existing connection

4" Pipe

Bdy limit Sewer Main on Bridge

SM #2

10' pipe

18'

Gravity Main

Subbase

Granular Backfill Structures

1.0'

Trench Earth HERE

3.0'

1.92'

10" Sewer

6"

6"

Approach Slab

Trench Earth 204.20 Line 0300

25' x 3.0' x 3.0' x 1/27 = 8.3 cy 10/9/10 cuts

Granular Backfill for Structures 204.30 Line 0310

25' x 3.0' x 1.0' x 1/27 = 2.8 cy 10/9/10 cuts

Crushed Stone bedding 629.54 Line 0340

See bk 18, page 37 7.6 ton cuts

4+50

Bdy limits Water Main on Bridge

24'

500

500.08

497.76

2.77

497.85

3.03

5.21

497.02

4+22

500

503.14

498.23

3.04

5.21

495.19

497.14

3.46

5.21

494.68

0

0+7.83

503.14

498.23

7.83'

494.60

MH

4+47±

Trench Earth Sewer

Sta	Area	Dist	Vol
4+22	14.43	25'	14.00 cy
4+47	15.83		

$\frac{\pi 7.83^2}{4} \times 7.83 = 151.07$ cy

$\frac{151.07}{27.0} = 11/8$ cuts

Trench Earth Water

Sta	Area	Dist	Vol
4+22±	16°	33'	25.83 cy
4+55±	23°		

11/09/09 CWG

Bdy limit Sewer Main on Bridge

Approach Slab

SM #1

10" Pipe

24" Sewer

2+71

2+50

2+45

2+32

2+25

Bdy limits Sewer Main on Bridge

Trench Earth 204.20 Line 0300

14' x 3.0' x 3.0' x 1/27 = 4.70 cy 10/9/10 cuts

Granular Backfill for Structures 204.3 Line 03

14' x 1.0' x 3.0' x 1/27 = 1.6 cy 10/9/10 cuts

Crushed Stone bedding 629.54 Line 0340

See bk 18 pg 37 4.2 ton

Trench Earth - (Sewer)

Sta	Area	Dist	Vol
2+71	14.59	26'	15.90 cy
2+45	18.44		

MH 2+42 8.59 cy

11/10/09

500

500.63

497.48

W

0'

5.21

497.85

Subbase

497.51

S

2.65'

5.21

497.11

2+71

Trench Earth - (Water)

Sta	Area	Dist	Vol
2+71	13.08	24'	18.04 cy
2+45	27.51		

11/5/09 CWG

500

502.56

498.06

5.28

492.78

498.17

S

3.54'

5.21

494.63

2+45 (and shower)

502.42

498.17

3.04'

495.13

0+7.83'

495.13