### **CIVIL AND DRAINAGE NOTES**

- C1. ALL LEVELS ON STRUCTURAL/CIVIL DRAWINGS ARE TO DATUM NOMINATED BY C18. COVER DETAILS: PROJECT SURVEYOR. REFER SURVEY DRAWINGS FOR EXISTING BOUNDARIES, LEVELS ETC. ALL LEVELS ARE IN METRES. ALL EXISTING LEVELS SHOWN ARE TO BE CONFIRMED ON SITE.
- C2. PAVEMENT LEVELS ARE FINISHED LEVELS THROUGHOUT.
- C3. ANY EXISTING PAVEMENT, KERB AND CHANNEL, KERB OR THE LIKE THAT IS DAMAGED DURING CONSTRUCTION IS TO BE REINSTATED TO ITS ORIGINAL CONDITION AND TO THE SATISFACTION OF THE RELEVANT AUTHORITY PRIOR TO THE COMPLETION OF WORKS.
- C4. ALL EARTH BATTERS ARE TO BE IN THE RATIO OF 1 TO 4 OR LESS UNLESS NOTED OTHERWISE. BATTERS ARE TO BE KEPT A MINIMUM 1 METRE FROM BUILDINGS, ROADS, WALLS AND THE LIKE.
- C5. SUBGRADE PREPARATION:

ALL VEGETATION, TOP SOIL AND FILL MATERIAL SHALL BE REMOVED FROM THE PAVEMENT AREA AND EXTENDING 300mm PAST THE EDGE OF THE PAVEMENT TO EXPOSE THE SUBGRADE MATERIAL AS NOTED IN THE GEOTECHNICAL REPORT. THE SUBGRADE (PRIOR TO ANY FILL OR PAVEMENT BEING PLACED) SHALL BE PROOF ROLLED IN THE PRESENCE OF THE PROJECT GEOTECHNICAL ENGINEER (OR RELEVANT AUTHORITY) AND BE APPROVED TO HAVE A MINIMUM CBR OF 3% UNLESS NOTED OTHERWISE. THE MOISTURE CONTENT OF THE SUBGRADE SHOULD BE BETWEEN 90% AND 120% OF O.M.C.

ANY SOFT SPOTS ENCOUNTED SHALL BE EXCAVATED AND REPLACED WITH COMPACTED FILL IN LAYERS NOT GREATER THAN 150mm THICK TO A MINIMUM DENSITY OF 95% M.M.D.D MEASURED IN ACCORDANCE WITH AS 1289.5.2.1.

THE MATERIAL TO BE USED AS FILL SHALL BE APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. THE CLIENT IS TO BE ADVISED OF ANY VARIATION WORKS RELATING TO SUBGRADE PREPARATION PRIOR TO PROCEEDING WITH ANY REMEDIAL WORKS.

- C6. ALL DRAINAGE. WORKMANSHIP AND MATERIALS TO COMPLY WITH: AS 3500.3:2018 (STORMWATER DRAINAGE) AS 2870:2011 (RESIDENTIAL SLABS AND FOOTINGS). VICROAD STANDARD DRAWINGAS AND SPECIFICATIONS. RELEVANT AUTHORITY AS APPLICABLE.
- C7. FINISHED SURFACES ADJACENT TO BUILDINGS ARE TO FALL 50mm MIN AWAY FROM BUILDING FOR THE FIRST METRE.
- C8. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND IDENTIFY ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION.
- C9. PRIOR TO COMMENCING WORK THE CONTRACTOR IS TO ENSURE THAT ALL NECESSARY INVESTIGATION IS UNDERTAKEN TO ENSURE THAT THE WORKS CAN BE CONSTRUCTED AS DESIGNED. IF THE WORK CANNOT BE CARRIED OUT AS SHOWN THE CLIENT IS TO BE NOTIFIED IMMEDIATELY.
- C10. REFER TO ARCHITECTS DRAWINGS FOR CONSTRUCTION LEVELS. REFER ANY DISCREPANCIES TO THE ARCHITECT.
- C11. ALL EXISTING UNDERGROUND SERVICES ARE TO BE LOCATED PRIOR TO ANY EXCAVATION AND NO EXISTING SERVICE SHALL BE DISCONNECTED OR DISTURBED WITHOUT THE APPROVAL OF THE CLIENT OR RESPONSIBLE AUTHORITY.
- C12. ALL PIT COVERS TO COMPLY WITH AS3500.3:2018 'STORMWATER AND DRAINAGE' AND AS3996-2006 'ACCESS COVERS AND GRATES'. BUILDER TO CONFIRM ALL PIT COVER TYPES AND FINISH WITH THE ARCHITECT AND/OR SUPERINTENDENT AND ENSURE FIT FOR PURPOSE PRIOR TO ORDERING
- C13. STORMWATER DRAINS SUSPENDED UNDER SLABS OR ALONG WALLS SHALL BE TO APPROVED DETAILS.
- C14. ANY MISALIGNMENTS THAT MAY BE SOLVED BY CORBELLING OF PIT WALLS MAY ONLY BE CARRIED OUT WITH THE WRITTEN APPROVAL OF THE ENGINEER.
- C15. ALL DOWNPIPE COLLECTOR PIPES SHALL MATCH DOWNPIPE SIZE (100 DIA MIN) AT A GRADE OF 1 IN 100 UNLESS NOTED OTHERWISE.
- C16. ALL PIPE JUNCTIONS SHALL BE MADE WITH A 45° JOINT

### C17. CLASS OF PIPES:

- (a) CONCRETE PIPES (RC)
- SHALL CONFORM TO AS 1342 "PRECAST CONCRETE DRAINAGE PIPES" AND SHALL BE CLASS 2 PIPE WITH SPIGOT AND SOCKET RUBBER RING JOINTS UNLESS NOTED OTHERWISE. ALL CONCRETE PIPES UNDER PAVEMENTS TO BE CLASS 4

(b) FIBRE REINFORCED CEMENT PIPES (FRC) SHALL CONFORM TO AS 1342 "PRECAST CONCRETE DRAINAGE PIPES" AND SHALL BE TESTED TO THE REQUIREMENTS OF AS 1712 APPENDIX D "ASBESTOS CEMENT SEWER PIPES". ALL FRC PIPES SHALL BE CLASS X WITH ADCOL "V" RING JOINTS. FOR PIPE SIZES GREATER THAN 300mm ALTERNATIVE JOINTING MAY BE PERMITTED WITH THE APPROVAL OF THE CITY ENGINEER.

UNPLASTICISED PVC PIPES (UPVC)

(c) (c.1) WITHIN PROPERTY:

ALL UPVC PIPES SHALL CONFORM TO AS 2032 "CODE PRACTISE FOR THE INSTALLATION OF UPVC PIPES" PART 7 AND SHALL BE CLASS 6 SEWER QUALITY OR HEAVY DUTY STORMWATER DEPENDING ON APPLICATION. ALL JOINTING PROCEDURES SHALL CONFORM TO AS 2032 PART 3 AND SHALL BE EITHER SOLVENT WELDED OR RUBBER RING JOINTS.

WITHIN ROAD RESERVE:

(c.2) ALL UPVC PIPES SHALL CONFORM TO AS 1260 "UNPLASTICISED P.V.C (UPVC) PIPES AND FITTING FOR SEWERAGE APPLICATIONS" PARTS 1 TO 5 AND SHALL BE CLASS S.H PIPES



DIAL 1100 DIAL BEFORE YOU DIG CONTRACTOR TO CONFIRM LOCATION OF EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS

	MINIMUM C	OVER (mm)
LOONTON	CAST IRON, GALVANIZED STEEL	PLASTICS
1. NOT SUBJECT TO VEHICULAR LOADING		
a) WITHOUT PAVEMENT -		
i) FOR SINGLE DWELLING; OR	100	100
ii) FOR OTHER THAN SINGLE DWELLINGS	100	300
b) WITH PAVEMENT OF BRICK OR UNREINFORCED CONCRETE	100*	100*
2. SUBJECT TO VEHICULAR LOADING		
a) OTHER THAN ROADS:		
i) WITHOUT PAVEMENT	300	450
ii) WITH PAVEMENT OF -		•
A) REINFORCED CONCRETE FOR HEAVY VEHICULAR LOADING; OR	NIL*	100*
B) BRICK OR UNREINFORCED CONCRET FOR LIGHT VEHICULAR LOADING.	NIL* 75*	
b) ROADS:		
i) SEALED; OR	600	600
ii) UNSEALED	600	750
3. SUBJECT TO CONSTRUCTION EQUIPMENT LOADING OR IN EMBANKMENT CONDITIONS	600	750
4. LAND ZONE OF AGRICULTURAL USE	600	600

\*BELOW THE UNDERSIDE OF THE PAVEMENT.

- C19. WHERE A DRAIN IS LAID PARALLEL TO A FOOTING IT IS TO BE LOCATED SUCH THAT THE BASE OF ANY OF THE TRENCH IS NOT BELOW THE LINE OF INFLUENCE OF THE FOOTING WHICH IS 1H : 1V IN CLAY OR 2H : 1V IN SAND SOILS.
- C20. ALL DRAINAGE EXCAVATIONS ARE TO BE BACKFILLED WITH A SUITABLE APPROVED MATERIAL. UNDER SEALED PAVEMENTS AND BUILDING SLABS, THIS SHALL BE 20mm, DGS20. BACKFILL TO BE COMPACTED IN LAYERS NOT EXCEEDING 150mm LOOSE THICKNESS TO A DRY DENSITY OF NOT LESS THAN 95% OF THE MODIFIED COMPACTION TEST AS 1289.5.2.1
- C21. FOR CONCRETE HEADWALL DETAILS REFER VICROADS STANDARD DRAWING No SD 1921
- C22. ALL CONCRETE SHALL BE 32MPa STRENGTH GRADE COMPLYING WITH THE REQUIREMENTS OF AS 1379:1991. UNLESS SPECIFIED OTHERWISE.
- C23. ALL PIPING THAT PENETRATES A FOOTING/STRUCTURE IS TO BE LAGGED WITH A COMPRESSIBLE MATERIAL, 50mm MINIMUM.
- C24. CONTRACTOR / BUILDER IS TO COMPLETE ALL LINE MARKINGS AS INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS UNLESS NOTED OTHERWISE. REFER TO ARCHITECT FOR SET OUT OF LINE MARKING. ALL LINE MARKING TO BE COMPLETED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AUTHORITY REQUIREMENT OR RMS SPECIFICATIONS.
- C25. CONTRACTOR / BUILDER SHALL ALLOW FOR AND OBTAIN ALL NECESSARY AUTHORITY APPROVALS AND PERMITS.
- C26. UNLESS NOTED OTHERWISE, ALL PAVEMENT CONSTRUCTION TO FOLLOW THE RELEVANT RMS OR LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.

DEPTH TO	MINIMUM INTERNAL DIMENSIONS (mi		
	RECTAN	NGULAR	CIRCULAR
OUTLET	WIDTH	LENGTH	DIAMETER
<u>≤</u> 600	350	350	-
≤600	450	450	600
>600 <u>&lt;</u> 900	600	600	900
>900 <1200	600	900	1000
>1200	900	900	1000

# MINIMUM INTERNAL DIMENSIONS FOR STORMWATER AND INLET PITS



# TYPICAL EDGE STRIP (ES)

SCALE 1:10

# 25Ø DOWEL HOLE SECTION

1000 - 1800

PLAN

100

200

### PRECAST SPIKED KERB DETAIL (SK) IF REQUIRED

300



### BARRIER KERB DETAIL (K) SCALE 1:10

- NOTES:
- CONCRETE SHALL BE NORMAL CLASS N25 STANDARD STRENGTH GRADE COMPLYING WITH HTE REQUIREMENTS OF AS 1379 BEDDING SHALL BE 100mm MIN COMPACTED (98% MMDD) DEPTH OF
- CLASS 2 FINE CRUSHED ROCK OR SAND.

<u>NOTE:</u> TYPICAL RMS KERB DETAIL ONLY. REFER RELEVANT AUTHORITY STANDARD DRAWINGS FOR FURTHER INFORMATION

ISSUE	REVISION
1	PRELIMINARY ISSUE
2	DA SUBMISSION ISSUE
3	DA SUBMISSION ISSUE







40 years of urban thinking

**REFER TO PLAN FOR** 

– GRATINGS SHALL BE SET REFER TO PLAN FOR



Suite 14.02, Level 14, 49 York Street Sydney, NSW 2000

06/07/22

20/08/21

16/04/21

DATE

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		CIVIL LE	GEND
	EXISTING	NEW	ITEM
WITH WELL GRADED CRUSHED	× <sup>E99.99</sup>	×P99.99	LEVEL
20mm OR LESS NOMINAL SIZE	× <sup>EK99.99</sup>	<sub>Х</sub> ТК99.99	TOP OF KERB LEVEL
ED IN LATERS NOT EXCEEDING OSE THICKNESS TO & DRY	×EW99.99	, <b>Ţ</b> W99.99	TOP OF WALL LEVEL
DE NOT LESS THAN 95% OF THE	EP99.99	TP99.99	TOP OF PIT LEVEL
COMPACTION TEST AS 1289.5.2.1	IL99.99	IL99.99	INVERT LEVEL
	E99.50	P99.50	INTERMEDIATE CONTOURS
TH OF DGS20 FOR PIPE BEDDING	E100.00	<u>P100.00</u>	MAIN CONTOURS
			STORMWATER DIDE
	-AGAG-	-AGAG-	
ED AREAS		-	
		-	
FOUNDATIONS, CLAY OR IMPERVIOUS		-	
POSSIBLE, MAINTAIN 1.5m HORIZONTAL		-	OVERHEAD ELECTRICITY SEVICE
	-TT-	-	TELECOM SERVICE
R GREATER THAN 300mm, USE A	·GASGAS-	-	GAS SERVICE
JMINAL SIZE DGBZU. JADANCE WITH CHARENT OH & S	• Ex DP	• DP	DOWNPIPE
	-	• FW	FLOOR WASTE
DE OF FRACTICE FOR CONFINED	-	● FW/FA	FLOOR WASTE WITH DROPPER FROM ABOVE
	-	• FW/TB	FLOOR WASTE WITH DROPPER TO BELOW
	-	• 10	INSPECTION OPENING
		• NR	DROPPER
		- BR	
GRATINGS SHALL BE SET	-	P1	(REFER PIT SCHEDULE FOR DETAILS)
/ PAVED AREAS.			
	Ex JP		JUNCTION PTI (JP)
			GRATED PIT (GP)
CONNECTION OF SUB-SURFACE			
DRAIN AS DIRECTED. TYPICAL	Ex SEP		SIDE ENTRY PIT (SEP)
CENTRALLY			POLY PIT (PP)
BASE OF PIT TO BE			
	ETD	TD	GRATED TRENCH DRAIN (TD)
PIT BASE TO BE SET ON 75mm DEPTH OF DGS20			
150	-	SD	BASEMENT SPOON DRAIN
	EKC	KC	
			BARRIER KERB & CHANNEL
PIT			
	EK	<u> </u>	
300			
GALVANISED	EOD	SD	
KZU MS KUU -	ESD		PAVEMENT SPOON DRAIN
PROVIDE GALVANISED R20			
a company and a state build be a state of the state of th	EDW	RW	
	ERW	1\**	RETAINING WALL
			-
CTS FOR PITS WHICH EXCEED 1000mm IN DEPTH			

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**U** AND BELL ЧО CORNER COMPLEX SHED STORAGE



- 3. DRIVE 1.5 METRE LONG STAR PICKETS INTO 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 150mm OVERLAP. 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

DA SUBMISSION ISSUE 2 DA SUBMISSION ISSUE 1 PRELIMINARY ISSUE ISSUE REVISION

- 5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.

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DATE

6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.



### TYPICAL OCEAN PROTECT OCEANGUARD PIT BASKET N.T.S



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**CIVIL DETAILS SH** 

## LEGEND

REFER TO DRAWING C001 FOR CIVIL NOTES AND DETAILS SHEET 1 REFER TO DRAWING C002 FOR CIVIL DETAILS SHEET 2 REFER TO DRAWING C010 FOR GROUND LEVEL DRAINAGE SHEET 1 REFER TO DRAWING C015 FOR SEDIMENT AND EROSION PLAN REFER TO DRAWING C020 FOR CATCHMENT PLAN

> DENMAN STREE  $\mathbf{C}$ TURNEI AND BELL ЧО CORNER SHED COMPLEX STORAGE

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### TITLE OSD TANK DE RAINWATER T QUALITY CHAN

WATER QUALITY: TREATMENT NOTES: • WATER QUALITY 7 x 690 PSORB (MCC) OCEAN PROTECT STORMFILTER CARTRIDGES. • OCEANGUARD PIT BASKET TO ALL GRATED STORMWATER PITS. TREATMENT STANDARDS CATCHMENT:					
POLLUTANT	POST	%REDUCTION	%COUNCIL REQUIREMENTS		
GROSS POLLUTANTS	0	100%	90%		
TOTAL SUSPENDED SOLIDS 74.40 91.4% 85%					
TOTAL PHOSPHOROUS     0.541     69.3%     65%					
TOTAL NITROGEN	6.44	45%	45%		

STORMWATER DRAINAGE REQUIREMENTS HAVE BEEN CALCULATED IN ACCORDANCE WITH MUSWELLBROOK SHIRE COUNCIL STORMWATER AND FLOOD RISK MANAGEMENT GUIDELINES.

NOTE: ONSITE DETENTION AND REATMENT REQUIREMENTS IS SUBJECT TO COUNCIL APPROVAL

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# <u>LEGEND</u>

REFER TO DRAWING C001 FOR CIVIL NOTES AND DETAILS SHEET 1 REFER TO DRAWING C002 FOR CIVIL DETAILS SHEET 2 REFER TO DRAWING C010 FOR GROUND LEVEL DRAINAGE SHEET 1 REFER TO DRAWING C015 FOR SEDIMENT AND EROSION PLAN REFER TO DRAWING C020 FOR CATCHMENT PLAN



### NOTES:

- 1. IT IS THE BUILDERS RESPONSIBILITY TO MAKE GOOD TO EXISTING NATURE STRIP TO THE SATISFACTION
- THE BUILDER IS RESPONSIBLE TO LOCATE AND VERIFY ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORKS
- THE BUILDER IS RESPONSIBLE FOR ENSURING THAT ALL WORKS ARE IN ACCORDANCE WITH THE
- THE SLOPE OF ALL PIT LIDS MUST MATCH THE SURROUNDING EXISTING OR FINISHED SURFACE
- PRIOR TO COMMENCING WORK WITHIN ROAD RESERVE THE CONTRACTOR MUST SUBMIT A TRAFFIC MANAGEMENT PLAN PREPARED IN ACCORDANCE WITH THE CODE OF PRACTICE FOR WORKSITE SAFETY

ISSUE	REVISION
1	PRELIMINARY ISSUE
2	DA SUBMISSION ISSUE
3	DA SUBMISSION ISSUE







# <u>LEGEND</u>

REFER TO DRAWING C001 FOR CIVIL NOTES AND DETAILS SHEET 1 REFER TO DRAWING C002 FOR CIVIL DETAILS SHEET 2 REFER TO DRAWING C010 FOR GROUND LEVEL DRAINAGE SHEET 1 REFER TO DRAWING C015 FOR SEDIMENT AND EROSION PLAN REFER TO DRAWING C020 FOR CATCHMENT PLAN

DENOTES EAVE BOX GUTTERS WITH MINIMUM CROSS SECTION

AREA OF 7600 mm<sup>2</sup>. REFER TO ARCHITECTURAL DRAWING FOR SPECIFICATIONS .

DENOTES 100 DIAMETER UPVC DOWNPIPES OR APPROVED ALTERNATIVE SIZE, CONNECT TO STORMWATER DRAINAGE SYSTEM AT 1:100 GRADE. o DP

DIAL 1100 DIAL BEFORE YOU DIG CONTRACTOR TO CONFIRM LOCATION OF EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS

3	DA SUBMISSION ISSUE
2	DA SUBMISSION ISSUE
1	PRELIMINARY ISSUE
ISSUE	REVISION



- 1. IT IS THE BUILDERS RESPONSIBILITY TO MAKE GOOD TO EXISTING NATURE STRIP TO THE SATISFACTION OF MUSWELLBROOK SHIRE COUNCIL THE BUILDER IS RESPONSIBLE TO LOCATE AND VERIFY ALL EXISTING SERVICES PRIOR TO THE
- COMMENCEMENT OF ANY WORKS THE BUILDER IS RESPONSIBLE FOR ENSURING THAT ALL WORKS ARE IN ACCORDANCE WITH THE
- RELEVANT AUTHORITY REQUIREMENT AND TO THE SATISFACTION OF THE RELEVANT AURTHORITY. THE SLOPE OF ALL PIT LIDS MUST MATCH THE SURROUNDING EXISTING OR FINISHED SURFACE PRIOR TO COMMENCING WORK WITHIN ROAD RESERVE THE CONTRACTOR MUST SUBMIT A TRAFFIC MANAGEMENT PLAN PREPARED IN ACCORDANCE WITH THE CODE OF PRACTICE FOR WORKSITE SAFETY

TRAFFIC MANAGEMENT AND OBTAIN APPROVAL FROM COUNCIL'S TRAFFIC ENGINEER.

# ROOF CATCHMENT PLAN

ED OUT IN ACCORDANCE WITH BLUEBOOK FOR RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS. 1 & C002 FOR CIVIL DETAILS.



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