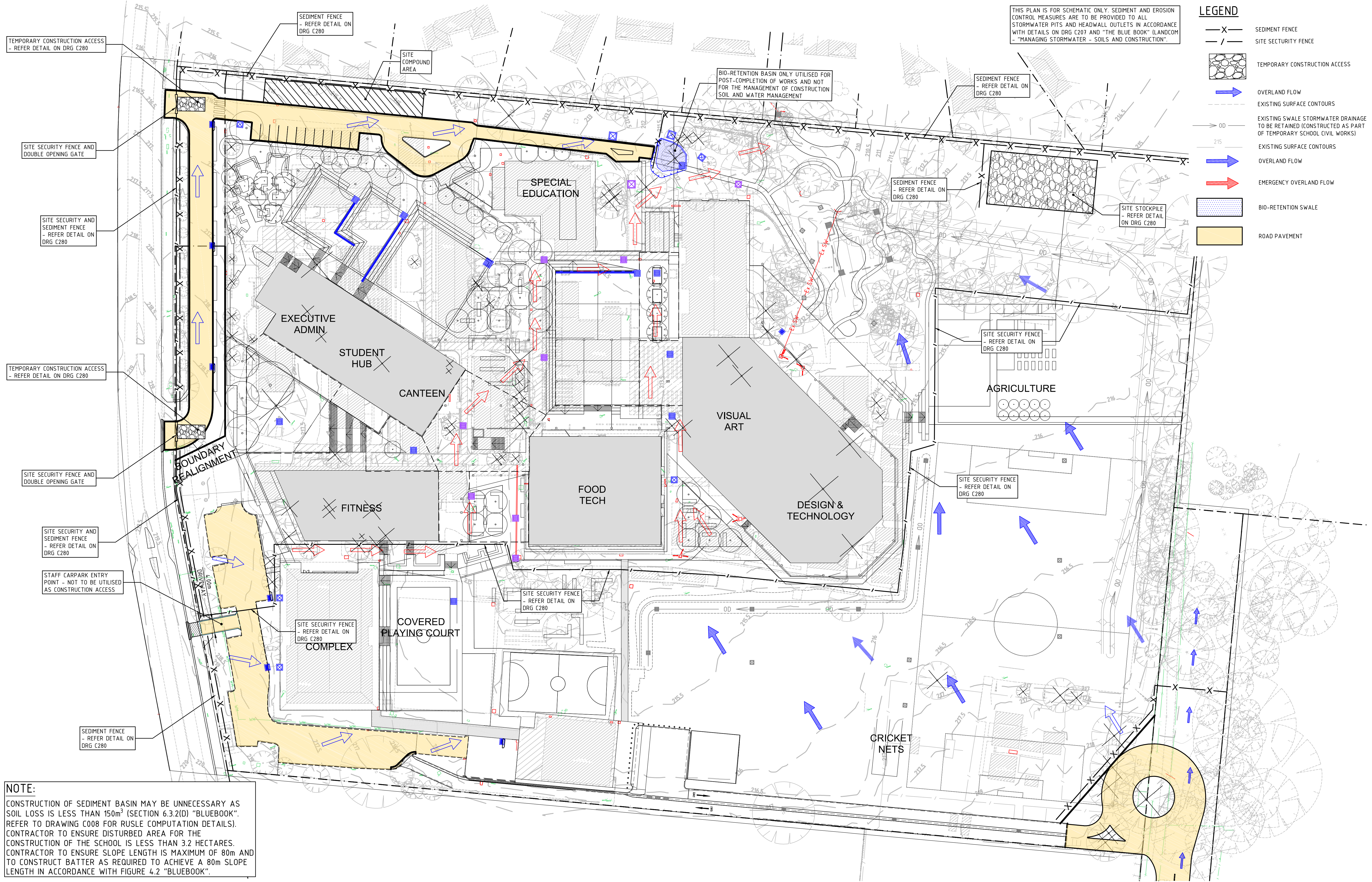


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P2	100% SCHEMATIC DESIGN	22.02.18	CS	-
P1	100% SCHEMATIC DESIGN	09.02.18	CS	-

Rev	Description	Date	By	App

Rev	Description	Date	By	App

Rev	Description	Date	By	App

NOTES:

1. K-FACTOR AND GROUP C HYDROLOGIC GROUP BASED ON TABLE C21 "BLUEBOOK" PICTON LANDSCAPE.
2. 5-DAY 85% RAINFALL DEPTH OF 34.1mm CHOSEN AS THE AVERAGE OF CAMDEN AND MITTAGONG LANDSCAPE IN TABLE 6.3a "BLUEBOOK" AS PICTON IS LOCATED IN BETWEEN THESE LOCATIONS.
3. ANNUAL SOIL LOSS AS COMPUTED BY THE RUSLE EQUATION IS 114m³ PER YEAR DUE TO RELATIVELY FLAT SLOPE ON SITE (ASSUMED NOMINALLY 2% AS PROPOSED CONSTRUCTION WILL REQUIRE FLAT SURFACE FOR BUILDING SLAB). CONSEQUENTLY, CONSTRUCTION OF A SEDIMENT BASIN MAY BE UNNECESSARY FOR THE ULTIMATE SCHOOL CONSTRUCTION WORKS AS THE SOIL LOSS IS LESS THAN 150m³/YR (REFER TO SECTION 6.3.2(D) OF THE "BLUEBOOK"). CONTRACTOR IS TO USE ALTERNATE SEDIMENT CONTROL MEASURES SUCH THAT QUALITY OF RUNOFF IS OF AN ACCEPTABLE STANDARD PRIOR TO DISCHARGE.

SWMP Commentary, Detailed Calculations

Note: These "Detailed Calculation" spreadsheets relate only to high erosion hazard lands as identified in figure 4.6 or where the designer chooses to use the RUSLE to size sediment basins. The "Standard Calculation" spreadsheets should be used on low erosion hazard lands as identified by figure 4.6 and where the designer chooses not to run the RUSLE in calculations.

1. Site Data Sheet

Site Name: Picton High School

Site Location: Picton High School

Precinct:

Description of Site: Existing Picton High School (area nominally 3.2ha) to be demolished. Temporary School to be non disturbed during demolition of existing school

Site area	Site						Remarks
	Basin						
Total catchment area (ha)	3.2						
Disturbed catchment area (ha)	3.2						

Soil analysis

% sand (fraction 0.02 to 2.00 mm)				Soil texture should be assessed through
% silt (fraction 0.002 to 0.02 mm)				mechanical dispersion only. Dispersing
% clay (fraction finer than 0.002 mm)				agents (e.g. Calgon) should not be used
Dispersion percentage				E.g. enter 10 for dispersion of 10%
% of whole soil dispersible				See Section 6.3.3(e)
Soil Texture Group				See Section 6.3.3(c), (d) and (e)

Rainfall data

Design rainfall depth (days)	5					See Sections 6.3.4 (f) and (e)
Design rainfall depth (percentile)	85					See Sections 6.3.4 (f) and (g)
x-day, y-percentile rainfall event	34.1					See Section 6.3.4 (h)
Rainfall intensity: 2-year, 6-hour storm	10.6					See IFD chart for the site

RUSLE Factors

[illegible]

Calculations

Soil loss (t/ha/yr)	45				
Soil Loss Class	1				See Section 4.4.2(b)
Soil loss (m ³ /ha/yr)	34				
Sediment basin storage volume, m ³	19				See Sections 6.3.4(i) and 6.3.5 (e)

180209 Ultimate School Sed basin Spreadsheet Detailed edi~t2.xls

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P1	100% SCHEMATIC DESIGN	09.02.18	CS	-
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Project Name	PICTON HIGH SCHOOL REDEVELOPMENT PICTON, NSW 2571			
	SCHEMATIC DESIGN			
Drawing Title	Designed CS	Project Director Approved	Date	North
	Drawn CS			
	Scale N.T.S.	Project Ref	Drawing No	Rev
	Date JAN 2018			
	Sheet A1	20 21786 01	C008	P1