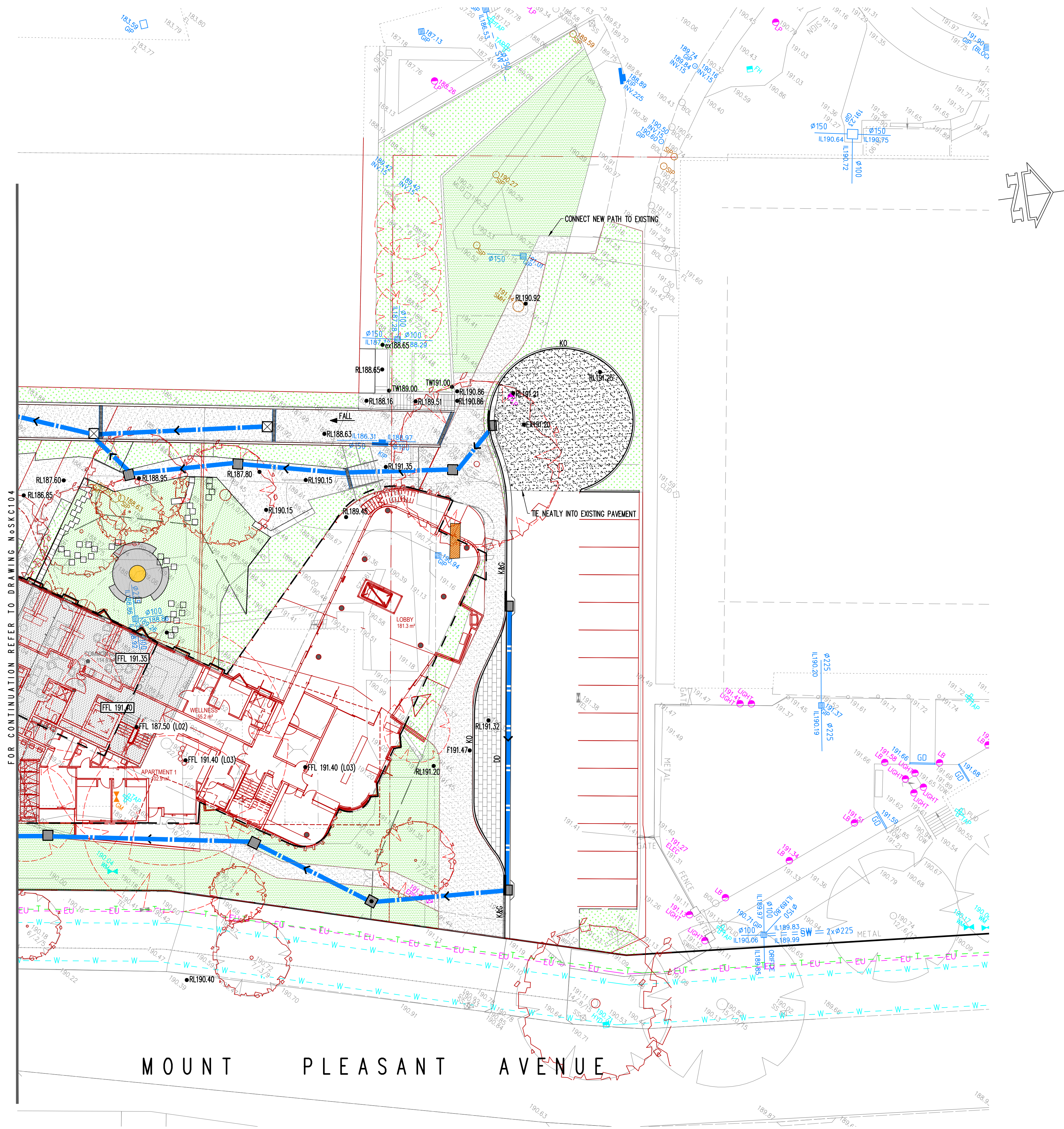


D:\Users\SKC105\app - US32\jheath - Plot File Created: Dec 17, 2020 - 3:45pm



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THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES ON DRAWING C101

SITEWORKS LEGEND

- F22.20 Finished surface level
- K&G Kerb and gutter
- KO Kerb only
- DD Dish Drain
- Stormwater pit, flow direction and line with Invert level upstream Pipe size and class Pipe grade Flow (Litres per second) Invert level downstream
- Grated drain

ARCHITECTURAL LEGEND

- LEVEL 02
- LEVEL 03
- BASEMENT / LEVEL 01 BELOW
- Existing tree to be removed

PAVEMENT LEGEND

- Refer to Landscape

* NOTE: CONTRACTOR TO CLEAN AND INVESTIGATE VIA CCTV EXISTING STORMWATER INFRASTRUCTURE TO BE CONNECTED INTO.

A1 2 1 2 3 4 5 6 7 8 9 10

P5	ISSUE FOR SSDA	GC	JH	17.12.20					
P4	ISSUE FOR DRAFT SSDA	GC	JH	30.11.20					
P3	ISSUE FOR APPROVAL	GC	JH	17.01.19					
P2	ISSUE FOR APPROVAL	GC	JH	11.01.19					
P1	ISSUE FOR APPROVAL	GC	JH	20.12.18					
Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date

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Project
LORETO NORMANHURST,
91-93 PENNANT HILLS ROAD
SITE A, BOARDING HOUSE

Sheet Subject
SITEWORKS PLAN SHEET 3
(LEVEL 02 AND 03)

Scale : A1
1:200
Job No
181202
Plot File Created: Dec 17, 2020 - 3:45pm
Drawn
JH
Drawing No
SKC105
Revision
P5

Appendix A

Boarding House and Garden Plaza MUSIC Link Report

MUSIC-*link* Report

Project Details		Company Details	
Project:	Loreto Boarding House	Company:	Taylor Thomson Whitting
Report Export Date:	27/11/2020	Contact:	Grace Carpp
Catchment Name:	201125 Boarding House and P3A	Address:	Level 3, 48 Chandos Street, St Leonards 2065
Catchment Area:	0.566ha	Phone:	84377278
Impervious Area*:	61.83%	Email:	Grace.Carpp@tw.com.au
Rainfall Station:	66062 SYDNEY		
Modelling Time-step:	6 Minutes		
Modelling Period:	1/01/1981 - 31/12/1985 11:54:00 PM		
Mean Annual Rainfall:	1240mm		
Evapotranspiration:	1261mm		
MUSIC Version:	6.3.0		
MUSIC-link data Version:	6.33		
Study Area:	Hornsby Shire Council (Quality)		
Scenario:	Hornsby Shire Council (Quality)		

* takes into account area from all source nodes that link to the chosen reporting node, excluding Import Data Nodes

Treatment Train Effectiveness		Treatment Nodes		Source Nodes	
Node: Post-Development Node	Reduction	Node Type	Number	Node Type	Number
Flow	6.4%	Sedimentation Basin Node	1	Urban Source Node	5
TSS	88.8%	Rain Water Tank Node	1		
TP	70.6%	Swale Node	1		
TN	52.8%	GPT Node	3		
GP	100%	Generic Node	1		

Comments

Stormfilter chamber treatment node values have been selected based on OceanProtect's specifications.

Passing Parameters

Node Type	Node Name	Parameter	Min	Max	Actual
GPT	2 x EnviroPod 200	Hi-flow bypass rate (cum/sec)	None	99	0.04
GPT	3 x EnviroPod 200	Hi-flow bypass rate (cum/sec)	None	99	0.06
GPT	Copy of 1 x EnviroPod 200	Hi-flow bypass rate (cum/sec)	None	99	0.02
Post	Post-Development Node	% Load Reduction	None	None	6.4
Post	Post-Development Node	GP % Load Reduction	90	None	100
Post	Post-Development Node	TN % Load Reduction	45	None	52.8
Post	Post-Development Node	TP % Load Reduction	60	None	70.6
Post	Post-Development Node	TSS % Load Reduction	80	None	88.8
Sedimentation	SF Chamber	% Reuse Demand Met	None	None	0
Sedimentation	SF Chamber	Extended detention depth (m)	0.25	1	0.54
Swale	Swale	Bed slope	0.01	0.05	0.05
Urban	Driveway 529 sqm	Area Impervious (ha)	None	None	0.053
Urban	Driveway 529 sqm	Area Pervious (ha)	None	None	0
Urban	Driveway 529 sqm	Total Area (ha)	None	None	0.053
Urban	Hardstand bypass 860 sqm	Area Impervious (ha)	None	None	0.086
Urban	Hardstand bypass 860 sqm	Area Pervious (ha)	None	None	0
Urban	Hardstand bypass 860 sqm	Total Area (ha)	None	None	0.086
Urban	Landscape 1820 sqm	Area Impervious (ha)	None	None	0
Urban	Landscape 1820 sqm	Area Pervious (ha)	None	None	0.182
Urban	Landscape 1820 sqm	Total Area (ha)	None	None	0.182
Urban	Landscape bypass 340 sqm	Area Impervious (ha)	None	None	0
Urban	Landscape bypass 340 sqm	Area Pervious (ha)	None	None	0.034
Urban	Landscape bypass 340 sqm	Total Area (ha)	None	None	0.034
Urban	Roof 2112 sqm	Area Impervious (ha)	None	None	0.211
Urban	Roof 2112 sqm	Area Pervious (ha)	None	None	0
Urban	Roof 2112 sqm	Total Area (ha)	None	None	0.211

Only certain parameters are reported when they pass validation

Failing Parameters

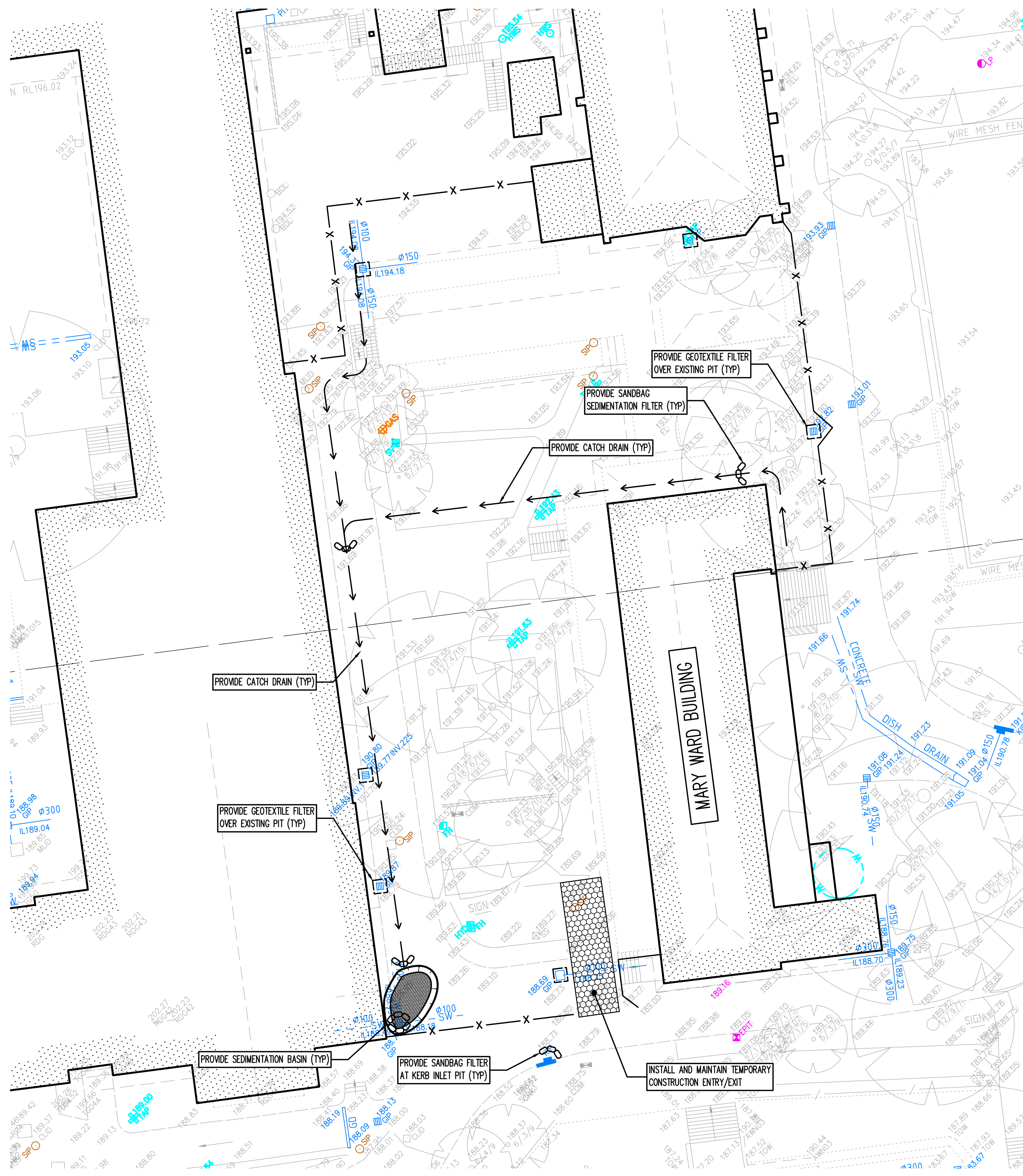
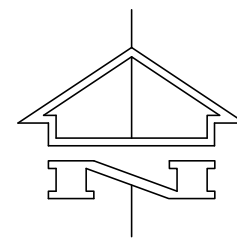
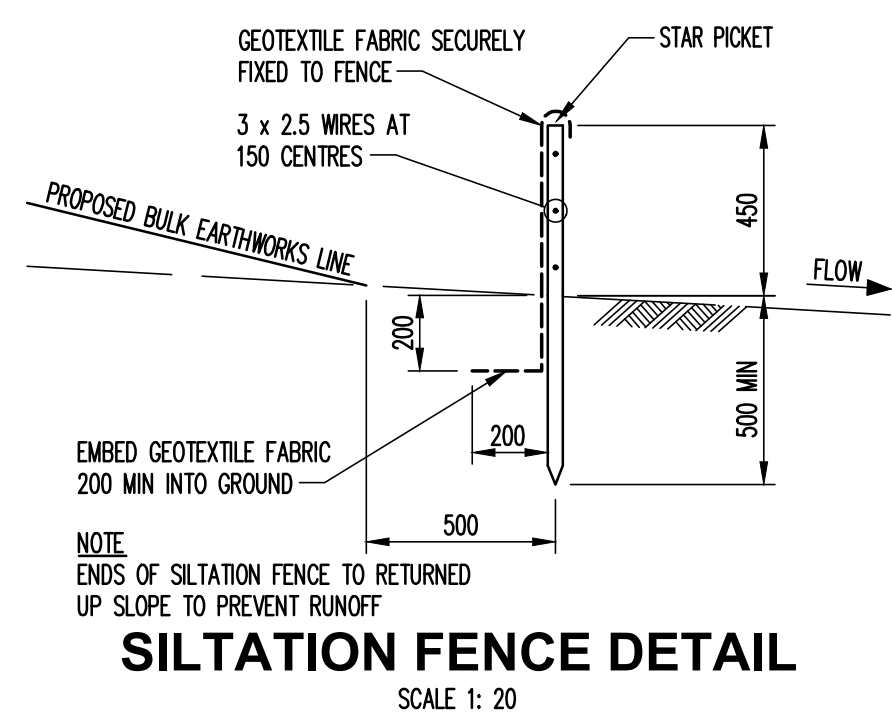
Node Type	Node Name	Parameter	Min	Max	Actual
Sedimentation	SF Chamber	Evaporative Loss as % of PET	75	125	0
Sedimentation	SF Chamber	Notional Detention Time (hrs)	8	12	0.0114
Sedimentation	SF Chamber	Total Nitrogen - k (m/yr)	500	500	1
Sedimentation	SF Chamber	Total Phosphorus - k (m/yr)	6000	6000	1
Sedimentation	SF Chamber	Total Suspended Solids - k (m/yr)	8000	8000	1

Only certain parameters are reported when they pass validation

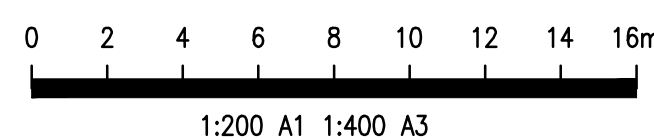
Appendix B

Mary Ward Civil Engineering Drawings

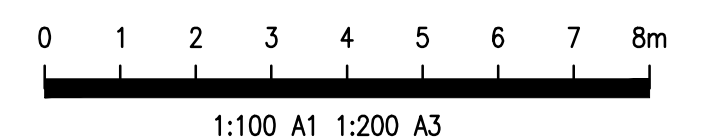
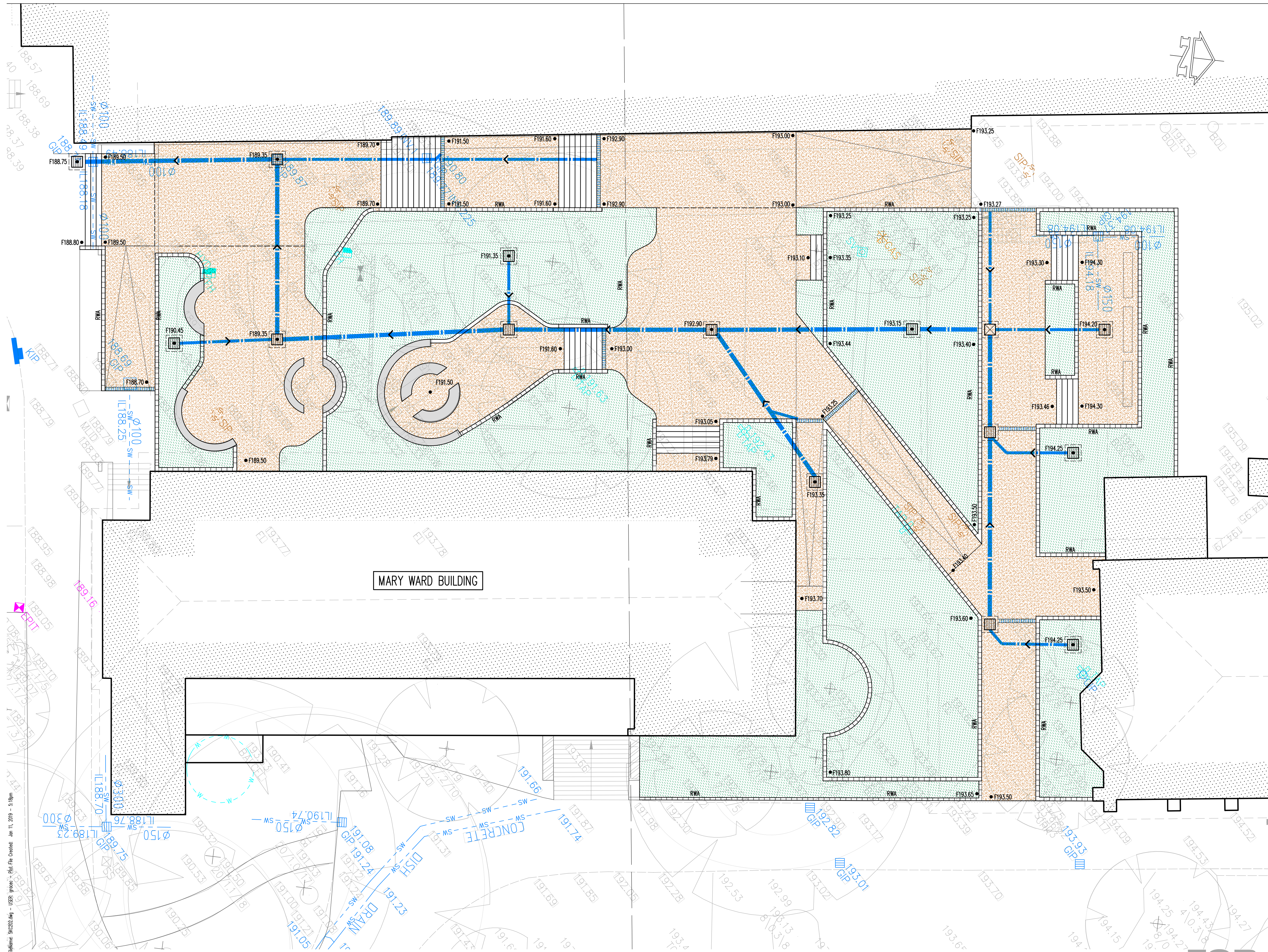
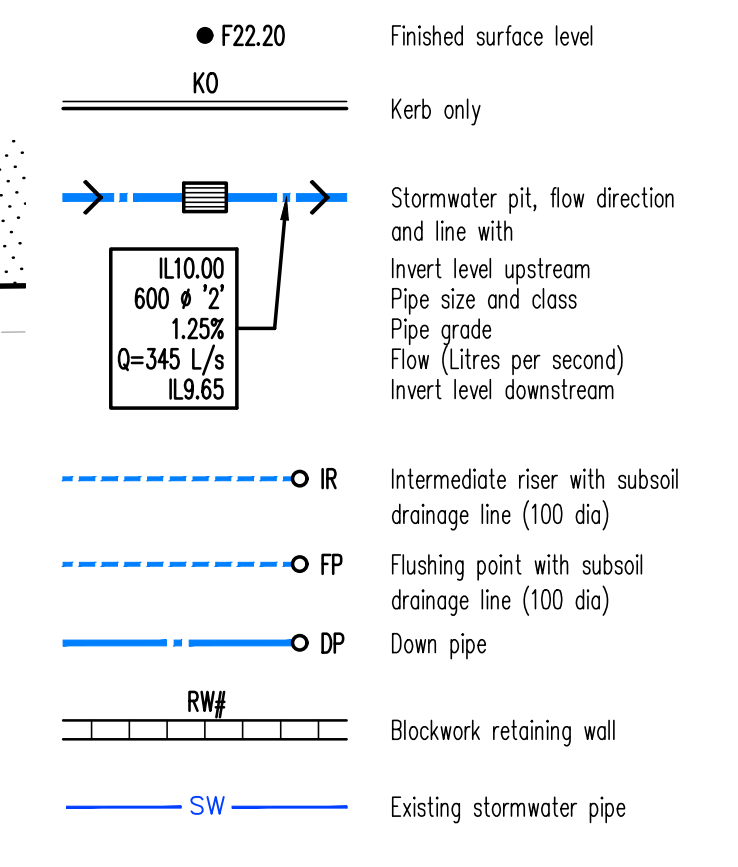
FOR APPROVAL



-
- Diagram illustrating the layout of a sediment control system:
- Batter
 - Siltation fence
 - Stormwater pit with Geotextile filter surround
 - Sandbag sediment trap
 - Catch drain



Scale : A1	Drawn	Authorised
1:200	DM	
Job No	Drawing No	Revision
181202	SKC201	P1
Plot File Created: Jan 17, 2019 - 2:03pm		



FOR APPROVAL

A1	0	1	2	3	4	5	6	7	8	9	10
P2	ISSUE FOR DA					GC	DM	11.01.19			
P1	ISSUE FOR DA					GC	DM	20.12.18			
Rev	Description					Eng	Draft	Date		Rev	Descri

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
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Civil Engineer

TTW **Taylor
Thomson
Whitting**

612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Project

MARY WARD BUILDING
LORETO NORMANHURST,
91-93 PENNANT HILLS ROAD,
NORMANHURST

Sheet Subject	SITEWORKS CONCEPT PLAN
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Scale : A1	Drawn	Authorised
1:100	DM	
Job No	Drawing No	Revision
181202	SKC202	P2
Plot File Created: Jan 11, 2019 - 5:18pm		