
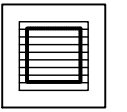

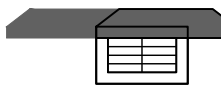



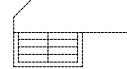
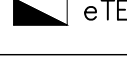







STORMWATER DRAINAGE PLAN

PROPOSED ALTERATIONS & ADDITIONS AT

6 LYLY ROAD, ALLAMBIE HEIGHTS NSW 2100

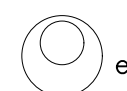




| LEGEND | |
|---|--|
| DP ● | DOWNPIPE |
| — >>> — | STORMWATER LINE |
| — >>> — | STORMWATER LINE DRAINING TO RTW |
| — OF — | OVER FLOW PIPE |
| — SSD — | SUBSOIL LINE |
| — SWRM — | STORMWATER RISING MAIN |
| — e — | EXISTING STORMWATER LINE |
| — SW — SW — | AUTHORITY STORMWATER LINE |
| — HL — HL — | HIGH LEVEL STORMWATER LINE |
| — S — | AUTHORITY SEWER LINE |
| — W — | AUTHORITY WATER LINE |
| — G — G — | AUTHORITY GAS LINE |
| — — — | AUTHORITY ELECTRICITY LINE |
| — FO — FO — FO — | AUTHORITY FIBRE OPTIC LINE |
| — TEL — | AUTHORITY COMMS LINE |
| — / — / — | FENCE LINE |
|  | GRADED SURFACE INLET PIT |
|  | GRADED SURFACE INLET PIT WITH ENVIROPOD INSERT |
|  | JUNCTION PIT |
|  | KERB INLET PIT |
|  | EXISTING GRADED SURFACE INLET PIT |
|  | GRADED 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 |



DIAL BEFORE YOU DIG SHOULD BE CONTACTED PRIOR TO ANY EXCAVATION ON SITE

TM: TRADE MARK OF THE ASSOCIATION OF DIAL BEFORE YOU DIG SERVICES LTD. USED UNDER LICENSE.

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.

| LEGEND | |
|--|------------------------|
| FF ● | FIRST FLUSH |
|  eSMH | EXISTING SEWER MANHOLE |
| OFP → | OVERLAND FLOW PATH |
| RWO ● | RAINWATER OUTLET |
| CO ● | CLEAR OUT POINT |
| DDO ● | DISH DRAIN OUTLET |
| PD ● | PLANTER DRAIN |
|] | CAPPING |
| (1.01) | PIT TAG/NUMBER |
| RH ☉ | RAINHEAD |
|  | DOWNPIPE DROP |
|  | NON RETURN VALVE |
|  | WALL PENETRATION |
| DP ● □ | DOWNPIPE SPREADER |
|  | WARNING LIGHT |
| 0.00 ● | SPOT LEVELS |
| ▲ | BENCHMARK |

| DRAWING REGISTER | | |
|------------------|--------------------|----------|
| NUMBER | NAME | REVISION |
| SWDP01 | COVER SHEET | A |
| SWDP02 | STORMWATER PLAN | A |
| SWDP03 | STORMWATER DETAILS | A |

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 | GRADED TRENCH DRAIN |
| GSIP | GRADED 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 |
| BM | BENCH MARK |

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 WELDLK 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 GEODESY SURVEY GROUP, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. BMY BUILDING CONSULTANTS DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAW.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT BMY BUILDING CONSULTANTS.

ADOPT DATUM AHD RL:38.84 (A.H.D) AS PER SS198816.

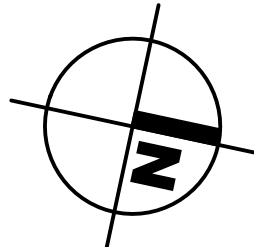
IT IS THE BUILDERS RESPONSIBILITY TO MAKE SURE ALL SURVEY MARKS TO BE PRESERVED AT ALL COST.

BMV BUILDING CONSULTANTS Pty Ltd
SHOP 2, 157-159 GREAT WESTERN HWY
MAYS HILL NSW, 2145
ABN 33 629 286 522

Phone: 0411 433 017
Website: www.bmybuildingconsultants.com.au
Email: info@bmybuildingconsultants.com.au
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| REV | DESCRIPTION | DATE | ISSUED | CHECKED |
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| A | ISSUE FOR APPROVAL | 07.07.2021 | M.Y | M.Y |
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PROJECT

PROPOSED ALTERATIONS & ADDITIONS AT
6 LYLY ROAD, ALLAMBIE HEIGHTS NSW 2100

CLIENT

ANASTASIA & NIKOLINA

DRAWING

COVER SHEET

MOUSSA YOUSSEF B.E (Civl - Structures), Dip. Eng. Prac.

| PROJECT NO. | DRAWING NO. | REVISION | DATE |
|-------------|-------------|------------|----------|
| SW21454 | SWDP01 | A | 07.07.21 |
| SCALE @ A1 | DRAWN | AUTHORISED | |
| 1:100 | M.Y | M.Y | |
| 0 10m | | | |
| SCALE 1:100 | | | |

DESIGN NOTES:

THE SITE IS LOCATED IN NORTHERN BEACHES COUNCIL.

SITE AREA = 418.3m²

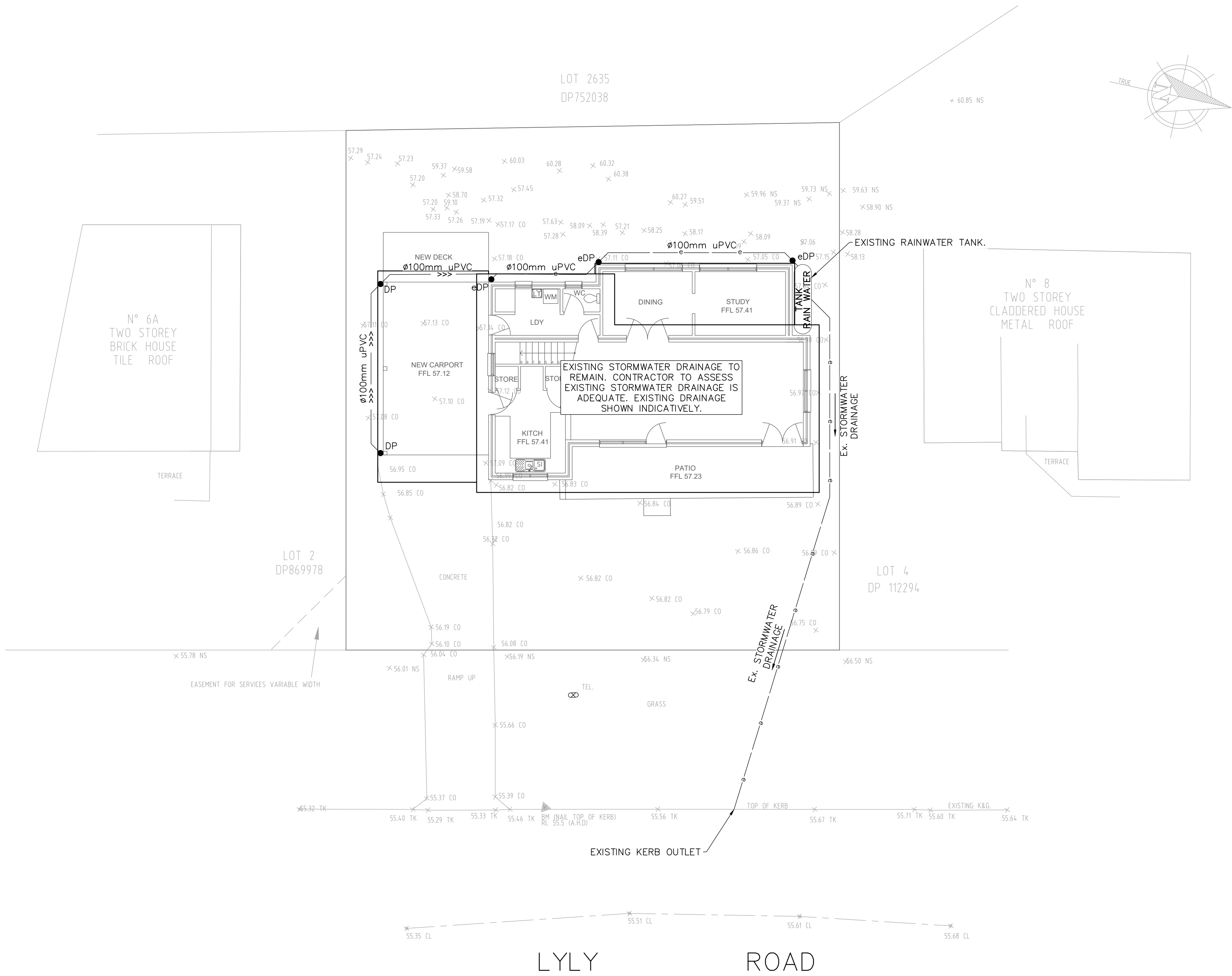
IN ACCORDANCE TO COUNCIL GUIDELINES OSD IS NOT REQUIRED, FOR SUBJECT DEVELOPMENT.

CONTRACTOR TO INSTALL ABOVE GROUND RAINWATER TANK TO COLLECT REQUIRED ROOF AREA IN ACCORDANCE WITH BASIX CERTIFICATE.

RAINWATER TANK TO BE EQUIPPED WITH FIRST FLUSH AND MOSQUITO PROTECTION DEVICES.

ALL NEW STORMWATER PIPES TO HAVE A MINIMUM OF 100mm CONCRETE OR 300mm TOPSOIL COVER U.N.O.

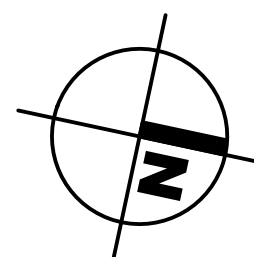
ALL DOWNPIPES SHOWN ON PLAN ARE ø100mm uPVC U.N.O.



BMJ BUILDING CONSULTANTS Pty Ltd
SHOP 2, 157-159 GREAT WESTERN HYW
MAYS HILL NSW, 2145
ABN 33 629 286 522
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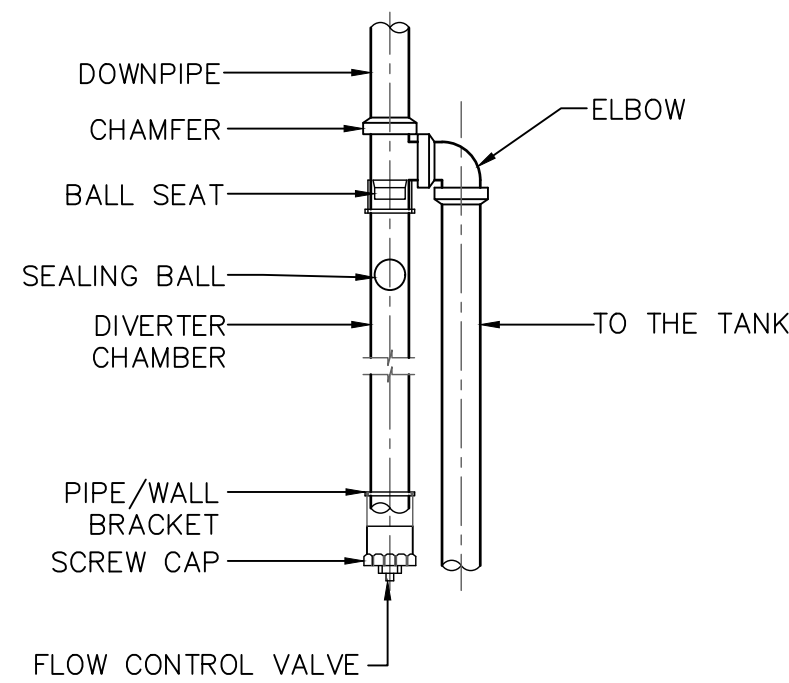


PROJECT
PROPOSED ALTERATIONS & ADDITIONS AT
6 LYLY ROAD, ALLAMBIE HEIGHTS NSW 2100
CLIENT
ANASTASIA & NIKOLINA

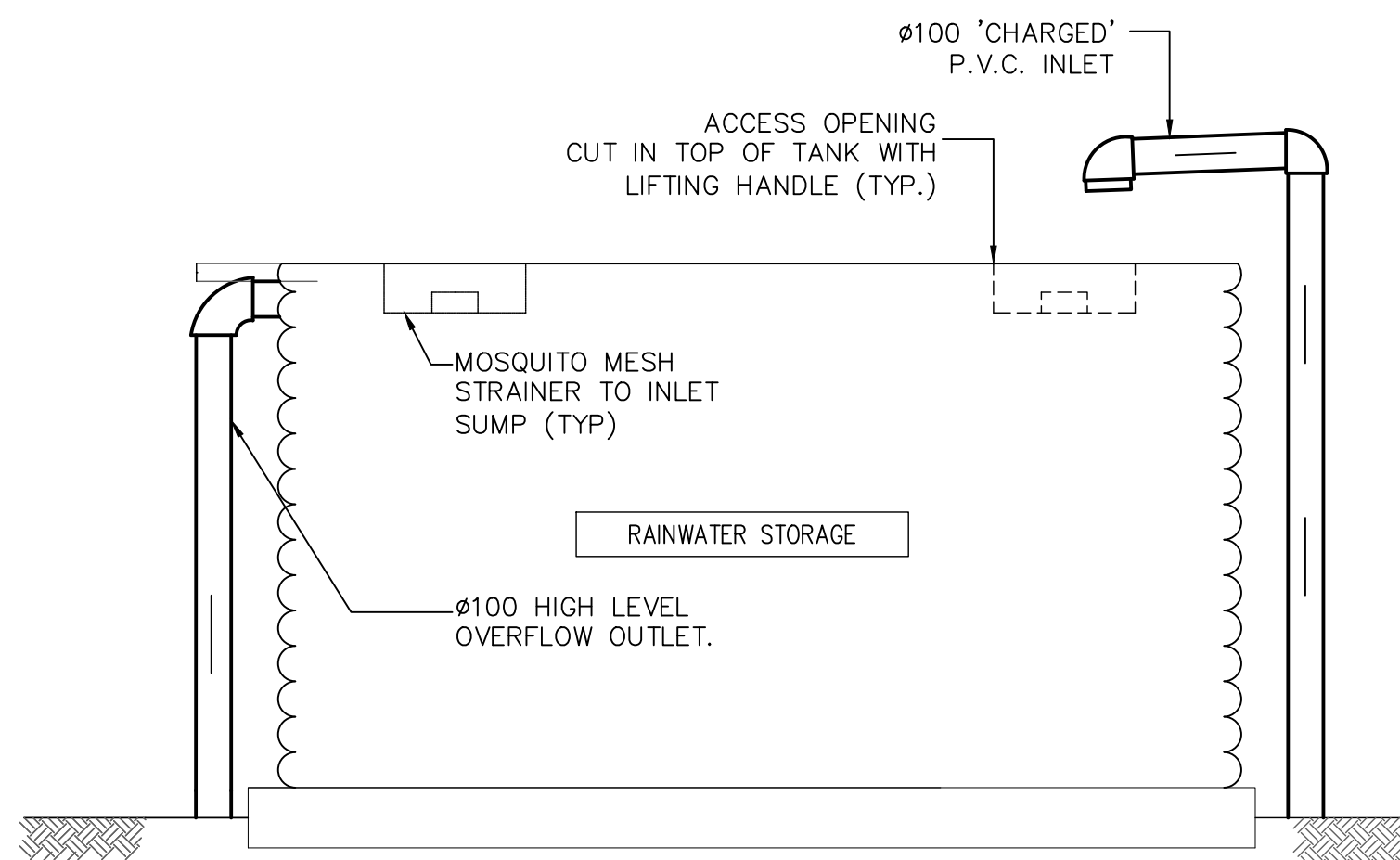
DRAWING
STORMWATER PLAN

MOUSSA YOUSSEF B.E (Civil - Structures), Dip. Eng. Prac.

| PROJECT NO. | DRAWING NO. | REVISION | DATE |
|-------------|-------------|------------|----------|
| SW21454 | SWDP02 | A | 07.07.21 |
| SCALE @ A1 | DRAWN | AUTHORISED | |
| 1:100 | M.Y | M.Y | |
| 0 | SCALE 1:100 | 10m | |



DETAIL 1
FIRST FLUSH DIVERTER
SCALE 1:20

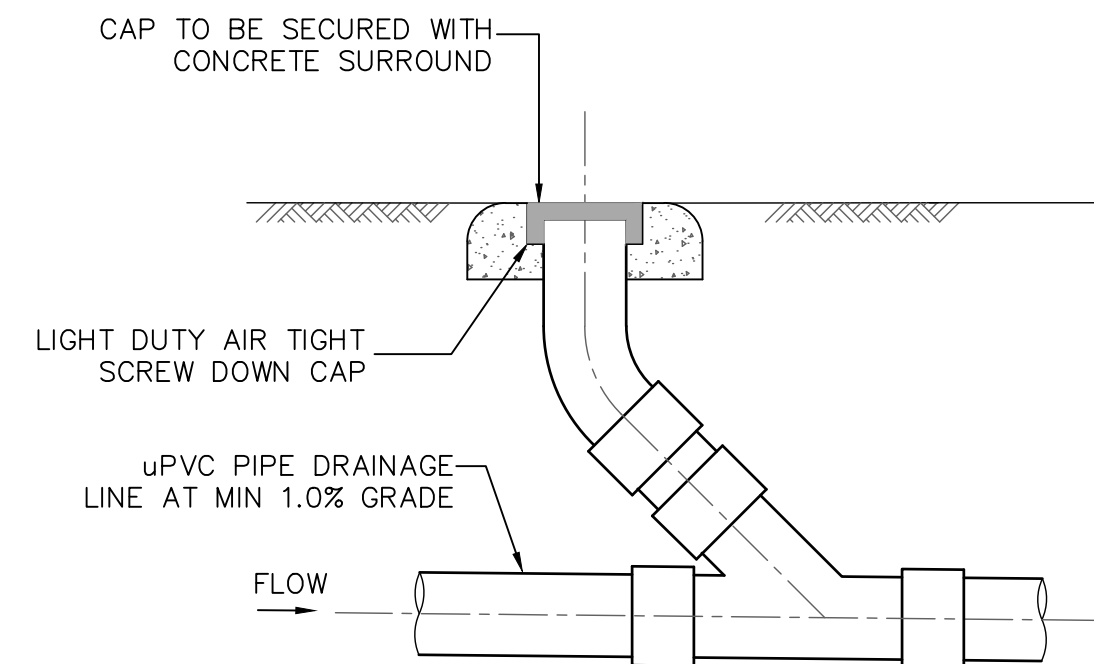


DETAIL 2
TYPICAL ABOVE GROUND
RAINWATER TANK
NOT TO SCALE

LEGEND:
BACKGROUND IS YELLOW
TEXT IS WHITE ON BLACK
BACKGROUND



DETAIL 3
RAINWATER SIGN
SCALE 1:10



DETAIL 4
CLEANING EYE
SCALE 1:20

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