

## VIII. Site Development (5)

### A. Excavation and embankment (e.g., cut and fill) CERM 80-1

Volume  $V$  ( $\text{yd}^3$ , CY)      Density ( $\text{lb}/\text{yd}^3$ ,  $\text{lb}/\text{CY}$ )

Bank (natural state)  $\rightarrow$  swell  $\rightarrow$  Loose (during transport)  $\rightarrow$  shrinkage  $\rightarrow$  Compacted (after compaction)  
(Borrow pit)

$$\text{Swell (\%)} = \frac{\text{Bank density}}{\text{Loose density}} - 1$$

$$\text{Load factor} = \frac{\text{Loose density}}{\text{Bank density}}$$

$$V_{\text{Loose}} = (1 + \text{swell \%}) V_{\text{Bank}}$$

$$\text{Load factor} = (1 + \text{swell \%})^{-1}$$

$$V_{\text{Bank}} = V_{\text{Loose}} \times \text{load factor}$$

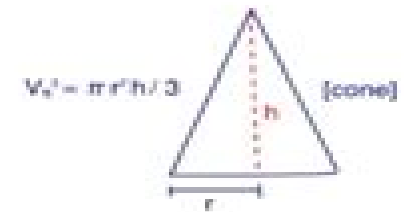
$$\text{Shrink (\%)} = 1 - \frac{\text{Bank density}}{\text{Compacted density}}$$

$$\text{Shrink factor} = 1 - \text{shrink \%}$$

$$V_{\text{Compacted}} = (1 - \text{shrink \%}) V_{\text{Bank}}$$

$$V_{\text{Compacted}} = V_{\text{Bank}} \times \text{shrink factor}$$

$$V_{\text{Bank}} = \frac{W_{\text{dry}}}{\text{Bank density}}$$



Average End Area Method      Pyramid Method (one end area = 0)      Prismoidal Method (irregular surface)

$$V_{\text{yd}} = \frac{L n (A_1 n^2 + A_2 n^2)}{2 (27 \frac{n^3}{\text{yd}^3})}$$

$$V = \frac{L A_{\text{base}}}{3}$$

$$V = \frac{L}{6} (A_1 + 4A_m + A_2)$$

$$V = \frac{A}{4} (\Sigma h_1 + 2 \Sigma h_2 + 3 \Sigma h_3 + 4 \Sigma h_4)$$

$h_1$  corner

$h_2$  side (none corner)

$h_3$  triangle

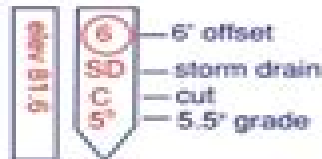
$h_4$  center

### B. Construction site layout and control CERM 81-3

Stake: locate & identify a point

$$\text{BM} + \text{BS} - \text{FS} = \text{TP}$$

$$V = H \tan \alpha$$



### C. Temporary and permanent soil erosion and sediment control (e.g., construction erosion control and permits, sediment transport, channel/outlet protection) CERM 80-10

Erosion: removal of soil from its original location by water, wind and/or gravity

Types of Erosion	Erosion Control	Sediment Transport	Channel Protection	Outlet Protection
Raindrop	mulch	silt fence	velocity: Manning's	rock apron
Sheet	vegetation	compost filter sock	grass	stilling basin
Rill	slope roughening	hay bales	turf mat	
Gully	channel protection	sediment basin	riprap	Permit
Channel		inlet protection	concrete	NPDES

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**Xiang Xie**



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## **Table of Contents Civil Transportation Pe Exam Equation Cheat Sheet**

1. Understanding the eBook Civil Transportation Pe Exam Equation Cheat Sheet
  - The Rise of Digital Reading Civil Transportation Pe Exam Equation Cheat Sheet
  - Advantages of eBooks Over Traditional Books
2. Identifying Civil Transportation Pe Exam Equation Cheat Sheet
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Civil Transportation Pe Exam Equation Cheat Sheet
  - User-Friendly Interface
4. Exploring eBook Recommendations from Civil Transportation Pe Exam Equation Cheat Sheet
  - Personalized Recommendations
  - Civil Transportation Pe Exam Equation Cheat Sheet User Reviews and Ratings
  - Civil Transportation Pe Exam Equation Cheat Sheet and Bestseller Lists
5. Accessing Civil Transportation Pe Exam Equation Cheat Sheet Free and Paid eBooks
  - Civil Transportation Pe Exam Equation Cheat Sheet Public Domain eBooks
  - Civil Transportation Pe Exam Equation Cheat Sheet eBook Subscription Services
  - Civil Transportation Pe Exam Equation Cheat Sheet Budget-Friendly Options
6. Navigating Civil Transportation Pe Exam Equation Cheat Sheet eBook Formats
  - ePub, PDF, MOBI, and More
  - Civil Transportation Pe Exam Equation Cheat Sheet Compatibility with Devices
  - Civil Transportation Pe Exam Equation Cheat Sheet Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Civil Transportation Pe Exam Equation Cheat Sheet
  - Highlighting and Note-Taking Civil Transportation Pe Exam Equation Cheat Sheet
  - Interactive Elements Civil Transportation Pe Exam Equation Cheat Sheet

8. Staying Engaged with Civil Transportation Pe Exam Equation Cheat Sheet
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Civil Transportation Pe Exam Equation Cheat Sheet
9. Balancing eBooks and Physical Books Civil Transportation Pe Exam Equation Cheat Sheet
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Civil Transportation Pe Exam Equation Cheat Sheet
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Civil Transportation Pe Exam Equation Cheat Sheet
  - Setting Reading Goals Civil Transportation Pe Exam Equation Cheat Sheet
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Civil Transportation Pe Exam Equation Cheat Sheet
  - Fact-Checking eBook Content of Civil Transportation Pe Exam Equation Cheat Sheet
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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