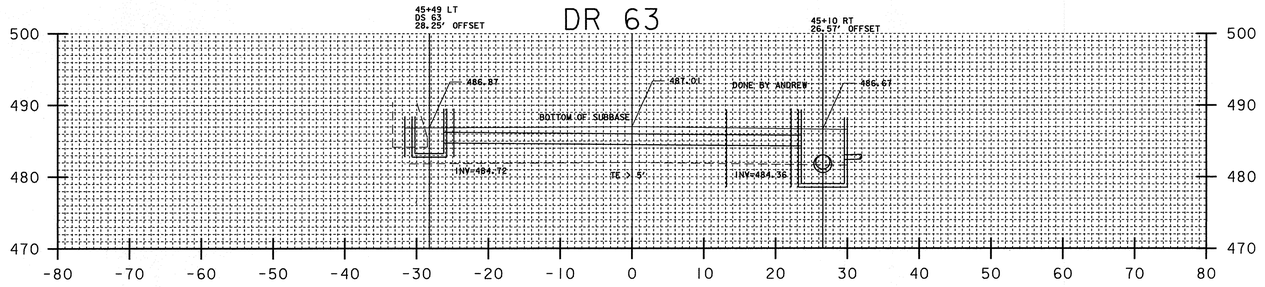


45+29.3 CL

CALCULATED AND DRAWN BY TBG 10/2/07
✓ CPH 01/14/08
✓ TBG 01/22/08

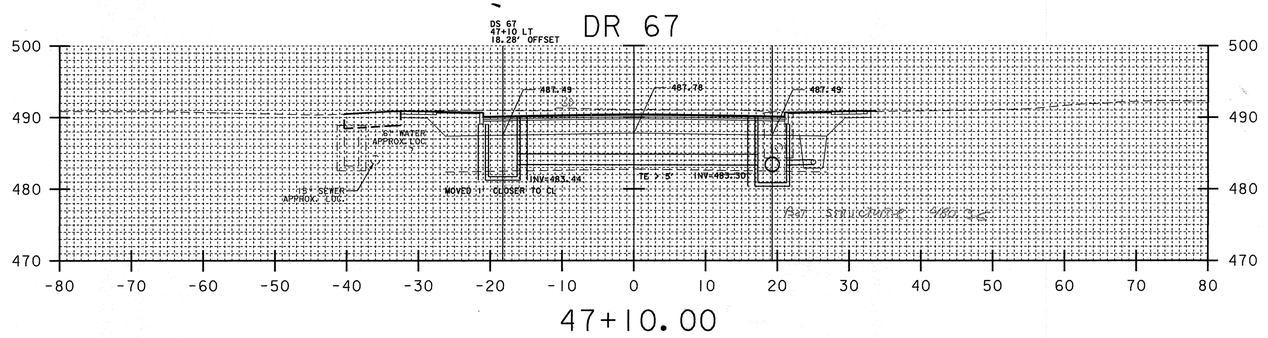
DR 63

PIPE T.E. < 5'
AREA (FROM CADD) = 112.69 SF * ~~3.6'~~ 3.75 =405.68 CF/27 = ~~15.01~~ 15.65 CY (UPDATED 1/3/7)

DS 63

STRUCTURE T.E. < 5'
(4.02+ 4.13)/2 * PI(3.46')² = 153.26 CF/27 = 5.68 CY
409 3760

DR 63 GRANULAR BACKFILL
~~(3.6'~~ 3.75 ~~* .8'~~ .875 * 48.97') -[((PI(~~.8'~~ .875²/2) *48.97')]= 91.80 CF/27 = ~~3.40~~ 3.77 CY (UPDATED 1/3/7)
USED 51.33 LF OF 18" CPEP 52 1.875 (58.85)



47+10.00

CALCULATED AND DRAWN BY TBG 10/2/07
✓ CPH 01/17/08

DR 67

PIPE T.E. < 5'
AREA (FROM CADD) = 132.23 SF * ~~3.6'~~ 3.75 =476.03 CF/27 = ~~17.63~~ 18.37 CY (UPDATED 1/3/07)

DS 67

STRUCTURE T.E. < 5'
5' * PI(3.46')² = 188.05 CF/27 = 6.96 CY

STRUCTURE T.E. > 5'
1.5[((~~1.20~~ 1.31' + ~~1.31'~~ 1.20')/2) * PI(3.46')²] = ~~10.80~~ 53.57 CF/27 = ~~2.62~~ 1.98 CY
TOT= ~~9.58~~ 8.94 CY

DR 67 GRANULAR BACKFILL
(3.6' * .8' * 32.72') -[((PI(~~.8'~~ .875²/2) *32.72')]= 61.34 CF/27 = 2.27 CY (UPDATED 1/3/07)
USED 35.00 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 211 OF 239

SHEET #26