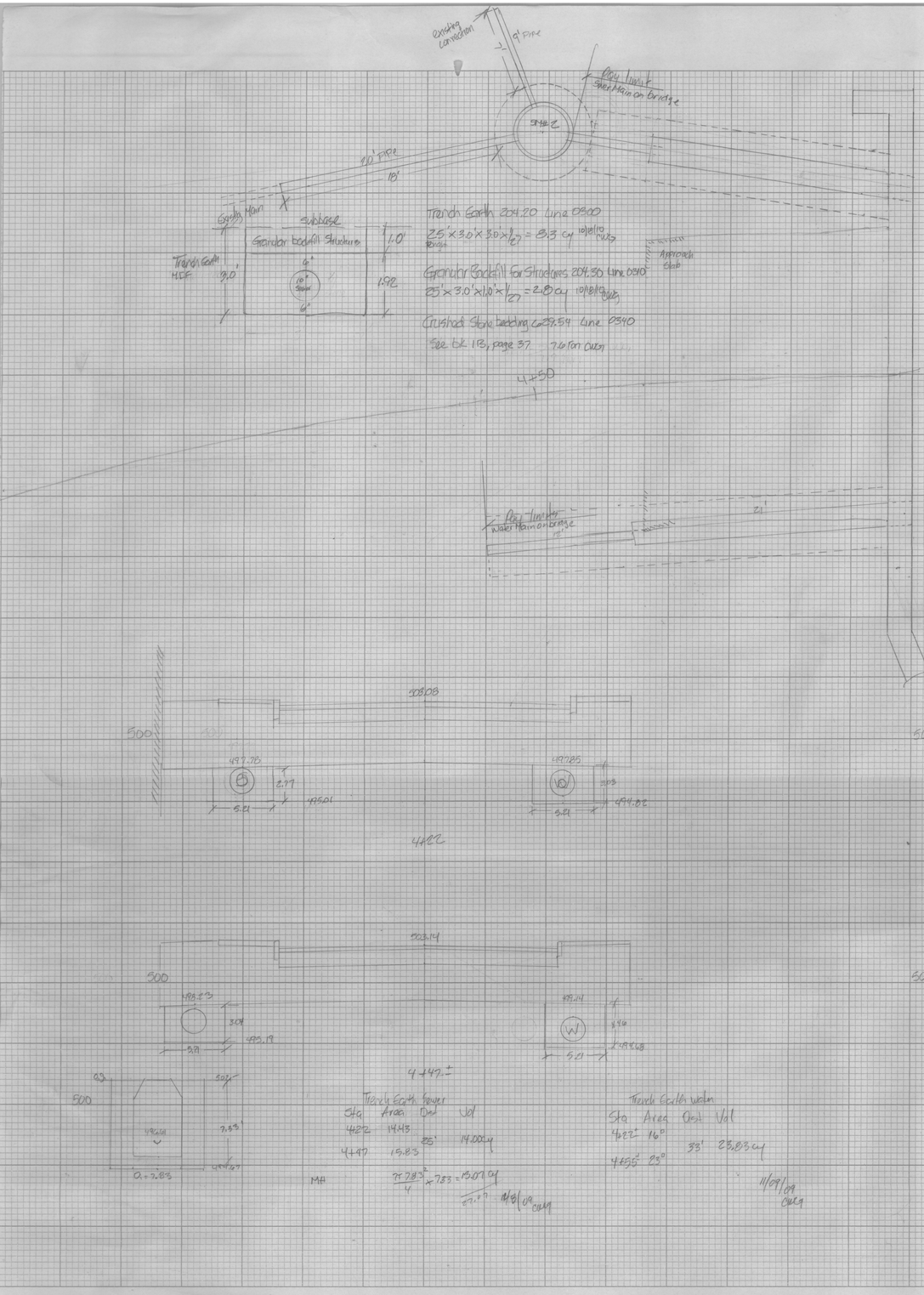
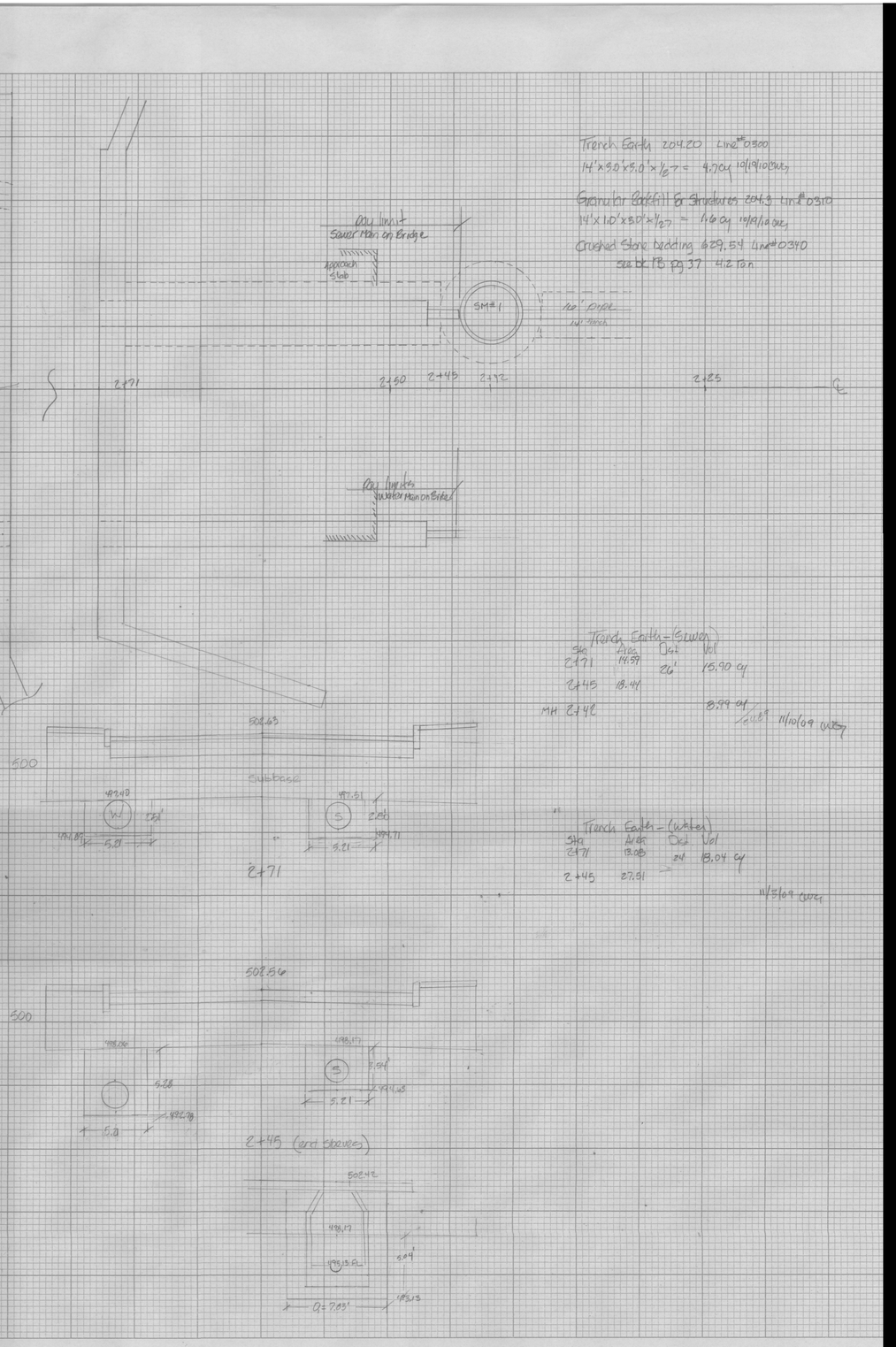

existing connection
4" Pipe
City limit Sewer Main on Bridge
SM#2
10' pipe
18'
Gravity Main
Subbase
Granular Backfill Structures
1.0'
Trench Earth H.E.
3.0'
1.9'
0°
10° Spool
6°
Approach Slab
Trench Earth 204.20 Line 0300
25' x 3.0' x 3.0' x 1/27 = 8.3 cy 10/9/10 cuts
Granular Backfill for Structures 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
City limits Water Main on Bridge
24'
500
500.08
497.76
497.85
5.21
497.85
5.21
499.02
4+22±
503.14
500
498.23
3.04'
5.21
495.19
497.14
3.46'
5.21
494.68
0.±7.83'
7.83'
494.60
4+47±
Trench Earth Sewer
Sta Area Dist Vol
4+22 14.43
25' 14.00 cy
4+47 15.83
π 7.83² / 4 x 7.83 = 15.07 cy
27.9° 11/8/09 cuts
MH
Trench Earth Water
Sta Area Dist Vol
4+22± 16°
33' 25.83 cy
4+55± 23°
11/09/09 cuts


City limit Sewer Main on Bridge
Approach Slab
SM#1
10' pipe
14' Trench
2+71
2+50
2+45
2+32
2+25
Trench Earth 204.20 Line 0300
14' x 3.0' x 3.0' x 1/27 = 4.7 cy 10/9/10 cuts
Granular Backfill for Structures 204.3 Line 0310
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
City limits Water Main on Bridge
Trench Earth - (Sewer)
Sta Area Dist Vol
2+71 14.59
26' 15.90 cy
2+45 18.44
MH 2+46 8.59 cy
11/10/09 cuts
500
500.63
Subbase
497.48
W
0.2'
497.85
5.21
497.85
S
2.6'
5.21
499.11
2+71
Trench Earth - (Water)
Sta Area Dist Vol
2+71 13.08
24' 18.04 cy
2+45 27.51
11/5/09 cuts
500
502.56
498.06
5.28
492.78
498.17
S
3.54'
5.21
496.48
2+45 (and shower)
502.42
498.17
3.04'
495.13
0.±7.83'
495.13