



CI-0205

TAB 2: SITE INFRASTRUCTURE AND DEVELOPMENT

Civil Works

Ditch Drainage

Where a storm sewer system is not available, or where an “interim” type of development is desired, ditches and related culverts may be used to carry the drainage down one or both sides of the paved areas. Culverts shall have safety grilles at ends, and ditches subject to substantial ponding shall be fenced, for safety, or filled with rip-rap, and topped with geotextile fabric and granular topsoil and sod.

Sub-Grade Drainage

Rail platform sub-grade drainage is subject to Railway requirements. See Heavy Rail section of this manual.

Parking lot sub-grade design shall be used as required by site conditions.

UTILITIES

- > Current applicable codes and regulations, and requirements of Utility owners and authorities having jurisdiction.
- > Railway requirements: applicable to all utilities on the railway R.O.W. (see also Heavy Rail section).
- > Minimized construction duration on Railway R.O.W.'s (due to the cost of the Railway requirement for a full time flagman and consultant site supervision).
- > Minimized disruption of utilities to adjacent properties, vehicular traffic and GO Transit operations.
- > Restoration work necessitated by utility installations.
- > Arc flash analysis shall be included in design services. Refer to TAB 7: Electrical, for information on Arc Flash Hazards and labeling”.

DESIGN REQUIREMENTS

SITE PREPARATION

Grading:

- > Grading shall be designed to avoid excessive slopes and shall be integrated with surrounding landforms to provide slope stabilization and positive flows to the drainage system.
- > Where existing landforms or vegetation are to be preserved, appropriate protection and construction controls shall be designed.