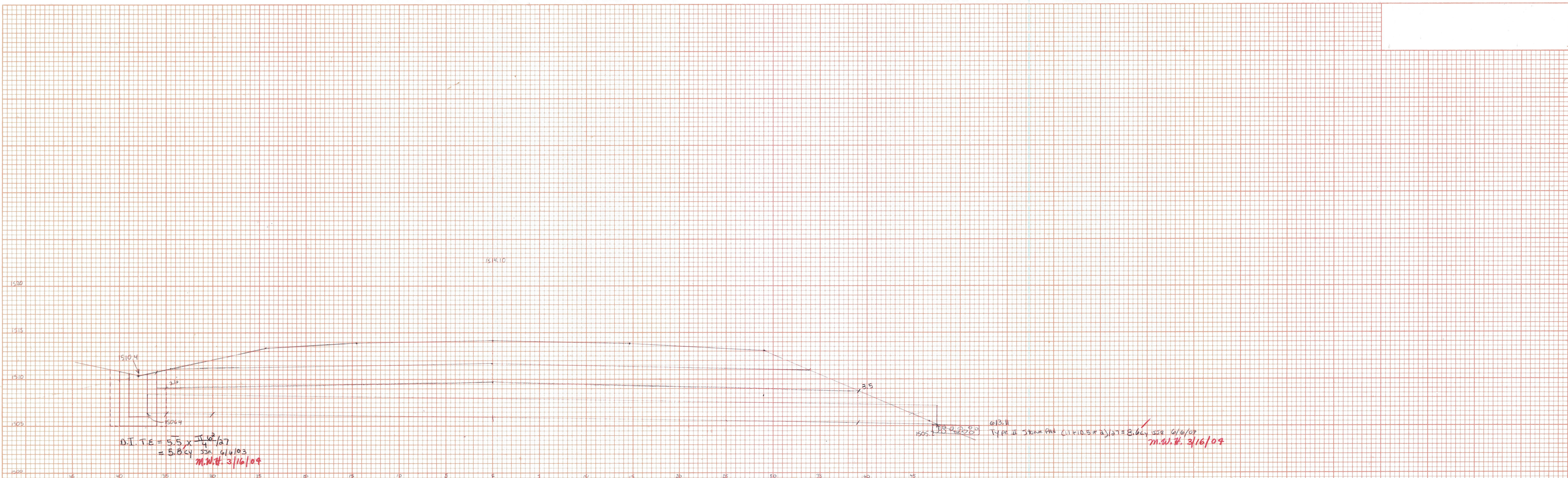


FINAL SURVEY BY DATE
 SURVEYED BY
 PLOTTED BY
 NOTE BOOK NO.
 AREAS CHECKED

ORIGINAL SURVEY BY DATE
 SURVEYED BY
 PLOTTED BY
 NOTE BOOK NO.
 AREAS CHECKED

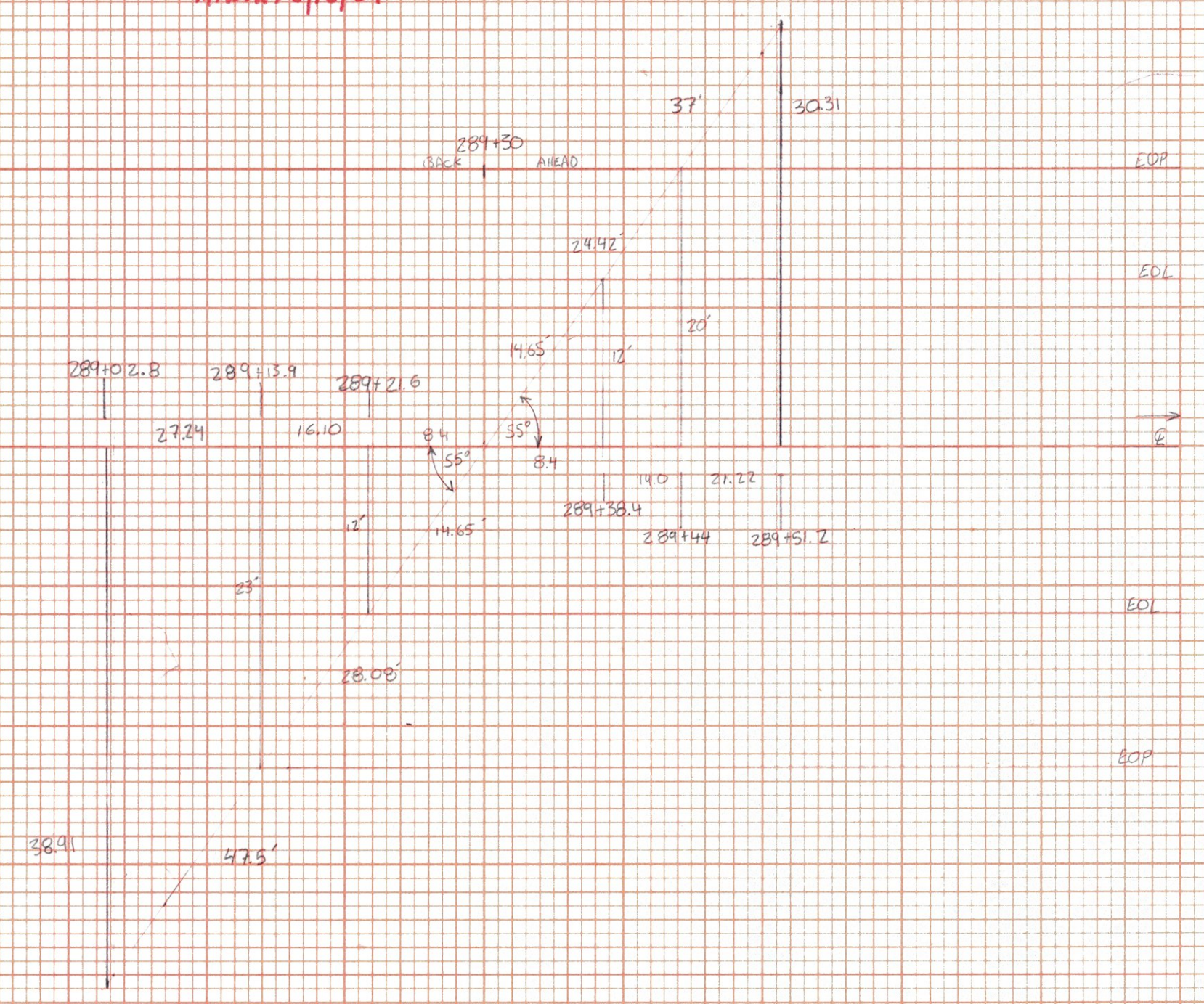


O.I. T.E. = $5.5 \times \frac{11.0^2}{2 \times 27}$
 = 5.8 c.y. JSE 6/16/03
 M.W.H. 3/16/04

204.30 cu. Backfill for Structures
 Pipe $((3.0 \times 4.3 \times 3) - (\frac{1}{2} \times 3.0 \times 3)) / 27 = 31.1$
 O.I. $((\frac{1}{2} \times 4.3 \times 3) - (\frac{1}{2} \times 3.0 \times 3)) / 27 = 3.2$
 Total = 34.3 c.y. JSE 6/16/03
 M.W.H. 3/16/04

289+30
 24" CPEP (3H) X 86 L.F.
 SKEWED 55° L.R.
 SEE DR. BK 28 pg 114 & Item Detail and Dr. Sh. #3 of 3

PIPE Trench Excavation = $D \times W \times L$
 = $(3.1 \times 4.3 \times 86) / 27$
 = 41.8 c.y. JSE 6/16/03
 Trench Rock = 6.2 c.y. = $15.5' \times 2.5' \times 4.3'$ M.W.H. 3/16/04
 Trench Earth = 36.3 c.y. JSE 6/16/03
 Total T.E. = 36.3 + 5.8 = 42.1 c.y. M.W.H. 3/16/04
 13.13 4-6-04



289+30
 47.5' RR
 37.0' Lt.

 84.5
 Inverse 1506.4
 OUT 1505.2
 1.2'
 84.5' = 1.42%
 28' / 20'

SEARSBURG - WILMINGTON
 DRAINAGE SHEET 26 of 27
 289+30 24" CPEP
 SKEWED 55° L.L.