

Depth of Fill Following Earthworks			
Fill Layer	Minimum Elevation (m)	Maximum Elevation (m)	Color
1	0.0	0.3	Orange
2	0.3	0.6	Light Orange
3	0.6	0.9	Yellow
4	0.9	1.2	Light Green
5	1.2	1.5	Green
6	1.5	1.8	Light Blue
7	1.8	2.1	Blue
8	2.1	2.4	Purple
9	2.4	2.7	Light Purple
10	2.7	3.0	Pink
11	3.0	3.3	Light Pink
12	3.3	3.6	Red

- NOTES:**
- ALL STRIP SURVEY LEVELS PROVIDED BY WESTERN EARTH MOVING (WEM).
 - FILL LEVELS SHOWN ARE AS AT 14/04/2015.
 - 0.3m FILL CONTOUR INTERVAL.

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>No.</th> <th>DATE</th> <th>REVISION DETAILS</th> <th>DRAWN</th> <th>CHK</th> <th>APP</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>28.04.2015</td> <td>ORIGINAL ISSUE</td> <td>LSICW</td> <td>LMS</td> <td>LMS</td> </tr> </tbody> </table>	No.	DATE	REVISION DETAILS	DRAWN	CHK	APP	A	28.04.2015	ORIGINAL ISSUE	LSICW	LMS	LMS	<p>SCALE: 1:800</p> <p>DATUM: AHD</p> <p>ORIGIN:</p> <p>COORDINATES: MGA</p> <p>CROSS SECTION: V: N/A H: N/A</p> <p>ORIGIN:</p>	<p>SCALE BAR:</p>	<p>CLIENT: CATHOLIC DIOCESE OF PARRAMATTA</p> <p>SURVEY: GDS</p> <p>DRAWN: LSICW</p> <p>DESIGNED: N/A</p> <p>APPROVED: LMS</p> <p>DATE OF SURVEY: 14.04.2015</p> <p>DATE OF PLAN: 24.04.2015</p> <p>DATE LAST SAVED: 24.04.2015</p> <p>DATE APPROVED: 28.04.2015</p>	<p>TITLE: DEPTH OF FILL PLACED FOLLOWING BULK EXCAVATION, ASSISI CLOSE, CRANEBROOK</p>	<p>PROJECT No: I117</p> <p>ISSUE: A</p> <p>WX02 SHEET 1 OF 1</p> <p>SIZE: A3</p>
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP												
A	28.04.2015	ORIGINAL ISSUE	LSICW	LMS	LMS												

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CONSTRUCTION NOTES

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH PENRITH CITY COUNCIL'S CONSTRUCTION SPECIFICATION - DRAFT 2013 AND TO THE REQUIREMENTS OF THE SUPERVISING ENGINEERS.
- ALL CONSTRUCTION NOTES TO BE READ IN CONJUNCTION WITH COUNCIL'S SPECIFICATIONS.
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION CERTIFICATE PLANS AND COUNCIL'S DEVELOPMENT CONTROL PLAN.
- TO THE EXTENT SPECIFIED, THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES AND DEBRIS, ETC. CLEARING AND GRUBBING - NO TREES TO BE REMOVED WITHOUT COUNCIL'S PERMISSION UNTIL MARKED OUT BY COUNCIL.
- ALL NEW WORKS SHALL MAKE SMOOTH JUNCTION WITH EXISTING WORKS.
- THE CONTRACTOR SHALL CARRY OUT A SERVICES SEARCH AND SHALL LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION AND PROTECT AND MAKE ARRANGEMENT WITH THE RELEVANT AUTHORITY TO RELOCATE AND/OR ADJUST IF NECESSARY AT DEVELOPERS EXPENSE AND AT NO COST TO COUNCIL. INFORMATION GIVEN ON THE DRAWINGS IN RESPECT TO SERVICES IS FOR GUIDANCE ONLY AND IS NOT GUARANTEED COMPLETE NOR CORRECT.
- SERVICE CONDUITS TO BE LAID AS DIRECTED BY THE RELEVANT AUTHORITY CLEAR OF ALL VEHICULAR CROSSINGS. ANY ELECTRICAL ROAD CROSSINGS ARE TO BE INSPECTED AND SURVEYED BY THE CONTRACTOR'S REGISTERED SURVEYOR IN ACCORDANCE WITH ENDEAVOUR ENERGY REQUIREMENTS. THE REGISTERED SURVEYOR MUST SIGN THE ELECTRICAL DUCT PLAN.
- PROVISION TO BE MADE FOR SUITABLE PROTECTION OF ROAD PAVEMENT KERB AND GUTTER AND FOOTPATH FORMATION.
- VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION WORKS. THE CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE PERMISSION OF THE OWNER AND SUPERINTENDENT.
- WHERE KERB & GUTTER IS LAID BY USE OF A KERB & GUTTER MACHINE THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONCRETE QUALITY. THE REMOVAL OF ALL KERB & GUTTER AT HIS OWN EXPENSE WHERE THE MINIMUM STRENGTH IS NOT ACHIEVED AT 28 DAYS IN ACCORDANCE WITH COUNCIL'S STANDARD SPECIFICATIONS.
- ALL TEMPORARY ROAD CONSTRUCTION TO BE REMOVED AND SURFACE TO BE REINSTATED TO NATURAL CONDITION WHERE PERMANENT ACCESS IS AVAILABLE.
- TOPSOIL TO BE REMOVED AND STOCKPILED WHERE SHOWN & RE-SPREAD ON COMPLETION OF EARTHWORKS.
- ALL DISTURBED AREAS AND STOCKPILES TO BE STABILISED WITHIN 14 DAYS.
- NO DISTURBANCE OF SITE PERMITTED OTHER THAN IMMEDIATE AREA OF WORK.
- EARTHWORKS TO BE CARRIED OUT TO THE SATISFACTION OF THE SUPERVISING ENGINEER. MATERIAL IS TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING. ALL SITE REFINISHING TO BE FINALLY GRADED TO THE SATISFACTION OF THE SUPERINTENDENT.
- WHERE LOT FILLING IN EXCESS OF 250mm IN DEPTH IS PROPOSED, LEVELS ARE TO BE CALLED OUT TO SURFACE. SUCH LEVELS ARE TO BE SHOWN ON THE WORK AS EXECUTED PLANS. FILLING TO BE CALLED OUT TO COUNCIL'S STANDARDS.
- PROVIDE 150mm TOPSOIL TO ALL FOOTPATHS AND FILLED AREAS.
- DRAINAGE HOLES TO BE PROVIDED IN KERB AT LOW SIDES OF ALL LOTS WHICH DRAIN TO ROADS.
- CONDUIT TRENCHES AND STORMWATER DRAINAGE LINES TO BE BACK-FILLED WITH APPROVED WASHED RIVER SAND AND VIBRATED. CONDUIT TRENCHES TO BE GRADED AT A MINIMUM OF 1% TO EITHER SUBSOIL OR STORMWATER DRAINAGE LINES.
- SUBSOIL DRAINS TO BE CONSTRUCTED AS REQUIRED BY SUPERVISING ENGINEER.
- ALL DRAINAGE LINES THROUGH ADJACENT LOTS SHALL BE CONTAINED WITHIN EASEMENTS CONFORMING TO COUNCIL'S STANDARDS.
- SERVICE CONDUIT LOCATIONS TO BE PERMANENTLY MARKED ON KERB FACE.
- PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL PROVIDE A TRAFFIC MANAGEMENT PLAN PREPARED BY AN ACCREDITED RTA TRAFFIC CONTROLLER IN ACCORDANCE WITH RTA REQUIREMENTS, FOR ANY WORK ON OR ADJACENT TO PUBLIC ROADS. PLAN TO BE SUBMITTED TO COUNCIL AND RTA.
- ALL IMPORTED FILL MATERIAL SHALL BE VIRGIN EXCAVATED NATURAL MATERIAL (VENM). VALIDATION CERTIFICATE MUST BE PROVIDED TO COUNCIL.
- NO FILL MATERIAL IS TO BE IMPORTED TO THE SITE WITHOUT THE PRIOR APPROVAL OF PENRITH CITY COUNCIL. NO RECYCLING OF MATERIAL FOR USE AS FILL MATERIAL SHALL BE CARRIED OUT ON THE SITE WITHOUT PRIOR APPROVAL FROM COUNCIL.
- NO FIRES ARE TO BE LIT OR WASTE MATERIALS BURNT ON THE SITE.
- ALL OUTBUILDINGS, RUBBISH & FENCES ARE TO BE DEMOLISHED AND THE MATERIALS DISPOSED OF WITHOUT NUISANCE. (N.B. INCINERATION OF THE MATERIALS IS STRICTLY PROHIBITED UNDER THE PROVISIONS OF THE CLEAN AIR ACT AND ANY BREACHES WILL RESULT IN LEGAL ACTION BEING RECOMMENDED.)
- WHERE THE LAND IS TO BE FILLED, GRADED OR ROADWORKS CONSTRUCTED, IT WILL BE NECESSARY THAT REGULAR WATERING DOWN OF OPERATIONS BE CARRIED OUT WHERE THE CREATION OF DUST DURING EARTHWORKS IS A PROBLEM.
- ALL TRUCKS TRANSPORTING DEBRIS FROM THE SITE MUST BE COVERED.
- CONSTRUCTION WORK IS PERMITTED ON THE SITE BETWEEN THE HOURS OF 7am TO 5pm MONDAY TO FRIDAY AND 7am TO 1pm SATURDAY (IF INAUDIBLE ON NEIGHBOURING PROPERTIES OTHERWISE 8am TO 1pm WITH NO WORK PERMITTED ON SUNDAY & PUBLIC HOLIDAYS).
- ALL NOXIOUS PLANTS TO BE REMOVED FROM THE PROPERTY.
- LAND FILLED IN EXCESS OF 250mm TO BE COMPACTED TO 95% STANDARD DRY DENSITY RATIO (AS1289 E4.1). EACH LOT, WHETHER FILLED OR NOT, TO BE CLASSIFIED IN TERMS OF THE AUSTRALIAN STANDARD FOR RESIDENTIAL SLABS AND FOOTINGS (AS2870) PREPARED BY A NATA REGISTERED SOIL TESTING CONSULTANT. WHERE THE LOT CLASSIFICATION IS H, A RESTRICTION WILL BE REQUIRED ON THE TITLE OF THAT LOT THAT SPECIAL FOOTINGS FOR ANY BUILDING MAY BE REQUIRED. A CLASSIFICATION OF E OR P IS UNACCEPTABLE.
- ALL MACHINERY AND MATERIALS TO BE LOADED/UNLOADED WITHIN WORKSITE.
- ALL CONSTRUCTION MATERIALS AND MACHINERY MUST BE KEPT WITHIN WORKSITE.
- THE CONTRACTOR SHALL ENSURE THAT SOIL/EXCAVATED MATERIAL IS NOT DEPOSITED ON SURROUNDING ROADS. ANY SOIL DROPPED ON THE SURROUNDING ROADS SHALL BE IMMEDIATELY REMOVED.
- 100 YEAR FLOW PATHS TO BE FORMED AT TIME OF CONSTRUCTION.
- DRIVEWAYS & LAYBACKS TO Min. 1m CLEARANCE FROM POWER & LIGHT POLES & STORMWATER DRAINS, & 6m CLEARANCE FROM KERB RETURN T.P.'s.
- STRUCTURAL CERTIFICATION REQUIRED FOR DESIGN AND CONSTRUCTION OF MAJOR NON-STANDARD STRUCTURES.
- ALL LIGHT POLES, STREET NAME POLES & BUS SHELTERS IN THIS SUBDIVISION WILL BE ANTI GRAFFITI COATED TO THE SATISFACTION OF COUNCIL AND WILL COMPLY WITH COUNCIL SPECIFICATIONS.
- DOCUMENTS TO BE KEPT ON SITE AT ALL TIMES INCLUDE:
 - TRAFFIC MANAGEMENT PLAN
 - STAMPED CONSTRUCTION CERTIFICATE PLANS
 - DEVELOPEMENT CONSENT
 - COUNCIL'S CONSTRUCTION SPECIFICATIONS
 - ANY OTHER CERTIFICATE TO BE RELIED UPON

CIVIL WORKS FOR SUBDIVISION OF LOT 1 DP 1144668 ANDROMEDA DRIVE, CRANEBROOK

This plan/document relates to
 DA No: 130288-02 CCX No: 140030
 Section 138 of the Roads Act
 PENRITH CITY COUNCIL

SHEET INDEX

No.	SHEET DESCRIPTION	DWG #	ISSUE
1	COVER SHEET & LOCALITY SKETCH	I117EG-E1-1	C
2	PLAN	I117EG-E1-2	C
3	BIORETENTION PLAN AND DETAILS	I117EG-E1-3	C
4	ROAD No. 1 & ACCESS HANDLE LONG. SECTION & SETOUT	I117EG-E1-4	C
5	ROAD No. 1 CROSS SECTIONS (1)	I117EG-E1-5	B
6	ROAD No. 1 CROSS SECTIONS (2) & SETOUT	I117EG-E1-6	C
7	KERB RETURNS & INTERSECTION DETAIL	I117EG-E1-7	C
8	CATCHMENT PLAN & STORMWATER DETAILS	I117EG-E1-8	C
9	DRAINAGE LONG. SECTIONS	I117EG-E1-9	C
10	DRAINAGE CALCULATIONS (1)	I117EG-E1-10	A
11	DRAINAGE CALCULATIONS (2) & DRAINAGE SETOUT	I117EG-E1-11	C
12	PLAN - REDUNDANT SERVICES, ETC TO BE REMOVED	I117EG-E1-12	C
13	SOIL, WATER & CONSTRUCTION MANAGEMENT PLAN	I117EG-E1-13	C
14	TREE RETENTION PLAN	I117EG-E1-14	C
15	LINE MARKING, SIGNAGE & FENCING PLAN	I117EG-E1-15	C

WORK AS EXECUTED (11 May 2015)
FINAL ISSUE: 11-05-2015



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This plan/document relates to
 DA No: 130288-02 CCX No: 140030
 Environmental Planning & Assessment Act
 PENRITH CITY COUNCIL

ASPHALT PAVEMENT

- ALL ROAD SERVICE CROSSINGS TO BE LAID AND INSPECTED BY RELEVANT AUTHORITY AND CERTIFICATION TO BE PROVIDED BEFORE PLACEMENT OF PAVEMENT LAYERS.
- PREPARATION FOR PAVEMENT. CLEAR SITE, STRIP TOPSOIL, CUT AND FILL AND PREPARATIONS OF SUBGRADE SHALL BE AS DESCRIBED IN "EARTHWORKS".
- SUBGRADE SHALL BE COMPACTED TO 100% STANDARD DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT +2% IN ACCORDANCE WITH AS1289.5.1.1.
- SUBBASE SHALL BE CONSTRUCTED FROM DGS40 COMPACTED TO 98% STANDARD DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT +2% IN ACCORDANCE WITH AS1289.5.1.1. OF THICKNESS NOTED ON DRAWINGS.
- BASE COURSE SHALL BE CONSTRUCTED FROM FINE CRUSHED ROCK DGB20 COMPACTED TO 98% STANDARD DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT +2% IN ACCORDANCE WITH AS1289.5.1.1. OF THICKNESS NOTED ON DRAWINGS.
- APPLY TACK COAT 30-120 MINUTES BEFORE ASPHALT SURFACING IS PLACED. COVER THE SURFACE UNIFORMLY AT AN APPLICATION RATE OF 0.10-0.30 L/m² OF RESIDUAL BITUMEN.
- WEARING SURFACE SHALL BE ASPHALTIC CONCRETE TO STANDARD SPECIFICATION. THE INITIAL 2 LAYERS OF THE WEARING COURSE SHALL COMPACTED TO 98% STANDARD DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT +2% IN ACCORDANCE WITH AS1289.5.1.1. OF THICKNESS NOTED ON DRAWINGS. THE PLACEMENT OF THE FIRST 25MM LAYER OF AC10 SHALL NOT BE LAID UNTIL PERMISSION IS OBTAINED FROM COUNCIL'S ENGINEER. PLACEMENT OF THE FINAL LAYER WILL BE DELAYED FOR A PERIOD OF TWELVE MONTHS OR UNTIL 80% OF DWELLINGS HAVE BEEN ERRECTED IN THE SUBDIVISION.

STORMWATER DRAINAGE

- STORMWATER DRAINAGE SHALL BE GENERALLY IN ACCORDANCE WITH AS3500.3 AND PENRITH CITY COUNCIL'S STANDARD SPECIFICATION.
- PIPES OF 225mm DIA. AND UNDER (U.N.O.) SHALL BE UPVC TO AS1254.
- PIPES OF 300mm DIA. AND LARGER SHALL BE R.C.P. Min. CLASS 2 TO AS4058, RUBBER RING JOINTED UNO, UNLESS HIGHER CLASS SPECIFIED.
- PIPES SHALL BE LAID AT A MINIMUM GRADE OF 1.0% UNO. BEDDING MATERIAL TO AS2032 OR AS3725 AS APPROPRIATE.
- MINIMUM COVER TO PIPES CLASS 2 300mm DIA. AND OVER GENERALLY SHALL BE 500mm IN ROADWAY AREAS UNO. MINIMUM COVER TO PIPES CLASS 3 300mm DIA. AND OVER GENERALLY SHALL BE 450mm IN ROADWAY AREAS UNO.
- BACKFILL TRENCHES WITH APPROVED FILL, SUCH AS SANDY LOAM, COMPACTED IN 200mm LAYERS TO 98% OF STANDARD DENSITY TO AS1289.5.1.1.
- ANY PIPES OVER 16% GRADE SHALL HAVE CONCRETE BULKHEADS AT ALL JOINTS.
- PITS SHALL BE OF REINFORCED CONCRETE CONSTRUCTION AS DETAILED. METAL GRATES AT LEVELS INDICATED. ALL PITS DEEPER THAN 1200mm TO HAVE CLIMB IRONS. ALL PITS DEEPER THAN 1500mm TO BE CONSTRUCTED OF STEEL REINFORCED CONCRETE. PITS SHALL BE BENCHED AND STREAMLINED.
- BUILD INTO UPSTREAM FACE OF ALL PITS A 3.0m SUBSOIL LINE FALLING TO PITS TO MATCH PIT INVERT.
- SUBSOIL LINE PIPES AND FITTINGS SHALL BE PERFORATED CORRUGATED OR SMOOTH WALL UPVC, CLASS 400 TO AS2439 PART 1. LAY PIPES ON FLOOR OF TRENCH GRADED 1% AND OVERLAY WITH FILTER MATERIAL EXTENDING TO WITHIN 200mm OF SURFACE. PROVIDE FILTER FABRIC OF PERMEABLE POLYPROPYLENE BETWEEN FILTER MATERIAL AND TOPSOIL.
- DRAINAGE PITS MAY ONLY BE SUBSTITUTED WITH ALTERNATIVE PRE CAST PITS WITH THE PRIOR WRITTEN APPROVAL OF COUNCIL.
- LONGITUDINAL PIPELINES IN ROADS TO BE LOCATED UNDER KERB & GUTTER U.N.O. AND TO BE BACKFILLED WITH WASHED RIVER SAND.
- ALL INTERALLOTMENT STUB LOCATIONS ARE TO BE SURVEYED BY INSITES AND SHOWN ON WAE DRAWINGS. THE CONTRACTOR IS TO ADVISE ON WHEN THESE WILL BE AVAILABLE FOR INSPECTION AND SURVEY PRIOR TO BACKFILLING.

COUNCIL INSPECTIONS

- INSPECTION OF THE WORKS REQUIRED PURSUANT TO THE ENGINEERING APPROVAL ISSUED UNDER THE ROADS ACT 1995 MUST BE MADE BY COUNCIL'S CITY WORKS DEPARTMENT WHO CAN BE CONTACTED ON 4732 7777.
- A SITE INSPECTION IS REQUIRED PRIOR TO THE COMMENCEMENT OF WORK. A MINIMUM OF TWENTY-FOUR (24) HOURS NOTICE MUST BE GIVEN PRIOR TO ANY REQUIRED INSPECTION. A SCHEDULE OF MANDATORY INSPECTIONS IS LISTED IN COUNCIL'S WORK SPECIFICATION- CIVIL (CURRENT VERSION).
- PRIOR TO THE CONNECTION OF PRIVATE DRAINAGE TO COUNCIL'S DRAINAGE SYSTEM, AN INSPECTION IS TO BE CARRIED OUT BY PENRITH CITY COUNCIL'S DEVELOPMENT ENGINEERING UNIT

TREE PROTECTION

- NO NATIVE TREES OR OTHER VEGETATION (INCLUDING SHRUBS AND OTHER UNDERSTOREY VEGETATION) ARE TO BE REMOVED, RINGBARKED, CUT, TOPPED, LOPPED, SLASHED OR WILFULLY DESTROYED (OTHER THAN THOSE ON THE APPROVED LANDSCAPING PLAN BY NBR5+PARTNERS) WITHOUT THE PRIOR CONSENT OF PENRITH CITY COUNCIL AND IN ACCORDANCE WITH COUNCIL'S TREE PRESERVATION ORDER AND POLICY.
- PRIOR TO THE COMMENCEMENT OF ANY WORKS, THE TREES IDENTIFIED FOR RETENTION WILL BE MARKED AND PROTECTED AND CERTIFIED BY THE PROJECT ECOLOGIST. ALL THESE AREAS ARE TO BE LEFT UNDISTURBED AND CORDONED OFF.
- THERE IS TO BE NO STORAGE OF MATERIALS STOCKPILING OF EXCAVATED MATERIAL OR PARKING OF MACHINERY WITHIN 3 METRES OF ANY TREES TO BE RETAINED.
- PRIOR TO THE REMOVAL OF ANY BRANCHES OF THE TREES WHICH ARE TO BE RETAINED COUNCIL IS TO BE NOTIFIED AT LEAST 24 HOURS PRIOR TO ANY ACTIVITY AND THE WORK IS TO BE UNDERTAKEN BY A QUALIFIED ARBORIST.
- RE-INSPECTION OF TREES BY COUNCIL PRIOR TO CONSTRUCTION WORKS COMMENCING.

SURVEY

- ALL SURVEY INFORMATION PROVIDED FOR THIS PROJECT IS OBTAINED FROM INSITES.
- ALL LEVELS ARE TO A.H.D.
- ALL CHAINAGES AND LEVELS ARE IN METRES, DIMENSIONS FOR DETAILS AS SHOWN.
- CONTRACTORS SHALL ARRANGE FOR THE WORKS TO BE SET OUT BY A REGISTERED SURVEYOR.
- EXISTING SERVICES SHOWN SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.

GEOTECHNICAL NOTES

- SITE FILLING AND COMPACTION IS TO BE CARRIED OUT UNDER THE SUPERVISION OF A CHARTERED GEOTECHNICAL ENGINEER AND SHALL BE IN ACCORDANCE WITH PENRITH CITY COUNCIL'S CONSTRUCTION SPECIFICATION - DRAFT 2013
- ALL FILL SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE STANDARD MAXIMUM DRY DENSITY. ALL AREAS WHICH HAVE TEST RESULTS LESS THAN 95% STANDARD SHOULD BE REWORKED AND RETESTED TO ENSURE COMPLIANCE. IN ACCORDANCE WITH AS1289 TESTS 12 & 13.
- ALL FILL AREAS TO BE SURVEYED AT STRIPPING AND FINAL STAGES. THESE LEVELS AND 300mm DEPTH RANGES LEVELS ARE TO BE SHOWN ON PLAN SHADED. (TOGETHER WITH CROSS SECTIONS AT MAX. 20m C/C) AT WORK AS EXECUTED STAGE AND CONTROLLED BY A REGISTERED SURVEYOR.
- ALL TESTING WORKS SHALL BE CONTROLLED AND CERTIFIED BY A N.A.T.A. REGISTERED LABORATORY. A COLLATED COPY OF ALL TESTS CERTIFICATES, ACCOMPANIED BY AN OVERALL SITE PLAN, CLEARLY INDICATING THE LOCATION OF EACH TEST AND FILL AREAS ETC. AND THE LABORATORY CERTIFICATE COVERING THE WHOLE OF THE AREA TO BE FORWARDED TO THE SUPERINTENDENT UPON COMPLETION.

VEGETATION MANAGEMENT PLAN

- ALL RECOMMENDATIONS AND ACTIVITIES OF THE APPROVED VEGETATION MANAGEMENT PLAN BY SLR FORM, CONDITIONS OF CONSENT FOR THIS DEVELOPMENT.
- AREAS CORDONED OFF AND LABELLED AS THE VEGETATED MANAGEMENT AREA ARE TO BE PROTECTED AT ALL TIMES. NO WORKS ARE TO OCCUR AND NO PERSON IS TO ENTER THESE AREAS UNLESS APPROVED BY THE PROJECT ECOLOGIST OR BUSH REGENERATION TEAM.
- ALL SITE PERSONNEL ARE TO BE INDUCTED INTO THE VEGETATION MANAGEMENT PLAN PRIOR TO COMMENCEMENT OF WORKS.

NOTE

THE CONTRACTOR MUST OBTAIN A CURRENT D.B.Y.D. SEARCH BEFORE COMMENCING WORK AND SHALL POTHOLE TO CONFIRM THE LOCATION & LEVEL OF ALL SERVICES PRIOR TO COMMENCING ANY PHYSICAL WORK ON THE SITE. ANY POTENTIAL CONFLICT SHALL BE ADVISED TO THE DESIGNER FOR RESOLUTION.

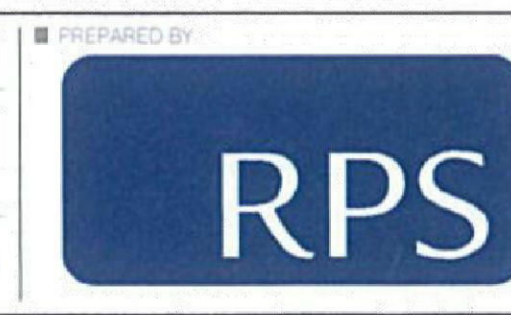
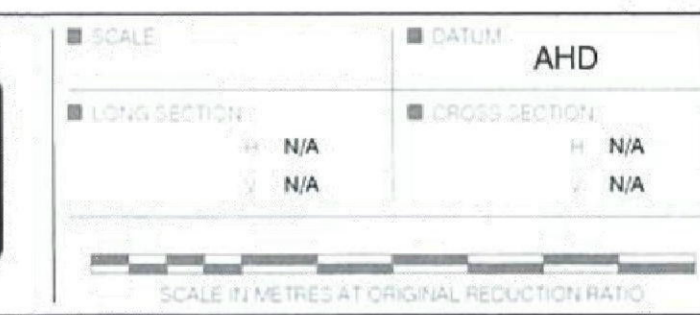
WORK AS EXECUTED

Final Issue: 11-05-2015

ISSUE FOR C.C.

NO.	DATE	REVISION DETAILS	BY
C	22.10.14	AMID LINE 5, REDUCED LOT REGRADING(10-13), RETND TREES	S.W.
B	08.10.14	REISSUE FOR COUNCIL AMENDMENTS	S.W./K.G.
A	29.07.14	ISSUE FOR C.C.	K.G.

NOTES
 THIS IS A COLOURED PLAN. REPRODUCTION IN COLOUR ONLY.
 1. ORIGIN OF LEVELS 59M 9735 R.L.50.93 DATUM AHD

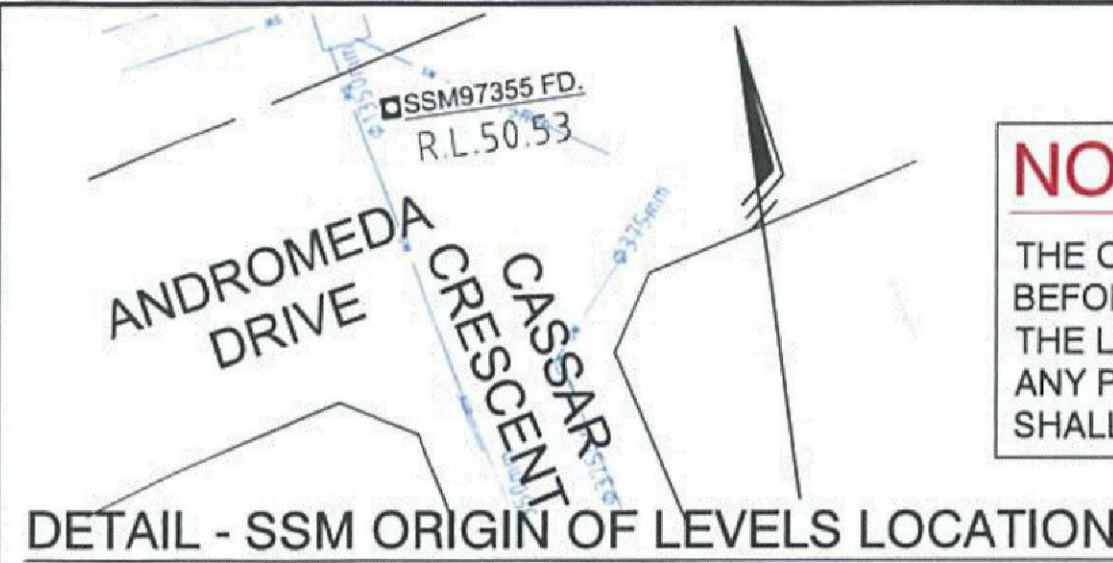


NO.	DATE	REVISION DETAILS	BY
1	17.10.14	Survey	S.W.
2	12.11.14	Survey	S.W.
3	12.11.14	Survey	S.W.
4	12.11.14	Survey	S.W.
5	12.11.14	Survey	S.W.
6	12.11.14	Survey	S.W.
7	12.11.14	Survey	S.W.
8	12.11.14	Survey	S.W.
9	12.11.14	Survey	S.W.
10	12.11.14	Survey	S.W.
11	12.11.14	Survey	S.W.
12	12.11.14	Survey	S.W.
13	12.11.14	Survey	S.W.
14	12.11.14	Survey	S.W.
15	12.11.14	Survey	S.W.

NO.	DATE	REVISION DETAILS	BY
1	18.01.13	Survey	C.L.B.F.
2	29.07.14	Survey	K.G.
3	22.10.14	Survey	K.G./B.L.
4	29.07.14	Survey	B.L.

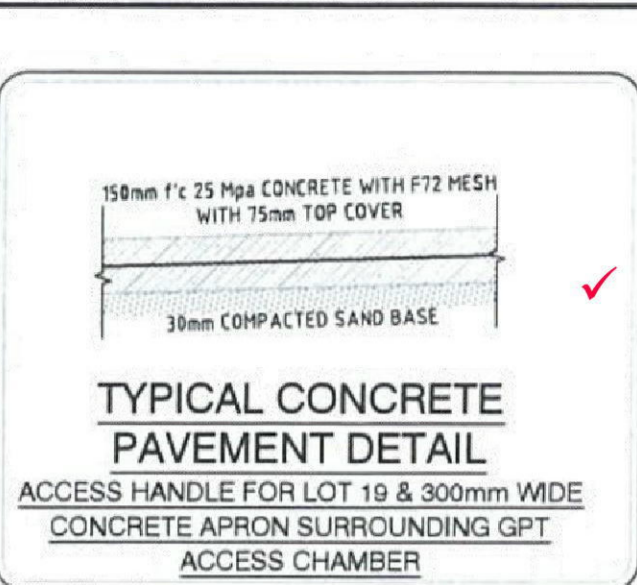
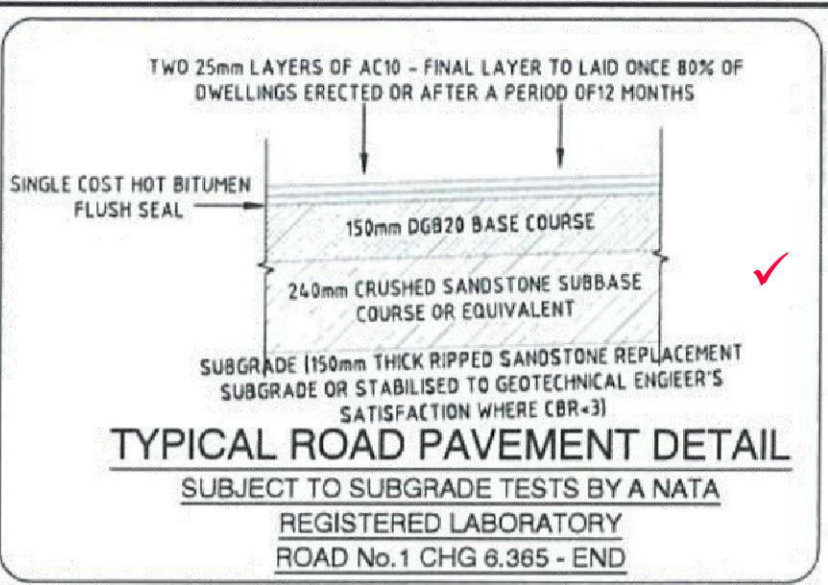
COVER SHEET & LOCALITY SKETCH
 CIVIL WORKS
 SUBDIVISION OF LOT 1 DP 1144668
 ANDROMEDA DRIVE, CRANEBROOK

1117EG
 E1-1
 SHEET 1 OF 15 SHEETS
 A1



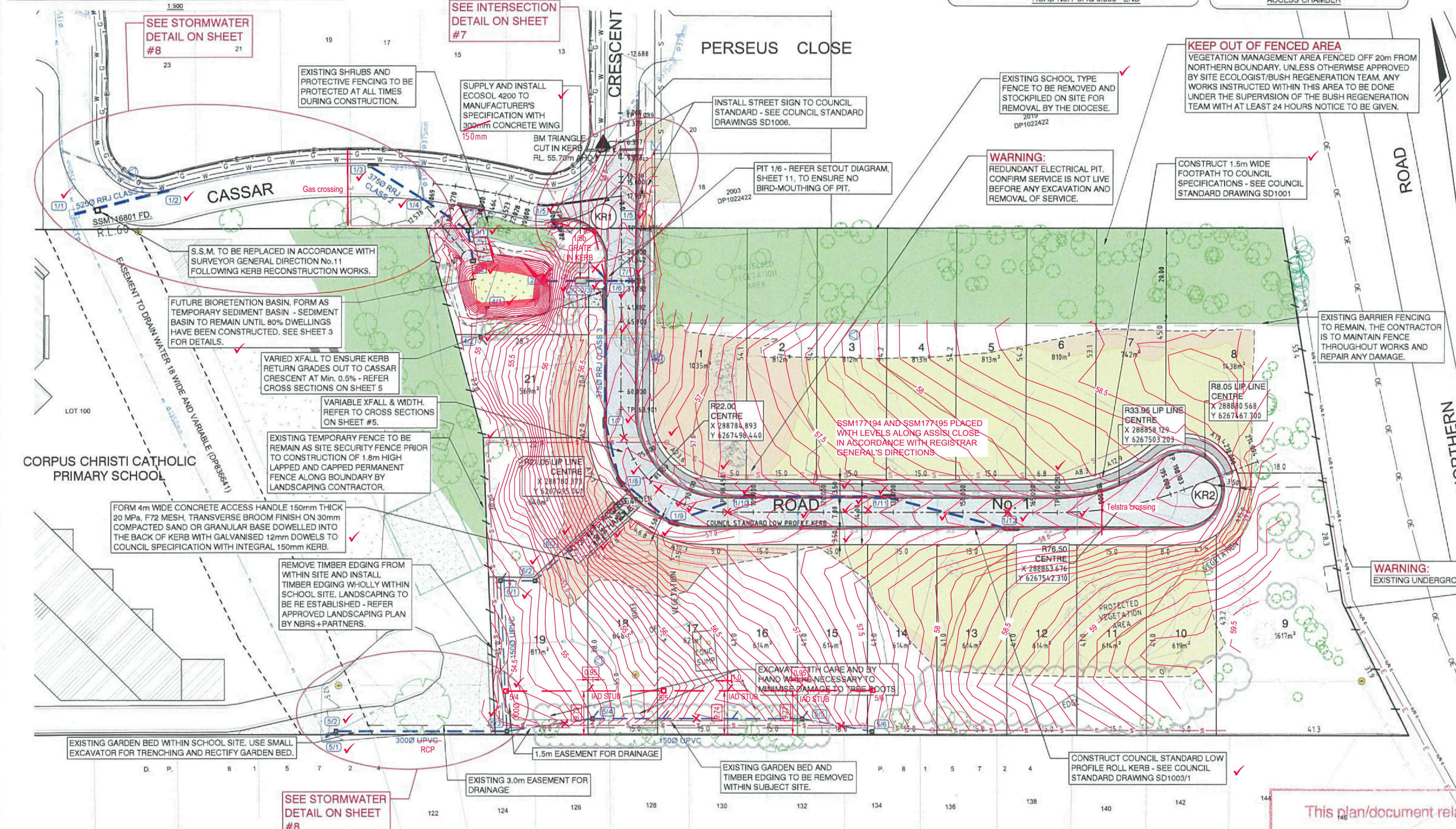
NOTE
THE CONTRACTOR MUST OBTAIN A CURRENT D.B.Y.D. SEARCH BEFORE COMMENCING WORK AND SHALL POTHOLE TO CONFIRM THE LOCATION & LEVEL OF ALL SERVICES PRIOR TO COMMENCING ANY PHYSICAL WORK ON THE SITE. ANY POTENTIAL CONFLICT SHALL BE ADVISED TO THE DESIGNER FOR RESOLUTION.

NOTE
THE CONTRACTOR IS TO USE LIGHT MACHINERY OVER ALL PIPES LAID ALONG AND UNDER ROAD 1. DUE TO THE SHALLOW PIPE COVER.



LEGEND

- CONSTRUCT AC PAVEMENT - REFER TO DETAIL
- CONSTRUCT CONCRETE ACCESS HANDLE - REFER TO DETAIL ON SHEET # 4
- CONSTRUCT 1.5 WIDE FOOTPATH
- LOT REGRADING/FILLING (Min. 1% TO KERB)
- LOT REGRADING/CUT (Min. 1% TO KERB)
- DENOTES FUTURE BIORETENTION BASIN
- KR1 KERB RETURN NUMBER. REFER TO CORRESPONDING KERB RETURN PLAN FOR DETAIL.
- 4/17 DENOTES STORMWATER INFRASTRUCTURE TO BE CONSTRUCTED - REFER SHEETS #9 & 10.
- SS INSTALL SUBSOIL DRAINAGE TO COUNCIL STANDARDS AND AS INSTRUCTED BY THE SUPERINTENDENT
- DENOTES VEGETATION MANAGEMENT AREA - DO NOT ENTER WITHOUT APPROVAL FROM SITE ECOLOGIST/BUSH REGENERATION TEAM
- S DENOTES PROPOSED SEWER LOCATION (REFER TO APPROVED SEWER PLAN BY QALCHEK)
- PROPOSED SERVICE CONDUIT LOCATIONS (REFER TO APPROVED SEWER PLAN BY CONNECT, QALCHEK, TELSTRA & JEMENA)
- DENOTES PROPOSED EXTERNAL WORK FOR SERVICES IN ROAD RESERVES. INTERNAL WORKS SHOWN ON APPROVED DRAWINGS BY SERVICE PROVIDERS.
- DENOTES EXISTING STORMWATER
- DENOTES EXISTING DEEP SEWER TO REMAIN
- DENOTES APPROX EXISTING SERVICES LOCATION (D.B.Y.D.)
- DENOTES EXISTING TREE AS PER SURVEY
- DENOTES EXISTING TREE TO BE REMOVED
- DENOTES APPROX SIGNIFICANT TREE TO BE PROTECTED DURING WORKS
- DENOTES EXISTING LANDSCAPED GARDEN AREA WITHIN SCHOOL CONTAINING SMALL TREES AND SHRUBS. ANY DISTURBED AREA TO BE RECTIFIED AS SOON AS PRACTICABLE UPON COMPLETION OF CIVIL WORKS IN THIS AREA.



PIT TABLE

Pit No.	Pit Description
1/1	EXISTING LETTER BOX PIT
1/2	EXISTING 1.8m LINTEL
1/3	1.8m LINTEL
1/4	EXISTING 1.8m LINTEL
1/5	EXISTING 1.8m LINTEL
1/6	0.9m LINTEL
1/7	1.8m LINTEL
1/8	1.8m LINTEL

1/9	1.8m LINTEL
1/10	1.8m LINTEL
1/11	3.0m LINTEL
1/12	3.0m LINTEL
2/1	HEADWALL 375Ø
2/2-2/3	ECOSOL 4200 GPT
3/1	800X900 JUNCTION PIT
3/2	600X900 LETTERBOX PIT
4/1	HEADWALL 150Ø
4/2	600X600 GRATED SURFACE INLET PIT
5/1	EXISTING LETTER BOX PIT
5/2	600X600 JUNCTION PIT

5/3	600X600 GRATED SURFACE INLET PIT
5/4	600X600 GRATED SURFACE INLET PIT
5/5	600X600 GRATED SURFACE INLET PIT
5/6	600X600 GRATED SURFACE INLET PIT
6/3	600X600 GRATED SURFACE INLET PIT WITH HEAVY DUTY LID
6/2	800X900 GRATED JUNCTION PIT
6/1	600X600 GRATED SURFACE INLET PIT
7/1	2.4m LINTEL - SAG
8/1	EXISTING GRATED INLET PIT WITHIN SCHOOL CULDESAC

WORK AS EXECUTED DRAWINGS

I hereby certify that:

- All construction has been carried out in accordance with the approved engineering drawings with regard to location and level, as shown by a red tick, or any variation has been noted in red text.
- All pipes, structures and services are located within their respective easements.
- All construction within private land has appropriate easement, right of way or restriction as to user over the whole of the structure.

Signed: *B. Frank* Registered Surveyor
Date: 11-05-2015

This plan/document relates to
DA No. CCX No.
130288-02 140030
Section 138 of the Roads Act
PENRITH CITY COUNCIL

This plan/document relates to
DA No. CCX No.
130288-02 140030
Environmental Planning & Assessment Act
PENRITH CITY COUNCIL

- NOTES**
- CONTRACTOR IS TO REMOVE AND DISPOSE OF OFF SITE ALL REDUNDANT SERVICES, CONCRETE FOOTINGS, FENCES, RUBBISH, etc - REFER PLAN - REDUNDANT SERVICES, ETC TO BE REMOVED' (SHEET #12) FOR DETAILS.
 - DRAINAGE HOLES TO BE PROVIDED IN KERB AT LOW SIDE OF ALL LOTS WITHIN SUBDIVISION WHICH DRAIN TO ROADS BY CORING. KERB OUTLETS TO BE HOT DIPPED GALVANISED STEEL AND TO MATCH THE PROFILE OF THE KERB WITH KERB ADAPTOR (INTERNAL ROADS INCLUDED) AND EXISTING ADJACENT LOT - No. 20 CASSAR CR., INSTALL 100mm UPVC CONDUIT WITHIN THE FOOTPATH AREA FOR LOTS THAT DRAIN TO THE FRONT WHERE A CONCRETE FOOTPATH IS TO BE CONSTRUCTED.
 - REFER TO LOT SETOUT (SHEET #6) FOR SETOUT DETAIL FOR FILLING/REGRADING.
 - SEE SHEET #8 FOR TYPICAL ROAD SECTION.
 - REFER TO BIORETENTION DETAIL PLAN FOR CONSTRUCTION DETAIL OF SEDIMENTATION BASIN (SHEET #3).
 - REFER TO SHEET #11 SETOUT OF DRAINAGE INFRASTRUCTURE

No.	DATE	REVISION DETAILS
C	22.10.14	AMD D LINE 5, REDUCED LOT REGRADING(10-13), RETND TREES
B	08.10.14	REISSUE FOR COUNCIL AMENDMENTS
A	29.07.14	ISSUE FOR C.C.

THIS IS A COLOURED PLAN. REPRODUCTION IN COLOUR ONLY.

1. ORIGIN OF LEVELS SSM 97355 R.L.50.53 DATUM AHD

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SCALE 1:500

DATUM AHD

PREPARED BY

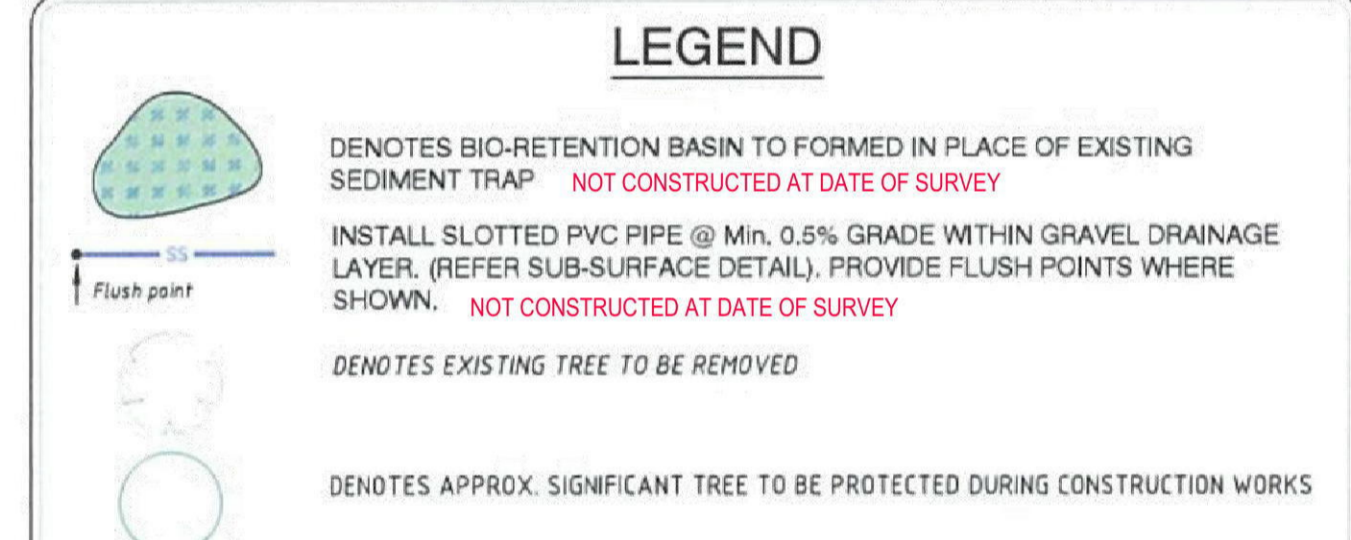
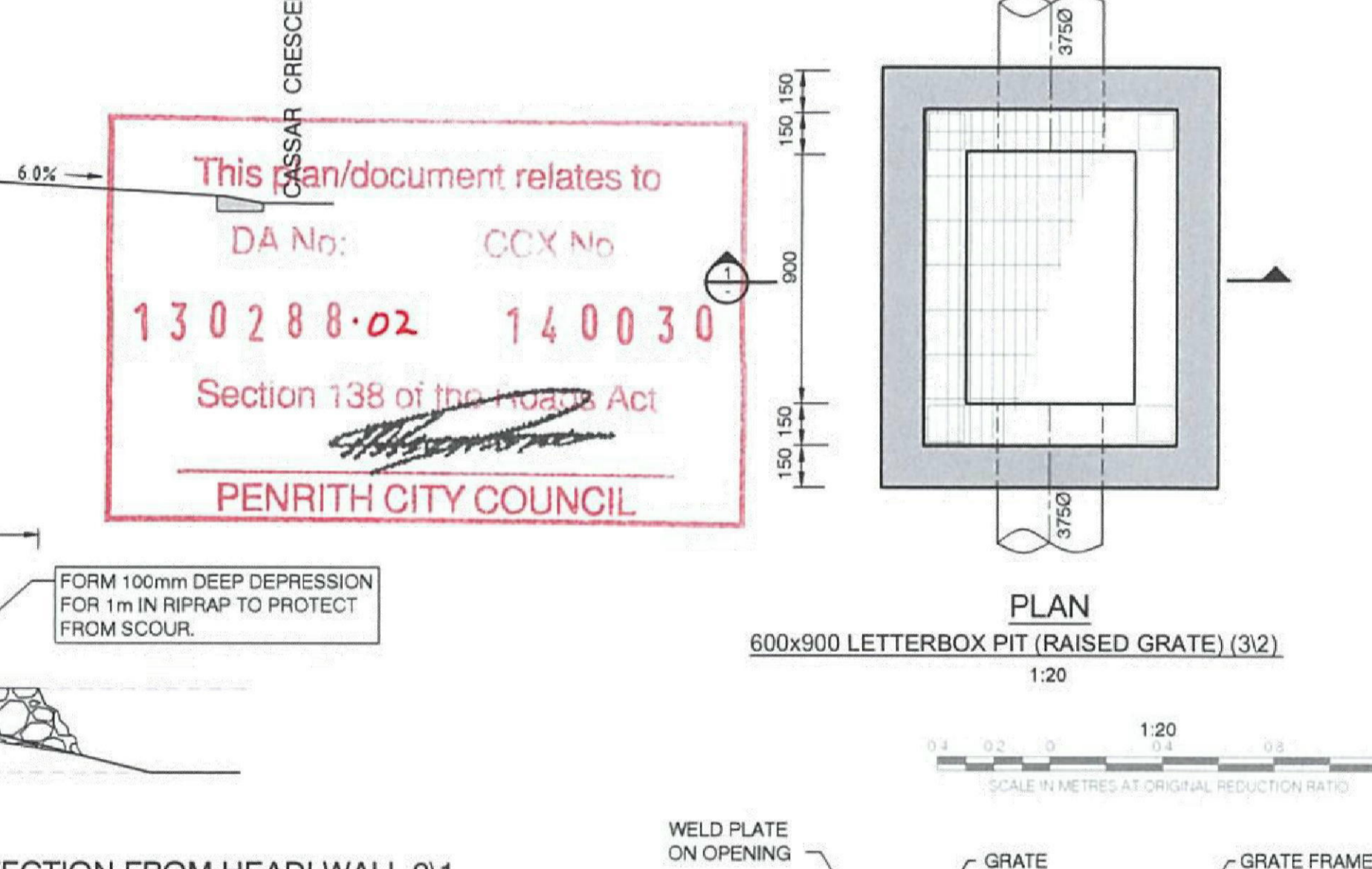
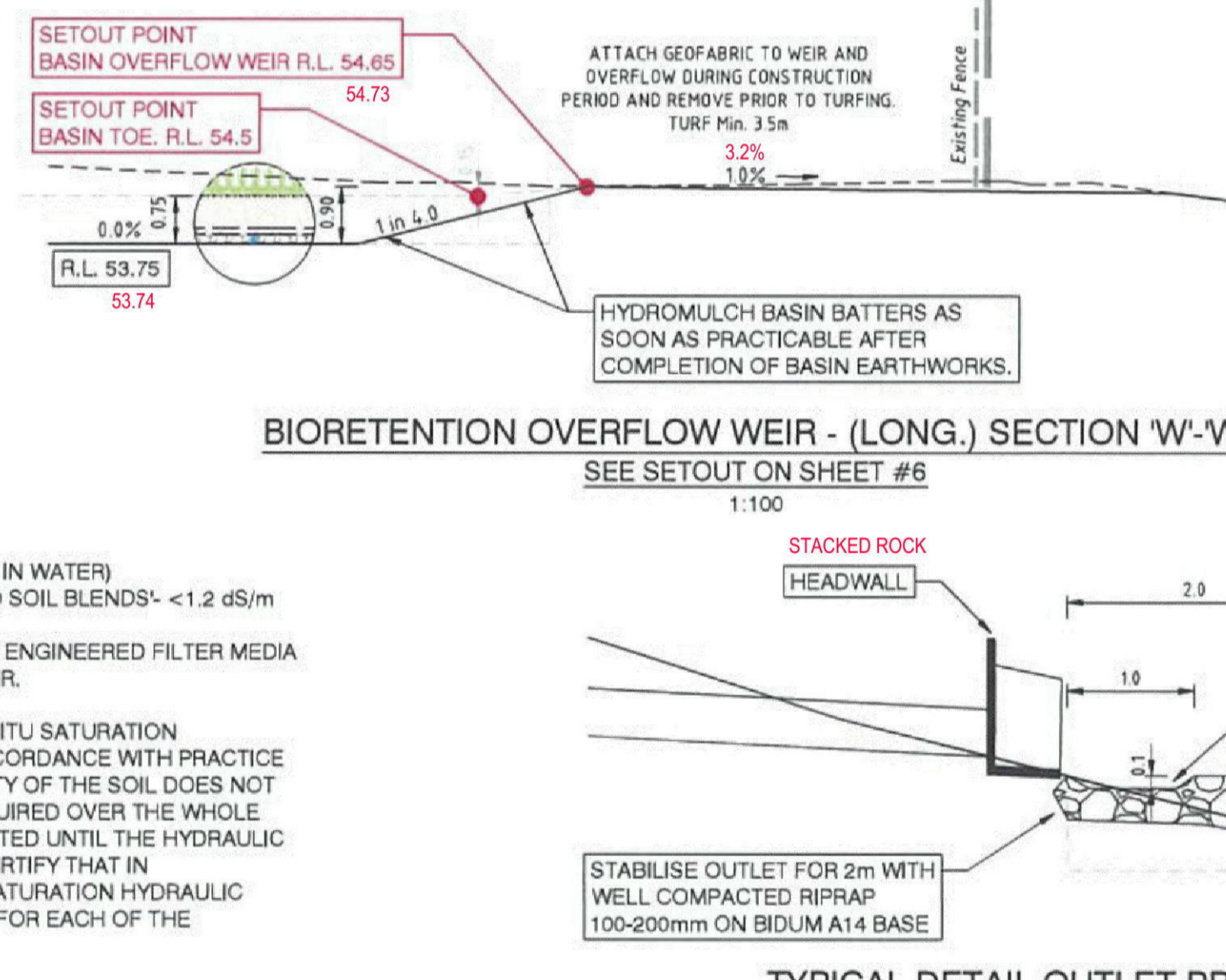
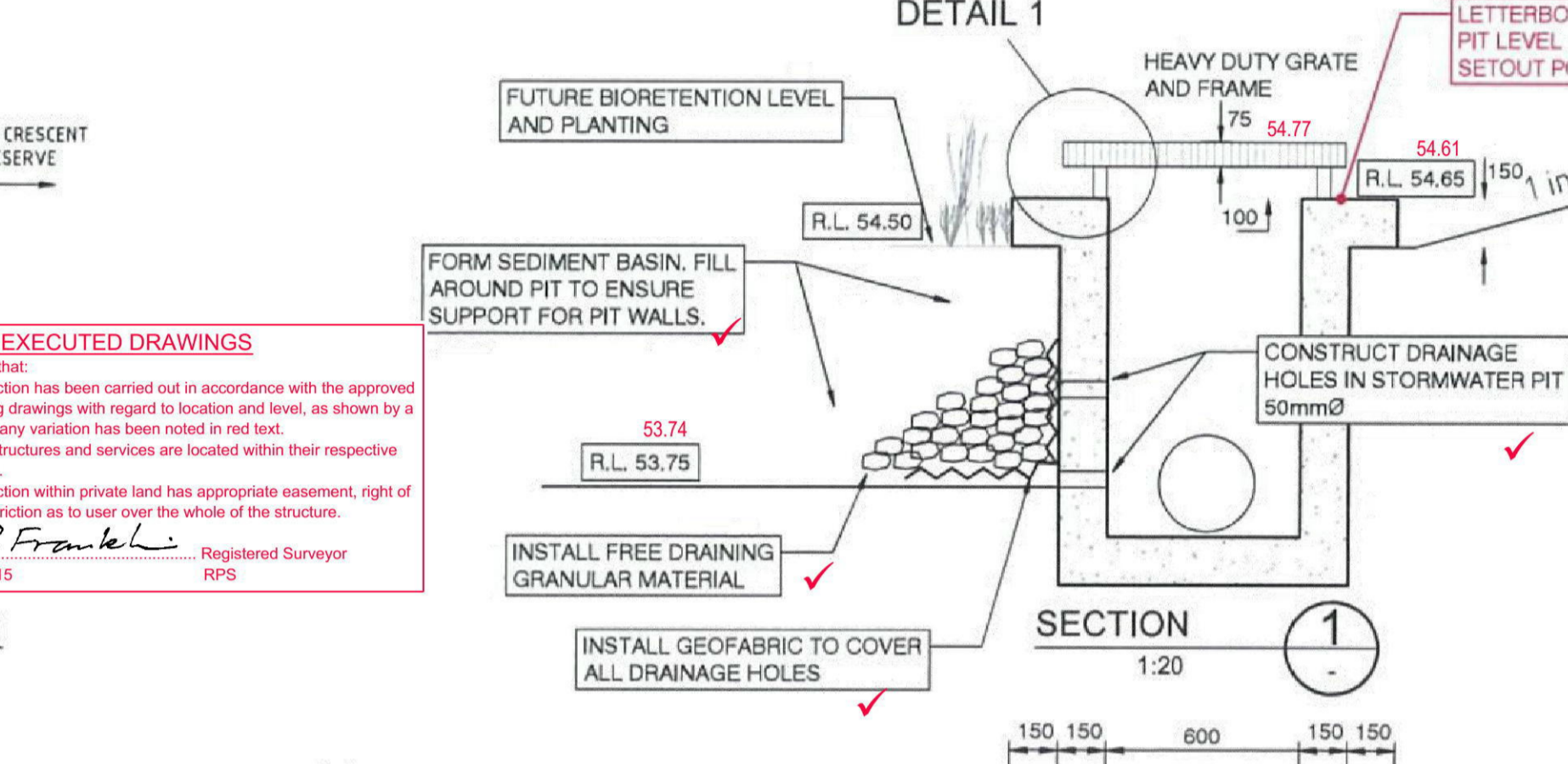
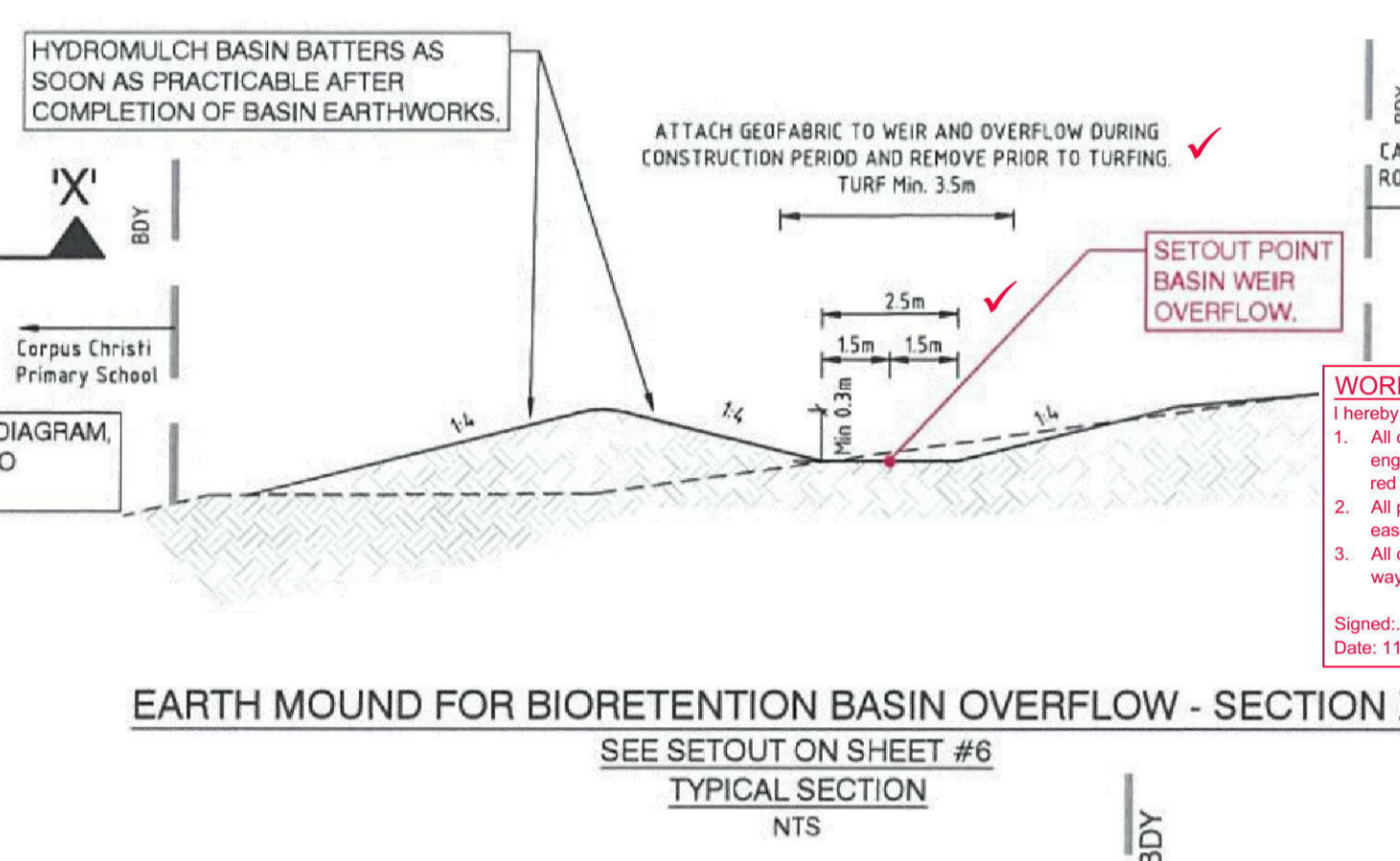
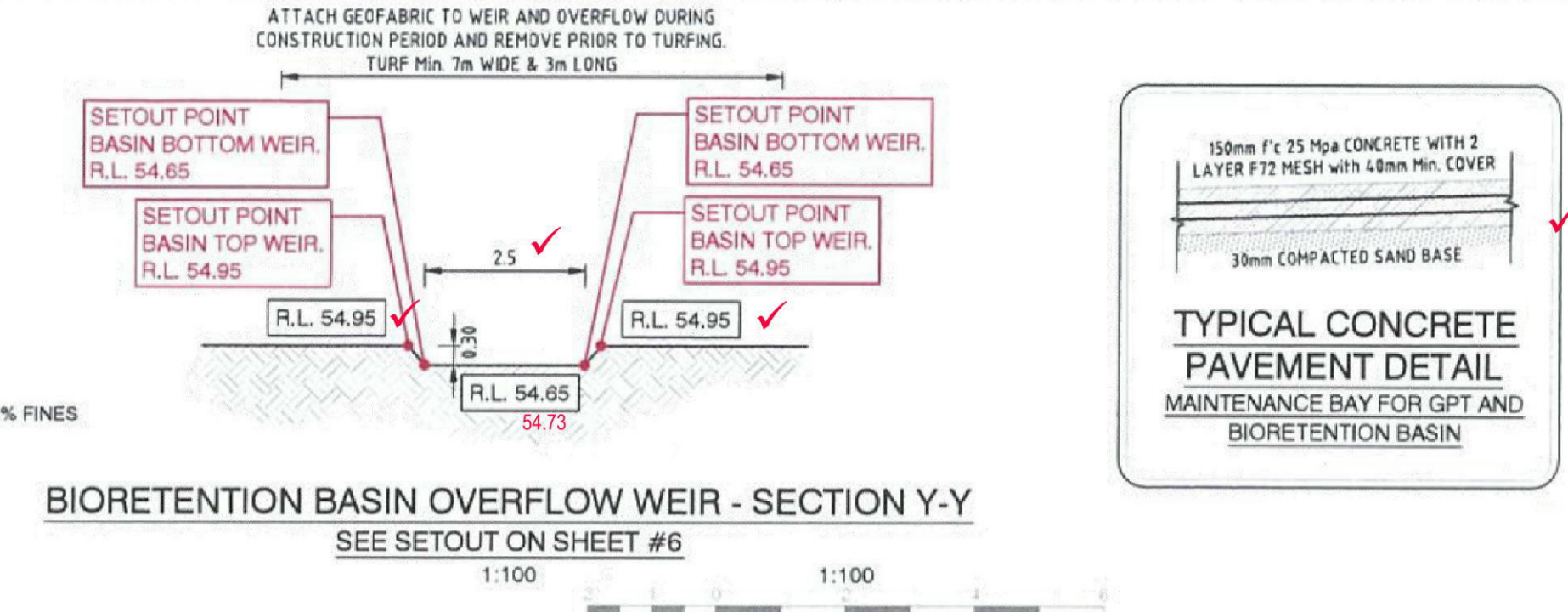
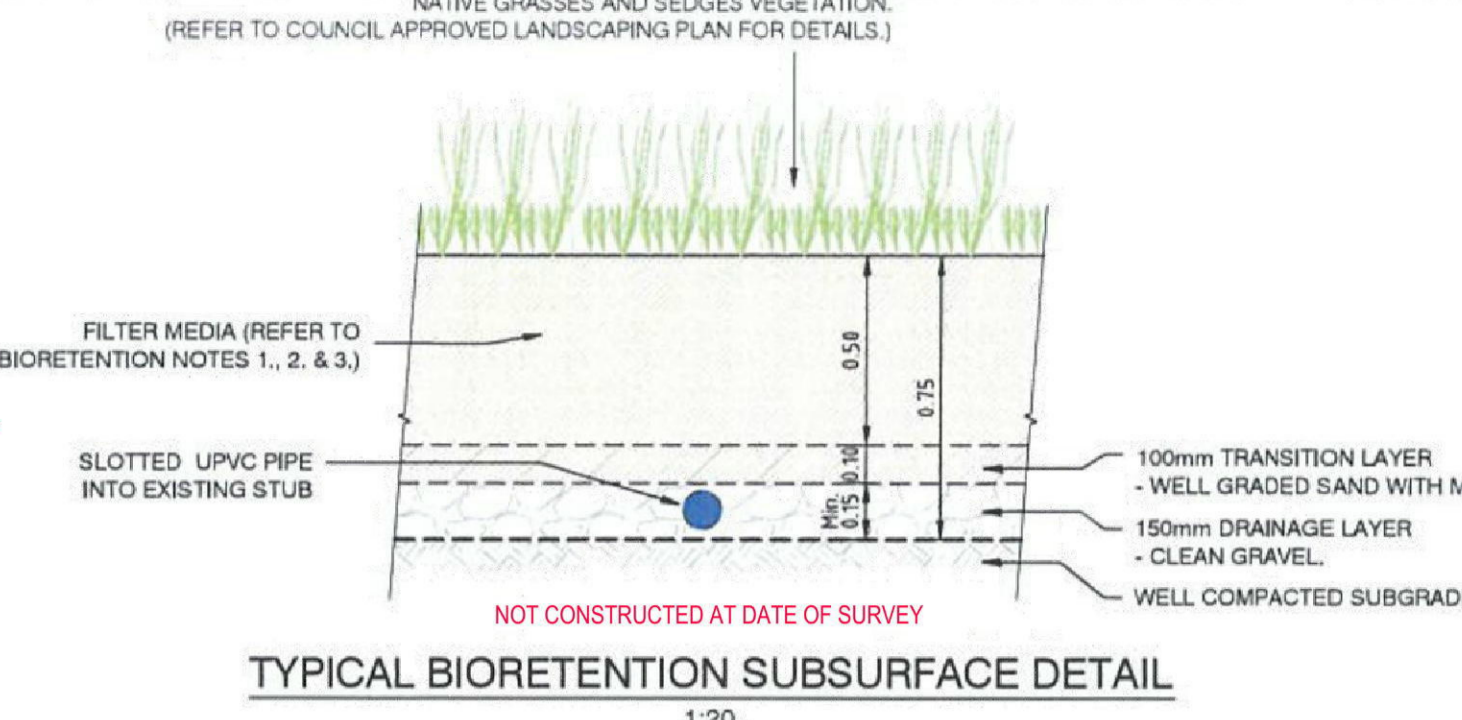
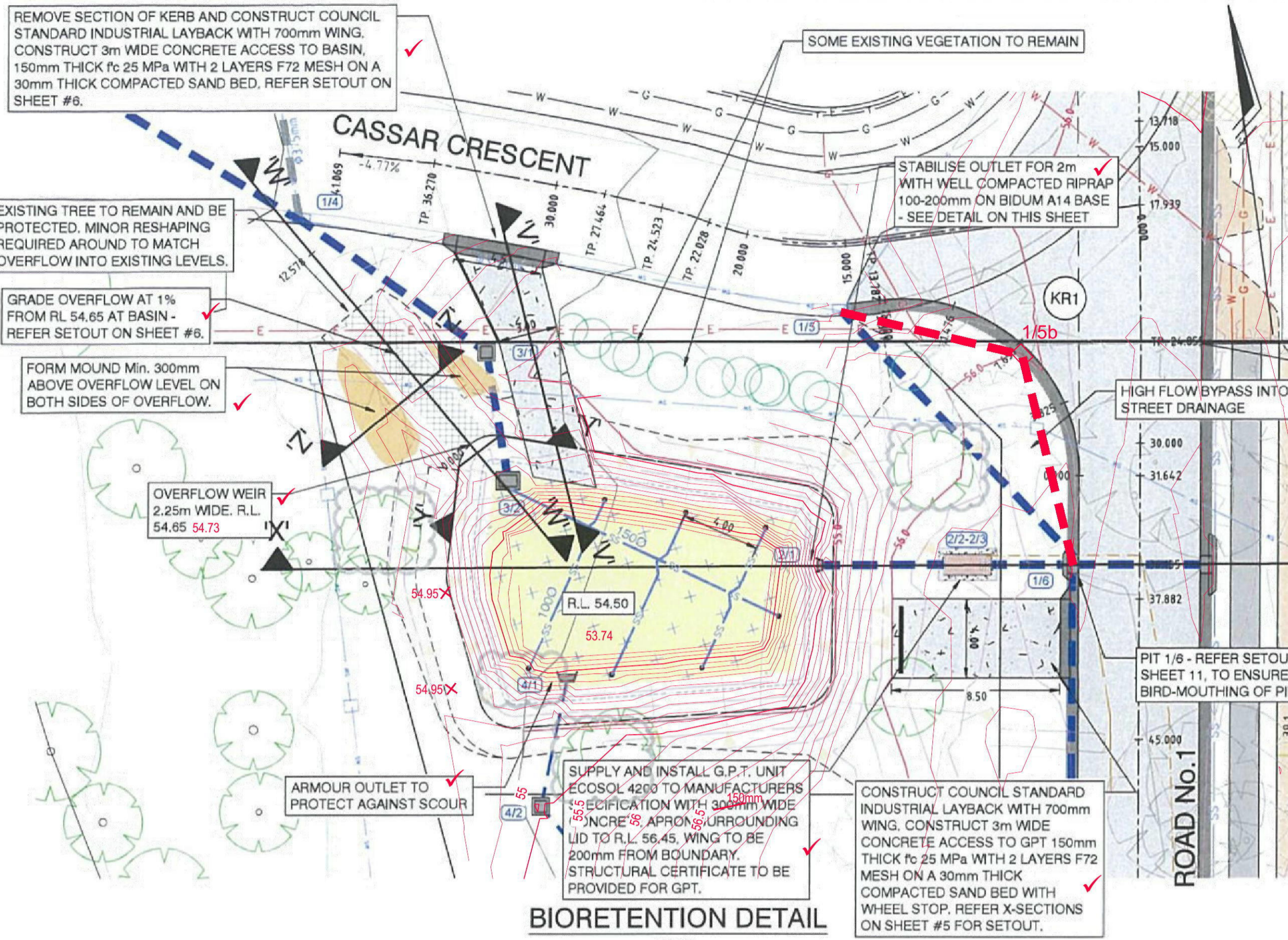
RPS
rpsgroup.com

CLIENT	TITLE
THE TRUSTEES OF THE ROMAN CATHOLIC CHURCH FOR THE DIOCESE OF PARRAMATTA	PLAN CIVIL WORKS
SURVEY CL.B.F.	DATE OF SURVEY 18.01.13
DRAWN K.G.	DATE OF PLAN 29.07.14
DESIGNED K.G./B.L.	DATE LAST SAVED 22.10.14
APPROVED B.L.	DATE APPROVED 29.07.14

WORK AS EXECUTED Final Issue: 11-05-2015 ISSUE FOR C.C.

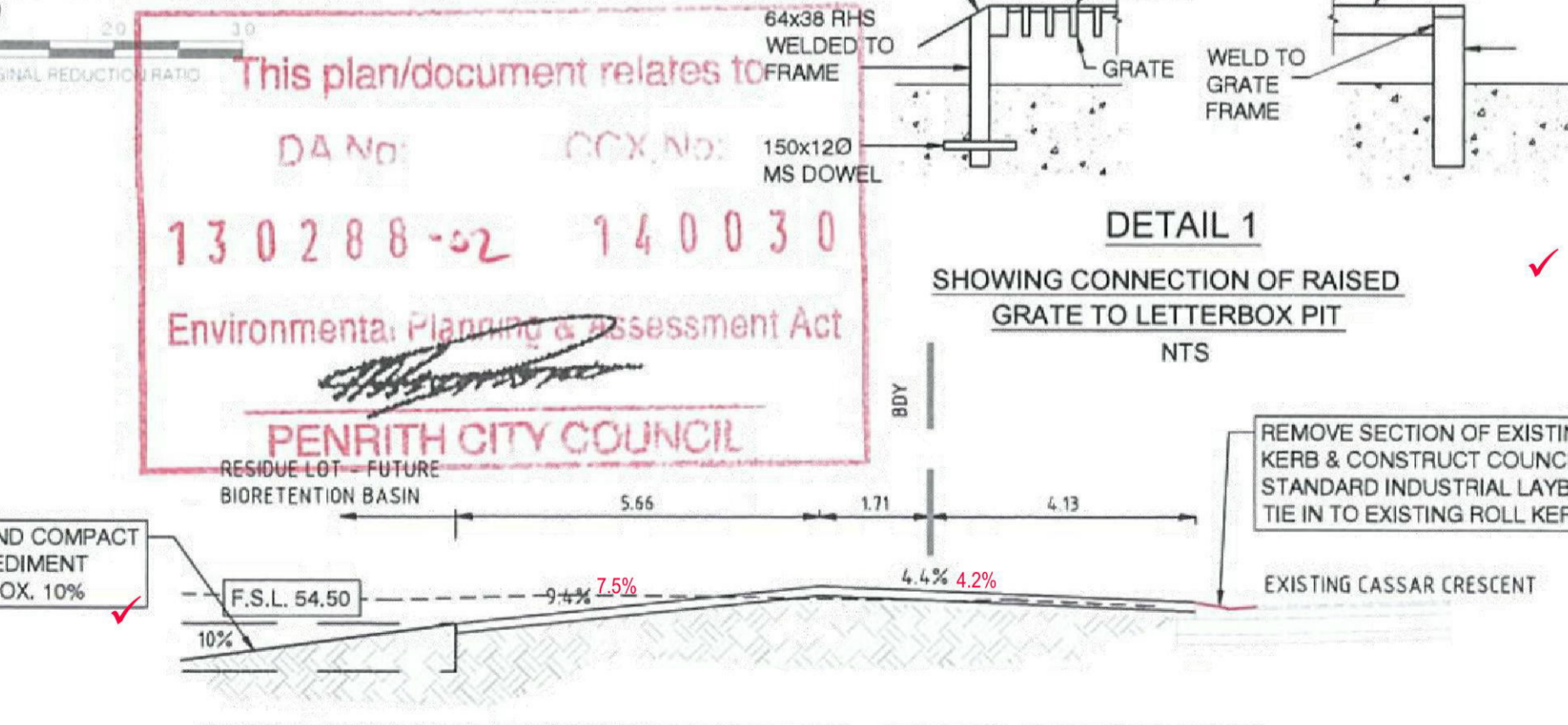
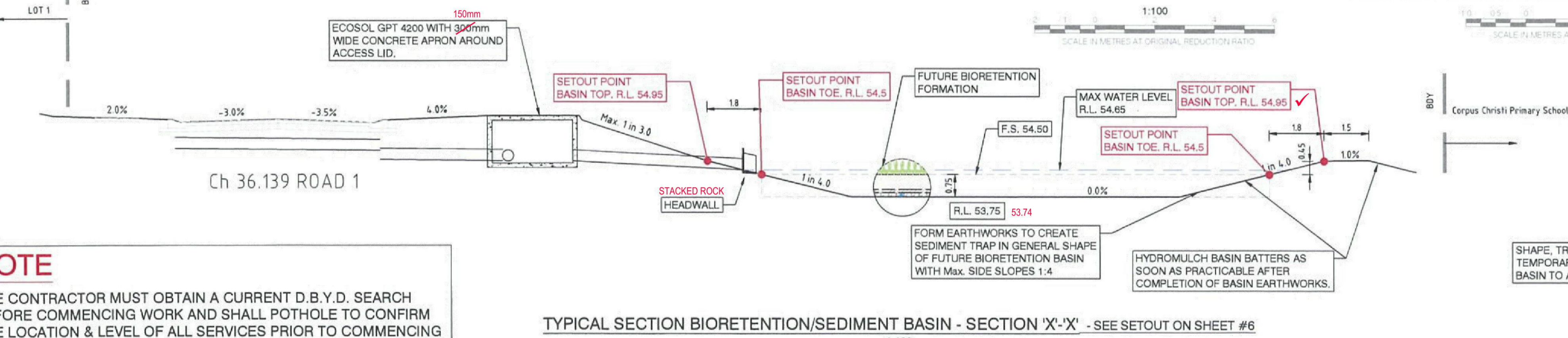
PLAN CIVIL WORKS
SUBDIVISION OF LOT 1 DP 1144668
ANDROMEDA DRIVE, CRANE BROOK

1117EG
E1-2
SHEET 2 OF 15 SHEETS



- BIO-RETENTION NOTES**
- HYDRAULIC CONDUCTIVITY OF 90-250mm/hr MUST BE WELL GRADED AND HAVE THE FOLLOWING PARTICLE SIZE DISTRIBUTION:
 - CLAY AND SILT <3% (<0.05mm)
 - VERY FINE SAND 5-30% (0.05-0.15mm)
 - FINE SAND 10-30% (0.15-0.25mm)
 - MEDIUM TO COARSE SAND 40-60% (0.25-1.0 mm)
 - COARSE SAND 7-10% (1.0-2.0mm)
 - FINE GRAVEL <3% (2.0-3.4mm)
 - SOIL-BASED FILTER MEDIA PROPERTIES:
 - TOTAL NITROGEN (TN) CONTENT- 800mg/kg (750-950mg/kg SUITABLE)
 - ORTHOPHOSPHATE (PO₄) CONTENT <55 mg/kg
 - ORGANIC MATTER CONTENT- AT LEAST 3% (w/w)
 - pH- AS SPECIFIED FOR 'NATURAL SOILS AND SOIL BLENDS'- 5.5-7.5 (pH 1:5 IN WATER)
 - ELECTRICAL CONDUCTIVITY (EC)- AS SPECIFIED FOR 'NATURAL SOILS AND SOIL BLENDS'- <1.2 dS/m
 - WHERE LOCALLY AVAILABLE SOIL-BASED MATERIAL IS NOT AVAILABLE AN ENGINEERED FILTER MEDIA MAY BE USED TO THE SPECIFICATION SET BY THE SUPERVISING ENGINEER.
 - PRIOR TO HANDOVER A GEOTECHNICAL ENGINEER IS TO UNDERTAKE INSITU SATURATION HYDRAULIC CONDUCTIVITY TESTING THE BIORETENTION SYSTEMS IN ACCORDANCE WITH PRACTICE NOTE 1 OF THE FAWB GUIDELINES. WHERE THE HYDRAULIC CONDUCTIVITY OF THE SOIL DOES NOT ACHIEVE 90-250mm PER HOUR, THEN REMEDIATION WORKS WILL BE REQUIRED OVER THE WHOLE FILTER AREA TO RESTORE THE CONDUCTIVITY, THE TEST IS TO BE REPEATED UNTIL THE HYDRAULIC CONDUCTIVITY IS ACHIEVED, A GEOTECHNICAL ENGINEER IS THEN TO CERTIFY THAT IN ACCORDANCE WITH PRACTICE NOTE 1 OF THE FAWB GUIDELINES, THE SATURATION HYDRAULIC CONDUCTIVITY IS WITHIN TOLERANCE TO THE RATE SPECIFIED IN MUSIC FOR EACH OF THE BIORETENTION SYSTEMS.

- SEDIMENT BASIN NOTES**
- BIORETENTION BASIN IS TO BE CONSTRUCTED ONCE 80% OF DWELLINGS HAVE BEEN CONSTRUCTED.
- CONTRACTOR IS TO FORM SEDIMENT BASIN AS PER SETOUT ON SHEET #6 AND DETAILS SHOWN ON THIS SHEET.
 - THE WEIR TO THE BASIN AND OVERFLOW PATH TO CASSAR CRESCENT AND ASSOCIATED EARTH MOUND ARE TO BE TURFED WITH KIKUYU TURF ON COMPLETION OF SHAPING OF THE BASIN.
 - ALL BATTERS INTO AND SURROUNDING THE BASIN ARE TO BE HYDROMULCHED UPON COMPLETION OF THE SHAPING OF THE BASIN.
 - THE SEDIMENT BASIN AND GPT ARE TO BE CLEANED OUT AS REQUIRED AND PRIOR TO PRACTICAL COMPLETION.



NOTE

THE CONTRACTOR MUST OBTAIN A CURRENT D.B.Y.D. SEARCH BEFORE COMMENCING WORK AND SHALL POTHOLE TO CONFIRM THE LOCATION & LEVEL OF ALL SERVICES PRIOR TO COMMENCING ANY PHYSICAL WORK ON THE SITE. ANY POTENTIAL CONFLICT SHALL BE ADVISED TO THE DESIGNER FOR RESOLUTION.

WORK AS EXECUTED Final Issue: 11-05-2015

NO.	DATE	REVISION DETAILS	BY
C	22.10.14	AMD'D TXT ERROR (4/1) RETAINED ADDITIONAL TREES	S.W.
B	08.10.14	MAINTENANCE BAYS ADDED, ADD' SECTIONS, NOTES AMENDED	S.W./K.G.
A	29.07.14	ISSUE FOR C.C.	K.G.

THIS IS A COLOURED PLAN. REPRODUCTION IN COLOUR ONLY.

1. ORIGIN OF LEVELS SSM 97355 R.L.50.53 DATUM AHD

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SCALE: 1:200 DATUM: AHD

LONG SECTION: H: N/A V: N/A

CROSS SECTION: H: 1:100 V: 1:100

SCALE IN METRES AT ORIGINAL REDUCTION RATIO

PREPARED BY: RPS

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ROLE	NAME	DATE
CLIENT	THE TRUSTEES OF THE ROMAN CATHOLIC CHURCH FOR THE DIOCESE OF PARRAMATTA	18.01.13
DRAWN	C.L.B.F.	29.07.14
CHECKED	K.G.	22.10.14
DESIGNED	K.G./B.L.	29.07.14
APPROVED	BL	29.07.14

BIORETENTION PLAN & DETAILS

CIVIL WORKS

SUBDIVISION OF LOT 1 DP 1144668 ANDROMEDA DRIVE, CRANE BROOK

JOB No: 1117EG

DATE: 29.07.14

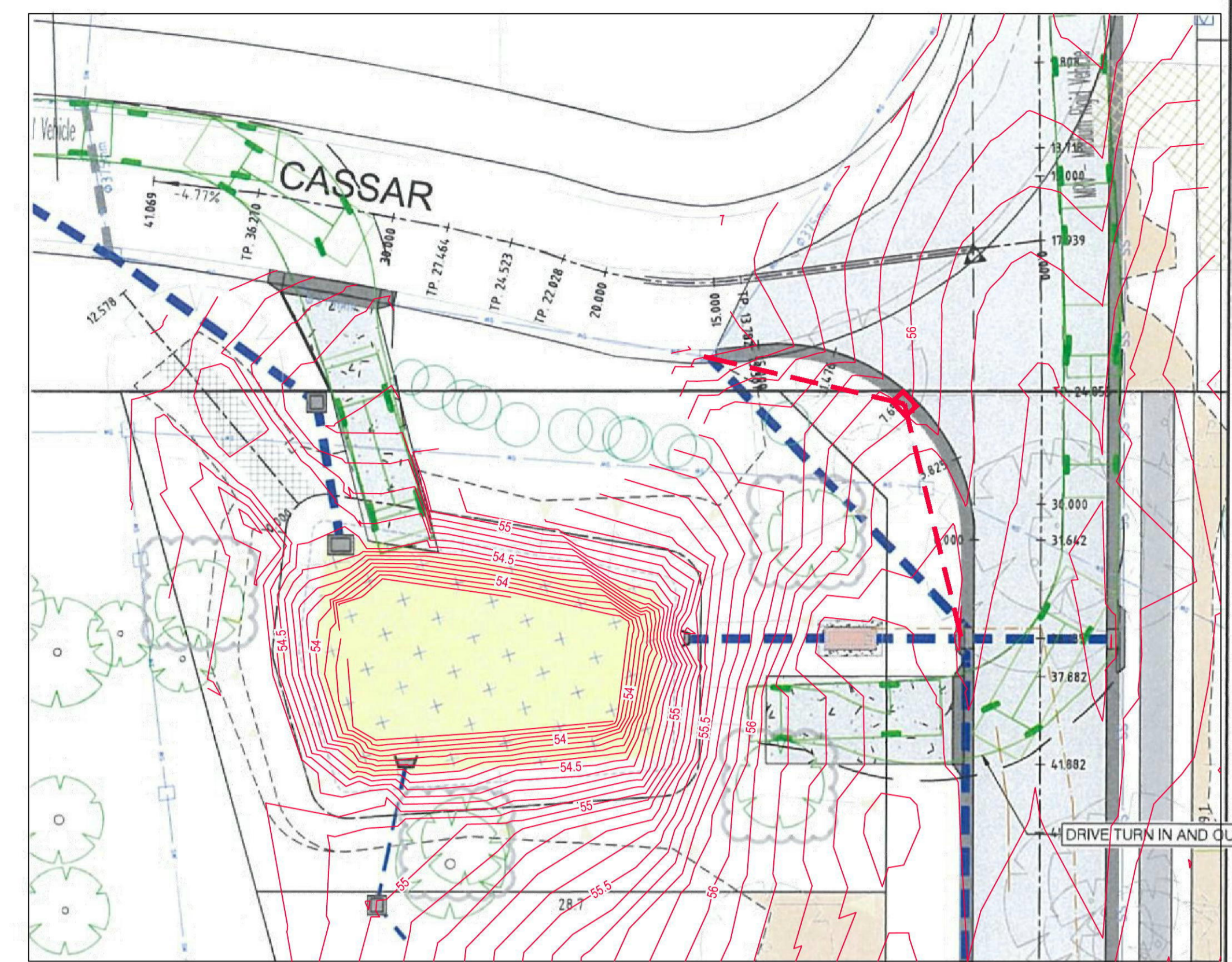
DATE LAST SAVED: 22.10.14

DATE APPROVED: 29.07.14

SHEET 3 OF 15 SHEETS

MAKE SMOOTH JUNCTION WITH EXISTING PAVEMENT AND KERB. LEFT SIDE KERB (RE-)CONSTRUCTION TO COMMENCE FROM DOWN STREAM LINTEL (APPROX. CHG 2.85). ENSURE NEW BACK OF KERB LEVELS TIE TO EXISTING DRIVE LEVELS THROUGH No.18 & No.20 CASSAR CRESCENT. REFER SHEET 7 FOR MORE DETAIL.

This plan/document relates to
 DA No: 130288-02 CCX No: 140030
 Section 138 of the Roads Act
 PENRITH CITY COUNCIL



CHAINAGE	EXISTING	DESIGN	CUT/FILL
-12.684	55.79	55.785	-0.007
0.000	55.88	55.886	-0.006
2.379	55.92	55.912	-0.011
3.001	55.92	55.921	-0.003
6.367	55.93	55.974	+0.044
8.000	55.92	56.005	+0.085
9.808	55.89	56.043	+0.152
12.999	55.84	56.120	+0.283
13.718	55.82	56.137	+0.318
15.000	55.85	56.172	+0.319
17.939	55.95	56.249	+0.296
19.859	56.06	56.299	+0.235
24.805	56.31	56.384	+0.073
24.859	56.38	56.385	+0.004
29.859	56.29	56.380	+0.092
31.642	56.32	56.367	+0.045
36.125	56.23	56.343	+0.118
36.139	56.23	56.343	+0.111
37.887	56.15	56.346	+0.193
40.882	56.02	56.368	+0.352
41.882	55.91	56.370	+0.465
45.000	55.91	56.412	+0.504
63.901	55.57	56.615	+1.049
75.000	55.69	56.734	+1.048
81.309	55.78	56.802	+1.023
90.000	55.98	56.895	+0.910
98.450	56.34	56.986	+0.649
104.672	56.66	57.053	-0.397
105.000	56.67	57.056	-0.383
119.672	57.37	57.230	-0.138
120.000	57.38	57.234	-0.167
134.672	57.83	57.439	-0.389
135.000	57.84	57.444	-0.394
150.000	58.30	57.669	-0.629
170.291	58.77	57.973	-0.798
180.000	58.84	58.119	-0.721
184.197	58.92	58.182	-0.743
195.000	58.98	58.344	-0.641
198.094	58.97	58.390	-0.580
198.103	58.97	58.390	-0.580
206.144	58.97	58.289	-0.684
206.594	58.97	58.350	-0.422
210.000	59.02	58.486	-0.524
210.094	59.02	58.486	-0.524
212.738	59.019	58.689	-0.689
214.994	59.02	58.689	-0.689

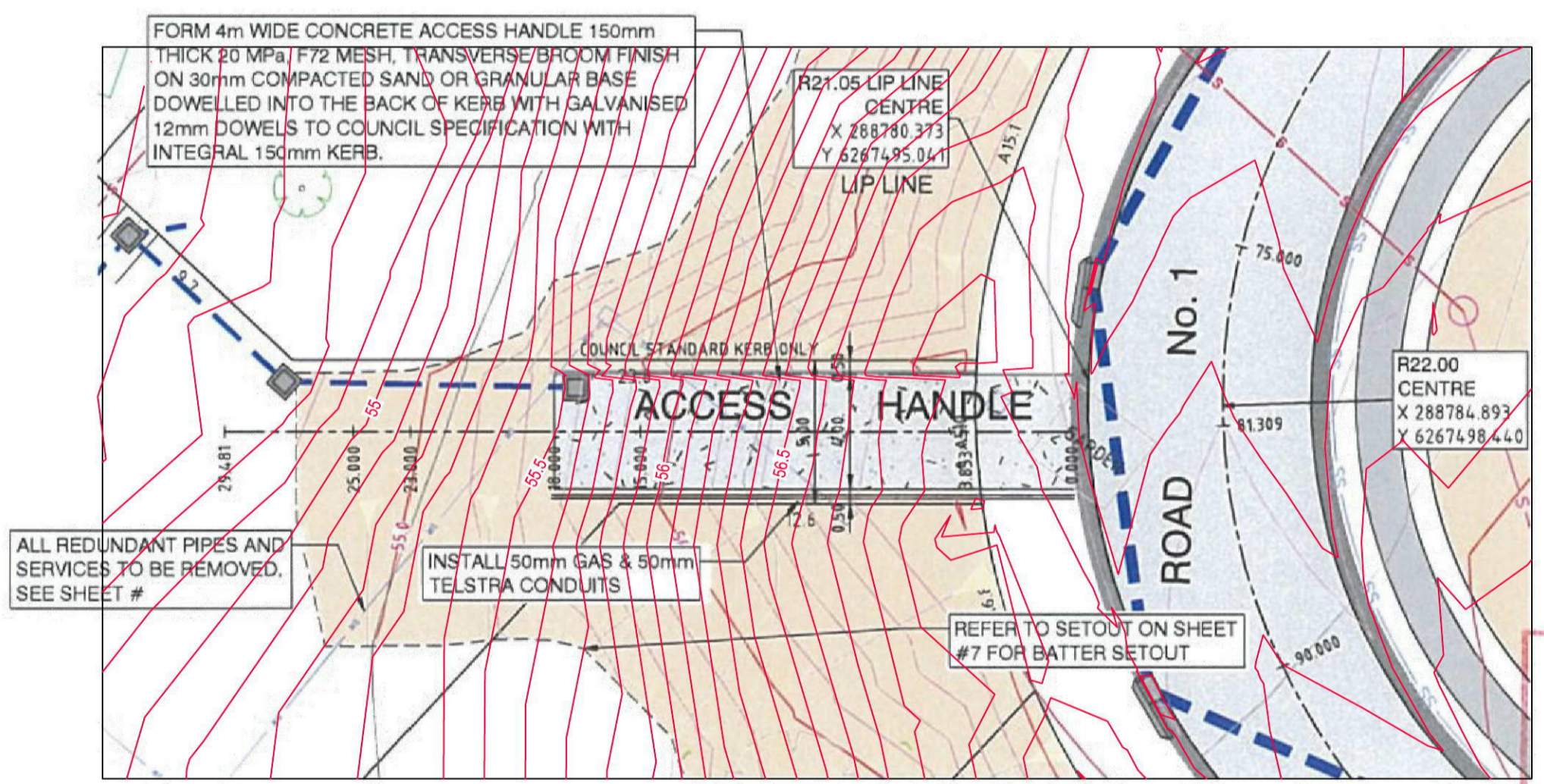
ROAD No. 1 - WITH CONNECTION INTO CASSAR CRESCENT (NORTH-SOUTH)
 H 1:500 V 1:100

MAINTENANCE ACCESS TURNING MANEUVERS - MEDIUM RIGID VEHICLES
 1:200

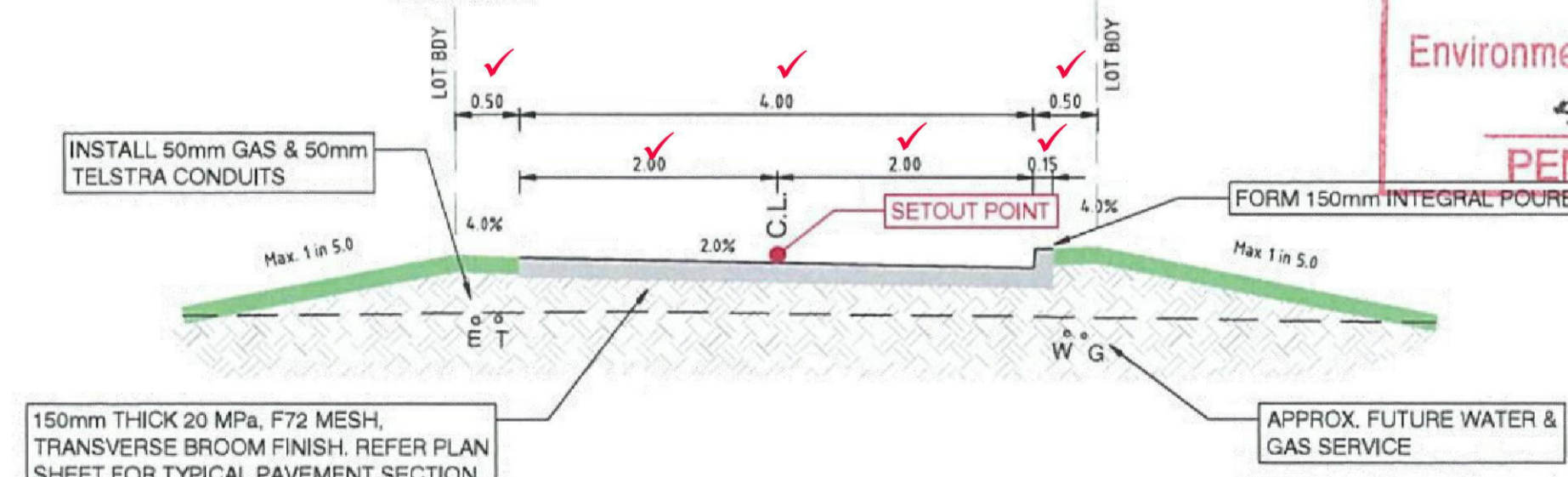
WORK AS EXECUTED DRAWINGS
 I hereby certify that:
 1. All construction has been carried out in accordance with the approved engineering drawings with regard to location and level, as shown by a red tick, or any variation has been noted in red text.
 2. All pipes, structures and services are located within their respective easements.
 3. All construction within private land has appropriate easement, right of way or restriction as to user over the whole of the structure.
 Signed: *B. Frankel*
 Date: 11-05-2015 Registered Surveyor RPS

CHAINAGE	EXISTING	DESIGN	CUT/FILL
0.000	55.76	56.785	+1.025
3.853	56.949	56.937	-0.012
6.853	56.829	56.795	-0.034
15.000	55.30	55.871	+0.571
18.000	55.16	55.519	+0.354
21.000	55.03	55.166	+0.131
23.000	54.95	54.973	-0.024
24.000	54.91	54.907	-0.001
25.000	54.86	54.862	-0.002
27.000	54.79	54.794	+0.004
29.481	54.71	54.88	+0.171

ACCESS HANDLE - LOT 19
 H 1:200 V 1:20



ACCESS HANDLE - LOT 19
 SCALE 1:200



ACCESS HANDLE TO LOT 19 - TYPICAL SECTION FROM CH. 3.853-18.000
 1:50

STRING	CHAINAGE	EASTING	NORTHING	LEVEL
Road 1	-5.000	288772.432	6267569.787	55.844
Road 1	0.000	288771.731	6267564.837	55.882
Road 1	0.239	288771.698	6267564.600	55.884
Road 1	2.379	288771.427	6267562.477	55.912
Road 1	6.367	288770.922	6267558.521	55.974
Road 1	9.808	288770.486	6267555.108	56.043
Road 1	13.718	288769.990	6267551.229	56.139
Road 1	15.000	288769.828	6267549.958	56.172
Road 1	17.939	288769.456	6267547.042	56.249
Road 1	24.805	288768.586	6267540.232	56.384
Road 1	31.642	288767.629	6267533.462	56.362
Road 1	36.139	288766.999	6267529.009	56.343
Road 1	37.882	288766.755	6267527.284	56.346
Road 1	40.882	288766.334	6267524.313	56.368
Road 1	45.000	288765.758	6267520.236	56.412
Road 1	63.901	288763.110	6267501.521	56.615
Road 1	75.000	288764.335	6267490.608	56.734
Road 1	81.309	288767.390	6267485.113	56.802
Road 1	90.000	288773.867	6267479.403	56.895
Road 1	98.450	288781.804	6267476.658	56.986
Road 1	105.000	288788.289	6267475.738	57.056
Road 1	120.000	288803.140	6267473.632	57.234
Road 1	135.000	288817.991	6267471.525	57.444
Road 1	150.000	288832.843	6267469.419	57.669
Road 1	170.291	288852.933	6267466.569	57.973
Road 1	180.000	288862.606	6267465.819	58.119
Road 1	184.197	288866.802	6267465.875	58.182
Road 1	195.000	288877.529	6267467.076	58.344
Road 1	198.103	288880.568	6267467.700	58.390
Cassar Crescent	0.000	288769.456	6267547.042	56.249
Cassar Crescent	3.429	288766.027	6267547.067	56.155
Cassar Crescent	10.000	288759.456	6267547.116	55.773
Cassar Crescent	11.574	288757.882	6267547.127	55.680
Cassar Crescent	13.671	288755.785	6267547.143	55.580
Cassar Crescent	13.782	288755.674	6267547.143	55.575
Cassar Crescent	15.320	288754.139	6267547.226	55.511
Cassar Crescent	20.000	288749.609	6267548.339	55.315
Access Handle	0.000	288763.166	6267481.901	56.795
Access Handle	15.000	288750.867	6267473.315	55.871
Access Handle	18.000	288748.407	6267471.597	55.519
Access Handle	24.000	288743.487	6267468.163	54.907
Access Handle	25.000	288742.667	6267467.590	54.862

NOTE
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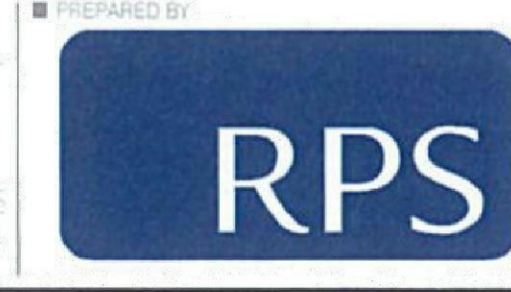
ISSUE FOR C.C.

NO.	DATE	REVISION DETAILS	BY
C	22.10.14	RETAINED ADDITIONAL TREES	S.W.
B	08.10.14	ADJ PIT 1/8, ADJ RD. 1 NEW KERB ALIGNMENT, ADD ROAD 1 SETOUT	S.W./K.G.
A	29.07.14	ISSUE FOR C.C.	K.G.

NOTES
 THIS IS A COLOURED PLAN. REPRODUCTION IN COLOUR ONLY.
 1. ORIGIN OF LEVELS 68M 07355 R.L. 50.53 DATUM AHD



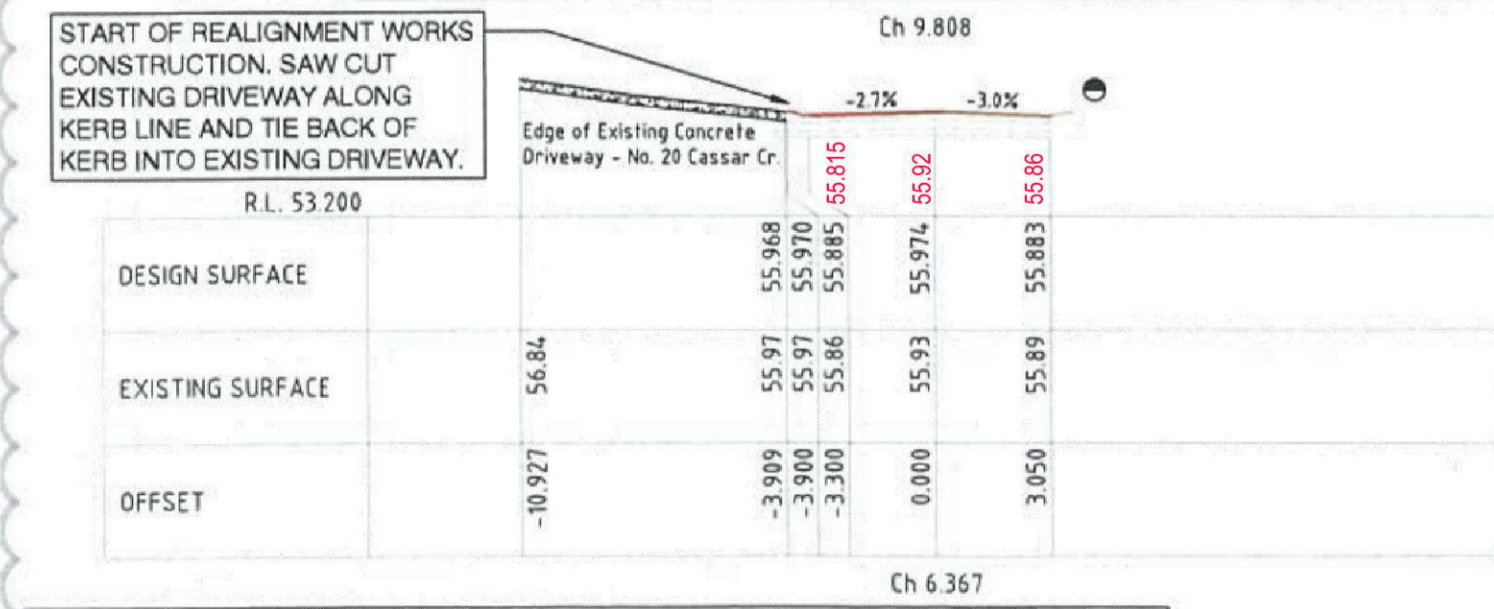
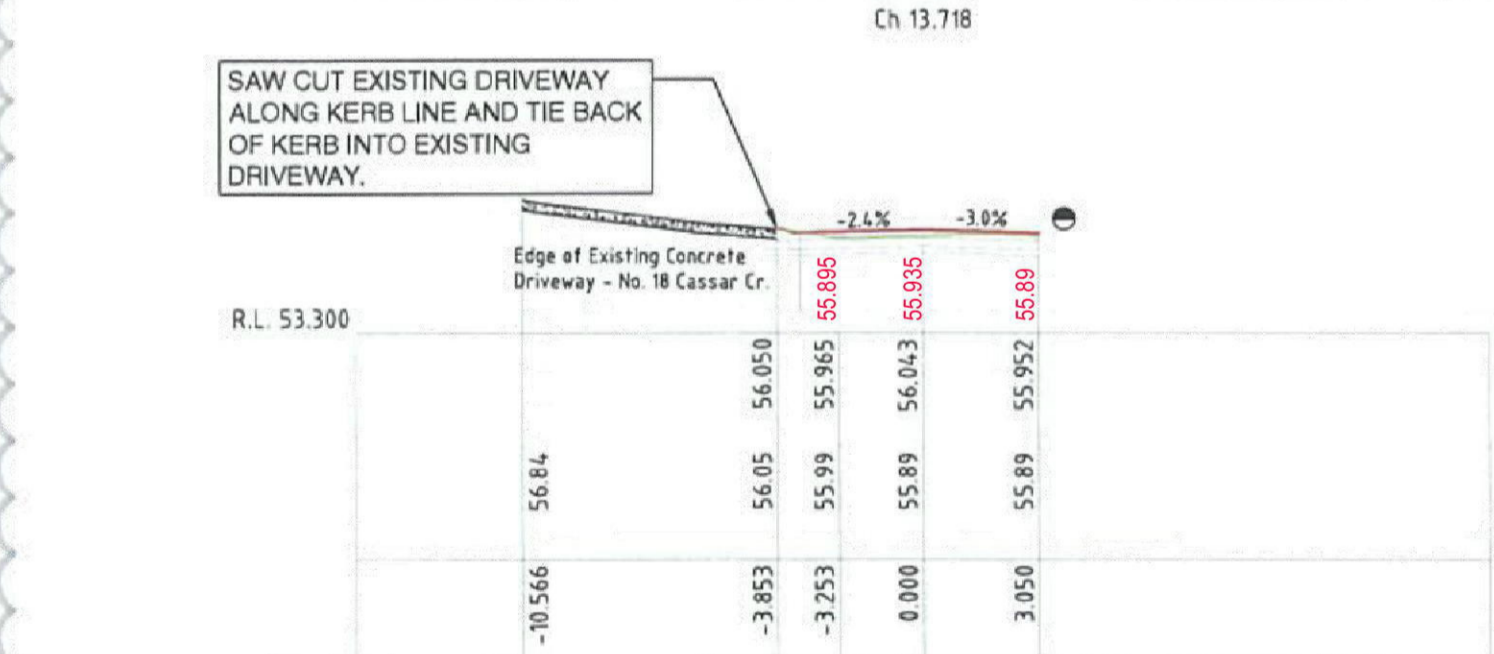
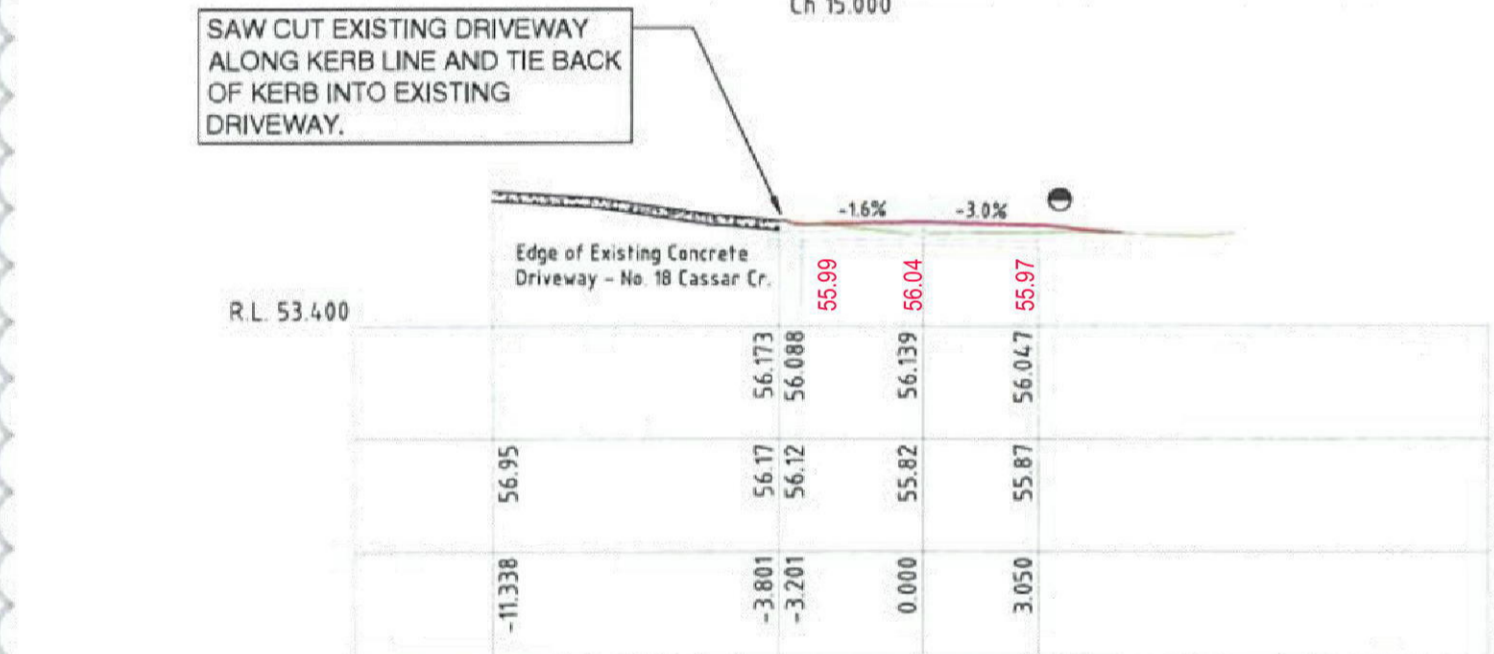
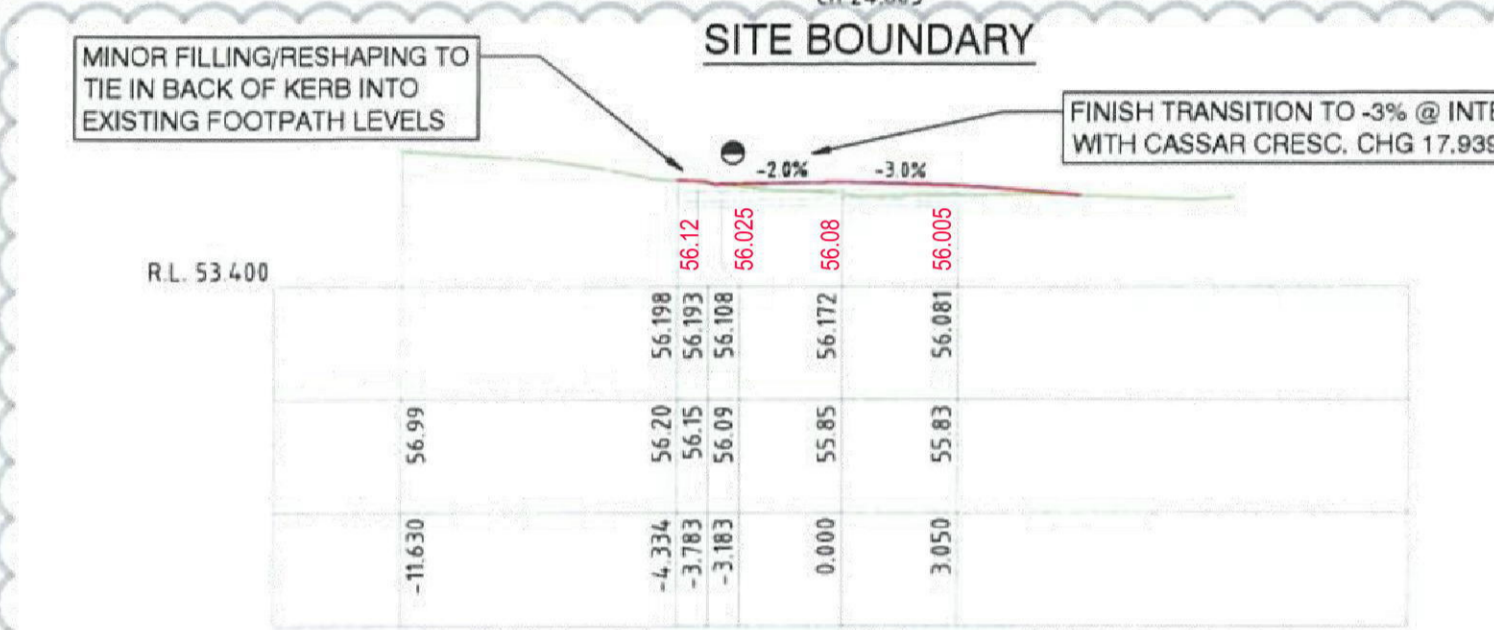
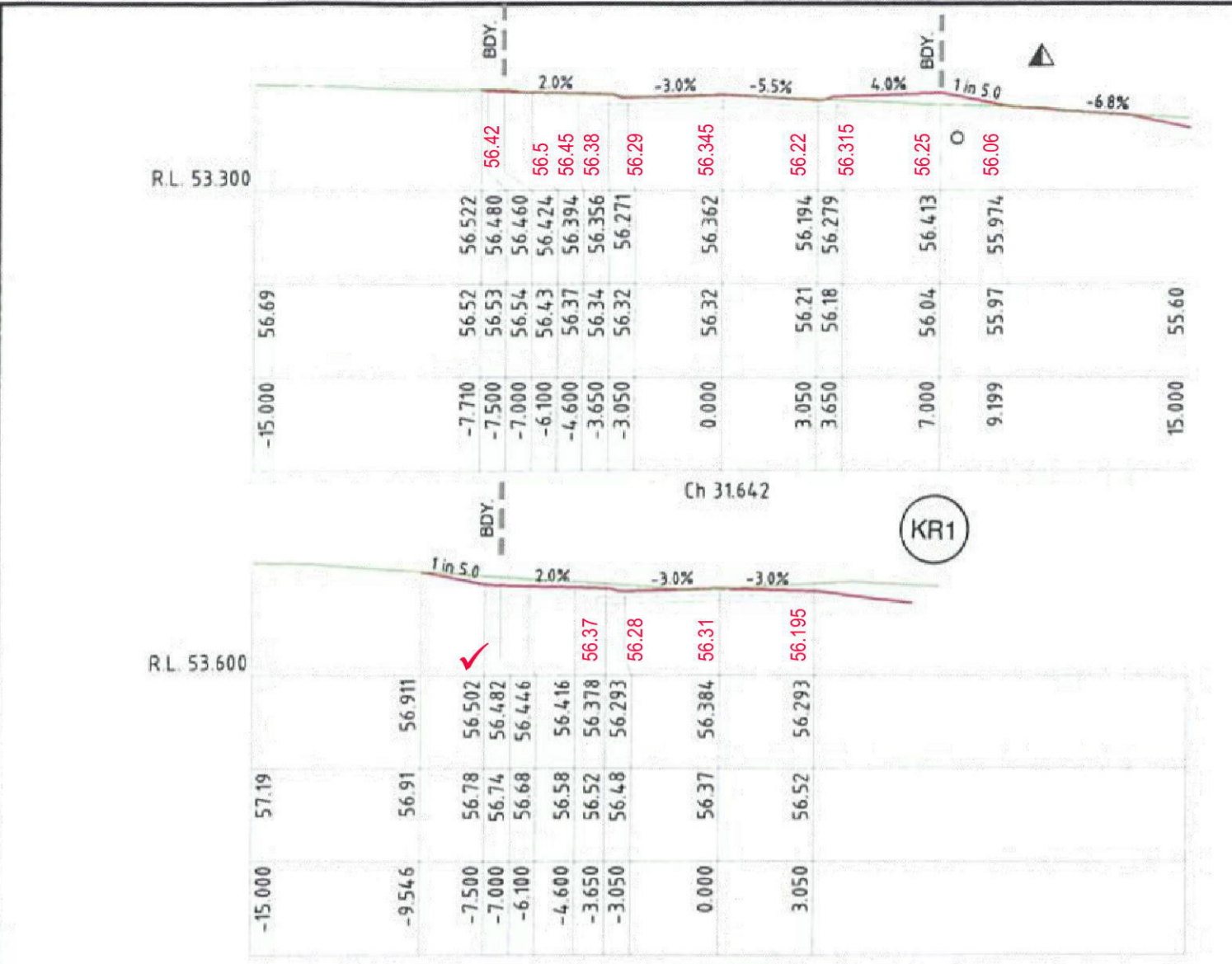
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1:500	PROG. SECTION
1:100	CROSS SECTION



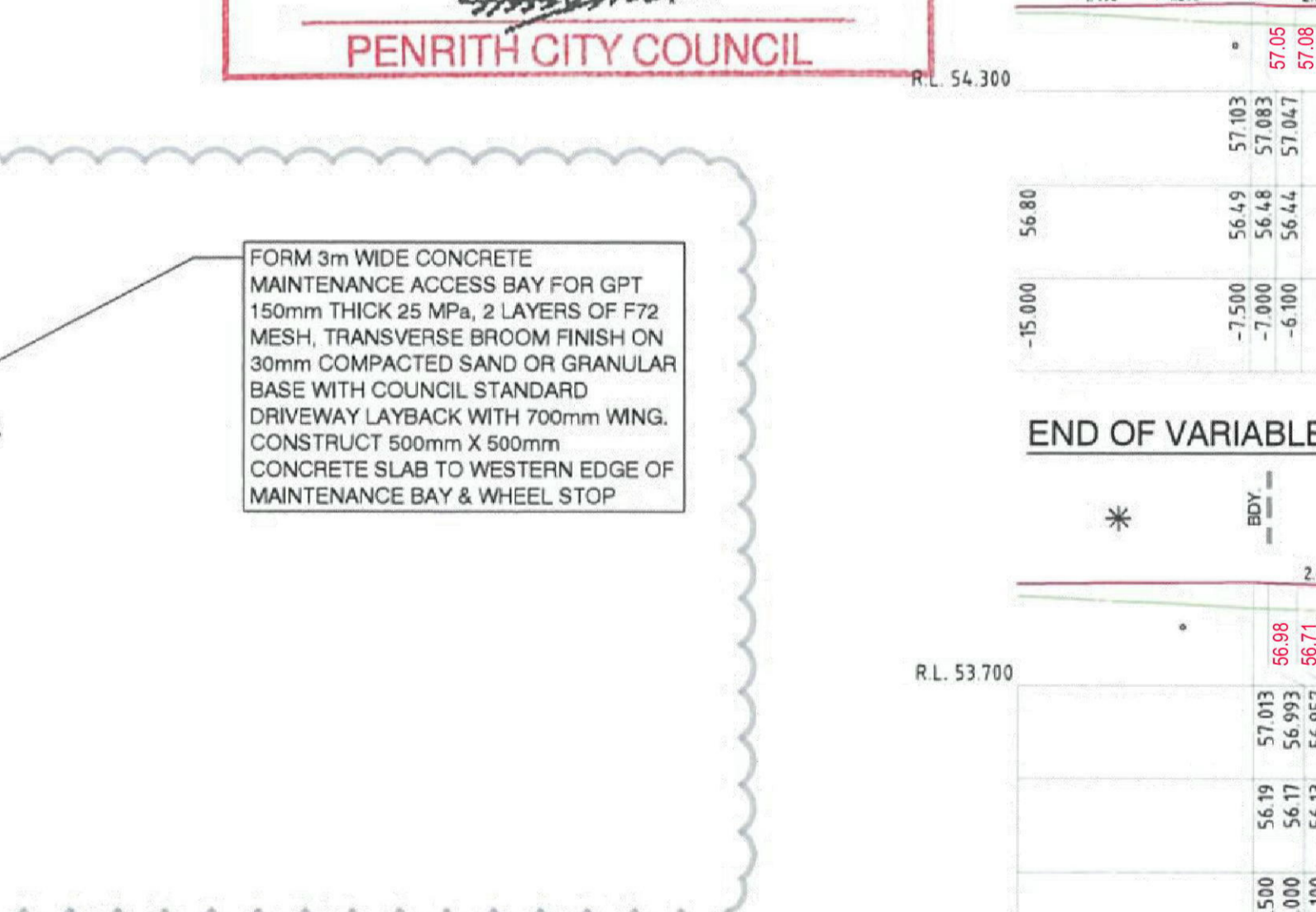
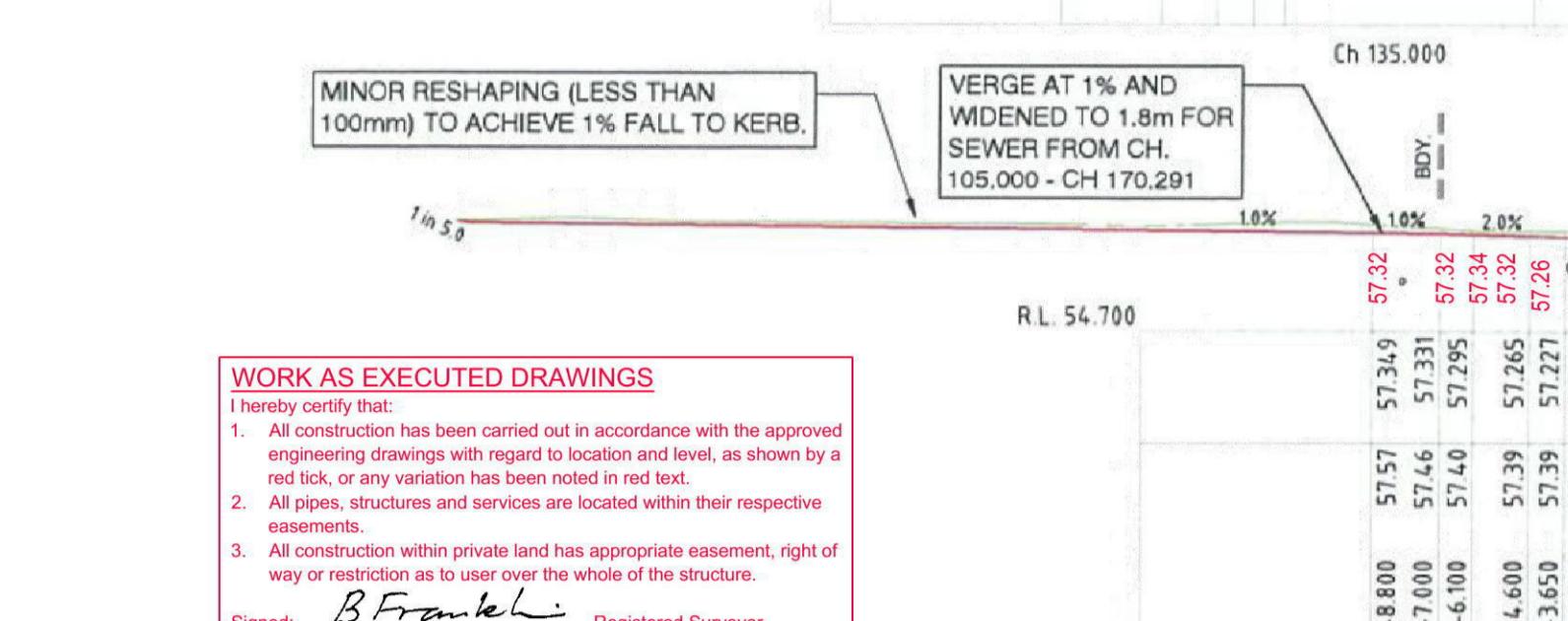
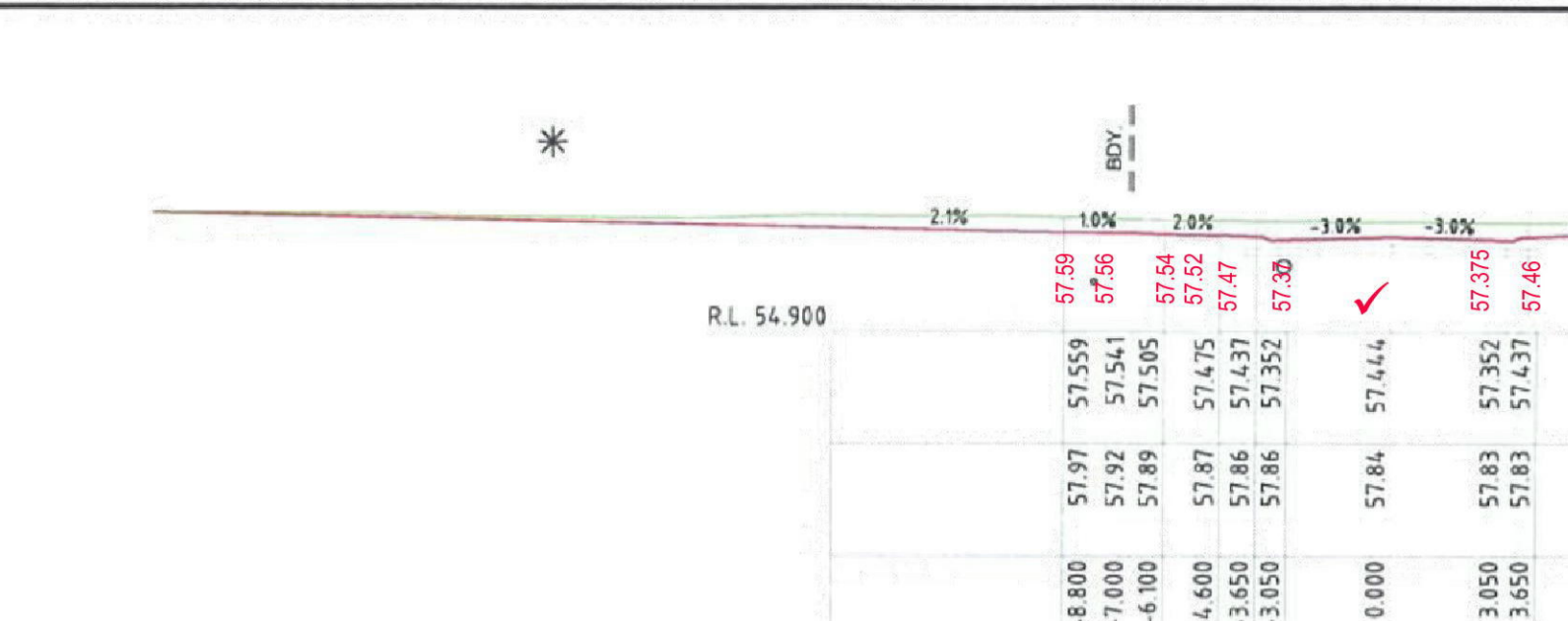
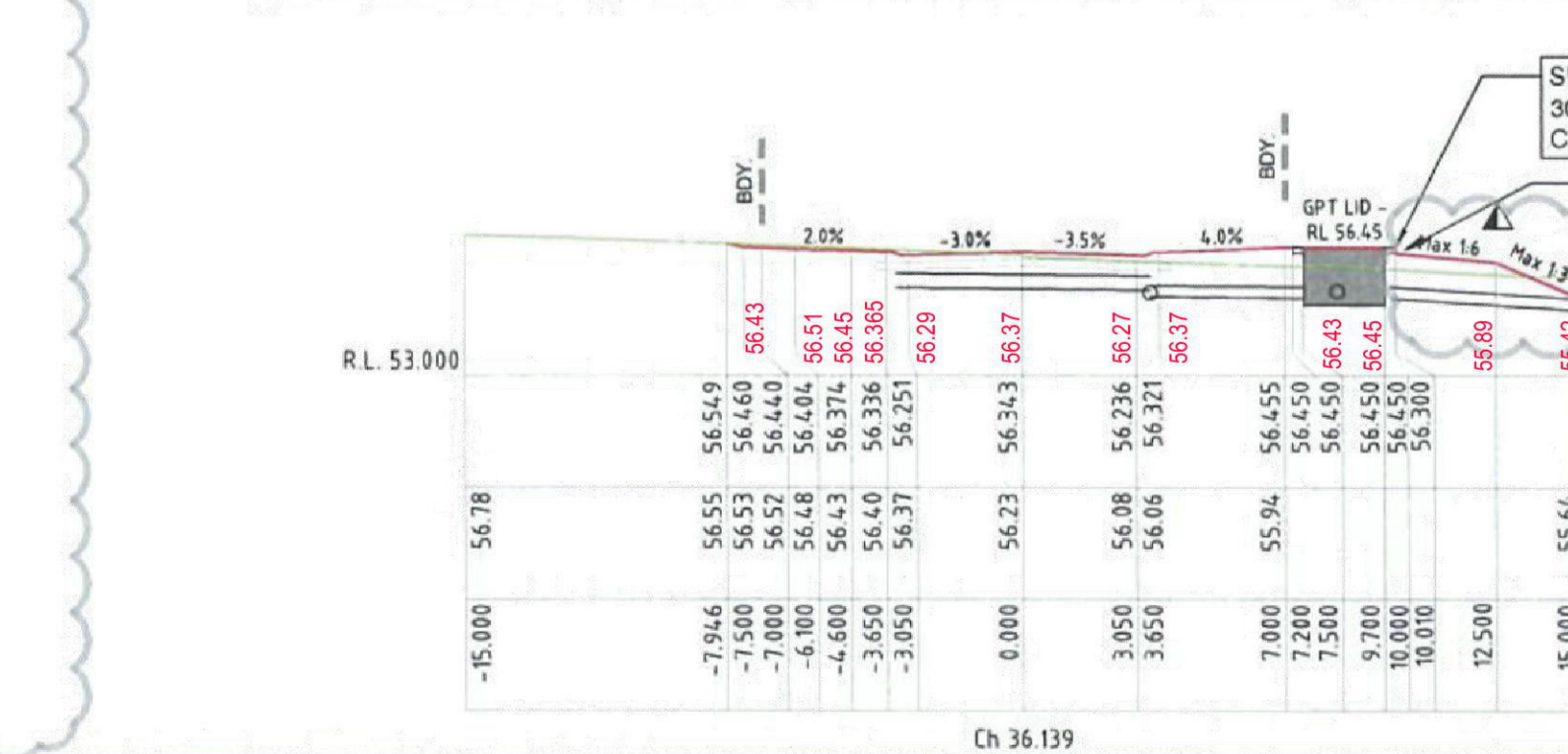
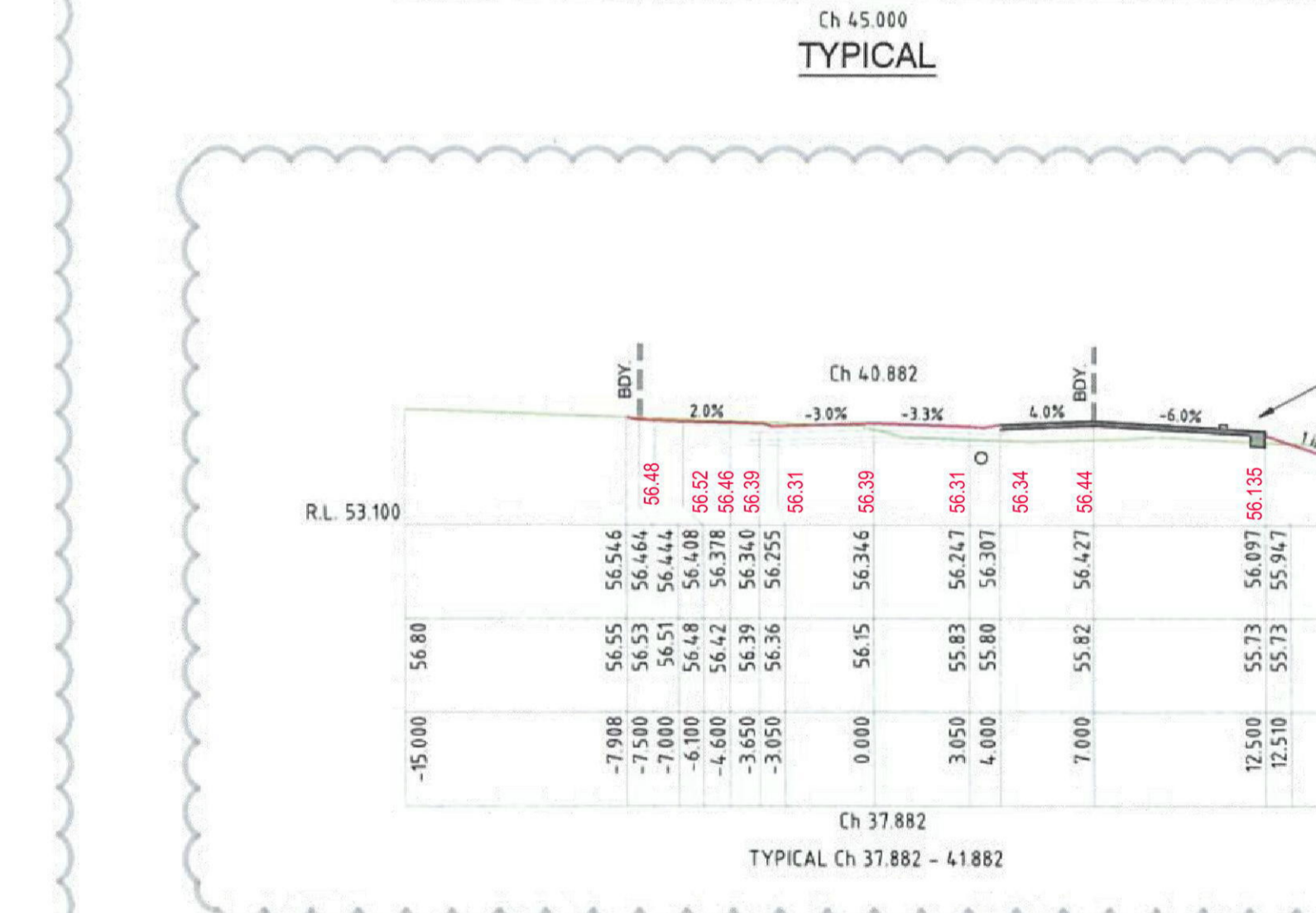
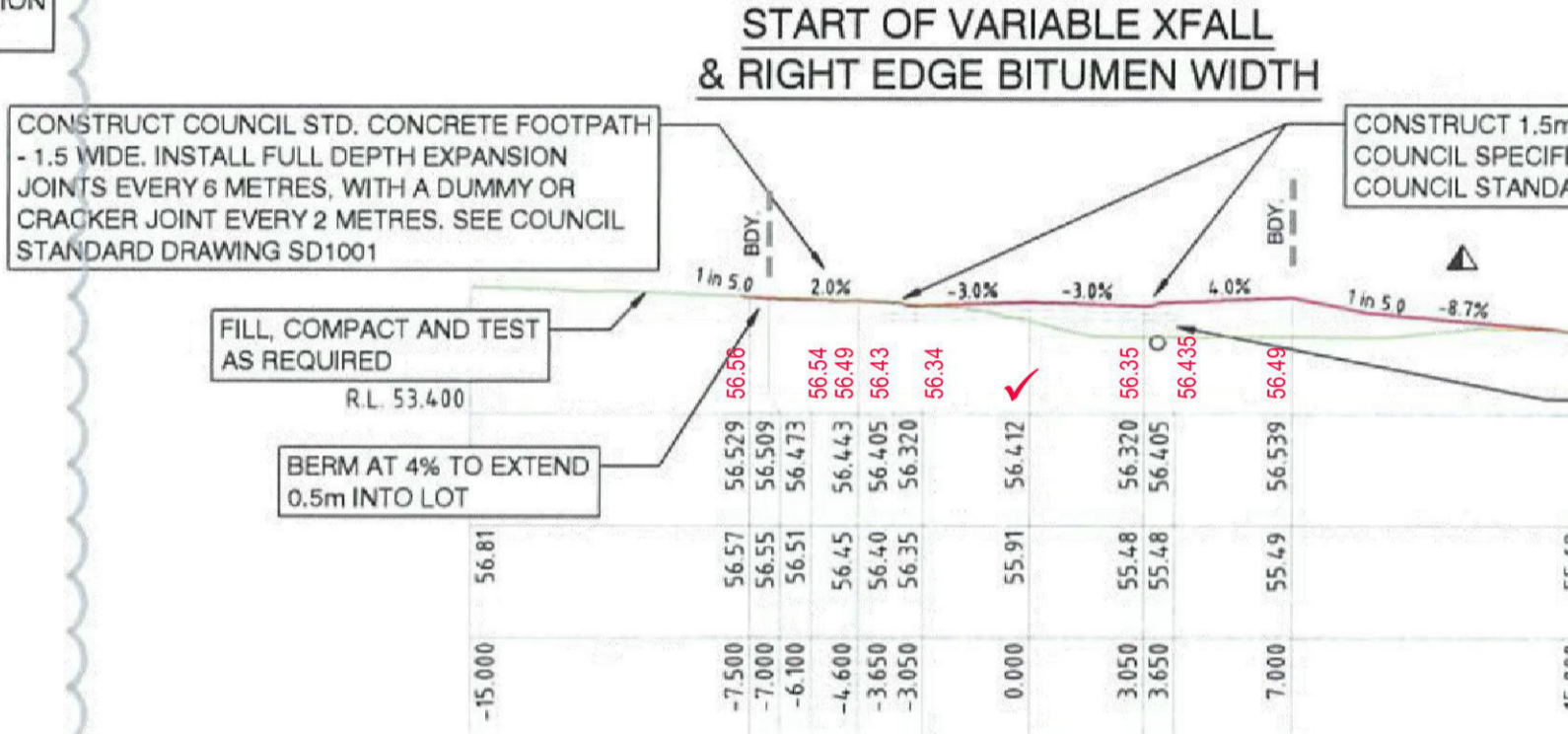
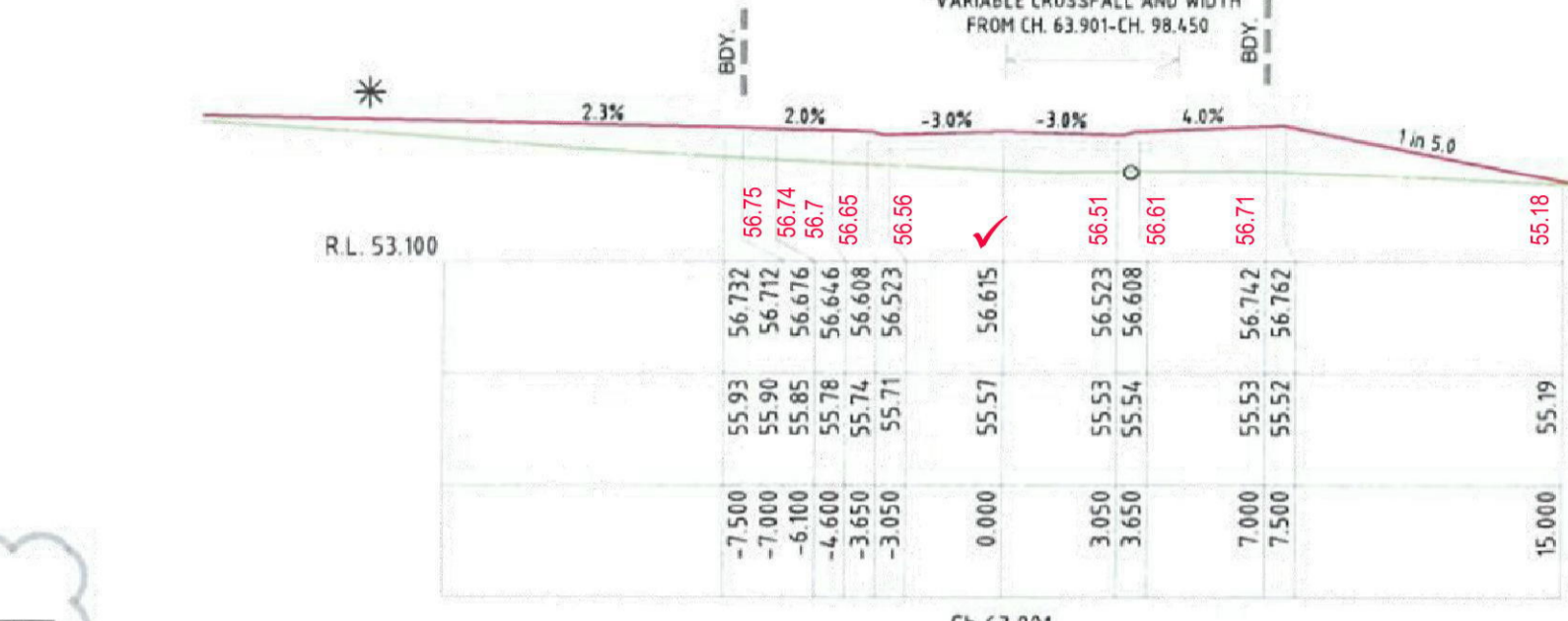
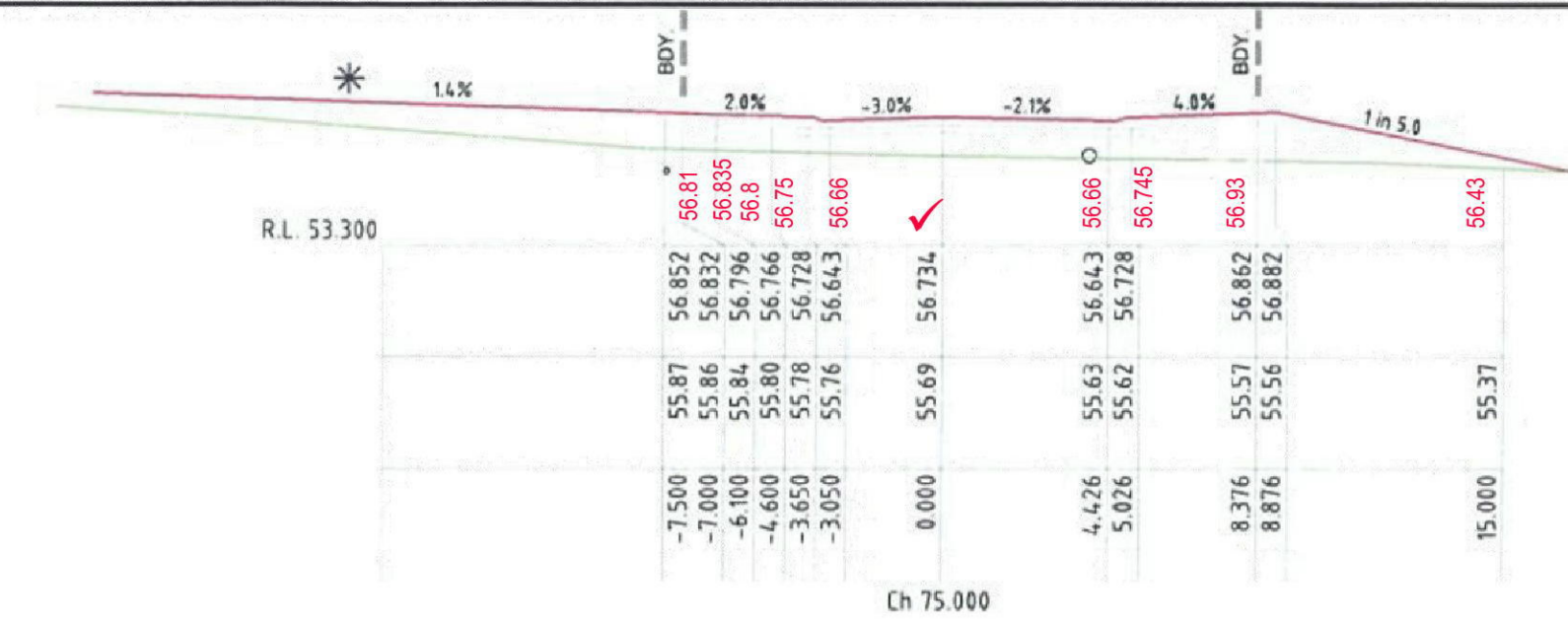
CLIENT	PROJECT	DATE OF PLAN
THE TRUSTEES OF THE ROMAN CATHOLIC CHURCH FOR THE DIOCESE OF PARRAMATTA	ROAD No. 1 & ACCESS HANDLE LONG. SECTIONS & SETOUT	20.07.14
DESIGNED: K.G./B.L.	DATE LAST SAVED: 22.10.14	DATE APPROVED: 20.07.14
APPROVED: B.L.		

ROAD No. 1 & ACCESS HANDLE LONG. SECTIONS & SETOUT
 CIVIL WORKS
 SUBDIVISION OF LOT 1 DP 1144668
 ANDROMEDA DRIVE, CRANE BROOK

JOB NO.	SCALE	SHEET
1117EG	E1-4	4 OF 15



NOTE
LEFT SIDE ROLL KERB WITHIN CASSAR CRESCENT TO BE REMOVED RECONSTRUCTED TO MATCH EXISTING PROFILE FROM DOWNSTREAM LINTEL TO CHG 2.379.



- CONSTRUCT FULL DEPTH PAVEMENT OR MILL EXISTING AC TO DESIGN LEVELS & TIE INTO EXISTING PAVEMENT AND KERB. SEE INTERSECTION DETAIL & SETOUT ON SHEET #7.
- SEE LOT REGRADING SETOUT ON SHEET #6
- SEE BIORETENTION SETOUT ON SHEET #6

WORK AS EXECUTED DRAWINGS
I hereby certify that:
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2. All pipes, structures and services are located within their respective easements.
3. All construction within private land has appropriate easement, right of way or restriction as to user over the whole of the structure.
Signed: *B. Franklin* Registered Surveyor
Date: 11-05-2015

This plan/document relates to
DA No: 130288-02 CCX No: 140030
Section 138 of the Roads Act
[Signature]
PENRITH CITY COUNCIL

This plan/document relates to
DA No: 130288-02 CCX No: 140030
Environmental Planning & Assessment Act
[Signature]
PENRITH CITY COUNCIL

NO.	DATE	REVISION DETAILS	BY
B	08.10.14	AMEND CHGS CASSAR NEW KERB ALIGN, ADD X SECT. FOR GPT BAY	S.W./K.G.
A	29.07.14	ISSUE FOR C.C.	K.G./K.G.

THIS IS A COLOURED PLAN. REPRODUCTION IN COLOUR ONLY.

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SCALE: 1:200
DATUM: AHD
LONG SECTION: N/A
CROSS SECTION: N/A

PREPARED BY: **RPS**
rpsgroup.com

THE TRUSTEES OF THE ROMAN CATHOLIC CHURCH FOR THE DIOCESE OF PARRAMATTA

DESIGNED	CL.B.F.	DATE OF SURVEY	18.01.13
DRAWN	K.G.	DATE OF PLAN	29.07.14
DESIGNED	K.G./B.L.	DATE LAST SAVED	22.10.14
APPROVED	BL	DATE APPROVED	29.07.14

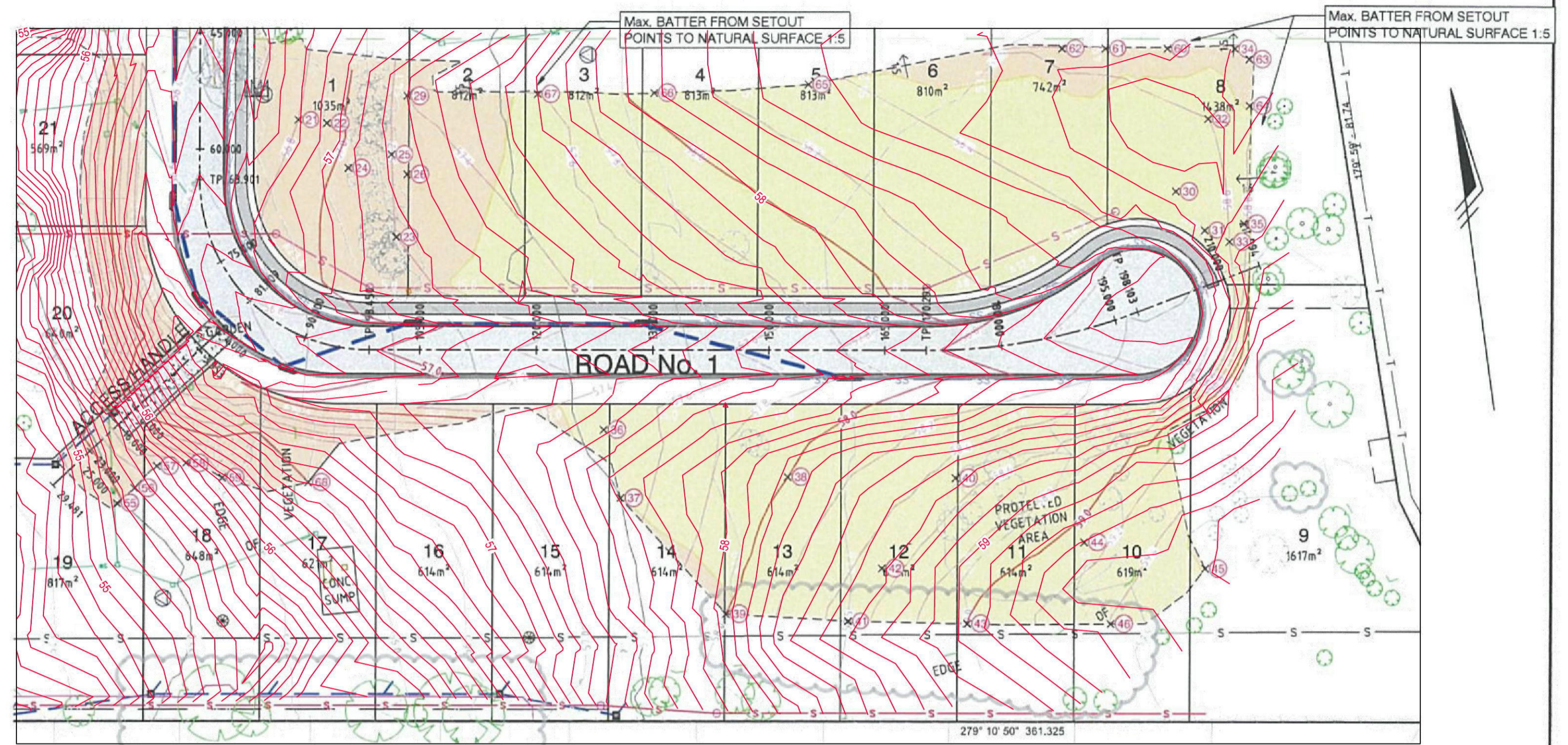
ROAD No.1 CROSS SECTIONS (1)
CIVIL WORKS
SUBDIVISION OF LOT 1 DP 1144668
ANDROMEDA DRIVE, CRANE BROOK

ISSUE FOR C.C.
JOB No: I117EG
DRAW No: E1-5
SHEET 5 OF 15 SHEETS
CODE: B
A1

Point #	Easting	Northing	Desc.	Level
2	288734.016	6267533.076	BASIN TOE	54.500
3	288735.371	6267538.191	BASIN TOE	54.500
4	288750.204	6267533.641	BASIN TOE	54.500
5	288749.079	6267526.045	BASIN TOE	54.500
6	288734.858	6267527.027	BASIN TOE	54.500
7	288741.968	6267526.536	BASIN TOE	54.500
8	288742.758	6267535.958	BASIN TOE	54.500
9	288732.233	6267532.828	BASIN TOP	54.950
10	288732.271	6267533.518	BASIN TOP	54.950
11	288733.475	6267538.274	BASIN TOP WEIR	54.950
12	288736.249	6267541.324	BASIN TOP WEIR	54.950
13	288750.739	6267535.359	BASIN TOP	54.950
14	288751.964	6267533.377	BASIN TOP	54.950
15	288750.859	6267525.781	BASIN TOP	54.950
16	288748.955	6267524.249	BASIN TOP	54.950
17	288734.734	6267525.231	BASIN TOP	54.950
18	288733.075	6267526.778	BASIN TOP	54.950
19	288743.304	6267537.677	BASIN TOP	54.950
20	288741.844	6267524.740	BASIN TOP	54.950
21	288776.819	6267507.353	LOT REGRADE	56.800
22	288780.386	6267506.408	LOT REGRADE	56.900
23	288787.235	6267490.612	LOT REGRADE	57.200
24	288782.318	6267500.283	LOT REGRADE	57.000
25	288788.056	6267501.251	LOT REGRADE	57.200
26	288789.711	6267498.426	LOT REGRADE	57.300

Point #	Easting	Northing	Desc.	Level
29	288791.083	6267508.451	LOT REGRADE	57.400
30	288887.558	6267482.419	LOT REGRADE	58.500
31	288890.585	6267476.952	LOT REGRADE	58.500
32	288892.970	6267491.098	LOT REGRADE	58.600
33	288893.574	6267475.011	LOT REGRADE	58.600
34	288897.618	6267499.572	LOT REGRADE - Min 1%	58.700
35	288895.793	6267477.025	LOT REGRADE - Min 1%	58.700
36	288810.301	6267462.170	LOT REGRADE	57.500
37	288811.243	6267453.142	LOT REGRADE	57.500
38	288833.048	6267452.818	LOT REGRADE	58.000
39	288822.724	6267436.411	LOT REGRADE	58.000
40	288854.432	6267449.681	LOT REGRADE	58.500
41	288838.271	6267433.288	LOT REGRADE	58.500
42	288843.504	6267439.431	LOT REGRADE	58.501
43	288853.371	6267430.821	LOT REGRADE	59.000
44	288869.667	6267439.161	LOT REGRADE	59.100
45	288884.724	6267433.572	LOT REGRADE	59.600
46	288871.644	6267428.231	LOT REGRADE	59.400
47	288734.320	6267539.765	BASIN WEIR OVERFLOW	54.650
48	288732.551	6267542.628	BASIN WEIR OVERFLOW	54.615
49	288730.750	6267545.542	BASIN WEIR OVERFLOW	54.582
50	288766.710	6267549.623	ROAD LEVELS	56.100
51	288767.217	6267553.586	ROAD LEVELS	56.000
52	288767.755	6267557.800	ROAD LEVELS	55.900
53	288733.536	6267538.517	BASIN BOTTOM WEIR	54.650

Point #	Easting	Northing	Desc.	Level
54	288735.243	6267540.074	BASIN BOTTOM WEIR	54.650
55	288746.858	6267461.587	HANDLE BATTER	54.969
56	288749.395	6267463.194	HANDLE BATTER	55.099
57	288752.580	6267465.619	HANDLE BATTER	55.267
58	288756.355	6267465.454	HANDLE BATTER	55.430
59	288760.740	6267462.936	HANDLE BATTER	55.600
60	288888.982	6267500.847	LOT REGRADE - Min 1%	58.655
61	288881.013	6267501.977	LOT REGRADE - Min 1%	58.636
62	288875.486	6267502.762	LOT REGRADE - Min 1%	58.634
63	288899.350	6267497.972	LOT REGRADE - Min 1%	58.747
64	288898.572	6267492.023	LOT REGRADE - Min 1%	58.777
65	288842.609	6267502.668	LOT REGRADE - Min 1%	58.359
66	288822.652	6267504.381	LOT REGRADE - Min 1%	58.074
67	288807.780	6267506.347	LOT REGRADE - Min 1%	57.592
68	288771.736	6267460.785	HANDLE BATTER	56.000
69	288736.453	6267544.742	BASIN MAINTENANCE	54.868
70	288739.865	6267548.192	BASIN MAINTENANCE	54.879
71	288734.285	6267550.015	BASIN MAINTENANCE	54.580
72	288740.209	6267538.072	BASIN MAINTENANCE	54.524
73	288736.674	6267542.743	BASIN MAINTENANCE	54.950
74	288739.656	6267543.073	BASIN MAINTENANCE	55.092
75	288739.098	6267548.112	BASIN MAINTENANCE	54.856
77	288739.434	6267545.072	BASIN MAINTENANCE	54.998
78	288737.228	6267537.742	BASIN MAINTENANCE	54.500



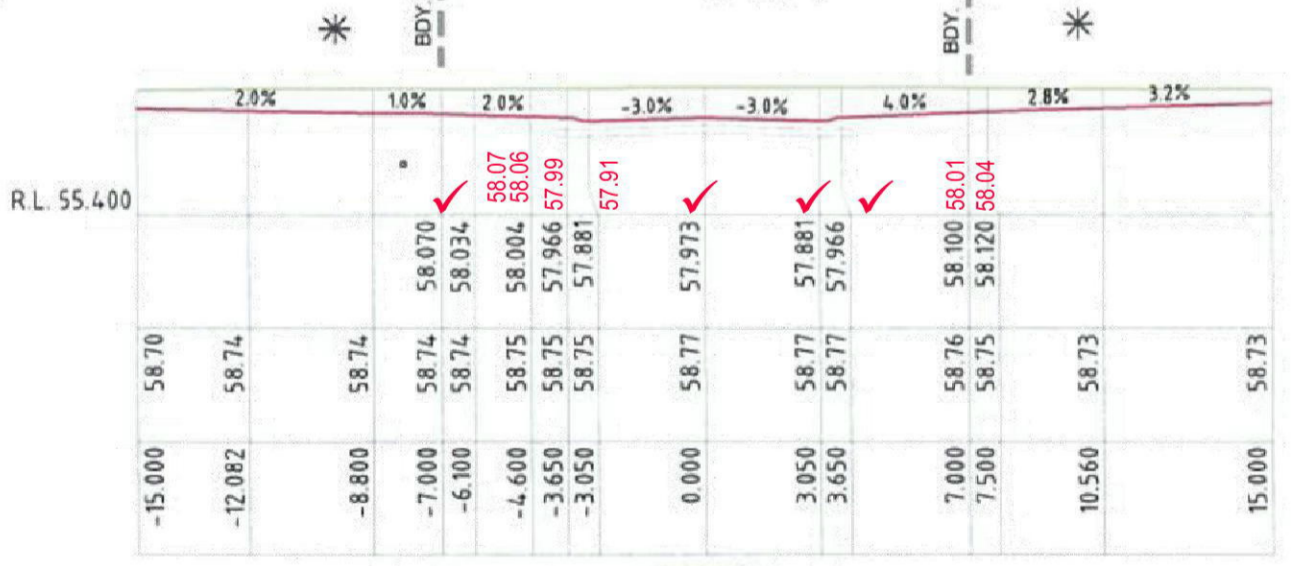
* COUNCIL STANDARD INDUSTRIAL LAYBACK TO TIE INTO EXISTING KERB LEVELS. CONTRACTOR TO CONFIRM LEVELS ON SITE.

LEGEND

- LOT REGRADING/FILLING (Min. 1% TO KERB)
- LOT REGRADING/CUT (Min. 1% TO KERB)



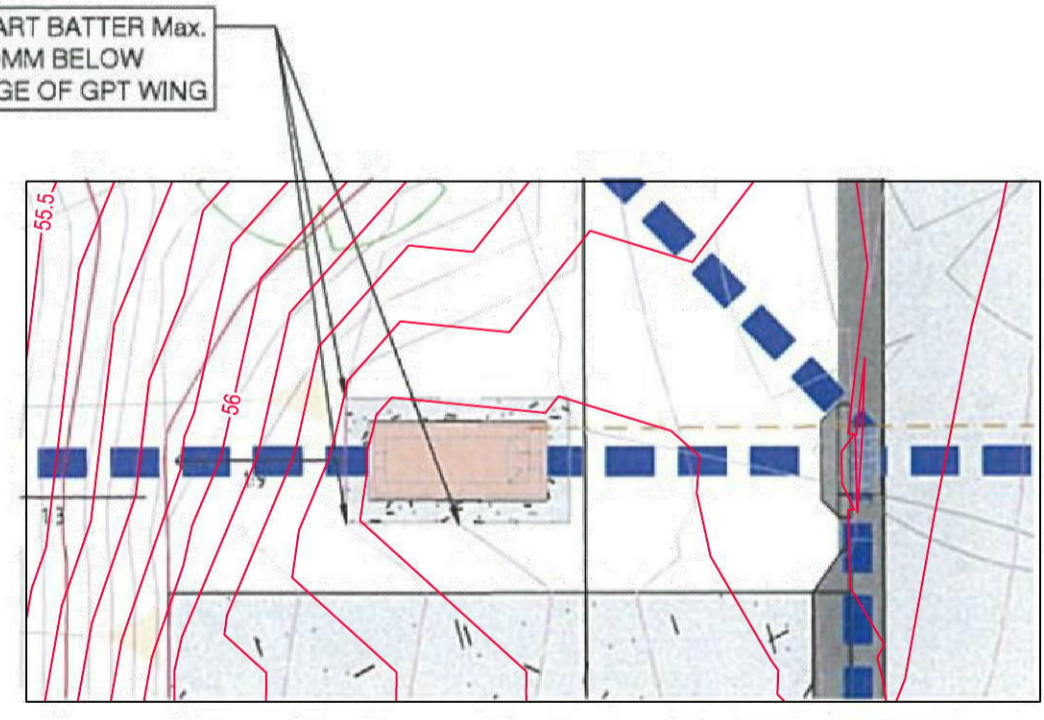
CUL-DE-SAC HEAD - REFER KR2 FOR KERB SETOUT FOR CHAINAGES 170.291-END ROAD 1



Ch 150.000	Ch 150.000	Ch 150.000	Ch 150.000	Ch 150.000	Ch 150.000	Ch 150.000	Ch 150.000	Ch 150.000	Ch 150.000	Ch 150.000
DESIGN SURFACE	57.784	57.81	57.784	57.78	57.784	57.78	57.784	57.78	57.784	57.78
EXISTING SURFACE	58.32	57.96	57.96	57.96	57.96	57.96	57.96	57.96	57.96	57.96
OFFSET	-8.000	-7.000	-6.000	-4.600	-3.650	-3.050	0.000	3.050	7.000	10.560

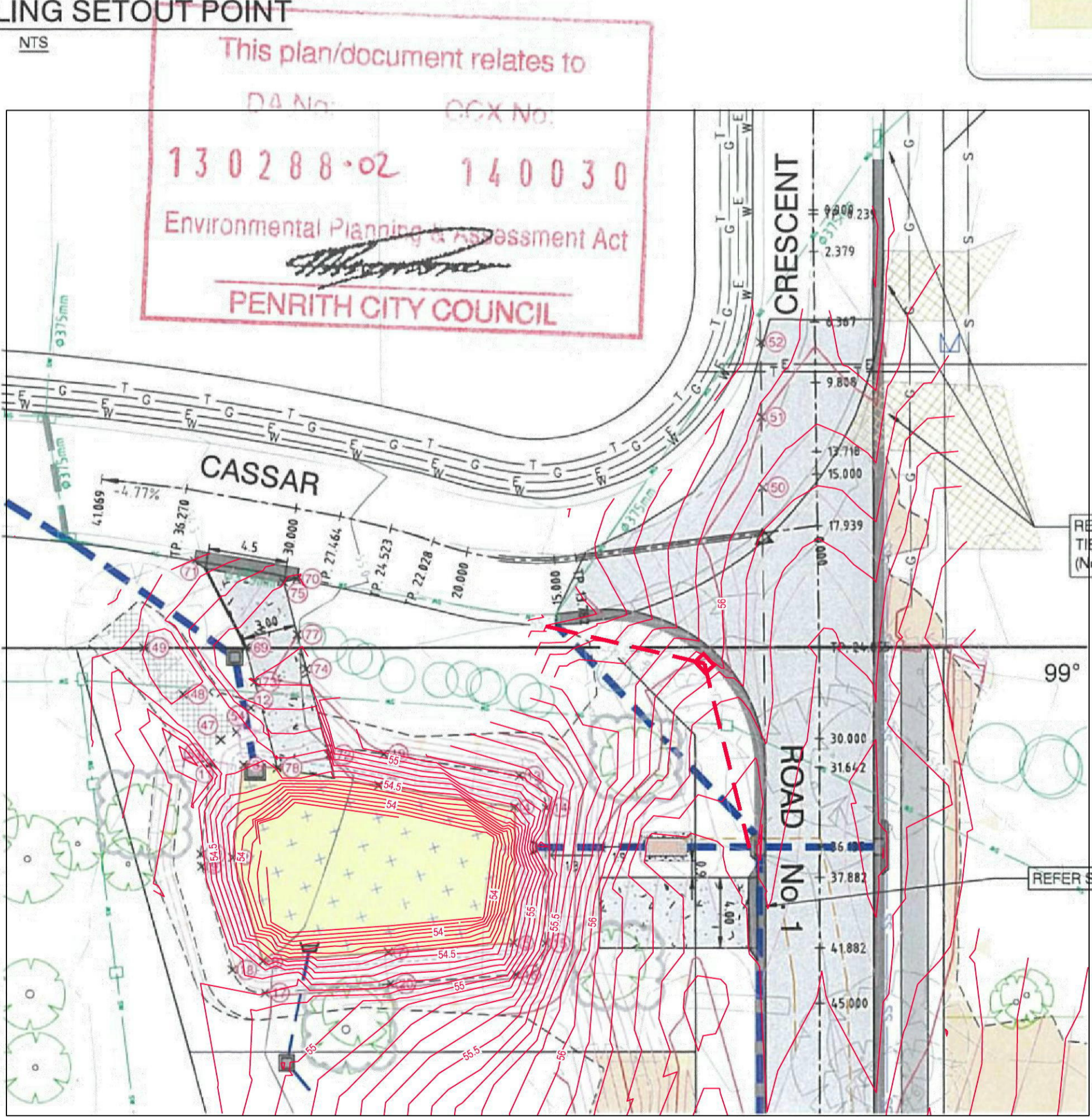
ROAD No. 1 CROSS SECTIONS (2) & SETOUT

This plan/document relates to
DA No: 130288-02 CCX No: 140030
Section 138 of the Roads Act
PENRITH CITY COUNCIL



BATTER FROM GPT DETAIL FOR SETOUT

WORK AS EXECUTED DRAWINGS
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3. All construction within private land has appropriate easement, right of way or restriction as to user over the whole of the structure.
Signed: B. Frankel Registered Surveyor RPS
Date: 11-05-2015



BIORETENTION AND INTERSECTION SETOUT

REFER SHEET 7 FOR SETOUT OF KERB ALIGNMENT. THE BACK OF KERB LEVELS TO EXISTING DRIVE LEVELS (No.18 & No.20 CASSAR CRESCENT)

REFER SHEET 5 FOR SETOUT OF GPT MAINTENANCE BAY

NO.	DATE	REVISION DETAILS	BY
C	22.10.14	AMD'D LINE 5, REDUCED LOT REGRADING(10-13), RETND TREES	S.W.
B	08.10.14	REISSUE FOR COUNCIL AMENDMENTS	S.W./K.G.
A	29.07.14	ISSUE FOR C.C.	K.G.

THIS IS A COLOURED PLAN. REPRODUCTION IN COLOUR ONLY.



SCALE	1:500	DATUM	AHD
VERTICAL CURVE	N/A	CROSS-SECTION	1:200
LONG-SECTION	N/A	VERTICAL	1:200

PREPARED BY
RPS
rpsgroup.com

CLIENT	THE TRUSTEES OF THE ROMAN CATHOLIC CHURCH FOR THE DIOCESE OF PARRAMATTA
SURVEY	C.L.B.F.
DRAWN	K.G.
DESIGNED	K.G./B.L.
APPROVED	B.L.

ROAD No.1 CROSS SECTIONS (2) & SETOUT
CIVIL WORKS
SUBDIVISION OF LOT 1 DP 1144668
ANDROMEDA DRIVE, CRANE BROOK

JOB No	1117EG
DATE	20.07.14
DATE LAST REVISED	22.10.14
DATE APPROVED	29.07.14

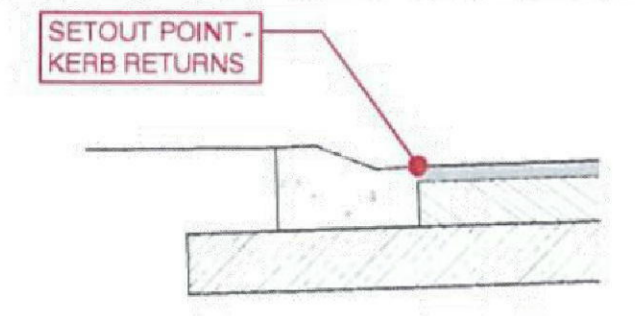
NOTE

THE CONTRACTOR MUST OBTAIN A CURRENT D.B.Y.D. SEARCH BEFORE COMMENCING WORK AND SHALL POHOLE TO CONFIRM THE LOCATION & LEVEL OF ALL SERVICES PRIOR TO COMMENCING ANY PHYSICAL WORK ON THE SITE. ANY POTENTIAL CONFLICT SHALL BE ADVISED TO THE DESIGNER FOR RESOLUTION.

STRING	CHAINAGE	EASTING	NORTHING	LEVEL
Cassar Crescent	0.000	288769.456	626754.7042	56.249
Cassar Crescent	3.429	288766.027	626754.7067	56.155
Cassar Crescent	10.000	288759.456	626754.7116	55.773
Cassar Crescent	11.574	288757.882	626754.7127	55.680
Cassar Crescent	13.671	288755.785	626754.7143	55.580
Cassar Crescent	13.782	288755.674	626754.7143	55.575
Cassar Crescent	15.320	288754.139	626754.7226	55.511
Cassar Crescent	20.000	288749.609	626754.8339	55.315

KERB	CHAINAGE	EASTING	NORTHING	LEVEL
KR1	0.000	288764.609	6267533.889	56.194
KR1	3.825	288764.332	6267537.675	56.101
KR1	11.476	288759.471	6267543.282	55.663
KR1	15.301	288755.762	6267544.093	55.465
KR2	0.000	288853.361	6267469.589	57.881
KR2	5.980	288859.325	6267469.274	57.965
KR2	11.960	288865.252	6267470.008	58.034
KR2	17.940	288870.958	6267471.770	58.097
KR2	23.919	288876.267	6267474.594	58.160

KR2	26.664	288878.791	6267475.551	58.189
KR2	29.826	288881.931	6267475.634	58.223
KR2	32.987	288884.863	6267474.508	58.256
KR2	36.148	288887.142	6267472.346	58.281
KR2	39.309	288888.420	6267469.478	58.290
KR2	42.471	288886.502	6267466.337	58.283
KR2	45.632	288887.377	6267463.405	58.259
KR2	48.793	288885.215	6267461.126	58.227
KR2	51.954	288882.346	6267459.848	58.195
KR2	54.881	288879.438	6267459.729	58.166
KR2	82.084	288852.504	6267463.550	57.881

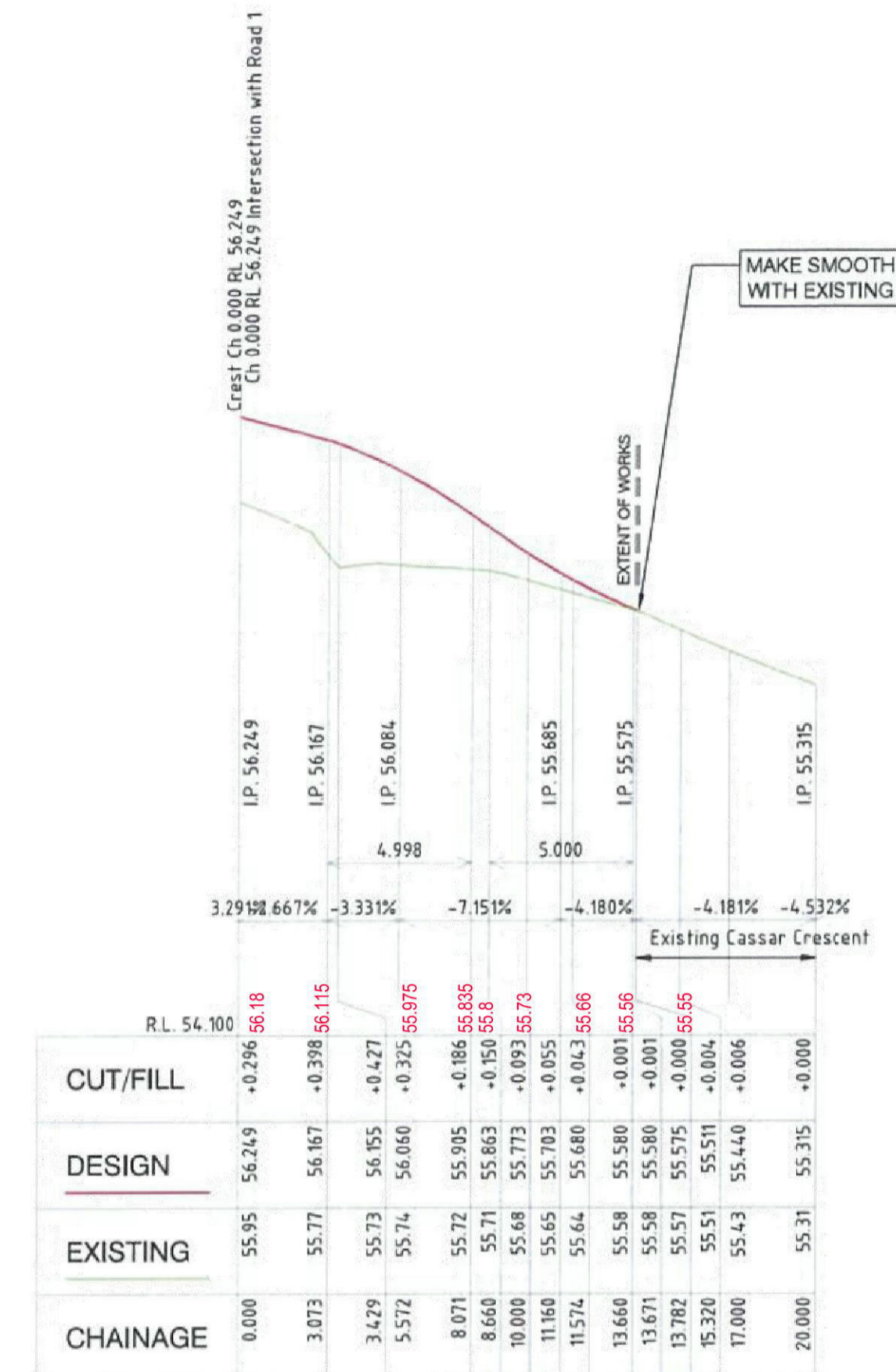


SETOUT POINT FOR KERB RETURNS - LIP LINE
NTS

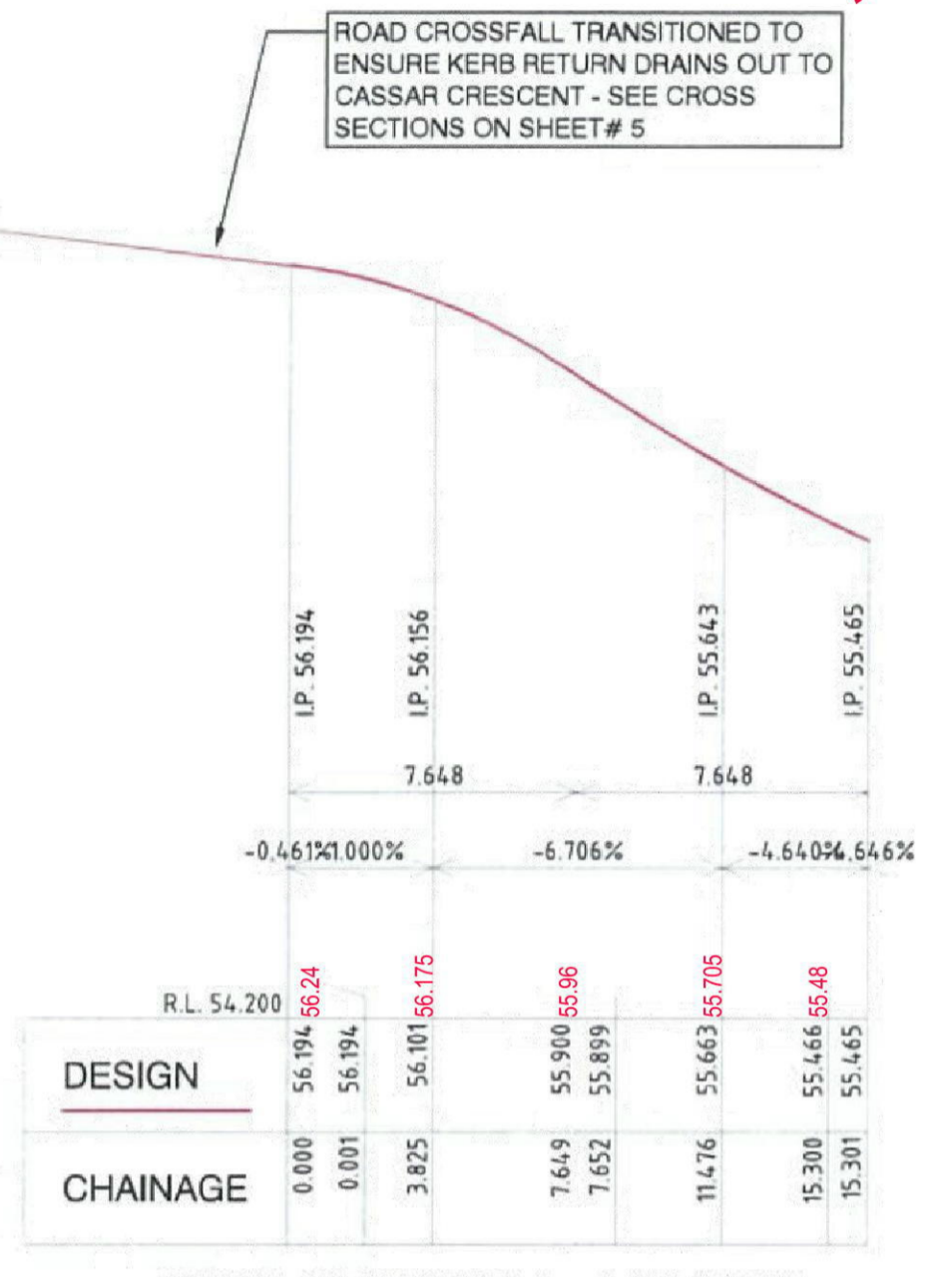
This plan/document relates to
DA No: **130288-02** CCX No: **140030**
Section 138 of the Roads Act
PENRITH CITY COUNCIL

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Signed: **B. Frankel**
Registered Surveyor
Date: 11-05-2015

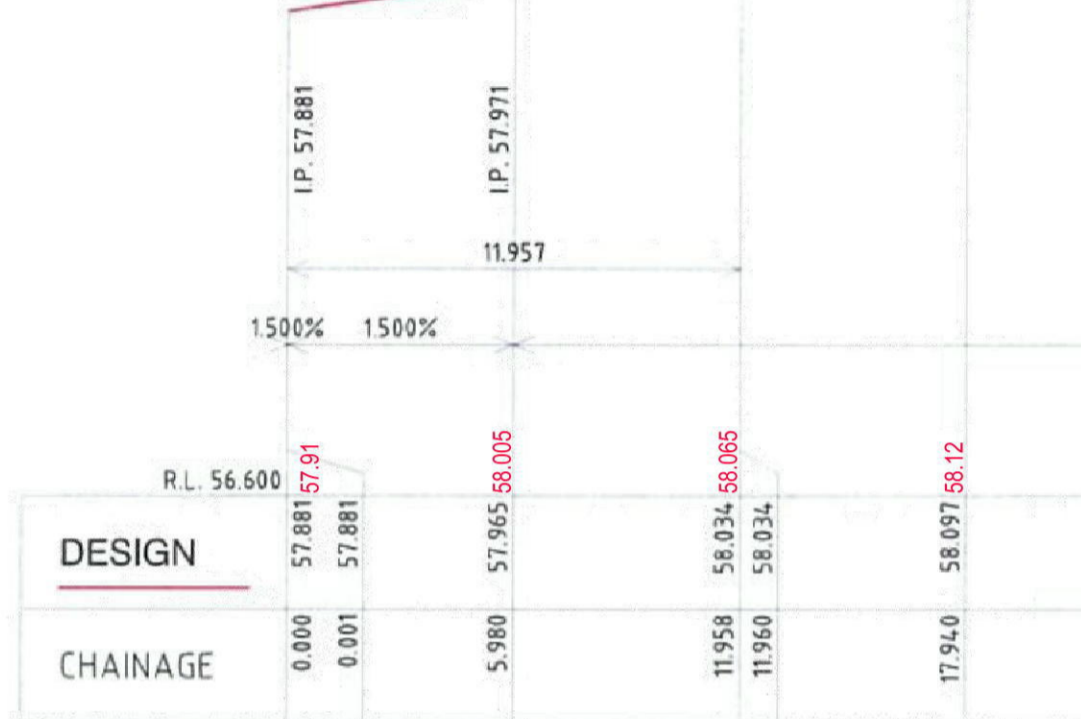
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DA No: **130288-02** CCX No: **140030**
Environmental Planning & Assessment Act
PENRITH CITY COUNCIL



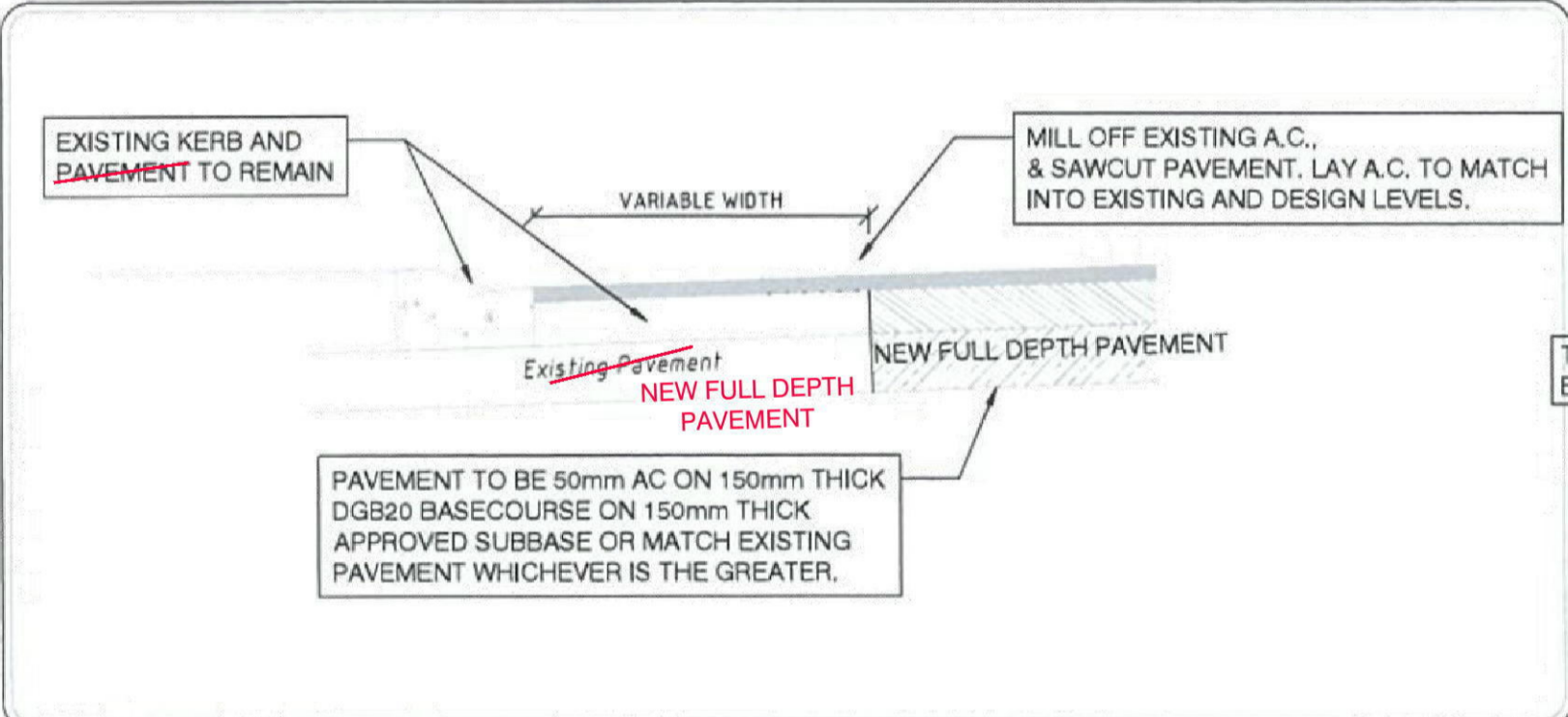
CASSAR CRESCENT (EAST-WEST) CENTRELINE
H 1:200 V 1:20



KERB RETURN 1 - LIP LINE
H 1:200 V 1:20



KERB RETURN 2 - CULDESAC LIP LINE
H 1:200 V 1:20



DETAIL 'A'
TYPICAL DETAIL NEW PAVEMENT TYING IN WITH EXISTING IN NEW INTERSECTION
NTS

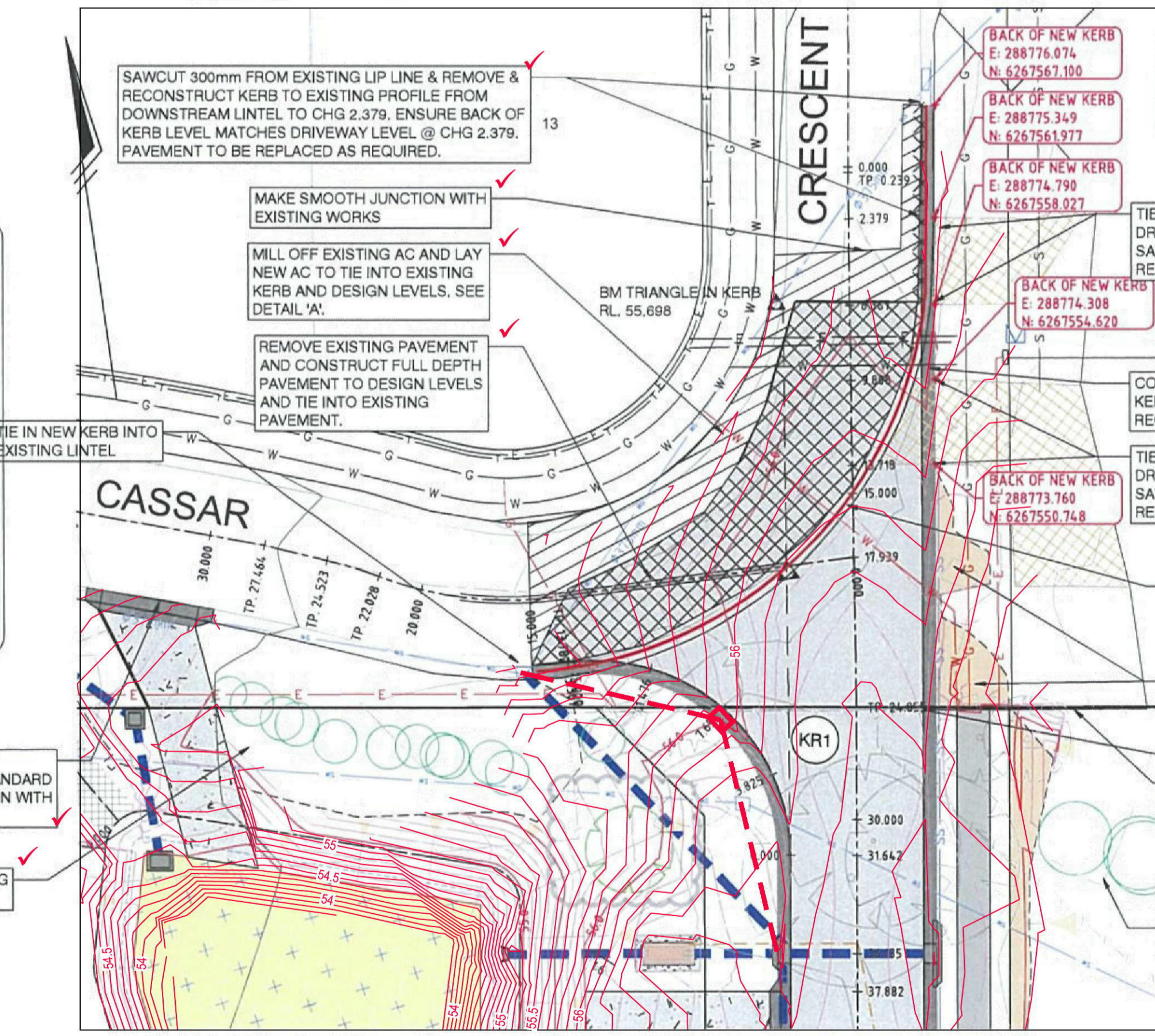
LEGEND

- PAVEMENT TO BE REMOVED AND CONSTRUCTED TO DESIGN LEVELS
- REMOVE AND DISPOSE OF KERB AND GUTTER
- AC TO BE MILLED AND CONSTRUCTED TO DESIGN LEVELS
- CONSTRUCT PAVEMENT

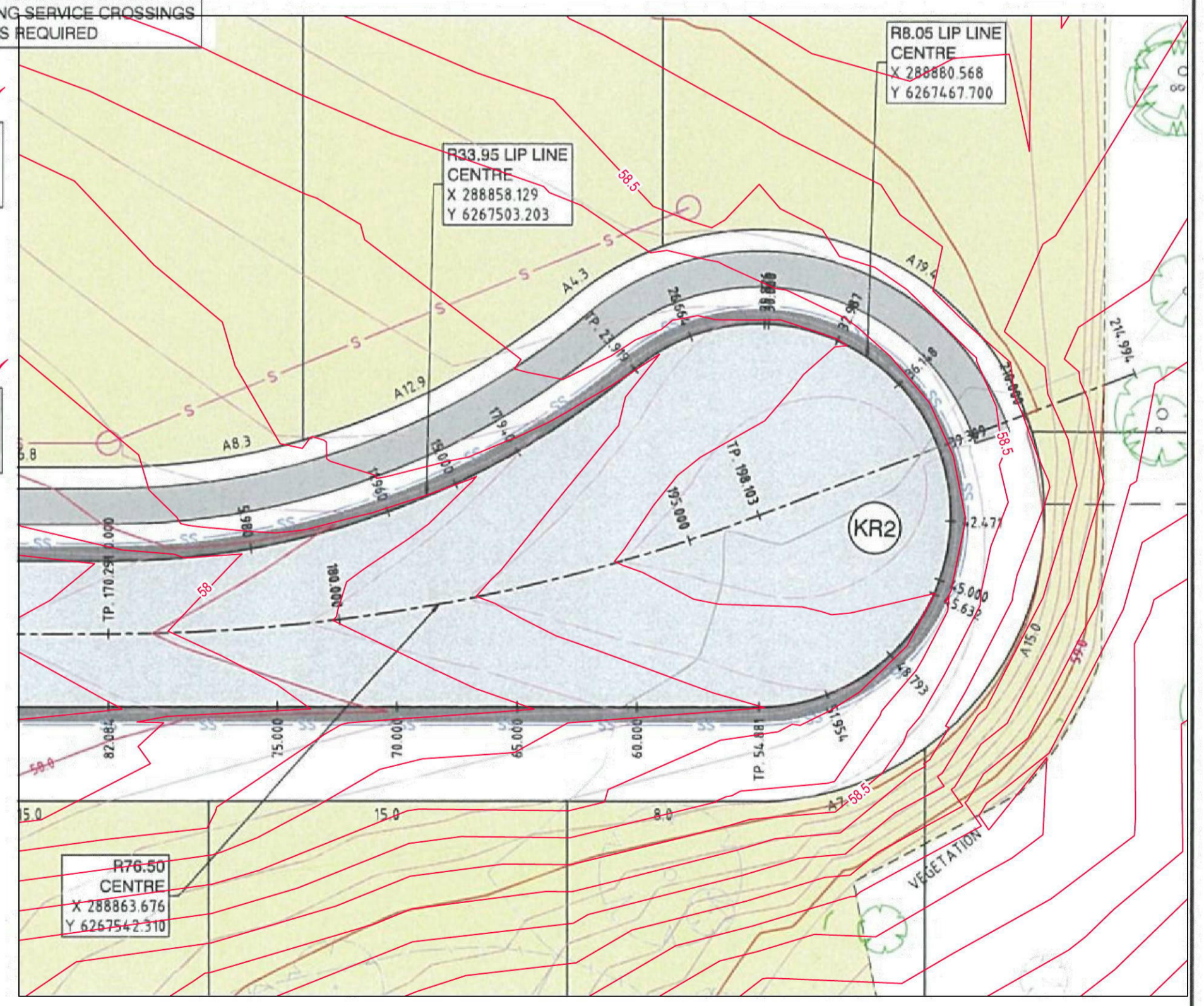
SAWCUT ROLL KERB AND CONSTRUCT COUNCIL STANDARD INDUSTRIAL LAYBACK. TIE IN WITH EXISTING KERB LEVELS

PROTECT EXISTING TREES/SHRUBS

FULL DEPTH PAVEMENT REMOVED AND CONSTRUCTED TO DESIGN LEVELS



PLAN KR1 & INTERSECTION DETAIL
SCALE 1:200



PLAN KR2 - CUL-DE-SAC
SCALE 1:200

WORK AS EXECUTED Final Issue: 11-05-2015 ISSUE FOR C.C.

NO.	DATE	REVISION DETAILS	BY
C	22.10.14	ADDITIONAL TREES TO BE RETAINED	S.W.
B	08.10.14	RE-ALIGN CASS KERB LINE (INCREASED RE-CONSTRUCTION LENGTH)	S.W./K.G.
A	29.07.14	ISSUE FOR C.C.	K.G.

NOTES

THIS IS A COLOURED PLAN. REPRODUCTION IN COLOUR ONLY.

1. ORIGIN OF LEVELS SSM 97355 R.L. 50.53 DATUM AHD

DIAL BEFORE YOU DIG
www.1100.com.au

SCALE 1:200

DATUM AHD

PREPARED BY

LEVEL 11/104 Street
Suite 2000
11/104 Street
11/104 Street
11/104 Street

RPS
rpsgroup.com

CLIENT THE TRUSTEES OF THE ROMAN CATHOLIC CHURCH FOR THE DIOCESE OF PARRAMATTA

SURVEY C.L.B.F.

DESIGNED K.G./B.L.

APPROVED B.L.

DATE OF SURVEY 18.01.13

DATE OF PLAN 20.07.14

DATE LAST SAVED 22.10.14

DATE APPROVED 20.07.14

TITLE

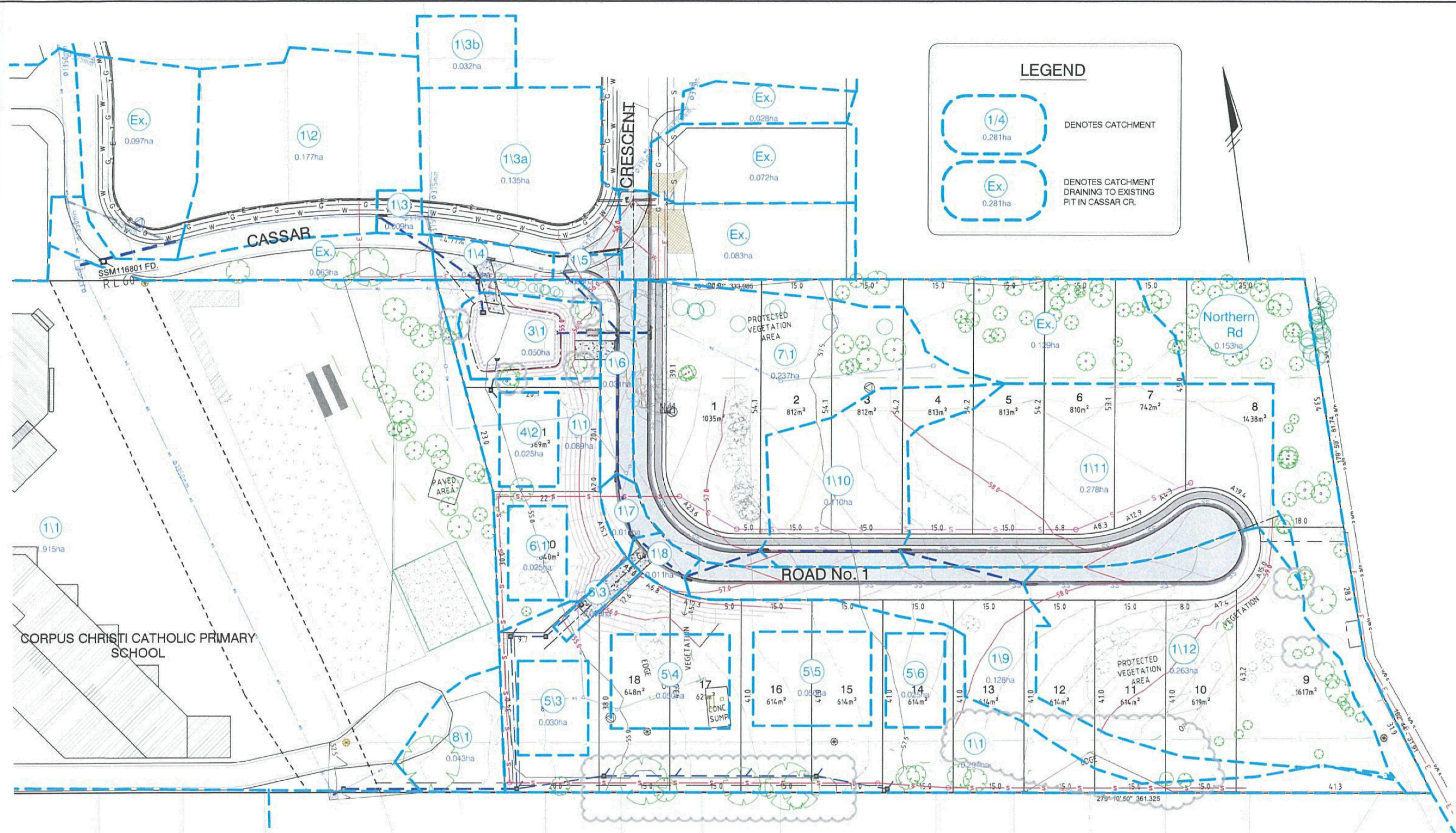
KERB RETURNS & INTERSECTION DETAIL
CIVIL WORKS
SUBDIVISION OF LOT 1 DP 1144668
ANDROMEDA DRIVE, CRANE BROOK

JOB No: **1117EG**

COGN: **E1-7**

SHEET 7 OF 15 SHEETS

DATE: **11-05-2015**



LEGEND

(1/4) 0.281ha DENOTES CATCHMENT

(Ex) 0.281ha DENOTES CATCHMENT DRAINING TO EXISTING PIT IN CASSAR CR.

WORK AS EXECUTED DRAWINGS

I hereby certify that:

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- All construction within private land has appropriate easement, right of way or restriction as to user over the whole of the structure.

Signed: *B. Frankel* Registered Surveyor RPS
Date: 11-05-2015

This plan/document relates to
DA No: CCX No:
130288-02 140030
Section 138 of the Local Government Act
[Signature]
PENRITH CITY COUNCIL

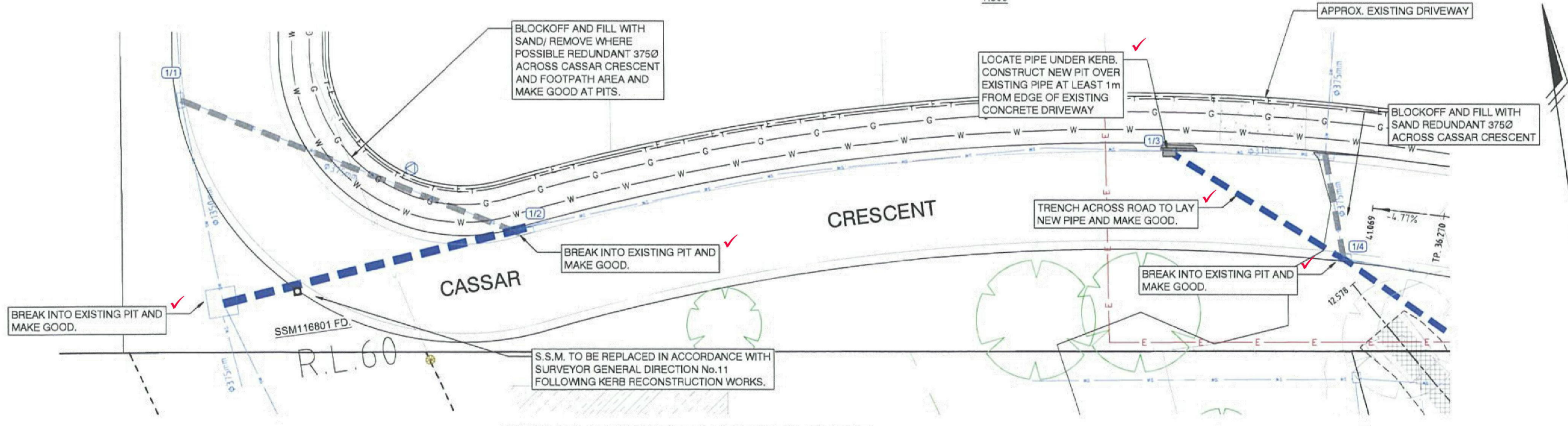
This plan/document relates to
DA No: CCX No:
130288-02 140030
Environmental Planning & Assessment Act
[Signature]
PENRITH CITY COUNCIL

NOTE
COUNCIL IS TO BE CONTACTED PRIOR TO CONNECTION INTO COUNCIL DRAINAGE TO ARRANGE INSPECTION

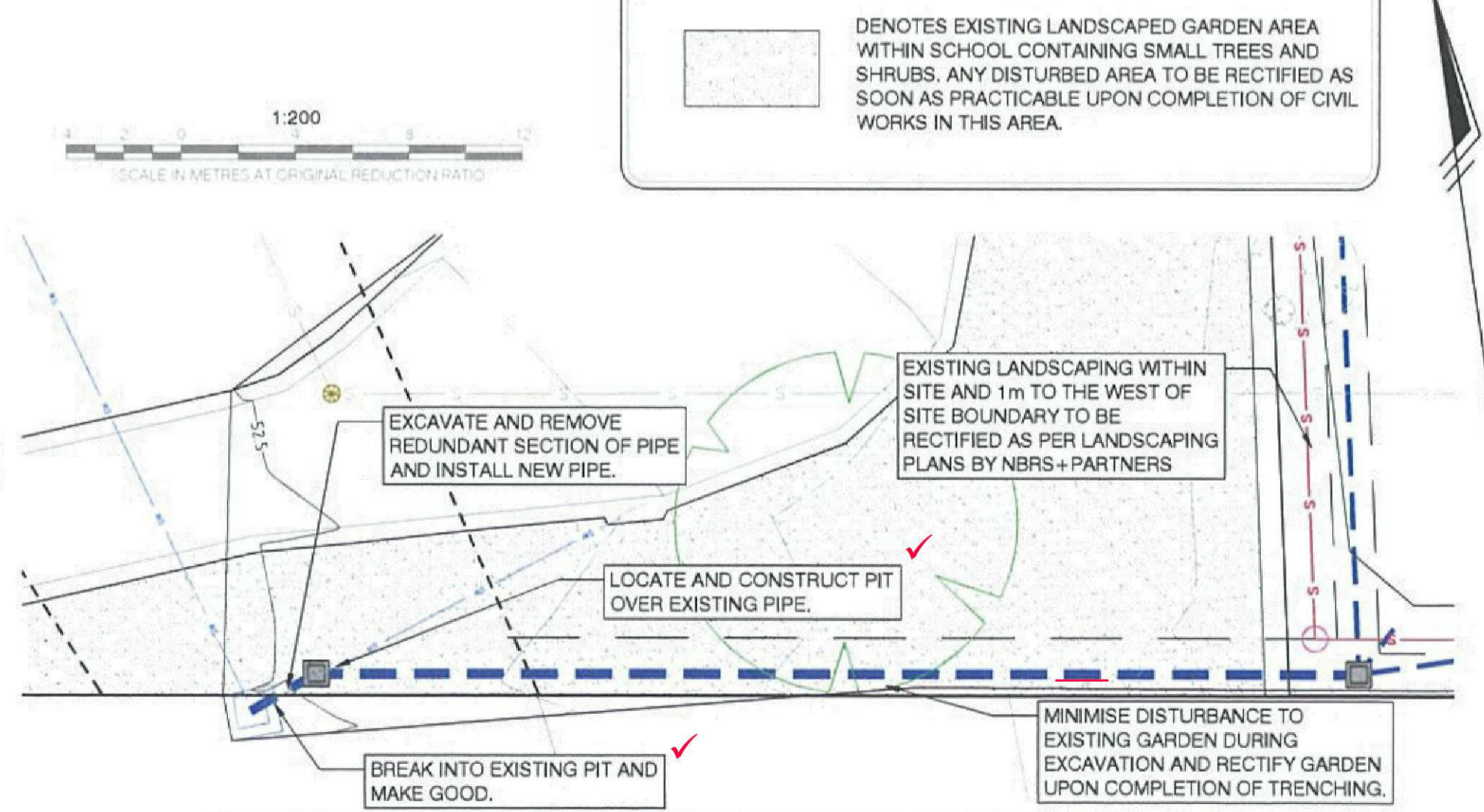
CATCHMENT PLAN
1:500

LEGEND

[Symbol] DENOTES EXISTING LANDSCAPED GARDEN AREA WITHIN SCHOOL CONTAINING SMALL TREES AND SHRUBS. ANY DISTURBED AREA TO BE RECTIFIED AS SOON AS PRACTICABLE UPON COMPLETION OF CIVIL WORKS IN THIS AREA.



CASSAR CRESCENT UPGRADE DETAIL
1:200



INTERALLOTMENT DRAINAGE CONNECTION
1:200

NO.	DATE	REVISION DETAILS	BY
C	22.10.14	AMD'D LINE 5, REDUCED LOT REGRADING(10-13), RETND TREES	S.W
B	08.10.14	REISSUE FOR COUNCIL AMENDMENTS	S.W/K.G
A	29.07.14	ISSUE FOR C.C.	K.G

NOTES

THIS IS A COLOURED PLAN. REPRODUCTION IN COLOUR ONLY.

1. ORIGIN OF LEVELS SSM 97355 R.L.50.53 DATUM AHD



SCALE: 1:500
DATUM: AHD

CONNECTION: N/A CROSS-SECTION: N/A

SCALE IN METRES AT ORIGINAL REDUCTION RATIO

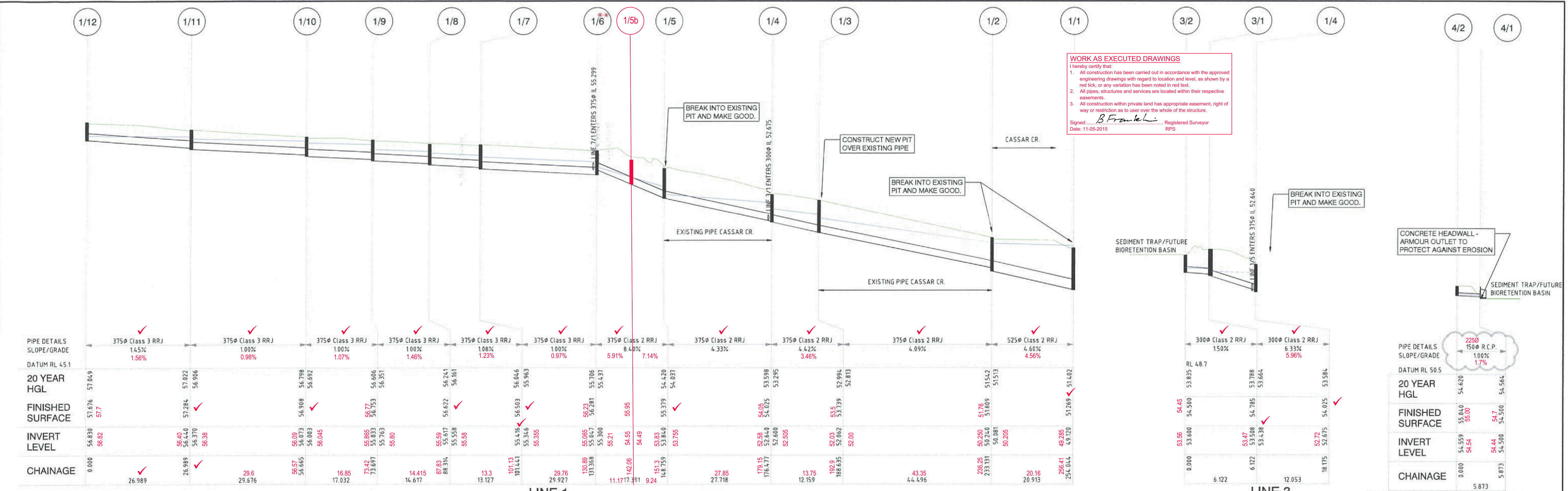
PREPARED BY: **RPS**
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WORK AS EXECUTED Final Issue: 11-05-2015

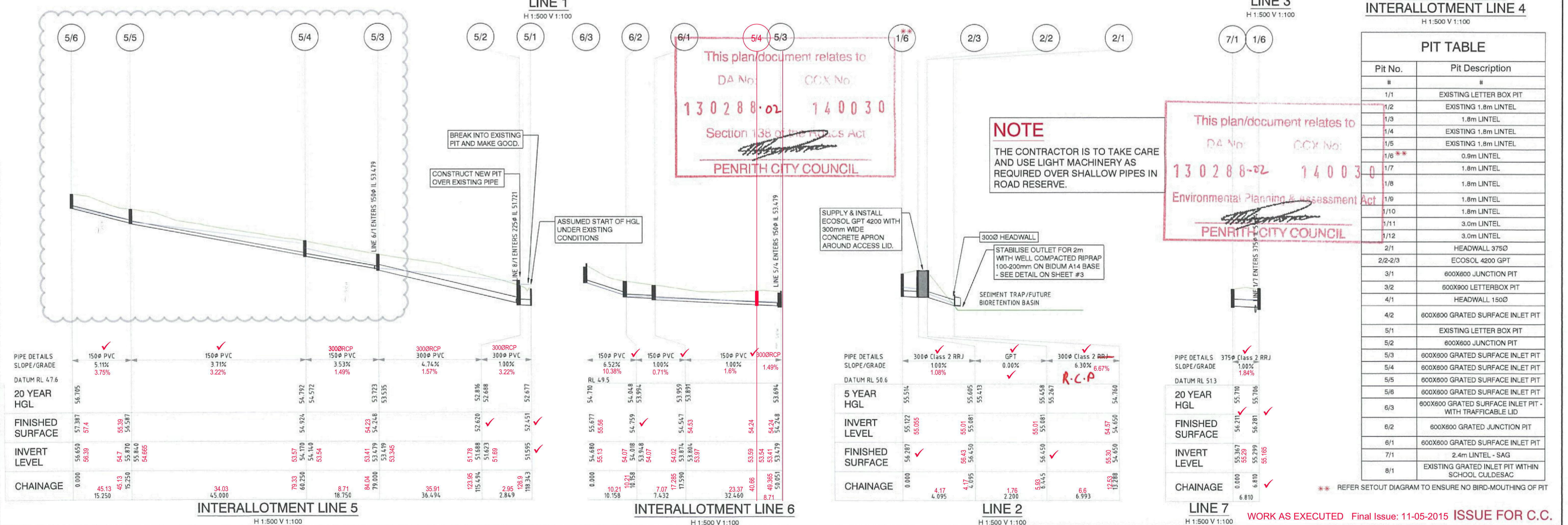
NO.	DATE	REVISION DETAILS	BY
C	22.10.14	AMD'D LINE 5, REDUCED LOT REGRADING(10-13), RETND TREES	S.W
B	08.10.14	REISSUE FOR COUNCIL AMENDMENTS	S.W/K.G
A	29.07.14	ISSUE FOR C.C.	K.G

CATCHMENT PLAN & STORMWATER DETAILS
CIVIL WORKS
SUBDIVISION OF LOT 1 DP 1144668
ANDROMEDA DRIVE, CRANE BROOK

1117EG
E1-8
SHEET 8 OF 15
SCALE: A1



WORK AS EXECUTED DRAWINGS
 I hereby certify that:
 1. All construction has been carried out in accordance with the approved engineering drawings with regard to location and level, as shown by a red tick, or any variation has been noted in red text.
 2. All pipes, structures and services are located within their respective easements.
 3. All construction within private land has appropriate easement, right of way or restriction as to user over the whole of the structure.
 Signed: *B. Frankel* Registered Surveyor
 Date: 11-05-2015



This plan/document relates to
 DA No. **130288-02** CCX No. **140030**
 Section 138 of the Planning Act
PENRITH CITY COUNCIL

NOTE
 THE CONTRACTOR IS TO TAKE CARE AND USE LIGHT MACHINERY AS REQUIRED OVER SHALLOW PIPES IN ROAD RESERVE.

This plan/document relates to
 DA No. **130288-02** CCX No. **140030**
 Environmental Planning & Assessment Act
PENRITH CITY COUNCIL

PIT TABLE	
Pit No.	Pit Description
1/1	EXISTING LETTER BOX PIT
1/2	EXISTING 1.8m LINTEL
1/3	1.8m LINTEL
1/4	EXISTING 1.8m LINTEL
1/5	EXISTING 1.8m LINTEL
1/6**	0.9m LINTEL
1/7	1.8m LINTEL
1/8	1.8m LINTEL
1/9	1.8m LINTEL
1/10	1.8m LINTEL
1/11	3.0m LINTEL
1/12	3.0m LINTEL
2/1	HEADWALL 3750
2/2-2/3	ECOSOL 4200 GPT
3/1	600X800 JUNCTION PIT
3/2	600X900 LETTERBOX PIT
4/1	HEADWALL 1500
4/2	600X800 GRATED SURFACE INLET PIT
5/1	EXISTING LETTER BOX PIT
5/2	600X800 JUNCTION PIT
5/3	600X800 GRATED SURFACE INLET PIT
5/4	600X800 GRATED SURFACE INLET PIT
5/5	600X800 GRATED SURFACE INLET PIT
5/6	600X800 GRATED SURFACE INLET PIT
6/3	600X800 GRATED SURFACE INLET PIT WITH TRAFFICABLE LID
6/2	600X800 GRATED SURFACE INLET PIT
6/1	600X800 GRATED SURFACE INLET PIT
7/1	2.4m LINTEL - SAG
8/1	EXISTING GRATED INLET PIT WITHIN SCHOOL CULDESAC

** REFER SETOUT DIAGRAM TO ENSURE NO BIRD-MOUTHING OF PIT

NO.	DATE	REVISION DETAILS	BY
C	22.10.14	AMD INTER. LINE 5(AVOID TREES), CHANGE PIPE 4/2-4/1 TO R.C.P.	S.W.
B	08.10.14	ADJ. PIT 1/8, ADD NOTES RE PIT 1/8 BIRD MOUTHING & LINTEL SIZE	S.W./K.G.
A	29.07.14	ISSUE FOR C.C.	K.G.

THIS IS A COLOURED PLAN. REPRODUCTION IN COLOUR ONLY.
 1. ORIGIN OF LEVELS SSM 97355 R.L. 50.53 DATUM AHD



SCALE: HORIZONTAL 1:500 VERTICAL 1:100
 DATUM: AHD
 PREPARED BY: RPS



THE TRUSTEES OF THE ROMAN CATHOLIC CHURCH FOR THE DIOCESE OF PARRAMATTA
 SURVEYOR: C.L.B.F.
 DRAFTER: K.G.
 REGISTERED: K.G./B.L.
 APPROVED: B.L.

WORK AS EXECUTED Final Issue: 11-05-2015 ISSUE FOR C.C.

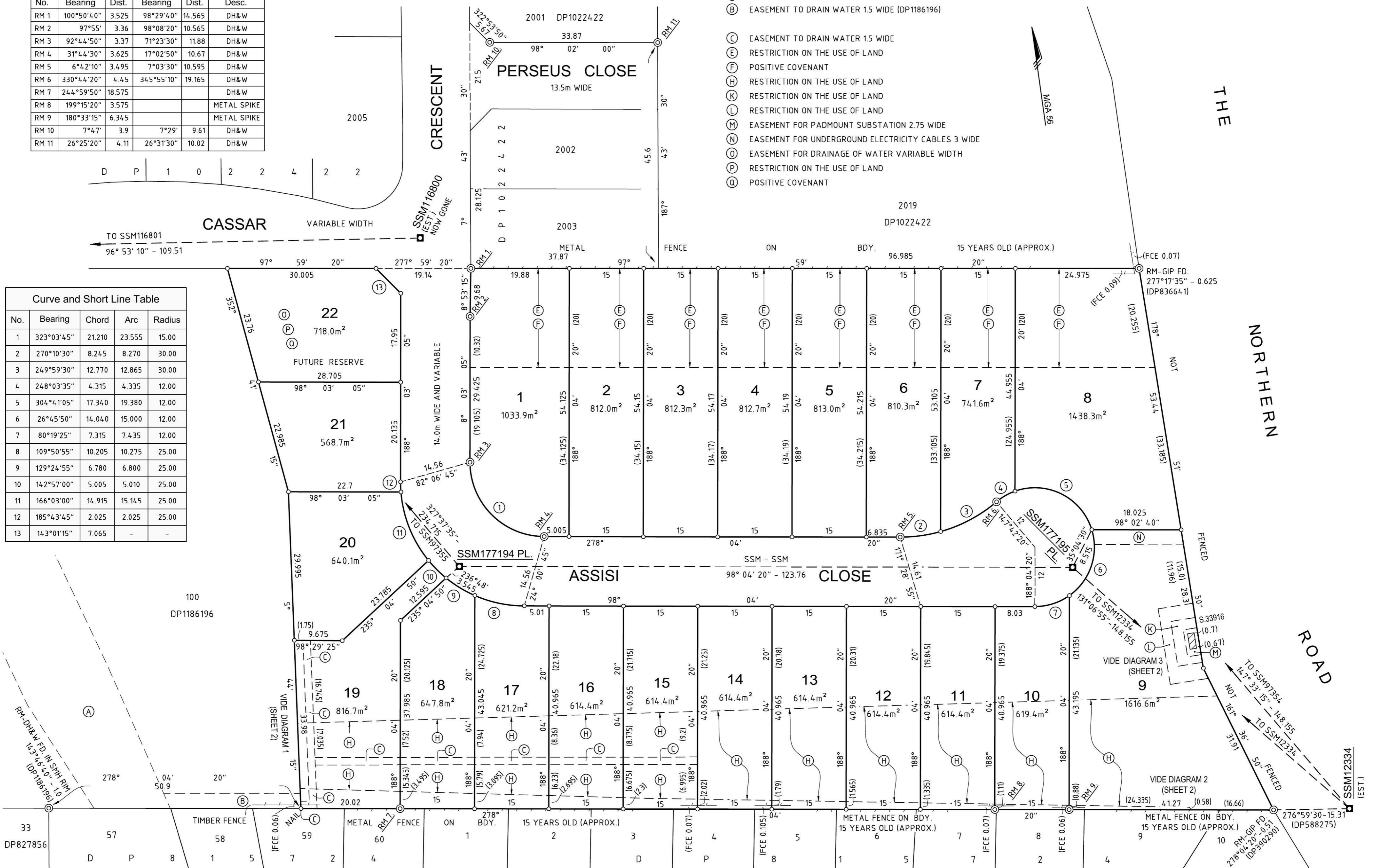
DRAINAGE LONG. SECTIONS CIVIL WORKS
 SUBDIVISION OF LOT 1 DP 1144668
 ANDROMEDA DRIVE, CRANE BROOK

JOB No: **1117EG**
 DRAW No: **E1-9**
 SHEET 9 OF 15 SHEETS

Reference Mark Schedule					
No.	Bearing	Dist.	Bearing	Dist.	Desc.
RM 1	100°50'40"	3.525	98°29'40"	14.565	DH&W
RM 2	97°55'	3.36	98°08'20"	10.565	DH&W
RM 3	92°44'50"	3.37	71°23'30"	11.88	DH&W
RM 4	31°44'30"	3.625	17°02'50"	10.67	DH&W
RM 5	6°42'10"	3.495	7°03'30"	10.595	DH&W
RM 6	330°44'20"	4.45	345°55'10"	19.165	DH&W
RM 7	244°59'50"	18.575			DH&W
RM 8	199°15'20"	3.575			METAL SPIKE
RM 9	180°33'15"	6.345			METAL SPIKE
RM 10	7°47'	3.9	7°29'	9.61	DH&W
RM 11	26°25'20"	4.11	26°31'30"	10.02	DH&W

- (A) EASEMENT TO DRAIN WATER 18 WIDE AND VARIABLE (DP836641)
- (B) EASEMENT TO DRAIN WATER 1.5 WIDE (DP1186196)
- (C) EASEMENT TO DRAIN WATER 1.5 WIDE
- (E) RESTRICTION ON THE USE OF LAND
- (F) POSITIVE COVENANT
- (H) RESTRICTION ON THE USE OF LAND
- (K) RESTRICTION ON THE USE OF LAND
- (L) RESTRICTION ON THE USE OF LAND
- (M) EASEMENT FOR PADMOUNT SUBSTATION 2.75 WIDE
- (N) EASEMENT FOR UNDERGROUND ELECTRICITY CABLES 3 WIDE
- (O) EASEMENT FOR DRAINAGE OF WATER VARIABLE WIDTH
- (P) RESTRICTION ON THE USE OF LAND
- (Q) POSITIVE COVENANT

Curve and Short Line Table				
No.	Bearing	Chord	Arc	Radius
1	323°03'45"	21.210	23.555	15.00
2	270°10'30"	8.245	8.270	30.00
3	249°59'30"	12.770	12.865	30.00
4	248°03'35"	4.315	4.335	12.00
5	304°41'05"	17.340	19.380	12.00
6	26°45'50"	14.040	15.000	12.00
7	80°19'25"	7.315	7.435	12.00
8	109°50'55"	10.205	10.275	25.00
9	129°24'55"	6.780	6.800	25.00
10	142°57'00"	5.005	5.010	25.00
11	166°03'00"	14.915	15.145	25.00
12	185°43'45"	2.025	2.025	25.00
13	143°01'15"	7.065	-	-



Surveyor : Brian John Franklin Date of Survey : 20.04.2015 Surveyor's Ref : I117SW_S04r.dwg	PLAN OF SUBDIVISION OF LOT 101 IN DP1186196	LGA : PENRITH Locality : CRANEBROOK Subdivision No : Lengths are in metres. Reduction Ratio 1 : 500
		Registered

