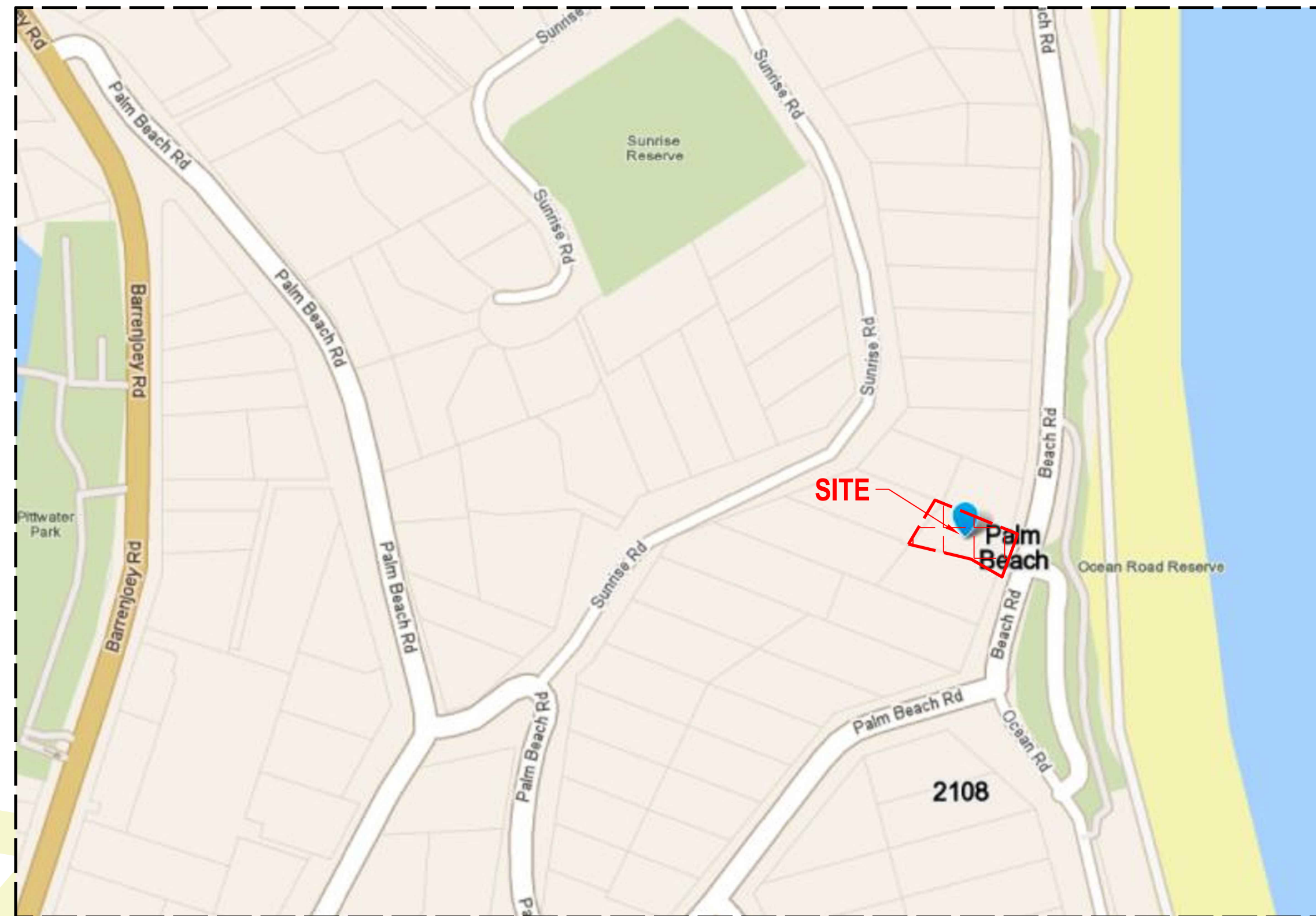


PROPOSED RESIDENTIAL DEVELOPMENT 14 OCEAN ROAD PALM BEACH PRELIMINARY ISSUE

CIVIL SERVICES



LOCALITY PLAN

DRAWING SCHEDULE		
DRAWING NUMBER	DRAWING TITLE	DRAWING SCALE
C-0000	Cover Sheet	N.T.S
C-0001	General Notes And Legend	N.T.S
C-1001	Erosion and Sediment Control Plan	1:100
C-1011	Erosion and Sediment Control Detail and Notes	As Noted
C-4001	Stormwater Management Plan	1:100
C-4101	Stormwater Catchment Plan	1:100
C-4301	Stormwater Management Detail Sheet 1 of 2	As Noted
C-4302	Stormwater Management Detail Sheet 2 of 2	As Noted

PRELIMINARY ISSUE

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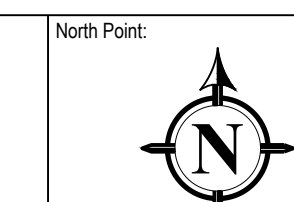
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Issue	Date	Amendment	Int.	App.	COORDINATED REFERENCE DRAWINGS	ISSUE	DATE
01	21/10/2021	PRELIMINARY ISSUE	S.S	A.A	SERVICE		
02	22/10/2021	REVISED ARCHITECTURAL PLANS	S.S	A.A	ARCH		
					MECH		
					STRUCT		
					ELEC		
					CIVIL		

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Project:
PROPOSED RESIDENTIAL DEVELOPMENT
14 OCEAN ROAD
PALM BEACH

Drawing Title:
COVER SHEET



Job No: P649645

Dwg No: C0000

Scale: N.T.S (A1)

Issue: 02

NOTE: SYMBOLS ARE DRAWN IN THE CORRECT POSITION BUT ARE NOT SHOWN TO SCALE.

CIVIL SERVICES

GENERAL NOTES

- REFER TO NORTHERN BEACHES COUNCIL DEVELOPMENT GUIDELINES FOR STANDARD DETAILS AND ENGINEERING SPECIFICATION. ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THIS CODE UNO.
- N1. ALL DIMENSIONS ARE IN MILLIMETRES AND ALL LEVELS IN m AHD UNO.
 - N2. NO DIMENSIONS ARE TO BE OBTAINED BY SCALING FROM DRAWINGS.
 - N3. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS.
 - N4. IN PREPARING THESE DRAWINGS WE HAVE RELIED ON THE ACCURACY AND COMPLETENESS OF INFORMATION PROVIDED BY THE UTILITY PROVIDERS AND SURVEYORS REGARDING ONSITE LOCATION OF ASSETS. WE ACCEPT NO LIABILITY FOR ANY ERROR OR OMISSION IN THESE DRAWINGS TO THE EXTENT THE SAME RESULTS FROM ERROR OR OMISSION IN THE INFORMATION PROVIDED.
 - N5. ANY DISCREPANCIES OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE SUPERINTENDENT PRIOR TO COMMENCING WITH THE WORKS.
 - N6. THE CONTRACTOR SHALL OBTAIN ALL LEVELS FROM ESTABLISHED BENCH MARKS ONLY AS SUPPLIED BY A REGISTERED SURVEYOR.
 - N7. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS, EXISTING LEVELS AND PROPOSED SET-OUT ON SITE PRIOR TO THE COMMENCEMENT OF WORKS. ANY DISCREPANCIES OR OMISSIONS ARE TO BE REPORTED TO THE SUPERINTENDENT.
 - N8. THE SUPERINTENDENT IS TO BE GIVEN 48 HOURS NOTICE OF ANY INSPECTION REQUESTS.
 - N9. ALL EXISTING STRUCTURES, SERVICES AND UTILITIES ARE TO BE LOCATED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS. THE LOCATION OF EXISTING SERVICES SHOWN ON PLANS ARE INDICATIVE ONLY AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT. THE RESPONSIBILITY FOR LOCATING, AVOIDANCE AND WHERE NECESSARY, TEMPORARY PROTECTION OF THESE EXISTING SERVICES IS THAT OF THE CONTRACTOR. ANY DAMAGE TO EXISTING STRUCTURES, SERVICES AND UTILITIES IS TO BE REPORTED TO THE SUPERINTENDENT IMMEDIATELY.
 - N10. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND CODES OF PRACTICE EXCEPT WHERE VARIED BY THE DRAWINGS. THE APPLICABLE STANDARDS SHALL BE THE REFERENCED STANDARDS CURRENT AT DATE OF DRAWING ISSUE.
 - N11. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED OUT BY OTHERS, (e.g. ADJUSTMENT OF SERVICES) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF ANY THIRD PARTY WORKS.
 - N12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE WORKS AND SURROUNDING AREA UNTIL PROJECT COMPLETION AND SHALL ENSURE THAT NO PART OF THE WORKS ARE OVERSTRESSED BY CONSTRUCTION LOADING.
 - N13. ALL TESTING IS TO BE CARRIED OUT BY A NATA REGISTERED LABORATORY. TESTING METHODS ARE TO BE IN ACCORDANCE WITH THE APPLICABLE AUSTRALIAN STANDARD.
 - N14. ON COMPLETION OF THE WORKS THE CONTRACTOR SHALL PROVIDE AN AS-CONSTRUCTED SURVEY OF THE SITE.
 - N15. WHERE PROPRIETARY PRODUCTS ARE SPECIFIED ON THE DRAWING, THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE PRODUCT TO THE SUPERINTENDENT FOR APPROVAL. THE CONTRACTOR SHALL PROVIDE SUFFICIENT INFORMATION TO DEMONSTRATE TO THE SUPERINTENDENT'S SATISFACTION THAT THE ALTERNATIVE PROPOSED IS OF EQUIVALENT QUALITY TO THE PRODUCT SPECIFIED.
 - N16. EXISTING SERVICES SURVEY AND TOPOGRAPHY SURVEY ARE SHOWN AS PER SITE SURVEY COMPLETED BY C.M.S SURVEYORS PTY LTD (202230DETAIL DATED 15 APRIL 2021). LOCATIONS ARE INDICATIVE ONLY AND MAY NOT BE EXHAUSTIVE. PRESENCE AND LOCATIONS OF SERVICES TO BE CONFIRMED BY CONTRACTOR PRIOR TO CONSTRUCTION.

ROADWORKS GENERAL

- G1. THE SUB-CONTRACTOR SHALL OBTAIN ALL LEVELS FROM ESTABLISHED BENCH MARKS ONLY AS SUPPLIED BY THE APPOINTED SURVEYORS.
- G2. SERVICES SHOWN ON THESE PLANS ARE LOCATED FROM INFORMATION SUPPLIED BY THE RELEVANT AUTHORITIES AND FIELD INVESTIGATIONS AND ARE NOT GUARANTEED COMPLETE OR CORRECT. ALL SERVICE LOCATIONS ARE TO BE VERIFIED BY THE SUB-CONTRACTOR PRIOR TO CONSTRUCTION.
- G3. ALL REMOVING, DIVERSION AND PROTECTION WORKS RELATED TO EXISTING SERVICES NEED TO BE VERIFIED AND APPROVED BY RELATIVE AUTHORITIES.
- G4. NO WORK TO BE CARRIED OUT ON ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER.
- G5. VEHICULAR ACCESS AND ALL SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO AREAS AFFECTED BY CONSTRUCTION UNLESS OTHERWISE AGREED.

PAVEMENT GENERAL

- P1. SUBGRADE, SUBBASE AND BASE COURSES ARE TO BE COMPACTED TO THE REQUIREMENTS OF THE SPECIFICATION AND SHALL BE REVIEWED BY THE GEOTECHNICAL INSPECTION AND TESTING AUTHORITY.
- P2. TRANSITION KERB FROM KO TO K&G AT KERB RETURN T.P OVER A LENGTH OF 1m.
- P3. ALL EXISTING STRUCTURES, SERVICES AND UTILITIES ARE TO BE LOCATED BY THE SUB-CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS. THE LOCATION OF EXISTING SERVICES SHOWN ON PLANS ARE INDICATIVE ONLY AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT. THE RESPONSIBILITY FOR LOCATING, AVOIDANCE AND WHERE NECESSARY, TEMPORARY PROTECTION OF THESE EXISTING SERVICES IS THAT OF THE SUB-CONTRACTOR. ANY DAMAGE TO EXISTING STRUCTURES, SERVICES AND UTILITIES IS TO BE REPORTED TO THE SUPERINTENDENT IMMEDIATELY.

DRAINAGE NOTES

- D1. ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY SUPPORTED.
- D2. 100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE.
- D3. MINIMUM DEPTH OF COVER FOR PIPES NOT SUBJECT TO VEHICULAR LOADING TO BE 300mm.
- D4. ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS.
- D5. BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE MATERIAL.
- D6. HEAVY DUTY GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS.
- D7. PIT GRATE TO BE TYPE WELDOCK OR APPROVED EQUIVALENT.
- D8. ALL PITS SHALL BE PROVIDED WITH LOCKING CLIP.
- D9. ALL PITS SHALL BE MAINTAINED REGULARLY.
- D10. TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE DIAMETER.
- D11. Ø100mm SUBSOIL DRAINAGE PIPE 3000mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PITS.
- D12. COMPRESSIVE STRENGTH f_c FOR CAST INSITU CONCRETE TO BE MINIMUM OF 20MPa AT 28 DAYS.
- D13. PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS.
- D14. ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS.
- D15. ALL TRENCH GRATES PROVIDED SHALL HAVE A MINIMUM CLEAR WIDTH OF 200mm.
- D16. STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL.

DEMOLITION

1. ALL DEMOLITION WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH REQUIREMENTS OF AUSTRALIAN STANDARDS AS2601 - 1991 "THE DEMOLITION OF STRUCTURES".
2. HAZARDOUS MATERIALS (INCLUDING ASBESTOS) ARE TO BE HANDLED, STORED, TREATED, TRANSPORTED AND DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF THE WORK HEALTH & SAFETY ACT 2011 AND ANY RELEVANT REQUIREMENTS OF THE WORK COVER AUTHORITY OF NSW.

LEGEND

EXISTING FEATURES

	SUBJECT BOUNDARY
	EASEMENT BOUNDARY
	FENCE
	APPROX. LOCATION OVERHEAD POWER SUPPLY
	APPROX. LOCATION UNDERGROUND POWER SUPPLY
	APPROX. LOCATION UNDERGROUND WATER MAINS
	APPROX. LOCATION UNDERGROUND SEWER MAINS
	APPROX. LOCATION UNDERGROUND TELECOMMUNICATIONS LINE
	APPROX. LOCATION UNDERGROUND NBN LINE
	APPROX. LOCATION UNDERGROUND GAS MAINS
	STORMWATER PIPE
	TOP OF KERB
	LIP OF KERB
	EDGE OF FOOTPATH
	EDGE OF DRIVEWAY
	CROWN OF ROAD FORMATION
	EDGE OF BITUMEN
	EDGE OF CONCRETE
	TOP OF BANK
	BOTTOM OF BANK
	LINE MARK
	GUARDRAIL
	POWER POLE
	POWER BOX
	HYDRANT
	WATER METER
	TELECOMMUNICATIONS PIT
	KERB INLET STORMWATER PIT
	PHOTO ASPECT
	GUTTER LEVEL
	RIDGE LEVEL
	TREE

LEGEND

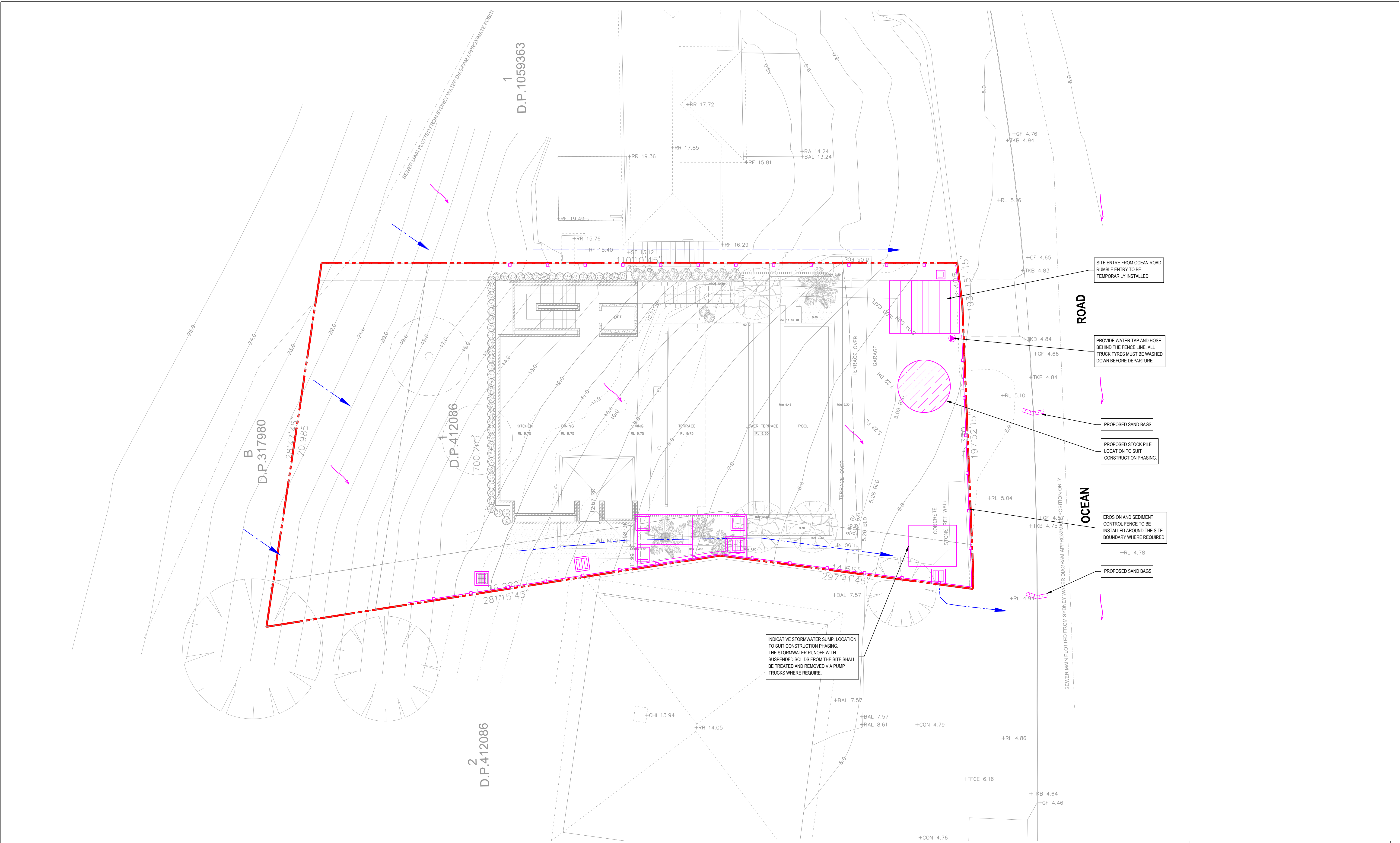
PROPOSED FEATURES

	BOUNDARY - SITE
	BOUNDARY - EXISTING
	CASTIN
	CONTOUR - MAJOR
	CONTOUR - MINOR
	DISCONNECTED SERVICE
	FIRE SERVICE
	GAS SERVICE
	GROUND PLANE BOUNDARY
	INSET BORDER
	PLANT LINE
	PROJECT WORKS EXTENTS
	SEWER
	SILT FENCE
	STORMWATER DRAINAGE
	STORMWATER RISING MAIN
	SUBSOIL DRAINAGE
	TREE
	WATER
	OVERFLOW PIPE
	SWALE DRAIN
	STEEL POST FENCE
	AG PIPE
	STABILIZED SITE ACCESS
	STOCK PILE
	SANDBAGS
	PROPOSED TRENCH DRAIN
	KERB INLET PIT
	STORMWATER PIT - GRATED
	STORMWATER PIT - COVER
	OVERLAND FLOW ARROW
	MESH & GRAVEL INLET FILTER
	TILTING FLOOD GATE
	WATERTAP AND HOSE
	WATERMAIN PATHBOX
	GAS PATHBOX
	SEWER MANHOLE
	RAINWATER TANK
	AC ROAD PAVEMENT
	VEHICULAR LAYBACK PAVEMENT
	FOOTPATH PAVERS TO COUNCIL SPECIFICATIONS
	DRIVEWAY PAVERS TO COUNCIL SPECIFICATIONS
	LANDSCAPE
	RIP RAP PROTECTION
	UTILITIES PROTECTION
	TO BE REMOVED/ DEMOLISHED
	RETAINING WALL
	RETAINING WALL - PRECAST PANEL
	TOP OF WALL LEVEL
	PROPOSED GROUND LEVEL
	FINISHED FLOOR LEVEL
	PAVEMENT LEVEL
	SURFACE LEVEL
	DOWNPIPES
	CONSTRUCTION JOINT
	SAW-CUT JOINT
	ISOLATION JOINT
	OVERLAND FLOW PATH

PRELIMINARY ISSUE

NOTE: THIS IS A STANDARD LEGEND. ALL SYMBOLS MAY NOT NECESSARILY BE USED IN THESE DRAWINGS.

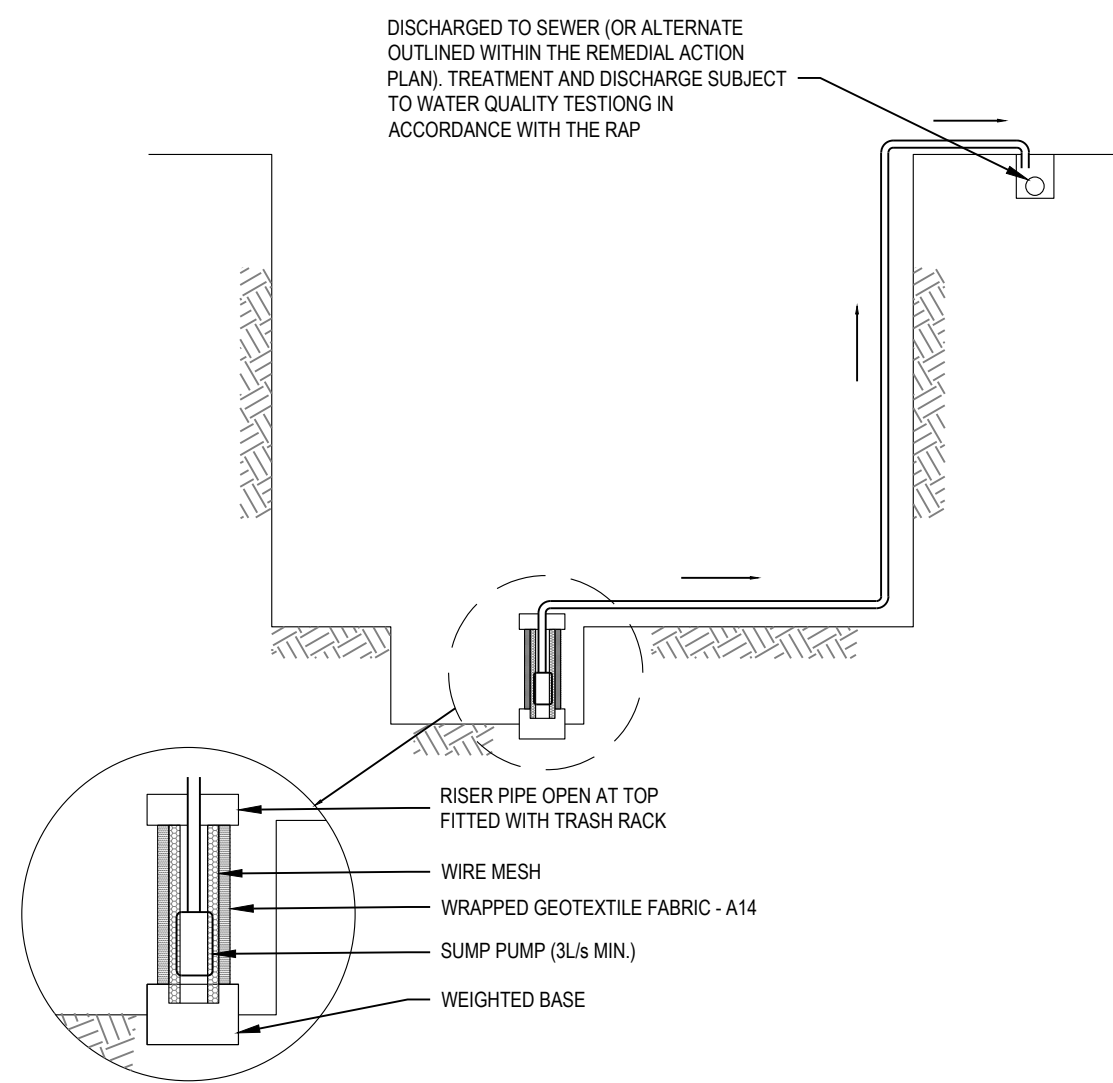
Services Consultant: Suite 6.02, Level 6, 89 York Street, SYDNEY NSW 2000 Ph (02) 9682 3400 Fax (02) 9682 3400 VIC NSW SA QLD	Client: REFORM PROJECTS Suite 15, 108 Dunning Ave Rosebery NSW 2018 Ph +612 8593 8350 info@reformprojects.com.au	Architect: MATHIESON 105 Reservoir St Surry Hills NSW 2010 Ph +61 2 9280 4100 info@mathiesonarchitects.com	Issue 01 21/10/2021 PRELIMINARY ISSUE 02 22/10/2021 REVISED ARCHITECTURAL PLANS	Date 21/10/2021 22/10/2021	Amendment PRELIMINARY ISSUE REVISED ARCHITECTURAL PLANS	Int. App. S.S A.A S.S A.A	COORDINATED REFERENCE DRAWINGS SERVICE DRAWING NUMBER ARCH MECH STRUCT ELEC CIVIL	Project: PROPOSED RESIDENTIAL DEVELOPMENT 14 OCEAN ROAD PALM BEACH	Drawing Title: GENERAL NOTES & LEGEND	North Point: Job No: P649645 Scale: (A1) N.T.S Dwg No: C0001 Issue: 02
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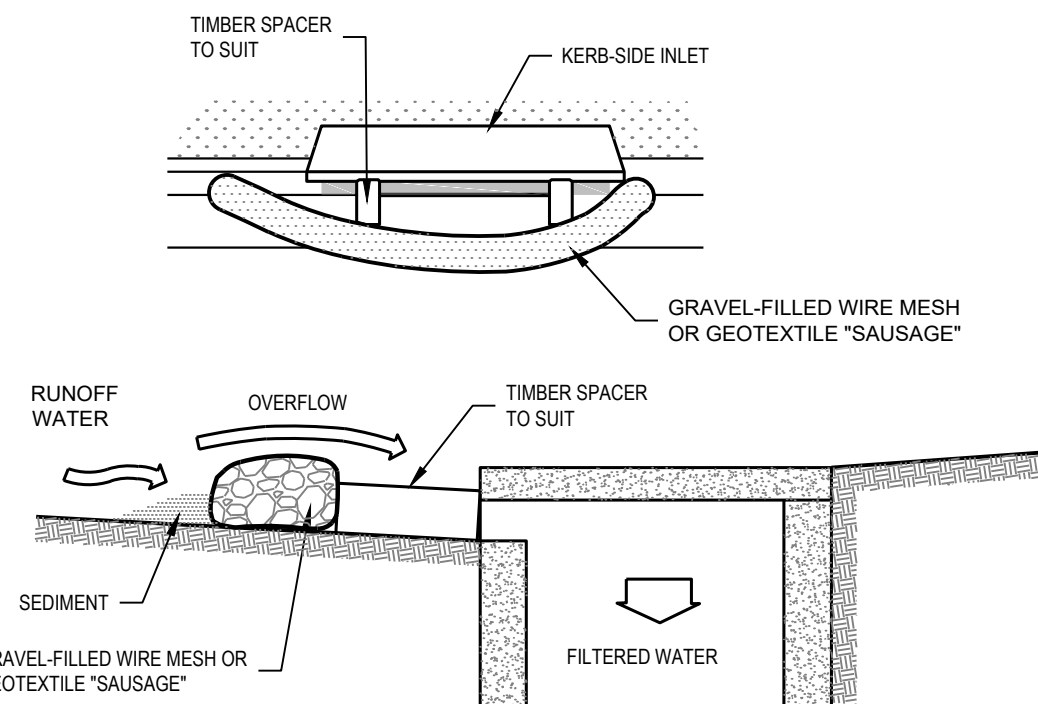
PRELIMINARY ISSUE

<p>Services Consultant:</p> <p>Suite 6.02, Level 6, 89 York Street, SYDNEY NSW 2000 Ph (02) 9682 9400 www.intrax.com.au Intrax Consulting Group VIC NSW SA QLD</p>	<p>Client:</p> <p>REFORM PROJECTS Suite 15, 108 Dunning Ave Rosebery NSW 2018 Ph +612 8593 8350 info@reformprojects.com.au</p>	<p>Architect:</p> <p>MATHIESON 105 Reservoir St Surry Hills NSW 2010 Ph +612 9280 4100 info@mathiesonarchitects.com</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Issue</th> <th>Date</th> <th>Amendment</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>21/10/2021</td> <td>PRELIMINARY ISSUE</td> </tr> <tr> <td>02</td> <td>22/10/2021</td> <td>REVISED ARCHITECTURAL PLANS</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Issue	Date	Amendment	01	21/10/2021	PRELIMINARY ISSUE	02	22/10/2021	REVISED ARCHITECTURAL PLANS																			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Int. App.</th> <th>COORDINATED REFERENCE DRAWINGS</th> <th>ISSUE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>S.S</td> <td>A.A</td> <td>SERVICE</td> <td>DRAWING NUMBER</td> </tr> <tr> <td>S.S</td> <td>A.A</td> <td>ARCH</td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td>MECH</td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td>STRUCT</td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td>ELEC</td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td>CIVIL</td> <td> </td> </tr> </tbody> </table> <p style="font-size: 8px;">THIS DRAWING IS CONFIDENTIAL AND IS NOT TO BE REPRODUCED IN ANY FORM AS A WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN AUTHORITY OF INTRAX PROJECTS. THIS DRAWING IS NOT TO BE USED PREJUDICIAL TO THE INTEREST OF INTRAX PROJECTS. INTRAX PROJECTS © COPYRIGHT ALL RIGHTS RESERVED</p>	Int. App.	COORDINATED REFERENCE DRAWINGS	ISSUE	DATE	S.S	A.A	SERVICE	DRAWING NUMBER	S.S	A.A	ARCH				MECH				STRUCT				ELEC				CIVIL		<p>Project:</p> <p>PROPOSED RESIDENTIAL DEVELOPMENT 14 OCEAN ROAD PALM BEACH</p>	<p>Drawing Title:</p> <p>EROSION AND SEDIMENT CONTROL PLAN</p>	<p>North Point:</p> <p>Job No: P649645 Scale: 1:100 Dwg No: C1001 Issue: 02</p> <p style="font-size: 8px;">NOTE: SYMBOLS ARE DRAWN IN THE CORRECT POSITION BUT ARE NOT SHOWN TO SCALE.</p>
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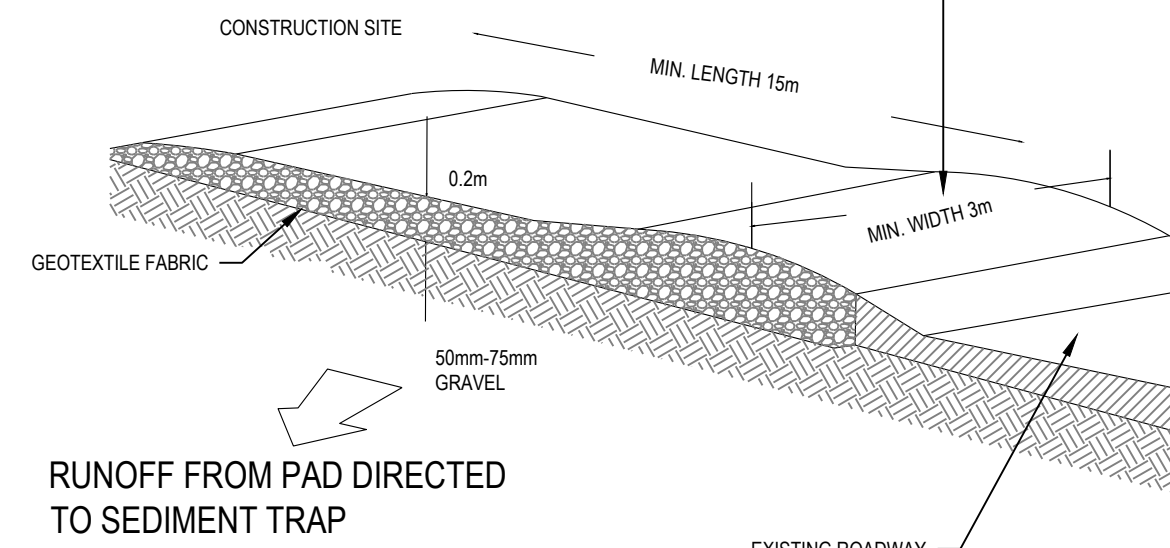


STORMWATER SUMP AND OUTLET
SCALE N.T.S.

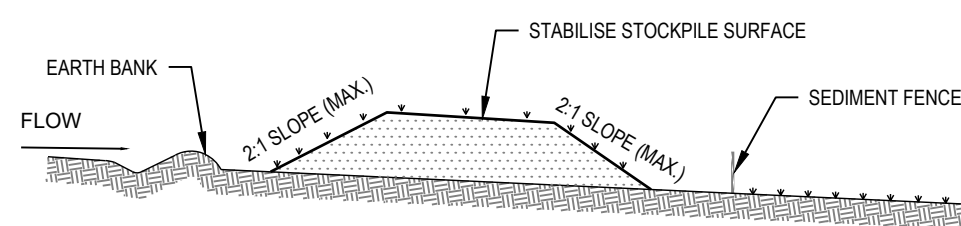


- MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES**
- FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
 - FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
 - PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
 - FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
 - SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY CAN FIRMLY ABUT EACH OTHER AND SEDIMENT / LADEN WATERS CANNOT PASS BETWEEN.

MESH & GRAVEL INLET FILTER
SCALE N.T.S.

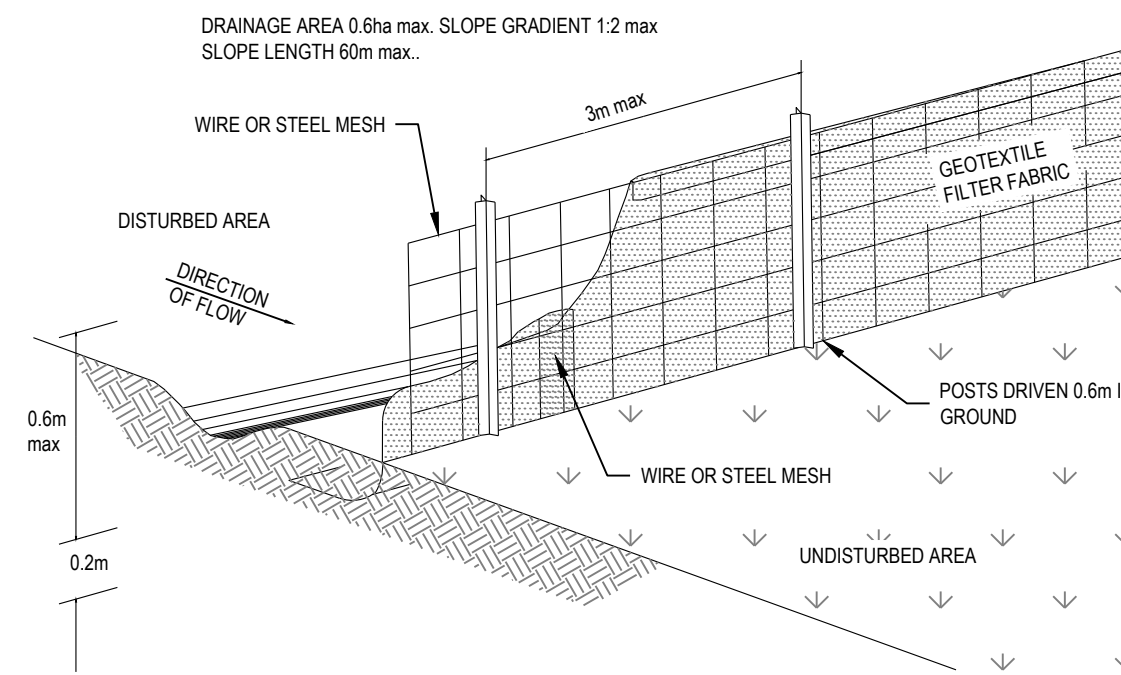


TEMPORARY CONSTRUCTION EXIT
SCALE N.T.S.

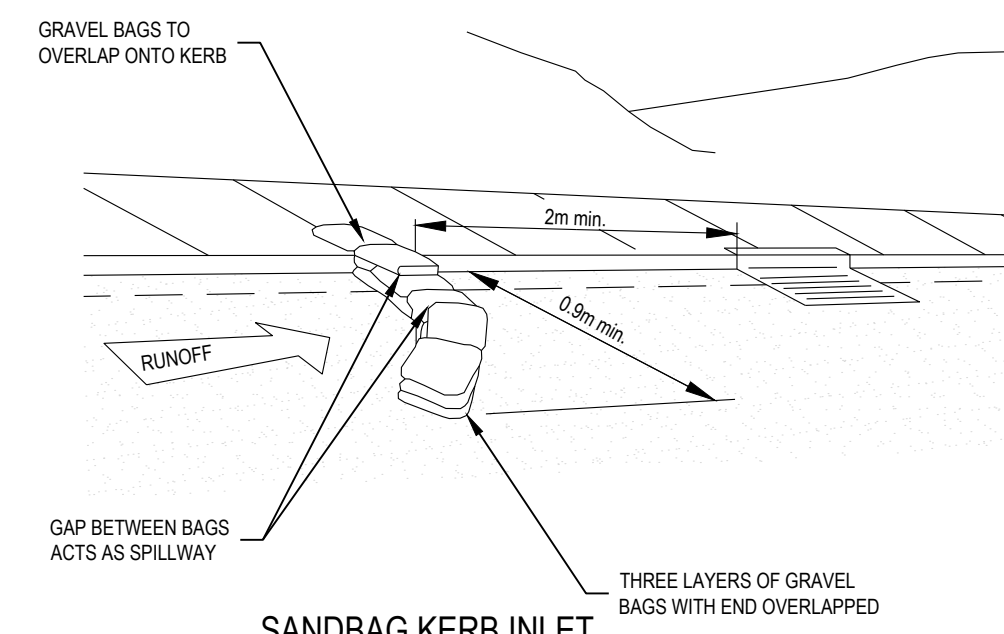


- STOCKPILE CONSTRUCTION NOTES:**
- PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
 - CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
 - WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
 - WHERE THEY ARE TO BE PLACED FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED E.S.C.P. OR S.W.M.P. TO REDUCE THE C FACTOR TO LESS THAN 0.10.
 - CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

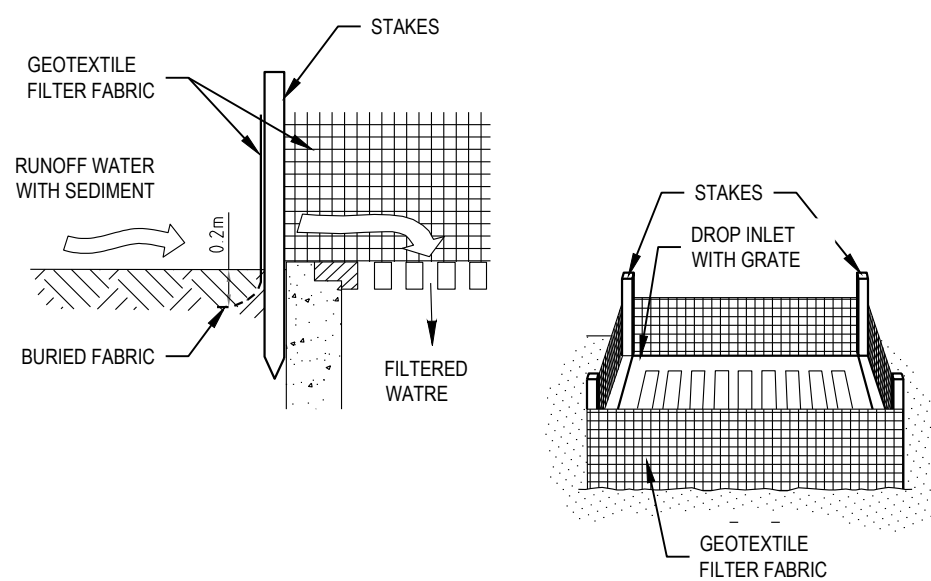
STOCKPILES
SCALE N.T.S.



SEDIMENT FENCE
SCALE N.T.S.



SANDBAG KERB INLET SEDIMENT TRAP
SCALE N.T.S.



GEOTEXTILE FILTER FABRIC DROP INLET SEDIMENT TRAP
SCALE N.T.S.

NOTES:

- FOR GENERAL NOTES AND LEGEND, REFER TO DRAWING NO C-0001.
- REFER TO DRAWING C-1001 FOR EROSION & SEDIMENT CONTROL PLAN.

EROSION AND SEDIMENT CONTROL

- THE EROSION AND SEDIMENT CONTROL PLAN ADDRESSES THE MANAGEMENT OF ON SITE STORMWATER RUNOFF DURING CONSTRUCTION. IT DOES NOT ADDRESS BASEMENT EXCAVATION, GROUND WATER MANAGEMENT OR DEWATERING REQUIREMENTS. IT IS TO BE READ IN CONJUNCTION WITH ALL OTHER GEOTECHNICAL, RAP, ENVIRONMENTAL AND STRUCTURAL DOCUMENTATION.
- THE PLAN IS CONCEPT ONLY. SITE CONDITIONS AND PHASING OF WORKS ARE LIKELY TO INFLUENCE CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AMENDING THE SCHEME TO SUIT CONDITIONS AT THE TIME OF WORKS AND CONSTRUCTION PROGRAM.
- THE CONTRACTOR IS TO INFORM ALL BUILDERS AND SUBCONTRACTORS OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO ROADWAYS AND WATERWAYS.
- THE CONTRACTOR IS TO IMPLEMENT AN APPROPRIATE ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SPILL POLLUTION CONTAINMENT AND TREATMENT PROCEDURES. THE CONTRACTOR IS TO ENSURE THAT ANY SPILL/POLLUTION COLLECTED IN THE STORMWATER SUMP IS IMMEDIATELY TREATED.
- WATER SHALL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE. IF THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
- ALL SOIL AND WATER CONTROL MEASURES ARE TO BE PROVIDED IN ACCORDANCE WITH THE GUIDELINES FOR EROSION AND SEDIMENT CONTROL ON NORTHERN BEACHES COUNCIL WATER MANAGEMENT FOR DEVELOPMENT POLICY, LAND-ON SOIL AND CONSTRUCTION MANUAL VOLUME 1, MARCH 2004 (BLUE BOOK) AND THE NSW PROTECTION OF THE ENVIRONMENT OPERATIONS ACT 1997.
- STOCKPILE LOCATIONS TO BE DEPENDENT ON THE LOAD OUT LOCATION AND THE POINT OF EXCAVATION. STOCKPILE LOCATIONS TO BE MARKED ON THE SITE PLAN AT THE SITE OFFICE AS THE PROJECT PROGRESSES.
- SHOULD ANY MATERIAL BE WASHED FROM EQUIPMENT, SUCH AS CONCRETE SLURRIES FROM CONCRETE TRUCKS, A WASHING/CLEANING AREA WITH APPROPRIATE SEDIMENT CONTROL MEASURES IS TO BE SETUP ON A FLAT AREA OF THE SITE.
- THE CONTRACTOR SHALL MAINTAIN A LOG BOOK DETAILING:
 - RECORDS OF ALL RAINFALL (I.E. DAILY RAINFALL)
 - CONDITION OF SOIL AND WATER MANAGEMENT CONTROL MEASURES ANY ADDITIONAL REMEDIAL WORKS REQUIRED.
- THE LOG BOOK SHALL BE MAINTAINED ON A WEEKLY BASIS AND BE MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. THE ORIGINAL LOG BOOK SHALL BE ISSUED TO THE PROJECT MANAGER AT THE COMPLETION OF THE WORKS.
- DUST CONTROL MEASURES SHALL BE IMPLEMENTED CONTINUOUSLY DURING CONSTRUCTION WORKS TO THE SATISFACTION OF THE SUPERINTENDENT.
- CONTROL MEASURES AFFECTED BY WORKS ARE TO BE RE-ESTABLISHED PRIOR TO THE COMPLETION OF EACH DAYS WORK.
- ALL CONTROL MEASURES ARE TO BE CLEANED AND MAINTAINED AT LEAST WEEKLY OR AFTER EVERY RAINFALL EVENT.
- FOLLOWING THE COMPLETION AND RESTORATION OF SITE, THE CONTRACTOR IS TO REMOVE ALL CONTROL MEASURES.
- PERMANENT DRAINAGE STRUCTURES INCLUDING PIPES AND PITS ARE TO BE HANDED OVER IN A CLEAN CONDITION AT THE COMPLETION OF THE CONTRACT MAINTENANCE PERIOD.
- TEMPORARY STORMWATER SUMPS (LOCATIONS TO SUIT SITE PHASING):
 - DISCHARGE PUMP NOM. FLOW RATE = 3 l/s
 - RUNOFF COEFFICIENT = 1.00
 - SIZING OF SUMPS BASED ON STORAGE REQUIRED FOR A 3 MONTH ARI STORM EVENT UP TO 12 HOURS IN DURATION INTENSITIES FROM AUSTRALIAN BUREAU OF METEOROLOGY (FD DATA SYSTEM).
- PRIOR TO DISCHARGING COLLECTED WATER TO INCLUDING THOSE IDENTIFIED IN THE RAP, IT IS TO BE TESTED TO ENSURE COMPLIANCE WITH WATER QUALITY REQUIREMENTS. SHOULD TESTING GIVE RESULTS THAT DO NOT COMPLY WITH THE ABOVE, TREATMENT MEASURES (SUCH AS THE APPLICATION OF A pH NEUTRAL FLOCCULANT) AND SUBSEQUENT RETESTING ARE REQUIRED. DOCUMENTARY RESULTS OF WATER QUALITY TESTING PRIOR TO DEWATERING ARE TO BE KEPT. A FILE IS TO BE KEPT ON SITE OF ALL WATER TESTING/DEWATERING EVENTS. FOLLOWING DEWATERING THE SUMP IS TO BE CLEARED OF SEDIMENT AND THE GEOTEXTILE ON THE PUMP WELL IS TO BE REPLACED.
- ALL STORMWATER PITS TO BE COVERED OR DROP INLET SEDIMENT TRAPS SHALL BE PROVIDED. KERB INLET TRAPS ARE TO BE INSTALLED AFTER COMPLETION OF PAVING.
- ALL SERVICE TRENCHES MUST BE FILLED IN AND COMPACTED IMMEDIATELY AFTER SERVICES HAVE BEEN LAID.
- ROADS AND FOOTPATHS AFFECTED BY THE WORKS MUST BE SWEEP CLEAN DAILY. SOILS MUST BE RETAINED BEHIND CONTROL DEVICES.
- CONTRACTOR MUST ENSURE THAT ALL VEHICLES LEAVING SITE ARE HOSED DOWN (OR SIMILAR) TO REMOVE SEDIMENT.
- CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. THE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (E.G. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
- EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
- NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
- GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
- CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DRAPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXISTING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING & LEAVING THE SITE DO SO IN A FORWARD DIRECTION.
- WATER TO BE DISCHARGED MUST BE TESTED AND, IF REQUIRED, TREATED TO ENSURE IT MEETS THE WATER QUALITY CRITERIA AND THAT POLLUTION OF THE RECEIVING WATERS DOES NOT OCCUR. BEFORE WATER CAN BE DISCHARGED TO THE RECEIVING ENVIRONMENT, THE FOLLOWING CRITERIA MUST BE MET, UNLESS SUBJECT TO AN ENVIRONMENTAL PROTECTION LICENCE OR SITE-SPECIFIC CRITERIA. TEMPORARY DEWATERING IN AN AQUIFER REQUIRES THE APPROVAL OF THE NATURAL RESOURCES ACCESS REGULATOR.

PARAMETER	CRITERION	METHOD	TIME PRIOR TO DISCHARGE
OIL AND GREASE	NO VISIBLE	VISUAL INSPECTION	<1 HOUR
pH	6.5 - 8.5	PROBEMETER	<1 HOUR
TOTAL SUSPENDED SOLIDS	<50 mg/L	METER/GRAB SAMPLE	<1 HOUR

PRELIMINARY ISSUE

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CIVIL SERVICES

Issue	Date	Amendment	Int.	App.	COORDINATED REFERENCE DRAWINGS	ISSUE	DATE
01	21/10/2021	PRELIMINARY ISSUE	S.S	A.A	SERVICE DRAWING NUMBER		
02	22/10/2021	REVISED ARCHITECTURAL PLANS	S.S	A.A	ARCH		
					MECH		
					STRUCT		
					ELEC		
					CIVIL		

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Project: **PROPOSED RESIDENTIAL DEVELOPMENT
14 OCEAN ROAD
PALM BEACH**

Drawing Title: **EROSION AND SEDIMENT CONTROL
DETAIL & NOTES**

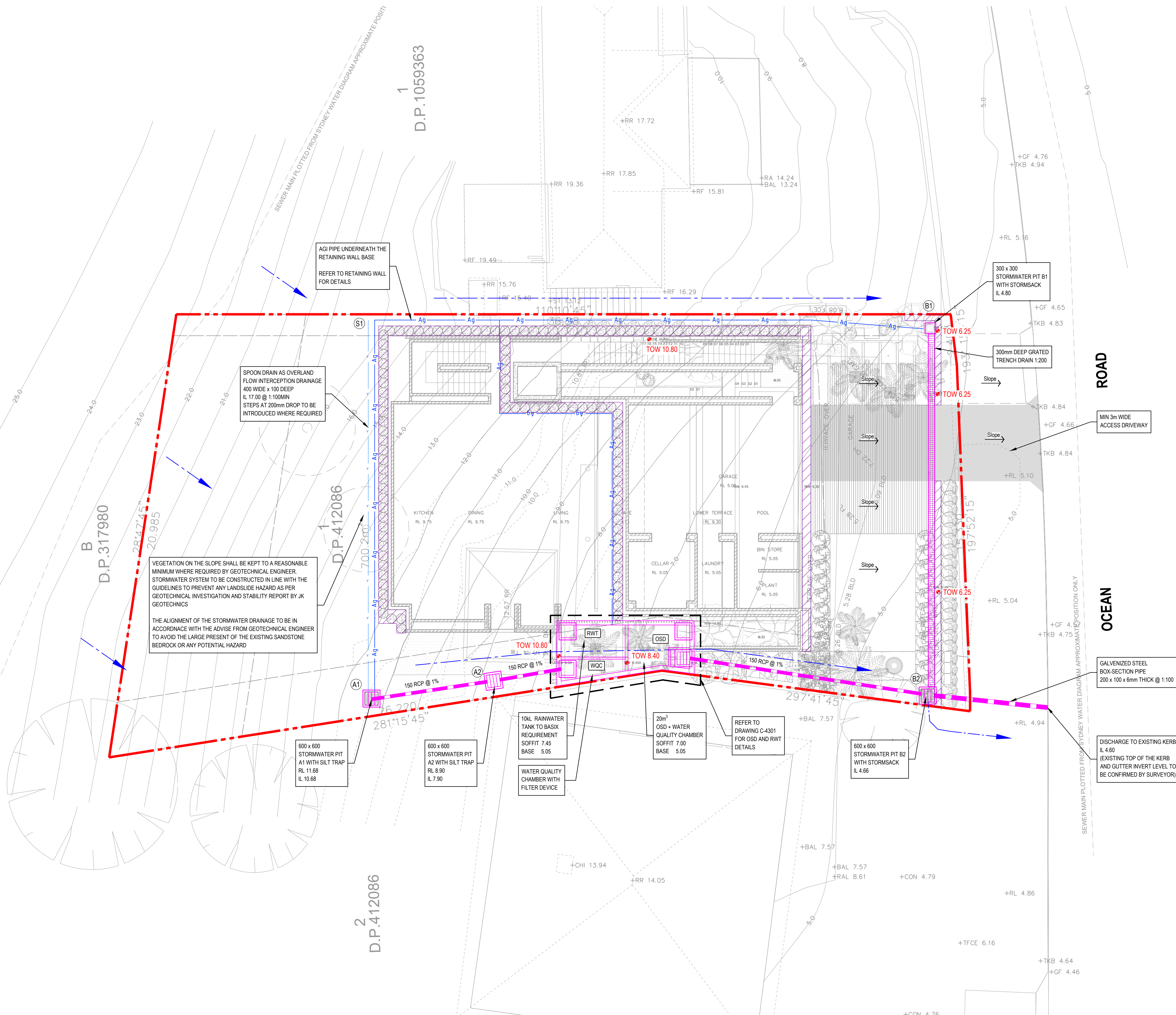
North Point: **ISO 9001:2015
Quality Management**

Job No: **P649645** Scale: **AS NOTED**

Dwg No: **C1011** Issue: **02**

NOTE: SYMBOLS ARE DRAWN IN THE CORRECT POSITION BUT ARE NOT SHOWN TO SCALE.

NOTE:
 1. REFER TO HYDRAULIC ENGINEER DRAWING FOR ROOFTOP DRAINAGE AND INTERNAL HYDRAULIC SYSTEM DESIGN
 2. RETAINING WALL DESIGN TO BE PROVIDED BY STRUCTURAL ENGINEER



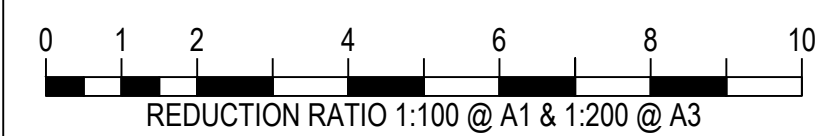
VEGETATION ON THE SLOPE SHALL BE KEPT TO A REASONABLE MINIMUM WHERE REQUIRED BY GEOTECHNICAL ENGINEER. STORMWATER SYSTEM TO BE CONSTRUCTED IN LINE WITH THE GUIDELINES TO PREVENT ANY LANDSLIDE HAZARD AS PER GEOTECHNICAL INVESTIGATION AND STABILITY REPORT BY JK GEOTECHNICS
 THE ALIGNMENT OF THE STORMWATER DRAINAGE TO BE IN ACCORDANCE WITH THE ADVISE FROM GEOTECHNICAL ENGINEER TO AVOID THE LARGE PRESENT OF THE EXISTING SANDSTONE BEDROCK OR ANY POTENTIAL HAZARD

SPOON DRAIN AS OVERLAND FLOW INTERCEPTION DRAINAGE 400 WIDE x 100 DEEP IL 17.00 @ 1:100MM STEPS AT 200mm DROP TO BE INTRODUCED WHERE REQUIRED

AGI PIPE UNDERNEATH THE RETAINING WALL BASE REFER TO RETAINING WALL FOR DETAILS

GALVANIZED STEEL BOX SECTION PIPE 200 x 100 x 6mm THICK @ 1:100

DISCHARGE TO EXISTING KERB IL 4.60 EXISTING TOP OF THE KERB AND GUTTER INVERT LEVEL TO BE CONFIRMED BY SURVEYOR

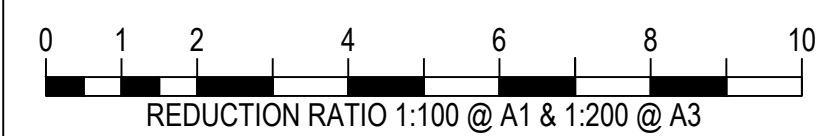
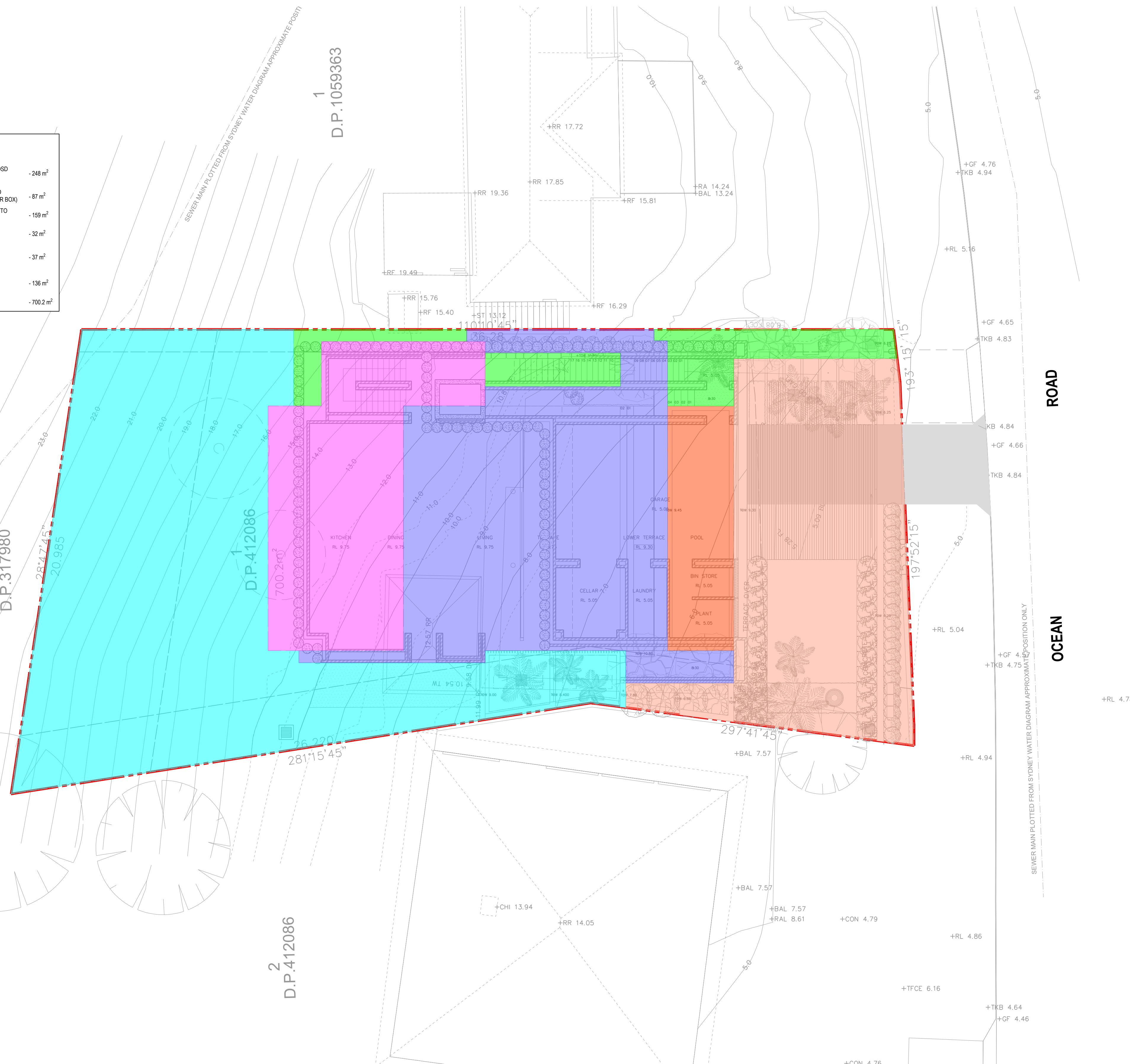


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			SERVICE	DRAWING NUMBER	ISSUE	DATE																											
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CIVIL SERVICES			THIS DRAWING IS CONFIDENTIAL AND IS NOT TO BE REPRODUCED IN ANY FORM AS A WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN AUTHORITY OF INTRAX PROJECTS. THIS DRAWING CONTAINS PATENTS PENDING AND INTELLECTUAL PROPERTY OWNED BY INTRAX PROJECTS. © COPYRIGHT ALL RIGHTS RESERVED	Job No: P649645	Scale: 1:100 (A1)	Dwg No: C4001	Issue: 02	NOTE: SYMBOLS ARE DRAWN IN THE CORRECT POSITION BUT ARE NOT SHOWN TO SCALE.	ORIGINAL SIZE: A1																								

LEGEND

	LANDSCAPE CATCHMENT TO WQC AND OSD (100% PERMEABLE)	-248 m ²
	ROOFTOP CATCHMENT TO RWIT AND OSD (0% PERMEABLE, 50% AREA ARE PLANTER BOX)	-87 m ²
	LANDSCAPE AND TERRACE CATCHMENT TO WQC AND OSD (0% PERMEABLE)	-159 m ²
	POOL CATCHMENT TO SEWER SYSTEM (0% PERMEABLE)	-32 m ²
	CATCHMENT BYPASS OSD TANK AND DISCHARGE TO STORMWATER PIT B1 (50% PERMEABLE)	-37 m ²
	CATCHMENT BYPASS OSD TANK AND DISCHARGE TO STORMWATER PIT B2 (60% PERMEABLE)	-136 m ²
	TOTAL SITE AREA	-700.2 m ²



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Project:
PROPOSED RESIDENTIAL DEVELOPMENT
14 OCEAN ROAD
PALM BEACH

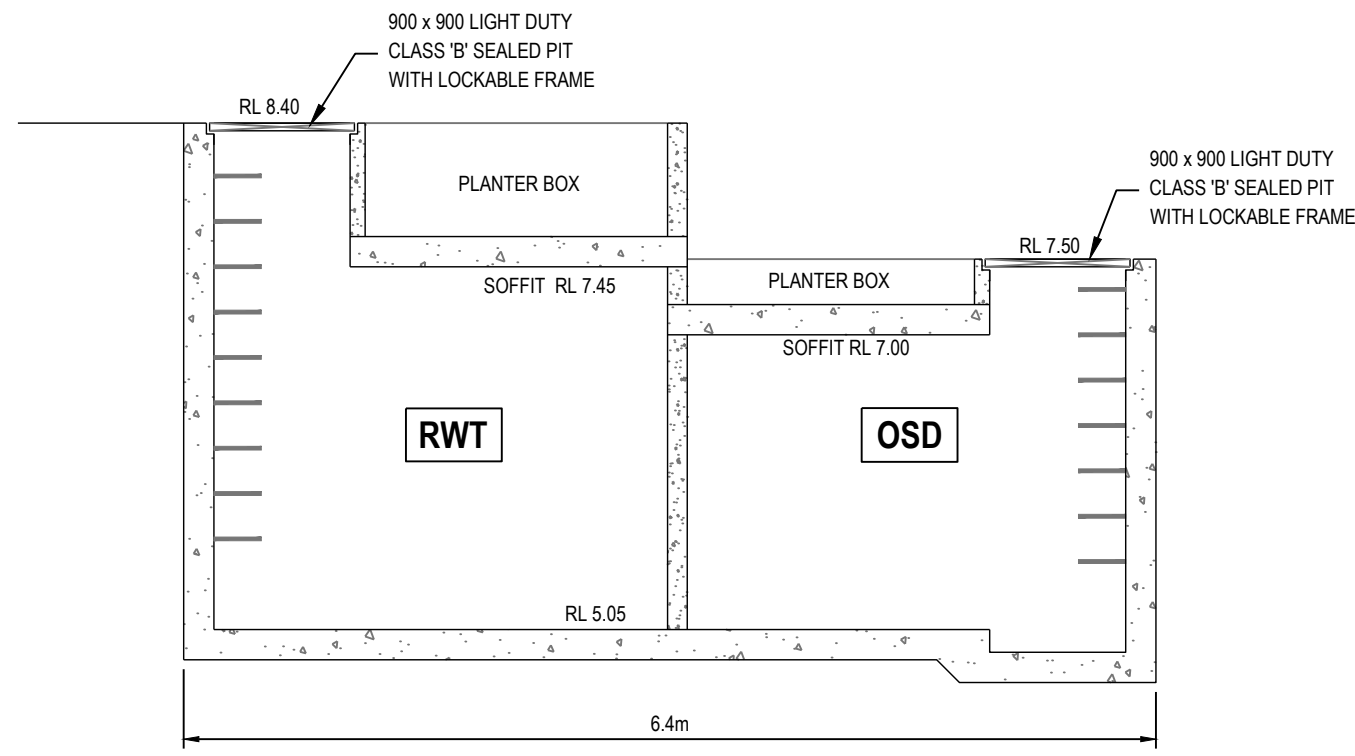
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STORMWATER CATCHMENT PLAN

North Point:

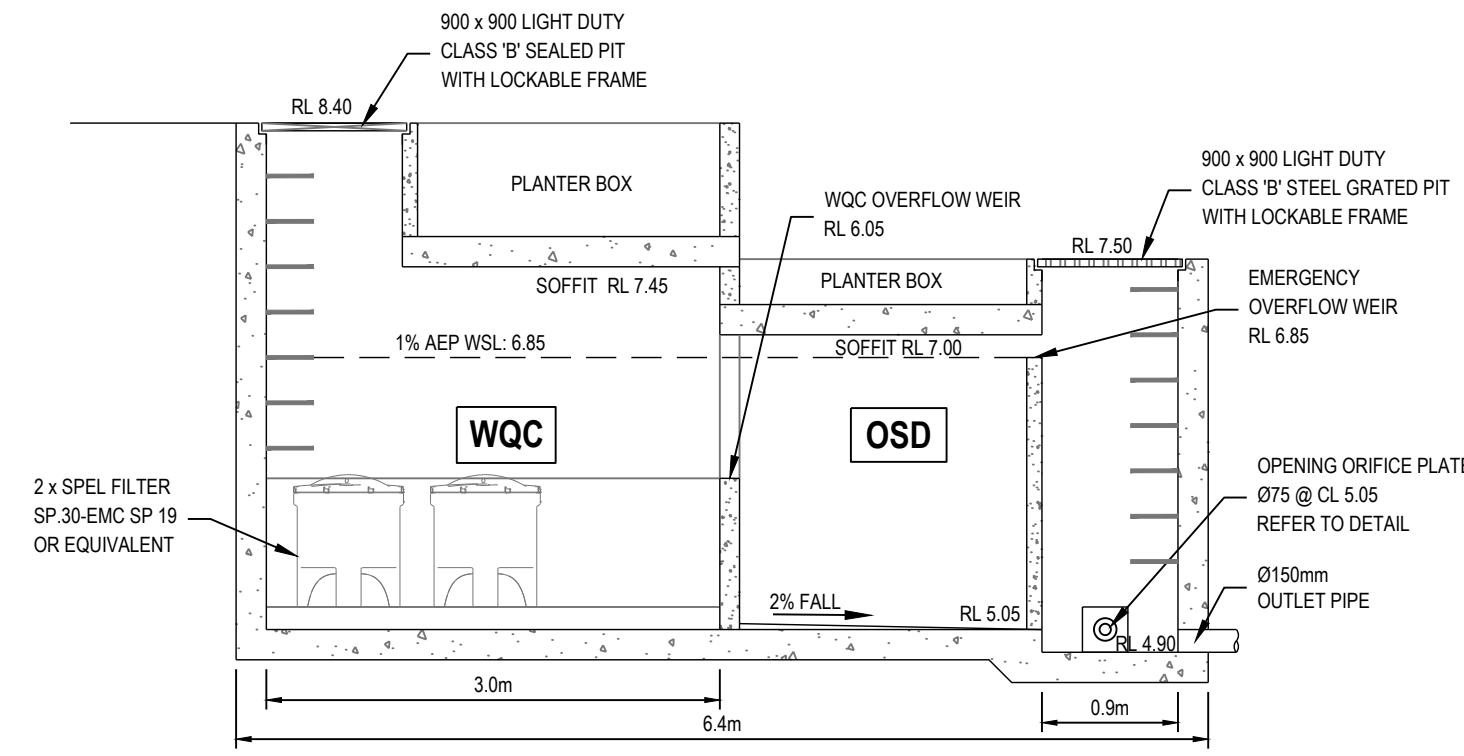
 Job No: **P649645**
 Dwg No: **C4101**

Scale: **1:100**
 Issue: **02**

ORIGINAL SIZE: A1

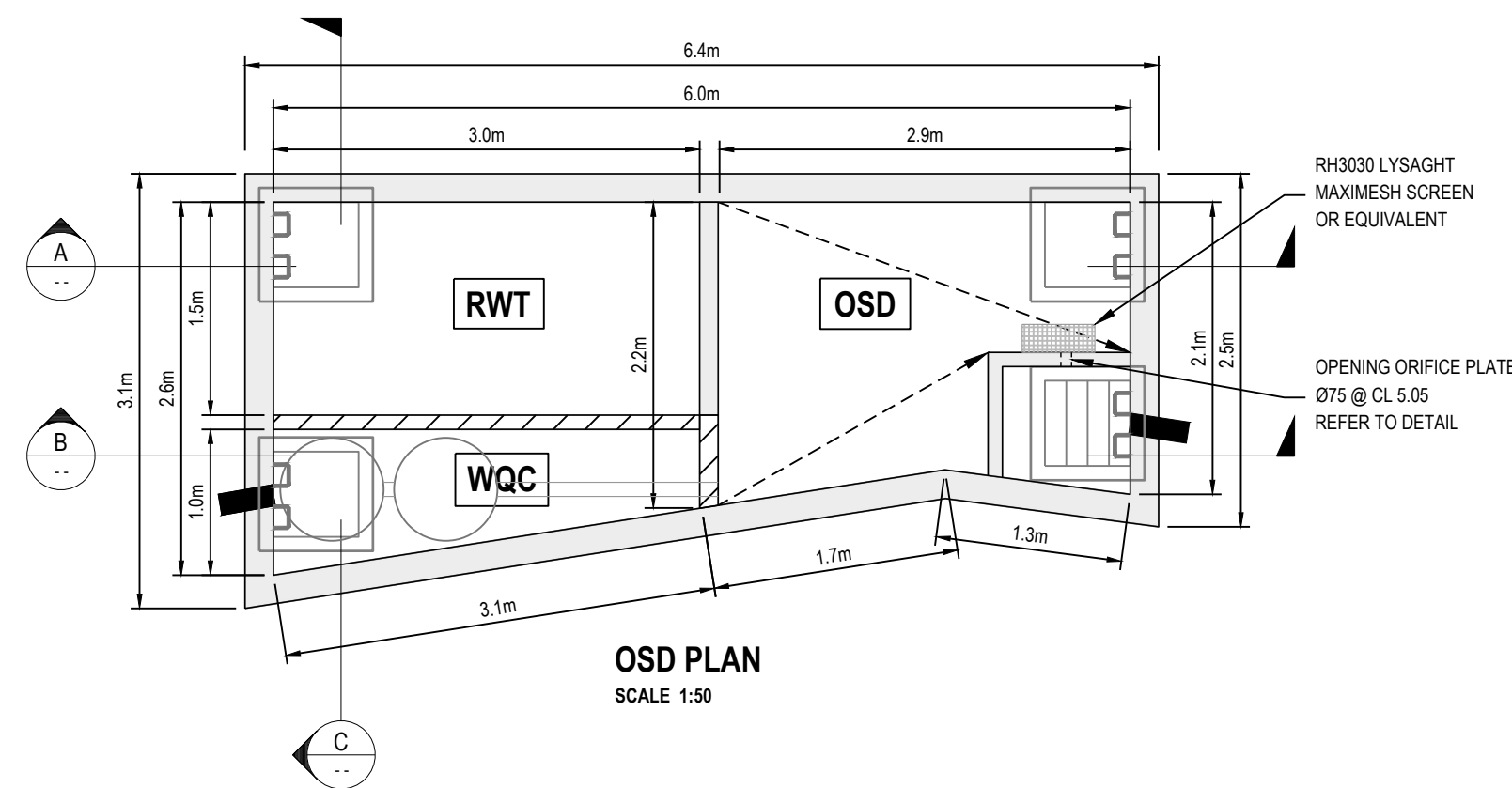


A SECTION
SCALE 1:50

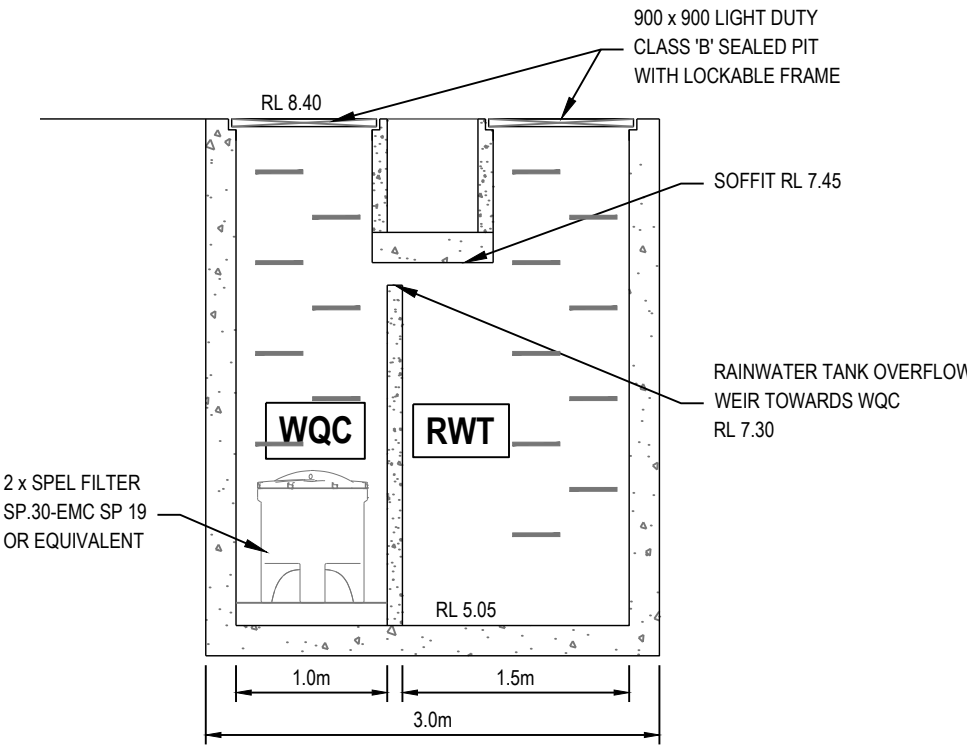


B SECTION
SCALE 1:50

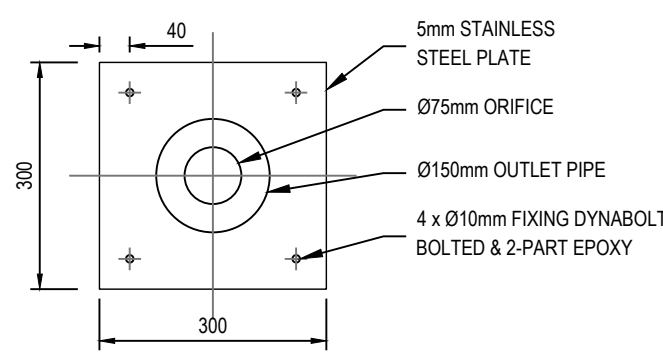
DESIGN NOTES:
 TOTAL SITE AREA = 700 m²
 OSD CATCHMENT AREA = 495 m²
 BYPASS TO OSD = 205 m²
 ON-SITE DETENTION AND WSUD ARE REQUIRED BY COUNCIL.
 THE INTERNAL STORMWATER SYSTEM IS SIZED TO CATER FOR 1% AEP.
 THE OSD IS SIZED USING SIMPLIFIED METHOD TO MEET COUNCIL'S REQUIREMENTS.
 RAINWATER TANK SIZE AS PER BASIX = 10 m³
 TOTAL OSD REQUIRED = 18.9 - 0.25x10 = 16.40 m³
 OSD + WQC TANK SIZE PROVIDED = 16.50 m³
 TOTAL OSD + RWT PROVIDED = 16.50 + 10 = 26.50 m³



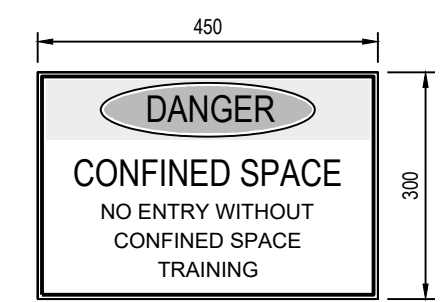
OSD PLAN
SCALE 1:50



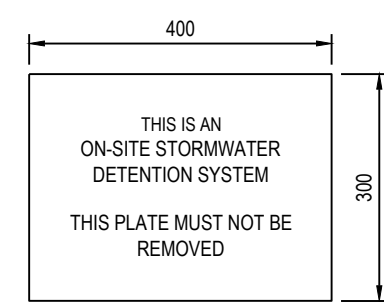
C SECTION
SCALE 1:50



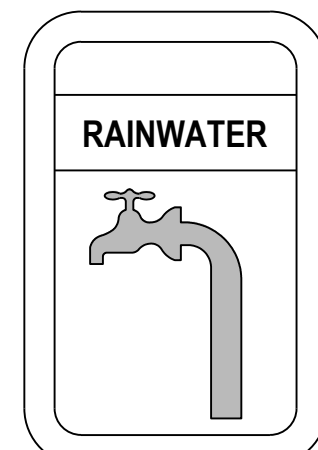
OSD TANK ORIFICE PLATE DETAIL (1% AEP)
SCALE 1:10



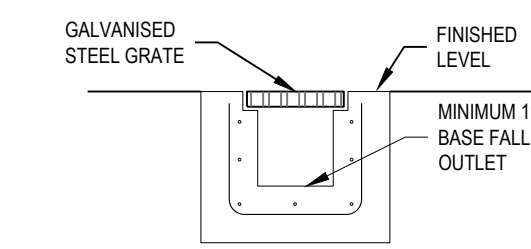
CONFINED SPACE SIGN
SCALE 1:10



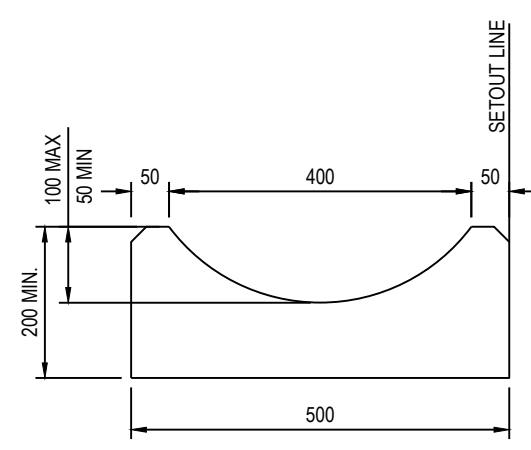
OSD SIGN
SCALE 1:10



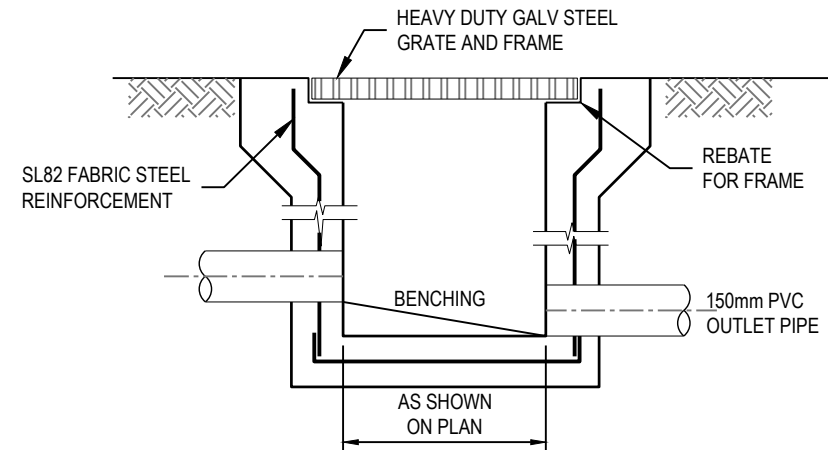
RAINWATER SIGN
SCALE 1:20
LEGEND:
BACKGROUND IS YELLOW
TEXT IS WHITE ON BLACK BACKGROUND



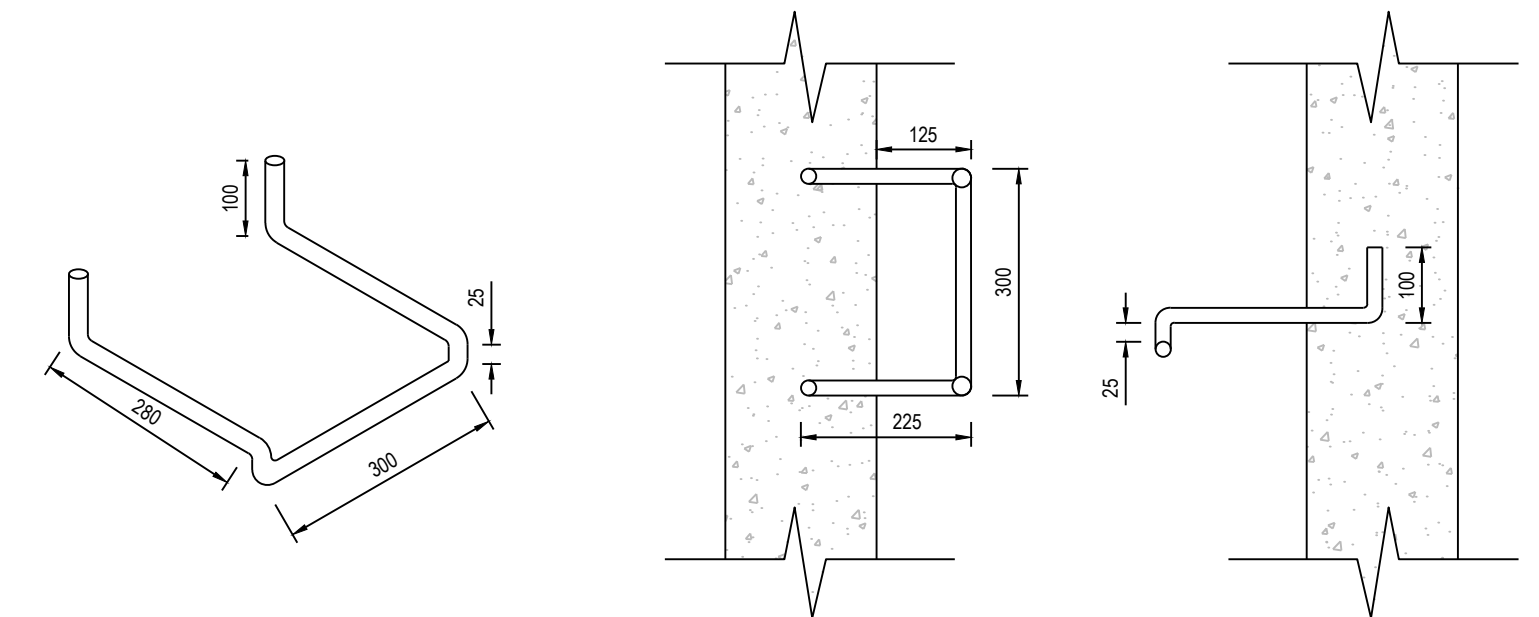
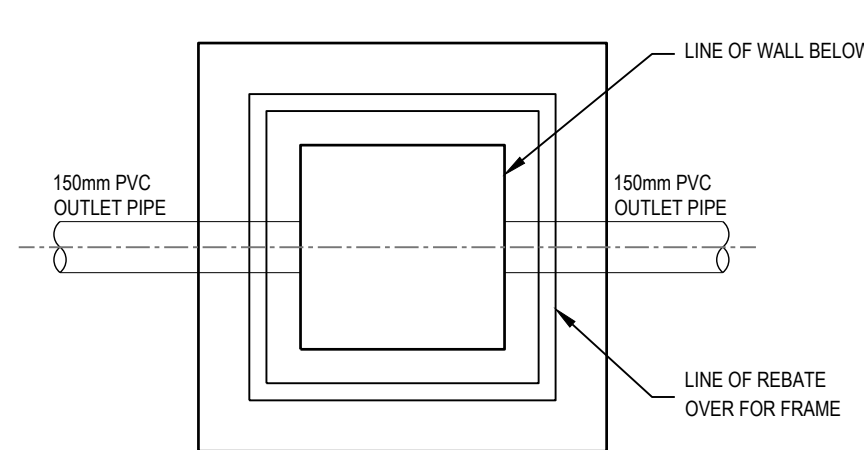
GRATED TRENCH DRAIN
SCALE N.T.S.



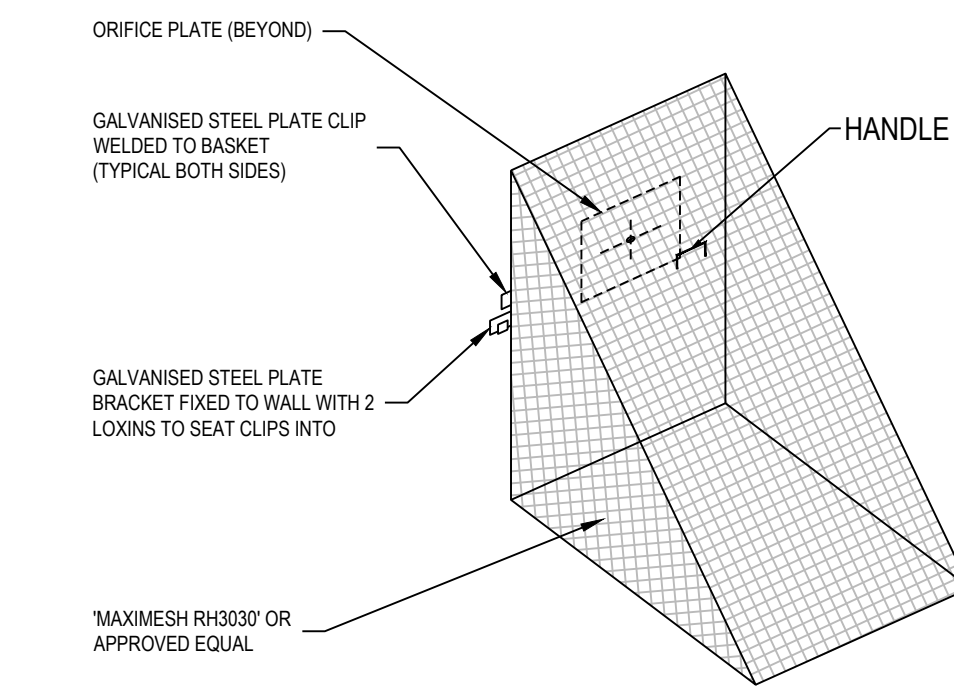
SPOON DRAIN
SCALE 1:10



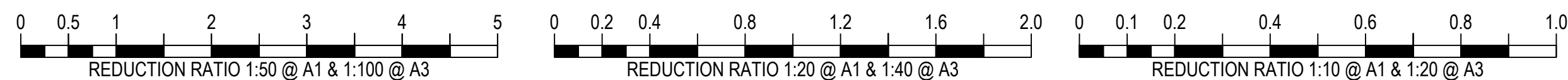
STORMWATER PIT DETAIL
SCALE N.T.S.



STEP IRON DETAIL
SCALE 1:10
STEP IRON OF 20mm GALVANISED STEEL MADE TO SHAPE AND DIMENSIONS AS SHOWN, PLACED AT 300 CENTRES AND STAGGERED HORIZONTALLY FOR ALL PITS DEEPER THAN 1.0m. THE USE OF PROPRIETARY STEP IRONS ARE ACCEPTABLE PROVIDED THE PRODUCT IS IN ACCORDANCE WITH AUSTRALIAN STANDARDS

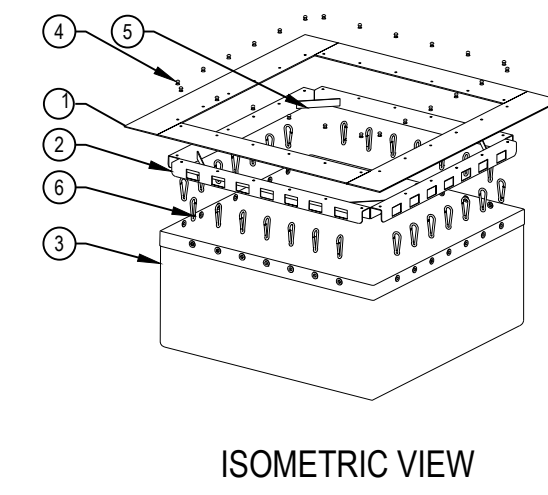


TRASH SCREEN TYPICAL DETAIL
NOT TO SCALE

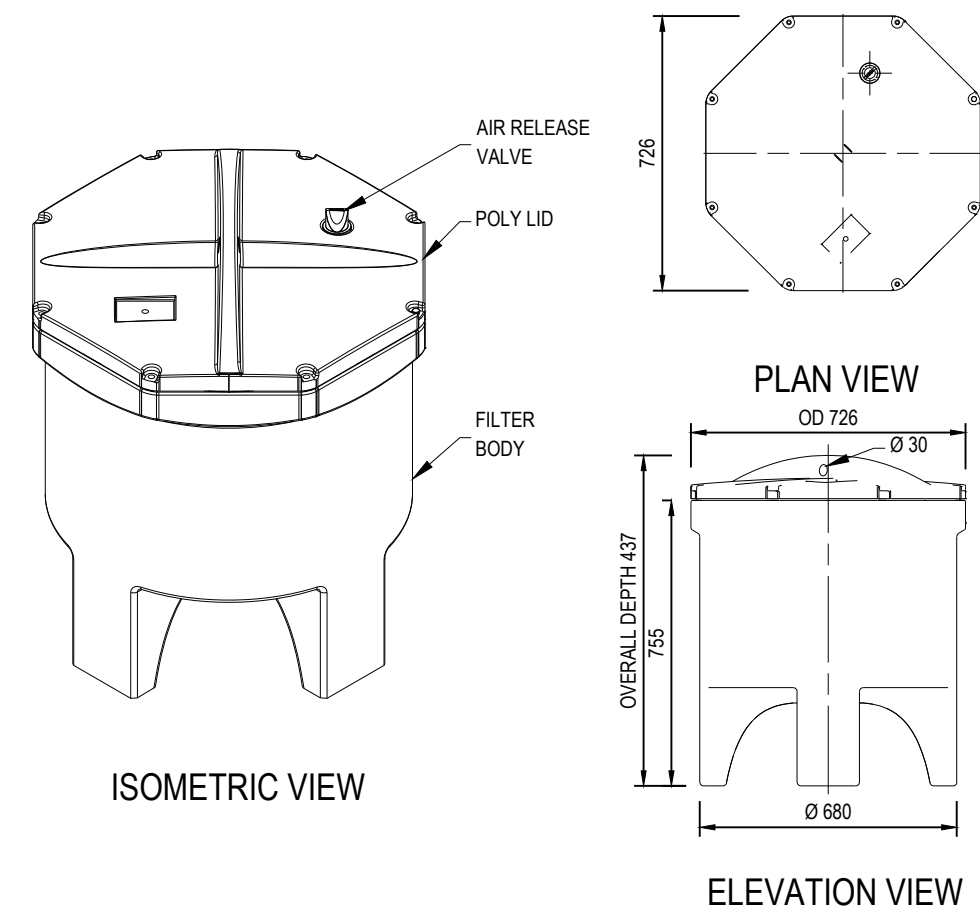


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			Job No: P649645 Dwg No: C4301	Scale: AS NOTED (A1) Issue: 02	NOTE: SYMBOLS ARE DRAWN IN THE CORRECT POSITION BUT ARE NOT SHOWN TO SCALE.		



ISOMETRIC VIEW



ISOMETRIC VIEW

ELEVATION VIEW

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	PLASTIC SHEETING	HDPE
2	4	SHEET METAL BINDING	STAINLESS STEEL 304
3	1	TEXTILE FABRIC & MESH LINER	HDPE
4	24	BLIND RIVIT 7 DIA.	STAINLESS STEEL 304
5	4	CORNER ESTIFFENER - FLAT BAR 25 x 2.141 LG	STAINLESS STEEL 304
6	28	CARABINER CLIP 6	ALUMINIUM

SPEL STORMSACK 600 x 600 DETAIL
SCALE N.T.S.

NOTE:

THE DETAILED OSD AND WATER QUALITY DEVICE MAINTENANCE SCHEDULE TO BE PROVIDED BY THE MANUFACTURER SHOULD THE PROVIDER BE ENGAGED IN CONSTRUCTION STAGE.

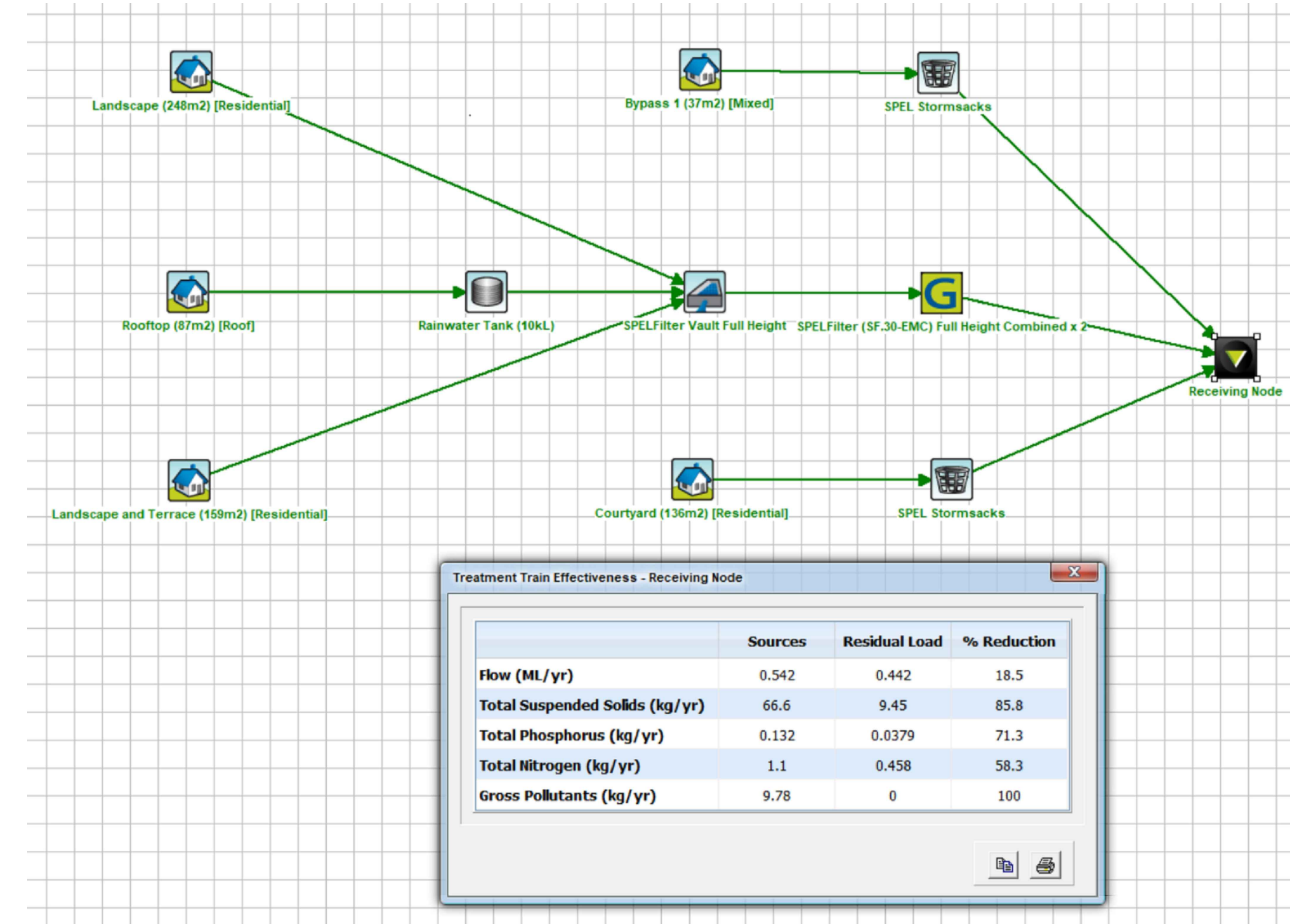
REFER TO MANUFACTURER OPERATION AND MAINTENANCE MANUAL FOR THE MAINTENANCE SCHEDULE OF STORMWATER FILTER DEVICE

SPEL FILTER DETAIL
SCALE N.T.S.

NOTE:

THE DETAILED OSD AND WATER QUALITY DEVICE MAINTENANCE SCHEDULE TO BE PROVIDED BY THE MANUFACTURER SHOULD THE PROVIDER BE ENGAGED IN CONSTRUCTION STAGE.

REFER TO MANUFACTURER OPERATION AND MAINTENANCE MANUAL FOR THE MAINTENANCE SCHEDULE OF STORMWATER FILTER DEVICE



	Sources	Residual Load	% Reduction
Flow (ML/yr)	0.542	0.442	18.5
Total Suspended Solids (kg/yr)	66.6	9.45	85.8
Total Phosphorus (kg/yr)	0.132	0.0379	71.3
Total Nitrogen (kg/yr)	1.1	0.458	58.3
Gross Pollutants (kg/yr)	9.78	0	100

MUSIC MODEL
SCALE N.T.S.

OSD SCHEDULE							
OSD NO.	TYPE	BASE AREA (m ²)	AVG. DEPTH (m)	MAX DEPTH (m)	VOLUME (m ³)	FREEBOARD	NOTE
1	UNDERGROUND CAST IN-SITU OSD TANK	9.20	1.80	1.85	16.50	150	OSD TANK INCLUSIVE OF STORMWATER FILTER SYSTEM IN THE WATER QUALITY CHAMBER (WQC). OPEN LIDS TO OVERFLOW PIT EVERY 3 MONTHS FOR VISUAL INSPECTION AND REMOVE LITTER AND SEDIMENT IF NECESSARY. REMOVE MESH LITTER GUARD EVERY 6 MONTHS TO CHECK IF ORFICE IS IN FUNCTIONAL CONDITION. OPEN LIDS TO OSD STORAGE CHAMBER EVERY 24 MONTHS AND VACUUM SEDIMENTS IF NECESSARY. STORMWATER FILTER CHAMBER AND FILTER MAINTENANCE TO MANUFACTURER'S SPECIFICATIONS. REFER TO MANUFACTURER OPERATION AND MAINTENANCE MANUAL FOR THE MAINTENANCE SCHEDULE OF STORMWATER FILTER DEVICE

NOTE:

THE DETAILED OSD AND WATER QUALITY DEVICE MAINTENANCE SCHEDULE TO BE PROVIDED BY THE MANUFACTURER SHOULD THE PROVIDER BE ENGAGED IN CONSTRUCTION STAGE.

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			Job No: P649645 Dwg No: C4302	Scale: (A1) AS NOTED	Issue: 02	NOTE: SYMBOLS ARE DRAWN IN THE CORRECT POSITION BUT ARE NOT SHOWN TO SCALE.			