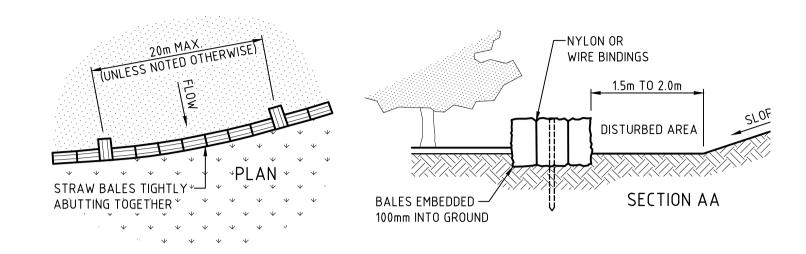


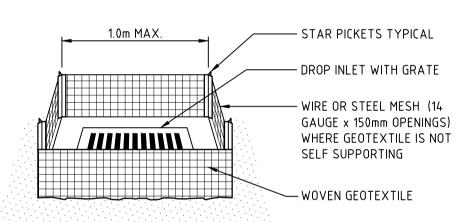
**ELEVATION** 

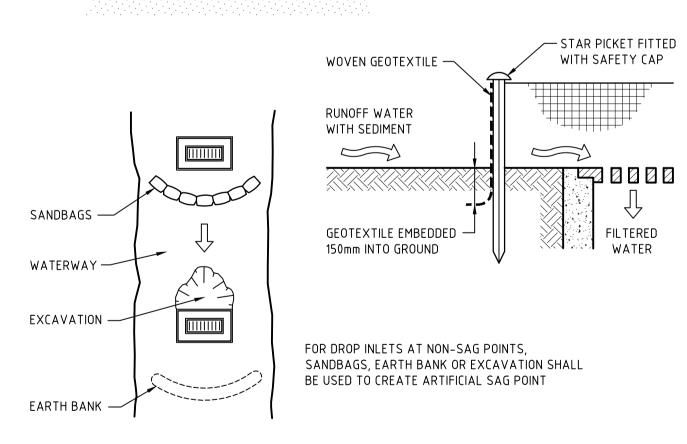


#### **CONSTRUCTION NOTES:**

- 1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE. 2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN
- BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND.
- 3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
- 4. EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2m STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE THEM 600mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY
- PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS. 5. WHERE STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE
- PLACED 1.0m TO 2.0m DOWNSLOPE FROM THE TOE.
- 6. ESTABLISH A MAINTENANCE PROGRAMME THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED THEY
- COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

### STRAW BALE FILTER DETAIL





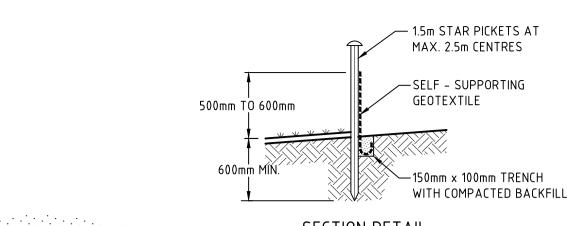
### **CONSTRUCTION NOTES:**

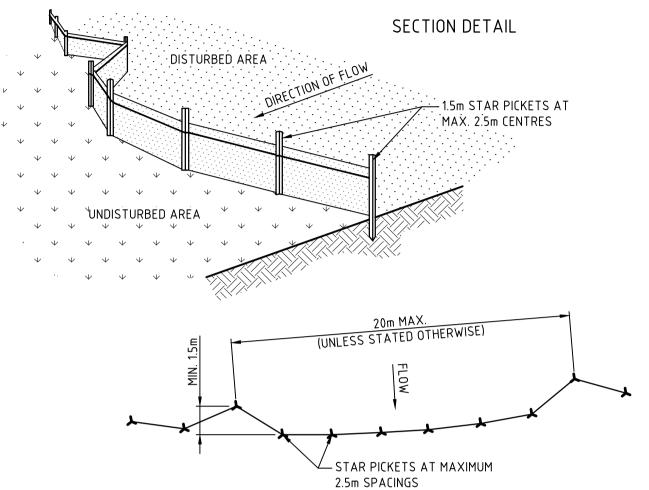
- 1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
- 2. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
- 3. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR
- ALL WATERS TO BYPASS IT.

### GEOTEXTILE INLET FILTER DETAIL

FOR PITS WITHIN LANDSCAPED AREAS

NOT TO SCALE

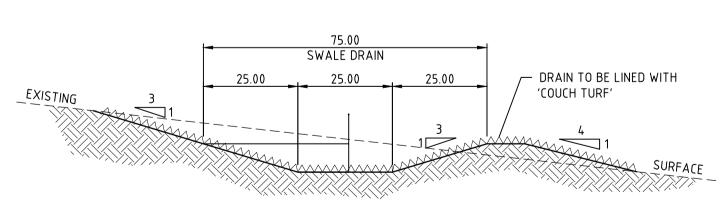




#### CONSTRUCTION NOTES:

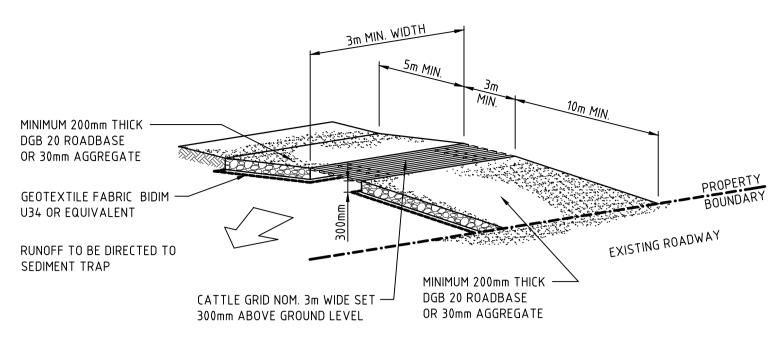
- 1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
- 2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
- 3. DRIVE 1.5 METRE LONG STAR PICKETS INTO THE GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
- 4. FIX SELF SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
- 5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150-mm OVERLAP. 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE DETAIL



TYPICAL CATCH DRAIN SCALE 1:20

# NOT FOR CONSTRUCTION



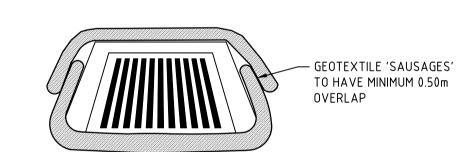
GEOFABRIC MAY BE A WOVEN OR NEEDLE-PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500 N

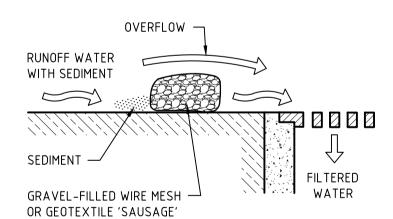
### **CONSTRUCTION NOTES:**

- 1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
- 2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
- 3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE. 4. ENSURE THE STRUCTURE IS AT LEAST 15m LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3m WIDE.
- 5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

### STABILISED SITE ACCESS WITH SHAKER GRID DETAIL

NOT TO SCALE





### **CONSTRUCTION NOTES:**

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES. 2. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

### GEOTEXTILE INLET FILTER DETAIL

FOR PITS WITHIN PAVEMENT AREAS

NOT TO SCALE

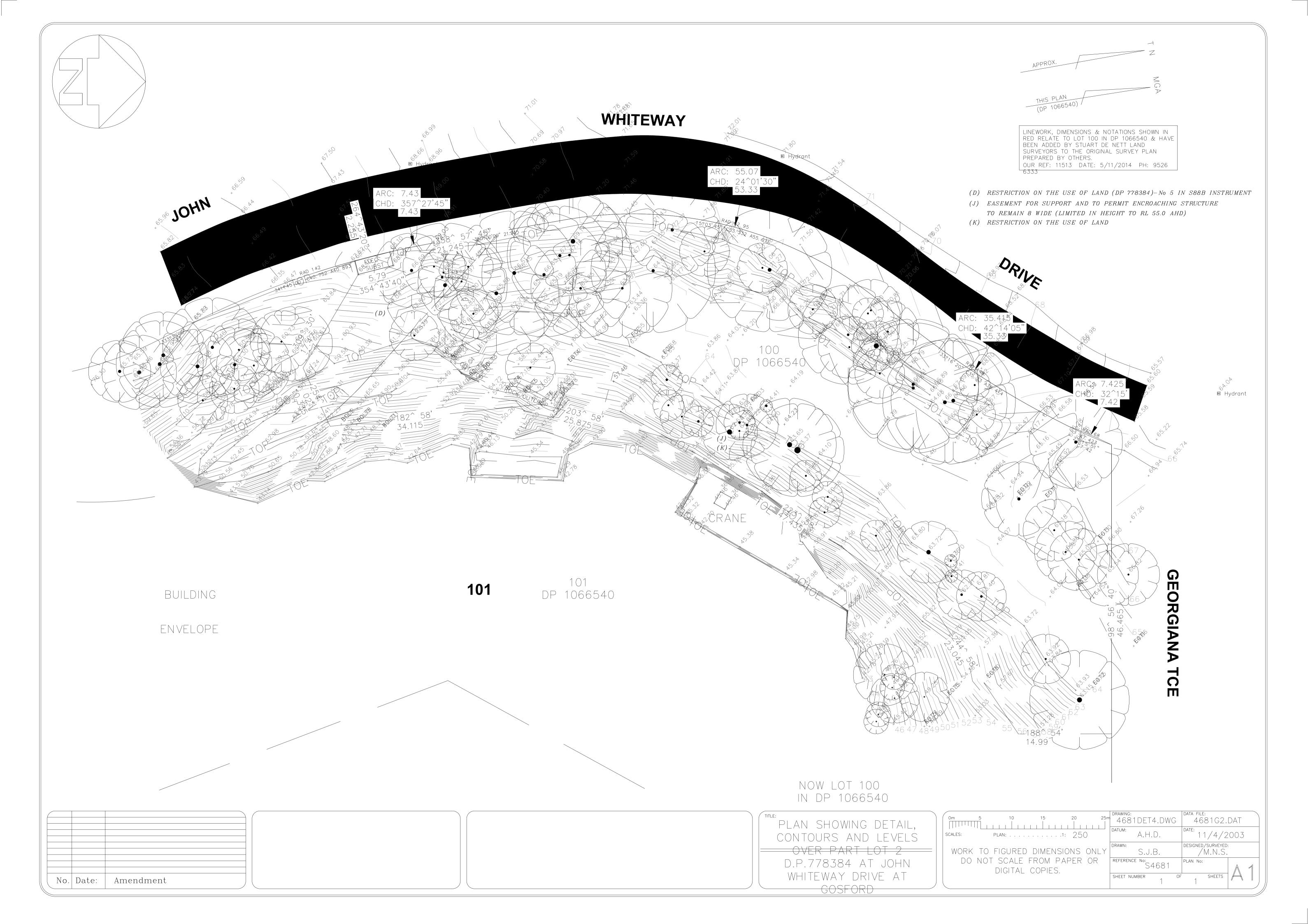
03	W.W.	27/01/15	A.M.	27/01/15	ISSUE TO COUNCIL FOR DEVELOPMENT APPLICATION
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REV.	DES.	DATE	VER.	DATE	DESCRIPTION

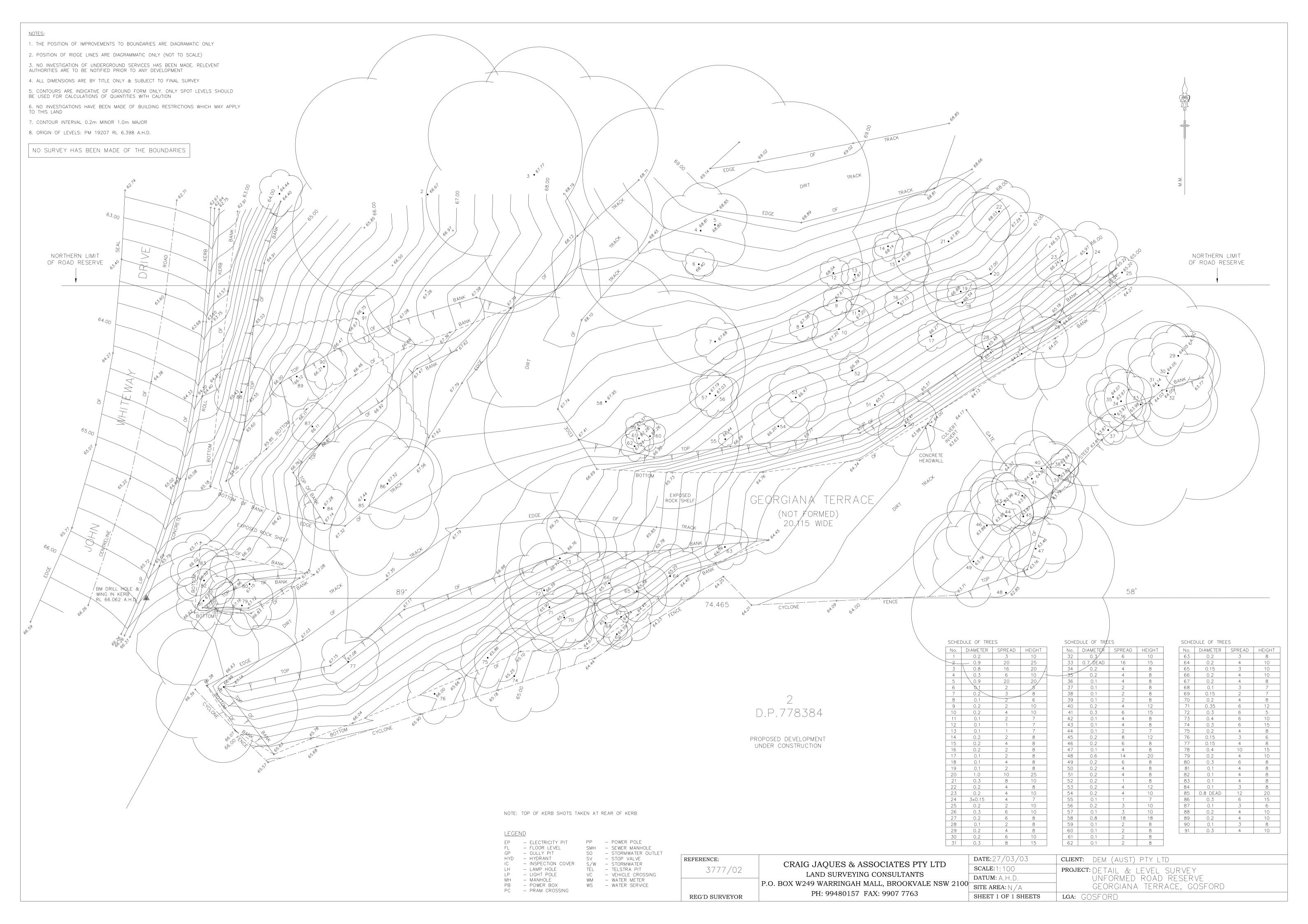


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AND HYDRAULIC NEERING DESIGN AND	DESIGNED	W. WEBB	DATE	27/01/15
ECT MANAGEMENT E 26 I 3 BROOKHOLLOW AVE	VERIFIED	A. MANCONE	DATE	27/01/15
KHAM HILLS NSW 2153  (E: (02) 9680 3100	DRAWN	J. CHOI	SCALE @ A1	NTS
(02) 9634 6989	© THIC DD III	THE AND DEGLESS IS THE CONTROL	AGUTE OF GALL GOL	IGUI EDIG ENGDIEED

DESIGNED	W. WEBB	DATE	27/01/15	NO.70 JOHN WHITEWAY DRIVE, GOSFORD
VERIFIED	A. MANCONE	DATE	27/01/15	SEDIMENT & EROSION CONTROL DETAILS
DRAWN	J. CHOI	SCALE @ A1	NTS	
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# NO.70 JOHN WHITEWAY DRIVE, GOSFORD PROPOSED RESIDENTIAL FLAT BUILDING STORMWATER DRAINAGE WORKS

### **GENERAL NOTES:**

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION.
- 2. THE CONSTRUCTOR SHALL PREPARE A DILAPIDATION REPORT FOR THE EXISTING INFRASTRUCTURE WITHIN THE ROAD RESERVE, INCLUDING BUT NOT LIMITED TO KERBS, GUTTERS, FOOTPATHS, VEHICULAR CROSSINGS, STREET SIGNS, SERVICE FITTING COVERS, ETC.
- THE CONSTRUCTOR SHALL REVIEW, BE AWARE AND AT ALL TIMES COMPLY WITH THE SPECIFIC REQUIREMENTS FOR THIS DEVELOPMENT AS SET OUT IN THE DEVELOPMENT APPROVAL FOR THE PROJECT.
- 4. ANY CHANGES MADE BY THE CONSTRUCTOR TO ANY LEVEL, DIMENSION, LOCATION, POSITION, ALIGNMENT ETC., OF ANY OF THE WORKS SHOWN ON THE DRAWINGS WITHOUT THE WRITTEN CONSENT OF C&M CONSULTING ENGINEERS PTY. LTD. AND OR THE PRINCIPAL CERTIFYING AUTHORITY IS DONE SO AT THE CONSTRUCTORS OWN RISK.
- 5. THE CONSTRUCTOR SHALL ALLOW TO LIAISE WITH AND PROVIDE SUFFICIENT NOTICE TO THE PRINCIPAL CERTIFYING AUTHORITY TO ENSURE THAT ALL WORKS ARE INSPECTED TO ENABLE COMPLIANCE CERTIFICATES TO BE ISSUED THROUGHOUT THE CONSTRUCTION PERIOD. THE CONSTRUCTOR SHALL LIAISE WITH THE PRINCIPAL CERTIFYING AUTHORITY PRIOR TO ANY CONSTRUCTION WORKS COMMENCING AND PREPARE AN INSPECTION AND TEST PLAN WITH A MUTUALLY AGREED WITNESS AND HOLD POINTS FOR THE CONSTRUCTION WORKS.
- 6. IF THE PRINCIPAL CERTIFYING AUTHORITY IS NOT GOSFORD CITY COUNCIL, THEN THE CONSTRUCTOR MUST CONTACT GOSFORD CITY COUNCIL'S WORKS DIVISION TO ENABLE THEIR INSPECTION OF ALL WORKS (INCLUDING EROSION AND SEDIMENT CONTROL MEASURES) WITHIN THE ROAD RESERVE AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ACCESS TO THE SITE. THE ACCESS SHALL BE ALL WEATHER SAFE ACCESS TO THE CONTRACTOR'S SITE FACILITIES AT ALL TIMES FOR THE DURATION OF THE CONTRACT
- 8. A TEMPORARY HOARDING OR FENCE OF MINIMUM 1.5m HIGH IS TO BE PROVIDED AROUND THE SITE TO PROTECT THE PUBLIC PRIOR TO COMMENCEMENT OF WORKS. HOARDINGS OR FENCES ARE TO BE STRUCTURALLY ADEQUATE. THE CONTRACTOR SHALL OBTAIN AN APPROVAL FROM COUNCIL PRIOR TO ERECTING THE HOARDING OR FENCE.
- ALL NEW WORKS SHALL MAKE A SMOOTH CONNECTION WITH ANY FORMATIONS, STRUCTURES, ETC.
- 10. ALL ALTERATIONS AND/OR ADDITIONS TO EXISTING WORK, THE CONTRACTOR SHALL VERIFY THE DIMENSIONS OF THE EXISTING WORK BEFORE PROCEEDING AND NOTIFY THE SUPERINTENDENT OF DISCREPANCIES.
- 11. THE CONTRACTOR SHALL USE MANUFACTURED ITEMS IN THE WORK ONLY IN ACCORDANCE WITH THE CURRENT PUBLISHED
- 12. THE WORKS SHALL BE CONSTRUCTED IN SUCH A MANNER THAT THERE IS MINIMUM DISTURBANCE TO EXISTING TREES AND VEGETATION.
- 13. THE PUBLIC FOOTWAY AND ROADWAY FRONTING THE SITE SHALL BE MAINTAINED IN A SAFE AND UNOBSTRUCTED MANNER AT ALL TIMES DURING THE CONSTRUCTION WORKS.
- 14. THE CONSTRUCTOR SHALL BE RESPONSIBLE FOR REPAIRING TO THE SATISFACTION OF THE ASSET OWNER, ANY DAMAGE CAUSED TO ANY EXISTING INFRASTRUCTURE WITHIN THE ROAD RESERVE, INCLUDING BUT NOT LIMITED TO KERBS, GUTTERS, FOOTPATHS, VEHICULAR CROSSINGS, STREET SIGNS, SERVICE FITTING COVERS, ETC.
- 15. THE SITE SHALL BE KEPT IN A TIDY CONDITION AT ALL TIMES. LITTER RUBBISH AND BUILDING RUBBLE SHALL BE PLACED IN CONTAINERS OR BINS AND REGULARLY REMOVED FROM SITE AS REQUIRED

### STORMWATER NOTES:

- 1. STORMWATER DESIGN CRITERIA: MINOR STORM ARI: 20 YEARS MAJOR STORM ARI: 100 YEARS IFD DATA LOCALITY: GOSFORD
- PIPES DN375 AND LARGER TO BE STEEL REINFORCED CONCRETE PIPES CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS U.N.O.
- 3. PIPES DN300 AND SMALLER SHALL BE GRADE SH (SEWER GRADE) uPVC WITH RUBBER RING JOINTS.
- 4. EQUIVALENT STRENGTH FIBRE REINFORCED CONCRETE PIPES MAY BE USED UP TO DN450.
- 5. PIPES FOR SUB-SOIL DRAINS SHALL BE SLOTTED 100MM DIAMETER CLASS 1000 WRAPPED IN GEOFABRIC, U.O.N, COMPLYING WITH THE REQUIREMENTS OF AS 2439.
- 6. PRECAST PITS, WHERE ALLOWED, AND THE INSITU BASE SHALL COMPLY WITH THE REQUIREMENT OF THE MANUFACTURER.
- ALL MILD STEEL FIXTURES INCLUDING GRATES, FRAMES, STEP IRONS, LADDERS, ETC., SHALL BE HOT DIP GALVANISED. GALVANISING SHALL COMPLY WITH THE REQUIREMENTS OF AS 1214 OR AS 1650, AS APPROPRIATE.
- GEOFABRIC FILTER SHALL BE PERMEABLE, NON-WOVEN FABRIC MANUFACTURED FROM A POLYMER SUCH AS POLYPROPYLENE OR POLYESTER OF MASS NOT LESS THAN 135G/M2.
- 9. THE MINIMUM TRENCH WIDTHS SHALL BE AS FOLLOWS: CONCRETE AND FRC PIPES: EXTERNAL PIPE DIAMETER PLUS 400MM. uPVC PIPE: EXTERNAL DIAMETER OF PIPE PLUS 200MM. SUBSOIL PIPE:
- 10. ALL PIPES SHALL BE PLACED CENTRALLY WITHIN THE TRENCH WITH EQUAL CLEARANCE EACH SIDE.
- 11. 100mm DIA. SUBSOIL DRAINAGE PIPE 3m LONG WRAPPED IN FILTER SOCK TO BE PROVIDED IN PIPE TRENCHES UPSTREAM OF ALL PITS.
- 12. PIPE BEDDING MATERIAL SHALL BE CLEAN COARSE RIVER SAND WITH DEPTH AS FOLLOWS: CONCRETE AND FRC PIPES: 100MM (175MM IN ROCK)
- UPVC PIPE 75MM (100MM IN ROCK) SUBSOIL DRAINS:
- 13. ALL PIPES SHALL BE BACKFILLED WITH GRANULAR MATERIAL SUCH AS QUARRY FINES OR COARSE RIVER SAND TO A MINIMUM OF 150MM ABOVE THE PIPE. THE GRANULAR MATERIAL SHALL BE PLACED IN 150MM THICK MAXIMUM LAYERS AND COMPACTED TO ACHIEVE A DENSITY INDEX (ID) OF 70%. FREQUENCIES OF COMPACTION TESTS FOR TRENCHES SHALL BE 1 TEST PER 2 LAYERS PER 40 LINEAR METRE
- 14. BACKFILL THE REMAINDER OF THE TRENCH ABOVE THE SAND TO SUBGRADE LEVEL WITH TRENCH MATERIAL. PLACE AND COMPACT MATERIALS IN LAYERS NOT EXCEEDING 150MM LOOSE THICKNESS. MATERIAL LOWER THAN 500MM BELOW SUBGRADE LEVEL SHALL BE COMPACTED TO AT LEAST 95% OF STANDARD MAXIMUM DRY DENSITY. THE TOP 500MM BELOW PAVEMENT SUBGRADE LEVELS SHALL BE COMPACTED TO AT LEAST 100% STANDARD MAXIMUM DRY DENSITY.
- 15. FILTER MATERIAL FOR SUBSOIL SHALL BE COARSE SAND OR CRUSHED STONE COMPLYING WITH ONE OF THE GRADINGS IN THE TABLE BELOW. WHERE NOTED ON THE DRAWINGS THE 7MM CRUSHED ROCK FILTER MATERIAL SHALL BE ENCLOSED WITHIN FILTER FABRIC SHEET AS SPECIFIED. FILTER MATERIAL SHALL BE PLACED IN 250MM LAYERS AND COMPACTED TO DENSITY INDEX (ID) OF 60%.

AS SIEVE		
SIZE (mm)	SAND	7mm ROCK
9.5	100	100
6.7	-	75-100
4.75	90-100	20-55
2.36	75-100	0-15
1.18	50-90	
0.6	20-60	
0.3	10-30	
0.15	2-10	
0.075	0-3	0-2

16. UNLESS OTHERWISE DETAILED OR PERMITTED, THE MINIMUM GRADE OF ALL PIPE WORKS SHALL BE 1.0%.

### SETTING OUT NOTES:

- 1. THE CONSTRUCTOR SHALL USE A SUITABLY QUALIFIED SURVEYOR TO SET OUT ALL WORKS. THE SURVEYOR SHALL ISSUE A CERTIFICATE TO THE PRINCIPAL CERTIFYING AUTHORITY CERTIFYING THAT THE WORKS HAVE BEEN SET OUT IN ACCORDANCE WITH THE APPROVED DRAWINGS PRIOR TO THE WORKS BEING CONSTRUCTED.
- 2. THE SURVEY WORK ASSOCIATED WITH THE CONTRACT SHALL INCLUDE SETTING OUT THE FOLLOWING COMPONENTS OF THE WORK:
  - DRAINAGE STRUCTURES

### **ENVIRONMENTAL CONTROL NOTES:**

### EROSION AND SEDIMENT CONTROL

- 1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF EROSION AND SEDIMENTATION TO THE SATISFACTION OF COUNCIL, THE RELEVANT STATE AUTHORITIES AND THE SUPERINTENDENT. TO THIS END, THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE DRAWINGS SHALL ONLY BE USED AS A GUIDE BY THE CONTRACTOR, AND SHALL REPRESENT THE MINIMUM REQUIREMENT
- 2. NO CONSTRUCTION WORKS ARE TO COMMENCE ON SITE UNTIL ALL EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AND HAVE BEEN INSPECTED AND APPROVED BY THE COUNCIL ENGINEER AND/OR SUPERINTENDENT
- 3. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REGULARLY INSPECTED, IN PARTICULAR AFTER STORMS, AND REPAIRED OR MAINTAINED AS REQUIRED TO ENSURE THE MEASURES CORRECT AND EFFICIENT FUNCTION THROUGHOUT THE DURATION OF THE WORKS, UNTIL SUCH TIME AS THE COUNCIL ENGINEER AND/ORSUPERINTENDENT AUTHORISES THE REMOVAL OF SUCH MEASURES.
- 4. ALL STOCKPILES SHALL BE CLEAR OF ALL TREES AND DRAINAGE LINES (INCLUDING OVERLAND FLOW PATHS) AND PROTECTED FROM EROSION.
- N THE CASE OF THE TEMPORARY CONSTRUCTION EXIT, THE CONTRACTOR SHALL UNDERTAKE WEEKLY SURFACE CLEANING BY DRAG BROOM OR EQUIVALENT, TO REMOVE ALL BUILD UP OF FOREIGN MATERIAL TO THE SATISFACTION OF THE SUPERINTENDENT

### TRAFFIC CONTROLS

- 1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF TRAFFICS INCLUDING VEHICLES AND PEDESTRIANS TO THE SATISFACTION OF COUNCIL. THE RELEVANT STATE AUTHORITIES AND THE SUPERINTENDENT
- 2. THE CONTRACTOR IS TO PREPARE A TRAFFIC MANAGEMENT PLAN TO THE REQUIREMENTS OF THE RMS - TRAFFIC CONTROL AT WORK SITE, AS 1742 -AUSTRALIAN STANDARD MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND LOCAL COUNCIL STANDARDS.

### OTHER ENVIRONMENTAL CONTROLS

1. OTHER ENVIRONMENTAL CONTROLS LIKE NOISE, DUST, VIBRATION, FLORA & FAUNA, FIRE, HAZMAT, AND CONTAMINATIONS MUST BE CONTROLLED TO THE REQUIREMENT OF THE COUNCIL AND THE RELEVANT STATE AUTHORITIES.

### DRAWING INDEX

01328100	COVER SHEET, DRAWING INDEX, GENERAL NOTES & LOCALITY SKETCH
01328201	STORMWATER DRAINAGE BASEMENT PLAN
01328202	STORMWATER DRAINAGE GROUND FLOOR PLAN
01328203	STORMWATER DRAINAGE FIRST FLOOR PLAN
01328204	STORMWATER DRAINAGE SECOND TO FOURTH FLOOR PLAN
01328601	STORMWATER DRAINAGE CATCHMENT PLAN
01328621	ON-SITE DETENTION #1 - TANK SECTIONS AND DETAILS
01328622	HEADWALL DETAILS
01328701	SEDIMENT & EROSION CONTROL PLAN
01328702	SEDIMENT & EROSION CONTROL DETAILS
01328801	DRIVEWAY ARRANGEMENT PLAN
01328802	DRIVEWAY LONGITUDINAL SECTIONS SHEET 1
01328803	DRIVEWAY LONGITUDINAL SECTIONS SHEET 2



LOCALITY SKETCH NOT TO SCALE

# NOT FOR CONSTRUCTION

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REV.	DES.	DATE	VER.	DATE	DESCRIPTION



	ENGINEE	D HYDRAULIC RING DESIGN AND MANAGEMENT
		ROOKHOLLOW AVE M HILLS NSW 2153
rc.	PHONE: FAX:	(02) 9680 3100 (02) 9634 6989

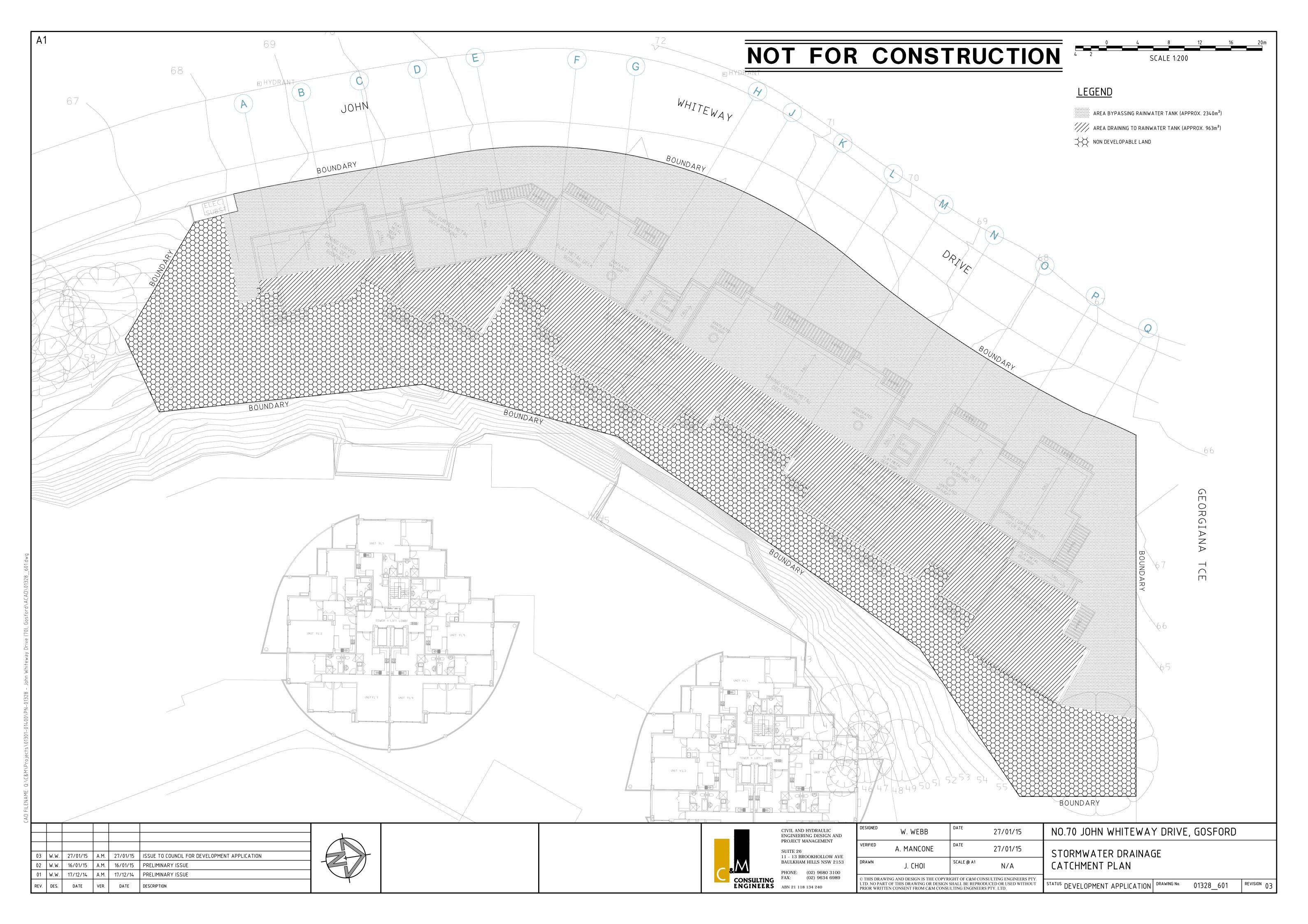
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VERIFIED	A. MANCONE	DATE	27/01/15	
DRAWN	J. CHOI	SCALE @ A1	N/A	
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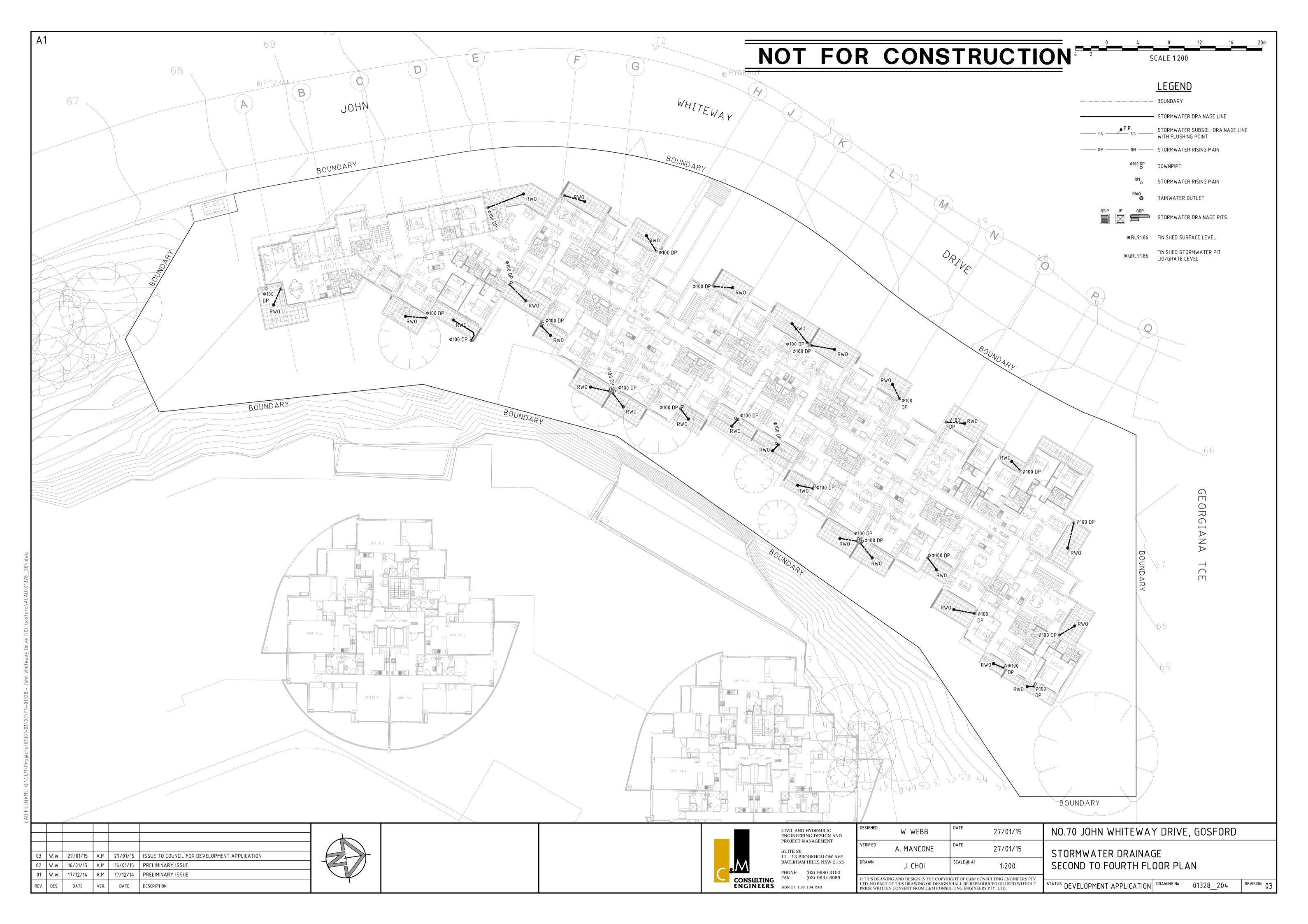
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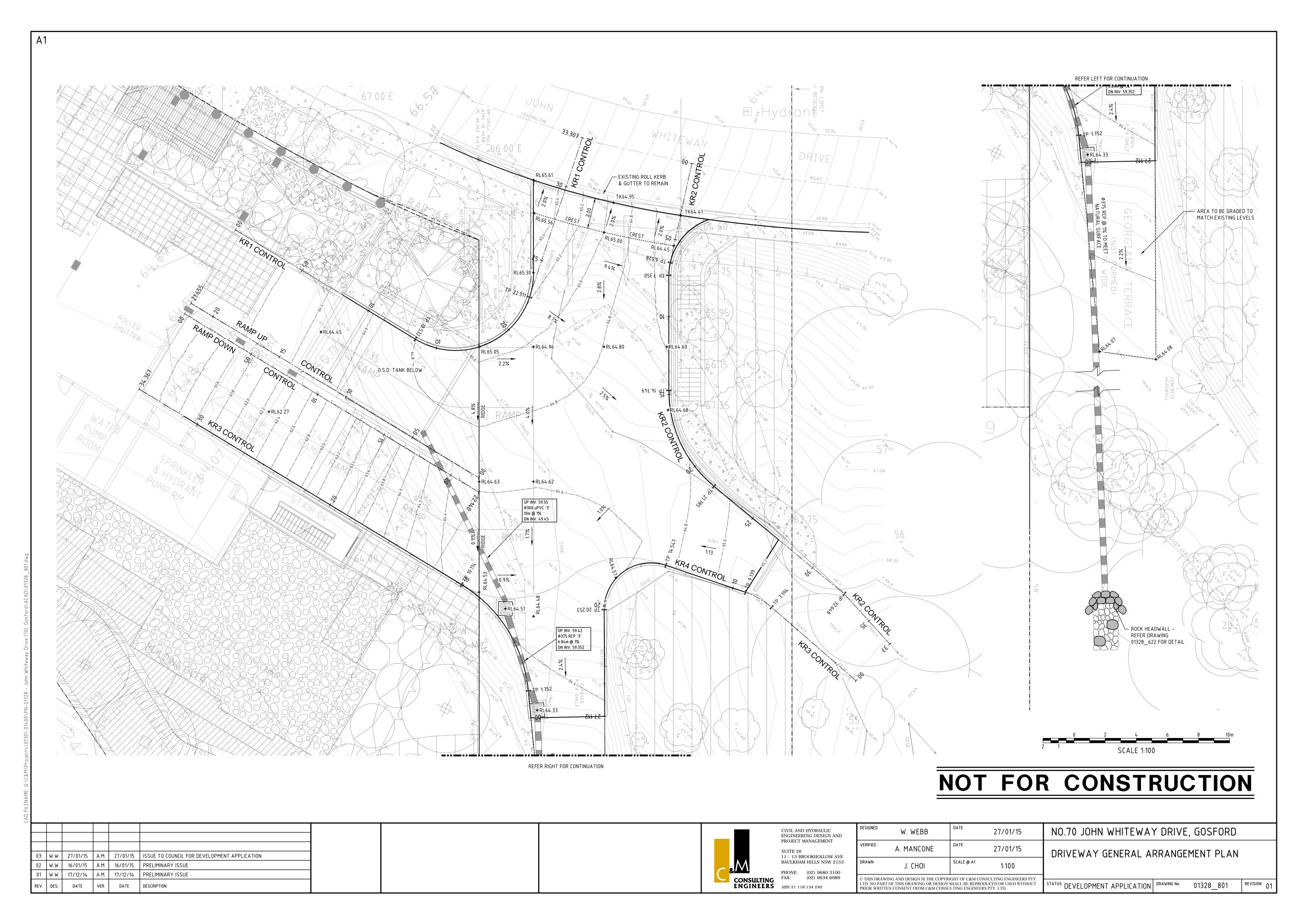
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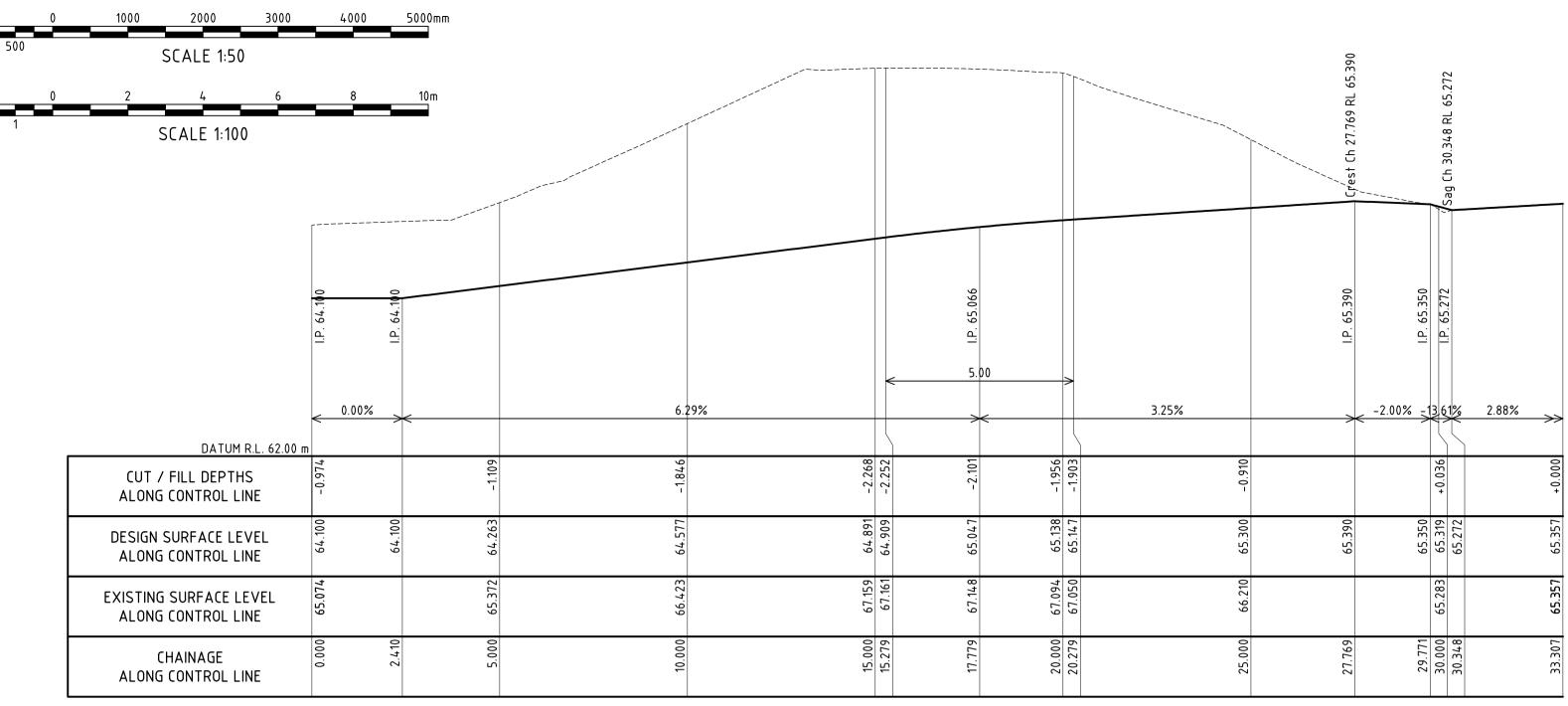
NO.70 JOHN WHITEWAY DRIVE, GOSFORD COVER SHEET, DRAWING INDEX GENERAL NOTES & LOCALITY SKETCH

STATUS DEVELOPMENT APPLICATION DRAWING No. 01328 100



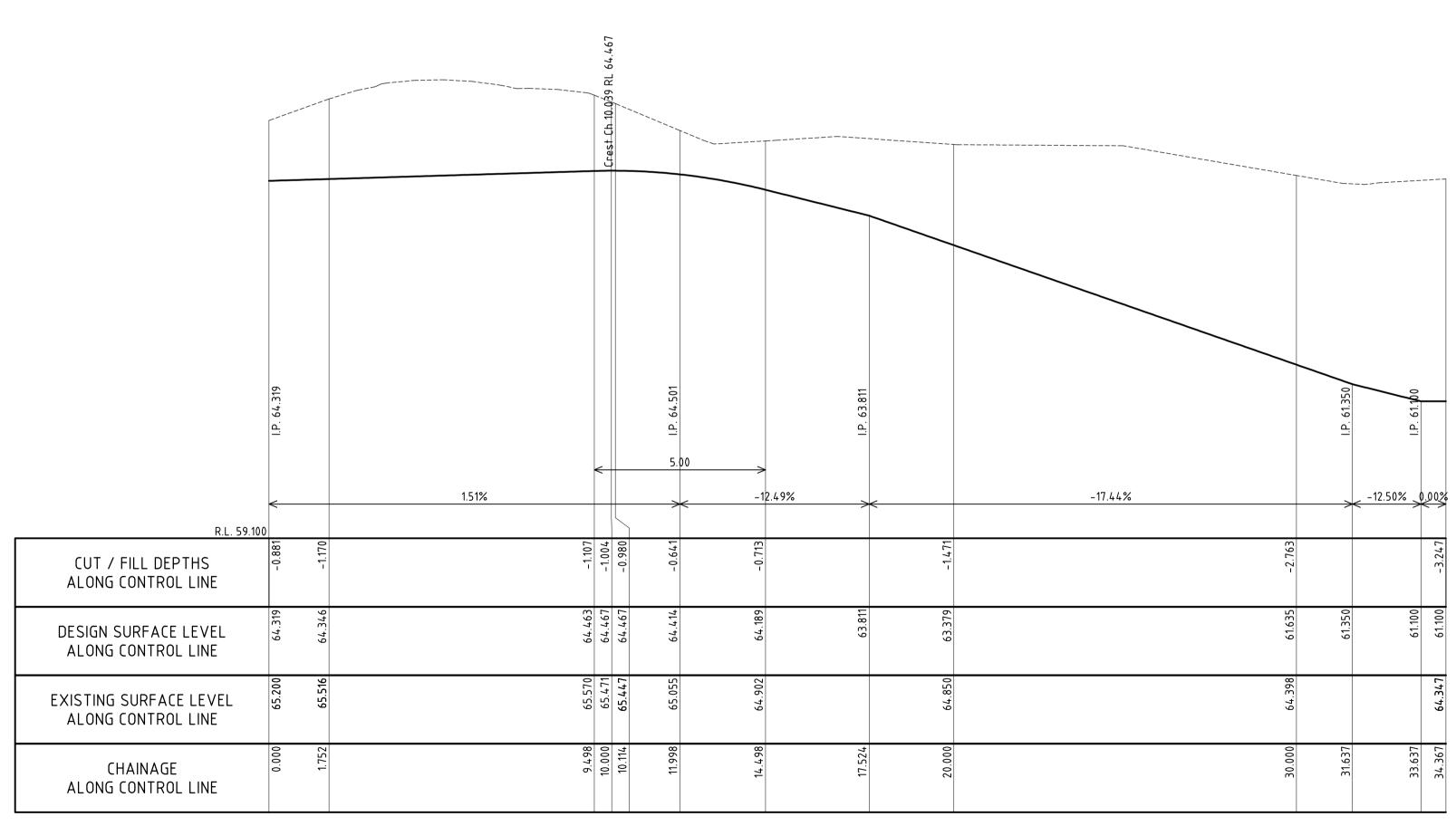






# LONGITUDINAL SECTION ALONG KR1 CONTROL

SCALE (V) 1:50 (H) 1:100



### LONGITUDINAL SECTION ALONG KR3 CONTROL SCALE (V) 1:50 (H) 1:100

CIVIL AND HYDRAULIC ENGINEERING DESIGN AND PROJECT MANAGEMENT 11 - 13 BROOKHOLLOW AVE BAULKHAM HILLS NSW 2153

EXISTING SURFACE LEVEL

ALONG CONTROL LINE

CHAINAGE

ALONG CONTROL LINE

W. WEBB 27/01/15 A. MANCONE 27/01/15 SCALE @ A1 AS NOTED J. CHOI THIS DRAWING AND DESIGN IS THE COPYRIGHT OF C&M CONSULTING ENGINEERS PTY.

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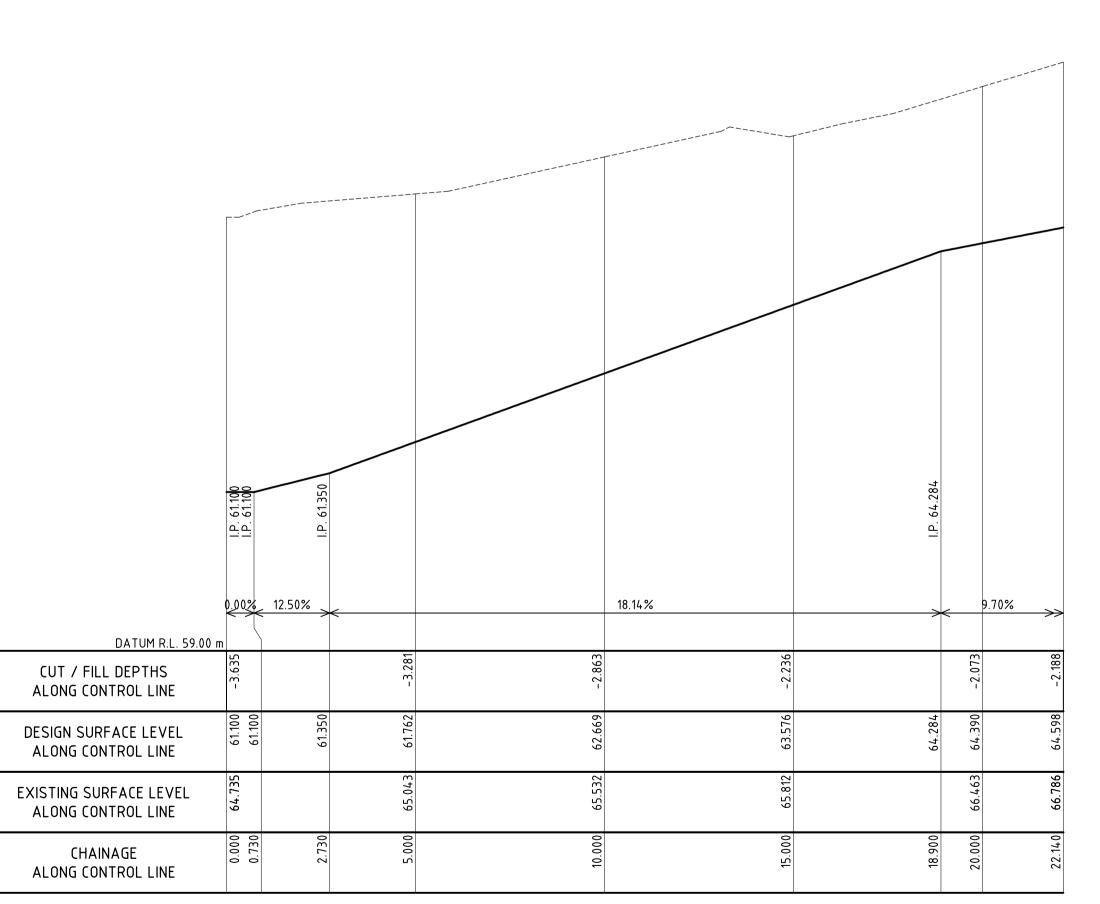
NO.70 JOHN WHITEWAY DRIVE, GOSFORD DRIVEWAY LONGITUDINAL SECTIONS - SHEET 1

STATUS DEVELOPMENT APPLICATION DRAWING No. 01328\_802 REVISION 01

NOT FOR CONSTRUCTION 1.00% -5.89% 0.00% DATUM R.L. 62.00 m CUT / FILL DEPTHS ALONG CONTROL LINE DESIGN SURFACE LEVEL ALONG CONTROL LINE

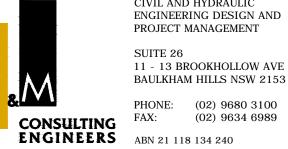
### LONGITUDINAL SECTION ALONG RAMP UP CONTROL

SCALE (V) 1:50 (H) 1:100

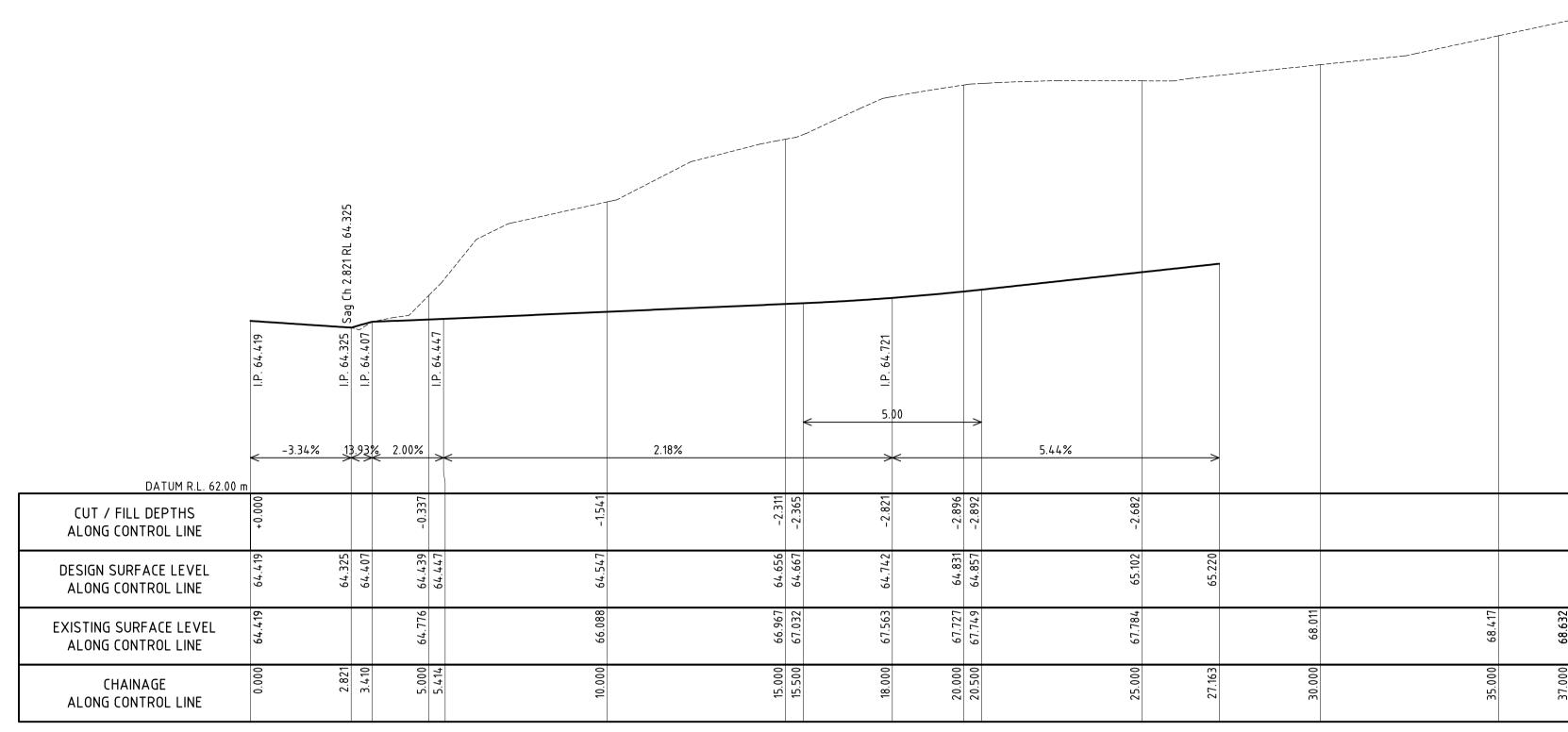


### LONGITUDINAL SECTION ALONG RAMP BASEMENT

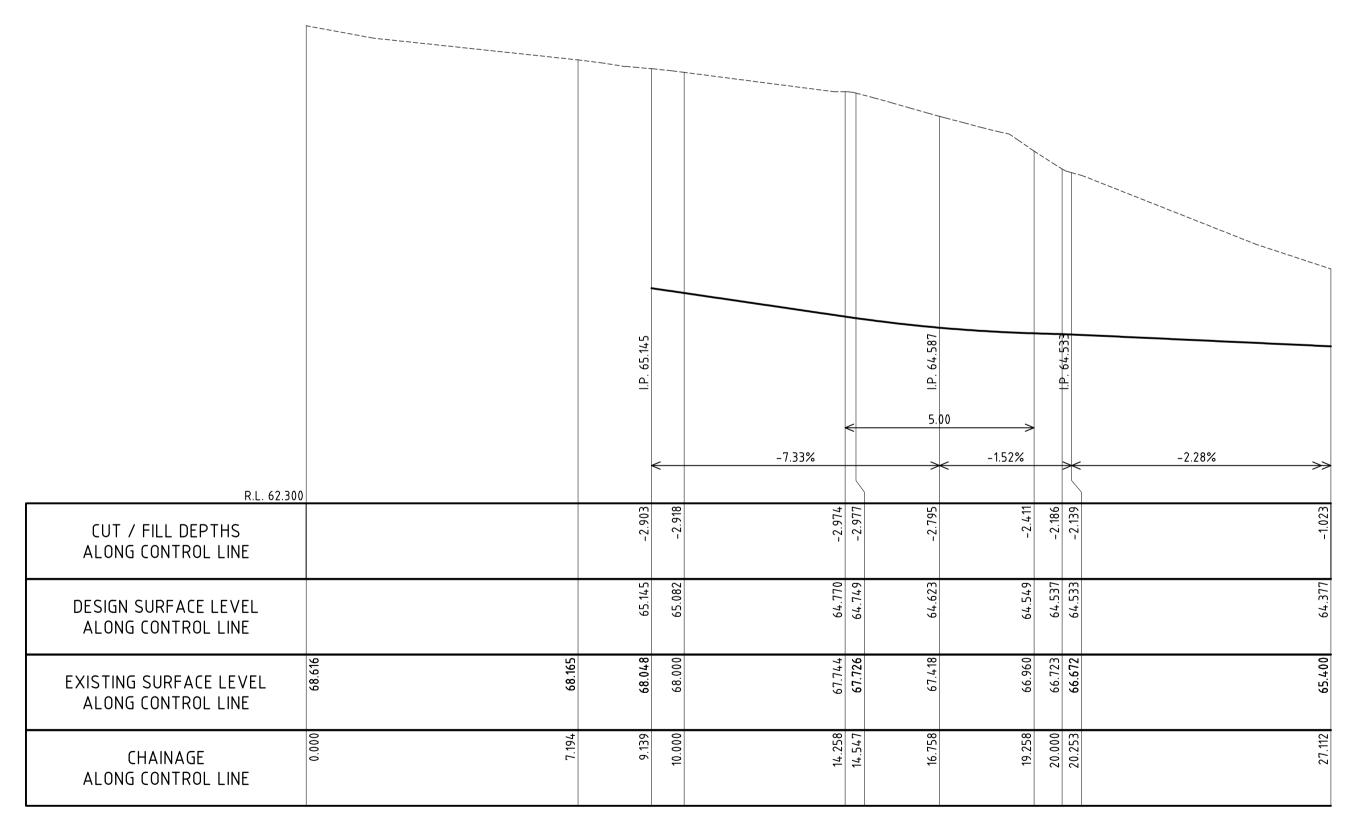
SCALE (V) 1:50 (H) 1:100



03 W.W. 27/01/15 A.M. 27/01/15 ISSUE TO COUNCIL FOR DEVELOPMENT APPLICATION 02 W.W. 16/01/15 16/01/15 | PRELIMINARY ISSUE 17/12/14 PRELIMINARY ISSUE 01 W.W. 17/12/14 DATE DESCRIPTION



### LONGITUDINAL SECTION ALONG KR2 CONTROL SCALE (V) 1:50 (H) 1:100



LONGITUDINAL SECTION ALONG KR4 CONTROL SCALE (V) 1:50 (H) 1:100



CIVIL AND HYDRAULIC ENGINEERING DESIGN A PROJECT MANAGEMENT SUITE 26 11 - 13 BROOKHOLLOW BAULKHAM HILLS NSW 2

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ľΤ	VERIFIED
W AVE V 2153	DRAWN
3100 6989	© THIS DRAW!

GNED	W. WEBB	DATE	27/01/15	
FIED	A. MANCONE	DATE	27/01/15	
WN	J. CHOI	SCALE @ A1	AS NOTED	
IIS DRA	WING AND DESIGN IS THE COPYRI	IGHT OF C&M CO	ONSULTING ENGINEERS PTY.	

NO.70 JOHN WHITEWAY DRIVE, GOSFORD DRIVEWAY LONGITUDINAL SECTIONS - SHEET 2

SCALE 1:100

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STATUS DEVELOPMENT APPLICATION DRAWING No. 01328\_803

REVISION 01

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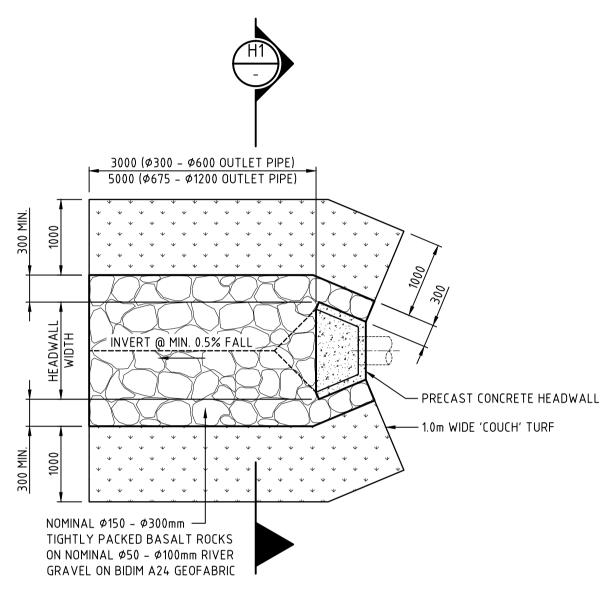
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16/01/15 | PRELIMINARY ISSUE

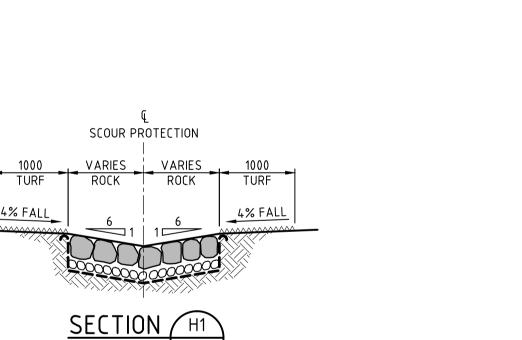
17/12/14 PRELIMINARY ISSUE

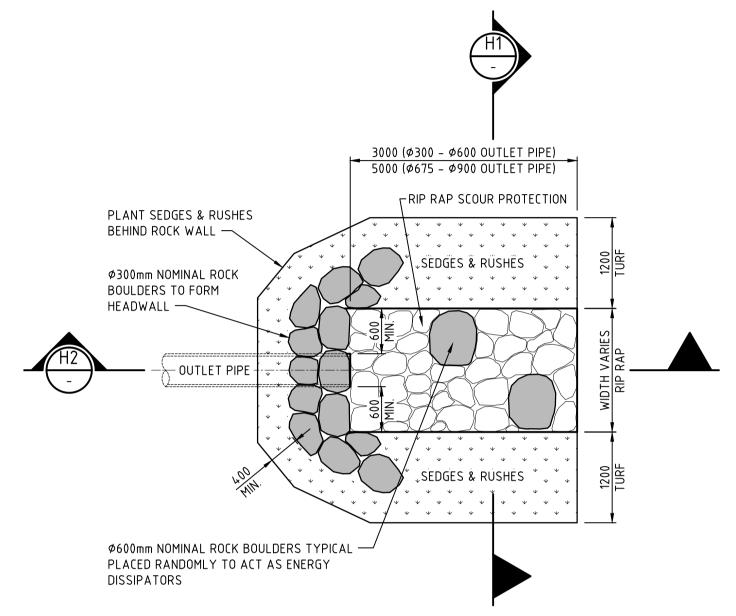
DATE DESCRIPTION

# NOT FOR CONSTRUCTION

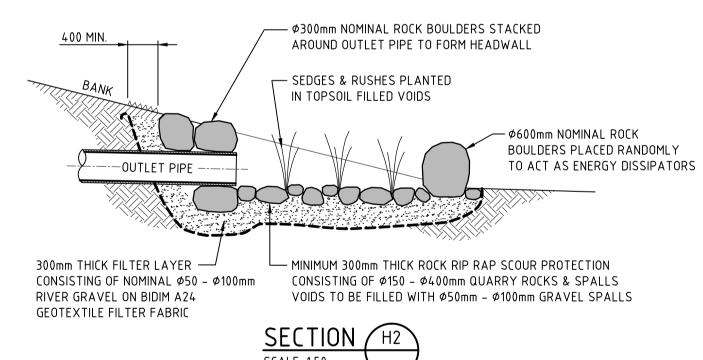


TYPICAL PRECAST CONCRETE HEADWALL WITH SCOUR PROTECTION DETAIL - PLAN SCALE 1:50



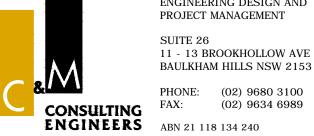


TYPICAL ROCK HEADWALL WITH SCOUR PROTECTION DETAIL - PLAN



	0	1000	2000	3000	4000	5000mm
1000 500			SCALE 1:50	0		

03	W.W.	27/01/15	A.M.	27/01/15	ISSUE TO COUNCIL FOR DEVELOPMENT APPLICATION
02	W.W.	16/01/15	A.M.	16/01/15	PRELIMINARY ISSUE
01	W.W.	17/12/14	A.M.	17/12/14	PRELIMINARY ISSUE
REV.	DES.	DATE	VER.	DATE	DESCRIPTION



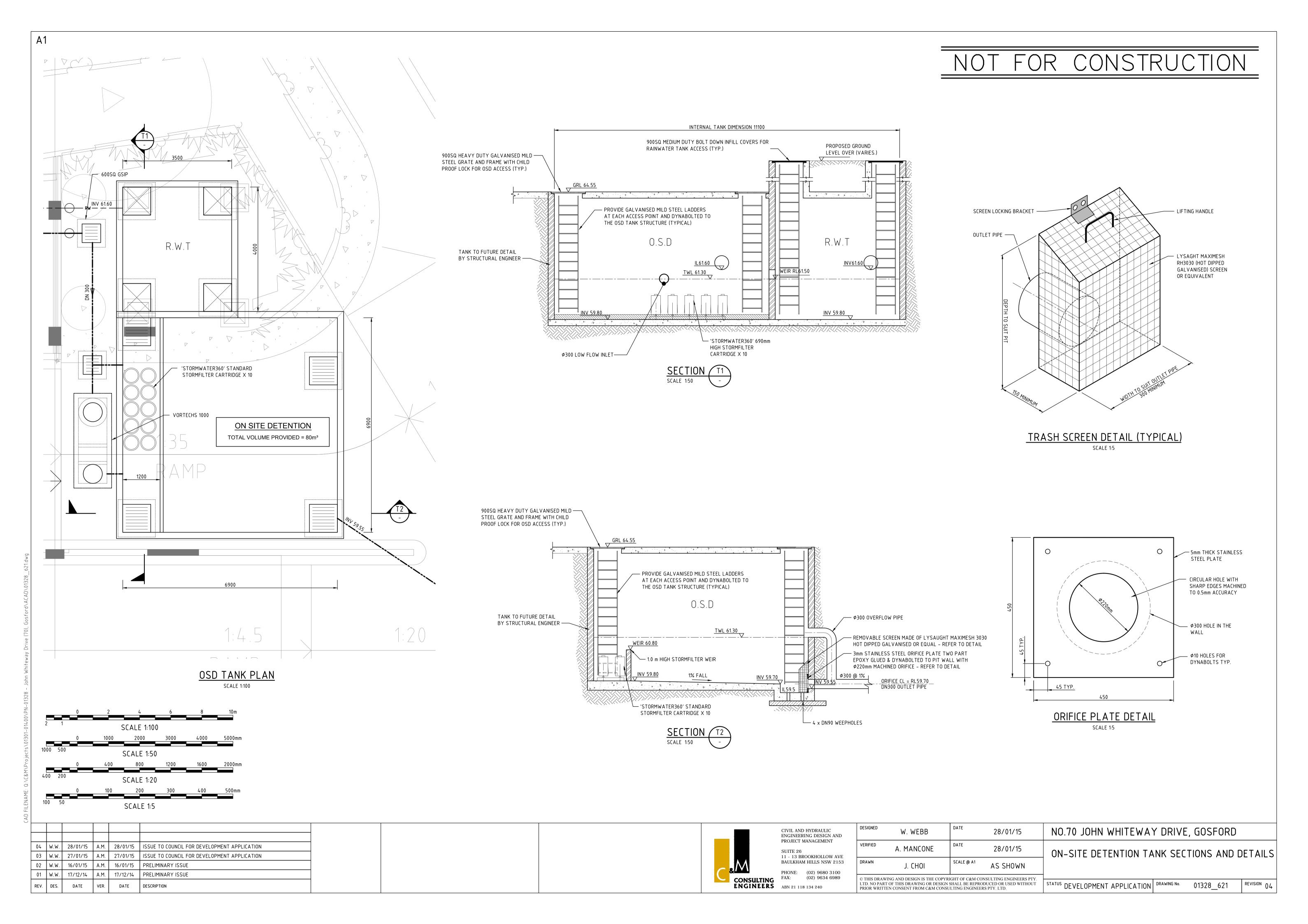
CIVIL AND HYDRAULIC ENGINEERING DESIGN AND PROJECT MANAGEMENT SUITE 26 11 - 13 BROOKHOLLOW AVE BAULKHAM HILLS NSW 2153

DESIGNED	W. WEBB	DATE	27/01/15
VERIFIED	A. MANCONE	DATE	27/01/15
DRAWN	J. CHOI	SCALE @ A1	AS SHOWN
LTD. NO PAR	/ING AND DESIGN IS THE COPYR I OF THIS DRAWING OR DESIGN EN CONSENT FROM C&M CONSU	SHALL BE REPRO	DDUCED OR USED WITHOU

NO.70 JOHN WHITEWAY DRIVE, GOSFORD	
HEADWALL DETAILS	

HEADWALL DETAILS	

STATUS DEVELOPMENT APPLICATION DRAWING No. 01328\_622



#### unit schedule



dem

project name:

Residential development, No.70 John Whiteway Drive, Gosford

project no: 4366-00 date: 27 January 2015 Revision: A

No. of Bed Level Unit No. Internal Area POS Apt. Storage Carpark Total Storage Solar Access Cross Adaptable Storage (sqm) (sqm) (m3) 3HRS IN MID-Ventilation (Y/N) WINTER (m3) (Y/N) (Y/N) 69 17 6.5 5 7.2 5.3 7.5 Ground G.01 3 2 108 13.7 Ν N G.02 Ν 86 10.3 G.03 43 6.4 13.9 96 G.04 2 96 19 5.1 5.9 11 Ν Ν N N G.05 96 19 5.9 11 Ν Ν 5.1 G.06 86 17 5.1 5.9 Ν Ν 11 G.07 5.9 9.2 20 20 Level 1 1.01 6.5 15.7 Ν 108 1.02 83 23 5.3 5.4 10.7 Ν N 1.03 3 108 20 6.3 10 16.3 Ν 1.04 1.05 38 27 5.4 3.8 11.3 9.7 2 80 5.9 N N Y 50 5.9 Ν 1.06 96 19 5.1 8.3 13.4 Ν 5.1 3.8 N N Y 1.07 96 19 9 14.1 N Y Y 28 4.3 Ň 1.08 50 8.1 1.09 78 39 5.1 8.8 13.9 5.4 3.7 1.1 2 80 39 5.9 11.3 N N Y 26 Ν 1.11 46 6.9 10.6 1.12 96 19 5.1 5.9 11 1.13 2 96 19 5.1 16.1 Ν Ν 5.9 17 Ν Ν Ν 1.14 91 5.1 11 1.15 2 Ν 84 20 11 5.1 5.9 69 10.9 5.9 6.8 5 83 108 5.3 6.5 1.17 40 20 Ν Ν 13.3 Level 2 2.01 N N 3 2.02 83 23 5.3 10.3 Ν 20 26 6.3 5.4 9.5 8.2 2.03 3 2 108 15.8 N N 2.04 80 13.6 3.8 9.7 2.05 50 11 5.9 N Y Y N 2.06 2 96 19 5.1 9.3 14.4 Ν 2.07 96 13.2 Ν Ν 19 5.1 8.1 2.08 50 11 3.8 5.7 9.5 Ν 2.09 2 78 29 5.1 6.6 11.7 Ν 2.1 2.11 2 1 5.4 3.7 80 29 5.9 11.3 N N Y 46 9.6 5.9 96 19 5.1 5.1 10.2 Ν 2 2 2 2 2.13 96 19 17 5.1 5.1 10.2 Ν Ν N Y N 91 N 2.14 5.1 5.1 10.2 84 20 5.1 5.1 10.2 2.16 2 86 25 5.4 5.1 10.5 Ν 2.17 83 16 20 5.3 6.5 5.1 9.9 10.4 N Y N N N 3.01 3 108 16.4 Level 3 23 20 5.3 6.3 3.02 2 83 5.3 10.6 N Y 3.03 108 8.5 14.8 2 3.04 5.4 Ν 80 26 8.2 13.6 3.05 50 3.8 3.06 3.07 2 96 96 19 5.1 8.1 13.2 Ν N N 19 N 5.1 5.9 11 50 3.8 6.9 10.7 3.09 2 2 78 80 29 29 5.1 6.4 11 11.5 N N 3.1 5.4 16.4 3.11 46 3.7 5.1 8.8 N Y Y 3.12 2 96 19 5.1 11 16.1 Ν Ν 3.13 96 19 5.1 10 Ν Ν 15.1 3.14 91 17 5.1 5.1 10.2 Ν 3.15 2 84 20 5.1 5.1 10.2 Ν 2 3.16 86 25 5.4 5.1 10.5 N N 3.17 83 16 5.3 10.4 Ν Level 4 4.01 108 20 6.5 8.3 14.8 Ν 4.02 4.03 23 20 5.3 6.3 N N 2 83 6 11.3 3 108 6.9 13.2 4.04 80 26 5.4 8.1 13.5 11 19 4.05 1 50 3.8 5.9 9.7 N N 11 11 96 4.06 5.1 5.9 4.07 Ν 96 19 5.1 5.9 11 29 N N 4.08 50 3.8 5.9 9.7 4.09 78 8.1 13.2 5.1 4.1 80 29 10.5 Ν 5.4 5.1 4.11 46 3.7 8.8 4.12 4.13 5.1 5.1 96 19 5.1 10.2 N N 96 19 10.2 5.1 91 10.2 2 2 2 4.15 4.16 20 25 5.1 5.4 84 5.1 10.2 N N 86 5.1 10.5

**Gosford City Council - DCP Part 4.1 Gosford City Centre Schedule of Compliance** 

 $\operatorname{dem}$ 

Date: 23 Jan 2015

OBJECTIVES	2003 DA CONSENT APPROVAL DESIGN (Total 48 units over 4 storey)	COMPL	2015 NEW DA DESIGN (Total 75 units over 5 storey)	COMPLI ANCE
Part 4.1 – Gosford City Centre				
4.1.2 Building Form				
4.1.2.2 Street Alignment and Street Setbacks				
5 - 6 m range (build to min. 5m and max. 6 landscape setback)	Street setbacks from John Whiteway Drive range from 6 - 12m.	Yes	Street setbacks from John Whiteway Drive range from 5 - 12m.	Yes
4.1.2.3 Street Frontage Heights				
Three to five storey buildings that directly address the street give a sense of enclosure appropriate to Gosford. Controls setting street front heights apply primarily within the commercial core and mixed use, where the street frontage height component of the building is to have a high solid-to-void relationship (refer to Figure 2.3).	The previous design is not a mixed use development and has a street frontage presentation of 2 - 3 storeys along John Whiteway only.  The subject site is not located with commercial core and mixed use zone as identified under Figures 2.3	N/A	The proposed development is not a mixed use development and has a street frontage presentation of 2 - 4 storeys along John Whiteway Drive only.  The subject site is not located with commercial core and mixed use zone as identified under Figures 2.3	N/A
4.1.2.4 Building Depth and Bulk	The average building depth of the proposed	Yes	The average building depth of the	Yes
The maximum footplate sizes and depth of buildings are illustrated in Figure 2.5.	development is approx. 8 - 25m	103	proposed development is approx. 8.5 -	103
No building above 24m in height is to have a building dimension in excess of 45m.	The previous design does not have an effective building height over 24m or a dimension in excess of 45m.		25.5m  The proposed building does not have an effective building height over 24m or a	
At street frontage height levels, and where development is built from street edge to street edge, articulate buildings using atria, light wells and courtyards to improve internal building amenity and achieve	The previous design is comparable in scale with other residential developments in the area. However, it has not been designed in accordance with SEPP65 and does not		dimension in excess of 45m.  The proposed development is comparable in scale with other residential developments in the area. The <b>proposed</b>	

### **Gosford City Council - DCP Part 4.1 Gosford City Centre Schedule of Compliance**

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Date: 23 Jan 2015

objectives  substantial day lighting at every level, and cross ventilation and/or stack effect ventilation.	2003 DA CONSENT APPROVAL DESIGN (Total 48 units over 4 storey) meet the minimum requirement of relevant standards.	COMPLIANCE	2015 NEW DA DESIGN (Total 75 units over 5 storey)  development fully complies with the provisions of SEPP 65.  The depth of each unit has been carefully designed to allow for adequate natural ventilation. In excess of the required 60% of the apartments enjoy cross ventilation. The common corridors on each floor are to be fitted with operable windows/opening therefore further promoting cross ventilation in common areas.	COMPLIANCE
4.1.2.5 Boundary Setbacks and Building Separation				
The minimum building setbacks from the front, side and rear property boundaries are specified in the following table and illustrated in Figures 2.6 to 2.8.  Figure 2.6:  All uses up to 12m height:  Front - Refer to street setback  Side - 3m  Rear - 6m  All uses above 12m height  Front - 3m  Side - 4.5m  Rear - 6m	Street setbacks provided from John Whiteway Drive range from 6 - 12m.  3.5 - 10m side setback and 11 - 19m rear setback provided  15.8 - 26.7 m separation from adjoining residential towers in the Sanctuary on Rumbalara residential apartment block.	Yes	Street setbacks provided from John Whiteway Drive Range from 5 - 12m.  3.5 - 9m side setback and 8 - 16m rear setback provided as per previous DA approval (19775/2003) and well in excess of Gosford DCP requirements.  14.5 - 26 m separation from adjoining residential towers in the Sanctuary on Rumbalara residential apartment block.	Yes

### **Gosford City Council - DCP Part 4.1 Gosford City Centre Schedule of Compliance**

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OBJECTIVES  4.1.2.6 Mixed Use Buildings	2003 DA CONSENT APPROVAL DESIGN (Total 48 units over 4 storey)	COMPL	2015 NEW DA DESIGN (Total 75 units over 5 storey)	COMPLI
Minimum floor to ceiling heights 2.7 metres for residential.  Locate clearly demarcated residential entries directly from the public street  Provide security access controls to all entrances into private areas, including carparks and internal courtyards.  Provide safe pedestrian routes through the site, where required.  Front buildings onto major streets with active uses.  Avoid the use of blank building walls at the ground level.	The previous design was not a mixed use development  The minimum floor-to-floor height was 2.9m with 2.4m for ceiling height in all habitable rooms which is not in accordance with SEPP 65 provisions.  The entries of the proposed development are accessed directly off the primary pedestrian accessway which is open, visible, but only Lift coreNo.1 has been designed fully accessible.	No	The proposed development is not a mixed use development  The proposed minimum floor-to-floor height of 3.05m enables the SEPP 65 recommended 2.7m minimum for ceiling height in all habitable rooms to be achieved.  The entries of the proposed development are accessed directly off the primary pedestrian accessway which is open, visible and fully accessible.  The pedestrian pathway through the site is easy for visitors to orientate themselves. The view(s) from the lift lobbies will also enable the visitor to orientate themselves within the development and surrounding context.	Yes
4.1.2.7 Site Cover and Deep Soil Zones  The deep soil zone shall comprise no less than 15% of the total site area.  Where deep soil zones are provided, they must accommodate existing mature trees as well as allowing for the planting of trees/shrubs that will grow to be mature plants.	Approx. 32.5% of site area provided for deep soil planting.	Yes	Approx. 30% of site area provided for deep soil planting.  Approx. 37% of site area is occupied by building footprint. (Less than 50% site coverage)	Yes

### **Gosford City Council - DCP Part 4.1 Gosford City Centre Schedule of Compliance**



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OBJECTIVES	2003 DA CONSENT APPROVAL DESIGN (Total 48 units over 4 storey)	COMPL IANCE	2015 NEW DA DESIGN (Total 75 units over 5 storey)	COMPLI ANCE
No structures, works or excavations that may restrict vegetation growth are permitted in this zone				
4.1.2.8 Landscape Design				
Landscaped areas are to be irrigated with recycled water.	A detailed landscape plan was formulated as part of the last approval.	Yes	A detailed landscape plan forms part of the DA application.	Yes
Remnant vegetation must be maintained throughout the site wherever practicable.			The landscape vision for the site includes:  - Provision of private, communal and public open spaces which are	
A long-term landscape concept plan must be provided for all landscaped areas, in particular the deep soil landscape zone.			clearly delineated through the use of low height plant massing, fences / balustrades and varying	
The plan must outline how landscaped areas are to be maintained for the life of the development.			site levels.  - Incorporate small to medium sized trees and landscaping within public and communal areas.	
			<ul> <li>Provide a mixed plant palette of indigenous trees, small courtyard landscaping and medium scaled feature plants to enhance the streetscape character.</li> </ul>	
			<ul> <li>Use of onsite water re-use tanks for irrigation of landscape areas.</li> </ul>	
4.1.2.9 Planting on Structures				
Areas with planting on structures are to be irrigated with recycled water.	Incorporation of a mix of native and exotic vegetation to contribute to	Yes	Incorporation of a mix of native     and exotic vegetation to     contribute to biodiversity and	Yes

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# **Gosford City Council - DCP Part 4.1 Gosford City Centre Schedule of Compliance**



OBJECTIVES	2003 DA CONSENT APPROVAL DESIGN (Total 48 units over 4 storey)	COMPL IANCE	2015 NEW DA DESIGN (Total 75 units over 5 storey)	COMPLI ANCE
Design for optimum conditions for plant growth.  Design planters to support the appropriate soil depth and plant selection.  Increase minimum soil depths  Provide sufficient soil depth and area to allow for plant establishment and growth	biodiversity and solar performance.  - Limited use of impermeable surfaces to allow for infiltration of rainwater.		solar performance.  - Selection of drought tolerant indigenous, native and exotic plant species to minimise water use on the site.  - Limited use of impermeable surfaces to allow for infiltration of rainwater.	
4.1.2.10 Sun Access Planes and View Corridors  Significant views to be protected are illustrated in Figure 2.14.  4.1.2 Pedestrian Amenity	No significant view lost as illustrated in Figure 2.14.	Yes	No significant view lost as illustrated in Figure 2.14.  Refer to Visual Impact Assessment report for details.	Yes
4.1.3.2 Permeability  Through site links are to be provided as shown in Figure 3.1. Where possible, existing dead end lanes are to be extended through to the next street as redevelopment occurs  New through site links should be connected with existing and proposed through block lanes, shared zones, arcades and pedestrian ways and opposite other through site links.  Existing publicly and privately owned links are to be retained	No through site link is proposed.  The primary vehicular access to the basement carparks is via the new side street, Georgiana Terrace, a 20m wide road reserve.	Yes	No through site link is proposed.  The primary vehicular access to the basement carparks is via the new side street, Georgiana Terrace, a 20m wide road reserve.	Yes

#### Gosford City Council - DCP Part 4.1 Gosford City Centre Schedule of Compliance



Date: 23 Jan 2015

OBJECTIVES	2003 DA CONSENT APPROVAL DESIGN (Total 48 units over 4 storey)	COMPL	2015 NEW DA DESIGN (Total 75 units over 5 storey)	COMPLI
4.1.3.3 Active Street Frontages and Address				
Active street fronts are required on ground level of all areas identified in Figure 3.4	The subject site does not located within the identified zone.	N/A	The subject site does not located within the identified zone.	N/A
4.1.3.4 Front Fences				
Front fences include fences to the primary and secondary street frontages, and side boundary fences forward of the building alignment.	A max 1.2m height timber fence will be provided along the street boundary.	Yes	A max 1.2m height timber fence will be provided along the street boundary.	Yes
Front fences must be a maximum weighted average height of 1.2m above street level.				
Notwithstanding the above, the maximum height of any portion of a front fence must not exceed 1.4m above street level				
The use of varied materials is preferred. The use of sheet metal is not permitted as a front fence material.				
4.1.3.5 Safety and Security				
Address 'Safer-by-Design' principles to the design of public and private domain, and in all developments	The entire development adopts passive surveillance techniques for safety with apartments overlooking communal and	Yes	The entire development adopts passive surveillance techniques for safety with apartments overlooking communal and	Yes
Ensure that the building design allows for passive surveillance of public and communal spaces, access	public open spaces. The pedestrian footpaths allow passive surveillance		public open spaces. The pedestrian footpaths allow passive surveillance	
ways, entries and driveways.  Maximise the number of residential 'front door' entries at ground level.	between apartments and pedestrians. Each section of the development has its own lobby which acts as the primary access		between apartments and pedestrians.  Each section of the development has its own lobby which acts as the primary	
Provide entrances which are in visually prominent positions and which are easily identifiable, with visible	point and are also visible from the street, again promoting passive surveillance between residents and passers-by. Design		access point and are also visible from the street, again promoting passive surveillance between residents and	

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### **Gosford City Council - DCP Part 4.1 Gosford City Centre Schedule of Compliance**

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OBJECTIVES	2003 DA CONSENT APPROVAL DESIGN (Total 48 units over 4 storey)	COMPL	2015 NEW DA DESIGN (Total 75 units over 5 storey)	COMPLI ANCE
numbering.  Clearly define the development boundary to strengthen the transition between public, semi-private and private space. This can be actual or symbolic and can include landscaping, fences, change in paving material, etc provide adequate lighting of all pedestrian access ways, parking areas and building entries.  Provide clear lines of sight and well-lit routes throughout the development  Where a pedestrian pathway is provided from the street, allow for casual surveillance of the pathway	<ul> <li>and landscaping elements have been introduced to promote safety:</li> <li>Use of appropriate lighting for pedestrian safety,</li> <li>Defining clear public/private boundaries,</li> <li>Living areas/balconies to overlook pedestrian areas and public open space for passive surveillance,</li> <li>Use of appropriate plantings to discourage concealment or "blind areas",</li> <li>Orientating entrances towards the street for street activation and safety,</li> <li>Providing direct access from car parks to lift lobbies for residents.</li> </ul>		<ul> <li>passers-by. Design and landscaping elements have been introduced to promote safety:</li> <li>Use of appropriate lighting for pedestrian safety,</li> <li>Defining clear public/private boundaries,</li> <li>Living areas/balconies to overlook pedestrian areas and public open space for passive surveillance,</li> <li>Use of appropriate plantings to discourage concealment or "blind areas",</li> <li>Orientating entrances towards the street for street activation and safety,</li> <li>Providing direct access from car parks to lift lobbies for residents.</li> </ul>	
4.1.3.6 Awnings  To provide chalter for public streets where most	No retail or commercial on the ground floor	N/A	No retail or commercial on the ground	N/A
To provide shelter for public streets where most pedestrian activity occurs.	along the main street.		floor along the main street.	
To address the streetscape by providing a consistent street frontage in the city centre.	No awning structure is proposed.		No awning structure is proposed.	
4.1.3.7 Vehicle Footpath Crossings				
No additional vehicle entry points will be permitted into the parking or service areas of development along those	The primary vehicular access to the basement carparks is via the new side	Yes	The primary vehicular access to the basement carparks is via the new side	Yes

# **Gosford City Council - DCP Part 4.1 Gosford City Centre Schedule of Compliance**



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objectives  streets identified in Figure 3.8 which are significant pedestrian circulation routes.  In all other areas, one vehicle access point only will be generally permitted.  Where practicable, vehicle access is to be from lanes and minor streets rather than primary street fronts or streets with major pedestrian activity.	2003 DA CONSENT APPROVAL DESIGN (Total 48 units over 4 storey) street, Georgiana Terrace for residents and visitors.	COMPLIANCE	2015 NEW DA DESIGN (Total 75 units over 5 storey) street, Georgiana Terrace for residents and visitors.	COMPLI
4.1.3.8 Pedestrian Overpasses and Underpasses	No overpass or underpass is proposed.	N/A	No overpass or underpass is proposed.	N/A
4.1.3.9 Building Exteriors				
Adjoining buildings (particularly heritage buildings) are to be considered in the design of new buildings Balconies and terraces should be provided.  Articulate façades so that they address the street and add visual interest  External walls should be constructed of high quality and durable materials and finishes with 'self-cleaning' attributes	The previous design was consistent with the rest of the development within the Gosford Town Centre and adjoining apartment towers. It respects and responds to the scale and character of the surround built form context.  The building facades are articulated and broken down to a scale more appropriate to their residential use; different materials are	Yes	The proposed development is consistent with the rest of the development within the Gosford Town Centre and adjoining apartment towers. It respects and responds to the scale and character of the surround built form context. However, whilst complementary in scale the buildings are articulated to create smaller scale components more appropriate for a residential use.	Yes
Finishes with high maintenance costs, those susceptible to degradation or corrosion from a coastal or industrial environment or finishes that result in unacceptable amenity impacts are to be avoided.  To assist articulation and visual interest, expanses of any single material is to be avoided  Limit sections of opaque or blank walls greater than 4m	proposed, including split-face block wall, rendered blocks and translucent glass balustrades.		Each of the units, regardless of size, has been provided with a usable balcony. This ensures that the residents are able to enjoy the outdoor lifestyle and the interface between the inside and outside is seamless.  The proposed design achieves a high degree of articulation in its building form	

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### **Gosford City Council - DCP Part 4.1 Gosford City Centre Schedule of Compliance**



OBJECTIVES	2003 DA CONSENT APPROVAL DESIGN (Total 48 units over 4 storey)	COMPL	2015 NEW DA DESIGN (Total 75 units over 5 storey)	COMPLI ANCE
in length along the ground floor to a maximum of 30% of the building frontage  The design of roof plant rooms and lift overruns are to be integrated into the overall architecture of the building			and amenity for residents.  The building facades are articulated and broken down to a scale more appropriate to their residential use; different materials	
			are proposed, including split-face block wall, rendered blocks and translucent glass balustrades.	
4.1.3.10 Corner Treatments	The subject site is not a corner site	N/A	The subject site is not a corner site	N/A
4.1.3.11 Public Artworks	No public artwork is proposed	N/A	No public artwork is proposed	N/A
4.1.3.12 Advertising and Signage	No advertising sign is proposed.	N/A	No advertising sign is proposed.	N/A
4.1.4 Access, Parking and Servicing				
4.1.4.2 Pedestrian Access and Mobility				
Main building entry points should be clearly visible from primary street frontages  The design of facilities for disabled persons must	The entries to each lobby are accessed directly off the primary pedestrian accessway. However, only Lift core No.1 has been designed fully accessible.	No	The entries to each lobby are accessed directly off the primary pedestrian accessway. These entries have been carefully sited to ensure that the levels are	Yes
comply with the relevant Australian Standard and the Disability Discrimination Act 1992  Barrier free access is to be provided to not less than	No adaptable units have been allowed in the previous design as there was no requirement to provide adaptable units at	No	integrated with the street and pedestrian pathway, thus ensuring accessibility for the disabled or users of wheelchairs and	
20% of dwellings in each development and associated common areas.	the time of the original consent.  The proposed design achieves a high	Yes	the like.  15% of the units are designed as	
The development must provide at least one main pedestrian entrance with convenient barrier free access	degree of articulation in its building form and amenity for residents.	162	adaptable units in compliance with AS1428.1-2009 and AS4299, which provide excellent long term flexibility to	

### **Gosford City Council - DCP Part 4.1 Gosford City Centre Schedule of Compliance**

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Date: 23 Jan 2015

OBJECTIVES	2003 DA CONSENT APPROVAL DESIGN (Total 48 units over 4 storey)	COMPL	2015 NEW DA DESIGN (Total 75 units over 5 storey)	COMPLI ANCE
to at least the ground floor.  The development must provide continuous access paths of travel from all public roads and spaces as well as unimpeded internal access.  Pedestrian access ways, entry paths and lobbies must use durable materials commensurate with the standard of the adjoining public domain (street) with appropriate slip resistant materials, tactile surfaces and contrasting colours.	All internal common corridors and entries have been designed with good lines of site, visual links to surrounding outdoor spaces and communal/public spaces so as to facilitate resident safety and promote visual and communal interaction.		cater for the changing needs of residents.  The internal building and circulation layout has been derived through careful analysis of the site's attributes and specific solar access and natural ventilation provisions.  The proposed design achieves a high degree of articulation in its building form and amenity for residents.  All internal common corridors and entries have been designed with good lines of site, visual links to surrounding outdoor spaces and communal/public spaces so as to facilitate resident safety and promote visual and communal interaction.	
4.1.4.3 Vehicular Driveways and Manoeuvring Areas				
Vehicle access is to be integrated into the building design so as to be visually recessive  All vehicles must be able to enter and leave the site in a forward direction without the need to make more than a three point turn.	The primary vehicular access to the basement carparks is via the new side street, Georgiana Terrace for residents and visitors.	Yes	The primary vehicular access to the basement carparks is via the new side street, Georgiana Terrace for residents and visitors.  All parking spaces dimension, driveway	Yes
Driveway widths, car parking space dimension must comply with the relevant Australian Standards.			design, servicing vehicle manoeuvring are designed generally in accordance with AS. Refer to traffic consultant's report for	
Driveway grades, vehicular ramp width/ grades and passing bays must be in accordance with the relevant Australian Standard			details.	
Access ways to underground parking should be sited to				

### **Gosford City Council - DCP Part 4.1 Gosford City Centre Schedule of Compliance**

Date: 23 Jan 2015 dem

OBJECTIVES	2003 DA CONSENT APPROVAL DESIGN (Total 48 units over 4 storey)	COMPL IANCE	2015 NEW DA DESIGN (Total 75 units over 5 storey)	COMPLI ANCE
minimise noise impacts on adjacent habitable rooms, particularly bedrooms.				
For residential development in the General Residential zone, use semi-pervious materials for all uncovered parts of driveways and parking areas to assist with stormwater infiltration.				
4.1.4.4 On-Site Parking				
Except as separately provided for in the Gosford Local Environmental Plan 2014, on-site vehicle and bicycle parking is to be provided in accordance with Table 4.1 of this chapter.	There were a total of 77 car parking spaces provided for residents and visitors.  No designated bicycle store and motorcycle parking spaces were provided in	Yes	The proposed car park is split over one and half level. A total of 106car parking spaces are provided for residents and visitors.	Yes
1 Bed = 1 car space/dwelling	accordance with relevant codes		Designated bicycle store and motorcycle	Yes
2 Bed = 1.2 car spaces/dwelling	requirements. Table 4.1		parking spaces are provided in accordance with relevant codes	
3 Bed = 1.5 car spaces/dwelling			requirements as follow,	
Visitor = 0.2 spaces/dwelling				
Motorcycle = 1 space/15 dwellings			1 Bed = 13 car spaces	
Bicycle = 1 resident's space/3 dwellings + 1 visitor space/12 dwellings			2 Bed = 62.4 car spaces	
Car parking is to be provided wholly underground.			3 Bed = 15 car spaces	
Car parking and associated internal manoeuvring areas provided over and beyond that required by this chapter and the Gosford Local Environmental Plan 2014 is to be calculated towards gross floor area.			Visitor = 15 spaces  Motorcycle = 5 space  Bicycle = 25 resident's spaces + 7 visitor spaces	
On-site parking must meet the relevant Australian				

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OBJECTIVES	2003 DA CONSENT APPROVAL DESIGN (Total 48 units over 4 storey)	COMPL IANCE	2015 NEW DA DESIGN (Total 75 units over 5 storey)	COMPLI ANCE
Standard (AS 2890.1 2004 – Parking facilities, or as amended).				
To accommodate people with disabilities, provide minimum of 2 spaces per development, as an appropriately designated and signed disabled parking space.				
Uncovered on-site parking areas, including the top of front building setbacks, are prohibited.				
Bicycle parking is to be in secure and accessible locations, with weather protection.				
4.1.4.5 Site Facilities and Services				
Provide mail boxes for residential building in one accessible location adjacent to the main entrance to the	Mail boxes were proposed to provide within each lobby cores area	Yes	Mail boxes will be provided within each lobby cores area	Yes
development.  Locate satellite dish and telecommunication antennae,	Master Antenna was proposed for the proposed development		Master Antenna will be provided for the proposed development	
air conditioning units, ventilation stacks, integrated into the roof-scape design and in a position where such facilities will not become a skyline feature at the top of any building, and adequately setback from the perimeter wall or roof edge of buildings.	Individual garbage room was provided next to each core in the car park. Separate bins for recycling and general waste rubbish will be provided. Building management will arrange bulk bins to be picked up from one		Individual garbage room is provided next to each core in the car park. Separate bins for recycling and general waste rubbish will be provided. Building management will arrange bulk bins to be	
A master antenna must be provided for residential apartment buildings.	single point of pickup/holding area for weekly collection on the side street		picked up from one single point of pickup/holding area for weekly collection	
For waste storage and handling area is to be enclosed and located within a basement or enclosed carpark for residential flat buildings,			on the side street	

### **Gosford City Council - DCP Part 4.1 Gosford City Centre Schedule of Compliance**



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OBJECTIVES	2003 DA CONSENT APPROVAL DESIGN (Total 48 units over 4 storey)	COMPL	2015 NEW DA DESIGN (Total 75 units over 5 storey)	COMPLI ANCE
Provide adequate space within any new development for the loading and unloading of service/delivery vehicles.				
Preferably locate service access off rear lanes, side streets or rights of way.				
4.1.5 Environmental Management				
4.1.5.2 Energy Efficiency and Conservation				
New dwellings, including multi-unit development within a mixed use building and serviced apartments intended or capable of being strata titled, are to demonstrate compliance with State Environmental Planning Policy – Building Sustainability Index (BASIX).	No details provided	No	Refer to Basix Certificates	Yes
4.1.5.3 Water Conservation				
New dwellings, or developments which contain a residential component within a mixed use building or serviced apartments intended or capable of being strata titled, are to demonstrate compliance with State Environmental Planning Policy - Building Sustainability Index (BASIX	No details provided	No	Refer to Basix Certificates and stormwater management reports for details	Yes
4.1.5.4 Reflectivity				
New buildings and facades should not result in glare that causes discomfort or threatens safety of pedestrians or drivers.	The building facades were articulated with different materials proposed, including split-face block wall, rendered blocks and	Yes	The building facades are articulated with different materials proposed, including split-face block wall, rendered blocks and	Yes

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# **Gosford City Council - DCP Part 4.1 Gosford City Centre Schedule of Compliance**



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Visible light reflectivity from building materials used on the facades of new buildings should not exceed 20%.	translucent glass balustrades.  The final selection of the glass will not result in glare or any other reflective issues		translucent glass balustrades.  The final selection of the glass will not result in glare or any other reflective issues	
4.1.5.5 Wind Mitigation  To ensure public safety and comfort, the maximum wind criteria are to be met by new buildings	Appropriated landscaping measures were incorporated with introduction of small to medium sized trees and landscaping within communal areas and around the building footprint to break down the wind tunnel effects	Yes	Appropriated landscaping measures are incorporated with introduction of small to medium sized trees and landscaping within communal areas and around the building footprint to break down the wind tunnel effects	Yes
All development is to provide for storage of waste bins on-site in an area of sufficient size to accommodate waste generated by the development.  The storage area must be located in a position which is, visibly unobtrusive from the street and compatible with the design of the main building, easily accessible to dwelling occupants, accessible to waste collection vehicles and operators ,has water and drainage facilities for cleaning and maintenance; and does not immediately adjoin private open space, windows or clothes drying areas.	Individual garbage room is provided next to each core in the car park and has been designed to house adequate number of bins to serve each residential core.  Separate bins for recycling rubbish were proposed within each garbage room.  Building management will arrange bins to be pick up from one single point of pickup/holding area for weekly collection on the side street.	Yes	Individual garbage room is provided next to each core in the car park and has been designed to house adequate number of bins to serve each residential core.  Separate bins for recycling rubbish will be provided within each garbage room.  Building management will arrange bins to be pick up from one single point of pickup/holding area for weekly collection at the side street.	Yes
Provision is to be made to allow collection of the waste either directly from the waste storage area, or by transfer to a waste collection point			Refer to waste management plan for details.	

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OBJECTIVES	2003 DA CONSENT APPROVAL DESIGN (Total 48 units over 4 storey)	COMPL	2015 NEW DA DESIGN (Total 75 units over 5 storey)	COMPLI ANCE
4.1.5.7 Noise and Vibration				
Development should be designed to minimise the potential for offensive noise.  Noise sensitive developments should be designed to reasonably protect the proposed development from noise sources such as arterial roads, railway lines, sporting complexes and entertainment venues.	The site is located on the edge of Gosford Town Centre and does not locate adjacent to any noise sources such as arterial roads, railway lines, sporting complexes and entertainment venues.  Common wall and party walls will be constructed to comply with the minimum acoustic standard for residential development.	Yes	The site is located on the edge of Gosford Town Centre and does not locate adjacent to any noise sources such as arterial roads, railway lines, sporting complexes and entertainment venues.  Common wall and party walls will be constructed to comply with the minimum acoustic standard for residential development.	Yes

4.1.6 Residential Development Controls										
4.1.6.2 Housing Choice and Mix										
To achieve a mix of living styles, sizes and layouts within each residential development, comply with the following mix and size:	propo	There were a total of 48 units in the proposed development.  The unit mix as follow			There are a total of 75 units in proposed development.  The unit mix as follow			n the	Ye	
provide a mix of bed-sitter/studio, one bedroom, two bedroom and three bedroom apartments, bed-sitter	No. of Beds	Area (m²)	No. of Units	% of total		No. of Beds	Area (m²)	No. of Units	% of total	
apartments and one bedroom apartments must not be greater than 25% and not less than 10% of the total mix of apartments within each development, two bedroom	1B	N/A	0 34	0% 70.8%		1B	Min. 50m2	13	17.3 %	
apartments within each development, two bedroom apartments are not to be more than 75% of the total mix of apartments within each development, and for smaller	2B 3B	Min. 86m2 Min. 117m2	14	29.2%		2B	Min. 79m2	52	69.3 %	
developments (less than six dwellings) achieve a mix	.No units	have designed	I to be ada	aptable				1		

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OBJECTIVES	2003 DA CONSENT APPROVAL DESIGN (Total 48 units over 4 storey)	COMPL IANCE	2015 NEW DA DESIGN (Total 75 units over 5 storey)			COMPLI ANCE	
appropriate to the locality.			3B	Min. 108m2	10	13.4	
Where possible, adaptable dwellings shall be located on the ground floor, for ease of access. Dwellings located above the ground level of a building may only be provided as adaptable dwellings where lift access is available within the building. The lift access must provide access from the basement to allow access for people with disabilities.			.15% of the units are designed as adaptable units in compliance with AS1428.1-2009 and AS4299. Refer to adaptable layout and access consultant's report for details.				
4.1.6.3 Storage							
Storage areas are to be in addition to kitchen cupboards and bedroom wardrobes. Storage areas are to be in accordance with the following average rates:  7.5m³ for studio and one bedroom units,  10m³ for two bedroom units, and  12.5m³ for three plus bedroom units.  At least 50% of the required storage areas are to be provided within the dwelling.	Designated storage space were provided within each unit and in the basement car park.	Yes	following unit and in   1-bed  2-bed	osed developm storage per ap n the basemen droom 7.5m3 droom 10m3 droom 12.5m3	artment w		Yes
4.1.6.4 Multi Dwelling Housing	Not Applicable. The proposed development does fall under the requirements of SEPP 65	N/A	developm	cable. The property nent does fall u ents of SEPP 6	nder the		N/A
4.1.7 Controls for Special Areas							
4.1.7.4 Special Area - John Whiteway Drive Precinct							

### **Gosford City Council - DCP Part 4.1 Gosford City Centre Schedule of Compliance**



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In the John Whiteway Drive Precinct, the opportunity for high-rise residential development has largely arisen as a result of the existence of building platforms created from earlier sandstone quarrying. This precinct constitutes a unique site in which standardised controls are inappropriate considering the diversity of site constraints that affect various allotments. Where development proposals seek to vary numerical standards, the design principles and case for varying the control involved must be clearly documented in the development application.  The development controls specified below seek to maximise development potential within clearly identified development parameters acknowledging the inherent biophysical constraints of the precinct as a whole and the site specific requirements of individual allotments.  • Heights of Buildings  Lot 2 DP 778384 = RL 77m AHD  • Buildable Area  The buildable area of each lot is illustrated in Figure 7.2 and coincides with the Restriction as to User on the title of the relevant lots under the	The previous design respects and responds to the scale of the surrounding buildings.  The previous design has 3 - 4storeys in height overall. Due to the land falls away and along John Whiteway Drive, the development presents only 2-3 storey in height along the public western frontage of the site, 3-4 storeys at the northern section of the site and 4 storeys appearance on the bushland cliff side frontage of the site (South-East).  The previous design was not designed in accordance with SEPP 65 and relevant controls to maximise solar access and cross ventilation opportunities. The building footprint has extended beyond the buildable area identified and into the area indicated as having 0m height limit as stated in Gosford Local Environmental Plan 2014.  The previous design has been sited with appropriate and sufficient setback from the street to create a built environment that is	Yes	The proposed development respects and responds to the scale of the surrounding buildings. A 3 - 4 storey development approval remains valid at the subject site and the new proposed DA is now to seek one additional storey in height.  The proposed development has 4 - 5 storeys in height overall. Due to the land falls away and along John Whiteway Drive, the development presents only 3-4 storey in height along the public western frontage of the site, 4-5 storeys at the northern section of the site and 5 storeys appearance on the bushland cliff side frontage of the site (South-East).  The proposed development has utilised a similar footprint of the previous approved DA and maintain sufficient setback from all sides.  The proposal maintains the required solar access to the apartments living and outdoor spaces while providing for the required solar access to the common	No
Conveyancing Act, 1919. The Restriction as to User has application only where the restriction is not inconsistent with the provisions of the relevant planning instrument.  Built form	cohesive, unified, composed, and comfortable in scale. There is careful layering and transition from the public to private zones by use of landscaping, scale and material without compromising the overall integration of the development.		open space.  The development will primarily present itself as 2-4 storeys from the main public view corridors and is approx.  4.2m over the height limit control (RL 77).	No

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The built form should be designed and located to provide maximum orientation of future dwellings to sunlight, views, vistas and areas of public open space.  Design should have special consideration for the scale, bulk and articulation of built form presented to the streetscape. Buildings adjacent to the public open space should be orientated to take advantage of the visual quality of the open space through views from internal and external living spaces. Where possible living areas within buildings should face the public open space.  Density The residential development potential of the lots is controlled by the FSR provisions of the Gosford Local Environmental Plan 2014	The differentiation between public and private open spaces has been incorporated into the project by way of building setbacks, building level separation, landscape zones at the interface of the public/private realm and selection of materials.  The proposed development is consistent with the rest of the development within the Gosford Town Centre and adjoining apartment towers. It respects and responds to the scale and character of the surround built form context.  The building facades were articulated and broken down to a scale more appropriate to their residential use; different materials are proposed, including split-face block wall, rendered blocks and translucent glass balustrades.  The total FSR was 1.04:1 which complies with the FSR controls established for the site under Gosford LEP 2014.	Yes	The proposed development also extends beyond the buildable area identified and into the area indicated as having 0m height limit as stated in Gosford Local Environmental Plan 2014.  The proposed development has been sited with appropriate and sufficient setback from the street to create a built environment that is cohesive, unified, composed, and comfortable in scale.  There is careful layering and transition from the public to private zones by use of landscaping, scale and material without compromising the overall integration of the development.  The differentiation between public and private open spaces has been incorporated into the project by way of building setbacks, building level separation, landscape zones at the interface of the public/private realm and selection of materials.	
			The proposed development is consistent with the rest of the development within the Gosford Town Centre and adjoining apartment towers. It respects and responds to the scale and character of the surround built form context. However, whilst complementary in scale the	Yes

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# Gosford City Council - DCP Part 4.1 Gosford City Centre Schedule of Compliance



OBJECTIVES	2003 DA CONSENT APPROVAL DESIGN (Total 48 units over 4 storey)	COMPL	2015 NEW DA DESIGN (Total 75 units over 5 storey)	COMPLI ANCE
			buildings are articulated to create smaller scale components more appropriate for a residential use.	
			The building facades are articulated and broken down to a scale more appropriate to their residential use; different materials are proposed, including split-face block wall, rendered blocks and translucent glass balustrades.	Yes
			The depth of each unit has been carefully designed to allow for adequate natural ventilation. In excess of the required 60% of the apartments enjoy cross ventilation. The common corridors on each floor are to be fitted with operable windows/opening therefore further promoting cross ventilation in common areas.	Yes
			The orientation of the apartments maximise solar access. In excess of the required 70% of the apartments enjoy 3 hours of natural sunlight in mid-winter to living areas and balconies/private open spaces.	Yes
			The proposed development seeks an FSR of 1.5:1 which complies with the FSR controls established for the site under Gosford LEP 2014.	

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# **Gosford City Council - DCP Part 4.1 Gosford City Centre Schedule of Compliance**

Date: 23 Jan 2015

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4.1.7.5 Design Excellence				
Good building design should positively contribute to the overall architectural quality of the city and provide buildings appropriate to their context. In some circumstances, this contribution may be as an iconic or landmark building, but more typically it is as a well-mannered building that fits sensitively into the streetscape.	Design excellence provisions were not a requirement at the time of the original consent.		The proposal will be a high quality residential development which complies with the objectives and controls of the Gosford LEP and DCP and full complies with the design excellence provisions stipulated in SEPP 65. It is considered that the proposed development exhibits Design Excellence as discussed in the submitted Design Verification Statement.  Also, refer to SEPP 65 Design Principle Statement for further details.	Yes



No. 70 John Whiteway Drive, Gosford - Residential Development

Perspectives from South

22-01-15 NTS

arsk9001

4366-00

planning, urban design, architecture, landscape architecture, interior design level # 15 help street chalswood new 2087 1: (02) 8966 6000 f: (02) 8966 5111 e sydney@den.com.au







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arsk9004



East Elevation



# No. 70 John Whiteway Drive, Gosford - Residential Development

a: sydney@dem.com.au



West Elevation









Balcony

Balcony awning and Glass balustrade

Color backed glass spandrel panel

### No. 70 John Whiteway Drive, Gosford - Residential Development

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Materials

22-01-15 NTS

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a sydney@dem.com.au





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North Elevation





Color backed glass

spandrel panel







Balcony

Split face block

Steel curve roof

arsk9103

### No. 70 John Whiteway Drive, Gosford - Residential Development

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