

A.A.D.T. - 2022 = 101,870 (I-70)
V = 60 M.P.H. (I-70)
FUNCTIONAL CLASSIFICATION- INTERSTATE

A.A.D.T. - 2022 = 103,162 (I-64)
V = 60 M.P.H. (I-64)
FUNCTIONAL CLASSIFICATION- INTERSTATE

A.A.D.T. - 2022 = 43,524 (RTE. 370)
V = 60 M.P.H. (RTE. 370)
FUNCTIONAL CLASSIFICATION- FREEWAY

CONVENTIONAL SYMBOLS

(USED IN PLANS)

NOTE: DASHED OR OPEN SYMBOLS INDICATE
EXISTING FEATURES

ST. CHARLES COUNTY

-I-70 & T.R. HUGHES BLVD.
SEDIMENT REMOVAL (BELLEAU CREEK)
AND CULVERT CLEANOUT

-RTE. 370 & TRUMAN BLVD.
CULVERT CLEANOUT

-RTE. 370 & RTE. 94
CULVERT CLEANOUT

ST. LOUIS COUNTY

NOT TO SCALE

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (2 SHEETS)---	2
QUANTITIES (QU) (2 SHEETS)-----	3
PLAN-PROFILE (PL)-----	4-8
TRAFFIC CONTROL SHEETS (TC)-----	9-16
CROSS SECTIONS (XS)-----	1-4



DATE PREPARED
2/6/2024

ROUTE 70/64/370	STATE MO
DISTRICT SL	SHEET NO. 1

COUNTY	AS B
ST. LOUIS & ST. CHARLES	

JOB NO.
JSLM0028

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]

STRUCTURE @ RTE. 370 & RTE. 94

BEGINNING OF PROJECT	STA.	499 + 72.00	FEET
END OF PROJECT	STA.	502 + 48.00	FEET
		276.00	FEET

STRUCTURE @ I-64 & LONG RD.

BEGINNING OF PROJECT	STA.	184 + 75.00	FEET
END OF PROJECT	STA.	185 + 40.00	FEET
		65.00	FEET

STRUCTURE AT I-70 & T.R. HUGHES/BELLEAU CREEK

BEGINNING OF PROJECT	STA. 25 + 067.40	METER
END OF PROJECT	STA. 25 + 408.30	METER
340.9 METERS =		1118.44 FEET

STRUCTURE @ RTE. 370 & TRUMAN BLVD

BEGINNING OF PROJECT	STA. 44 + 48.00	FEET
END OF PROJECT	STA. 47 + 93.00	FEET
	345.00	FEET

APPARENT LENGTH	1804.44 FEET
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EQUATIONS AND EXCEPTIONS: 0.00 FEET

TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	1804.44	FEET
STATE LENGTH	0.34	MILES

FOR INFORMATION ONLY	
ESTIMATED DISTURBED ACRES	2.5 ACRES



HART
ENGINEERING, L.L.C.

3207 FAIRVIEW LANE
ST. LOUIS, MO 63129

PHONE (314) 803-0528
MO Cert. of Auth. #2008000100

DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION



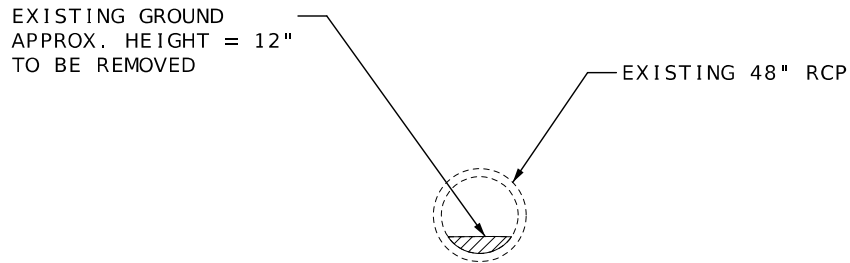
CULVERT MAINTENANCE

TITLE SHEET

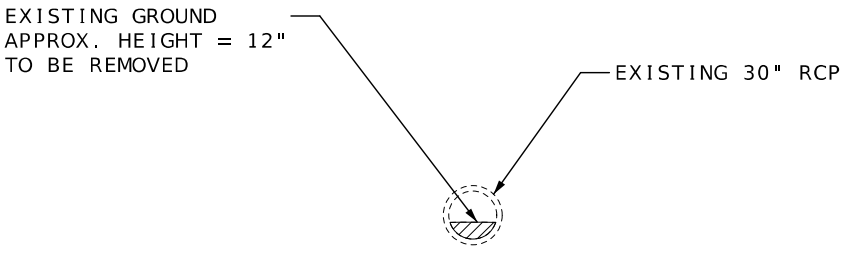
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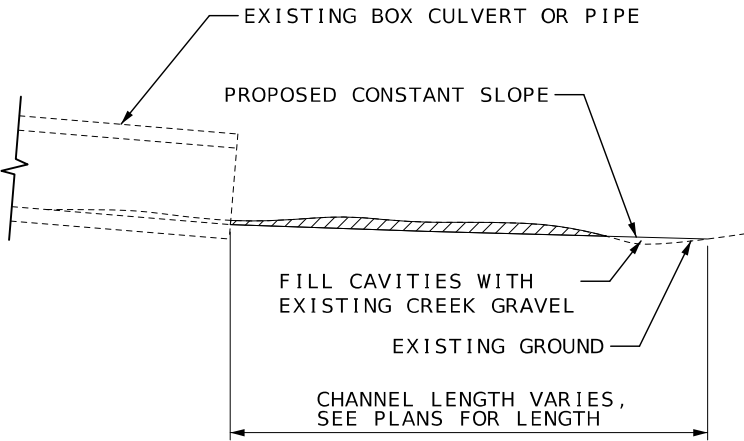
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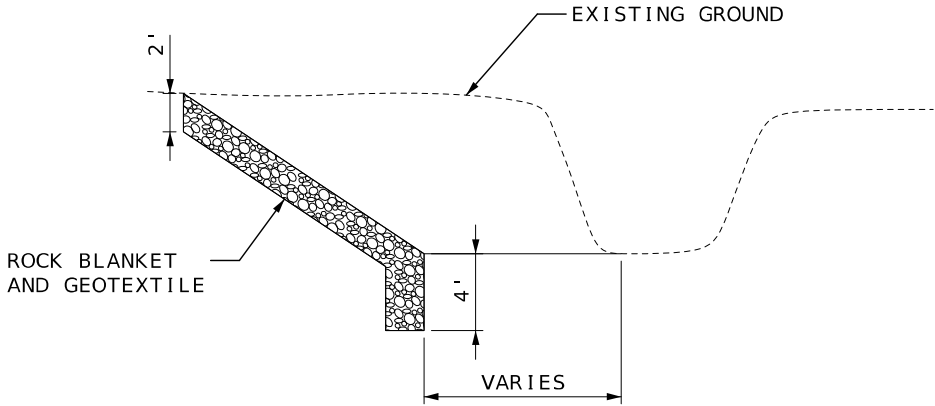
PIPE CULVERT CLEANOUT
TRUMAN BLVD. STATION 46+35
APPROX. 324' TOTAL LENGTH




PIPE CULVERT CLEANOUT
TRUMAN BLVD. STATION 46+05
APPROX. 63' TOTAL LENGTH



TYPICAL CHANNEL CLEANOUT
CLASS A EXCAVATION



TYPICAL CREEK BED CLEANOUT
GRADING AT EACH END OF CULVERT




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DATE PREPARED
2/6/2024

ROUTE
70/64/370

STATE
MO

DISTRICT
SL

SHEET NO.
2

COUNTY
ST. LOUIS & ST. CHARLES

JOB NO.
JSLM0028


CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



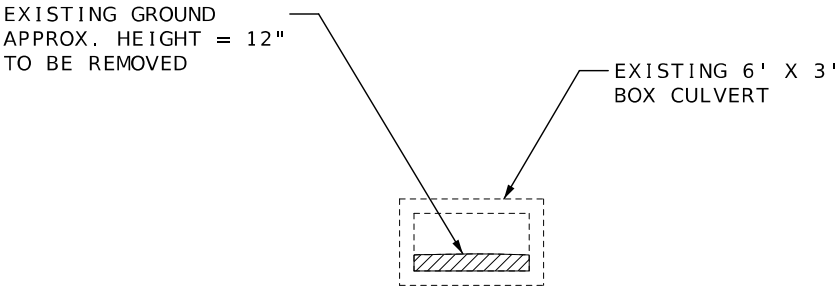
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

CULVERT MAINTENANCE

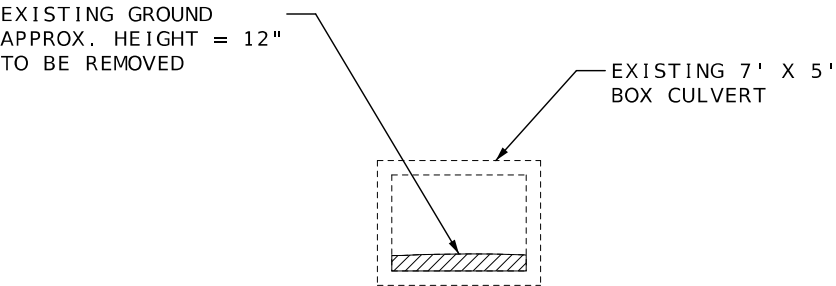
TYPICAL SECTION - SHEET 1 OF 2

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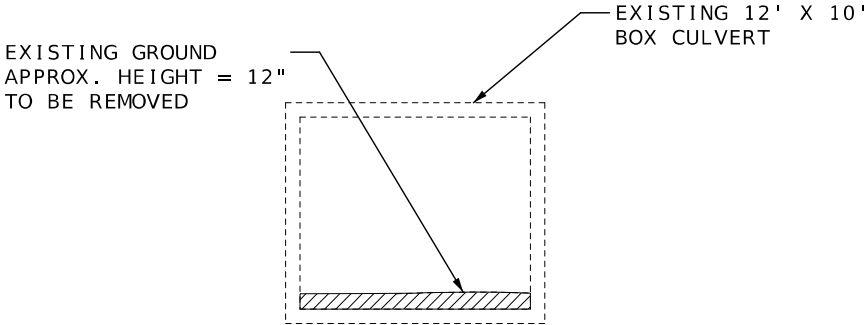
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BOX CULVERT CLEANOUT
ROUTE 370 STATION 500+50
APPROX. 400' TOTAL LENGTH



BOX CULVERT WITH HEADWALL CLEANOUT
I-64 STATION 185+20
APPROX. 600' TOTAL LENGTH



BOX CULVERT CLEANOUT
T.R. HUGHES BLVD. STATION 1+284
APPROX. 291' TOTAL LENGTH



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DATE PREPARED 2/6/2024	
ROUTE 70/64/370	STATE MO
DISTRICT SL	SHEET NO. 2
COUNTY ST. LOUIS & ST. CHARLES	
JOB NO. JSLM0028	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	


DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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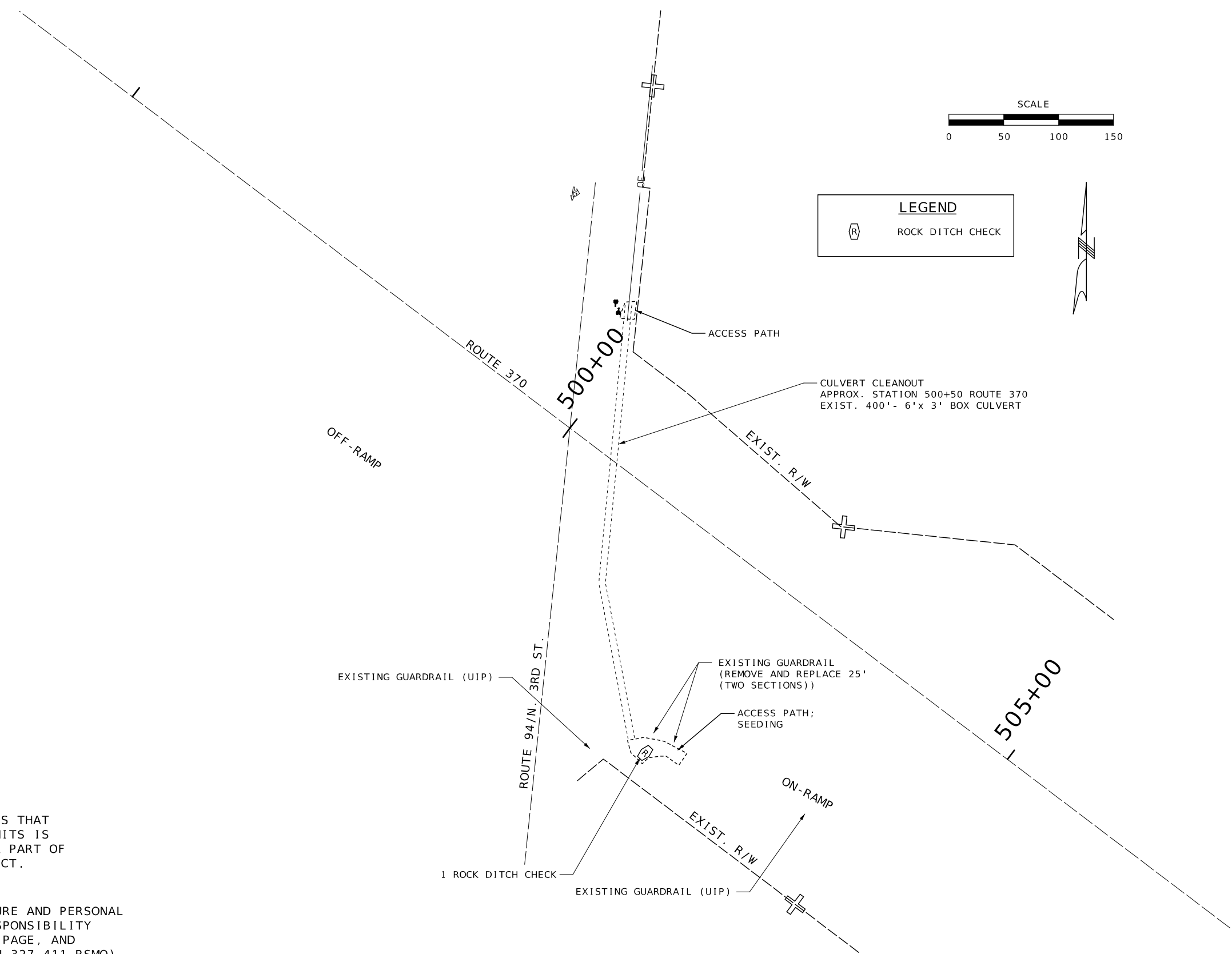
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LEGEND

ROCK DITCH CHECK

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DATE PREPARED 2/6/2024	
ROUTE 70/64/370	STATE MO
DISTRICT SL	SHEET NO. 4
COUNTY ST. LOUIS & ST. CHARLES	
JOB NO. JSLM0028	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

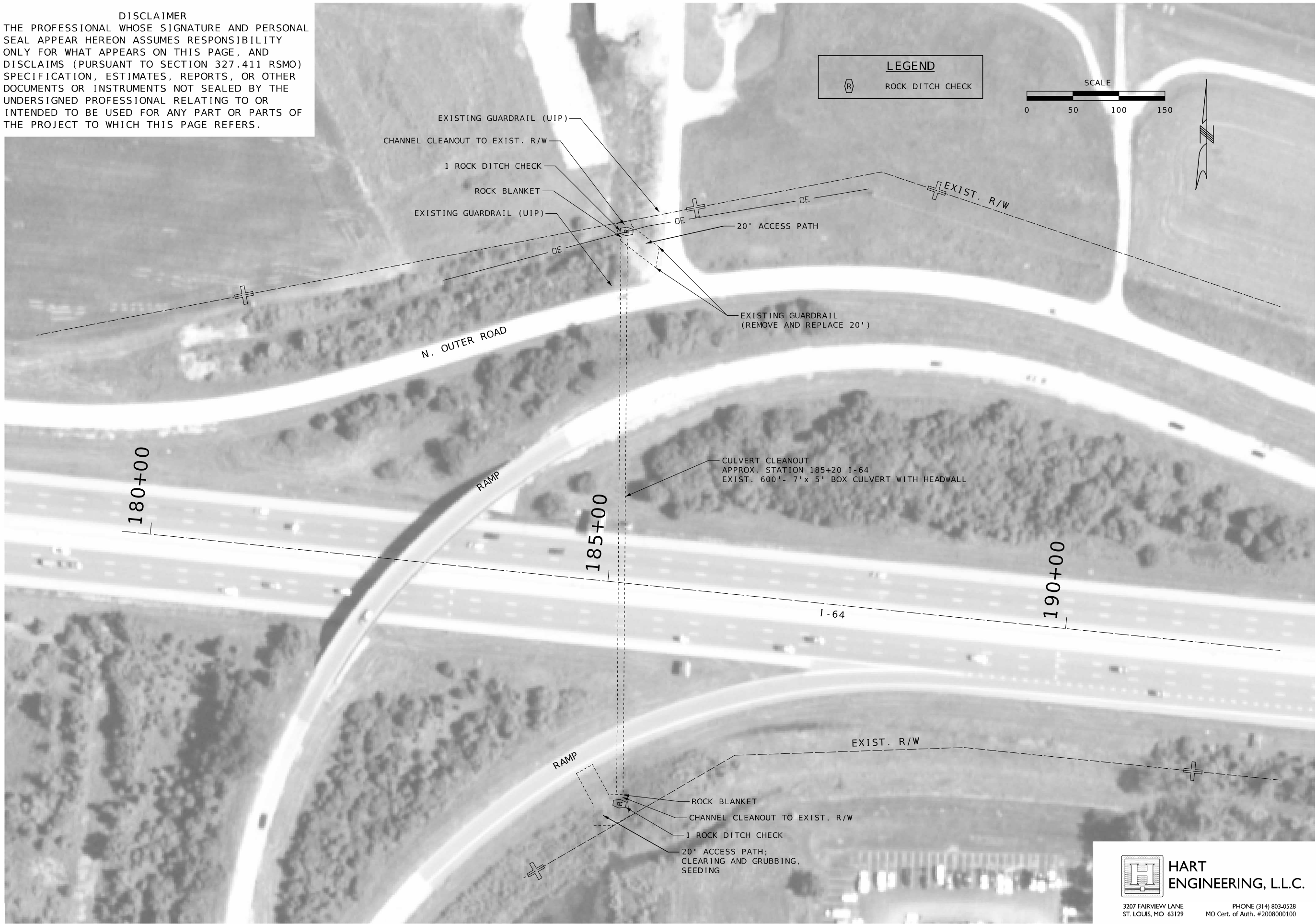
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
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CULVERT MAINTENANCE
ROUTE 370 AT ROUTE 94

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ROUTE
70/64/370

DISTRICT
SL

STATE
MO

SHEET NO.
5

COUNTY
ST. LOUIS & ST. CHARLES

JOB NO.
JSLM0028


CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



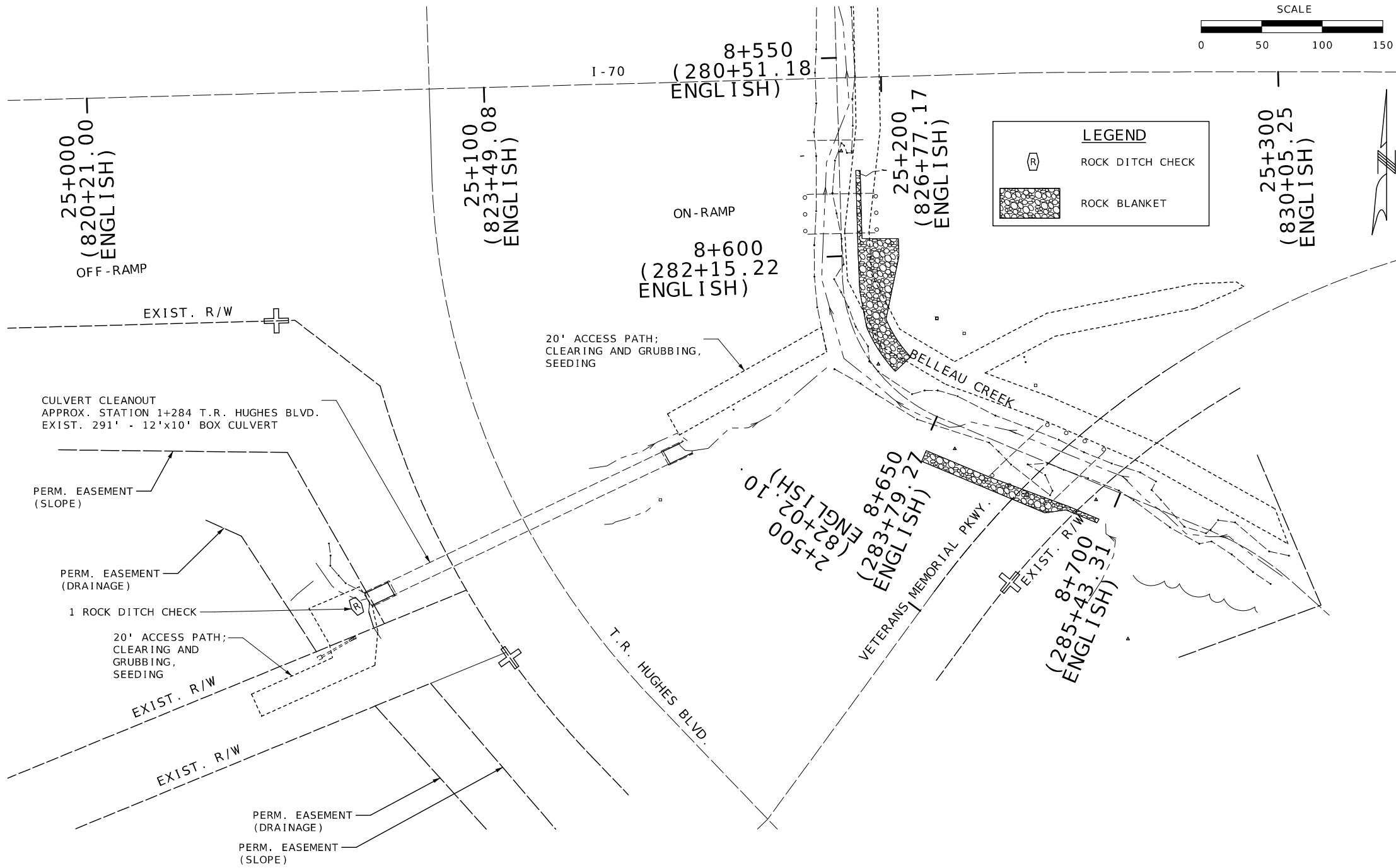
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
CULVERT MAINTENANCE


I-64 AT LONG ROAD

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2/6/2024

ROUTE 70/64/370	STATE MO
DISTRICT SL	SHEET NO. 6
COUNTY ST. LOUIS & ST. CHARLES	
JOB NO. JSLM0028	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

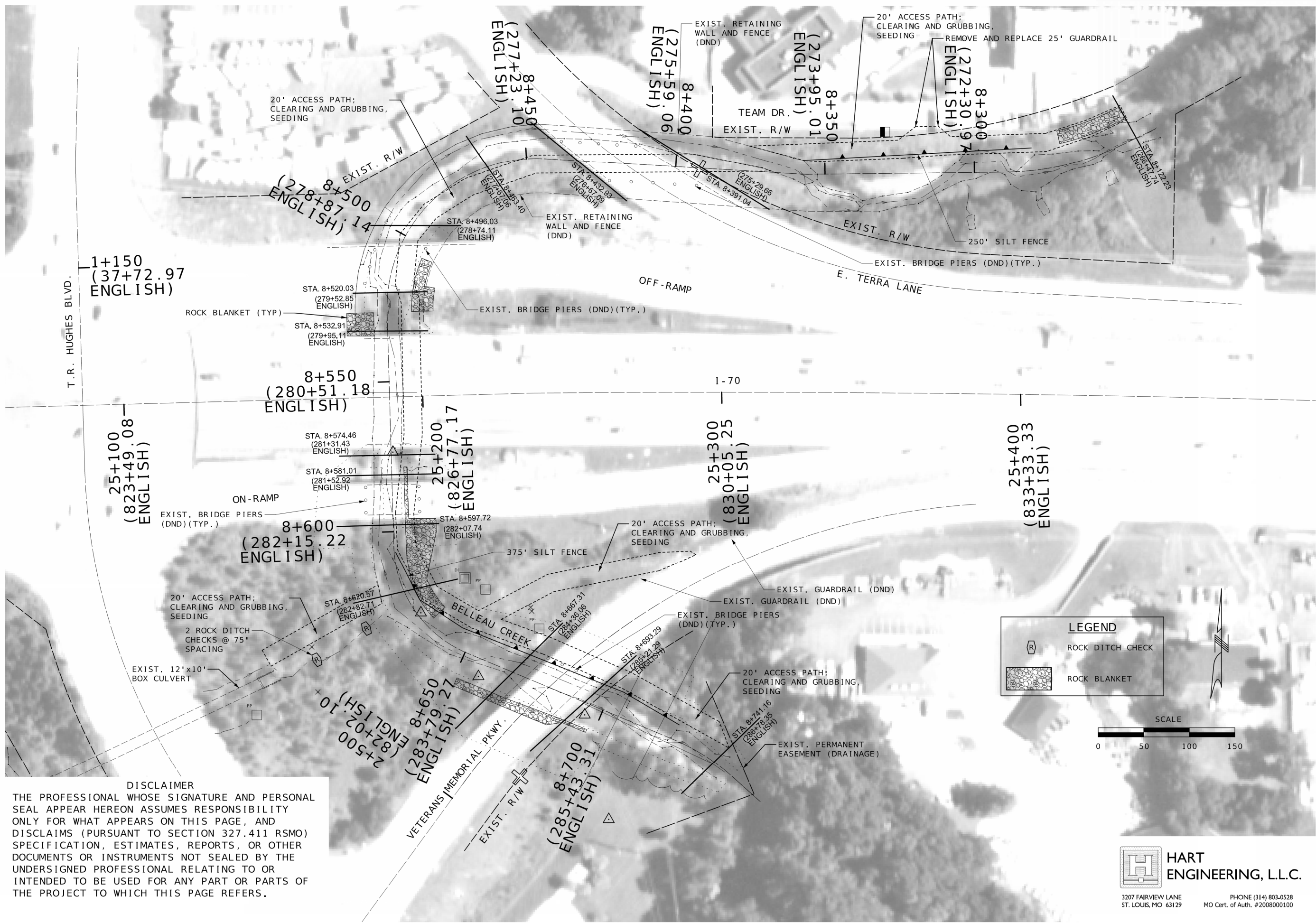
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COMMISSION



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CULVERT MAINTENANCE
I-70 AT T.R. HUGHES BLVD.

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ROUTE 70/64/370	STATE MO
DISTRICT SL	SHEET NO. 7
COUNTY ST. LOUIS & ST. CHARLES	
JOB NO. JSLM0028	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

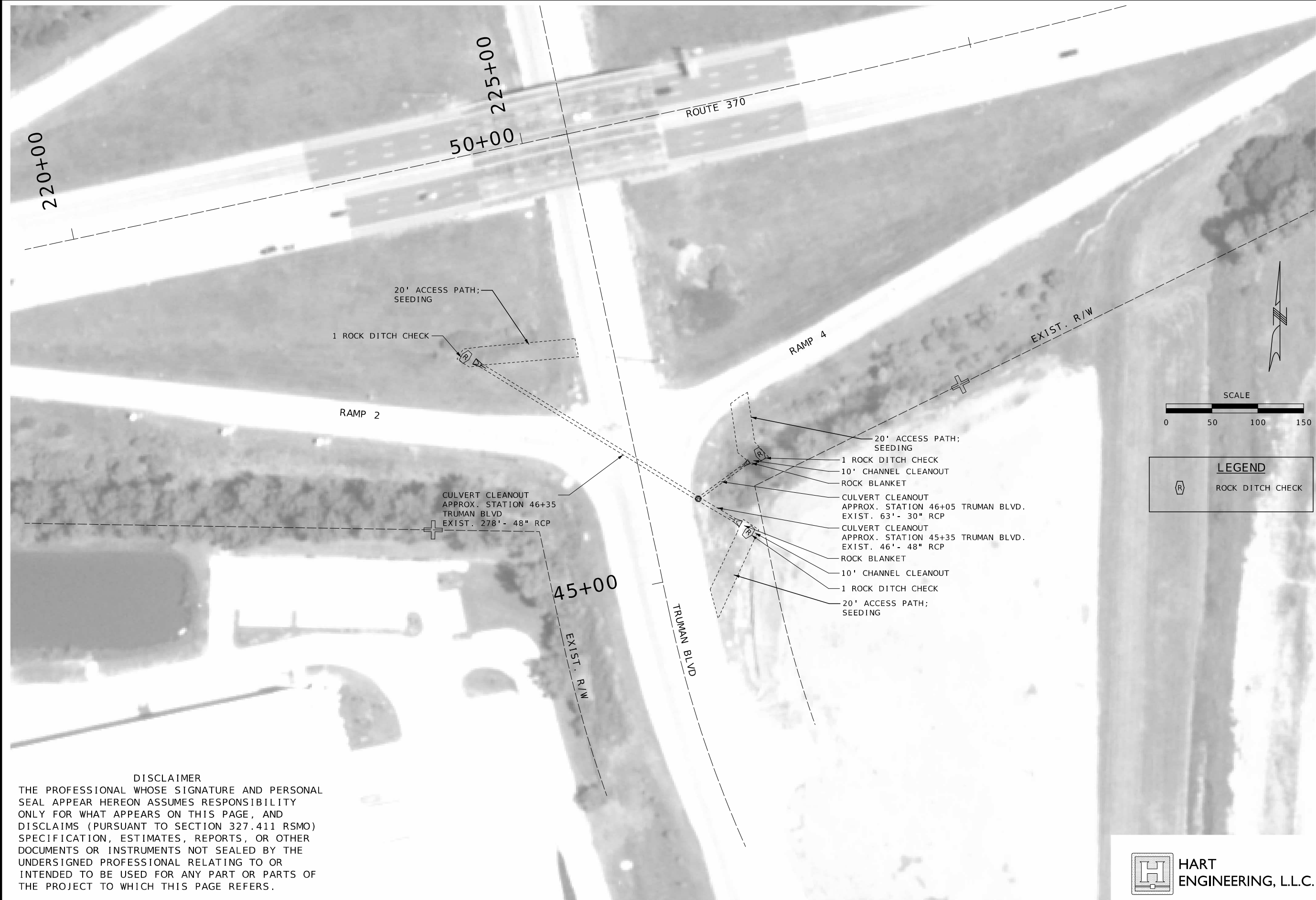
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

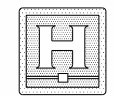
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CULVERT MAINTENANCE

I-70 AT BELLEAU CREEK




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2/6/2024

ROUTE
70/64/370

DISTRICT
SL

STATE
MO

SHEET NO.
8

COUNTY
ST. LOUIS & ST. CHARLES

JOB NO.
JSLM0028


CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

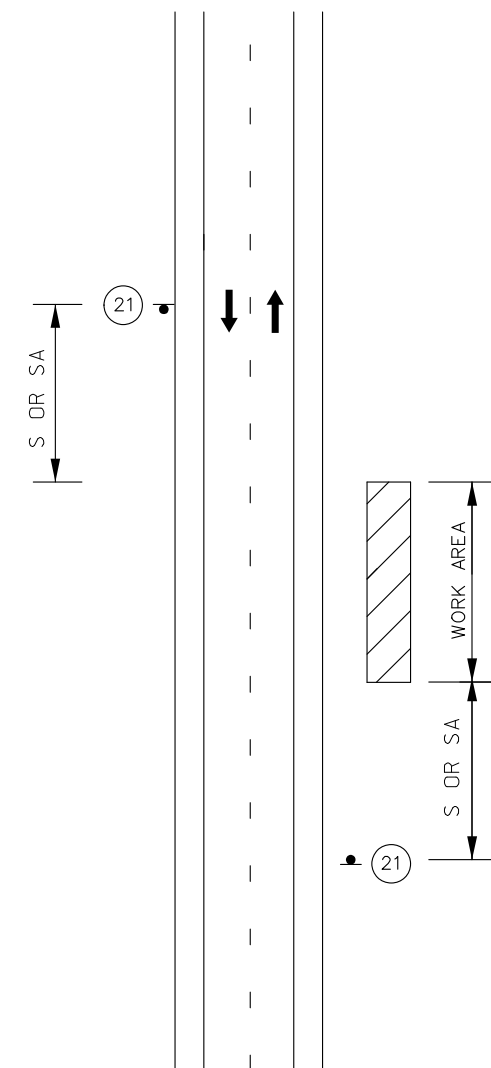
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



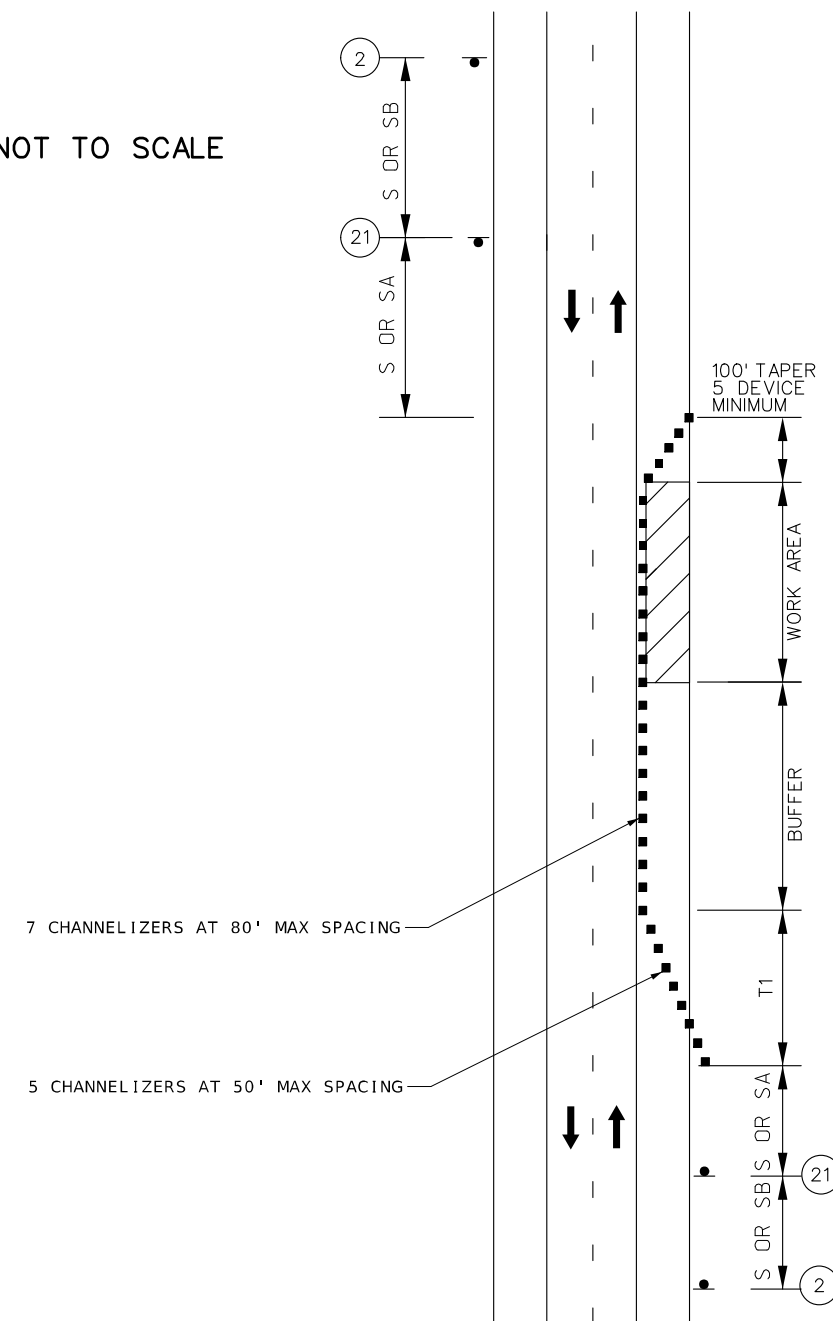
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JEFFERSON CITY, MO 65102
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CULVERT MAINTENANCE
ROUTE 370 AT TRUMAN BLVD.

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



SHOULDER WORK
WORK BEYOND THE SHOULDER
DIVIDED AND UNDIVIDED

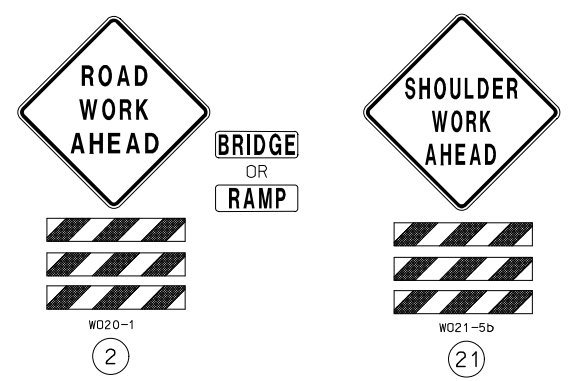


WORK ON THE SHOULDER
ON DIVIDED AND UNDIVIDED
HIGHWAYS

- TRAFFIC CONTROL LEGEND
- ▲ SIGN (SINGLE SIDED)
 - CHANNELIZER (TRIM-LINE)
 - ▨ WORK AREA

NOTES:

- PROVIDE SIGNS ON LEFT AND RIGHT SIDES OF DIVIDED HIGHWAYS.
- ROAD WORK AHEAD SIGN NOT NEEDED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD SIGN IS ALREADY USED.
- SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.
- VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S ROTATING LIGHTS OR STROBE LIGHTS.
- WHEN PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR MORE ARE CLOSED, AT LEAST ONE ADVANCE WARNING SIGN SHALL BE USED. IN ADDITION, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND DIRECT VEHICULAR TRAFFIC TO REMAIN WITHIN THE TRAVELED WAY.
- SEE TRAFFIC CONTROL SHEET 8 OF 8 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.



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NOTES:

- ONLY APPLICABLE WHEN WORK IS WITHIN THE CLEAR ZONE.
- ON MULTI-LANE, DIVIDED HIGHWAYS, SIGNS ADVISING OF THE SHOULDER WORK OR THE CONDITION OF THE SHOULDER SHOULD BE PLACED ONLY ON THE SIDE OF THE AFFECTED SHOULDER.
- VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

SHOULDER WORK
TEMPORARY
TRAFFIC CONTROL
SHEET 1 OF 8

**HART
ENGINEERING, L.L.C.**

3207 FAIRVIEW LANE
ST. LOUIS, MO 63129

PHONE (314) 803-0528
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STATE OF MISSOURI
PAULAM
HART
NUMBER
2008022109
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN
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DATE PREPARED
2/6/2024

ROUTE
70/64/370

DISTRICT
SL

STATE
MO

SHEET NO.
9

COUNTY
ST. LOUIS & ST. CHARLES

JOB NO.
JSLM0028

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

MoDOT

CULVERT MAINTENANCE
TRAFFIC CONTROL

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DATE PREPARED 2/6/2024	
ROUTE 70/64/370	STATE MO
DISTRICT SL	SHEET NO. 11
COUNTY ST. LOUIS & ST. CHARLES	
JOB NO. JSLM0028	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

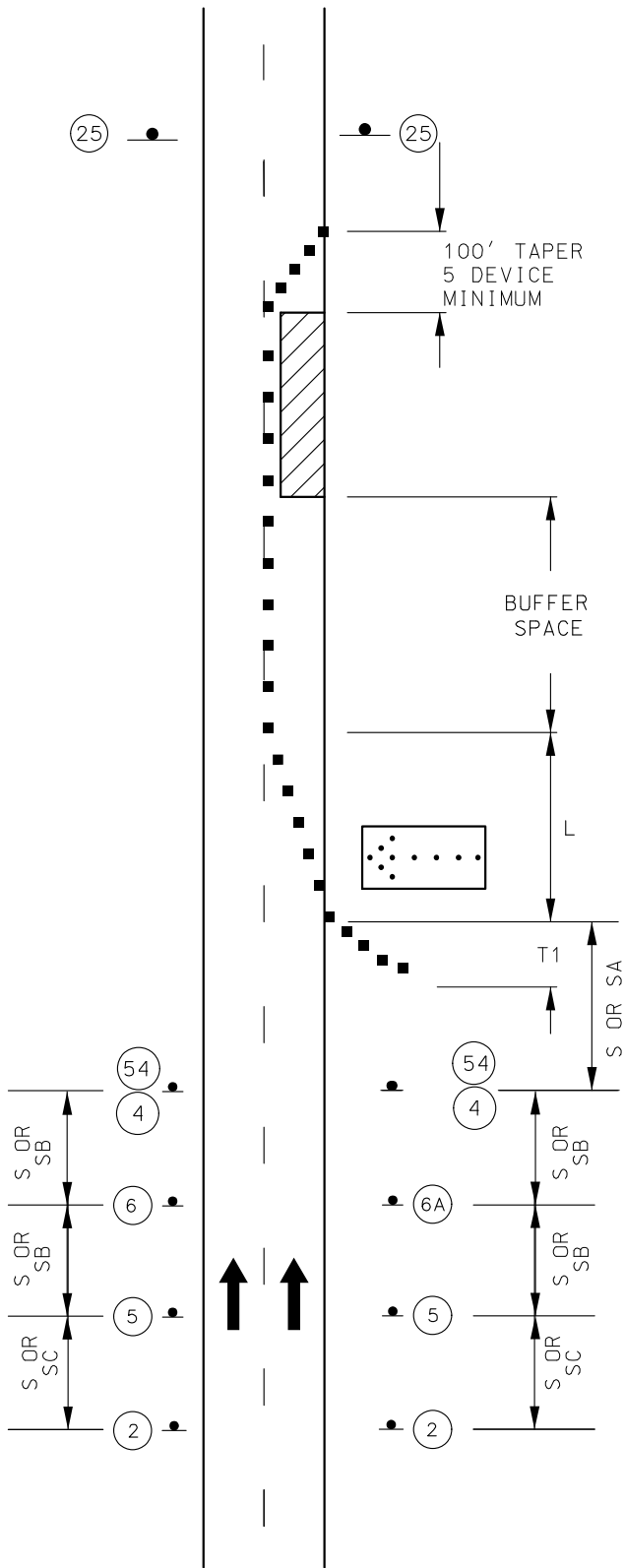
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CULVERT MAINTENANCE
TRAFFIC CONTROL

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



TWO-LANE DIVIDED HIGHWAY

BRIDGE
OR
RAMP
W025-6

ROAD
WORK
AHEAD
W020-1
(2)

CENTER
LANE
CLOSED
AHEAD
W020-5
(5)

LEFT
OR
RIGHT

RIGHT
LANE
CLOSED
W020-6a
(6)

CENTER
OR
LEFT

MERGE
W04-1a
(6A)

SPEED
LIMIT
XX
R2-1
(4)

SPEED
LIMIT
XX
R2-1
NORMAL SPEED
(25)

WORK
ZONE
G020-5aP
(54)

FLASHING
ARROW PANEL

CHANNELIZERS

FOR FLAGS AND ADVANCE
WARNING RAIL SYSTEMS,
REFER TO EPG 616.6.2.2
FLAGS AND ADVANCED
WARNING RAIL SYSTEM

NOTES:

SEE TRAFFIC CONTROL SHEET 8 OF 8 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY. IN THIS CASE, THE LEFT LANE CLOSED SIGNS AND THE CORRESPONDING MERGE OR LANE ENDS SIGN SHALL BE SUBSTITUTED.

WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TTC ZONE ADDITIONAL TTC DEVICES SHALL BE PLACED AS NEEDED.

TEMPORARY TRAFFIC BARRIERS, IF USED SHALL COMPLY WITH THE PROVISIONS IN EPG 616.6.85 TEMPORARY TRAFFIC BARRIER.

AN ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE FREEWAY LANE IS CLOSED, A SEPARATE ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

REVIEW EPG 616.6.83 WARNING LIGHTS WHEN SEQUENTIAL OR WARNING LIGHTS SHOULD BE USED ON NIGHTTIME OPERATIONS.

IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.

FOR FLAGS AND ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAG AND ADVANCE WARNING RAIL SYSTEM.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES

STATIONARY
LANE CLOSURE
ON DIVIDED HIGHWAY
TEMPORARY
TRAFFIC CONTROL
SHEET 3 OF 8



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PHONE (314) 803-0528
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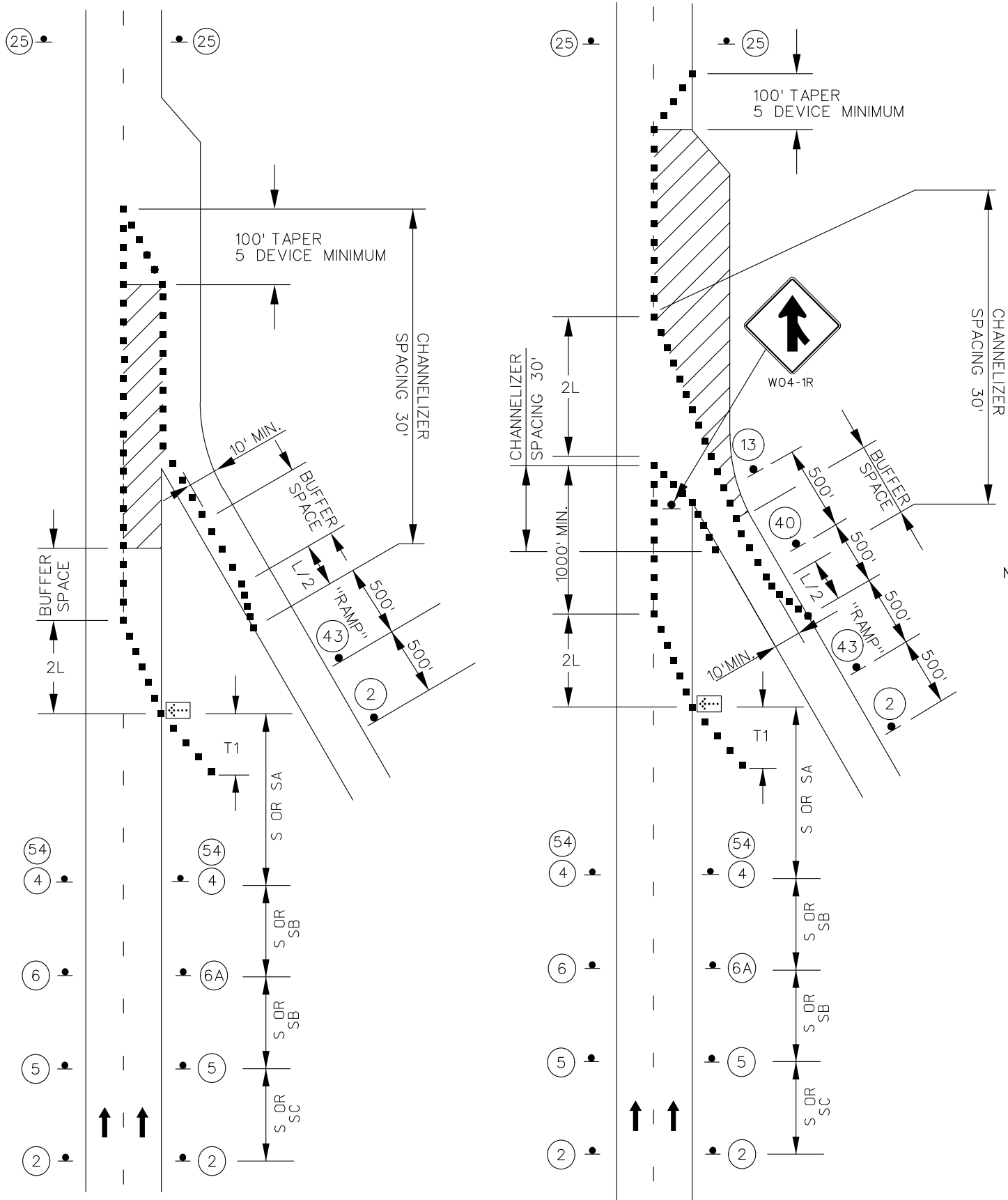


Diagram showing various traffic control signs and their specifications:

- ROAD WORK AHEAD** (W020-1) (2)
- RIGHT LANE CLOSED AHEAD** (W020-5) (5)
- RIGHT LANE CLOSED** (W020-6a) (6)
- MERGE** (W04-1a) (6A)
- BRIDGE OR RAMP** (W020-5aP) (54)
- CENTER LANE OR LEFT LANE** (W020-6a) (6)
- CENTER OR LEFT** (W020-6a) (6)
- YIELD** (R1-2) (13)
- ROAD NARROWS** (W05-1) (43)
- SPEED LIMIT XX** (R2-1) (4)
- SPEED LIMIT XX** (R2-1) (25)
- WORK ZONE** (G020-5aP) (54)
- FLASHING ARROW PANEL** (W03-2) (40)
- CHANNELIZERS** (G020-5aP) (54)

FOR FLAGS AND ADVANCE WARNING RAIL SYSTEMS, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCED WARNING RAIL SYSTEM

NOTES:

SEE TRAFFIC CONTROL SHEET 8 OF 8 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.

FOR NIGHT TIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND AND GUIDELINES FOR THE DEVICE.

RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED.

YEILD SIGN SHOULD BE PLACED ON THE RAMP TO PROVIDE ADEQUATE VISIBILITY OF MAINLINE TRAFFIC. WHERE INADEQUATE ACCELERATION DISTANCE EXISTS FOR THE TEMPORARY ENTRANCE, THE YIELD SIGN SHALL BE REPLACED WITH STOP SIGNS (ONE EACH SIDE OF THE APPROACH).

THE LOCATION OF THE SIGN SEQUENCE AND MERGE TAPER SHOULD BE ADJUSTED SO THAT THE ARROW PANEL LOCATION IS NOT CONFUSING TO MOTORISTS ON THE RAMP.

THE YEILD SIGN SHOULD BE PLACED ON THE RAMP TO PROVIDE ADEQUATE VISIBILITY OF MAINLINE TRAFFIC.

FOR WORK ZONES WHERE DEVICES ARE IN PLACE OVER NIGHT, UAW TRIM-LINE CHANNELIZERS.

WORK IN VICINITY
OF ENTRANCE RAMP
TEMPORARY
TRAFFIC CONTROL
SHEET 5 OF 8

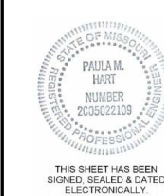


**HART
ENGINEERING, L.L.C.**

3207 FAIRVIEW LANE
ST. LOUIS, MO 63129

PHONE (314) 803-0528
MO Cert. of Auth. #2008000100

NOT TO SCALE



DATE PREPARED
2/6/2024

ROUTE
70/64/370

STATE
MO

DISTRICT
SL

SHEET NO.
13

COUNTY
ST. LOUIS & ST. CHARLES

JOB NO.
JSLM0028

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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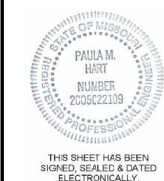
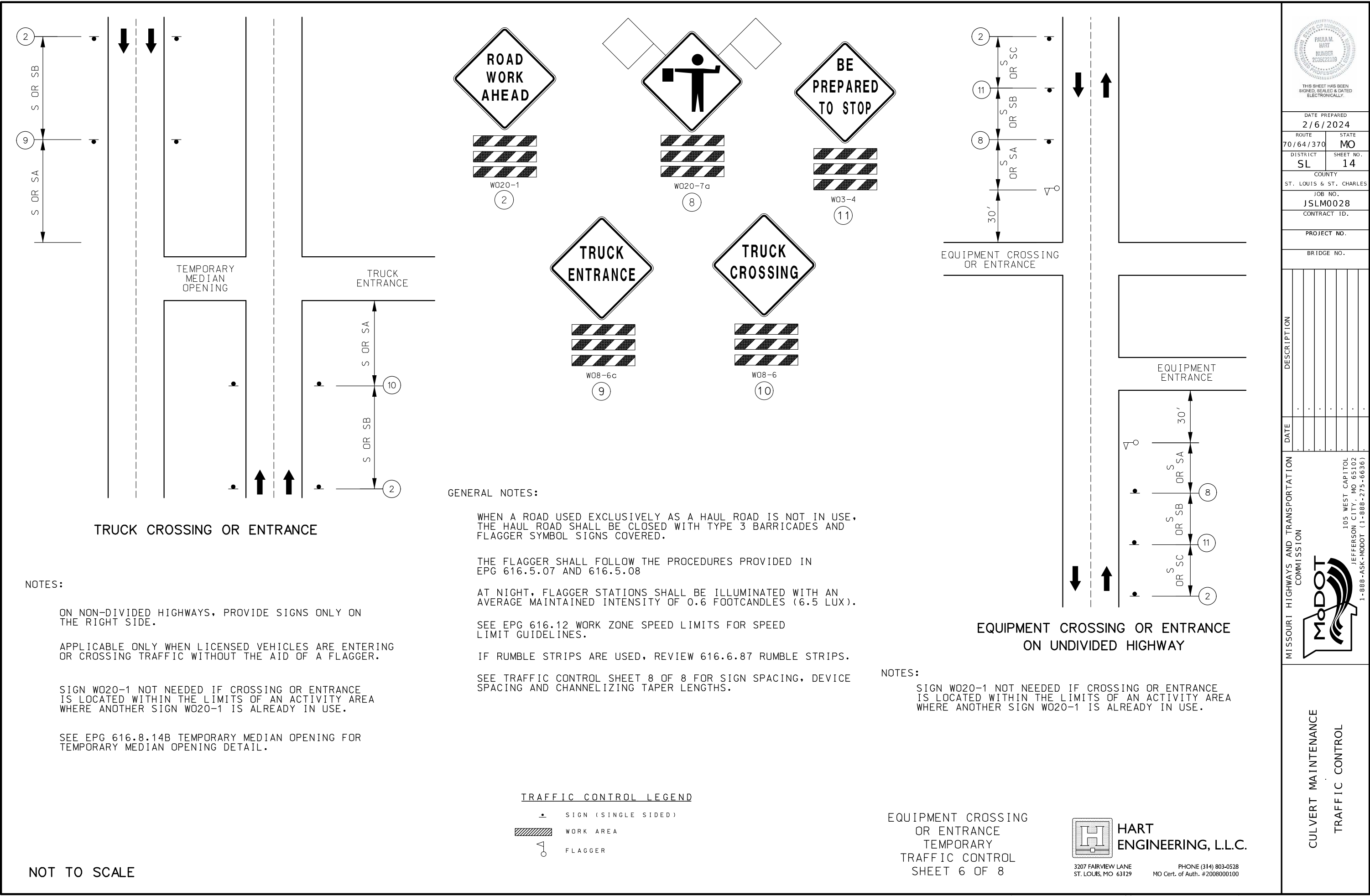
DATE

DATE

DATE

DATE


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



DATE PREPARED 2/6/2024	
ROUTE 70/64/370	STATE MO
DISTRICT SL	SHEET NO. 14
COUNTY ST. LOUIS & ST. CHARLES	
JOB NO. JSLM0028	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)


CULVERT MAINTENANCE

TRAFFIC CONTROL

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.)	
	Undivided (S)	Divided (S)	Shoulder ¹ (T1)	Lane ² (T2)		Tapers	Buffer/ Work Areas
0-35	200	200	70	-	250	15	25
40-45	350	500	150	-	360	20	50
50-55	500	1000	185	-	495	50	100
60-70	SA - 1000, SB - 1500 and SC-2640		235	-	730	60	100

1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper based on 12 ft. (standard lane width) offset

• Channelizer

 Sign

 Work Space

 Type 3 Barricade

 Longitudinal Channelizing Device

 (Advanced Warning Rail System)
For Long Term Operations

When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with features present in the existing pedestrian facility.

Where sidewalks exist, provisions should be made for disabled persons.

Where high speeds are anticipated, a temporary traffic barrier and, if necessary, a crash cushion should be used to separate the temporary sidewalks from traffic.

Only the temporary traffic control devices related to pedestrians are shown. Other devices may be necessary to control traffic.

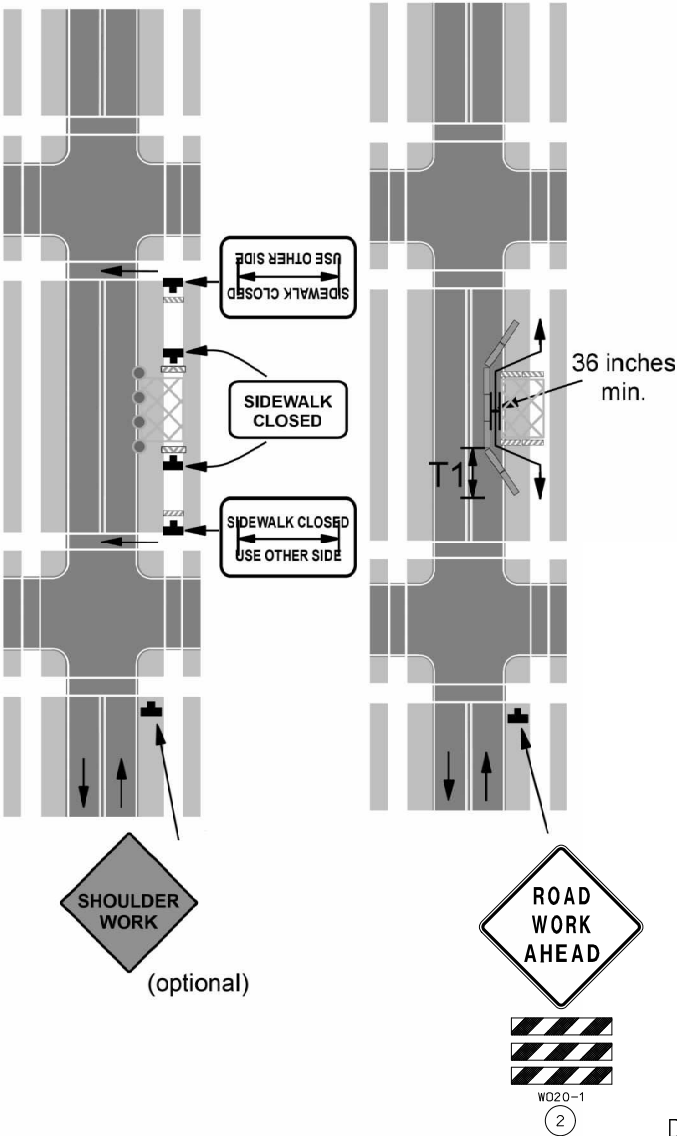
Signs may be mounted on portable mounts at 1 ft. provided they do not interfere with pedestrian movement or be obstructed by parking. Otherwise, signs shall be mounted at 7 ft.

For high speed facilities, channelizer spacing may be reduced to 1/2 spacing noted in table.


Other appropriate signs may be used in lieu of the SHOULDER WORK AHEAD or ROAD WORK AHEAD signs.

Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.

For long-term operations, refer to EPG 616.6.2.2 Flags and Advance Warning Rail System.



SIDEWALK DETOUR OR
DIVERSION MAINTENANCE
TEMPORARY
TRAFFIC CONTROL
SHEET 7 OF 8




HART
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MO Cert. of Auth. #2008000100

NOT TO SCALE



PAULA M.
HART
NUMBER
263822109
PROFESSIONAL ENGINEER
MISSOURI

THIS SHEET HAS BEEN
SIGNED, SEALED & DATED
ELECTRONICALLY.

DATE PREPARED
2/6/2024

ROUTE
70/64/370

STATE
MO

DISTRICT
SL

SHEET NO.
15

COUNTY
ST. LOUIS & ST. CHARLES

JOB NO.
JSLM0028

CONTRACT ID.


PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CULVERT MAINTENANCE
TRAFFIC CONTROL

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

