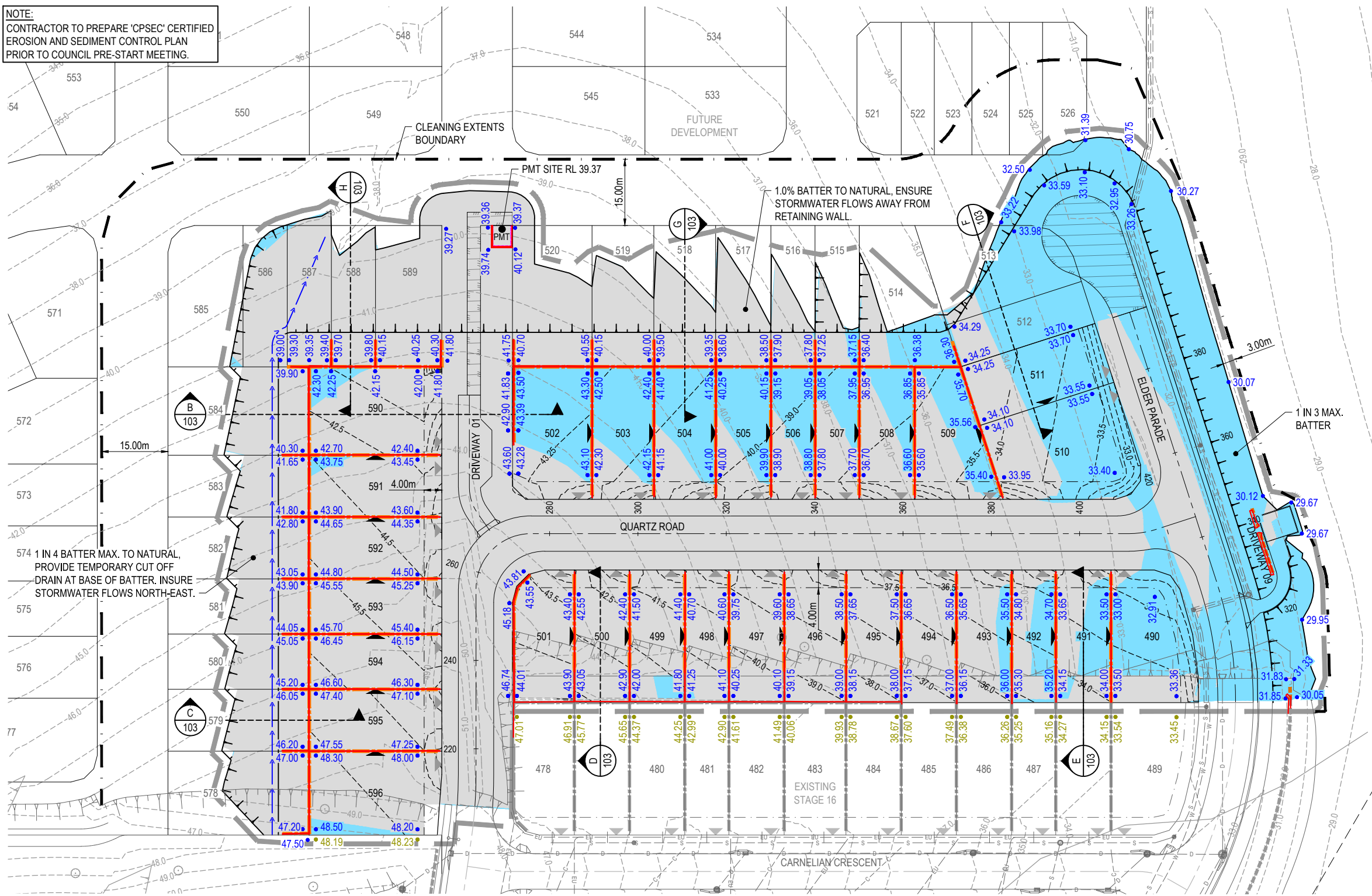


**NOTE:**  
CONTRACTOR TO PREPARE 'CPSEC' CERTIFIED EROSION AND SEDIMENT CONTROL PLAN PRIOR TO COUNCIL PRE-START MEETING.

**AS-CONSTRUCTED CERTIFICATION**  
Signature: *J. Thomas* Date: 21.12.20  
SCOTT THOMAS RPEQ No. 04618  
For and on behalf of Peakurban PTY LTD



**LEGEND**

	PROPOSED AREA OF WORKS
	PROPOSED CLEARING EXTENTS
	PROPOSED SURFACE CONTOUR
	EXISTING SURFACE CONTOUR
	PROPOSED EARTHWORKS PAD SETBACK LINE
	PROPOSED SLEEPER RETAINING WALL - REFER 20-0071-103 FOR VERTICAL SETOUT
	PROPOSED 'A GRADE SANDSTONE BOULDER WALL' (MAX. 0.90m HIGH)
	PROPOSED BLOCKWORK RETAINING WALL (IN ACCORDANCE WITH ENERGETX STANDARDS)
	EXISTING SLEEPER RETAINING WALL
	EXISTING SANDSTONE BOULDER WALL
	PROPOSED FINISHED SURFACE LEVEL (FSL) (INCLUDES TOPSOIL PLACEMENT)
	EXISTING SURFACE LEVEL (ESL)
	PROPOSED AREA OF CUT
	PROPOSED AREA OF FILL
	INDICATIVE DRIVEWAY LOCATIONS
	ZERO LOT BOUNDARY
	EXISTING STORMWATER DRAINAGE PIPE
	EXISTING SEWERAGE MAIN
	EXISTING WATER MAIN
	EXISTING WATER CONDUIT
	EXISTING ELECTRICAL CABLE U/G
	PROPOSED CUT-OFF DRAIN
	EXISTING DRAIN

**EARTHWORKS VOLUMES**

CUT:	18,400m <sup>3</sup>
FILL:	5,560m <sup>3</sup>
BAL:	12,840m <sup>3</sup> (SPOIL)

**AS CONSTRUCTED LEGEND**  
 AS CONSTRUCTED RETAINING WALL

**NOTE:**  
REFER TO SURVEYORS AS-CONSTRUCTED DRAWINGS PREPARED BY SAUNDERS HAVILL FOR EARTHWORKS LEVELS.

**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

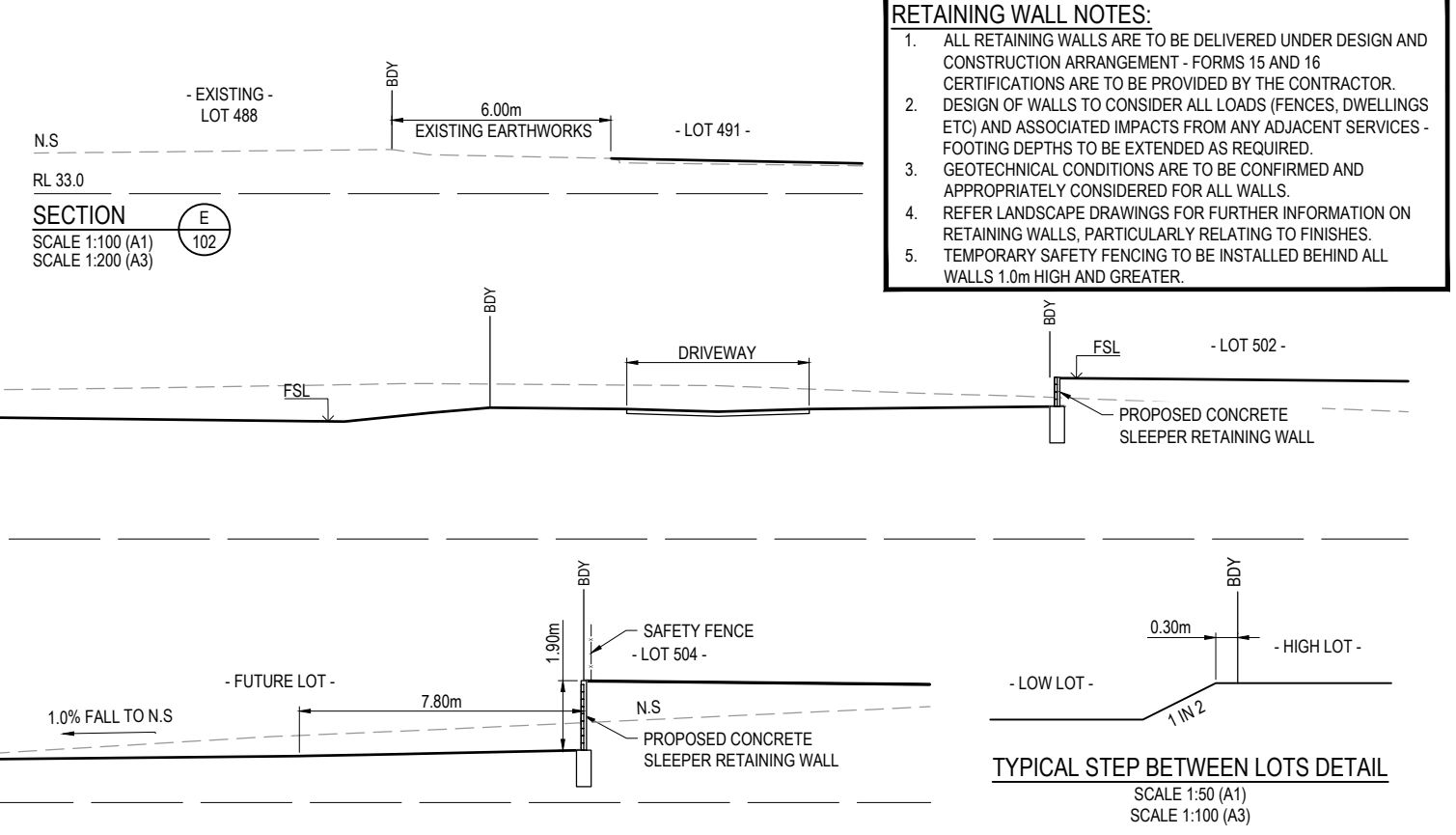
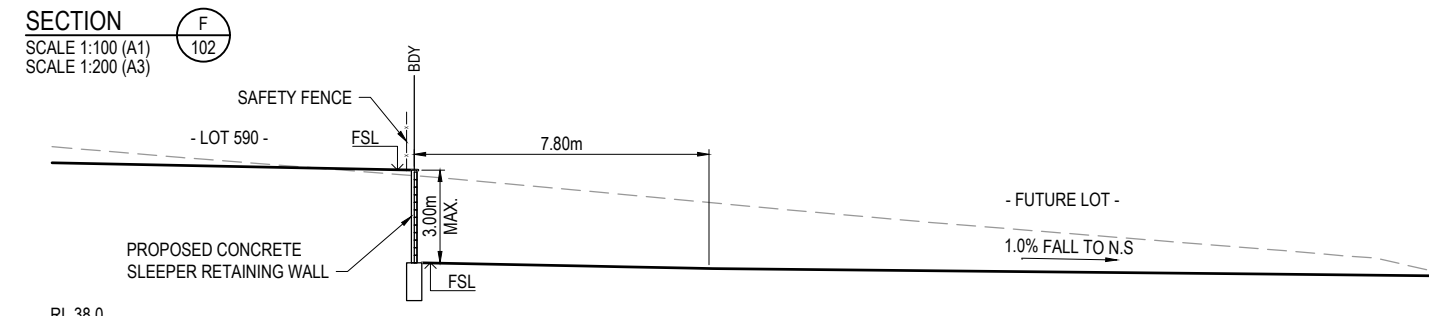
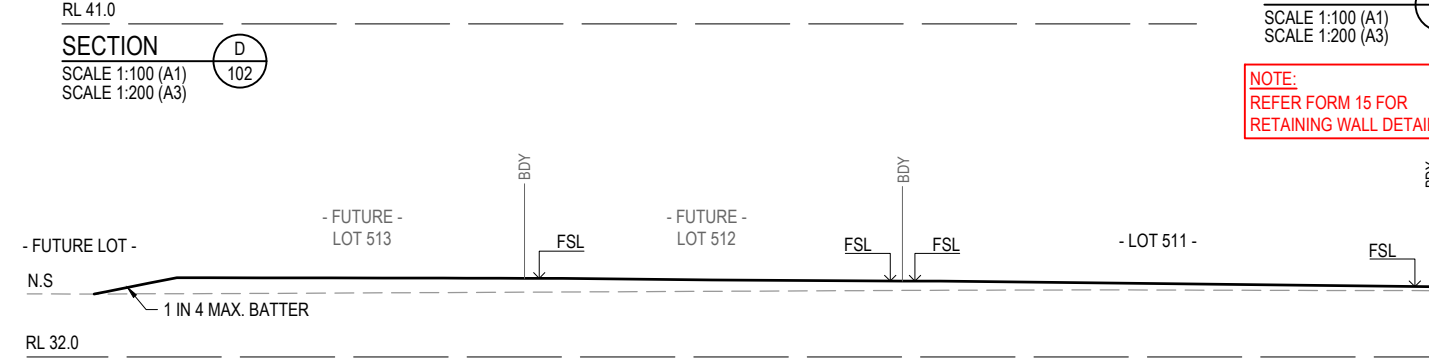
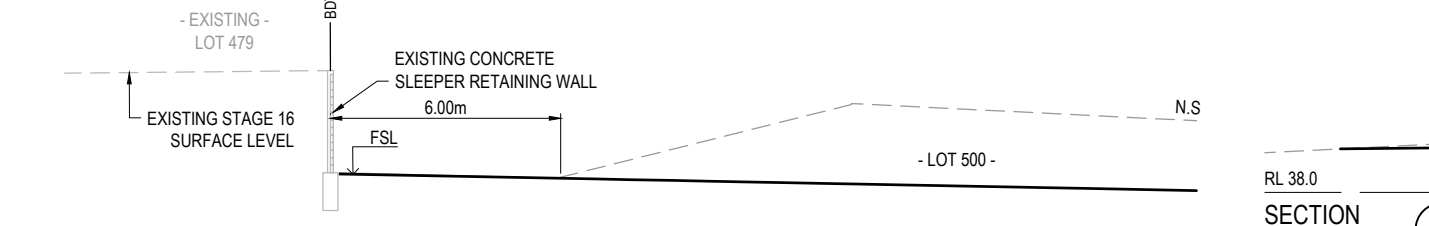
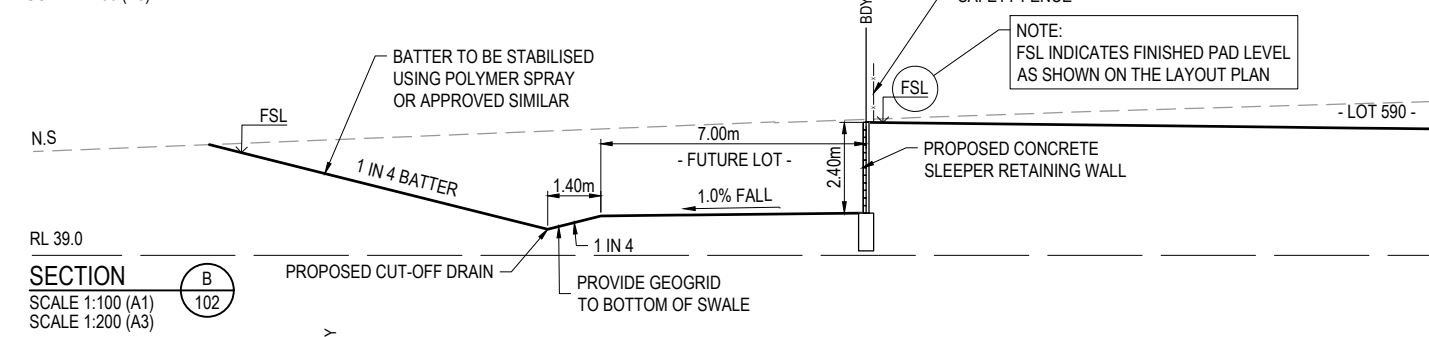
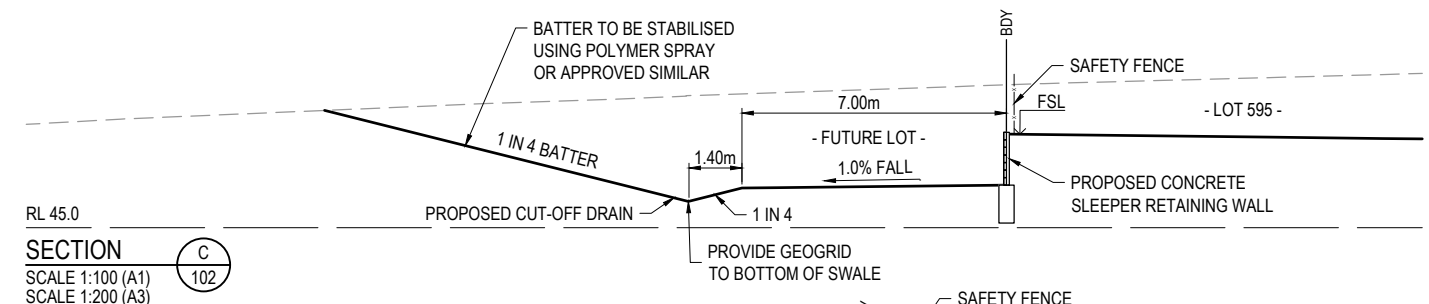
THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

**NOTE:**  
FRONT THREE FENCE BRACKETS ON INTERALLOTMENT SIDE RETAINING WALLS NOT TO BE INSTALLED - CONTRACTOR TO CONFIRM WITH SUPERINTENDANT PRIOR TO WALL CONSTRUCTION

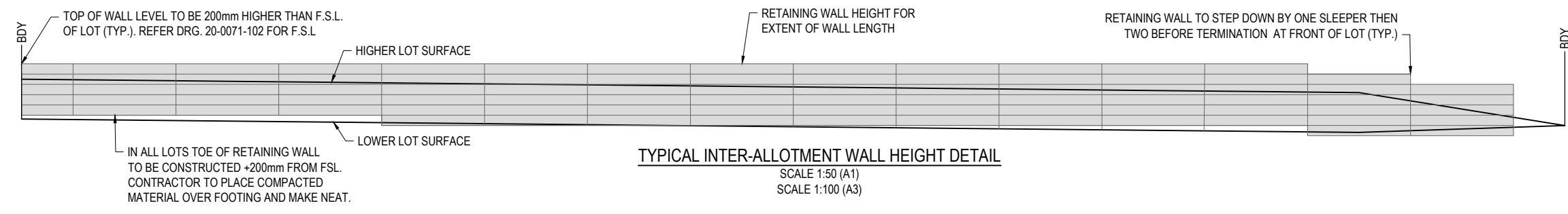
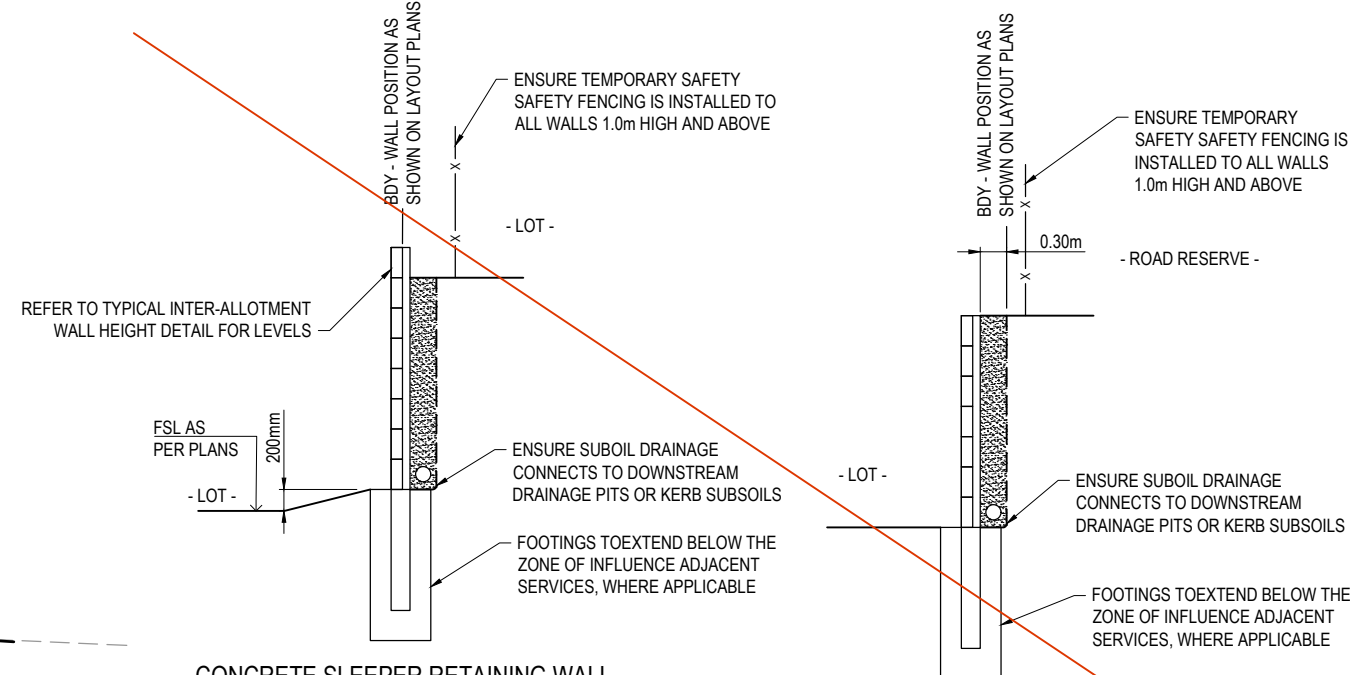
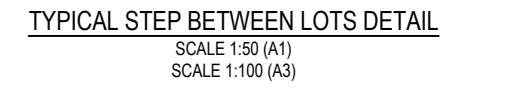
**NOTE:**  
1. VOLUMES SHOWN ARE SOLID VALUES ONLY. NO ALLOWANCES FOR BULKING, COMPACTION, ROAD BOXING, UNSUITABLE MATERIALS.

<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>17.08.20</td> <td>MG</td> <td>MG</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> <tr> <td>B</td> <td>26.08.20</td> <td>CL</td> <td>CL</td> <td>EARTHWORK SPOT LEVELS UPDATED</td> </tr> <tr> <td>C</td> <td>29.09.20</td> <td>LF</td> <td>SC</td> <td>SLEEPER RETAINING WALL REFERENCE</td> </tr> <tr> <td>D</td> <td>21.12.20</td> <td>TD</td> <td>SC</td> <td>AS CONSTRUCTED</td> </tr> </tbody> </table>	REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	A	17.08.20	MG	MG	ISSUED FOR CONSTRUCTION	B	26.08.20	CL	CL	EARTHWORK SPOT LEVELS UPDATED	C	29.09.20	LF	SC	SLEEPER RETAINING WALL REFERENCE	D	21.12.20	TD	SC	AS CONSTRUCTED	<table border="1"> <thead> <tr> <th>REVISION</th> <th>DETAILS</th> </tr> </thead> <tbody> <tr> <td>AS CONSTRUCTED</td> <td></td> </tr> </tbody> </table>	REVISION	DETAILS	AS CONSTRUCTED		<table border="1"> <tr> <td>DESIGN</td> <td>APPROVED</td> <td>SCOTT THOMAS</td> <td>RPEQ 04618</td> </tr> </table>	DESIGN	APPROVED	SCOTT THOMAS	RPEQ 04618	<p><b>AS CONSTRUCTED</b></p> <p><b>PEAKURBAN</b> DEVELOPMENT ENGINEERS • ADVISORS</p> <p>ENQUIRIES@PEAKURBAN.COM.AU</p>	<p>SCALE</p> <p>1:500 10 5 0 10 20 A1 1:1000</p>	<p>CLIENT</p> <p><b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b></p> <p>ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744</p>	<p>PROJECT NAME</p> <p><b>WOODLINKS VILLAGE - STAGE 17</b></p> <p>COLLINGWOOD DRIVE, COLLINGWOOD PARK</p>	<p>DRAWING TITLE</p> <p><b>BULK EARTHWORKS LAYOUT PLAN</b></p>	<table border="1"> <tr> <td>PROJECT No.</td> <td>DRAWING No.</td> <td>REVISION</td> </tr> <tr> <td>20-0071</td> <td>102</td> <td>D</td> </tr> </table>	PROJECT No.	DRAWING No.	REVISION	20-0071	102	D
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20-0071	102	D																																													

- RETAINING WALL NOTES:**
1. ALL RETAINING WALLS ARE TO BE DELIVERED UNDER DESIGN AND CONSTRUCTION ARRANGEMENT - FORMS 15 AND 16 CERTIFICATIONS ARE TO BE PROVIDED BY THE CONTRACTOR.
  2. DESIGN OF WALLS TO CONSIDER ALL LOADS (FENCES, DWELLINGS ETC) AND ASSOCIATED IMPACTS FROM ANY ADJACENT SERVICES - FOOTING DEPTHS TO BE EXTENDED AS REQUIRED.
  3. GEOTECHNICAL CONDITIONS ARE TO BE CONFIRMED AND APPROPRIATELY CONSIDERED FOR ALL WALLS.
  4. REFER LANDSCAPE DRAWINGS FOR FURTHER INFORMATION ON RETAINING WALLS, PARTICULARLY RELATING TO FINISHES.
  5. TEMPORARY SAFETY FENCING TO BE INSTALLED BEHIND ALL WALLS 1.0m HIGH AND GREATER.



**NOTE:**  
REFER FORM 15 FOR  
RETAINING WALL DETAILS



**AS-CONSTRUCTED CERTIFICATION**  
Signature: *Scott Thomas* Date: 21.12.20  
SCOTT THOMAS RPEQ No. 04618  
For and on behalf of Peakurban PTY LTD

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	17.08.20	MG	MG	ISSUED FOR CONSTRUCTION			1:100	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 17	BULK EARTHWORKS TYPICAL SECTIONS
B	29.09.20	LF	SC	TYPICAL WALL SECTION & DETAILS REVISED			1:200			
C	21.12.20	TD	SC	AS CONSTRUCTED						
<b>AS CONSTRUCTED</b>							<b>PEAKURBAN</b> DEVELOPMENT ENGINEERS - ADVISORS		COLLINGWOOD DRIVE, COLLINGWOOD PARK	
DESIGN APPROVED SCOTT THOMAS RPEQ 04618							ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744		PROJECT No. <b>20-0071</b>	
FOR AND ON BEHALF OF PEAKURBAN PTY LTD							ENQUIRIES@PEAKURBAN.COM.AU		DRAWING No. <b>103</b>	
									REVISION <b>C</b>	



**AS-CONSTRUCTED CERTIFICATION**

Signature: *S. Thomas* Date: 21.12.20  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD

**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 LEGEND**

- INVERT OF KERB
- CONCRETE PATH AND PRAM RAMP
- STORMWATER DRAINAGE PIPE
- KERB ADAPTOR WITH PIPE CONNECTION

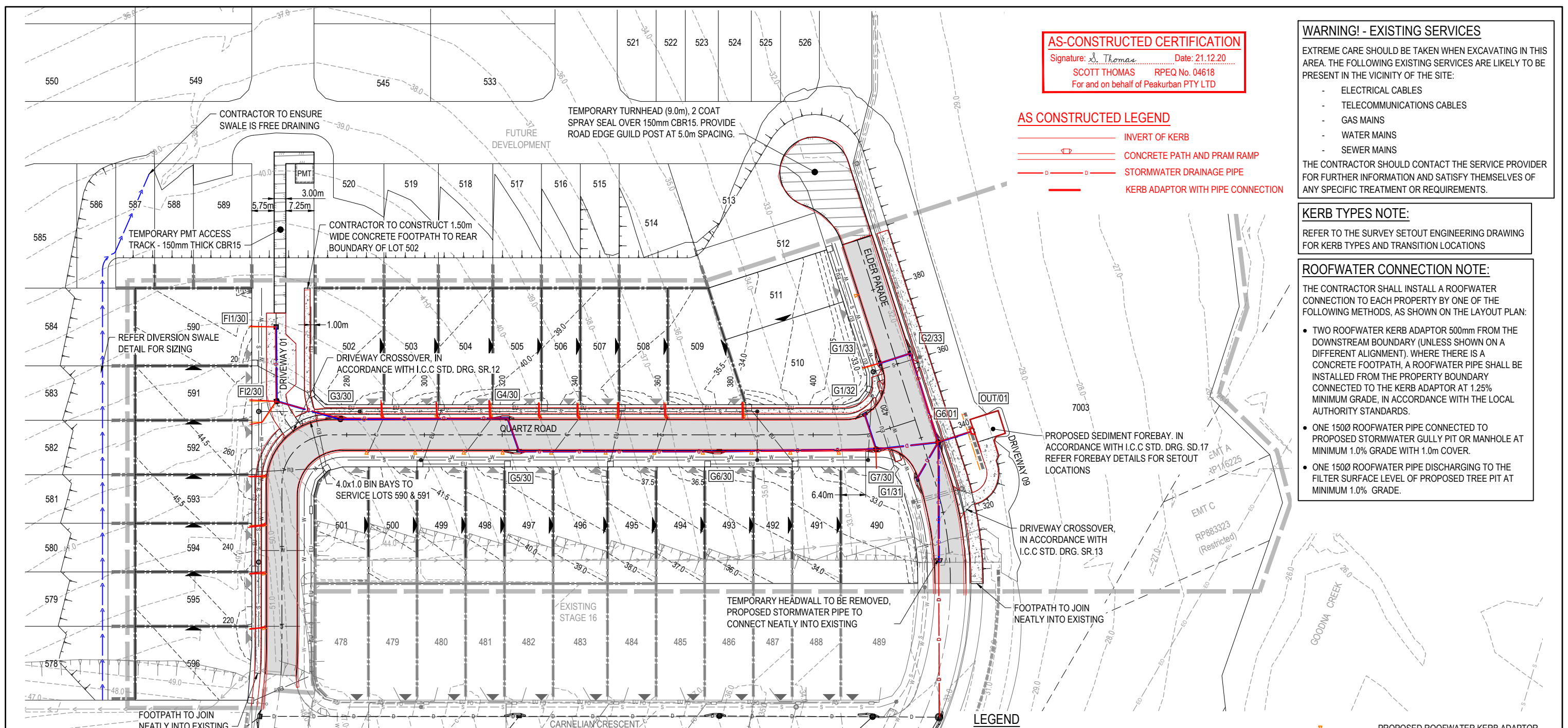
**KERB TYPES NOTE:**

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

**ROOFWATER CONNECTION NOTE:**

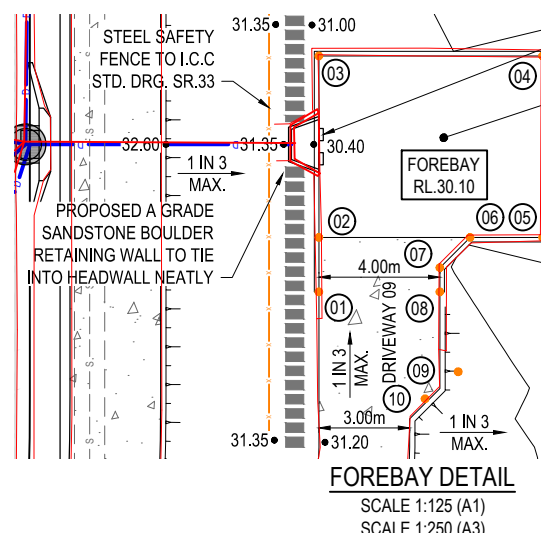
THE CONTRACTOR SHALL INSTALL A ROOFWATER CONNECTION TO EACH PROPERTY BY ONE OF THE FOLLOWING METHODS, AS SHOWN ON THE LAYOUT PLAN:

- TWO ROOFWATER KERB 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.
- ONE 150Ø ROOFWATER PIPE DISCHARGING TO THE FILTER SURFACE LEVEL OF PROPOSED TREE PIT AT MINIMUM 1.0% GRADE.



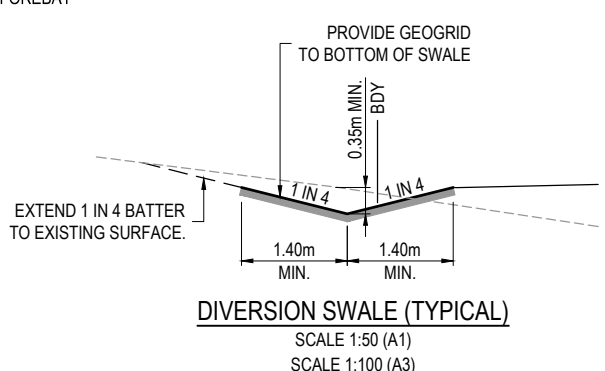
**LEGEND**

- PROPOSED STAGE BOUNDARY
- PROPOSED ROAD CONTROL LINE
- EXISTING ROAD CROWN
- PROPOSED KERB INVERT LINE
- PROPOSED CONCRETE PATH AND PRAM RAMP
- PROPOSED NEW ROAD PAVEMENT
- PROPOSED TEMPORARY TURNHEAD
- INDICATIVE DRIVEWAY LOCATION
- 24.0— PROPOSED SURFACE CONTOUR
- 24.0— EXISTING SURFACE CONTOUR
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED DRAINAGE SWALE
- EXISTING DRAIN
- PROPOSED STEEL SAFETY FENCE
- 24.60 PROPOSED FINISHED SURFACE LEVEL (FSL)
- PROPOSED ROOFWATER KERB ADAPTOR
- PROPOSED ROOFWATER KERB ADAPTOR WITH PIPE CONNECTION TO ALLOTMENT
- PROPOSED SLEEPER RETAINING WALL
- EXISTING SLEEPER RETAINING WALL
- PROPOSED 'A GRADE SANDSTONE BOULDER WALL' (MAX. 0.90m HIGH)
- EXISTING SANDSTONE BOULDER WALL
- PROPOSED BLOCKWORK RETAINING WALL (IN ACCORDANCE WITH ENERGEN STANDARDS)
- PROPOSED SEWERAGE MAIN
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- EXISTING ELECTRICAL CABLE O/H
- EXISTING FIBRE OPTIC CABLE U/G

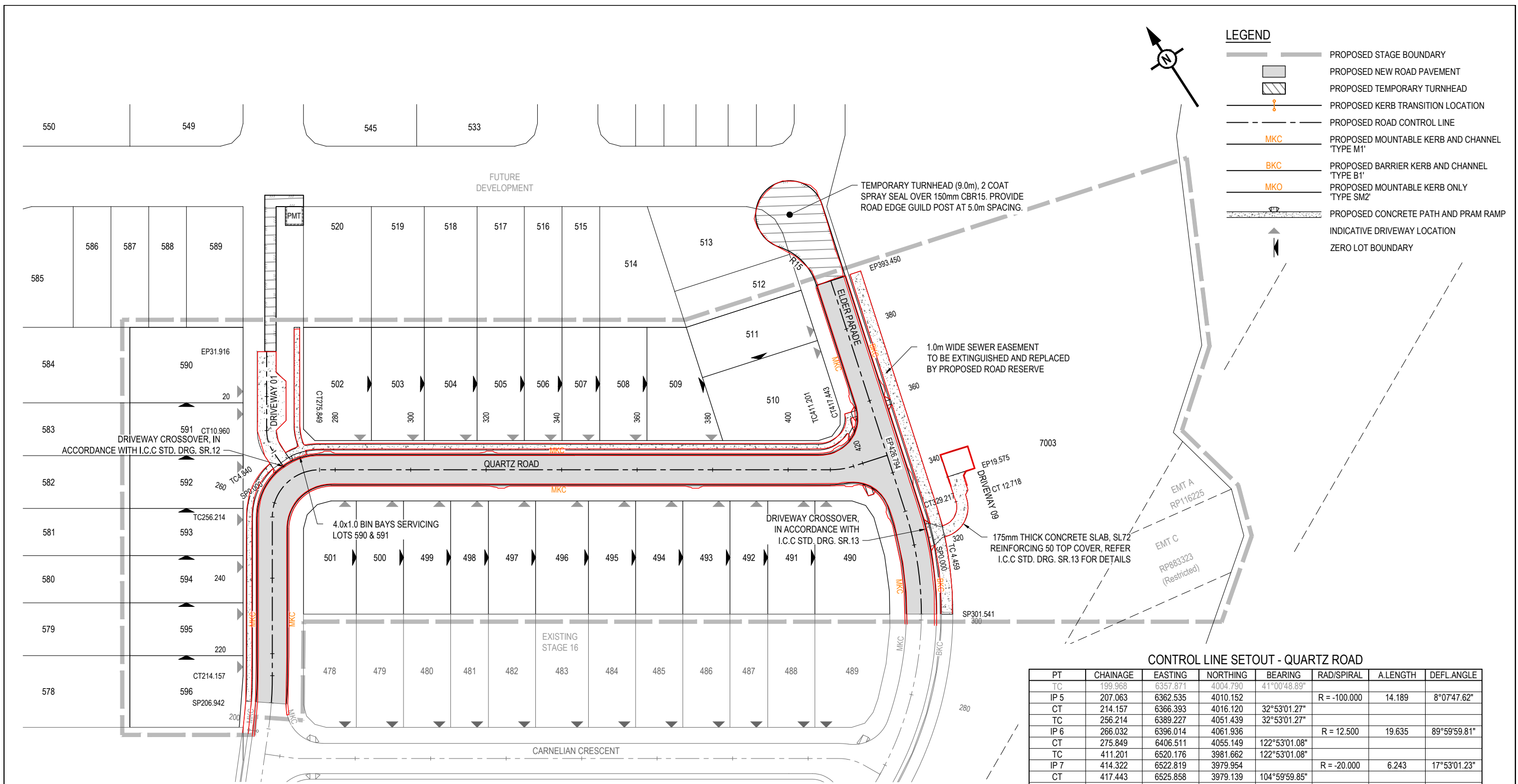


**FOREBAY SETOUT**

POINT No.	EASTING	NORTHING
01	6544.836	3961.461
02	6545.302	3963.199
03	6546.854	3968.995
04	6554.002	3967.080
05	6552.449	3961.284
06	6550.131	3961.905
07	6548.906	3961.198
08	6548.699	3960.425
09	6548.600	3957.716
10	6547.311	3957.135



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**LEGEND**

- PROPOSED STAGE BOUNDARY
- PROPOSED NEW ROAD PAVEMENT
- PROPOSED TEMPORARY TURNHEAD
- PROPOSED KERB TRANSITION LOCATION
- PROPOSED ROAD CONTROL LINE
- PROPOSED MOUNTABLE KERB AND CHANNEL 'TYPE M1'
- PROPOSED BARRIER KERB AND CHANNEL 'TYPE B1'
- PROPOSED MOUNTABLE KERB ONLY 'TYPE SM2'
- PROPOSED CONCRETE PATH AND PRAM RAMP
- INDICATIVE DRIVEWAY LOCATION
- ZERO LOT BOUNDARY

**CONTROL LINE SETOUT - QUARTZ ROAD**

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
TC	199.968	6357.871	4004.790	41°00'48.89"			
IP 5	207.063	6362.535	4010.152		R = -100.000	14.189	8°07'47.62"
CT	214.157	6366.393	4016.120	32°53'01.27"			
TC	256.214	6389.227	4051.439	32°53'01.27"			
IP 6	266.032	6396.014	4061.936		R = 12.500	19.635	89°59'59.81"
CT	275.849	6406.511	4055.149	122°53'01.08"			
TC	411.201	6520.176	3981.662	122°53'01.08"			
IP 7	414.322	6522.819	3979.954		R = -20.000	6.243	17°53'01.23"
CT	417.443	6525.858	3979.139	104°59'59.85"			
IP 8	426.794	6534.891	3976.719	104°59'59.85"			

**CONTROL LINE SETOUT - ELDER PARADE**

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 4	292.237	6520.677	3923.671		R = -88.250	73.961	48°01'06.51"
CT	329.217	6530.850	3961.640	15°00'00.00"			
TC	409.488	6551.626	4039.176	15°00'00.00"			

**CONTROL LINE SETOUT - DRIVEWAY 01**

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	6398.987	4060.832	357°49'13.22"			
TC	4.840	6398.803	4065.669	357°49'13.22"			
IP 2	7.900	6398.682	4068.826		R = 10.000	6.120	35°03'47.85"
CT	10.960	6400.398	4071.479	32°53'01.07"			
IP 3	70.316	6432.624	4121.325	32°53'01.07"			

**CONTROL LINE SETOUT - DRIVEWAY 09**

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	6532.853	3954.509	108°57'33.22"			
TC	4.441	6537.053	3953.066	108°57'33.22"			
IP 2	8.540	6542.120	3951.325		R = -5.000	8.199	93°57'33.22"
CT	12.640	6543.507	3956.501	15°00'00.00"			
IP 3	19.575	6545.302	3963.199	15°00'00.00"			

**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *S. Thomas* Date: 21.12.20  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD

**AS CONSTRUCTED LEGEND**  
 INVERT OF KERB  
 CONCRETE PATH AND PRAM RAMP

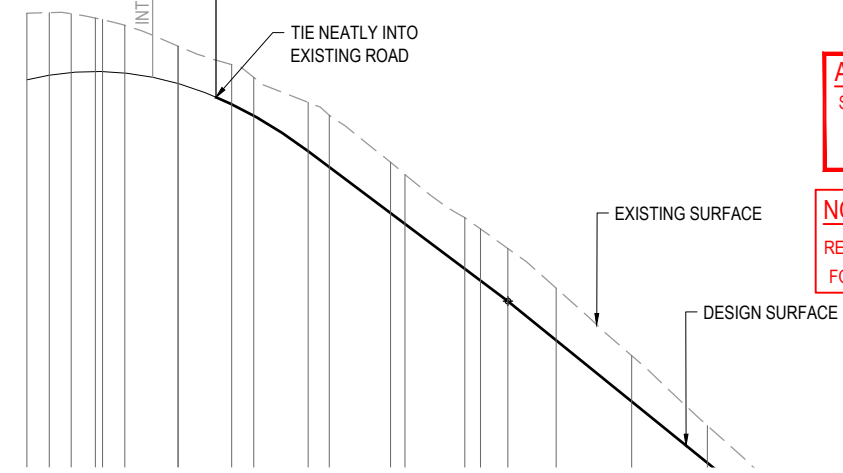
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		<b>AS CONSTRUCTED</b>																									

EXISTING STAGE 16 ROAD  
 HP CH 176.100 RL 48.597  
 INTERSECTION - CARNELIAN CRES.  
 CH193.266  
 START OF STAGE 17 CONSTRUCTION  
 CH206.942

ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)								
ROAD	ROAD CLASSIFICATION	DESIGN ESAS	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUBBASE	TOTAL DEPTH
QUARTZ ROAD	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

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS  
 SB DENOTES SETBACK LINE



**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *S. Thomas* Date: 21.12.20  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD

**NOTE:**  
 REFER TO SURVEYORS AS-CONSTRUCTED DRAWINGS FOR FINISHED SURFACE LEVELS

ASCON PAVEMENT DETAILS

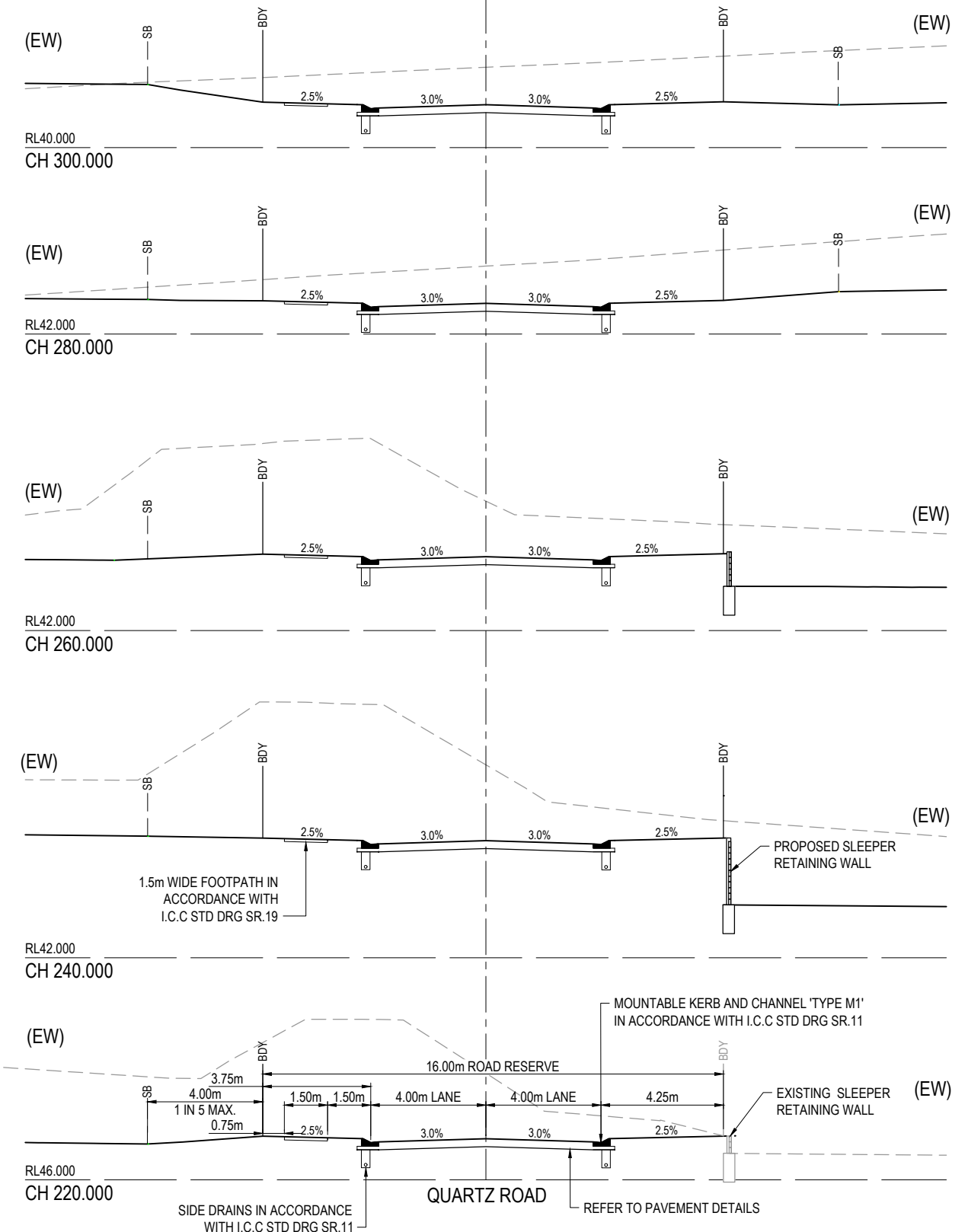
ROAD	ROAD CLASSIFICATION	ROAD CLASS	DESIGN CBR	SURFACING	BASE	SUB BASE	LOWER SUBBASE	TOTAL DEPTH
QUARTZ ROAD CH206-350	ACCESS STREET	CLASS A1	CBR 10	35mm	125mm	100mm	-	260mm

	160.000	165.000	170.000	175.000	180.000	185.000	190.000	200.000	210.000	220.000	234.396	240.000	256.214	260.000	275.849	280.000	287.246	300.000	320.000	340.000	360.000	380.000	393.020	400.000	404.056	411.201	413.056	417.443	418.753	420.000	422.056	427.795	428.794							
CUT (-) / FILL	-1.758	-1.654	-1.554	-1.414	-1.375	-1.261	-0.986	-0.986	-1.045	-1.012	-1.293	-1.371	-1.344	-1.309	-1.354	-1.368	-1.392	-1.377	-1.209	-0.981	-0.752	-0.430	-0.322	-0.279	-0.289	-0.172	-0.090	0.229	0.343	0.465	0.643	0.715	1.145							
LHS LIP LEVEL									47.619	47.316	46.374	45.954	44.738	44.454	43.265	42.954	42.411	41.377	39.757	38.137	36.517	34.897	33.843	33.222	32.861	32.730	#													
RHS LIP LEVEL	EXISTING										47.619	47.316	46.374	45.954	44.738	44.454	43.265	42.954	42.411	41.377	39.757	38.137	36.517	34.897	33.843	33.222	32.861	32.730	#											
DESIGN SURFACE	48.379	48.498	48.570	48.597	48.595	48.557	48.279	48.278	47.731	47.428	46.486	46.066	44.850	44.566	43.377	43.066	42.522	41.489	39.869	38.249	36.629	35.009	33.955	33.333	32.972	32.491	32.417	32.324	32.318	32.323	32.351	32.366	32.466							
EXISTING SURFACE	50.137	50.152	50.124	50.011	49.970	49.818	49.265	49.264	48.776	48.440	47.779	47.437	46.194	45.875	44.731	44.434	43.914	42.866	41.078	39.230	37.381	35.440	34.277	33.612	33.261	32.663	32.507	32.098	31.976	31.868	32.323	32.351	32.366	32.466						
CHAINAGES	160.000	165.000	171.708	178.100	180.000	185.897	199.968	200.000	214.157	220.000	234.396	240.000	256.214	260.000	275.849	280.000	287.246	300.000	320.000	340.000	360.000	380.000	393.020	400.000	404.056	411.201	413.056	417.443	418.753	420.000	422.056	427.795	428.794							
HORIZONTAL CURVES	R100.000		R-100.000		R12.500										R-20.000																									

DATUM RL 24.0

# REFER INTERSECTION DRAWINGS FOR LIP LEVELS

QUARTZ ROAD



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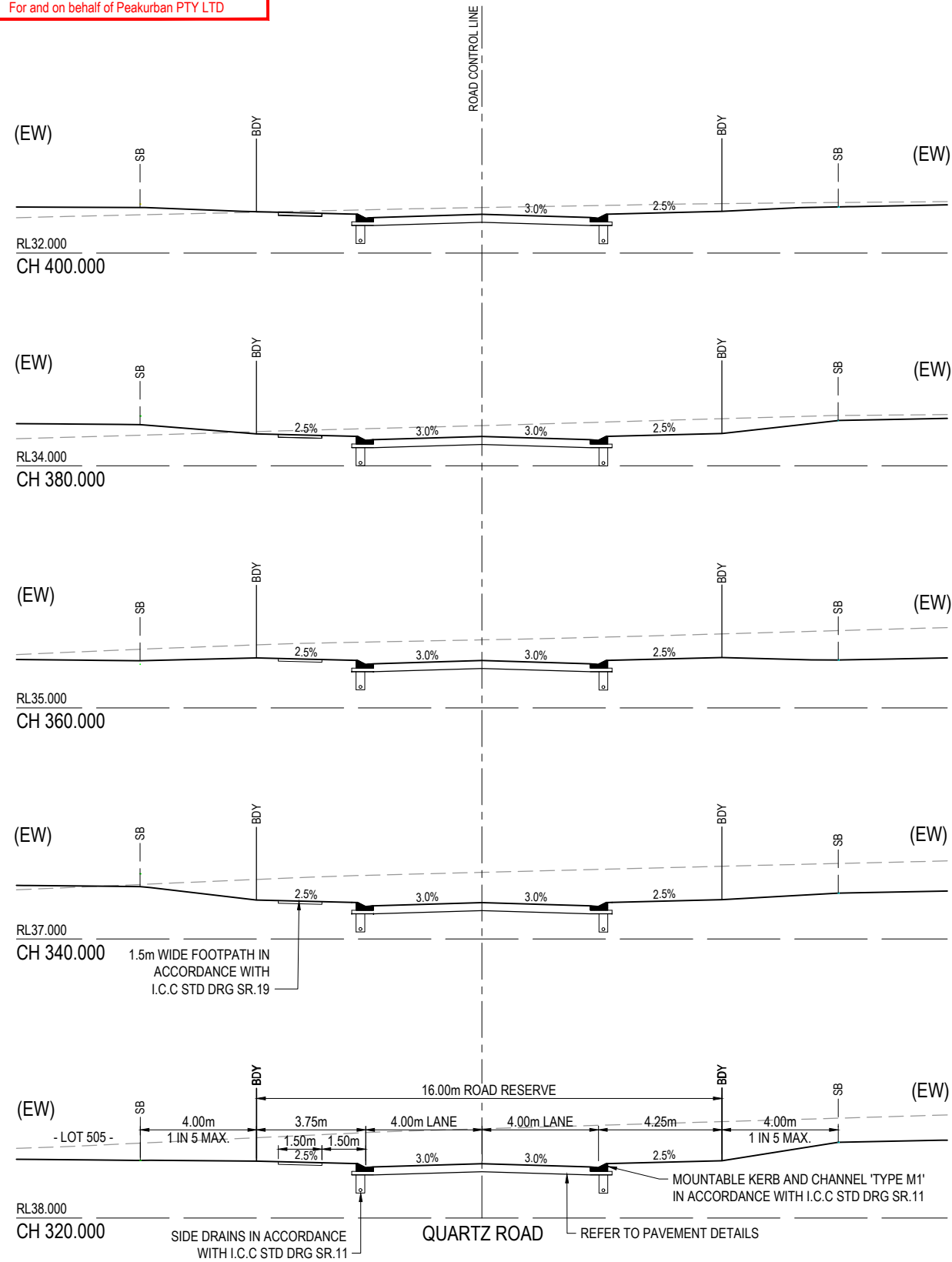


**AS-CONSTRUCTED CERTIFICATION**

Signature: *S. Thomas* Date: 21.12.20  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD

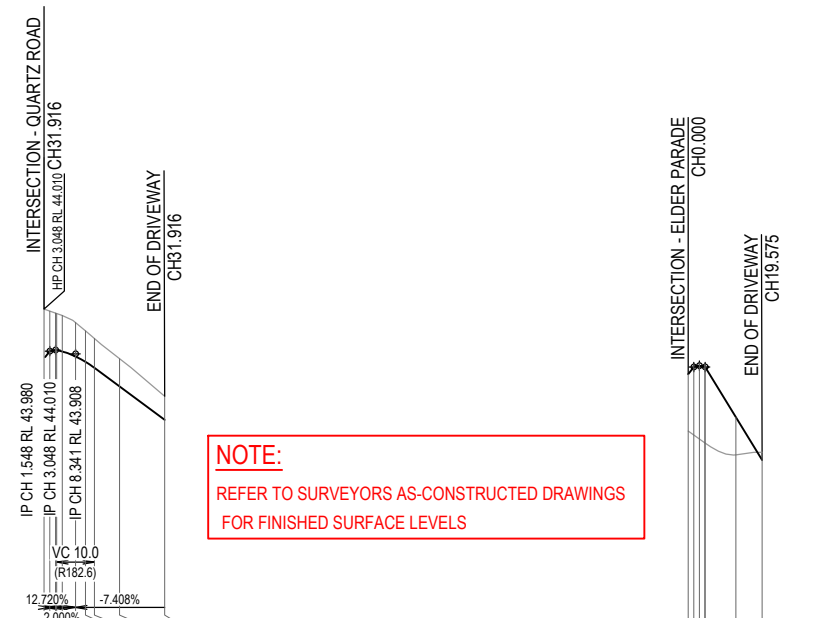
(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS

DENOTES SETBACK LINE



**ASCON PAVEMENT DETAILS**

ROAD	ROAD CLASSIFICATION	ROAD CLASS	DESIGN CBR	SURFACING	BASE	SUB BASE	LOWER SUBBASE	TOTAL DEPTH
QUARTZ ROAD CH350-427	ACCESS STREET	CLASS A1	CBR 6	35mm	125mm	145mm	-	305mm



**NOTE:**  
 REFER TO SURVEYORS AS-CONSTRUCTED DRAWINGS FOR FINISHED SURFACE LEVELS

DATUM RL 36.0

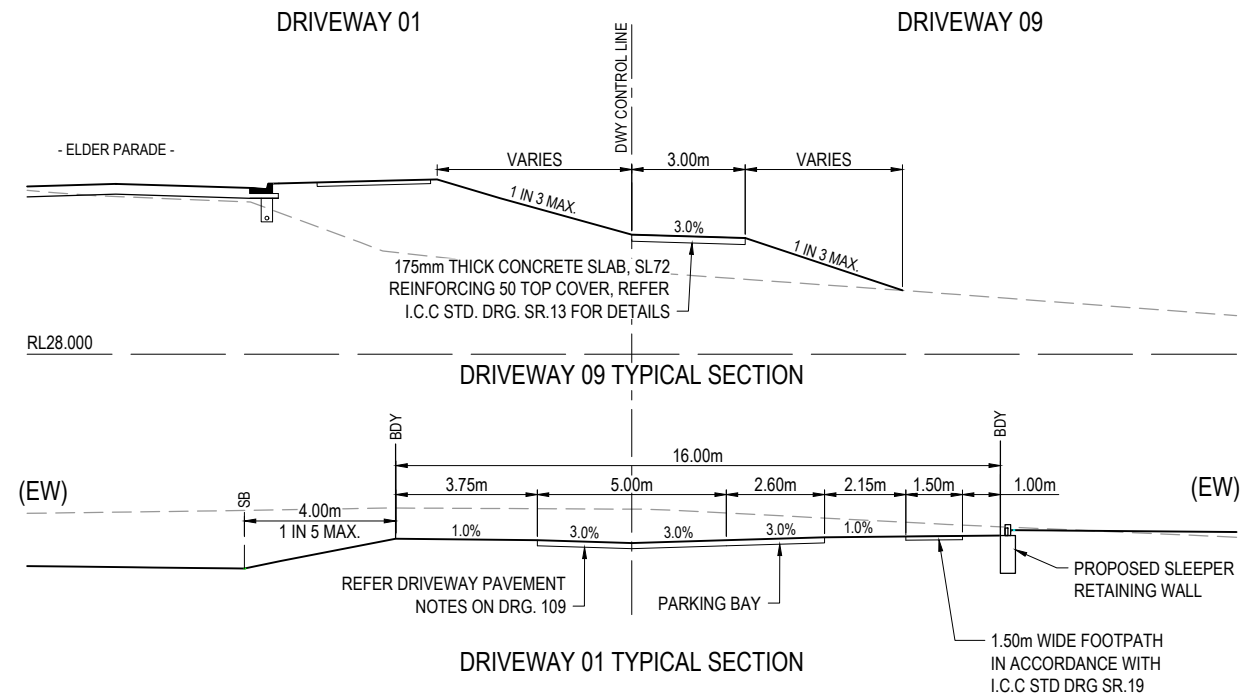
CUT (-) / FILL	DRIVEWAY	CROSSOVER
-1.058	43.980	44.085
-0.975	44.010	44.079
-0.970	44.004	44.044
-0.952	43.969	43.914
-0.898	43.839	43.773
-0.818	43.698	43.612
-0.775	43.537	43.119
-0.733	43.044	42.236
-0.628	42.789	42.161

DESIGN SURFACE: R10.000

DATUM RL 23.0

CUT (-) / FILL	DRIVEWAY	CROSSOVER
1.503	32.370	32.468
1.796	32.557	31.231
1.940	32.595	30.304
2.005	32.559	30.100
2.008	32.557	30.100
0.994	31.231	30.100
-0.204	30.100	30.100

DESIGN SURFACE: R-5.000



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

ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUBBASE	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

**ASCON PAVEMENT DETAILS**

ROAD	ROAD CLASSIFICATION	ROAD CLASS	DESIGN CBR	SURFACING	BASE	SUB BASE	LOWER SUBBASE	TOTAL DEPTH
ELDER PARADE	ACCESS STREET	CLASS A1	CBR 7	35mm	125mm	115mm	-	275mm

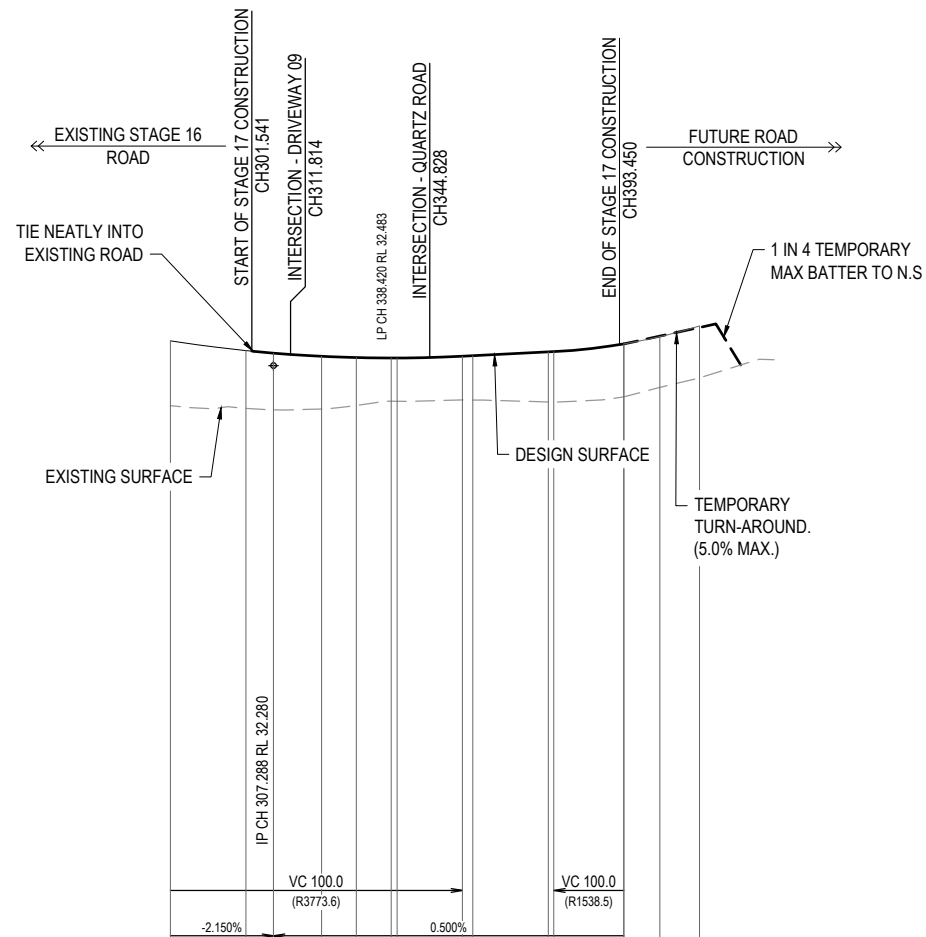
(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS

SB DENOTES SETBACK LINE

**AS-CONSTRUCTED CERTIFICATION**

Signature: *Scott Thomas* Date: 21.12.20  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD

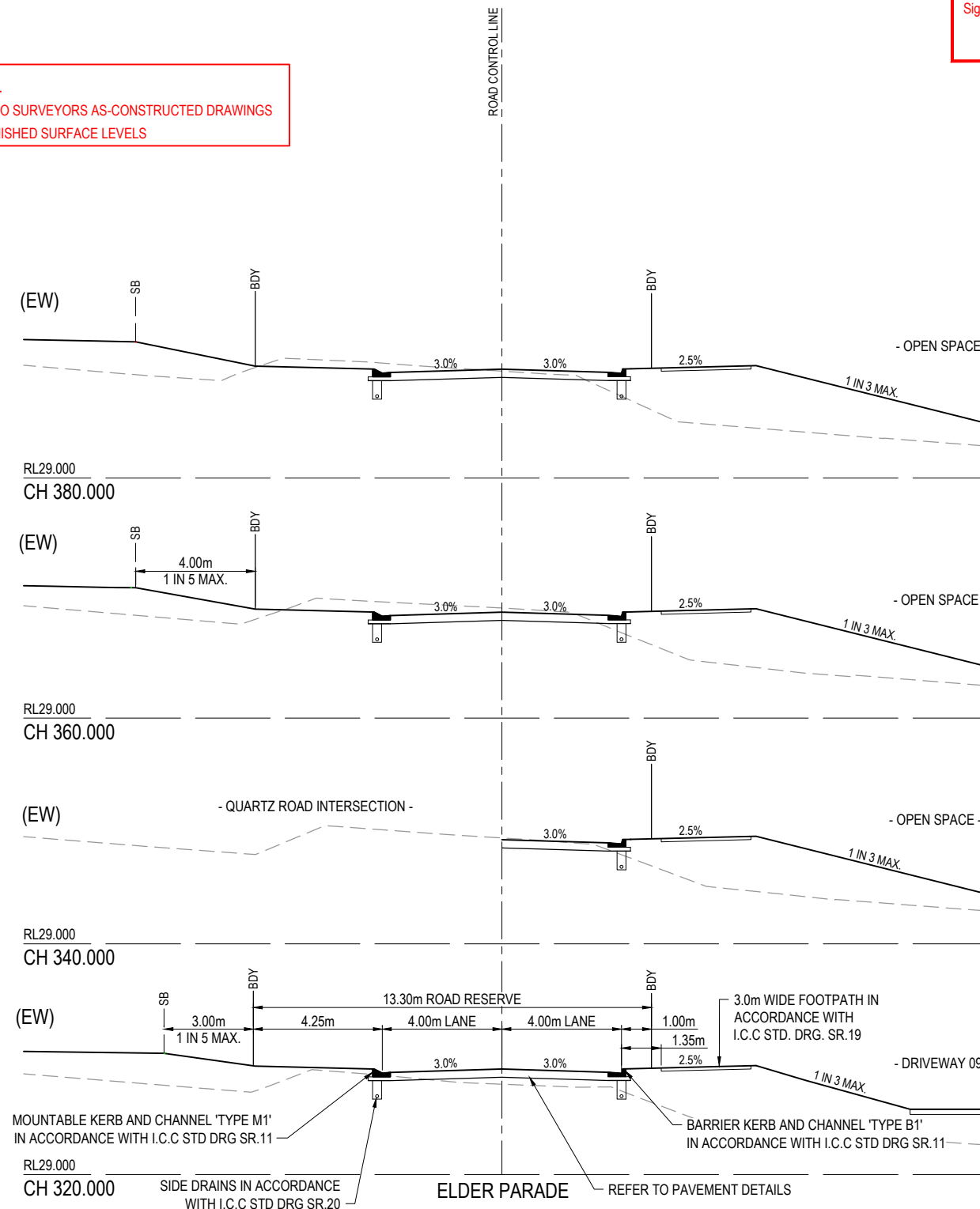
NOTE:  
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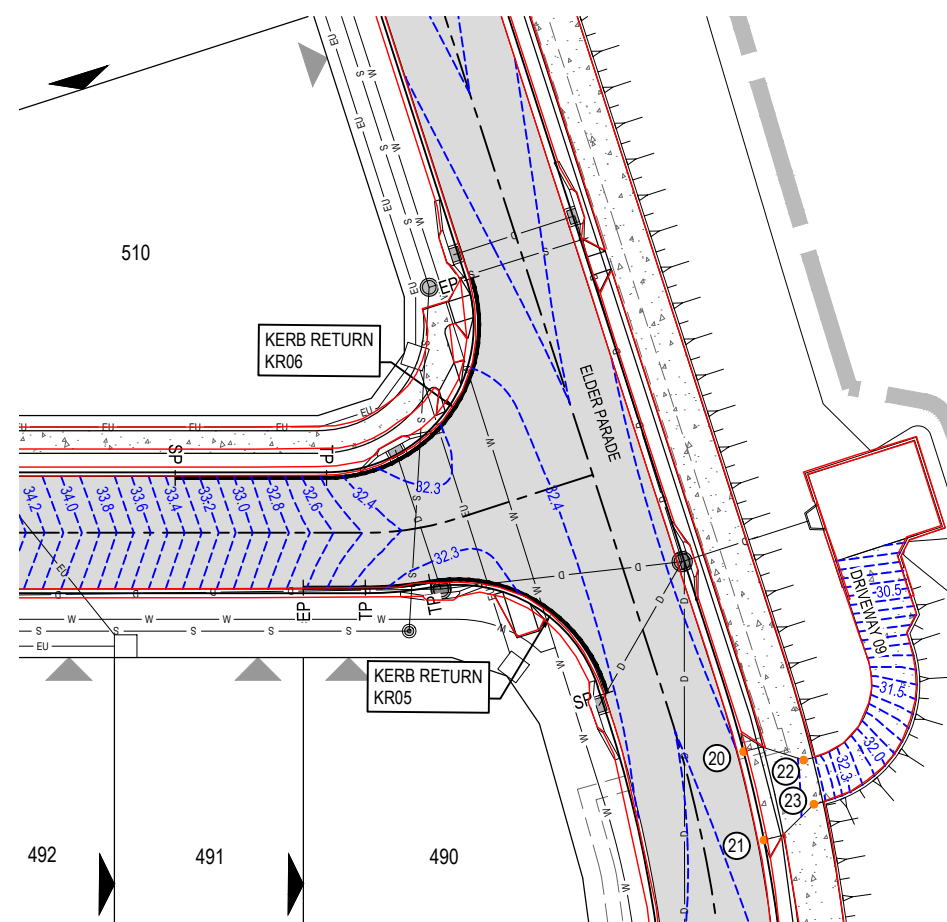
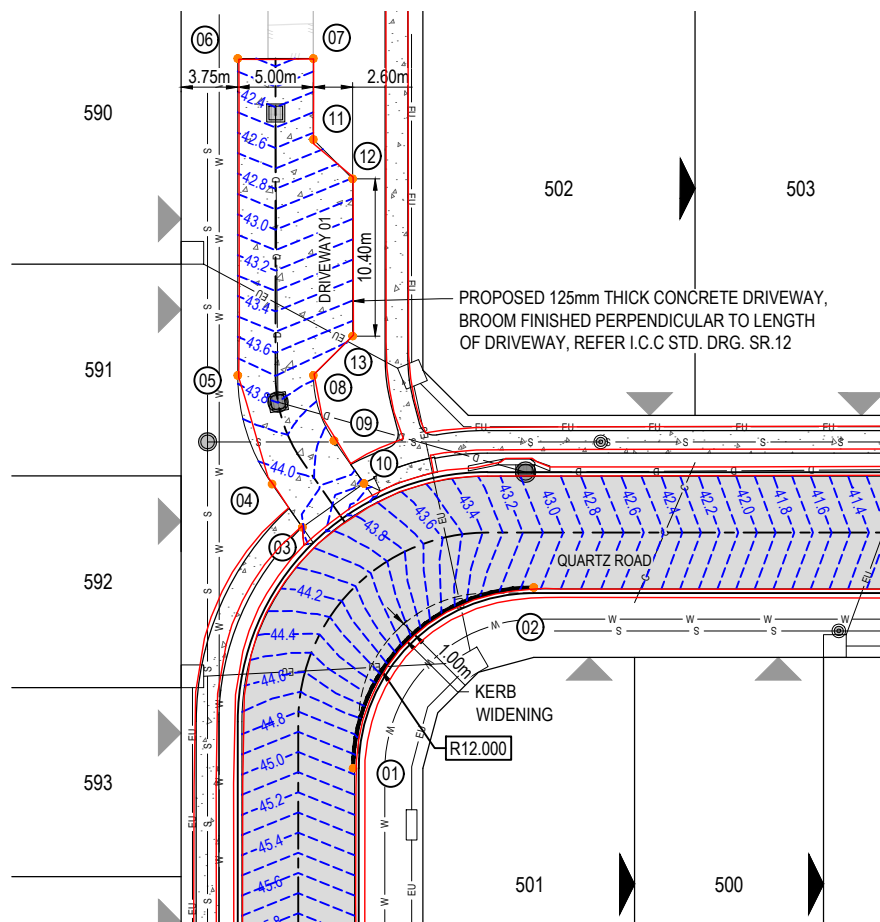
DATUM RL 16.0

	280.000	300.000	307.288	320.000	329.217	338.420	340.000	357.288	360.000	380.000	381.434	400.000	409.488	420.000
CUT (-) / FILL	1.712	1.530	1.500	1.395	1.267	1.144	1.145	1.158	1.173	1.324	1.334	1.403	1.482	1.512
LHS LIP LEVEL	32.823	32.567	32.500	32.416	32.382	32.371	#	32.537	32.532	32.532	32.539	32.744	32.935	33.215
RHS LIP LEVEL	32.828	32.572	32.505	32.421	32.387	32.376	#	32.537	32.544	32.544	32.749	32.940	32.940	33.220
DESIGN SURFACE	32.935	32.678	32.611	32.528	32.494	32.483	32.530	32.643	32.651	32.656	32.856	33.047	33.327	
EXISTING SURFACE	31.223	31.148	31.112	31.133	31.227	31.339	31.338	31.372	31.370	31.320	31.317	31.463	31.565	31.815
CHAINAGES	280.000	300.000	307.288	320.000	329.217	338.420	340.000	357.288	360.000	380.000	381.434	400.000	409.488	420.000
HORIZONTAL CURVES	R-88.250													

# REFER INTERSECTION DRAWINGS FOR LIP LEVELS ELDER PARADE



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**LEGEND**

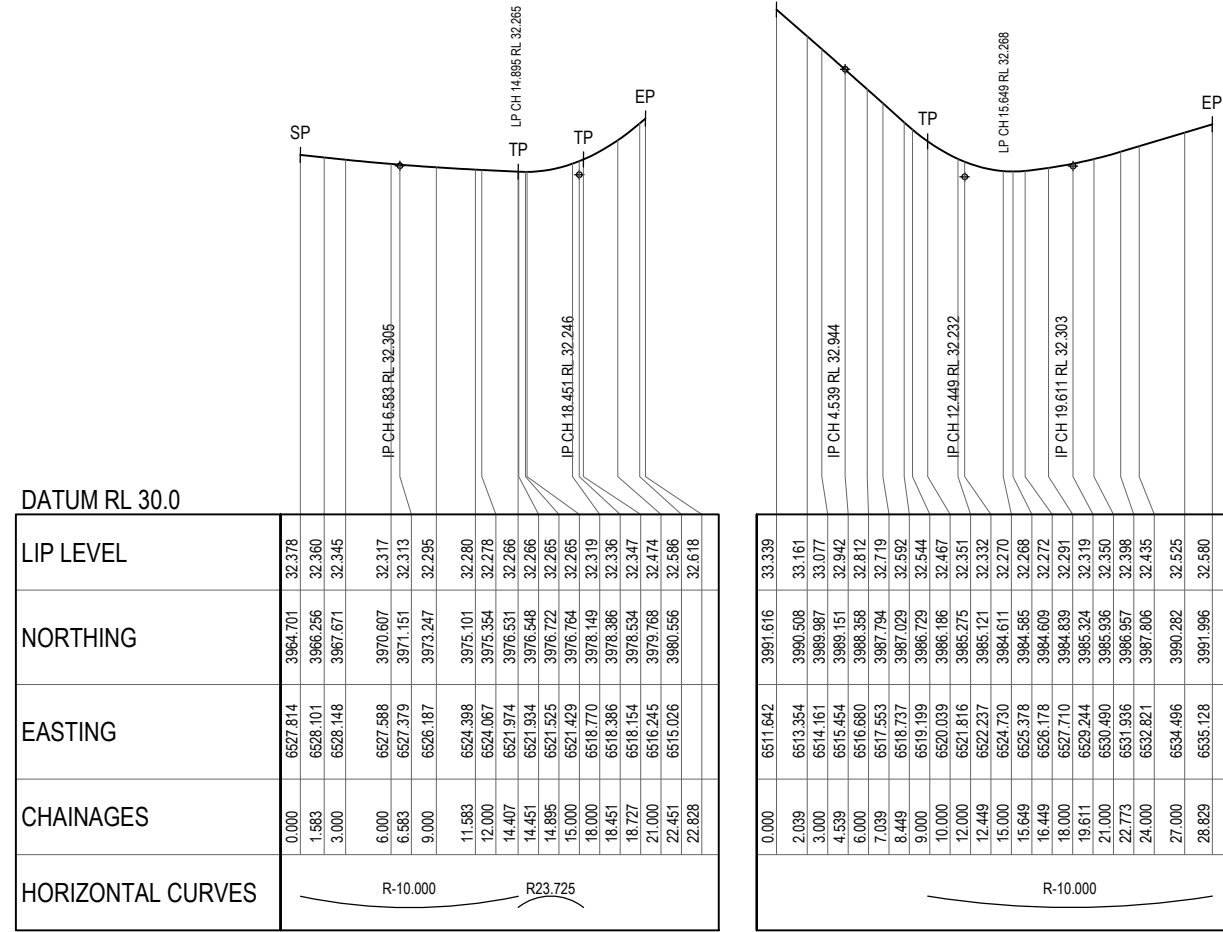
- PROPOSED ROAD CONTROL LINE
- PROPOSED KERB INVERT LINE
- PROPOSED CONCRETE PATH AND PRAM RAMP
- PROPOSED NEW ROAD PAVEMENT
- INDICATIVE DRIVEWAY LOCATION
- PROPOSED PAVEMENT CONTOUR (0.2m INTERVAL)
- PROPOSED STORMWATER DRAINAGE PIPE
- PROPOSED SEWERAGE MAIN
- PROPOSED WATER MAIN
- PROPOSED WATER CONDUIT
- PROPOSED KERB SETOUT LINE
- PROPOSED KERB SETOUT START POINT
- PROPOSED KERB SETOUT TANGENT POINT
- PROPOSED KERB SETOUT END POINT

**KERB WIDENING SETOUT**

POINT No.	EASTING	NORTHING
01	6390.600	4046.886
02	6407.128	4050.434

**DRIVEWAY SETOUT**

POINT No.	EASTING	NORTHING
03	6396.437	4062.080
04	6396.304	4065.574
05	6398.298	4072.836
06	6409.676	4090.435
07	6413.875	4087.720
08	6402.497	4070.121
09	6401.301	4065.764
10	6401.432	4062.308
11	6410.967	4083.222
12	6411.739	4079.627
13	6406.092	4070.893
20	6533.329	3955.932
21	6531.287	3950.289
22	6536.365	3953.302
23	6535.344	3950.481

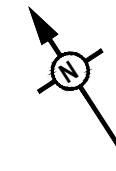


**NOTE:**  
REFER TO SURVEYORS AS-CONSTRUCTED DRAWINGS FOR FINISHED SURFACE LEVELS

**AS-CONSTRUCTED CERTIFICATION**  
Signature: *S. Thomas* Date: 21.12.20  
SCOTT THOMAS RPEQ No. 04618  
For and on behalf of Peakurban PTY LTD

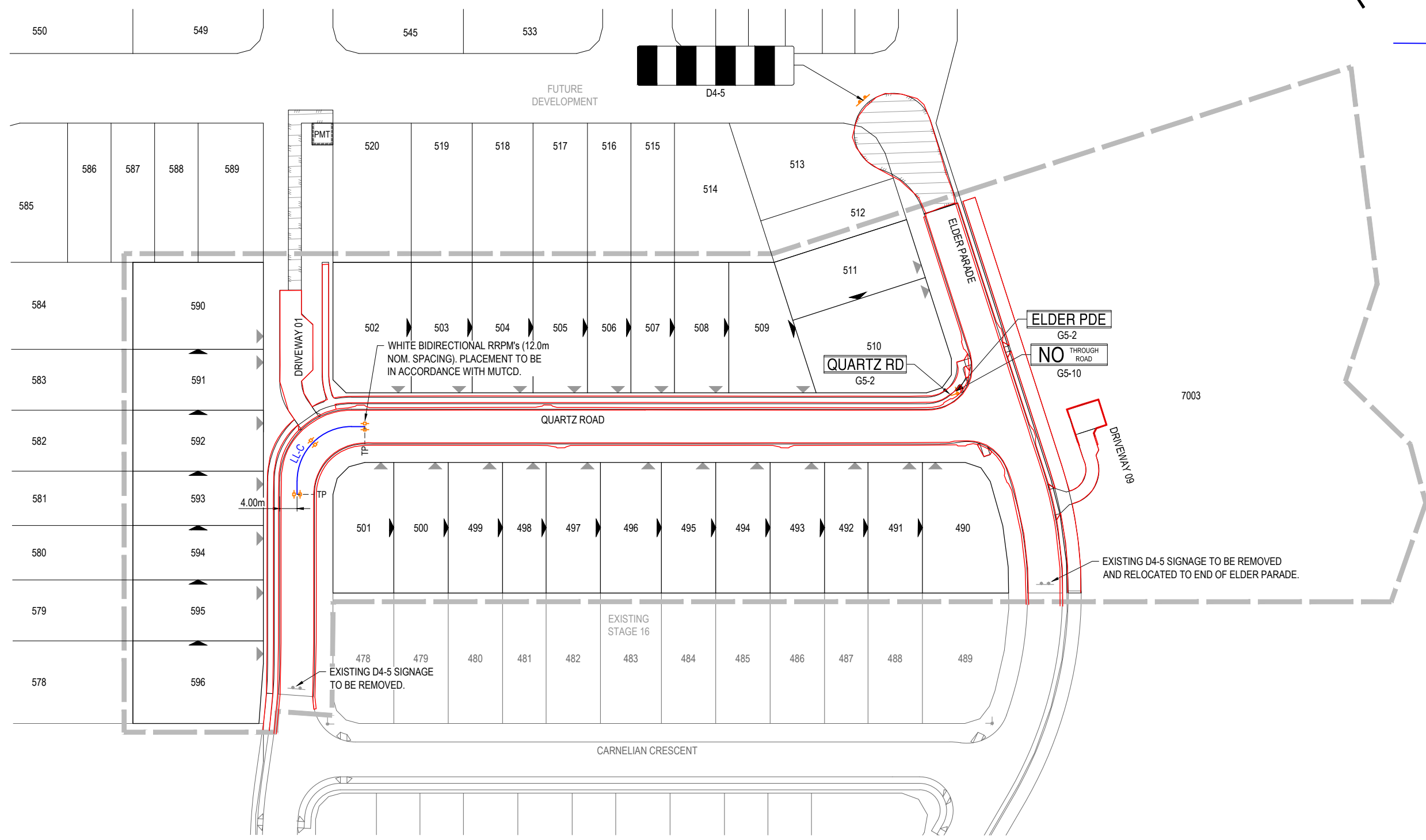
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1:100 VERTICAL A3																																									
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INTERSECTION DETAILS LAYOUT PLAN																																									
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20-0071	109	B																																							





**LEGEND**

- PROPOSED STAGE BOUNDARY
- PROPOSED STREET NAME SIGN
- PROPOSED ROAD SIGN
- EXISTING STREET NAME SIGN
- EXISTING ROAD SIGN
- PROPOSED LANE LINE - CONTINUOUS
- PROPOSED RRPM - WHITE - BIDIRECTIONAL
- INDICATIVE DRIVEWAY LOCATION
- ZERO LOT BOUNDARY



**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *Scott Thomas* Date: 21.12.20  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD

- 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 SIGN 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.

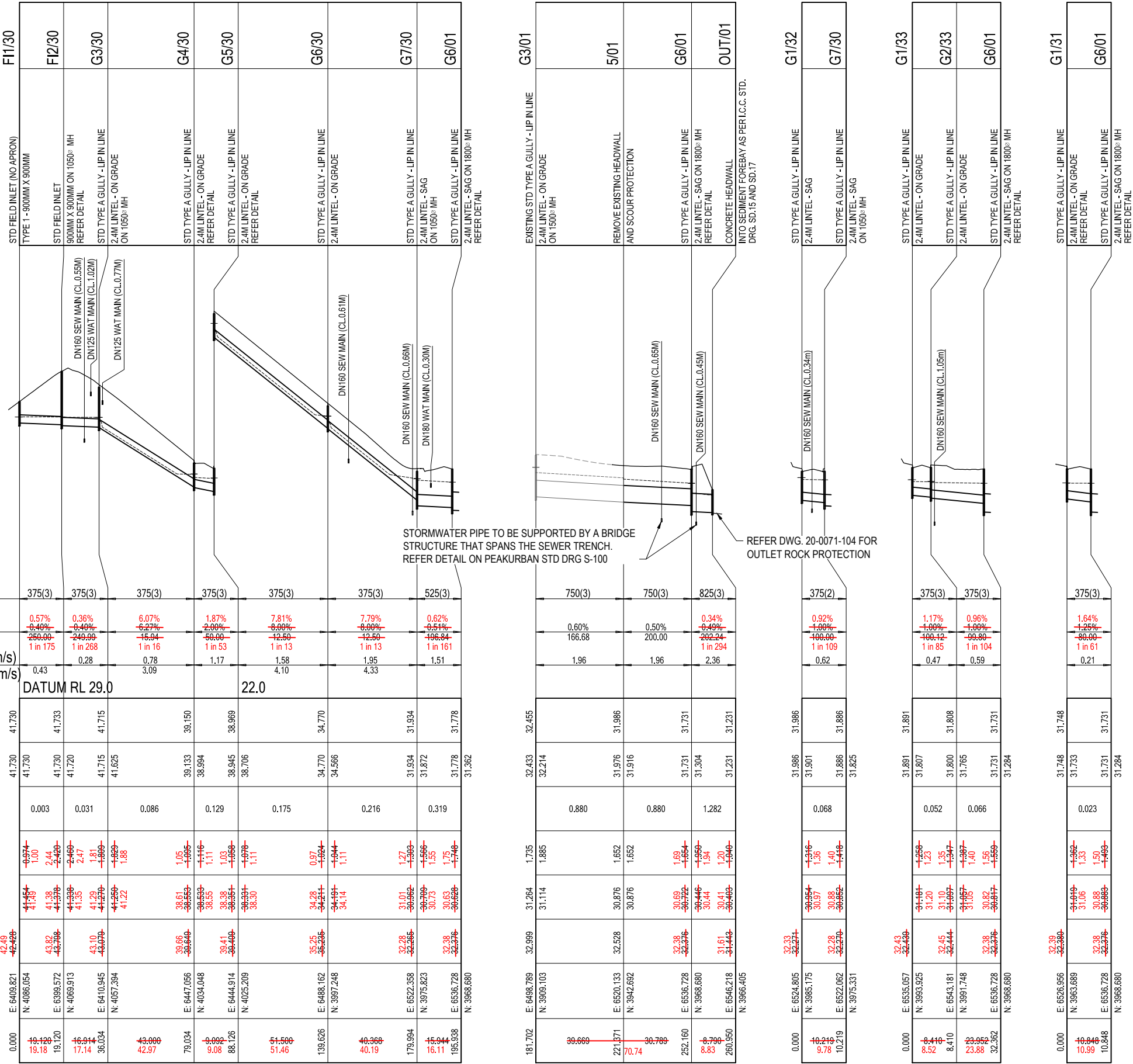
<b>REV</b>	<b>DATE</b>	<b>DESIGN</b>	<b>DRAWN</b>	<b>REVISION DETAILS</b>	<b>DRAWN</b>	<b>STATUS</b>		<b>SCALE</b>	<b>CLIENT</b>	<b>PROJECT NAME</b>	<b>DRAWING TITLE</b>
A	17.08.20	MG	MG	ISSUED FOR CONSTRUCTION			<b>AS CONSTRUCTED</b>	1:500 1:1000	<b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b>	<b>WOODLINKS VILLAGE - STAGE 17</b>	<b>SIGNS AND LINEMARKING LAYOUT PLAN</b>
B	21.12.20	TD	SC	AS CONSTRUCTED					ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE, COLLINGWOOD PARK	PROJECT No. <b>20-0071</b>
					DESIGN APPROVED SCOTT THOMAS RPEQ 04618		FOR AND ON BEHALF OF PEAKURBAN PTY LTD				DRAWING No. <b>110</b>
							ENQUIRIES@PEAKURBAN.COM.AU				REVISION <b>B</b>

STRUCTURE NAME
STRUCTURE DESCRIPTION

**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 SIZEmm (Class)	375(3)	375(3)	375(3)	375(3)	375(3)	375(3)	525(3)
PIPE GRADE %	0.57%	0.36%	6.07%	1.87%	7.81%	7.79%	0.62%
PIPE SLOPE 1 in X	250.00	240.96	15.94	60.00	12.50	106.84	100.00
FULL PIPE FLOW VELOCITY (m/s)	0.43	0.28	0.78	1.17	1.58	1.95	1.51
PART FULL FLOW VELOCITY (m/s)			3.09		4.10	4.33	

WATER LEVEL IN STRUCTURE	41.730	41.730	41.730	41.730	41.730	41.730	41.730
HYDRAULIC GRADE LEVEL	41.730	41.730	41.730	41.730	41.730	41.730	41.730
PIPE FLOW (Cumecs)	0.003	0.031	0.086	0.129	0.175	0.216	0.319
DEPTH TO INVERT	0.974	1.00	1.05	1.11	1.11	1.11	1.11
INVERT LEVEL OF DRAIN	41.730	41.730	41.730	41.730	41.730	41.730	41.730
DESIGN SURFACE LEVEL	42.49	42.49	42.49	42.49	42.49	42.49	42.49
SETOUT	E: 6409.821	N: 4086.054	E: 6399.572	N: 4069.513	E: 6410.545	N: 4057.394	E: 6447.056
RUNNING CHAINAGE	0.000	19.18	19.120	17.14	36.034	42.97	79.034



**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *Scott Thomas* Date: 21.12.20  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD

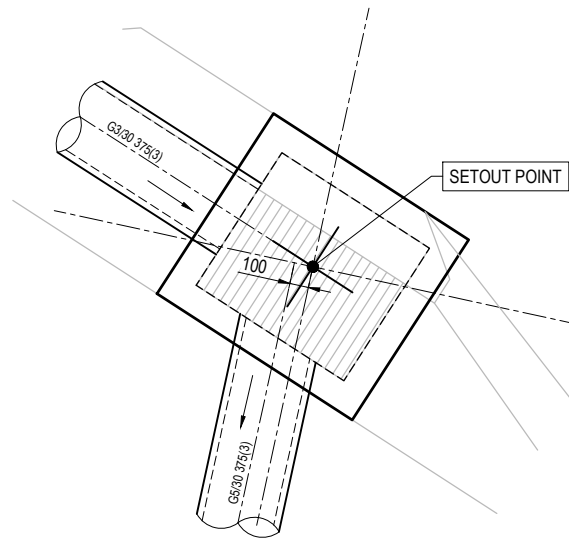
REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	17.08.20	MG	MG	ISSUED FOR CONSTRUCTION		<b>AS CONSTRUCTED</b>	SCALE 1:1000 10 0 10 20 30 40 50 A1 1:2000 HORIZONTAL 1:100 2 1 0 2 4 A1 1:200 VERTICAL	<b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b> ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	<b>WOODLINKS VILLAGE - STAGE 17</b> COLLINGWOOD DRIVE, COLLINGWOOD PARK	<b>STORMWATER DRAINAGE LONGITUDINAL SECTIONS</b> PROJECT No. 20-0071 DRAWING No. 112 REVISION C
B	26.08.20	AC	SC	AMENDED CENTRE OF STRUCTURE SETOUT POINT						
C	21.12.20	TD	SC	AS CONSTRUCTED						
DESIGN APPROVED SCOTT THOMAS RPEQ 04618 FOR AND ON BEHALF OF PEAKURBAN PTY LTD							ENQUIRIES@PEAKURBAN.COM.AU			

DESIGN ARI	LOCATION				TIME		SUB-CATCHMENT RUNOFF					INLET DESIGN					DRAIN DESIGN										HEADLOSSES					PART FULL					DESIGN LEVELS																	
	STRUCTURE No.	DRAIN SECTION	SUB-CATCHMENTS CONTRIBUTING	LAND USE	%	min	mm/h	C10	C	A	CxA	+CA	Q	tc	I	+CA	QI	Qm	Qs	Qp	L	S	V	T	STRUCTURE CHART No.	STRUCTURE RATIOS FOR 'K' VALUE CALCULATIONS	VELOCITY HEAD	I/S HEADLOSS COEFFICIENT	I/S PIPE STRUCT. HEADLOSS	LAT. HEADLOSS CO-EFFICIENT	LAT. PIPE STRUCT. HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x S)	DEPTH	VELOCITY	OBVERT LEVELS	DRAIN SECTION H.G.L	UPSTREAM H.G.L	LAT. H.G.L	W.S.E.	SURFACE OR R/C INVERT LEVEL	STRUCTURE No.										
2100	F11/30	F11/30 to F12/30	F11/30		5.00	146	0.75	0.010	0.010	0.007	0.007	0.010	3	5.00	146	0.007	9		3	25.167	0.40	375	10.03	0.42	0g 0.003 Do 0.003 Do 375 CHRT 32: Vo2/ZgDo 0.00 H/Do 0.00 Kg side flow 10.88 end flow 7.57 Part full downstream pipe	0.000	100	0.000	Upstream pipe HGL 42.245 Set Kp to 1	100	0.000	0.00	0.000	0.041	0.43	42.245	42.144	42.145	42.145	42.280	F11/30													
2100	F12/30	F12/30 to G3/30	F11/30,F12/30		10.00	112	0.75	0.125	0.094	0.094	0.125	29	10.00	112	0.101	96		31	14.694	0.40	375	10.28	0.24	0g 0.029 Do 0.031 Do 375 Angle 85 Chart 47 S/Do 25 chartdeg Du/Do 100 K0 192 K0.5 2.12 Qu/Do 0.07 Cg 1.32 K 2.19 S/Do 2.0 K0 2.44 K0.5 2.40 K 2.39 S/Do 15 K0 2.81 K0.5 2.58 K 2.35	0.004	2.82	0.011	Interp val for S/Do 1.05 Kw 2.77 CHART 46	2.82	0.011	0.03	0.005	0.005	0.43	42.124	42.134	42.145	42.145	43.969	F12/30														
2100	G3/30	G3/30 to G4/30	F11/30,F12/30,G3/30		10.00	112	0.75	0.289	0.216	0.216	0.289	67	10.00	111	0.317	298		212	86	4.3000	7.25	375	10.78	0.72	0g 0.055 Do 0.086 Do 375 CHART 33 Angle 1 S/Do 25 Du/Do 100 Qg/Do 0.64 K 1.76 S/Do 122 cor 0.94 Ku 2.70 Kw 2.70	0.031	2.70	0.084		2.70	0.084	0.24	0.104	0.108	3.25	42.045	42.045	42.129	42.129	43.079	G3/30													
2100	G4/30	G4/30 to G5/30	F11/30,F12/30,G3/30		10.00	112	0.75	0.111	0.128	0.128	0.111	40	10.00	108	0.445	407		278	129	9.092	2.00	375	11.17	0.13	0g 0.045 Do 0.129 Do 375 Angle 69 Chart 43 S/Do 25 chartdeg Du/Do 100 K0 135 K0.5 2.12 Qu/Do 0.65 Cg 0.77 K 1.19 S/Do 2.0 K0 1.41 K0.5 2.25 K 2.06 S/Do 15 K0 1.58 K0.5 2.53 K 2.30	0.070	1.99	0.139	Interp val for S/Do 1.64 Kw 2.23 CHART 42	2.23	0.156	0.54	0.049	0.154	4.10	38.908	38.994	39.133	39.150	39.649	G4/30													
2100	G5/30	G5/30 to G6/30	F11/30,F12/30,G3/30		10.00	112	0.75	0.242	0.181	0.181	0.242	56	10.00	107	0.626	570		395	175	51500	8.00	375	11.58	0.54	0g 0.047 Do 0.175 Do 375 Angle 69 Chart 43 S/Do 25 chartdeg Du/Do 100 K0 135 K0.5 1.93 Qu/Do 0.73 Cg 0.62 K 1.71 S/Do 2.0 K0 1.41 K0.5 2.25 K 1.93 S/Do 15 K0 1.58 K0.5 2.53 K 2.17	0.127	1.88	0.239	Interp val for S/Do 1.70 Kw 2.07 CHART 42	2.07	0.263	0.99	0.511	0.154	4.10	38.706	38.706	38.945	38.969	39.409	G5/30													
2100	G6/30	G6/30 to G7/30	F11/30,F12/30,G3/30		10.00	112	0.75	0.197	0.147	0.147	0.197	46	10.00	116.3	105	0.773	689		474	216	40.368	8.00	375	11.95	0.35	0g 0.044 Do 0.216 Do 375 CHART 33 Angle 0 S/Do 25 Du/Do 100 Qg/Do 0.21 K 0.83 S/Do 154 cor 0.22 Ku 1.05 Kw 1.05	0.194	1.05	0.204		1.05	0.204	1.51	0.611	0.173	4.33	34.566	34.566	34.770	34.770	35.235	G6/30												
2100	S/01	S/01 to G6/01	G6/11,G11/10,G12/10,G13/10,G14/10,G15/10,G16/10,G17/10,G18/10,G19/10,G20/10,G21/10,G22/10,G23/10,G24/10,G25/10		13.00	100	0.75	0.299	0.224	0.224	0.299	62	13.00	99	2.569	2087		880	30.789	0.50	750	11.96	0.26	0g 0.880 Do 750 CHART 50 Du/Do 100 alpha 0 K w 0.05 Vu 1.99 WSE 0.07 Ku 0.31 Kw 0.36	0.196	0.31	0.060		0.36	0.070	0.60	0.185	4.10	31.632	31.916	31.976	31.986	32.528	S/01															
2100	G1/32	G1/32 to G1/30	G1/32		13.00	230	0.75	0.299	0.299	0.299	0.299	191	13.00	100	0.224	191		68	10.219	1.00	375	12.62	0.17	0g 0.068 Do 0.068 Do 375 CHRT 32: Vo2/ZgDo 0.05 H/Do 1.53 Kg side flow 4.33 end flow 3.45	0.020	4.33	0.085		4.33	0.085	0.15	0.015	0.173	4.33	31.329	31.901	31.986	31.986	32.271	G1/32														
2100	G7/30	G7/30 to G6/01	F11/30,F12/30,G3/30		10.00	112	0.75	0.210	0.157	0.157	0.210	49	10.00	99	1.154	982		319	15.944	0.51	525	11.51	0.18	0g 0.048 Do 0.319 Do 525 Flow G6/30 made eqv grate flow Angle 82 Chart 47 S/Do 25 chartdeg Du/Do 0.71 K0 2.37 K0.5 2.33 Qu/Do 0.21 Cg 1.27 K 2.32 S/Do 3.0 K0 2.27 K0.5 1.98 K 1.90 S/Do 2.5 K0 2.37 K0.5 2.33 K 2.32 Interp val for S/Do 2.65 Kw 2.20 CHART 46 S/Do 3.0 K0 1.60 K0.5 1.88 K 1.95 S/Do 2.5 K0 1.49 K0.5 1.97 K 2.11 Interp val for S/Do 2.65 Kw 2.06 K vals above for stepped pipes as grate flow grate flow decreased by 0.203 from G6/30 Routine 2.2 CHART 48 Du/Do 0.71 Qu/Do 0.64 K 0.40	0.116	0.52	0.061	d/Do 2.5 chr1 Qg/Do 0.15 Kw 0.12 d/Do 2.0 chr1 Qg/Do 0.15 Kw 0.08 d/Do 2.15 Interp val for S/Do 0.09 Ku=Kw= 0.50 Combined pipes in line case Join Pipes: G1/32 and G6/30 Vel1 1.84 Vel2 0.611 Eq Dia 4.74 Angle 207 Flow 0.27 CHART 33 Angle 0 S/Do 2.5 Du/Do 0.90 Qg/Do 0.15 K 0.51 S/Do 2.28 cor 0.03 Ku 0.54 Kw 0.54 Interpolated Ku= 0.50 Kw= 0.50 K vals step pipes as pipe flow Ku 0.50 Kw 0.50 Averaged Ku 0.52 Kw 0.53	0.53	0.061	0.59	0.094	0.173	4.33	31.227	31.825	31.886	31.886	32.270	31.886	32.270	31.886	32.270	31.886	32.270	31.886	32.270	31.886	32.270	31.886	32.270	31.886	32.270	G7/30
2100	G1/33	G1/33 to G2/33	G1/33		10.00	112	0.75	0.228	0.171	0.171	0.228	53	10.00	112	0.171	162		191	8.410	1.00	375	13.47	0.14	0g 0.052 Do 0.052 Do 375 CHRT 32: Vo2/ZgDo 0.03 H/Do 0.67 Kg side flow 7.39 end flow 5.35	0.011	7.39	0.084		7.39	0.084	0.09	0.007	0.173	4.33	31.556	31.807	31.891	31.891	32.439	G1/33														
2100	G2/33	G2/33 to G6/01	G1/33,G2/33		5.00	146	0.75	0.060	0.045	0.045	0.060	18	5.00	111	0.216	203		138	66	23.952	1.00	375	13.59	0.40	0g 0.014 Do 0.066 Do 375 Angle 91 Chart 47 S/Do 25 chartdeg Du/Do 100 K0 192 K0.5 2.12 Qu/Do 0.79 Cg 0.50 K 2.02 S/Do 2.5 K0 1.92 K0.5 2.12 K 2.02 S/Do 2.0 K0 2.44 K0.5 2.40 K 2.42	0.018	1.98	0.035	Interp val for S/Do 2.00 Kw 2.42 CHART 46	2.42	0.043	0.14	0.034	0.173	4.33	31.432	31.765	31.800	31.800	32.444	G2/33													
2100	G1/31	G1/31 to G6/01	G1/31		10.00	112	0.75	0.097	0.073	0.073	0.097	23	10.00	112	0.073	69		46	23	10.848	1.25	375	13.21	0.18	0g 0.023 Do 0.023 Do 375 CHRT 32: Vo2/ZgDo 0.01 H/Do 0.90 Kg side flow 6.97 end flow 4.97	0.002	6.97	0.015		6.97	0.015	0.02	0.002	0.173	4.33	31.394	31.733	31.748	31.748	32.380	G1/31													
2100	G6/01	G6/01 to OUT/01	G6/11,G11/10,G12/10,G13/10,G14/10,G15/10,G16/10,G17/10,G18/10,G19/10,G20/10,G21/10,G22/10,G23/10,G24/10,G25/10		5.00	146	0.75	0.084	0.063	0.063	0.084	26	5.00	136.0	98	4.075	3341		1282	9.505	0.49	825	13.36	0.07	0g 0.017 Do 1.282 Do 825 Flow S/01 made eqv grate flow Flow G2/33 made eqv grate flow Flow G1/31 made eqv grate flow CHART 33 Angle 9 S/Do 25 Du/Do 0.64 Qg/Do 0.75 K 2.10 S/Do 1.89 cor 0.42 Ku 2.52 Kw 2.52 K vals above for stepped pipes as grate flow grate flow decreased by 0.871 from S/01 Routine 2.1 CHART 48 Du/Do 0.64 Qu/Do 0.25 K 1.78 d/Do 2.0 chr1 Qg/Do 0.07 Kw 0.03 d/Do 1.5 chr1 Qg/Do 0.07 Kw 0.03	0.284	1.58	0.447	d/Do 1.03 Interp val for S/Do 0.02 Ku=Kw= 1.80 Combined pipes in line case Join Pipes: G1/30 and S/01 Vel1 1.458 Vel2 1.972 Eq Dia 9.07 Angle 129 Flow 1.87 CHART 33 Angle 0 S/Do 2.5 Du/Do 1.00 Qg/Do 0.07 K 0.44 S/Do 1.22 cor 0.11 Ku 0.55 Kw 0.55 Interpolated Ku= 1.50 Kw= 1.55 K vals step pipes as pipe flow Ku 1.55 Kw 1.55 Averaged Ku 1.58 Kw 1.58	1.58	0.447	0.76	0.073	0.173	4.33	31.258	31.284	31.731	31.731	32.376	31.258	31.284	31.731	31.731	32.376	31.258	31.284	31.731	31.731	32.376	31.258	31.284	31.731	G6/01

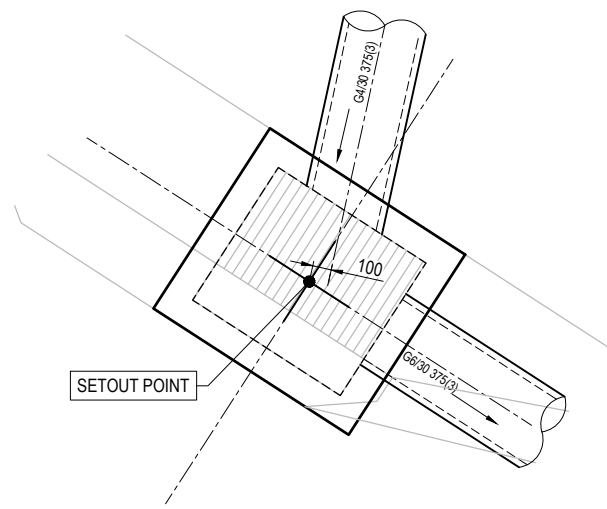
**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *S. Thomas* Date: 21.12.20  
**SCOTT THOMAS** RPEQ No. 04618  
 For and on behalf of PEAKURBAN PTY LTD

REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	17.08.20	MG	MG	AS CONSTRUCTED			AS CONSTRUCTED	AS SHOWN	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 17	STORMWATER DRAINAGE CALCULATIONS TABLE
B	21.12.20	TD	SC	AS CONSTRUCTED					SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE, COLLINGWOOD PARK	PROJECT No. 20-0071 DRAWING No. 113 REVISION B

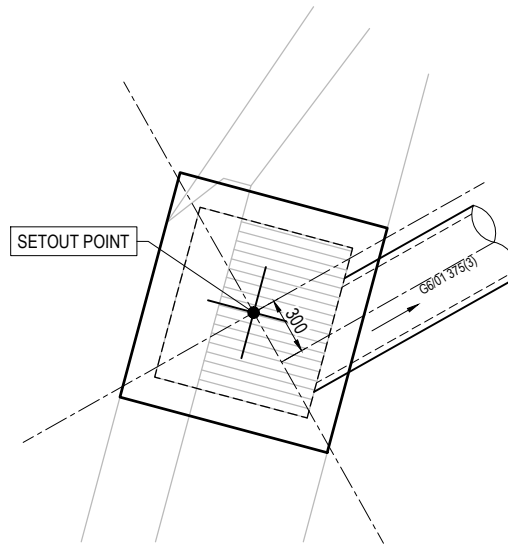




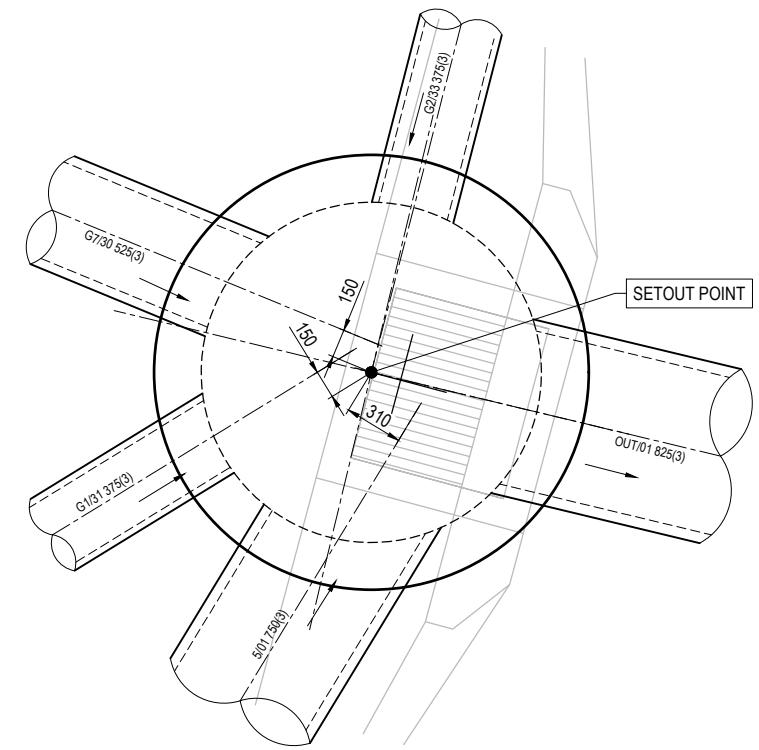
**G4/30 - STD TYPE A GULLY - LIP IN LINE**  
**2.4m LINTEL - ON GRADE**  
 1:20 (A1)  
 1:40 (A3)



**G5/30 - STD TYPE A GULLY - LIP IN LINE**  
**2.4m LINTEL - ON GRADE**  
 1:20 (A1)  
 1:40 (A3)



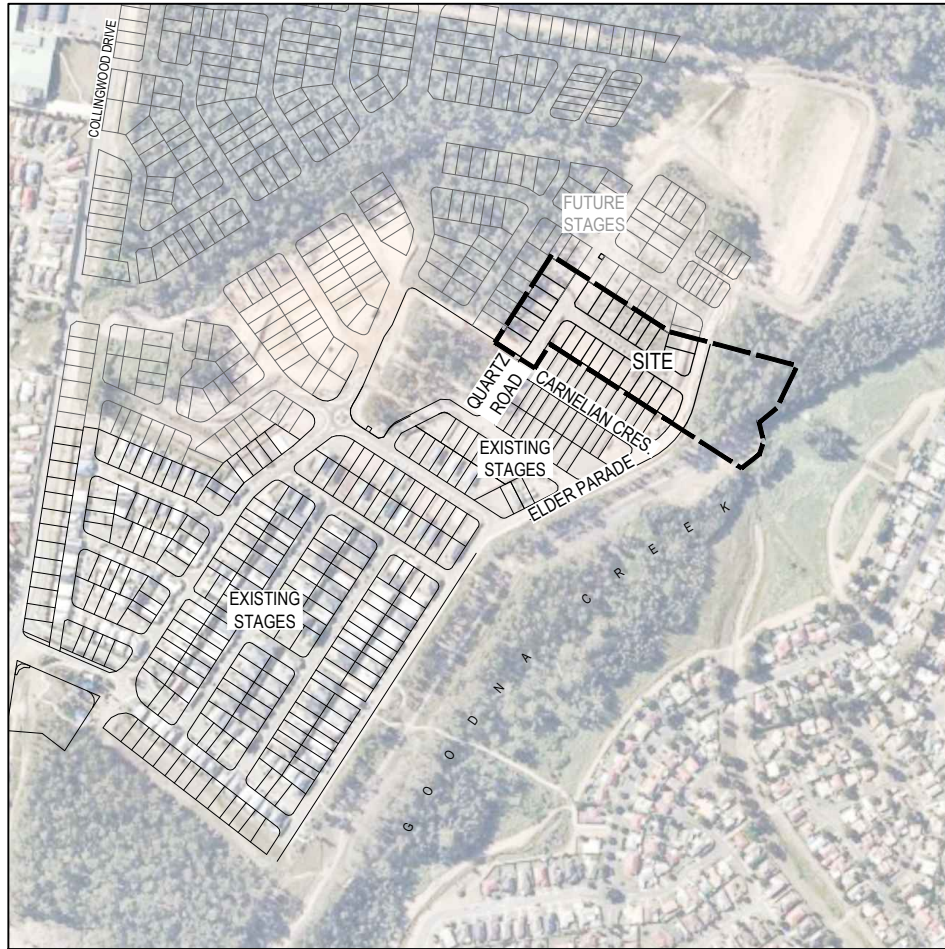
**G1/31 - STD TYPE A GULLY - LIP IN LINE**  
**2.4M LINTEL - ON GRADE**  
 1:20 (A1)  
 1:40 (A3)



**G6/01 - STD TYPE A GULLY - LIP IN LINE**  
**2.4M LINTEL - SAG ON 1800Ø MH**  
 1:20 (A1)  
 1:40 (A3)

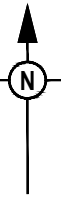
**AS-CONSTRUCTED CERTIFICATION**  
 Signature: *S. Thomas* Date: 21.12.20  
 SCOTT THOMAS RPEQ No. 04618  
 For and on behalf of Peakurban PTY LTD

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	17.08.20	MG	MG	ISSUED FOR CONSTRUCTION		<b>AS CONSTRUCTED</b>	1:20 0.2 0 0.2 0.4 0.6 0.8 1 A1 1:40	<b>CANBERRA ESTATES</b> <b>CONSORTIUM NO. 36 PTY LIMITED</b>	<b>WOODLINKS VILLAGE - STAGE 17</b>	<b>STORMWATER DRAINAGE</b> <b>STRUCTURE DETAILS</b>
B	21.12.20	TD	SC	AS CONSTRUCTED						
					DESIGN	APPROVED SCOTT THOMAS RPEQ 04618		ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE, COLLINGWOOD PARK	PROJECT No. <b>20-0071</b>
						FOR AND ON BEHALF OF PEAKURBAN PTY LTD	ENQUIRIES@PEAKURBAN.COM.AU			DRAWING No. <b>114</b>
										REVISION <b>B</b>



**LOCALITY PLAN**  
1:4000 (A1)  
1:8000 (A3)

NAME OF ESTATE		WOODLINKS STAGE 17
SUBDIVIDER		CANBERRA ESTATES
URBAN UTILITIES APPLICATION No.		20-PNT-46309
URBAN UTILITIES DELEGATE APPROVAL DATE		9/07/2020
DRAWING/PLAN No.		20-0071-300-302
No. OF ALLOTMENTS		29
AREA		2.60ha
LENGTH	DN110 PE100	<del>66m</del> 69m
OF SEWERS	DN160 PE100	<del>426m</del> 423m



**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 SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.
- SOIL**
- TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
  - CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
- CREEK CROSSINGS**
- SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
  - APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
  - NO SOIL SHALL BE STOCKPILED WITHIN 5m OF THE CREEK.
- REHABILITATION**
- PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
  - PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

**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.
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- 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 SUPERINTENDENT OF ANY DISCREPANCIES BETWEEN ACTUAL AND PROPOSED DESIGN LEVELS.
- 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.

**SEWERAGE NOTES**

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT WSAA GRAVITY SEWERAGE 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 CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE URBAN UTILITIES. SEWERAGE SYSTEM.
- ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE SUPERVISED BY URBAN UTILITIES. AT THE DEVELOPER'S COST.
- ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
- EACH ALLOTMENT SHALL BE SERVED BY A DN110 PE PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN160 PE PROPERTY CONNECTION SHALL BE PROVIDED.
- PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
- PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF 750mm.
- WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S.1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY URBAN UTILITIES. UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
- WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CLAUSE 9.10 OF THE SEQ SEWER CODE AND DRGS SEQ-SEW-1206-1 AND 1207-1.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
- SEWERS SHALL BE DISUSED/ABANDONED IN ACCORDANCE WITH PROCEDURE SET OUT IN THE GRAVITY SEWER CODE.
- BENCH MARK AND LEVELS TO AHD.
- THE DESIGN HAS BEEN UNDERTAKEN TO COMPLY WITH CURRENT URBAN UTILITIES. STANDARDS AND THE WSAA GRAVITY SEWERAGE CODE OF AUSTRALIA SPECIFICATIONS AND STANDARD - SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION
- CONSTRUCT EMBEDMENT AND TRENCHFILL TO SEQ-SEW-1200-2, 1201-1 TO 1205-1 (TYPE 4 SUPPORT UNLESS GEOTECHNICAL INVESTIGATIONS DEMONSTRATE THAT TYPE 3 SUPPORT IS ADEQUATE. TYPE 4 SUPPORT TO BE USED WHERE MIGRATORY NATIVE SOILS (OR SAND OR FINE CLAY MATERIAL) ARE ENCOUNTERED ADJACENT TO THE EMBEDMENT ZONE AND SINGLE SIZE AGGREGATE IS USED) AND COUNCIL STANDARD FOR ROADWAYS, WHICHEVER IS MORE ONEROUS.
- CONSTRUCT BULKHEADS AND TRENCH STOPS TO SEQ-SEW-1206-1 AND TRENCH DRAINS TO SEQ-SEW-1207-1.
- CONSTRUCT MH/S TO SEQ-SEW-1301-1 TO 1301-7 (TYPE G), 1301-8 TO 1301-13 (TYPE F), 1301-14 TO 1301-25 (TYPE X), 1301-26, 1304-1, 1305-1, 1307-4 (STUB CUT IN), 1313-1 (CONNECTION) AND 1502-1 (INSERTION MH AND REPAIR SYSTEM), 1301-27 (LADDERS).
- CONSTRUCT MAINTENANCE SHAFTS AND TERMINAL ENTRY POINTS TO SEQ-SEW 1315-1, 1316-1 AND 1502-1 (INSERT MS).
- INSTALL MH/MS TYPE B COVERS TO SEQ-SEW-1308-2 TO 1308-7.
- INSTALL MH/MS TYPE D COVERS TO SEQ-SEW-1308-8 TO 1308-11.
- INSTALL DETECTABLE MARKER TAPE ON ALL SEWER MAINS AND PROPERTY CONNECTIONS.

**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	ALTERATION TO EXISTING MH BENCHING REQUIRED (Y/N)
1 (A)	0.50m FROM EXISTING STUB, CONSTRUCTOR TO LAY NEW RETICULATION SEWERS. AFTER CLEANSING, TESTING AND INSPECTION, NOTIFY URBAN UTILITIES.	DN160	EX7/1	G	B		32.630	-	29.820	2.810	N
1 (B)	CONSTRUCTOR, UNDER URBAN UTILITIES. SUPERVISION, TO REMOVE TEMPORARY END CAP ON EXISTING STUB AND MAKE LIVE CONNECTION AFTER SUCCESSFUL 'ON MAINTENANCE' INSPECTION.										

**LIVE WORKS NOTES:**

- 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.
- LIVE WORKS CANNOT COMMENCE UNTIL ALL RELEVANT TEST CERTIFICATES HAVE BEEN PROVIDED AND ACCEPTED BY URBAN UTILITIES.

**DETAILS OF PROPOSED SEQ CODE VARIATIONS**

No.	SEQ CODE CLAUSE	DETAILS FOR PROPOSED VARIATION	REASONS OF PROPOSED VARIATION
1	6.5.2	LOT 502 HOUSE CONNECTIONS PROVIDED AT 6.25m OFFSET FROM LOW SIDE, SIDE BOUNDARY	DRIVEWAY LOCATIONS KNOWN, CONNECTIONS LOCATED TO BE CLEAR OF DRIVEWAYS
2	6.5.2	LOT 490 HOUSE CONNECTIONS PROVIDED AT 7.00m OFFSET FROM LOW SIDE, SIDE BOUNDARY	DRIVEWAY LOCATIONS KNOWN, CONNECTIONS LOCATED TO BE CLEAR OF DRIVEWAYS
3	6.5.2	LOT 590 HOUSE CONNECTIONS PROVIDED AT 9.00m OFFSET FROM LOW SIDE, SIDE BOUNDARY	DRIVEWAY LOCATIONS KNOWN, CONNECTIONS LOCATED TO BE CLEAR OF DRIVEWAYS
4	5.3.2	DUAL SEWERAGE ALIGNMENT	IPSWICH CITY COUNCIL HAVE CONFIRMED THEY HAVE NO OBJECTIONS TO THE DUAL SIDED SEWER PROPOSAL AS DETAILED IN THE CORRESPONDENCE PROVIDED TO URBAN UTILITIES ON 17.06.20.
5	7.3.2	SEWERAGE LINE 7 'END OF LINE' EXTENDS BEYOND 30.0m	AVOIDING USING REDUNDANT INFRASTRUCTURE IN SPACE OF FUTURE DRIVEWAYS. LINE 7 IS TO PROVIDE FUTURE CONNECTION TO UPSTREAM DEVELOPMENT .
6		SEWERAGE MANHOLE 7/6 PROVIDED AT 2.50m OFFSET FROM LOW SIDE, SIDE BOUNDARY	TO PROVIDE CLEARANCE FOR ELECTRICAL PILLAR-BOX AND UNGROUNDED ELECTRICAL TO STREET LIGHT.
7		SEWERAGE STRUCTURE 4/6, 1/6 PROVIDED ON NON-STANDARD ALIGNMENT	TO PROVIDE CLEARANCE FOR ELECTRICAL PILLAR-BOX AND TO COMPLY WITH ANGLE REQUIREMENTS

**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: 21.12.20

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.

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

**URBAN UTILITIES REFERENCE NUMBER: 20-PNT-46309**

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	27.08.20	AC	SC	ISSUED FOR CONSTRUCTION				CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 17	SEWERAGE COVER PLAN
B	21.12.20	TD	SC	AS CONSTRUCTED			AS SHOWN			
										DRAWING No. <b>300</b>
										REVISION <b>B</b>

**AS CONSTRUCTED**

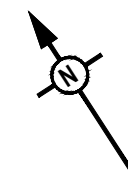


AS SHOWN

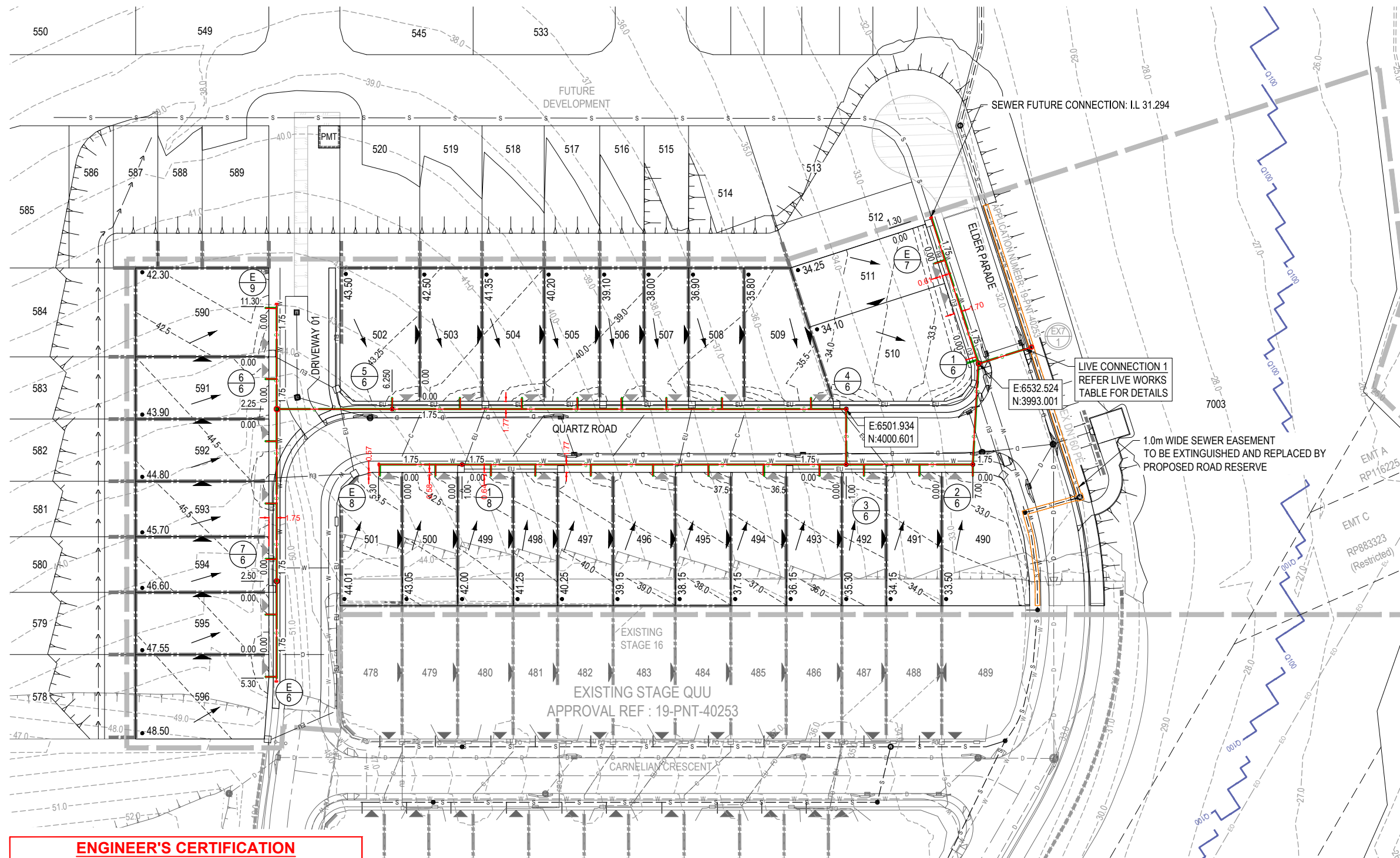
FOR AND ON BEHALF OF PEAKURBAN PTY LTD

ENQUIRIES@PEAKURBAN.COM.AU





LEGEND	
	PROPOSED STAGE BOUNDARY
	PROPOSED SEWERAGE MAIN
	EXISTING SEWERAGE MAIN
	INDICATIVE FUTURE SEWERAGE MAIN
	PROPOSED SEWER EASEMENT
	Q100 STORMWATER FLOOD LEVEL
	SEWER LOT CONTROL SURFACE LEVEL
	INDICATIVE DRIVEWAY LOCATION
	ZERO LOT BOUNDARY
	PROPOSED SURFACE CONTOUR
	EXISTING SURFACE CONTOUR
	EXISTING EASEMENT TO BE EXTINGUISHED
	PROPOSED STORMWATER DRAINAGE PIPE
	EXISTING STORMWATER DRAINAGE PIPE
	PROPOSED WATER MAIN
	EXISTING WATER MAIN
	PROPOSED RETAINING WALL
	EXISTING RETAINING WALL
	PROPOSED ELECTRICAL CABLE U/G
	EXISTING ELECTRICAL CABLE U/G
	EXISTING ELECTRICAL CABLE O/H
	EXISTING FIBRE OPTIC CABLE



LIVE CONNECTION 1  
REFER LIVE WORKS  
TABLE FOR DETAILS

1.0m WIDE SEWER EASEMENT  
TO BE EXTINGUISHED AND REPLACED BY  
PROPOSED ROAD RESERVE

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RPEQ (signature) RPEQ No. 04618 Date: 21.12.20

**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.

**RP DESCRIPTION**  
LOT 5007 ON SP312157

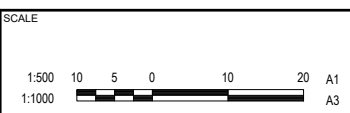
**DATUM LEVEL AND LOCATION:**  
P.M. 110122 RL 40.320 AHD

**URBAN UTILITIES REFERENCE NUMBER: 20-PNT-46309**

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A	27.08.20	AC	SC	AS CONSTRUCTED				1:500	CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED	WOODLINKS VILLAGE - STAGE 17	SEWERAGE LAYOUT PLAN
B	21.12.20	TD	SC	AS CONSTRUCTED				1:1000	ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE, COLLINGWOOD PARK	PROJECT No. 20-0071 DRAWING No. 301 REVISION B

**AS CONSTRUCTED**

DESIGN APPROVED  
SCOTT THOMAS RPEQ 04618



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

ASSOCIATED CONSULTANT  
SAUNDERS HAVILL GROUP  
PH: 1300 123 744

**WOODLINKS VILLAGE - STAGE 17**

COLLINGWOOD DRIVE,  
COLLINGWOOD PARK

**SEWERAGE LAYOUT PLAN**

PROJECT No. 20-0071  
DRAWING No. 301  
REVISION B



STRUCTURE / 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

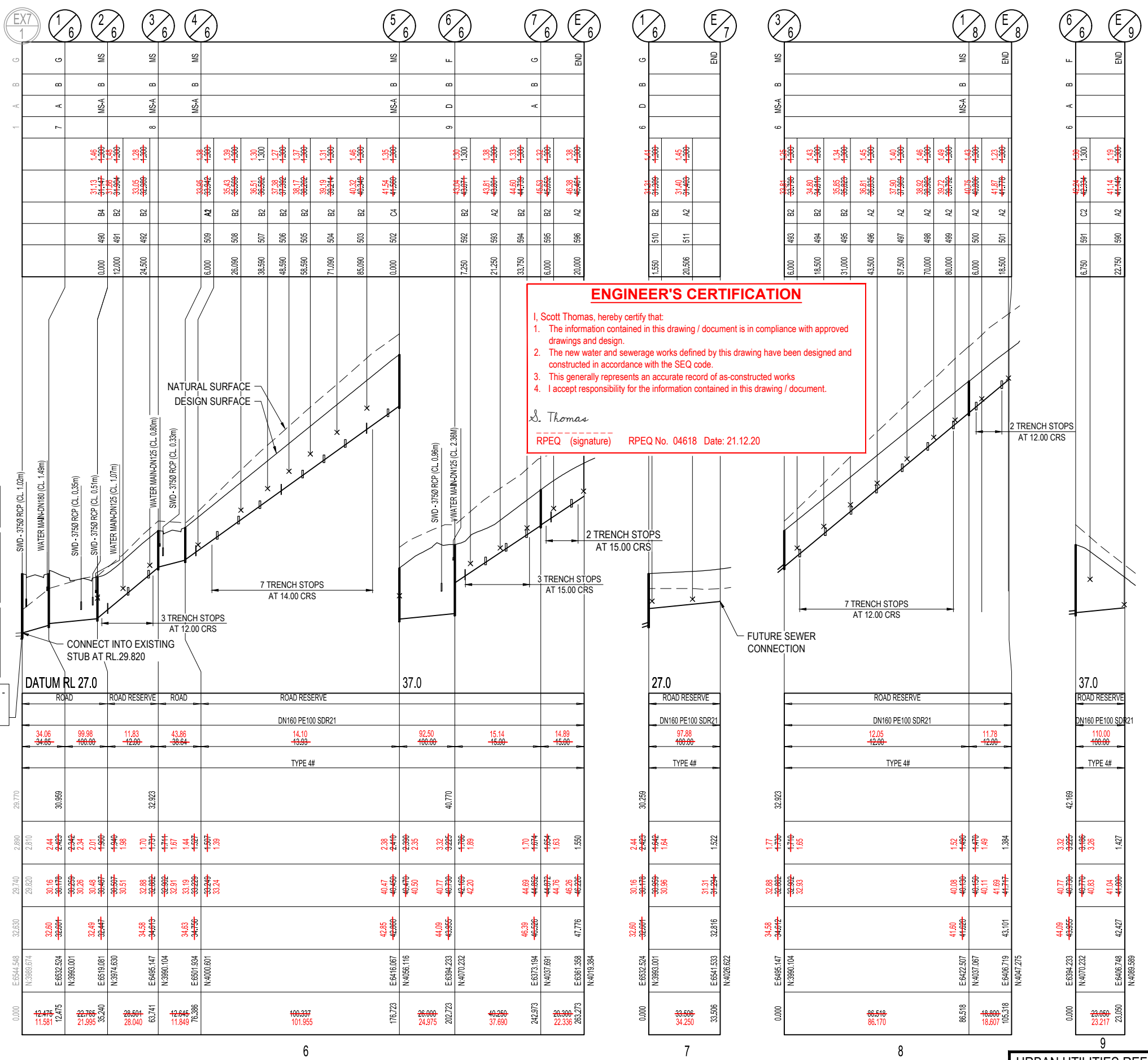
**NOTE: PE LINING OF MANHOLES:**  
MAINTENANCE HOLES ≥ 1500Ø IN DIA OR ≥ 4.0m IN DEPTH,  
REQUIRE PE LINED PROTECTIVE COATING

**# 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 (1/X)
EMBEDMENT
JUNCTION INVERT LEVEL
DEPTH TO INVERT
SEWER INVERT LEVEL
DESIGN SURFACE LEVEL
SETOUT
RUNNING CHAINAGE

LIVE CONNECTION 1 -  
REFER LIVE WORKS  
TABLE FOR DETAILS



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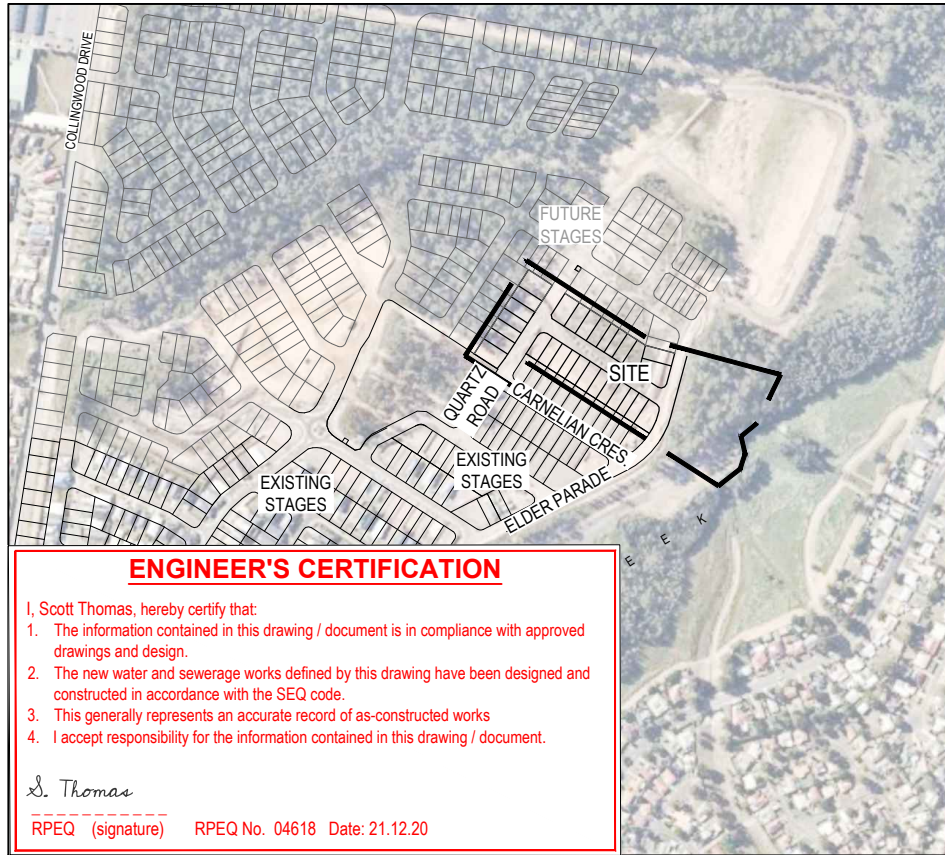
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RPEQ (signature) RPEQ No. 04618 Date: 21.12.20

LINE	6	7	8	9
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<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>27.08.20</td><td>AC</td><td>SC</td><td>ISSUED FOR CONSTRUCTION</td></tr> <tr><td>B</td><td>21.12.20</td><td>TD</td><td>SC</td><td>AS CONSTRUCTED</td></tr> </table>	REV	DATE	DESIGN	DRAWN	REVISION DETAILS	A	27.08.20	AC	SC	ISSUED FOR CONSTRUCTION	B	21.12.20	TD	SC	AS CONSTRUCTED	<table border="1"> <tr><th>DRAWN</th><th>STATUS</th></tr> <tr><td>AS CONSTRUCTED</td><td></td></tr> </table>	DRAWN	STATUS	AS CONSTRUCTED		<p>DEVELOPMENT ENGINEERS • ADVISORS</p> <p>ENQUIRIES@PEAKURBAN.COM.AU</p>	<p>SCALE</p> <p>1:1000 10 0 10 20 30 40 50 A1</p> <p>1:2000 HORIZONTAL A3</p> <p>1:100 2 1 0 2 4 A1</p> <p>1:200 VERTICAL A3</p>	<p>CLIENT</p> <p><b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b></p> <p>ASSOCIATED CONSULTANT  SAUNDERS HAVILL GROUP  PH: 1300 123 744</p>	<p>PROJECT NAME</p> <p><b>WOODLINKS VILLAGE - STAGE 17</b></p> <p>COLLINGWOOD DRIVE,  COLLINGWOOD PARK</p>	<p>DRAWING TITLE</p> <p><b>SEWERAGE LONGITUDINAL SECTIONS</b></p> <p>PROJECT No. <b>20-0071</b></p> <p>DRAWING No. <b>302</b></p> <p>REVISION <b>B</b></p>
REV	DATE	DESIGN	DRAWN	REVISION DETAILS																					
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URBAN UTILITIES REFERENCE NUMBER: 20-PNT-46309



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**WATER RETICULATION NOTES**

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- 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.
- 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 STANDARD DRAWING FOR THE SEQ-SP.
- ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH THE SEQ-SP'S 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 THE SEQ-SP.
- TEST/CHLORINATION POINTS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING No. SEQ-WAT-1410-1.
- 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.
- THE DESIGN HAS BEEN UNDERTAKEN TO COMPLY WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE AND URBAN UTILITIES STANDARDS.
- CONSTRUCT EMBEDMENT AND TRENCHFILL TO SEQ-WAT-1200-2, 1201-1 TO SEQ-WAT-1204-1 ANS COUNCIL STANDARDS FOR ROADWAY CROSSINGS, WHICHEVER IS MORE ONEROUS.
- PROVIDE BULKHEADS/TRENCHSTOPS 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, AND TRANSITIONS TO UNRESTRAINED PIPEWORK TO SEQ-WAT-1205-1 AND 1206-1.
- CONSTRUCT SMALL DIAMETER PROPERTY SERVICES TO SEQ-WAT-1107-1 AND 1107-3.
- 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 WHERE NECESSARY. SCOURS WITHIN IPSWICH CITY COUNCIL REGION MUST DISCHARGE INTO AN OPEN STORMWATER GULLY PIT, NOT TO THE INVERT OF KERB AND CHANNEL. DISCHARGE TO KERB AND CHANNEL VIA A STANDARD KERB ADAPTOR THROUGH THE FACE OF THE KERB IS NOT ACCEPTED BY QUEENSLAND URBAN UTILITIES.
- INSTALL PAVEMENT MARKERS TO SEQ-WAT-1300-1 AND 1300-2.
- CONSTRUCT TEST POINTS TO SEQ-WAT-1410-1 AT THE ENDS OF ALL NEW MAINS BEFORE THE SCOUR AND WHERE REQUIRED FOR COMMISSIONING PURPOSES. QUEENSLAND 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 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.
- AC MAINS SHALL BE REPLACED COLLAR-COLLAR.
- 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.
- PROVIDE DN40PE (OR DN32 CU) WATER SERVICES FOR ROAD CROSSINGS SERVICING TWO DWELLINGS. PROVIDE DN32PE (OR DN25 CU) 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 32mm ID.

**LOCALITY PLAN**  
 1:4000 (A1)  
 1:8000 (A3)

NO	SIZE	LOT NUMBERS
17	DN25PE	490-501, 510-511, 590-594
12	DN32PE	502-509, 595-596
-	DN40PE	-

NOTE:  
 SERVICE AND METER TO LOTS 595, 596 WILL CONNECT TO EXISTING WATER MAIN AND SHALL BE INSTALLED AS LIVE WORKS

**LIVE CONNECTIONS**

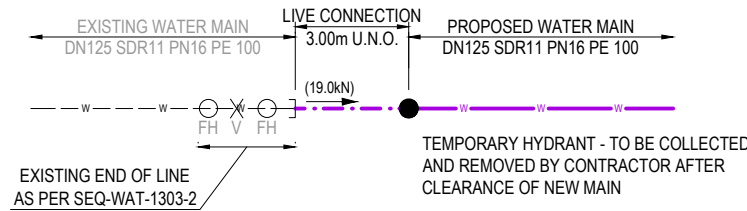
CONNECTION 1	
STREET	QUARTZ STREET
LOCATION	CH230.464 RIGHT SIDE
LENGTH	3.00m
TYPE OF MAIN	DN125 PE
DATE COMMENCED	DATE COMPLETED
SIGNATURE	

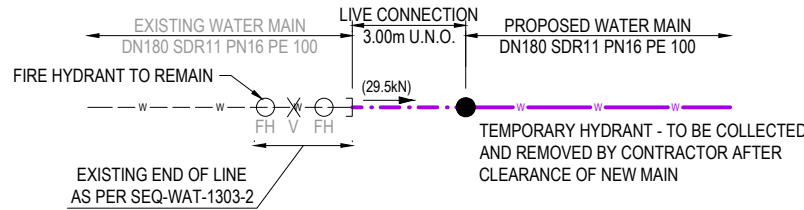
CONNECTION 2	
STREET	ELDER PARADE
LOCATION	CH301.541 LEFT SIDE
LENGTH	3.00m
TYPE OF MAIN	DN180 PE
DATE COMMENCED	DATE COMPLETED
SIGNATURE	

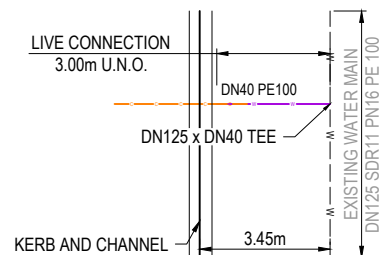
CONNECTION 3	
STREET	QUARTZ STREET
LOCATION	CH213.464 LEFT SIDE
LENGTH	3.00m
TYPE OF MAIN	DN40 PE
DATE COMMENCED	DATE COMPLETED
SIGNATURE	



**LIVE WORKS CONNECTION 1**  
 1:100 (A1)  
 1:200 (A3)



**LIVE WORKS CONNECTION 2**  
 1:100 (A1)  
 1:200 (A3)



**LIVE WORKS CONNECTION 3**  
 1:100 (A1)  
 1:200 (A3)

ASSET REGISTER - WATER RETICULATION					
ESTATE/STAGE		WOODLINKS STAGE 17			
SITE ADDRESS		COLLINGWOOD DRIVE			
SP FILE/APPLICATION		20-PNT-46309			
URBAN UTILITIES DELEGATES APPROVAL DATE		9/07/2020			
CLIENT		CANBERRA ESTATES			
DRAWING/PLAN No.		20-0071-303-304			
MAINS	DIAMETER	MATERIAL		LENGTH	
		DESIGN	CONST	DESIGN	CONST
	DN125	PE100 PN16	PE100 PN16	260	287
DN180	PE100 PN16	PE100 PN16	94	90	
SERVICES	DIAMETER	MATERIAL		LENGTH	
		DESIGN	CONST	DESIGN	CONST
	DN25	PE100 PN16	PE100 PN16	43	50
	DN32	PE100 PN16	PE100 PN16	24	30
DN40	PE100 PN16	PE100 PN16	67	51	
METERS	DIAMETER	NUMBER			
	200	29	29		

**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.

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

**DETAILS OF PROPOSED SEQ CODE VARIATIONS**

No.	SEQ CODE CLAUSE	DETAILS FOR PROPOSED VARIATION	REASONS OF PROPOSED VARIATION
1	5.11.5	LOT 590 SERVICE METER LOCATED 13.60m OFF SIDE BOUNDARY	TO BE CLEAR OF FUTURE DRIVEWAY AND ELECTRICAL PILLAR-BOX

**URBAN UTILITIES REFERENCE NUMBER: 20-PNT-46309**

REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	27.08.20	AC	SC	AS CONSTRUCTED							
B	21.12.20	TD	SC	AS CONSTRUCTED							

<b>AS CONSTRUCTED</b>		<b>AS SHOWN</b>	
DESIGN APPROVED SCOTT THOMAS	RPEQ 04618	<b>PEAKURBAN</b> DEVELOPMENT ENGINEERS - ADVISORS	
FOR AND ON BEHALF OF PEAKURBAN PTY LTD		ENQUIRIES@PEAKURBAN.COM.AU	
<b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b>		<b>SAUNDERS HAVILL GROUP</b> PH: 1300 123 744	
<b>WOODLINKS VILLAGE - STAGE 17</b>		<b>COLLINGWOOD DRIVE, COLLINGWOOD PARK</b>	
PROJECT No. <b>20-0071</b>	DRAWING No. <b>303</b>	REVISION <b>B</b>	



**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*

RPEQ (signature) RPEQ No. 04618 Date: 21.12.20

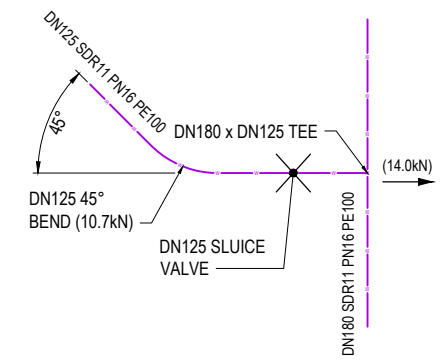
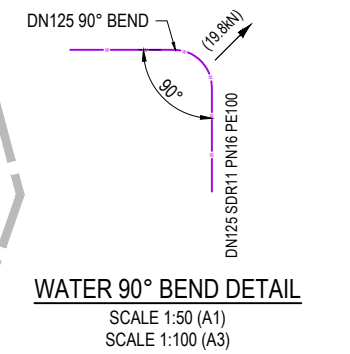
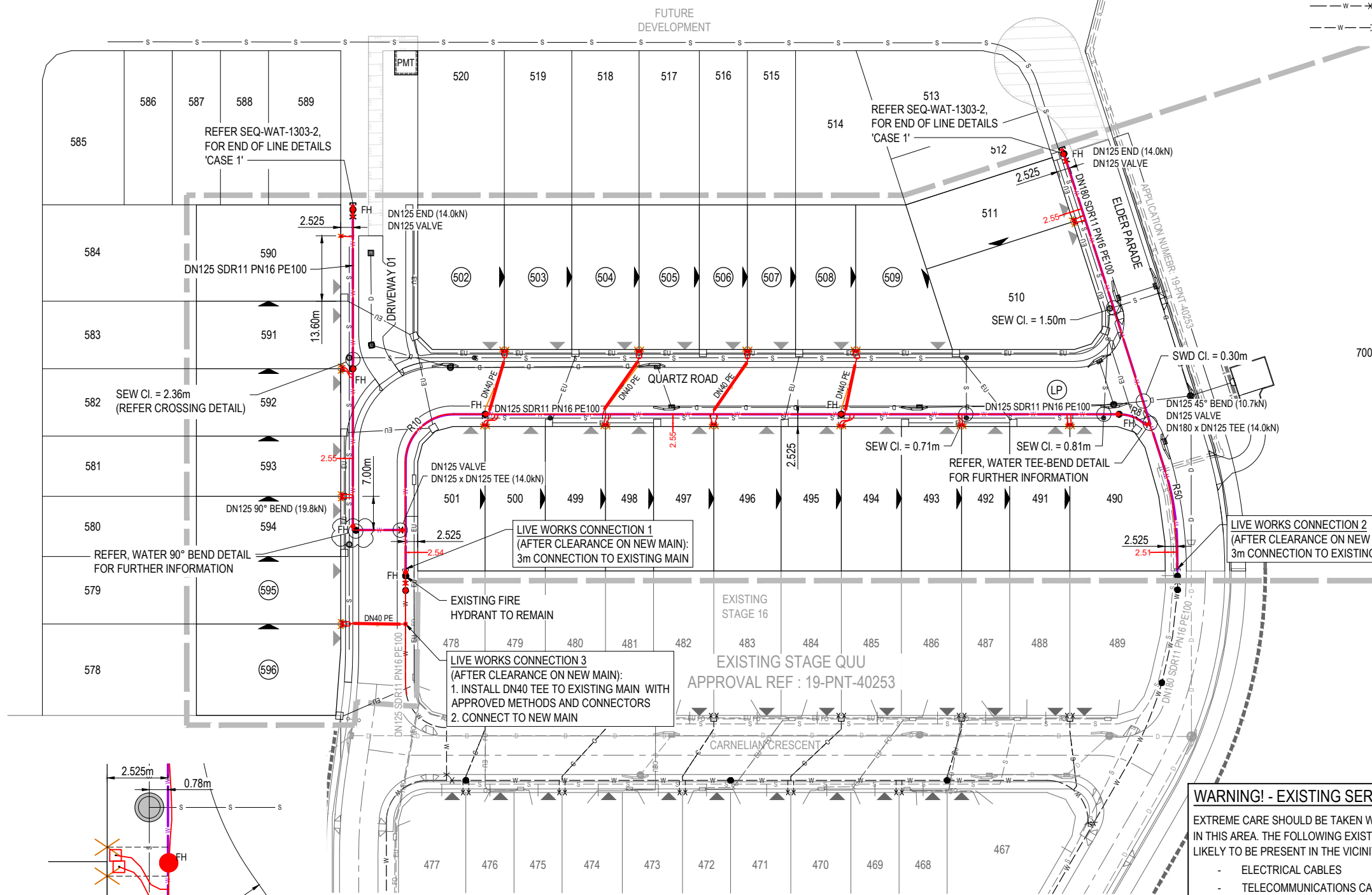
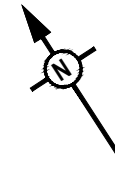
**NOTE:**  
 WATER SERVICES AND METERS AT ZERO LOT BOUNDARY SHALL BE CLEAR OF DRIVEWAY.

**WATER FITTINGS LEGEND**

- PROPOSED:
- FIRE HYDRANT
  - ISOLATION VALVE
  - DEAD END
- EXISTING:
- FIRE HYDRANT
  - ISOLATION VALVE
  - DEAD END

**LEGEND**

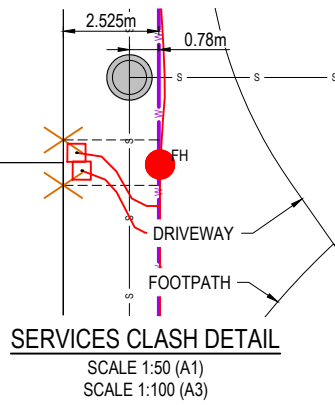
- PROPOSED STAGE BOUNDARY
- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER CONDUIT
- EXISTING WATER CONDUIT
- HIGH POINT / LOW POINT
- INDICATIVE DRIVEWAY LOCATION
- ZERO LOT BOUNDARY
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- EXISTING FIBRE OPTIC CABLE U/G
- EXISTING GAS MAIN
- PROPOSED SEWER MAIN
- EXISTING SEWER MAIN
- PROPOSED ELECTRICAL CABLE U/G
- EXISTING ELECTRICAL CABLE U/G
- EXISTING ELECTRICAL CABLE O/H
- EXISTING FIBRE OPTIC CABLE
- FIRE HYDRANT COVERAGE AREA



**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.



**RP DESCRIPTION**  
 LOT 5007 ON SP312157  
**DATUM LEVEL AND LOCATION:**  
 P.M. 110122 RL 40.320 AHD  
**URBAN UTILITIES REFERENCE NUMBER: 20-PNT-46309**

REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	27.08.20	AC	SC	ISSUED FOR CONSTRUCTION			<b>AS CONSTRUCTED</b>	1:500 1:1000	<b>CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED</b>	<b>WOODLINKS VILLAGE - STAGE 17</b>	<b>WATER RETICULATION LAYOUT PLAN</b>
B	06.10.20	AC	SC	FIRE HYDRANT ADDED					ASSOCIATED CONSULTANT SAUNDERS HAVILL GROUP PH: 1300 123 744	COLLINGWOOD DRIVE, COLLINGWOOD PARK	PROJECT No. <b>20-0071</b>
C	21.12.20	TD	SC	AS CONSTRUCTED							DRAWING No. <b>304</b>
											REVISION <b>C</b>



**LEGEND**

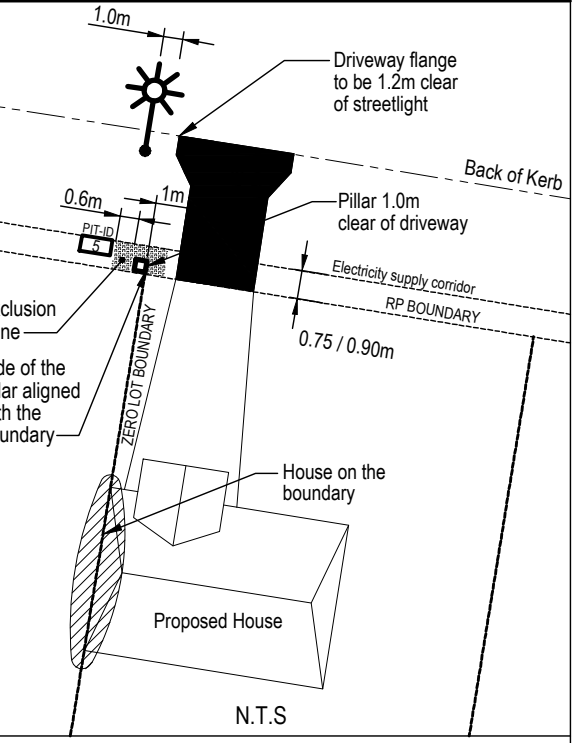
- EXISTING OVERHEAD CABLE
- PROPOSED OVERHEAD CABLE
- EXISTING UNDERGROUND CABLE
- PROPOSED UNDERGROUND CABLE
- E - PROPOSED ELECTRICAL SERVICE CONDUIT
- ET - PROPOSED ELECTRICAL & COMMUNICATION SERVICE CONDUITS
- POLE TRANSFORMER
- PADMOUNT TRANSFORMER
- HV POLE
- HV / LV POLE
- LV POLE
- HV UNDERGROUND POLE TERMINATION
- LV UNDERGROUND POLE TERMINATION
- AERIAL STAY
- GROUND STAY
- EARTH
- EXISTING PILLAR
- PROPOSED PILLAR
- LINK PILLAR
- CONDUIT / CABLE CROSS-SECTION
- LED STREET LIGHT
- WM X WATER METER (BY OTHERS)
- PROPOSED DRIVEWAY LOCATION
- PROPOSED ZERO LOT BOUNDARY

ALL KERB OUTLET PIPES TO BE 600mm CLEAR OF THE PROPOSED ELECTRICAL PILLARS

WHERE CROSS-ROAD ELECTRICITY CONDUITS RUN PARALLEL TO OTHER SERVICES OR CONDUITS, A MINIMUM SEPARATION OF 1.0m MUST BE MAINTAINED.

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

**PILLARS / PITS ON ZERO LOT BOUNDARIES**



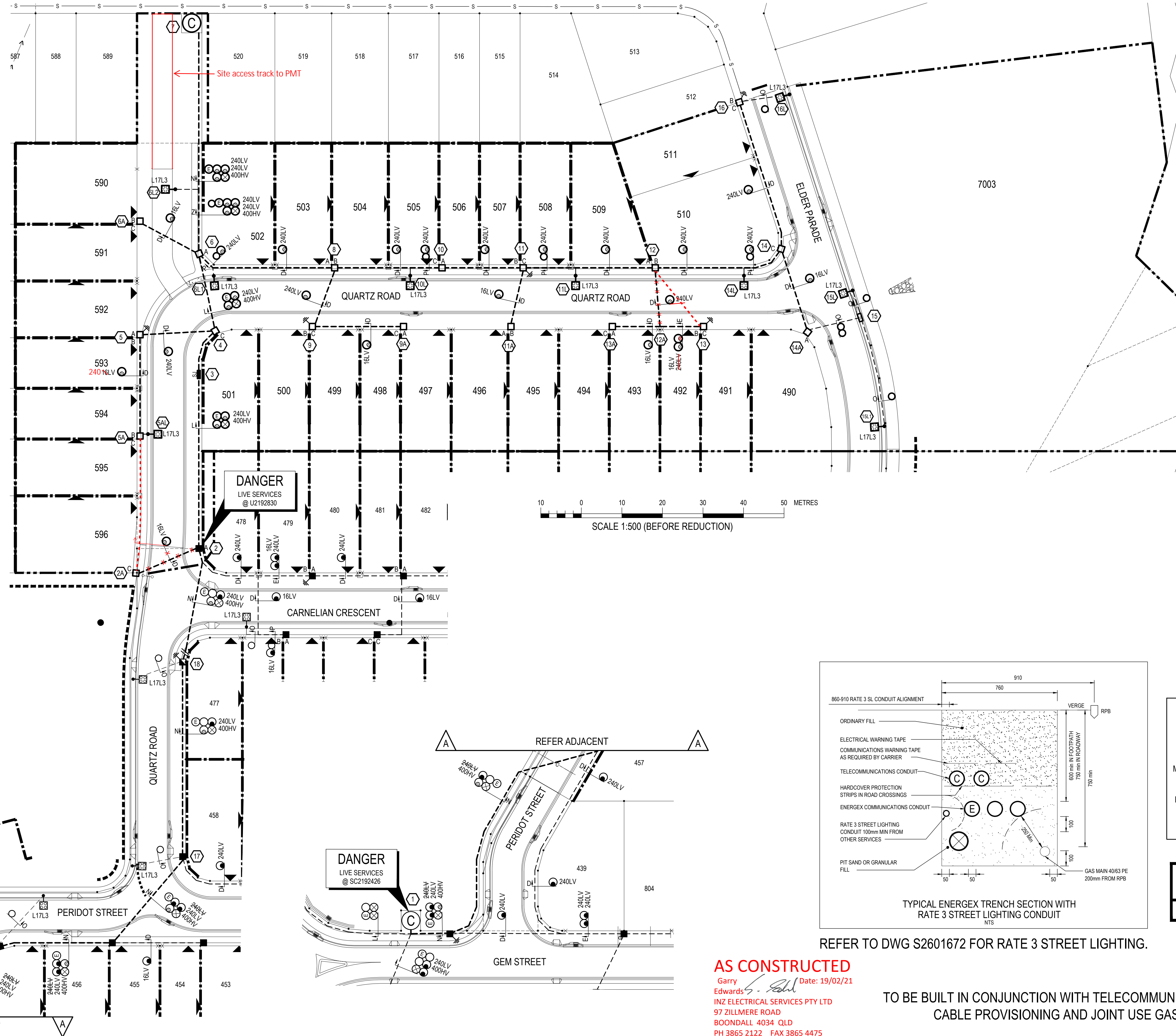
**REQUIREMENTS FOR ELECTRICAL, GAS & COMMUNICATIONS**

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 shall not clash with future driveways

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



**GENERAL NOTES**

1. NO OTHER SERVICES TO ENCRUCH INTO THE STANDARD UNDERGROUND ELECTRICITY CORRIDOR OF 0mm - 900mm FROM RPA.
2. ALL CABLES TO BE INSTALLED IN CONDUIT WITHIN THE STANDARD ELECTRICITY ALIGNMENT ALLOCATED BY THE LOCAL COUNCIL. WHERE CONDUITS VARY FROM THIS AND AT FOOTPATH CROSSING PROTECTIVE STRIP IS TO BE INSTALLED. WHERE PRACTICAL ELECTRICITY CABLES SHALL NOT BE CLOSER THAN 250mm TO THE REAL PROPERTY BOUNDARY.
3. A, B OR C WHEN SHOWN BESIDE LV PILLARS DENOTES SERVICE PHASING.
4. THE CONTRACTOR SHALL MEASURE ACTUAL CABLE LENGTHS REQUIRED ON SITE AFTER INSTALLATION OF CONDUITS THEN NOTIFY ENERGEX/SUPPLIER WHEN CONFIRMING CABLE ORDER.
5. ALL BENDS INSTALLED ON 80mm, 100mm AND 125mm RETICULATION CONDUITS MUST BE 1830mm RADIUS UNLESS OTHERWISE SPECIFIED.
6. CONTRACTOR TO SUPPLY ALL LABELS AND SITE ID NUMBERS TO ENERGEX SPECIFICATION.
7. WHEN CROSS ROAD CONDUIT FINISHES OPPOSITE A TRUNCATION PEG, PROPERTY SIDE OF TRENCH TO BE 300mm ALIGNMENT FROM PEG.
8. CIVIL CONTRACTOR TO INSTALL ALL CROSS ROAD CONDUITS.
9. CO-ORDINATE CONDUIT INSTALLATION WITH COMMUNICATIONS CARRIER CONTRACTORS.
10. ELECTRICITY PILLARS TO HAVE 600mm EXCLUSION ZONE FROM ALL OTHER SERVICES.

**CONSTRUCTION CONTRACTOR**

THE CONTRACTOR SHALL BE RATED BY ENERGEX FOR THE FOLLOWING PROCESS.

- WCS 2 - UNDERGROUND CONSTRUCTION
- WCS 31 - COMMISSIONING AND OPERATION OF THE NETWORK
- WCS 34 - EARTHING SYSTEMS
- WCS 61 - UNDERGROUND CIVIL CONSTRUCTION

**STANDARDS AND SPECIFICATIONS**

THIS WORKS PLAN IS TO BE READ IN CONJUNCTION AND COMPLY WITH THE FOLLOWING ENERGEX MANUALS AND SPECIFICATIONS

- UNDERGROUND DISTRIBUTION CONSTRUCTION MANUAL
- NETWORK LABELLING AND SIGNAGE MANUAL

CONSUMER'S INSTALLATION SHALL COMPLY WITH AS/NZS 3000:2018 - SAA WIRING RULES.

FOR DETAILS OF TRENCH CROSS-SECTIONS, REFER TO ENERGEX UNDERGROUND DISTRIBUTION CONSTRUCTION MANUAL.

**ON SITE SERVICES CHECKS**

UNDERGROUND SERVICES SHOWN ON THIS WORKS PLAN IN THE VICINITY OF PROPOSED EXCAVATION WORKS HAVE BEEN TAKEN FROM ASSET OWNER'S PAPER RECORDS AND ARE INDICATIVE ONLY.

THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF DAMAGE TO ANY EXISTING UNDERGROUND ASSETS CAUSED BY HIS WORKS AND THE RE-ESTABLISHMENT OF ANY SURVEY MARKS DISLODGED.

THE CONTRACTOR SHALL REQUEST ON-SITE IDENTIFICATION AND LOCATION OF EXISTING BURIED SERVICES FROM THE QUEENSLAND DIAL BEFORE YOU DIG SERVICE - PHONE: 1100 WEB: www.1100.com.au (A MINIMUM OF TWO DAYS NOTICE IS REQUIRED)

SEWERAGE, STORMWATER, GAS AND WATER PLANS FOR THE SITE MAY BE OBTAINED ON REQUEST FROM THE PROJECT SERVICE SUPERVISOR.

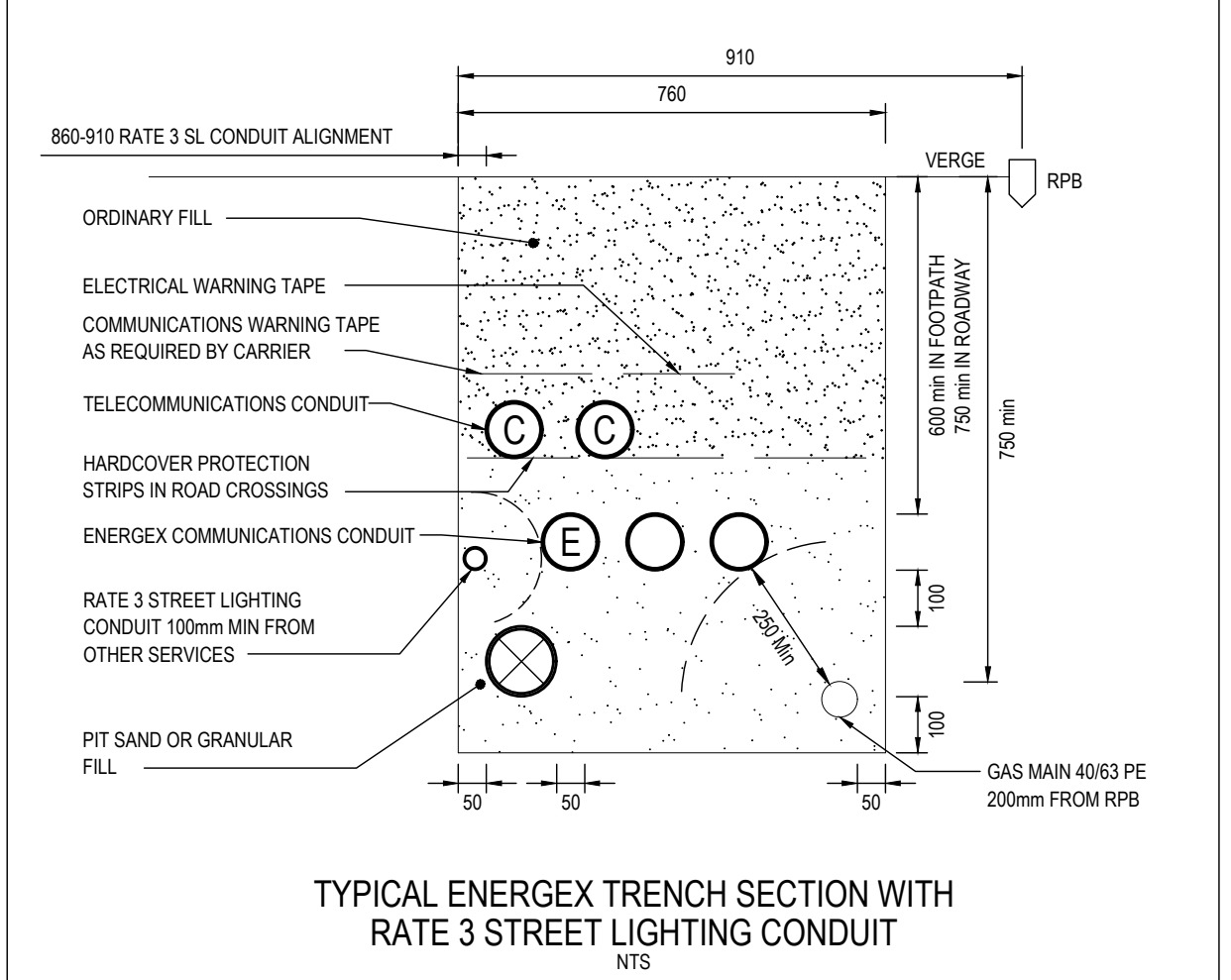
NO NON-ENERGEX ASSETS TO BE INSTALLED WITHIN 600mm PILLAR EXCLUSION ZONE.

QUU REQUIRE 1.1m CLEARANCE BETWEEN ELECTRICAL PILLARS AND WATER METERS. INSTALL WATER METERS MINIMUM 1.5m FROM BOUNDARY PEG WHERE WATER METERS SHARE A COMMON BOUNDARY WITH ELECTRICAL PILLARS.

ENERGEX REQUIRE 1.0m CLEARANCE BETWEEN PILLARS AND DRIVEWAYS. IF LESS THAN 1.0m SEPARATION THEN PROTECTIVE BOLLARDS MUST BE INSTALLED.

**FOR CONSTRUCTION**

27/11/2020 9:50 AM



TYPICAL ENERGEX TRENCH SECTION WITH RATE 3 STREET LIGHTING CONDUIT

REFER TO DWG S2601672 FOR RATE 3 STREET LIGHTING.

**AS CONSTRUCTED**

Garry Edwards Date: 19/02/21  
 INZ ELECTRICAL SERVICES PTY LTD  
 97 ZILLMERE ROAD  
 BOONDALL 4034 QLD  
 PH 3865 2122 FAX 3865 4475

TO BE BUILT IN CONJUNCTION WITH TELECOMMUNICATIONS CABLE PROVISIONING AND JOINT USE GAS



REV	DATE	DETAILS	DRAWN	CHECKED	APPRVD
F	26.11.20	CABLE SC2192426/FS3 REMOVED	SC	BH	BK
E	01.10.20	REVISED TO COUNCIL COMMENTS	BH	BK	BK
D	27.08.20	STREET LIGHT ADDED TO DRIVEWAY PER ICC DEMAND	BH	BK	BK
C	11.08.20	ISSUED FOR CONSTRUCTION	BH	ST	BK
B	11.08.20	ISSUED FOR APPROVAL	BH	ST	BK
A	05.08.20	PRELIMINARY ISSUE	BH	ST	BK

NOTES LEGEND

**NOTES FOR DEVELOPERS ATTENTION**

**NOTES FOR ELECTRICAL CONTRACTORS ATTENTION**

**NOTES FOR CIVIL CONTRACTORS ATTENTION**

SITE CONTACT DETAILS		ALIGNMENTS		PROJECT / SUB PROJECT NO.	
NAME	REBECCA DELAY	ENERGEX OH	0.7 FR KI	S2601670	
COMPANY	CANBERRA ESTATES	ENERGEX UG	0-0.91	PARENT PROJECT NO.	
PHONE	0421 078 630	TELSTRA	0.91-1.3	WORK REQUEST NO.	
FAX		GAS	3.41-3.81	PLANNER & PHONE	SUBDIVISIONS
		HP GAS	3.41-3.81	LOTS	LOTS 490-511 & 590-596
		WATER	2.21-2.81	CANCELLING LOTS	LOT 5007 ON SP312157
		STORMWATER	IN ROAD	LOCAL AUTHORITY	IPSWICH CITY COUNCIL
		SEWERAGE	1.3-2.21	PEGGED?	ON REQUEST

**ampflo**  
 ABN 28 111 423 842  
 Electrical and Telecommunications Consultants  
 07 3372 9280 - projects@ampflo.com.au  
 ampflo.com.au

CERTIFICATION APPROVED:	Brad Kunde
RPEQ No:	16286
DATE:	27/11/2020
CHECKED:	S. THOMPSON
DESIGNER:	B. HYLAND
ISSUE DATE:	26.11.20

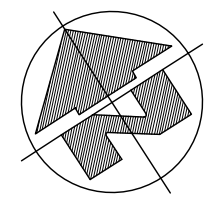
PROJECT	
WOODLINKS VILLAGE STAGE 17 QUARTZ ROAD, COLLINGWOOD PARK ELECTRICAL RETICULATION PLAN LEGEND AND NOTES	
CLIENT:	CANBERRA ESTATES CONSORTIUM NO.36 PTY LTD
DRAWING:	A201463
PROJECT:	201463
SHEET:	1 OF 3
ISSUE:	F

PLOT: 27/11/2020 15:52:38 AM FILE: P:\201463\1\WORKING DRAWINGS\A201463F

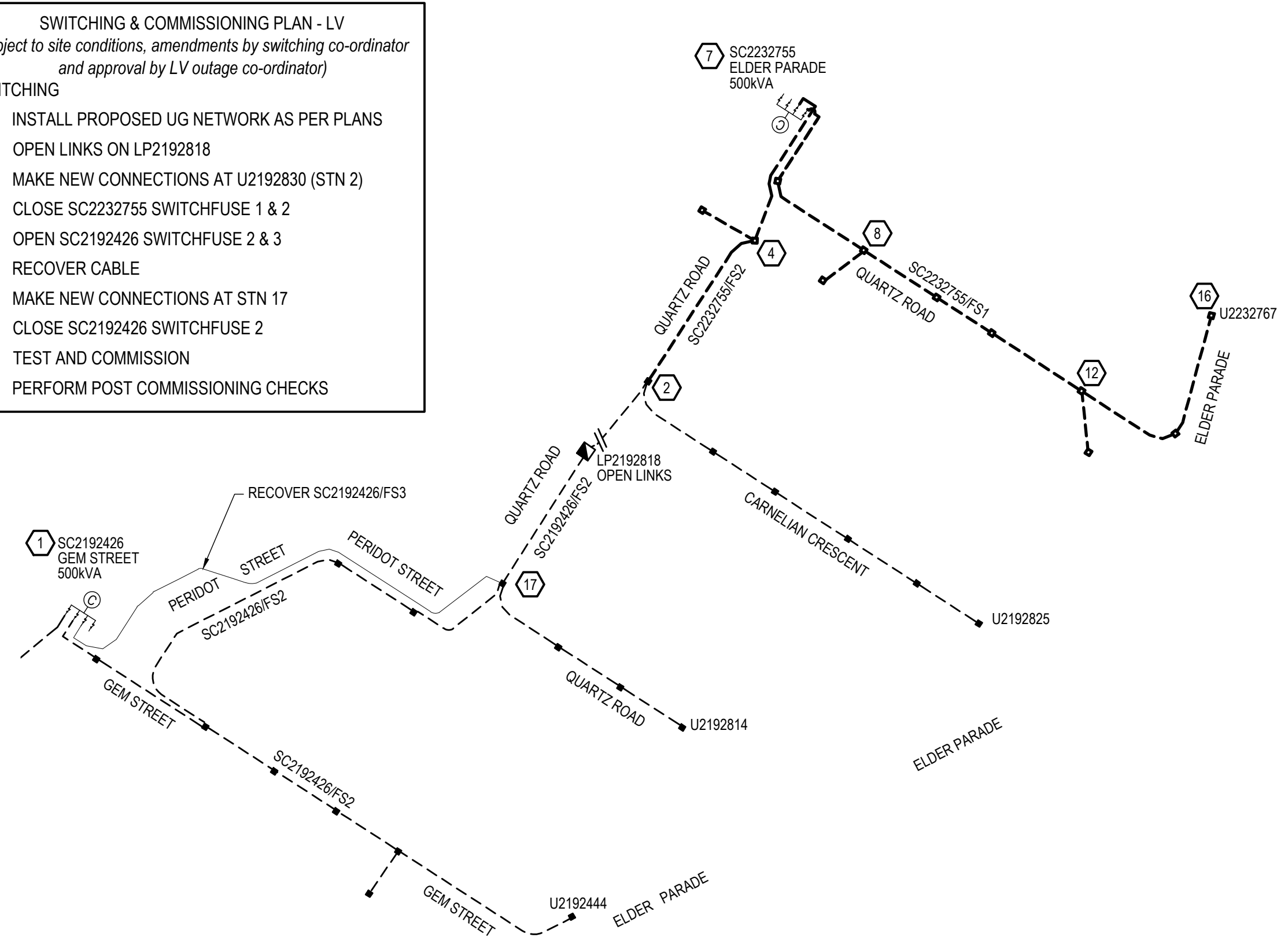






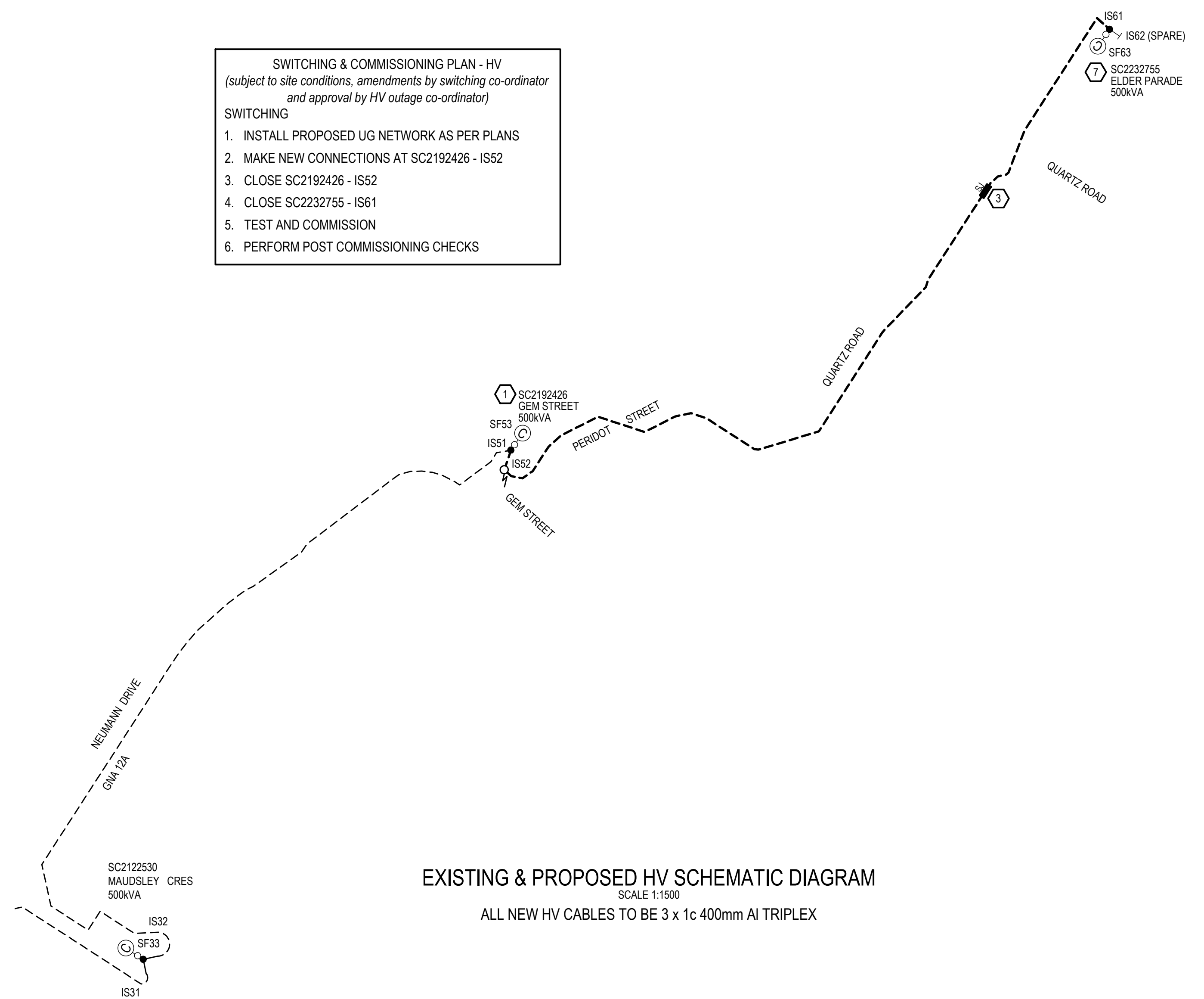


- SWITCHING & COMMISSIONING PLAN - LV**  
(subject to site conditions, amendments by switching co-ordinator and approval by LV outage co-ordinator)
- SWITCHING**
1. INSTALL PROPOSED UG NETWORK AS PER PLANS
  2. OPEN LINKS ON LP2192818
  3. MAKE NEW CONNECTIONS AT U2192830 (STN 2)
  4. CLOSE SC2232755 SWITCHFUSE 1 & 2
  5. OPEN SC2192426 SWITCHFUSE 2 & 3
  6. RECOVER CABLE
  7. MAKE NEW CONNECTIONS AT STN 17
  8. CLOSE SC2192426 SWITCHFUSE 2
  9. TEST AND COMMISSION
  10. PERFORM POST COMMISSIONING CHECKS



**EXISTING & PROPOSED LV SCHEMATIC DIAGRAM**  
SCALE 1:1500  
ALL NEW LV CABLES TO BE 4c 240mm AI XLPE UNO

- SWITCHING & COMMISSIONING PLAN - HV**  
(subject to site conditions, amendments by switching co-ordinator and approval by HV outage co-ordinator)
- SWITCHING**
1. INSTALL PROPOSED UG NETWORK AS PER PLANS
  2. MAKE NEW CONNECTIONS AT SC2192426 - IS52
  3. CLOSE SC2192426 - IS52
  4. CLOSE SC2232755 - IS61
  5. TEST AND COMMISSION
  6. PERFORM POST COMMISSIONING CHECKS



**EXISTING & PROPOSED HV SCHEMATIC DIAGRAM**  
SCALE 1:1500  
ALL NEW HV CABLES TO BE 3 x 1c 400mm AI TRIPLEX

**SC2192426 - GEM STREET**

CCT No.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
TFMR ISOLATOR	80x35	WB	6mm	TRANSFORMER ISOLATOR
1	80x35	WB	5mm	EXISTING LABEL
2	80x35	WB	5mm	TO QUARTZ ROAD LP2192818 / ELDER PARADE U2192444 / QUARTZ ROAD U2192814 AND SERVICES
3	80x35	WB	5mm	SPARE
4	80x35	WB	5mm	SPARE

**SC2232755 - ELDER PARADE**

CCT No.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
TFMR ISOLATOR	80x35	WB	6mm	TRANSFORMER ISOLATOR
1	80x35	WB	5mm	TO ELDER PARADE U2232767 AND SERVICES
2	80x35	WB	5mm	TO QUARTZ ROAD LP2192818 / CARNELIAN CRESCENT U2192825 AND SERVICES
3	80x35	WB	5mm	SPARE
4	80x35	WB	5mm	SPARE

**LP2192818 - QUARTZ ROAD**

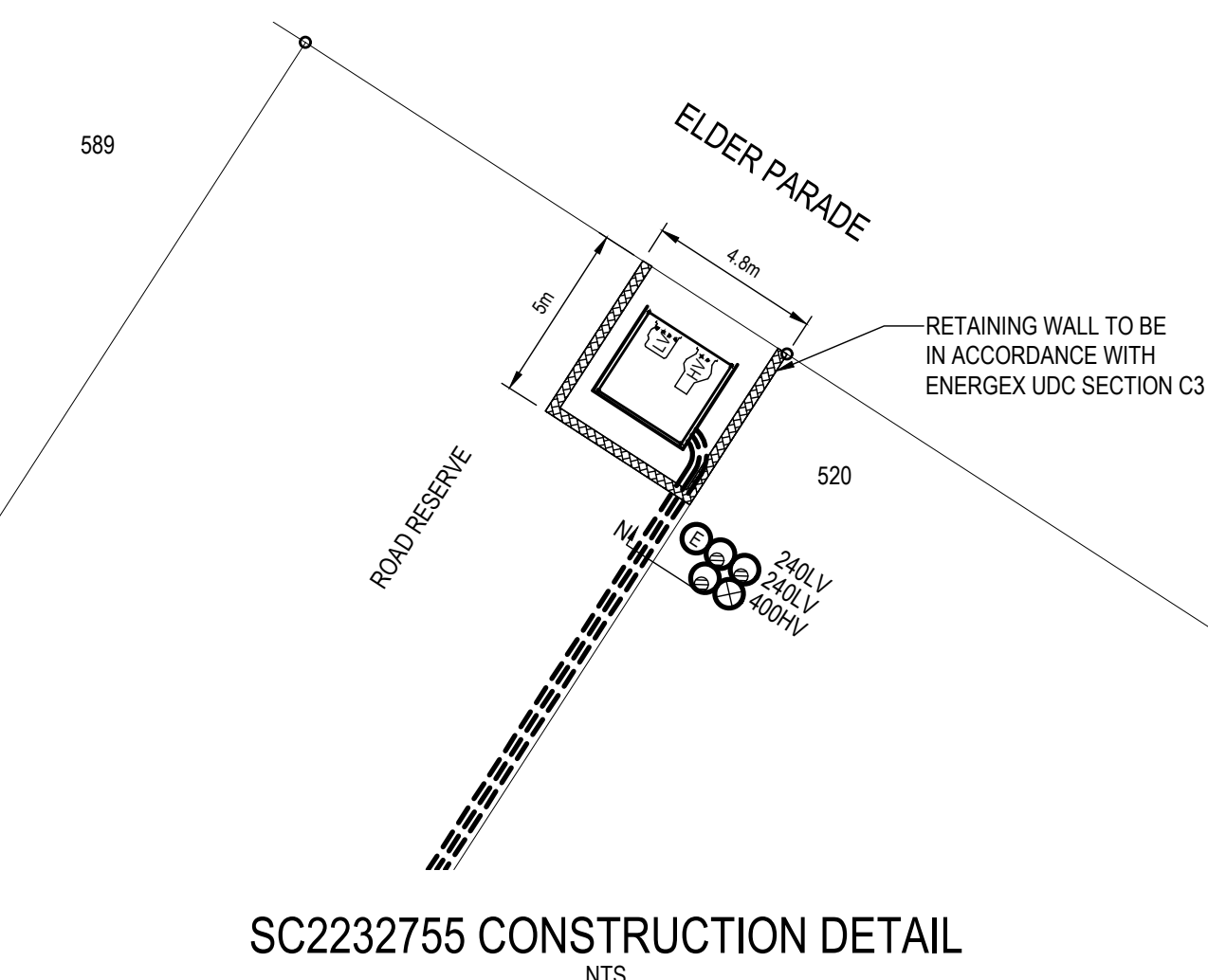
CABLE No.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
1	150x50	WB	5mm	TO GEM STREET SC2192426 AND SERVICES
2	150x50	WB	5mm	TO ELDER PARADE SC2232755 AND SERVICES

**SC2232755 ELDER PARADE HV LABEL INFORMATION**

LABEL SIZE	LABEL COLOUR	LETTER SIZE	CABLE FAULT INDICATOR	LABEL LOCATION	LABEL DESCRIPTION	
150x40	WB	20		FRONT	RMU IDENTIFICATION	
50x20	BLUE W	10		FRONT	DESIGN IDENTIFICATION	
100x40	WB	15mm	IS61	IS62	SF63	NEAR ISOLATOR IDENTIFICATION
150x40	BW	20mm				CABLE BOX FEEDER IDENTIFICATION
150x50	BW	10mm	TO GEM STREET SC2192426 - IS52	SPARE	TO TRFMR	CABLE BOX CABLE DESTINATION
150x50	BW	10mm	TO GEM STREET SC2192426 - IS52	SPARE	TO TRFMR	INSIDE SIDE WALL CABLE DESTINATION

**SC2192426 GEM STREET HV LABEL INFORMATION**

LABEL SIZE	LABEL COLOUR	LETTER SIZE	CABLE FAULT INDICATOR	LABEL LOCATION	LABEL DESCRIPTION	
150x40	WB	20		FRONT	RMU IDENTIFICATION	
50x20	BLUE W	10		FRONT	DESIGN IDENTIFICATION	
100x40	WB	15mm	IS51	IS52	SF53	NEAR ISOLATOR IDENTIFICATION
150x40	BW	20mm				CABLE BOX FEEDER IDENTIFICATION
150x50	BW	10mm	EXISTING LABEL	TO ELDER PARADE SC2232755 - IS61	TO TRFMR	CABLE BOX CABLE DESTINATION
150x50	BW	10mm	EXISTING LABEL	TO ELDER PARADE SC2232755 - IS61	TO TRFMR	INSIDE SIDE WALL CABLE DESTINATION



**SUBSTATION SITE PREPARATION NOTES**

PRIOR TO INSTALLING ANY PADMOUNT TRANSFORMER OR RING MAIN UNIT CULVERT, THE FOLLOWING DOCUMENTS NEED TO BE PREPARED AND THE SITE NEEDS TO MEET ALL CONDITIONS OF THE UDC MANUAL SECTION C3 AND THE FOLLOWING CONDITIONS:

1. THE CIVIL CONTRACTOR IS TO PREPARE A GEO-TECHNICAL REPORT DETAILING THE GROUND COMPACTION FOR THE NOMINATED PAD AND THE SURROUNDING APRON. IN ANY EVENT WHERE THE SITE IS CUT OR FILLED MORE THAN 150mm AT ANY POINT.
2. A RETAINING WALL IS TO BE INSTALLED WHERE THERE IS A CHANGE IN GROUND LEVEL OF 300mm OR MORE WITHIN 2000mm OF THE SUBSTATION CLEARANCE ZONE.
3. UNLESS IN ACCORDANCE WITH THE UDC SECTION C3, SUB-SECTION 2.6 (ENERGEX STD RETAINING WALLS), ANY RETAINING WALL IS TO BE A MINIMUM OF 300mm FROM THE SUBSTATION CLEARANCE ZONE AND IS A MINIMUM OF 1200mm BELOW THE PAD FINISHED LEVEL.
4. A CIVIL/STRUCTURAL DESIGN FOR THE SITE NEEDS TO BE COMPLETED AND RPEQ CERTIFIED IN ACCORDANCE WITH THE UDC SECTION 3. THIS DOCUMENTATION IS TO BE PROVIDED TO ENERGEX FOR APPROVAL PRIOR TO ANY WORKS COMMENCING.

**FOR CONSTRUCTION**  
27/11/2020 9:50 AM

**AS CONSTRUCTED**  
Garry Edwards Date: 19/02/21  
INZ ELECTRICAL SERVICES PTY LTD  
97 ZILLMERE ROAD  
BOONDALL 4034 QLD  
PH 3865 2122 FAX 3865 4475



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REV	DATE	DETAILS	DRAWN	CHECKED	APPRVD
F	26.11.20	CABLE SC2192426/SF53 REMOVED	SC	BH	BK
E	01.10.20	REVISED TO COUNCIL COMMENTS	BH	BK	BK
D	27.08.20	STREET LIGHT ADDED TO DRIVEWAY PER ICC DEMAND	BH	BK	BK
C	11.08.20	ISSUED FOR CONSTRUCTION	BH	ST	BK
B	11.08.20	ISSUED FOR APPROVAL	BH	ST	BK
A	05.08.20	PRELIMINARY ISSUE	BH	ST	BK

**NOTES LEGEND**

<b>NOTES FOR DEVELOPERS ATTENTION</b>
<b>NOTES FOR ELECTRICAL CONTRACTORS ATTENTION</b>
<b>NOTES FOR CIVIL CONTRACTORS ATTENTION</b>

**SITE CONTACT DETAILS**

NAME	REBECCA DELAY
COMPANY	CANBERRA ESTATES
PHONE	0421 078 630
MOBILE	0421 078 630
FAX	-

**ALIGNMENTS**

ENERGEX OH	0.7 FR KI
ENERGEX UG	0-0.91
TELSTRA	0.91-1.3
GAS	3.41-3.81
HP GAS	3.41-3.81
WATER	2.21-2.81
STORMWATER	IN ROAD
SEWERAGE	1.3-2.21

**PROJECT / SUB PROJECT NO.** S2601670

**PARENT PROJECT NO.**

**WORK REQUEST NO.**

**PLANNER & PHONE**

**SUBDIVISIONS**

**LOTS** LOTS 490-511 & 590-596

**LOT 5007 ON SP312157**

**CANCELLING LOTS**

**LOCAL AUTHORITY** IPSWICH CITY COUNCIL

**ON REQUEST**

**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)

**CERTIFICATION:**  
APPROVED: Brad Kunde  
RPEQ No: 16286  
DATE: 27/11/2020

**PROJECT**  
WOODLINKS VILLAGE STAGE 17  
QUARTZ ROAD, COLLINGWOOD PARK  
SCHEMATICS AND LABELS

**CLIENT:** CANBERRA ESTATES CONSORTIUM NO.36 PTY LTD

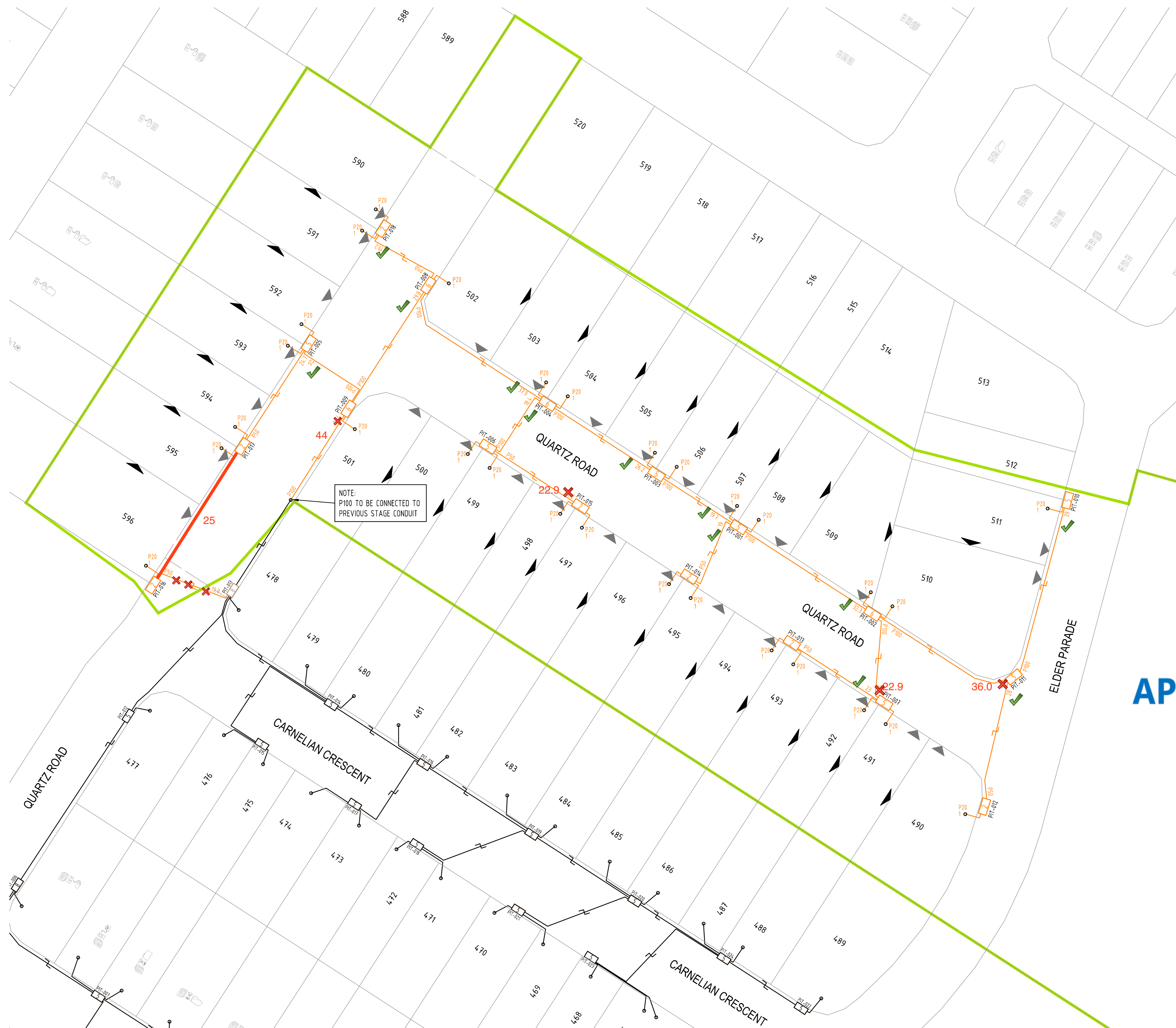
**CHECKED:** S.THOMPSON  
**DESIGNER:** B.HYLAND  
**ISSUE DATE:** 26.11.20

**DRAWING:** A201463  
**PROJECT:** 201463  
**SHEET:** 3 OF 3

**ISSUE**  
F

PLOT: 27/11/2020 9:50:39 AM FILE: P:\20146301\WORKING DRAWINGS\A201463





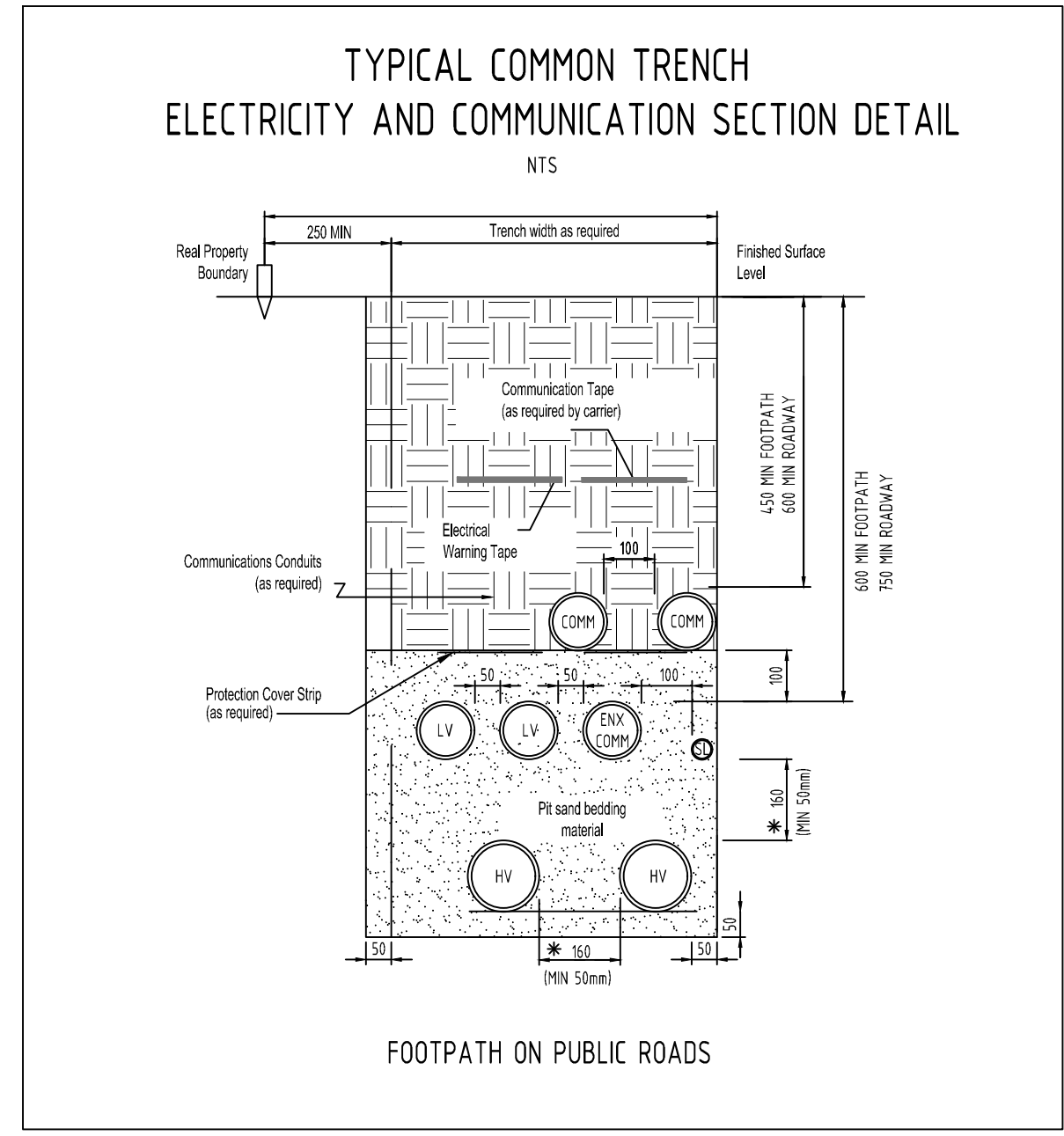
**SDU Development Information**  
 Development Name:  
 7001 Collingwood Dr, Collingwood Park QLD 4301  
 Developer Company:  
 Camberra Estates Consortium No. 36  
 Development Address:  
 7001 Collingwood Dr, Collingwood Park QLD 4301  
 Authorised Rep:  
 Ampflo Pty Ltd  
 Phone: 0733729280  
 E-Mail: comms@ampflo.com.au  
 nbn Reference Number: STG  
 Stage Number: 17  
 Design Revision: A

**BILL OF MATERIAL**

NO OF LOTS: 29 ✓

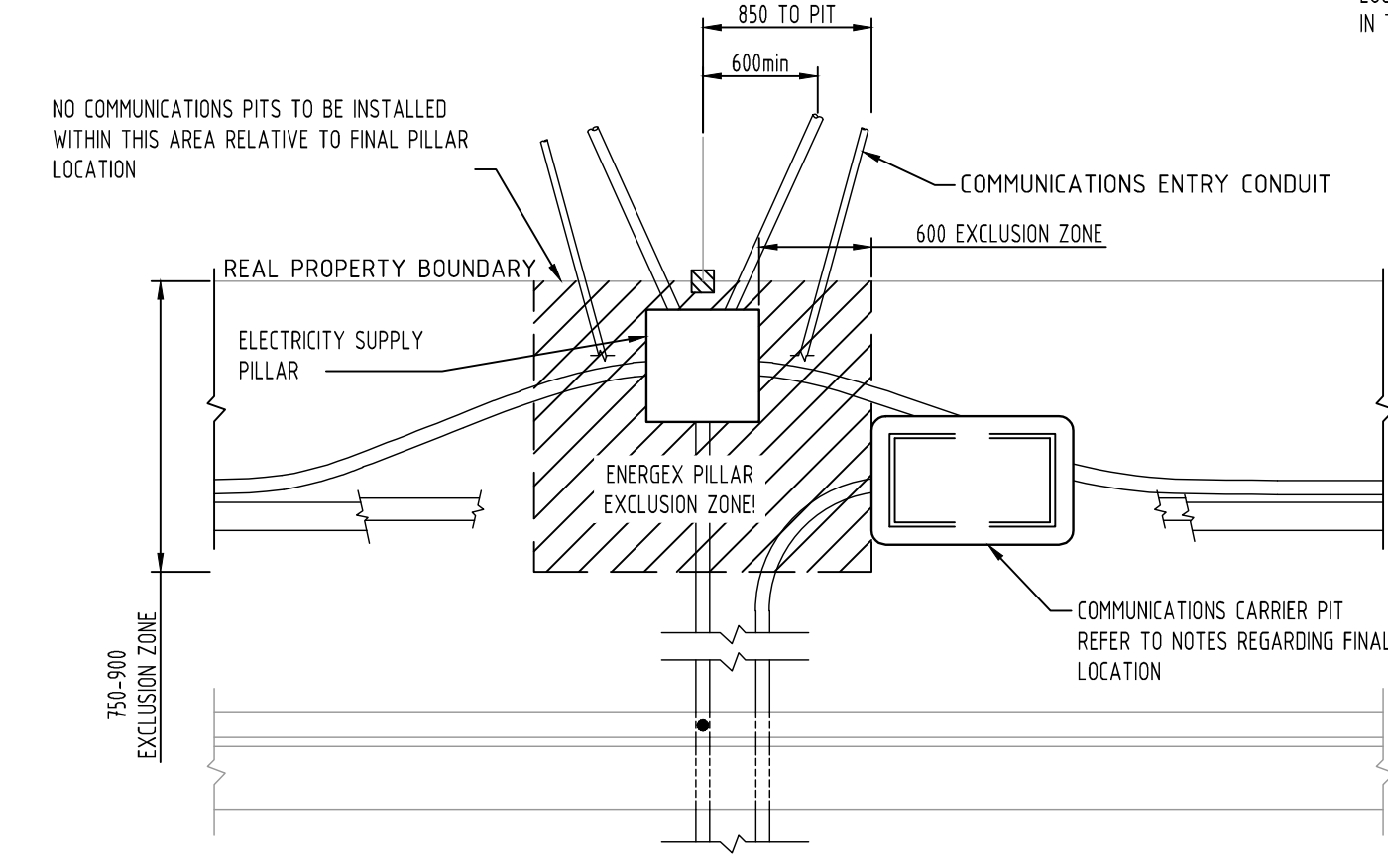
PITS		DUCTS	
SIZE	QTY	SIZE	QTY
2	7	P100	11
5	7	P50	7
6	4	P20	29
8	0		
9	0		

TOTAL NUMBER OF PITS: 18 ✓  
 TOTAL NUMBER OF MANHOLES: 0  
 TOTAL NUMBER OF CONDUITS: 47  
 TOTAL LENGTH OF CONDUITS: 484.4



**APPROVED FOR CONSTRUCTION**

- 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.
  - CONTRACTOR 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.
  - THE PRIMARY COMMUNICATIONS PIT LOCATION SHALL BE ON THE RIGHT HAND SIDE OF THE ELECTRICITY PILLAR WHEN VIEWED FROM THE KERB LINE. HOWEVER, WHERE A LOT IS DESIGNATED AS BEING A "ZERO LOT" OR A DRIVEWAY SYMBOL IS SHOWN THAT WOULD PLACE THE PILLAR IN A TRAFFICABLE LOCATION, THE NBN CONTRACTOR IS TO LOCATE THE PIT IN ACCORDANCE WITH THE ENERGEX UDC MANUAL OR CONFIRM THE INSTALLATION LOCATION WHEN ANY CONFUSION MAY ARISE. FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR RELOCATING THE PIT AT THEIR COST.



COMMS PIT LOCATION DETAIL

TO BE BUILT IN CONJUNCTION WITH ELECTRICAL RETICULATION PLAN A201463

DO NOT CONSTRUCT ANY CONCRETE DRIVEWAYS OR CROSSOVERS UNTIL ELECTRICAL & COMMUNICATIONS WORKS ARE COMPLETED

**NOTE - NBN PITS**  
 ALL NBN PIT LIDS MUST BE EMBOSSED WITH THE DESCRIPTOR OF 'NBN'. THE DESCRIPTOR SHALL BE INSTALLED IN COMPLIANCE WITH NBN-TE-CTO-194 V8.0 4.3.2 (FIGURE 13)

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



REV	DATE	DRAFTER	DESCRIPTION	APPROVED
A	28.07.20	BH	INITIAL DESIGN	CR

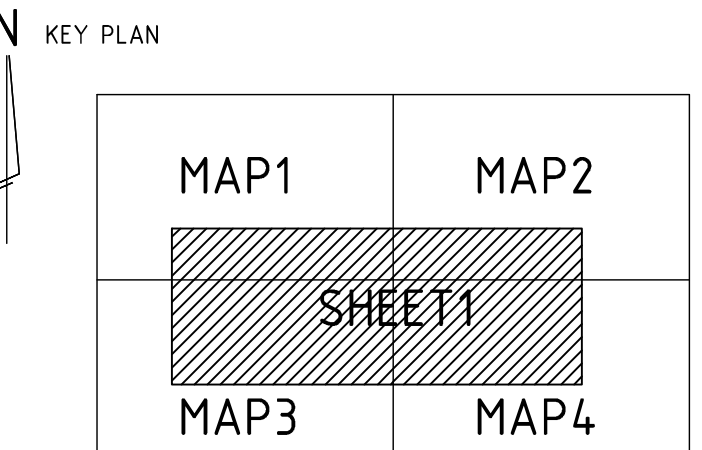
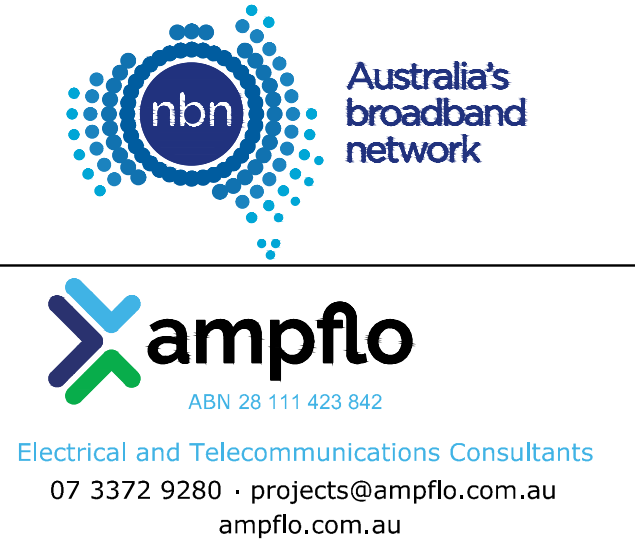
**STRICTLY CONFIDENTIAL**

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:  
 7001 COLLINGWOOD DRIVE  
 COLLINGWOOD PARK  
 QLD 4301

ENABLE#:

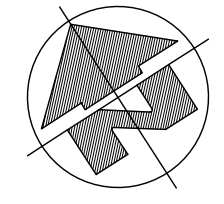
STATE: QLD	REGION: MGA56	
FSA:	SAM:	ADA:
PROJECT No: 201463		
CADREF No: T201463		

SCALE: N/A SHEET No. 1 OF 1 REV. A

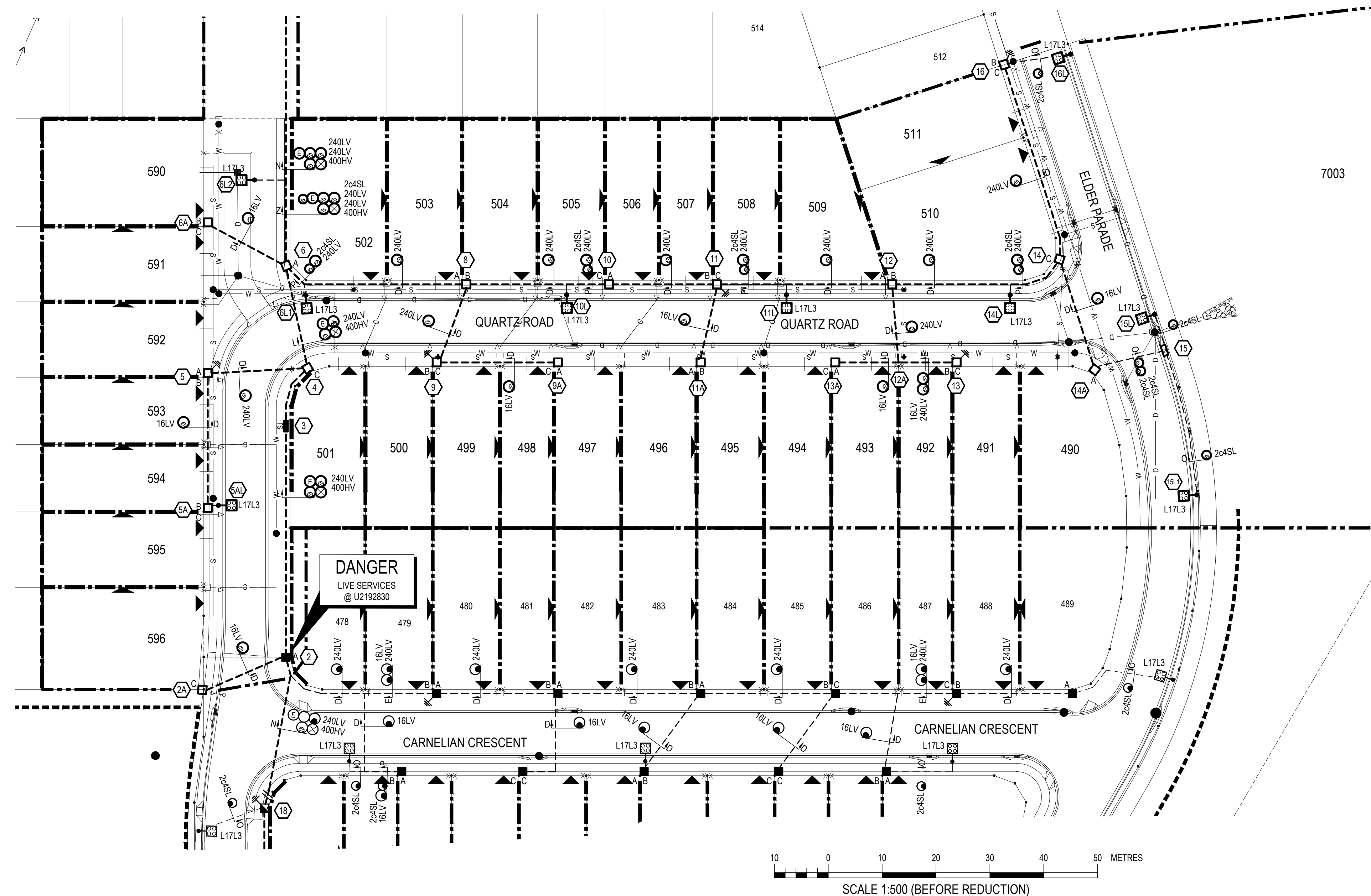


LEGEND

- EXISTING OVERHEAD CABLE
- PROPOSED OVERHEAD CABLE
- EXISTING UNDERGROUND CABLE
- PROPOSED UNDERGROUND CABLE
- E
- PROPOSED ELECTRICAL SERVICE CONDUIT
- ET
- PROPOSED ELECTRICAL & COMMUNICATION SERVICE CONDUITS
- POLE TRANSFORMER
- PADMOUNT TRANSFORMER
- HV POLE
- HV / LV POLE
- LV POLE
- HV UNDERGROUND POLE TERMINATION
- LV UNDERGROUND POLE TERMINATION
- AERIAL STAY
- GROUND STAY
- EARTH
- EXISTING PILLAR
- PROPOSED PILLAR
- LINK PILLAR
- CONDUIT / CABLE CROSS-SECTION
- LED STREET LIGHT
- WM X WATER METER (BY OTHERS)
- PROPOSED DRIVEWAY LOCATION
- PROPOSED ZERO LOT BOUNDARY



Fire Ant  
Biossecurity  
Caution  
Zone  
For Info  
Call 13 25 23



RATE 3 LED LIGHTING INFORMATION

DESIGN NOTES  
SOFTWARE USED - PERFECT LITE - TREVOR CASWELL SOFTWARE.  
MAINTENANCE FACTOR - 0.75  
CLEANING CYCLE - 36 MONTHS.  
MAXIMUM SERVICE LIFE - 50,000 HOURS.

PUBLIC LIGHTING NOTES  
REFER TO IPSWICH CITY COUNCIL STANDARD DRAWINGS SL.01 TO SL.08 FOR STANDARD NOTES, INSTALLATION DETAILS AND LABELLING REQUIREMENTS.

CONTRACTOR OBLIGATION  
ALL LIGHT FITTINGS SHALL BE CONNECTED TO UNMETERED SUPPLY IN ACCORDANCE WITH ENERGEK RATE 3 REQUIREMENTS, AND AS NOTED ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE THE DATE OF CONNECTION OF EACH STREET LIGHT ADJACENT TO EACH STATION IN THE STREET LIGHTING SCHEDULE.

THIS SCHEDULE WILL THEN BE USED BY THE CONTRACTOR FOR B2B SUBMISSION.

STREETLIGHTING CERTIFICATION

This lighting design is certified to comply generally with the nominated categories of AS/NZS 1158.1.1:2005 (V Category) and / or AS/NZS 1158.3.1:2005 for (P Category) for luminaires supplied as specified in this design.

QUARTZ ROAD	P4
ELDER PARADE	P4
DRIVEWAY	P4

Maintenance Factor:  
This lighting design uses the following maintenance factor(s):  
Maintenance Factor Calculated : 0.75

These maintenance factor(s) are based on the following nominal maintenance regime:

- Lamp replacement (non-LED luminaires) at 36 month intervals.
- Cleaning, inspection and maintenance of luminaires at 36 month intervals.
- Service availability maintained at not less than 95%.
- Vegetation kept clear of luminaires.

If the asset owner elects not to adopt this maintenance regime, they shall develop an inspection and maintenance regime such that the overall lighting installation operates in accordance with this design.

DATE:  
RPEQ No:

LOCATION	STATIONS FROM - TO	EX	REC	IN	240 VOLT 16mm 2C+E	240 VOLT 16mm 2C	240 VOLT 4mm 2C+E	240 VOLT 4mm 2C	REMARKS
QUARTZ ROAD	5A - 5AL			*			8		
	6 - 6L1			*			13		
	6 - 6L2			*			27		
	10 - 10L			*			16		
	11 - 11L			*			21		
ELDER PARADE	14 - 14L			*			19		
	14A - 15L			*			26		
	14A - 15L1			*			47		
	16 - 16L			*			18		
TOTAL							195		

STN	EASTING	NORTHING
5AL	6373.307	4036.070
6L1	6408.120	4060.035
6L2	6411.748	4083.141
10L	6448.835	4033.770
11L	6483.098	4011.618
14L	6517.961	3989.078
15L	6538.508	3971.480
15L1	6526.886	3939.078
16L	6551.652	4020.535

LOCATION	STN No.	SITE ID (POLE No.)	COMP ID	POLE OR COMPONENTS					ALIGN (m)	COMP ID	EX	RECOVER		DATE DE-ENERG	LANTERN		OUTREACH BRACKET				MOUNT HT (m)	REMARKS
				EXIST (m)	REC (m)	ER (m)	CU ID	CL				LUMIN	ERECT CUST.		DATE ENERG	CU ID	EX (m)	REC (m)	ER (m)	CU ID		
QUARTZ ROAD	5AL	ICC3W 2232788	P01	4.5m BPM	SLNOS3CI	0.95 IOK	1.06 SL1								L17L3	IPSW	SLEDGL01715	5.1				BLACK AVENUE
	6L1	ICC3W 2232789	P01	4.5m BPM	SLNOS3CI	0.95 IOK	1.05 SL1								L17L3	IPSW	SLEDGL01715	5.1				BLACK AVENUE
	6L2	ICC3W 2233039	P01	4.5m BPM	SLNOS3CI	1m EOD	SL1								L17L3	IPSW	SLEDGL01715	5.1				BLACK AVENUE
	10L	ICC3W 2232770	P01	4.5m BPM	SLNOS3CI	0.95 IOK	SL1								L17L3	IPSW	SLEDGL01715	5.1				BLACK AVENUE
	11L	ICC3W 2232771	P01	4.5m BPM	SLNOS3CI	0.95 IOK	SL1								L17L3	IPSW	SLEDGL01715	5.1				BLACK AVENUE
ELDER PARADE	14L	ICC3W 2232772	P01	4.5m BPM	SLNOS3CI	0.95 IOK	1.02 SL1								L17L3	IPSW	SLEDGL01715	5.1				BLACK AVENUE
	15L	ICC3W 2232773	P01	4.5m BPM	SLNOS3CI	0.95 IOK	0.8 SL1								L17L3	IPSW	SLEDGL01715	5.1				BLACK AVENUE
	15L1	ICC3W 2232774	P01	4.5m BPM	SLNOS3CI	0.95 IOK	0.83 SL1								L17L3	IPSW	SLEDGL01715	5.1				BLACK AVENUE
	16L	ICC3W 2232775	P01	4.5m BPM	SLNOS3CI	0.95 IOK	0.85 SL1								L17L3	IPSW	SLEDGL01715	5.1				BLACK AVENUE

AS CONSTRUCTED

Garry Edwards  
Date: 22/02/21  
INZ ELECTRICAL SERVICES PTY LTD  
97 ZILLMERE ROAD  
BOONDALL 4034 QLD  
PH 3865 2122 FAX 3865 4475

FOR CONSTRUCTION  
27/11/2020 9:50 AM

TO BE BUILT IN CONJUNCTION WITH TELECOMMUNICATIONS  
CABLE PROVISIONING AND JOINT USE GAS



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REV	DATE	DETAILS	DRAWN	CHECKED	APPRVD
F	26.11.20	CABLE SC2192426/IFS3 REMOVED	SC	BH	BK
E	01.10.20	REVISED TO COUNCIL COMMENTS	BH	BK	BK
D	27.08.20	STREET LIGHT ADDED TO DRIVEWAY PER ICC DEMAND	BH	BK	BK
C	11.08.20	ISSUED FOR CONSTRUCTION	BH	ST	BK
B	11.08.20	ISSUED FOR APPROVAL	BH	ST	BK
A	05.08.20	PRELIMINARY ISSUE	BH	ST	BK

NOTES LEGEND

NOTES FOR DEVELOPERS ATTENTION

NOTES FOR ELECTRICAL CONTRACTORS ATTENTION

NOTES FOR CIVIL CONTRACTORS ATTENTION

SITE CONTACT DETAILS		ALIGNMENTS		PROJECT / SUB PROJECT NO.	
NAME	REBECCA DELAY	ENERGEX OH	0.7 FR KI	S2601672	
COMPANY	CANBERRA ESTATES	ENERGEX UG	0-0.91	PARENT PROJECT NO.	
PHONE	-	TELSTRA	0.91-1.3	WORK REQUEST NO.	
MOBILE	0421 078 630	GAS	3.41-3.81	PLANNER & PHONE	SUBDIVISIONS
FAX	-	HP GAS	3.41-3.81	LOTS	LOTS 490-511 & 590-596
		WATER	2.21-2.81	CANCELLING LOTS	LOT 5007 ON SP312157
		STORMWATER	IN ROAD	LOCAL AUTHORITY	IPSWICH CITY COUNCIL
		SEWERAGE	1.3-2.21	PEGGED?	ON REQUEST

**ampflo**  
ABN 28 111 423 842  
Electrical and Telecommunications Consultants  
07 3372 9280 - projects@ampflo.com.au  
ampflo.com.au

CERTIFICATION:		PROJECT	
APPROVED:	Brad Kunde	WOODLINKS VILLAGE STAGE 17	
RPEQ No:	16286	QUARTZ ROAD, COLLINGWOOD PARK	
DATE:	27/11/2020	RATE 3 STREET LIGHTING PLAN	
CHECKED:	S.THOMPSON	CLIENT:	CANBERRA ESTATES CONSORTIUM NO.36 PTY LTD
DESIGNER:	B.HYLAND	DRAWING:	R201463
ISSUE DATE:	26.11.20	PROJECT:	201463
		SHEET	1 OF 1

F