Metric

220

STA 20+037 7m LT - 20+037 4m RT
11 M - (

219

TH29

218

217

216

220 m

STA 20+037
204.20 TRENCH EXCAVATION OF EARTH
DI = 4' 1.219 m + (1.5x2) = 2.219 m
FIRST 1.5M @ 1.0 PAY FACTOR ∅ = 2.219/2 = 1.11 = RADIUS
A = πr^2 = $\pi(1.11)^2$ = 3.87 m^2
V = $\pi r^2 h$ (3.87 m^2 x 1.5) = 5.81 CM
BELOW 1.5m @ 1.5 PAY FACTOR
AVE DEPTH = 0.31 + 0.28 + 0.42 = (1.01/3) = 0.337 m
V = $\pi r^2 h$ = (3.87 x 0.337 x 1.5) = 1.96 CM
TOTAL = 5.81 + 1.96 = 7.77 cm ∅A 11/26/07

STA 20+028
204.20 TRENCH EXCAVATION OF EARTH
DI = 4' = 1.219 m + (1.5x2) = 2.219 m
FIRST 1.5M @ 1.0 PAY FACTOR ∅ = 2.219/2 = 1.11 = RADIUS
A = πr^2 = $\pi(1.11)^2$ = 3.87 m^2
V = $\pi r^2 h$ = (3.87 m^2 x 1.5m) = 5.81 CM
BELOW 1.5m @ 1.5 PAY FACTOR
AVE DEPTH = (0 + 0 + .3)/3 = 0.1 m
(3.87 m^2 x 0.1m x 1.5) = 0.581 CM
TOTAL = 5.81 + 0.581 = 6.39 cm ∅A 11/26/07

219 m

AVE HT ABOVE PIPE = 0.85 M

Common Exc. Limit

CHECK EXCAVATION OUT

219.03

AVE DEPTH: 2.910

T.E: DI - 2.2x2.2x1.5 = 26
Ap = - 1.45 x 7.8 x 0.85+1.07 / 2 = 11.42
18.68 CM. JGC 10/31/08

218 m

217.700

217.555

STA 20+028 - 20+037
AVE HT FROM BOTTOM OF PIPE = (1.40 + 1.51 + 1.40 + 1.33 + 1.34 + 1.32 + 1.29 + 1.19) = 1.36 M AVE

217.860

219.03
2.0751
1.51 = depth

218

217 m

STA 20+037

STA 20+028 - 20+037 4.2 M RT

VOLUME = LXWXH
AVE HT = 1.36M
WIDTH = 1.5m
LENGTH = 8m
(1.36x1.5x8) = 13.87 CM TOTAL
∅A 11/26/07

217

1.260

PROJECT: CAVENDISH	PROJECT NO.: BRO 1442(23)
DESIGN FILE NAME: DRAINAGE SHEET #1 IPARM FILE NAME:	PLOT DATE: 01-MAY-1996
DRAWN BY: R. RICHERT CKD BY J. COUTURE	
	SHEET: 49B OF

218537 - DRAIN EXCAV

1-100 Another Block