

TRENCH ROCK
 $4 \times 4.2 \times 10 \div 27 = 6.2$
 $3/2 \times 4.2 \times 4 \div 27 = 2.5$
 8.7 CY

TRENCH EARTH
 $4.5 \times 30 \times 58 \div 27 = 337.5 \text{ CY}$
 $0.5' \text{ } 54 \times 5 \times 58 \div 27 = 82.5 \text{ CY}$
 $OVERS' \text{ } 1.5 (54 \times 5 \times 5) \div 27 = 67.5 \text{ CY}$
 $137.5 \text{ CY} + 112.5 \text{ CY} = 250 \text{ CY}$
 Rock - 8.7 CY
 Subtot. + 23.8 CY = 103.8 CY

CB TRENCHER
 $0.5' \text{ } 8 \times 8 \times 5' \div 27 = 11.3$
 $OVERS' \text{ } 8 \times 8 \times 1.5 \div 27 = 2.2 \text{ CY}$
 33.9 CY

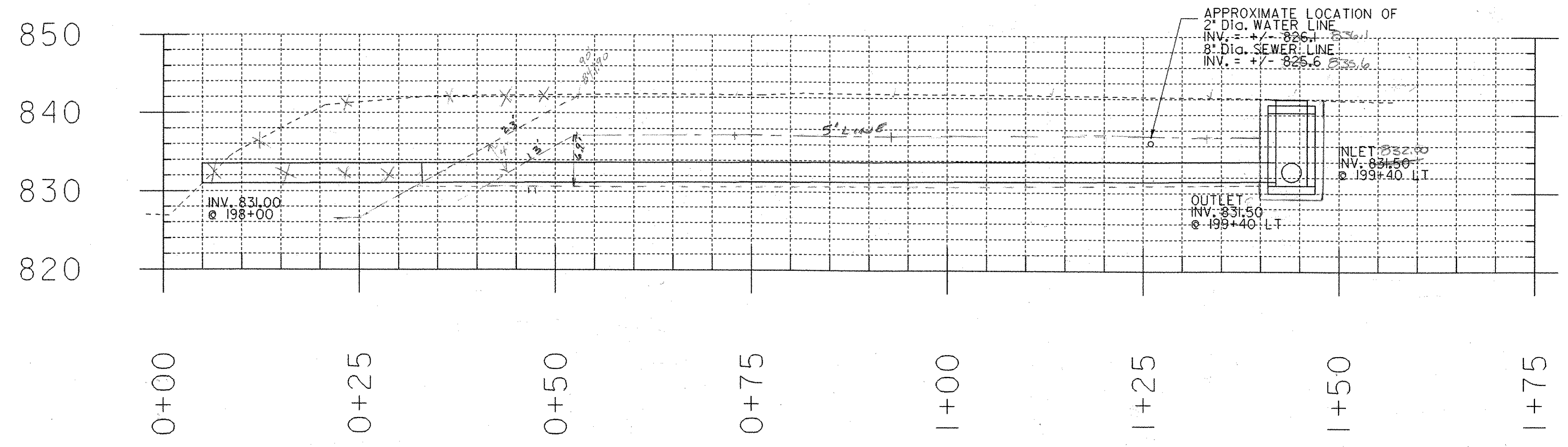
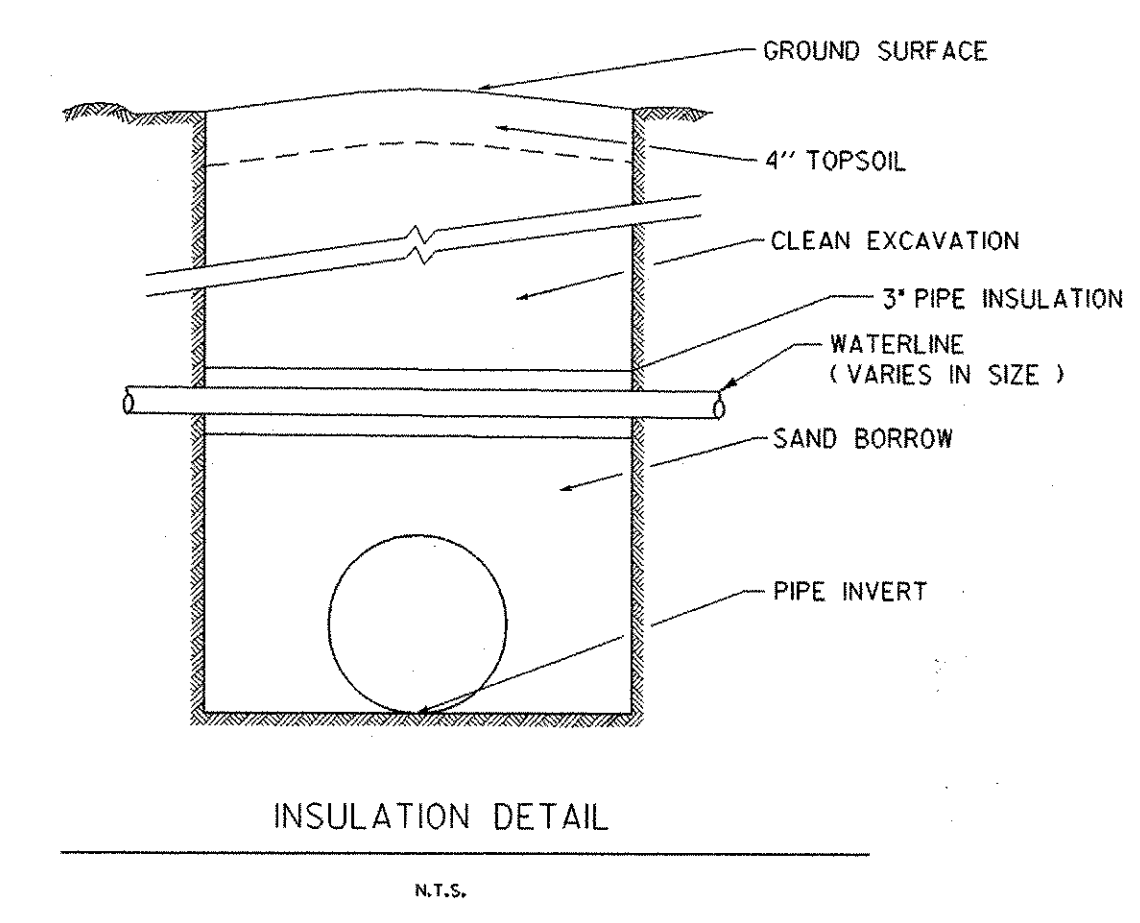
TRENCH TOT. = 141.2
 103.8 + 37.4 = 141.2

GRANULAR BACKFILL FOR STRUCTURES
 PIPE $54 \times 1 \times 5.5 \div 27 = 11.4 \text{ CY}$
 $8 \times 8 \times 1 \div 27 = 2.4 \text{ CY}$
 TOT. GBF = 13.8 CY

5. 01.06
 LTN

CB 200+40 DEPTH = 11.2'
 $(8 \times 8 \times 11.2) - (6 \times 6 \times 11.2) \div 27 = 11.6 \text{ CY}$ KRM 1-10-07

9.0 CY
 2.4 CY
 11.6 CY
 23.0 CY KRM 1-10-07



STA. 199+40 TO 199+40 LT.
 30" x 142' PCCSP w/
 6x6' C.B. WITH COVER ON INLET

TRENCH EARTH
 $4.5 \times 30 \times 142 \div 27 = 707 \text{ CY}$
 $0.5' \text{ } 86 \times 5 \times 142 \div 27 = 874 \text{ CY}$
 $OVERS' \text{ } 1.5 (86 \times 5 \times 5) \div 27 = 463 \text{ CY}$
 $OVERS' \text{ } 1/2 \times 6.9 \times 142 \div 27 \times 1.5 = 463 \text{ CY}$
 $1/2 \times 6.9 \times 142 \div 27 \times 1.5 = 463 \text{ CY}$

6x6' C.B.
 $0.5' \text{ } 8 \times 8 \times 5' \div 27 = 11.3 \text{ CY}$
 $OVERS' \text{ } 8 \times 8 \times 1.5 \div 27 = 2.4 \text{ CY}$

TOT. TR. EARTH = 1647.7 CY
 GRANULAR B.C. FOR STRUCTURES
 CB 199+40 $8 \times 8 \times 1 \div 27 = 2.4 \text{ CY}$
 $106 \times 5.5 \times 1 \div 27 = 21.6 \text{ CY}$
 $4.5 \times 30 \times 142 \div 27 = 707 \text{ CY}$
 24.6 CY
 LSN
 4.23.06

CB 199+40 DEPTH = 11.2'
 $(8 \times 8 \times 11.2) - (6 \times 6 \times 11.2) \div 27 = 11.4 \text{ CY}$ KRM 1-10-07

2.4
 17.7
 11.4
 31.5 CY KRM 1-10-07



PROJECT NAME: HARDWICK	PLOT DATE: 18-OCT-2005
PROJECT NUMBER: STP ST 030-3(4)	DRAWN BY: M. NUTTER
FILE NAME: d04e060xsix.dgn	CHECKED BY: A. BOMBARDIER
DESIGNED BY: M. NUTTER	SHEET 41 OF 63
IPARM NAME: de060xs32.i	