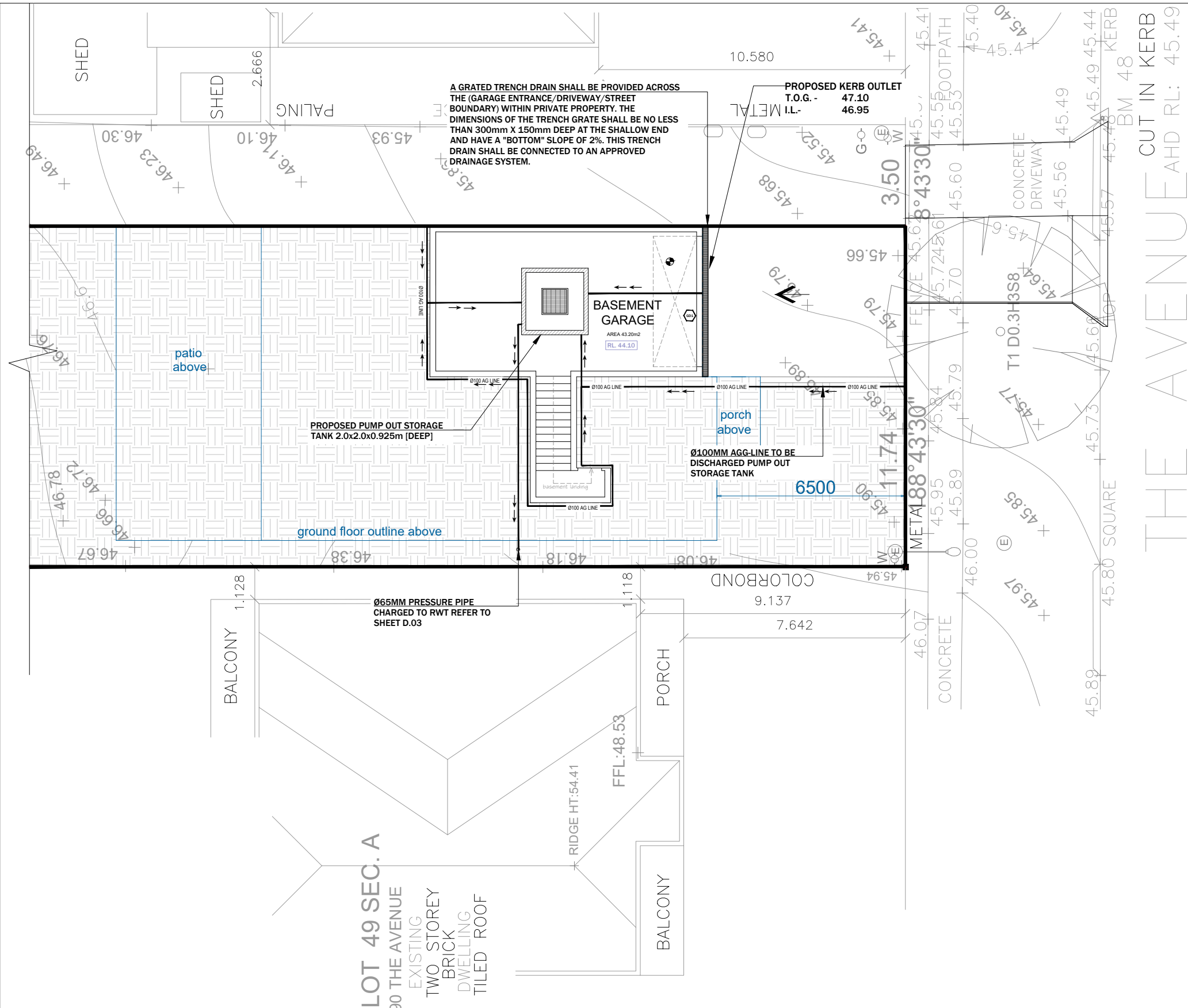
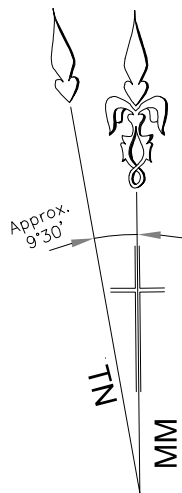
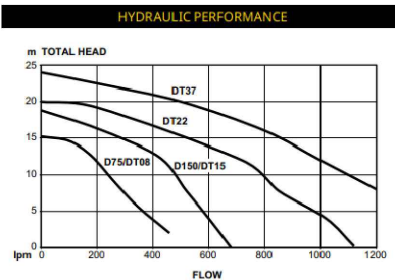
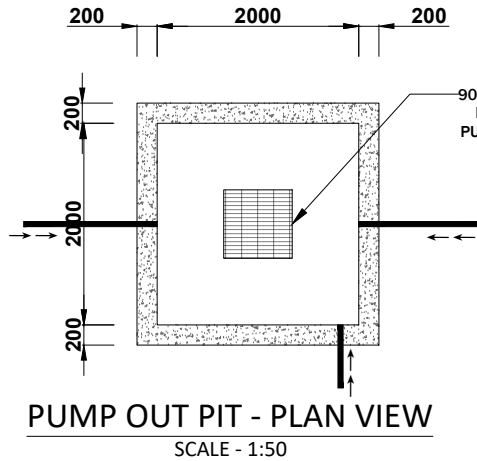




BASEMENT PUMP OUT TANK	
DESC.	CALCULATION/ DATA
I(100) 2HR	36.80mm/hr
PROPOSED PUMP STORAGE CATCHMENT	100m² [0.01 ha] STORAGE TO BE PROVIDED FOR THE 2HR DURATION 100 YR ARI STORM
$Q = CIA/360$	LET $C = 0.9$; THEREFORE, $[0.9 \times 36.80 \times 0.01] / 360 = 0.00092m³/s = [0.92L/s]$
VOLUME ACCUMULATED (100YR ARI 2HR)	$[0.92 \times 2 \times 3600] / 1000 = 6.624m³$
VOLUME PUMPED IN 30min (2.0L/s PUMP)	$[2.0 \times 0.5 \times 3600] / 1000 = 3.6m³$
VOLUME PUMPED IN 5min (2.0L/s PUMP)	$[2.0 \times 0.083 \times 3600] / 1000 = 0.60m³$
WET WELL STORAGE CAPACITY	$6.624 - 3.6 = 3.024m³$
MIN. REQUIRED STORAGE	$3.024 \times 1.2 = 3.63m³$
VOLUME PROVIDED	3.7m³

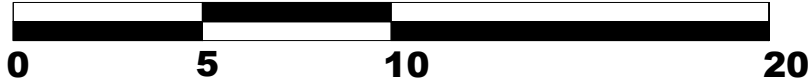


- LEGEND:**
- °DP DOWNPIPE
 - PDP+SP DOWNPIPE WITH SPREADER
 - FW 100 DIA FLOOR WASTE
 - PAVED SURFACES / AG-LINE
 - , → OVERFLOW/ DISCHARGE S/W LINE
 - , → UPVC STORMWATER LINE
 - ▤ GRATED BOX DRAINS & PITS
 - ➡ LAND FALL DIRECTION
 - > > > EARTH-MOUND SWALE OR DISH DRAIN
 - SL FINISHED SURFACE LEVEL
 - FFL FINISHED FLOOR LEVEL
 - INV INVERT LEVEL (PIPE / PIT)

1 BASEMENT STORMWATER PLAN
SCALE: 1:150 @ A3

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SCALE BAR 1:200



LGA: Canterbury Bankstown City Council

DESCRIPTION: Proposed Two Storey Dwelling with Basement Garage, Inground pool & Cabana

CLIENT: Mr Nachabe



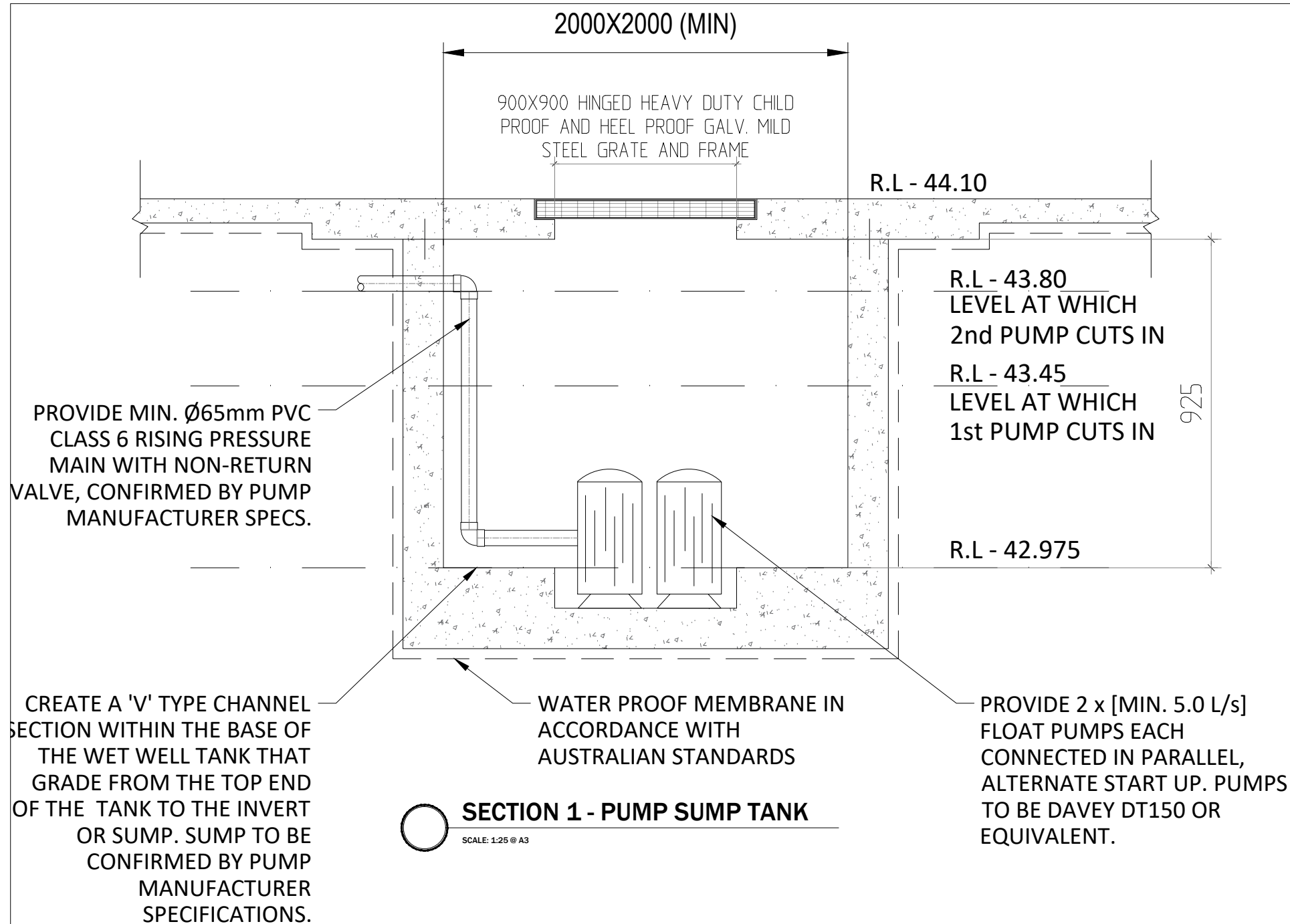
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329/462 Chapel Rd,
Bankstown 2200

REV:	DESCRIPTION:	DATE:
A	PRELIMINARY	AUG 24

SUBJECT SITE: Bankstown, 88 The Avenue

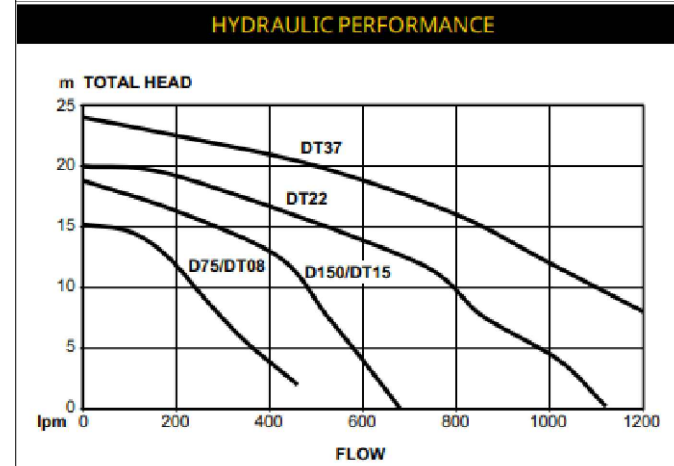
DRAWING TITLE: Basement Stormwater Plan

SCALE/ SHEET SIZE: 1:200 A3 PREPARED: I.M SHEET NO.: D.01

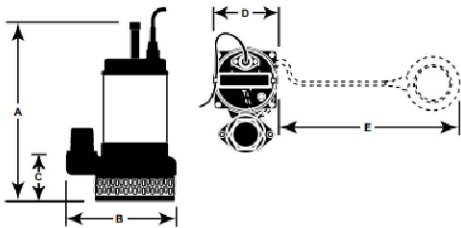


BASEMENT PUMP OUT TANK CALCULATION/ DATA	
DESC.	CALCULATION/ DATA
I(100) 2HR	36.80mm/hr
PROPOSED PUMP STORAGE CATCHMENT	100m² [0.01 ha] STORAGE TO BE PROVIDED FOR THE 2HR DURATION 100 YR ARI STORM
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VOLUME PUMPED IN 30min (2.0L/s PUMP)	[2.0 x 0.5 x 3600]/1000 = 3.6m³
VOLUME PUMPED IN 5min (2.0L/s PUMP)	[2.0 x 0.083 x 3600]/1000 = 0.60m³
WET WELL STORAGE CAPACITY	6.624 - 3.6 = 3.024m³
MIN. REQUIRED STORAGE	3.024 * 1.2 = 3.63m³
VOLUME PROVIDED	3.7m³

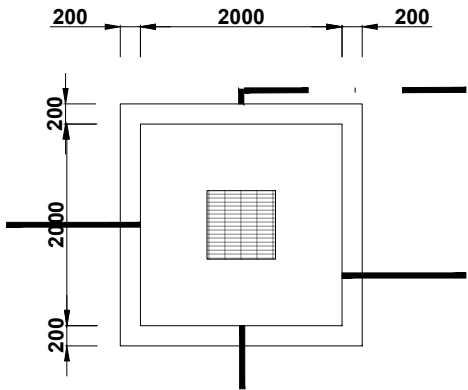
- NOTE:
- WET WELL STRUCTURE TO STRUCTURAL ENGINEERS DETAILS. REFER TO STRUCTURAL ENGINEERS PLAN
 - PUMP OUT LINE TO MANUFACTURERS SPECIFICATIONS TO DISCHARGE TO COMBINED OSD/RWT WITH A NON-RETURN VALVE.
 - SUB SOIL FLOW DETAILS MUST BE CONFIRMED BY ENGINEER PRIOR TO CONSTRUCTION SUBJECT TO GEOTECH AND STRUCTURAL RECOMMENDATIONS
 - ALL THE SUB-SOIL LINES BEHIND BASEMENT WALLS TO BE CONNECTED TO PUMP OUT PIT (WET WELL)
 - DETAILS TO BE CONFIRMED BY GEOTECHNICAL AND STRUCTURAL ENGINEER



DIMENSIONS (mm)						
Model	A	B	C	D	E	Weight (kg)
D75A/M	477	251	112	190	330	24.0
D150	505	275	106	240	N/A	49.0
DT08	414	251	112	190	N/A	21.0
DT15	440	289	106	190	N/A	26.0
DT22	503	313	145	190	N/A	39.0
DT37	518	313	145	220	N/A	45.0



PUMP-OUT SUMP:	
MAX TANK DEPTH (UPSTREAM)	1.615m
MAX TANK DEPTH (DOWNSTREAM)	1.625m
WIDTH	2.0m
LENGTH	2.0m
VOLUME PROVIDED	6.5m3



PUMP OUT PIT - PLAN VIEW

SCALE - 1:50

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SCALE BAR 1:200

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DESCRIPTION: Proposed Two Storey Dwelling with Basement Garage, Inground pool & Cabana

CLIENT: Mr Nachabe

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329/462 Chapel Rd,
Bankstown 2200

REV:	DESCRIPTION:	DATE:
A	PRELIMINARY	AUG 24

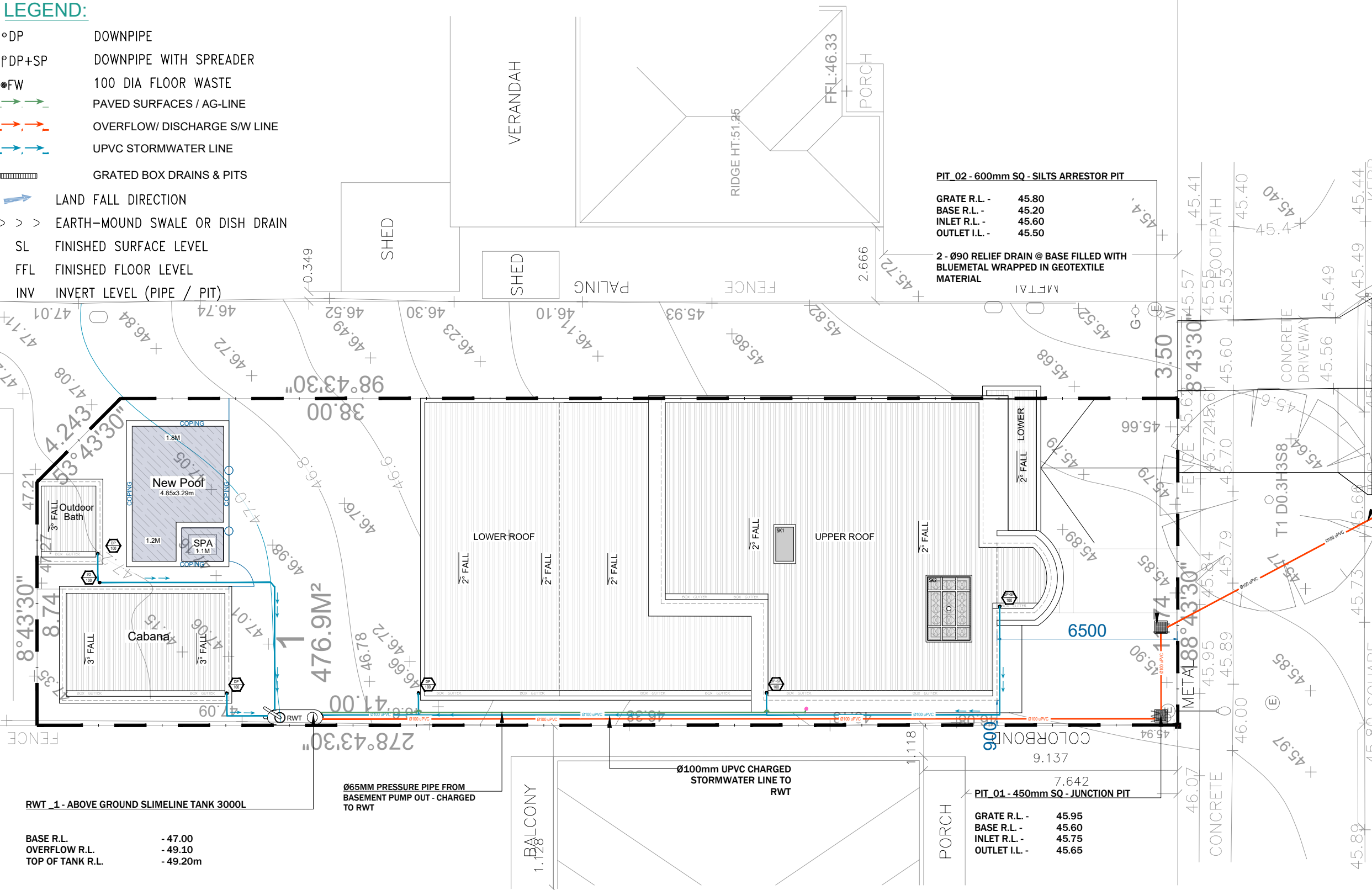
SUBJECT SITE: Bankstown, 88 The Avenue

DRAWING TITLE: Pump Storage tank details

SCALE/ SHEET SIZE	1:200	A3	PREPARED: I.M	SHEET NO.: D.02
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LEGEND:

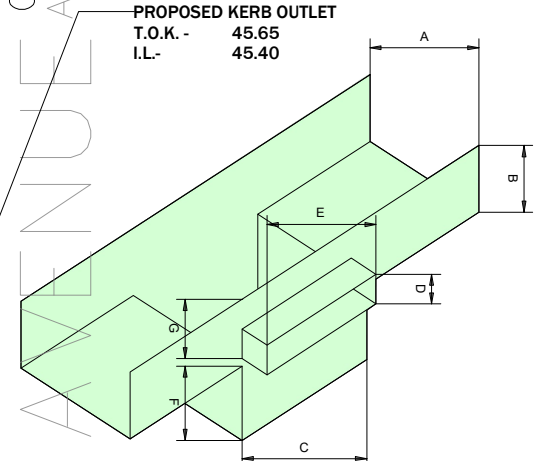
- °DP DOWNPIPE
PDP+SP DOWNPIPE WITH SPREADER
●FW 100 DIA FLOOR WASTE
→ PAVED SURFACES / AG-LINE
→ OVERFLOW/ DISCHARGE S/W LINE
→ UPVC STORMWATER LINE
▤ GRATED BOX DRAINS & PITS
→ LAND FALL DIRECTION
>>> EARTH-MOUND SWALE OR DISH DRAIN
SL FINISHED SURFACE LEVEL
FFL FINISHED FLOOR LEVEL
INV INVERT LEVEL (PIPE / PIT)



PIT_02 - 600mm SQ - SILTS ARRESTOR PIT
GRATE R.L. - 45.80
BASE R.L. - 45.20
INLET R.L. - 45.60
OUTLET I.L. - 45.50

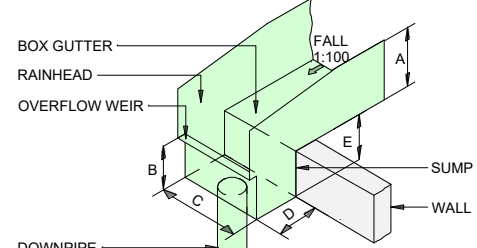
2 - Ø90 RELIEF DRAIN @ BASE FILLED WITH
BLUEMETAL WRAPPED IN GEOTEXTILE
MATERIAL

PIT_01 - 450mm SQ - JUNCTION PIT
GRATE R.L. - 45.95
BASE R.L. - 45.60
INLET R.L. - 45.75
OUTLET I.L. - 45.65



RAINHEAD DETAIL 1	
TYPE	SIZE (mm)
A	400
B	200
C	400
D	67
E	300
F	127
G	179

BOX GUTTER SUMP WITH SIDE OVERFLOW
Scale: 1 : 10



RAINHEAD DETAIL 1	
TYPE	SIZE (mm)
A	200
B	145
C	300
D	125
E	170

RAINHEAD DETAIL 2	
TYPE	SIZE (mm)
A	150
B	105
C	300
D	130
E	130

RAINHEAD OVERFLOW DETAIL
Scale: 1 : 10

1 STORMWATER PLAN

SCALE: 1:150 @ A3

!ATTENTION!
PLANS TO BE READ ON CONJUNCTION WITH ARCHITECTURAL PLANS

!ATTENTION!
IT'S THE BUILDERS RESPONSIBILITY TO LOCATE ALL SERVICES BEFORE EXCAVATION

!ATTENTION!
CATCHMENT AREA OF EACH DF TO BE ROUGHLY SIMILAR SIZE LENGTH OF ANY GUTTER DRAINING TO A DOWNPIPE TO BE NO LONGER THAN 12M (NCC vol.12)

WARNING:
EXISTING SERVICES HAVE BEEN PLOTTED FROM RECORDS SUPPLIED BY THE PUBLIC UTILITY AUTHORITIES. LOCATIONS HAVE BEEN INTERPRETED FROM THESE RECORDS AND ARE APPROXIMATE ONLY. EXTREME CAUTION SHOULD BE TAKEN WHEN EXCAVATING

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DOWNPIPE NOTE:
ALL DOWNPIPE LOCATION IS INDICATIVE ONLY AND TO BE DETERMINED AND CONFIRMED ON SITE BY THE BUILDER/PLUMBER TO AVOID LOCATION OF WALL OPENINGS FOR WINDOWS AND DOORS.

FLOOR WASTES ARE TO BE PROVIDED FOR BALCONY AND EXPOSED DECK ABOVE GROUND

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SUBJECT SITE: Bankstown, 88 The Avenue

DRAWING TITLE: Stormwater Plan

SCALE/ SHEET SIZE	1:200	A3	PREPARED: I.M	SHEET NO.	D.03
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