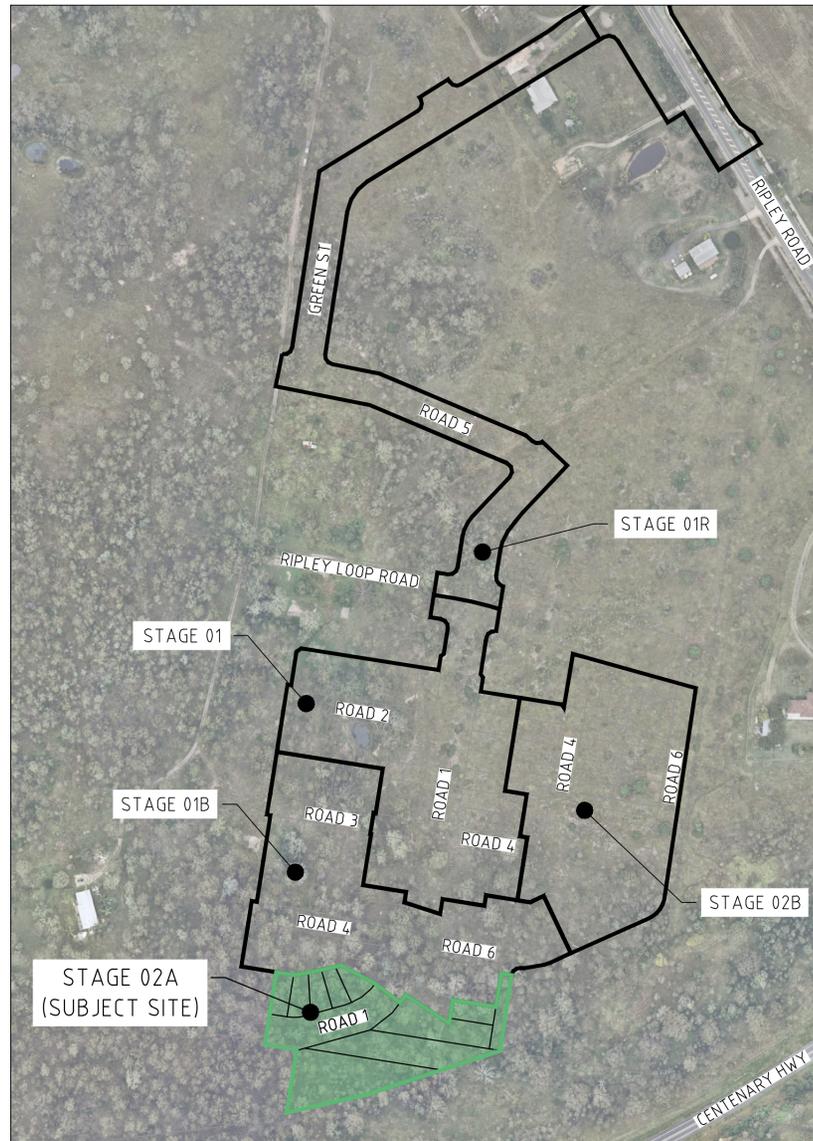


AMORY AT RIPLEY STAGE 02A RIPLEY ESTATE DEVELOPMENT PTY LTD



LOCALITY PLAN

NTS



DRAWING SCHEDULE	
DRAWING	DESCRIPTION
GENERAL	
320678-02A-C0100	DRAWING SCHEDULE & LOCALITY PLAN
320678-02A-C0101	GENERAL NOTES & LEGEND
320678-02A-C0102	CONTROL LINE LAYOUT PLAN & TYPICAL ROAD SECTIONS
EARTHWORKS	
320678-02A-C0200	EARTHWORKS LAYOUT PLAN
320678-02A-C0201	EARTHWORKS SITE SECTIONS
ROADWORKS	
320678-02A-C0300	ROADWORKS STANDARD NOTES & DETAILS
320678-02A-C0301	ROADWORKS LAYOUT PLAN
320678-02A-C0302	ROAD 1 LONGITUDINAL SECTION
320678-02A-C0303	ROAD 1 CROSS SECTIONS
320678-02A-C0304	DRIVEWAY LAYOUT PLAN
SIGNAGE & LINEMARKING	
320678-02A-C0400	SIGNAGE & LINEMARKING DETAILED LAYOUT PLAN
STORMWATER DRAINAGE	
320678-02A-C0500	STORMWATER DRAINAGE STANDARD NOTES & DETAILS
320678-02A-C0501	STORMWATER DRAINAGE CATCHMENT PLAN
320678-02A-C0502	STORMWATER DRAINAGE LONGITUDINAL SECTION
SAFETY IN DESIGN REPORT	
320678-02A-C0900	SAFETY IN DESIGN REPORT



WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

File name: 320678-02A-C0100.dwg layout name: C0100 plotted by: Charlene Chessells

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
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NOT TO SCALE



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Designed
T.MULLEN

Checked
K. HOWELLS

Authorised
M. READMAN RPEQ 28295

Date
MARCH 24

**AMORY AT RIPLEY
STAGE 02A
DRAWING SCHEDULE & LOCALITY PLAN**

IPSWICH CITY COUNCIL
RIPLEY ESTATE DEVELOPMENT PTY LTD

CONSTRUCTION Drg No **320678-02A-C0100** Rev **1**

NOTES:

GENERAL

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, SPECIFICATIONS, APPROVED AUTHORITY SPECIFICATIONS AND STANDARD DRAWINGS, AUSTRALIAN STANDARDS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE COUNCIL ENGINEER OR THEIR REPRESENTATIVE.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB.
- CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING SURFACES AND CONNECTION POINTS INCLUDING CONNECTION LEVELS AND ADVISE THE SUPERINTENDENT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT ON SITE.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IMPLEMENTED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLANS, BEST PRACTICE AND IN ACCORDANCE WITH INTERNATIONAL EROSION CONTROL ASSOCIATION PRACTICES AND GUIDELINES.
- PROJECT SURVEYOR SHALL PEG COMMON BOUNDARY WITH ADJOINING PROPERTIES.
- CONTRACTOR SHALL ASSESS LOCATION AND LEVEL OF ANY EXISTING FENCING AND RETAINING WALLS RELATIVE TO PROPOSED RETAINING WALL CONSTRUCTION.
- CONTRACTOR MUST PROVIDE TEMPORARY PROPPING AS NECESSARY TO ENSURE THAT PROPOSED CONSTRUCTION WORKS DO NOT CAUSE ANY DAMAGE OR DRAINAGE ISSUES TO EXISTING NEIGHBORING PROPERTIES.
- CONTRACTOR TO PROVIDE DILAPIDATION REPORT OF ALL ASSETS IN THE VICINITY OF WORKS

EARTHWORKS

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES.
- THE CONTRACTOR SHALL ADVISE THE COUNCIL INSPECTOR OF THE PROPOSED SOURCE OF IMPORTED FILL TO BE BROUGHT ONTO THE DEVELOPMENT SITE AND PROVIDE CERTIFICATION (IF REQUESTED BY COUNCIL) FROM THE SUPPLIER / GEOTECHNICAL CONSULTANT.
- THE CONTRACTOR SHALL ALSO ADVISE THE COUNCIL INSPECTOR OF THE PROPOSED HAUL ROUTE TO BE TAKEN BY ANY TRUCKS DELIVERING FILL TO THE PROPOSED DEVELOPMENT SITE.
- IT IS THE PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO FILL MATERIAL IS DEPOSITED ONTO THE ROADS USED BY DELIVERY TRUCKS. ANY MATERIAL DEPOSITED ONTO ROADWAYS SHALL BE CLEANED AS NECESSARY TO AVOID CAUSING NUISANCE TO VEHICLE TRAFFIC.
- ALL WORK SHALL BE IN ACCORDANCE WITH IPSWICH CITY COUNCIL DESIGN STANDARDS.
- ALL EARTHWORKS & WORKS ASSOCIATED WITH PROPOSED DEVELOPMENT SHALL BE UNDERTAKEN IN STRICT ACCORDANCE WITH THE PROJECT SPECIFIC GEOTECHNICAL REPORT AND AS3978.
- WORKS MUST BE UNDERTAKEN IN ACCORDANCE WITH BUTLER PARTNERS REPORTS 010-218K - '633 RIPLEY ROAD' & '695 AND 787-815 RIPLEY ROAD' 31/01/2021
- WHERE NEW WORK ABUTS EXISTING WORK THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- THE PLACEMENT OF ALL FILL TO BE INSPECTED, TESTED AND CERTIFIED BY A GEOTECHNICAL ENGINEER TO A LEVEL 1 REQUIREMENT DURING THE EARTHWORKS OPERATIONS TO ENSURE THAT ALL FILL IS PLACED IN A "CONTROLLED MANNER", IN ACCORDANCE WITH AS3798 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS".
- THE CONTRACTOR IS RESPONSIBLE FOR ENGAGING A NATA ACCREDITED GEOTECHNICAL CONSULTANT TO SUPERVISE ALL EARTHWORKS PROCEDURES AND PROVIDE LEVEL 1 TESTING AND CERTIFICATION IN ACCORDANCE WITH THE REQUIREMENTS OF AS3798.
- STRIPPED TOPSOIL SHALL BE STOCKPILED WITHIN THE DEVELOPMENT SITE IN A POSITION APPROVED BY THE SUPERINTENDENT.
- ANY IMPORTED FILL SHALL BE APPROVED AND FREE OF ORGANIC MATTER WITH CERTIFICATES PROVIDED
- FILL SHALL BE PLACED IN MAXIMUM 150mm LAYERS

LOCATION	MINIMUM DRY DENSITY RATIO (%)
BUILDING PADS	REFER SITE SPECIFIC GEOTECHNICAL REPORT RECOMMENDATIONS
ROADWAYS	
a) >0.5m BELOW PAVEMENT SUBGRADE	95 (Std.)
b) <0.5m BELOW PAVEMENT SUBGRADE	100 (Std.)
NOTE: THE RECOMMENDED COMPACTIONS ARE PERCENTAGES OF THE MAXIMUM DRY DENSITY DETERMINED BY AUSTRALIAN STANDARD 1289	

ROAD CONSTRUCTION

- CONCRETE WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH AS3600 AND RELEVANT AUTHORITY STANDARDS.
- ONCE EXCAVATION TO SUBGRADE LEVEL HAS OCCURRED, CONTRACTOR TO PROVIDE CBR TEST RESULTS TO SUPERINTENDENT FOR FINAL PAVEMENT DESIGN CONFIRMATION.
- PRIOR TO PLACING EACH LAYER OF PAVEMENT, COMPACTION TEST RESULTS ARE TO BE PROVIDED TO SUPERINTENDENT FOR ACCEPTANCE.
- CONSTRUCTION OF KERB TO BE IN ACCORDANCE WITH RELEVANT COUNCIL STANDARDS.
- ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION. TESTING TO OCCUR AT MINIMUM 40m INTERVALS- 1 TEST FOR EVERY 2 LAYERS.

LOCATION	DENSITY RATIO (%)	TYPE
PAVEMENT	95	MODIFIED MAXIMUM DRY DENSITY
ROADWAYS		
a) >0.5m BELOW PAVEMENT SUBGRADE	95	STANDARD MAXIMUM DRY DENSITY
b) <0.5m BELOW PAVEMENT SUBGRADE	100	

GENERAL STORMWATER DRAINAGE

- AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE WITH CLEANOUTS AS REQUIRED.
- ALL STORMWATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN.
- ALL PIPES ≤600 DIAMETER TO BE RUBBER RING JOINTED (R.R.J.) UNLESS STATED OTHERWISE. ALL OTHER PIPES TO BE FLUSH JOINTED (F.J.) UNLESS STATED OTHERWISE.
- ALL DRAINAGE AND DRAINAGE STRUCTURES TO BE IN ACCORDANCE WITH COUNCIL STANDARDS WITH THE INSTALLATION OF HEAVY DUTY LIDS.
- CONCRETE WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH AS3600 AND RELEVANT AUTHORITY STANDARDS.

PAVEMENT

- PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
- WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.
- WHEN PAVEMENT EXCAVATION IS IN ROCK ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.

SIGNAGE AND LINEMARKING

- LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742 SERIES UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL/AUTHORITY STANDARDS.
- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742
- TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.

CONCRETE

- CONCRETE WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH AS3600 AND RELEVANT AUTHORITY STANDARDS.

RETAINING WALLS

- RETAINING WALLS SHOWN ON THESE CIVIL DRAWINGS INDICATE ONLY THE RETAINING WALL TYPE, LOCATION, HEIGHT AND RELATIVITY TO BOUNDARIES OR OTHER KNOWN ELEMENTS. ALL RETAINING WALL STRUCTURAL AND OTHER SPECIFICATION SHALL BE DETAILED BY OTHERS. THE APPOINTED CONTRACTOR SHALL REVIEW ALL DEVELOPMENT APPROVAL CONDITIONS, PLANS AND SPECIFICATIONS TO ENSURE THAT ALL RETAINING WALL LOADS, ANCILLARY DRAINAGE (SUBSOIL & SURFACE DRAINAGE) AND CONSTRAINTS ARE ACCOMMODATED (INCLUDING ANY FUTURE FENCES WHICH MAY BE ATTACHED), AND SHALL SUPPLY THE SUPERVISING ENGINEER ALL POST-CONSTRUCTION CERTIFICATIONS NECESSARY FOR RELEVANT LOCAL AUTHORITY ACCEPTANCE. FOR WORKS WITHIN QUEENSLAND THIS SHALL INCLUDE (BUT NOT LIMITED TO) QUEENSLAND GOVERNMENT - "FORM 15" AND "FORM 12" CERTIFIED BY AN R.P.E.Q. ENGINEER.

LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN	--- DW ---	— DW —
ELECTRICITY	--- E ---	— S —
SEWER & MAINTENANCE STRUCTURE	--- S ---	— S —
STORMWATER DRAIN & PIT	--- SWD ---	— SWD —
STORMWATER PITS		
KERB ADAPTOR		
ROOFWATER HOUSE CONNECTION DIRECT TO GULLY		
AG DRAIN AND FLUSHER	→ AG →	→ AG →
STORM WATER DRAINAGE PIT NUMBER		
KERB AND CHANNEL TYPE M1		
SURFACE CONTOUR MAJOR	--- 169.00 ---	— 169.00 —
SURFACE CONTOUR MINOR	--- 168.90 ---	— 168.90 —
SIGN AND POST		
LIGHT & POLE (BY OTHERS)		
STREET SIGN		
ROAD CENTERLINE	--- CH200.000 ---	— CH200.000 —
ROAD CHAINAGES		
BATTER		
CUT EXTENTS		
FILL EXTENTS		
ROCK PITCHING		
FENCES		
TREE		
ROAD PAVEMENT - TYPE A		
ROAD PAVEMENT - DRIVEWAY		
FOOTPATH		
RETAINING WALL		
RETAINING WALL HEIGHT		(2.0)

file name: 320678-02A-C0101.dwg layout name: C0101 plotted by: Charlene Chessells

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	KH	18-11-24
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A	ISSUE FOR TENDER	K.H.	15-03-24

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Designed: T.MULLEN

 Checked: K. HOWELLS

 Authorised: M. READMAN RPEQ 28295

 Date: MARCH 24

AMORY AT RIPLEY

STAGE 02A

GENERAL NOTES & LEGEND

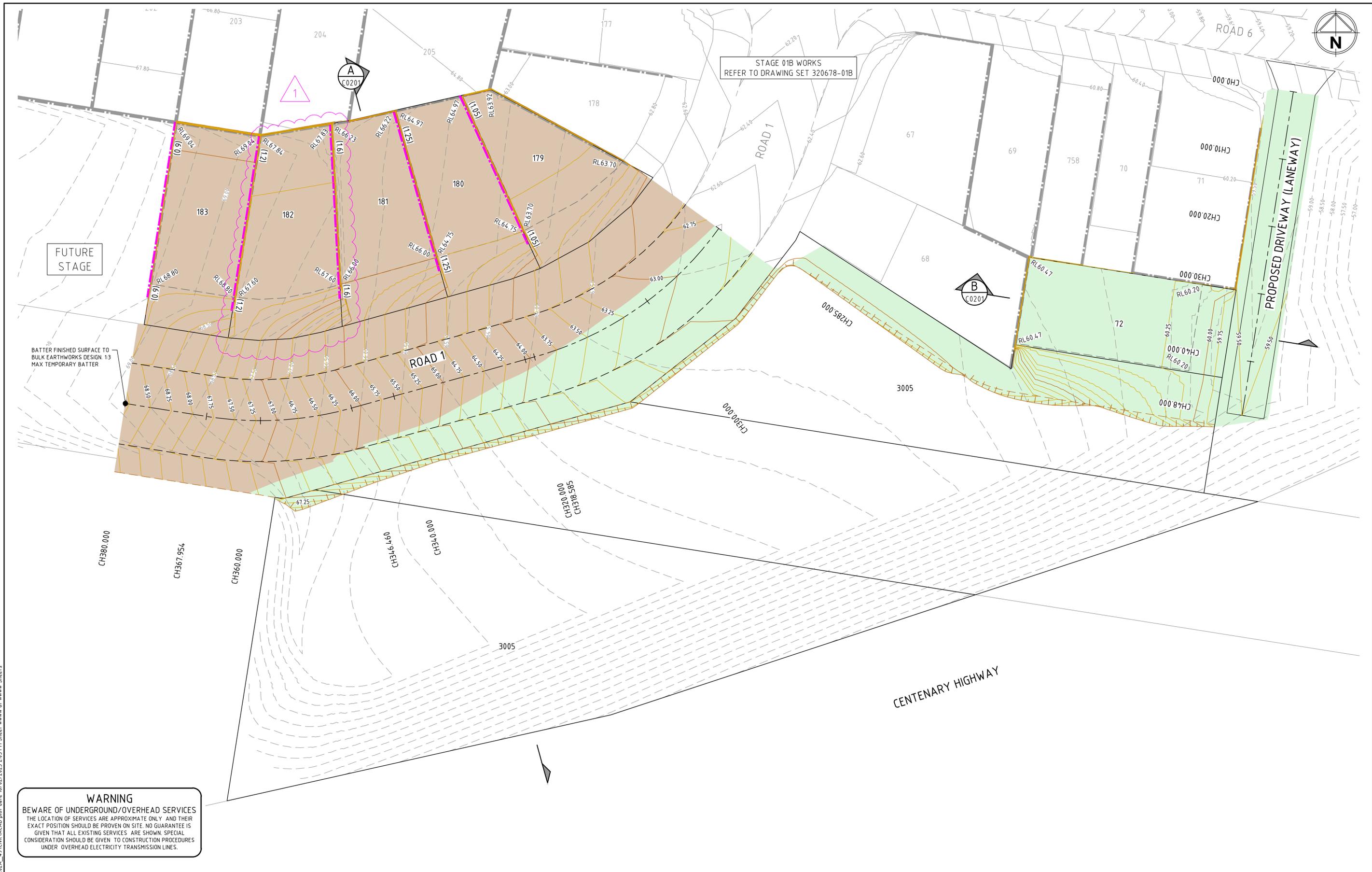
 IPSWICH CITY COUNCIL

 RIPLEY ESTATE DEVELOPMENT PTY LTD

CONSTRUCTION

 Drg No: 320678-02A-C0101

 Rev: 1



STAGE 01B WORKS
REFER TO DRAWING SET 320678-01B

FUTURE
STAGE

BATTER FINISHED SURFACE TO
BULK EARTHWORKS DESIGN. 1:3
MAX TEMPORARY BATTER

ROAD 1

ROAD 1

ROAD 6

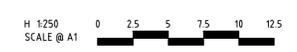
PROPOSED DRIVEWAY (LANEWAY)

CENTENARY HIGHWAY

WARNING
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UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

file location: C:\Users\spire\OneDrive\Documents\320678-02A_49\Civil\CAD\plot date: 18/02/2025 2:03 PM Sheet: ### of ### Sheets

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Designed
T.MULLEN

Checked
K. HOWELLS

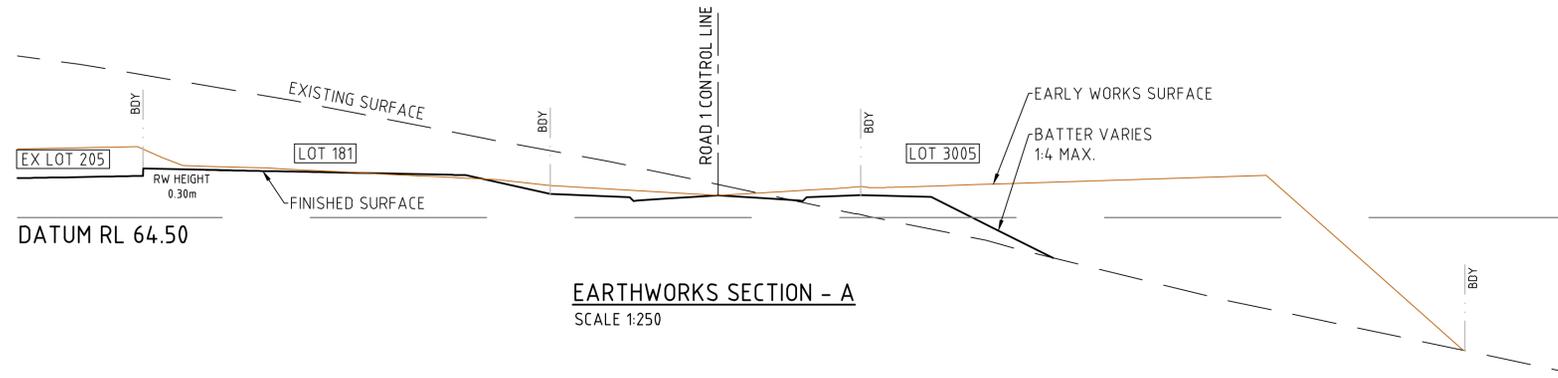
Authorised
M. READMAN RPEQ 28295

Date
MARCH 24

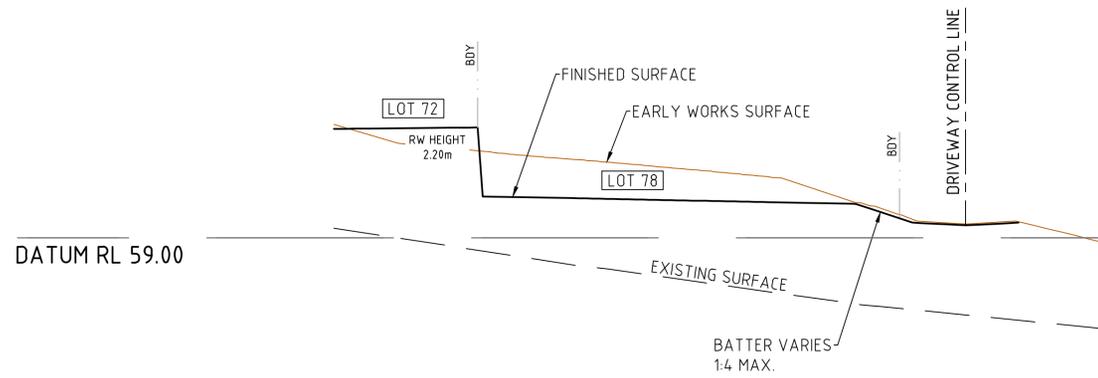
AMORY AT RIPLEY
STAGE 02A
EARTHWORKS LAYOUT PLAN

IPSWICH CITY COUNCIL
RIPLEY ESTATE DEVELOPMENT PTY LTD

CONSTRUCTION Drg No 320678-02A-C0200 Rev 1



EARTHWORKS SECTION - A
SCALE 1:250

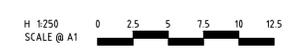


EARTHWORKS SECTION - B
SCALE 1:250

RETAINING WALLS TYPICAL NOTE:
RETAINING WALLS SHOWN ON THESE CIVIL DRAWINGS INDICATE ONLY THE RETAINING WALL TYPE, LOCATION, HEIGHT AND RELATIVITY TO BOUNDARIES OR OTHER KNOWN ELEMENTS. ALL RETAINING WALL STRUCTURAL AND OTHER SPECIFICATION SHALL BE DETAILED BY OTHERS. THE APPOINTED CONTRACTOR SHALL REVIEW ALL DEVELOPMENT APPROVAL CONDITIONS, PLANS AND SPECIFICATIONS TO ENSURE THAT ALL RETAINING WALL LOADS, ANCILLARY DRAINAGE (SUBSOIL & SURFACE DRAINAGE) AND CONSTRAINTS ARE ACCOMMODATED (INCLUDING ANY FUTURE FENCES WHICH MAY BE ATTACHED), AND SHALL SUPPLY THE SUPERVISING ENGINEER ALL POST-CONSTRUCTION CERTIFICATIONS NECESSARY FOR RELEVANT LOCAL AUTHORITY ACCEPTANCE. FOR WORKS WITHIN QUEENSLAND THIS SHALL INCLUDE (BUT NOT LIMITED TO) QUEENSLAND GOVERNMENT - DEPARTMENT OF LOCAL GOVERNMENT AND PLANNING IDAS "FORM 15" AND "FORM 16" CERTIFIED BY AN R.P.E.Q. ENGINEER.

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Designed: T.MULLEN
Checked: K. HOWELLS
Authorised: M. READMAN RPEQ 28295
Date: MARCH 24

AMORY AT RIPLEY
STAGE 02A
EARTHWORKS SITE SECTIONS

IPSWICH CITY COUNCIL
RIPLEY ESTATE DEVELOPMENT PTY LTD

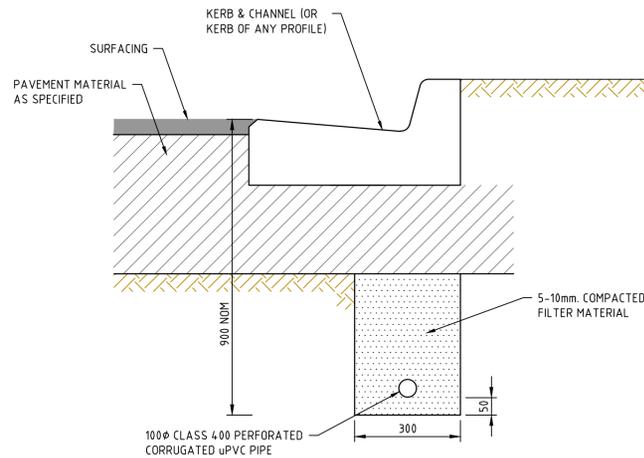
CONSTRUCTION Drg No: 320678-02A-C0201 Rev: 1

DESIGN PAVEMENT PROFILE- TYPE C

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		TYPE C*
WEARING SURFACE	ASPHALT CONCRETE AC14M	35
PRIMER SEAL	AMCO OR AMCO0 PRIME	YES
BASE COURSE	TYPE 2.1 (MIN CBR 80)	125
UPPER PAVEMENT TOTAL		
UPPER SUBBASE	TYPE 2.3 (MIN CBR 45)	100
LOWER SUBBASE	TYPE 2.5 (MIN CBR 15)	195
TOTAL PAVEMENT DEPTH		455

ROAD NAME	TYPE
ROAD 1	TYPE C

NOTE:
THE PAVEMENT DEPTHS ARE INDICATIVE ONLY. PAVEMENT DESIGN IS SUBJECT TO CONFIRMATION WITH GEOTECHNICAL TESTING AND RPEQ CERTIFIED PAVEMENT DESIGN REPORT.



SUBSURFACE PAVEMENT DRAIN

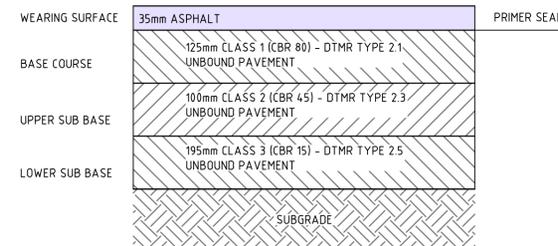
REFER TO ICC STANDARD DWG NO. SR.20
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MEDIAN INFILL

100mm N32 CONCRETE WITH 50mm SAND- REFER IPWEA RS-065

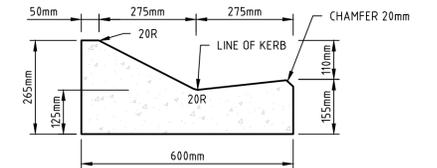
FOOTPATHS

100mm N25 CONCRETE- SL72 50 TOP COVER- REFER ICC SR.19



PAVEMENT TYPE C

ROAD 1

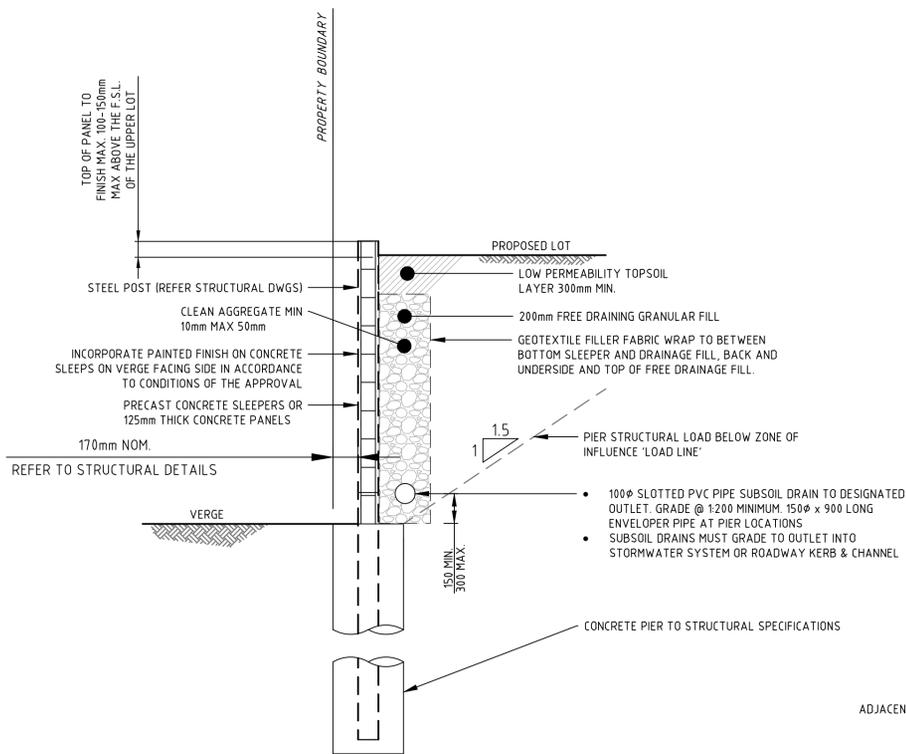


TYPE M1 MOUNTABLE KERB

N.T.S

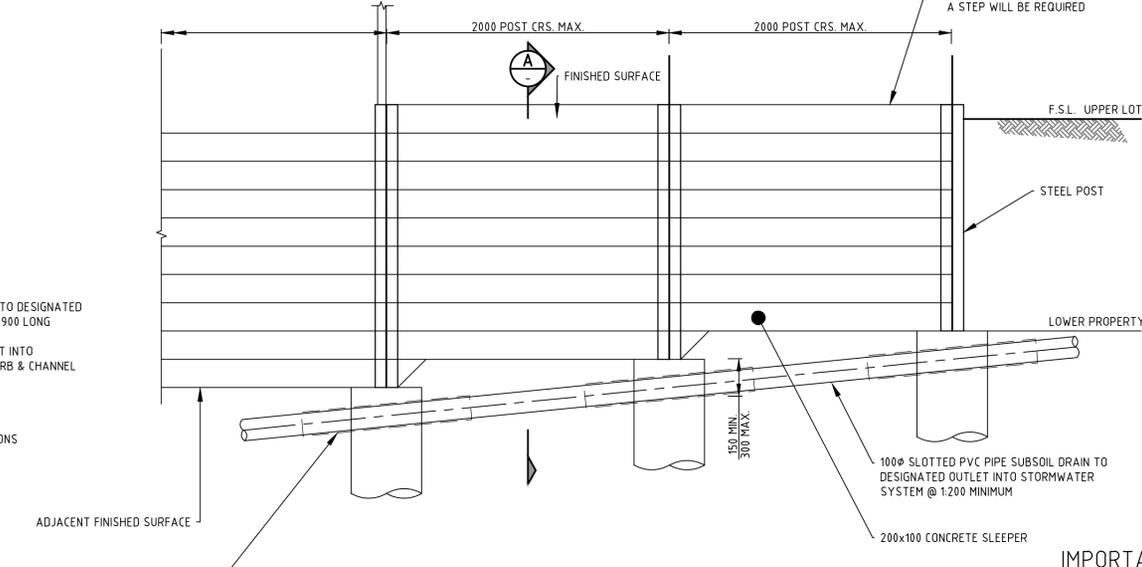
STANDARD KERB PROFILES

NOTE: ALL KERB & CHANNEL AS PER IPWEA STD DRAWING RS.080 UNLESS STATED OTHERWISE



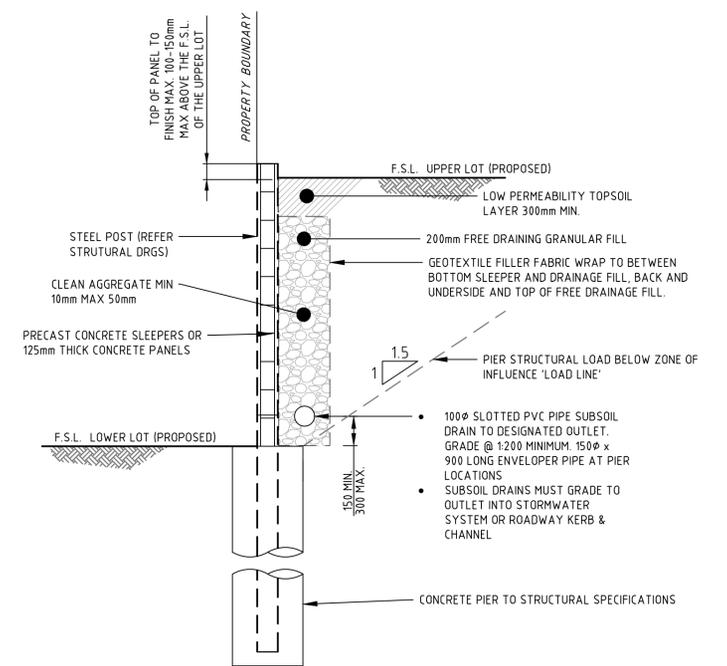
RETAINING WALL FRONTING ROAD RESERVE

Scale 1:25



TYPICAL RETAINING WALL PART ELEVATION

Scale 1:25



SECTION - A

Scale 1:25

IMPORTANT NOTES:-

- RETAINING WALLS/PROPERTY BOUNDARY**
- RETAINING WALL STRUCTURE (INCLUDING FOOTING) MUST NOT ENCR OACH BEYOND PROPERTY BOUNDARY ONTO EXTERNAL PROPERTY OWNED BY OTHERS, OR COUNCIL PROPERTY.
 - FOOTING OF RETAINING WALL IS ONLY PROPOSED TO ENCR OACH OVER BOUNDARY ONTO OTHER LOTS WITHIN PROPOSED DEVELOPMENT - WHICH ARE PROPOSED TO HAVE COVENANT (OR EASEMENT) WHICH PERMITS SUCH ENCR OACHMENT.
 - THE CONTRACTOR SHALL ENSURE THAT PROPERTY BOUNDARIES ARE PEGGED ON-SITE AND RETAINING WALL LOCATIONS VERIFIED WITH THE SUPERINTENDENT PRIOR TO CONSTRUCTION.
 - THE BOUNDARY / RETAINING WALL CONFIGURATIONS DETAILS SHOWN ARE TYPICAL DETAILS ONLY. THE CONTRACTOR MUST ASCERTAIN WHICH CONFIGURATION APPLIES AT ALL LOCATIONS.
 - SHOULD ANY DOUBT EXIST TO THE REQUIRED LOCATION OF RETAINING WALL - THE CONTRACTOR SHALL SEEK DIRECTION FROM THE SUPERINTENDENT.

RETAINING WALL FRONTING ROAD RESERVE NOTE:-
CONTRACTOR TO CONFIRM STRUCTURAL DETAILS TO ENSURE ALL RETAINING WALL FOOTINGS ARE WITHIN PRIVATE PROPERTY.

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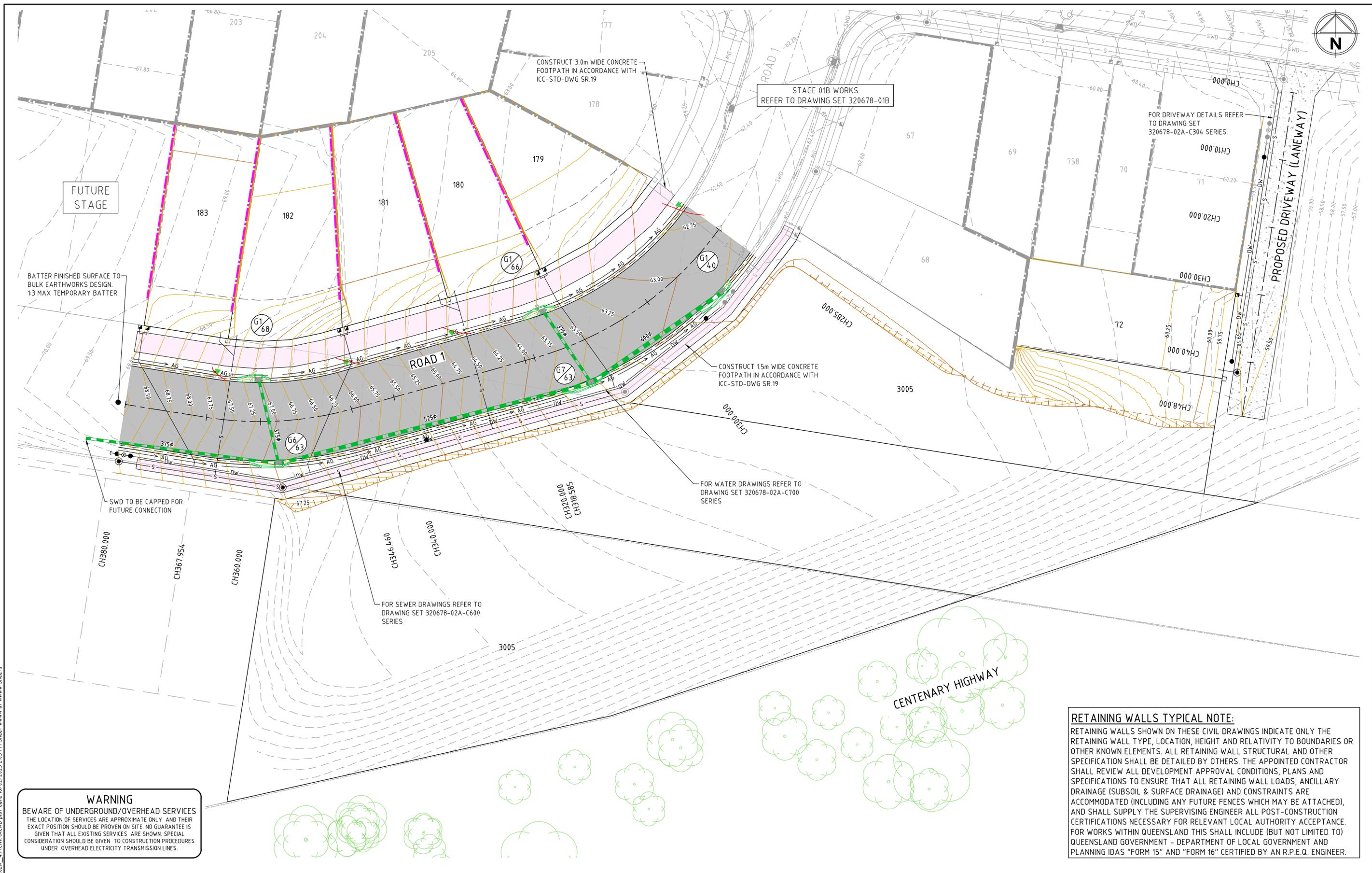
Designed
T.MULLEN
 Authorised
M. READMAN RPEQ 28295

Checked
K. HOWELLS
 Date
MARCH 24

AMORY AT RIPLEY
STAGE 02A
ROADWORKS STANDARD NOTES & DETAILS

IPSWICH CITY COUNCIL
 RIPLEY ESTATE DEVELOPMENT PTY LTD

CONSTRUCTION Drg No **320678-02A-C0300** Rev **1**

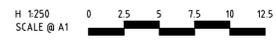


WARNING
 BEWARE OF UNDERGROUND/OVERHEAD SERVICES
 THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

RETAINING WALLS TYPICAL NOTE:
 RETAINING WALLS SHOWN ON THESE CIVIL DRAWINGS INDICATE ONLY THE RETAINING WALL TYPE, LOCATION, HEIGHT AND RELATIVITY TO BOUNDARIES OR OTHER KNOWN ELEMENTS. ALL RETAINING WALL STRUCTURAL AND OTHER SPECIFICATION SHALL BE DETAILED BY OTHERS. THE APPOINTED CONTRACTOR SHALL REVIEW ALL DEVELOPMENT APPROVAL CONDITIONS, PLANS AND SPECIFICATIONS TO ENSURE THAT ALL RETAINING WALL LOADS, ANCILLARY DRAINAGE (SUBSOIL & SURFACE DRAINAGE) AND CONSTRAINTS ARE ACCOMMODATED (INCLUDING ANY FUTURE FENCES WHICH MAY BE ATTACHED), AND SHALL SUPPLY THE SUPERVISING ENGINEER ALL POST-CONSTRUCTION CERTIFICATIONS NECESSARY FOR RELEVANT LOCAL AUTHORITY ACCEPTANCE. FOR WORKS WITHIN QUEENSLAND THIS SHALL INCLUDE (BUT NOT LIMITED TO) QUEENSLAND GOVERNMENT - DEPARTMENT OF LOCAL GOVERNMENT AND PLANNING IDAS "FORM 15" AND "FORM 16" CERTIFIED BY AN R.P.E.Q. ENGINEER.

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Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
B	ISSUED FOR APPROVAL	K.H.	05-09-24
A	ISSUE FOR TENDER	K.H.	15-03-24



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AMORY
 AT RIPLEY
 Designed: T.MULLEN
 Checked: K.HOWELLS
 Authorised: M. READMAN RPEQ 28295
 Date: MARCH 24

AMORY AT RIPLEY
STAGE 02A
ROADWORKS LAYOUT PLAN
 IPSWICH CITY COUNCIL
 RIPLEY ESTATE DEVELOPMENT PTY LTD
CONSTRUCTION Drg No: 320678-02A-C0301 Rev: 1

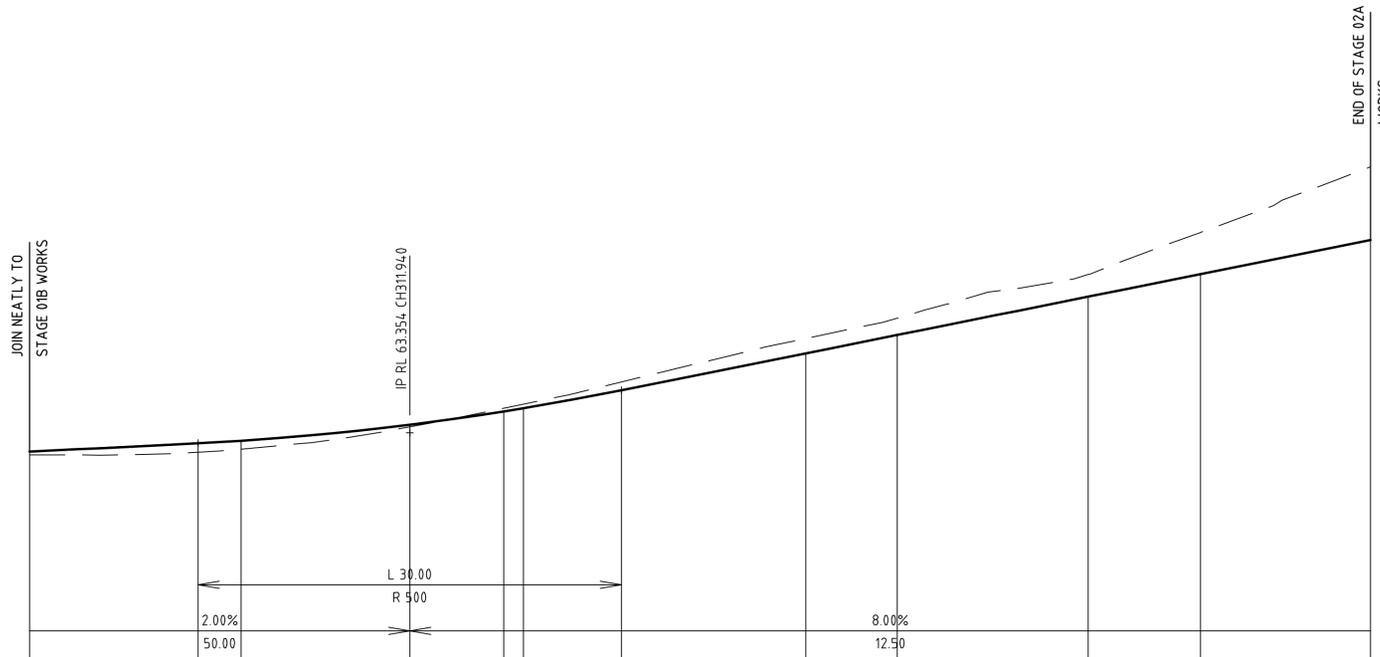
Vertical Curve Length (m)
 Vertical Curve Radius (m)
 Vertical Grade (%)
 Vertical Grade (1 in ...)

DATUM RL55.000

	285.000	296.940	300.000	311.940	318.585	320.000	326.940	340.000	346.460	360.000	367.954	380.000
DESIGN LEVELS LEFT LIP OF KERB	62.644	62.883	62.953	63.408	63.784	63.876	64.383	65.427	65.944	67.027	67.664	68.627
DESIGN LEVELS RIGHT LIP OF KERB	62.644	62.883	62.953	63.408	63.784	63.876	64.383	65.427	65.944	67.027	67.664	68.627
CUT / FILL DEPTH	0.093	0.257	0.243	0.067	-0.088	-0.113	-0.232	-0.419	-0.474	-0.621	-1.183	-2.074
DESIGN LEVELS ON ROAD CL	62.816	63.054	63.125	63.579	63.956	64.047	64.554	65.599	66.116	67.199	67.836	68.799
EXISTING SURFACE ON ROAD CL	62.723	62.798	62.882	63.513	64.044	64.161	64.786	66.019	66.590	67.827	69.018	70.873
CHAINAGE		296.940	300.000	311.940	318.585	320.000	326.940	340.000	346.460	360.000	367.954	380.000

LONGITUDINAL SECTION - ROAD 1

SCALE HORIZONTAL 1 : 250
 VERTICAL 1 : 100



CONTROL LINE - ROAD 1 - HORIZONTAL POINTS								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
TC	269.290	9926.156	37018.319	62.501	197°55'39.23"			
	270.000	9925.932	37017.646	62.516	198°44'26.45"			
	280.000	9921.797	37008.559	62.716	210°11'59.41"			
	290.000	9915.939	37000.475	62.916	221°39'32.37"			
IP 3	293.938	9917.888	36992.765	62.994		R = 50.000	4.9295	56°29'15.32"
	300.000	9908.592	36993.716	63.125	233°07'05.33"			
	310.000	9900.048	36988.552	63.486	244°34'38.29"			
CT	318.585	9892.016	36985.549	63.956	254°24'54.55"			
	320.000	9890.654	36985.168	64.047	254°24'54.55"			
	330.000	9881.021	36982.482	64.799	254°24'54.55"			
	340.000	9871.389	36979.795	65.599	254°24'54.55"			
TC	346.460	9865.166	36978.059	66.116	254°24'54.55"			
	350.000	9861.726	36977.230	66.399	258°28'16.46"			
	357.207	9854.652	36975.127	66.976		R = 50.000	21.494	24°37'49.52"
IP 4	360.000	9851.794	36976.221	67.199	269°55'49.42"			
	367.954	9843.872	36976.843	67.836	279°02'44.07"			
CT	370.000	9841.852	36977.164	67.999	279°02'44.07"			
	380.000	9831.976	36978.737	68.799	279°02'44.07"			
	390.000	9822.100	36980.309	69.599	279°02'44.07"			
	400.000	9812.225	36981.881	70.399	279°02'44.07"			

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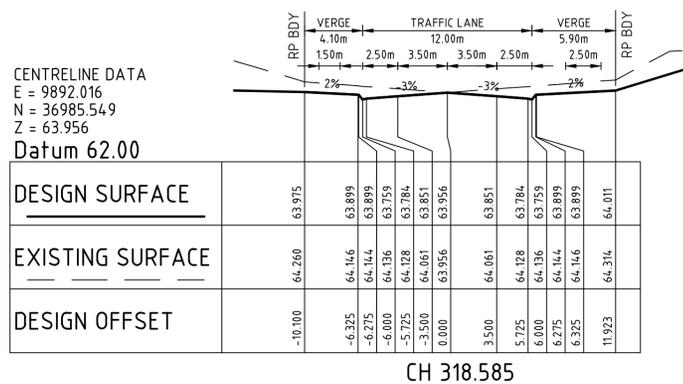
Designed
T.MULLEN
 Authorised
M. READMAN RPEQ 28295
 Checked
K. HOWELLS
 Date
MARCH 24

**AMORY AT RIPLEY
 STAGE 02A
 ROAD 1 LONGITUDINAL SECTION**

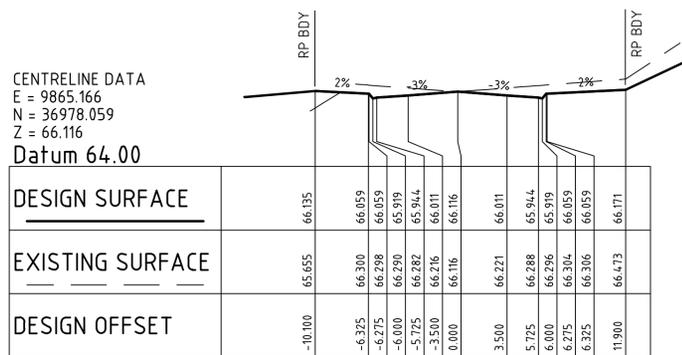
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 RIPLEY ESTATE DEVELOPMENT PTY LTD

CONSTRUCTION Drg No **320678-02A-C0302** Rev **1**

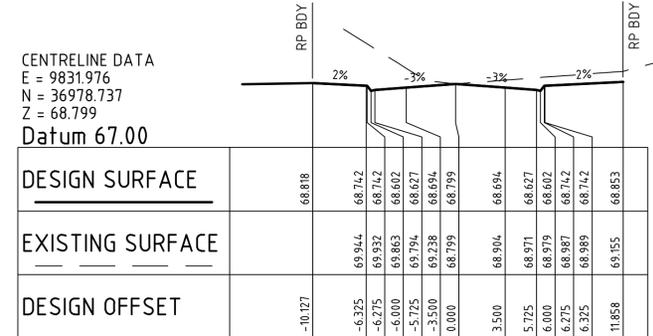
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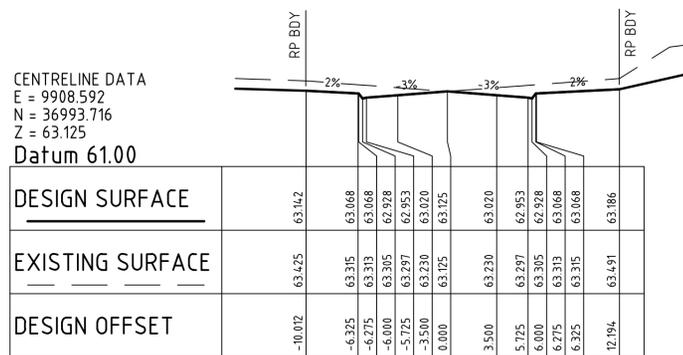
CH 318.585



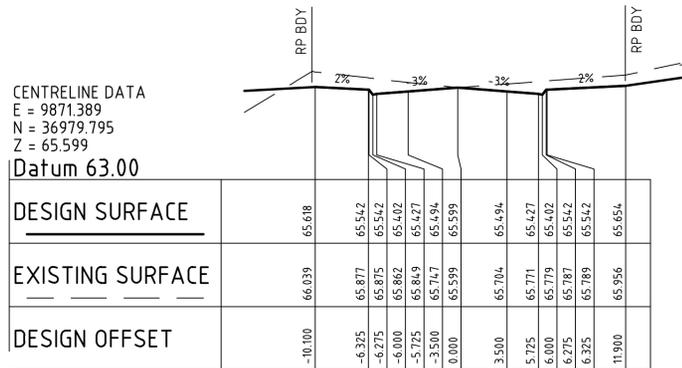
CH 346.460



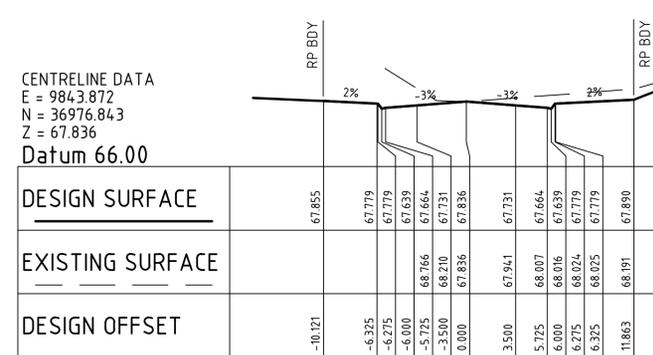
CH 380.000



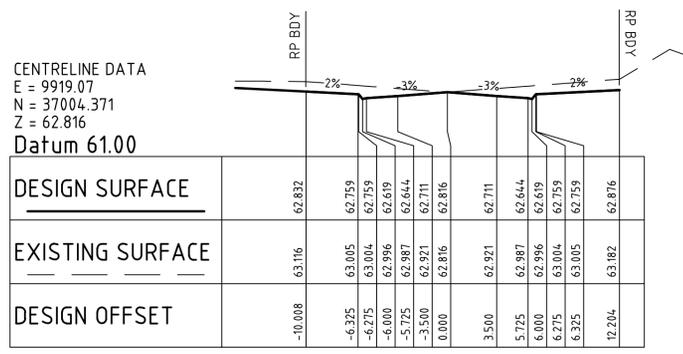
CH 300.000



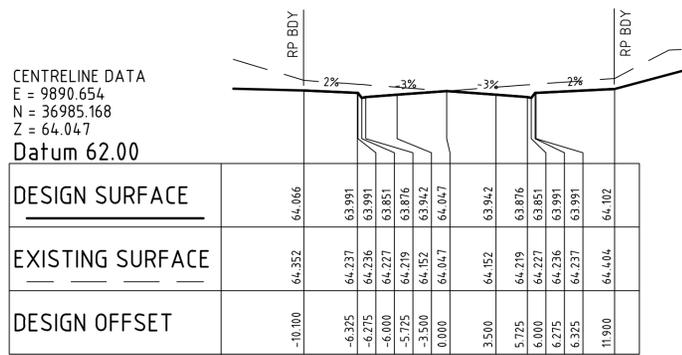
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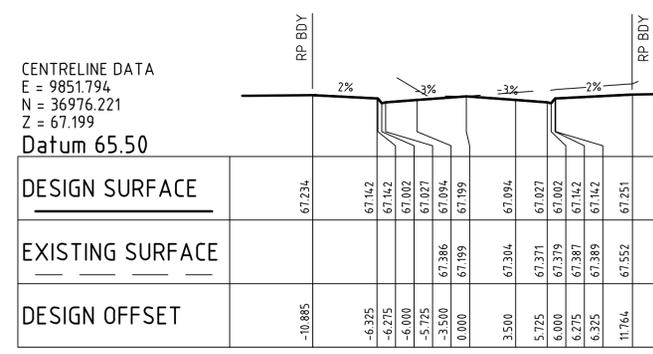
CH 367.954



CH 285.000



CH 320.000



CH 360.000

CROSS SECTIONS - ROAD 1 - CH285.000 TO CH380.000

SCALE HORIZONTAL 1: 250
VERTICAL 1: 100



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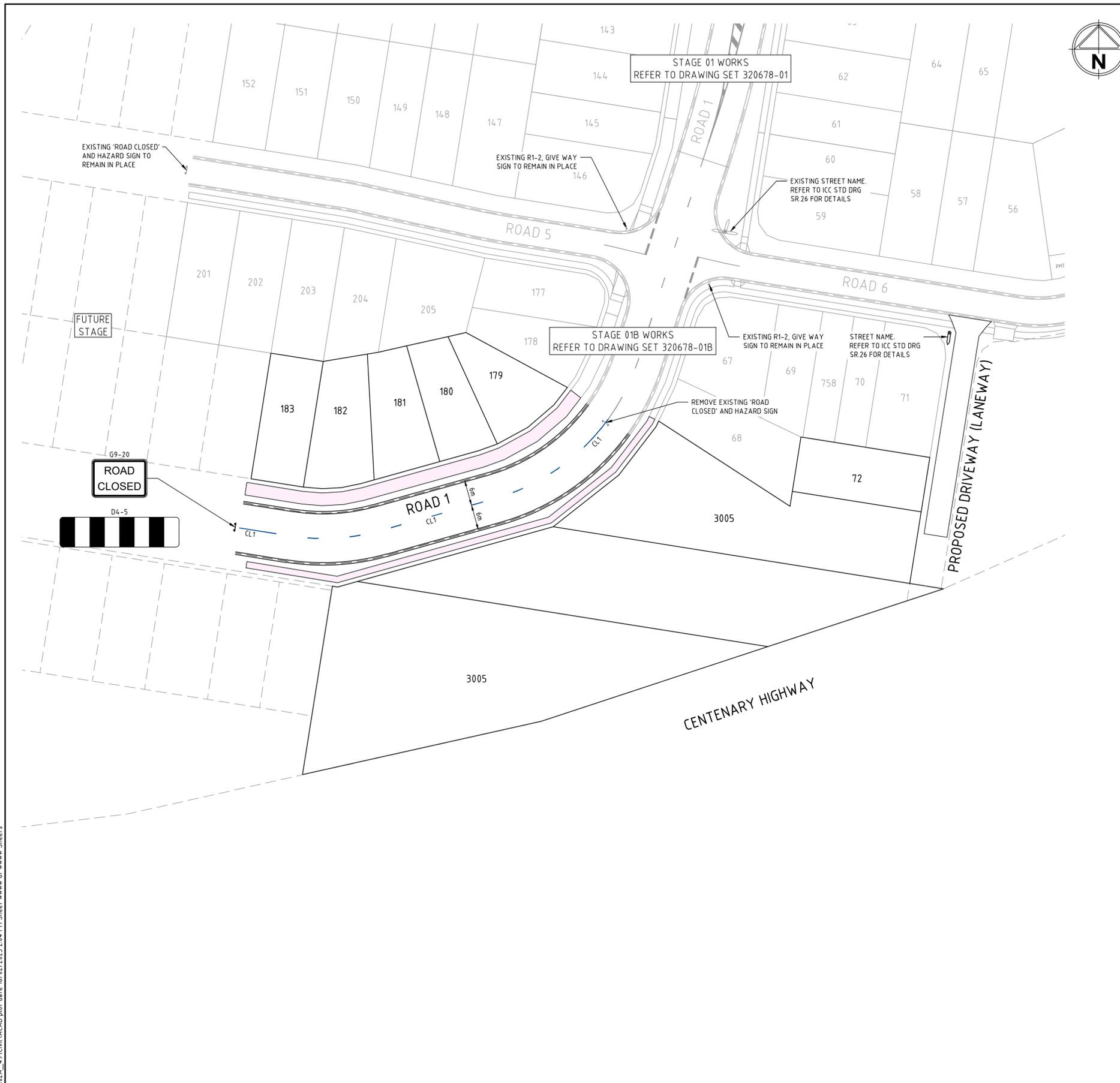
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Authorised
M. READMAN RPEQ 28295
Checked
K. HOWELLS
Date
MARCH 24

AMORY AT RIPLEY
STAGE 02A
ROAD 1 CROSS SECTIONS

IPSWICH CITY COUNCIL
RIPLEY ESTATE DEVELOPMENT PTY LTD

CONSTRUCTION Drg No 320678-02A-C0303 Rev 1

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Rev	Amendments	Approved	Date



LINEMARKING LEGEND:

SYMBOL:	DESCRIPTION:	REMARK:
— CL1 —	CONTINUITY LINE	1m LINE, 3m GAP, 150mm WIDE. AS1742.2 CLAUSE 5.3

NOTES

1. T.G.S.I.'s TO BE PROVIDED FOR ALL KERB RAMPS AT SIGNALISED INTERSECTION, REFER TO ICC STD DWG SR.18 FOR DETAILS.
2. ALL PAVEMENT MARKINGS AND SIGNAGE TO BE IN ACCORDANCE WITH TMR AND AS1742 MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES.
3. FOR SIGNAGE AND ASSEMBLY DETAILS REFER TMR MANUAL OF UNIFORM CONTROL DEVICES.
4. EXISTING PAVEMENT MARKING ARE TO BE REMOVED BY GRINDING.
5. LINEMARKING SHALL BE DULUX ROADMASTER WATER BASED PAVEMENT MARKING OR APPROVED EQUIVALENT.

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Designed
T.MULLEN

Checked
K. HOWELLS

Authorised
M. READMAN RPEQ 28295

Date
MARCH 24

**AMORY AT RIPLEY
STAGE 02A
SIGNAGE & LINEMARKING LAYOUT PLAN**

IPSWICH CITY COUNCIL
RIPLEY ESTATE DEVELOPMENT PTY LTD

CONSTRUCTION Drg No **320678-02A-C0400** Rev **1**

STORMWATER DRAINAGE NOTES:

- ALL DRAINAGE MATERIALS, EXCAVATION AND CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE LOCAL AUTHORITY SPECIFICATIONS AND DETAILS AND THE FOLLOWING PUBLICATIONS (AS APPLIES TO THE TYPE OF PIPELINE):-
 - CONCRETE PIPE ASSOCIATION OF AUSTRALIA TECHNICAL ADVISORY PUBLICATIONS
 - AS 3725 "DESIGN FOR THE INSTALLATION OF BURIED CONCRETE PIPES"
 - AS 4058 "PRE-CAST CONCRETE PIPES (PRESSURE AND NON-PRESSURE)"
 - AS 4139 "FIBRE REINFORCED CONCRETE PIPES AND FITTINGS"
 - AS 2566 "BURIED FLEXIBLE PIPELINES"
 - AS 3500 "NATIONAL PLUMBING CODE"
 - AS 1254 "PVC PIPES AND FITTINGS FOR STORM & SURFACE WATER APPLICATIONS"
 - AS 1273 "UNPLASTICIZED PVC (uPVC) DOWNPIPE AND FITTINGS FOR RAINWATER"
- WHERE THE DEPTH OF FILL OVER THE PIPE IS BETWEEN Min. 600mm AND Max. 1.5m HIGH:-
 - ALL uPVC PIPES SHALL BE CLASS "SN8" FOR 150φ - 225φ AND "SN6" FOR 100φ
 - ALL CONCRETE PIPES SHALL BE MINIMUM CLASS "2"
 SHOULD THE DEPTH OF COVER OVER THE PIPE BE OUTSIDE THE ABOVE MAXIMUM AND MINIMUM LIMITS, OR ANY LOADING OTHER THAN NORMAL EARTH LOADS BE APPLICABLE (INCLUDING CONSTRUCTION TRAFFIC LOADS) THE DESIGN ENGINEER MUST BE CONTACTED FOR SPECIFIC DESIGN OF PIPE CLASS.
- UNLESS DETAILED OTHERWISE PIPE CLASSES SPECIFIED ON PROJECT DRAWINGS ARE BASED ON SINGLE PIPE BARREL ONLY - WHERE MULTIPLE PIPE BARRELS ARE PROPOSED THE PIPE CLASS MUST BE REFERRED TO THE DESIGN ENGINEER FOR CONFIRMATION.
- UNLESS SPECIFIED OTHERWISE DESIGN LOADING ON ALL PIPELINES REQUIRE "TRENCH" TYPE BEDDING AND BACKFILL INSTALLATION IN ACCORDANCE WITH AS 3725. "EMBANKMENT" TYPE INSTALLATION WILL NOT BE ACCEPTED WITHOUT WRITTEN APPROVAL. STABILITY OF TRENCH BASE AND SIDES MUST BE ADEQUATE TO PROVIDE REQUIRED SUPPORT TO THE BEDDING, HAUNCH AND SIDES OF THE TRENCH - IF ANY DOUBT EXISTS THE CONTRACTOR MUST OBTAIN GEOTECHNICAL CONSULTANT CONFIRMATION.
- THE WIDTH OF TRENCH OUTSIDE THE PIPE SHALL BE IN ACCORDANCE WITH AS 3725 (NOMINAL 300mm Max.). ANY FURTHER WIDENING OF THE TRENCH WILL INCREASE LOAD ONTO PIPE, AND WILL REQUIRE REVIEW OF PIPE CLASS AND INSTALLATION SPECIFICATIONS. ANY ADDITIONAL ASSOCIATED PIPE OR SUPPORT COSTS WILL BE AT CONTRACTOR'S EXPENSE.
- UNLESS SPECIFIED OTHERWISE PIPE BEDDING AND SUPPORT SHALL BE INSTALLED IN ACCORDANCE WITH AS 3725 AND SHALL BE GENERALLY AS FOLLOWS:-
 - "HS2" UNDER ROADWAYS
 - "H2" UNDER NON-TRAFFIC / NON-LOADED AREAS
 ANY CIRCUMSTANCES OUTSIDE THESE MUST BE REFERRED TO THE DESIGN ENGINEER FOR PIPE SUPPORT SPECIFICATIONS.
- THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC LOADING ONTO PIPELINES IS LIMITED TO MAXIMUM VEHICLE LOADINGS AND ACHIEVES BACKFILL COVER IN ACCORDANCE WITH AS 3725 (OR ALTERNATIVELY PROVIDE ADEQUATE TEMPORARY AND PERMANENT BRIDGING). REFER C.P.A.A. PIPE CLASS SELECTION CRITERIA / SOFTWARE FOR ACCEPTABLE LOADING APPLICATIONS.
- ANY DRAINLINE BEING INSTALLED WITH ANY PORTION OF THE DRAINLINE BELOW THE MAXIMUM TIDAL LEVEL SHALL HAVE SALTWATER EXPOSURE COVER CLASS PIPES OR CULVERTS INSTALLED. FOR ANY DEVELOPMENT WITHIN 1 KILOMETRE OF THE COASTLINE, OR WITH PIPEWORK THE HIGHEST ASTRONOMICAL TIDE (H.A.T.) THE CONTRACTOR MUST VERIFY THIS REQUIREMENT WITH THE SUPERVISING ENGINEER.
- WHERE DRAINLINES ARE TO BE INSTALLED IN "AGGRESSIVE" PERMEABLE SOILS AS DEFINED IN AS 3600, OR ACID SULPHATE SOILS (pH <4.0) THEY MUST BE REFERRED TO THE SUPERVISING ENGINEER FOR REVIEW OF PIPE / EXPOSURE COVER CLASS. THE CONTRACTOR SHALL VERIFY SOIL CONDITION (BY TESTING) AND UNDERTAKE SOIL REMEDIATION TREATMENT (WHERE REQUIRED) PRIOR TO DRAINLINE CONSTRUCTION.
- MINIMUM AND MAXIMUM PIPE GRADES SHALL BE IN ACCORDANCE WITH Q.U.D.M. SPECIFICATIONS. (N.B. 150φ=1% Min. AND 375φ=0.4% Min.)
- ANY PIPE DOWNSTREAM OF INLETS CAPTURING GROUND RUNOFF SHALL BE Min. 150φ.
- WHERE PIPES AND STRUCTURES ARE TO BE LAID WITHIN THE ZONE OF INFLUENCE OF STRUCTURAL ELEMENTS (e.g. BUILDING FOOTINGS, RETAINING WALLS . . . etc.) THE BUILDER SHALL PROVIDE ADEQUATE BRIDGING / PROTECTION TO ENSURE NO UNDUE LOADING ONTO STORMWATER PIPES AND STRUCTURES. WHERE ANY DOUBT MAY EXIST REFERENCE SHALL BE MADE TO THE DESIGNER OF THE STRUCTURE AND THE STORMWATER DESIGN ENGINEER.
- CONTRACTOR MUST VERIFY THAT ALL PIPE LEVELS AND GRADES CAN BE ACHIEVED PRIOR TO CONSTRUCTING DRAINLINES. ANY CONFLICT SHALL BE REFERRED TO THE SUPERINTENDENT FOR RE-DESIGN PRIOR TO ANY PIPELINE CONSTRUCTION.
- BENCHING OF PIT STRUCTURES SHALL HAVE A SMOOTH FINISHED SURFACE, AND PIPES SHALL NOT PROJECT INSIDE THE SHAFT OF THE PIT.
- WHERE RECTANGULAR PITS OR STRUCTURES ARE CONSTRUCTED, PIPES MUST NOT CONNECT INTO THE STRUCTURE AT CORNERS.

- ALL CONSTRUCTION AND EXCAVATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT WORKPLACE HEALTH AND SAFETY ACT INCLUDING AMENDMENTS SUBSEQUENT TO THE ORIGINAL PUBLICATION.
- BASE AND SHAFT OF ALL STORMWATER STRUCTURES SHALL BE "CAST IN-SITU" CONCRETE UNLESS OTHERWISE APPROVED IN WRITING BY THE SUPERVISING ENGINEER.
- ALL GRATED INLETS SHALL BE MINIMUM "CLASS D" TRAFFICABLE, AND SHALL BE BOLTED DOWN UNLESS OTHERWISE APPROVED BY THE SUPERVISING ENGINEER.
- WHERE A BRANCH CONNECTION IS INDICATED DIRECTLY ONTO THE RECEIVING PIPELINE (I.E. WITHOUT JUNCTION PIT) - A PROPRIETARY OBLIQUE BRANCH FITTING SHALL BE INSTALLED ONTO RECEIVING PIPELINE SIZE UP TO 300MM, OR APPROVED SADDLE BRANCH INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER SPECIFICATIONS FOR PIPES FOR RECEIVING PIPELINE SIZE 375MM OR GREATER. THE MAXIMUM SIZE OF THE CONNECTING BRANCH LINE (WITHOUT JUNCTION PIT) SHALL BE 150MM U.N.O.
- ALL PIPED OUTLETS AND INLETS MUST BE PROVIDED WITH CEMENT GROUTED STONE PITCHING SCOUR PROTECTION IN ACCORDANCE WITH IPWEA STANDARD DRAWING NUMBER D-0081. ALL VOIDS BETWEEN STONES MUST BE CEMENT GROUTED - NO SHALL NOT BE LOOSE STACKED. ALL STONE PITCHING SHALL BE PLACED OVER GEOFABRIC - BIDIM A24 OR EQUIVALENT.

STORMWATER DESIGN CRITERIA:

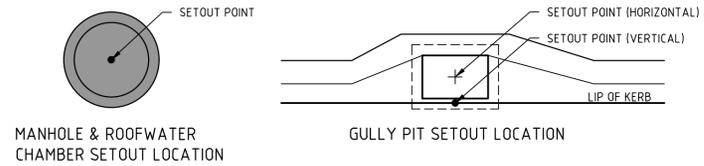
- STORMWATER HAS BEEN DESIGNED IN ACCORDANCE WITH QUEENSLAND URBAN DRAINAGE MANUAL (Q.U.D.M.) AND IPSWICH COUNCIL PLANNING SCHEME, POLICIES & DEVELOPMENT STANDARDS.
- STORMWATER DESIGN EVENTS ADOPTED ARE AS FOLLOWS:-
 - "MINOR STORM" PIPED SYSTEM - 10 YEAR A.R.I.
 - "MAJOR STORM" OVERLAND FLOW - 100 YEAR A.R.I.
- CATCHMENT LABELS CORRELATE TO INLET STRUCTURE LABELS U.N.O.

NOTES:

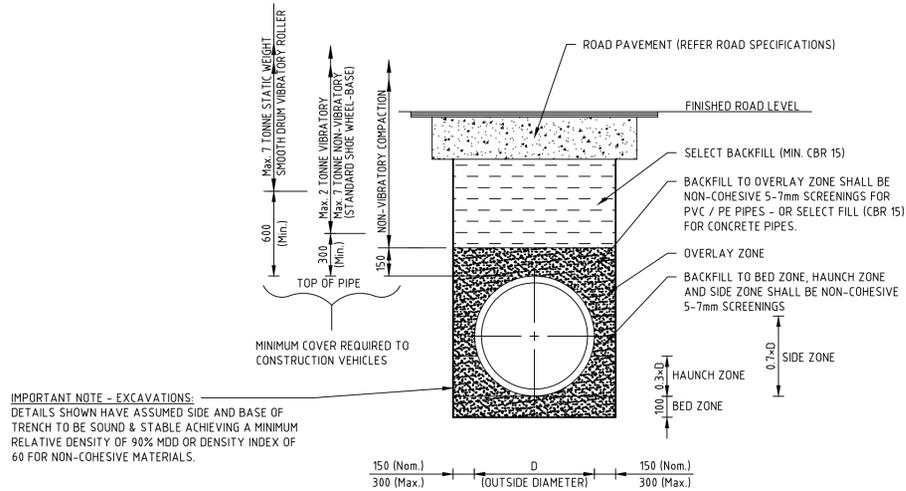
- ALL STORMWATER PIPELINES SHALL BE INSTALLED WITH TYPE "HS2" EMBEDMENT IN ACCORDANCE WITH AS 3725.
- ALL STORMWATER STRUCTURE COVERS SHALL BE CLASS 'D' TRAFFICABLE U.N.O.
- PIPE CLASS NOMINATED ON LONGITUDINAL SECTIONS ARE AS FOLLOWS;
 - U = uPVC CLASS "SN8"
 - 2 = RCP CLASS '2'
 - 3 = RCP CLASS '3'
 - 4 = RCP CLASS '4'

ROOFWATER CONNCTION NOTE:

- LOTS SHALL BE PROVIDED WITH KERB ADAPTER INSTALLED INTO KERB & CHANNEL IN ACCORDANCE WITH IPWEA STANDARD DRAWING RS-081.



SETOUT POINTS LOCATION DETAIL
N.T.S



TYPICAL STORMWATER TRENCH DETAIL
TYPE "HS2" SUPPORT - SINGLE BARREL
N.T.S

WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
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 Date: MARCH 24

AMORY AT RIPLEY
STAGE 02A
STORMWATER DRAINAGE STANDARD NOTES & DETAILS
 IPSWICH CITY COUNCIL
 RIPLEY ESTATE DEVELOPMENT PTY LTD
CONSTRUCTION Drg No **320678-02A-C0500** Rev **1**



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**AMORY AT RIPLEY
STAGE 02A
STORMWATER DRAINAGE CATCHMENT PLAN**

IPSWICH CITY COUNCIL
RIPLEY ESTATE DEVELOPMENT PTY LTD

CONSTRUCTION Drg No **320678-02A-C0501** Rev **1**

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STORMWATER DRAINAGE LONGITUDINAL SECTIONS

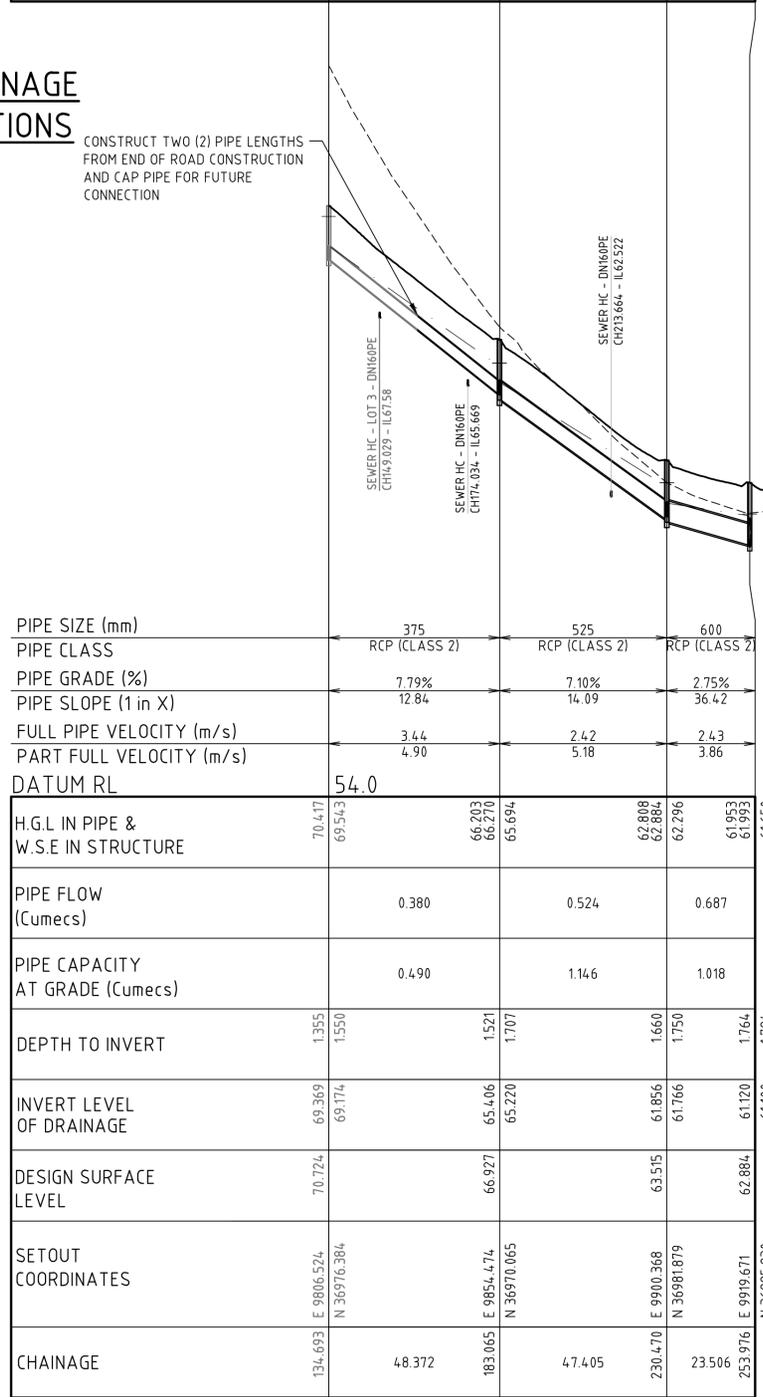
SCALE HORIZONTAL 1:1000
VERTICAL 1:100

CONSTRUCT TWO (2) PIPE LENGTHS FROM END OF ROAD CONSTRUCTION AND CAP PIPE FOR FUTURE CONNECTION

NOTES:

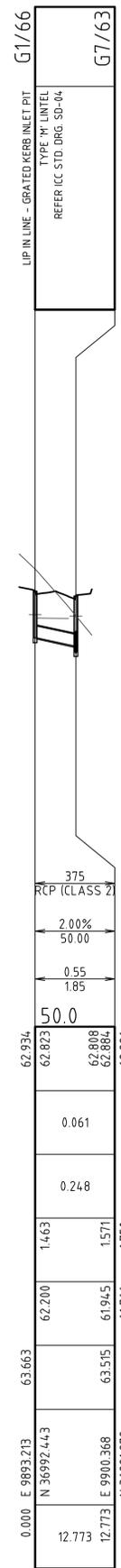
- ALL STORMWATER PIPELINES SHALL BE INSTALLED WITH TYPE "HS2" EMBEDMENT IN ACCORDANCE WITH AS 3725.
- ALL STORMWATER STRUCTURE COVERS SHALL BE CLASS 'D' TRAFFICABLE U.N.O.
- PIPE CLASS NOMINATED ON LONGITUDINAL SECTIONS ARE AS FOLLOWS:
 - U = uPVC CLASS "SN8"
 - 2 = RCP CLASS '2'
 - 3 = RCP CLASS '3'
 - 4 = RCP CLASS '4'

STRUCTURE NAME	G5/63	G6/63	G7/63	G1/40
STRUCTURE DESCRIPTION		LIP IN LINE - GRATED KERB INLET PIT TYPE 'M' LINTEL REFER ICC STD. DRG. SD-04	LIP IN LINE - GRATED KERB INLET PIT TYPE 'M' LINTEL REFER ICC STD. DRG. SD-04	LIP IN LINE - GRATED KERB INLET PIT TYPE 'M' LINTEL REFER ICC STD. DRG. SD-04



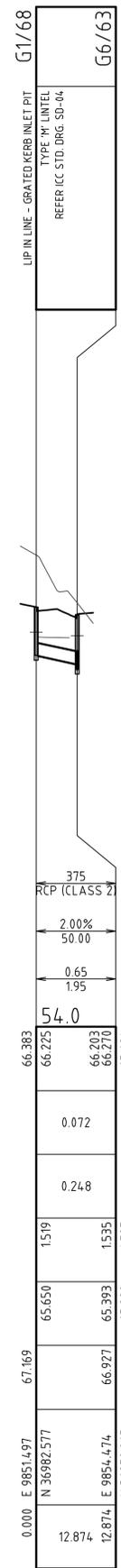
PIPE SIZE (mm)	PIPE CLASS	PIPE GRADE (%)	PIPE SLOPE (1 in X)	FULL PIPE VELOCITY (m/s)	PART FULL VELOCITY (m/s)	DATUM RL
375	RCP (CLASS 2)	7.79%	12.84	3.44	4.90	54.0
525	RCP (CLASS 2)	7.10%	14.09	2.42	5.18	
600	RCP (CLASS 2)	2.75%	36.42	2.43	3.86	

H.G.L IN PIPE & W.S.E IN STRUCTURE	PIPE FLOW (Cumecs)	PIPE CAPACITY AT GRADE (Cumecs)	DEPTH TO INVERT	INVERT LEVEL OF DRAINAGE	DESIGN SURFACE LEVEL	SETOUT COORDINATES	CHAINAGE
70.417 69.543	0.380	0.490	1.355 1.550	69.369 69.174	70.724	E 9806.524 N 36976.384	134.693
66.203 66.270			1.521 1.707	65.406 65.220	66.927	E 9854.474 N 36970.065	183.065
62.808 62.884	0.524	1.146	1.660 1.750	61.856 61.766	63.515	E 9900.368 N 36981.879	230.470
61.953 61.923	0.687	1.018	1.764 1.784	61.120 61.100	62.884	E 9919.671 N 36995.230	253.506



PIPE SIZE (mm)	PIPE CLASS	PIPE GRADE (%)	PIPE SLOPE (1 in X)	FULL PIPE VELOCITY (m/s)	PART FULL VELOCITY (m/s)	DATUM RL
375	RCP (CLASS 2)	2.00%	50.00	0.55	1.85	50.0

H.G.L IN PIPE & W.S.E IN STRUCTURE	PIPE FLOW (Cumecs)	PIPE CAPACITY AT GRADE (Cumecs)	DEPTH TO INVERT	INVERT LEVEL OF DRAINAGE	DESIGN SURFACE LEVEL	SETOUT COORDINATES	CHAINAGE
62.934 62.823	0.061	0.248	1.463	62.200	63.663	E 9893.213 N 36992.443	0.000
62.808 62.884			1.571 1.750	61.945 61.766	63.515	E 9900.368 N 36981.879	12.773



PIPE SIZE (mm)	PIPE CLASS	PIPE GRADE (%)	PIPE SLOPE (1 in X)	FULL PIPE VELOCITY (m/s)	PART FULL VELOCITY (m/s)	DATUM RL
375	RCP (CLASS 2)	2.00%	50.00	0.65	1.95	54.0

H.G.L IN PIPE & W.S.E IN STRUCTURE	PIPE FLOW (Cumecs)	PIPE CAPACITY AT GRADE (Cumecs)	DEPTH TO INVERT	INVERT LEVEL OF DRAINAGE	DESIGN SURFACE LEVEL	SETOUT COORDINATES	CHAINAGE
66.383 66.225	0.072	0.248	1.519	65.650	67.169	E 9851.497 N 36982.577	0.000
66.203 66.270			1.535 1.707	65.393 65.220	66.927	E 9854.474 N 36970.065	12.874

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	KH	18-11-24
B	ISSUED FOR APPROVAL	K.H.	05-09-24
A	ISSUE FOR TENDER	K.H.	15-03-24



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Designed
T.MULLEN

 Authorised
M. READMAN RPEQ 28295

 Checked
K. HOWELLS

 Date
MARCH 24

AMORY AT RIPLEY
STAGE 02A
STORMWATER DRAINAGE LONGITUDINAL SECTIONS

 IPSWICH CITY COUNCIL
 RIPLEY ESTATE DEVELOPMENT PTY LTD

CONSTRUCTION

Drg No **320678-02A-C0502** Rev **1**

SAFETY IN DESIGN REPORT

DURING THE DESIGN SPIIRE AUSTRALIA PTY LTD HAS REGULARLY REVIEWED THE DESIGN IN PROGRESS TO ELIMINATE OR REDUCE SAFETY HAZARDS SO FAR AS IS REASONABLY PRACTICABLE FOR THE CONSTRUCTION, MAINTENANCE, OPERATION AND DEMOLITION OF THE PROPOSED CIVIL WORKS. IN ACCORDANCE WITH WORK HEALTH AND SAFETY ACT AND REGULATIONS, POTENTIAL RESIDUAL HAZARDS ASSOCIATED WITH THE CIVIL DESIGN AS DOCUMENTED WILL INCLUDE BUT MAY NOT BE LIMITED TO THE FOLLOWING:

RESIDUAL RISK	LIKELIHOOD (L)	IMPACT (I)	RISK RATING (L+I)
DEMOLITION	4	4	8
GROUND VIBRATIONS	4	2	6
SURROUNDING PROPERTY AND INFRASTRUCTURE INCLUDING TREES	4	4	8
EXCAVATIONS	4	4	8
TRIP/FALL HAZARDS	4	3	7
FIRE AND OTHER EMERGENCY HAZARDS, INCLUDING EMERGENCY ROUTES AND EXITS	3	4	7
UNDERGROUND AND ABOVE GROUND SERVICES AND OBSTRUCTIONS	4	4	8
LIFTING AND POSITIONING OF STRUCTURAL COMPONENTS	3	4	7
HAZARDOUS MATERIALS	3	4	7
NOISE EXPOSURE FROM CONSTRUCTION AND SURROUNDING ACTIVITIES	3	4	7
OVER LOADING DUE TO CONSTRUCTION LOADS	3	4	7
OPEN TRENCHING	4	4	8
UNDER-BORE & AND OTHER TRENCHLESS METHODOLOGY FOR PIPELINE CONSTRUCTION	3	4	7
WORKING AT HEIGHTS	3	5	8
GENERAL SITE WORKS AND USE OF CONSTRUCTION VEHICLES & EQUIPMENT	3	5	8
SITE ACCESS INCLUDING RESTRICTED WORK SPACES	4	4	8
INTERACTION OF VEHICLES AND PERSONNEL ON THE ROAD/TRANSPORT NETWORK	4	4	8

THE ABOVE LISTED HAZARDS ARE TO BE ADDRESSED BY IMPLEMENTING AND COMPLYING WITH THE FOLLOWING NOTES, AUSTRALIAN STANDARDS, REGULATORY REQUIREMENTS AND OTHER RELEVANT DOCUMENTATION RELATING TO THE PROPOSED WORKS:

- IT IS THE CLIENT'S RESPONSIBILITY TO PROVIDE ALL "SAFETY IN DESIGN" REPORTS TO THE BUILDER, PROJECT MANAGER AND/ OR PRINCIPAL CONTRACTOR.
- IT IS THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO BUILD THE WORKS STRICTLY IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND NOT TO MAKE ANY VARIATIONS TO THE CONSTRUCTION WITHOUT THE SPECIFIC WRITTEN APPROVAL OF THE DESIGNERS.
- IT IS THE CLIENT'S RESPONSIBILITY, THROUGH CONSULTATION AND ENGAGEMENT OF SUITABLY QUALIFIED PROFESSIONALS, TO MAKE THE DESIGNERS AWARE OF ANY INFORMATION RELATING TO HAZARDS AND RISKS WHERE CONSTRUCTION WORK IS TO BE CARRIED OUT, INCLUDING BUT NOT LIMITED TO: THE LOCATION OF UNDER GROUND AND ABOVE GROUND SERVICES, IDENTIFICATION OF CONTAMINATED SOILS AND OTHER MATERIALS OR THE PRESENCE OF DANGEROUS MATERIALS INCLUDING ASBESTOS.
- THIS DESIGN HAS BEEN DOCUMENTED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS, LOCAL AUTHORITY REGULATIONS AND STANDARD BUILDING CODES OF PRACTICE UNLESS NOTED OTHERWISE. EACH LEVEL OF CONSTRUCTION IS TO BE COMPLETED AND INSPECTED TO ENSURE DESIGN COMPLIANCE BY THE CERTIFYING AUTHORITY PRIOR TO ADVANCING TO THE NEXT STAGE OF WORK. IT IS THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO PROGRAM THE WORKS IN A SAFE MANNER AND TO HIGHLIGHT TO THE DESIGNERS ANY ASPECTS OF THE WORK THAT MAY REQUIRE FURTHER CLARIFICATION OR ADVICE WITH REGARD TO THE HEALTH AND SAFETY OF THE PROJECT.
- ALL ASPECTS DETAILED OR NOTED IN THE DOCUMENTS ARE THOSE REQUIRED FOR THE COMPLETED WORKS ONLY. THE BUILDER, PROJECT MANAGER OR THE PRINCIPAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY NECESSARY TEMPORARY WORKS TO MAINTAIN THE STABILITY AND SAFETY OF THE WORKS THROUGHOUT THE CONSTRUCTION PERIOD. THE DESIGNER IS TO BE CONTACTED FOR FURTHER ADVICE IF REQUIRED.
- WHERE THESE DESIGN DRAWINGS ONLY DOCUMENT PART OF THE WORKS, IT IS THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL DESIGN DRAWINGS ARE CO-ORDINATED BETWEEN CONSULTANTS. FOR EXAMPLE, CO-ORDINATION TO ENSURE APPROPRIATE SLAB THICKENINGS AND DETAILING FOR LOAD-BEARING AND BRACING WALL ELEMENTS, ETC.
- DURING CONSTRUCTION, THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR SHALL PROTECT NEIGHBOURING PROPERTIES FROM NOISE IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS, RADIATION, GROUND VIBRATIONS AND OTHER CONSTRUCTION HAZARDS. CONDITION (DILAPIDATION) REPORTS ON NEIGHBOURING PROPERTIES AND STRUCTURES ARE RECOMMENDED PRIOR TO CONSTRUCTION.
- THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR IS REQUIRED TO VERIFY AND IF NECESSARY CONDUCT FURTHER SEARCHES TO ACCURATELY LOCATE EASEMENTS, UNDER GROUND AND ABOVE GROUND SERVICES, PROPERTY BOUNDARIES, TREES, EXISTING STRUCTURES, AND OTHER OBSTRUCTIONS PRIOR TO CONSTRUCTION. THE DESIGNER IS TO BE IMMEDIATELY NOTIFIED OF ANY ELEMENTS NOT SHOWN ON THE APPROVED DRAWINGS AS THE DESIGN AND SAFETY DESIGN REPORT MAY REQUIRE AMENDING.
- THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR MUST OBTAIN DESIGN AND INSPECTION CERTIFICATES ON ALL ELEMENTS OF THE WORKS WHICH PRESENT ANY SAFETY RISKS.
- THE CONSTRUCTION IS TO BE FULLY CARRIED OUT IN ACCORDANCE WITH ALL DESIGN DRAWINGS AND NOTES AS DOCUMENTED. IF CONSTRUCTION CEASES AT ANY STAGE, THE DESIGNERS ARE TO BE NOTIFIED TO PROVIDE ADVICE ON THE SAFETY OF COMPLETED CONSTRUCTION WORK AT THAT TIME.
- IT IS THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO INFORM THE DESIGNERS OF ANY CHANGE TO CONTRACTUAL ARRANGEMENTS BETWEEN THE CLIENT AND THEMSELVES WHICH MAY IMPACT ON THE DESIGN AND SAFETY OF THE DESIGN.
- THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR SHALL PROVIDE SUITABLE FENCING AROUND ALL EXCAVATIONS AND AT NO STAGE SHOULD AN EXCAVATION BE APPROACHED OR ENTERED INTO UNLESS AN APPROVED AND CERTIFIED SHORING SYSTEM HAS BEEN INSTALLED OR THE BANKS HAVE BEEN BATTERED AND/ OR BENCHED IN ACCORDANCE WITH THE PROJECTS GEOTECHNICAL ENGINEERING SPECIFICATION AND/ OR WRITTEN INSTRUCTIONS BY THE INSPECTING GEOTECHNICAL ENGINEER.
- AT NO STAGE SHALL SITE PERSONNEL PASS UNDER MATERIALS BEING LIFTED AND MOVED AROUND ON SITE. IT IS THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT SITE MATERIALS ARE DELIVERED, TRANSPORTED, STORED AND POSITIONED IN A SAFE MANNER AND IN ACCORDANCE WITH THE PRODUCT SPECIFICATION, THE SITE SPECIFIC SAFETY PLAN AND GENERAL SAFETY INDUCTION REGULATIONS.

- CONTRACTORS ARE REQUIRED TO OBTAIN AND COMPLY WITH MATERIAL PRODUCT SPECIFICATIONS AND RECOMMENDATIONS WHEN USING MATERIALS SPECIFIED IN THE DESIGN DOCUMENTS.
- THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR MUST ELIMINATE OR LIMIT (AS FAR AS REASONABLY PRACTICABLE) SLIP AND TRIP HAZARDS AND PROTRUDING, SHARP OR ABRASIVE ELEMENTS ON SITE. HAZARDOUS ELEMENTS MUST BE CAPPED, ADEQUATELY SCREENED OR CLEARLY MARKED TO ENSURE SITE SAFETY.
- IT IS THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT SITE WORKERS ARE SUITABLY QUALIFIED, TRAINED AND INSURED FOR THE TASKS BEING UNDERTAKEN ON SITE.
- IT IS THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL SITE PERSONNEL ARE PROVIDED WITH ADEQUATE SPACE, VENTILATION AND APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT TO UNDERTAKE THE WORKS REQUIRED. ALL CONSTRUCTION EQUIPMENT IS TO BE USED IN ACCORDANCE WITH BEST INDUSTRY SAFETY PRACTICES AND REGULATIONS.
- DEMOLITION WORKS ARE REQUIRED TO BE CARRIED OUT IN A SAFE, SYSTEMATIC AND ORDERLY MANNER IN ACCORDANCE WITH THE SITE SPECIFIC SAFETY PLAN AND ALL GENERAL SAFETY INDUCTION REGULATIONS. TEMPORARY PROPPING OF MEMBERS MAY BE REQUIRED IN ACCORDANCE WITH THE DIRECTION OF A SUITABLY QUALIFIED PROFESSIONAL IN ACCORDANCE WITH INDUSTRY SAFETY PRACTICES AND REGULATIONS.
- AT ALL TIMES THE BUILDER, THE PROJECT MANAGER OR PRINCIPAL CONTRACTOR IS TO PROVIDE SAFE ACCESS ONTO AND AROUND THE SITE INCLUDING ADEQUATE STAIRS, SCAFFOLDING, SECURE LADDER ACCESS, SAFE WORKING PLATFORMS, ACCESS PATHS FREE FROM FALLING OBJECTS, ADEQUATE RAILINGS, FALL ARREST SYSTEMS, ETC.
- ALL FORMWORK AND SCAFFOLDING SYSTEMS ARE TO BE DESIGNED AND CERTIFIED BY A LICENSED CONTRACTOR TO COMPLY WITH RELEVANT AUSTRALIAN STANDARDS AND KEPT AND MAINTAINED IN A GOOD WORKING ORDER. REGULAR CHECKS ON ERECTED MEMBERS AND FIXINGS MUST BE CARRIED OUT BY A QUALIFIED PROFESSIONAL TO ENSURE COMPLIANCE WITH THE DESIGN.
- CLIMBING ON SCAFFOLDING OR FORMWORK AND WORKING AT HEIGHTS WITHOUT SUITABLY APPROVED RAILINGS, BARRIERS AND RESTRAINTS FIXED OFF TO CERTIFIED ANCHOR POINTS IS STRICTLY PROHIBITED.
- ALL SITE MACHINERY AND ELECTRICAL EQUIPMENT IS TO BE KEPT IN GOOD WORKING ORDER WITH CURRENT SAFETY TAGGING AND SERVICING WHERE APPLICABLE.
- THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR IS TO ADEQUATELY TREAT AND DISPOSE OF DANGEROUS SITE MATERIALS INCLUDING CONTAMINATED SOILS AND ASBESTOS IN ACCORDANCE WITH AUTHORITY REGULATIONS, INDUSTRY STANDARDS AND PRACTICES.
- THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR IS TO ENSURE THAT THE SITE IS MAINTAINED IN A SAFE WORKING MANNER AND THAT ALL SITE PRACTICES ARE IN ACCORDANCE WITH CURRENT WORK PLACE HEALTH AND SAFETY LAWS AND REGULATIONS.

(L) LIKELIHOOD OF THE CONSEQUENCES OCCURRING	
RATING	DESCRIPTION
ALMOST CERTAIN 5	HAS HAPPENED SEVERAL TIMES IN THE PAST YEAR AND IN EACH OF THE PREVIOUS 5 YEARS OR HAS A >90% CHANCE OF OCCURRING IN THE NEXT 24 MONTHS IF THE RISK IS NOT MITIGATED.
LIKELY 4	HAS HAPPENED AT LEAST ONCE IN THE PAST YEAR AND IN EACH OF THE PREVIOUS 5 YEARS OR HAS A 60-90% CHANCE OF OCCURRING IN THE NEXT 24 MONTHS IF THE RISK IS NOT MITIGATED.
POSSIBLE 3	HAS HAPPENED DURING THE PAST 5 YEARS BUT NOT EVERY YEAR OR HAS A 40-60% CHANCE OF OCCURRING IN THE NEXT 24 MONTHS IF THE RISK IS NOT MITIGATED.
UNLIKELY 2	MAY HAVE OCCURRED ONCE IN THE LAST 5 YEARS OR HAS A 10-30% CHANCE OF OCCURRING IN THE FUTURE IF THE RISK IS NOT MITIGATED.
RARE 1	HAS NOT OCCURRED IN THE PAST 5 YEARS OR MAY OCCUR IN EXCEPTIONAL CIRCUMSTANCES AND LESS THAN 10% CHANCE OF OCCURRING IN THE NEXT 24 MONTHS IF THE RISK IS NOT MITIGATED.

(I) IMPACT OR CONSEQUENCE RATING TABLE	
RATING	DESCRIPTION
SEVERE 5	ONE OR MORE FATALITIES OR LIFE THREATENING INJURIES OR ILLNESS, OR PUBLIC OR STAFF EXPOSED TO A SEVERE, ADVERSE LONG TERM HEALTH IMPACT OR LIFE THREATENING HAZARD.
MAJOR 4	ONE OR MORE MAJOR INJURIES OR ILLNESS REQUIRING MAJOR SURGERY OR RESULTING IN PERMANENT DISABLEMENT OR PUBLIC OR STAFF EXPOSED TO A HAZARD THAT RESULTS IN MAJOR SURGERY, PERMANENT DISABLEMENT OR ADVERSE PERMANENT HEALTH EFFECTS.
MODERATE 3	ONE OR MORE INJURIES OR ILLNESS REQUIRING TREATMENT BY A PHYSICIAN OR HOSPITALISATION OR PUBLIC OR STAFF EXPOSED TO A HAZARD THAT COULD CAUSE INJURIES OR MODERATE ADVERSE HEALTH EFFECTS.
MINOR 2	ONE OR MORE INJURIES OR ILLNESS REQUIRING TREATMENT BY A QUALIFIED FIRST AID PERSON OR EXPOSURE OF PUBLIC OR STAFF TO A HAZARD THAT COULD CAUSE MINOR INJURIES OR MINOR ADVERSE HEALTH EFFECTS.
NEGLECTIBLE 1	MINOR INJURY OR AILMENT THAT DOES NOT REQUIRE MEDICAL TREATMENT BY A PHYSICIAN OR A QUALIFIED FIRST AID PERSON.

LIKELIHOOD RATING	CONSEQUENCE RATING				
	SEVERE 5	MAJOR 4	MODERATE 3	MINOR 2	NEGLECTIBLE 1
ALMOST CERTAIN 5	VERY HIGH 10	VERY HIGH 9	HIGH 8	HIGH 7	MEDIUM 6
LIKELY 4	VERY HIGH 9	HIGH 8	HIGH 7	MEDIUM 6	MEDIUM 5
POSSIBLE 3	HIGH 8	HIGH 7	MEDIUM 6	MEDIUM 5	LOW 4
UNLIKELY 2	HIGH 7	MEDIUM 6	MEDIUM 5	LOW 4	LOW 3
RARE 1	MEDIUM 6	MEDIUM 5	LOW 4	LOW 3	VERY LOW 2

RISK LEVEL	REQUIRED ACTION
VERY HIGH	ACT IMMEDIATELY: THE PROPOSED TASK OR PROCESS ACTIVITY MUST NOT PROCEED. STEPS MUST BE TAKEN TO LOWER THE RISK LEVEL TO AS LOW AS REASONABLY PRACTICABLE USING THE HIERARCHY OF RISK CONTROLS.
HIGH	ACT TODAY: THE PROPOSED ACTIVITY CAN ONLY PROCEED, PROVIDED THAT: (i) THE RISK LEVEL HAS BEEN REDUCED TO AS LOW AS REASONABLY PRACTICABLE USING THE HIERARCHY OF RISK CONTROLS; (ii) THE RISK CONTROLS MUST INCLUDE THOSE IDENTIFIED IN LEGISLATION, STANDARDS, CODES OF PRACTICE ECT. (iii) THE RISK ASSESSMENT HAS BEEN REVIEWED AND APPROVED BY THE SUPERVISOR AND (iv) THE SUPERVISOR MUST REVIEW AND DOCUMENT THE EFFECTIVENESS OF THE IMPLEMENTED RISK CONTROLS.
MEDIUM	ACT THIS WEEK: THE PROPOSED TASK OR PROCESS CAN PROCEED, PROVIDED THAT: (i) THE RISK LEVEL HAS BEEN REDUCED TO AS LOW AS REASONABLY PRACTICABLE USING THE HIERARCHY OF RISK CONTROLS; (ii) THE RISK ASSESSMENT HAS BEEN REVIEWED AND APPROVED BY THE SUPERVISOR.
LOW	ACT THIS MONTH: MANAGED BY LOCAL DOCUMENTED ROUTINE PROCEDURES WHICH MUST INCLUDE APPLICATION OF THE HIERARCHY OF CONTROLS.
VERY LOW	KEEP A WATCHING BRIEF: ALTHOUGH THE RISK LEVEL IS LOW THE SITUATION SHOULD BE MONITORED PERIODICALLY TO DETERMINE IF THE SITUATION CHANGES.

HIERARCHY OF CONTROLS	
1	ELIMINATE THE HAZARD - REMOVE IT COMPLETELY FROM YOUR WORKPLACE.
2	SUBSTITUTE THE HAZARD - WITH A SAFER ALTERNATIVE.
3	ISOLATE THE HAZARD - AS MUCH AS POSSIBLE AWAY FROM WORKERS.
4	USE ENGINEERING CONTROLS - ADAPT TOOLS OR EQUIPMENT TO REDUCE THE RISK.
5	USE ADMINISTRATIVE CONTROLS - CHANGE WORK PRACTICES AND ORGANISATION.
6	USE PERSONAL PROTECTIVE EQUIPMENT (PPE) - THIS SHOULD BE THE LAST OPTION AFTER YOU HAVE CONSIDERED ALL OTHER OPTIONS FOR YOUR WORKPLACE.

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Designed
T.MULLEN

Checked
K. HOWELLS

Authorised
M. READMAN RPEQ 28295

Date
MARCH 24

**AMORY AT RIPLEY
STAGE 02A
SAFETY IN DESIGN REPORT**

IPSWICH CITY COUNCIL
RIPLEY ESTATE DEVELOPMENT PTY LTD

CONSTRUCTION Drg No **320678-02A-C0900** Rev **1**