

PLANT ROOM

RECEPTION

STAFF ROOM

CLUB LEVEL R.L 17.00

CAFE

CLUB SERVICE LIFT

PLANT STORAGE 2

O.S.D. UNDERGROUND TANK INT. AREA: 41.0m<sup>2</sup>

GAMING ROOM 2

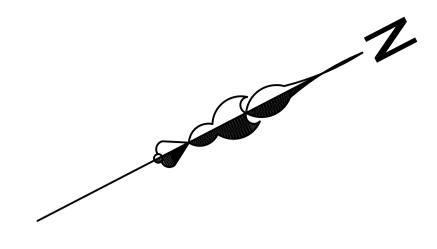
POKER MACHINES

TOTAL STORAGE REQUIRED 97.0m3

ACCESS GRATE
900 SQ.
CL 17.00

ACCESS GRATE 900 SQ. CL 17.00

F.S.5.



## ON SITE-DETENTION (Contributing Area 95% of site)

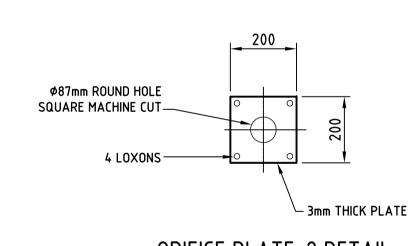
ORIFICE 1 G	RL 13.97
ORIFICE DIA	109mm
ORIFICE 2 G	RL 14.00
ORIFICE DIA	87mm

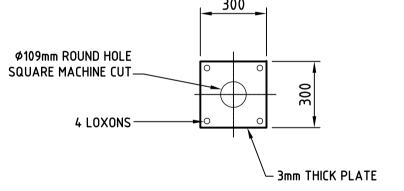
ARI	Required Discharge (L/s)	Required Volume(m) <sup>3</sup>	Top Water Level (RL)	Orifice-1 Discharge (L/s)	Orifice-2 Discharge (L/s)	Total Discharge (L/s)
2	16.7	43.6	15.10	16.70	16.70	16.7
50	53.1	97.0	16.70	53.10	16.70	53.1

### **DESIGN SUMMARY**

QUANTITY	VALUE
SITE AREA	2950 m²
CATCHMENT NAME	MUDDY CREEK
PERMISSIBLE SITE DISCHARGE	180L/s/ha
REQUIRED SITE STORAGE	320 m³/ha
PERMISSIBLE SITE DISCHARGE @ 50yr. ARI.	53.10 L/s
REQUIRED STORAGE @ 50yr. ARI.	97.00m³
PERMISSIBLE SITE DISCHARGE @ 2yr. ARI.	16.70L/s
REQUIRED STORAGE @ 2yr. ARI.	43.60 m³
ON-SITE DETENTION VOLUME PROVIDED	97.00 m³

REFER TO DESIGN CALCULATION CHECKLIST





ORIFICE PLATE-1 DETAIL N.T.S.

ORIFICE PLATE-2 DETAIL N.T.S.

#### CLUB LEVEL DRAINAGE PLAN SCALE 1:150

ALL GUTTERS TO BE MINI-LINE MINIMUM SIZE TO ARCHITECTURAL SPECIFICATION OR AS NOTED ON PLAN.

ALL GUTTERS TO BE PROVIDED WITH LEAF GUARD.

ALL BALCONIES ARE TO HAVE A 65mm DIAMETER OVERFLOW PIPE OR AND 80mm SQUARE OPENING ACTING AS AN OVERFLOW.

ALL DOWNPIPES TO BE 100mm DIAMETER OR 100 x 100mm MIN. TO ARCHITECTURAL SPECIFICATIONS OR AS NOTED ON PLAN.

PROVIDE AG. LINES BEHIND ALL RETAINING WALLS AND SUBSOIL DRAINAGE AS PER STRUCTURAL ENGINEERING DETAILS. ALL LINES TO DRAIN TO PITS.

× DENOTES PROPOSED LEVEL

DENOTES EXISTING LEVEL

O DENOTES DOWNPIPE

---- ROOFWATER ONLY

----- STORMWATER ONLY

STEEL BRACKET FOR BASKET SEATING
GALVANISED, TYPICAL, EITHER SIDE OF
BASKET LOCATION. FIX TO PIT WITH 2 LOXONS.

STEEL CLIP WELDED TO BASKET
GALVANISED, TYPICAL, EITHER SIDE
LYSAGHTS RH3030 MAXIMESH
GALVANISED

ACCESS GRATE 900 x 900 GALV. CL 17.00 ACCESS GRATE 900 x 900 GALV. FIRST FLOOR CL 17.00 5xØ100 0/F TWL 16.70 @ 50yrs ARI O.S.D. UNDERGROUND TANK INT. AREA: 41.0m<sup>2</sup> TOTAL STORAGE REQUIRED 97.0m3 TWL 15.10 @ 2yrs ARI  $\perp$  Step irons. 3mm STAINLESS STEEL ORIFICE-2 PLATE BOLTED & TWO PART STEP IRONS. EPOXY GLUED TO WALL MIN. 1% FALL ——— Ø225 TO JUNCTION PIT PROVIDE AT ACCESS CONFINED SPACE 3mm STAINLESS STEEL WARNING SIGN AS PER COUNCIL REQUIREMENT ORIFICE-1 PLATE PROVIDE J TYPE CHILD PROOF LOCKS **BOLTED & TWO PART** BASEMENT 1 RL 13.60 **\**\_\_ MAXIMESH \\_\_ MAXIMESH **EPOXY GLUED TO WALL** ON ALL TANK GRATES SCREEN. SCREEN. CONSTRUCT TANK TO REFER DETAIL-1 REFER DETAIL-1 STRUCTURAL ENGINEERING DETAILS

NO ACCES MAINTENANCE ONLY

ACCESS GRATE
900 SQ.
CL 17.00

ON-SITE DETENTION TANK NTS.

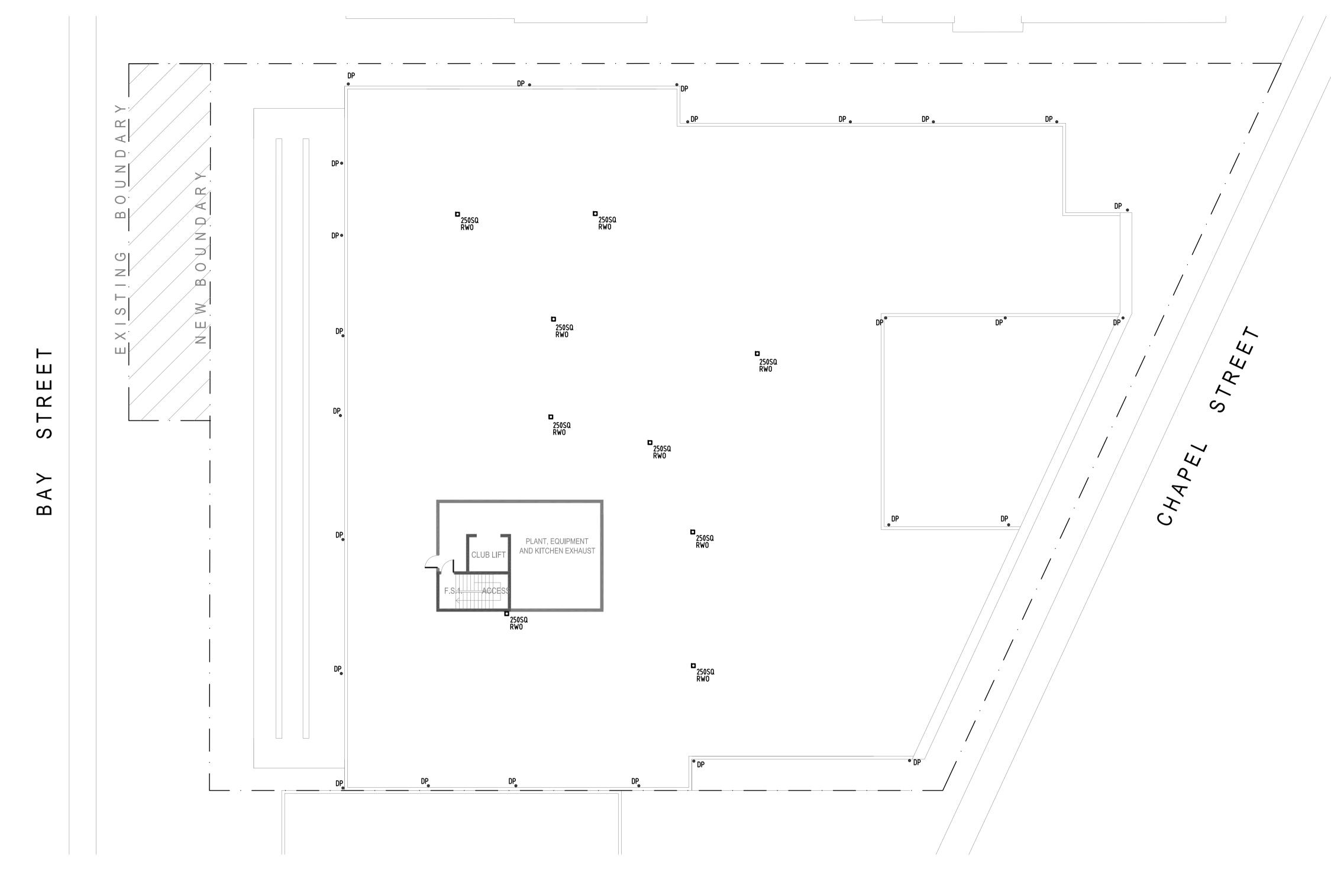
# NOT FOR CONSTRUCTION

F	27.02.2018	ISSUED TO THE ARCHITECT	HE
D	29.11.2016	ISSUED FOR DA APPROVAL	HE
C	28.11.2016	ISSUED TO THE ARCHITECT	HE
В	07.11.2016	ISSUED TO THE ARCHITECT	HE
A	02.11.2016	ISSUED TO THE ARCHITECT	HE
REV.	DATE	AMENDMENT DESCRIPTION	DRAWN
		OHN ROMANOUS & ASSOCIATES PTY. LTD. ONSULTING CIVIL & STRUCTURAL ENGINEERS ACN	054 595 005
	C		
ROPOSED	C	ONSULTING CIVIL & STRUCTURAL ENGINEERS ACN	
	SU DEVELOPMENT	ONSULTING CIVIL & STRUCTURAL ENGINEERS ACN  JITE 5/ 185D FOREST RD. HURSTVILLE NSW 2220. Ph 9585 0223 F  AT:	
	SU DEVELOPMENT	ONSULTING CIVIL & STRUCTURAL ENGINEERS ACN	
ROCKDA	D DEVELOPMENT	ONSULTING CIVIL & STRUCTURAL ENGINEERS ACN  JITE 5/ 185D FOREST RD. HURSTVILLE NSW 2220. Ph 9585 0223 F  AT:	

AS SHOWN @A1

1766 - S2/3

SCREEN DETAIL N.T.S.



### ROOF DRAINAGE PLAN SCALE 1:150

ALL BALCONIES ARE TO HAVE A 65mm DIAMETER OVERFLOW PIPE OR AND 80mm SQUARE

OPENING ACTING AS AN OVERFLOW.

ALL DOWNPIPES TO BE 100mm DIAMETER OR 100 x 100mm MIN. TO ARCHITECTURAL

SPECIFICATIONS OR AS NOTED ON PLAN.

PROVIDE AG. LINES BEHIND ALL RETAINING WALLS AND SUBSOIL DRAINAGE AS PER STRUCTURAL

ENGINEERING DETAILS. ALL LINES TO DRAIN TO PITS.

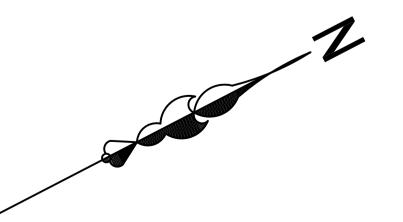
DENOTES PROPOSED LEVEL

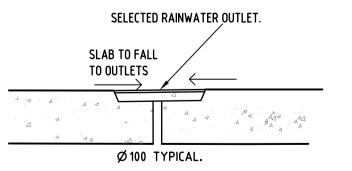
DENOTES EXISTING LEVEL

DENOTES DOWNPIPE 0

———— ROOFWATER ONLY

----- STORMWATER ONLY





RAINWATER OUTLET DETAIL (RWO) DETAIL N.T.S

#### **GENERAL NOTES:**

- 1. ALL SERVICES ARE TO BE LOCATED IN THE FIELD IN CONJUNCTION WITH A RESPONSIBLE OFFICER OF EACH RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 2. DRAINAGE PITS ARE TO BE A 450MM SQUARE OR LARGER AS SHOWN, AND FITTED WITH A GALVANIZED GRATE.
- 3. ALL PITS ARE TO HAVE A GALVANISED GRATE AND FRAME. FRAME TO BE CAST INTEGRALLY WITH THE PIT.
- 4. ALL PITS ARE TO BE BENCHED TO HALF PIPE LEVEL.
- PROVIDE STEP IRONS WHERE PIT IS DEEPER THAN 1m. AT 450mm CENTRES. DRAINAGE PIPES SHALL BE SEWER GRADE UPVC UNLESS OTHERWISE
- DRAINAGE PIPE SIZES ARE 100mm DIAMETER UNLESS OTHERWISE NOTED.
- 8. ALL BARE SOIL AREAS ARE TO BE PROTECTED FROM EROSION BY TEMPORARY MEASURES AND REVEGETATED AT THE CESSATION OF
- 9. THE DOWNHILL BOUNDARY OF THE SITE IS TO BE PROTECTED BY HAY BALES OR A FILTER FABRIC FENCE DURING CONSTRUCTION AS SHOWN IN THE ATTACHED DETAILS.
- 10. THE STREET DRAINAGE PIT LOCATED DOWNHILL OF THE SITE SHALL BE PROTECTED FROM SEDIMENT WITH HAY BALES.
- 11. A SINGLE CONSTRUCTION ENTRANCE SHALL BE ESTABLISHED IN THE MANNER SHOWN IN THE ATTACHED DETAILS.
- 12. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND STRUCTURAL ENGINEERING DOCUMENTS. ANY DISCREPANCIES SHALL BE REPORTED BY THE BUILDER TO THE ARCHITECT PRIOR TO COMMENCEMENT OF THE ITEM.
- 13. THESE PLANS ARE DIAGRAMMATIC AND SHOW THE GENERAL LOCATION OF STRUCTURES AND PIPES. WORK SHALL BE SET OUT ON SITE BY THE SITE FOREMAN & MAY VARY FROM THE PLANS TO THE EXTENT REQUIRED. TO ENSURE COMPATIBLE CONSTRUCTION OF OTHER SERVICES AND STRUCTURAL REQUIREMENTS. VARIATION IN LOCATION OF MORE THAN 1.0M & ANY CHANGES IN SIZE OF ANY COMPONENT NOMINATED HEREON SHALL BE REFERRED TO THE DESIGNER FOR COMMENT.
- 14. IF IN DOUBT, ASK THE SUPERINTENDENT WHO SHALL CONSULT THE DESIGNER.

## LEGEND

- REDUCED LEVEL
- COVER LEVEL INVERT LEVEL
- GRATED SURFACE INLET PIT
- ON-SITE DETENTION
- TOP WATER LEVEL
- BOTTOM WATER LEVEL
- TOP OF WALL INSPECTION OPENING
- AVERAGE RECURRENCE INTERVAL FLOOR WASTE
- AUSTRALIAN HEIGHT DATUM
- PERMISSIBLE SITE DISCHARGE
- HIGH EARLY DISCHARGE RHS RECTANGULAR HOLLOW SECTION
- STAINLESS STEEL
- FIBER REINFORCED CONCRETE REINFORCED CONCRETE PIPE
- RUBBER RING JOINT
- UNDERSIDE OF SLAB OVER THE SLAB
- OVERFLOW
- DP DOWN PIPE
- **✓** → DROPPER
- RAIN WATER OUTLET RAIN WATER HEAD
- FFL FINISHED FLOOR LEVEL

# NOT FOR CONSTRUCTION

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Α	02.11.2016	ISSUED TO THE ARCHITECT	HE
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JOHN ROMANOUS & ASSOCIATES PTY. LTD.

CONSULTING CIVIL & STRUCTURAL ENGINEERS ACN 054 595 005

SUITE 5/ 185D FOREST RD. HURSTVILLE NSW 2220. Ph 9585 0223 Fax 9580 8592 PROPOSED DEVELOPMENT AT:

ROCKDALE R.S.L CLUB 41 - 45 BAY ST, & 4 CHAPEL ST, ROCKDALE.

STORMWATER DRAINAGE DETAILS (CONCEPT) DRAWN CHECKED DATUM DRAWING No. 1766 - S3/3 A.H.D AS SHOWN @A1