WSU MILPERRA

CONCEPT CIVIL ENGINEERING PLANS TO SUPPORT THE CHILD CARE CENTRE (SUBDIVISION OF LOT 2000 IN DP101147) - 2 BULLECOURT AVENUE, MILPERRA CANTERBURY-BANKSTOWN COUNCIL MIRVAC HOMES (NSW) PTY LTD



DRAWING No.	TITLE	REVISION
2301879-315-001	COVER SHEET	C
2301879-315-002	TYPICAL CROSS SECTIONS	C
2301879-315-003	TYPICAL DETAILS	C
2301879-315-004	DEMOLITION PLAN	C
2301879-315-008	STAGING PLAN	C
2301879-315-010	LAYOUT &LOT BENCHING PLAN	C
2301879-315-015	BULK EARTHWORKS PLAN	C
2301879-315-100	ROAD 2, ROAD 3 & CHILD CARE CARPARK LONGITUDINAL SECTION (SHEET 1 OF 2)	C
2301879-315-101	HORSLEY ROAD & ROAD 9 LONGITUDINAL SECTION (SHEET 2 OF 2)	С
2301879-315-200	ROAD 2 CROSS SECTIONS (SHEET 1 OF 2)	С
2301879-315-201	ROAD 2 CROSS SECTIONS (SHEET 2 OF 2)	C
2301879-315-202	ROAD 3 CROSS SECTIONS	С
2301879-315-203	HORSLEY ROAD CROSS SECTIONS	C
2301879-315-204	ROAD 9 CROSS SECTIONS	C
2301879-315-300	WATER QUANTITY ASSESSMENT	C
2301879-315-400	SOIL AND WATER MANAGEMENT PLAN OVERALL	C
2301879-315-401	SOIL AND WATER MANAGEMENT PLAN DETAILS AND NOTES	C
2301879-315-950	DETENTION BASIN LAYOUT PLAN	C
2301879-315-955	SIGNAGE AND LINE MARKING PLAN	C
2301879-315-960	TURNING MOVEMENTS (SHEET 1 OF 2)	C
2301879-315-961	TURNING MOVEMENTS (SHEET 2 OF 2)	С

SITE PLAN

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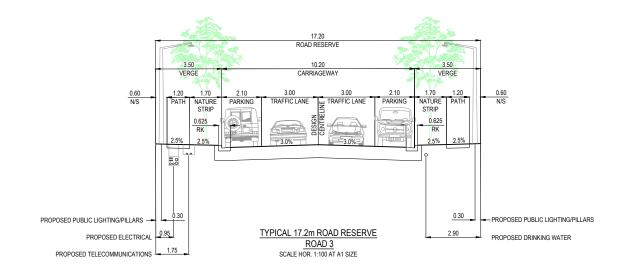


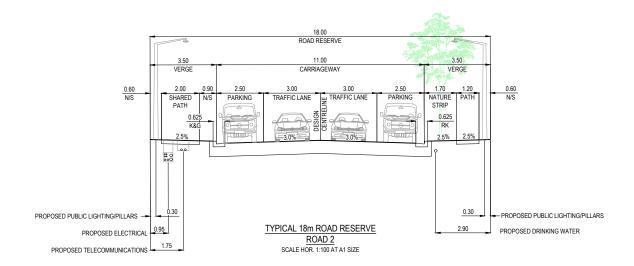
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B.RAU	Beverlage Williams
S.GRAY 06.12.24	Development & Infrastructure Consultants

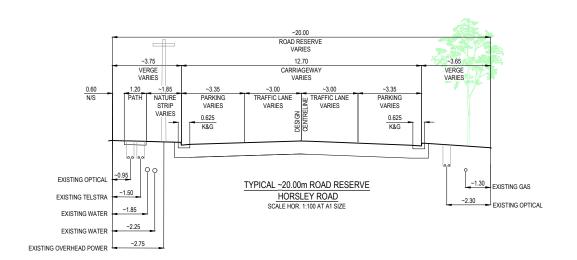
Project Details	WSU MILPERRA, LOT 2 IN DP1291984 2 BULLECOURT AVE. MILPERRA	Sheet	01 of	21
	CHILD CARE CENTRE	Scale		
Drawing Title	COVER SHEET	Project Number	Reference	Drawing

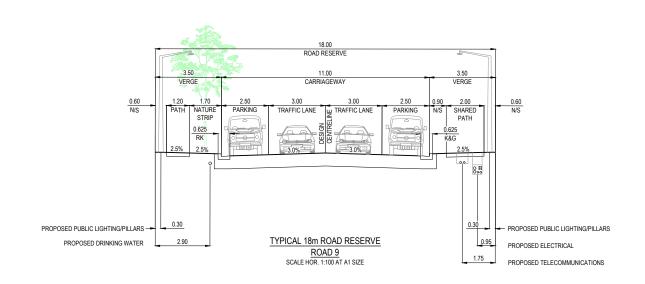
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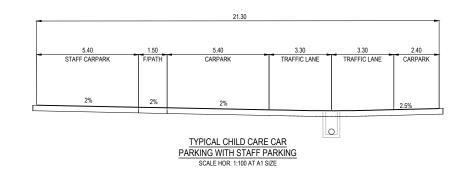
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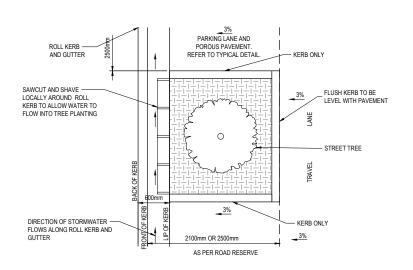
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Development &	S.GRAY	
Level 4, LPC House, Suite 4.05,	06.12.24	

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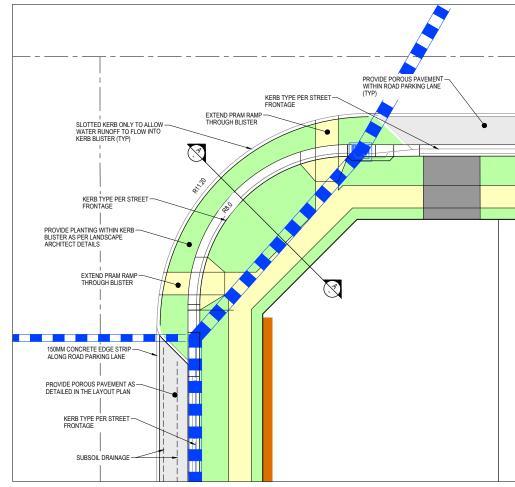
evelopment & Infrastru	cture Consultants
evel 4, LPC House, Suite 4.05, 3 Fordham way	ph: 02 46255055

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ect	WSU MILPERRA, LOT 2 IN DP1291984 2 BULLECOURT AVE, MILPERRA	Sheet	02 of	21	
	CHILD CARE CENTRE	Scale	1A/A1		
ving	TYPICAL CROSS SECTIONS	AS SHO	VVIN		
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TYPICAL IN-PAVEMENT STREET TREE DETAIL N.T.S



TYPICAL KERB BLISTER PLAN AND DETAILS
N.T.S

CONTAINERISED STREET TREE AS SPECIFIED. GRADE MULCH SO THAT IT IS KEPT 100mm CLEAR OF THE STEM COLLAR. MULCH TO BE INERT 5-10mm GRAVEL FORM SMALL BERMED DISH JUST OVERLAPPING EDGE OF ROOTBALL TO FACILITATE ESTABLISHMENT WATERING. GRAVEL MULCH, AS SPECIFIED, TO BASE OF TREE. BIOFILTRATION LAYER - IMPORTED LOW ORGANIC CONTENT — SOIL (80:20 WASHED SAND:SCREENED SOIL BLEND BY BENEDICT OR APPROVED EQUIVALENTI, MINIMUM OF 600mm DEPTH. KERB, PRECAST CONCRETE OR TIMBER EDGE_ STRIP AS SPECIFIED BY COUNCIL WATER -PONDING LEVEL. BIOFILTRATION PONDING LEVEL (TYPICALLY 150mm WITH PROTECTIVE BOLLARD AS SPECIFIED BY COUNCIL. 50MM FREE BOARD). BIO-FILTER INLET LEVEL. - FLUSH KERB TO BE LEVEL WITH PAVEMENT KERB TYPE TO BE AS PER NOMINATED ROAD SECTION 50mm 'SHOTCRETE' WALL OR HDPE ROOT BARRIER ON ROADSIDE ONLY. _RECYCLED GLASS SAND TRANSITION LAYER 100mm DEPTH (BY BENEDICT OR APPROVED EQUIVALENT) SUBSOIL DRAINAGE

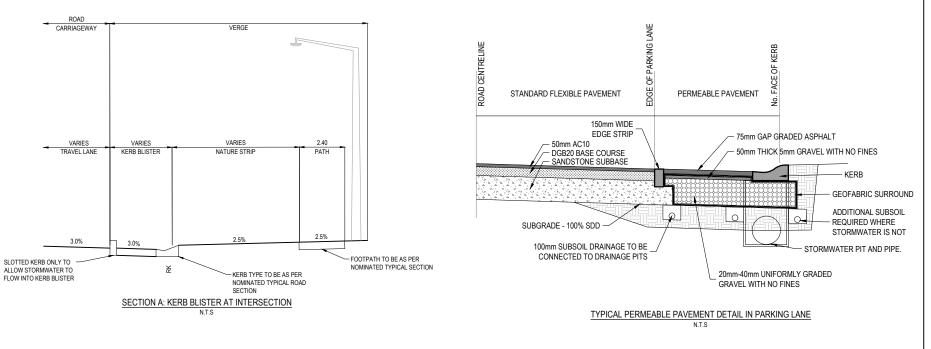
LAYER 150mm MIN DEPTH
(REFER NOTES 2.9 FOR DETAILS). _100mm DIA SLOTTED PVC PIPE (NO GEO FABRIC OR 'SOCK').
CONNECT TO APROVED STORMWATER SYSTEM. HOLD POINTS: SECTION A-A SCALE: NTS COUNCIL TO INSPECT AT COMPLETION OF CONCRETE KERB TO ALLOW CONFIRMATION OF CORRECT LEVELS/DEPTH.

COUNCIL TO INSPECT AT COMPLETION OF ALL LAYERS-DRAINAGE,

- TRANSITION OF BIOFILTER & DEPTH OF GRAVEL MULCH

 3. COUNCIL TO INSPECT THE POSITIONING & COVERING OF SUB-SOIL DRAINAGE

TYPICAL IN-PAVEMENT STREET TREE DETAIL



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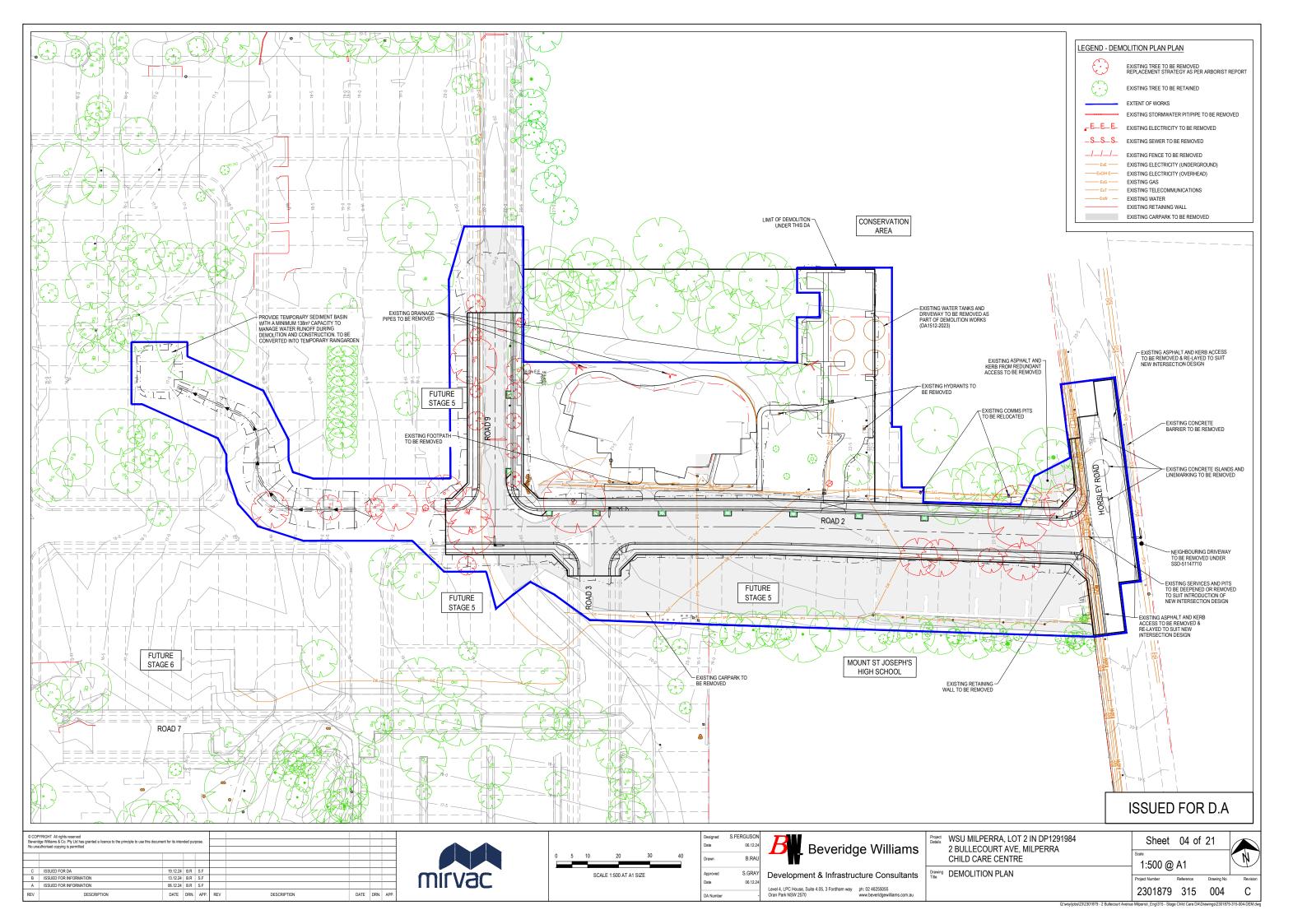


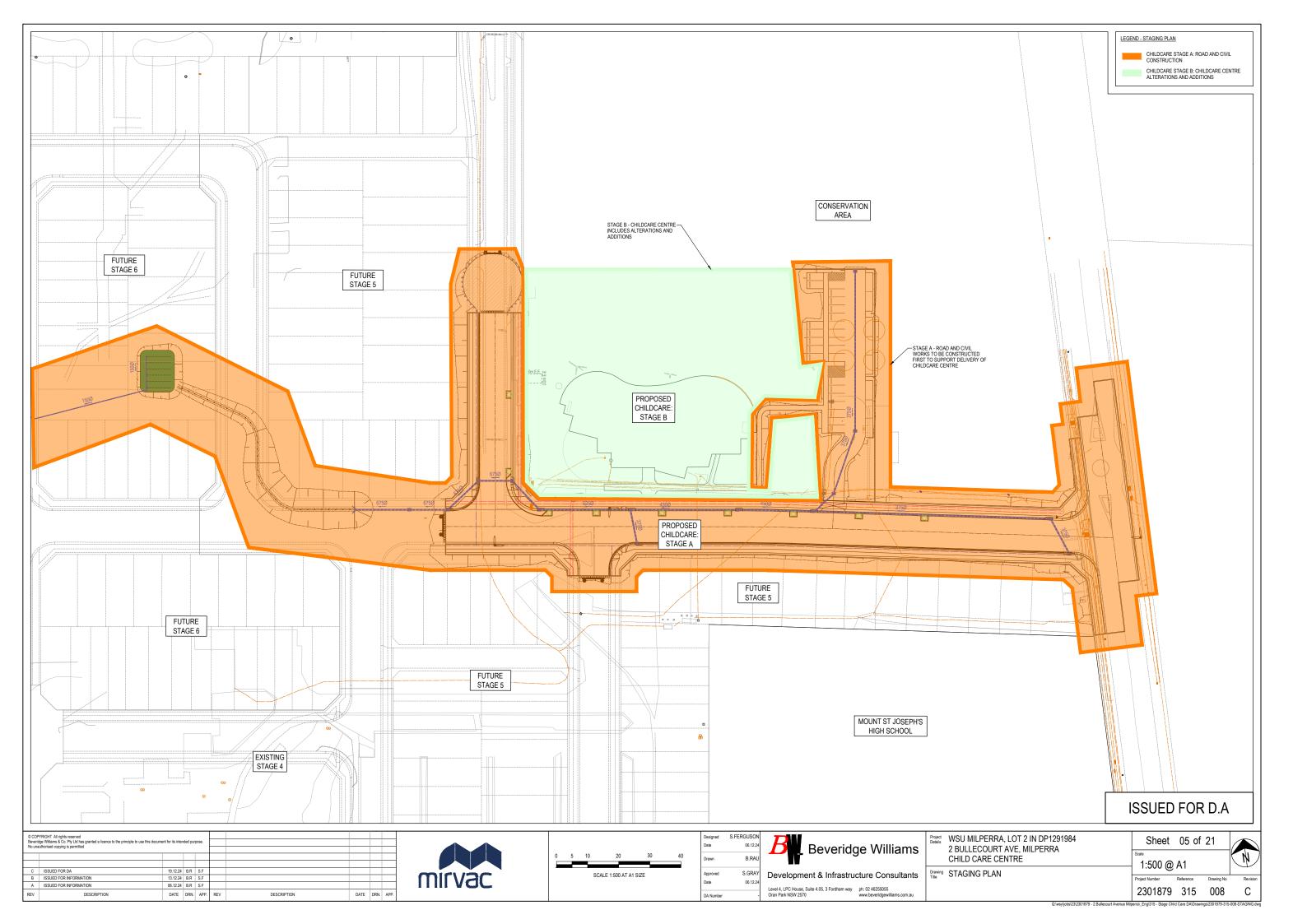
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S.GRAY 06.12.24	Development & Infrastru	cture Consul
r -	Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570	ph: 02 46255055 www.beveridgewilliams.o

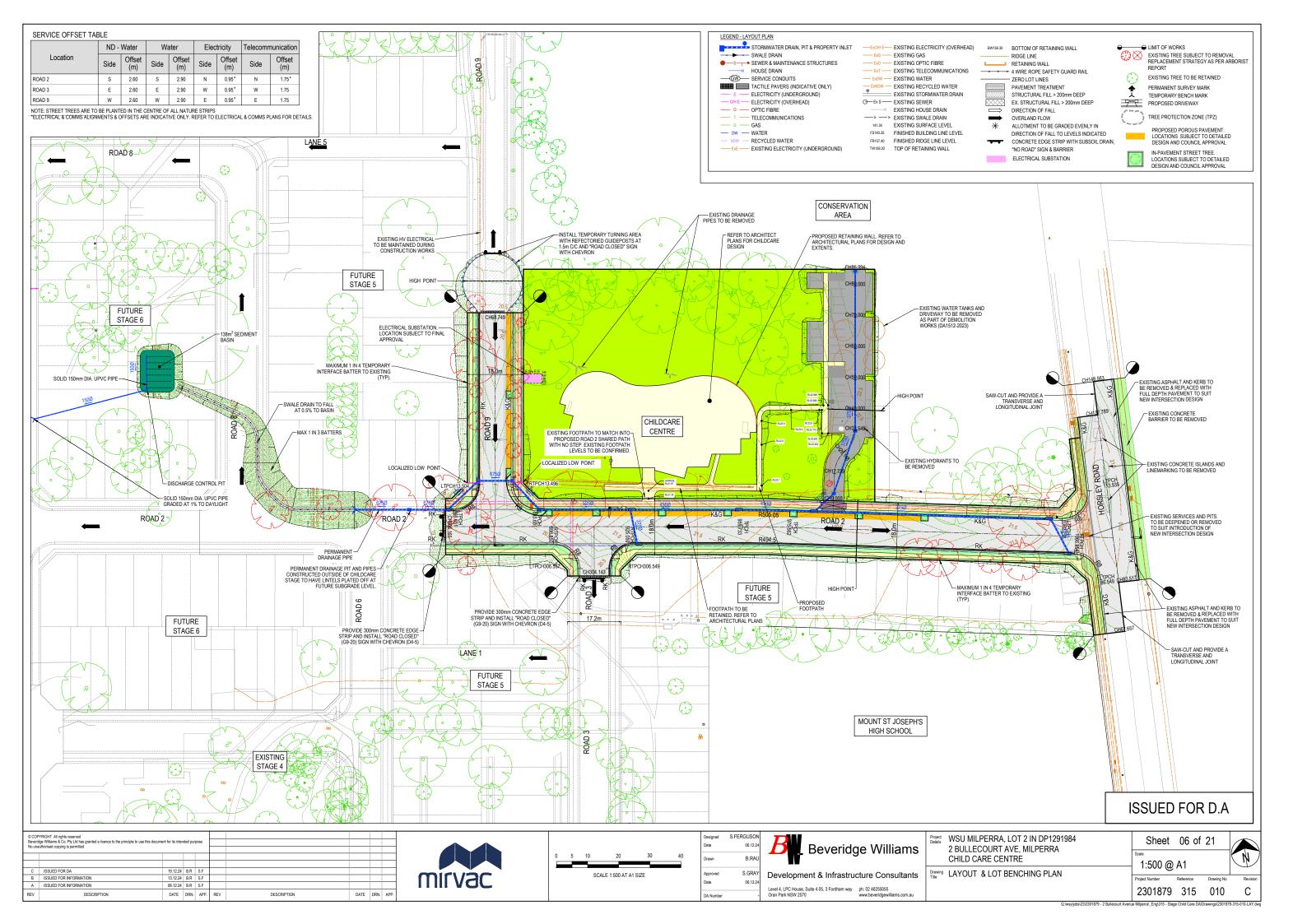
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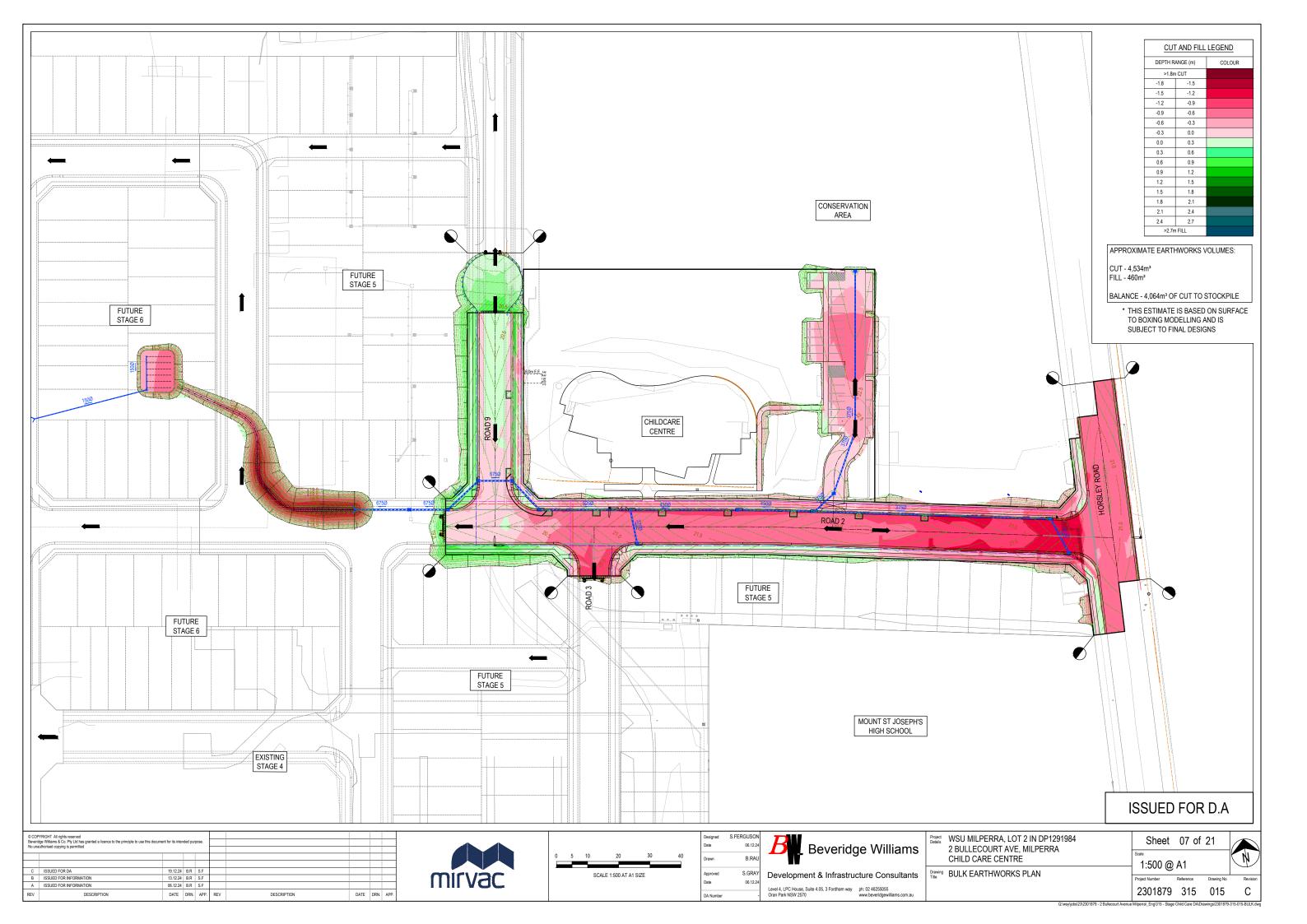
ject ails	WSU MILPERRA, LOT 2 IN DP1291984 2 BULLECOURT AVE, MILPERRA CHILD CARE CENTRE
wing	TYPICAL DETAILS

Sheet 03 of 21 AS SHOWN 2301879 315 003

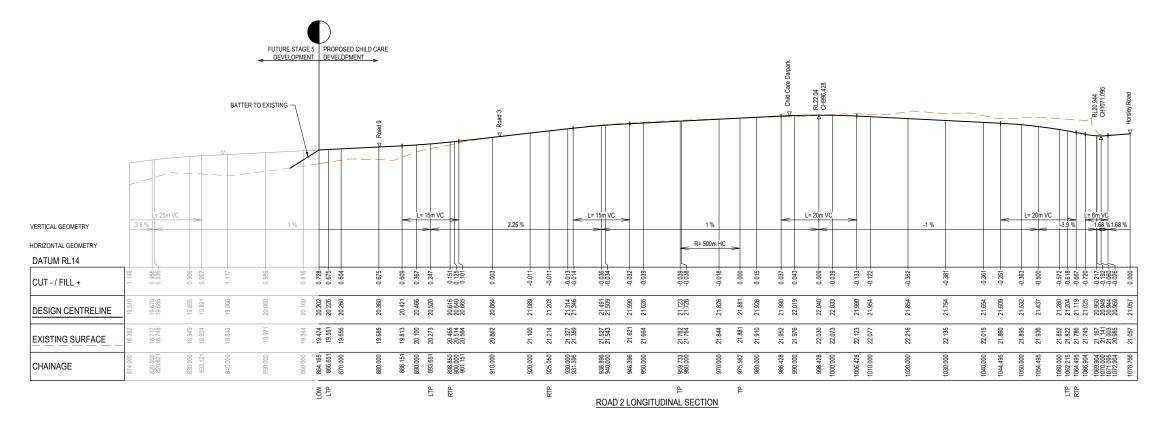


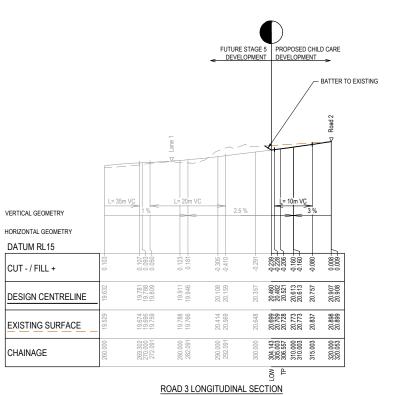


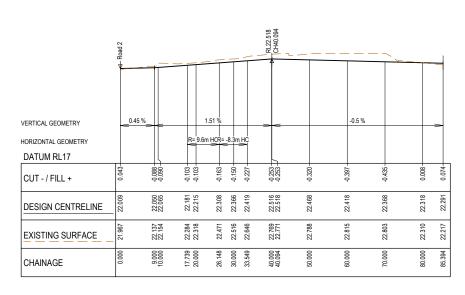












CHILD CARE CARPARK LONGITUDINAL SECTION

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RAY	Development & Infrastructure Consultants
-	Level 4, LPC House, Suite 4.05, 3 Fordham way ph: 02 46255055 Oran Park NSW 2570 ph: 02 46255055 www.beveridgewilliams.com.au

S.FERGU

Project Details	WSU MILPERRA, LOT 2 IN DP1291984 2 BULLECOURT AVE, MILPERRA CHILD CARE CENTRE
Drawing Title	ROAD 2, ROAD 3 & CHILD CARE CARPARK

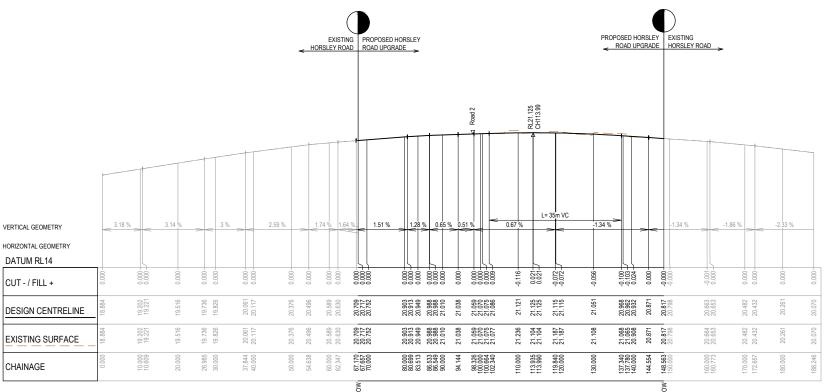
LONGITUDINAL SECTION

(SHEET 1 OF 2)

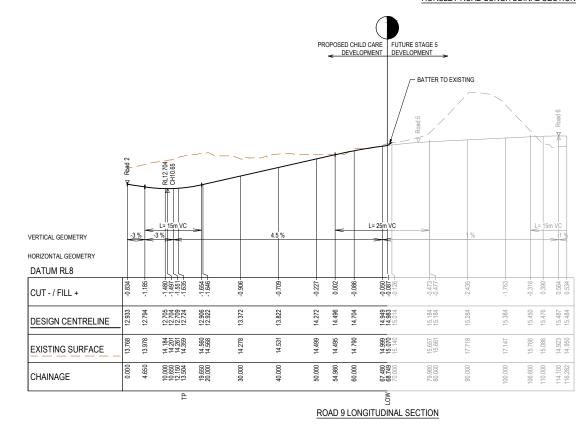
Sheet	08 of	21
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Project Number	Reference	Drawing No

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HORSLEY ROAD LONGITUDINAL SECTION



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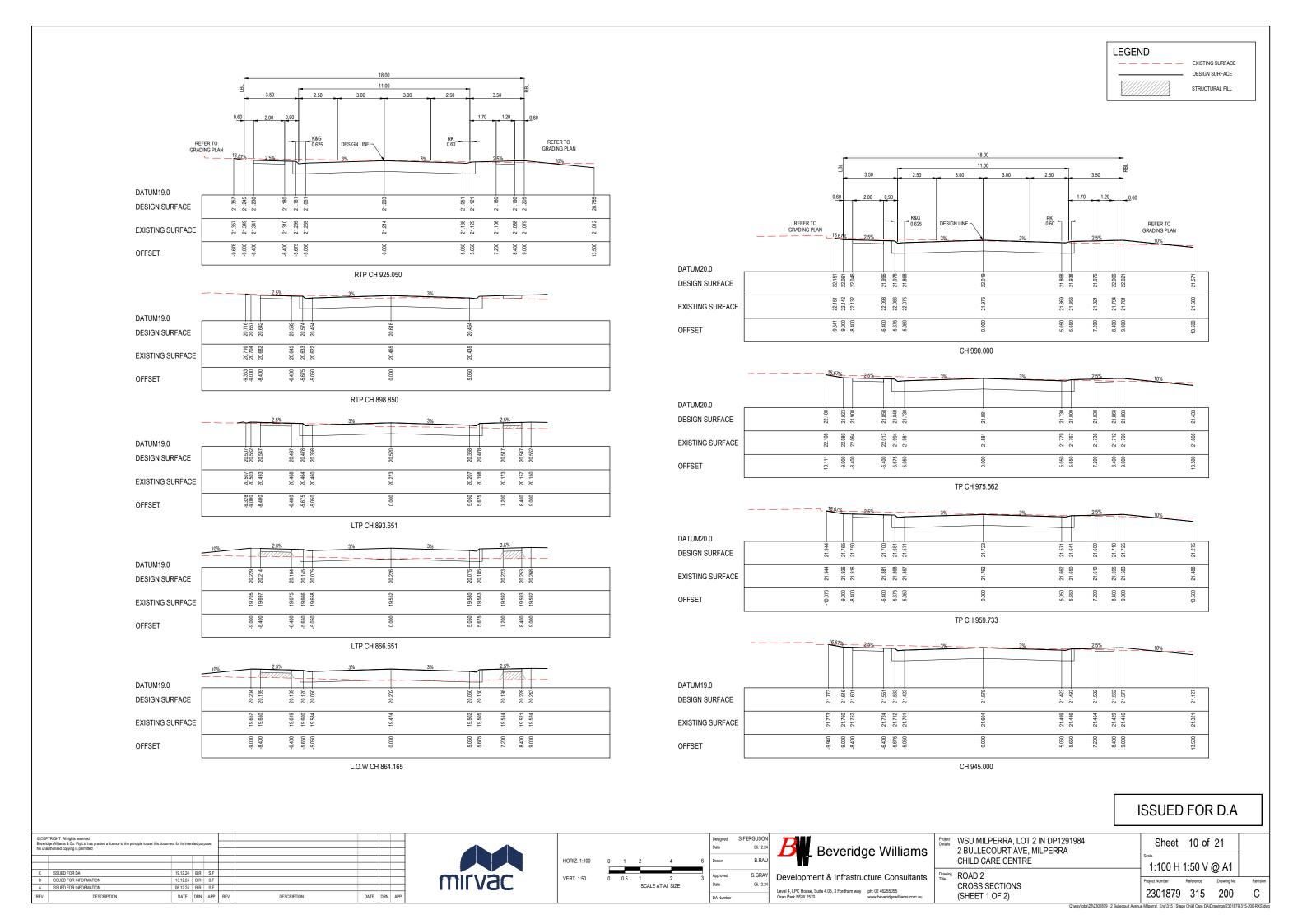
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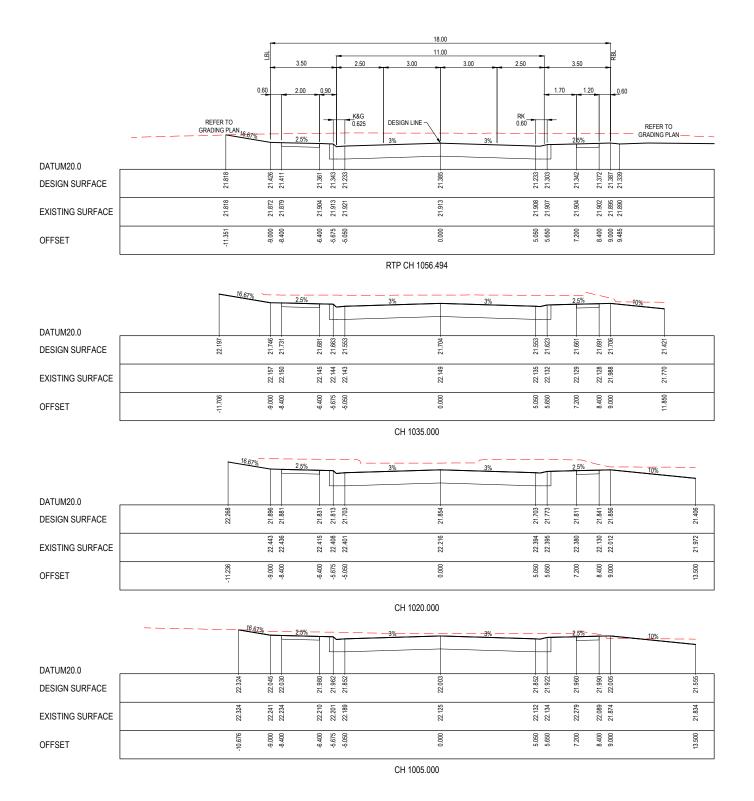
WSU MILPERRA, LOT 2 IN DP1291984 2 BULLECOURT AVE. MILPERRA	Sheet 09 of 21
CHILD CARE CENTRE	1:500 H 1:100 V @ A1
wing HORSLEY ROAD & ROAD 9	

LONGITUDINAL SECTION

(SHEET 2 OF 2)







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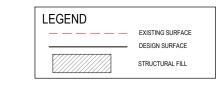


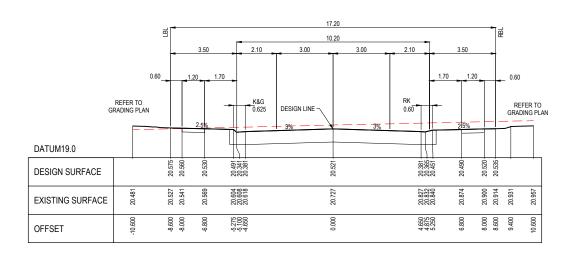




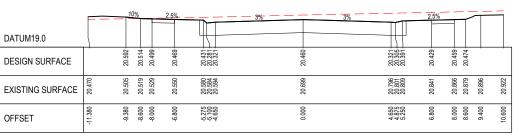
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Drawing Title	ROAD 2

WSU MILPERRA, LOT 2 IN DP1291984 2 BULLECOURT AVE, MILPERRA	Sheet 11 of 21	
HILD CARE CENTRE	Scale 4.400 LL 4.50 V @ A4	
ROAD 2	1:100 H 1:50 V @ A1	
CROSS SECTIONS	Project Number Reference Drawing No	Revision
(SHEET 2 OF 2)	2301879 315 201	С





TP CH 306.549



L.O.W CH 304.143

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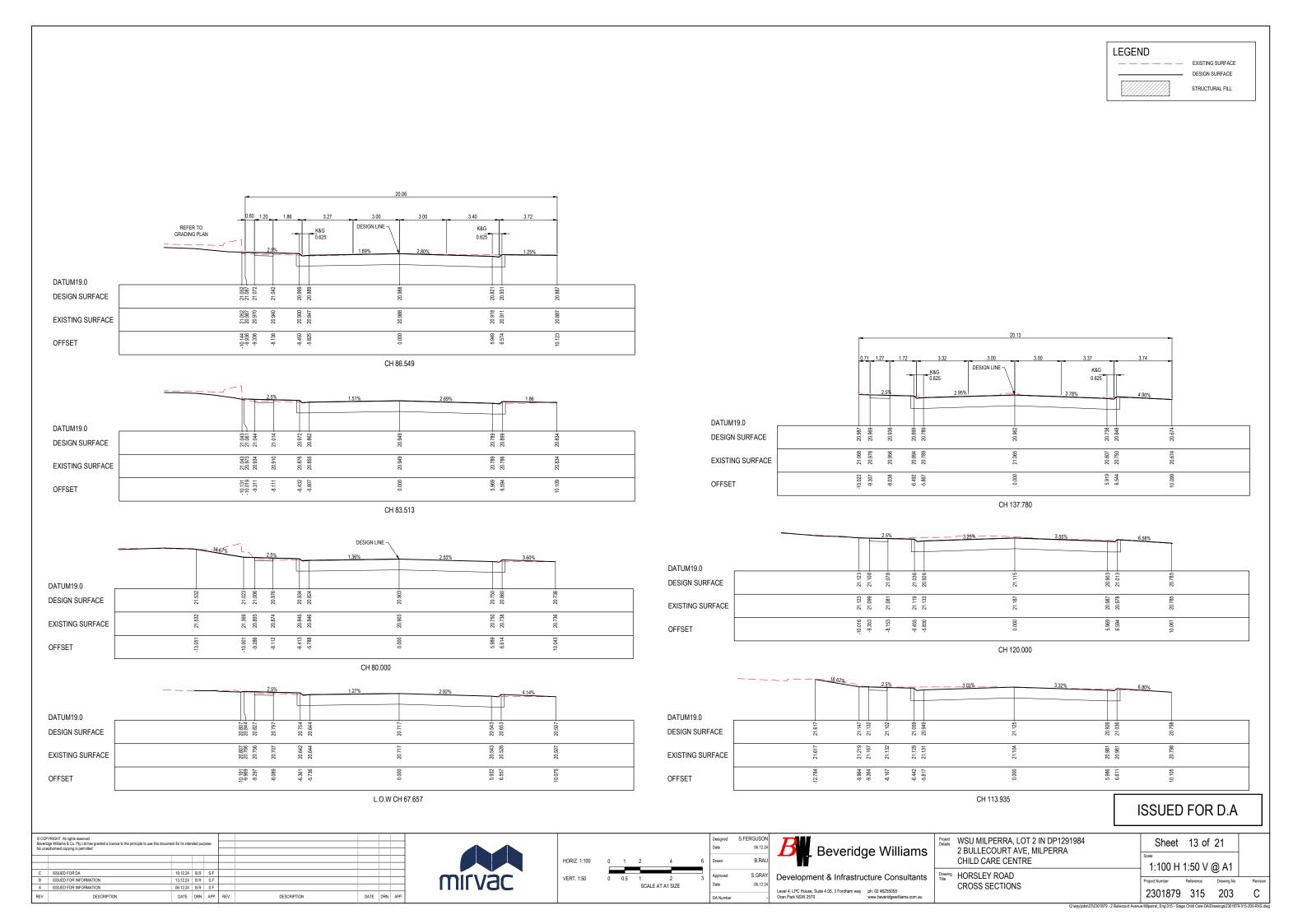
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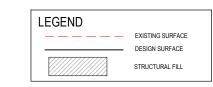
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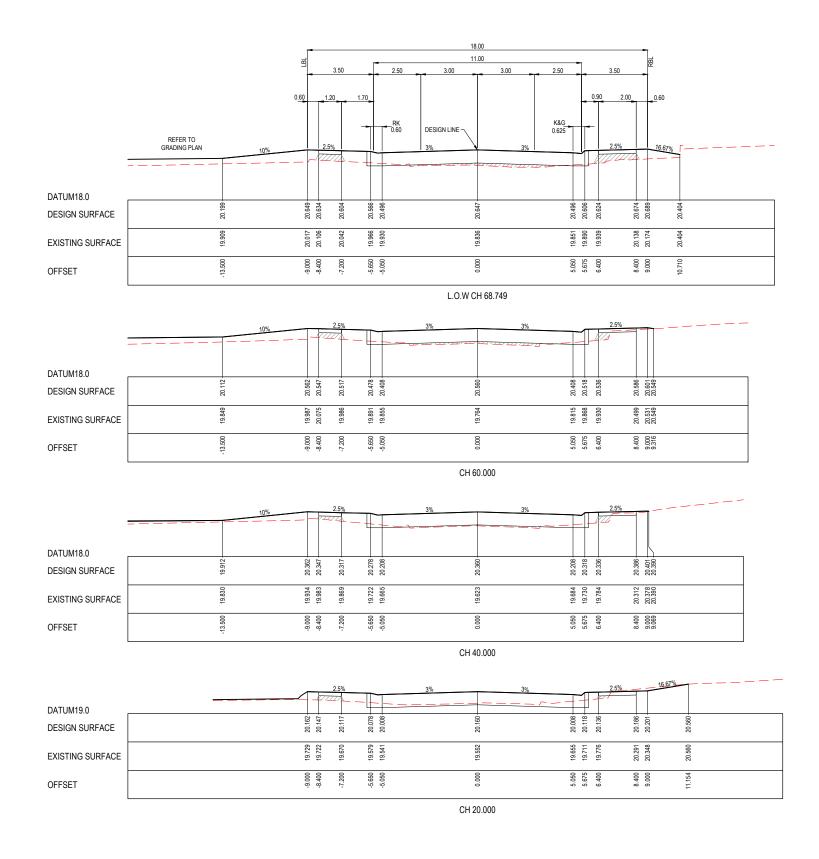
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Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570	ph: 02 46255055

Project Details	2 BULLECOURT AVE. MILPERRA	Sheet	12 of	21	
		Scale 1:100 H 1:50 V @ A1			
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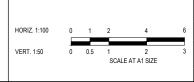






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iams	Project Details	WSU MILPERRA, LOT 2 IN DP129198 2 BULLECOURT AVE, MILPERRA CHILD CARE CENTRE
cultante	Drawing	ROAD 9

2 BULLECT CHILD CAI Drawing ROAD 9	WSU MILPERRA, LOT 2 IN DP1291984 2 BULLECOURT AVE. MILPERRA	Sheet	14 of	21	
	CHILD CARE CENTRE	Scale 1:100 H	1·50 \/	@ Δ1	
		Project Number	Reference	Drawing No	Revi
	CROSS SECTIONS	2301879	315	204	С



SITE UNDER EXISTING CONDITION

DENOTES 100% IMPERVIOUS AREA UNDER EXISTING CONDITION. AREA = 9,462m²



DENOTES PERVIOUS AREA UNDER EXISTING CONDITION. AREA = 8,904m²

SUMMARY UNDER EXISTING CONDITIONS THE SITE HAS A GREATER IMPERVIOUS AREA THAN UNDER THE PROPOSED CONDITIONS. A DRAINS MODEL HAS BEEN PREPARED FOR BOTH SCENARIOS WHICH DEMONSTRATES THAT THE PROPOSED DEVELOPMENT PRODUCES LESS STORMWATER RUNOFF THAN UNDER EXISTING CONDITIONS. AS SUCH, AN OSD BASIN IS NOT REQUIRED.

SITE UNDER PROPOSED CONDITIONS



DENOTES 100% IMPERVIOUS AREA UNDER PROPOSED CONDITION. AREA = 6,895m²



DENOTES PERVIOUS AREA UNDER PROPOSED CONDITION. AREA = 11,471m²

WARNING

WAKNING
BEWARE OF UNDERGROUND SERVICES
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
ocate all underground services before commencement of work.

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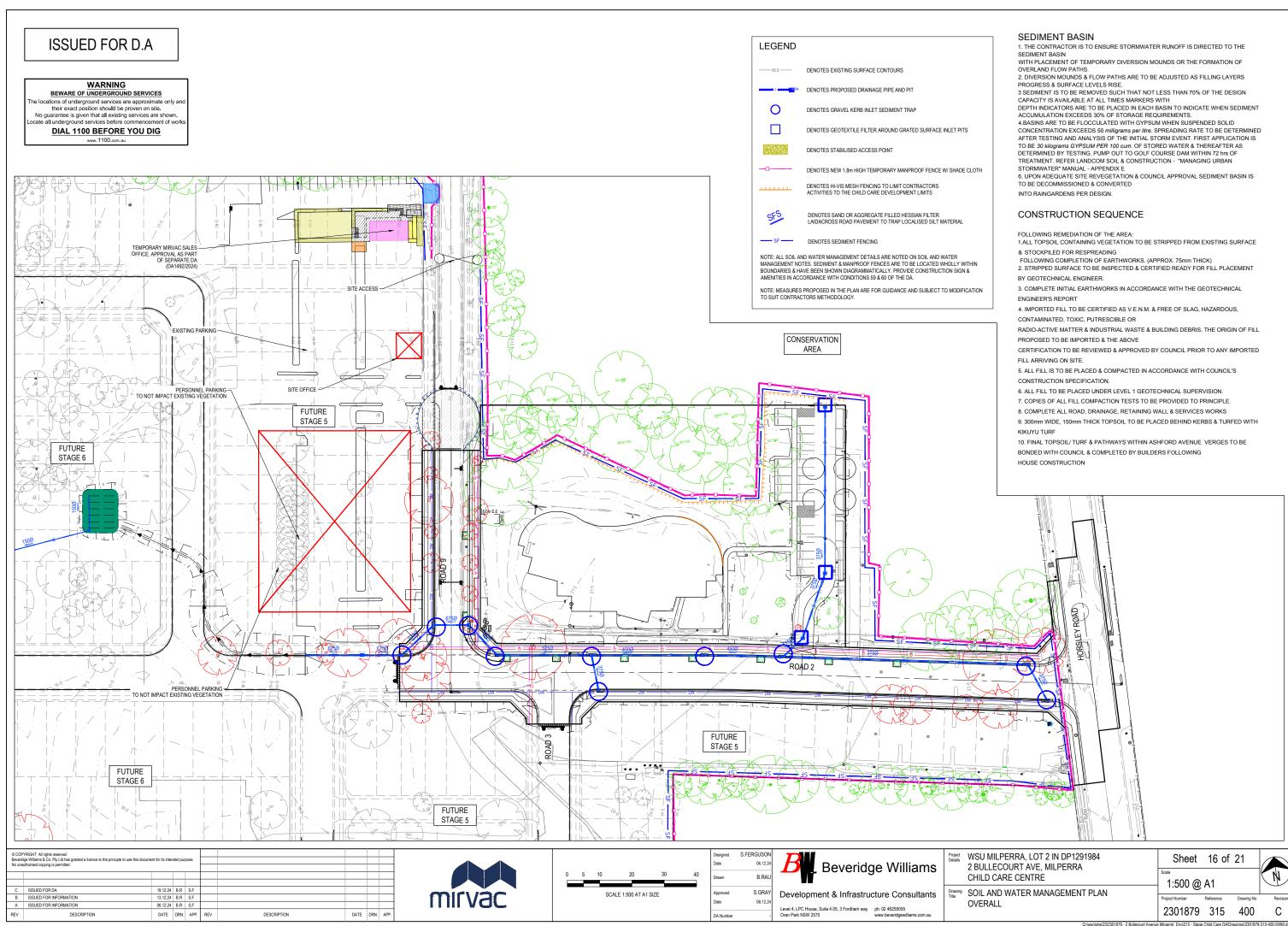
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GRAY 06.12.24	Development & Infrastructure Consultants
-	Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570 ph: 02 46255055 www.beveridgewilliams.com.au

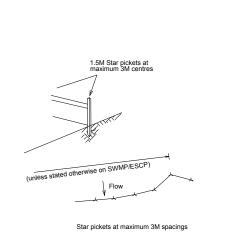
Project Details	WSU MILPERRA, LOT 2 IN DP1291984 2 BULLECOURT AVE, MILPERRA CHILD CARE CENTRE

Consultants Drawing WATER QUANTITY ASSESSMENT

Sheet 15 of 21 1:750 @ A1

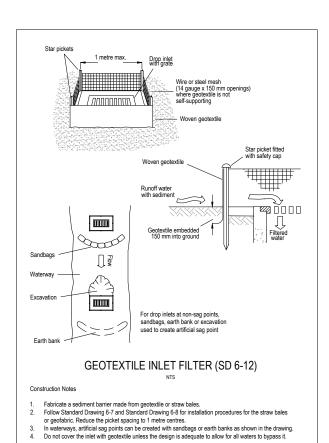
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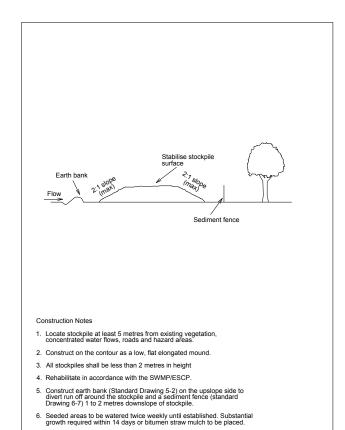




- Construct sediment fence as close as possible to parallel to the contours of the site
- 2. Drive 1.5 metre long star pickets into ground, 3 metres apart.
- 3. Dig a 150MM deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched
- Fix self supporting geotextile to upslope side of posts with wire ties or as recommended by geotextile manufacturer
- 6. Join sections of fabric at a support post with a 150mm overlap

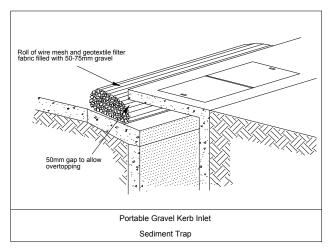
SEDIMENT FENCE

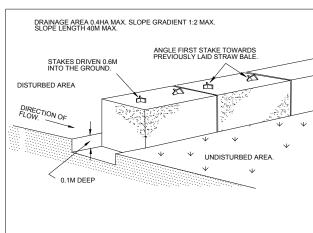


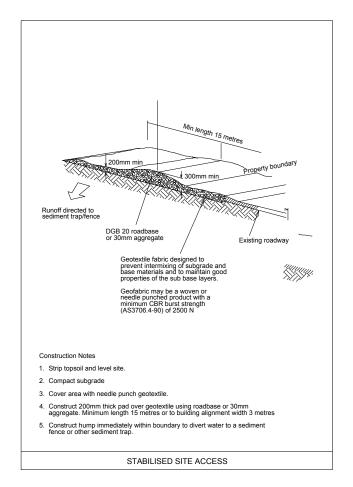


STOCKPILES

7. Dust to be controlled by watering







SEDIMENT & EROSION CONTROL

- SE1. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO DISTURBANCE OF THE WORK AREA & TO BE CARRIED OUT IN ACCORDANCE WITH LANDCOM'S "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION" VOLUME 1
- SE2. THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM SUCH DEVICES BEFORE MORE THAN 60% OF THEIR CAPACITY IS LOST. ALL THE SILT REMOVED SHALL BE DISPOSED OF AS DIRECTED BY THE SUPERINTENDENT. NO 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 LONGER AS MAY BE DIRECTED BY THE SUPERINTENDENT OR COUNCIL.
- SE3. VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION CONFINING ACCESS WHERE POSSIBLE TO PROPOSED OR EXISTING ROAD ALIGNMENTS.
- WHEN ANY DEVICES ARE TO BE HANDED OVER TO COUNCIL, THEY SHALL BE IN A CLEAN & STABLE CONDITION.
- THE CONTRACTOR SHALL MAINTAIN ALL REVEGETATED AREAS INCLUDING WATERING UNTIL FINAL COMPLETION OF WORKS.
- SE6. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL UNTIL FINAL COMPLETION OF WORKS.
- SET. THE CONTRACTOR'S RESPONSIBILITY IS TO ENSURE ALL NECESSARY MEASURES SO AS TO PROTECT ALL DISTURBED AREAS AS PER NOTE SE1. ALL ADDITIONAL COSTS ARE TO BE REFLECTED IN TENDER PRICE EVEN IF SUCH MEASURES ARE NOT INDICATED ON THE SEDIMENT AND EROSION CONTROL PLAN.
- SE8. THE CONTRACTOR MUST COMMENCE REHABILITATION WITHIN 5 DAYS OF ANY SITE
- SE9. A 0.3m WIDE STRIP OF TURF TO BE PLACED BEHIND THE EXISTING KERB IN ASHFORD AVENUE
- SE10. PROVIDE TURF AROUND ALL SURFACE INLET PITS IN ADDITION TO THE GEOTEXTILE INLET FILTER.
- SE11. STOCKPILES TO BE STABILISED WITHIN 14 DAYS OF COMPLETING THE STOCKPILE

NOTES

ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE LANDCOM'S MANUAL "MANAGING URBAN STORMWATER" 4TH EDITION AUGUST 2004.

WORKS SHALL BE UNDERTAKEN AS OUTLINED ON PLANS EROSION AND SEDIMENT CONTROL MEASURES AFFECTED BY WORKS ARE TO BE RE-ESTABLISHED PRIOR TO THE COMPLETION OF EACH DAY'S WORK.

THE CONTRACTOR IS TO STABILISE ALL STOCKPILES AND DISTURBED AREAS AS SOON AS THEY ARE FORMED TO FINAL LEVELS. STABILISATION TO BE BY HYDROSEEDING / SPRAY GRASS, OR AS DIRECTED BY COUNCIL ENGINEER.

SEED MIXTURE FOR FOOTWAYS AND OTHER AREAS UNDER THE CONTROL OF COUNCIL ARE TO BE IN ACCORDANCE WITH COUNCIL'S SPECIFICATION. FOR OTHER AREAS, THE LIST OF PLANT SPECIES FOR TEMPORARY COVER IS:

JAPANESE MILLET AND OATS(RYECORN) AT 25kg/ha EACH - SPRING/SUMMER JAPANESE MILLET AT 10kg/ha AND OATS(RYECORN) AT 30kg/ha - AUTUMN/WINTER

ALL SEEDED AREAS ARE TO BE WATERED TWICE WEEKLY.

WHERE SURFACE SLOPES ARE MORE THAN 4H:1V BATTER THEY SHALL BE TURFED.

DUST CONTROL MEASURES SHALL BE IMPLEMENTED CONTINUOUSLY DURING CONSTRUCTION WORKS. SUCH MEASURES ARE TO BE TO THE SATISFACTION OF THE SUPERINTENDENT AND COUNCIL.

TOPSOIL SHALL BE RESPREAD ON CONSTRUCTION AREAS AND STABILISED AS SOON AS POSSIBLE WITHIN 60 DAYS OF DISTURBANCE. ALL DISTURBED AREAS ARE TO BE LEFT WITH A SCARIFIED SURFACE AT ALL TIMES TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH KEYING OF TOPSOIL.

FOLLOWING COMPLETION OF WORKS AND STABILISATION OF ALL DISTURBED SURFACES, ALL MATERIALS AND CONTROL MEASURES ARE TO BE REMOVED FROM SITE AND TEMPORARY BASINS FILLED, COMPACTED AND STABILISED.

ALL SITE ACCESS TO BE ACHIEVED FROM DESIGNATED SITE ACCESS. SITE ACCESS TO BE PROTECTED BY THE INSTALLATION OF AN APPROVED SHAKER RAMP. SHAKER RAMP TO BE REGULARLY MAINTAINED TO ENSURE EFFECTIVENESS.

UPON COMPLETION OF FINAL EARTHWORKS OR AFTER WRITTEN DIRECTION OF COUNCIL, IMMEDIATE SILT CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED. EROSION PROOF WITHIN 14 DAYS. ALL DISTURBED OVER ALL STORMWATER, POWER, TELEPHONE, GAS AND SEWER LINES NOT WITHIN STREETS IS TO BE SPRAY GRASSED AS SOON AS POSSIBLE BUT NO LATER THAN WITHIN 14

NO MORE THAN 150m OF TRENCH IS TO BE OPEN AT ANY ONE TIME. ALL TEMPORARY EARTH BERMS, DIVERSION AND SEDIMENT BASIN EMBANKMENTS ARE TO BE TRACK ROLLED, SEEDED OR MULCHED OR SPRAYED WITH BITUMEN AS SOON AS THEY HAVE BEEN FORMED.

ALL FILLS ARE TO BE LEFT WITH A WINDROW AT LEAST 20cm HIGH AT THE TOP OF THE SLOPE AT THE END OF EACH DAY'S EARTHWORKS AMD ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO "SEAL" THE EARTHWORKS.

STABILISATION OF ALL CUT AND FILL SLOPES SHALL BE COMMENCED WITHIN 14 DAYS OF COMPLETION OF FORMATION.

THE CONTRACTOR SHALL MAINTAIN AND PRODUCE ON REQUEST A LOGBOOK ON SITE DETAILING THE FOLLOWING:-

RECORDS OF ALL RAINFALL
DAILY CONDITION OF ALL EROSION AND SEDIMENT CONTROL MEASURES
ANY APPLICATION OF FLOCCULATION AGENTS TO BASINS
VOLUMES OF WATER DISCHARGED FROM BASINS
METHOD OF DISPOSAL OF WATER FROM BASINS
ANY ADDITIONAL REMEDIAL WORKS REQUIRED.

THE ORIGINAL LOGBOOK SHALL BE ISSUED TO THE PROJECT MANAGER ON COMPLETION OF THE WORKS. SEDIMENT CONTROL MEASURES TO BE MONITORED ONCE A WEEK AND AFTER EVERY STORM EVENT.

STOCKPILES TO BE MAX 2 METRE HIGH WITH SEDIMENT FENCING TO LOW SIDE LOCATED CLEAR OF WATERCOURSES

ALL STORMWATER PITS TO BE BLOCKED DURING CONSTRUCTION UNTIL SITE STABILISED.

DURING CONSTRUCTION WORKS ANY WORK AND STORAGE AREAS WHERE SPILLAGE MAY OCCUR DURING CONSTRUCTION WORKS ANY WORK AND STORAGE AREAS WHERE SPILLAGE MAY OCCUR MUST BE BUNDED. THE SIZE OF THE AREA TO BE BUNDED AND HEIGHT OF THE BUND WALLS MUST BE CALCULATED AS BEING EQUAL TO 110% OF THE TOTAL VOLUME STORED OR EQUAL TO THE LARGEST STORAGE CONTAINER, WHICH EVER IS GREATER. ALL PIPE WORK EXTENDING FROM THE BUNDED AREA MUST BE DIRECTED OVER THE BUND WALL AND HOSE COUPLINGS MUST BE PLACED SUCH THAT LEAKS AND SPILLAGE'S ARE CONTAINED. THE AREAS MUST BE GRADED TO A PIT/SUMP TO FACILITATE EMPTYING.

ANY IMPORTED FILL USED MUST BE VALIDATED & SUITABLE & FREE OF SALINE & CONTAMINATION

WARNING BEWARE OF UNDERGROUND SERVICES

ne locations of underground services are approximate only an their exact position should be proven on site. No guarantee is given that all existing services are shown

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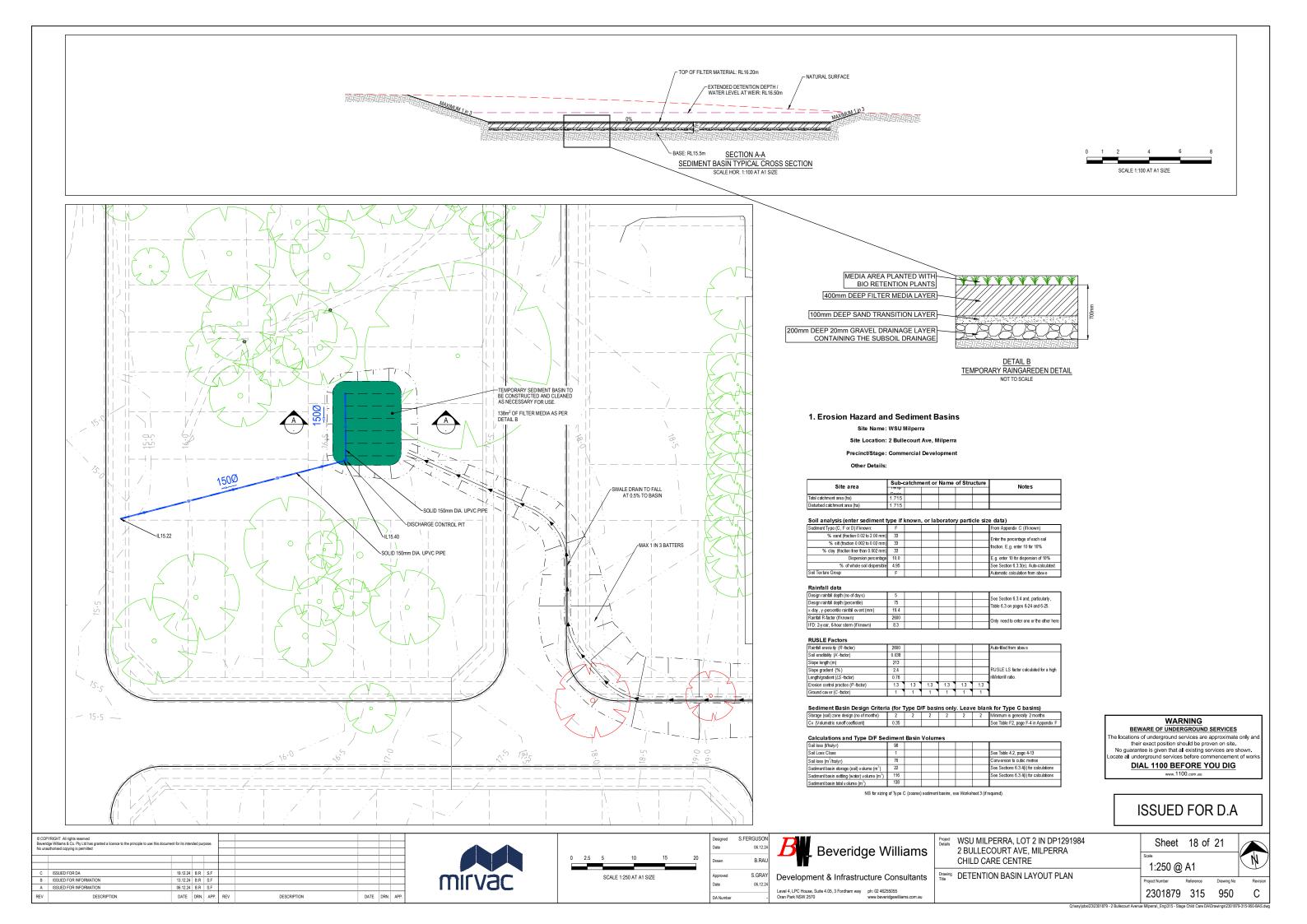
Project Details WSU MILPERRA, LOT 2 IN DP1291984 2 BULLECOURT AVE, MILPERRA CHILD CARE CENTRE

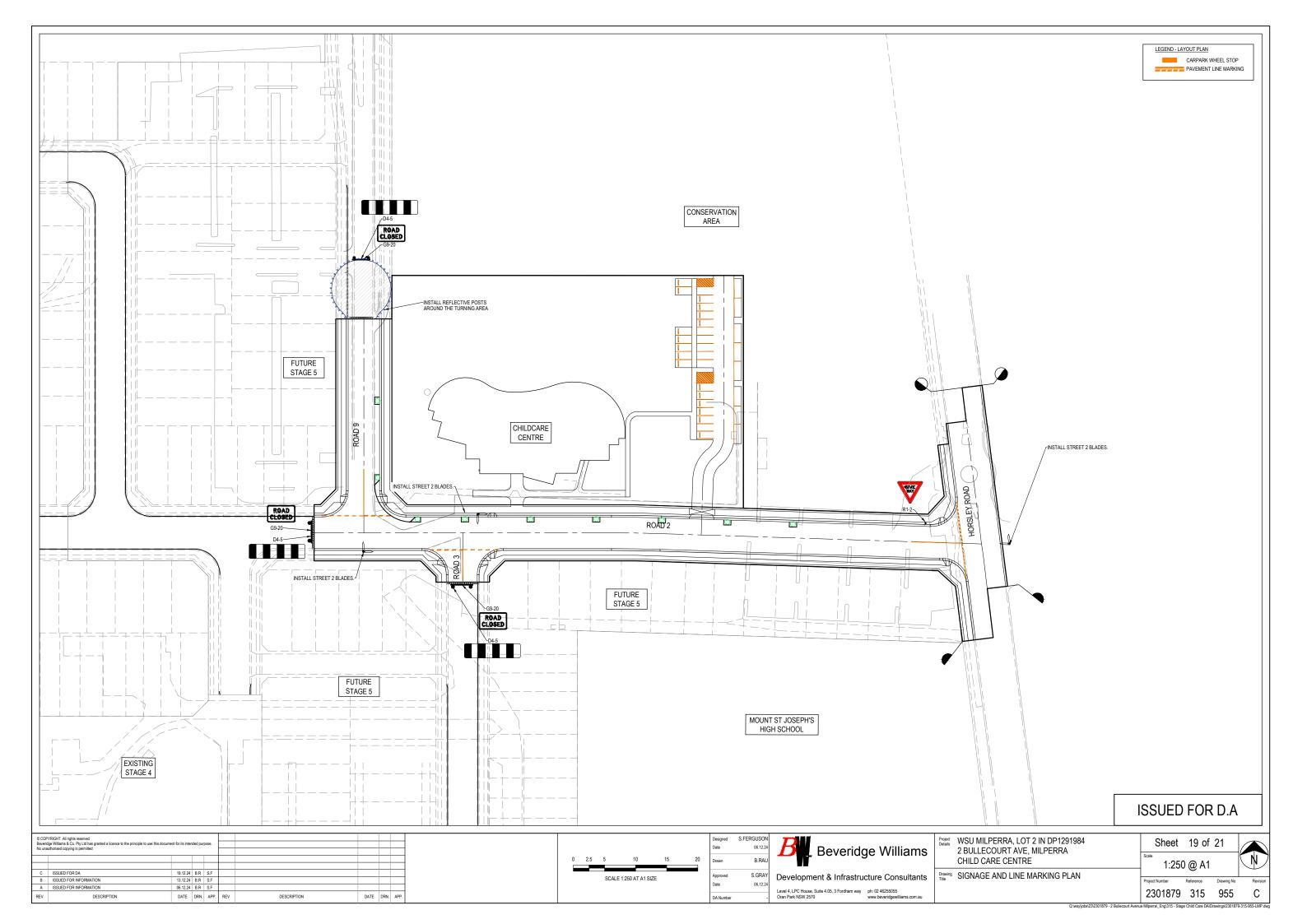
Drawing SOIL AND WATER MANAGEMENT PLAN DETAILS AND NOTES

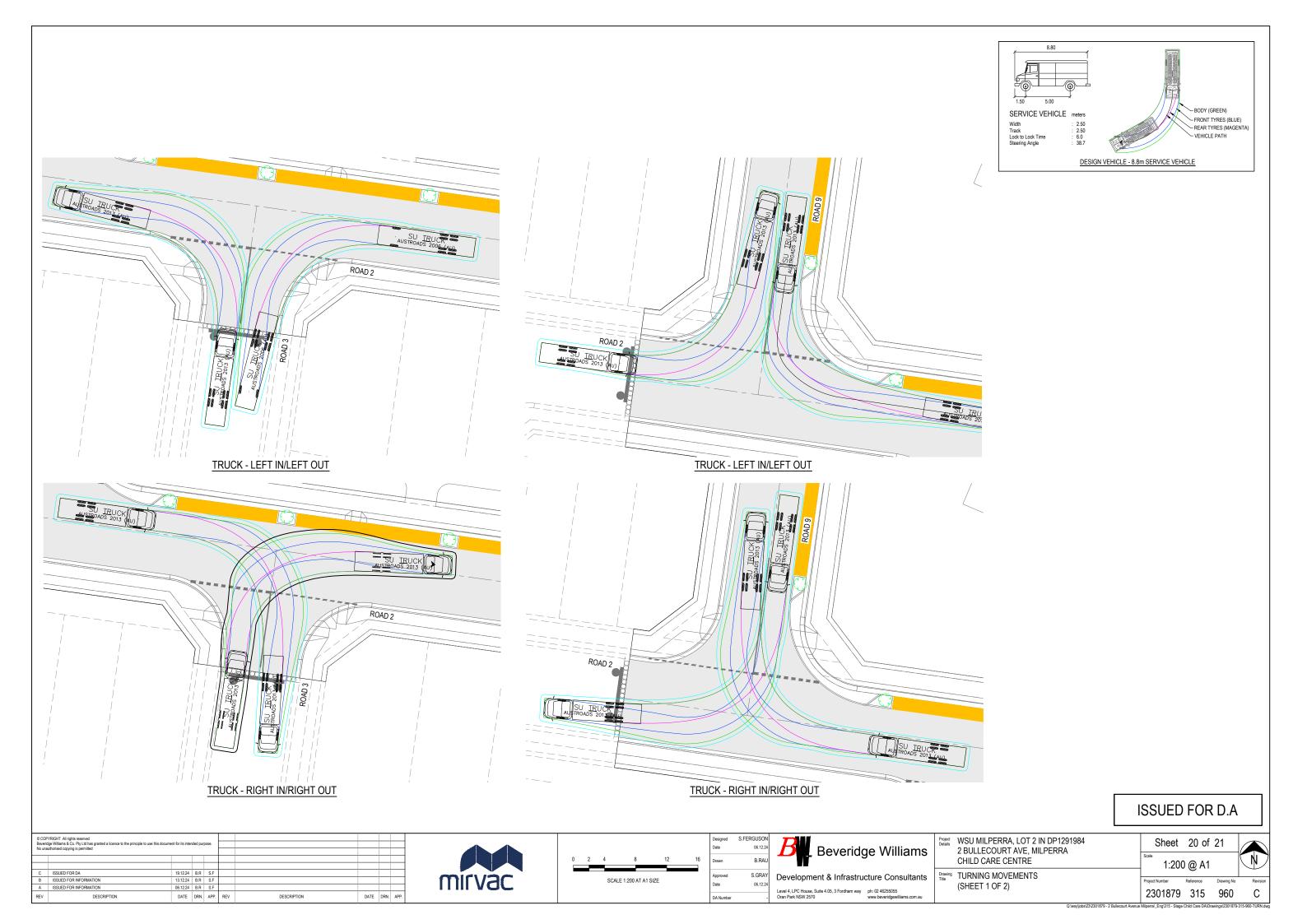
Sheet 17 of 21 NOT TO SCALE

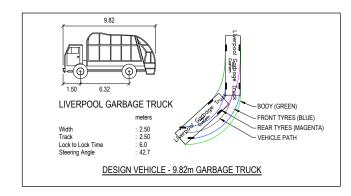
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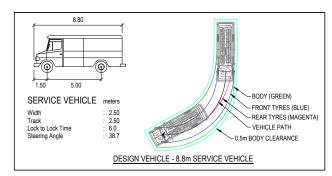
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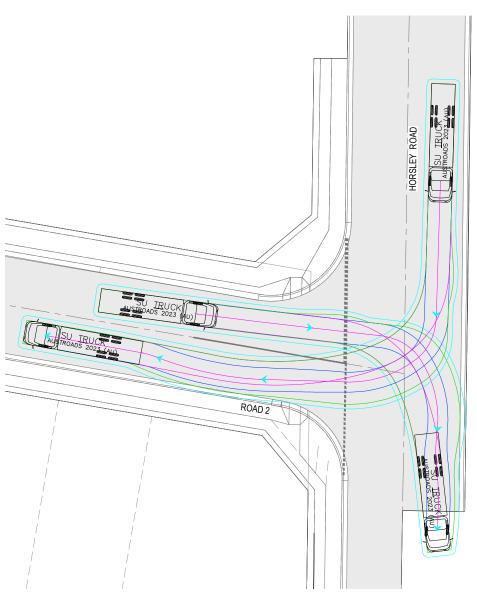


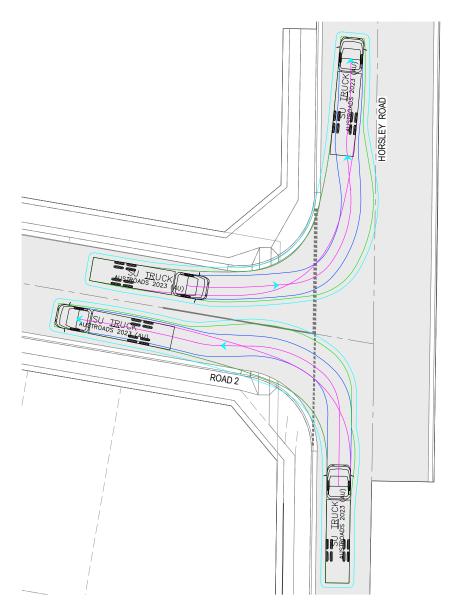


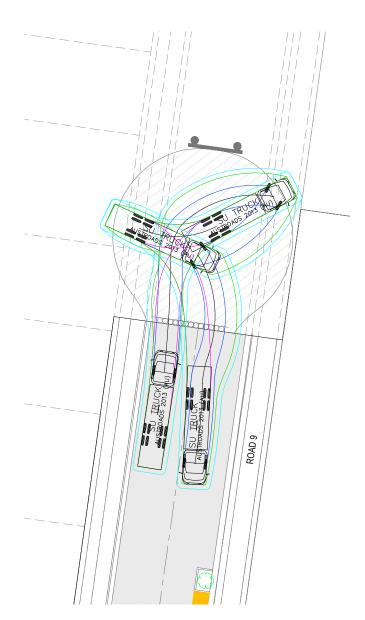












TRUCK - RIGHT IN/RIGHT OUT

TRUCK - LEFT IN/LEFT OUT

TRUCK - TEMPORARY TURNING HEAD

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