Is structure within Scope of the current Inspection Standard *

WLC to determine if an inspection is required

NO

YES

Undertake appropriate inspection

No further action

Identify which type of inspection is required

Consider Health & Safety Before undertaking inspection Defined in Inspection Standard

Principals INSPECTION

General INSPECTION

Acceptance INSPECTION

Special INSPECTION

Underwater INSPECTION

Superficial INSPECTION

In summary, the inspection criteria applies to all Transportation adopted structures and is as follows:-

All structures will be included on the General Inspection Programme

All structures that meet the Scope criteria (see Page 3 for details) will be included on the Principal Inspection Programme

All structures to be adopted shall be included in the Acceptance Inspections process

Other inspections shall be undertaken as and when required by the Structures Manager

* CURRENT INSPECTION STANDARD
DMRB: Volume 3: Section 1: Part 4: BD63/07
Last verified for updates: April 2010 (by GB): Next verification due April 2011

Transportation Structures
PRINCIPAL INSPECTIONS

All Highway structures owned/maintained/adopted by the Transportation-Structures office and that fall within the scope of the Inspection Standard shall be included in the Principal Inspection Programme.

**DEFINED AS A CLOSE EXAMINATION OF ALL INSPECTABLE PARTS OF THE STRUCTURE DEFINED IN INSPECTION STANDARD (SEE NOTES BELOW)**

**BRIDGE CONDITION INDICATOR FORMS SHOULD BE COMPLETED FOR EACH INSPECTION**

**A FULL DETAILED PRINCIPAL INSPECTION REPORT IS TO BE WRITTEN INCLUDING:- Condition Report, Conclusions & Recommendations.**

---

A COPY OF THE REPORT SHOULD BE PLACED IN THE APPROPRIATE FOLDER ON THE STRUCTURES SERVER AND A HARD COPY SHOULD BE PRODUCED AND PLACED IN THE RELEVANT STRUCTURE FILE.

ISSUE ORDERS FOR ANY URGENTLY REQUIRED WORKS IMMEDIATELY

UPDATE STRUCTURES DATABASE & BCI RECORD INCLUDING DEFECTS, WORK REQUIRED, PRIORITIES, COST ESTIMATES etc & Update Principal Inspection dates

**PRINCIPAL INSPECTION NOTES:**

1. Defined as comprising “a close examination within touching distance of all inspectable parts of a structure. This should include adjacent earthworks or waterways where relevant to the behaviour or stability of the structure.”.

2. **Principal Inspections shall be carried out at intervals which would not normally exceed 6 years, but exceptionally may be up to 10 years.** (as defined in the inspection standard).

Any structure that falls within the Scope of the Inspection Standard should be included in the Principal Inspection Programme. The Scope is summarised as follows:-

a. All structures with span greater than or equal to 3m
b. Culverts with span of 2 - 3m, or multi-cell culverts where cumulative span is greater than or equal to 5m for multi-cell culverts; where cumulative span is greater than or equal to 5m and there is less than 1m of fill cover above culvert to finished road level.

c. Corrugated metal (Armco types) with a span greater than or equal to 0.9m
d. All pedestrian subways / underpasses
e. Retaining walls were height of retained fill is greater than 1.5m (ground level behind wall is more than 1.5m higher than ground level at front of wall)
f. High masts (>=20m height) for lighting, masts for television cameras, catenary lighting systems and supporting structures for electrical equipment.

g. Structural aspects of signs/signal gantries (refer to Inspection Standard BD 63/07: Table 1)

* CURRENT INSPECTION STANDARD

DMRB : Volume 3 : Section 1 : Part 4 : BD63/07
Last verified for updates : April 2010 (by GB) : Next verification due April 2011

Transportation Structures
**GENERAL INSPECTIONS**

**GENERAL INSPECTION**
All highway structures owned/maintained/adopted by the Transportation-Structures office shall be included in the General Inspection programme.

**DEFINED AS A VISUAL EXAMINATION OF REPRESENTATIVE PARTS OF THE STRUCTURE DEFINED IN INSPECTION STANDARD (SEE NOTES BELOW)**

**A BRIDGE CONDITION INDICATOR (BCI) FORM SHOULD BE COMPLETED FOR EACH INSPECTION**

**ISSUE ORDERS FOR ANY URGENTLY REQUIRED WORKS IMMEDIATELY**

**UPDATE STRUCTURES DATABASE & BCI RECORD**
including defects, work required, priorities, cost estimates etc & Update General Inspection dates

---

**GENERAL INSPECTION NOTES:**
1. Defined as comprising "a visual inspection of all parts of the structure that can be inspected without the need for special access equipment or traffic management arrangements".
2. All Highway structures owned/maintained/adopted by the Transportation-Structures office (including retaining walls were height of retained fill is greater than 1.5m (ground level behind wall is more than 1.5m higher than ground level at front of wall) shall be included in the General Inspection programme.
3. The inspection shall include any adjacent earthworks or waterways, damage or other changes to which could affect the stability of the structure. River banks in the vicinity of the structure shall be examined for evidence of scour or for conditions, such as the deposition of debris, which could lead to scour.
4. General Inspections are required not more than 2 years after the last General or Principal Inspection.

---

* CURRENT INSPECTION STANDARD
DMRB : Volume 3 : Section 1 : Part 4 : BD63/07
Last verified for updates : April 2010 (by GB) : Next verification due April 2011
**ACCEPTANCE INSPECTIONS**

**NEW STRUCTURE**
- Carry out a joint inspection (with developer) relating to adoption / handover (to be undertaken as and when required) defined in inspection standard.

**EXISTING STRUCTURE**
- Acceptance inspection (an inspection made prior to the adoption of a new or existing structure).

**CARRY OUT A PRINCIPAL INSPECTION OF THE STRUCTURE**
- (Refer to Page 3 of 5 above) unless suitable records are already available.

**COMPLETE A RECORD OF ANY OUTSTANDING / UNACCEPTABLE WORKS**
- A copy is to be given to the developer for actioning prior to adoption.

**DEVELOPER IS TO HAND OVER ANY MAINTENANCE, OPERATIONAL GUIDES, HEALTH & SAFETY FILES, AS BUILT DRAWINGS ETC.**

**ENSURE NEW STRUCTURE FILES ARE OPENED AND ALL RELEVANT PAPERWORK AND DRAWINGS ETC ARE FILED**

**ADD NEW STRUCTURE TO DATABASE (FILL IN FIELDS WITH AVAILABLE INFORMATION)**

**ADD NEW STRUCTURE TO INSPECTION ROUTINES PROGRAMME**

*CURRENT INSPECTION STANDARD*
DMRB : Volume 3 : Section 1 : Part 4 : BD63/07
Last verified for updates : April 2010 (by GB) : Next verification due April 2011

Transportation Structures
**OTHER INSPECTIONS**

- **SPECIAL INSPECTION**
  - Close examination of specific structure parts or defects (to be undertaken as and when required) Defined in inspection standard

- **SUPERFICIAL INSPECTION**
  - A cursory check for obvious defects (to be undertaken as and when required) Defined in inspection standard

- **UNDERWATER INSPECTION**
  - Inspections of foundations and structural parts that are underwater (to be undertaken as and when required) Defined in inspection standard

- **A FULL DETAILED INSPECTION REPORT IS TO BE WRITTEN INCLUDING; Condition Report, Conclusions & Recommendations.**

- **ANY MAINTENANCE / STRUCTURE SAFETY ISSUES IDENTIFIED SHOULD BE ASSESSED IMMEDIATELY AND APPROPRIATE ACTION TAKEN**

  - Issue orders for any urgently required works immediately & update the ‘Repair Works Required’ spreadsheet for other works

  - Any findings should be well documented and stored in the structure filing system

  - Update structures database with inspection information/findings

---

* CURRENT INSPECTION STANDARD

DMRB : Volume 3 : Section 1 : Part 4 : BD63/07

Last verified for updates : April 2010 (by GB) : Next verification due April 2011