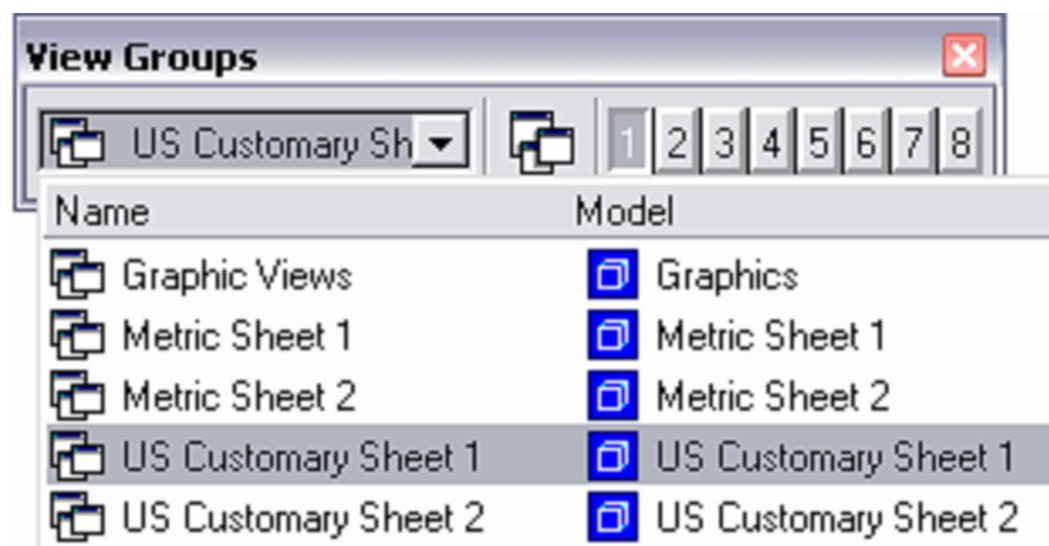


Instructions

(Grading Summary and Mass Haul Diagram Earthwork Representations)

- Switch between models to get Metric or U.S. Customary Units and between Sheets 1 & 2.

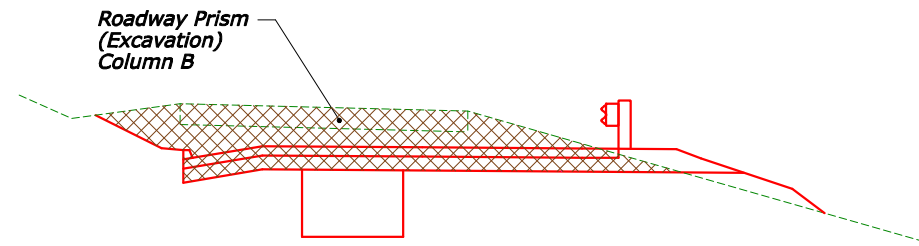


The Grading Summary and Mass Haul Diagram Earthwork Representations drawing contains 5 models: Metric (Sheet 1 & 2), US Customary (Sheet 1 & 2) and the Graphics model which contains the graphics for sheet 1. The Graphics model is referenced into the sheet 1 (Metric and US Customary) models where the border and project information is located. **DO NOT MODIFY THE "GRAPHICS" MODEL.**

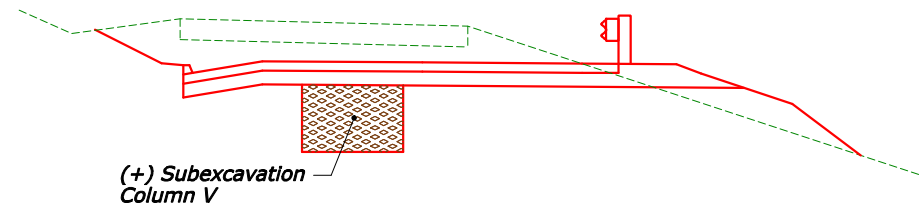
- Gray elements are notes for the user. (They are construction elements and will not plot.)
- Attach project border to drawing. It will attach in the correct location.
- All wall earthwork representation drawings are located in the Sheet 2 (Metric and US Customary) model. Include only wall types that are being used on the project. Place by snapping to the gray box.

If more than one sheet of wall earthwork representations is needed, an additional border can be attached to the Sheet 2 model.

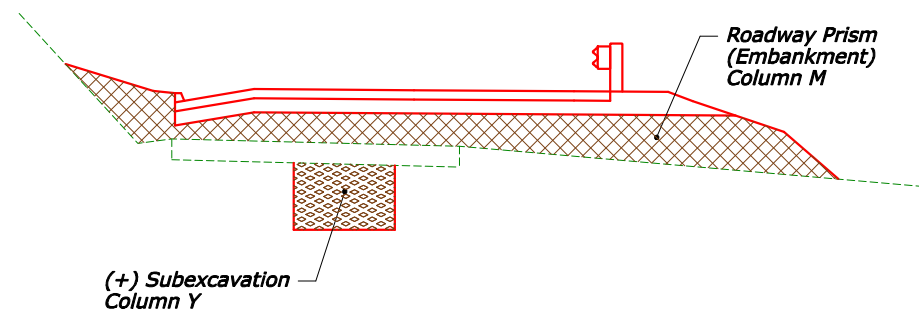
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
			B4	B19



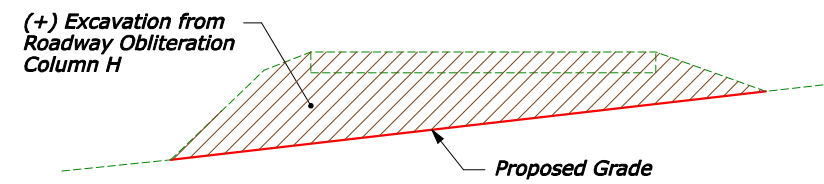
ROADWAY EXCAVATION



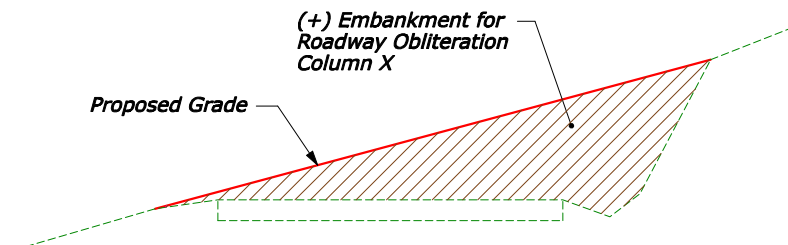
ADJUSTMENTS TO ROADWAY EXCAVATION



ROADWAY EMBANKMENT



ROADWAY OBLITERATION (EXCAVATION)



ROADWAY OBLITERATION (EMBANKMENT)

Note:

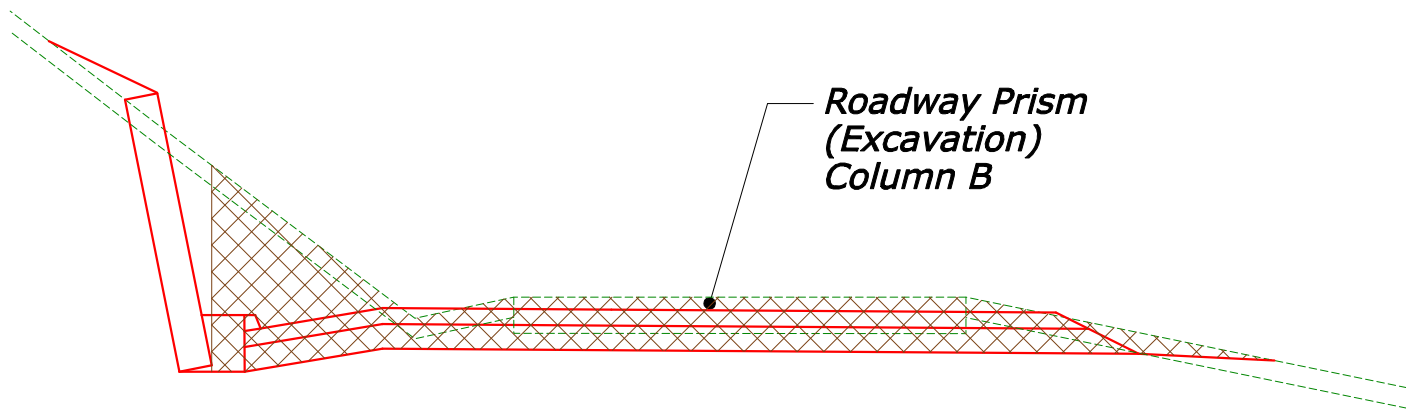
1. Column designations and headings correspond to the Grading Summary.

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

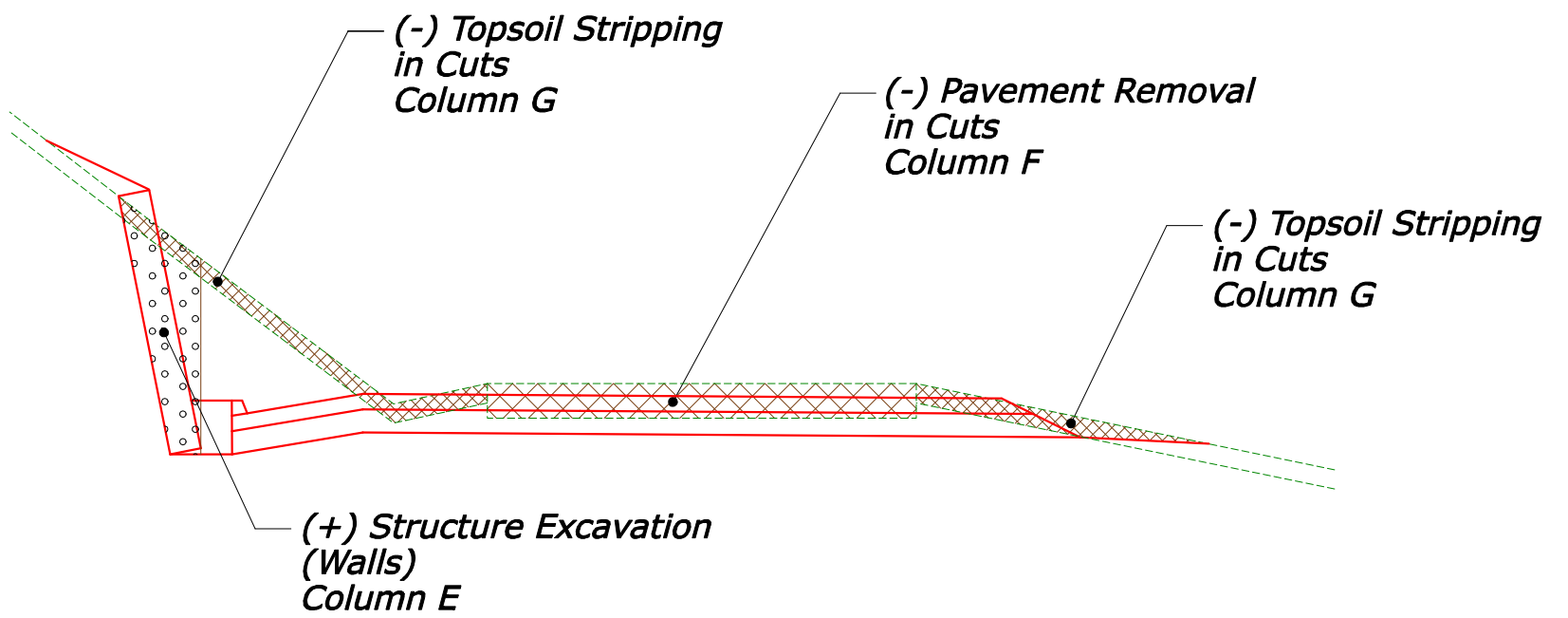
METRIC

**GRADING SUMMARY AND
MASS HAUL DIAGRAM
EARTHWORK REPRESENTATIONS**

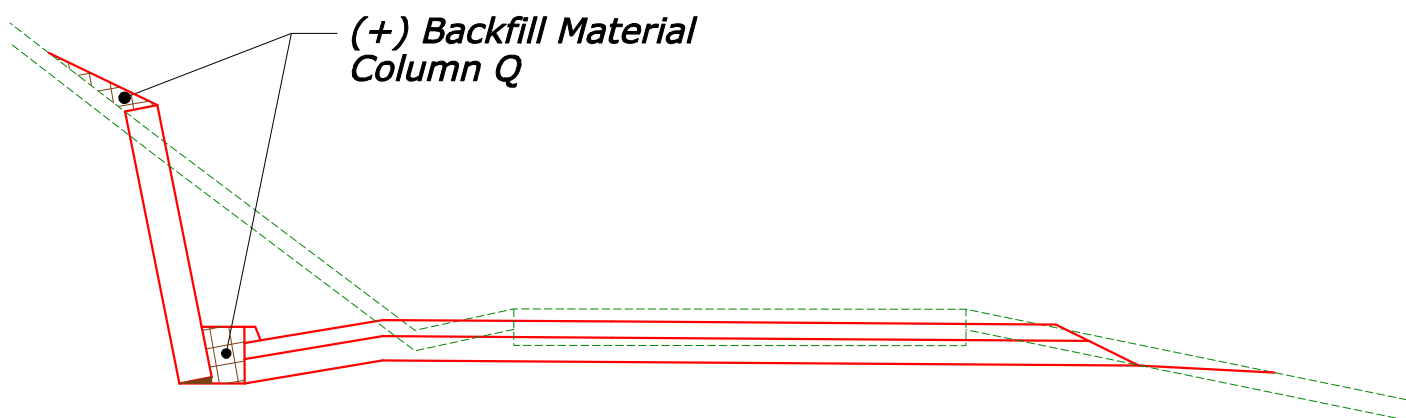
Sheet 1 of 2



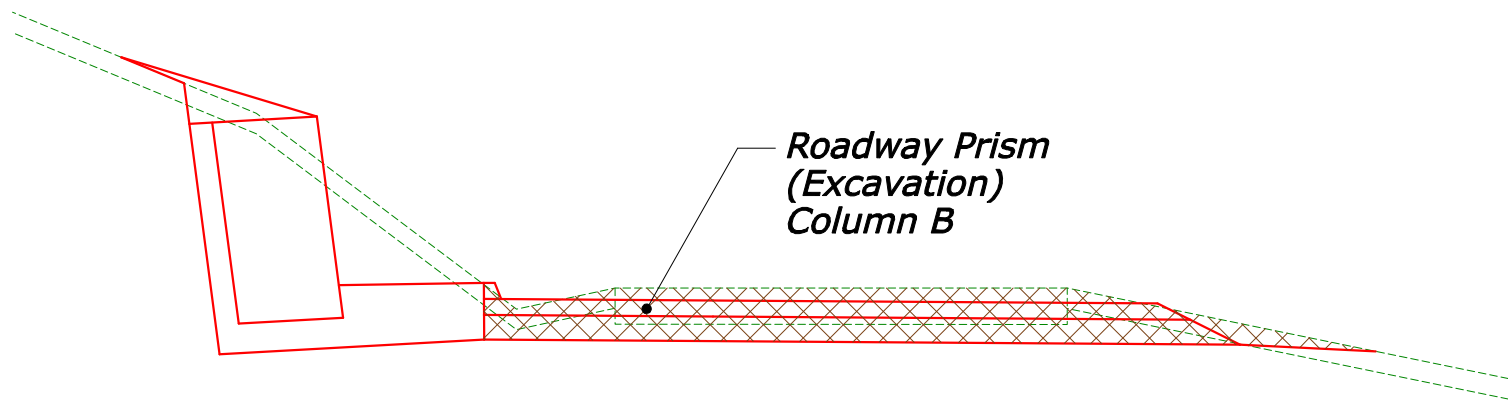
**ROADWAY EXCAVATION
SOIL NAIL WALL**



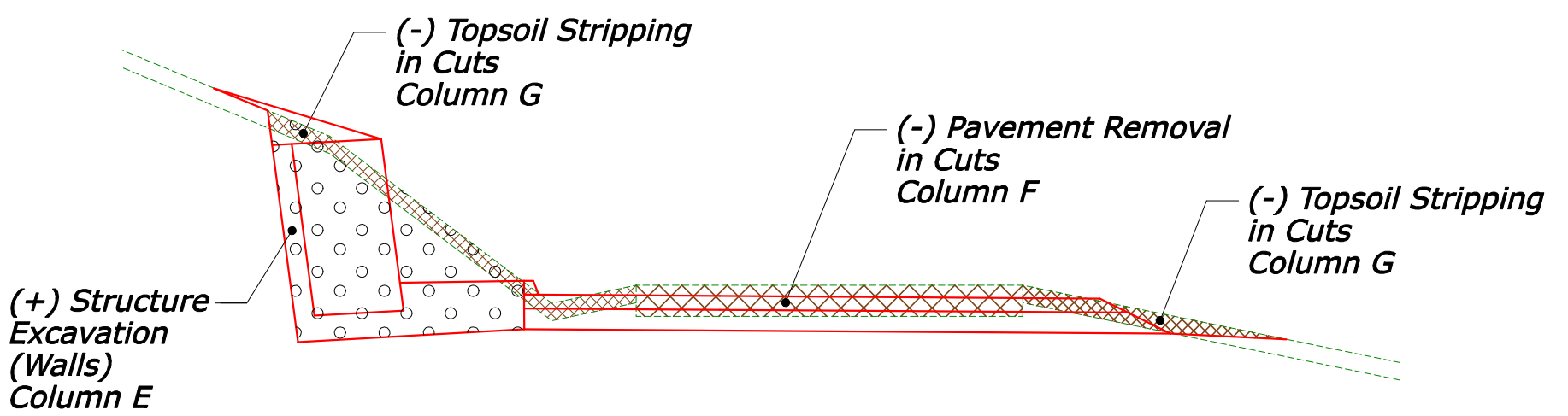
**ADJUSTMENTS TO ROADWAY EXCAVATION
SOIL NAIL WALL**



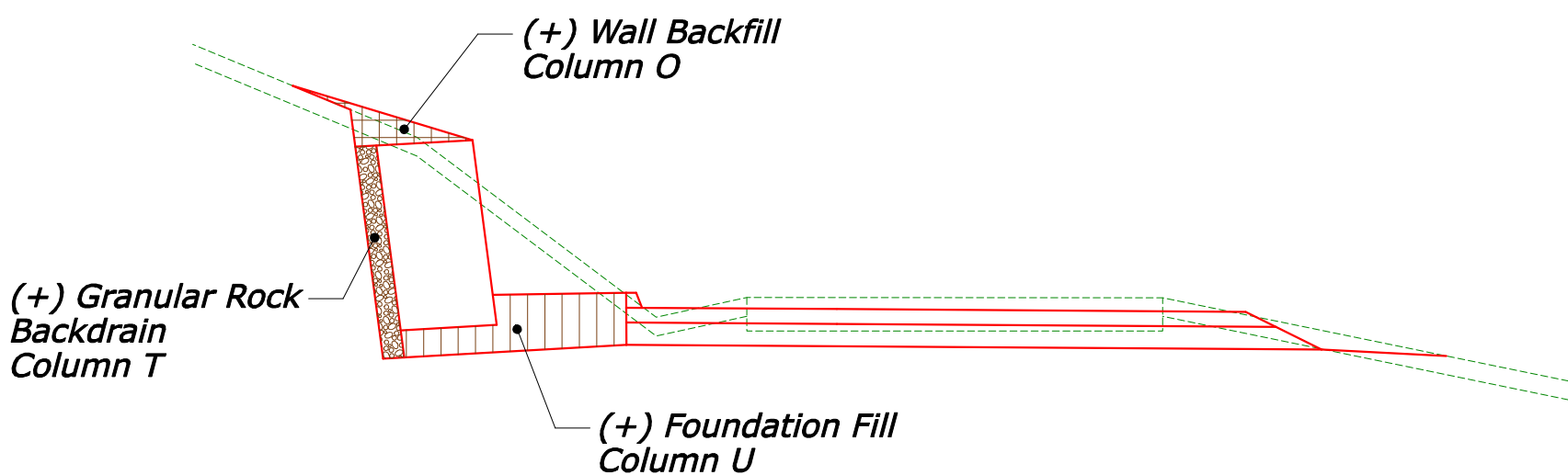
**ROADWAY EMBANKMENT
SOIL NAIL WALL**



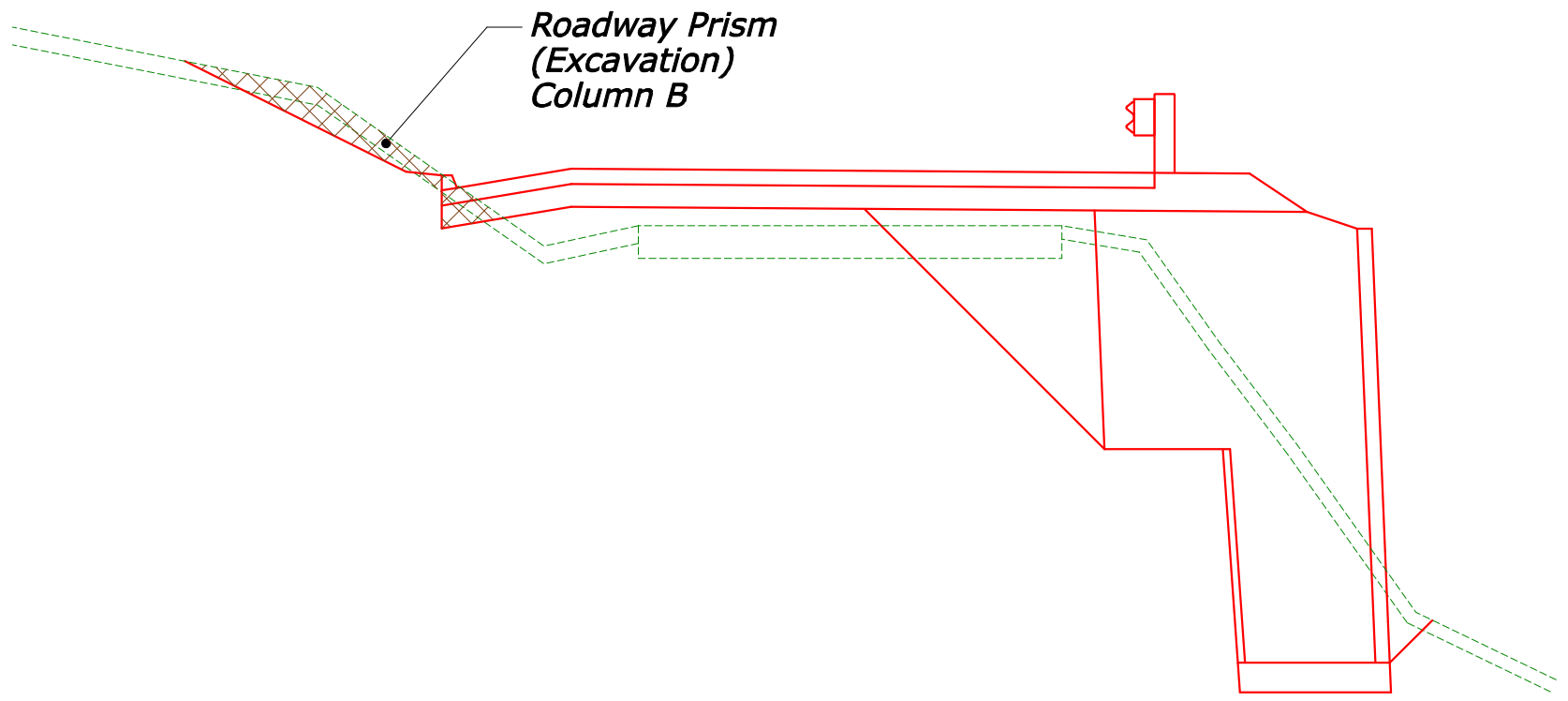
**ROADWAY EXCAVATION
ROCKERY**



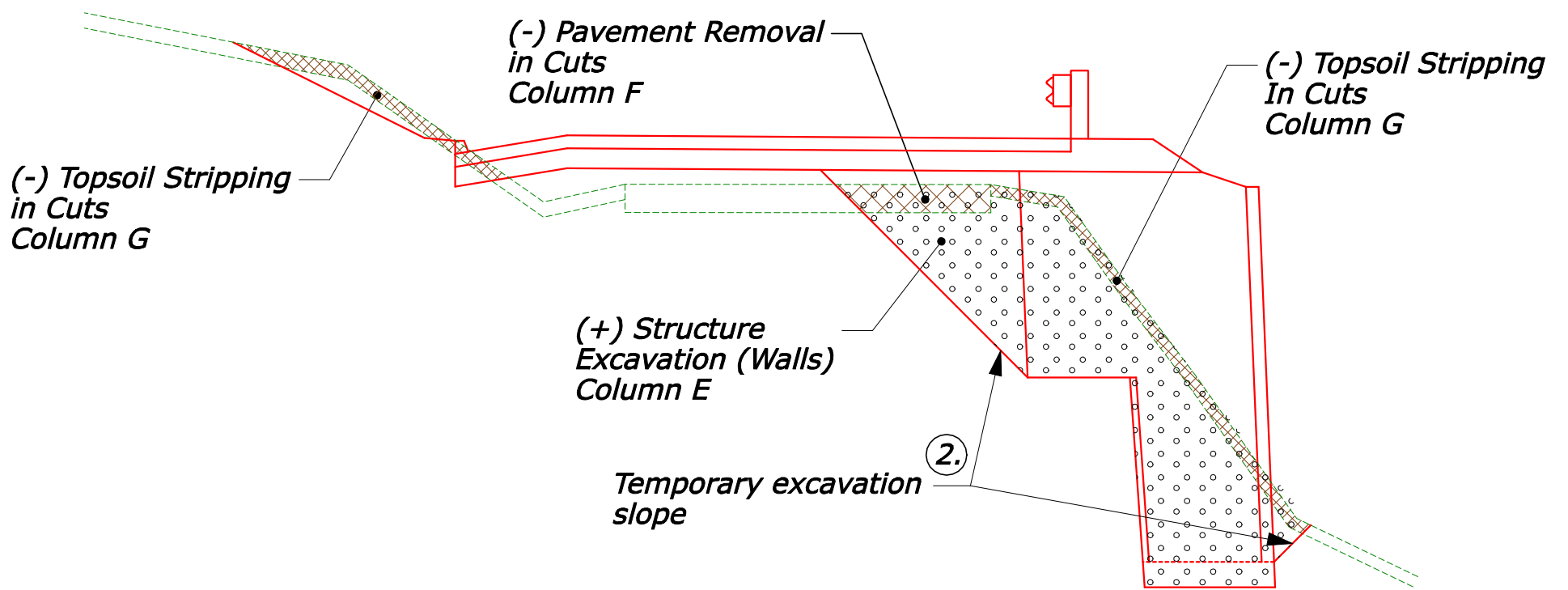
**ADJUSTMENTS TO ROADWAY EXCAVATION
ROCKERY**



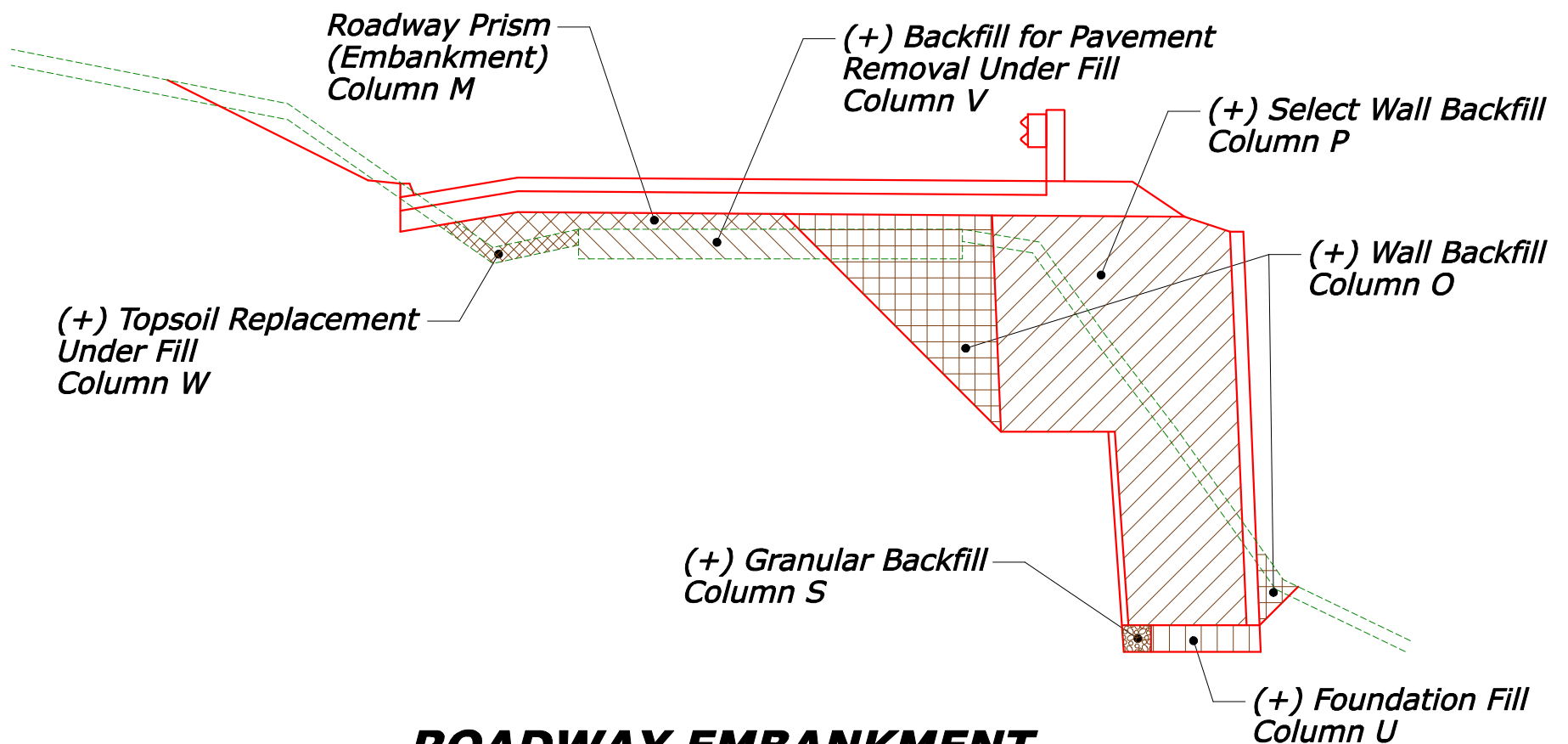
**ROADWAY EMBANKMENT
ROCKERY**



**ROADWAY EXCAVATION
SMSE WALL**

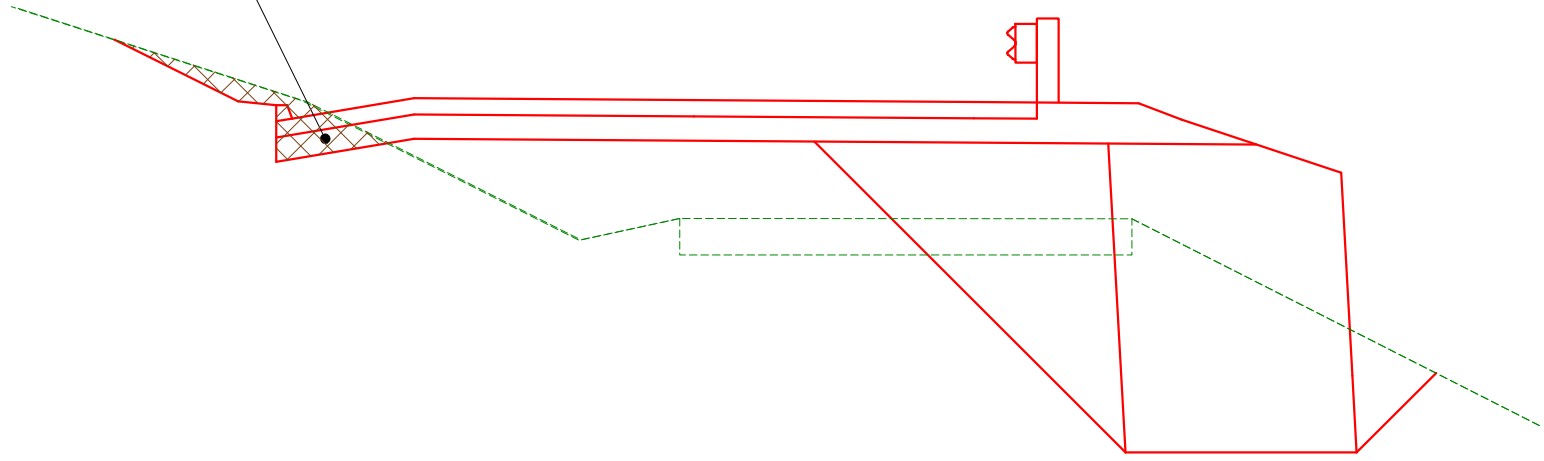


**ADJUSTMENTS TO ROADWAY EXCAVATION
SMSE WALL**



**ROADWAY EMBANKMENT
SMSE WALL**

Roadway Prism
(Excavation)
Column B



ROADWAY EXCAVATION MSE WALL

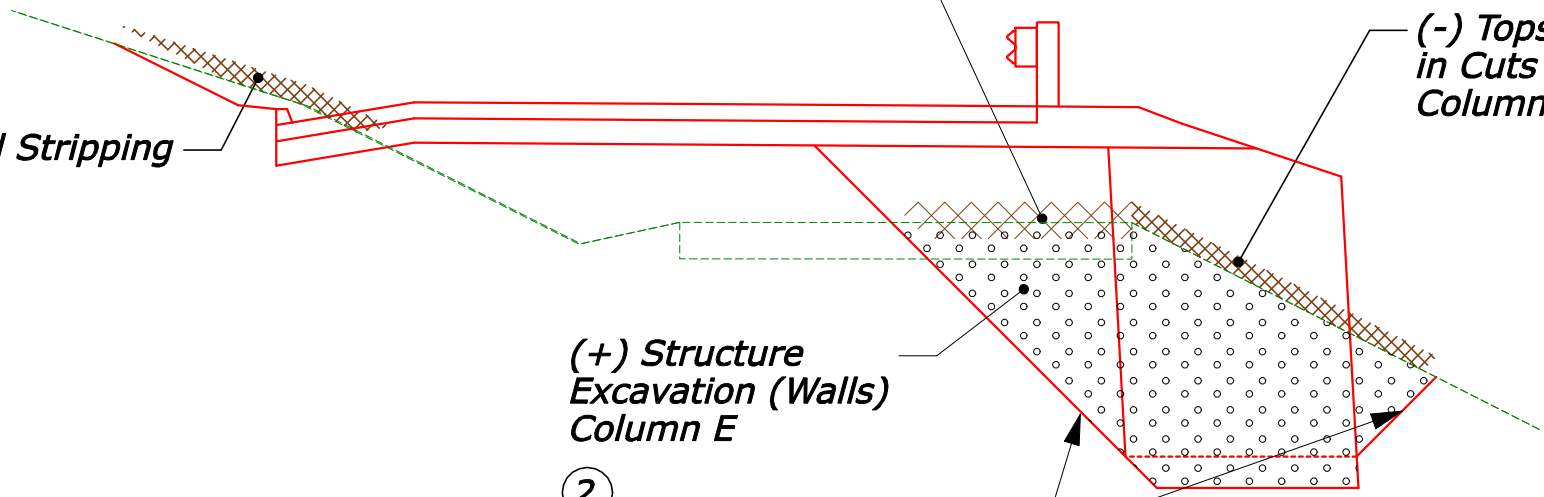
(-) Pavement Removal in Cuts
Column F

(-) Topsoil Stripping
in Cuts
Column G

(-) Topsoil Stripping
in Cuts
Column G

(+) Structure
Excavation (Walls)
Column E

②
Temporary excavation
slope



ADJUSTMENTS TO ROADWAY EXCAVATION MSE WALL

Roadway Prism
(Embankment)
Column M

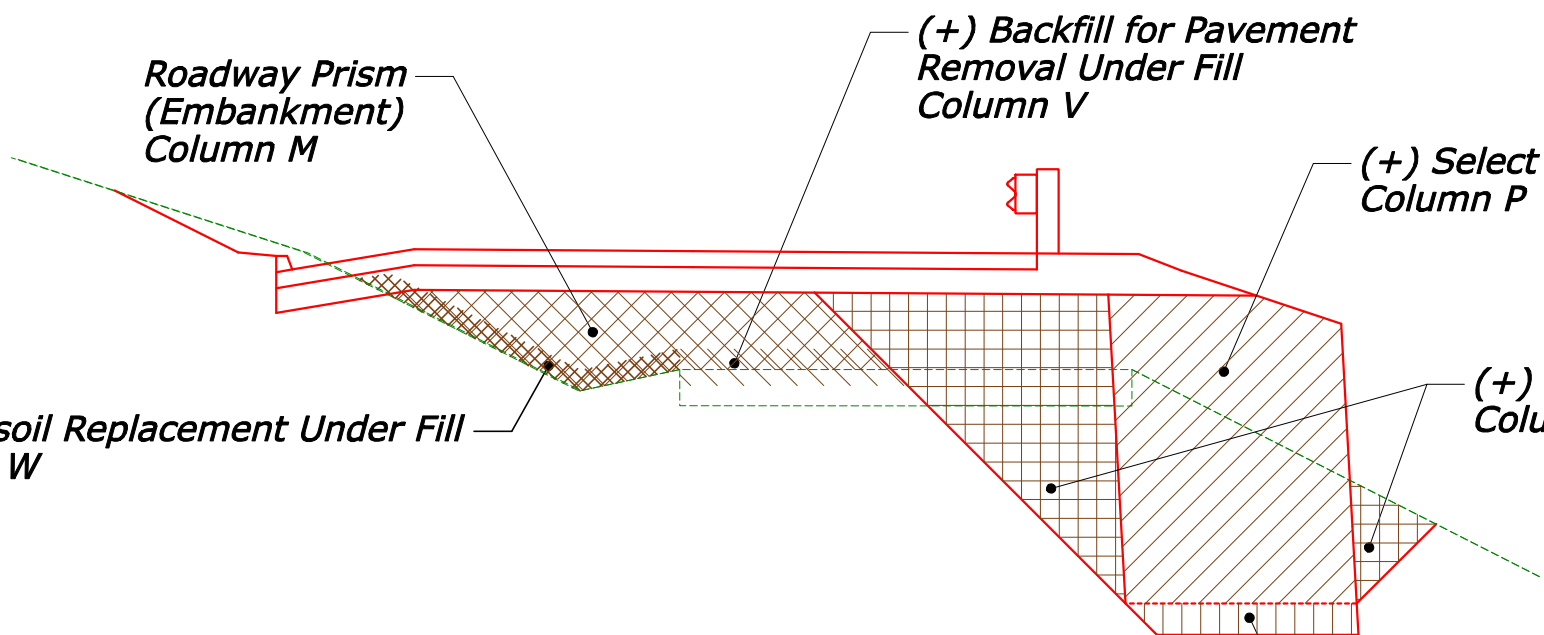
(+) Backfill for Pavement
Removal Under Fill
Column V

(+) Select Wall Backfill
Column P

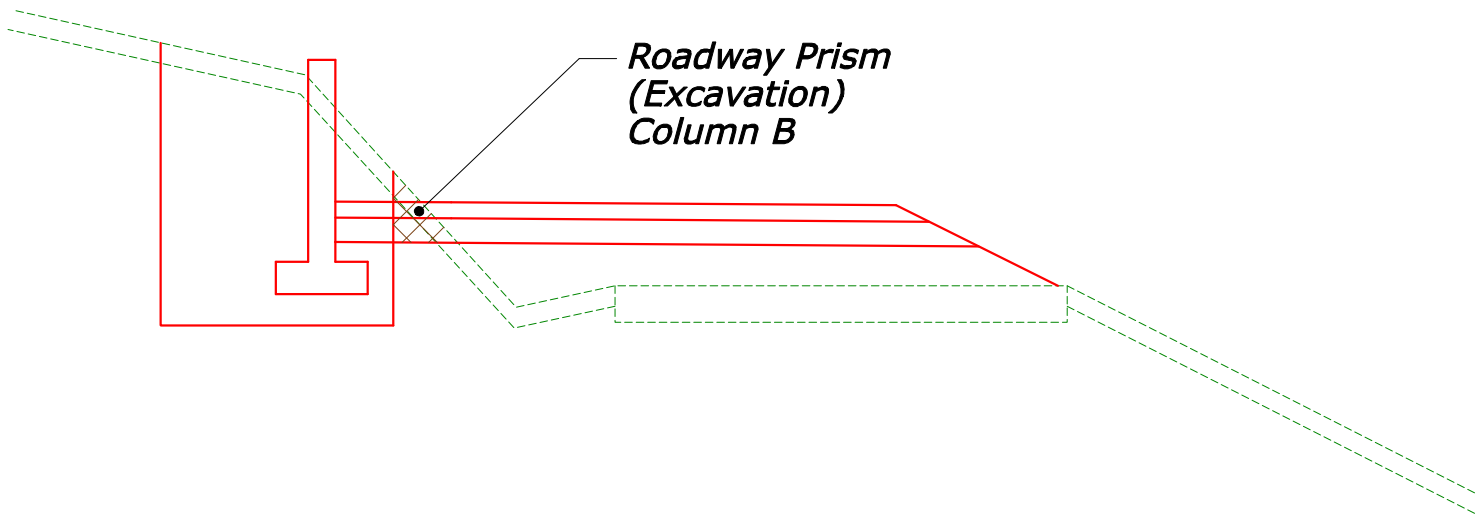
(+) Topsoil Replacement Under Fill
Column W

(+) Wall Backfill
Column O

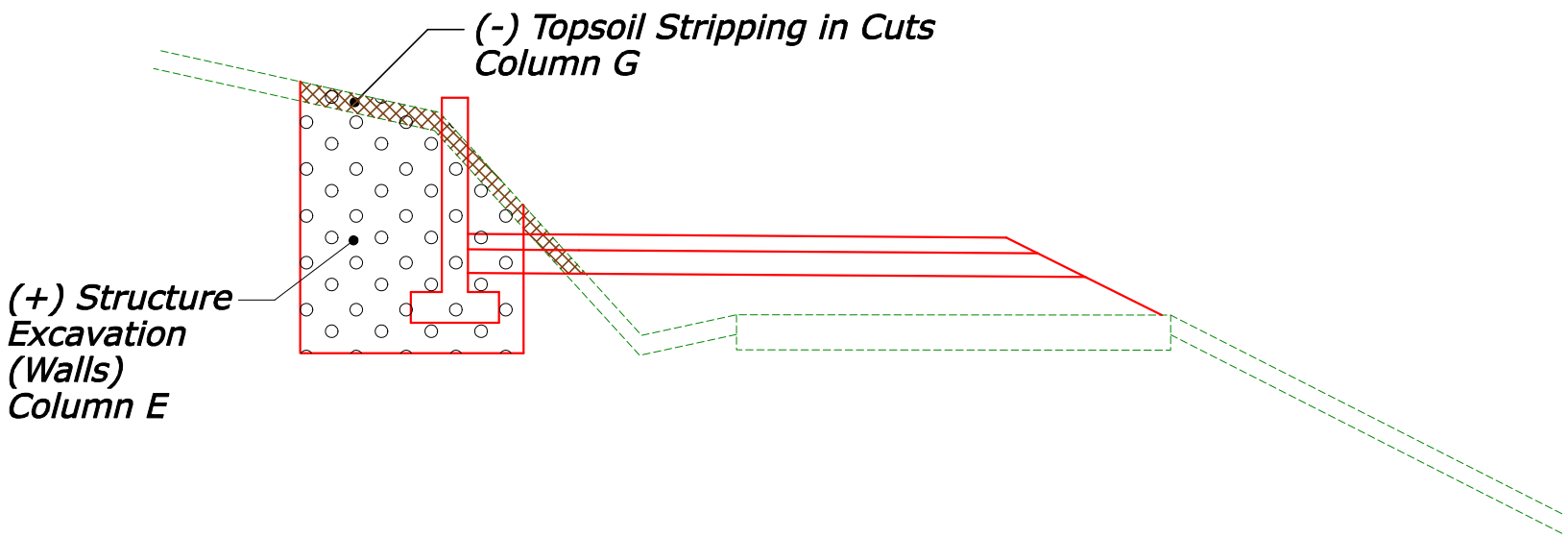
(+) Foundation Fill
Column U



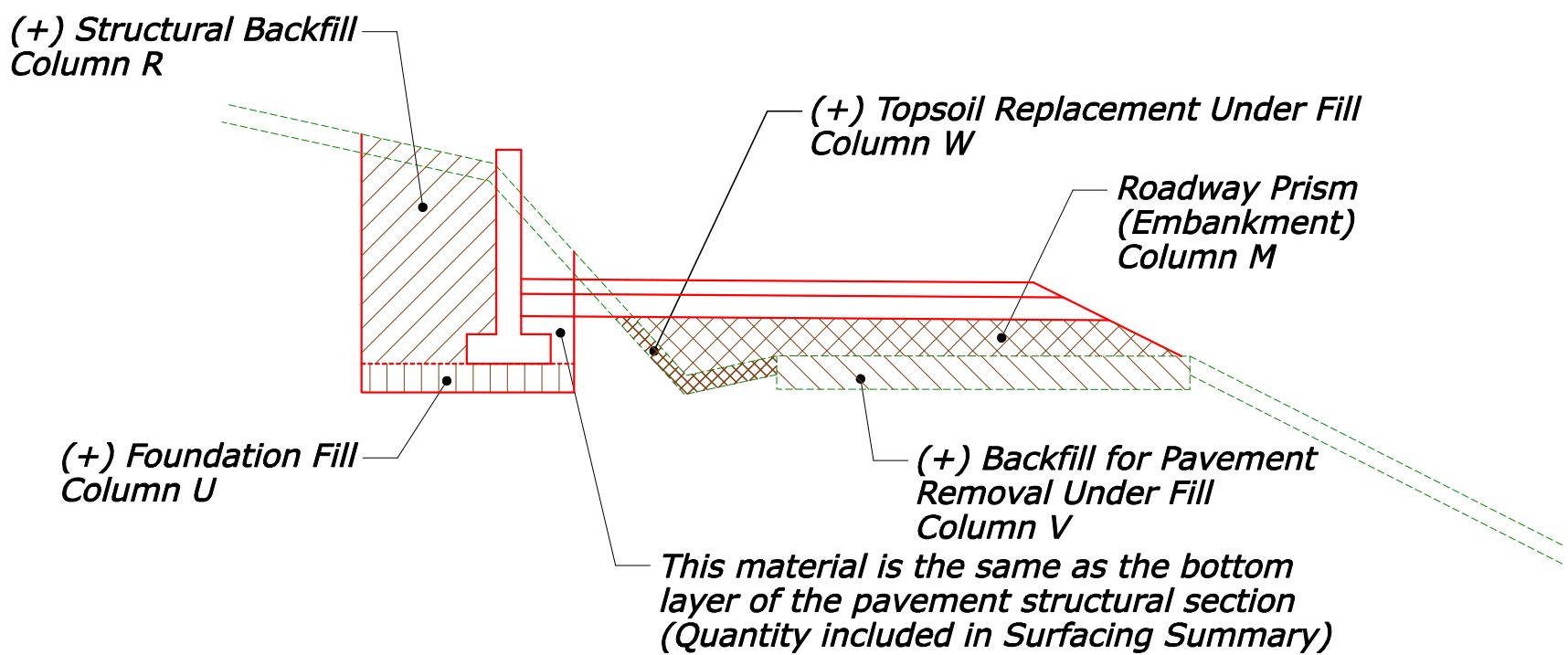
ROADWAY EMBANKMENT MSE WALL



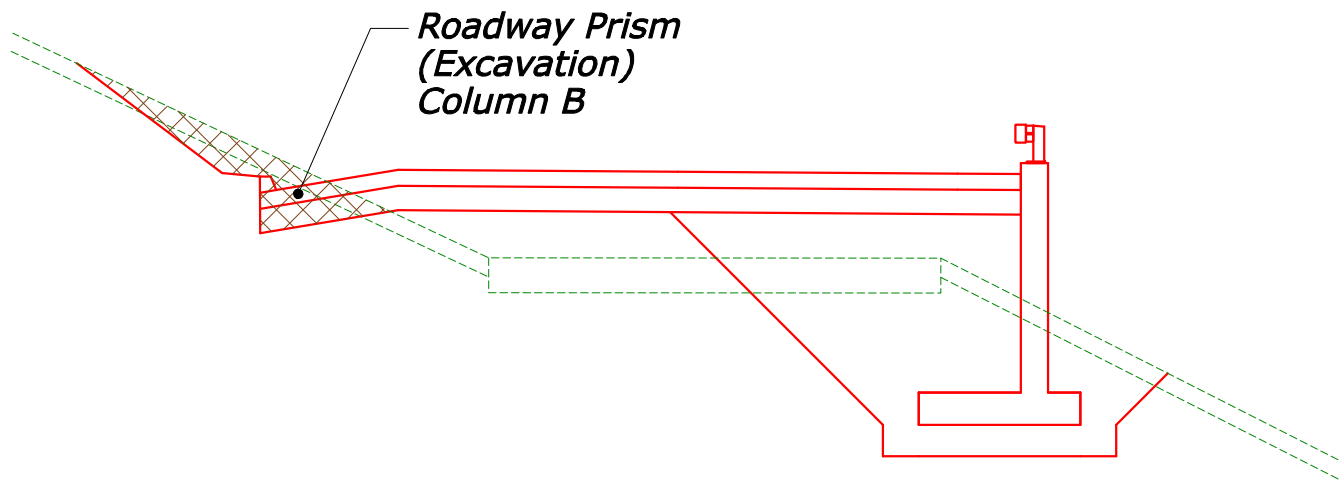
**ROADWAY EXCAVATION
CONCRETE CUT WALL**



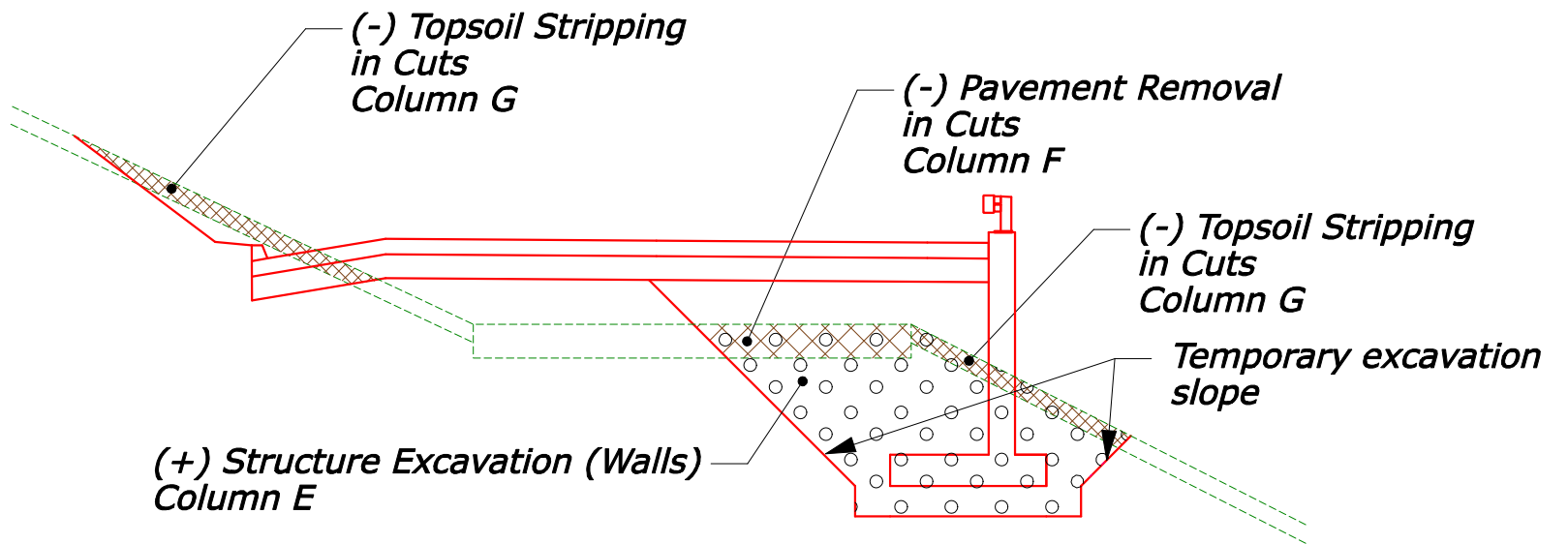
**ADJUSTMENTS TO ROADWAY EXCAVATION
CONCRETE CUT WALL**



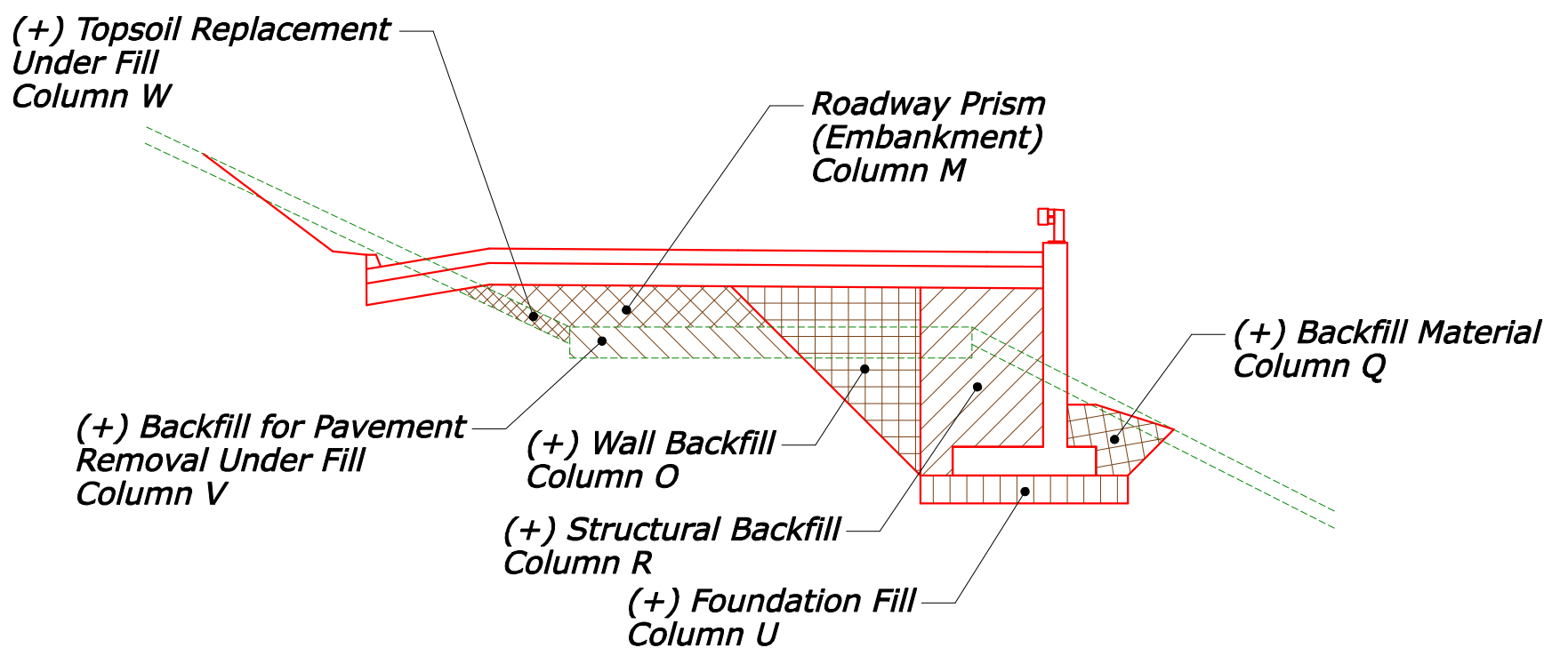
**ROADWAY EMBANKMENT
CONCRETE CUT WALL**



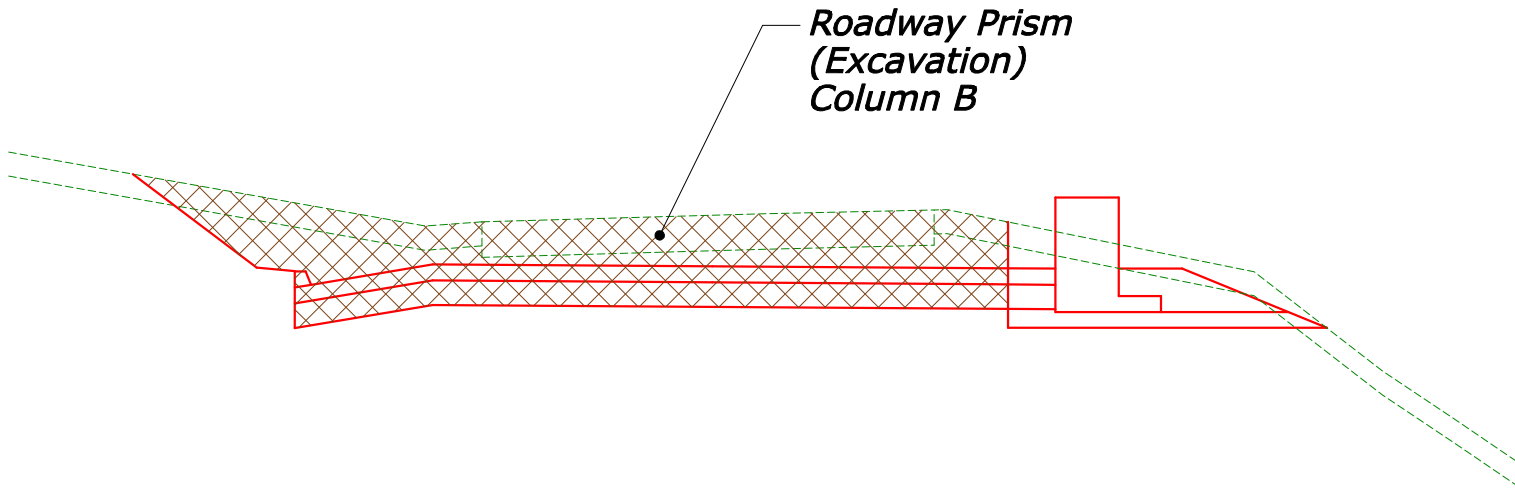
**ROADWAY EXCAVATION
CONCRETE RETAINING WALL**



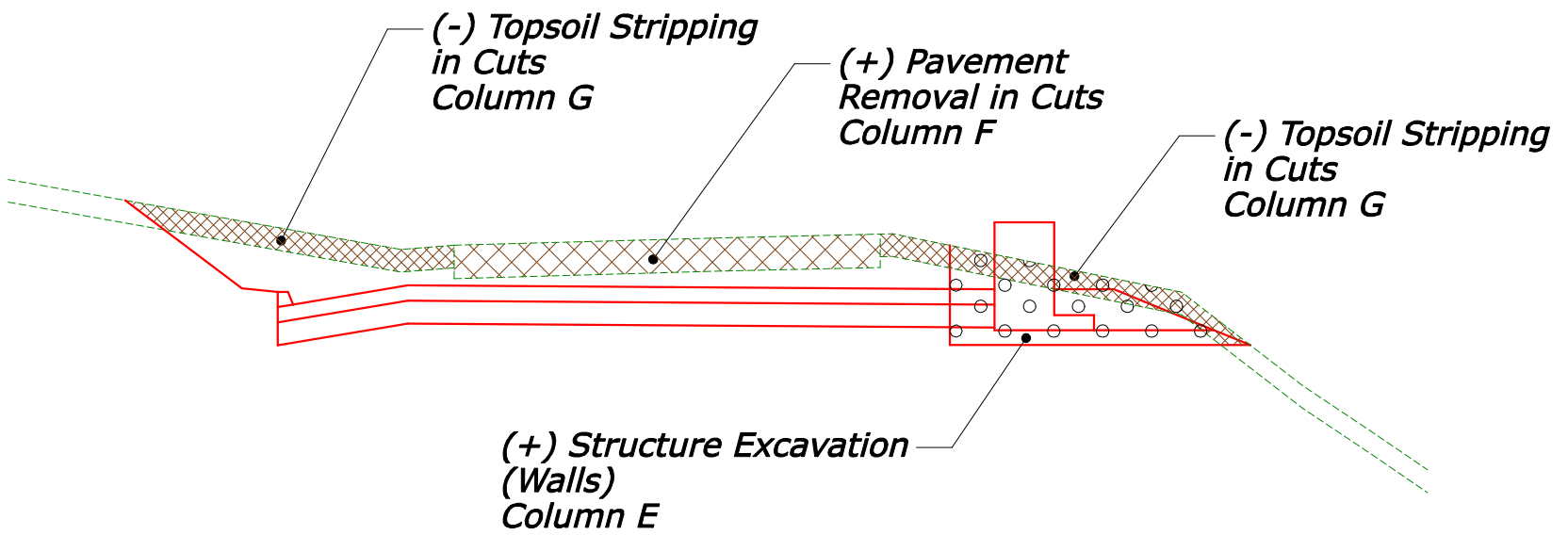
**ADJUSTMENTS TO ROADWAY EXCAVATION
CONCRETE RETAINING WALL**



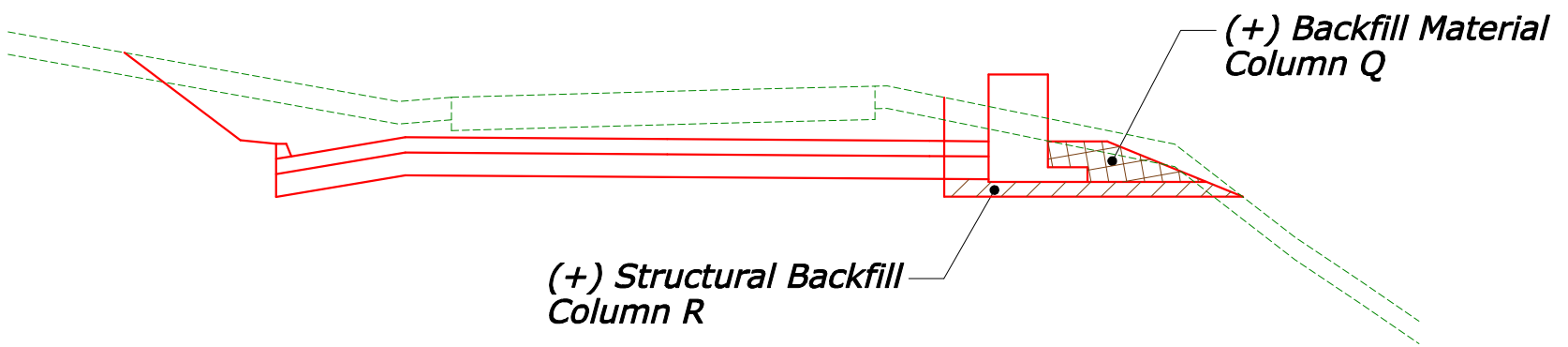
**ROADWAY EMBANKMENT
CONCRETE RETAINING WALL**



**ROADWAY EXCAVATION
GUARDWALL**



**ADJUSTMENTS TO ROADWAY EXCAVATION
GUARDWALL**



**ROADWAY EMBANKMENT
GUARDWALL**