

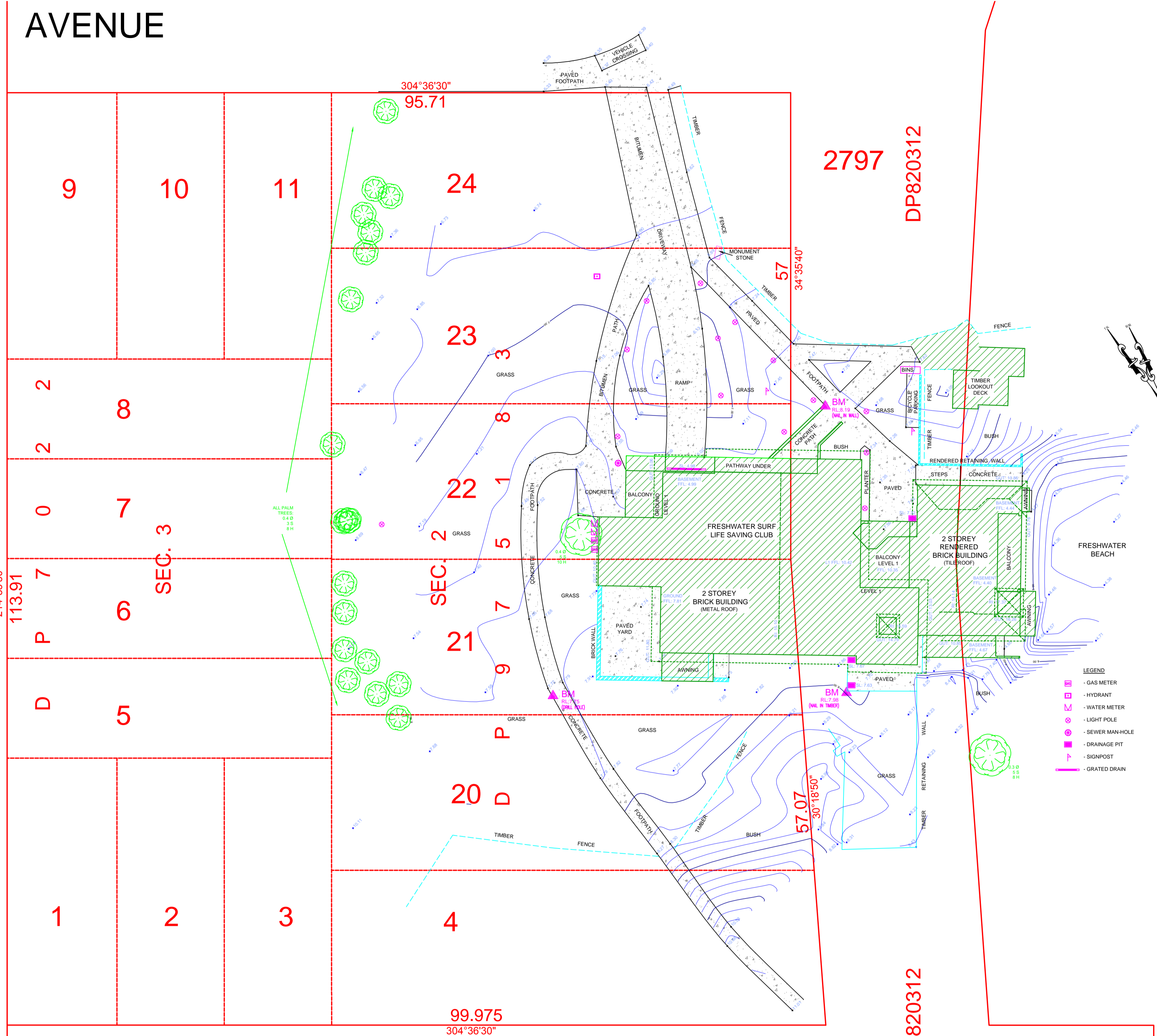
KOOLOORA AVENUE

22
15
14
13

GORE STREET

SP210

MOORE ROAD



3
2
1
0
9
0
9
0
1

- NOTES**
- TREE SPREADS SHOWN 'APPROXIMATELY' ONLY
 - CONTOURS SHOWN ARE INDICATIVE ONLY
 - VISIBLE SERVICES (AT TIME OF SURVEY) SHOWN ONLY
 - NO SERVICE PITS ACCESSED/OPENED SHOWN AS LABELED
 - BOUNDARIES BY THE TITLE DIAGRAM ONLY,(NOT SURVEYED)
 - ALL PITS SHOULD BE ACCESSED, CONFIRMED AND HAVE SUBSURFACE EXTENTS MEASURED BY THE RELEVANT AUTHORITIES, PRIOR TO ADOPTION.
 - ALL PIPES, CABLES & DUCTS IN THE EXCAVATION AREA SHOULD BE ACCURATELY LOCATED BY A "PIPE LOCATOR" OR BY THE RELEVANT AUTHORITY, PRIOR TO ANY EXCAVATION IS UNDERTAKEN.
 - THE SUBJECT TITLE IS BURDENED BY COVENANTS(VIDE A57918, A54669, A231181, A239379, A285346,A222511)

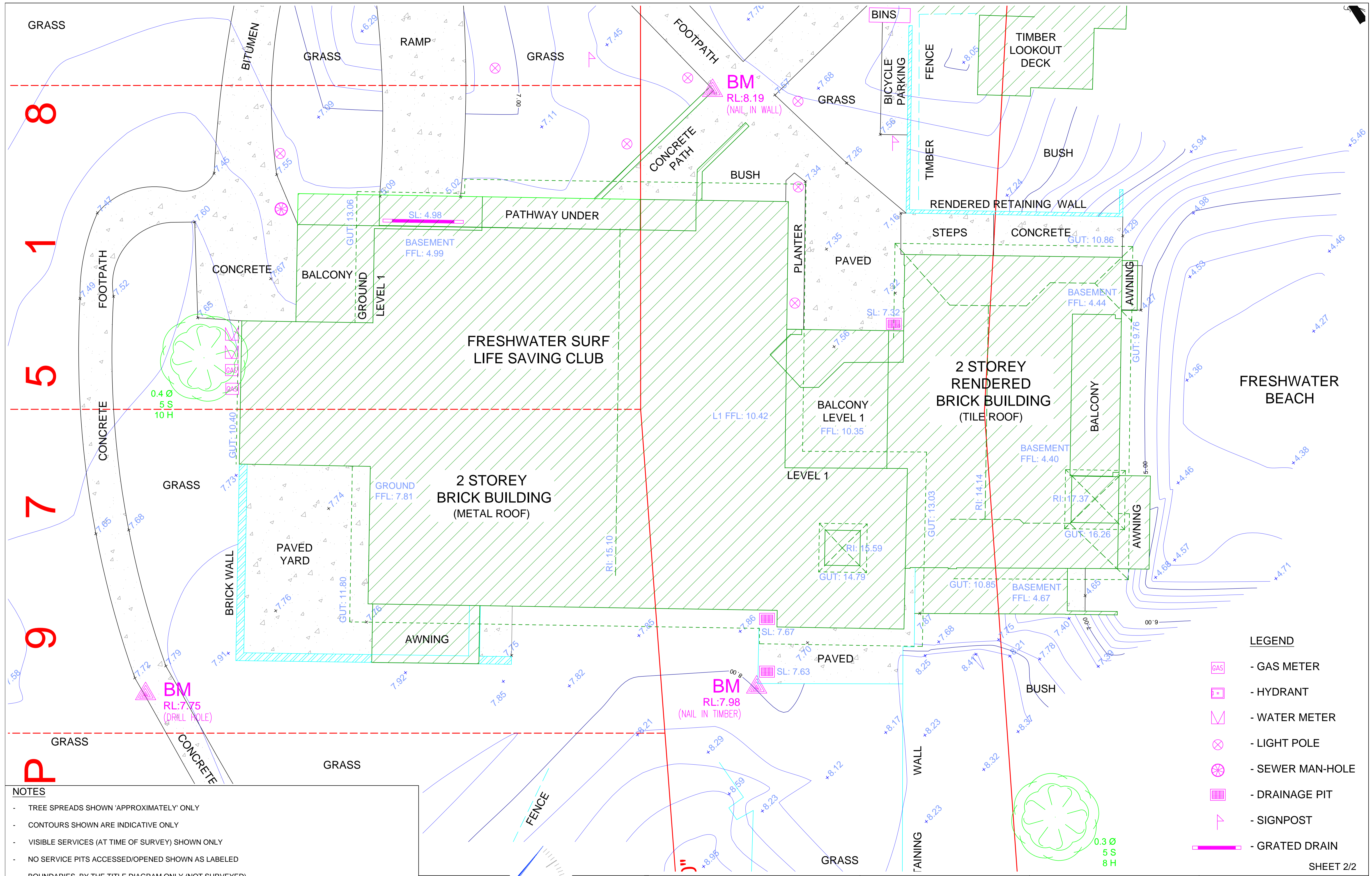
daw & walton CONSULTING SURVEYORS
 ABN 65 120 413 372

PO BOX 3222
 REDFERN, NSW, 2016
 Ph: (02) 8065 1156
 Fax: (02) 8065 1297
 Email: survey@daw-walton.com.au

DETAIL SURVEY @
 KOOLOORA AVENUE,
 FRESHWATER NSW 2096
 CLIENT: FRESHWATER LIFE SAVING CLUB

JOB No: 3342-16
 SURVEYED ON: 16/11/2016
 BY: L. W. & S. R.
 DRAWN ON: 18/11/2016
 BY: L. W.

SCALE: 1:300 (@A1)/ 1:600 (@A3)
 NORTH: MAGNETIC (by DP820312)
 DATUM: PM 2225 RL:11.841 (AHD)
 CONTOUR INT: 1.0MAJ/0.2MIN



NOTES

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LEGEND

	- GAS METER
	- HYDRANT
	- WATER METER
	- LIGHT POLE
	- SEWER MAN-HOLE
	- DRAINAGE PIT
	- SIGNPOST
	- GRATED DRAIN

<p>daw & walton CONSULTING SURVEYORS ABN 65 120 413 372</p>	<p>PO BOX 3222 REDFERN, NSW, 2016 Ph: (02) 8065 1156 Fax: (02) 8065 1297 Email: survey@daw-walton.com.au</p>	<p>DETAIL SURVEY @ KOOLOORA AVENUE, FRESHWATER NSW 2096</p> <p>CLIENT: FRESHWATER LIFE SAVING CLUB</p>	<p>JOB No: 3342-16</p>	<p>SCALE: 1:100 (@A1)/ 1:200 (@A3)</p>
			<p>SURVEYED ON: 16/11/2016 BY: L. W. & S. R.</p>	<p>NORTH: MAGNETIC (by DP820312)</p>
			<p>DRAWN ON: 18/11/2016 BY: L. W.</p>	<p>DATUM: PM 2225 RL:11.841 (AHD)</p>
				<p>CONTOUR INT: 1.0MAJ/0.2MIN</p>

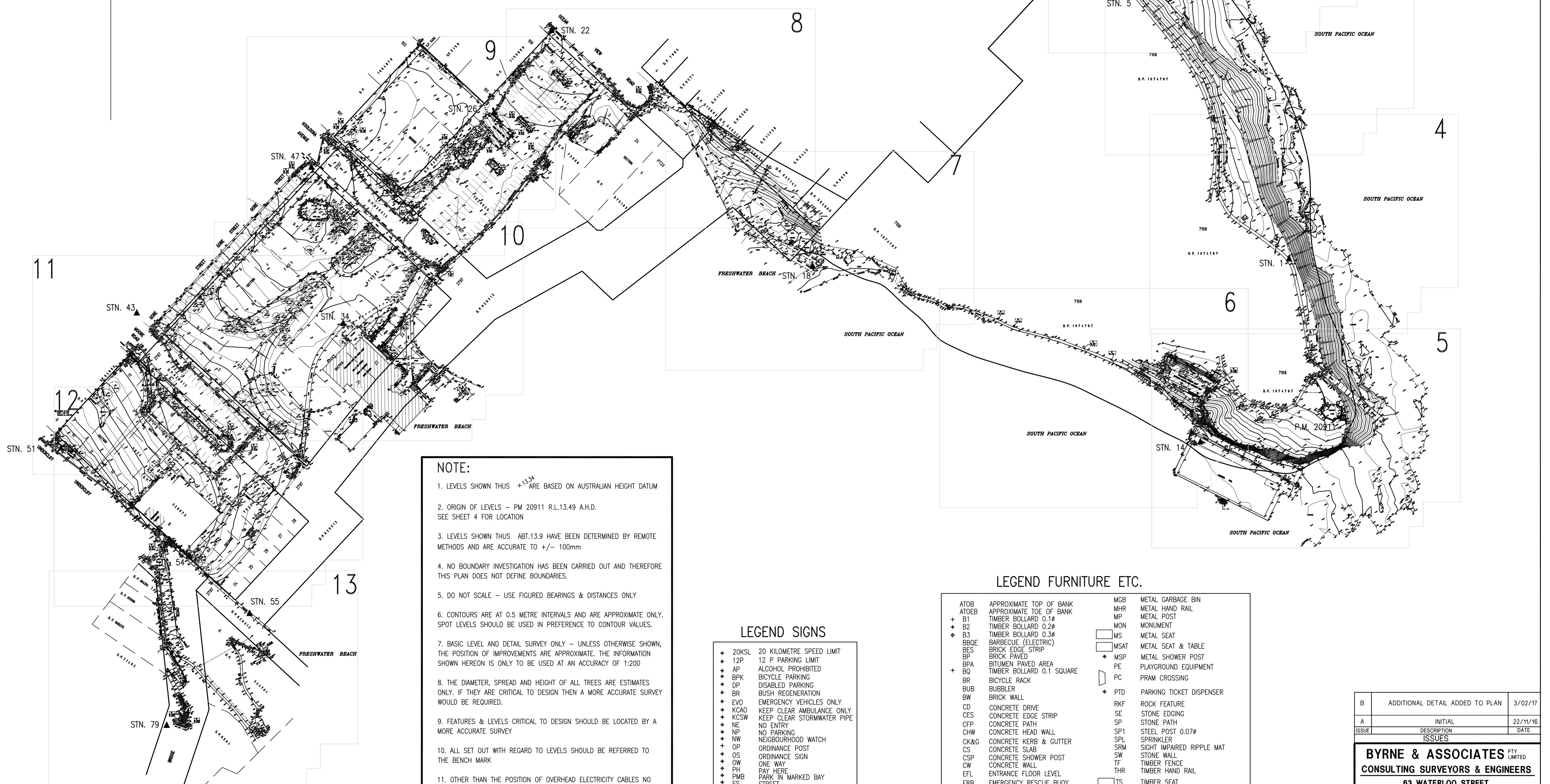
LEGEND SERVICES

+	CP	COMMUNICATION PIT	⊕	PFB	PUBLIC PHONE BOOTH
⊕	CPML	CONCRETE PIT WITH METAL LID	⊕	PP	POWER POLE
□	EB	ELECTRICITY BOX	⊕	PSK	PUMPING STATION KIOSK
⊕	EK	ELECTRICITY KIOSK	⊕	SAC	SEWER ACCESS CHAMBER
+	EP	ELECTRICITY PIT	⊕	SIP	SEWER INSPECTION PIT
+	FH	FIRE HYDRANT	+	SL	SPOT LIGHT
⊕	H	HYDRANT	⊕	SV	STOP VALVE
⊕	HLP	HEXAGONAL LIGHT POLE	⊕	SVP	STOP VENT PIPE
⊕	LP1	TIMBER LIGHT POST 0.3⊕	+	TAP	TAP
+	LPM1	METAL LIGHT POST 0.1⊕	+	TP	TELSTRA PIT
+	LPM2	METAL LIGHT POST 0.2⊕	⊕	USB	UNKNOWN SERVICE BOX
+	MCP	METAL COMMUNICATION POST 0.07⊕	⊕	USP	UNKNOWN SERVICE PIT
⊕	MSC	METAL SERVICE CUPBOARD	⊕	WM	WATER METER
			⊕	WMC	WATER METER CAGE
			⊕	WV	WATER VALVE

DRAINAGE LEGEND

CPL	DENOTES	CONCRETE DRAINAGE PIT LID
DAC	DENOTES	DRAINAGE ACCESS CHAMBER
DD	DENOTES	DISH DRAIN
DPT	DENOTES	DRAINAGE PIT
GD	DENOTES	GRADED DRAIN
GI	DENOTES	INVERT OF GRATE AT GUTTER
GL	DENOTES	GRATE LEVEL
GP	DENOTES	GULLY PIT
KI	DENOTES	KERB INLET LENGTH
PI	DENOTES	PIT INVERT
PTD	DENOTES	PIT INVERT INACCESSIBLE
TPI	DENOTES	TOP OF PIPE

MGA NTH



NOTE:

- LEVELS SHOWN THUS $+13.54$ ARE BASED ON AUSTRALIAN HEIGHT DATUM
- ORIGIN OF LEVELS - PM 20911 R.L.13.49 A.H.D. SEE SHEET 4 FOR LOCATION
- LEVELS SHOWN THUS APT.13.9 HAVE BEEN DETERMINED BY REMOTE METHODS AND ARE ACCURATE TO +/- 100mm
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- ORIGIN OF THE NORTH POINT IS THE MGA CO-ORDINATES OF P.M.20911 & SSM779.

LEGEND SIGNS

+	20KSL	20 KILOMETRE SPEED LIMIT
+	12P	12 P PARKING LIMIT
+	AP	ALCOHOL PROHIBITED
+	BPK	BICYCLE PARKING
+	DP	DISABLED PARKING
+	BR	BUSH REGENERATION
+	EVO	EMERGENCY VEHICLES ONLY
+	KCAD	KEEP CLEAR AMBULANCE ONLY
+	KOSW	KEEP CLEAR STORMWATER PIPE
+	NE	NO ENTRY
+	NP	NO PARKING
+	NW	NEIGHBOURHOOD WATCH
+	OP	ORDINANCE POST
+	OS	ORDINANCE SIGN
+	OW	ONE WAY
+	PH	PAY HERE
+	PMB	PARK IN MARKED BAY
+	SS	STREET

LEGEND FURNITURE ETC.

ATOB	APPROXIMATE TOP OF BANK	MGB	METAL GARBAGE BIN
ATOEB	APPROXIMATE TOE OF BANK	MHR	METAL HAND RAIL
+ B1	TIMBER BOLLARD 0.1⊕	MP	METAL POST
+ B2	TIMBER BOLLARD 0.2⊕	MON	MONUMENT
⊕ B3	TIMBER BOLLARD 0.3⊕	MS	METAL SEAT
BBQE	BARBECUE (ELECTRIC)	MSAT	METAL SEAT & TABLE
BES	BRICK EDGE STRIP	MSP	METAL SHOWER POST
BP	BRICK PAVED	PE	PLAYGROUND EQUIPMENT
BPA	BITUMEN PAVED AREA	PC	PRAM CROSSING
+ BQ	TIMBER BOLLARD 0.1 SQUARE	PTD	PARKING TICKET DISPENSER
BR	BICYCLE RACK	RK	ROCK FEATURE
BUB	BUBBLER	SE	STONE EDGING
BW	BRICK WALL	SP	STONE PATH
CD	CONCRETE DRIVE	SP1	STEEL POST 0.07⊕
CES	CONCRETE EDGE STRIP	SPL	SPRINKLER
CFP	CONCRETE PATH	SRM	SIGHT IMPAIRED RIPPLE MAT
CHW	CONCRETE HEAD WALL	SW	STONE WALL
CK&G	CONCRETE KERB & GUTTER	TF	TIMBER FENCE
CS	CONCRETE SLAB	THR	TIMBER HAND RAIL
CSP	CONCRETE SHOWER POST	TS	TIMBER SEAT
CW	CONCRETE WALL	TSAT	TIMBER SEAT & TABLE
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ERB	EMERGENCY RESCUE BUOY	TSFR	TIMBER SHELTER WITH FIBRO SHINGLE ROOF
KLPR	KOPPERS LOG POST & RAIL FENCE	TWL	TIMBER WALL
+ MB	METAL BOLLARD		
+ MBP	METAL BIN STAND		
⊕ MBS	METAL BENCH SEAT		
+ MBQ	METAL BOLLARD SQUARE		
MF	METAL FENCE		

— P — DENOTES APPROXIMATE POSITION OF ABOVE GROUND ELECTRICITY CABLES AS LOCATED BY SURVEY

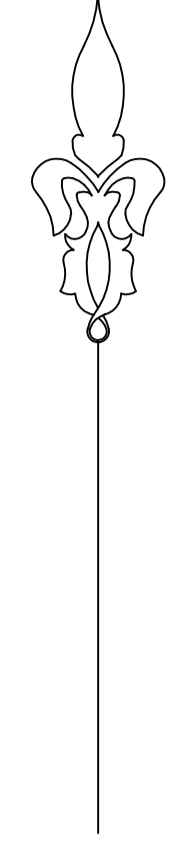
B	ADDITIONAL DETAIL ADDED TO PLAN	3/02/17
A	INITIAL	22/11/16
ISSUE	DESCRIPTION	DATE

BYRNE & ASSOCIATES PTY LIMITED
CONSULTING SURVEYORS & ENGINEERS
 63 WATERLOO STREET
 NARRABEEN 2101
 Ph: (02) 9913 7110 Fax: (02) 9913 1583
 Email: survey@byrneandassociates.com.au

LEVEL & DETAIL SURVEY OF
 SECTIONS 1, 2 & 3
 FRESHWATER BEACH,
 FRESHWATER



MGA NTH



LEGEND SERVICES

+	CP	COMMUNICATION PIT	⊕	PPB	PUBLIC PHONE BOOTH
□	CPML	CONCRETE PIT WITH METAL LID	⊕	PP	POWER POLE
□	EB	ELECTRICITY BOX	⊕	PSK	PUMPING STATION KIOSK
□	EK	ELECTRICITY KIOSK	⊕	SAC	SEWER ACCESS CHAMBER
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+	LPM1	METAL LIGHT POST 0.1⊕	+	TP	TELSTRA PIT
+	LPM2	METAL LIGHT POST 0.2⊕	+	USB	UNKNOWN SERVICE BOX
+	MCP	METAL COMMUNICATION POST 0.07⊕	+	USP	UNKNOWN SERVICE PIT
⊕	MSC	METAL SERVICE CUPBOARD	⊕	WM	WATER METER
			⊕	WMC	WATER METER CAGE
			⊕	WV	WATER VALVE

NOTE:

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LEGEND FURNITURE ETC.

ATOEB	APPROXIMATE TOP OF BANK	MGB	METAL GARBAGE BIN
+ B1	TIMBER BOLLARD 0.1⊕	MHR	METAL HAND RAIL
+ B2	TIMBER BOLLARD 0.2⊕	MP	METAL POST
⊕ B3	TIMBER BOLLARD 0.3⊕	MON	MONUMENT
BBQE	BARBECUE (ELECTRIC)	MS	METAL SEAT
BES	BRICK EDGE STRIP	MSAT	METAL SEAT & TABLE
BP	BRICK PAVED	MSP	METAL SHOWER POST
BPA	BITUMEN PAVED AREA	PE	PLAYGROUND EQUIPMENT
+ BQ	TIMBER BOLLARD 0.1 SQUARE	PC	PRAM CROSSING
BR	BICYCLE RACK	PTD	PARKING TICKET DISPENSER
BUB	BUBBLER	RKF	ROCK FEATURE
BW	BRICK WALL	SE	STONE EDGING
CD	CONCRETE DRIVE	SP	STONE PATH
CES	CONCRETE EDGE STRIP	SP1	STEEL POST 0.07⊕
CFP	CONCRETE PATH	SPL	SPRINKLER
CHW	CONCRETE HEAD WALL	SRM	SIGHT IMPAIRED RIPPLE MAT
CK&G	CONCRETE KERB & GUTTER	SW	STONE WALL
CS	CONCRETE SLAB	TF	TIMBER FENCE
CSP	CONCRETE SHOWER POST	THR	TIMBER HAND RAIL
CW	CONCRETE WALL	TS	TIMBER SEAT
EFL	ENTRANCE FLOOR LEVEL	TSAT	TIMBER SEAT & TABLE
ERB	EMERGENCY RESCUE BUOY	TSMR	TIMBER SHELTER WITH METAL ROOF
KLPR	KOPPERS LOG POST & RAIL FENCE	TSFR	TIMBER SHELTER WITH FIBRO SHINGLE ROOF
+ MB	METAL BOLLARD	TWL	TIMBER WALL
+ MBP	METAL BIN STAND		
+ MBS	METAL BENCH SEAT		
+ MBQ	METAL BOLLARD SQUARE		
MF	METAL FENCE		

LEGEND SIGNS

+ 20KSL	20 KILOMETRE SPEED LIMIT
+ 12P	12 P PARKING LIMIT
+ AP	ALCOHOL PROHIBITED
+ BP	BICYCLE PARKING
+ DP	DISABLED PARKING
+ BR	BUSH REGENERATION
+ EVO	EMERGENCY VEHICLES ONLY
+ KCAO	KEEP CLEAR AMBULANCE ONLY
+ KCSW	KEEP CLEAR STORMWATER PIPE
+ NE	NO ENTRY
+ NP	NO PARKING
+ NW	NEIGHBOURHOOD WATCH
+ OP	ORDINANCE POST
+ OS	ORDINANCE SIGN
+ OW	ONE WAY
+ PH	PAY HERE
+ PMB	PARK IN MARKED BAY
+ SS	STREET

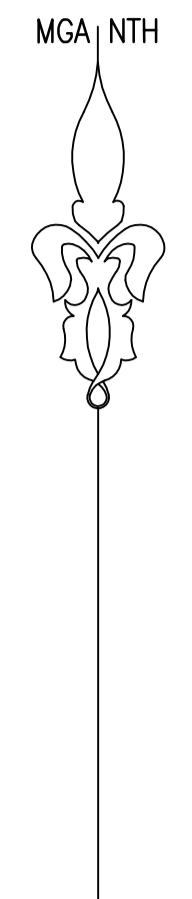
DRAINAGE LEGEND

CPL	DENOTES CONCRETE DRAINAGE PIT LID
DAC	DENOTES DRAINAGE ACCESS CHAMBER
DD	DENOTES DISH DRAIN
DPT	DENOTES DRAINAGE PIT
GD	DENOTES GRATED DRAIN
GI	DENOTES INVERT OF GRATE AT GUTTER
GL	DENOTES GRATE LEVEL
GP	DENOTES GULLEY PIT
KI	DENOTES KERB INLET LENGTH
PI	DENOTES PIT INVERT
PTD	DENOTES PIT INVERT INACCESSIBLE
TPI	DENOTES TOP OF PIPE

STN. 5
DRILL HOLE IN
CONCRETE PATH
EASTING 342,039.44
NORTHING 6,261,008.41
R.L. 17.11 A.H.D.

B	ADDITIONAL DETAIL ADDED TO PLAN	3/02/17									
A	INITIAL	22/11/16									
ISSUE	DESCRIPTION	DATE									
ISSUES											
BYRNE & ASSOCIATES PTY LIMITED											
CONSULTING SURVEYORS & ENGINEERS											
63 WATERLOO STREET NARRABEEN 2101											
Ph: (02) 9913 7110 Fax: (02) 9913 1583 Email: survey@byrneandassociates.com.au											
LEVEL & DETAIL SURVEY OF SECTIONS 1, 2 & 3 FRESHWATER BEACH, FRESHWATER											
Date of Survey	NOVEMBER 2016	Prepared by	PBB	Date	22/11/16	Approved by		Date		R/R	1:200
File Name	1083702.DWG	Sheet	2	13	Sheets	Plan No. A1 - 1083702					





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		WMC	WATER METER CAGE
		WV	WATER VALVE

SOUTH PACIFIC OCEAN

— P — DENOTES APPROXIMATE POSITION OF ABOVE GROUND ELECTRICITY CABLES AS LOCATED BY SURVEY

LEGEND FURNITURE ETC.

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BUB	BUBBLER	SE	STONE EDGING
BW	BRICK WALL	SP	STONE PATH
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KLPR	KOPPERS LOG POST & RAIL FENCE	TWL	TIMBER WALL
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PTD	DENOTES PIT INVERT INACCESSIBLE
TPI	DENOTES TOP OF PIPE

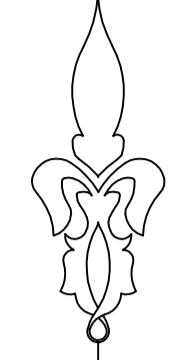
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D. P. 1074767

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ISSUE	DESCRIPTION	DATE									
ISSUES											
BYRNE & ASSOCIATES PTY LIMITED											
CONSULTING SURVEYORS & ENGINEERS											
63 WATERLOO STREET NARRABEEN 2101											
Ph: (02) 9913 7110 Email: survey@byrneandassociates.com.au											
Fax: (02) 9913 1583											
LEVEL & DETAIL SURVEY OF SECTIONS 1, 2 & 3 FRESHWATER BEACH, FRESHWATER											
Date of Survey	NOVEMBER 2016	Prepared by	PBB	Date	22/11/16	Approved by		Date		R.R.	1:200
File Name	1083702.DWG	Sheet	3	13	Sheets	Plan No.	A1 - 1083702				



MGA | NTH



NOTE:

- LEVELS SHOWN THUS $+13.34$ ARE BASED ON AUSTRALIAN HEIGHT DATUM
- ORIGIN OF LEVELS - PM 20911 R.L.13.49 A.H.D. SEE SHEET 4 FOR LOCATION
- LEVELS SHOWN THUS $ABT.13.9$ HAVE BEEN DETERMINED BY REMOTE METHODS AND ARE ACCURATE TO +/- 100mm
- NO BOUNDARY INVESTIGATION HAS BEEN CARRIED OUT AND THEREFORE THIS PLAN DOES NOT DEFINE BOUNDARIES.
- DO NOT SCALE - USE FIGURED BEARINGS & DISTANCES ONLY
- CONTOURS ARE AT 0.5 METRE INTERVALS AND ARE APPROXIMATE ONLY. SPOT LEVELS SHOULD BE USED IN PREFERENCE TO CONTOUR VALUES.
- BASIC LEVEL AND DETAIL SURVEY ONLY - UNLESS OTHERWISE SHOWN, THE POSITION OF IMPROVEMENTS ARE APPROXIMATE. THE INFORMATION SHOWN HEREON IS ONLY TO BE USED AT AN ACCURACY OF 1:200
- THE DIAMETER, SPREAD AND HEIGHT OF ALL TREES ARE ESTIMATES ONLY. IF THEY ARE CRITICAL TO DESIGN THEN A MORE ACCURATE SURVEY WOULD BE REQUIRED.
- FEATURES & LEVELS CRITICAL TO DESIGN SHOULD BE LOCATED BY A MORE ACCURATE SURVEY
- ALL SET OUT WITH REGARD TO LEVELS SHOULD BE REFERRED TO THE BENCH MARK
- OTHER THAN THE POSITION OF OVERHEAD ELECTRICITY CABLES NO OTHER SERVICE AUTHORITY SERVICE LINES HAVE BEEN PLOTTED. THIS IS DUE TO THE LACK OF INFORMATION ON SITE THAT WOULD ASSIST IN PLOTTING THE POSITION OF THE SERVICE LINES. (REFER TO NOTE 12).
- EXISTING SERVICES MAY IMPACT ON DESIGN/CONSTRUCTION - IT IS ADVISED THAT A COMPREHENSIVE SERVICES SEARCH BE CARRIED OUT PRIOR TO COMMENCEMENT OF DESIGN/CONSTRUCTION REFER "DIAL BEFORE YOU DIG" DETAILS ON THIS PLAN
- ORIGIN OF THE NORTH POINT IS THE MGA CO-ORDINATES OF P.M.20911 & SSM779.

7108

D. P. 1 0 7 4 7 6 7

LEGEND SERVICES

+	CP	COMMUNICATION PIT	⊕	PFB	PUBLIC PHONE BOOTH
□	CPML	CONCRETE PIT WITH METAL LID	⊕	PP	POWER POLE
□	EB	ELECTRICITY BOX	⊕	PSK	PUMPING STATION KIOSK
□	EK	ELECTRICITY KIOSK	⊕	SAC	SEWER ACCESS CHAMBER
+	EP	ELECTRICITY PIT	⊕	SIP	SEWER INSPECTION PIT
+	FH	FIRE HYDRANT	+	SL	SPOT LIGHT
⊕	H	HYDRANT	⊕	SV	STOP VALVE
⊕	HLP	HEXAGONAL LIGHT POLE	⊕	SVP	STOP VENT PIPE
⊕	LP1	TIMBER LIGHT POST 0.30	+	TAP	TAP
+	LPM1	METAL LIGHT POST 0.10	+	TP	TELSTRA PIT
+	LPM2	METAL LIGHT POST 0.20	⊕	USB	UNKNOWN SERVICE BOX
+	MCP	METAL COMMUNICATION POST 0.070	+	USP	UNKNOWN SERVICE PIT
⊕	MSC	METAL SERVICE CUPBOARD	⊕	WM	WATER METER
			⊕	WMC	WATER METER CAGE
			⊕	WV	WATER VALVE

SOUTH PACIFIC OCEAN

DRAINAGE LEGEND

CPL	DENOTES CONCRETE DRAINAGE PIT LID
DAC	DENOTES DRAINAGE ACCESS CHAMBER
DD	DENOTES DISH DRAIN
DPT	DENOTES DRAINAGE PIT
GD	DENOTES GRATED DRAIN
GI	DENOTES INVERT OF GRATE AT GUTTER
GL	DENOTES GRATE LEVEL
GP	DENOTES GULLY PIT
KI	DENOTES KERB INLET LENGTH
PT	DENOTES PIT INVERT
PTD	DENOTES PIT INVERT INACCESSIBLE
TPI	DENOTES TOP OF PIPE

— P — DENOTES APPROXIMATE POSITION OF ABOVE GROUND ELECTRICITY CABLES AS LOCATED BY SURVEY

LEGEND SIGNS

+	20KSL	20 KILOMETRE SPEED LIMIT
+	12P	12 P PARKING LIMIT
+	AP	ALCOHOL PROHIBITED
+	BPK	BICYCLE PARKING
+	DP	DISABLED PARKING
+	BR	BUSH REGENERATION
+	EVO	EMERGENCY VEHICLES ONLY
+	KCAO	KEEP CLEAR AMBULANCE ONLY
+	KCSW	KEEP CLEAR STORMWATER PIPE
+	NE	NO ENTRY
+	NP	NO PARKING
+	NW	NEIGHBOURHOOD WATCH
+	OP	ORDNANCE POST
+	OS	ORDNANCE SIGN
+	OW	ONE WAY
+	PH	PAY HERE
+	PMB	PARK IN MARKED BAY
+	SS	STREET

LEGEND FURNITURE ETC.

ATOEB	APPROXIMATE TOP OF BANK	MGB	METAL GARBAGE BIN
+ B1	TIMBER BOLLARD 0.10	MHR	METAL HAND RAIL
+ B2	TIMBER BOLLARD 0.20	MP	METAL POST
+ B3	TIMBER BOLLARD 0.30	MON	MONUMENT
⊕ BBQE	BARBECUE (ELECTRIC)	MS	METAL SEAT
BES	BRICK EDGE STRIP	MSAT	METAL SEAT & TABLE
BP	BRICK PAVED	+ MSP	METAL SHOWER POST
BPA	BITUMEN PAVED AREA	PE	PLAYGROUND EQUIPMENT
+ BQ	TIMBER BOLLARD 0.1 SQUARE	PC	PRAM CROSSING
BR	BICYCLE RACK	+ PTD	PARKING TICKET DISPENSER
BUB	BUBBLER	RKF	ROCK FEATURE
BW	BRICK WALL	SE	STONE EDGING
CD	CONCRETE DRIVE	SP	STONE PATH
CES	CONCRETE EDGE STRIP	SP1	STEEL POST 0.070
CFP	CONCRETE PATH	SPL	SPRINKLER
CHW	CONCRETE HEAD WALL	SRM	SIGHT IMPAIRED RIPPLE MAT
CK&G	CONCRETE KERB & GUTTER	SW	STONE WALL
CS	CONCRETE SLAB	TF	TIMBER FENCE
CSP	CONCRETE SHOWER POST	THR	TIMBER HAND RAIL
CW	CONCRETE WALL	TS	TIMBER SEAT
EFL	ENTRANCE FLOOR LEVEL	TSAT	TIMBER SEAT & TABLE
ERB	EMERGENCY RESCUE BUOY	TSMR	TIMBER SHELTER WITH METAL ROOF
KLPR	KOPPERS LOG POST & RAIL FENCE	TSFR	TIMBER SHELTER WITH FIBRO SHINGLE ROOF
+ MB	METAL BOLLARD	TWL	TIMBER WALL
+ MBP	METAL BIN STAND		
□ MBS	METAL BENCH SEAT		
+ MBO	METAL BOLLARD SQUARE		
MF	METAL FENCE		

STN. 1
DRILL HOLE IN
CONCRETE PATH
EASTING 342,121.60
NORTHING 6,260,870.41
R.L. 15.70 A.H.D.



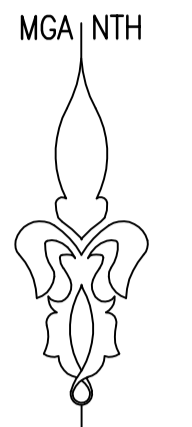
B	ADDITIONAL DETAIL ADDED TO PLAN	3/02/17
A	INITIAL	22/11/16
ISSUE	DESCRIPTION	DATE

BYRNE & ASSOCIATES PTY. LIMITED
CONSULTING SURVEYORS & ENGINEERS
 63 WATERLOO STREET
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 Email: survey@byrneandassociates.com.au

LEVEL & DETAIL SURVEY OF SECTIONS 1, 2 & 3 FRESHWATER BEACH, FRESHWATER

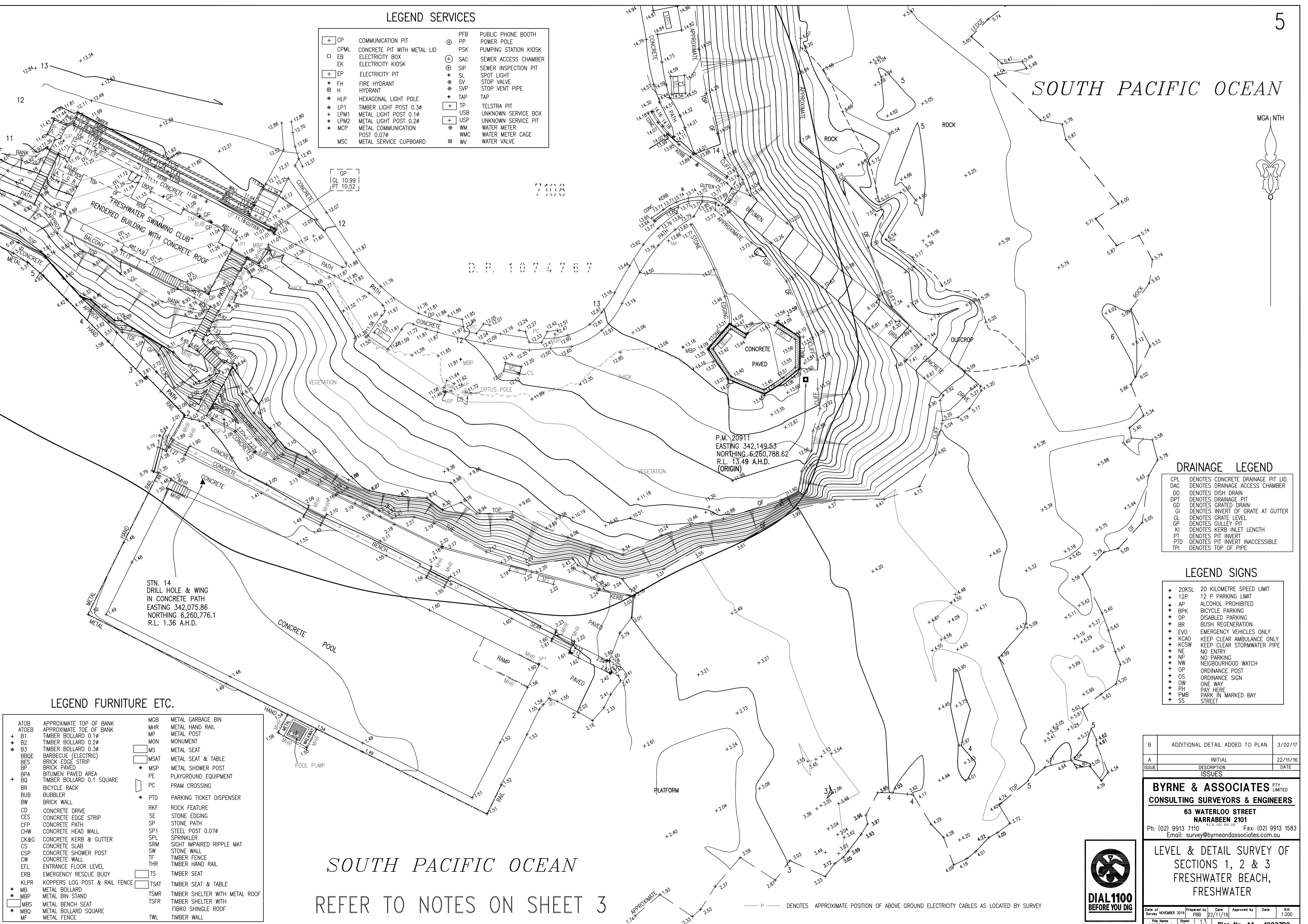
Date of Survey	NOVEMBER 2016	Prepared by	PBB	Date	22/11/16	Approved by		Date		R/R	1:200
File Name	1083702.DWG	Sheet	4	13	Sheets					Plan No.	A1 - 1083702

SOUTH PACIFIC OCEAN



LEGEND SERVICES

+	CP	COMMUNICATION PIT	⊕	PFB	PUBLIC PHONE BOOTH
□	CPML	CONCRETE PIT WITH METAL LID	⊕	PP	POWER POLE
□	EB	ELECTRICITY BOX	⊕	PSK	PUMPING STATION KIOSK
+	EK	ELECTRICITY KIOSK	⊕	SAC	SEWER ACCESS CHAMBER
+	EP	ELECTRICITY PIT	⊕	SIP	SEWER INSPECTION PIT
+	FH	FIRE HYDRANT	⊕	SL	SPOT LIGHT
+	H	HYDRANT	⊕	SV	STOP VALVE
+	HLP	HEXAGONAL LIGHT POLE	⊕	SVP	STOP VENT PIPE
+	LP1	TIMBER LIGHT POST 0.3⊕	+	TAP	TAP
+	LPM1	METAL LIGHT POST 0.1⊕	+	TP	TELSTRA PIT
+	LPM2	METAL LIGHT POST 0.2⊕	+	USB	UNKNOWN SERVICE BOX
+	MCP	METAL COMMUNICATION POST 0.07⊕	+	USP	UNKNOWN SERVICE PIT
+	MSC	METAL SERVICE CUPBOARD	⊕	WM	WATER METER
			⊕	WMC	WATER METER CAGE
			⊕	WV	WATER VALVE



D. P. 1074767

DRAINAGE LEGEND

CPL	DENOTES CONCRETE DRAINAGE PIT LID
DAC	DENOTES DRAINAGE ACCESS CHAMBER
DD	DENOTES DISH DRAIN
DPT	DENOTES DRAINAGE PIT
GD	DENOTES GRATED DRAIN
GI	DENOTES INVERT OF GRATE AT GUTTER
GL	DENOTES GRATE LEVEL
GP	DENOTES GULLY PIT
KI	DENOTES KERB INLET LENGTH
PT	DENOTES PIT INVERT
PTD	DENOTES PIT INVERT INACCESSIBLE
TPI	DENOTES TOP OF PIPE

LEGEND SIGNS

+	20KSL	20 KILOMETRE SPEED LIMIT
+	12P	12 P PARKING LIMIT
+	AP	ALCOHOL PROHIBITED
+	BPK	BICYCLE PARKING
+	DP	DISABLED PARKING
+	BR	BUSH REGENERATION
+	EVO	EMERGENCY VEHICLES ONLY
+	KCAO	KEEP CLEAR AMBULANCE ONLY
+	KCSW	KEEP CLEAR STORMWATER PIPE
+	NE	NO ENTRY
+	NP	NO PARKING
+	NW	NEIGHBOURHOOD WATCH
+	OP	ORDINANCE POST
+	OS	ORDINANCE SIGN
+	OW	ONE WAY
+	PB	PAY HERE
+	PMB	PARK IN MARKED BAY
+	SS	STREET

LEGEND FURNITURE ETC.

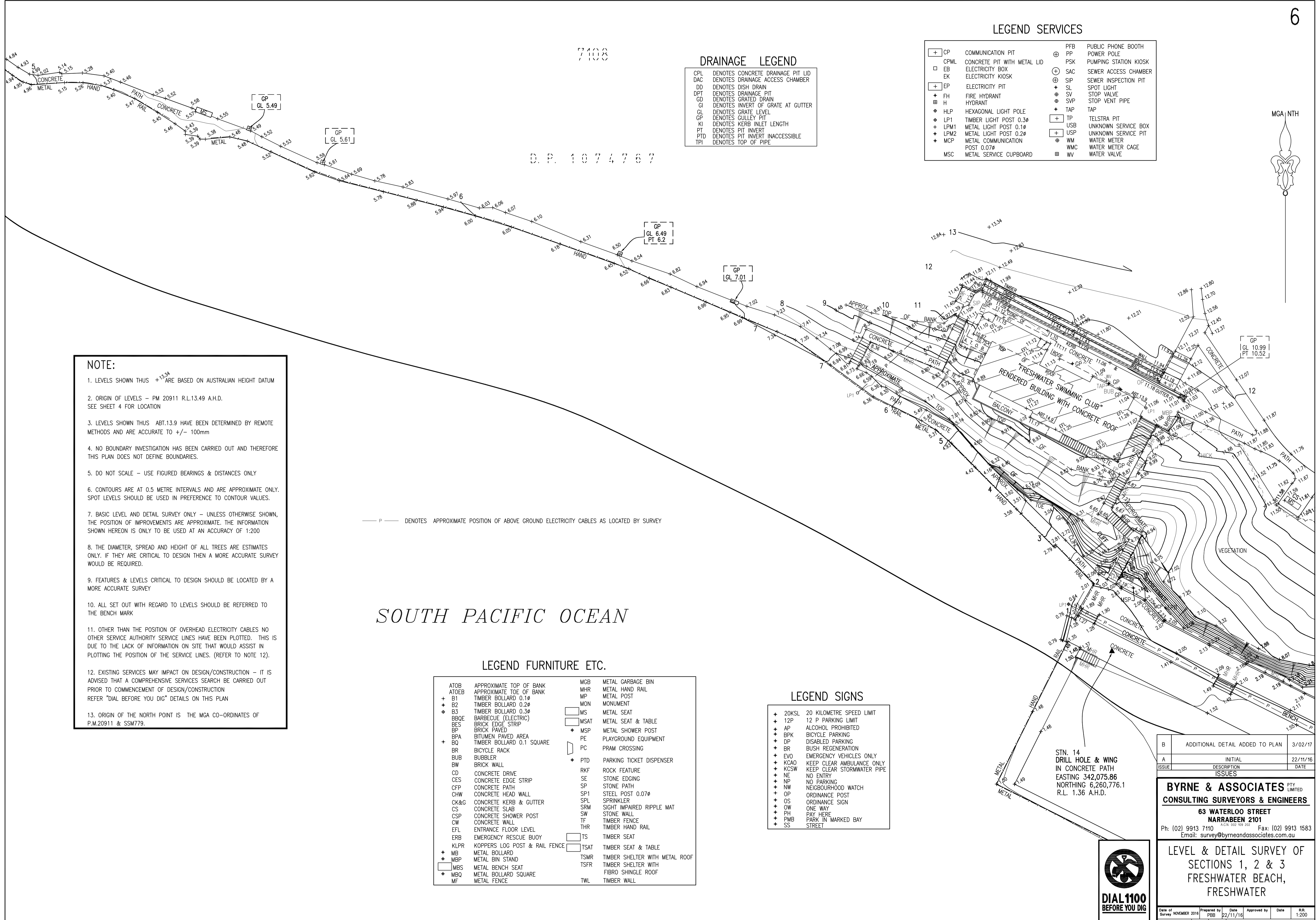
ATOAB	APPROXIMATE TOP OF BANK	MGB	METAL GARBAGE BIN
ATOEB	APPROXIMATE TOE OF BANK	MHR	METAL HAND RAIL
B1	TIMBER BOLLARD 0.1⊕	MP	METAL POST
B2	TIMBER BOLLARD 0.2⊕	MON	MONUMENT
B3	TIMBER BOLLARD 0.3⊕	MS	METAL SEAT
BBQE	BARBECUE (ELECTRIC)	MSAT	METAL SEAT & TABLE
BES	BRICK EDGE STRIP	MSP	METAL SHOWER POST
BP	BRICK PAVED	PE	PLAYGROUND EQUIPMENT
BPA	BITUMEN PAVED AREA	PC	PRAM CROSSING
BQ	TIMBER BOLLARD 0.1 SQUARE	PTD	PARKING TICKET DISPENSER
BR	BICYCLE RACK	RKF	ROCK FEATURE
BUB	BUBBLER	SE	STONE EDGING
BW	BRICK WALL	SP	STONE PATH
CD	CONCRETE DRIVE	SP1	STEEL POST 0.07⊕
CES	CONCRETE EDGE STRIP	SPL	SPRINKLER
CFP	CONCRETE PATH	SRM	SIGHT IMPAIRED RIPPLE MAT
CHW	CONCRETE HEAD WALL	SW	STONE WALL
CK&G	CONCRETE KERB & GUTTER	TF	TIMBER FENCE
CS	CONCRETE SLAB	THR	TIMBER HAND RAIL
CSP	CONCRETE SHOWER POST	TS	TIMBER SEAT
CW	CONCRETE WALL	TSAT	TIMBER SEAT & TABLE
EFL	ENTRANCE FLOOR LEVEL	TSMR	TIMBER SHELTER WITH METAL ROOF
ERB	EMERGENCY RESCUE BUOY	TSFR	TIMBER SHELTER WITH FIBRO SHINGLE ROOF
KLPR	KOPPERS LOG POST & RAIL FENCE	TWL	TIMBER WALL
MB	METAL BOLLARD		
MBP	METAL BIN STAND		
MBS	METAL BENCH SEAT		
MBQ	METAL BOLLARD SQUARE		
MF	METAL FENCE		

SOUTH PACIFIC OCEAN
REFER TO NOTES ON SHEET 3



B	ADDITIONAL DETAIL ADDED TO PLAN	3/02/17									
A	INITIAL	22/11/16									
ISSUE	DESCRIPTION	DATE									
ISSUES											
BYRNE & ASSOCIATES PTY LIMITED											
CONSULTING SURVEYORS & ENGINEERS											
63 WATERLOO STREET NARRABEEN 2101											
Ph: (02) 9913 7110 Fax: (02) 9913 1583 Email: survey@byrneandassociates.com.au											
LEVEL & DETAIL SURVEY OF SECTIONS 1, 2 & 3 FRESHWATER BEACH, FRESHWATER											
Date of Survey	NOVEMBER 2016	Prepared by	PBB	Date	22/11/16	Approved by		Date		R.R.	1:200
File Name	1083702.DWG	Sheet	5	13	Sheets	Plan No.	A1 - 1083702				

— P — DENOTES APPROXIMATE POSITION OF ABOVE GROUND ELECTRICITY CABLES AS LOCATED BY SURVEY



7108

D. P. 1074767

LEGEND SERVICES

+	CP	COMMUNICATION PIT	⊕	PFB	PUBLIC PHONE BOOTH
□	CPML	CONCRETE PIT WITH METAL LID	⊕	PP	POWER POLE
⊕	EB	ELECTRICITY BOX	⊕	PSK	PUMPING STATION KIOSK
⊕	EK	ELECTRICITY KIOSK	⊕	SAC	SEWER ACCESS CHAMBER
+	EP	ELECTRICITY PIT	⊕	SIP	SEWER INSPECTION PIT
+	FH	FIRE HYDRANT	+	SL	SPOT LIGHT
⊕	H	HYDRANT	⊕	SV	STOP VALVE
⊕	HLP	HEXAGONAL LIGHT POLE	⊕	SVP	STOP VENT PIPE
⊕	LP1	TIMBER LIGHT POST 0.3⊕	+	TAP	TAP
+	LPM1	METAL LIGHT POST 0.1⊕	+	TP	TELSTRA PIT
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⊕	MSC	METAL SERVICE CUPBOARD	⊕	WM	WATER METER
			⊕	WMC	WATER METER CAGE
			⊕	WV	WATER VALVE

DRAINAGE LEGEND

CPL	DENOTES CONCRETE DRAINAGE PIT LID
DAC	DENOTES DRAINAGE ACCESS CHAMBER
DD	DENOTES DISH DRAIN
DPT	DENOTES DRAINAGE PIT
GD	DENOTES GRATED DRAIN
GI	DENOTES INVERT OF GRATE AT GUTTER
GL	DENOTES GRATE LEVEL
GP	DENOTES GULLEY PIT
KI	DENOTES KERB INLET LENGTH
PT	DENOTES PIT INVERT
PTD	DENOTES PIT INVERT INACCESSIBLE
TPI	DENOTES TOP OF PIPE

NOTE:

- LEVELS SHOWN THUS +13.34 ARE BASED ON AUSTRALIAN HEIGHT DATUM
- ORIGIN OF LEVELS - PM 20911 R.L.13.49 A.H.D. SEE SHEET 4 FOR LOCATION
- LEVELS SHOWN THUS ABT.13.9 HAVE BEEN DETERMINED BY REMOTE METHODS AND ARE ACCURATE TO +/- 100mm
- NO BOUNDARY INVESTIGATION HAS BEEN CARRIED OUT AND THEREFORE THIS PLAN DOES NOT DEFINE BOUNDARIES.
- DO NOT SCALE - USE FIGURED BEARINGS & DISTANCES ONLY
- CONTOURS ARE AT 0.5 METRE INTERVALS AND ARE APPROXIMATE ONLY. SPOT LEVELS SHOULD BE USED IN PREFERENCE TO CONTOUR VALUES.
- BASIC LEVEL AND DETAIL SURVEY ONLY - UNLESS OTHERWISE SHOWN, THE POSITION OF IMPROVEMENTS ARE APPROXIMATE. THE INFORMATION SHOWN HEREON IS ONLY TO BE USED AT AN ACCURACY OF 1:200
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- FEATURES & LEVELS CRITICAL TO DESIGN SHOULD BE LOCATED BY A MORE ACCURATE SURVEY
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- ORIGIN OF THE NORTH POINT IS THE MGA CO-ORDINATES OF P.M.20911 & SSM779.

— P — DENOTES APPROXIMATE POSITION OF ABOVE GROUND ELECTRICITY CABLES AS LOCATED BY SURVEY

SOUTH PACIFIC OCEAN

LEGEND FURNITURE ETC.

ATOEB	APPROXIMATE TOP OF BANK	MGB	METAL GARBAGE BIN
+	B1	MHR	METAL HAND RAIL
+	B2	MP	METAL POST
+	B3	MON	MONUMENT
⊕	BBQE	MS	METAL SEAT
BES	BRICK EDGE STRIP	MSAT	METAL SEAT & TABLE
BP	BRICK PAVED	MSP	METAL SHOWER POST
BPA	BITUMEN PAVED AREA	PE	PLAYGROUND EQUIPMENT
+	BQ	PC	PRAM CROSSING
BR	BICYCLE RACK	PTD	PARKING TICKET DISPENSER
BUB	BUBBLER	RKF	ROCK FEATURE
BW	BRICK WALL	SE	STONE EDGING
CD	CONCRETE DRIVE	SP	STONE PATH
CES	CONCRETE EDGE STRIP	SP1	STEEL POST 0.07⊕
CFP	CONCRETE PATH	SPL	SPRINKLER
CHW	CONCRETE HEAD WALL	SRM	SIGHT IMPAIRED RIPPLE MAT
CK&G	CONCRETE KERB & GUTTER	SW	STONE WALL
CS	CONCRETE SLAB	TF	TIMBER FENCE
CSP	CONCRETE SHOWER POST	THR	TIMBER HAND RAIL
CW	CONCRETE WALL	TS	TIMBER SEAT
EFL	ENTRANCE FLOOR LEVEL	TSAT	TIMBER SEAT & TABLE
ERB	EMERGENCY RESCUE BUOY	TSMR	TIMBER SHELTER WITH METAL ROOF
KLPR	KOPPERS LOG POST & RAIL FENCE	TSFR	TIMBER SHELTER WITH FIBRO SHINGLE ROOF
+	MB	TWL	TIMBER WALL
+	MBP		
+	MBS		
+	MBQ		
+	MF		

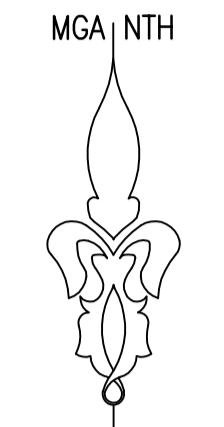
LEGEND SIGNS

+	20KSL	20 KILOMETRE SPEED LIMIT
+	12P	12 P PARKING LIMIT
+	AP	ALCOHOL PROHIBITED
+	BPK	BICYCLE PARKING
+	DP	DISABLED PARKING
+	BR	BUSH REGENERATION
+	EVO	EMERGENCY VEHICLES ONLY
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+	KCSW	KEEP CLEAR STORMWATER PIPE
+	NE	NO ENTRY
+	NP	NO PARKING
+	NW	NEIGHBOURHOOD WATCH
+	OP	ORDINANCE POST
+	OS	ORDINANCE SIGN
+	OW	ONE WAY
+	PH	PAY HERE
+	PMB	PARK IN MARKED BAY
+	SS	STREET

STN. 14
DRILL HOLE & WING
IN CONCRETE PATH
EASTING 342,075.86
NORTHING 6,260,776.1
R.L. 1.36 A.H.D.



B	ADDITIONAL DETAIL ADDED TO PLAN	3/02/17									
A	INITIAL	22/11/16									
ISSUE	DESCRIPTION	DATE									
ISSUES											
BYRNE & ASSOCIATES PTY LIMITED											
CONSULTING SURVEYORS & ENGINEERS											
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Ph: (02) 9913 7110 Fax: (02) 9913 1583 Email: survey@byrneandassociates.com.au											
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File Name	1083702.DWG	Sheet	6	13	Sheets		Plan No.	A1 - 1083702			



FRESHWATER BEACH

LEGEND SIGNS

+ 20KSL	20 KILOMETRE SPEED LIMIT
+ 12P	12 P PARKING LIMIT
+ AP	ALCOHOL PROHIBITED
+ BPK	BICYCLE PARKING
+ DP	DISABLED PARKING
+ BR	BUSH REGENERATION
+ EVO	EMERGENCY VEHICLES ONLY
+ KCAO	KEEP CLEAR AMBULANCE ONLY
+ KCSW	KEEP CLEAR STORMWATER PIPE
+ NE	NO ENTRY
+ NP	NO PARKING
+ NW	NEIGHBOURHOOD WATCH
+ OP	ORDINANCE POST
+ OS	ORDINANCE SIGN
+ OW	ONE WAY
+ PH	PAY HERE
+ PMB	PARK IN MARKED BAY
+ SS	STREET

DRAINAGE LEGEND

CPL	DENOTES CONCRETE DRAINAGE PIT LID
DAC	DENOTES DRAINAGE ACCESS CHAMBER
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GL	DENOTES GRATE LEVEL
GP	DENOTES GULLEY PIT
KI	DENOTES KERB INLET LENGTH
PT	DENOTES PIT INVERT
PTI	DENOTES PIT INVERT INACCESSIBLE
TPI	DENOTES TOP OF PIPE

LEGEND FURNITURE ETC.

ATOAB	APPROXIMATE TOP OF BANK	MGB	METAL GARBAGE BIN
ATOEB	APPROXIMATE TOE OF BANK	MHR	METAL HAND RAIL
+ B1	TIMBER BOLLARD 0.18	MP	METAL POST
+ B2	TIMBER BOLLARD 0.28	MON	MONUMENT
+ B3	TIMBER BOLLARD 0.38	MS	METAL SEAT
BBQE	BARBECUE (ELECTRIC)	MSAT	METAL SEAT & TABLE
BES	BRICK EDGE STRIP	+ MSP	METAL SHOWER POST
BP	BRICK PAVED	PE	PLAYGROUND EQUIPMENT
BPA	BITUMEN PAVED AREA	PC	PRAM CROSSING
BQ	TIMBER BOLLARD 0.1 SQUARE	+ PTD	PARKING TICKET DISPENSER
BR	BICYCLE RACK	RKF	ROCK FEATURE
BUB	BUBBLER	SE	STONE EDGING
BW	BRICK WALL	SP	STONE PATH
CD	CONCRETE DRIVE	SP1	STEEL POST 0.07#
CES	CONCRETE EDGE STRIP	SPL	SPRINKLER
CFP	CONCRETE PATH	SRM	SIGHT IMPAIRED RIPPLE MAT
CHW	CONCRETE HEAD WALL	SW	STONE WALL
CK&G	CONCRETE KERB & GUTTER	TF	TIMBER FENCE
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EFL	ENTRANCE FLOOR LEVEL	TSMR	TIMBER SHELTER WITH METAL ROOF
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+ MB	METAL BOLLARD		
+ MBP	METAL BIN STAND		
MBS	METAL BENCH SEAT		
+ MBQ	METAL BOLLARD SQUARE		
MF	METAL FENCE		

LEGEND SERVICES

+ CP	COMMUNICATION PIT	⊕ PFB	PUBLIC PHONE BOOTH
CPML	CONCRETE PIT WITH METAL LID	PP	POWER POLE
EB	ELECTRICITY BOX	PSK	PUMPING STATION KIOSK
EK	ELECTRICITY KIOSK	⊕ SAC	SEWER ACCESS CHAMBER
+ EP	ELECTRICITY PIT	⊕ SIP	SEWER INSPECTION PIT
+ FH	FIRE HYDRANT	+ SL	SPOT LIGHT
H	HYDRANT	⊕ SV	STOP VALVE
+ HLP	HEXAGONAL LIGHT POLE	⊕ SVP	STOP VENT PIPE
+ LP1	TIMBER LIGHT POST 0.3#	+ TAP	TAP
+ LPM1	METAL LIGHT POST 0.1#	⊕ TP	TELSTRA PIT
+ LPM2	METAL LIGHT POST 0.2#	USB	UNKNOWN SERVICE BOX
+ MCP	METAL COMMUNICATION POST 0.07#	+ USP	UNKNOWN SERVICE PIT
MSC	METAL SERVICE CUPBOARD	⊕ WM	WATER METER
		⊕ WMC	WATER METER CAGE
		⊕ WV	WATER VALVE

NOTE:

- LEVELS SHOWN THUS +13.34 ARE BASED ON AUSTRALIAN HEIGHT DATUM
- ORIGIN OF LEVELS - PM 20911 R.L.13.49 A.H.D. SEE SHEET 4 FOR LOCATION
- LEVELS SHOWN THUS ABT.13.9 HAVE BEEN DETERMINED BY REMOTE METHODS AND ARE ACCURATE TO +/- 100mm
- NO BOUNDARY INVESTIGATION HAS BEEN CARRIED OUT AND THEREFORE THIS PLAN DOES NOT DEFINE BOUNDARIES.
- DO NOT SCALE - USE FIGURED BEARINGS & DISTANCES ONLY
- CONTOURS ARE AT 0.5 METRE INTERVALS AND ARE APPROXIMATE ONLY. SPOT LEVELS SHOULD BE USED IN PREFERENCE TO CONTOUR VALUES.
- BASIC LEVEL AND DETAIL SURVEY ONLY - UNLESS OTHERWISE SHOWN, THE POSITION OF IMPROVEMENTS ARE APPROXIMATE. THE INFORMATION SHOWN HEREON IS ONLY TO BE USED AT AN ACCURACY OF 1:200
- THE DIAMETER, SPREAD AND HEIGHT OF ALL TREES ARE ESTIMATES ONLY. IF THEY ARE CRITICAL TO DESIGN THEN A MORE ACCURATE SURVEY WOULD BE REQUIRED.
- FEATURES & LEVELS CRITICAL TO DESIGN SHOULD BE LOCATED BY A MORE ACCURATE SURVEY
- ALL SET OUT WITH REGARD TO LEVELS SHOULD BE REFERRED TO THE BENCH MARK
- OTHER THAN THE POSITION OF OVERHEAD ELECTRICITY CABLES NO OTHER SERVICE AUTHORITY SERVICE LINES HAVE BEEN PLOTTED. THIS IS DUE TO THE LACK OF INFORMATION ON SITE THAT WOULD ASSIST IN PLOTTING THE POSITION OF THE SERVICE LINES. (REFER TO NOTE 12).
- EXISTING SERVICES MAY IMPACT ON DESIGN/CONSTRUCTION - IT IS ADVISED THAT A COMPREHENSIVE SERVICES SEARCH BE CARRIED OUT PRIOR TO COMMENCEMENT OF DESIGN/CONSTRUCTION REFER "DIAL BEFORE YOU DIG" DETAILS ON THIS PLAN
- ORIGIN OF THE NORTH POINT IS THE MGA CO-ORDINATES OF P.M.20911 & SSM779.

— P — DENOTES APPROXIMATE POSITION OF ABOVE GROUND ELECTRICITY CABLES AS LOCATED BY SURVEY

STN. 18
DRILL HOLE & WING
IN ROCK
EASTING 341,876.15
NORTHING 6,260,866.50
R.L. 1.72 A.H.D.

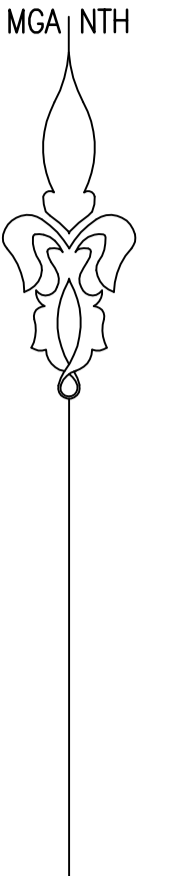
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LEVEL & DETAIL SURVEY OF SECTIONS 1, 2 & 3 FRESHWATER BEACH, FRESHWATER

Date of Survey	NOVEMBER 2016	Prepared by	PBB	Date	22/11/16	Approved by		Date		R/R	1:200
File Name	1083702.DWG	Sheet	13	Sheets		Plan No.	A1 - 1083702				





LEGEND SIGNS

20KSL	20 KILOMETRE SPEED LIMIT
12P	12 P PARKING LIMIT
AP	ALCOHOL PROHIBITED
BPK	BICYCLE PARKING
DP	DISABLED PARKING
BR	BUSH REGENERATION
EVO	EMERGENCY VEHICLES ONLY
KCAO	KEEP CLEAR AMBULANCE ONLY
KCSW	KEEP CLEAR STORMWATER PIPE
NE	NO ENTRY
NP	NO PARKING
NW	NEIGHBOURHOOD WATCH
OP	ORDINANCE POST
OS	ORDINANCE SIGN
OW	ONE WAY
PH	PAY HERE
PMB	PARK IN MARKED BAY
SS	STREET

LEGEND FURNITURE ETC.

ATOB	APPROXIMATE TOP OF BANK	MGB	METAL GARBAGE BIN
ATOEB	APPROXIMATE TOE OF BANK	MHR	METAL HAND RAIL
B1	TIMBER BOLLARD 0.1#	MP	METAL POST
B2	TIMBER BOLLARD 0.2#	MON	MONUMENT
B3	TIMBER BOLLARD 0.3#	MS	METAL SEAT
BBOE	BARBECUE (ELECTRIC)	MSAT	METAL SEAT & TABLE
BES	BRICK EDGE STRIP	MSP	METAL SHOWER POST
BP	BRICK PAVED	PE	PLAYGROUND EQUIPMENT
BPA	BITUMEN PAVED AREA	PC	PRAM CROSSING
BQ	TIMBER BOLLARD 0.1 SQUARE	PTD	PARKING TICKET DISPENSER
BR	BICYCLE RACK	RKF	ROCK FEATURE
BUB	BUBBLER	SE	STONE EDGING
BW	BRICK WALL	SP	STONE PATH
CD	CONCRETE DRIVE	SP1	STEEL POST 0.07#
CES	CONCRETE EDGE STRIP	SPL	SPRINKLER
CFP	CONCRETE PATH	SRM	SIGHT IMPAIRED RIPPLE MAT
CHW	CONCRETE HEAD WALL	SW	STONE WALL
CK&G	CONCRETE KERB & GUTTER	TF	TIMBER FENCE
CS	CONCRETE SLAB	THR	TIMBER HAND RAIL
CSP	CONCRETE SHOWER POST	TS	TIMBER SEAT
CW	CONCRETE WALL	TSAT	TIMBER SEAT & TABLE
EFL	ENTRANCE FLOOR LEVEL	TSMR	TIMBER SHELTER WITH METAL ROOF
ERB	EMERGENCY RESCUE BUOY	TSFR	TIMBER SHELTER WITH FIBRO SHINGLE ROOF
KLPR	KOPPERS LOG POST & RAIL FENCE	TWL	TIMBER WALL
MB	METAL BOLLARD		
MBP	METAL BIN STAND		
MBS	METAL BENCH SEAT		
MBO	METAL BOLLARD SQUARE		
MF	METAL FENCE		

LEGEND SERVICES

CP	COMMUNICATION PIT	PPB	PUBLIC PHONE BOOTH
CPML	CONCRETE PIT WITH METAL LID	PP	POWER POLE
EB	ELECTRICITY BOX	PSK	PUMPING STATION KIOSK
EK	ELECTRICITY KIOSK	SAC	SEWER ACCESS CHAMBER
EP	ELECTRICITY PIT	SIP	SEWER INSPECTION PIT
FH	FIRE HYDRANT	SL	SPOT LIGHT
H	HYDRANT	SV	STOP VALVE
HLP	HEXAGONAL LIGHT POLE	SVP	STOP VENT PIPE
LP1	TIMBER LIGHT POST 0.3#	TAP	TAP
LPM1	METAL LIGHT POST 0.1#	TP	TELSTRA PIT
LPM2	METAL LIGHT POST 0.2#	USB	UNKNOWN SERVICE BOX
MCP	METAL COMMUNICATION POST 0.07#	USP	UNKNOWN SERVICE PIT
MSC	METAL SERVICE CUPBOARD	WM	WATER METER
		WMC	WATER METER CAGE
		WV	WATER VALVE

DRAINAGE LEGEND

CPL	DENOTES CONCRETE DRAINAGE PIT LID
DAC	DENOTES DRAINAGE ACCESS CHAMBER
DD	DENOTES DISH DRAIN
DPT	DENOTES DRAINAGE PIT
GD	DENOTES GRATED DRAIN
GI	DENOTES INVERT OF GRATE AT GUTTER
GL	DENOTES GRATE LEVEL
GP	DENOTES GULLY PIT
KI	DENOTES KERB INLET LENGTH
PT	DENOTES PIT INVERT
PTD	DENOTES PIT INVERT INACCESSIBLE
TPI	DENOTES TOP OF PIPE

— P — DENOTES APPROXIMATE POSITION OF ABOVE GROUND ELECTRICITY CABLES AS LOCATED BY SURVEY

REFER TO NOTES ON SHEET 6

B	ADDITIONAL DETAIL ADDED TO PLAN	3/02/17
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LEGEND FURNITURE ETC.

— P — DENOTES APPROXIMATE POSITION OF ABOVE GROUND ELECTRICITY CABLES AS LOCATED BY SURVEY

LEGEND SIGNS

- + 20KSL 20 KILOMETRE SPEED LIMIT
- + 12P 12 P PARKING LIMIT
- + AP ALCOHOL PROHIBITED
- + BPK BICYCLE PARKING
- + DP DISABLED PARKING
- + BR BUSH REGENERATION
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- + KCAO KEEP CLEAR AMBULANCE ONLY
- + KCSW KEEP CLEAR STORMWATER PIPE
- + NE NO ENTRY
- + NP NO PARKING
- + NW NEIGHBOURHOOD WATCH
- + OS ORDINANCE SIGN
- + OW ONE WAY
- + PH PAY HERE
- + PMB PARK IN MARKED BAY
- + SS STREET

MCA NTH



- | | |
|------------------------------------|---|
| ATOEB APPROXIMATE TOP OF BANK | MGB METAL GARBAGE BIN |
| B1 TIMBER BOLLARD 0.1φ | MHR METAL HAND RAIL |
| B2 TIMBER BOLLARD 0.2φ | MP METAL POST |
| B3 TIMBER BOLLARD 0.3φ | MON MONUMENT |
| BROE BARBECUE (ELECTRIC) | MS METAL SEAT |
| BES BRICK EDGE STRIP | MSAT METAL SEAT & TABLE |
| BP BRICK PAVED | MSP METAL SHOWER POST |
| BPA BITUMEN PAVED AREA | PE PLAYGROUND EQUIPMENT |
| BQ TIMBER BOLLARD 0.1 SQUARE | PC PRAM CROSSING |
| BR BICYCLE RACK | PTD PARKING TICKET DISPENSER |
| BUB BUBBLER | RKF ROCK FEATURE |
| BW BRICK WALL | SE STONE EDGING |
| CD CONCRETE DRIVE | SP STONE PATH |
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| CFP CONCRETE PATH | SPL SPRINKLER |
| CHW CONCRETE HEAD WALL | SRM SIGHT IMPAIRED RIPPLE MAT |
| CK&G CONCRETE KERB & GUTTER | SW STONE WALL |
| CS CONCRETE SLAB | TF TIMBER FENCE |
| CSP CONCRETE SHOWER POST | THR TIMBER HAND RAIL |
| CW CONCRETE WALL | TS TIMBER SEAT |
| EFL ENTRANCE FLOOR LEVEL | TSAT TIMBER SEAT & TABLE |
| ERB EMERGENCY RESCUE BUOY | TSMR TIMBER SHELTER WITH METAL ROOF |
| KLPR KOPPERS LOG POST & RAIL FENCE | TSFR TIMBER SHELTER WITH FIBRO SHINGLE ROOF |
| MB METAL BOLLARD | TWL TIMBER WALL |
| MBP METAL BIN STAND | |
| MBS METAL BENCH SEAT | |
| MBQ METAL BOLLARD SQUARE | |
| MF METAL FENCE | |

LEGEND SERVICES

- | | |
|------------------------------------|---------------------------|
| CP COMMUNICATION PIT | PFB PUBLIC PHONE BOOTH |
| CPML CONCRETE PIT WITH METAL LID | PP POWER POLE |
| EB ELECTRICITY BOX | PSK PUMPING STATION KIOSK |
| EK ELECTRICITY KIOSK | SAC SEWER ACCESS CHAMBER |
| EP ELECTRICITY PIT | SIP SEWER INSPECTION PIT |
| FH FIRE HYDRANT | SL SPOT LIGHT |
| H HYDRANT | SV STOP VALVE |
| HLP HEXAGONAL LIGHT POLE | SVP STOP VENT PIPE |
| LP1 TIMBER LIGHT POST 0.3φ | TAP TAP |
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| LPM2 METAL LIGHT POST 0.2φ | USB UNKNOWN SERVICE BOX |
| MCP METAL COMMUNICATION POST 0.07φ | USP UNKNOWN SERVICE PIT |
| MSC METAL SERVICE CUPBOARD | WM WATER METER |
| | WMC WATER METER CAGE |
| | WV WATER VALVE |

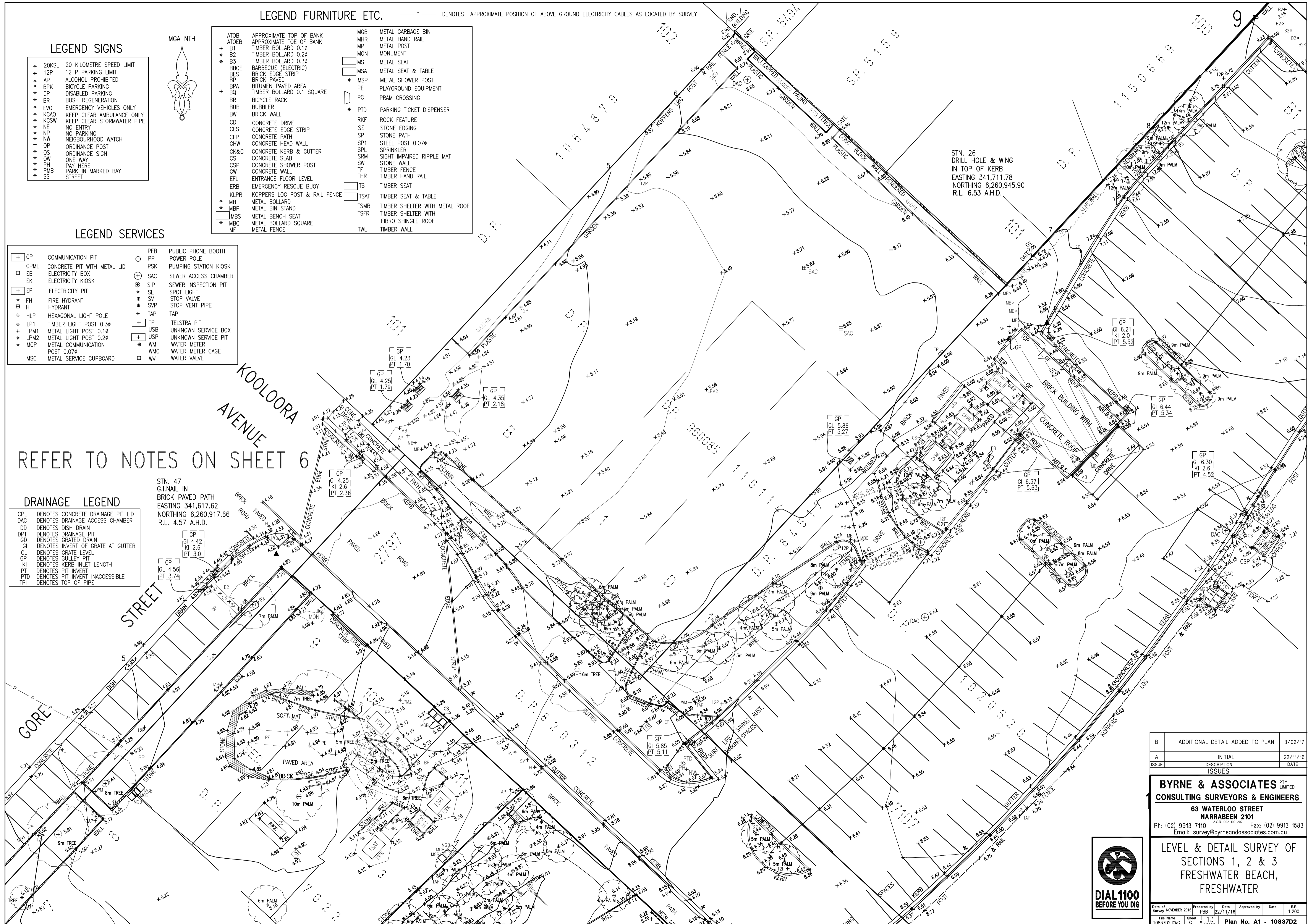
REFER TO NOTES ON SHEET 6

DRAINAGE LEGEND

- CPL DENOTES CONCRETE DRAINAGE PIT LID
- DAC DENOTES DRAINAGE ACCESS CHAMBER
- DD DENOTES DISH DRAIN
- DPT DENOTES DRAINAGE PIT
- GD DENOTES GRATED DRAIN
- GI DENOTES INVERT OF GRATE AT GUTTER
- GL DENOTES GRADE LEVEL
- GP DENOTES GULLY PIT
- KI DENOTES KERB INLET LENGTH
- PT DENOTES PIT INVERT
- PTD DENOTES PIT INVERT INACCESSIBLE
- TPI DENOTES TOP OF PIPE

STN. 47
G.NAIL IN
BRICK PAVED PATH
EASTING 341,617.62
NORTHING 6,260,917.66
R.L. 4.57 A.H.D.

STN. 26
DRILL HOLE & WING
IN TOP OF KERB
EASTING 341,711.78
NORTHING 6,260,945.90
R.L. 6.53 A.H.D.



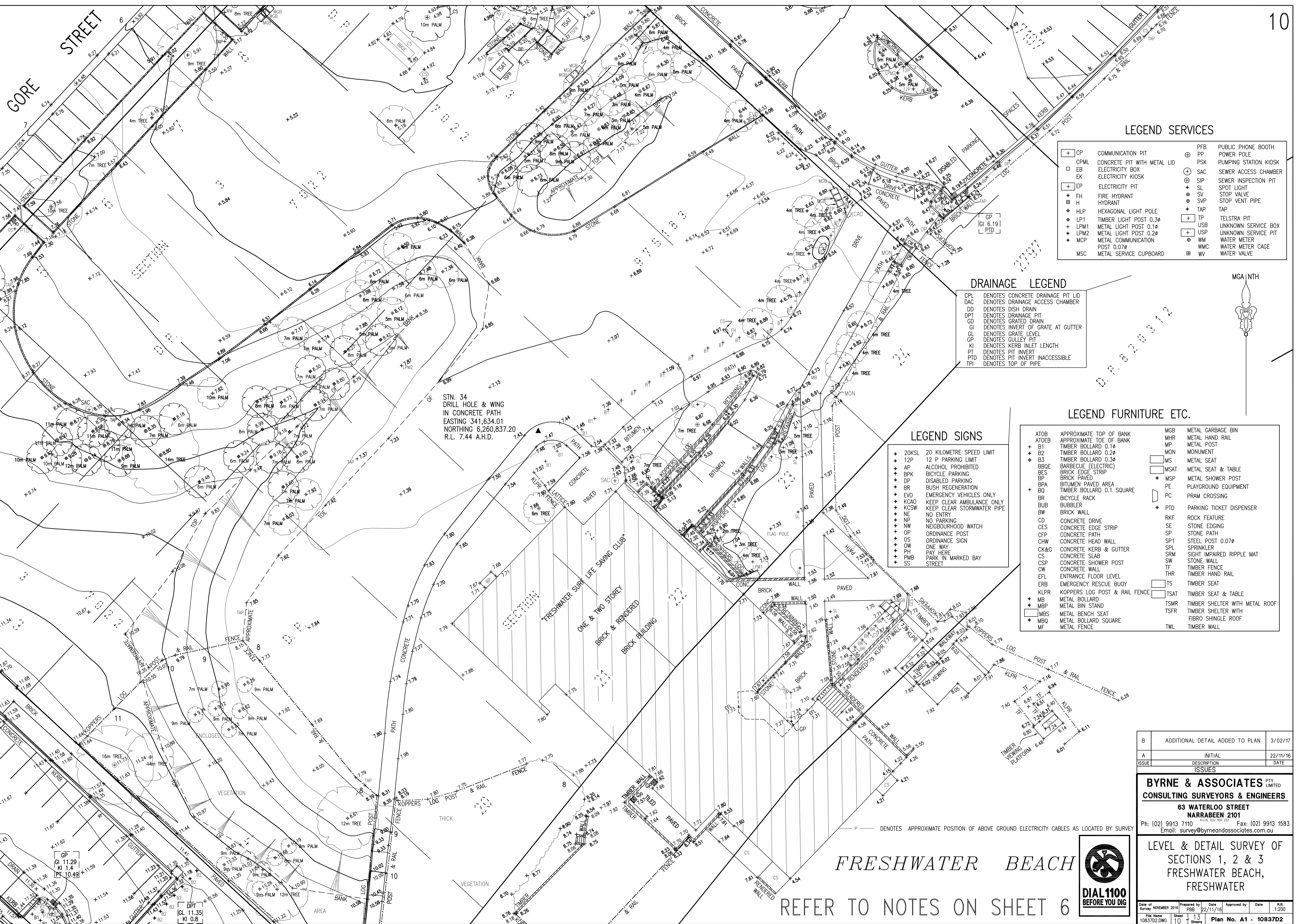
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**LEVEL & DETAIL SURVEY OF
 SECTIONS 1, 2 & 3
 FRESHWATER BEACH,
 FRESHWATER**

Date of Survey NOVEMBER 2016 Prepared by PBB Date 22/11/16 Approved by Date R.R. 1:200
 File Name 1083702.DWG Sheet 9 of 13 Sheets Plan No. A1 - 1083702





LEGEND SERVICES

CP	COMMUNICATION PIT	PPB	PUBLIC PHONE BOOTH
CPML	CONCRETE PIT WITH METAL LID	PP	POWER POLE
EB	ELECTRICITY BOX	PSK	PUMPING STATION KIOSK
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DRAINAGE LEGEND

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KI	DENOTES KERB INLET LENGTH
PI	DENOTES PIT INVERT
PTD	DENOTES PIT INVERT INACCESSIBLE
TI	DENOTES TOP OF PIPE

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OP	ORDINANCE POST
OS	ORDINANCE SIGN
OW	ONE WAY
PH	PAY HERE
PMB	PARK IN MARKED BAY
SS	STREET

LEGEND FURNITURE ETC.

ATOEB	APPROXIMATE TOP OF BANK	MGB	METAL GARBAGE BIN
B1	TIMBER BOLLARD 0.10	MHR	METAL HAND RAIL
B2	TIMBER BOLLARD 0.20	MP	METAL POST
B3	TIMBER BOLLARD 0.30	MON	MONUMENT
BQCE	BARBECUE (ELECTRIC)	MS	METAL SEAT
BES	BRICK EDGE STRIP	MSAT	METAL SEAT & TABLE
BP	BRICK PAVED	MSP	METAL SHOWER POST
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BUB	BUBBLER	RKF	ROCK FEATURE
BW	BRICK WALL	SE	STONE EDGING
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CK&G	CONCRETE KERB & GUTTER	SW	STONE WALL
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MB	METAL BOLLARD	TWL	TIMBER WALL
MBS	METAL BENCH SEAT		
MBO	METAL BOLLARD SQUARE		
MF	METAL FENCE		

FRESHWATER BEACH

REFER TO NOTES ON SHEET 6



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LEVEL & DETAIL SURVEY OF
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 FRESHWATER BEACH,
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File Name	1063702.DWG	Sheet	10	of	13	Sheets		Plan No.	A1 - 1083702		

DRAINAGE LEGEND

- CPL DENOTES CONCRETE DRAINAGE PIT LID
- DAC DENOTES DRAINAGE ACCESS CHAMBER
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- GD DENOTES GRATED DRAIN
- GI DENOTES INVERT OF GRATE AT GUTTER
- GL DENOTES GRATE LEVEL
- GP DENOTES GULLEY PIT
- KI DENOTES KERB INLET LENGTH
- PT DENOTES PIT INVERT
- PTD DENOTES PIT INVERT INACCESSIBLE
- TPI DENOTES TOP OF PIPE

LEGEND SERVICES

- | | |
|------------------------------------|---------------------------|
| CP COMMUNICATION PIT | PFB PUBLIC PHONE BOOTH |
| CPML CONCRETE PIT WITH METAL LID | PP POWER POLE |
| EB ELECTRICITY BOX | PSK PUMPING STATION KIOSK |
| EK ELECTRICITY KIOSK | SAC SEWER ACCESS CHAMBER |
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| FH FIRE HYDRANT | SL SPOT LIGHT |
| H HYDRANT | SV STOP VALVE |
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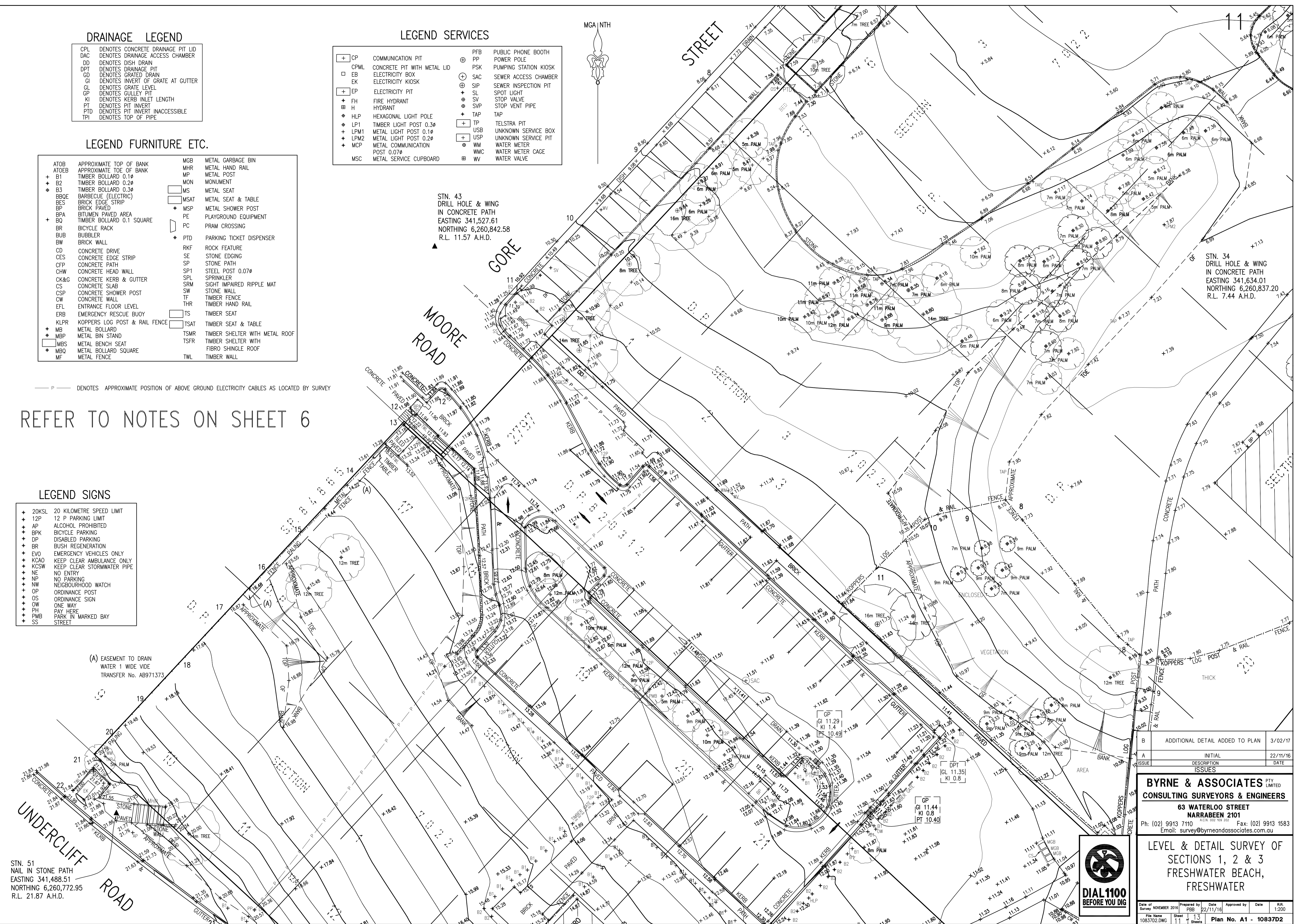
LEGEND FURNITURE ETC.

- | | |
|------------------------------------|---|
| ATOB APPROXIMATE TOP OF BANK | MGB METAL GARBAGE BIN |
| ATOEB APPROXIMATE TOE OF BANK | MHR METAL HAND RAIL |
| B1 TIMBER BOLLARD 0.1m | MP METAL POST |
| B2 TIMBER BOLLARD 0.2m | MON MONUMENT |
| B3 TIMBER BOLLARD 0.3m | MS METAL SEAT |
| BQEQE BARBECUE (ELECTRIC) | MSAT METAL SEAT & TABLE |
| BES BRICK EDGE STRIP | MSP METAL SHOWER POST |
| BP BRICK PAVED | PE PLAYGROUND EQUIPMENT |
| BPA BITUMEN PAVED AREA | PC PRAM CROSSING |
| BQ TIMBER BOLLARD 0.1 SQUARE | PTD PARKING TICKET DISPENSER |
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REFER TO NOTES ON SHEET 6

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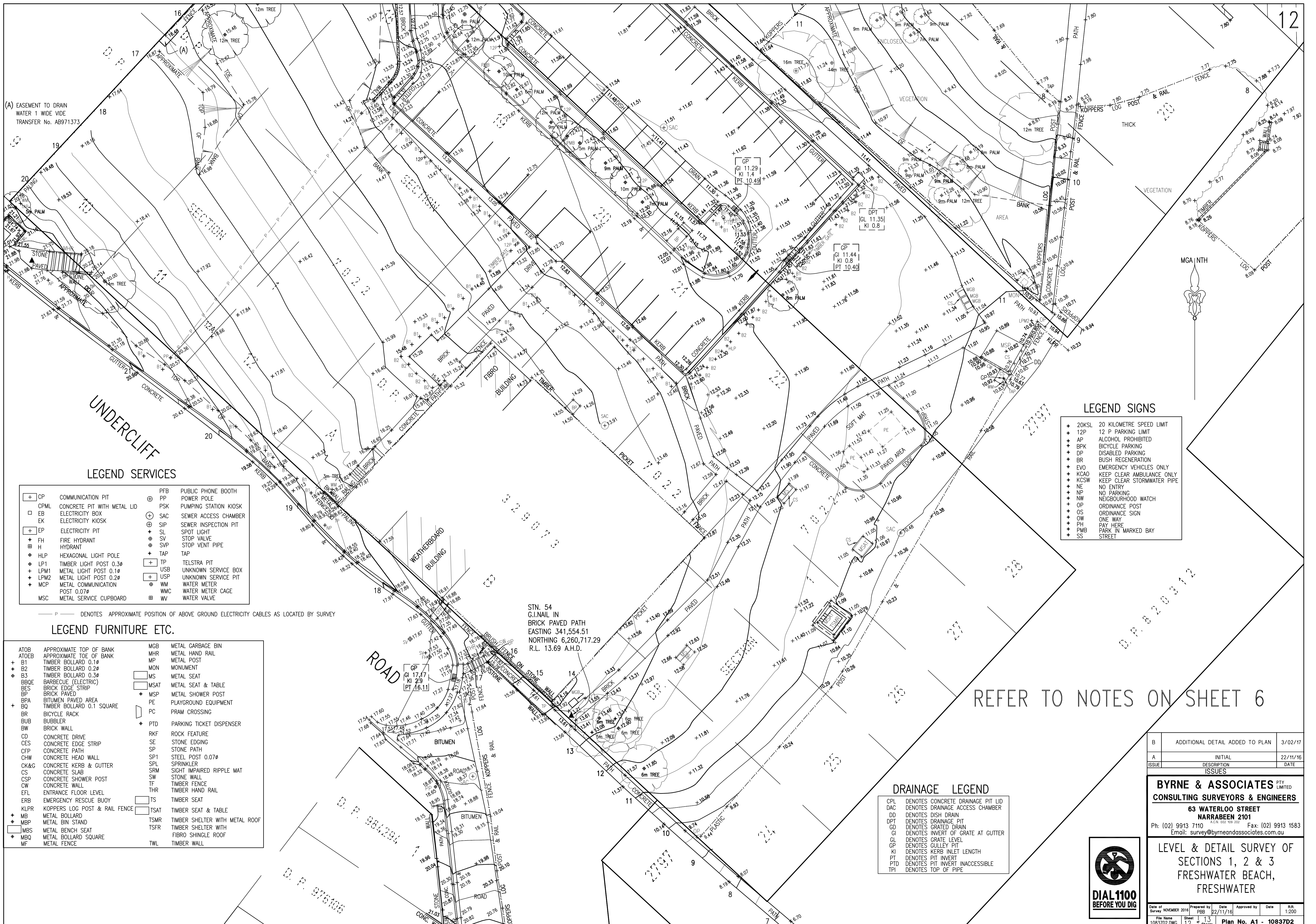
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(A) EASEMENT TO DRAIN WATER 1 WIDE VIDE TRANSFER No. AB971373

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BES	BRICK EDGE STRIP	MSP	METAL SHOWER POST
BP	BRICK PAVED	PE	PLAYGROUND EQUIPMENT
BPA	BITUMEN PAVED AREA	PC	PRAM CROSSING
BQ	TIMBER BOLLARD 0.1 SQUARE	PTD	PARKING TICKET DISPENSER
BR	BICYCLE RACK	RKF	ROCK FEATURE
BUB	BUBBLER	SE	STONE EDGING
BW	BRICK WALL	SP	STONE PATH
CD	CONCRETE DRIVE	SP1	STEEL POST 0.070
CES	CONCRETE EDGE STRIP	SPL	SPRINKLER
CFP	CONCRETE PATH	SRM	SIGHT IMPAIRED RIPPLE MAT
CHW	CONCRETE HEAD WALL	SW	STONE WALL
CK&G	CONCRETE KERB & GUTTER	TF	TIMBER FENCE
CS	CONCRETE SLAB	THR	TIMBER HAND RAIL
CSP	CONCRETE SHOWER POST	TS	TIMBER SEAT
CW	CONCRETE WALL	TSAT	TIMBER SEAT & TABLE
EFL	ENTRANCE FLOOR LEVEL	TSMR	TIMBER SHELTER WITH METAL ROOF
ERB	EMERGENCY RESCUE BUOY	TSFR	TIMBER SHELTER WITH FIBRO SHINGLE ROOF
KLPR	KOPPERS LOG POST & RAIL FENCE	TWL	TIMBER WALL
MB	METAL BOLLARD		
MBP	METAL BIN STAND		
MBS	METAL BENCH SEAT		
MBO	METAL BOLLARD SQUARE		
MF	METAL FENCE		

LEGEND SIGNS

20KSL	20 KILOMETRE SPEED LIMIT
12P	12 P PARKING LIMIT
AP	ALCOHOL PROHIBITED
BPK	BICYCLE PARKING
DP	DISABLED PARKING
BR	BUSH REGENERATION
EVO	EMERGENCY VEHICLES ONLY
KCAO	KEEP CLEAR AMBULANCE ONLY
KCSW	KEEP CLEAR STORMWATER PIPE
NE	NO ENTRY
NP	NO PARKING
NW	NEIGHBOURHOOD WATCH
OP	ORDNANCE POST
OS	ORDNANCE SIGN
OW	ONE WAY
PH	PAY HERE
PMB	PARK IN MARKED BAY
SS	STREET

DRAINAGE LEGEND

CPL	DENOTES CONCRETE DRAINAGE PIT LID
DAC	DENOTES DRAINAGE ACCESS CHAMBER
DD	DENOTES DISH DRAIN
DPT	DENOTES DRAINAGE PIT
GD	DENOTES GRATED DRAIN
GI	DENOTES INVERT OF GRATE AT GUTTER
GL	DENOTES GRATE LEVEL
GP	DENOTES GULLY PIT
KI	DENOTES KERB INLET LENGTH
PI	DENOTES PIT INVERT
PTD	DENOTES PIT INVERT INACCESSIBLE
TPI	DENOTES TOP OF PIPE

REFER TO NOTES ON SHEET 6

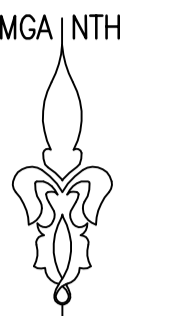
B	ADDITIONAL DETAIL ADDED TO PLAN	3/02/17
A	INITIAL	22/11/16
ISSUE	DESCRIPTION	DATE
	ISSUES	

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LEVEL & DETAIL SURVEY OF SECTIONS 1, 2 & 3 FRESHWATER BEACH, FRESHWATER

Date of Survey	NOVEMBER 2016	Prepared by	PBB	Date	22/11/16	Approved by		Date		R/R	1:200
File Name	1083702.DWG	Sheet	12	of	13	Sheets		Plan No.	A1	-	1083702



FRESHWATER BEACH

LEGEND SERVICES

CP	COMMUNICATION PIT	PFB	PUBLIC PHONE BOOTH
CPML	CONCRETE PIT WITH METAL LID	PP	POWER POLE
EB	ELECTRICITY BOX	PSK	PUMPING STATION KIOSK
EK	ELECTRICITY KIOSK	SAC	SEWER ACCESS CHAMBER
EP	ELECTRICITY PIT	SIP	SEWER INSPECTION PIT
FH	FIRE HYDRANT	SL	SPOT LIGHT
H	HYDRANT	SV	STOP VALVE
HLP	HEXAGONAL LIGHT POLE	SVP	STOP VENT PIPE
LP1	TIMBER LIGHT POST 0.3φ	TAP	TAP
LPM1	METAL LIGHT POST 0.1φ	TP	TELSTRA PIT
LPM2	METAL LIGHT POST 0.2φ	USB	UNKNOWN SERVICE BOX
MCP	METAL COMMUNICATION POST 0.07φ	USP	UNKNOWN SERVICE PIT
MSC	METAL SERVICE CUPBOARD	WM	WATER METER
		WMC	WATER METER CAGE
		WV	WATER VALVE

LEGEND FURNITURE ETC.

ATOB	APPROXIMATE TOP OF BANK	MGB	METAL GARBAGE BIN
ATOEB	APPROXIMATE TOE OF BANK	MHR	METAL HAND RAIL
B1	TIMBER BOLLARD 0.1φ	MP	METAL POST
B2	TIMBER BOLLARD 0.2φ	MON	MONUMENT
B3	TIMBER BOLLARD 0.3φ	MS	METAL SEAT
BBOE	BARBECUE (ELECTRIC)	MSAT	METAL SEAT & TABLE
BES	BRICK EDGE STRIP	MSP	METAL SHOWER POST
BP	BRICK PAVED	PE	PLAYGROUND EQUIPMENT
BPA	BITUMEN PAVED AREA	PC	PRAM CROSSING
BQ	TIMBER BOLLARD 0.1 SQUARE	PTD	PARKING TICKET DISPENSER
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BW	BRICK WALL	SP	STONE PATH
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CK&G	CONCRETE KERB & GUTTER	TF	TIMBER FENCE
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DAC	DENOTES DRAINAGE ACCESS CHAMBER
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NE	NO ENTRY
NP	NO PARKING
NW	NEIGHBOURHOOD WATCH
OP	ORDINANCE POST
OS	ORDINANCE SIGN
OW	ONE WAY
PH	PAY HERE
FMB	PARK IN MARKED BAY
SS	STREET

NOTE:

- LEVELS SHOWN THUS $+13.34$ ARE BASED ON AUSTRALIAN HEIGHT DATUM
- ORIGIN OF LEVELS - PM 20911 R.L.13.49 A.H.D. SEE SHEET 4 FOR LOCATION
- LEVELS SHOWN THUS $ABT.13.9$ HAVE BEEN DETERMINED BY REMOTE METHODS AND ARE ACCURATE TO ± 100 mm
- NO BOUNDARY INVESTIGATION HAS BEEN CARRIED OUT AND THEREFORE THIS PLAN DOES NOT DEFINE BOUNDARIES.
- DO NOT SCALE - USE FIGURED BEARINGS & DISTANCES ONLY
- CONTOURS ARE AT 0.5 METRE INTERVALS AND ARE APPROXIMATE ONLY. SPOT LEVELS SHOULD BE USED IN PREFERENCE TO CONTOUR VALUES.
- BASIC LEVEL AND DETAIL SURVEY ONLY - UNLESS OTHERWISE SHOWN, THE POSITION OF IMPROVEMENTS ARE APPROXIMATE. THE INFORMATION SHOWN HEREON IS ONLY TO BE USED AT AN ACCURACY OF 1:200
- THE DIAMETER, SPREAD AND HEIGHT OF ALL TREES ARE ESTIMATES ONLY. IF THEY ARE CRITICAL TO DESIGN THEN A MORE ACCURATE SURVEY WOULD BE REQUIRED.
- FEATURES & LEVELS CRITICAL TO DESIGN SHOULD BE LOCATED BY A MORE ACCURATE SURVEY
- ALL SET OUT WITH REGARD TO LEVELS SHOULD BE REFERRED TO THE BENCH MARK
- OTHER THAN THE POSITION OF OVERHEAD ELECTRICITY CABLES NO OTHER SERVICE AUTHORITY SERVICE LINES HAVE BEEN PLOTTED. THIS IS DUE TO THE LACK OF INFORMATION ON SITE THAT WOULD ASSIST IN PLOTTING THE POSITION OF THE SERVICE LINES. (REFER TO NOTE 12).
- EXISTING SERVICES MAY IMPACT ON DESIGN/CONSTRUCTION - IT IS ADVISED THAT A COMPREHENSIVE SERVICES SEARCH BE CARRIED OUT PRIOR TO COMMENCEMENT OF DESIGN/CONSTRUCTION REFER "DIAL BEFORE YOU DIG" DETAILS ON THIS PLAN
- ORIGIN OF THE NORTH POINT IS THE MGA CO-ORDINATES OF P.M.20911 & SSM779.

— P — DENOTES APPROXIMATE POSITION OF ABOVE GROUND ELECTRICITY CABLES AS LOCATED BY SURVEY

BRIDGE

STN. 79
NAIL IN
CONCRETE PATH
EASTING 341,543.06
NORTHING 6,260,629.98
R.L. 36.98 A.H.D.

STN. 55
G.I.NAIL IN
CONCRETE PATH
EASTING 341,585.78
NORTHING 6,260,687.60
R.L. 5.68 A.H.D.

B	ADDITIONAL DETAIL ADDED TO PLAN	3/02/17
A	INITIAL	22/11/16
ISSUE	DESCRIPTION	DATE

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LEVEL & DETAIL SURVEY OF SECTIONS 1, 2 & 3 FRESHWATER BEACH, FRESHWATER

Date of Survey	NOVEMBER 2016	Prepared by	PBB	Date	22/11/16	Approved by		Date		R/R	1:200
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