

# 1152 Road Openings and Restorations (Utilities)

Guidelines for compliance with S138 permit for works/activity related to Utilities

## Objectives

Provide clearing, excavation, backfilling and restoration activities associated with the installation of public utility services within public road reserves or other reserves under the control of Local Government Authorities all in conformance with the objectives of the Streets Opening Conference Information Bulletin on Codes and Practices and the Model Agreement for Local Councils and Utility/Service Providers. This work section excludes the installation activities of the relevant utility services.

## Traffic safety

- Traffic obstruction: Construct the Works in a safe manner with the least possible obstruction to traffic, both vehicular and pedestrian.
- Guidance scheme: Submit a Traffic Guidance Scheme and carry out all activities for controlling traffic, both vehicular and pedestrian, in accordance with 1101 Control of traffic. This is a HOLD POINT.

## Environmental control measures

Implement an Environment Management Plan containing erosion and sedimentation control measures; and noise and dust control measures, as required by the relevant environmental legislation and in accordance with the requirements of the relevant Statutory Authorities.

## General

Before commencing earthworks, locate and mark existing underground services in the areas which will be affected by the earthworks operations including clearing, excavating and trenching. Obtain locations of water, sewer, storm water, gas, electricity and telephone services.

## Disposal of spoil

Legally dispose of all spoil and waste material to an appropriate recycling facility, disposal site or a legal waste management centre

## Trench backfill

- Bedding, haunch, side and overlay zones
- Installation: In conformance with the particular utility authority requirements.
- Overlay zone thickness: Maximum of 300mm immediately over the utility service.
- Material: As nominated by the utility authority.

## Backfill

- Extent: Between the overlay zone and the top of subgrade. Nominally 300mm below final surface level.

## Materials:

- 14:1 moist washed river sand/cement mix or non-cohesive backfill material

## Relative compaction

- To the Compaction table when tested in conformance with AS 1289.5.4.1 for modified compactive effort.
- Non-cohesive materials: Tested to AS 1289.5.6.1.
- Sand/cement backfill material: No compaction testing is required
- Subbase and base: After backfilling to subgrade level, install the subbase and base material in conformance with the final restoration of the wearing surface
- Temporary restoration: If the carriageway will be re-opened to traffic prior to final restoration, provide temporary restoration. Monitor and maintain temporary restorations in a safe condition until the final restoration is completed.

## Materials:

- Flexible pavements generally
- Tack coat for asphalt or seal coat for sprayed bituminous seals: Present a waterproof surface at application.
- Asphaltic limits: Conform to the following:
  - Existing wearing course removal: Remove between 100 to 400 mm, in plan, beyond the perimeter of any trench excavation. Dispose removed materials off-site.
  - Asphalt placed as restoration: Extend 100 to 400 mm minimum, in plan, beyond the perimeter of any trench excavation.
  - Joints between new and existing asphalt: Conform to the following:
    - Joint: Vertical and cut by diamond saw or milling machine.
  - Vertical face and subgrade surface of old asphalt: Treat by bituminous tack coating.
- -Defects: Seal any joints between the existing and new asphalt during the defects maintenance period with an approved joint sealant.

## Turfed verges

- **Topsoil:** 50mm minimum thickness, placed on the subgrade prior to restoration of turfed verges.
- **Existing grass turf:** Re-lay to conform with the original grassed surface.
 

**Method:** Hand butt turfs against each other in rows and topdress the seams with topsoil, rolled and watered to ensure direct and uniform contact with the topsoil.

**Additional turf:** If required complete the affected area with turf of the same species
- **Temporary restoration:** If the footpath or driveway will be re-opened to pedestrian traffic prior to final restoration, provide temporary restoration. Monitor and maintain temporary restorations in a safe condition until the final restoration is completed.

## Access

Liaise with property owners regarding access and ensure that pedestrian and vehicular access is provided to all properties at the end of each day's work unless otherwise approved.