

VIII. Site Development (5)

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

Volume V (yd^3 , CY) Density (lb/yd^3 , lb/CY)

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

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

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

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

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

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

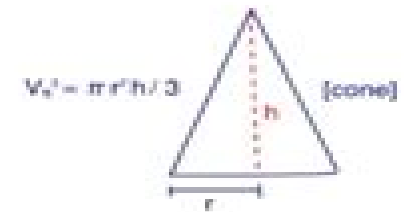
$$\text{Shrink (\%)} = 1 - \frac{\text{Bank density}}{\text{Compacted density}}$$

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

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

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

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



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

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

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

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

$$V = \frac{A}{4} (\Sigma h_1 + 2 \Sigma h_2 + 3 \Sigma h_3 + 4 \Sigma h_4) \quad h_1 \text{ corner} \quad h_2 \text{ side (none corner)} \quad h_3 \text{ triangle} \quad h_4 \text{ center}$$

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

Civil Transportation Pe Exam Equation Cheat Sheet

Norman R. Voigt



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Organizes all important formulas for fast access during the exam Corresponds to topics in the Civil Engineering Reference Manual 8th ed *Main Formulas and 5 Full Civil Engineering PE Practice Breadth Exams with Detailed Solutions* Ali Asadi,2021-09-25

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PE Civil Engineering, 2014 Civil Engineering Robert W. Stokes, James H. Banks, 2007 A focused review of the transportation topics of the PE exam for civil engineering and includes key concepts equations problems and solutions PE Civil Transportation Practice Exam Workbook School of PE, 2025-09-27 *Useful Equations for Hp 35s Calculator Using Equation Mode for the Civil Fundamentals of Engineering (Fe) Exam* Allan G. Abubakar, 2017-07-12 Store these 200 useful equations in your HP 35s calculator Keystrokes are provided for easy programming using Equation mode The selected equations are covered in the current FE Reference Handbook This book consists of 231 sample problems with step by step solutions designed to help you pass the Civil FE exam The sample problems will show you how to solve problems quickly easily and accurately using the stored equations This book gives you confidence and preparedness when you take the exam after you have familiarized the equations and solved all practice sample problems The equations in this book are relevant to the following subjects Mathematics Statics Dynamics Mechanics of Materials Fluid Mechanics Engineering Economics Geotechnical Engineering Structural Analysis Hydrology Water Resources Transportation Earthwork Formulas Using HP 35s calculator with useful equations programmed saves you time in the exam thus giving you ample time to review your work or tackle difficult questions

Sample Civil PE Exam Michael Frolov, Michael Frolov Pe, 2015-03-15 This book was written specifically for those taking the Civil Transportation PE Exam The multiple choice sample exam similar in format to the actual exam provides additional practice to help you succeed Features A 40 question Civil breadth exam A 40 question Civil Transportation depth exam covering all transportation knowledge areas per the NCEES specifications Detailed step by step solutions are included

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