

# WOODLINKS VILLAGE - STAGE 19

## COLLINGWOOD DRIVE, COLLINGWOOD PARK

### FOR 'CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED'

#### DRAWING LIST

#### EARTHWORKS, ROADWORKS AND DRAINAGE

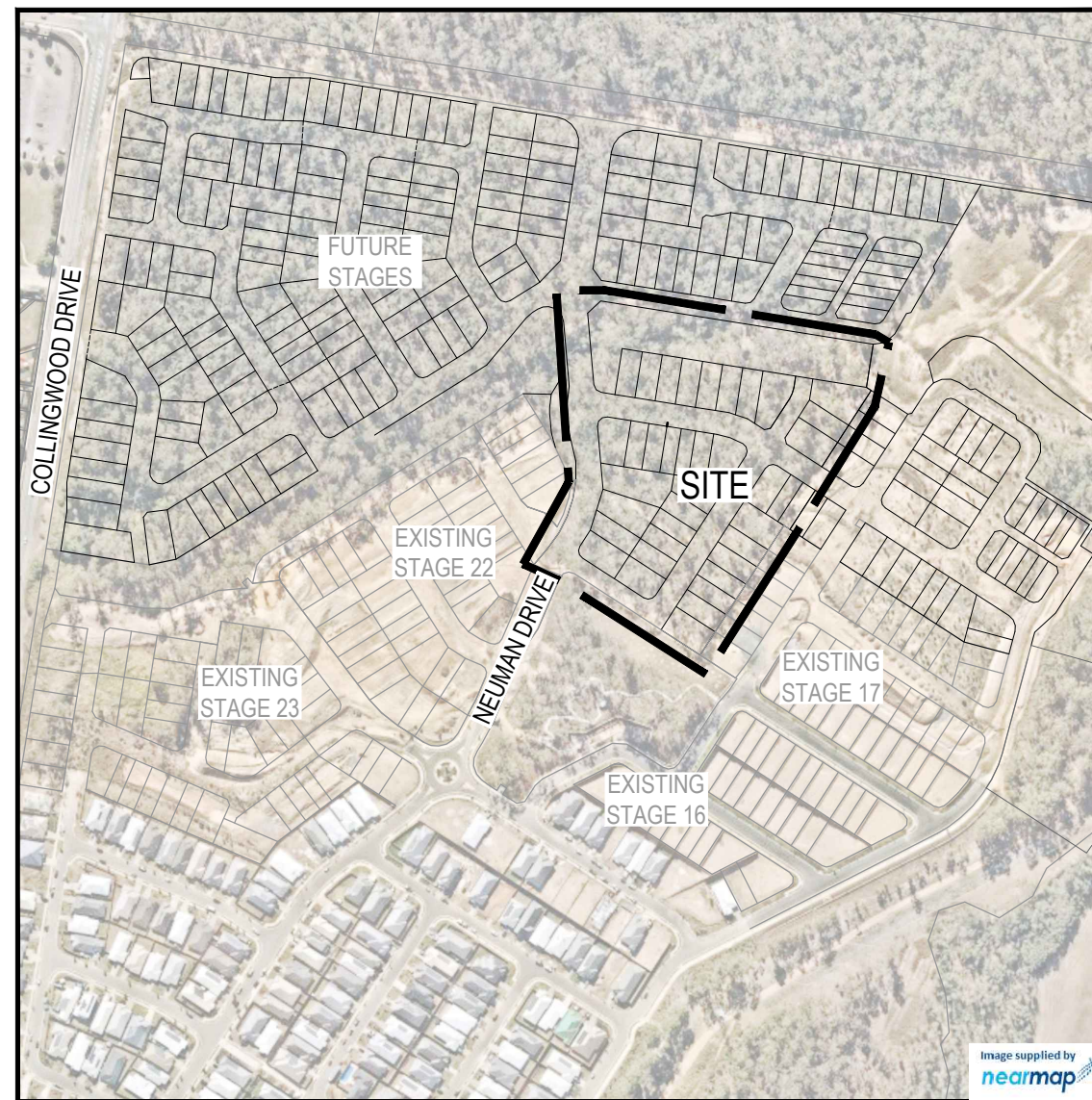
- 21-0132-100 COVER PLAN
- 21-0132-101 GENERAL NOTES
- 21-0132-102 BULK EARTHWORKS LAYOUT PLAN SHEET 1 OF 2
- 21-0132-103 BULK EARTHWORKS LAYOUT PLAN SHEET 2 OF 2
- 21-0132-104 BULK EARTHWORKS TYPICAL SECTIONS
- 21-0132-105 ROADWORKS AND DRAINAGE LAYOUT PLAN
- 21-0132-106 SURVEY SETOUT AND KERB TYPE LAYOUT PLAN
- 21-0132-107 ALABASTER STREET LONGITUDINAL SECTION AND CROSS SECTIONS
- 21-0132-108 ALABASTER STREET CROSS SECTIONS
- 21-0132-109 NEUMAN DRIVE LONGITUDINAL SECTION
- 21-0132-110 NEUMAN DRIVE CROSS SECTIONS
- 21-0132-111 ELDER PARADE LONGITUDINAL SECTION
- 21-0132-112 ELDER PARADE CROSS SECTIONS
- 21-0132-113 DRIVEWAY 01 LONGITUDINAL SECTION AND CROSS SECTIONS
- 21-0132-114 INTERSECTION DETAILS LAYOUT PLAN SHEET 1 OF 2
- 21-0132-115 INTERSECTION DETAILS LAYOUT PLAN SHEET 2 OF 2
- 21-0132-116 DRIVEWAY JOINTING DETAILS AND NOTES
- 21-0132-117 SIGNS AND LINEMARKING LAYOUT PLAN
- 21-0132-118 STORMWATER DRAINAGE CATCHMENT LAYOUT PLAN
- 21-0132-119 STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 2
- 21-0132-120 STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 2 OF 2
- 21-0132-121 STORMWATER DRAINAGE Q10 CALCULATIONS TABLE AND STRUCTURE DETAILS
- 21-0132-122 STORMWATER DRAINAGE Q2 CALCULATIONS TABLE
- 21-0132-123 CULVERT DETAILS LAYOUT PLAN

#### STORMWATER QUALITY

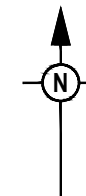
- 21-0132-200 SWALE LAYOUT PLAN SHEET 1 OF 3
- 21-0132-201 SWALE LAYOUT PLAN SHEET 2 OF 3
- 21-0132-202 SWALE LAYOUT PLAN SHEET 3 OF 3
- 21-0132-203 FOREBAY LAYOUT PLAN

#### SEWER AND WATER RETICULATION

- 21-0132-300 SEWERAGE RETICULATION COVER PLAN
- 21-0132-301 SEWERAGE RETICULATION LAYOUT PLAN
- 21-0132-302 SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 1 OF 2
- 21-0132-303 SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 2 OF 2
- 21-0132-304 SEWERAGE RETICULATION CROSS SECTIONS
- 21-0132-305 WATER RETICULATION COVER PLAN
- 21-0132-306 WATER RETICULATION LAYOUT PLAN
- 21-0132-307 FIRE HYDRANT REACH LAYOUT PLAN



LOCALITY PLAN  
SCALE 1:2500 (A1)  
SCALE 1:5000 (A3)



PROJECT INFORMATION SUMMARY:	
No. OF LOTS =	38
AREA OF SITE =	3.8 ha
RP DESCRIPTION	LOT 5007 ON SP 317659
DATUM LEVEL AND LOCATION	P.M. 110122 RL 40.320 AHD
LOCAL AUTHORITY:	IPSWICH CITY COUNCIL
COUNCIL REFERENCE NUMBER:	4280/15/MAMC/C

NOTE:	
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
-	SITE BASED MANAGEMENT PLAN
-	STORMWATER MANAGEMENT PLAN REPORT

AS-CONSTRUCTED CERTIFICATION	
Signature: <i>S. Thomas</i>	Date: 02/12/22
SCOTT THOMAS	RPEQ No. 04618
For and on behalf of Colliers Engineering and Design	

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	17.01.22	CL	CL	ISSUED FOR CONSTRUCTION						
B	01.11.22	CL	TP	AS CONSTRUCTED						
<p style="text-align: center;"><b>AS CONSTRUCTED</b></p> <p style="text-align: center;"><b>Colliers</b></p> <p style="text-align: center;">APPROVED SCOTT THOMAS RPEQ 04618</p> <p style="text-align: center;"><small>THE DESIGN HAS BEEN PREVIOUSLY CERTIFIED BY PEAKURBAN AND APPROVED BY URBAN UTILITIES</small></p>							<p>1:2500 50 0 50 100 A1</p> <p>1:5000</p>	<p><b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b></p> <p>ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744</p>	<p><b>WOODLINKS VILLAGE - STAGE 19</b></p> <p>COLLINGWOOD DRIVE COLLINGWOOD PARK</p>	<p><b>COVER PLAN</b></p> <p>PROJECT No. <b>21-0132</b> DRAWING No. <b>100</b> REVISION <b>B</b></p>

**GENERAL NOTES:**

1. 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.
3. ALL CONSTRUCTION ACTIVITIES UNDERTAKEN SHALL COMPLY WITH CURRENT WORKPLACE HEALTH AND SAFETY REQUIREMENTS AND LEGISLATION.
4. 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.
9. **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**

1. 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.
2. THE CONTRACTOR SHALL UNDERTAKE ALL CLEARING USING INDUSTRY BEST PRACTICE INCLUDING CONSIDERATION OF FAUNA RELOCATION.
3. 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.
5. 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.
7. ALLOTMENT FINISHED SURFACE LEVELS, SHOWN ON THE LAYOUT PLAN, INDICATE THE FINISHED SURFACE LEVEL AFTER TOPSOIL PLACEMENT.


**ROADWORKS AND DRAINAGE NOTES**

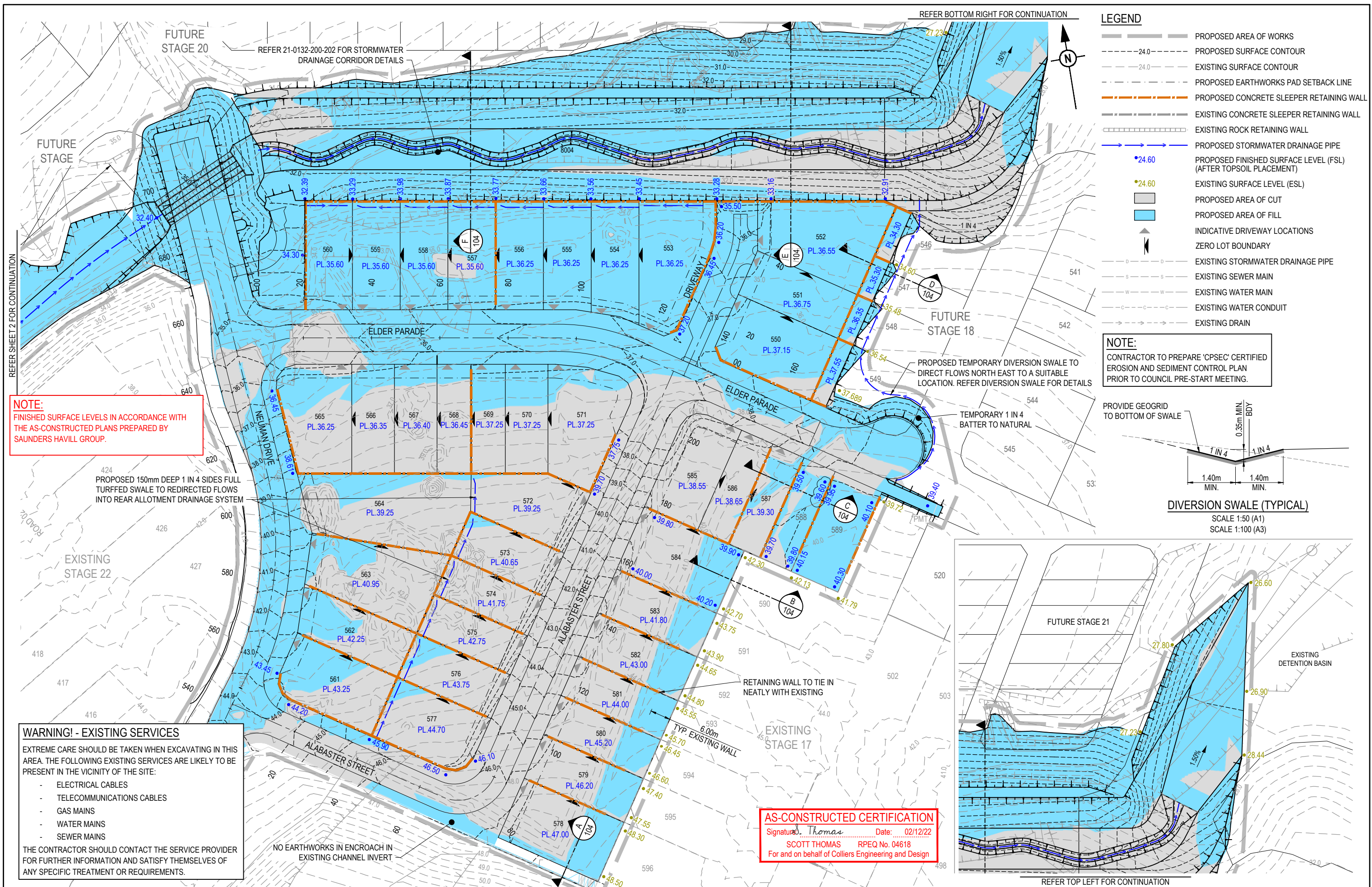
1. ALL WORKS SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITY'S STANDARD DRAWINGS, METHODS AND SPECIFICATIONS.
2. NOTWITHSTANDING THE EXTENTS OF CUTTING AND FILLING SHOWN ON DRAWINGS, THE SUPERINTENDENT RESERVES THE RIGHT TO ADJUST THE FINISHED SURFACE LEVELS AND EARTHWORKS EXTENTS THROUGH WRITTEN DIRECTION.
3. 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.
4. THE CONTRACTOR SHALL UNDERTAKE ALL EARTHWORKS IN ACCORDANCE WITH AS3798-2007 AND LOCAL AUTHORITY REQUIREMENTS. LEVEL 1 SUPERVISION IS REQUIRED.
5. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH THE SUBGRADE TEST RESULTS NECESSARY FOR ALL PAVEMENT DESIGN.
6. 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.
8. 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, KERB SUBSOIL DRAINS OR STORMWATER DRAINAGE STRUCTURES. CONTRACTOR TO DEMONSTRATE TO SUPERINTENDENT THAT SUITABLE CONNECTIONS HAVE BEEN PROVIDED FOR ALL WALLS.
10. 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<sub>50</sub> 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<sub>50</sub> SIZE.

**ROOFWATER NOTES**

1. THE GEOMETRIC CENTRE SHALL BE TAKEN AS THE SETOUT POINT FOR ALL STRUCTURES, UNLESS DETAILED OTHERWISE.
2. 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.
5. 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 1000 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 ADAPTOR 500mm FROM THE DOWNSTREAM BOUNDARY (UNLESS SHOWN ON A DIFFERENT ALIGNMENT). 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 1500 ROOFWATER PIPE CONNECTED TO PROPOSED STORMWATER GULLY PIT OR MANHOLE AT MINIMUM 1.0% GRADE WITH 1.0m COVER.

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *Thomas* Date: 02/12/22  
**SCOTT THOMAS RPEQ No. 04618**  
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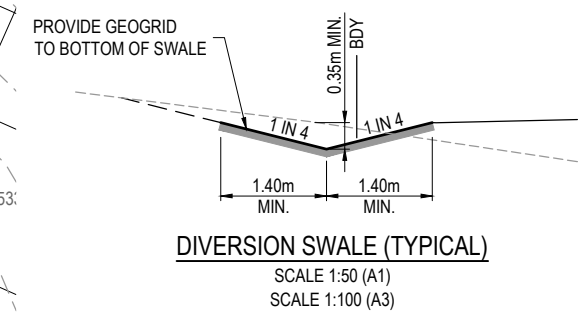
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B	01.11.22	CL	TP	AS CONSTRUCTED						
						<b>AS CONSTRUCTED</b>			COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. <b>21-0132</b>
					DESIGN	APPROVED <b>SCOTT THOMAS</b>	RPEQ 04618	ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744		DRAWING No. <b>101</b>
						<small>THE DESIGN HAS BEEN PREVIOUSLY CERTIFIED BY PEAKURBAN AND APPROVED BY URBAN UTILITIES</small>				REVISION <b>B</b>



**LEGEND**

- PROPOSED AREA OF WORKS
- - - 24.0 PROPOSED SURFACE CONTOUR
- - - 24.0 EXISTING SURFACE CONTOUR
- - - PROPOSED EARTHWORKS PAD SETBACK LINE
- PROPOSED CONCRETE SLEEPER RETAINING WALL
- EXISTING CONCRETE SLEEPER RETAINING WALL
- EXISTING ROCK RETAINING WALL
- PROPOSED STORMWATER DRAINAGE PIPE
- 24.60 PROPOSED FINISHED SURFACE LEVEL (FSL) (AFTER TOPSOIL PLACEMENT)
- 24.60 EXISTING SURFACE LEVEL (ESL)
- PROPOSED AREA OF CUT
- PROPOSED AREA OF FILL
- ▲ INDICATIVE DRIVEWAY LOCATIONS
- ZERO LOT BOUNDARY
- - - EXISTING STORMWATER DRAINAGE PIPE
- - - EXISTING SEWER MAIN
- - - EXISTING WATER MAIN
- - - EXISTING WATER CONDUIT
- - - EXISTING DRAIN

**NOTE:**  
 CONTRACTOR TO PREPARE 'CPSEC' CERTIFIED EROSION AND SEDIMENT CONTROL PLAN PRIOR TO COUNCIL PRE-START MEETING.



**NOTE:**  
 FINISHED SURFACE LEVELS IN ACCORDANCE WITH THE AS-CONSTRUCTED PLANS PREPARED BY SAUNDERS HAVILL GROUP.

**WARNING! - EXISTING SERVICES**  
 EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

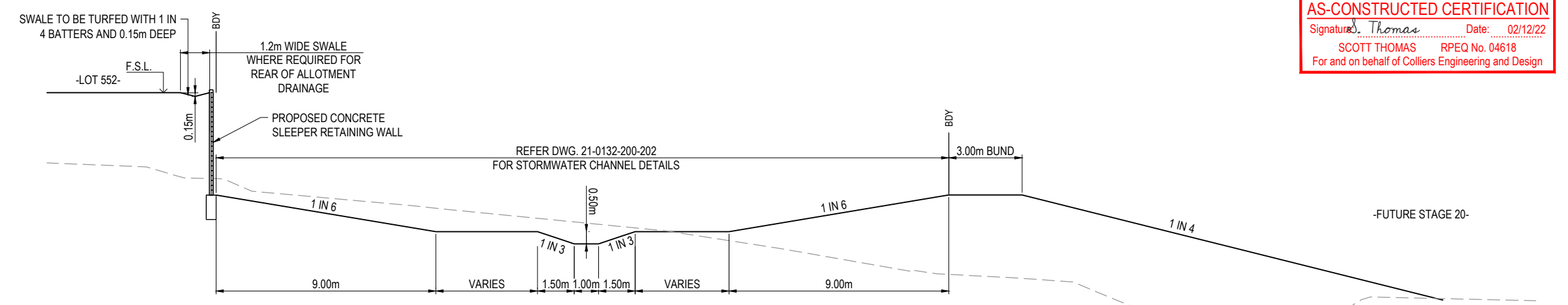
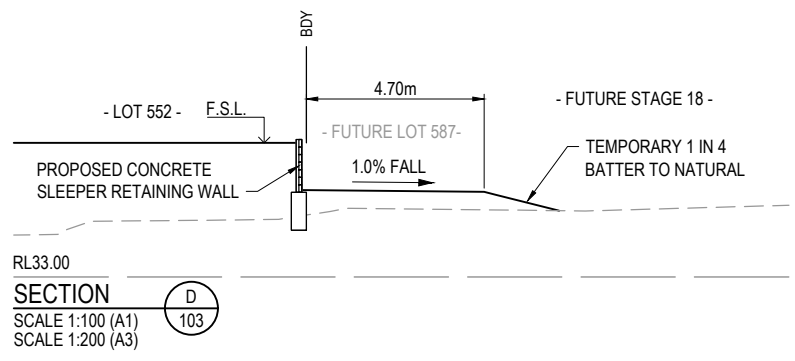
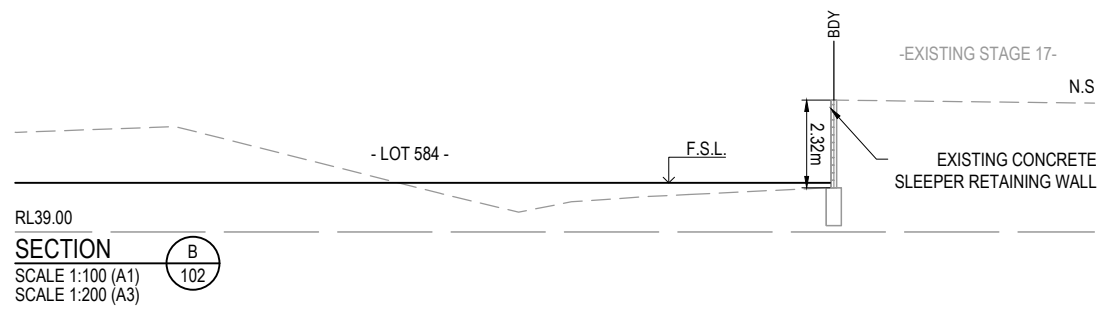
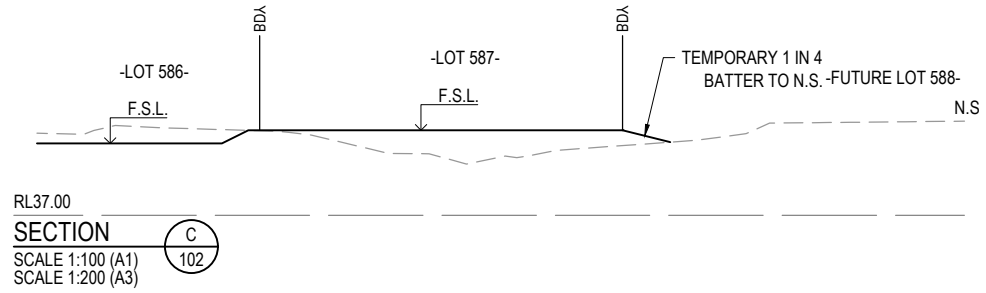
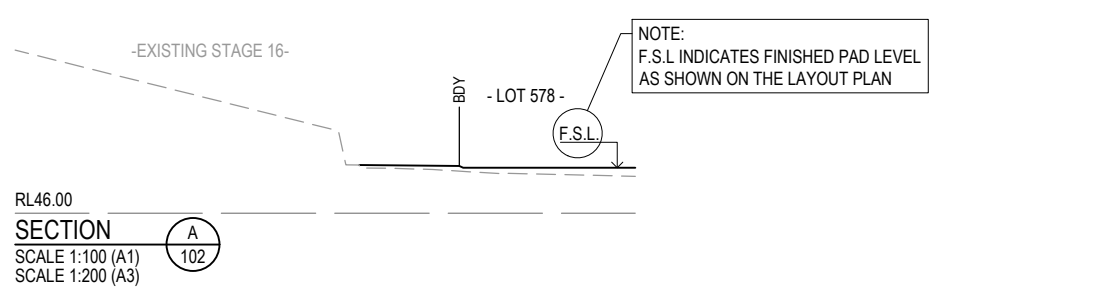
- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

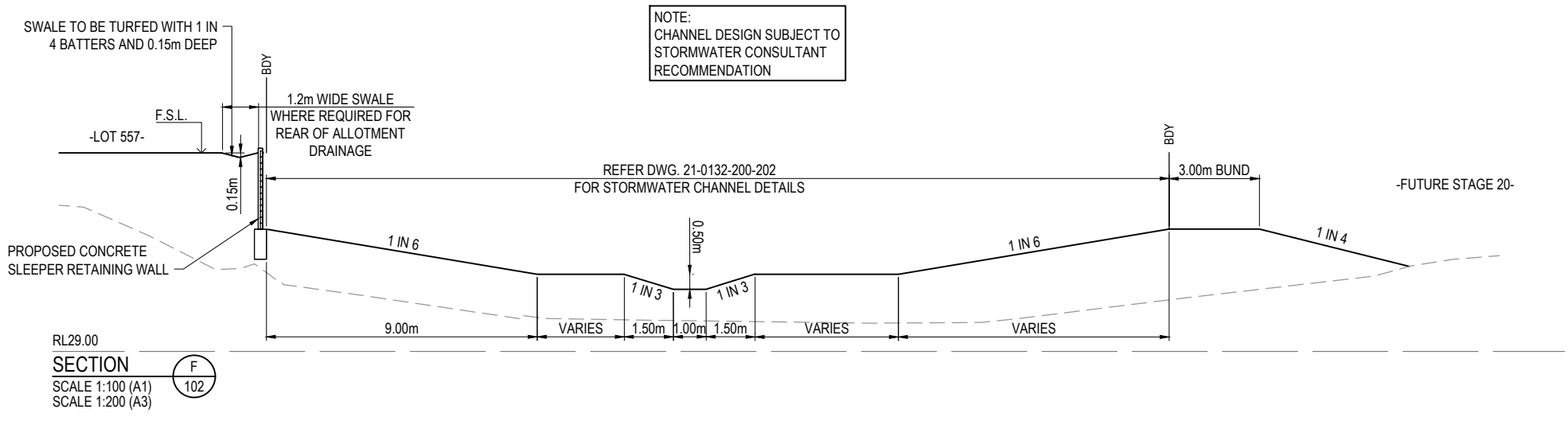
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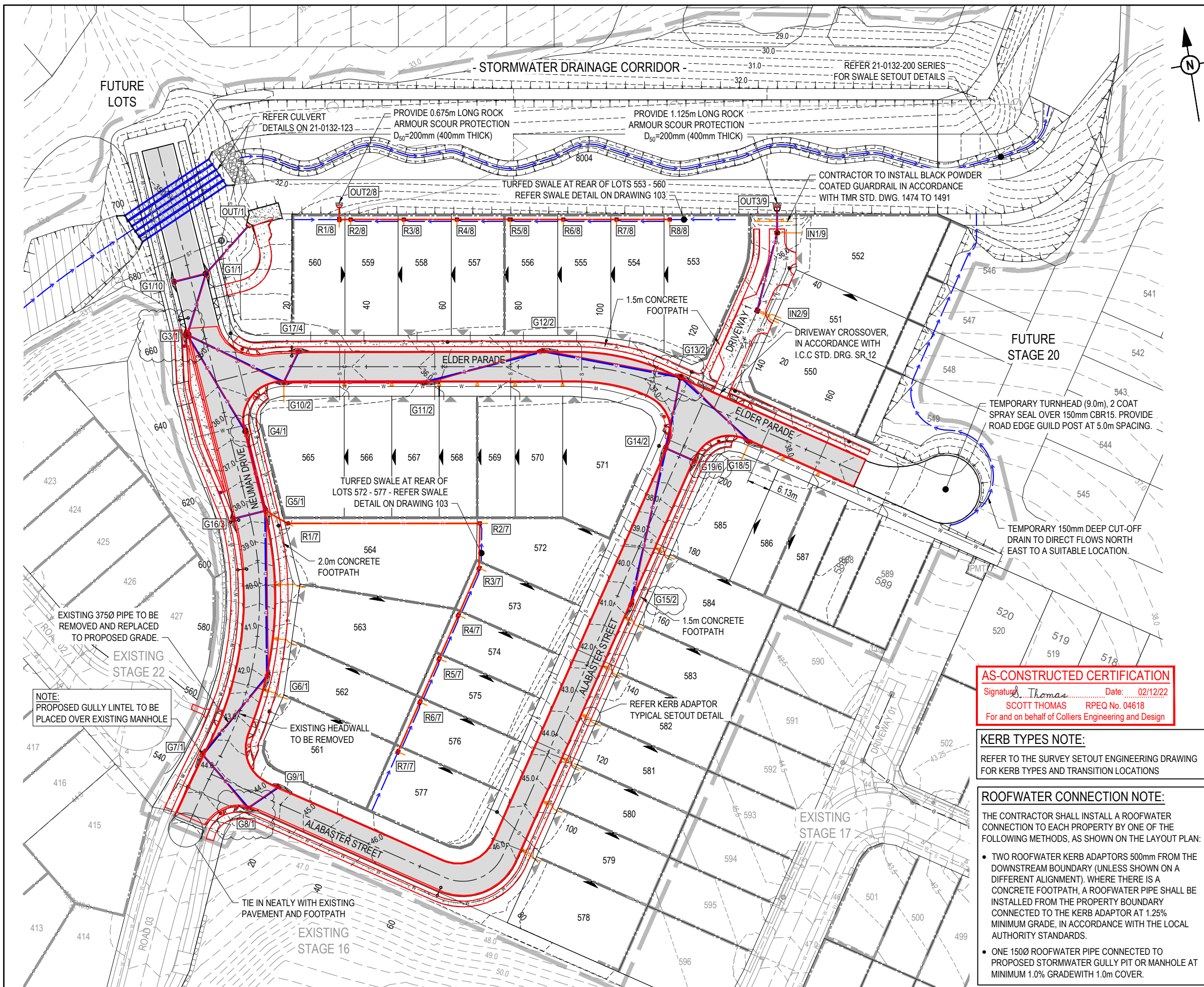




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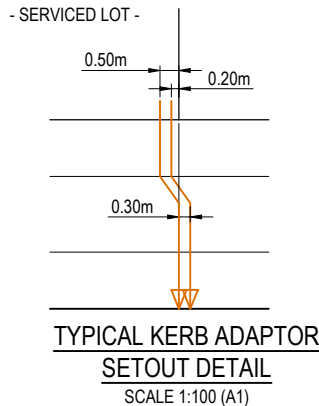


### LEGEND

- PROPOSED AREA OF WORKS
- PROPOSED ROAD CONTROL LINE
- EXISTING ROAD CROWN
- PROPOSED KERB INVERT LINE
- PROPOSED EDGE OF BITUMEN
- PROPOSED KERB TRANSITION LOCATION
- PROPOSED CONCRETE PATH AND PRAM RAMP
- PROPOSED NEW ROAD PAVEMENT
- INDICATIVE DRIVEWAY LOCATION
- ZERO LOT BOUNDARY
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED ROOFWATER DRAINAGE PIPE
- PROPOSED ROOFWATER KERB ADAPTOR
- PROPOSED ROOFWATER KERB ADAPTOR WITH PIPE CONNECTION TO ALLOTMENT
- PROPOSED SLEEPER RETAINING WALL
- EXISTING SLEEPER RETAINING WALL
- EXISTING ROCK RETAINING WALL
- PROPOSED SEWERAGE MAIN
- EXISTING SEWERAGE MAIN
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER CONDUIT
- EXISTING WATER CONDUIT
- EXISTING ELECTRICAL CABLE U/G

### ASCEN LEGEND

- STORMWATER DRAINAGE PIPE
- STORMWATER MANHOLE
- STORMWATER HEADWALL
- STORMWATER FIELD INLET
- BUS ZONE
- GIVE WAY
- ROAD/ STREET NAME



**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *S. Thomas* Date: 02/12/22  
**SCOTT THOMAS** RPEQ No. 04618  
 For and on behalf of Colliers Engineering and Design

**KERB TYPES NOTE:**  
 REFER TO THE SURVEY SETOUT ENGINEERING DRAWING FOR KERB TYPES AND TRANSITION LOCATIONS

**ROOFWATER CONNECTION NOTE:**  
 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 500mm FROM THE DOWNSTREAM BOUNDARY (UNLESS SHOWN ON A DIFFERENT ALIGNMENT). 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 THE LOCAL AUTHORITY STANDARDS.
- ONE 150Ø ROOFWATER PIPE CONNECTED TO PROPOSED STORMWATER GULLY PIT OR MANHOLE AT MINIMUM 1.0% GRADE WITH 1.0m COVER.

**WARNING! - EXISTING SERVICES**  
 EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	17.01.22	CL	CL	ISSUED FOR CONSTRUCTION
B	08.02.22	CL	CL	SWD STRUCTURE LABELS AMENDED, G8/1 UPDATED, G3/1, G4/1, G13/2 SHOW MANHOLE
C	01.12.22	CL	TP	AS CONSTRUCTED

**AS CONSTRUCTED**

DESIGN APPROVED  
**SCOTT THOMAS** RPEQ 04618

THE DESIGN HAS BEEN PREVIOUSLY CERTIFIED BY PEAKURBAN AND APPROVED BY URBAN UTILITIES



SCALE

1:100 1 0 1 2 3 4 5 A1  
 1:200 1 0 1 2 3 4 5 A3  
 1:500 10 5 0 10 20 A1  
 1:1000 10 5 0 10 20 A3

CLIENT  
**CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED**

ASSOCIATED CONSULTANT  
 SAUNDERS HAVILL GROUP  
 PH: 1300 123 744

PROJECT NAME  
**WOODLINKS VILLAGE - STAGE 19**

COLLINGWOOD DRIVE  
 COLLINGWOOD PARK

DRAWING TITLE  
**ROADWORKS AND DRAINAGE LAYOUT PLAN**

PROJECT No. **21-0132**  
 DRAWING No. **105**  
 REVISION **C**



**LEGEND**

	PROPOSED AREA OF WORKS/STAGE BOUNDARY
	PROPOSED NEW ROAD PAVEMENT
	PROPOSED ROAD CONTROL LINE
	PROPOSED MOUNTABLE KERB AND CHANNEL TYPE M1
	PROPOSED BARRIER KERB AND CHANNEL TYPE B1
	PROPOSED SEMI-MOUNTABLE INVERT (450mm)
	PROPOSED KERB TRANSITION LOCATION
	PROPOSED EDGE OF BITUMEN
	PROPOSED CONCRETE PATH AND PRAM RAMP
	INDICATIVE DRIVEWAY LOCATION
	ZERO LOT BOUNDARY

**AS CONSTRUCTED LEGEND**

	KERB INVERT
	EMT

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: Thomas Date: 02/12/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Colliers Engineering and Design

**CONTROL LINE SETOUT - NEUMAN DRIVE**

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	300.000	6098.763	3895.310	43.451	53°01'43.85"			
TC	322.686	6116.888	3908.953	44.046	53°01'43.85"			
IP 2	374.678	6159.388	3940.946	46.622		R = -200.000	103.984	29°47'21.25"
CT	426.670	6180.378	3989.826	48.583	23°14'22.61"			
TC	499.590	6209.150	4056.829	46.454	23°14'22.61"			
IP 3	523.161	6218.494	4078.588	45.259		R = 200.000	47.142	13°30'18.79"
IP 4	546.732	6232.661	4097.564	43.824				
IP 5	546.732	6232.661	4097.564	43.824				
IP 6	579.518	6253.192	4125.063	41.310		R = -90.000	65.573	41°44'41.37"
CT	612.305	6250.201	4159.251	38.327	355°00'00.03"			
TC	718.725	6240.926	4265.266	35.457	355°00'00.03"			
IP 7	730.963	6239.854	4277.519	35.928		R = 100.000	24.475	14°01'23.30"
CT	743.200	6241.783	4289.665	36.598	9°01'23.33"			
IP 8	857.895	6259.771	4402.941		9°01'23.33"			

**CONTROL LINE SETOUT - DRIVEWAY 01**

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	6375.318	4167.603	37.404	32°53'01.07"			
TC	35.912	6394.816	4197.760	36.291	32°53'01.07"		M	
IP 2	41.117	6397.684	4202.196	36.083		R = -25.000	10.411	23°51'37.07"
CT	46.323	6398.512	4207.413	35.874	9°01'24.00"			
IP 3	50.677	6399.195	4211.714	35.700	9°01'24.00"			

**CONTROL LINE SETOUT - ALABASTER STREET**

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	6229.583	4093.326		122°53'01.07"			
TC	67.307	6286.106	4056.783	46.414	122°53'01.07"			
IP 2	76.340	6295.764	4050.539	46.339		R = -11.500	18.064	90°00'00.00"
CT	85.372	6302.008	4060.197	46.123	32°53'01.07"			
IP 3	215.372	6372.589	4169.367	37.328	32°53'01.07"			

**CONTROL LINE SETOUT - ELDER PARADE**

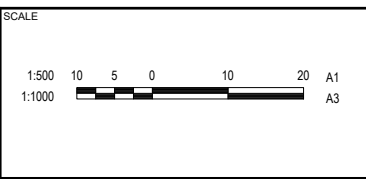
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	6247.052	4195.251	35.425	85°00'00.00"			
TC	14.250	6261.247	4196.493	35.154	85°00'00.00"			
IP 2	15.963	6262.963	4196.643	35.138		R = 14.000	3.427	14°01'24.00"
CT	17.677	6264.663	4196.373	35.131	99°01'24.00"			
TC	94.850	6340.881	4184.270	36.743	99°01'24.00"			
IP 3	106.302	6352.358	4182.447	36.892		R = 55.000	22.904	23°51'37.07"
CT	117.754	6362.116	4176.138	37.072	122°53'01.07"			
IP 4	175.474	6410.589	4144.800	38.696	122°53'01.07"			

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	25.08.21	CL	RR	ORIGINAL ISSUE
2	01.11.22	CL	TP	AS CONSTRUCTED

**AS CONSTRUCTED**

DESIGN APPROVED  
 SCOTT THOMAS RPEQ 04618

THE DESIGN HAS BEEN PREVIOUSLY CERTIFIED BY PEAKURBAN AND APPROVED BY URBAN UTILITIES



CLIENT  
**CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED**

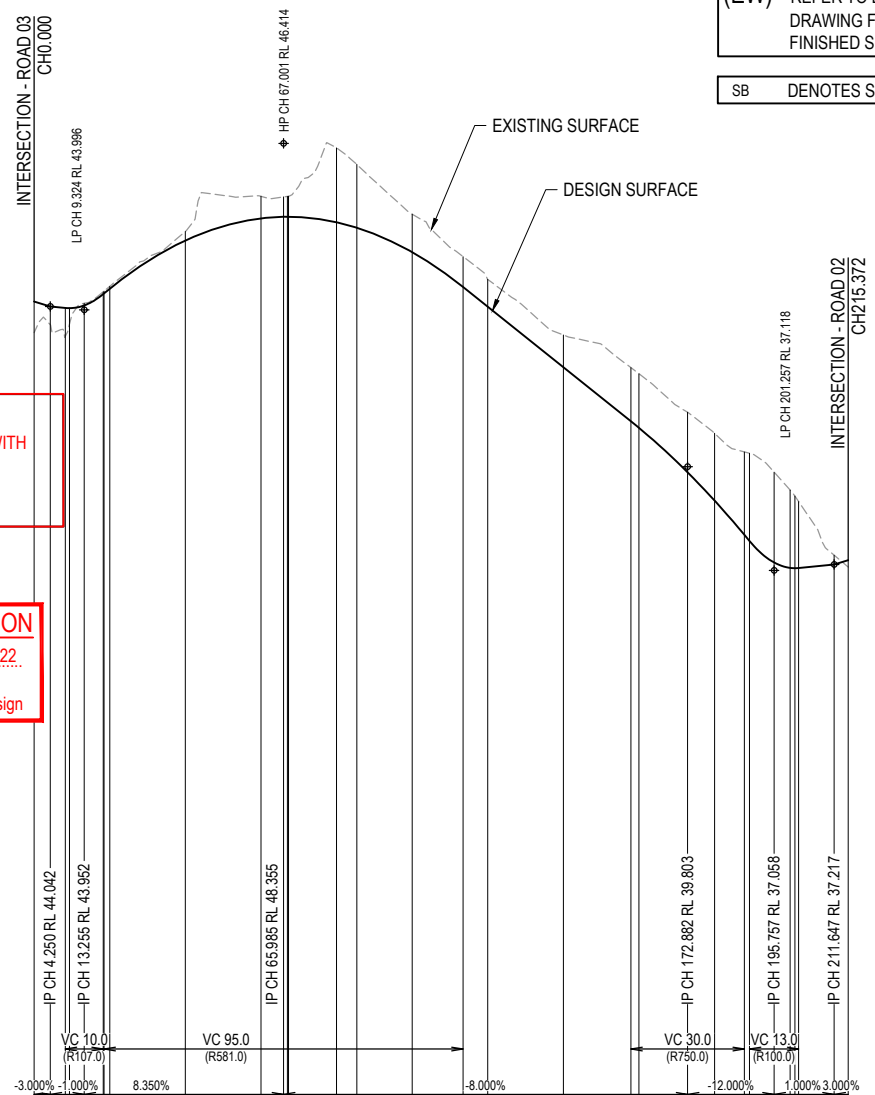
ASSOCIATED CONSULTANT  
 SAUNDERS HAVILL GROUP  
 PH: 1300 123 744

PROJECT NAME  
**WOODLINKS VILLAGE - STAGE 19**

COLLINGWOOD DRIVE  
 COLLINGWOOD PARK

DRAWING TITLE  
**SURVEY SETOUT AND KERB TYPE LAYOUT PLAN**

PROJECT No.	DRAWING No.	REVISION
21-0132	106	2



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

SB DENOTES SETBACK LINE

**NOTE:**  
FINISHED SURFACE LEVELS IN ACCORDANCE WITH THE AS-CONSTRUCTED PLANS PREPARED BY SAUNDERS HAVILL GROUP.

**AS-CONSTRUCTED CERTIFICATION**  
Signature: *Scott Thomas* Date: 02/12/22  
SCOTT THOMAS RPEQ No. 04618  
For and on behalf of Colliers Engineering and Design

DATUM RL 22.0

	0.000	4.250	8.255	13.255	18.255	20.000	40.000	60.000	65.985	67.001	67.307	80.000	85.372	100.000	113.485	120.000	140.000	157.882	160.000	172.882	180.000	187.882	188.257	195.757	200.000	201.257	202.257	211.647	215.372		
CUT (-) / FILL	0.821	0.484	0.744	0.430	-0.056	-0.060	-0.240	-0.584	-0.524	-0.538	-0.542	-1.968	-1.674	-1.006	-0.802	-0.725	-0.853	-1.420	-1.433	-1.591	-1.780	-2.190	-2.319	-2.390	-2.059	-1.910	-1.758	-0.245	0.179		
LHS LIP LEVEL																															
RHS LIP LEVEL																															
DESIGN SURFACE	44.169	44.042	44.002	43.996	44.068	44.263	44.406	44.401	44.276	44.282	44.276	44.406	44.401	44.406	44.443	44.033	42.433	41.003	40.830	39.653	38.807	37.891	37.726	37.158	37.014	37.006	37.006	37.118	37.118	37.228	
EXISTING SURFACE	43.348	43.558	43.258	43.566	44.124	44.369	44.429	44.388	44.453	44.406	44.406	44.513	44.401	44.406	44.443	44.033	42.433	42.423	42.263	41.243	40.687	39.807	38.003	37.688	37.269	37.126	37.118	37.118	37.118	37.149	37.228
CHAINAGES	0.000	4.250	8.255	13.255	18.255	20.000	40.000	60.000	65.985	67.001	67.307	80.000	85.372	100.000	113.485	120.000	140.000	157.882	160.000	172.882	180.000	187.882	188.257	195.757	200.000	201.257	202.257	211.647	215.372		
HORIZONTAL CURVES																	R-11.500														

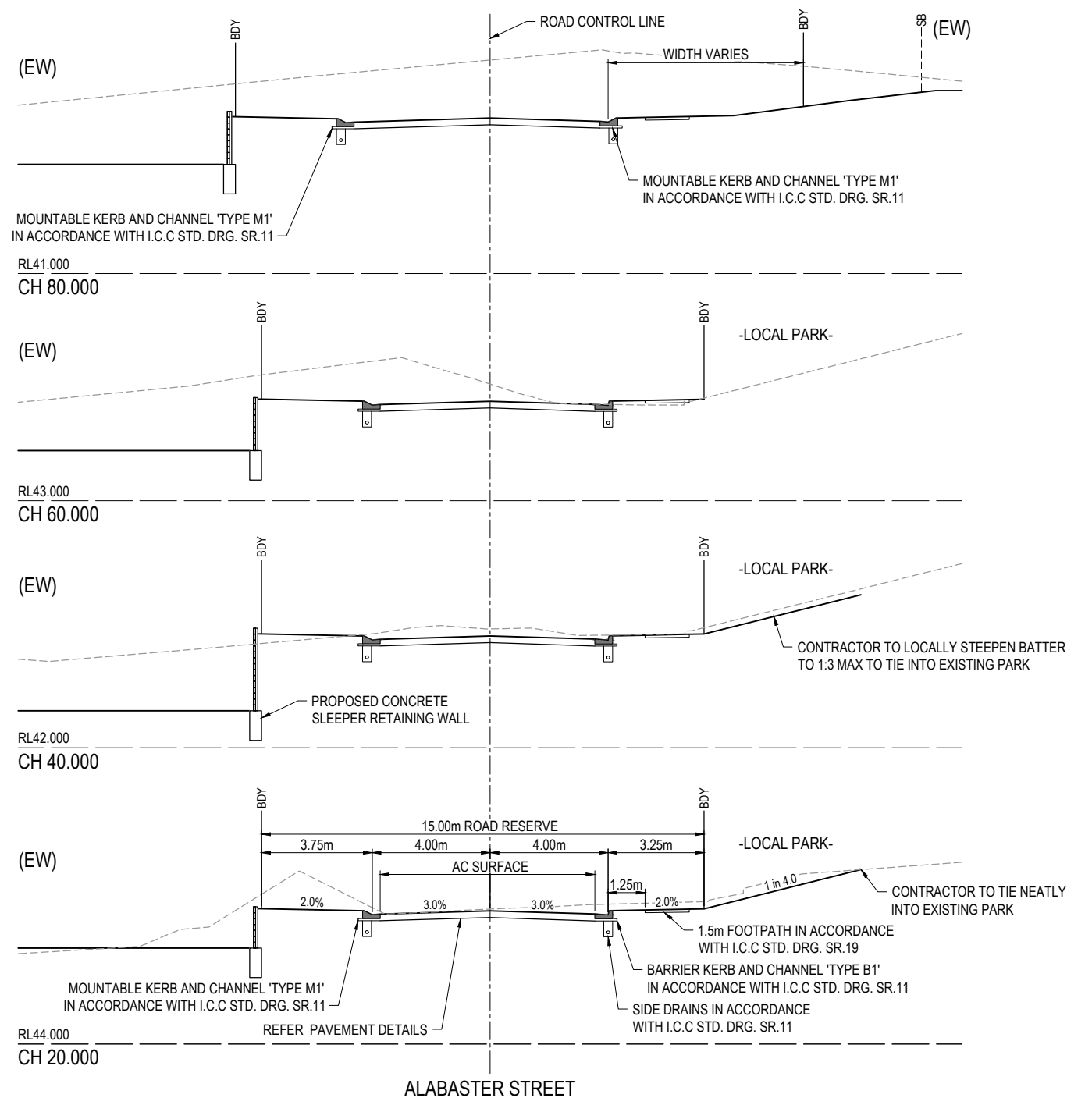
# REFER INTERSECTION DETAILS PLAN FOR KERB RETURN LONGITUDINAL SECTIONS

ALABASTER STREET

ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)								
ROAD	ROAD CLASSIFICATION	DESIGN ESAS	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ALABASTER STREET	ACCESS STREET	1.0 x 10 <sup>5</sup>	3	35mm	125mm	100mm	160mm	420mm

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

AS-CONSTRUCTED PAVEMENT DETAILS									
LOCATION	SECTION	ROAD CLASS	DESIGN CBR	TOTAL PAVEMENT DEPTH	A C	BASE COURSE TYPE (2.1)	UPPER SUB-BASE TYPE (2.3)	LOWER SUB-BASE TYPE (2.5)	SUBGRADE TREATMENT
ALABASTER ST	CH20 - CH220	CLASS A1	CBR 8	265mm	35	125	105	-	-



ALABASTER STREET

<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>ISSUED FOR CONSTRUCTION</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>17.01.22</td> <td>CL</td> <td>CL</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> <tr> <td>B</td> <td>01.11.22</td> <td>CL</td> <td>TP</td> <td>AS CONSTRUCTED</td> </tr> </tbody> </table>	REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	A	17.01.22	CL	CL	ISSUED FOR CONSTRUCTION	B	01.11.22	CL	TP	AS CONSTRUCTED	<table border="1"> <thead> <tr> <th>REVISION DETAILS</th> <th>DRAWN</th> <th>STATUS</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td><b>AS CONSTRUCTED</b></td> </tr> </tbody> </table>	REVISION DETAILS	DRAWN	STATUS			<b>AS CONSTRUCTED</b>		<table border="1"> <thead> <tr> <th>SCALE</th> <th>A1</th> <th>A3</th> </tr> </thead> <tbody> <tr> <td>1:100</td> <td>0 1 2 3 4 5</td> <td></td> </tr> <tr> <td>1:200</td> <td>0 1 2 3 4 5</td> <td></td> </tr> <tr> <td>1:1000</td> <td>0 10 20 30 40 50</td> <td></td> </tr> <tr> <td>1:2000</td> <td>0 10 20 30 40 50</td> <td></td> </tr> <tr> <td>1:100</td> <td>0 1 2 3 4 5</td> <td></td> </tr> <tr> <td>1:200</td> <td>0 1 2 3 4 5</td> <td></td> </tr> </tbody> </table>	SCALE	A1	A3	1:100	0 1 2 3 4 5		1:200	0 1 2 3 4 5		1:1000	0 10 20 30 40 50		1:2000	0 10 20 30 40 50		1:100	0 1 2 3 4 5		1:200	0 1 2 3 4 5		<table border="1"> <thead> <tr> <th>CLIENT</th> <th>PROJECT NAME</th> <th>DRAWING TITLE</th> </tr> </thead> <tbody> <tr> <td>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</td> <td>WOODLINKS VILLAGE - STAGE 19</td> <td>ALABASTER STREET LONGITUDINAL SECTION AND CROSS SECTIONS</td> </tr> </tbody> </table>	CLIENT	PROJECT NAME	DRAWING TITLE	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 19	ALABASTER STREET LONGITUDINAL SECTION AND CROSS SECTIONS	<table border="1"> <thead> <tr> <th>ASSOCIATED CONSULTANT</th> <th>PROJECT No.</th> <th>DRAWING No.</th> <th>REVISION</th> </tr> </thead> <tbody> <tr> <td>SAUNDERS HAVILL GROUP PH: 1300 123 744</td> <td>21-0132</td> <td>107</td> <td>B</td> </tr> </tbody> </table>	ASSOCIATED CONSULTANT	PROJECT No.	DRAWING No.	REVISION	SAUNDERS HAVILL GROUP PH: 1300 123 744	21-0132	107	B
REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION																																																									
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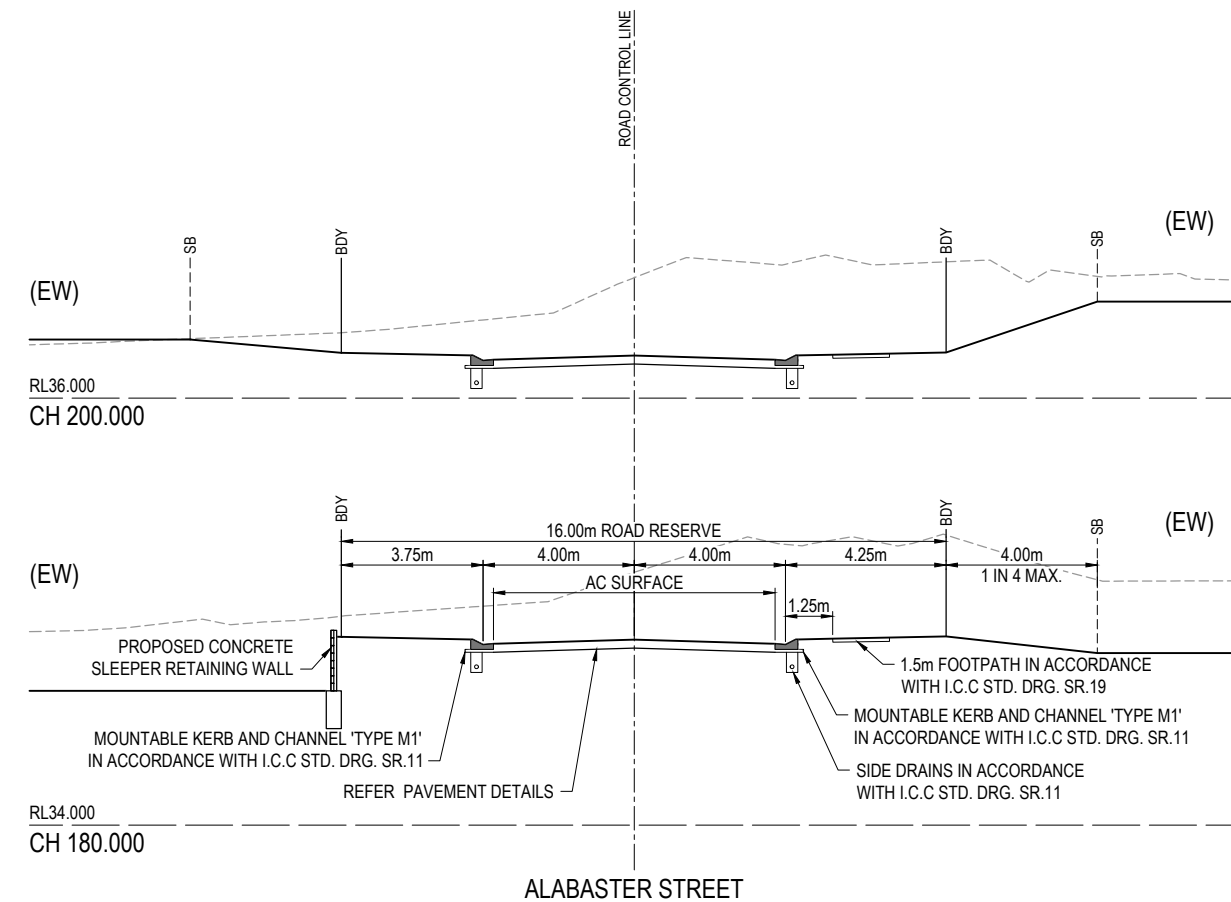
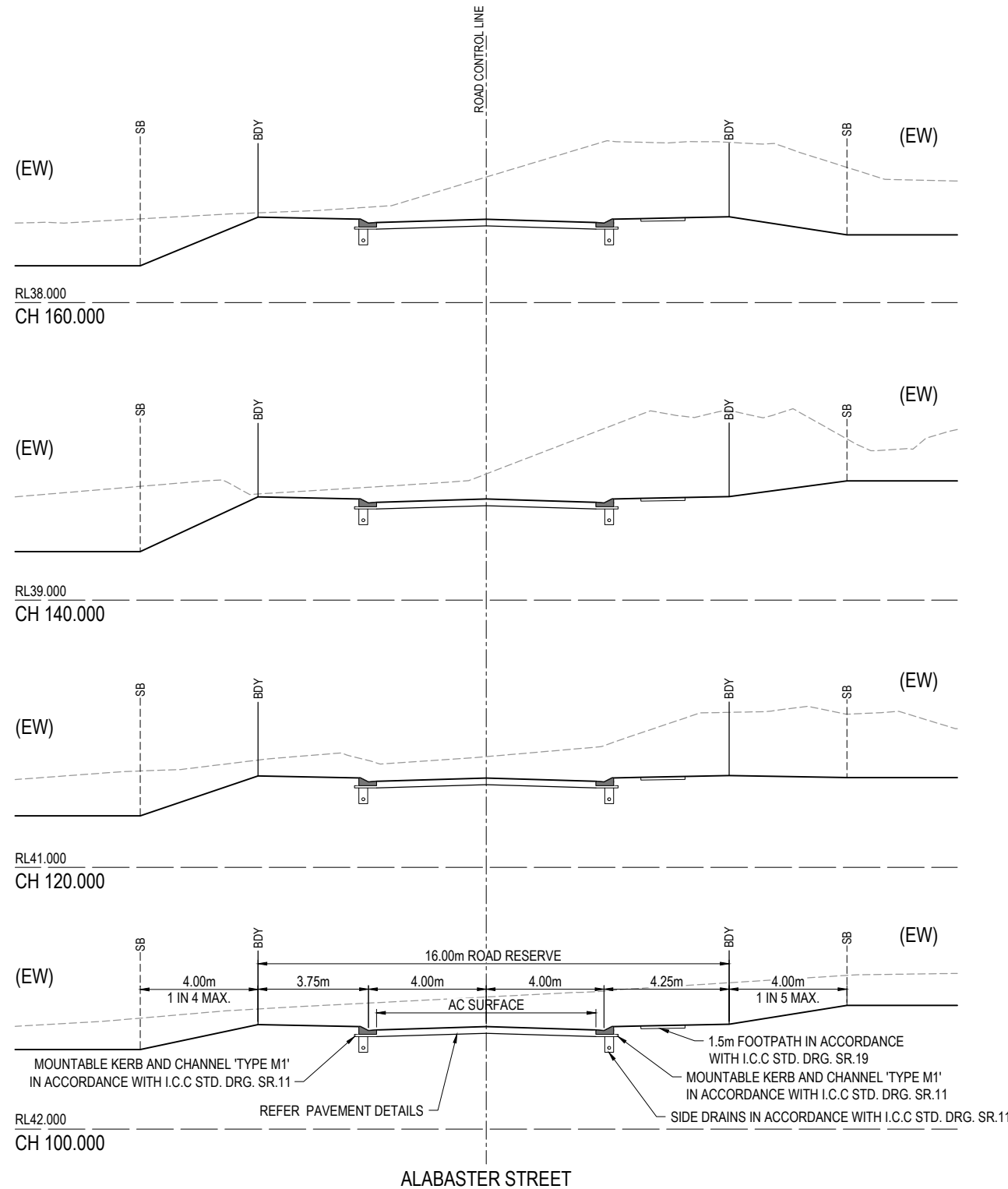


(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS

SB DENOTES SETBACK LINE

**AS-CONSTRUCTED CERTIFICATION**

Signature: *Scott Thomas* Date: 02/12/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Colliers Engineering and Design



REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS
A	17.01.22	CL	CL	ISSUED FOR CONSTRUCTION			
B	01.11.22	CL	TP	AS CONSTRUCTED			

DESIGN	APPROVED	SCOTT THOMAS	RPEQ 04618
THE DESIGN HAS BEEN PREVIOUSLY CERTIFIED BY PEAKURBAN AND APPROVED BY URBAN UTILITIES			

SCALE	1:100 1:200	1 0 1 2 3 4 5 A1 A3
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CLIENT	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED
ASSOCIATED CONSULTANT	SAUNDERS HAVILL GROUP PH: 1300 123 744

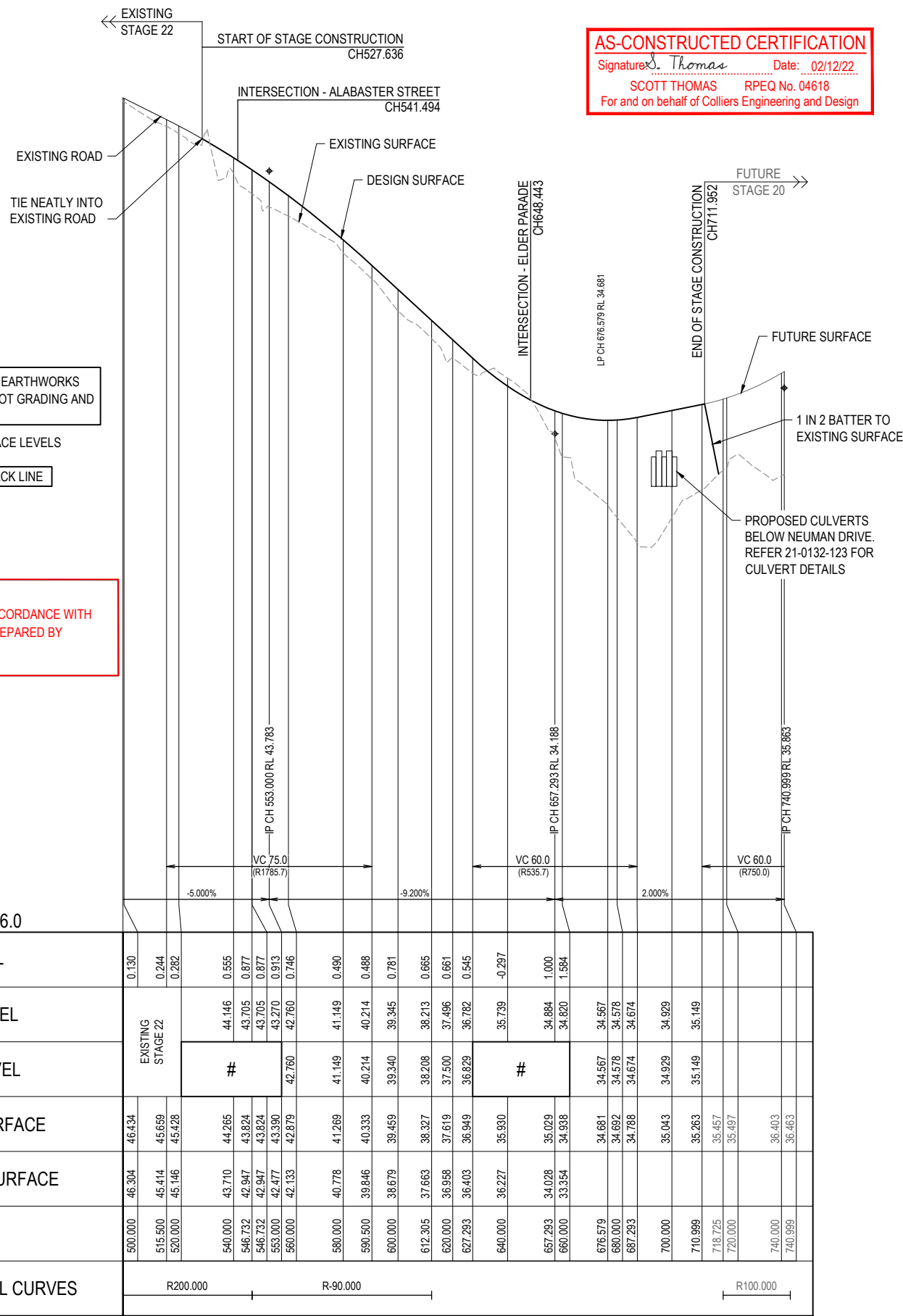
  

PROJECT NAME	WOODLINKS VILLAGE - STAGE 19
COLLINGWOOD DRIVE COLLINGWOOD PARK	

DRAWING TITLE	ALABASTER STREET CROSS SECTIONS
PROJECT No.	21-0132
DRAWING No.	108
REVISION	B





**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *Scott Thomas* Date: 02/12/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Colliers Engineering and Design

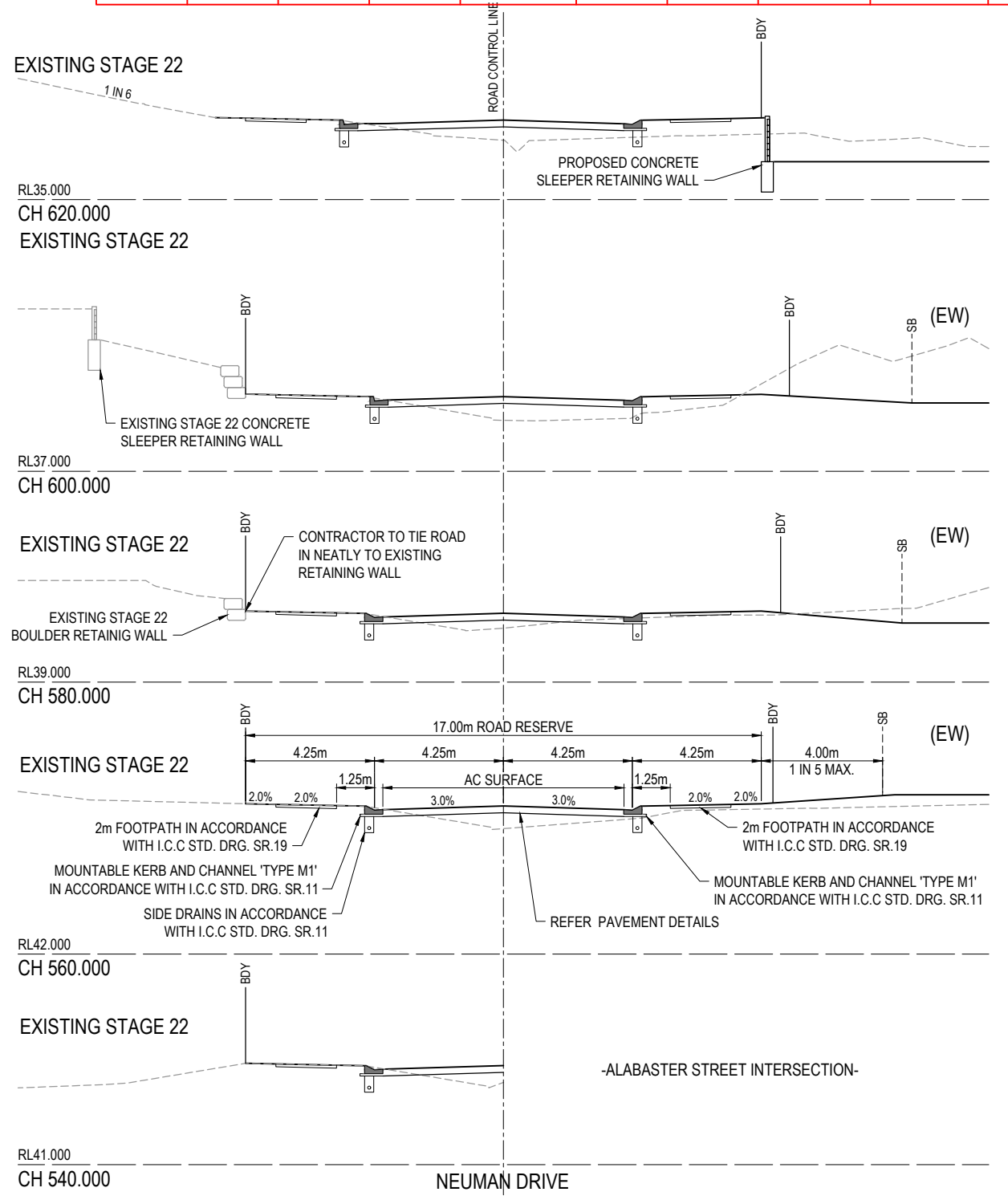
**ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)**

ROAD	ROAD CLASSIFICATION	DESIGN ESAS	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
NEUMAN DRIVE	COLLECTOR	1.0 x 10 <sup>6</sup>	3	50mm	125mm	100mm	250mm	525mm

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

**AS-CONSTRUCTED PAVEMENT DETAILS**

LOCATION	SECTION	ROAD CLASS	DESIGN CBR	TOTAL PAVEMENT DEPTH	A C	BASE COURSE TYPE (2.1)	UPPER SUB-BASE TYPE (2.3)	LOWER SUB-BASE TYPE (2.5)	SUBGRADE TREATMENT
NEUMAN DR	CH528 - CH660	CLASS B	CBR 8	285mm	35	125	125	-	-

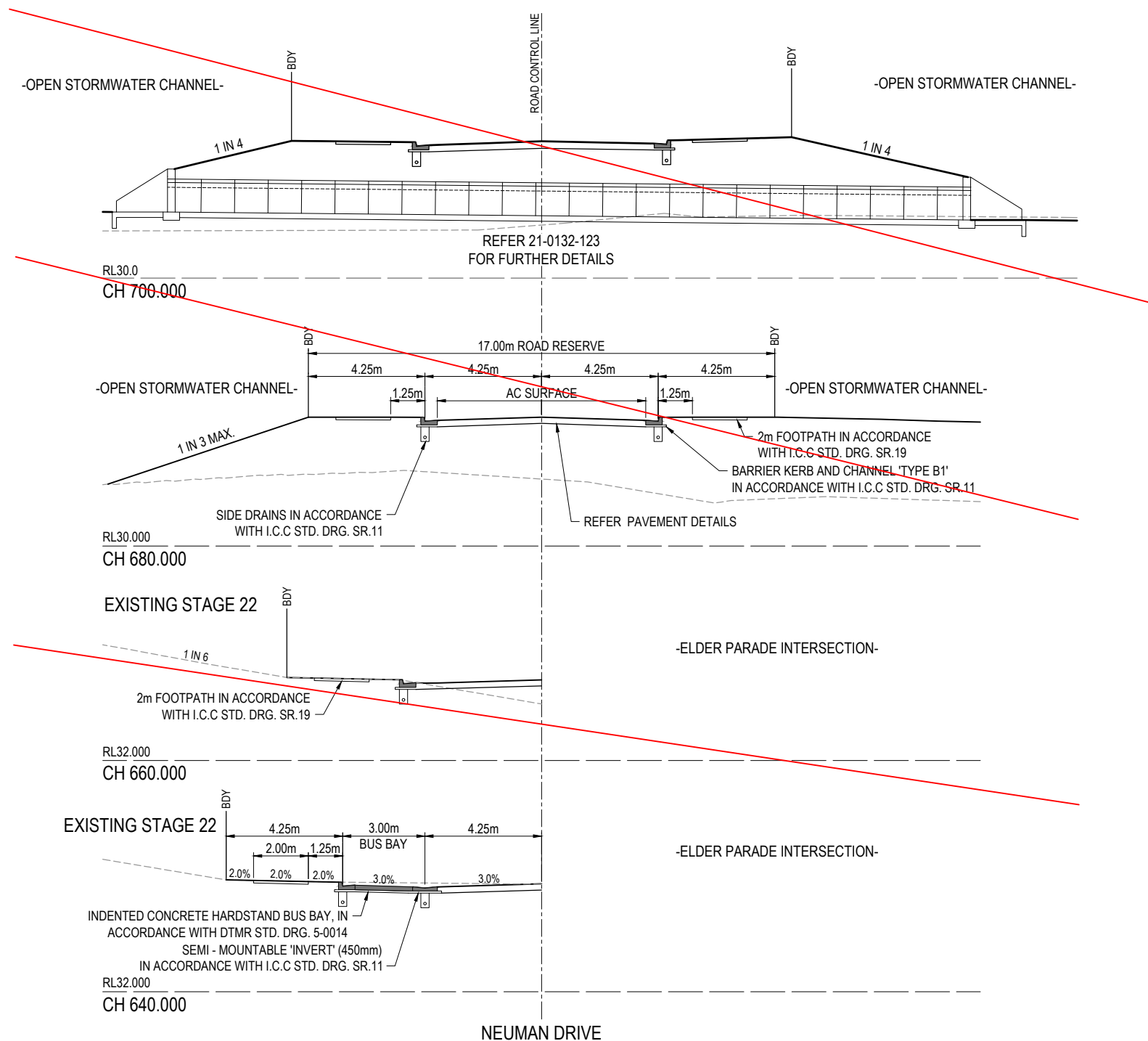


REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	17.01.22	CL	CL	AS CONSTRUCTED			AS CONSTRUCTED	1:100 1:200 1:1000 1:2000 1:100 1:200	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 19	NEUMAN DRIVE LONGITUDINAL SECTION
B	01.11.22	CL	TP	AS CONSTRUCTED					ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. 21-0132 DRAWING No. 109 REVISION B

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

**NOTE:**  
THESE WORKS WERE DESCOPE FROM THE STAGE 19 PACKAGE

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *Thomas* Date: 02/12/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Colliers Engineering and Design



REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	17.01.22	CL	CL	ISSUED FOR CONSTRUCTION			1:100	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 19	NEUMAN DRIVE CROSS SECTIONS
B	01.11.22	CL	TP	AS CONSTRUCTED		<b>AS CONSTRUCTED</b>	1:200	SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	
APPROVED SCOTT THOMAS RPEQ 04618 THE DESIGN HAS BEEN PREVIOUSLY CERTIFIED BY PEAKURBAN AND APPROVED BY URBAN UTILITIES									PROJECT No. 21-0132 DRAWING No. 110 REVISION B	

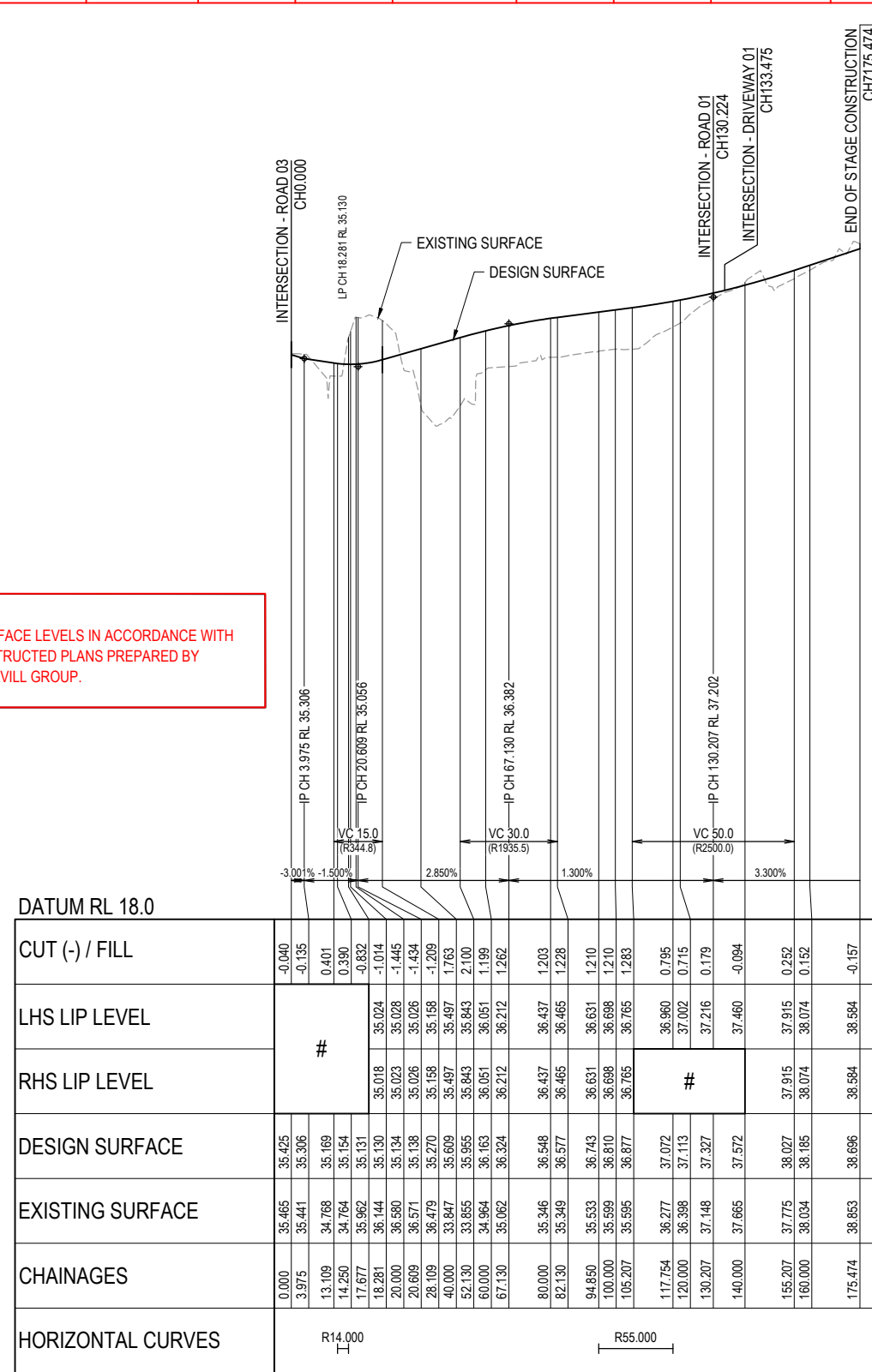
AS-CONSTRUCTED PAVEMENT DETAILS									
LOCATION	SECTION	ROAD CLASS	DESIGN CBR	TOTAL PAVEMENT DEPTH	A C	BASE COURSE TYPE (2.1)	UPPER SUB-BASE TYPE (2.3)	LOWER SUB-BASE TYPE (2.5)	SUBGRADE TREATMENT
ELDER PDE	CH0.00 - CH176	CLASS A1	CBR 8	265mm	35	125	105	-	-

ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)								
ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ELDER PARADE	ACCESS STREET	1.0 x 10 <sup>5</sup>	3	35mm	125mm	100mm	160mm	420mm

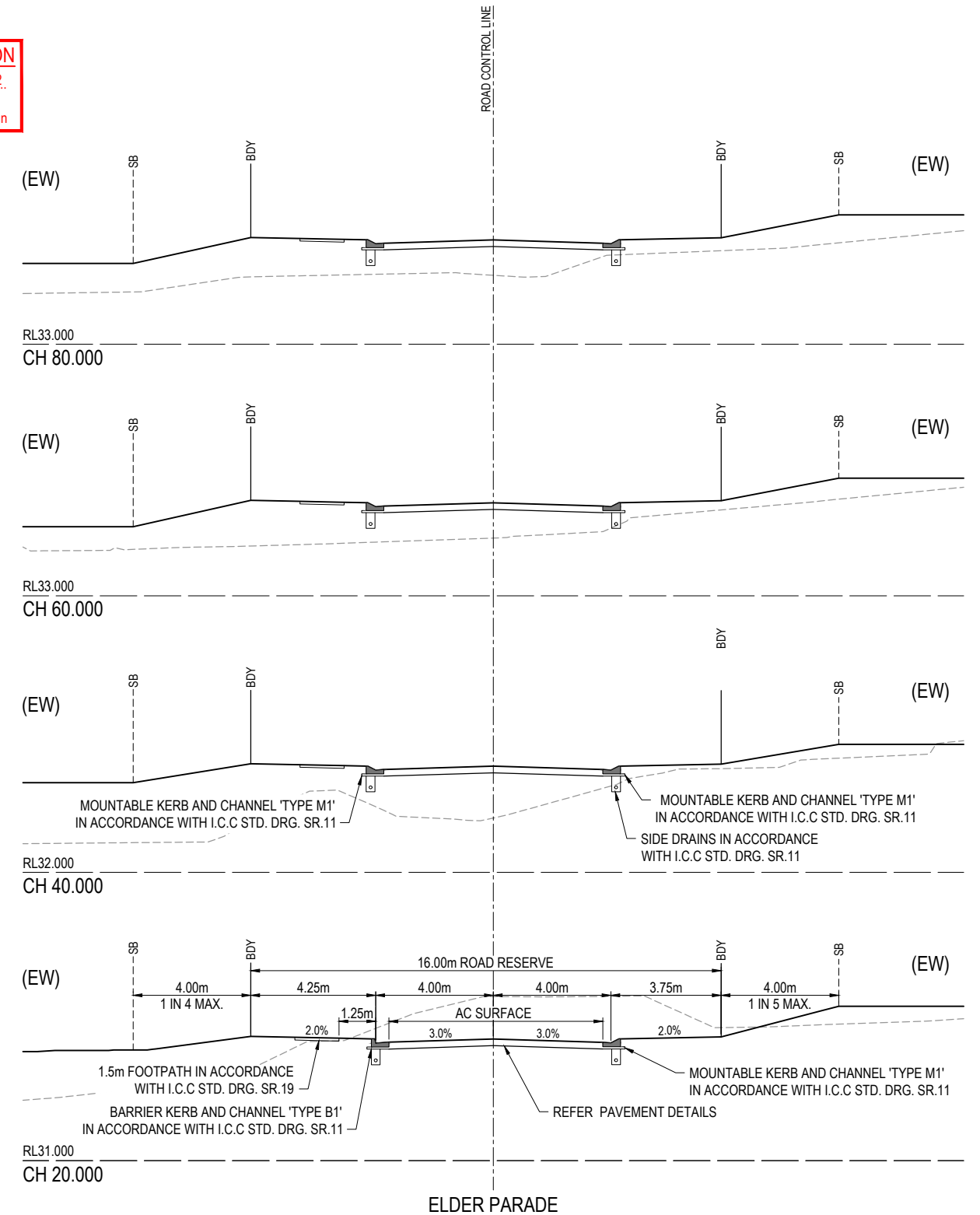
NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN

NOTE: FINISHED SURFACE LEVELS IN ACCORDANCE WITH THE AS-CONSTRUCTED PLANS PREPARED BY SAUNDERS HAVILL GROUP.

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *Scott Thomas* Date: 02/12/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Colliers Engineering and Design



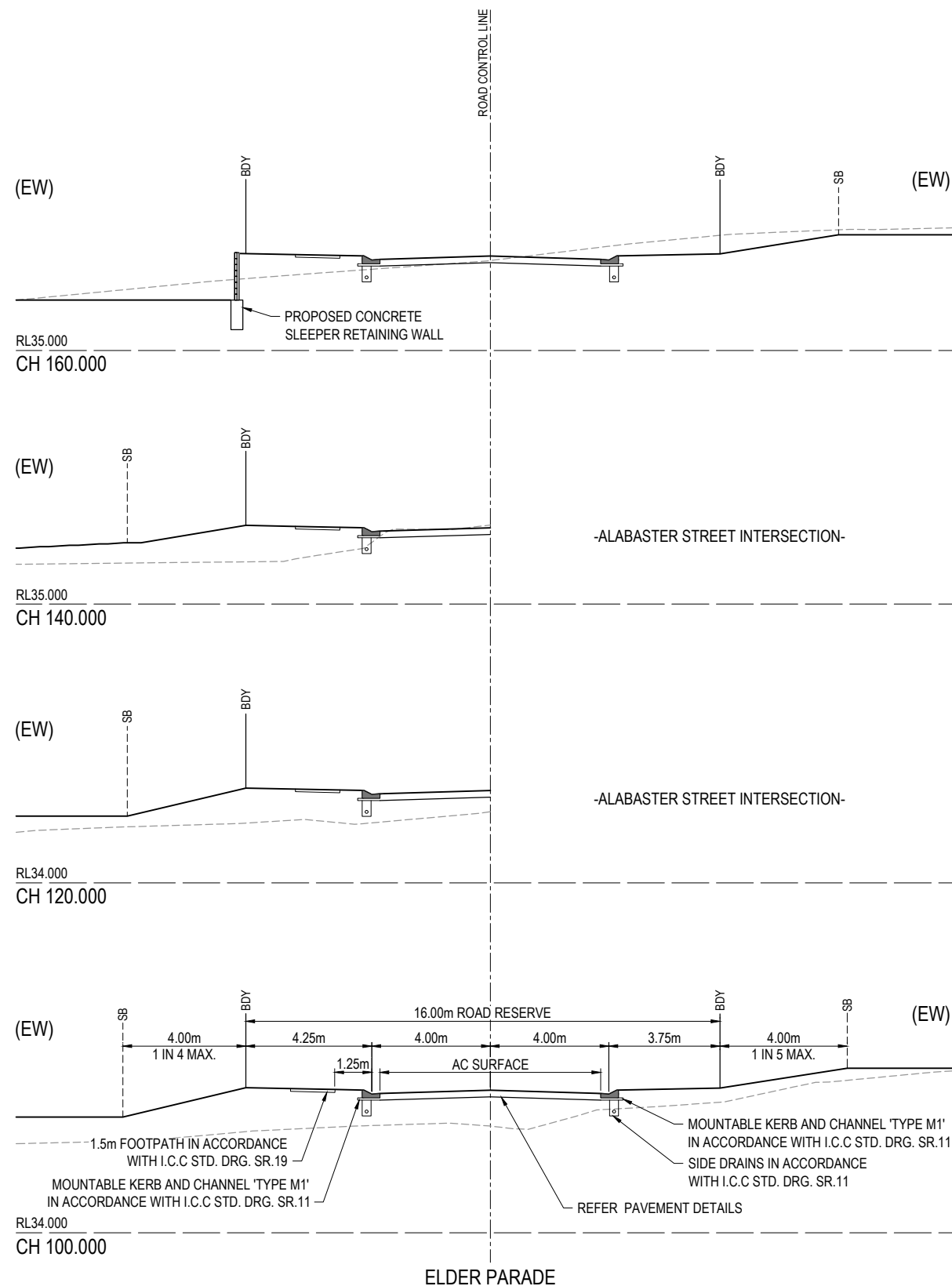
# REFER INTERSECTION DETAILS PLAN FOR KERB RETURN LONGITUDINAL SECTIONS  
 ELDER PARADE



<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>ISSUED FOR CONSTRUCTION</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>17.01.22</td> <td>CL</td> <td>CL</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> <tr> <td>B</td> <td>01.11.22</td> <td>CL</td> <td>TP</td> <td>AS CONSTRUCTED</td> </tr> </tbody> </table>	REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	A	17.01.22	CL	CL	ISSUED FOR CONSTRUCTION	B	01.11.22	CL	TP	AS CONSTRUCTED	<table border="1"> <thead> <tr> <th>REVISION DETAILS</th> <th>DRAWN</th> <th>STATUS</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td><b>AS CONSTRUCTED</b></td> </tr> </tbody> </table>	REVISION DETAILS	DRAWN	STATUS			<b>AS CONSTRUCTED</b>		<table border="1"> <thead> <tr> <th>SCALE</th> </tr> </thead> <tbody> <tr> <td>1:1000 10 0 10 20 30 40 50 A1</td> </tr> <tr> <td>1:2000 HORIZONTAL A3</td> </tr> <tr> <td>1:100 2 1 0 2 4 A1</td> </tr> <tr> <td>1:200 VERTICAL A3</td> </tr> </tbody> </table>	SCALE	1:1000 10 0 10 20 30 40 50 A1	1:2000 HORIZONTAL A3	1:100 2 1 0 2 4 A1	1:200 VERTICAL A3	<table border="1"> <thead> <tr> <th>CLIENT</th> <th>PROJECT NAME</th> </tr> </thead> <tbody> <tr> <td><b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b></td> <td><b>WOODLINKS VILLAGE - STAGE 19</b></td> </tr> </tbody> </table>	CLIENT	PROJECT NAME	<b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b>	<b>WOODLINKS VILLAGE - STAGE 19</b>	<table border="1"> <thead> <tr> <th>DRAWING TITLE</th> </tr> </thead> <tbody> <tr> <td><b>ELDER PARADE LONGITUDINAL SECTION</b></td> </tr> </tbody> </table>	DRAWING TITLE	<b>ELDER PARADE LONGITUDINAL SECTION</b>
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SAUNDERS HAVILL GROUP PH: 1300 123 744	21-0132	111	B																																		

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

SB DENOTES SETBACK LINE



**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *S. Thomas* Date: *02/12/22*  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Colliers Engineering and Design

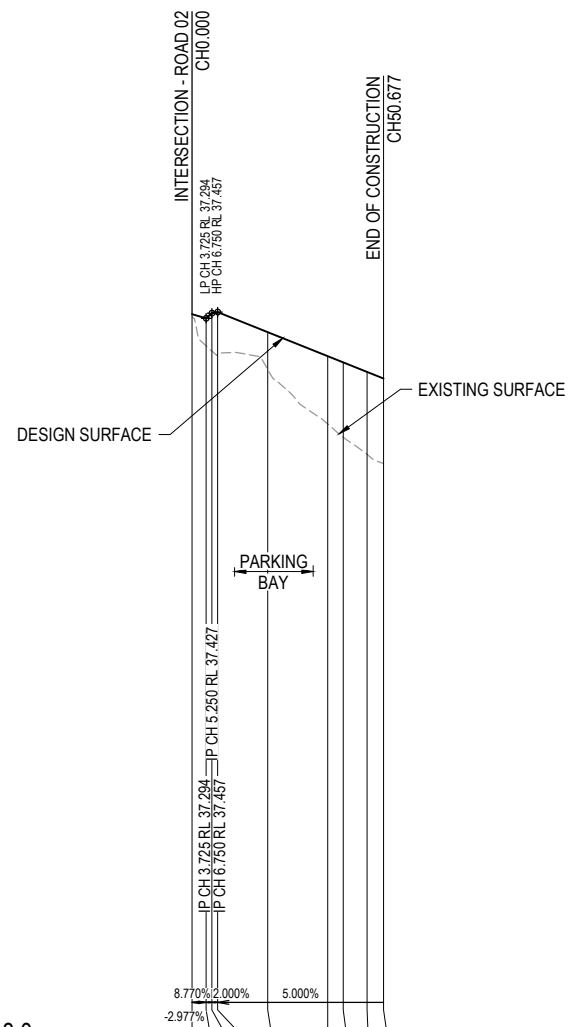
REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	17.01.22	CL	CL	ISSUED FOR CONSTRUCTION		<b>AS CONSTRUCTED</b>	1:100 1:200	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 19	ELDER PARADE CROSS SECTIONS
B	01.11.22	CL	TP	AS CONSTRUCTED						
					DESIGN	APPROVED SCOTT THOMAS RPEQ 04618		ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. <b>21-0132</b>
						THE DESIGN HAS BEEN PREVIOUSLY CERTIFIED BY PEAKURBAN AND APPROVED BY URBAN UTILITIES				DRAWING No. <b>112</b>
										REVISION <b>B</b>

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

SB DENOTES SETBACK LINE

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *Scott Thomas* Date: 02/12/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Colliers Engineering and Design

**NOTE:**  
 FINISHED SURFACE LEVELS IN ACCORDANCE WITH THE AS-CONSTRUCTED PLANS PREPARED BY SAUNDERS HAVILL GROUP.

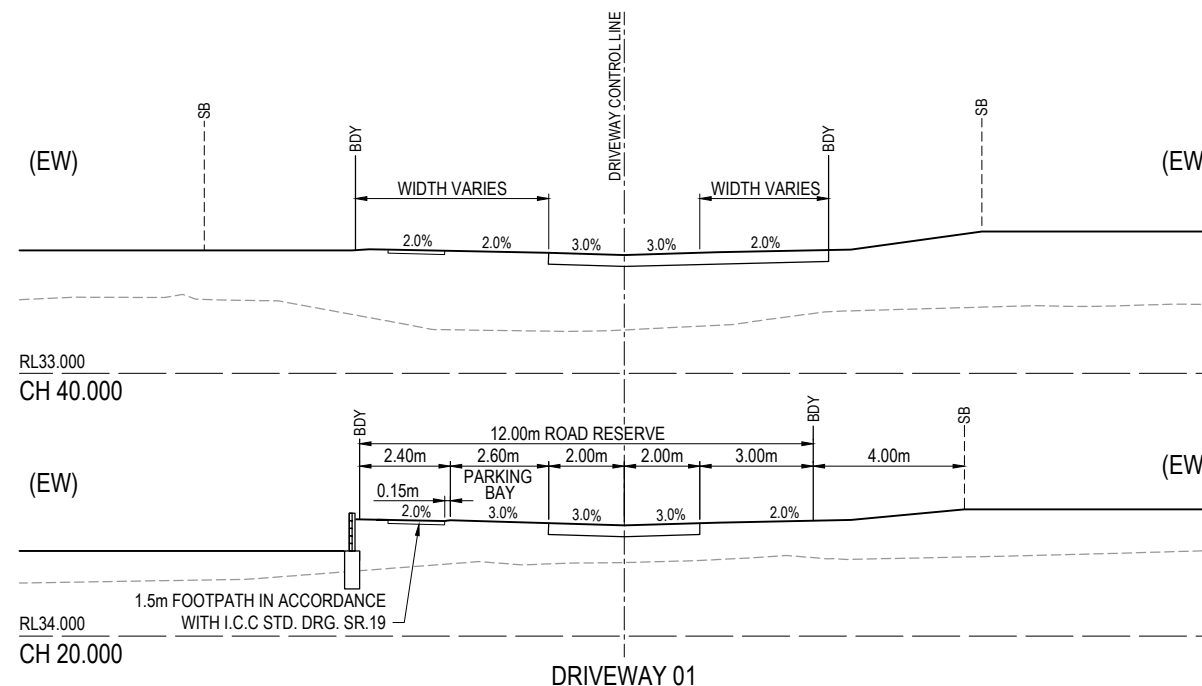


	DATUM RL 18.0						
CUT (-) / FILL	0.070	0.726	0.998	1.122	0.983	1.794	2.246
LHS LIP LEVEL	DRIVEWAY CROSSOVER IN ACCORDANCE WITH I.C.C. STD. DRG. SR.12						
RHS LIP LEVEL	REFER 21-0132-114 FOR DRIVEWAY DETAILS						
DESIGN SURFACE	37.404	37.294	37.427	37.457	36.927	36.291	35.700
EXISTING SURFACE	37.334	36.567	36.429	36.335	35.944	34.497	33.454
CHAINAGES	0.000	3.725	5.250	6.750	20.000	35.912	50.677
HORIZONTAL CURVES	R-25.000						

DRIVEWAY 01

**DRIVEWAY PAVEMENT NOTES:**

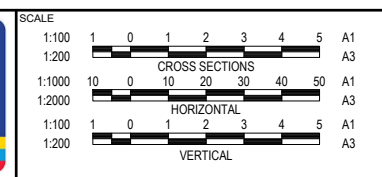
- DRIVEWAY CONCRETE TO BE 175mm THICK (N32), 100mm CBR45 MINIMUM BROOM FINISHED PERPENDICULAR TO LENGTH OF DRIVEWAY, SL82 REINFORCED FABRIC WITH 50mm TOP AND SIDE COVER
- REFER I.C.C. STD. DRG. SR.12 FOR MORE DETAILS



DRIVEWAY 01

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	17.01.22	CL	CL	ISSUED FOR CONSTRUCTION
B	01.11.22	CL	TP	AS CONSTRUCTED

DRAWN	STATUS
SCOTT THOMAS	AS CONSTRUCTED



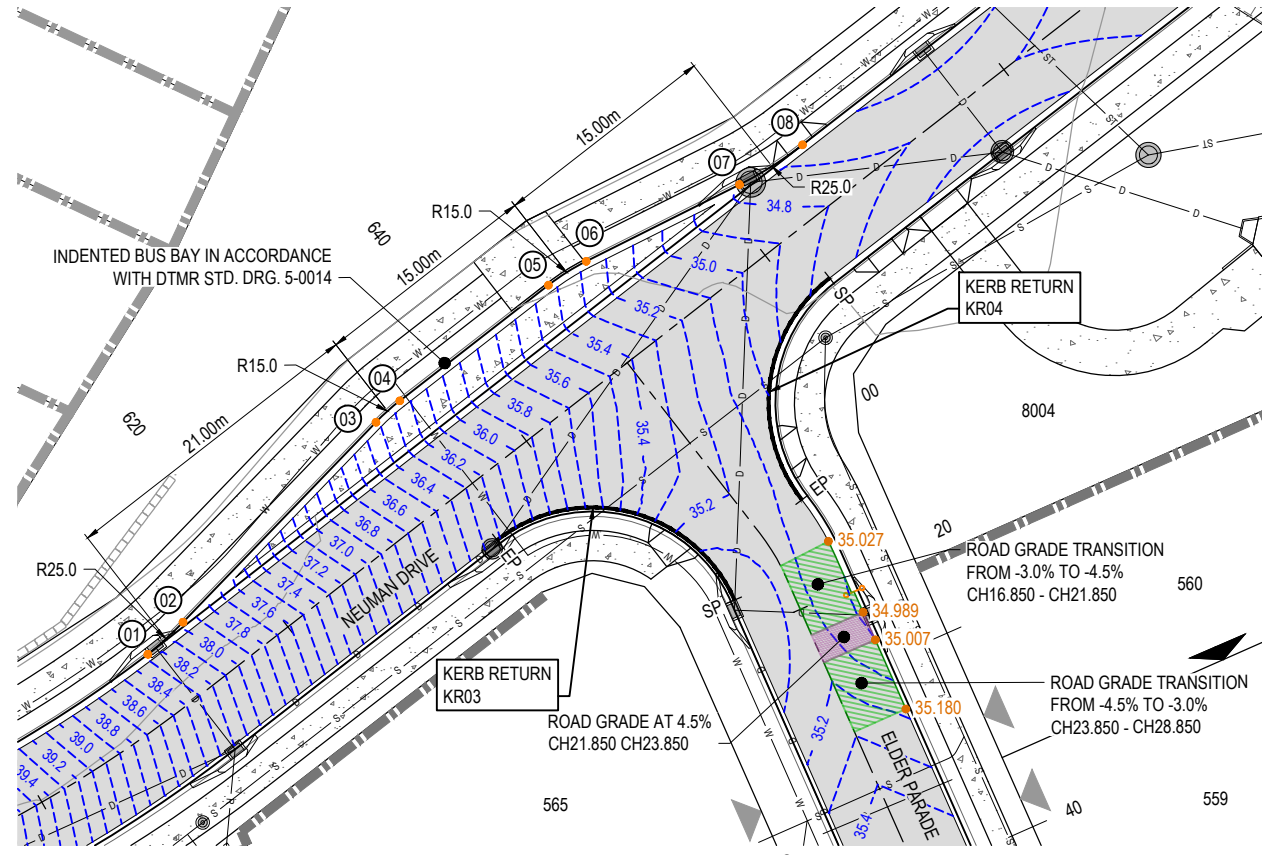
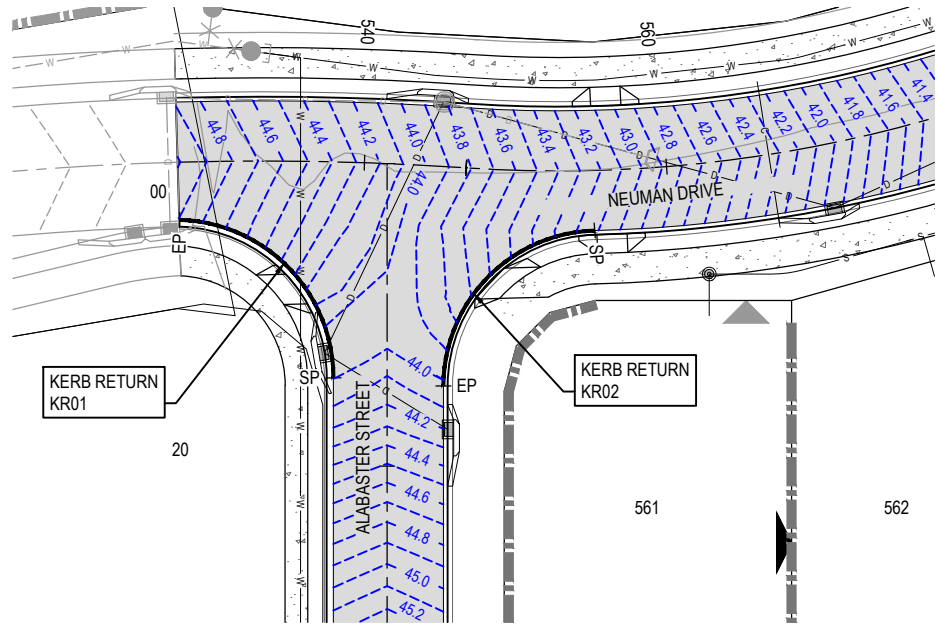
CLIENT  
**CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED**

ASSOCIATED CONSULTANT  
 SAUNDERS HAVILL GROUP  
 PH: 1300 123 744

PROJECT NAME  
**WOODLINKS VILLAGE - STAGE 19**

COLLINGWOOD DRIVE  
 COLLINGWOOD PARK

DRAWING TITLE		
<b>DRIVEWAY 01 LONGITUDINAL SECTION AND CROSS SECTIONS</b>		
PROJECT No.	DRAWING No.	REVISION
21-0132	113	B



**LEGEND**

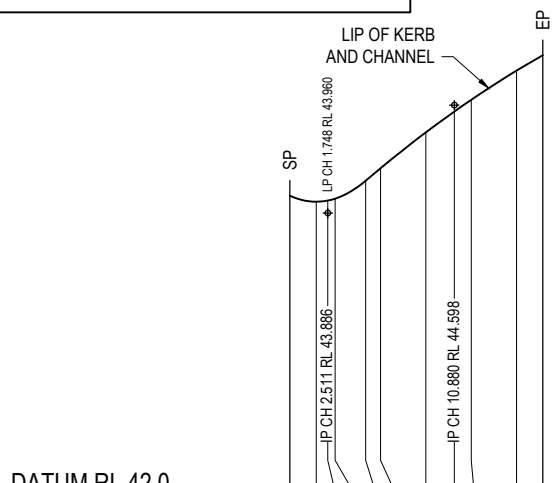
- PROPOSED ROAD CONTROL LINE
- PROPOSED KERB INVERT LINE
- PROPOSED KERB TRANSITION LOCATION
- PROPOSED KERB SETOUT NODE
- PROPOSED CONCRETE PATH AND PRAM RAMP
- PROPOSED NEW ROAD PAVEMENT
- INDICATIVE DRIVEWAY LOCATION
- PROPOSED PAVEMENT CONTOUR (0.2m INTERVAL)
- PROPOSED KERB SETOUT LINE
- SP --- PROPOSED KERB SETOUT START POINT
- EP --- PROPOSED KERB SETOUT END POINT
- PROPOSED SLEEPER RETAINING WALL
- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED SEWERAGE MAIN
- PROPOSED WATER MAIN

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *Thomas* Date: 02/12/22  
**SCOTT THOMAS** RPEQ No. 04618  
 For and on behalf of Colliers Engineering and Design

**NOTE:**  
 FINISHED SURFACE LEVELS IN ACCORDANCE WITH  
 THE AS-CONSTRUCTED PLANS PREPARED BY  
 SAUNDERS HAVILL GROUP

**BUS BAY SETOUT**

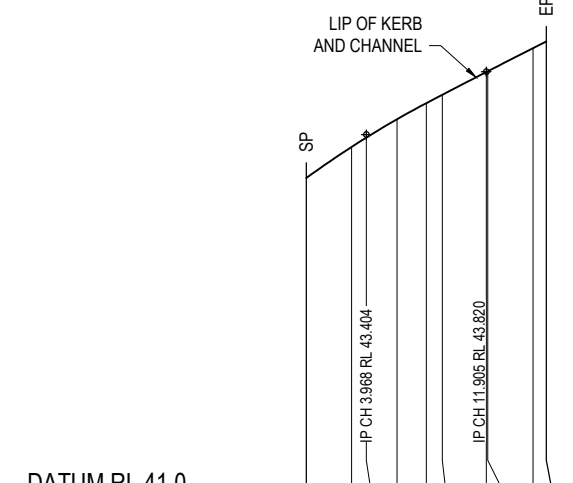
POINT	EASTING	NORTHING
01	6245.648	4162.529
02	6244.737	4167.371
03	6241.554	4178.251
04	6241.007	4181.156
05	6240.046	4192.144
06	6240.080	4195.100
07	6241.325	4206.367
08	6241.382	4211.294



DATUM RL 42.0

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
44.000	4082.644	6239.568	0.000	R-10.450
43.960	4083.466	6238.028	1.748	
43.960	4083.742	6237.316	2.511	
43.981	4083.881	6236.851	3.000	
44.100	4084.273	6234.869	5.022	
44.182	4084.318	6233.892	6.000	
44.419	4083.890	6230.933	9.000	
44.556	4083.198	6229.187	10.880	
44.634	4082.641	6228.216	12.000	
44.827	4080.675	6225.965	15.000	
44.929	4079.267	6224.947	16.739	

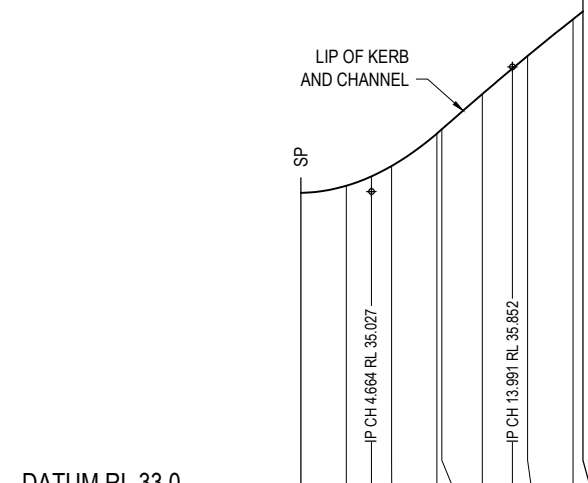
KR01



DATUM RL 41.0

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
43.118	4102.453	6240.761	0.000	R-10.275
43.323	4099.702	6239.592	3.000	
43.394	4098.755	6239.391	3.968	
43.506	4096.730	6239.264	6.000	
43.612	4094.613	6239.515	7.936	
43.668	4093.790	6239.805	9.000	
43.818	4091.209	6241.114	11.905	
43.923	4091.131	6241.169	12.000	
43.976	4088.976	6243.241	15.000	
44.020	4088.472	6243.953	15.873	

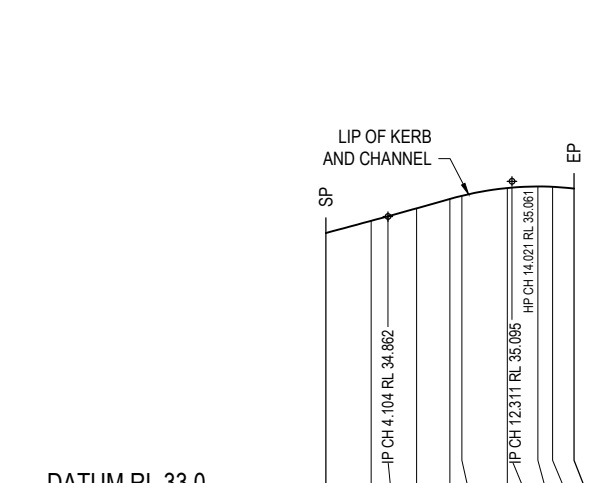
KR02



DATUM RL 33.0

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
35.019	4192.695	6264.079	0.000	R-10.275
35.066	4192.729	6261.090	3.000	
35.128	4192.374	6259.466	4.664	
35.197	4191.901	6258.217	6.000	
35.411	4190.282	6255.704	9.000	
35.440	4190.063	6255.461	9.327	
35.672	4188.008	6253.764	12.000	
35.841	4186.230	6252.875	13.991	
35.925	4185.272	6252.560	15.000	
36.167	4182.305	6252.195	18.000	
36.219	4181.651	6252.232	18.655	

KR03



DATUM RL 33.0

LIP LEVEL	NORTHING	EASTING	CHAINAGES	HORIZONTAL CURVES
34.754	4209.539	6249.617	0.000	R-10.450
34.834	4206.619	6250.301	3.000	
34.864	4205.615	6250.798	4.104	
34.917	4204.021	6251.781	6.000	
34.979	4202.435	6253.310	8.207	
35.000	4201.949	6253.936	9.000	
35.051	4200.572	6256.589	12.000	
35.054	4200.474	6256.885	12.311	
35.061	4200.095	6256.550	14.021	
35.059	4200.002	6259.524	15.000	
35.047	4200.030	6260.938	16.415	

KR04

**KERB TYPES NOTE:**  
 REFER TO THE SURVEY SETOUT ENGINEERING DRAWING  
 FOR KERB TYPES AND TRANSITION LOCATIONS

**WARNING! - EXISTING SERVICES**  
 EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS  
 AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE  
 PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER  
 FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF  
 ANY SPECIFIC TREATMENT OR REQUIREMENTS.












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**LEGEND**

-  PROPOSED AREA OF WORKS/STAGE BOUNDARY
-  PROPOSED STREET NAME SIGN
-  PROPOSED ROAD SIGN
-  EXISTING STREET NAME SIGN
-  EXISTING ROAD SIGN
-  PROPOSED RRPM - WHITE - BIDIRECTIONAL
-  PROPOSED GIVE WAY LINE
-  PROPOSED LANE LINE - CONTINUOUS
-  PROPOSED EDGE LINE
-  PROPOSED CONTINUITY LINE
-  EXISTING LINEMARKING (LINETYPES AS PER PROPOSED)

**NOTES:**

1. ALL SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND I.C.C. STANDARDS.
2. TRAFFIC SIGN POSTS SHALL BE IN ACCORDANCE WITH I.C.C. STD. DRG. SR.25.
3. STREET NAME SIGNS SHALL BE IN ACCORDANCE WITH I.C.C. STD. DRG. SR.26.
4. CONTRACTOR TO ENSURE SIGN LOCATIONS ARE CLEAR OF FUTURE DRIVEWAY LOCATIONS - LOCATE ON PB OR MID BLOCK

**AS-CONSTRUCTED CERTIFICATION**

Signature: *Scott Thomas* Date: 02/12/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Colliers Engineering and Design



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	03.09.21	CL	RR	ORIGINAL ISSUE
2	01.11.22	CL	TP	AS CONSTRUCTED

DRAWN	STATUS
AS CONSTRUCTED	

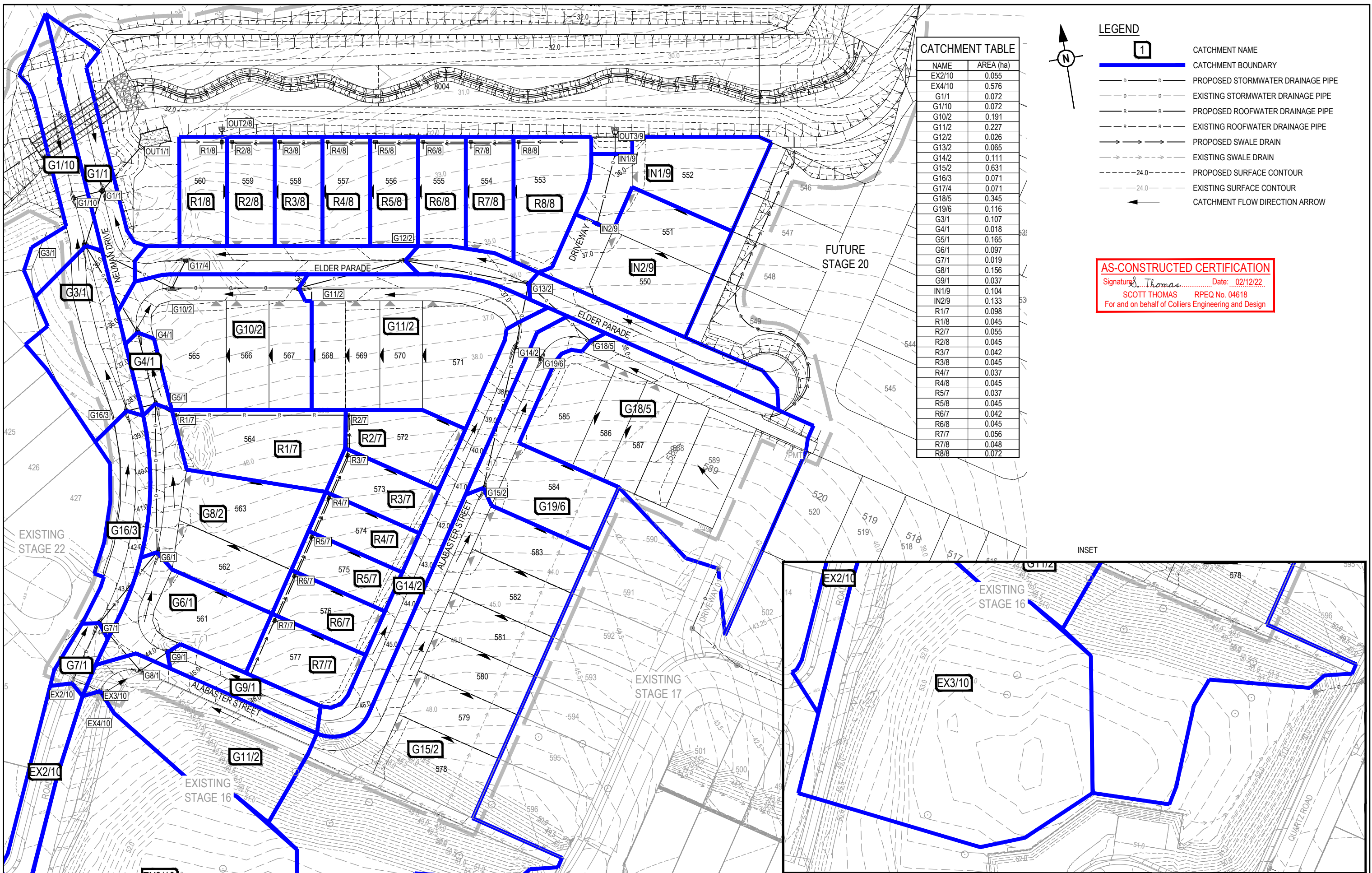


SCALE
1:500 10 5 0 10 20 A1 1:1000

CLIENT
CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED
ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744

PROJECT NAME
WOODLINKS VILLAGE - STAGE 19
COLLINGWOOD DRIVE COLLINGWOOD PARK

DRAWING TITLE
SIGNS AND LINEMARKING LAYOUT PLAN
PROJECT No. 21-0132
DRAWING No. 117
REVISION 2



CATCHMENT TABLE	
NAME	AREA (ha)
EX2/10	0.055
EX4/10	0.576
G1/1	0.072
G1/10	0.072
G10/2	0.191
G11/2	0.227
G12/2	0.026
G13/2	0.065
G14/2	0.111
G15/2	0.631
G16/3	0.071
G17/4	0.071
G18/5	0.345
G19/6	0.116
G3/1	0.107
G4/1	0.018
G5/1	0.165
G6/1	0.097
G7/1	0.019
G8/1	0.156
G9/1	0.037
IN1/9	0.104
IN2/9	0.133
R1/7	0.098
R1/8	0.045
R2/7	0.055
R2/8	0.045
R3/7	0.042
R3/8	0.045
R4/7	0.037
R4/8	0.045
R5/7	0.037
R5/8	0.045
R6/7	0.042
R6/8	0.045
R7/7	0.056
R7/8	0.048
R8/8	0.072

- LEGEND**
- 1 CATCHMENT NAME
  - CATCHMENT BOUNDARY
  - PROPOSED STORMWATER DRAINAGE PIPE
  - EXISTING STORMWATER DRAINAGE PIPE
  - PROPOSED ROOFWATER DRAINAGE PIPE
  - EXISTING ROOFWATER DRAINAGE PIPE
  - PROPOSED SWALE DRAIN
  - EXISTING SWALE DRAIN
  - PROPOSED SURFACE CONTOUR
  - EXISTING SURFACE CONTOUR
  - CATCHMENT FLOW DIRECTION ARROW

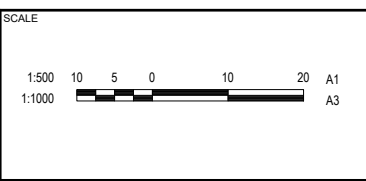
**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *Scott Thomas* Date: *02/12/22*  
**SCOTT THOMAS** RPEQ No. 04618  
 For and on behalf of Colliers Engineering and Design

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	03.09.21	CL	CL	ORIGINAL ISSUE
2	01.11.22	CL	TP	AS CONSTRUCTED

AS CONSTRUCTED

APPROVED  
**SCOTT THOMAS** RPEQ 04618

THE DESIGN HAS BEEN PREVIOUSLY CERTIFIED BY PEAKURBAN AND APPROVED BY URBAN UTILITIES



CLIENT

CANBERRA ESTATES  
CONSORTIUM NO. 36 PTY LIMITED

ASSOCIATED CONSULTANT  
SAUNDERS HAVILL GROUP  
PH: 1300 123 744

PROJECT NAME

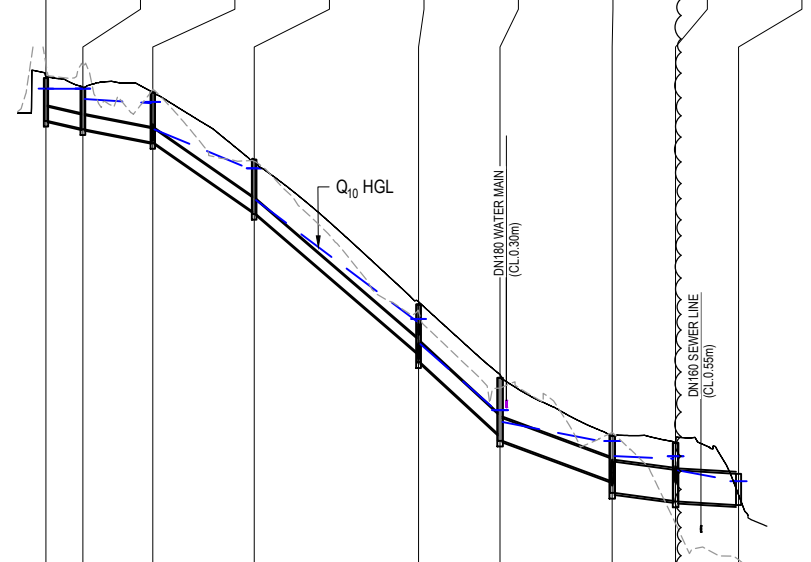
WOODLINKS VILLAGE - STAGE 19

COLLINGWOOD DRIVE  
COLLINGWOOD PARK

DRAWING TITLE		
STORMWATER DRAINAGE CATCHMENT LAYOUT PLAN		
PROJECT No.	DRAWING No.	REVISION
21-0132	118	2

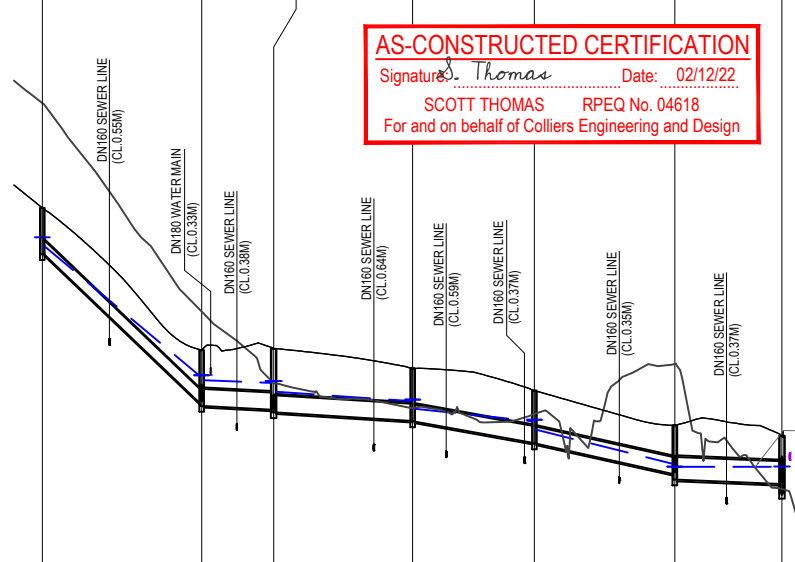
STRUCTURE NAME	G9/1
STRUCTURE DESCRIPTION	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S
	G8/1
	STD TYPE A GULLY (SAG) LIL: 2.4m LINTEL; TYPE S
	G7/1
	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S
	G6/1
	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S
	G5/1
	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S
	G4/1
	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S ON A 12000 MH
	G3/1
	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S ON A 15000 MH
	G1/1
	STD TYPE A GULLY (SAG) LIL: 2.4m LINTEL; TYPE S ON A 12000 MH
	HEADWALL OUT/1/1

**STORMWATER STRUCTURE NOTE:**  
 STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:  
 CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.  
 STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:  
 CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.  
 STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:  
 SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.  
 ROUND EXTENDED (900mm MAX) MANHOLES:  
 CONSTRUCT IN ACCORDANCE WITH PEAK URBAN STD DRAWINGS S-101 & S-102.  
 RECTANGULAR STRUCTURE (SPECIAL):  
 SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.



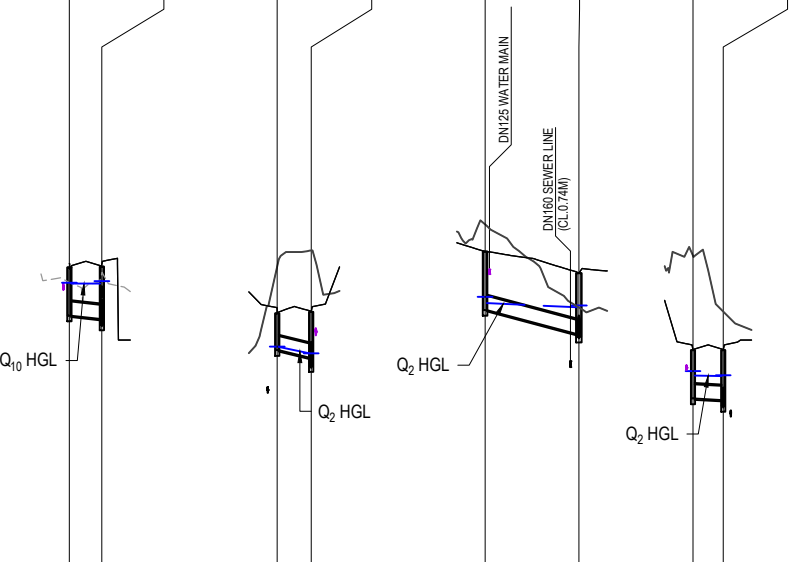
PIPE SIZE (mm)	375	375	375	375	525	600	825	825
PIPE CLASS	3	3	3	3	3	3	3	3
PIPE GRADE (%)	1.97%	1.78%	6.41%	8.28%	8.44%	3.36%	1.36%	0.71%
PIPE SLOPE (1 in X)	2.10%	1.86%	6.73%	8.42%	8.76%	3.55%	1.25%	0.54%
FULL PIPE VELOCITY (m/s)	47.62	53.89	14.86	11.41	11.41	28.16	86.24	184.96
PART FULL VELOCITY (m/s)	50.63	56.15	15.58	12.07	11.84	29.71	73.17	139.08
DATUM RL	0.13	1.22	2.96	3.24	2.65	2.07	1.75	1.84
H.G.L. IN PIPE & W.S.E IN STRUCTURE	1.24	2.23	4.48	4.99	5.73	4.10	3.11	2.24
PIPE FLOW (Cumecs)	0.13	0.135	0.327	0.358	0.574	0.585	0.936	0.984
PIPE CAPACITY AT GRADE (Cumecs)	0.014	0.135	0.327	0.358	0.574	0.585	0.936	0.984
DEPTH TO INVERT	43.899	43.894	43.894	43.894	43.821	41.744	40.948	37.742
INVERT LEVEL OF DRAIN	43.894	43.894	43.894	43.894	43.821	41.744	40.948	37.742
DESIGN SURFACE LEVEL	44.19	44.178	44.0	43.923	43.79	43.796	41.95	42.016
SETOUT COORDINATES	E 6246.515	N 4087.143	E 6237.851	N 4083.055	E 6228.188	N 4098.673	E 6248.116	N 4116.580
RUNNING CHAINAGE	-8.769	9.62	0.992	18.53	26.80	43.44	89.810	21.31

STRUCTURE NAME	G15/2
STRUCTURE DESCRIPTION	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S
	G14/2
	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S
	G13/2
	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S ON A 12000 MH
	G12/2
	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S
	G11/2
	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S
	G10/2
	STD TYPE A GULLY (SAG) LIL: 2.4m LINTEL; TYPE S
	G3/1
	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S ON A 12000 MH



PIPE SIZE (mm)	375	450	450	450	450	600	375	375
PIPE CLASS	3	3	3	3	3	3	3	3
PIPE GRADE (%)	9.09%	0.67%	0.56%	1.74%	2.04%	0.45%	2.24%	0.58%
PIPE SLOPE (1 in X)	9.34%	0.50%	0.60%	1.75%	2.16%	0.40%	2.21%	0.51%
FULL PIPE VELOCITY (m/s)	18.71	148.23	175.95	57.23	46.24	248.72	45.21	195.16
PART FULL VELOCITY (m/s)	10.99	148.23	175.95	57.23	48.99	218.15	44.46	169.60
DATUM RL	0.83	1.10	1.47	1.48	1.73	0.12	0.58	0.57
H.G.L. IN PIPE & W.S.E IN STRUCTURE	3.62	1.43	1.57	2.50	2.81	0.85	2.06	1.14
PIPE FLOW (Cumecs)	0.091	0.175	0.234	0.236	0.275	0.035	0.064	0.063
PIPE CAPACITY AT GRADE (Cumecs)	0.536	0.202	0.221	0.377	0.419	0.389	0.280	0.126
DEPTH TO INVERT	39.966	39.738	36.297	36.316	36.187	36.115	36.163	36.187
INVERT LEVEL OF DRAIN	39.738	36.297	36.316	36.187	36.115	36.163	36.187	36.187
DESIGN SURFACE LEVEL	40.75	40.744	37.01	36.983	37.04	37.017	36.51	37.03
SETOUT COORDINATES	E 6345.547	N 4120.172	E 6361.295	N 4159.266	E 6367.967	N 4177.119	E 6333.370	N 4189.513
RUNNING CHAINAGE	-42.655	42.21	-0.500	19.27	36.95	55.318	32.08	37.23

STRUCTURE NAME	G16/3
STRUCTURE DESCRIPTION	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S
	G5/1
	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S
	G17/4
	STD TYPE A GULLY (SAG) LIL: 2.4m LINTEL; TYPE S
	G10/2
	STD TYPE A GULLY (SAG) LIL: 2.4m LINTEL; TYPE S
	G18/5
	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S
	G13/2
	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S ON A 12000 MH
	G19/6
	STD TYPE A GULLY (SAG) LIL: 2.4m LINTEL; TYPE S
	G14/2
	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S

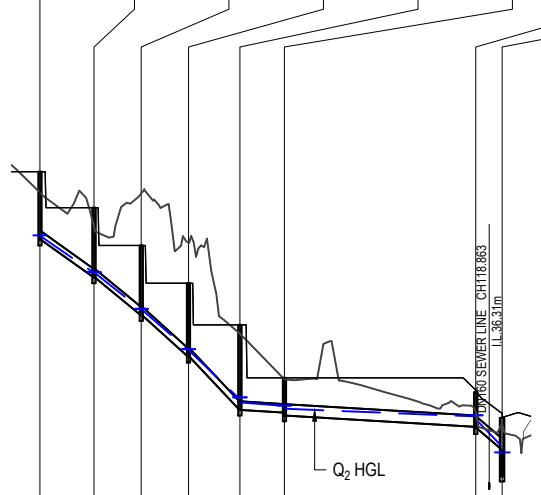


PIPE SIZE (mm)	375	375	375	375	375	375	375	375
PIPE CLASS	3	3	3	3	3	3	3	3
PIPE GRADE (%)	1.26%	2.11%	2.24%	2.24%	2.24%	2.24%	2.24%	0.58%
PIPE SLOPE (1 in X)	1.00%	2.21%	2.55%	2.55%	2.55%	2.55%	2.55%	0.51%
FULL PIPE VELOCITY (m/s)	100.07	45.21	44.46	44.46	44.46	44.46	44.46	169.60
PART FULL VELOCITY (m/s)	79.27	47.32	44.46	44.46	44.46	44.46	44.46	139.08
DATUM RL	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
H.G.L. IN PIPE & W.S.E IN STRUCTURE	0.96	1.27	2.06	2.06	2.06	2.06	2.06	1.14
PIPE FLOW (Cumecs)	0.028	0.015	0.064	0.064	0.064	0.064	0.064	0.063
PIPE CAPACITY AT GRADE (Cumecs)	0.175	0.261	0.280	0.280	0.280	0.280	0.280	0.126
DEPTH TO INVERT	37.762	37.744	37.742	37.742	37.742	37.742	37.742	36.187
INVERT LEVEL OF DRAIN	37.744	37.742	37.742	37.742	37.742	37.742	37.742	36.187
DESIGN SURFACE LEVEL	38.23	38.20	37.04	37.017	37.017	37.017	37.017	37.03
SETOUT COORDINATES	E 6245.821	N 4198.830	E 6254.395	N 4159.580	E 6269.756	N 4199.615	E 6264.643	N 4192.326
RUNNING CHAINAGE	0.000	8.72	8.606	8.99	24.90	24.807	24.807	8.001

<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>REVISION DETAILS</th> </tr> <tr> <td>A</td> <td>17.01.22</td> <td>CL</td> <td>CL</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> <tr> <td>B</td> <td>08.02.22</td> <td>CL</td> <td>CL</td> <td>AMENDMENTS TO LINE 1, OUT/1/1 UPDATED</td> </tr> <tr> <td>C</td> <td>01.11.22</td> <td>CL</td> <td>TP</td> <td>AS CONSTRUCTED</td> </tr> </table>	REV	DATE	DESIGN	DRAWN	REVISION DETAILS	A	17.01.22	CL	CL	ISSUED FOR CONSTRUCTION	B	08.02.22	CL	CL	AMENDMENTS TO LINE 1, OUT/1/1 UPDATED	C	01.11.22	CL	TP	AS CONSTRUCTED	<table border="1"> <tr> <th>DRAWN</th> <th>STATUS</th> </tr> <tr> <td>AS CONSTRUCTED</td> <td>AS CONSTRUCTED</td> </tr> </table>	DRAWN	STATUS	AS CONSTRUCTED	AS CONSTRUCTED		<table border="1"> <tr> <th>SCALE</th> </tr> <tr> <td>1:1000 0 10 20 30 40 50 A1</td> </tr> <tr> <td>1:2000 HORIZONTAL A3</td> </tr> <tr> <td>1:100 0 1 2 4 A1</td> </tr> <tr> <td>1:200 VERTICAL A3</td> </tr> </table>	SCALE	1:1000 0 10 20 30 40 50 A1	1:2000 HORIZONTAL A3	1:100 0 1 2 4 A1	1:200 VERTICAL A3	<table border="1"> <tr> <th>CLIENT</th> </tr> <tr> <td>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</td> </tr> <tr> <th>ASSOCIATED CONSULTANT</th> </tr> <tr> <td>SAUNDERS HAVILL GROUP PH: 1300 123 744</td> </tr> </table>	CLIENT	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	ASSOCIATED CONSULTANT	SAUNDERS HAVILL GROUP PH: 1300 123 744	<table border="1"> <tr> <th>PROJECT NAME</th> </tr> <tr> <td>WOODLINKS VILLAGE - STAGE 19</td> </tr> <tr> <th>COLLINGWOOD DRIVE</th> </tr> <tr> <td>COLLINGWOOD PARK</td> </tr> </table>	PROJECT NAME	WOODLINKS VILLAGE - STAGE 19	COLLINGWOOD DRIVE	COLLINGWOOD PARK	<table border="1"> <tr> <th>DRAWING TITLE</th> </tr> <tr> <td>STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 2</td> </tr> <tr> <th>PROJECT No.</th> </tr> <tr> <td>21-0132</td> </tr> <tr> <th>DRAWING No.</th> </tr> <tr> <td>119</td> </tr> <tr> <th>REVISION</th> </tr> <tr> <td>C</td> </tr> </table>	DRAWING TITLE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 2	PROJECT No.	21-0132	DRAWING No.	119	REVISION	C
REV	DATE	DESIGN	DRAWN	REVISION DETAILS																																															
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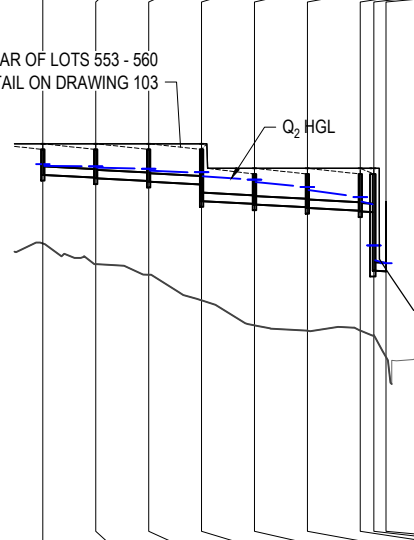
STRUCTURE NAME	R7/7	R6/7	R5/7	R4/7	R3/7	R2/7	R1/7	G5/1
STRUCTURE DESCRIPTION	ROOFWATER INLET 600x900 GRATED INLET	ROOFWATER INLET 600x900 GRATED INLET	ROOFWATER INLET 600x900 GRATED INLET	ROOFWATER INLET 600x900 GRATED INLET	ROOFWATER INLET 600x900 GRATED INLET	ROOFWATER INLET 600x600 GRATED INLET	ROOFWATER INLET 600x600 GRATED INLET	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S

**STORMWATER STRUCTURE NOTE:**  
 STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:  
 CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.  
 STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:  
 CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.  
 STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:  
 SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.  
 ROUND EXTENDED (900mm MAX) MANHOLES:  
 CONSTRUCT IN ACCORDANCE WITH PEAK URBAN STD DRAWINGS S-101 & S-102.  
 RECTANGULAR STRUCTURE (SPECIAL):  
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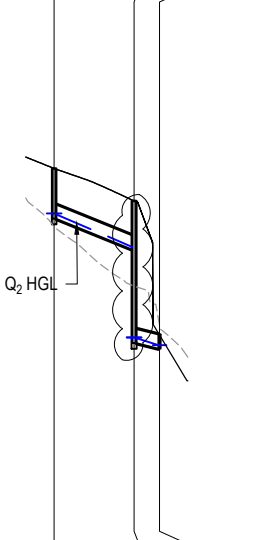
PIPE SIZE (mm)	225	225	225	225	225	300	300
PIPE CLASS	uPVC SN8	uPVC SN8	uPVC SN8	uPVC SN8	uPVC SN8	uPVC SN8	uPVC SN8
PIPE GRADE (%)	6.59%	7.55%	7.99%	9.82%	0.84%	0.57%	7.26%
PIPE SLOPE (1 in X)	14.59	12.76	11.57	10.14	1.70	1.18	13.03
FULL PIPE VELOCITY (m/s)	0.29	0.51	0.70	0.89	1.10	0.78	1.05
PART FULL VELOCITY (m/s)	2.12	2.61	2.96	3.36	1.15	1.31	3.65
DATUM RL	28.0						
H.G.L. IN PIPE & W.S.E IN STRUCTURE	43.018	42.988	42.042	42.018	41.073	41.039	40.005
PIPE FLOW (Cumecs)	0.012	0.020	0.028	0.035	0.044	0.055	0.074
PIPE CAPACITY AT GRADE (Cumecs)	0.139	0.149	0.156	0.169	0.041	0.088	0.317
DEPTH TO INVERT	1.69	1.80	1.70	1.81	2.09	2.26	1.80
INVERT LEVEL OF DRAIN	42.89	41.94	41.88	40.87	38.45	38.40	37.94
DESIGN SURFACE LEVEL	44.58	43.64	42.68	41.66	40.54	39.18	38.78
SETOUT COORDINATES	E 6279.031	E 6286.795	E 6293.582	E 6300.368	E 6307.741	E 6309.778	E 6299.826
RUNNING CHAINAGE	0.000	14.300	28.600	39.300	52.904	64.691	115.313

STRUCTURE NAME	R8/8	R7/8	R6/8	R5/8	R4/8	R3/8	R2/8	R1/8	HEADWALL OUT2/8
STRUCTURE DESCRIPTION	ROOFWATER INLET 600x600 GRATED INLET	ROOFWATER INLET 600x600 GRATED INLET	ROOFWATER INLET 600x600 GRATED INLET	ROOFWATER INLET 600x900 GRATED INLET	ROOFWATER INLET 600x600 GRATED INLET	ROOFWATER INLET 600x600 GRATED INLET	ROOFWATER INLET 600x600 GRATED INLET	ROOFWATER INLET 600x900 GRATED INLET	



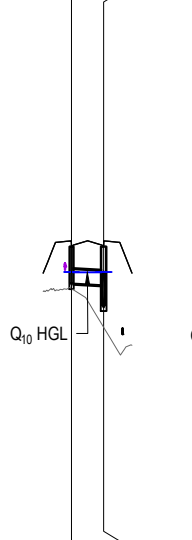
PIPE SIZE (mm)	225	225	225	225	225	225	225	225	225
PIPE CLASS	uPVC SN8	uPVC SN8	uPVC SN8	uPVC SN8	uPVC SN8	uPVC SN8	uPVC SN8	uPVC SN8	uPVC SN8
PIPE GRADE (%)	0.50%	0.57%	0.49%	0.51%	0.50%	0.56%	0.42%	0.34%	0.59%
PIPE SLOPE (1 in X)	1.07	1.18	1.02	1.05	1.12	1.16	0.88	0.71	1.18
FULL PIPE VELOCITY (m/s)	0.37	0.62	0.85	0.85	1.08	1.30	1.53	1.75	1.98
PART FULL VELOCITY (m/s)	0.89	1.00	1.07	1.08	1.30	1.53	1.75	1.98	1.98
DATUM RL	20.0								
H.G.L. IN PIPE & W.S.E IN STRUCTURE	35.713	35.663	35.652	35.618	35.588	35.538	35.482	35.390	35.238
PIPE FLOW (Cumecs)	0.015	0.025	0.034	0.043	0.052	0.061	0.070	0.079	0.079
PIPE CAPACITY AT GRADE (Cumecs)	0.038	0.037	0.038	0.038	0.038	0.038	0.038	0.036	0.036
DEPTH TO INVERT	0.72	0.85	0.79	0.89	0.95	0.91	0.98	1.41	0.84
INVERT LEVEL OF DRAIN	35.44	35.425	35.37	35.34	35.26	35.24	35.17	34.74	34.64
DESIGN SURFACE LEVEL	36.16	36.260	36.16	36.15	36.15	36.15	36.260	36.51	36.600
SETOUT COORDINATES	E 6371.664	E 6367.837	E 6365.837	E 6344.010	E 6330.183	E 6325.204	E 6316.357	E 6302.530	E 6288.703
RUNNING CHAINAGE	0.000	13.99	14.000	14.03	14.09	14.000	13.85	14.04	13.97

STRUCTURE NAME	IN2/9	IN1/9	OUT3/9
STRUCTURE DESCRIPTION	STD FIELD INLET TYPE 2 900x600	900x600 FIELD INLET WITH INVERTED GRATED LID ON A 10500 MH	HEADWALL



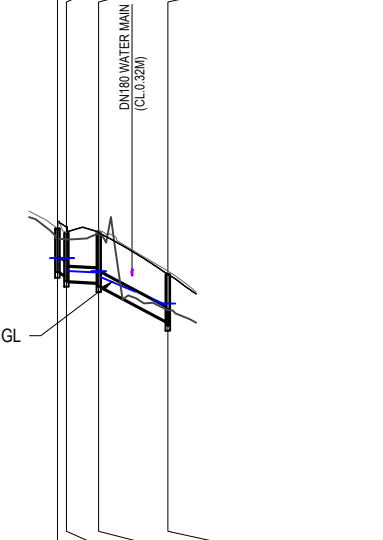
PIPE SIZE (mm)	375	375
PIPE CLASS	3	3
PIPE GRADE (%)	3.76%	2.18%
PIPE SLOPE (1 in X)	7.67	4.37
FULL PIPE VELOCITY (m/s)	0.25	0.32
PART FULL VELOCITY (m/s)	1.87	1.65
DATUM RL	21.0	
H.G.L. IN PIPE & W.S.E IN STRUCTURE	35.409	35.386
PIPE FLOW (Cumecs)	0.027	0.036
PIPE CAPACITY AT GRADE (Cumecs)	0.345	0.261
DEPTH TO INVERT	1.33	1.25
INVERT LEVEL OF DRAIN	34.076	34.131
DESIGN SURFACE LEVEL	36.57	35.72
SETOUT COORDINATES	E 6380.656	E 6389.022
RUNNING CHAINAGE	0.000	21.149

STRUCTURE NAME	G1/10	G1/1
STRUCTURE DESCRIPTION	STD TYPE A GULLY (SAG) LIL: 2.4m LINTEL; TYPE S	STD TYPE A GULLY (SAG) LIL: 2.4m LINTEL; TYPE S ON A 12000 MH



PIPE SIZE (mm)	375
PIPE CLASS	3
PIPE GRADE (%)	0.34%
PIPE SLOPE (1 in X)	0.71
FULL PIPE VELOCITY (m/s)	0.14
PART FULL VELOCITY (m/s)	0.76
DATUM RL	21.0
H.G.L. IN PIPE & W.S.E IN STRUCTURE	33.857
PIPE FLOW (Cumecs)	0.015
PIPE CAPACITY AT GRADE (Cumecs)	0.125
DEPTH TO INVERT	0.76
INVERT LEVEL OF DRAIN	33.091
DESIGN SURFACE LEVEL	34.23
SETOUT COORDINATES	E 6240.365
RUNNING CHAINAGE	0.000

STRUCTURE NAME	EX4/10	EX3/10	EX2/10	G7/1
STRUCTURE DESCRIPTION	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S	STD TYPE A GULLY LIL: 4.8m LINTEL; TYPE L	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL; TYPE S



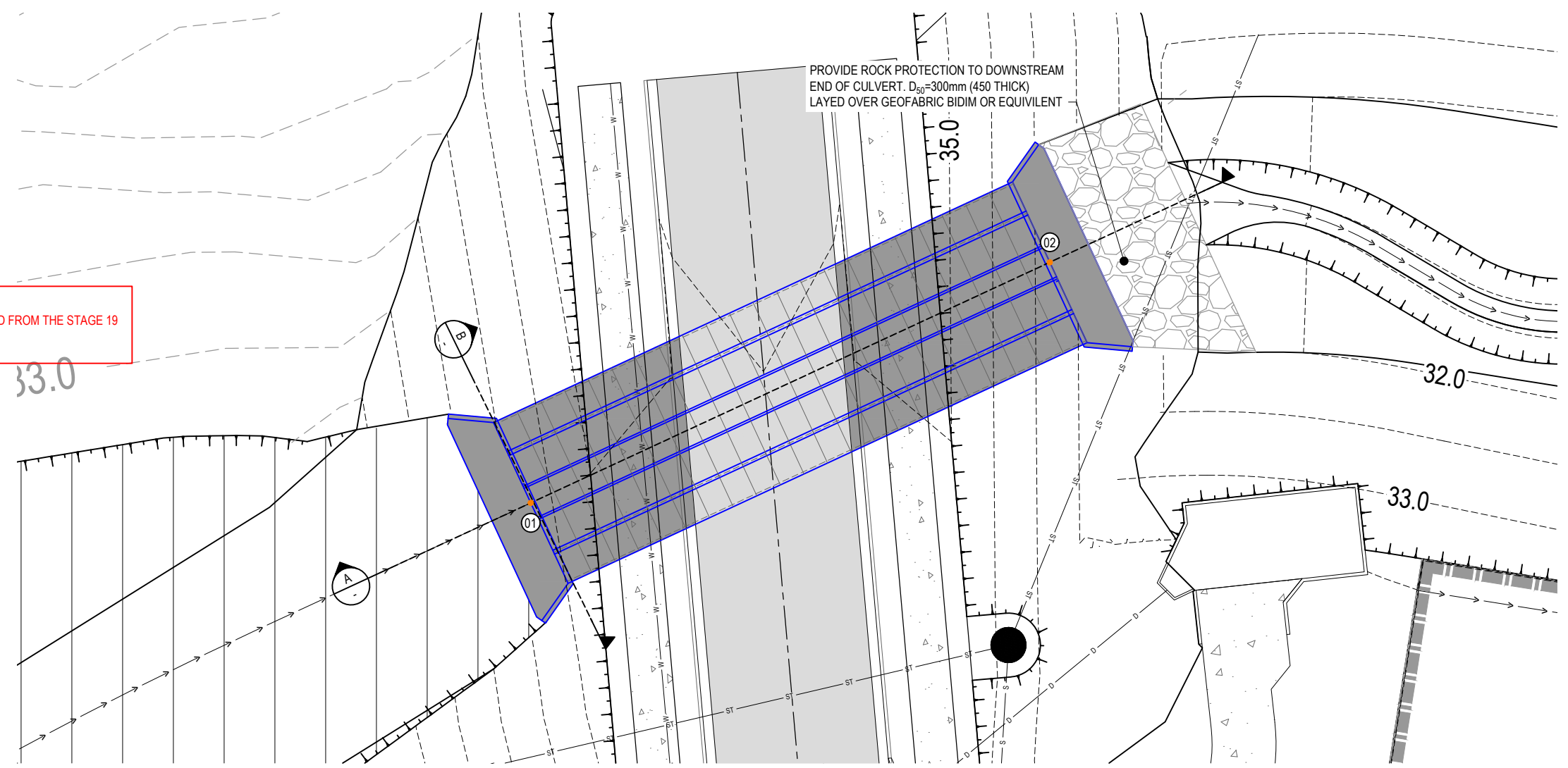
PIPE SIZE (mm)	375	375	375
PIPE CLASS	3	3	3
PIPE GRADE (%)	3.80%	0.51%	5.04%
PIPE SLOPE (1 in X)	7.80	1.05	10.08
FULL PIPE VELOCITY (m/s)	0.00	0.95	1.05
PART FULL VELOCITY (m/s)	0.00	1.27	3.10
DATUM RL	31.0		
H.G.L. IN PIPE & W.S.E IN STRUCTURE	44.227	44.227	42.990
PIPE FLOW (Cumecs)	0.000	0.105	0.116
PIPE CAPACITY AT GRADE (Cumecs)	0.342	0.125	0.394
DEPTH TO INVERT	1.166	1.275	1.246
INVERT LEVEL OF DRAIN	43.066	43.067	42.560
DESIGN SURFACE LEVEL	45.042	44.892	43.79
SETOUT COORDINATES	E 6224.252	E 6225.299	E 6228.188
RUNNING CHAINAGE	-2.394	-0.001	26.823

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *Scott Thomas* Date: 02/12/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Colliers Engineering and Design





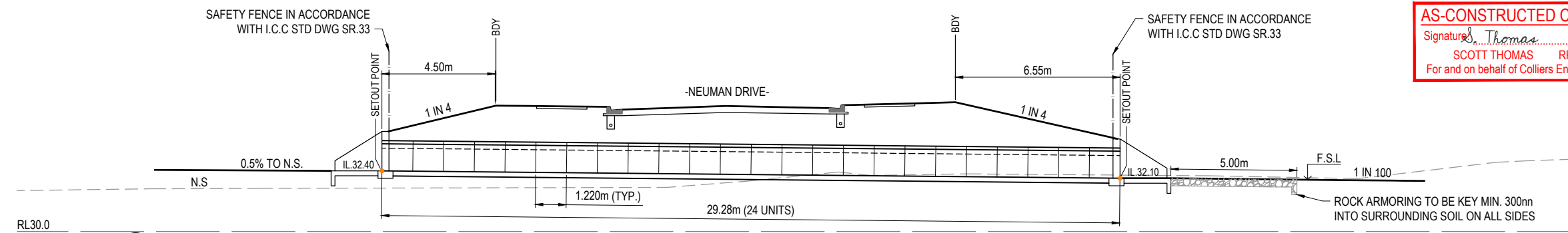
**NOTE:**  
THESE WORKS WERE DESCOPE FROM THE STAGE 19 PACKAGE



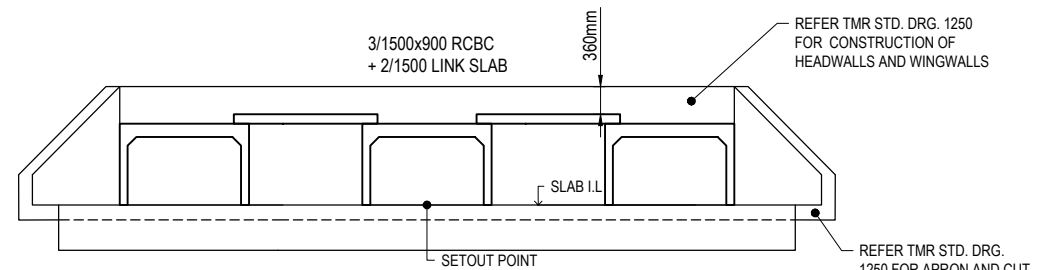
**CULVERT SETOUT**

POINT	EASTING	NORTHING
01	6231.826	4238.323
02	6256.176	4249.614

**CULVERT LAYOUT DETAIL**  
SCALE - 1:125 (A1)  
SCALE - 1:250 (A3)



**SECTION A**  
SCALE 1:100 (A1)  
SCALE 1:200 (A3)



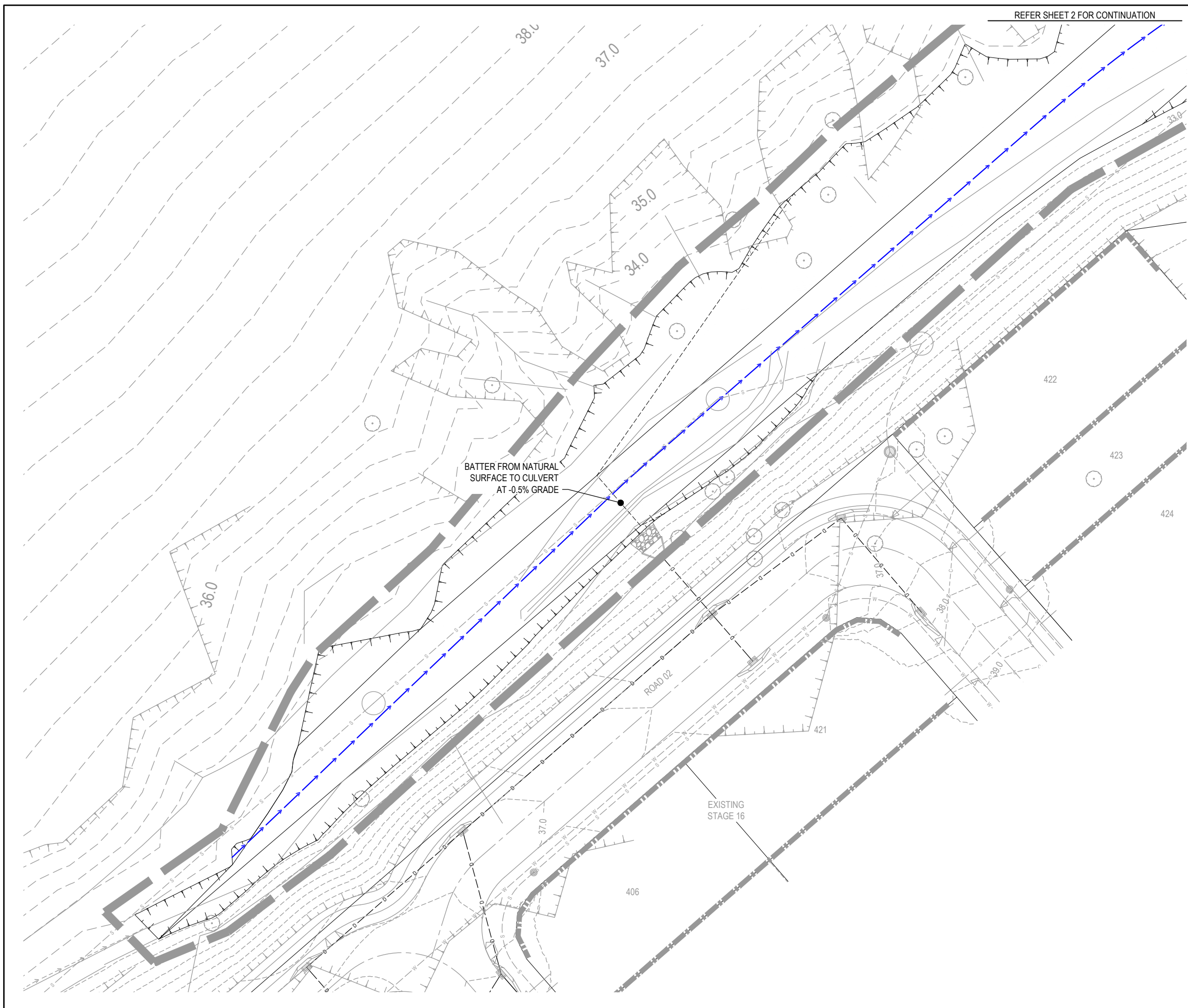
**SECTION B**  
SCALE 1:50 (A1)  
SCALE 1:100 (A3)

**AS-CONSTRUCTED CERTIFICATION**  
Signature: *Scott Thomas* Date: 02/12/22  
SCOTT THOMAS RPEQ No. 04618  
For and on behalf of Colliers Engineering and Design

REV	DATE	DESIGN	DRAWN	ORIGINAL ISSUE	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
1	03.09.21	CL	RR	ORIGINAL ISSUE			<b>AS CONSTRUCTED</b>	SCALE 1:50 1 0.5 0 1 2 A1 1:100 1 0.5 0 1 2 3 4 5 A3 1:200 1 0 1 2 3 4 5 A1 1:250 2.5 0 2.5 5 A1 1:250 2.5 0 2.5 5 A3	<b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b> ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	<b>WOODLINKS VILLAGE - STAGE 19</b>  COLLINGWOOD DRIVE COLLINGWOOD PARK	<b>CULVERT DETAILS LAYOUT PLAN</b>  PROJECT No. <b>21-0132</b> DRAWING No. <b>123</b> REVISION <b>2</b>
2	01.11.22	CL	TP	AS CONSTRUCTED		DESIGN APPROVED <b>SCOTT THOMAS</b> RPEQ 04618 THE DESIGN HAS BEEN PREVIOUSLY CERTIFIED BY PEAKURBAN AND APPROVED BY URBAN UTILITIES					







LEGEND	
	PROPOSED AREA OF WORKS
	PROPOSED ROAD CONTROL LINE
	EXISTING ROAD CROWN
	PROPOSED KERB INVERT LINE
	PROPOSED EDGE OF BITUMEN
	PROPOSED KERB TRANSITION LOCATION
	PROPOSED CONCRETE PATH AND PRAM RAMP
	PROPOSED NEW ROAD PAVEMENT
	INDICATIVE DRIVEWAY LOCATION
	ZERO LOT BOUNDARY
	PROPOSED SURFACE CONTOUR
	EXISTING SURFACE CONTOUR
	PROPOSED STORMWATER DRAINAGE PIPE
	EXISTING STORMWATER DRAINAGE PIPE
	PROPOSED ROOFWATER DRAINAGE PIPE
	PROPOSED ROOFWATER KERB ADAPTOR
	PROPOSED ROOFWATER KERB ADAPTOR WITH PIPE CONNECTION TO ALLOTMENT
	PROPOSED SWALE SETOUT NODE
	PROPOSED SLEEPER RETAINING WALL
	EXISTING SLEEPER RETAINING WALL
	EXISTING ROCK RETAINING WALL
	PROPOSED SEWERAGE MAIN
	EXISTING SEWERAGE MAIN
	PROPOSED WATER MAIN
	EXISTING WATER MAIN
	PROPOSED WATER CONDUIT
	EXISTING WATER CONDUIT
	EXISTING ELECTRICAL CABLE U/G

**WARNING! - EXISTING SERVICES**

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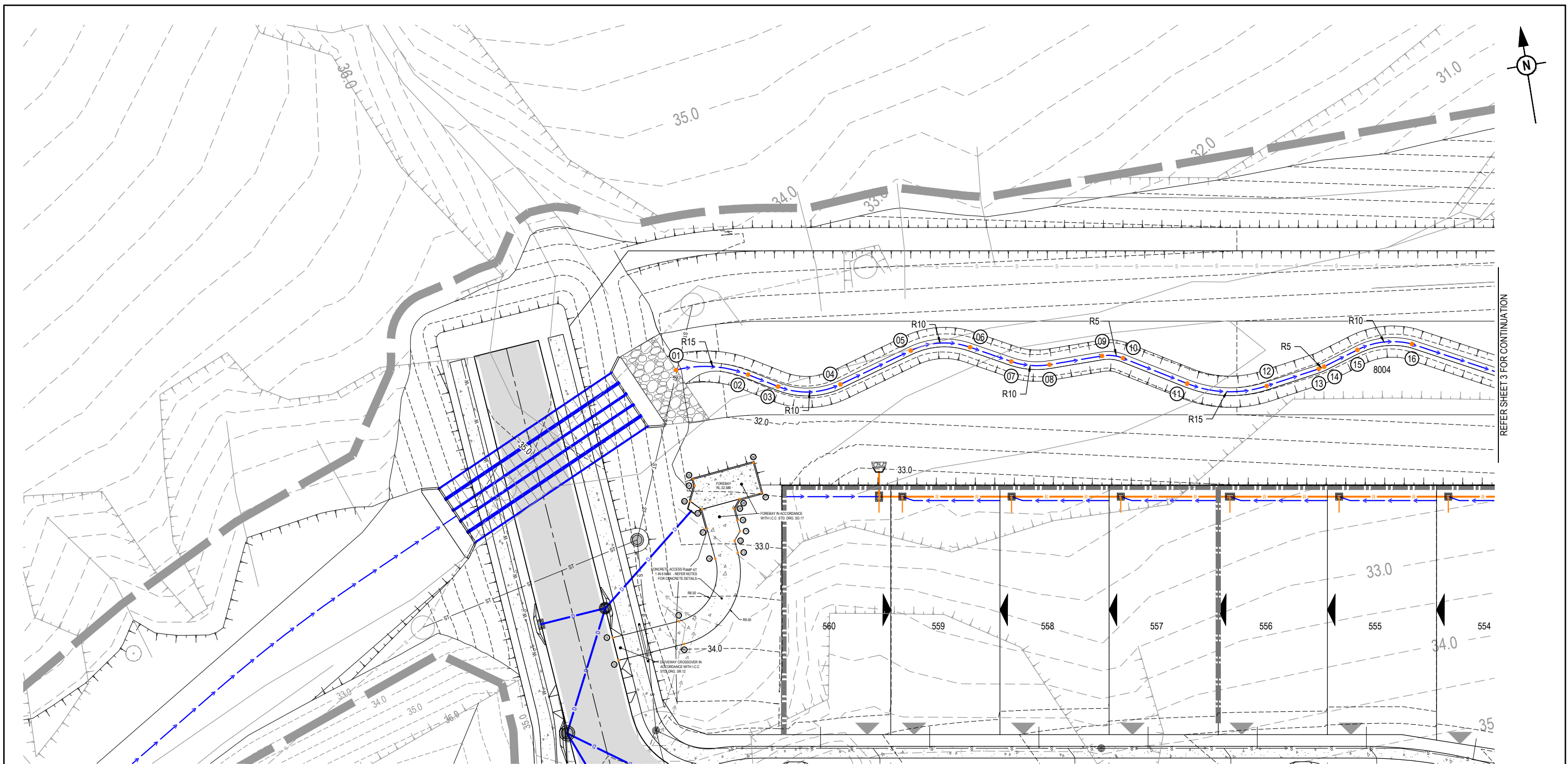
- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

**AS-CONSTRUCTED CERTIFICATION**

Signature: *Scott Thomas* Date: 02/12/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Colliers Engineering and Design

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REFER SHEET 3 FOR CONTINUATION

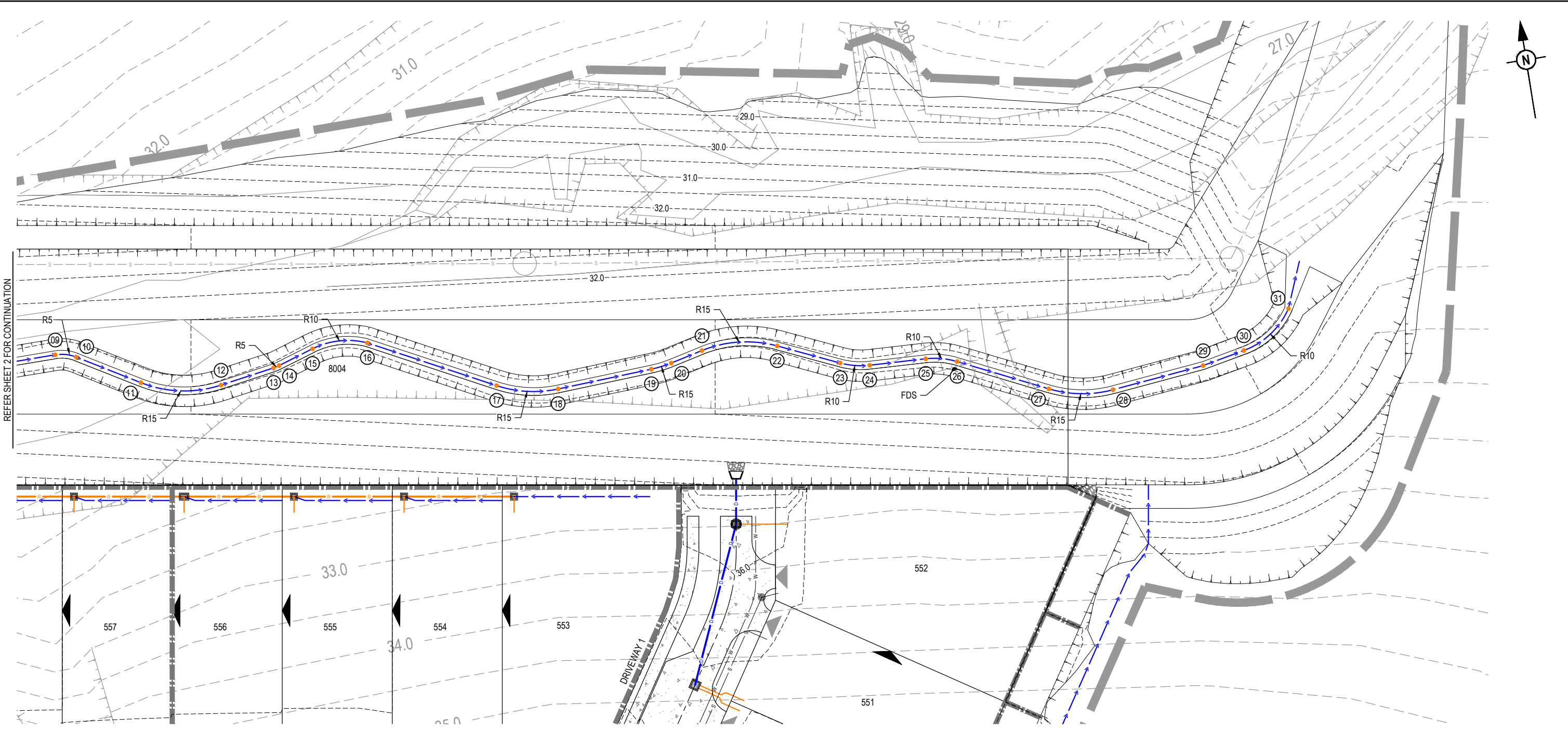
REFER SHEET 1 FOR CONTINUATION

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *Scott Thomas* Date: 02/12/22  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Colliers Engineering and Design

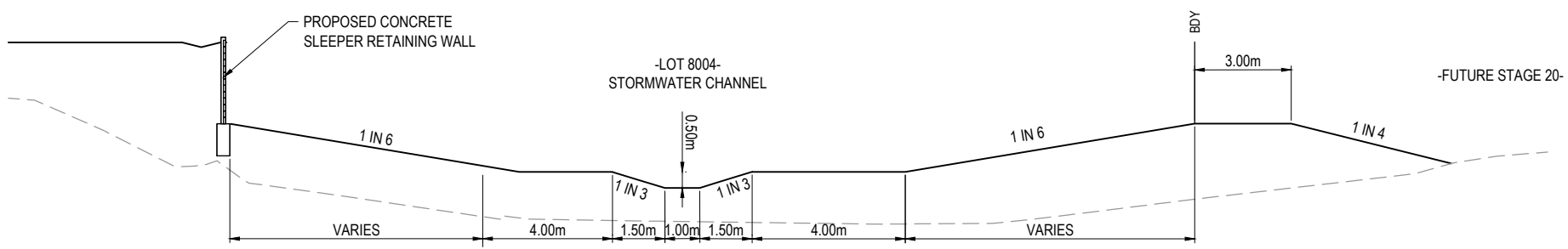
**SWALE SETOUT**

POINT	EASTING	NORTHING
01	6262.611	4252.378
02	6271.613	4250.339
03	6275.160	4248.235
04	6283.121	4247.252
05	6292.704	4250.111
06	6300.273	4249.350
07	6305.198	4246.721
08	6309.987	4245.542
09	6316.827	4245.596
10	6319.414	4244.899
11	6327.039	4240.383
12	6337.064	4238.480
13	6344.010	4239.597
14	6344.737	4239.771
15	6349.277	4241.220
16	6356.293	4240.871

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>REVISION DETAILS</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>17.01.22</td> <td>CL</td> <td>CL</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> <tr> <td>B</td> <td>01.11.22</td> <td>CL</td> <td>TP</td> <td>AS CONSTRUCTED</td> </tr> </tbody> </table>	REV	DATE	DESIGN	DRAWN	REVISION DETAILS	A	17.01.22	CL	CL	ISSUED FOR CONSTRUCTION	B	01.11.22	CL	TP	AS CONSTRUCTED	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; color: red; font-weight: bold;">AS CONSTRUCTED</td> </tr> <tr> <td style="text-align: center;">           APPROVED  <b>SCOTT THOMAS</b> </td> </tr> <tr> <td style="text-align: center;">           RPEQ 04618  <small>THE DESIGN HAS BEEN PREVIOUSLY CERTIFIED BY PEAKURBAN AND APPROVED BY URBAN UTILITIES</small> </td> </tr> </table>	AS CONSTRUCTED	APPROVED <b>SCOTT THOMAS</b>	RPEQ 04618 <small>THE DESIGN HAS BEEN PREVIOUSLY CERTIFIED BY PEAKURBAN AND APPROVED BY URBAN UTILITIES</small>		<p>SCALE</p> <p>1:250 5 0 5 10 A1</p> <p>1:500 5 0 5 10 A3</p>	<p>CLIENT</p> <p style="text-align: center; font-weight: bold;">CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</p> <p style="text-align: center; font-size: small;">ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744</p>	<p>PROJECT NAME</p> <p style="text-align: center; font-weight: bold;">WOODLINKS VILLAGE - STAGE 19</p> <p style="text-align: center; font-size: small;">COLLINGWOOD DRIVE COLLINGWOOD PARK</p>	<p>DRAWING TITLE</p> <p style="text-align: center; font-weight: bold;">SWALE LAYOUT PLAN SHEET 2 OF 3</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr> <td>PROJECT No.</td> <td>DRAWING No.</td> <td>REVISION</td> </tr> <tr> <td style="text-align: center;">21-0132</td> <td style="text-align: center;">201</td> <td style="text-align: center;">B</td> </tr> </table>	PROJECT No.	DRAWING No.	REVISION	21-0132	201	B
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PROJECT No.	DRAWING No.	REVISION																												
21-0132	201	B																												



REFER SHEET 2 FOR CONTINUATION



**TYPICAL OPEN SWALE SECTION**  
 SCALE 1:100 (A1)  
 SCALE 1:200 (A3)

**SWALE SETOUT**

POINT	EASTING	NORTHING
17	6371.684	4232.917
18	6379.355	4231.264
19	6391.468	4231.898
20	6394.093	4232.270
21	6398.189	4233.226
22	6407.745	4232.302
23	6415.318	4228.900
24	6418.986	4228.031
25	6426.152	4227.723
26	6430.043	4226.751
27	6441.041	4221.482
28	6449.088	4220.092
29	6460.883	4221.331
30	6466.313	4222.414
31	6472.749	4226.782

**WARNING! - EXISTING SERVICES**

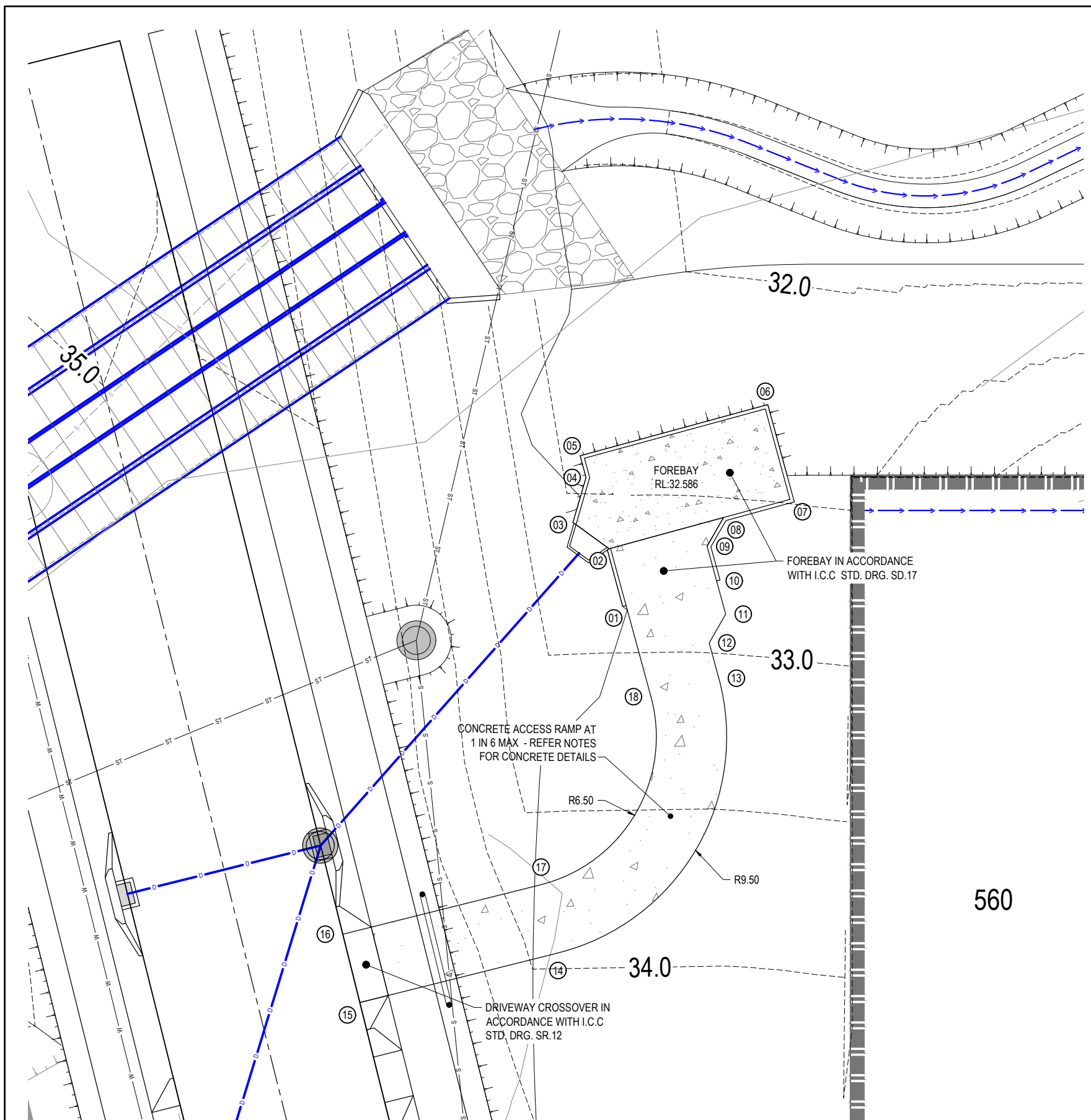
EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *Scott Thomas* Date: 02/12/22  
 SCOTT THOMAS RPEQ No. 04618  
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A	17.01.22	CL	CL	ISSUED FOR CONSTRUCTION				1:250 1:500	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 19	SWALE LAYOUT PLAN SHEET 3 OF 3
B	01.11.22	CL	TP	AS CONSTRUCTED		<b>AS CONSTRUCTED</b>			ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. <b>21-0132</b>
						APPROVED SCOTT THOMAS RPEQ 04618					DRAWING No. <b>202</b>
						THE DESIGN HAS BEEN PREVIOUSLY CERTIFIED BY PEAKURBAN AND APPROVED BY URBAN UTILITIES					REVISION <b>B</b>



**FOREBAY / DRIVEWAY SETOUT**

POINT No.	EASTING	NORTHING
01	6263.313	4231.711
02	6263.039	4234.227
03	6261.739	4235.457
04	6262.635	4237.352
05	6262.542	4238.197
06	6270.495	4239.065
07	6270.929	4235.088
08	6268.009	4234.770
09	6267.124	4233.667
10	6267.290	4232.145
11	6267.449	4230.685
12	6266.563	4229.582
13	6266.733	4228.031
14	6258.117	4217.537
15	6249.435	4216.777
16	6249.173	4219.766
17	6257.855	4220.525
18	6263.750	4227.705

**LEGEND**

- PROPOSED BATTER LINE
- PROPOSED ENERGEX BLOCKWORK RETAINING WALL
- PROPOSED SETOUT POINT
- PROPOSED FINISHED SURFACE LEVEL
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED LOCKABLE RAIL TO COUNCIL STANDARDS

**WARNING! - EXISTING SERVICES**

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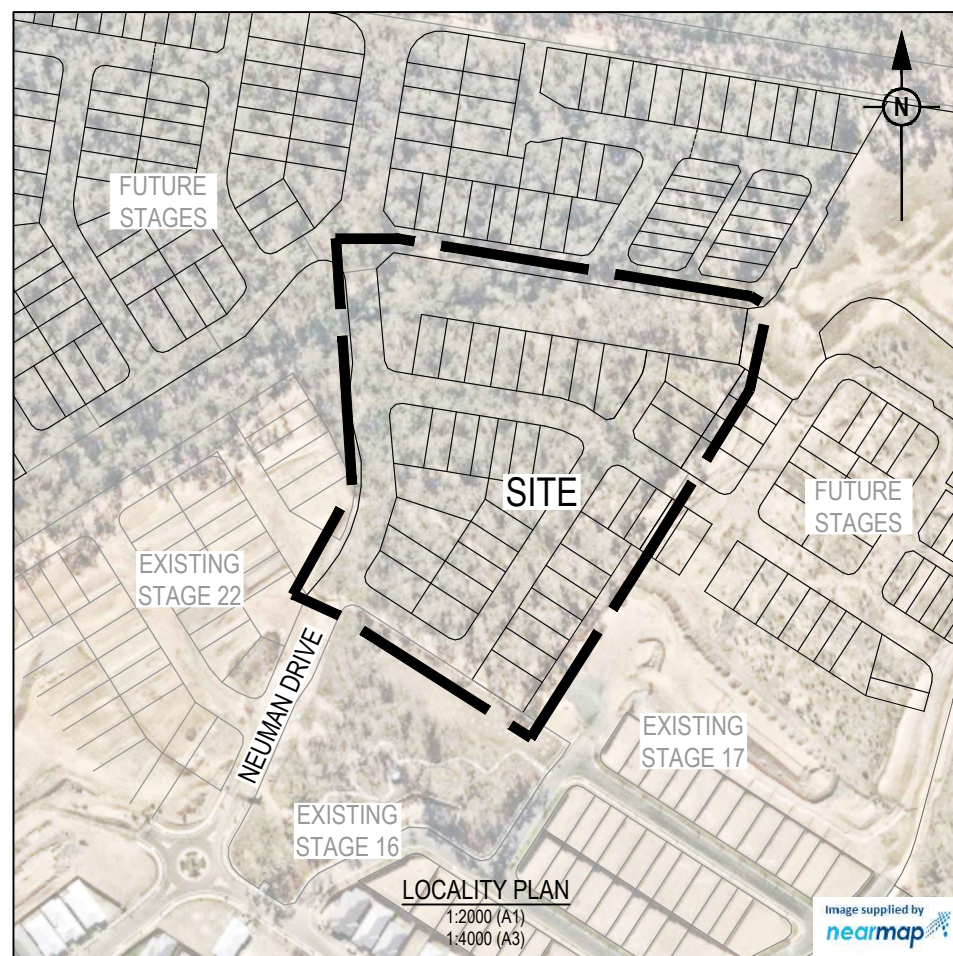
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Signature: *Scott Thomas* Date: 02/12/22  
**SCOTT THOMAS** RPEQ No. 04618  
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21-0132	203	<b>B</b>																															



NAME OF ESTATE	WOODLINKS STAGE 19	
SUBDIVIDER	CANNBERRA ESTATES CONSORTIUM NO. 36 PTY LTD	
URBAN UTILITIES APPLICATION No.	21-PNT-53050	
URBAN UTILITIES APPROVAL DATE	-	
DRAWING/PLAN No.	21-0132-300-303	
No. OF ALLOTMENTS	40	
AREA	3.80 ha	
LENGTH OF SEWERS	DN110 PE100	100m 109m
	DN160 PE100	630m 568m
	DN315 PE100	61m

**ENVIRONMENTAL CONDITIONS**

**VEGETATION PROTECTION**

- A. TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- B. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- C. TREE ROOTS SHALL BE TUNNELED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- D. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

**SOIL**

- A. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- B. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

**CREEK CROSSINGS**

- A. SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
- B. APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
- C. NO SOIL SHALL BE STOCKPILED WITHIN 5m OF THE CREEK.

**REHABILITATION**

- A. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- B. PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

**SEWERAGE RETICULATION DRAWING INDEX**

21-0132-300	SEWERAGE RETICULATION COVER PLAN
21-0132-301	SEWERAGE RETICULATION LAYOUT PLAN
21-0132-302	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SH
21-0132-303	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SH
21-0132-304	SEWERAGE RETICULATION CROSS SECTIONS

**GENERAL NOTES:**

- THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, PLANT STRICTLY IN ACCORDANCE WITH THE RELEVANT AUTHORITY STANDARDS.
- EXISTING SERVICES RELEVANT TO THE PROJECT HAVE BEEN CONFIRMED BY THE SURVEYOR AND THE CONTRACTOR. THE RPEQ WHO CERTIFIED THE DESIGN OR THE PRINCIPAL'S CONSTRUCTION RPEQ HAVE RELIED UPON THIS INFORMATION TO INFORM THE DESIGN. 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 DESIGN AND 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.
- THE CONTRACTOR SHALL NOT COMMENCE THE DEMOLITION OF ANY EXISTING BUILDINGS AND/OR STRUCTURES WITHOUT APPROVAL FROM THE SUPERINTENDENT.
- 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.
- THE CERTIFICATION OF THIS DESIGN IS BASED ON SURVEY AND POTHOLE INFORMATION PROVIDED BY THE SURVEYOR AND/OR CONTRACTOR AT THE TIME OF DESIGN. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL VERIFY LEVELS OF EXISTING SERVICE CROSSINGS AND CONNECTION POINTS AND NOTIFY THE RPEQ WHO CERTIFIED THE DESIGN OR THE PRINCIPAL'S CONSTRUCTION RPEQ OF ANY DISCREPANCIES BETWEEN ACTUAL AND PROPOSED DESIGN LEVELS. THE CERTIFICATION OF THIS DESIGN IS BASED ON SURVEY AND POTHOLE INFORMATION PROVIDED BY THE SURVEYOR AND CONTRACTOR AT THE TIME OF DESIGN.
- 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 HAVE BEEN POURED, CONSTRUCTION SHALL ONLY RE-COMMENCE ONCE THE SUPERINTENDENT AND/OR ENGINEER HAVE INSPECTED THE WORKS.
- 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 DURING THE PRE-START, 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.

**ENGINEER'S CERTIFICATION**

I, Scott Thomas, hereby certify that:

- The information contained in this drawing / document is in compliance with approved drawings and design.
- The new water and sewerage works defined by this drawing have been designed and constructed in accordance with the SEQ code.
- This generally represents an accurate record of as-constructed works
- I accept responsibility for the information contained in this drawing / document.

S. Thomas  
RPEQ (signature) RPEQ No. 04618 Date: 17/08/22

**LIVE SEWER WORKS**

No.	DESCRIPTION	DIA. SEWER	EXISTING ASSET ID AT CONNECTION	MH/MS TYPE	COVER TYPE	LOT & PLAN No.	F.S.L.	E.S.L.	CONNECTION I.L.	CONNECTION DEPTH TO INVERT (m)	ALTERATION TO EXISTING MH BENCHING REQUIRED (Y/N)
1 (A)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO REMOVED AND REPLACE MAINTENANCE HOLE MH406125, WITH TYPE 'X' MAINTENANCE HOLE	DN315 PE100	MH406125	MH	D(BD)	-	33.473	31.460	28.790	4.683	Y
1 (B)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO CONSTRUCT A 300mm STUB (TEMPORARY END CAPPED) IN EX1/T1 (MH406125).										
1 (C)	0.50m FROM EXISTING STUB, CONSTRUCTOR TO LAY NEW RETICULATION SEWERS. AFTER CLEANSING, TESTING AND INSPECTION, NOTIFY URBAN UTILITIES.										
1 (D)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO REMOVE TEMPORARY END CAP ON EXISTING STUB AND MAKE LIVE CONNECTION AFTER SUCCESSFUL 'ON MAINTENANCE' INSPECTION.										
2 (A)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO REMOVED AND REPLACE MAINTENANCE HOLE MH406123, WITH TYPE 'X' MAINTENANCE HOLE	DN315 PE100	MH406122	MH	D(BD)	-	32.840	32.680	27.970	4.870	Y
2 (B)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO CONSTRUCT A 300mm STUB (TEMPORARY END CAPPED) IN EX2/T1 (MH406122).										
2 (C)	0.50m FROM EXISTING STUB, CONSTRUCTOR TO LAY NEW RETICULATION SEWERS. AFTER CLEANSING, TESTING AND INSPECTION, NOTIFY URBAN UTILITIES.										
2 (D)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO REMOVE TEMPORARY END CAP ON EXISTING STUB AND MAKE LIVE CONNECTION AFTER SUCCESSFUL 'ON MAINTENANCE' INSPECTION.										
3 (A)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO REMOVED AND REPLACE MAINTENANCE HOLE MH406128, WITH TYPE 'X' MAINTENANCE HOLE	DN315 PE100	MH406128	MH	D(BD)	-	35.454	32.990	30.510	4.944	N
4 (A)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO REMOVED AND REPLACE MAINTENANCE HOLE MH406127, WITH TYPE 'X' MAINTENANCE HOLE	DN315 PE100	MH406127	MH	D(BD)	-	34.480	32.070	29.390	5.090	N
5 (A)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO REMOVED AND REPLACE MAINTENANCE HOLE MH406122, WITH TYPE 'X' MAINTENANCE HOLE	DN315 PE100	MH406122	MH	D(BD)	-	33.118	32.310	27.930	5.188	Y
6 (A)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO REMOVED AND REPLACE MAINTENANCE HOLE MH406121, WITH TYPE 'X' MAINTENANCE HOLE	DN315 PE100	MH406121	MH	D(BD)	-	32.473	29.140	26.640	5.833	N
7 (A)	CONSTRUCTOR, UNDER URBAN UTILITIES SUPERVISION, TO RAISE EXISTING MAINTENANCE HOLE MH406120 BY 0.270m	DN315 PE100	MH406120	MH	D(BD)	-	28.445	29.120	25.520	2.925	N

**NOTE:**  
ALL EXISTING MANHOLE DENOTED TO BE RAISED INSIDE THE STORMWATER DRAINAGE CORRIDOR, MUST BE ABOVE THE Q100 FLOOD LEVEL.

**LIVE WORKS NOTES:**  
1. ALL WORK ON EXISTING SEWERS TO BE CARRIED OUT BY THE CONTRACTOR (IN ACCORDANCE WITH AN APPROVED NETWORKS ACCESS PERMIT) UNDER URBAN UTILITIES SUPERVISION, AT THE DEVELOPERS EXPENSE.  
2. LIVE WORKS CANNOT COMMENCE UNTIL ALL RELEVANT TEST CERTIFICATES HAVE BEEN PROVIDED AND ACCEPTED BY URBAN UTILITIES.

**DETAILS OF PROPOSED SEWER SEQ CODE VARIATIONS**

No.	SEQ CODE CLAUSE	DETAILS FOR PROPOSED VARIATION	REASONS OF PROPOSED VARIATION
1	5.6.5.4	LOTS 553, 557 - PROPERTY CONNECTION LEVEL IS DEEPER THAN 1.50m (PROPOSED 1.80m DEEP)	IN ACCORDANCE WITH CLAUSE 5.6.5.4 (b) LOTS 553, 557 WARRANT CONNECTIONS DEEPER THAN 1.5m TO ENSURE LOTS CAN BE SERVICED FROM ROAD RESERVE IN LIEU OF REAR LOT PRIVATE PROPERTY RETICULATION SEWERS.

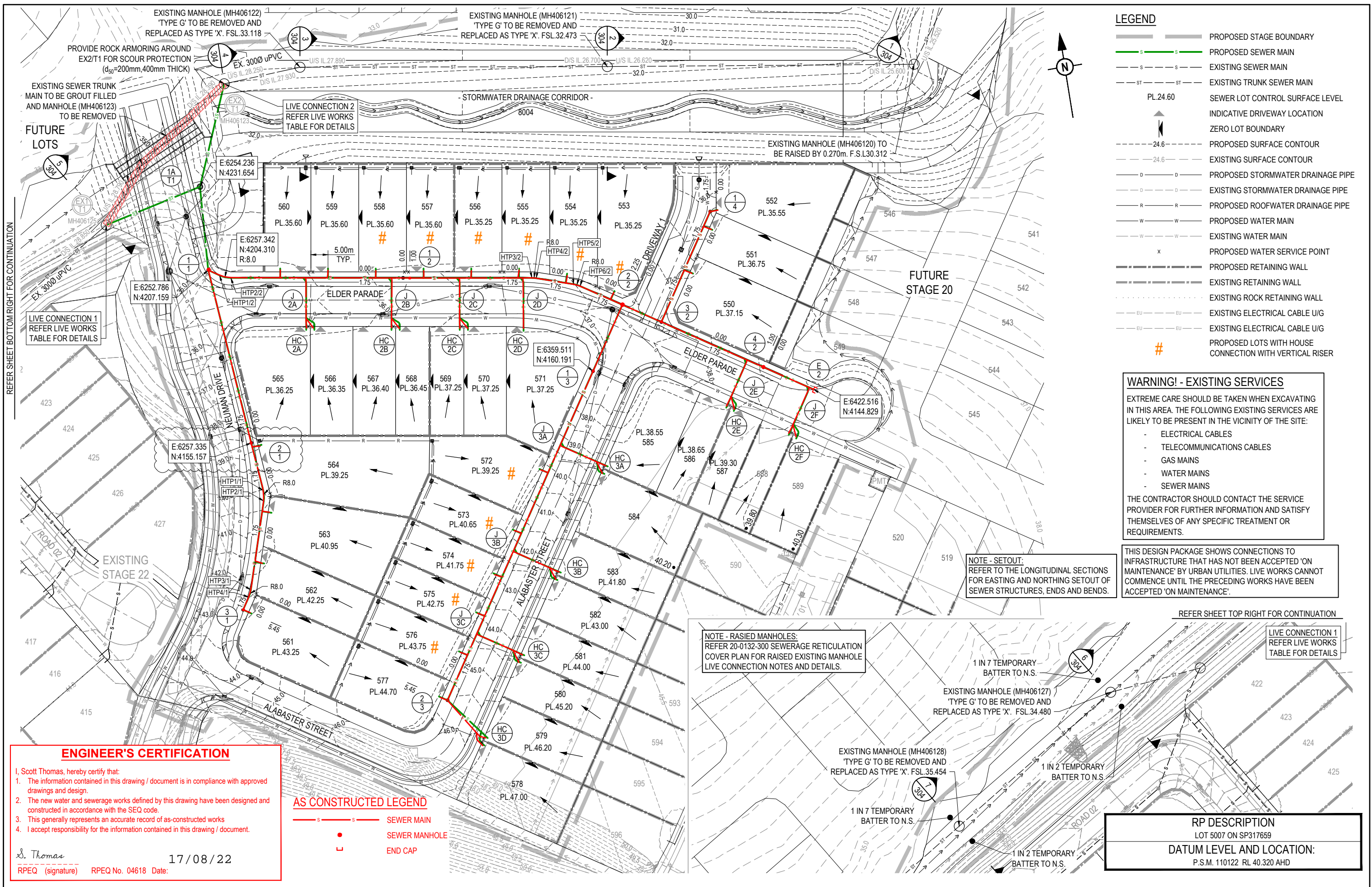
ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK COMMENCING, INCLUDING CLEARING

ALL WATER AND SEWERAGE CONSTRUCTION SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH OF PROPERTY CONNECTION AT 1.5m UNLESS OTHERWISE STATED. FOR JUNCTION DETAILS REFER SEQ-SEW-1106-1 TO SEQ-SEW-1106-6.

THIS DESIGN PACKAGE SHOWS CONNECTIONS TO INFRASTRUCTURE THAT HAS NOT BEEN ACCEPTED 'ON-MAINTENANCE' BY URBAN UTILITIES LIVE-WORKS CANNOT COMMENCE UNTIL THE PRECEDING WORKS HAVE BEEN ACCEPTED 'ON MAINTENANCE' BY URBAN UTILITIES

<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>REVISION DETAILS</th> </tr> <tr> <td>A</td> <td>21.02.22</td> <td>CL</td> <td>MPG</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> <tr> <td>B</td> <td>08.03.22</td> <td>CL</td> <td>CL</td> <td>VARIATION TABLE ADDED</td> </tr> <tr> <td>C</td> <td>16.08.22</td> <td>NS</td> <td>NS</td> <td>AS CONSTRUCTED</td> </tr> </table>	REV	DATE	DESIGN	DRAWN	REVISION DETAILS	A	21.02.22	CL	MPG	ISSUED FOR CONSTRUCTION	B	08.03.22	CL	CL	VARIATION TABLE ADDED	C	16.08.22	NS	NS	AS CONSTRUCTED	<p style="text-align: center;"><b>AS CONSTRUCTED "FOR BUILDER PURPOSES"</b></p> <p style="text-align: center;">DESIGN APPROVED <b>SCOTT THOMAS</b></p> <p style="text-align: center;">RPEQ 04618</p> <p style="text-align: center;">FOR AND ON BEHALF OF PEAKURBAN PTY LTD</p>	<p style="text-align: center;"><b>PEAKURBAN</b> Achieve more.</p> <p style="text-align: center;">ENQUIRIES@PEAKURBAN.COM.AU</p>	<p>SCALE</p> <p>1:2000 20 0 20 40 60 80 100 A1 1:4000</p>	<p>CLIENT</p> <p style="text-align: center;"><b>CANNBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b></p> <p>ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744</p>	<p>PROJECT NAME</p> <p style="text-align: center;"><b>WOODLINKS VILLAGE - STAGE 19</b></p> <p>COLLINGWOOD DRIVE COLLINGWOOD PARK</p>	<p>DRAWING TITLE</p> <p style="text-align: center;"><b>SEWERAGE RETICULATION COVER PLAN</b></p> <p>PROJECT No. <b>21-0132</b> DRAWING No. <b>300</b> REVISION <b>C</b></p>
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C	16.08.22	NS	NS	AS CONSTRUCTED																						



**LEGEND**

	PROPOSED STAGE BOUNDARY
	PROPOSED SEWER MAIN
	EXISTING SEWER MAIN
	EXISTING TRUNK SEWER MAIN
	SEWER LOT CONTROL SURFACE LEVEL
	INDICATIVE DRIVEWAY LOCATION
	ZERO LOT BOUNDARY
	PROPOSED SURFACE CONTOUR
	EXISTING SURFACE CONTOUR
	PROPOSED STORMWATER DRAINAGE PIPE
	EXISTING STORMWATER DRAINAGE PIPE
	PROPOSED ROOFWATER DRAINAGE PIPE
	PROPOSED WATER MAIN
	EXISTING WATER MAIN
	PROPOSED WATER SERVICE POINT
	PROPOSED RETAINING WALL
	EXISTING RETAINING WALL
	EXISTING ROCK RETAINING WALL
	EXISTING ELECTRICAL CABLE U/G
	EXISTING ELECTRICAL CABLE U/G
	PROPOSED LOTS WITH HOUSE CONNECTION WITH VERTICAL RISER

**WARNING! - EXISTING SERVICES**

EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

THIS DESIGN PACKAGE SHOWS CONNECTIONS TO INFRASTRUCTURE THAT HAS NOT BEEN ACCEPTED 'ON MAINTENANCE' BY URBAN UTILITIES. LIVE WORKS CANNOT COMMENCE UNTIL THE PRECEDING WORKS HAVE BEEN ACCEPTED 'ON MAINTENANCE'.

**NOTE - SETOUT:**  
REFER TO THE LONGITUDINAL SECTIONS FOR EASTING AND NORTHING SETOUT OF SEWER STRUCTURES, ENDS AND BENDS.

**NOTE - RAISED MANHOLES:**  
REFER 20-0132-300 SEWERAGE RETICULATION COVER PLAN FOR RAISED EXISTING MANHOLE LIVE CONNECTION NOTES AND DETAILS.

**ENGINEER'S CERTIFICATION**

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*S. Thomas* 17/08/22  
RPEQ (signature) RPEQ No. 04618 Date:

**AS CONSTRUCTED LEGEND**

	SEWER MAIN
	SEWER MANHOLE
	END CAP

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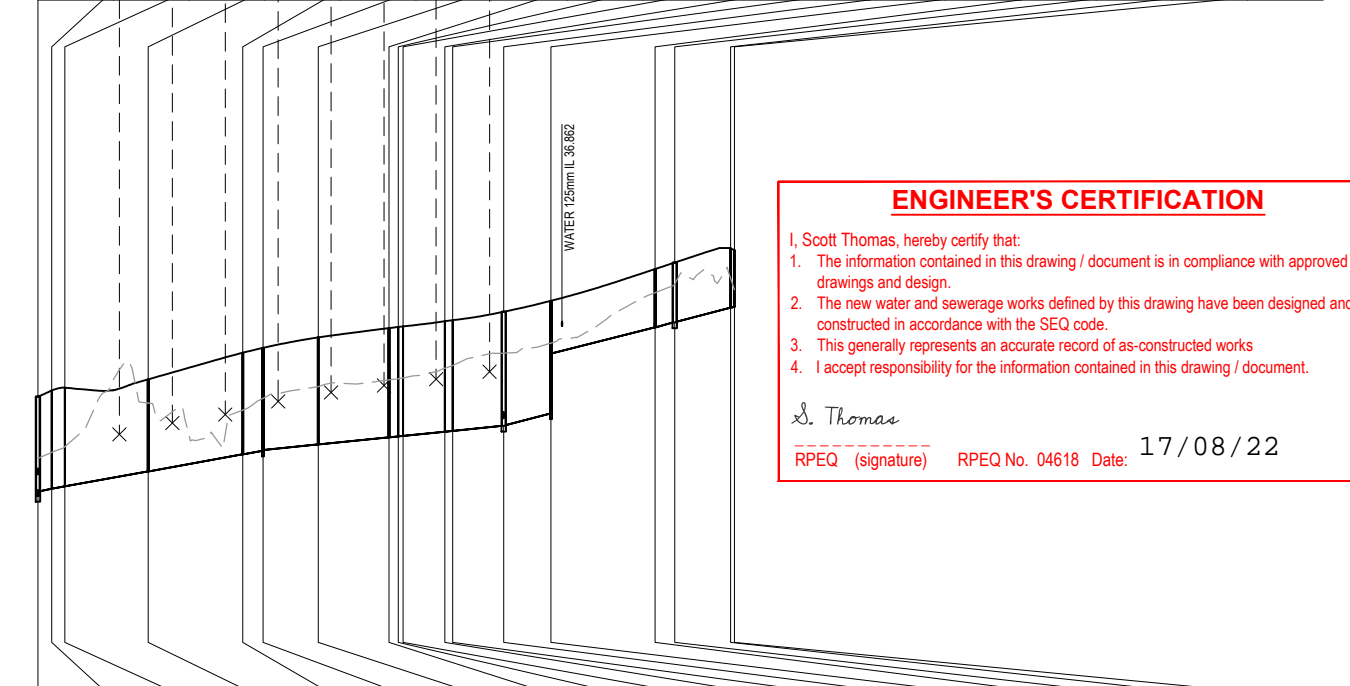
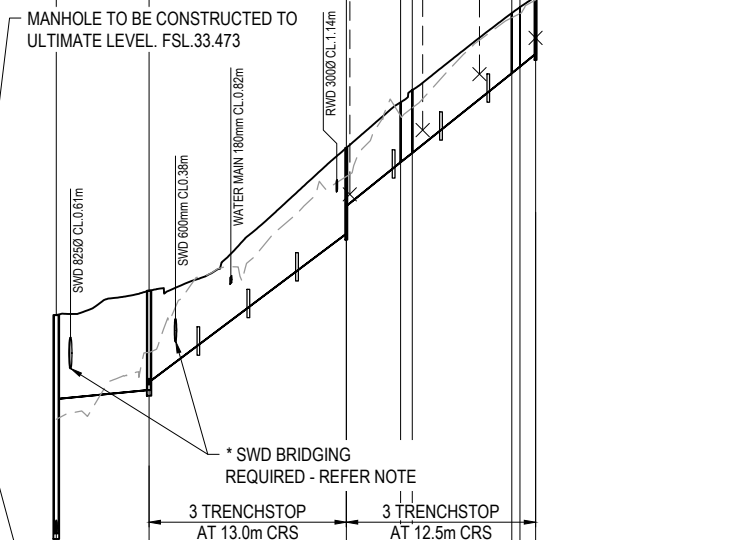
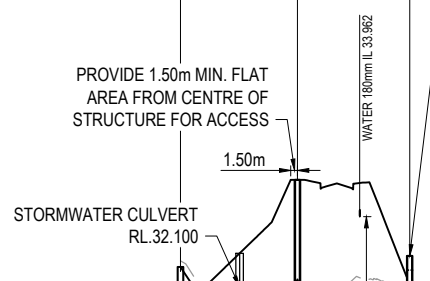
STRUC/ BEND/ END NAME	(PE LINED) EX2/T1	(PE LINED) 1A/T1	(PE LINED) EX1/T1	(PE LINED) 1A/T1	1/1	2/1	HTP1/1	HTP2/1	HTP3/1	HTP4/1	3/1	1/1	HTP1/2	HTP2/2	J/2A	J/2B	1/2	J/2C	J/2D	HTP3/2	HTP4/2	HTP5/2	HTP6/2	2/2	3/2	J/2E	4/2	J/2F	E/2
STRUCTURE TYPE	F	X	F	X	G	MS	HTP	HTP	HTP	HTP	MS	G	HTP	HTP	J	J	MS	J	J	HTP	HTP	HTP	HTP	G	MS	J	G	J	END
STRUCTURE LID TYPE	D(BD)	D	D(BD)	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
STRUCTURE DROP TYPE	A	A	A	A	A	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	A	A	
JUNCTION LINE		LINE 1		LINE 1	LINE 2							LINE 2			LINE 2A	LINE 2B			LINE 2C	LINE 2D					LINE 3	LINE 4	LINE 2E	LINE 2F	
DEPTH TO HC																													
HC INVERT LEVEL																													
HC TYPE																													
HC LOT No																													
CH. FROM D/S STRUC/ BEND																													

STRUCTURE TYPES  
G = CONCRETE 0.900Ø  
F = CONCRETE 1.200Ø  
X = CONCRETE 1.200Ø  
MS = PE 0.600Ø  
MH DROP TYPES:  
AS PER SEQ STD DRG SEQ-SEW-1303-1  
MS DROP TYPES:  
MS-A = 20mm DROP THROUGH BULB  
MS-B = >750mm DROP INTO RISER  
LID TYPES  
B = NON-TRAFFICABLE  
D = TRAFFICABLE  
D(BD) = TRAFFICABLE WITH BOLT DOWN

NOTE: PE LINING OF MANHOLES:  
MAINTENANCE HOLES ≥ 1500Ø IN DIA OR ≥ 4.0m IN DEPTH,  
REQUIRE PE LINED PROTECTIVE COATING (PE LINED)

# EMBEDMENT NOTE:  
PIPE EMBEDMENT & TRENCHFILL SHALL BE IN ACCORDANCE  
WITH SEQ-SEW-1200-2, 1201-1 TO 1201-5. AS PER URBAN  
UTILITIES MAJOR WORKS TECHNICAL GUIDELINE, SECTION  
6.5.1, TYPE 4 SUPPORT IS PROPOSED UNTIL FINAL  
GEOTECHNICAL INVESTIGATIONS ARE COMPLETED AND  
PROVIDED TO URBAN UTILITIES PRIOR TO CONSTRUCTION.

\* STORMWATER BRIDGING NOTE:  
WHERE A STORMWATER PIPE ≥ 600mm DIA CROSSES OVER  
A SEWER, THE STORMWATER PIPE SHALL BE SUPPORTED  
BY A BRIDGE STRUCTURE THAT SPANS THE SEWER  
TRENCH. REFER PEAK URBAN STD DRG S-100.



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S. Thomas  
RPEQ (signature) RPEQ No. 04618 Date: 17/08/22

LINE	22.0	25.0	26.0
LAND USE	CHANNEL	ROAD RESERVE	ROAD RESERVE
DIAMETER	DN315 PE 100 SDR21	DN160 PE 100 SDR21	DN160 PE 100 SDR21
GRADE	1 in 91.05	1 in 107	1 in 55.56
EMBEDMENT TYPE	TYPE 4#	TYPE 4#	TYPE 4#
DEPTH TO INVERT	4.870	5.773	2.630
JUNCTION INVERT LEVEL			
SEWER INVERT LEVEL	27.970	28.650	32.372
DESIGN SURFACE LEVEL	32.840	33.473	36.002
SETOUT	6265.970	6254.236	6252.786
RUNNING CHAINAGE	0.000	0.000	0.000

<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>REVISION DETAILS</th> </tr> <tr> <td>A</td> <td>21.02.22</td> <td>CL</td> <td>MPG</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> <tr> <td>B</td> <td>08.03.22</td> <td>CL</td> <td>NS</td> <td>HOUSE CONNECTION TYPE AND LEVELS UPDATED FOR LINE 2</td> </tr> <tr> <td>C</td> <td>16.08.22</td> <td>NS</td> <td>NS</td> <td>AS CONSTRUCTED</td> </tr> </table>	REV	DATE	DESIGN	DRAWN	REVISION DETAILS	A	21.02.22	CL	MPG	ISSUED FOR CONSTRUCTION	B	08.03.22	CL	NS	HOUSE CONNECTION TYPE AND LEVELS UPDATED FOR LINE 2	C	16.08.22	NS	NS	AS CONSTRUCTED	<table border="1"> <tr> <th>DRAWN</th> <th>STATUS</th> </tr> <tr> <td>AS CONSTRUCTED "FOR BUILDER PURPOSES"</td> <td></td> </tr> </table>	DRAWN	STATUS	AS CONSTRUCTED "FOR BUILDER PURPOSES"			<table border="1"> <tr> <th>SCALE</th> </tr> <tr> <td>1:1000 10 0 10 20 30 40 50 A1</td> </tr> <tr> <td>1:2000 2 1 0 2 4 A1</td> </tr> <tr> <td>1:100 2 1 0 2 4 A1</td> </tr> <tr> <td>1:200 2 1 0 2 4 A3</td> </tr> </table>	SCALE	1:1000 10 0 10 20 30 40 50 A1	1:2000 2 1 0 2 4 A1	1:100 2 1 0 2 4 A1	1:200 2 1 0 2 4 A3	<table border="1"> <tr> <th>CLIENT</th> </tr> <tr> <td>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</td> </tr> </table>	CLIENT	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	<table border="1"> <tr> <th>PROJECT NAME</th> </tr> <tr> <td>WOODLINKS VILLAGE - STAGE 19</td> </tr> </table>	PROJECT NAME	WOODLINKS VILLAGE - STAGE 19	<table border="1"> <tr> <th>DRAWING TITLE</th> </tr> <tr> <td>SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 1 OF 2</td> </tr> </table>	DRAWING TITLE	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 1 OF 2
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SAUNDERS HAVILL GROUP PH: 1300 123 744																																									
PROJECT No.	DRAWING No.	REVISION																																							
21-0132	302	C																																							

STRUC/ BEND/ END NAME

STRUCTURE TYPE  
 STRUCTURE LID TYPE  
 STRUCTURE DROP TYPE  
 JUNCTION LINE  
 DEPTH TO HC  
 HC INVERT LEVEL  
 HC TYPE  
 HC LOT No  
 CH. FROM D/S STRUC/ BEND

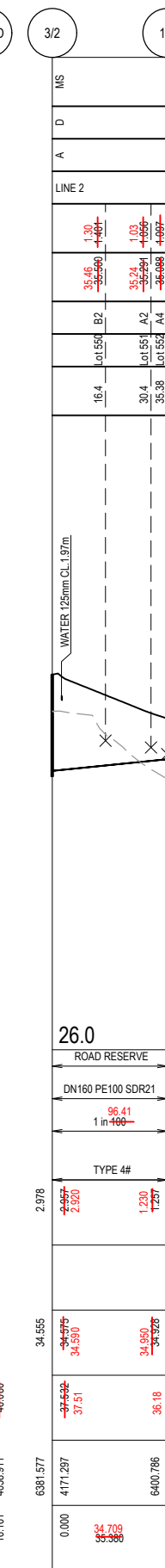
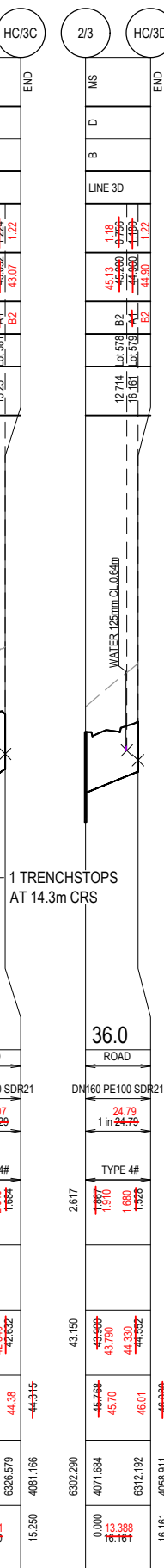
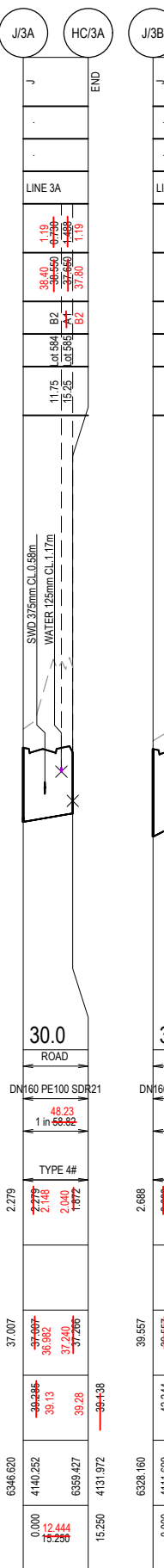
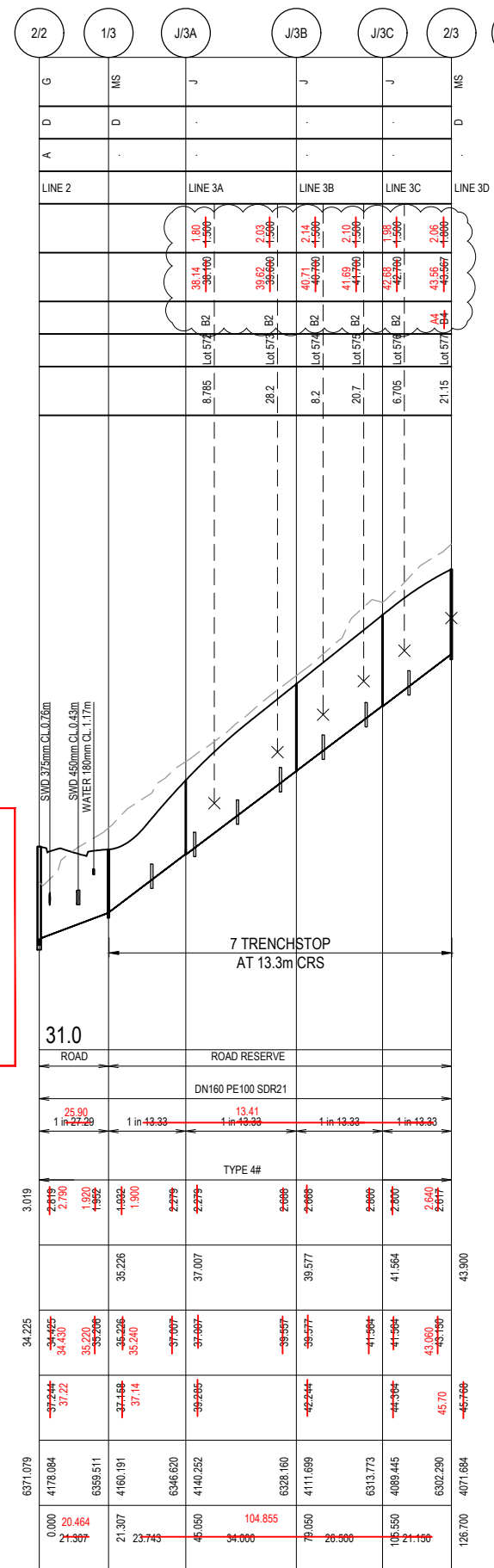
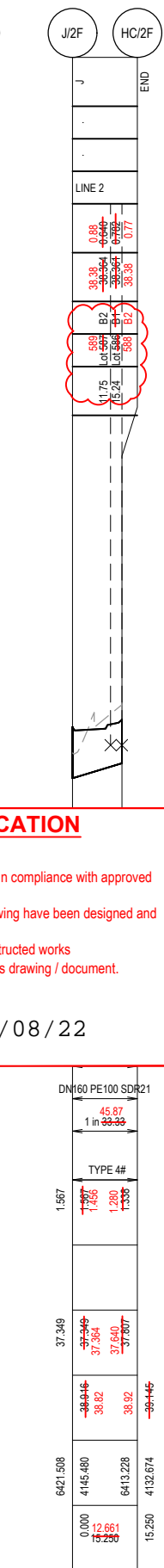
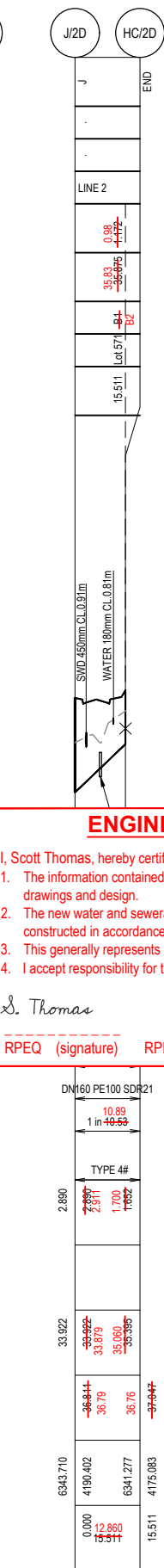
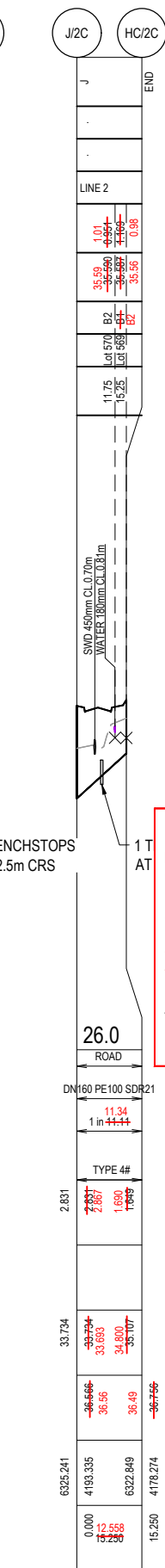
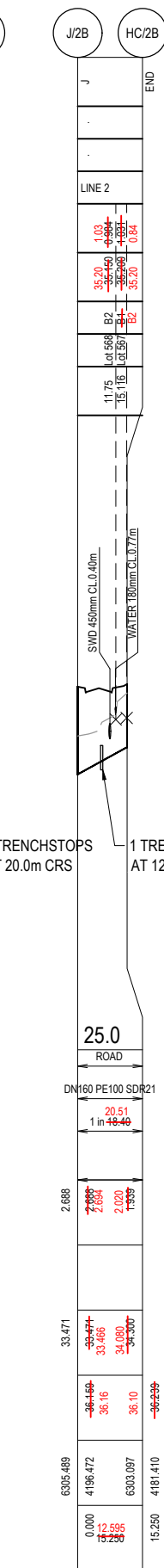
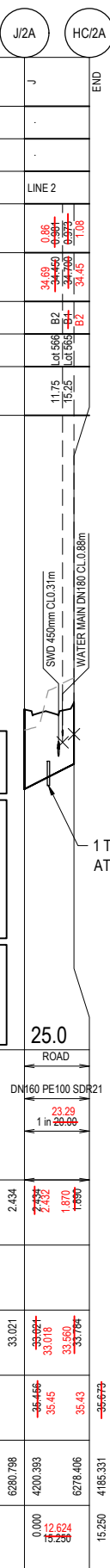
STRUCTURE TYPES  
 G = CONCRETE 0.9000  
 F = CONCRETE 1.2000  
 X = CONCRETE 1.2000  
 MS = PE 0.6000  
 MH DROP TYPES:  
 AS PER SEQ STD DRG SEQ-SEW-1303-1  
 MS DROP TYPES:  
 MS-A = 20mm DROP THROUGH BULB  
 MS-B = >750mm DROP INTO RISER  
 LID TYPES  
 B = NON-TRAFFICABLE  
 D = TRAFFICABLE  
 D(BD) = TRAFFICABLE WITH BOLT DOWN

NOTE: PE LINING OF MANHOLES:  
 MAINTENANCE HOLES ≥ 1500mm IN DIA OR ≥ 4.0m IN DEPTH,  
 REQUIRE PE LINED PROTECTIVE COATING

# EMBEDMENT NOTE:  
 PIPE EMBEDMENT & TRENCHFILL SHALL BE IN ACCORDANCE  
 WITH SEQ-SEW-1200-2, 1201-1 TO 1201-5. AS PER URBAN  
 UTILITIES MAJOR WORKS TECHNICAL GUIDELINE, SECTION  
 6.5.1. TYPE 4 SUPPORT IS PROPOSED UNTIL FINAL  
 GEOTECHNICAL INVESTIGATIONS ARE COMPLETED AND  
 PROVIDED TO URBAN UTILITIES PRIOR TO CONSTRUCTION.

\* STORMWATER BRIDGING NOTE:  
 WHERE A STORMWATER PIPE ≥ 600mm DIA CROSSES OVER  
 A SEWER, THE STORMWATER PIPE SHALL BE SUPPORTED  
 BY A BRIDGE STRUCTURE THAT SPANS THE SEWER  
 TRENCH. REFER PEAK URBAN STD DRG S-100.

LAND USE  
 DIAMETER  
 GRADE  
 EMBEDMENT TYPE  
 DEPTH TO INVERT  
 JUNCTION INVERT LEVEL  
 SEWER INVERT LEVEL  
 DESIGN SURFACE LEVEL  
 SETOUT  
 RUNNING CHAINAGE



**ENGINEER'S CERTIFICATION**  
 I, Scott Thomas, hereby certify that:  
 1. The information contained in this drawing / document is in compliance with approved drawings and design.  
 2. The new water and sewerage works defined by this drawing have been designed and constructed in accordance with the SEQ code.  
 3. This generally represents an accurate record of as-constructed works  
 4. I accept responsibility for the information contained in this drawing / document.  
 S. Thomas  
 17/08/22  
 RPEQ (signature) RPEQ No. 04618 Date:

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	21.02.22	CL	MPG	ISSUED FOR CONSTRUCTION
B	08.03.22	CL	NS	HOUSE CONNECTION TYPE AND LEVELS UPDATED FOR LINE 3
C	16.08.22	NS	NS	AS CONSTRUCTED

DRAWN	STATUS
AS CONSTRUCTED "FOR BUILDER PURPOSES"	APPROVED SCOTT THOMAS RPEQ 04618



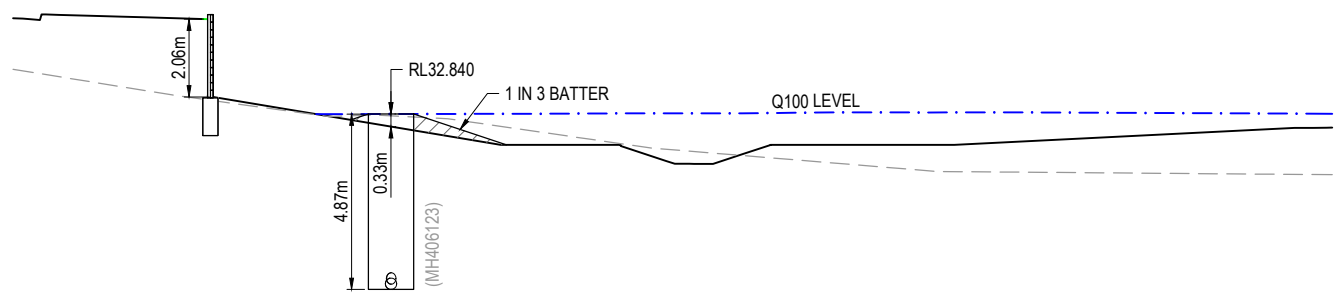
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1:2000 HORIZONTAL A3
1:100 2 1 0 2 4 A1
1:200 VERTICAL A3

CLIENT
CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED
ASSOCIATED CONSULTANT
SAUNDERS HAVILL GROUP PH: 1300 123 744

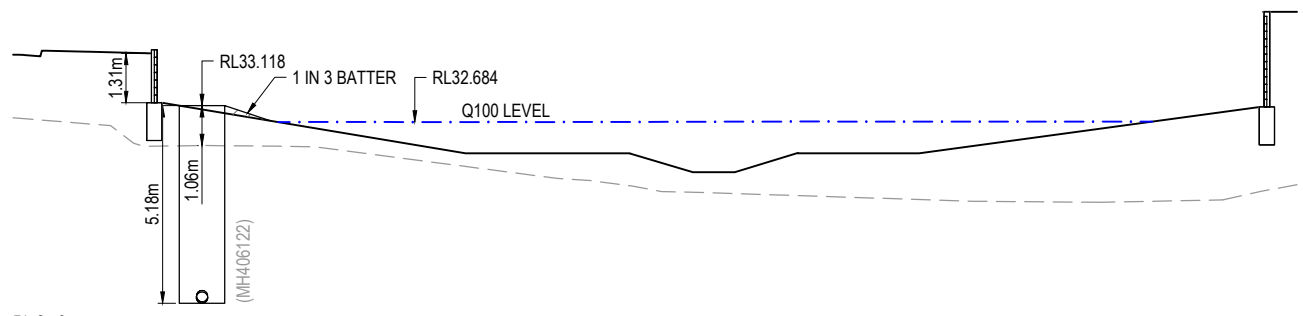
PROJECT NAME
WOODLINKS VILLAGE - STAGE 19
PROJECT No.
21-0132
DRAWING No.
303
REVISION
C

DRAWING TITLE
SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 2 OF 2
PROJECT No.
21-0132
DRAWING No.
303
REVISION
C

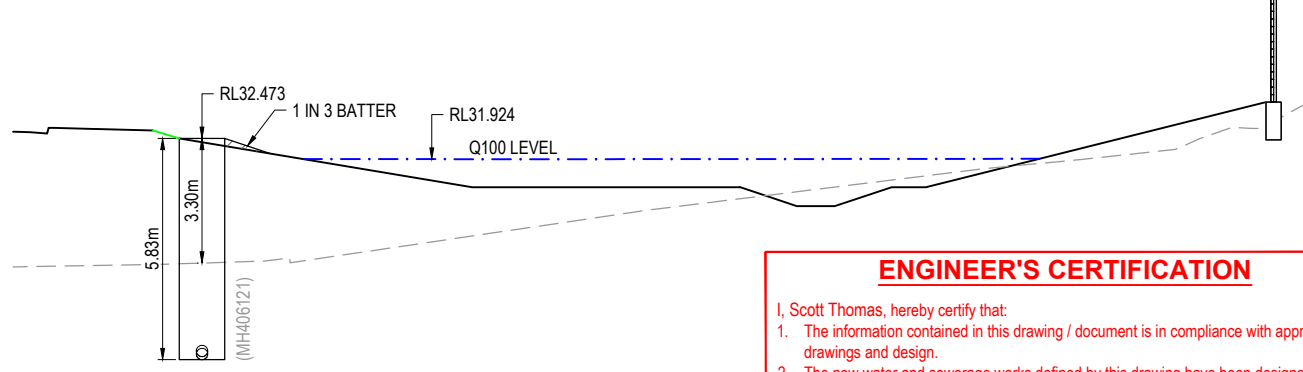




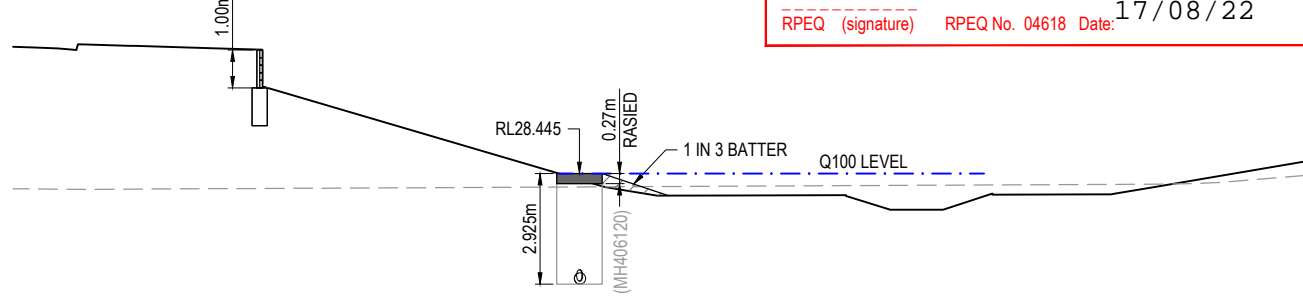
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SECTION 4  
SCALE 1:100 (A1)  
SCALE 1:200 (A3)



RL 27.0  
SECTION 3  
SCALE 1:100 (A1)  
SCALE 1:200 (A3)



RL 25.0  
SECTION 2  
SCALE 1:100 (A1)  
SCALE 1:200 (A3)



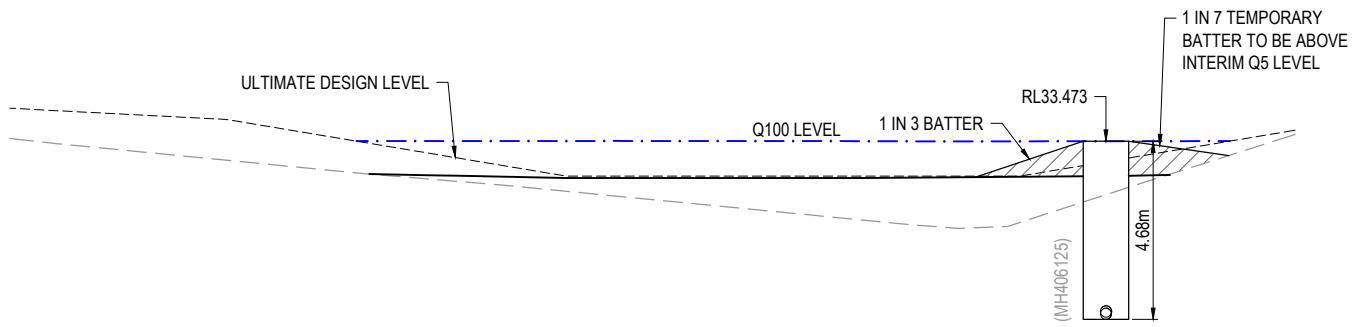
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SECTION 1  
SCALE 1:100 (A1)  
SCALE 1:200 (A3)

**ENGINEER'S CERTIFICATION**

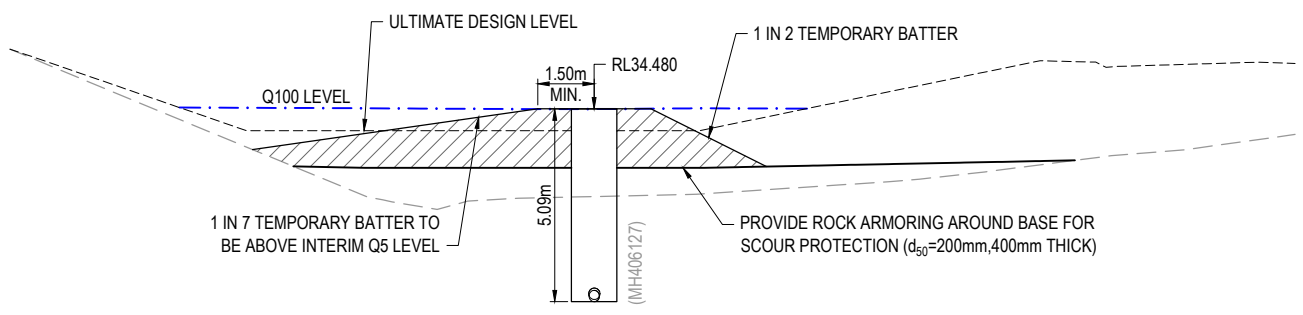
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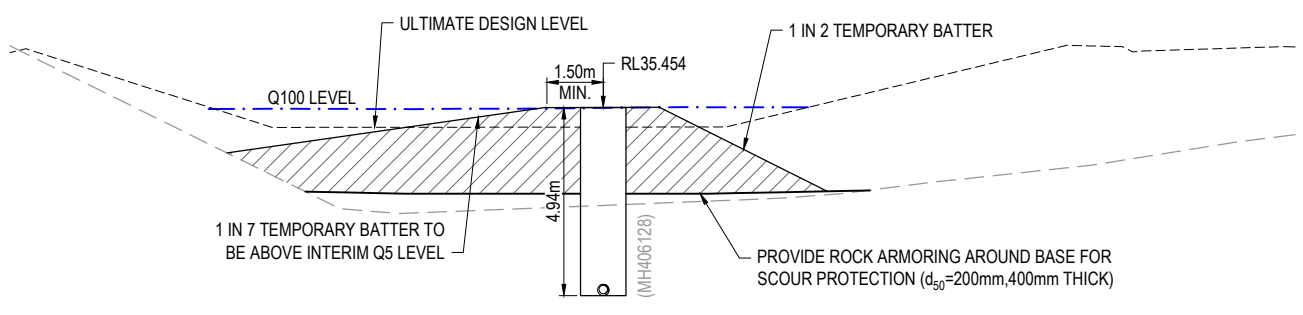
*S. Thomas*  
RPEQ (signature) RPEQ No. 04618 Date: 17/08/22



RL 27.0  
SECTION 5  
SCALE 1:100 (A1)  
SCALE 1:200 (A3)



RL 28.0  
SECTION 6  
SCALE 1:100 (A1)  
SCALE 1:200 (A3)



RL 29.0  
SECTION 7  
SCALE 1:100 (A1)  
SCALE 1:200 (A3)

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS
A	21.02.22	CL	MPG	ISSUED FOR CONSTRUCTION		
B	13.05.22	CL	CL	SECTION 1-4 AMENDED		
C	16.08.22	NS	NS	AS CONSTRUCTED		

DESIGN	APPROVED	SCOTT THOMAS	RPEQ 04618
FOR AND ON BEHALF OF PEAKURBAN PTY LTD			

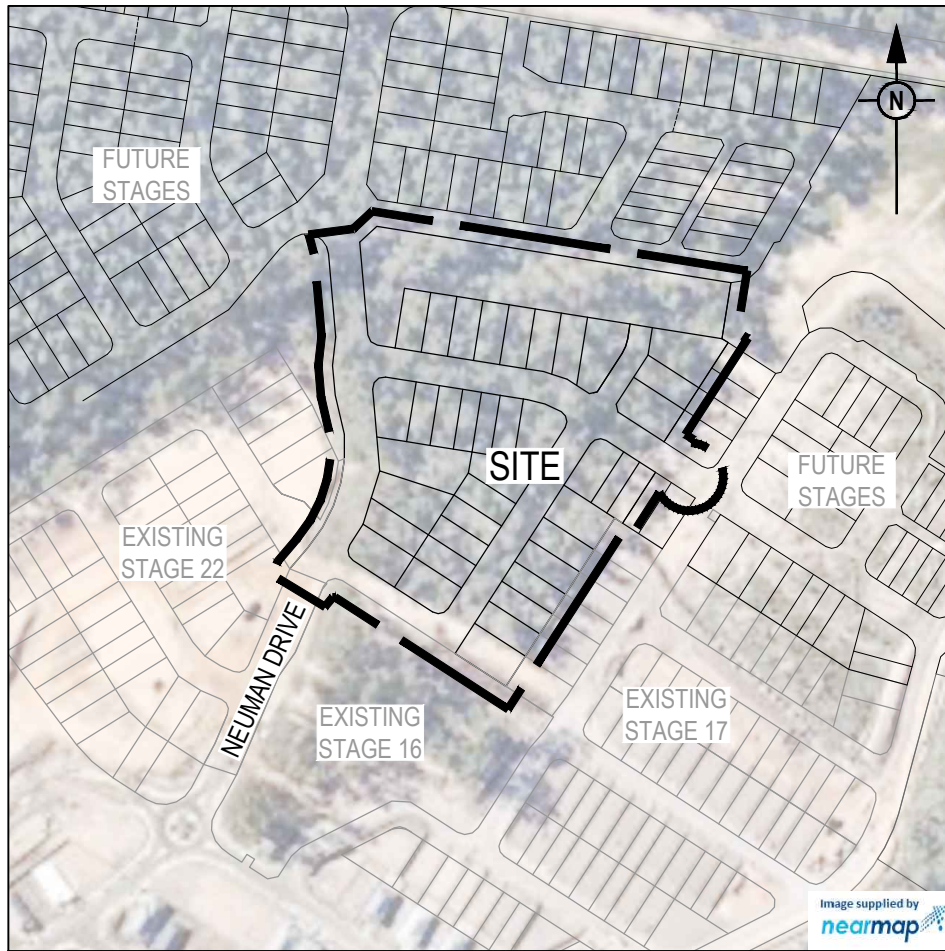
CLIENT	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED
ASSOCIATED CONSULTANT	SAUNDERS HAVILL GROUP PH: 1300 123 744

PROJECT NAME	WOODLINKS VILLAGE - STAGE 19
COLLINGWOOD DRIVE COLLINGWOOD PARK	

DRAWING TITLE	SEWERAGE RETICULATION CROSS SECTIONS
PROJECT No.	21-0132
DRAWING No.	304
REVISION	C



LOCALITY PLAN  
1:2000 (A1)  
1:4000 (A3)

**GENERAL NOTES:**

1. 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. EXISTING SERVICES RELEVANT TO THE PROJECT HAVE BEEN CONSIDERED THROUGHOUT DESIGN AND IS BASED ON SURVEY INFORMATION PROVIDED BY THE SURVEYOR AND/OR THE CONTRACTOR. THE RPEQ WHO CERTIFIED THE DESIGN OR THE PRINCIPAL'S CONSTRUCTION RPEQ HAVE RELIED UPON THIS INFORMATION TO INFORM THE DESIGN. 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.
3. ALL DESIGN AND CONSTRUCTION ACTIVITIES UNDERTAKEN SHALL COMPLY WITH CURRENT WORKPLACE HEALTH AND SAFETY REQUIREMENTS AND LEGISLATION.
4. 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 THE RPEQ WHO CERTIFIED THE DESIGN OR THE PRINCIPAL'S CONSTRUCTION RPEQ OF ANY DISCREPANCIES BETWEEN ACTUAL AND PROPOSED DESIGN LEVELS. THE CERTIFICATION OF THIS DESIGN IS BASED ON SURVEY AND POTHOLE INFORMATION PROVIDED BY THE SURVEYOR AND CONTRACTOR AT THE TIME OF DESIGN.
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. 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 DURING THE PRE-START, 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.

ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK COMMENCING, INCLUDING CLEARING

ALL WATER AND SEWERAGE CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION. PHONE 1300 362 128

ALL LIVE WORK SHALL BE UNTAKEN BY THE CONTRACTOR IN ACCORDANCE WITH A VALID NETWORK ACCESS PERMIT, UNDER THE SUPERVISION OF URBAN UTILITIES, AT THE DEVELOPER'S EXPENSE.

**WATER RETICULATION NOTES**

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT WSAA WATER SUPPLY CODE OF AUSTRALIA SPECIFICATIONS AND STANDARD - SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. THE DESIGN HAS BEEN UNDERTAKEN TO COMPLY WITH CURRENT SOUTH EAST QUEENSLAND WATER CODE AND URBAN UTILITIES STANDARDS.
4. THE CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.
5. ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH URBAN UTILITIES ACCEPTED PRODUCTS AND MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY URBAN UTILITIES.
6. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
7. COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
8. CONSTRUCT EMBEDMENT AND TRENCH FILL TO SEQ-WAT-1200-2, 1201-1 TO SEQ-WAT-1204-1 AND COUNCIL STANDARDS FOR ROADWAY CROSSINGS, WHICHEVER IS MORE ONEROUS.
9. PROVIDE BULKHEADS / TRENCH STOPS IN ACCORDANCE WITH SEQ WATER SUPPLY CODE TABLE 7.5 AND SEQ-WAT-1209-1 AND 1210-1.
10. CONSTRUCT THRUST BLOCKS ON ALL VALVES, BENDS, TEES, TAPERS, DEAD ENDS AS REQUIRED BY PIPE MATERIAL AS WELL AS TRANSITIONS TO UNRESTRAINED PIPEWORK TO SEQ-WAT-1205-1 AND 1206-1.
11. INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES.
12. CONSTRUCT FIRE HYDRANTS AND STOP VALVES TO SEQ-WAT-1301-1, 1302-1, 1303-2, 1305-1, 1306-1 AND 1409-1.
13. CONSTRUCT SCOURS TO SEQ-WAT-1307-2 (ONLY MAINS DN315 AND LARGER). SCOURS MUST DISCHARGE INTO AN OPEN STORMWATER GULLY PIT. DISCHARGE TO THE FACE OF KERB AND CHANNEL IS NOT ACCEPTABLE TO URBAN UTILITIES.
14. INSTALL PAVEMENT MARKERS TO SEQ-WAT-1300-1 AND 1300-2.
15. CONSTRUCT HYDRANTS AT THE ENDS OF ALL NEW MAINS BEFORE THE SCOUR AND WHERE REQUIRED FOR COMMISSIONING PURPOSES. URBAN UTILITIES PREFERENCE IS TO AVOID TAPPING BANDS FOR TEST POINTS AND PROVIDE EITHER A TEMPORARY DUCKFOOT HYDRANT OR FLANGED SHORT PIPE WITH A TEMPORARY TAPPED BLANK FLANGE. TESTING AGAINST LIVE MAINS AND VALVES IS NOT PERMITTED.
16. TESTING LOCATIONS AND TEMPORARY FITTINGS ARE REQUIRED ON SERVICES OVER 10m LONG UNLESS APPROVED IN WRITING FOR WORKS TO BE UNDERTAKEN AS LIVE WORKS. TESTING AND AS -CONSTRUCTED REQUIREMENTS TO BE DOCUMENTED ON DRAWINGS.
17. 316SS BACKING RINGS SHALL BE USED WITH FULL-FACE PE FLANGES. PE STUB-FLANGES ARE NOT ACCEPTED. WHEN JOINING TO EXISTING UNRESTRAINED PIPELINES, PROVIDE A DICL SHORT PIPE WITH THRUST FLANGE AND THRUST BLOCK. BOLT ON UNI FLANGES SHALL NOT BE USED AS THRUST FLANGES. THRUST (PUDDLE) FLANGES SHALL BE AN APPROVED PREFABRICATED DICL/MSCL SHORT PIPE WITH PREFABRICATED THRUST FLANGE.
18. ALL DISUSED SERVICES SHALL BE PLUGGED AT THE MAIN AND FERRULE CLOSED OR TAPPING BAND REMOVED AND SECTION OF MAIN SUBSTITUTED AS LIVE WORKS. LARGE DIAMETER SERVICES SHALL BE DISUSED BY REMOVING ANY PROPERTY SERVICE PIPEWORK AT THE POINT OF CONNECTION TO THE MAIN, AND INSTALLING A BLANK FLANGE DIRECTLY ON THE TEE.
19. AC MAINS SHALL BE REPLACED COLLAR-COLLAR.
20. PROVIDE DN40 PE WATER SERVICES FOR ROAD CROSSINGS SERVICING TWO DWELLINGS. PROVIDE DN32 PE WATER SERVICES FOR ROAD CROSSINGS SERVICING A SINGLE DWELLING. IF THE LONG TERM STATIC HEAD OF THE PROPERTY SERVICE IS LESS THAN 350 kPa (35m) OR IF PRIVATE BOOSTER IS REQUIRED, THE MINIMUM SIZE OF PROPERTY SERVICE SHALL BE DN40 PE.
21. CONSTRUCT SMALL DIAMETER PROPERTY SERVICES TO SEQ-WAT-1107-1 AND 1107-3.
22. CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
23. A WATER METER SUPPLIED AT THE DEVELOPER'S COST, IS TO BE INSTALLED AT THE SERVICE POINT OF EACH LOT IN ACCORDANCE WITH THE URBAN UTILITIES STANDARD DRAWING.
24. CONSTRUCT TEST POINTS TO SEQ-WAT-1410-1 AT THE ENDS OF ALL NEW MAINS AND WHERE REQUIRED FOR COMMISSIONING PURPOSES.
25. WATER MAINS SHALL SHALL CROSS OVER OTHER SERVICES. IF NOT PRACTICABLE THEN AMEND DESIGN TO USE FULLY WELDED MSCL AND CONCRETE ENCASEMENT. 1305-1, 1306-1 AND 1409-1.
26. URBAN UTILITIES WATER METERS AND FIRE HYDRANTS MUST BE LOCATED 1.100m CLEAR OF ENERGEX PILLARS.

ASSET REGISTER - WATER RETICULATION					
ESTATE/STAGE	WOODLINKS STAGE 19				
SITE ADDRESS	COLLINGWOOD DRIVE, COLLINGWOOD PARK				
URBAN UTILITIES REFERENCE No.	21-PNT-53050				
URBAN UTILITIES APPROVAL DATE	-				
CLIENT	CANNBERRA ESTATES CONSORTIUM NO. 36 PTY LTD				
DRAWING/PLAN No.	21-0132-304-306				
MAINS	DIAMETER	MATERIAL		LENGTH	
		DESIGN	CONST	DESIGN	CONST
	DN125	PE100 PN16		212	
	DN180	PE100 PN16		490	
DN250	PE100 PN16		-		
SERVICES	DIAMETER	MATERIAL		LENGTH	
		DESIGN	CONST	DESIGN	CONST
	DN25	PE100 PN16		56	
	DN32	PE100 PN16		54	
DN40	PE100 PN16		105		
METERS	DIAMETER	NUMBER			
		DESIGN	CONST		
	200	-	44		
	250	-			
320	-				

**WATER RETICULATION DRAWING INDEX**

21-0132-305	WATER RETICULATION COVER PLAN
21-0132-306	WATER RETICULATION LAYOUT PLAN
21-0132-307	FIRE HYDRANT REACH LAYOUT PLAN

**SERVICE DETAILS**

NO	SIZE	LOT NUMBERS
20	DN25PE	550-552, 565-571, 578-587
18	DN32PE	553-560, 561-564, 572-577

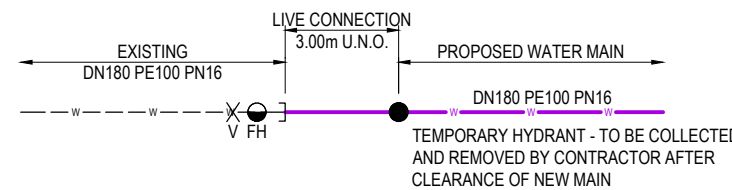
**LIVE CONNECTIONS**

CONNECTION 1	
STREET	NEUMAN DRIVE
LOCATION	NORTH EAST CORNER OF EXISTING LOT 415
LENGTH	3.00m
TYPE OF MAIN	DN180 PE100
DATE COMMENCED	DATE COMPLETED
SIGNATURE	

**ENGINEER'S CERTIFICATION**

- I, Scott Thomas, hereby certify that:
1. The information contained in this drawing / document is in compliance with approved drawings and design.
  2. The new water and sewerage works defined by this drawing have been designed and constructed in accordance with the SEQ code.
  3. This generally represents an accurate record of as-constructed works
  4. I accept responsibility for the information contained in this drawing / document.

*S. Thomas* 17/08/22  
RPEQ (signature) RPEQ No. 04618 Date:



LIVE CONNECTION 1 DETAIL  
NOT TO SCALE

**DETAILS OF PROPOSED WATER SEQ CODE VARIATIONS**

No.	SEQ CODE CLAUSE	DETAILS FOR PROPOSED VARIATION	REASONS OF PROPOSED VARIATION
1	5.4.2.1 & 5.4.2.2	DRIVEWAY 01 - WATER MAIN PROPOSED ON SAME SIDE OF DRIVEWAY AS SEWER AND ELECTRICAL	AS PER CLAUSE 5.4.2.1 (a) THE WATER MAIN HAS BEEN DESIGNED IN THE LEAST COSTLY LOCATION, ON THE SIDE OF THE ROAD WHICH HAS SERVES THE MOST PROPERTIES AND MINIMISES THE LENGTH OF PROPERTY CONNECTIONS. NOTE 1 - COUNCIL'S STANDARD SERVICE CORRIDORS ALLOW FOR EACH SERVICE WITHIN THE SAME VERGE, SO NO IMPACT TO OTHER SERVICE CORRIDORS IS PROPOSED. NOTE 2 - WHERE WATER MAIN IS PARALLEL TO THE SEWER, THE MINIMUM VERTICAL CLEARANCE HAS BEEN OBTAINED IN ACCORDANCE WITH CL. 5.12.5.2. TABLE 5.5, NOTES 1 & 5.

**ENVIRONMENTAL CONDITIONS**

**VEGETATION PROTECTION**

- A. TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- B. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- C. TREE ROOTS SHALL BE TUNNELED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- D. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

**SOIL**

- A. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- B. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

**CREEK CROSSINGS**

- A. SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
- B. APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
- C. NO SOIL SHALL BE STOCKPILED WITHIN 5m OF THE CREEK.

**REHABILITATION**

- A. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- B. PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	21.02.22	CL	MPG	ISSUED FOR CONSTRUCTION			1:2000	CANNBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 19	WATER RETICULATION COVER PLAN
B	16.08.22	NS	NS	AS CONSTRUCTED			1:4000	SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. 21-0132 DRAWING No. 305 REVISION B

**AS CONSTRUCTED  
"FOR BUILDER PURPOSES"**

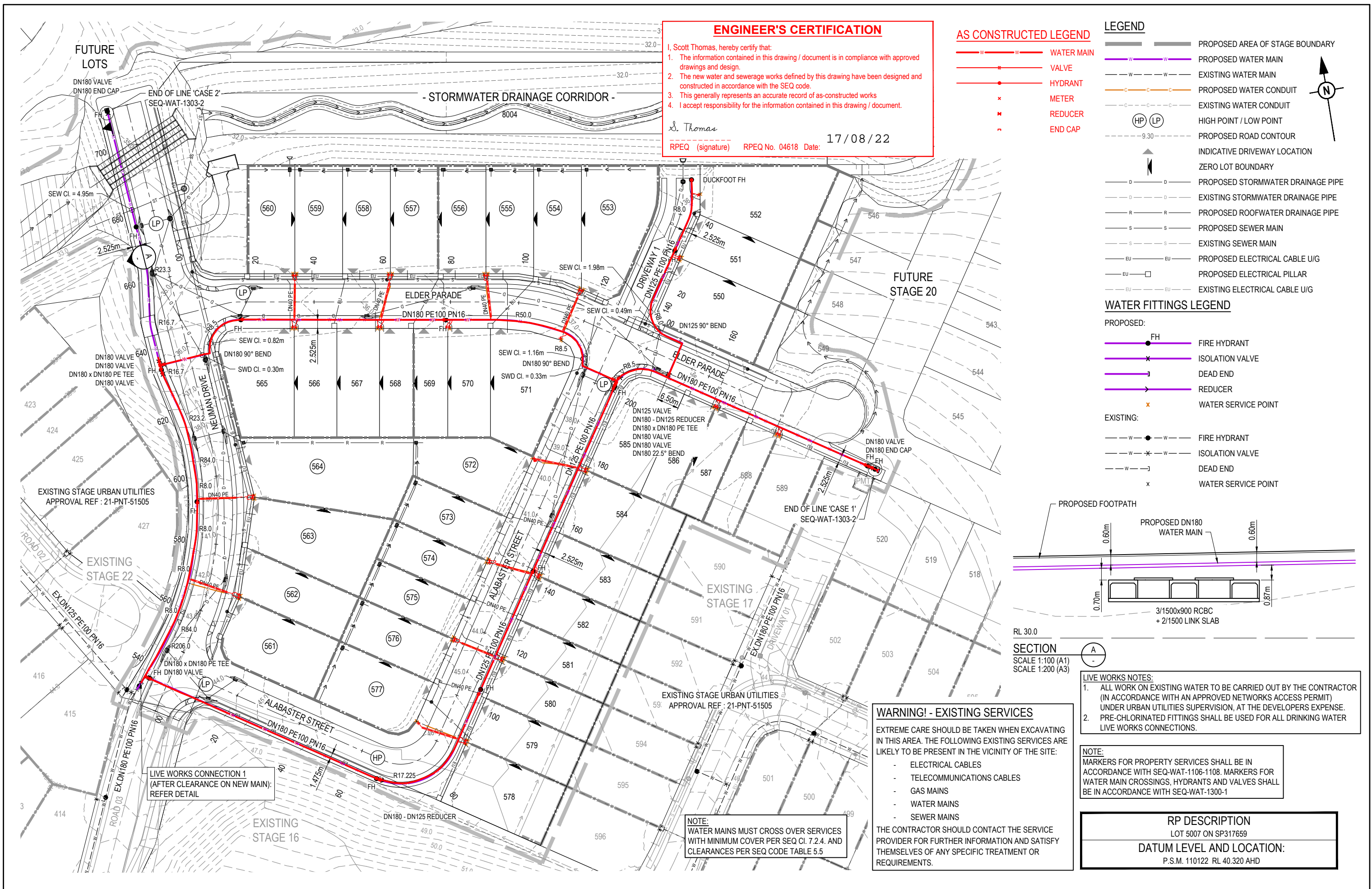


SCALE
1:2000 20 0 20 40 60 80 100 A1
1:4000

CANNBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED
SAUNDERS HAVILL GROUP PH: 1300 123 744

WOODLINKS VILLAGE - STAGE 19
COLLINGWOOD DRIVE COLLINGWOOD PARK

PROJECT No. 21-0132	DRAWING No. 305	REVISION B
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**ENGINEER'S CERTIFICATION**

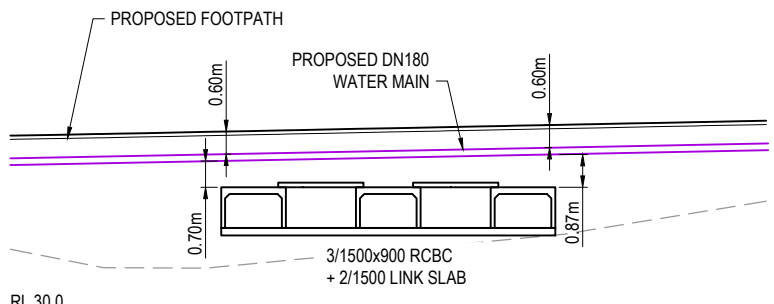
I, Scott Thomas, hereby certify that:

- The information contained in this drawing / document is in compliance with approved drawings and design.
- The new water and sewerage works defined by this drawing have been designed and constructed in accordance with the SEQ code.
- This generally represents an accurate record of as-constructed works
- I accept responsibility for the information contained in this drawing / document.

S. Thomas  
 RPEQ (signature) RPEQ No. 04618 Date: 17/08/22

- AS CONSTRUCTED LEGEND**
- WATER MAIN
  - VALVE
  - HYDRANT
  - METER
  - REDUCER
  - END CAP
- LEGEND**
- PROPOSED AREA OF STAGE BOUNDARY
  - PROPOSED WATER MAIN
  - EXISTING WATER MAIN
  - PROPOSED WATER CONDUIT
  - EXISTING WATER CONDUIT
  - HIGH POINT / LOW POINT
  - PROPOSED ROAD CONTOUR
  - INDICATIVE DRIVEWAY LOCATION
  - ZERO LOT BOUNDARY
  - PROPOSED STORMWATER DRAINAGE PIPE
  - EXISTING STORMWATER DRAINAGE PIPE
  - PROPOSED ROOFWATER DRAINAGE PIPE
  - PROPOSED SEWER MAIN
  - EXISTING SEWER MAIN
  - PROPOSED ELECTRICAL CABLE U/G
  - PROPOSED ELECTRICAL PILLAR
  - EXISTING ELECTRICAL CABLE U/G

- WATER FITTINGS LEGEND**
- PROPOSED:
- FH FIRE HYDRANT
  - ISOLATION VALVE
  - DEAD END
  - REDUCER
  - WATER SERVICE POINT
- EXISTING:
- FIRE HYDRANT
  - ISOLATION VALVE
  - DEAD END
  - WATER SERVICE POINT



RL 30.0  
**SECTION A-A**  
 SCALE 1:100 (A1)  
 SCALE 1:200 (A3)

**LIVE WORKS NOTES:**

- ALL WORK ON EXISTING WATER TO BE CARRIED OUT BY THE CONTRACTOR (IN ACCORDANCE WITH AN APPROVED NETWORKS ACCESS PERMIT) UNDER URBAN UTILITIES SUPERVISION, AT THE DEVELOPERS EXPENSE.
- PRE-CHLORINATED FITTINGS SHALL BE USED FOR ALL DRINKING WATER LIVE WORKS CONNECTIONS.

**NOTE:**  
 MARKERS FOR PROPERTY SERVICES SHALL BE IN ACCORDANCE WITH SEQ-WAT-1106-1108. MARKERS FOR WATER MAIN CROSSINGS, HYDRANTS AND VALVES SHALL BE IN ACCORDANCE WITH SEQ-WAT-1300-1

**WARNING! - EXISTING SERVICES**

EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

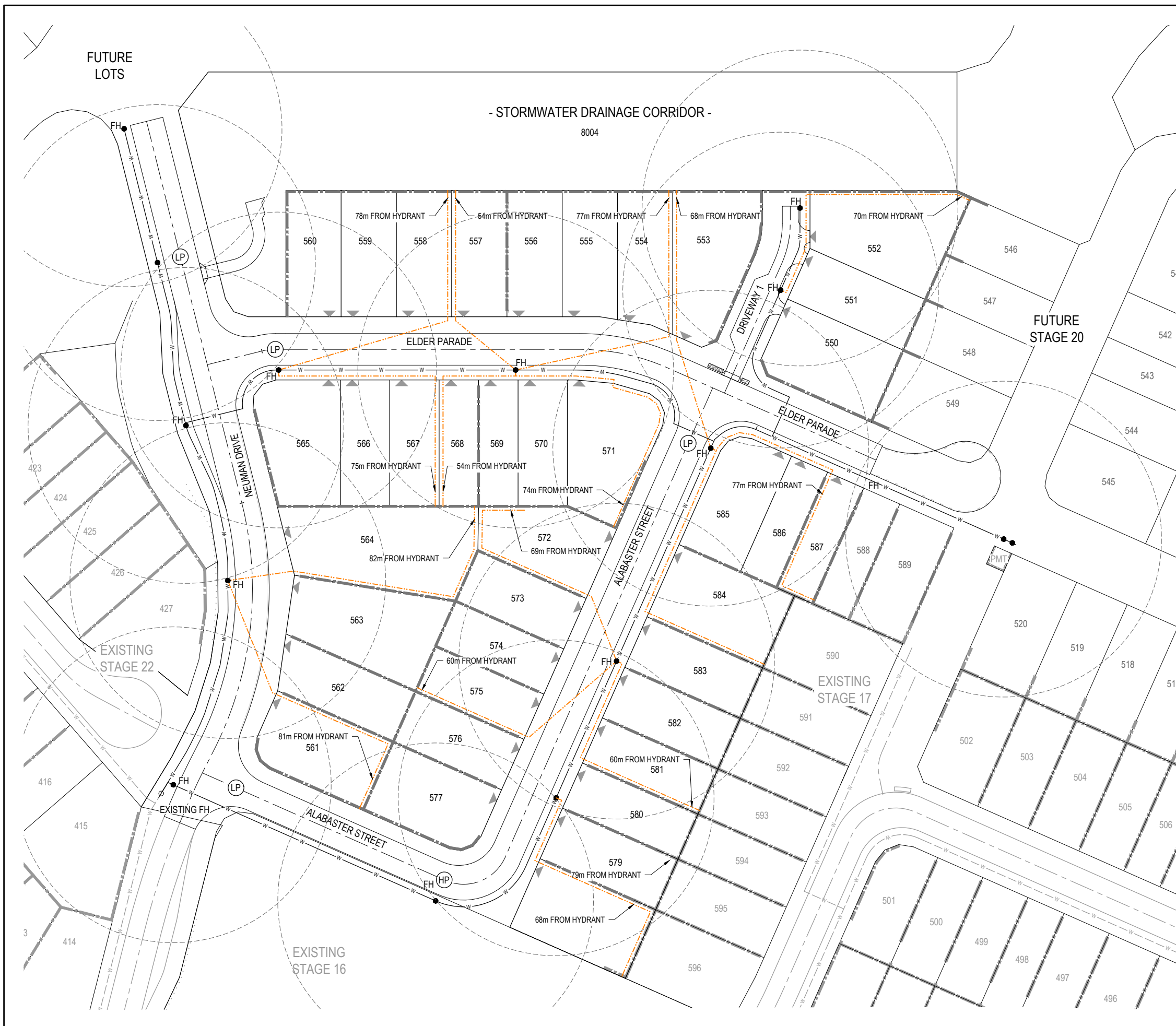
- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

**NOTE:**  
 WATER MAINS MUST CROSS OVER SERVICES WITH MINIMUM COVER PER SEQ CI. 7.2.4. AND CLEARANCES PER SEQ CODE TABLE 5.5

**RP DESCRIPTION**  
 LOT 5007 ON SP317659  
**DATUM LEVEL AND LOCATION:**  
 P.S.M. 110122 RL 40.320 AHD

REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	21.02.22	CL	MPG	AS CONSTRUCTED				1:500 1:1000	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 19	WATER RETICULATION LAYOUT PLAN
B	16.08.22	NS	NS	AS CONSTRUCTED					ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. 21-0132
							DESIGN APPROVED SCOTT THOMAS				DRAWING No. 306
							FOR AND ON BEHALF OF PEAKURBAN PTY LTD				REVISION B



**LEGEND**

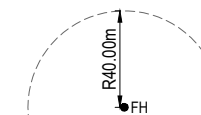
- PROPOSED AREA OF WORKS
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED HYDRANT REACH (WORST CASE ALLOTMENT)
- INDICATIVE DRIVEWAY LOCATION
- EASEMENT

**WATER FITTINGS LEGEND**

- PROPOSED:
- FIRE HYDRANT
- EXISTING:
- FIRE HYDRANT

**NOTE:**

ALL FIRE HYDRANT LOCATIONS SHALL MEET CLASS 1 BUILDING COVERAGE REQUIREMENTS OF THE SEQ CODE. FIRE HYDRANT COVERAGE IS AS SHOWN AND DEMONSTRATES THE WORST POSSIBLE LOCATION OF ANY PROPOSED CLASS 1 BUILDING WITHIN 90m OF HYDRANT REACH.



**FIRE HYDRANT COVERAGE**  
NOT TO SCALE

**ENGINEER'S CERTIFICATION**

- I, Scott Thomas, hereby certify that:
- The information contained in this drawing / document is in compliance with approved drawings and design.
  - The new water and sewerage works defined by this drawing have been designed and constructed in accordance with the SEQ code.
  - This generally represents an accurate record of as-constructed works
  - I accept responsibility for the information contained in this drawing / document.

*S. Thomas*

RPEQ (signature) RPEQ No. 04618 Date: 17/08/22

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	21.02.22	CL	MPG	ISSUED FOR CONSTRUCTION
B	16.08.22	NS	NS	AS CONSTRUCTED

DRAWN	STATUS
AS CONSTRUCTED	"FOR BUILDER PURPOSES"
DESIGN APPROVED	SCOTT THOMAS RPEQ 04618
FOR AND ON BEHALF OF PEAKURBAN PTY LTD	

**PEAKURBAN**  
Achieve more.  
ENQUIRIES@PEAKURBAN.COM.AU

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

CLIENT  
**CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED**  
ASSOCIATED CONSULTANT  
SAUNDERS HAVILL GROUP  
PH: 1300 123 744

PROJECT NAME  
**WOODLINKS VILLAGE - STAGE 19**  
COLLINGWOOD DRIVE  
COLLINGWOOD PARK

DRAWING TITLE		
<b>FIRE HYDRANT REACH LAYOUT PLAN</b>		
PROJECT No.	DRAWING No.	REVISION
<b>21-0132</b>	<b>307</b>	<b>B</b>

**SDU Development Information**

Development Name:  
WOODLINKS STAGE 19  
Developer Company:  
CEC No 36 Pty Ltd  
Development Address:  
7001 Collingwood Dr COLLINGWOOD PARK QLD 4301  
Authorised Rep:  
Ampflo Pty Ltd  
Phone: 07 3372 9280  
E-Mail: comms@ampflo.com.au  
nbn Reference Number: STG-M000079923  
Stage Number: 19  
Design Revision: B

**AS CON**  
26 Jul 2022  
**R Morgan**  
**Sullivan Underground Services**

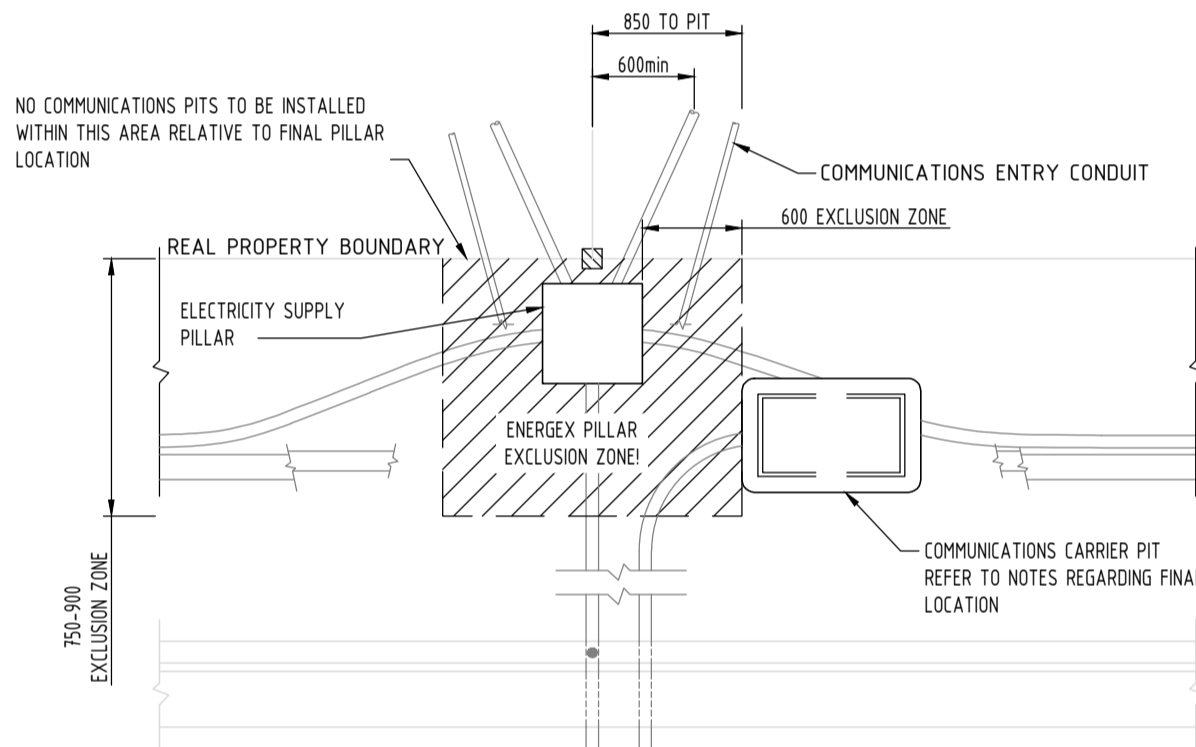
**BILL OF MATERIAL**  
NO OF LOTS: 38

PITS		DUCTS	
SIZE	QTY	SIZE	QTY
P100	20	P50	7
P50	14	P20	38
P20	2		
P10	1		
P5	0		

MTRS  
630.7  
179.5  
124

TOTAL NUMBER OF PITS: 24  
TOTAL NUMBER OF MANHOLES: 0  
TOTAL NUMBER OF CONDUITS: 65  
TOTAL LENGTH OF CONDUITS: 934.2

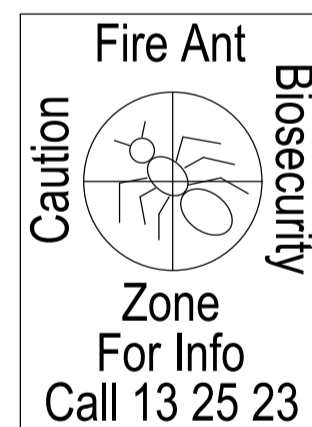
Total rod rope = 714.6m



COMMS PIT LOCATION DETAIL

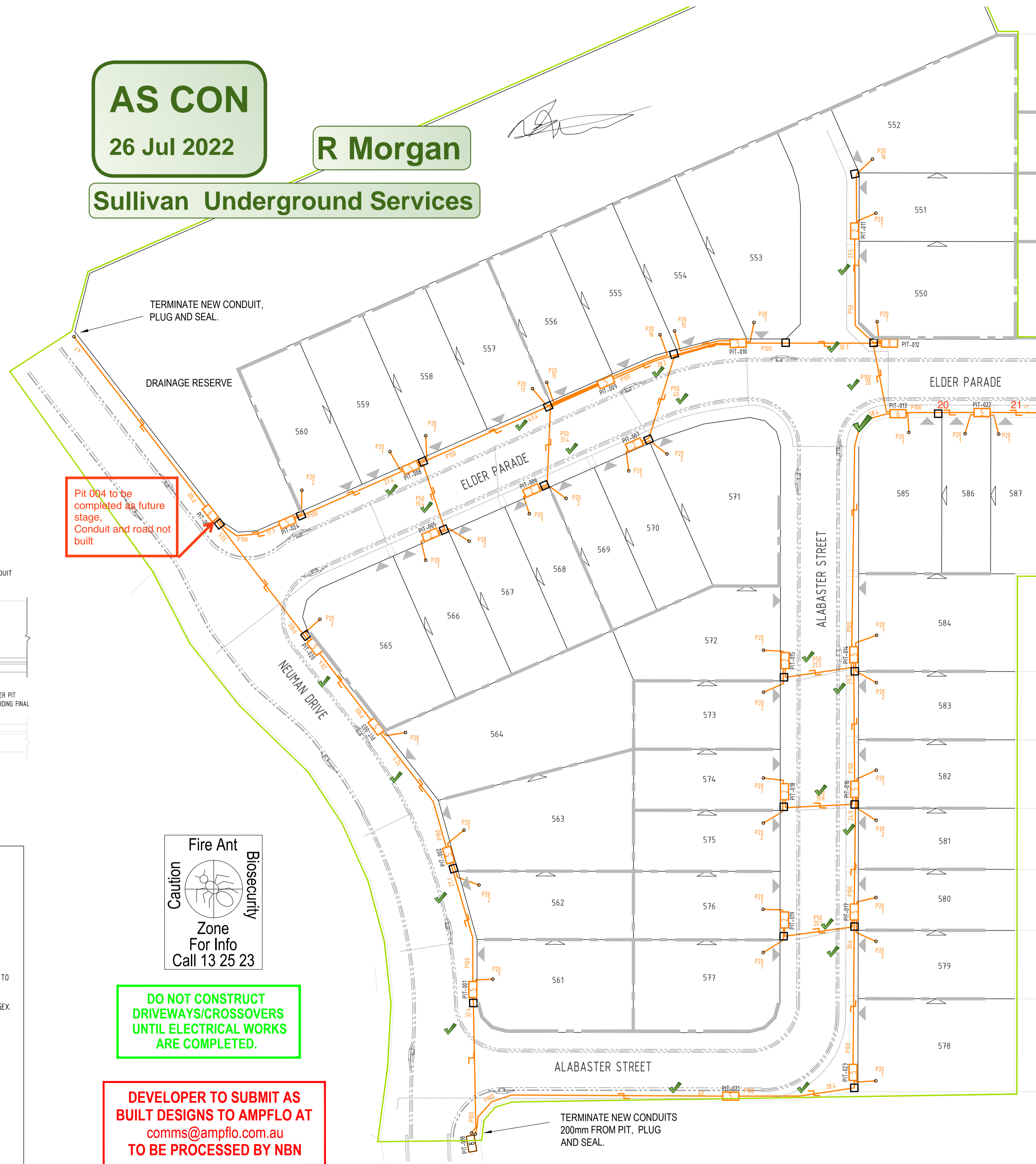
**NOTES**

- INSTALL PIT AND PIPE INFRASTRUCTURE TO NBN Co SPECIFICATION AND STANDARDS. NBN Co PIT AND CONDUIT INFRASTRUCTURE GUIDE LINES FOR DEVELOPERS CAN BE FOUND ONLINE AT <http://www.nbnco.com.au/industry/new-developments.html>
- PIT AND PIPE INFRASTRUCTURE TO BE INSPECTED BY NBN Co AFTER INSTALLATION.
- INSTALL P23 LEAD-IN PIPES FROM PIT TO PROPERTY ENTRY POINT AND PLUG.
- ALL CONDUITS TO BE INSTALLED IN JOINT USE TRENCH UNLESS DETAILED OTHERWISE.
- ALL MATERIALS SHALL BE TO NBN Co SPECIFICATION. ALTERNATIVES WILL ONLY BE ACCEPTED IF AGREED TO IN WRITING BY NBN Co.
- THE LOCATION OF PIT AND PIPE INFRASTRUCTURE SHALL ALSO COMPLY WITH THE REQUIREMENTS OF ENERGEX.
- CONSTRUCTOR TO CONFIRM FINAL LOCATION OF PROPOSED DRIVEWAYS AND SERVICES PRIOR TO CONSTRUCTION. NBN Co PITS TO BE INSTALLED CLEAR OF DRIVEWAYS & OTHER SERVICES INCLUDING ALL PROPOSED.
- PATHWAYS TO BE NBN FIBRE READY.
- PITS AND CONDUITS INDICATIVE LOCATIONS.
- CIVIL CONTRACTOR/DEVELOPER TO INSTALL INTERNAL CONDUITS IN PRIVATE PROPERTY.
- CIVIL CONTRACTOR TO INSTALL ALL NEW ROAD CROSSINGS
- ELECTRICAL CONTRACTOR TO INSTALL INTERNAL PITS.
- PITS ARE NOT TO BE INSTALLED IN VEHICULAR DIVEWAYS.



**DO NOT CONSTRUCT DRIVEWAYS/CROSSOVERS UNTIL ELECTRICAL WORKS ARE COMPLETED.**

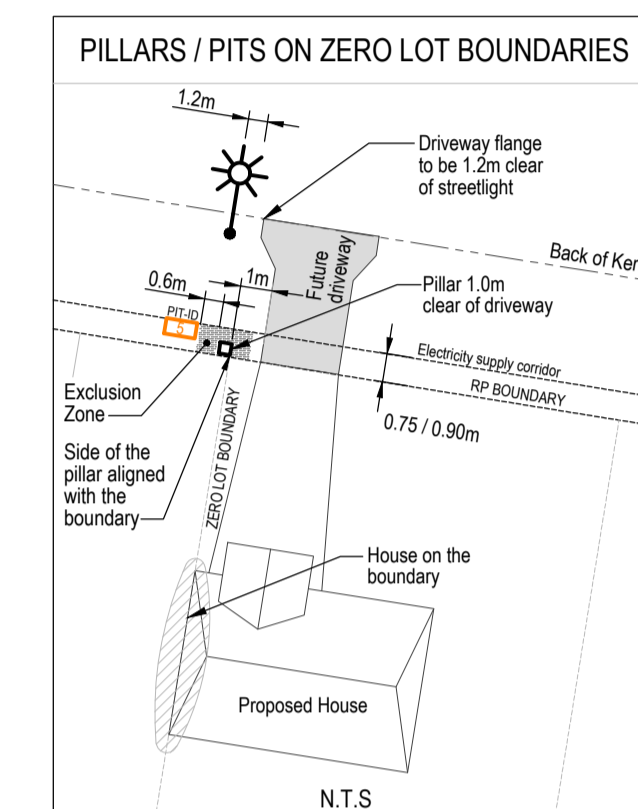
**DEVELOPER TO SUBMIT AS BUILT DESIGNS TO AMPFLO AT [comms@ampflo.com.au](mailto:comms@ampflo.com.au) TO BE PROCESSED BY NBN**



TERMINATE NEW CONDUIT, PLUG AND SEAL.

**LEGEND**

- EXISTING TELSTRA UG CABLE
- EXISTING AERIAL CABLE
- TELSTRA PLANT IN SHARED UTILITY TRENCH
- PROPOSED NBN UNDERGROUND CONDUIT IN SHARED UTILITY TRENCH
- PIT\_ID 7 Service Drop Access Pit (850mmx280mmx565mm)
- PIT\_ID 5 Network Boundary/Local Network Pit (Single Lid) (700mmx450mmx850mm)
- PIT\_ID 8 Distribution/Local Network Connection Pit (1360mmx555mmx860mm)
- PIT\_ID 9 Fibre Distribution Hub (FDH) Pit (2000mmx555mmx900mm)
- Existing Telstra manhole
- Existing Telstra Pit (2,3,4,5,6,7,8,9)
- Telstra exchange
- Example of Telstra Major Conduit Layout with Proposed duct marked to be used by NBN
- Premise Connection Device (PCD)
- Fan Access Node site (FAN)
- nbn Cable Transition Location
- nbn Network Termination Device
- Energex Pillar



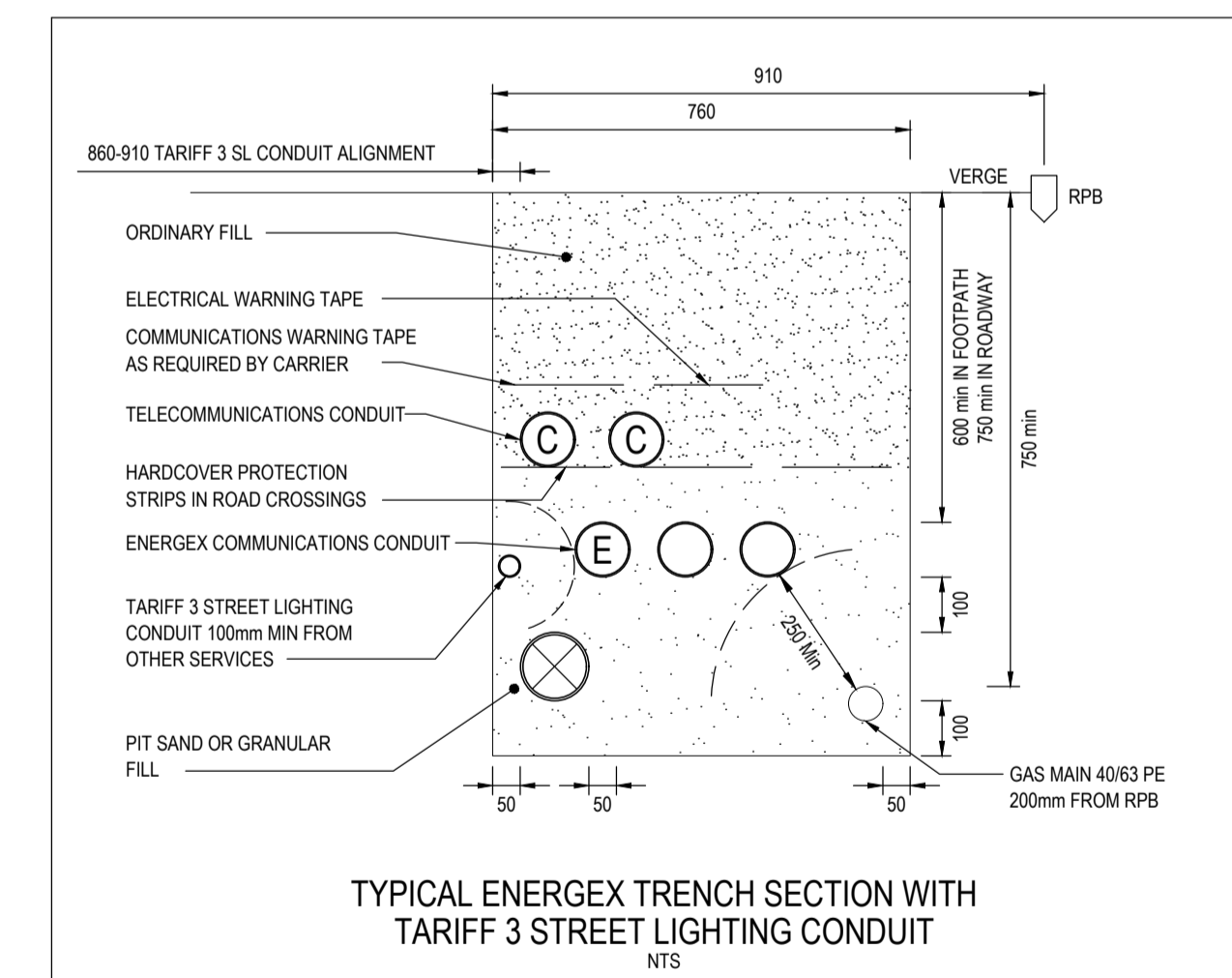
**REQUIREMENTS FOR ELECTRICAL, GAS & COMMUNICATIONS**

The proposed pillar shall be offset at the zero lot boundary with the side of the pillar being aligned with the lot boundary in order to provide a 1.0m minimum clearance from the future driveway.

A proposed streetlight shall be offset 1.2m from the flange of the future driveway.

COMMUNICATIONS PITS are to remain outside 600mm pillar exclusion zone where a pillar is offset to align on one side with the boundary peg

GAS SERVICE TEE-OFFS are to remain outside 600mm pillar exclusion zone where a pillar is offset to align on one side with the boundary peg



**(NOT FOR CONSTRUCTION)**  
18.12.2021

**TO BE BUILT IN CONJUNCTION WITH ELECTRICAL RETICULATION A211677**



REV	DATE	DRAFTER	DESCRIPTION	APPROVED
B	18.12.21	JB	Revised design due to change in zero lot boundaries and driveways	BK
A	06.07.21	H.GORGON	Initial Design	B.HEMPHILL

**STRICTLY CONFIDENTIAL**

NBNCO APPROVAL RECORD:

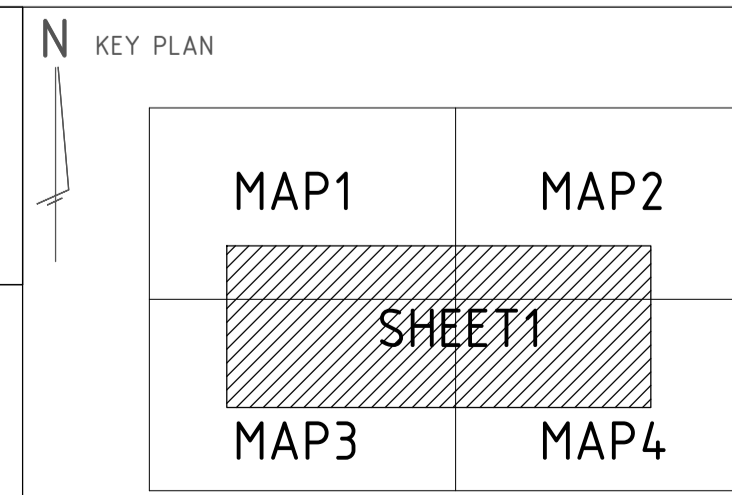
SIGNATURE	DATE
<input type="checkbox"/> DD	
<input type="checkbox"/> WD	
<input type="checkbox"/> AB	

QUALITY RECORD :

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**nbn** Australia's broadband network

**ampflo**  
ABN 28 111 423 842  
Electrical and Telecommunications Consultants  
07 3372 9280 - [projects@ampflo.com.au](mailto:projects@ampflo.com.au)  
[ampflo.com.au](http://ampflo.com.au)



DRAWING TITLE:  
NATIONAL BROADBAND NETWORK  
7001 Collingwood Dr COLLINGWOOD PARK QLD 4301  
Woodlinks - Stage 19

ENABLE#: 280530

STATE: REGION:

PROJECT No: 211677

CADREF No: T211677

SCALE 1:500 SHEET No. 1 OF 1 REV. B