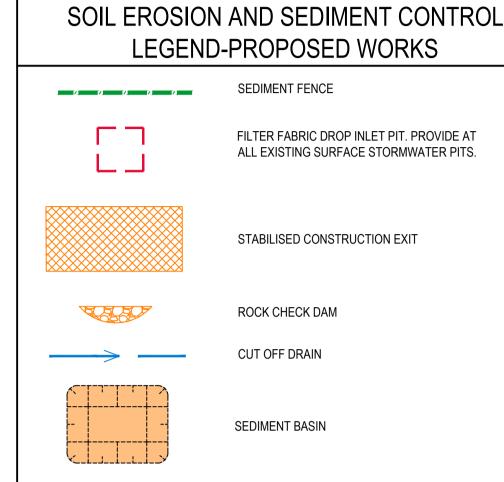
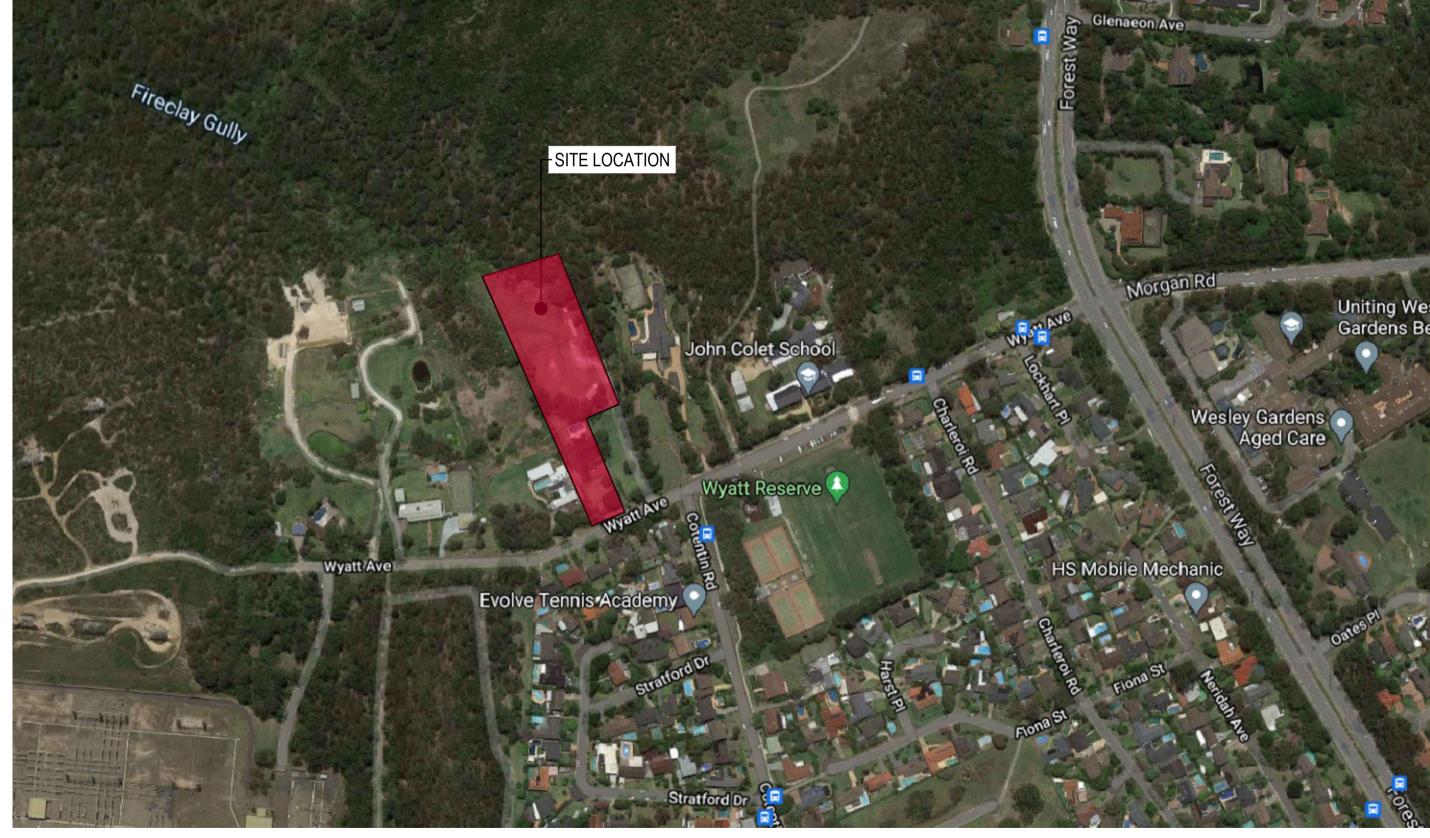
RESIDENTIAL BOARDING HOUSES DEVELOPMENT 16 WYATT AVENUE, BELROSE NSW 2085 **CIVIL ENGINEERING SERVICES**

EXISTING SERVICES LEGEND

EXISTING STORMWATER

EXISTING ELECTRICAL





LOCALITY PLAN NTS

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SEDIMENT FENCE

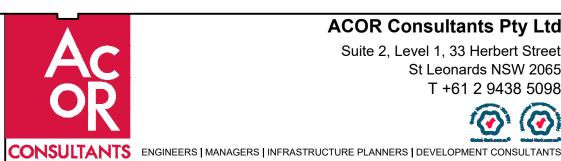
FILTER FABRIC DROP INLET PIT. PROVIDE AT ALL EXISTING SURFACE STORMWATER PITS.

STABILISED CONSTRUCTION EXIT

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ACOR Consultants Pty Ltd Suite 2, Level 1, 33 Herbert Street RESIDENTIAL BOARDING HOUSE St Leonards NSW 2065 T +61 2 9438 5098 (\bigcirc)



PROPOSED INVERT LEVEL IL 15.00 PROPOSED COVER / LID LEVEL CL 16.60 \square STORMWATER PIT MAJOR CONTOUR MINOR CONTOUR STORMWATER DRAINAGE LINE ROOFWATER DRAINAGE STORMWATER OSD BASIN GRATED DRAIN DOWNPIPE HEADWALL WITH SCOUR PROTECTION HEADWALL LEVEL SPREADER MACHBOARD ACCESSION USIL35.21 Ø225CLASS 2 PIPE SIZE BOX 5.0 % 9.25 m DSIL34.75 OVERLAND FLOW PATH BATTER WITH SLOPES 1(VERTICAL): 4(HORIZONTAL) 1-4 SWALE WITH SLOPES ___ ←__ ←___ WATER-SENSITIVE URBAN DESIGN (WSUD)

CIVIL LEGEND

DRAWING LIST								
DWG No.	DESCRIPTION							
C1.01	COVER SHEET, DRAWING LIST AND LEGENDS							
C1.02	NOTES SHEET							
C1.05	DETAILS SHEET 1							
C1.06	DETAILS SHEET 2							
C1.07	DETAILS SHEET 3							
C1.08	DETAILS SHEET 4							
C3.01	STORMWATER MANAGEMENT PLAN SHEET 1							
C3.02	STORMWATER MANAGEMENT PLAN SHEET 2							
C4.01	DRIVEWAY LONGITUDINAL SECTION							
C4.10	DRIVEWAY CROSS SECTIONS SHEET 1							
C4.11	DRIVEWAY CROSS SECTIONS SHEET 2							
C4.12	DRIVEWAY CROSS SECTIONS SHEET 3							
C5.01	SOIL EROSION AND SEDIMENT CONTROL PLAN							
C7.01	DRIVEWAY CROSS SECTIONS AND VERTICAL CLEARANCES							

DIAL BEFORE YOU DIG



IMPORTANT: THE CONTRACTOR IS TO MAINTAIN A CURRENT SET OF "DIAL BEFORE YOU DIG" DRAWINGS ON SITE AT ALL TIMES

NOT FOR CONSTRUCTION

Drawing Title COVER SHEET, DRAWING LIST AND LEGENDS

	N N	NSW210450				C
Designed	Project No.	Project No.				Issue
JH	07.05.21	N/A		G.L	0	9.06.21
Drawn	Date	Scale	A1	Q.A. Check		Date

GENERAL 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. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION
- DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
- ALL DIMENSIONS ON DETAILS ARE IN MILLIMETRES UNLESS STATED OTHERWISE, ALL PLANS AND LEVELS ARE EXPRESSED IN METRES.
- DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURAL STABILITY OF THE WORKS AND ENSURE NO PARTS BE OVER STRESSED UNDER CONSTRUCTION ACTIVITIES.
- 6. WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES INCLUDING ALL AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- 7. THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE ENGINEER BUT IS NOT AN AUTHORISATION FOR A VARIATION, ANY VARIATIONS INVOLVED MUST BE TAKEN UP WITH THE ARCHITECT OR PROJECT MANAGER BEFORE THE WORK COMMENCES.
- ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE ENGINEER FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
- 9. THE BUILDER SHALL GIVE 48 HOURS NOTICE FOR ALL ENGINEERING INSPECTIONS.
- 10. BUILDING FROM THESE DRAWINGS IS NOT TO COMMENCE UNTIL APPROVED BY THE LOCAL AUTHORITIES
- 11. THE WORD 'ENGINEER' USED IN THESE NOTES REFER TO AN EMPLOYEE OR NOMINATED REPRESENTATIVE OF ACOR CONSULTANTS PTY.LTD.

EXISTING SERVICES AND FEATURES

- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION, REMOVAL AND DISPOSAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA, AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
- 2. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN WRITTEN APPROVAL OF HIS PROGRAMME FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
- 4. EXISTING BUILDINGS, EXTERNAL STRUCTURES, AND TREES SHOWN ON THESE DRAWINGS ARE FEATURES EXISTING PRIOR TO ANY DEMOLITION WORKS.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
- INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL OF SUPERINTENDENT FOR TIME OF INTERRUPTION.

COMPACTION NOTES

- 1. STRIP TOPSOIL TO EXPOSE NATURALLY OCCURRING MATERIAL AND STOCKPILE ON SITE FOR SELECTIVE RE-USE OR DISPOSE OFF-SITE AS DIRECTED BY THE SUPERINTENDENT.
- 2. WHERE FILLING IS REQUIRED TO ACHIEVE DESIGN SUBGRADE PROOF ROLL EXPOSED NATURAL SURFACE WITH A MINIMUM OF TEN PASSES OF A VIBRATING ROLLER (MINIMUM STATIC WEIGHT OF 10 TONNES) IN THE PRESENCE OF THE SUPERINTENDENT. REFER TO SPECIFICATION FOR DETAILS.
- 3. ALL SOFT, WET OR UNSUITABLE MATERIAL TO BE REMOVED AS DIRECTED BY THE SUPERINTENDENT AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS LISTED BELOW.
- 4. ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING
- a. FREE FROM ORGANIC. PERISHABLE AND CONTAMINATED MATTER b. MAXIMUM PARTICLE SIZE 75MM
- c. PLASTICITY INDEX BETWEEN 2% AND 15%
- 5. ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 200mm THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE A DRY DENSITY DETERMINED IN ACCORDANCE WITH AS 1289.5.3.1 OF NOT LESS THAN THE FOLLOWING STANDARD MINIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289.5.1.1 :

LOCATION	STANDARD DRY DENSITY
UNDER BUILDING SLABS	98%
AREAS OF SERVICE TRENCHES	98%
EXTERNAL PAVED AREAS, ROADS AND CARI	PARKS 98%
LANDSCAPED AREAS	90%

- 6. THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLER MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED BY THE CONTRACTOR AT THEIR COST.
- TESTING OF THE SUBGRADE SHALL BE CARRIED OUT BY AN APPROVED NATA REGISTERED LABORATORY AT THE CONTRACTORS EXPENSE.

SITEWORKS NOTES

- 1. ORIGIN OF LEVELS :- AUSTRALIAN HEIGHT DATUM (A.H.D.)
- 2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
- 3. ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATIONS AND THE DIRECTIONS OF THE PRINCIPAL'S REPRESENTATIVE
- 4. EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE PRINCIPAL'S REPRESENTATIVE. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- 5. WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- 6. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A **REGISTERED SURVEYOR.**
- 7. CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER COMMUNICATIONS OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- 8. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH AN APPROVED NON-NATURAL GRANULAR MATERIAL AND COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS.1289.5.1.1.
- 9. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- 10. ON COMPLETION OF PIPE INSTALLATION ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS.
- 11. PROVIDE 12mm WIDE EXPANDING CORK JOINTS BETWEEN CONCRETE PAVEMENTS AND ALL BUILDINGS, WALLS, FOOTINGS, COLUMNS, KERBS, DISH DRAINS, GRATED DRAINS, BOLLARD FOOTINGS ETC
- 12. CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS.
- 13. ALL BATTERS TO BE GRASSED LINED WITH MINIMUM 100 TOPSOIL AND APPROVED COUCH LAID AS TURF.
- 14. MAKE SMOOTH TRANSITION TO EXISTING SERVICES AND MAKE GOOD.
- 15. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DIVERSION DRAINS AND MOUNDS TO ENSURE THAT AT ALL TIMES EXPOSED SURFACES ARE FREE DRAINING AND WHERE NECESSARY EXCAVATE SUMPS AND PROVIDE PUMPING EQUIPMENT TO DRAIN EXPOSED AREAS.
- 16. THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- 17. TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MIN 50mm IN BITUMINOUS PAVING.
- 18. ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN Ø80 uPVC SEWER GRADE CONDUITS EXTENDING A MIN OF 500mm PAST PAVING.
- 19. ON COMPLETION OF WORKS ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL INCLUDING, BUT NOT LIMITED TO, KERBS, FOOTPATHS, CONCRETE AREAS, GRASS AND LANDSCAPED AREAS.

STORMWATER NOTES

- 1. ALL 225 DIA. DRAINAGE PIPES AND LARGER SHALL BE CLASS "2" APPROVED SPIGOT AND SOCKET FRC OR RCP PIPES WITH RUBBER RING JOINTS. (U.N.O.) ALL DOWNPIPE DRAINAGE LINES SHALL BE SEWER GRADE uPVC WITH SOLVENT WELD JOINTS. (U.N.O.)
- 2. EQUIVALENT STRENGTH REINFORCED CONCRETE PIPES MAY BE USED.
- 3. ALL PIPE JUNCTIONS UP TO AND INCLUDING 450 DIA. AND TAPERS SHALL BE VIA PURPOSE MADE FITTINGS.
- 4. MINIMUM GRADE TO STORMWATER LINES TO BE 1%. (U.N.O.)
- 5. CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
- 6. ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
- 7. PRECAST PITS SHALL NOT BE USED UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE SUPERINTENDENT.
- 8. WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50MM CONCRETE BED (OR 75MM THICK BED OF 12MM BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK. IN OTHER THAN ROCK, PIPES SHALL BE LAID ON A 75MM THICK SAND BED. IN ALL CASES BACKFILL THE TRENCH WITH SAND TO 200MM ABOVE THE PIPE. WHERE THE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH WITH SAND OR APPROVED GRANULAR BACKFILL COMPACTED IN 150MM LAYERS TO 98% STANDARD MAX. DRY DENSITY.
- 9. BEDDING SHALL BE (U.N.O.) TYPE H1, IN ACCORDANCE WITH CURRENT RELEVANT AUSTRALIAN STANDARDS
- 10. WHERE STORMWATER LINES PASS UNDER FLOOR SLABS SEWER GRADE RUBBER RING JOINTS ARE TO BE USED.
- 11. WHERE SUBSOIL DRAINAGE LINES PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED UPVC SEWER GRADE PIPE SHALL BE USED.
- 12. PROVIDE 3.0M LENGTH OF 100 DIA. SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK, AT UPSTREAM END OF EACH PIT.

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А	ISSUE FOR CLIENT REVIEW	07.05.21	JH	GL		
Issue	Description	Date	Drawn	Approved		
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ON-SITE DETENTION NOTES

- 1. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS, SERVICES AND STRUCTURES ON SITE PRIOR TO COMMENCEMENT OF WORK.
- 2. ALL WORK SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND THE SPECIFICATION.
- 3. ON COMPLETION OF PROPOSED WORKS ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL, GRASSED & LANDSCAPE AREAS AND ROAD PAVEMENTS. (U.N.O.)
- 4. CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS.
- 5. MAKE SMOOTH TRANSITION TO EXISTING SERVICES AND MAKE GOOD.
- 6. WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- 7. CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER THESE SERVICES. HAND EXCAVATE IN THESE AREAS
- 8. THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL, HYDRAULIC, AND OTHER SERVICES DRAWINGS AND SPECIFICATIONS.
- 9. ALL 300 DIA. DRAINAGE PIPES AND LARGER SHALL BE CLASS "2" APPROVED SPIGOT AND SOCKET RCP PIPES WITH RUBBER RING JOINTS. (U.N.O.) ALL DRAINAGE PIPES UP TO AND INCLUDING 225 DIA SHALL BE SEWER GRADE UPVC WITH SOLVENT WELD JOINTS. (U.N.O.)
- 10. EQUIVALENT STRENGTH FRC PIPES MAY BE USED.
- 11. ALL PIPE JUNCTIONS, BENDS AND TAPERS UP TO AND INCLUDING 450 DIA SHALL BE VIA PURPOSE MADE FITTINGS.
- 12. MINIMUM GRADE TO STORMWATER LINES TO BE 1%. (U.N.O.)
- 13. CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
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- 16. BEDDING SHALL BE (U.N.O.) TYPE H1, IN ACCORDANCE WITH CURRENT RELEVANT AUSTRALIAN STANDARDS.
- 17. WHERE STORMWATER LINES PASS UNDER FLOOR SLABS SEWER GRADE RUBBER RING JOINTS ARE TO BE USED.
- 18. PROVIDE 3.0M LENGTH OF 100 DIA. SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK, AT UPSTREAM END OF EACH PIT

CHES ESSENTIAL **MMODATION**

plattorr ARCHITECTS

CONCRETE NOTES

GENERAL

- 1. ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH AS 3600 CURRENT EDITIONS WITH AMENDMENTS, AND THE ACSE CONCRETE SPECIFICATION EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- 2. VERIFY ALL SETTING OUT DIMENSIONS WITH THE ARCHITECT AND/OR THE SURVEYOR.
- DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS
- IN CASE OF DOUBT ASK.

CONCRETE

1. PLACE CONCRETE OF THE FOLLOWING CHARACTERISTIC COMPRESSIVE STRENGTH F"C AS DEFINED IN AS.3600 OR M.R. FORM 609. ADD WATER REDUCING ADMIXTURE EQUAL TO WRDA.

LOCATION	AS.3600 F'c MPa AT 28 DAYS	SPECIFIED SLUMP	Nomin Agg. S
ALL KERB PITS ETC.	25	80	20
VEHICULAR PAVEMENTS	32	80	20

- USE "A.C.S.E. SPECIFICATION TYPE A" CEMENT.
- 3. ALL CONCRETE SHALL BE SUBJECT TO PROJECT CONTROL SAMPLE AND TESTING TO AS.3600.
- 4. CONSOLIDATE BY VIBRATION.

REINFORCEMENT

- FIX REINFORCEMENT AS SHOWN ON DRAWINGS. THE TYPE AND GRADE IS INDICATED BY A SYMBOL AS SHOWN BELOW. ON THE DRAWING N IS FOLLOWED BY A NUMERAL WHICH INDICATES THE SIZE IN MILLIMETRES. A MARK NUMERAL (IF USED) FOLLOWS THIS NUMERAL N. HOT ROLLED DEFORMED BARS, GRADE 500N
- R. HOT ROLLED PLAIN BARS, GRADE 250N W. COLD DRAWN PLAIN ROUND WIRE, GRADE 500L
- SL. SQUARE WELDED MESH, GRADE 500L
- RL. RECTANGULAR WELDED MESH, GRADE 5001 LTM. RECTANGULAR WELDED TRENCH MESH, GRADE 500L

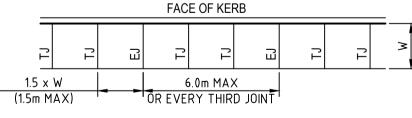
CURING

- CURING OF ALL CONCRETE SHALL BE IN ACCORDANCE WITH AS3600 AND SHALL COMMENCE WITHIN 2 HOURS OF FINISHING OPERATIONS.
- CURING SHALL BE CONTINUAL SATURATION WITH POTABLE WATER FOR 3 DAYS FOLLOWED BY PREVENTION OF MOISTURE LOSS FOR THE NEXT 4 DAYS, USING POLYTHENE SHEETING OR WET HESSIAN PROTECTED BY WIND OR TRAFFIC AND THEN ALLOWING GRADUAL DRYING OUT.
- CURING COMPOUNDS MAY BE USED PROVIDED THAT THEY COMPLY WITH AS3799 AND NOT AFFECT THE PROPOSED FINISH.
- 4. THE COMPATIBILITY OF CURING COMPOUNDS WITH THE PROPOSED FINISH AND OTHER CONCRETE ADMIXTURES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING AND APPLICATION.
- CURING COMPOUNDS ARE APPLIED UNIFORMLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. PVA - BASED CURING COMPOUNDS ARE NOT ACCEPTABLE.
- 6. CURING SHALL BE UNDERTAKEN BY AN EXPERIENCED CONTRACTOR FAMILIAR WITH THE PROPOSED COMPOUNDS AND THE MANUFACTURER'S SPECIFICATIONS.
- WHERE SHADE TEMPERATURES EXCEEDS 35°C, SPRAY THE EXPOSED SURFACE OF THE CONCRETE PAVEMENT / SLAB DURING THE PLACING OF FINISHING OPERATION WITH A FINE FILM OR APPROVED ALIPHATIC ALCOHOL, REPEAT THE SPRAY IF THE SPRAY SURFACE HAS BEEN RE-WORKED.
- 8. ENSURE ADEQUATE SUPPLY OF ALIPHATIC ALCOHOL ON-SITE PRIOR TO CONCRETE WORKS.

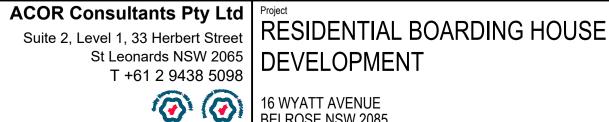
JOINTING NOTES

PEDESTRIAN FOOTPATH JOINTING

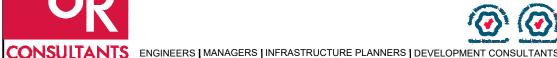
- 1. DOWELED JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 6.0m CENTRES.
- 2. TOOLED JOINTS ARE TO BE LOCATED AT A MAX 1.5 x WIDTH OF THE PAVEMENT.
- WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND/OR ADJACENT PAVEMENT JOINTS.
- 4. ALL PEDESTRIAN FOOTPATH JOINTING LAYOUTS AS FOLLOWS (UNO)



5. ALL RAMPED CROSSINGS SHALL BE DOWELED INTO ADJOINING PATH PAVEMENT



16 WYATT AVENUE BELROSE NSW 2085



PHONE : (02) 9976 666

SUITE 503, 39 EAST ESPLANADE MANLY NSW 2095

INAL . SIZE

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

- E1. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS, AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED AND RELATING TO DEVELOPMENT AT THE SUBJECT SITE.
- E2. THE SITE SUPERINTENDENT WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS INSTRUCTED IN THIS SPECIFICATION.
- E3. ALL BUILDERS AND SUB-CONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.

CONSTRUCTION SEQUENCE

- E4. THE SOIL EROSION POTENTIAL ON THIS SITE SHALL BE MINIMISED. HENCE WORKS SHALL BE UNDERTAKEN IN THE FOLLOWING SEQUENCE :
- a. INSTALL SEDIMENT FENCES, TEMPORARY CONSTRUCTION EXIT AND SANDBAG KERB INLET SEDIMENT TRAP. b. UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH
- THE ENGINEERING PLANS. PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

- E5. DURING WINDY CONDITIONS, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL
- E6. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

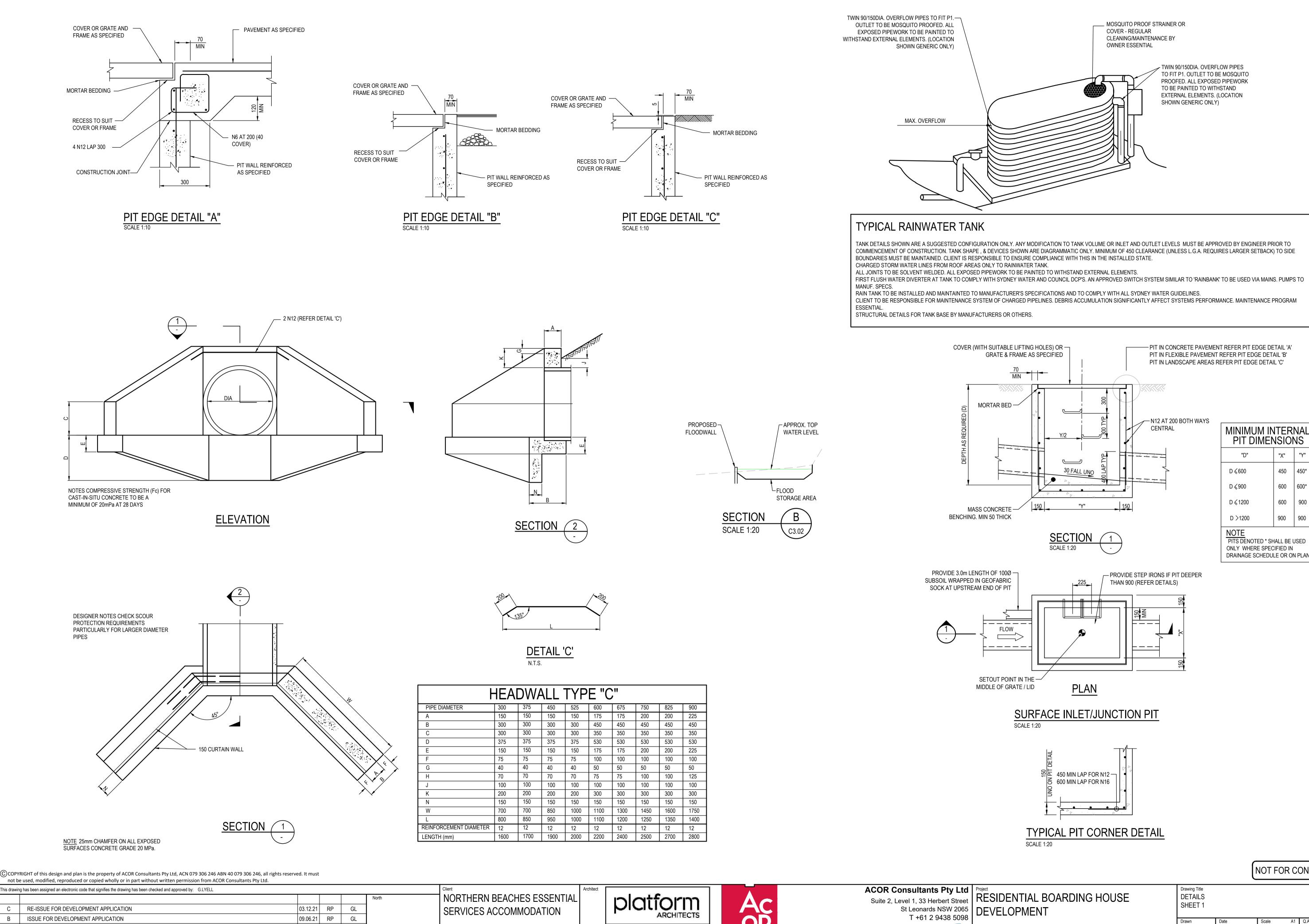
FENCING

- E7. 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.
- E8. 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.
- E9. 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.
- E10. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

- E11. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER
- E12. RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER ARE TO BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT.
- SITE INSPECTION & MAINTENANC
- E13. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AFTER RAINFALL EVENTS TO ENSURE THAT THEY OPERATE EFFECTIVELY. REPAIR AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED.

Drawing Title								
NOTES SHEET								
					L			
Drawn	Date	Scale	A1	Q.A. Check	Date			
JH	07.05.21	N/A		G.L	09.06.21			
Designed	Project No.			Dwg. No.	Issue			
GL	∣ NSV	N21045	C1.02	C				



RE-ISSUE FOR DEVELOPMENT APPLICATION 09.06.21 RP ISSUE FOR DEVELOPMENT APPLICATION 07.05.21 JH ISSUE FOR CLIENT REVIEW А Date Drawn Approved Issue Description

В

SERVICES ACCOMMODATION

GL

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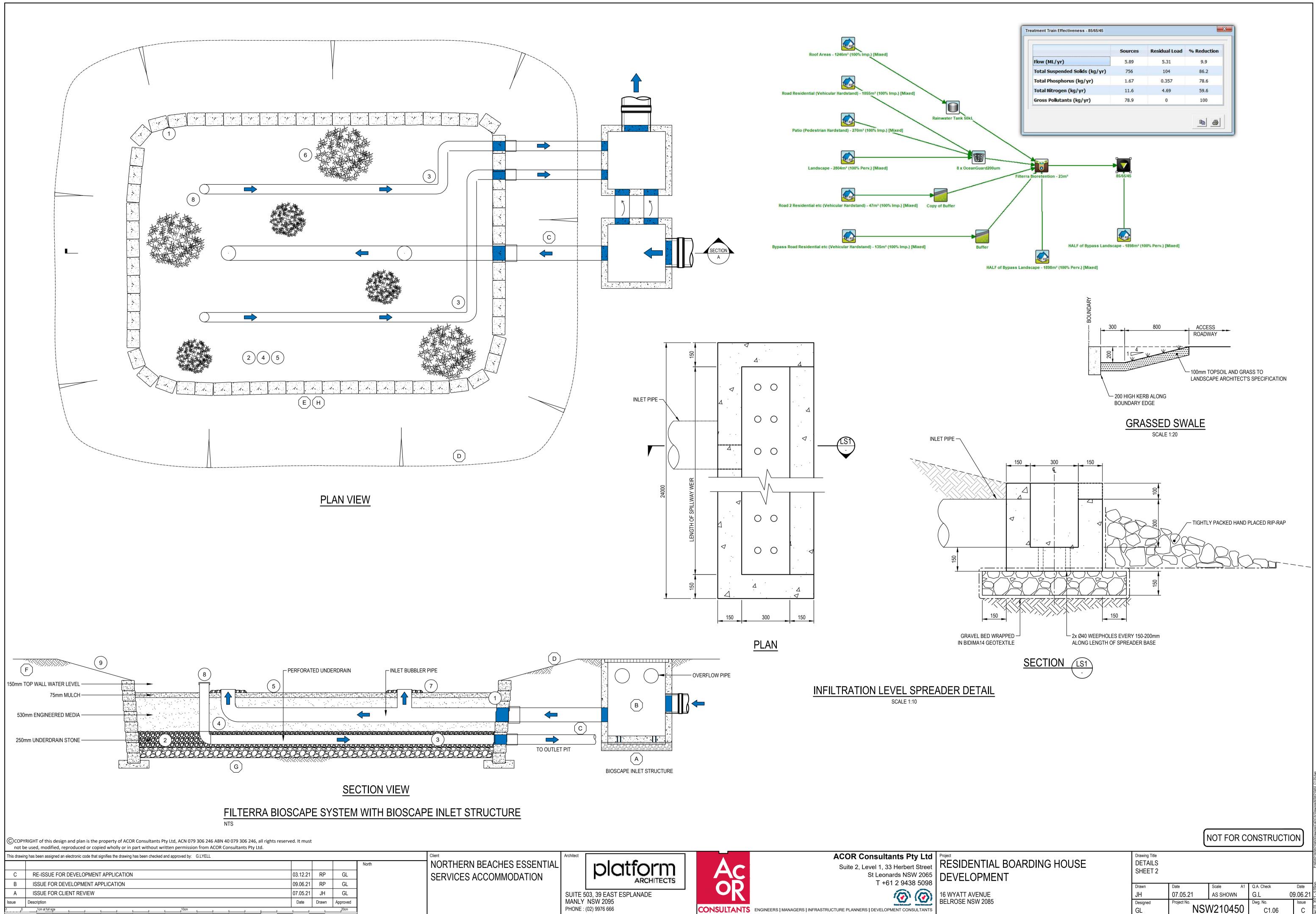


16 WYATT AVENUE BELROSE NSW 2085

MINIMUM IN PIT DIMEN	••••••	
"D"	"X"	"Y"
D ≼600	450	450*
D ≼900	600	600*
D ≼1200	600	900
D >1200	900	900
NOTE		

DRAINAGE SCHEDULE OR ON PLAN.

GL	ÍNSV	V210450	C1.05	С	Jec 03,
Designed	Project No.		Dwg. No.		20
JH	07.05.21	AS SHOWN	G.L	09.06.21	21 - 5:
Drawn	Date	Scale A1	Q.A. Check	Date	5:08pm
Drawing Title DETAILS SHEET 1					P:\NSW21\NSW



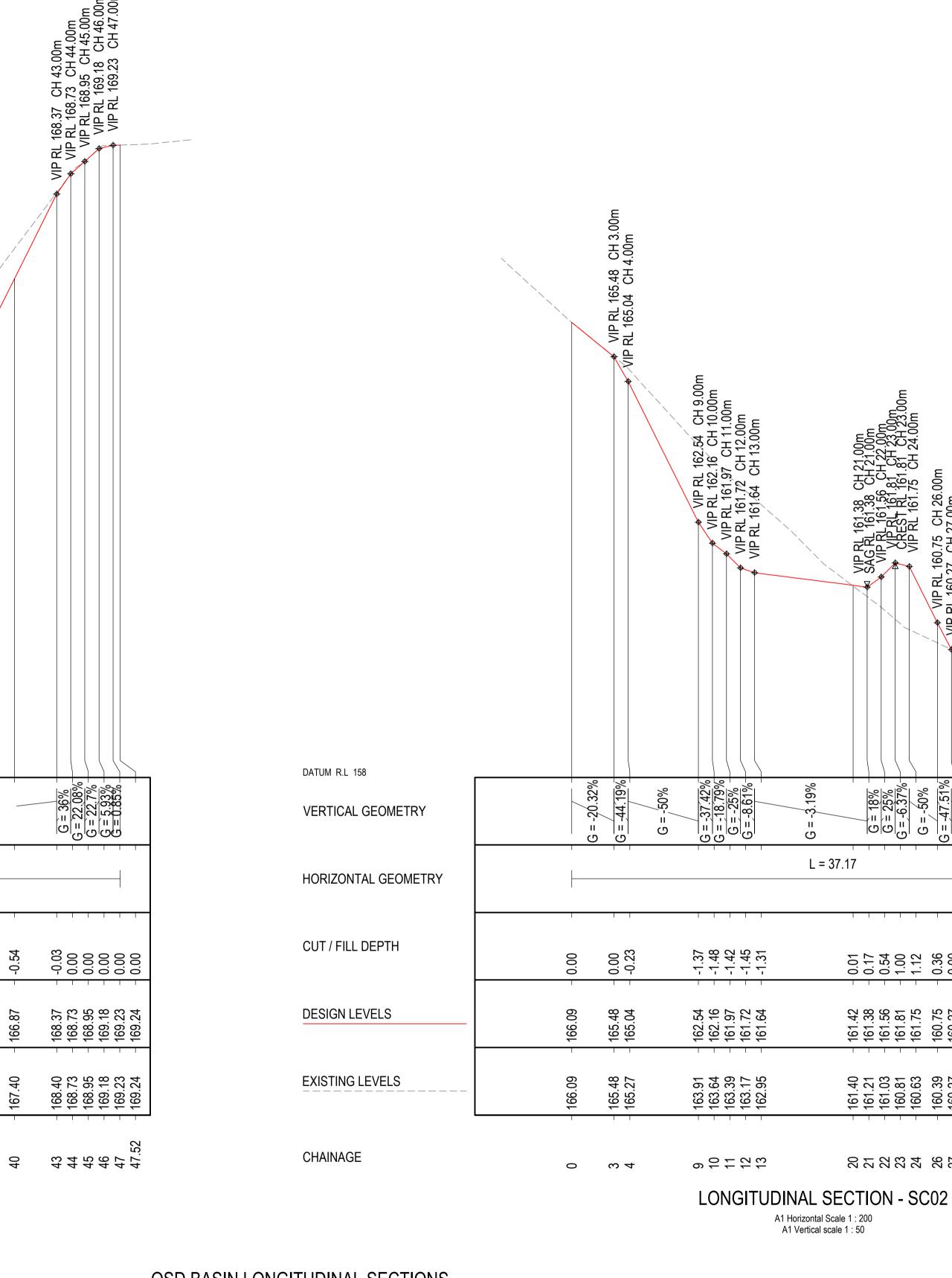
		VIP RL 159.89 CH 2.00m VIP RL 159.87 CH 3.00m SAG RL 159.87 CH 3.00m VIP RL 160.33 CH 4.00m	VIP RL 161.33 CH 6.00m VIP RL 161.75 CH 7.00m CREST RL 161.75 CH 7.00m VIP RL 161.59 CH 8.00m VIP RL 161.34 CH 9.00m VIP RL 161.27 CH 10.00m SAG RL 161.27 CH 10.00m	VIP RL 161.38 CH 14.00m VIP RL 161.41 CH 15.00m		VIP RL 161.68 CH 24.00m VIP RL 161.70 CH 25.00m	VIP RL 161.78 CH 28.00m VIP RL 161.96 CH 29.00m VIP RL 162.21 CH 30.00m VIP RL 162.37 CH 31.00m
DATUM R.L 158		7%		% 1%		<u>68%</u> 63%	
VERTICAL GEOMETRY		G = -40.87% $G = -1.83%$ $G = 45.48%$	G = 30% G = 42.45% G = -16.28% G = -6.95%	G = 2.7% G = 2.96%	G = 3%	G = 2.68% G = 2.63%	G = 50%
HORIZONTAL GEOMETRY					I	_ = 47.52	
		1 1 1		1 1	1	1 1	
CUT / FILL DEPTH		0.00 0.00 0.33	1.03 1.30 1.01 0.65 0.47	0.13 -0.02	-0.79	-1.34 -1.46	-1.82 -1.80 -1.69 -1.77
DESIGN LEVELS		159.89 159.87 160.33	1.33 1.75 1.59 1.34 1.27	161.38 161.41 -	161.56	161.68 161.70	161.78 161.96 162.21 162.37
			- 161. - 161. - 161. - 161. - 161.			- 16	91 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EXISTING LEVELS	160 71	159.89 159.87 160.00	160.30 160.45 160.58 160.58 160.69 160.80	- 161.25 - 161.43	162.34	- 163.01 - 163.16	163.60 163.75 163.90 164.14
CHAINAGE	c	0 0 m 4	6 8 10	14 15	20	24 25	28 30 31
				LONC	A1 Horizor	L SECTIC ntal Scale 1 : 200 cal scale 1 : 50	DN - SC01
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bt be used, modified, reproduced or copied wholly or in part awing has been assigned an electronic code that signifies the drawing has b	without written permission	from ACOR Consu		1	,		
					North		NORTHERN BEACHES

C COPY not b This drawir North RE-ISSUE FOR DEVELOPMENT APPLICATION С 03.12.21 RP GL 09.06.21 RP В ISSUE FOR DEVELOPMENT APPLICATION GL 07.05.21 JH ISSUE FOR CLIENT REVIEW А GL Issue Description Date Drawn Approved 0 1cm at full size 20cm size 10cm

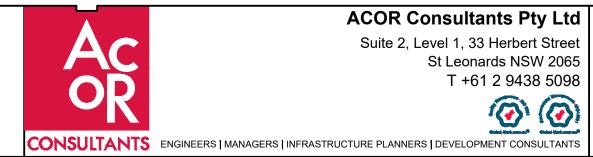
NORTHERN BEACHES ESSENTIAL SERVICES ACCOMMODATION

87 166.

167.40



OSD BASIN LONGITUDINAL SECTIONS



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Project
RESIDENTIAL BOARDING HOUSE
DEVELOPMENT



16 WYATT AVENUE BELROSE NSW 2085

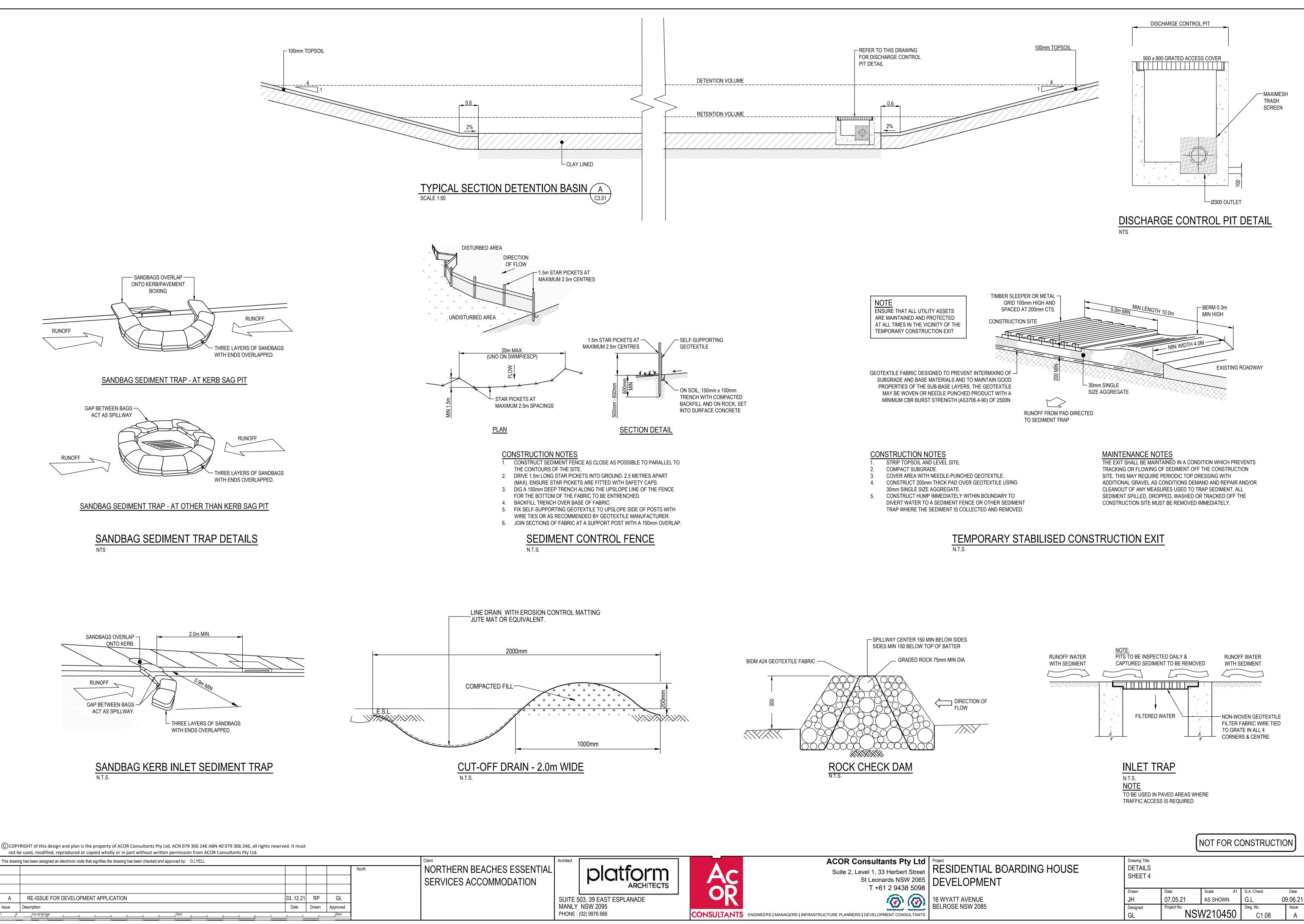
SUITE 503, 39 EAST ESPLANADE MANLY NSW 2095 PHONE : (02) 9976 666

Architect

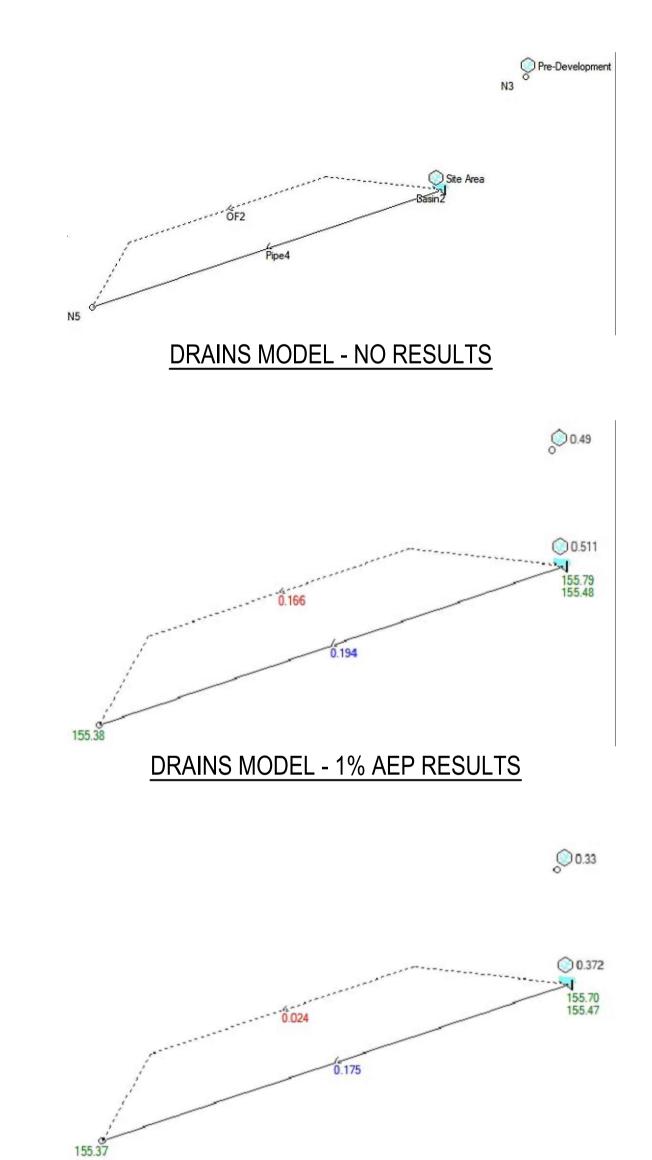
					P:\NSW21\NSW210
Drawing Title					V21/NS
DETAILS					NSN:
SHEET 3					
					_
Drawn	Date	Scale A1	Q.A. Check	Date	5:09pm
JH	07.05.21	AS SHOWN	G.L 0	9.06.21	<u>.</u> '
Designed	Project No.		Dwg. No.	Issue	3, 202
GL	NSV	V210450	C1.07	С	Dec 03,

NOT FOR CONSTRUCTION	

G = 18% CH 21.00m G = 25% VIP RL 161.56 CH 22.00m G = 25% VID RL 161.56 CH 22.00m	, /		G = -47.51% CH 26.00m	Ø	G = -11.91%	$G = \frac{1}{2} \frac{1}{10} \frac{1}{10} \frac{1}{10}$ VIP RL 159.92 CH 30.00m	*				
1 1	1	1	1	1		1	1	1	 		
- 0.17 - 0.54	1.00	1.12	0.36	0.00		0.00	0.00	0.00			
- 101.38 - 161.56	161.	- 161.	160.	160.		- 159.92	- 159.	- 159.			
- 161.21 - 161.03						159.92	159.78	159.63			
21						30 -	31	32		71 70	
ION	_ ;	SC	02)							

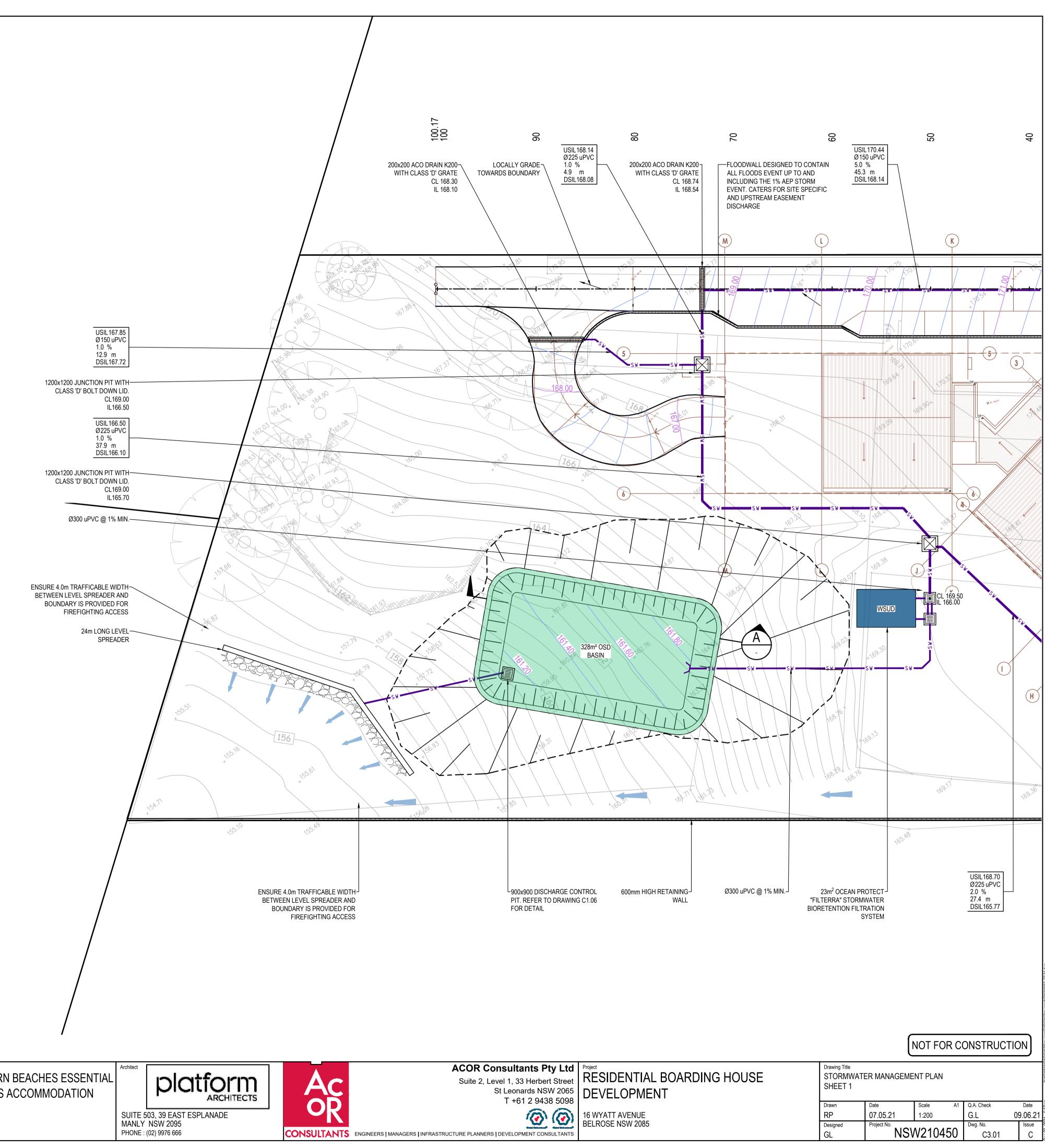


DESIGN CRITE	RIA
TOTAL SITE AREA =	9345 m²
DESIGN METHOD =	ILSAX
MAXIMUM DEPTH =	0.5 m
PRE-DEVELOPED IMPERVIOUS AREA =	0%
POST-DEVELOPED IMPERVIOUS AREA =	31%
PRE DEVELOPED FLOWS (I/s) =	Q ₅ = 196 Q ₂₀ = 330 Q ₁₀₀ = 490
POST DEVELOPED FLOWS (I/s) =	Q ₅ = 142 Q ₂₀ = 199 Q ₁₀₀ = 360
PORTION OF SITE THROUGH OSD SYSTEM =	100%
PORTION OF SITE BYPASSING OSD SYSTEM =	0%
REQUIRED STORAGE VOLUME =	105 m³
ACTUAL STORAGE VOLUME =	117 m³

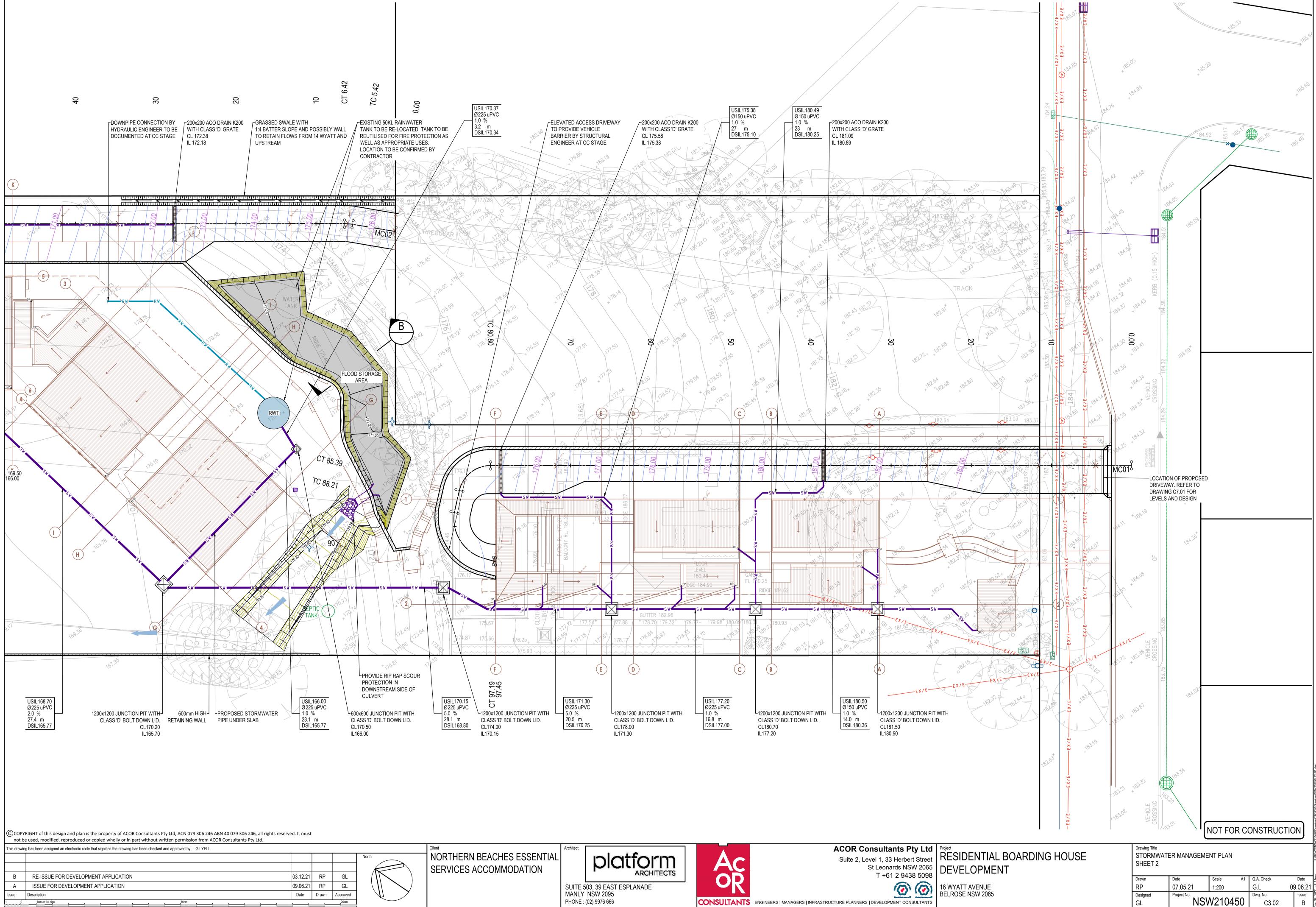


DRAINS MODEL - 5% AEP RESULTS

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	ng has been assigned an electronic code that signifies the drawing has been checked and approved by: G.LYELL					Client
					North	NORTHERN
С	RE-ISSUE FOR DEVELOPMENT APPLICATION	03.12.21	RP	GL		SERVICES A
В	ISSUE FOR DEVELOPMENT APPLICATION	09.06.21	RP	GL		
А	ISSUE FOR CLIENT REVIEW	07.05.21	RP	GL		
Issue	Description	Date	Drawn	Approved		
-1 0	1cm at full size 10cm		·	20cm		

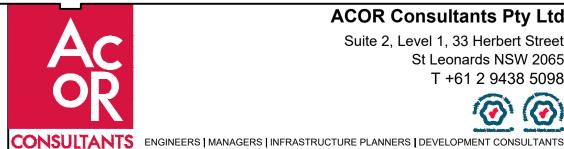


Drawing Title STORMWATI SHEET 1	ER MANAGEME	NT PLAN				
Drawn	Date	Scale	A1	Q.A. Check		Da
RP	07.05.21	07.05.21 1:200		G.L	09	9.06
Designed	Project No.			Dwg. No.		lss
	I NIS\N/210/50			02.04		



Date Drawn

PHONE : (02) 9976 666



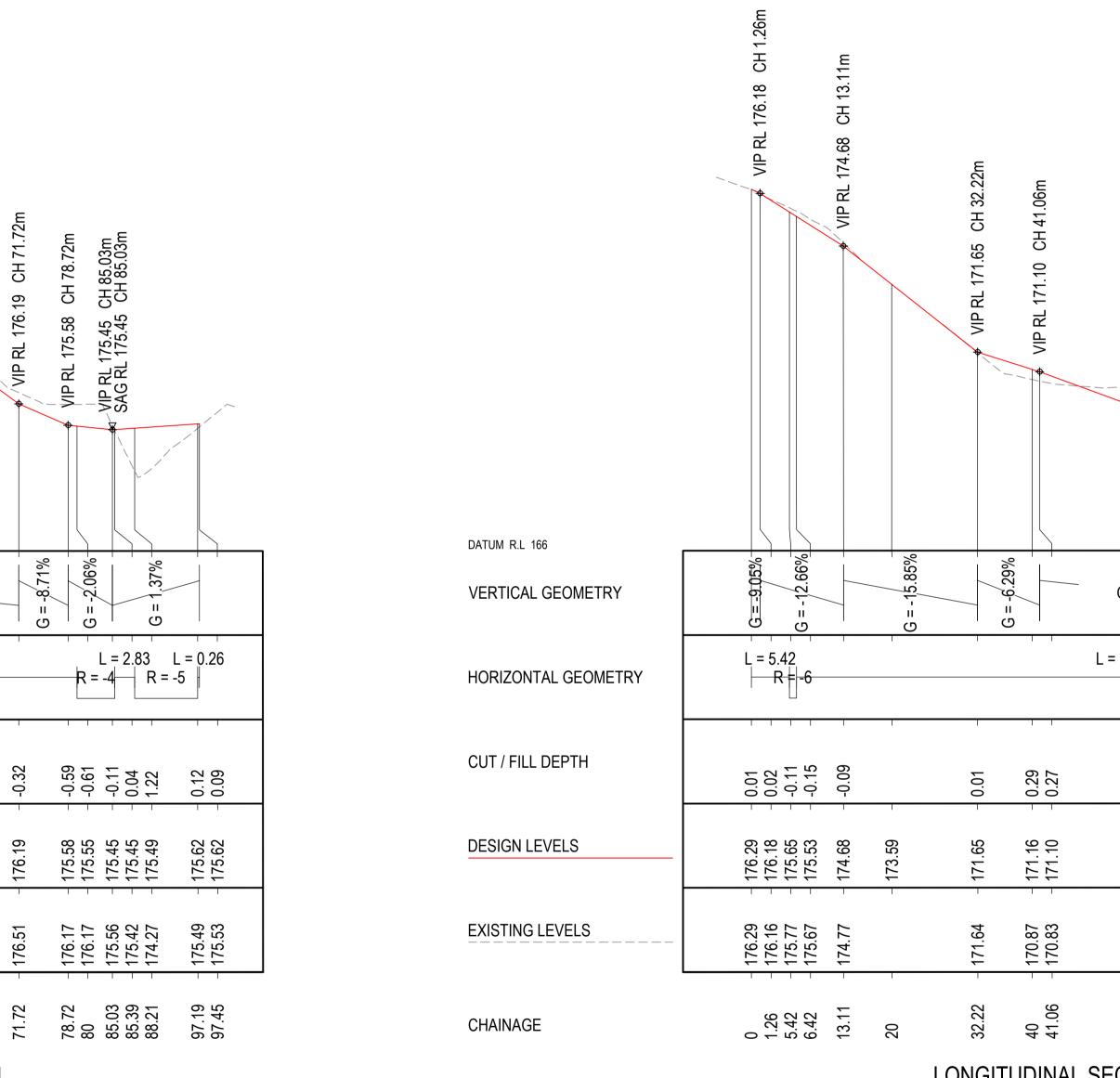
C3.02

В

	VIP RL 183.60 CH 11.47m (BOUNDARY) (BOUNDARY) (BOUNDARY) (BOUNDARY) (BOUNDARY) (BOUNDARY)		
DATUM R.L 172			
VERTICAL GEOMETRY	G = -6.36%	-14.74%	
HORIZONTAL GEOMETRY	L = 80		
CUT / FILL DEPTH	- 0.37 - 0.27 - 0.19 - 0.16 - 0.17	-0.64	
DESIGN LEVELS	183.60 183.60 182.71 181.09 180.86	177.92	07 027
EXISTING LEVELS		- 178.55	
CHAINAGE	11.47 20 25.46 38.47 40	- 09	
	LONGITUDINAL SECT)1

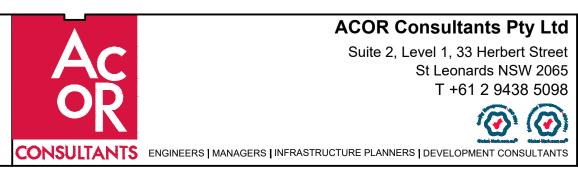
A1 Horizontal Scale 1 : 500	
A1 Vertical scale 1 : 100	

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LONGITUDINAL SECTION - MC02

A1 Horizontal Scale 1 : 500 A1 Vertical scale 1 : 100



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Project
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DEVELOPMENT

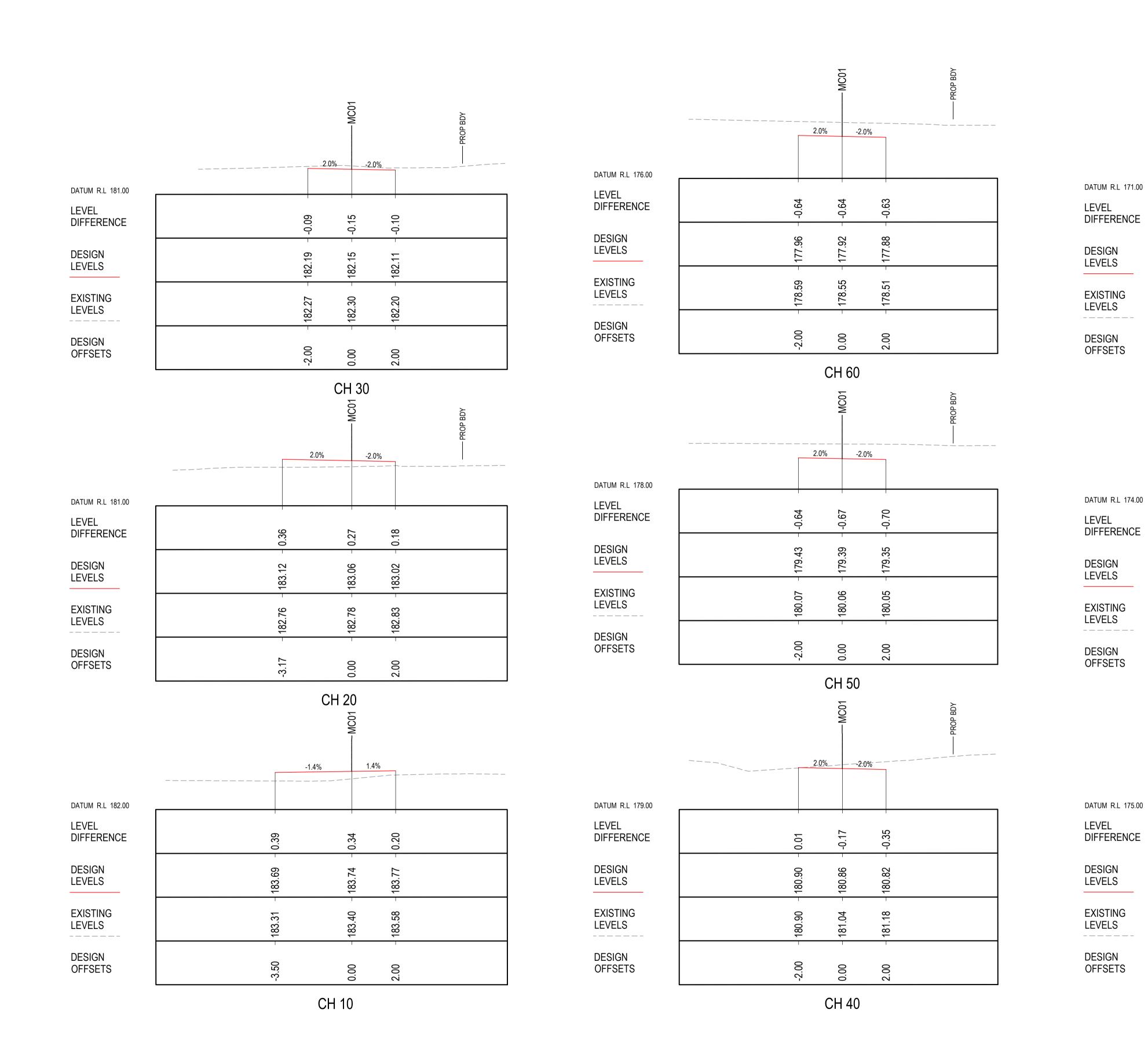
16 WYATT AVENUE BELROSE NSW 2085

Architect

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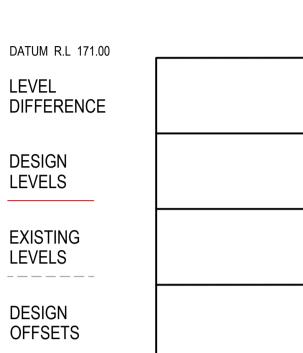
	VIP RL 168.74 CH 73.17m	VIP RL 168.40 CH 78.65m	CH88.39) (CH88.39) (CH88.30) (CH88.30)	VIP RL 168.25 CH 93.50m SAG RL 168.25 CH 93.50m	
G = -7.34%	G = 6 20%		G = -1%	G = 2%	
93.74	Ι	1 1		1	
-	–	2 4		ß	
0.51	-1.51	-1.82 -1.84		-2.18	0.86 0.80
- 169.71	168.74	168.40 168.38		168.25	168.38 168.38
- 170.22	170.25	170.21 170.22 -		170.43	169.23 169.18
- 60	73.17	78.65 80		93.5 -	100 100.17

Drawing Title DRIVEWAY LONGITUDINAL SECTION						
Drawn	Date	Scale A	1	Q.A. Check		Date
RP	20.05.21	1:500		G.L	09	9.06.21
Designed	Project No.			Dwg. No.		lssue
GL	NSW210450			C4.01		В



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					North	NORTHERN BEAC
						SERVICES ACCOM
В	RE-ISSUE FOR DEVELOPMENT APPLICATION	03.12.21	RP	GL		
А	ISSUE FOR DEVELOPMENT APPLICATION	09.06.21	RP	GL		
Issue	Description	Date	Drawn	Approved		
-1 0	1cm at full size	· 		20cm		



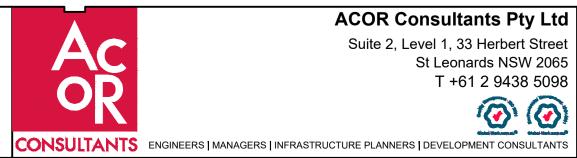
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Project RESIDENTIAL BOARD DEVELOPMENT

16 WYATT AVENUE BELROSE NSW 2085

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RDIN	NG HO	USE	Drawing Title DRIVEW SHEET	AY C	ROSS SEC	TIONS		
			Drawn RP		Date 20.05.21	Scale 1:100	A1	(
			Designed GL		Project No.	ISW2104	150	

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SS SECTI	ONS

A1 Q.A. Check

G.L

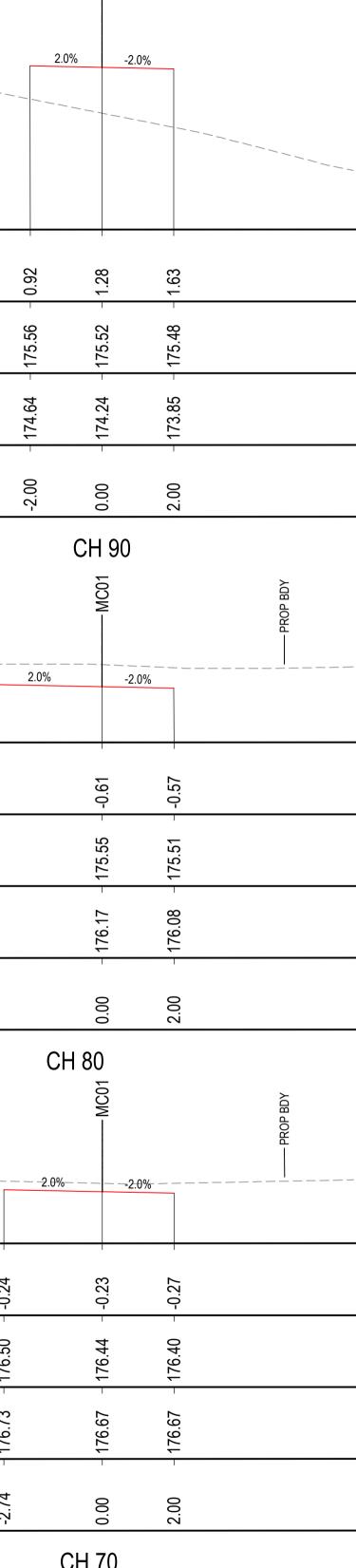
Dwg. No.

C4.10

Date

Issue

В



C01

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					North	
В	RE-ISSUE FOR DEVELOPMENT APPLICATION	03.12.21	RP	GL		8
А	ISSUE FOR DEVELOPMENT APPLICATION	09.06.21	RP	GL		
Issue	Description	Date	Drawn	Approved		

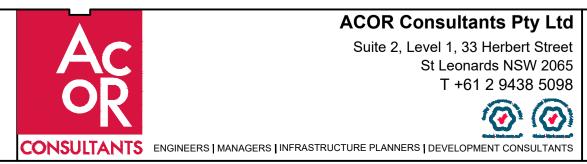
Client
NORTHERN BEAG
SERVICES ACCO

	0.	1%	-0.1%	
DATUM R.L 174.00				
LEVEL DIFFERENCE	0.14	0.12	0.09	
DESIGN LEVELS	175.62	175.62	175.61	
EXISTING LEVELS	175.48	175.49	175.52 -	
DESIGN OFFSETS	-2.00	- 00.0	2.00 -	
	С	CH 97.′	193	

MC01

ACHES ESSENTIAL OMMODATION



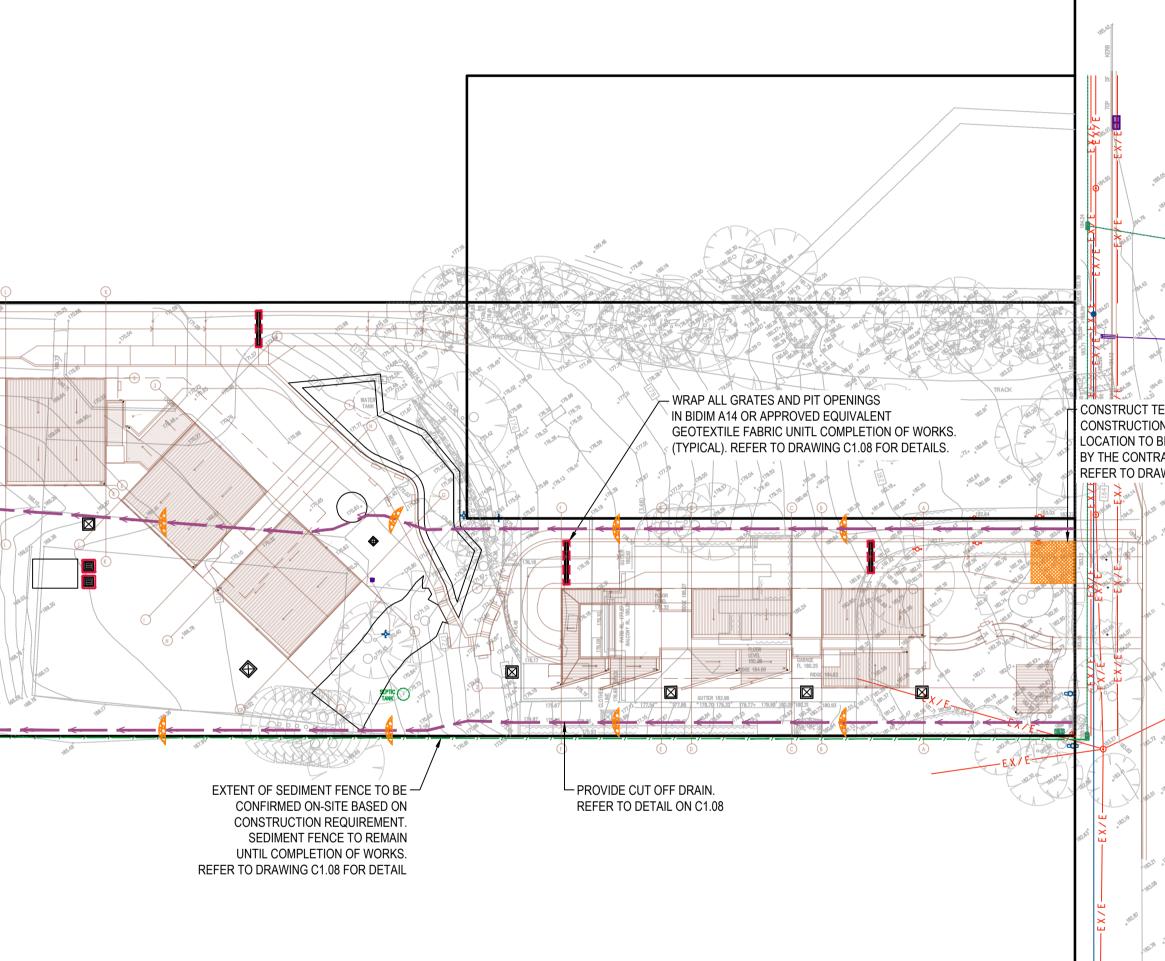


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Project RESIDENTIAL BOARDING HOUSE DEVELOPMENT



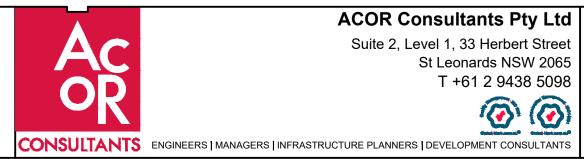
Drawing Title DRIVEWAY (SHEET 2	CROSS SECTIO	NS					P:\NSW21\NSV
Drawn	Date	Scale A	1	Q.A. Check		Date	5:06pm
RP	20.05.21	1:100		G.L	0	9.06.21	
Designed	Project No.			Dwg. No.		Issue	3, 2021
GL	I NSV	<u>V210450</u>)	C4.11		В	Dec 03,

	DETENTION BASIN TO BE USED FOR A SEDIMENT BASIN UNTIL COMPLETION OF WORKS	
		RY ROCK CHECKDAMS Om TO CUT OFF SWALE ON C1.08
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ACHES ESSENTIAL OMMODATION





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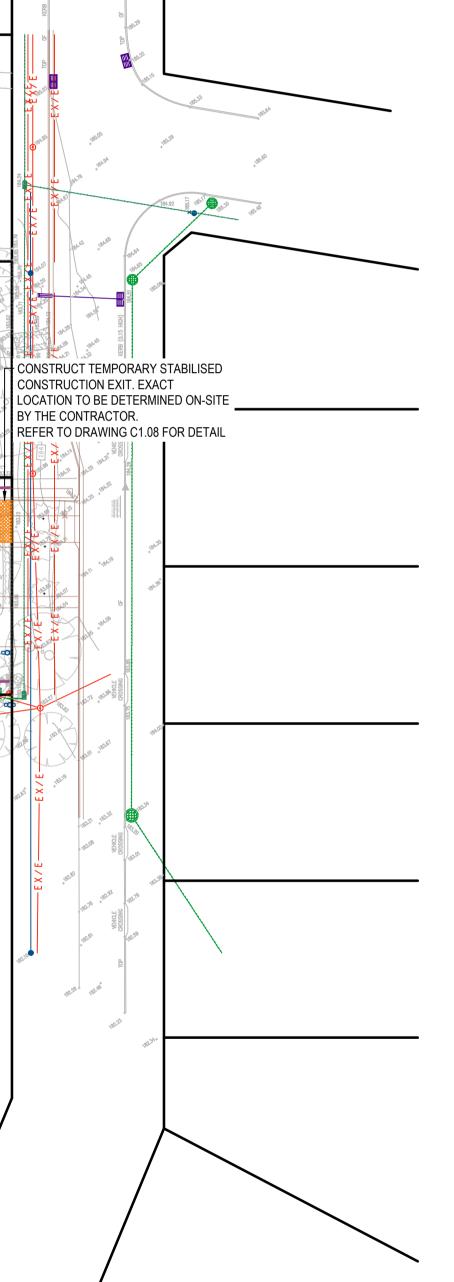
18278 18218

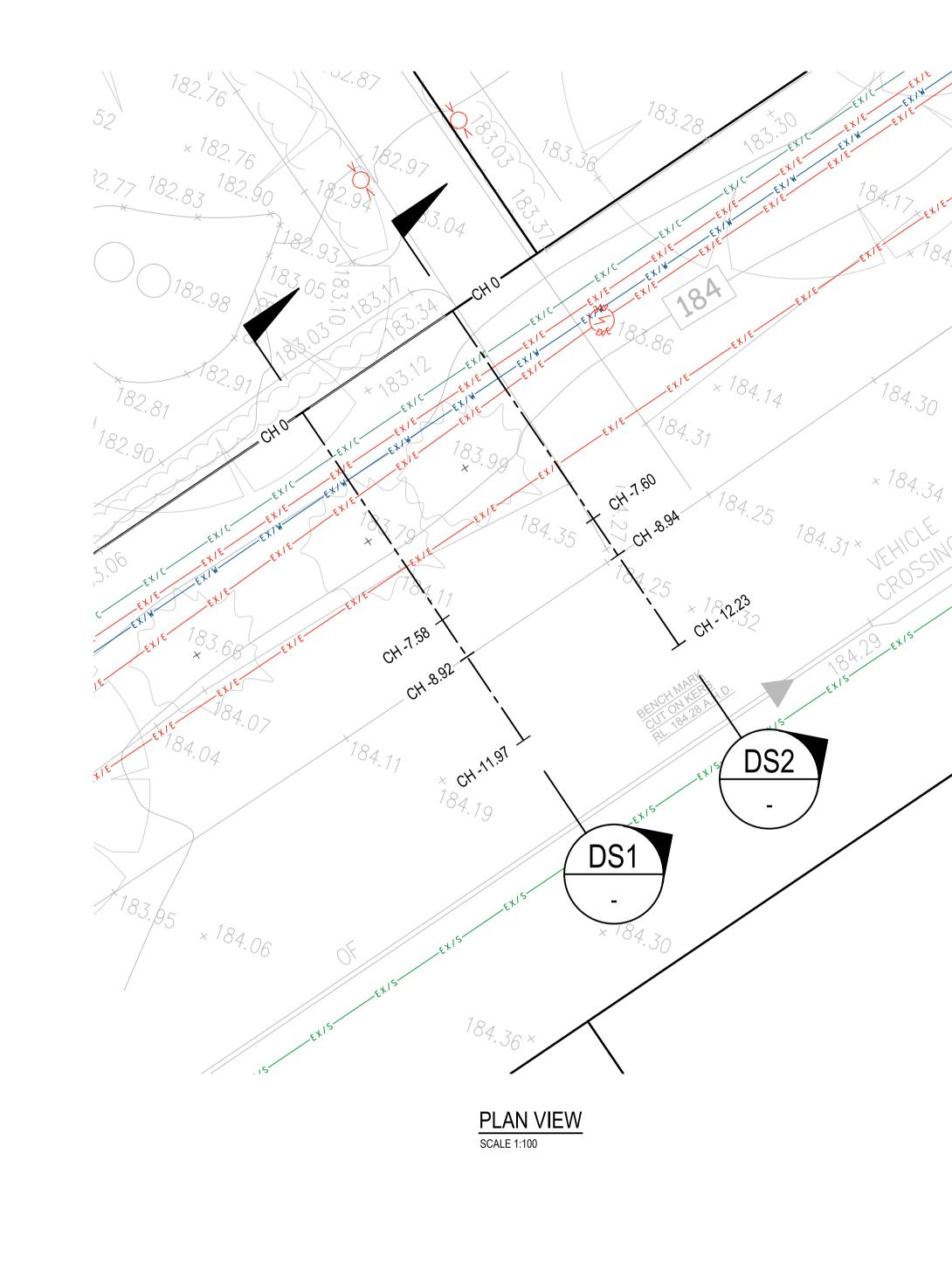
SUITE 503, 39 EAST ESPLANADE MANLY NSW 2095 PHONE : (02) 9976 666

rchitect

BOARDING HOUSE
Т

GL	I NSV	<u>N2104</u>	-50	C5.01	С	
Designed	Project No.			Dwg. No.	Issue	
JH	07.05.21	1:500		G.L	09.06.	21
Drawn	Date	Scale	A1	Q.A. Check	Date	
SUIL ERUSI	ON AND SEDIMI		IRUL	PLAN		

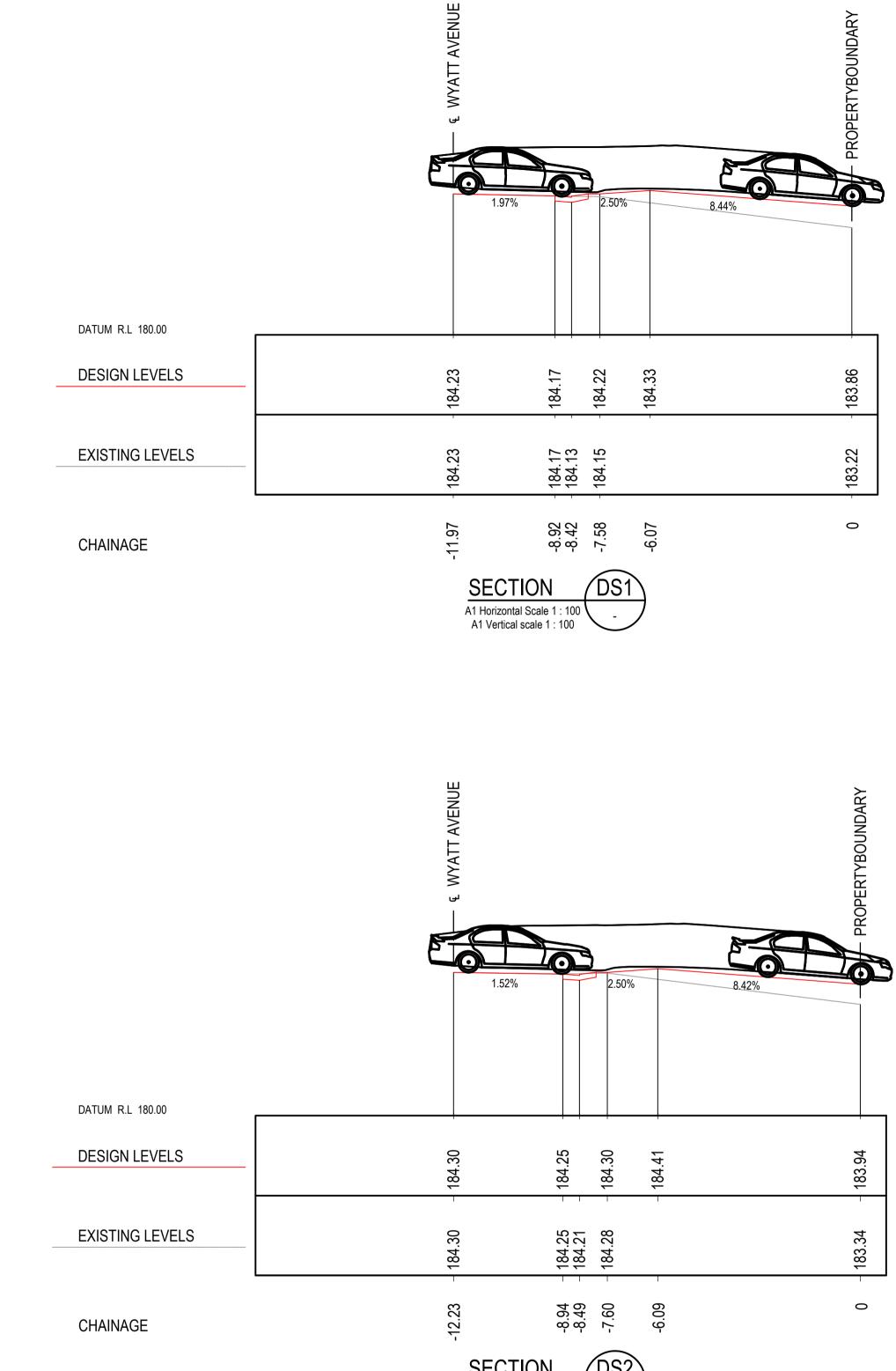




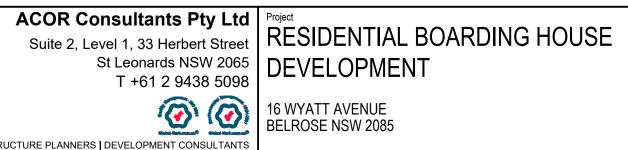
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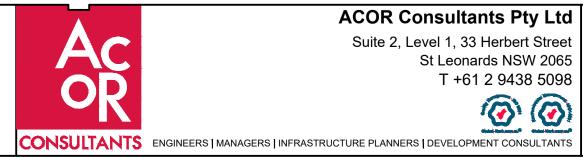
This drawir	g has been assigned an electronic code that signifies the drawing has been checked and approved by: G.LYELL				
					North
B	RE-ISSUE FOR DEVELOPMENT APPLICATION	03.12.21	RP	GL	
A	ISSUE FOR DEVELOPMENT APPLICATION	09.06.21	RP	GL	
Issue	Description	Date	Drawn	Approved	
-1 0	10m 10m			20cm	

NORTHERN BEACHES ESSENTIAL SERVICES ACCOMMODATION



DS2 SECTION A1 Horizontal Scale 1 : 100 A1 Vertical scale 1 : 100





Architect platform ARCHITECTS

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)	

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Drawing Title DRIVEWAY CROSS SECTIONS AND VERTICAL

Drawn	Date	Scale	A1	Q.A. Check	Date
RP	12.05.21	1:100		G.L	09.06.21
Designed GL	Project No.	V21045	50	Dwg. No. C7.01	lssue B