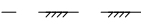


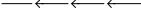


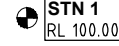
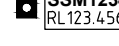
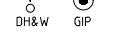









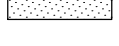
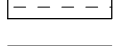
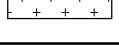


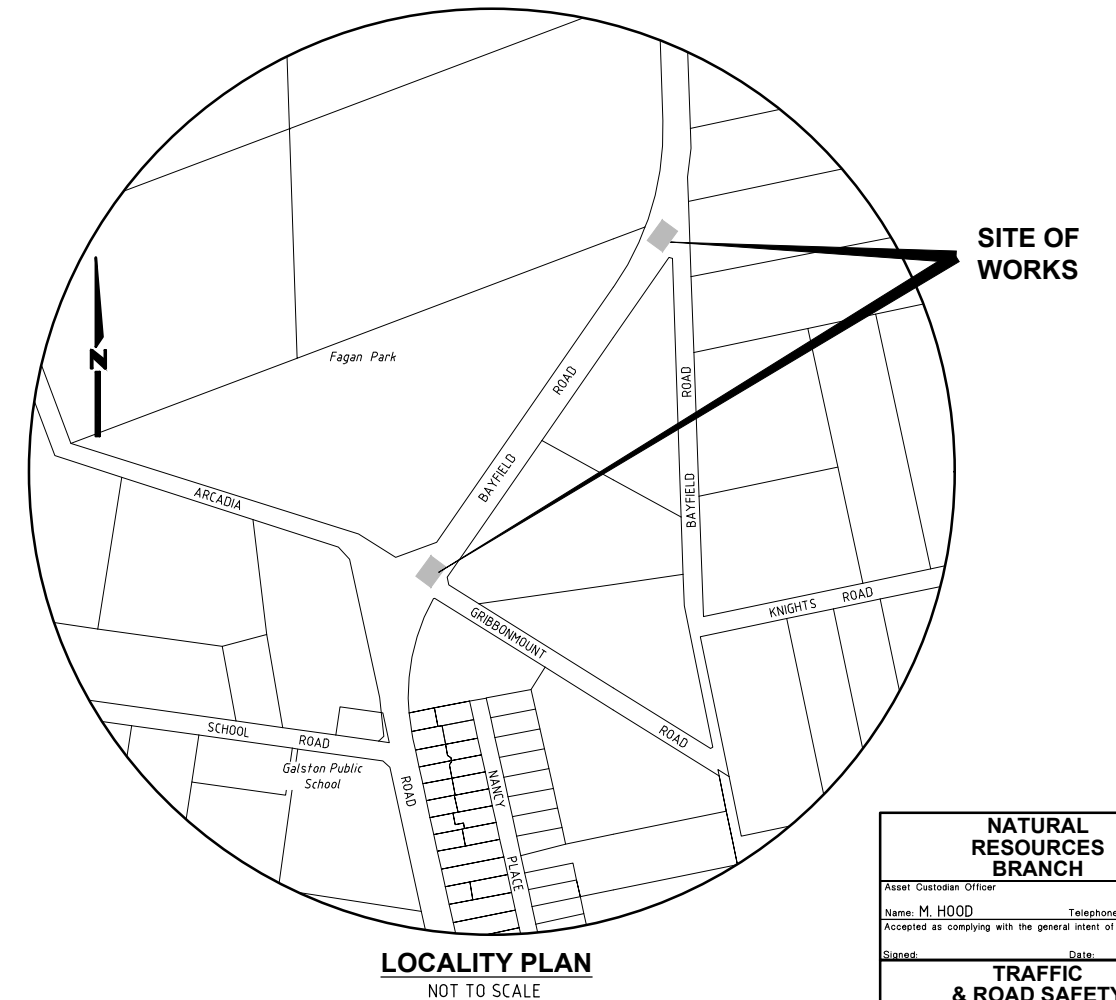
BAYFIELD ROAD, GALSTON PROPOSED INTERSECTION IMPROVEMENTS

PRELIMINARY
NOT FOR CONSTRUCTION

LEGEND

-  EXISTING EDGE OF BITUMEN.
-  EXISTING FENCE.
-  EXISTING TOP OF BANK.
-  EXISTING TABLE DRAIN.
-  EXISTING POWER POLE.
-  EXISTING TREE/TREE DEAD OR TO BE REMOVED.
-  SURVEY TRAVERSE STATION.
-  STATE SURVEY MARK.
-  SURVEY REFERENCE MARKS - DRILL HOLE & WING/GALVANISED IRON PIPE.
-  EXISTING FIRE HYDRANT.
-  EXISTING WATER STOP VALVE.
-  EXISTING TELSTRA PIT.
-  EXISTING U/G OPTUS CABLES.
-  EXISTING U/G TELSTRA CABLES.
-  EXISTING U/G ELECTRICAL CABLES.
-  EXISTING OVERHEAD ELECTRICAL CABLES.
-  EXISTING WATER MAIN.
-  PROPOSED EDGE OF PAVEMENT.
-  EXTENT OF NEW PAVEMENT CONSTRUCTION (REFER TO TYPICAL SECTION ON SHEET No.2 FOR DETAILS).
-  EXTENT OF PAVEMENT PROFILING TO SUIT FINISHED DESIGN LEVELS.
-  EXTENT OF PAVEMENT RECONSTRUCTION TO SUIT NEW DESIGN LEVELS.

DRAWING SCHEDULE		
SHEET No.	TITLE	ISSUE
1	DRAWING SCHEDULE, LEGEND & LOCALITY PLAN	1
2	PROJECT NOTES, TYPICAL SECTION & PAVEMENT DETAILS.	1
3	GENERAL WORKS & SERVICES PLAN - SHEET 1 OF 2.	1
4	GENERAL WORKS & SERVICES PLAN - SHEET 2 OF 2.	1
5	LONGITUDINAL SECTIONS - CL2 & CL1A.	1
6	LONGITUDINAL SECTIONS - CL3 & CL1B.	1
7	SETOUT PLAN 1 & DETAILS.	1
8	SETOUT PLAN 2 & DETAILS.	1
9	CROSS SECTION CL1A & CL2.	1
10	CROSS SECTION CL1B.	1
11	CROSS SECTION CL3.	1



NATURAL RESOURCES BRANCH	
Asset Custodian Officer	Name: M. HOOD Telephone: 9847 6008
Accepted as complying with the general intent of the design brief	
Signed:	Date:
TRAFFIC & ROAD SAFETY BRANCH	
Senior Traffic Engineer	Name: R. ZARZYCKI Telephone: 9847 6844
Accepted as complying with the general intent of the design brief	
Signed:	Date:
ASSET MANAGEMENT & MAINTENANCE BRANCH	
Senior Asset Engineer	Name: A. BOYD Telephone: 9847 6672
Accepted as complying with the general intent of the design brief	
Signed:	Date:

**Hornsby Shire Council
Design & Construction
Branch**
 TELEPHONE: 021 9847 6666
 FACSIMILE: 021 9847 6999
 Authorised for release - Manager Design & Construction
 Name: R. RAJCA Signed: Date:

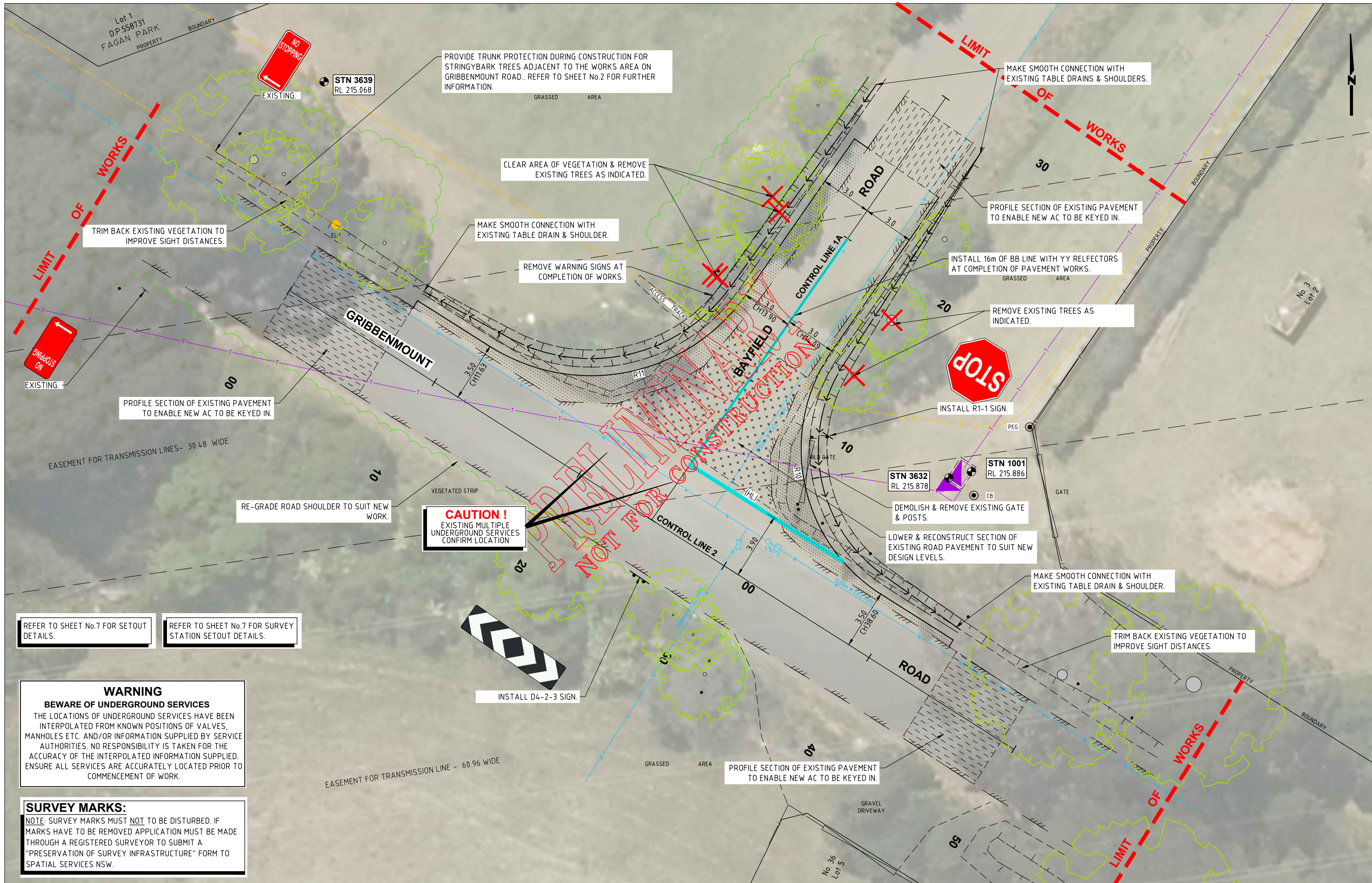
Designer S. COMISH Signed:	Design Checked-Design Team Leader Signed:				
Drawn A. MAXWELL Signed:	Drawing Checked Signed:				
Surveyor J. HART	NA Field Book	NA Level Book	GDA94 Datum		
Project Identifier\CAD File Name H:\Bayfield Rd_LR_101682\DESIGN\ACAD\Bayfield.dwg	1	ISSUED FOR CONSTRUCTION	M. DRAKE		
TRIM Document Number	Issue	Description	Name	Initial	Date
Design not to be amended without authorisation by Manager Design & Construction					

Bar Scales
AS SHOWN
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY



**BAYFIELD ROAD, GALSTON
PROPOSED INTERSECTION IMPROVEMENTS**
 DRAWING SCHEDULE, LEGEND & LOCALITY SKETCH

Project Number	101682		
Sheet of	1	11	1
HSC Drawing Number	967.9		



REFER TO SHEET No.7 FOR SETOUT DETAILS.

REFER TO SHEET No.7 FOR SURVEY STATION SETOUT DETAILS.

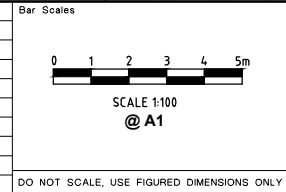
WARNING
BEWARE OF UNDERGROUND SERVICES
 THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN INTERPOLATED FROM KNOWN POSITIONS OF VALVES, MANHOLES ETC. AND/OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED. ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK.

SURVEY MARKS:
 NOTE: SURVEY MARKS MUST NOT TO BE DISTURBED. IF MARKS HAVE TO BE REMOVED APPLICATION MUST BE MADE THROUGH A REGISTERED SURVEYOR TO SUBMIT A "PRESERVATION OF SURVEY INFRASTRUCTURE" FORM TO SPATIAL SERVICES NSW.

CAUTION!
 EXISTING MULTIPLE UNDERGROUND SERVICES CONFIRM LOCATION

Hornsby Shire Council
Design & Construction
Branch

Designer S. COMISH	Design Checked-Design Team Leader						
Drawn A. MAXWELL	Signed:						
Surveyor J. HART	NA	NA	GDA94				
Field Book	Level Book	Datum					
Project Identifier\ACAD File Name H:\Bayfield Rd_LR_101682\DESIGN\ACAD\Bayfield.dwg	1	ISSUED FOR CONSTRUCTION	M. DRAKE				
TRIM Document Number	Issue	Description	Name	Initial	Date		
Design not to be amended without authorisation by Manager Design & Construction							

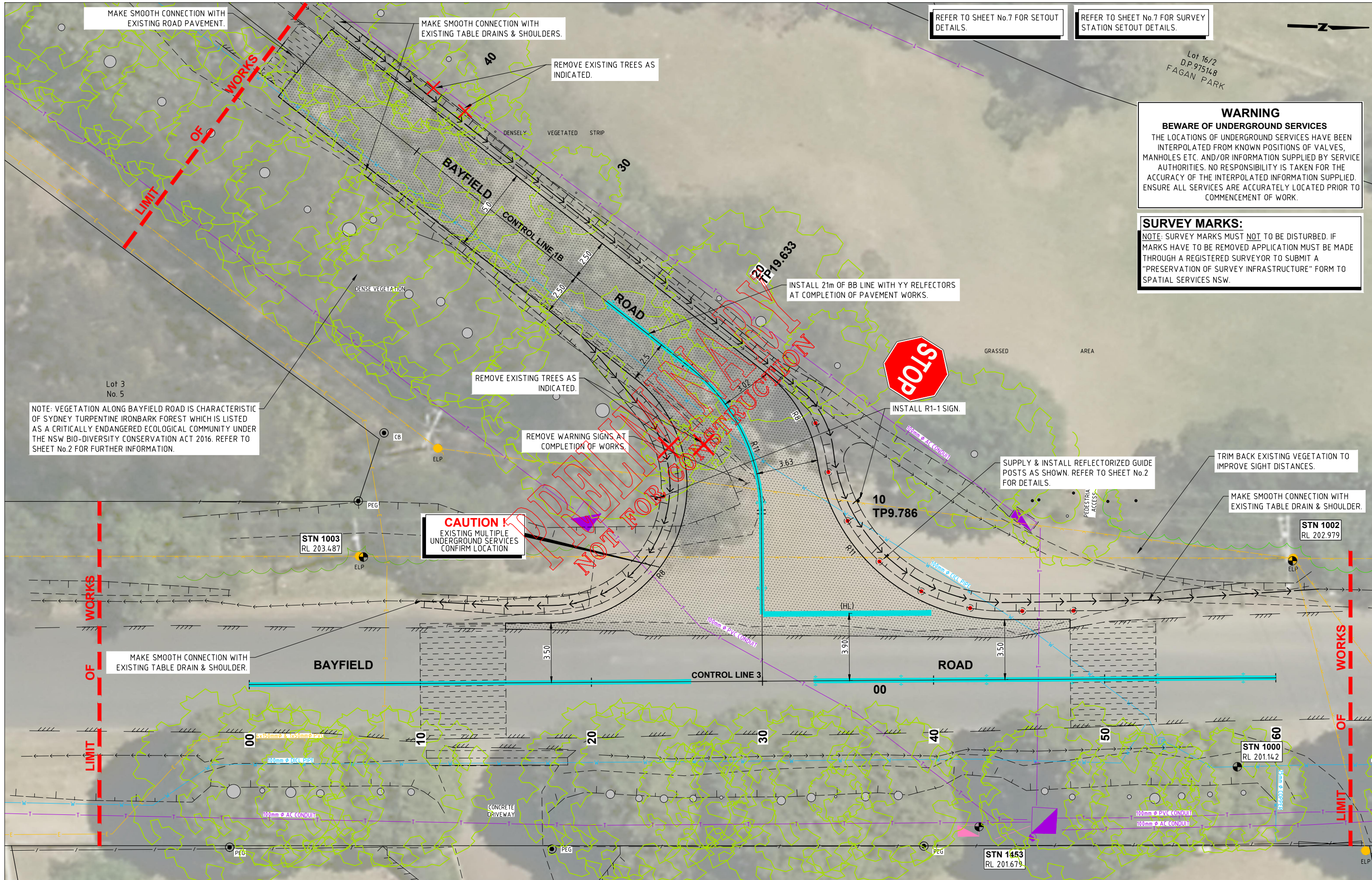


BAYFIELD ROAD, GALSTON
PROPOSED INTERSECTION IMPROVEMENTS

GENERAL WORKS & SERVICES PLAN - SHEET 1 OF 2

Project Number 101682	Sheet 3	of 11	Issue 1
HSC Drawing Number 967.9			

Authorised for release - Manager Design & Construction
 Name: R. RAJCA Signed: Date:



MAKE SMOOTH CONNECTION WITH EXISTING ROAD PAVEMENT.

MAKE SMOOTH CONNECTION WITH EXISTING TABLE DRAINS & SHOULDERS.

REFER TO SHEET No.7 FOR SETOUT DETAILS.

REFER TO SHEET No.7 FOR SURVEY STATION SETOUT DETAILS.

Lot 16/2
D.P.975148
FAGAN PARK

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN INTERPOLATED FROM KNOWN POSITIONS OF VALVES, MANHOLES ETC. AND/OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED. ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK.

SURVEY MARKS:
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NOTE: VEGETATION ALONG BAYFIELD ROAD IS CHARACTERISTIC OF SYDNEY TURPENTINE IRONBARK FOREST WHICH IS LISTED AS A CRITICALLY ENDANGERED ECOLOGICAL COMMUNITY UNDER THE NSW BIO-DIVERSITY CONSERVATION ACT 2016. REFER TO SHEET No.2 FOR FURTHER INFORMATION.

CAUTION!
EXISTING MULTIPLE UNDERGROUND SERVICES CONFIRM LOCATION



INSTALL R1-1 SIGN.

INSTALL 21m OF BB LINE WITH YY REFLECTORS AT COMPLETION OF PAVEMENT WORKS.

SUPPLY & INSTALL REFLECTORIZED GUIDE POSTS AS SHOWN. REFER TO SHEET No.2 FOR DETAILS.

TRIM BACK EXISTING VEGETATION TO IMPROVE SIGHT DISTANCES.

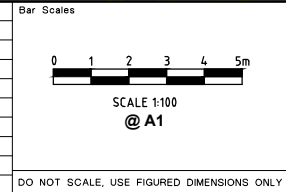
MAKE SMOOTH CONNECTION WITH EXISTING TABLE DRAIN & SHOULDER.

Hornsby Shire Council
Design & Construction
Branch

Designer
S. COMISH
Signed: _____
Drawn
A. MAXWELL
Signed: _____
Surveyor
J. HART
Project Identifier \ CAD File Name
H:\Bayfield Rd_LR_101682\DESIGN\ACAD\Bayfield.dwg
TRIM Document Number

Issue	Description	Name	Initial	Date
1	ISSUED FOR CONSTRUCTION	M. DRAKE		

Design not to be amended without authorisation by Manager Design & Construction



BAYFIELD ROAD, GALSTON
PROPOSED INTERSECTION IMPROVEMENTS
GENERAL WORKS & SERVICES PLAN - SHEET 2 OF 2

Project Number	101682		
Sheet	of	Issue	
4	11		1
HSC Drawing Number	967.9		

PRELIMINARY
 NOT FOR CONSTRUCTION

Horizontal Geometry Data

Vertical Geometry Grade (%)
Vertical Grade Length (m)

Vertical Curve Length (m)
Vertical Curve Radius (m)

DATUM R.L.190.000

CUT / FILL DEPTH TO EXISTING	0	10	20	25.033	28.374	30	40	46.748	50	53	60
CONTROL LINE FINISHED LEVEL		201.331	201.472	201.489	201.481	201.471	201.332	201.159	201.060	200.969	200.750
EXISTING SURFACE LEVEL	201.120	201.331	201.448	201.422	201.396	201.379	201.273	201.142	201.057	200.969	200.750
CONTROL LINE CHAINAGE	0	10	20	25.033	28.374	30	40	46.748	50	53	60

LONGITUDINAL SECTION - ALIGN CL3

SCALE 1:200 HOR
1:100 VERT

Horizontal Geometry Data

Vertical Geometry Grade (%)
Vertical Grade Length (m)

Vertical Curve Length (m)
Vertical Curve Radius (m)

DATUM R.L.191.000

CUT / FILL DEPTH TO EXISTING	-0	3.633	7.133	9.786	10.633	19.633	20	30	40	48.329	50	60
CONTROL LINE FINISHED LEVEL	201.471	201.471	201.488	201.523	201.526	201.538	201.708	201.715	201.904	202.093	202.250	202.481
EXISTING SURFACE LEVEL		201.381	201.483	201.557	201.564	201.617	201.692	201.703	201.941	202.073	202.250	202.285
CONTROL LINE CHAINAGE	-0	3.633	7.133	9.786	10.633	19.633	20	30	40	48.329	50	60

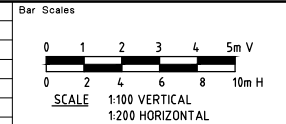
LONGITUDINAL SECTION - ALIGN CL1B

SCALE 1:200 HOR
1:100 VERT

**Hornsby Shire Council
Design & Construction
Branch**

Designer
S. COMISH
Signed: _____
Drawn
A. MAXWELL
Signed: _____
Surveyor
J. HART
Project Identifier \\CAD File Name
H:\\\\Bayfield Rd_LR_101682\\DESIGN\\ACAD\\Bayfield.dwg

Design Checked-Design Team Leader
Signed: _____
Drawing Checked
Signed: _____
NA Field Book NA Level Book GDA94 Datum
1 ISSUED FOR CONSTRUCTION M. DRAKE
Issue Description Name Initial Date
Design not to be amended without authorisation by Manager Design & Construction



**BAYFIELD ROAD, GALSTON
PROPOSED INTERSECTION IMPROVEMENTS**

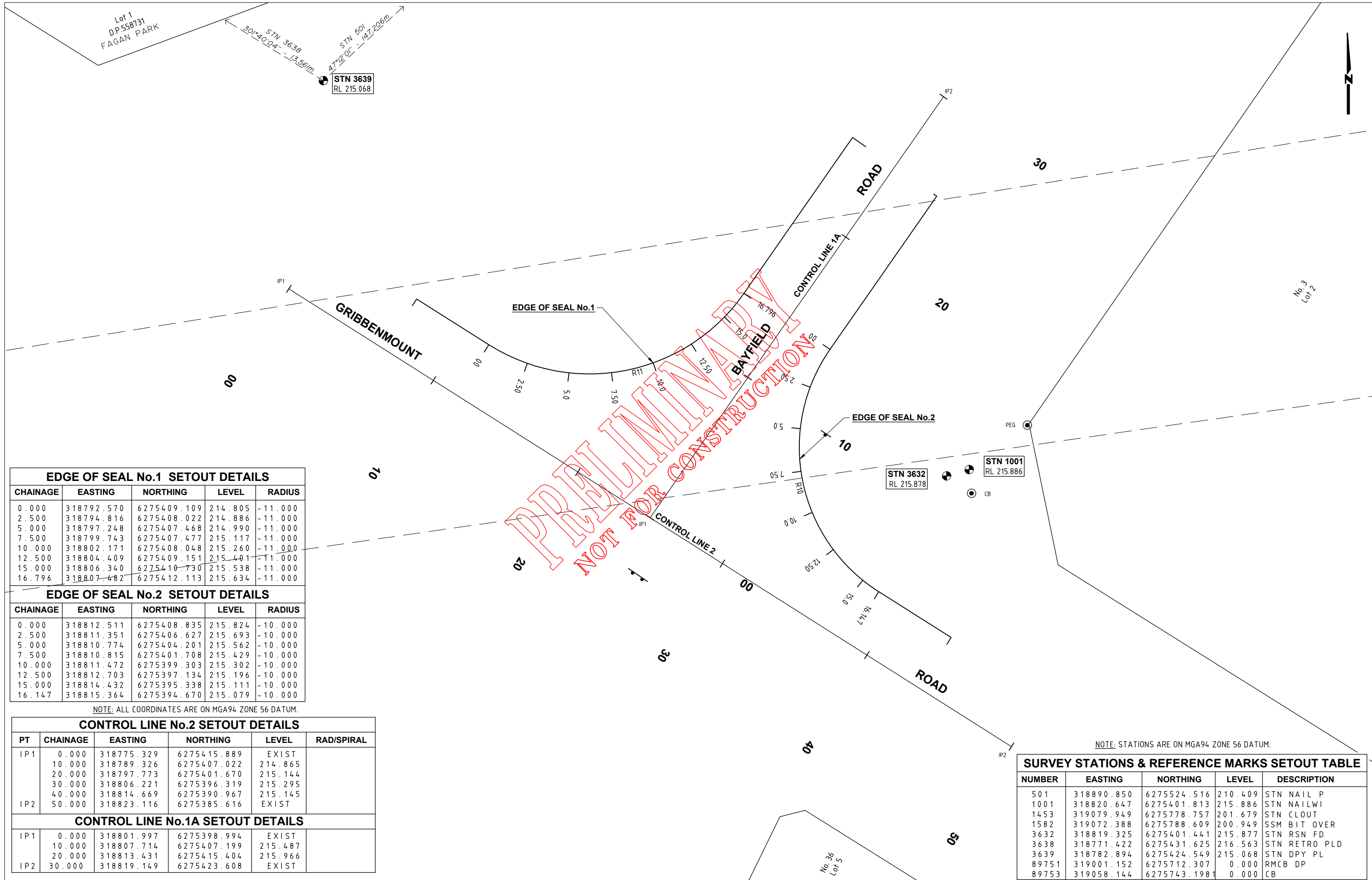
LONGITUDINAL SECTIONS - CL3 & CL1B

Project Number
101682

Sheet of Issue
6 11 1

HSC Drawing Number
967.9

Authorised for release - Manager Design & Construction
Name: **R. RAJCA** Signed: _____ Date: _____



EDGE OF SEAL No.1 SETOUT DETAILS

CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS
0.000	318792.570	6275409.109	214.805	-11.000
2.500	318794.816	6275408.022	214.886	-11.000
5.000	318797.248	6275407.468	214.990	-11.000
7.500	318799.743	6275407.477	215.117	-11.000
10.000	318802.171	6275408.048	215.260	-11.000
12.500	318804.409	6275409.151	215.401	-11.000
15.000	318806.340	6275410.730	215.538	-11.000
16.796	318807.482	6275412.113	215.634	-11.000

EDGE OF SEAL No.2 SETOUT DETAILS

CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS
0.000	318812.511	6275408.835	215.824	-10.000
2.500	318811.351	6275406.627	215.693	-10.000
5.000	318810.774	6275404.201	215.562	-10.000
7.500	318810.815	6275401.708	215.429	-10.000
10.000	318811.472	6275399.303	215.302	-10.000
12.500	318812.703	6275397.134	215.196	-10.000
15.000	318814.432	6275395.338	215.111	-10.000
16.147	318815.364	6275394.670	215.079	-10.000

NOTE: ALL COORDINATES ARE ON MGA94 ZONE 56 DATUM.

CONTROL LINE No.2 SETOUT DETAILS

PT	CHAINAGE	EASTING	NORTHING	LEVEL	RAD/SPIRAL
IP1	0.000	318775.329	6275415.889	EXIST	
	10.000	318789.326	6275407.022	214.865	
	20.000	318797.773	6275401.670	215.144	
	30.000	318806.221	6275396.319	215.295	
IP2	40.000	318814.669	6275390.967	215.145	
	50.000	318823.116	6275385.616	EXIST	

CONTROL LINE No.1A SETOUT DETAILS

PT	CHAINAGE	EASTING	NORTHING	LEVEL	RAD/SPIRAL
IP1	0.000	318801.997	6275398.994	EXIST	
	10.000	318807.714	6275407.199	215.487	
	20.000	318813.431	6275415.404	215.966	
IP2	30.000	318819.149	6275423.608	EXIST	

NOTE: STATIONS ARE ON MGA94 ZONE 56 DATUM.

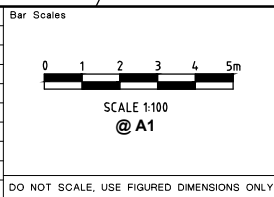
SURVEY STATIONS & REFERENCE MARKS SETOUT TABLE

NUMBER	EASTING	NORTHING	LEVEL	DESCRIPTION
501	318890.850	6275524.516	210.409	STN NAIL P
1001	318820.647	6275401.813	215.886	STN NAILWI
1453	319079.949	6275778.757	201.679	STN CLOUT
1582	319072.388	6275788.609	200.949	SSM BIT OVER
3632	318819.325	6275401.441	215.877	STN RSN FD
3638	318771.422	6275431.625	216.563	STN RETRO PLD
3639	318782.894	6275424.549	215.068	STN DPY PL
89751	319001.152	6275712.307	0.000	RMCB DP
89753	319058.144	6275743.198	0.000	CB

**Hornsby Shire Council
Design & Construction
Branch**

Designer S. COMISH	Design Checked-Design Team Leader	
Drawn A. MAXWELL	Drawing Checked	
Surveyor J. HART	NA Field Book	NA Level Book
Project Identifier\CAD File Name H:\Bayfield Rd_LR_101682\DESIGN\CAD\Bayfield.dwg	GDA94 Datum	
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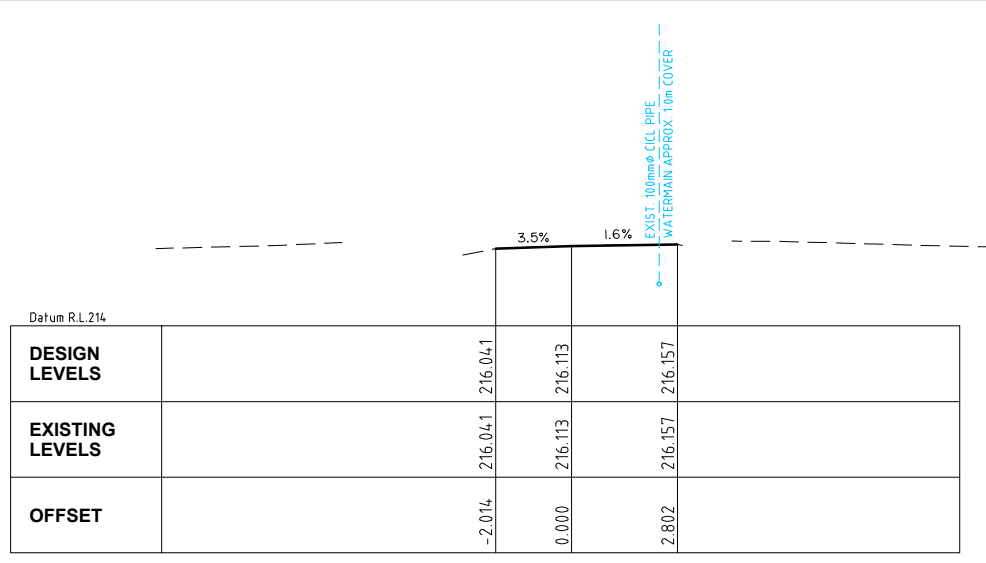
ISSUED FOR CONSTRUCTION	M. DRAKE		
Description	Name	Initial	Date
Design not to be amended without authorisation by Manager Design & Construction			



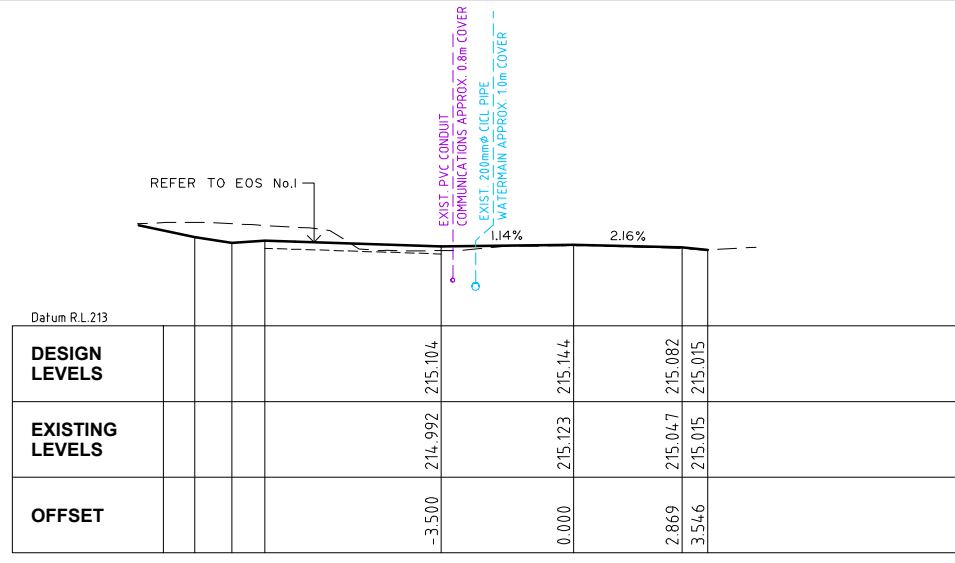
**BAYFIELD ROAD, GALSTON
PROPOSED INTERSECTION IMPROVEMENTS**

SETOUT PLAN 1 & DETAILS

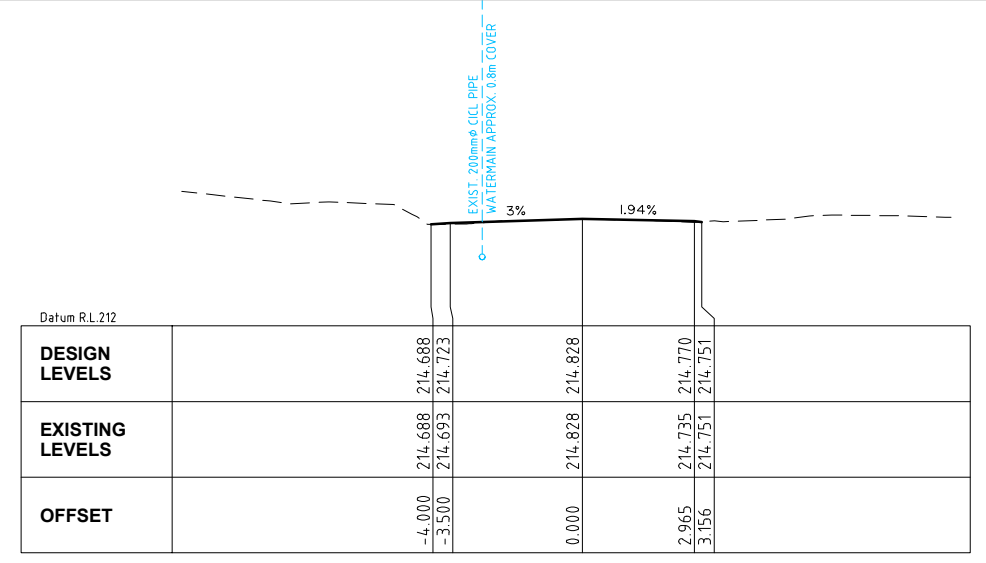
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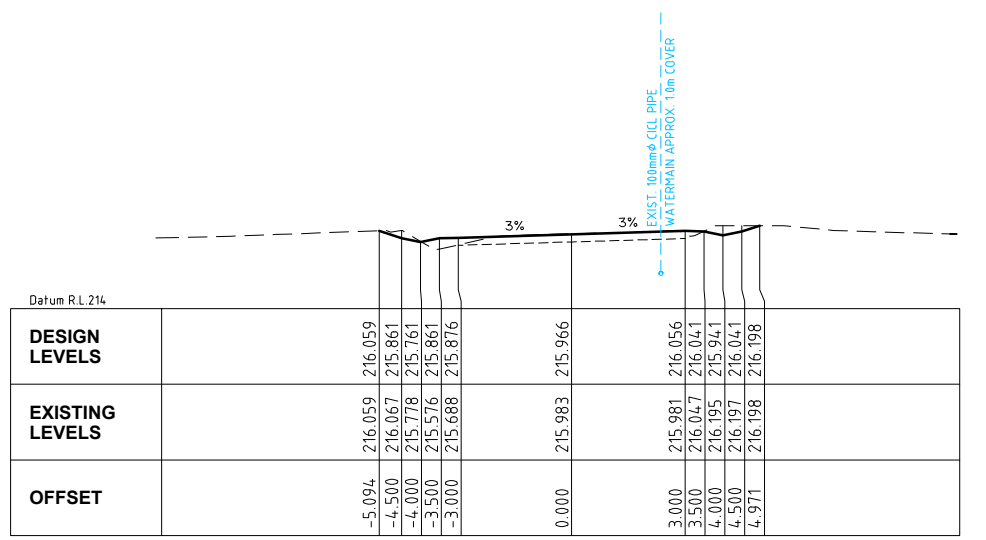
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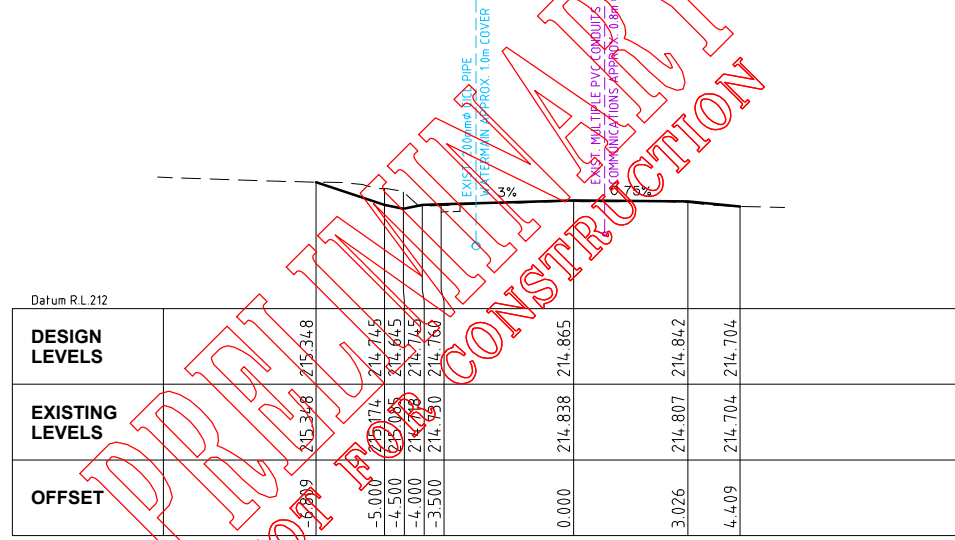
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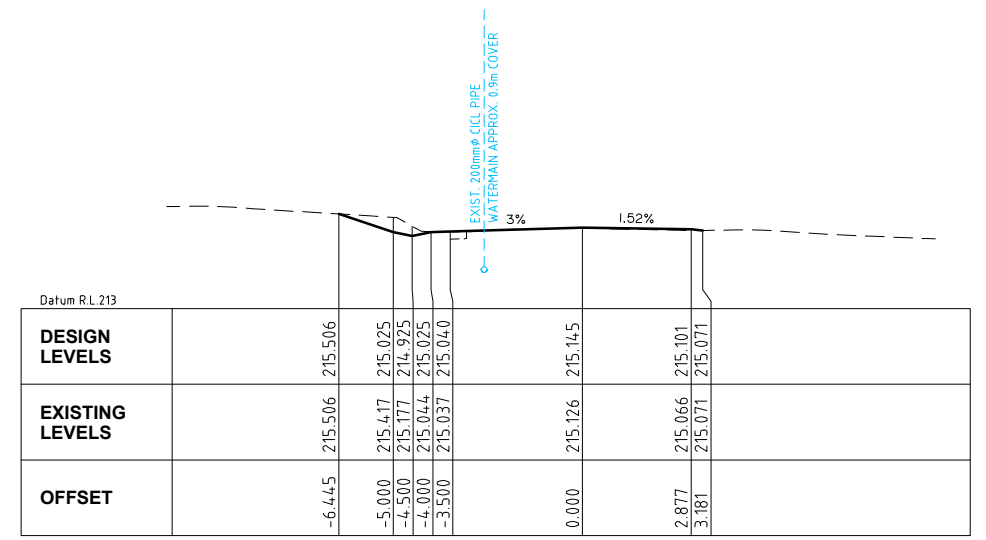
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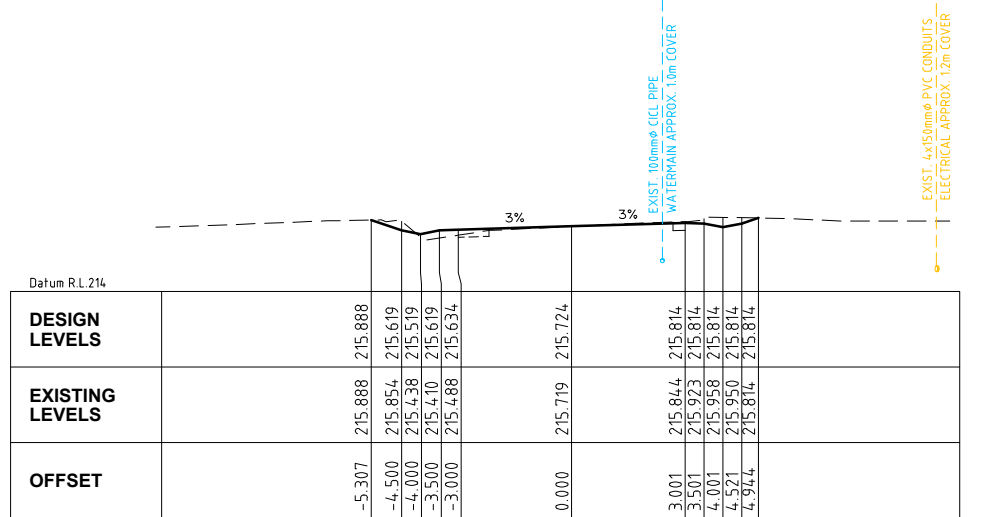
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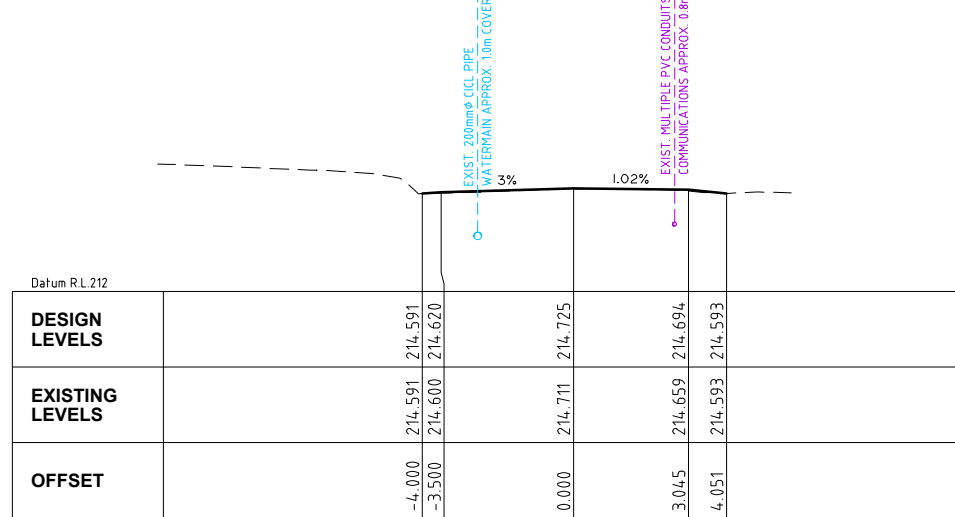
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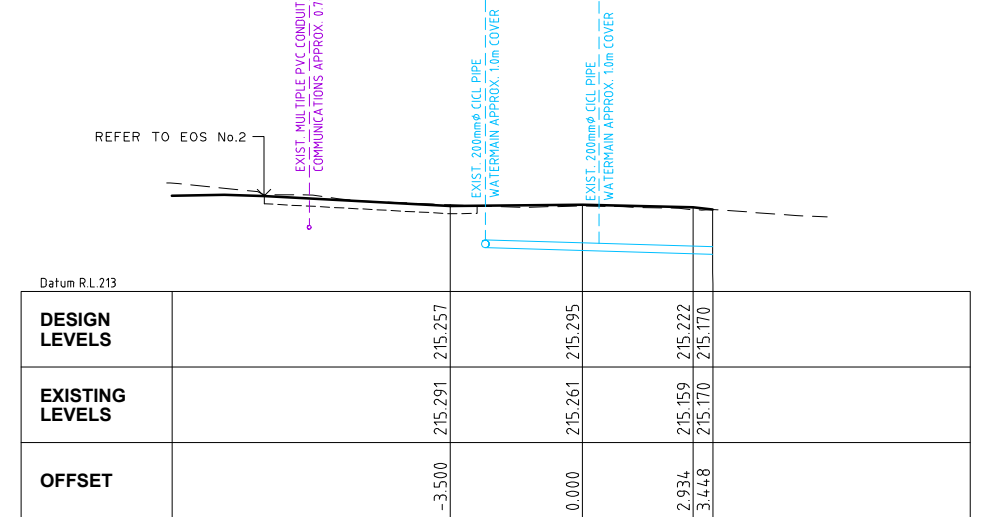
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CH 13.899
CROSS SECTIONS - CL1A



CH 5.000



CH 30.000

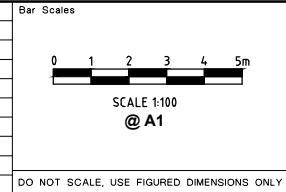
CROSS SECTIONS - CL2

**Hornsby Shire Council
Design & Construction
Branch**
TELEPHONE: 021 9847 6666
FACSIMILE: 021 9847 6919
Authorised for release - Manager Design & Construction
Name: R. RAJCA

Designer S. COMISH	Design Checked-Design Team Leader
Drawn A. MAXWELL	Drawing Checked
Surveyor J. HART	NA Field Book
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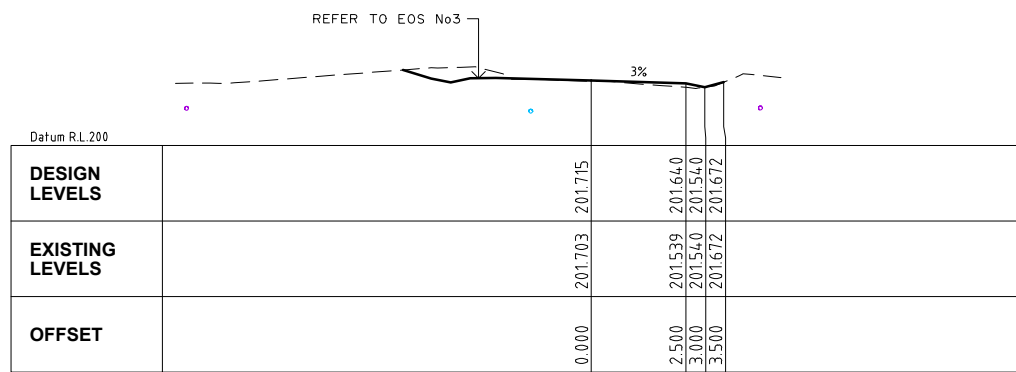
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1	ISSUED FOR CONSTRUCTION	M. DRAKE		

Design not to be amended without authorisation by Manager Design & Construction

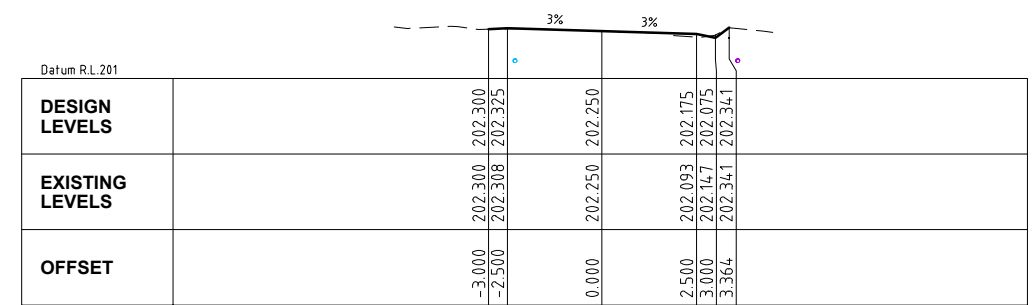


**BAYFIELD ROAD, GALSTON
PROPOSED INTERSECTION IMPROVEMENTS**
CROSS SECTION CL1A & CL2

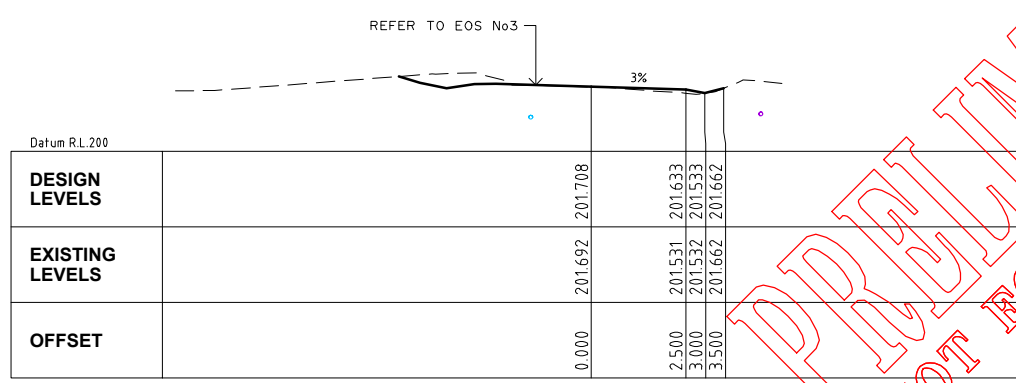
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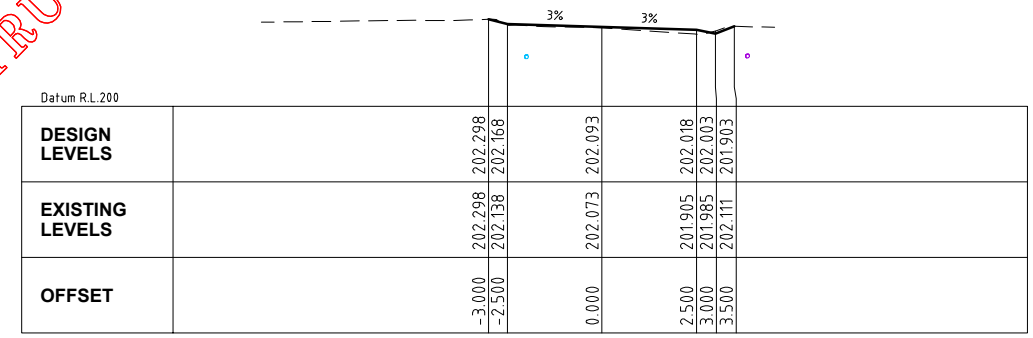
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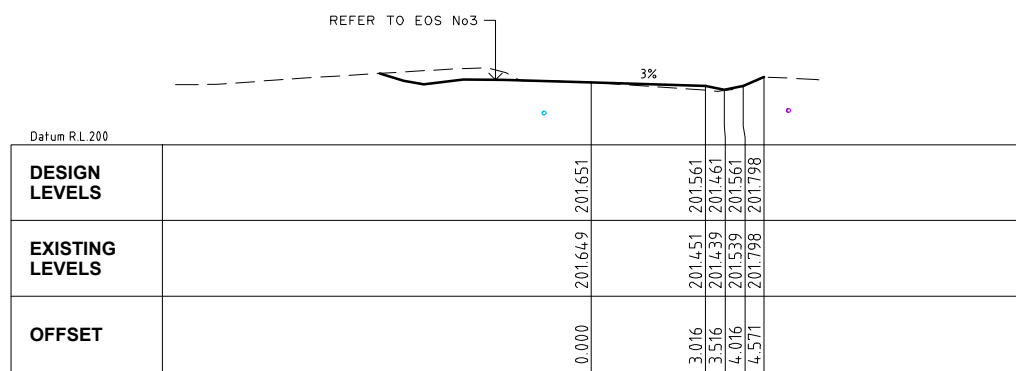
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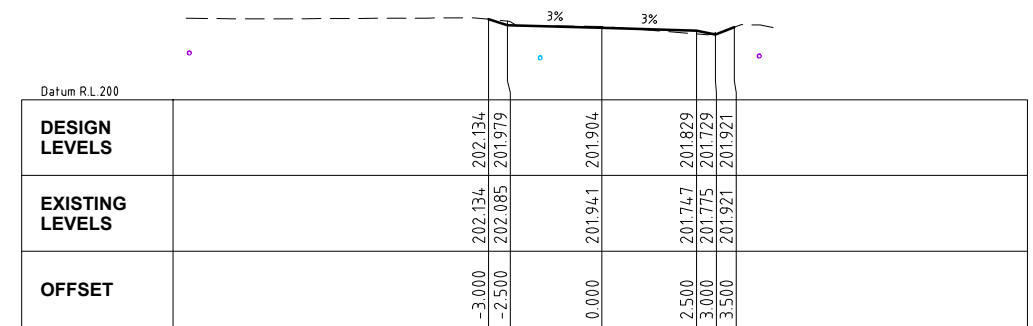
CH 19.633



CH 40.000



CH 16.639



CH 30.000

PRELIMINARY
 NOT FOR CONSTRUCTION

Hornsby Shire Council
 Design & Construction
 Branch

TELEPHONE: 021 9847 6666
 FACSIMILE: 021 9847 6999

Authorised for release - Manager Design & Construction
 Name: R. RAJCA Signed: Date:

Designer
 S. COMISH
 Signed:

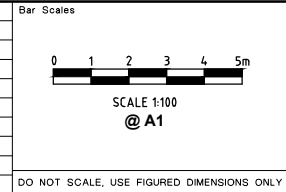
Drawn
 A. MAXWELL
 Signed:

Surveyor
 J. HART

Project Identifier \ CAD File Name
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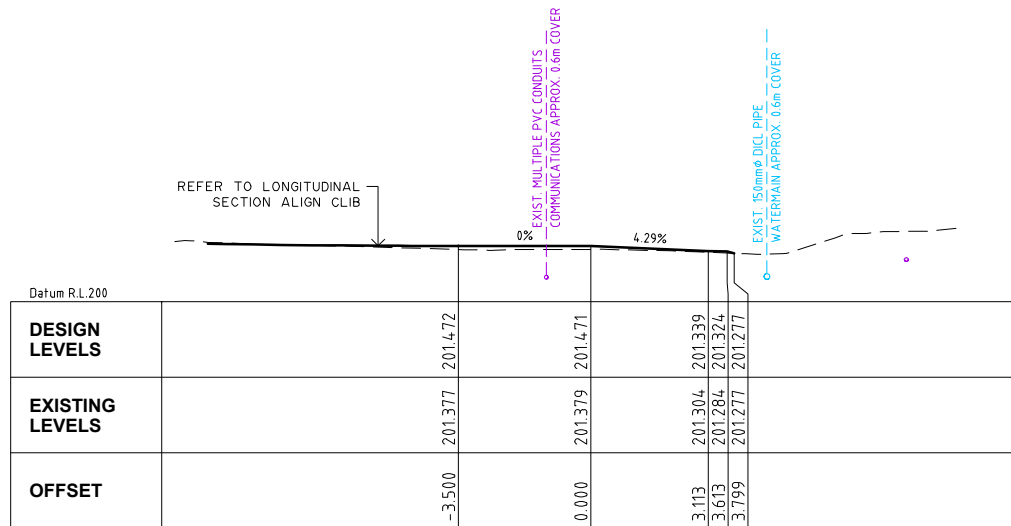
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Field Book	NA	NA	GDA94		
Level Book			Datum		
Issue	1	ISSUED FOR CONSTRUCTION	M. DRAKE		
Description			Name	Initial	Date
Design not to be amended without authorisation by Manager Design & Construction					



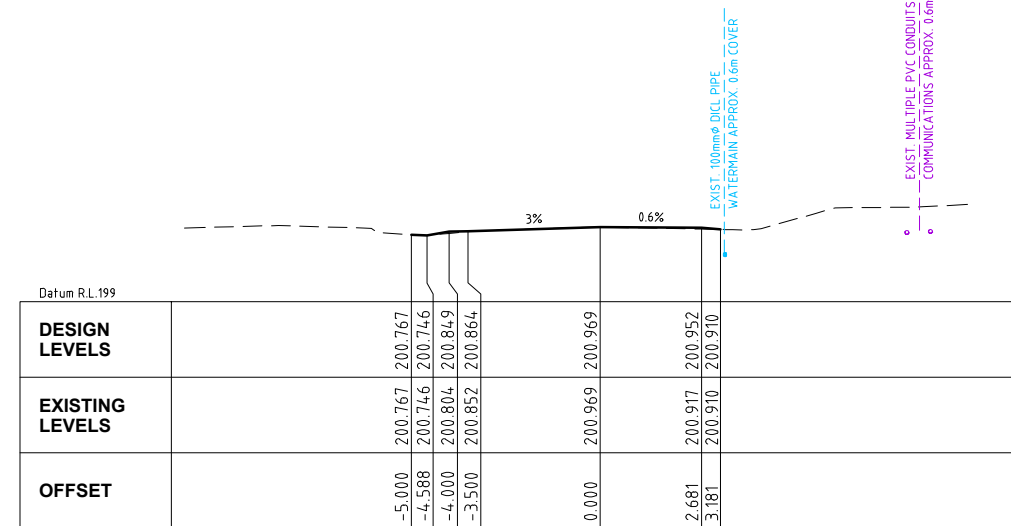
BAYFIELD ROAD, GALSTON
 PROPOSED INTERSECTION IMPROVEMENTS

CROSS SECTION CL1B

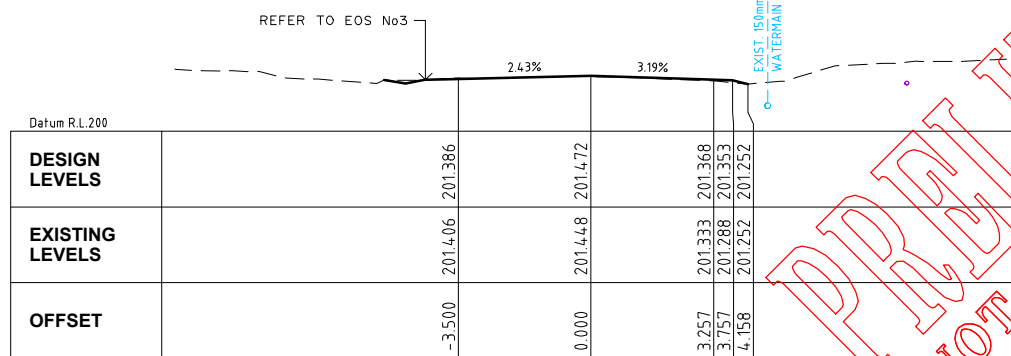
Project Number	101682		
Sheet of	10	11	1
HSC Drawing Number	967.9		



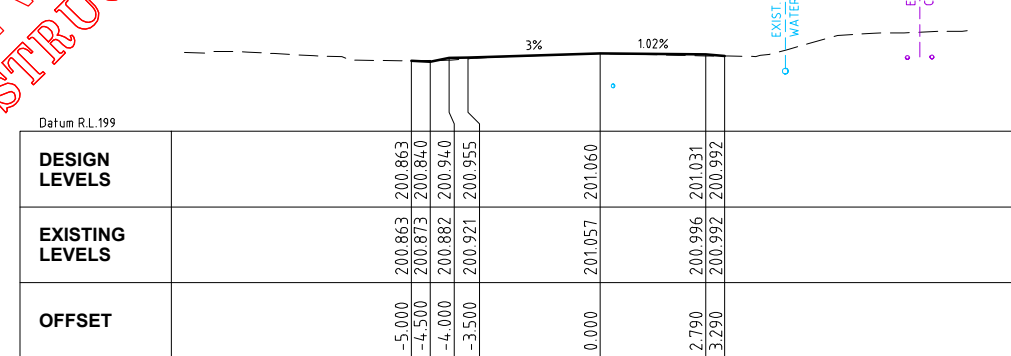
CH 30.00



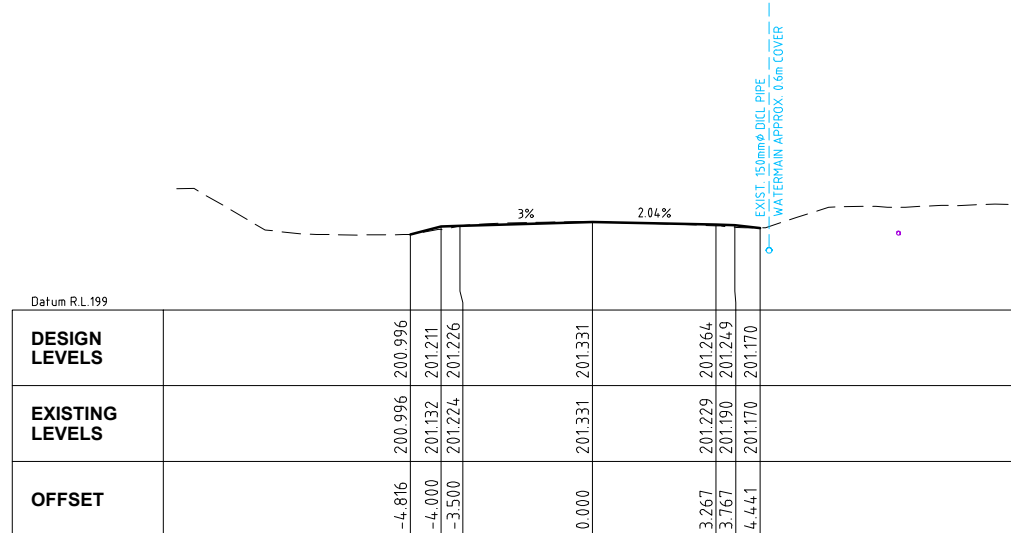
CH 53.00



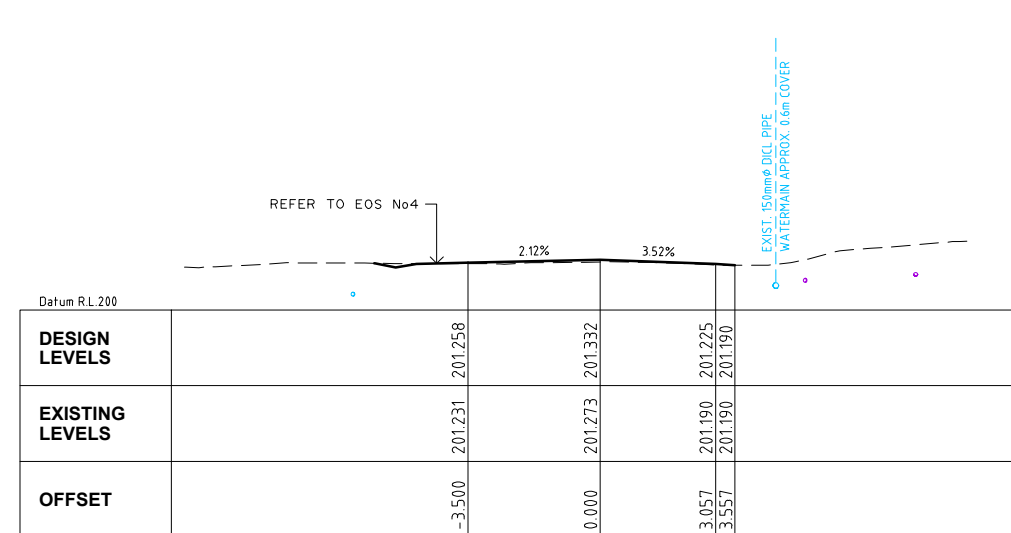
CH 20.00



CH 50.00



CH 10.00



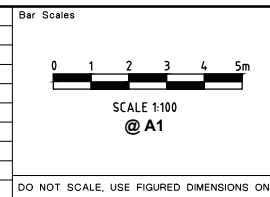
CH 40.00

PRELIMINARY
 NOT FOR CONSTRUCTION

**Hornsby Shire Council
Design & Construction
Branch**

TELEPHONE: 021 9847 6666
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Authorised for release - Manager Design & Construction
Name: R. RAJCA Signed: Date:

Designer S. COMISH	Design Checked-Design Team Leader		
Drawn A. MAXWELL	Signed:		
Surveyor J. HART	NA	NA	GDA94
Project Identifier\ACAD File Name	Field Book	Level Book	Datum
H:\Bayfield Rd_LR_101682\DESIGN\ACAD\Bayfield.dwg			
TRM Document Number	1	ISSUED FOR CONSTRUCTION	
	Issue	Description	M. DRAKE
			Name Initial Date
	Design not to be amended without authorisation by Manager Design & Construction		



**BAYFIELD ROAD, GALSTON
PROPOSED INTERSECTION IMPROVEMENTS**

CROSS SECTION CL3

Project Number	101682		
Sheet	of	Issue	
11	11	1	
HSC Drawing Number	967.9		