# **Notes to the Designer**

## Updated May 2024 Sediment Trap Special

### **General Information**

- All graphics and text will be in the sheet model.

## - Appropriate Applications

Sediment traps are temporary containment areas that should be placed before sediment-laden storm water enters a storm drain or water course.

#### - Limitations.

Requires large surface area. Size may be limited by right-of-way.

Do not use sediment traps for drainage areas greater than 5 acres

Cannot install in live streams

## - Layout Guidance

Refer to drawing for layout guidance

Design a sediment trap to maximize the surface area for infiltration and sediment settling.

In the siting and design phase, take care to situate sediment traps for easy access by maintenance crews. This allows for periodic inspection and maintenance.

The volume of a natural sediment trap can be approximated using the following equation (Smolen et al., 1988):

Volume (
$$ft^3$$
) = 0.4 x surface area ( $ft^2$ ) x maximum pool depth ( $ft$ )

The volume of the sediment trap needs to be sufficient to hold the runoff from a 2 year- 24 hour storm for the area being drained. Include the calculations in the SWPPP.

## Applicable SCRs

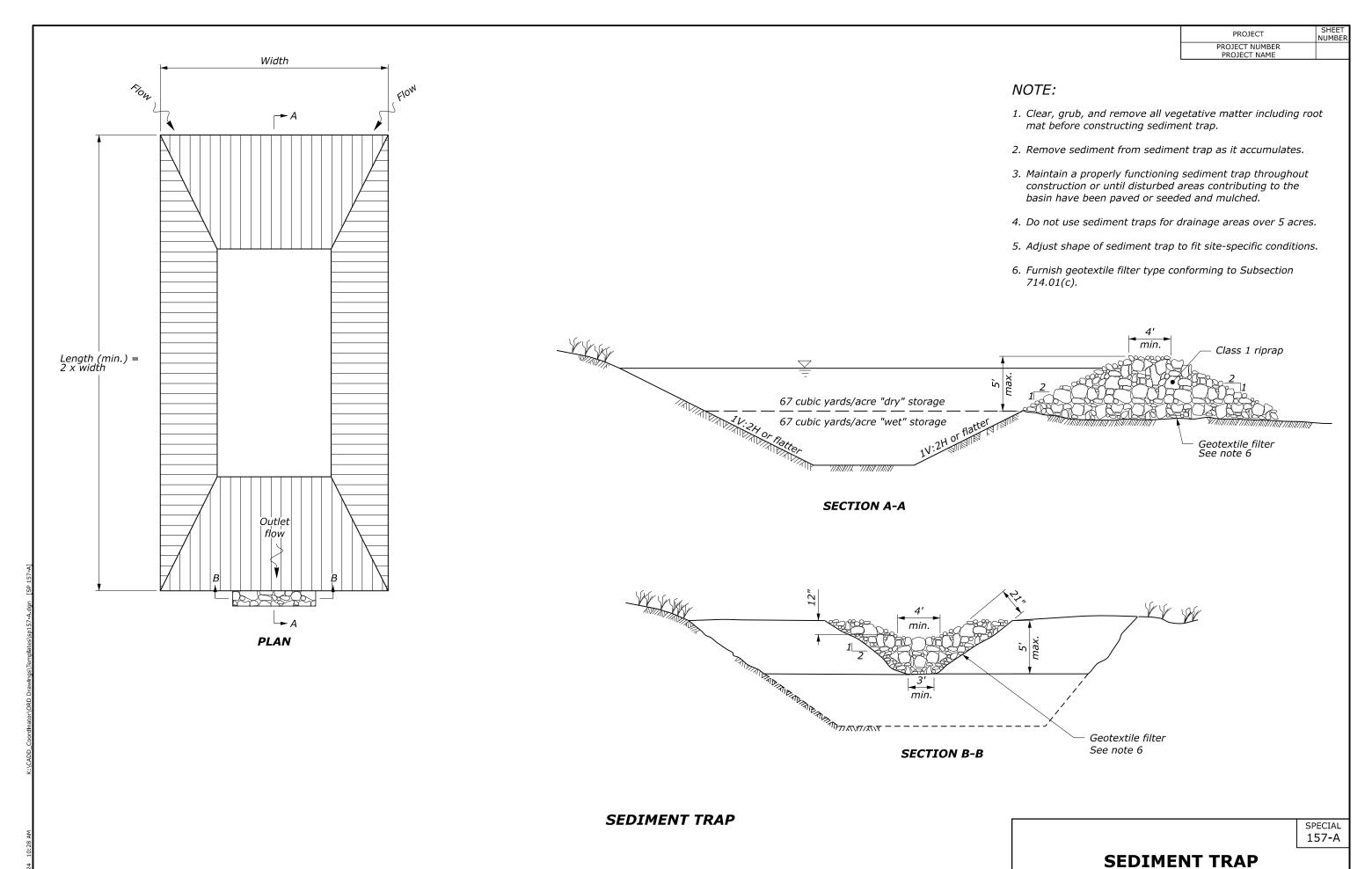
- None

## Typical Pay Item Used

- 15706-0400 Soil Erosion Control, Sediment Trap [EA]

## Updates

- April 2021
  - Updated for OpenRoads Designer
- August 2023
- Updated border; updated to international seed file
- May 2024
- Updated for FP24



SEDIFICIAL TRA

NO SCALE