

LOCATION PLAN
N.T.S

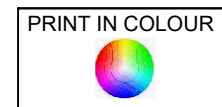
CHILDCARE CENTRE AT 104 WEST STREET, MENZIES

For

MOUNT ISA DAY NURSERY AND KINDERGARTEN

SURVEY INFORMATION	
Surveyor:	- M.H LODEWYK CONSULTING SURVEYOR - JPS
Property Description:	- CHILDCARE CENTRE
Location:	- 104 WEST STREET, MENZIES
Local Authority:	- MOUNT ISA CITY COUNCIL
Level Datum:	- AHD
Bench Mark:	- LEVEL DATUM FROM PSM 181244

DRAWING INDEX		
Drawing Number	Drawing Description	Revision
3155-01-001	COVER SHEET AND DRAWING INDEX	A
3155-01-002	EXISTING SITE FEATURES	A
3155-01-003	GENERAL LAYOUT	A
3155-01-004	EARTHWORKS	A
3155-01-005	CARPARK LEVELS	A
3155-01-006	PAVEMENT	A
3155-01-007	CONCRETE DETAILS	A
3155-01-008	FOOTPATH SECTIONS	A
3155-01-009	SETOUT	A
3155-01-010	STORMWATER	A
3155-01-011	STORMWATER LONGITUDINAL SECTIONS	A
3155-01-012	STORMWATER SETOUT AND DETAILS	A
3155-01-013	STORMWATER CATCHMENTS AND CALCULATIONS	A
3155-01-014	RETAINING WALL NOTES	A
3155-01-015	RETAINING WALL DETAILS	A
3155-01-016	SIGNS, LINEMARKING & PARKING FURNITURE	A
3155-01-017	EROSION AND SEDIMENT CONTROL	A
3155-01-018	SAFETY IN DESIGN RISK REGISTER	A



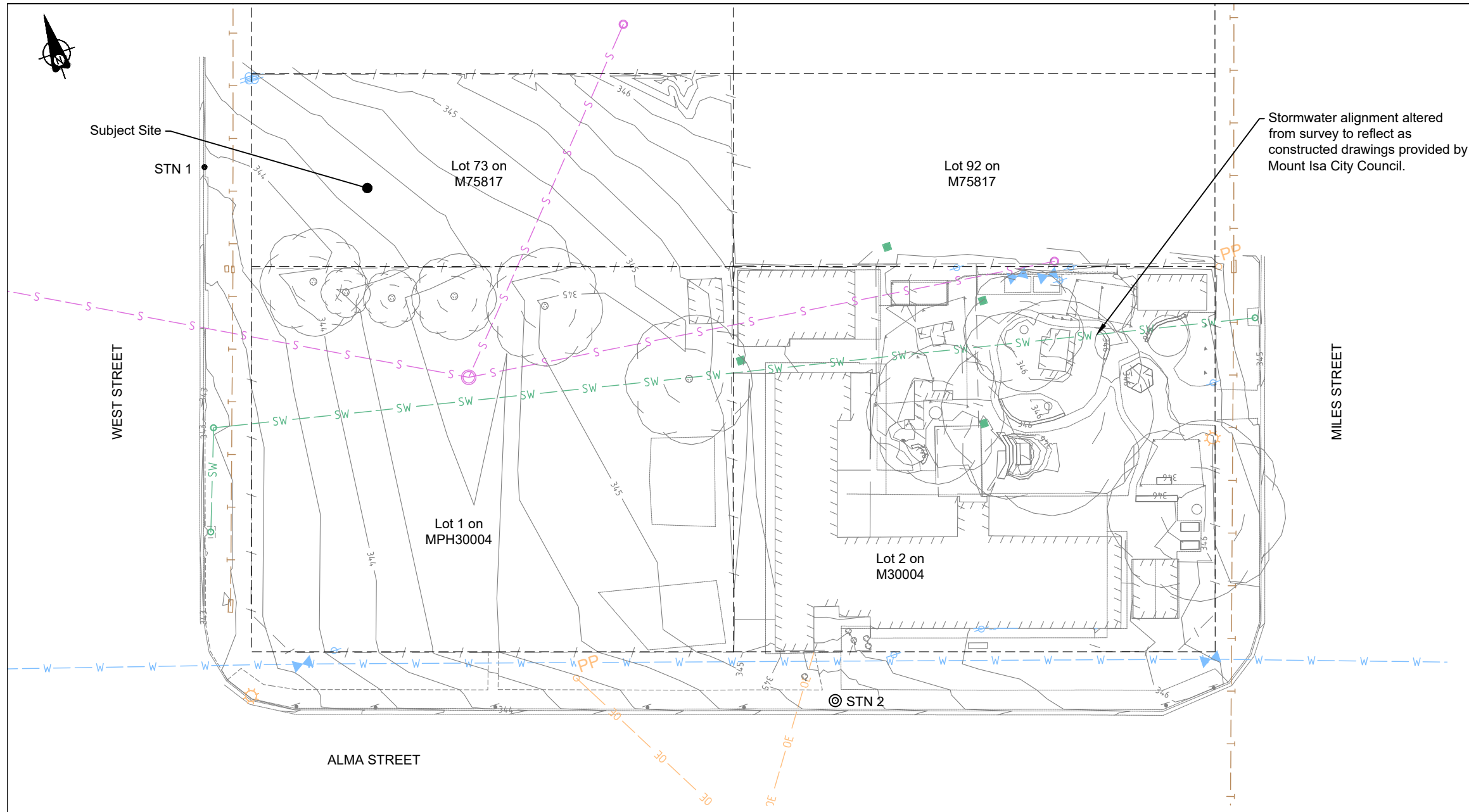
FOR APPROVAL
(NOT FOR CONSTRUCTION)

No.	Date	Revisions	Drafted	Designed	Approved	RPEQ No.
A	17/02/2026	FOR APPROVAL				19819

PARAGON Consulting Engineers Pty Ltd

Address: 95 Sydney Street
P.O. Box 1175
Mackay QLD 4740
Telephone: (07) 4957 7330
Facsimile: (07) 4957 7334
E-Mail: mail@paragonce.com
Web Site: www.paragonce.com
ABN No: 40 109 991 988

Client:	MOUNT ISA DAY NURSERY AND KINDERGARTEN	Project:	CHILDCARE CENTRE AT 104 WEST STREET, MENZIES	Detail:	COVER SHEET AND DRAWING INDEX	Designed:	R.HUSKING	Scale(s):	N.T.S.
						Reviewed:	B.PURNELL	Datum:	AHD
						Approved:	B.PURNELL RPEQ 19819	PCE Job No.:	3155-01
						Drawing No.:	3155-01-001	Rev. No.:	A



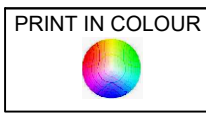
LEGEND	
---	Existing Lot Boundary
⊙ Δ	Existing Survey Marker
—2.00—	Existing Contours
- - - - -	Existing Top of Batter
- - - - -	Existing Change of Grade
- - - - -	Existing Bitumen Edge
=====	Existing Barrier Kerb & Channel
	Existing Building Edge
- - - - -	Existing Concrete Edge
- - / - -	Existing Fence
⊙	Existing Signs
⊙	Existing Trees
—OE—	Existing Overhead Electrical Line
⊙	Existing Street Lighting
⊙PP	Existing Power Poles
—S—	Existing Gravity Sewer & Manhole
—SW—	Existing Stormwater Pipe & Manhole
■	Existing Stormwater Pits
—W—	Existing Potable Water Line & Fire Hydrant
⊙	Existing Potable Water Gate Valve
⊙	Existing Potable Water Meter
—T—	Existing Telecommunication Cable & Pit

- SURVEY NOTES**
- Survey as shown on these plans was provided by M.H. Lodeyk Consulting Surveyor (Drg No. 24-094-A (Rev A), dated 15/10/24).
 - Survey vertical datum origin derived from PSM 181244 (RL 343.426m). (Refer M.H. Lodeyk Consulting Surveyor for location and further details).
 - The Contractor is to satisfy himself as to the accuracy and currency of the survey, based on site conditions at the time of construction, and notify the Superintendent if works have been undertaken since the survey pick-up over the subject site, or if major discrepancies exist between the current site conditions and the original survey.
 - The Contractor is to confirm details and locations of existing survey marks and stations on site with the Site Surveyor.
 - Electronic design surface data can be provided to the Contractor on request. It is the Contractor's responsibility to satisfy themselves of the accuracy of the data provided, and to notify the Superintendent if discrepancies exist between the electronic data provided and the 'For Construction' plans.

SURVEY CONTROL TABLE				
STN	DESCRIPTION	EASTING	NORTHING	RL
PSM181244	PERMANENT SURVEY MARK	2945.640	8333.655	343.426
STN1	BOLT IN CONC	2955.741	8299.144	343.941
STN2	BOLT IN CONC	3000.888	8225.642	345.128

- EXISTING SERVICES NOTES**
- Prior to commencing construction, the Contractor shall locate all underground services. All underground services shall be sufficiently identified through pot-holing.
 - The Contractor is to liaise with the asset owners (NBN, Telstra, Ergon and Local Authority) to determine the protection & possible relocation requirements for all underground services in the vicinity of the works.

POSITIONS OF EXISTING SERVICES SHOWN ARE PROVIDED FOR GUIDANCE ONLY AND LOCATIONS AND/OR DEPTHS MAY BE INCORRECT. ALSO ADDITIONAL EXISTING SERVICES MAY BE PRESENT ON SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE POSITION OF ALL EXISTING SERVICES ON SITE.



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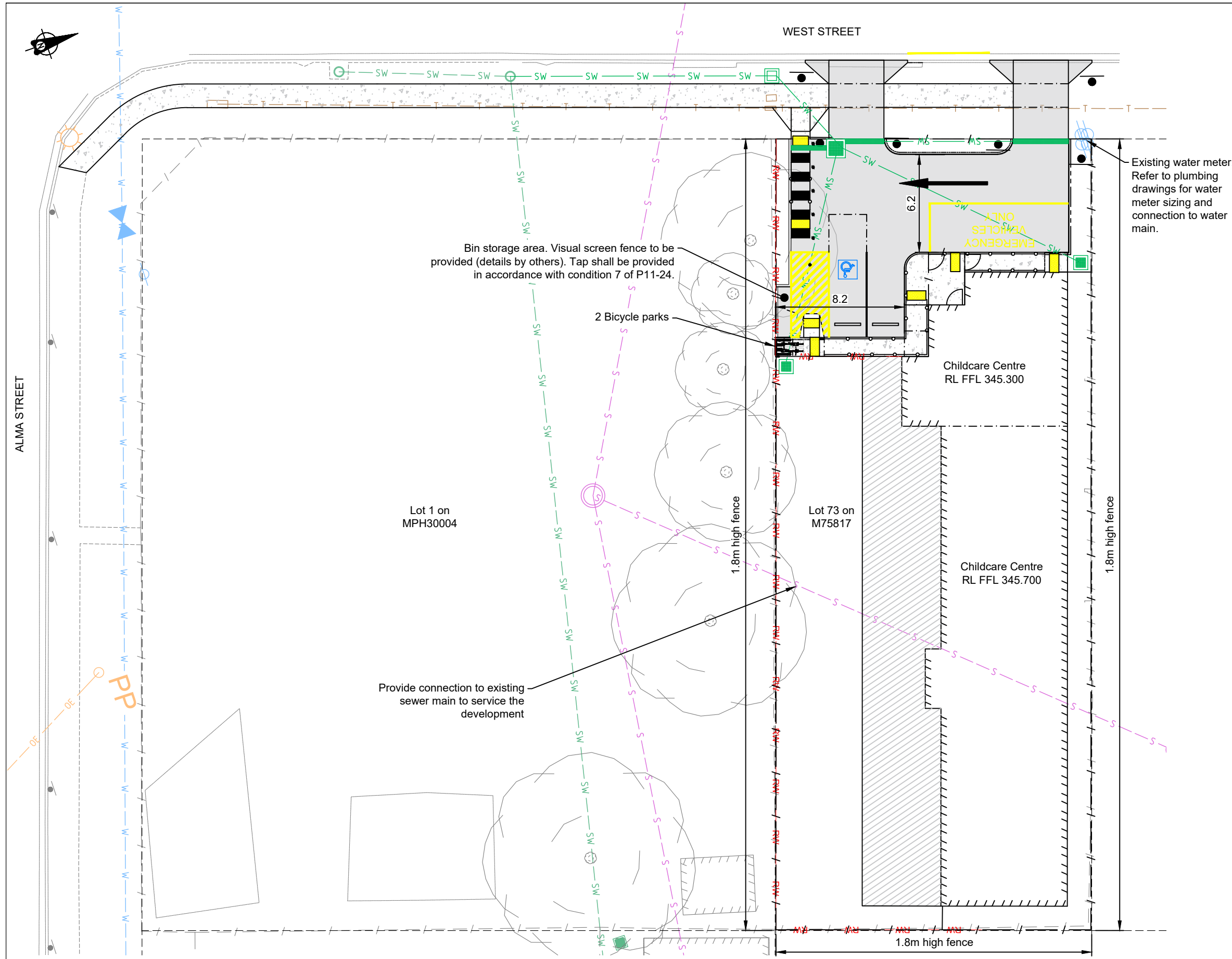
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E-Mail: mail@paragonce.com
Web Site: www.paragonce.com
ABN No: 40 109 991 988

Client: MOUNT ISA DAY NURSERY AND KINDERGARTEN

Project: CHILDCARE CENTRE AT 104 WEST STREET, MENZIES

Detail: EXISTING SITE FEATURES

Designed:	R.HUSKING	Scale(s):	1:500 (A3)
Reviewed:	B.PURNELL	Datum:	AHD
Approved:	B.PURNELL RPEQ 19819	PCE Job No.:	3155-01
Drawing No.:	3155-01-002	Rev. No.:	A

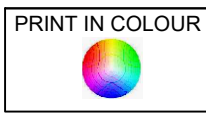


LEGEND	
	Existing Lot Boundary
	Existing Change of Grade
	Existing Barrier Kerb & Channel
	Existing Building Edge
	Existing Concrete Edge
	Existing Fence
	Existing Signs
	Existing Trees
	Existing Overhead Electrical Line
	Existing Street Lighting
	Existing Power Poles
	Existing Gravity Sewer & Manhole
	Existing Stormwater Pipe & Manhole
	Existing Stormwater Pits
	Existing Potable Water Line
	Existing Potable Water Gate Valve
	Existing Potable Water Meter
	Existing Telecommunication Cable & Pit
	Proposed Retaining Wall
	Proposed Handrail
	Proposed Barrier Kerb & Channel
	Proposed Concrete Edge
	Proposed Building
	Proposed Fence
	Proposed Signs
	Proposed Stormwater Pipe & Manhole
	Proposed Stormwater Pits
	Proposed Concrete Pavement
	Proposed Concrete Area

GENERAL NOTES

1. All works that are included on these engineering plans are to be carried out in accordance with the project Technical Specification, and to the satisfaction of the Project Superintendent.
2. No work associated with these drawings is to commence on site until approval is provided from the Local Authority, and the Contractor receives written approval from the Superintendent. A pre-start meeting must be held prior to commencement of works.
3. It is the responsibility of the Contractor to contact the services authorities (including but not limited to Ergon Energy, Telstra, NBN and the Local Authority) and locate existing underground services prior to any excavation works commencing on site.
4. Any damage caused to existing infrastructure as a result of construction works is to be repaired immediately.
5. A solid 1.8m high fence shall be provided for the full length of the northern, eastern and southern property boundaries.

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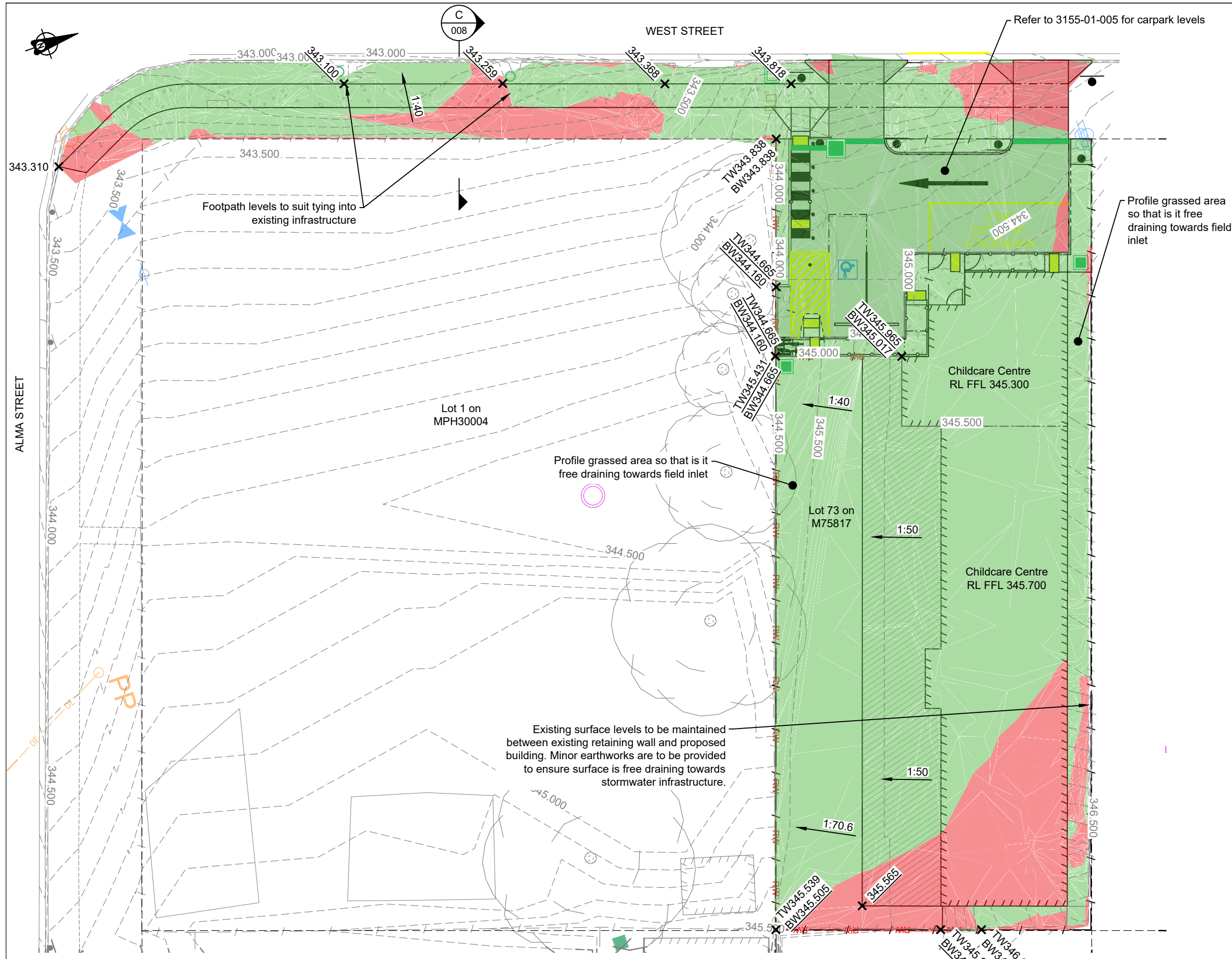
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ABN No: 40 109 991 988

Client: MOUNT ISA DAY NURSERY AND KINDERGARTEN

Project: CHILDCARE CENTRE AT 104 WEST STREET, MENZIES

Detail: GENERAL LAYOUT

Designed:	R.HUSKING	Scale(s):	1:250 (A3)
Reviewed:	B.PURNELL	Datum:	AHD
Approved:	B.PURNELL RPEQ 19819	PCE Job No.:	3155-01
Drawing No.:	3155-01-003	Rev. No.:	A



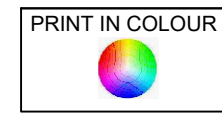
LEGEND

- Existing Lot Boundary
- - - Existing Change of Grade
- ==== Existing Barrier Kerb & Channel
- //// Existing Building Edge
- - - Existing Concrete Edge
- / - Existing Fence
- Existing Signs
- ⊙ Existing Trees
- OE — Existing Overhead Electrical Line
- ⊙ Existing Street Lighting
- ⊙ PP Existing Power Poles
- ⊙ Existing Gravity Sewer Manhole
- ⊙ Existing Stormwater Manhole
- ⊙ Existing Stormwater Pits
- ⊙ Existing Potable Water Gate Valve
- ⊙ Existing Potable Water Meter
- ⊙ Existing Telecommunication Pit
- RW — Proposed Retaining Wall
- Proposed Handrail
- ==== Proposed Barrier Kerb & Channel
- ==== Proposed Concrete Edge
- //// Proposed Building
- / - Proposed Fence
- Proposed Signs
- ⊙ Proposed Stormwater Manhole
- ⊙ Proposed Stormwater Pits
- ✕ 5.00 Existing Surface Level
- ✕ 5.00 Proposed Surface Level
- ✕ TW5.00 Top of Retaining Wall Level
- ✕ BW5.00 Bottom of Retaining Wall Level
- █ Proposed Earthworks Cut*
- █ Proposed Earthworks Fill*

* Cut and Fill hatches are based on the levels difference between the original surface and the top of the finished surface.

- EARTHWORKS NOTES**
1. Design levels shown are to top of finished surface level.
 2. Areas to be disturbed are to be stripped of topsoil to a depth of 100mm (or as directed by the Superintendent). Topsoil is to be stockpiled on site and re-spread after earthworks are completed.
 3. Earthworks compaction and testing to be in accordance with the requirements as detailed in the Technical Specification.
 4. All earthworks shall be carried out under Level 2 as specified in AS3798 "Guidelines on earthworks for commercial and residential developments".

POSITIONS OF EXISTING SERVICES SHOWN ARE PROVIDED FOR GUIDANCE ONLY AND LOCATIONS AND/OR DEPTHS MAY BE INCORRECT. ALSO ADDITIONAL EXISTING SERVICES MAY BE PRESENT ON SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE POSITION OF ALL EXISTING SERVICES ON SITE.



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ABN No: 40 109 991 988

Client: MOUNT ISA DAY NURSERY AND KINDERGARTEN

Project: CHILDCARE CENTRE AT 104 WEST STREET, MENZIES

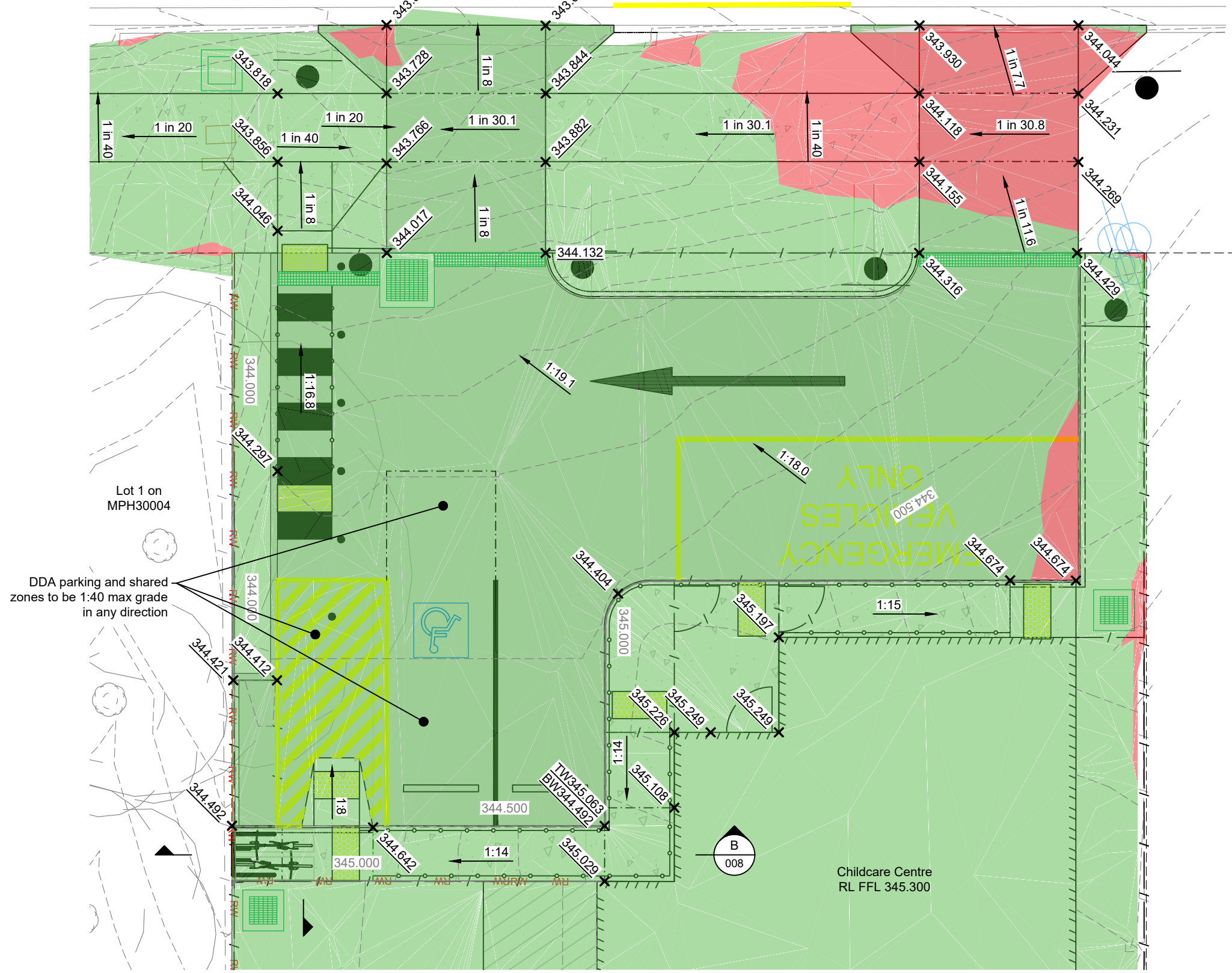
Detail: EARTHWORKS

Designed:	R.HUSKING	Scale(s):	1:250 (A3)
Reviewed:	B.PURNELL	Datum:	AHD
Approved:	B.PURNELL RPEQ 19819	PCE Job No.:	3155-01
Drawing No.:	3155-01-004	Rev. No.:	A



A
008

WEST STREET



LEGEND

	Existing Lot Boundary
	Existing Change of Grade
	Existing Barrier Kerb & Channel
	Existing Building Edge
	Existing Concrete Edge
	Existing Fence
	Existing Signs
	Existing Trees
	Existing Overhead Electrical Line
	Existing Street Lighting
	Existing Power Poles
	Existing Gravity Sewer Manhole
	Existing Stormwater Manhole
	Existing Stormwater Pits
	Existing Potable Water Gate Valve
	Existing Potable Water Meter
	Existing Telecommunication Pit
	Proposed Retaining Wall
	Proposed Handrail
	Proposed Barrier Kerb & Channel
	Proposed Concrete Edge
	Proposed Building
	Proposed Fence
	Proposed Signs
	Proposed Stormwater Manhole
	Proposed Stormwater Pits
	Existing Surface Level
	Proposed Surface Level
	Top of Retaining Wall Level
	Bottom of Retaining Wall Level
	Proposed Earthworks Cut*
	Proposed Earthworks Fill*

DDA parking and shared zones to be 1:40 max grade in any direction

Lot 1 on MPH30004

EMERGENCY VEHICLES ONLY

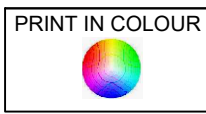
Childcare Centre
RL FFL 345.300

* Cut and Fill hatches are based on the levels difference between the original surface and the top of the finished surface.

EARTHWORKS NOTES

1. Design levels shown are to top of finished surface level.
2. Areas to be disturbed are to be stripped of topsoil to a depth of 100mm (or as directed by the Superintendent). Topsoil is to be stockpiled on site and re-spread after earthworks are completed.
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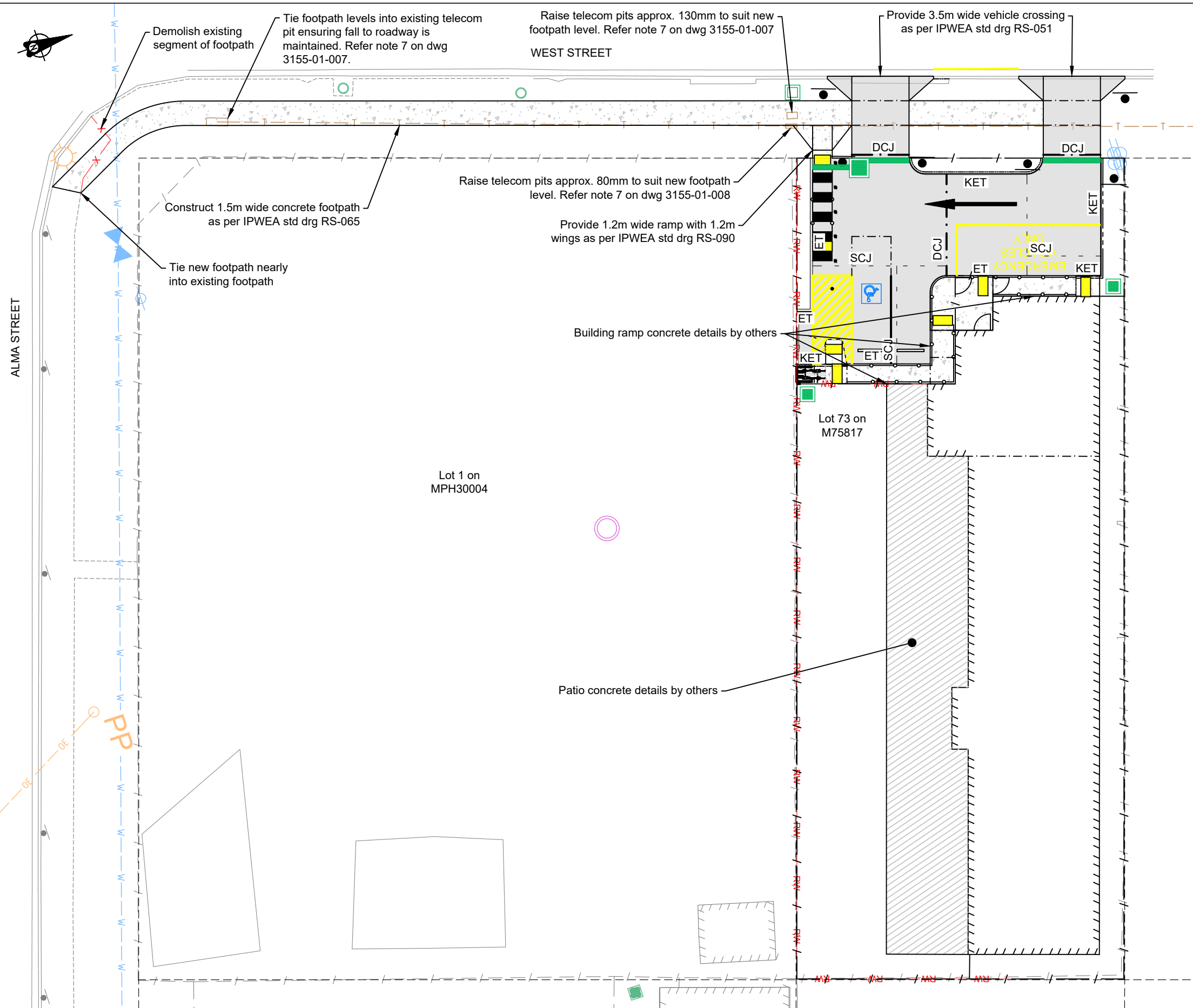
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ABN No: 40 109 991 988

Client: MOUNT ISA DAY NURSERY AND KINDERGARTEN

Project: CHILDCARE CENTRE AT 104 WEST STREET, MENZIES

Detail: CARPARK LEVELS

Designed:	R.HUSKING	Scale(s):	1:100 (A3)
Reviewed:	B.PURNELL	Datum:	AHD
Approved:	B.PURNELL RPEQ 19819	PCE Job No.:	3155-01
Drawing No.:	3155-01-005	Rev. No.:	A

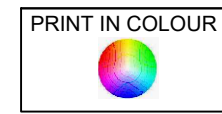


LEGEND	
	Existing Lot Boundary
	Existing Change of Grade
	Existing Barrier Kerb & Channel
	Existing Building Edge
	Existing Concrete Edge
	Existing Fence
	Existing Signs
	Existing Trees
	Existing Overhead Electrical Line
	Existing Street Lighting
	Existing Power Poles
	Existing Gravity Sewer & Manhole
	Existing Stormwater Pipe & Manhole
	Existing Stormwater Pits
	Existing Potable Water Line & Fire Hydrant
	Existing Potable Water Gate Valve
	Existing Potable Water Meter
	Existing Telecommunication Cable & Pit
	Proposed Retaining Wall
	Proposed Handrail
	Proposed Barrier Kerb & Channel
	Proposed Concrete Edge
	Proposed Building
	Proposed Fence
	Proposed Signs
	Proposed Stormwater Manhole
	Proposed Stormwater Pits
	Proposed Concrete Pavement
	Proposed Concrete Area
	Proposed Dowel Construction Joint
	Proposed Saw Cut Joint
	Proposed Kerb Edge Thickening
	Proposed Edge Restraint

PAVEMENT DETAILS

- Concrete pavement to be 150mm thick reinforced 32MPa concrete with SL82 mesh placed at 1/3rd depth.
- Concrete footpath to be 100mm thick reinforced as per IPWEA std drg RS-065.

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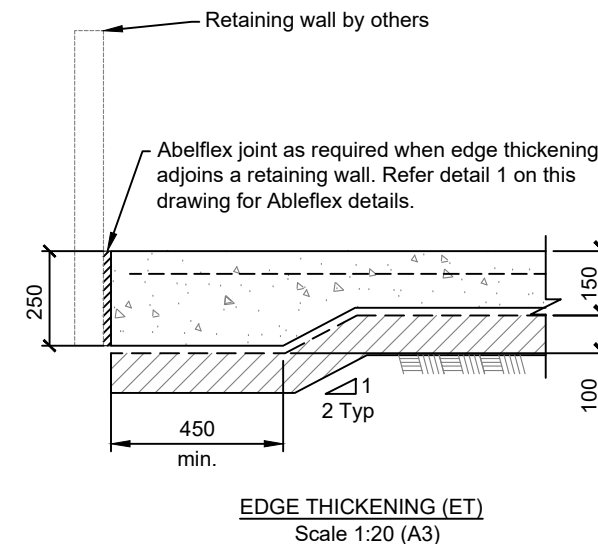
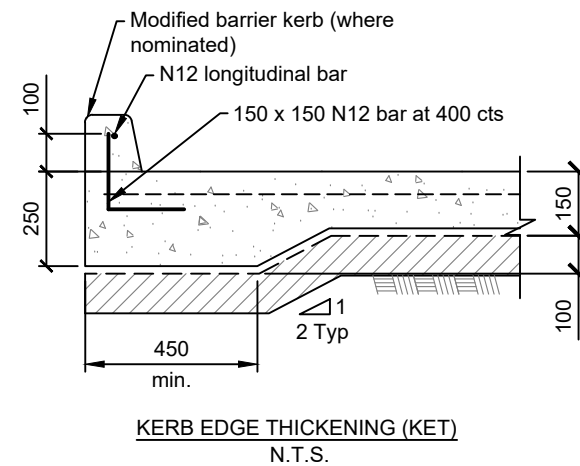
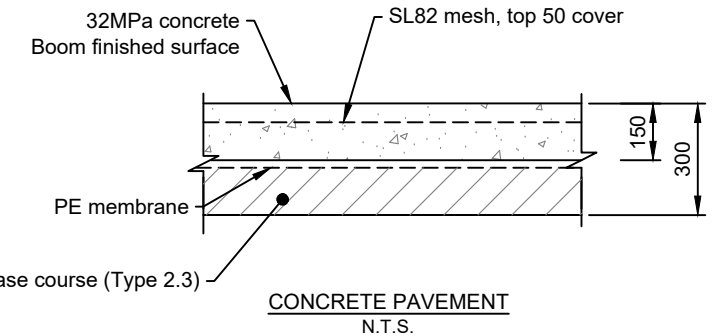
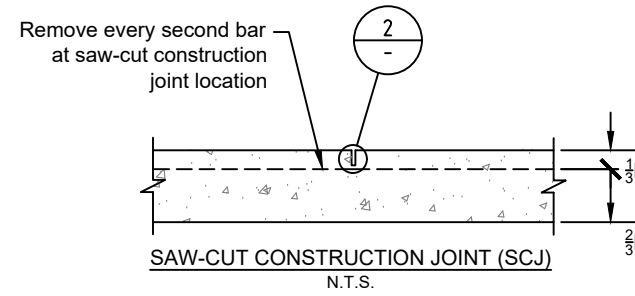
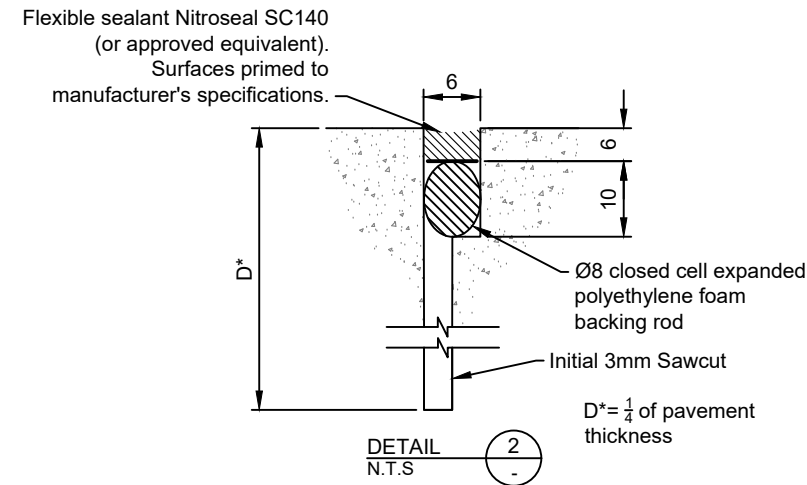
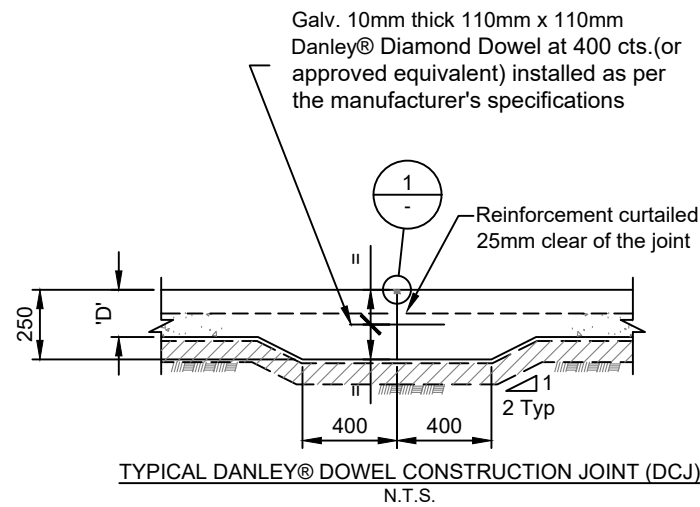
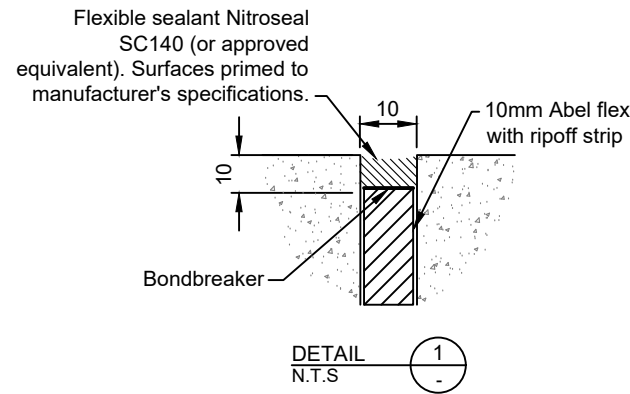
Project: CHILDCARE CENTRE AT 104 WEST STREET, MENZIES

Detail: PAVEMENT

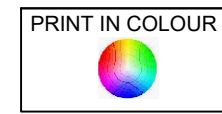
Designed:	R.HUSKING	Scale(s):	1:250 (A3)
Reviewed:	B.PURNELL	Datum:	AHD
Approved:	B.PURNELL RPEQ 19819	PCE Job No.:	3155-01
Drawing No.:	3155-01-006	Rev. No.:	A

CONCRETE NOTES

1. Concrete pavement design based on an assumed CBR of 3%
2. The mesh cover requirements are as follows:
 - 2.1. 50mm cover depth from the top of the slab.
 - 2.2. End cover to be 50mm.
3. 28 day concrete strength is to be 32MPa.
4. The concrete surface shall be broom finished (to ensure adequate vehicle traction and pedestrian slip resistance).
5. The Type 2.3 subbase pavement layer shall be compacted to min 98% MDD. Subbase layer shall extend to the back of kerb.
6. The concrete slab is to be placed on a PE membrane (min. 200 microns thick).
7. 2 x N12 trimmer bars are to be installed on the underside of the mesh at all external corners of all pits and other structures. N12 bars to be located 50mm back from the subject corner.
8. All underground infrastructure (i.e. power, comms, water, sewer etc) are to be installed prior to placement of concrete kerbs and slabs.
9. All workmanship and materials shall be in accordance with AS3600.
10. All formwork shall be designed and constructed in accordance with AS3600.
11. Construction joints shall be properly formed and used only where shown or specified by the engineer.
12. Splices in reinforcement shall be made in the position shown or otherwise approved by the engineer. Fabric is to be lapped by a minimum of 2 cross wires + 25mm and sheets staggered to avoid excessive thickness at laps.
13. Reinforcement bar chairs (plastic accepted) are to be used to accurately locate mesh. Place chairs at 500mm maximum centres in a triangular pattern. Bar chair dimensions are to be selected to centralise reinforcing mesh in the slab.
14. Reinforcement shall comply with AS4671
15. If concrete is placed in hot and/or windy weather (>28°C), an aliphatic fog spray is recommended to reduce evaporation.
16. All concrete shall be properly compacted in place, then exposed surfaces continuously cured for minimum of 7 days by an approved method of curing.
17. Welding or site bending of reinforcement is not permitted without approval from the engineer.



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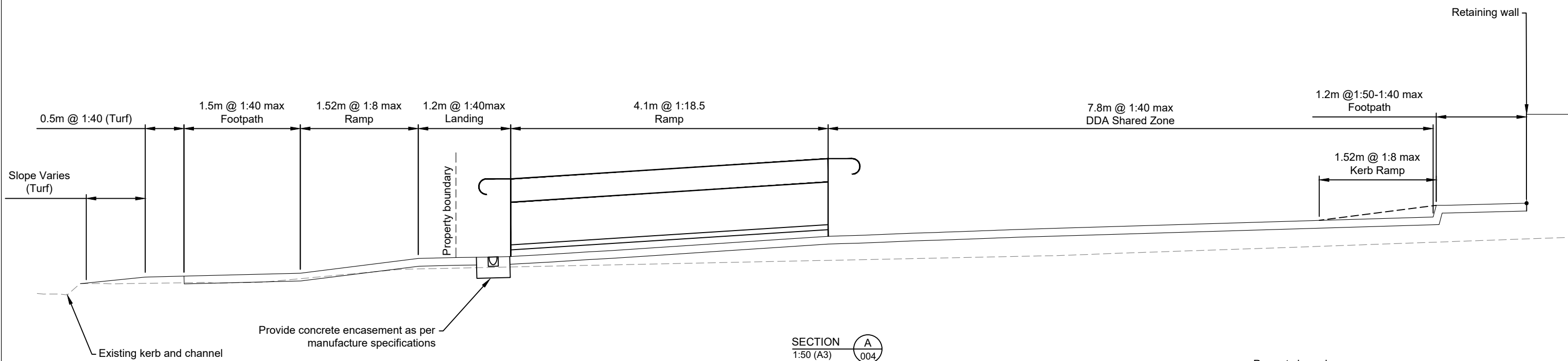
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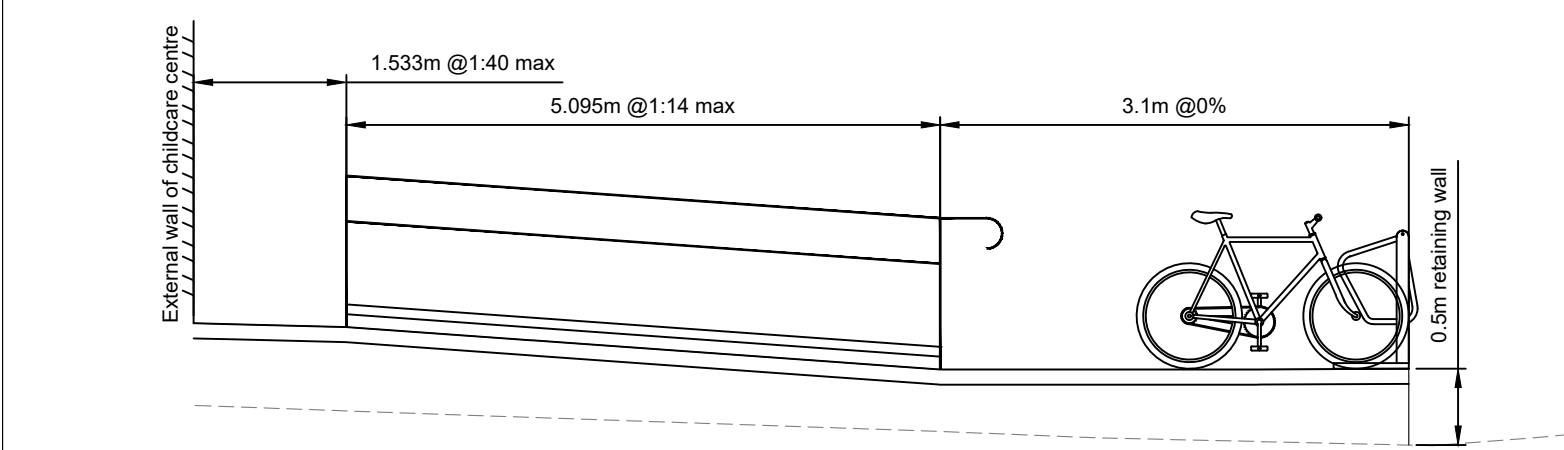
Project: CHILDCARE CENTRE AT 104 WEST STREET, MENZIES

Detail: CONCRETE DETAILS

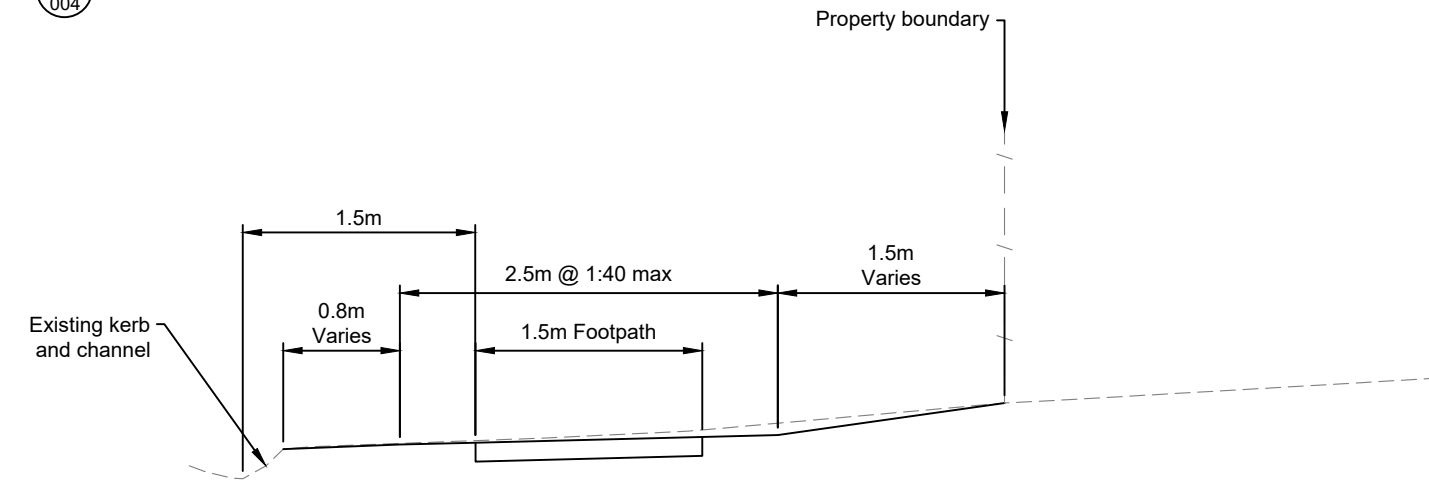
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SECTION A
1:50 (A3) 004

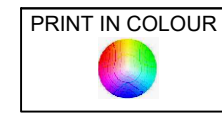


SECTION B
1:50 (A3) 004



SECTION C
1:50 (A3) 004

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No.	Date	Revisions	Drafted	Designed	Approved	RPEQ No.
A	17/02/2026	FOR APPROVAL				19819

PARAGON Consulting Engineers Pty Ltd

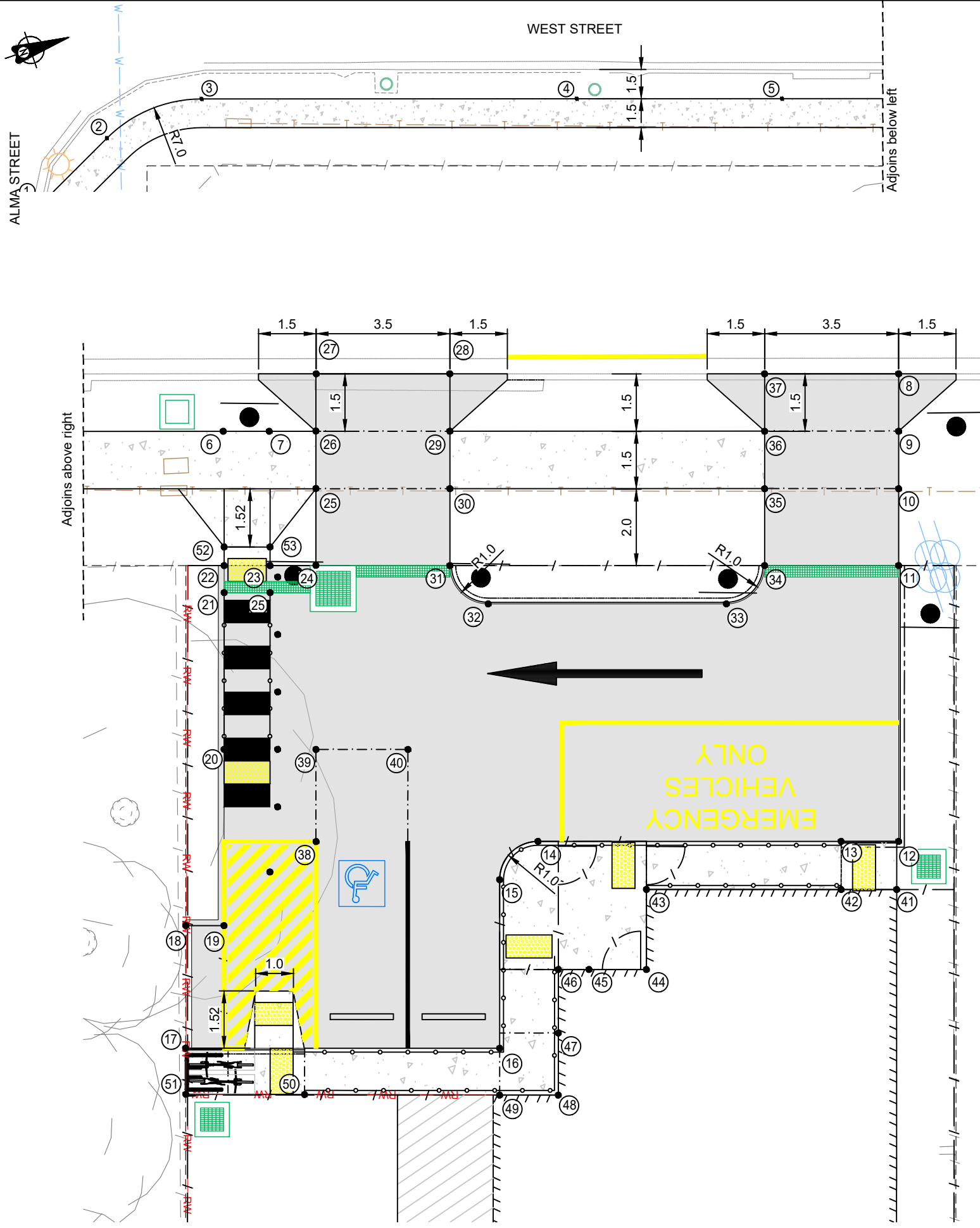
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Telephone: (07) 4957 7330
Facsimile: (07) 4957 7334
E-Mail: mail@paragonce.com
Web Site: www.paragonce.com
ABN No: 40 109 991 988

Client: MOUNT ISA DAY NURSERY AND KINDERGARTEN

Project: CHILDCARE CENTRE AT 104 WEST STREET, MENZIES

Detail: FOOTPATH SECTIONS

Designed:	R.HUSKING	Scale(s):	1:50 (A3)
Reviewed:	B.PURNELL	Datum:	AHD
Approved:	B.PURNELL RPEQ 19819	PCE Job No.:	3155-01
Drawing No.:	3155-01-008	Rev. No.:	A

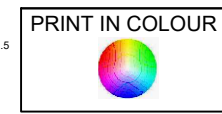
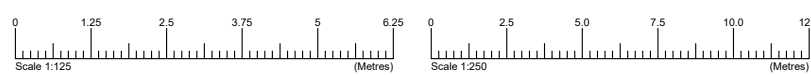


SETOUT CO-ORDINATES			
Point No.	Easting	Northing	Level
1	2944.628	8243.942	343.310
2	2942.585	8247.991	343.296
3	2942.183	8253.329	343.280
4	2948.414	8272.304	343.220
5	2951.349	8281.243	343.368
6	2954.156	8289.794	343.818
7	2954.531	8290.934	343.788
8	2958.232	8306.999	344.044
9	2959.657	8306.531	344.231
10	2961.082	8306.062	344.269
11	2962.988	8305.436	344.429
12	2969.827	8303.187	344.674
13	2969.359	8301.761	344.674
14	2966.886	8294.239	344.412
15	2967.524	8292.977	344.402
16	2971.703	8291.601	344.492
17	2969.144	8283.819	344.492
18	2966.101	8284.813	344.421
19	2966.414	8285.763	344.412
20	2962.052	8287.198	344.297
21	2958.165	8288.477	344.076
22	2957.487	8288.701	344.058
23	2957.862	8289.841	344.028
24	2958.236	8290.978	344.017
25	2956.330	8291.604	343.766
26	2954.905	8292.073	343.728
27	2953.480	8292.541	343.541
28	2954.572	8295.866	343.657
29	2955.997	8295.398	343.845
30	2957.422	8294.930	343.882
31	2959.328	8294.303	344.133
32	2960.590	8294.941	344.164
33	2962.533	8300.850	344.285
34	2961.895	8302.112	344.316
35	2959.990	8302.738	344.155
36	2958.565	8303.206	344.118
37	2957.140	8303.674	343.930
38	2965.080	8288.732	344.357
39	2962.796	8289.483	344.297
40	2963.543	8291.754	344.297
41	2971.005	8302.746	344.849
42	2970.552	8301.369	344.849
43	2968.962	8296.539	345.197
44	2970.947	8295.885	345.249
45	2970.478	8294.461	345.249
46	2970.228	8293.701	345.226
47	2971.805	8293.182	345.108
48	2973.344	8292.675	345.068
49	2972.865	8291.219	345.029
50	2971.259	8286.384	344.665
51	2970.284	8283.441	344.665
52	2957.026	8288.852	344.046
53	2957.400	8289.992	344.016

LEGEND

- Existing Lot Boundary
- - - Existing Change of Grade
- ==== Existing Barrier Kerb & Channel
- //// Existing Building Edge
- Existing Concrete Edge
- / - Existing Fence
- Existing Signs
- ⊙ Existing Trees
- ⊙ Existing Street Lighting
- ⊙ Existing Power Poles
- ⊙ Existing Gravity Sewer & Manhole
- ⊙ Existing Stormwater Pipe & Manhole
- ⊙ Existing Stormwater Pits
- ⊙ Existing Potable Water Line & Fire Hydrant
- ⊙ Existing Potable Water Gate Valve
- ⊙ Existing Potable Water Meter
- ⊙ Existing Telecommunication Cable & Pit
- RW — Proposed Retaining Wall
- Proposed Handrail
- ==== Proposed Barrier Kerb & Channel
- Proposed Concrete Edge
- //// Proposed Building
- / - Proposed Fence
- Proposed Signs
- ⊙ SW Proposed Stormwater Pipe & Manhole
- ⊙ Proposed Stormwater Pits
- Proposed Concrete Paving
- Proposed Concrete Area
- ⊙ Proposed Setout

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PARAGON Consulting Engineers Pty Ltd

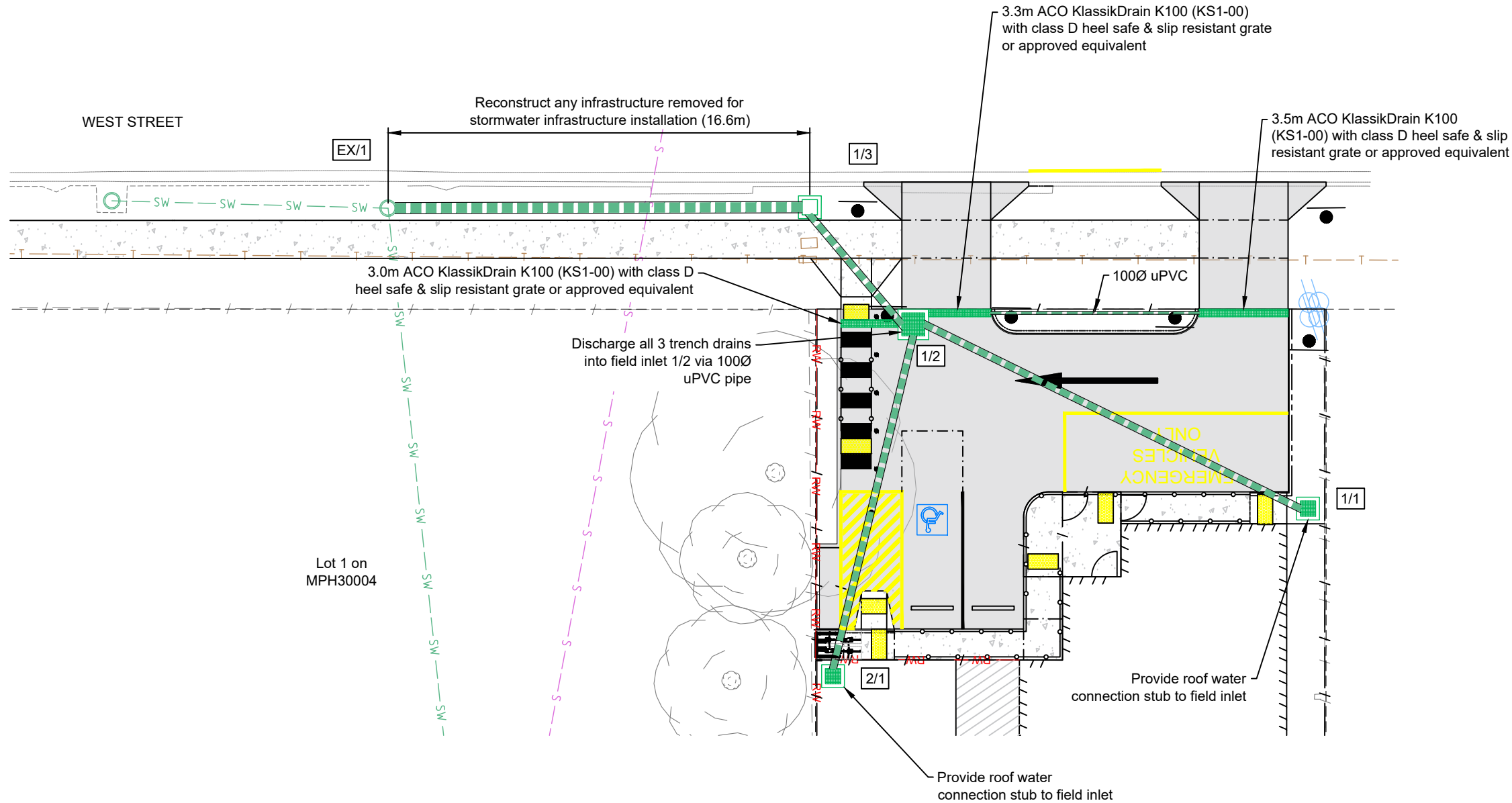
Address: 95 Sydney Street
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Telephone: (07) 4957 7330
Facsimile: (07) 4957 7334
E-Mail: mail@paragonce.com
Web Site: www.paragonce.com
ABN No: 40 109 991 988

Client: MOUNT ISA DAY NURSERY AND KINDERGARTEN

Project: CHILDCARE CENTRE AT 104 WEST STREET, MENZIES

Detail: SETOUT

Designed:	R.HUSKING	Scale(s):	As Shown
Reviewed:	B.PURNELL	Datum:	AHD
Approved:	B.PURNELL RPEQ 19819	PCE Job No.:	3155-01
Drawing No.:	3155-01-009	Rev. No.:	A



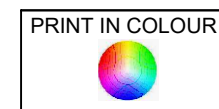
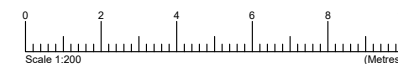
LEGEND

	Existing Lot Boundary
	Existing Change of Grade
	Existing Barrier Kerb & Channel
	Existing Building Edge
	Existing Concrete Edge
	Existing Fence
	Existing Signs
	Existing Trees
	Existing Street Lighting
	Existing Power Poles
	Existing Gravity Sewer & Manhole
	Existing Stormwater Pipe & Manhole
	Existing Stormwater Pits
	Existing Potable Water Line & Fire Hydrant
	Existing Potable Water Gate Valve
	Existing Potable Water Meter
	Existing Telecommunication Cable & Pit
	Proposed Retaining Wall
	Proposed Handrail
	Proposed Barrier Kerb & Channel
	Proposed Concrete Edge
	Proposed Building
	Proposed Fence
	Proposed Signs
	Proposed Concrete Pavement
	Proposed Concrete Area
	Proposed Stormwater Pipe
	Proposed Stormwater Pits
	Proposed Stormwater Manhole

STORMWATER NOTES

1. Setout coordinates for stormwater manhole and field inlet pit structures are for the centre of the pit chamber.
2. Pipe lengths are measured from centre of pit to centre of pit
3. For stormwater pipe bedding and backfill details refer to the Specification.
4. 28 day concrete strength is to be min 32MPa.
5. Pipe classes nominated are based on 'in service' pipe loads only and do not account for construction loads. Contractor to be aware of this and take adequate precautions during construction to ensure pipe integrity is retained after completion of the works.
6. All retaining wall subsoil drainage pipes are to be 100Ø PVC (non perforated).
7. Prior to commencing construction work, the contractor shall survey the proposed stormwater discharge (structure Ex/1) to confirm that the invert level is as per these drawings. The contractor shall contact Paragon Consulting Engineers if there are any discrepancies between the invert level shown on these drawings and the surveyed invert level.

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PARAGON Consulting Engineers Pty Ltd

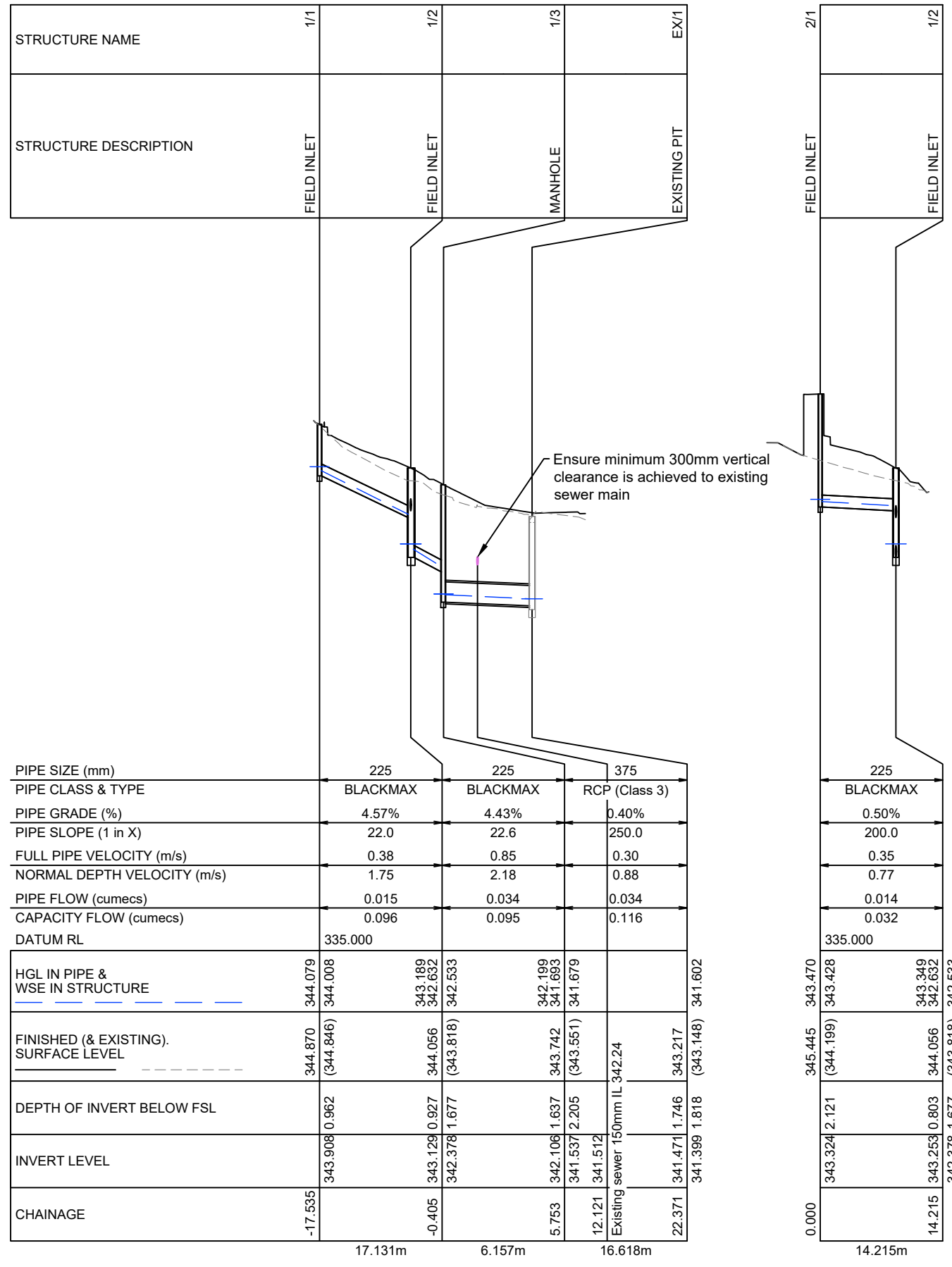
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Telephone: (07) 4957 7330
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Web Site: www.paragonce.com
ABN No: 40 109 991 988

Client: MOUNT ISA DAY NURSERY AND KINDERGARTEN

Project: CHILDCARE CENTRE AT 104 WEST STREET, MENZIES

Detail: STORMWATER

Designed:	R.HUSKING	Scale(s):	1:200 (A3)
Reviewed:	B.PURNELL	Datum:	AHD
Approved:	B.PURNELL RPEQ 19819	PCE Job No.:	3155-01
Drawing No.:	3155-01-010	Rev. No.:	A

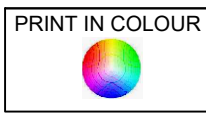
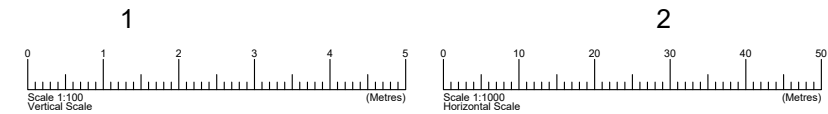


PIPE SIZE (mm)	225			375		
PIPE CLASS & TYPE	BLACKMAX			RCP (Class 3)		
PIPE GRADE (%)	4.57%			0.40%		
PIPE SLOPE (1 in X)	22.0			250.0		
FULL PIPE VELOCITY (m/s)	0.38			0.30		
NORMAL DEPTH VELOCITY (m/s)	1.75			0.88		
PIPE FLOW (cumecs)	0.015			0.034		
CAPACITY FLOW (cumecs)	0.096			0.116		
DATUM RL	335.000					
HGL IN PIPE & WSE IN STRUCTURE	344.079	344.008	343.189	342.632	342.533	342.199
FINISHED (& EXISTING) SURFACE LEVEL	344.870	344.846	344.056	343.818	343.742	343.551
DEPTH OF INVERT BELOW FSL	0.962	0.927	1.637	1.677	2.205	1.746
INVERT LEVEL	343.908	343.129	342.378	341.537	341.512	341.811
CHAINAGE	-17.535	-0.405	5.753	12.121	22.371	34.148
	17.131m		6.157m		16.618m	

PIPE SIZE (mm)	225	
PIPE CLASS & TYPE	BLACKMAX	
PIPE GRADE (%)	0.50%	
PIPE SLOPE (1 in X)	200.0	
FULL PIPE VELOCITY (m/s)	0.35	
NORMAL DEPTH VELOCITY (m/s)	0.77	
PIPE FLOW (cumecs)	0.014	
CAPACITY FLOW (cumecs)	0.032	
DATUM RL	335.000	
HGL IN PIPE & WSE IN STRUCTURE	345.445	343.428
FINISHED (& EXISTING) SURFACE LEVEL	345.445	344.199
DEPTH OF INVERT BELOW FSL	2.121	0.803
INVERT LEVEL	343.324	343.253
CHAINAGE	0.000	14.215
	14.215m	

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LINE



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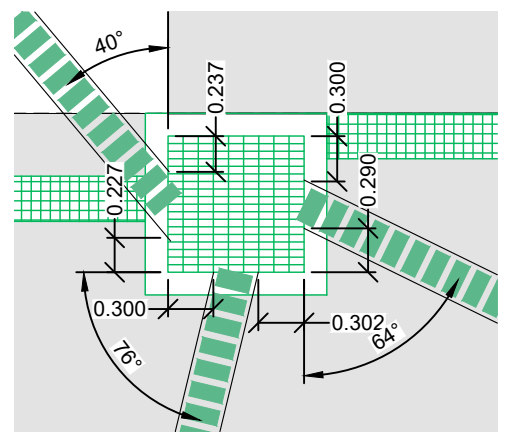
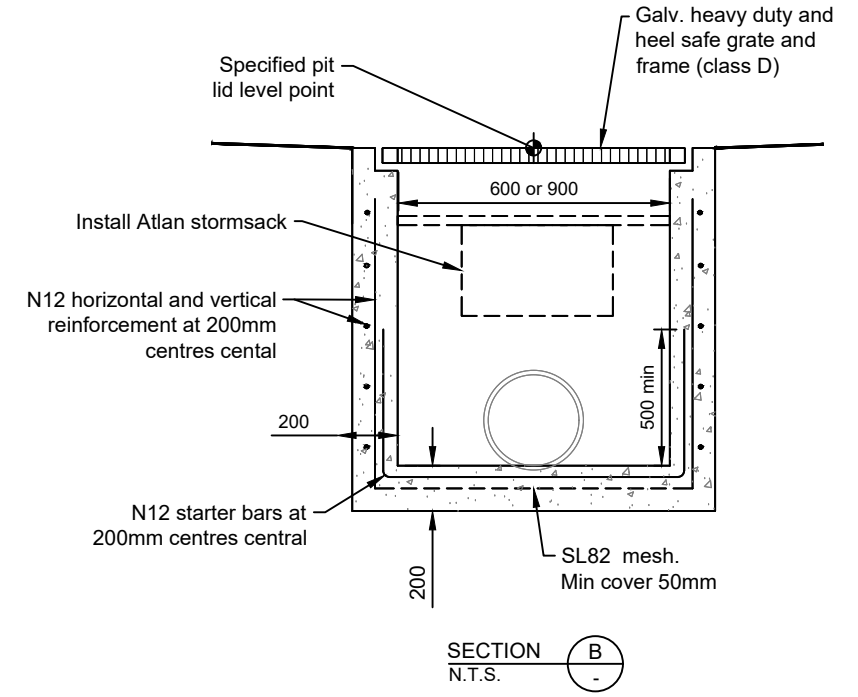
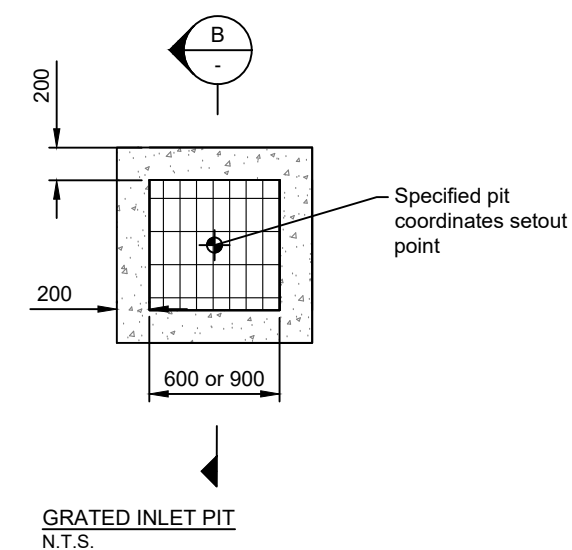
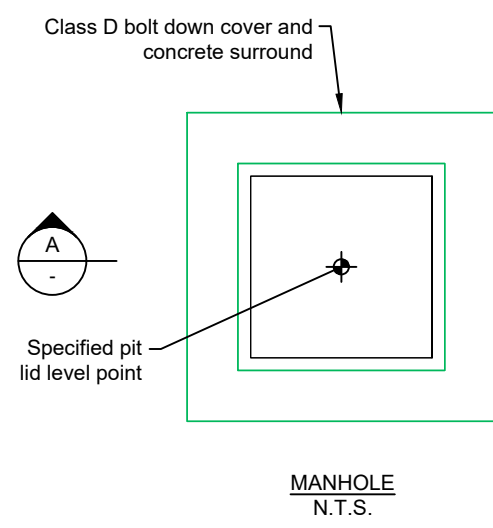
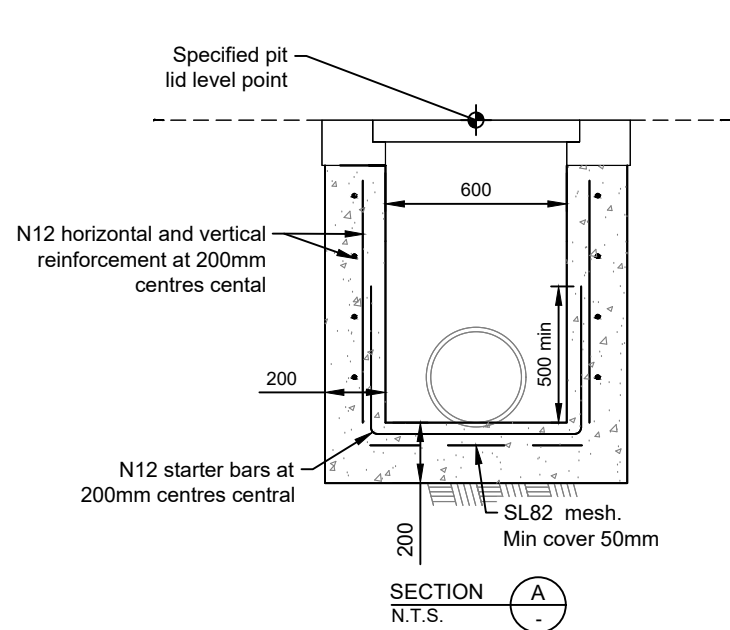
Client: MOUNT ISA DAY NURSERY AND KINDERGARTEN

Project: CHILDCARE CENTRE AT 104 WEST STREET, MENZIES

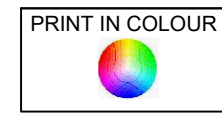
Detail: STORMWATER LONGITUDINAL SECTIONS

Designed:	R.HUSKING	Scale(s):	As Shown
Reviewed:	B.PURNELL	Datum:	AHD
Approved:	B.PURNELL RPEQ 19819	PCE Job No.:	3155-01
Drawing No.:	3155-01-011	Rev. No.:	A

STORMWATER STRUCTURE INFORMATION TABLE						
STRUCTURE	DESCRIPTION	LOCATION		PIT LID LEVEL	CHAMBER SIZE (INTERNAL)	DETAILS
		EASTING	NORTHING			
1/1	600 x 600 Grated Inlet	2970.685	8303.694	344.870	600 (L) x 600 (W)	Refer to manhole details on this drawing.
1/2	900 x 900 Grated Inlet	2958.946	8291.218	344.056	900 (L) x 900 (W)	Refer to grated inlet details on this drawing.
1/3	600 x 600 Manhole	2953.289	8288.787	343.742	600 (L) x 600 (W)	Refer to manhole details on this drawing.
DM06.PIT.110	Existing roadway gully (Ex/1)	-	-	-	1200 (L) x 1300 (W)	-
2/1	600 x 600 Grated Inlet	2971.124	8283.886	345.445	600 (L) x 600 (W)	Refer to manhole details on this drawing.



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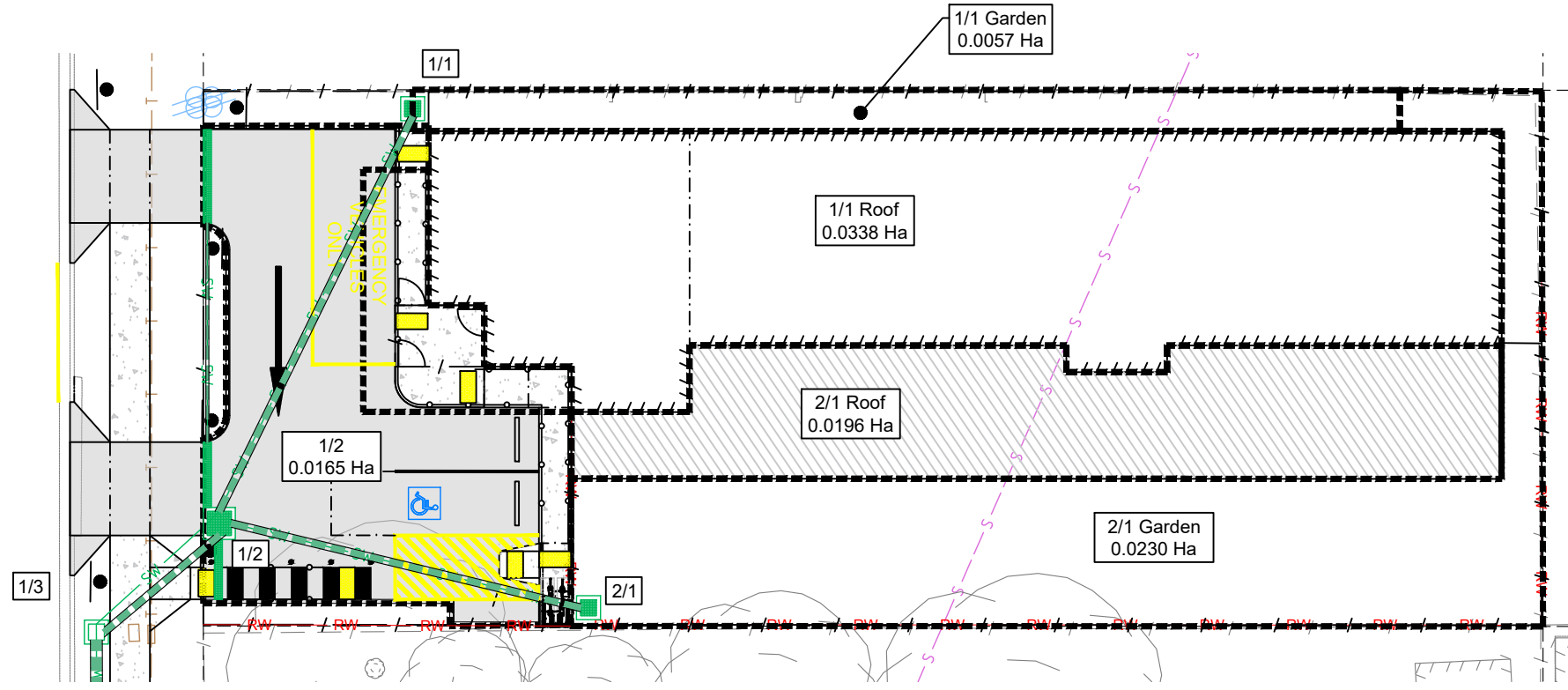
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ABN No: 40 109 991 988

Client: MOUNT ISA DAY NURSERY AND KINDERGARTEN

Project: CHILDCARE CENTRE AT 104 WEST STREET, MENZIES

Detail: STORMWATER SETOUT AND DETAILS

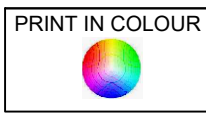
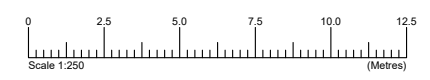
Designed:	R.HUSKING	Scale(s):	N.T.S.
Reviewed:	B.PURNELL	Datum:	AHD
Approved:	B.PURNELL RPEQ 19819	PCE Job No.:	3155-01
Drawing No.:	3155-01-012	Rev. No.:	A



Name	Type	Easting	Northing	Node RL	Catch	Time	Intensity	Runoff	Area	Full			Partial			Approach Flow
										CA	Sum CA	Qc=CA	CA	Sum CA	Qc=CA	
(-)	(-)	(m)	(m)	(m)	ID	Tc	I	C	A	CA	Sum CA	Qc=CA	CA	Sum CA	Qc=CA	(L/s)
1/1	Field Inlet	2970.69	8303.69	344.87	1I	5	173	0.86	0.0338	0.0291	0.0333	13.4	0.0291	0.0312	15	15
					2P	10	145	0.75	0.0057	0.0043			0.0021			
1/2	Field Inlet	2958.95	8291.22	344.06	1I	5	173	0.86	0.0165	0.0142	0.0142	6.8	0.0142	0.0142	6.8	6.8
1/3	Manhole	2953.29	8288.79	343.74												
DM06.PIT.110	Existing Inlet	2948.14	8272.99	343.15												
2/1	Field Inlet	2971.12	8283.89	345.44	1I	5	173	0.86	0.0196	0.0169	0.0341	13.7	0.0169	0.0255	12.2	13.7
					2P	10	145	0.75	0.023	0.0173			0.0086			

PIPE DESIGN							CATCHMENT							DRAIN DESIGN							PIPE DESIGN LEVELS							HEAD LOSSES											
ID	Class	Length	Size	Area	Grade	Grade	Full-area				Part-area			Pipe Flow	Capacity Flow	Q/Qcap	Full Pipe Velocity	Norm Depth Velocity	Crit Depth Velocity	Capacity Velocity	US Node Grate RL	Pipe US IL	Pipe DS IL	DS Node Grate RL	Cover Min	Pipe DS Bend	Pipe DS Drop	US Node	US Node	Pipe V'head	P'head Loss V'head	WSE Loss T'head	Pipe Loss	Node U/S H.G.L	Pipe U/S H.G.L	Pipe D/S H.G.L	Node D/S H.G.L	Free Board U/S	
(-)	(-)	(m)	(mm)	(sq.m)	(%)	(1 in)	Tct	I	Sum CA	Qc=CA	Tct	I	Sum CA	Qc=CA	Q	Qcap	Ratio	Vf=Q/A	Vn=Q/An	Vc=Q/Ac	Vcap=Qcap/Af	(m)	(m)	(m)	(m)	(m)	(deg)	(m)	(-)	(-)	(m)	Ku V'head	Kw V'head	(m)	(m)	(m)	(m)	(m)	(m)
1/1 to 1/2	PVC	17.13	225	0.04	4.54	22	10	145	0.0333	13.4	5	173	0.0312	15	15	95.8	0.16	0.38	1.75	0.87	2.41	344.87	343.91	343.13	344.06	0.6	23.5	0.751	9.7		0.01	0.07		0.7	344.08	344.01	343.19	342.63	0.79
1/2 to 1/3	PVC	6.16	225	0.04	4.43	22.6	10.14	144.4	0.0816	32.7	5.14	172.2	0.0709	33.9	33.9	94.6	0.36	0.85	2.18	1.17	2.38	344.06	342.38	342.11	343.74	1.2	-48.7	0.568	2.18	2.66	0.04	0.08	0.1	0.16	342.63	342.53	342.2	341.69	1.42
1/3 to Ex/1	RCP	16.62	375	0.114	0.4	250	10.19	144.18	0.0816	32.7	5.19	171.91	0.0709	33.9	33.9	115.7	0.29	0.3	0.88	0.97	1.02	343.74	341.54	341.47	343.03	1.34	0		2.09	3.24	0	0.01	0.01	0.07	341.69	341.68	341.6	341.6	2.05
2/1 to 1/3	PVC	14.21	225	0.04	0.5	200	10	145	0.0341	13.7	5	173	0.0255	12.2	13.7	31.8	0.43	0.35	0.77	0.85	0.8	345.44	343.32	343.25	344.06	0.6	-54.3	0.875	7		0.01	0.04		0.07	343.47	343.43	343.35	342.63	1.97

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ABN No: 40 109 991 988

Client: MOUNT ISA DAY NURSERY AND KINDERGARTEN

Project: CHILDCARE CENTRE AT 104 WEST STREET, MENZIES

Detail: STORMWATER CATCHMENTS AND CALCULATIONS

Designed:	R.HUSKING	Scale(s):	1:250 (A3)
Reviewed:	B.PURNELL	Datum:	AHD
Approved:	B.PURNELL RPEQ 19819	PCE Job No.:	3155-01
Drawing No.:	3155-01-013	Rev. No.:	A

General

- G1 These drawings shall be read in conjunction with all other drawings, specifications and other written instructions that may be issued during the course of the contract.
- G2 All dimensions relevant to setting out and off-site work shall be verified by the contractor before construction and fabrication is commenced. The engineers drawings shall not be scaled. All discrepancies shall be referred to the engineer for decision before proceeding with the work.
- G3 All dimensions are in millimetres u.n.o.
- G4 During construction the contractor shall be responsible for maintaining the structure in a stable condition and ensuring no part becomes overstressed under construction activities.
- G5 Workmanship and materials are to be in accordance with the relevant current S.A.A. codes including all amendments and statutory requirements, except where varied by the contract documents.
- G6 Design live loadings are in accordance with AS 1170.1-2002 as follows:

Area	Load
Ground Floor:	1.5 kPa
- G7 Design wind loadings are in accordance with AS 1170.2-2021 as follows:

Annual Return Period	500 years
Regional Wind Speed	36.9m/s
Climate Change Modifier	1.05
Terrain Category	2
Topographic Multiplier	Mt = 1.0
Shielding Multiplier	Ms = 1.0
AS 4055 Classification	N2
- G8 All items called up by a trade name may be substituted by an equivalent item with similar properties, subject to the engineer's written approval.
- G9 All cladding materials and elements shall be fixed in strict accordance with the manufacturer's specifications for the above loading conditions and the supporting structure shown on these drawings.
- G10 All glazing materials, fixing details and workmanship shall be in accordance with AS 1288 S.A.A. Glass Installation Code.

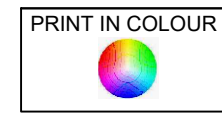
Foundations And Site Preparation

- F1 Strip top soil to the relative levels shown on the drawings. The exposed area shall then be proof rolled with a single axle truck with not less than 8 tonne axle load to ensure that no local soft spots exist.
- F2 Fill site to relative levels shown on the drawings. Imported fill shall be approved fill, nominal maximum size 75mm, minimum soaked CBR of 15%, placed in 150mm maximum layers and compacted to 95% relative dry density. U.n.o. the top 150mm of imported fill shall be compacted to at least 100% relative dry density (refer AS 1289). If any soft spots are revealed, they shall be made good with clean granular fill compacted to a density matching that of the surrounding soil.
- F3 Fine sand fill may be used under slabs compacted to a minimum density index of 70%.
- F4 Test certificates of actual densities shall be provided by the contractor.
- F5 The contractor shall check all footing excavations for organic material and rubbish. If any of this material is found, it shall be removed and the excavation backfilled with clean granular fill.
- F6 If disturbed, the bottom of the excavations shall be compacted to a relative dry density of 100% as determined according to AS 1289-E4.1 and E1.1.
- F7 The contractor is to ensure that the sides of the excavation are stable during all phases of construction.
- F8 Slabs have been designed to be founded on material with a minimum CBR of 10% or better. Should conditions other than those described above be encountered, then the matter shall be referred to the engineer for possible re-design.
- F9 The bases of footings shall be founded on material with a min. bearing capacity of 100 kPa.
- F10 The foundations are based on a site classification of 'S' to AS2870-2011. Geotechnical investigation performed by PGI North QLD, reference PGC1824151.
- F11 Drainage fill material shall comply with the Drawings, Building Regulations and relevant Standard (AS 2758.1). Unless stated otherwise, drainage fill material shall be GP (poorly graded gravel) single-sized gravel of nominal size 10mm to 20mm complying with the following specification.

Sieve (mm)	Percent Passing
26.5	100
19.0	70-100
13.2	0-100
9.52	0-0

Concrete Masonry

- M1 All workmanship and materials shall be in accordance with AS 3700-2018.
- M2 All concrete masonry blocks shall have a characteristic unconfined compressive strength of 15MPa.
- M3 Mortar for blockwork shall be of classification M3.
- M4 Minimum 28 day compressive strength of core filling grout shall be 20MPa and a slump of 200±30mm. Maximum aggregate size shall be 10mm. Grout shall have a cement content of not less than 300kg/m³. Fully bed face shells and end crosswebs of hollow units. Solid and cored units shall be laid on a full bed of mortar. No raking of joints is permitted.
 - Nominal joint thickness 10mm
 - Maximum joint tooling 3mm
- M5 Minimum grout cover to all reinforcement shall be 20mm.
- M6 All walls which are to be concrete filled shall have provision for clean-out at the base of every core to be filled. Droppings shall be removed and steel correctly positioned before core filling is commenced.
- M7 Unless a superior detail is shown on the drawings, all wall intersections shall be bonded construction or tied with N12 bars at 400 centers vertically.
- M8 Masonry blocks shall be constructed and grouted in lifts that allow full core-filling of the cores.
- M9 Shoring shall remain in place for a minimum of 7 days or until other support is provided.
- M10 All ties shall be stainless steel.
- M11 If not otherwise specified reinforce walls with N12 at 600 crs vertically and horizontally.
- M12 Unless noted otherwise, provide control joints at 12m centres and 6m from corners. All control joints shall be as detailed in the drawings.
- M13 If it is considered necessary to reduce the passage of moisture through the wall, for aesthetic or other reasons such as aggressive groundwater, the earth face of the wall should be treated with an appropriate sealer such as water-resistant render or water-resistant paint, or by tanking with bituminous materials.



FOR APPROVAL
(NOT FOR CONSTRUCTION)

A	17/02/2026	FOR APPROVAL	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	21753
No.	Date	Revisions	Drafted	Designed	Approved	RPEQ No.

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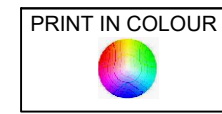
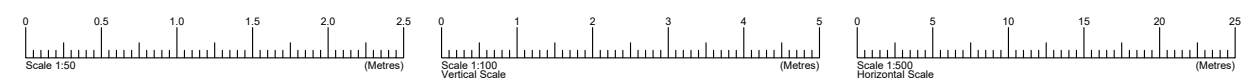
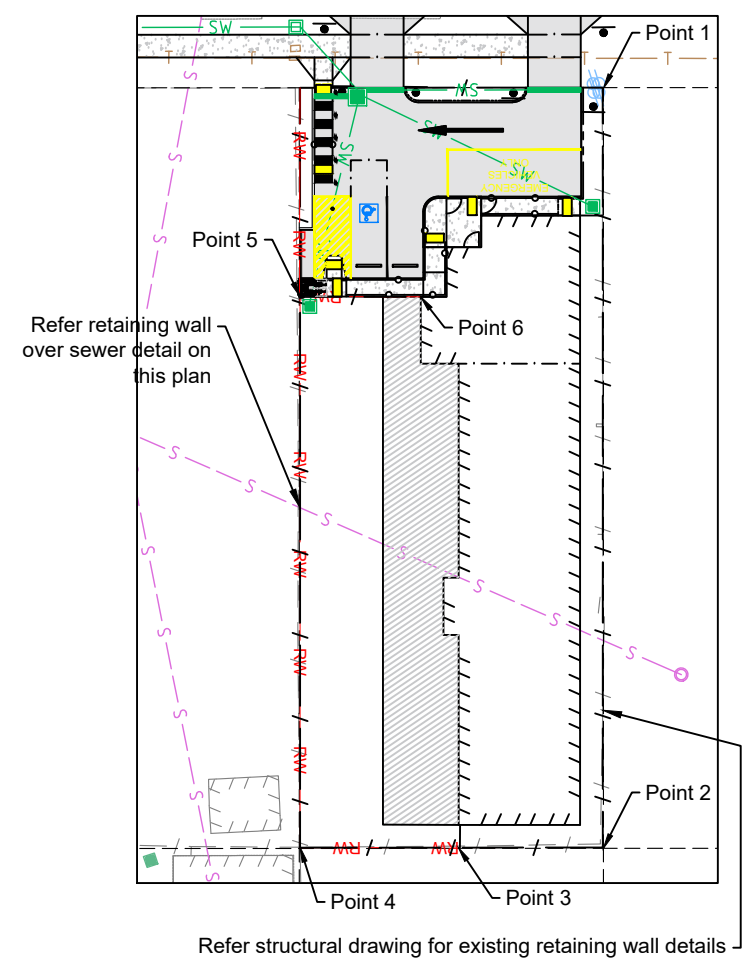
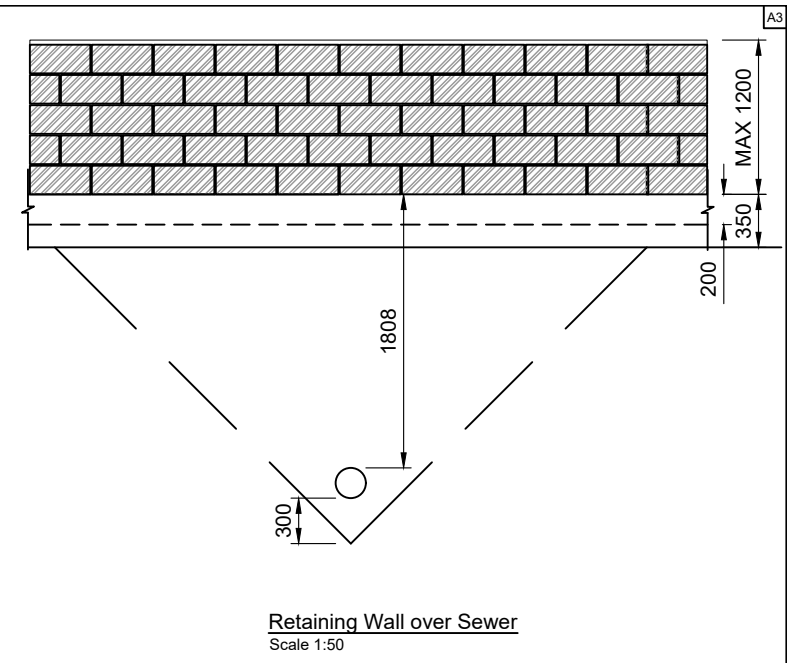
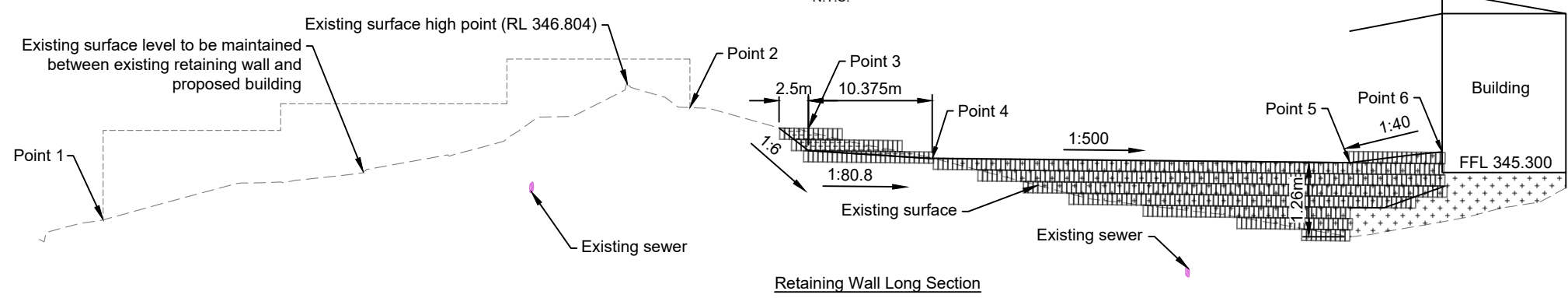
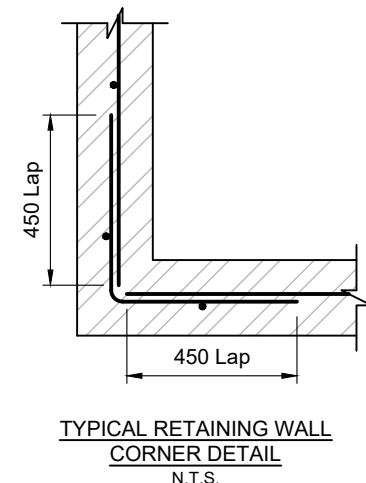
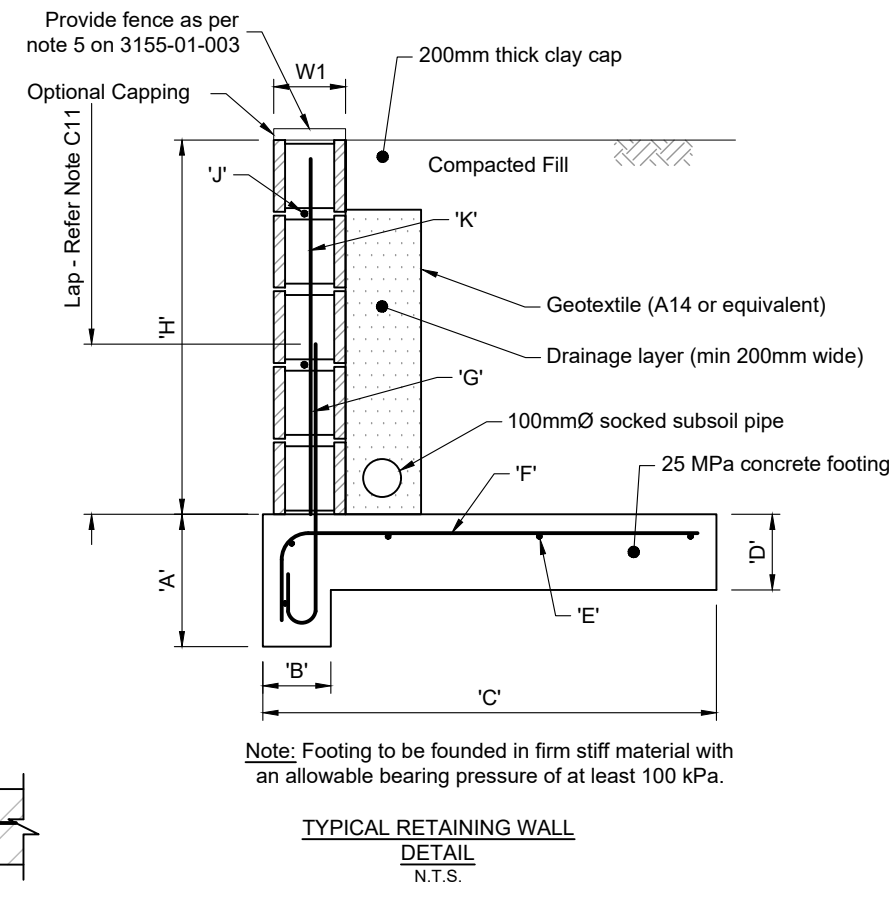
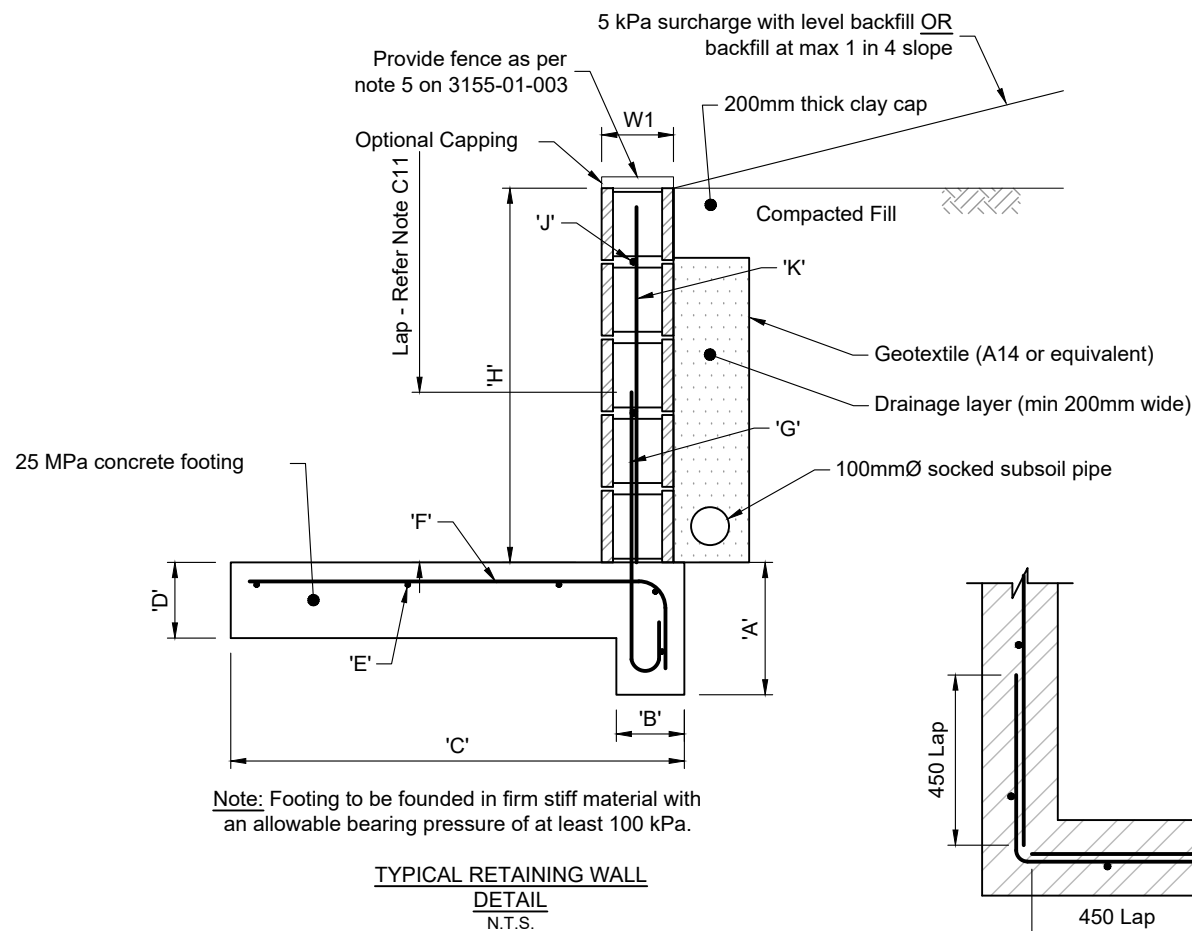
Client: MOUNT ISA DAY NURSERY AND KINDERGARTEN

Project: CHILDCARE CENTRE AT 104 WEST STREET, MENZIES

Detail: RETAINING WALL NOTES

Designed:	R.HUSKING	Scale(s):	N/A
Reviewed:	D.VERROEN	Datum:	AHD
Approved:	D.VERROEN <small>RPEQ 21753</small>	PCE Job No.:	3155-01
Drawing No.:	3155-01-014	Rev. No.:	A

RETAINING WALL SCHEDULE										
'H'	'W1'	'A' (mm)	'B' (mm)	'C' (mm)	'D' (mm)	'E'	'F'	'G'	'J'	'K'
≤ 800	140	350	180	1400	200	N12 at 400crs (min 500 lap)	N12 at 400crs	N12 at 400crs (500 lap)	N12 at 400crs (min 500 lap)	N12 at 400crs
801 to 1000	140	350	180	1600	200	N12 at 400crs (min 500 lap)	N12 at 400crs	N12 at 400crs (500 lap)	N12 at 400crs (min 500 lap)	N12 at 400crs
1001 to 1200	140	350	180	1800	200	N12 at 400crs (min 500 lap)	N12 at 400crs	N12 at 400crs (500 lap)	N12 at 400crs (min 500 lap)	N12 at 400crs
1201 to 1400	190	400	230	1900	250	N16 at 400crs (min 800 lap)	N12 at 400crs	N12 at 400crs (500 lap)	N12 at 400crs (min 500 lap)	N12 at 400crs
1401 to 1600	190	400	230	2100	250	N16 at 400crs (min 800 lap)	N16 at 400crs	N16 at 400crs (800 lap)	N12 at 400crs (min 500 lap)	N12 at 400crs



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A	17/02/2026	FOR APPROVAL				21753

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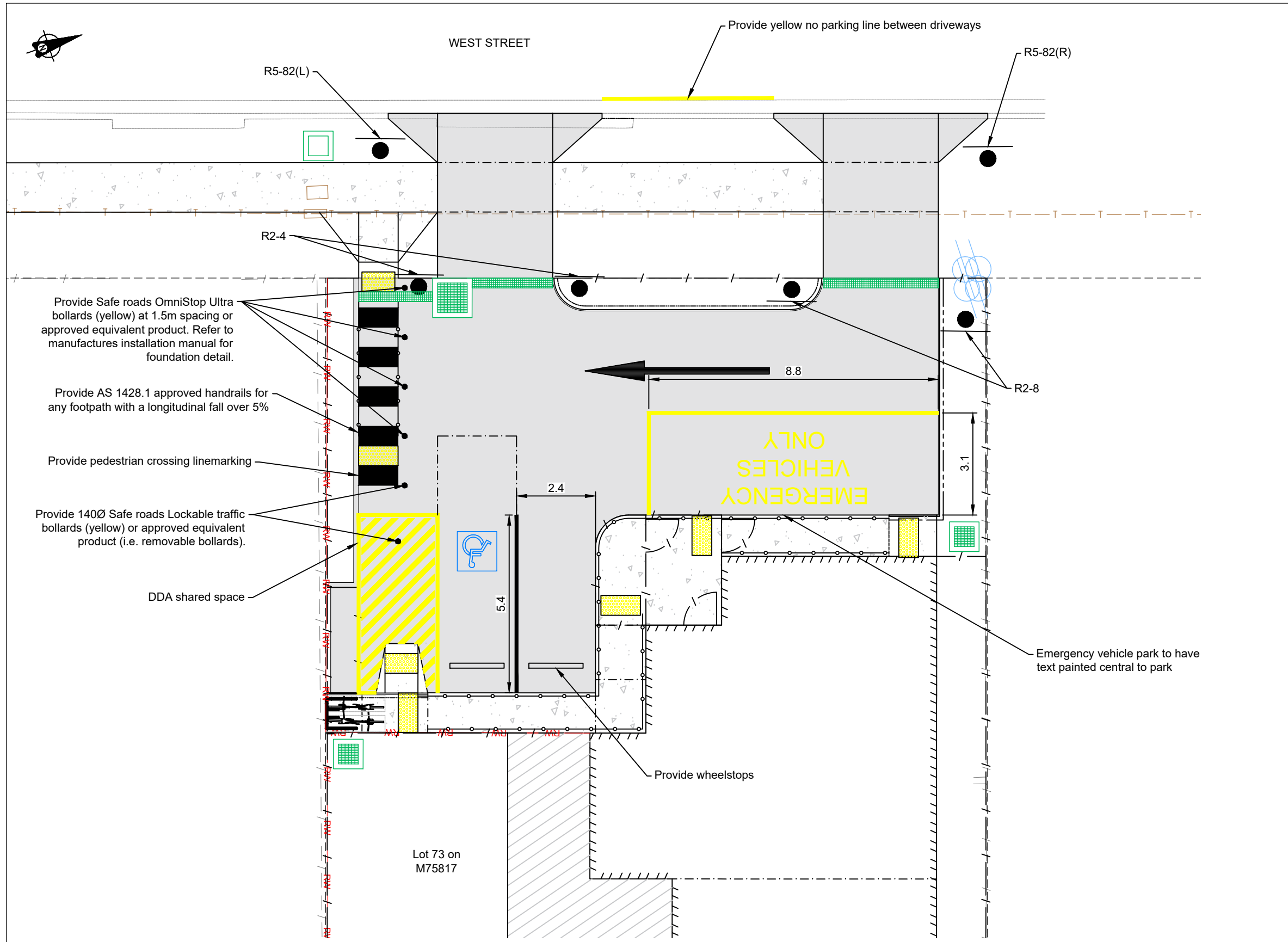
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Client: MOUNT ISA DAY NURSERY AND KINDERGARTEN

Project: CHILDCARE CENTRE AT 104 WEST STREET, MENZIES

Detail: RETAINING WALL DETAILS

Designed:	R.HUSKING	Scale(s):	1:20 (A3)
Reviewed:	D.VERROEN	Datum:	AHD
Approved:	D.VERROEN RPEQ 21753	PCE Job No.:	3155-01
Drawing No.:	3155-01-015	Rev. No.:	A

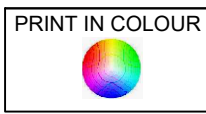
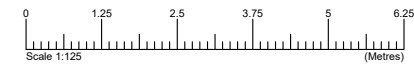
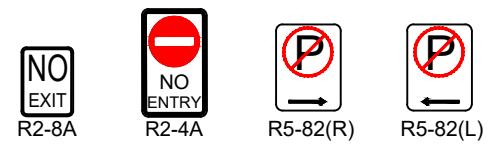


LEGEND

- Existing Lot Boundary
- - - Existing Change of Grade
- ===== Existing Barrier Kerb & Channel
- //// Existing Building Edge
- Existing Concrete Edge
- / - Existing Fence
- Existing Signs
- ⊙ Existing Trees
- OE — Existing Overhead Electrical Line
- ⊙ Existing Street Lighting
- oPP Existing Power Poles
- S — Existing Gravity Sewer & Manhole
- SW — Existing Stormwater Pipe & Manhole
- Existing Stormwater Pits
- W — Existing Potable Water Line & Fire Hydrant
- ⊕ Existing Potable Water Gate Valve
- ⊙ Existing Potable Water Meter
- T — Existing Telecommunication Cable & Pit
- RW — Proposed Retaining Wall
- Proposed Handrail
- ===== Proposed Barrier Kerb & Channel
- Proposed Concrete Edge
- //// Proposed Building
- / - Proposed Fence
- Proposed Signs
- SW — Proposed Stormwater Pipe & Manhole
- Proposed Stormwater Pits
- Proposed Concrete Pavement
- ▨ Proposed Concrete Area

- ROADWORKS NOTES**
- All linemarking and signage to be in accordance with the current version of the 'Manual of Uniform Traffic Control Devices' (MUTCD).
 - Pavement turn arrows are to be installed as per the requirements of MUTCD, Part 2, clause 5.5.
 - All parking bays are to be 5.4m x 2.4m U.N.O.
 - TGSI are to be fibre reinforced polymer tiles installed with both adhesives and screws to prevent lifting and corner curling. TGSI are to be installed in accordance with AS/NZS1428.4:2009 "Design for access and mobility, Part 4.1: Means to assist the orientation of people with vision impairment -Tactile ground surface indicators".

POSITIONS OF EXISTING SERVICES SHOWN ARE PROVIDED FOR GUIDANCE ONLY AND LOCATIONS AND/OR DEPTHS MAY BE INCORRECT. ALSO ADDITIONAL EXISTING SERVICES MAY BE PRESENT ON SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE POSITION OF ALL EXISTING SERVICES ON SITE.



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A	17/02/2026	FOR APPROVAL				19819

PARAGON Consulting Engineers Pty Ltd

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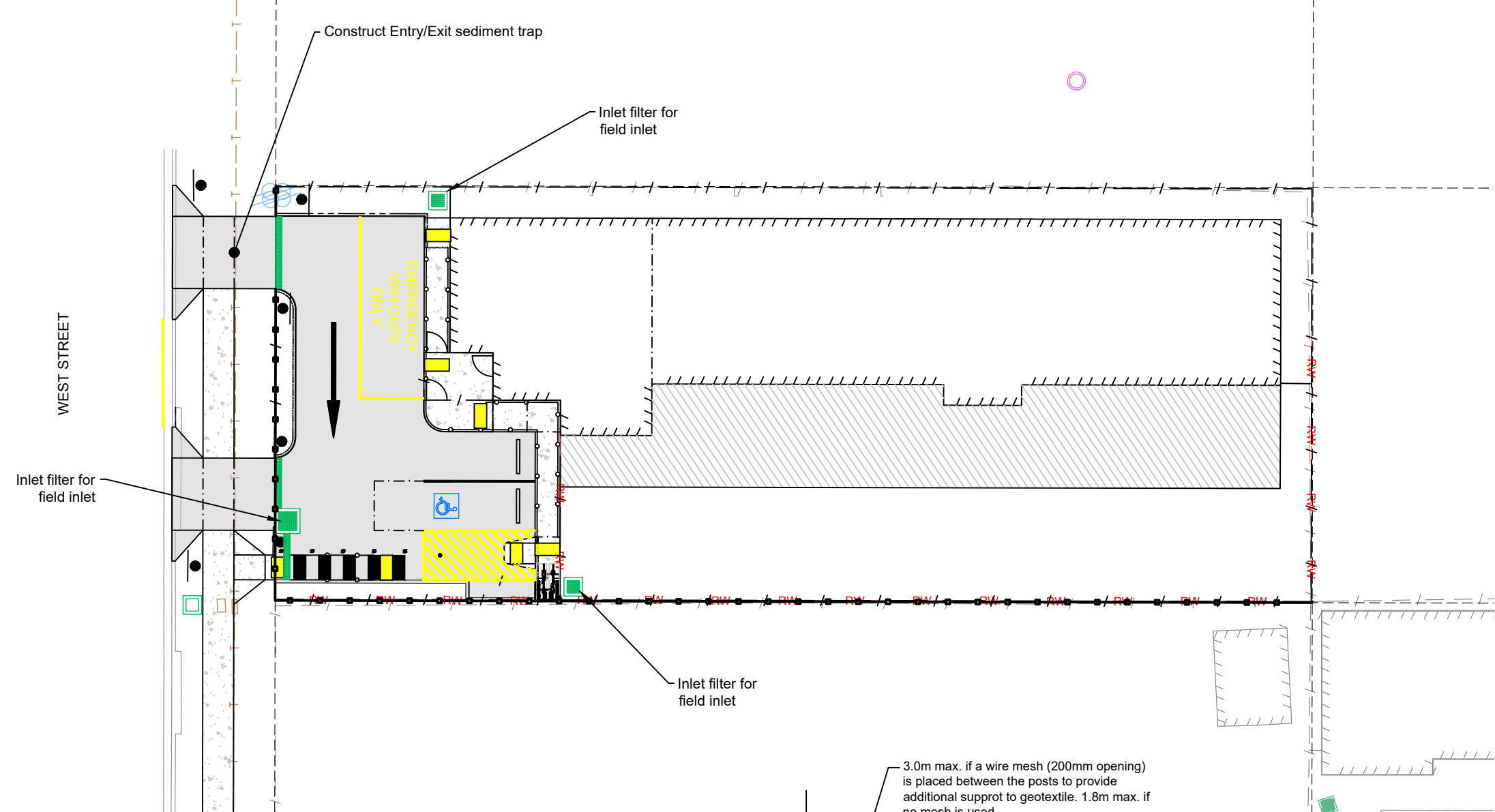
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Web Site: www.paragonce.com
ABN No: 40 109 991 988

Client: MOUNT ISA DAY NURSERY AND KINDERGARTEN

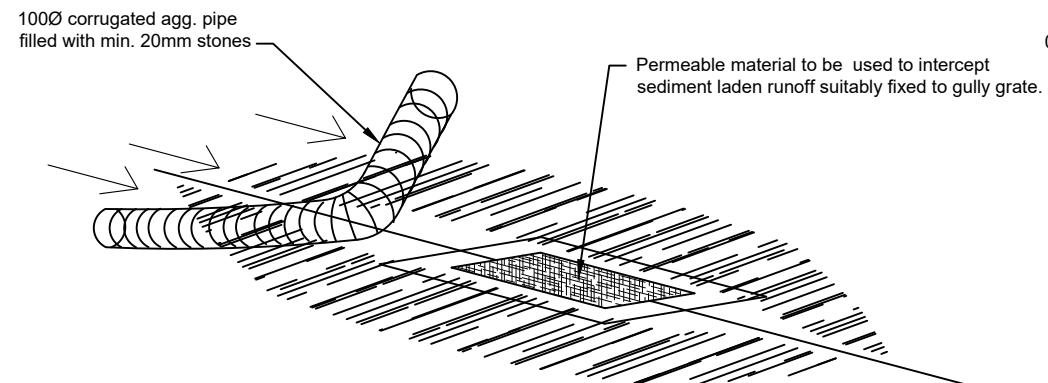
Project: CHILDCARE CENTRE AT 104 WEST STREET, MENZIES

Detail: SIGNS, LINEMARKING & PARKING FURNITURE

Designed:	R.HUSKING	Scale(s):	1:125 (A3)
Reviewed:	B.PURNELL	Datum:	AHD
Approved:	B.PURNELL RPEQ 19819	PCE Job No.:	3155-01
Drawing No.:	3155-01-016	Rev. No.:	A

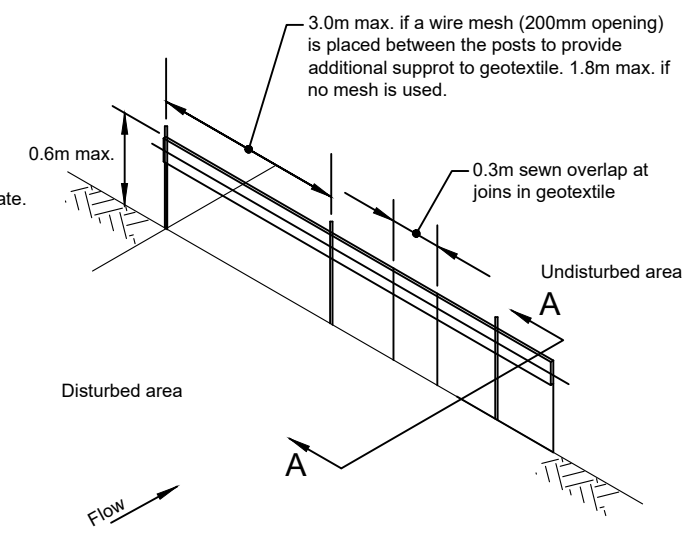


LEGEND	
---	Existing Lot Boundary
- - - -	Existing Change of Grade
=====	Existing Barrier Kerb & Channel
	Existing Building Edge
-----	Existing Concrete Edge
- / -	Existing Fence
●	Existing Signs
⊙	Existing Trees
— OE —	Existing Overhead Electrical Line
⊙	Existing Street Lighting
○ PP	Existing Power Poles
— S —	Existing Gravity Sewer & Manhole
— SW —	Existing Stormwater Pipe & Manhole
■	Existing Stormwater Pits
— W —	Existing Potable Water Line & Fire Hydrant
⊗	Existing Potable Water Gate Valve
⊕	Existing Potable Water Meter
— T —	Existing Telecommunication Cable & Pit
— RW —	Proposed Retaining Wall
—	Proposed Handrail
=====	Proposed Barrier Kerb & Channel
-----	Proposed Concrete Edge
	Proposed Building
- / -	Proposed Fence
●	Proposed Signs
■	Proposed Stormwater Pipe & Manhole
■	Proposed Stormwater Pits
—	Proposed Sediment Fence

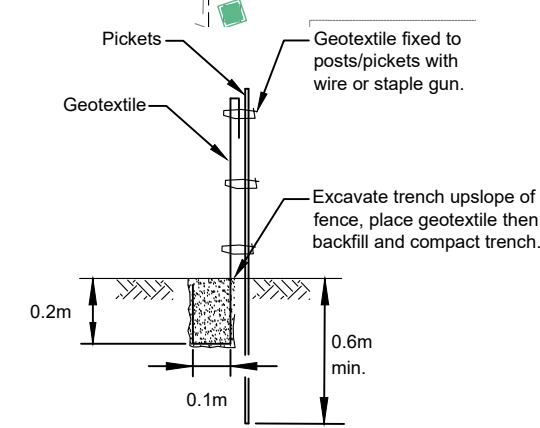


Note:
To prevent sediment laden water from entering stormwater drainage system through grated inlets. to be used only where water cannot be temporarily diverted to a sediment trapping device.

GRATED INLET PROTECTION
N.T.S.



ISOMETRIC VIEW

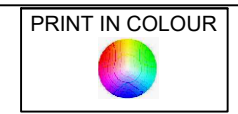
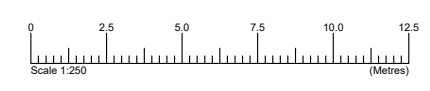


SECTION A

SEDIMENT CONTROL NOTES

1. Erosion and sediment control to be managed in accordance with 'Sediment Management on Construction Sites' by Water by Design.
2. All soil and sediment control devices to be in accordance with IECA 2008, Best Practice Erosion and Sediment Control guidelines.
3. Final profile to be shaped and graded to levels and grades as shown on the plans and sections, to prevent any ponding of overland stormwater runoff.
4. Disturbed surfaces are to be re-topsoiled, grass seeded, fertilised and watered immediately after completion of earthworks.
5. Exposed surfaces to be watered as required to ensure dust control during construction phase.
6. Existing vegetation not intended for retention shall be removed from site.
7. All topsoil / spoil mounds are to be located clear of drainage lines and other areas where they may be eroded. Topsoil mounds should not exceed 1.0m in height.
8. All disturbed earthworks areas with batters 1 on 4 or greater are to be turfed.
9. In accordance with condition 19 of P11-24 the full verge of West Street shall be turfed for the frontage of the subject site.

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Client: **MOUNT ISA DAY NURSERY AND KINDERGARTEN**

Project: **CHILDCARE CENTRE AT 104 WEST STREET, MENZIES**

Detail: **EROSION AND SEDIMENT CONTROL**

Designed:	R.HUSKING	Scale(s):	1:250 (A3)
Reviewed:	B.PURNELL	Datum:	AHD
Approved:	B.PURNELL RPEQ 19819	PCE Job No.:	3155-01
Drawing No.:	3155-01-017	Rev. No.:	A

ABNORMAL RISKS

*Aspects of project, structure or materials as identified by our design which may present significant hazards that are unusual, not obvious or may be difficult to manage

Doc. Code: FRM-72.012
Version: 1.000 (21/08/2023)

PROJECT : **Childcare Centre**
WORKS No.: **3155-01**
DESIGNER : **RMH**
CURRENT REV / DATE : 01/ 11.2025

REVISIONS

Date	Actioned By
Initial Risk Analysis 11.2025	RMH
Final Risk Analysis 11.2025	RMH

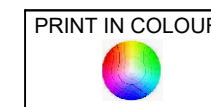
RISK ASSESSMENT LEGEND

CONSEQUENCE	LIKELIHOOD
1 = Insignificant	1 = Almost Certain
2 = Minor	2 = Likely
3 = Moderate	3 = Possible
4 = Major	4 = Unlikely
5 = Catastrophic	5 = Rarely

ID	Hazard Information				Current Arrangement				Alternative Arrangement				Action			Comments / Notes
	Hazard Description	Possible Cause	Persons Affected	Possible Consequence	Current Control Measures	Risk			Improvement Control Options	Residual Risk			Action	Action By	Action Complete	
						Consequence	Likelihood	RISK		Consequence	Likelihood	RISK				
1. GENERAL																
	Grades	Steep pedestrian grades	Pedestrians	Falls from PWD movement instabilities	N/A	3	3	M12	Provide handrailing on steep sections of footpath & where drops greater then 200mm exist	2	4	L5	Install handrailing as shown on design drawings	Contractor		
	Clear zones	Vehicles parking blocking emergency access	Facility users/ emergency services	Unable to access facility	N/A	4	3	H19	Provide emergency only parking bay	3	5	L6	Provide line marking as shown on design drawings	Contractor		
	Pedestrian / Bicycle Facilities	Pedestrian crossing proximity to vehicle movement area	Pedestrians/ carpark users	Pedestrians/ bike riders being struck by moving vehicles	N/A	5	3	H22	Provide vehicle bollards to protect pedestrians from vehicles at the end of the parking aisle	5	5	M15	Install bollards where shown	Contractor		
2. HAZARDS																
	Underground Services	Existing underground services	Contractors/ Residents	Damage to existing services / electrocution	Service shown on design drawings	3	3	M12	Conduct thorough service location before excavating	3	5	L6	Conduct BYDA and locate existing services	Contractor		
3. UTILITIES																
	Existing Water & Sewerage	Existing sewer main running through site	Contractors/ facility users	Damage to existing services	Known services shown on design drawings. Unknown services not shown on design drawings.	5	3	H22	Conduct thorough service location before excavating.	3	5	L6	Conduct BYDA and located existing services	Contractor		
4. CONSTRUCTION																
	Construction under traffic	Works along council roadway	Contractors/ Road users	Accident/ injury	Existing road condition	5	3	H22	Traffic management plan by a suitably qualified person	3	5	L6	Organise Traffic management in advance of work on active roads	Contractor		

Consequences						
Environment	Small loss contained on site/ no off site impact.	Minimal off site emission/ damage	Moderate effect on environment/ off site emissions	Medium to long adverse effect on environment/ off site release	Long term, permanent damage to environment	
Property	Minimal damage to plant or system	Damage impacts on budget and program	Significant damage to plant or system	Extensive damage to plant or system	Complete loss of plant or system	
Safety	Insignificant (No injury/ Non Treatment injury)	Minor (First Aid Injury)	Moderate (Medical Treatment)	Major (Serious Injury/ LT)	Catastrophic (Fatality)	
Likelihood	1	2	3	4	5	
Almost Certain (Expected to occur in most circumstances)	1	M8	H16	H18	E23	E25
Likely (Possibly occur in most circumstances)	2	M7	M10	H17	H20	E24
Possible (May occur at some time)	3	L3	M9	M12	H19	H22
Unlikely (Could occur at some time)	4	L2	L5	M11	M14	H21
Rare (Occurs only in exceptional circumstances)	5	L1	L4	L6	M13	M15

RISK EVALUATION	
E23-E25	EXTREME RISK. ACTION IS TO BE TAKEN IMMEDIATELY TO ADDRESS THE RISK.
H16-H22	HIGH RISK. ACTION IS TO BE TAKEN AS SOON AS POSSIBLE TO ADDRESS THE RISK.
M7-M15	MODERATE RISK. ACTION SHOULD BE TAKEN TO ADDRESS THE RISK.
L1-L6	LOW RISK. LOW RISKS ARE TO BE MONITORED.



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Client:	Project:	Detail:	Designed:	Scale(s):	N/A
MOUNT ISA DAY NURSERY AND KINDERGARTEN	CHILD CARE CENTRE AT 104 WEST STREET, MENZIES	SAFETY IN DESIGN RISK REGISTER	R.HUSKING		
			Reviewed: B.PURNELL	Datum:	AHD
			Approved: B.PURNELL RPEQ 19819	PCE Job No:	3155-01
			Drawing No:	3155-01-018	Rev. No: A