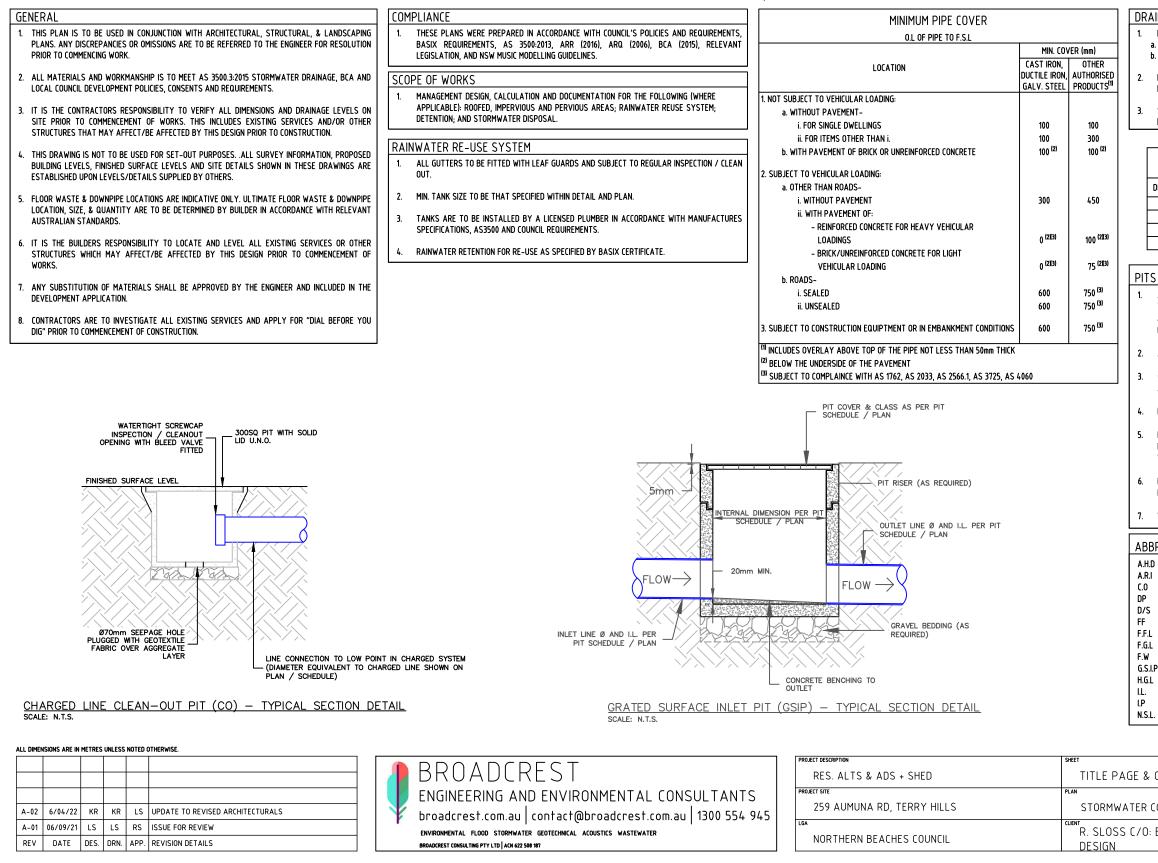
STORMWATER CONCEPT PLAN RES. ALTS & ADS + SHED 259 AUMUNA RD, TERRY H



DRAINAGE LINES

≤ Ø150

225

300

375

- MINIMUM PIPE GRADE AS SPECIFIED IN TABLE BELOW. MINIMUM DIAMETER IS TO BE (U.N.O): Ø100mm WHERE LINE RECEIVES ROOF WATER.
- Ø150mm WHERE LINE RECEIVES RUN-ON FROM PAVED/UNPAVED EXTERNAL SURFACES
- PIPE EMBEDMENT IS TO BE IN ACCORDANCE WITH LOCAL AUTHORITY SPEC., AS 3500.3, AS 2032 FOR PVC. & AS 3725 FOR FCR/RCP PIPEWORK.

SUBSOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS AND EMBANKMENTS WITH THE LINES FEEDING INTO THE STORMWATER DRAINAGE SYSTEM.

MINIMUM SITE PIPE GRADIENT		
(U.N.O)		
DIAMETER Ø (mm)	MIN. GRADE	MIN. % SLOPE

1:100

1:200

1:250

1:300

1%

0.5%

0.4%

0.33%

MINIMUM INTERNAL DIMENSIONS

	FUR STURMWATER PITS			
		MIN. INTERNAL D	IMENSIONS (mm)	
	OUTLET(mm)	WIDTH	LENGTH	
1	≤ 600	450	450	
1	> 600 TO ≤ 900	600	600	
1	> 600 TO ≤ 900	600	900	
1	> 1200	900	900	

ALL PITS TO BE FITTED WITH APPROVED GALAVANISED STEEL GRATES AND TO BE SUITABLE FOR THE FOLLOWING LOAD RATING (U.N.O):

- CLASS-B MIN. FOR LANDSCAPED AREAS
- CLASS-C WHERE SUBJECT TO VEHICULAR TRAFFIC

2. ALL PITS FITTED WITH CHILDPROOF SPRING LOCKING J-BOLTS

GRATED COVERS OF PITS > 600SQ mm ARE TO BE HINGED & OFFSET FROM OBSTRUCTIONS TO ALLOW FOR FULL OPENING.

4. PROVIDE STEP IRONS TO STORMWATER PITS > 1200mm IN DEPTH.

5. PIT BASES ARE TO BE BENCHED LEVEL TO THE I.L OF THE OUTLET PIPE (NO SUMP U.N.O). WITH A MIN. FALL OF 20mm BETWEEN THE INLET AND OUTLET PIPE I.Ls. ALL PIPES SHOULD BE CUT FLUSH WITH THE WALL OF THE PITS.

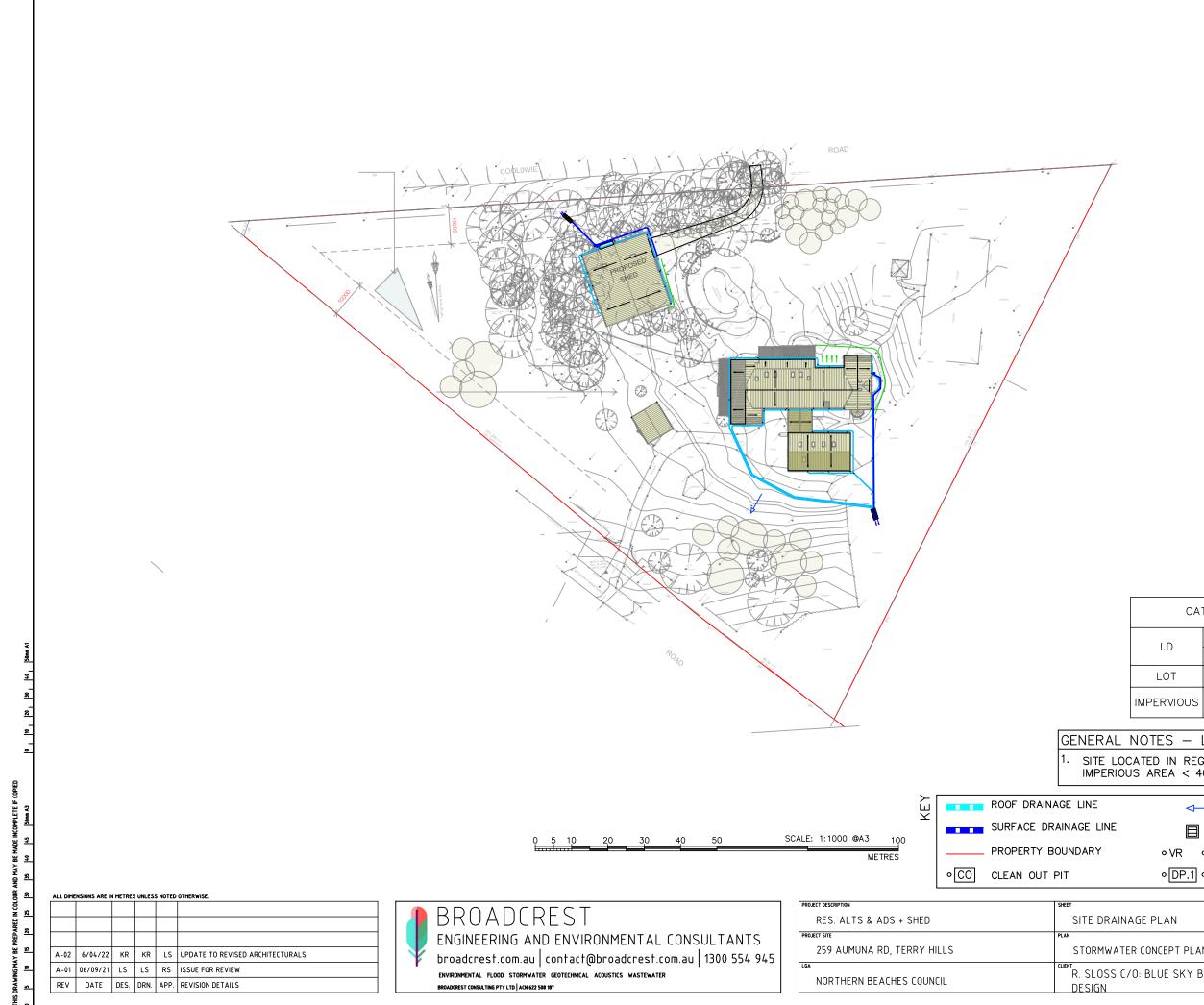
PRECAST PITS ARE TO BE SET ON A 75mm CONCRETE BASE AND BACKFILLED WITH CONCRETE TO HALF THE PIT'S HEIGHT.

7. WATER SHOULD NOT BE PERMITTED TO POND WITHIN THE DRAINAGE SYSTEM.

ABBREVIATIONS

	INTIONS		
A.H.D	AUSTRALIAN HEIGHT DATUM	N.T.S	NOT TO SCALE
A.R.I	AVERAGE RECURRENCE INTERVAL	0.F	OVERFLOW
.0	CLEAN-OUT PIT	0.L.	OBVERT LEVEL
)P	DOWNPIPE	0.S.D	ON-SITE DETENTION
)/S	DOWNSTREAM	R.C.P	REINFORCED CONCRETE PIPE
F	FIRST FLUSH DEVICE	R.H.S	RECTANGULAR HOLLOW SECTION
F.F.L	FINISHED FLOOR LEVEL	R.L.	REDUCED LEVEL
.G.L	FINISHED GARAGE LEVEL	R.W.T	RAIN-WATER TANK
.W	FLOOR WASTE	S.L	SURFACE LEVEL
5.S.I.P	GRATED SURFACE INLET PIT	sa	SQUARE
I.G.L	HYDRAULIC GRADE LINE	TYP.	TYPICAL
.L.	INVERT LEVEL	T.W.L	TOP WATER LEVEL
.P	INSPECTION POINT	U/S	UPSTREAM
I.S.L.	NATURAL SURFACE LEVEL	U.N.O	UNLESS NOTED OTHERWISE

& GENERAL NOTES	PROJECT ID 1381–SW SCALE	
R CONCEPT PLAN	NTS @ A3	
D: BLUE SKY BUILDING	SHEET NO. 1 of 5	ų.



L I			
NOTES - LGA CONTR	ROLS & OSD WARRANT		
CATED IN REGION 2 OF NBC WMDP2020 MAP2. TOTAL JS AREA < 40% OF SIDE, THEREFORE OSD WARRANTED.			
SURFACE FLOW DIRECTION			
GRATED SURFACE INLET PIT (G.S.I.P)			
\circ VR \circ VD VERTICAL RISER / VERTICAL DROPPER			
• DP.1 • SP.1 DOWNPIPE / SPREADER TYPE 1			
AGE PLAN	PROJECT ID 1381-SW SCALE		
ER CONCEPT PLAN	1:1000 @ A3		
0: BLUE SKY BUILDING	1:500 @ A1 sheet no. 2 of 5		

CATCHMENT AREA CALCULATIONS [M²]

PRE-DEV. POST-DEV.

18082.0

1696.5

(9.38%)

I.D

LOT

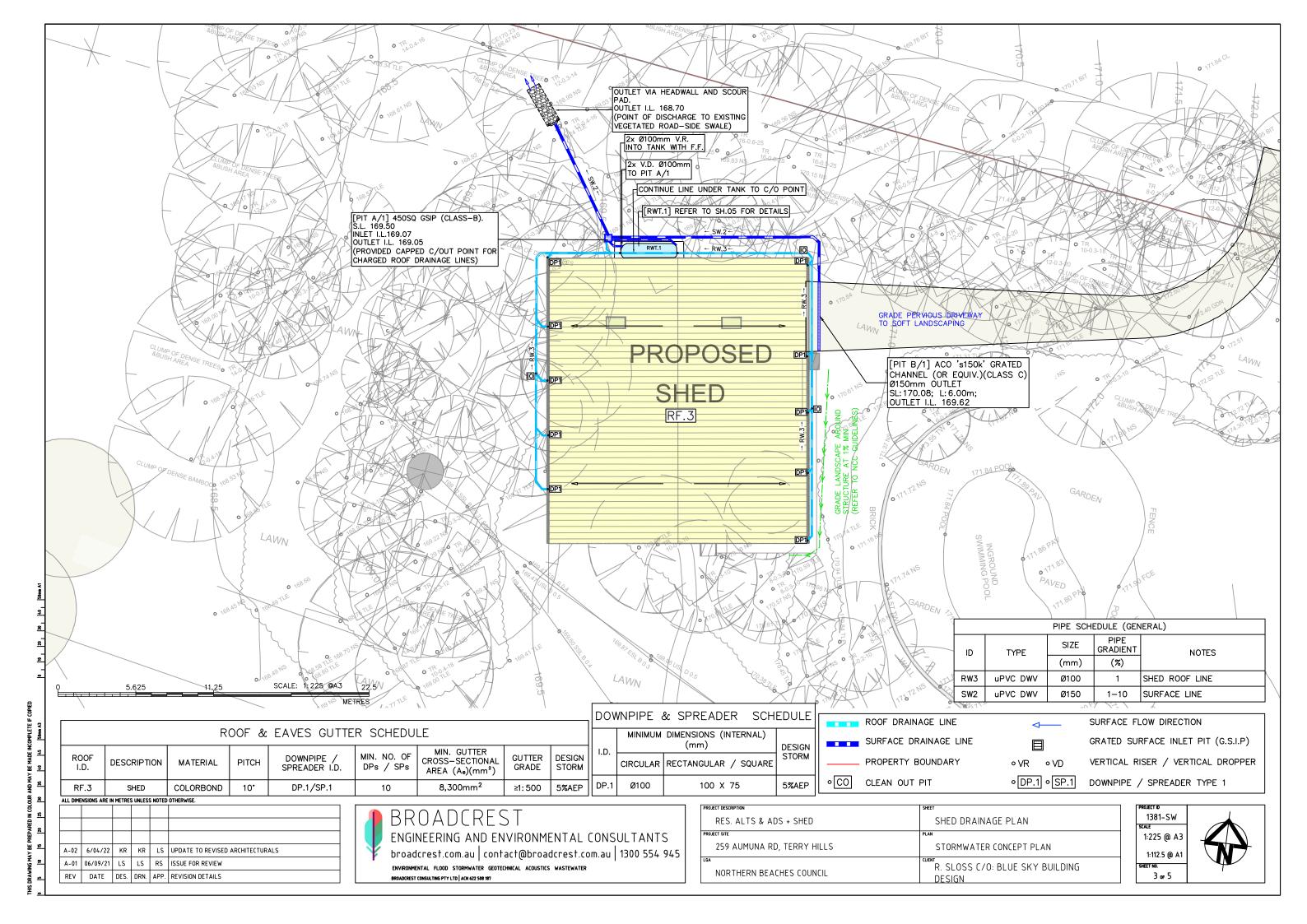
DEVELOPMENT CONDITION

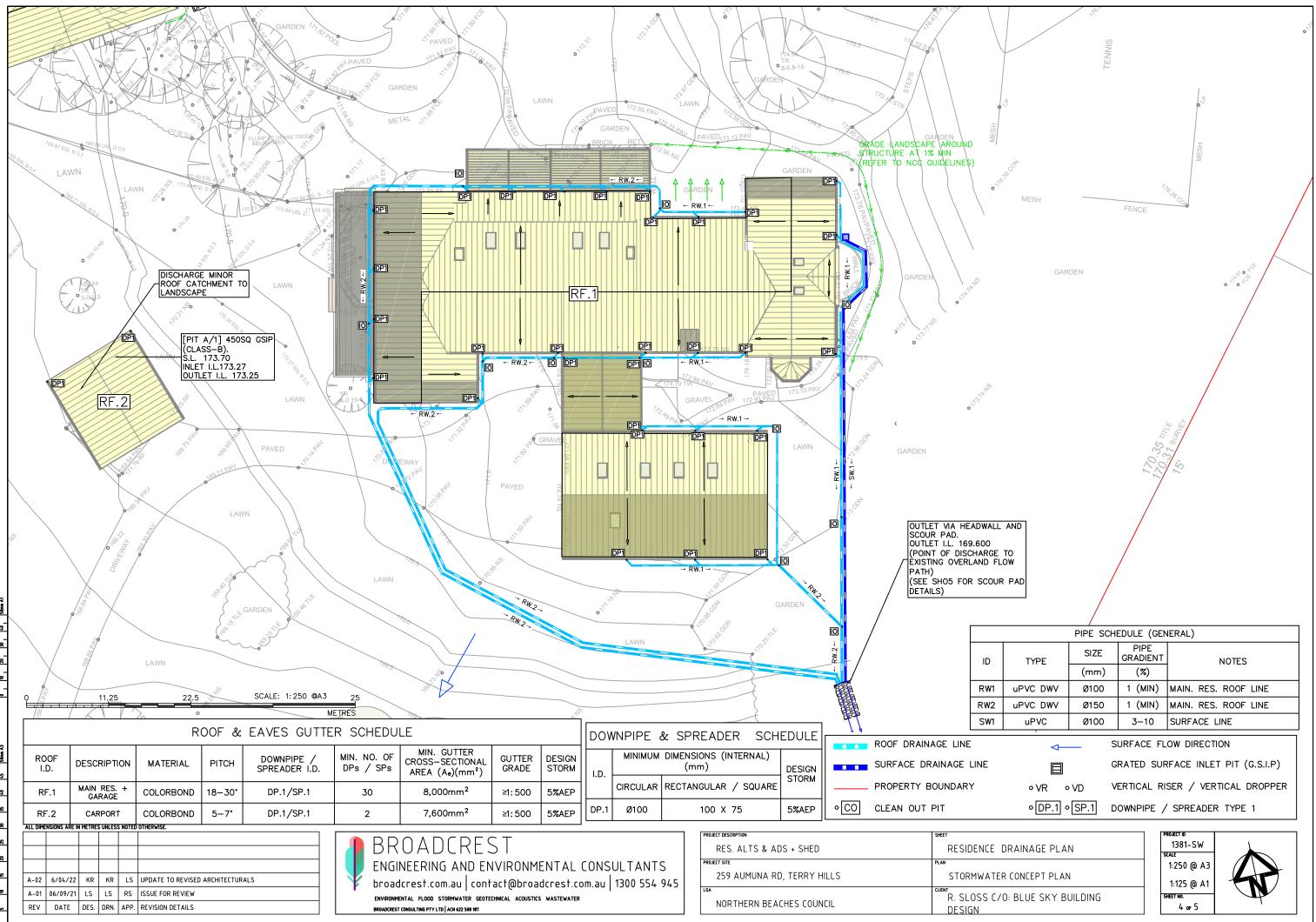
2376

(13.14%)

⊿мр

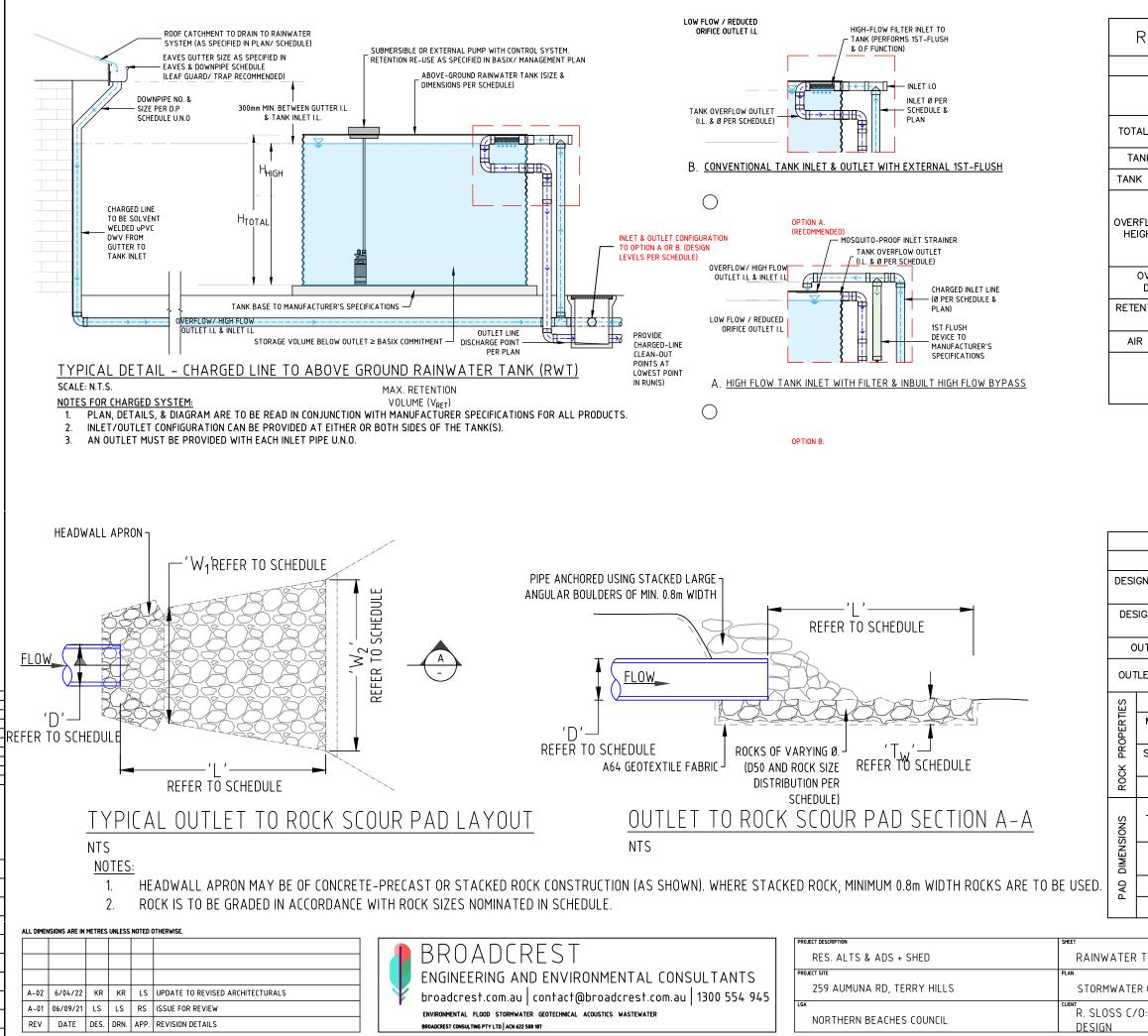
679.500





NCOMPLETE

OPIED



RAINWATER TANK SCHEDULE			
SYSTEM ID		RWT 1	
TYPE		11000L MODLINE AQUAPLATE STEEL WATER TANK	
AL TANK VOLUME (KL)		11.00	
NK DIMENSIONS (m)		H: 2.47, W: 1.15, L: 4.0	
K BASE R.L. (m, AHD)		169.750	
RFLOW OUTLET IGHT 'OF _{HIGH} '	(m)	2.36	
	I.L. (m, AHD)	172.11	
OVERFLOW OUTLET DIAMETER (mm)		2x Ø100	
ENTION VOLUME BELOW OUTLET (kL)		10.51	
R VOID VOLUME (KL)		0.49	
COMMENTS		2x Ø100 INLET. 2xØ100 OVERFLOW TO PIT A/1. RETENTION RE-USE PER BASIX.	

OUTLET SCOUR PAD SCHEDULE			
ID	MAIN RES. OUTLET	SHED	
GN DISCHARGE 'QD' [m3/s]	0.041	0.020	
GIGN VELOCITY 'VD' [m/s]	0.8	1.13	
UTLET 'D' [mm]	2xØ150 & 2xØ100	Ø150	
'LET I.L (m, AHD)	168.740	168.700	
ROCK FINISH	ANGULAR	ANGULAR	
MEAN ROCK SIZE 'D50' [mm]	100	100	
SIZE DISTRIBUTION 'D50/D90'	0.67	0.67	
D90 [mm]	150	150	
MIN. PAD THICKNESS 'TMIN' [mm]	200	200	
PAD LENGTH 'L' [m]	3.0	3.0	
WIDTH 'W1' [m]	1.44	0.75	
WIDTH 'W2' [m]	2.64	1.95	

RAINWATER TANK & PAD SCHEDULES

STORMWATER CONCEPT PLAN

R. SLOSS C/O: BLUE SKY BUILDING

