

Missouri Department of Transportation

1711 Highway 61 S  
Hannibal, Missouri 63401  
573.248.2490  
Fax: 573.248.2467  
1.888.ASK MODOT (275.6636)

## TRANSPORTATION MANAGEMENT PLAN

### MoDOT Projects:

**J2P3082** – Replacement of Bridge K-487 over Noix Creek on Route 79 in Pike County, 1.1 Miles North of Route D in Louisiana (See attached Location Sketch)

**J2P3086** – Replacement of Bridge K-313 over Buffalo Creek on Route 79 in Pike County, 0.6 Miles South of Route D near Louisiana (See attached Location Sketch)

### Project Description:

The replacement of these bridges will require a temporary closure of Route 79. The closure may occur anytime during the period of the contract (J2P3082 – 5/9/2017 to 10/1/2017 and J2P3086 – 5/9/2017 to 11/1/2017). The temporary closure of Route 79 is limited to 80 calendar days per bridge and three closure options are allowed within the contract.

- Independent Closure – The contractor shall not close the bridges on Route 79 concurrently. The contractor shall close Route 79 at Noix Creek (J2P3082) and have Route 79 open to traffic at this location prior to closing Route 79 at Buffalo Creek (J2P3086), or vice versa. Detour signing for J2P3082 will be provided over Routes 54, 61, and D. Detour signing for J2P3086 will be provided over Routes 79, D, and N.
- Staggered Closure – The contractor shall close Route 79 at Noix Creek (J2P3082) and install detour signing over Routes 54, 61, and D. The contractor shall supply an anticipated number of calendar days between the closure at Noix Creek and the concurrent closure of Route 79 at Buffalo Creek (J2P3086). Prior to concurrent closure of the bridges, the detour signing will be adjusted to Routes 54, 61, D, and N. Upon opening Route 79 to traffic at Noix Creek, the detour signing will be adjusted to Routes 79, D, and N. This scenario is for closing Route 79 at Noix Creek first; however, the contractor may reverse the sequence to close Buffalo Creek first.
- Concurrent Closure – The contractor shall close Route 79 at both Noix and Buffalo Creek bridge locations, concurrently. Detour signing will be provided over Routes 54, 61, D, and N. The concurrent closure will be limited to 80 calendar days.



The contractor shall notify the MoDOT Resident Engineer which closure option is chosen a minimum of four weeks prior to the anticipated Route 79 closure date. There are no weight or height restrictions along the detour routes for these bridges. Attached are the Traffic Control Plans for each project depicting the detour signage and necessary traffic control devices.

In addition to the Route 79 closure and detour signing, the contractor may elect to perform miscellaneous work utilizing a one-lane flagging operation. Miscellaneous work items may include seeding and permanent striping. These items may occur outside the 80 calendar day closure; however, the roadway and bridge shall contain appropriate safety devices to ensure a safe travelway for public use. The contractor shall seek approval from the Resident Engineer to perform operations under a one-lane flagging operation and shall supply the necessary traffic control devices at no direct pay. Proper advance notification and sign spacing for the flagging operation shall be in accordance with the existing speed limit, which is 35 mph for Noix Creek (J2P3082) and 60 mph for Buffalo Creek (J2P3086).

In lieu of providing Changeable Message Boards for advance notice of the bridge closures, the Northeast District's innovative static signs displaying the closure date will be utilized. These signs were utilized on six bridge projects in 2016 and were successful. The signs effectively stated the same messages as a Changeable Message Board, but at 1/10<sup>th</sup> the cost. The signs are shown on the attached Traffic Control Plans and are originally placed near the bridge, two weeks prior to the closure. While the signs are located near the bridge, plaques are used to state the Month and Date of the closure. The signs will state "BRIDGE CLOSED ON MONTH DATE." After the bridge closes the signs are relocated to specific intersections and the plaques are removed to state the distance to the bridge closure, "BRIDGE CLOSED 1 MILE AHEAD." In addition to this message, the Route 79 route designation marker is also displayed on the sign. The signs are work zone orange with black lettering and 4'X8' in size.

To further emphasize the 80 calendar day closure per bridge, plus the need to have the Noix Creek Bridge (J2P3082) completed by October 1, 2017, Liquidated Damages Specified in the amount of \$5,000 per calendar day have been included in the contract. The Liquidated Damages Specified will be assessed in addition to the Contract Liquidated Damages of \$2,300 per calendar day for J2P3082 and \$1,800 per calendar day for J2P3086. Additional administration costs of \$500 per calendar day will also be applied to each bridge. Attached is the contract language for the Liquidated Damages Specified.

#### **Public Communications Plan:**

Since multiple bridge replacements requiring roadway closure have been planned along the Route 79 corridor in Pike and Lincoln Counties, community outreach has been occurring since 2014. Multiple meetings with elected officials and communities

along the corridor have occurred. In addition, this information has been shared at various public meetings for the Environmental Assessment for the replacement of the Route 54 Mississippi River Bridge (Champ Clark) in Louisiana. Attached is the Route 79 Bridge Replacement Corridor Map shared at various meetings.

Specifically pertaining to the Noix and Buffalo Creek bridges, J2P3082 and J2P3086, a meeting was held on August 3, 2016 with local business owners and elected officials to discuss the project schedule and roadway closure impacts. As a result of the meeting, MoDOT agreed the impact to the various businesses located between the two bridges warranted strict closure enforcement. Therefore, MoDOT has agreed to limit the closure of Route 79 to 80 calendar days at each bridge location. As mentioned above, various contract language has been supplied to enforce this measure.

Other area outreach included contacting the Louisiana R-II School District. Specifically at the Noix Creek Bridge, J2P3082, the school and area residents are familiar with detouring related to roadway flooding from the Mississippi River and Noix Creek. The school and other entities have a detouring procedure for flooding, which will be utilized during the construction closures.

Future communication efforts include newspaper articles related to the upcoming closure and contract award, plus an Informational Public Meeting. Once the contractor is selected and provides the four week notice for the type of roadway closure and anticipated closure date, the Informational Meeting date will be set and advertised. The meeting is anticipated to occur in early May 2017. In correlation with the Informational Meeting, informational handouts will be created and distributed to the local businesses located between the two bridges. Daily commuting for numerous employees of the Dyno Nobel facility located near the intersection of Route 79 and D will be impacted; therefore, a MoDOT representative may be available at the facility prior to the Informational Meeting.

In addition, MoDOT provides general work zone information to the public through various outlets. These include, among other things, publication of a statewide work zone map and work zone driving safety tips, posting of current work zone locations and conditions to the internet, promotion of Work Zone Safety Awareness Week, and advertisement of work zone safety-related messages via radio, television, and billboards. Through these efforts, MoDOT positively influences work zone safety and mobility, as motorists gain access to the information they need to plan their trips and become more work zone conscious.

**MoDOT Contact List:**

Resident Engineer:

Marty Lincoln, P.E.            573-221-2441  
573-406-2801 (Cell)

Area Engineer:

Brian Haeffner, P.E.            660-349-0892

Transportation Project Manager:

Kim Trainor, P.E.            573-248-2576

Construction & Materials Engineer:

Macy Rodenbaugh, P.E.    573-248-2458  
573-406-7079 (Cell)

Structural Liaison Engineer:

Mike Harms, P.E.            573-751-5126

Traffic:

Rob Frese, P.E.            573-248-9229

Maintenance:

Noix Creek (J2P3082)  
Bowling Green Facility    573-324-5271  
Roy Neimeyer            573-231-2598 (Cell)

Buffalo Creek (J2P3086)  
Elsberry Facility            573-898-2580  
Shannon Thompson       636-290-6076 (Cell)

Risk Management:

Shari Dye            660-385-8258  
660-651-0588 (Cell)  
David Taylor        660-385-8254  
660-346-8370 (Cell)

**Emergency Contacts:**

**MAIN EMERGENCY CONTACT NUMBER – 911**

In addition to the 911 emergency telephone number for ambulance, fire or police services, the following agencies may also be notified for accident or emergency situation within the project limits.

Missouri Highway Patrol Troop C – 636-300-2800
City of Louisiana Police – 573-754-4021
Louisiana Fire Department – 573-754-5100
Buffalo Township Fire Department – 573-754-2400
Pike County Sheriff – 573-324-3202

**J2P3082  
PIKE 79**

**MISSOURI**

**LOUISIANA**

**ILLINOIS**

**REPLACE BRIDGE K0487  
OVER NOIX CREEK**

BURLINGTON NORTHERN SANTA FE RR

KANSAS CITY SOUTHERN RR



79

54

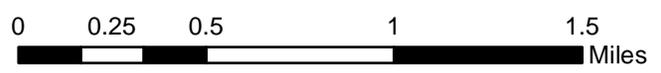
54

79

79

D

**Project Location**



**J2P3086  
PIKE 79**

**MISSOURI**

**ILLINOIS**

**LOUISIANA**

**REPLACE BRIDGE K0313  
OVER BUFFALO CREEK**

79

54

54

79

79

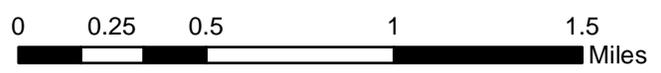
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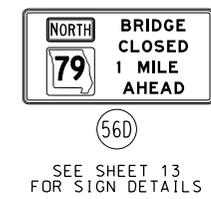
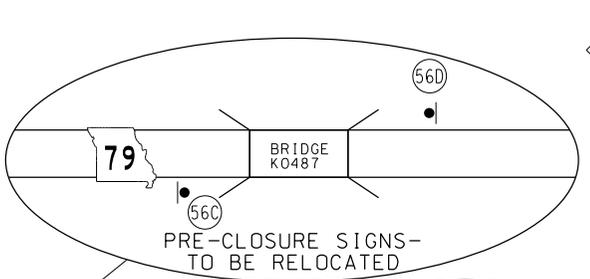
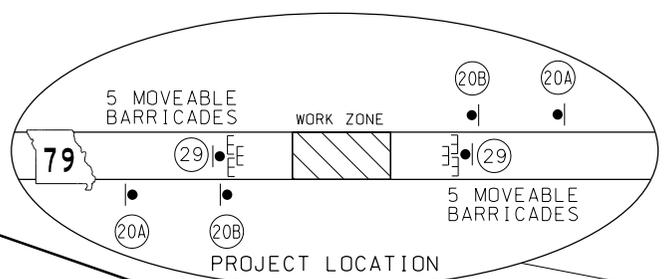
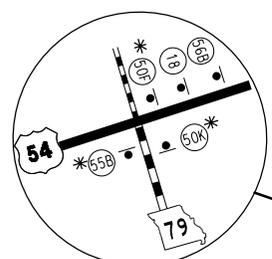
BURLINGTON NORTHERN SANTA FE RR

KANSAS CITY SOUTHERN RR



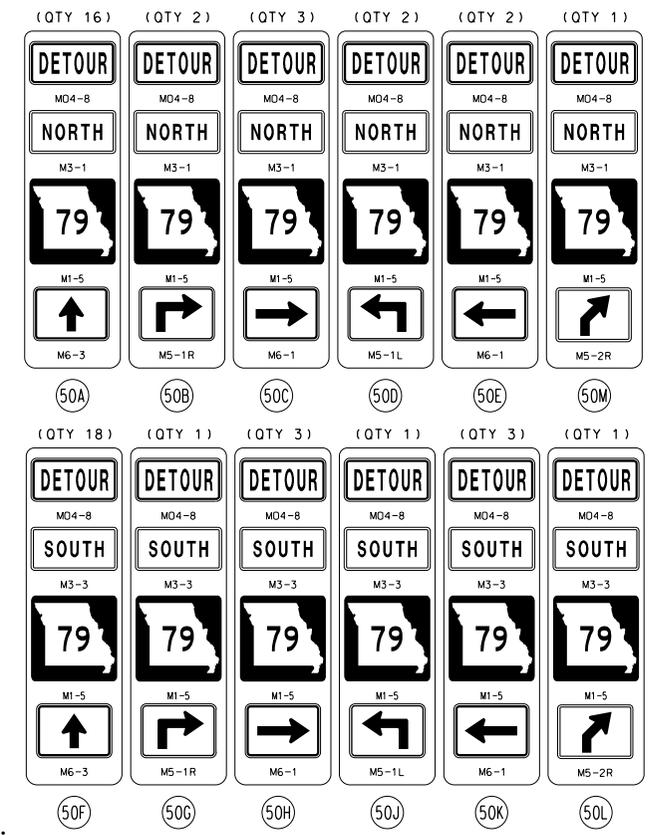
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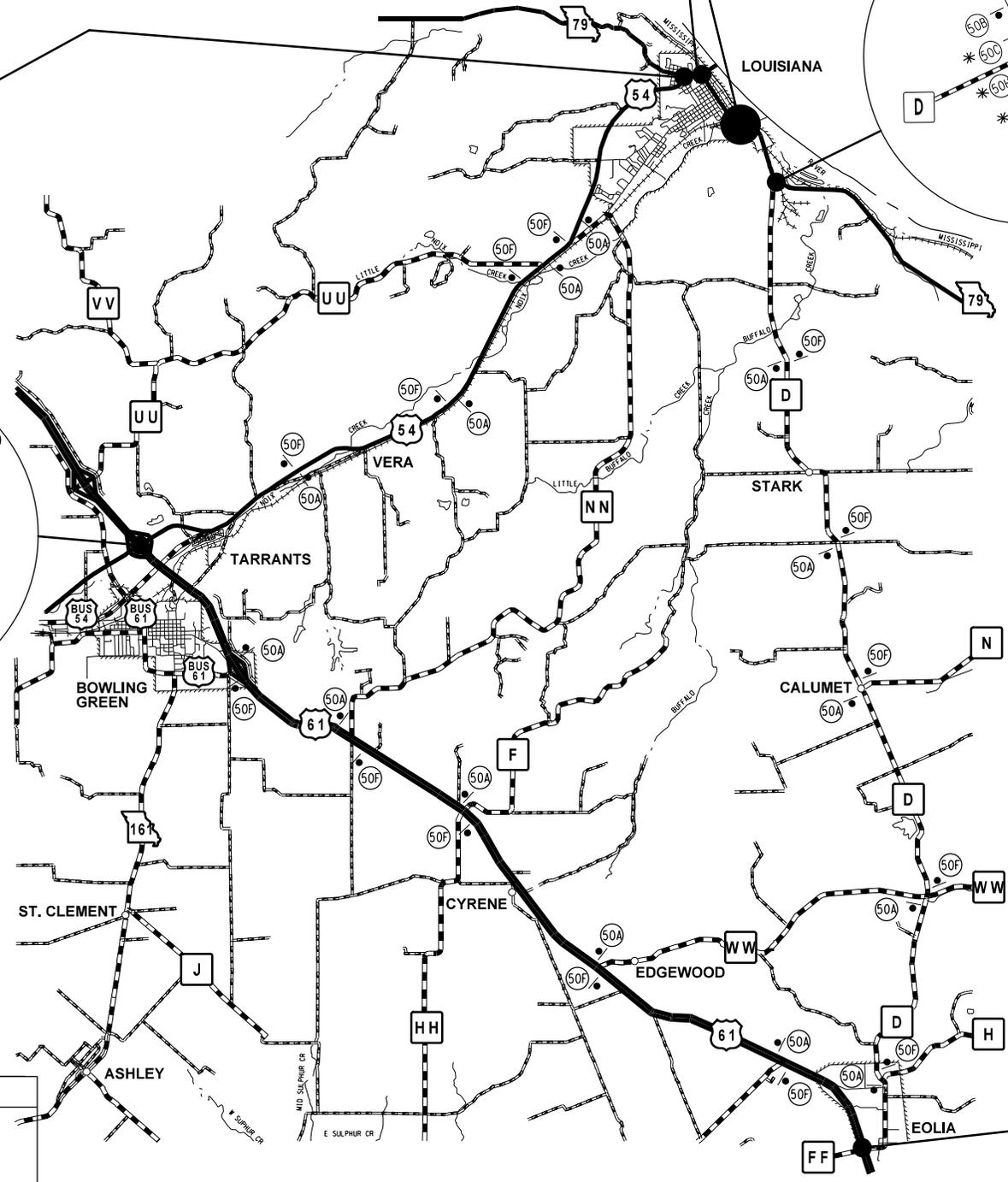
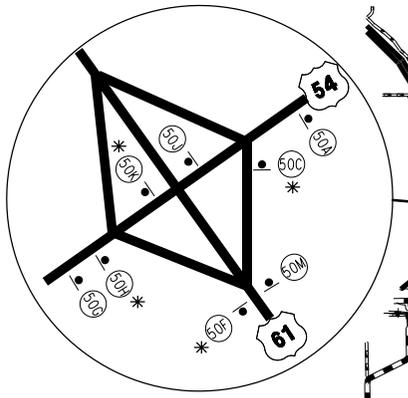
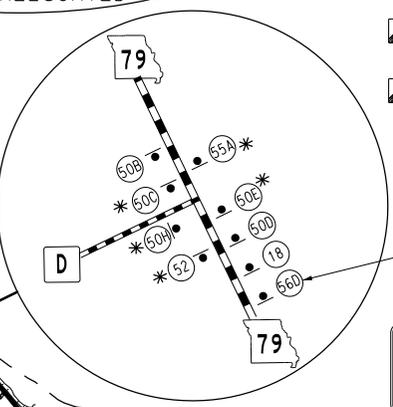
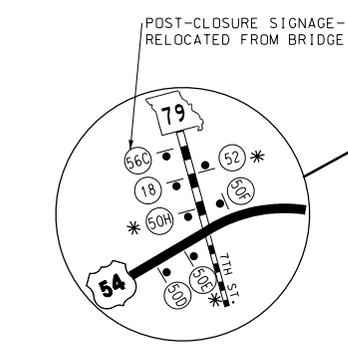


**New Bridge**  
**Fall 2017**

Completed as Promised  
 CONST-5P-96  
 TO BE LOCATED AS DIRECTED BY ENGINEER  
 LEAVE IN PLACE DURATION OF PROJECT  
 SEE SHEET 13 FOR SIGN DETAILS



NOTES:  
 INSTALL PRE-CLOSURE SIGNS 56B & 56D WITH PLAQUES A MINIMUM OF 2 WEEKS PRIOR TO CLOSURE.  
 WHEN BRIDGE CLOSURE OCCURS- REMOVE SPECIAL SIGN PLAQUES AND RELOCATE NOTED SIGNS.  
 SEE TRAFFIC CONTROL SHEET 4 OF 4 FOR SPECIAL SIGN AND PLAQUE DETAILS.  
 ALL SIGNS SHALL BE SPACED AT 500 FEET UNLESS OTHERWISE NOTED.  
 \* LOCATE SIGNS 100' FROM INTERSECTION.  
 USE IN PLACE ALL SIGNS WHICH DO NOT CONFLICT WITH THIS PLAN. COVER OR REMOVE CONFLICTING SIGNS.  
 CMS BOARD SHALL BE INSTALLED 2 WEEKS PRIOR TO ROAD CLOSURE. TO BE LOCATED AS DIRECTED BY ENGINEER.  
 CONSTRUCTION OF ASHLEY STREET SHALL BE STAGED IN A MANNER TO MAINTAIN ACCESS AT ALL TIMES.



**TRAFFIC CONTROL LEGEND**

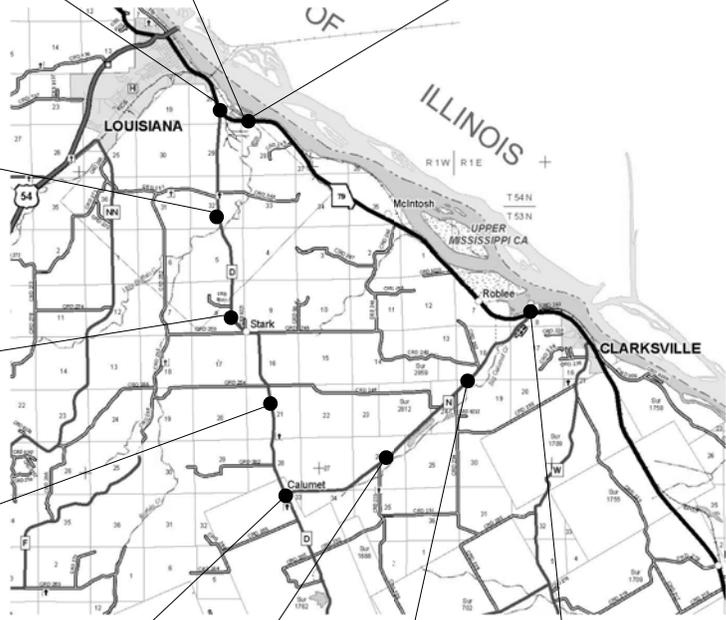
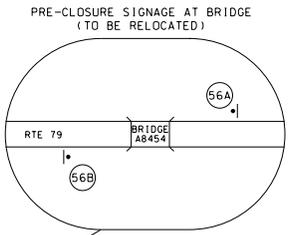
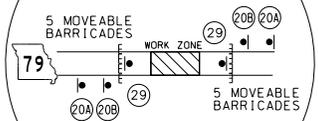
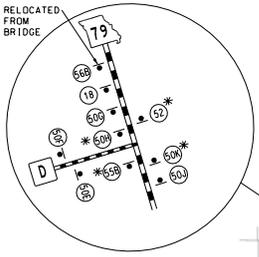
- SIGN (SINGLE SIDED)
- FLAG ASSEMBLY
- TYPE III MOVEABLE BARRICADE
- ADVANCE WARNING RAIL SYSTEM (AWRS)
- CHANNELIZER (TRIM LINE)



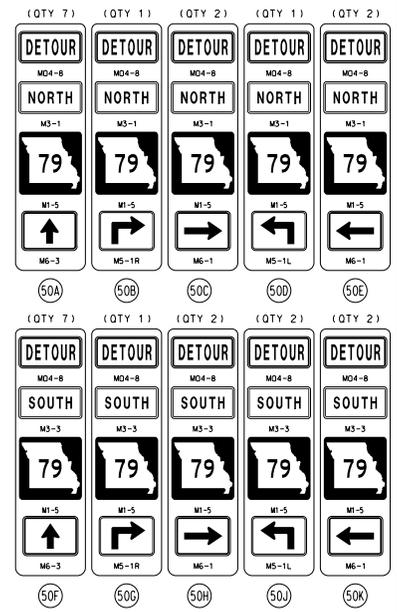
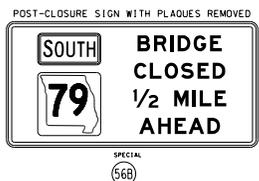
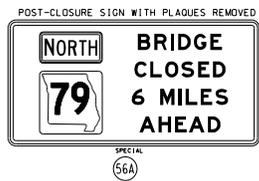
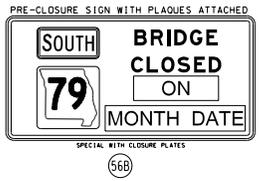
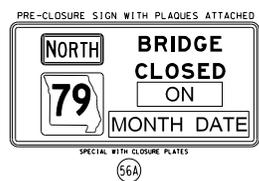
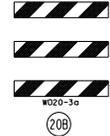
**DURATION OF PROJECT TRAFFIC DETOUR**

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."  
 DATE PREPARED: 1/5/2017  
 ROUTE: 79 STATE: MO  
 DISTRICT: NE SHEET NO.: 10  
 COUNTY: PIKE  
 JOB NO.: J3P3082  
 CONTRACT ID.:  
 PROJECT NO.:  
 BRIDGE NO.:  
 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 105 WEST CAPITOL JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)  
 TRAFFIC CONTROL DURATION OF PROJECT TRAFFIC DETOUR SHEET 1 OF 4





DURATION OF PROJECT



**New Bridge**  
 Fall 2017

Completed as Promised  
 CONST-59-96  
 LEAVE IN PLACE  
 DURATION OF PROJECT  
 TO BE LOCATED AS  
 DIRECTED BY ENGINEER

NOTES:  
 INSTALL PRE-CLOSURE SIGNS WITH PLAQUES 56A & 56B A MINIMUM OF 2 WEEKS PRIOR TO CLOSURE.  
 WHEN BRIDGE CLOSURE OCCURS - REMOVE SPECIAL SIGN PLAQUES AND RELOCATE NOTED SIGNS.  
 SEE TRAFFIC CONTROL SHEET 3 OF 3 FOR SPECIAL SIGN AND PLAQUE DETAILS.  
 ALL SIGNS SHALL BE SPACED AT 500 FEET UNLESS OTHERWISE NOTED.  
 \* LOCATE SIGNS 100' FROM INTERSECTION.  
 USE IN PLACE ALL SIGNS WHICH DO NOT CONFLICT WITH THIS PLAN. COVER OR REMOVE CONFLICTING SIGNS.

TRAFFIC CONTROL LEGEND	
▣	SIGN (SINGLE SIDED)
▣	TYPE III MOVEABLE BARRICADE

TRAFFIC CONTROL DURATION OF PROJECT SHEET 1 OF 1

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

DATE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

PROJECT NO.: \_\_\_\_\_

BRIDGE NO.: \_\_\_\_\_

TRAFFIC CONTROL DURATION OF PROJECT SHEET 1 OF 3

THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

DATE PREPARED: 1/5/2017  
 ROUTE: 79 MO  
 DISTRICT: NE SHEET NO.: 6  
 COUNTY: PIKE  
 JOB NO.: J3P3086  
 CONTRACT ID: \_\_\_\_\_

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





56A



56A



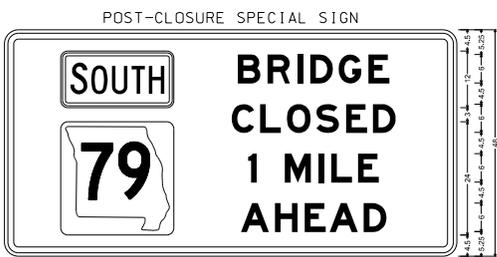
56D



56B



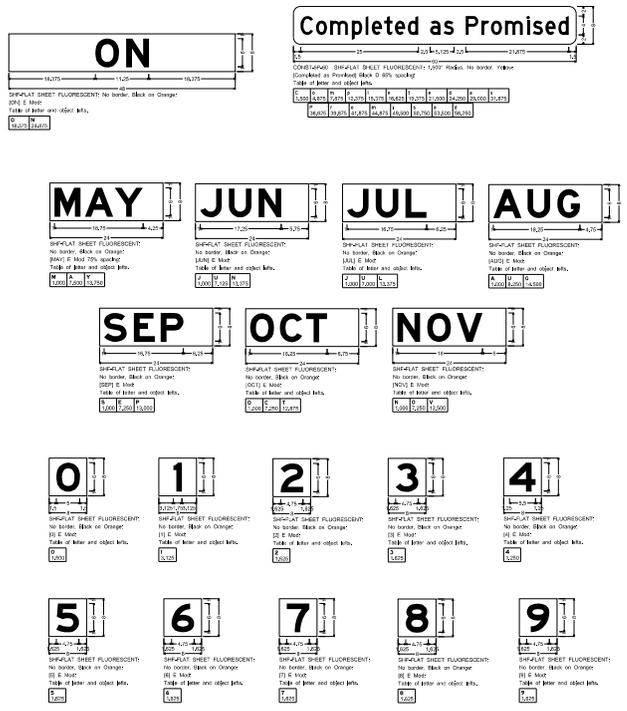
56B



56C



60



NOT TO SCALE

MOA-1346 SHF-FLAT SHEET FLUORESCENT: 3.000" Radius, 1.250" Border, 0.750" Indent, Black on Orange:  
(BRIDGE) E Mod; (CLOSED) E Mod; (6 MILES) E Mod; (AHEAD) E Mod;  
Table of letter and object lifts:

Q	B	R	I	D	G	E
12,000	46,500	55,875	62,125	64,875	70,875	77,250
S	C	L	O	S	E	D
12,000	46,250	54,250	60,000	66,250	72,500	78,250
M	I	L	E	S		
17,250	58,000	65,125	67,875	73,500	78,250	
A	H	E	A	D		
50,125	57,375	63,750	69,000	76,250		

MOA-1346 SHF-FLAT SHEET FLUORESCENT: 3.000" Radius, 1.250" Border, 0.750" Indent, Black on Orange:  
(BRIDGE) E Mod; (CLOSED) E Mod; (1 MILE) E Mod; (AHEAD) E Mod;  
Table of letter and object lifts:

Q	B	R	I	D	G	E
12,000	46,500	55,875	62,125	64,875	70,875	77,250
S	C	L	O	S	E	D
12,000	46,250	54,250	60,000	66,250	72,500	78,250
M	I	L	E	S		
17,250	58,000	65,125	67,875	73,500	78,250	
A	H	E	A	D		
50,125	57,375	63,750	69,000	76,250		

MOA-1346 SHF-FLAT SHEET FLUORESCENT: 3.000" Radius, 1.250" Border, 0.750" Indent, Black on Orange:  
(BRIDGE) E Mod; (CLOSED) E Mod; (1 MILE) E Mod; (AHEAD) E Mod;  
Table of letter and object lifts:

Q	B	R	I	D	G	E
12,000	50,000	56,375	62,750	65,375	71,500	77,750
S	C	L	O	S	E	D
12,000	48,750	54,750	60,500	66,750	73,000	78,750
M	I	L	E	S		
18,250	59,000	71,125	73,875	79,500		
A	H	E	A	D		
50,125	58,000	64,250	69,500	76,750		

MOA-1346 SHF-FLAT SHEET FLUORESCENT: 3.000" Radius, 1.250" Border, 0.750" Indent, Black on Orange:  
(BRIDGE) E Mod; (CLOSED) E Mod; (1 MILE) E Mod; (AHEAD) E Mod;  
Table of letter and object lifts:

Q	B	R	I	D	G	E
12,000	48,500	55,875	62,125	64,875	70,875	77,250
S	C	L	O	S	E	D
12,000	48,250	54,250	59,875	66,125	72,500	78,250
M	I	L	E	S		
17,250	58,000	65,625	68,375	73,000		
A	H	E	A	D		
50,125	57,375	63,750	69,000	76,250		

THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

DATE PREPARED: 1/5/2017  
ROUTE: 79 STATE: MO  
DISTRICT: NE SHEET NO.: 8  
COUNTY: PIKE  
JOB NO.: J2P3086  
CONTRACT TO:  
PROJECT NO.:  
BRIDGE NO.:

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL SPECIAL SIGN AND PLAQUE DETAILS SHEET 3 OF 3

## LIQUIDATED DAMAGES SPECIFIED – J2P3082

**1.0 Description.** If the **closure time** of Route 79 for the construction of Bridge A8453 over Noix Creek and the associated roadway improvements is not open to traffic within **80 Calendar Days** or by **October 1, 2017**, the Commission, the traveling public, and state and local police and governmental authorities will be damaged in various ways, including but not limited to, increased construction administration cost, potential liability, traffic and traffic flow regulation cost, traffic congestion and motorist delay, with its resulting cost to the traveling public.

**1.1 Closure Time** is defined as any day or other unit of time, including Saturdays, Sundays and legal holidays, when all lanes of Route 79 are closed due to the contractor's operations. The only exception to this contingency is one-lane travelway reductions. If the contractor chooses to utilize one-lane traffic conditions, approval must be acquired from the engineer and additional traffic control devices shall be supplied at no direct pay.

**2.0 Liquidated Damages Specified for Failure To Complete Work on Time.** These damages are not reasonably capable of being computed or quantified. Therefore, the contractor will be charged with liquidated damages specified in the amount of **\$5,000** per day for each full day that the necessary contract work, including guardrail and any other items to ensure a safe travelway for public use, is not complete and the roadway is open to traffic in excess of the limitation as specified elsewhere in this special provision. It shall be the responsibility of the engineer to determine the quantity of excess closure time.

**2.1** The said liquidated damages specified will be assessed in addition to any other liquidated damages charged under the Missouri Standard Specifications for Highway Construction, as indicated elsewhere in this contract.

**2.2** This deduction will continue until such time as the necessary work is completed and traffic is restored.

## LIQUIDATED DAMAGES SPECIFIED – J2P3086

**1.0 Description.** If the **closure time** of Route 79 for the construction of Bridge A8454 over Buffalo Creek and the associated roadway improvements is not open to traffic within **80 Calendar Days**, the Commission, the traveling public, and state and local police and governmental authorities will be damaged in various ways, including but not limited to, increased construction administration cost, potential liability, traffic and traffic flow regulation cost, traffic congestion and motorist delay, with its resulting cost to the traveling public.

**1.1 Closure Time** is defined as any day or other unit of time, including Saturdays, Sundays and legal holidays, when all lanes of Route 79 are closed due to the contractor's operations. The only exception to this contingency is one-lane travelway reductions. If the contractor chooses to utilize one-lane traffic conditions, approval must be acquired from the engineer and additional traffic control devices shall be supplied at no direct pay.

**2.0 Liquidated Damages Specified for Failure To Complete Work on Time.** These damages are not reasonably capable of being computed or quantified. Therefore, the contractor will be charged with liquidated damages specified in the amount of **\$5,000** per day for each full day that the necessary contract work, including guardrail and any other items to ensure a safe travelway for public use, is not complete and the roadway is open to traffic in excess of the limitation as specified elsewhere in this special provision. It shall be the responsibility of the engineer to determine the quantity of excess closure time.

**2.1** The said liquidated damages specified will be assessed in addition to any other liquidated damages charged under the Missouri Standard Specifications for Highway Construction, as indicated elsewhere in this contract.

**2.2** This deduction will continue until such time as the necessary work is completed and traffic is restored.

# Missouri Route 79 Corridor Bridge Weight Limits Pike and Lincoln Counties

