



**TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN**

If the EXCAVATED INLET SEDIMENT TRAP is used, show the following information:

- Drainage area =  $0.64$  ac
- Required sediment storage =  $67 \text{ cy/ac} \times \text{drainage area}$
- Required sediment storage =  $67 \text{ cy/ac} \times 0.64 \text{ ac}$
- Required sediment storage =  $42.88 \text{ cy} = 1157.8 \text{ cf}$
- Assume excavation depth (minimum of 1.5 ft.) =  $2$  ft
- Assume slope of sides (shall not be steeper than 2:1) =  $2:1$
- Determine required surface area
- $S_{min} = \text{Required sediment storage} / \text{excavation depth}$
- $S_{min} = 42.88 \text{ cy} / 2 \text{ ft}$
- $S_{min} = 21.44 \text{ sq ft}$
- Assume shape of excavation and determine dimensions.
- (A rectangular shape with 2:1 length to width ratio is recommended.)
- Shape: Circular
- Dimensions:  $l = N/A$  ft  $w = N/A$  ft diameter (if applicable) =  $27.1$  ft

Provide a detail showing the depth, length and width, or diameter (if applicable, and side slopes of the excavation).

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If the EXCAVATED INLET SEDIMENT TRAP is used, show the following information:

- Drainage area =  $0.83$  ac
- Required sediment storage =  $67 \text{ cy/ac} \times \text{drainage area}$
- Required sediment storage =  $67 \text{ cy/ac} \times 0.83 \text{ ac}$
- Required sediment storage =  $55.61 \text{ cy} = 1501.5 \text{ cf}$
- Assume excavation depth (minimum of 1.5 ft.) =  $2$  ft
- Assume slope of sides (shall not be steeper than 2:1) =  $2:1$
- Determine required surface area
- $S_{min} = \text{Required sediment storage} / \text{excavation depth}$
- $S_{min} = 55.61 \text{ cy} / 2 \text{ ft}$
- $S_{min} = 27.805 \text{ sq ft}$
- Assume shape of excavation and determine dimensions.
- (A rectangular shape with 2:1 length to width ratio is recommended.)
- Shape: Rectangular
- Dimensions:  $l = 27.4$  ft  $w = 27.4$  ft diameter (if applicable) =  $N/A$  ft

Provide a detail showing the depth, length and width, or diameter (if applicable, and side slopes of the excavation).

**Grady**

Project  
THE CENTER FOR  
ADVANCED SURGICAL  
SERVICES (CASS)  
80 GILMER STREET SE  
ATLANTA, GA 30303

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