Rev. 07-24-15

HIGHWAY BRIDGE SCOUR PLAN OF ACTION REPORT

TDOT Department of Transportation

BRIDGE ID NUMBER:	**41SR0500031**	COUNTY:	**HICKMAN**
BRIDGE OWNER:	**STATE OF TENNESSEE**	ROUTE:	**SR050**
ROAD NAME:	**SR50**	SPECIAL CASE:	**0**
CROSSING:	**DUCK RIVER**	COUNTY SEQUENCE:	**1**
LATITUDE::	**N 35.72033 DEGREES**	LOG MILE:	**30.55**
LONGITUDE:	**W 87.26780 DEGREES**	YEAR BUILT:	**1951**

TYPE OF SUPERSTRUCTURE

MAIN SPAN: **STEEL CONTINUOUS - STRINGER/MULTI-BEAM OR GIRDER**

APPR. SPAN: **CONCRETE - TEE BEAM**

TYPE OF SUBSTRUCTURE

ABUTMENTS: **CONCRETE SPILL THROUGH ABUTMENT ON STEEL PILE FOUNDATION**

BENTS: **CONCRETE COLUMN THREE POST BENT ON STEEL PILE FOUNDATION**

PIERS: **CONCRETE SOLID SHAFT PIER ON STEEL PILE FOUNDATION**

SCOUR EVALUATION

Bridge is scour critical; bridge foundations determined to be unstable for calculated scour conditions. No scour countermeasures are installed but they are 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.**

[ ] - 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	(615) 476-8860
DISTRICT MAINTENANCE SUPERVISOR	(931) 205-6399
TENNESSEE HIGHWAY PATROL	(931) 766-1425

[ ] - 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: _____

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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)