

# HIGHWAY BRIDGE SCOUR PLAN OF ACTION REPORT



BRIDGE ID NUMBER: **10SR0670029**  
 BRIDGE OWNER: **STATE OF TENNESSEE**  
 ROAD NAME: **BROAD ST**  
 CROSSING: **DOE RIVER**  
 LATITUDE: **N 36.35177 DEGREES**  
 LONGITUDE: **W 82.21399 DEGREES**

COUNTY: **CARTER**  
 ROUTE: **SR067**  
 SPECIAL CASE: **0**  
 COUNTY SEQUENCE: **1**  
 LOG MILE: **7.10**  
 YEAR BUILT: **1929**

## TYPE OF SUPERSTRUCTURE

MAIN SPAN: **CONCRETE CONTINUOUS - ARCH - DECK**      APPR. SPAN: **NOT APPLICABLE**

## TYPE OF SUBSTRUCTURE

ABUTMENTS: **CONCRETE BOX TYPE ON CONCRETE SPREAD FOOTING FOUNDATION**  
 BENTS: **NOT APPLICABLE**  
 PIERS: **PIER WALL FOR CONCRETE BOX ON CONCRETE SPREAD FOOTING FOUNDATION**

## SCOUR EVALUATION

Bridge is scour critical; field review indicates that extensive scour has occurred at bridge foundations. Immediate action is required to provide scour countermeasures. Rip-rap protection was installed but it has failed and is now ineffective. Major repair or replacement of the protection system is needed.

## INSPECTION PROCEDURES

What Initiated the Call-out Inspection?      ☐ BridgeWatch Alert  
    ☐ TDOT District or Local Maintenance Personnel  
    ☐ THP or Local Law Enforcement Personnel  
    ☐ Other: \_\_\_\_\_

### Things to check on a bridge during floods:

- ☐ - Span movement - horizontally as well as vertically
  - 1. Check displacement / deflection along curb line, both bridge rails and outer edge of bridge deck.
  - 2. Check for plumb of piers or bents.
- ☐ - Check for embankment erosion
- ☐ - Check for drift build-up on piers or bents
- ☐ - Check pier exposure, if possible, and compare to previous inspection
- ☐ - Review the latest bridge inspection report versus current field conditions

### If Closure is recommended:

- ☐ - Stay at bridge with vehicle pulled across road until bridge is secured and properly closed by District, County or City Maintenance Personnel. Use Barricade Tape, traffic cones and/or traffic flares as temporary measures to warn motorists to stay off of the bridge until such time as the bridge may be properly closed and barricaded.
- ☐ - Contact: (1) District Maintenance Supervisor ( if bridge is State maintained )  
 (2) City or County Highway Maintenance Official ( if bridge is not State maintained )  
 (3) Tennessee Highway Patrol and/or local law enforcement Officers as appropriate  
 (4) TDOT Regional Bridge Engineer
- ☐ - The Bridge should remain closed until the water recedes and a daylight visual inspection is made by a TDOT bridge inspection team.

### PUBLICATION DATE

**07-Nov-24**

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- [ ] - The bridge inspection team will work with State District maintenance or local highway maintenance officials in establishing a detour route. Any bridge on the selected detour route shall be checked prior to signing the detour route.
- [ ] - The bridge can be re-opened only after a TDOT bridge inspection team checks the substructure units and they are determined to be structurally stable.

**CONTACT PERSONNEL:****TELEPHONE NUMBER:**

REGION BRIDGE ENGINEER

(865) 712-8292

DISTRICT MAINTENANCE SUPERVISOR

(423) 202-5393

TENNESSEE HIGHWAY PATROL

(423) 348-6144

- [ ] - Summarize and submit findings from the inspection to BridgeWatch scour monitoring system. The report shall include the date and time of the inspection, a brief summary of findings and, as appropriate, photographs of the bridge and stream channel measurements. If significant scouring has occurred, the report shall also be copied to Bridge Inspection Headquarters.

**COMMENTS:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Suggested List of Equipment to conduct the Inspection:**

Latest Bridge Inspection Report

Scour POA Report with the above Checklist

Bridge Design Plans, if available

Tape measure with weight

Plumb bob

Range Pole

A 1000 Foot Roll of yellow Polyethylene Barricade Tape printed with the following message:

**SAFETY HAZARD KEEP AWAY**

A Barricade Tape Dispenser with serrated cutter

A roll of Duct Tape

Traffic Cones - Minimum of four (4)

Traffic Safety Flares - Minimum of four (4) or set of electronic warning flashers

TDOT two-way radio (State Personnel only) and/or cellular telephone

TDOT radio directory (State Personnel only)

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