

75 CHERYL CRESCENT, NEWPORT STORMWATER MANAGEMENT

GENERAL

- ANY DEVIATIONS FROM LEVELS AND DETAILS SHOWN WITHIN THIS PACKAGE TO BE CONSULTED WITH THE ENGINEER CONSULTANT PRIOR TO ON-SITE CHANGES BEING MADE.
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL COUNCIL ENGINEERING SPECIFICATIONS.
- FINAL LOCATION OF NEW DOWNPIPES TO BE DETERMINED BY BUILDER/ARCHITECT AT TIME OF CONSTRUCTION.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECTS AND OTHER CONSULTANT DRAWINGS. ANY DISCREPANCIES MUST BE REFERRED TO THE ENGINEER BEFORE PROCEEDING.
- INSPECTIONS BY THE CERTIFYING AUTHORITY SHALL BE CARRIED OUT FOR ALL THE CIVIL WORKS PRIOR TO RELEASE OF THE HOLD POINTS INCLUDING THE FOLLOWING STAGES:
 - PRIOR TO INSTALLATION OF EROSION AND SEDIMENT CONTROL STRUCTURES
 - FINAL INSPECTION AFTER ALL WORKS ARE COMPLETED AND 'WORK AS EXECUTED' PLANS HAVE BEEN SUBMITTED TO COUNCIL
- MAKE SMOOTH JOINTS WITH EXISTING WORKS.
- NO WORK TO BE CARRIED OUT ON COUNCIL PROPERTY OR ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER/S.
- VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
- ALL RUBBISH, BUILDINGS, SHEDS AND FENCES TO BE REMOVED TO SATISFACTION OF COUNCIL'S ENGINEER.
- THE CONTRACTOR SHALL OBTAIN ALL LEVELS FROM ESTABLISHED BENCH MARKS ONLY.

EXISTING UNDERGROUND SERVICES NOTES

CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

SITWORKS NOTES

- ORIGIN OF LEVELS:- REFER SURVEY NOTES.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO THE CIVIL CONSULTANT.
- MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- BASE AND SUB-BASE LAYERS ARE TO BE INSPECTED AND TESTED BY AN INDEPENDENT GEOTECHNICAL TESTING AUTHORITY TO LEVEL 1 RESPONSIBILITY AS DEFINED IN AS3798.
- ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS FORM 3051, COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ OF BASECOURSE MATERIAL PLACED.
- ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS FORM 3051, AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ OF SUB-BASE COURSE MATERIAL PLACED.
- SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
- WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

STORMWATER DRAINAGE NOTES

- ALL PIPES ON DRAWINGS TO BE MIN 1% GRADE UNLESS NOTED OTHERWISE.
- ALL DOWNPIPES TO BE 100Ø PVC UNLESS NOTED OTHERWISE.
- PIPES 375 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
- PIPES 300 DIA AND LESS SHALL BE DWV GRADE (CLASS S8) uPVC WITH SOLVENT WELDED JOINTS.
- EQUIVALENT STRENGTH FRC PIPES MAY BE USED.
- ALL PIPES ARE TO BE UNIFORMLY SUPPORTED ALONG THE LENGTH OF THE BARREL BY SUITABLE FILL MATERIAL. REFER TO BEDDING SUPPORT TYPE.
- PIPES WITH SOCKETS SHALL BE LAID IN BEDDING WHERE SUITABLE RECESSES HAVE BEEN PROVIDED TO ENSURE PIPES DO NOT BEAR ON THEIR SOCKETS.
- ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
- PIPES TO BE INSTALLED TO TYPE HS1 SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 (OR A DENSITY INDEX OF NOT LESS THAN 75).
- REFER TO AS/NRS 3725:2007 TABLE B1 FOR REQUIRED FILL DEPTHS ABOVE PIPE BARREL PRIOR TO USE OF COMPACTION MACHINERY OR TRAVERSING OF PIPES BY GENERAL SITE EQUIPMENT.
- WHERE WORKING METHODS REQUIRE HIGHER CLASS PIPE, THE CONTRACTOR SHALL REFER TO AS 3725 (2007) TO DETERMINE THE APPROPRIATE PIPE CLASS.
- ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (2018) AND AS/NZS 3500 3.2 (2018).
- ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- ALL BOX CULVERTS SHALL BE STRUCTURALLY DESIGNED BY THE MANUFACTURER AND DELIVERED TO SITE AS FIT FOR PURPOSE.
- AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

WARNING
BWARE OF UNDERGROUND SERVICES
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
www.1100.com.au

TABLE 7.1
MINIMUM PIPE COVER
(from finished surface to top of pipe)

| Location | millimetres | |
|--|---|----------------------------|
| | Cast iron, ductile iron, galvanized steel | Other authorized* products |
| Minimum cover | | |
| 1. Not subject to vehicular loading: | | |
| (a) without pavement— | | |
| (i) for single dwellings | Nil | 100 |
| (ii) for other than Item (i) | Nil | 300 |
| (b) with pavement of brick or unreinforced concrete | Nil† | 50† |
| 2. Subject to vehicular loading: | | |
| (a) other than roads— | | |
| (i) without pavement | 300 | 450 |
| (ii) with pavement of— | | |
| (A) reinforced concrete for heavy vehicular loading | Nil† | 100† |
| (B) brick or unreinforced concrete for light vehicular loading | Nil† | 75† |
| (b) roads— | | |
| (i) sealed | 300 | 500‡ |
| (ii) unsealed | 300 | 500‡ |
| 3. Subject to construction equipment loading or in embankment conditions | 300 | 500‡ |

* Includes overlay above the top of the pipe of not less than 50 mm thick.
† Below the underside of the pavement.
‡ Subject to compliance with AS 1762, AS 2033, AS/NZS 2566.1, AS 3725 or AS 4060.

AS3500.3

MINIMUM GRADIENT OF SITE STORMWATER DRAINS

| Nominal size | Minimum gradient | | Nominal size | Minimum gradient | |
|--------------|------------------|-------|--------------|------------------|-------|
| | DN | DN | | DN | DN |
| 90 | 1:100 | 1:90 | 225 | 1:200 | 1:350 |
| 100 | 1:100 | 1:120 | 300 | 1:250 | 1:350 |
| 150 | 1:100 | 1:200 | 375 | 1:300 | 1:350 |

AS3500.3

MINIMUM INTERNAL DIMENSIONS FOR STORMWATER AND INLET PITS

| Depth to invert of outlet | Minimum internal dimensions mm | | |
|---------------------------|--------------------------------|--------|----------|
| | Rectangular | | Circular |
| | Width | Length | |
| ≤600 | 450 | 450 | 600 |
| >600 ≤900 | 600 | 600 | 900 |
| >900 ≤1200 | 600 | 900 | 1 000 |
| > 1 200 | 900 | 900 | 1 000 |

AS3500.3

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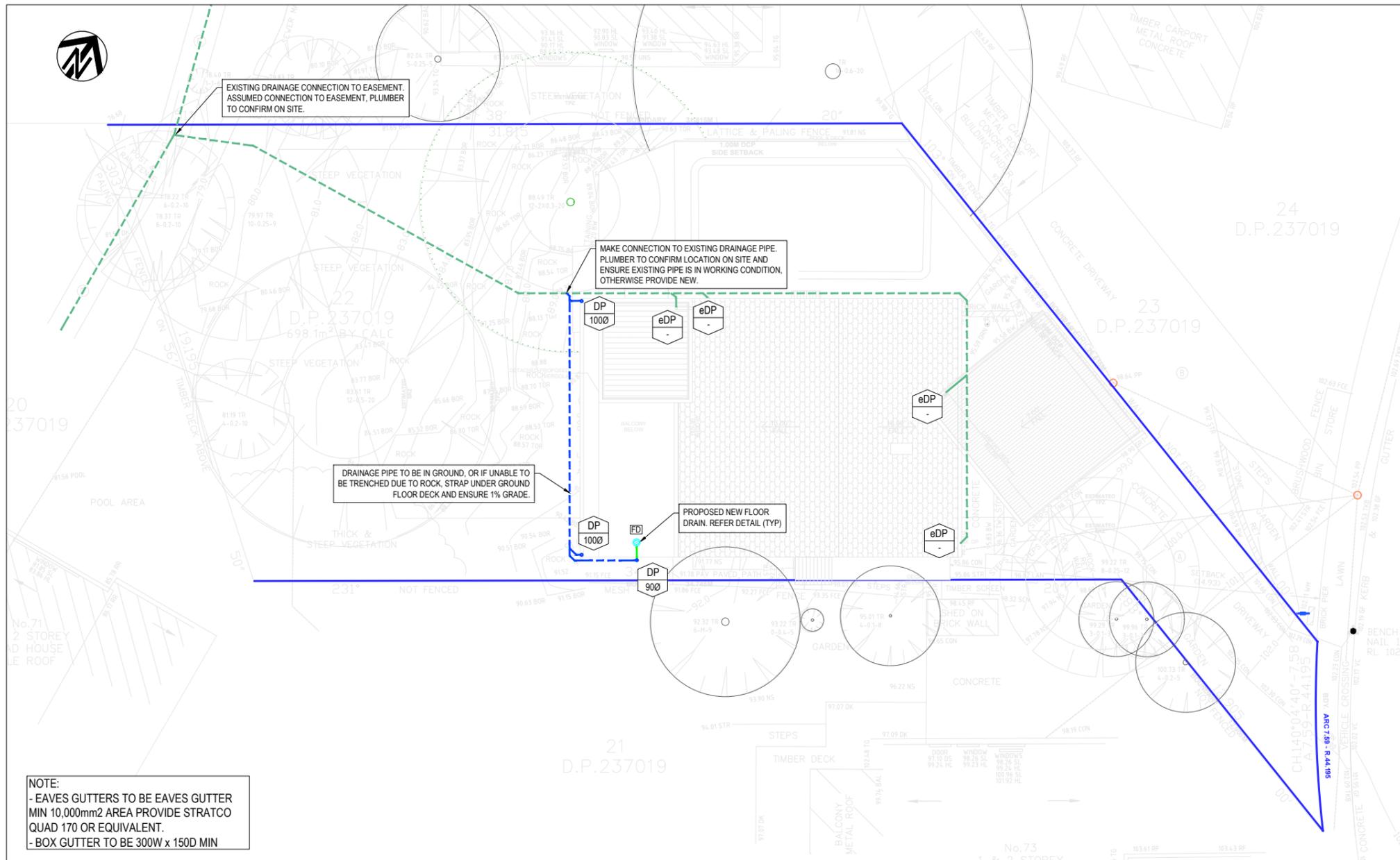
| Rev. | Description | By. | App. | Date |
|------|---------------|------|------|------------|
| A | ISSUED FOR DA | M.A. | M.A. | 07.02.2025 |



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|---------|-----------------------------|
| Client | ALAN KENT |
| Project | 75 CHERYL CRESCENT, NEWPORT |

| | |
|----------------|--------------|
| Title | COVER SHEET |
| ISSUED FOR | FOR APPROVAL |
| Project Number | 25 H 014 |

| | | | |
|-------------|-------|-------|------|
| Design | M.A. | Drawn | M.A. |
| Drawing NO. | SW 00 | | |



NOTE:
 - EAVES GUTTERS TO BE EAVES GUTTER MIN 10,000mm² AREA PROVIDE STRATCO QUAD 170 OR EQUIVALENT.
 - BOX GUTTER TO BE 300W x 150D MIN

SITE - STORMWATER PLAN
 SCALE 1:100

LEGEND

- EXISTING DRAINAGE PIPE (INDICATIVE)
- GRAVITY PIPE (TO BE Ø100 @ 1% MIN UNO)
- IN SLAB/SUSPENDED PIPE (TO BE Ø60 @ 1% MIN UNO)
- DOWNPIPE SIZE
- FLOOR DRAIN OUTLET

DESIGN SUMMARY

COUNCIL AREA:
 NORTHERN BEACHES COUNCIL

OSD REQUIREMENT:
 NO OSD REQUIRED, <50m² ADDITIONAL IMPERVIOUS AREA

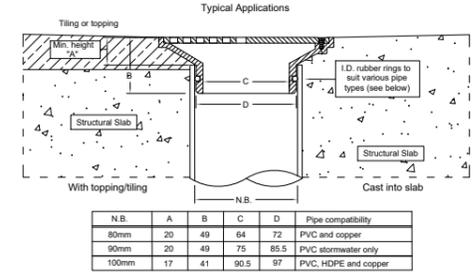
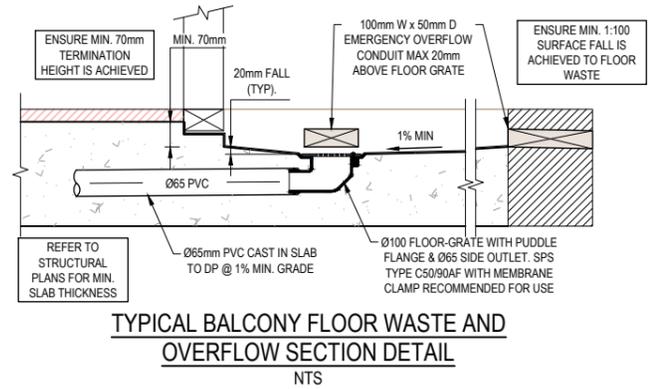
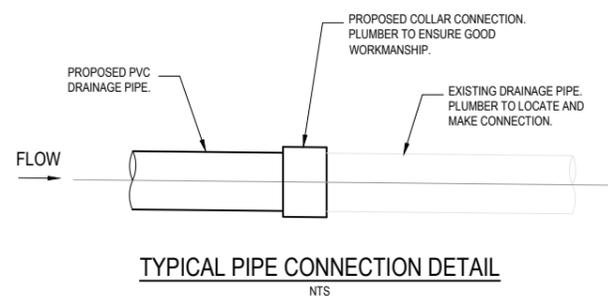
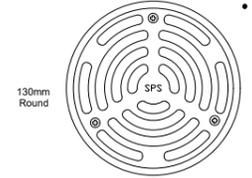
LEGAL POINT OF DISCHARGE:
 DISCHARGE VIA EXISTING DRAINAGE PIPELINE TO DRAINAGE EASEMENT

SPS 130mm Round Push-in Floor Drain

Specification codes:
 R130S0SR4 (80mm - polished 304SS)
 R130B0SR (80mm - satin 316SS)
 R130B5SR (90mm - satin 316SS)
 R130SR4 (100mm - polished 304SS)
 R130SR (100mm - satin 316SS)

80mm outlet
 90mm outlet
 100mm outlet

- Round grate available in 304 or 316 Stainless Steel.
- O-ring spigot pushes into pipe. See below for specific size & material compatibility.



| N.B. | A | B | C | D | Pipe compatibility |
|-------|----|----|------|------|----------------------|
| 80mm | 20 | 49 | 64 | 72 | PVC and copper |
| 90mm | 20 | 49 | 75 | 85.5 | PVC stormwater only |
| 100mm | 17 | 41 | 90.5 | 97 | PVC, HDPE and copper |

Speciality Plumbing Supplies Pty Ltd
 Tel: (02) 9417 1900 Fax: (02) 9417 0108 E-mail: info@spsdrains.com.au

FLOOR DRAIN (FD) DETAIL
 NTS

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Project 75 CHERYL CRESCENT NEWPORT

Title STORMWATER PLAN
ISSUED FOR FOR APPROVAL
Project Number 25 H 014

Design M.A.
Drawn M.A.
Drawing NO. SW 01

