

STORMWATER MANAGEMENT PLAN

LOT 4 ORCHARD STREET WARRIEWOOD



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

NOTES:

- 1. ALL PROPOSED PITS TO BE 450 x 450 CAST IN-SITU OR PRECAST PITS UNLESS SHOWN OTHERWISE.
- 2. ALL CHARGED LINE PIPES TO BE 100Ø uPVC SEWER CLASS UNLESS SHOWN OTHERWISE
- 3. ALL DOWNPIPES TO BE 90Ø uPVC OR 100 x 50 UNLESS OTHERWISE SHOWN
- 4. ALL NON-PRESSURE STORMWATER PIPES TO BE 100Ø uPVC UNLESS SHOWN OTHERWISE
- 5. ALL GRATED DRAINS TO BE MINIMUM 150 WIDE GALVANIZED HEAVY DUTY GRATES.
- 6. ALL NON-TRAFFICABLE PITS TO BE LIGHT DUTY. PITS IN TRAFFICABLE AREAS TO BE HEAVY DUTY.
- 7. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCILS SPECIFICATIONS.
- 8. ALL PITS GREATER THAN 1.2m DEPTH SHALL INCLUDE STEP IRONS AND HAVE MINIMUM CLEAR DIMENSIONS OF 600 x 600.
- 9. ALL PITS ARE TO BE BENCHED TO ALLOW SMOOTH FLOW OF WATER THROUGH PITS
- 10. ALL DOWNPIPES SHALL CONFORM TO AS/NZS 1866 FOR ALUMINIUM PIPES AND AS 1254, AS/NZS 1260, AS 1273, AS/NZS 1477, AS/NZS 2179.2 AND AS 2032 FOR uPVC PIPES.
- 11. ALL BOX GUTTERS SHALL COMPLY WITH AS/NZS 2179.1
- 12. ALL BOX GUTTERS SHALL BE CONSTRUCTED WITH A MINIMUM 1:200 GRADE TO SUMP/DOWNPIPES
- 13. ALL DRAINAGE WORKS SHALL BE IN ACCORDANCE WITH AS 3500.3.2

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LEGEND

FLOWPATH

FLOOR WASTE

FLOW SPREADER AND DOWNPIPE TYPE 1

PROPOSED GRATED PIT

PROPOSED SEALED WATER TIGHT PIT

RAINHEAD

SUMP OVERFLOW

PROPOSED STORMWATER PIPE - GRAVITY

PROPOSED V-DRAIN

PROPOSED STORMWATER PIPE - CHARGED

PROPOSED RISING MAIN (PRESSURE PIPE)

PROPOSED SUBSOIL DRAIN

PROPOSED BUILDING

PROPOSED CONTOURS

PROPOSED BASEMENT CHANNEL

NEW DOWNPIPE - 100Ø

EXISTING DOWNPIPE - 100Ø

PIT/PIPE INVERT LEVEL

TOP OF KERB LEVEL

GRATED DRAIN

EXISTING SURFACE LEVEL

PROPOSED SURFACE LEVEL

SEALED INSPECTION OPENING

HIP ROOF

FLAT ROOF

TERRACE/BALCONY

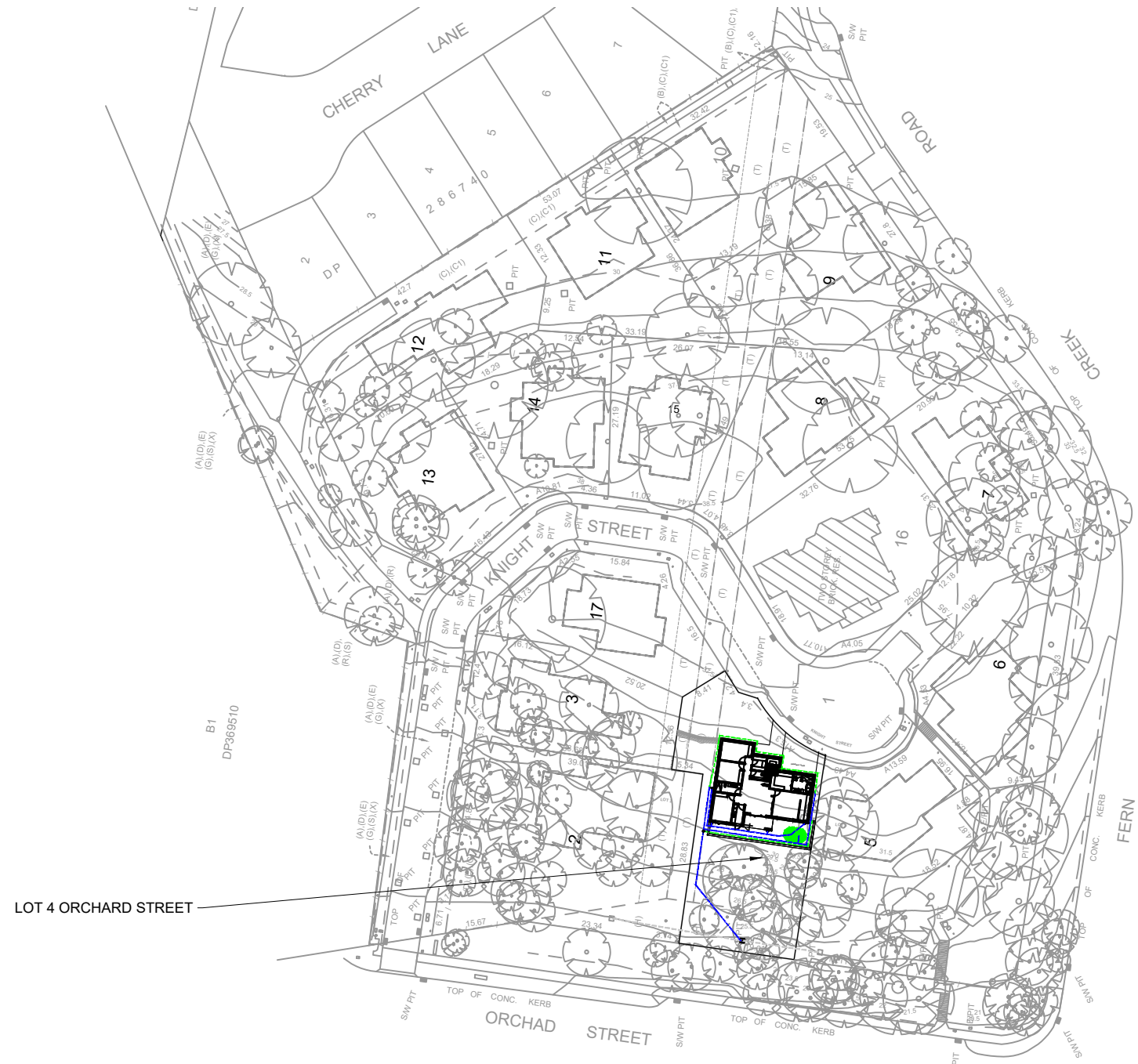
BASIX ROOF AREA DRAINING TO RAINWATER TANK

AREA BYPASSING ON-SITE DETENTION TANK

DOWNPIPE TYPE	CROSS SECTION AREA MIN. (mm2)	DOWNPIPE SIZES	
		ROUND	RECTANGULAR
1	8600	90Ø	100 X 50
2	11000	100Ø	100 X 75
3	12900	125Ø	100 X 75
4	17100	125Ø	100 X 100
5	21500	150Ø	125 X 100
6	24700	150Ø	150 X 150

FOR DA APPROVAL

SURVEYOR YSCO GEOMATICS	0	DA ISSUE	08/04/24				C.K. ENGINEERING SERVICES ABN 67 115 216 496 49 FLORA ST ROSELANDS, NSW 2196 MOB: 0403 329 327 EMAIL: ckatsoulas@gmail.com	CLIENT: POPOVBASS	DRAWING TITLE: INDEX	DRAWN: S.C. DESIGNED: C.K. CHECKED: C.K.	SIGNED:	DATE: APRIL 2024 SCALE: AS SHOWN DATUM: AHD
ARCHITECT POPOVBASS								PROJECT: LOT 4 ORCHARD STREET WARRIEWOOD				
CONSULTANT -	No.	AMMENDMENT	DATE	No.	AMMENDMENT	DATE				JOB & DRAWING No: 222022-L4	No. IN SET: 1 OF 7	ISSUE: 0
DO NOT SCALE												



SITE PLAN
SCALE: 1:1000



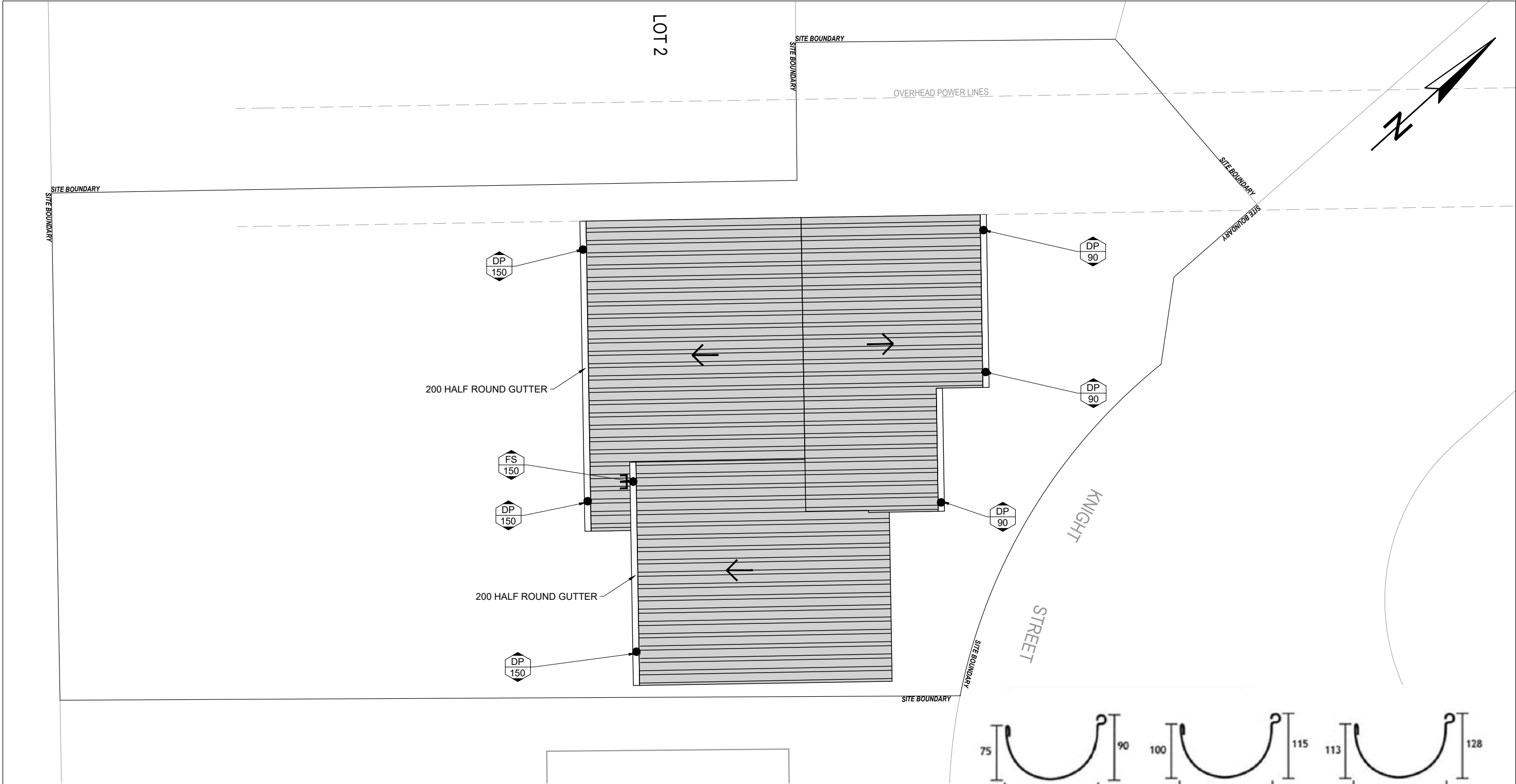
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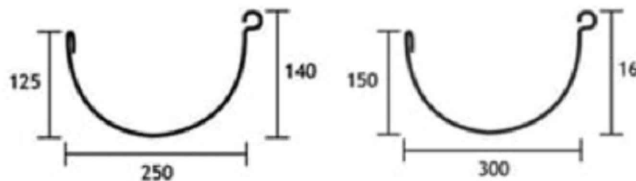
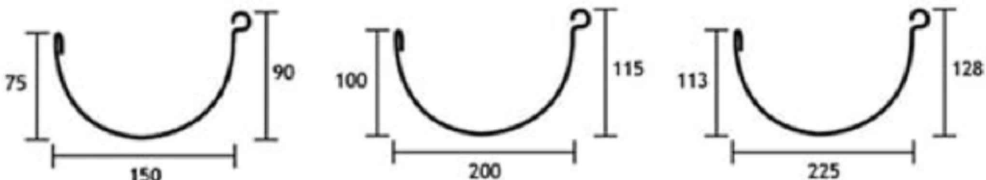


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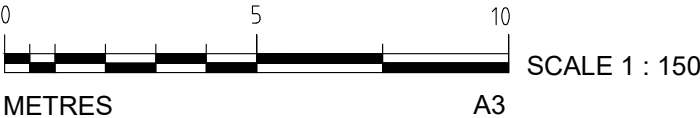
ROOF PLAN
SCALE: 1:150



HALF ROUND GUTTER DIMENSIONS

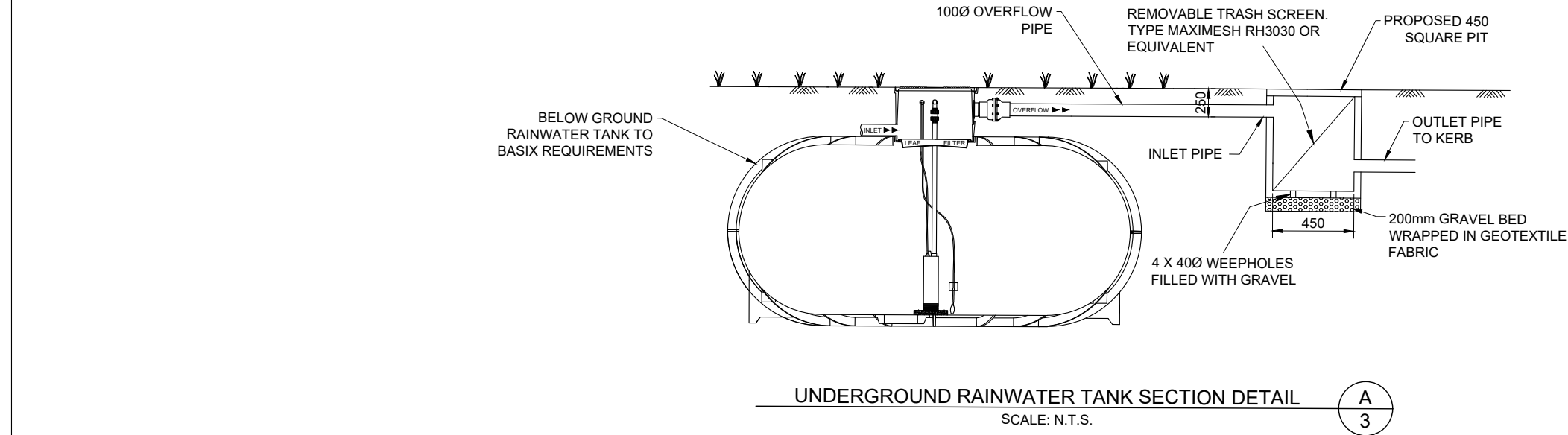


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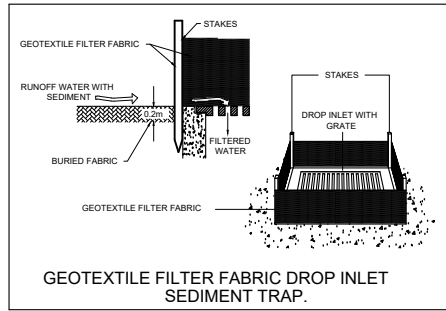
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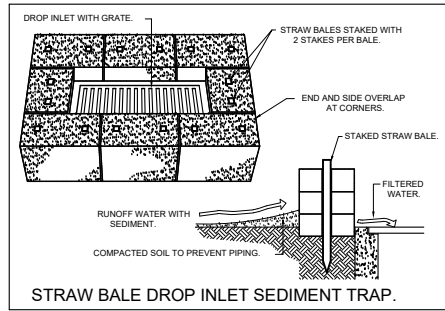
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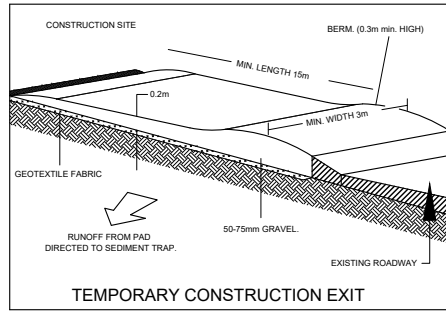
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YSO GEOMATICS							ABN 67 115 216 496	POPOVBASS	RAINWATER TANK DETAILS	DESIGNED: C.K.		SCALE: AS SHOWN
ARCHITECT							49 FLORA ST	PROJECT:		CHECKED: C.K.		DATUM: AHD
POPOVBASS							ROSELANDS, NSW 2196	LOT 4 ORCHARD STREET WARRIEWOOD				No. IN SET: 6 OF 7
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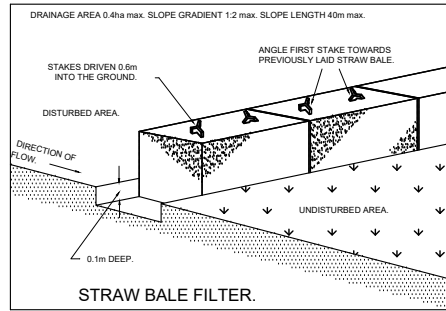
DETAIL 1



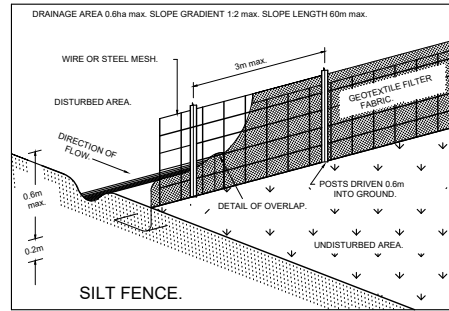
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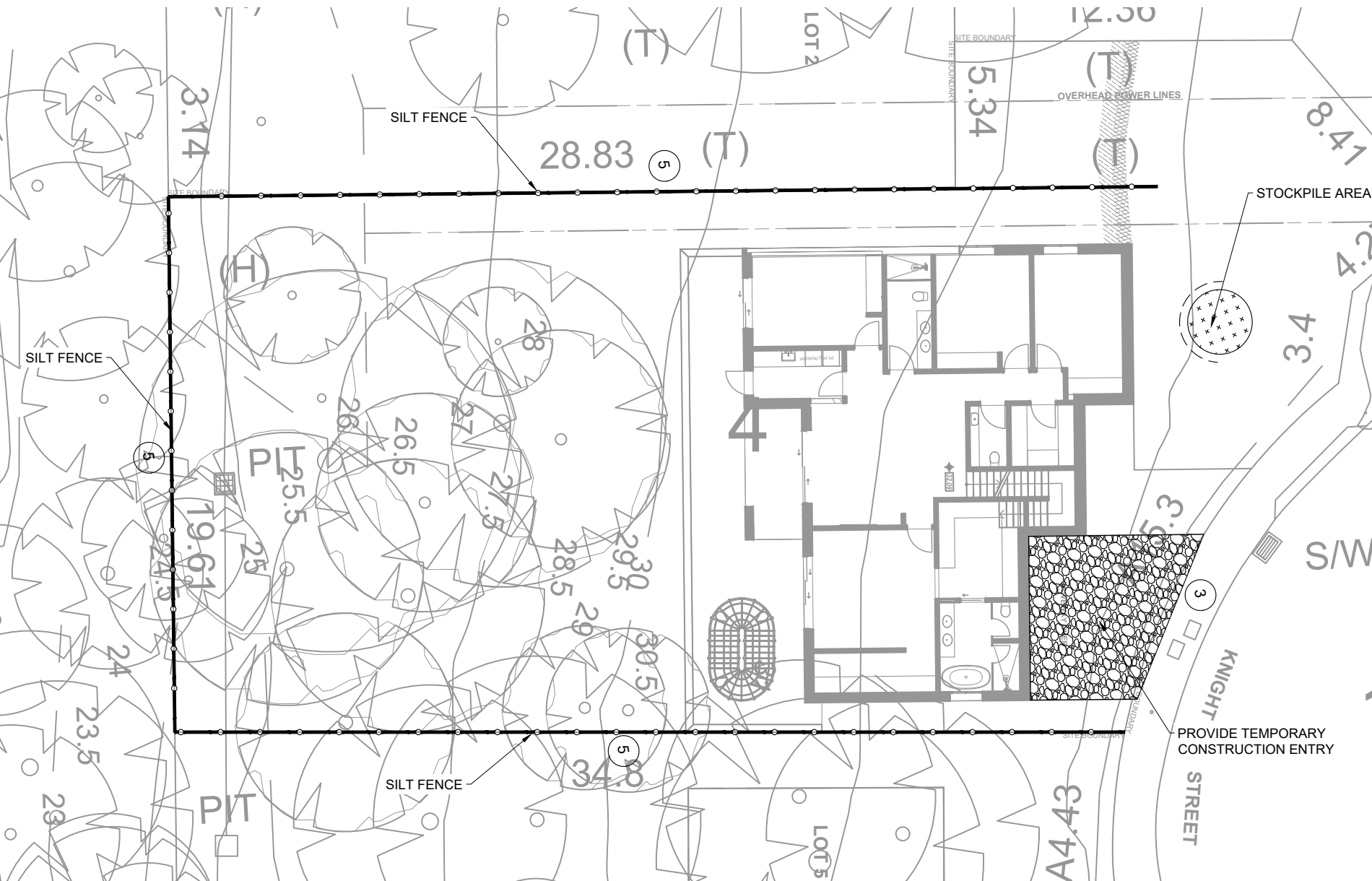
DETAIL 3



DETAIL 4



DETAIL 5



EROSION CONTROL NOTES:

- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S STANDARD SPECIFICATIONS AND TO THE SATISFACTION OF COUNCIL'S ENGINEER.
- 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.
- 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.
- TOPSOIL STOCKPILES SHALL BE LOCATED OUTSIDE HAZARD AREAS SUCH AS DRAINAGE DEPRESSIONS.
- ALL AREAS NOT SUBJECT TO CONSTRUCTION WORKS SHALL BE RETAINED FREE FROM DISTURBANCE OR DAMAGE FOR THE DURATION OF THE WORKS.
- 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.
- 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.
- WETTING OF THE SITE SHOULD BE CARRIED OUT AS OFTEN AS NECESSARY AS A FORM OF DUST CONTROL.
- SILT FENCES TO BE CONSTRUCTED WHERE EVER NATURAL SURFACE SLOPES AWAY FROM DISTURBED AREAS OR WHERE DIRECTED BY THE ENGINEER.

EROSION AND SEDIMENT CONTROL PLAN
SCALE: 1:200

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National Engineering Register
ENGINEERS AUSTRALIA
Con Katsoulas
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