

***PROPOSED CIVIL WORKS
ST. MARY'S PRESCHOOL
FARRER ROAD
CHARLES STURT UNIVERSITY NSW 2678
REF: 230728***

FOR: COLLIERS INTERNATIONAL

CIVIL DRAWINGS

DRAWING SCHEDULE							
GENERAL		LAYOUT AND LEVELS		STORMWATER AND SEWER		OTHERS	
SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
GENERAL		PLANS		PLANS		PLANS	
A0000	COVER SHEET	B1001	LAYOUT PLAN 1/3	B2001	STORMWATER AND SEWER PLAN 1/2	TP001	TURNING PATHS – SITE ACCESS
A0001	DRAWING SCHEDULE	B1002	LAYOUT PLAN 2/3	B2002	STORMWATER AND SEWER PLAN 2/2	TP002	TURNING PATHS – GARBAGE TRUCK
A0002	OVERALL SITE PLAN	B1003	LAYOUT PLAN 3/3	B2101	STORMWATER PIT SCHEDULE	TP003	TURNING PATHS – FIRE APPLIANCE
		B1101	ACCESS DRIVEWAY LAYOUT PLAN	B2201	ROOF DRAINAGE PLAN	SUB01	OVERALL PROPOSED SUBDIVISION LAYOUT
		B1102	LONG SECTION – ENTRANCE DWY LEFT			SUB02	PROPOSED SUBDIVISION LOT 1 DETAILED PLAN
		B1103	LONG SECTION – ENTRANCE DWY RIGHT				
		B1201	DEPTH CONTOUR PLAN 1/2				
		B1202	DEPTH CONTOUR PLAN 2/2				
		B1301	CARPARK LAYOUT PLAN				
		B1401	PAVEMENT PLAN				
						DETAILS	
						DE1001	PAVEMENT DETAILS
						DE2001	STORMWATER DETAILS 1/5
						DE2002	STORMWATER DETAILS 2/5
						DE2003	STORMWATER DETAILS 3/5
						DE2004	STORMWATER DETAILS 4/5
						DE2005	STORMWATER DETAILS 5/5
						DE3001	RETAINING WALL DETAILS
						DE4001	SEDIMENT AND EROSION CONTROL DETAILS



UNDER GROUND SERVICES ARE APPROXIMATE ONLY. CONTACT RELEVANT AUTHORITY PRIOR TO ANY EXCAVATION OR CONSTRUCTION.

NOT FOR CONSTRUCTION

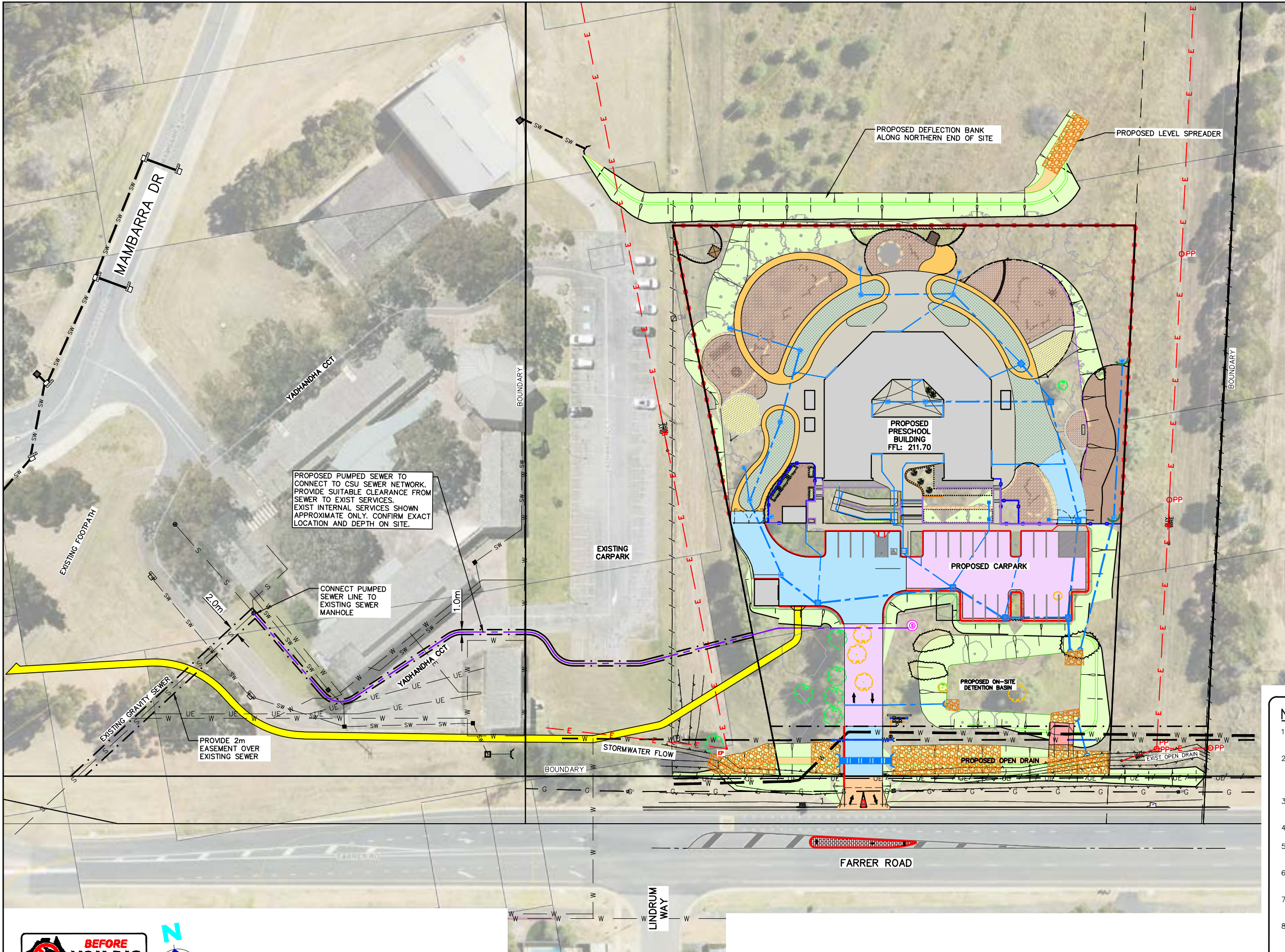
P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES – RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



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Project: PROPOSED CIVIL WORKS ST. MARY'S RAINBOW PRESCHOOL FARRER ROAD CHARLES STURT UNIVERSITY NSW 2678		Sheet Title: DRAWING SCHEDULE		Project Number: 230728	
		Client: COLLIERS INTERNATIONAL	Checked:		
		Scale: N/A	Approved:	Sheet Number: A0001	Revision Number: P17
		Design: S.X	Drawn: N.T	Date: MAR 2024	

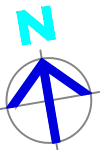


LEGEND	
MARK	ITEM
	PROPOSED BUILDING REFER TO ARCHITECTURAL DRAWINGS
	VEHICLE CROSSING AND DRIVEWAY TO BE CONSTRUCTED TO COUNCIL STANDARDS
	PROPOSED BITUMEN PAVING REFER TO DETAIL PV1
	PROPOSED CONCRETE CARPARK AND DRIVEWAY. REFER TO DETAIL PV2
	PROPOSED CONCRETE FOOTPATH AND BIKE TRACK. REFER TO DETAIL PV3
	PROPOSED BATTER
	PROPOSED ROCK RIP-RAP REFER RELEVANT DETAILS AND ROCK SIZING TABLE
	EXISTING ELECTRICITY LINE
	EXISTING UNDERGROUND ELECTRICITY LINE
	EXISTING WATERMAIN
	EXISTING HIGH PRESSURE GAS MAIN
	EXISTING FENCE LINE
	PROPOSED FENCE LINE
	PROPOSED SEWER PUMP STATION AS PER MANUFACTURER'S DETAILS
	PROPOSED PUMPED SEWER LINE
	PROPOSED STORMWATER PIT. REFER STORMWATER PLANS
	PROPOSED STORMWATER LINE. REFER STORMWATER PLAN
	EXISTING TREES TO REMAIN
	PROPOSED LANDSCAPE TREES. REFER LANDSCAPE DRAWINGS
	EXISTING TREE TO BE REMOVED
	EXISTING EASEMENT
	PROPOSED EASEMENT
	PROPOSED BOUNDARY LINE

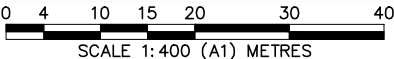
NOTES

- 1) CONTRACTOR TO CONFIRM DEPTH AND LOCATION OF EXISTING SERVICES PRIOR TO EXCAVATION AND ORDERING MATERIALS.
- 2) DO NOT SCALE OFF DRAWINGS. DRAWINGS ARE FOR ENGINEERING PURPOSES ONLY. REFER TO ARCHITECTURALS FOR SETOUT OF BUILDING AND RELEVANT REGULATORY PLANS FOR RELEVANT INFORMATION.
- 3) REFER TO LANDSCAPE DRAWINGS FOR DETAILS OF LANDSCAPING AND CROSS REFERENCING OF LEVELS.
- 4) ALL EARTHWORKS TO COMPLY WITH AS3798.
- 5) ALL DRAINAGE AND PLUMBING WORKS TO COMPLY WITH AS3500.
- 6) LEVELS ARE FINISHED PAVEMENT LEVELS AND NOT TOP OF KERB UNLESS NOTED OTHERWISE.
- 7) ALL PITS GREATER THAN 900mm DEEP ARE TO BE MINIMUM 900x900 CONCRETE PITS.
- 8) OVERLAND ESCAPE FLOW PATHS TO BE MAINTAINED FOR THE LIFE OF THE DEVELOPMENT. OBSTRUCTIONS ARE NOT TO BE PLACED IN THE OVERLAND ESCAPE FLOW PATH. MINIMUM 150mm TO BE PROVIDED FROM FLOOR LEVELS TO OVERLAND FLOW ESCAPE BREAK-OUT POINTS.

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Project:
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CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: OVERALL SITE PLAN

Client: COLLIERS INTERNATIONAL

Scale: 1:400 (A1) 1:800 (A3)

Design: S.X

Drawn: N.T

Date: MAR 2024

Checked:

Approved:

Project Number:

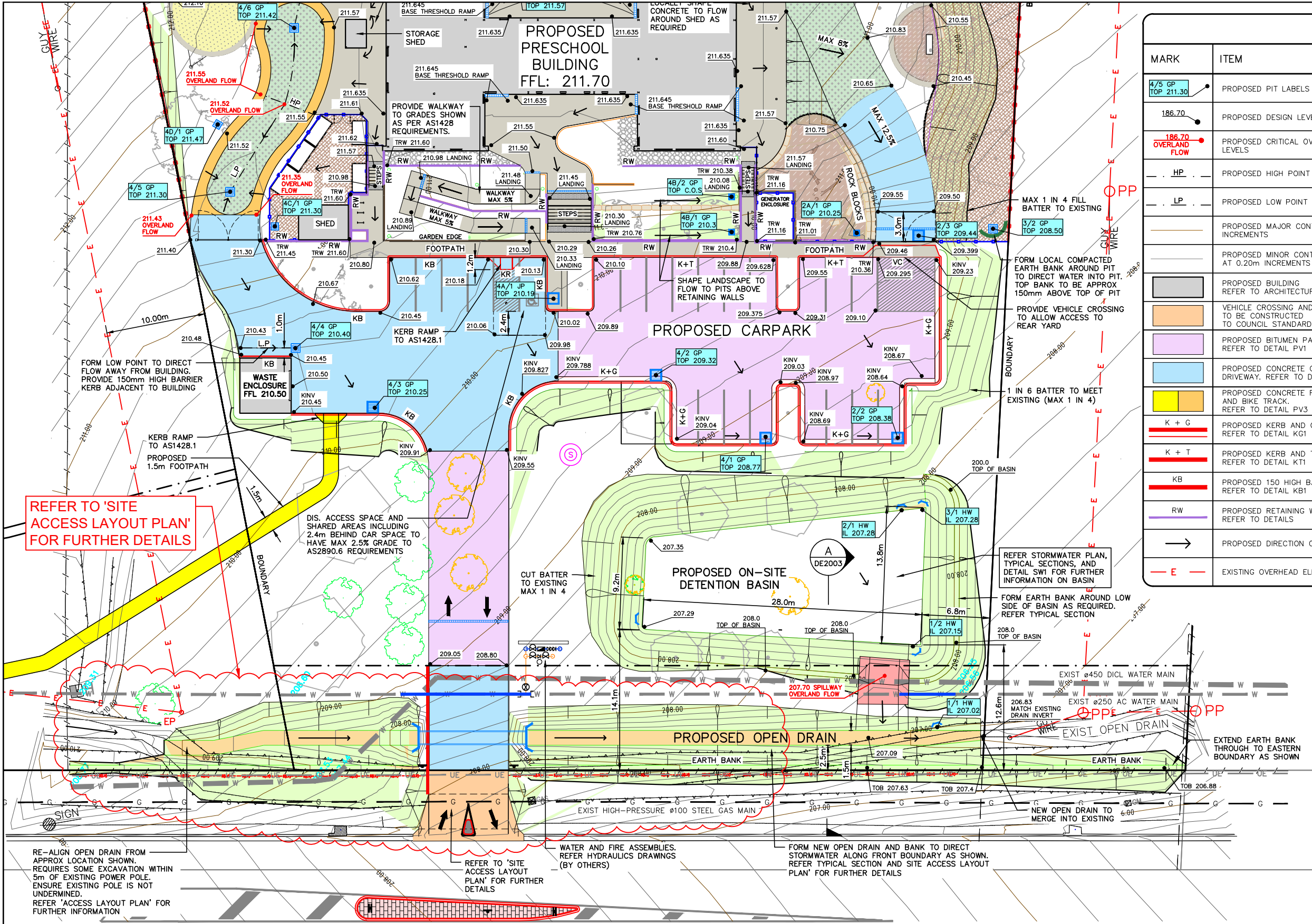
230728

Sheet Number:

A0002

Revision Number:

P17



LEGEND			
MARK	ITEM	MARK	ITEM
4/5 GP TOP 211.30	PROPOSED PIT LABELS	— UE —	EXISTING UNDERGROUND ELECTRICITY LINE
186.70	PROPOSED DESIGN LEVELS	— W —	EXISTING WATERMAIN
186.70 OVERLAND FLOW	PROPOSED CRITICAL OVERLAND FLOW LEVELS	— G —	EXISTING HIGH PRESSURE GAS MAIN
HP	PROPOSED HIGH POINT	— / — / —	EXISTING FENCE LINE
LP	PROPOSED LOW POINT	— — — —	PROPOSED FENCE LINE
	PROPOSED MAJOR CONTOURS AT 1.0m INCREMENTS	(S)	PROPOSED SEWER PUMP STATION AS PER MANUFACTURER'S DETAILS
	PROPOSED MINOR CONTOURS AT 0.20m INCREMENTS	OR	PROPOSED STORMWATER PIT. REFER STORMWATER PLANS
	PROPOSED BUILDING REFER TO ARCHITECTURAL DRAWINGS		PROPOSED STORMWATER STRIP DRAIN REFER TO DETAIL AC
	VEHICLE CROSSING AND DRIVEWAY TO BE CONSTRUCTED TO COUNCIL STANDARDS		PROPOSED STORMWATER HEADWALL REFER TO DETAIL H01
	PROPOSED BITUMEN PAVING REFER TO DETAIL PV1		PROPOSED CONCRETE SPILLWAY REFER DETAIL SW1
	PROPOSED CONCRETE CARPARK AND DRIVEWAY. REFER TO DETAIL PV2		PROPOSED OPEN DRAIN
	PROPOSED CONCRETE FOOTPATH AND BIKE TRACK. REFER TO DETAIL PV3		PROPOSED BATTER
K + G	PROPOSED KERB AND GUTTER REFER TO DETAIL KG1		EXISTING TREES TO REMAIN
K + T	PROPOSED KERB AND TOE REFER TO DETAIL KT1		PROPOSED LANDSCAPE TREES. REFER LANDSCAPE DRAWINGS
KB	PROPOSED 150 HIGH BARRIER KERB REFER TO DETAIL KB1		EXISTING TREE TO BE REMOVED
RW	PROPOSED RETAINING WALL REFER TO DETAILS	— — — —	EXISTING EASEMENT
→	PROPOSED DIRECTION OF FALL	- - - - -	PROPOSED EASEMENT
E	EXISTING OVERHEAD ELECTRICITY LINE	— — — —	PROPOSED BOUNDARY LINE

REFER TO 'SITE ACCESS LAYOUT PLAN' FOR FURTHER DETAILS

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 - ALL DRAINAGE AND PLUMBING WORKS TO COMPLY WITH AS3500.
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P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
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CONSULTING ENGINEERS

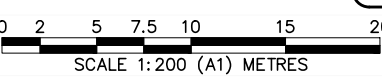
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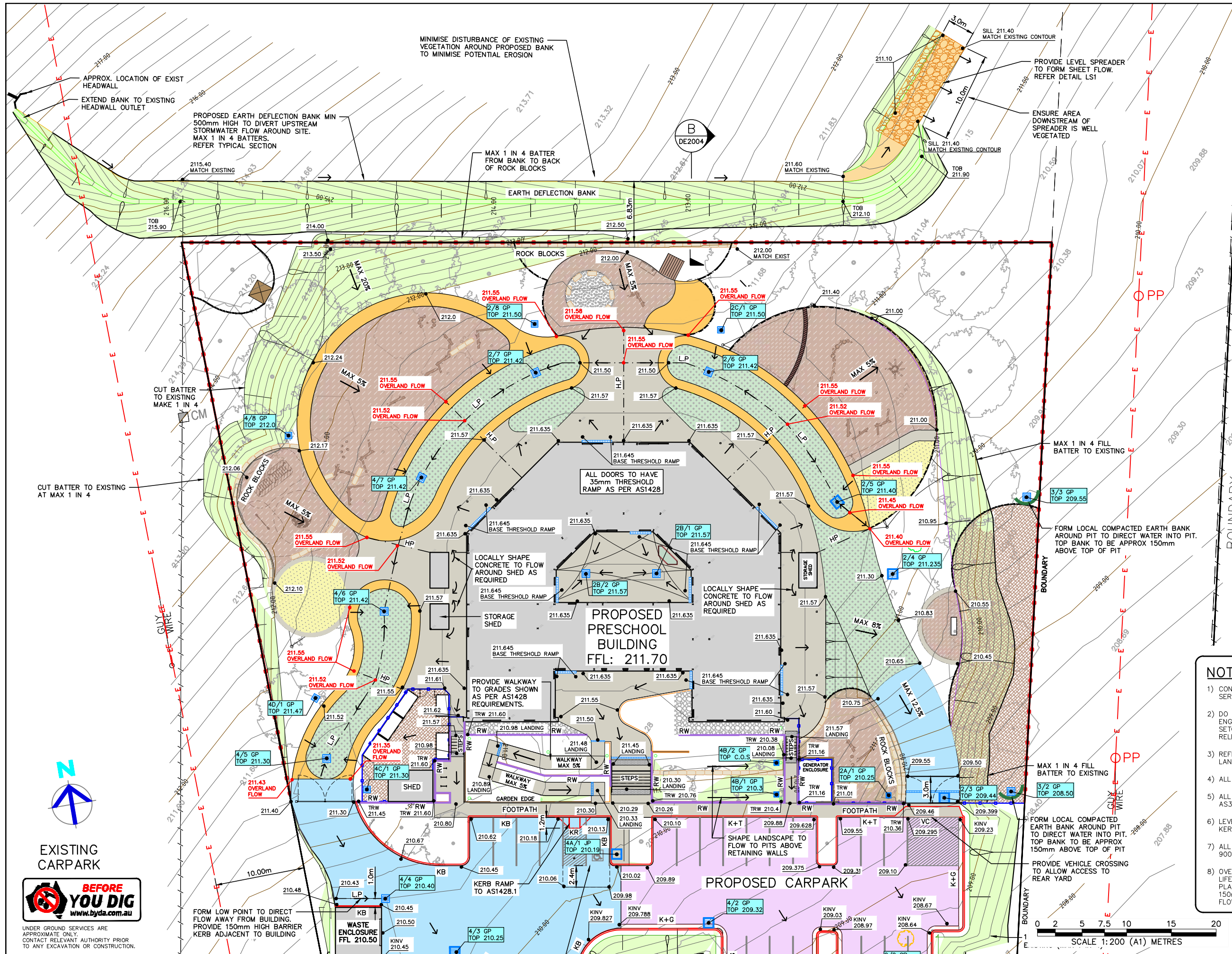
Sheet Title: **LAYOUT PLAN 1/3**
Client: **COLLIERS INTERNATIONAL**
Scale: **1:200 (A1) 1:400 (A3)**
Design: **S.X** Drawn: **N.T** Date: **MAR 2024**

Project Number:
230728
Sheet Number:
B1001 Revision Number:
P17

Checked:
Approved:



NOT FOR CONSTRUCTION



LEGEND	
MARK	ITEM
4/5 GP TOP 211.30	PROPOSED PIT LABELS
186.70	PROPOSED DESIGN LEVELS
186.70 OVERLAND FLOW	PROPOSED CRITICAL OVERLAND FLOW LEVELS
HP	PROPOSED HIGH POINT
LP	PROPOSED LOW POINT
	PROPOSED MAJOR CONTOURS AT 1.0m INCREMENTS
	PROPOSED MINOR CONTOURS AT 0.20m INCREMENTS
	PROPOSED BUILDING REFER TO ARCHITECTURAL DRAWINGS
	PROPOSED BITUMEN PAVING REFER TO DETAIL PV1
	PROPOSED CONCRETE CARPARK AND DRIVEWAY. REFER TO DETAIL PV2
	PROPOSED CONCRETE FOOTPATH AND BIKE TRACK. REFER TO DETAIL PV3
	PROPOSED BATTER
K + G	PROPOSED KERB AND GUTTER REFER TO DETAIL KG1
K + T	PROPOSED KERB AND TOE REFER TO DETAIL KT1
KB	PROPOSED 150 HIGH BARRIER KERB REFER TO DETAIL KB1
RW	PROPOSED RETAINING WALL REFER TO DETAILS
	PROPOSED DIRECTION OF FALL
OR	PROPOSED STORMWATER PIT. REFER STORMWATER PLANS
	PROPOSED STORMWATER STRIP DRAIN REFER TO DETAIL AC
	PROPOSED CONCRETE SPILLWAY REFER DETAIL SW1
	PROPOSED LANDSCAPE TREES. REFER LANDSCAPE DRAWINGS
	EXISTING TREE TO BE REMOVED
	EXISTING EASEMENT
	PROPOSED BOUNDARY LINE

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P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY

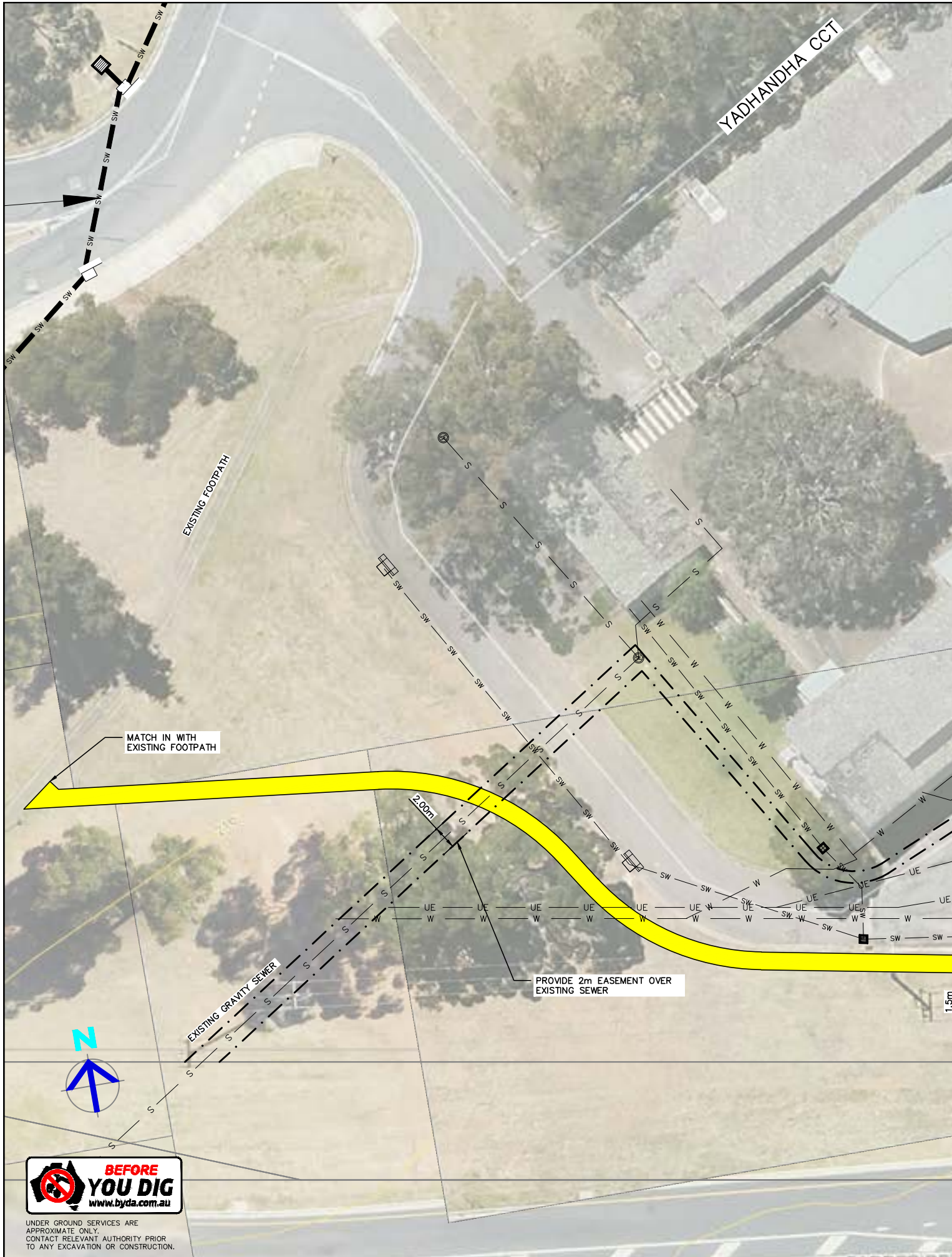


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Project:
PROPOSED CIVIL WORKS
ST. MARY'S RAINBOW PRESCHOOL
FARRER ROAD
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: **LAYOUT PLAN 2/3**
Client: **COLLIERS INTERNATIONAL**
Scale: **1:200 (A1) 1:400 (A3)**
Design: **S.X** Drawn: **N.T** Date: **MAR 2024**

Project Number:
230728
Checked:
Approved:
Sheet Number:
B1002 Revision Number:
P17



LEGEND			
MARK	ITEM	MARK	ITEM
	PROPOSED PIT LABELS		PROPOSED DIRECTION OF FALL
	PROPOSED DESIGN LEVELS		PROPOSED KERB AND GUTTER REFER TO DETAIL KG1
	PROPOSED CRITICAL OVERLAND FLOW LEVELS		PROPOSED 150 HIGH BARRIER KERB REFER TO DETAIL KB1
	PROPOSED MAJOR CONTOURS AT 1.0m INCREMENTS		PROPOSED STORMWATER PIT. REFER STORMWATER PLANS
	PROPOSED MINOR CONTOURS AT 0.20m INCREMENTS		PROPOSED LANDSCAPE TREES. REFER LANDSCAPE DRAWINGS
	PROPOSED BUILDING REFER TO ARCHITECTURAL DRAWINGS		EXISTING TREE TO BE REMOVED
	PROPOSED CONCRETE CARPARK AND DRIVEWAY. REFER TO DETAIL PV2		EXISTING EASEMENT
	PROPOSED CONCRETE FOOTPATH AND BIKE TRACK. REFER TO DETAIL PV3		PROPOSED BOUNDARY LINE

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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
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Project:
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ST. MARY'S RAINBOW PRESCHOOL
FARRER ROAD
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: LAYOUT PLAN 3/3

Client: COLLIERS INTERNATIONAL

Scale: 1:200 (A1) 1:400 (A3)

Design: S.X

Drawn: N.T

Date: MAR 2024

Checked:

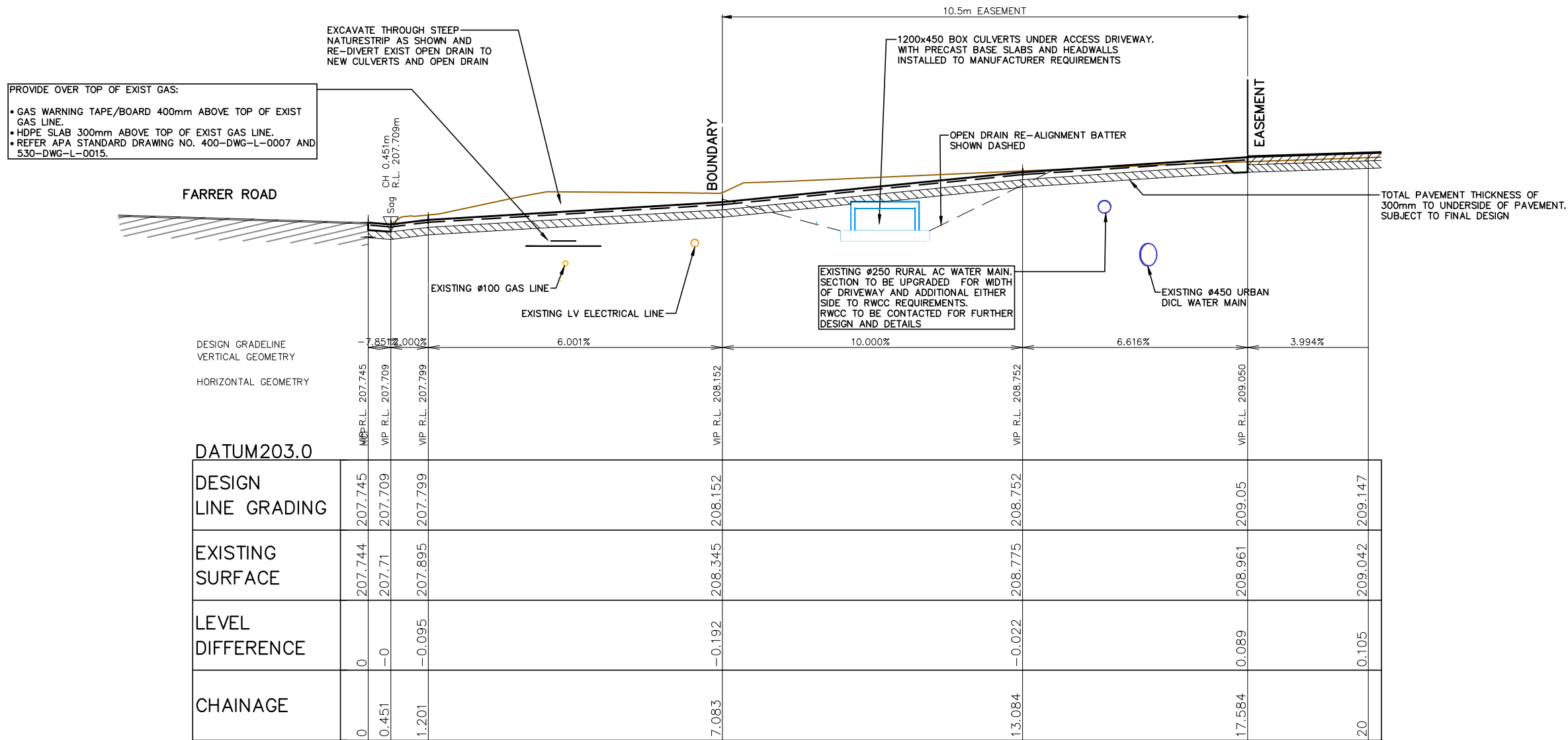
Approved:

Project Number:
230728

Sheet Number:
B1003

Revision Number:
P17

NOTE: ALL EXIST SERVICES SHOWN HAVE BEEN LOCATED USING VACUUM TRUCK POTHOLING TO CONFIRM EXACT LOCATIONS AND DEPTHS



LONGITUDINAL SECTION – CONTROL STRING – ENTRANCE DWY LEFT

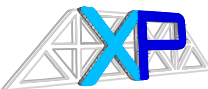
Horizontal scale 1:50
Vertical scale 1:50



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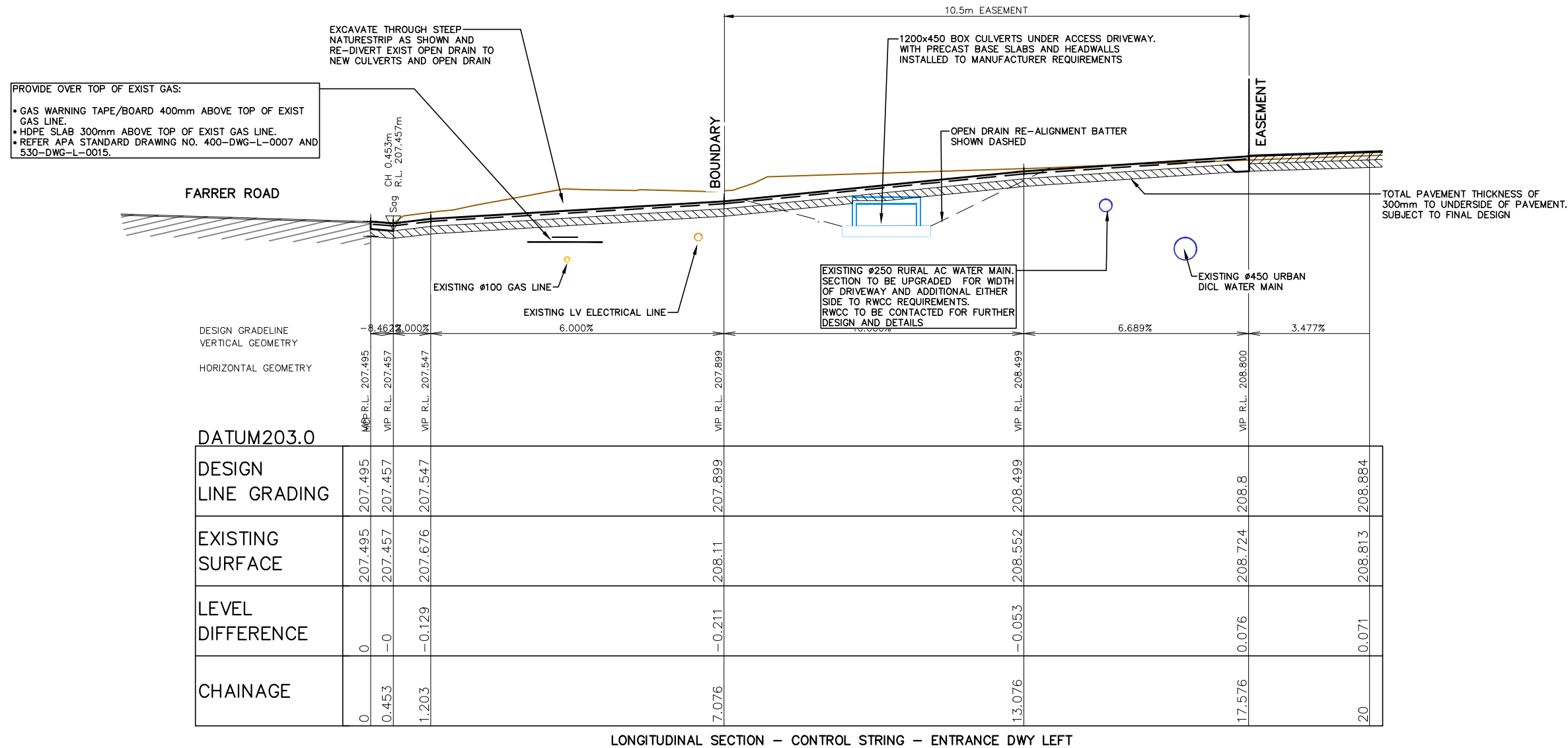
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Sheet Title: LONG SECTION – ENTRANCE DWY LEFT		
Client: COLLIERS INTERNATIONAL	Checked:	
Scale: AS SHOWN	Approved:	
Design: S.X	Drawn: N.T	Date: MAR 2024

Project Number:		230728
Sheet Number:	Revision Number:	
B1102	P17	

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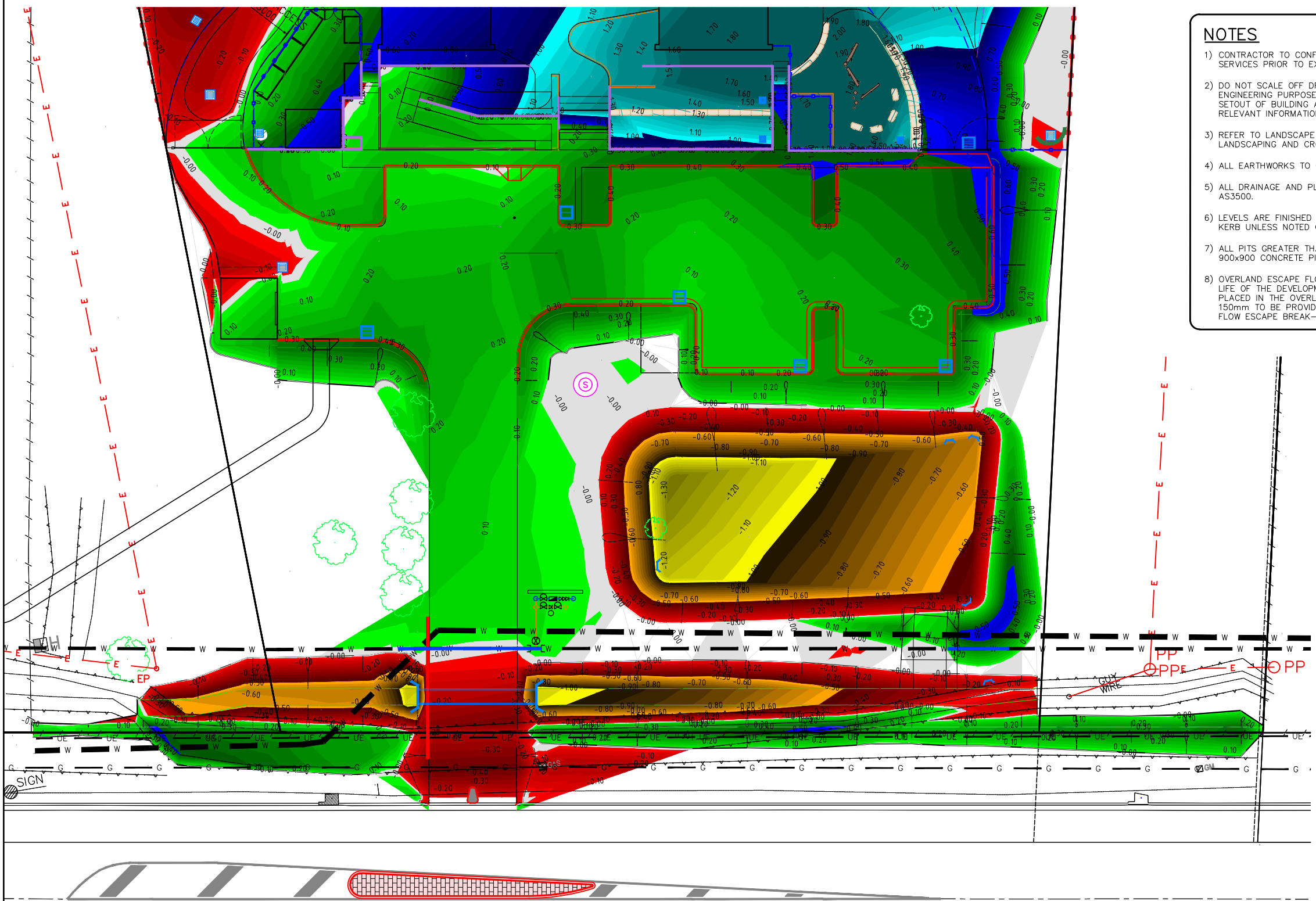
Project:
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CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: LONG SECTION – ENTRANCE DWY RIGHT
Client: COLLIERS INTERNATIONAL
Scale: AS SHOWN
Design: S.X
Drawn: N.T
Date: MAR 2024

Checked:

Approved:

Project Number:
230728
Sheet Number:
B1103
Revision Number:
P17



NOTES

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CUT AND FILL

LEVELS	COLOUR
+1.6	
1.5	
1.3 – 1.4	
1.2	
1.1	
1.0	
0.9	
0.8	
0.7	
0.6	
0.5	
0.4	
0.3	
0.2	
0.1	
0.0 (NOT CUT OR FILL)	
-0.1	
-0.2	
-0.3	
-0.4	
-0.5	
-0.6	
-0.7	
-0.8	
-0.9	
-1.0	
-1.1	
-1.2	

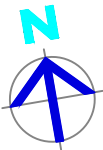
NOTE: DEPTH CONTOURS INDICATE DEPTH OF PROPOSED FINISHED SURFACE ABOVE EXISTING SURFACE AND DO NOT TAKE INTO ACCOUNT DEPTH OF PAVEMENTS OR SLABS



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P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES – RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY

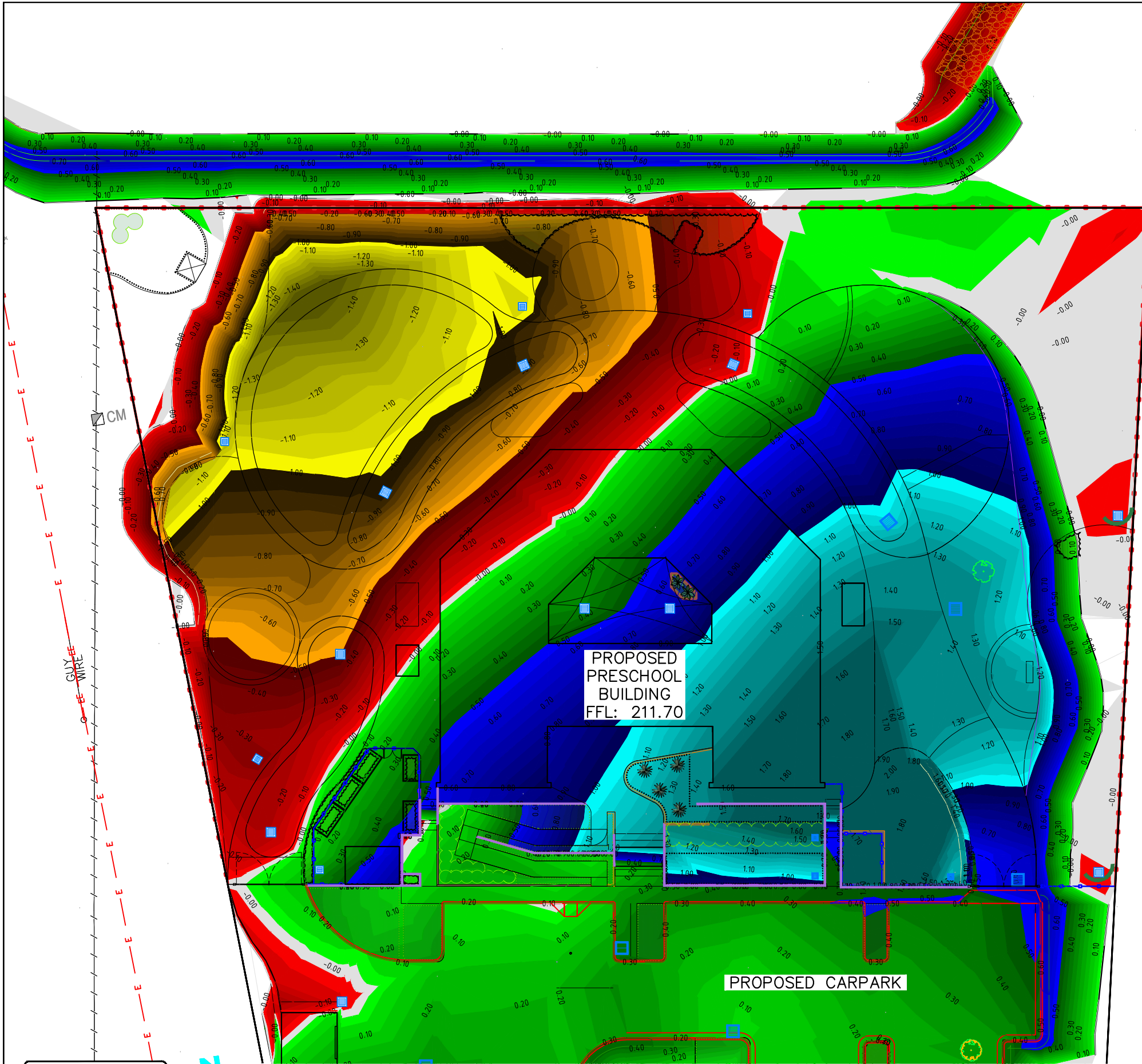


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A.C.N. 137 881 853

Project:
PROPOSED CIVIL WORKS
ST. MARY'S RAINBOW PRESCHOOL
FARRER ROAD
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: DEPTH CONTOUR PLAN 1/2		
Client: COLLIERS INTERNATIONAL	Checked:	
Scale: 1:200 (A1) 1:400 (A3)	Approved:	
Design: S.X	Drawn: N.T	Date: MAR 2024

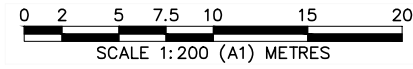
Project Number: 230728	
Sheet Number: B1201	Revision Number: P17



- NOTES**
- 1) CONTRACTOR TO CONFIRM DEPTH AND LOCATION OF EXISTING SERVICES PRIOR TO EXCAVATION AND ORDERING MATERIALS.
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 - 3) REFER TO LANDSCAPE DRAWINGS FOR DETAILS OF LANDSCAPING AND CROSS REFERENCING OF LEVELS.
 - 4) ALL EARTHWORKS TO COMPLY WITH AS3798.
 - 5) ALL DRAINAGE AND PLUMBING WORKS TO COMPLY WITH AS3500.
 - 6) LEVELS ARE FINISHED PAVEMENT LEVELS AND NOT TOP OF KERB UNLESS NOTED OTHERWISE.
 - 7) ALL PITS GREATER THAN 900mm DEEP ARE TO BE MINIMUM 900x900 CONCRETE PITS.
 - 8) OVERLAND ESCAPE FLOW PATHS TO BE MAINTAINED FOR THE LIFE OF THE DEVELOPMENT. OBSTRUCTIONS ARE NOT TO BE PLACED IN THE OVERLAND ESCAPE FLOW PATH. MINIMUM 150mm TO BE PROVIDED FROM FLOOR LEVELS TO OVERLAND FLOW ESCAPE BREAK-OUT POINTS.

CUT AND FILL	
LEVELS	COLOUR
+1.6	
1.5	
1.3 – 1.4	
1.2	
1.1	
1.0	
0.9	
0.8	
0.7	
0.6	
0.5	
0.4	
0.3	
0.2	
0.1	
0.0 (NOT CUT OR FILL)	
-0.1	
-0.2	
-0.3	
-0.4	
-0.5	
-0.6	
-0.7	
-0.8	
-0.9	
-1.0	
-1.1	
-1.2	

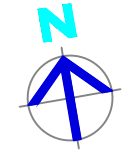
NOTE: DEPTH CONTOURS INDICATE DEPTH OF PROPOSED FINISHED SURFACE ABOVE EXISTING SURFACE AND DO NOT TAKE INTO ACCOUNT DEPTH OF PAVEMENTS OR SLABS



NOT FOR CONSTRUCTION



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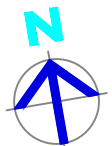
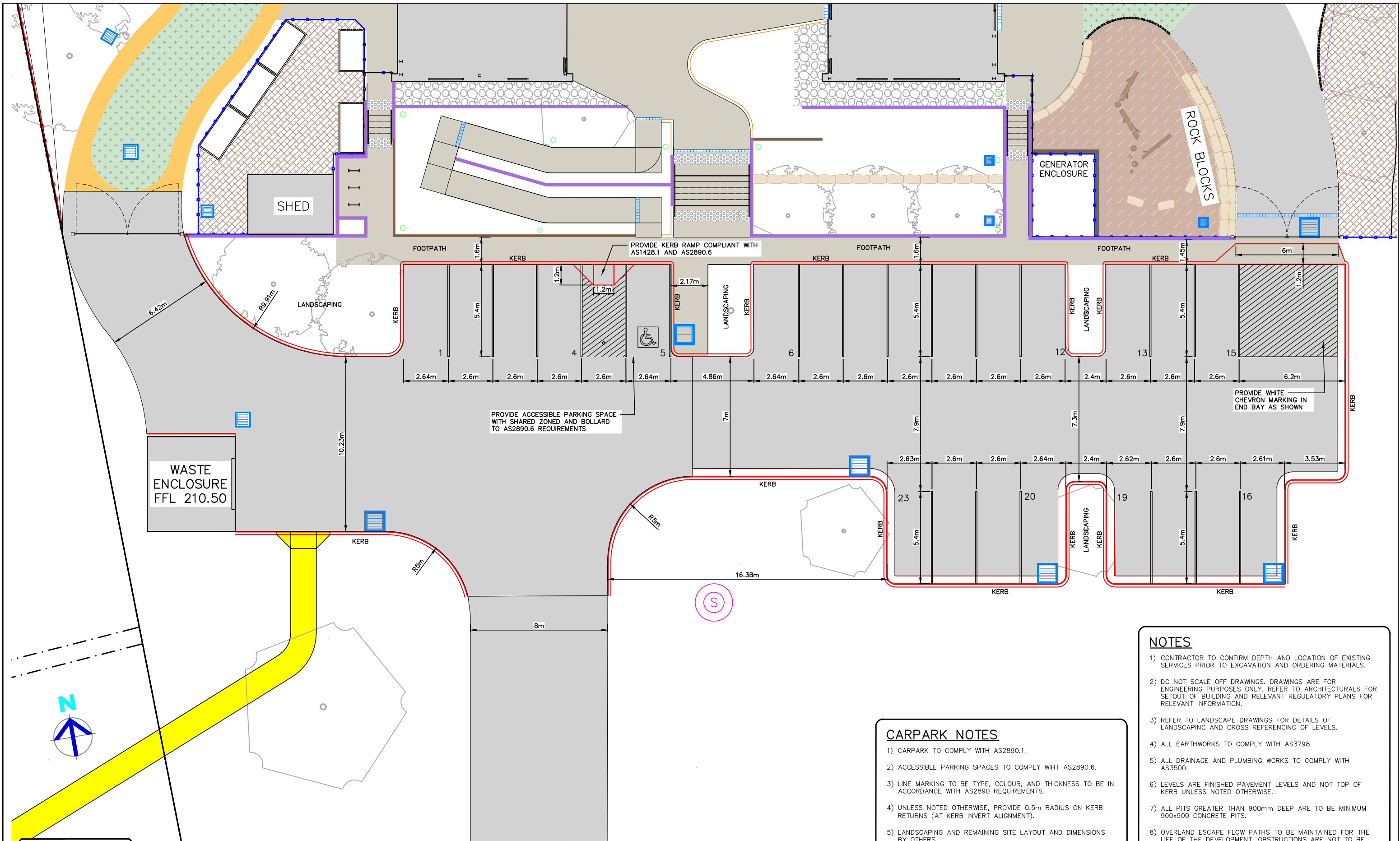
P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES – RE-ISSUED FOR TENDER	S.X
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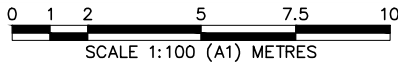
Sheet Title: DEPTH CONTOURS PLAN 2/2				Project Number:	
Client: COLLIERS INTERNATIONAL			Checked:		230728
Scale: 1:200 (A1) 1:400 (A3)			Approved:		
Design: S.X		Drawn: N.T		Date: MAR 2024	
				Sheet Number: B1202	
				Revision Number: P17	



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- CARPARK NOTES**
- 1) CARPARK TO COMPLY WITH AS2890.1.
 - 2) ACCESSIBLE PARKING SPACES TO COMPLY WITH AS2890.6.
 - 3) LINE MARKING TO BE TYPE, COLOUR, AND THICKNESS TO BE IN ACCORDANCE WITH AS2890 REQUIREMENTS.
 - 4) UNLESS NOTED OTHERWISE, PROVIDE 0.5m RADIUS ON KERB RETURNS (AT KERB INVERT ALIGNMENT).
 - 5) LANDSCAPING AND REMAINING SITE LAYOUT AND DIMENSIONS BY OTHERS.
 - 6) DIMENSIONS ARE TO KERB INVERT UNLESS NOTED OTHERWISE.

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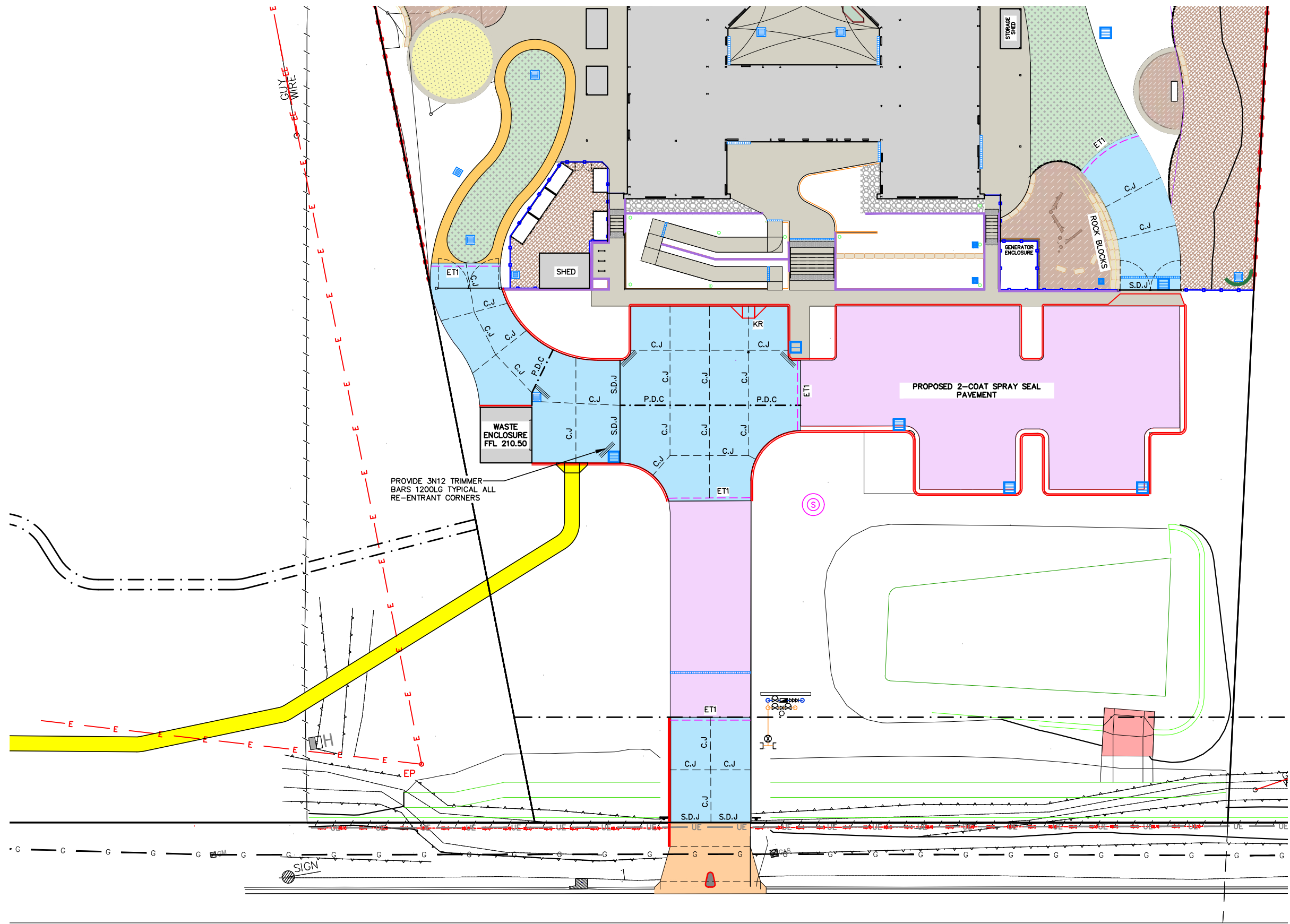
P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
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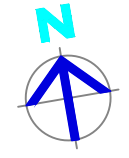
Project:
PROPOSED CIVIL WORKS
ST. MARY'S RAINBOW PRESCHOOL
FARRER ROAD
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: CARPARK LAYOUT PLAN		Project Number: 230728	
Client: COLLIERS INTERNATIONAL	Checked:	Sheet Number: B1301	Revision Number: P17
Scale: 1:100 (A1) 1:200 (A3)	Approved:		
Design: S.X	Drawn: N.T	Date: MAR 2024	

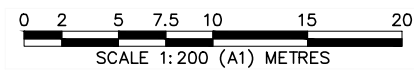


LEGEND	
MARK	ITEM
C.J	PROPOSED CONTROL JOINT REFER TO DETAIL C.J
S.D.J	PROPOSED SQUARE DOWEL JOINT REFER TO DETAIL S.D.J
S.D.J.E	PROPOSED SQUARE DOWEL JOINT INTO EXISTING REFER TO DETAIL S.D.J.E
P.D.C	PROPOSED PLATE DOWEL CRADLE REFER TO DETAIL P.D.C
ET1	300x300 EDGE THICKENING REFER TO DETAIL ET1
	3N12 TRIMMER BARS 1200LG TYPICAL ALL RE-ENTRANT CORNERS
	PROPOSED BUILDING REFER TO ARCHITECTURAL DRAWINGS
	VEHICLE CROSSING AND DRIVEWAY TO BE CONSTRUCTED TO COUNCIL STANDARDS
	PROPOSED BITUMEN PAVING REFER TO DETAIL PV1
	PROPOSED CONCRETE CARPARK AND DRIVEWAY. REFER TO DETAIL PV2
	PROPOSED CONCRETE FOOTPATH AND BIKE TRACK. REFER TO DETAIL PV3
	EXISTING FENCE LINE
	PROPOSED FENCE LINE
E	EXISTING ELECTRICITY LINE
(S)	PROPOSED SEWER PUMP STATION AS PER MANUFACTURER'S DETAILS
OR	PROPOSED STORMWATER PIT. REFER STORMWATER PLANS
	EXISTING EASEMENT
	PROPOSED EASEMENT
	PROPOSED BOUNDARY LINE

- NOTES**
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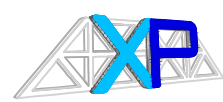


FARRER ROAD



NOT FOR CONSTRUCTION

P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
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P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
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XEROS PICCOLO
CONSULTING ENGINEERS

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Project:
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FARRER ROAD
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Sheet Title: **PAVEMENT PLAN**

Client: **COLLIERS INTERNATIONAL**

Scale: **1:200 (A1) 1:400 (A3)**

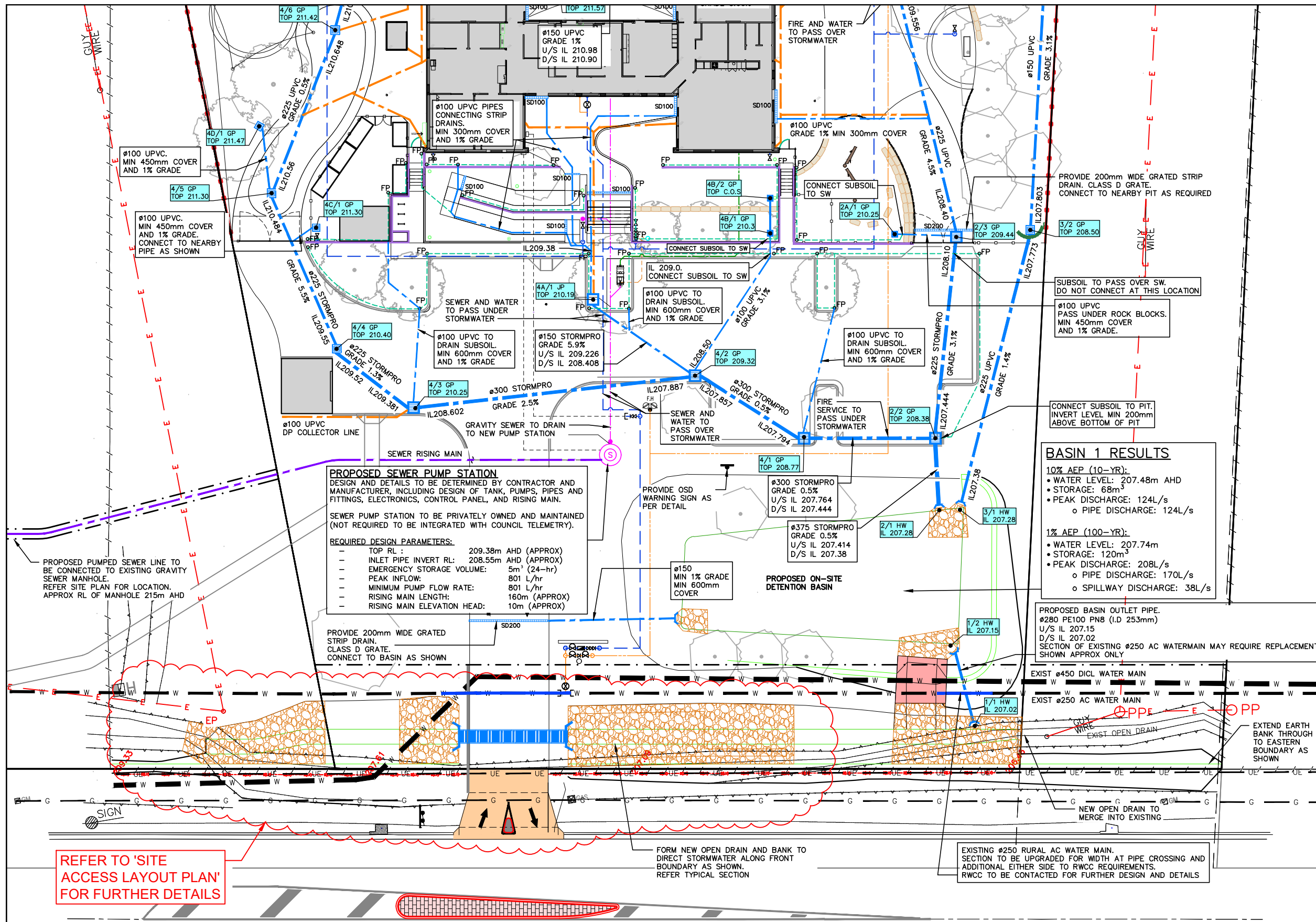
Design: **S.X** Drawn: **N.T** Date: **MAR 2024**

Checked:

Approved:

Project Number:
230728

Sheet Number:
B1401 Revision Number:
P17



LEGEND	
MARK	ITEM
4/5 GP TOP 211.30	PROPOSED PIT LABELS
OR	PROPOSED STORMWATER PIT. REFER TO DETAILS SWP
	PROPOSED STORMWATER HEADWALL REFER TO DETAIL H01
SD100	PROPOSED STORMWATER STRIP DRAIN SIZE AS INDICATED. REFER TO DETAIL AC
	PROPOSED STORMWATER LINE
	PROPOSED DOWNPIPE COLLECTOR LINE REFER ROOF DRAINAGE PLAN
FP	PROPOSED SUBSOIL DRAINAGE LINE AND FLUSH POINTS. REFER DETAILS
	PROPOSED ROCK RIP-RAP REFER RELEVANT DETAILS AND ROCK SIZING TABLE
	PROPOSED CONCRETE SPILLWAY REFER DETAIL SW1
(S)	PROPOSED SEWER PUMP STATION AS PER MANUFACTURER'S DETAILS
	PROPOSED INTERNAL GRAVITY SEWER LINE. REFER HYDRAULICS DRAWINGS
	PROPOSED PUMPED SEWER LINE. TO PUMP STATION MANUFACTURER REQUIREMENTS
	PROPOSED FIRE (ORANGE) AND POTABLE WATER (BLUE). REFER HYDRAULICS DRAWINGS (BY OTHERS)
RW	PROPOSED RETAINING WALL REFER TO DETAILS
	PROPOSED BUILDING REFER TO ARCHITECTURAL DRAWINGS
E	EXISTING ELECTRICITY LINE
UE	EXISTING UNDERGROUND ELECTRICITY LINE
W	EXISTING WATERMAIN
G	EXISTING GAS MAIN
	PROPOSED FENCE LINE
	PROPOSED LANDSCAPE TREES. REFER LANDSCAPE DRAWINGS
	EXISTING EASEMENT
	PROPOSED EASEMENT
	PROPOSED BOUNDARY LINE

BASIN 1 RESULTS
10% AEP (10-YR):
• WATER LEVEL: 207.48m AHD
• STORAGE: 68m³
• PEAK DISCHARGE: 124L/s
 o PIPE DISCHARGE: 124L/s
1% AEP (100-YR):
• WATER LEVEL: 207.74m
• STORAGE: 120m³
• PEAK DISCHARGE: 208L/s
 o PIPE DISCHARGE: 170L/s
 o SPILLWAY DISCHARGE: 38L/s

PROPOSED SEWER PUMP STATION
DESIGN AND DETAILS TO BE DETERMINED BY CONTRACTOR AND MANUFACTURER, INCLUDING DESIGN OF TANK, PUMPS, PIPES AND FITTINGS, ELECTRONICS, CONTROL PANEL, AND RISING MAIN.
SEWER PUMP STATION TO BE PRIVATELY OWNED AND MAINTAINED (NOT REQUIRED TO BE INTEGRATED WITH COUNCIL TELEMTRY).
REQUIRED DESIGN PARAMETERS:
- TOP RL: 209.38m AHD (APPROX)
- INLET PIPE INVERT RL: 208.55m AHD (APPROX)
- EMERGENCY STORAGE VOLUME: 5m³ (24-hr)
- PEAK INFLOW: 801 L/hr
- MINIMUM PUMP FLOW RATE: 801 L/hr
- RISING MAIN LENGTH: 160m (APPROX)
- RISING MAIN ELEVATION HEAD: 10m (APPROX)

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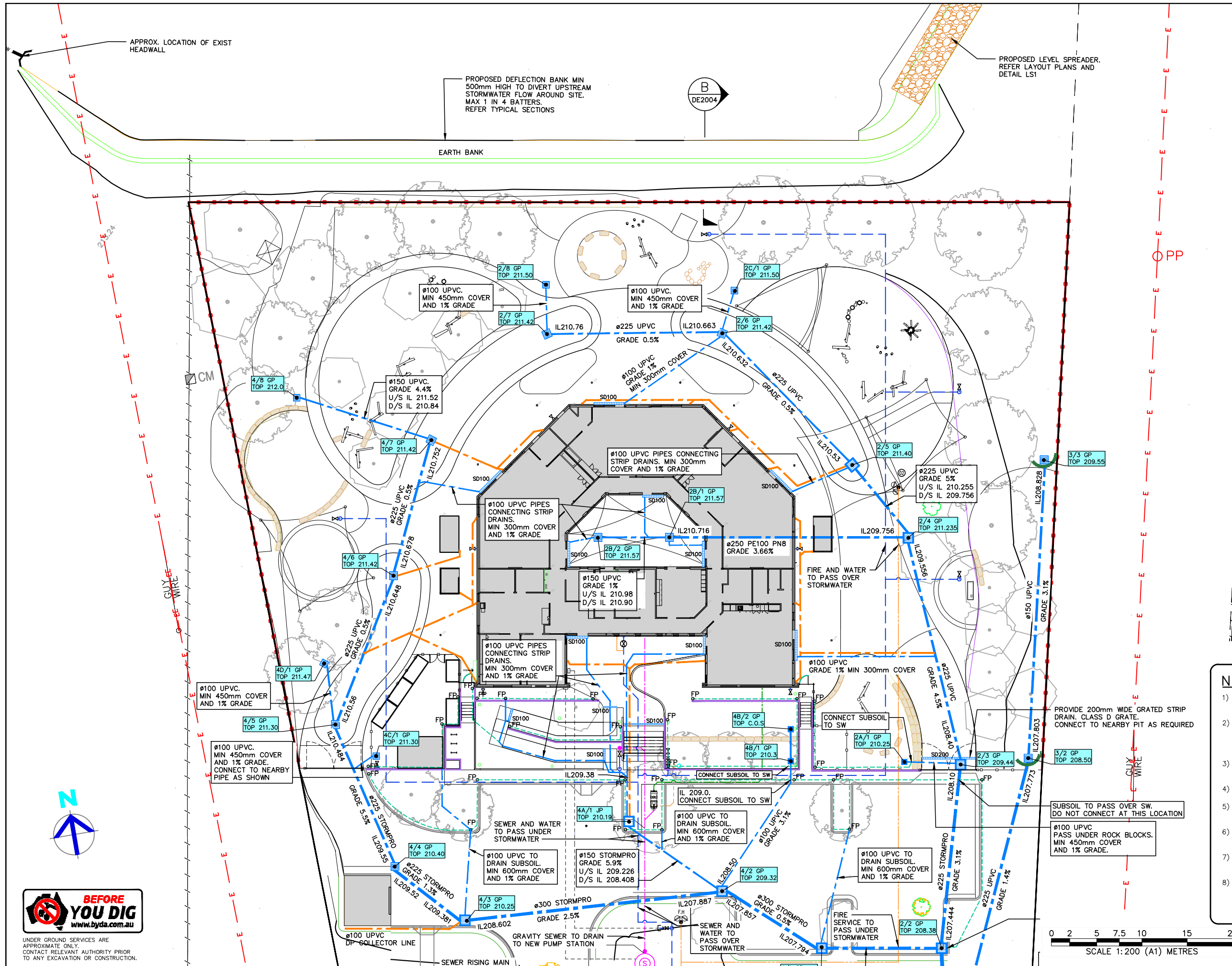
FARRER ROAD

0 2 5 7.5 10 15 20
SCALE 1:200 (A1) METRES

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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
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No.	DATE	DETAILS	BY

		5 BYE STREET WAGGA WAGGA, NSW, 2650 P (02) 6925 5855 F (02) 6925 5655 E WAGGA@XEROSPICCOLO.COM.AU A.C.N. 137 881 853
Project: PROPOSED CIVIL WORKS ST. MARY'S RAINBOW PRESCHOOL FARRER ROAD CHARLES STURT UNIVERSITY NSW 2678		Sheet Title: STORMWATER AND SEWER PLAN 1/2 Client: COLLIERS INTERNATIONAL Scale: 1:200 (A1) 1:400 (A3) Design: S.X Drawn: N.T Date: MAR 2024
Project Number: 230728		Checked: Approved: Sheet Number: B2001
Revision Number: P17		



LEGEND	
MARK	ITEM
4/5 GP TOP 211.30	PROPOSED PIT LABELS
OR	PROPOSED STORMWATER PIT. REFER TO DETAILS SWP
	PROPOSED STORMWATER HEADWALL. REFER TO DETAIL H01
SD100	PROPOSED STORMWATER STRIP DRAIN. SIZE AS INDICATED. REFER TO DETAIL AC
	PROPOSED STORMWATER LINE
	PROPOSED DOWNPIPE COLLECTOR LINE. REFER TO DETAIL AC
FP	PROPOSED SUBSOIL DRAINAGE LINE AND FLUSH POINTS. REFER DETAILS
	PROPOSED CONCRETE SPILLWAY. REFER DETAIL SW1
	PROPOSED ROCK RIP-RAP. REFER RELEVANT DETAILS AND ROCK SIZING TABLE
(S)	PROPOSED SEWER PUMP STATION. AS PER MANUFACTURER'S DETAILS
	PROPOSED INTERNAL GRAVITY SEWER LINE. REFER HYDRAULICS DRAWINGS
	PROPOSED PUMPED SEWER LINE. TO PUMP STATION MANUFACTURER REQUIREMENTS
	PROPOSED FIRE (ORANGE) AND POTABLE WATER (BLUE). REFER HYDRAULICS DRAWINGS (BY OTHERS)
	PROPOSED BUILDING. REFER TO ARCHITECTURAL DRAWINGS
RW	PROPOSED RETAINING WALL. REFER TO DETAILS
E	EXISTING ELECTRICITY LINE
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W	EXISTING WATERMAIN
G	EXISTING GAS MAIN
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	EXISTING EASEMENT
	PROPOSED EASEMENT
	PROPOSED BOUNDARY LINE

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Sheet Title: STORMWATER AND SEWER PLAN 2/2

Client: COLLIERS INTERNATIONAL

Scale: 1:200 (A1) 1:400 (A3)

Design: S.X

Drawn: N.T

Date: MAR 2024

Checked:

Approved:

Project Number:
230728

Sheet Number:
B2002

Revision Number:
P17

PIT SCHEDULE		
PIT No.	TYPE	NOTES
1/1 HW	PRECAST CONCRETE HEADWALL	—
1/2 HW	PRECAST CONCRETE HEADWALL	—
2/1 HW	PRECAST CONCRETE HEADWALL	—
2/2 GP	900 x 900 CONCRETE GRATED PIT	CLASS C STEEL GRATE
2/3 GP	900 x 900 CONCRETE GRATED PIT	CLASS C STEEL GRATE
2/4 GP	900 x 900 CONCRETE GRATED PIT	CLASS C STEEL GRATE
2/5 GP	900 x 900 CONCRETE GRATED PIT	CLASS C STEEL GRATE
2/6 GP	600 x 600 POLY GRATED PIT	CLASS C STEEL GRATE
2/7 GP	600 x 600 POLY GRATED PIT	CLASS C STEEL GRATE
2/8 GP	450 x 450 POLY GRATED PIT	CLASS B STEEL GRATE
2A/1 GP	300 x 300 POLY GRATED PIT	CLASS A STEEL GRATE
2B/1 GP	600 x 600 POLY GRATED PIT	CLASS A HEELSAFE STEEL GRATE
2B/2 GP	600 x 600 POLY GRATED PIT	CLASS A HEELSAFE STEEL GRATE
2C/1 GP	450 x 450 POLY GRATED PIT	CLASS B STEEL GRATE
3/1 HW	PRECAST CONCRETE HEADWALL	—
3/2 GP	600 x 600 POLY GRATED PIT	CLASS B STEEL GRATE
3/3 GP	600 x 600 POLY GRATED PIT	CLASS B STEEL GRATE
4/1 GP	900 x 900 CONCRETE GRATED PIT	CLASS C STEEL GRATE
4/2 GP	900 x 900 CONCRETE GRATED PIT	CLASS C STEEL GRATE
4/3 GP	900 x 900 CONCRETE GRATED PIT	CLASS C STEEL GRATE
4/4 GP	600 x 600 CONCRETE GRATED PIT	CLASS C STEEL GRATE
4/5 GP	600 x 600 POLY GRATED PIT	CLASS C STEEL GRATE
4/6 GP	600 x 600 POLY GRATED PIT	CLASS C STEEL GRATE
4/7 GP	600 x 600 POLY GRATED PIT	CLASS C STEEL GRATE
4/8 GP	450 x 450 POLY GRATED PIT	CLASS B STEEL GRATE
4A/1 JP	900 x 900 CONCRETE JUNCTION PIT	CONCRETE LID
4B/1 GP	300 x 300 POLY GRATED PIT	CLASS A STEEL GRATE
4B/2 GP	300 x 300 POLY GRATED PIT	CLASS A STEEL GRATE
4C/1 GP	450 x 450 POLY GRATED PIT	CLASS B STEEL GRATE
4D/1 GP	450 x 450 POLY GRATED PIT	CLASS B STEEL GRATE



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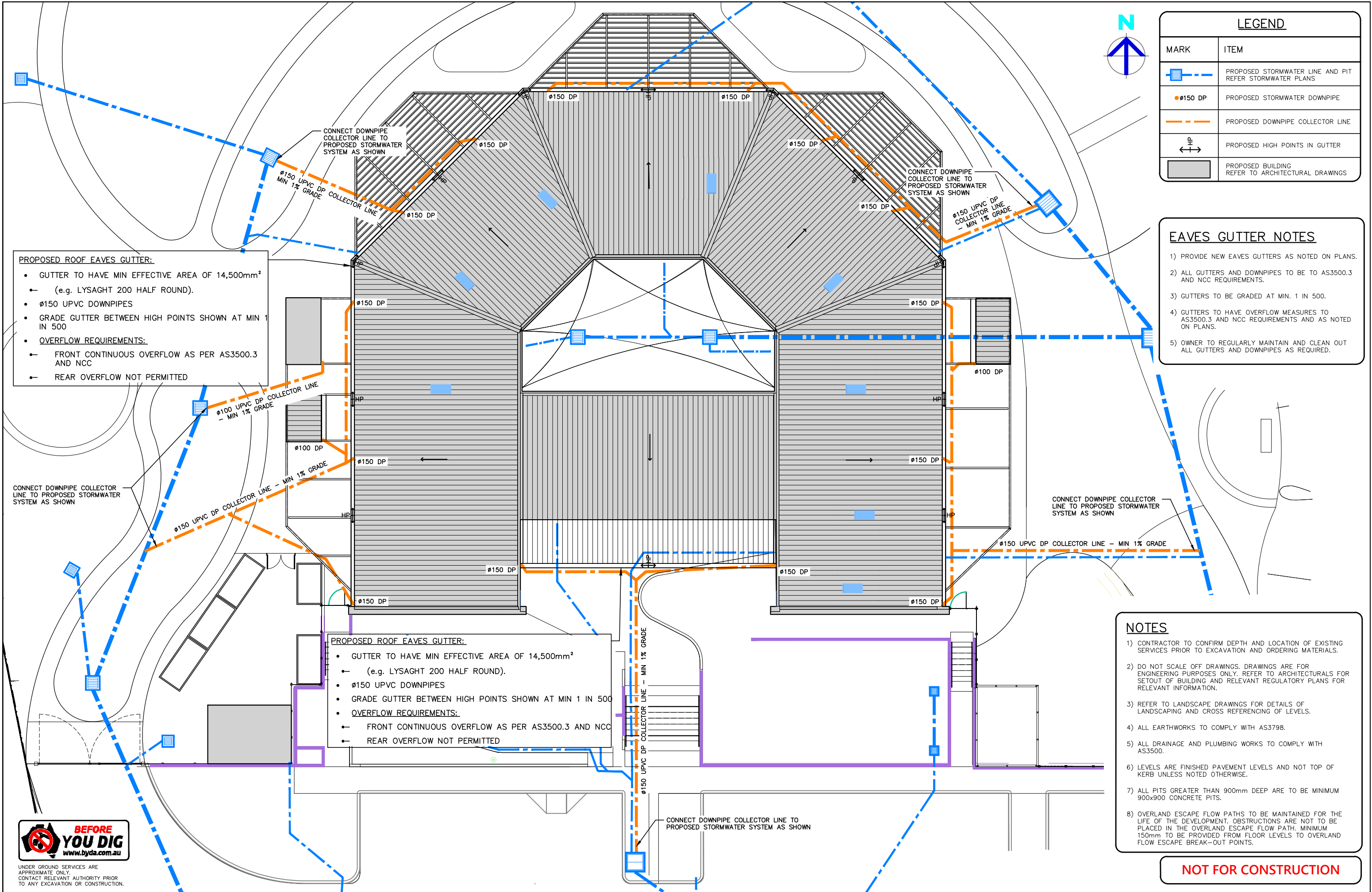
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FARRER ROAD
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: STORMWATER PIT SCHEDULE			Project Number:	
Client: COLLIERS INTERNATIONAL		Checked:	230728	
Scale: 1:200 (A1) 1:400 (A3)		Approved:		
Design: S.X	Drawn: N.T	Date: MAR 2024	Sheet Number: B2103	Revision Number: P17



PROPOSED ROOF EAVES GUTTER:

- GUTTER TO HAVE MIN EFFECTIVE AREA OF 14,500mm²
(e.g. LYSAGHT 200 HALF ROUND).
- Ø150 UPVC DOWNPIPES
- GRADE GUTTER BETWEEN HIGH POINTS SHOWN AT MIN 1 IN 500
- OVERFLOW REQUIREMENTS:**
 - FRONT CONTINUOUS OVERFLOW AS PER AS3500.3 AND NCC
 - REAR OVERFLOW NOT PERMITTED

PROPOSED ROOF EAVES GUTTER:

- GUTTER TO HAVE MIN EFFECTIVE AREA OF 14,500mm²
(e.g. LYSAGHT 200 HALF ROUND).
- Ø150 UPVC DOWNPIPES
- GRADE GUTTER BETWEEN HIGH POINTS SHOWN AT MIN 1 IN 500
- OVERFLOW REQUIREMENTS:**
 - FRONT CONTINUOUS OVERFLOW AS PER AS3500.3 AND NCC
 - REAR OVERFLOW NOT PERMITTED

LEGEND	
MARK	ITEM
	PROPOSED STORMWATER LINE AND PIT REFER STORMWATER PLANS
	PROPOSED STORMWATER DOWNPIPE
	PROPOSED DOWNPIPE COLLECTOR LINE
	PROPOSED HIGH POINTS IN GUTTER
	PROPOSED BUILDING REFER TO ARCHITECTURAL DRAWINGS

EAVES GUTTER NOTES

- 1) PROVIDE NEW EAVES GUTTERS AS NOTED ON PLANS.
- 2) ALL GUTTERS AND DOWNPIPES TO BE TO AS3500.3 AND NCC REQUIREMENTS.
- 3) GUTTERS TO BE GRADED AT MIN. 1 IN 500.
- 4) GUTTERS TO HAVE OVERFLOW MEASURES TO AS3500.3 AND NCC REQUIREMENTS AND AS NOTED ON PLANS.
- 5) OWNER TO REGULARLY MAINTAIN AND CLEAN OUT ALL GUTTERS AND DOWNPIPES AS REQUIRED.

NOTES

- 1) CONTRACTOR TO CONFIRM DEPTH AND LOCATION OF EXISTING SERVICES PRIOR TO EXCAVATION AND ORDERING MATERIALS.
- 2) DO NOT SCALE OFF DRAWINGS. DRAWINGS ARE FOR ENGINEERING PURPOSES ONLY. REFER TO ARCHITECTURALS FOR SETOUT OF BUILDING AND RELEVANT REGULATORY PLANS FOR RELEVANT INFORMATION.
- 3) REFER TO LANDSCAPE DRAWINGS FOR DETAILS OF LANDSCAPING AND CROSS REFERENCING OF LEVELS.
- 4) ALL EARTHWORKS TO COMPLY WITH AS3798.
- 5) ALL DRAINAGE AND PLUMBING WORKS TO COMPLY WITH AS3500.
- 6) LEVELS ARE FINISHED PAVEMENT LEVELS AND NOT TOP OF KERB UNLESS NOTED OTHERWISE.
- 7) ALL PITS GREATER THAN 900mm DEEP ARE TO BE MINIMUM 900x900 CONCRETE PITS.
- 8) OVERLAND ESCAPE FLOW PATHS TO BE MAINTAINED FOR THE LIFE OF THE DEVELOPMENT. OBSTRUCTIONS ARE NOT TO BE PLACED IN THE OVERLAND ESCAPE FLOW PATH. MINIMUM 150mm TO BE PROVIDED FROM FLOOR LEVELS TO OVERLAND FLOW ESCAPE BREAK-OUT POINTS.

NOT FOR CONSTRUCTION



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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



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A.C.N. 137 881 853

Project:
PROPOSED CIVIL WORKS
ST. MARY'S RAINBOW PRESCHOOL
FARRER ROAD
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: ROOF DRAINAGE PLAN

Client: COLLIERS INTERNATIONAL

Scale: 1:100 (A1) 1:200 (A3)

Design: S.X

Drawn: N.T

Date: MAR 2024

Checked:

Approved:

Project Number:

230728

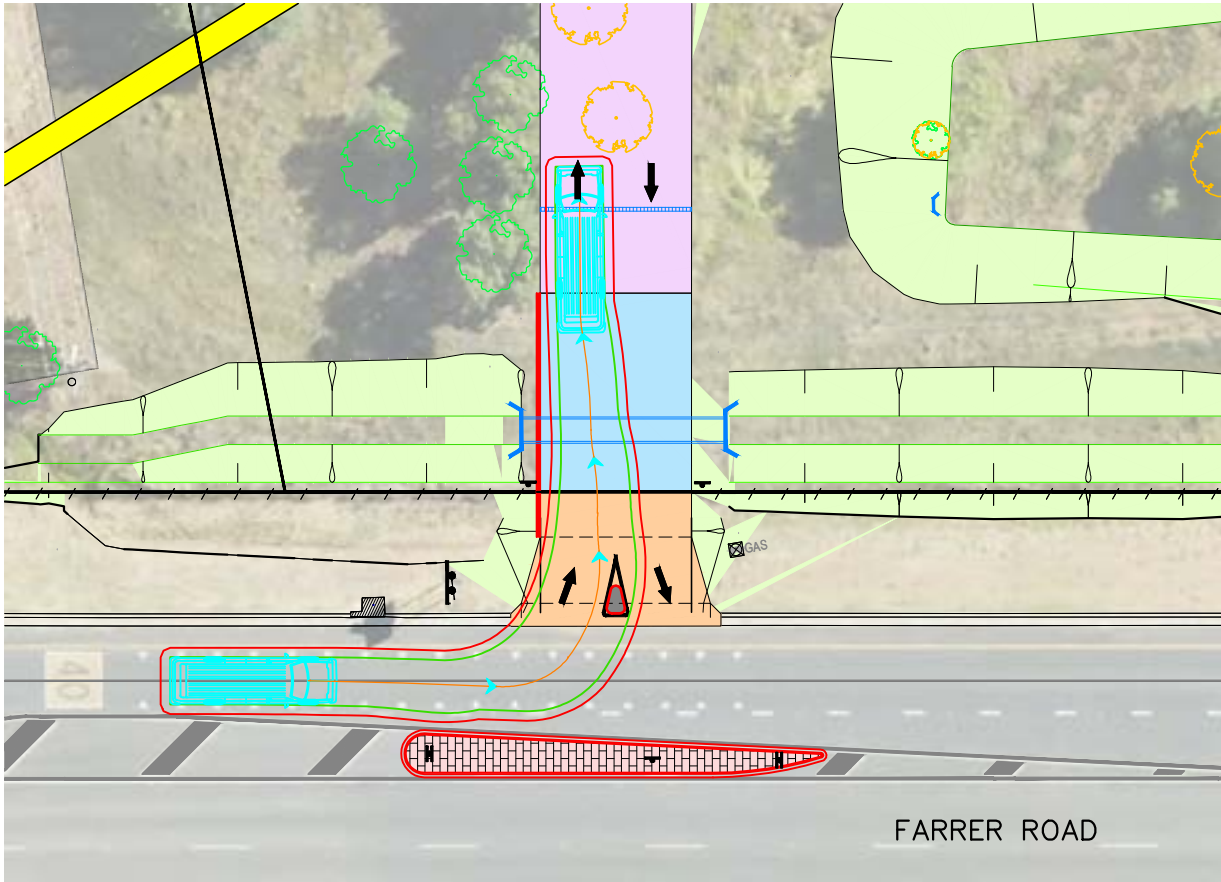
Sheet Number:

B2201

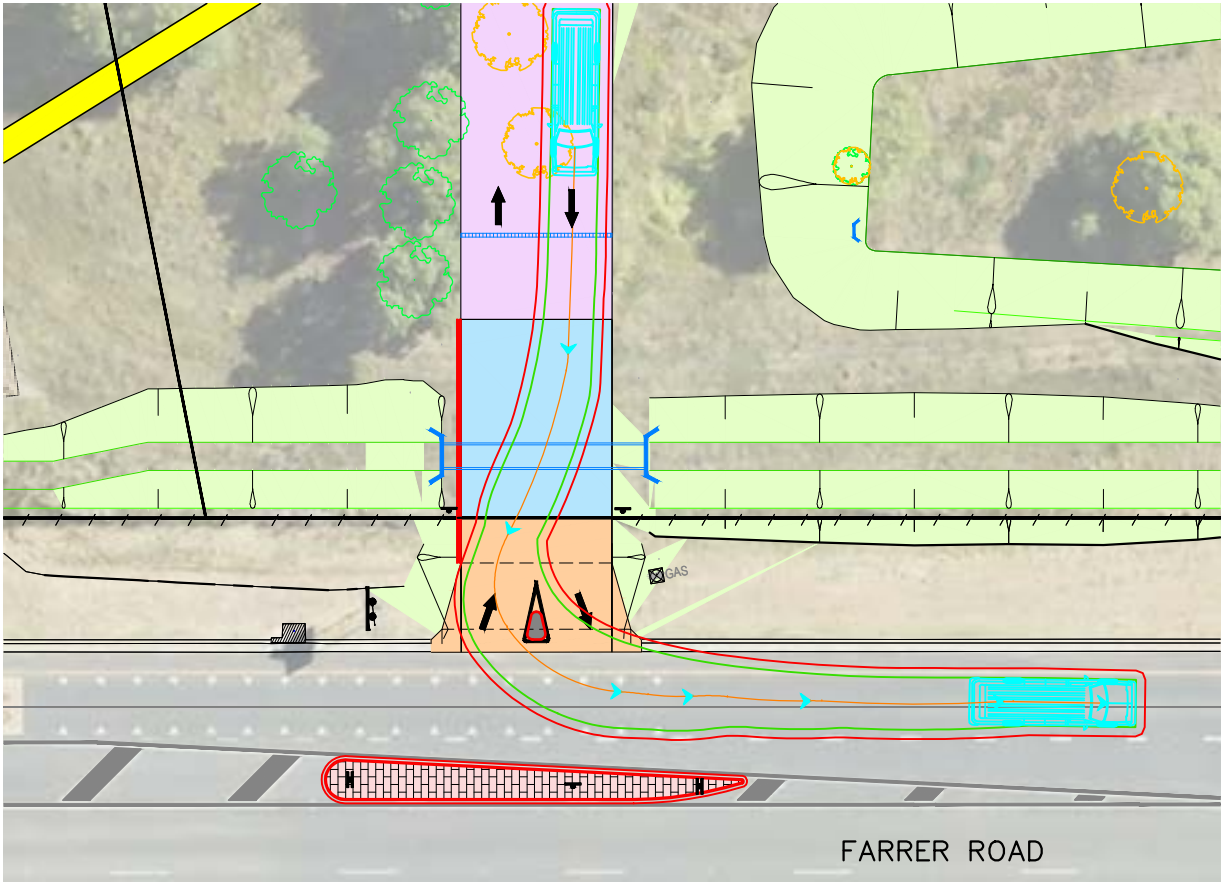
Revision Number:

P17

8.8m SERVICE VEHICLE ENTRY TURNING PATH



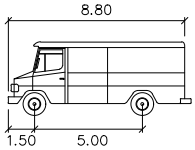
8.8m SERVICE VEHICLE EXIT TURNING PATH



LEGEND	
MARK	ITEM
	CENTRELINE OF VEHICLE TURNING PATH
	OUTER EXTREMITY OF BODY OVERHANG FOR VEHICLE TURNING PATH
	VEHICLE CROSSING AND DRIVEWAY TO BE CONSTRUCTED TO COUNCIL STANDARDS
	PROPOSED BITUMEN PAVING REFER TO DETAIL PV1
	PROPOSED CONCRETE CARPARK AND DRIVEWAY. REFER TO DETAIL PV2
	PROPOSED BATTER

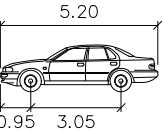
TURNING PATH NOTES

- 1) TURNING PATHS PRODUCED USING AUTOTURN
2) TURNING PATHS ARE FOR
- 5.20m PASSENGER CAR (AUSTRROADS 2013)
TRAVEL SPEEDS 5km/h
 - 8.80m SERVICE VEHICLE (AUSTRROADS 2013)
TRAVEL SPEEDS 5km/h



SERVICE VEHICLE

Width : 2.50
Track : 2.50
Lock to Lock Time : 6.0
Steering Angle : 38.7



PASSENGER-CAR

Width : 1.94
Track : 1.84
Lock to Lock Time : 6.0
Steering Angle : 33.6

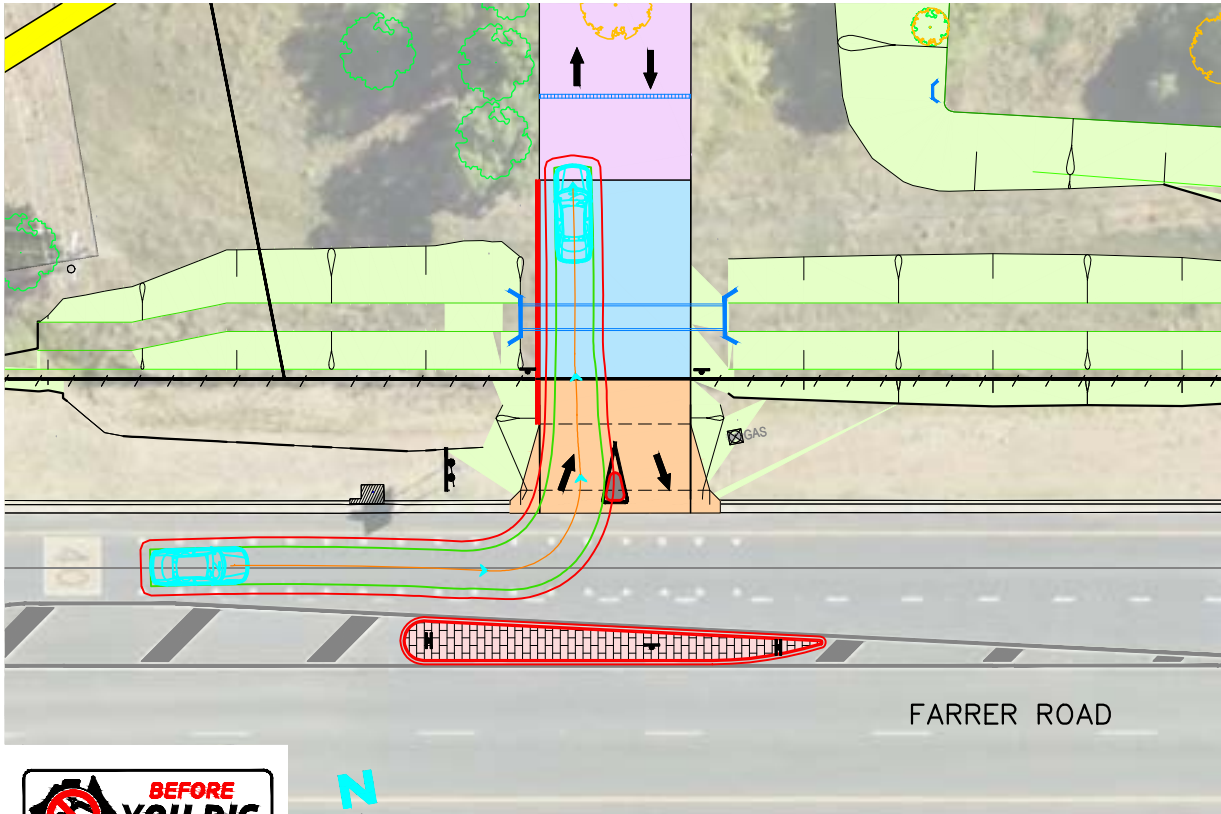
NOTES

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5) ALL DRAINAGE AND PLUMBING WORKS TO COMPLY WITH AS3500.
6) LEVELS ARE FINISHED PAVEMENT LEVELS AND NOT TOP OF KERB UNLESS NOTED OTHERWISE.
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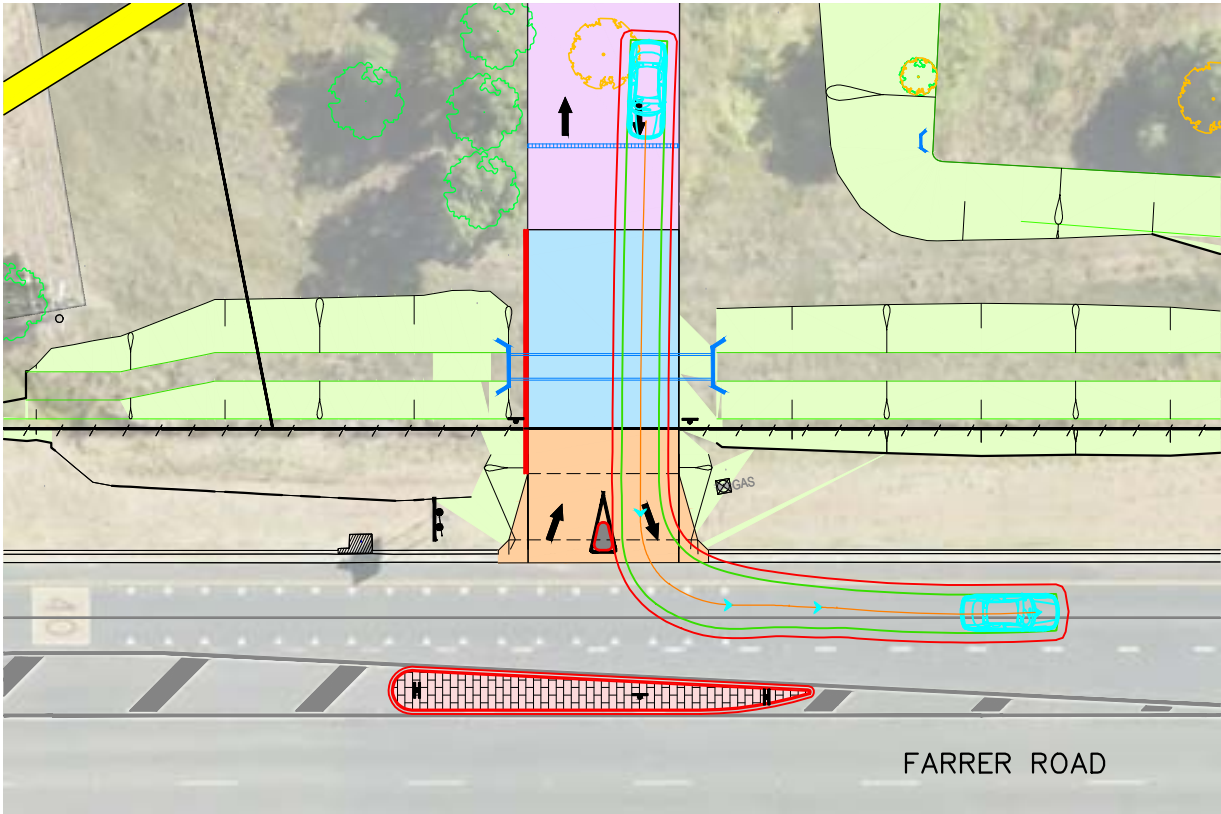
0 2 5 7.5 10 15 20
SCALE 1:200 (A1) METRES

NOT FOR CONSTRUCTION

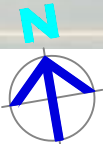
5.20m PASSENGER CAR ENTRY TURNING PATH



5.20m PASSENGER CAR EXIT TURNING PATH



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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



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Project:
PROPOSED CIVIL WORKS
ST. MARY'S RAINBOW PRESCHOOL
FARRER ROAD
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: TURNING PATHS - SITE ACCESS

Client: COLLIERS INTERNATIONAL

Scale: 1:200 (A1) 1:400 (A3)

Design: S.X

Drawn: N.T

Date: MAR 2024

Checked:

Approved:

Project Number:

230728

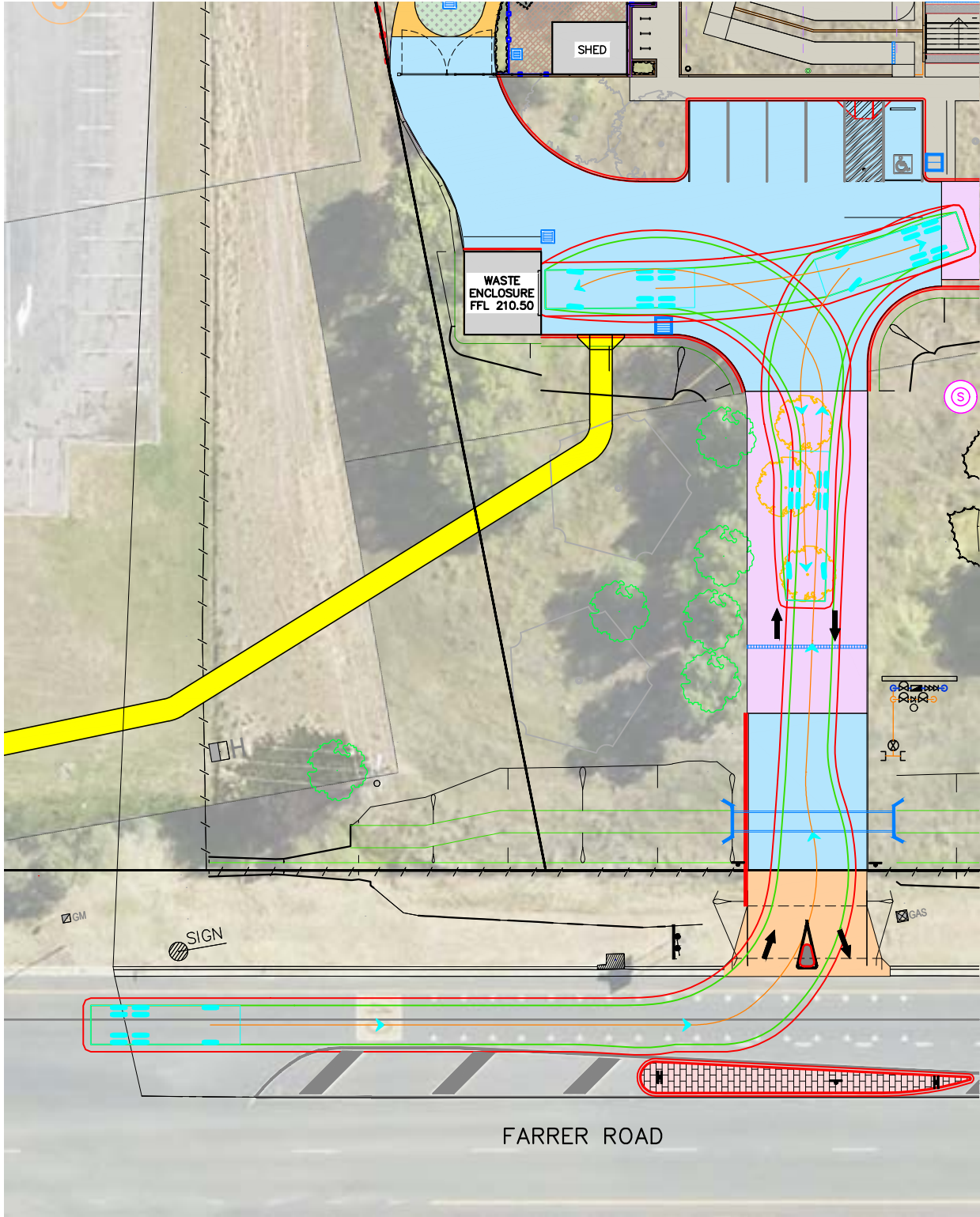
Sheet Number:

TP001

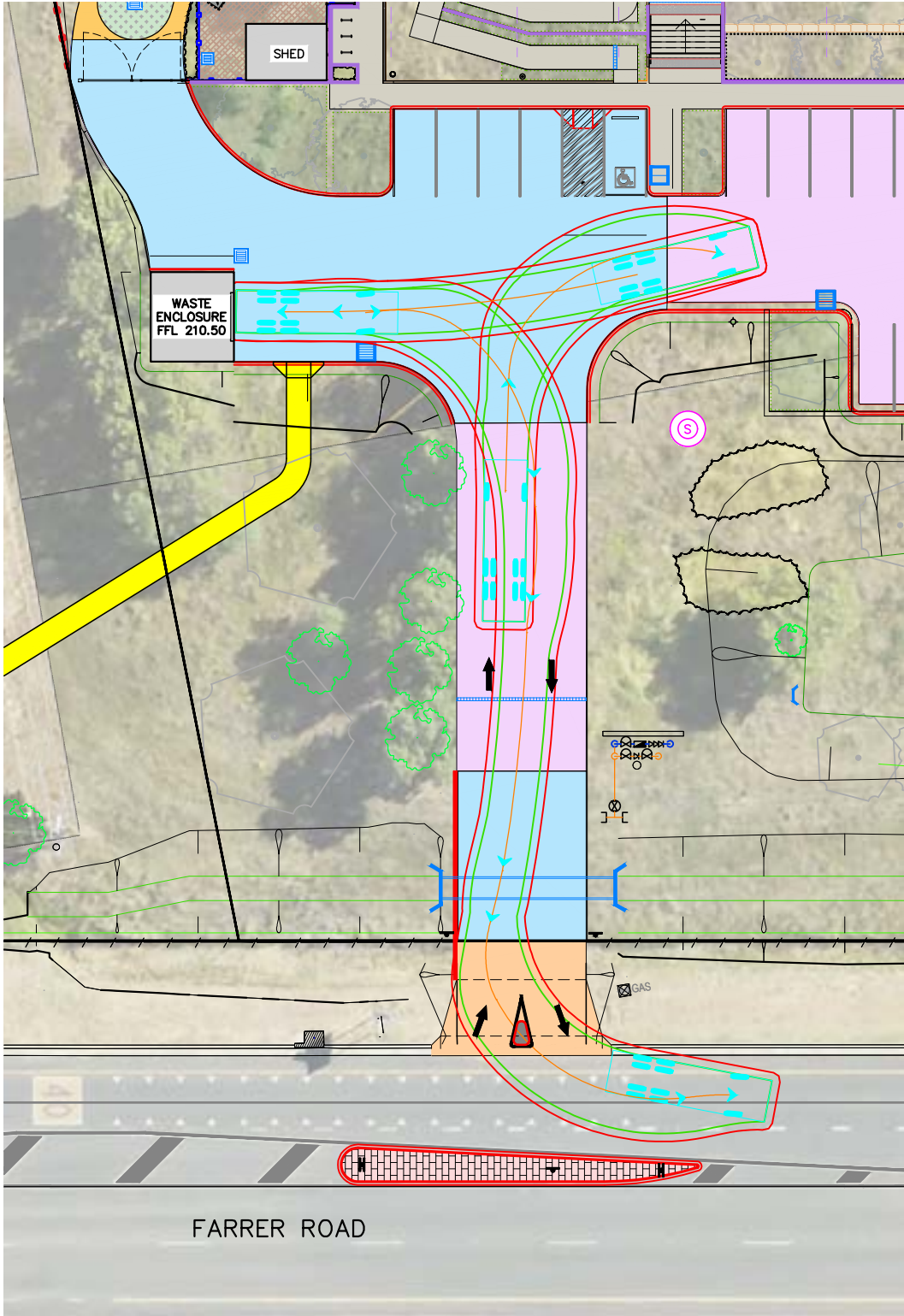
Revision Number:

P17

10.0m GARBAGE TRUCK ENTRY TURNING PATH



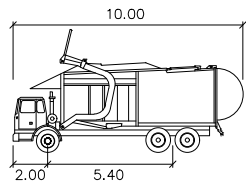
10.0m GARBAGE TRUCK EXIT TURNING PATH



LEGEND	
MARK	ITEM
	CENTRELINE OF VEHICLE TURNING PATH
	OUTER EXTREMITY OF BODY OVERHANG FOR VEHICLE TURNING PATH
	PROPOSED BUILDING REFER TO ARCHITECTURAL DRAWINGS
	VEHICLE CROSSING AND DRIVEWAY TO BE CONSTRUCTED TO COUNCIL STANDARDS
	PROPOSED BITUMEN PAVING REFER TO DETAIL PV1
	PROPOSED CONCRETE CARPARK AND DRIVEWAY. REFER TO DETAIL PV2
	PROPOSED CONCRETE FOOTPATH AND BIKE TRACK. REFER TO DETAIL PV3

TURNING PATH NOTES

- TURNING PATHS PRODUCED USING AUTOTURN
- TURNING PATHS ARE FOR
 - 10.0m FRONT LOADING WASTE COLLECTING TRUCK (CA)
 - TRAVEL SPEEDS 5km/h



Waste Collection Truck

meters	
Width	: 2.60
Track	: 2.60
Lock to Lock Time	: 6.0
Steering Angle	: 27.7

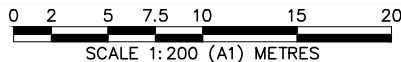
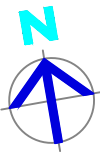
NOTES

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- ALL DRAINAGE AND PLUMBING WORKS TO COMPLY WITH AS3500.
- LEVELS ARE FINISHED PAVEMENT LEVELS AND NOT TOP OF KERB UNLESS NOTED OTHERWISE.
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NOT FOR CONSTRUCTION



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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



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Project:
PROPOSED CIVIL WORKS
ST. MARY'S RAINBOW PRESCHOOL
FARRER ROAD
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: TURNING PATHS - GARBAGE TRUCK

Client: COLLIERS INTERNATIONAL

Scale: 1:200 (A1) 1:400 (A3)

Design: S.X

Drawn: N.T

Date: MAR 2024

Checked:

Approved:

Project Number:

230728

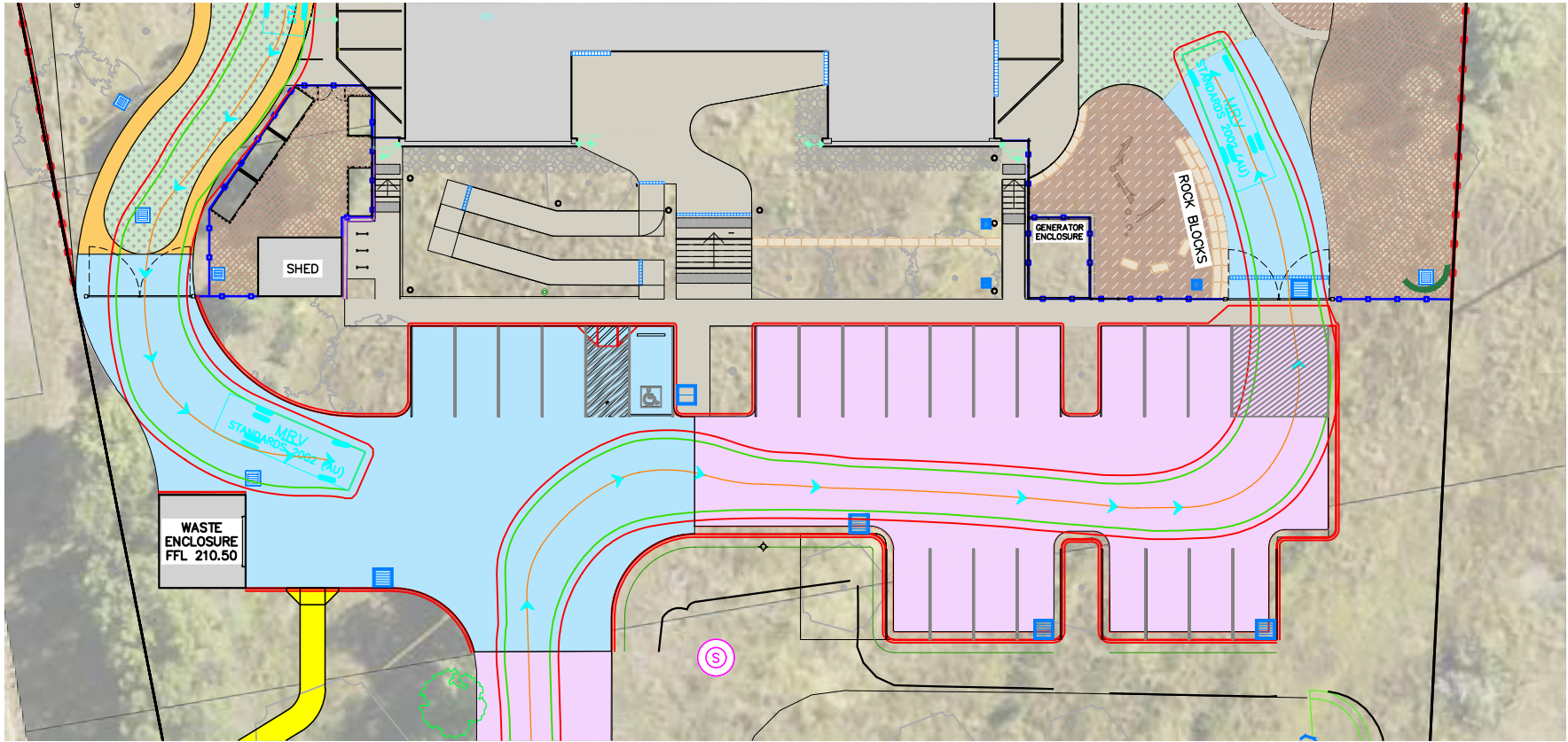
Sheet Number:

TP002

Revision Number:

P17

8.8m GENERAL FIRE APPLIANCE (MEDIUM RIGID – AS2890.2) – COUNTERCLOCKWISE THROUGH SITE

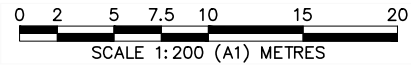
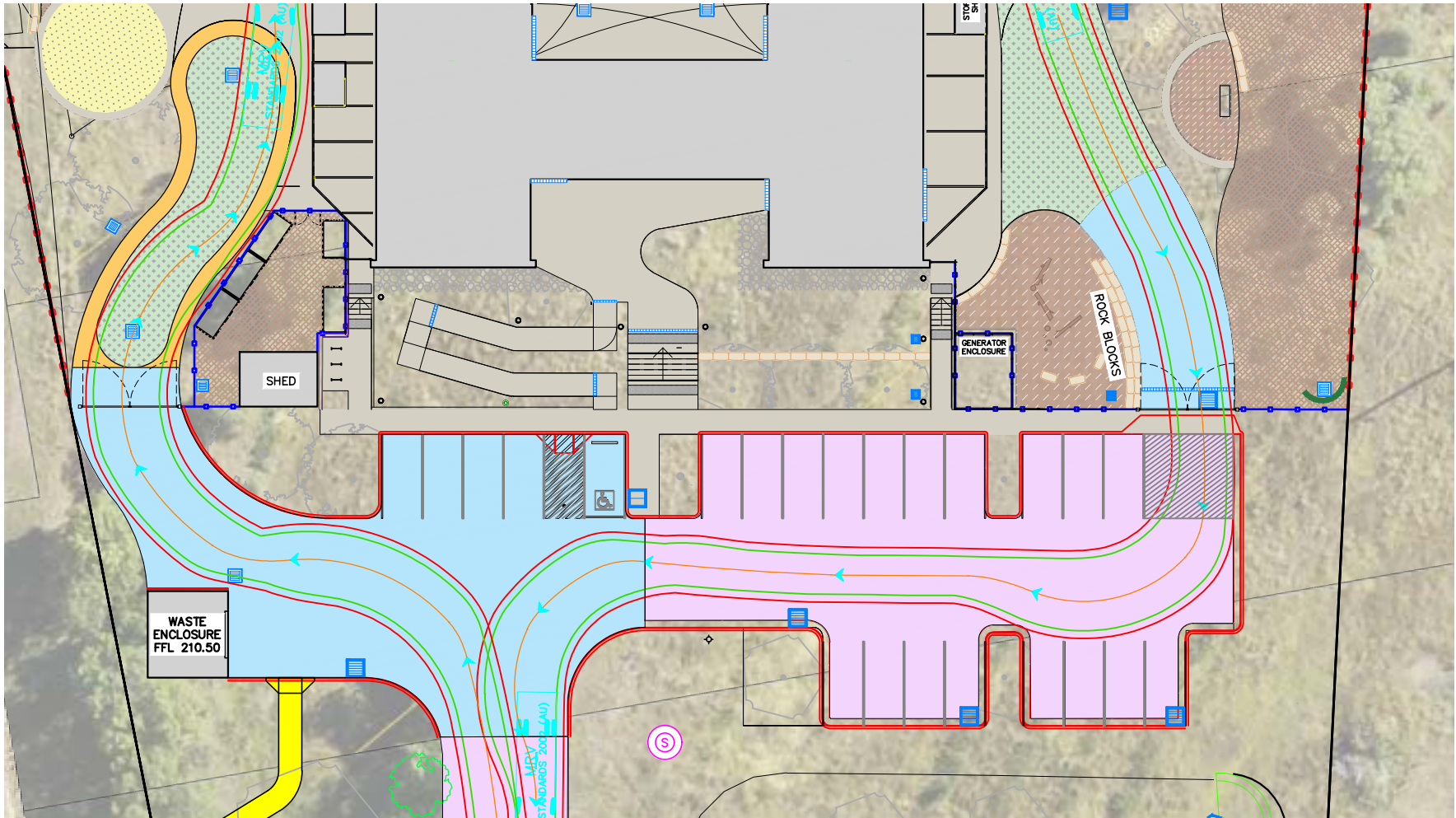


LEGEND	
MARK	ITEM
	CENTRELINE OF VEHICLE TURNING PATH
	OUTER EXTREMITY OF BODY OVERHANG FOR VEHICLE TURNING PATH
	PROPOSED BUILDING REFER TO ARCHITECTURAL DRAWINGS
	VEHICLE CROSSING AND DRIVEWAY TO BE CONSTRUCTED TO COUNCIL STANDARDS
	PROPOSED BITUMEN PAVING REFER TO DETAIL PV1
	PROPOSED CONCRETE CARPARK AND DRIVEWAY. REFER TO DETAIL PV2
	PROPOSED CONCRETE FOOTPATH AND BIKE TRACK. REFER TO DETAIL PV3

TURNING PATH NOTES

- TURNING PATHS PRODUCED USING AUTOTURN
- TURNING PATHS ARE FOR
 - 8.8m GENERAL FIRE APPLIANCE (AS2890.2 –
 - 8.8m MEDIUM RIGID
 - TRAVEL SPEEDS 5km/h

8.8m GENERAL FIRE APPLIANCE (MEDIUM RIGID – AS2890.2) – CLOCKWISE THROUGH SITE



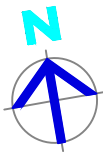
NOTES

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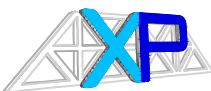
NOT FOR CONSTRUCTION



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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES – RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



XEROS PICCOLO
CONSULTING ENGINEERS

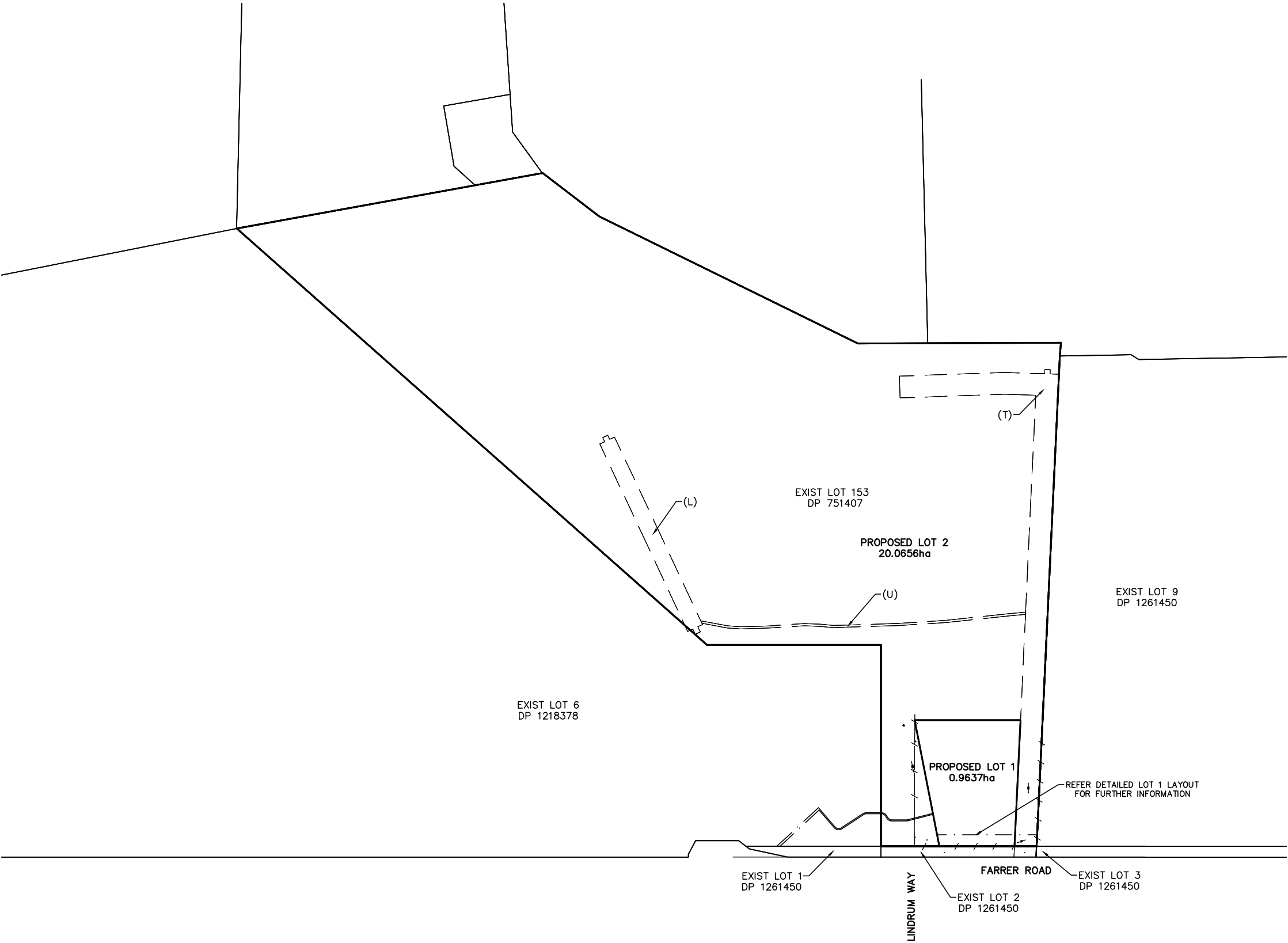
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Project:
PROPOSED CIVIL WORKS
ST. MARY'S RAINBOW PRESCHOOL
FARRER ROAD
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: TURNING PATHS – FIRE APPLIANCE		Project Number:	
Client: COLLIERS INTERNATIONAL	Checked:	230728	
Scale: 1:200 (A1) 1:400 (A3)	Approved:	Sheet Number:	Revision Number:
Design: S.X	Drawn: N.T	Date: MAR 2024	TP003 P17

LEGEND	
MARK	ITEM
	EXISTING FENCE LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	PROPOSED BOUNDARY LINE
	EXISTING BOUNDARY LINE

- (T) PROPOSED EASEMENT FOR OVERHEAD POWERLINES 20m WIDE & 5m WIDE
- (L) PROPOSED EASEMENT FOR OVERHEAD POWERLIENS 15m WIDE & 5m WIDE
- (U) PROPOSED EASEMENT FOR UNDERGROUND POWERLINES 2m WIDE

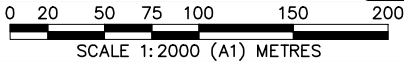
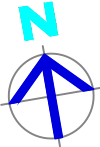


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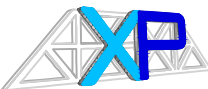


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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES – RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY

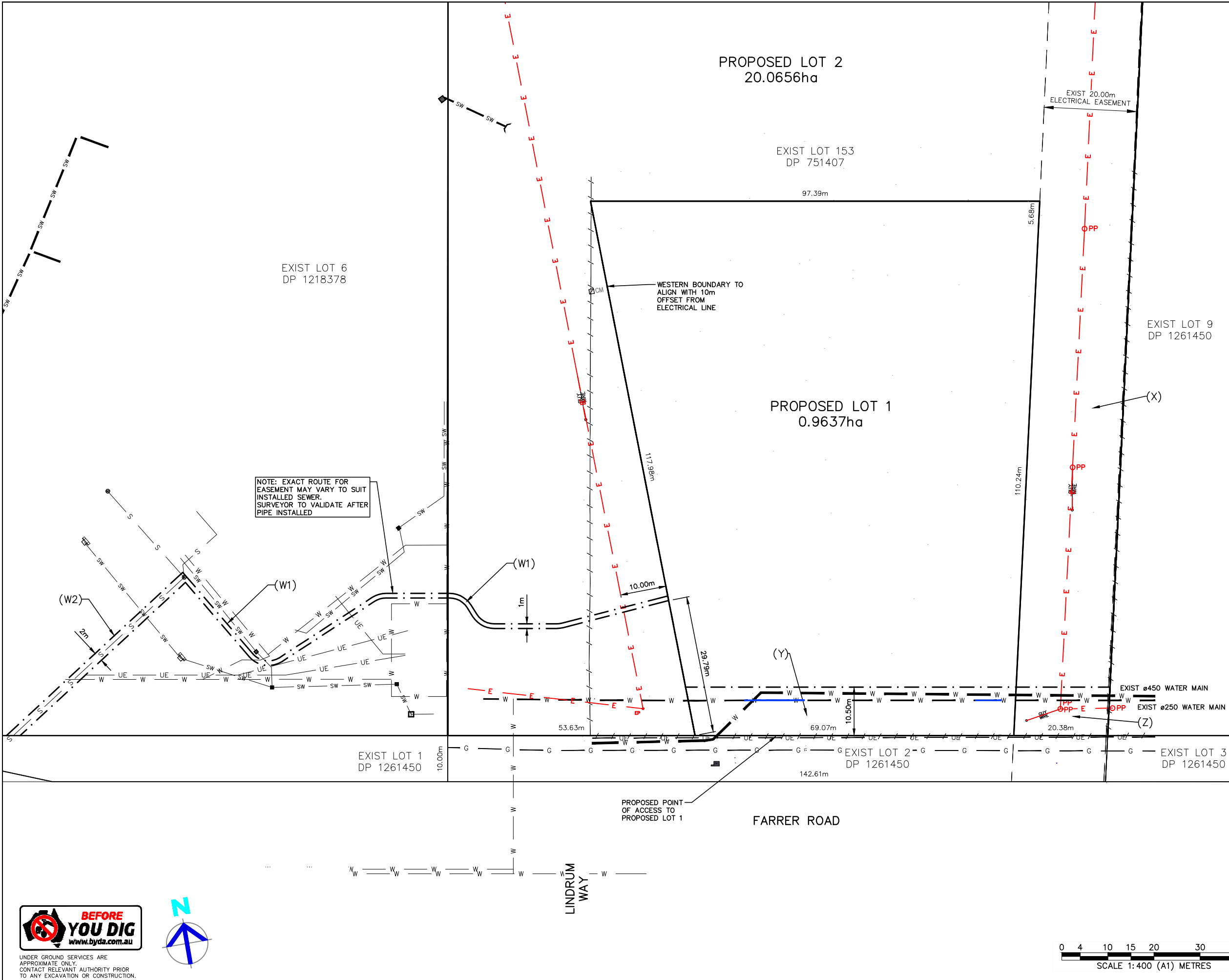


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Project:
PROPOSED CIVIL WORKS
ST. MARY'S RAINBOW PRESCHOOL
FARRER ROAD
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: OVERALL PROPOSED SUBDIVISION LAYOUT			Project Number:	
Client: COLLIERS INTERNATIONAL		Checked:	230728	
Scale: 1:2000 (A1) 1:4000 (A3)		Approved:		
Design: S.X	Drawn: N.T	Date: MAR 2024	Sheet Number: SUB01	Revision Number: P17

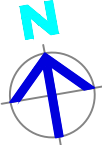


LEGEND	
MARK	ITEM
	EXISTING ELECTRICITY LINE
	EXISTING UNDERGROUND ELECTRICITY LINE
	EXISTING STORMWATER PIT
	EXISTING HEADWALL
	EXISTING STORMWATER LINE
	EXISTING WATERMAIN
	EXISTING GAS MAIN
	EXISTING FENCE LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	PROPOSED BOUNDARY LINE
	EXISTING BOUNDARY LINE

- (W1) PROPOSED EASEMENT 1m WIDE FOR SEWER
- (W2) PROPOSED EASEMENT 2m WIDE FOR SEWER
- (X) EXISTING EASEMENT 20m WIDE FOR OVERHEAD ELEC. LINES
- (Y) PROPOSED EASEMENT 10.5m WIDE FOR STORMWATER AND WATER
- (W) PROPOSED EASEMENT VARIABLE WIDTH FOR OVERHEAD ELEC. LINES, STORMWATER, AND WATER

- NOTES**
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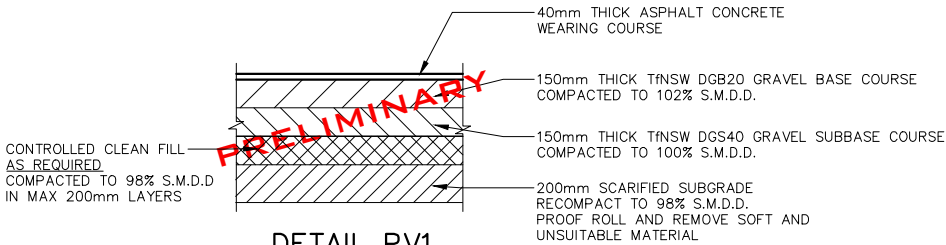
P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X.
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X.
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X.
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X.
No.	DATE	DETAILS	BY



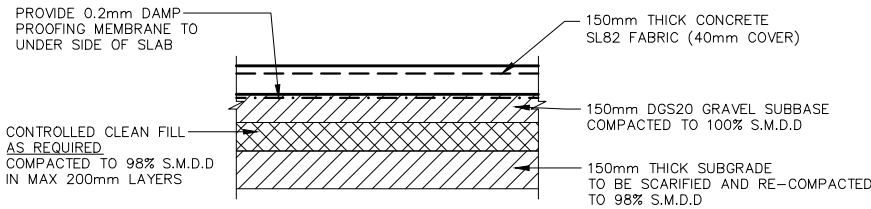
S BYE STREET
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Project:
PROPOSED CIVIL WORKS
ST. MARY'S RAINBOW PRESCHOOL
FARRER ROAD
CHARLES STURT UNIVERSITY NSW 2678

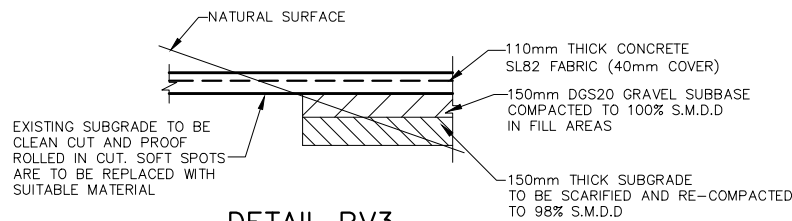
Sheet Title: PROPOSED SUBDIVISION PLAN DETAILED LOT 1				Project Number:	
Client: COLLIERS INTERNATIONAL			Checked:		230728
Scale: 1: 400 (A1) 1: 800 (A3)			Approved:		
Design: S.X	Drawn: N.T	Date: MAR 2024	Sheet Number: SUB02		



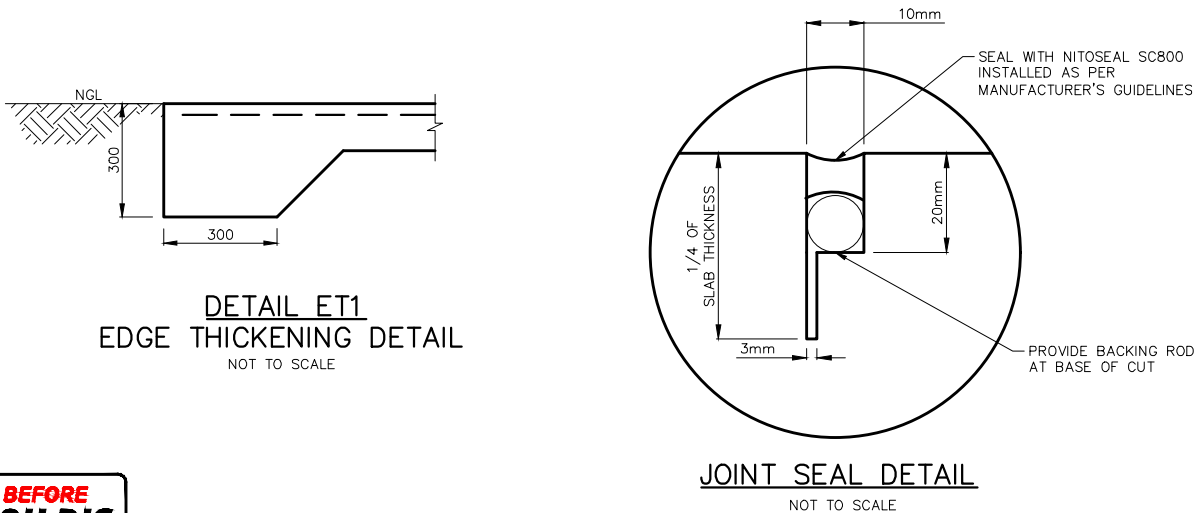
DETAIL PV1
TYP. FLEXIBLE GRANULAR
PAVEMENT WITH ASPHALT/HOTMIX
WEARING COURSE



DETAIL PV2
TYP. PAVING DETAIL
(150mm CONC.)
NOTE: PROVIDE DOWEL JOINTS "D.J."
@ MAX. 15000CTS. & CONTROL JOINTS
"C.J" @ MAX. 5000CTS.



DETAIL PV3
TYP. PAVING DETAIL
(110mm CONC.)
NOTE: PROVIDE DOWEL JOINTS "D.J."
@ MAX. 15000CTS. & CONTROL
JOINTS "C.J" @ MAX. 5000CTS.

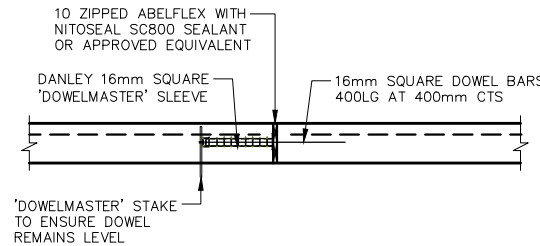


GENERAL PAVEMENT NOTES

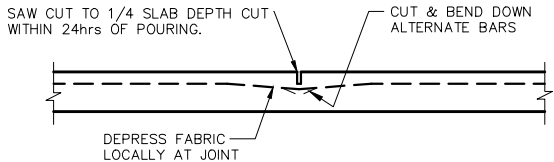
1. **MATERIALS**
- 1.1. MATERIALS AND THEIR WORKMANSHIP SHALL BE THE BEST OF THEIR RESPECTIVE KINDS AND UNLESS SPECIFIED SHALL CONFORM TO SUCH STANDARD SPECIFICATIONS ISSUED BY THE AUSTRALIAN STANDARDS ASSOCIATION.
2. **WORKS**
- 2.1. THE CONTRACTOR IS NOT TO ENTER INTO, UPON OR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE WRITTEN PERMISSION OF THE AUTHORISED PERSON.
- 2.2. THE CONTRACTOR IS TO MAINTAIN ALL WEATHER ACCESS AT ALL TIMES.
3. **SUBGRADE – NOT STABILISED**
- 3.1. THE SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 200mm AND CONSOLIDATED WITH AN APPROVED ROLLER TO ACHIEVE A 98% STANDARD MAXIMUM DRY DENSITY TO AS.1289 E2.1.
- 3.2. THE SUBGRADE IS TO BE PROOF ROLLED AND SILT AND OTHER SOFT AND UNSUITABLE MATERIAL IS TO BE EXCAVATED AND REPLACED WITH AN APPROVED MATERIAL. EXCESS MATERIAL IS TO BE REMOVED FROM SITE UNLESS APPROVED OTHERWISE.
4. **CONTROLLED EARTH FILL**
- 4.1. ALL CONTROLLED EARTH FILL MATERIALS SHALL BE SUITABLE CLEAN, NON-REACTIVE FILL MATERIAL.
- 4.2. WHERE REQUIRED, CONTROLLED EARTH FILL IS TO BE PLACED AND COMPACTED TO THE REQUIRED THICKNESS AND TO ACHIEVE A 98% STANDARD MAXIMUM DRY DENSITY TO AS 1289 C15.4.1
- 4.3. THE MATERIALS SHALL BE SPREAD ON THE UNDERLYING LAYER HAVING A COMPACTED THICKNESS NOT EXCEEDING 200mm BUT NOT LESS THAN 100mm.
5. **SUBBASE**
- 5.1. A LAYER OF CRUSHED ROCK OR GRAVEL IS TO BE PLACED TO THE REQUIRED THICKNESS AND COMPACTED TO ACHIEVE A 100% STANDARD MAXIMUM DRY DENSITY TO AS 1289 C15.4.1. THE MATERIALS SHALL BE SPREAD ON THE SUBBASE IN LAYERS HAVING A COMPACTED THICKNESS NOT EXCEEDING 150mm BUT GREATER THAN 100mm.
- 5.2. ALL BASE MATERIAL SHALL COMPLY WITH TNSW DGS40 SPECIFICATION UNLESS NOTED OTHERWISE.
6. **BASE**
- 6.1. A LAYER OF CRUSHED ROCK OR GRAVEL IS TO BE PLACED TO THE REQUIRED THICKNESS AND COMPACTED TO ACHIEVE A 102% STANDARD MAXIMUM DRY DENSITY TO AS 1289 C15.4.1. THE MATERIALS SHALL BE SPREAD ON THE SUBBASE IN LAYERS HAVING A COMPACTED THICKNESS NOT EXCEEDING 150mm BUT GREATER THAN 100mm.
- 6.2. ALL BASE MATERIAL SHALL COMPLY WITH TNSW DGB20 SPECIFICATION UNLESS NOTED OTHERWISE.

CONCRETE NOTES:

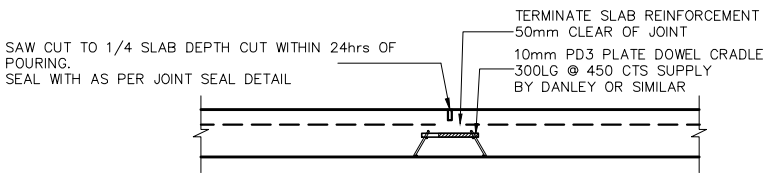
1. WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH AS 3600 CONCRETE STRUCTURES AND CURRENT SAA CODES.
2. CONCRETE CHARACTERISTICS:
- | ELEMENT | GRADE (MPa 28 DAYS) | SLUMP (mm) | MAX. AGG. (mm) | ADDITIVES |
|-------------|---------------------|------------|----------------|-----------|
| SLAB | N32 | 80 | 20 | NIL |
| PITS | N32 | 80 | 20 | NIL |
| RW FOOTINGS | N32 | 80 | 20 | NIL |
3. CONCRETE TO BE PLACED USING MECHANICAL VIBRATORS.
4. SLAB THICKNESS' DO NOT INCLUDE FINISH.
5. REINFORCING BARS AND REINFORCING FABRIC TO BE IN ACCORDANCE WITH RESPECTIVE SAA CODES.
- (i) AS 1302 STEEL REINFORCING BARS FOR CONCRETE:
– R DENOTES PLAIN ROUND STRUCTURAL GRADE BARS, $f_{sy}=250\text{MPa}$
– N DENOTES TEMPPORE STRUCTURAL GRADE DEFORMED BARS, $f_{sy}=500\text{MPa}$
- (ii) AS 1304 WELDED WIRE REINFORCING FABRIC FOR CONCRETE:
– RF DENOTES HIGH TENSILE WELDED WIRE FABRIC, $f_{sy}=500\text{MPa}$
6. CLEAR CONCRETE COVER TO REINFORCEMENT TO BE:
- | ELEMENT | COVER (mm) |
|---------------------------------|------------|
| SURFACES IN CONTACT WITH GROUND | |
| – WITHOUT MEMBRANE | 50 |
| – WITH MEMBRANE | 30 |
| SLAB | 50 |
| FOOTING | 30 |
| ABOVE GROUND INTERIOR | 30 |
| ABOVE GROUND EXTERIOR | 30 |
7. MASONRY SUPPORTING SLABS TO HAVE 2 LAYERS ALCOR "SLIP JOINT" BETWEEN THE TWO SURFACES.
8. SLABS ABUTTING MASONRY OR CONCRETE TO HAVE 10mm ZIPPED ABELFLEX BETWEEN THE SURFACES AND ARE TO BE SEALED WITH NITOSEAL SC800 SEALANT OR EQUIVALENT.



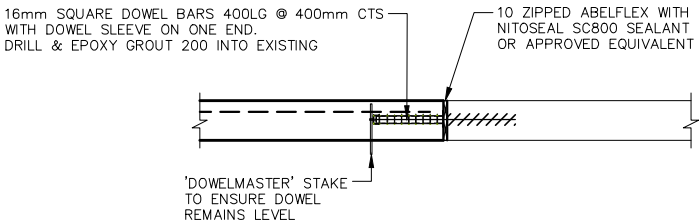
16mm SQUARE DOWEL JOINT DETAIL 'S.D.J'
WITH DANLEY 'DOWELMASTER' SLEEVE
NOT TO SCALE



CONTROL JOINT DETAIL 'C.J'
NOT TO SCALE



DETAIL 'P.D.C'
10mm PD3 PLATE DOWEL CRADLE
REFER TO PLAN FOR LOCATIONS



16mm SQUARE DOWEL JOINT DETAIL 'S.D.J.E'
FOR DOWELING INTO EXISTING
NOT TO SCALE



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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES – RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



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Sheet Title: PAVEMENT DETAILS

Client: COLLIERS INTERNATIONAL

Scale: 1:20 (A1) 1:40 (A3) OR AS SHOWN

Design: S.X

Drawn: N.T

Date: MAR 2024

Checked:

Approved:

Project Number:

230728

Sheet Number:

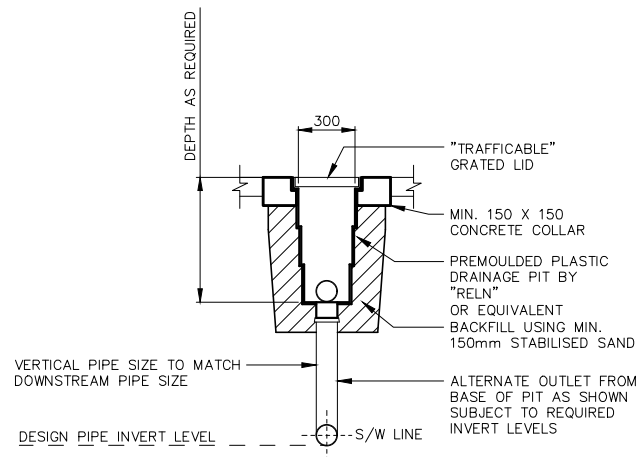
DE1001

Revision Number:

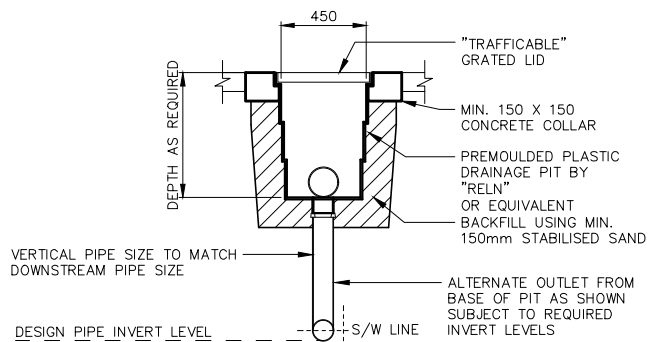
P17

NOT FOR CONSTRUCTION

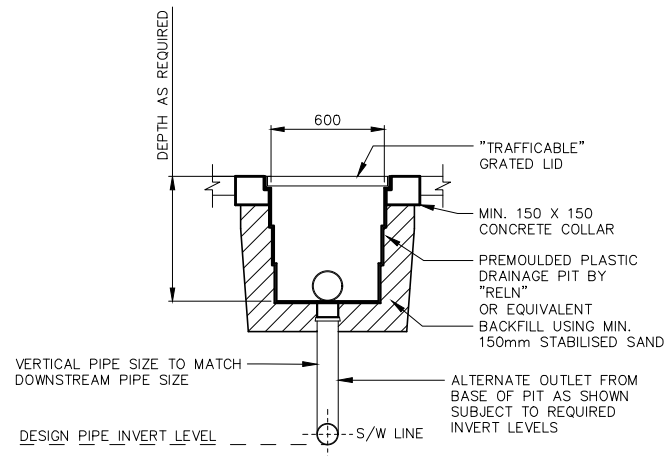
**NOTE: GRATES IN PEDESTRIAN WALKWAYS
TO HAVE ANTI-SLIP HEEL SAFE GRATES**



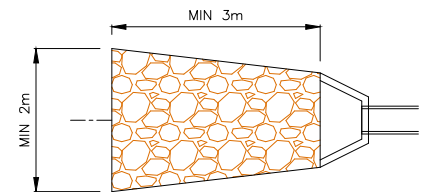
DETAIL SWP1
TYP. PLASTIC PIT DETAIL
(300 X 300)



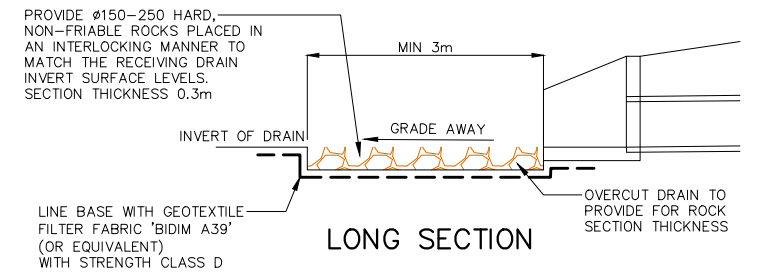
DETAIL SWP2
TYP. PLASTIC PIT DETAIL
(450 X 450)



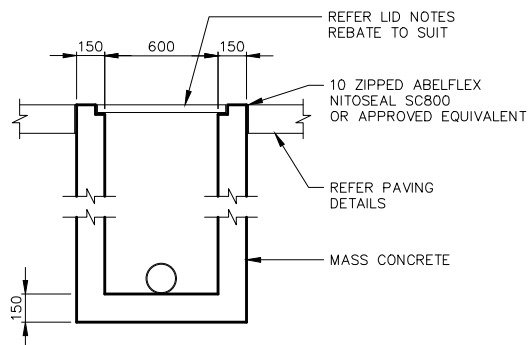
DETAIL SWP3
TYP. PLASTIC PIT DETAIL
(600 X 600)



PLAN



DETAIL HO1
TYPICAL CULVERT HEADWALL OUTLET
ROCK RIP RAP DETAIL
NOT TO SCALE



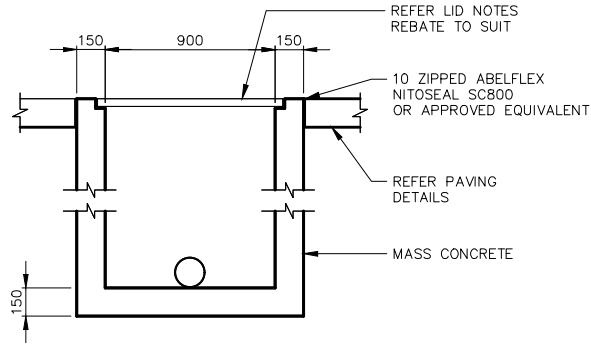
DETAIL SWP4
TYP. CONCRETE PIT DETAIL
(600 X 600)

NOTES: WHEN PIT IS ADJACENT TO BITUMEN AND/OR ASPHALT PAVEMENT, JOINTS TO BE SEALED WITH NITOSEAL SC820

ACCESS COVERS AND GRATES TO BE OF AN
APPROPRIATE LOAD CLASS AS PER AS3996 OR
AS SPECIFIED BELOW

GRATED INLET PIT (GP):
LID TO BE HOT DIPPED GALVANIZED FABRICATED
STEEL GRATE AS PER AS3996

JUNCTION PIT (JP):
LID TO BE CONSTRUCTED FROM TRAFFICABLE
PRECAST CONCRETE.



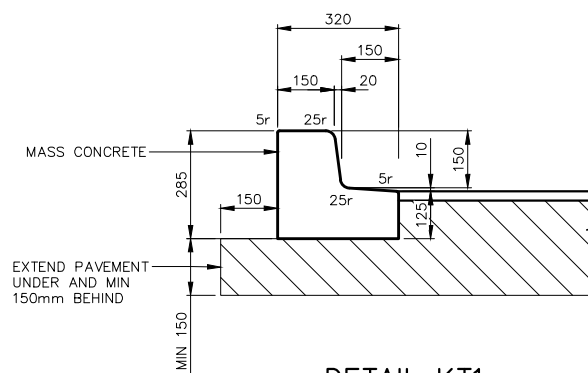
DETAIL SWP5
TYP. CONCRETE PIT DETAIL
(900 X 900)

NOTES: WHEN PIT IS ADJACENT TO BITUMEN AND/OR ASPHALT PAVEMENT, JOINTS TO BE SEALED WITH NITOSEAL SC820

ACCESS COVERS AND GRATES TO BE OF AN
APPROPRIATE LOAD CLASS AS PER AS3996 OR
AS SPECIFIED BELOW

GRATED INLET PIT (GP):
LID TO BE HOT DIPPED GALVANIZED FABRICATED
STEEL GRATE AS PER AS3996

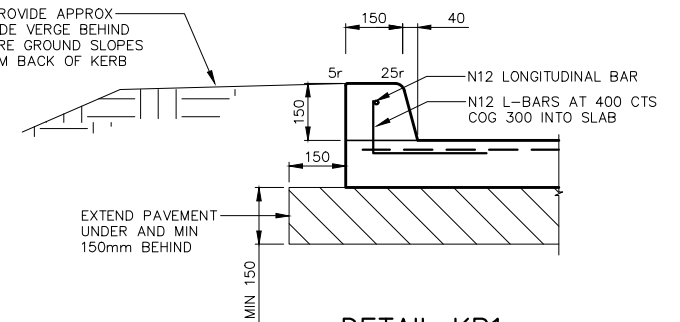
JUNCTION PIT (JP):
LID TO BE CONSTRUCTED FROM TRAFFICABLE
PRECAST CONCRETE.



DETAIL KT1
TYP. 150mm HIGH KERB AND TOE
(K+T)

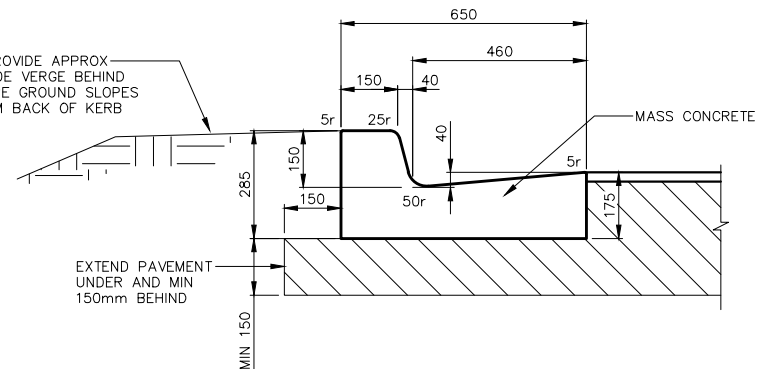
SCALE: 1:10 (A1) 1:20 (A3)

NOTES:
1. PROVIDE TROWEL JOINTS AT 3m CTS



DETAIL KB1
BARRIER KERB DETAIL
150mm HIGH
KB

SCALE: 1:10 (A1) 1:20 (A3)



DETAIL KG1
TYP. 150mm HIGH KERB AND GUTTER
ADJACENT TO BITUMEN PAVEMENT (K+G)

SCALE: 1:10 (A1) 1:20 (A3)

NOTES:
1. PROVIDE TROWEL JOINTS AT 3m CTS



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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES – RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



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Project:	PROPOSED CIVIL WORKS ST. MARY'S RAINBOW PRESCHOOL FARRER ROAD CHARLES STURT UNIVERSITY NSW 2678
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Sheet Title: STORMWATER DETAILS 1/5

Client: COLLIERS INTERNATIONAL

Scale: 1:20 (A1) 1:40 (A3) OR AS SHOWN

Design: S.X	Drawn: N.T	Date: MAR 2024
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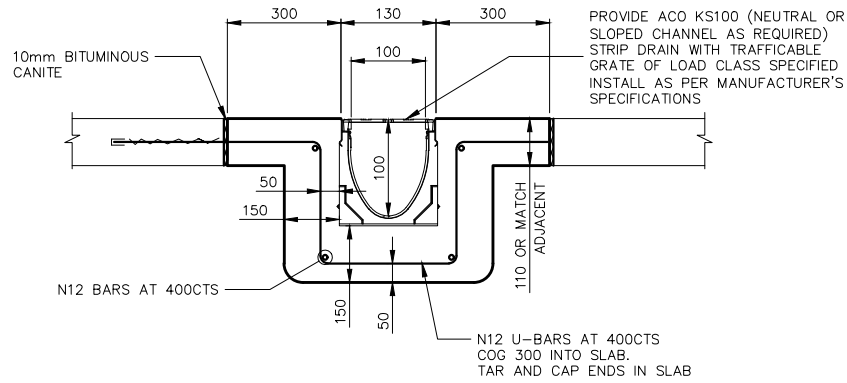
NOT FOR CONSTRUCTION

Project Number:

230728

Sheet Number:	Revision Number:
DE2001	P17

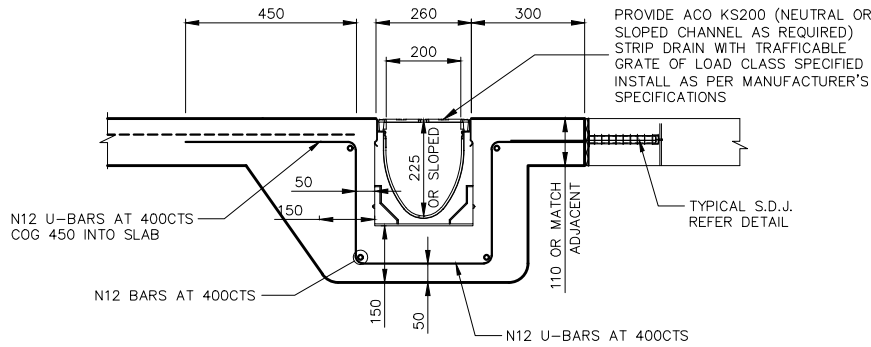
NOTE: GRATES IN PEDESTRIAN WALKWAYS
TO HAVE ANTI-SLIP HEEL SAFE GRATES



DETAIL AC1
ACO KS100 GRATED STRIP DRAIN
(TRAFFICABLE)

SCALE: 1:10 (A1) 1:20 (A3)

- NOTES:
- 1) STRIP DRAIN DIMENSIONS ARE AS PER MANUFACTURER'S DETAILS
 - 2) INSTALL STRIP DRAIN AS PER MANUFACTURER'S SPECIFICATIONS
 - 3) GRATE TO HAVE LOAD CLASS AS PER AS3996
 - 4) A STRIP DRAIN OF EQUIVALENT SIZE AND LOAD CLASS MAY BE USED IF NECESSARY



DETAIL AC2
ACO KS200 GRATED STRIP DRAIN
(TRAFFICABLE)

SCALE: 1:10 (A1) 1:20 (A3)

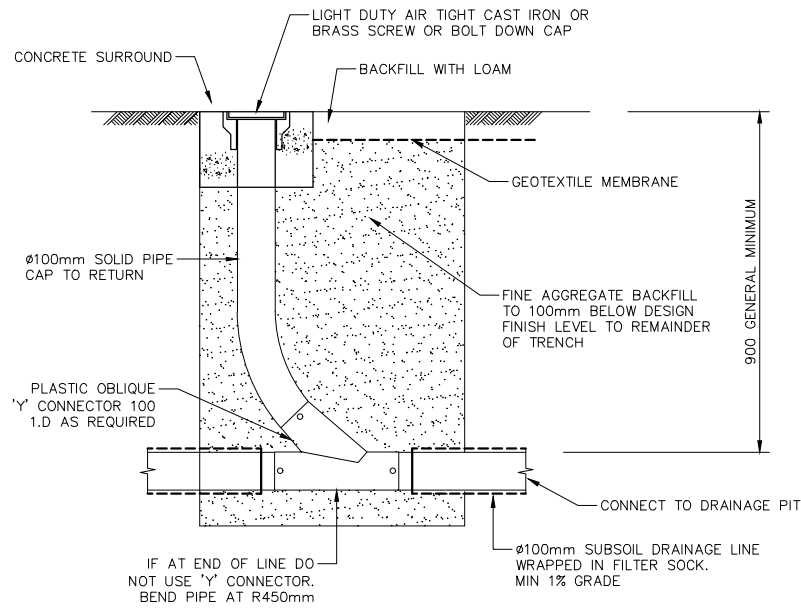
- NOTES:
- 1) STRIP DRAIN DIMENSIONS ARE AS PER MANUFACTURER'S DETAILS
 - 2) INSTALL STRIP DRAIN AS PER MANUFACTURER'S SPECIFICATIONS
 - 3) GRATE TO HAVE LOAD CLASS AS PER AS3996
 - 4) A STRIP DRAIN OF EQUIVALENT SIZE AND LOAD CLASS MAY BE USED IF NECESSARY



ON-SITE DETENTION WARNING SIGN

NOT TO SCALE

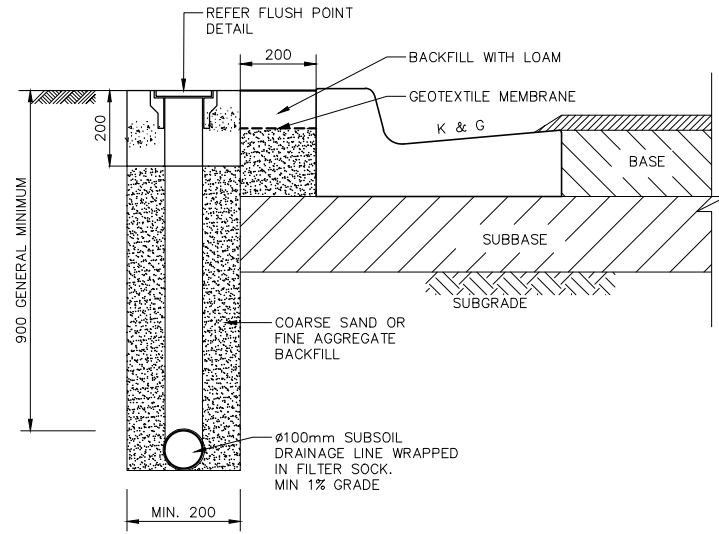
- NOTES:
- 1) SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION OF EACH DETENTION BASIN.
 - 2) COLOURS:
 - TRIANGLE AND "WARNING" - RED
 - WATER - BLUE
 - FIGURE AND OTHER LETTERING - BLACK



DETAIL FP
TYPICAL FLUSHING POINT DETAIL

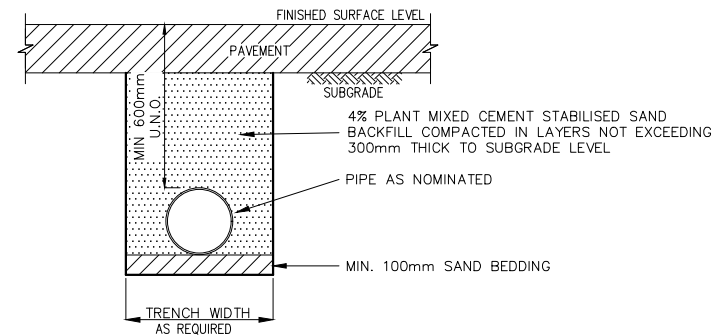
SCALE: 1:10 (A1) 1:20 (A3)

- NOTE:
- 1) PROVIDE FLUSH POINT AT START OF SUBSOIL DRAINAGE LINES, AT SHARP CHANGES IN DIRECTION, AND AT 60m CTS.
 - 2) DRAWING AS PER WWCC EDS 02.11 REQUIREMENTS.

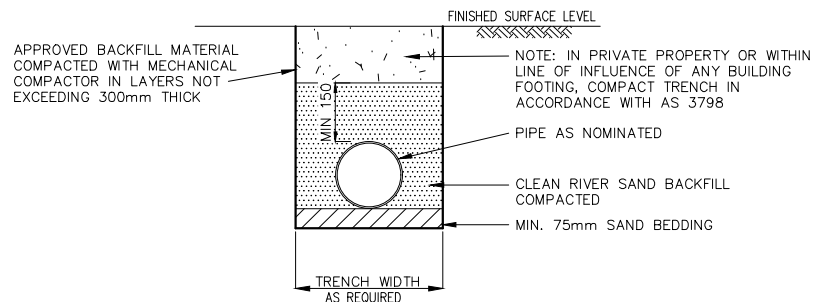


DETAIL SD1
TYPICAL SUBSOIL DRAINAGE DETAIL

SCALE: 1:10 (A1) 1:20 (A3)



DETAIL BF1
STORMWATER PIPELINE BACKFILL FOR PIPES UNDER ROADS



DETAIL BF2
TRENCH BACKFILL FOR PIPELINE IN NON-TRAFFICABLE AREAS

NOT FOR CONSTRUCTION



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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



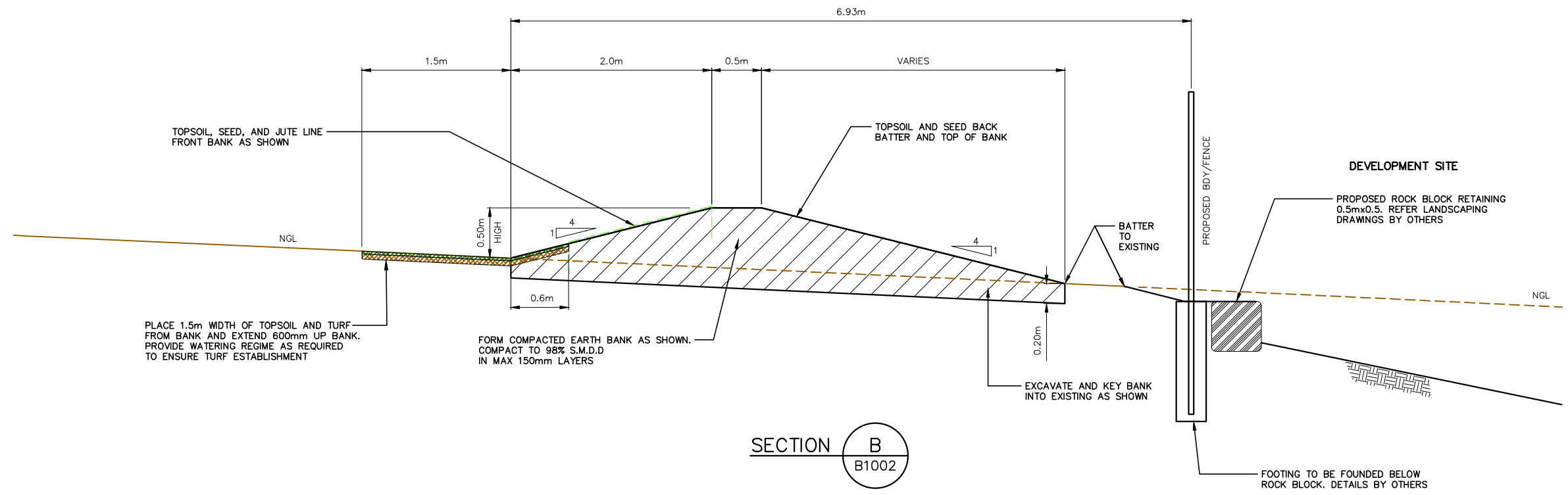
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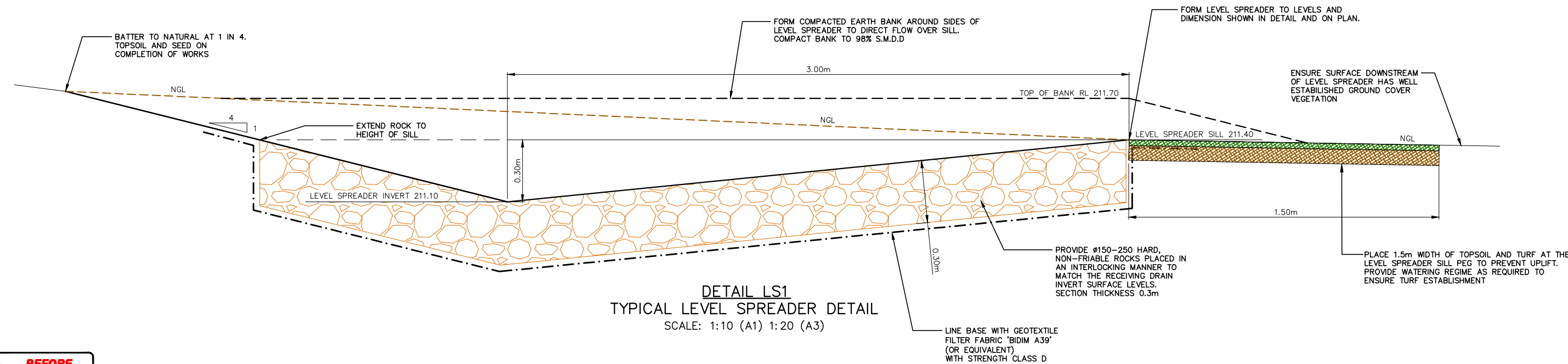
Sheet Title: STORMWATER DETAILS 2/5	Client: COLLIERS INTERNATIONAL	Checked:
Scale: 1:10 (A1) 1:20 (A3) OR AS SHOWN	Approved:	
Design: S.X	Drawn: N.T	Date: MAR 2024

Project Number: 230728	Sheet Number: DE2002	Revision Number: P17
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SECTION B
B1002

TYPICAL SECTION THRU DEFLECTION BANK
SCALE: 1:25 (A1) 1:50 (A3)



DETAIL LS1
TYPICAL LEVEL SPREADER DETAIL
SCALE: 1:10 (A1) 1:20 (A3)



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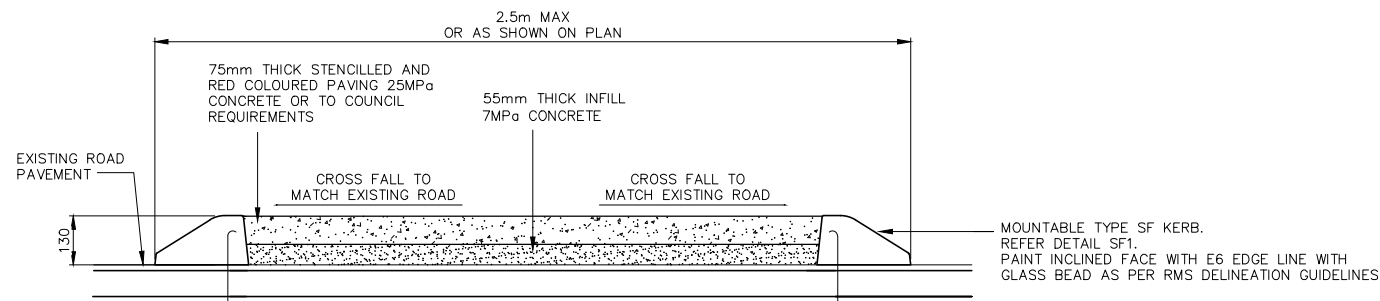
P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



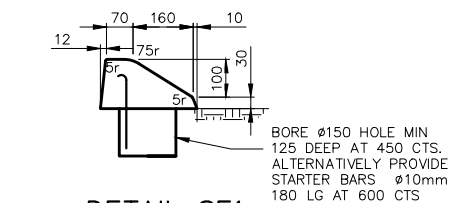
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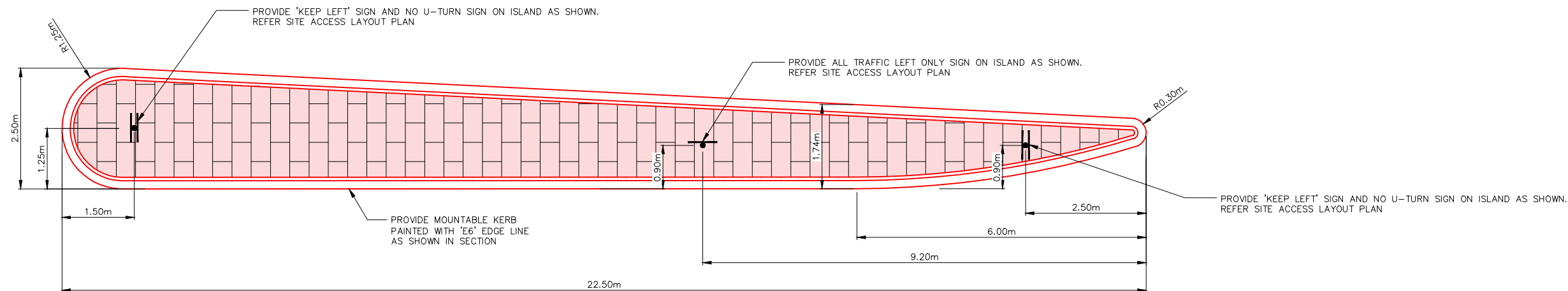
Sheet Title: STORMWATER DETAILS 4/5				Project Number:	
Client: COLLIERS INTERNATIONAL			Checked:		230728
Scale: AS SHOWN			Approved:		
Design: S.X	Drawn: N.T	Date: MAR 2024	Sheet Number:		Revision Number:
			DE2004		P17



SECTION
SCALE: 1:10 (A1) 1:20 (A3)

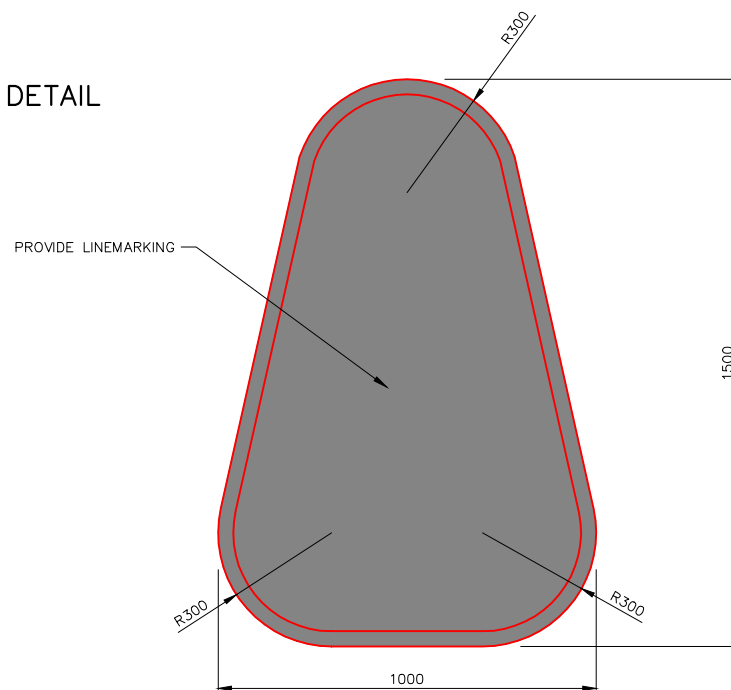


DETAIL SF1
MOUNTABLE KERB
(SF) TYP.
CONCRETE TO BE MIN 25MPa

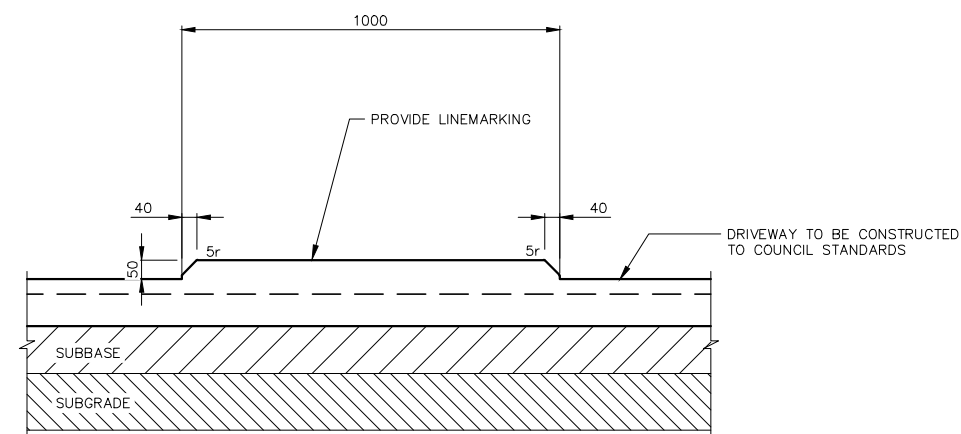


PLAN
SCALE: 1:50 (A1) 1:100 (A3)

DETAIL R1
TYPICAL RAISED ISLAND DETAIL



PLAN
SCALE: 1:10 (A1) 1:20 (A3)



CROSS SECTION
SCALE: 1:10 (A1) 1:20 (A3)

DETAIL R2
TYPICAL DRIVEWAY ISLAND DETAIL



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P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
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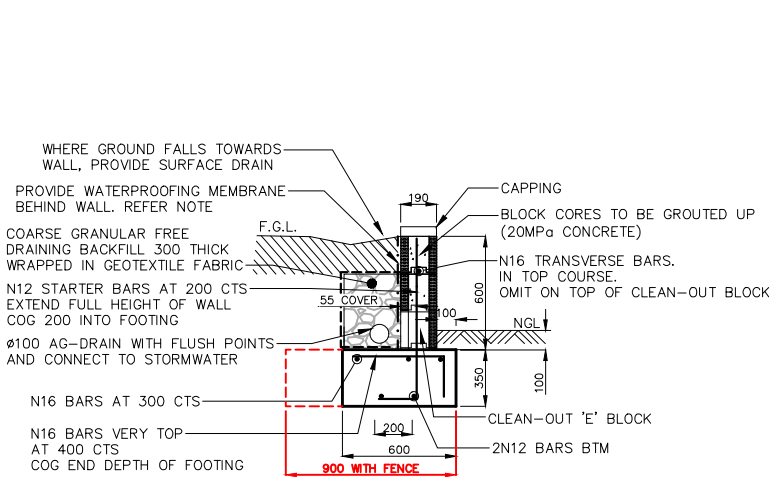
Project:
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FARRER ROAD
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: **STORMWATER DETAILS 5/5**
Client: COLLIERS INTERNATIONAL
Scale: AS SHOWN
Design: S.X
Drawn: N.T
Date: MAR 2024

Checked:
Approved:

Project Number:
230728
Sheet Number:
DE2005
Revision Number:
P17

NOT FOR CONSTRUCTION

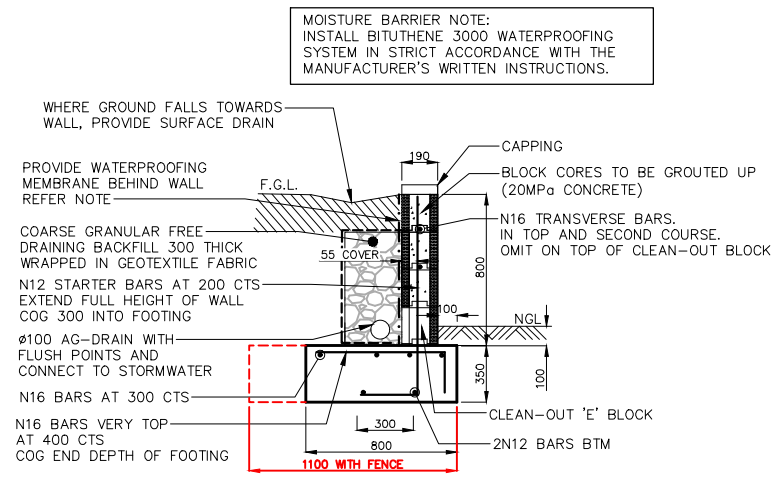


DETAIL RW1

**BLOCKWORK CANTILEVERED RETAINING WALL
UP TO MAX 600mm HIGH**

NOTE:

1. TEMPORARILY PROP WALL UNTIL CONCRETE INFILL HAS CURED.
2. PROVIDE WATERPROOFING SYSTEM AT BACK OF WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

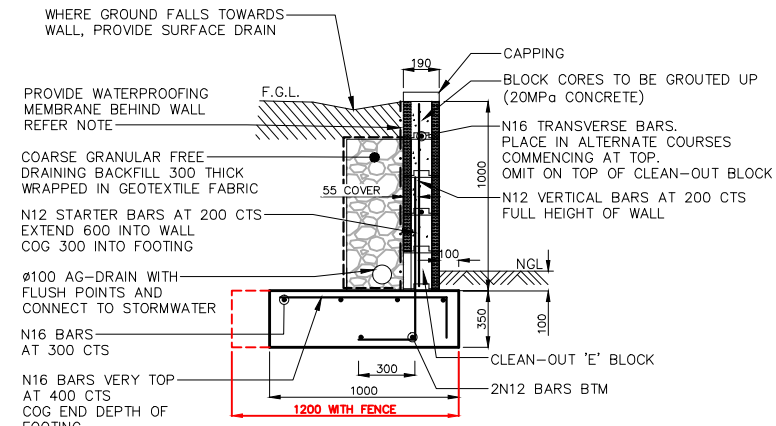


DETAIL RW2

**BLOCKWORK CANTILEVERED RETAINING WALL
UP TO MAX 800mm HIGH**

NOTE:

1. TEMPORARILY PROP WALL UNTIL CONCRETE INFILL HAS CURED.
2. PROVIDE WATERPROOFING SYSTEM AT BACK OF WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

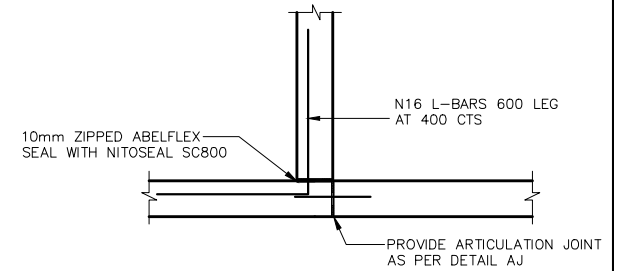
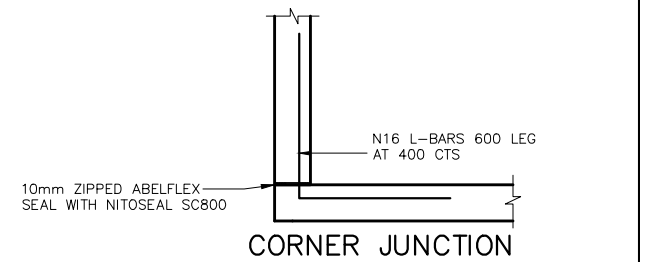


DETAIL RW3

**BLOCKWORK CANTILEVERED RETAINING WALL
UP TO MAX 1000mm HIGH**

NOTE:

1. TEMPORARILY PROP WALL UNTIL CONCRETE INFILL HAS CURED.
2. PROVIDE WATERPROOFING SYSTEM AT BACK OF WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.



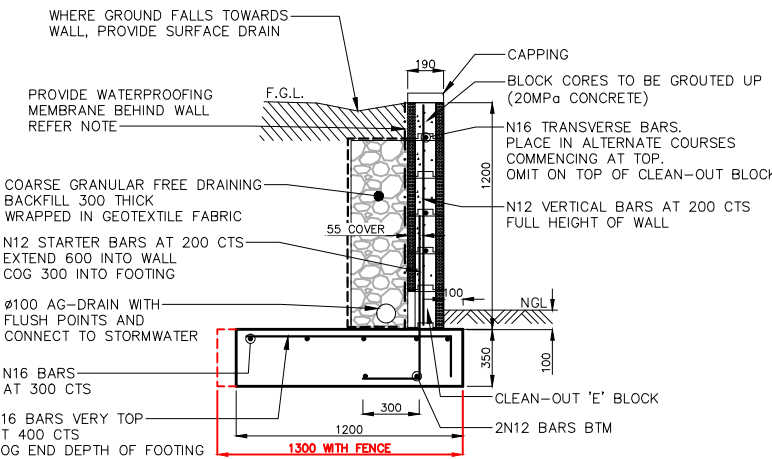
T-JUNCTION

DETAIL R.J

**TYPICAL RETAINING WALL
JUNCTION DETAILS**

SOIL BENEATH WALLS TO BE SUITABLE NATURAL OR CERTIFIED CONTROLLED FILL MATERIAL.
MINIMUM ALLOWABLE BEARING 100 kPa REQUIRED.
TO BE CONFIRMED BY GEOTECHNICAL ENGINEER ON SITE DURING CONSTRUCTION

PROVIDE 50mm COVER TO ALL REINFORCEMENT U.N.O

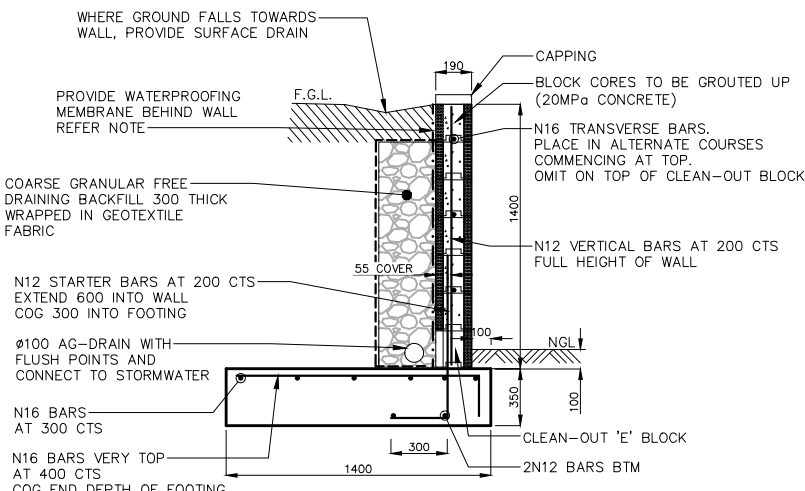


DETAIL RW4

**BLOCKWORK CANTILEVERED RETAINING WALL
UP TO MAX 1200mm HIGH**

NOTE:

1. TEMPORARILY PROP WALL UNTIL CONCRETE INFILL HAS CURED.
2. PROVIDE WATERPROOFING SYSTEM AT BACK OF WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

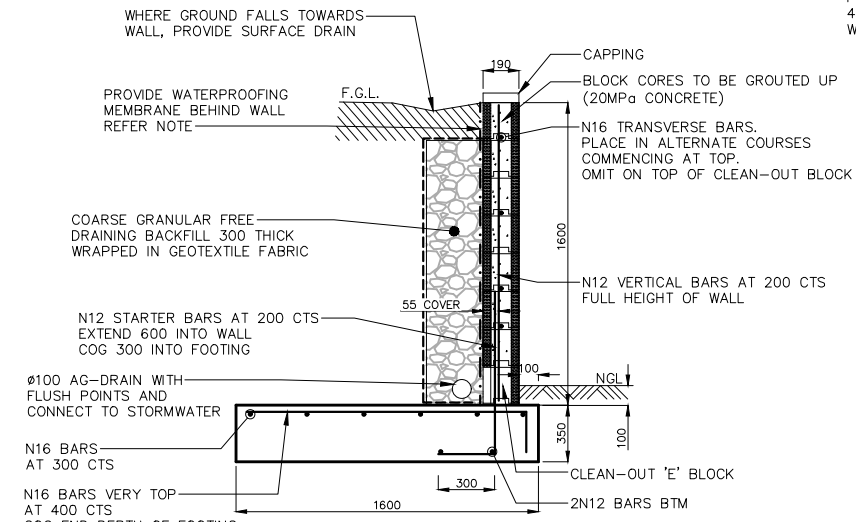


DETAIL RW5

**BLOCKWORK CANTILEVERED RETAINING WALL
UP TO MAX 1400mm HIGH**

NOTE:

1. TEMPORARILY PROP WALL UNTIL CONCRETE INFILL HAS CURED.
2. PROVIDE WATERPROOFING SYSTEM AT BACK OF WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

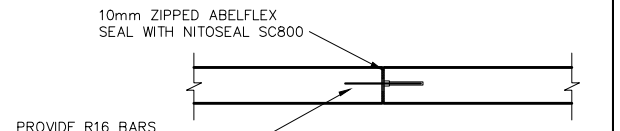


DETAIL RW6

**BLOCKWORK CANTILEVERED RETAINING WALL
UP TO MAX 1600mm HIGH**

NOTE:

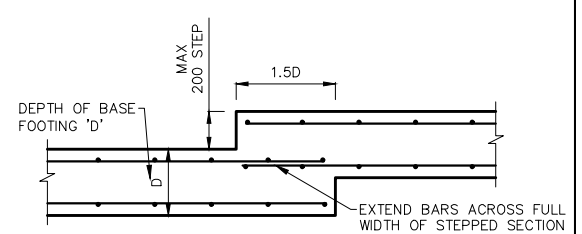
1. TEMPORARILY PROP WALL UNTIL CONCRETE INFILL HAS CURED.
2. PROVIDE WATERPROOFING SYSTEM AT BACK OF WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.



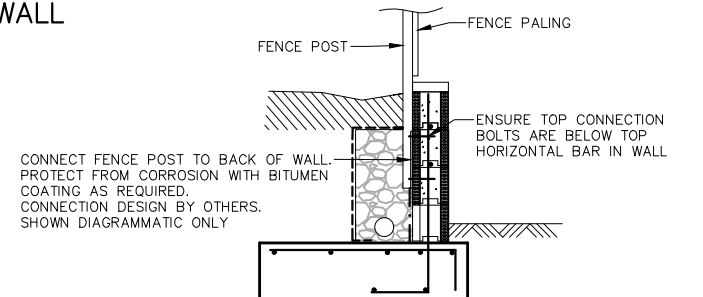
DETAIL A.J

TYPICAL ARTICULATION JOINT

PROVIDE ARTICULATION JOINT AT MAX 9m CTS



**ACCEPTABLE METHODS OF
STEPPING RETAINING WALL FOOTINGS**



**FENCE POST TO RETAINING WALL
CONNECTION DETAIL
DIAGRAMMATIC ONLY**

NOT FOR CONSTRUCTION



UNDER GROUND SERVICES ARE APPROXIMATE ONLY.
CONTACT RELEVANT AUTHORITY PRIOR TO ANY EXCAVATION OR CONSTRUCTION.

FENCE NOTES:

1. FENCES PLACED WITHIN VICINITY OF RETAINING WALLS MUST NOT EXCEED THE FOLLOWING
 - 1.1. MAX 2.1m HIGH
 - 1.2. MAX 2m FENCE POST SPACING
2. FENCES ARE TO BE PLACED BEHIND WALL AND NOT TO BE CONNECTED TO TOP OF WALL.
3. REFER 'FENCE POST TO RETAINING WALL CONNECTION DETAIL' FOR DIAGRAM OF POSSIBLE CONNECTION ARRANGEMENT. OTHER ARRANGEMENTS MAY BE USED, SUBJECT TO DETAILED DESIGN TO SUIT FENCE (DETAILS BY OTHERS)

P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



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ST. MARY'S RAINBOW PRESCHOOL
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CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: **RETAINING WALL DETAILS**
Client: COLLIERS INTERNATIONAL
Scale: AS SHOWN
Design: S.X Drawn: N.T Date: MAR 2024

Checked: Approved: Project Number: **230728**
Sheet Number: DE3001 Revision Number: P17

SITE MANAGEMENT NOTES

- CONTRACTOR TO PLAN DAYS ACTIVITIES TO ENSURE THAT TRENCHES EXCAVATED ARE BACKFILLED ON THE SAME DAY AND THE FINISHED SURFACE TOPSOILED AND SEEDED ETC. AS SPECIFIED. CONTRACTOR TO ENSURE THAT ALL TRENCHES ARE WHEEL ROLLED TO PREVENT SETTLEMENT
- WORKS THAT DON'T COMPLY WITH THE LAND AND WATER MANAGEMENT PLAN MAY RESULT IN A STOP WORK ORDER ON THE PROJECT. THIS STOP WORK ORDER WILL NOT BE LIFTED UNTIL THE NOMINATED WORKS HAVE BEEN RECTIFIED. NO EXTENSION TO THE CONTRACT PERIOD WILL BE ALLOWED FOR FOLLOWING THE STOP WORK ORDER.
- IF SITE CONDITIONS ARE SUCH THAT VEHICLE MOVEMENTS WILL DAMAGE THE EXISTING LAND COVER, REFER TO THE SUPERINTENDENT FOR INSTRUCTION.
- ALL DISTURBED AREAS TO HAVE 75 MIN TOPSOIL. IF COMPACTED, RIP TO LOOSEN AND SEED AS SPECIFIED.
- WHERE CONTRACTOR DISTURBS AREAS WHICH ARE NOT REQUIRED FOR THE EXECUTION OF THE WORKS, THE CONTRACTOR WILL STABILIZE THE AREAS AT HIS OWN COST TO THE SATISFACTION OF THE SUPERINTENDENT. LIMIT OF WORKS 3m FROM BATTER LINE OR 5m FROM PIPE TRENCH.
- EROSION CONTROL
 - CONTRACTOR TO CONSIDER POTENTIAL FUTURE EROSION PROBLEMS IN ALL STAGES OF WORKS. IF THERE IS A POTENTIAL PROBLEM THAT HAS NOT ALREADY BEEN ACCOUNTED FOR, XEROS PICCOLO CONSULTING ENGINEERS ARE TO BE CONTACTED
 - VEGETATION TO BE PRESERVED AS MUCH AS POSSIBLE. WHERE SEEDLINGS ARE GROWING ON STEEP BATTERS PROVIDE MULCHES TO CONSERVE MOISTURE AND PROMOTE GROWTH.
 - PROVIDE SILT FENCES OR STRAW BALES AS SHOWN ON PLANS OR AS NOMINATED BY THE SUPERINTENDENT
 - SILT FENCES TO BE MOVED DURING CONSTRUCTION TO SUIT LOCATION OF CURRENT WORKS
- TOPSOIL STOCKPILES SITES TO BE SEEDED WITH PERENNIAL RYE GRASS AT 25KG/HA AND RYE CORN AT 5KG/HA TO PREVENT SOIL MIGRATION.
- ALL COMPLETED BATTERS, SWALE DRAINS, DEFLECTION BANKS ETC TO BE LIGHTLY RIPPED 50mm DEEP, COVERED WITH 75 MIN TOPSOIL AND SEEDED AS SPECIFIED. ON COMPLETION PROVIDE 1 PASS WITH PAD FOOT ROLLER.
- AS ASPECTS OF WORK ARE COMPLETED, TOPSOIL AND SEED AS DETAILED WITHIN 3 WORKING DAYS
- SURPLUS SPOIL STOCKPILE LOCATION TO BE DETERMINED ON SITE.

CONSTRUCTION SEQUENCE

- BEFORE/DURING STRIPPING OF TOPSOIL
 - CONSTRUCT DEFLECTION BANKS AROUND TOPSOIL STOCKPILE AND ASSOCIATED SILT FENCES.
 - CONSTRUCT 200 HIGH PUSH UP BANKS AND ASSOCIATED SILT FENCES.
- CONSTRUCTION OF 300 HIGH DEFLECTION BANKS AND BUNDING FORMED FROM BULK EARTHWORKS AND ASSOCIATED SILT FENCES CONSTRUCTED AS DETAILED.
- STOCKPILE TO BE SEEDED AS SPECIFIED WITHIN 7 WORKING DAYS.
- AFTER CONSTRUCTION OF DRAINAGE LINES DISTURBED AREAS TO BE RECTIFIED AS DETAILED WITHIN 7 DAYS OF BACKFILLING.
- REMOVABLE STRAW BALE SILT FENCE TO BE AVAILABLE ON SITE FOR PROTECTION OF THE SITE IF RAIN IMMINENT.
- SERVICES TO BE INSTALLED PRIOR TO TOPSOILING AND SEEDING OF BATTERS AND FOOTPATHS.

REHABILITATION & REGENERATION NOTES

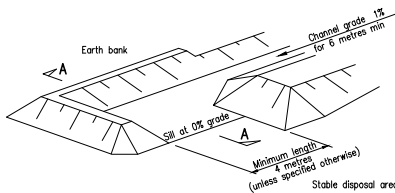
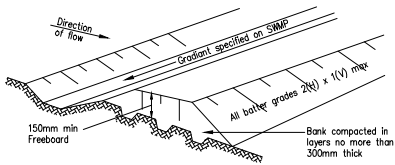
- PREPARE AREA TO BE REHABILITATED AND REGENERATED AS PER SPECIFICATIONS
- AREAS SHOULD BE RESHAPED TO BLEND IN WITH NATURAL LANDSCAPE AS MUCH AS POSSIBLE. STABILIZE WHERE REQUIRED
 - SITE TO BE SHAPED TO BE FREE DRAINING WHERE POSSIBLE.
 - TYNE COMPACTED AREAS TO IMPROVE 'ROUGHNESS' AT THE SEED BED IN PREPARATION FOR TOPSOIL. DEEP RIPPING MAY BE REQUIRED FOR HARD PAVEMENTS.
 - REDUCE ALL SLOPES TO A GRADIENT OF 1:3 OR LESS. BENCH IN THE AREAS WHERE SLOPE LENGTHS EXCEED 15m. WHERE BENCHING IS NOT PRACTICAL PROVIDE CONTOUR BANK MIN 500mm HIGH.
 - SPREAD TOP SOIL AND LEAVE WITH ROUGH SURFACE. CARE TO BE TAKEN TO ENSURE THAT TOP SOIL IS NOT TOO WET AS THIS WILL NOT PERFORM ADEQUATELY.
 - IF ADDITIONAL CHUTES ARE REQUIRED CONTACT XEROS PICCOLO.

SEEDING NOTES

- SEEDING TO PROVIDED AS SPECIFIED ON PLANS
- SEED IS TO BE PLANTED AS PER STANDARD PRACTICE IN REGARDS TO WATERING AND PLANTING SEASON. USE HIGH QUALITY SEEDS THAT DON'T CONTAIN NOXIOUS WEEDS.
- CONTRACTOR TO TAKE INTO ACCOUNT SEASON AND WEATHER PRIOR TO SEEDING TO ALLOW SEED THE BEST OPPORTUNITY TO GERMINATE.
- ALL DISTURBED AREAS THAT ARE NOT BEING USED FOR A TRACK OF OTHER PURPOSES ARE TO BE TOPSOILED AND SEEDED.
- PREPARE A SMOOTH SEEDBED AND APPROX. 75mm – 100mm OF TOPSOIL GRADE SMOOTHLY TO REMOVE IRREGULARITIES AND FOOT PRINTS. SEED, FERTILIZE AND WATER.
- WATERING SHOULD START IMMEDIATELY AFTER PLANTING. WATERING SHOULD COMPLY WITH SPECIFICATIONS SUPPLIED WITH APPROVED SEED. WATERING SHOULD VARY DEPENDING ON WEATHER, SEASON AND SOIL CONDITIONS. BUT AS A MINIMUM THE FOLLOWING SHOULD BE DONE.
 - 25mm EVERY SECOND DAY FOR THE FIRST THREE WATERINGS
 - 25mm TWICE A WEEK FOOR THE NEXT THREE WEEKS
 - 25mm OUNCE WEEKLY FOR A FURTHER TWO WEEKS.
- IF BATTER SLOPE OF DISTURBED AREA IS 1 IN 4 OR GREATER PROVIDE JUTE LINING. ALL DEDICATED DRAINAGE PATHS SHALL BE JUTE LINED. REFER JUTE LINING NOTES AND DETAILS

TURFING NOTES

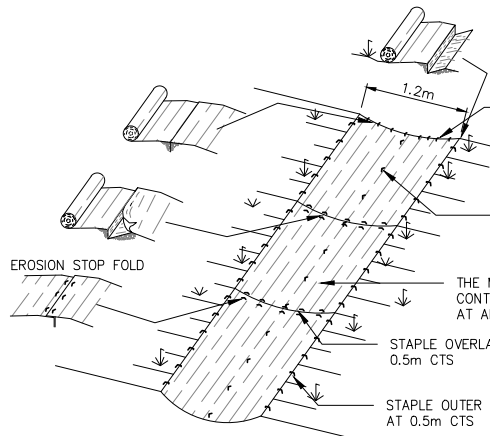
- TURFING TO BE PROVIDED AS SPECIFIED ON PLANS
- PREPARATION
 - REMOVE ANY EXISTING TURF, WEEDS AND DEBRIS FROM ALL AREAS TO BE TURFED. CULTIVATE EXISTING SUBGRADE TO 100mm DEPTH
- TOPSOIL
 - ALL TOPSOIL SHALL COMPLY WITH AS4419 'SOILS FOR LANDSCAPING AND GARDEN USE'.
 - TOPSOIL SHALL BE A SOIL BLEND WITH MAX. 30% SCREENED COMPOSTED ORGANIC MATTER, HYDRAULIC CONDUCTIVITY 15–30cm/hr. PH RANGE TO BE 5–6.5.
 - AFTER APPROVAL OF THE PROPOSED TOPSOIL, DEPOSIT AND SPREAD TOPSOIL TO ACHIEVE 100mm THICKNESS TO ALL DISTURBED AREAS
- TURFING
 - TURF SHALL BE 'KIKUYU' UNLESS OTHERWISE DIRECTED BY A LANDSCAPE ARCHITECT OR SUPERINTENDENT. TURF SHALL BE 'A' GRADE, TYPICAL OF THE SPECIES, FREE FROM ALL PESTS, DISEASES, WEEDS AND OTHER PLANT MATTER.
 - TURF SHALL BE GUARANTEED FREE FROM NUT GRASS, 'CYPERUS ROTUNDUS'.
 - TURF SHALL BE CUT TO A MINIMUM 25mm THICK IN LONG 300m WIDE STRIPS.
- LAYING
 - LAY PIECES OF TURF IN STRAIGHT LINES RUNNING PERPENDICULAR TO THE SLOPE, WITH CROSS JOINTS STAGGERED, AND CLOSE BUTTING.
 - LAY TURF WITH AN EVEN GRADIENT, FREE FROM LUMPS AND DEPRESSIONS AND NOT ABLE TO POND WATER. ENSURE THAT NEW TURF FINISHES FLUSH WITH EXISTING GRASS OR TURF.
 - TAMP DOWN AND FILL ALL JOINTS WITH TOP DRESSING. TOP DRESSING IS TO BE PIT SAND TO COMPLY WITH AS 4419. SPREAD SAND EVENLY OVER SURFACE OF GRASS IN LAYERS OF NOT MORE THAN 10mm. DO NOT BURY GRASS.
- TOP DRESSING
 - WHEN TURFED AREAS HAVE BECOME ESTABLISHED AND IMMEDIATELY AFTER THE FIRST CUT, TOP DRESS TURF WITH 10mm LAYER OF TOP DRESSING TO AS4419.
 - DO NOT TOP DRESS DURING WINTER MONTHS UNLESS DIRECTED BY SUPERINTENDENT
- PROTECTION – ALL NEW TURF SHALL BE PROTECTED FROM TRAMPLING BY THE ERECTION OF BARRIERS.



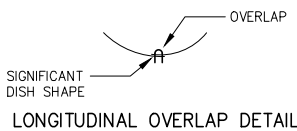
LEVEL SPREADER (OR SILL)

JUTE LINING NOTES

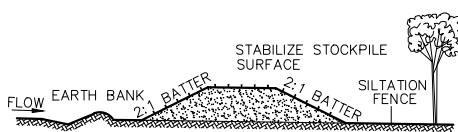
- JUTE LINING TO BE PROVIDED AS SPECIFIED ON PLANS
- CONTRACTOR TO COMPLY WITH ALL MANUFACTURES REQUIREMENTS OF THE SELECTED PRODUCT BUT MUST MEET THE BELOW REQUIREMENTS AS A MINIMUM.
- REFER TO APPROVED PLANS AND NOTES FOR THE LOCATION AND EXTENT OF WORKS REQUIRED.
- SOIL SURFACE IRREGULARITIES AND ROCKS ON SURFACE ARE TO BE REMOVED.
- PREPARE A SMOOTH SEEDBED AND APPROX. 75mm OF TOPSOIL GRADE SMOOTHLY TO REMOVE IRREGULARITIES AND FOOT PRINTS. COMPLETE ALL SEEDING, FERTILIZING AND WATERING PRIOR TO LAYING MATTING
- PREFERABLY STARTING AT THE DOWN STREAM END, ALIGN FABRIC ROLLS IN THE DIRECTION OF THE FLOW. IF THE AREA IS SUBJECT TO MULTIPLE FLOWS, ALIGN WITH DOMINANT FLOW.
- WHEN SPREADING THE FABRIC DO NOT STRETCH THE TEXTILE MESH. THE BLANKETS MUST BE IN GOOD CONTACT WITH GROUND AT ALL POINTS.
- FABRIC BLANKETS TO BE STAPLED AT 1m CTS IN EXPOSED AREAS AND 0.5m CTS ALONG ALL EDGES
- THE UPSTREAM END OF TOP SHEETS SHALL BE PLACED IN A 300mm DEEP TRENCH, STAPLED AT 0.15m CTS, BURIED AND TAMPED. REFER DETAIL
- MINIMUM EVERY THIRD SHEET TO BE PLACED IN A 300mm DEEP TRENCH, STAPLED AT 0.15m CTS, BURIED AND TAMPED. REFER DETAIL
- OVERLAP ENDS BY 300mm WITH THE UPSTREAM SHEET PLACED OVER THE DOWNSTREAM SHEET. STAPLE AT 0.5m CTS
- STAPLES SHOULD BE A "U" SHAPE 8 GAUGE WIRE 100mm WIDE WITH 150–300mm PENETRATION LENGTH
- WHEREVER THE BLANKET DOES NOT TOUCH THE GROUND ADDITIONAL STAPLES MUST BE PLACED.



SINGLE LAYER

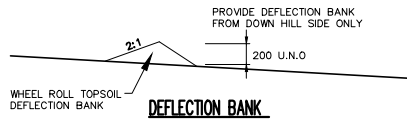


LONGITUDINAL OVERLAP DETAIL

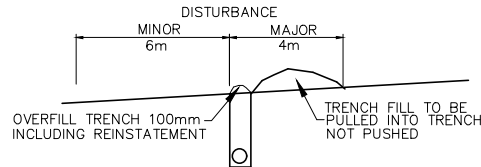


STOCKPILE SD 4–1

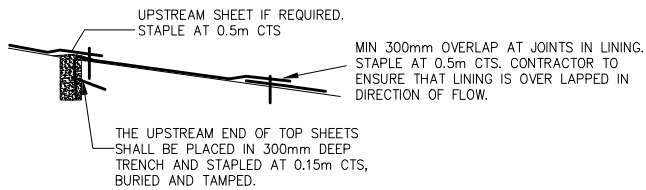
- CONSTRUCTION NOTES
- LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS & HAZARD AREAS.
 - CONSTRUCT ON THE CONTOUR AS A LOW, FLAT, ELONGATED MOUND.
 - WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
 - REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP.
 - CONSTRUCT EARTH BANK (STANDARD DRAWING 5–2) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE & A SEDIMENT FENCE (STANDARD DRAWING 6–8) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.



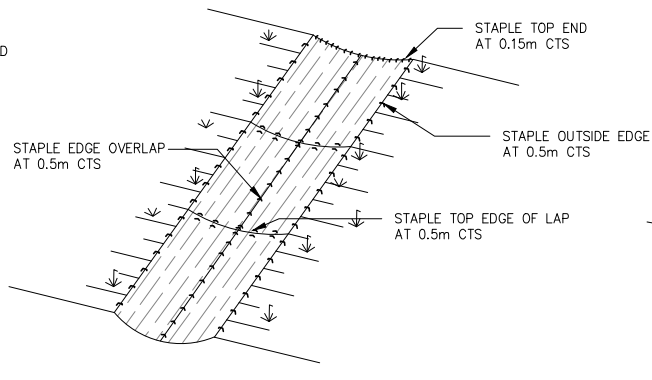
DEFLECTION BANK



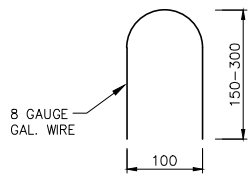
TRENCH DISTURBANCE



TRANSVERSE OVERLAP DETAIL

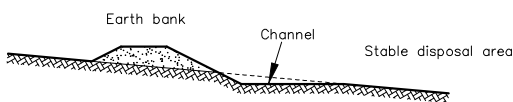


MULTIPLE LAYERS



STAPLE DETAIL

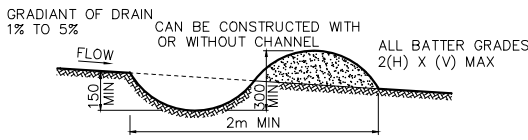
JUTE LINING DETAIL



SECTION A–A
EARTH BANK(HIGH FLOW) SD 5–3
FOR CATCHMENT > 2ha

CONSTRUCTION NOTES

- CONSTRUCT ALONG GRADIENT AS SPECIFIED.
- AVOID REMOVING TREES & SHRUBS IF POSSIBLE.
- DRAINS TO BE OF PARABOLIC OR TRAPEZOIDAL CROSS SECTION AS OPPOSED TO V-SHAPE.
- EARTH BANKS TO BE ADEQUATELY COMPACTED IN ORDER TO PREVENT FAILURE.
- PERMANENT OR TEMPORARY STABILISATION OF THE EARTH BANK TO BE COMPLETED WITHIN 10 DAYS OF CONSTRUCTION.
- ALL OUTLETS FROM DISTURBED LANDS ARE TO FEED INTO A SEDIMENT BASIN OR SIMILAR.
- DISCHARGE RUNOFF COLLECTED FROM UNDISTURBED LANDS ONTO EITHER A STABILISED OR AN UNDISTURBED DISPOSAL SITE WITHIN THE SAME SUBCATCHMENT AREA FROM WHICH THE WATER ORIGINATED
- COMPACT BANK WITH A SUITABLE IMPLEMENT IN SITUATIONS WHERE THEY ARE REQUIRED TO FUNCTION FOR MORE THAN FIVE DAYS.
- EARTH BANKS TO BE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT WILL IMPEDE NORMAL FLOW.

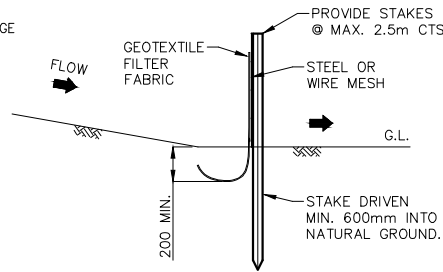


NOTE: ONLY TO BE USED AS TEMPORARY BANK WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES

EARTH BANK(LOW FLOW) SD 5–5
FOR CATCHMENT < 2ha

CONSTRUCTION NOTES

- CONSTRUCT WITH GRADIENT OF 1 PER CENT TO 5 PER CENT.
- AVOID REMOVING TREES & SHRUBS IF POSSIBLE.
- DRAINS TO BE OF CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTION NOT V-SHAPE.
- EARTH BANKS TO BE ADEQUATELY COMPACTED IN ORDER TO PREVENT FAILURE.
- PERMANENT OR TEMPORARY STABILISATION OF THE EARTH BANK TO BE COMPLETED WITHIN 10 DAYS OF CONSTRUCTION.
- ALL OUTLETS FROM DISTURBED LANDS ARE TO FEED INTO A SEDIMENT BASIN OR SIMILAR.
- DISCHARGE RUNOFF COLLECTED FROM UNDISTURBED LANDS ONTO EITHER A STABILISED OR AN UNDISTURBED DISPOSAL SITE WITHIN THE SAME SUBCATCHMENT AREA FROM WHICH THE WATER ORIGINATED
- COMPACT BANK WITH A SUITABLE IMPLEMENT IN SITUATIONS WHERE THEY ARE REQUIRED TO FUNCTION FOR MORE THAN FIVE DAYS.
- EARTH BANKS TO BE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT WILL IMPEDE NORMAL FLOW.



TYP. SEDIMENT CONTROL
FENCE DETAIL SD 6–8

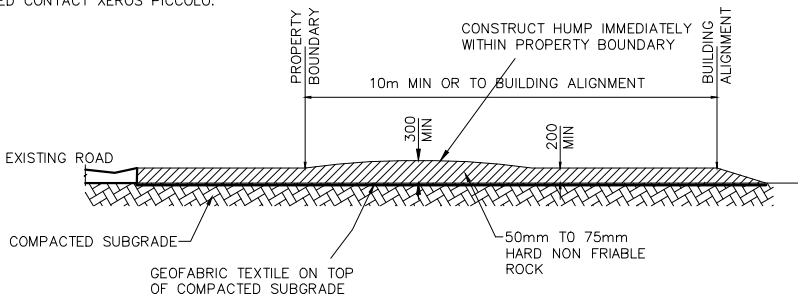
NOTE: THE FOLLOWING CONDITIONS MUST NOT BE EXCEEDED WITHIN THE CONTRIBUTING AREA:
DRAINAGE AREA = 0.6ha
SLOPE GRADIENT = 1:2
SLOPE LENGTH = 60m

NOT FOR CONSTRUCTION



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STABILIZED ACCESS POINT SD 6–14



P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
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Project:
PROPOSED CIVIL WORKS
ST. MARY'S RAINBOW PRESCHOOL
FARRER ROAD
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: SEDIMENT AND EROSION CONTROL DETAILS

Client: COLLIERS INTERNATIONAL

Scale: AS SHOWN

Design: S.X

Drawn: N.T

Date: MAR 2024

Checked:

Approved:

Project Number:

230728

Sheet Number:

DE4001

Revision Number:

P17