HAYFIELD STAGE 6 352 RIPLEY ROAD FOR 'RIPLEY PROJECTS PTY LTD'

DRAWING LIST

20-0204-100 COVER PLAN

EARTHWORKS, ROADWORKS AND DRAINAGE

20-0204-101 GENERAL NOTES

20-0204-102 BULK EARTHWORKS LAYOUT PLAN SHEET 1 OF 2 20-0204-103 BULK EARTHWORKS LAYOUT PLAN SHEET 2 OF 2

20-0204-104 BULK EARTHWORKS TYPICAL SECTIONS

20-0204-105 ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 1 OF 2
20-0204-106 ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 2 OF 2
20-0204-107 SURVEY SETOUT AND KERB TYPE LAYOUT PLAN SHEET 1 OF 2
20-0204-108 SURVEY SETOUT AND KERB TYPE LAYOUT PLAN SHEET 2 OF 2

20-0204-109 TRIGONA DRIVE LONGITUDINAL SECTION

 20-0204-110
 TRIGONA DRIVE CROSS SECTIONS

 20-0204-111
 ROAD 2 LONGITUDINAL SECTION

 20-0204-112
 ROAD 2 CROSS SECTIONS

20-0204-113 ROAD 3 LONGITUDINAL SECTION ROAD 3 CROSS SECTIONS

20-0204-115 ROAD 4 LONGITUDINAL SECTION AND CROSS SECTIONS

20-0204-116 ROAD 12 LONGITUDINAL SECTION AND CROSS SECTION 20-0204-117 INTERSECTION DETAILS LAYOUT PLAN SHEET 1 OF 2

20-0204-117 INTERSECTION DETAILS LAYOUT PLAN SHEET 2 OF 2

20-0204-119 KERB RETURN LONGITUDINAL SECTIONS

20-0204-120 SIGNS AND LINEMARKING LAYOUT PLAN SHEET 1 OF 2

20-0204-121 SIGNS AND LINEMARKING LAYOUT PLAN SHEET 2 OF 2 20-0204-122 STORMWATER DRAINAGE CATCHMENT LAYOUT PLAN

20-0204-122 STORMWATER DRAINAGE CATCHMENT LAYOUT PLAN
20-0204-123 STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 2

20-0204-124 STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 2 OF 2

20-0204-125 STORMWATER DRAINAGE STRUCTURE DETAILS SHEET 1 OF 2

20-0204-126 STORMWATER DRAINAGE STRUCTURE DETAILS SHEET 2 OF 2

20-0204-127 STORMWATER DRAINAGE CALCULATIONS TABLE SHEET 1 OF 2

-20-0204-128 STORMWATER DRAINAGE CALCULATIONS TABLE SHEET 2 OF 2

20-0204-900 CLEARING LAYOUT PLAN

STORMWATER QUALITY

20-0204-200 BIO RETENTION BASIN LAYOUT PLAN

20-0204-201 BIO RETENTION BASIN TYPICAL SECTIONS

20-0204-202 BIO RETENTION BASIN TYPICAL NOTES AND DETAILS

SEWERAGE AND WATER RETICULATION

20-0204-300 SEWERAGE COVER PLAN

20-0204-301 SEWERAGE LAYOUT PLAN SHEET 1 OF 3

20-0204-302 SEWERAGE LAYOUT PLAN SHEET 2 OF 3 20-0204-303 SEWERAGE LAYOUT PLAN SHEET 3 OF 3

20-0204-303 SEWERAGE LAYOUT PLAN SHEET 3 OF 3
20-0204-304 SEWERAGE LONGITUDINAL SECTIONS SHEET 1 OF 5

20-0204-305 SEWERAGE LONGITUDINAL SECTIONS SHEET 2 OF 5

20-0204-306 SEWERAGE LONGITUDINAL SECTIONS SHEET 3 OF 5

20-0204-307 SEWERAGE LONGITUDINAL SECTIONS SHEET 4 OF 5

20-0204-308 SEWERAGE LONGITUDINAL SECTIONS SHEET 5 OF 5

20-0204-309 SEWERAGE CATCHMENT LAYOUT PLAN

20-0204-310 WATER RETICULATION COVER PLAN

20-0204-311 WATER RETICULATION LAYOUT PLAN SHEET 1 OF 2
20-0204-312 WATER RETICULATION LAYOUT PLAN SHEET 2 OF 2
20-0204-313 FIRE HYDRANT REACH LAYOUT PLAN SHEET 1 OF 2

20-0204-313 FIRE HYDRANT REACH LAYOUT PLAN SHEET 1 OF 2 20-0204-314 FIRE HYDRANT REACH LAYOUT PLAN SHEET 2 OF 2

PROJECT INFORMATION SUMMARY:

No. OF LOTS = 46

AREA OF SITE = 6.086 ha

RP DESCRIPTION

PART OF LOT 901 ON SP317868

DATUM LEVEL AND LOCATION

RL 53.501 AHD

LOCAL AUTHORITY: IPSWICH CITY COUNCIL

COUNCIL REFERENCE NUMBER: 7231/2020/PDA

NOT

THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH:

- VEGETATION MANAGEMENT PLAN

- LANDSCAPE ARCHITECT'S PLANS

ELECTRICAL, COMMUNICATIONS AND GAS CONSULTANT'S PLANS

- SEDIMENT AND EROSION HAZARD ASSESSMENT

SAFETY IN DESIGN REPORT

LOCALITY PLAN SCALE 1:5000 (A1) SCALE 1:10000 (A3)

REV DAT	E DESIGN DRAV	N	REVISION DETAILS	DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
A 28.10	.22 KH KH	ISSUED FOR CONSTRUCTION		KH	ISSUE FOR CONSTRUCTION	PEAKURBAN	1:5000 100 50 0 100 200 A1	RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 6	COVER	PLAN	
				DESIGN	APPROVED DANIEL COLLINS RPEQ 18631	Achieve more.	1:10000 A3					
				DB				ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD	20-0204	100	A REVISION
					FOR AND ON BEHALF OF PEAKURBAN PTY LTD	ENQUIRIES@PEAKURBAN.COM.AU				20 0204	100	

GENERAL NOTES:

- THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, PLANT AND EQUIPMENT TO CONSTRUCT THE WORKS
 AS DOCUMENTED AND STRICTLY IN ACCORDANCE WITH THE RELEVANT AUTHORITY STANDARDS,
 SPECIFICATIONS AND REQUIREMENTS
- 2. THE EXISTING SERVICES THAT ARE SHOWN ON THE DRAWINGS ARE PROVIDED FOR INFORMATION PURPOSES ONLY. NO RESPONSIBILITY IS TAKEN BY THE SUPERINTENDENT OR THE PRINCIPAL FOR INFORMATION THAT HAS BEEN SUPPLIED BY OTHERS, OR ANY EXISTING SERVICES THAT MAY BE PRESENT NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY THE POSITION OF ANY UNDERGROUND SERVICES WITHIN THE AREAS OF WORKS AND SHALL BE RESPONSIBLE FOR MAKING GOOD ANY DAMAGE THERETO. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT ONLY BY THE SERVICE OWNER AUTHORITY UNLESS APPROVED OTHERWISE.
- ALL CONSTRUCTION ACTIVITIES UNDERTAKEN SHALL COMPLY WITH CURRENT WORKPLACE HEALTH AND SAFETY REQUIREMENTS AND LEGISLATION.
- PRIOR TO COMMENCING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL RELEVANT LOCAL AUTHORITY PERMITS.
- 5. THE CONTRACTOR SHALL NOT COMMENCE THE DEMOLITION OF ANY EXISTING BUILDINGS AND/OR STRUCTURES WITHOUT APPROVAL FROM THE SUPERINTENDENT
- 6. THE CONTRACTOR SHALL APPLY INDUSTRY BEST PRACTICE SO WORKS SHALL NOT DISTURB OR AFFECT NEARBY RESIDENTS EITHER BY DUST, NOISE, FLOODING OR DISCONNECTION OF SERVICES. CONTRACTOR TO ENSURE THAT ACCESS AND SERVICES TO EXISTING PROPERTIES ARE AVAILABLE AT ALL TIMES.
- 7. THE CONTRACTOR SHALL VERIFY LEVELS OF EXISTING SERVICE CROSSINGS AND CONNECTION POINTS PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY SUPERINTENDENT OF ANY DISCREPANCIES BETWEEN ACTUAL AND PROPOSED DESIGN LEVELS
- 8. THESE ENGINEERING DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE APPROVED VEGETATION MANAGEMENT PLAN, WHERE APPLICABLE. WHEN IN DOUBT, ALL EXISTING TREES ARE TO REMAIN UNLESS DIRECTED OTHERWISE
- HOLD POINT: ONCE THE BASE OF MANHOLES, INSPECTION PITS, GULLIES AND FIELD INLETS FOR STORMWATER DRAINAGE AND SEWER RETICULATION HAVE BEEN POURED, CONSTRUCTION SHALL ONLY RE-COMMENCE ONCE THE SUPERINTENDENT AND/OR ENGINEER HAVE INSPECTED THE WORKS.
- 10. THE CONTRACTOR SHALL NOTE DURING THE COURSE OF THE WORKS WHEN JOINT INSPECTIONS WITH THE AUTHORITY AND THE SUPERINTENDENT ARE REQUIRED. THESE INCLUDE PRE-STARTS, SUBGRADES, PRE-SEALS, CLEARING, AND OTHER SUCH INSPECTIONS AS NOMINATED IN THE APPROVAL AND THE SPECIFICATIONS. THE CONTRACTOR SHALL ENSURE NO WORKS PROCEED PAST THE INSPECTION POINT UNTIL THE JOINT INSPECTION HAS BEEN SUCCESSFULLY COMPLETED.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SAFE MOVEMENT OF TRAFFIC AND THE PROTECTION OF PERSON AND PROPERTY THROUGH AND AROUND THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC MANAGEMENT INCLUDING THE DESIGN, CONSTRUCTION, MAINTENANCE AND REMOVAL OF TEMPORARY ROADWAYS, DETOURS, SIGNS, LIGHTS AND BARRIER AS REQUIRED STRICTLY IN ACCORDANCE WITH THE RELEVANT AUTHORITY REQUIREMENTS.

BULK EARTHWORKS NOTES

- NOTWITHSTANDING THE EXTENTS OF CUTTING AND FILLING SHOWN ON DRAWINGS, THE SUPERINTENDENT RESERVES THE RIGHT TO ADJUST THE FINISHED SURFACE LEVELS AND EARTHWORKS EXTENTS THROUGH WRITTEN DIRECTION.
- THE CONTRACTOR SHALL UNDERTAKE ALL CLEARING USING INDUSTRY BEST PRACTICE INCLUDING CONSIDERATION OF FAUNA RELOCATION.
- THE CONTRACTOR SHALL UNDERTAKE ALL EARTHWORKS IN ACCORDANCE WITH AS3798-2007 AND LOCAL AUTHORITY REQUIREMENTS. LEVEL 1 SUPERVISION IS REQUIRED.
- 4. THE CONTRACTOR SHALL CONSIDER LOADS GENERATED BY THE EARTHWORKS OPERATIONS SO AS TO AVOID DAMAGE TO ALL PIPES, SERVICES AND STRUCTURES.
- THE EARTHWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT'S SEDIMENT AND EROSION CONTROL PLAN, WHERE APPLICABLE.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLANNING, DESIGN, CERTIFICATION, IMPLEMENTATION AND MAINTENANCE OF AN EROSION AND SEDIMENT CONTROL PLAN THAT IS COMPLIANT WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) GUIDELINE 'BEST PRACTICE EROSION AND SEDIMENT CONTROL' AND RELEVANT COUNCIL POLICIES.
- ALLOTMENT FINISHED SURFACE LEVELS, SHOWN ON THE LAYOUT PLAN, INDICATE THE FINISHED SURFACE LEVEL AFTER TOPSOIL PLACEMENT.

ROADWORKS AND DRAINAGE NOTES

- . ALL WORKS SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITY'S STANDARD DRAWINGS, METHODS AND SPECIFICATIONS.
- NOTWITHSTANDING THE EXTENTS OF CUTTING AND FILLING SHOWN ON DRAWINGS, THE SUPERINTENDENT
 RESERVES THE RIGHT TO ADJUST THE FINISHED SURFACE LEVELS AND EARTHWORKS EXTENTS THROUGH
 WRITTEN DIRECTION.
- NEW CONSTRUCTION SHALL BE NEATLY JOINED TO EXISTING FORMATION. WHERE REQUIRED, THE EXISTING FORMATION SHALL BE SAW CUT IN ACCORDANCE WITH IPWEAQ STD DRG RS-170. LEVELS AND GRADIENTS AT CONNECTIONS WITH EXISTING WORKS MAY BE VARIED AS REQUIRED TO ACHIEVE A SMOOTH CONNECTION.
- THE CONTRACTOR SHALL UNDERTAKE ALL EARTHWORKS IN ACCORDANCE WITH AS3798-2007 AND LOCAL AUTHORITY REQUIREMENTS. LEVEL 1 SUPERVISION IS REQUIRED.
- THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH THE SUBGRADE TEST RESULTS NECESSARY
 FOR ALL PAVEMENT DESIGN.
- THE CONTRACTOR SHALL ENSURE A MINIMUM OF 75mm TOPSOIL TO ALL VERGE AND BATTER AREAS (AND STABILISATION AS ORDERED)
- 7. THE CONTRACTOR SHALL INSTALL ALL FOOTPATH AND PRAM RAMPS IN COMPLIANCE WITH THE AUTHORITY'S STANDARD DRAWINGS. PRAM RAMPS ARE TO BE LOCATED CLEAR OF DRAINAGE GULLY PITS AND FUTURE DRIVEWAY POSITIONS INDICATED ON THE LAYOUT PLANS.
- THE CONTRACTOR SHALL INSTALL SUBSOIL DRAINS UNDER ALL KERBS AS REQUIRED BY THE LOCAL AUTHORITY'S STANDARDS.
- 9. THE CONTRACTOR SHALL ENSURE THAT ALL RETAINING WALL SUBSOIL DRAINS ARE TO CONNECT TO EITHER KERB ADAPTORS OR STORMWATER DRAINAGE STRUCTURES. CONTRACTOR TO DEMONSTRATE TO SUPERINTENDENT THAT SUITABLE CONNECTIONS HAVE BEEN PROVIDED FOR ALL WALLS.
- ALL STORMWATER DRAINAGE MATERIALS, BEDDING, JOINTING AND STEP IRON REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITIES STANDARD DRAWINGS. METHODS AND SPECIFICATIONS.
- 11. THE STORMWATER PIPE CLASSES HAVE BEEN DESIGNED FOR SERVICE LOADS ONLY. THE CONTRACTOR SHALL ASSESS THE SUITABILITY OF MACHINERY USED ON SITE AND THE ANTICIPATED CONSTRUCTION LOADS, AND UPGRADE THE PIPE CLASSES IF NECESSARY IN ACCORDANCE WITH AS3725-2007.
- 12. THE TERM D_{50} DOCUMENTED ON THE DRAWINGS, IN RELATION TO ROCK ARMORING, CORRESPONDS TO THE REQUIRED MEDIAN DIAMETER OF THE PLACED ROCKS. THE ROCKS USED SHALL NOT VARY IN SIZE BY +/- 30% OF THE PROPOSED D_{50} SIZE.

ROOFWATER NOTES

- THE GEOMETRIC CENTRE SHALL BE TAKEN AS THE SETOUT POINT FOR ALL STRUCTURES, UNLESS DETAILED
 OTHERWISE
- ROOFWATER ALIGNMENT, COVER, MATERIALS, BEDDING, JOINTING AND STEP IRON REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITY'S STANDARD DRAWINGS, METHODS AND SPECIFICATIONS.
- 3. ALL PVC PIPES ARE TO BE MINIMUM CLASS SN8.
- 4. END CAPS SHALL BE INSTALLED ON ENDS OF ALL PIPES AND STUBS.
- WHERE ROOFWATER PIPES ARE ALIGNED BEHIND PROPOSED RETAINING WALLS, THE CONTRACTOR IS TO REFER TO THE SPECIFIC PROJECT DESIGN DETAILS AND CONFIRM CLEARANCES WITH THE SUPERINTENDENT PRIOR TO LAYING OF THE PIPES.
- 6. PROPERTY CONNECTIONS SHALL BE 150Ø UNLESS SHOWN OTHERWISE. THE CONTRACTOR SHALL EXTEND CONNECTIONS A MINIMUM OF 1.0m BEYOND ADJACENT SEWER LINES, WHERE APPLICABLE.
- 7. IN INSTANCES WHERE REAR ALLOTMENT DRAINAGE IS NOT PROVIDED, THE CONTRACTOR SHALL INSTALL A ROOFWATER CONNECTION TO EACH PROPERTY BY ONE OF THE FOLLOWING METHODS, AS SHOWN ON THE LAYOUT PLAN:
- TWO ROOFWATER KERB ADAPTORS, ONE ON A 500mm FROM THE DOWNSTREAM BOUNDARY, THE SECOND ON A 6.0m OFFSET FROM THE DOWNSTREAM BOUNDARY. WHERE THERE IS A CONCRETE FOOTPATH, A ROOFWATER PIPE SHALL BE INSTALLED FROM THE PROPERTY BOUNDARY CONNECTED TO THE KERB ADAPTOR AT 1.25% MINIMUM GRADE IN ACCORDANCE WITH COUNCIL'S STANDARDS.
- ONE 150Ø ROOFWATER PIPE CONNECTED TO PROPOSED STORMWATER GULLY PIT OR MANHOLE AT MINIMUM 1.0%

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS
Α	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION]	ISSUE FOR
					KH	CONCEDUCATION
					1/11	CONSTRUCTION
-+		-				
-						APPROVED DDFO 40034
_					i	DANIEL COLLINS RPEQ 18631
					DB	
					ששו	
T	,	I		·	I	FOR AND ON BEHALF OF PEAKURBAN PTY LTD



RIPLEY PROJECTS PTY LTD

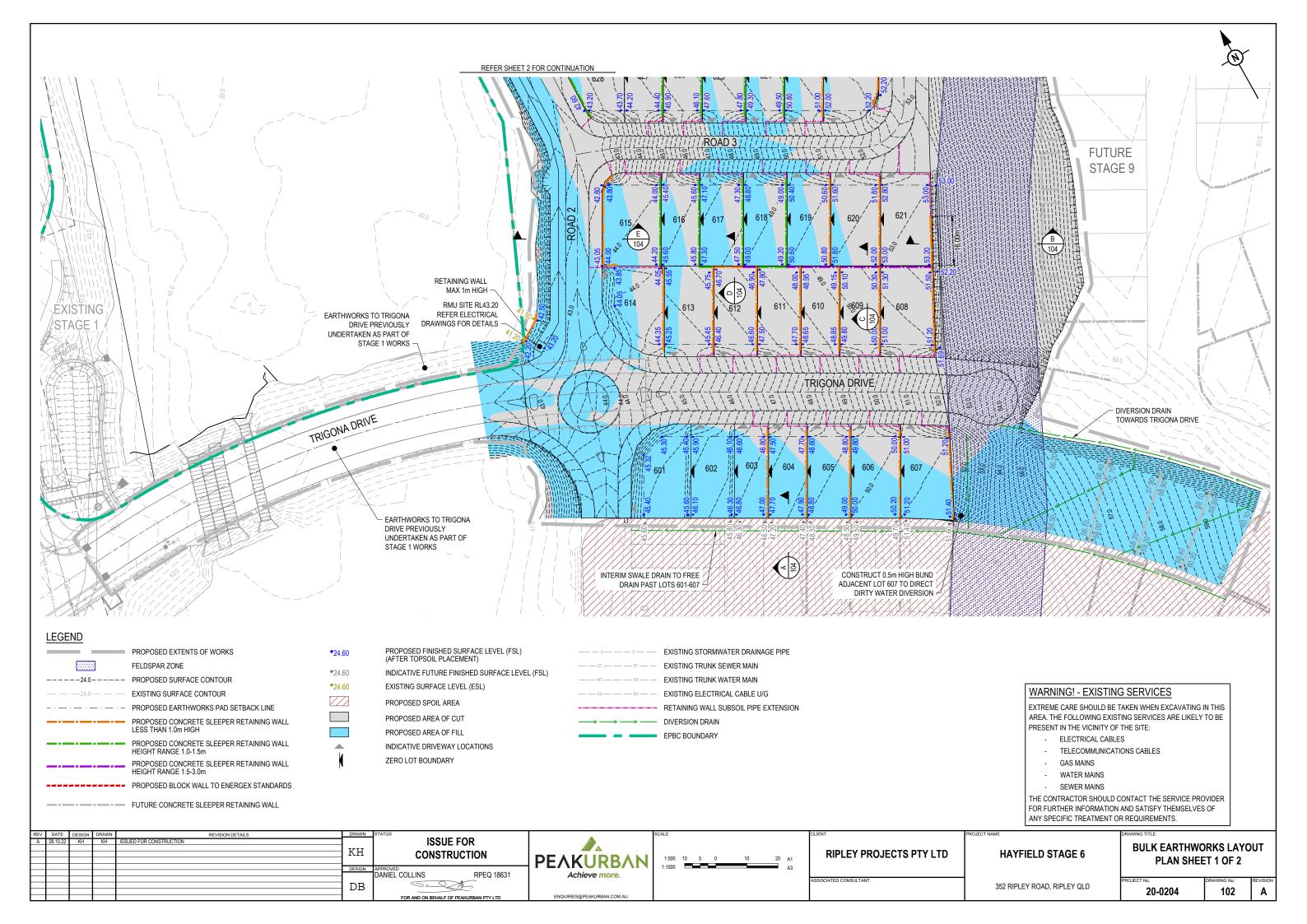
HAYFIELD STAGE 6

GENERAL NOTES

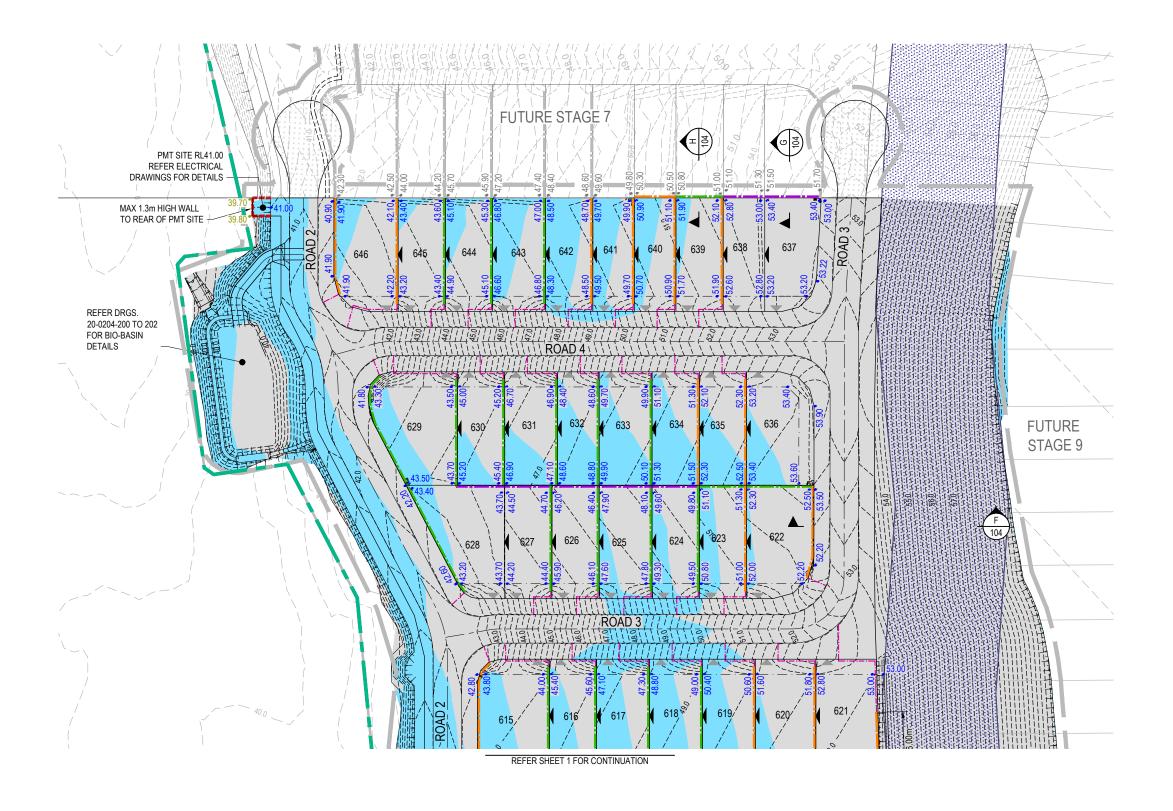
101

352 RIPLEY ROAD, RIPLEY QLD

20-0204



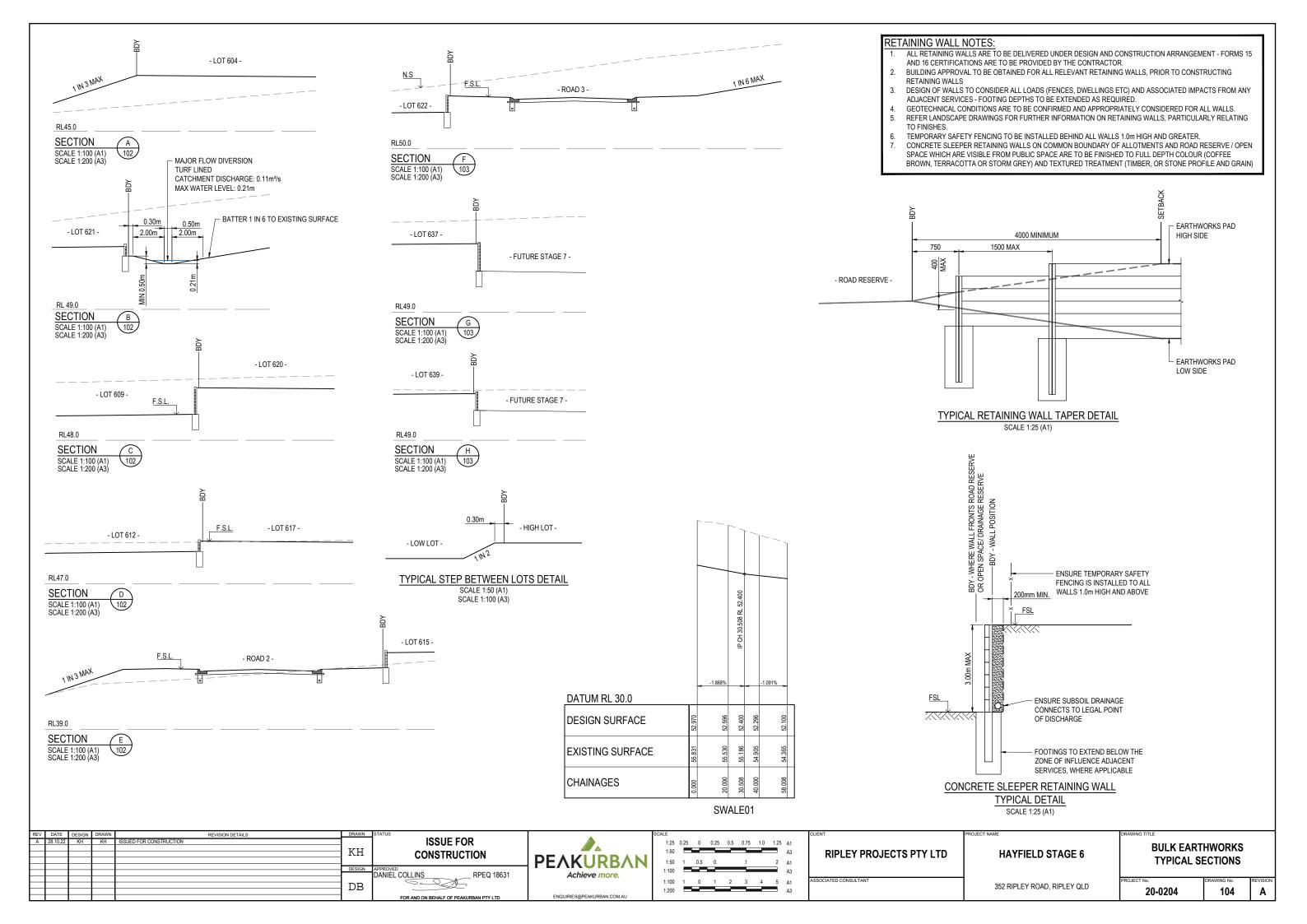


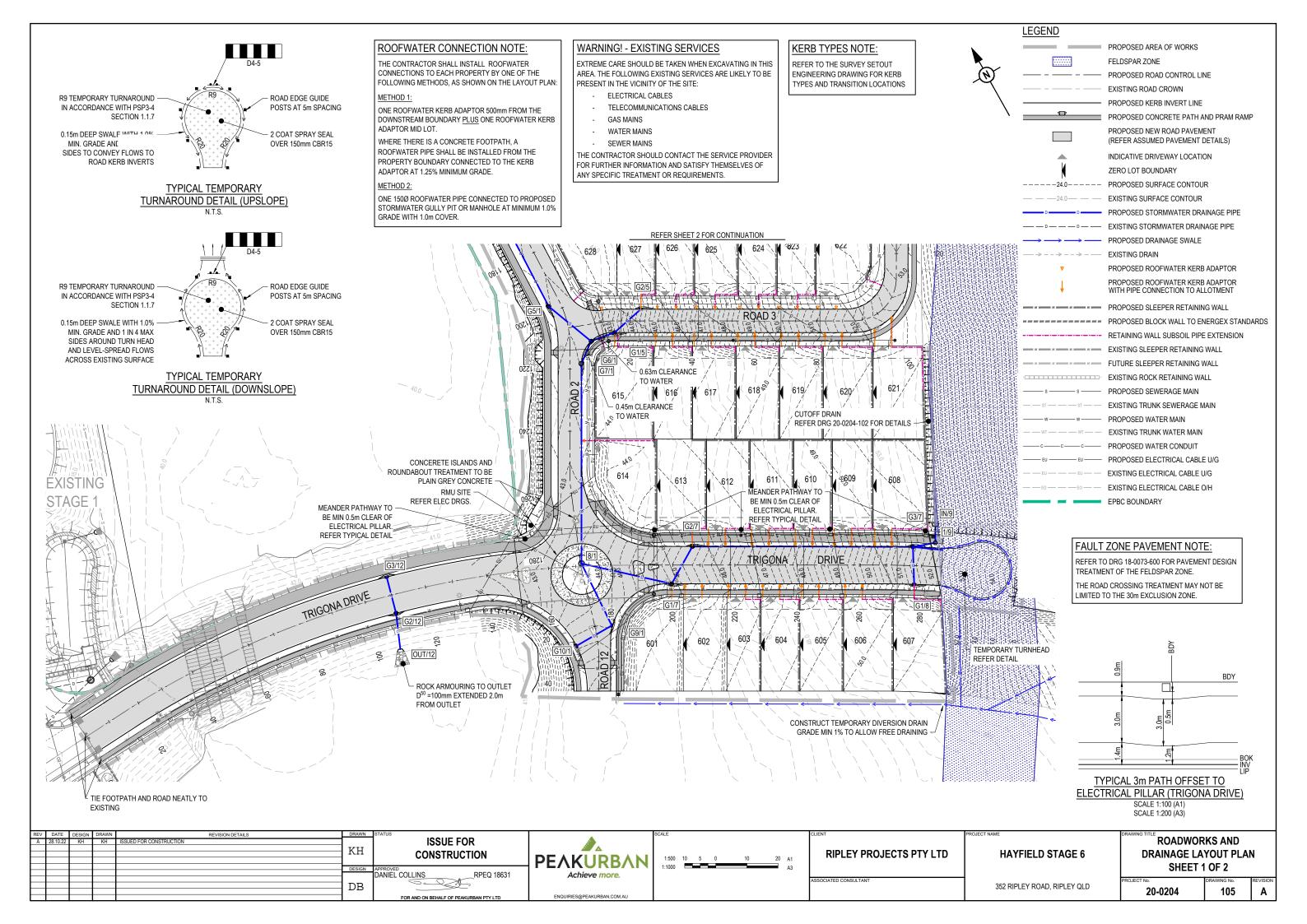


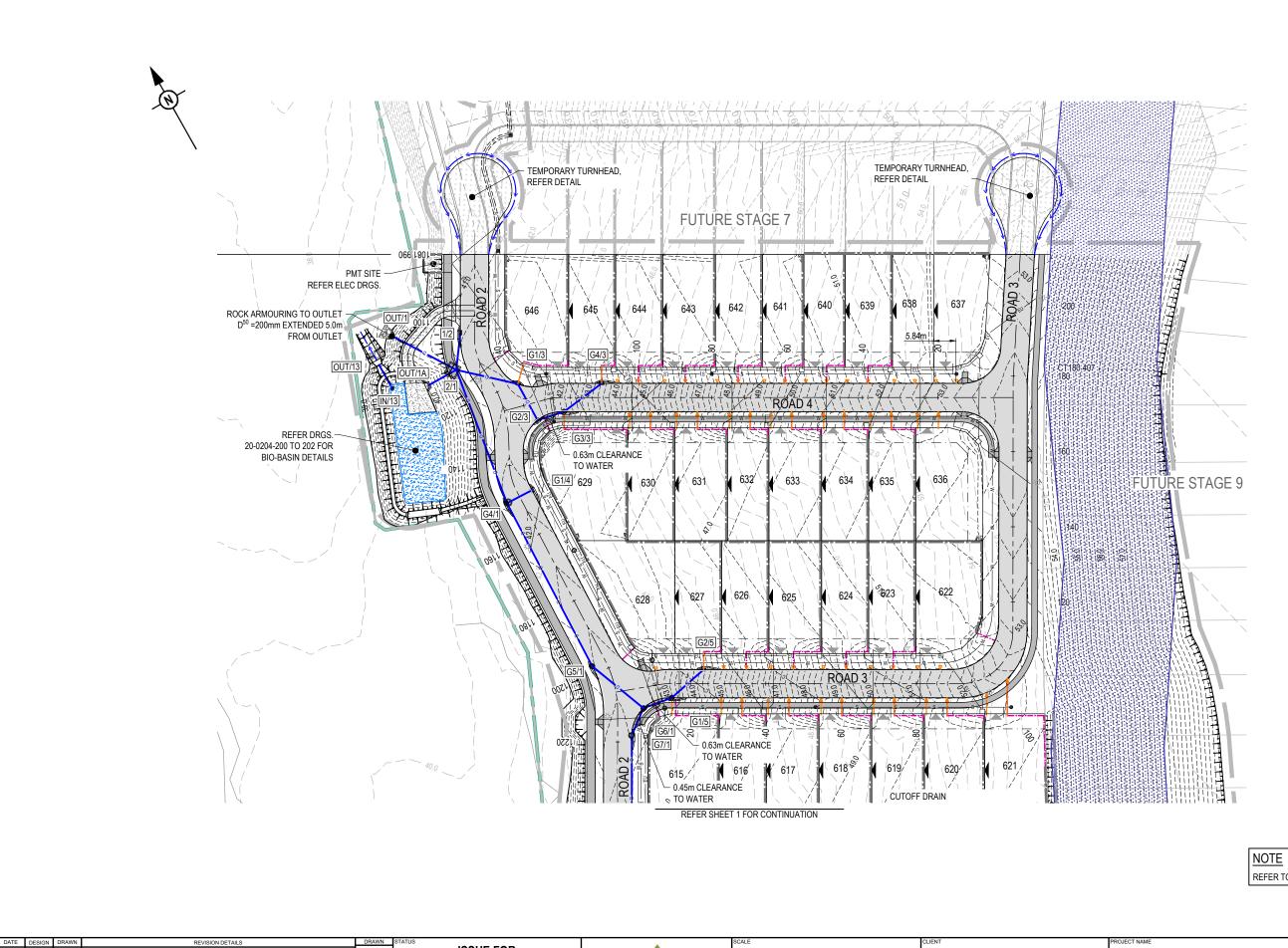
NOTE

REFER TO SHEET 1 FOR NOTES AND LEGEND.

RE	/ DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	<u> </u>	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION	KH	ISSUE FOR CONSTRUCTION	PEAKURBAN	1:500 10 5 0 10 20 A1	RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 6	BULK EARTHWORKS LAYOUT PLAN SHEET 2 OF 2		UT
<u> </u>					DESIGN	APPROVED		1:1000 A3					
					DB	DANIEL COLLINS RPEQ 18631	Achieve more.		ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD	PROJECT No.		REVISION
		1				FOR AND ON BEHALF OF PEAKURBAN PTY LTD	ENQUIRIES@PEAKURBAN.COM.AU				20-0204	103	A
_						•	•						

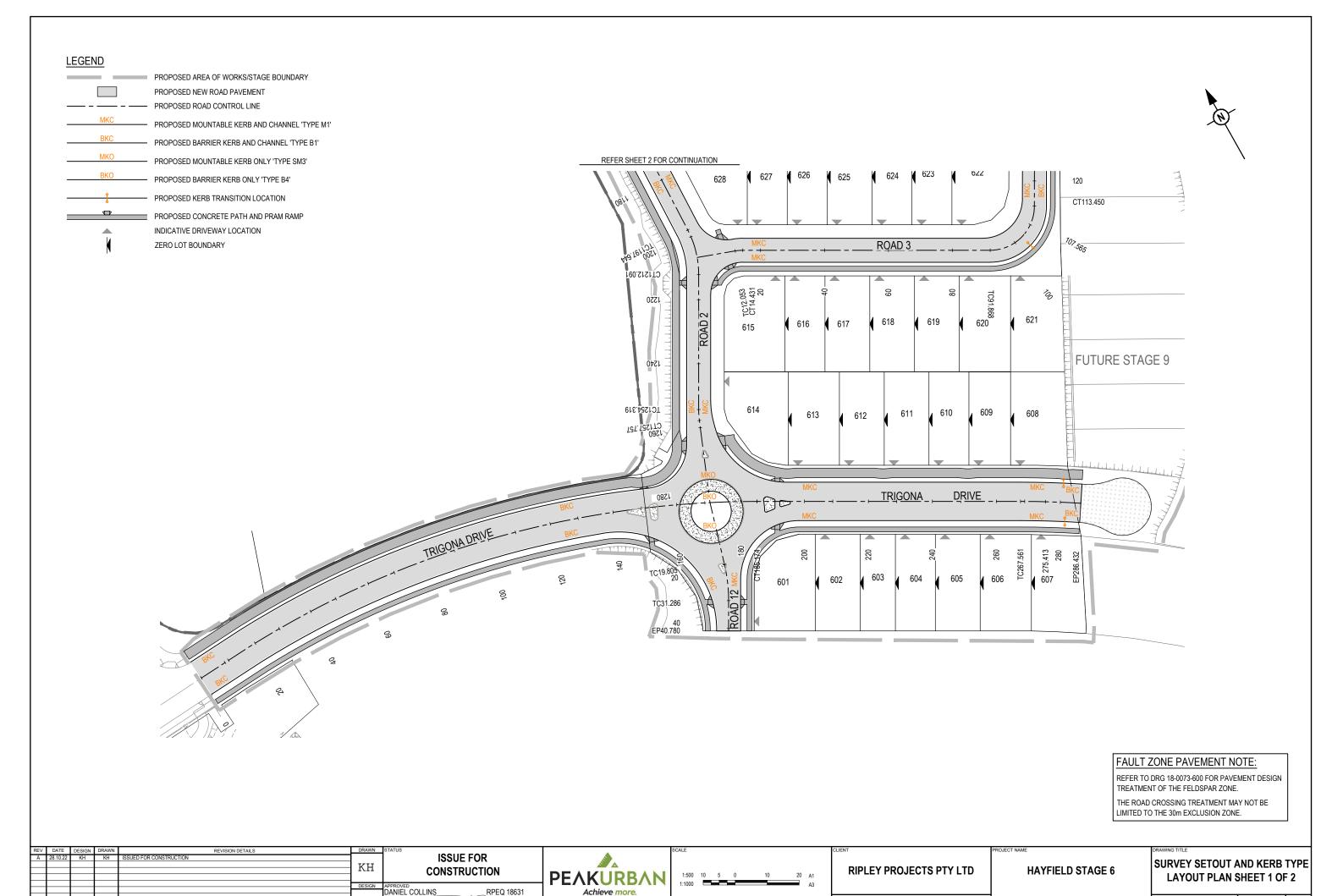






REFER TO SHEET 1 FOR NOTES AND LEGEND.

A 28.	.10.22	KH	KH	REVISION DETAILS ISSUED FOR CONSTRUCTION	DRAWN	ISSUE FOR		SCALE	CLIENT	PROJECT NAME	ROADWO	RKS AND	
					KH	CONSTRUCTION	DEAKIIDRAN	1:500 10 5 0 10 20 A1	RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 6	DRAINAGE L	AYOUT PLA	N
	_				DESIGN	APPROVED	PENKURDAN	1:1000 A3			SHEET	2 OF 2	
	#				DB	DANIEL COLLINS RPEQ 18631	Achieve more.		ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD	PROJECT No.	DRAWING No.	REVISION
	_				ם ע	FOR AND ON BEHALF OF PEAKURBAN PTY LTD	ENQUIRIES@PEAKURBAN.COM.AU			352 RIPLET ROAD, RIPLET QLD	20-0204	106	A



352 RIPLEY ROAD, RIPLEY QLD

107

20-0204

DB

TRIGONA DRIVE CONTROL LINE SETOUT

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	478575.779	6940497.731	86°08'40.34"			
IP 2	18.846	478594.582	6940498.998				
IP 3	73.854	478650.169	6940501.627		R = 296.245	110.016	21°16'40.10"
IP 4	128.862	478702.920	6940483.905				
IP 5	157.018	478729.710	6940474.975		R = 300.000	56.312	10°45'17.62"
CT	185.174	478754.363	6940461.203	119°11'23.88"			
TC	267.561	478826.287	6940421.022	119°11'23.88"			
IP 6	359.653	478909.128	6940374.743		R = 310.500	184.185	33°59'14.07"
CC	451.746	478951.947	6940290.061	153°10'37.95"			
IP 7	473.963	478961.989	6940270.201		R = 310.500	44.434	8°11'57.70"

ROA	ח 2	CON	JTR	\cap	INF	SET	
NUA	ν	COL	חוו	UL L		o⊏ i	\cup

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 18	1074.049	478803.022	6940663.645		R = 30.000	8.013	15°18'15.52"
CT	1078.056	478801.056	6940660.126	209°11'23.62"			
TC	1104.155	478788.327	6940637.341	209°11'23.62"			
IP 19	1109.186	478785.790	6940632.798		R = -16.000	10.061	36°01'43.17"
CT	1114.217	478786.409	6940627.632	173°09'40.46"			
TC	1114.221	478786.410	6940627.628	173°09'40.46"			
IP 20	1123.644	478787.567	6940617.982		R = 31.500	18.847	34°16'54.12"
CT	1133.068	478783.089	6940609.360	207°26'34.57"			
TC	1139.442	478780.152	6940603.704	207°26'34.57"			
IP 21	1143.276	478778.354	6940600.242		R = -17.000	7.669	25°50'44.20"
CT	1147.110	478778.246	6940596.343	181°35'50.38"			
TC	1197.644	478776.837	6940545.829	181°35'50.38"			
IP 22	1204.867	478776.632	6940538.465		R = 30.000	14.447	27°35'33.28"
CT	1212.091	478773.039	6940532.034	209°11'23.65"			
TC	1254.319	478752.444	6940495.169	209°11'23.65"			
IP 23	1256.038	478751.605	6940493.666		R = -26.700	3.438	7°22'43.17"
CT	1257.757	478750.965	6940492.068	201°48'40.48"			
IP 24	1283.620	478741.356	6940468.057	201°48'40.48"			

ROAD 3 CONTROL LINE SETOUT

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	478775.217	6940536.907	109°27'31.85"			
TC	12.053	478786.582	6940532.892	109°27'31.85"			
IP 2	13.242	478787.706	6940532.495		R = 14.000	2.378	9°43'52.04"
CT	14.431	478788.746	6940531.914	119°11'23.88"			
TC	88.622	478853.516	6940495.730	119°11'23.88"			
IP 3	101.964	478868.339	6940487.449		R = -17.000	26.683	89°55'50.83"
CT	115.305	478876.638	6940502.262	29°15'33.05"			
TC	181.498	478908.991	6940560.010	29°15'33.05"			
IP 4	183.706	478910.071	6940561.938		R = 50.000	4.416	5°03'39.14"
CT	185.915	478911.316	6940563.763	34°19'12.20"			
TC	308.302	478980.320	6940664.843	34°19'12.20"			
IP 5	322.415	478990.804	6940680.200		R = -17.000	28.226	95°07'48.32"

ROAD 4 CONTROL LINE SETOUT

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	478905.485	6940553.753	299°11'23.88"			
TC	120.266	478800.492	6940612.408	299°11'23.88"			
IP 2	122.138	478798.847	6940613.326		R = -14.000	3.745	15°19'34.20"
CT	124.011	478797.019	6940613.778	283°51'49.68"			
IP 3	135 608	478785 759	6940616 556	283°51'49 68"			



NOTE

352 RIPLEY ROAD, RIPLEY QLD

REFER TO SHEET 1 FOR NOTES AND LEGEND.

20-0204

108

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS
Α	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION	1	ISSUE FOR
					KH	
					VП	l CONSTRUCTION
		ļ	ļ		1	
						APPROVED
-+			-			DANIEL COLLINS RPEQ 18631
-						5-276
-+					DB	
						FOR AND ON BEHALF OF PEAKURBAN PTY LTD

PEAKURBAN Achieve more.	1:500 1:1000	10	5	0	10	20 A1 A3

RIPLEY PROJECTS PTY LTD	
ASSOCIATED CONSULTANT	

ME	DRAWING TITLE		
HAYFIELD STAGE 6	SURVEY SETOUT / LAYOUT PLAN S		
	DRO IECT No.	DRAWING No.	DEVICION

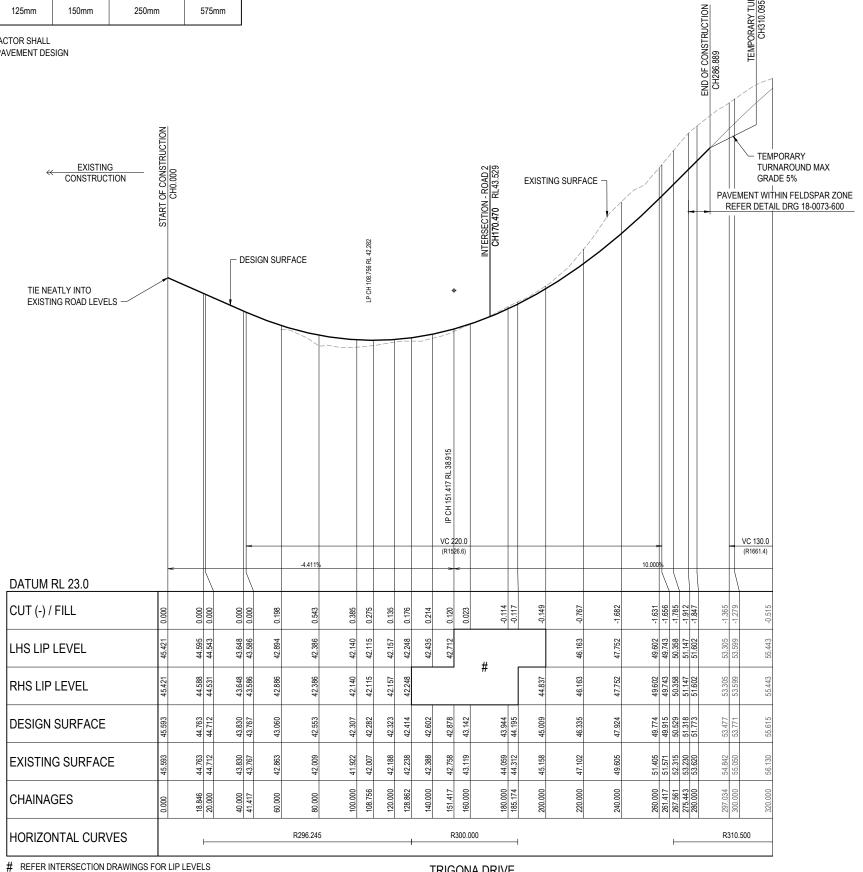
ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
TRIGONA DRIVE	MAJOR COLLECTOR	1.0 x 10 ⁶	3	50mm	125mm	150mm	250mm	575mm

NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN

FAULT ZONE PAVEMENT NOTE:

REFER TO DRG 18-0073-600 FOR PAVEMENT DESIGN TREATMENT OF THE FELDSPAR ZONE.

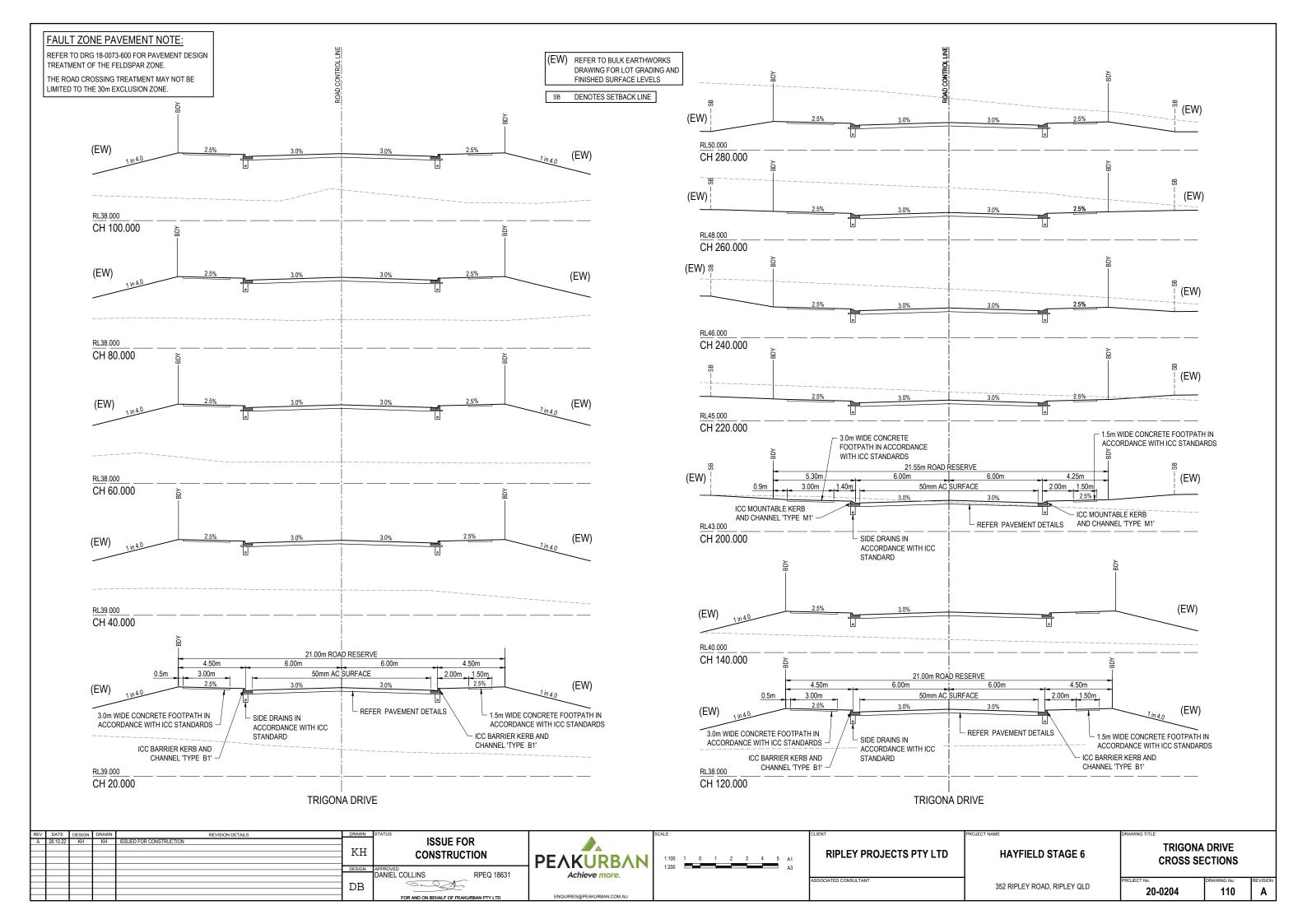
THE ROAD CROSSING TREATMENT MAY NOT BE LIMITED TO THE 30m EXCLUSION ZONE.



FUTURE CONSTRUCTION

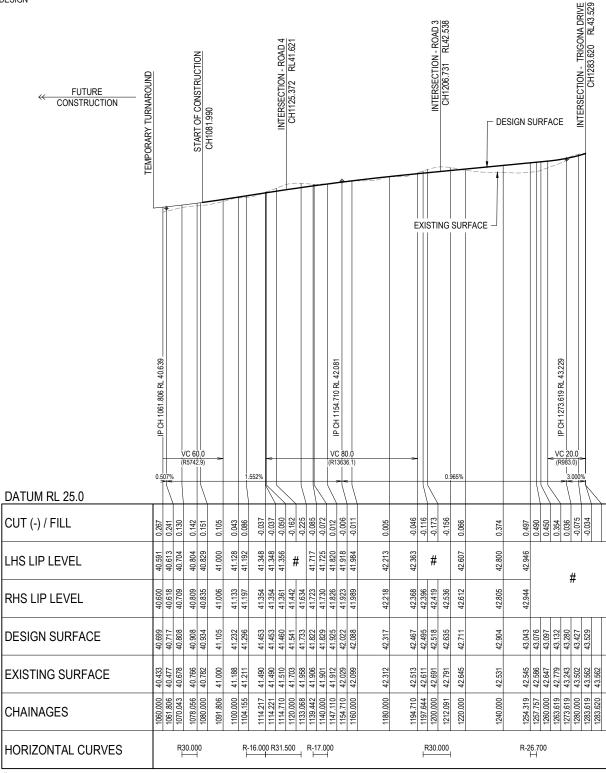
TRIGONA DRIVE

RE	/ DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
A	28.10.22	2 KH	KH	ISSUED FOR CONSTRUCTION	1								
					KH	ISSUE FOR CONSTRUCTION		1:1000 10 U 10 20 30 40 50 A1	DIDLEY DDG JEGTG DTV J TD	LIAVELE DATAGE A	TRIGONA DRIVE	LONGITUDI	INAL
					VП		DEAKLIDRAN	1:2000 A3	RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 6	0505	TION	
		_					PEAKURBAN	HURIZUNTAL			SECT	ION	
\vdash					DESIGN	APPROVED		1:100 2 1 0 2 4 A1					
\vdash		+	-		ł	DANIEL COLLINS RPEQ 18631	Achieve more.	1:200				1	
	_	+			DB	SIDAL		VERTICAL	ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD	PROJECT No.	1	REVISION
			_		םם ן					332 KIPLET KOAD, KIPLET QLD	20-0204	1 100	1 A I
					i	FOR AND ON BEHALF OF PEAKURBAN PTY LTD	ENQUIRIES@PEAKURBAN.COM.AU				20.0204	109	1 7 1



ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 2	COLLECTOR STREET	2.0 x 10 ⁵	3	35mm	125mm	150mm	160mm	470mm

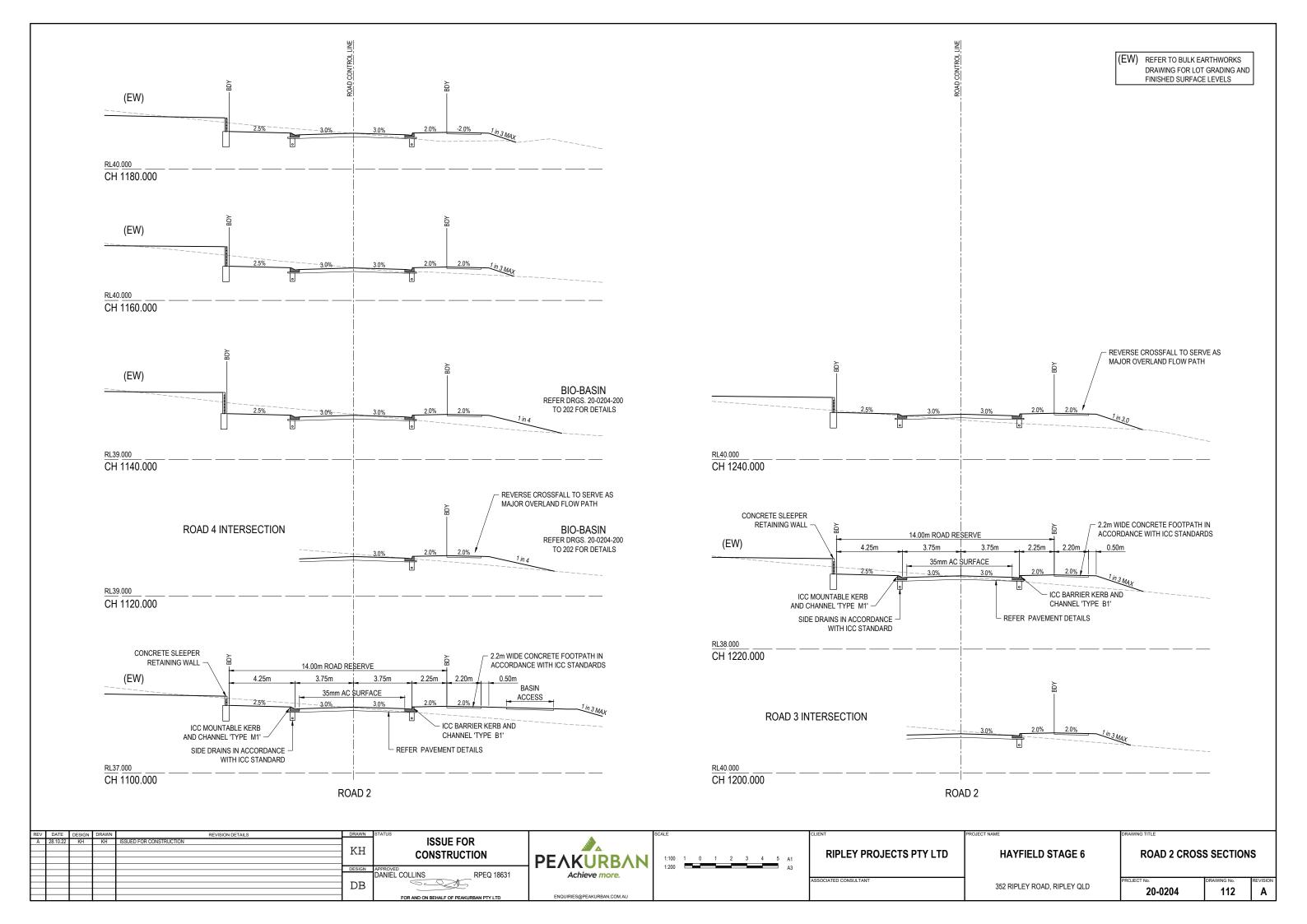
NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN



REFER INTERSECTION DRAWINGS FOR LIP LEVELS

ROAD 2

REV A 2	DATE 28.10.22	DESIGI KH	N DRAW	N REVISION DETAILS ISSUED FOR CONSTRUCTION	KH	ISSUE FOR CONSTRUCTION	PEAKURBAN	SCALE 1:100 1 0 1 2 3 4 5 A1 1:200	RIPLEY PROJECTS PTY LTD	PROJECT NAME HAYFIELD STAGE 6	ROAD 2 LONGITU	JDINAL SEC	TION
					DB	DANIEL COLLINS RPEQ 18631	Achieve more. ENQUIRIES@PEAKURBAN.COM.AU	1:100 1 0 1 2 3 4 5 A1 1:200 VERTICAL A3	ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD	PROJECT No. 20-0204	DRAWING No.	REVISION A



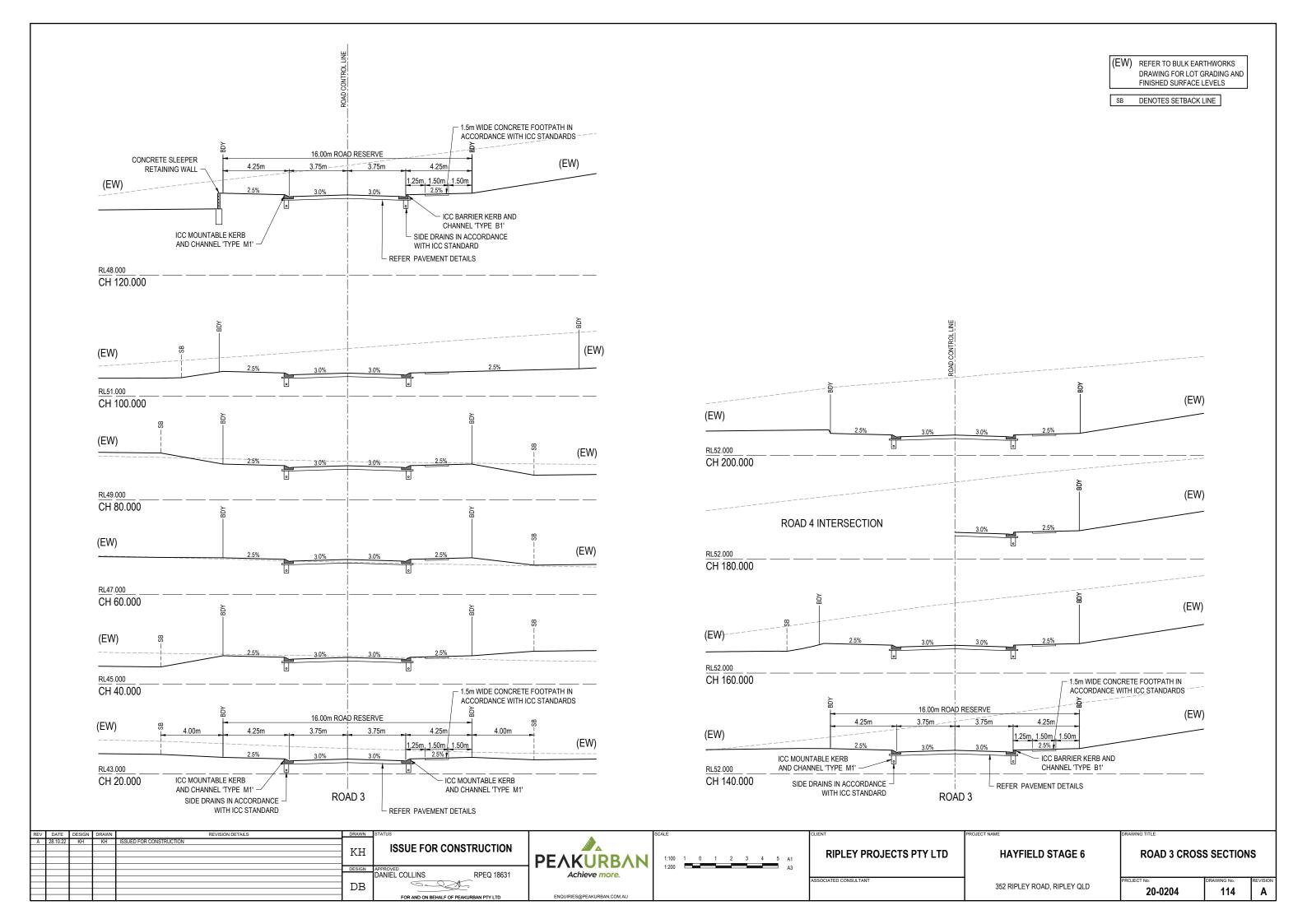
ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 3	ACCESS STREET	1.0 x 10 ⁵	3	35mm	125mm	100mm	170mm	430mm

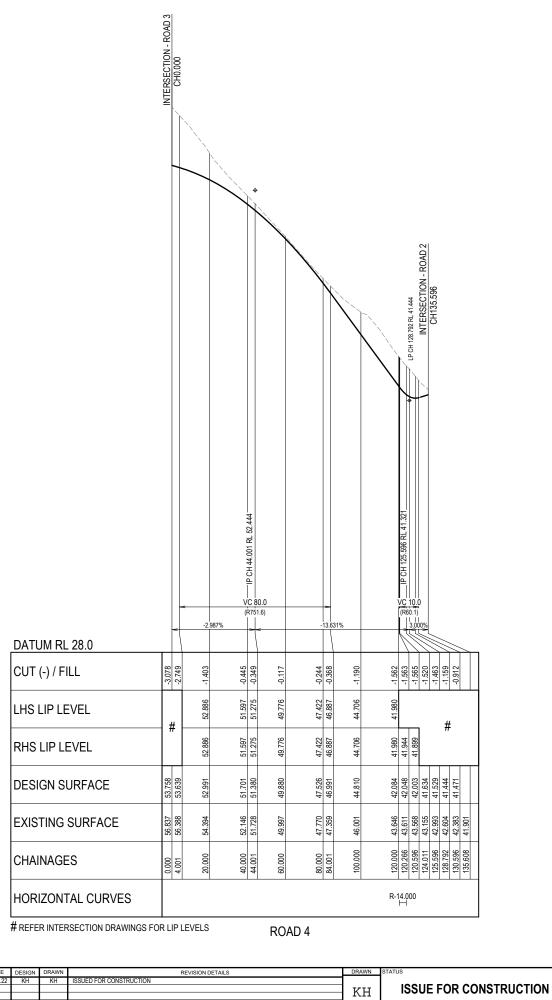
NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL FUTURE >>> SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN END OF CONSTRUCTION CH211.743 EXISTING SURFACE -DESIGN SURFACE INTERSECTION - ROAD 2 000 RL 42.463 CH0.00 LIP CH 82.213 RL 52.475 —IP CH 4.000 RL 42.463 —IP CH 9.000 RL 42.463 VC 75.0 (R632.9) VC 10.0 (R73.1) 1.824% DATUM RL 34.0 CUT (-) / FILL 42.838 43.043 43.102 43.863 46.598 47.243 50.702 53.426 53.495 52.529 52.476 51.880 51.821 51.565 LHS LIP LEVEL 53.431 RHS LIP LEVEL 50.820 DESIGN SURFACE 51.453 51.725 52.972 54.076 EXISTING SURFACE 218.788 220.000 233.537 234.886 240.000 179.031 180.000 181.288 181.798 200.000 260.000 CHAINAGES R14.000 R-13.750 R50.000 R50.000 HORIZONTAL CURVES

REFER INTERSECTION DRAWINGS FOR LIP LEVELS

ROAD 3

RE	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS		SCALE		CLIENT	PROJECT NAME	DRAWING TITLE		
A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION	1	l		1:100	1 0 1 2 3 4 5 A1					- 1
					KH	ISSUE FOR CONSTRUCTION		1:200	A3	DIDLEY DOG IEGES DEVI ED	1143/EIEL D 0740E 0	DOAD AL ONOITH	DIVIAL 050	
					кп.		DEAKLIDBAN		CROSS SECTIONS	RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 6	ROAD 3 LONGITU	DINAL SEC	HON I
	1	1	1				PEVKUKRVN	1:1000	10 0 10 20 30 40 50 A1					
-	1	+	_		DESIGN	APPROVED		1:2000	HORIZONTAL A3					
_	1	+	_		1	DANIEL COLLINS RPEQ 18631	Achieve more.	1:100	1 0 1 2 3 4 5 A1	ACCOUNTED CONCULTANT		PDQ ISOT II	DE LUMIO L	DE1 #01011
	1	+	_		DB	5_0>15		1.200	A3	ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD	11.1	DRAWING No.	REVISION
					ם שם			1.200	VERTICAL		332 KIFLLT KOAD, KIFLLT QLD	20-0204	113	
					<u> </u>	FOR AND ON BEHALF OF PEAKURBAN PTY LTD	ENQUIRIES@PEAKURBAN.COM.AU					1 20 3204		



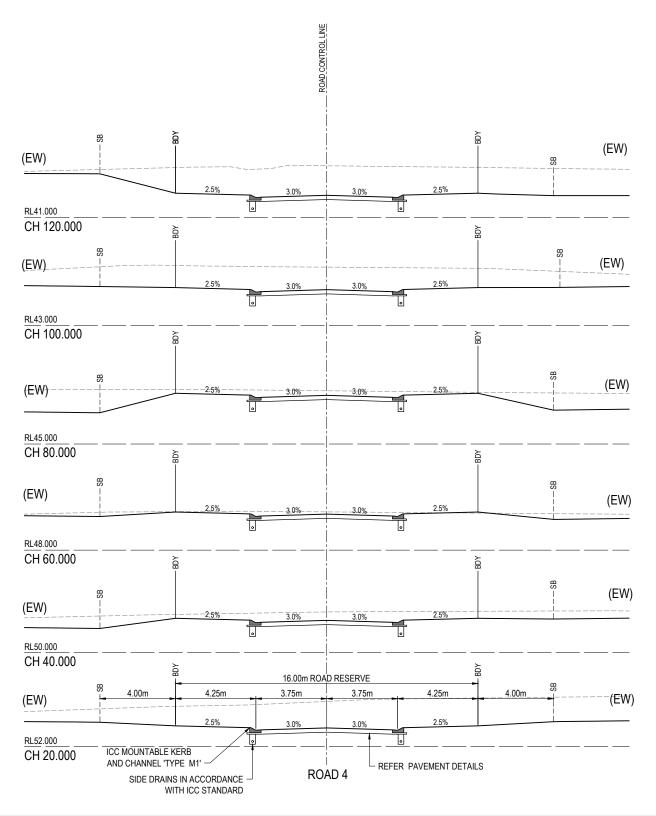


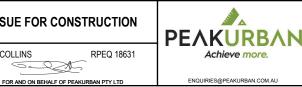
				`				
ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 4	ACCESS STREET	1.0 x 10 ⁵	3	35mm	175mm	100mm	170mm	430mm

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS

SB DENOTES SETBACK LINE

NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN

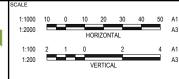




Achieve more.

ANIEL COLLINS

DB





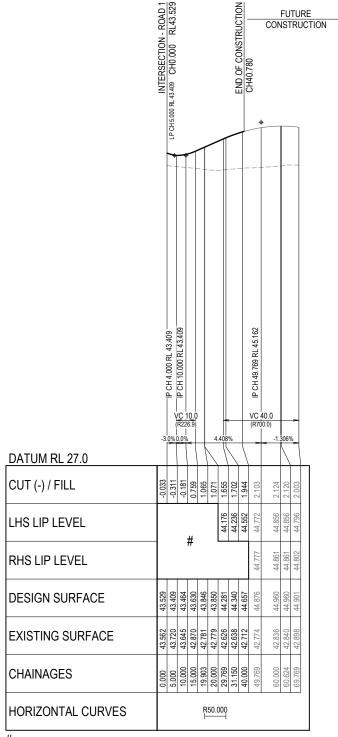
ROAD 4 LONGITUDINAL SECTION

115

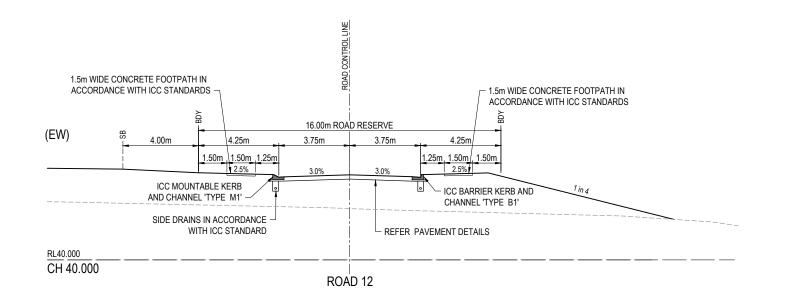
20-0204

ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 12	ACCESS STREET	1.0 x 10 ⁵	3	35mm	125mm	100mm	170mm	430mm

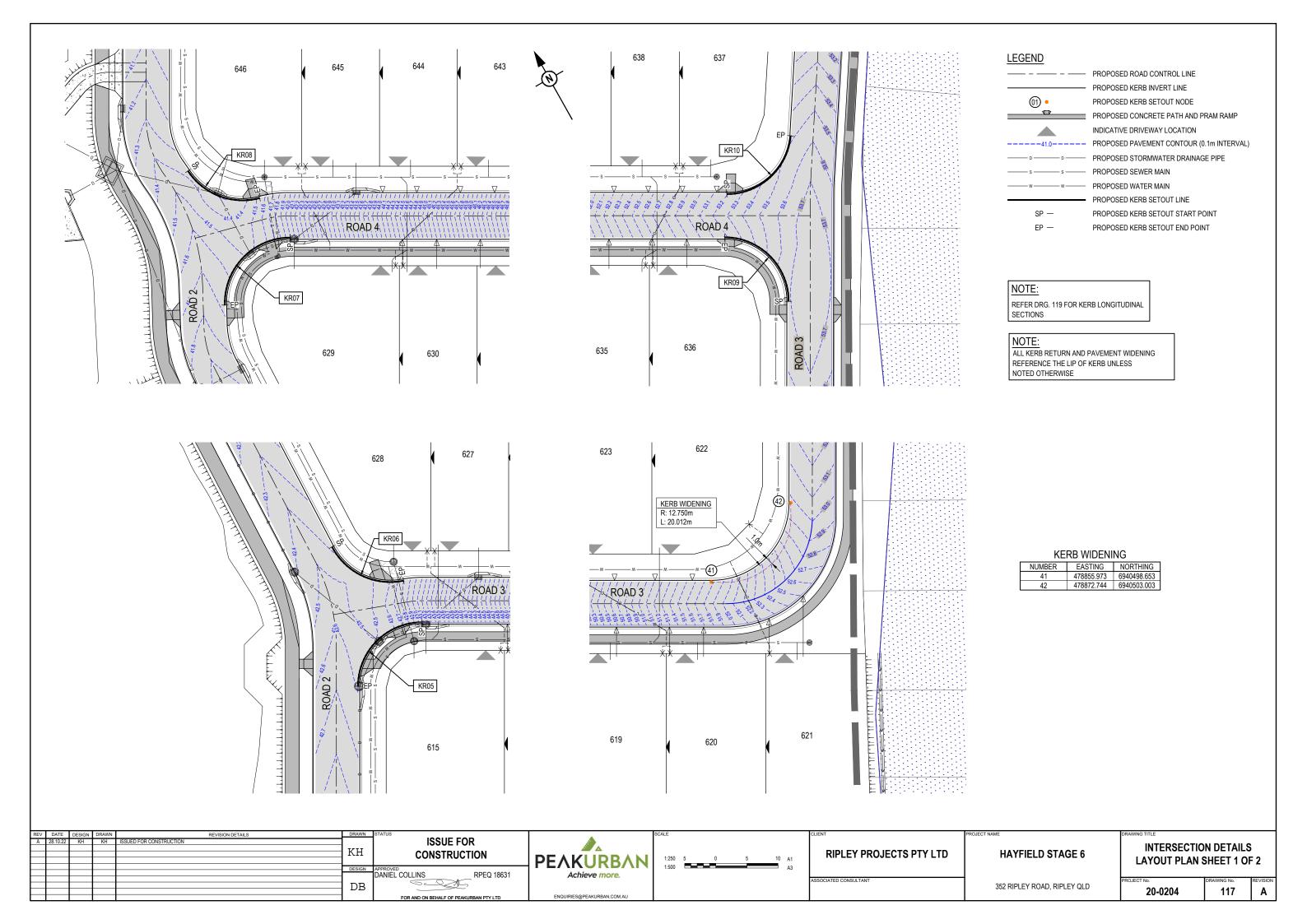
NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN

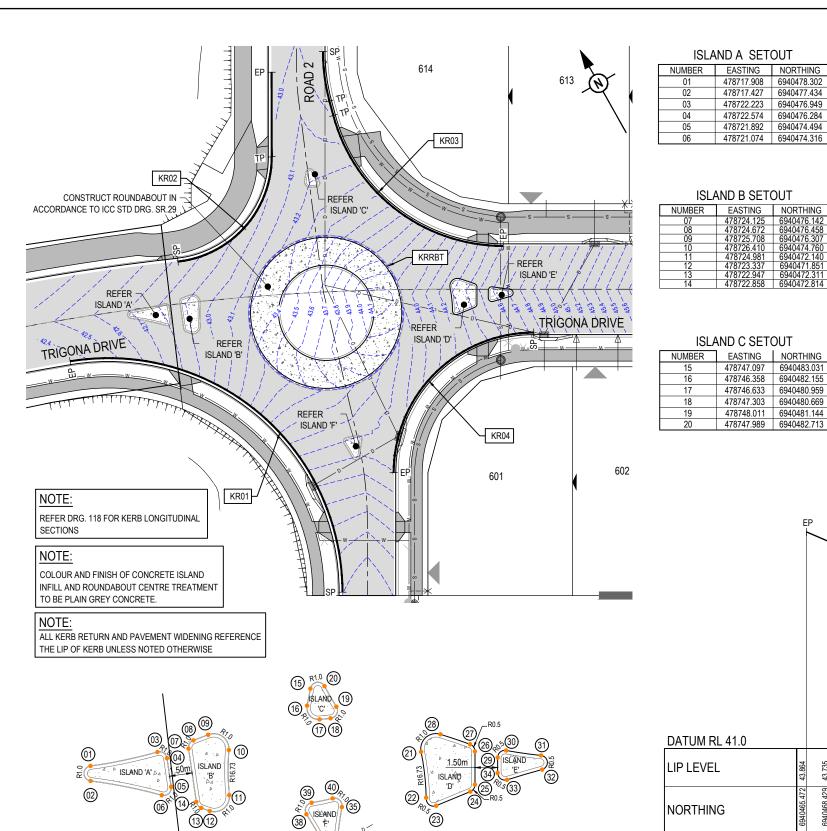


REFER INTERSECTION DRAWINGS FOR LIP LEVELS ROAD 12



REV	DATE	DESIGN DRAWN		REVISION DETAILS	DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		$\overline{}$
A	28.10.22	KH KH	ISSUED FOR CONSTRUCTION		KH	ISSUE FOR CONSTRUCTION	PEAKURBAN	1:100 1 0 1 2 3 4 5 A1	RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 6	ROAD 4 CROS	SS SECTION	ıs
					DESIGN	APPROVED DANIEL COLLINS RPEQ 18631	Achieve more.	1:200 A3					
					DB		Active to the control of the control		ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD	PROJECT No. 20-0204	DRAWING No.	REVISION
						FOR AND ON BEHALF OF PEAKURBAN PTY LTD	ENQUIRIES@PEAKURBAN.COM.AU				20-0204	1 110	





ISLAND DETAILS 1:125 (A1)

1:250 (A3)

ISLAND A SETOUT

NUMBER	EASTING	NORTHING
01	478717.908	6940478.302
02	478717.427	6940477.434
03	478722.223	6940476.949
04	478722.574	6940476.284
05	478721.892	6940474.494
06	478721.074	6940474.316

ISLAND B SETOUT

ISLAND C SETOUT

EASTING | NORTHING 478747.097 6940483.031 478746.358 6940482.155

478746.633 6940480.959 478747.303 6940480.669

478748.011 6940481.144

478747.989 6940482.713

ISLAND D SETOUT

NUMBER	EASTING	NORTHING
21	478756.260	6940460.412
22	478755.077	6940457.602
23	478755.392	6940456.816
24	478756.222	6940456.718
25	478756.693	6940456.958
26	478758.326	6940459.881
27	478758.249	6940460.471
28	478757.943	6940460.794

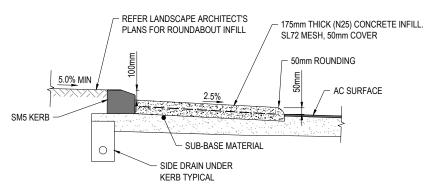
ISLAND E SETOUT

NUMBER	EASTING	NORTHING
29	478760.494	6940457.612
30	478761.209	6940457.748
31	478763.065	6940456.335
32	478762.675	6940455.487
33	478760.316	6940456.026
34	478759.998	6940456.722

NUMBER	EASTING	NORTHING
29	478760.494	6940457.612
30	478761.209	6940457.748
31	478763.065	6940456.335
32	478762.675	6940455.487
33	478760.316	6940456.026
34	478759.998	6940456.722

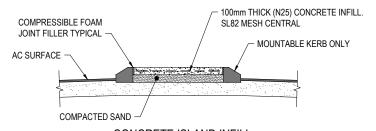
ISLAND F SETOUT

NUMBER	EASTING	NORTHING
35	478736.250	6940448.514
36	478734.937	6940446.763
37	478734.023	6940447.046
38	478733.971	6940449.244
39	478734.640	6940449.741
40	478735.994	6940449.316



CONCRETE ROUNDABOUT APRON TYPICAL SECTION

1:25 (A1) 1:50 (A3)



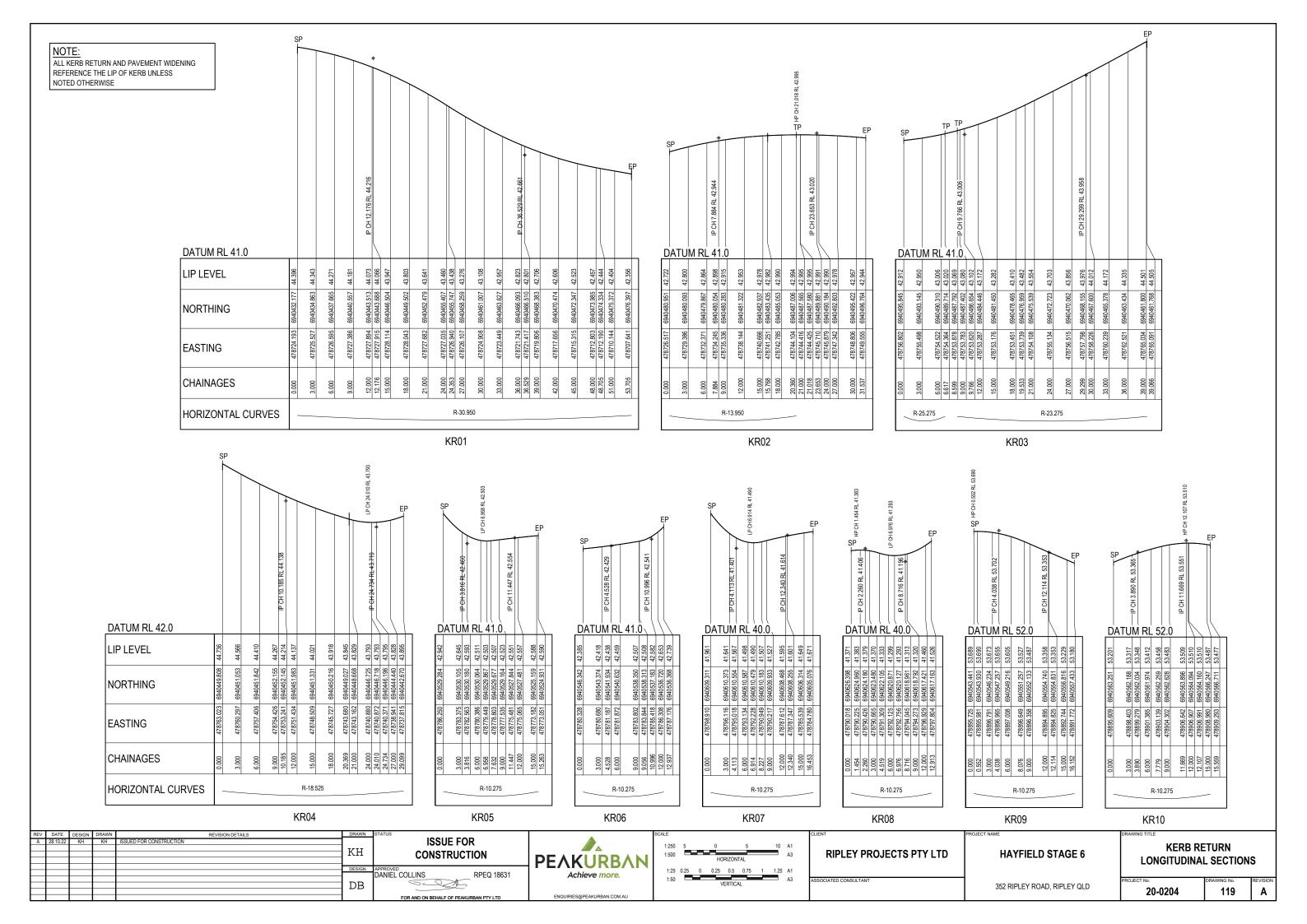
CONCRETE ISLAND INFILL TYPICAL SECTION

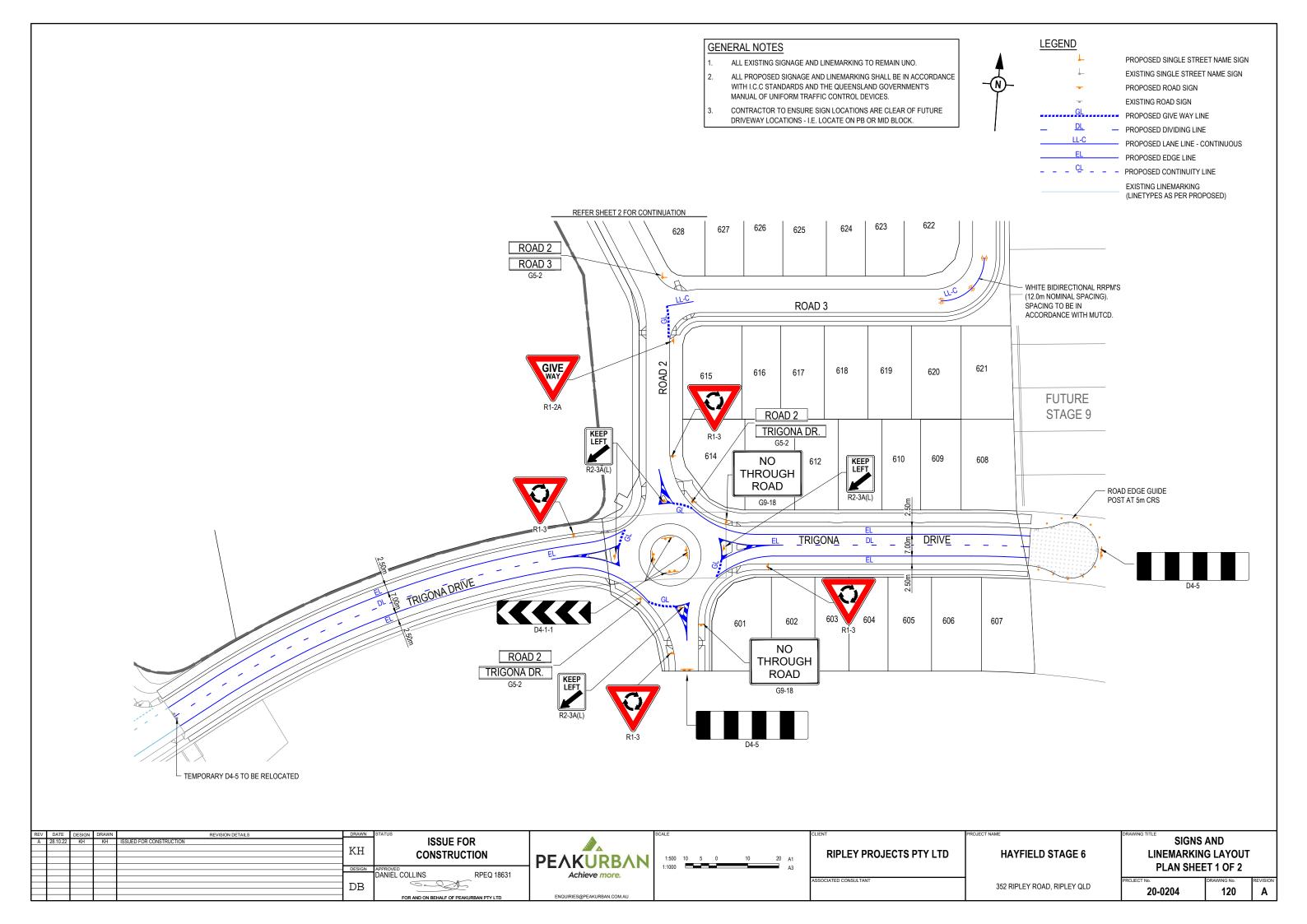
1:25 (A1) 1:50 (A3)

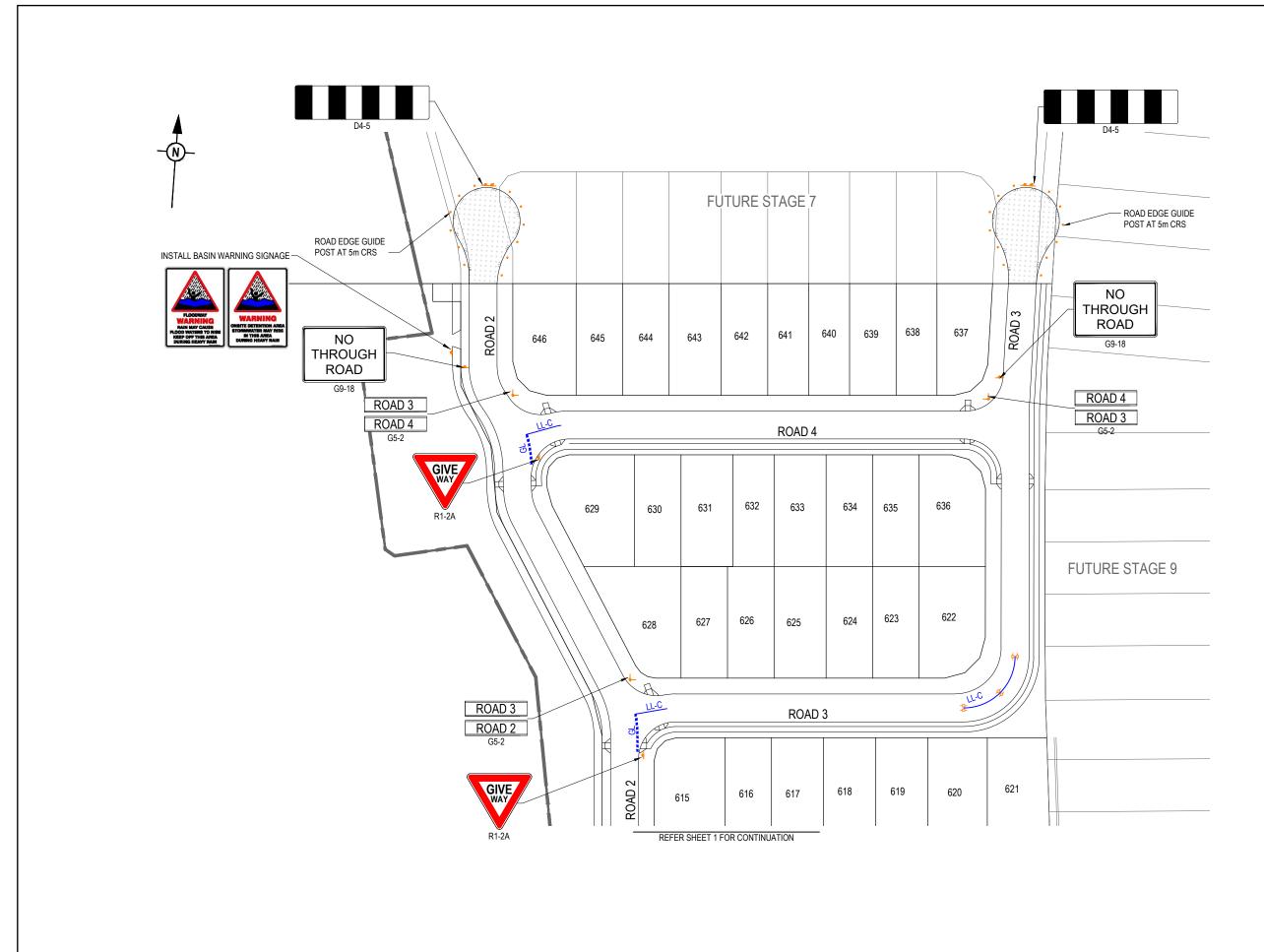
DATUM RL 41.0 43.624 LIP LEVEL NORTHING EASTING CHAINAGES HORIZONTAL CURVES R-10.275 R-10.275

ROUNDABOUT

A	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION	KH	ISSUE FOR CONSTRUCTION	PEAKURBAN	1:250 5 0 5 10 A1 1:500 A3 1:125 2.5 0 2.5 5 A1	RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 6	INTERSECTION LAYOUT PLAN	_	_
					DB	DANIEL COLLINS RPEQ 18631 FOR AND ON BEHALF OF PEAKURBAN PTY LTD	Achieve more. ENQUIRIES@PEAKURBAN.COM.AU	1:25 0.25 0 0.25 0.5 0.75 1.0 1.25 A1 1:50 A3	ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD	PROJECT No. 20-0204	DRAWING No.	REVISION



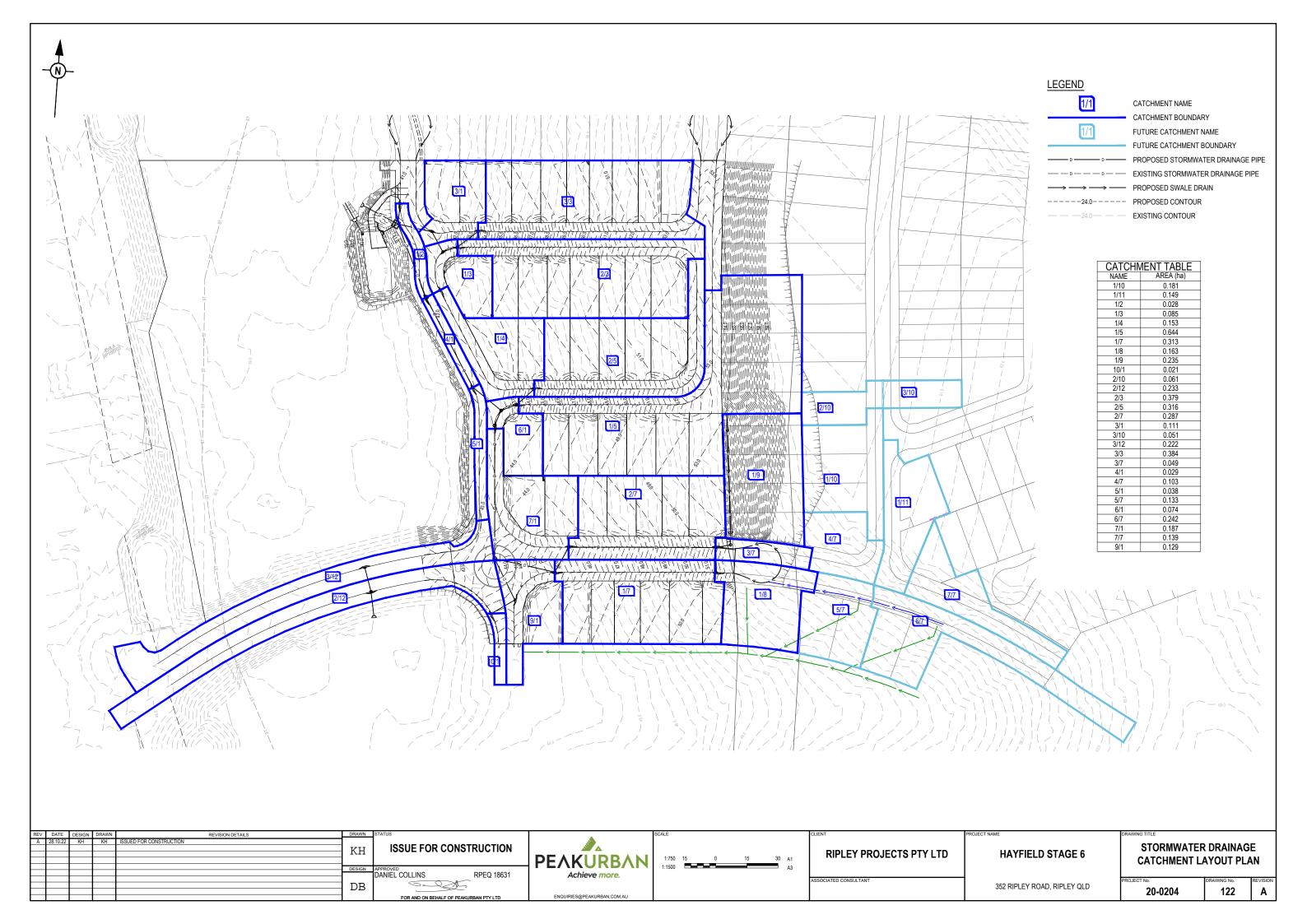


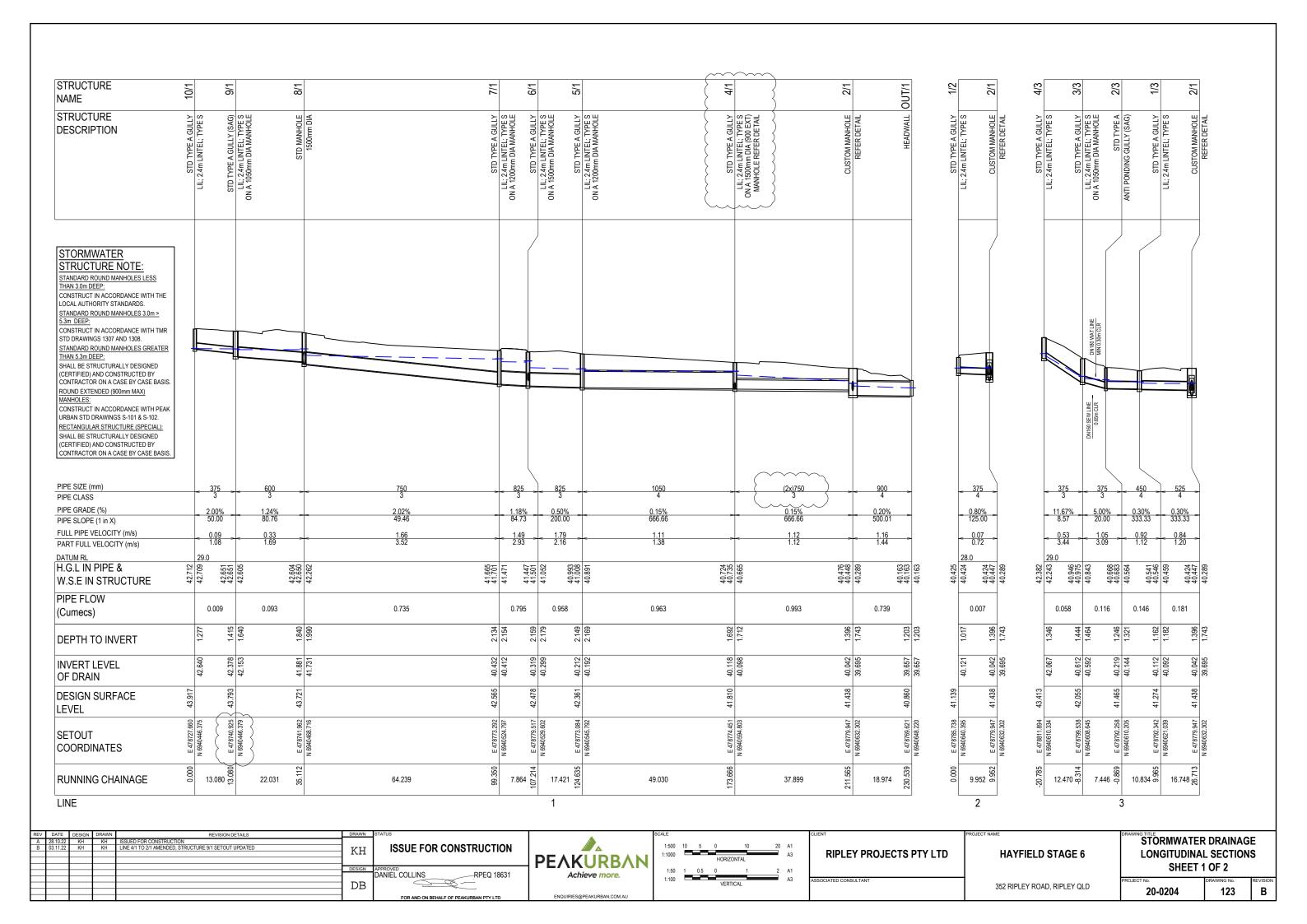


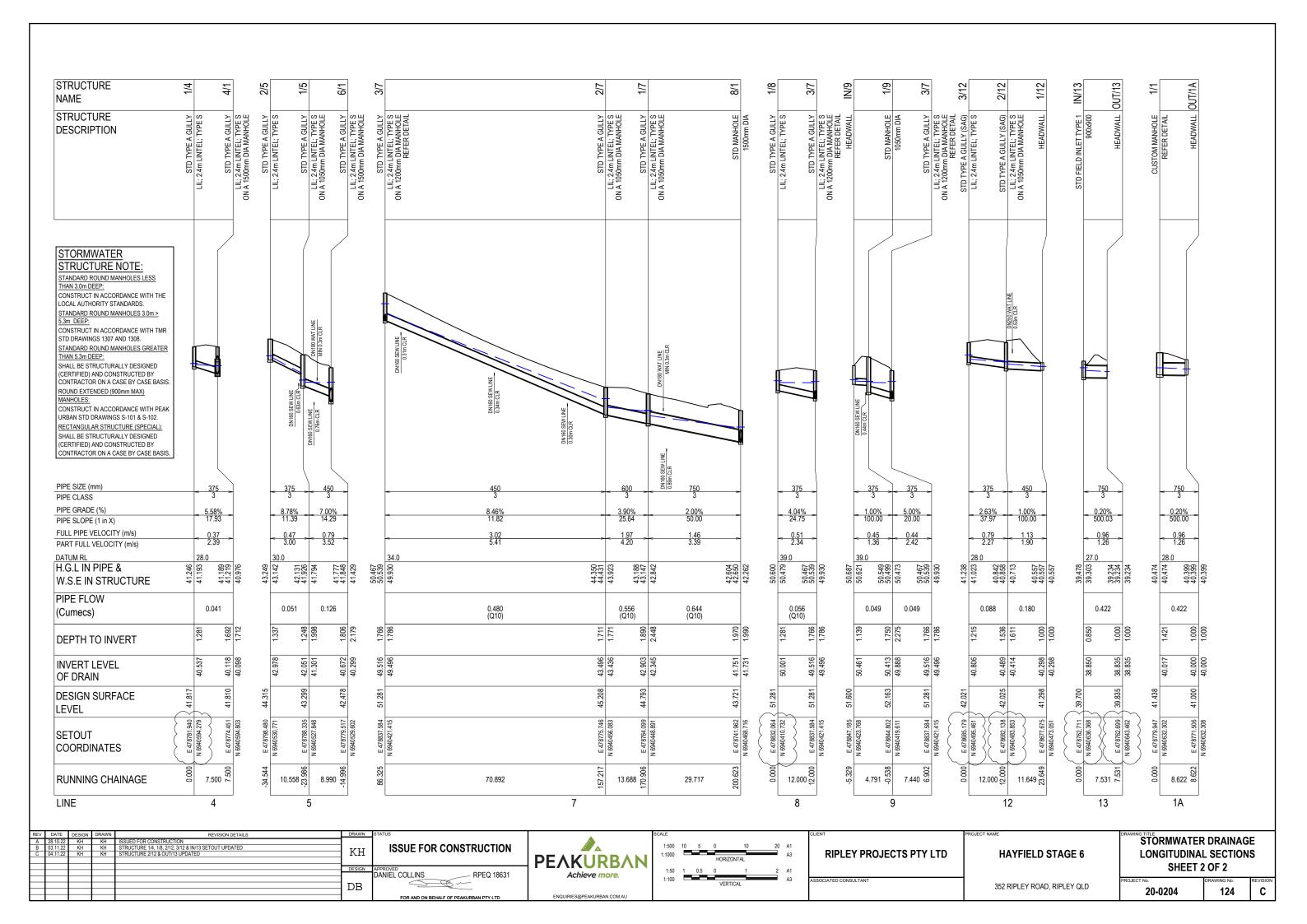
NOTE

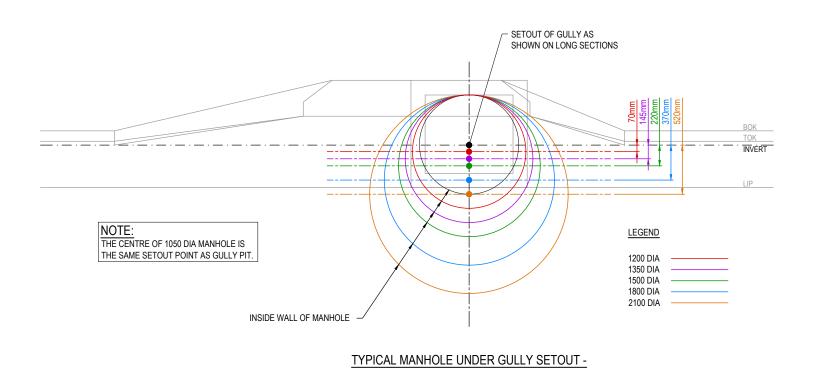
REFER TO SHEET 1 FOR NOTES AND LEGEND.

REV A 2	B.10.22	DESIGN KH	DRAWN	REVISION DETAILS ISSUED FOR CONSTRUCTION	DRAWN	ISSUE FOR	A	SCALE	CLIENT	PROJECT NAME	SIGNS	S AND	
					KH	CONSTRUCTION	DEAKLIDBAN	1:500 10 5 0 10 20 A1	RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 6	LINEMARKI		
	_				DESIGN	APPROVED	FLMORDMI	1:1000 A3 A3			PLAN SHE	EET 2 OF 2	
	_				D.D.	DANIEL COLLINS RPEQ 18631	Achieve more.		ASSOCIATED CONSULTANT	OFO DIDLEY DOAD, DIDLEY OLD	PROJECT No.	DRAWING No.	REVISION
					DB	FOR AND ON BEHALF OF PEAKURBAN PTY LTD	ENQUIRIES@PEAKURBAN.COM.AU			352 RIPLEY ROAD, RIPLEY QLD	20-0204	121	A





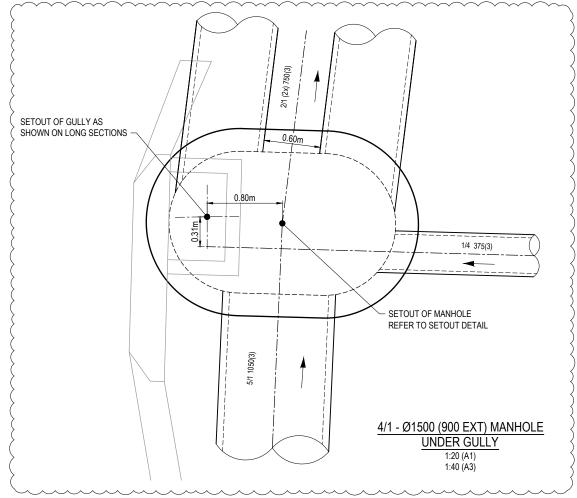


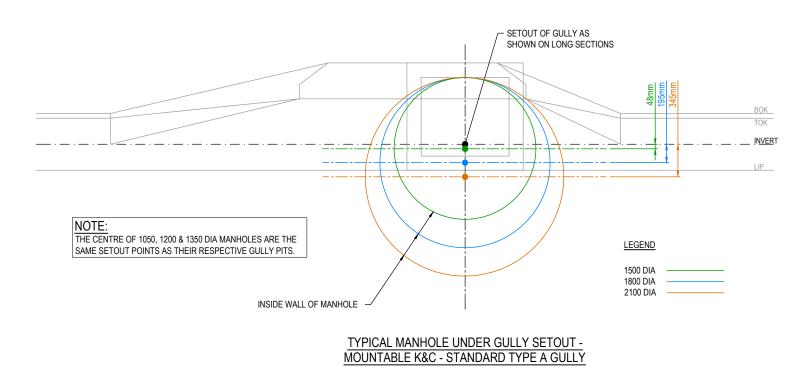


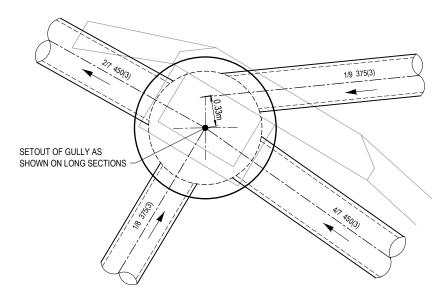
BARRIER K&C - STANDARD TYPE A GULLY

1:20 (A1) 1:40 (A3)

1:20 (A1) 1:40 (A3)

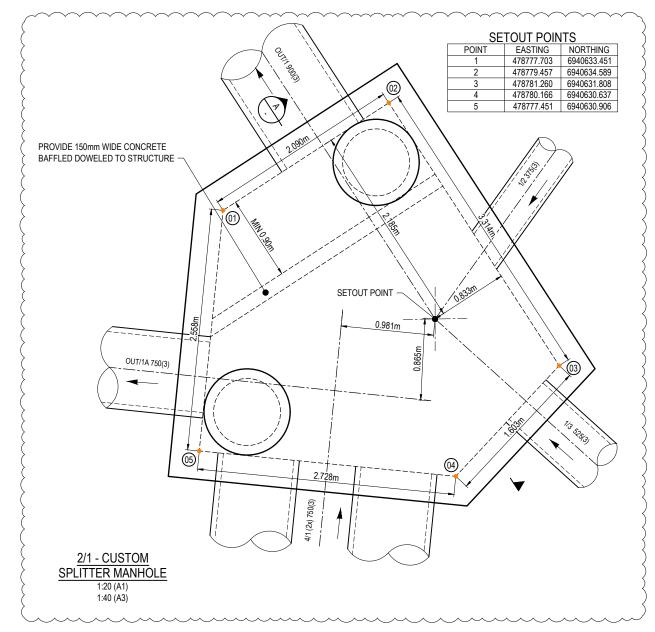


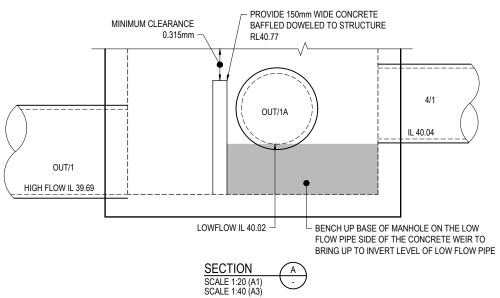


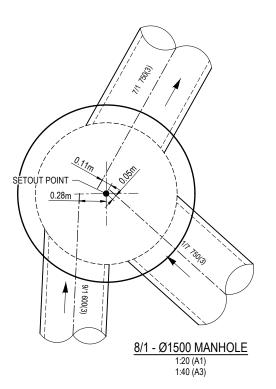


3/7 - Ø1200 MANHOLE UNDER GULLY 1:20 (A1) 1:40 (A3)

A B	DATE 28.10.22 03.11.22	DESIGN DRAWN KH KH KH KH	ISSUED FOR CONSTRUCTION STRUCTURE DETAIL 4/1 UPDATED	REVISION DETAILS	KH	ISSUE FOR CONSTRUCTION	PEAKURBAN	1:500 10 5 0 10 20 A1 1:1000 HORIZONTAL A3	RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 6	STORMWATER STRUCTURI	E DETAILS	
					DESIGN	DANIEL COLLINS RPEQ 18631	Achieve more.	1:50 1 0.5 0 1 2 A1 1:100 VERTICAL A3	ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD	PROJECT No. 20-0204	1 OF 2 DRAWING No. 125	REVISIO B







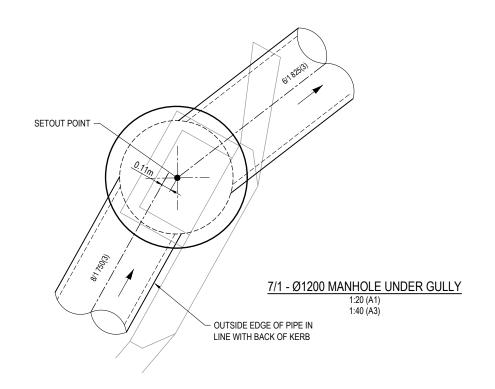
STRUCTURE SETOUT REFERENCE POINT

STRUCTURE TYPE	HORIZONTAL	VERTICAL
MANHOLE	€ MAIN SHAFT	FINISHED SURFACE LEVEL
GULLY PIT	INTERSECTION OF PIT AND KERB INVERT LNE # (INCLUDING MANHOLES UNDER GULLIES*)	KERB INVERT LEVEL
HEADWALL	INTERSECTION OF HEADWALL FACE & PIPE CENTRE LINE	TOP OF HEADWALL

- NOTE:

 # WITHIN GULLY PIT CHAMBER, CONTRACTOR TO ENSURE PIPES
 ARE OFFSET AS REQUIRED SO THAT PIPES ENTER WHOLLY
 WITHIN A SIDE WALL

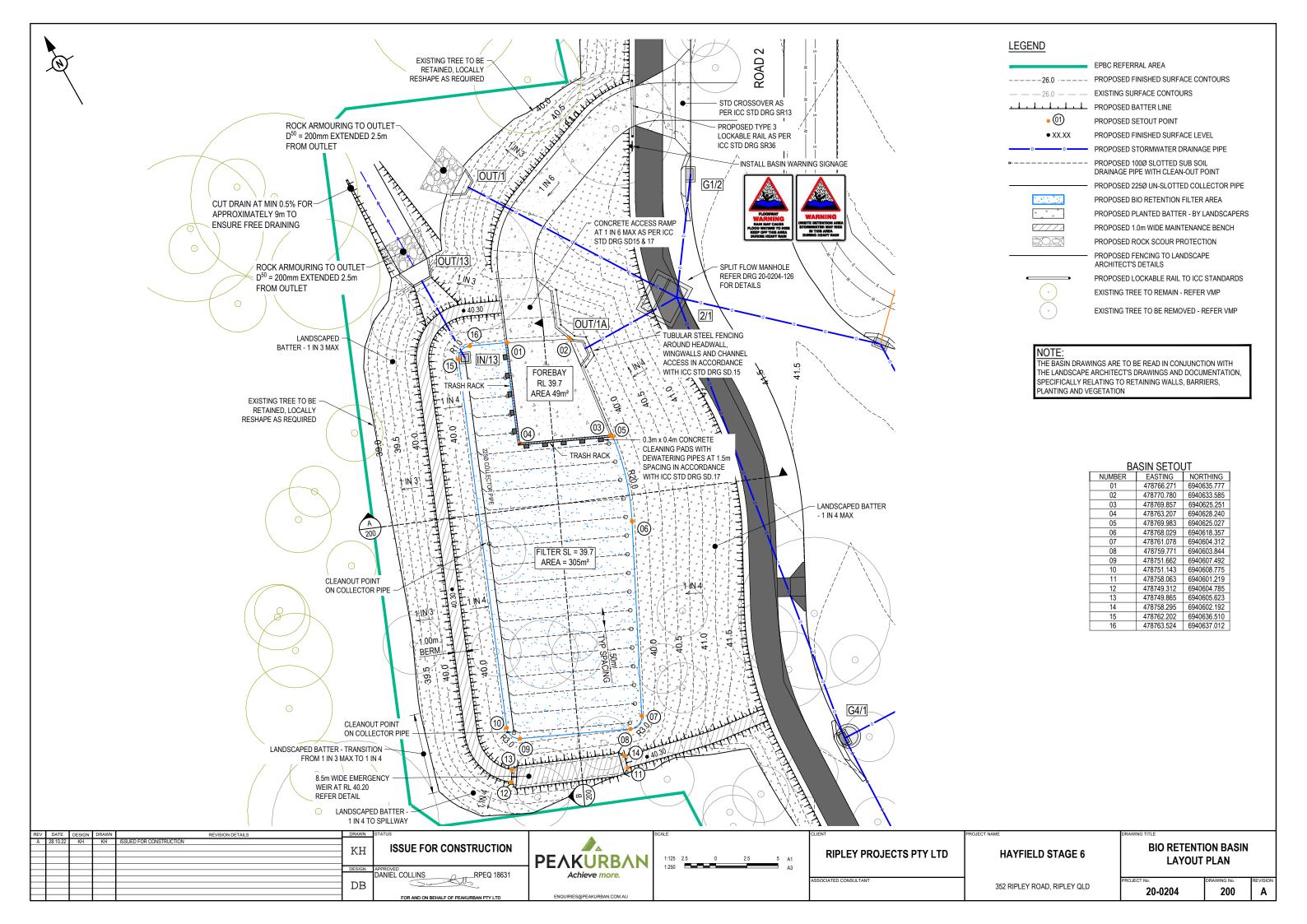
 * IN INSTANCES OF MANHOLES UNDER GULLIES, CONTRACTOR
 TO ENSURE PIPES ARE ALIGNED TO CENTRE OF MANHOLE,
 UNLESS SHOWN DIFFERENTLY IN A STRUCTURE DETAIL

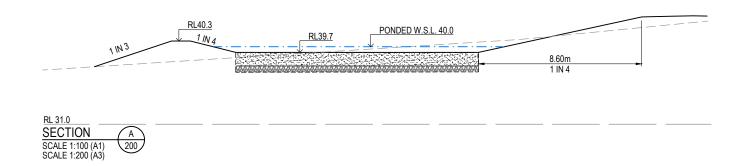


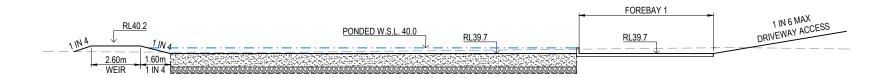
REV A	DATE 28.10.22	DESIGN DRA	AWN REVISION DETAILS H ISSUED FOR CONSTRUCTION	DRAWN	STATUS	A	SCALE	CLIENT	PROJECT NAME	STORMWATER	R DRAINAG	iF
В	03.11.22	KH K	H STRUCTURE DETAIL 2/1 UPDATED	КН	ISSUE FOR CONSTRUCTION	PEAKURBAN	1:20 0.2 0 0.2 0.4 0.6 0.8 1 A1	RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 6	STRUCTURE	DETAILS	
				DESIGN	APPROVED RPEQ 18631	Achieve more.	1:40 A3			SHEET 2	2 OF 2	
				DB	DAVILLE GOLLING	Achieve more.		ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD	PROJECT No. 20-0204	DRAWING No. 126	REVISION R
					FOR AND ON BEHALF OF PEAKURBAN PTY LTD	ENQUIRIES@PEAKURBAN.COM.AU				20-0204	120	لئلا

LOCATION		SUB-CATCHMENT RUNOFF				INIET	DESIGN						IDS	RAIN DESIGN		·				-		HEADLOSSES				DARTE	III DESIG	IN LEVELS			
EDEATION		30B-CATCHIVIENT RONOFF	Tc I	A	CA	Qc Qa	DBIGIV					Qg Qb		Tc	- 1	CA Qrat	Q	L S		Qcap	Vcap & Vt	ILAD LOSSES	V2/2g Ku h	u Kw hw	Sf	hf dn	Vn DESIG	IN LEVELS			
DESIGN ARI STRUCTURE No.	DRAIN SECTION	CONTRBUTING CATCHANENT	SUB-CATCHMENT TIME OF CONC. RAINFALL INTENSITY	SUB-CATCHMEN TAREA	EQUIVALENTAREA	SUB-CATCHMENT DISCHARGE FLOW IN K&C (INC. BYPASS)	HALF ROAD CAPAGTY	ELOWWIDTH FLOWDEPTH	ROAD GRADE ATINLET	NLET TYPE	INLET CURVE	FLOW IN TO IN LET BYPASS FLOW	BYPASS STRUCTURE No.	CRITICAL TIME OF CONC.	RAINFALL INTENSITY	TOTAL (Cx A) PEAK FLOW	PIPEFLOW	REACH LENGTH PIPE GRADE	PIPESIZE	PIPE CLASS CAPACITY FLOW	CAP. & TRA. VELOCITY	CHARTIS) USED	VELOCITY HEAD U/S HEAD LOSS COFFICIENT	W.S. E. COEFFICIENT CHANGE IN W.S. E.	PIPE FRICTION SLOPE	PIPE FRICTION HEAD LOSS NORMAL DEPTH	NORMAL DEPTH VEL.	TII S/O Jalid	PIPEU/SH.G.L	W.S.E	GRATELEVEL. STRUCTURE NO.
yrs			min mm/h			L/s L/s	7-					L/s L/s		min	mm/hr				mm	L/s				n m	- ''-	111	m/s m			m	m
100 10/1 1 2 9/1	10/1 to 9/1 10/1 to 9/1 9/1 to 8/1 9/1 to 8/1	10/1	5 129 5 281 10 106 10 229	0.021 0.129	0.02	15 15 27 85	8 54	0.462 0.0	9 4.26 1.04 6 4.26 1.04 3 1.2 1.11 8 1.2 1.11	AL2D SAL2D	4G, 2.5X 4G, 2.5X		2/12	5 5 10	281	0.02 15 0.107 56	15 1 93 2	3.08 2		3 248 3 248 3 684 3 684	2.25	G2 G2 G2/T9/T10 G2/T9/T10	9.7 0.0 0.001 3.78 0.0 0.006 8.22 0.0 0.022 4.03 0.0	04 0.00 46 8.33 0.04	0.01 0.01	0.081 0.05 0.001 0.064 0.004 0.15 0.02 0.215	1.25 42. 1.69 42.1	64 42.378	42.709 42.6 43.77 43.7 42.605 42.6 43.679 43.6	69 43.774 4 04 42.651 4	3.916 10/1
	8/1 to 7/1	IN/9 1/8 1/11 3/10 2/10 1/10 8/7 6/7 5/7 4/7 3/7 2/7 1/7 10/1 9/1					-			MH1050				14.1	93	1.602 761		4.239 2.02	750	3 1584		T9/T10	0.141 2.42 0.		88 0.93				42.262 41.6		43.72 8/1
	8/1 to 7/1	11475 176 1711 3710 2710 1710 077 077 377 477 377 277 177 107 1371								MH1050		_		14.1	200			-		3 1584		T9	0.279 1.93 0.			0.554 0.445		_	43.119 42.5		43.72 8/1
	7/1 to 6/1 7/1 to 6/1	IN/9 1/8 1/11 3/10 2/10 1/10 8/7 6/7 5/7 4/7 3/7 2/7 1/7 10/1 9/1	10 106		_	39 66 110 299		4.108 0.14	7 0.97 3 1 0.97 3	AL2D AL2D	1G, 3.3X 1G, 3.3X		6/1	14.4	198	1.735 795 2.261 1331			825 825	3 1560 3 1560		T3	0.113 1.72 0.1 0.058 1.29 0.0	_		0.024 0.417					12.565 7/1 12.565 7/1
100 6/1	6/1 to 5/1 6/1 to 5/1	2/5 1/5 IN/9 1/8 1/11 3/10 2/10 1/10 8/7 6/7 5/7 4/7 3/7 2/7 1/7 10/19/1 7/1	10 106 10 229	0.074	0.052 0.068	44 986	1	5.011 0.3	-	AL2D		52 986		15.03 15.03	194	2.469 967 3.218 1815	1745 1	7.421 0.5	825	3 1015 3 1015	1.9	T9/T10 G2/T9/T10		33 2.18 0.33	8 0.42	0.073 0.825	3.27 40.2	299 40.212	42.139 42.0	66 42.477 4	2.477 6/1 12.477 6/1
	5/1 to 4/1 5/1 to 4/1	2/5 1/5 IN/9 1/8 1/11 3/10 2/10 1/10 8/7 6/7 5/7 4/7 3/7 2/7 1/7 10/1 9/1 7/1 6/1	5 129 5 281		0.027			1.609 0.0	2 1.1 2.9 2 1.1 2.9	_	1G, 3.3X 1G, 3.3X	-	4/1 4/1	15.18 15.18	_	2.496 971 3.253 1828				4 1058 4 1058		T3	0.063 1.61 0.: 0.21 1.51 0.:								
	4/1 to 2/1		5 129		_		_	0.781 0.0		AL2D	1G, 3.3X	7	1/2	15.85	_	2.626 993		7.899 0.15 (3 863	_	T1/T3	0.064 0.92 0.0		$\overline{}$				40.665 40.4		
100 4/1	4/1 to 2/1	1/4 2/5 1/5 IN/9 1/8 1/113/10 2/101/10 8/7 6/7 5/7 4/7 3/7 2/7 1/7 10/1 9/17/3 6/1 5/1	5 281	0.029	0.027	21 21	244	1.383 0.00	4 1.3 3	AL2D	1G, 3.3X	21	1/2	15.85	190	3.422 1888	1854 3	7.899 0.15 ((2x)750	3 863	0.98	Т1/Т3	0.225 0.98 0.	22 1.11 0.24	18 0.69	0.262 0.75	2.1 40.0	98 40.042	41.326 41.0	63 41.574	41.81 4/1
2 2/1 2/	/1 to OUT/1									MH RECT				16.5	86	3.328 739	739 1	8.974 0.2	900	4 810	1.27	T3/T6	0.069 1.97 0.3	36 2.31 0.15	9 0.67	0.061 0.676	1.44 39.6	595 39.657	40.289 40.1	63 40.448 4	1.437 2/1
100 2/1 2/	/1to OUT/1	4/33/3 2/31/31/21/42/51/51N/91/81/113/102/101/108/76/75/74/73/7 2/71/710/19/17/16/15/14/1								MH RECT				16.5	186	4.337 1941	1941 1	8.974 0.2	900	4 810	1.27	Т3/Т6	0.248 1.9 0.4	72 2.21 0.54	16 0.7	0.1 0.9	3.05 39.6	595 39.657	40.592 40.	41.138 4	11.437 2/1
2 OUT/1										HW OUTLET																				40.163	40.66 OUT/1
100 OUT/1		4/33/3 2/3 1/3 1/2 1/4 2/5 1/5 IN/9 1/8 1/11 3/10 2/10 1/10 8/7 6/7 5/7 4/7 3/7 2/7 1/7 10/1 9/1 7/1 6/1 5/1 4/1								HW OUTLET																				40.46	40.66 OUT/1
	1/2 to 2/1		5 129							AL2D	2G, 3.3X	7	LOST	5		0.02 7		.952 0.8		4 157		G1	7 0.0						40.425 40.4		
100 1/2 2 2/1	1/2 to 2/1	4/3 3/3 2/3 1/3 1/2 1/4 2/5 1/5 IN/9 1/8 1/11 3/10 2/10 1/10 8/7 6/7 5/7 4/7 3/7	5 281	0.028	0.026	21 21	266	1.308 0.0	2 1.55 3	AL2D MH RECT	2G, 3.3X	21	LOST	5	281	0.026 21	21 9	0.952 0.8	375	4 157	1.42	G1 T3/T6	0.002 3.71 0.0	07 0.00 36 2.31 0.15		0.001 0.092	0.98 40.1	121 40.042	41.065 41.0	63 41.071 4 40.448 4	
100 2/1		2/7 1/7 10/1 9/17/1 6/15/1 4/1								MH RECT												T3/T6		72 2.21 0.54						41.138 4	
	4/3 to 3/3		13 96		0.273			1.546 0.0		AL2D	12G,3.3X	58 15		13	96				375			G2	0.014 9.7 0.:						42.243 40.9		3.413 4/3 3.413 4/3
	4/3 to 3/3 3/3 to 2/3		13 208 13 96		_				9 13.63 3	AL2D AL2D	_	110 95 58 14		13.04	_	0.355 205 0.542 145			375	3 392	_	G2 T1/T3	0.051 7.17 0.1 0.057 1.82 0.1					_	42.311 41. 40.843 40.6		
	3/3 to 2/3	4/3	13 208		_	203 203				AL2D	12G,3.3X		2/3	13.04	208			.446 5	375	3 392	+	T1/T3	0.2 1.41 0.3		6 1.56		3.65 40.5				2.055 3/3
	2/3 to 1/3 2/3 to 1/3	4/3 3/3	10 106 10 229		0.06		_	0.0	2.36 -0.6 2.36 -0.6			32 178		13.07	96 207	0.602 161 0.785 453			450	4 156 4 156		T9/T10 T9/T10	0.043 2.39 0.1 0.075 1.83 0.1				1.12 40.1		40.565 40.5 41.315 41.2		
	1/3 to 2/1	4/2 2/2 2/2	10 106						1 3.02 4.83			38		13.26						3 236			0.036 2.29 0.0								
	1/3 to 2/1	4/3 3/3 2/3	10 229	0.111	0.103	65 161	5462	2.528 0.1	.6 3.02 4.83			161		13.26	206	0.888 509	543 1	6.748 0.3	525	3 236	1.09	T6/T9	0.076 1.84 0.			0.063 0.525	2.51 40.0	92 40.042	41.126 41.0		1.274 1/3
2 2/1		4/3 3/3 2/3 1/3 1/2 1/4 2/5 1/5 IN/9 1/8 1/11 3/10 2/10 1/10 8/7 6/7 5/7 4/7 3/7 2/7 1/7 10/1 9/1 7/1 6/1 5/1 4/1			-					MH RECT MH RECT												T3/T6 T3/T6		36 2.31 0.15 72 2.21 0.54				-		40.448 4	1.437 2/1 1.437 2/1
2 1/4	1/4 to 4/1		10 106					1.963 0.0		AL2D	1G, 3.3X		2/3	10	_	0.109 32		7.5 5.58		3 414		G2	0.007 9.7 0.0	68 0.06	68 -0.49				40.687 40.7		1.817 1/4
100 1/4 2 4/1	1/4 to 4/1	1/4 2/5 1/5 IN/9 1/8 1/11 3/10 2/10 1/10 8/7 6/7 5/7 4/7 3/7 2/7 1/7 10/1 9/1 7/1	10 229		0.142	90 160	259	3.335 0.1 0.781 0.0	1 1.3 3	AL2D AL2D	1G, 3.3X 1G, 3.3X	126 34 7	2/3	10	229	0.142 90	126	7.5 5.58	375	3 414	3.75	G2 T1/T3	0.066 3.38 0.3 0.92 0.0		-	0.039 0.142	3.29 40.5	37 40.118	41.584 41.5		41.817 1/4 41.81 4/1
100 4/1		6/15/1	5 281		0.027	21 21		1.383 0.0		ALZD	1G, 3.3X	21	1/2									T1/T3	0.98 0.								41.81 4/1
	2/5 to 1/5		13 96		0.225	60 60		1.425 0.00		ALZD	12G,3.3X	51 9		13	96				375	3 520	4.71	G2	0.011 9.7 0.:		9.58				43.142 42.1		14.315 2/5
	2/5 to 1/5		13 208 15 90		0.293	169 169 114 114	_	2.162 0.0 1.851 0.0		AL2D AL2D	12G,3.3X 12G.3.3X	99 70 78 36		13	208	0.293 169 0.682 170		0.558 8.78 8.99 7	375 450	3 520 3 755		G2 G2/T10	0.041 7.77 0.3 0.032 3.82 0.3		\rightarrow	0.524 0.111		_	43.209 42.7		14.315 2/5 13.298 1/5
	1/5 to 6/1 1/5 to 6/1	2/5	15 90		0.596		-	2.775 0.00		ALZD	12G,3.3X		-,-	15	194	0.889 479		8.99 7	450	3 755	4.74	G2/T10	0.102 2.12 0.		9 0.62				42.525 42.4		13.298 1/5
2 6/1	-,			-		-			9 2.25 0.1	0.000	120,3.36	52	O/ I		104	0.003		/		- 133	7.77	T9/T10		95 2.74 0.44		0.105		-0.0/2			12.477 6/1
100 6/1		2/5 1/5 IN/9 1/8 1/11 3/10 2/10 1/10 8/7 6/7 5/7 4/7 3/7 2/7 1/7 10/1 9/1 7/1	10 229	0.074	0.068	44 986	1	5.011 0.3	6 2.25 0.1	AL2D		986										G2/T9/T10	2.13 0.	33 2.18 0.33	18					42.477 4	2.477 6/1
	3/7 to 2/7 3/7 to 2/7	IN/9 1/8 1/11 3/10 2/10 1/10 8/7 6/7 5/7 4/7							9.81 3.03 5 9.81 3.03		8G, 3.3X	19 63 21	2/7	13.68 13.68		1.069 493 1.393 819							0.465 1.15 0.9 1.148 0.95 1.0								
	2/7 to 1/7	IN/9 1/8 1/11 3/10 2/10 1/10 8/7 6/7 5/7 4/7 3/7	10 106	0.287	0.204	60 106	1927	2.09 0.0	5 6.47 3	AL2D		80 27	-,-	13.9	94	1.273 595	556 1	3.688 3.9	600	3 1213	4.29	T6/T9	0.197 2.17 0.4	27 2.58 0.50	08 5.37	0.099 0.289	4.2 43.4	136 42.903	43.923 43.1	88 44.431 4	5.207 2/7
	2/7 to 1/7	11 (2) (1 () () () () () () () () (9 6.47 3		-	1 189	_	13.9	_	1.659 977							0.354 1.7 0.0								
	1/7 to 8/1 1/7 to 8/1	IN/9 1/8 1/11 3/10 2/10 1/10 8/7 6/7 5/7 4/7 3/7 2/7							8 6.01 3 7 6.01 3			90 38 129 99		13.96 13.96		1.495 708 1.948 1155							0.108 2.44 0.3 0.197 1.82 0.3 2.42 0.3		7 0.61					58 44.265 4	
100 8/1		IN/9 1/8 1/11 3/10 2/10 1/10 8/7 6/7 5/7 4/7 3/7 2/7 1/7 10/1 9/1								MH1050												Т9	1.93 0.5	39 2.15 0.60	01					43.72	43.72 8/1
100 1/8	1/8 to 3/7 1/8 to 3/7		10 229	0.163	0.151	96 128	2458	2.044 0.0	1 10.2 2.9 4 10.2 2.9	AL2D	12G,3.3X	56 12 84 44	1/7	10 10		0.116 60 0.151 96						G2	0.013 9.16 0.1 0.03 3.65 0.1	08 0.10	0.23				50.479 50.4 51.071 51.0	44 51.179 5	1.281 1/8
2 3/7 100 3/7		IN/9 1/8 1/11 3/10 2/10 1/10 8/7 6/7 5/7 4/7							9.81 3.03 5 9.81 3.03		8G, 3.3X	19 63 21	2/7				+ +					T1/T3 T1/T3		37 1.31 0.60 87 1.1 1.26							51.281 3/7 51.281 3/7
2 IN/9 I	N/9to 1/9		10 106	0.235	0.167	49 49	5587	0.933 0.00	i4	HW INLET	-u, J.J.	49		10		0.167 49						Inlet Control	0.01 6.44 0.0	65 0.06	55 1.51				50.621 50.5	49 50.687	51.6 IN/9
	N/9to 1/9		10 229	0.235	0.217	138 138	5587	1.242 0.0	3	HW INLET		138		10									0.08 1.5 0.								
	1/9 to 3/7 1/9 to 3/7	IN/9		+ +					+	MH1050 MH1050			+	10.05 10.05		0.167 49 0.217 138							0.01 2.08 0.0 0.08 1.6 0.1								
2 3/7		IN/9 1/8 1/11 3/10 2/10 1/10 8/7 6/7 5/7 4/7							9.81 3.0	AL2D	8G, 3.3X		2/7									T1/T3	1.15 0.9	37 1.31 0.60	9					50.539 5	51.281 3/7
100 3/7 2 3/12 3,	/12 to 2/12		10 229 10 106					1.743 0.0	9.81 3.03 5 -0.0		8G, 3.3X	63 21 88	2/7	10	106	0.158 88	RR	12 263	375	3 795	7 52	T1/T3	0.95 1.0 0.032 6.67 0.1	87 1.1 1.26 15 0.21		0 237 0 243	2 27 40 5	206 40.490	41.023 40.8		51.281 3/7 47.02 3/12
	/ 12 to 2/12		10 106					0.0				149		10		0.158 88						_	0.032 6.67 0.0						41.023 40.8		
	/12 to 1/12	3/12	10 106		_			0.0				93		10.08		0.323 180				3 285			0.065 1.97 0.								
100 2/12 2, 2 1/12	/12 to 1/12		10 229	0.233	0.216	137 157	322	0.0	2 -0.4	SAL2D HW OUTLET	1	157	+ +	10.08	228	0.421 306	306 1	1.649 1	450	3 285	1.79	G1/T1/T3	0.189 1.77 0.3	35 1.91 0.30	1.19	U.119 0.413	2 40.4	14 40.298	40.821 40.6		2.025 2/12 10.798 1/12
100 1/12		3/12 2/12								HW OUTLET																					10.798 1/12
	· <u></u>		· <u> </u>				_					· <u> </u>			_							· <u></u>					·				

REV DATE DESIGN DRAWN REVISION DETAILS	KH ISSUE FOR CONSTRUCTION	PEAKURBAN	SURLE	RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 6	STORMWATER CALCULATIO	ONS TABLE	
	DANIEL COLLINS POR AND ON BEHALF OF PEAKURBAN PTY LTD	Achieve more. ENQUIRIES@PEAKURBAN.COM.AU		ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD	SHEET 1 PROJECT No. 20-0204		REVISION B







RL 31.0 SECTION B SCALE 1:100 (A1) SCALE 1:200 (A3)

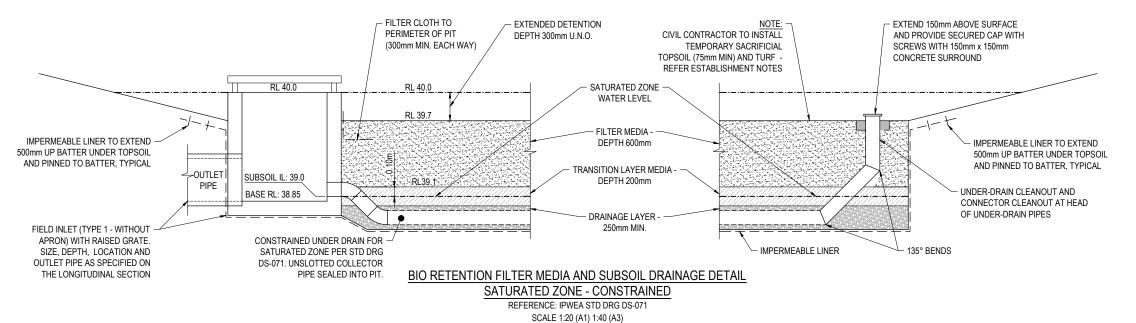
REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS
Α	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION]	
					KH	ISSUE FOR CONSTRUCTION
					КП	
-						
_						APPROVED
-					1	DANIEL COLLINS RPEQ 18631
					DB	S
					םען	
						FOR AND ON BEHALF OF PEAKURBAN PTY LTD

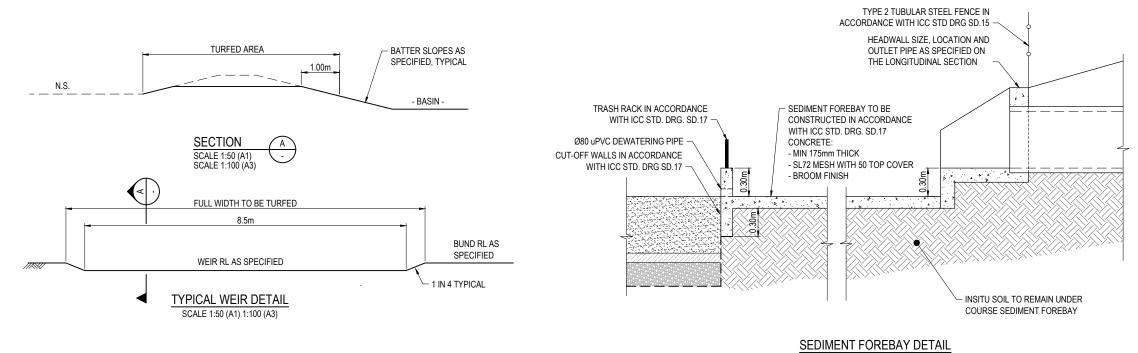


CALE								
1:20	0.2	0	0.2	0.4	0.6	0.8	1	A1
1:40			_		_	_		A3
1:125	2.5		0		2.5		5	A1
1:250								A3

RIPLEY PROJECTS PTY LTD	
ASSOCIATED CONSULTANT	

NAME	DRAWING TITLE	ON DACIN			
HAYFIELD STAGE 6	BIO RETENTION BASIN TYPICAL SECTIONS				
352 RIPLEY ROAD, RIPLEY QLD	PROJECT No. 20-0204	DRAWING No. 201			





NOTES:

- BIORETENTION SYSTEM SURFACE. SURFACE LEVEL IS TOP OF FILTER MEDIA. SURFACE TO BE MULCHED AND PLANTED AS PER PROJECT DRAWINGS AND THE 'BIORETENTION TECHNICAL DESIGN GUIDELINES' (WATER BY DESIGN).
- FILTER MEDIA SPECIFICATION SHALL BE IN ACCORDANCE WITH THE 'ADOPTION GUIDELINES FOR STORMWATER BIOFILTRATION SYSTEMS (CRC FOR WATER SENSITIVE CITIES) AND THE BIORETENTION TECHNICAL DESIGN GUIDELINES (WATER BY DESIGN). BIORETENTION HYDRAULIC CONDUCTIVITY SHALL BE IN ACCORDANCE WITH PRACTICE NOTE 1: IN SITU MEASUREMENT OF HYDRAULIC CONDUCTIVITY' (FAWB). THE NUMBER OF SAMPLES TO BE TESTED SHALL BE IN ACCORDANCE WITH THE 'CONSTRUCTION AND ESTABLISHMENT GUIDELINES - SWALES, BIORETENTION SYSTEMS AND WETLANDS' (WATER BY DESIGN).
- CONSTRUCTION TOLERANCES SHALL BE IN ACCORDANCE WITH THE 'CONSTRUCTION AND ESTABLISHMENT GUIDELINES -SWALES, BIORETENTION SYSTEMS AND WETLANDS' (WATER BY DESIGN)
- TRANSITION LAYER AND DRAINAGE LAYER DEPTHS VARY WITH DESIGN. DEPTHS AND SPECIFICATION TO BE IN ACCORDANCE WITH PROJECT DRAWINGS AND THE 'BIORETENTION TECHNICAL DESIGN GUIDELINES' (WATER BY DESIGN)
- 5. UNDERDRAIN TO BE SLOTTED RIGID PIPE LAID AT 0.5% GRADE. REFER TO PROJECT DRAWINGS FOR DIAMETER AND PIPE INVERT. PIPE SHOULD NOT BE INSTALLED WITH A FILTER SOCK SURROUNDING PIPE. UNDERDRAIN PIPES SHALL BE SEALED INTO PITS USING GROUT OR OTHER APPROVED WATERTIGHT SEAL.
- 6. LINER (AS SPECIFIED ON THE PROJECT DRAWINGS):
- 6.1. PERMEABLE LINER: NON-WOVEN GEOTEXTILE FILTER CLOTH TO BASE AND SIDES OF BIORETENTION SYSTEM. FILTER CLOTH NOT TO BE PLACED BETWEEN ANY FILTER LAYERS. REFER 'BIORETENTION TECHNICAL DESIGN GUIDELINES' (WATER BY DESIGN)
- 6.2. IMPERMEABLE LINER: COMPACTED CLAY OR SYNTHETIC LINER WITH PERMEABILITY OF NO GREATER THAN 1 X 10⁹m/s. IMPERMEABLE LINER TO BE SEALED AROUND ALL PROTRUSIONS. SYNTHETIC LINERS TO BE INSTALLED AND SEALED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. REFER 'BIORETENTION TECHNICAL DESIGN GUIDELINES' (WATER BY DESIGN).
- UNDERDRAIN OUTLET RISER ESTABLISHES MAX SATURATED ZONE WATER LEVEL. UNDERDRAIN OUTLET RISER AS PER PROJECT DRAWINGS AND 'BIORETENTION TECHNICAL DESIGN GUIDELINES' (WATER BY DESIGN)
- VEGETATED BATTER. SLOPE AND PLANTING TO BE IN ACCORDANCE WITH PROJECT DRAWINGS AND 'BIORETENTION TECHNICAL DESIGN GUIDELINES' (WATER BY DESIGN).
- INSPECTION/CLEANOUT POINT. VERTICAL SOLID PIPE SECTION ATTACHED TO THE END OF EACH UNDERDRAIN IN ACCORDANCE WITH PROJECT DRAWINGS AND THE 'BIORETENTION TECHNICAL DESIGN GLIDELINES' (WATER BY DESIGN)
- FILTER CLOTH TO BE FIXED TO PERIMETER OF PIT TO AVOID RUNNELLING OF WATER BETWEEN PIT AND SOIL INTERFACE. BEGIN FILTER CLOTH 100 ABOVE SURFACE. EXTEND TO 100 BELOW SURFACE. CONTINUE 300 HORIZONTALLY INTO FILTER MEDIA.

ESTABLISHMENT NOTES:

- BASIN DRAINAGE LAYERS AND FILTER TO BE CONSTRUCTED AND TEMPORARILY PROTECTED USING GEOTEXTILE PLACED OVER FILTER WITH 75mm TOPSOIL AND TURFED PRIOR TO CIVIL ON-MAINTENANCE. BASIN TO BE KEPT IN THIS PROTECTED STATE UNTIL 95% OF BUILDING WORKS HAVE BEEN COMPLETED IN THE CONTRIBUTING CATCHMENT.
- PRIOR TO ON AND OFF MAINTENANCE INSPECTION, 3 IN-SITU FILTRATION TESTS
 ARE TO BE PROVED DEMONSTRATING THAT THE HYDRAULIC CONDUCTIVITY IS
 MET AT 200mm/hr.
- B. PLANTING OF FILTER TO OCCUR ONLY AFTER CONSTRUCTION OF 95% OF THE CONTRIBUTING CATCHMENT HAS BEEN COMPLETED, AFTER SUCCESSFUL INFILTRATION TESTS. PLANTING ON FILTER SUBJECT TO FURTHER 12 MONTHS MAINTENANCE PERIOD.
- 4. THE MAINTENANCE PERIOD SHALL COMMENCE ONCE FORMAL NOTIFICATION HAS BEEN PROVIDED BY COUNCIL.

NOTE:

- FOR DESIGN AND CONSTRUCTION NOTES REFER TO IPWEA STANDARD DRAWING DS-078.
- DRAWINGS TO BE READ IN CONJUNCTION WITH SITE BASED STORMWATER MANAGEMENT PLAN AND LANDSCAPE ARCHITECT'S PLANS

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	<u> </u>	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
Α	28.10.22	KH	KH	ISSUED FOR CONSTRUCTION		ICCUE FOR CONCERNICATION					BIO RETENTION B	DACINI TVDI	ו גאו
					KH	ISSUE FOR CONSTRUCTION			RIPLEY PROJECTS PTY LTD	HAYFIELD STAGE 6	1		CAL
							PEAKURBAN	1:125 2.5 0 2.5 5 A1	Kii EET TROOLOTOT TT ETD	IIATTILLE STAGE 0	NOTES AND	DETAILS	
					DESIGN	APPROVED		1:250 A3					
-			-			DANIEL COLLINS RPEQ 18631	Achieve more.					·	
					םח	15			ASSOCIATED CONSULTANT	352 RIPLEY ROAD, RIPLEY QLD			REVISION
					ם עו					332 KII ELI KOAD, KII ELI QED	20-0204	202	I A I
						FOR AND ON BEHALF OF PEAKURBAN PTY LTD	ENQUIRIES@PEAKURBAN.COM.AU						

SCALE 1:20 (A1) 1:40 (A3)