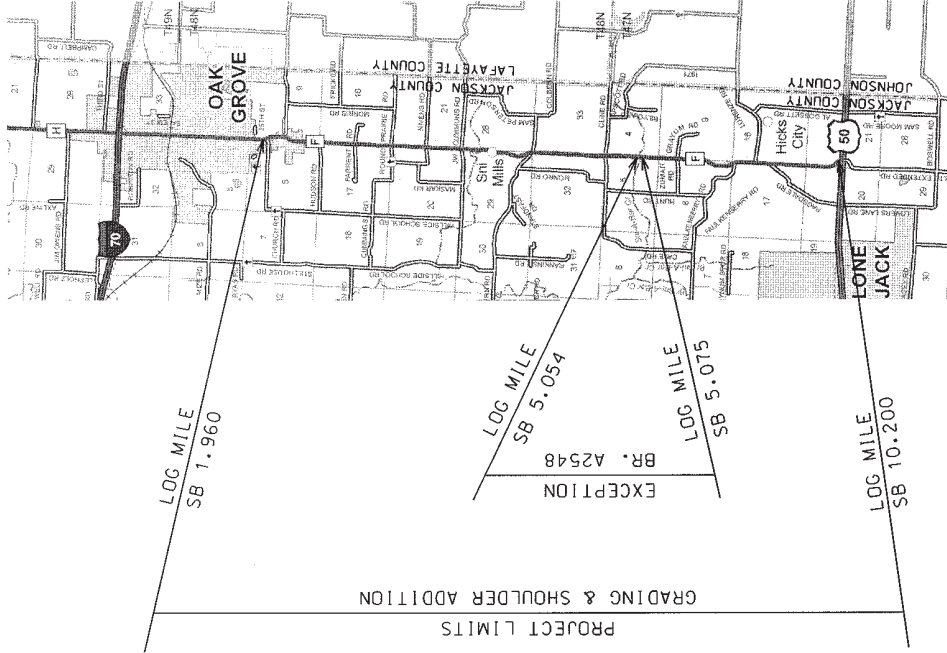
SIGN (35) IS PLACED AT APPROXIMATELY ONE MILE INTERVALS AND AT SIDE ROADS. WHEN SIGN (35) IS INSTALLED AT A SIDE ROAD, ANY OTHER SIGN (35) LOCATED WITHIN ONE EIGHTH OF A MILE FROM THE SIDE ROAD MAY BE DELETED.

SIGN (35) SHALL BE POST MOUNTED IN ACCORDANCE WITH STANDARD PLANS 616.10 AND 923.03.

TEMPORARY PAVEMENT MARKING SHALL BE INSTALLED BY THE END OF EACH DAY AT NO DIRECT PAY.

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION PLANS FOR PROPOSED STATE HIGHWAY

JACKSON COUNTY



NOT TO SCALE

## DESIGN DESIGNATION

A.A.D.T. - 2009 = 6993  
T = 7.7%  
V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

NO RIGHT-OF-WAY TO BE REQUIRED

## CONVENTIONAL SYMBOLS

USED IN PLANS

EXISTING	NEW

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

STATE	SHEET	PROJECT	DATE
F	MO	4	1
JOB NO. JAS2198			
CONTRACT ID.			
PROJECT NO.			
COUNTY JACKSON			

### INDEX OF SHEETS

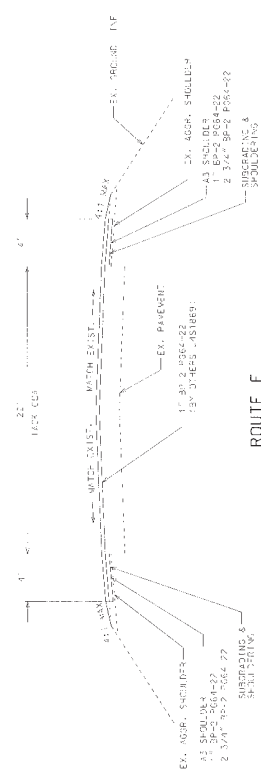
DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEET)	2
QUANTITIES (QU) (2 SHEET)	3
PLAN-PROFILE (PP)	N/A
RIGHT OF WAY (RW)	N/A
REFERENCE POINTS (RP)	N/A
COORDINATE POINTS (CP)	N/A
SPECIAL SHEETS (SS)	4-6
TRAFFIC CONTROL SHEETS (TC)	7-9
EROSION CONTROL SHEETS (EC)	N/A
LIGHTING (LT)	N/A
SIGNALS (SO)	N/A
SIGNING (SN)	N/A
PAVEMENT MARKING (PM)	N/A
CULVERT SECTIONS (CS)	N/A
CROSS SECTIONS (XS)	N/A

### LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 1.960
END OF PROJECT	LOG MILE 10.200
APPARENT LENGTH	8.240 MILES
EQUATIONS AND EXCEPTIONS:	
BR. A2548	LOG MILES 5.054 - 5.075
TOTAL CORRECTIONS	0.021 MILES
NET LENGTH OF PROJECT	8.219 MILES
STATE LENGTH	8.219 MILES

STATE	DISTRICT	SECTION	SHEET NO.
F	MC	4	2
JOB NO. J4P2198			
CONTRACT NO.			
PROJECT NO.			
COUNTY JACKSON			

STATE OF MISSISSIPPI  
 PROFESSIONAL ENGINEER  
 NUMBER 14320  
 NAME RICHARD W. STINE  
 COMPANY RWS&C, INC.



ROUTE F  
 LOG MILES 1.960 TO 5.030  
 LOG MILES 5.099 TO 10.200

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND IS VALID.

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

## SUMMARY OF QUANTITIES

JOB NO.	F	MO	4	SHEET NO.	3
JOB NO. J452198					
CONTRACT ID.					
PROJECT NO.					
COUNTY JACKSON					

STATE OF MISSOURI  
 DEPARTMENT OF TRANSPORTATION  
 PROJECT NUMBER  
 PROJECT NO. J452198  
 COUNTY JACKSON

EARTHWORK		
LOG MILE	LOCATION	SUBGRADING & SHOULDERING CLASS 1 (1100 L.F.)
1.293	131200	45
1.293	131200	45
TOTALS		
		90

PAVEMENT EDGE TREATMENT		
LOG MILE	LOCATION	PAVEMENT EDGE TREATMENT (L.F.)
1.293	131200	1500.00
TOTALS		
		1500.00

EROSION CONTROL		
LOG MILE	LOCATION	SILT FENCE REMOVAL (FEET)
1.293	131200	200
1.293	131200	200
TOTALS		
		400

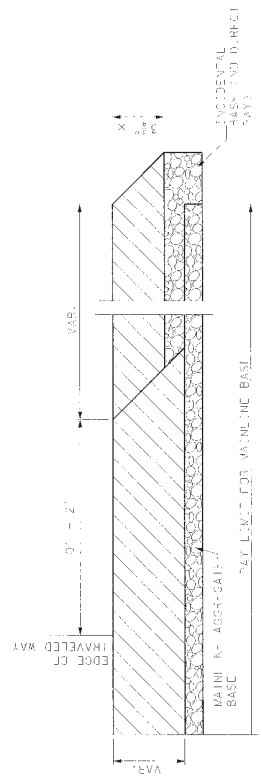
MISC. QUANTITIES		
ITEM	QUANTITY	UNIT
CONCRETE - 1500	1	L.S.
PAVEMENT - 1500	1	L.S.
PAVEMENT - 1500	1	L.S.
TOTALS		
		3

SHOULDERS		
LOG MILE	LOCATION	BIT. SHOULDER RUMBLE STRIP (STA.)
1.293	131200	306.22
1.293	131200	306.22
TOTALS		
		612.44

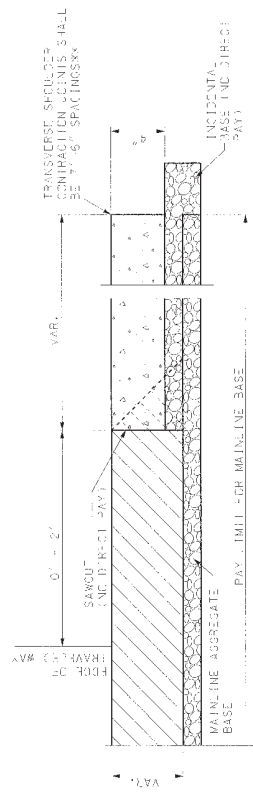
IF A STA IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY CHECKED AND IS CORRECT.



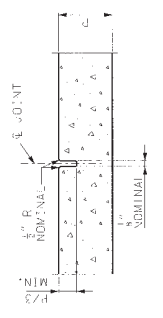
FILE NO.	F	DATE	MO	4	ISSUE NO.	4	SCALE	AS SHOWN
JOB NO.	J4S2198						STATE OF MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
CONTRACT ID.							REGISTERED PROFESSIONAL ENGINEER NO. 14888 JAMES W. JACKSON 10715 SHILOH ROAD, SUITE 200 MEMPHIS, TENNESSEE 38117	
PROJECT NO.								
COUNTY	JACKSON							



**HMA PAVEMENT**



**HMA PAVEMENT**



**TOOL JOINT**

- RCC (ROLLER COMPACTED CONCRETE) OR
- PCC (PORTLAND CEMENT CONCRETE)
- HMA (HOT MIX ASPHALT)
- BASE

\* USE 1" LIFT & 2 1/2" LIFT OF BP 2 UNLESS OTHERWISE SPECIFIED ON THE PLANS.

\*\* JOINT DEPTH SHALL BE P/3 AND MAY BE SAVED OR TOOLED.

**GENERAL NOTE:**

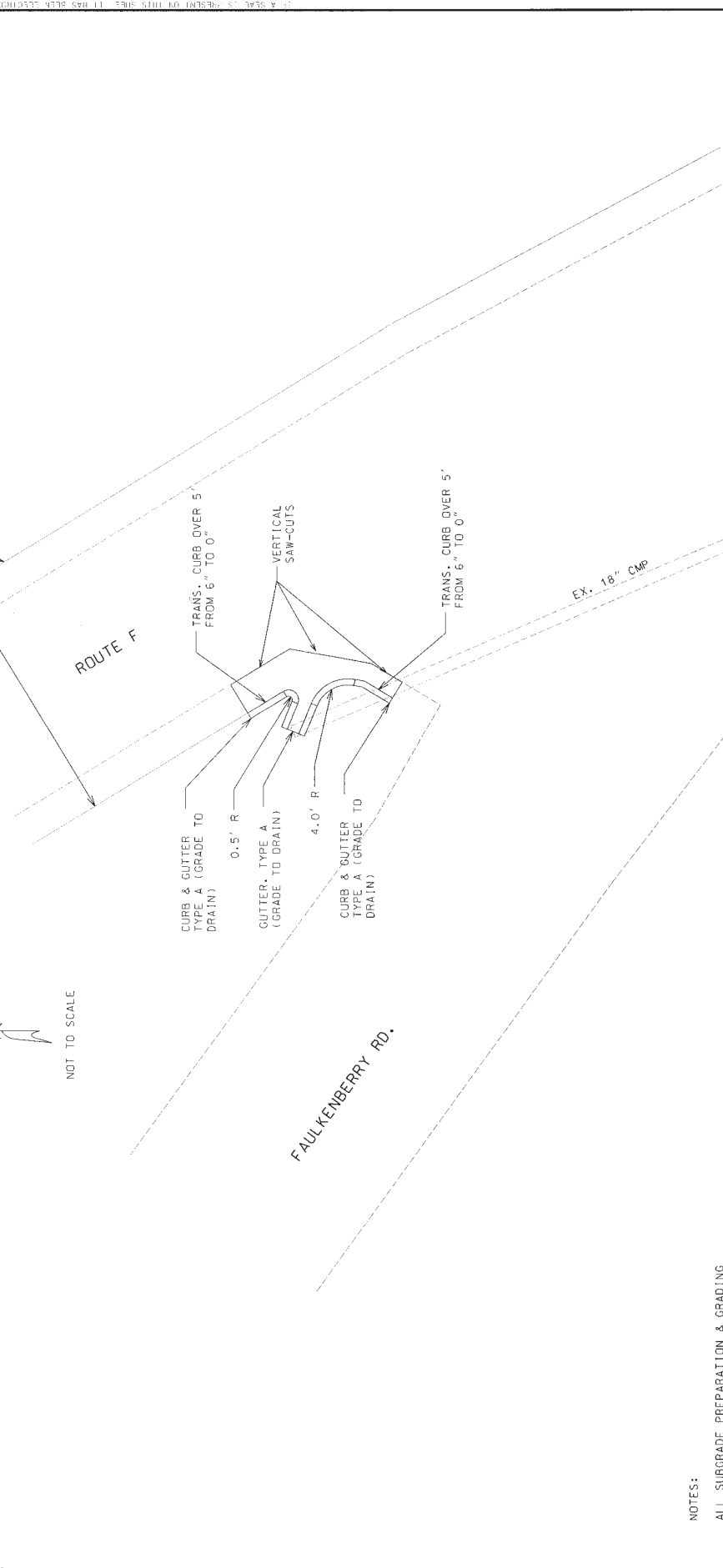
IF FINAL FINISH ON CONCRETE SHOULDERS MAY BE OBTAINED BY THE USE OF A DRAG COURSE, AS A SUBSTITUTE FOR OTHER SUITABLE MATERIAL, CAPABLE OF PROVIDING A UNIFORM SURFACE OF GRITTY TEXTURE.

THE QUANTITY FOR ADDITIONAL BASE MATERIAL RESULTING FROM THE VARIABLE THICKNESS MATERIAL OR CONSTRUCTION FOR TYPE A3 SHOULDER WILL BE CONSIDERED INCORPORATED.

INCIDENTAL BASE SHALL CONSIST OF TYPE 1 OR 5 AGGREGATE FOR BASE, OR AN ALTERNATE MATERIAL IN ACCORDANCE WITH THE APPROVAL OF THE ENGINEER.

STATE OF MISSOURI	PLANS	SHEET	NO.
MO	4	5	
JOB NO. J452198			
CONTRACT ID.			
PROJECT NO.			
COUNTY JACKSON			

STATE OF MISSOURI  
 DEPARTMENT OF TRANSPORTATION  
 MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION



NOT TO SCALE

CONCRETE FLUME  
 SPECIAL SHEET  
 2 OF 3

NOTES:

ALL SUBGRADE PREPARATION & GRADING FOR CONCRETE FLUME SHALL BE INCLUDED IN BID ITEM SUBGRADING & SHOULDERING CLASS 1

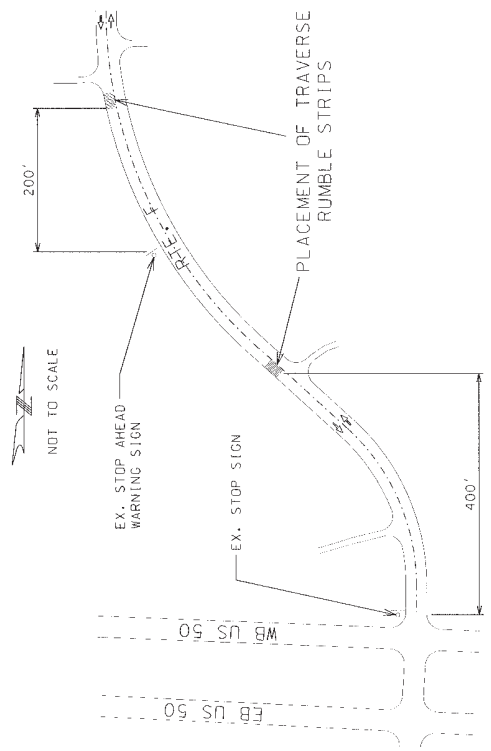
ALL OTHER WORK NECESSARY TO COMPLETE WORK SHALL BE COVERED IN BID ITEM CONCRETE FLUME.

IT IS A YEAR'S PRACTICE OF THIS SHEET IT HAS BEEN DESCRIBED AS SUCH

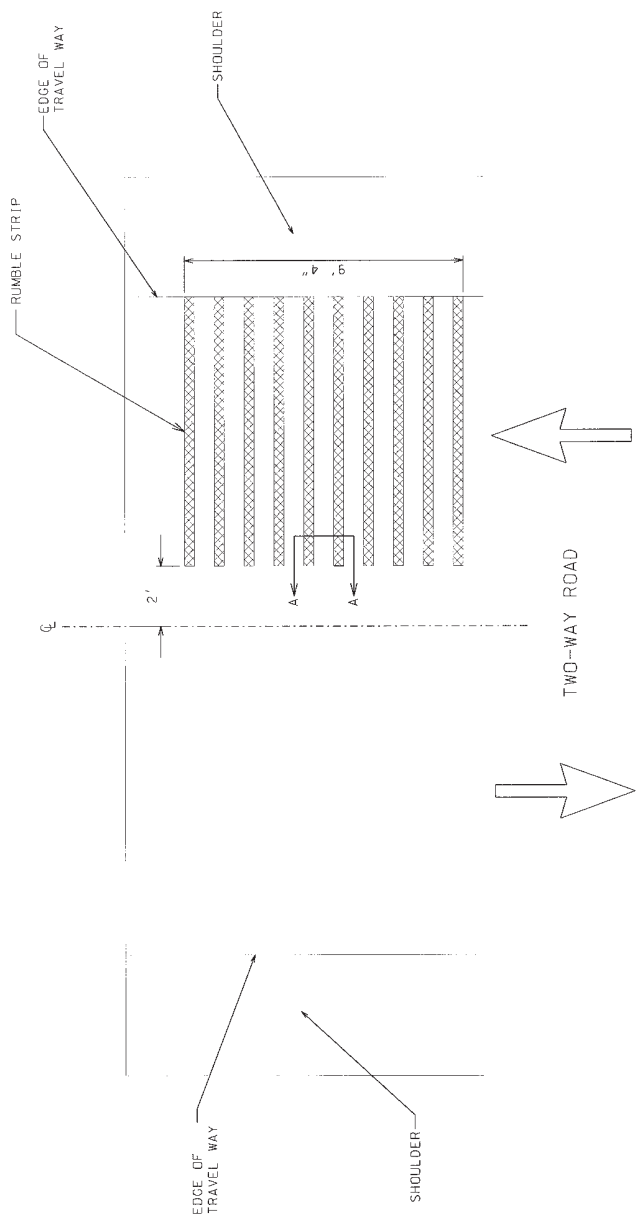
REV.



STATE OF MISSISSIPPI	SECTION OF 15-22-06	6
PROJECT NO. J452198	CONTRACT ID.	
PROJECT NO.	COUNTY JACKSON	



GENERAL NOTES:  
 SEE STD. PLAN 620.00 FOR PAVEMENT MARKING.  
 ALL RUMBLE STRIPS SHALL BE MILLED.  
 RUMBLE STRIPS MAY BE MILLED ONTO SHOULDER JOINTS IF NECESSARY.  
 RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGES.



TRAVERSE RUMBLE STRIP  
 SPECIAL SHEET  
 3 OF 3

IT IS HEREBY CERTIFIED THAT THIS SHEET HAS BEEN TECHNICALLY REVIEWED AND APPROVED BY THE ENGINEER.

STATE OF MISSISSIPPI	DESIGN	DATE	7
PROJECT NO.	J4S2198	CONTRACT ID.	
PROJECT NO.		CONTRACT ID.	
COUNTY	JACKSON	CONTRACT ID.	

**SIGN SPACING FOR ADVANCE SIGN SERIES**

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION. SIGN SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH (S)	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	1000 FT	1000 FT

**NOTES:**

SIGN (1) IS ONLY REQUIRED ON PROJECTS OF 2 MILES OR GREATER IN LENGTH.

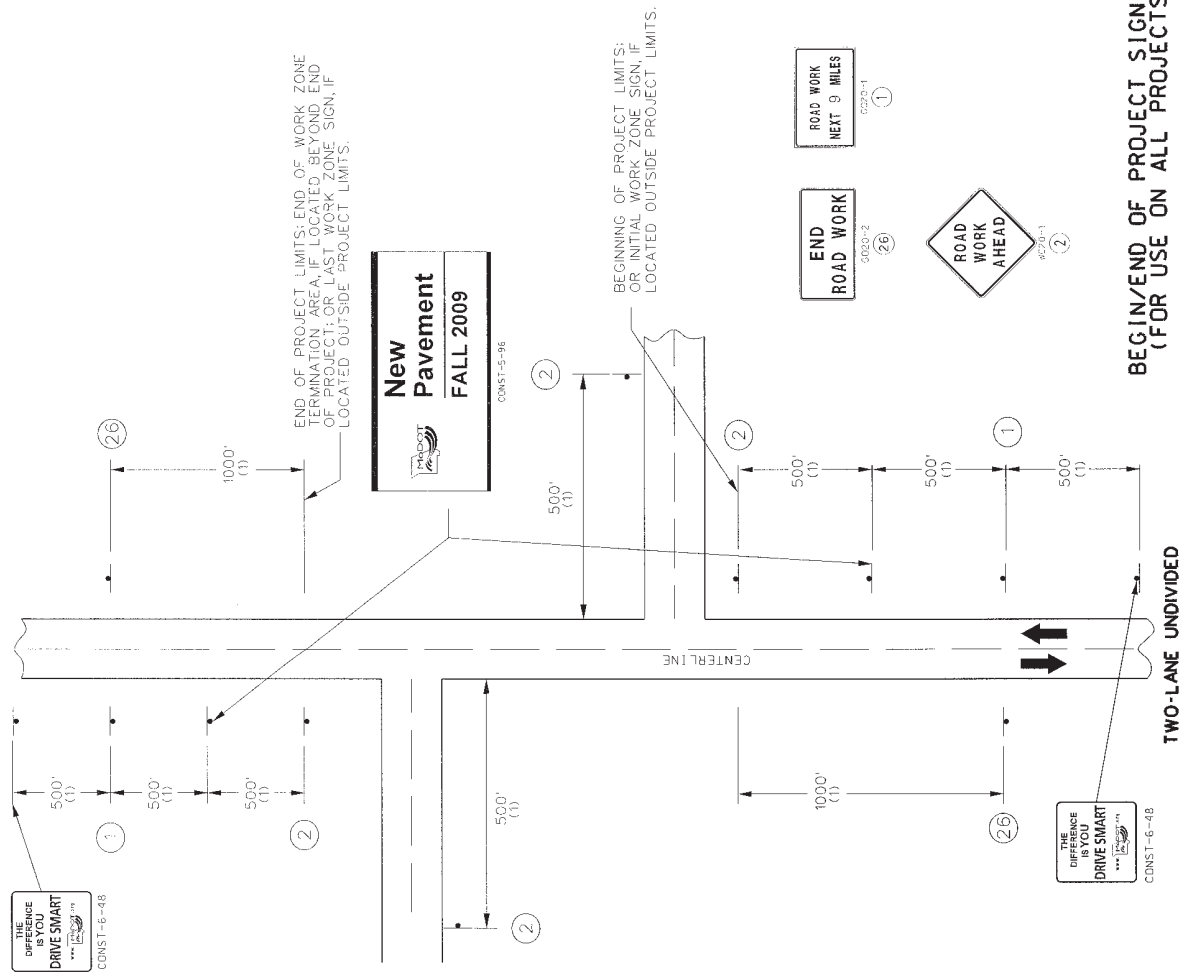
SIGN (2) IS USED ON ALL PROJECTS WHERE SIGN (1) IS USED.

OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS, WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

ALL SIGNS SHALL REMAIN IN PLACE UNTIL JOB J4S1869 & J4S2198 HAS COMPLETED ALL WORK.

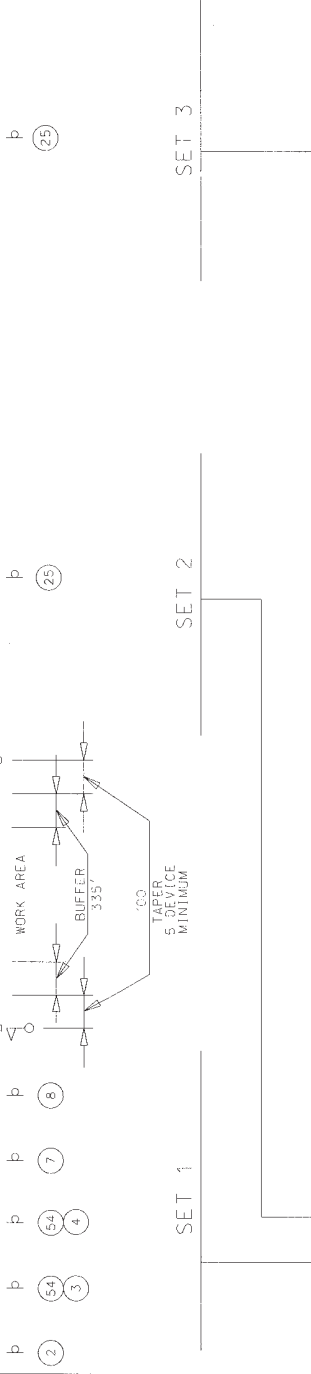
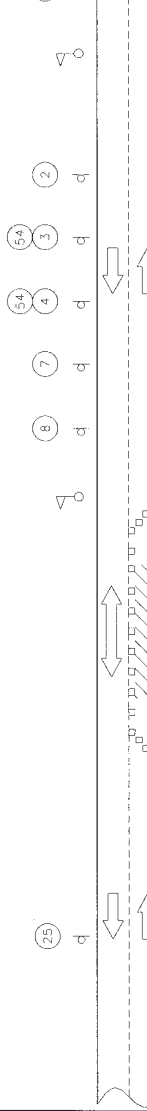


**BEGIN/END OF PROJECT SIGNING  
(FOR USE ON ALL PROJECTS)**

**TRAFFIC CONTROL  
TYPICAL APPLICATIONS  
SHEET 1 OF 3**

DATE	NO. OF SETS	NO. OF SHEETS	NO. OF SHEETS
F	MO	4	8
JOB NO. J452198			
CONTRACT ID.			
PROJECT NO.			
COUNTY JACKSON			

STATE OF MISSISSIPPI  
 HIGHWAY DEPARTMENT  
 PROJECT NUMBER  
 PROJECT NO. J452198  
 COUNTY JACKSON



THIS SET OF SIGNS IS PLACED WITH SIGN LEGEND TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC UNTIL RESURFACING OPERATIONS APPROACH THE LOCATION OF SIGN SET 2. THEN THE SIGNS ARE POSITIONED TO FACE ONCOMING TRAFFIC.

AFTER SET 3 SIGNS ARE ERECTED, THE SET 2 SIGNS ARE MOVED TO THE OPPOSITE SIDE OF THE ROAD. WHEN THE RESURFACING OPERATION HAS CLEARED THE SET 2 LOCATION THE REQUIRED SIGN SPACING DISTANCES, THE SET 2 SIGNS BECOME SET 1 SIGNS.

WHEN RELOCATED SET 2 SIGNS ARE PLACED IN OPERATION, SET 1 SIGNS ARE MOVED AHEAD OF THE RESURFACING AND BECOME SET 3 SIGNS.

SPEED MPH (S)	TAPER LENGTHS (L) FOR LATERAL SHEETS (W)	MAXIMUM CHANNELIZER THROUGH TAPER WORK AREA
0-35	10 FT 11 FT 12 FT	35 FT 40 FT 50 FT
40-45	225 FT 245 FT	50 FT 100 FT
50-55	450 FT 495 FT	50 FT 100 FT
60-70	660 FT 770 FT	60 FT 100 FT

SPEED (S) MPH	UNDIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0 - 35	200	200
40 - 45	350	500
50 - 55	500	1000
60 - 70	1000	1000

- NOTES:
- DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
  - POSTED SPEED LIMIT PRIOR TO ROAD WORK.
  - SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.
  - SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

NOTES:

USE BEGIN/END PROJECT SIGNING SHEET.

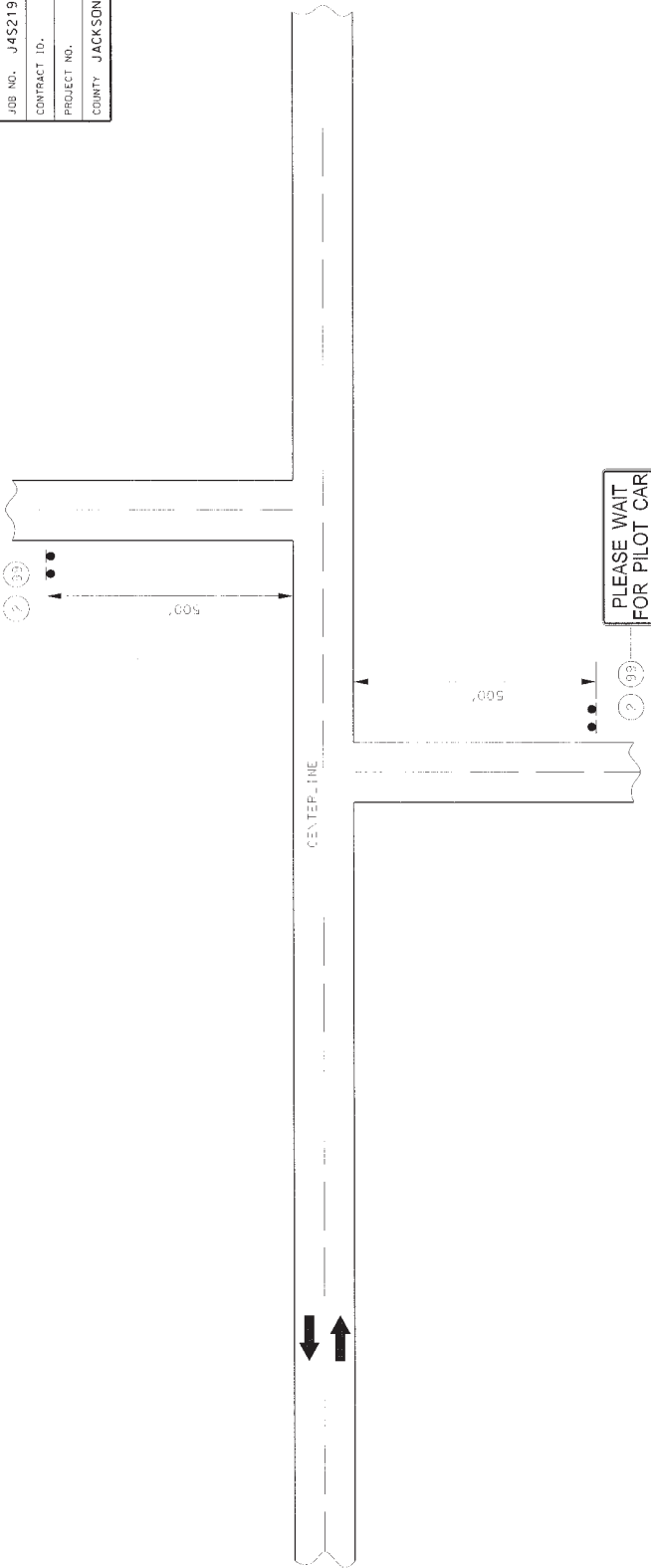
DAYLIGHT FLAGGING OPERATIONS ONLY.

CONES ALLOWABLE FOR DAYLIGHT OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10' OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

**TWO-WAY SINGLE LANE RESURFACING OPERATION**  
**TWO-LANE UNDIVIDED HIGHWAY**

STATE OF MISSOURI	SECTION	9
DEPARTMENT OF TRANSPORTATION	NO.	4
PROJECT NO.	J452198	
CONTRACT ID.		
PROJECT NO.		
COUNTY	JACKSON	



PLEASE WAIT FOR PILOT CAR



2

NOTES:

IN ADDITION TO THE NORMAL TWO-WAY SINGLE LANE RESURFACING OPERATION SIGN SERIES, VEHICLE MOUNTED 6020-4 "PILOT CAR FOLLOW ME" SIGN AND 6020-4C "PLEASE WAIT FOR PILOT CAR" SIGN SHALL BE USED IN PILOT CAR OPERATIONS.

THE "PLEASE WAIT FOR PILOT CAR" SIGN SHALL BE PLACED AT ALL ROADS WITHIN THE LENGTH OF THE ONE LANE, TWO-WAY OPERATION NOT CONTROLLED BY FLAGGERS.

NO DIRECT PAYMENT WILL BE MADE FOR PILOT VEHICLES.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

ALL 6020-4C "PLEASE WAIT FOR PILOT CAR" SIGNS SHALL BE COMPLETED WHEN NOT IN USE.

PILOT CAR OPERATIONS SHALL NOT BE USED WITHIN CITY LIMITS OF DEX GROVE.

**PILOT CAR OPERATION  
TWO-LANE UNDIVIDED HIGHWAY**

**INDEX OF SHEETS**

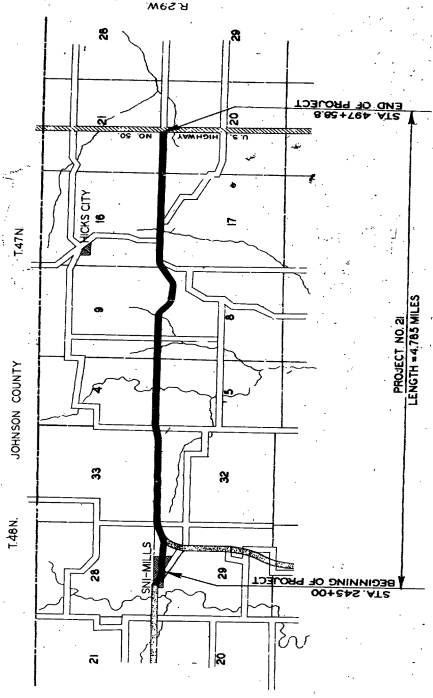
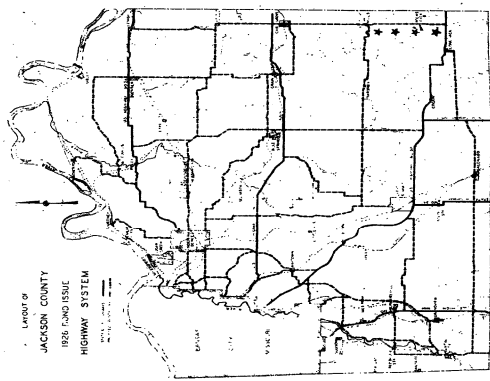
- SHEET NO. 1 TITLE PAGE
- 2 TYPICAL CROSS SECTION OF IMPROVEMENT
- 3 TYPICAL CROSS SECTION OF IMPROVEMENT
- 4 PLAN AND PROFILE SHEET
- 5 TO 13 PLAN AND PROFILE STA 245+00 TO STA 497+50.8
- 14 TO 18 CROSS SECTIONS "A" 245+00 "B" 497+50.8
- SPECIAL SHEETS AND STANDARDS

**JACKSON COUNTY  
HIGHWAY ENGINEERING DEPARTMENT**

**PLAN AND PROFILE OF THE OAK GROVE ROAD**

FROM SNI-MILLS TO U.S. HIGHWAY NO.50

PLAN 1 IN. = 100 FT.  
PROFILE HOR. LINE = 100 FT.—VERT. 1 IN. = 10 FT.  
SCALES CROSS SECTIONS 1 IN. = 5 FT.



**CONVENTIONAL SIGNS**

- STATE AND NATIONAL LINE
- COUNTY LINE
- CITY, VILLAGE OR BOROUGH
- TOWNSHIP LINE
- SECTION LINE
- FENCE LINE
- GUARD RAIL
- UNFENCED PROPERTY
- RIGHT OF WAY LINE
- TRAVELED WAY
- RAILROADS
- REPAIRING WALL
- BASE OF SURVEY LINE
- LEVEE
- CULVERTS
- DROP INLET
- TROLLEY POLE
- POWER POLE
- TELEPHONE OR TELEGRAPH POLE
- MARSH
- HEDGE
- GROUND ELEVATION
- GRADE ELEVATION
- SURFACE LINE
- GRADE LINE

**LENGTH OF PROJECT**

	FT.	MILES
APPARENT LENGTH	25266.8	4.784
GROSS LENGTH	25262.8	4.785
NET LENGTH	25262.8	4.785

**EXCEPTIONS**

NONE

**EQUATIONS**

STA. 389+364+ STA. 389+324+140'

LIST OF BRIDGE AND CULVERT STANDARDS USED IN PROJECT

- C230
- C232
- C233
- C338

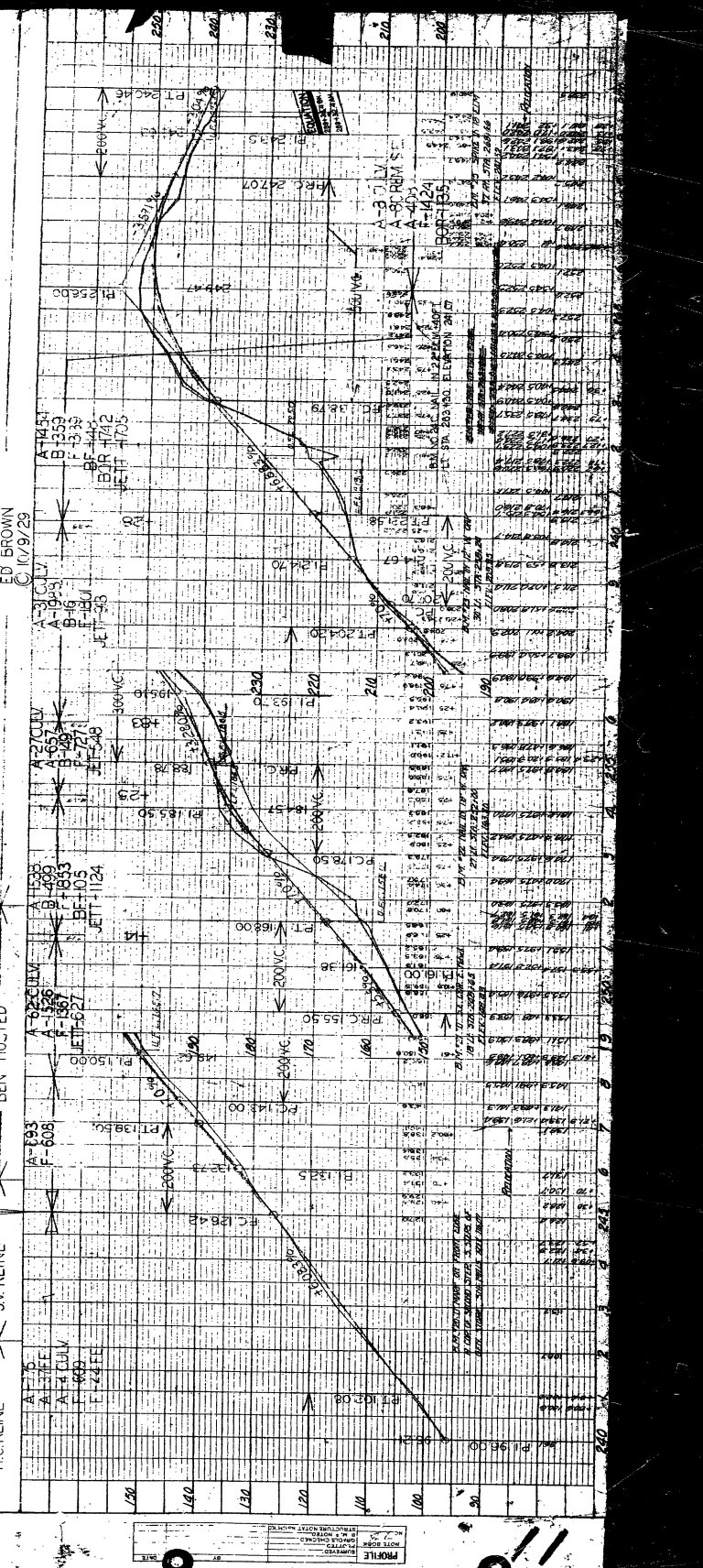
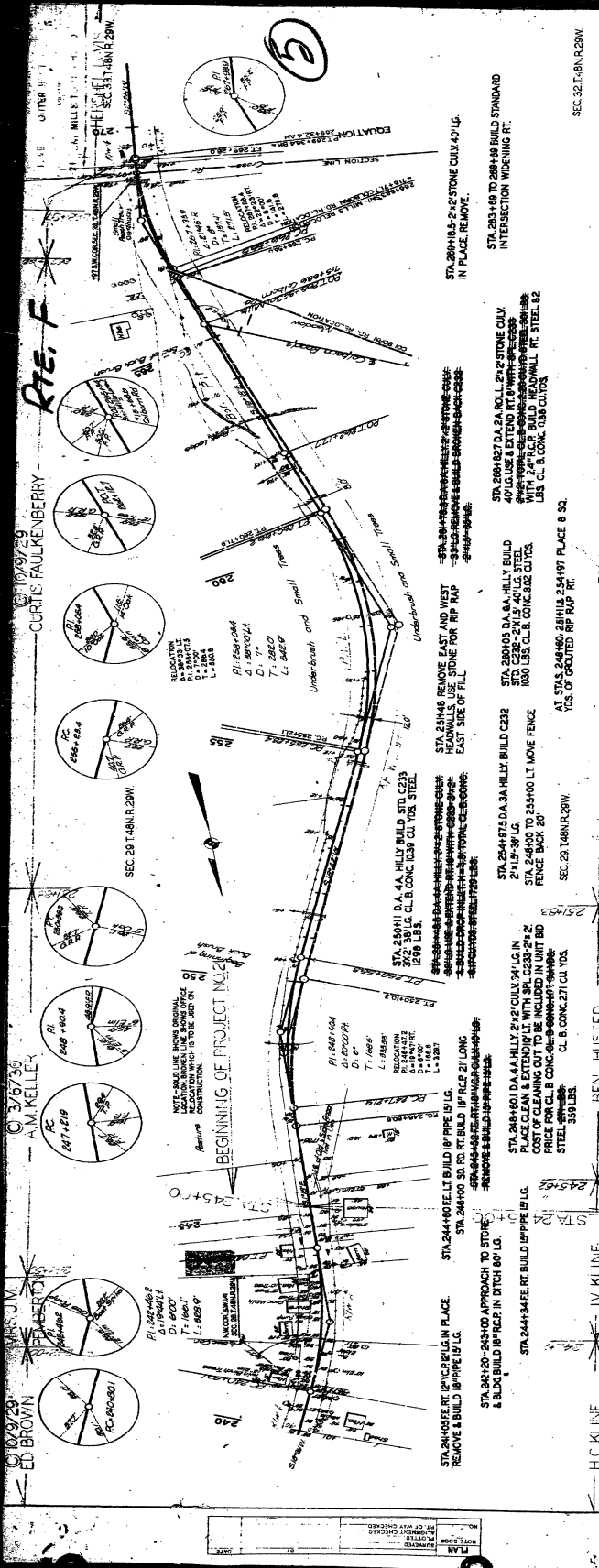
**Prod. #21  
RTE F**

JACKSON COUNTY  
HIGHWAY ENGINEERING DEPARTMENT

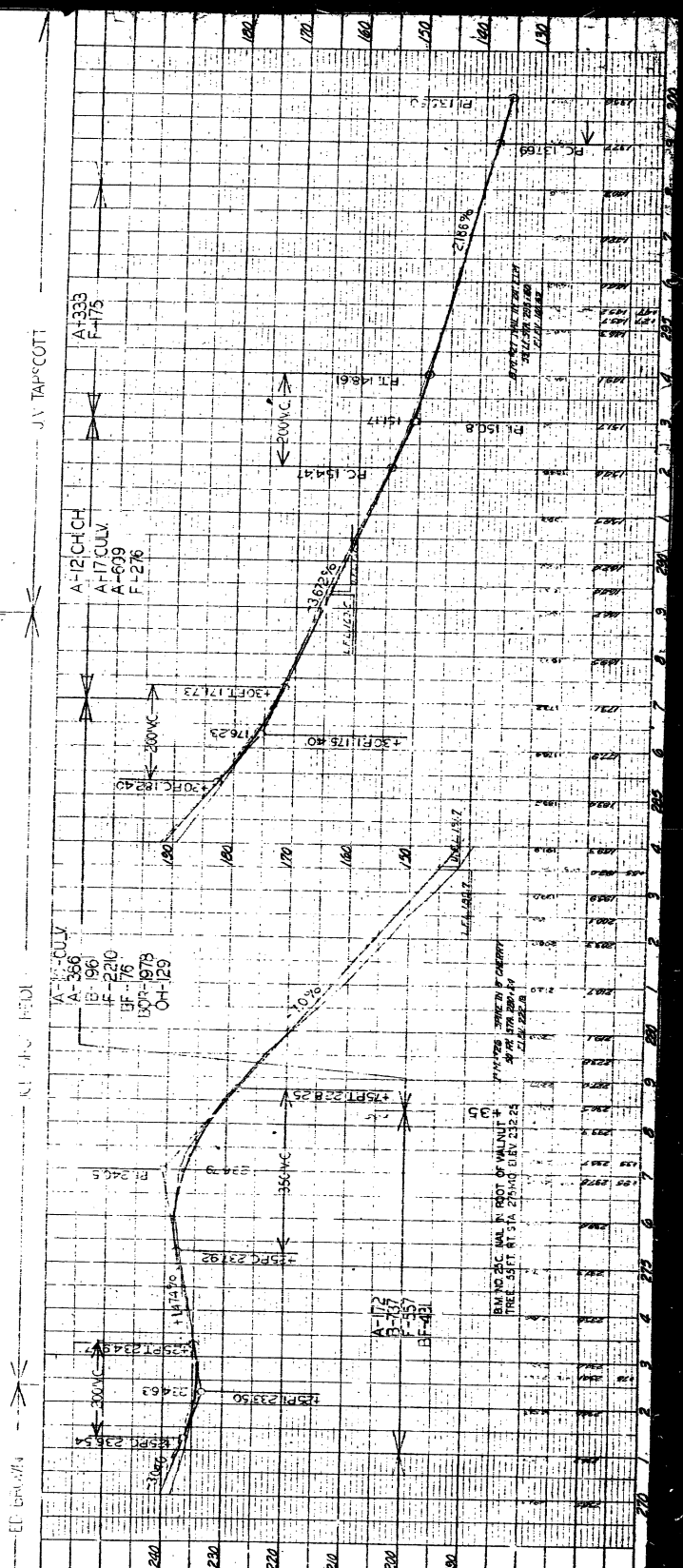
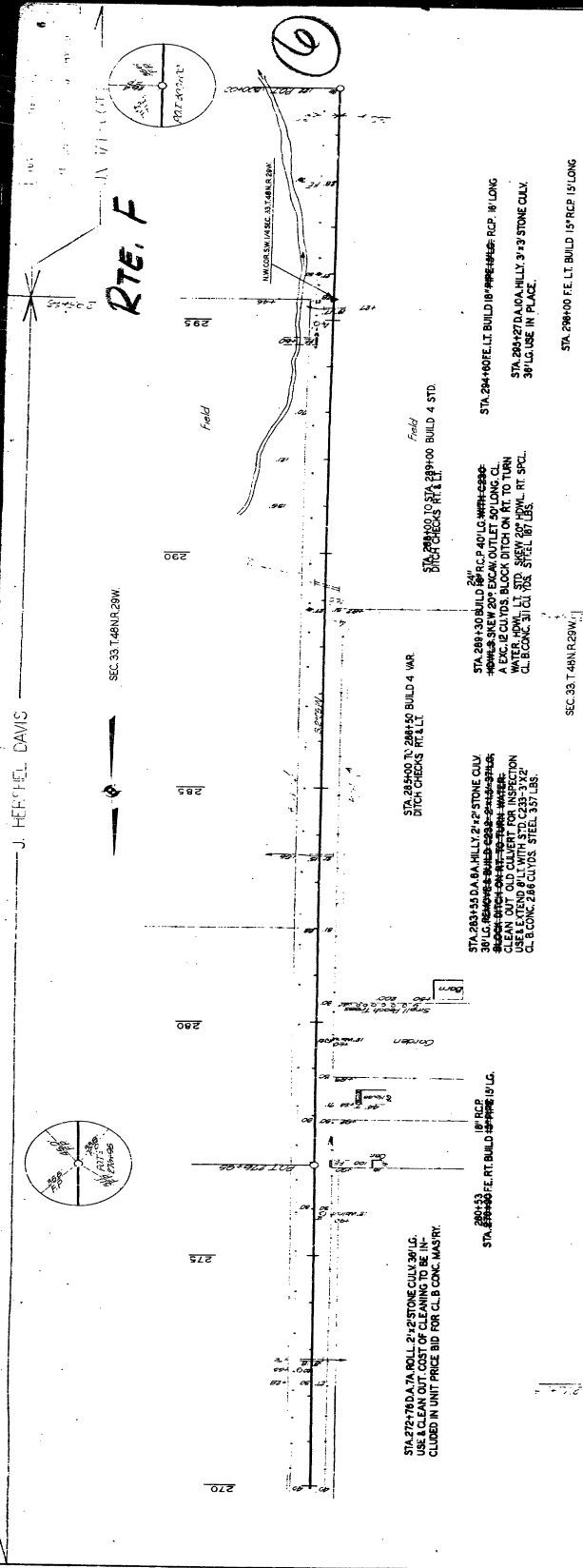
E. M. STAYTON & N. T. VEATCH JR.  
CONSULTING ENGINEERS  
508 INTERSTATE BLDG.  
KANSAS CITY, MO.

APPROVED BY  
COUNTY SURVEYOR AND EX-OFFICIO  
COUNTY HIGHWAY ENGINEER





**ED BROWN** © 10/9/29  
**AM KELLEK**  
**ED BROWN** © 3/7/30  
**AM KELLEK**  
**ED BROWN** © 10/9/29  
**AM KELLEK**  
**ED BROWN** © 10/9/29  
**AM KELLEK**  
**ED BROWN** © 10/9/29  
**AM KELLEK**  
**ED BROWN** © 10/9/29  
**AM KELLEK**



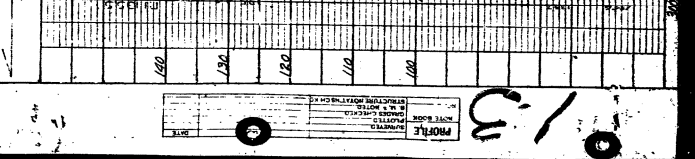
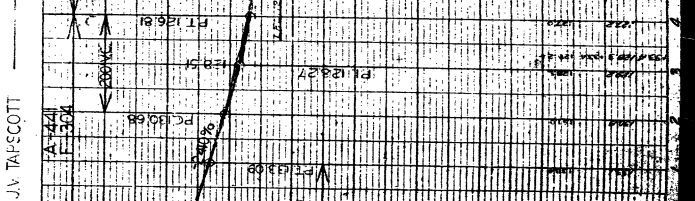
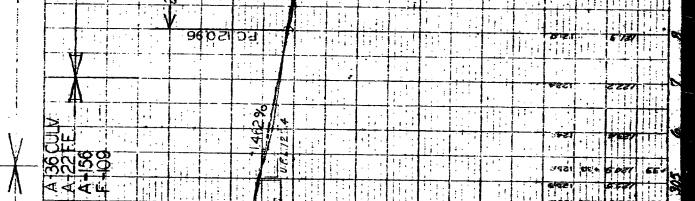
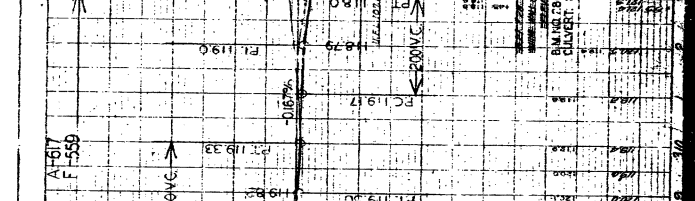
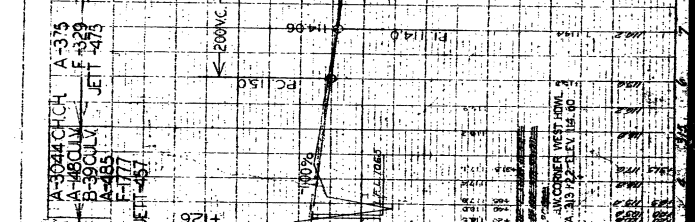
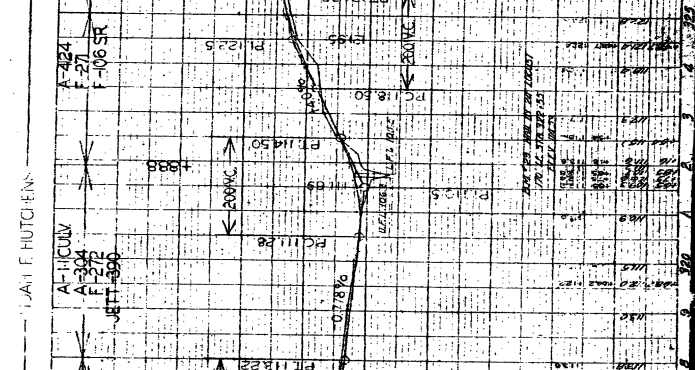
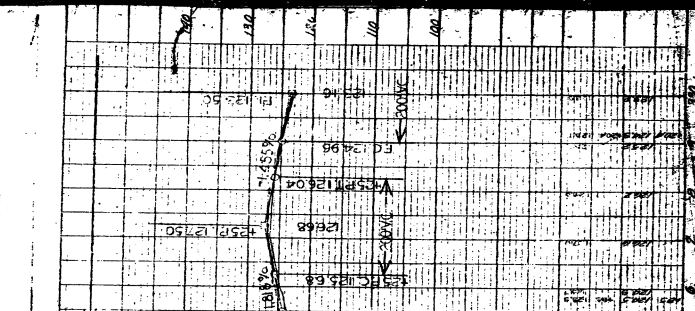
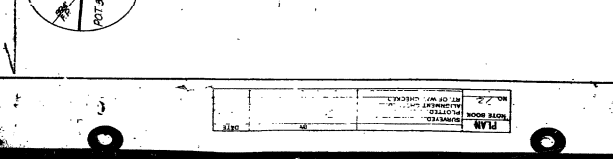
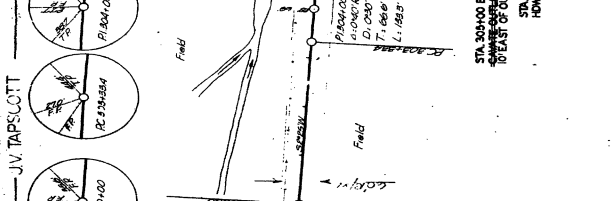
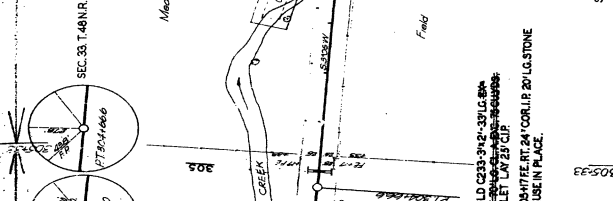
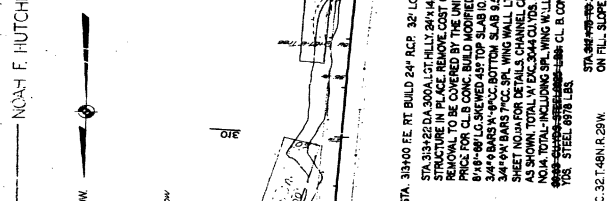
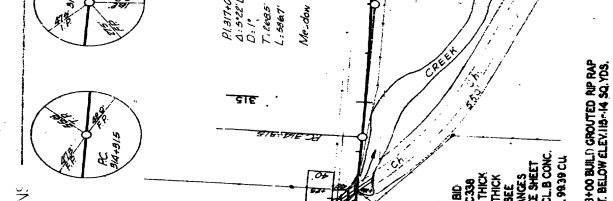
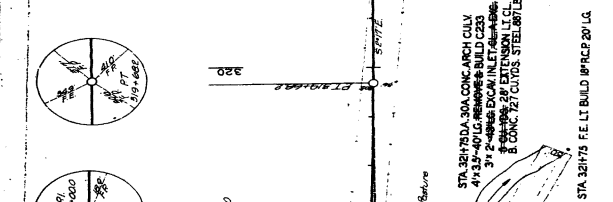
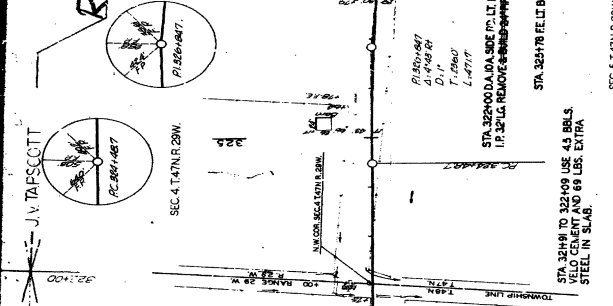
1:2

DATE: 10/1/74  
 DRAWN BY: J.V. TAPSCOTT  
 CHECKED BY: J.V. TAPSCOTT  
 IN CHARGE: J.V. TAPSCOTT

PROFILE  
 DATE: 10/1/74  
 DRAWN BY: J.V. TAPSCOTT  
 CHECKED BY: J.V. TAPSCOTT  
 IN CHARGE: J.V. TAPSCOTT



1879 OUTER BELT  
21 SW MILLS TO U.S. HY. BD  
7

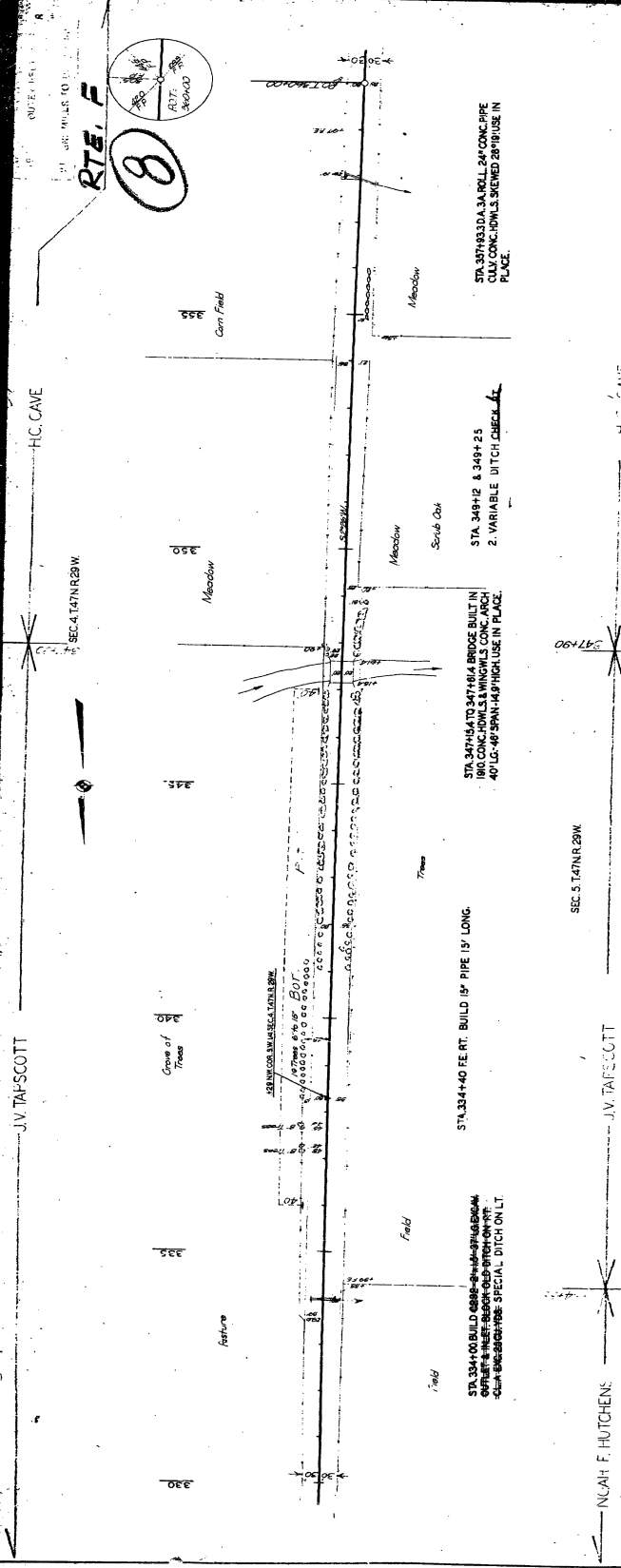


NO.	DATE	BY	REVISION
1			

NO.	DATE	BY	REVISION
1			

NO.	DATE	BY	REVISION
1			

1-3

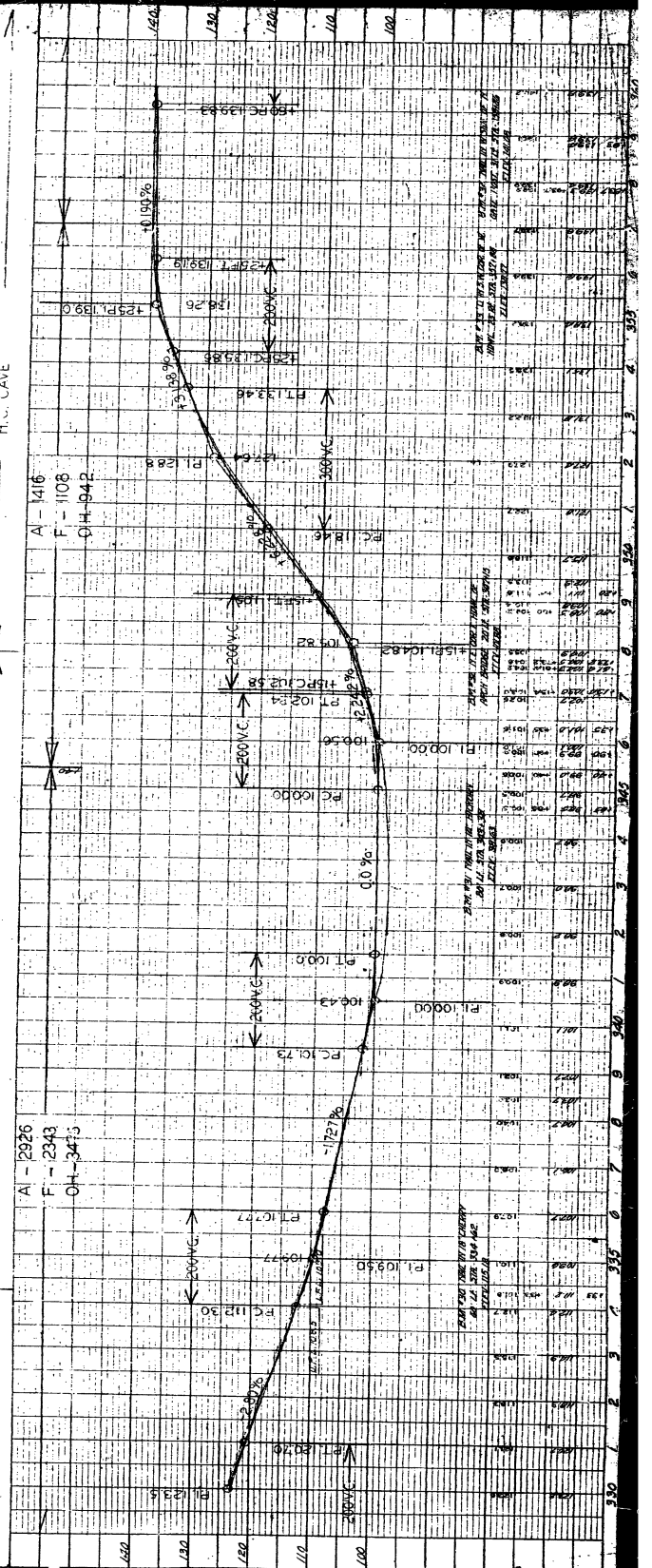


STA. 347+83.34 ROLL 24' CONC. PIPE  
V.C. CONC. HDWLS SKEWED 28° USE IN PLACE.

STA. 348+12 & 349+25  
2 VARIABLE DITCH CHANNELS

STA. 347+44 TO 347+81.4 BRIDGE BUILT IN  
180 CONC. HDWLS & WINGWLS CONC. ARCH  
40' LG. 48' SPAN 14.5' HIGH USE IN PLACE.

STA. 334+00 BUILD 6886-84-14-14  
OUTPUT 4 INLET 800 OLD DITCH ON RT  
5' DIA. CONC. PIPE - SPECIAL DITCH ON LT



J.V. TAPSCOTT

J.V. TAPSCOTT

A - 2926  
F - 2343  
OH - 3475

J.V. TAPSCOTT

PLAN

NO. 10

DATE

SCALE

PROFILE

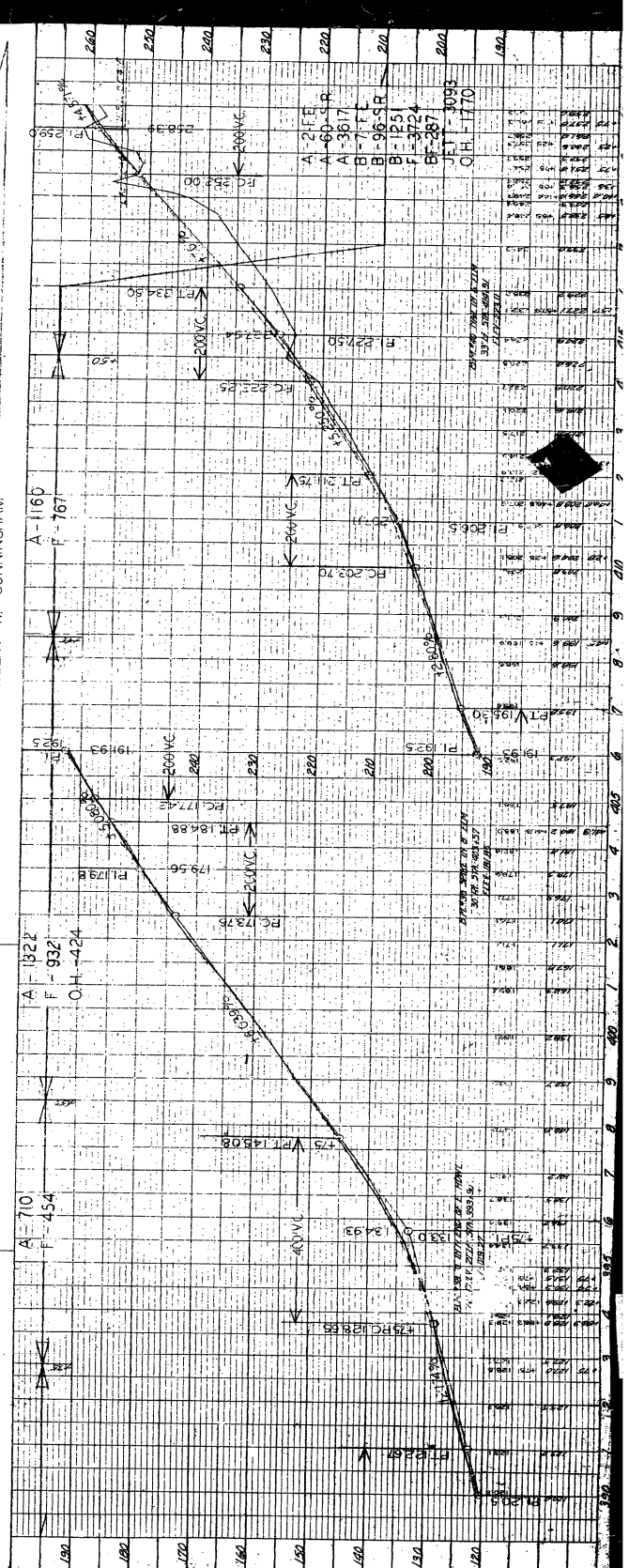
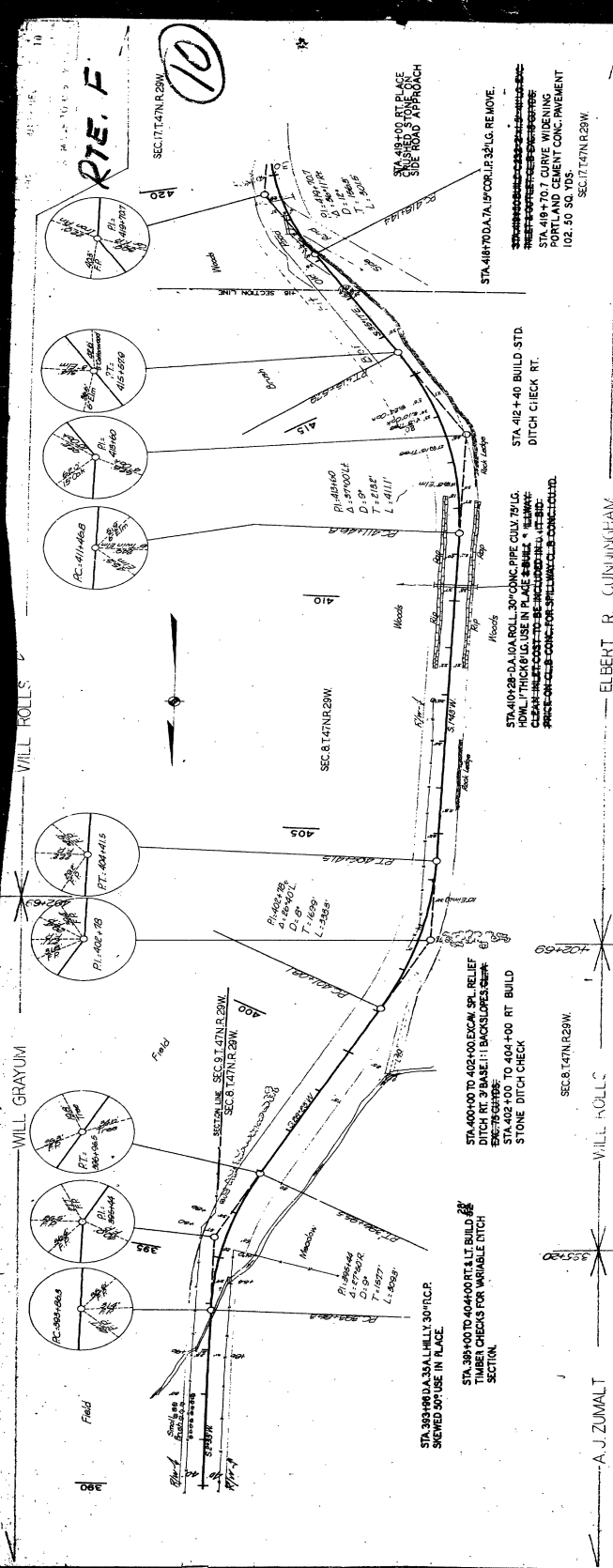
NO. 10

DATE

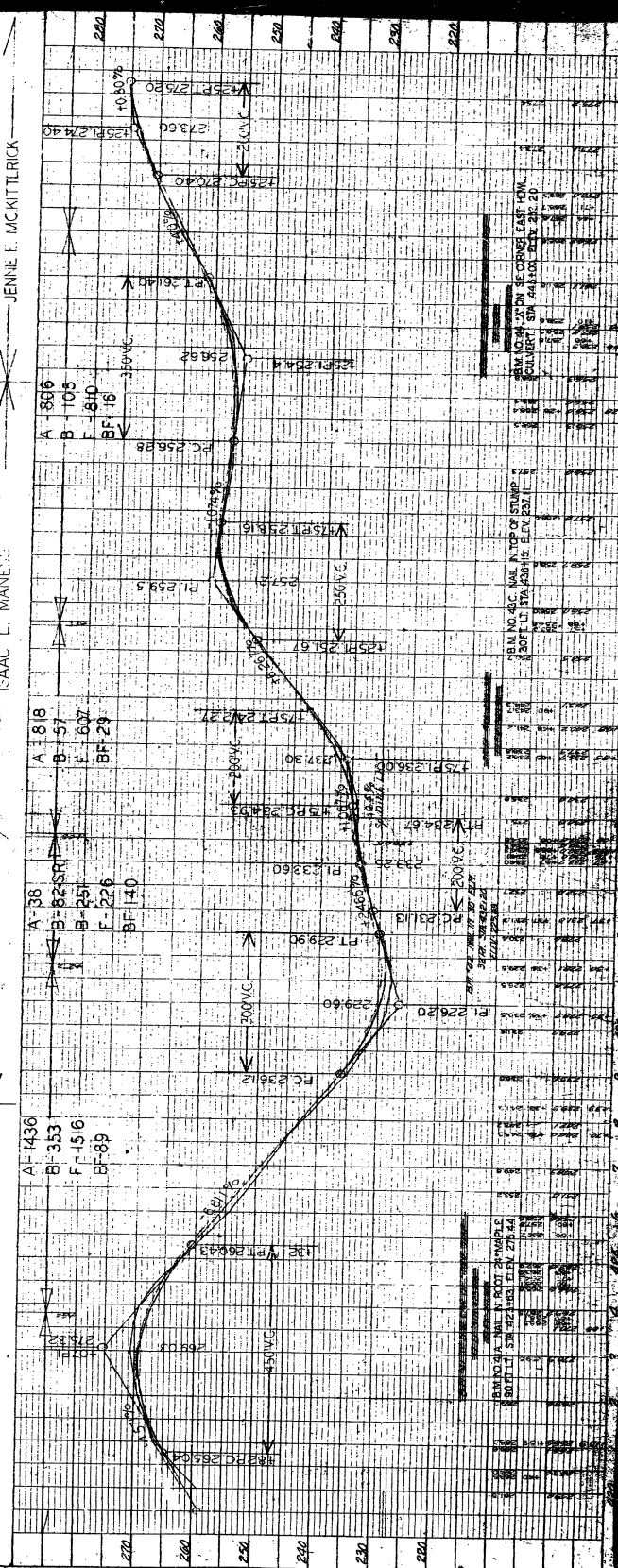
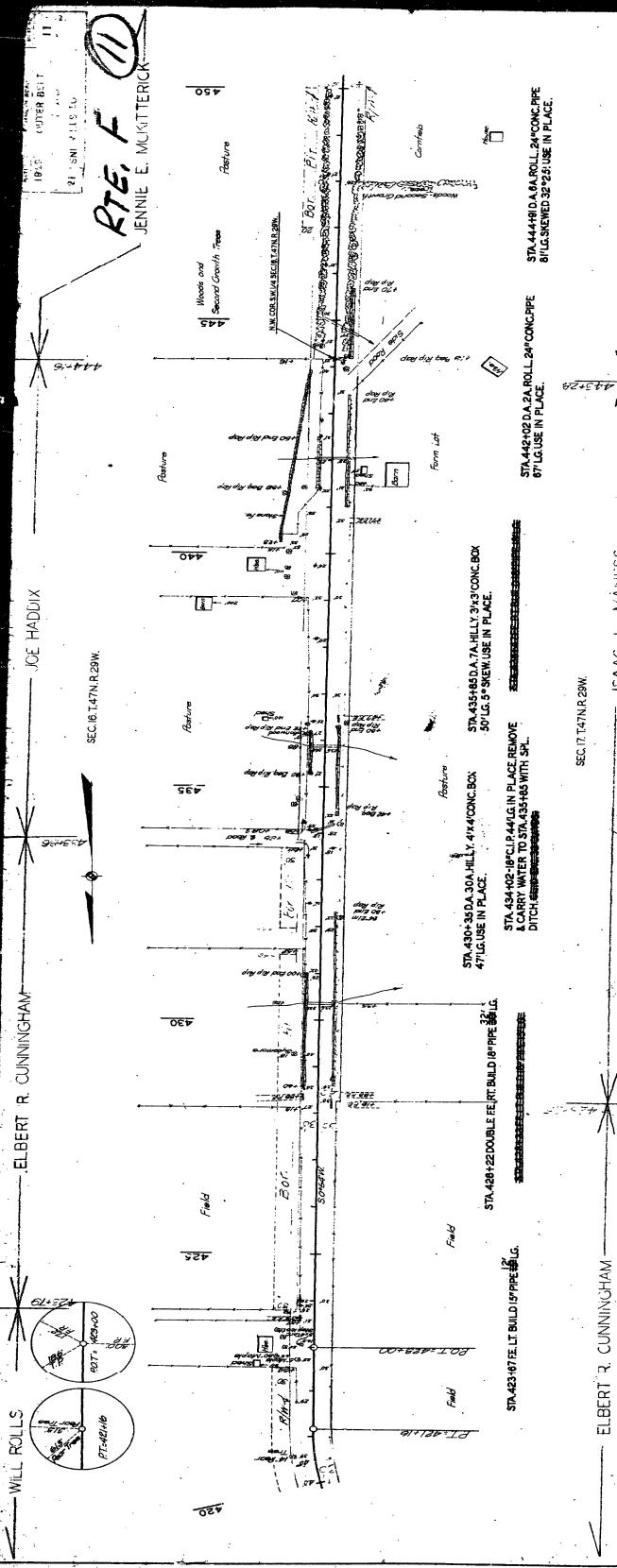
SCALE

14





STATION	PROFILE	VERTICAL CURVE	GRADE
180	180		
185	185		
190	190		
195	195		
200	200		
205	205		
210	210		
215	215		
220	220		
225	225		
230	230		
235	235		
240	240		
245	245		
250	250		
255	255		
260	260		



NO.	DATE	BY	DESCRIPTION
1	1945	J. E. MCKITTERICK	PREPARED
2	1945	J. E. MCKITTERICK	CHECKED
3	1945	J. E. MCKITTERICK	APPROVED

NO.	DATE	BY	DESCRIPTION
1	1945	J. E. MCKITTERICK	PREPARED
2	1945	J. E. MCKITTERICK	CHECKED
3	1945	J. E. MCKITTERICK	APPROVED

1.7



STEREONET

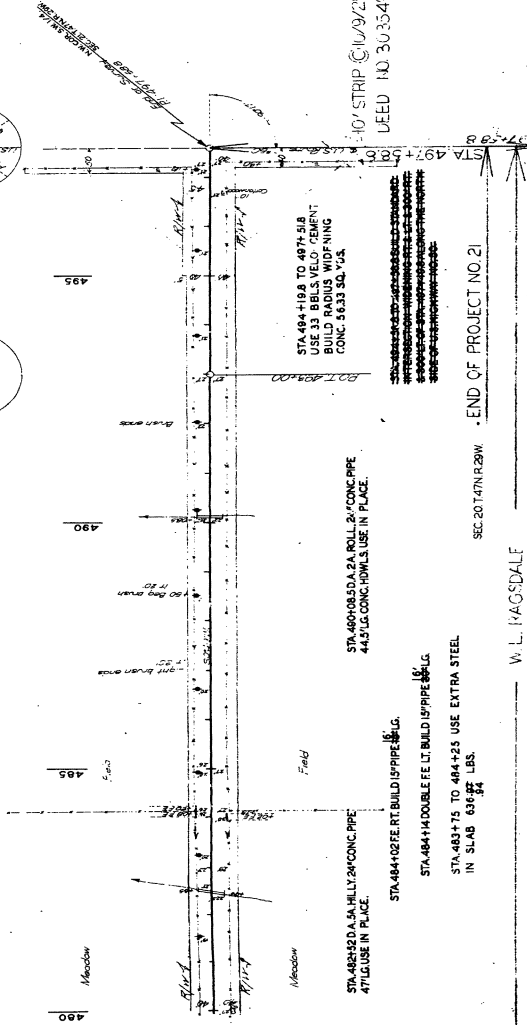
ALTON HILLS, MO

RTE. F

13

W. L. RAGSDALE

SEC. 21 T4N R. 23W

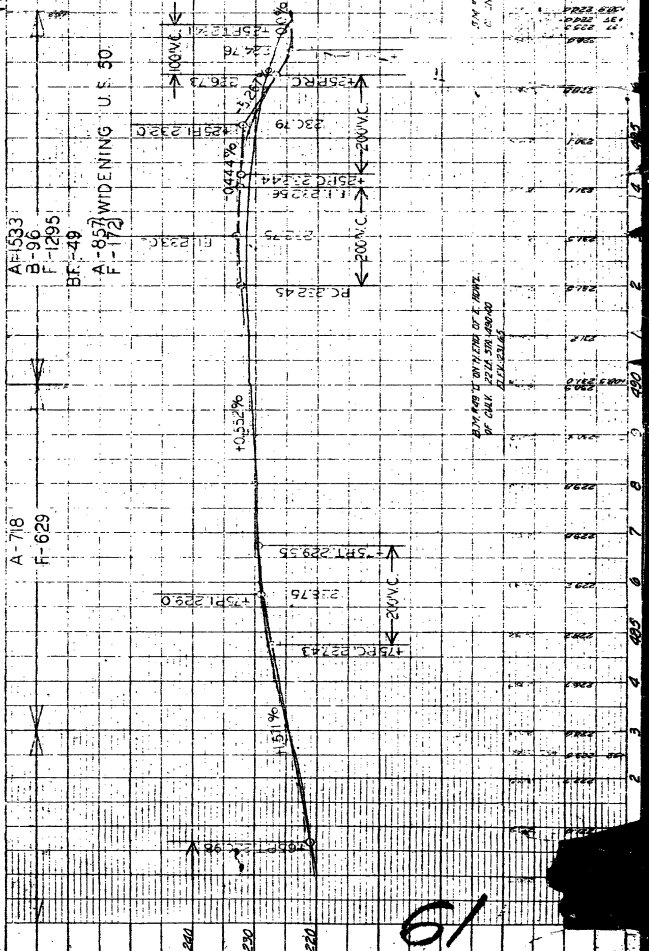


10' STRIP @ 10/9/29  
LEED NO. 303549

END OF PROJECT NO. 21

SEC. 20 T4N R. 23W

W. L. RAGSDALE



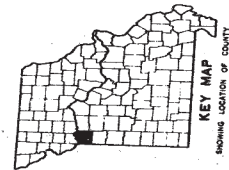
10

DATE	NOV 19 1950
SCALE	1" = 40'
PROJECT	ALTON HILLS, MO
DRAWN BY	W. L. RAGSDALE
CHECKED BY	
APPROVED BY	
DATE	

DATE	NOV 19 1950
SCALE	1" = 40'
PROJECT	ALTON HILLS, MO
DRAWN BY	W. L. RAGSDALE
CHECKED BY	
APPROVED BY	
DATE	

**INDEX OF SHEETS**

TITLE SHEET	1
TYPICAL SECTIONS (2 Sheets)	2-9
SUMMARY (1 Sheet)	2-A
PLAN PROFILE SHEETS	3-10-G
REFERENCE POINTS	11-13
SPECIAL SHEETS	14-16
SIGNALS	17-18
SIGNING	19-23
SURVEY SECTIONS	24
BRIDGE PLANS	25
STANDARDS	26
CROSS SECTIONS	27-30



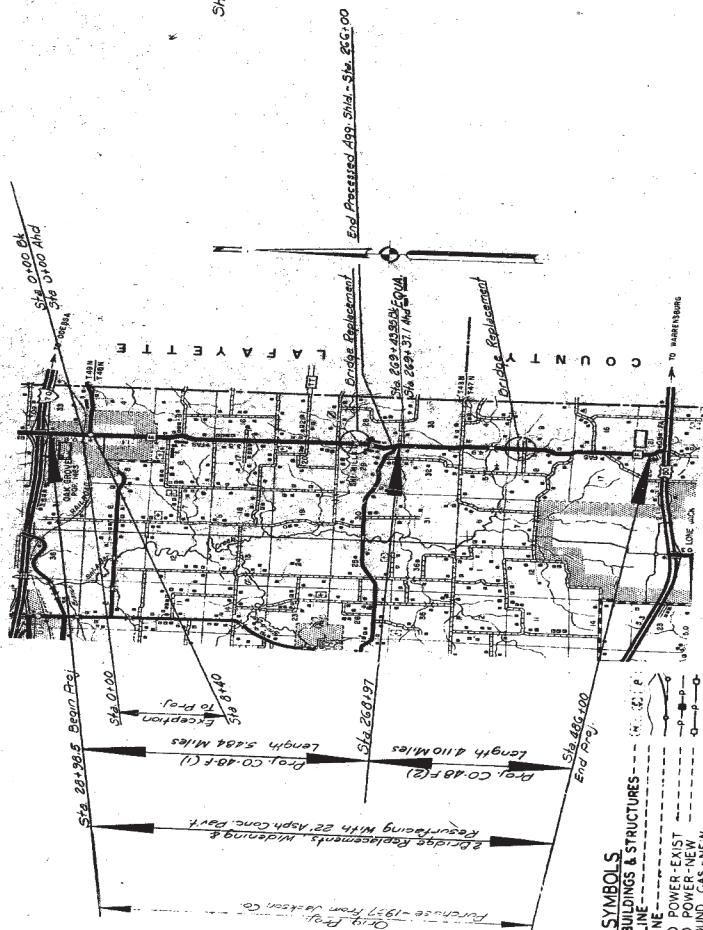
**DESIGN DESIGNATION**

ADT (1970) = 330  
 ADT (1990) = 900  
 D.H.V. (1990) = 10%  
 D=40%  
 T=3%  
 V=80 m.p.h.

**MISSOURI  
 STATE HIGHWAY COMMISSION  
 PLAN AND PROFILE  
 OF PROPOSED  
 STATE ROAD**

COUNTY  
**JACKSON**  
 STATE ROUTE NO.  
**2**  
 PROJECT NO.  
**C048F(2)**  
 FINAL PLANS

JACKSON COUNTY



**CONVENTIONAL SYMBOLS**

STATE LINE	---
COUNTY LINE	---
CITY LIMITS	---
TOWNSHIP OR RANGE LINE	---
OTHER LAND SURVEY LINES	---
FENCE LINE	---
GUARD RAIL	---
PROPERTY LINE	---
RIGHT OF WAY LINE	---
RAILROAD	---
SURVEY CENTER-LINE	---
CULVERT	---
OVERHEAD TELEPHONE NEW	---
OVERHEAD TELEPHONE EXIST	---

**TITLE SHEET LEGEND**

INTERCHANGE	---
GRADE SEPARATION	---
CONSTRUCTION IDENTIFICATION SIGNS	---



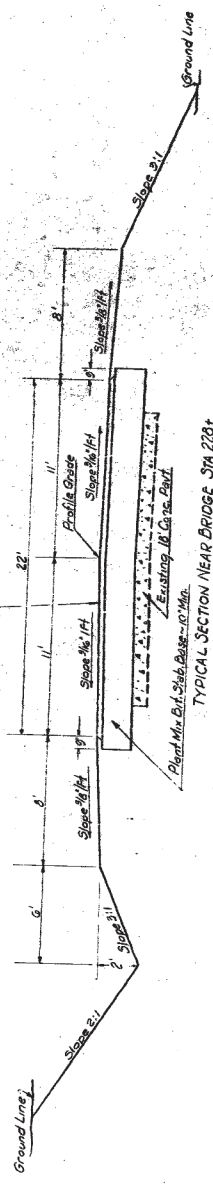
SUBMITTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHIEF ENGINEER  
 MISSOURI STATE HIGHWAY COMMISSION

204

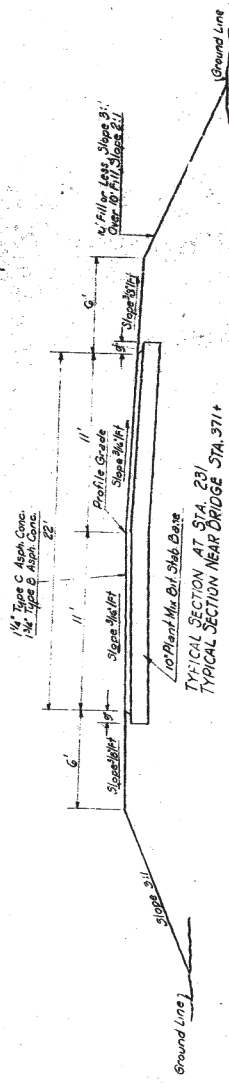


NO. 1	CO. 48 F(1)	NO. 1
NO. 2	JACKSON	NO. 2
NO. 3		NO. 3
NO. 4		NO. 4

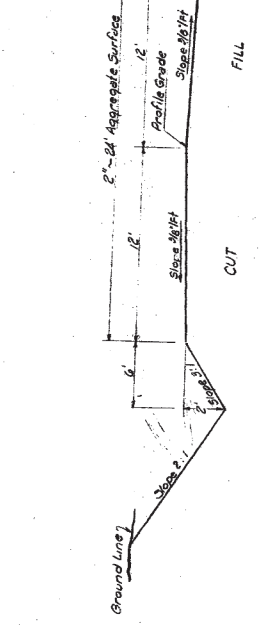
FINAL PLANS



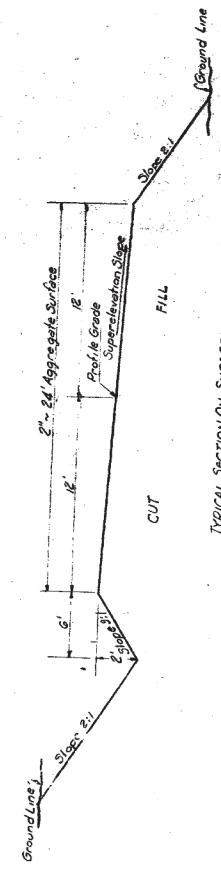
TYPICAL SECTION NEAR BRIDGE STA 228+



TYPICAL SECTION AT STA. 231



TYPICAL SECTION ON TANGENT



TYPICAL SECTION ON SUPER-ELEVATED CURVE

TEMPORARY BY-PASS

**GENERAL NOTES:**  
For details of super-elevation of the grade curves, drainage, etc., see other drawings.  
All information shown on these typical sections is for the purpose of indicating general design of roadway with slopes and details of construction of ditches and other features. Slopes and details shown on the cross sections and plan-profile sheets are as directed by the Engineer.

MISSOURI STATE HIGHWAY COMMISSION  
SUPPLEMENTARY SYSTEM  
TYPICAL SECTIONS  
ROUTE F JACKSON COUNTY  
PROJ. CO 48 F(1)(2)

Sheet 3 of 3

DATE	BY	CHECKED	APPROVED

NO. 1	CO. 48 F(1)	NO. 1
NO. 2	JACKSON	NO. 2
NO. 3		NO. 3
NO. 4		NO. 4

LOCATION Abund. O.E. Niles, South of Hwy 60  
 TYPE Co., Cut, Widening and Base Course, 21.5' High, Base and A.C.C.

MISSOURI STATE HIGHWAY COMMISSION  
 SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	GENERAL SUMMARY		FINAL PLANS	
			QUANTITY	PRICE	QUANTITY	PRICE
371-564	EXCAVATION					
371-565	CONCRETE BOX CULVERTS					
371-566	CLASS III R.C.P. CULVERTS					
371-567	ENTRANCES (GROUP)					
371-568	CULVERT CLEANOUT					
371-569	STEEL RIGID-GR-WAY MARKERS					
371-570	MOVABLE BARRICADES					
371-571	PAVEMENT REPAIR					
371-572	SEED AND MULCH					
371-573	TOTAL					
371-574	CONCRETE BOX CULVERTS					
371-575	CLASS III R.C.P. CULVERTS					
371-576	ENTRANCES (GROUP)					
371-577	CULVERT CLEANOUT					
371-578	STEEL RIGID-GR-WAY MARKERS					
371-579	MOVABLE BARRICADES					
371-580	PAVEMENT REPAIR					
371-581	SEED AND MULCH					
371-582	TOTAL					



Prepared by: J. Chaschka Date: 12/15/72 Checked in Dist. Office by: J. Chaschka Date: 12/15/72 Checked in Const. Office by: J. Chaschka Date: 12/15/72

908

5	CO. 28	FD
JACKSON		

FINAL PLANS

NW 1/4 NW 1/4 Sec. 9

NE 1/4 NE 1/4 Sec. 8

SE 1/4 NE 1/4 Sec. 8

Robert Paul Smith & Madeline L. Smith  
 All of NW 1/4 NW 1/4 Sec. 9  
 East 39 1/2 Ac. of NE 1/4 NE 1/4 Sec. 8  
 New RW 0.39 Ac. (0.21 Ac. Lt., 0.18 Ac. RI)  
 Remaining Lt. 39.79 Ac.  
 Remaining RI 32.84 Ac.  
 Perm. Eas. Lt. 0.53 Ac. Channel Change

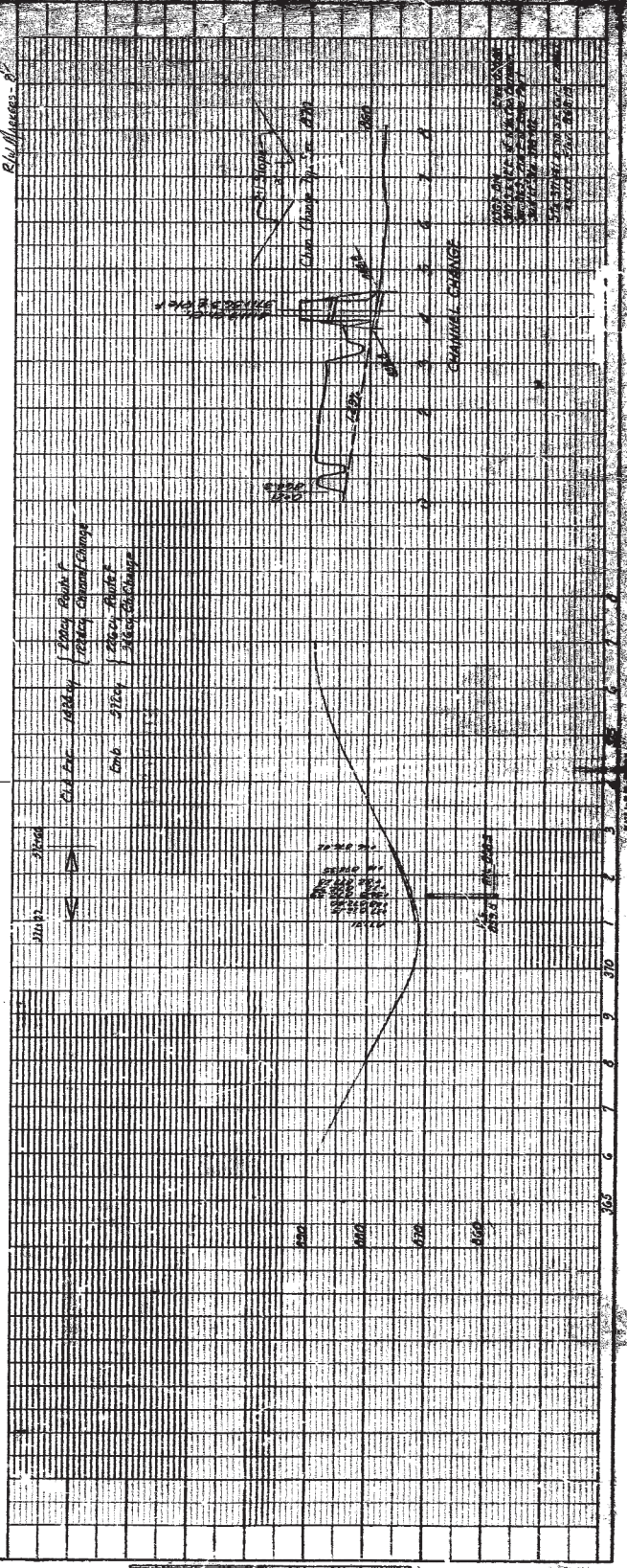
Paper Lines are Property of West Central Mo. Electric Co., Springfield, Mo.

Sta. 371+50.3 DA 396.4c of O.G. Loc. 8+71.57 Cont. Curve SW 798.4c

- Channel Change
- A 213.4
  - B 161.30
  - C 9
  - D 106.5
  - E 106.5
  - F 637.3

Sta. 361.825  
 Loc. 8+118.8  
 Sta. 361.825  
 No. 21 JULY 22, 1957  
 Recorded C. 4. 31, 1958  
 Bl. 177 of 241, House  
 Jackson Co. Court House

POT 361+21.75



DATE	BY	REVISION

DATE	BY	REVISION

207

# LIST OF STANDARD PLANS

PROJ. CO.	SHEET <i>4</i>	RTE. <i>F</i>	
<i>607.00</i>			
<i>612.10</i>			
<i>612.20</i>			
<i>612.25</i>			
<i>614.10</i>			
<i>703.15</i>			
<i>703.30</i>			
<i>703.35</i>			
<i>704.80</i>			
<i>724.30</i>			
<i>703.00</i>			
<i>203.00</i>			
<i>212.20</i>			
<i>203.31</i>			
<i>503.00A</i>			
<i>602.00</i>			
<i>604.00</i>			
<i>604.27</i>			
<i>606.00</i>			
<i>606.20</i>			
<i>606.50</i>			

*808*

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION PLANS FOR PROPOSED STATE HIGHWAY JACKSON COUNTY

DESIGN DESIGNATION  
A.A.D.T. - 2019 = 6032  
V = 55 M.P.H.



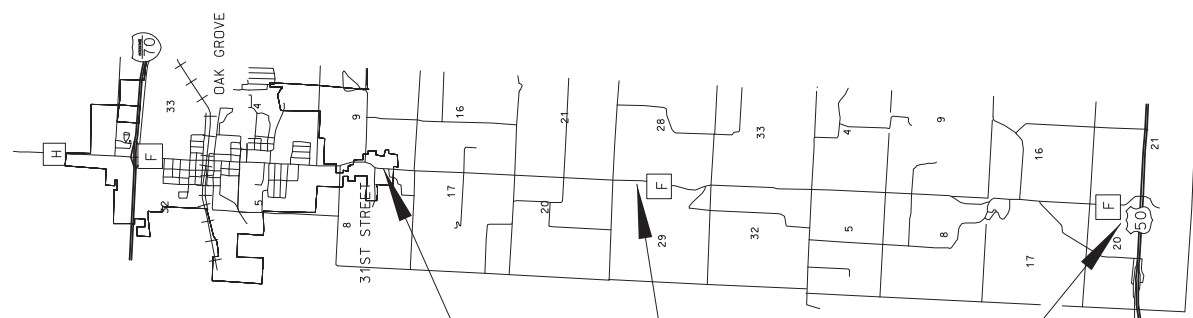
NOT TO SCALE

1" CONTRACT  
LEVELING COURSE,  
1% PLANT MIX  
BITUMINOUS  
PAVEMENT PG64-22

EXCEPTION: BRIDGE NO. A2548  
SB LOG MILE: 5.054 - 5.075

SB LOG MILE: 2.570

SB LOG MILE: 10.200



INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEET)	2
QUANTITIES (QU) (1 SHEET)	3
SPECIAL SHEET (SS)	4
TRAFFIC CONTROL SHEETS (TC)	5-9

LENGTH OF PROJECT

BEGINNING OF PROJECT	BEG LOG MILE 2.570 SB
END OF PROJECT	END LOG MILE 10.200 SB
APPEARANT LENGTH	7.630 MILES
EXCEPTIONS:	0.021 MILES
BRIDGE NO. A2548	

NET LENGTH OF PROJECT	7.609 MILES
STATE LENGTH	7.609 MILES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6696)

DATE \_\_\_\_\_ DESCRIPTION \_\_\_\_\_

BRIDGE NO. \_\_\_\_\_ PROJECT NO. \_\_\_\_\_ CONTRACT ID. \_\_\_\_\_ JOB NO. \_\_\_\_\_ COUNTY \_\_\_\_\_

JACKSON J453310 K.C. 1

DATE PREPARED 10/31/2018  
STATE MO  
ROUTE \_\_\_\_\_ DISTRICT \_\_\_\_\_ SHEET NO. 1

DESIGNED BY \_\_\_\_\_

CHECKED BY \_\_\_\_\_

IN CHARGE \_\_\_\_\_



ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



DATE PREPARED  
10/31/2018

ROUTE  
10

STATE  
MO

DISTRICT  
KC

SHEET NO.  
2

COUNTY  
JACKSON

JOB NO.  
J453310

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

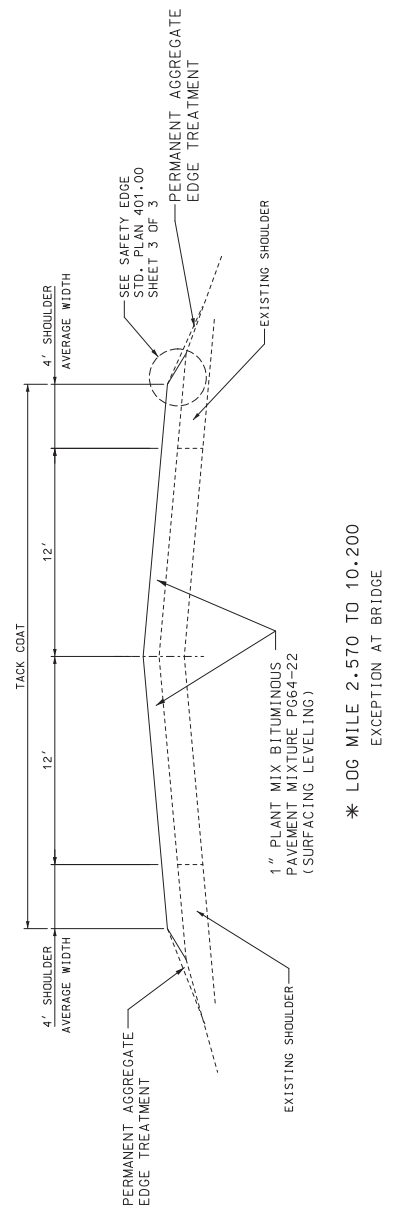
105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6963)



BITUMINOUS PAVEMENT MIXTURE P664-22 (SURFACE LEVELING)	1.98 TON/YD <sup>3</sup>
TACK COAT	0.08 GAL/YD <sup>2</sup>
PERM. AGG. EDGE TREATMENT	1.88 TONS/CY

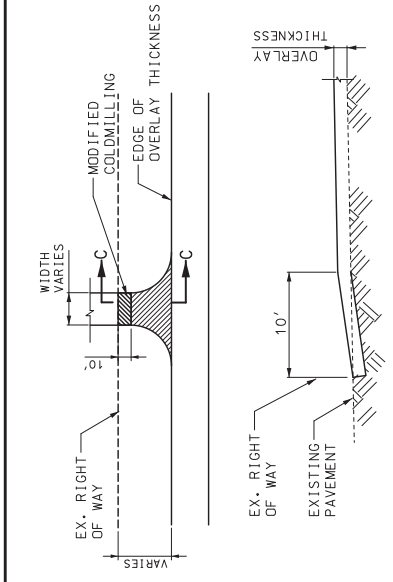


TYPICAL SECTIONS

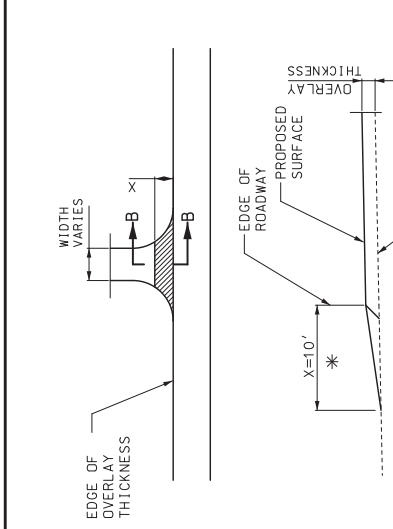
NOTE: SURFACE PLACEMENT SHALL BE ONE PASS PER LANE NO S.E. CORRECTION.

\* 7' AVERAGE WIDTH SHOULDERS AT LOG MILES 5.030 TO 5.054 AND AT 5.075 TO 5.099

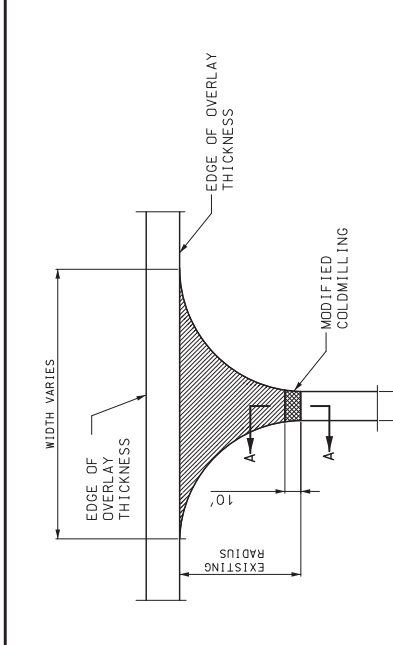




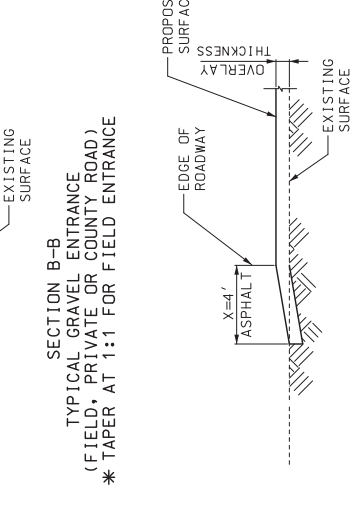
SECTION C-C  
 TYPICAL ASPHALT FOR  
 CITY OR COUNTY ROAD



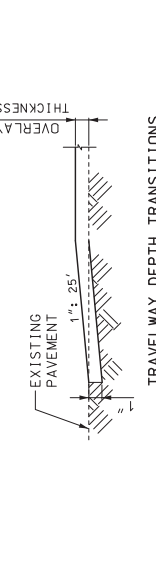
SECTION B-B  
 TYPICAL GRAVEL ENTRANCE  
 (FIELD, PRIVATE OR COUNTY ROAD)  
 \* TAPER AT 1:1 FOR FIELD ENTRANCE



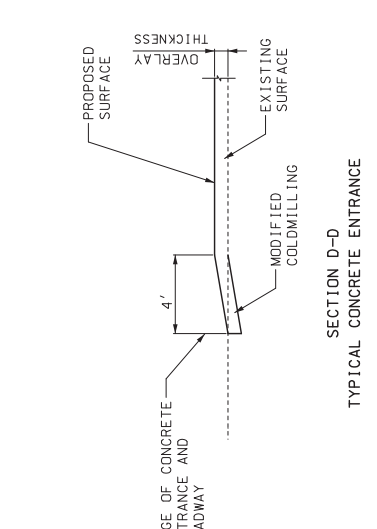
SECTION A-A  
 TYPICAL STATE ROUTE JUNCTION  
 (COLDMILLED TRANSITION)



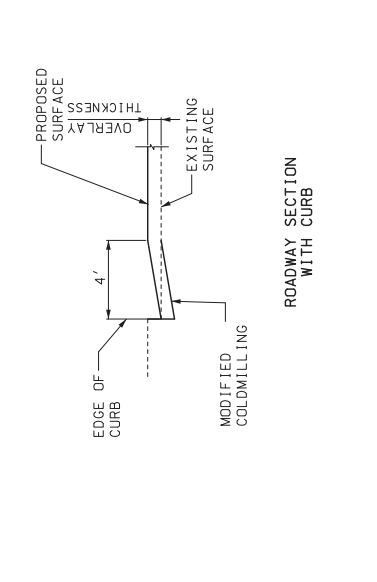
SECTION B-B  
 TYPICAL ASPHALT ENTRANCE



TRAVELWAY DEPTH TRANSITIONS  
 BEGINNING AND END OF PROJECT  
 AND EXCEPTIONS



SECTION D-D  
 TYPICAL CONCRETE ENTRANCE



ROADWAY SECTION  
 WITH CURB





DATE PREPARED  
9/26/2018

STATE  
MO

ROUTE  
KC

DISTRICT  
5

COUNTY  
JACKSON

JOB NO.  
J453310

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

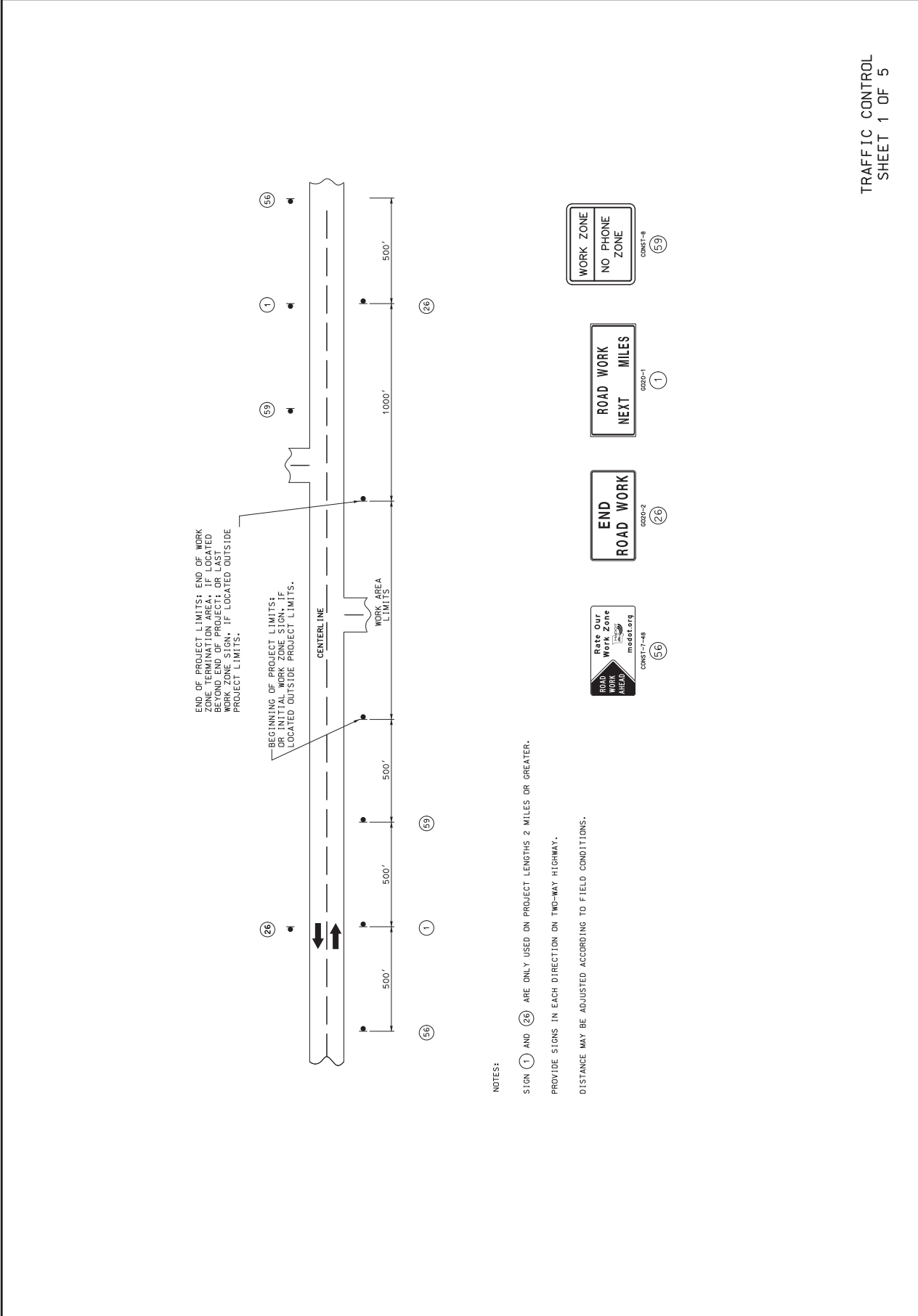
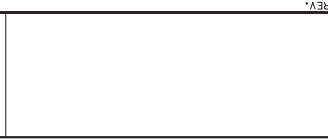
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6963)

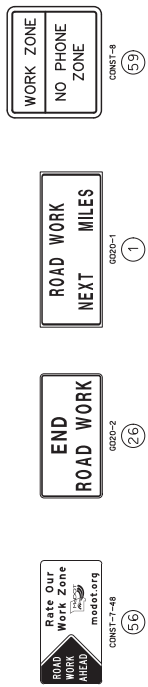


NOTES:

SIGN (1) AND (26) ARE ONLY USED ON PROJECT LENGTHS 2 MILES OR GREATER.

PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.







DATE PREPARED: 9/26/2018  
 STATE: MO  
 COUNTY: JACKSON  
 PROJECT NO.: J453310  
 BRIDGE NO.:  
 DISTRICT: 7

DESCRIPTION: MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 DATE: 105 WEST CAPITOL JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6963)

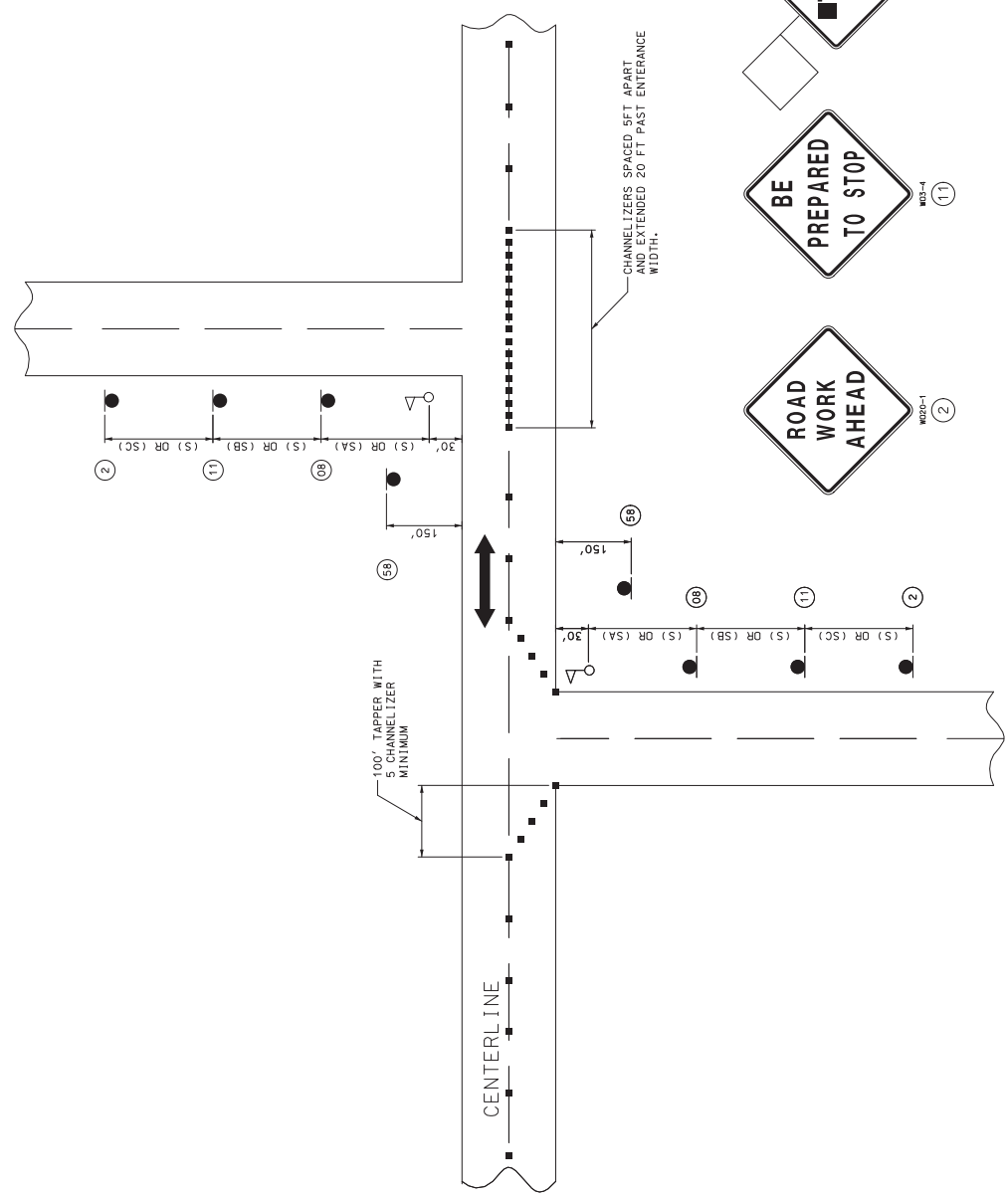


SIGN SPACING (FT.)	
PERMANENT UPRIGHT SIGNS (RPMH)	NON-DIVIDED HIGHWAYS (S)
0-35	200
40-45	350
50-55	500
60-70	1000
	(SA)-1000 (SB)-1500 (SC)-2000

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

NOTES:  
 WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.  
 ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.

- - CHANNELIZERS ( AS SPECIFIED )
- - FLAGGER



W020-1  
(2)

W03-4  
(11)

W020-46  
(58)

SIGN 58, SHALL BE PLACED AT ALL SIDE ROADS WHEN IN USE DURING OPERATION.

STATE OF MISSOURI  
 PUBLIC WORKS  
 DIVISION  
 PROJECT NUMBER  
 E-2001  
 DATE PREPARED  
 9/26/2018

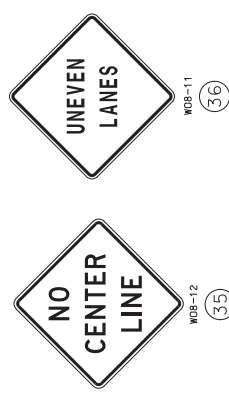
STATE  
 MO  
 COUNTY  
 JACKSON  
 JOB NO.  
 J453310  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.

DATE PREPARED  
 9/26/2018  
 ROUTE  
 MO  
 DISTRICT  
 KC  
 COUNTY  
 JACKSON  
 JOB NO.  
 J453310  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-888-275-6963)

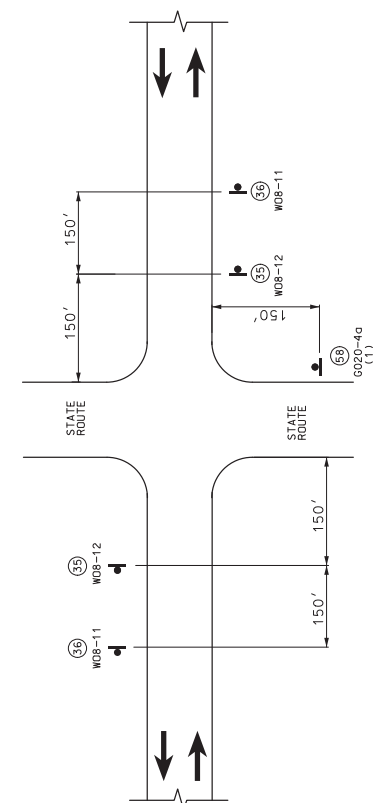


SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE



NOTES:  
 SIGN (35) AND TYPE 2 TRPM INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.  
 SIGN (36) IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN (35), THE LATTER MAY BE ELIMINATED.  
 ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE WITH STANDARD PLAN 616.10 AND 903.03.

SIGN SPACING AT STATE ROUTE INTERSECTIONS SHOWING TEMPORARY STRIPING FOR MAINLINE



(1) ADDITIONAL SIDERADS MAY BE SIGNED AS APPROVED BY THE ENGINEER.

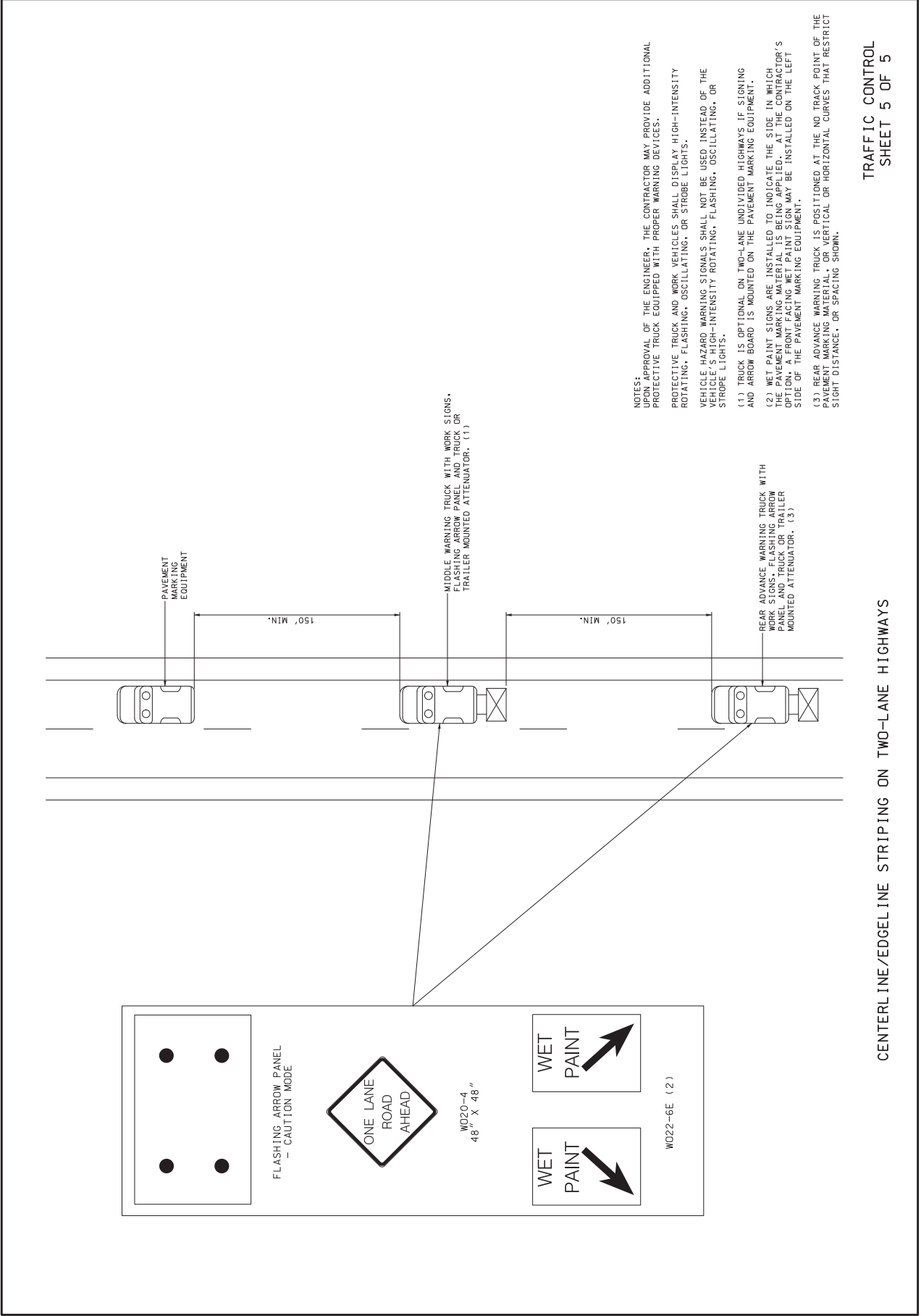
DATE PREPARED	9/26/2018
ROUTE	MO
DISTRICT	9
COUNTY	JACKSON
JOB NO.	J453310
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	
DATE	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MOTD (1-888-275-6963)



- NOTES:
- (1) UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCK EQUIPPED WITH PROPER WARNING DEVICES.
  - (2) PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.
  - (3) VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE TRUCK'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.
  - (4) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.
  - (5) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.
  - (6) REAR ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN.