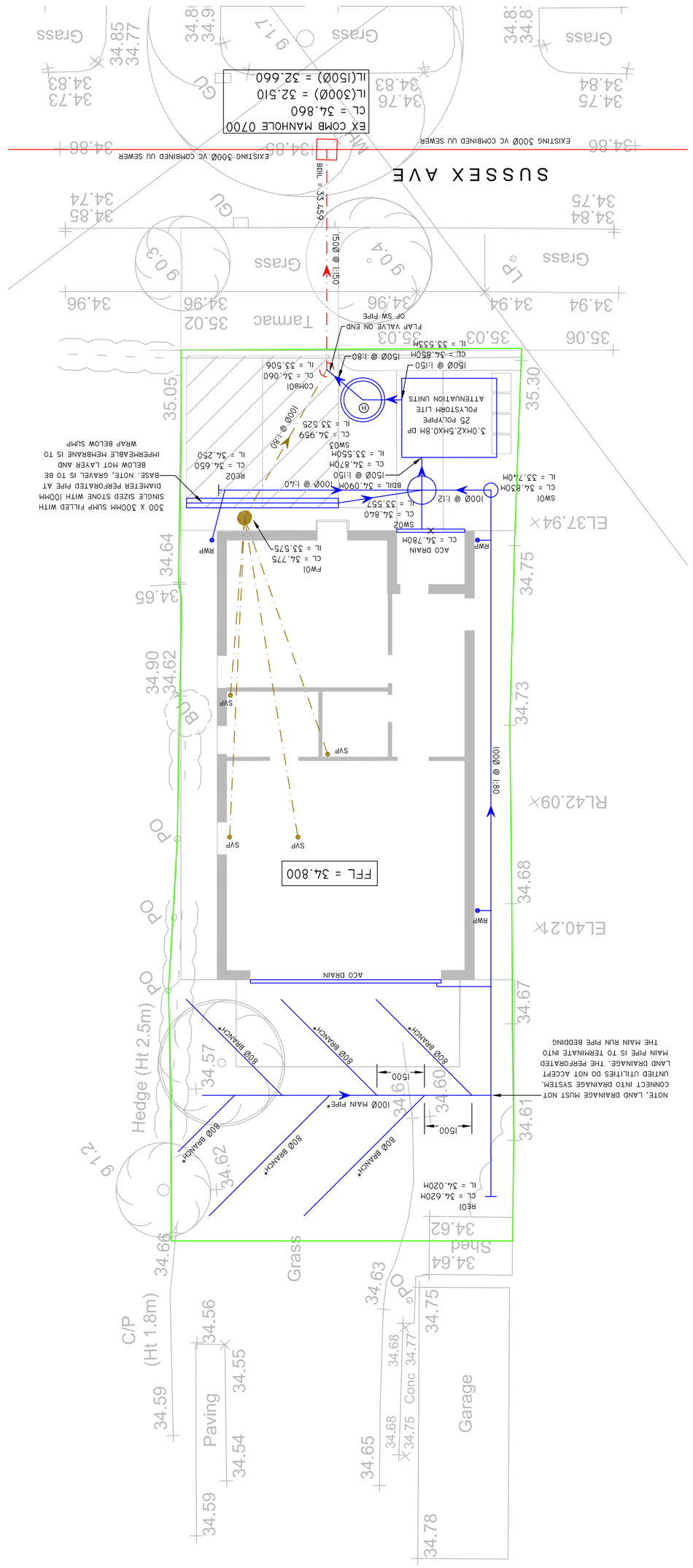
PROPOSED DRAINAGE LAYOUT
1:100 @ A1
1:200 @ A3



ALL MANHOLES TO BE WAVIN RANGE 450 WITH THE EXCEPTION OF:
SW02 - 900Ø PRECAST CONCRETE WITH 325MM SUMP
SW03 - 1200Ø WITH 265MM SUMP AND HYDROBRAKE

DENOTES PERMEABLE RESIN GRAVEL FINISH BY ARCHITECT.

ALL LEVELS TO BE CONFIRMED BY ARCHITECT PRIOR TO COMMENCEMENT OF WORKS

ALL LEVELS TO BE CONFIRMED BY LOCAL PLANNING AUTHORITY PRIOR TO COMMENCEMENT OF WORKS

RE DENOTES RODDING EYE

ALL PLOT DRAINAGE TO BE CONFIRMED.

ALL LEVELS TO BE CONFIRMED BY ARCHITECT PRIOR TO COMMENCEMENT OF WORKS

HYDROBRAKE SPECIFICATION.
UNIT REFERENCE: MD-SHE-0049-1000-0800-1000
MAX PASS FORWARD FLOW: 1.0L/S
DESIGN HEAD: 0.8M
OUTLET DIAMETER: 49MM
MINIMUM MANHOLE SUMP DEPTH 265MM

CONTRACTOR TO ALLOW FOR REINSTATEMENT OF SUSSEX AVENUE TO LOCAL COUNCILS ADOPTABLE SPECIFICATION. CONTRACTOR TO ORGANIZE ALL NECESSARY ROAD CLOSURE APPLICATIONS

ALL TEMPORARY WORKS FOR CONSTRUCTION OF DRAINAGE TO CONTRACTORS DESIGN AND DETAILS

NOTE CONTRACTOR TO ALLOW FOR REMOVAL OF EXISTING PRIVATE DRAINAGE AS REQUIRED.

POSITION OF RWP'S ARE TO BE CONFIRMED BY THE ARCHITECT - ASSUMED CURRENTLY

DRAINAGE DESIGNED FOR THE FOLLOWING:
| IN | YEAR STORM - NO SURCHARING
| IN 30 YEAR STORM - NO FLOODING
| IN 100 YEAR + 40% STORM - NO FLOODING

PRELIMINARY

NOTE : POLYSTORM UNITS TO BE ROTATED TO ENABLE SPIGOT FIXING AT ALL SIDES AS REQUIRED.

- DENOTES ADOPTED COMBINED WATER MANHOLE
- DENOTES PRIVATE COMBINED WATER DRAIN
- DENOTES PRIVATE NEW COMBINED WATER MANHOLE
- DENOTES PRIVATE NEW FOUL WATER MANHOLE
- DENOTES PRIVATE FOUL WATER DRAIN
- DENOTES PRIVATE SURFACE WATER MANHOLE
- DENOTES PRIVATE SURFACE WATER DRAIN

Ø0* DENOTES 80MM DIAMETER PERFORATED PIPE
100Ø* DENOTES 100MM DIAMETER PERFORATED PIPE

NOTE : LAND DRAINS TO CONNECT INTO PIPE SURROUND OF DRAINAGE RUNS AND NOT INTO THE DRAINS THEMSELVES

NOTE DIMENSIONS ABOVE TOP OF 2-5MM GRIT ARE INDICATIVE MINIMUMS AND TO BE AS REQUIRED ON SITE

MINIMUM 2NO 80Ø* PIPES ON EACH SIDE OF MAIN RUN PER GARDEN. MAXIMUM SPACING BETWEEN 80Ø* PIPES IS TO BE 5.0M

ALL TEMPORARY RUN UNDER BUILDINGS TO USE ROCKER PIPE DETAIL WHEN PASSING THROUGH MASONRY. IF PIPES PASS THROUGH CONCRETE FOUNDATIONS PROVISIONS TO BE MADE FOR 200Ø SLEEVES TO BE CAST INTO FOOTINGS TO ALLOW FOR BUILDING SETTLEMENT

NOTE : DRAINS THAT RUN UNDER BUILDINGS TO USE ROCKER PIPE DETAIL WHEN PASSING THROUGH MASONRY. IF PIPES PASS THROUGH CONCRETE FOUNDATIONS PROVISIONS TO BE MADE FOR 200Ø SLEEVES TO BE CAST INTO FOOTINGS TO ALLOW FOR BUILDING SETTLEMENT

SCHEME BASED ON ALLOWABLE DISCHARGE OF 1.0L/S
GREENFIELD SITE RATES AS FOLLOWS
| IN | YEAR : 0 L/S
1:30 YEAR : 0.1L/S
| IN 100 YEAR : 0.1L/S
THEREFORE FLOW LIMITED TO 1 L/S TO PREVENT HYDROBRAKE BLOCKAGE

THIS SCHEME IS TO BE CONSIDERED PRELIMINARY UNTIL SUCH TIME AS THE LOCAL COUNCIL (LLFA) AND UNITED UTILITIES GIVE TECHNICAL APPROVAL. ANY WORKS, OR ORDERING OF MATERIALS, PRIOR TO APPROVALS FROM THE ABOVE MENTIONED BODIES IS DONE SO AT THE CONTRACTORS RISK IN ITS ENTIRETY. BMC WILL ACCEPT NO RESPONSIBILITY FOR ANY ABORTIVE WORKS / MATERIAL COSTS.

HEALTH, SAFETY AND ENVIRONMENT

IT IS THE RESPONSIBILITY OF THE CLIENT TO ENSURE THAT THOSE UNDERTAKING THE WORKS ARE COMPETENT AND EXPERIENCED IN THE TYPE OF WORKS UNDERTAKEN.

IN ADDITION TO THE HAZARDS USUALLY ASSOCIATED WITH THE TYPE OF WORKS DETAILED IN THIS DRAWING, THE FOLLOWING SPECIFIED HAZARDS HAVE BEEN IDENTIFIED THROUGH DESIGN RISK ASSESSMENT. THE PLANNING AND EXECUTION OF THESE WORKS SHOULD TAKE INTO ACCOUNT ALL USUAL AND SPECIFIC HAZARDS.

HAZARDS SHOULD ALSO BE TAKEN INTO ACCOUNT IN THE MAINTENANCE, DECOMMISSIONING AND DEMOLITION OF THE WORKS.

- LIVE SERVICES MAY BE PRESENT ON SITE
- DEEP EXCAVATIONS NECESSARY
- GROUND CONDITIONS MAY BE UNSUITABLE DURING EXCAVATION
- BELOW GROUND OBSTRUCTIONS FROM PREVIOUS BUILDINGS
- WORK IN / ADJACENT TO LIVE HIGHWAY

PUBLIC OR PRIVATE UTILITY NOTES

THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO VERIFY LOCATION AND EXTENT OF THEIR APPARATUS AND HAVE IT MARKED OUT ON SITE.

TRIAL HOLES SHALL BE UNDERTAKEN BY HAND TO LOCATE ANY BURIED APPARATUS IF EXCAVATION WORKS OR LEVEL REDUCTIONS ARE TO BE UNDERTAKEN IN THE GENERAL AREA.

CONTRACTORS OWN RISK ASSESSMENTS AND SAFE METHODS OF WORKING ADJACENT TO UTILITIES SHALL BE EMPLOYED AT EVERY STAGE OF THE WORK.

NO RESPONSIBILITY AS TO THE ACCURACY OF THIS PLAN IS GIVEN BY BELL MUNRO CONSULTING LIMITED AND NO LIABILITY WHAT SO EVER IS ACCEPTED BY THE COMPANY FOR THE USE OF THE INFORMATION ON THIS PLAN. IT IS INTENDED FOR GENERAL REFERENCE ONLY.

CONTRACTOR SHALL UPDATE THIS PLAN UP WITH SITE INFORMATION WHEN APPARATUS CAN BE ACCURATELY LOCATED ON SITE AND RETURNED TO BELL MUNRO CONSULTING LIMITED FOR THE DRAWING TO BE UPDATED AND RE-ISSUED.

NOTES:

1. THIS DRAWING IS COPYRIGHT AND THE PROPERTY OF BELL MUNRO CONSULTING LTD. THE DRAWING MUST NOT BE REPRODUCED IN PART OR IN WHOLE WITHOUT PRIOR WRITTEN AUTHORITY.
2. THIS DRAWING MUST NOT BE SCALED BY EITHER CONTRACTORS OR OTHER CONSULTANTS ANY DIMENSIONAL OR SETTING - OUT DISCREPANCIES ARE TO BE REPORTED TO BELL MUNRO CONSULTING PRIOR TO CONSTRUCTION / FABRICATION COMMENCING.
3. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE RELEVANT BMC SPECIFICATIONS TOGETHER WITH THE APPROPRIATE ARCHITECTS AND SERVICES CONSULTANTS DRAWINGS AND SPECIFICATIONS.
4. ALL EXISTING DRAINAGE TO BE CONFIRMED PRIOR TO CONSTRUCTION COMMENCING.
5. ALL NEW PIPEWORK TO BE WAVIN OSMADRAIN OR WAVIN ULTRARIB UPVC UNLESS NOTED OTHERWISE.
6. ALL PIPEWORK AT COVER LEVELS LESS THAN 900MM IN TRAFFICKED AREAS AND 450MM IN OTHER AREAS SHALL BE ENCASED IN CONCRETE (CLASS Z BEDDING).
7. ALL OTHER PIPEWORK TO BE IN CLASS S BEDDING.
8. PIPEWORK PASSING THROUGH BUILDING WALLS SHALL BE FITTED WITH ROCKER PIPES AS PER STANDARD DETAIL.
9. ALL EXTERNAL MANHOLE COVERS TO BE TO EN124:1994 - TRAFFICKED AREAS GRADE D400 AND OTHER AREAS GRADE A15.
10. ANY UNLABELLED FOUL BRANCH PIPEWORK TO BE 100Ø PIPEWORK AT MINIMUM 1:40 FALL (UNDER BUILDING).
11. ANY UNLABELLED STORM WATER PIPEWORK TO BE 100Ø AT MINIMUM 1:80 FALL.
12. ALL RWP AND THRESHOLD DRAIN LOCATIONS AND NUMBERS ARE TO BE CONFIRMED BY ARCHITECT PRIOR TO COMMENCING CONSTRUCTION.
13. EXACT SVP AND RWP POSITIONS TO BE CONFIRMED BY ARCHITECT PRIOR TO COMMENCEMENT OF WORKS ON SITE.
14. EXISTING FLOWS IN WATERCOURSES, SEWERS AND LAND DRAINS SHALL BE MAINTAINED AT ALL TIMES
15. ALL GULLY STEMS TO BE 150MM@

AM	CM	SHOWN	07.21
DRAWN BY:	CHECKED BY:	SCALE:	DATE:

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REV.	COMMENTS	DATE	BY
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BMC

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PROJECT: LAND BEHIND 10 CRANMER, DIDSBURY

TITLE: PROPOSED DRAINAGE LAYOUT