

# APPENDIX D -UPDATED ARRC DESIGN





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Notes	Issue	Description	Date	Ву	QA	
-This drawing and design is subject to Reid Campbell (NSW) Ptv Ltd	A	FOR COORDINATION	09.06.2020	CG	MF	
copyright and may not be reproduced without prior written consent.	В	SSD APPLICATION	12.06.2020	CG	MF	
-Contractor to verify all dimensions on site before commencing work.	С	GENERAL UPDATE	08.07.2020	CG	MF	Architecture, Interiors, Project Management
-Report all discrepancies to project manager prior to construction. -Figured dimensions to be taken in preference to scaled drawings. -All work is to conform to relevant Australian Standards and other Codes as applicable together with other Authorities' requirements and	D	QUEUING UPDATE	04.02.2021	CG	MF	ACN 002 022 801 ARN 28 217 605 875
	E	GENERAL UPDATE	05.02.2021	CG	MF	ACIN 002 055 001 ADIN 20 517 005 075
	F	OSD UPDATE	17.02.2021	CG	MF	Level 15, 124 Walker Street North Sydney NSW 2060 Australia
regulations.	G	BOUNDARY UPDATE	17.02.2021	CG	MF	
	Н	OUTLET DRAIN UPDATE	24.02.2021	CG	MF	Tel: 61 02 9954 5011 Email: sydney@reidcampbell.com
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NSW Registered Architect James Webb, 10187						

**STATE SIGNIFICANT** DEVELOPMENT



PROJECT MANAGER

PROJECT

# AREA SCHEDULE

BUILDING AREAS	
WAREHOUSE OFFICE 1 OFFICE 2 (INC. AMENITIES) PUMP ROOM	13,130 m² 400 m² 235 m² 35 m²
TICKET BOOTHS	20m <sup>2</sup>
TOTAL	13,820 m²
WAREHOUSE ROOF OFFICE 1 ROOF OFFICE 2 ROOF	13,260 m² 400 m² 140 m²
CAR PARKING	45 PROVIDED

LEGEND			
	WAREHOUSE		
	OFFICE		
	LANDSCAPE		
	WATER STORAGE & TREATMENT PLANT STORAGE		
	LIGHT DUTY PAVEMENT		
	HEAVY DUTY PAVEMENT		
	PEDESTRIAN PATHWAY		
	SITE BOUNDARY		
	300mm OFFSET & WHEEL TURN PATH		
	B-DOUBLE TURN PATH (26m) - PICK-UPS		
	B-DOUBLE TURN PATH (26m) - DELIVERIES		
ABBREVIATION			
DP	DOWN PIPE		
FE	FIRE EXIT DOOR		
RSD	ROLLER SHUTTER DOOR		
SLD	SLIDING DOOR		
NOTES			
<ol> <li>LAYOUT SUBJECT TO DE ENGINEERING INPUT</li> <li>LAYOUT SUBJECT TO BE</li> <li>(*) AREAS SUBJECT TO E</li> </ol>	ETAILED DESIGN AND RIGADE INPUT BRIGADE APPROVAL		
0m 10m 20m	30m 40m 50m		
SCALE BAR 1:500 @ A1	;1:1000 @ A3		
Drawing Title SITE PLAN			

PROPOSED INDUSTRIAL DEVELOPMENT 275 ADAMS ROAD LUDDENHAM NSW

Drawn Checked PRINT DATE CG MF 24-Feb-21 10:23:56 AM

NORTH POINT

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DIMENSION TABLE					
PIT ID	PIPE SIZE	LENGTH (mm)	WIDTH (mm)	d50 (MIN)	
A6	Ø450	2700	1350	200	
T4	Ø375	2250	1125	200	
H2	Ø375	2250	1125	200	



# EXPANSION JOINT DETAIL (EJ)





BIDIM A44 GEOTEXTILE OR EQUIVALENT SEDGES AND RUSHES PLANTED IN TOPSOIL FILLED VOIDS 1 PROVIDE CONCRETE TRENCH CUTOFF HEEL TO DETAIL COARSE GRAVEL BED 200mm DEPTH BASE (NOM. 75 - 150mm AGGREGATE) WIDTH SECTION 〔1〕

FILTER MEDIA SPECIFICATION

TOXICANT

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AS1289 3 6 1 - 1995)

1. FILTER MEDIA SHALL BE A LOAMY SAND.

2. FREE OF RUBBISH, DELETERIOUS MATERIAL

CLAY & SILT (<0.05mm) <3%

COARSE SAND (1.0-2.0mm) 7-10%

FINE GRAVEL (2.0-3.4mm) <3%

PLAN VEIW



### NOTES:

- 1 BACKFILL IS TO BE GRANULAR, FREE DRAINING AND COMPACTED TO 95% MAXIMUM DRY DENSITY
- 2 FOUNDATION TO BE APPROVED FOR 200 KPa BEARING CAPACITY. 3 ROCK IS TO BE SOUND DURABLE BASALT OR OTHER MATERIAL APPROVED BY
- COUNCIL ENGINEER 4 ROCKS SHALL BE PLACED IN SUCH A MANNER THAT THEY ARE STABLE AND
- INTERLOCKING AND LAID ROUGHLY COURSED AND BEDDED ON THEIR BROADEST BASE.
- EACH ROCK SHALL BE:
   ELONGATED TO ALLOW STACKING ON THE LONGEST AXIS.
- ANGULAR IN SHAPE (PROMOTES INTERLOCKING)
   FREE FROM OVERBURDEN, SPOIL, SHALE AND ORGANIC MATERIAL.
- 6 WALL CONSTRUCTION TO BE SUPERVISED BY A SUITABLY. 7 AIR VOIDS SHALL NOT EXCEED 30% VOLUME.
- 8 THE TOP COURSE OF ROCKS ON EMBANKMENT AND ADJACENT TO PIPE SHALL BE
- MORTARED INTO POSITION.



SECTION (2)

## TRANSITION LAYER

CLEAN WELL GRADED SAND/COURSE SAND MATERIAL CONTAINING LITTLE OR NO FINE.

### DRAINAGE LAYER 2. CLEAN, FINE GRAVEL (2-5mm).

- 1. SLOTTED Ø150mm UPVC PIPE (CONSISTENT WITH
- 2. JOINTS SHALL BE SOLVENT CEMENT GLUED.

0.7m 100mm THICK COARSE GRAVEL / COBBLE LAYER OF 10mm TO 400mm

SMOOTH RIVER ROCK

## ROCK RIPRAP DETAIL AND NOTES:

- REQUIREMENTS SPECIFIED.
- SHALE & ROCK WITH SHALE SEAMS WILL NOT BE ACCEPTABLE.
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- ROCK WORK IS BOUGHT
- TYPICAL ROCK WEIGHT RANGES FOR RIPRAP ARE

M<sub>50</sub> < 60kg (NOM 300MD) M<sub>15</sub> - 25kg M<sub>100</sub> - 120kg

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STACKED ROCK HEADWALL -

 FREE OF ORGANIC MATTER.
 HYDRAULIC CONDUCTIVITY = 100-300mm/hr MEASURED USING ASTMF1815-0.6 METHOD 5. WELL GRADED, ALL PARTICLE SIZE RANGES DRAINAGE PIPE FROM 0.75mm TO 4.75mm SIZE (DEFINED BY AS/NZs/245) VERY FINE SAND (0.05-0.15mm) 5-30% 3. BENDS SHALL BE 45.° FINE SAND (0.15-0.25mm) 10-10% MEDIUM TO COARSE SAND (0.25-1.0mm) 40-60%

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VEGETATION PLANTING DETAILS FOR BIO RETENTION 1. MINIMUM 8 PLANTS PER SQUARE METRE. WHICH PLANTED FROM 50mm TUBES OR HIKO CELLS.

- 2. SOME PLANT SPECIES THAT CAN BE USED.
  - Banksia robur
  - Correa alba
  - Dianella Cearulea 'King Alfred' (Blue flax-lily)
  - Dichelachne micrantha
  - Doryanthes excels Imperata cynlindrical (Blady Grass)
  - Isolepsis nodosa
  - Lomandra longifolia (Matrush)
  - Melaleuca thymifolia
  - Westringia fruiticosa
  - Acmena smithii
  - Callistemon sp



SCALE: NTS

1. ALL RIPRAP MUST CONSIST OF HARD, DURABLE ANGULAR RUN-OF-QUARRY SANDSTONE ROCK; RESISTANT TO WEATHERING & WATER ACTION; FREE FROM OVERBURDEN, SPOIL, SHALE & ORGANIC MATERIAL: & SHALL MEET THE GRADATION

ROUNDED STONES/BOULDERS WILL NOT BE ACCEPTABLE

ALL BOCK & COBBLES TO BE PACKED WITH TOPSOIL GAPS IN RIPRAP TO BE PLANTED AS SPECIFIED IN VMP, OR WITH SUITABLE NATIVE GRASSES/SEDGES.

RIPRAP SHALL BE PLACED ON THE PREPARED SLOPE IN A MANNER THAT WILL

PRODUCE A REASONABLY WELL GRADED MASS OF STONE WITH THE MINIMUM PRACTICAL PERCENTAGE OF VOIDS. LARGER STONES SHALL BE WELL DISTRIBUTED & THE ENTIRE MASS OF STONE SHALL CONFORM TO THE GRADATION SPECIFIED BY THE ENGINEERING PLANS.

7. RIPRAP IS TO BE PLACED BY HAND AND CROW-BARRED INTO PLACE TO ENSURE FIT WITH MINIMUM VOIDS.

THE MINIMUM THICKNESS OF THE RIPRAP LAYER IS TO BE 1.5 TIMES THE d50 ROCK SIZE & NOT BE LESS THAN 300mm FOR PRACTICAL PLACEMENT.

 ALL RIPRAP MUST BE PLACED OVER A 100mm COARSE GRAVEL / COBBLE LAYER OF 10mm TO 40mm SMOOTH RIVER ROCK. VOIDS ARE TO BE FILLED IN DURING PLACEMENT AND LIGHTLY WASHED IN TO THE ABOVE LAYER WITH TOPSOIL AS THE

10. ALL ROCK IS TO BE A HARD DURABLE ROCK WITH A POINT INDEX LOAD IS50 GREATER THAN 1.0MPa AS DETERMINED IN ACCORDANCE WITH AS4133.4.1 -2007 11. THE MINIMUM DENSITY OF STONE USED SHALL NOT BE LESS THAN 2200 kg/cu.m.

ADAMS ROAD JDDENHAM	CIVIL DETAILS SHEET 1		
	PROJECT NO. <b>7472</b>	DRAWING No.	D AMDT