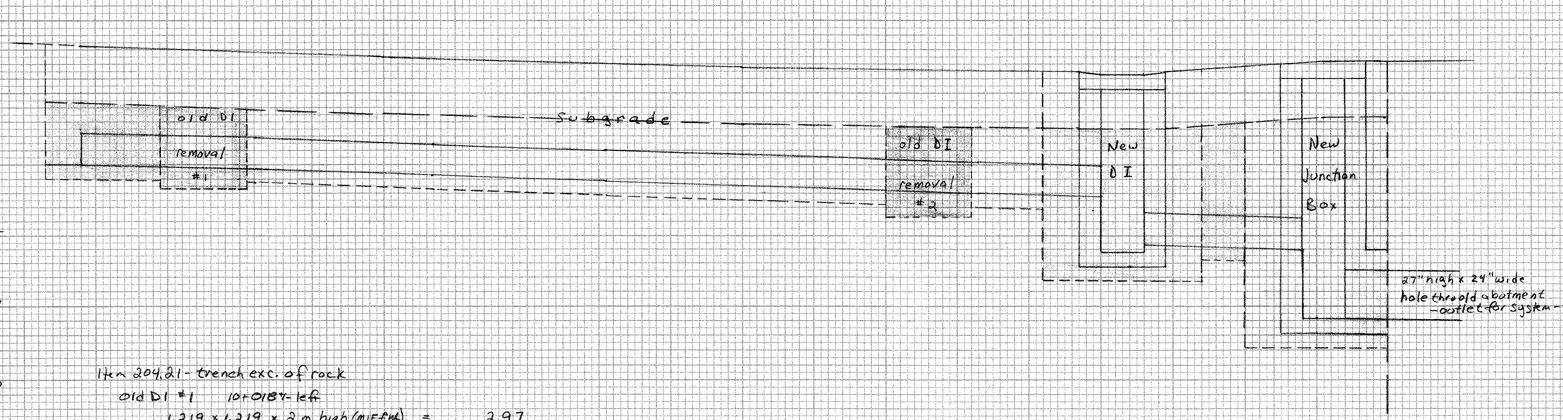
Brattleboro BHF 2000(17)
Sheet #2



Item 204.21 - trench exc. of rock

old DI #1 10+018 ± left

1.219 x 1.219 x 2 m high (MIFFM) = 2.97

old DI #2 10+036 ± left

1.219 x 1.219 x 2.2 m high (MIFFM) = 3.27

Item 204.20 - trench exc. of earth

New 18" RCP, approx 10+020 ~ 10+038 left

12.7 sm x 1.6 = 20.32

New DI, approx 10+039 left

4.8 sm x 2.2 = 10.56

New Junction Box, approx 10+043 left

6.5 sm x 2.2 = 14.30

New 18" RCP, approx 10+040 ~ 10+049 left

1.2 sm x 1.6 = 1.92

Item 204.30 - Granular Backfill for Structures

New 18" RCP, approx 10+020 ~ 10+038 left

trench earth minus volume culvert plus old DI volume

πr^2 x length + $\pi .225^2$ x 13.4 = 2.13 cm

20.32 - 2.13 x 1.71(#1) + 1.93(#2) = 21.83

New DI, approx 10+039 left

trench earth minus volume DI

10.56 - 3.20 = 7.36

New Junction Box, approx 10+043 left

trench earth minus volume jct Box

14.30 - 4.76 = 9.54

New 18" RCP, approx 10+040 ~ 10+049 left

trench earth minus volume pipe

πr^2 x length - $\pi .225^2$ x 0.6 = 0.10 cm

1.92 - 0.10 = 1.82

Abutment #1 Extension (See page 30135-10 for sketch/dimensions and also page 50134-4)

(3.40 x 0.50 x 0.84) + (0.82 x 0.50 x 0.91) = 1.80