

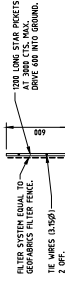
## SILT FENCE

—  
x  
—

TEMPORARY SITE ENTRY/EXIT

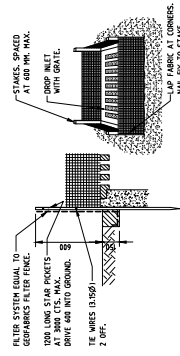
10

PROVIDE SILT TRAPS AROUND  
EXISTING DRAINAGE PITS



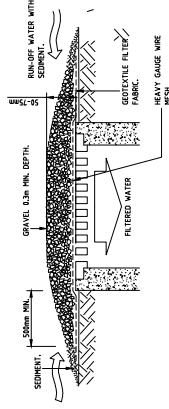
**SILT FENCE DETAIL:**

TO BE PLACED AROUND LOW SIDE OF PROPERTY BOUNDARY  
AND AROUND STORMWATER INLET STRUCTURES TO PREVENT  
SOIL WASHING OFF SITE.



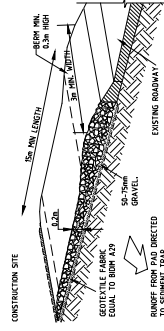
GEOTEXTILE FILTER FABRIC DROP  
INLET SEDIMENT TRAP.

TO BE PROVIDED AT GRATED PITS WITHIN PERVIOUS AREAS.



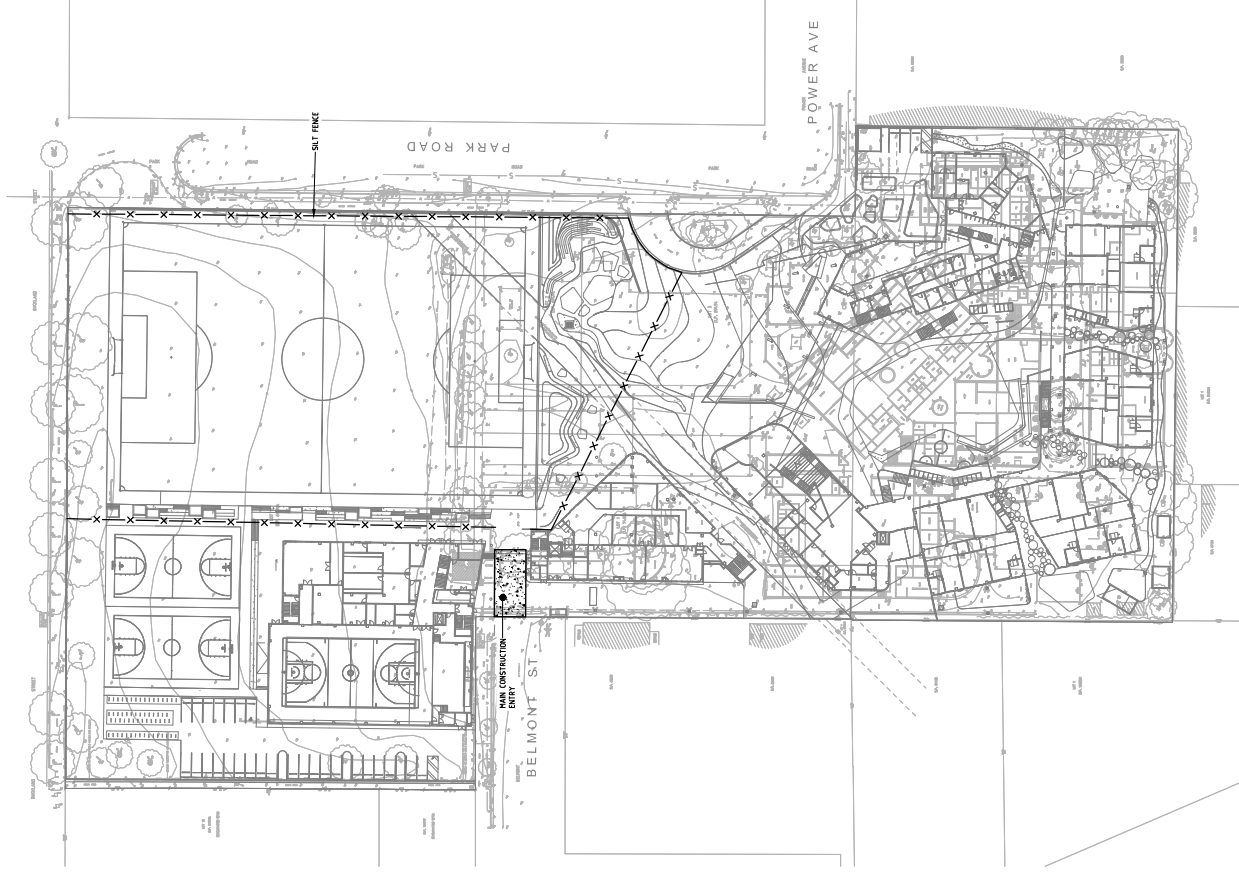
WIRE MESH AND GRAVEL DROP  
INLET SEDIMENT TRAP.

TO BE PROVIDED AT GRATED PITS WITHIN IMPERVIOUS AREAS.



TEMPORARY CONSTRUCTION ENTRY/EXIT

TEMPORARY CONSTRUCTION  
TO BE LOCATED AT VEHICLE EXIT FROM SITE

[illegible]Architect  
Tanner Kibbie Denton Architects Pbc Ltd

**Tanner Rutledge Deaton Architects Pty Ltd**  
PO Box 490 Darlinghurst NSW 1500 Australia  
Level 5, 10 Foster Street, Surry Hills NSW 2010 Australia

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TKD Arch



Tanner Kibbi

100 JOURNAL OF DOCUMENTATION

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Ground Floor, 12a Brown Street, Chatswood, NSW 2057

<sup>a</sup> author's presentation of data; source: Consulting Engineers Reg. Off.

**ALEXANDRIA PARK  
COMMUNITY SCHOOL**

DISPOSITION AND SEDIMENT

CONTROL PLAN

Date **SEPTEMBER 2017**  
Scale **B1**

1:500, 1:20

Job number

1170

Approved	Verified	Prepared
S.D.C.	J.L.	S.C.
00.00	00.00	00.00

14.09.17	14.09.17	14.09.17
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Amendment	Issuing number
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2	3
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## Appendix B

# Calculations

Job Alexandria Park Community School. Date 17.08.17

Design Information Summary

- \* OSD Design according to Sydney Water Requirement.

EXISTING CONDITION :

Area (TOTAL) = 2.74 ha

Area (impenetrable) = 1.36 ha

Post - Developed Condition :

Area (Total) = 2.74 ha

Area (impenetrable) = 1.45 ha

→ Sydney Water OSD Requirement :

OSD Storage Requirement =  $459 \text{ m}^3$

PSD Requirement = 856 L/s

Job Alexandria Park Community School

Date 17.08.17

OSD Calc:

Max. Ponding Depth = 0.4m

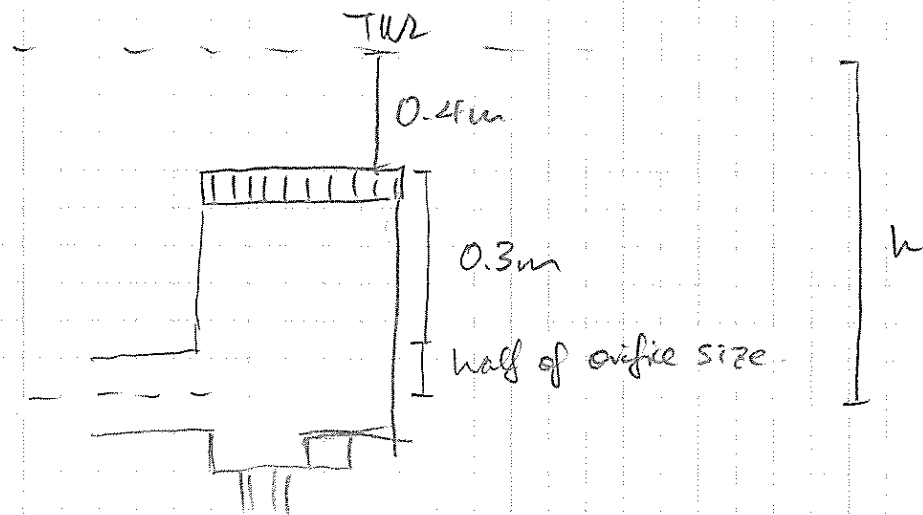
MIN. Ponding Depth = 0m

Avg. Depth = 0.2m

OSD BASIN AREA = 2348 m<sup>2</sup>

$$\begin{aligned}\text{VOL. PROVIDED} &= 2348 \text{ m}^2 \times 0.2 \text{ m} \\ &= 469.6 \text{ m}^3 > 459 \text{ m}^3 \quad \checkmark\end{aligned}$$

WITH 0.4m above grate of DCP,



USING  $Q = CA \sqrt{2gh}$  WITH

$$\begin{aligned}C &= 0.61 \\ g &= 9.81 \text{ m/s}^2\end{aligned}$$

$$d = 0.62 \text{ m}$$

## Jason Lee

---

**From:** Stormwater <Stormwater@sydneywater.com.au>  
**Sent:** Thursday, 17 August 2017 12:58 PM  
**To:** Jason Lee  
**Subject:** RE: OSD Requirements - Park Road, Alexandria (7 - 11 Park Road)

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Jason,

The revised On Site Detention requirements based on your revised post development impervious area are as follows:

- On Site Detention 459 cubic meter
- Permissible Site Discharge 856 L/s

Best Regards



**Jeya Jeyadevan** | Senior Capability Assessor

Customer Delivery | Sydney Water  
Level 7, 1 Smith St Parramatta NSW 2150  
PO Box 399 Parramatta NSW 2124  
T 8849 6118 | Mobile 0409 318 827 | Email [jeya.jeyadevan@sydneywater.com.au](mailto:jeya.jeyadevan@sydneywater.com.au)  
[sydneywater.com.au](http://sydneywater.com.au)

---

**From:** Jason Lee [mailto:JLee@woolacotts.com.au]  
**Sent:** Tuesday, 15 August 2017 2:23 PM  
**To:** Stormwater <Stormwater@sydneywater.com.au>  
**Cc:** JEYADEVAN, JEYA <JEYA.JEYADEVAN@sydneywater.com.au>  
**Subject:** RE: OSD Requirements - Park Road, Alexandria (7 - 11 Park Road)

Hi Jeya,

Post developed condition for the address above has changed. The impervious area has been reduced from 1.88ha to 1.45ha.

We are expecting the on-site detention storage requirement to decrease and permissible site discharge to increase as a result.

If you could please advise the updated OSD requirements for the address above, it would be greatly appreciated.

Existing Condition:

ATOTAL = 2.74 ha

Aimpervious = 1.36 ha

Post-Developed Condition:

ATOTAL = 2.74 ha

Aimpervious = 1.45 ha



Kind Regards,

**Jason Lee** | Civil Engineer

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---

**From:** Stormwater [<mailto:Stormwater@sydneywater.com.au>]

**Sent:** Monday, 5 June 2017 11:27 AM

**To:** Jason Lee <[JLee@woolacotts.com.au](mailto:JLee@woolacotts.com.au)>

**Cc:** JEYADEVAN, JEYA <JEYA.JEYADEVAN@sydneywater.com.au>  
**Subject:** RE: OSD Requirements - Park Road, Alexandria (7 - 11 Park Road)

Jason,

Yes. The details as per your email dated 2 June 2017 is correct.

Best Regards



**Jeya Jeyadevan** | Senior Capability Assessor

Customer Delivery | Sydney Water  
Level 7, 1 Smith St Parramatta NSW 2150  
PO Box 399 Parramatta NSW 2124  
T 8849 6118 | Mobile 0409 318 827 | Email [jeya.jeyadevan@sydneywater.com.au](mailto:jeya.jeyadevan@sydneywater.com.au)  
[sydneywater.com.au](http://sydneywater.com.au)

---

**From:** Jason Lee [<mailto:JLee@woolacotts.com.au>]  
**Sent:** Friday, 2 June 2017 3:45 PM  
**To:** Stormwater <[Stormwater@sydneywater.com.au](mailto:Stormwater@sydneywater.com.au)>  
**Cc:** JEYADEVAN, JEYA <[JEYA.JEYADEVAN@sydneywater.com.au](mailto:JEYA.JEYADEVAN@sydneywater.com.au)>  
**Subject:** RE: OSD Requirements - Park Road, Alexandria (7 - 11 Park Road)

Hi Jeya,

Thank you for getting back so quickly.

As per our conversation, could I just get a confirmation from you that OSD is still required for the site, but Sydney Water will not insist on OSD being above 100YR ARI flood level if site constraints do not allow it?

Thank you.

Kind Regards,

**Jason Lee** | Civil Engineer

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---

**From:** Jason Lee  
**Sent:** Friday, 2 June 2017 3:20 PM  
**To:** 'Stormwater' <[Stormwater@sydneywater.com.au](mailto:Stormwater@sydneywater.com.au)>  
**Cc:** 'jeya.jeyadevan@sydneywater.com.au' <[jeya.jeyadevan@sydneywater.com.au](mailto:jeya.jeyadevan@sydneywater.com.au)>  
**Subject:** RE: OSD Requirements - Park Road, Alexandria (7 - 11 Park Road)

Hi Jeya,

I would just like to confirm whether the site being flood affected by 100YR ARI and PMF events have been taken into the OSD requirement or not.

Thank you.

Kind Regards,

**Jason Lee** | Civil Engineer

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---

**From:** Stormwater [<mailto:Stormwater@sydneywater.com.au>]  
**Sent:** Friday, 2 June 2017 2:59 PM  
**To:** Jason Lee <[JLee@woolacotts.com.au](mailto:JLee@woolacotts.com.au)>  
**Subject:** RE: OSD Requirements - Park Road, Alexandria (7 - 11 Park Road)

Jason,

The On Site Detention requirements for the 27,400 square meters site at 7 – 11 Park Road, Alexandria, are as follows:

- On Site Detention 566 cubic meter
- Permissible Site Discharge 818 L/s

The approval for the On Site Detention would only be given as part of the Section 73 application for this development. The On Site Detention is to be designed according to the above values and submitted to Sydney Water for approval with the Section 73 application. The following details are to be included in your submission for On Site Detention approval:

- Location of the On Site Detention in relation to the development
- Location of the On Site Detention in relation to overall stormwater network of the property
- Plan and Elevation of the On Site Detention tank with all dimensions
- Orifice plate calculation

Best Regards



**Jeya Jeyadevan** | Senior Capability Assessor

**Customer Delivery** | Sydney Water

Level 7, 1 Smith St Parramatta NSW 2150

PO Box 399 Parramatta NSW 2124

T 8849 6118 | **Mobile** 0409 318 827 | **Email** [jeya.jeyadevan@sydneywater.com.au](mailto:jeya.jeyadevan@sydneywater.com.au)  
[sydneywater.com.au](http://sydneywater.com.au)

---

**From:** Jason Lee [<mailto:JLee@woolacotts.com.au>]  
**Sent:** Tuesday, 30 May 2017 8:43 AM  
**To:** JEYADEVAN, JEYA <[JEYA.JEYADEVAN@sydneywater.com.au](mailto:JEYA.JEYADEVAN@sydneywater.com.au)>  
**Cc:** Stormwater <[Stormwater@sydneywater.com.au](mailto:Stormwater@sydneywater.com.au)>  
**Subject:** FW: OSD Requirements - Park Road, Alexandria

Hi Jeya,



Just following up on OSD requirement advice sought for the address above about a month ago. If you could please advise the OSD requirement as we need it quite urgently, it would be greatly appreciated.

Thank you.

Kind Regards,

**Jason Lee** | Civil Engineer

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---

**From:** Jason Lee

**Sent:** Monday, 24 April 2017 11:38 AM

**To:** [jeya.jeyadevan@sydneywater.com.au](mailto:jeya.jeyadevan@sydneywater.com.au)

**Subject:** OSD Requirements - Park Road, Alexandria

Hi Jeya,

I would like to enquire for advice regarding OSD on a proposed school development at Park Road, Alexandria.

The site is within the City of Sydney Catchment and following investigation, it is flood affected by both 100yr ARI and PMF events.

As per Council's Stormwater Drainage Manual, the requirements for OSD are determined by Sydney Water.

The existing and post-developed site conditions are as follows:

Existing Condition:

A<sub>TOTAL</sub> = 2.74 ha

A<sub>impervious</sub> = 1.36 ha



Post-Developed Condition:

$A_{TOTAL} = 2.74 \text{ ha}$

$A_{impervious} = 1.88 \text{ ha}$



Could you please provide advice regarding the OSD requirements including potential connection/discharge locations for the site?

If you require any additional information please do not hesitate to contact.

Kind Regards,

**Jason Lee** | Civil Engineer

**WOOLACOTTS CONSULTING ENGINEERS**

T +61 2 8241 9900 | M

[www.woolacotts.com.au](http://www.woolacotts.com.au)