

ARMSTRONG

STAGE 33

CITY OF GREATER GEELONG

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

GREATER GEELONG CITY COUNCIL
PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME

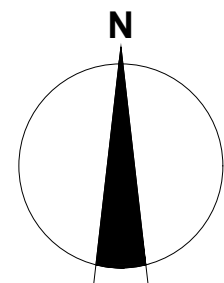
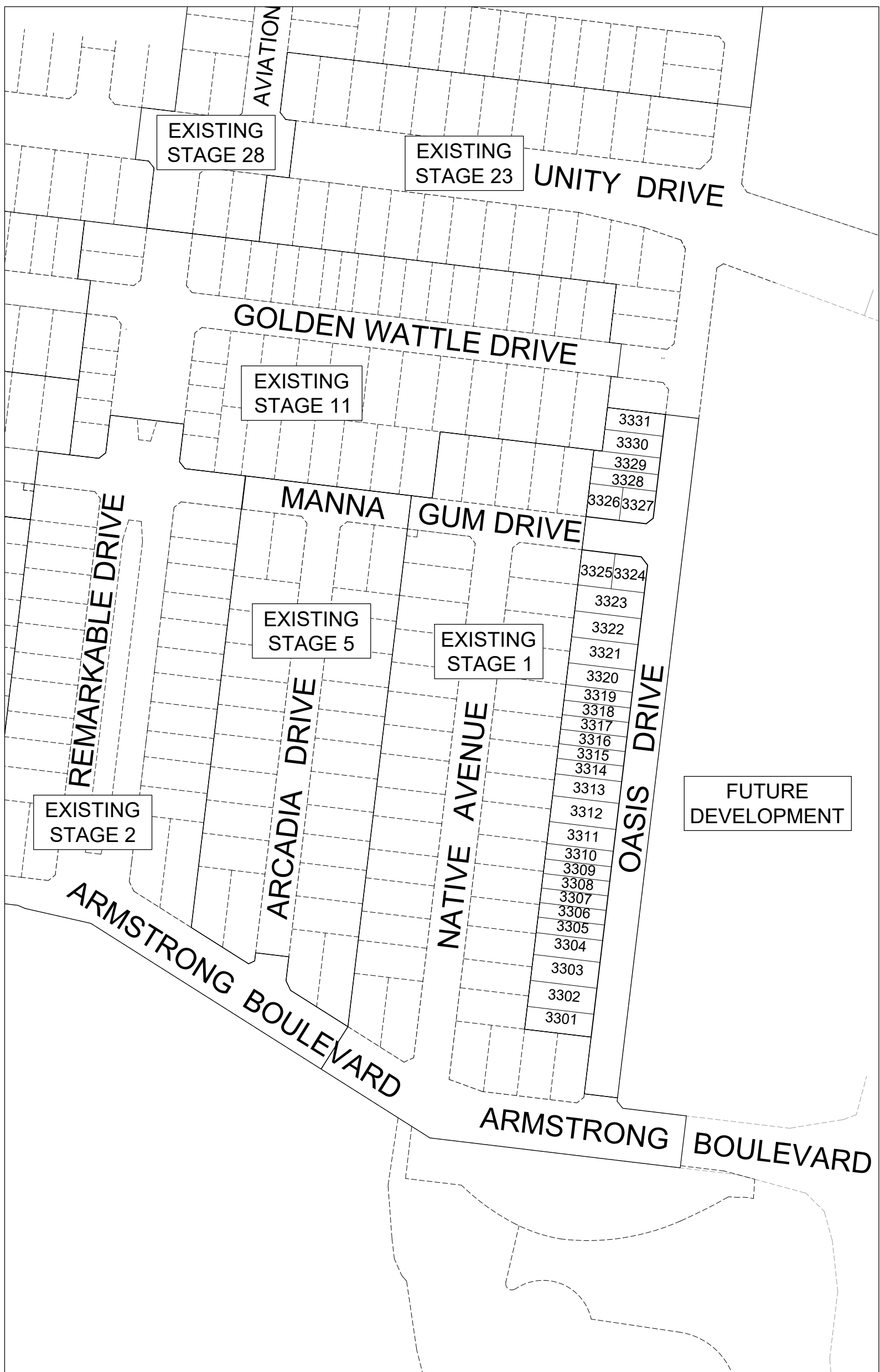
Endorsed Plan
Planning Permit No: PP-496-2012-H
Sheet 1 of 14
Approved By Daniel Cromberge
Approved Date 26/08/2021

NOTE: THIS IS NOT A BUILDING APPROVAL

Certification No: 15270

GENERAL NOTES:

- THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS AND GREATER GEELONG CITY COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THEY SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
- THE CONTRACTOR SHALL:
 - COMPLY WITH THE "SAFETY PRECAUTIONS IN TRENCHING OPERATIONS" (CODE OF PRACTICE No.8, 1998)
 - NOTIFY WORK SAFE OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
 - ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
- THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- REDGUM TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED IN ACCORDANCE WITH COUNCIL'S PLANNING PERMIT. NO EXCAVATION SHALL BE CARRIED OUT WITHIN THE TREE PROTECTION ZONE OF ANY EXISTING TREE WITHOUT WRITTEN APPROVAL FROM COUNCIL'S ENVIRONMENT DEPARTMENT.
- ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEADS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS. WRITTEN DIMENSIONS ONLY SHALL BE USED.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
- ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVES TO BE STRIPPED OF TOPSOIL AND STOCKPILED PRIOR TO EARTHWORKS COMMENCING. THESE AREAS SHALL BE RESURFACED WITH A 150mm LAYER OF TOPSOIL AS SPECIFIED.
- NO TOPSOIL TO BE REMOVED FROM SITE.
- NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE UNLESS DIRECTED BY THE SUPERINTENDENT.
- FILLING ON ALLOTMENTS AND UNDER ROAD PAVEMENTS TO HAVE LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-1996. INDIVIDUAL LOT CERTIFICATES ARE TO BE PROVIDED TO THE SUPERINTENDENT.
- FILLING UNDER DRIVEWAYS AND FOOTPATH IS TO BE APPROVED BY THE SUPERINTENDENT AND CONSTRUCTED IN LAYERS 150mm DEPTH. COMPACTION ACHIEVING A MINIMUM DENSITY RATIO OF 98% (STANDARD) IN ACCORDANCE WITH AS1289 CLAUSE 5.1.1.
- CUT AND FILL BATTER SLOPES ARE NOT TO EXCEED 1 in 6 UNLESS SHOWN OTHERWISE.
- ALL DRAINAGE PIPES ARE TO BE SPIGOT-SOCKET RUBBER RING JOINTED UNLESS STATED OTHERWISE.
- ALL DRAINAGE TRENCHES UNDER PARKING BAYS, DRIVEWAYS, FOOTPATHS AND BEHIND KERB & CHANNEL, SHALL BE BACKFILLED WITH CRUSHED ROCK AS SPECIFIED.
- ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILIZED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER.
- PROPERTY INLETS AS PER INFRASTRUCTURE DESIGN MANUAL (IDM) STANDARD DRAWING SD 520 ARE TO BE LOCATED 1.0m FROM LOW SIDE BOUNDARY UNLESS SHOWN OTHERWISE.
- ALL HOUSE DRAIN CONNECTIONS ARE TO BE LOCATED NO CLOSER THAN 6.0m FROM THE SIDE BOUNDARY OR FROM EASEMENT ALONG THE SIDE BOUNDARY UNLESS NOTED OTHERWISE AND CONNECTED DIRECTLY TO UNDERGROUND DRAIN OR PIT. HOUSE DRAIN LOCATION TO BE MARKED (50mm STAMPED IMPRESSION) ON THE TOP OF THE KERB.
- SUBSOIL DRAINS SHALL BE INSTALLED BEHIND OR BELOW ALL KERB AND CHANNEL.
- CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. CONDUITS TO BE EXTENDED TO PROPERTY LINE AND ARE REQUIRED WHEN CONNECTIONS EXTEND UNDER ROAD PAVEMENT, FOOTPATH OR OTHER INFRASTRUCTURE. BOTH KERBS ARE TO BE MARKED (50mm STAMPED IMPRESSION) WITH THE LETTERS E (ELECTRICAL), G (GAS), T (TELEPHONE), W (WATER) AND C (COUNCIL COMMUNICATION) ABOVE CONDUIT LOCATION.
- ALL SERVICING TRENCHES UNDER ROADS, DRIVEWAYS, FOOTPATHS ETC. ARE TO BE BACKFILLED & COMPACTED WITH F.C.R. IN THE CASE OF TRENCHES UNDER ROADS WHERE BACKFILLING HAS NOT ACHIEVED THE SPECIFIED COMPACTION OR SHOWS EXCESSIVE MOVEMENT UNDER PROOF ROLLING, THE BACKFILLING SHALL BE REMOVED AND REPLACED WITH 2% STABILISED COMPACTED F.C.R.
- NO COMMUNICATION PITS ARE TO BE LOCATED IN THE FOOTPATH.
- VEHICULAR CROSSINGS TO BE LOCATED CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES. VEHICLE CROSSINGS TO BE 1m FROM PROPERTY BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN. VEHICULAR CROSSINGS TO BE CONSTRUCTED AS PER CITY OF GREATER GEELONG "DESIGN NOTES No.4" DATED AUGUST 2012 & IDM STANDARD DRAWINGS SD205 to SD265.
- ALL PEDESTRIAN CROSSINGS TO BE IN ACCORDANCE WITH INFRASTRUCTURE DESIGN MANUAL SD200.
- ALL STREET SIGNS TO BE IN ACCORDANCE INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS. STREET SIGNS TO BE ATTACHED TO LIGHT POLES USING 'SINGLE DIRECTION COLLAR' OR '90° RIGHT ANGLE COLLAR' UNLESS SHOWN OTHERWISE.
- ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHOULD BE TO AS1742.2 AND AS1742.1 STANDARD RESPECTIVELY. TEMPORARY LINEMARKING TO BE PLACED DURING MAINTENANCE PERIOD PRIOR TO PLACEMENT OF WEARING COURSE. FINAL LINEMARKING TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
- UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED, GRADED, ALL RUBBISH REMOVED AND LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
- ALL AREAS OF SUBDIVISION EXPOSED OF VEGETATION, INCLUDING NATURE STRIPS, LOTS AND RESERVES ARE TO BE FULLY GRASSED BY HYDRO MULCHING, WATERED AND MAINTAINED, UNTIL THE END OF MAINTENANCE PERIOD.
- ALL SUMPS IN PRECAST CONCRETE PITS ARE TO BE INFILLED WITH CONCRETE FLUSH TO THE INVERT LEVEL OF THE OUTLET PIPE, UNLESS APPROVED OTHERWISE BY THE COUNCIL WORKS INSPECTOR.
- CITY OF GREATER GEELONG REQUIRES CCTV OF ALL DRAINAGE PIPES AND PITS, PRIOR TO THE ISSUE OF THE STATEMENT OF COMPLIANCE



LOCALITY PLAN

MELWAYS REF: 479 F1

1:2000 20 0 20 40 60 80 100 A1
1:4000 A3

Drawing Index




Drawing No.	Drawing Title	Revision
R100	COVER SHEET	0
R200	LAYOUT PLAN	0
R300	INTERSECTION DETAILS	0
R400	ROAD LONGITUDINAL SECTIONS	0
R500	ROAD CROSS SECTIONS - 01	0
R501	ROAD CROSS SECTIONS - 02	0
R502	ROAD CROSS SECTIONS - 03	0
R503	ROAD CROSS SECTIONS - 04	0
R504	ROAD CROSS SECTIONS - 05	0
R600	DRAINAGE LONG SECTIONS - 01	0
R601	DRAINAGE LONG SECTIONS - 02	0
R602	DRAINAGE LONG SECTIONS - 03	0
R700	TYPICAL DETAILS	0
R800	SIGNAGE & LINEMARKING PLAN	0

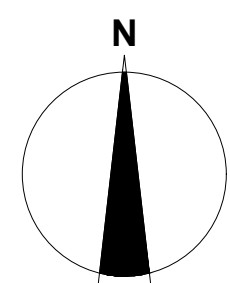
WARNING

BEWARE OF UNDERGROUND & OVERHEAD SERVICES

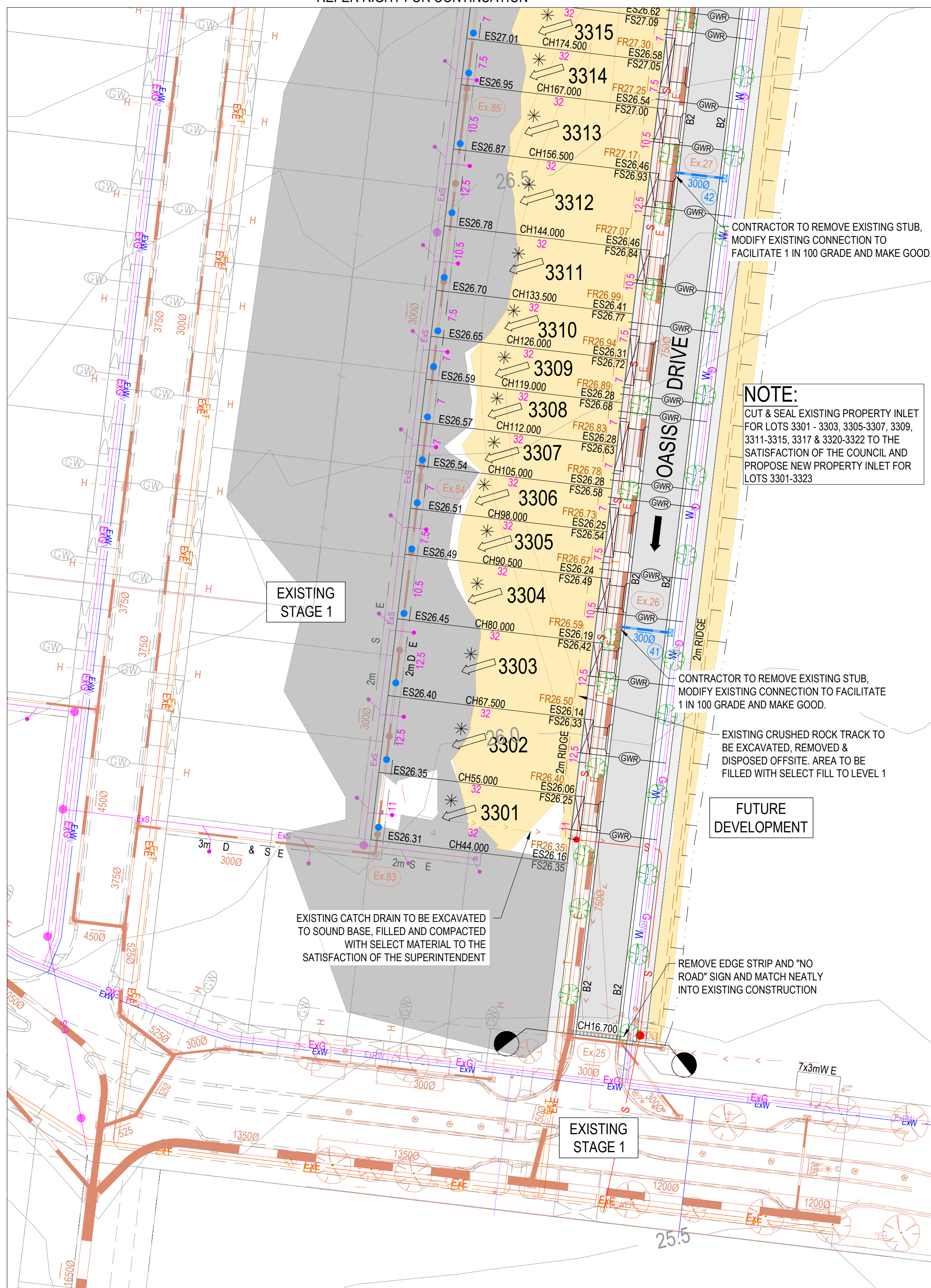
THE LOCATIONS OF UNDERGROUND & OVERHEAD SERVICES ARE APPROXIMATE ONLY & THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. LOCATE ALL UNDERGROUND SERVICES BEFORE COMMENCEMENT OF WORKS

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www.1100.com.au

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	CLIENT	PROJECT	DRAWING TITLE	STATUS	SCALE AT A1	DRAWN	DESIGNED
						 Communities Designed for Living	 Suite 1, 2 Bloomsbury Street Geelong, VIC, Australia 3220		ISSUED FOR APPROVAL NOT FOR CONSTRUCTION	1:2000 @ A1	B.LEECH	C.ROHDE
										PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
										M.TROUNCE	T.PALIOS	JULY 2021
0	25/08/21	CONSTRUCTION ISSUE	C.ROHDE	M.TROUNCE	T.PALIOS					PROJECT No.	DRAWING No.	REVISION
C	24/08/21	AMENDED TO COUNCIL COMMENTS (20/08/21)	C.ROHDE	M.TROUNCE	T.PALIOS					L013901	R100	0
B	06/08/21	TENDER ISSUE	C.ROHDE	M.TROUNCE	T.PALIOS							
A	29/07/2021	ISSUED FOR APPROVAL	B.LEECH	M.TROUNCE	T.PALIOS							



REFER RIGHT FOR CONTINUATION



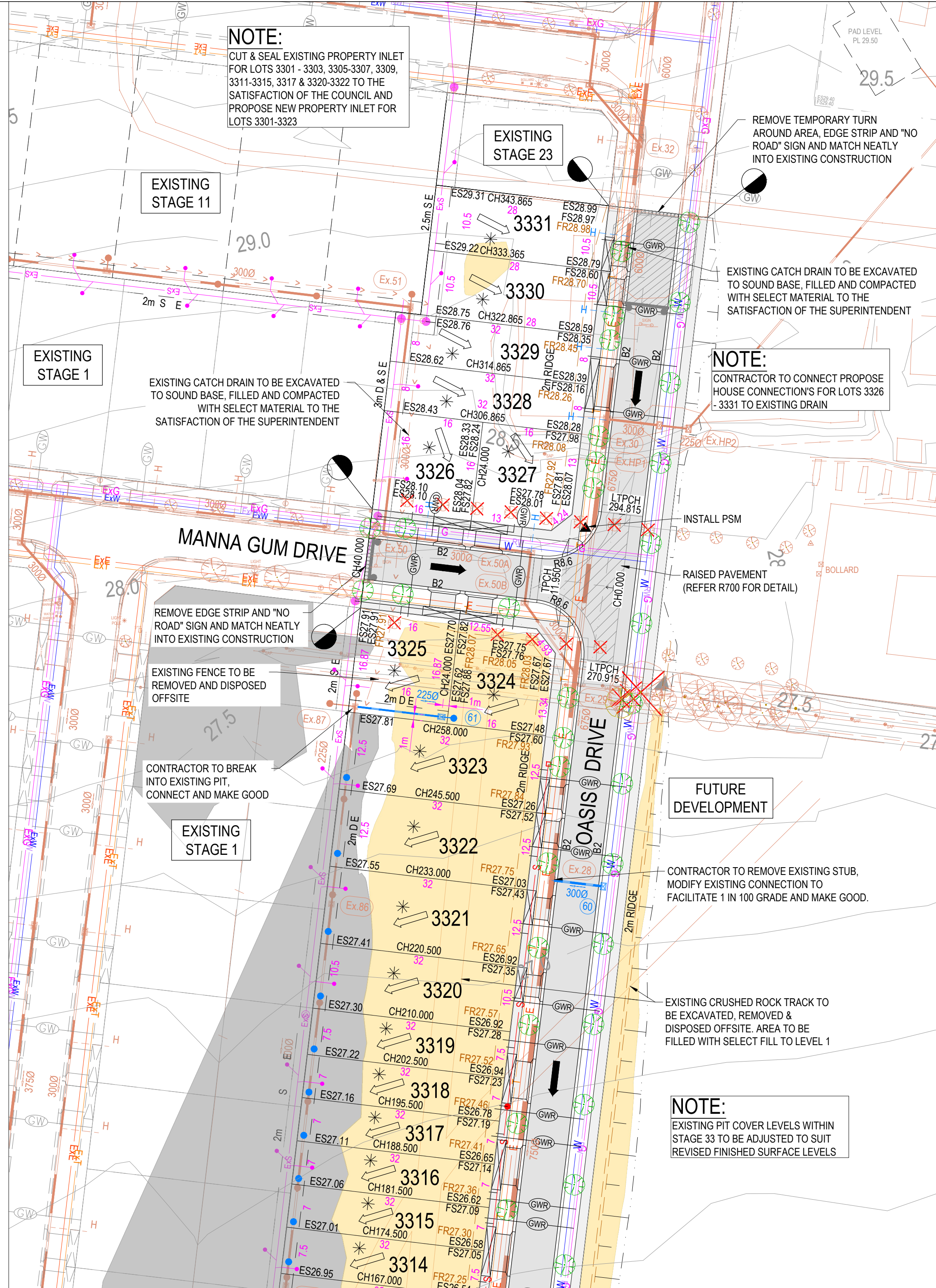
SERVICES OFFSET SCHEDULE

ROAD NAME	GAS		RECYCLE WATER		POTABLE WATER		TELSTRA		ELECTRICITY	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
MANNA GUM DRIVE	N	2.10	N	2.50	N	3.20	S	1.775	S	2.60
OASIS DRIVE	E	2.10	E	2.50	E	3.20	W	1.775	W	2.60

NOTE: STREET TREES TO BE INSTALLED IN THE CENTRE OF ALL NATURE STRIPS

NOTE:

CUT & SEAL EXISTING PROPERTY INLET FOR LOTS 3301 - 3303, 3305-3307, 3309, 3311-3315, 3317 & 3320-3322 TO THE SATISFACTION OF THE COUNCIL AND PROPOSE NEW PROPERTY INLET FOR LOTS 3301-3323



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Endorsed Plan
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Sheet 2 of 14
Approved By Daniel Cromberge
Approved Date 26/08/2021

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Certification No: 15270

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- TACTILE PAVERS
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELSTRA
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- RETAINING WALL
- BUILDING ENVELOPE
- PAVEMENT TREATMENT
- STRUCTURAL FILL > 200mm DEEP
- EX. STRUCTURAL FILL > 200mm DEEP
- DIRECTION OF FALL
- OVERLAND FLOW
- ALLOTMENT TO BE GRADED EVENLY IN
- DIRECTION OF FALL TO LEVELS INDICATED
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN
- "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY

NOTES:

- ALL VEHICLE AND PRAM CROSSING LAYBACKS, TO BE MINIMUM OF 1.0m FROM PITS.
- ALL PRAM CROSSINGS TO BE A MINIMUM 2.0m FROM VEHICLE CROSSINGS.
- ALL PRAM CROSSINGS TO BE DDA COMPLIANT.
- VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF LANDSCAPE WORKS.
- THE USE OF DIRECTIONAL AND HAZARD TACTILE PAVERS MUST ACCORD WITH SECTION 2.2.3.1 OF AS/NZS 1428.4:2002.
- SEWER MAINTENANCE HOLE CONVERTER SLAB OR CONE, TO BE ROTATED TO ENSURE COVER POSITION IS CENTRALLY LOCATED WITHIN FOOTPATH.
- CHAINAGES FOR SETOUT OF PROPERTY INLET POINTS, SERVICING FUTURE LOTS, ARE MEASURED FROM THE DOWNSTREAM PIT.
- CONTRACTOR TO LOCATE ALL EXISTING ASSETS PRIOR TO COMMENCEMENT OF WORKS. ANY DAMAGE TO EXISTING ASSETS TO BE RECTIFIED AT CONTRACTOR'S EXPENSE.
- CONTRACTOR TO VERIFY DEPTH OF EXISTING SERVICES, PRIOR TO COMMENCEMENT OF CONSTRUCTION.

NOTE: STREET TREE LOCATIONS SHOWN ARE INDICATIVE ONLY. ULTIMATE LOCATION IS TO BE PROVIDED/CONFIRMED BY LANDSCAPE ARCHITECTS

WARNING BEWARE OF UNDERGROUND & OVERHEAD SERVICES

The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works

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1:500 10 5 0 10 20 A1
1:1000

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	25/08/21	CONSTRUCTION ISSUE	C.ROHDE	M.TROUNCE	T.PALIOS
C	24/08/21	AMENDED TO COUNCIL COMMENTS (20/08/21)	C.ROHDE	M.TROUNCE	T.PALIOS
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Suite 1, 2 Bloomsbury Street
Geelong, VIC, Australia 3220



ARMSTRONG - STAGE 33
LAYOUT PLAN

ISSUED FOR
CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
1:500 @ A1	B.LEECH	C.ROHDE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JULY 2021
PROJECT No.	DRAWING No.	REVISION
L013901	R200	0

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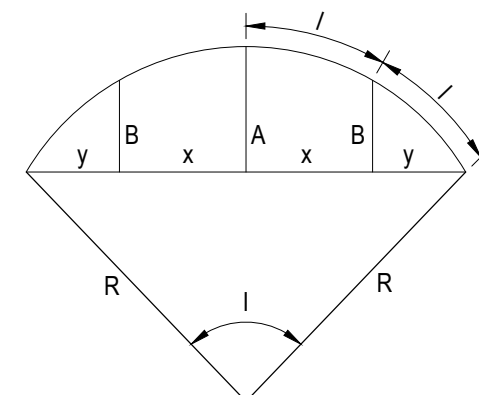
Certification No: 15270

LEGEND - INTERSECTION PLAN
STORMWATER DRAIN & PIT
EXISTING STORMWATER DRAIN & PIT
MAJOR CONTOUR - 0.1m
MINOR CONTOUR - 0.05m
CROWN / GRADE LINE

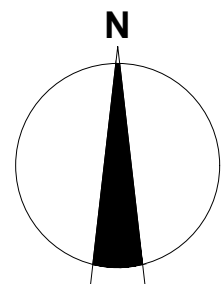
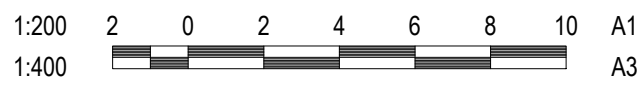
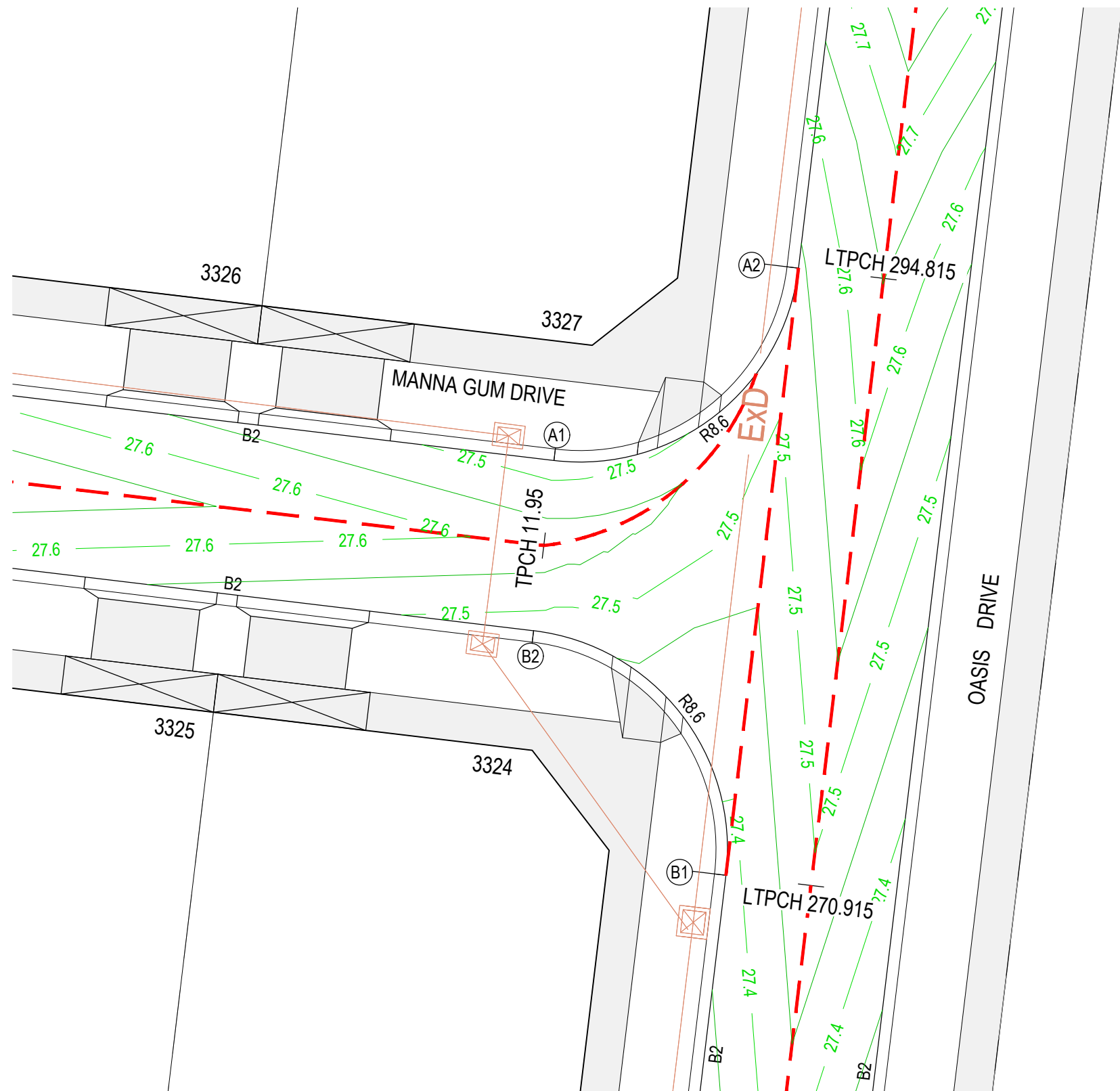
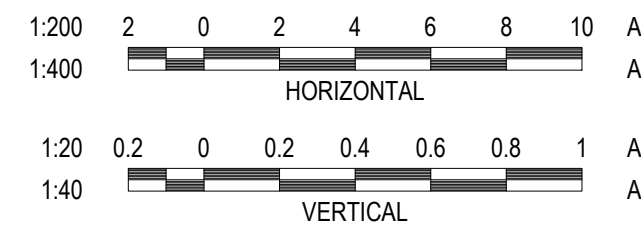
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LEGEND

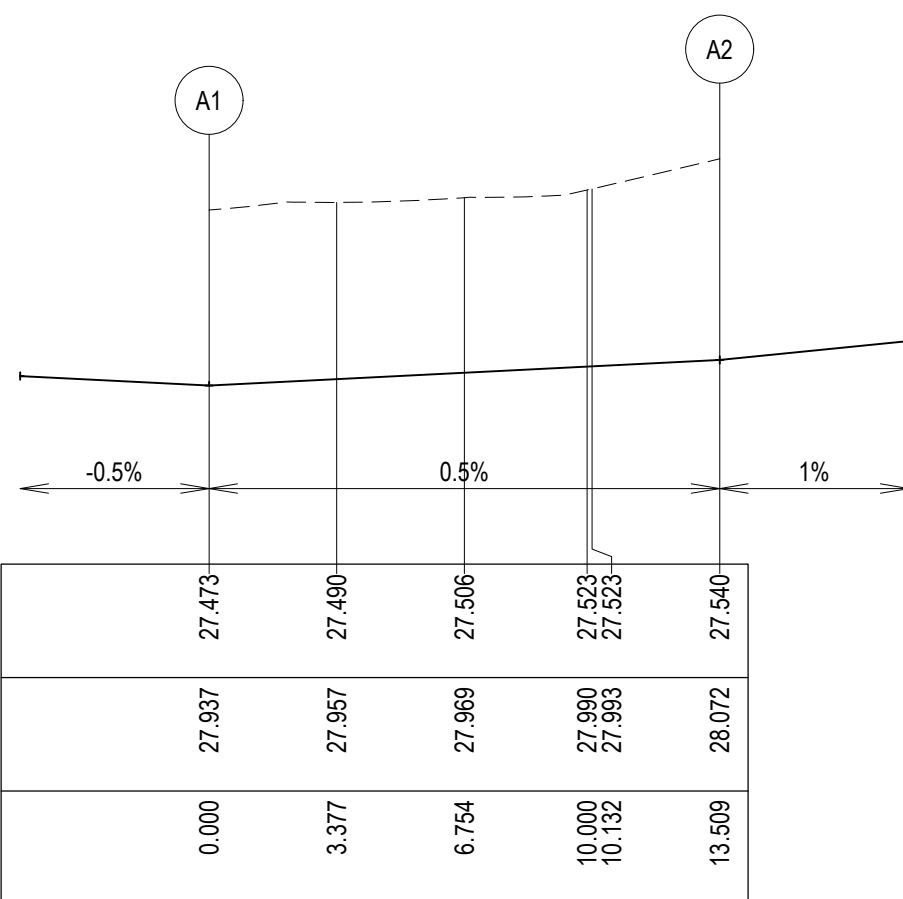
EXISTING SURFACE
DESIGN LINE



LIP PROFILE SETOUT



VERTICAL GEOMETRY
DATUM RL27
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE



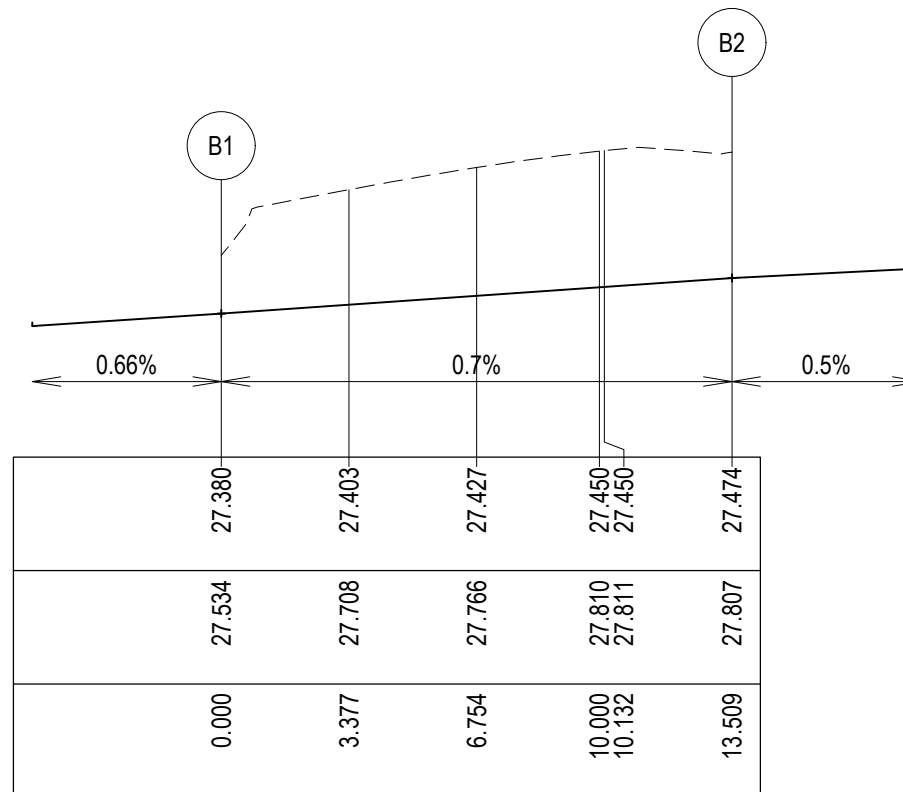
LIP LINE A

ALIGNMENT A

PT NO	EASTING	NORTHING	RL
A1	266689.958	5765674.464	27.473
A2	266689.518	5765681.982	27.540

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
A1 - A2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	27.506

VERTICAL GEOMETRY
DATUM RL27
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE



LIP LINE B

ALIGNMENT B

Pt no	Easting	Northing	RL
B1	266689.680	5765658.251	27.380
B2	266689.163	5765667.812	27.474

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
B1 - B2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	27.427

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0	25/08/21	CONSTRUCTION ISSUE	C.ROHDE	M.TROUNCE	T.PALIOS
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ARMSTRONG - STAGE 33
INTERSECTION DETAILS

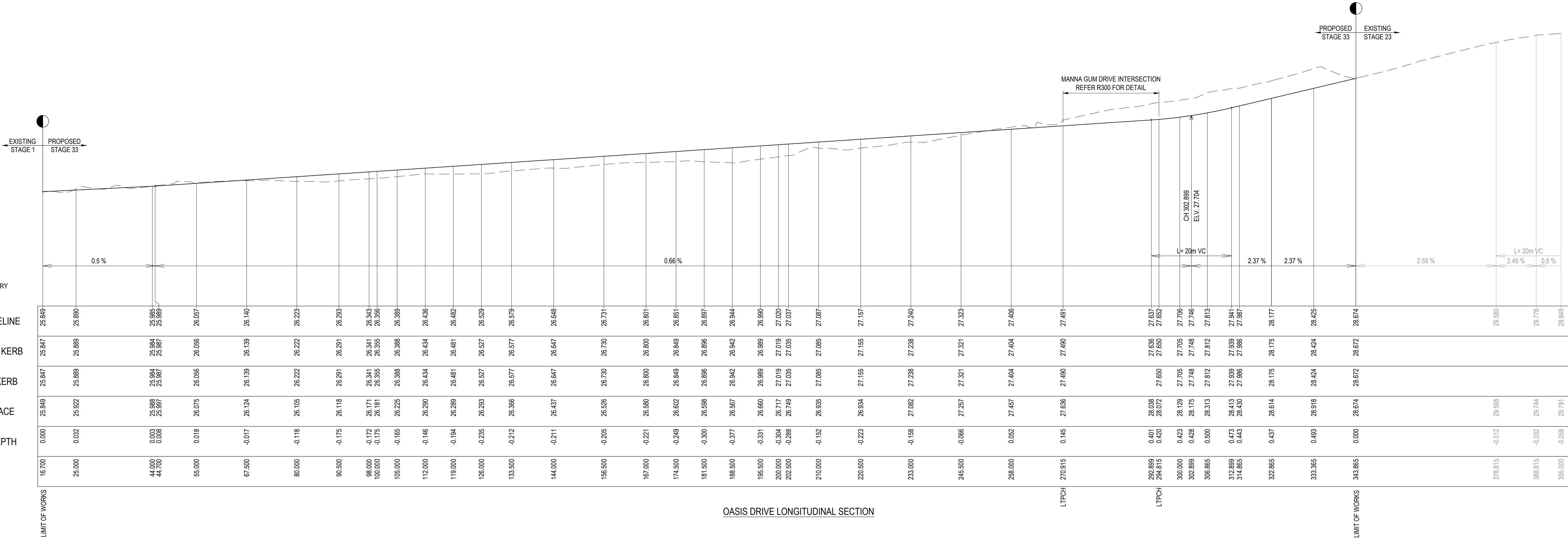
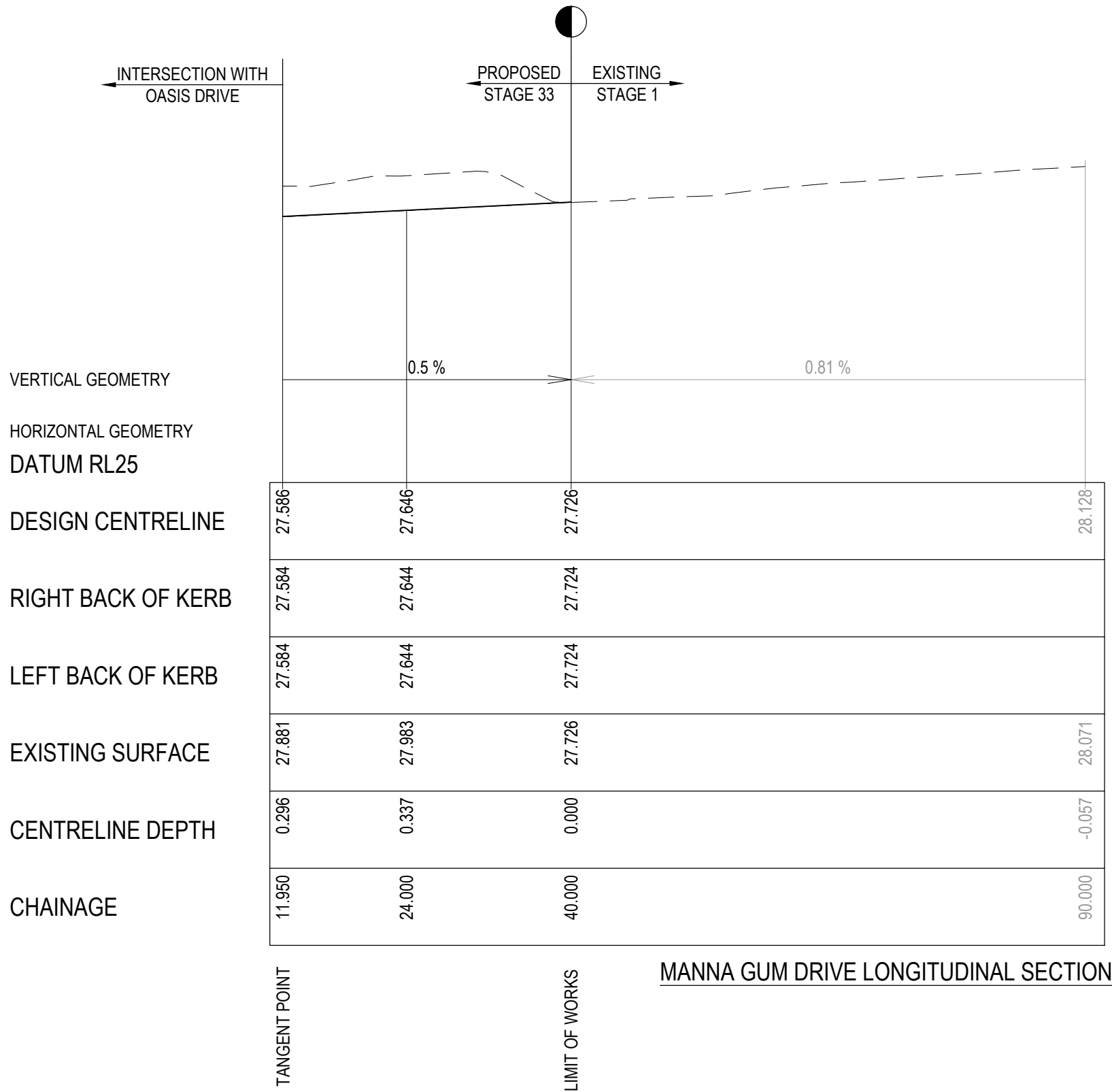
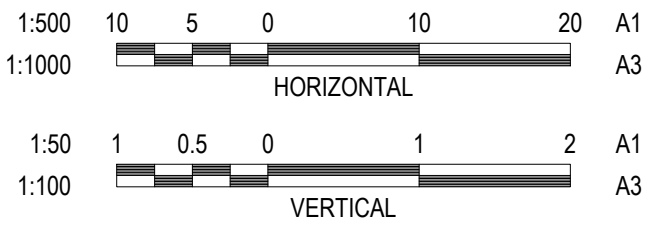
ISSUED FOR
CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	B.LEECH	C.ROHDE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JULY 2021
PROJECT No.	DRAWING No.	REVISION
L013901	R300	0

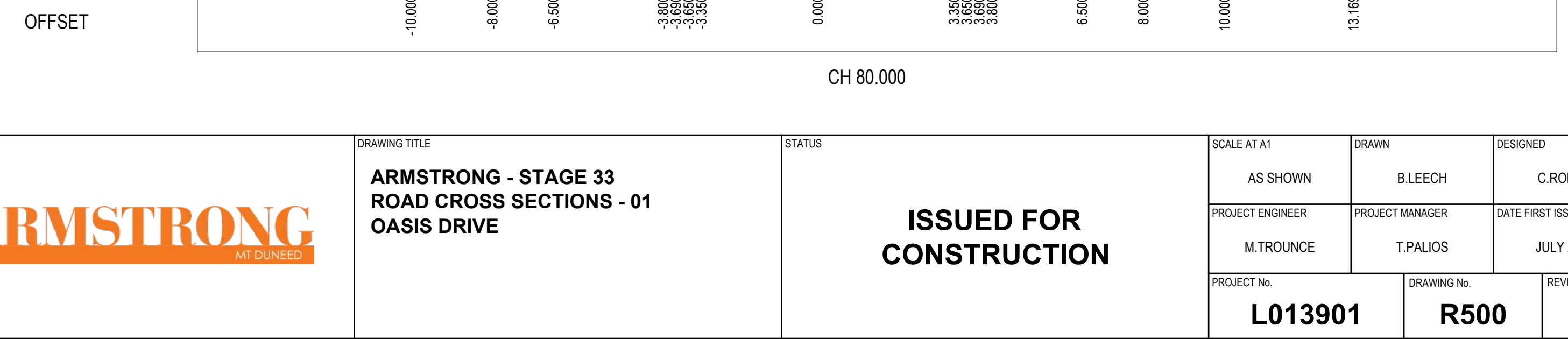
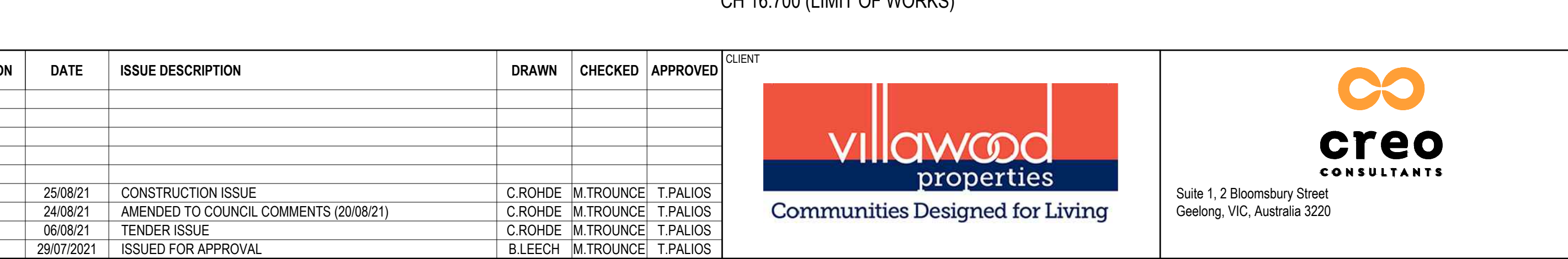
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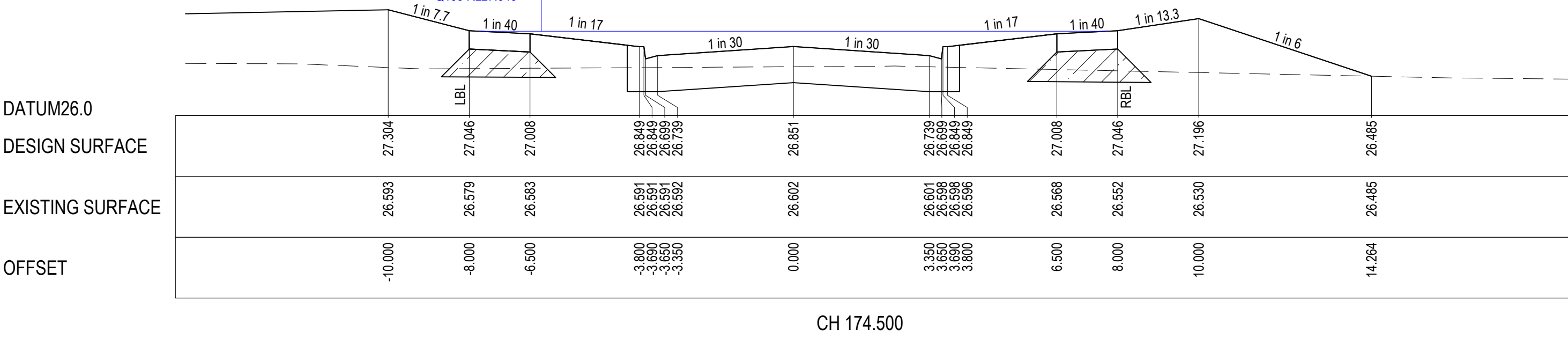
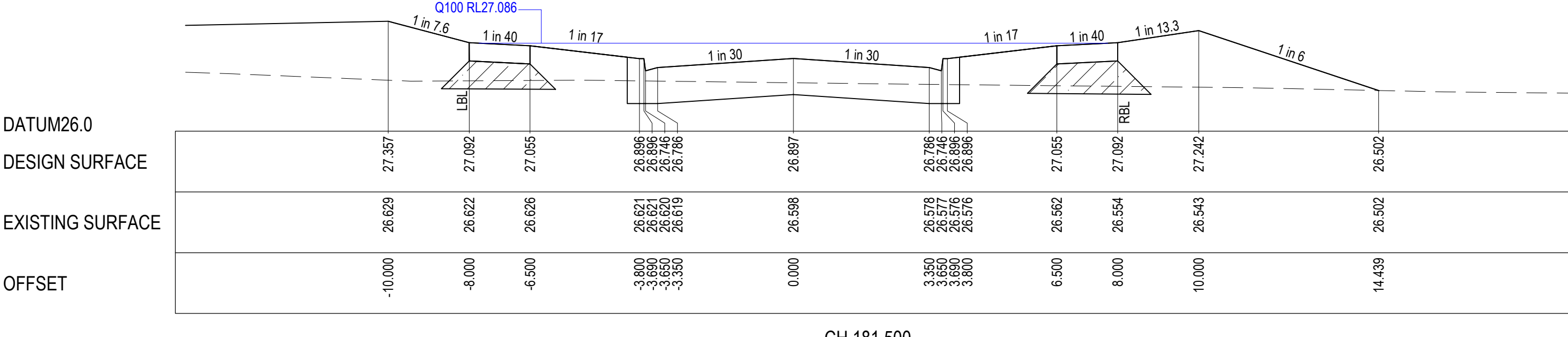
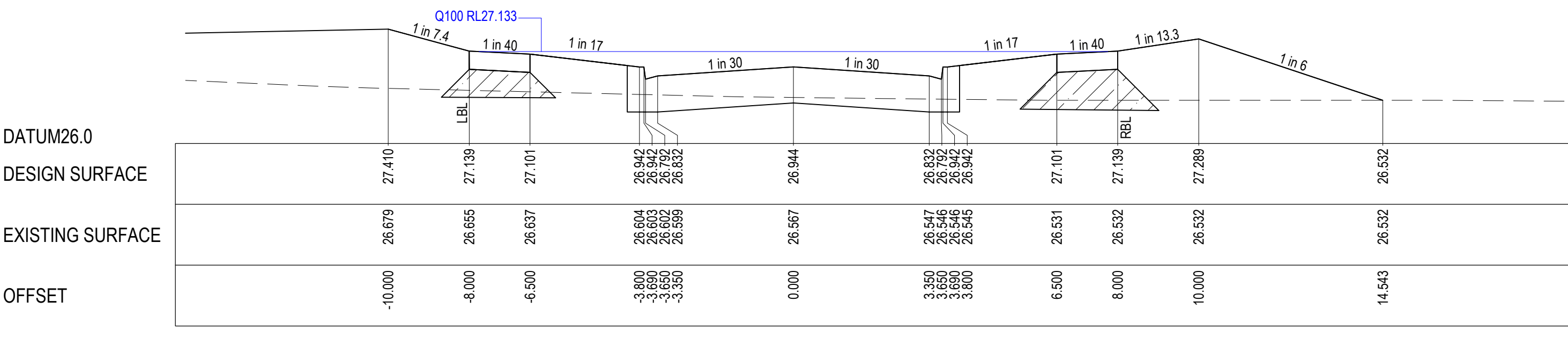
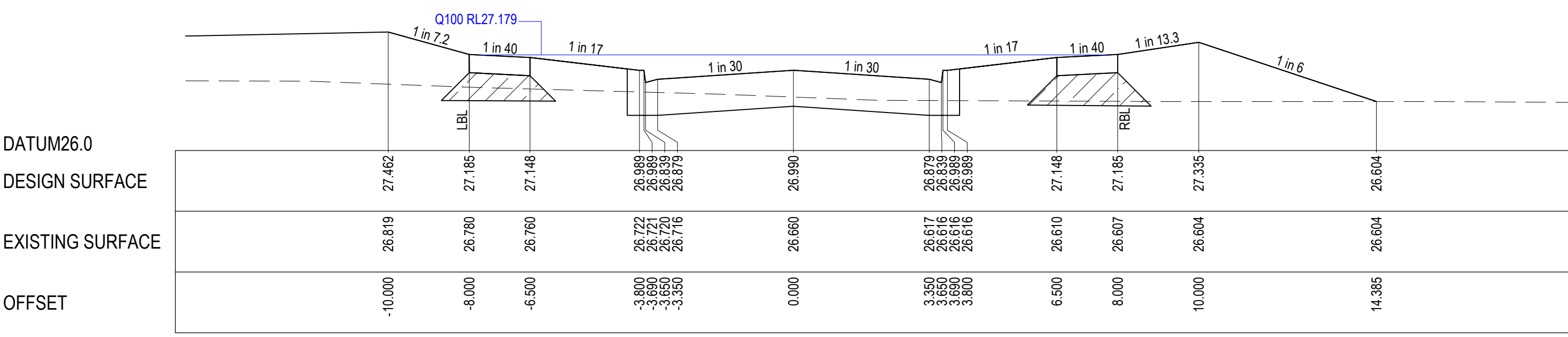
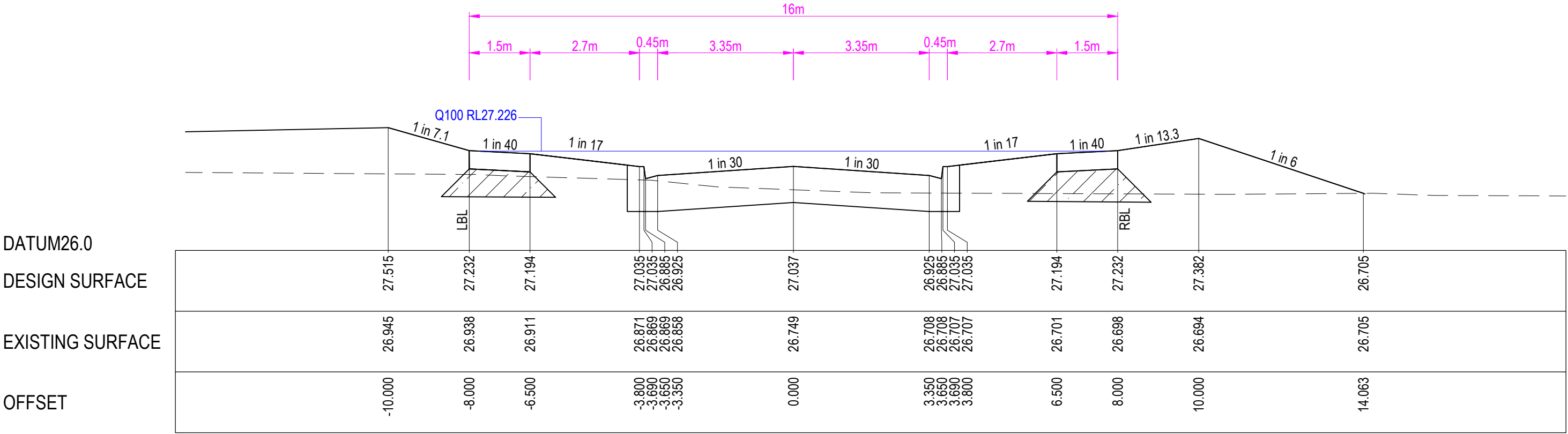
EXISTING SURFACE

DESIGN LINE

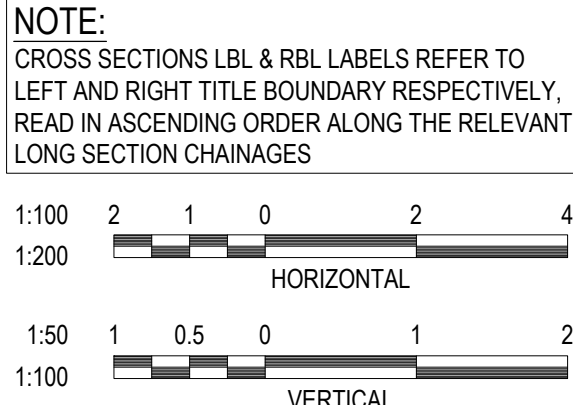
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0	25/08/21	CONSTRUCTION ISSUE	C.ROHDE	M.TROUNCE	T.PALIOS							
C	24/08/21	AMENDED TO COUNCIL COMMENTS (20/08/21)	C.ROHDE	M.TROUNCE	T.PALIOS							
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A	29/07/2021	ISSUED FOR APPROVAL	B.LEECH	M.TROUNCE	T.PALIOS							
										PROJECT No.	DRAWING No.	REVISION
										L013901	R400	0



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P:\2018\80016-VILLAWOOD-ARMSTRONG-18016-33-03-ROAD-CROSS-SECTIONS.DWG

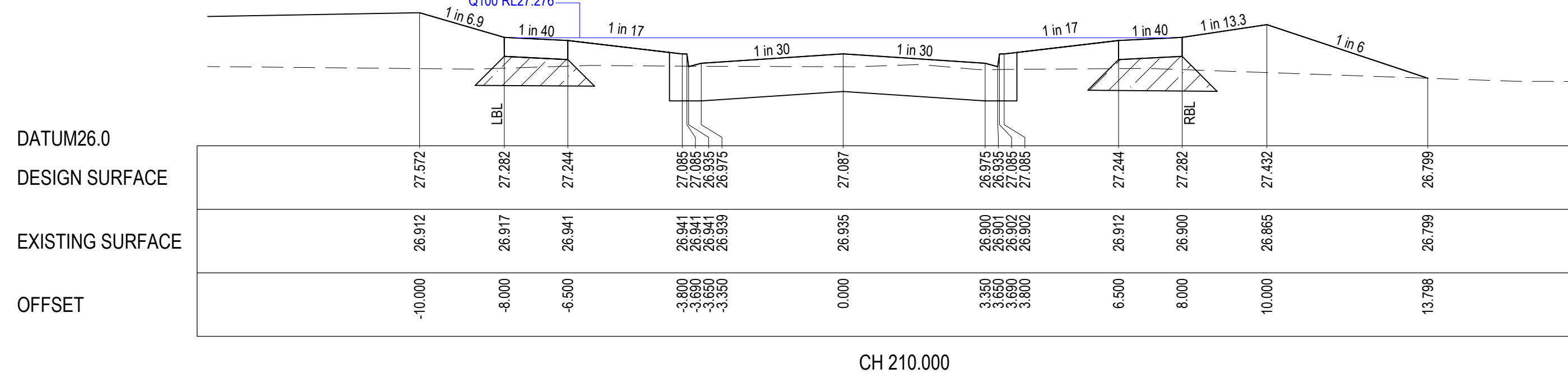
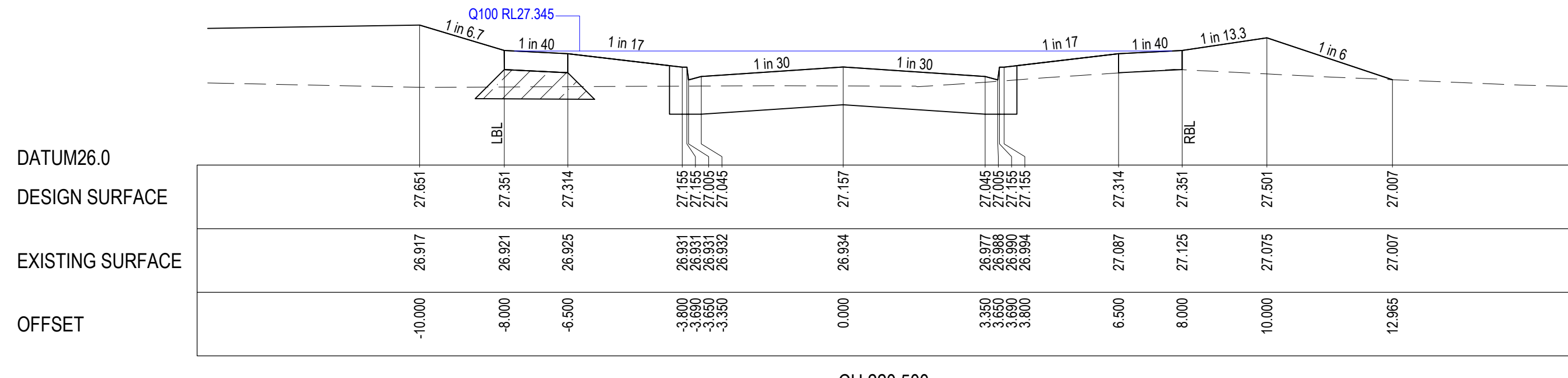
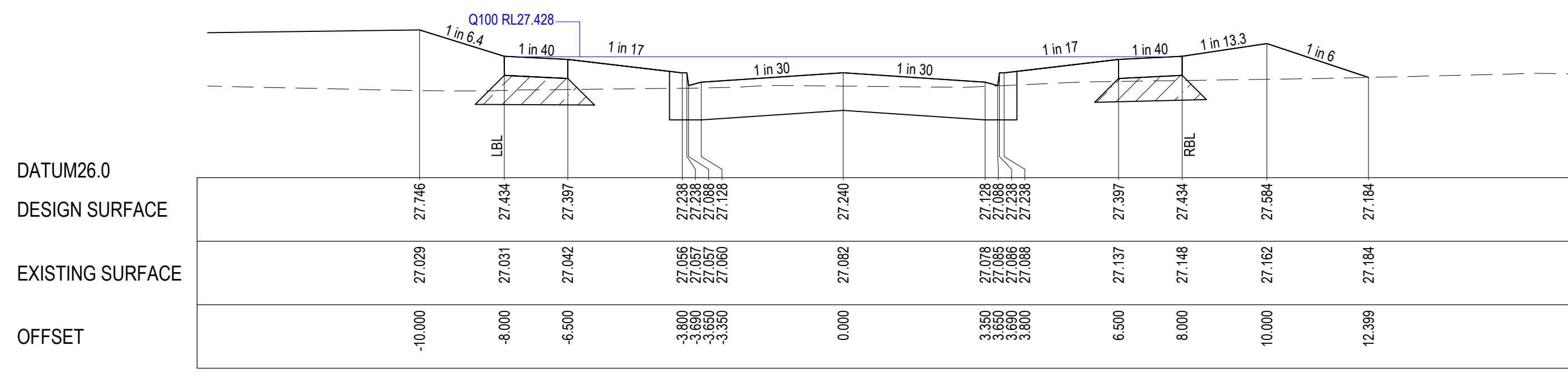
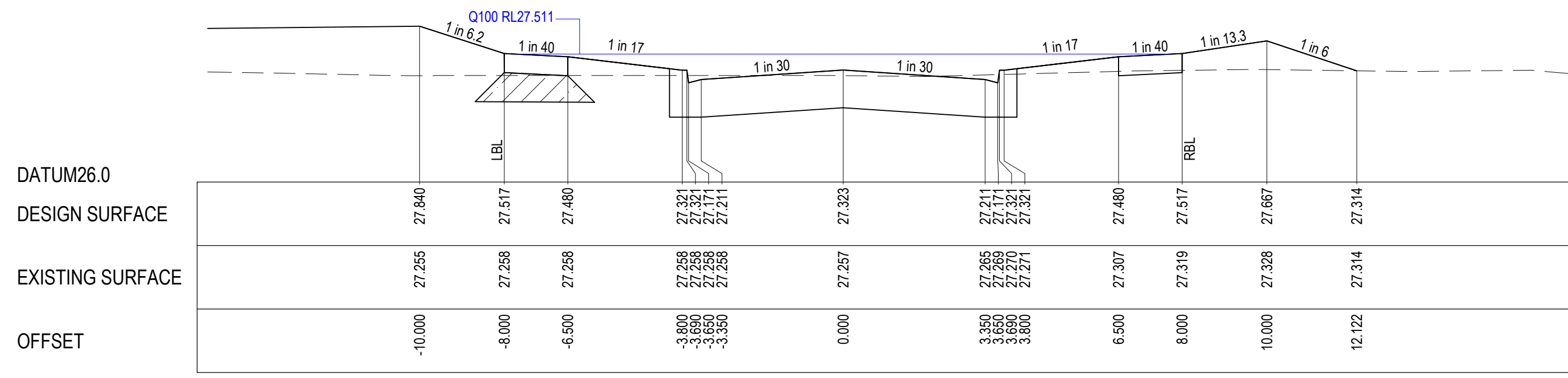
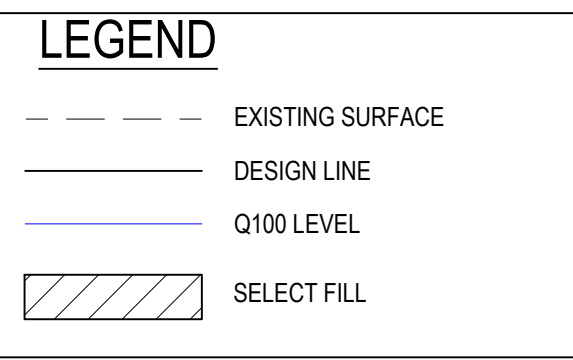





NOTE:
SELECT STRUCTURAL FILL REQUIRED UNDER
PAVEMENT AND FOOTPATHS @ 45° WHERE
CONSTRUCTED ABOVE NATURAL SURFACE.
SELECT FILL IS TO BE TO LEVEL 1 STANDARD
AND IN ACCORDANCE WITH SECTION 5.4.5 OF
"ARMSTRONG CREEK PRECINCT 1 STAGES 1
& 2 GEOTECHNICAL INVESTIGATION"
PREPARED BY TONKIN & TAYLOR (FILE NAME:
3187.000.R1.1, DATED DECEMBER 2012).



CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL
GREATER GEELONG CITY COUNCIL
PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME
Endorsed Plan
Planning Permit No: PP-496-2012-H
Sheet 7 of 14
Approved By Daniel Cromberge
Approved Date 26/08/2021
NOTE: THIS IS NOT A BUILDING APPROVAL

Certification No: 15270







REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	CLIENT	PROJECT	DRAWING TITLE	STATUS	SCALE AT A1	DRAWN	DESIGNED	
						 Communities Designed for Living	 Suite 1, 2 Bloomsbury Street Geelong, VIC, Australia 3220		ARMSTRONG - STAGE 33 ROAD CROSS SECTIONS - 03 OASIS DRIVE	ISSUED FOR CONSTRUCTION	AS SHOWN	B.LEECH	C.ROHDE
					PROJECT ENGINEER						PROJECT MANAGER	DATE FIRST ISSUE	
					M.TROUNCE						T.PALIOS	JULY 2021	
					PROJECT No.						DRAWING No.	REVISION	
					L013901						R502	0	
0	25/08/21	CONSTRUCTION ISSUE	C.ROHDE	M.TROUNCE	T.PALIOS								
C	24/08/21	AMENDED TO COUNCIL COMMENTS (20/08/21)	C.ROHDE	M.TROUNCE	T.PALIOS								
B	06/08/21	TENDER ISSUE	C.ROHDE	M.TROUNCE	T.PALIOS								
A	29/07/2021	ISSUED FOR APPROVAL	B.LEECH	M.TROUNCE	T.PALIOS								

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

**GREATER GEELONG CITY COUNCIL
PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME**

**Endorsed Plan
Planning Permit No: PP-496-2012-H
Sheet 9 of 14
Approved By Daniel Cromberge
Approved Date 26/08/2021**

NOTE: THIS IS NOT A BUILDING APPROVAL

 Dashed line symbol
 EXISTING SURFACE
 Solid black line symbol
 DESIGN LINE
 Solid blue line symbol
 Q100 LEVEL
 Hatched area symbol
 SELECT FILL



SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	B.LEECH	C.ROHDE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JULY 2021
PROJECT No.	DRAWING No.	REVISION
L013901	R504	0

NOTES

1. PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWINGS:
- BENEATH DRIVEWAY CROSSEOVERS TO THE UNDERSIDE OF THE PAVEMENT OR CROSSEOVER.
- ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE.
2. ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILISED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOMINAL SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER.
3. ALL DRAINAGE PIPES TO BE SPIGOT-SOCKET RUBBER RING JOINTED (RRJ).
4. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
5. WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.
6. ALL SPLAYED SECTIONS OF PIPE ARE TO BE BACKFILLED WITH 2% STABILIZED SAND, 300mm ABOVE TOP OF PIPE

DRAINAGE PIPES

ALL STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTORS ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS.3725-1989, LOADS ON BURIED PIPES. CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPAIRED AT THE CONTRACTORS COST

LEGEND

- EXISTING SURFACE
DESIGN SURFACE
DRAINAGE PIPE/PIT
FUTURE DRAINAGE PIPE/PIT
HYDRUALIC GRADE LINE
CRUSHED ROCK BACKFILL

NOTE:

IN ACCORDANCE WITH C.O.G.G DESIGN NOTE 8 (DATED JANUARY 2020) EXISTING DRAINAGE LOCATED WITHIN PROPOSED STAGE WORKS ARE REQUIRED TO BE RE-CCTVD TO CONFIRM NO CONSEQUENTIAL DAMAGE HAS OCCURRED

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

GREATER GEELONG CITY COUNCIL
PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME

Endorsed Plan
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Sheet 10 of 14
Approved By Daniel Cromberge
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Certification No: 15270



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	25/08/21	CONSTRUCTION ISSUE	C.ROHDE	M.TROUNCE	T.PALIOS
C	24/08/21	AMENDED TO COUNCIL COMMENTS (20/08/21)	C.ROHDE	M.TROUNCE	T.PALIOS
B	06/08/21	TENDER ISSUE	C.ROHDE	M.TROUNCE	T.PALIOS
A	29/07/2021	ISSUED FOR APPROVAL	B.LEECH	M.TROUNCE	T.PALIOS



Suite 1, 2 Bloomsbury Street
Geelong, VIC, Australia 3220



DRAWING TITLE
**ARMSTRONG - STAGE 33
DRAINAGE LONG SECTIONS - 01**

**ISSUED FOR
CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	B.LEECH	C.ROHDE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JULY 2021
PROJECT No.	DRAWING No.	REVISION
L013901	R600	0

- NOTES
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NOTE:
IN ACCORDANCE WITH C.O.G.G DESIGN NOTE 8 (DATED JANUARY 2020) EXISTING DRAINAGE LOCATED WITHIN PROPOSED STAGE WORKS ARE REQUIRED TO BE RE-CCTV'D TO CONFIRM NO CONSEQUENTIAL DAMAGE HAS OCCURRED

- LEGEND
- EXISTING SURFACE
 - DESIGN SURFACE
 - DRAINAGE PIPE/PIT
 - FUTURE DRAINAGE PIPE/PIT
 - HYDRUALIC GRADE LINE
 - CRUSHED ROCK BACKFILL

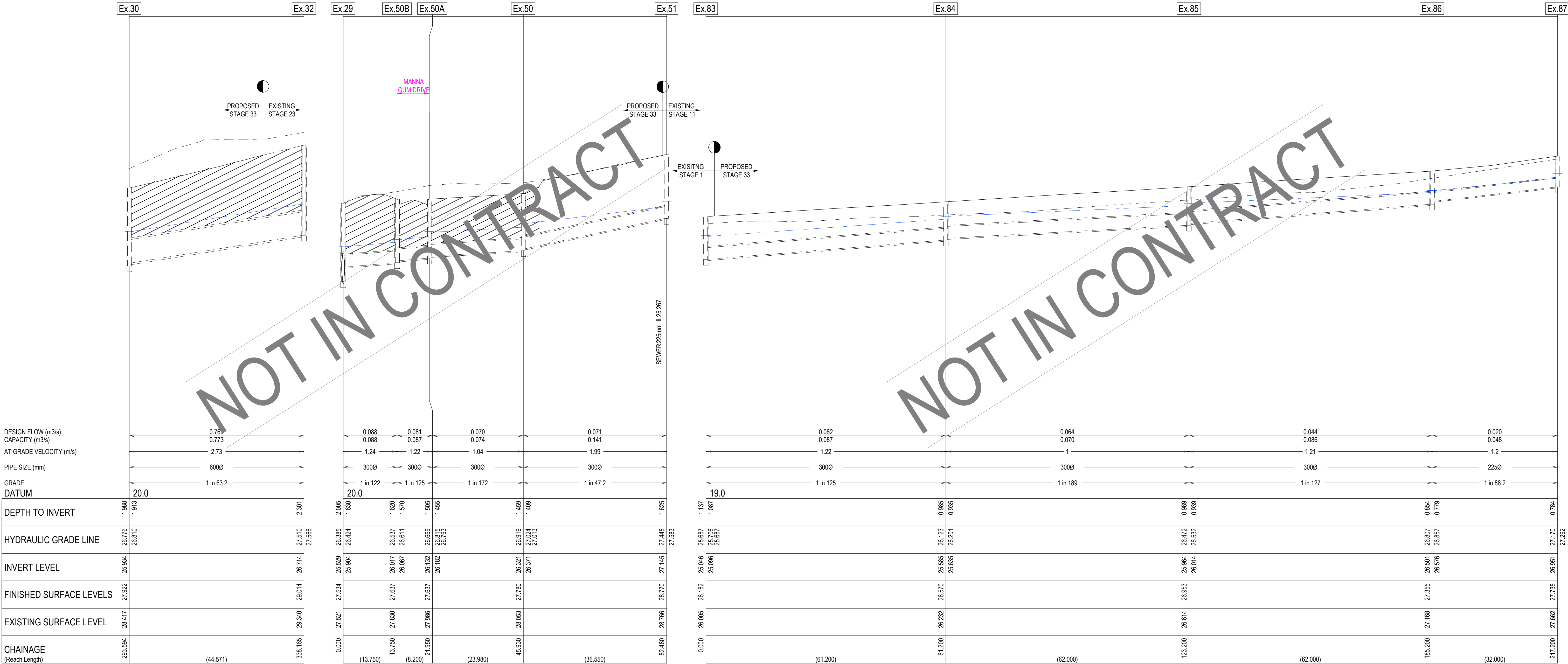
CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

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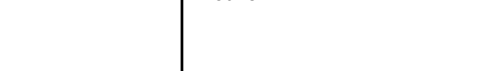

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Planning Permit No: PP-496-2012-H
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Approved By Daniel Cromberge
Approved Date 26/08/2021

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Certification No: 15270



P:\2018\80016 - VILLAWOOD ARMSTRONG\80016-18\016-33\DWG\2 DRAFTING\CAD\18016-33-1800 - DRAINAGE LONG SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	<div><div></div><div>Communities Designed for Living</div></div>	<div><div></div><div>Suite 1, 2 Bloomsbury Street Geelong, VIC, Australia 3220</div></div>	<div><div></div></div>	PROJECT	DRAWING TITLE	ARMSTRONG - STAGE 33 DRAINAGE LONG SECTIONS - 02	STATUS	ISSUED FOR CONSTRUCTION	SCALE AT A1	DRAWN	DESIGNED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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NOTE:
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LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	FUTURE DRAINAGE PIPE/PIT
	HYDRUALIC GRADE LINE
	CRUSHED ROCK BACKFILL

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

GREATER GEELONG CITY COUNCIL
PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME

Endorsed Plan
Planning Permit No: PP-496-2012-H
Sheet 12 of 14
Approved By Daniel Cromberge
Approved Date 26/08/2021

NOTE: THIS IS NOT A BUILDING APPROVAL

Certification No: 15270

Ex.30 Ex.HP1 Ex.HP2

OASIS DRIVE


N.I.C

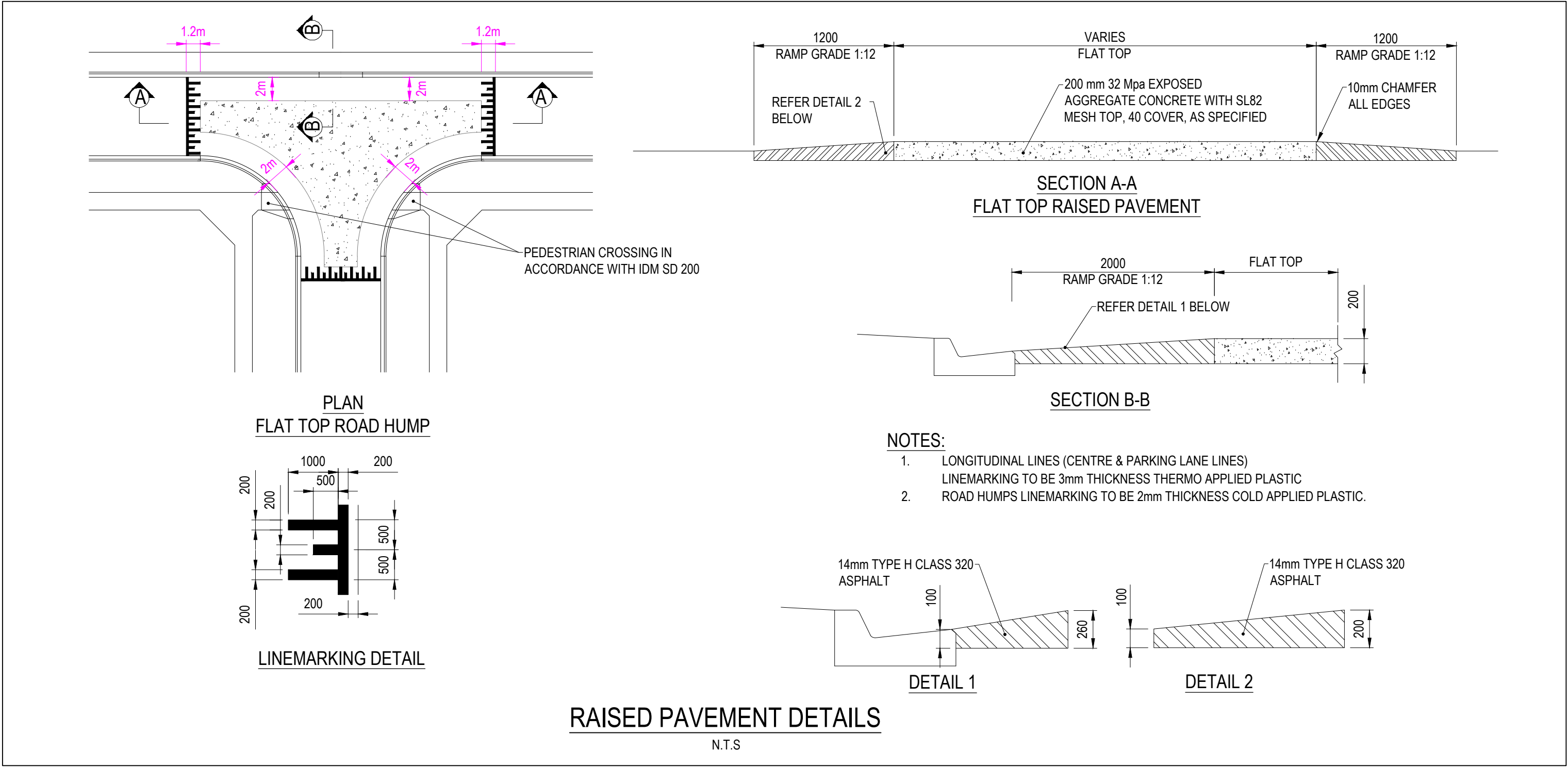
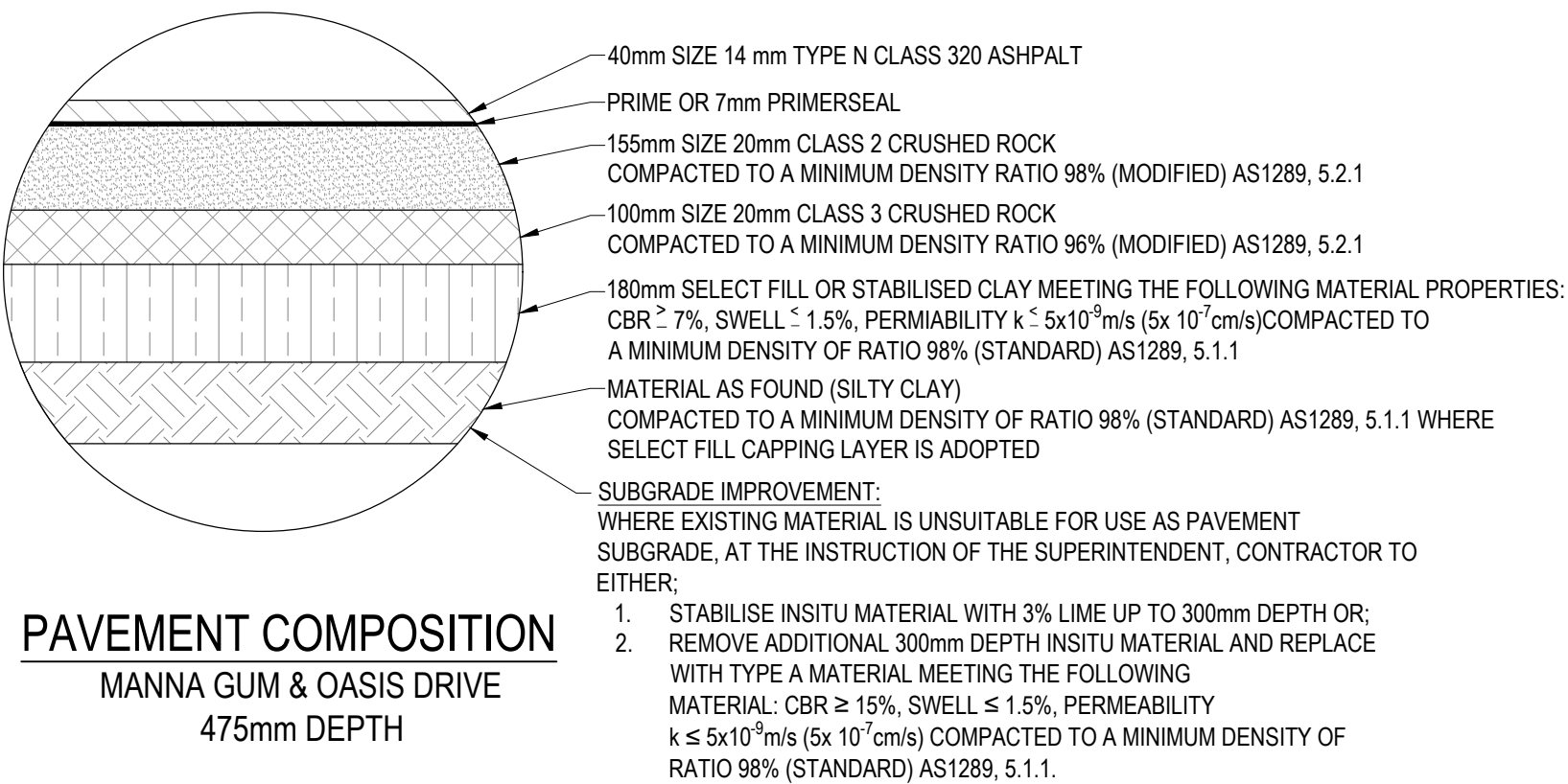
DESIGN FLOW (m3/s)	0.028	0.028
CAPACITY (m3/s)	0.143	0.052
AT GRADE VELOCITY (m/s)	2.02	1.3
PIPE SIZE (mm)	3000	2250
GRADE DATUM	1 in 77.4	1 in 128
DEPTH TO INVERT	1.988 1.613	1.499 1.449
HYDRAULIC GRADE LINE	26.399 26.309	26.719 26.735
INVERT LEVEL	25.934 26.309	26.419 26.469
FINISHED SURFACE LEVELS	27.922	27.919
EXISTING SURFACE LEVEL	28.417	28.420
CHAINAGE (Reach Length)	0.000 (8.549)	13.301 (4.751)

								PIT SCHEDULE				
PIT NAME	TYPE	INTERNAL		INLET		OUTLET		F.S.L. (m)	DEPTH(m)	EXISTING COVER LEVEL (m)	STANDARD DRAWING	REMARKS
		WIDTH(mm)	LENGTH(mm)	DIAMETER(mm)	INVERT R.L.(m)	DIAMETER(mm)	INVERT R.L.(m)					
Ex.26	Ex.JUNCTION PIT	900	900	Ex.750	24.176	Ex.750	24.126	26.271	2.145	26.073	IDM SD 430	EXISTING PIT TO BE RAISED TO SUIT THE FINISHED SURFACE AND CONVERTED TO A SIDE ENTRY PIT. REMOVE EXISTING STUB, MODIFY EXISTING CONNECTION TO FACILITATE 1 IN 100 GRADE AND MAKE GOOD.
				300	24.58							
Ex.27	Ex.JUNCTION PIT	900	900	Ex.750	24.655	Ex.750	24.605	26.763	2.158	26.401	IDM SD 430	EXISTING PIT TO BE RAISED TO SUIT THE FINISHED SURFACE AND CONVERTED TO A SIDE ENTRY PIT. REMOVE EXISTING STUB, MODIFY EXISTING CONNECTION TO FACILITATE 1 IN 100 GRADE AND MAKE GOOD.
				300	25.06							
Ex.28	Ex.JUNCTION PIT	900	900	Ex.675	25.182	Ex.750	25.107	27.281	2.174	27.145	IDM SD 430	EXISTING PIT TO BE RAISED TO SUIT THE FINISHED SURFACE AND CONVERTED TO A SIDE ENTRY PIT. REMOVE EXISTING STUB, MODIFY EXISTING CONNECTION TO FACILITATE 1 IN 100 GRADE AND MAKE GOOD.
				300	25.557							
Ex.29	Ex.JUNCTION PIT	900	900	Ex.675	25.579	Ex.675	25.529	27.503	1.974	27.400	IDM SD 430	EXISTING PIT TO BE RAISED TO SUIT THE FINISHED SURFACE AND CONVERTED TO A SIDE ENTRY PIT.
				Ex.300	25.904							
Ex.30	Ex.JUNCTION PIT	900	900	Ex.600	25.934	Ex.675	25.934	27.893	1.959	28.320	IDM SD 430	EXISTING PIT TO BE CUT DOWN TO SUIT THE FINISHED SURFACE AND CONVERTED TO A SIDE ENTRY PIT.
				Ex.300	26.309							
Ex.50B	Ex.JUNCTION PIT	600	900	Ex.300	26.067	Ex.300	26.017	27.609	1.592	27.830	IDM SD 430	EXISTING PIT TO BE CUT DOWN TO SUIT THE FINISHED SURFACE AND CONVERTED TO A SIDE ENTRY PIT.
Ex.50A	Ex.JUNCTION PIT	600	900	Ex.300	26.182	Ex.300	26.132	27.609	1.477	27.968	IDM SD 430	EXISTING PIT TO BE CUT DOWN TO SUIT THE FINISHED SURFACE AND CONVERTED TO A SIDE ENTRY PIT.
Ex.50	Ex.JUNCTION PIT	600	900	Ex.300	26.371	Ex.300	26.321	27.794	1.473	27.780	IDM SD 430	EXISTING PIT TO BE RAISED TO SUIT THE FINISHED SURFACE AND CONVERTED TO A SIDE ENTRY PIT.
Ex.84	Ex.JUNCTION PIT	600	900	Ex.300	25.635	Ex.300	25.585	26.541	0.956	26.570	IDM SD 425	EXISTING PIT TO BE CUT DOWN TO SUIT THE FINISHED SURFACE
Ex.85	Ex.JUNCTION PIT	600	900	Ex.300	26.014	Ex.300	25.964	26.946	0.982	26.953	IDM SD 425	EXISTING PIT TO BE CUT DOWN TO SUIT THE FINISHED SURFACE
Ex.86	Ex.JUNCTION PIT	600	900	Ex.225	26.576	Ex.300	26.501	27.491	0.990	27.347	IDM SD 425	EXISTING PIT TO BE RAISED TO SUIT THE FINISHED SURFACE
Ex.87	Ex.JUNCTION PIT	600	900	225	26.994	Ex.225	26.944	27.82	0.876	27.800	IDM SD 425	BREAK INTO EXISTING PIT AND CONNECT 225Ø PIPE AND MAKE GOOD.
Ex.HP1	Ex.JUNCTION PIT	600	900	Ex.225	26.469	Ex.300	26.419	27.919	1.500	28.800	IDM SD 430	EXISTING PIT TO BE CUT DOWN TO SUIT THE FINISHED SURFACE AND CONVERTED TO A SIDE ENTRY PIT.
EX.HP2	Ex.JUNCTION PIT	600	900	Ex.225	27.712	Ex.225	26.507	28.186	1.679	28.800	IDM SD 420	EXISTING PIT TO BE CUT DOWN TO SUIT THE FINISHED SURFACE.
41	SIDE ENTRY PIT	600	900	-	-	300	24.665	26.268	1.603	-	IDM SD 430	
42	SIDE ENTRY PIT	600	900	-	-	300	25.145	26.759	1.614	-	IDM SD 430	
60	SIDE ENTRY PIT	600	900	-	-	300	25.642	27.277	1.635	-	IDM SD 430	
61	JUNCTION PIT	600	900	-	-	225	27.134	27.881	0.747	-	IDM SD 425	

NOTE:
PIT COVERS ARE TO BE PROVIDED IN ACCORDANCE WITH CITY OF GREATER GEELONG DESIGN NOTE 13. ALL PITTS WITHIN ROAD RESERVE ARE TO BE CLASS C FIBREGLASS REINFORCED PLASTIC (FRP) UNLESS AGREED OTHERWISE.

P:2018180016-VILLAWOOD ARMSTRONG 18016 33016 2 DRAFTING CAD 18016 33-1800-DRAINAGE LONG SECTIONS DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	<div><div></div><div>Communities Designed for Living</div></div> <div>Suite 1, 2 Bloomsbury Street Geelong, VIC, Australia 3220</div>	PROJECT	DRAWING TITLE	<div>ISSUED FOR CONSTRUCTION</div>	STATUS	SCALE AT A1	DRAWN	DESIGNED
											AS SHOWN	B.LEECH	C.ROHDE
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											PROJECT No.	DRAWING No.	REVISION
0	25/08/21	CONSTRUCTION ISSUE	C.ROHDE	M.TROUNCE	T.PALIOS			ARMSTRONG - STAGE 33 DRAINAGE LONG SECTIONS - 03			L013901	R600	0
C	24/08/21	AMENDED TO COUNCIL COMMENTS (20/08/21)	C.ROHDE	M.TROUNCE	T.PALIOS								
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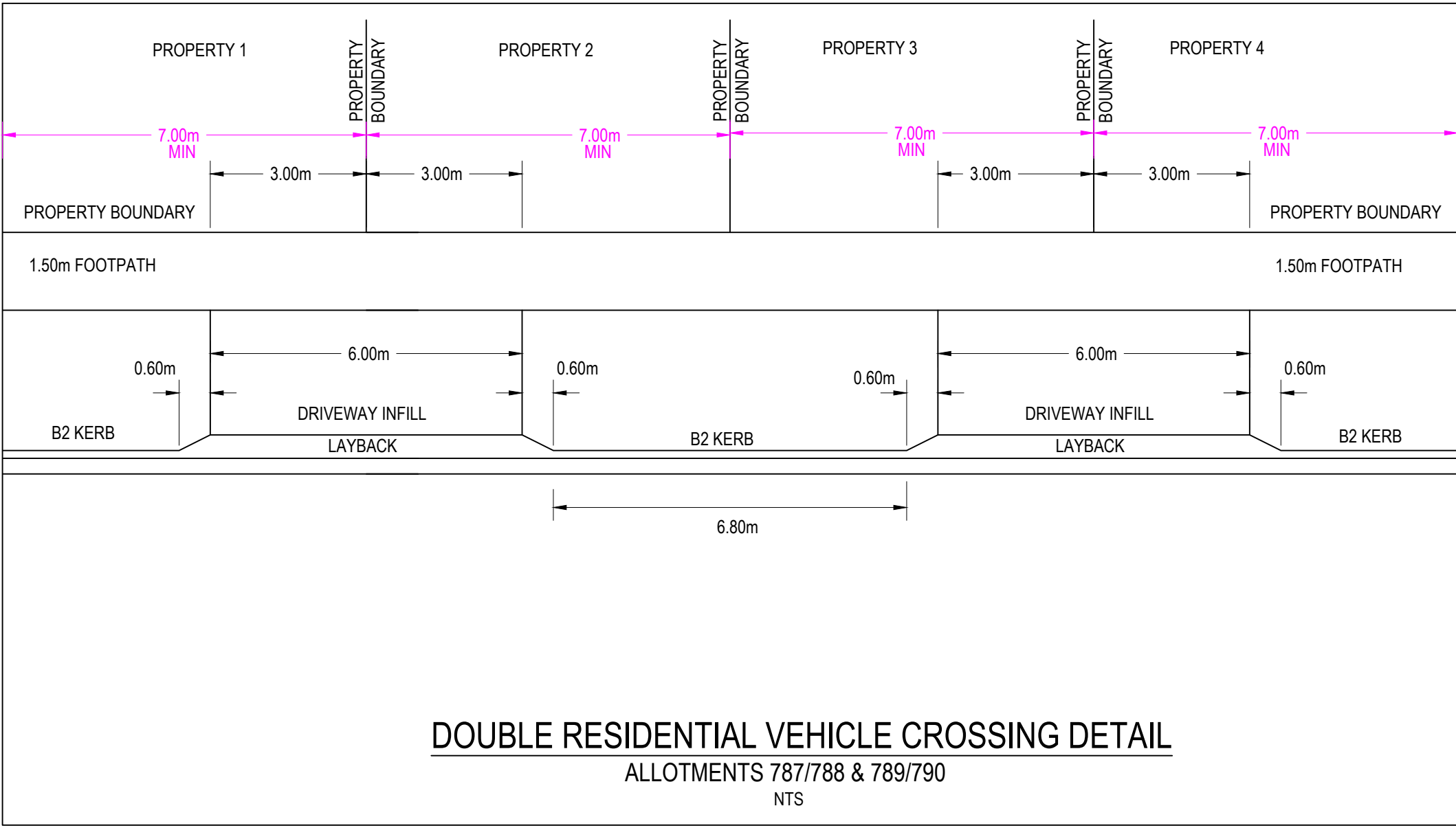
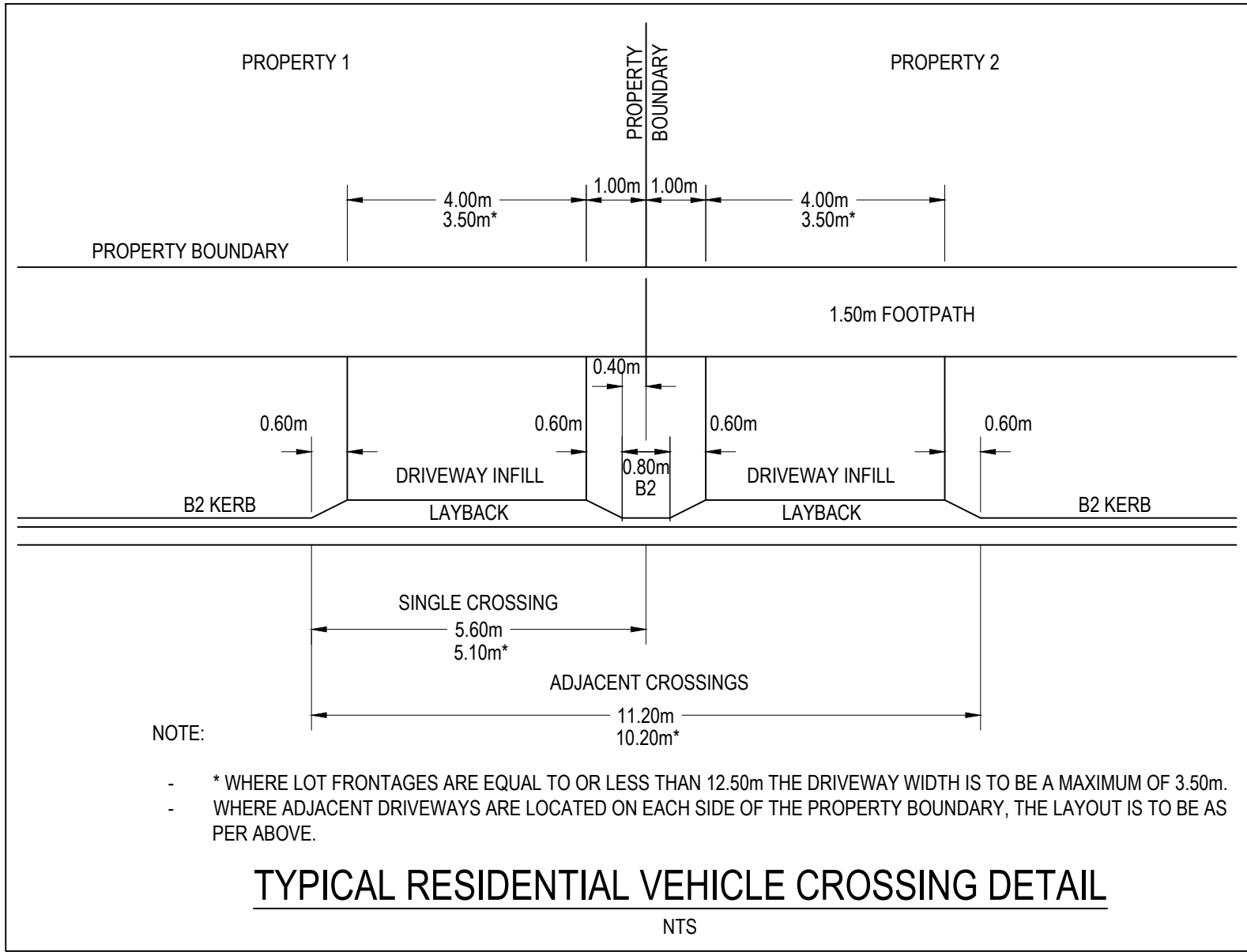
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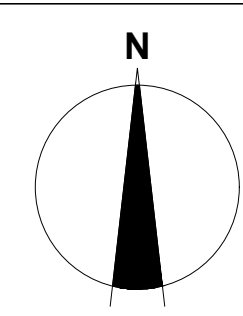
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						 Communities Designed for Living	 Suite 1, 2 Bloomsbury Street Geelong, VIC, Australia 3220		ARMSTRONG - STAGE 33 TYPICAL DETAILS	ISSUED FOR CONSTRUCTION	AS SHOWN	B.LEECH	C.ROHDE
					PROJECT ENGINEER						PROJECT MANAGER	DATE FIRST ISSUE	
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					PROJECT No.						DRAWING No.	REVISION	
					L013901						R700	0	
0	25/08/21	CONSTRUCTION ISSUE	C.ROHDE	M.TROUNCE	T.PALIOS								
C	24/08/21	AMENDED TO COUNCIL COMMENTS (20/08/21)	C.ROHDE	M.TROUNCE	T.PALIOS								
B	06/08/21	TENDER ISSUE	C.ROHDE	M.TROUNCE	T.PALIOS								
A	29/07/2021	ISSUED FOR APPROVAL	B.LEECH	M.TROUNCE	T.PALIOS								



CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL
GREATER GEELONG CITY COUNCIL
PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME

Endorsed Plan
Planning Permit No: PP-496-2012-H
Sheet 14 of 14
Approved By Daniel Cromberge
Approved Date 26/08/2021

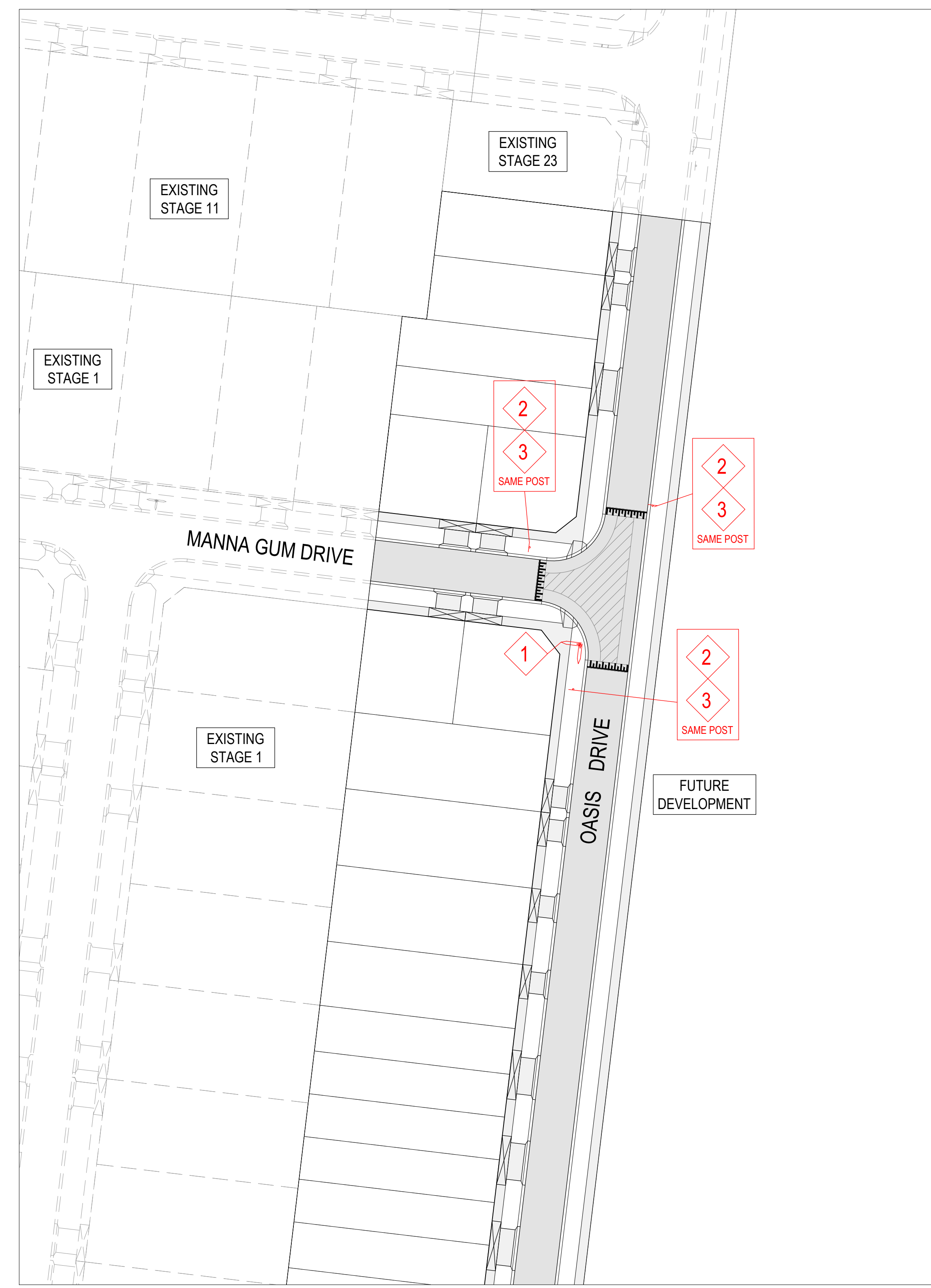
NOTE: THIS IS NOT A BUILDING APPROVAL

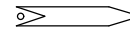
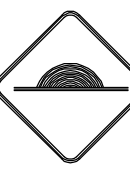

Certification No: 15270

REFER RIGHT FOR CONTINUATION

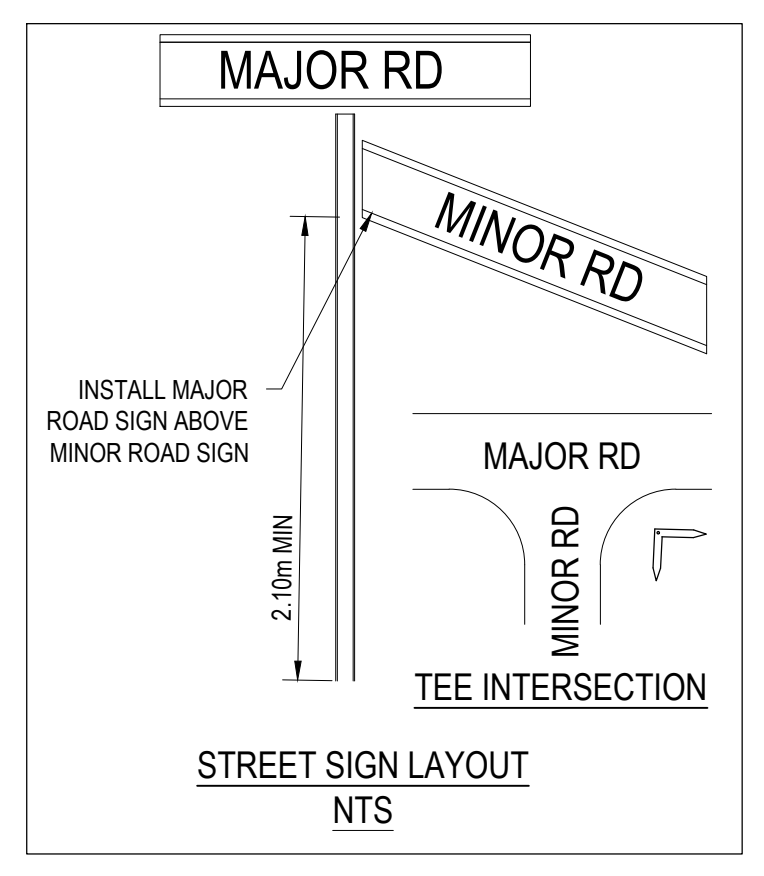


REFER LEFT FOR CONTINUATION

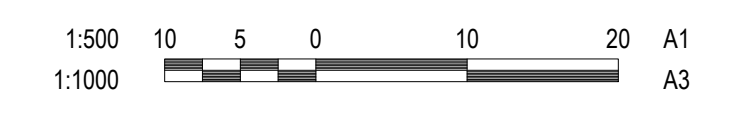


SIGN SCHEDULE		
SIGN	REF	QUANTITY
	1	REFER TABLE
STREET SIGN (G5 SERIES)		
 W5-10A	2	3No.
 W8-2A	3	3No.

STREET SIGN SCHEDULE	
MANNA GUM DR	1 No.
OASIS DR	1 No.



LINEMARKING & SIGNAGE NOTES:
1. 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPMS AT MAX 6m SPACING.
2. RRPMS TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOL 2.
3. ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.
4. ALL SIGNS AND LINEMARKING TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOLUME 2 - SIGNS & MARKINGS.
5. ALL SIGN POSTS TO BE SLEEVED IN ACCORDANCE WITH COGG SD CGG710 - SIGN POSTS.
6. ALL LINEMARKING TO BE THERMOPLASTIC PERMANENT PAINT.
7. ALL STREET HYDRANTS TO BE IDENTIFIED IN ACCORDANCE WITH C.F.A. DOCUMENT - IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES, PUBLISHED JULY 2019 INCLUDING INSTALLATION OF BLUE RAISED REFLECTIVE PAVEMENT MARKERS & PAINTED WHITE REFLECTIVE TRIANGLES.



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	25/08/21	CONSTRUCTION ISSUE	C.ROHDE	M.TROUNCE	T.PALIOS
C	24/08/21	AMENDED TO COUNCIL COMMENTS (20/08/21)	C.ROHDE	M.TROUNCE	T.PALIOS
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A	29/07/2021	ISSUED FOR APPROVAL	B.LEECH	M.TROUNCE	T.PALIOS

villawood
properties
Communities Designed for Living

creo
CONSULTANTS
Suite 1, 2 Bloomsbury Street
Geelong, VIC, Australia 3220

ARMSTRONG
MT DUNEED

DRAWING TITLE
**ARMSTRONG - STAGE 33
SIGNAGE & LINEMARKING PLAN**

STATUS
**ISSUED FOR
CONSTRUCTION**

SCALE AT A1	DRAWN	DESIGNED
1:500 @ A1	B.LEECH	C.ROHDE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JULY 2021
PROJECT No.	DRAWING No.	REVISION
L013901	R800	0