



PROJECT

**Cranbrook School
Redevelopment**

CLIENT

Cranbrook School

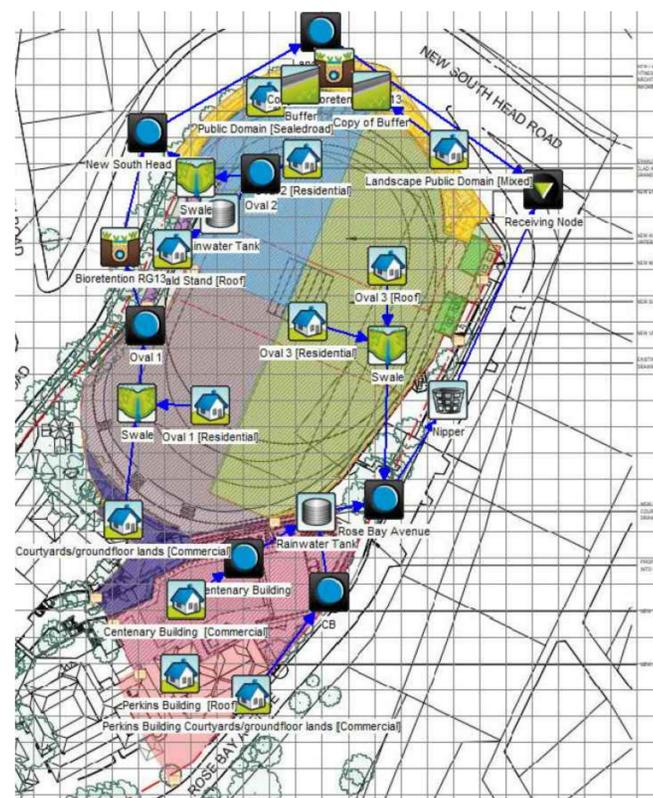
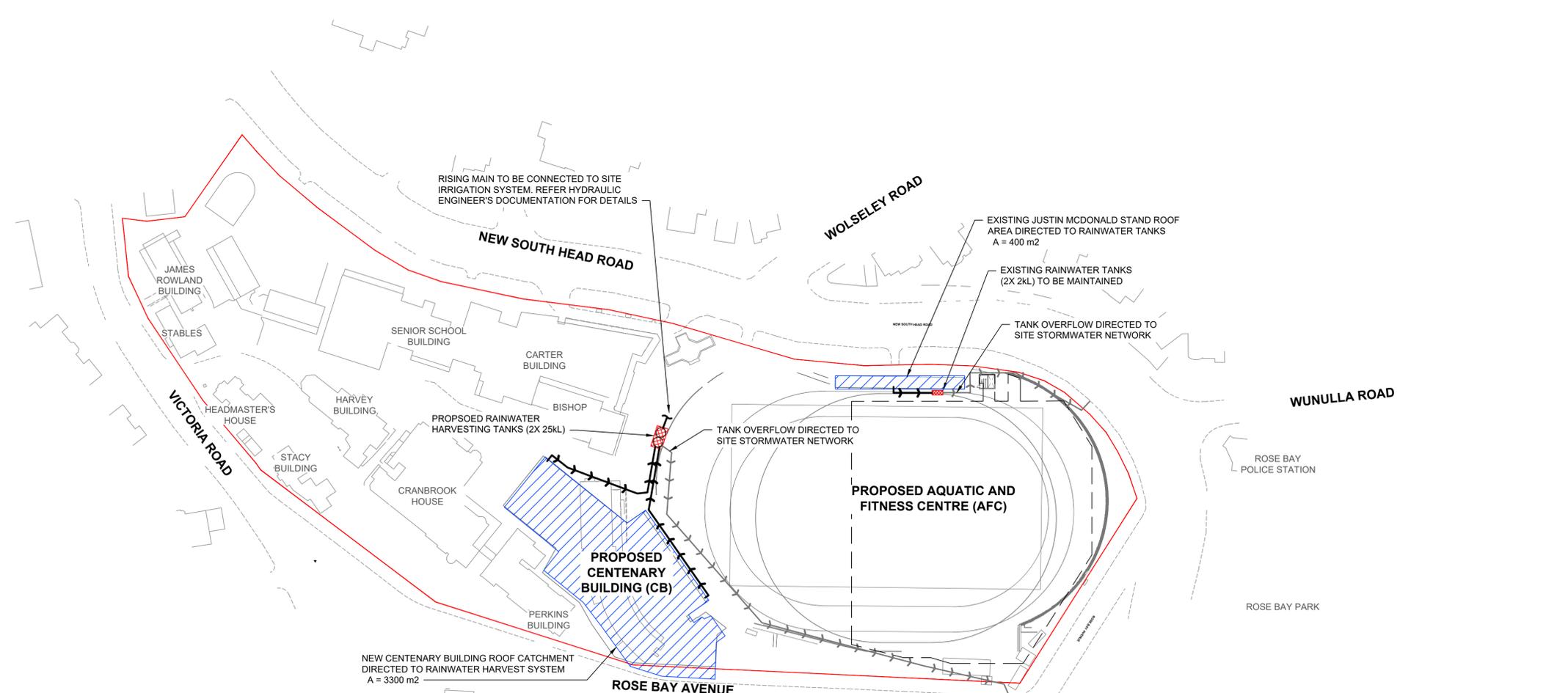
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CONSULTANT

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LEGEND

- SITE BOUNDARY
- ROOF CATCHMENT AREA COLLECTED BY RAINWATER HARVESTING SYSTEM
- INDICATIVE RAINWATER HARVESTING TANK EXTENTS
- STORMWATER LINES AND DIRECTION
- STORMWATER LINES (OVERFLOW AND DIRECTION)



SUMMARY OF RAINWATER RE-USE AND HARVESTING WATER BALANCE RESULTS

CATCHMENT AREAS CONTRIBUTING

- NEW ROOF AREA (CENTENARY BUILDING) = 3 300 m²
- EXISTING ROOF AREA (JUSTIN MCDONALD STAND) = 400 m²

LANDSCAPE PLANTING IRRIGATION DEMAND

- TOTAL AREA = 2903 m²
- TOTAL DEMAND = 6 038 kL/YEAR (REFER TO LANDSCAPE ARCHITECT'S DOCUMENTATION FOR AREAS PROPOSED FOR IRRIGATION)

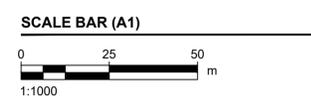
RAINWATER HARVESTING TANK VOLUMES

- 50 000L - PROVIDED FOR NEW ROOF AREAS (30% RAINWATER RE-USE DEMAND MET)
- 4 000L - PROVIDED FOR EXISTING JUSTIN MCDONALD STAND (0.8% RAINWATER RE-USE DEMAND MET)

REFER TO FIGURE 1 FOR WATER BALANCE MUSIC MODEL SCHEMATIC

- NOTES:**
- REFER TO HYDRAULIC ENGINEER'S DOCUMENTATION FOR DETAILS RELATED TO SITE IRRIGATION NETWORK AND PUMP REQUIREMENTS
 - REFER TO LANDSCAPE ARCHITECT'S DOCUMENTATION FOR IRRIGABLE AREAS PROPOSED AS PART OF THE WORKS
 - REFER TO MEMORANDUM TITLED 'WATER SENSITIVE URBAN DESIGN AND WATER BALANCE' PREPARED BY AECOM DATED 13.10.2018 FOR DETAILS OF WATER BALANCE, RAINWATER HARVEST TANK SIZING COMPUTATIONS AND WATER QUALITY MODELING FOR THE DEVELOPMENT
 - REFER TO SHEET SERIES 300, CI-0510 AND -511 FOR DETAILS OF THE PROPOSED SITE STORMWATER NETWORK INCORPORATING RAINWATER HARVESTING AND IRRIGATION ELEMENTS

NOT FOR CONSTRUCTION



PROJECT MANAGEMENT INITIALS

JW	WH	DF
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

NO.	DATE	DESCRIPTION
4	8.11.2019	TENDER ISSUE
3	-	NOT ISSUED
2	-	NOT ISSUED
1	-	NOT ISSUED
I/R	DATE	DESCRIPTION

PROJECT NUMBER
60549969

SHEET TITLE
RAINWATER RE-USE PLAN

SHEET NUMBER
60549969-SHT-01-CR-C-0351

FIGURE 1: RAINWATER RE-USE MODEL SCHEMATIC