

29+20.00

ITEM	QUANTITY	DATE PAID
601.2615	34LF	10/8 (ASSTALBAQ 18/3)
204.20	38.79CY	RT
204.30	2.59	"
604.20 (4)	.75	"

DR 17  
 PIPE T.E. < 5'  
 AREA (FROM CADD) = 6.48 SF \* 3.75' = 24.30 CF/27 = **0.9** CY  
 DS 17  
 STRUCTURE T.E. < 5'  
 $5' * \text{PI}(4.50')^2 = 318.09 \text{ CF/27} = 11.78 \text{ CY}$   
 STRUCTURE T.E. > 5'  
 $1.5 [ (2.69' + 0.41') / 2 ] * \text{PI}(4.50')^2 = 98.61 \text{ CF/27} = 3.65 \text{ CY}$   
 TOT = **15.43** CY

DR 18  
 PIPE T.E. < 5'  
 AREA (FROM CADD) = 64.09 SF \* 3.75' = 240.34 CF/27 = **8.90** CY  
 DS 18  
 STRUCTURE T.E. < 5'  
 $(.83 + .66 + 2.35 + 4.07 + 3.81) / 5 * \text{PI}(3.42')^2 = 86.13 \text{ CF/27} = 3.19 \text{ CY}$   
 DR 19 GRANULAR BACKFILL  
 $(3.75' * .88' * 48.7') - [ (\text{PI}(.88')^2 / 2) * 48.7' ] = 101.47 \text{ CF/27} = 3.76 \text{ CY}$

DR 19  
 PIPE T.E. < 5'  
 AREA (FROM CADD) = 65.34 SF \* 3.75' = 245.03 CF/27 = **9.08** CY  
 DS 19  
 STRUCTURE T.E. < 5'  
 $5' * \text{PI}(4.50')^2 = 318.09 \text{ CF/27} = 11.78 \text{ CY}$   
 STRUCTURE T.E. > 5'  
 $1.5 [ (0.72' + 1.21' + 3.29') / 3 ] * \text{PI}(4.50')^2 = 166.04 \text{ CF/27} = 6.15 \text{ CY}$   
 TOT = **17.93** CY

DR 19 GRANULAR BACKFILL  
 $(3.75' * .88' * 12.0') - [ (\text{PI}(.88')^2 / 2) * 12.0' ] = 25.00 \text{ CF/27} = 0.93 \text{ CY}$

ITEM	QUANTITY	DATE PAID
601.2615	10 LF	
204.20	3CY ESTIMATED	03/09/09
204.30	1CY ESTIMATED	
604.20(0210)	.75 BR	

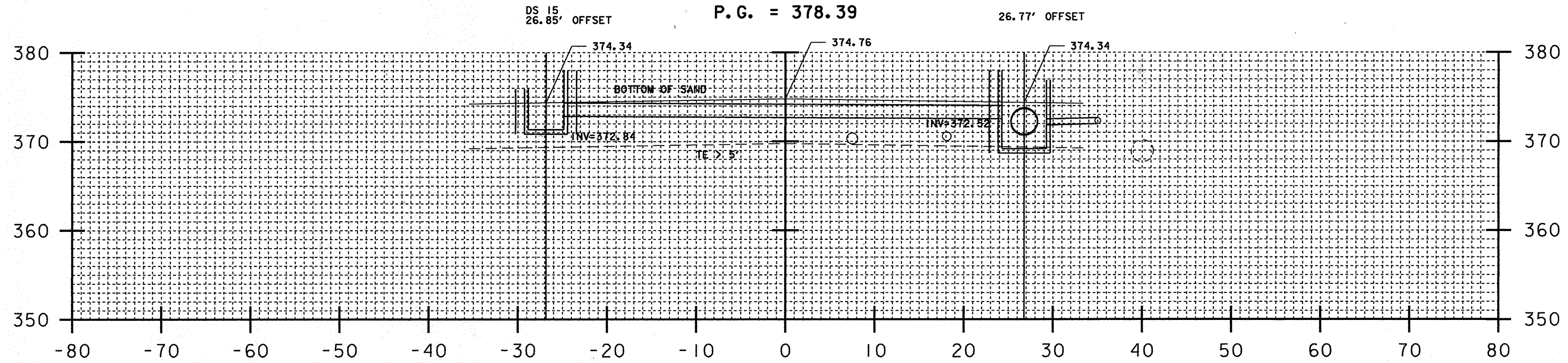
DR 18

ITEM	QUANTITY	DATE PAID
601.2615	20LF	10/3/08 RT
204.20	6CY	" RT
204.30	1CY	" RT
601.2615	30LF	10/27/08 "
TE 204.20	6.09	" "
885 204.20	2.76	" "
204.20	.75	" "

DR 19 GRANULAR BACKFILL  
 $(3.75' * .88' * 33.5') - [ (\text{PI}(.88')^2 / 2) * 33.5' ] = 69.80 \text{ CF/27} = 2.59 \text{ CY}$

DR 15

P.G. = 378.39



26+70.00

DR 15

ITEM	QUANTITY	DATE PAID
601.2615	20LF	10/7/08 RT
204.20	6CY	10/7/08 RT
204.30	1.5	10/7/08 RT
601.2615	31LF	10/27/08 RT
TE 204.20	11.18CY	" "
204.30	2.23	" "
604.20	.75	" "

DR 15  
 PIPE T.E. < 5'  
 AREA (FROM CADD) = 87.84 SF \* 3.75' = 329.40 CF/27 = **12.42** CY  
 DS 15  
 STRUCTURE T.E. < 5'  
 $3.50' * \text{PI}(3.42')^2 = 128.61 \text{ CF/27} = 4.76 \text{ CY}$

DR 15 GRANULAR BACKFILL  
 $(3.75' * .88' * 48.30') - [ (\text{PI}(.88')^2 / 2) * 48.30' ] = 100.64 \text{ CF/27} = 3.73 \text{ CY}$

SHEET #9

PROJECT NAME: HARTFORD	PLOT DATE: 01-FEB-2008
PROJECT NUMBER: RS 0113(40)	DRAWN BY: E. ATKINS
FILE NAME: ****FILENAME****	CHECKED BY: K. ISHIKURA
PROJECT LEADER: KEN UPMAL	SHEET 220 OF 239
DESIGNED BY: K. ISHIKURA	
E. ATKINS	