

APPENDIX C

C.2 CIVIL DRAWINGS

McCARRS CREEK ROAD REALIGNMENT AND NEW CARPARK

CIVIL WORKS PACKAGE - DA APPROVAL

PITTWATER COUNCIL

CIVIL DESIGN DRAWING LIST

GENERAL

C-00-001	COVER SHEET AND DRAWING LIST
C-00-002	GENERAL NOTES

CIVIL WORKS

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IMAGERY EXTRACTED FROM GOOGLE EARTH

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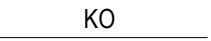
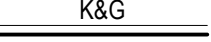
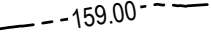
DRAWING NOTES

- 1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
- 2. ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE PRINCIPAL FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
- 3. ALL WORKMANSHIP AND MATERIAL SHALL COMPLY WITH THE BUILDING CODE OF AUSTRALIA AS AMENDED AND THE APPROPRIATE AND CURRENT AUSTRALIAN STANDARDS.
- 4. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE CIVIL DRAWINGS.
- 5. ALL DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED ON SITE BY THE BUILDER PRIOR TO CONSTRUCTION OR FABRICATION.

GENERAL NOTES

- 1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH PITTWATER COUNCIL DESIGN GUIDELINES & WORKS SPECIFICATION. WHERE DISCREPANCIES OCCUR THE MORE STRINGENT SPECIFICATION WILL TAKE PRECEDENCE.
- 2. THE CONTRACTOR SHALL LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION AND SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST AS REQUIRED. ALL COSTS TO BE BORNE BY THE APPLICANT.
- 3. THE CONTRACTOR SHALL NOT ENTER UPON OR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT PRIOR WRITTEN PERMISSION OF THE LAND OWNER.
- 4. SURVEY MARKS SHOWN THUS  SHALL BE MAINTAINED AT ALL TIMES. WHERE RETENTION IS NOT POSSIBLE THE PRINCIPLE SHALL BE NOTIFIED AND CONSENT RECEIVED PRIOR TO THEIR REMOVAL.
- 5. ALL LAND DISTURBED BY EARTHWORKS SHALL BE HYDOMULCHED, OR SIMILARLY TREATED TO ESTABLISH GRASS COVER. SEED MIXTURES ARE TO BE APPROVED BY COUNCIL PRIOR TO SPRAYING. ALL GRASSED AREAS SHALL BE REGULARLY WATERED AND MAINTAINED UNTIL EXPIRATION OF THE MAINTENANCE PERIOD.
- 6. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL THROUGHOUT THE DURATION OF THE PROJECT.
- 7. ALL DRAINAGE LINES SHALL BE CONTAINED WITHIN THEIR EASEMENTS AND CONFORM WITH COUNCIL'S STANDARDS.
- 8. SUBSOIL DRAINS SHALL BE CONSTRUCTED TO THE SATISFACTION OF THE COUNCIL OR RMS SPECIFICATION WHERE APPLICABLE.
- 9. MINIMUM 100mm THICK TOPSOIL SHALL BE SPREAD ON ALL FOOTPATHS, BERMS, BATTERS AND SITE REGRADING AREAS. EXCESS TOPSOIL SHALL BE DISPOSED OF AS DIRECTED BY THE PRINCIPAL.
- 10. THE CONTRACTOR SHALL PROVIDE MINIMUM 48 HOURS NOTICE TO THE PRINCIPLE FOR ALL INSPECTIONS.
- 11. THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO THE ADJOINING PROPERTIES.
- 12. THE CONTRACTOR SHALL UNDERTAKE TRAFFIC CONTROL MANAGEMENT MEASURES TO THE PRINCIPLE'S SATISFACTION AND SHALL DISPLAY APPROPRIATE WARNING SIGNS THROUGHOUT THE DURATION OF CONSTRUCTION.
- 13. ALL NATURAL SURFACE DATA HAS BEEN DETERMINED BY TERRAIN MODELLING. ALL CONSTRUCTION SITE WORKS MUST BE CARRIED OUT USING THE BENCH MARKS NOTED IN THIS DRAWINGS.
- 14. 100 YEAR FLOW PATHS TO BE FORMED AT TIME OF CONSTRUCTION.
- 15. WHERE CONNECTION OR TIE IN WITH EXISTING SURFACES AND/OR SERVICES, LEVELS TO BE CONFIRMED WITH THE ENGINEER PRIOR TO COMMENCEMENT OF WORKS

LEGEND

	KERB ONLY
	MOUNTABLE KERB
	ELSHOLZ KERB
	KERB AND GUTTER
	DISH DRAIN
	PROPOSED SEAWALL
	PROPOSED STORMWATER DRAINAGE
	PROPOSED STORMWATER PIT
	HEADWALL WITH SCOUR PROTECTION
	FINISHED REDUCED LEVEL
	PROPOSED CONTOURS
	EXISTING CONTOURS

SURVEY NOTES

SITE BOUNDARIES AND EASEMENTS WERE SUPPLIED BY -
SOUTER & ASSOCIATES
DRAWING NUMBER: CHURCHCOUNCIL
DATED: 13/11/2007.

MARKED AND SURVEYED EXISTING UTILITIES WERE SUPPLIED BY -
SOUTER & ASSOCIATES
DRAWING NUMBER: CHURCHCOUNCIL
DATED: 13/11/2007.

LOCAL SURVEY MARKS

SSM25045	E N RL
ORIGIN OF COORDINATES	- MGA
ORIGIN OF LEVELS	- AHD

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY SOUTER & ASSOCIATES, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. ARCADIS DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT ARCADIS

SITeworks NOTES

- 1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.
- 2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO ARCADIS.
- 3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
- 4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- 5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- 6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
- 7. ASPHALTIC CONCRETE SHALL CONFORM TO R.T.A. SPECIFICATION R116.
- 8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.T.A. FORM 3051 (UNBOUND), R.T.A. FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF BASECOURSE MATERIAL PLACED.
- 9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.T.A. FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF SUB-BASE COURSE MATERIAL PLACED.
- 10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH R.T.A. FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF ARCADIS.
- 11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
- 12. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

EROSION AND SEDIMENT

CONTROL NOTES

GENERAL INSTRUCTIONS

- 1. THE SITE CONTRACTOR/ENGINEER/MANAGER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
 - 2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
 - a. LOCAL AUTHORITY REQUIREMENTS
 - b. EPA REQUIREMENTS
 - c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
 - 3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE PRINCIPLE AND THE LOCAL AUTHORITY.
 - 4. AT ALL TIMES A WATER CART(S) SHALL BE MAINTAINED ON SITE TO:
 - A. WATER THE AREAS OF HYDROMULCH
 - B. CONTROL DUSTWATERING OF MULCH, DUST OR VEGETATION MUST BE KEPT TO THE MINIMUM REQUIRED TO ACHIEVE SPECIFIED OUTCOMES. IN NO CASE SHALL AREAS BE OVER WATERED TO SATURATION OR TO THE POINT WHERE WATER PONDS ON THE SURFACE.
 - 5. STORMWATER IN THE SETTLING ZONE OF ANY SEDIMENT CONTROL BASIN(S) SHALL BE DRAINED OR PUMPED OUT WITHIN 5 DAYS FOLLOWING RAINFALL EVENT IF THE NOMINATED WATER QUALITY TARGETS CAN BE MET. THE LOWER LEVEL OF THE SETTLING ZONE SHALL BE IDENTIFIED WITH A PEG THAT SHOWS CLEARLY THE LEVEL WHICH DESIGN CAPACITY IS AVAILABLE.
 - 6. STORED SEDIMENT SHALL NOT ENCROACH INTO SETTLING ZONE OF ANY SEDIMENT CONTROL BASIN(S). SEDIMENT REMOVED FROM SEDIMENT BASIN SHALL BE DISPOSED OF IN PLACES THAT WILL NOT RESULT IN A FUTURE EROSION OR POLLUTION HAZARD.
 - 7. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT CONTROLS ARE ERECTED AROUND PITS.
 - 8. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.
- LAND DISTURBANCE**
- 9. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
 - A. MAINTAIN EXISTING SEDIMENT FENCES INSTALLED AS PART OF THE ENABLING WORKS AND INSTALL NEW SEDIMENT FENCES AS SHOWN.
 - B. INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN AND AS REQUIRED.
 - C. UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.
 - 10. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
 - 11. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL

- 12. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
- 13. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
- 14. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
- 15. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED/STABILISED.

EROSION AND SEDIMENT

CONTROL NOTES (CONT)

- 16. ALL PROPOSED PITS TO HAVE GEOTEXTILE INLET FILTERS PRIOR TO PAVEMENT CONSTRUCTION. PROVIDE MESH AND GRAVEL INLET FILTER TO KERB INLET PITS ONCE PAVEMENT IS CONSTRUCTED.
- OTHER MATTERS**
- 17. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- 18. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LANDSCAPE ARCHITECTS DETAILS.
- 19. ALL AREAS OF PUBLIC THOROUGHFARE MUST BE KEPT CLEAN AND FREE OF WATER RUNOFF, SEDIMENT AND CONSTRUCTION MATERIALS AT ALL TIMES. THIS INCLUDES AREAS OUTSIDE OF THE SITE BOUNDARY.
- 20. SITE SECURITY AND EROSION AND SEDIMENT CONTROL MEASURES MUST BE CHECKED AND DEEMED SAFE BY THE CIVIL WORKS CONTRACTOR PRIOR TO LEAVING THE SITE EACH DAY.

BULK EARTHWORKS NOTES

- 1. ORIGIN OF LEVELS: REFER SURVEY NOTES
- 2. STRIP ALL TOPSOIL/ORGANIC MATERIAL FROM CONSTRUCTION AREA AND REMOVE FROM SITE OR STOCK PILE AS DIRECTED BY SUPERINTENDENT.
- 3. EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE MATERIAL IS +/- 2% OF THE OPTIMUM MOISTURE CONTENT.
- 4. COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:

LOCATION	STANDARD DRY DENSITY (AS 1289 E 5.1.1)
UNDER BUILDING SLABS ON GROUND	98%
UNDER ROADS AND CARPARKS	98%
LANDSCAPED AREAS UNLESS NOTED OTHERWISE	98%
- 5. FOR NON COHESIVE MATERIAL, COMPACT TO 75% DENSITY INDEX.
- 6. BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH AN 8 TONNE (MIN) DEADWEIGHT SMOOTH DRUM NON VIBRATORY ROLLER TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER).
- 7. FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN :-
 - a. 1 TEST PER 200m² OF FILL PLACED PER 300 LAYER OF FILL.
 - b. 3 TESTS PER VISIT
 - c. 1 TEST PER 1000m² OF EXPOSED SUBGRADE TESTING SHALL BE LEVEL 1 TESTING IN ACCORDANCE WITH AS 3798 (1996).
- 8. FILLING TO BE PLACED AND COMPACTED IN MAXIMUM 150mm LAYERS
- 9. NO FILLING SHALL TAKE PLACE TO EXPOSE SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF ARCADIS OR GEOTECHNICAL ENGINEER AND APPROVAL GIVEN IN WRITING THAT FILLING CAN PROCEED.

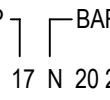
CONCRETE NOTES

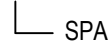
- 1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- 2. CONCRETE QUALITY ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

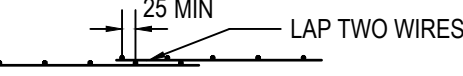
ELEMENT	AS 3600 F'c MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE KERBS, PATHS, AND PITS	32 25	60 80	20 20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.
- 3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY ARCADIS.
- 4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
- 5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- 6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.T.A. SPECIFICATION R83.
- 7. REINFORCEMENT SYMBOLS:

N	DENOTES GRADE 450 N BARS TO AS 4671 GRADE N
R	DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 4671
SL	DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 4671

NUMBER OF BARS IN GROUP  BAR GRADE AND TYPE

NOMINAL BAR SIZE IN mm  SPACING IN mm

THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS 4671.
- 8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAILS:

KERBING NOTES

- 1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa U.N.O IN REINFORCED CONCRETE NOTES.
 - 2. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).
 - 3. EXPANSION JOINTS (E.J) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
 - 4. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
 - 5. BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
 - 6. IN THE REPLACEMENT OF KERB AND GUTTER - EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 900mm WIDE U.N.O.
- EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB AND GUTTER WITH 100mm DIA HOLE.
- EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.

EXISTING UNDERGROUND SERVICES NOTES

- 1. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.
- 2. ARCADIS CANNOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.
- 3. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.
- 4. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.
- 5. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

02	ISSUE FOR DA APPROVAL	11.11.15
01	ISSUE FOR DA APPROVAL	09.11.15
Issue	Description	Date

100mm on Original

Client



Status		
DA APPROVAL NOT TO BE USED FOR CONSTRUCTION		
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Original Size	A1	Designed J.WOOD
Height Datum	AHD	Checked K.MCMULLEN
Grid	MGA	Approved
Filename: C-00-002-aa006979-nsd-Notes.dwg		

Project

McCARRS CREEK ROAD
REALIGNMENT AND CARPARK

Title

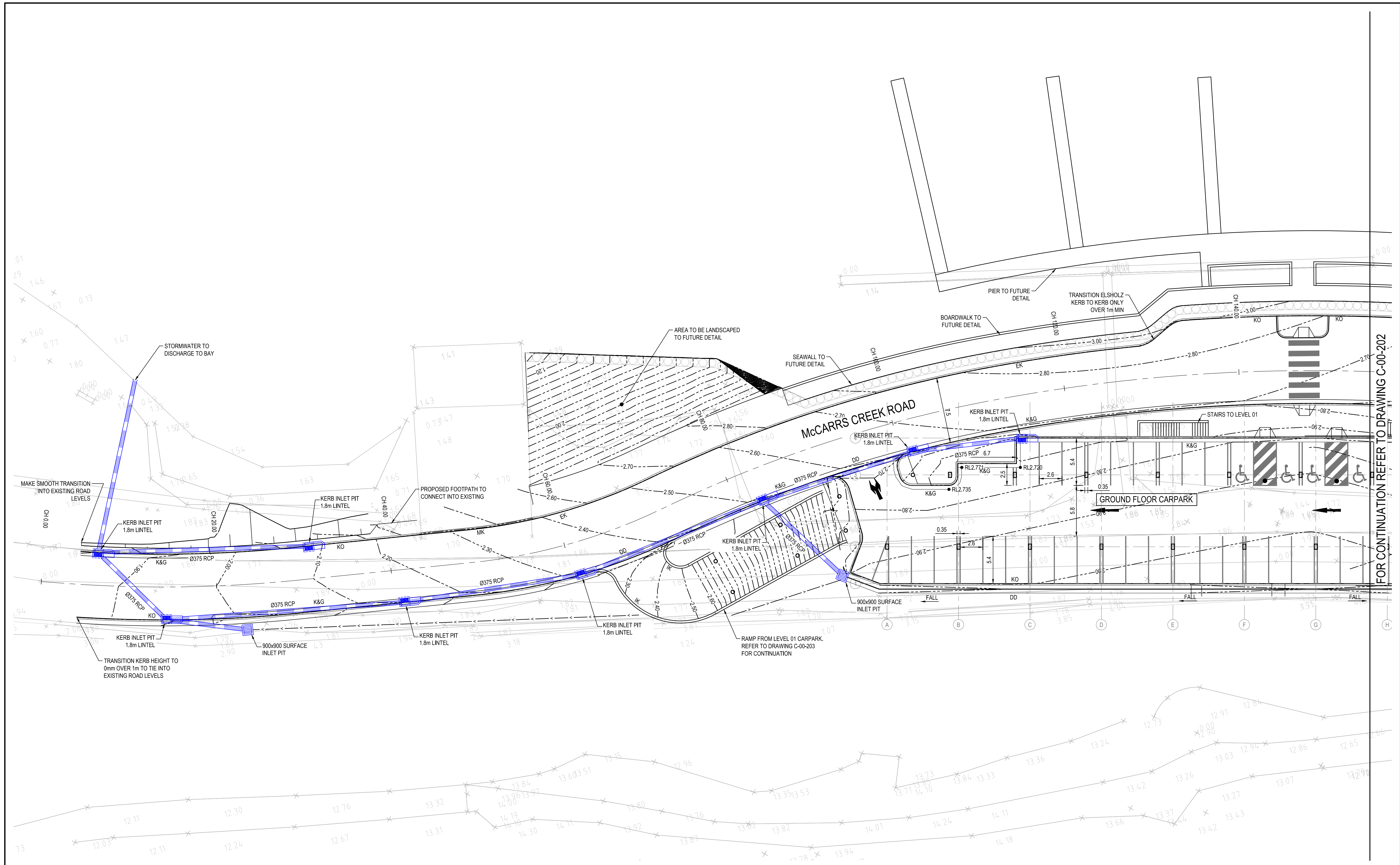
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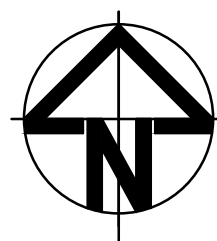
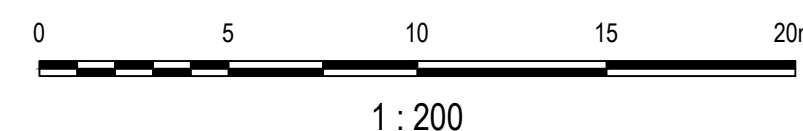
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Drawing No. | Project No. | Issue

C-00-002 — AA006979 — 02



03	ISSUE FOR DA APPROVAL	11.11.15
02	ISSUE FOR DA APPROVAL	09.11.15
01	ISSUE FOR INFORMATION	27.10.15
Issue	Description	Date



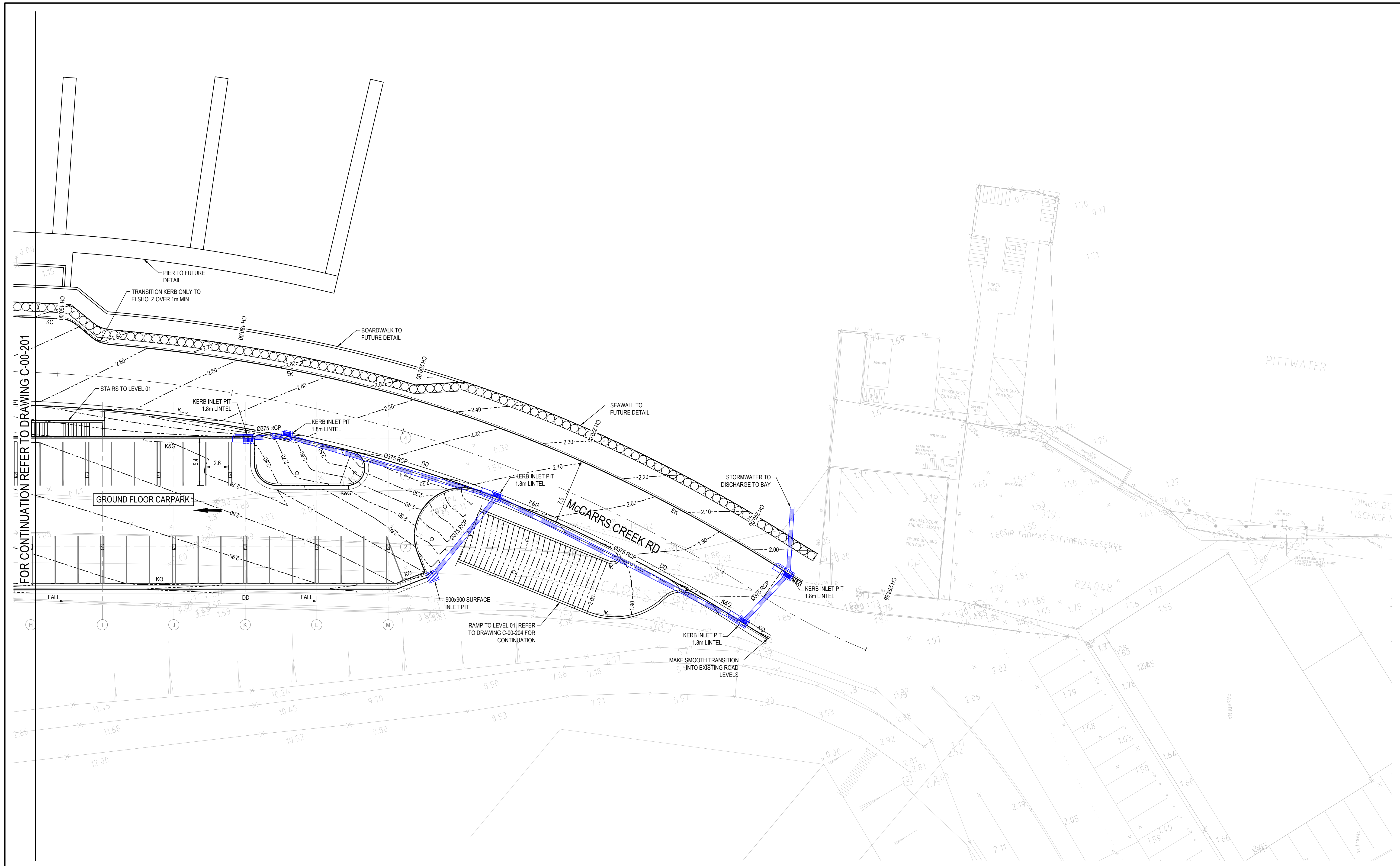
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Grid		Approved
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Project	McCARRS CREEK ROAD REALIGNMENT AND CARPARK	
Title	CIVIL WORKS PLAN SHEET 1	

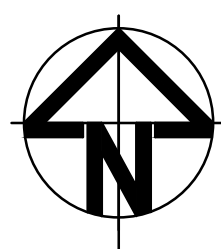
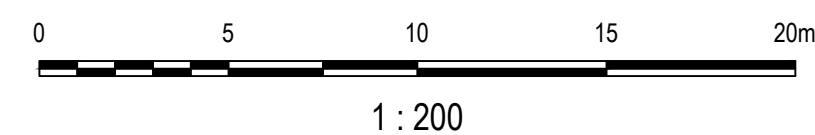


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03	ISSUE FOR DA APPROVAL	11.11.15
02	ISSUE FOR DA APPROVAL	09.11.15
01	ISSUE FOR INFORMATION	27.10.15
Issue	Description	Date



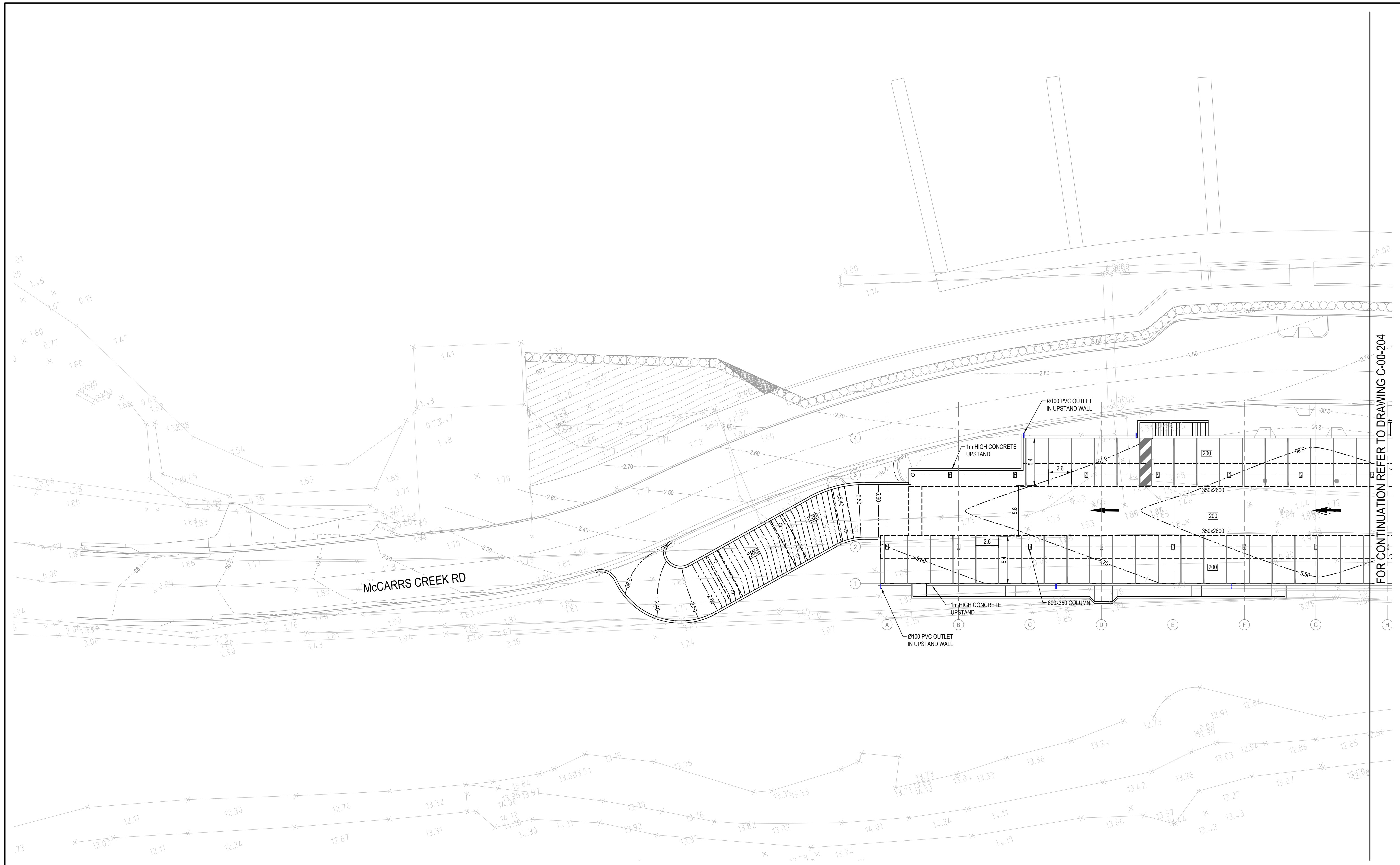
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Project	McCARRS CREEK ROAD REALIGNMENT AND CARPARK	
Title	CIVIL WORKS PLAN SHEET 2	



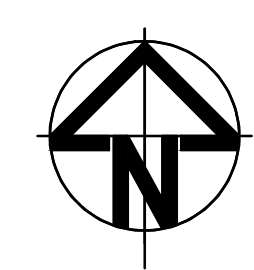
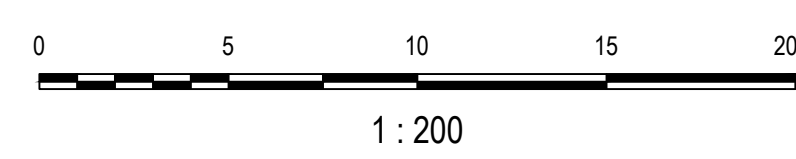
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Drawing No.	Project No.	Issue
C-00-202	AA006979	03



FOR CONTINUATION REFER TO DRAWING C-00-204

03	ISSUE FOR DA APPROVAL	11.11.15
02	ISSUE FOR DA APPROVAL	09.11.15
01	ISSUE FOR INFORMATION	27.10.15
Issue	Description	Date



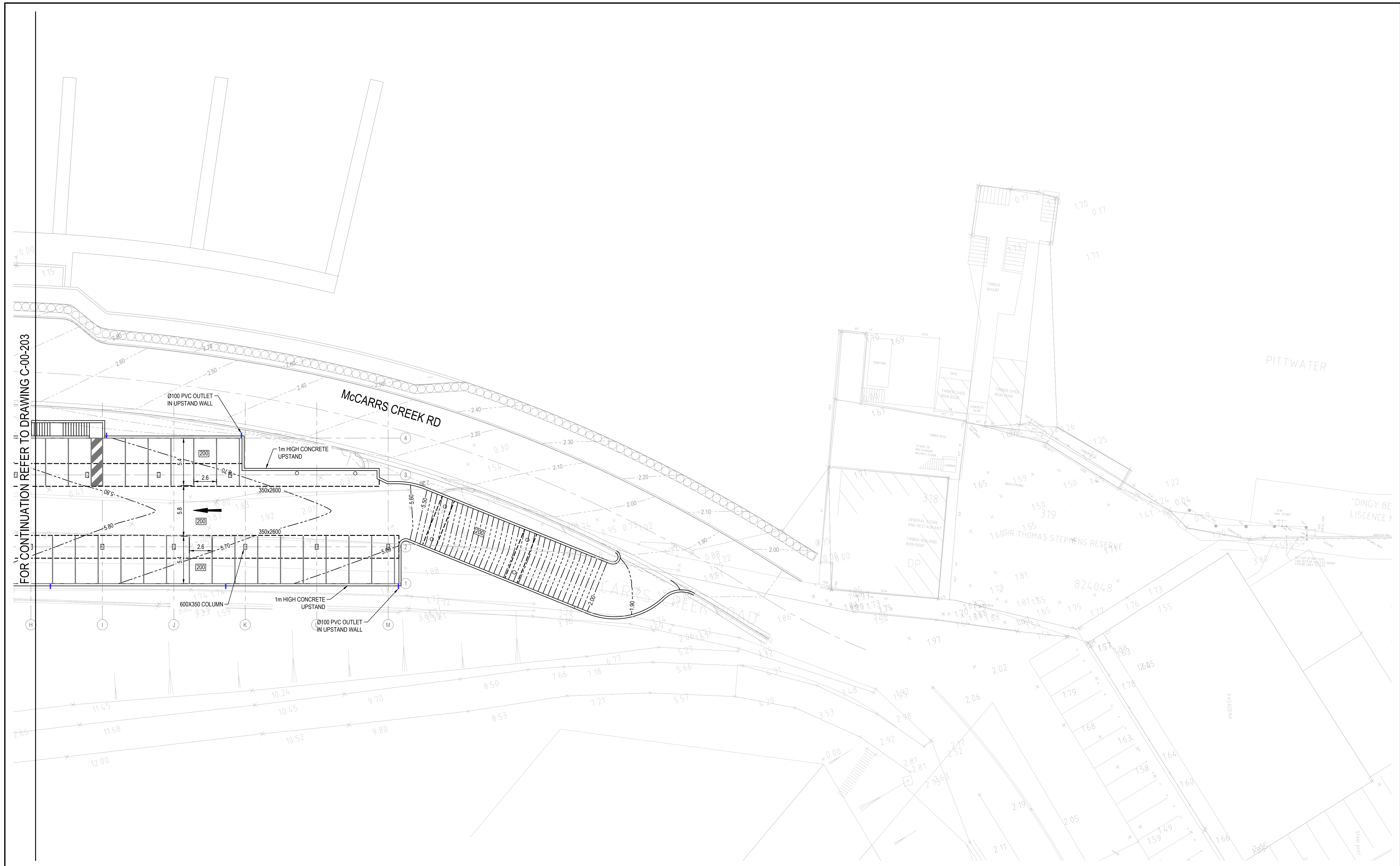
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Title	CIVIL WORKS PLAN CARPARK LEVEL 01 SHEET 1	

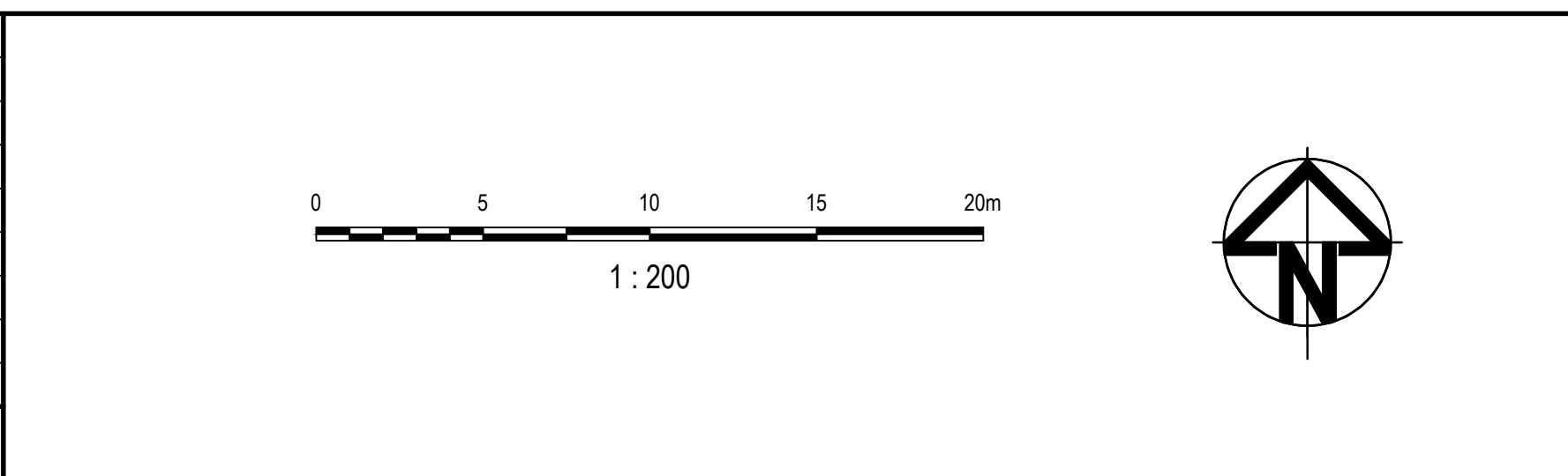


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C-00-203	AA006979	03



03	ISSUE FOR DA APPROVAL	11.11.15
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01	ISSUE FOR INFORMATION	27.10.15
Issue	Description	Date



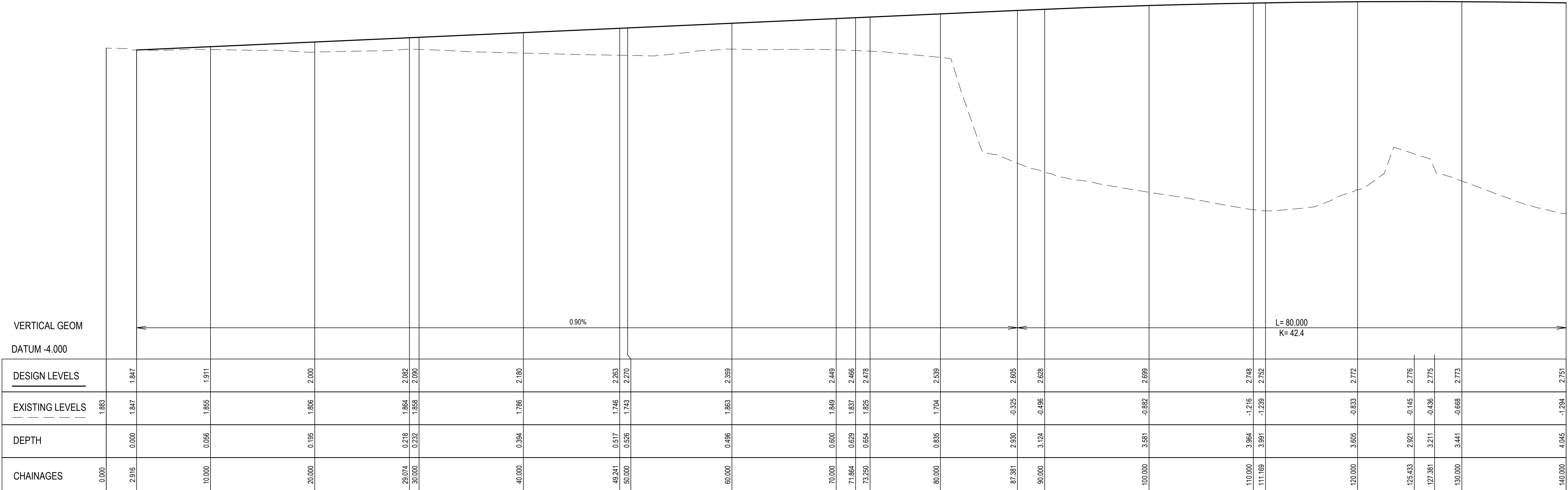
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Project	McCARRS CREEK ROAD REALIGNMENT AND CARPARK	
Title	CIVIL WORKS PLAN CARPARK LEVEL 01 SHEET 2	



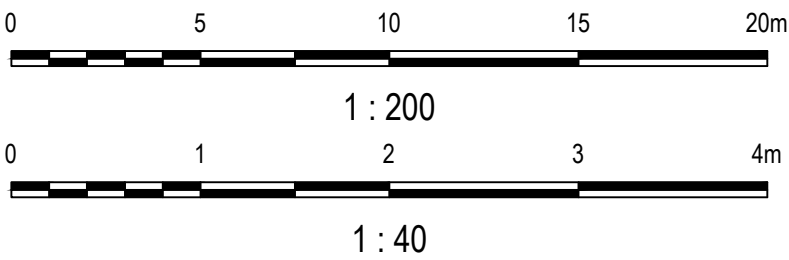
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C-00-204	AA006979	03



McCARRS CREEK ROAD LONGITUDINAL SECTION
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:40

03	ISSUE FOR DA APPROVAL	11.11.15
02	ISSUE FOR DA APPROVAL	09.11.15
01	ISSUE FOR INFORMATION	27.10.15
Issue	Description	Date



Client

Status
DA APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Scales
AS SHOWN

Original Size
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Height Datum
AHD

Grid
MGA

Filename:
C-00-211-aa006979-nsd-RoadLongSectionsSheet1.dwg

Current Issue Signatures

Drawn
J.WOOD

Designed
J.WOOD

Checked
K.MCMULLEN

Approved

Project
McCARRS CREEK ROAD
REALIGNMENT AND CARPARK

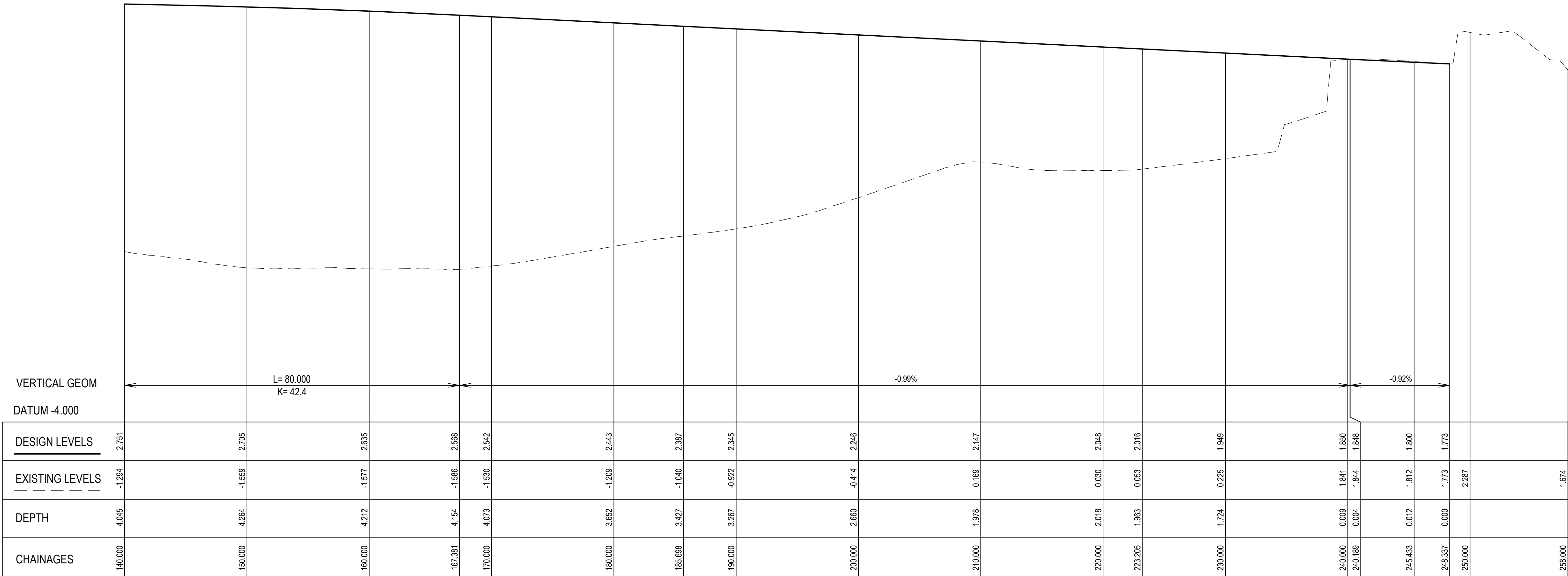
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ROAD LONGITUDINAL SECTIONS
SHEET 1

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Drawing No.
C-00-211

Project No.
AA006979

Issue
03

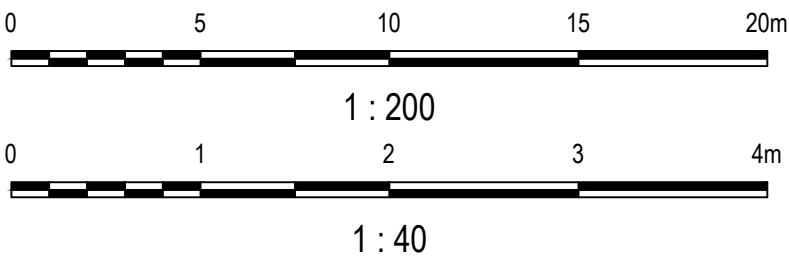


McCARRS CREEK ROAD LONGITUDINAL SECTION

HORIZONTAL SCALE 1:200

VERTICAL SCALE 1:40

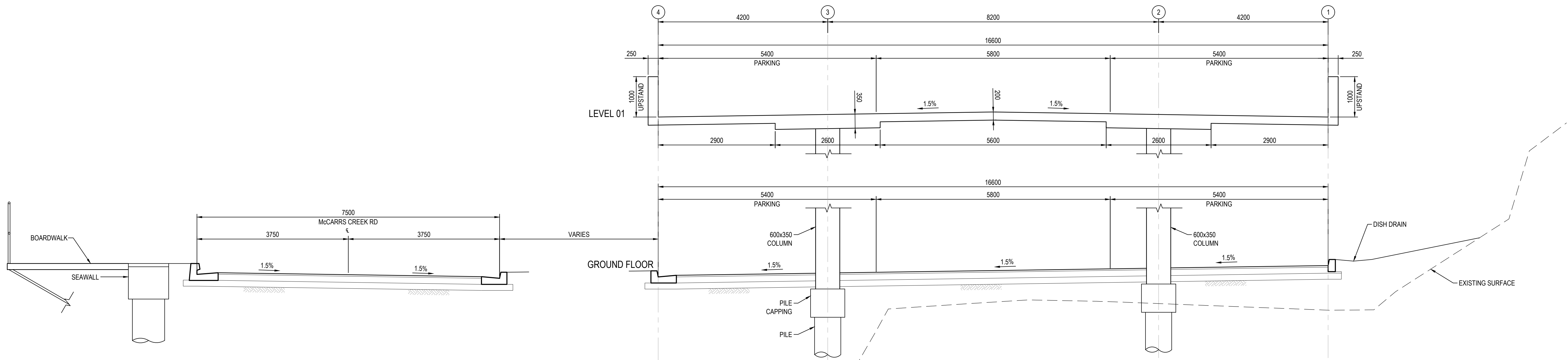
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02	ISSUE FOR DA APPROVAL	09.11.15
01	ISSUE FOR INFORMATION	27.10.15
Issue	Description	Date



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Title	ROAD LONGITUDINAL SECTIONS SHEET 2	
	Drawing No.	Project No.
	C-00-212	AA006979
	Issue	03

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McCARRS CREEK RD TYPICAL SECTION
SCALE 1:50

CARPARK TYPICAL SECTION
SCALE 1:50

03	ISSUE FOR DA APPROVAL	11.11.15
02	ISSUE FOR DA APPROVAL	09.11.15
01	ISSUE FOR INFORMATION	27.10.15
Issue	Description	Date

Client

PITTWATER
COUNCIL

Status DA APPROVAL NOT TO BE USED FOR CONSTRUCTION		
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Title	TYPICAL SECTIONS

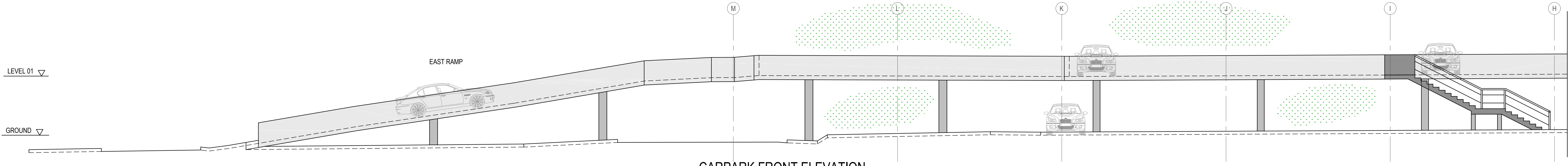

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Drawing No.

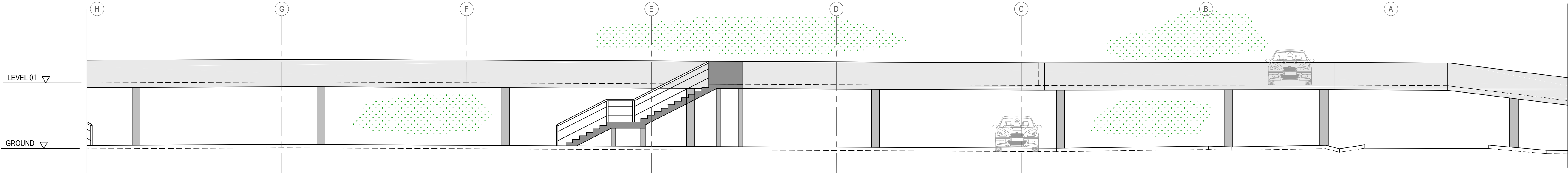
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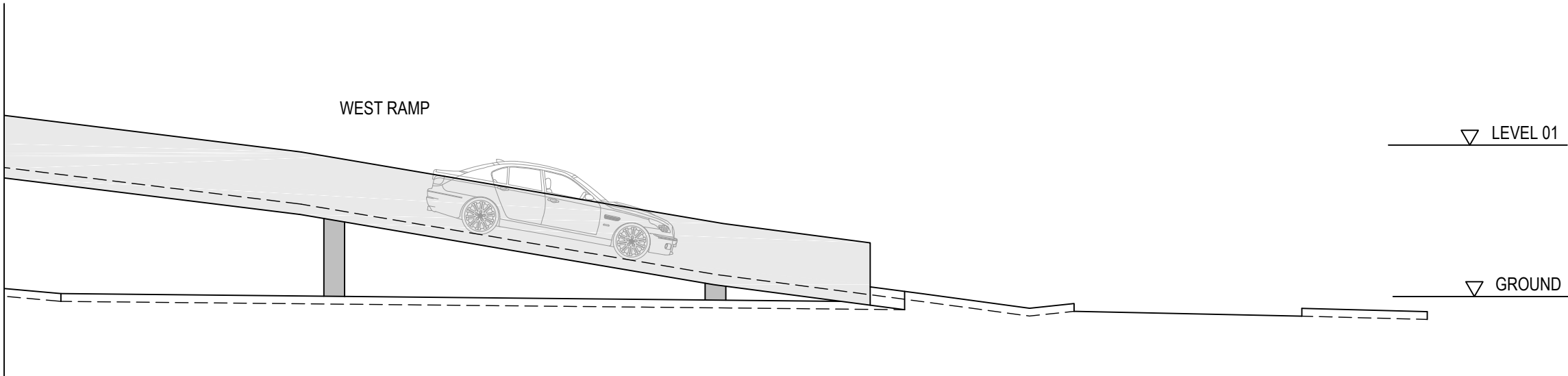
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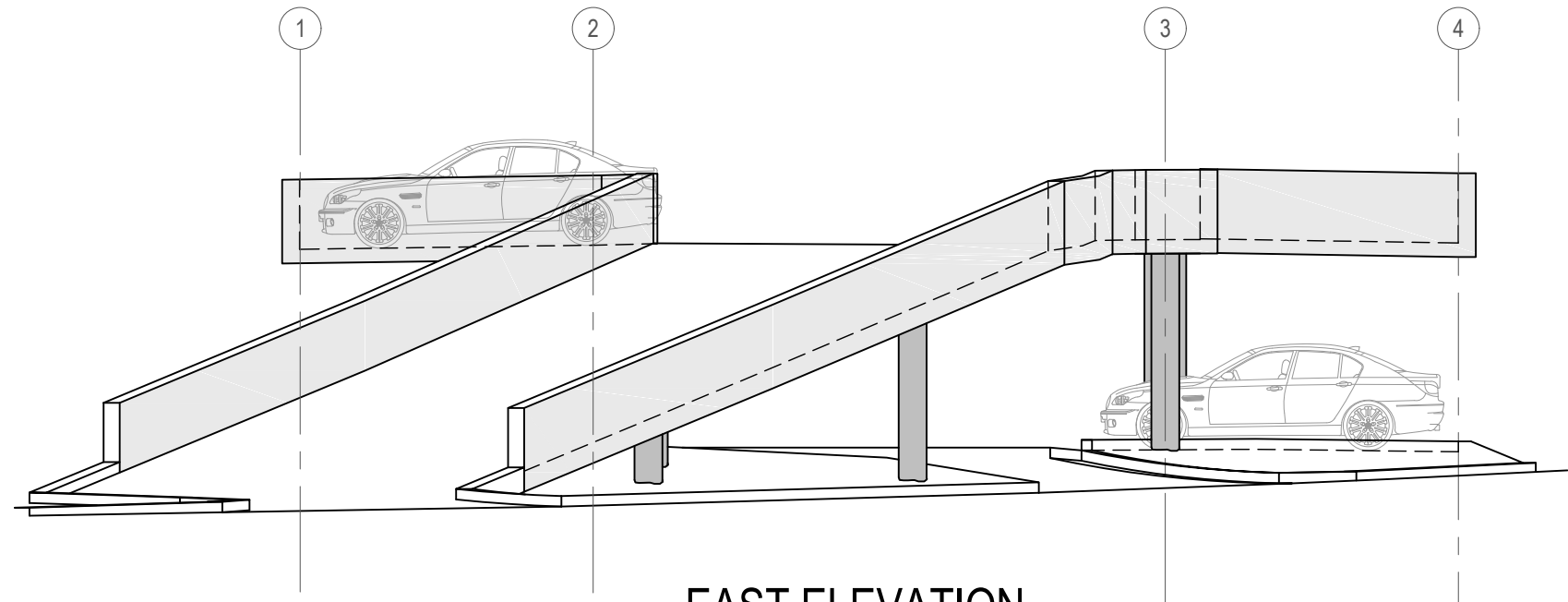
CARPARK FRONT ELEVATION
1:100



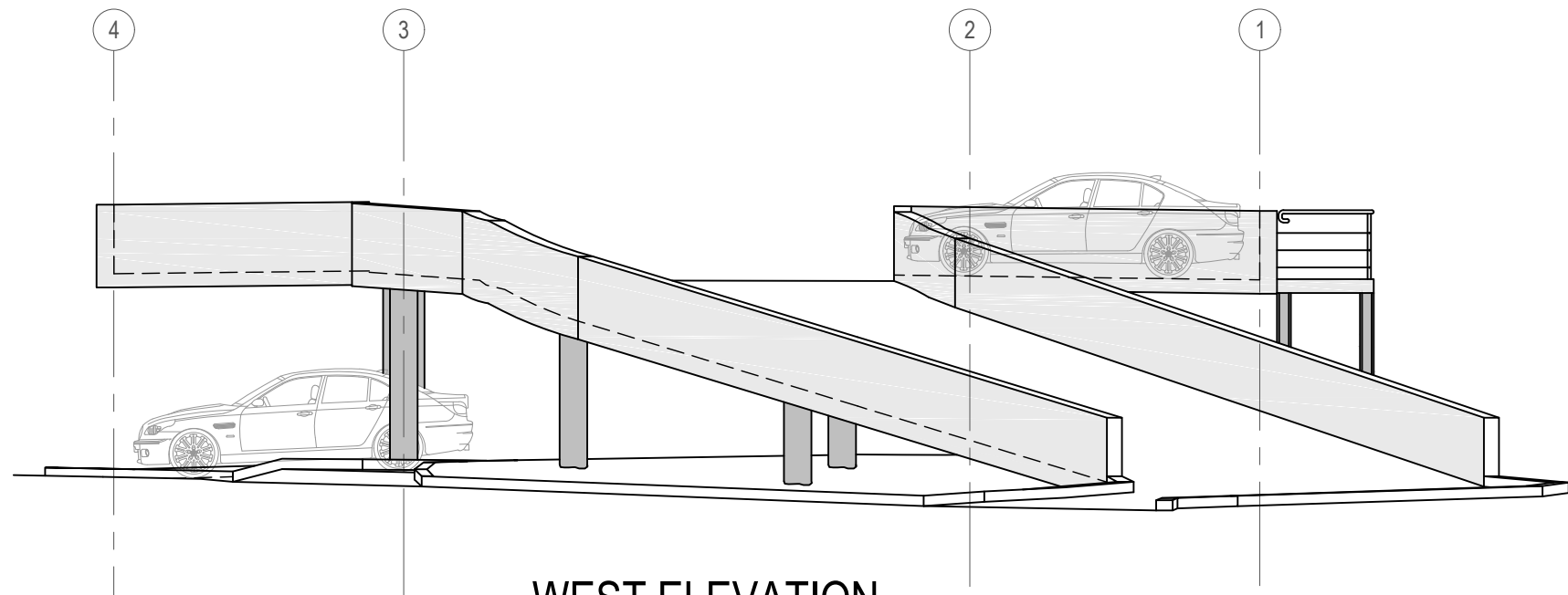
CARPARK FRONT ELEVATION CONTINUED
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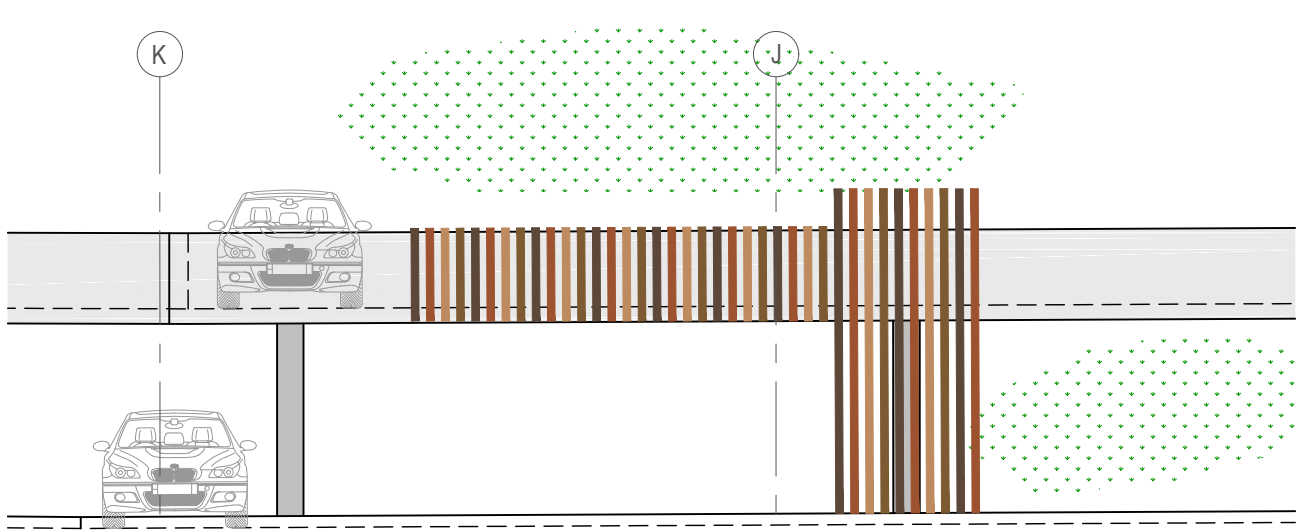
CARPARK FRONT ELEVATION CONTINUED
1:100



EAST ELEVATION
1:100



WEST ELEVATION
1:100



CARPARK FRONT ELEVATION FACADE DETAIL
1:100

02	ISSUE FOR DA APPROVAL	11.11.15
01	ISSUE FOR DA APPROVAL	09.11.15
Issue	Description	Date



Status DA APPROVAL NOT TO BE USED FOR CONSTRUCTION			
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Project	McCARRS CREEK ROAD REALIGNMENT AND CARPARK		
Title	CARPARK ELEVATIONS SHEET 1		

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Drawing No.	Project No.	Issue
C-00-302	AA006979	02



1:100



1:100



1:100



DATUM 0.000

CHAINAGES	DEPTH	EXISTING LEVELS		DESIGN LEVELS	
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5.661	0.000	2.328	2.328	2.328	2.328
6.695	0.000	2.356	2.356	2.356	2.356
7.707	0.000	2.385	2.385	2.385	2.385
8.782	0.000	2.413	2.413	2.413	2.413
9.857	0.000	2.441	2.441	2.441	2.441
10.000	0.000	2.446	2.446	2.446	2.446
10.869	0.000	2.470	2.470	2.470	2.470
11.944	0.000	2.499	2.499	2.499	2.499
12.960	0.000	2.526	2.526	2.526	2.526
20.000	0.000	3.497	3.497	3.497	3.497
21.442	0.000	3.711	3.711	3.711	3.711
29.315	0.000	5.010	5.010	5.010	5.010
30.000	0.000	5.115	5.115	5.115	5.115
30.315	0.000	5.164	5.164	5.164	5.164
31.476	0.000	5.342	5.342	5.342	5.342
32.523	0.000	5.443	5.443	5.443	5.443
33.523	0.000	5.469	5.469	5.469	5.469
35.298	0.000	5.567	5.567	5.567	5.567
40.000	0.000	5.669	5.669	5.669	5.669
40.182	0.000	5.672	5.672	5.672	5.672

CARPARK LVL 01-WEST RAMP LONGITUDINAL SECTION

HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:40



DATUM 0.000

[illegible]

CARPARK LVL 01-EAST RAMP LONGITUDINAL SECTION

HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:40

01	ISSUE FOR DA APPROVAL	11.11.15
Issue	Description	Date

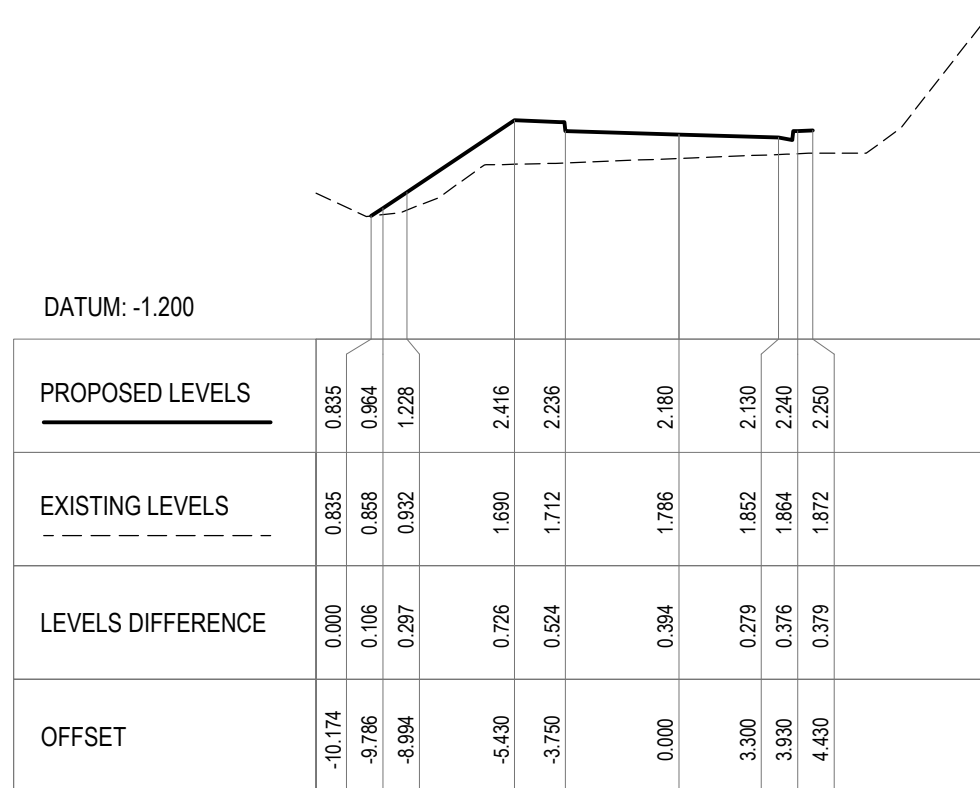


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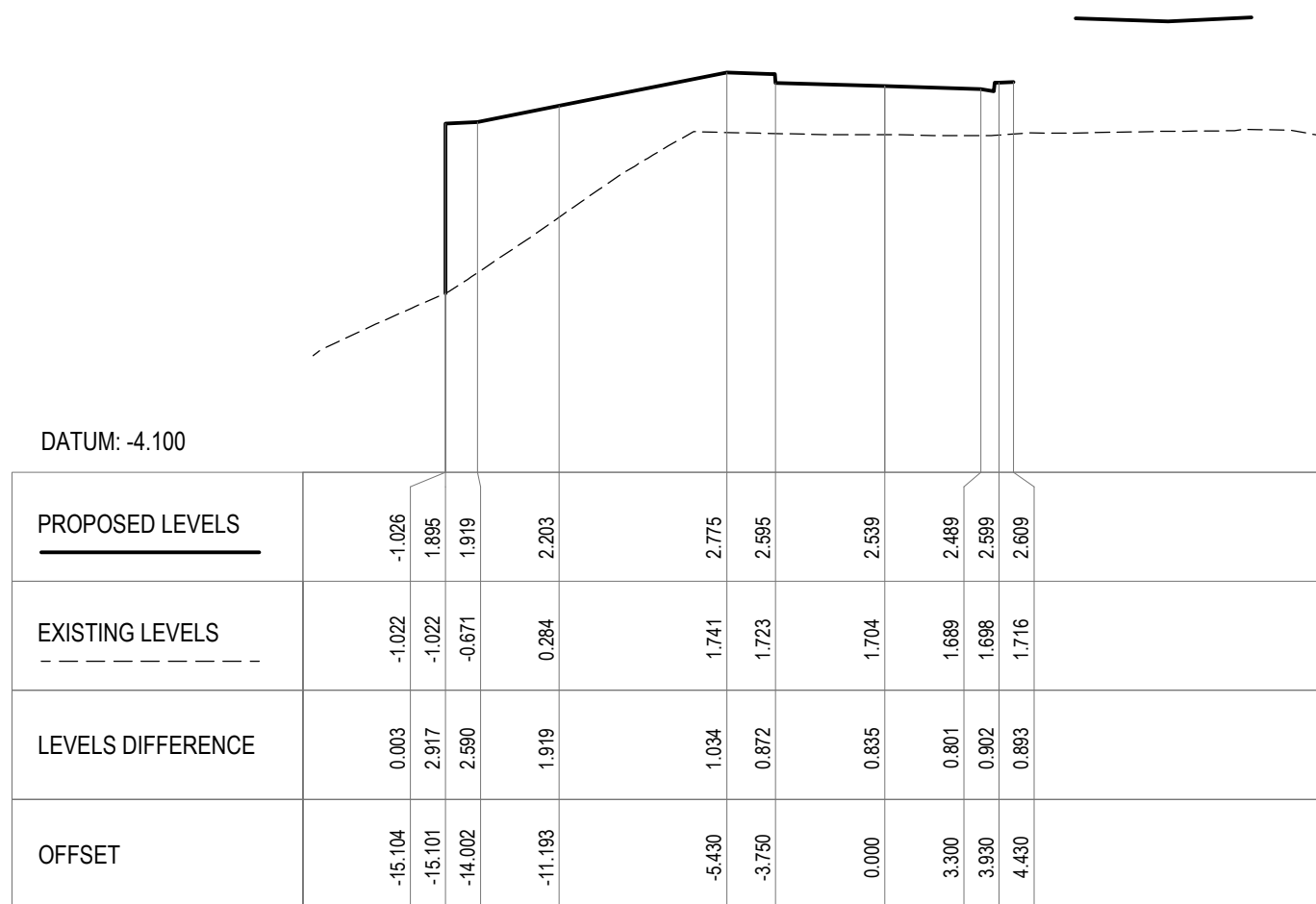
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Title	CARPARK ELEVATIONS SHEET 2



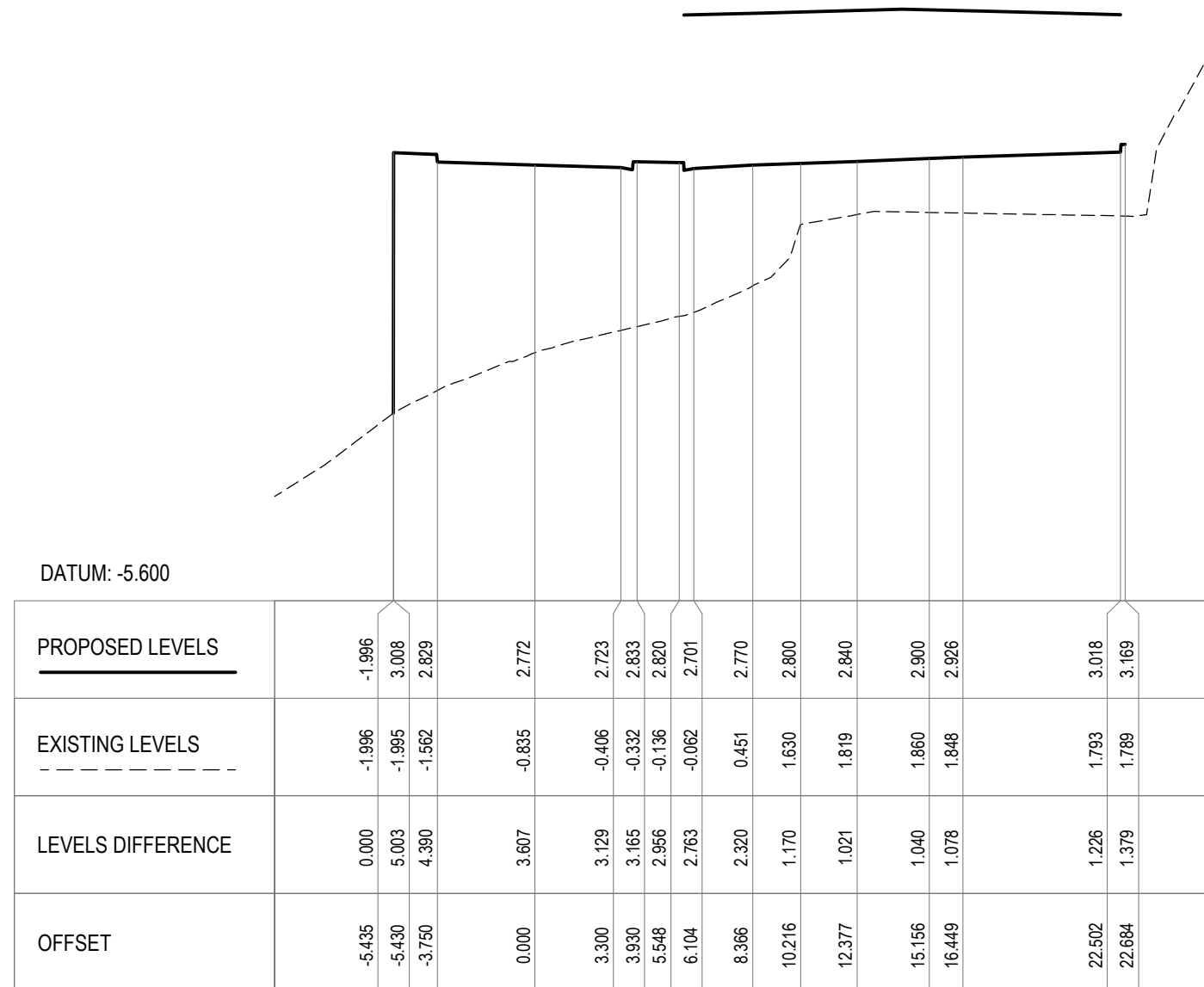
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C-00-303	AA006979	01



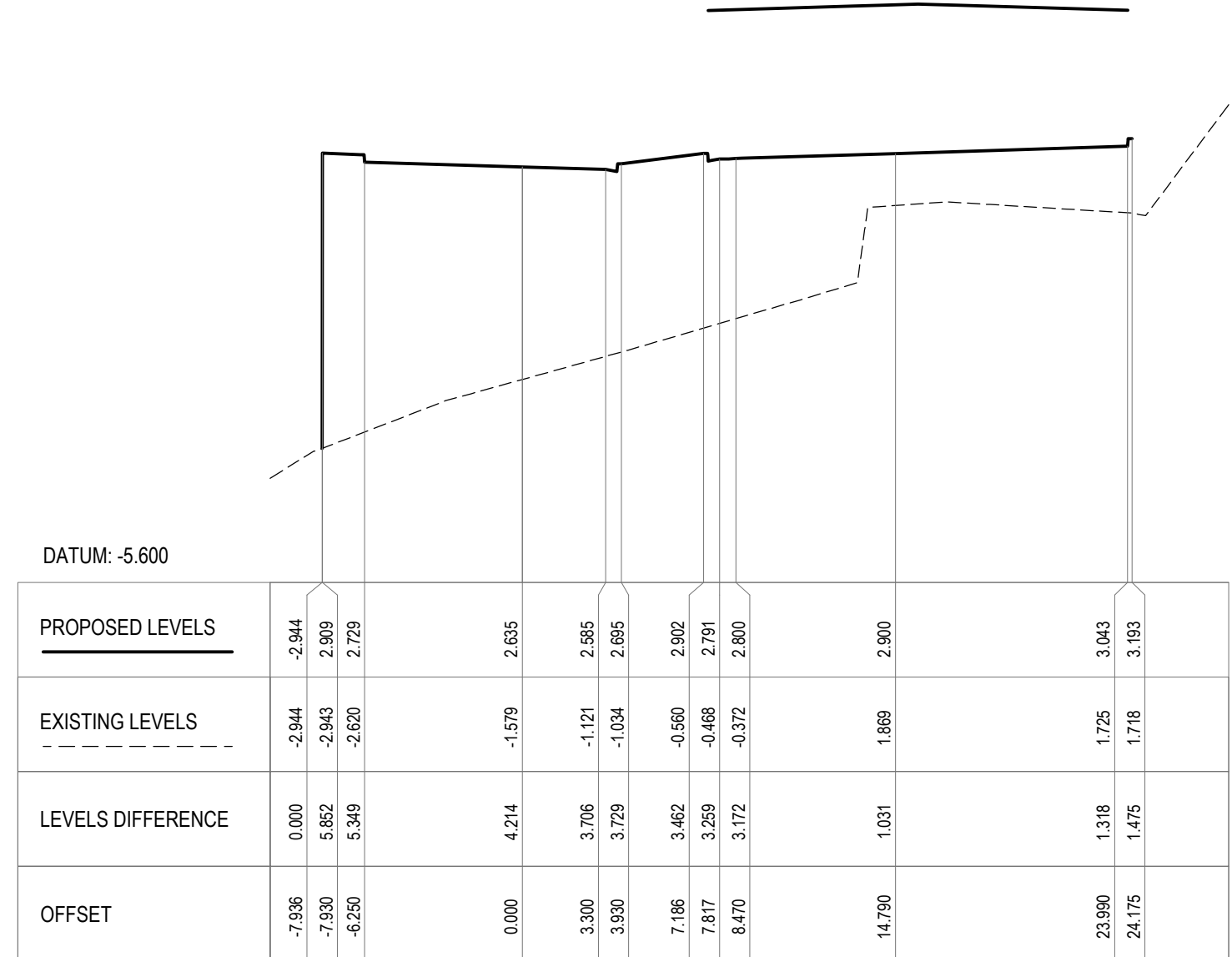
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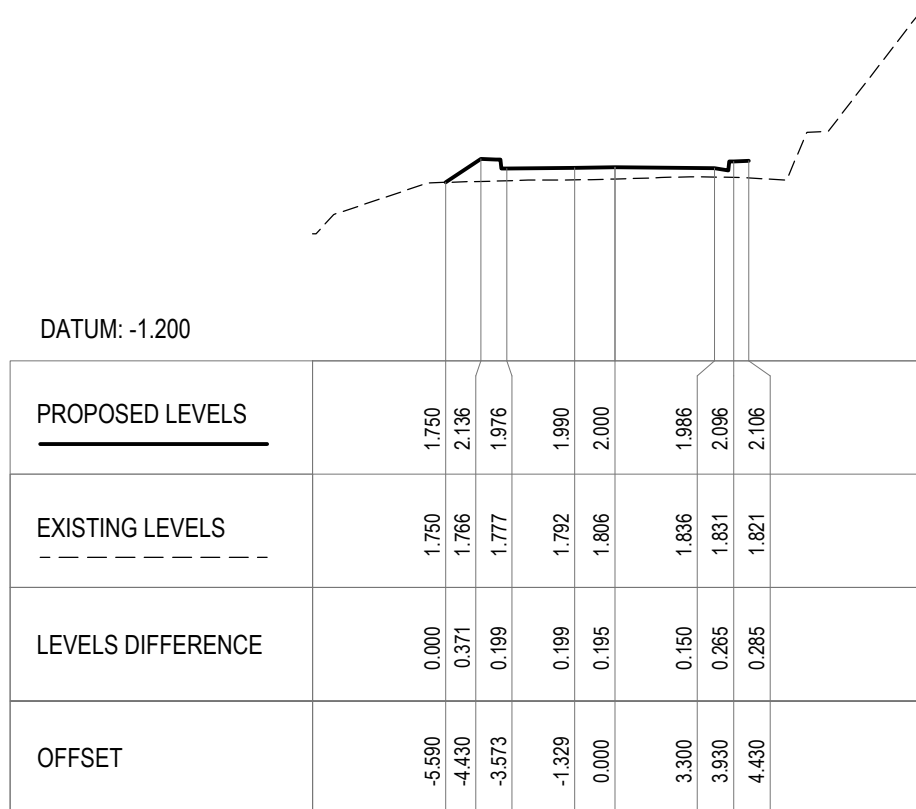
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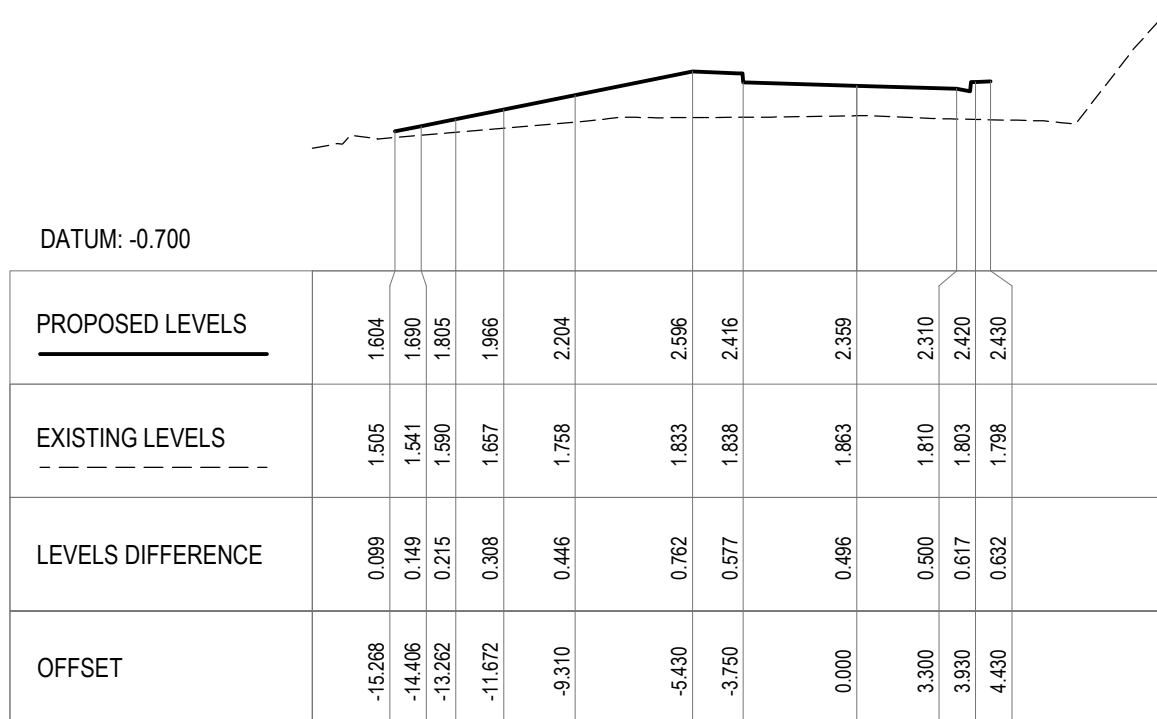
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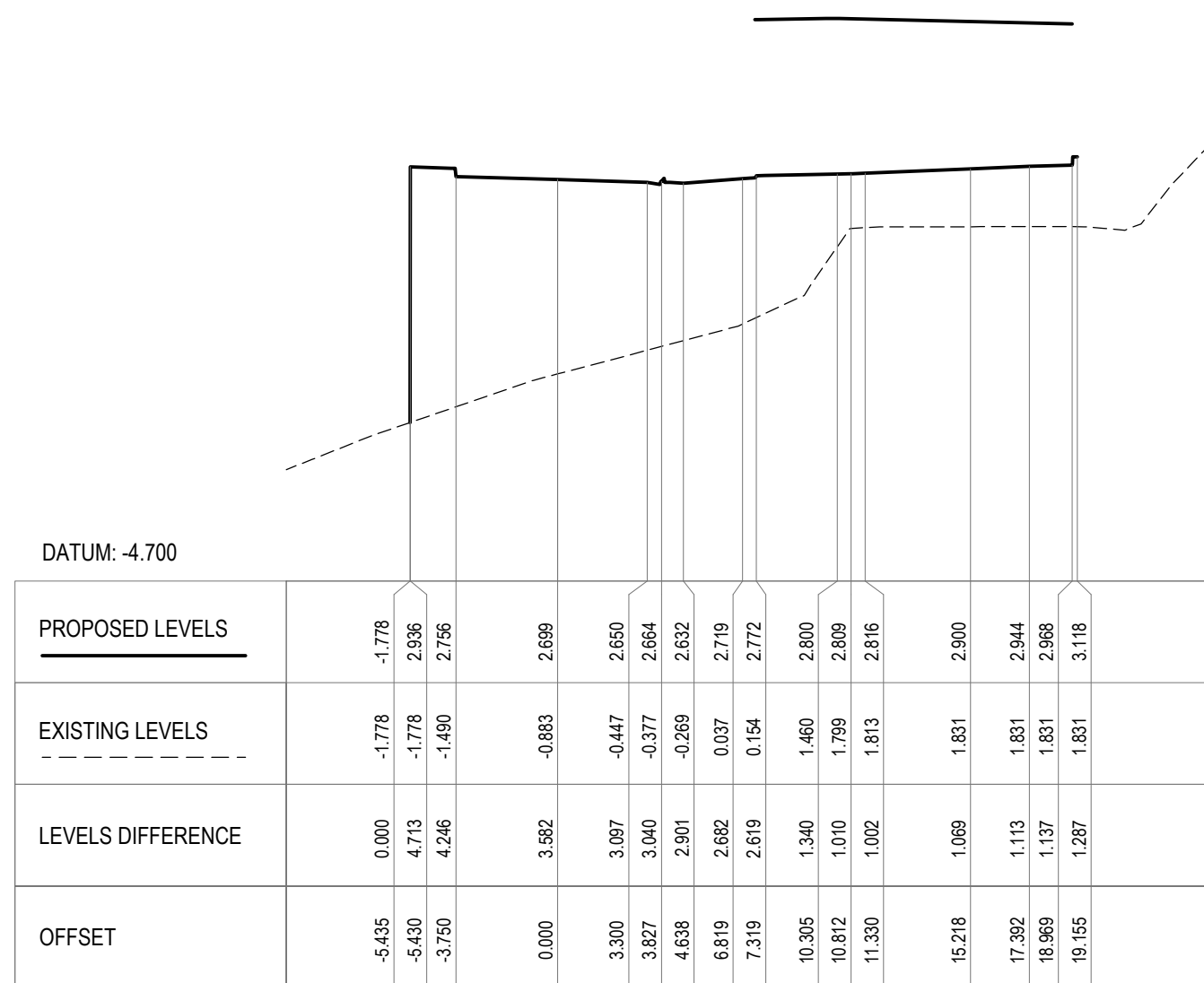
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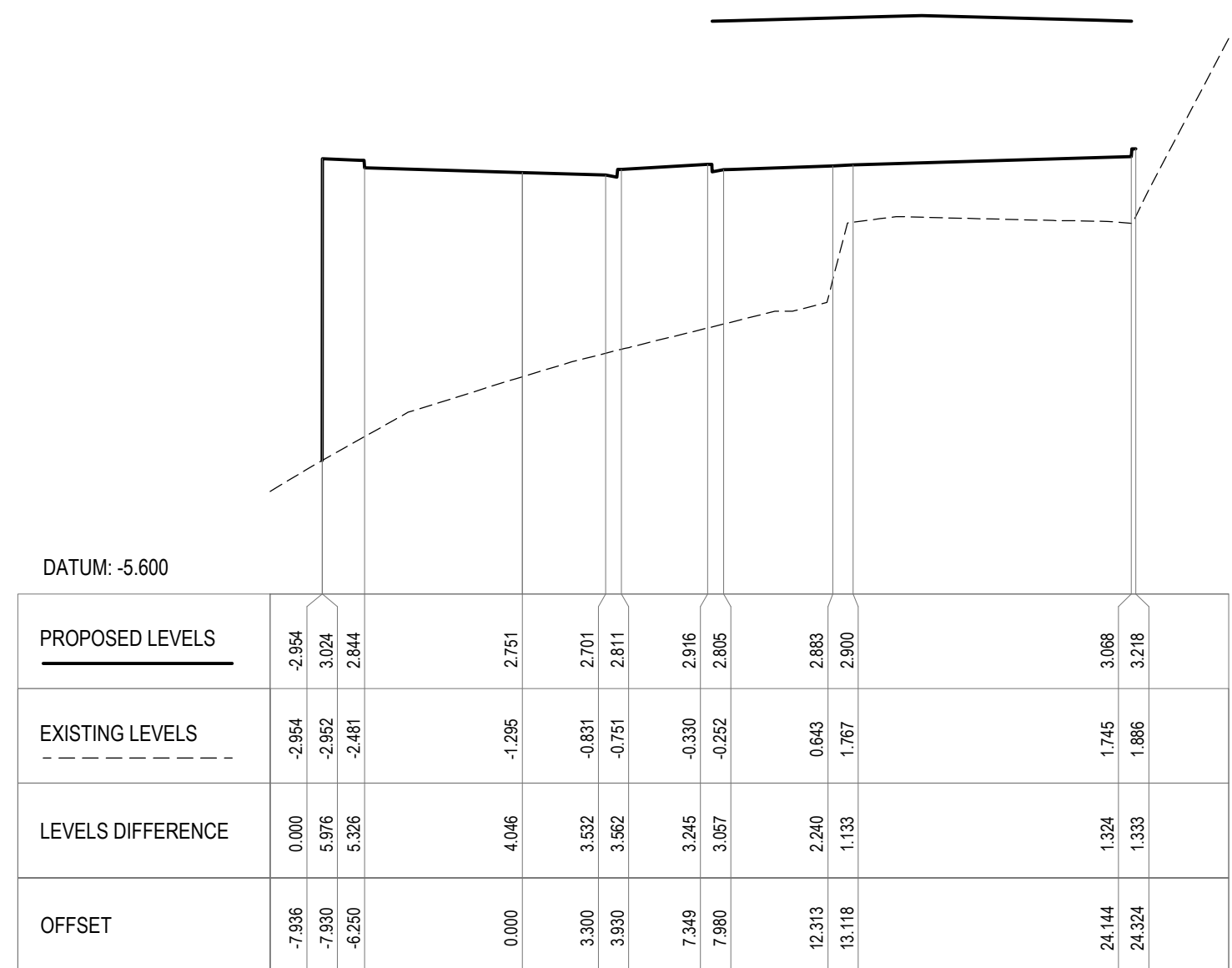
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CH 60.000



CH 100.000



CH 140.000

02	ISSUE FOR DA APPROVAL	11.11.15
01	ISSUE FOR DA APPROVAL	09.11.15
Issue	Description	Date



Client

Status	DA APPROVAL NOT TO BE USED FOR CONSTRUCTION
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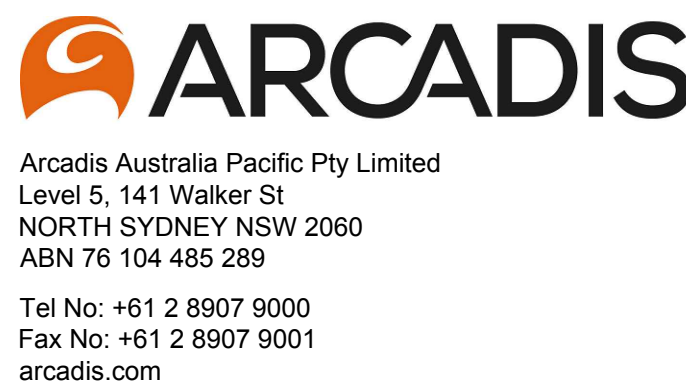
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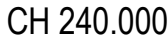
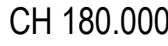
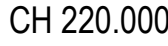
Project **McCARRS CREEK ROAD
REALIGNMENT AND CARPARK**

Title

CROSS SECTIONS
SHEET 1



Drawing No.	Project No.	Issue
C-00-311	AA006979	02



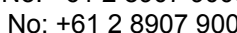
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Status

DA APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project **McCARRS CREEK ROAD REALIGNMENT AND CARPARK**



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