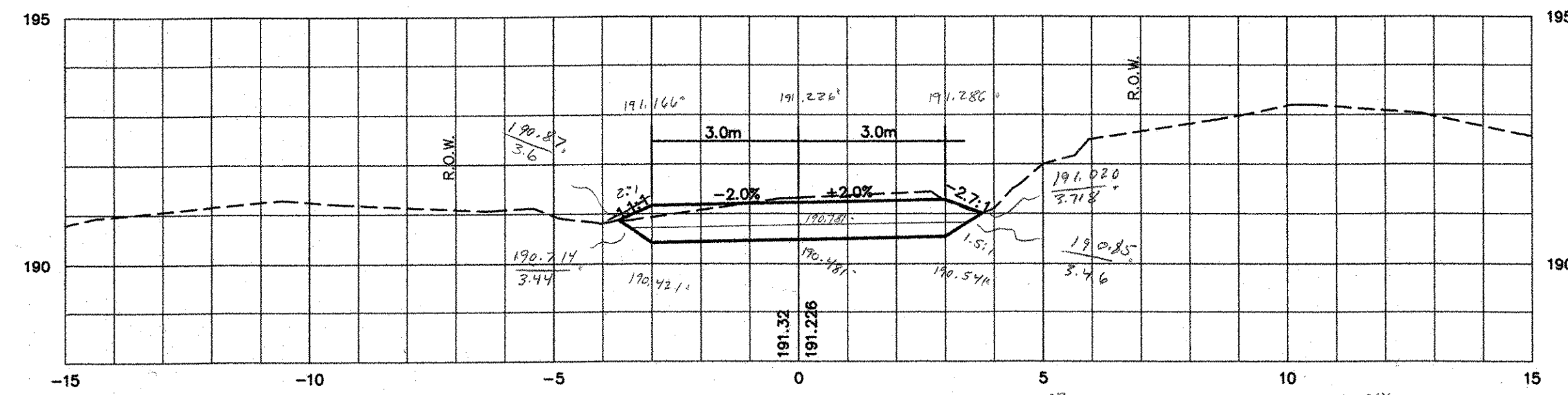


ZERO @ 8+030
ZERO SWP @ 8+025'

PAVEMENT = 6.0m x 0.145m = 0.872 sm²
FINE-GRADE = 6.90 m



8+020
ZERO LEDGE @ 8+018

190.781 - 0.02x = 190.421 + 0.647x
0.3 = 0.667x
0.44 = x

190.811 + 0.02x = 190.541 + 0.667x
0.3 = 0.647x
1.464 = x

191.286 - 0.37x = 190.541 + 0.667x
0.745 = 1.037x
x = 0.714 m

ITEM 203.16 SOLID ROCK EXCAV.

STA	DIST	AREA	VOL
2.6			
3.6	189.043	0	5.377
0	189.115		5.824
8+010	5	2.1293	
		2.1588	
8+018	8	0	8.519
			8.635
			75-842cm
			14.032 cm
			DNB
			11/17/05
			11/10/05
			11/10/05
			2.72983 sm
			2.15788 sm

SAND	DENSE GRADE
0 190.781	0 191.226
-3.44 190.714	-3.0 191.166
-3.0 190.721	-3.6 190.97
0 190.481	-3.44 190.714
3.0 190.541	0 190.781
3.46 190.55	3.46 190.85
0 190.781	3.713 191.02
	3.0 191.286
	0 191.226

A₁ = 1.937 sm²

A₂ = 3.034 sm² = 0.872 sm²

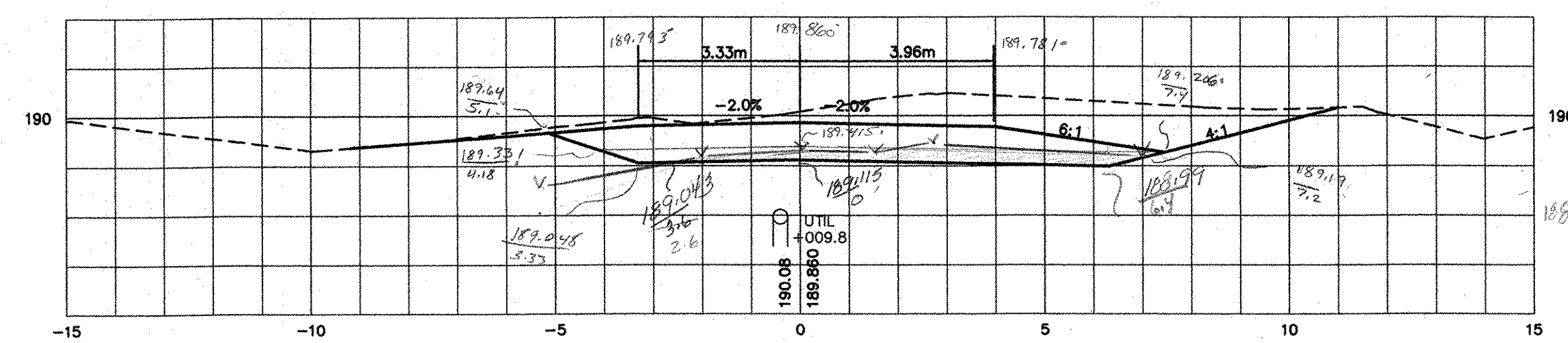
= 2.164 sm²

SAND	DENSE GRADE
0 189.415	0 189.860
-4.18 189.331	-3.33 189.793
-3.33 189.048	-5.1 189.640
0 189.115	-4.18 189.331
6.4 188.99	0 189.415
7.2 189.19	7.2 189.19
0 189.415	7.4 189.206
	3.96 189.781
	0 189.860

A₁ = 2.897 sm²

A₂ = 4.744 sm² = 1.057 sm²

= 3.687 sm²



8+010
ZERO LEDGE @ 8+008

PAVEMENT = 7.23m x 0.145m = 1.057 sm²
FINE-GRADE = 11.38 m

189.348 - 0.02x = 189.018 + 0.3533x
0.3 = 0.3533x
0.85 = x

BUTT
M.L. @ 8+06.7 = 8+010.
AREAS

DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	NAD 1927

V: /1261/CADD/PLANS/XSECTIONS-MANDIGO.DWG

MANDIGO ROAD SECTION	
PROJECT: GRAFTON-ROCKINGHAM, ROUTE 121	PROJECT NO.: STP 0126(4)S
DESIGN FILE NAME: IPARM FILE NAME: SURVEYED BY: SQUAD LEADER:	PLOT DATE: 12/08/03 SURVEY DATE: DRAWN BY: SHEET: 103 OF 116