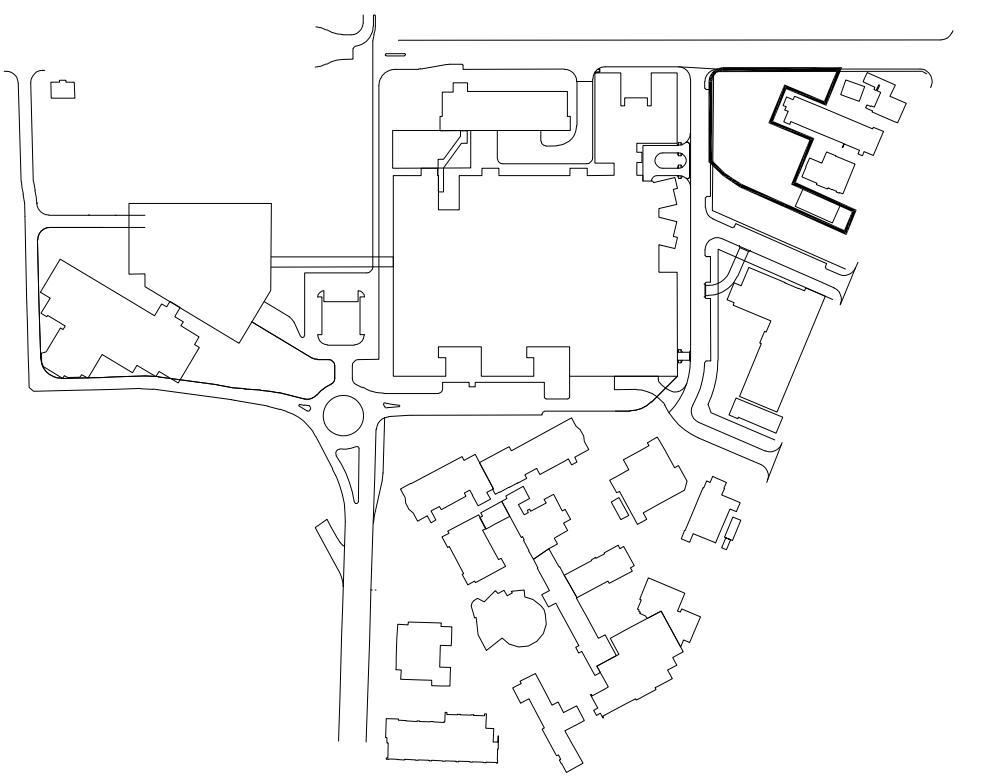


Appendix D

Concept Catchment Gross Assumptions

SWR01 - Existing Stormwater Catchment Plan

SWR02 - Proposed Stormwater Catchment Plan



TOTAL EXISTING CATCHMENTS
IMPERVIOUS (ROOFED AREAS & OTHERS) = 205 090m²
PERVIOUS = 79 199m²

ROOFED AREA = 13 025m²
OTHER AREAS = 7 603m²
20 628m²

OTHER AREAS:
70% = 5 322m²
30% = 2 281m²

TOTAL PERVIOUS = 2 281m²
TOTAL IMPERVIOUS = 18 347m²

TOTAL AREA = 23 803m²

ROOFED AREA = 4 755m²
OTHER AREAS = 19 048m²
23 803m²

OTHER AREAS:
70% = 13 334m²
30% = 5 714m²

TOTAL PERVIOUS = 5 714m²
TOTAL IMPERVIOUS = 18 089m²

ROOFED AREA = 7 962m²
OTHER AREAS = 13 001m²
20 963m²

OTHER AREAS:
70% = 9 101m²
30% = 3 900m²

TOTAL PERVIOUS = 3 900m²
TOTAL IMPERVIOUS = 17 063m²

ROOFED AREA = 0m²
OTHER AREAS = 15 110m²
15 110m²

OTHER AREAS:
70% = 10 577m²
30% = 4 533m²

TOTAL PERVIOUS = 4 533m²
TOTAL IMPERVIOUS = 10 577m²

ROOFED AREA = 11 008m²
OTHER AREAS = 29 084m²
40 092m²

OTHER AREAS:
70% = 20 359m²
30% = 8 725m²

TOTAL PERVIOUS = 8 725m²
TOTAL IMPERVIOUS = 31 367m²

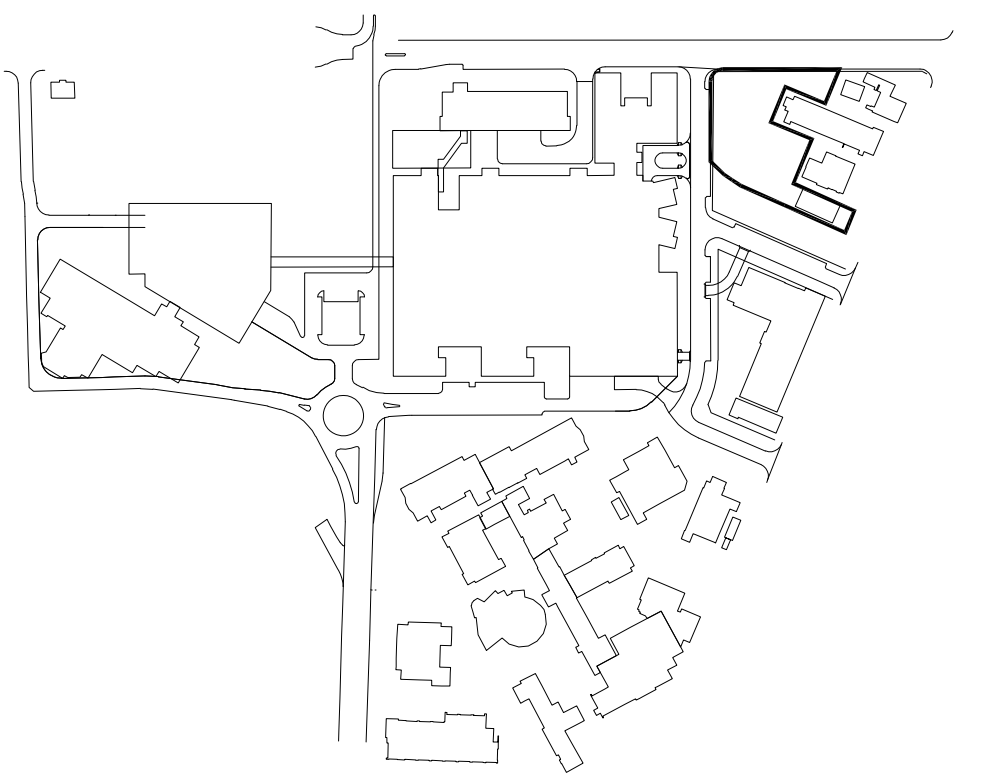
TOTAL AREA = 49 381m²
TOTAL PERVIOUS (40%) = 19 752m²
TOTAL IMPERVIOUS (60%) = 29 629m²

TOTAL AREA = 20 628m²

TOTAL AREA = 15 110m²

TOTAL AREA = 40 092m²

TOTAL AREA = 114 311m²
TOTAL PERVIOUS (30%) = 34 293m²
TOTAL IMPERVIOUS (70%) = 80 018m²



LEGEND

- WEST CATCHMENT
- RESERVE ROAD CATCHMENT
- MAIN ENTRANCE CATCHMENT
- NEW ACUTE HOSPITAL CATCHMENT
- PRECINCT 7 & R&E CATCHMENT
- COMMUNITY HEALTH CATCHMENT

TOTAL PROPOSED CATCHMENTS (ADJUSTED)
IMPERVIOUS (ROOFED AREAS & OTHERS) = 66 973m²
PERVIOUS = 13 305m²

ROOFED AREA = 5,519m²
OTHER AREAS = $\frac{13,884\text{m}^2}{19,403\text{m}^2}$

OTHER AREAS:
70% = 9,719m²
30% = 4,165m²

TOTAL PERVIOUS = 4,165m²
TOTAL IMPERVIOUS = 15,238m²

TOTAL AREA = 19,403m²

TOTAL AREA = 8,424m²

ROOFED AREA = 1,863m²
OTHER AREAS = $\frac{6,561\text{m}^2}{8,424\text{m}^2}$

OTHER AREAS:
70% = 4,593m²
30% = 1,968m²

TOTAL PERVIOUS = 1,968m²
TOTAL IMPERVIOUS = 6,456m²

TOTAL AREA = 16,306m²

ROOFED AREA = 14,328m²
OTHER AREAS = $\frac{1,978\text{m}^2}{16,306\text{m}^2}$

OTHER AREAS:
70% = 1,385m²
30% = 593m²

TOTAL PERVIOUS = 593m²
TOTAL IMPERVIOUS = 15,713m²

TOTAL AREA = 10,096m²
ROOFED AREA = 2,252m²
OTHER AREAS = 7,844m²

OTHER AREAS:
70% = 5,491m²
30% = 2,353m²

TOTAL PERVIOUS = 2,353m²
TOTAL IMPERVIOUS = 7,743m²

TOTAL AREA = 5,788m²
ROOFED AREA = 0m²
OTHER AREAS = $\frac{5,788\text{m}^2}{5,788\text{m}^2}$

OTHER AREAS:
70% = 4,052m²
30% = 1,736m²

TOTAL PERVIOUS = 1,736m²
TOTAL IMPERVIOUS = 4,052m²

ROOFED AREA = 11,961m²
OTHER AREAS = $\frac{8,300\text{m}^2}{20,261\text{m}^2}$

OTHER AREAS:
70% = 5,810m²
30% = 2,490m²

TOTAL PERVIOUS = 2,490m²
TOTAL IMPERVIOUS = 17,771m²

TOTAL AREA = 20,261m²