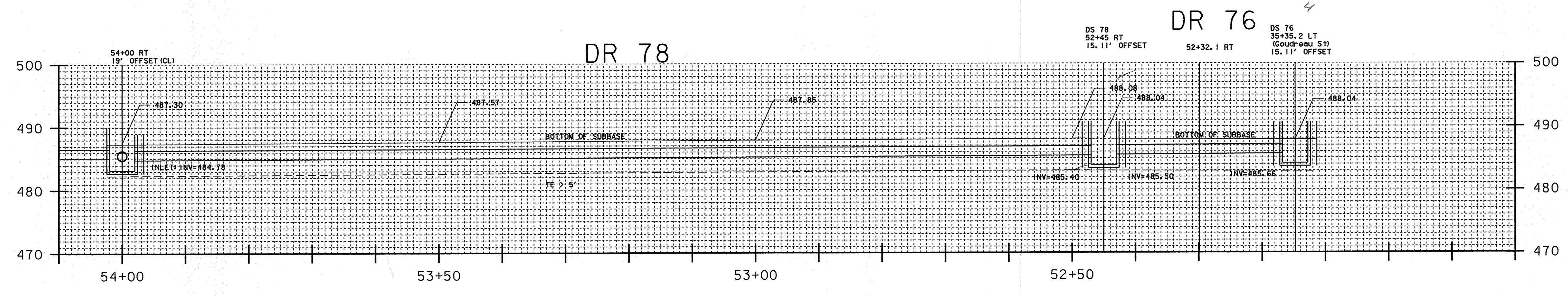


DR 79  
 PIPE T.E. < 5'  
 AREA (FROM CADD) = 75.64 SF \* 3.6' = 272.30 CF/27 = 10.09 CY  
 DS 79  
 STRUCTURE T.E. < 5'  
 $(4.06 + 4.17) / 2 * \text{PI} (3.42')^2 = 151.21 \text{ CF/27} = 5.60 \text{ CY}$   
 DR 79 GRANULAR BACKFILL  
 $(3.6' * .8' * 33.75') - [(PI (.8')^2 / 2) * 33.75'] = 63.27 \text{ CF/27} = 2.34 \text{ CY}$   
 USED 37.25 LF OF 18" CPEP

CALCULATED AND DRAWN BY TBG 10/31/07  
 ✓ CP 1/1/08  
 ✓ TBG 1/22/08



CALCULATED AND DRAWN BY TBG 9/27/07  
 ✓ CP 1/1/08  
 ✓ TBG 1-22-08

DR 78  
 PIPE T.E. < 5'  
 AREA (FROM CADD) = 387.00 SF \* 3.6' = 1393.21 CF/27 = 51.60 CY  
 DS 78  
 STRUCTURE T.E. < 5'  
 $(4.75 + 4.58) / 2 * \text{PI} (3.45')^2 = 174.44 \text{ CF/27} = 6.46 \text{ CY}$   
 DR 78 GRANULAR BACKFILL  
 $(3.6' * .8' * 150.17') - [(PI (.8')^2 / 2) * 150.17'] = 281.52 \text{ CF/27} = 10.43 \text{ CY}$   
 UPDATED 1/3/07 (DAILY INCORRECT)  
 USED 152.25 LF OF 18" CPEP

DR 76  
 PIPE T.E. < 5'  
 AREA (FROM CADD) = 55.12 SF \* 3.6' = 198.43 CF/27 = 7.35 CY  
 DS 76  
 STRUCTURE T.E. < 5'  
 $(4.21 + 4.28) / 2 * \text{PI} (3.42')^2 = 158.92 \text{ CF/27} = 5.89 \text{ CY}$   
 DR 76 GRANULAR BACKFILL  
 $(3.6' * .8' * 25.95') - [(PI (.8')^2 / 2) * 25.95'] = 48.65 \text{ CF/27} = 1.80 \text{ CY}$   
 UPDATED 1/3/07 (DAILY INCORRECT)  
 USED 27.00 LF OF 18" CPEP

## U.S. ROUTE 5 HARTFORD AVENUE

PROJECT NAME: HARTFORD	
PROJECT NUMBER: RS 0113(40)	
FILE NAME: ****FILENAME***	PLOT DATE: 03-JAN-2008
PROJECT LEADER: KEN UPMAL	DRAWN BY: E. ATKINS
DESIGNED BY: K. ISHIKURA	CHECKED BY: K. ISHIKURA
E. ATKINS	SHEET 217 OF 239