

PROPOSED BOARDING HOUSE AT 7 ALBION STREET, HARRIS PARK NSW 2150

www.dialbeforeyoudig.com.au



Dial Before You Dig should be contacted prior to any excavation on site. Trade Mark of the Association of Dial Before You Dig Services Ltd. Used under license.

CONCEPT STORMWATER DESIGN PLANS

LEGEND	
	STORMWATER LINE
	SUBSOIL LINE
	STORMWATER RISING MAIN
	EXISTING STORMWATER LINE
	AUTHORITY STORMWATER LINE
	AUTHORITY SEWER LINE
	AUTHORITY WATER LINE
	AUTHORITY GAS LINE
	AUTHORITY ELECTRICITY LINE
	AUTHORITY UNDERGROUND ELECTRICITY LINE
	AUTHORITY FIBRE OPTIC LINE
	AUTHORITY COMMS LINE
	FENCE LINE
	GRATED SURFACE INLET PIT
	GRATED SURFACE INLET PIT WITH ENVIROPD INSERT
	JUNCTION PIT
	KERB INLET PIT
	EXISTING GRATED SURFACE INLET PIT
	GRATED TRENCH DRAIN
	EXISTING JUNCTION PIT
	EXISTING KERB INLET PIT
	EXISTING TELSTRA PIT
	EXISTING HYDRANT
	EXISTING STOP VALVE
	EXISTING GAS VALVE
	EXISTING POWER POLE
	EXISTING BOUNDARY TRAP

LEGEND	
	EXISTING SEWER MANHOLE
	OVERLAND FLOW PATH
	RAINWATER OUTLET
	CLEAR OUT POINT
	DISH DRAIN OUTLET
	PLANTER DRAIN
	CAPPING
	PIT TAG/NUMBER
	RAINHEAD
	DOWNPIPE DROP
	NON RETURN VALVE
	WALL PENETRATION
	DOWNPIPE
	DOWNPIPE + SPREADER
	WARNING LIGHT
	SPOT LEVELS
	BENCHMARK

ABBREVIATIONS:

Ø or DIA	DIAMETER
CBR	CALIFORNIA BEARING RATIO
CH	CHAINAGE
CL	CENTER LINE
CO	CLEAR OUT
DD	DISH DRAIN
DDO	DISH DRAIN OUTLET
DEJ	DOWELLED EXPANSION JOINT
DGB	DENSE GRADED BASECOURSE
DGS	DENSE GRADED SUB-BASE
DP	DOWNPIPE
e	EXISTING
FFL	FINISHED FLOOR LEVEL
GTD	GRATED TRENCH DRAIN
GSIP	GRATED SURFACE INLET PIT
HYD	HYDRANT
IJ	ISOLATING JOINT
IK	INTEGRAL KERB
IL	INVERT LEVEL
IP	INTERSECTION POINT
KIP	KERB INLET PIT
KO	KERB ONLY
K&G	KERB & GUTTER
KR	KERB RETURN
LS	LONGITUDINAL SECTION
NGL	NATURAL GROUND LEVEL
OFP	OVERLAND FLOW PATH
OSD	ON-SITE DETENTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RK	ROLL KERB & GUTTER
RL	REDUCED LEVEL
RW	RETAINING WALL
RWT	RAINWATER TANK
SJ	SAWN CONTROL JOINT
SMH	SEWER MAN HOLE
SW	STORMWATER
SWP	STORMWATER PIT
SWRM	STORMWATER RISING MAIN
SWS	STORMWATER SUMP
SV	STOP VALVE
TOK	TOP OF KERB
TOW	TOP OF WALL
TWL	TOP WATER LEVEL
TP	TANGENT POINT
UPVC	UNPLASTICISED POLYVINYL CHLORIDE
UNO	UNLESS NOTED OTHERWISE
WPJ	WEAKENED PLANE JOINT
FF	FIRST FLUSH DEVICE
TYP	TYPICAL

DRAINAGE NOTES:

ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY SUPPORTED

100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE

MINIMUM DEPTH OF COVER FOR PIPES NOT SUBJECT TO VEHICULAR LOADING TO BE 300mm

ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS

BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE MATERIAL

ALL PITS TO HAVE 600x600mm INTERNAL DIMENSIONS (U.N.O.)

SILT ARRESTORS TO HAVE 900x900mm INTERNAL DIMENSIONS

HEAVY DUTY GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS

PIT GRATE TO BE TYPE WELDLOK OR APPROVED EQUIVALENT

ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP

ALL PITS SHALL BE MAINTAINED REGULARLY

TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE DIAMETER

MAXIMUM FRONT ENTRY PIPE:-
STRAIGHT ENTRY - Ø750
SKEW ENTRY 45° - Ø525

Ø100 SUBSOIL DRAINAGE PIPE 3000mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES

COMPRESSIVE STRENGTH f_c FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 20MPa AT 28 DAYS

PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS

ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS

ALL TRENCH GRATES PROVIDED SHALL HAVE A MINIMUM CLEAR WIDTH OF 200mm

STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL

STORMWATER PIPE BEDDING/PAVING NOTES:

WHERE TRENCH BASE IS ROCK A MINIMUM OF 75mm BEDDING TO BE PROVIDED UNDER PIPE COLLARS.

STORMWATER PIPE BEDDING DETAIL TO BE IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENTS. BEDDING DETAILS TO BE CONFIRMED UPON EXCAVATION & PRIOR TO INSTALLATION OF PIPEWORK.

FOOTPATH REINSTATEMENT NOTES:

REMOVE ALL SAND FILL WITHIN THE FOOTPATH AREA TO THE EXISTING SUBGRADE.

SUPPORT ALL AUTHORITY SERVICES TO STRUCTURAL ENGINEERS DETAILS DURING EXCAVATION.

REINSTATE FOOTPATH SUBGRADE.

THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPACTION FROM A NATA REGISTERED TESTING AUTHORITY. MINIMUM THREE TESTS PER LAYER AS FOLLOWS:
SELECT FILL 95% MODIFIED
SELECT FILL (LESS THAN 300mm BELOW BASE COURSE) 98% MODIFIED
BASE COURSE 100% MODIFIED

EROSION & SEDIMENT CONTROL NOTES:

PROVIDE SILT FENCE/HAY BAIL BARRIERS TO THE LOW SIDE OF ALL EXPOSED EARTH EXCAVATIONS (TYPICAL).

ISOLATE EXISTING STORMWATER PITS WITH HAY BALES TO FILTER ALL INCOMING FLOWS.

DO NOT STOCK PILE EXCAVATED MATERIAL ON THE ROAD WAY.

SURVEY

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY G & R SURVEYING SERVICES P/L.

THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN.

GEBA CONSULTING DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT GEBA CONSULTING.

ADOPT LEVELS SSM 76536, RL: 19.792 AS PER G & R SURVEYING SERVICES P/L. REFERENCE: 1671.

DRAWING REGISTER

NUMBER	NAME	REVISION
SW01	COVER SHEET & SPECIFICATIONS	D
SW02	EROSION & SEDIMENT CONTROL PLAN	D
SW03	SITE STORMWATER PLAN	D
SW04	DETAIL SHEET	D

SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.



GEBA Consulting
Level 15, Suite 1503, 99 Bathurst Street,
Sydney NSW 2000
ABN 76 604 068 013

W : www.gebaconsulting.com.au
E : info@gebaconsulting.com.au
P : 02 9062 8400

GEORGE ELBARHOUN
B.E. (Civil - Construction)
(Hons1), Dip. Eng. Prac.
MIEAust 4650502

Client
SAMIRA ABBOD
Architect
CRACKNELL & LONERGAN ARCHITECTS PTY LTD
Project
PROPOSED BOARDING HOUSE
Address
7 ALBION STREET, HARRIS PARK NSW 2150

Scale

SCALE 1:100 ON ORIGINAL SIZE

Northpoint

Description	Des.	Chk.	App.	Rev.	Date
FOR APPROVAL	E.Z.	G.E.	G.E.	A	09.12.20
FOR APPROVAL	E.Z.	G.E.	G.E.	B	18.01.21
FOR APPROVAL	J.S.	G.E.	G.E.	C	16.11.21
FOR APPROVAL	E.Z.	G.E.	G.E.	D	16.05.22

DEVELOPMENT APPLICATION (DA)

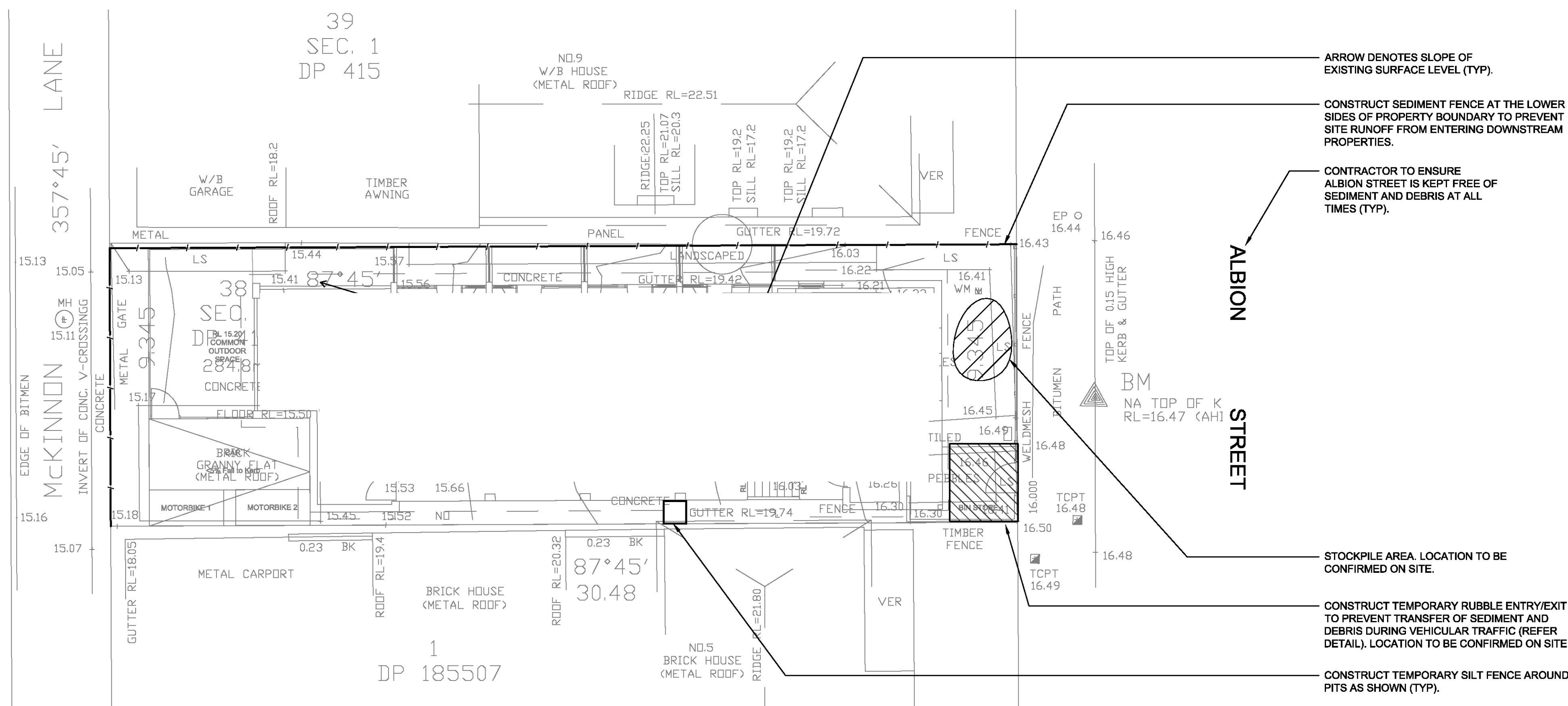
This drawing remains the property of GEBA Consulting and must not be written or reproduced without consent

COVER SHEET & SPECIFICATIONS

Project number	Drawing number	Original Size	Scale
GC20205	SW01	A1	1:100



Dial Before You Dig should be contacted prior to any excavation on site. Trade Mark of the Association of Dial Before You Dig Services Ltd. Used under license.



ARROW DENOTES SLOPE OF EXISTING SURFACE LEVEL (TYP).

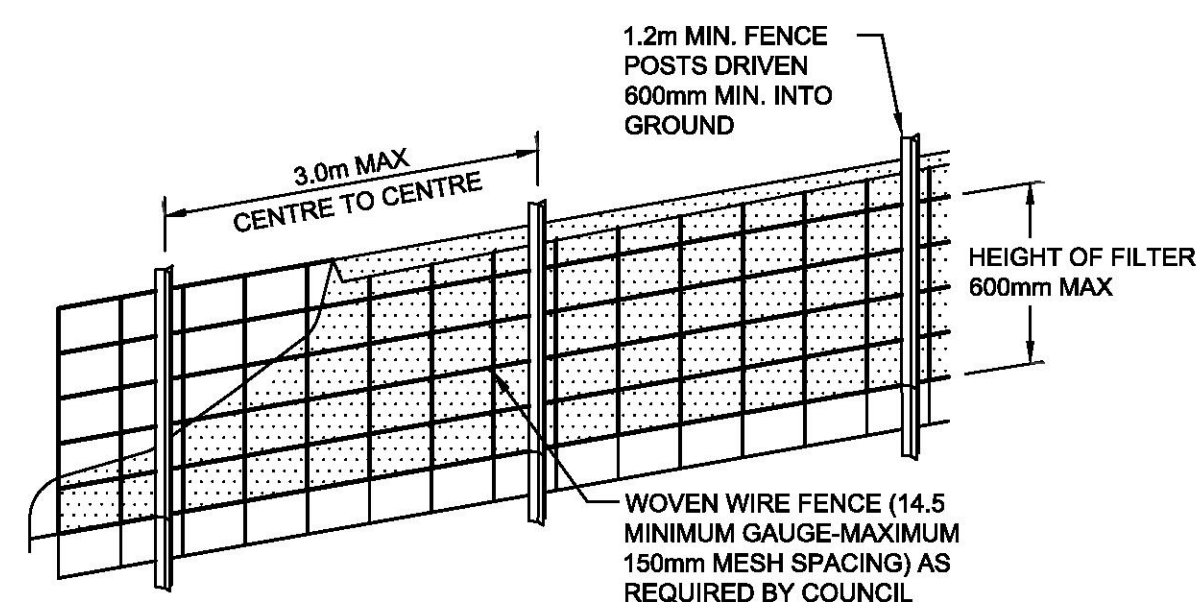
CONSTRUCT SEDIMENT FENCE AT THE LOWER SIDES OF PROPERTY BOUNDARY TO PREVENT SITE RUNOFF FROM ENTERING DOWNSTREAM PROPERTIES.

CONTRACTOR TO ENSURE ALBION STREET IS KEPT FREE OF SEDIMENT AND DEBRIS AT ALL TIMES (TYP).

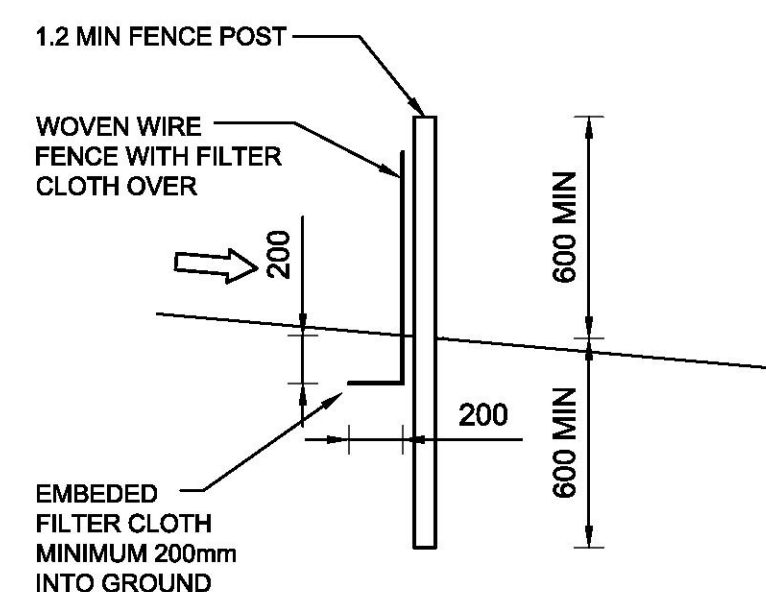
STOCKPILE AREA. LOCATION TO BE CONFIRMED ON SITE.

CONSTRUCT TEMPORARY RUBBLE ENTRY/EXIT TO PREVENT TRANSFER OF SEDIMENT AND DEBRIS DURING VEHICULAR TRAFFIC (REFER DETAIL). LOCATION TO BE CONFIRMED ON SITE.

CONSTRUCT TEMPORARY SILT FENCE AROUND PITS AS SHOWN (TYP).

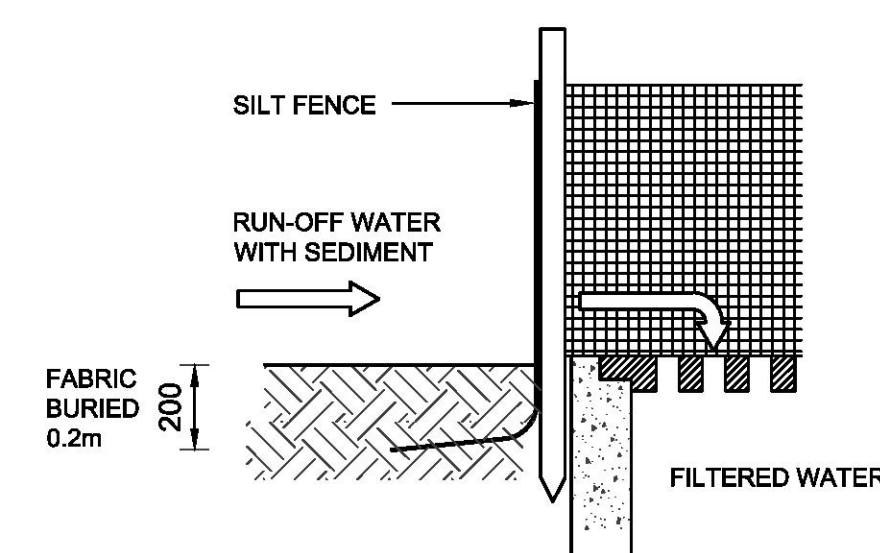
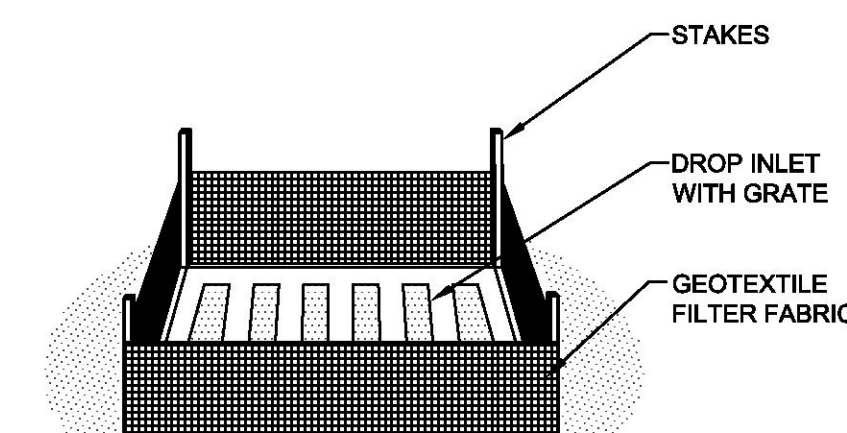


DIAGRAMMATIC VIEW

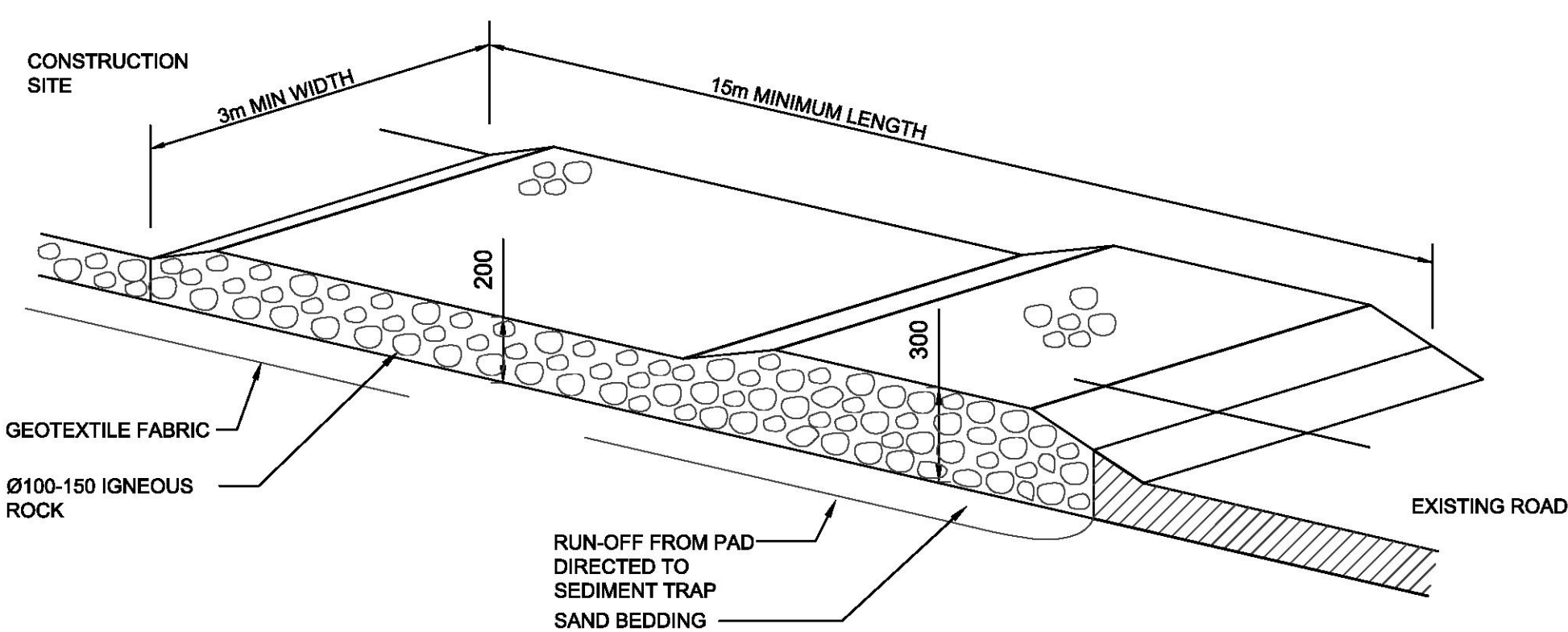


TYPICAL SECTION

DETAIL 2
SEDIMENT FENCE
NOT TO SCALE



DETAIL 3
SUMP SEDIMENT TRAP
NOT TO SCALE



RUBBLE ALTERNATIVE

DETAIL 1
TEMPORARY
CONSTRUCTION EXIT
NOT TO SCALE



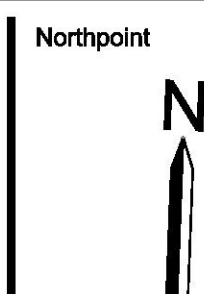
GEBA Consulting
Level 15, Suite 1503, 99 Bathurst Street,
Sydney NSW 2000
ABN 76 604 068 013

W : www.gebaconsulting.com.au
E : info@gebaconsulting.com.au
P : 02 9062 8400

GEORGE ELBARHOUN
B.E. (Civil - Construction)
(Hons1), Dip. Eng. Prac.
MIEAust 4650502

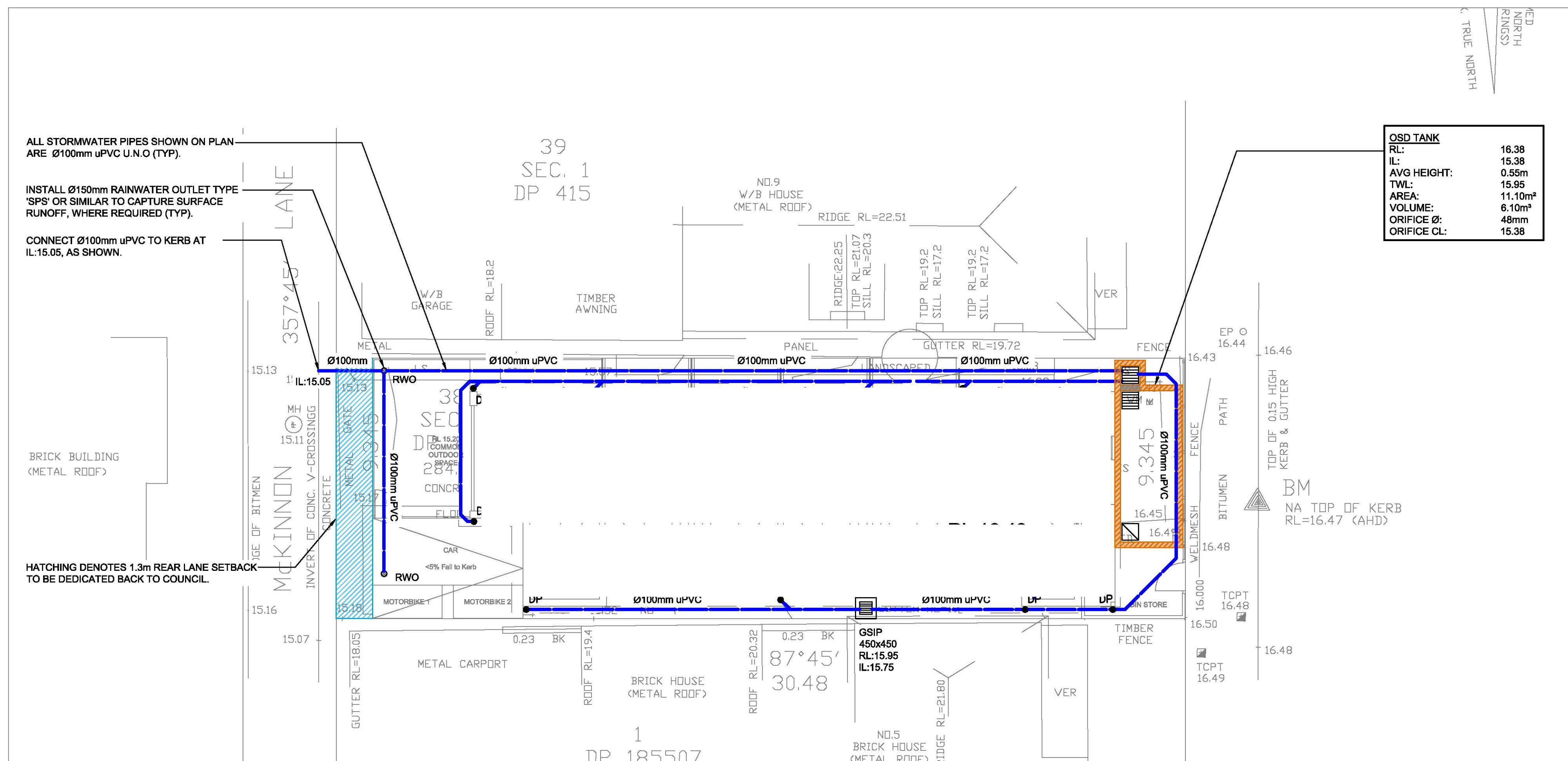
Client
SAMIRA ABBOD
Architect
CRACKNELL & LONERGAN ARCHITECTS PTY LTD
Project
PROPOSED BOARDING HOUSE
Address
7 ALBION STREET, HARRIS PARK NSW 2150

Scale
0m 1 2 3 4 5
SCALE 1:100 ON ORIGINAL SIZE

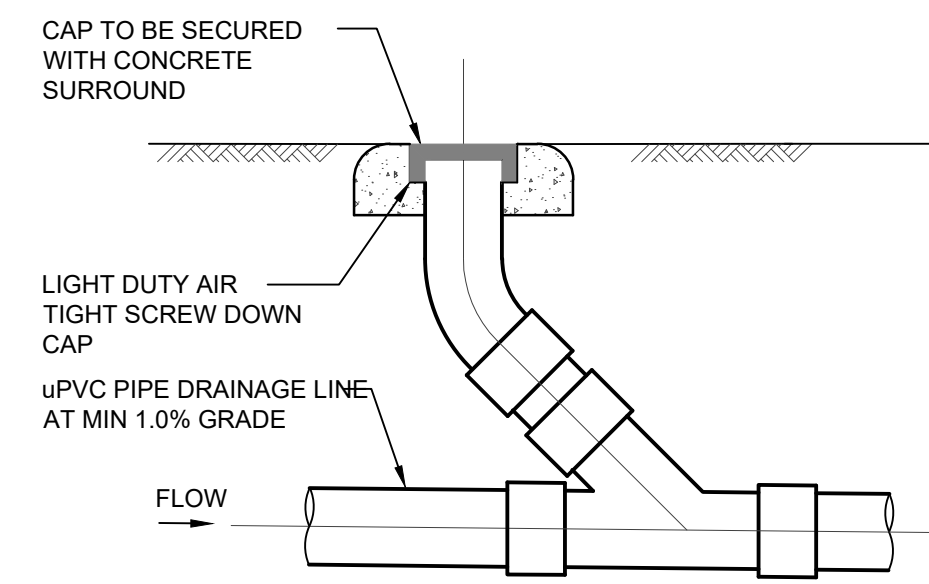
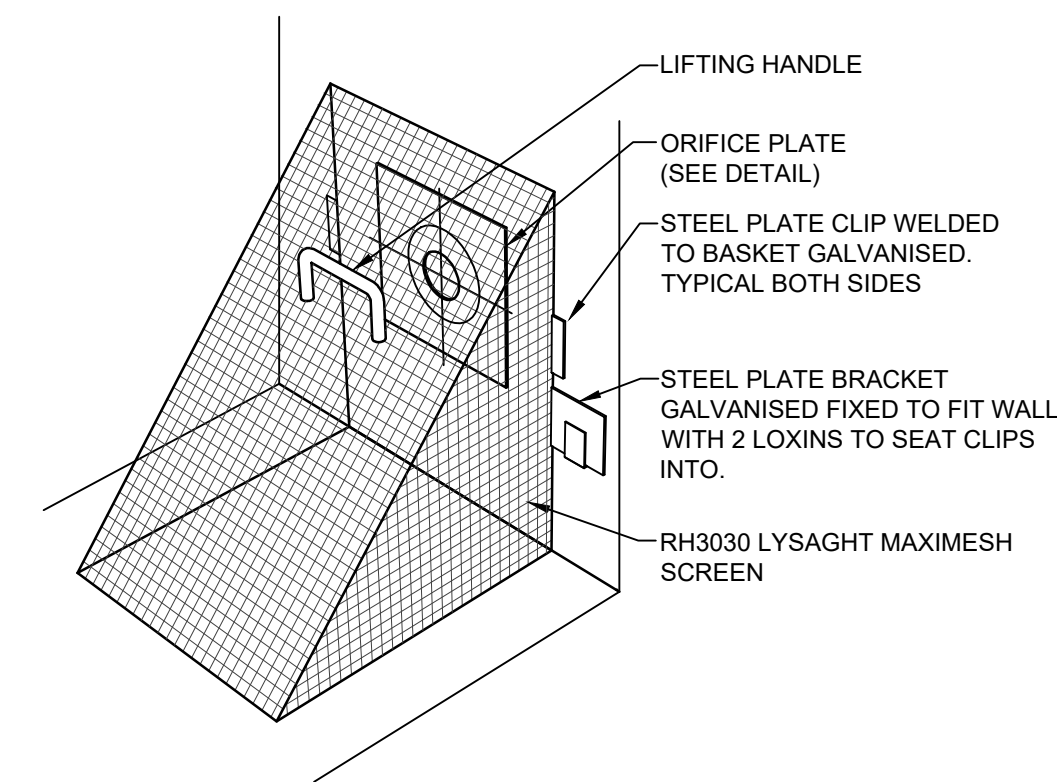
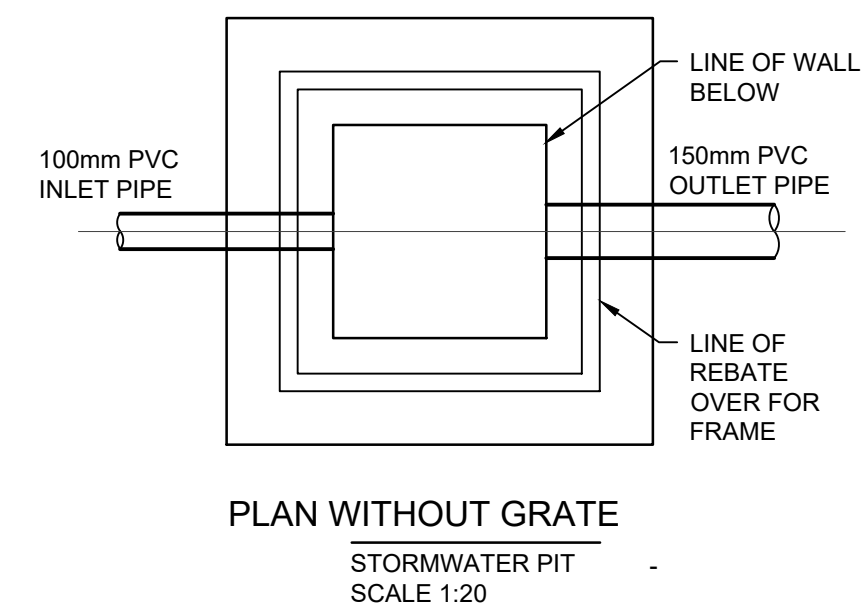
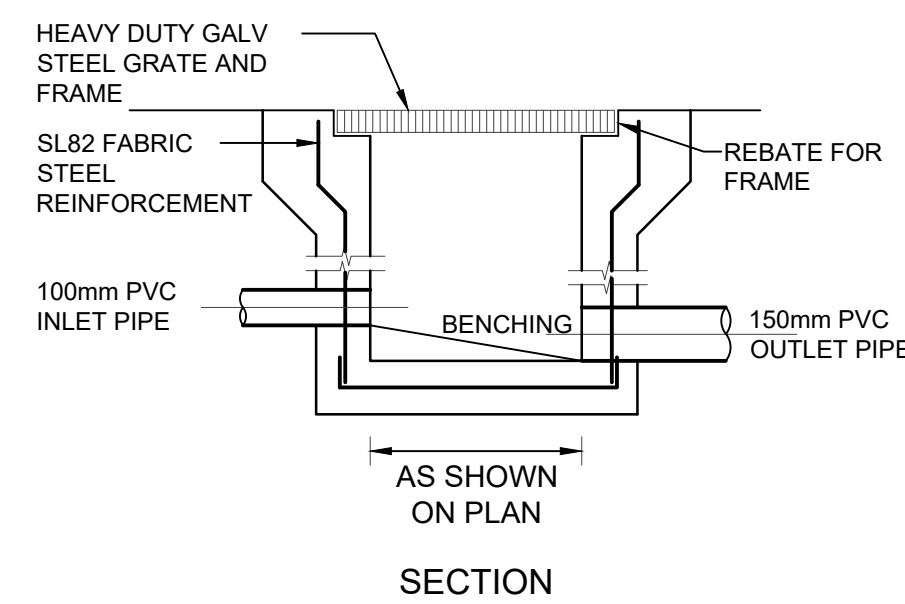
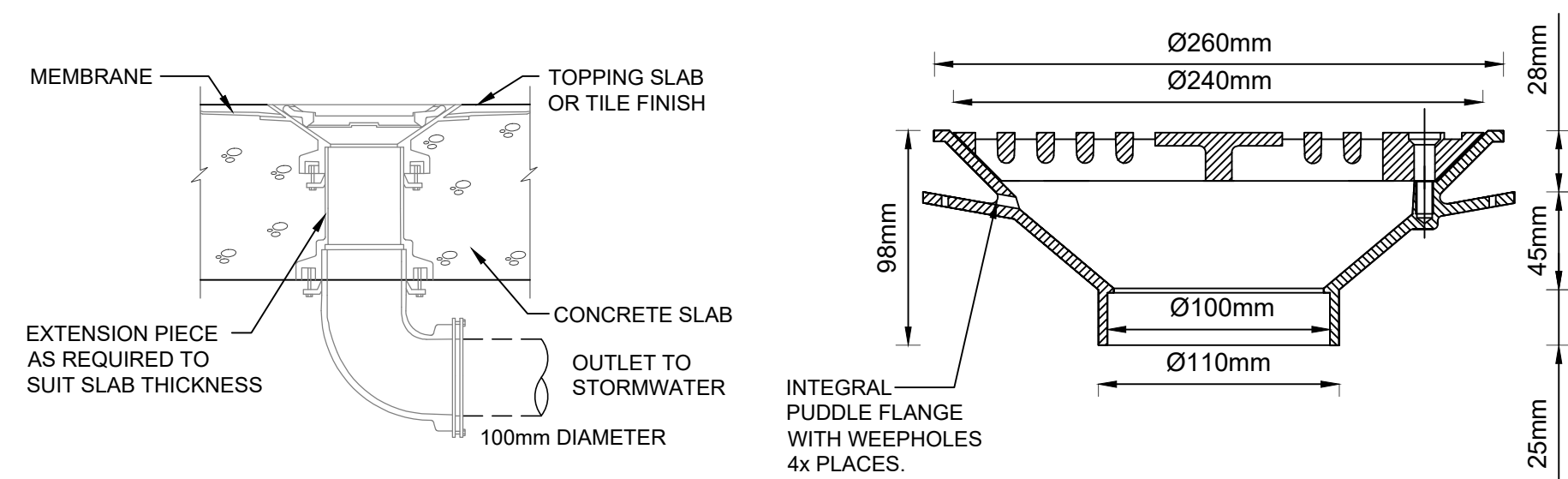
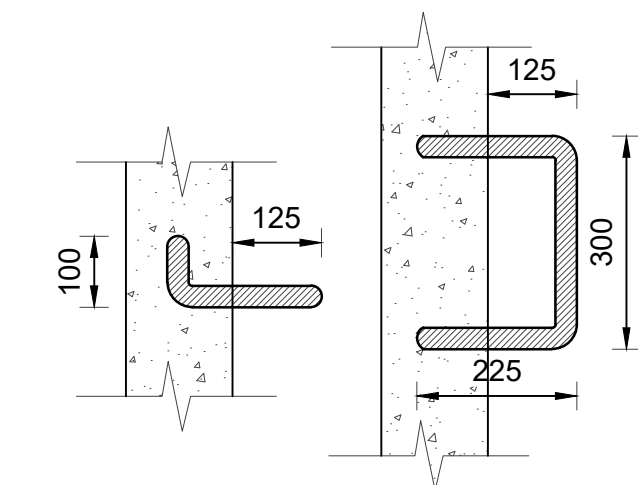
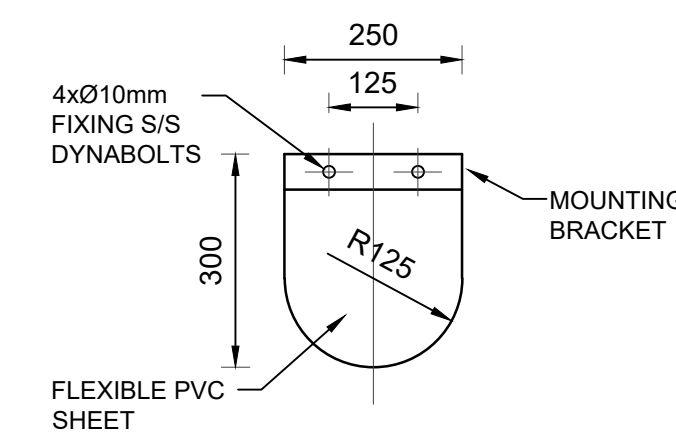
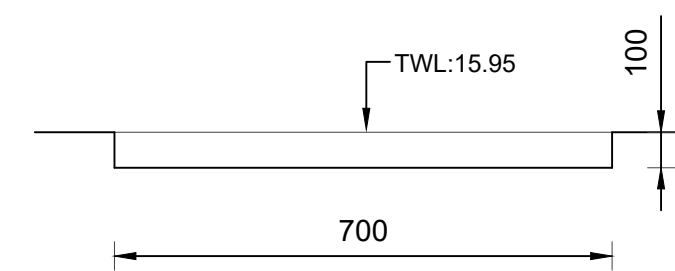
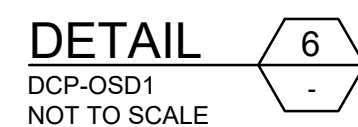
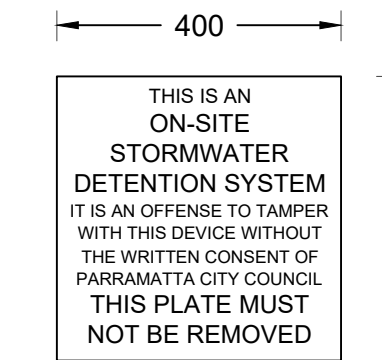
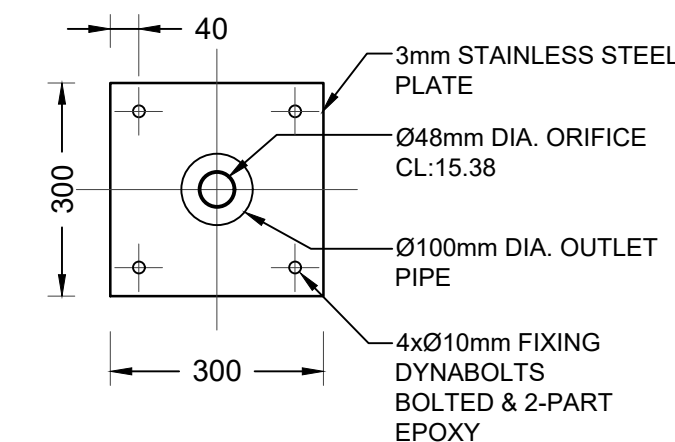
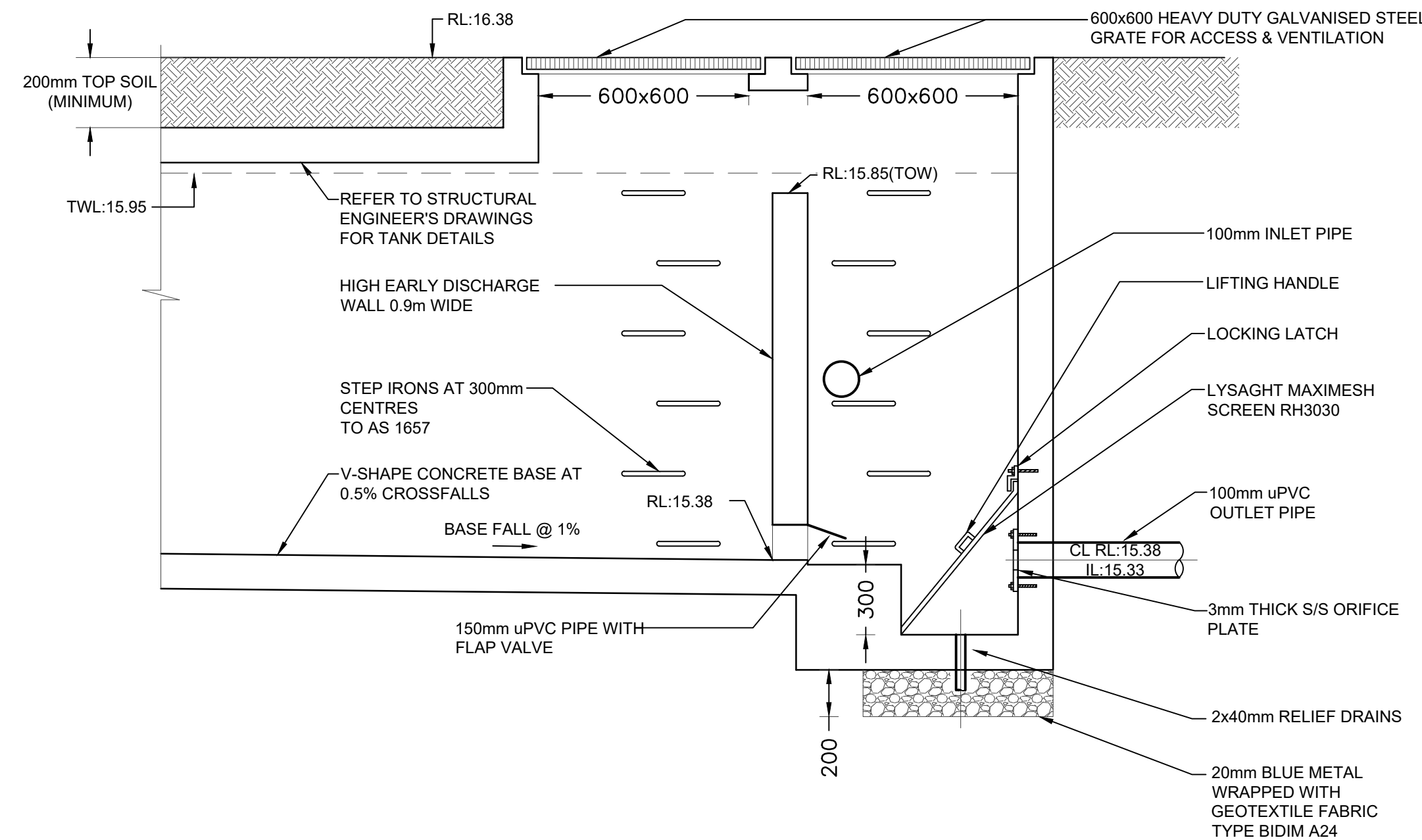


Description	Des.	Chk.	App.	Rev.	Date
FOR APPROVAL	E.Z.	G.E.	G.E.	A	09.12.20
FOR APPROVAL	E.Z.	G.E.	G.E.	B	18.01.21
FOR APPROVAL	J.S.	G.E.	G.E.	C	16.11.21
FOR APPROVAL	E.Z.	G.E.	G.E.	D	16.05.22
Project number	GC20205	Drawing number	SW02	Original Size	A1
Scale	1:100				

DEVELOPMENT APPLICATION (DA)			
This drawing remains the property of GEBA Consulting and must not be written or reproduced without consent			
EROSION & SEDIMENT CONTROL PLAN			
Project number	Drawing number	Original Size	Scale
GC20205	SW02	A1	1:100



On-Site Detention Calculation Sheet					
Project:	BOARDING HOUSE		Lot No.		
Location:	7 Albion St, Harris Park		DP No.		
Designer:	GEBA Consulting		D.A. No.		
Phone:	02 9062 8400				
OSD Area:		PCC		PCC	
				Drowned	
Site Area		0.027		0.027	
Basic Storage Volume		5.86		8.18	
Basic Discharge		6.41		3.82	
Area of Site to Storage		0.022	79%	0.022	79%
Percentage of Site		79.46		79.46	
Storage per ha of contributing area		270.56		377.53	
Volume/PSD Adjustment		170.95		108.25	
PSD for site		3.70		2.34	
Maximum Head to Orifice Centre		0.570			
Calculated Orifice Diameter		0.048		0.048	
Maximum discharge		3.703		0.000	
Head for high early discharge		0.470			
High Early Discharge		3.362	91%	#DIV/0!	#DIV/0!
Mean Discharge		3.532		#DIV/0!	
Average Discharge per Hectare		163.006		#DIV/0!	
Final Site Storage Ratio		281		#DIV/0!	
Site Storage Volume		6.09		#DIV/0!	
Volume Provided		6.10	100%		#DIV/0!
Date Checked:		17-May-22			

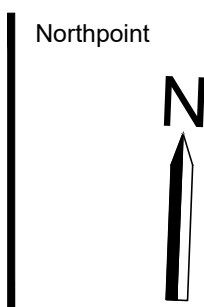


GEBA Consulting
Level 15, Suite 1503, 99 Bathurst Street,
Sydney NSW 2000
ABN 76 604 068 013
W : www.gebaconsulting.com.au
E : info@gebaconsulting.com.au
P : 02 9062 8400

GEORGE ELBARHOUN
B.E. (Civil - Construction)
(Hons1), Dip. Eng. Prac.
MIEAust 4650502

Client
SAMIRA ABBOD
Architect
CRACKNELL & LONERGAN ARCHITECTS PTY LTD
Project
PROPOSED BOARDING HOUSE
Address
7 ALBION STREET, HARRIS PARK NSW 2150

Scale
0m 1 2 3 4 5
SCALE 1:100 ON ORIGINAL SIZE



Description	Des.	Chk.	App.	Rev.	Date
FOR APPROVAL	E.Z.	G.E.	G.E.	A	09.12.20
FOR APPROVAL	E.Z.	G.E.	G.E.	B	18.01.21
FOR APPROVAL	J.S.	G.E.	G.E.	C	16.11.21
FOR APPROVAL	E.Z.	G.E.	G.E.	D	16.05.22

DEVELOPMENT APPLICATION (DA)			
This drawing remains the property of GEBA Consulting and must not be written or reproduced without consent			
DETAIL SHEET			
Project number	Drawing number	Original Size	Scale
GC20205	SW04	A1	1:100