PROPOSED CHILDCARE CENTRE AT 65 VILLAGE HIGH ROAD, VAUCLUSE

GENERAL

- G1 These drawings shall be read in conjunction with all architectural and other consultants drawings and specifications and with such other written instructions and sketches as may be issued during the course of the Contract. Any discrepancies shall be referred to the Superintendent before proceeding with any related works. Construction from these drawings, and their associated consultant's drawings is not to commence until approved by the Local Authorities.
- G2 All materials and workmanship shall be in accordance with the relevant and current Standards Australia codes and with the By-Laws and Ordinances of the relevant building authorities except where varied by the project specification.
- All set out dimensions shall be obtained from Architect's and Engineer's details. All discrepancies shall be G3 referred to the Architect and Engineer for decision before proceeding with related work.
- G4 During construction the structure shall be maintained in a stable condition and no part shall be overstressed. Temporary bracing shall be provided by the builder/subcontractor to keep the works and excavations stable at all times.
- Unless noted otherwise levels are in metres and dimensions are in millimetres. G5 G6 The alignment and level of all services shown are approximate only. The contractor shall confirm the position and level of all services prior to commencement of construction. Any damage to services shall be rectified at
- G7 Any substitution of materials shall be approved by the Engineer and included in any tender.
- G8 All services, or conduits for servicing shall be installed prior to commencement of pavement construction.
- G9 Subsoil drainage, comprising 100 agriculture pipe in geo-stocking to be placed as shown and as may be directed by the superintendent. Subsoil drainage shall be constructed in accordance with the relevant local authority construction specification.
- G10 The structural components detailed on these drawings have been designed in accordance with the relevant Standards Australia codes and Local Government Ordinances for the following loadings. Refer to the Architectural drawings for proposed floor usage. Refer to drawings for live loads and superimposed dead loads

DRAINAGE NOTES

the contractors expense.

- D1 All drainage levels to be confirmed on site, prior to any construction commencing.
- D2 All pipes within the property to be a minimum of 100 dia upvc @ 1% minimum grade, uno. D3 All pits within the property are to be fitted with "weldlok" or approved equivalent grates:
- Light duty for landscaped areas - Heavy duty where subjected to vehicular traffic
- **D4** All pits within the property to be constructed as one of the following: 1) Precast stormwater pits 2) Cast insitu mass concrete 3) Cement rendered 230mm brickwork subject to the relevant local authority construction specification.
- D5 Ensure all grates to pits are set below finished surface level within the property. Top of pit RL's are approximate only and may be varied subject to approval of the engineer. All invert levels are to be achieved.
- **D6** Any pipes beneath relevant local authority road to be rubber ring jointed RCP, uno.
- D7 All pits in roadways are to be fitted with heavy duty grates with locking bolts and continuous hinge.
- **D8** Provide step irons to stormwater pits greater than 1200 in depth.
- D9 Trench back fill in roadways shall comprise sharp, clean granular back fill in accordance with the relevant local authority specification to non-trafficable areas to be compacted by rodding and tamping using a flat plate vibrator.
- **D10** Where a high early discharge (hed) pit is provided all pipes are to be connected to the hed pit, uno.
- D11 Down pipes shall be a minimum of dn100 sw grade upvc or 100 x100 colorbond/zincalume steel, uno.
- D12 Colorbond or zincalume steel box gutters shall be a minimum of 450 wide x 150 deep.
- steel, uno. **D14** Subsoil drainage shall be provided to all retaining walls & embankments, with the lines feeding into the stormwater drainage system, uno.

D13 Eaves gutters shall be a minimum of 125 wide x 100 deep (or of equivalent area) colorbond or zincalume

EROSION AND SEDIMENT CONTROL NOTES

- E1 These notes are to be read in conjunction with erosion and sediment control details in this drawing set.
- E2 The contractor shall implement all soil erosion and sediment control measures as necessary and to the satisfaction of the relevant local authority prior to the commencement of and during construction. No disturbance to the site shall be permitted other than in the immediate area of the works and no material shall be removed from the site without the relevant local authority approval. All erosion and sediment control devices to be installed and maintained in accordance with standards outlined in nsw department of housing's "managing urban stormwater - soils and constructions".
- E3 Place straw bales length wise in a row as parallel as possible to the site contours, uno. Bale ends to be tightly butted. Bales are to be placed so that straws are parallel to the row. Bales are to be placed 1.5m to 2m downslope from the toe of the disturbed batter, uno.
- E4 Council approved filter fabric to be entrenched 150mm deep upslope towards disturbed surface. Fabric to be a minimum SF2000 or better. Fix fabric to posts with wire ties or as recomended with manufacturer's specifications. Fabric joints to have a minimum of 150mm overlap. Wire to be strung between posts with filter fabric overlap to prevent sagging.
- E5 Stabalised entry/exit points to remain intact until finished driveway is complete. Construction of entry/exit points to be maintained and repaired as required so that it's function is not compromised. Construction of entry/exit point to be in accordance with the detail contained within this drawing set.
- E6 All drainage pipe inlets to be capped until: - downpipes connected - pits constructed and protected with silt barrier
- E6 Provide and maintain silt traps around all surface inlet pits until catchment is revegetated or paved.
- E7 The contractor shall regularly maintain all erosion and sediment control devices and remove accumulated silt from such devices such that more than 60% of their capacity is lost. All the silt is to be placed outside the limit of works. The period for maintaining these devices shall be at least until all disturbed areas are revegetated and further as may be directed by the superintendent or council.
- E8 The contractor shall implement dust control by regularly wetting down (but not saturating) disturbed area. E9 Topsoil shall be stripped and stockpiled outside hazard areas such as drainage lines. This topsoil shall be
- respread later on areas to be revegetated and stabilised only, (i.e. all footpaths, batters, site regarding areas, basins and catchdrains). Topsoil shall not be respread on any other areas unless specifically instructed by the superintendent. If they are to remain for longer than one month stockpiles shall be protected from erosion by covering them with a mulch and hydroseeding and, if necessary, by locating banks or drains downstream of a stockpile to retard silt laden runoff.
- E10 Lay 300 wide minimum turf strip on 100 topsoil behind all kerb and gutter with 1000 long returns every 6000 and around structures immediately after backfilling as per the relevant local authority specification.
- **E11** The contractor shall grass seed all disturbed areas with an approved mix as soon as practicable after completion of earthworks and regrading.
- E12 Revegetate all trenches immediately upon completion of backfilling.
- E13 When any devices are to be handed over to council they shall be in clean and stable condition.

STANDARD LINE TYPES AND SYMBOLS

	PROPOSED KERB & GUTTER
	EXISTING KERB & GUTTER
	PROPOSED BELOW GROUND PIPELINE
	PROPOSED SUSPENDED PIPELINE
	EXISTING PIPELINE
ss ss	SUBSOIL DRAINAGE LINE
	PROPOSED KERB INLET PIT
	EXISTING KERB INLET PIT
	PROPOSED JUNCTION OR INLET PIT
	EXISTING JUNCTION OR INLET PIT
	DESIGN CENTRELINE
	EXISTING EDGE OF BITUMEN
TTT	TELECOMUNICATION CONDUIT
G G	GAS MAIN
— v — v — v —	WATER MAIN
2 2 2	SEWER MAIN
vvv	UNDERGROUND ELECTRICITY CABLES
	PERMANENT MARK & S.S.M.
Δ	BENCH MARK, SURVEY STATION

RECOMMENDED MAINTENA	NCE SCHED	DULE	
DISCHARGE CONTROL PIT (DCP)	FREQUENCY	RESPONSIBILITY	PROCEDURE
Inspect flap valve and remove any blockage.	Six monthly	Owner	Remove grate. Ensure flap valve moves freely and remove any blockages or debris.
Inspect screen and clean.	Six monthly	Owner	Revove grate and screen if required and clean it.
Inspect & remove any blockage of orifice.	Six monthly	Owner	Remove grate & screen to inspect orifice. see plan for location of dcp.
Inspect dcp sump & remove any sediment-sludge.	Six monthly	Owner	Remove grate and screen. Remove sediment/sludge build-up and check orifice and flap valve clear.
Inspect grate for damage or blockage.	Six monthly	Owner	Check both sides of grate for corrosion, (especially corners and welds) damage or blockage.
Inspect return pipe from storage and return any blockage.	Six monthly	Owner	Remove grate and screen. ventilate underground storage if present. open flap valve and remove any blockages in return line. Check for sludge/debris on upstream side of return line.
Inspect outlet pipe and remove any blockage.	Six monthly	Maintenance Contractor	Remove grate and screen. ventilate underground storage if present. Check orifice and remov any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for sludge/debris on upstream side of return line.
Check fixing of step irons is secure.	Six monthly	Maintenance Contractor	Remove grate and ensure fixings secure prior to placing weight on step iron.
Inspect overflow weir & remove any blockage.	Six monthly	Maintenance Contractor	Remove grate and open cover to ventilate underground storage if present. ensure weir clear of blockages.
Empty basket at overflow weir (if present).	Six monthly	Maintenance Contractor	Remove grate and ventilate underground storage chamber if present. Empty basket, check fixings secure and not corroded.
Check attachment of orifice plate to wall of pit (gaps less than 5 mm).	Annually	Maintenance Contractor	Remove grate and screen. ensure plate mounted securely, tighten fixings if required. seal gaps as required.
Check attachment of screen to wall of pit.	Annually	Maintenance Contractor	Remove grate and screen. ensure screen fixings secure. repair as required.
Check screen for corrosion.	Annually	Maintenance Contractor	Remove grate and examine screen for rust or corrosion, especially at corners or welds.
Check attachment of flap valve to wall of .	Annually	Maintenance Contractor	Remove grate. Ensure fixings of valve are secure.
Check flap valve seals against wall of pit.	Annually	Maintenance Contractor	Remove grate. fill pit with water and check that flap seals against side of pit with minimal leakage.
Check any hinges of flap valve move freely.	Annually	Maintenance Contractor	Remove grate. Test valve hinge by moving flap to full extent.
Inspect dcp walls (internal and external, if appropriate) for cracks or spalling.	Annually	Maintenance Contractor	Remove grate to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as required.
Check step irons for corrosion.	Annually	Maintenance Contractor	Remove grate. Examine step irons and repair any corrosion or damage.
Check orifice diameter correct and retains sharp edge.	Five yearly	Maintenance Contractor	Compare diameter to design (see work-as- executed) and ensure edge is not pitted or damaged.
STORAGE			
Inspect & remove any blockage of orifice.	Six monthly	Owner	Remove grate and screen. remove sediment/sludge build-up.
Check orifice diameter correct and retains sharp edge.	Six monthly	Owner	Remove blockages from grate and check if pit blocked.
Inspect screen and clean.	Six monthly	Owner	Remove debris and floatable material likely to be carried to grates.
Check attachment of orifice plate to wall of pit (gaps less than 5 mm).	Annually	Maintenance	Remove grate to inspect internal walls. repair as required. clear vegetation from external wall if necessary and repair as required.
Check attachment of screen to wall of pit.	Five yearly	Maintenance Contractor	Compare actual storage available with work-as executed plans. If volume loss is greater than 5%, arrange for reconstruction to replace the volume lost. Council to be notified of the proposal.
Check attachment of screen to wall of nit	Five yearly	Maintenance	Check along drainage lines and at nits for subsidence likely to indicate leakages

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Inspect grate for damage or blockage.	Six monthly	Owner	Check both sides of grate for corrosion, (especially corners and welds) damage or blockage.
Inspect return pipe from storage and return any blockage.	Six monthly	Owner	Remove grate and screen. ventilate underground storage if present. open flap valve and remove any blockages in return line. Check for sludge/debris on upstream side of return line.
Inspect outlet pipe and remove any blockage.	Six monthly	Maintenance Contractor	Remove grate and screen. ventilate underground storage if present. Check orifice and remove any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for sludge/debris on upstream side of return line.
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Check attachment of screen to wall of pit.	Five yearly	Maintenance	Check along drainage lines and at pits for subsidence likely to indicate leakages.

STANDARD LINE TYPES AND SYMBOLS



OVERLAND FLOW PATH GUTTER DRAINAGE DIRECTION DOWNPIPE DOWNPIPE WITH SIDE OVERFLOW PERVIOUS (GRASSED) AREAS EXISTING (PRE-DEVELOPMENT) RL POST DEVELOPMENT RL

GRADED IMPERVIOUS AREA (ROOF, CONC SLABS ETC)

CROSSING PIPES

SEDIMENT FENCE

NODE POINT

LEGEND

AHD AG ARI BG BWL	Australian height datum Ag-pipe (Sub soil drainage) Average recurrence interval Box Gutter Bottom water level	SS SU TW TWL U/S
CL	Cover level	VG
CO	Clean out inspection opening	UNO
DCP	Discharge control pit	
DP	Down pipe	
DRP	Dropper pipe	
EBG	Existing box gutter	
EDP	Existing down pipe	
EEG	Existing eaves gutter	
EG	Eaves gutter	
FRC	Fiber reinforced concrete	
FW	Floor waste	
GD	Grated drain	
GSIP	Grated surface inlet pit	
HED	High early discharge	
HP	High point of gutter	
IL	Invert level	
IO	Inspection opening	
O/F	Overflow	
OSD	On-site detention	
PSD	Permissible site discharge	
P1	Pipe 1	
RCP	Reinforced concrete pipe	
RHS	Rectangular hollow section	
RL	Reduced level	
KKJ	Rubber ring joint	
KK I	Rainwater re-use tank	

Stainless steel Box gutter sump Top of wall Top water level Underside of slab Vally gutter Unless noted otherwise

Rain water head Rain water outlet

Sealed lid access pit Spreader pipe

RWH

RWO

SLAP

SP

SPR

Spreader

С	26.11.20	REVISED	TO SUIT A	RCHITECT	URAL	PLANS	F.I.
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Phone: (02) 8020 2960 Email: info@engineeringstudio.com.au Web: www.engineeringstudio.com.au							
PROPOSED CHILDCARE CENTRE AT 65 VILLAGE HIGH ROAD, VAUCLUSE FOR VAUCLUSE EARLY LEARNING PTY LTD							
GENERAL NOTES							
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NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO

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CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER

ALL DIMENSIONS ARE IN MILLIMETRES & ALL LEVELS ARE IN METRES, U.N.O. (UNLESS NOTED OTHERWISE).

DURING EXCAVATION WORK THE STRUCTURE SHALL BE MAINTAINED IN A

ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS & THE SPECIFICATION.

EXISTING SERVICES WHERE SHOWN HAVE BEEN PLOTTED FROM SUPPLIED DATA AND SUCH THEIR ACCURACY CAN NOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK.

ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACK FILLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL COUNCIL.

ALL TRENCH BACK FILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.

ON COMPLETION OF STORMWATER INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS, UNLESS DIRECTED OTHERWISE.

CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS UNLESS DIRECTED OTHERWISE.

SEDIMENT AND EROSION CONTROL NOTES

SEDIMENT AND EROSION CONTROL SHALL BE EFFECTIVELY MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND SHALL NOT BE REMOVED UNTIL THE SITE HAS BEEN STABILISED OR LANDSCAPED TO THE SUPERINTENDENT'S SATISFACTION

A SINGLE ALL WEATHER ACCESS WAY WILL BE PROVIDED AT THE FRONT OF THE PROPERTY CONSISTING OF 50-75 AGGREGATE OR SIMILAR MATERIAL AT A MINIMUM THICKNESS OF 150 LAID OVER NEEDLE-PUNCHED GEOTEXTILE FABRIC AND CONSTRUCTED PRIOR TO COMMENCEMENT OF WORKS.

TO THE ENGINEER FOR APPROVAL.

DOWN PIPES SHALL BE A MINIMUM OF DN100 SW GRADE uPVC OR 100 X 100 COLORBOND OR ZINCALUME STEEL, U.N.O.

BOX COLORBOND OR ZINCALUME STEEL. GUTTERS SHALL BE A MINIMUM OF 450 WIDE X 150 DEEP.

EAVES GUTTERS SHALL BE A MINIMUM OF 125 WIDE X 100 DEEP (OR OF EQUIVALENT AREA) COLORBOND OR ZINCALUME STEEL.

SUBSOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS & EMBANKMENTS, WITH THE LINES FEEDING INTO THE STORMWATER DRAINAGE SYSTEM.

<u>COMMENCEMENT OF WORKS</u> THE CONTRACTOR SHALL ENSURE THAT NO SPOIL OR FILL ENCROACHES

UPON ADJACENT AREAS FOR THE DURATION OF WORKS.

THE CONTRACTOR SHALL ENSURE THAT KERB INLETS AND DRAINS RECEIVING STORMWATER SHALL BE PROTECTED AT ALL TIMES DURING DEVELOPMENT. KERB INLET SEDIMENT TRAPS SHALL BE INSTALLED ALONG THE IMMEDIATE VICINITY ALONG THE STREET FRONTAGE.

SEDIMENT FENCING SHALL BE SECURED BY POST (WHERE METAL STAR PICKETS ARE USED PLASTIC SAFETY CAPS SHALL BE USED) AT 2000 INTERVALS WITH GEOTEXTILE FABRIC EMBEDDED 200 IN SOIL.

ALL TOPSOIL STRIPPED FORM THE SITE AND STOCKPILED DOES NOT INTERFERE WITH DRAINAGE LINES AND STORMWATER INLETS AND WILL BE SUITABLY COVERED WITH AN IMPERVIOUS MEMBRANE MATERIAL AND SCREENED BY SEDIMENT FENCING.







permission of Engineering Studio.

Engineering<mark>Studio</mark> Phone: (02) 8020 2960

Email: info@engineeringstudio.com.au PO Box 7191 Web: www.engineeringstudio.com.au BAULKHAM HILLS NSW 2153

DESIGNED BY:

F.I.

F.I.

DRAWN BY:

Civil & Structural Postal Address

PROPOSED CHILDCARE CENTRE AT 65 VILLAGE HIGH ROAD, VAUCLUSE FOR VAUCLUSE EARLY LEARNING PTY LTD

SEDIMENT & E	ROSION CONT	ROL PLAN
JOB NUMBER:	DWG NUMBER:	ORIGINAL SIZE:
20418	C01.01	A1

JUNE 2020

1:100 U.N.O.

DATE:

SCALE:







DN80 RISING MAIN DIRECTED



BASEMENT STORMWATER DRAINAGE PLAN

PUMP OUT PIT NOTE:

AUDIBLE & FLASHING ALARM SHALL BE POSITIONED AT THE FI FLOOR LEVEL OF EACH COMMON STAIRWAY & A FLASHING LIG EACH COMMON ENTRANCE TO THE CARPARK AREA IN THE CA PUMP FAILURE.

STANDARD PUMP OUT DESIGN NOTES

- THE PUMP OUT SYSTEM SHALL BE DESIGNED TO BE OPERATED IN THE FOLLOWING MANNER:-
- > THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATIVELY SO AS TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.
- > A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.
- > A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE AND DRAIN THE TANK TO THE LEVEL OF THE LOW-LEVEL FLOAT.
- > A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.
- > AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT AND A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.

PUMP DESIGN SUMMARY

BASEMENT PUMP DESIGNED IN ACCORDANCE WITH AS3500

1:10 A.R.I. 2 HOUR STORM A.R.I. x 2 AREA OF UNCOVERED DRIVEWAY RAMP

VOLUME OF RUNOFF

PUMP HEAD 1:100 ARI 5 MIN STORM MINIMUM PUMP OUT RATE

PUMP STORAGE PROVIDED

2-DAVEY DT37 SUBMERSIBLE SUMP PUMPS OR APPROVED EQ

	STO - ALL STO - ALL LEG	RMWAT DRAINAGE RMWATER DRAINAGE END	ER DRAIN LINES SHALL DRAINAGE PI LINES SHALL	AGE NOTES BE uPVC (CLASS S PE, U.N.O. BE LAID @ 1% FA	SH) LL MIN, U.N	1.0.
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REMENTS									
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F.I.

NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

1:20

NOTE:

WALL FACE 300

1. FIRST RUNG 150mm DOWN FROM TOP,

THEN SPACED AT 300 CENTRES. 2. STEP IRON MATERIAL, 20m DIAMETER

MILD STEEL, HEAVY GALVANISED.

STEP IRONS FOR DRAINAGE PITS





TYPICAL ENVIROPOD INSTALLATION DETAIL N.T.S.

	CALE OFF DRAWINGS LANS. VERIFY DIMENS	B. REFER TO SIONS ON SI	TE			
ILING/PAVING/TOPPING						
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	В	17.07.20	REVISED	TO SUIT ARBORIST CO	MMENTS	F.I.
_ WEEP HOLES 3 x PLACES	Α	01.07.20	ISSUED	FOR APPROVAL		F.I.
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