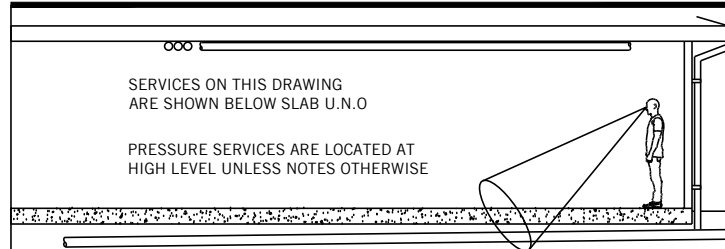




NEW RESIDENCE
AT
41 & 43 BEACH ROAD
COLLARROY
FOR
RUSSELL STALEY
JENNIFER STALEY

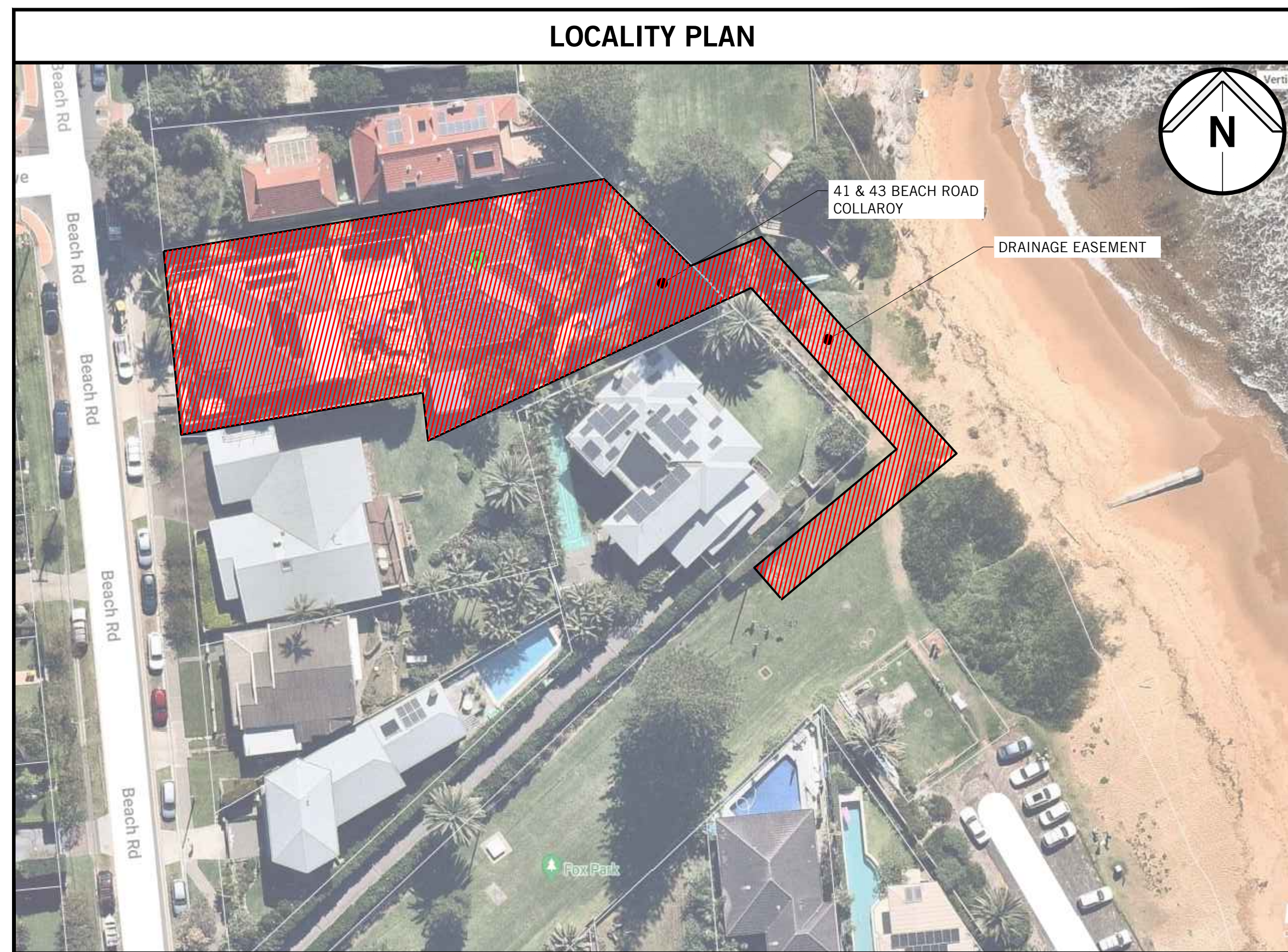
DRAWING LIST	
DRAWING No.	TITLE
SW(S4.55) 1.1	COVERSHEET, NOTES & DRAWING LEGEND
SW(S4.55) 1.2	STORMWATER MANAGEMENT PLAN AND NOTES
SW(S4.55) 1.3	SEDIMENT AND EROSION PLAN
SW(S4.55) 1.4	STORMWATER DRAINAGE GROUND FLOOR LAYOUT
SW(S4.55) 1.5	STORMWATER DRAINAGE BASEMENT FLOOR LAYOUT
SW(S4.55) 1.6	STORMWATER DRAINAGE DISCHARGE PIPE AND EASEMENT PLAN
SW(S4.55) 1.7	STORMWATER DRAINAGE EASEMENT DIMENSION PLAN

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CONSENT NUMBER
DA2019/1522

LEGEND	
PIPEWORK	
	RAINWATER DRAINAGE
	RAINWATER CHARGED
	STORMWATER DRAINAGE
	STORMWATER RISING MAIN
	SUBSOIL DRAINAGE
	BARRIER FENCE
	EXISTING PIPE
	EXISTING PIPE MADE REDUNDANT
	SEDIMENT FENCE LINE
	PROPERTY BOUNDARY
	SWALE
	DROPPER
	RISER
	TURBIDITY BARRIER
	DIRECTION OF FALL OR FLOW
	DOWN PIPE
	PLANTER BOX OUTLET
	RAIN WATER OUTLET / BALCONY OUTLET
	STORMWATER PIT (GRATE)
	STORMWATER PIT (RWO IN BASE)
	SEALED PIT COVER
	GULLY PIT
	REFLUX VALVE
	PIPE CONNECTION POINT
	PIPE PENETRATING
	PIPE NOT PENETRATING
	PUMP
	OVERLAND FLOW PATH
	CLEAR OUT
	TUNDISH
	TRENCH GRATE
	DOWNPIPE SPREADER
MISCELLANEOUS	
	SERVICE / SERVICE NUMBER
	PIPE SIZE
	FOR CONTINUATION REFER DRG No
	FOR SECTION VIEW REFER TO DRAWING
	AHD AUSTRALIAN HEIGHT DATUM
	AP ACCESS PANEL
	BG BOX GUTTER
	DP DOWNPIPE
	e EXISTING
	FFL FINISHED FLOOR LEVEL
	GIP GRATED INLET PIT
	HED HIGH EARLY DISCHARGE
	HFB HIGH FLOW BYPASS
	HL HIGH LEVEL IN CEILING
	HP HIGH POINT
	IL INVERT LEVEL
	INT INTERNAL
	KIP KERB INLET PIT
	O/F OVERFLOW
	OSD ON SITE DETENTION
	RHS RECTANGULAR HOLLOW SECTION
	RL RELATIVE LEVEL
	RWH RAINWATER HEAD
	RWT RAINWATER TANK
	SRL SLAB RELATIVE LEVEL
	SRZ STRUCTURAL ROOT ZONE
	TBA TO BE ADVISED
	TKL TOP KERB LEVEL
	TRZ TREE ROOT ZONE
	TWL TOP WATER LEVEL
	UNO UNLESS NOTED OTHERWISE



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STORMWATER SERVICES

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ARCHITECT	VIRGINIA KERRIDGE ARCHITECT 03/59 GREAT BUCKINGHAM STREET, REDFERN TEL: 02 3699 8527 EMAIL: info@vk.com.au

Project	NEW RESIDENCE 41 & 43 BEACH ROAD COLLARROY
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Title	STORMWATER DRAINAGE SERVICES COVERSHEET, NOTES AND DRAWING LEGEND
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2019H0087	SW(S4.55) 1.1 A	
SECTION 4.55 APPLICATION		

STORMWATER MANAGEMENT PLAN

PARTRIDGE HYDRAULIC SERVICES WERE ENGAGED TO CARRY OUT A STORMWATER MANAGEMENT PLAN FOR THE PROPOSED SECTION 4.55 APPLICATION FOR THE SITE AT 41-43 BEACH ROAD, COLLAROY. THE BELOW ADDRESSES THE MANAGEMENT OF STORMWATER WITHIN THE PROPOSED SITE BOUNDARIES AND ASSOCIATED WITH THE PROPOSED EXTENT OF WORKS FOR THE SECTION 4.55 PROPOSAL.

EXISTING SITE DETAILS

THE SUBJECT SITE CURRENTLY CONSTRUCTED UNDER DA APPROVAL NO. DA2019/1522.

EXISTING STORMWATER NETWORK AND DISCHARGE

THE SUBJECT SITE IS CURRENTLY BEING CONSTRUCTED UNDER DA APPROVAL NO. DA2019/1522. DISCHARGE FROM THE ROOF CATCHMENTS IS COLLECTED AND DIRECTED TO NEW RWT. OUTFLOW FROM THE GROUND LEVEL, AND BASEMENT, IS DRAINED VIA NEW ON-SITE PIPE NETWORK WITH INLET PITS AND DIRECTED TOWARDS THE DISCHARGE POINT AT THE SOUTH EAST CORNER OF THE SITE. FROM THERE STORMWATER IS DISCHARGED FROM THE SITE WITH NO LIMITS VIA A LEVEL SPREADER TO THE COUNCIL'S RESERVE.

PROPOSED STORMWATER NETWORK AND DISCHARGE UNDER SECTION 4.55 APPLICATION

NO MAJOR CHANGES TO THE ONSITE STORMWATER DRAINAGE NETWORK ARE PROPOSED. THE ROOF, GROUND AND BASEMENT LEVEL DRAINAGE APPROVED UNDER DA DA2019/1522 IS TO REMAIN AS PER CURRENT PRINCIPLES. SOME MINOR ADJUSTMENTS TO OVERALL GEOMETRY OF THE NETWORK WILL BE INTRODUCED TO SUIT DETAILED LANDSCAPE PROPOSAL.

SUBJECT OF THE PROPOSED SECTION 4.55 APPLICATION IS CHANGE OF METHOD FOR THE STORMWATER DISCHARGE FROM THE SITE. IT IS PROPOSED TO REPLACE THE LEVEL SPREADER SOLUTION WITH A PIPED CONNECTION TO THE COUNCIL'S ASSET RUNNING DOWNSTREAM FROM THE SUBJECT SITE (EXISTING 450MM DIA. SW PIPE WITHIN FOX PARK).

TO ALLOW FOR THE PROPOSED CONNECTION, DISCUSSION, AND COORDINATION WITH COUNCIL'S ASSETS DIVISION, AND DRAINAGE DIVISION, HAVE BEEN HELD. AS PER AVAILABLE EMAIL CORRESPONDENCE, APPROVAL IN PRINCIPLES HAVE BEEN GRANTED FOR THE REQUIRED EASEMENT AND NEW DRAINAGE LINE.

PROPOSED STORMWATER NETWORK AND DISCHARGE

NO CHANGES TO THE ON-SITE SW DRAINAGE NETWORK PRINCIPLES, AS APPROVED DA2019/1522, ARE PROPOSED. DISCHARGE FROM THE SITE TO BE VIA NEW PIPED CONNECTION TO THE COUNCIL'S ASSET RUNNING VIA FOX RESERVE TO THE SOUTH OF THE SUBJECT SITE.

STORMWATER QUANTITY MANAGEMENT

NO CHANGES TO PRINCIPLES OF THE STORMWATER QUANTITY MANAGEMENT, APPROVED UNDER DA2019/1522, ARE PROPOSED.

SITE AREA: 2,117.5m²
PRE-DEVELOPMENT CATCHMENT AREAS:

- IMPERMEABLE AREA: 1,085.3m²
- PERMEABLE AREA: 977.3m²
- POOL AREA (TO SEWER): 54.9m²

PRE-DEVELOPMENT DISCHARGE VOLUME (FOR 20-YEAR, 5 MIN STORM DURATION MIN):
Q = 96.2 L/s

POST-DEVELOPMENT CATCHMENT AREAS:

- IMPERMEABLE AREA: 942.4m²
- PERMEABLE AREA: 1,105.2m²
- POOL AREA (TO SEWER): 69.9m²

POST-DEVELOPMENT DISCHARGE VOLUME (FOR 20-YEAR, 5 MIN STORM DURATION):
Q = 91 L/s
PSD: 53L/s
MINIMUM ON-SITE DETENTION VOLUME REQUIRED: 21.0m³
ON-SITE DETENTION VOLUME PROVIDED: 24.0m³

STORMWATER QUALITY MANAGEMENT

NO CHANGES TO PRINCIPLES OF THE STORMWATER QUALITY MANAGEMENT, APPROVED UNDER DA2019/1522, ARE PROPOSED.

A TRASH SCREEN TO BE INSTALLED PROPOSED IN THE LAST PIT PRIOR DISCHARGE FROM THE SITE, TO PROVIDE A LEVEL OF TREATMENT TO STORMWATER IN ACCORDANCE WITH SECTION 2.10 OF THE MOSMAN COUNCIL 'POLICY FOR STORMWATER MANAGEMENT IN MOSMAN'.

OVERLAND FLOW PATHS

IF STORMS HIGHER THAN THE DESIGN STORM OCCUR, THE SITE IS GRADED TO ALLOW AN OVERLAND FLOW PATH TO PROTECT THE BUILDINGS. OVERLAND FLOWS WILL EXIT THE SITE VIA THE LOW POINT ALONG THE KERB LINE PARALLEL TO BALMORA AVENUE. NO DAMAGE TO THE NEIGHBOURING PROPERTIES WILL OCCUR.

COUNCIL DOCUMENTS REFERENCE

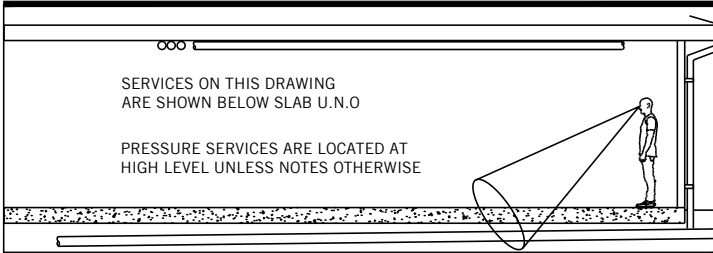
THE ABOVE ASSESSMENT HAS BEEN PREPARED AND BASED ON PUBLISHED TOPOGRAPHIC MAPS, PHYSICAL LAND SURVEY, HYDRAULIC AND HYDROLOGICAL CALCULATIONS, AVAILABLE AERIAL PHOTOGRAPHY OF THE SITE AND IN ACCORDANCE WITH RELEVANT AUSTRALIA STANDARDS AND MOSMAN DEVELOPMENT CONTROL PLANS BELOW:

- AS 3500 - PLUMBING AND DRAINAGE
- MOSMAN COUNCIL - POLICY FOR STORMWATER MANAGEMENT IN MOSMAN

GENERAL NOTES

- THIS IS A STORMWATER DRAINAGE PLAN ONLY, REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT INFORMATION.
- ALL STORMWATER RUNOFF FROM SURFACE, PITS, SUMPS AND UNDERGROUND PIPE NETWORK TO BE COLLECTED VIA ON-SITE DRAINAGE SYSTEM PRIOR TO DISCHARGE FROM THE SITE.
- ALL PIPES ARE TO BE 100DIA UPVC LAID AT 1.0% MIN GRADE. UPVC PIPES TO BE SOLVENT WELDED JOINTS U.N.O
- ALL PIPES ARE TO BE PROPRIETARY PRE-CAST ITEMS, COVER LEVELS TO MATCH U.N.O
- ALL GRATED DRAINS TO HAVE BASE GRADED 1.0% MIN WITH HEAVY DUTY GRATES.
- IT IS THE BUILDER'S RESPONSIBILITY TO LAY ALL PIPES IN ACCORDANCE WITH ALL RELEVANT AUTHORITY REQUIREMENTS (EG. COUNCIL, EPA, SYDNEY WATER).
- THE CONTRACTOR SHALL LOCATE EXISTING SERVICES ON SITE PRIOR TO CONSTRUCTION AND SHALL TAKE EXTREME CAUTION DURING CONSTRUCTION.
- ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH THE LOCAL AUTHORITY'S CIVIL SPECIFICATION AND STANDARDS TO THE SATISFACTION OF THE LOCAL AUTHORITY OR PRIVATE CERTIFYING AUTHORITY'S REPRESENTATIVE. ANY DISCREPANCY, VARIATION OR ADDITIONAL WORKS SHALL BE APPROVED BY THE BUILDER'S REPRESENTATIVE BEFORE COMMENCEMENT OF WORKS.
- THE LOCAL AUTHORITY OR PRIVATE CERTIFYING AUTHORITY'S INSPECTION OF WORKS SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE INSPECTOR'S INSPECTION SCHEDULE REQUIREMENTS AND ENSURE THAT EACH IDENTIFIED STAGE OF WORKS IN ACCORDINGLY INSPECTED.
- THESE DRAWINGS ARE DIAGRAMMATIC REPRESENTATION OF WORKS TO BE CARRIED OUT ONLY AND ARE NOT TO BE SCALED OFF.
- ALL LEVELS SHALL BE OBTAINED FROM ESTABLISHED BENCH MARKS ONLY. DATUM USED ON THESE DRAWINGS IN AUSTRALIA HEIGHT DATUM (AHD) UNLESS NOTED OTHERWISE.
- UTILITY INFORMATION SHOWN ON THE PLANS IS NOT INTENDED TO DEPICT MORE THAN THE PRESENCE OF ANY SERVICES. ACTUAL LOCATIONS SHOULD BE VERIFIED BY HAND EXCAVATION PRIOR TO CONSTRUCTION.
- EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PROVIDED WHERE SHOWN ON THE DRAWINGS, IN ACCORDANCE WITH THE SPECIFICATION AND THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (IF APPLICABLE).

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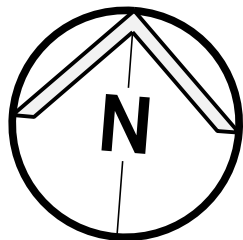
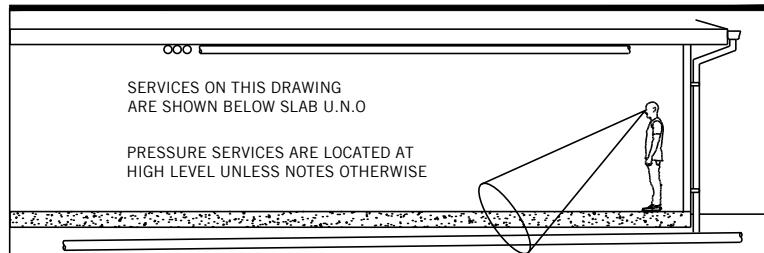
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DA2019/1522

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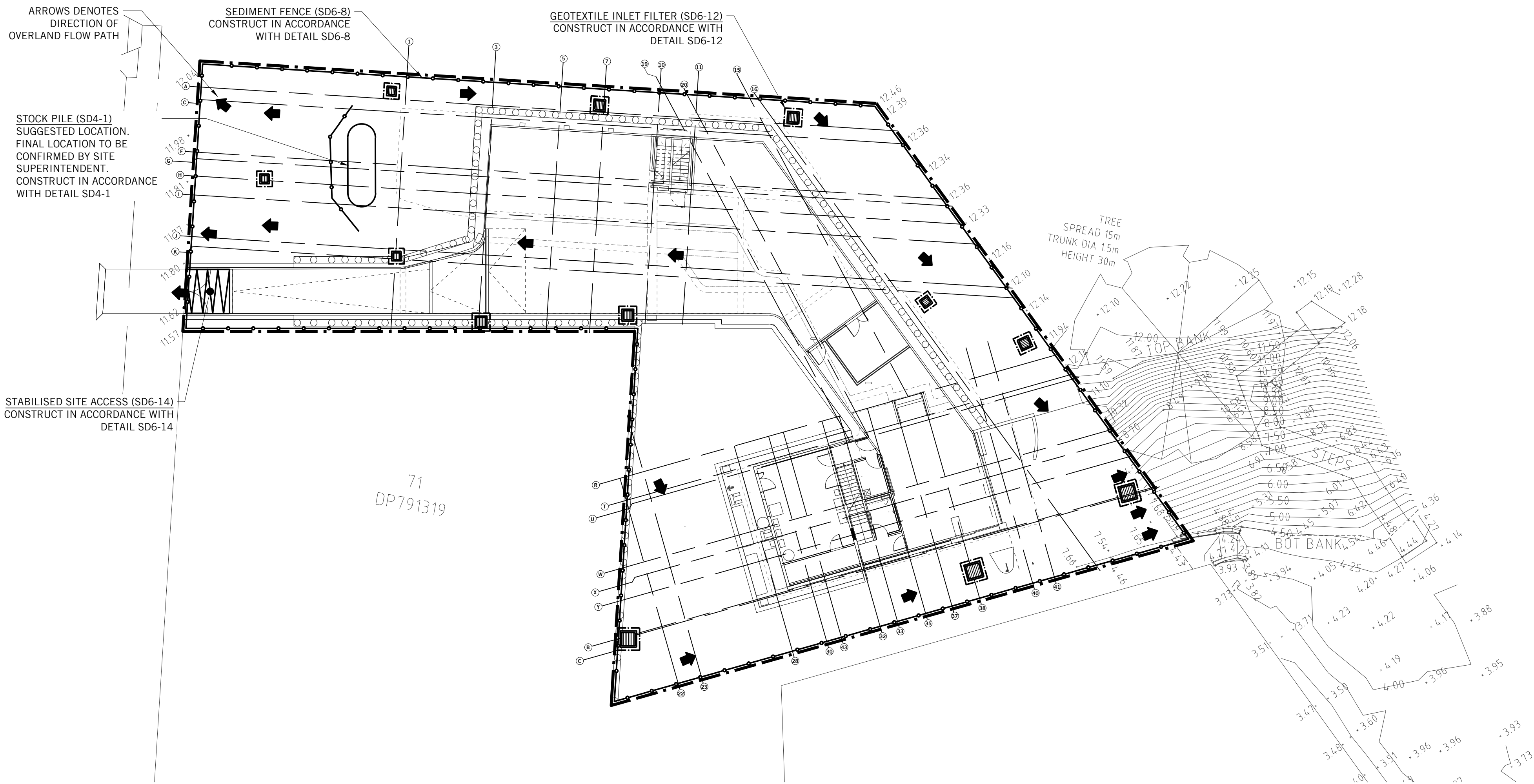


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ARCHITECT	VIRGINIA KERRIDGE ARCHITECT 03/59 GREAT BUCKINGHAM STREET, REDFERN TEL: 02 3699 8527 EMAIL: info@vk.com.au	
Project	NEW RESIDENCE 41 & 43 BEACH ROAD COLLARROY	
Title	STORMWATER MANAGEMENT PLAN & NOTES	
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SECTION 4.55 APPLICATION		

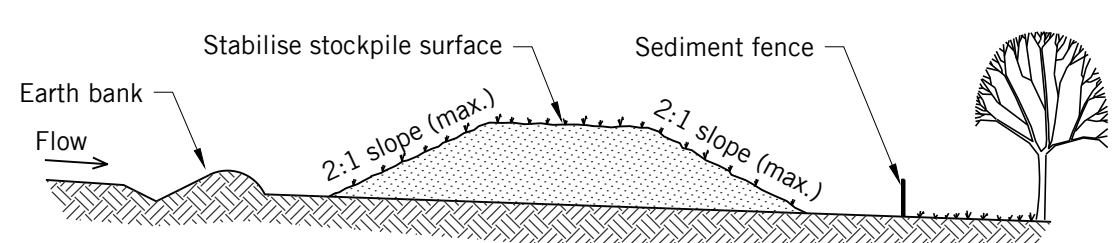


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EROSION AND SEDIMENT CONTROL PLAN

- MEASURES PROVIDED WILL BE TO THE SATISFACTION OF THE PRINCIPAL'S REPRESENTATIVE IN ACCORDANCE WITH THE LOCAL AND STATUTORY REQUIREMENTS UNLESS NOTED OTHERWISE. ALL WORKS SHALL BE ERCTED AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE 'BLUE BOOK'- MANAGING URBAN STORMWATER (MUS): SOILS AND CONSTRUCTION, LANDCOM (VOL 1) AND DECCW (VOL 2) AND COUNCIL'S DEVELOPMENT CONTROL PLAN (DCP).
- ALL EXCAVATION WORKS ARE TO BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, IF AVAILABLE, AND THE STRUCTURAL ENGINEER'S DRAWINGS.
- INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION WORKS.
- MESH AND GRAVEL INLET FILTERS (SD 6-12) TO BE INSTALLED UPSTREAM OF PROPOSED STORMWATER PITS AS WELL AS EXISTING STORMWATER PITS DOWNSTREAM OF DISTURBED AREAS.
- TOP SOIL WILL BE STRIPPED AND STOCKPILED (SD 4-1) FOR LATER USE IN LANDSCAPING.
- ALL STOCKPILES TO BE CLEAR FROM DRAINS, GUTTERS AND FOOTPATHS.
- TOP SOIL WILL BE RE SPREAD AND ALL DISTURBED AREAS WILL BE REHABILITATED WITHIN 20 WORKING DAYS OF THE COMPLETION OF WORKS.
- ALL SEDIMENT TO BE STORED AND COLLECTED BY A LIQUID WASTE COMPANY FOR DISPOSAL AT A LICENSED TREATMENT FACILITY.
- ROADS AND FOOTWAYS TO BE SWEEPED AT THE END OF THE DAY.
- ALL EROSION AND SEDIMENT CONTROLS WILL BE CHECKED AT LEAST WEEKLY AND AFTER RAINFALL EVENTS TO MAKE SURE THEY ARE MAINTAINED TO A FULLY FUNCTIONAL CONDITION.

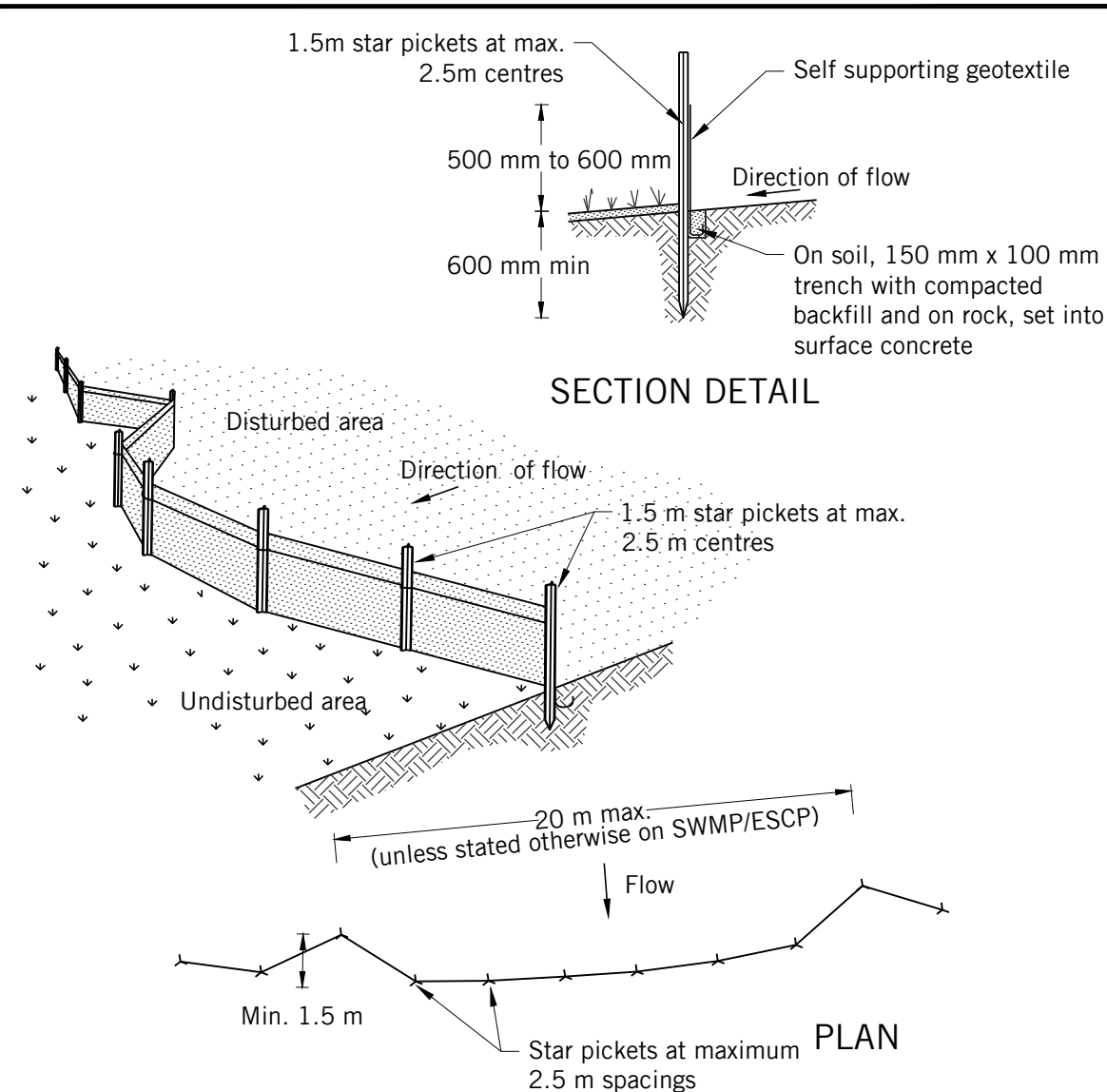


Construction Notes

- 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 in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
- Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

STOCKPILES

SD 4-1

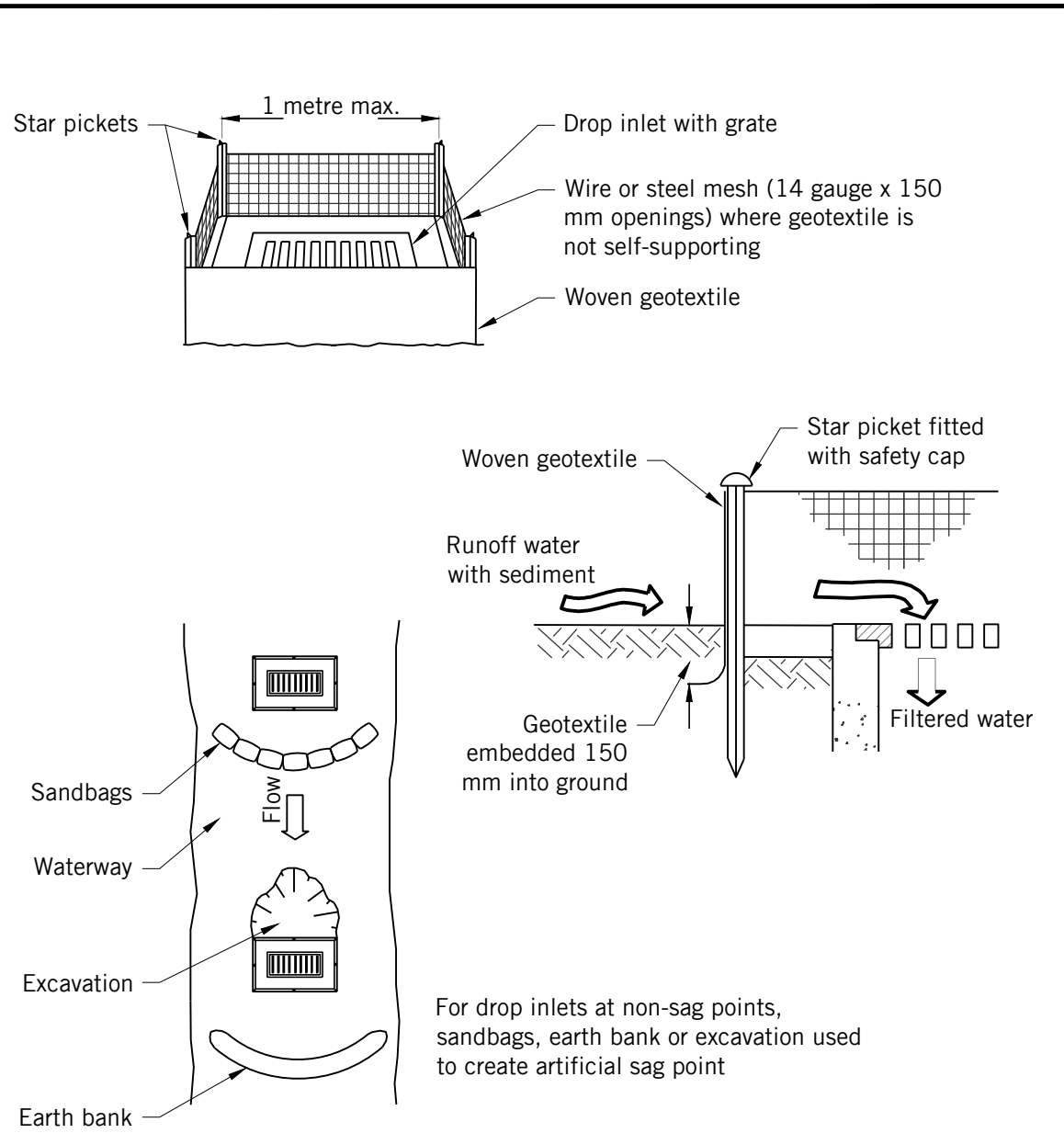


Construction Notes

- Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
- Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
- Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
- Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
- Join sections of fabric at a support post with a 150-mm overlap.
- Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

SEDIMENT FENCE

SD 6-8

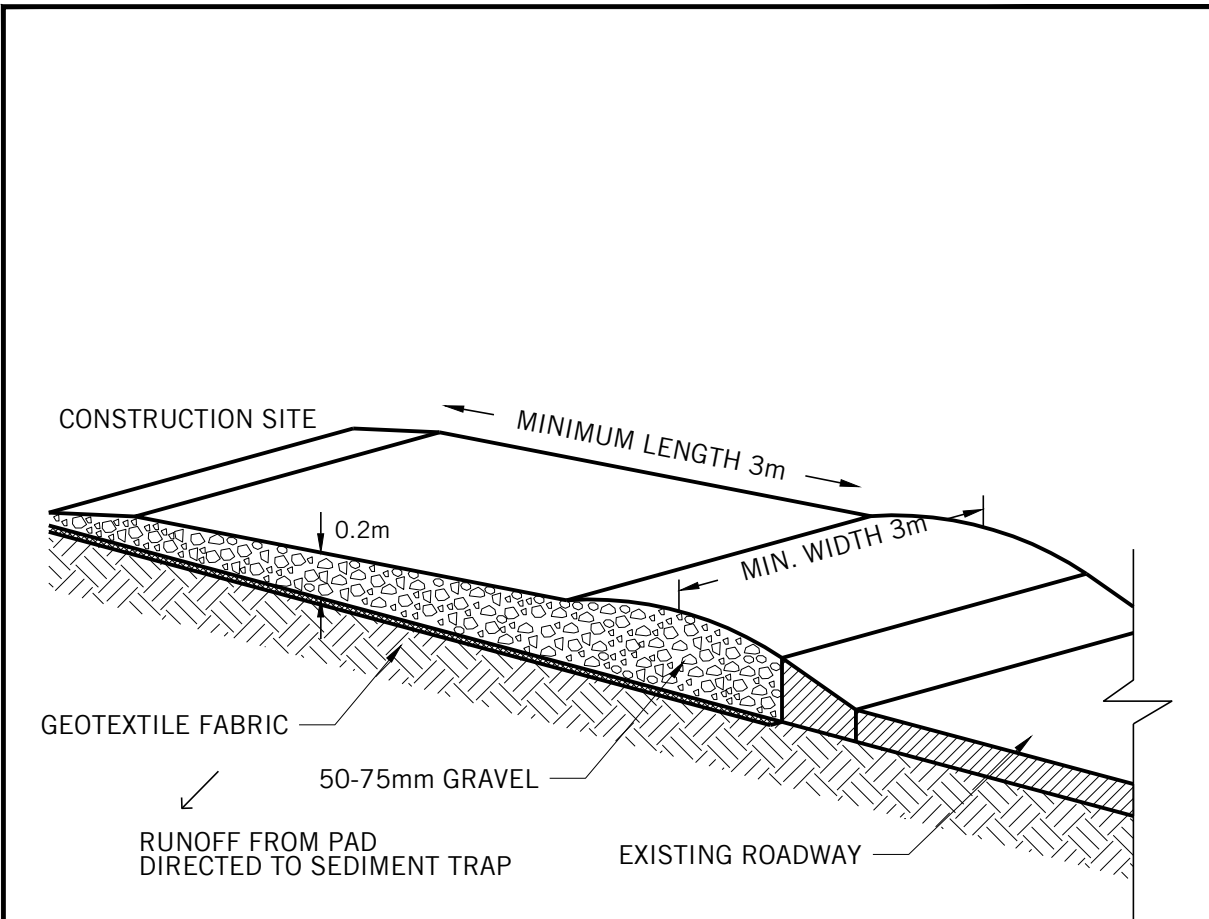


Construction Notes

- Fabricate a sediment barrier made from geotextile or straw bales.
- Follow Standard Drawing 6-7 and Standard Drawing 6-8 for installation procedures for the straw bales or geofabric. Reduce the picket spacing to 1 metre centres.
- In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
- Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

GEOTEXTILE INLET FILTER

SD 6-12



Construction Notes

- Strip the topsoil, level the site and compact the subgrade.
- Cover the area with needle-punched geotextile.
- Construct a 200 mm thick pad over the geotextile using road base or 30 mm aggregate.
- Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
- Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence.

STABILISED SITE ACCESS

SD 6-14

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Project

NEW RESIDENCE
41 & 43 BEACH ROAD
COLLAROY

Title

STORMWATER DRAINAGE SERVICES
SEDIMENT AND EROSION PLAN

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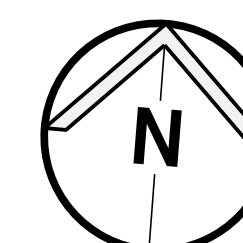
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2019H0087 SW(S4.55) 1.3 A

SECTION 4.55 APPLICATION

Diagram illustrating the location of pressure services relative to the slab U.N.O. A person is shown standing on the slab, with lines indicating the vertical position of the services.



NOTES

- 1) ALL DRAINAGE WORKS ARE TO BE IN ACCORDANCE WITH AS/NZS 3500 - STORMWATER DRAINAGE, WARRINGAH COUNCIL DEVELOPMENT CONTROL PLAN FOR ON-SITE STORMWATER MANAGEMENT AND THE LATEST BASIX CERTIFICATE.
- 2) SITE AREA = 1536m²
- 3) A SILT TRAP PIT IS TO BE INCORPORATED WITHIN THE DOWNSTREAM END OF THE EXISTING STORMWATER SYSTEM SERVING THE SITE IN ACCORDANCE WITH WARRINGAH COUNCIL REQUIREMENTS. THIS IS TO BE REGULARLY MAINTAINED AND CLEARED OF ALL DEBRIS.
- 4) IN ACCORDANCE WITH THE BASIX CERTIFICATE A RAINWATER TANK WITH A MIN CAPACITY OF 6000L IS PROPOSED. THIS IS TO COLLECT A MINIMUM ROOF AREA OF 370m².
- 5) ALL SUBSOIL DRAINAGE SHOWN ON PARTRIDGE PLANS ARE INDICATIVE ONLY. SUBSOIL DRAINAGE SYSTEM TO BE INSTALLED IN ACCORDANCE WITH LANDSCAPE ARCHITECT REQUIREMENTS AND DETAILS.

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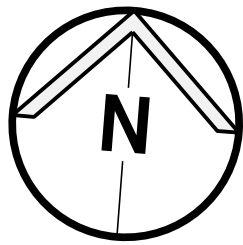
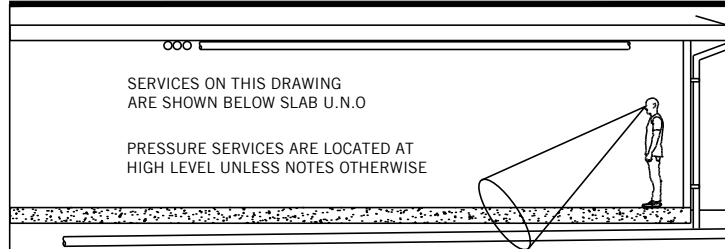
Project	<p>NEW RESIDENCE 41 & 43 BEACH ROAD COLLAROY</p>
Title	<p>STORMWATER DRAINAGE SERVICES GROUND FLOOR LAYOUT</p>

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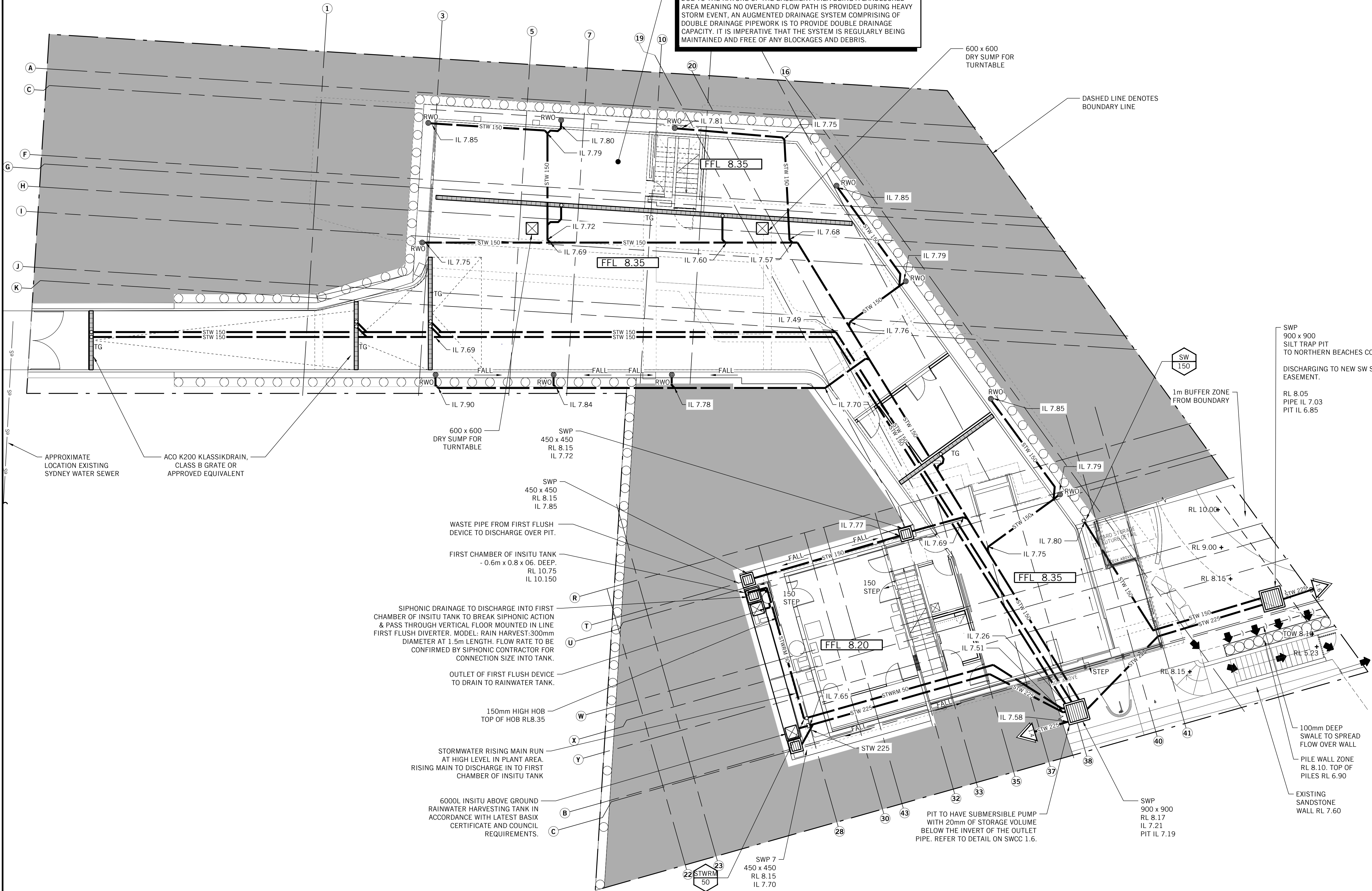
SECTION 4.55 APPLICATION

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NORTHERN BEACHES COUNCIL
APPROVED DEVELOPMENT
CONSENT NUMBER
DA2019/1522

IMPORTANT NOTE
DUE TO THE NATURE OF THE BASEMENT AREA BEING A LANDLOCKED AREA MEANING NO OVERLAND FLOW PATH IS PROVIDED DURING HEAVY STORM EVENT, AN AUGMENTED DRAINAGE SYSTEM COMPRISING OF DOUBLE DRAINAGE PIPEWORK IS TO PROVIDE DOUBLE DRAINAGE CAPACITY. IT IS IMPERATIVE THAT THE SYSTEM IS REGULARLY BEING MAINTAINED AND FREE OF ANY BLOCKAGES AND DEBRIS.



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JENNIFER STALEY

ARCHITECT

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Project

NEW RESIDENCE
41 & 43 BEACH ROAD
COLLARROY

Title

STORMWATER DRAINAGE SERVICES
BASEMENT FLOOR LAYOUT

ELECTRONIC SIGNATURE:

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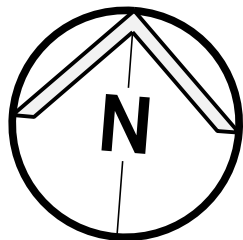
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Electronic Code	Signature Date	Designed
•		ES
Scale at A1	Date	Drawn
1:100	FEB 2023	NVH
Job No.	Drawing No.	Revision

2019H0087 SW(S4.55) 1.5 A

SECTION 4.55 APPLICATION

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NOTHERN BEACHES COUNCIL
APPROVED DEVELOPMENT
CONSENT NUMBER
DA2019/1522

NOTES

- WITH REFERENCE TO APPROVED DA DRAWINGS 2019H0087 SWDA1.1-1.5 UNDER DA2019/1522 AND CONSTRUCTION DRAWINGS 2019H0087 SWCC1.1-1.8 BY PARTRIDGE, THE CURRENT METHOD OF STORMWATER DISPOSAL IS VIA A DISPERSAL SYSTEM AND LEVEL SPREADER.

THE SECTION 4.55 IS PROPOSING TO AMEND CONDITION 9 OF THE DA APPROVAL, TO ALLOW FOR SW DISCHARGE FROM THE SITE VIA NEW PIPE CONNECTION DIRECTLY TO AN EXISTING COUNCIL PIT WITHIN THE PUBLIC RESERVE IN LIEU OF THE DISPERSAL SYSTEM.

A	ISSUED FOR \$4.55	NVH	ES	15.03.2023
Rev.	Issue / Amendment	By	App.	Date



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STORMWATER SERVICES

Client

RUSSELL STALEY
JENNIFER STALEY

ARCHITECT

VIRGINIA KERRIDGE ARCHITECT
03/59 GREAT BUCKINGHAM STREET, REDFERN
TEL: 02 3699 8527 EMAIL: info@vk.com.au

Project

NEW RESIDENCE
41 & 43 BEACH ROAD
COLLAROY

Title

STORMWATER DRAINAGE SERVICES
STORMWATER DISCHARGE PIPE
AND EASEMENT PLAN

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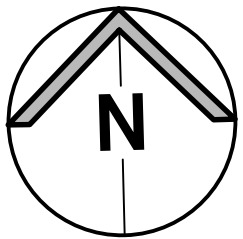
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Job No.	Drawing No.	Revision
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2019H0087 SW(S4.55) 1.6 A

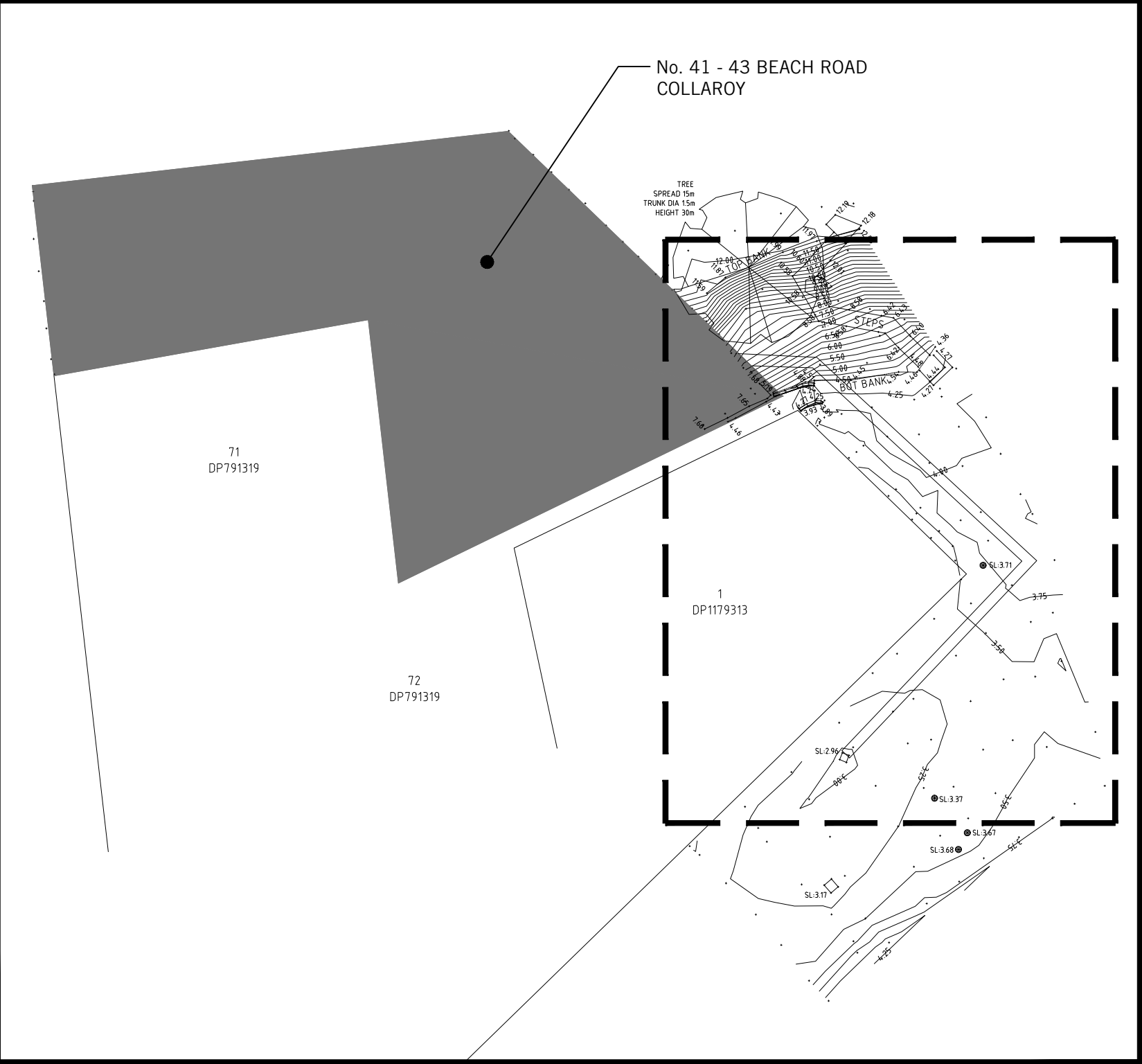
SECTION 4.55 APPLICATION



NOTHERN BEACHES COUNCIL
APPROVED. DEVELOPMENT
CONSENT NUMBER
DA2019/1522

KEY PLAN

SCALE 1:500



1	ISSUED FOR S4.55	NH	ES	15.03.2023
Rev.	Issue / Amendment	By	App.	Date



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Project

NEW RESIDENCE
41 & 43 BEACH ROAD
COLLAROY

Title

STORMWATER DRAINAGE SERVICES
EASEMENT DIMENSION PLAN

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Job No.	Drawing No.	Revision
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2019H0087 SW(S4.55)1.7	A	
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SECTION 4.55 APPLICATION

1
DP1179313

SETOUT POINT
BOUNDARY CORNER
X = 342983367.09
Y = 6265931606.88

PROPOSED NEW STORMWATER
DISCHARGE PIPE WITH ASSOCIATED
STORMWATER EASEMENT

SETOUT POINT
BOUNDARY CORNER
X = 343000891.61
Y = 6265914651.63

SWP
600 x 600
RL 3.80
IL 3.00

DISCHARGE TO
COLLAROY BAY

FOX PARK