

15+74.00

CALCULATED AND DRAWN BY TBG 11/7/07
CPH 1/10/08

CALCULATED AND DRAWN BY TBG 10/19/07

DS 40
STRUCTURE T.E. < 5'
 $(3.93' + 3.96' + 4.43') / 3 * \pi (3.42')^2 = 150.90 \text{ CF}/27 = 5.59 \text{ CY}$
CALCS UPDATED 1/7/08

DR 39
PIPE T.E. < 5'
AREA (FROM CADD) = $92.04 \text{ SF} * 3.6' = 331.34 \text{ CF}/27 = 12.27 \text{ CY}$

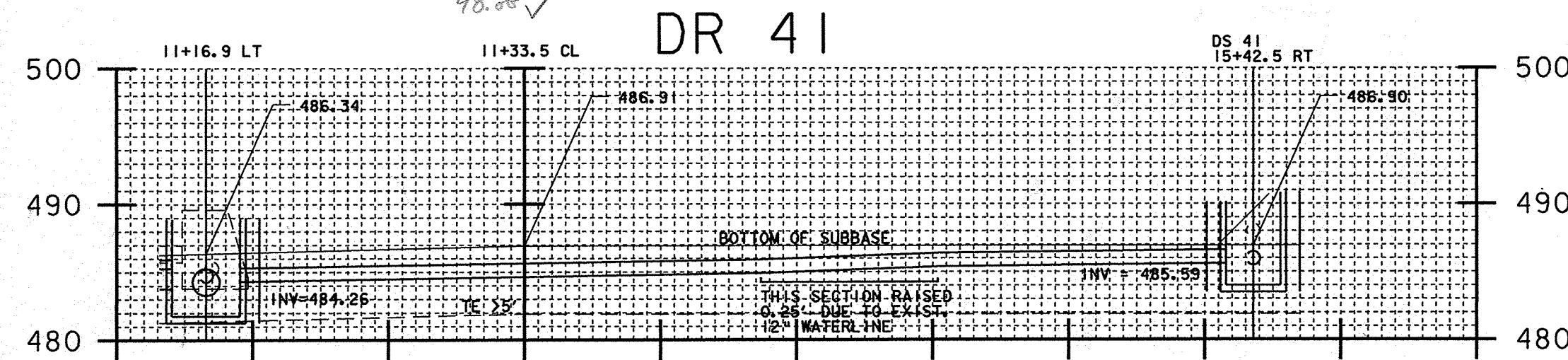
DS 39
STRUCTURE T.E. < 5'
 $(4.34' + 4.71') / 2 * \pi (3.42')^2 = 166.27 \text{ CF}/27 = 6.16 \text{ CY}$

DR 39 GRANULAR BACKFILL
 $(3.6' * .8' * 44.00') - [(\pi (.8')^2 / 2) * 44.00'] = 82.49 \text{ CF}/27 = 3.06 \text{ CY}$
USED 46.33 LF OF 18" CPEP

DR 38
PIPE T.E. < 5'
AREA (FROM CADD) = $34.93 \text{ SF} * 3.6' = 125.75 \text{ CF}/27 = 4.66 \text{ CY}$

DS 38
STRUCTURE T.E. < 5'
 $(4.35' + 4.25') / 2 * \pi (3.42')^2 = 158.00 \text{ CF}/27 = 5.85 \text{ CY}$

DR 38 GRANULAR BACKFILL
 $(3.6' * .8' * 16.00') - [(\pi (.8')^2 / 2) * 16.00'] = 30.00 \text{ CF}/27 = 1.11 \text{ CY}$
USED 18.00 LF OF 18" CPEP



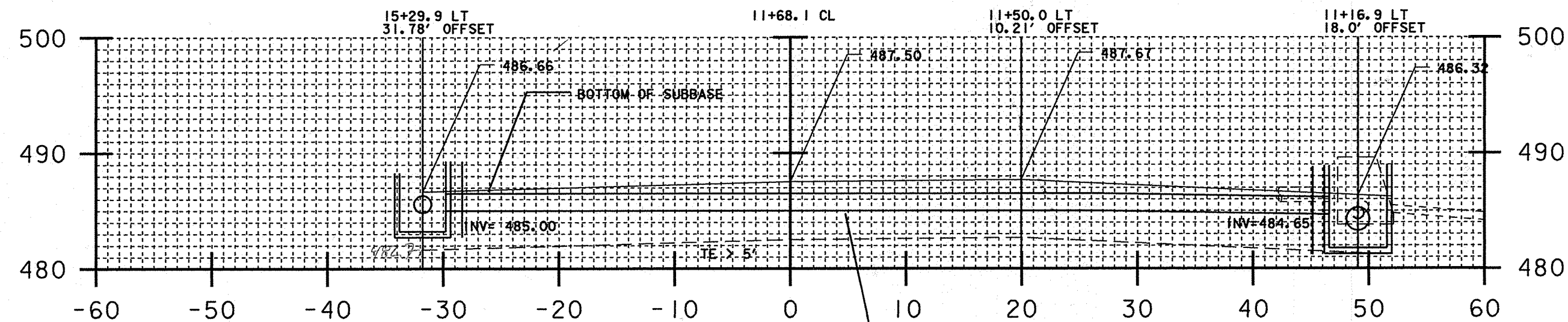
CALCULATED AND DRAWN BY TBG 11/9/07

DR 41
PIPE T.E. < 5'
AREA (FROM CADD) = $120.47 \text{ SF} * 3.0' = 361.41 \text{ CF}/27 = 13.39 \text{ CY}$

DS 41
STRUCTURE T.E. < 5'
 $(3.42' + 3.37') / 2 * \pi (3.42')^2 = 124.75 \text{ CF}/27 = 4.62 \text{ CY}$

DR 41 GRANULAR BACKFILL
 $(3.0' * .5' * 71.70') - [(\pi (.5')^2 / 2) * 71.70'] = 79.39 \text{ CF}/27 = 2.94 \text{ CY}$
USED 72.67 LF OF 12" PVC (RELAY)

DR 40



CALCULATED AND DRAWN BY TBG 1/7/08

DR 40
PIPE T.E. < 5'
AREA (FROM CADD) = $167.26 \text{ SF} * 3.6' = 602.14 \text{ CF}/27 = 22.30 \text{ CY}$

DR 40 GRANULAR BACKFILL
 $(3.6' * .8' * 75.50') - [(\pi (.8')^2 / 2) * 75.50'] = 141.54 \text{ CF}/27 = 5.24 \text{ CY}$
USED 78.58 LF OF 18" PVC (RELAY)

SCHOOL ENTRANCE

PROJECT NAME: HARTFORD
PROJECT NUMBER: RS 0113(40)

FILE NAME: \$\$\$FILENAME\$\$\$
PROJECT LEADER: KEN UPMAL
DESIGNED BY: K. ISHIKURA
E. ATKINS
PLOT DATE: 08-JAN-2008
DRAWN BY: E. ATKINS
CHECKED BY: K. ISHIKURA
SHEET 239 OF 239