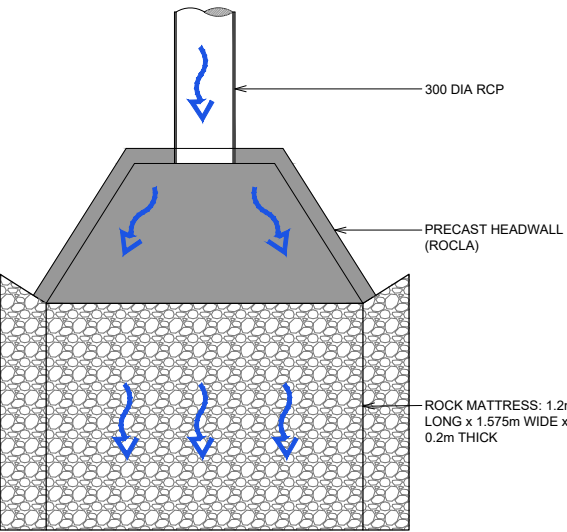


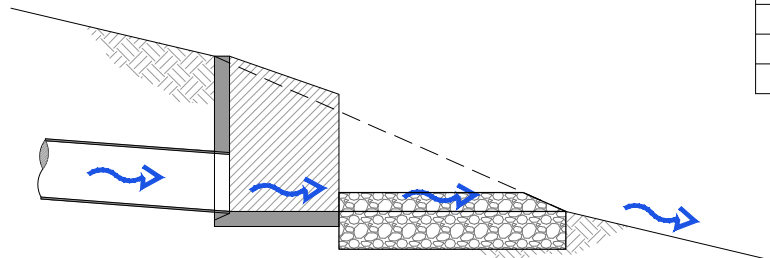
100mm AT ORIGINAL SIZE

LEGEND

DEVELOPMENT BOUNDARY	
CATCHMENT BOUNDARY	
OVERLAND FLOW ARROW	
0.5m CONTOURS	
LANDSCAPED AREA	
PAVED AND ROAD AREA	
ROOF AREA	
BIORETENTION AREA	
TREE PROTECTION AREA	
NEW/ EXISTING SWALE	
DIVERSION BUND	
PROPOSED DRAINAGE NETWORK	
EFFLUENT DISPOSAL AREA	
PROPOSED RAINWATER TANK: 20KL EACH	



PLAN



ELEVATION

BASIN OUTLET DETAIL

SCALE: NOT TO SCALE

REV	DESCRIPTION	DATE	DRAWN	DESIGN	CHECK	APPROVED
A	ISSUED FOR APPROVAL	19/04/16	TV	TV	BG	BG
B	CHANGES TO LAYOUT	03/07/17	TV	TV	BG	BG
C	CHANGES TO LAYOUT	18/12/17	NVO	NVO	MP	MP
D	ISSUED FOR COUNCIL COMMENTS	18/04/18	NVO	NVO	BG	MP
E	CHANGES IN LAYOUT	20/09/18	NVO	NVO	MP	MP

SCALES:
0 5 10 20 30
Full Size 1:500 ; Half Size 1:1000
Scale (m)
DO NOT SCALE FROM DRAWING

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DRAWN BY: N. VAN OERS (BEng)
DESIGN BY: N. VAN OERS (BEng)
APPROVED BY:
DATE:
THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS APPROVED

PLANIT CONSULTING

SUITE 9A, 80-84 BALLINA STREET  
PO BOX 161  
LENNOX HEAD NSW 2478

TELEPHONE: 02 6687 4666  
ABN: 99 613 049 568  
EMAIL: [administration@planitconsulting.com.au](mailto:administration@planitconsulting.com.au)

CLIENT:

ASSISTANCE DOGS AUSTRALIA  
C/- THERIAN PTY LTD  
UNIT 10, 75 WATERWAY DRIVE  
COOMERA  
QLD 4209

LOCAL GOVERNMENT AUTHORITY:

PENRITH CITY COUNCIL

PROJECT:	ADA DOG TRAINING FACILITY
DRAWING TITLE:	DRAINAGE LAYOUT PLAN
ORIGINAL SIZE:	PLANIT JOB No.: J082
DRAWING No.:	0001
REV:	E

CATCHMENT: WESTERN ROAD

PAVED AREA: 0.101ha  
ROOF AREA: 0ha  
TOTAL AREA: 0.186ha (INCL. LANDSCAPING)

CATCHMENT: LOWER

PAVED AREA: 0.085ha  
ROOF AREA: 0.152ha  
TOTAL AREA: 0.636ha (INCL. LANDSCAPING)

CATCHMENT: UPPER

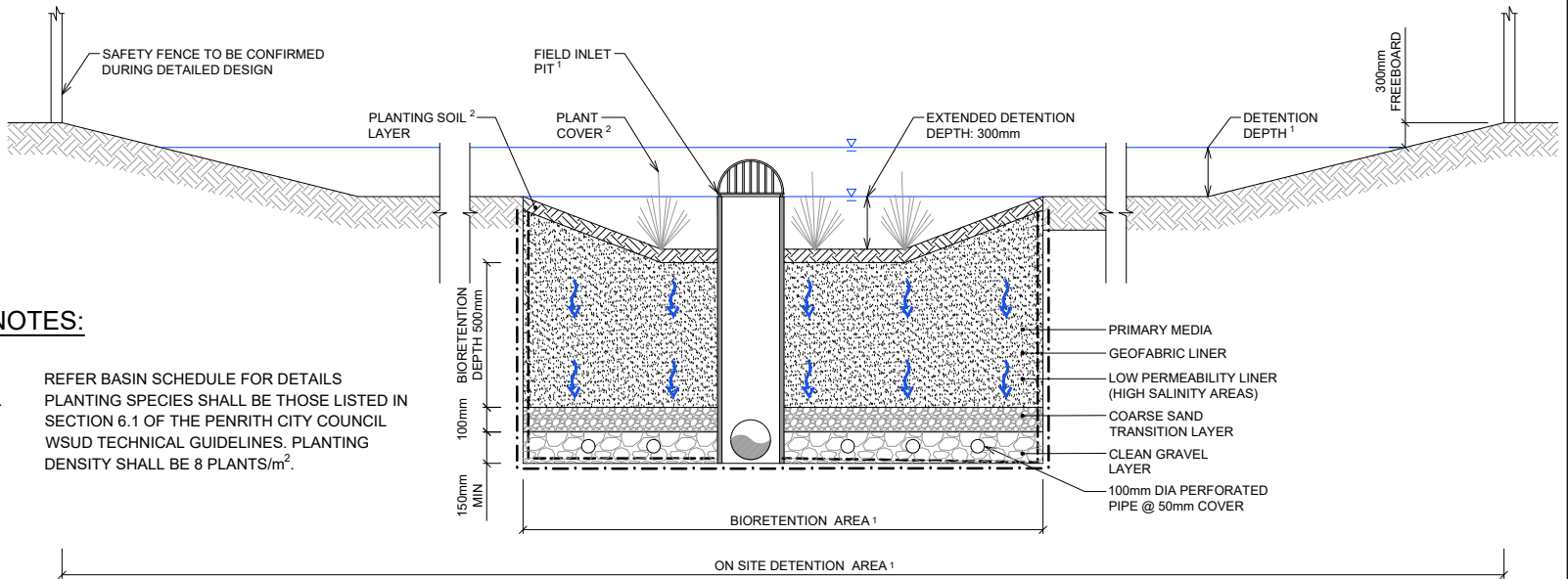
PAVED AREA: 0.190ha  
ROOF AREA: 0.221ha  
TOTAL AREA: 1.030ha (INCL. LANDSCAPING)

BASIN SCHEDULE

CATCHMENT	WESTERN ROAD/ LOWER	UPPER
DETENTION AREA: TOB	85m <sup>2</sup>	230m <sup>2</sup>
DETENTION AREA: BOB	74m <sup>2</sup>	200m <sup>2</sup>
DETENTION DEPTH	300mm	500mm
DETENTION VOLUME	23.9m <sup>3</sup>	107.5m <sup>3</sup>
BIORETENTION AREA: TOB	72.6m <sup>2</sup>	72.6m <sup>2</sup>
BIORETENTION AREA: BOB	62.5m <sup>2</sup>	62.5m <sup>2</sup>
BIORETENTION DEPTH	300mm	300mm
BIORETENTION VOLUME	20.3m <sup>3</sup>	20.3m <sup>3</sup>
OUTFLOW PIT TYPE	900x900 FI	900x900 FI
OUTFLOW PIPE TYPE	300mm RCP	300mm RCP

NOTES:

- REFER BASIN SCHEDULE FOR DETAILS
- PLANTING SPECIES SHALL BE THOSE LISTED IN SECTION 6.1 OF THE PENRITH CITY COUNCIL WSUD TECHNICAL GUIDELINES. PLANTING DENSITY SHALL BE 8 PLANTS/m<sup>2</sup>.



COMBINED DETENTION AND BIORETENTION BASIN TYPICAL DETAIL

SCALE: NOT TO SCALE

**PRELIMINARY ISSUE**  
NOT FOR CONSTRUCTION