

# WOODLINKS VILLAGE STAGE 10

## COLLINGWOOD DRIVE, COLLINGWOOD PARK

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

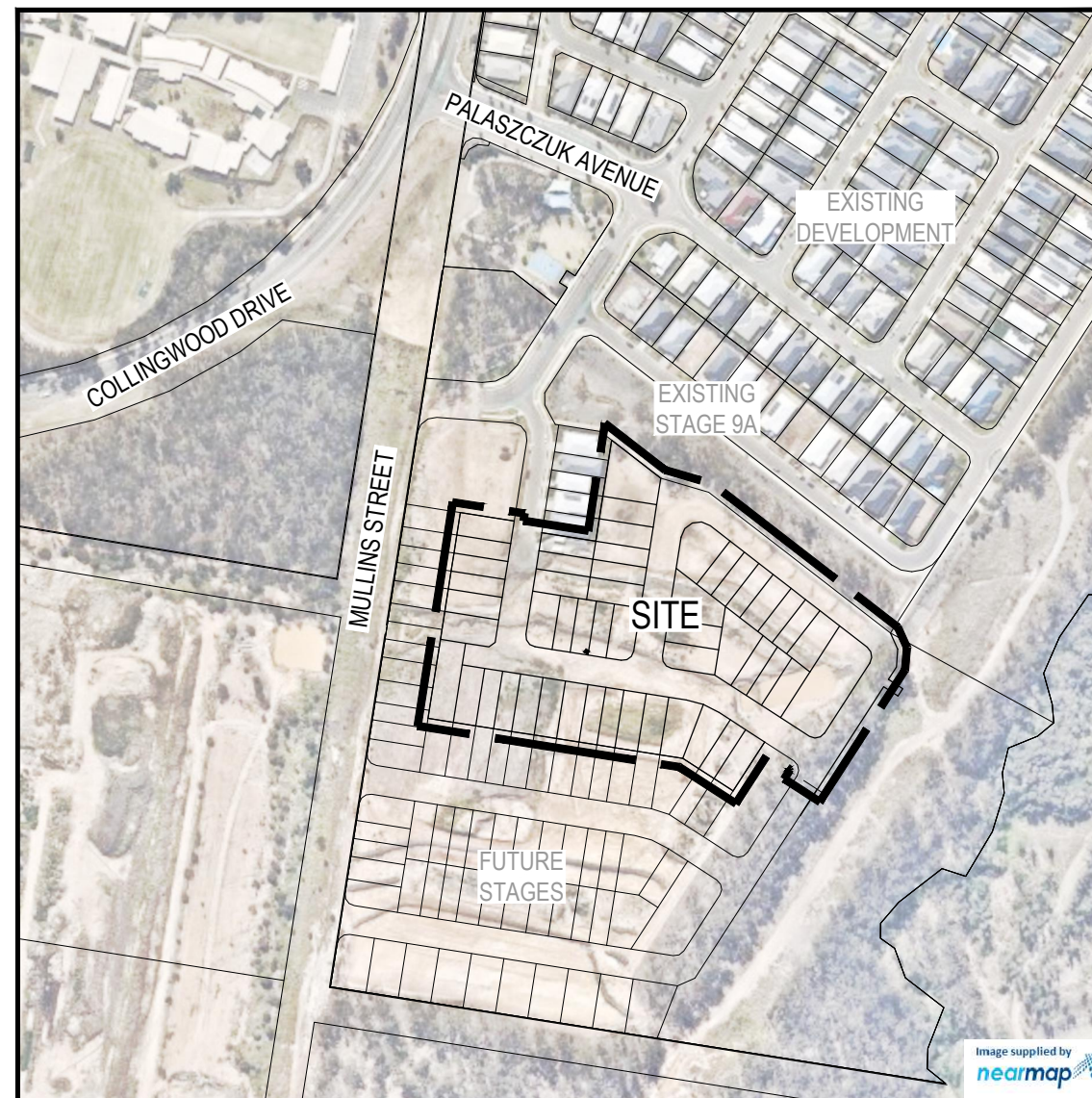
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LOCALITY PLAN  
SCALE 1:2000 (A1)  
SCALE 1:4000 (A3)

PROJECT INFORMATION SUMMARY:
No. OF LOTS = 51
AREA OF SITE = 2.96 ha
RP DESCRIPTION LOT 1 ON SP 266990
DATUM LEVEL AND LOCATION P.M. 110122 RL 40.320 AHD
LOCAL AUTHORITY: IPSWICH CITY COUNCIL
COUNCIL REFERENCE NUMBER: 2558/2014/MAMC

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

**AS-CONSTRUCTED CERTIFICATION**  
Signature:  Date: 24/03/23  
DANIEL COLLINS RPEQ No. 18631  
For and on behalf of Colliers International engineering & design pty ltd

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	17.06.22	CL	AK	ISSUED FOR CONSTRUCTION		<b>AS CONSTRUCTED</b>	1:2000 20 0 20 40 60 80 100 A1 1:4000	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 10	COVER PLAN
B	24.03.23	CL	AK	AS CONSTRUCTED						
DESIGN APPROVED DANIEL COLLINS RPEQ 18631							ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744		COOLINGWOOD DRIVE, COLLINGWOOD PARK	
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD									PROJECT No. 18-0176 DRAWING No. 100 REVISION B	

**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. RETAINING WALL SUBSOIL DRAIN CONNECTION INTO KERB SUBSOIL DRAIN IS NOT ACCEPTABLE TO COUNCIL.
9. THE CONTRACTOR SHALL ENSURE THAT ALL RETAINING WALL SUBSOIL DRAINS ARE NOT CONNECTED TO KERB SUBSOIL DRAINS. 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 1500 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:  Date: 24/03/23 ...  
 DANIEL COLLINS RPEQ No. 18631  
 For and on behalf of Colliers International engineering & design pty ltd

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
A	17.06.22	CL	AK	ISSUED FOR CONSTRUCTION		<b>AS CONSTRUCTED</b>		<b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b>	<b>WOODLINKS VILLAGE - STAGE 10</b>	<b>GENERAL NOTES</b>		
B	24.03.23	CL	AK	AS CONSTRUCTED								
					DESIGN	APPROVED DANIEL COLLINS RPEQ 18631		ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COOLINGWOOD DRIVE, COOLINGWOOD PARK	PROJECT No. <b>18-0176</b>	DRAWING No. <b>101</b>	REVISION <b>B</b>
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD												

**EARTHWORKS NOTE:**

- IT IS ASSUMED THAT STAGE 10 WILL INTERFACE WITH THE BULK EARTHWORKS SURFACE INCLUDED IN THE STAGE 9 OPERATIONAL WORKS PACKAGE U.N.O.
- REFER 18-0176-400 SERIES FOR OVERALL EARTHWORKS AND FURTHER DETAILS OF EARTHWORKS INTERFACING WITH FUTURE STAGES

BATTER 1:6 OR STEEPER ARE TO BE VEGETATED AND CERTIFIED AS STABLE BY AN EXPERIENCED AND SUITABLY QUALIFIED RPEQ ENGINEER.

THE CONTRACTOR MUST SUBMIT TO THE SUPERINTENDANT A COPY OF ALL RELEVANT BUILDING APPROVALS AND ASSOCIATED DESIGN AND CONSTRUCTION FOR ALL EARTH RETAINING STRUCTURES THAT ARE NOT APPROVED BY THIS DEVELOPMENT PERMIT AND ARE CONSIDERED BUILDING WORKS IN ACCORDANCE WITH BUILDING ACT 1975.

RETAINING WALLS DO NOT FORM PART OF THIS APPROVAL.

BULK EARTHWORKS MUST REMAIN WITHIN SITE BOUNDARY

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

EXISTING SLEEPER RETAINING WALL, CONSTRUCTED AS PART OF STAGE 9 WORKS

EXISTING STAGE 9

PROPOSED EARTHWORKS TO TIE NEATLY INTO EXISTING VERGE LEVELS BUILT AS PART OF STAGE 9A WORKS

RETAINING WALL TO EXTEND OUT 2 PANELS

FUTURE STAGE 9B

STAGE 12

TEMPORARY CUT-OFF DRAIN 150mm DEEP, 1 IN 4 SIDES. TO REDIRECT FUTURE LOT RUNOFF DOWNSTREAM.

STAGE 11

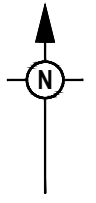
**NOTE:**  
REFER TO 18-0176-400 FOR BORROW PLAN

**LEGEND**

- PROPOSED AREA OF WORKS
- - - 24.0 - - - PROPOSED SURFACE CONTOUR
- - - 24.0 - - - EXISTING SURFACE CONTOUR
- - - - - PROPOSED EARTHWORKS PAD SETBACK LINE
- PROPOSED SLEEPER RETAINING WALL
- EXISTING SLEEPER RETAINING WALL
- FUTURE SLEEPER RETAINING WALL
- 24.60 PROPOSED PAD LEVEL (PL) (INCLUDES TOPSOIL PLACEMENT)
- 24.60 EXISTING SURFACE LEVEL (ESL)
- 24.60 FUTURE SURFACE LEVEL
- PROPOSED AREA OF CUT
- PROPOSED AREA OF FILL
- ▲ INDICATIVE DRIVEWAY LOCATIONS
- ZERO LOT BOUNDARY
- EXISTING STORMWATER DRAINAGE PIPE
- EXISTING ROOFWATER DRAINAGE PIPE
- EXISTING SEWERAGE MAIN
- EXISTING WATER MAIN
- EXISTING WATER CONDUIT
- EXISTING ELECTRICAL CABLE U/G
- EXISTING ELECTRICAL CABLE O/H
- EXISTING GAS MAIN
- EXISTING DRAIN
- PROPOSED TEMPORARY CUT-OFF DRAIN

**ASCON LEGEND**

- - - AS CONSTRUCTED CONTOUR



REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION
A	17.06.22	CL	AK	ISSUED FOR CONSTRUCTION
B	24.03.23	CL	AK	AS CONSTRUCTED

REVISION	DETAILS

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 10
COOLINGWOOD DRIVE, COOLINGWOOD PARK

DRAWING TITLE		
BULK EARTHWORKS LAYOUT PLAN		
PROJECT No. 18-0176	DRAWING No. 102	REVISION B

**AS-CONSTRUCTED CERTIFICATION**  
Signature: \_\_\_\_\_ Date: 24/03/23  
DANIEL COLLINS RPEQ No. 18631  
For and on behalf of Colliers International engineering & design pty ltd

**EARTHWORKS NOTE:**

- IT IS ASSUMED THAT STAGE 10 WILL INTERFACE WITH THE BULK EARTHWORKS SURFACE INCLUDED IN THE STAGE 9 OPERATIONAL WORKS PACKAGE U.N.O.
- REFER 18-0176-400 SERIES FOR OVERALL EARTHWORKS AND FURTHER DETAILS OF EARTHWORKS INTERFACING WITH FUTURE STAGES

NOTE:  
PL INDICATES FINISHED PAD LEVEL  
AS SHOWN ON LAYOUT PLAN

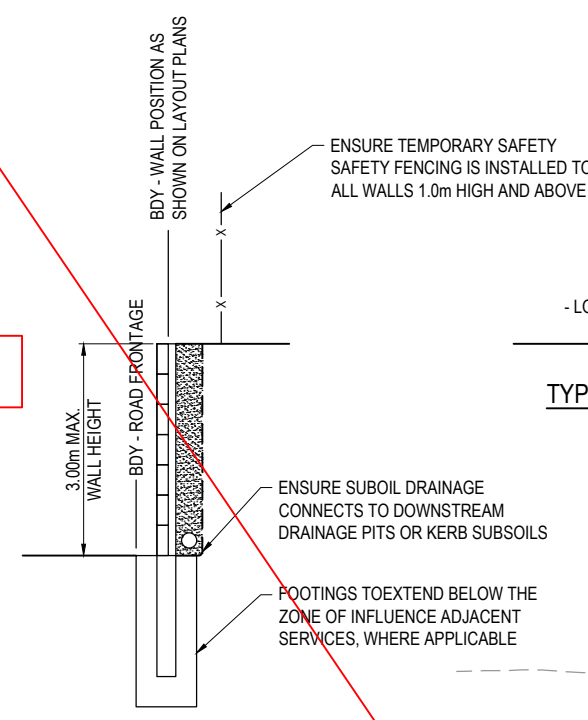
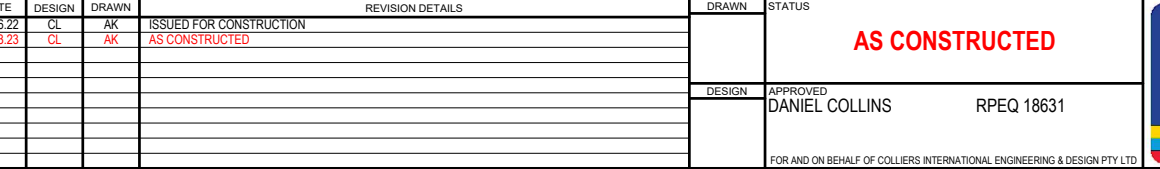
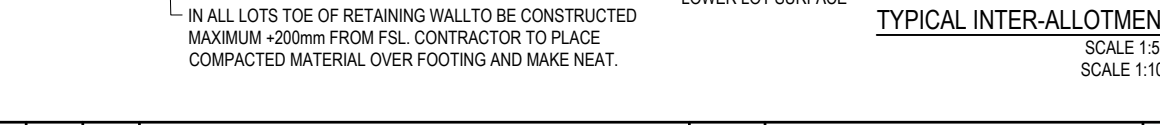
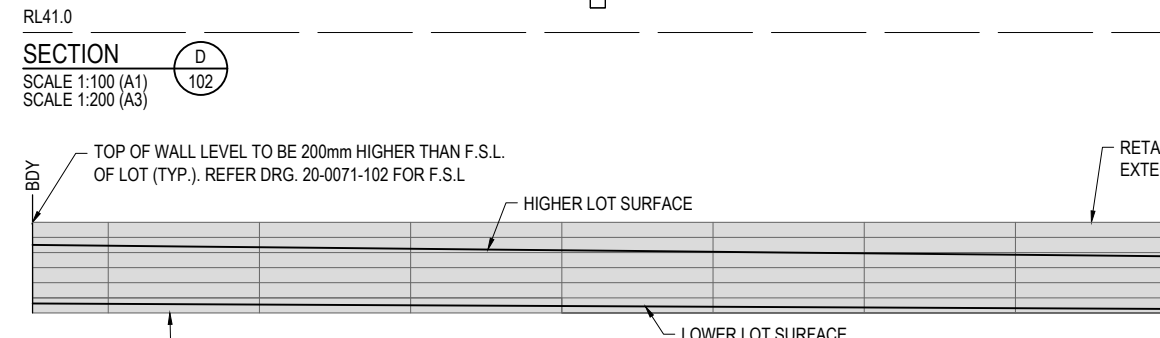
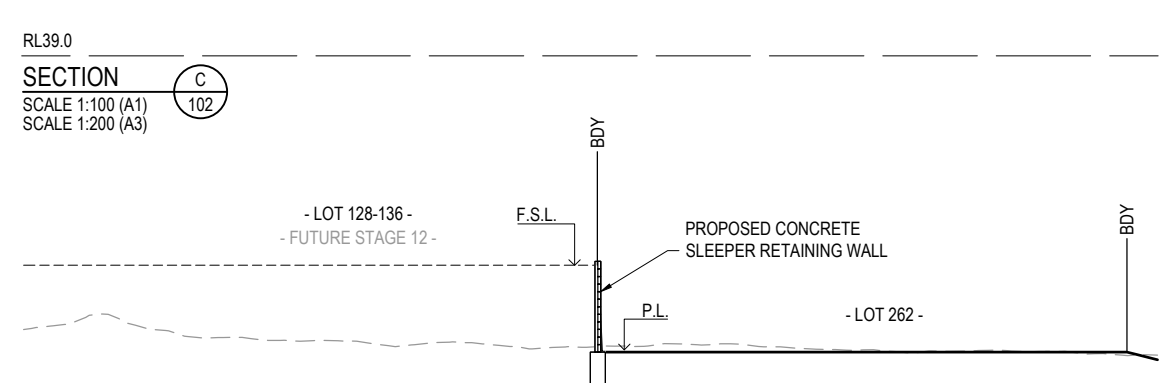
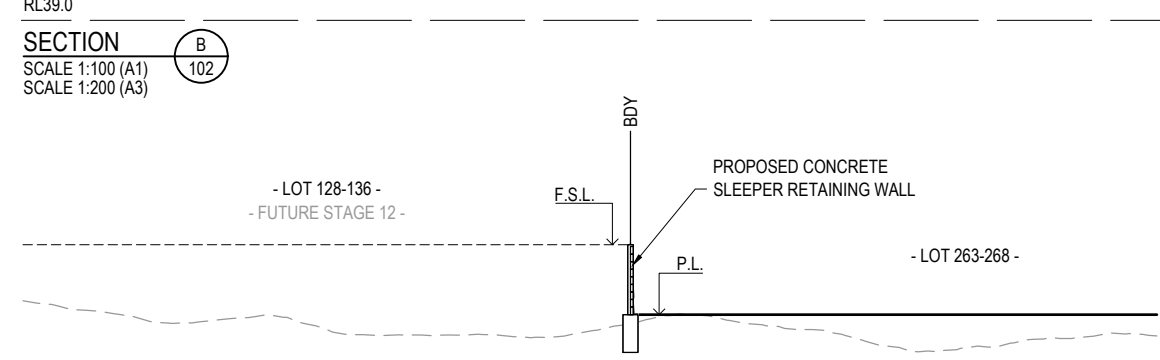
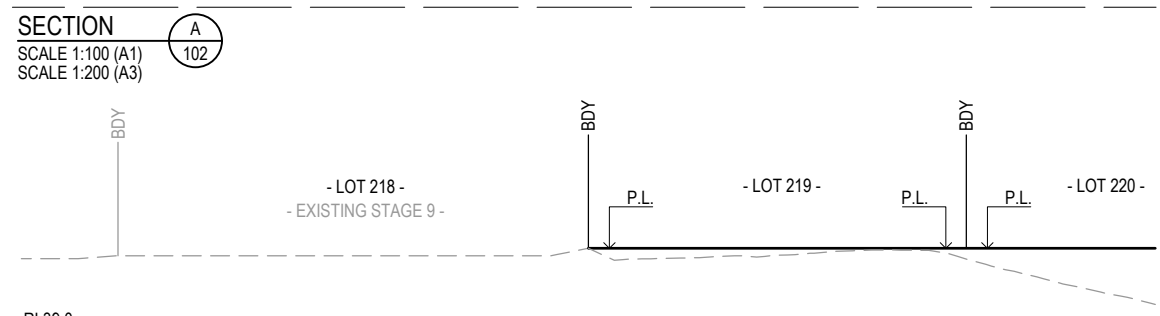
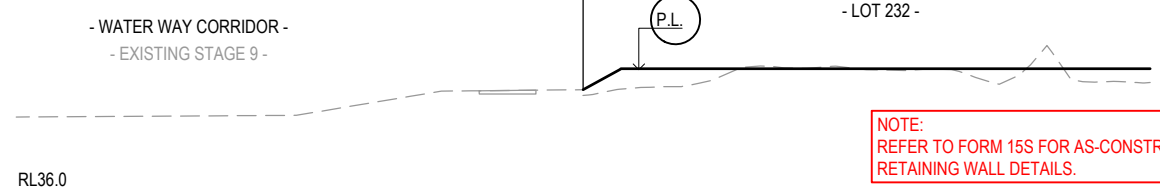
NOTE:  
REFER TO FORM 15S FOR AS-CONSTRUCTED  
RETAINING WALL DETAILS.

**RETAINING WALL NOTES:**

- ALL RETAINING WALLS ARE TO BE STRUCTURALLY DESIGNED AND CERTIFIED. FORMS 15 AND 16 ARE TO BE PROVIDED.
- DESIGN OF WALLS TO CONSIDER ALL LOADS (FENCES, DWELLINGS ETC) AND ASSOCIATED IMPACTS FROM ANY ADJACENT SERVICES - FOOTING DEPTHS TO BE EXTENDED AS REQUIRED.
- GEOTECHNICAL CONDITIONS ARE TO BE CONFIRMED AND APPROPRIATELY CONSIDERED FOR ALL WALLS.
- REFER LANDSCAPE DRAWINGS FOR FURTHER INFORMATION ON RETAINING WALLS, PARTICULARLY RELATING TO FINISHES.
- TEMPORARY SAFETY FENCING TO BE INSTALLED BEHIND ALL WALLS 1.0m HIGH AND GREATER.
- WALLS TO BE DESIGNED TO ACCOMMODATE A SURCHARGE SUITABLE FOR A RESIDENTIAL HOUSE IMMEDIATELY BEHIND THE WALL. REFER TYPICAL DETAIL.

WHERE EARTH RETAINING STRUCTURES FACE THE PUBLIC REALM THAT THEY ARE CONSTRUCTED EITHER OF A-GRADE SAWCUT SANDSTONE BLOCKS OR CONCRETE SLEEPERS WHICH ARE PROVIDED WITH TEXTURED FINISH AND FULL DEPTH COLOUR TREATMENT

RETAINING WALLS DO NOT FORM PART OF THIS APPROVAL.

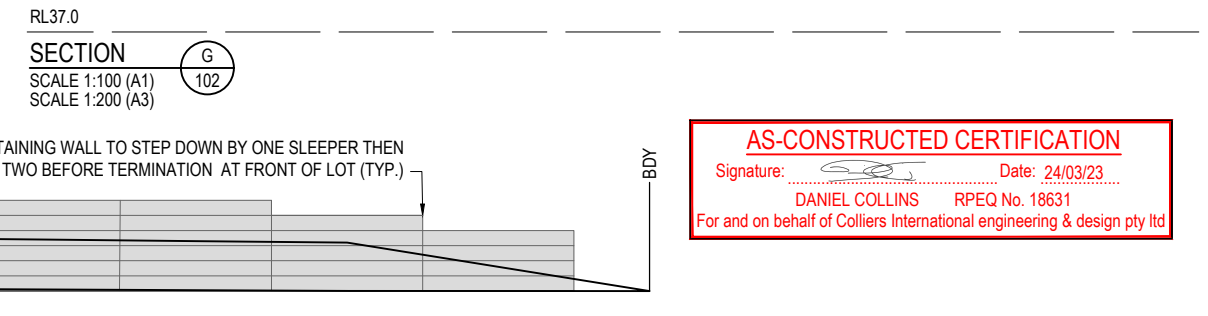
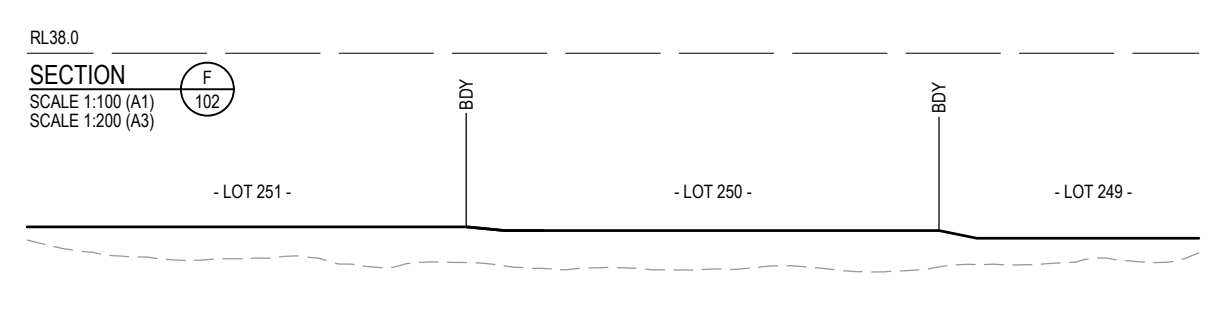
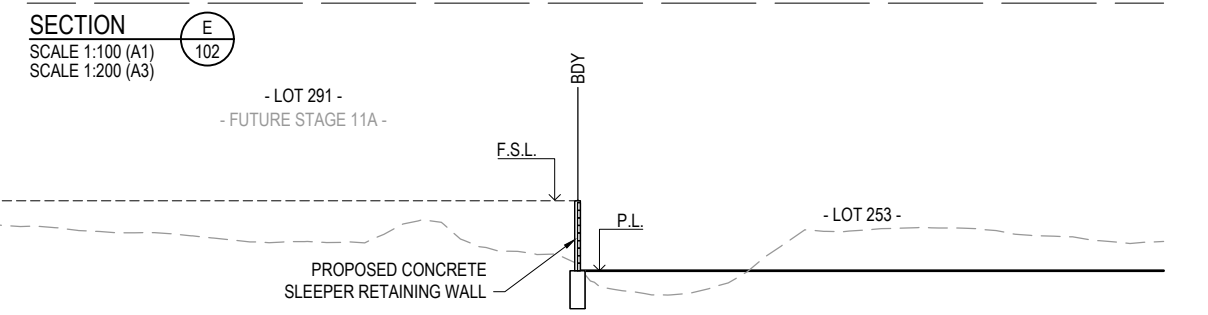
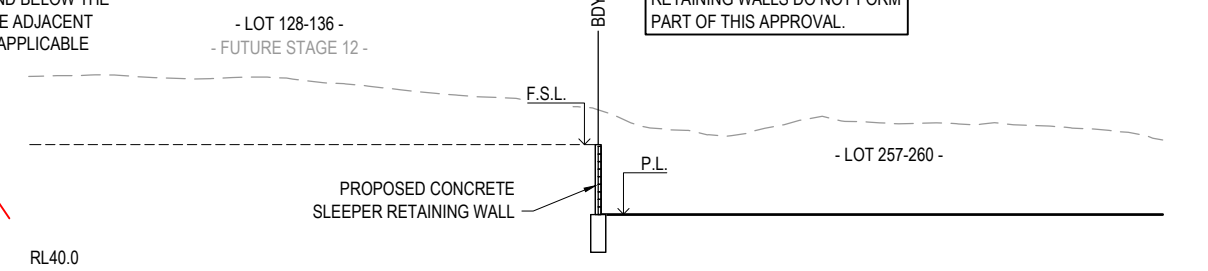


**CONCRETE SLEEPER RETAINING WALL TYPICAL DETAIL**  
SCALE 1:25 (A1)

BATTER 1:6 OR STEEPER ARE TO BE VEGETATED AND CERTIFIED AS STABLE BY AN EXPERIENCED AND SUITABLY QUALIFIED RPEQ ENGINEER.

THE APPLICANT MUST SUBMIT TO THE ASSESSMENT MANAGER A COPY OF ALL RELEVANT BUILDING APPROVALS AND ASSOCIATED DESIGN AND CONSTRUCTION FOR ALL EARTH RETAINING STRUCTURES THAT ARE NOT APPROVED BY THIS DEVELOPMENT PERMIT AND ARE CONSIDERED BUILDING WORKS IN ACCORDANCE WITH BUILDING ACT 1975.

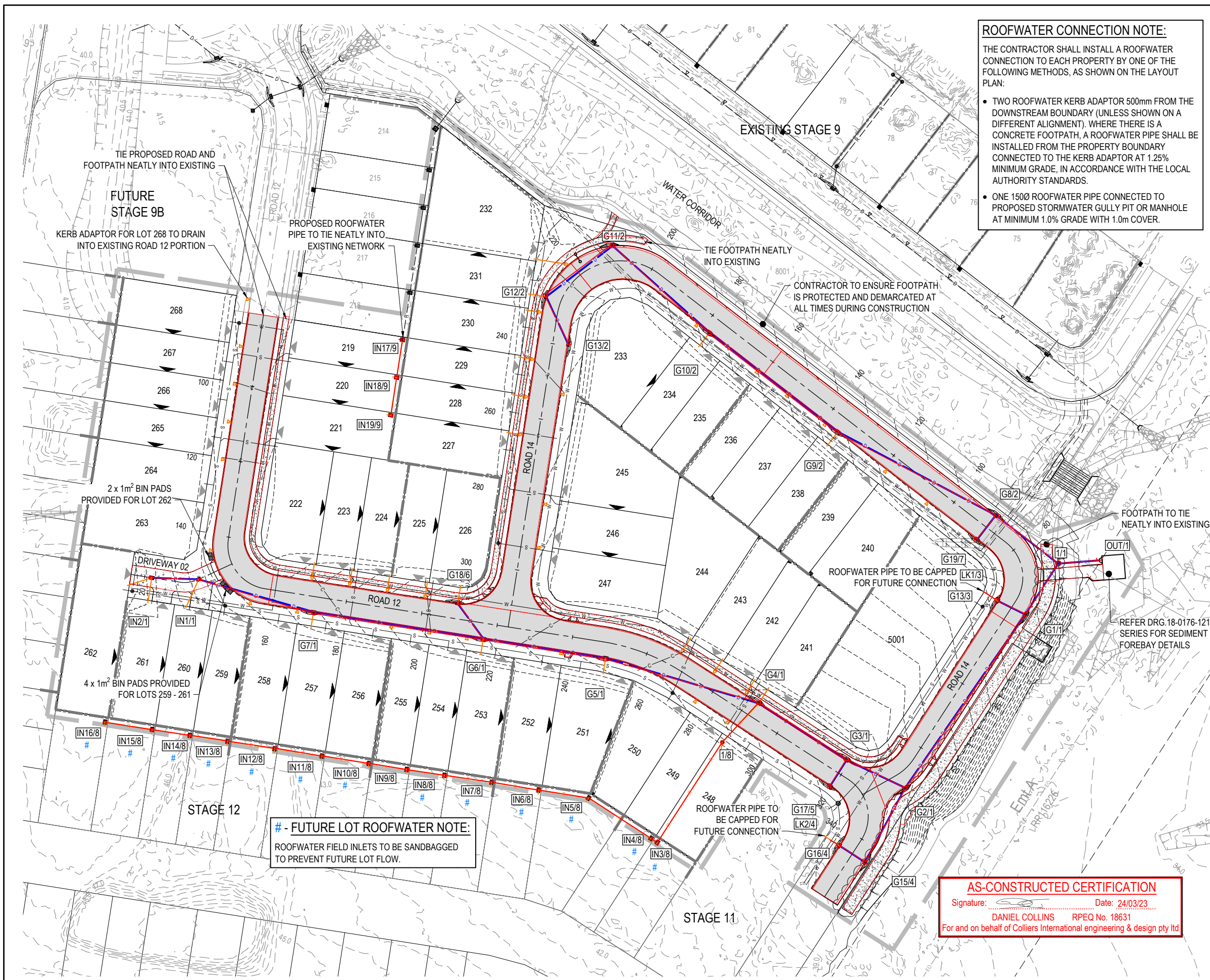
**HOLD POINT:**  
CONTRACTOR TO NOTIFY SUPERINTENDANT ONCE RETAINING WALL POST HOLES ARE DRILLED TO CONFIRM LOCATION OF REQUIRED STEPS IN RETAINING WALL SLEEPERS.



**TYPICAL INTER-ALLOTMENT WALL HEIGHT DETAIL**  
SCALE 1:50 (A1)  
SCALE 1:100 (A3)

**AS-CONSTRUCTED CERTIFICATION**  
Signature: *[Signature]* Date: 24/03/23  
DANIEL COLLINS RPEQ No. 18631  
For and on behalf of Colliers International engineering & design pty ltd

REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE	
A	17.06.22	CL	AK	ISSUED FOR CONSTRUCTION				1:25 0.25 0 0.25 0.5 0.75 1.0 1.25 A1	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 10	BULK EARTHWORKS TYPICAL SECTIONS	
B	24.03.23	CL	AK	AS CONSTRUCTED				1:50 1 0.5 0 1 2 A1	SAUNDERS HAVILL GROUP	COOLINGWOOD DRIVE, COOLINGWOOD PARK		
								1:100 1 0 1 2 3 4 5 A1				
								1:200 1 0 1 2 3 4 5 A3				
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD								PROJECT No. 18-0176		DRAWING No. 103		REVISION B



**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 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 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.

- LEGEND**
- PROPOSED AREA OF WORKS
  - PROPOSED ROAD CONTROL LINE
  - EXISTING ROAD CROWN
  - PROPOSED KERB INVERT LINE
  - EXISTING EDGE OF BITUMEN
  - PROPOSED KERB TRANSITION LOCATION
  - PROPOSED CONCRETE PATH AND PRAM RAMP
  - PROPOSED NEW ROAD PAVEMENT
  - PROPOSED CONCRETE DRIVEWAY
  - INDICATIVE DRIVEWAY LOCATION
  - ZERO LOT BOUNDARY
  - PROPOSED SURFACE CONTOUR
  - EXISTING SURFACE CONTOUR
  - PROPOSED STORMWATER DRAINAGE PIPE
  - EXISTING STORMWATER DRAINAGE PIPE
  - PROPOSED ROOFWATER DRAINAGE PIPE
  - EXISTING ROOFWATER DRAINAGE PIPE
  - PROPOSED DRAINAGE SWALE
  - EXISTING DRAIN
  - PROPOSED ROOFWATER KERB ADAPTOR
  - PROPOSED ROOFWATER KERB ADAPTOR WITH PIPE CONNECTION TO ALLOTMENT
  - PROPOSED SLEEPER RETAINING WALL
  - EXISTING SLEEPER 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
  - EXISTING ELECTRICAL CABLE O/H
  - EXISTING GAS MAIN

- ASCON LEGEND**
- STORMWATER DRAINAGE PIPE
  - STORMWATER MANHOLE
  - STORMWATER HEADWALL
  - STORMWATER PIT
  - EDGE OF ROAD
  - FOOTPATH

**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.

**# - FUTURE LOT ROOFWATER NOTE:**  
 ROOFWATER FIELD INLETS TO BE SANDBAGGED TO PREVENT FUTURE LOT FLOW.

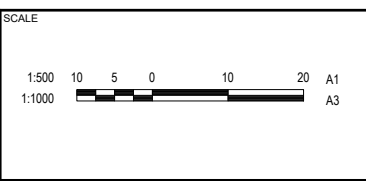
**AS-CONSTRUCTED CERTIFICATION**  
 Signature: \_\_\_\_\_ Date: 24/03/23  
 DANIEL COLLINS RPEQ No. 18631  
 For and on behalf of Colliers International engineering & design pty ltd

REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION
A	17.06.22	CL	AK	ISSUED FOR CONSTRUCTION
B	19.09.22	CL	AK	LOT CAL AND FOOTPATH AMENDED
C	23.03.23	CL	AK	AS CONSTRUCTED

**AS CONSTRUCTED**

DESIGN APPROVED  
 DANIEL COLLINS RPEQ 18631

FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD



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

ASSOCIATED CONSULTANT  
 SAUNDERS HAVILL GROUP  
 PH: 1300 123 744

PROJECT NAME  
**WOODLINKS VILLAGE - STAGE 10**

COOLINGWOOD DRIVE,  
 COOLINGWOOD PARK

DRAWING TITLE		
<b>ROADWORKS AND DRAINAGE LAYOUT PLAN</b>		
PROJECT No.	DRAWING No.	REVISION
18-0176	104	C



**LEGEND**

- PROPOSED AREA OF WORKS
- PROPOSED NEW ROAD PAVEMENT
- PROPOSED CONCRETE DRIVEWAY
- PROPOSED ROAD CONTROL LINE
- MKC PROPOSED MOUNTABLE KERB AND CHANNEL 'TYPE M1'
- BKC PROPOSED BARRIER KERB AND CHANNEL 'TYPE B1'
- PROPOSED KERB TRANSITION LOCATION
- PROPOSED CONCRETE PATH AND PRAM RAMP
- INDICATIVE DRIVEWAY LOCATION
- ZERO LOT BOUNDARY

**ASCON LEGEND**

- EDGE OF ROAD FOOTPATH

**CONTROL LINE SETOUT - ROAD 12**

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
CT	36.239	5860.214	3513.122	188°55'00.00"			
TC	140.390	5844.071	3410.230	188°55'00.00"			
IP 3	149.422	5842.288	3398.868		R = -11.500	18.064	90°00'00.00"
CT	158.454	5853.649	3397.086	98°55'00.00"			
TC	247.991	5942.105	3383.208	98°55'00.00"			
IP 4	259.285	5953.428	3381.431		R = 54.000	22.588	23°58'01.07"
CT	270.579	5963.053	3375.208	122°53'01.07"			
TC	322.234	6006.431	3347.163	122°53'01.07"			
IP 5	331.266	6016.089	3340.920		R = 11.500	18.064	90°00'00.00"
CT	340.298	6009.845	3331.262	212°53'01.07"			
TC	458.355	5945.748	3232.121	212°53'01.07"			

**CONTROL LINE SETOUT - DRIVEWAY 02**

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	5841.375	3401.916	245°04'45.49"			
TC	5.634	5836.266	3399.542	245°04'45.49"			
IP 2	8.217	5833.852	3398.421		R = 8.750	5.168	33°50'14.52"
CT	10.801	5831.223	3398.833	278°55'00.00"			
IP 3	23.625	5818.554	3400.821	278°55'00.00"			

**CONTROL LINE SETOUT - ROAD 14**

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	6010.187	3343.185	60°24'16.95"			
TC	9.959	6018.847	3348.104	60°24'16.95"			
IP 2	13.322	6021.829	3349.797		R = -14.000	6.725	27°31'15.78"
CT	16.684	6023.690	3352.676	32°53'01.17"			
TC	65.777	6050.344	3393.904	32°53'01.17"			
IP 3	74.321	6056.079	3402.774		R = -11.500	17.088	85°08'06.69"
CT	82.865	6047.727	3409.241	307°44'54.49"			
TC	197.610	5956.998	3479.487	307°44'54.49"			
IP 4	214.979	5934.589	3496.837		R = -16.750	34.740	118°49'54.49"
CT	232.349	5930.196	3468.839	188°55'00.00"			
IP 5	315.099	5917.370	3387.089	188°55'00.00"			

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: \_\_\_\_\_ Date: 24/03/23  
 DANIEL COLLINS RPEQ No. 18631  
 For and on behalf of Colliers International engineering & design pty ltd

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ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

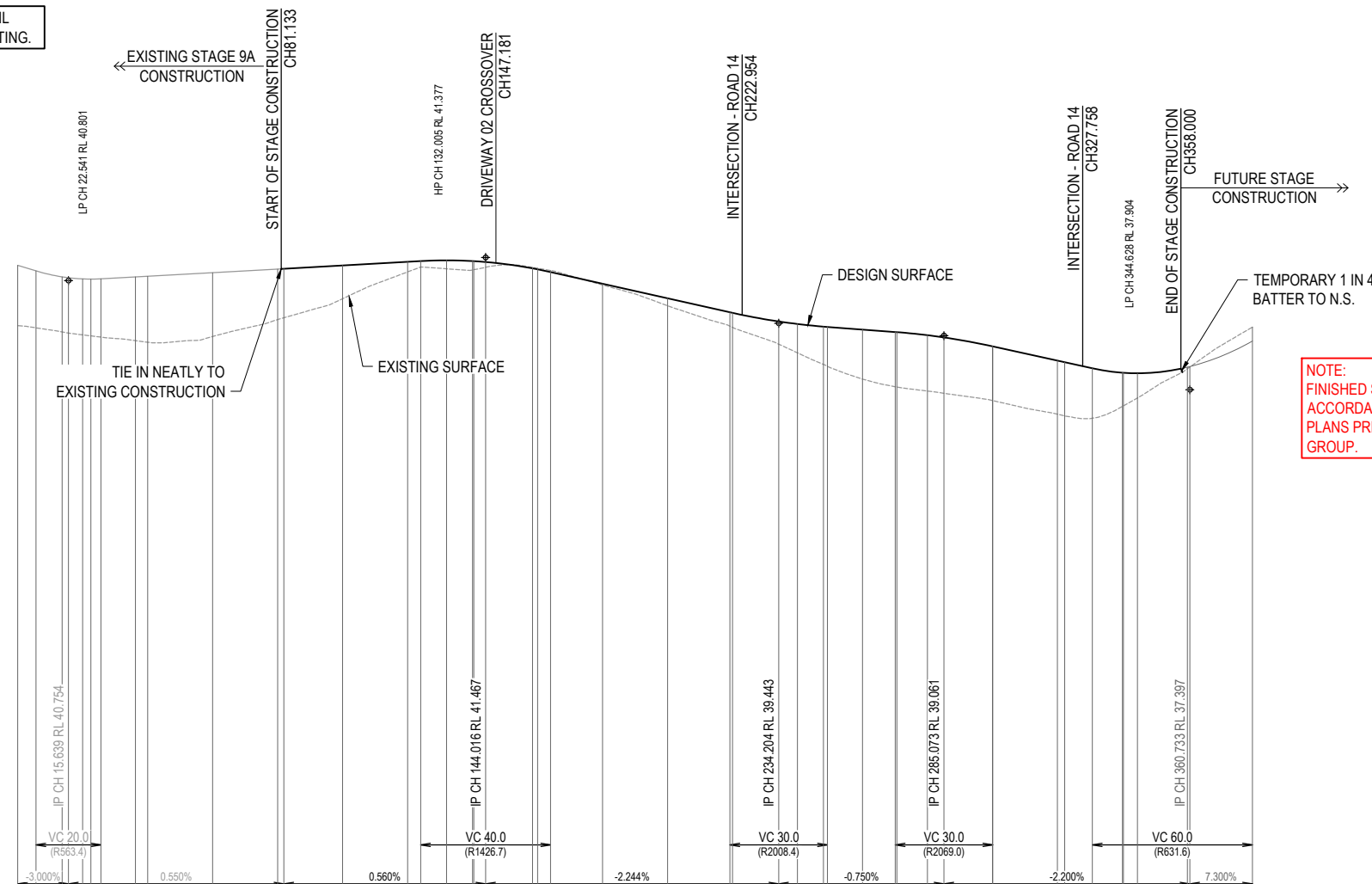
ROAD	ROAD CLASSIFICATION	DESIGN ESAS	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 12	ACCESS STREET	1.0 x 10 <sup>5</sup>	3	35mm	125mm	100mm	160mm	420mm

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

PAVEMENT DESIGN SUBJECT TO COUNCIL APPROVAL FOLLOWING INSITU CBR TESTING.

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
ROAD 12	CH80 - CH160	A1	5%	360mm	35mm	125mm	100mm	100mm	-
ROAD 12	CH160 - CH344	A1	4.5%	360mm	35mm	125mm	100mm	100mm	-



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

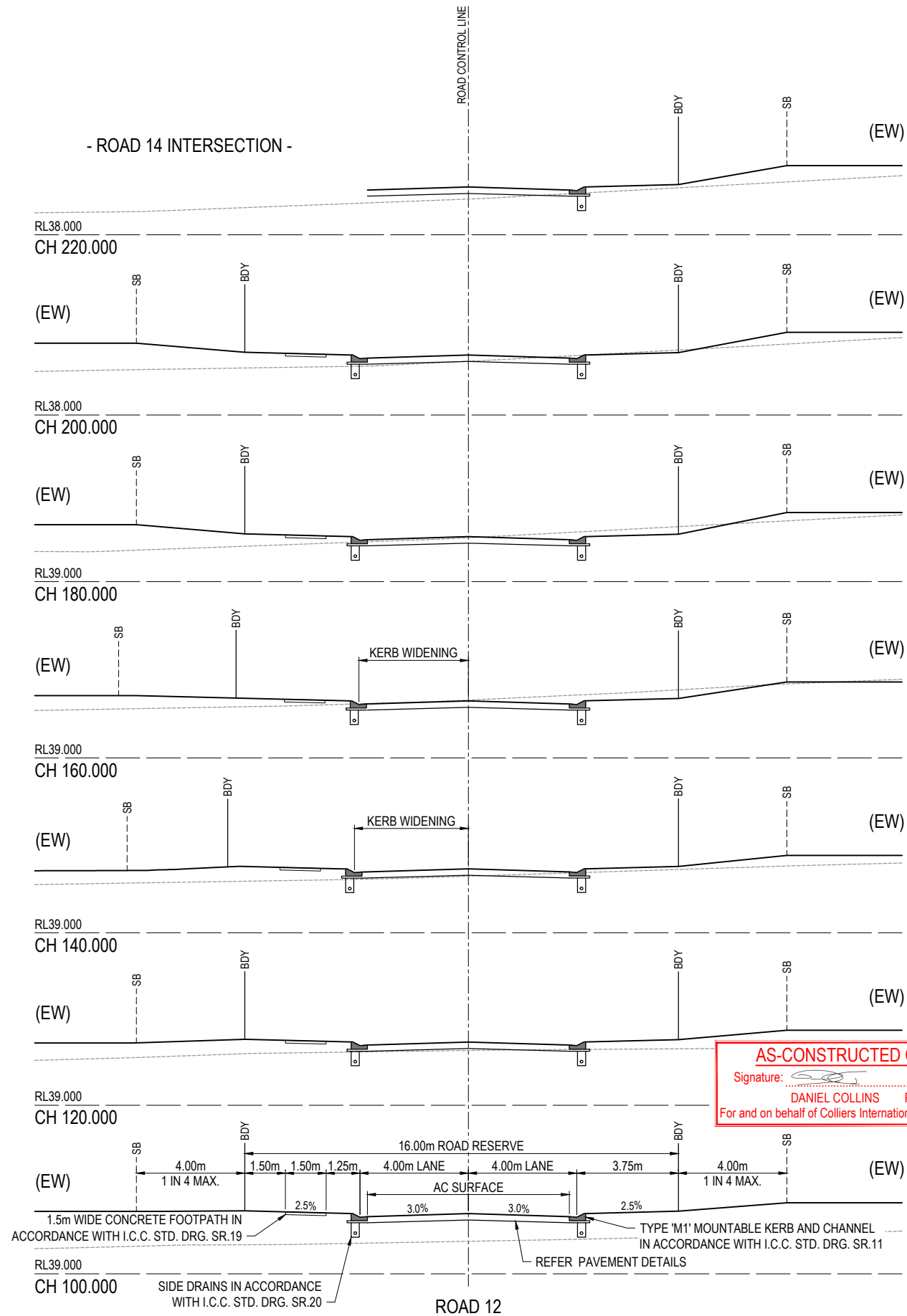
DATUM RL 21.0		CHAINAGES	DESIGN SURFACE	EXISTING SURFACE	CUT (-) / FILL	LHS LIP LEVEL	RHS LIP LEVEL
		0.000	41.223	39.371	1.853	41.185	41.199
		5.639	41.054	39.303	1.751	40.980	40.968
		13.700	40.870	39.176	1.694	40.770	40.648
		15.639	40.843	39.141	1.702	40.743	40.738
		20.000	40.807	39.086	1.720	40.706	40.701
		22.541	40.801	39.065	1.745	40.700	40.696
		25.639	40.809	39.077	1.792	40.704	40.704
		36.239	40.868	39.908	1.960	40.762	40.762
		40.000	40.888	38.859	2.029	40.783	40.783
		60.000	40.998	39.037	1.961	40.893	40.893
		80.000	41.108	39.557	1.551	41.003	41.003
		81.913	41.119	39.612	1.507	41.007	41.007
		100.000	41.220	40.199	1.021	41.108	41.108
		120.000	41.332	41.022	0.310	41.220	41.220
		124.016	41.173	41.173	0.182	41.243	41.243
		132.005	41.119	41.377	0.258	41.265	41.265
		140.000	41.084	41.084	0.271	41.243	41.243
		140.390	41.092	41.352	0.260	41.241	41.241
		144.016	41.166	41.326	0.160	41.215	41.215
		158.454	41.162	41.132	-0.030	41.020	41.020
		160.000	41.135	41.102	-0.033	40.991	40.991
		164.016	41.066	41.018	-0.048	40.906	40.906
		180.000	40.621	40.659	0.038	40.547	40.547
		200.000	39.984	40.210	0.227	40.099	40.099
		219.204	39.356	39.780	0.423	39.668	39.668
		220.000	39.317	39.762	0.444	39.650	39.650
		234.204	38.802	39.499	0.697	39.387	39.387
		240.000	38.533	39.421	0.888	39.309	39.309
		247.991	38.178	39.340	1.162	39.228	39.228
		249.204	38.116	39.330	1.215	39.219	39.219
		260.000	37.726	39.250	1.523	39.138	39.138
		270.073	37.490	39.174	1.684	39.062	39.062
		270.579	37.482	39.170	1.688	39.058	39.058
		280.000	37.359	39.076	1.717	38.964	38.964
		285.073	37.290	39.007	1.717	38.895	38.895
		300.000	37.067	38.733	1.666	38.621	38.621
		300.073	37.066	38.731	1.666	38.620	38.620
		320.000	36.647	38.293	1.647	38.244	38.244
		322.234	36.583	38.244	1.651	38.244	38.244
		330.733	36.518	38.057	1.539	38.057	38.057
		340.000	36.885	37.921	1.036	37.921	37.921
		340.288	36.901	37.919	1.018	37.919	37.919
		344.628	37.146	37.904	0.758	37.798	37.798
		360.000	38.045	38.091	0.046	37.979	37.985
		360.733	38.097	38.109	0.012	37.998	38.004
		380.000	38.323	38.895	-0.429	38.783	38.788

# REFER INTERSECTION DRAWINGS FOR LIP LEVELS

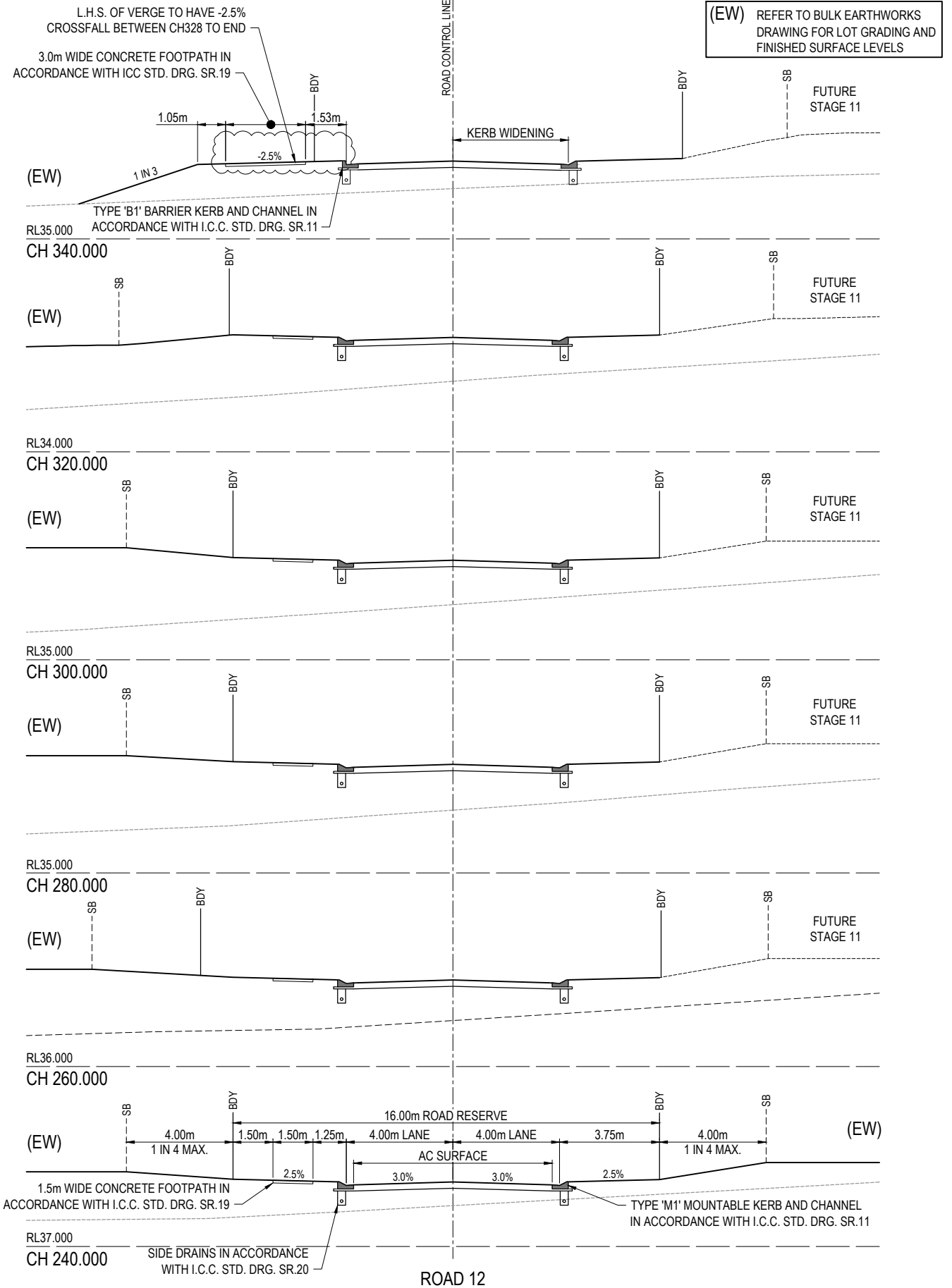
ROAD 12

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- ROAD 14 INTERSECTION -

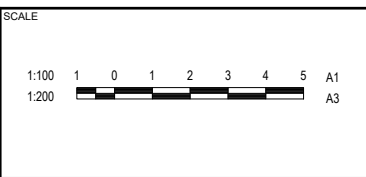


**AS-CONSTRUCTED CERTIFICATION**  
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 For and on behalf of Colliers International engineering & design pty ltd



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
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C	24.03.23	CL	AK	AS CONSTRUCTED

DRAWN	STATUS
DANIEL COLLINS	AS CONSTRUCTED



CLIENT

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

ASSOCIATED CONSULTANT

SAUNDERS HAVILL GROUP

PH: 1300 123 744

PROJECT NAME

**WOODLINKS VILLAGE - STAGE 10**

COOLINGWOOD DRIVE,  
COOLINGWOOD PARK

DRAWING TITLE		
<b>ROAD 12 CROSS SECTIONS</b>		
PROJECT No.	DRAWING No.	REVISION
18-0176	107	C



ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAS	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 14	ACCESS STREET	1.0 x 10 <sup>5</sup>	3	35mm	125mm	100mm	160mm	420mm

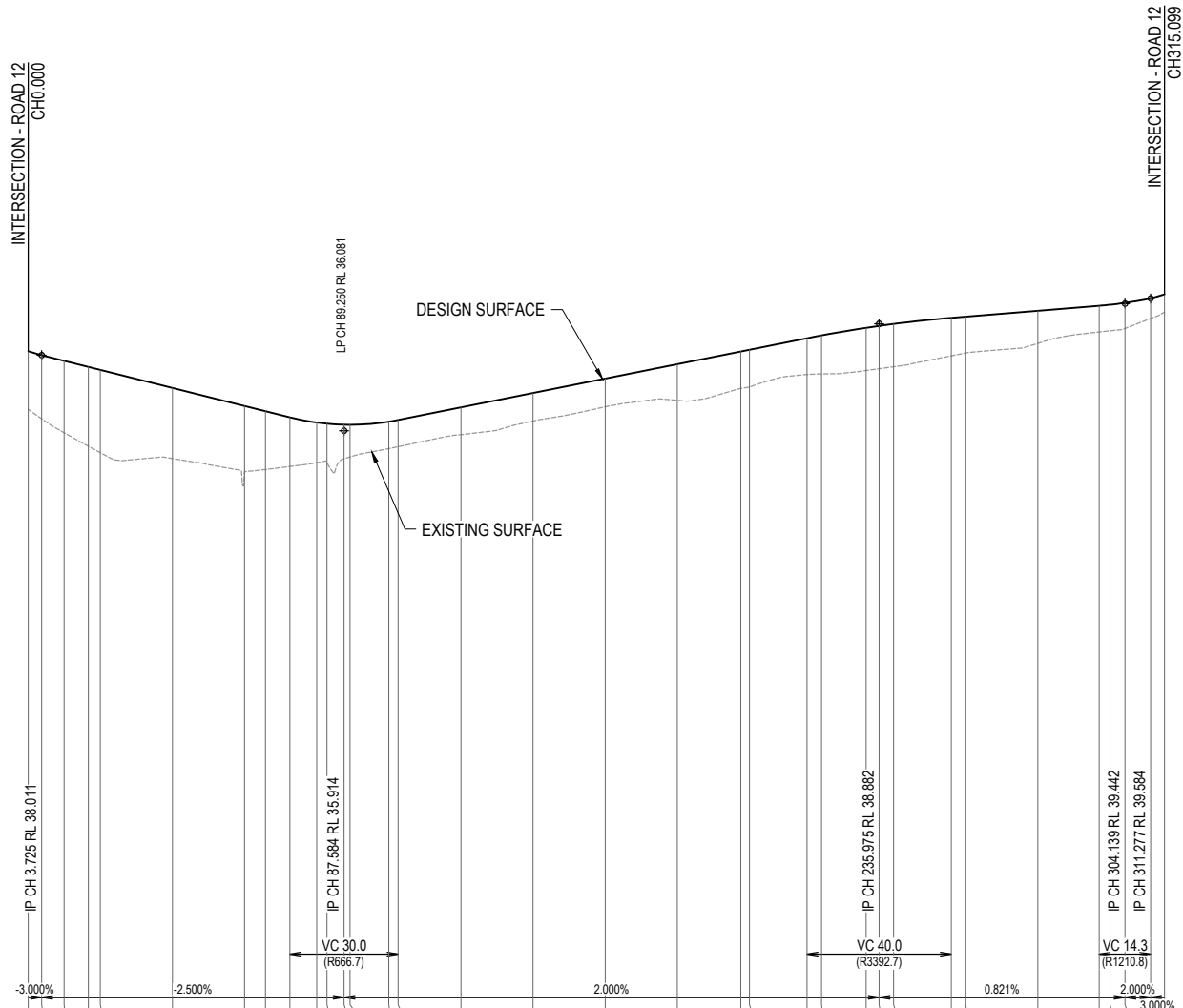
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PAVEMENT DESIGN SUBJECT TO COUNCIL APPROVAL FOLLOWING INSITU CBR TESTING

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
ROAD 14	CH0.0- CH60	A1	3.5%	395mm	35mm	125mm	100mm	135mm	-
ROAD 14	CH60- CH160	A1	10%	260mm	35mm	125mm	100mm	100mm	-
ROAD 14	CH160- CH220	A1	7%	275mm	35mm	125mm	115mm	-	-
ROAD 14	CH220- END	A1	3.5%	395mm	35mm	125mm	100mm	135mm	-

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



	0.000	3.725	9.959	16.684	20.000	40.000	60.000	65.777	72.584	80.000	82.865	87.584	89.250	100.000	102.584	120.000	140.000	160.000	180.000	197.610	200.000	215.975	220.000	232.349	235.975	240.000	255.975	260.000	280.000	297.001	300.000	304.139	311.277	315.099					
CUT (-) / FILL	1.615	1.761	1.995	2.201	2.295	1.959	1.822	1.618	1.364	1.114	1.076	0.944	0.891	0.747	0.740	0.755	0.777	0.782	1.003	1.026	1.032	1.006	1.066	1.183	1.187	1.188	1.053	1.006	0.904	0.727	0.722	0.710	0.557	0.494					
LHS LIP LEVEL	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#				
RHS LIP LEVEL	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#				
DESIGN SURFACE	38.122	38.011	37.855	37.687	37.492	36.992	36.604	36.459	36.289	36.145	36.111	35.977	35.974	35.969	36.056	36.102	36.456	36.962	37.362	37.762	38.115	38.162	38.056	38.375	38.448	38.770	38.658	38.711	38.711	38.766	38.934	38.934	39.079	39.243	39.383	39.411	39.463	39.584	39.699
EXISTING SURFACE	36.507	36.249	35.860	35.667	35.309	35.145	34.782	34.841	34.925	35.031	35.035	35.139	35.189	35.420	35.474	35.808	36.166	36.580	36.759	37.088	37.130	37.476	37.494	37.587	37.636	37.689	37.983	38.073	38.340	38.656	38.690	38.753	39.027	39.205	39.271	39.300	39.411	39.584	39.699
CHAINAGES	0.000	3.725	9.959	16.684	20.000	40.000	60.000	65.777	72.584	80.000	82.865	87.584	89.250	100.000	102.584	120.000	140.000	160.000	180.000	197.610	200.000	215.975	220.000	232.349	235.975	240.000	255.975	260.000	280.000	297.001	300.000	304.139	311.277	315.099					
HORIZONTAL CURVES	R-14.000		R-11.500				R-16.750																																

# REFER INTERSECTION DRAWINGS FOR LIP LEVELS

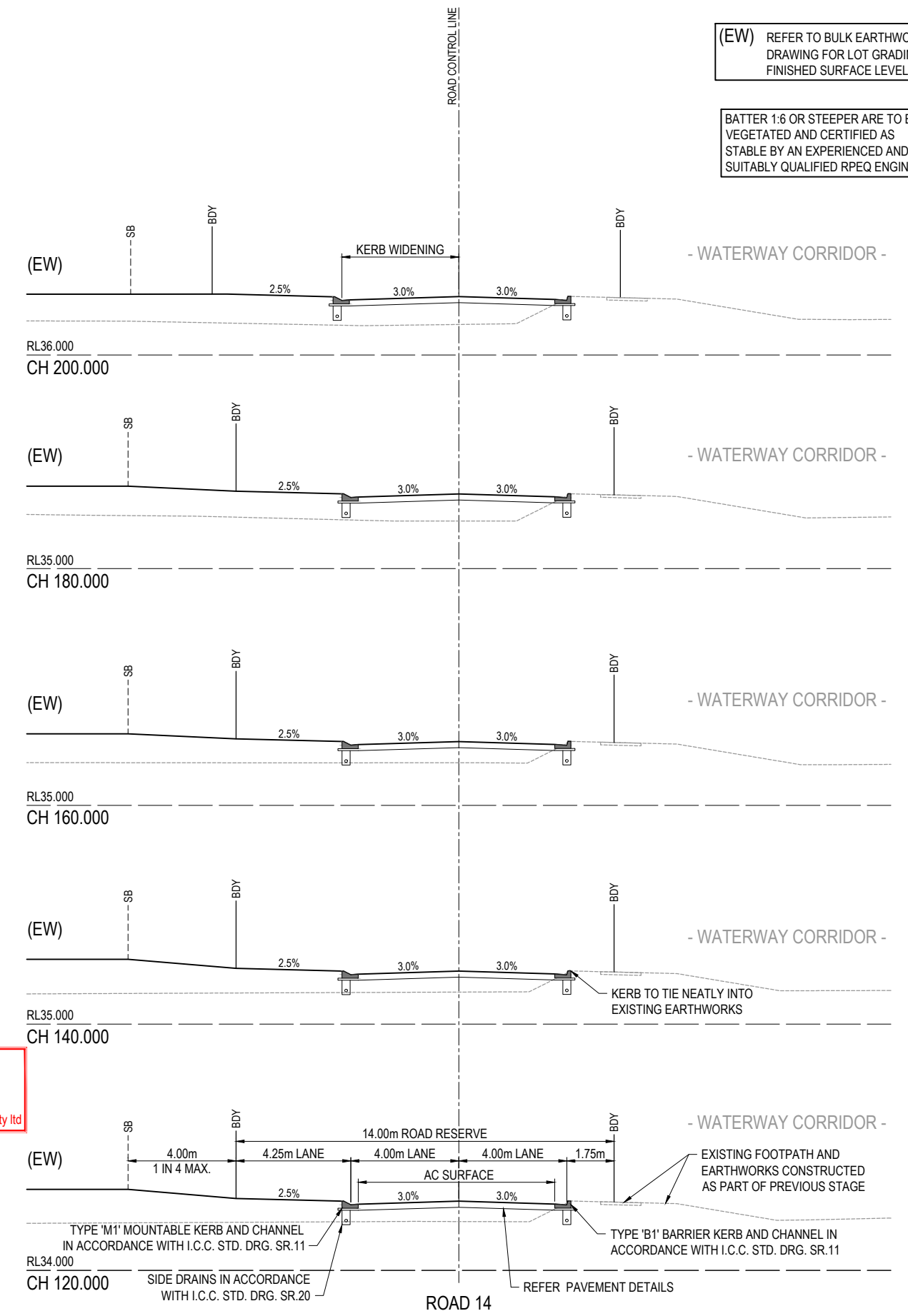
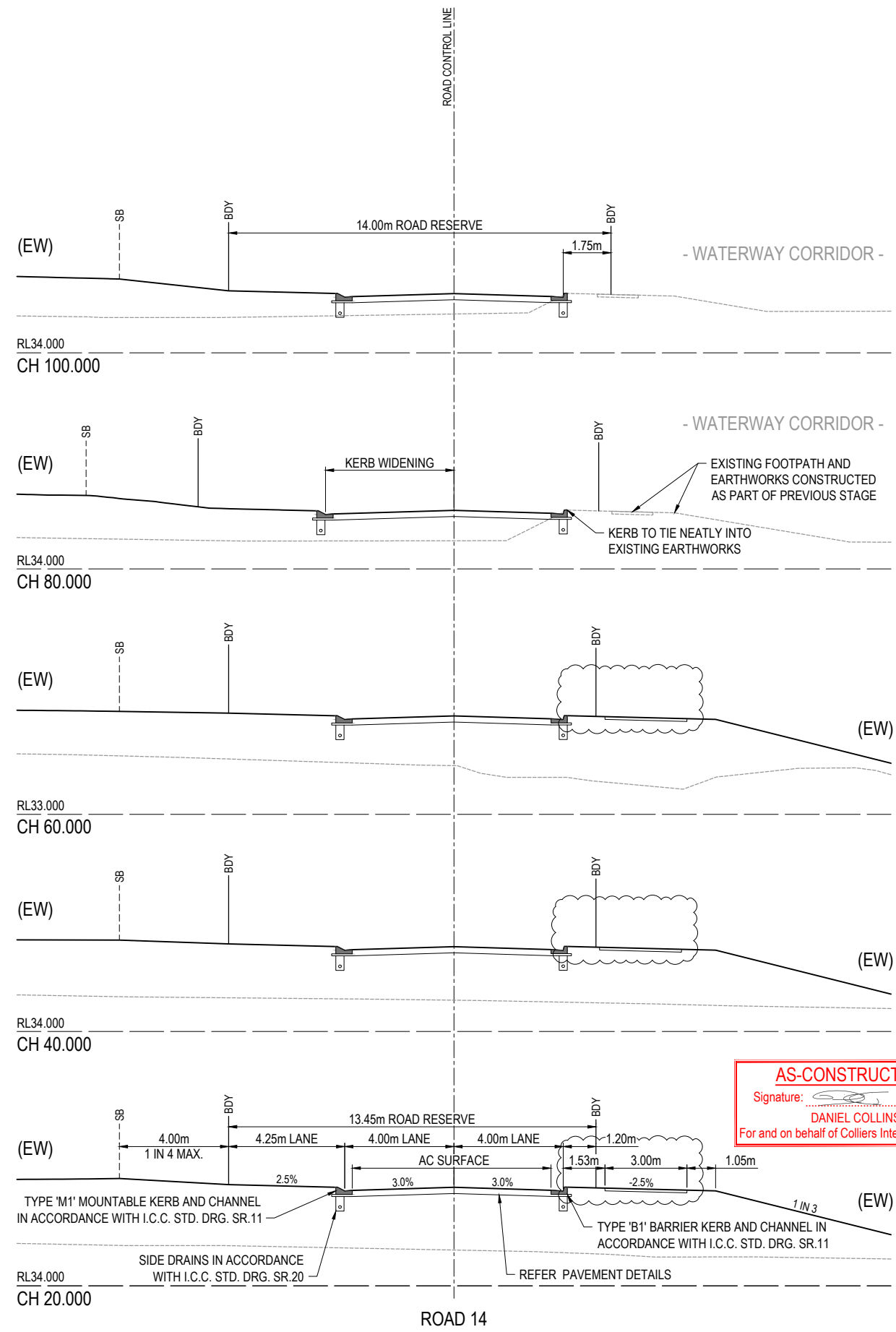
ROAD 14

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: Date: 24/03/23  
 DANIEL COLLINS RPEQ No. 18631  
 For and on behalf of Colliers International engineering & design pty ltd

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18-0176	108	B																																		

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

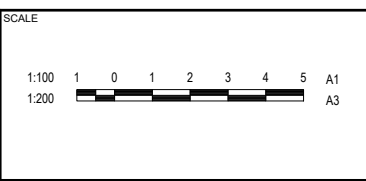
BATTER 1:6 OR STEEPER ARE TO BE VEGETATED AND CERTIFIED AS STABLE BY AN EXPERIENCED AND SUITABLY QUALIFIED RPEQ ENGINEER.



**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *[Signature]* Date: 24/03/23  
 DANIEL COLLINS RPEQ No. 18631  
 For and on behalf of Colliers International engineering & design pty ltd

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	17.06.22	CL	AK	ISSUED FOR CONSTRUCTION
B	19.09.22	CL	AK	FOOTPATH AMENDED
C	24.03.23	CL	AK	AS CONSTRUCTED

DRAWN	STATUS
<b>AS CONSTRUCTED</b>	
DESIGN APPROVED DANIEL COLLINS RPEQ 18631	
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD	



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

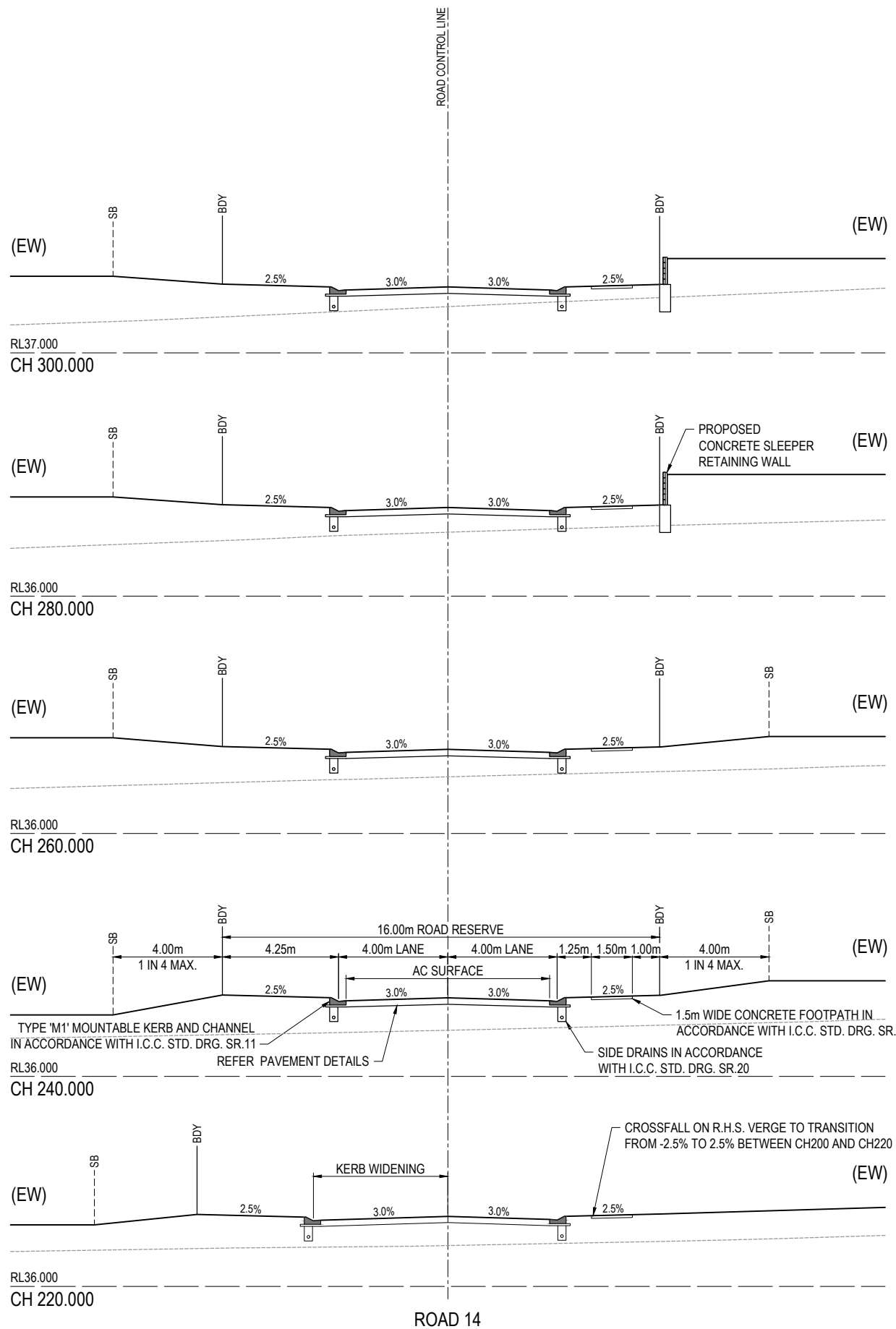
PROJECT NAME  
**WOODLINKS VILLAGE - STAGE 10**  
 COOLINGWOOD DRIVE,  
 COOLINGWOOD PARK

DRAWING TITLE		
<b>ROAD 14 CROSS SECTIONS SHEET 1 OF 2</b>		
PROJECT No.	DRAWING No.	REVISION
18-0176	109	C

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

RETAINING WALLS DO NOT FORM PART OF THIS APPROVAL.

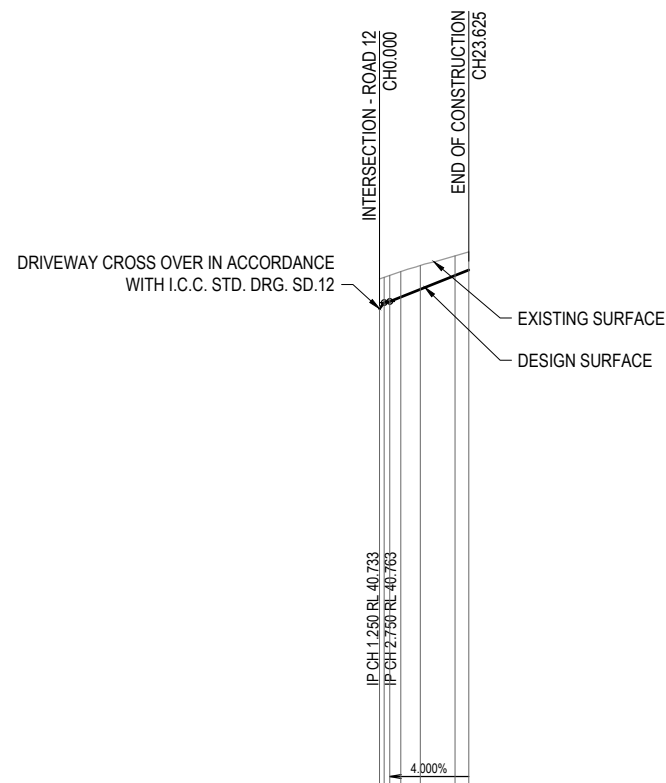
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A	17.06.22	CL	AK	ISSUED FOR CONSTRUCTION		<b>AS CONSTRUCTED</b>	1:100 1:200	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 10	ROAD 14 CROSS SECTIONS SHEET 2 OF 2		
B	24.03.23	CL	AK	AS CONSTRUCTED								
DESIGN APPROVED DANIEL COLLINS RPEQ 18631							ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744		COOLINGWOOD DRIVE, COOLINGWOOD PARK			
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD									PROJECT No. 18-0176		DRAWING No. 110	REVISION B

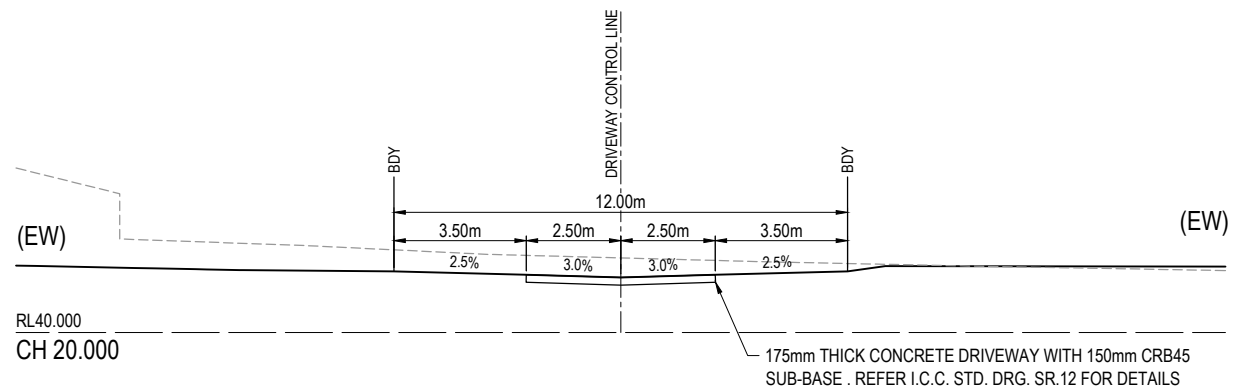




NOTE:  
FINISHED SURFACE LEVELS IN  
ACCORDANCE WITH THE AS-CONSTRUCTED  
PLANS PREPARED BY SAUNDERS HAVILL  
GROUP.

DATUM RL 27.0	
CUT (-) / FILL	-0.786 -0.670 -0.692 -0.677 -0.631 -0.519 -0.479
LHS LIP LEVEL	DRIVEWAY CROSSOVER 40.953 40.953 41.160 41.528 41.673
RHS LIP LEVEL	40.953 41.160 41.528 41.673
DESIGN SURFACE	40.574 40.733 40.763 40.878 41.085 41.160 41.453 41.598
EXISTING SURFACE	41.360 41.403 41.455 41.596 41.716 41.801 41.972 42.077
CHAINAGES	0.000 1.250 2.750 5.634 10.801 20.000 23.625
HORIZONTAL CURVES	R8.750

DRIVEWAY 02

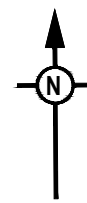
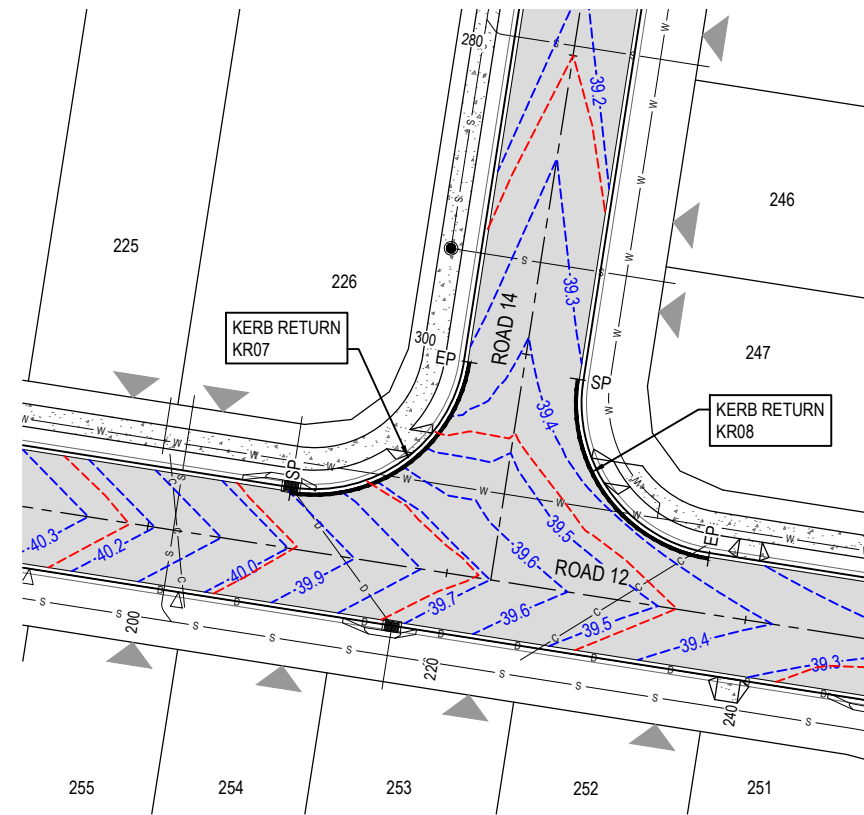
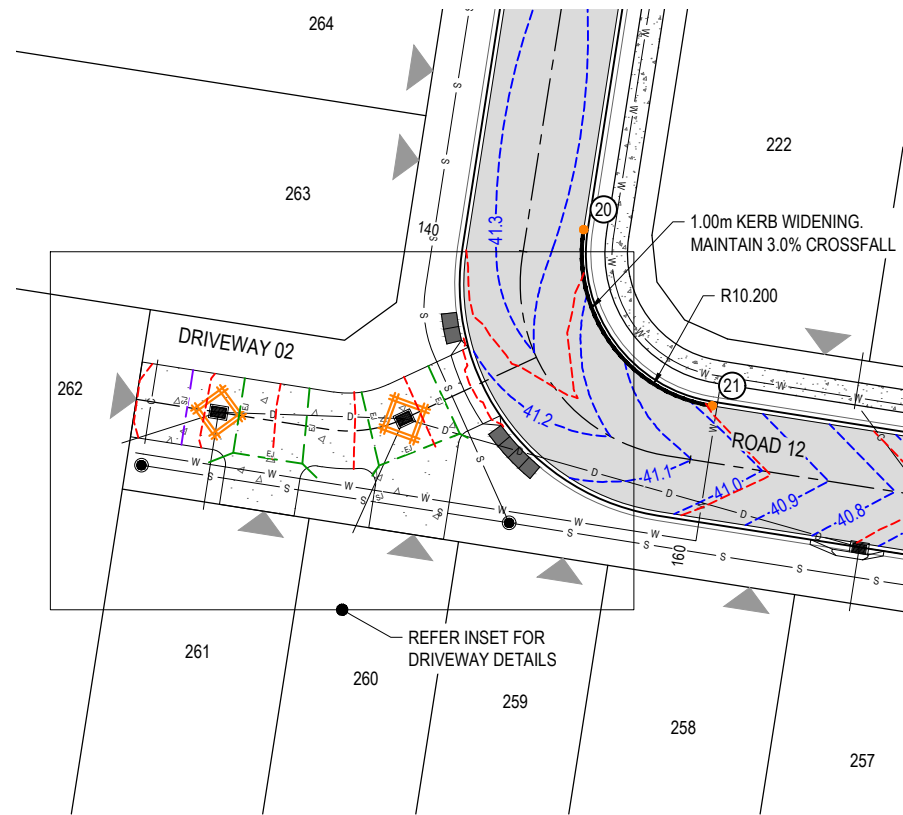


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B	24.03.23	CL	AK	AS CONSTRUCTED		<b>AS CONSTRUCTED</b>		SAUNDERS HAVILL GROUP PH: 1300 123 744	COOLINGWOOD DRIVE, COOLINGWOOD PARK	PROJECT No. 18-0176 DRAWING No. 111 REVISION B

**KERB WIDENING SETOUT 1**

NUMBER	EASTING	NORTHING
20	5848.127	3412.048
21	5856.623	3400.390

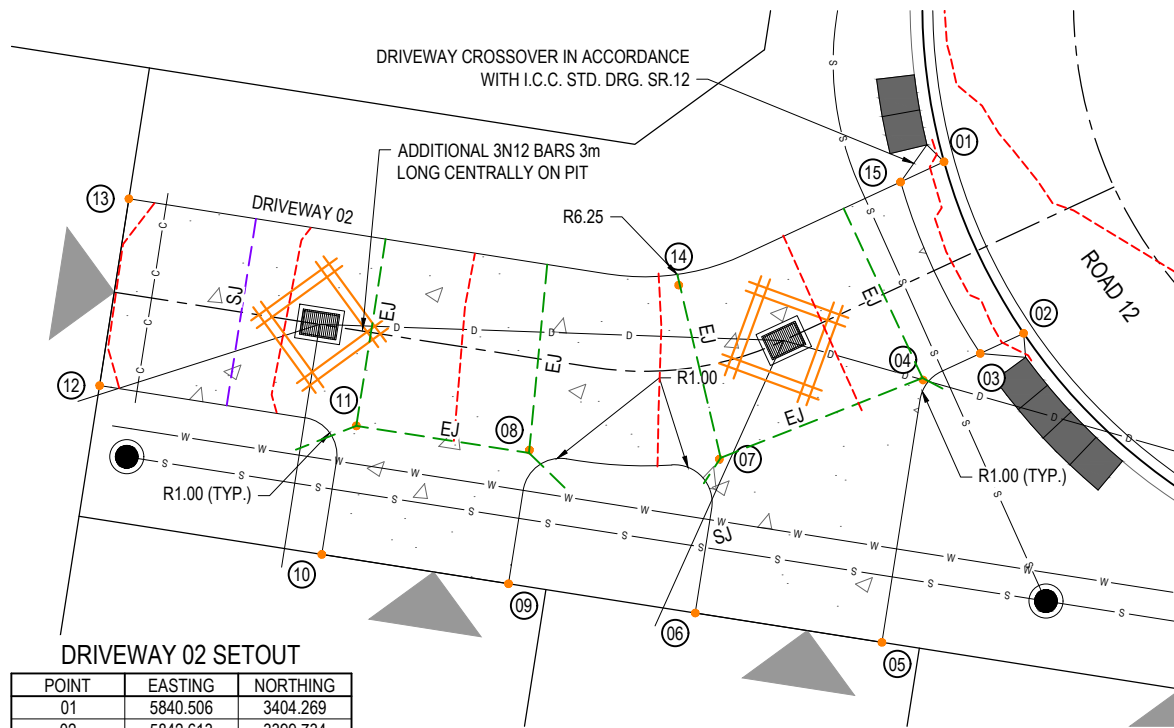


**LEGEND**

- 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 STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED SEWERAGE MAIN
- EXISTING SEWERAGE MAIN
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER CONDUIT
- PROPOSED KERB SETOUT LINE
- PROPOSED KERB SETOUT START POINT
- PROPOSED KERB SETOUT END POINT
- PROPOSED EXPANSION/CONSTRUCTION JOINT
- PROPOSED SAWN CONTRACTION JOINT
- TRIMMER BARS - N12 BARS 2000 LONG 50 COVER TO CORNER

**ASCON LEGEND**

- AS CONSTRUCTED CONTOUR



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

DATUM RL 38.0		KR07		KR08	
LIP LEVEL		SP	EP	SP	EP
NORTHING		IP CH 4.104 RL 39.810	IP CH 12.311 RL 39.357	IP CH 4.104 RL 39.357	IP CH 10.551 RL 39.385
EASTING					
CHAINAGES					
HORIZONTAL CURVES		R-10.450		R-10.450	

**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.

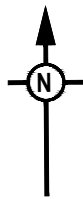
**DRIVEWAY 02 SETOUT**

POINT	EASTING	NORTHING
01	5840.506	3404.269
02	5842.613	3399.734
03	5841.465	3399.201
04	5839.953	3398.498
05	5838.864	3391.561
06	5833.925	3392.336
07	5834.563	3396.404
08	5829.540	3396.646
09	5828.985	3393.111
10	5824.046	3393.886
11	5824.958	3397.286
12	5818.167	3398.351
13	5818.942	3403.291
14	5833.489	3401.008
15	5839.358	3403.735

**INSET DETAIL**  
SCALE 1:100 (A1)  
SCALE 1:200 (A3)

**AS-CONSTRUCTED CERTIFICATION**  
Signature: \_\_\_\_\_ Date: 24/03/23  
DANIEL COLLINS RPEQ No. 18631  
For and on behalf of Colliers International engineering & design pty ltd

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PROJECT No.	DRAWING No.	REVISION																												
18-0176	112	B																												



REFER SHEET 1 FOR LEGEND

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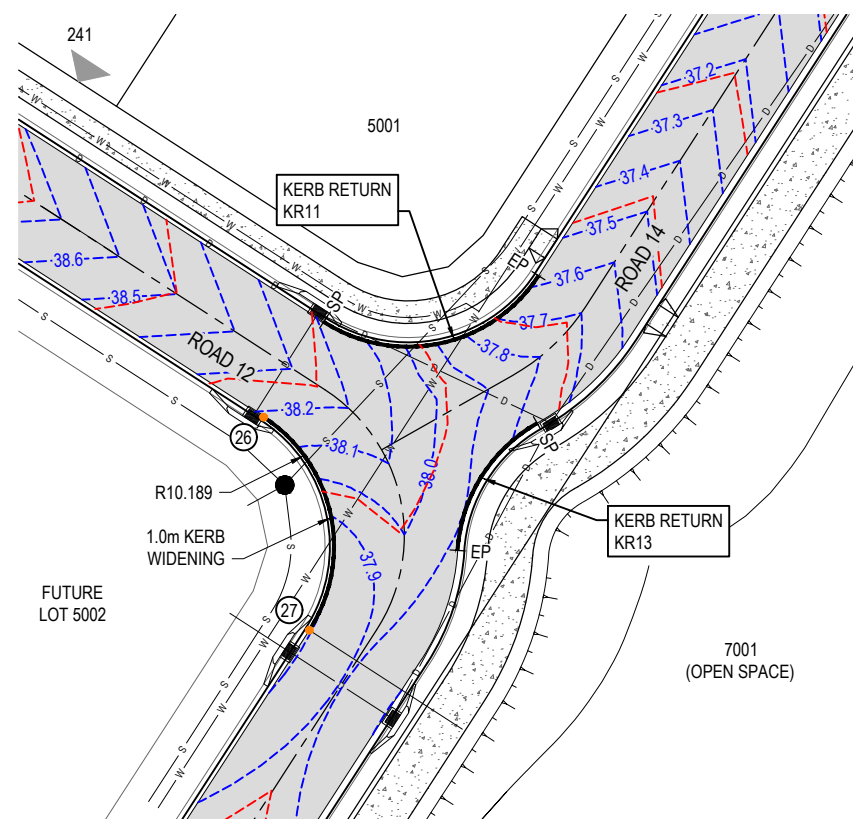
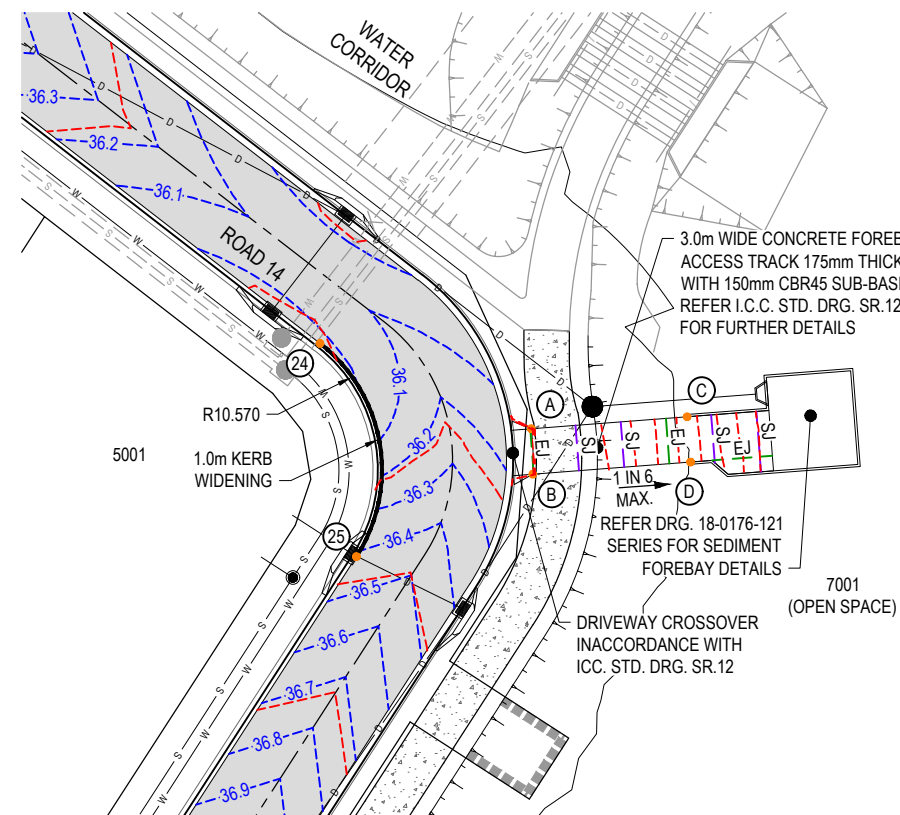
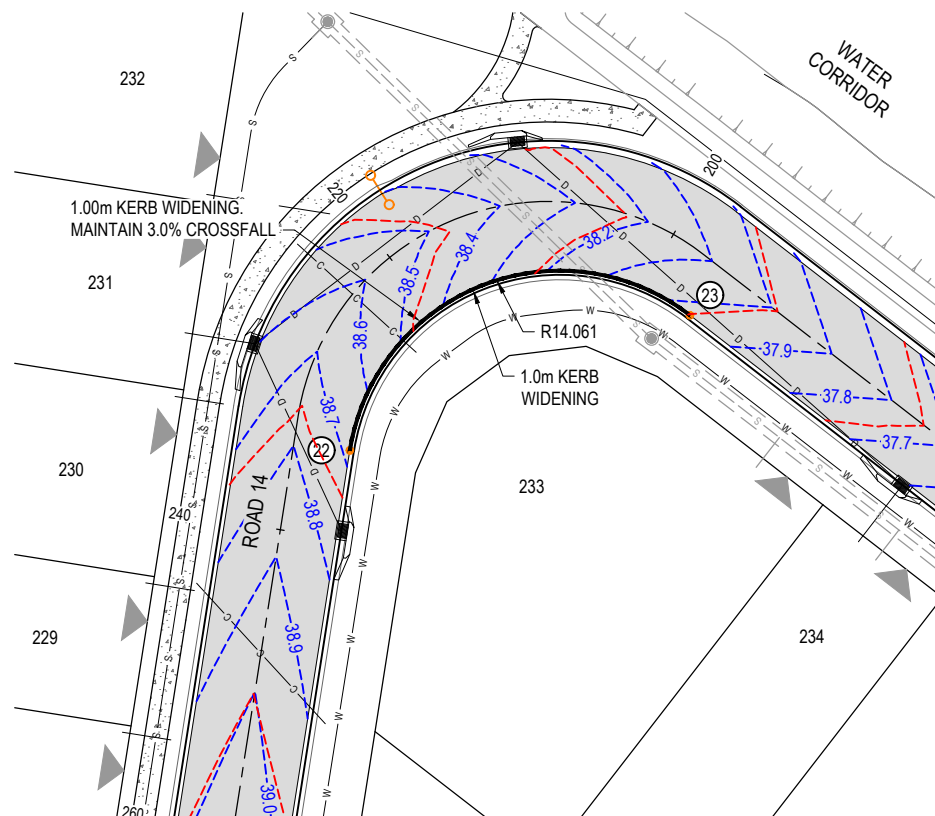
THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

**KERB WIDENING SETOUT 2**

NUMBER	EASTING	NORTHING
22	5933.604	3466.530
23	5956.103	3475.468
24	6043.417	3407.867
25	6045.822	3393.770
26	6002.382	3345.346
27	6005.406	3331.257

**ACCESS TRACK SETOUT**

POINT	EASTING	NORTHING
A	6057.388	3402.224
B	6057.492	3399.223
C	6067.699	3403.015
D	6067.928	3400.024

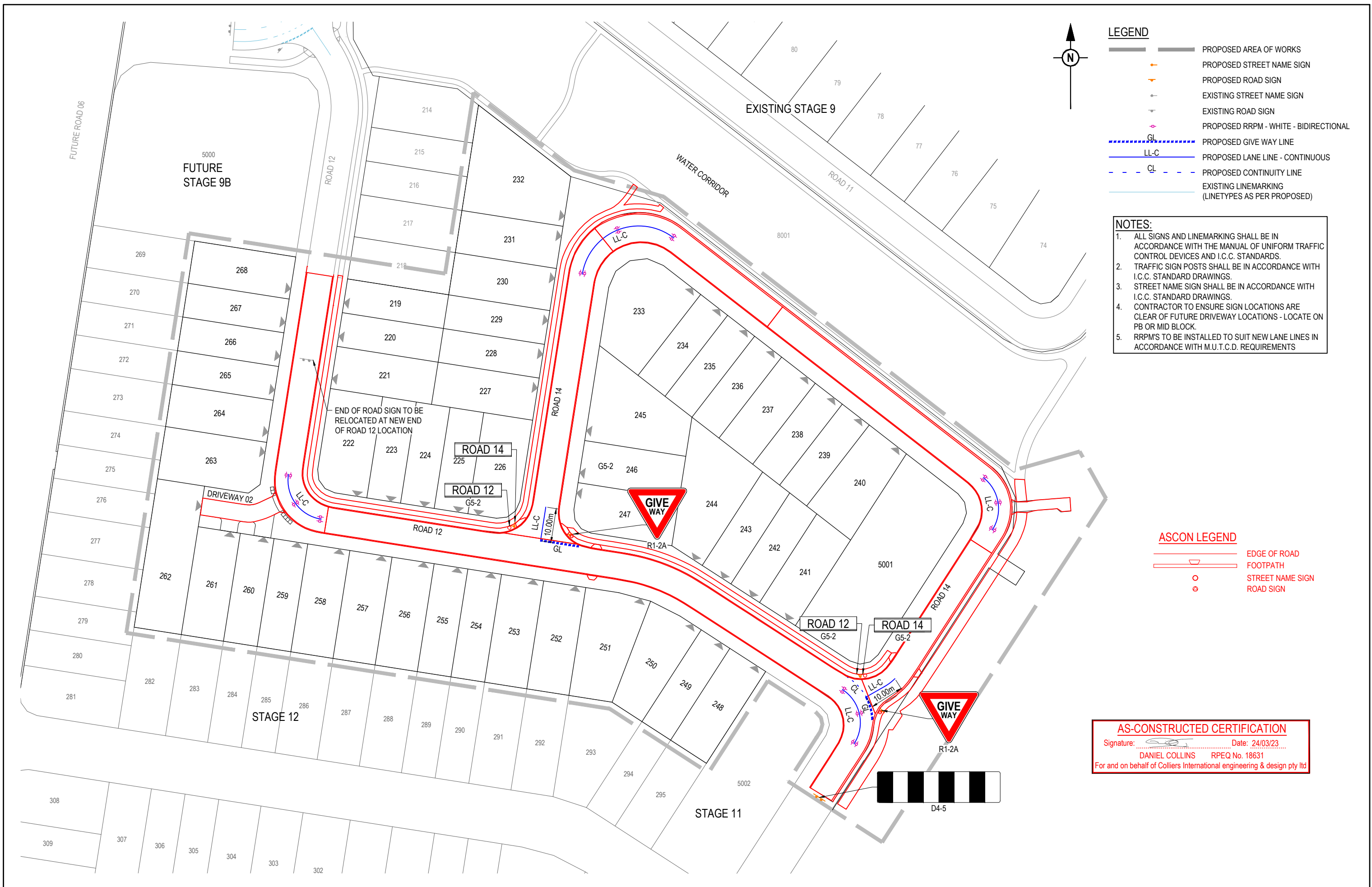


NOTE:  
FINISHED SURFACE LEVELS IN ACCORDANCE WITH THE AS-CONSTRUCTED PLANS PREPARED BY SAUNDERS HAVILL GROUP.

	IP CH 4.0335 RL 38.098	IP CH 12.105 RL 37.676	IP CH 2.599 RL 37.815	IP CH 7.797 RL 37.922	IP CH 8.103 RL 37.898
DATUM RL 36.0					
LIP LEVEL	38.187	37.707	37.812	37.922	37.880
NORTHING	3351.649	3351.821	3343.433	3341.428	3336.534
EASTING	6006.354	6017.770	6018.435	6016.391	6015.206
CHAINAGES	0.000	12.000	2.599	7.797	10.396
HORIZONTAL CURVES	R-10.275		R-10.450		

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: \_\_\_\_\_ Date: 24/03/23  
**DANIEL COLLINS** RPEQ No. 18631  
 For and on behalf of Colliers International engineering & design pty ltd

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		<b>AS CONSTRUCTED</b>																									



**LEGEND**

	PROPOSED AREA OF WORKS
	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 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. STANDARD DRAWINGS.
  3. STREET NAME SIGN SHALL BE IN ACCORDANCE WITH I.C.C. STANDARD DRAWINGS.
  4. CONTRACTOR TO ENSURE SIGN LOCATIONS ARE CLEAR OF FUTURE DRIVEWAY LOCATIONS - LOCATE ON PB OR MID BLOCK.
  5. RRPM'S TO BE INSTALLED TO SUIT NEW LANE LINES IN ACCORDANCE WITH M.U.T.C.D. REQUIREMENTS

**ASCON LEGEND**

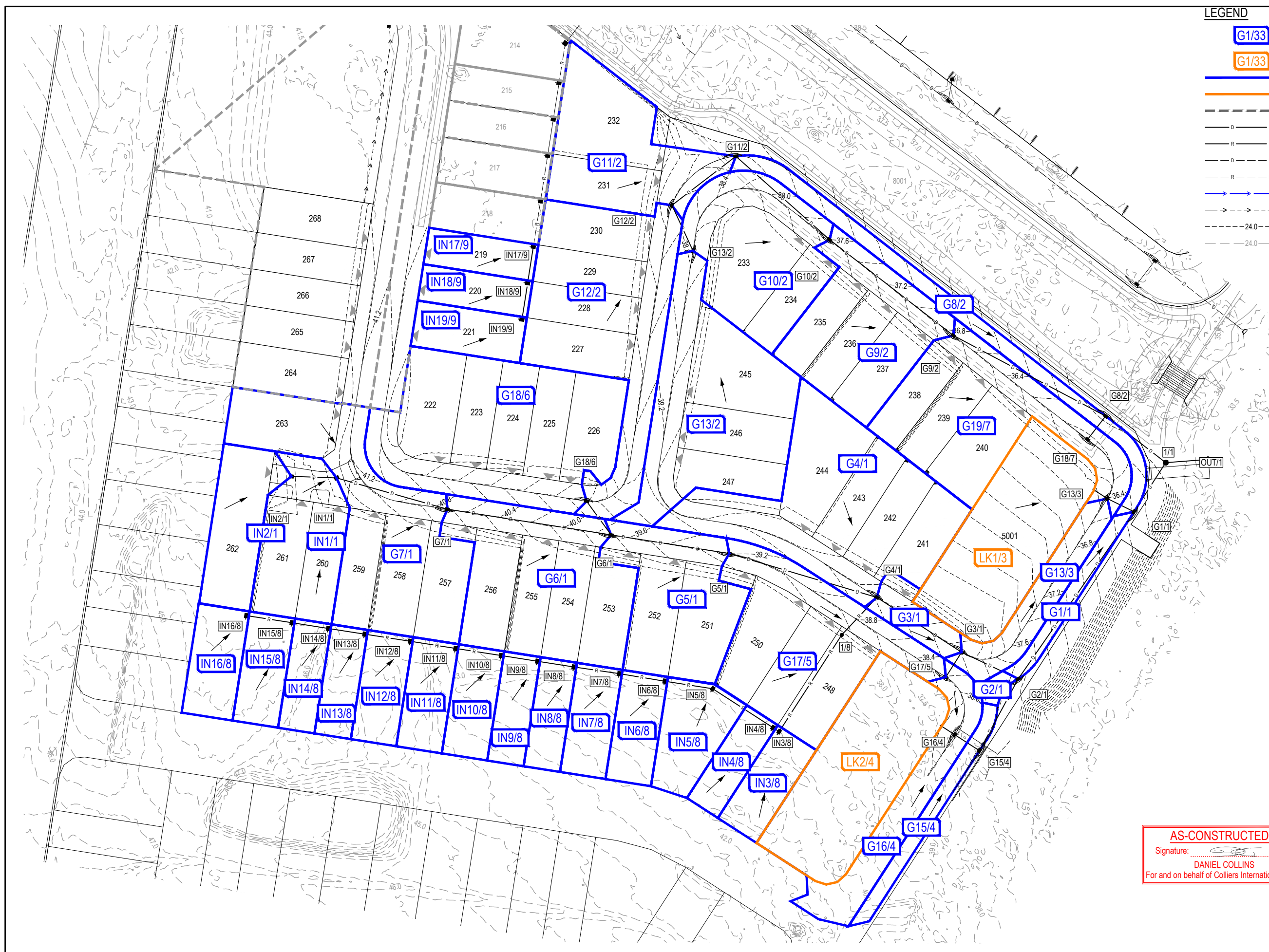
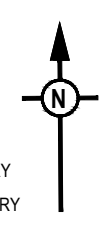
	EDGE OF ROAD
	FOOTPATH
	STREET NAME SIGN
	ROAD SIGN

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: Date: 24/03/23  
 DANIEL COLLINS RPEQ No. 18631  
 For and on behalf of Colliers International engineering & design pty ltd

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**LEGEND**

- G1/33 CATCHMENT NAME
- G1/33 FUTURE CATCHMENT NAME
- CATCHMENT BOUNDARY
- FUTURE CATCHMENT BOUNDARY
- EXISTING CATCHMENT BOUNDARY
- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED ROOFWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- EXISTING ROOFWATER DRAINAGE PIPE
- PROPOSED SWALE DRAIN
- EXISTING SWALE DRAIN
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR



**AS-CONSTRUCTED CERTIFICATION**  
 Signature: \_\_\_\_\_ Date: 24/03/23  
 DANIEL COLLINS RPEQ No. 18631  
 For and on behalf of Colliers International engineering & design pty ltd

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B	24.03.23	CL	AK	AS CONSTRUCTED	

DRAWN	STATUS	<b>AS CONSTRUCTED</b>
DESIGN	APPROVED	DANIEL COLLINS RPEQ 18631
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD		



SCALE

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

ASSOCIATED CONSULTANT  
 SAUNDERS HAVILL GROUP  
 PH: 1300 123 744

PROJECT NAME  
**WOODLINKS VILLAGE - STAGE 10**

COOLINGWOOD DRIVE,  
 COOLINGWOOD PARK

DRAWING TITLE <b>STORMWATER DRAINAGE      CATCHMENT LAYOUT PLAN</b>		
PROJECT No.	DRAWING No.	REVISION
<b>18-0176</b>	<b>115</b>	<b>B</b>



STRUCTURE NAME	IN2/1	IN1/1	G7/1	G6/1	G5/1	G4/1	G3/1	G2/1	G1/1	1/1	OUT/1
STRUCTURE DESCRIPTION	STD FIELD INLET TYPE 2 (INVERTED GRATED LID) 900x600	STD FIELD INLET TYPE 2 (INVERTED GRATED LID) 900x600 WITH INVERTED GRATED LID	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S	STD MANHOLE 1200mm DIA	HEADWALL
PIPE SIZE (mm)	375	375	375	375	375	450	450	525	525	825	
PIPE CLASS	3	3	3	3	3	3	3	3	3	3	
PIPE GRADE (%)	6.75%	2.40%	2.09%	1.56%	1.15%	2.41%	2.49%	2.54%	1.84%	0.52%	
PIPE SLOPE (1 in X)	15.15	40.94	48.98	67.08	96.84	41.92	40.30	40.74	47.16	333.37	
FULL PIPE VELOCITY (m/s)	0.19	0.29	0.64	1.37	1.56	1.96	2.18	1.99	2.30	1.29	
PART FULL VELOCITY (m/s)	2.07	1.66	1.95	2.10	1.84	3.00	3.12	3.30	3.21	1.66	
DATUM RL	25.0										
H.G.L IN PIPE & W.S.E IN STRUCTURE	41.083	41.071	40.213	40.175	40.166	39.500	39.504	39.448	39.169	39.183	39.035
PIPE FLOW (Cumecs)	0.021	0.032	0.071	0.151	0.173	0.311	0.347	0.431	0.499	0.690	
PIPE CAPACITY AT GRADE (Cumecs)	0.451	0.274	0.251	0.214	0.178	0.441	0.449	0.674	0.627	0.787	
DEPTH TO INVERT	1.146	1.130	1.453	1.380	1.290	1.450	1.520	1.488	1.530	1.588	
INVERT LEVEL OF DRAIN	40.969	40.970	40.170	40.156	40.038	39.300	39.280	39.280	38.370	38.370	37.370
DESIGN SURFACE LEVEL	42.100	41.500	40.750	39.740	39.140	38.820	38.240	37.760	36.390	36.040	35.410
SETOUT COORDINATES	E 5823.988	E 5836.266	E 5866.364	E 5910.830	E 5942.900	E 5982.994	E 6005.987	E 6021.368	E 6052.810	E 6061.433	E 6071.870
RUNNING CHAINAGE	0.000	11.856	30.420	43.950	88.571	162.869	190.249	207.259	282.466	278.368	288.836

LINE 1

STRUCTURE NAME	G13/2	G12/2	G11/2	G10/2	G9/2	G8/2	1/1
STRUCTURE DESCRIPTION	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S	STD TYPE A GULLY (SAG) LIL: 2.4m LINTEL: TYPE S OVER 1200 DIA MANHOLE	STD MANHOLE 1200mm DIA
PIPE SIZE (mm)	375	375	375	375	375	450	
PIPE CLASS	3	3	3	3	3	3	
PIPE GRADE (%)	0.86%	1.71%	0.88%	1.95%	1.61%	0.31%	
PIPE SLOPE (1 in X)	96.57	64.36	100.50	51.14	62.20	333.33	
FULL PIPE VELOCITY (m/s)	0.35	0.78	0.94	0.92	1.39	0.90	
PART FULL VELOCITY (m/s)	1.29	1.86	1.65	2.11	2.21	1.23	
DATUM RL	23.0						
H.G.L IN PIPE & W.S.E IN STRUCTURE	37.644	37.584	37.601	37.497	37.265	37.281	37.159
PIPE FLOW (Cumecs)	0.038	0.086	0.104	0.101	0.153	0.195	
PIPE CAPACITY AT GRADE (Cumecs)	0.178	0.219	0.175	0.245	0.228	0.156	
DEPTH TO INVERT	1.290	1.320	1.278	1.330	1.370	1.380	
INVERT LEVEL OF DRAIN	37.443	37.460	37.302	37.282	36.930	36.942	36.820
DESIGN SURFACE LEVEL	38.780	38.620	38.260	37.630	36.563	36.550	35.410
SETOUT COORDINATES	E 5933.050	E 5927.334	E 5944.701	E 5970.152	E 6003.757	E 6045.106	E 6061.433
RUNNING CHAINAGE	0.000	12.775	20.995	33.135	41.448	46.026	46.790

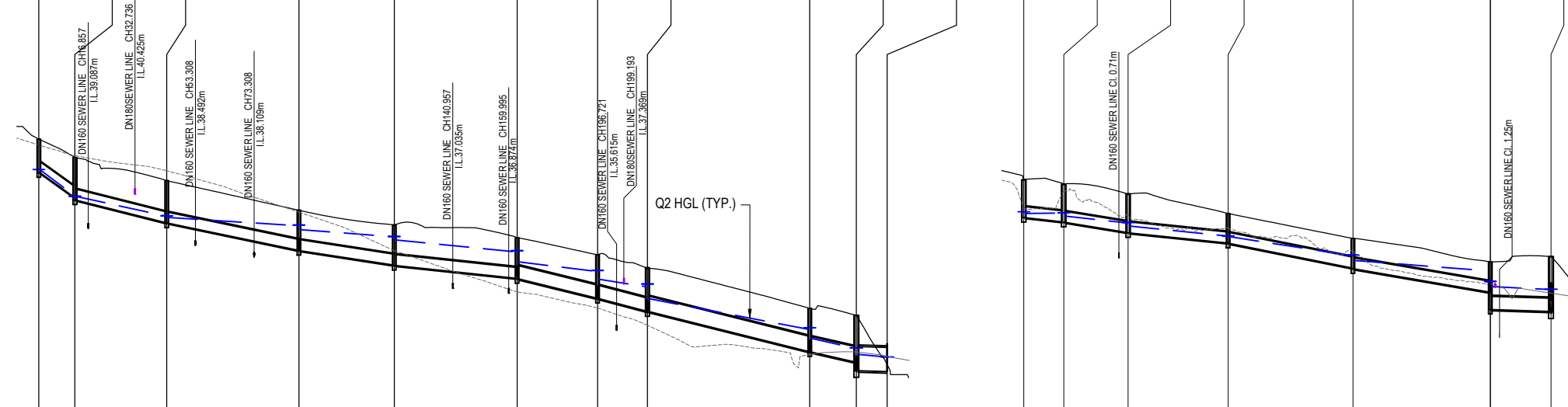
LINE 2

STRUCTURE NAME	LK1/3	G14/3	G1/1
STRUCTURE DESCRIPTION	CAPPED PIPE CONNECTION	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S
PIPE SIZE (mm)	300	375	
PIPE CLASS	3	3	
PIPE GRADE (%)	3.68%	0.67%	
PIPE SLOPE (1 in X)	91.35	164.35	
FULL PIPE VELOCITY (m/s)	0.90	0.68	
PART FULL VELOCITY (m/s)	1.51	1.27	
DATUM RL	23.0		
H.G.L IN PIPE & W.S.E IN STRUCTURE	36.045	35.924	35.903
PIPE FLOW (Cumecs)	# 0.064	0.075	
PIPE CAPACITY AT GRADE (Cumecs)	0.101	0.137	
DEPTH TO INVERT	1.588	1.420	1.520
INVERT LEVEL OF DRAIN	35.045	34.920	34.916
DESIGN SURFACE LEVEL	36.470	36.440	36.390
SETOUT COORDINATES	E 6041.603	E 6045.592	E 6062.810
RUNNING CHAINAGE	-4.750	3.534	7.485

LINE 3

**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.

**NOTE:**  
 PIPE FLOWS ARE REPRESENTING Q10 EVENT #



**AS-CONSTRUCTED CERTIFICATION**  
 Signature: \_\_\_\_\_ Date: 24/03/23  
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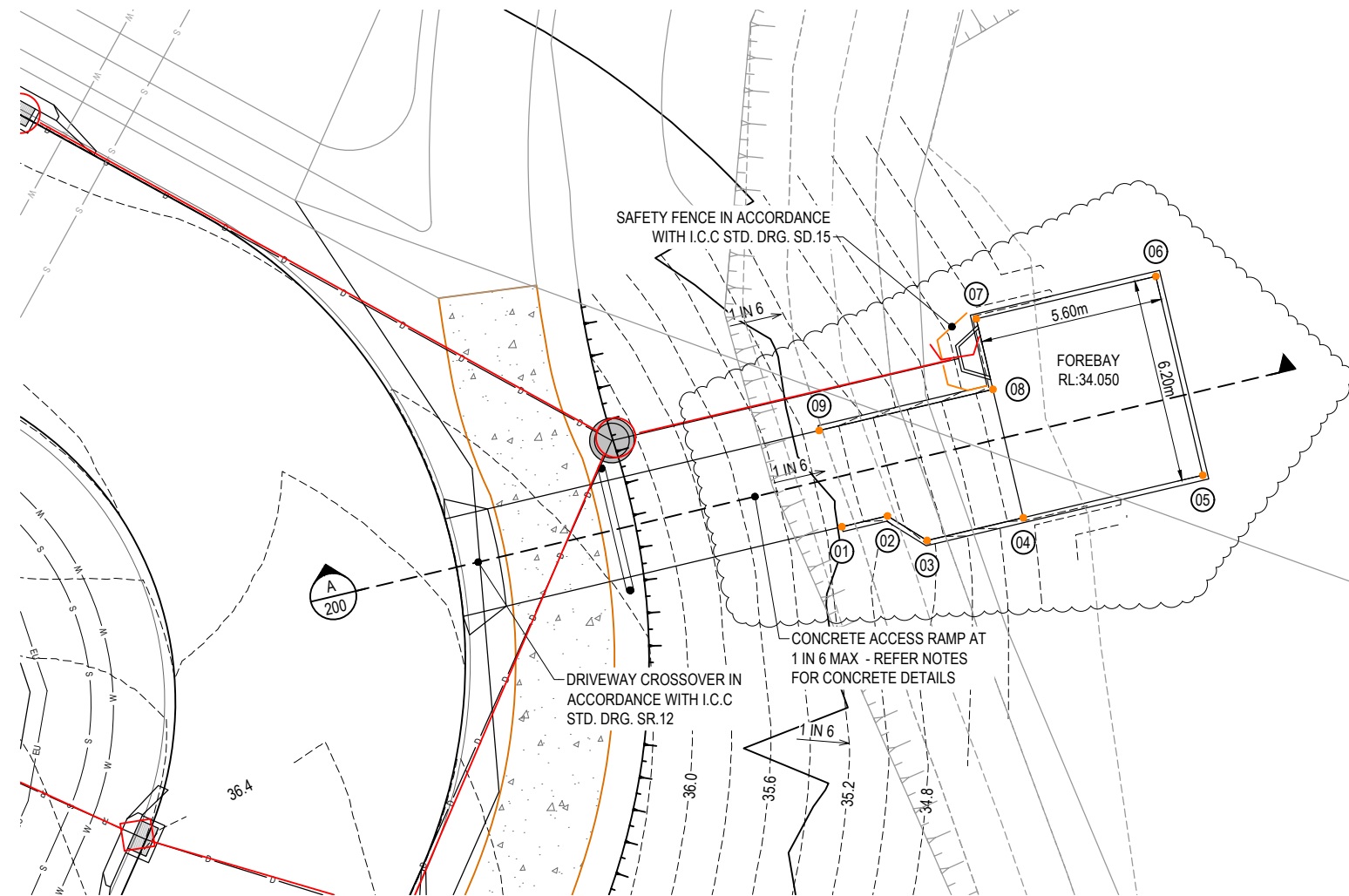




LOCATION	DESIGNARI	STRUCTURE No.	DRAIN SECTION	CONTRIBUTING CATCHMENT	SUB-CATCHMENT RUN-OFF										DRAIN DESIGN										HEAD LOSSES										PART FULL	DESIGN LEVELS											
					Tc	I	A	CA	Qc	Qa	Qb	Qc	Qd	Qe	Qf	Qg	Qh	Qi	Qj	Qk	Ql	Qm	Qn	Qo	Qp	Qq	Qr	Qs	Qt	Qu	Qv	Qw	Qx	Qy		Qz											
2	IN 6/8	A			10	96	0.037	0.026	7	8	145				SFZ 600x900				10.96	93	0.27	78	78	13.236	0.51	300	PVC	69	0.97	T1	0.062	0.89	0.042	0.7	0.043	0.65	0.086	0.3	1.1	41.125	41.058	41.485	41.399	41.528	41.95	0.422	IN 6/8
100	IN 6/8	A			10	232	0.037	0.034	22	8	145				SFZ 600x900				10.96	223	0.354	71	71	13.236	0.51	300	PVC	69	0.97	T1	0.052	0.73	0.038	0.74	0.038	0.54	0.071	0.256	1.11	41.125	41.058	41.437	41.366	41.475	41.95	0.475	IN 6/8
2	IN 5/8	A			10	96	0.051	0.036	10	11	84				SFZ 600x900				11.07	92	0.306	88	88	19.47	2.05	300	PVC	138	1.56	T3/T6	0.079	1.76	0.139	2.17	0.171	1.88	0.391	0.173	2.07	41.09	40.631	41.261	40.894	41.431	41.95	0.519	IN 5/8
100	IN 5/8	A			10	232	0.051	0.047	30	11	84				SFZ 600x900				11.07	223	0.4	80	80	19.47	2.05	300	PVC	138	1.56	T3/T6	0.065	1.78	0.116	2.22	0.144	1.94	0.395	0.163	2.09	41.09	40.631	41.25	40.873	41.395	41.95	0.555	IN 5/8
2	IN 4/8	A			10	96	0.03	0.021	6	6	145				SFZ 600x900				11.23	92	0.327	93	93	2	1.05	300	PVC	99	1.4	T1	0.089	0.51	0.045		0.045	1.36	0.021	0.231	1.99	40.611	40.59	40.849	40.821	40.894	41.55	0.656	IN 4/8
100	IN 4/8	A			10	232	0.03	0.027	18	6	145				SFZ 600x900				11.23	221	0.428	83	83	2	1.05	300	PVC	99	1.4	T1	0.07	0.53	0.037		0.037	1.78	0.019	0.21	1.57	40.611	40.59	40.836	40.8	40.873	41.55	0.677	IN 4/8
2	IN 3/8	A			10	96	0.037	0.026	7	8	145				SFZ 600x900				11.25	92	0.353	101	101	31.275	1.99	300	PVC	136	1.93	T10	0.104	2.05	0.213	2.51	0.26	2.04	0.618	0.192	2.11	38.709	38.088	38.955	38.316	39.215	41.55	2.335	IN 3/8
100	IN 3/8	A			10	232	0.037	0.034	22	8	145				SFZ 600x900				11.25	221	0.462	90	90	31.275	1.99	300	PVC	136	1.93	T10	0.083	2.07	0.171	2.54	0.21	0.86	0.27	0.178	2.06	38.709	38.088	39.037	38.766	39.247	41.55	2.309	IN 3/8
2	1/8	A													RW PIT 550 DIA				11.51	91	0.353	100	100	13.976	4.14	375	PVC	357	3.23	T1/T3	0.041	0.26	0.011	0.37	0.015	0.19	0.044	0.135	2.77	38.013	37.434	38.306	38.279	38.321	39.313	0.992	1/8
100	1/8	A													RW PIT 550 DIA				11.51	219	0.462	86	86	13.976	4.14	375	PVC	357	3.23	T1/T3	0.031	0.18	0.006	0.24	0.008	0.24	0.034	0.126	2.66	38.013	37.434	38.761	38.727	38.768	39.313	0.545	1/8
2	G4/1				10	96	0.221	0.154	41	45	356	1.916	0.07	1.76	3	AL2D	20.33X	45		GS/1																						38.317	38.761	0.444	G4/1		
100	G4/1				10	232	0.221	0.202	130	143	356	3.011	0.101	1.76	3	AL2D	20.33X	66	75	GS/1																							38.749	38.761	0.012	G4/1	

**AS-CONSTRUCTED CERTIFICATION**  
Signature: \_\_\_\_\_ Date: 24/03/23  
**DANIEL COLLINS** RPEQ No. 18631  
For and on behalf of Colliers International engineering & design Pty Ltd

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE	PROJECT No.	DRAWING No.	REVISION
A	17.06.22	CL	AK	ISSUED FOR CONSTRUCTION		AS CONSTRUCTED		CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 10	STORMWATER DRAINAGE CALCULATIONS TABLE SHEET 2 OF 2	18-0176	119	B
B	24.03.23	CL	AK	AS CONSTRUCTED									
					DESIGN	APPROVED		ASSOCIATED CONSULTANT					
						DANIEL COLLINS	RPEQ 18631	SAUNDERS HAVILL GROUP	COOLINGWOOD DRIVE, COOLINGWOOD PARK				
						FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD							



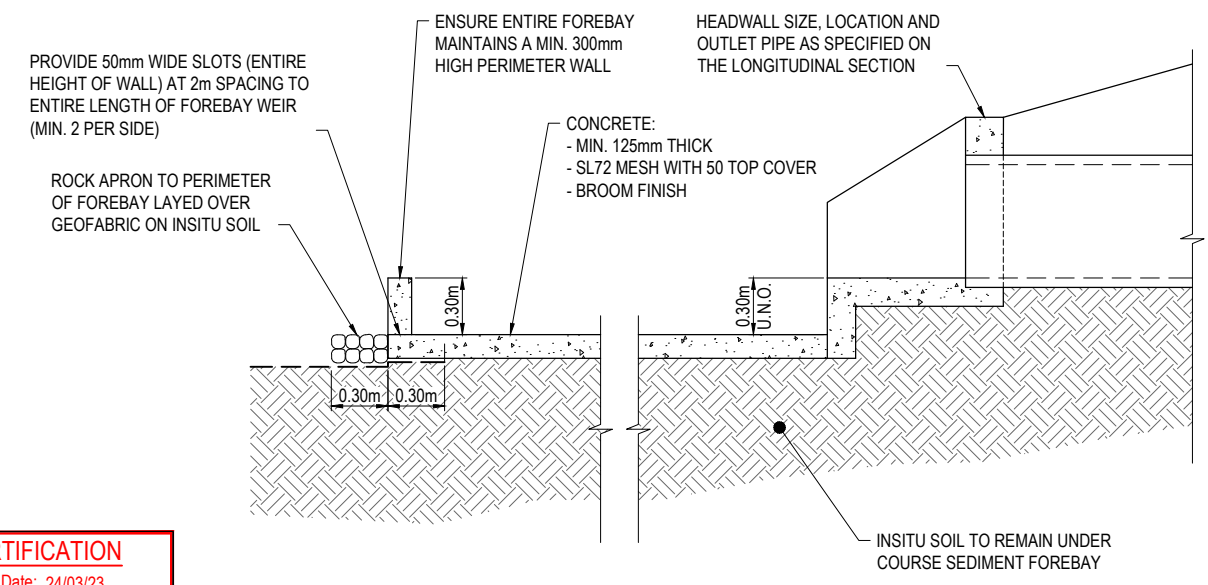
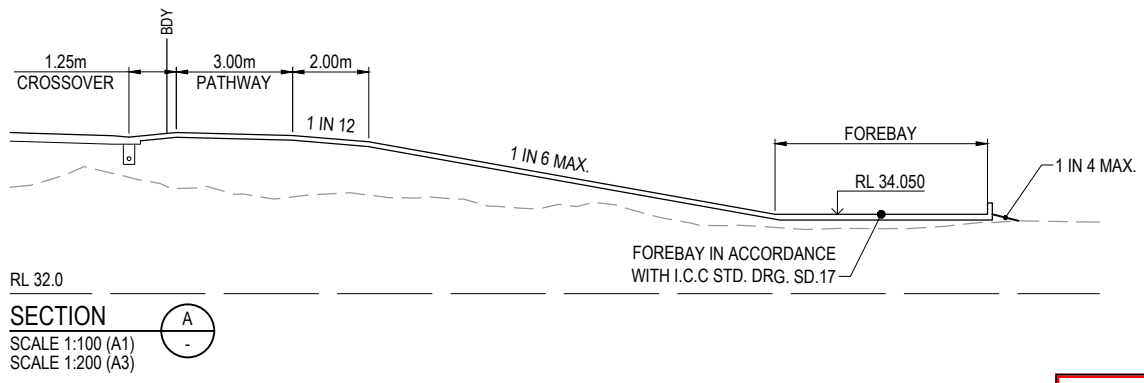
**FOREBAY SETOUT**

NUMBER	EASTING	NORTHING
01	6067.928	3400.024
02	6069.346	3400.132
03	6070.420	3399.212
04	6073.411	3399.441
05	6078.994	3399.869
06	6078.520	3406.051
07	6072.937	3405.623
08	6073.105	3403.429
09	6067.699	3403.015

- 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

**NOTE:**  
THE BASIN DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT'S DRAWINGS AND DOCUMENTATION, SPECIFICALLY RELATING TO RETAINING WALLS, BARRIERS, PLANTING AND VEGETATION

- NOTE:**
- FOR DESIGN AND CONSTRUCTION NOTES REFER TO I.C.C. STANDARD DRAWING SD.15, SD.16 AND SD.17.
  - DRAWINGS TO BE READ IN CONJUNCTION WITH SITE BASED STORMWATER MANAGEMENT PLAN AND LANDSCAPE ARCHITECT'S PLANS



**SEDIMENT FOREBAY DETAIL**  
SCALE 1:20 (A1) 1:40 (A3)

**AS-CONSTRUCTED CERTIFICATION**  
Signature: Date: 24/03/23  
DANIEL COLLINS RPEQ No. 18631  
For and on behalf of Colliers International engineering & design pty ltd

<b>REV</b>	<b>DATE</b>	<b>DESIGN</b>	<b>DRAWN</b>	<b>REVISION DETAILS</b>	<b>DRAWN</b>	<b>STATUS</b>
A	17.06.22	CL	AK	ISSUED FOR CONSTRUCTION		<b>AS CONSTRUCTED</b>
B	19.09.22	CL	AK	FOREBAY SETOUT UPDATED		
C	24.03.23	CL	AK	AS CONSTRUCTED		
				<b>DESIGN</b>	<b>APPROVED</b>	
					DANIEL COLLINS	RPEQ 18631
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD						

**CLIENT**

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

ASSOCIATED CONSULTANT  
SAUNDERS HAVILL GROUP  
PH: 1300 123 744

**PROJECT NAME**

**WOODLINKS VILLAGE - STAGE 10**

COOLINGWOOD DRIVE,  
COOLINGWOOD PARK

**DRAWING TITLE**

**SEDIMENT FOREBAY LAYOUT  
PLAN AND DETAILS**

PROJECT No. 18-0176  
DRAWING No. 121  
REVISION C





STRUCTURE / BEND / END NAME
STRUCTURE TYPE
STRUCTURE LID TYPE
STRUCTURE DROP TYPE
JUNCTION LINE
DEPTH TO HC (INSIDE LOT) IL
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  
 J = JUNCTION  
 MH DROP TYPES:  
 AS PER SEQ STD DRG SEQ-SEW-1303-1  
 MS DROP TYPES:  
 MS-A = 20mm DROP THROUGH BULB  
 MS-B = >75mm DROP INTO RISER  
 LID TYPES  
 B = NON-TRAFFICABLE  
 D = TRAFFICABLE  
 D(BD) = TRAFFICABLE WITH BOLT DOWN

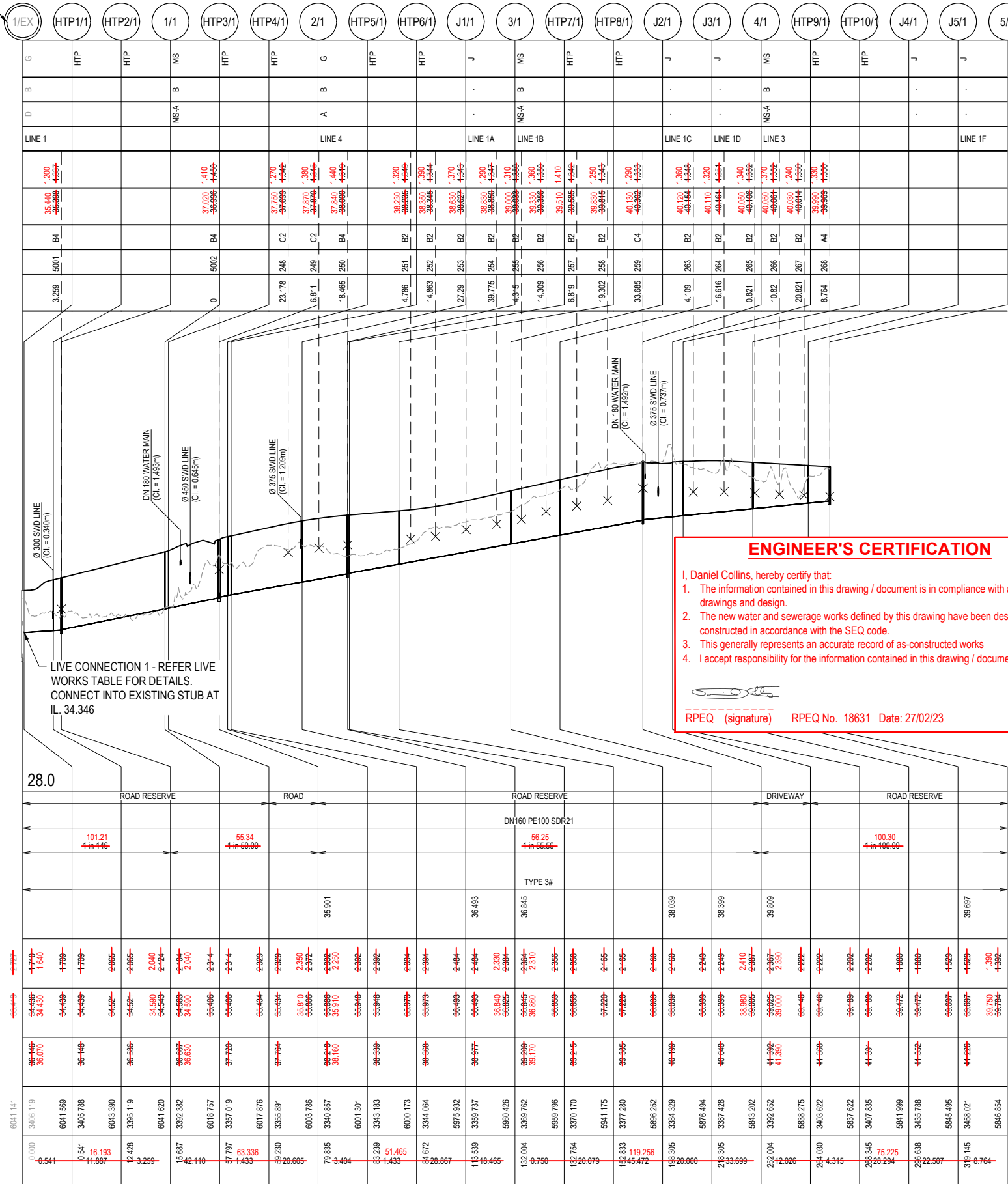
NOTE: PE LINING OF MANHOLES:  
 MAINTENANCE HOLES ≥ 1500Ø IN DIA OR ≥ 4.0m IN DEPTH,  
 REQUIRE PE LINED PROTECTIVE COATING

# EMBEDMENT NOTE:  
 EMBEDMENT TYPE IS PRELIMINARY ONLY AND IS TO BE  
 CONFIRMED AFTER GEOTECHNICAL INVESTIGATION AND  
 ADJUSTED IF NECESSARY IN ACCORDANCE WITH SEQ STD  
 DRGS SEQ-SEW-1201-1 TO 1205-1

\* 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 DETAIL ON PEAK URBAN STD DRG S-100.

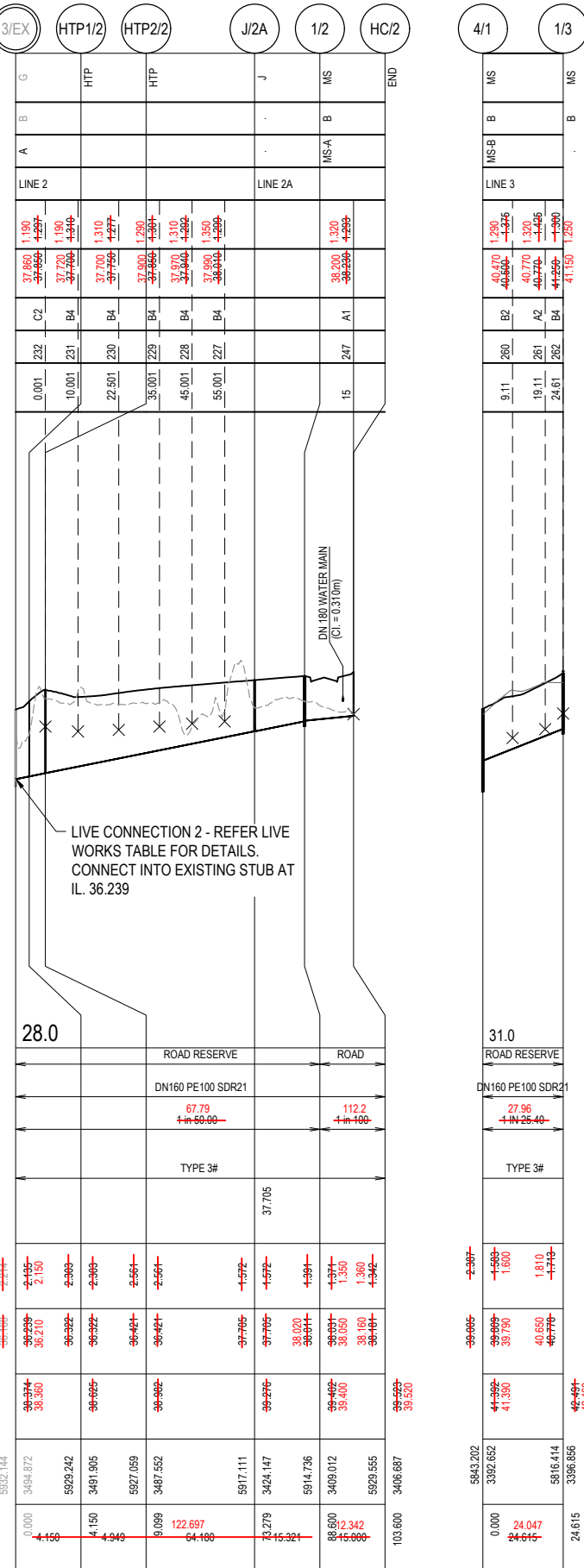
LAND USE
DIAMETER
GRADE
EMBEDMENT
JUNCTION INVERT LEVEL
DEPTH TO INVERT
SEWER INVERT LEVEL
DESIGN SURFACE LEVEL
SETOUT
RUNNING CHAINAGE

EXISTING MH ID  
MH571753



**ENGINEER'S CERTIFICATION**  
 I, Daniel Collins, 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.  
 RPEQ (signature) RPEQ No. 18631 Date: 27/02/23

EXISTING MH ID  
MH571751



URBAN UTILITIES REF. NUMBER : 18-PNT-37795

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	17.06.22	CL	AK	ISSUED FOR CONSTRUCTION
B	27.02.23	CL	AK	AS CONSTRUCTED

DRAWN	STATUS	
DANIEL COLLINS	AS CONSTRUCTED	
DESIGN	APPROVED	DATE
DANIEL COLLINS	RPEQ 18631	

FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD



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

PROJECT NAME  
**WOODLINKS VILLAGE - STAGE 10**  
 COOLINGWOOD DRIVE,  
 COOLINGWOOD PARK

DRAWING TITLE  
**SEWERAGE LONGITUDINAL SECTIONS SHEET 1 OF 2**  
 PROJECT No. 18-0176  
 DRAWING No. 302  
 REVISION B



STRUCTURE / BEND / END NAME
STRUCTURE TYPE
STRUCTURE LID TYPE
STRUCTURE DROP TYPE
JUNCTION LINE
DEPTH TO HC (INSIDE LOT) IL
HC INVERT LEVEL
HC TYPE
HC LOT No
CH. FROM D/S STRUC / BEND

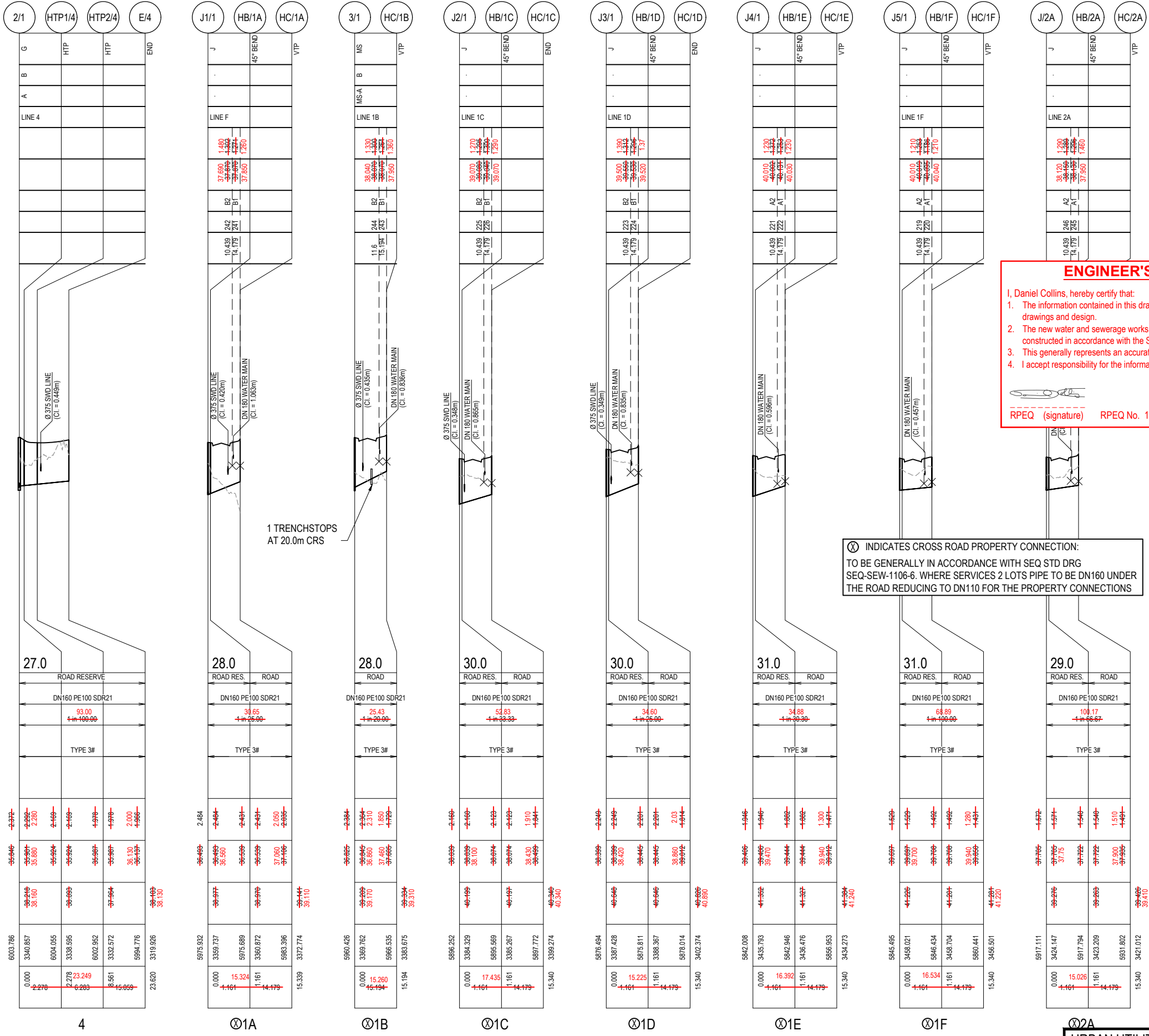
STRUCTURE TYPES  
 G = CONCRETE 0.900Ø  
 F = CONCRETE 1.200Ø  
 X = CONCRETE 1.200Ø  
 MS = PE 0.600Ø  
 J = JUNCTION  
 MH DROP TYPES:  
 AS PER SEQ STD DRG SEQ-SEW-1303-1  
 MS DROP TYPES:  
 MS-A = 20mm DROP THROUGH BULB  
 MS-B = >750mm DROP INTO RISER  
 LID TYPES  
 B = NON-TRAFFICABLE  
 D =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

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



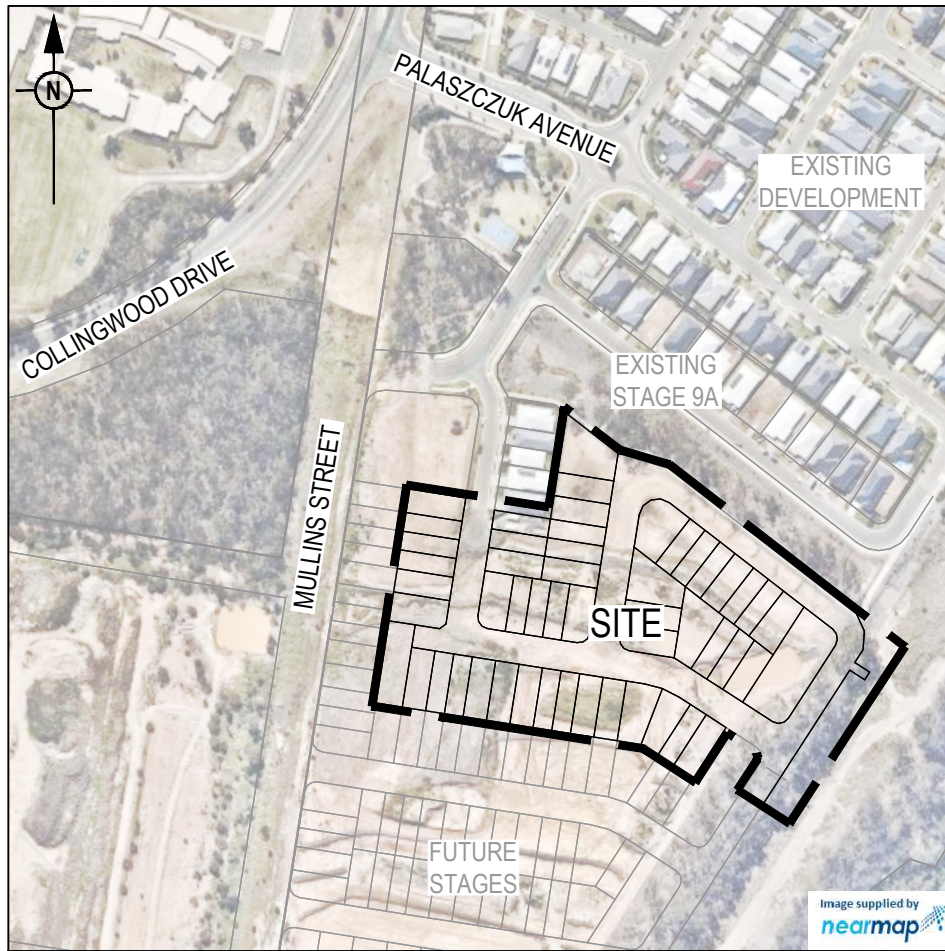
**ENGINEER'S CERTIFICATION**

I, Daniel Collins, 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.

RPEQ (signature) RPEQ No. 18631 Date: 27/02/23

<table border="1"> <tr><th>REV</th><th>DATE</th><th>DESIGN</th><th>DRAWN</th><th>ISSUED FOR CONSTRUCTION</th></tr> <tr><td>A</td><td>17.06.22</td><td>CL</td><td>AK</td><td>ISSUED FOR CONSTRUCTION</td></tr> <tr><td>B</td><td>27.02.23</td><td>CL</td><td>AK</td><td>AS CONSTRUCTED</td></tr> </table>	REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	A	17.06.22	CL	AK	ISSUED FOR CONSTRUCTION	B	27.02.23	CL	AK	AS CONSTRUCTED	<table border="1"> <tr><th>REVISION DETAILS</th><th>DRAWN</th><th>STATUS</th></tr> <tr><td></td><td></td><td><b>AS CONSTRUCTED</b></td></tr> </table>	REVISION DETAILS	DRAWN	STATUS			<b>AS CONSTRUCTED</b>		<table border="1"> <tr><th>SCALE</th><th>A1</th><th>A3</th></tr> <tr><td>1:1000</td><td>10</td><td>0 10 20 30 40 50</td></tr> <tr><td>1:2000</td><td></td><td>HORIZONTAL</td></tr> <tr><td>1:100</td><td>2</td><td>1 0 2 4</td></tr> <tr><td>1:200</td><td></td><td>VERTICAL</td></tr> </table>	SCALE	A1	A3	1:1000	10	0 10 20 30 40 50	1:2000		HORIZONTAL	1:100	2	1 0 2 4	1:200		VERTICAL	<table border="1"> <tr><th>CLIENT</th><th>PROJECT NAME</th><th>DRAWING TITLE</th></tr> <tr><td><b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b></td><td><b>WOODLINKS VILLAGE - STAGE 10</b></td><td><b>SEWERAGE LONGITUDINAL SECTIONS SHEET 2 OF 2</b></td></tr> </table>	CLIENT	PROJECT NAME	DRAWING TITLE	<b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b>	<b>WOODLINKS VILLAGE - STAGE 10</b>	<b>SEWERAGE LONGITUDINAL SECTIONS SHEET 2 OF 2</b>	<table border="1"> <tr><th>PROJECT No.</th><th>DRAWING No.</th><th>REVISION</th></tr> <tr><td>18-0176</td><td>303</td><td>B</td></tr> </table>	PROJECT No.	DRAWING No.	REVISION	18-0176	303	B
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18-0176	303	B																																																			



LOCALITY PLAN

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

WATER RETICULATION DRAWING INDEX

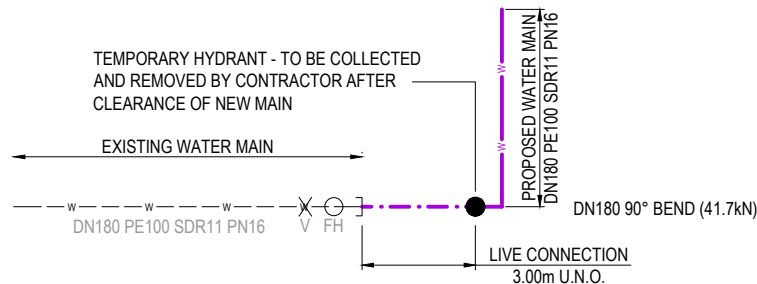
- 18-0176-304 WATER RETICULATION COVER PLAN
- 18-0176-305 WATER RETICULATION LAYOUT PLAN
- 18-0176-306 FIRE HYDRANT REACH LAYOUT PLAN

GENERAL NOTES:

- THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, PLANT AND EQUIPMENT TO CONSTRUCT THE WORKS AS DOCUMENTED AND STRICTLY IN ACCORDANCE WITH THE RELEVANT AUTHORITY STANDARDS, SPECIFICATIONS AND REQUIREMENTS.
- 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.
- 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 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.
- 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.

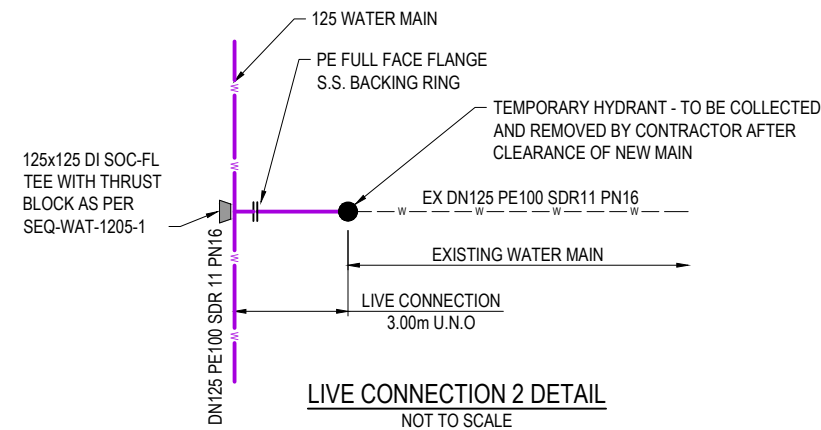
ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK COMMENCING, INCLUDING CLEARING

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



LIVE WORKS CONNECTION 1  
NOT TO SCALE

LIVE WORKS NOTES:  
1. ALL LIVE WORK SHALL BE UNDERTAKEN BY THE CONTRACTOR IN ACCORDANCE WITH A VALID NETWORK ACCESS PERMIT, UNDER THE SUPERVISION OF URBAN UTILITIES, AT THE DEVELOPER'S EXPENSE.  
2. PRE-CHLORINATED FITTINGS SHALL BE USED FOR ALL DRINKING WATER LIVE WORKS CONNECTIONS.



LIVE CONNECTION 2 DETAIL  
NOT TO SCALE

LIVE CONNECTIONS

CONNECTION 1				
STREET	ROAD 12			
LOCATION	CH80.000 RIGHT SIDE			
LENGTH	3.00m	TYPE OF MAIN	DN180 PE100	
DATE COMMENCED		DATE COMPLETED		
SIGNATURE				
CONNECTION 2				
STREET	ROAD 14			
LOCATION	CH87.500 LEFT SIDE			
LENGTH	3.00m	TYPE OF MAIN	DN125 PE100	
DATE COMMENCED		DATE COMPLETED		
SIGNATURE				

SERVICE DETAILS		
NO	SIZE	LOT NUMBERS
19	DN25PE	220-226,233-245,258-263 & 268
17	DN32PE	219,227-232,248-257,264-267

- NOTES:  
1. SERVICES AND METERS TO LOT 268 WILL CONNECT TO EXISTING WATER MAIN AND SHALL BE INSTALLED AS LIVE WORKS  
2. SERVICES TO BE PROVIDED FOR FUTURE LOTS 248 TO 250. METERS TO BE CONNECTED IN FUTURE WATER APPROVAL.

ASSET REGISTER - WATER RETICULATION					
ESTATE/STAGE	WOODLINKS VILLAGE STAGE 10				
SITE ADDRESS	COLLINGWOOD DRIVE				
URBAN UTILITIES REFERENCE No.	18-PNT-37795				
URBAN UTILITIES APPROVAL DATE	20.05.2020				
CLIENT	CANNBERRA ESTATES CONSORTIUM NO.36 PTY LIMITED				
DRAWING/PLAN No.	18-0176-304 TO 306				
MAINS	DIAMETER	MATERIAL		LENGTH	
		DESIGN	CONST	DESIGN	CONST
	DN63	PE100 PN16		-48-	
	DN125	PE100 PN16		-211-	209
DN180	PE100 PN16		-355-	394	
SERVICES	DIAMETER	MATERIAL		LENGTH	
		DESIGN	CONST	DESIGN	CONST
	DN25	PE100 PN16		-78-	78
	DN32	PE100 PN16		-36-	36
DN40	PE100 PN16		-144-	144	
METERS	DIAMETER	NUMBER			
		DESIGN	CONST		
	200	-51-	51		
250	-				
320	-				

WATER RETICULATION NOTES

- 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.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- THE DESIGN HAS BEEN UNDERTAKEN TO COMPLY WITH CURRENT SOUTH EAST QUEENSLAND WATER CODE AND URBAN UTILITIES STANDARDS.
- 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.
- ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH URBAN UTILITIES ACCEPTED PRODUCTS AND MATERIALS LIST.
- ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
- COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
- 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.
- PROVIDE BULKHEADS / TRENCH STOPS IN ACCORDANCE WITH SEQ WATER SUPPLY CODE TABLE 7.5 AND SEQ-WAT-1209-1 AND 1210-1.
- 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 AND 1207-1 AND WHERE OTHER PIPES CONNECT TO PE PIPE.
- INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES.
- CONSTRUCT FIRE HYDRANTS AND STOP VALVES TO SEQ-WAT-1301-1, 1302-1, 1303-2, 1305-1, 1306-1 AND 1409-1.
- 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.
- INSTALL ROAD AND PAVEMENT MARKERS TO SEQ-WAT-1107-1, 1107-2, 1300-1 AND 1300-2.
- 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.
- 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.
- 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 DI CL 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 DI CL/MSCL SHORT PIPE WITH PREFABRICATED THRUST FLANGE.
- 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.
- AC MAINS SHALL BE REPLACED COLLAR-COLLAR.
- 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.
- CONSTRUCT SMALL DIAMETER PROPERTY SERVICES TO SEQ-WAT-1107-1 AND 1107-3.
- CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
- 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.
- CONSTRUCT TEST POINTS TO SEQ-WAT-1410-1 AT THE ENDS OF ALL NEW MAINS AND WHERE REQUIRED FOR COMMISSIONING PURPOSES.
- WATER MAINS SHALL CROSS OVER OTHER SERVICES. IF NOT PRACTICABLE THEN AMEND DESIGN TO USE FULLY WELDED MSCL AND CONCRETE ENCASMENT. 1305-1, 1306-1 AND 1409-1.
- URBAN UTILITIES WATER METERS AND FIRE HYDRANTS MUST BE LOCATED 1.100m CLEAR OF ENERGEX PILLARS.

ENVIRONMENTAL CONDITIONS

VEGETATION PROTECTION

- TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- 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.
- 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.
- ANY TREE LOPPING REQUIRED SHOWN ON DRAWING.

SOIL

- TOPSOIL AND SUBSOIL SHALL BE STOCKPILED AND COVERED TO PREVENT EROSION.
- CARE SHALL BE TAKEN TO PREVENT INVOLVING PLACING APPROPRIATE SERVICES.

CREEK CROSSINGS

- SILTATION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- APPROPRIATE SEDIMENT CONTROLS SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- NO SOIL SHALL BE STOCKPILED WITHIN 10m OF A CREEK.

REHABILITATION

- PREDISTURBANCE SOIL PROFILES AND VEGETATION TO BE RECORDED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- PREDISTURBANCE VEGETATION TO BE RECORDED AND MAINTAINED THROUGHOUT CONSTRUCTION.

ENGINEER'S CERTIFICATION

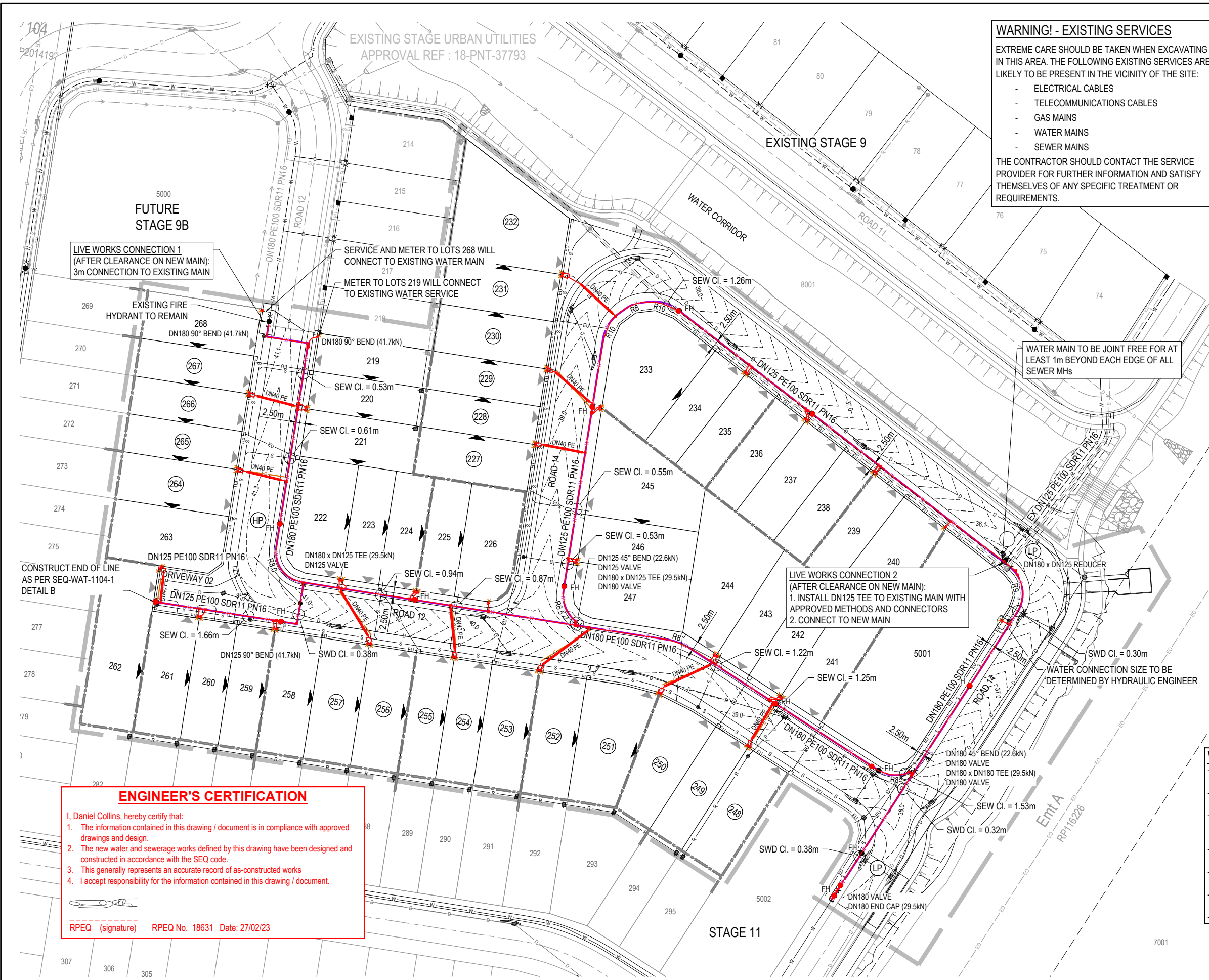
I, Daniel Collins, hereby certify that:  
1. The information contained in this drawing / document is in compliance with approved drawings and design.  
2. The new water and sewerage works defined by this drawing have been designed and constructed in accordance with the SEQ code.  
3. This generally represents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

*(Signature)*

RPEQ (signature) RPEQ No. 18631 Date: 27/02/23

URBAN UTILITIES REF. NUMBER : 18-PNT-37795

REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	17.06.22	CL	AK	AS CONSTRUCTED			AS CONSTRUCTED	1:2000 1:4000	CANNBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 10	WATER RETICULATION COVER PLAN
B	27.02.23	CL	AK	AS CONSTRUCTED					SAUNDERS HAVILL GROUP PH: 1300 123 744	COOLINGWOOD DRIVE, COOLINGWOOD PARK	PROJECT No. 18-0176 DRAWING No. 304 REVISION B



**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.

- LEGEND**
- PROPOSED AREA OF WORKS
  - PROPOSED WATER MAIN
  - EXISTING WATER MAIN
  - PROPOSED WATER CONDUIT
  - EXISTING WATER CONDUIT
  - PROPOSED ELECTRICAL CABLE U/G WITH ELECTRICAL PILLARS
  - PROPOSED ROAD CONTOUR
  - HIGH POINT / LOW POINT
  - INDICATIVE DRIVEWAY LOCATION
  - ZERO LOT BOUNDARY
  - PROPOSED STORMWATER DRAINAGE PIPE
  - EXISTING STORMWATER DRAINAGE PIPE
  - PROPOSED ROOFWATER DRAINAGE PIPE
  - EXISTING ROOFWATER DRAINAGE PIPE
  - PROPOSED SEWER MAIN
  - EXISTING SEWER MAIN
  - EXISTING ELECTRICAL CABLE U/G
  - EXISTING ELECTRICAL CABLE U/G
  - EXISTING ELECTRICAL CABLE O/H
  - EXISTING GAS MAIN

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

- AS CONSTRUCTED LEGEND**
- WATER MAIN
  - VALVE
  - HYDRANT
  - END CAP
  - BEND / TEE / TAPPING BAND
  - WATER METER

**WATER RETICULATION NOTES:**

- ALL WATER MAIN ALIGNMENTS ARE TO BE 2.50m AWAY FROM PROPERTY BOUNDARY, UNLESS NOTED OTHERWISE.
- WATER MAINS MUST CROSS OVER SERVICES WITH MINIMUM COVER PER SEQ CI. 7.2.4. AND CLEARANCES PER SEQ CODE TABLE 5.5.
- 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.
- CONSTRUCT TEST POINTS TO SEQ-WAT-1410-1 AT THE ENDS OF ALL NEW MAINS AND WHERE REQUIRED FOR COMMISSIONING PURPOSES.
- ALL WATER SERVICES BENEATH ROADS MUST BE PLACED WITHIN A Ø100 uPVC CONDUIT. REFER TO SEQ-WAT-1107-1.
- URBAN UTILITIES WATER METERS AND FIRE HYDRANTS MUST BE LOCATED 1.10m CLEAR OF ENERGEX PILLARS.
- ALL VALVES TO BE FULLY RESTRAINED IN ACCORDANCE WITH THE SEQ CODE.

**ENGINEER'S CERTIFICATION**

I, Daniel Collins, 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.

RPEQ (signature) RPEQ No. 18631 Date: 27/02/23

<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>ISSUED FOR CONSTRUCTION</th> </tr> <tr> <td>A</td> <td>17.06.22</td> <td>CL</td> <td>AK</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> <tr> <td>B</td> <td>27.02.23</td> <td>CL</td> <td>AK</td> <td>AS CONSTRUCTED</td> </tr> </table>		REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	A	17.06.22	CL	AK	ISSUED FOR CONSTRUCTION	B	27.02.23	CL	AK	AS CONSTRUCTED	<table border="1"> <tr> <th>REVISION DETAILS</th> <th>DRAWN</th> <th>STATUS</th> </tr> <tr> <td></td> <td></td> <td><b>AS CONSTRUCTED</b></td> </tr> </table>		REVISION DETAILS	DRAWN	STATUS			<b>AS CONSTRUCTED</b>			<table border="1"> <tr> <td>SCALE</td> <td>1:500</td> <td>1:1000</td> </tr> </table>		SCALE	1:500	1:1000	<table border="1"> <tr> <td>CLIENT</td> <td><b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b></td> </tr> <tr> <td>ASSOCIATED CONSULTANT</td> <td>SAUNDERS HAVILL GROUP PH: 1300 123 744</td> </tr> </table>		CLIENT	<b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b>	ASSOCIATED CONSULTANT	SAUNDERS HAVILL GROUP PH: 1300 123 744	<table border="1"> <tr> <td>PROJECT NAME</td> <td><b>WOODLINKS VILLAGE - STAGE 10</b></td> </tr> <tr> <td>COOLINGWOOD DRIVE, COOLINGWOOD PARK</td> <td></td> </tr> </table>		PROJECT NAME	<b>WOODLINKS VILLAGE - STAGE 10</b>	COOLINGWOOD DRIVE, COOLINGWOOD PARK		<table border="1"> <tr> <td>DRAWING TITLE</td> <td><b>WATER RETICULATION LAYOUT PLAN</b></td> </tr> <tr> <td>PROJECT No.</td> <td>18-0176</td> </tr> <tr> <td>DRAWING No.</td> <td>305</td> </tr> <tr> <td>REVISION</td> <td>B</td> </tr> </table>		DRAWING TITLE	<b>WATER RETICULATION LAYOUT PLAN</b>	PROJECT No.	18-0176	DRAWING No.	305	REVISION	B
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URBAN UTILITIES REF. NUMBER : 18-PNT-37795

# R Morgan

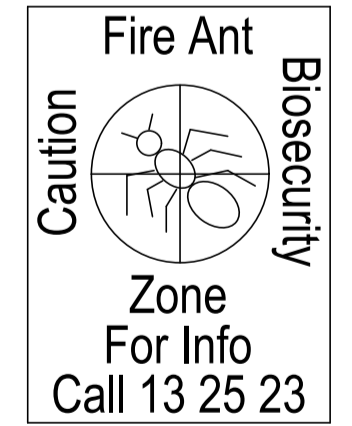
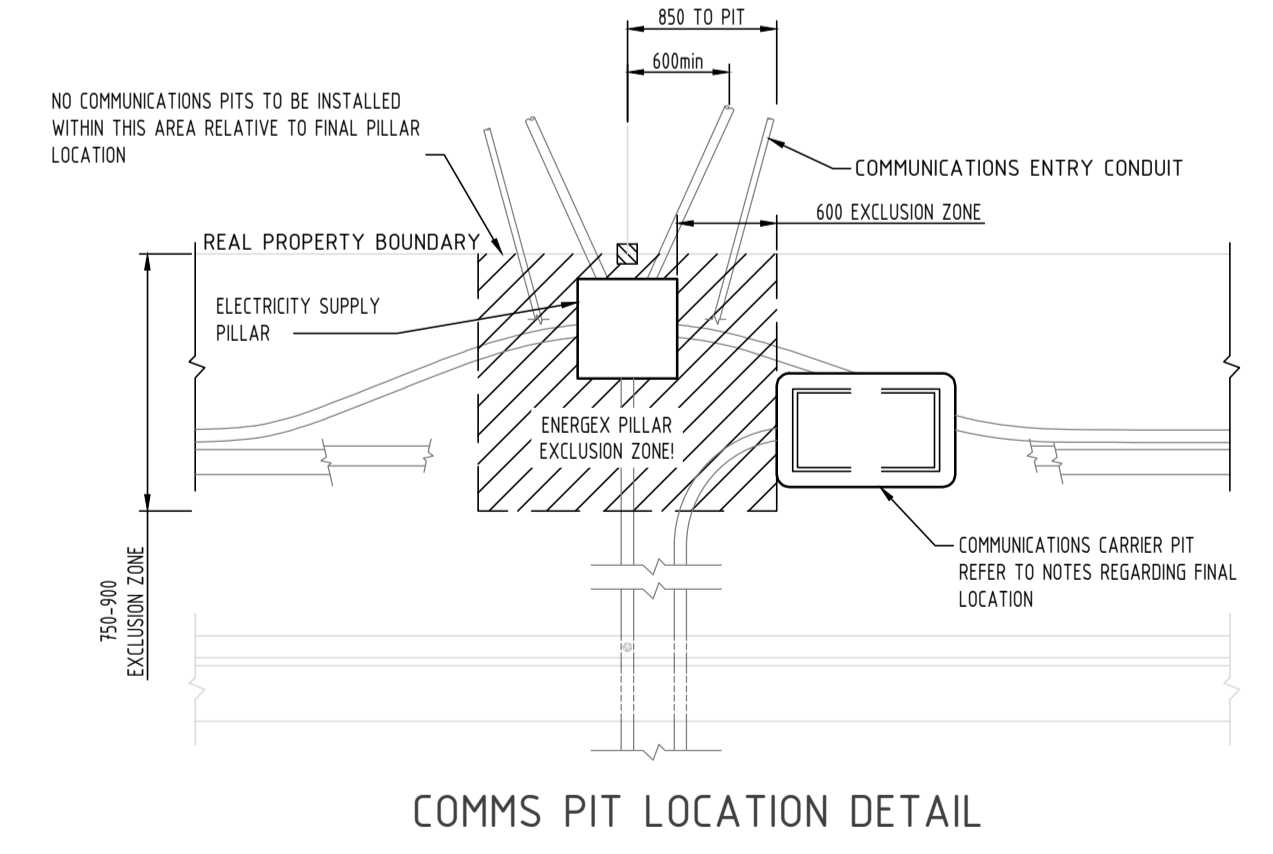
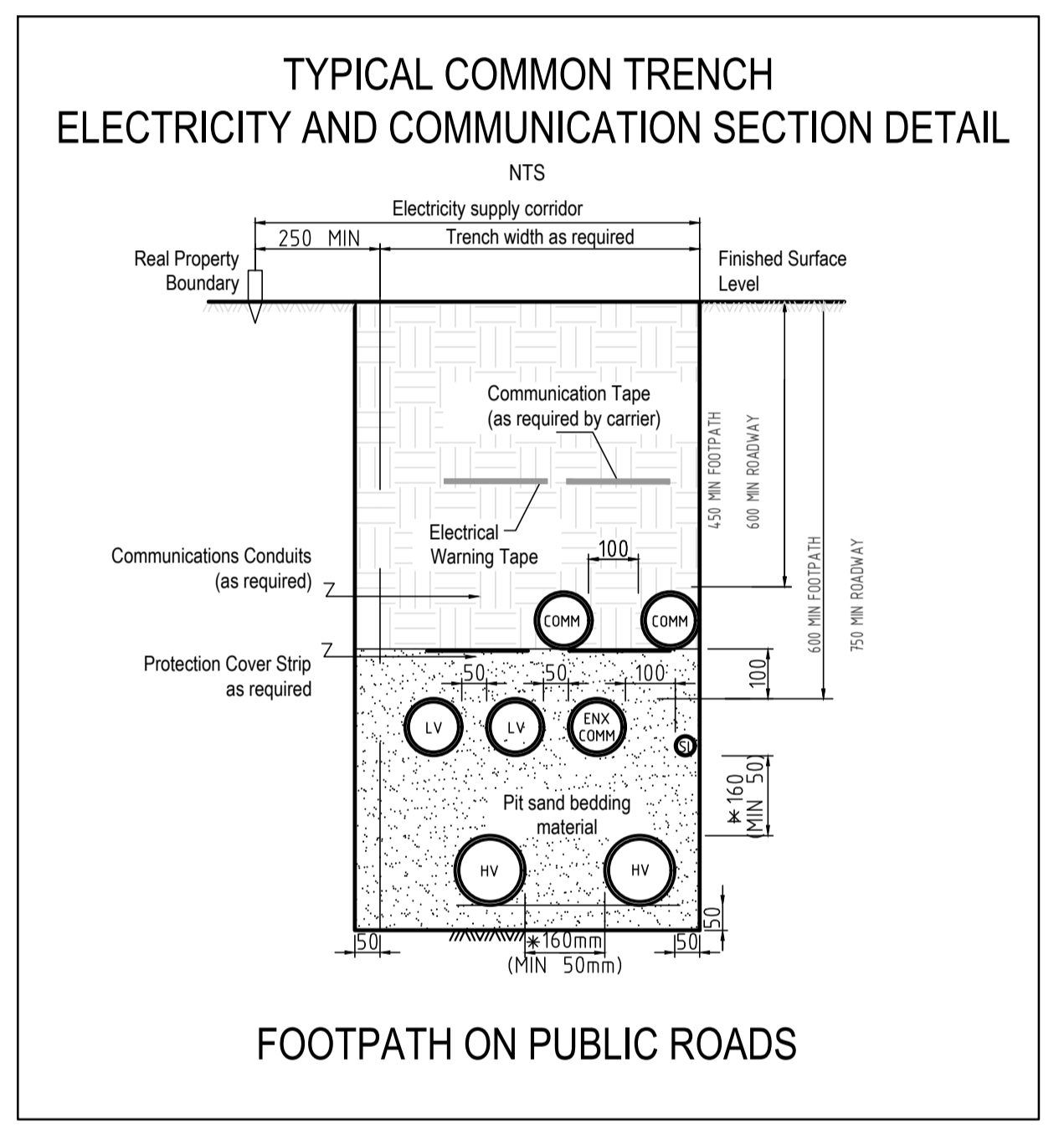
AS CON  
4 Nov 2022

## Sullivan Underground Services

- ### 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.

### LEGEND

	EXISTING TELSTRA UG CABLE
	EXISTING AERIAL CABLE
	TELSTRA PLANT IN SHARED UTILITY TRENCH
	PROPOSED NBN UNDERGROUND CONDUIT IN SHARED UTILITY TRENCH
	Service Drop Access Pit (650mmx280mmx565mm)
	Network Boundary/Local Network Pit (Single Lid) (700mmx450mmx850mm)
	Distribution/Local Network Connection Pit (1360mmx555mmx860mm)
	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



**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**

### BILL OF MATERIAL

NO OF LOTS: 51

PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	5	P100	20	607.6
5	16	P50	6	156
6	3	P20	51	371
8	0			
9	0			

TOTAL NUMBER OF PITS: 24  
 TOTAL NUMBER OF MANHOLES: 0  
 TOTAL NUMBER OF CONDUITS: 77  
 TOTAL LENGTH OF CONDUITS: 1134.6

Total rope 775.6m

### SDU Development Information

Development Name:  
246 COLLINGWOOD DR COLLINGWOOD PARK

Developer Company:  
CANNBERRA ESTATES CONSORTIUM NO 36 PTY LIMITED

Development Address:  
246 COLLINGWOOD DR COLLINGWOOD PARK

Authorised Rep:  
AMPFLO PTY LTD  
Phone: (07) 3372 9280  
E-Mail: [comms@ampflo.com.au](mailto:comms@ampflo.com.au)

nbn Reference Number: STG-W  
 Stage Number: 10  
 Design Revision: A

**PRELIMINARY ISSUE**  
(NOT FOR CONSTRUCTION)  
19/07/2022 10:16 AM

**TO BE BUILT IN CONJUNCTION WITH ELECTRICAL RETICULATION A201340**



REV	DATE	DRAFTER	DESCRIPTION	APPROVED
A	19.07.2022	AB	PRELIMINARY DESIGN	BK

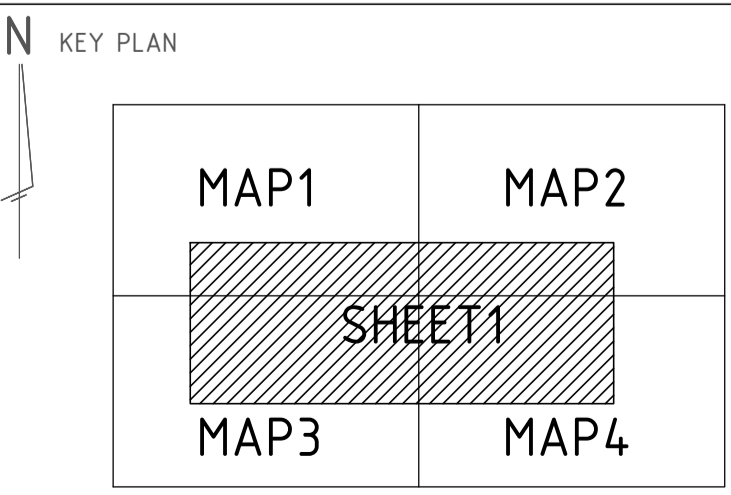
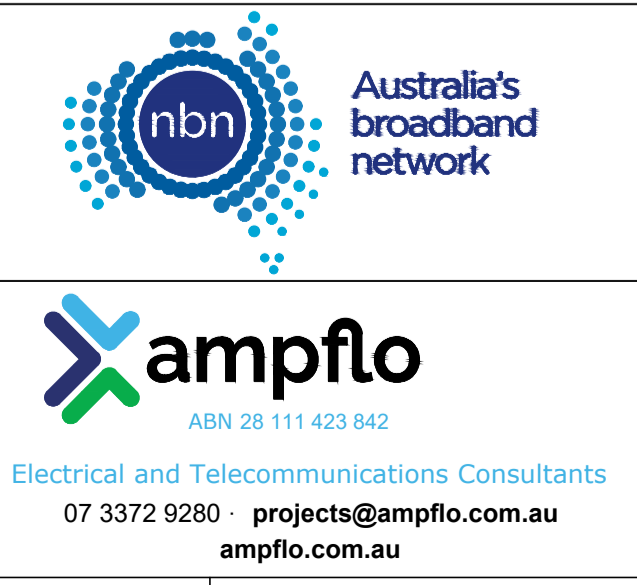
**STRICTLY CONFIDENTIAL**

NBNCO APPROVAL RECORD:

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

QUALITY RECORD:

NBNCO DISCLAIMER:  
THIS DOCUMENT HAS BEEN PREPARED SOLELY FOR THE USE OF NBNCO LIMITED (ABN 86 136 533 741) FOR USE IN MAINTAINING NBNCO FACILITIES. IT HAS NOT BEEN CREATED FOR ANY OTHER USE. IT SHOULD NOT BE SCALED TO LOCATE NBNCO ASSETS. NO WARRANTY IS GIVEN THAT THE INFORMATION IS ACCURATE OR COMPLETE.



DRAWING TITLE:  
STG-W  
246 COLLINGWOOD DRIVE COLLINGWOOD PARK  
WOODLINKS STAGE 10  
PIT & PIPE DESIGN

ENABLE#: 431050

STATE: QLD REGION: MGA 56

FSA: SAM: ADA:

PROJECT No: 201340

CADREF No: T201340

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