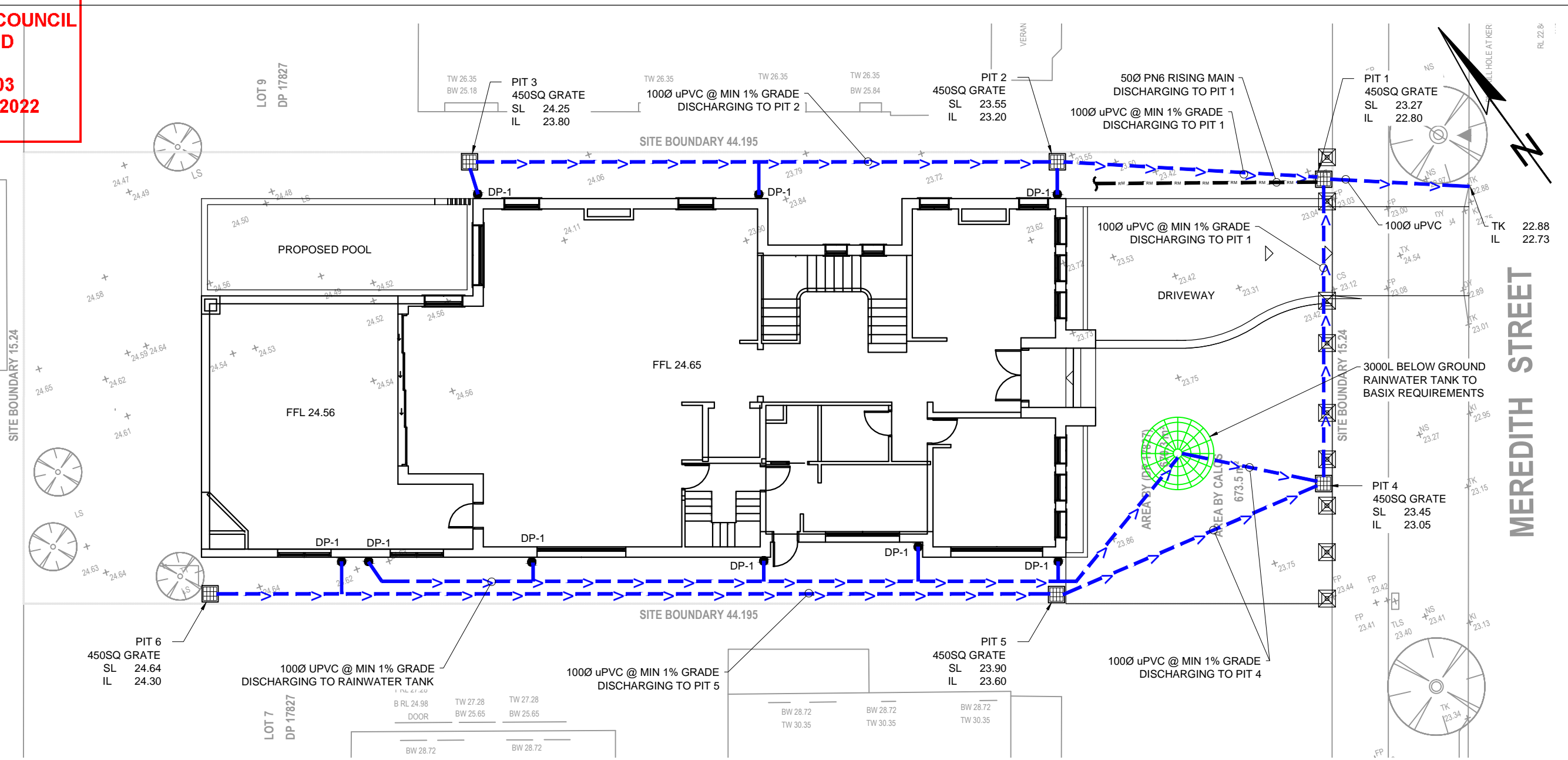
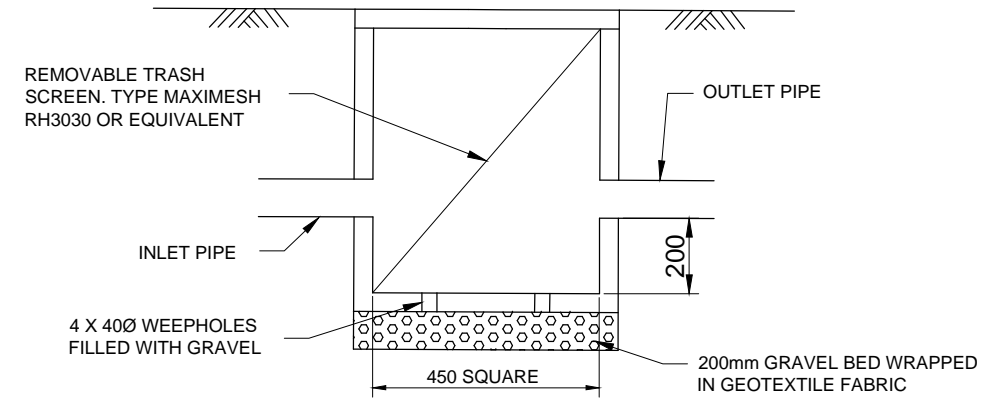


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SITE PLAN
SCALE: 1:150



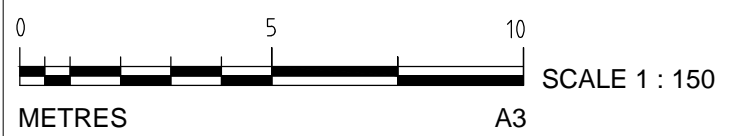
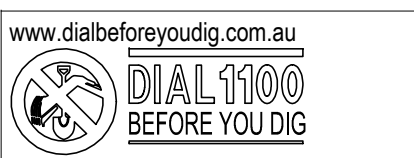
SILT ARRESTOR PIT 1 TYPICAL DETAIL
SCALE: 1:20

ALL PIPES TO BE 100Ø uPVC UNLESS OTHERWISE SHOWN

ALL GUTTERS TO HAVE MIN. 8500mm² X-SECT AREA.



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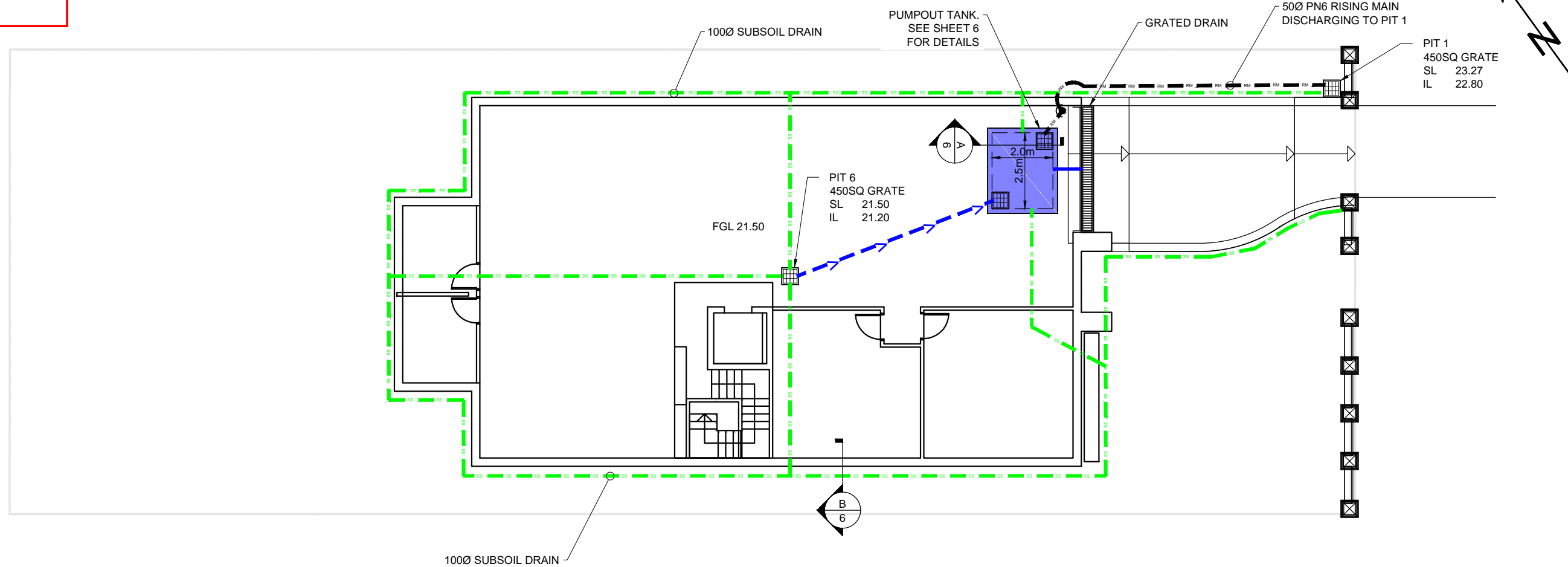


FOR DA APPROVAL

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| SURVEYOR | | 0 DA ISSUE | | 25/11/21 | | C.K. ENGINEERING SERVICES | | CLIENT: | | DRAWING TITLE: | | DRAWN: M.P. | | SIGNED: | | DATE: NOVEMBER 2021 | |
| ARCHITECT | | PLATFORM 5 DESIGN | | CONSULTANT | | ABN 67 115 216 496 49 FLORA ST ROSELANDS, NSW 2196 MOB: 0403 329 327 EMAIL: ckatsoulas@gmail.com | | MR. HANI BADRAN | | STORMWATER DETAIL PLAN | | DESIGNED: C.K. | | | | SCALE: AS SHOWN | |
| No. | | AMMENDMENT | | DATE | | No. | | AMMENDMENT | | DATE | | CHECKED: C.K. | | | | DATUM: AHD | |
| | | | | | | | | | | | | JOB & DRAWING No: | | 211676 | | No. IN SET: 2 OF 7 | |
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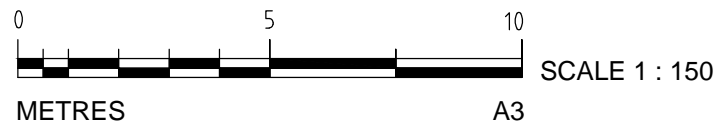
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BASEMENT PLAN
SCALE: 1:150



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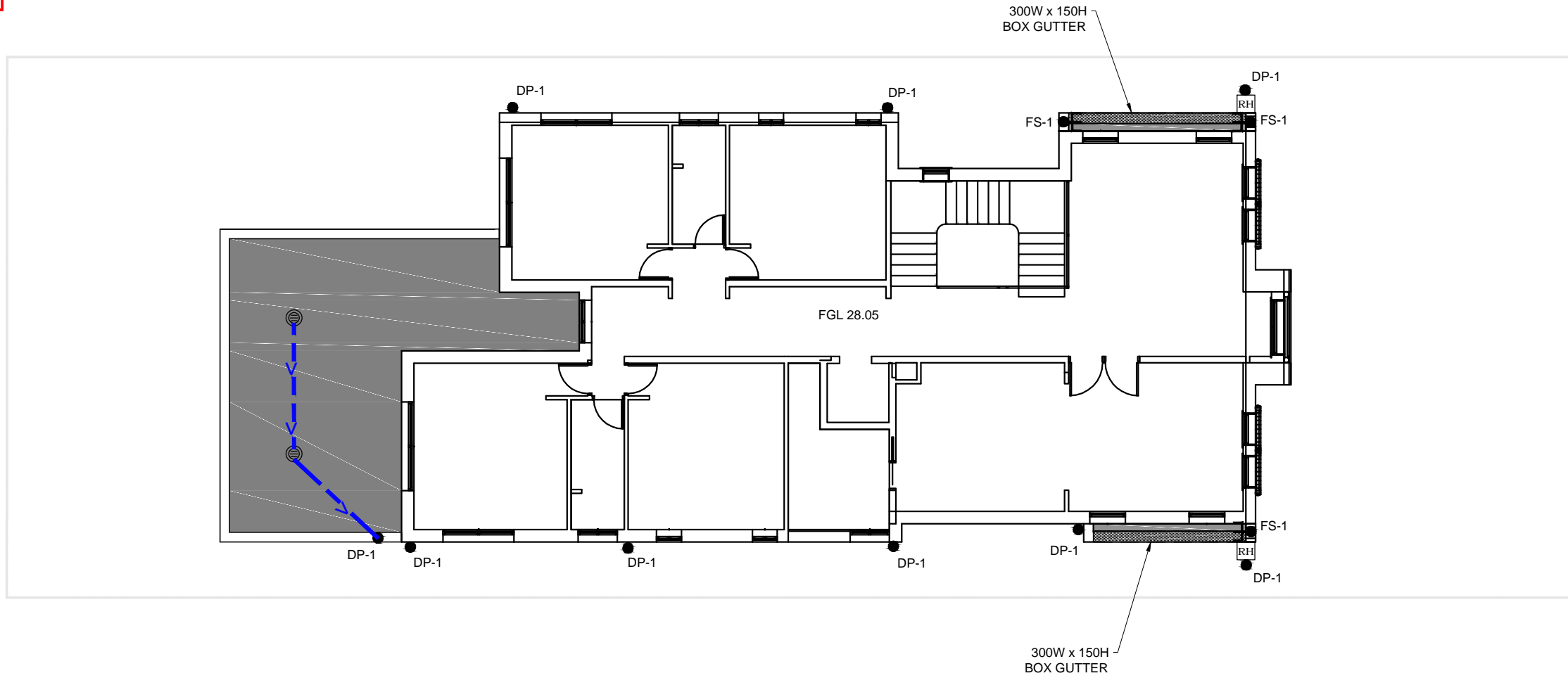
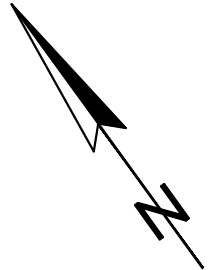


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| SURVEYOR - | 0 | DA ISSUE | 25/11/21 | | | C.K. ENGINEERING SERVICES ABN 67 115 216 496 49 FLORA ST ROSELANDS, NSW 2196 MOB: 0403 329 327 EMAIL: ckatsoulas@gmail.com | CLIENT: MR. HANI BADRAN | DRAWING TITLE: BASEMENT PLAN | DRAWN: M.P. | SIGNED: | DATE: NOVEMBER 2021 |
| ARCHITECT PLATFORM 5 DESIGN | | | | | | | PROJECT: 45 MEREDITH STREET, STRATHFIELD | | DESIGNED: C.K. | | SCALE: AS SHOWN |
| CONSULTANT - | No. | AMMENDMENT | DATE | No. | AMMENDMENT | | DATE | | CHECKED: C.K. | | DATUM: AHD |
| DO NOT SCALE | | | | | | | | | JOB & DRAWING No: 211676 | No. IN SET: 3 OF 7 | ISSUE: 0 |

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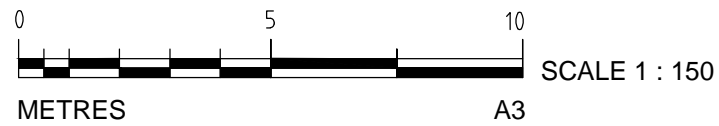
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FIRST FLOOR PLAN
SCALE: 1:150



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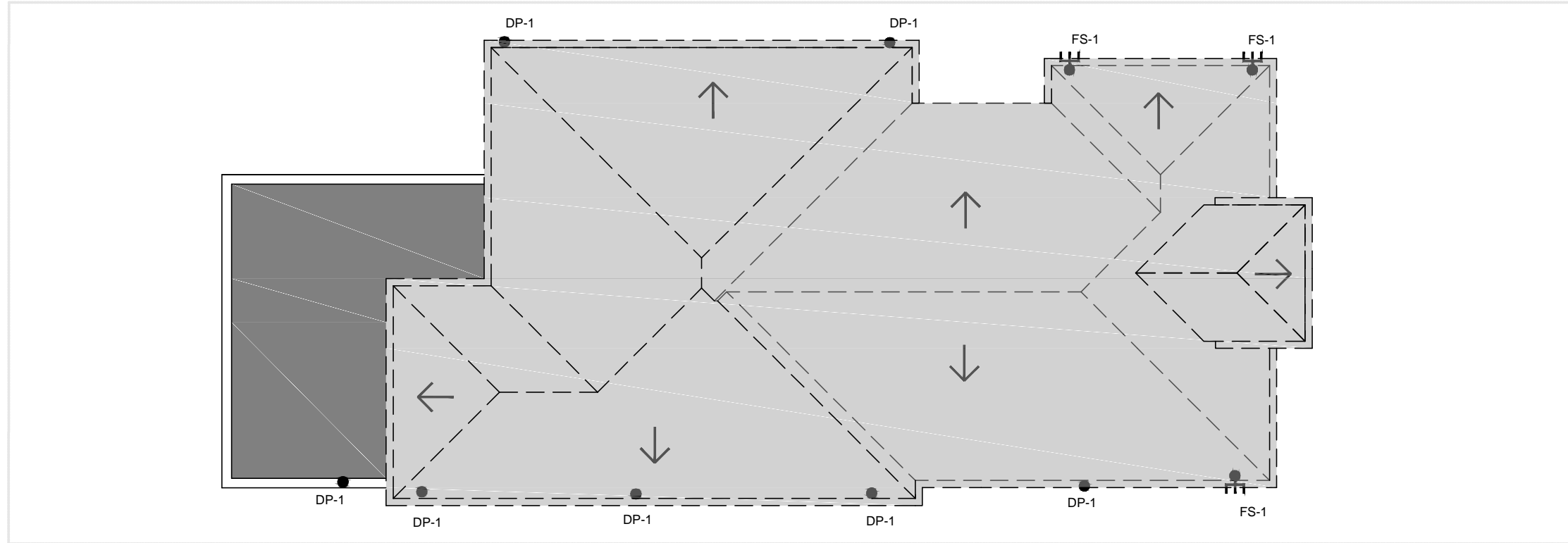
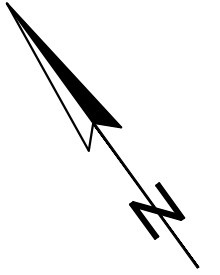


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| SURVEYOR - | 0 | DA ISSUE | 25/11/21 | | | | | C.K. ENGINEERING SERVICES ABN 67 115 216 496 49 FLORA ST ROSELANDS, NSW 2196 MOB: 0403 329 327 EMAIL: ckatsoulas@gmail.com | CLIENT: MR. HANI BADRAN PROJECT: 45 MEREDITH STREET, STRATHFIELD | DRAWING TITLE: FIRST FLOOR PLAN | DRAWN: M.P. DESIGNED: C.K. CHECKED: C.K. | SIGNED: | DATE: NOVEMBER 2021 SCALE: AS SHOWN DATUM: AHD |
| ARCHITECT PLATFORM 5 DESIGN | | | | | | | | | | | | | |
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ROOF PLAN
SCALE: 1:150



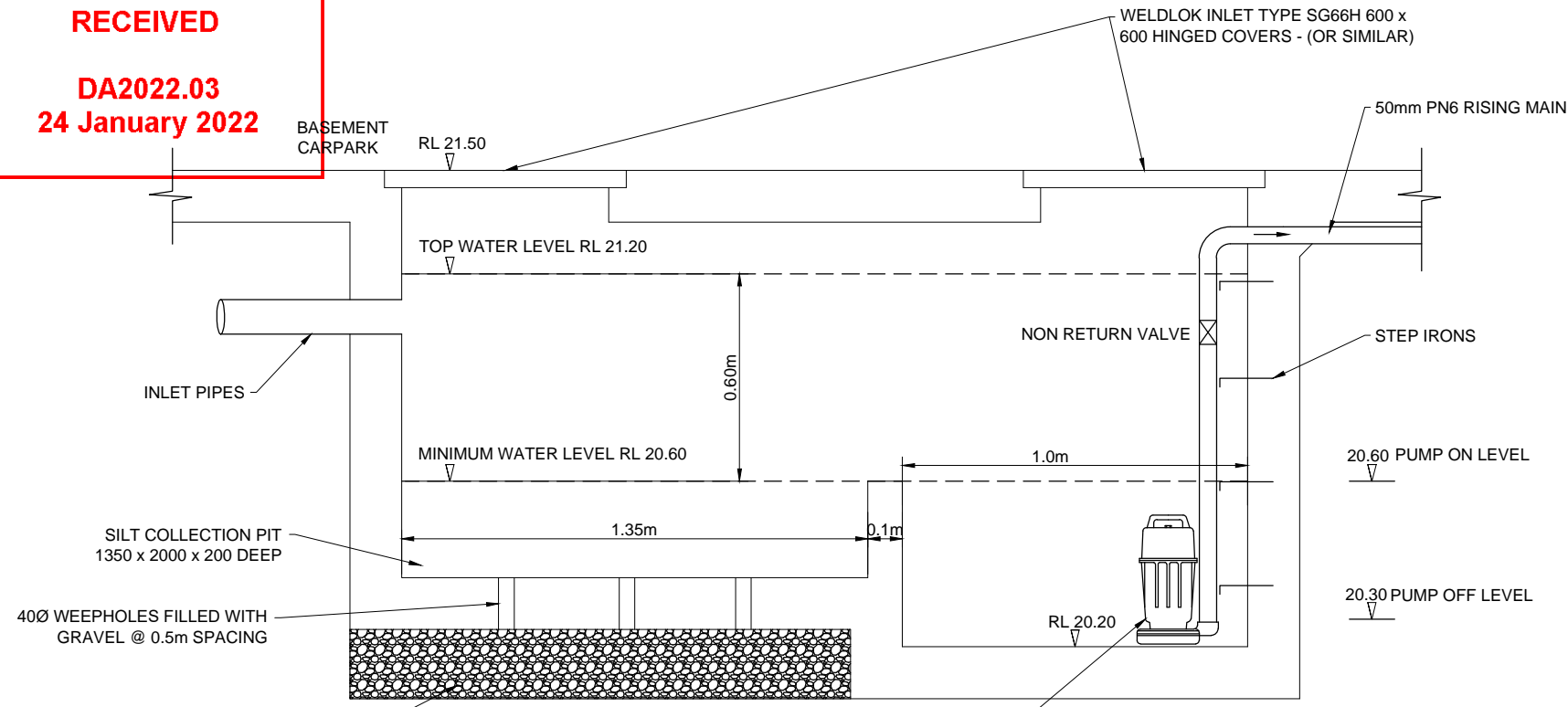
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BE (Civil), MIEAust, CPEng No. 449924

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| SURVEYOR - | 0 | DA ISSUE | 25/11/21 | | | C.K. ENGINEERING SERVICES ABN 67 115 216 496 49 FLORA ST ROSELANDS, NSW 2196 MOB: 0403 329 327 EMAIL: ckatsoulas@gmail.com | CLIENT: MR. HANI BADRAN PROJECT: 45 MEREDITH STREET, STRATHFIELD | DRAWING TITLE: ROOF PLAN | DRAWN: M.P. | SIGNED: | DATE: NOVEMBER 2021 | |
| | ARCHITECT PLATFORM 5 DESIGN | | | | | | | | DESIGNED: C.K. | | SCALE: AS SHOWN | |
| CONSULTANT - | No. | AMMENDMENT | DATE | No. | AMMENDMENT | DATE | | | CHECKED: C.K. | | DATUM: AHD | |
| DO NOT SCALE | | | | | | | | | JOB & DRAWING No: | 211676 | No. IN SET: 5 OF 7 | ISSUE: 0 |

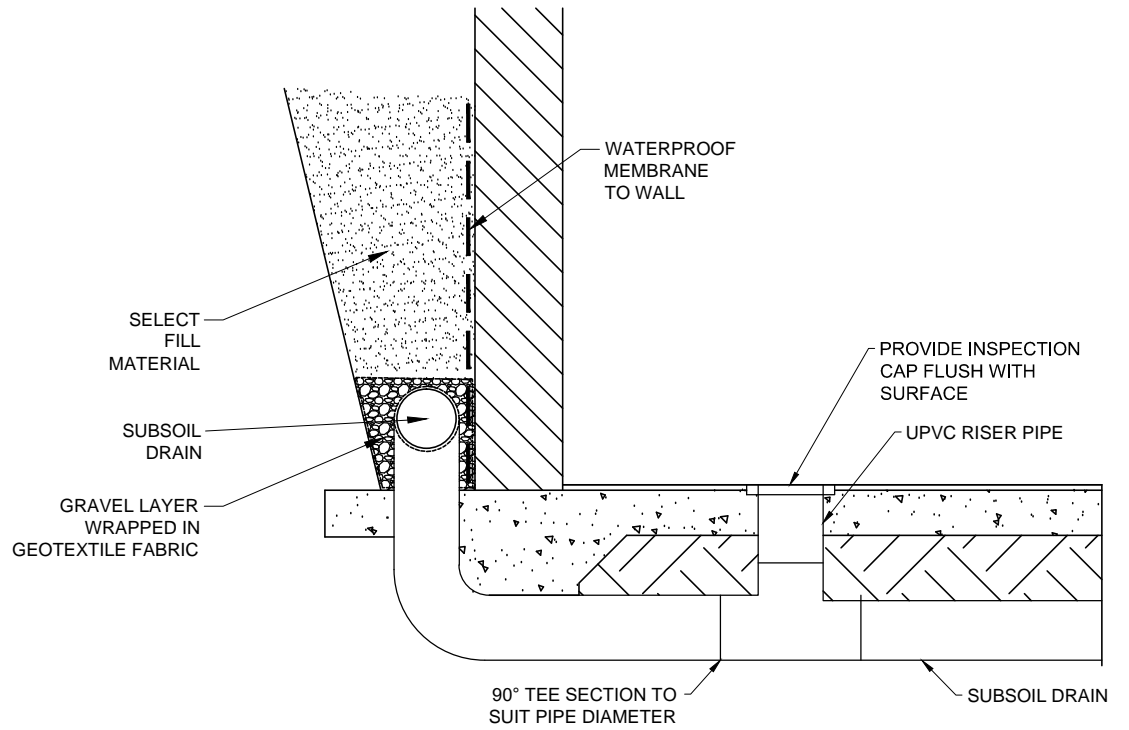
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TWO SUBMERSIBLE PUMPS TO MEET CLASS 1, ZONE 2 REQUIREMENTS OF AS 2430.3 - ULTRAFLOW UADN400/50/3 - DELIVERS 3.5 L/S @ 5.2m HEAD (APP) OR SIMILAR. SWITCHING TO PROVIDE FOR ALTERNATE PUMP OPERATION. ALARM SYSTEM TO BE PROVIDED FOR PUMP FAILURE. OWNERS TO ENTER INTO MAINTENANCE AGREEMENT.

PUMPOUT PIT SECTION DETAIL (A)
SCALE: 1:20



SUBSOIL DRAIN DETAIL (B)
SCALE: N.T.S.

| | | | |
|--------------------------------|--------------|-------------|----------------|
| Basement pump Catchment area | 65 m2 | | |
| 100 Yr 4Hr storm | 34.7 mm/hr | | |
| C100 | 1 | | |
| 100 Yr 5 min | 239.9 mm/hr | | |
| Q100-4hr | 34.7 L/h/m2 | 0.627 L/s | |
| Q100-5min | 239.9 L/h/m3 | 4.332 L/s | |
| Q100-5min-Vol | 1.299458 m3 | | |
| Effective Volume (4hr storm) | 9.02 m3 | | |
| Volume pumped in 30 min (PC30) | 6.30 m3 | | |
| Pump start volume (PC5) | 1.05 m3 | | |
| Design Wet Well Volume | 3.00 m3 | | |
| Design Flow | 3.5 L/s | 210.0 L/min | |
| Diameter | 50 mm | | |
| Hyd. Radius | 0.0125 m | | |
| Velocity | 1.8 m/s | | |
| Reynolds | 1066 | | |
| f-factor | 0.0390 | | |
| Velocity Head | 0.16 m | | |
| Length of Pipe | 10 m | | |
| # 90 deg bends | 4 No | k=1.15 | |
| # 60 deg bends | 0 No | k=0.50 | |
| # 45 deg bends | 1 No | k=0.25 | |
| # 30 deg bends | 0 No | k=0.10 | |
| T-junction/pit, exit loss | 1 No | k=1.00 | |
| Reflux valve/Tank loss | 0 No | k=2.00 | (reflux valve) |
| height | 3 m | | |
| Head Loss(hf) | 5.2 m | | |

PUMP-OUT CALCULATIONS

DESIGN FOR 100YR 4 HOUR STORM - I100 = 34.7mm/hr

CONTRIBUTING AREA = 65 m2
ARI = 100 years
DURATION = 4 hours
CO-EFFICIENT OF RUNOFF C = 1.0
PEAK DISCHARGE Q = C x I = 1.0 x 34.7
PEAK DISCHARGE Q = 34.7 L/h/m2

| | | |
|---|--------------------------|--------------------------|
| VOLUME FOR 4 hr STORM = Q x T x A = 34.7/1000 x 4 x 65 = 9 m3 | | |
| PUMP CAPACITY | VOLUME PUMPED IN 30 mins | WET WELL VOLUME REQUIRED |
| 3.5 L/s | 6.3m3 | 2.7m3 |
| WET WELL VOLUME PROVIDED | | 3 m3 |



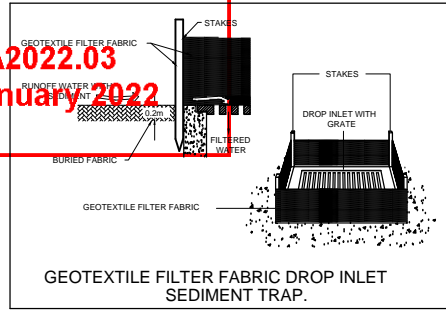
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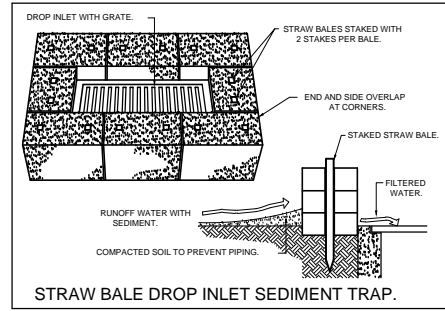
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| SURVEYOR | 0 | DA ISSUE | 25/11/21 | | | C.K. ENGINEERING SERVICES | CLIENT: | DRAWING TITLE: | DRAWN: M.P. | SIGNED: | DATE: NOVEMBER 2021 |
| ARCHITECT | | | | | | ABN 67 115 216 496 | MR. HANI BADRAN | PUMP-OUT TANK DETAILS | DESIGNED: C.K. | | SCALE: AS SHOWN |
| PLATFORM 5 DESIGN | | | | | | 49 FLORA ST | PROJECT: | | CHECKED: C.K. | | DATUM: AHD |
| CONSULTANT | No. | AMMENDMENT | DATE | No. | AMMENDMENT | DATE | 45 MEREDITH STREET, STRATHFIELD | | | | No. IN SET: 6 OF 7 |
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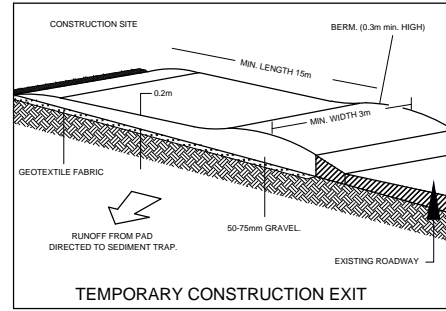
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24 January 2022**



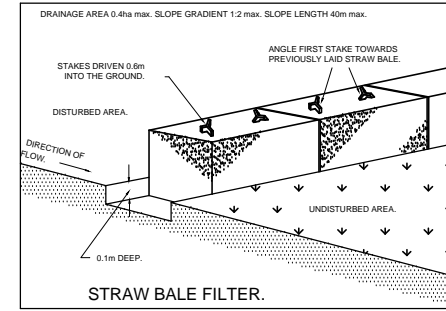
DETAIL 1



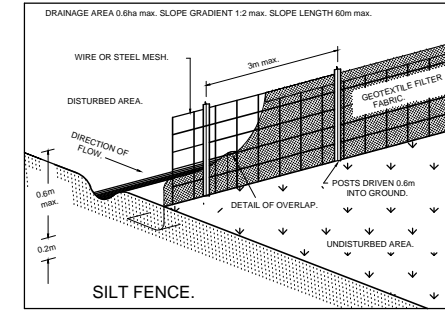
DETAIL 2



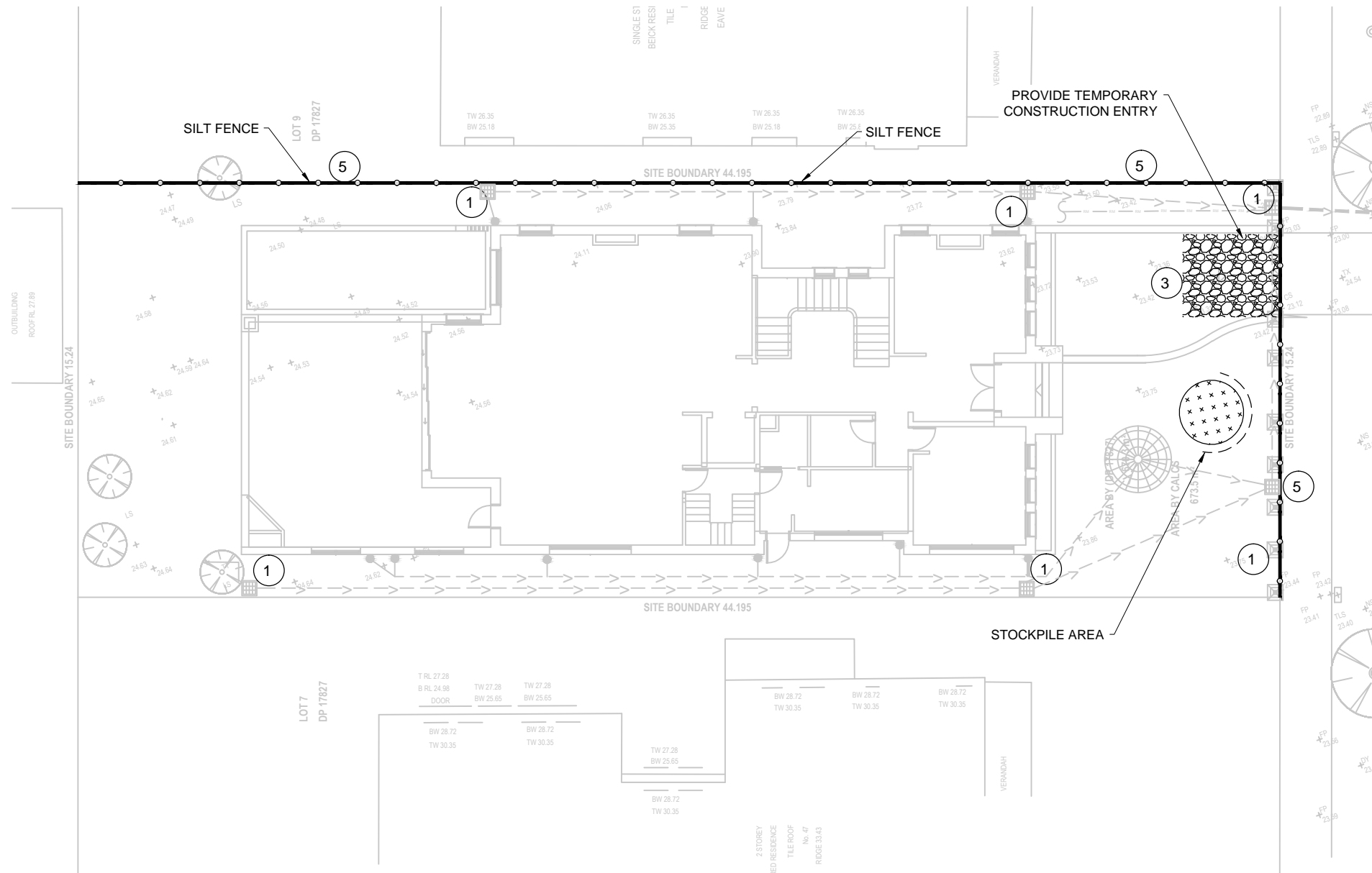
DETAIL 3



DETAIL 4



DETAIL 5



EROSION CONTROL NOTES:

1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S STANDARD SPECIFICATIONS AND TO THE SATISFACTION OF COUNCIL'S ENGINEER.
2. EROSION AND SEDIMENTATION CONTROLS SHALL BE CONSTRUCTED AS SHOWN ON SHEET 2 AND 3 OF THIS PLAN AND/OR WHERE DIRECTED BY COUNCIL'S ENGINEER.
3. SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE IMPLEMENTED PRIOR TO OR IN CONJUNCTION WITH THE FIRST PHASE OF EARTHWORKS AND SHALL BE REMOVED ONLY WHEN THE AREAS ABOVE IT HAVE BEEN STABILISED. EACH SEDIMENTATION AND EROSION CONTROL DEVICE SHALL BE INSPECTED AFTER EACH STORM FOR STRUCTURAL DAMAGE OR CLOGGING BY SILT AND OTHER DEBRIS AND PROMPTLY DESILTED, REPAIRED OR REPLACED IF REQUIRED.
4. TOPSOIL STOCKPILES SHALL BE LOCATED OUTSIDE HAZARD AREAS SUCH AS DRAINAGE DEPRESSIONS.
5. ALL AREAS NOT SUBJECT TO CONSTRUCTION WORKS SHALL BE RETAINED FREE FROM DISTURBANCE OR DAMAGE FOR THE DURATION OF THE WORKS.
6. TREES TO BE RETAINED SHALL BE PROTECTED DURING SITE WORKS AND CONSTRUCTION BY THE ERECTION OF SOLID BARRICADES AT THE DRIP LINE OR AS SPECIFIED BY COUNCIL'S ENGINEER.
7. THE DEVELOPER OR CONTRACTOR WILL TAKE ALL MEASURES TO PREVENT DAMAGE TO TREES AND ROOT SYSTEMS DURING SITE WORKS AND CONSTRUCTION ACTIVITIES INCLUDING THE PROVISION OF WATER, SEWERAGE AND STORMWATER DRAINAGE SERVICES. IN PARTICULAR, WORKS, ERECTION OF STRUCTURES, EXCAVATION OR CHANGES TO SOIL LEVELS WITHIN 4 METRES OF THE TRUNKS OF TREES TO BE RETAINED ARE NOT PERMITTED UNLESS PART OF THE DEVELOPMENT AS APPROVED, AND THE STORAGE OF SPOIL, BUILDING MATERIALS, SOILS OR THE DRIVING OR PARKING OF ANY VEHICLE OR MACHINERY WITHIN 4 METRES OF THE TRUNK OF A TREE TO BE RETAINED, IS NOT PERMITTED.
8. WETTING OF THE SITE SHOULD BE CARRIED OUT AS OFTEN AS NECESSARY AS A FORM OF DUST CONTROL.
9. SILT FENCES TO BE CONSTRUCTED WHERE EVER NATURAL SURFACE SLOPES AWAY FROM DISTURBED AREAS OR WHERE DIRECTED BY THE ENGINEER.

EROSION PLAN
SCALE: 1:200

FOR DA APPROVAL



Con Katsoulas
BE (Civil), MIEAust, CPEng No. 449924

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| ARCHITECT | | | | | | ABN 67 115 216 496 | MR. HANI BADRAN | EROSION AND SEDIMENT CONTROL PLAN | DESIGNED: C.K. | | SCALE: AS SHOWN |
| PLATFORM 5 DESIGN | | | | | | 49 FLORA ST | PROJECT: | | CHECKED: C.K. | | DATUM: AHD |
| CONSULTANT | No. | AMMENDMENT | DATE | No. | AMMENDMENT | DATE | 45 MEREDITH STREET, STRATHFIELD | | | | No. IN SET: 7 OF 7 |
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