

CROMWELL BOROUGH COUNCIL

NEIGHBOURHOOD ONE DEVELOPMENT

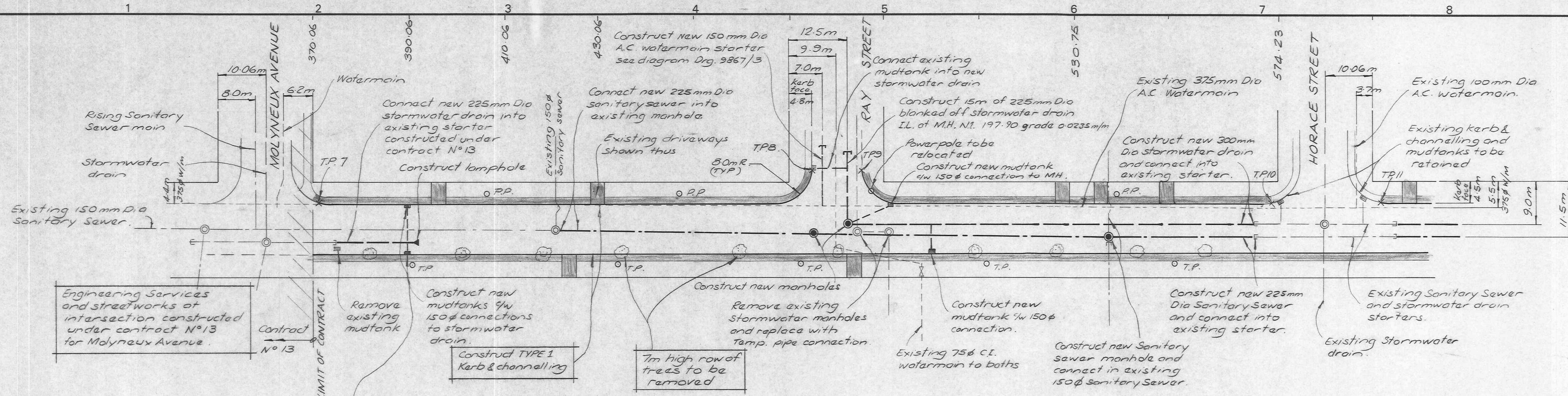


DUFFILL WATTS & KING LTD
Consulting Engineers

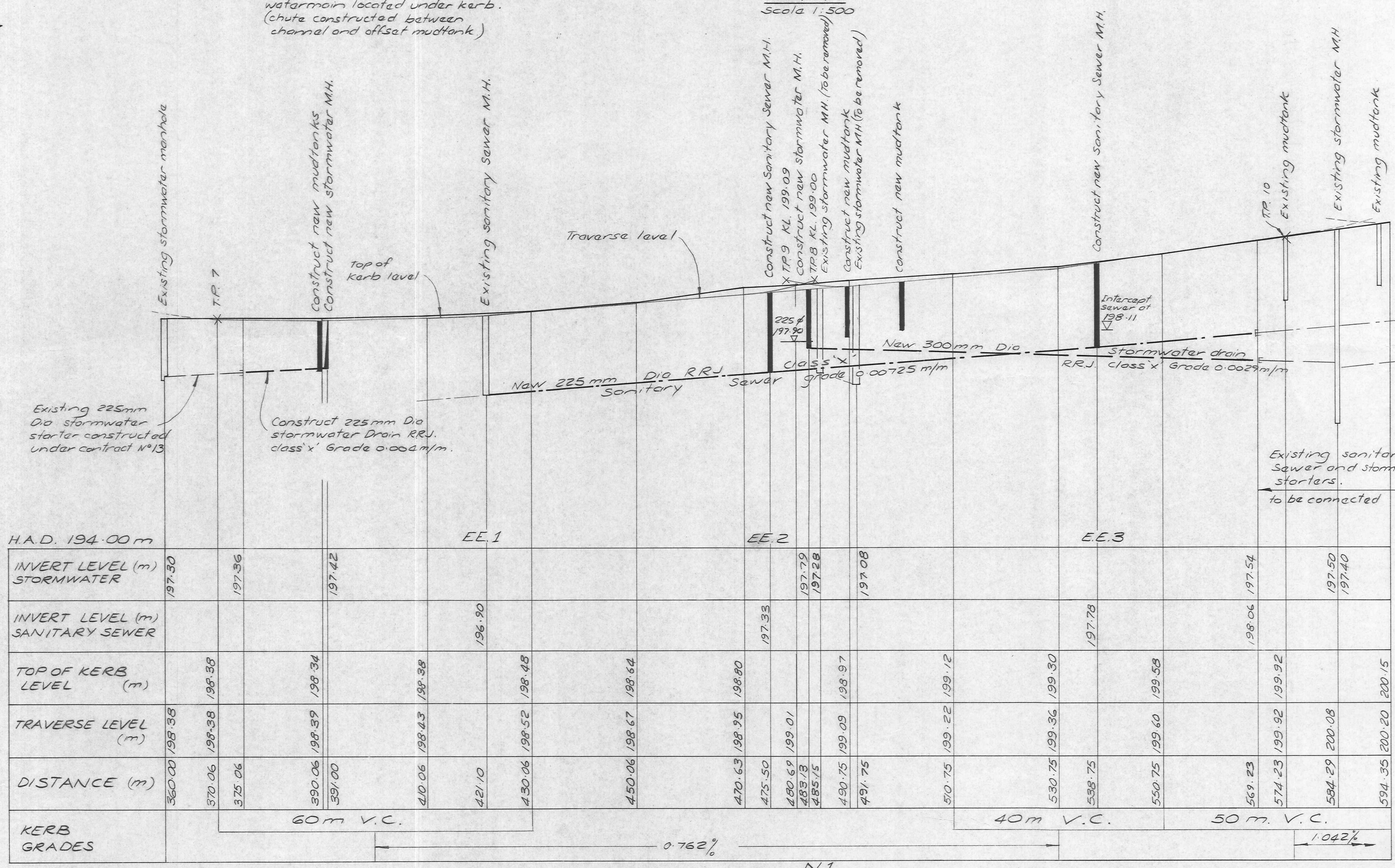
CONTRACT NO 10

ALPHA ST.

Set No



PLAN
Scale 1:500



N.1.
LONGITUDINAL SECTION
Scale: HORIZ 1:500
VERT 1:50

NOTES:

1. For cross sections and watermain diagram at the intersection with RAY St. see Drg. 9867/3.
2. For typical cross section see Drg. 9867/4.

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**CROMWELL
BOROUGH COUNCIL**

**NEIGHBOURHOOD 1
DEVELOPMENT**

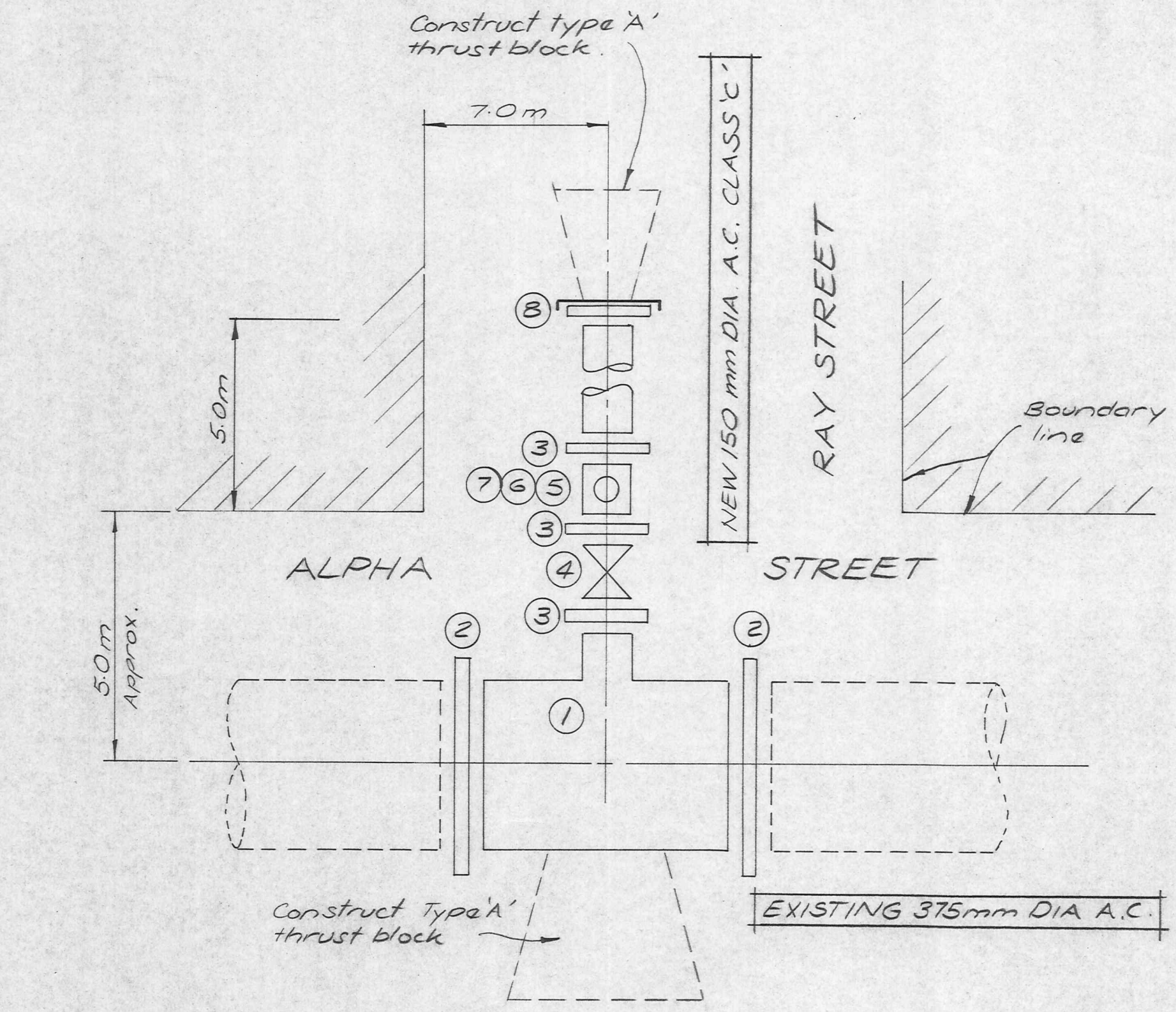
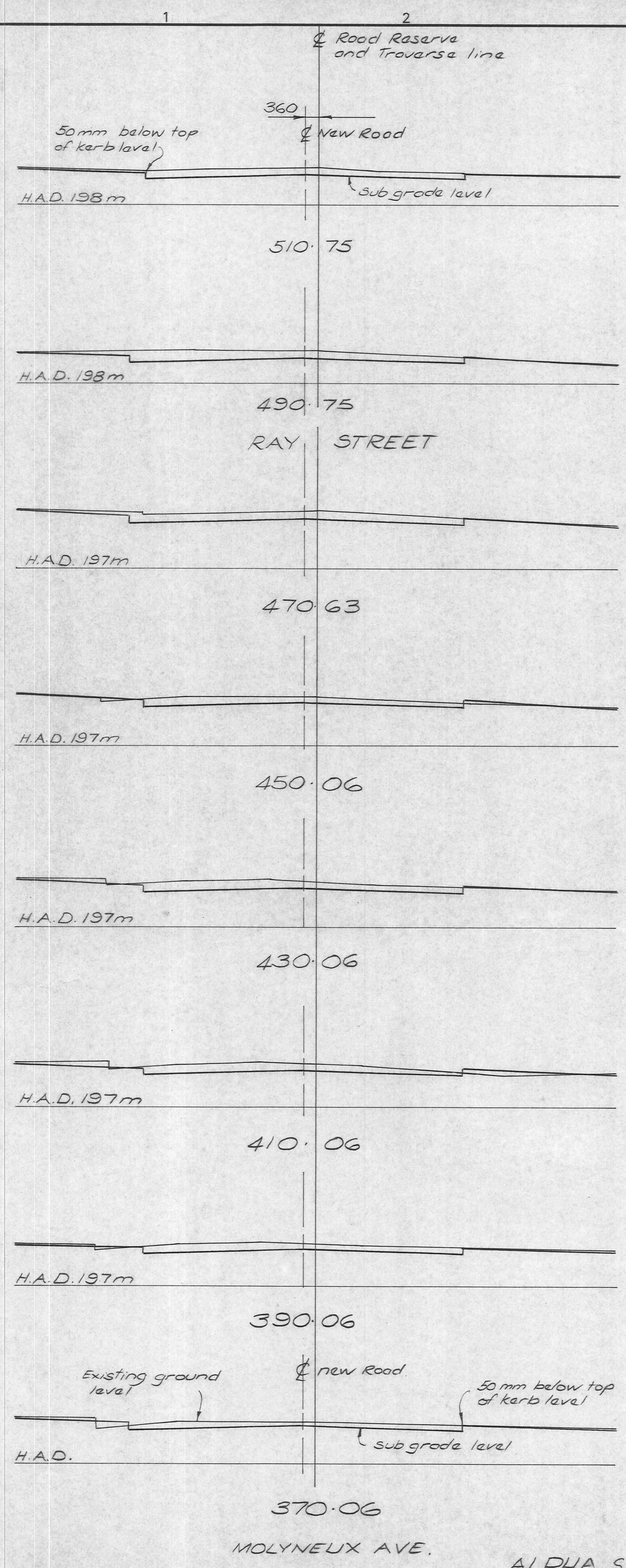
CONTRACT No. 10
CONSTRUCTION OF
STREETWORKS AND
ENGINEERING SERVICES

ALPHA STREET
(MOLYNEUX AVE. - HORACE ST.)

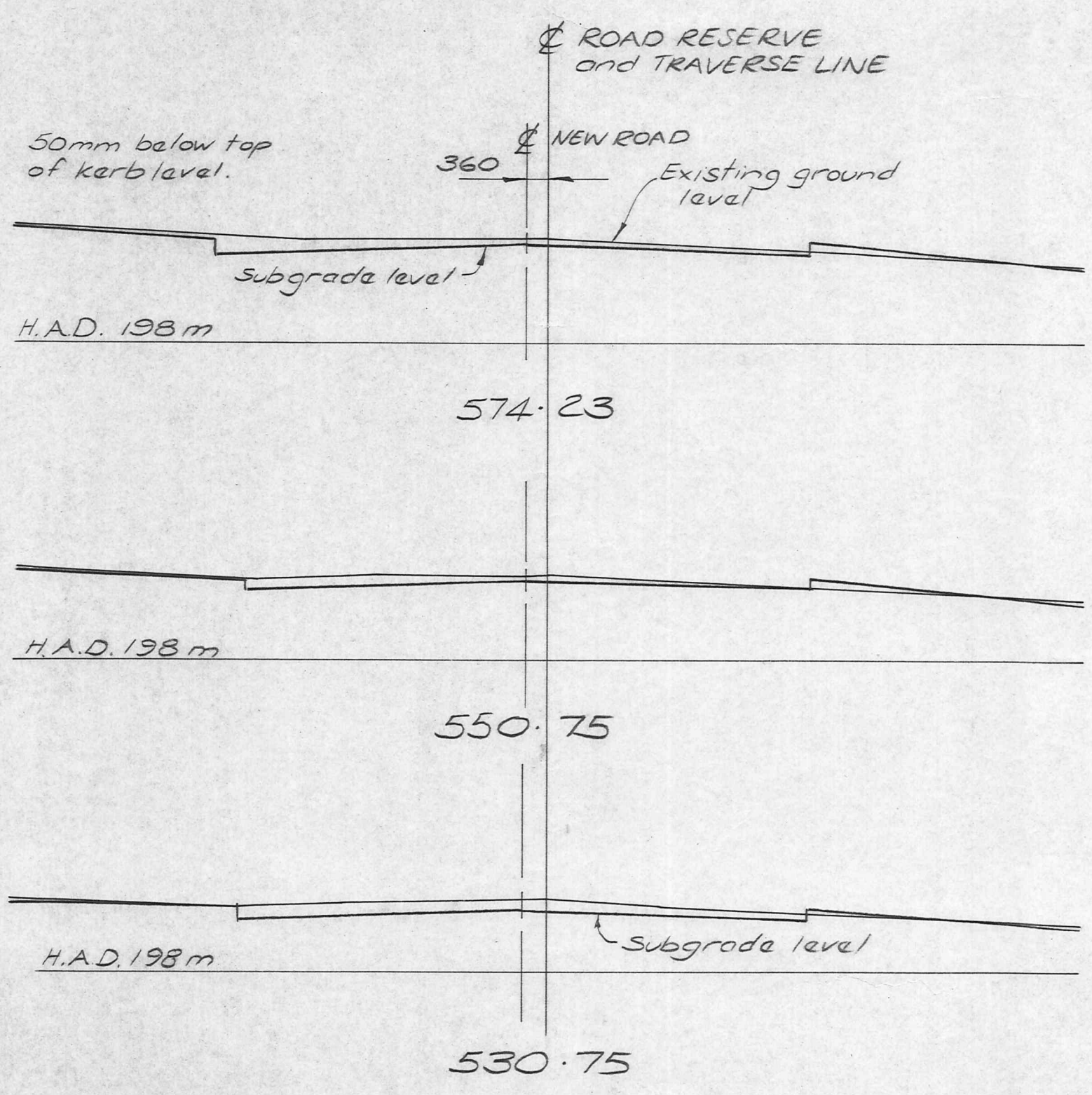
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NO.	BY	DATE	Appvd.				
				Surveyed	N. J. & M. B.	4-82	1
				Drawn	N. JELLEY	5-82	of 11 sheets
				Calculations			
				Traced	M. COOPER	6-82	
				Checked		16/6/82	
				Approved		Dec 82	

File 9/19/11 L.B. 415 F.B.

ORIGINAL SIZE
mm INCHES
300
200
150
100
50
30
10
0
12
11
10
9
8
7
6
5
4
3
2
1
0



WATERMAIN DIAGRAM
INTERSECTION OF ALPHA ST. AND RAY ST.
N.T.S.



ALPHA ST. CROSS-SECTIONS
Scale 1:100

SCHEDULE OF FITTINGS

ITEM	DESCRIPTION	Nº REQ'D
1	375 x 100 unequal Plain ended TEE	1
2	375 mm Dia Gibault Joints	2
3	150 mm Dia Gibault Joints	3
4	150 mm Dia Plain ended sluice valve	1
5	150 mm Dia Plain ended hydrant TEE	1
6	Hydrant riser	1
7	Hydrant	1
8	150 mm Dia Gibault Blank Cap	1

WATERMAIN NOTES

- Existing reticulation shown as dotted lines.
- The contractor shall connect all new reticulation into existing pipework as shown on the drawings and as specified.
- Property boundaries shown as hatched lines.
- All valve and hydrant marker posts shall be to N.Z.S. 4501-1 Specification.

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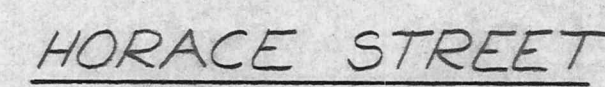
CROMWELL
BOROUGH COUNCIL

NEIGHBOURHOOD 1
DEVELOPMENT

CONTRACT No. 10
CONSTRUCTION OF
STREETWORKS AND
ENGINEERING SERVICES

ALPHA STREET
CROSS SECTIONS (MOLYNEUX AVE - HORACE ST)
WATERMAIN DIAGRAM

AMENDMENTS				NAME		DATE	JOB NO.		Sheet No
NO.	BY	DATE	Appvd.	Surveyed	N. J. & M. B.	4-82	9867		3
				Drawn	N. JELLEY	5-82			
				Calculations	"	"	of 11 shts		
				Traced	M. COOPER	6-82			
				Checked	16/6/82		File 9/19/11 L.B. 415 F.B.		
				Approved	Dec '82				

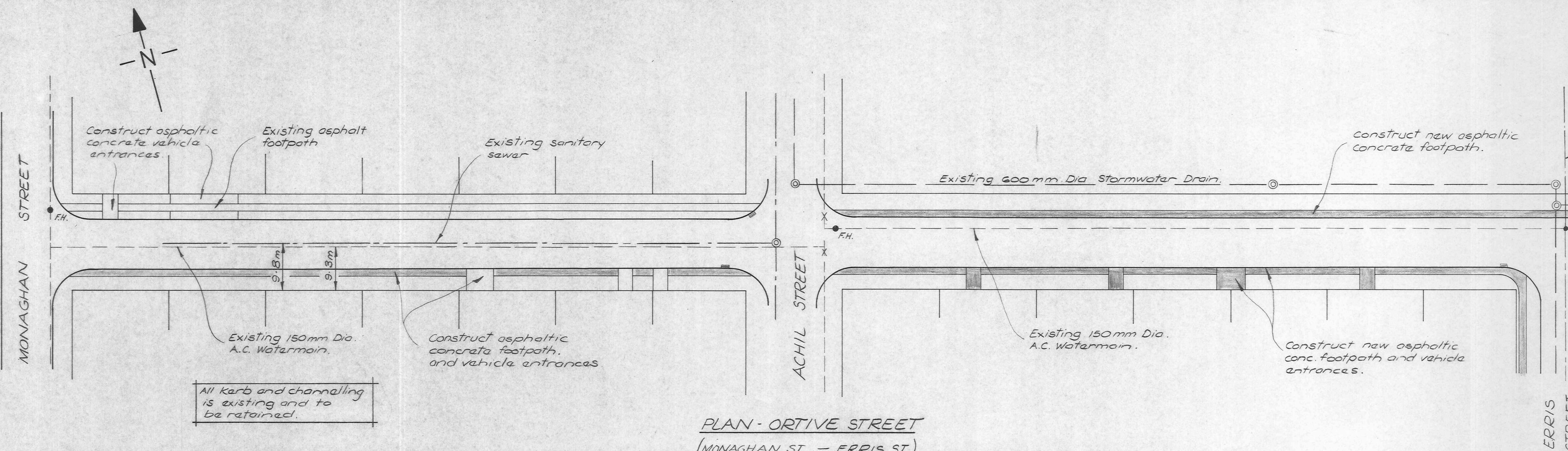


AMENDMENTS				NAME		DATE		JOB NO.		Sheet No	
NO.	BY	DATE	Appvd.	Surveyed	N. J. & M. B.	4 - 82	9867		4 of 11 sheets		
				Drawn	N. JELLEY	"					
				Calculations	"	"					
				Traced	M. COOPER	5 - 82					
				Checked	<i>[Signature]</i>	10/6/82					
				Approved	<i>[Signature]</i>	Dec. 82	File	9/19/11	L.B. 415	F.B. <i>[Signature]</i>	

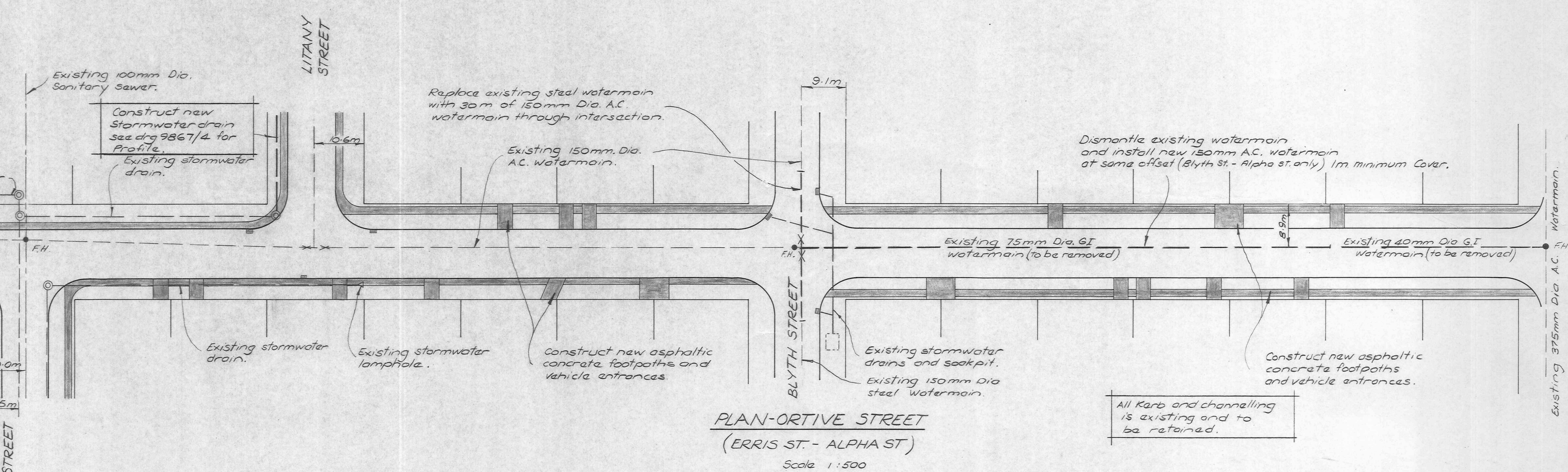
ORIGINAL SIZE mm INCHES

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300

1 2 3 4 5 6 7 8 9



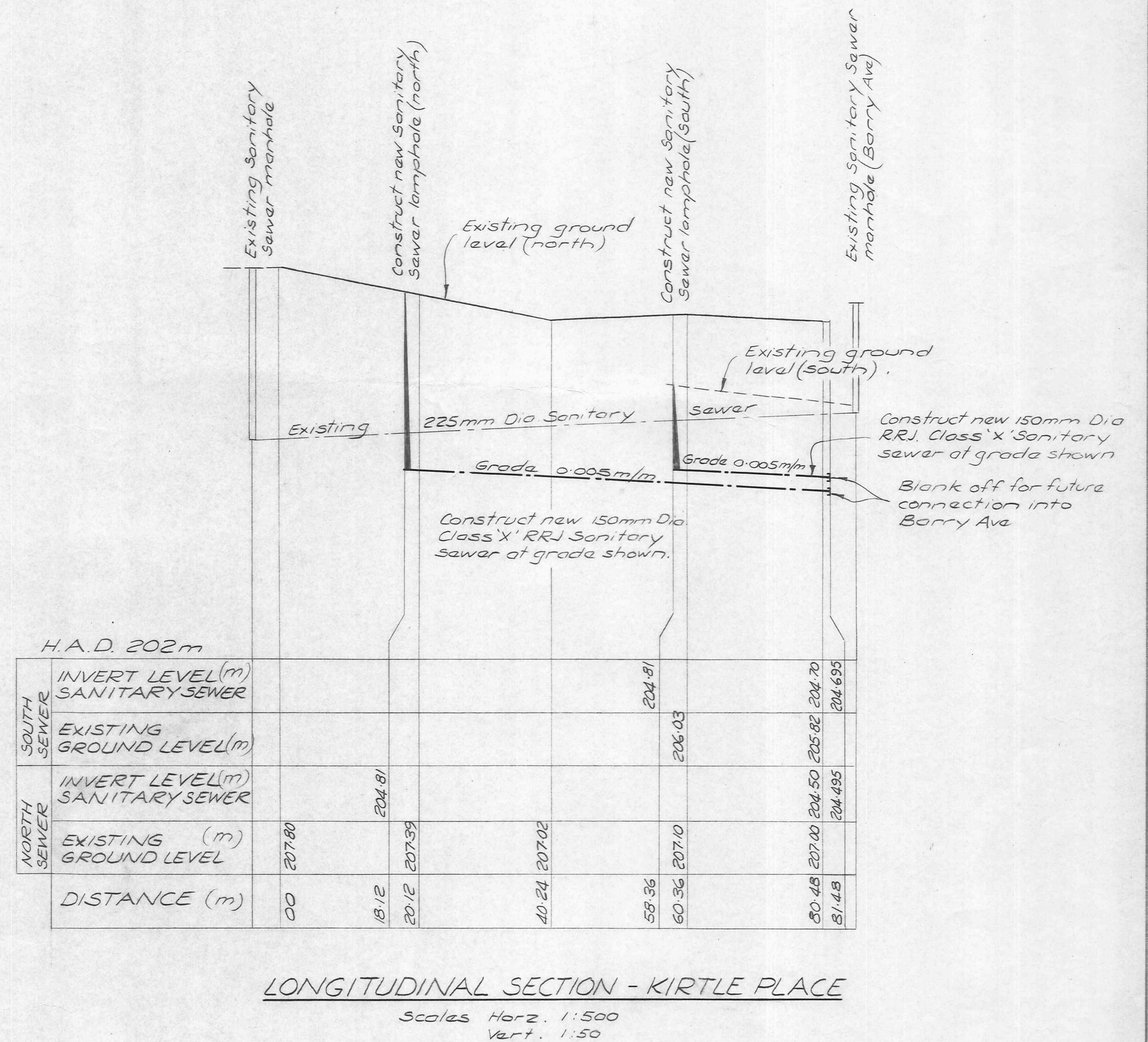
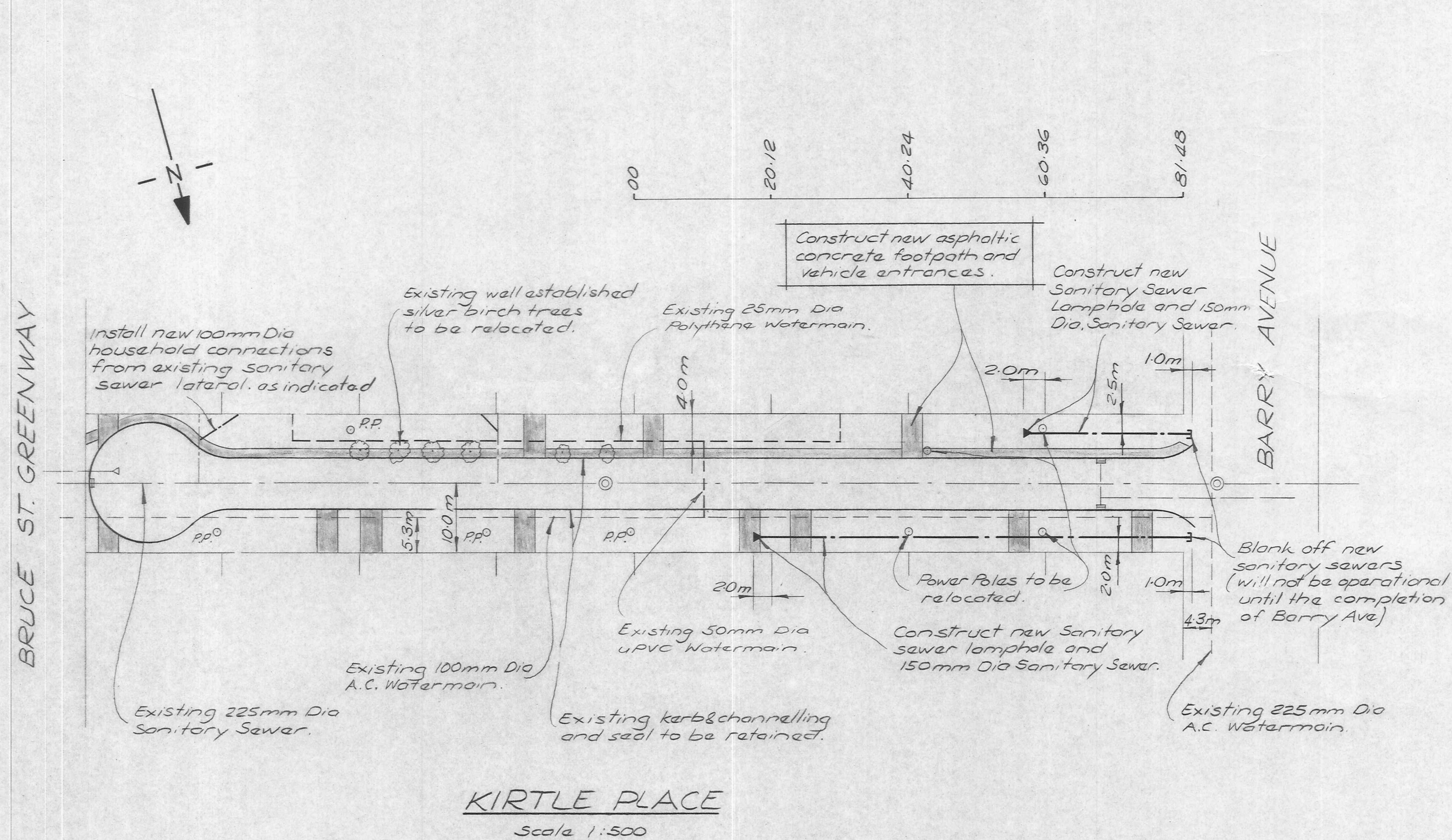
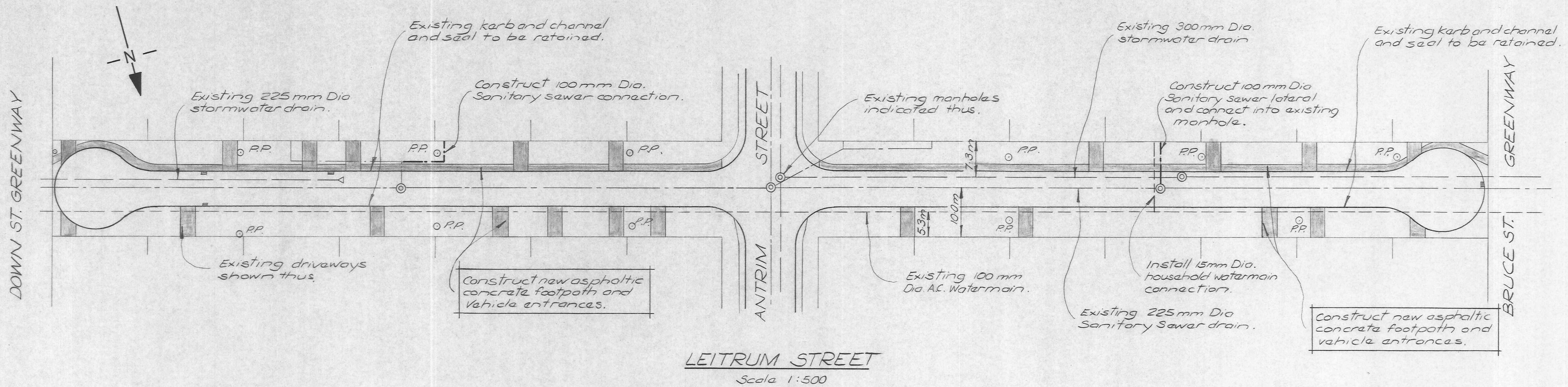
PLAN - ORTIVE STREET
(MONAGHAN ST - ERRIS ST.)
Scale 1:500



PLAN-ORTIVE STREET
(ERRIS ST. - ALPHA ST.)
Scale 1:500

NOTE:
1. For details of new 150mm Dia A.C. watermain between Blyth St. and Alpha St. see Drg. 9867/4.
2. Household water connections required for vacant sections, positions to be given by engineer on site.

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			CONSTRUCTION OF STREETWORKS AND ENGINEERING SERVICES		NO.	BY	DATE	Appvd.	Surveyed	N. JELLEY	3-82	9867	5	
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									Calculations	"	"			
									Traced	M. COOPER	4-82			
									Checked	<i>[Signature]</i>	16/6/82			
									Approved	<i>[Signature]</i>	Dec '82			
								File	9/19/11	L.B.	415	F.B.		



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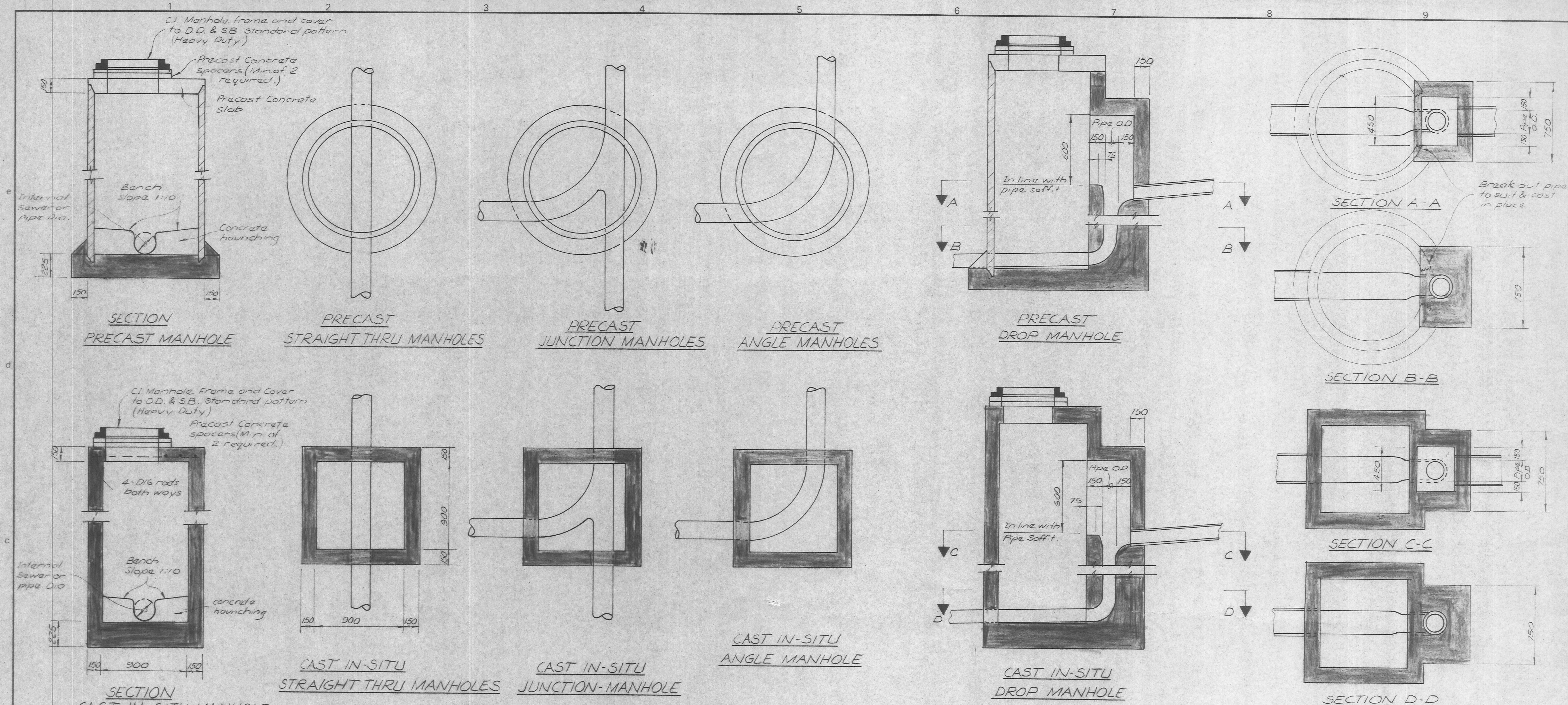
CROMWELL
BOROUGH COUNCIL

NEIGHBOURHOOD 1
DEVELOPMENT

CONTRACT No 10
CONSTRUCTION OF
STREETWORKS AND
ENGINEERING SERVICES

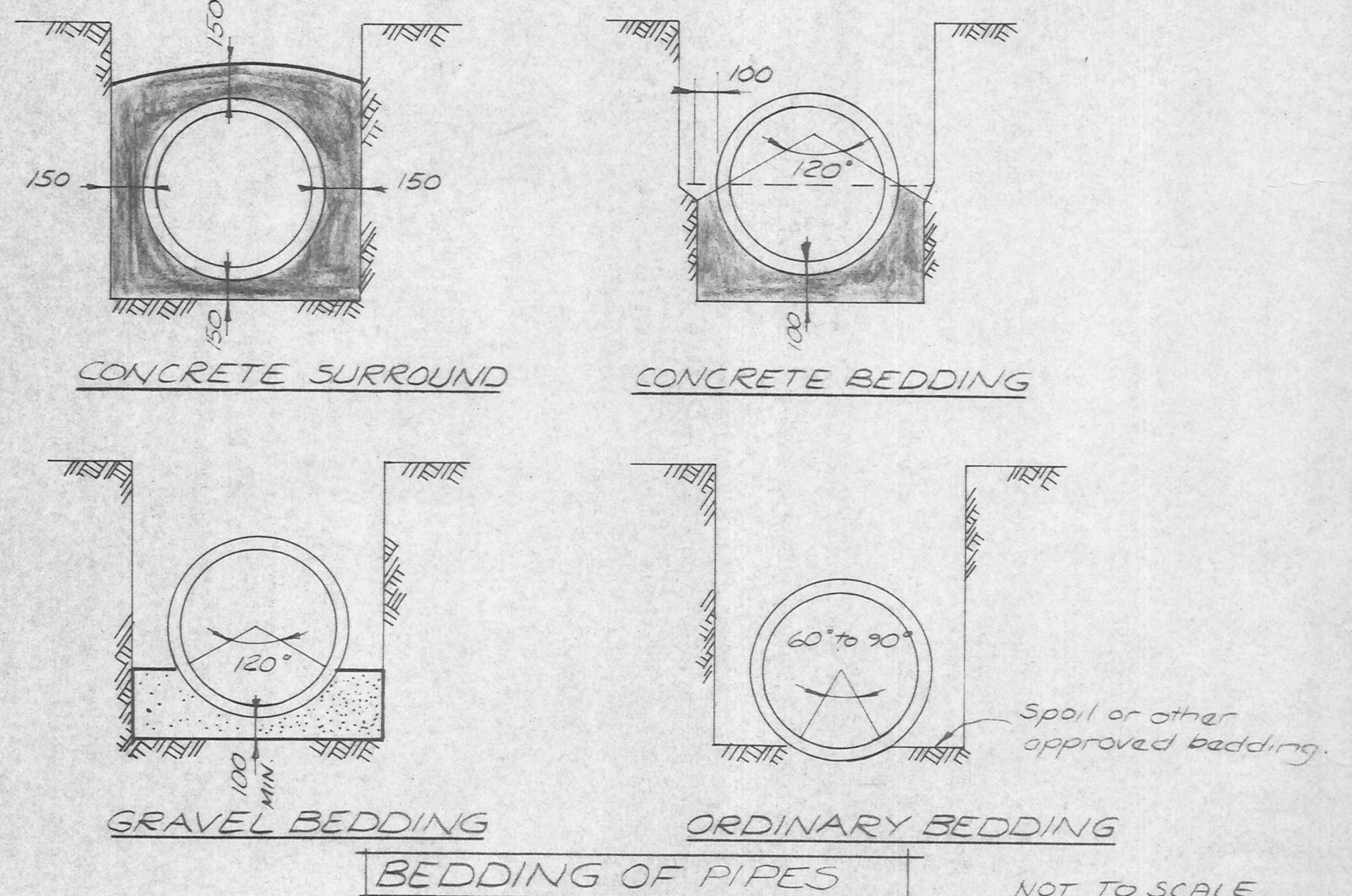
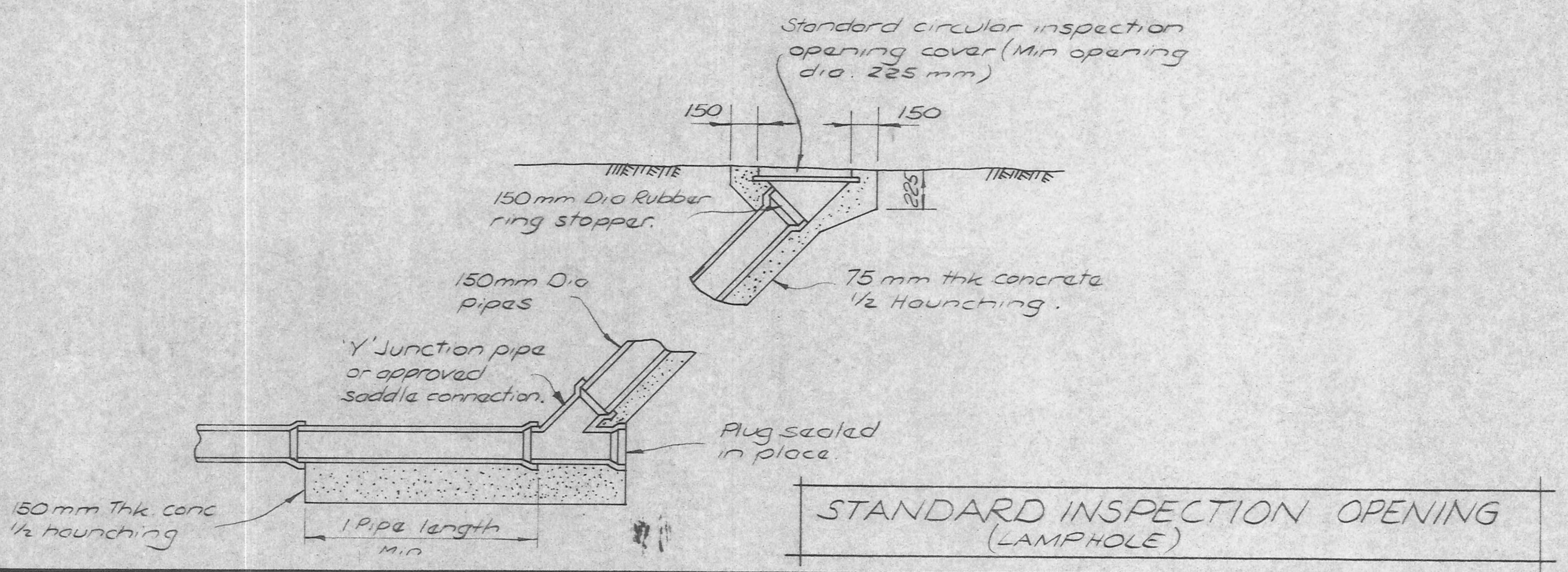
LEITRUM STREET
KIRTLE PLACE
PLANS AND LONGITUDINAL SECTION

AMENDMENTS				NAME		DATE		JOB NO.		Sheet No	
NO.	BY	DATE	Appvd.	Drawn	N. JELLEY	5-82		9867		7	
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				Traced	M. COOPER	5-82					
				Checked		16/6/82					
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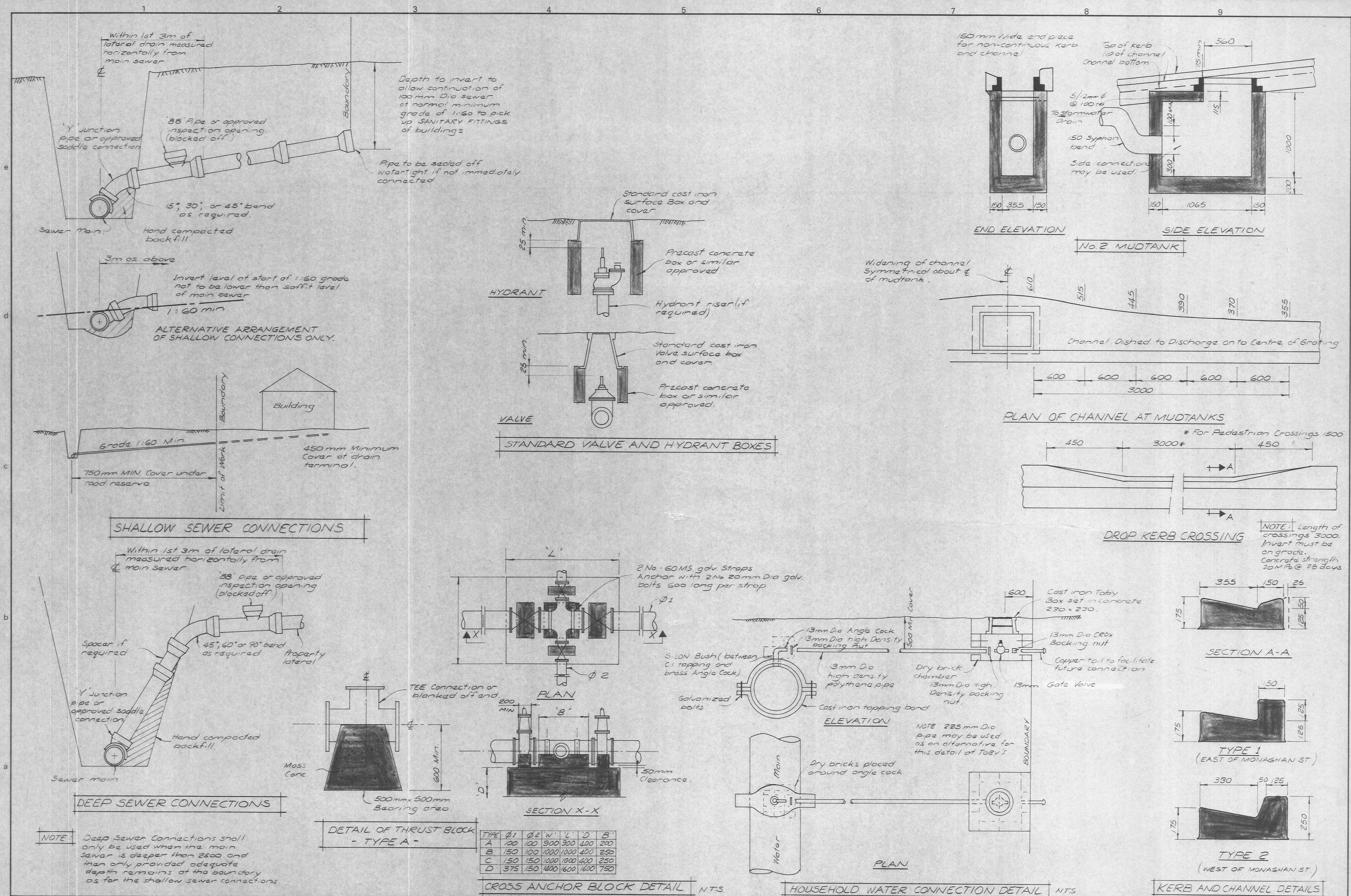


NOTE: Wall thickness increases to 225mm for manholes greater than 3.0m deep

STANDARD SANITARY SEWER MANHOLE DETAILS
(FOR DIAMETERS LESS THAN 375 mm)



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			CONSTRUCTION OF STREETWORKS AND ENGINEERING SERVICES		NO	BY	DATE	Appvd.	Surveyed			9867	8
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									Calculations				
									Traced	M. COOPER	6-82		
				Checked							of 11 shts.		
				Approved									



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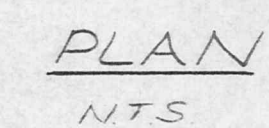
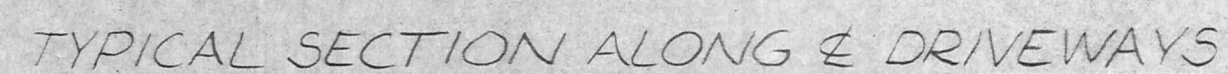
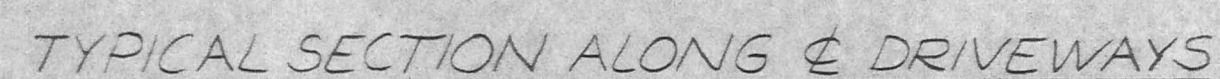
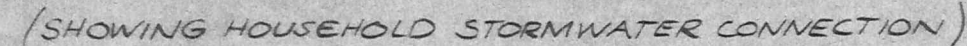
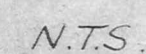
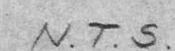
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NEIGHBOURHOOD 1 DEVELOPMENT

CONTRACT No 10
CONSTRUCTION OF STREETWORKS AND ENGINEERING SERVICES

STANDARD DETAILS
(ENGINEERING SERVICES)

AMENDMENTS				NAME		DATE	JOB NO.	Sheet No
NO	BY	DATE	Appvd					
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				Drawn				of 11 sheets
				Calculations		M. COOPER	6-82	
				Traced				
				Checked		16/6/82		
				Approved		9/19/11		



NOTE :- Cable Ducts to extend 500 mm behind kerb face & 300 mm from back of footpath where footpath is against kerb

