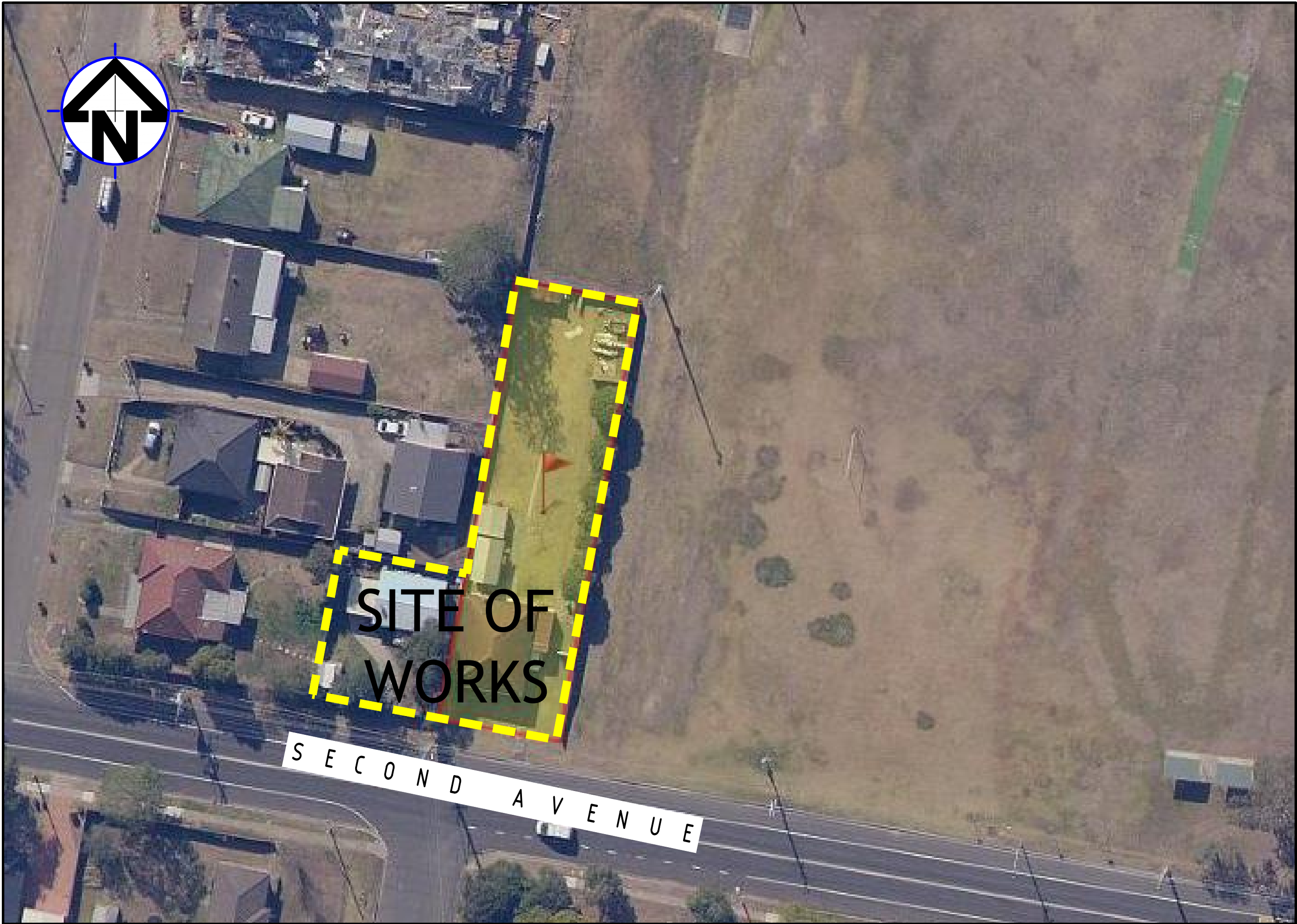


PROPOSED RESIDENTIAL DEVELOPMENT

23 SECOND AVENUE, KINGSWOOD

STORMWATER CONCEPT DESIGN



| DRAWINGS LIST | | | |
|---------------|---------|--|-----|
| SHEET No. | DWG No. | TITLE | REV |
| 1 | SW100 | COVER SHEET | A |
| 2 | SW110 | STORMWATER CONCEPT DESIGN - SITE PLAN | A |
| 3 | SW200 | STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN - SHEET 1 OF 2 | A |
| 4 | SW201 | STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN - SHEET 2 OF 2 | A |
| 5 | SW300 | STORMWATER CONCEPT DESIGN - DETAILS SHEET | A |
| 6 | SW400 | EROSION AND SEDIMENT CONTROL - PLAN AND DETAILS | A |
| 7 | SW500 | MUSIC CATCHMENT PLAN | A |

LOCALITY PLAN
NOT TO SCALE
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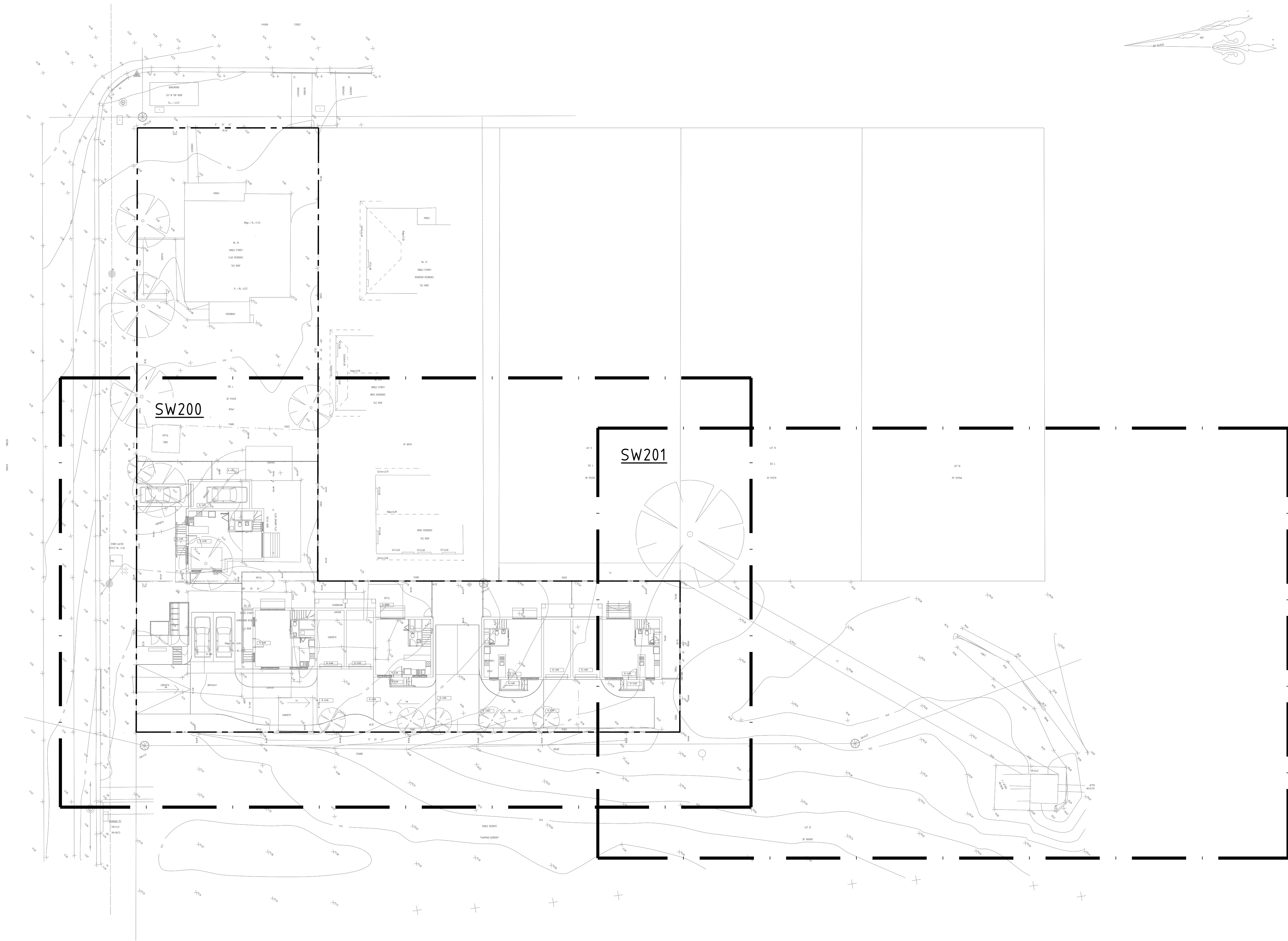


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Email: office@sgce.com.au
Web: www.sgce.com.au



LEGEND:

— — — — — DENOTES SITE SHEET BREAKUP & EXTENT OF PLANS



| Reference Coordination Drawing | | | | |
|--------------------------------|--------------------------|------|------|--|
| Discipline | Drawing Title and Number | Date | Rev. | |
| ARCH | | | | |
| ARCH | | | | |
| STRUCT | | | | |
| MECH | | | | |
| ELEC | | | | |
| HYD | | | | |
| FIRE | | | | |
| LANDS | | | | |
| CIVIL | | | | |
| SURVEY | | | | |

| Issuer internal sequence and revision history | | | | |
|---|---------------------------|----------------------------|----------|----------------|
| 1-preliminary | 2-development application | 3-construction certificate | 4-tender | 5-construction |
| 6-other | | | | |

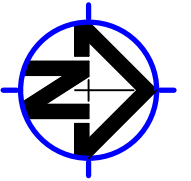
| | | | | |
|-------|---------------------|----|----------|--------|
| Issue | Last revision title | by | Date | Status |
| A | ISSUED FOR DA | RP | 09.10.20 | 1 |
| P1 | PRELIMINARY ISSUE | RP | 02.10.20 | 1 |

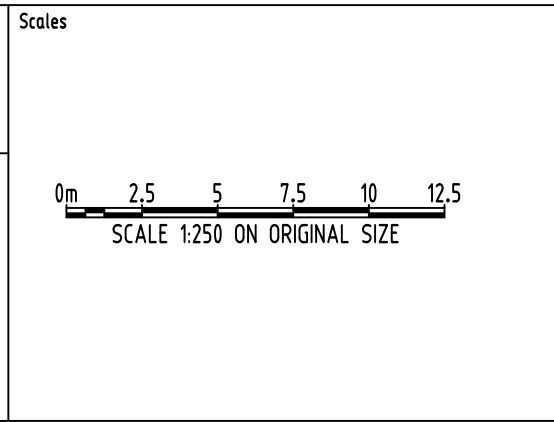
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Chartered Professional Engineer
MEMBER

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| CHECKED | SH | DATE | 09.10.20 |
| DESIGNED | RP | DATE | 09.10.20 |
| VERIFIED | SH | DATE | 09.10.20 |
| APPROVED | SH | DATE | 09.10.20 |

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CLIENT

 **MORSON GROUP**

ARCHITECT

 **MORSON GROUP**

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Engineering Value

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A.B.N. 21 118 222 530

PROJECT

PROPOSED RESIDENTIAL DEVELOPMENT
23 SECOND AVENUE,
KINGSWOOD

| | | | |
|------|--------|--------|--------------------------|
| Grid | Datum | Sheet | Scale (at original size) |
| - | A.H.D. | 2 OF 7 | 1:250 @ A1 |

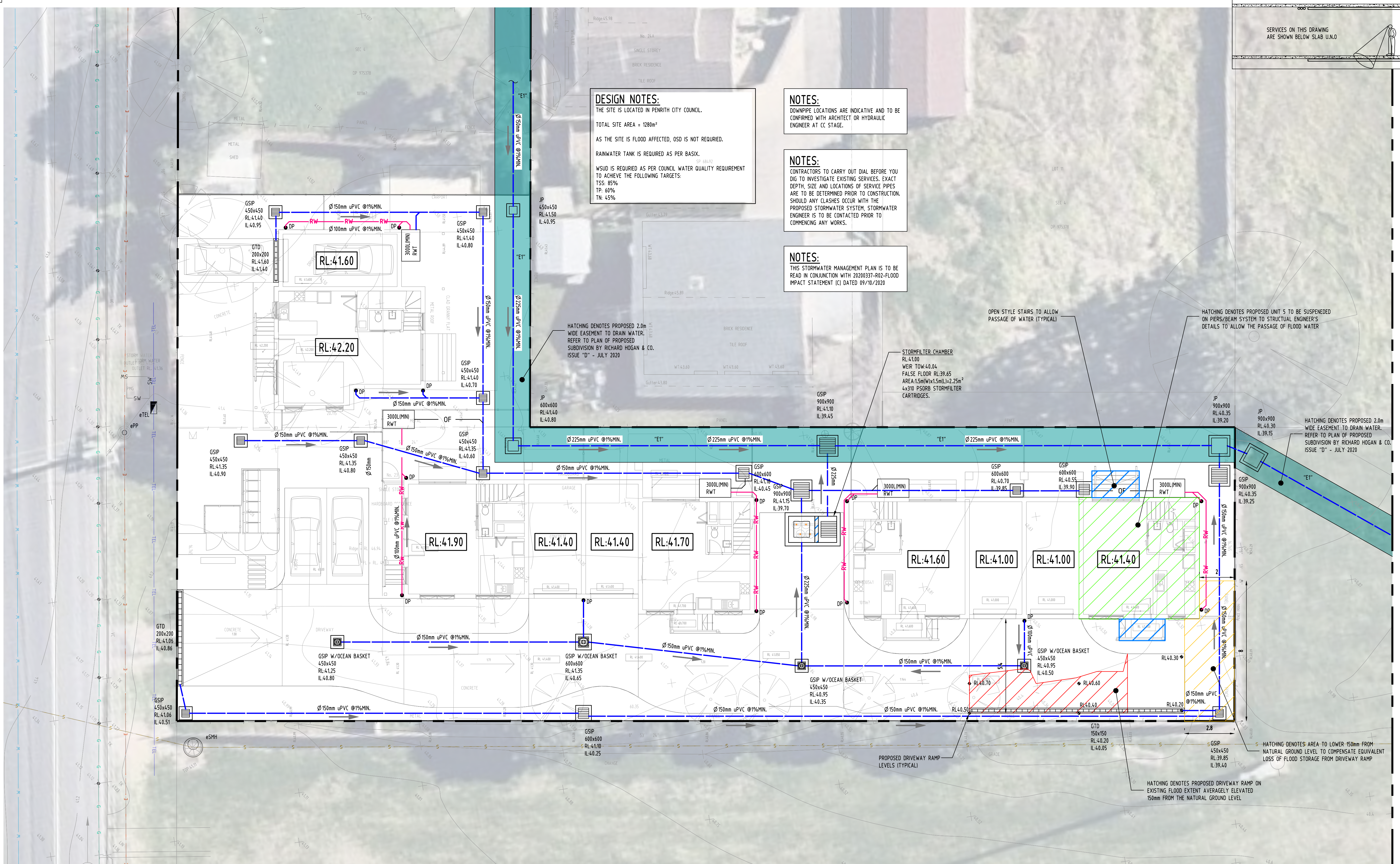
| | | |
|---|--|-------------|
| Drawing Status | FOR APPROVAL | |
| Drawing Title | NOT TO BE USED FOR CONSTRUCTION PURPOSES | |
| STORMWATER DRAINAGE DESIGN SITE PLAN | | |
| Project No | Drawing No | Revision No |
| 20200337 | SW110 | A |

DATE PLOTTED: 9 October 2020 5:08 PM BY: JOSEPHSGC

SGC Production\2020\20200337 23 Second Avenue, Kingswood\Civil\2020\049

Document Set ID: 9334150
Version: 1, Version Date: 14/10/2020

A1



SERVICES ON THIS DRAWING
ARE SHOWN BELOW SLAB U.N.O.

DESIGN NOTES:
THE SITE IS LOCATED IN PENRITH CITY COUNCIL.
TOTAL SITE AREA = 1280m²
AS THE SITE IS FLOOD AFFECTED, OSD IS NOT REQUIRED.
RAINWATER TANK IS REQUIRED AS PER BASIX.
WSUD IS REQUIRED AS PER COUNCIL WATER QUALITY REQUIREMENT TO ACHIEVE THE FOLLOWING TARGETS:
TSS: 85%
TP: 60%
TN: 45%

NOTES:
DOWNPIPE LOCATIONS ARE INDICATIVE AND TO BE CONFIRMED WITH ARCHITECT OR HYDRAULIC ENGINEER AT CC STAGE.

NOTES:
CONTRACTORS TO CARRY OUT DIAL BEFORE YOU DIG TO INVESTIGATE EXISTING SERVICES. EXACT DEPTH, SIZE AND LOCATIONS OF SERVICE PIPES ARE TO BE DETERMINED PRIOR TO CONSTRUCTION. SHOULD ANY CLASHES OCCUR WITH THE PROPOSED STORMWATER SYSTEM, STORMWATER ENGINEER IS TO BE CONTACTED PRIOR TO COMMENCING ANY WORKS.

NOTES:
THIS STORMWATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH 20200337-R02-FLOOD IMPACT STATEMENT (C) DATED 09/10/2020

HATCHING DENOTES PROPOSED 2.0m WIDE EASEMENT TO DRAIN WATER. REFER TO PLAN OF PROPOSED SUBDIVISION BY RICHARD HOGAN & CO. ISSUE "D" - JULY 2020

STORMFILTER CHAMBER
RL:41.00
WEIR TOW:40.04
FALSE FLOOR RL:39.65
AREA:1.5m(W)x1.5m(L)=2.25m²
4x310 PSORB STORMFILTER CARTRIDGES.

HATCHING DENOTES PROPOSED UNIT 5 TO BE SUSPENDED ON PIERS/BEAM SYSTEM TO STRUCTURAL ENGINEER'S DETAILS TO ALLOW THE PASSAGE OF FLOOD WATER


HATCHING DENOTES PROPOSED 2.0m WIDE EASEMENT TO DRAIN WATER. REFER TO PLAN OF PROPOSED SUBDIVISION BY RICHARD HOGAN & CO. ISSUE "D" - JULY 2020

HATCHING DENOTES: AREA TO LOWER 150mm FROM NATURAL GROUND LEVEL TO COMPENSATE EQUIVALENT LOSS OF FLOOD STORAGE FROM DRIVEWAY RAMP

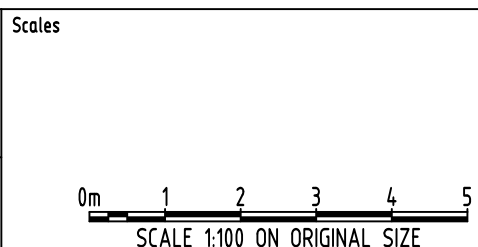
HATCHING DENOTES PROPOSED DRIVEWAY RAMP ON EXISTING FLOOD EXTENT AVERAGELY ELEVATED 150mm FROM THE NATURAL GROUND LEVEL

| Reference Coordination Drawing | | | | |
|--------------------------------|--------------------------|------|------|--|
| Discipline | Drawing Title and Number | Date | Rev. | |
| ARCH | | | | |
| ARCH | | | | |
| STRUCT | | | | |
| MECH | | | | |
| ELEC | | | | |
| HYD | | | | |
| FIRE | | | | |
| LANDS | | | | |
| CIVIL | | | | |
| SURVEY | | | | |

| Issuer internal sequence and revision history | | | | |
|---|---------------------------|----------------------------|----------|----------------|
| 1-preliminary | 2-development application | 3-construction certificate | 4-tender | 5-construction |
| 1-preliminary | 2-development application | 3-construction certificate | 4-tender | 5-construction |

| | | | | | |
|---|---|------------------------|----|------|----------|
|  | ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER | QUALITY CONTROL | | | |
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| | | CHECKED | SH | DATE | 09.10.20 |
| | | DESIGNED | RP | DATE | 09.10.20 |
| | | VERIFIED | SH | DATE | 09.10.20 |
| | | APPROVED | SH | DATE | 09.10.20 |

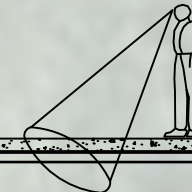
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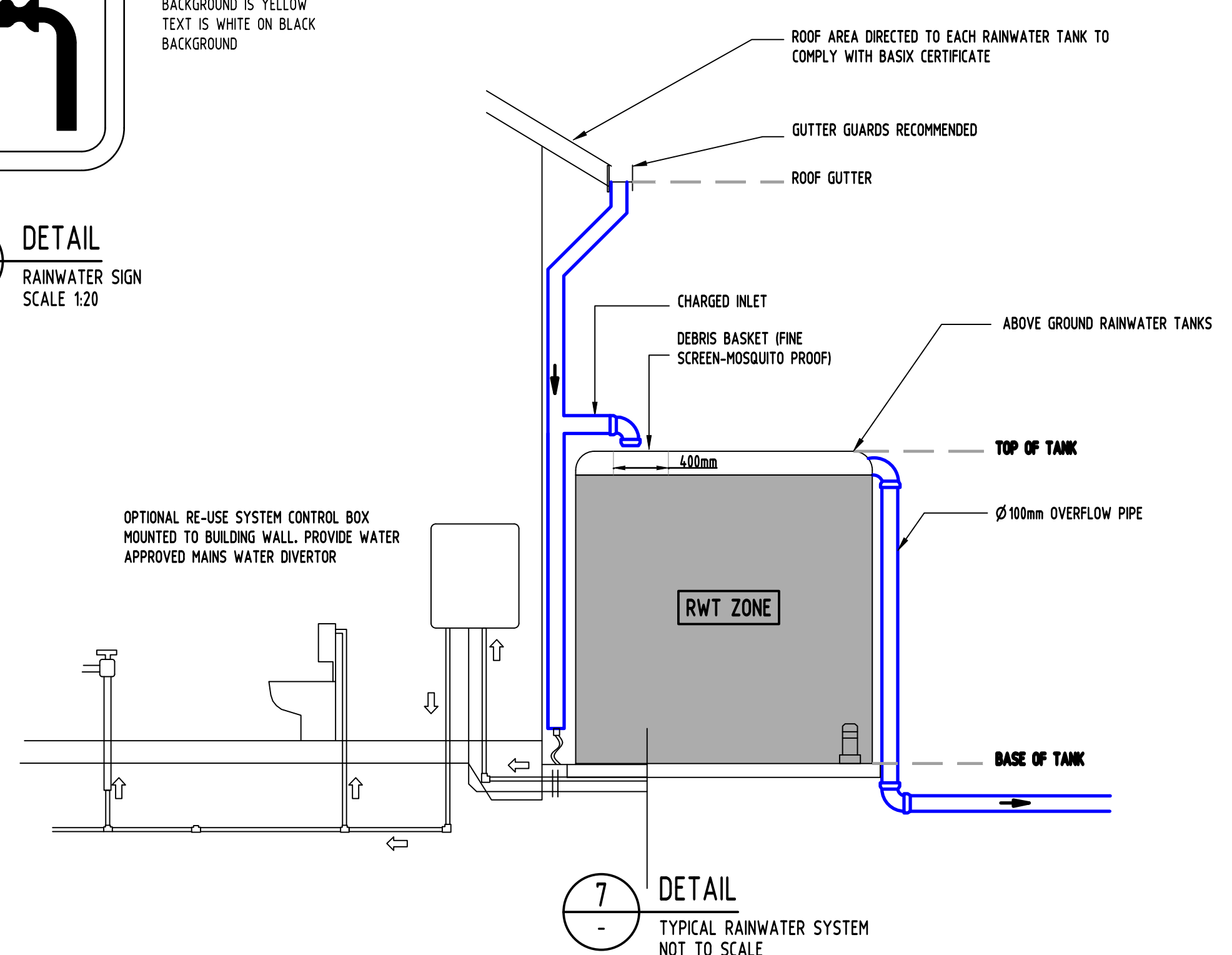
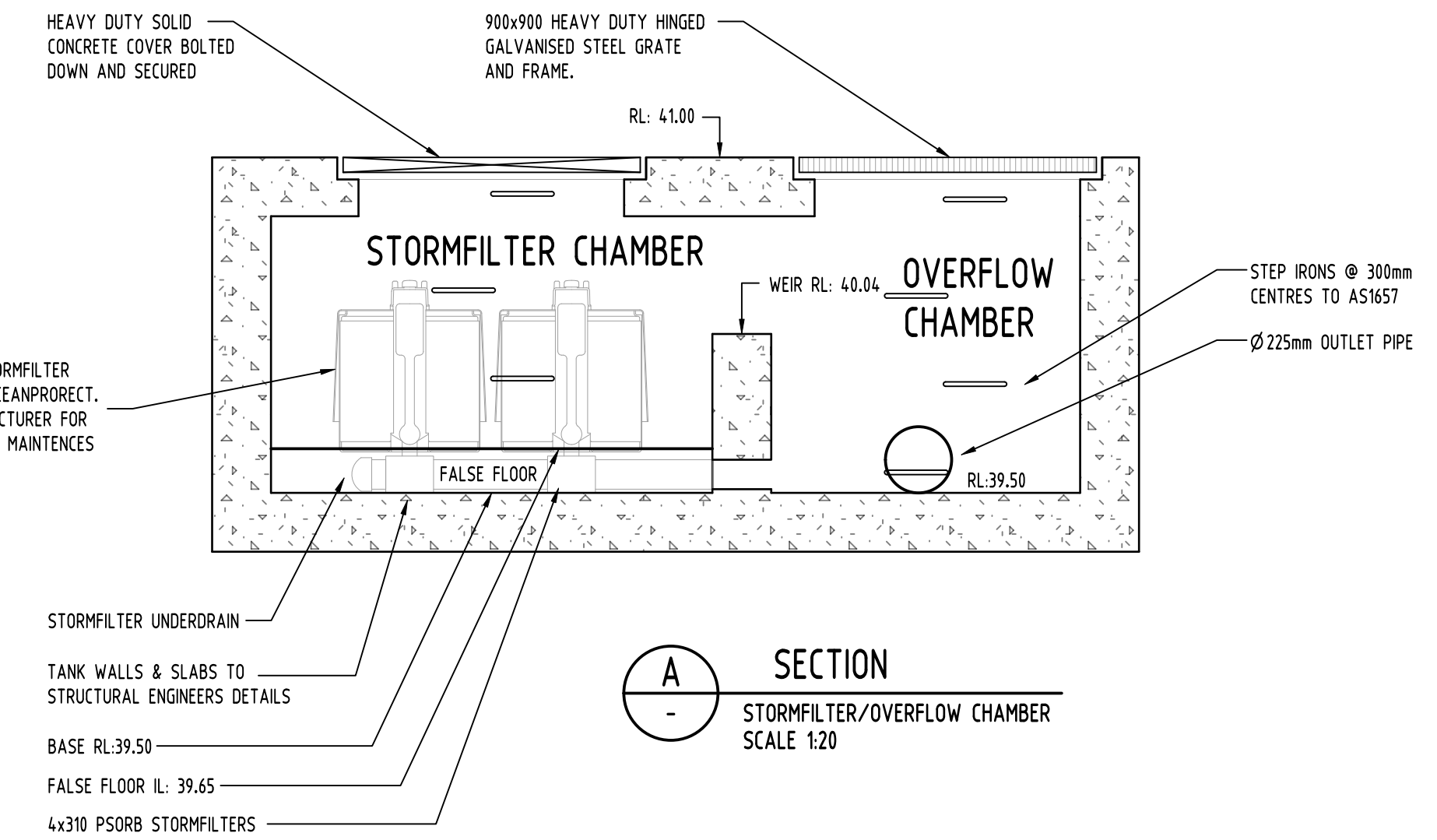
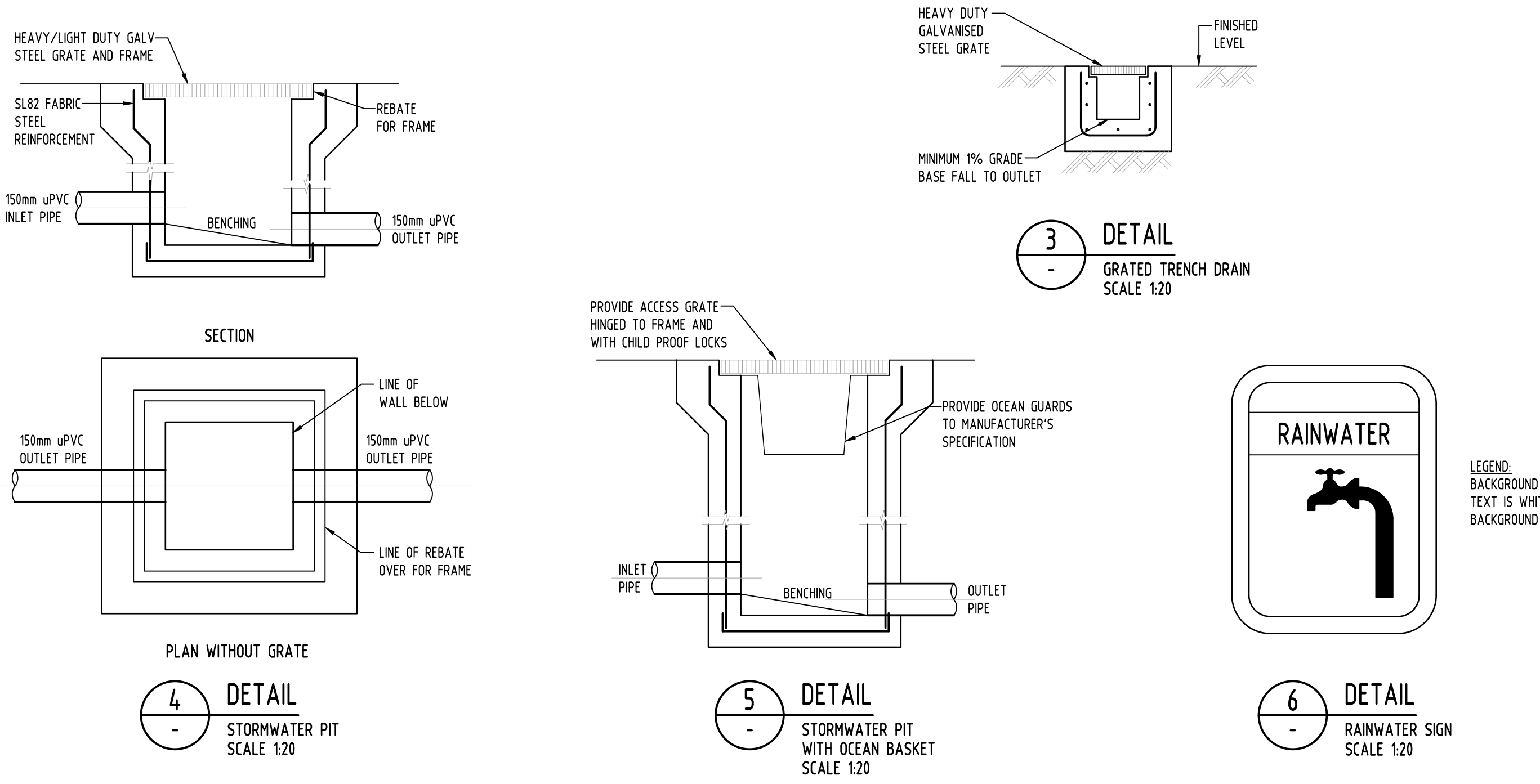
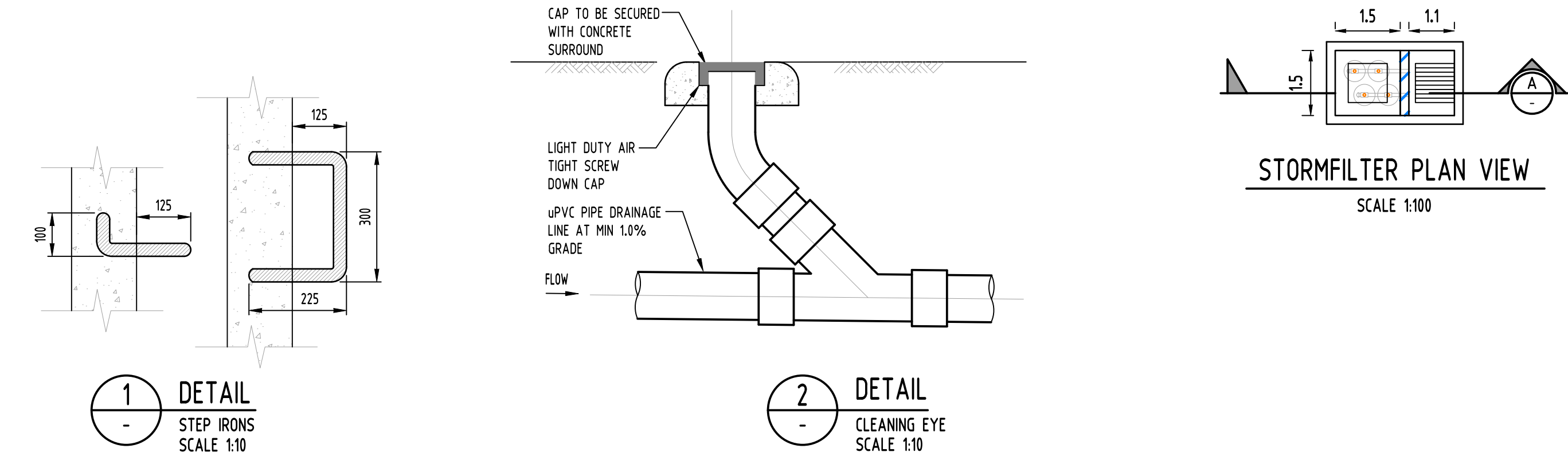
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Web: www.sgce.com.au

A.B.N. 21 118 222 530

| | | | |
|--|--|--|--|
| PROJECT PROPOSED RESIDENTIAL DEVELOPMENT 23 SECOND AVENUE, KINGSWOOD | | Drawing Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES | |
| Drawing Title STORMWATER DRAINAGE DESIGN GROUND FLOOR PLAN SHEET 1 OF 2 | | Project No 20200337 | |
| Grid - | | Drawing No SW200 | |
| Datum A.H.D. | | Revision No A | |
| Sheet 3 OF 7 | | Scale (at original size) 1:100 @ A1 | |

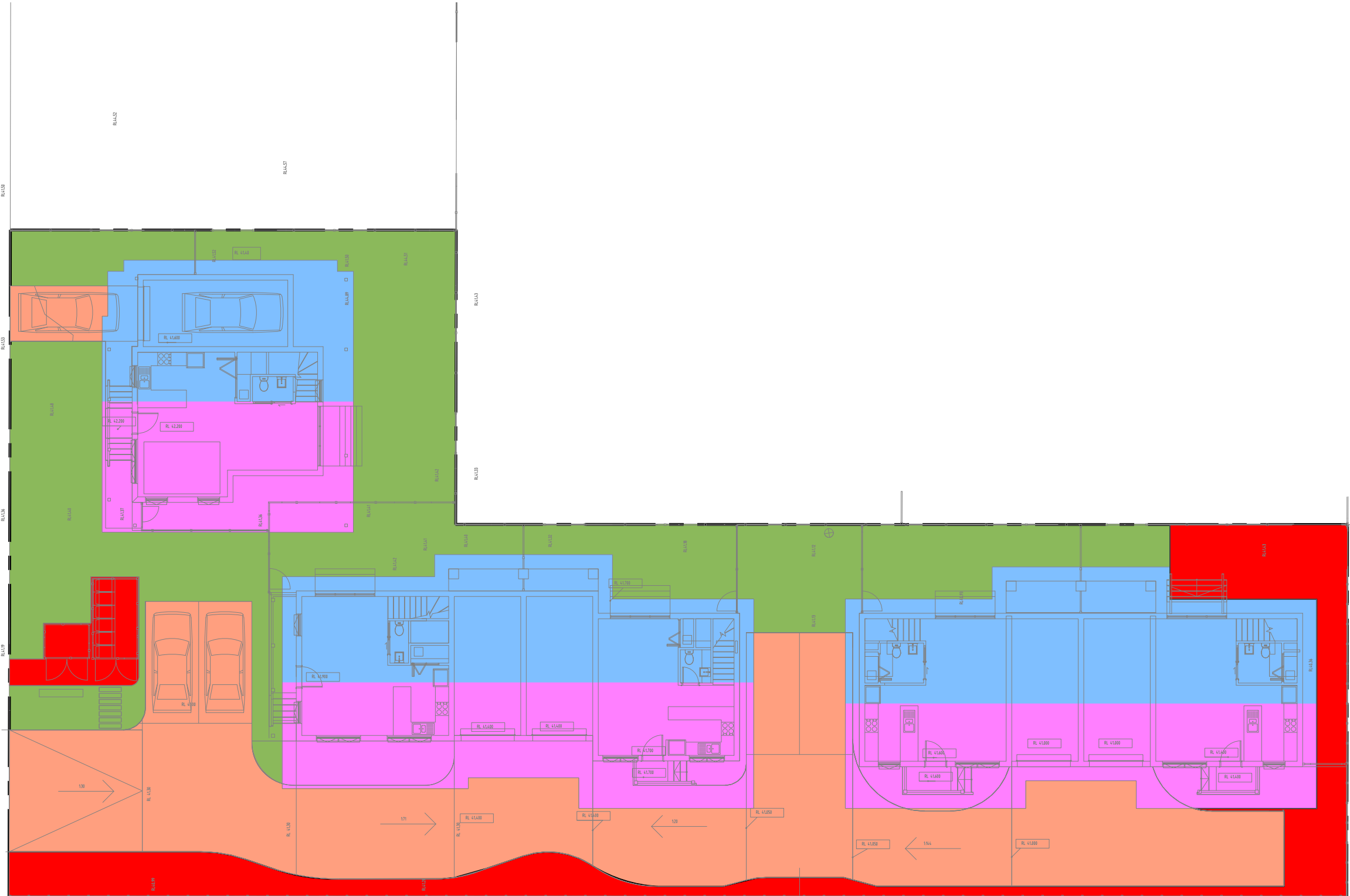


| | | |
|------------|------------|-------------|
| Project No | Drawing No | Revision No |
| 20200337 | SW201 | A |



| | | | | | | | | | | | | | | | | | | | |
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| Discipline | Drawing Title and Number | Date | Rev. | | | DRAWN | RP | DATE | 09.10.20 | 0m 0.2 0.4 0.6 0.8 1.0 SCALE 1:20 ON ORIGINAL SIZE | | MORSON GROUP | | MORSON GROUP | | Suite 5.03, Level 5, 156 PACIFIC HIGHWAY ST. LEONARDS, NSW 2065 T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au | | FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES | |
| ARCH | | | | | | CHECKED | SH | DATE | 09.10.20 | | | | | | | DRAWING TITLE | | STORMWATER DRAINAGE DESIGN DETAILS SHEET | |
| ARCH | | | | | | DESIGNED | RP | DATE | 09.10.20 | 0m 1 2 3 4 5 SCALE 1:100 ON ORIGINAL SIZE | | | | | | 23 SECOND AVENUE, KINGSWOOD | | Project No | |
| STRUCT | | | | | | VERIFIED | SH | DATE | 09.10.20 | | | | | | | Drawing No | | 20200337 | |
| MECH | | | | | | APPROVED | SH | DATE | 09.10.20 | | | | | | | Revision No | | A | |
| ELEC | | | | | | DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE THIS DRAWING. POSTING OF AUTHORITIES MARKS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DESIGN/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS. | | | | | | | | | | Grid | | Datum | |
| HYD | | | | | | Issue Last revision title | | | | | | | | | | Sheet | | 5 OF 7 | |
| FIRE | | | | | | Issuer internal sequence and revision history | | | | | | | | | | Scale (at original size) | | AS SHOWN | |
| LANDS | | | | | | 1-preliminary 2-development application 3-construction certificate 4-tender 5-construction 6-other | | | | | | | | | | A.B.N. 21 118 222 530 | | | |
| CIVIL | | | | | | | | | | | | | | | | | | | |
| SURVEY | | | | | | | | | | | | | | | | | | | |

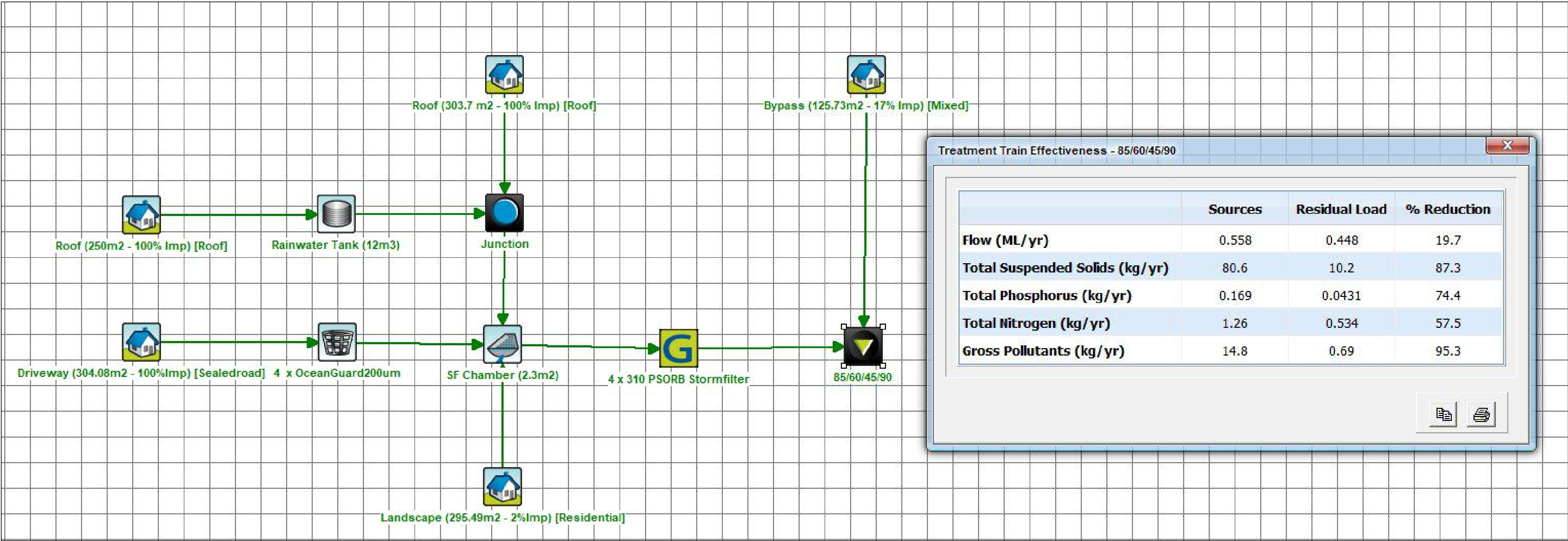
SERVICES ON THIS DRAWING
ARE SHOWN BELOW SLAB U.N.O



MUSIC CATCHMENT PLAN

LEGEND

- SITE AREA = 1279m2
- ROOF AREA TO RWT AND STORMFILTER = 250.0m2
- ROOF AREA TO STORMFILTER = 303.7m2
- DRIVEWAY AREA TO OCEANGUARDS AND STORMFILTER = 304.08m2
- LANDSCAPE AREA 295.49m2 (2% IMPERVIOUS)
- BYPASS AREA = 125.73m2 (17% IMPERVIOUS)



| Discipline | Drawing Title and Number | Date | Rev. |
|------------|--------------------------|------|------|
| ARCH | | | |
| ARCH | | | |
| STRUCT | | | |
| MECH | | | |
| ELEC | | | |
| HYD | | | |
| FIRE | | | |
| LANDS | | | |
| CIVIL | | | |
| SURVEY | | | |

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| DRAWN | RP | DATE | 09.10.20 |
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| DESIGNED | RP | DATE | 09.10.20 |
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0m 2 4 6 8 10

SCALE 1:200 ON ORIGINAL SIZE

CLIENT

MORSON GROUP

ARCHITECT

MORSON GROUP

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A.B.N. 21 118 222 530

PROJECT

PROPOSED RESIDENTIAL DEVELOPMENT

23 SECOND AVENUE,
KINGSWOOD

| Grid | Datum | Sheet | Scale (at original size) |
|------|--------|--------|--------------------------|
| - | A.H.D. | 7 OF 7 | AS SHOWN |

| Project No | Drawing No | Revision No |
|------------|------------|-------------|
| 20200337 | SW500 | A |

Drawing Status

FOR APPROVAL

NOT TO BE USED FOR CONSTRUCTION PURPOSES

Drawing Title

MUSIC CATCHMENT PLAN