WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
BRIDGE & STRUCTURES BRANCH

L-6906, SR-104, 51630

Project: Kingston Ferry Terminal Improvement Sheet No. 1 of 1 sheets

S. R. 104 Made by RW Check by Date 10-25-84 Supv.

10-22-84
Met w/ Larry Sullivan, Alex Young (Architect Section)
Alex Young designed the RE ret. wall w/ std plan type 1. He already over designed the wall using a 11' high wall → B = 5.5'

the actual ht of wall = 8.5' - 2.5' + 1' = 7' → q_{max} = 1.31 ksf (from Std Plan D-2d)

B = 3.5' for 7' high type 1 wall

actual soil pressure < 1.31 ksf

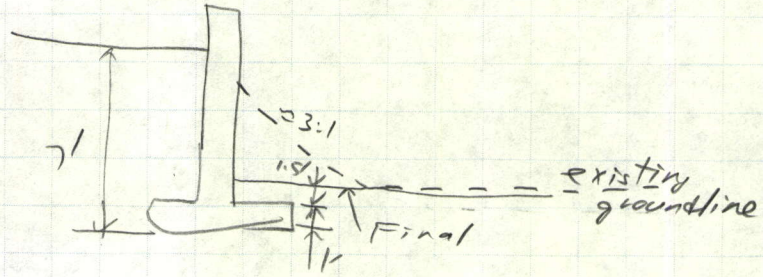
10-25-84
Hand auger 3 probe by 7/8" pipe w/ pts (H-1, H-2, H-3)
The foundation material is brown, moist sand hard packing

assuming N = 10

$q_a = 1.2(N-3)(B+1/2B)^2$ ksf (Meyerhoff)

$= 1.2(10-3)(5.5+1/2(5.5))^2$

$= 2.93$ ksf > 1.31 ksf OK



DOT FORM 232-007 REVISED 5/83 -636-

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