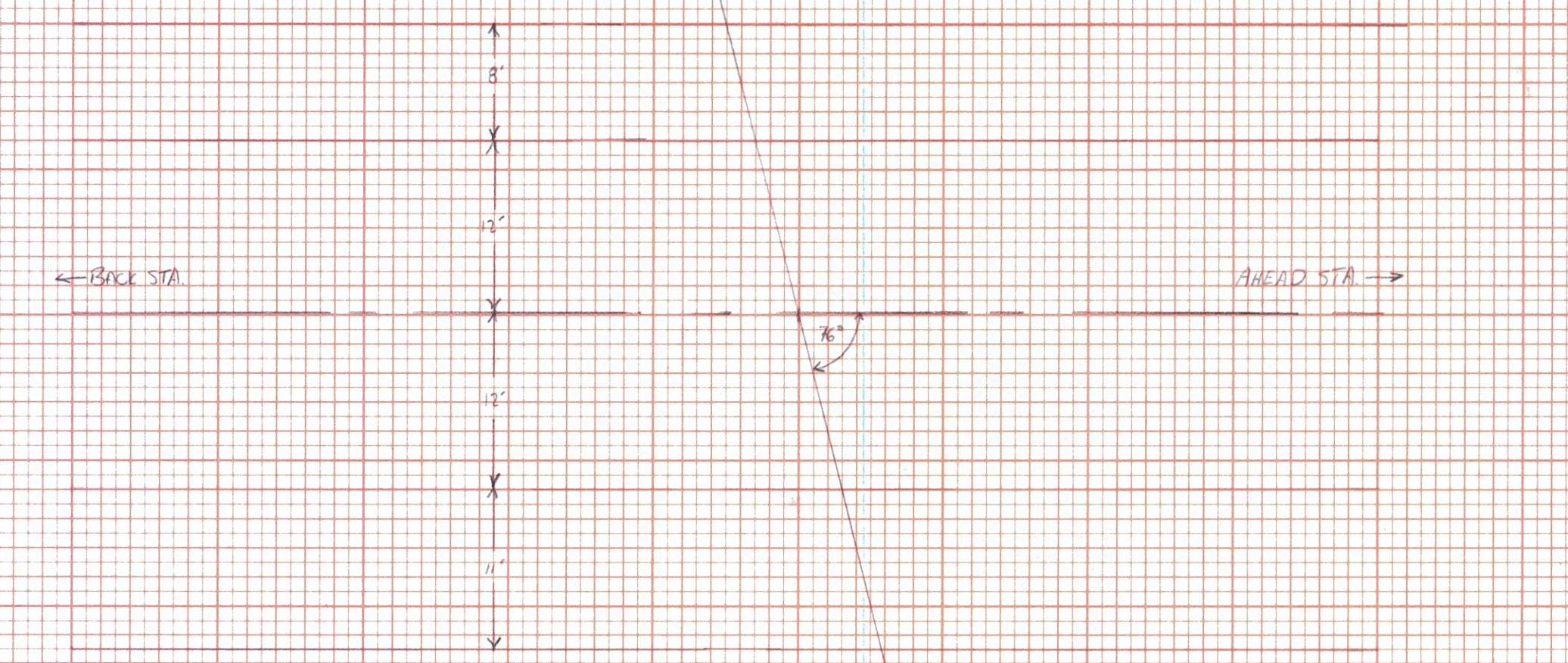
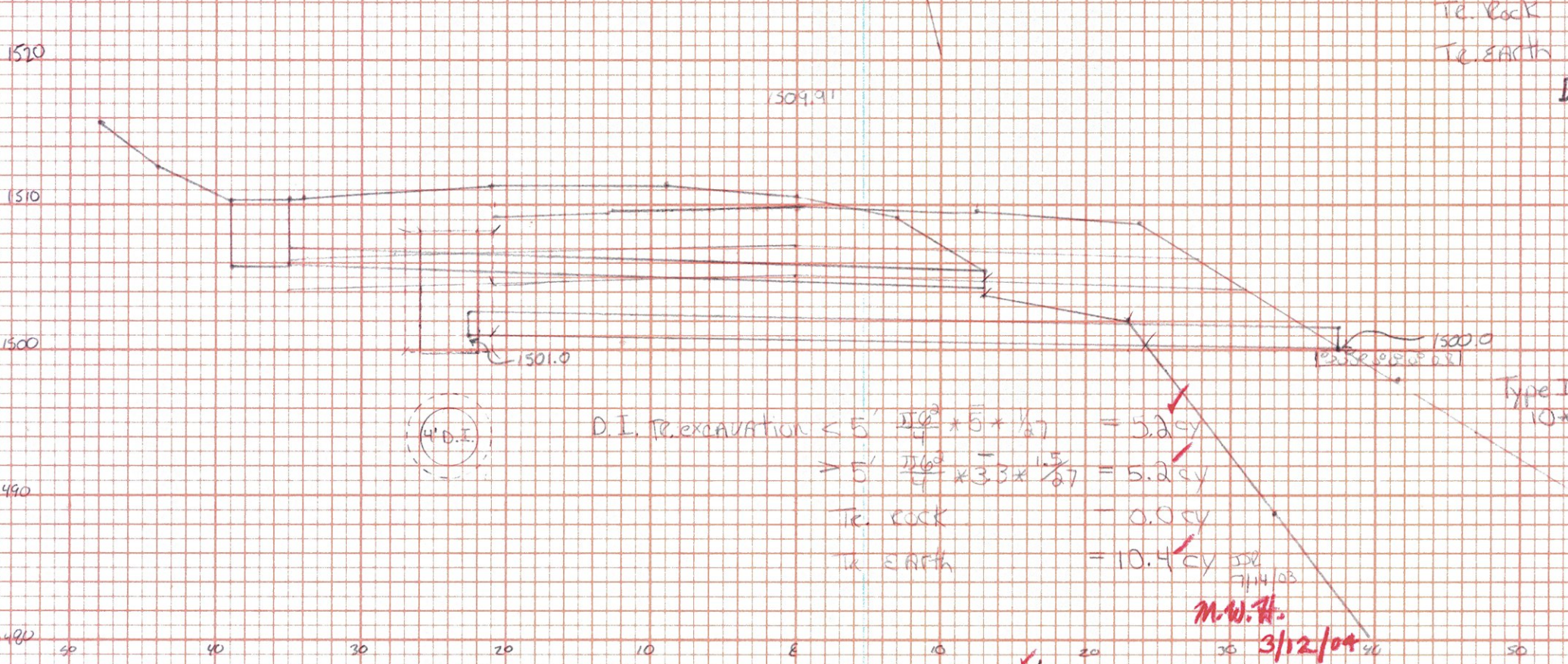


FINAL SURVEY
 BY: _____ DATE: _____
 BUFILED: _____
 PLOTTED: _____
 NOTE BOOK: _____
 ID: _____
 AREAS CHECKED: _____

ORIGINAL SURVEY
 BY: _____ DATE: _____
 BUFILED: _____
 PLOTTED: _____
 NOTE BOOK: _____
 ID: _____
 AREAS CHECKED: _____



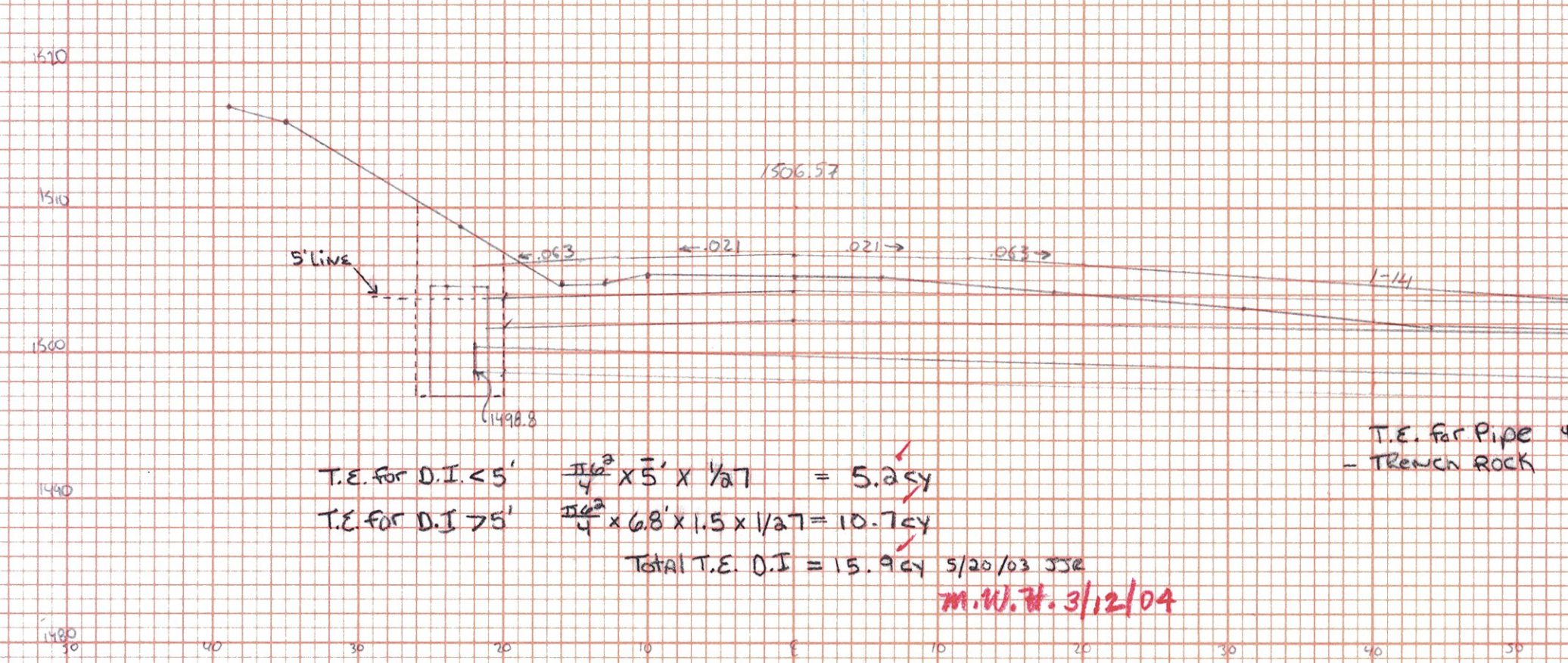
Pipe Tr. Excavation = $100' \times 3.5' \times 1/27 = 22.5 \text{ cy}$
 Tr. Rock = 0.0 cy
 Tr. Earth = 22.5 cy
 DI = $+10.4 \text{ cu. m.w. 3/12/04}$
 32.96 cy Total Tr. Earth



D.I. Excavation < 5' = $\frac{1}{2} \times 5' \times 1/27 = 2.25 \text{ cy}$
 > 5' = $\frac{1}{2} \times 3.3' \times 1/27 = 5.0 \text{ cy}$
 Tr. Rock = 0.0 cy
 Tr. Earth = 10.4 cy
 DI = $+10.4 \text{ cu. m.w. 3/12/04}$

Gran. Bkfl. for Struct.
 $204.80 \text{ Pipe } ((54 \times 3842.5) - (\frac{1000}{4} \times 54)) / 27 = 15.54 \text{ cu. m.w. 3/12/04}$
 O.I. $((\frac{1000}{4} \times 54) - (\frac{1000}{4} \times 83)) / 27 = 5.86 \text{ cu. m.w. 3/12/04}$
 Total = 20.35 cu. m.w. 3/12/04

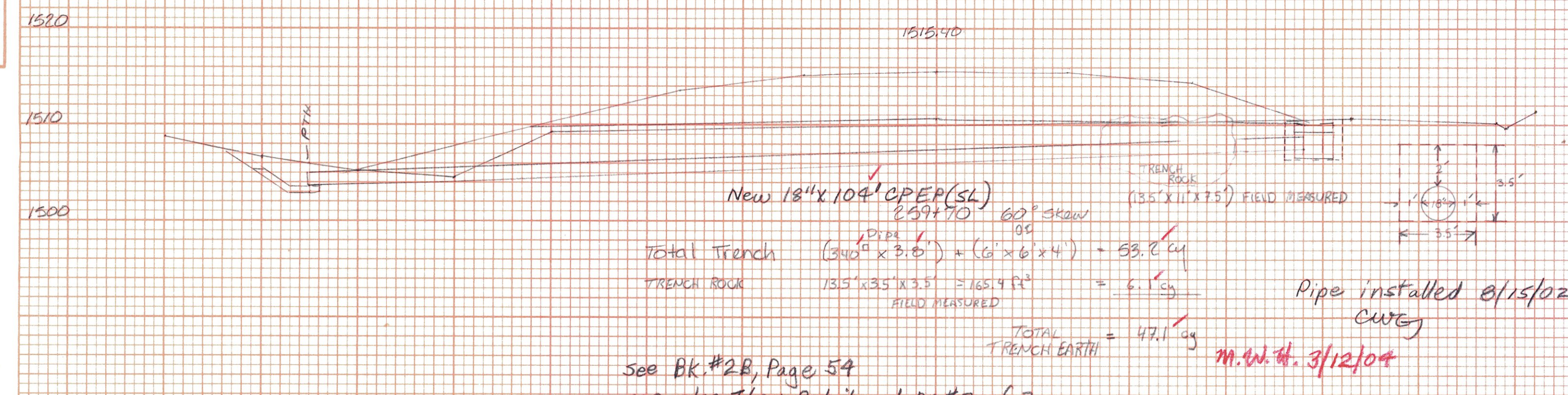
REPLACE 15" x 18" CPEP (6x) x 60' BK 7A pg 59
 5/20/03 JJK
 CEVISED 2/21/04
 see Dr. BK 20 pg 72 and Item Detail and Dr. Sb. #2 of 3



T.E. for D.I. < 5' = $\frac{1}{2} \times 5' \times 1/27 = 5.25 \text{ cy}$
 T.E. for D.I. > 5' = $\frac{1}{2} \times 6.8' \times 1.5 \times 1/27 = 10.7 \text{ cy}$
 Total T.E. O.I. = 15.96 cy
 DI = $+15.96 \text{ cu. m.w. 3/12/04}$

T.E. for Pipe 455' x 3.6' x 1/27 = 64.02 cy
 TRENCH ROCK = 1496.0
 Total T.E. = 64.02 cy
 DI = $+15.96 \text{ cu. m.w. 3/12/04}$

18' x 6' x 1/27 = 4.0 cy
 4 cy of 4' x 4' I
 m.w. 3/14/03



New 18" x 104' CPEP (SL) 259+70
 (135' x 11' x 7.5') FIELD MEASURED
 Total Trench $(240' \times 3.6') + (6' \times 6' \times 4) = 93.6 \text{ cy}$
 TRENCH ROCK $135' \times 3.5' \times 3.5' = 165.9 \text{ cu. m.w. 3/12/04}$
 TOTAL TRENCH EARTH = 47.1 cu
 Pipe installed 8/15/02

see BK #2B, Page 54
 see also Item Detail and Dr. #2 of 3

264+36 BK 7A pg 35
 New 18" x 116' CPEP
 see Dr. BK 28 pg 68 and Item Detail and Dr. Sb. #2 of 3

SEARSBURG - WILMINGTON
 Drainage sheet 18 of 27
 New 18" 259+70 Skewed (Not drawn)
 New 18" 262+80 Drive Pipe (Not drawn)
 Replace 15" 265+08 CMP Drive Pipe (Not drawn)
 New 18" 264+36
 Replace 15" CPEP
 SEARSBURG - WILMINGTON
 NETWORK (18)