PROPOSED WOOLWORTHS SUPERMARKET
108-116 INGLEBURN RD, LEPPINGTON NSW
DA - CIVIL ENGINEERING WORKS

GENERAL NOTES:

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH CAMDEN COUNCIL'S SPECIFICATION. CONTRACTOR TO OBTAIN AND RETAIN A COPY ON SITE DURING THE COURSE OF THE WORKS.
2. ALL NEW WORKS ARE TO MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS, AND MARRY IN A 'WORKMANLIKE' MANNER.
3. THE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL SERVICES WITH EACH RELEVANT AUTHORITY. ANY DAMAGE TO SERVICES SHALL BE RECTIFIED BY THE CONTRACTOR OR THE RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE. SERVICES SHOWN ON THESE PLANS ARE ONLY THOSE EVIDENT AT THE TIME OF SURVEY OR AS DETERMINED FROM SERVICE DIAGRAMS. HENRY AND HYMAS CONSULTING PTY. LTD. CANNOT GUARANTEE THE INFORMATION SHOWN NOR ACCEPT ANY RESPONSIBILITY FOR INACCURACIES OR INCOMPLETE DATA.
4. SERVICES & ACCESSES TO THE EXISTING PROPERTIES ARE TO BE MAINTAINED IN WORKING ORDER AT ALL TIMES DURING CONSTRUCTION.
5. ADJUST EXISTING SERVICE COVERS TO SUIT NEW FINISHED LEVELS TO RELEVANT AUTHORITY REQUIREMENTS WHERE NECESSARY.
6. REINSTATE AND STABILISE ALL DISTURBED LANDSCAPED AREAS.
7. MINIMUM GRADE OF SUBSOIL SHALL BE 0.5% (1:200) FALL TO OUTLETS.
8. ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS, EROSION AND SEDIMENTATION CONTROL PLAN AND CAMDEN COUNCIL'S REQUIREMENTS WHERE APPLICABLE.
9. CONTRACTOR TO CHECK AND CONFIRM SITE DRAINAGE CONNECTIONS ACROSS THE VERGE PRIOR TO COMMENCEMENT OF SITE DRAINAGE WORKS.
10. PROPERTIES AFFECTED BY THE WORKS ARE TO BE NOTIFIED IN ADVANCE WHERE DISRUPTION TO EXISTING ACCESS IS LIKELY.

EXISTING SERVICES & FEATURES

1. THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA OR AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
2. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
3. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF HIS PROGRAM FOR THE RELOCATION/ CONSTRUCTION OF TEMPORARY SERVICES.
4. CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN SUPPLY TO EXISTING BUILDING'S REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED, THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
5. INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL FROM THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
6. EXISTING SERVICES, BUILDINGS, EXTERNAL STRUCTURES AND TREES SHOWN ON THESE DRAWINGS ARE EXISTING FEATURES PRIOR TO ANY DEMOLITION WORKS.
7. EXISTING SERVICES UNLESS SHOWN ON SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE A 'DIAL BEFORE YOU DIG' SEARCH AND TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
8. ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN 80Ø uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY THE SURVEYOR SPECIFIED IN THE TITLE BLOCK.
THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. HENRY AND HYMAS PTY. LTD. DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT HENRY AND HYMAS PTY. LTD. THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM ORIGINAL SURVEY DOCUMENTS.

ORIGIN OF LEVELS	PM44283 RL85.68
DATUM	A.H.D.
CONTOUR INTERVAL	0.25m

LOCALITY SKETCH
NTS

DRAWING SCHEDULE

19162_DA_C000	COVER SHEET, DRAWING SCHEDULE, NOTES AND LOCALITY SKETCH
19162_DA_C100	OVERALL PLAN
19162_DA_C101	DETAIL PLAN, SHEET 1 OF 3
19162_DA_C102	DETAIL PLAN, SHEET 2 OF 3
19162_DA_C103	DETAIL PLAN, SHEET 3 OF 3
19162_DA_C120	ROAD DETAILS - TYPICAL ROAD CROSS SECTIONS
19162_DA_C130	SERVICE ROAD - INTERIM, LONGITUDINAL SECTIONS
19162_DA_C135	ROAD CROSS SECTIONS - RICKARD ROAD SECTIONS
19162_DA_C136	ROAD CROSS SECTIONS - INGELBURN ROAD, SHEET 1 OF 2
19162_DA_C137	ROAD CROSS SECTIONS - INGELBURN ROAD, SHEET 2 OF 2
19162_DA_C150	OVERALL PLAN - FUTURE CONNECTION
19162_DA_C151	DETAIL PLAN - FUTURE CONNECTION, SHEET 1 OF 2
19162_DA_C152	DETAIL PLAN - FUTURE CONNECTION, SHEET 2 OF 2
19162_DA_C180	FUTURE ROAD CONNECTION - LONGITUDINAL SECTION
19162_DA_C200	STORMWATER MISCELLANEOUS DETAILS AND PIT LID SCHEDULE
19162_DA_C201	OSD TANK PLAN & SECTION
19162_DA_C202	WATER QUALITY PLAN & DETAILS
19162_DA_C203	WATER QUALITY PLAN & DETAILS, SERVICE LANES
19162_DA_C205	CULVERT TYPICAL SECTION
19162_DA_C250	STORMWATER CATCHMENT PLAN - SITE
19162_DA_C255	STORMWATER CATCHMENT PLAN - OVERALL
19162_DA_C300	RETAINING WALL SECTIONS
19162_DA_SE01	SEDIMENT AND EROSION CONTROL PLAN
19162_DA_SE02	SEDIMENT AND EROSION CONTROL TYPICAL DETAILS
19162_DA_BE01	BULK EARTHWORKS CUT/FILL PLAN

SITEWORKS NOTES

1. DATUM A.H.D.
2. ORIGIN OF LEVELS. REFER TO BENCH OR STATE SURVEY MARKS WHERE SHOWN ON PLAN.
3. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
4. ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS & THE DIRECTIONS OF THE SUPERINTENDENT.
5. EXISTING SERVICES UNLESS SHOWN ON SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
6. WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS ACHIEVED.
7. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
8. CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATION IS TO BE UNDERTAKEN OVER TELSTRA OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
9. CONTRACTOR TO OBTAIN AUTHORITY APPROVALS WHERE APPLICABLE.
10. MAKE SMOOTH TRANSITION TO EXISTING SURFACES AND MAKE GOOD.
11. THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE, ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING TO DEVELOPMENT AT THE SITE.
12. TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MINIMUM OF 50mm IN BITUMINOUS PAVING.
13. ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN 80Ø uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.
14. GRADES TO PAVEMENTS TO BE AS IMPLIED BY RL'S ON PLAN . GRADE EVENLY BETWEEN NOMINATED RL'S. AREAS EXHIBITING PONDING GREATER THAN 5mm DEPTH WILL NOT BE ACCEPTED/ UNLESS IN A DESIGNATED SAG POINT.
15. ALL COVERS AND GRATES ETC TO EXISTING SERVICE UTILITIES ARE TO BE ADJUSTED TO SUIT NEW FINISHED SURFACE LEVELS WHERE APPLICABLE

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY PREMISE
DATUM: A.H.D.
ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
07	RE-ISSUED FOR DA ONLY	MS	BH	03.02.2021					
06	RE-ISSUED FOR DA ONLY	MS	BH	17.11.2020					
05	RE-ISSUED FOR DA ONLY	BH	BH	30.09.2020					
04	RE-ISSUED FOR DA ONLY	MS	TC	28.09.2020					
03	RE-ISSUED FOR DA ONLY	MS	TC	25.09.2020					
02	ISSUED FOR DA ONLY	KR	TC	27.03.2020					
01	ISSUED FOR DA ONLY	KR	TC	14.02.2020					

Client
FABCOT PTY LTD

Architect
ClarkeHopkinsClarke

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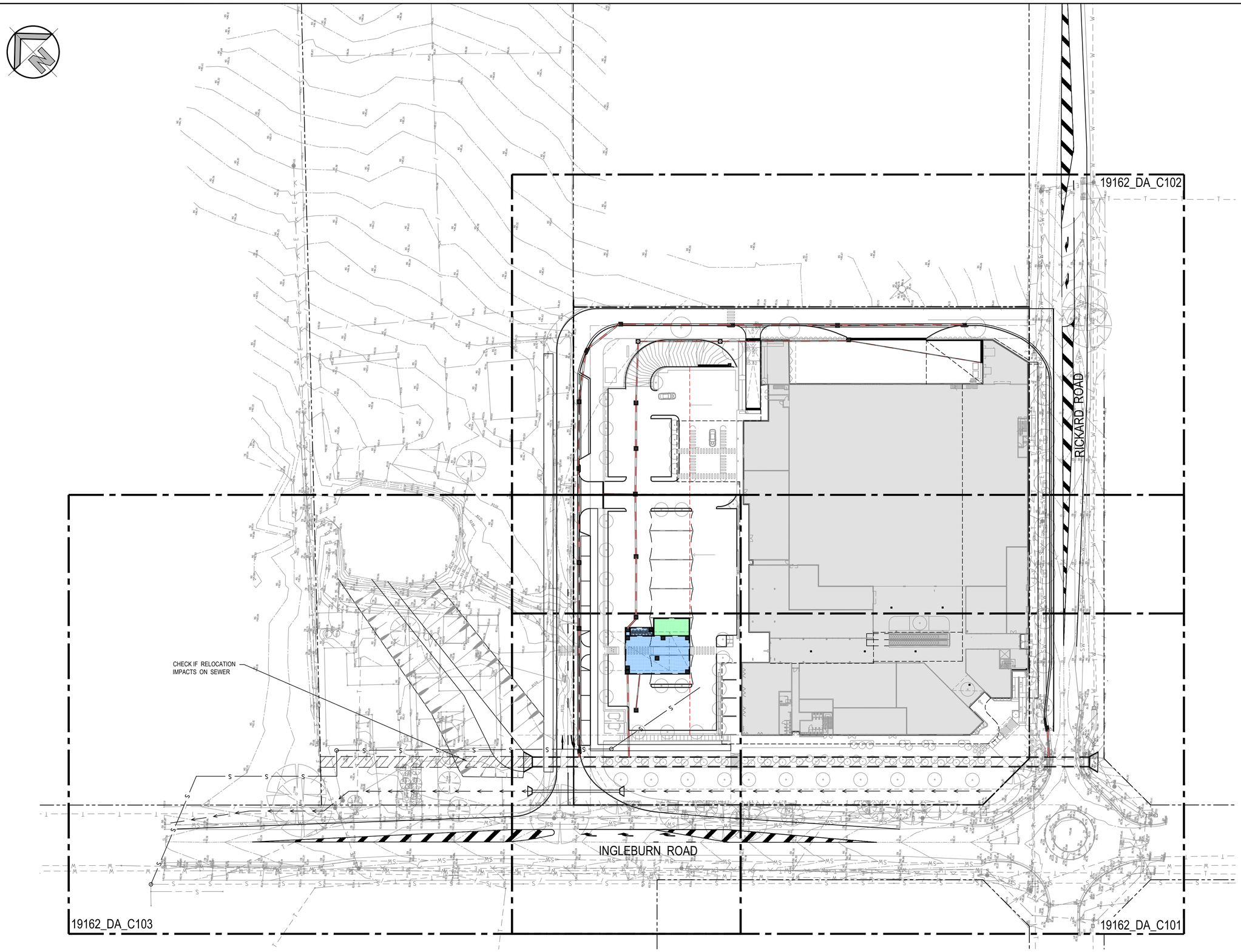
Project: PROPOSED WOOLWORTHS SUPERMARKET 108-116 INGLEBURN RD, LEPPINGTON NSW	Drawn: M.Stimova	Designed: T.Chan	Date: JAN 2020
	Checked: T.Rozehnal	Approved: A.Francis	Scale @A1: NTS
Title: COVER SHEET, DRAWING SCHEDULE, NOTES AND LOCALITY SKETCH	Drawing number: 19162_DA_C000		Revision: 07



LEGEND

- EXISTING BOUNDARY
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- PROPOSED LINTEL ONGRADE & SAG PITS
- PROPOSED GRATED DRAIN
- EXISTING STORMWATER PIPE
- PROPOSED STORMWATER PIPE
- 82.75 — EXISTING CONTOURS
- 83.00 — PROPOSED CONTOURS
- EXISTING SPOT LEVEL
- RL86.27 — PROPOSED SPOT LEVEL
- K&G — PROPOSED KERB & GUTTER
- IK — PROPOSED INTEGRAL KERB
- E — EXISTING ELECTRICAL OVRHEAD LINE
- SW — EXISTING STORMWATER LINE
- S — EXISTING SEWER LINE
- T — EXISTING TELSTRA LINES
- W — EXISTING WATER LINE
- A-1 (LINE LETTER / PIT NUMBER) — PROPOSED PIT TAG
- 40.125 / Ø425RCP / 20.450m / 1.5% / 39.818 — STORMWATER UPSTREAM INVERT RL. / STORMWATER PIPE DIAMETER & CLASS / STORMWATER PIPE LENGTH / STORMWATER PIPE GRADE / STORMWATER DOWNSTREAM INVERT RL.
- K&G — PROPOSED KERB AND GUTTER
- KO — PROPOSED KERB ONLY
- FK — PROPOSED FLUSH KERB
- RWO — PROPOSED RAINWATER OUTLET
- DD — PROPOSED DISH DRAIN
- PROPOSED SWALE
- RW — PROPOSED RETAINING WALL
- O/F — OVERLAND FLOW PATH
- BASEMENT OUTLINE

0 10 20 30 40 50m
10 8 6 4 2
SCALE 1:500

OVERALL PLAN

SCALE 1:500

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY PREMISE
DATUM: A.H.D.
ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	RE-ISSUED FOR DA ONLY	MS	TC	03.02.2021
04	RE-ISSUED FOR DA ONLY	MS	TC	17.11.2020
03	RE-ISSUED FOR DA ONLY	MS	TC	25.09.2020
02	ISSUED FOR DA ONLY	KR	TC	27.03.2020
01	ISSUED FOR DA ONLY	KR	TC	14.02.2020

Client
FABCOT PTY LTD

Architect
ClarkeHopkinsClarke

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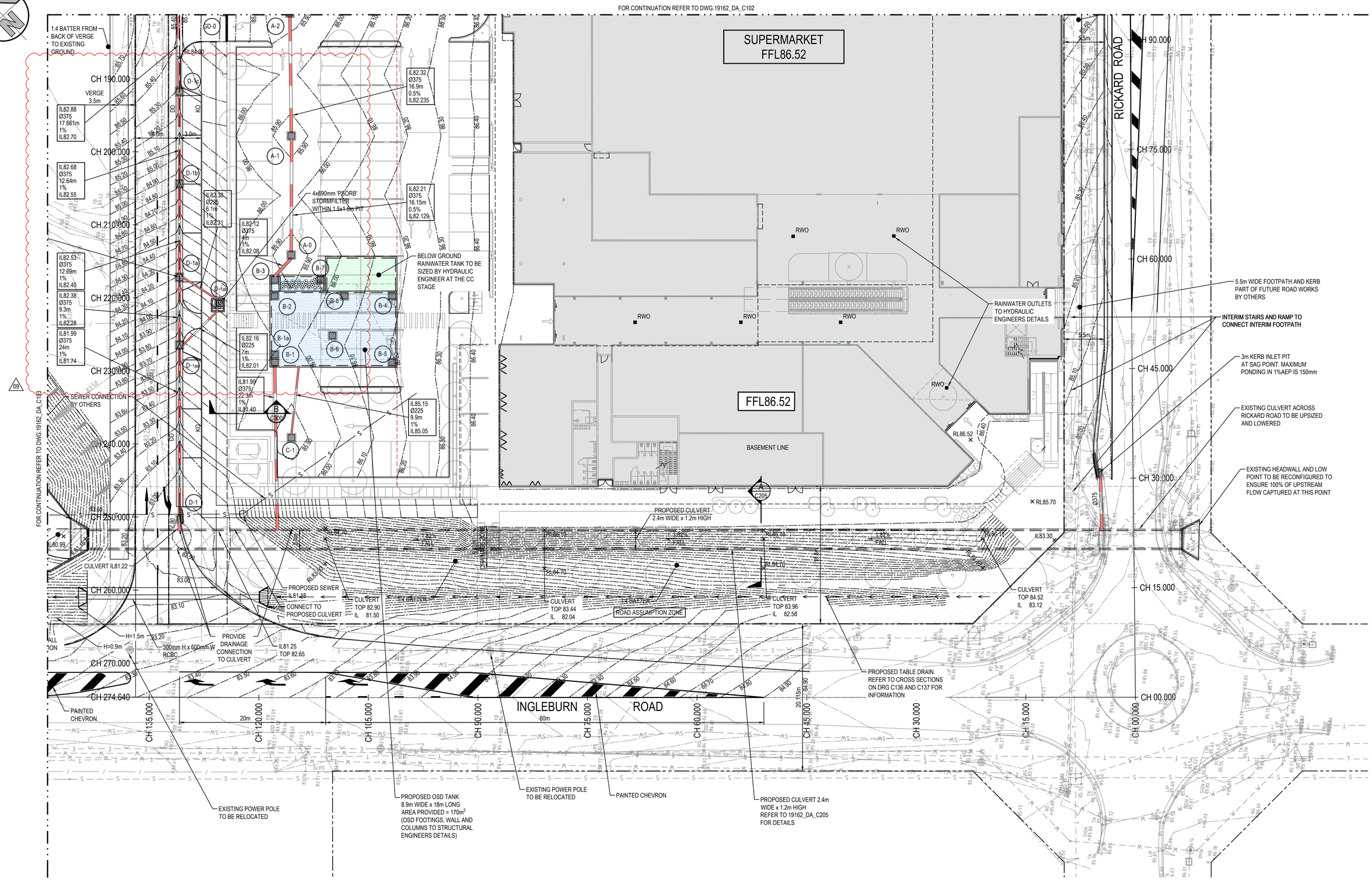
Project
PROPOSED WOOLWORTHS SUPERMARKET
108-116 INGLEBURN RD, LEPPINGTON NSW

Title
OVERALL PLAN

Drawn	Designed	Date
M.Stimova	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:500

Drawing number: 19162_DA_C100
Revision: 05



DETAIL PLAN

SCALE 1:250

0 5 10 15 20 25m

5 4 3 2 1

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY PREMISE
DATUM: A.H.D.
ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
07	RE-ISSUED FOR DA ONLY	MS	TC	04.03.2021					
06	RE-ISSUED FOR DA ONLY	MS	TC	03.02.2021					
05	RE-ISSUED FOR DA ONLY	BH	BH	10.12.2020					
04	RE-ISSUED FOR DA ONLY	MS	TC	17.11.2020					
03	RE-ISSUED FOR DA ONLY	MS	TC	25.09.2020					
02	ISSUED FOR DA ONLY	KR	TC	27.03.2020	09	RE-ISSUED FOR DA ONLY	MS	TC	21.04.2021
01	ISSUED FOR DA ONLY	KR	TC	14.02.2020	08	RE-ISSUED FOR DA ONLY	MS	TC	17.03.2021

Client
FABCOT PTY LTD

Architect
ClarkeHopkinsClarke

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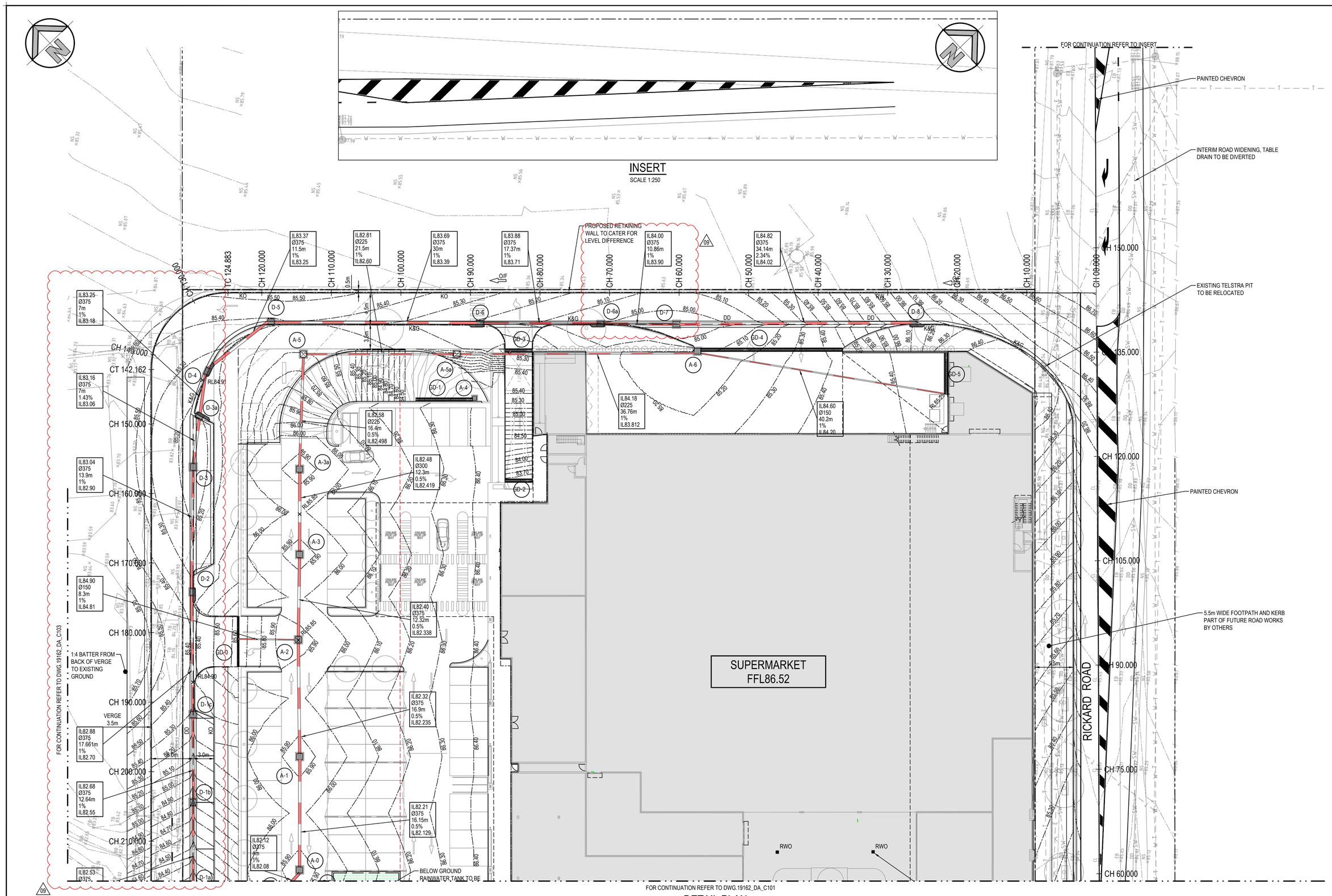
Project
PROPOSED WOOLWORTHS SUPERMARKET
108-116 INGLEBURN RD, LEPPINGTON NSW

Title
DETAIL PLAN
SHEET 1 OF 3

Drawn	Designed	Date
M.Stimova	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:250

Drawing number: 19162_DA_C101

Revision: 09



DETAIL PLAN
SCALE 1:250

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY PREMISE
DATUM: A.H.D.
ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
07	RE-ISSUED FOR DA ONLY	MS	TC	11.02.2021					
06	RE-ISSUED FOR DA ONLY	MS	TC	03.02.2021					
05	RE-ISSUED FOR DA ONLY	MS	TC	17.11.2020					
04	RE-ISSUED FOR DA ONLY	MS	TC	25.09.2020					
03	ISSUED FOR DA ONLY	JK	TC	17.04.2020					
02	ISSUED FOR DA ONLY	KR	TC	27.03.2020	09	RE-ISSUED FOR DA ONLY	MS	TC	17.03.2021
01	ISSUED FOR DA ONLY	KR	TC	14.02.2020	08	RE-ISSUED FOR DA ONLY	MS	TC	04.03.2021

Client
FABCOT PTY LTD

Architect
ClarkeHopkinsClarke

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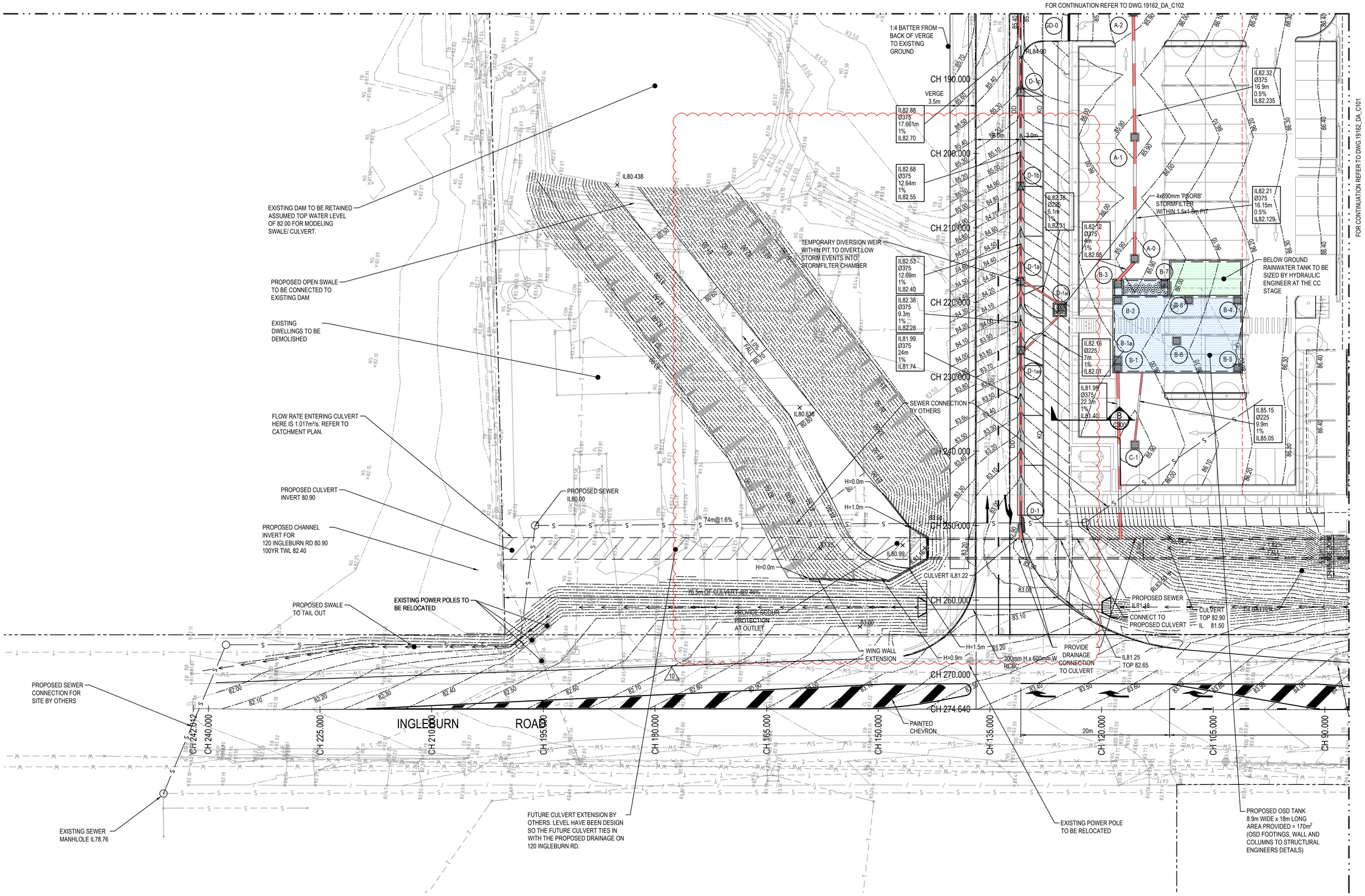
Project
PROPOSED WOOLWORTHS SUPERMARKET
108-116 INGLEBURN RD, LEPPINGTON NSW

Title
DETAIL PLAN
SHEET 2 OF 3

Drawn	Designed	Date
M.Stimova	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:250

Drawing number 19162_DA_C102
Revision 09



DETAIL PLAN

SCALE 1:250

0 5 10 15 20 25m

5 4 3 2 1

SCALE 1:250

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY PREMISE
DATUM: A.H.D.
ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
07	RE-ISSUED FOR DA ONLY	JK	TR	03.02.2021
06	RE-ISSUED FOR DA ONLY	BH	BH	10.12.2020
05	RE-ISSUED FOR DA ONLY	MS	TC	17.11.2020
04	RE-ISSUED FOR DA ONLY	MS	TC	25.09.2020
03	ISSUED FOR DA ONLY	KR	TC	27.03.2020
02	ISSUED FOR DA ONLY	KR	TC	26.02.2020
01	ISSUED FOR DA ONLY	KR	TC	14.02.2020

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
10	RE-ISSUED FOR DA ONLY	MS	TR	21.04.2021
09	RE-ISSUED FOR DA ONLY	MS	TR	20.04.2021
08	RE-ISSUED FOR DA ONLY	JK	TR	04.03.2021

Client
FABCOT PTY LTD

Architect
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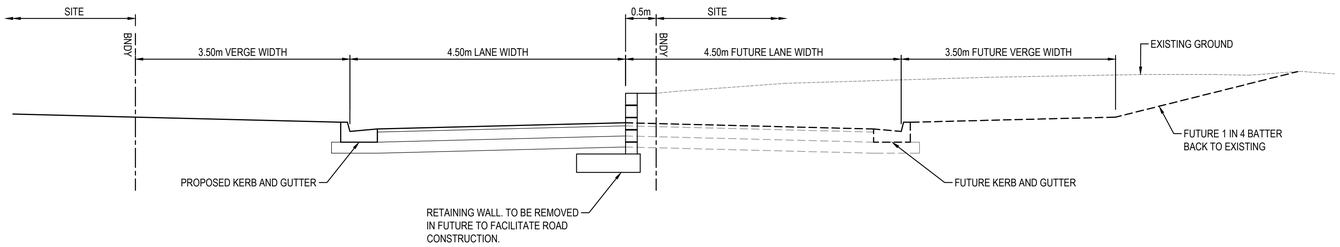
Project
PROPOSED WOOLWORTHS SUPERMARKET
108-116 INGLEBURN RD, LEPPINGTON NSW

Title
DETAIL PLAN
SHEET 3 OF 3

Drawn	Designed	Date
M.Stimova	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:250

Drawing number: 19162_DA_C103
Revision: 10



SERVICE ROAD TYPICAL CROSS SECTION

SCALE 1:50

0 1000 2000 3000 4000 5000mm

1000 600 200

SCALE 1:50

FOR DA ONLY

SURVEY INFORMATION

SURVEYED BY PREMISE

DATUM: A.H.D.

ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR DA ONLY	MS	BH	17.11.2020					
01	ISSUED FOR DA ONLY	BH	BH	30.09.2020					

Client

FABCOT PTY LTD

Architect

ClarkeHopkinsClarke

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Project

PROPOSED WOOLWORTHS SUPERMARKET
108-116 INGLEBURN RD, LEPPINGTON NSW

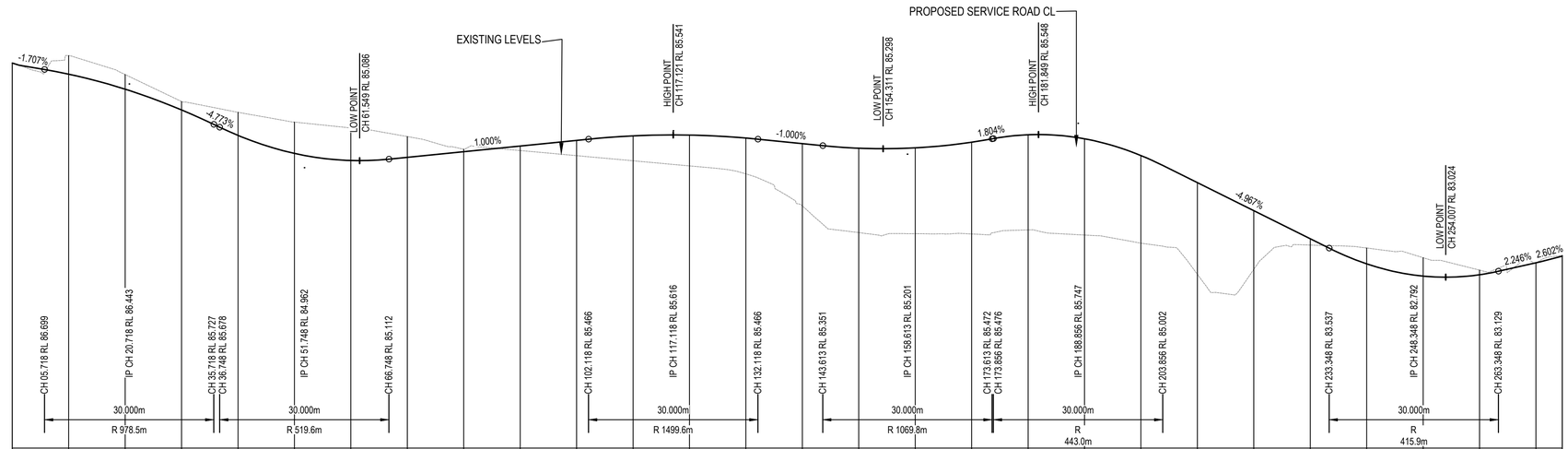
Title

ROAD DETAILS
TYPICAL ROAD CROSS SECTION

Drawn	Designed	Date
B.Hurlstone	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	AS NOTED

Drawing number: 19162_DA_C120

Revision: 02



DATUM RL 80.000

DESIGN LEVELS	86.81	86.62	86.35	85.98	85.53	85.21	85.09	85.14	85.24	85.34	85.45	85.52	85.54	85.49	85.39	85.31	85.31	85.41	85.54	85.47	85.18	84.70	84.20	83.70	83.26	83.04	83.07	83.28	83.40
EXISTING LEVELS	86.81	86.95	86.61	86.13	85.94	85.77	85.67	85.51	85.29	85.27	85.17	85.08	84.99	84.85	84.29	83.81	83.79	83.79	83.86	83.77	83.63	83.07	83.16	83.59	83.54	83.37	83.15	83.28	83.41
CHAINAGE	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	274.640

SERVICE ROAD LONGITUDINAL SECTION

SCALE 1:500H 1:50V

0 1000 2000 3000 4000 5000mm
1000 600 200
SCALE 1:50

0 10 20 30 40 50m
10 8 6 4 2
SCALE 1:500

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY PREMISE
DATUM: A.H.D.
ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR DA ONLY	MS	TC	17.11.2020					
01	ISSUED FOR DA ONLY	MS	TC	25.09.2020					

Client
FABCOT PTY LTD

Architect
ClarkeHopkinsClarke

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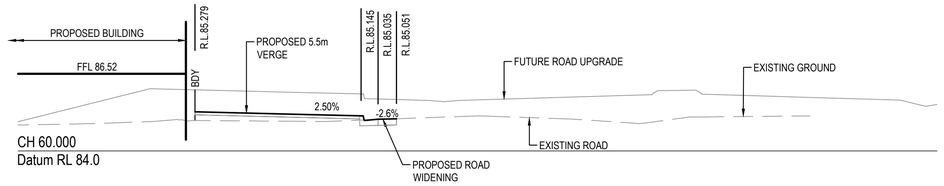
henry&hymas

Project
PROPOSED WOOLWORTHS SUPERMARKET
108-116 INGLEBURN RD, LEPPINGTON NSW

Title
SERVICE ROAD - INTERIM
LONGITUDINAL SECTION

Drawn	Designed	Date
M.Stimova	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	AS NOTED

Drawing number: 19162_DA_C130
Revision: 02



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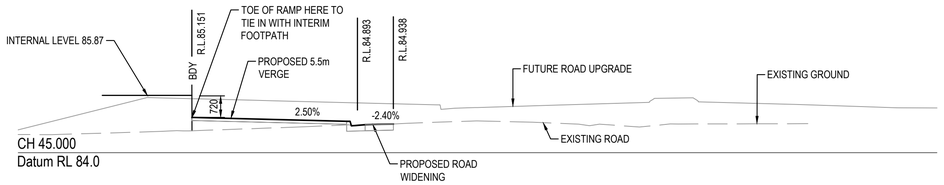
Datum RL 84.0



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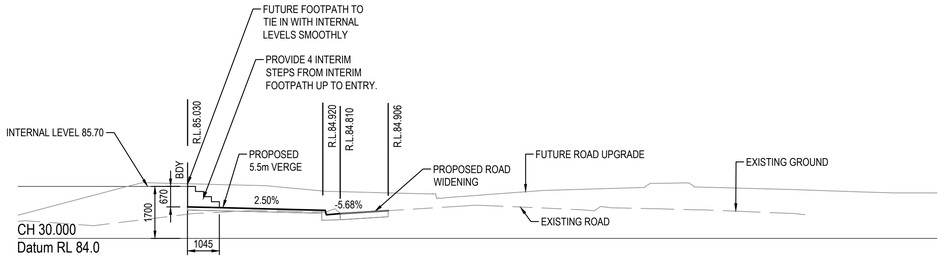

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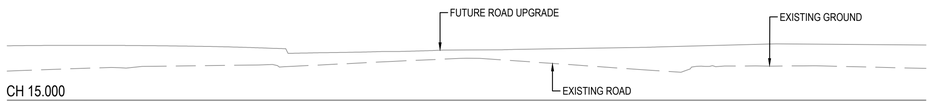

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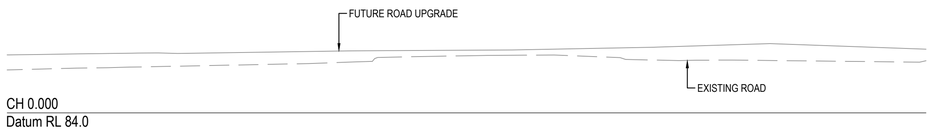

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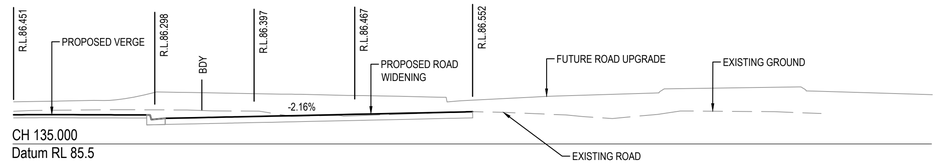

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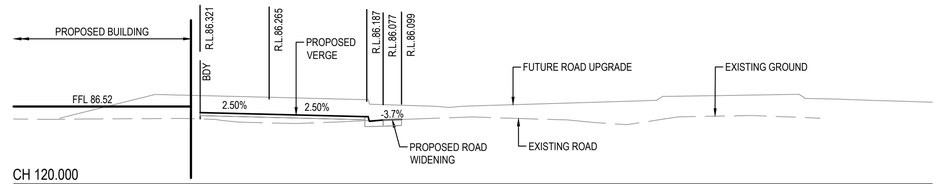

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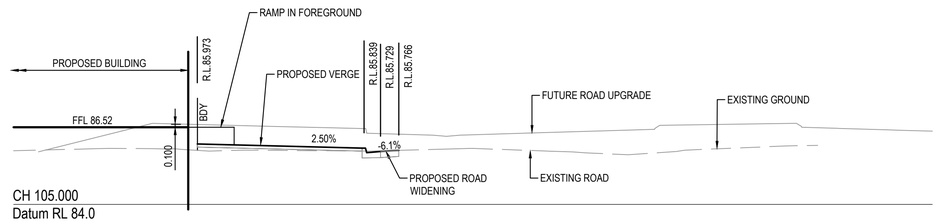

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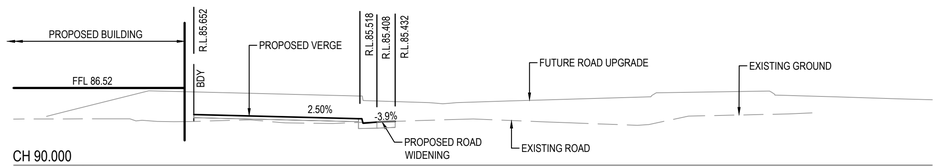

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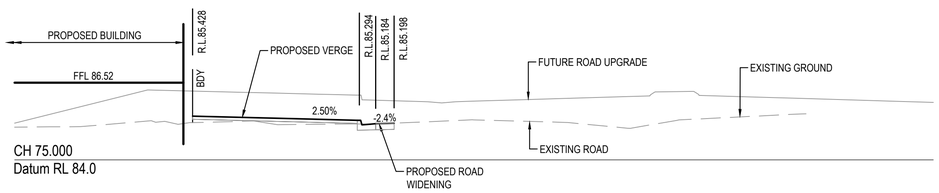

CH 75.000
Datum RL 84.0

RICKARD ROAD CROSS SECTIONS

SCALE 1:100

REFER TO LAYOUT PLANS FOR CHAINAGE LOCATIONS

0 2 4 6 8 10m
2 1
SCALE 1:100

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY PREMISE
DATUM: A.H.D.
ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	RE-ISSUED FOR DA ONLY	MS	BH	03.12.2021					
04	RE-ISSUED FOR DA ONLY	BH	BH	02.12.2020					
03	RE-ISSUED FOR DA ONLY	MS	TR	17.11.2020					
02	RE-ISSUED FOR DA ONLY	MS	TR	29.09.2020					
01	ISSUED FOR DA ONLY	BH	BH	25.09.2020					

Client
FABCOT PTY LTD

Architect
ClarkeHopkinsClarke

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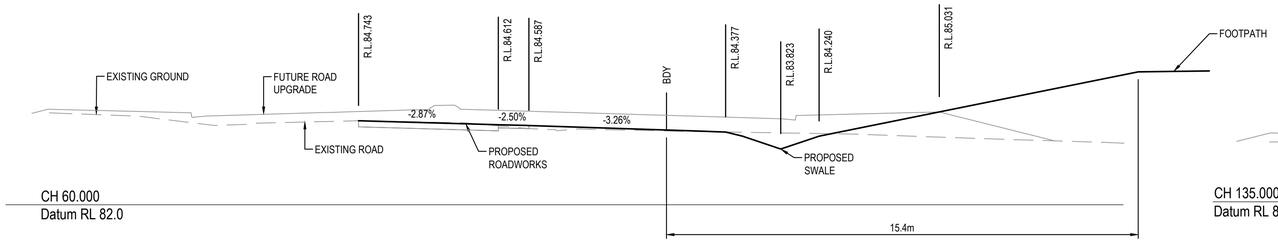
Project: PROPOSED WOOLWORTHS SUPERMARKET 108-116 INGLEBURN RD, LEPPINGTON NSW	Drawn: M.Stimova	Designed: T.Chan	Date: JAN 2020
	Checked: T.Rozehnal	Approved: A.Francis	Scale @A1: AS NOTED
Title: ROAD CROSS SECTIONS RICKARD ROAD SECTIONS	Drawing number: 19162_DA_C135		Revision: 05



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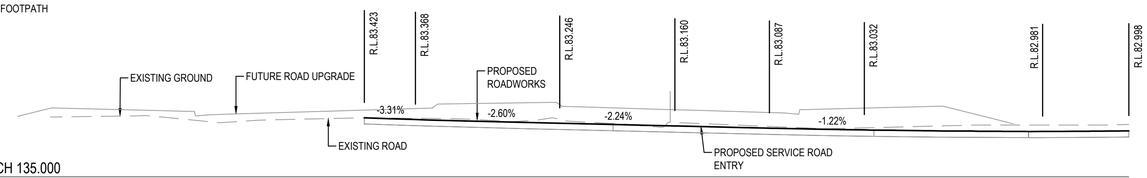

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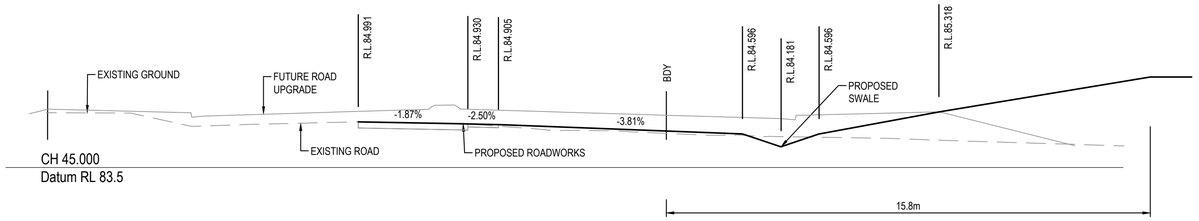

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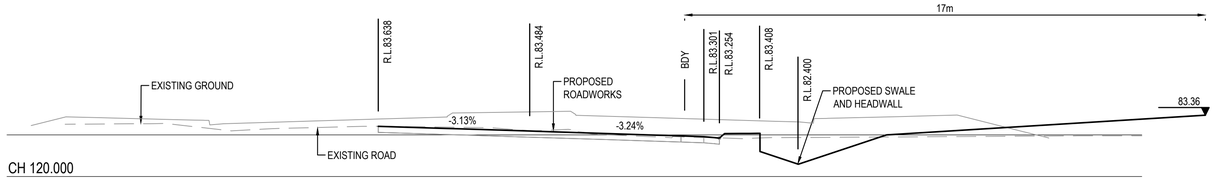

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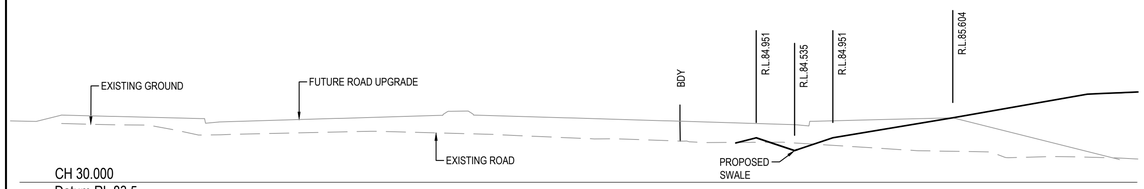

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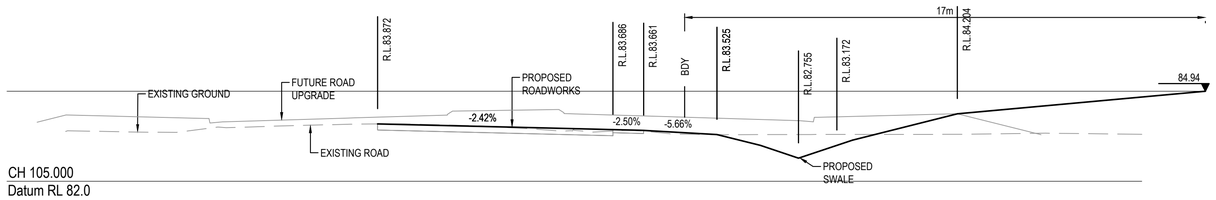

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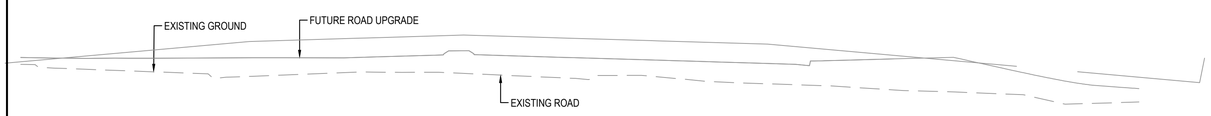

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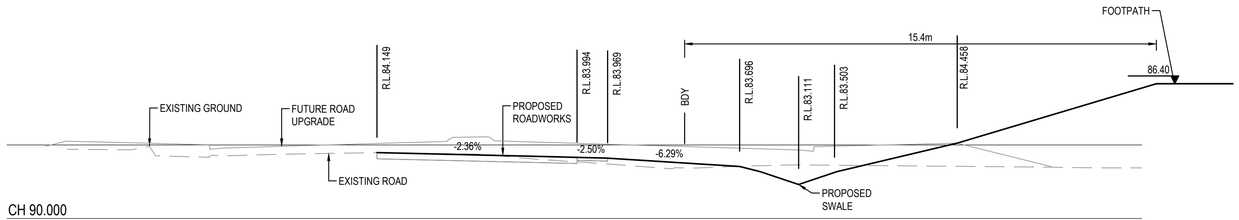

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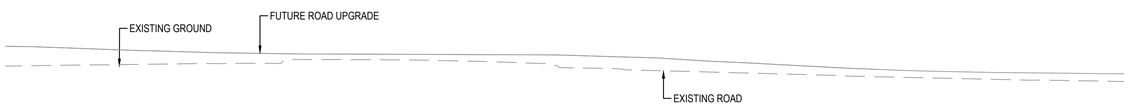

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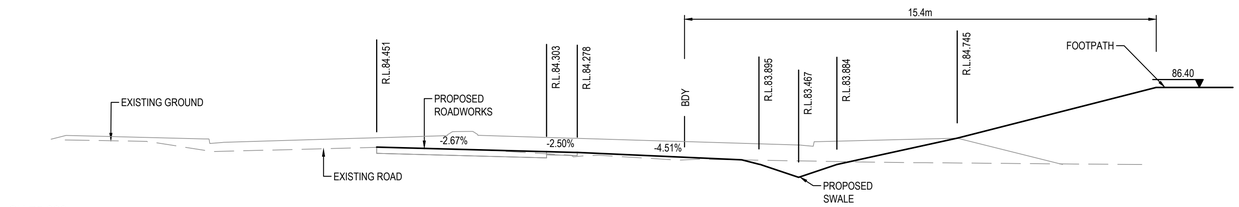

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Datum RL 82.0

INGLEBURN ROAD CROSS SECTIONS

SCALE 1:100

REFER TO LAYOUT PLANS FOR CHAINAGE LOCATIONS

0 2 4 6 8 10m
2 1
SCALE 1:100

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY PREMISE
DATUM: A.H.D.
ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
06	RE-ISSUED FOR DA ONLY	MS	BH	03.02.2021					
05	RE-ISSUED FOR DA ONLY	BH	BH	10.12.2020					
04	RE-ISSUED FOR DA ONLY	BH	BH	02.12.2020					
03	ISSUED FOR DA ONLY	MS	BH	17.11.2020					
02	ISSUED FOR DA ONLY	MS	BH	29.09.2020					
01	ISSUED FOR DA ONLY	BH	BH	25.09.2020					

Client
FABCOT PTY LTD

Architect
ClarkeHopkinsClarke

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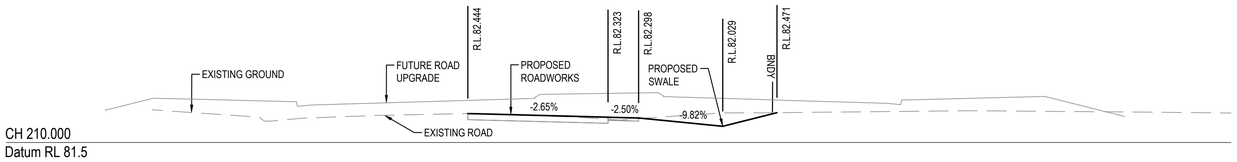
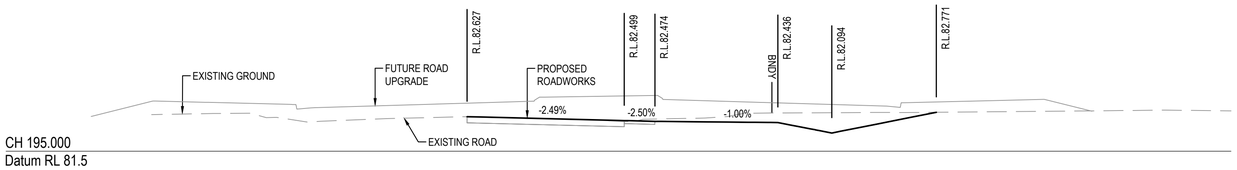
Project
PROPOSED WOOLWORTHS SUPERMARKET
108-116 INGLEBURN RD, LEPPINGTON NSW

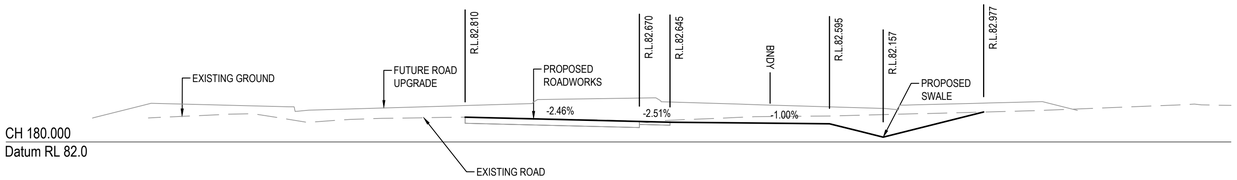
Title
ROAD CROSS SECTIONS
INGLEBURN ROAD - SHEET 1 OF 2

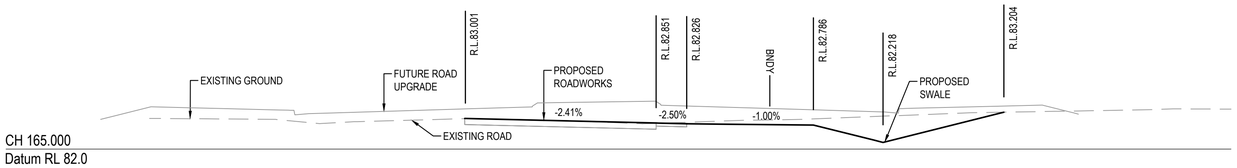
Drawn	Designed	Date
M.Stimova	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	AS NOTED

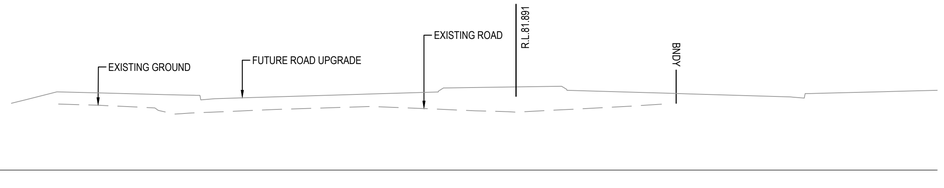
Drawing number: 19162_DA_C136
Revision: 06

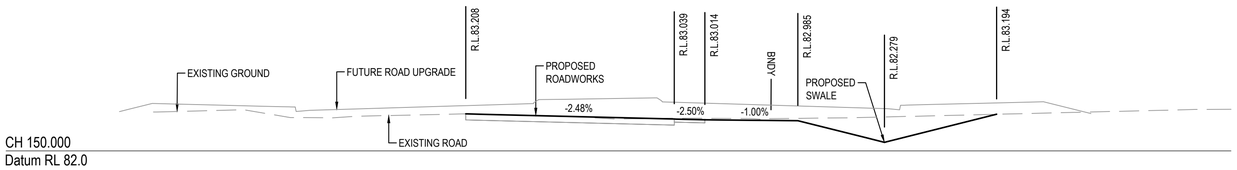


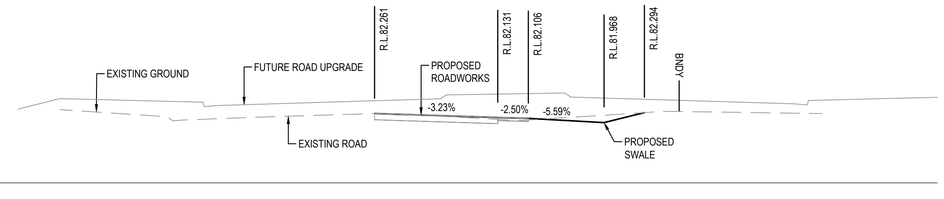












INGLEBURN ROAD CROSS SECTIONS

SCALE 1:100

REFER TO LAYOUT PLANS FOR CHAINAGE LOCATIONS

0 2 4 6 8 10m

2 1

SCALE 1:100

FOR DA ONLY

SURVEY INFORMATION

SURVEYED BY PREMISE

DATUM: A.H.D.

ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	RE-ISSUED FOR DA ONLY	BH	BH	10.12.2020
04	RE-ISSUED FOR DA ONLY	BH	BH	02.12.2020
03	ISSUED FOR DA ONLY	MS	BH	17.11.2020
02	ISSUED FOR DA ONLY	MS	BH	29.09.2020
01	ISSUED FOR DA ONLY	BH	BH	25.09.2020

Client: FABCOT PTY LTD

Architect: ClarkeHopkinsClarke

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henry&hymas

Project: PROPOSED WOOLWORTHS SUPERMARKET 108-116 INGLEBURN RD, LEPPINGTON NSW

Title: ROAD CROSS SECTIONS INGLEBURN ROAD - SHEET 2 OF 2

Drawn	Designed	Date
M.Stimova	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	AS NOTED

Drawing number: 19162_DA_C137

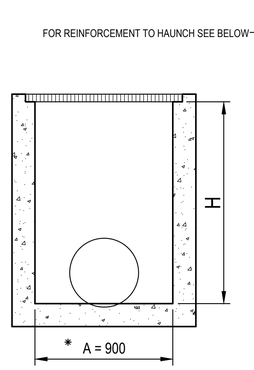
Revision: 05

TYPICAL PIT CHAMBER SIZES

IT IS THE CONTRACTORS RESPONSIBILITY TO SELECT PIT CHAMBER SIZE WITH REGARDS TO PIPE SIZE, DEPTH TO INVERT AND SKEW ANGLE. REFER SKETCHES BELOW.

1. SELECT PIT CHAMBER USING THE STEPS BELOW:
2. SELECT PIT CHAMBER SIZE DEPENDING ON THE PIPE DIAMETERS.
3. CHECK PIT CHAMBER SIZE TO SATISFY DEPTH TO INVERT REQUIREMENTS.
   CHECK PIT CHAMBER DIMENSIONS TO SATISFY THE SKEW ANGLE IN THE TABLE.

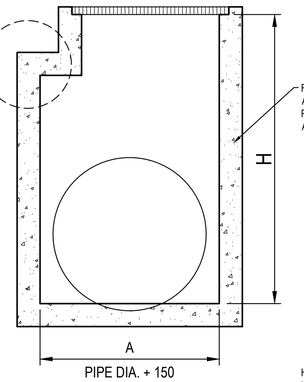
FOR B = 600mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 225mm
FOR B = 900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 375mm
FOR B = 1200mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 600mm
FOR B = 1500mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 825mm
FOR B = 1900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 1050mm



SECTION
NTS

*A = 600 FOR PIPES UP TO 375 DIA.

1 PIT CHAMBER DIMENSIONS FOR PIPES UP TO 600 DIA.

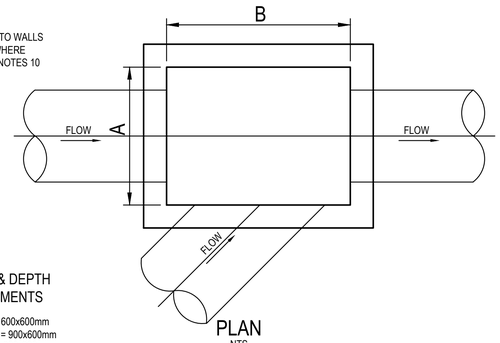


SECTION
NTS

1 PIT CHAMBER FOR PIPES GREATER THAN 600 DIA.

2 PIT SIZE & DEPTH REQUIREMENTS

H = 0-900mm - AxB = 600x600mm
H = 900-1200mm - AxB = 900x600mm
H = >1200mm - AxB = 900x900mm



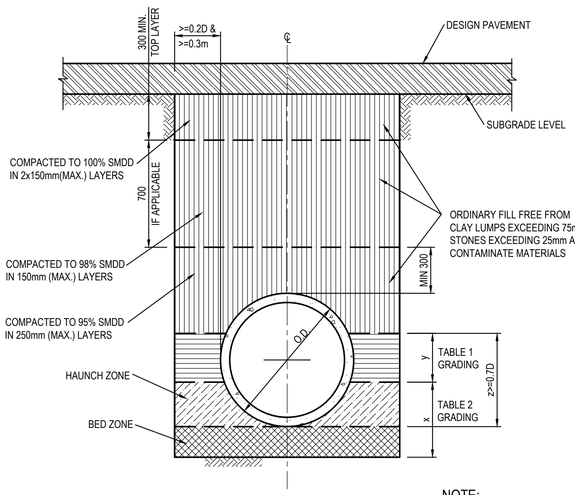
PLAN
NTS

3 PIT CHAMBER FOR SIDE ENTRY ON SKEW

TABLE 1	
SIEVE SIZE (MM)	WEIGHT PASISNG (%)
75.0	100
9.5	100 TO 50
2.36	100 TO 30
0.60	50 TO 15
0.075	25 TO 0

TABLE 2	
SIEVE SIZE (MM)	WEIGHT PASISNG (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

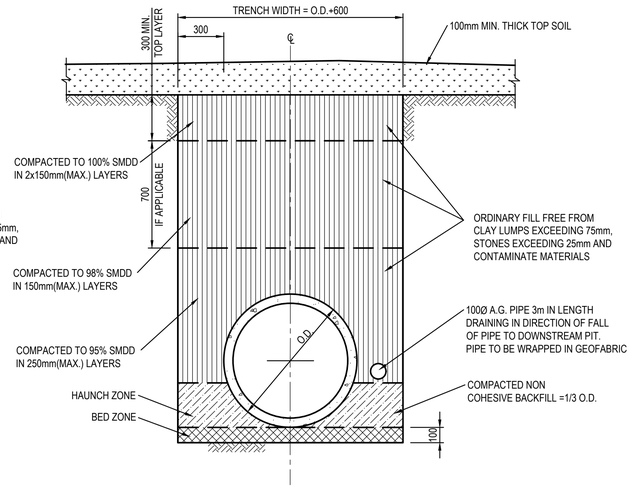
TABLE 3				
SUPPORT TYPE	BED ZONE X	HAUNCH ZONE Y	BED AND HAUNCH ZONES COMPACTION	MAX BEDDING FACTOR
HS1	100 IF D<=1500, OR 150 IF D>=1500	0.1D	50	2.0
HS2		0.3D	60	2.5
HS3		0.3D	70	4.0



PIPE TRENCH INSTALLATION BENEATH PAVEMENT

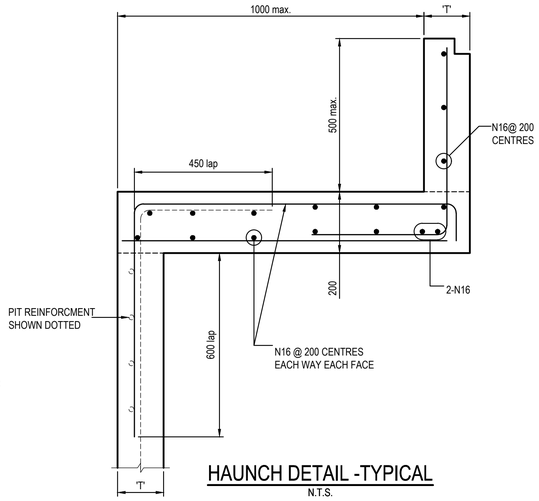
(HS SUPPORT TO BE USED UNDER ROADWAY)
SCALE 1:20

NOTE:
TYPE HS2 TO BE USED AS A TYPICAL SUPPORT FOR TRENCHES UNDER ROADWAY UNLESS SPECIFIED SEPERATELY



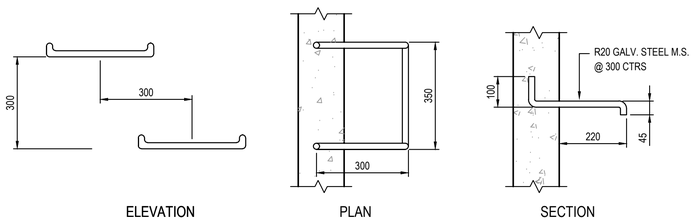
PIPE TRENCH INSTALLATION IN LANDSCAPE AREAS

(H1 & H2 SUPPORT)
SCALE 1:20



HAUNCH DETAIL -TYPICAL

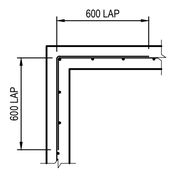
N.T.S.



ELEVATION PLAN SECTION

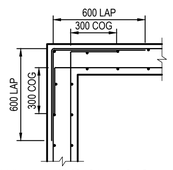
TYPICAL STEP IRON DETAIL

SCALE 1:10



150 WALL - CORNER DETAIL

SCALE 1:20



200 WALL - CORNER DETAIL

SCALE 1:20

0 400 800 1200 1600 2000mm
400 200
SCALE 1:20

0 200 400 600 800 1000mm
200 100
SCALE 1:10

PIT LID SCHEDULE

PIT/STRUCTURE NUMBER	DESCRIPTION
A-0 A-1 A-2 A-3 A-3a A-4 A-5 C-1 D-1ab (07)	SURFACE INLET PIT WITH HINGED 900x900 MEDIUM DUTY GRATED LID CLASS 'C' IN ACCORDANCE WITH LOCAL COUNCIL'S REQUIREMENTS.
A-6 D-5 D-7 D-1b	SURFACE INLET PIT WITH HINGED 900x900 HEAVY DUTY GRATED LID CLASS 'D' IN ACCORDANCE WITH LOCAL COUNCIL'S REQUIREMENTS.
A-5a	JUNCTION PIT WITH HINGED 900x900 LIGHT DUTY SEALED LID CLASS 'B' IN ACCORDANCE WITH LOCAL COUNCIL'S REQUIREMENTS.
D-6 D-8 D-1 D-4 D-2 D-6a D-3a	SURFACE INLET PIT WITH ON GRADE/SAG 1.8m LINTEL, HEAVY DUTY CLASS 'D' IN ACCORDANCE WITH LOCAL COUNCIL'S REQUIREMENTS.
D-4	JUNCTION PIT WITH 900x900 HEAVY DUTY SEALED LID CLASS 'D' IN ACCORDANCE WITH LOCAL COUNCIL'S REQUIREMENTS.
GD-0 GD-1 GD-2 GD-3	200mm WIDE MEDIUM DUTY CLASS 'C' GRATED DRAIN IN ACCORDANCE WITH LOCAL COUNCIL'S REQUIREMENTS.
GD-4 GD-5	300mm WIDE HEAVY DUTY CLASS 'D' GRATED DRAIN IN ACCORDANCE WITH LOCAL COUNCIL'S REQUIREMENTS.
B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-1a	900x900 MEDIUM DUTY GRATED LID CLASS 'C' WITHIN OSD TANK LID IN ACCORDANCE WITH LOCAL COUNCIL'S REQUIREMENTS.
D-1a D-1b D-1c D-3 D-1ab (07)	SURFACE INLET PIT WITH V-GRATE 900x900 HEAVY DUTY GRATED LID CLASS 'D' IN ACCORDANCE WITH LOCAL COUNCIL'S REQUIREMENTS.

NOTE:

OCEAN GUARD PIT BASKET MICRON 200 TO BE INSTALLED IN THE FOLLOWING PITS:

A-0 A-1 A-2 A-3 A-3a A-6 C-1 D-1 D-1a D-1b D-1c D-2 D-3 D-3a D-4 D-6 D-6a D-7 D-8

PLUS ONE OCEAN GUARD IN THE BASEMENT UNDER THE INLET PIPE TO TREAT THE BASEMENT RAMPS AND ONE OCEANGUARD IN A NEW PIT TO TREAT A MINIMUM ROOF AREA OF 500m²

DRAINAGE NOTES:

1. ALL STORMWATER WORK TO COMPLY WITH AS 3500 PART 3.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM COVER OF 600mm ON ALL PIPES.

3. PROTECTION OF PIPES DUE TO LOADS EXCEEDING W7 WHEEL LOAD SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

4. BEDDING TYPE SHALL BE TYPE H2 FOR RCP. WHERE NECESSARY THE OVERLAY ZONE SHALL BE REDUCED TO ACCOMMODATE PAVEMENT REQUIREMENTS. REFER TO THIS DRAWING FOR DETAILS.

5. MINIMUM COVER OVER EXISTING PIPES FOR PROTECTION DURING CONSTRUCTION SHALL BE 800mm.

6. NO CONSTRUCTION LOADS SHALL BE APPLIED TO PLASTIC PIPES.

7. FINISHED SURFACE LEVELS SHOWN ON LAYOUT PLAN DRGS TAKE PRECEDENCE OVER DESIGN DRAINAGE SURFACE LEVELS.

8. ALL PIPES UP TO AND INCLUDING 300 DIA. SHALL BE SOLVENT OR RUBBER RING JOINTED PVC CLASS SH PIPE TO AS1260. ALL OTHER PIPES TO BE RCP USING CLASS 2 RUBBER RING JOINTED PIPE. HARDIES FRC PIPE MAY BE USED IN LIEU OF RCP IF DESIRED IN GROUND. ALL AERIAL PIPES TO BE PVC CLASS SH.

9. ALL PITS IN NON TRAFFICABLE AREAS TO BE PREFABRICATED POLYESTER CONCRETE "POLYCRETE" WITH "LIGHT DUTY" CLASS B GALV. MILD STEEL GRATING AND FRAME.
ALL PITS IN TRAFFICABLE AREAS (CLASS "D" LOADING MAX) TO HAVE 150mm THICK CONCRETE WALLS AND BASE CAST IN-SITU f'c=32 MPa, REINFORCED WITH N12-200 BOTH LOADING WAYS CENTRALLY PLACE .U.N.O. ON SEPARATE DESIGN DRAWINGS IN THIS SET. GALV.MILD STEEL GRATING AND FRAME TO SUIT DESIGN LOADING. PRECAST PITS, RECTANGULAR OR CIRCULAR IN SHAPE, MAY BE USED IN LIEU AND SHALL COMPLY WITH RELEVANT AUSTRALIAN STANDARDS.

10. ALL PITS, GRATINGS AND FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND TO BE IN ACCORDANCE WITH AS3500.3 AND AS3996.

11. PIT CHAMBER DIMENSIONS ARE TO BE SELECTED TO SATISFY THE FOLLOWING:
- PIPE SIZE
- DEPTH TO INVERT
- SKEW ANGLE
  REFER TYPICAL PIT CHAMBER DETAILS BELOW
IF PIT LID SIZE IS SMALLER THAN THE PIT CHAMBER SIZE THEN THE PIT LID IS TO BE CONSTRUCTED ON THE CORNER OF THE PIT CHAMBER WITH THE STEP IRONS DIRECTLY BELOW. ALTERNATIVELY THE PIT LID TO BE USED, IS TO BE THE SAME SIZE AS THE PIT CHAMBER.

12. FOR PIPE SIZES GREATER THAN Ø300mm, PIT FLOOR IS TO BE BENCHED TO FACILITATE FLOW.

13. GALVANISED STEP IRONS SHALL BE PROVIDED AT 300 CTS FOR PITS HAVING A DEPTH EXCEEDING 1200mm. SUBSOIL DRAINAGE PIPE SHALL BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES. (MINIMUM LENGTH 3m).

14. ALL SUBSOIL PIPES SHALL BE 100mm SLOTTED PVC IN A FILTER SOCK, UNO, WITH 3m INSTALLED UPSTREAM OF ALL PITS.

15. ALL PIPEWORK SHALL HAVE MINIMUM DIAMETER 100.

16. MINIMUM GRADE FOR ROOFWATER DRAINAGE LINES SHALL BE 1%.

17. ALL PIPE JUNCTIONS AND TAPER UP TO AND INCLUDING 300 DIA. SHALL BE VIA PURPOSE MADE FITTINGS.

18. ALL ROOF DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH AS3500, PART 3. TESTING TO BE UNDERTAKEN AND REPORTS PROVIDED TO THE SUPERINTENDENT.

19. LOCATION OF THE DIRECT DOWN PIPE CONNECTIONS MAY VARY ON SITE TO SUIT SITE CONDITIONS, WHERE CONNECTION SHOWN ON LONG SECTIONS CHAINAGES ARE INDICATIVE ONLY.

20. PITS IN EXCESS OF 1.5 m DEEP TO HAVE WALL AND FLOOR THICKNESS INCREASED TO 200mm. REINFORCED WITH N12@200 CTS CENTRALLY PLACED BOTH WAYS THROUGHOUT U.N.O.ON SEPARATE DESIGN DRAWINGS IN THIS SET. IF DEPTH EXCEEDS 5m CONTACT ENGINEER.

21. SUBSOIL DRAINAGE LINES FOR LANDSCAPE AREA NOT SHOWN ON THESE DRAWINGS. REFER TO LANDSCAPING PLANS FOR DETAILS.

22. ALL STORMWATER PITS TO HAVE Ø100 uPVC SLOTTED SUBSOIL PIPES CONNECTED TO THEM. THESE SUBSOILS TO EXTEND 3m UPSTREAM OF THE PIT AT A MINIMUM GRADE.

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY PREMISE
DATUM: A.H.D.
ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
07	RE-ISSUED FOR DA ONLY	MS	TC	21.04.2021					
06	RE-ISSUED FOR DA ONLY	MS	TC	17.03.2021					
05	RE-ISSUED FOR DA ONLY	MS	TC	03.02.2021					
04	RE-ISSUED FOR DA ONLY	MS	TC	17.11.2020					
03	RE-ISSUED FOR DA ONLY	MS	TC	25.09.2020					
02	ISSUED FOR DA ONLY	KR	TC	27.03.2020					
01	ISSUED FOR DA	KR	TC	14.02.2020					

Client
FABCOT PTY LTD

Architect
ClarkeHopkinsClarke

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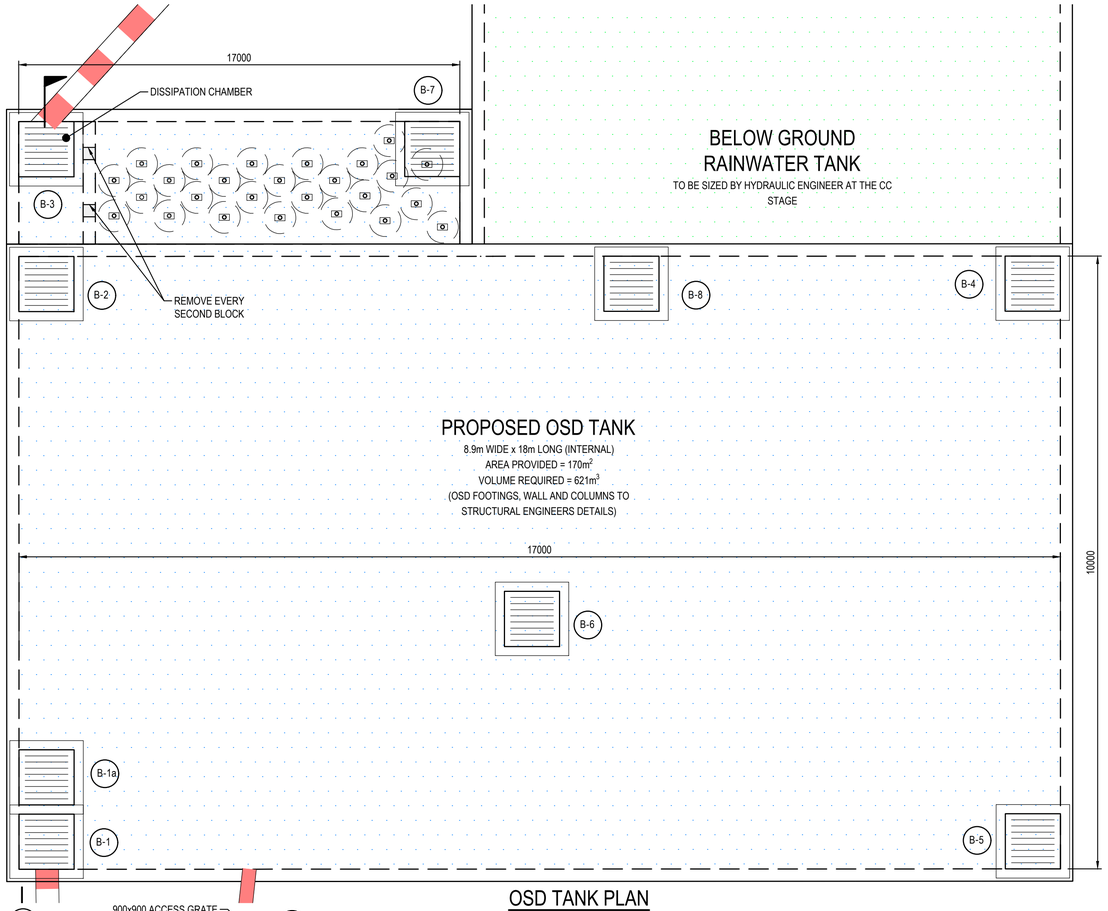
Project
PROPOSED WOOLWORTHS SUPERMARKET
108-116 INGLEBURN RD, LEPPINGTON NSW

Title
STORMWATER MISCELLANEOUS DETAILS AND PIT LID SCHEDULE

Drawn	Designed	Date
M.Stimova	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	AS NOTED

Drawing number: 19162_DA_C200
Revision: 07



OSD TANK PLAN

SCALE 1:50

ARI(YR)	PRE-DEVELOPMENT (L/S)	POST-DEVELOPMENT (L/S)
5	88	87
10	137	98
20	192	108
100	328	298

07

DANGER

CONFINED SPACE

NO ENTRY WITHOUT
CONFINED SPACE
TRAINING

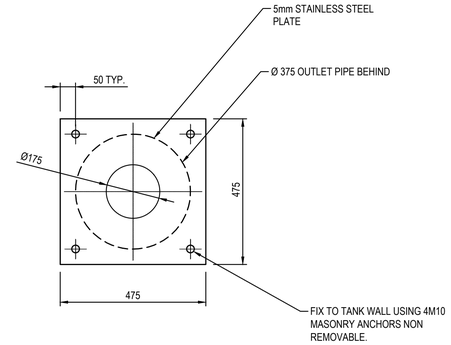
NTS

A) A CONFINED SPACE DANGER SIGN SHALL BE POSITIONED IN A LOCATION SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANKS/ CONFINED SPACE AT ALL ACCESS POINTS OF THE TANK/ CONFINED SPACE.

B) SIGN TO BE MINIMUM DIMENSIONS: 250mm x 180mm ENTRIES I.E.. GRATES, MANHOLES

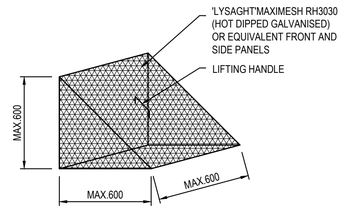
C) SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED METAL OR POLYPROPYLENE

D) SIGN SHALL BE AFFIXED TO A SURFACE WITH SCREWS AT EACH CORNER.



ORIFICE PLATE DETAIL

SCALE 1:10

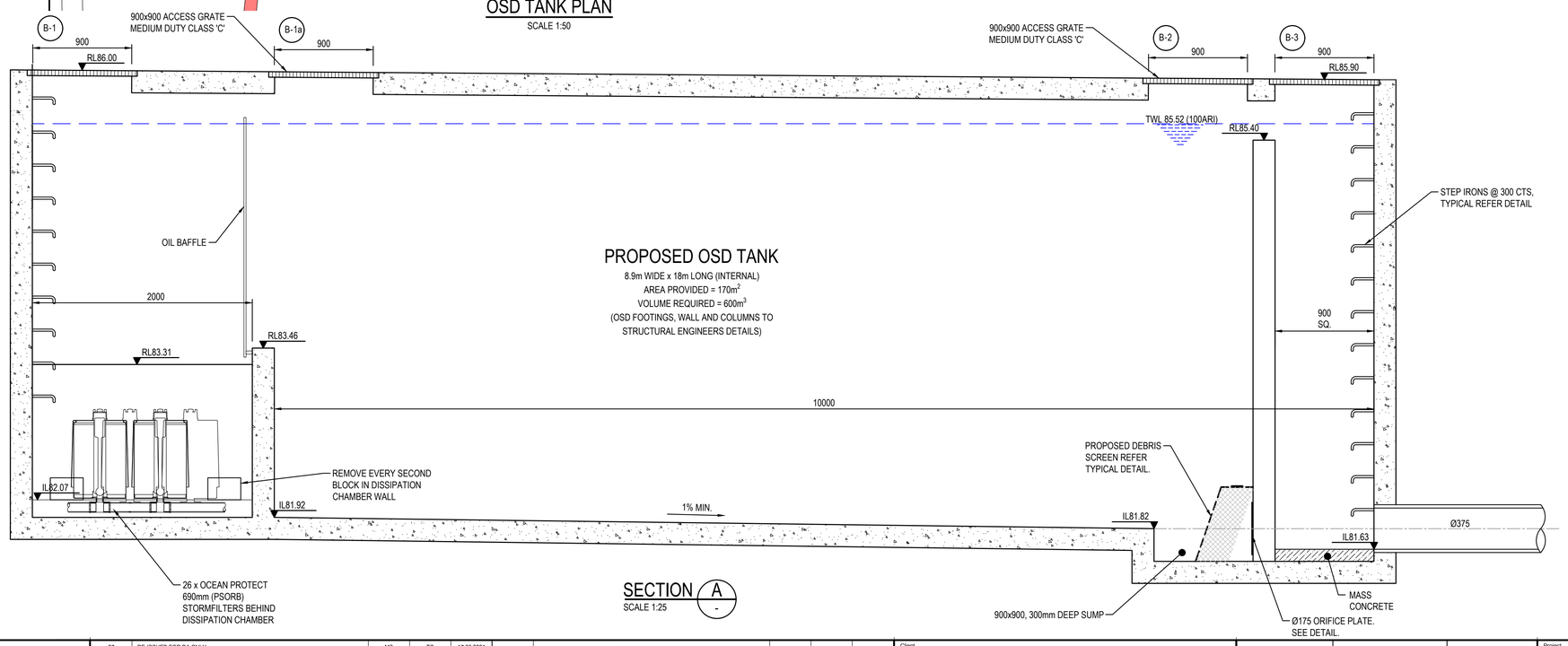


TRASH SCREEN DETAIL

N.T.S

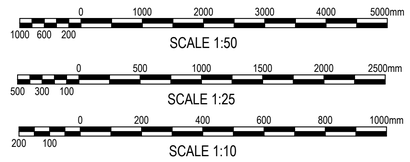
TRASH SREEN NOTES

1. MAXIMESH SCREENS MUST BE PLACED SUCH THAT THE LONG AXIS OF THE OVAL SHAPED HOLES ARE ORIENTATED HORIZONTALLY WITH THE PORTRUDING LIP ANGLED UPWARDS AND FACING TOWRADS THE OUTLET.
2. THE SCREEN IS TO BE FORMED BY WELDING TWO TRIANGULAR MAXIMESH (OR EQUIVALENT) PANELS TO A RECTANGULAR FRONT MAXIMESH PANEL(OR EQUIVALENT)



SECTION A

SCALE 1:25



FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY PREMISE
DATUM: A.H.D.
ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
07	RE-ISSUED FOR DA ONLY	MS	TC	17.03.2021					
06	RE-ISSUED FOR DA ONLY	MS	TC	03.02.2021					
05	RE-ISSUED FOR DA ONLY	MS	TC	17.11.2020					
04	RE-ISSUED FOR DA ONLY	MS	TC	25.09.2020					
03	ISSUED FOR DA ONLY	KR	TC	27.03.2020					
02	ISSUED FOR DA ONLY	KR	TC	26.02.2020					
01	ISSUED FOR DA ONLY	KR	TC	14.02.2020					

Client
FABCOT PTY LTD

Architect
ClarkeHopkinsClarke

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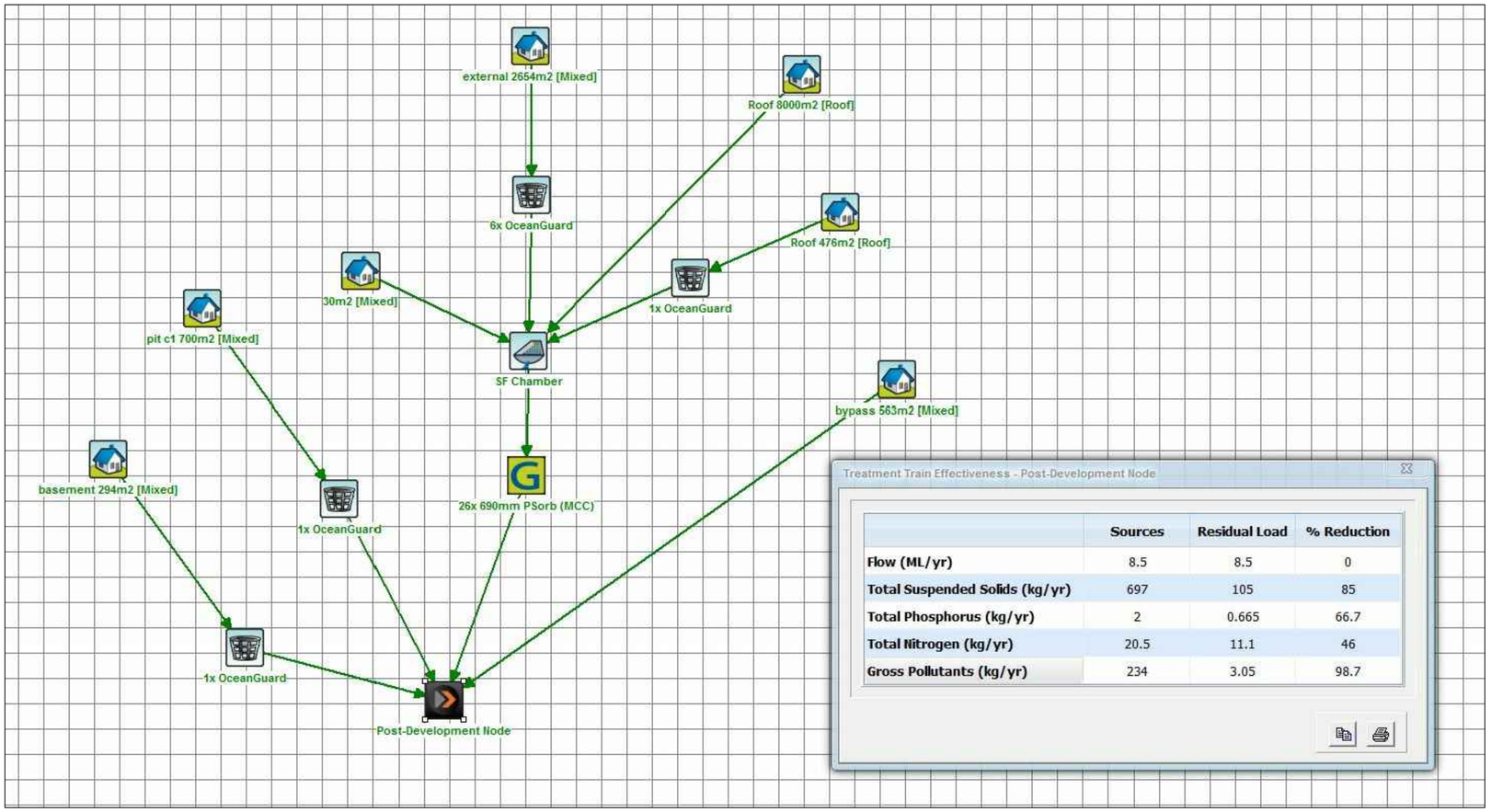
Project
PROPOSED WOOLWORTHS SUPERMARKET
108-116 INGLEBURN RD, LEPPINGTON NSW

Title
OSD TANK PLAN & SECTION

Drawn	Designed	Date
M.Stimova	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	AS NOTED

Drawing number
19162_DA_C201

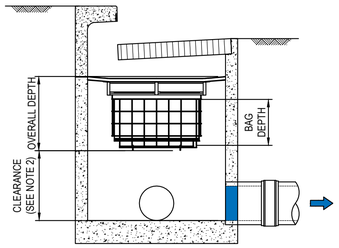
Revision
07



	Sources	Residual Load	% Reduction
Flow (ML/yr)	8.5	8.5	0
Total Suspended Solids (kg/yr)	697	105	85
Total Phosphorus (kg/yr)	2	0.665	66.7
Total Nitrogen (kg/yr)	20.5	11.1	46
Gross Pollutants (kg/yr)	234	3.05	98.7

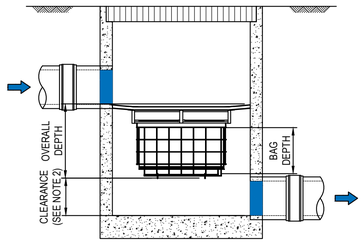
MUSIC MODEL

NTS



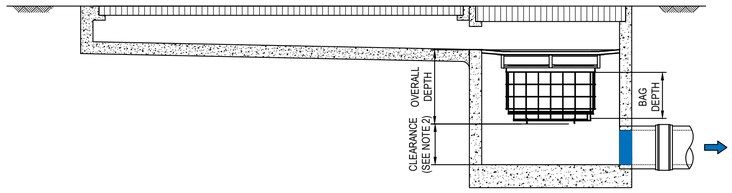
SURFACE FLOW CONFIGURATION

SCALE: 1:20



PIPE FLOW CONFIGURATION

SCALE: 1:20



GRATED STRIP DRAIN CONFIGURATION

SCALE: 1:20

0 400 800 1200 1600 2000mm

400 200

SCALE 1:20

TYPICAL OCEANGUARD CONFIGURATION

FOR DA ONLY

SURVEY INFORMATION

SURVEYED BY PREMISE

DATUM: A.H.D.

ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	RE-ISSUED FOR DA ONLY	MS	TC	03.02.2021					
03	RE-ISSUED FOR DA ONLY	MS	TC	17.11.2020					
02	RE-ISSUED FOR DA ONLY	MS	TC	25.09.2020					
01	ISSUED FOR DA ONLY	KR	TC	27.03.2020					

Client: FABCOT PTY LTD

Architect: ClarkeHopkinsClarke

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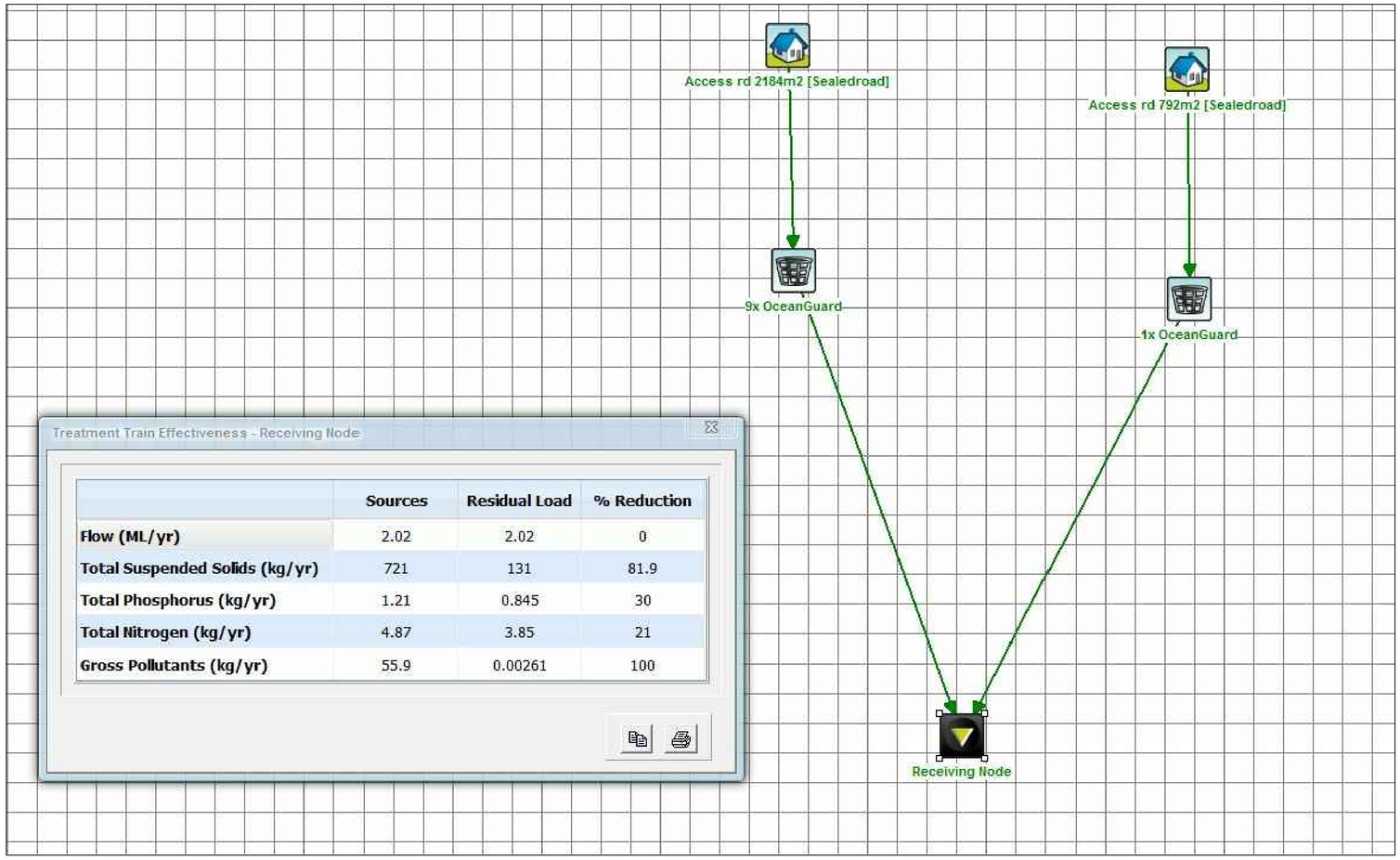
Project: PROPOSED WOOLWORTHS SUPERMARKET 108-116 INGLEBURN RD, LEPPINGTON NSW

Title: WATER QUALITY PLAN & DETAILS

Drawn	Designed	Date
M.Stimova	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	AS NOTED

Drawing number: 19162_DA_C202

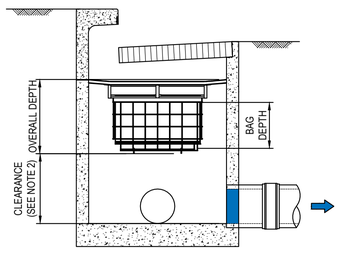
Revision: 04



	Sources	Residual Load	% Reduction
Flow (ML/yr)	2.02	2.02	0
Total Suspended Solids (kg/yr)	721	131	81.9
Total Phosphorus (kg/yr)	1.21	0.845	30
Total Nitrogen (kg/yr)	4.87	3.85	21
Gross Pollutants (kg/yr)	55.9	0.00261	100

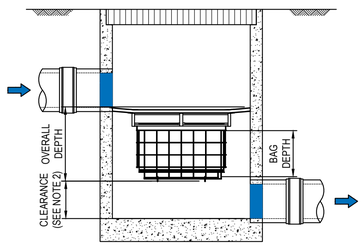
MUSIC MODEL

NTS



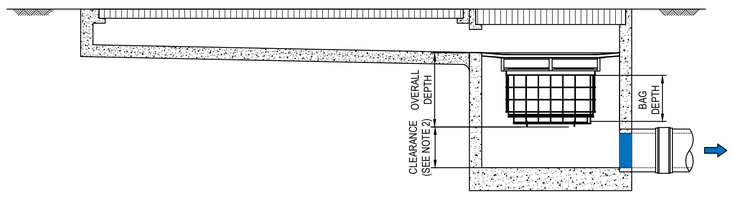
SURFACE FLOW CONFIGURATION

SCALE: 1:20



PIPE FLOW CONFIGURATION

SCALE: 1:20



GRATED STRIP DRAIN CONFIGURATION

SCALE: 1:20

0 400 800 1200 1600 2000mm

400 200

SCALE 1:20

TYPICAL OCEANGUARD CONFIGURATION

FOR DA ONLY

SURVEY INFORMATION

SURVEYED BY PREMISE

DATUM: A.H.D.

ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR DA ONLY	MS	TC	03.02.2021					

Client: FABCOT PTY LTD

Architect: ClarkeHopkinsClarke

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Project: PROPOSED WOOLWORTHS SUPERMARKET 108-116 INGLEBURN RD, LEPPINGTON NSW

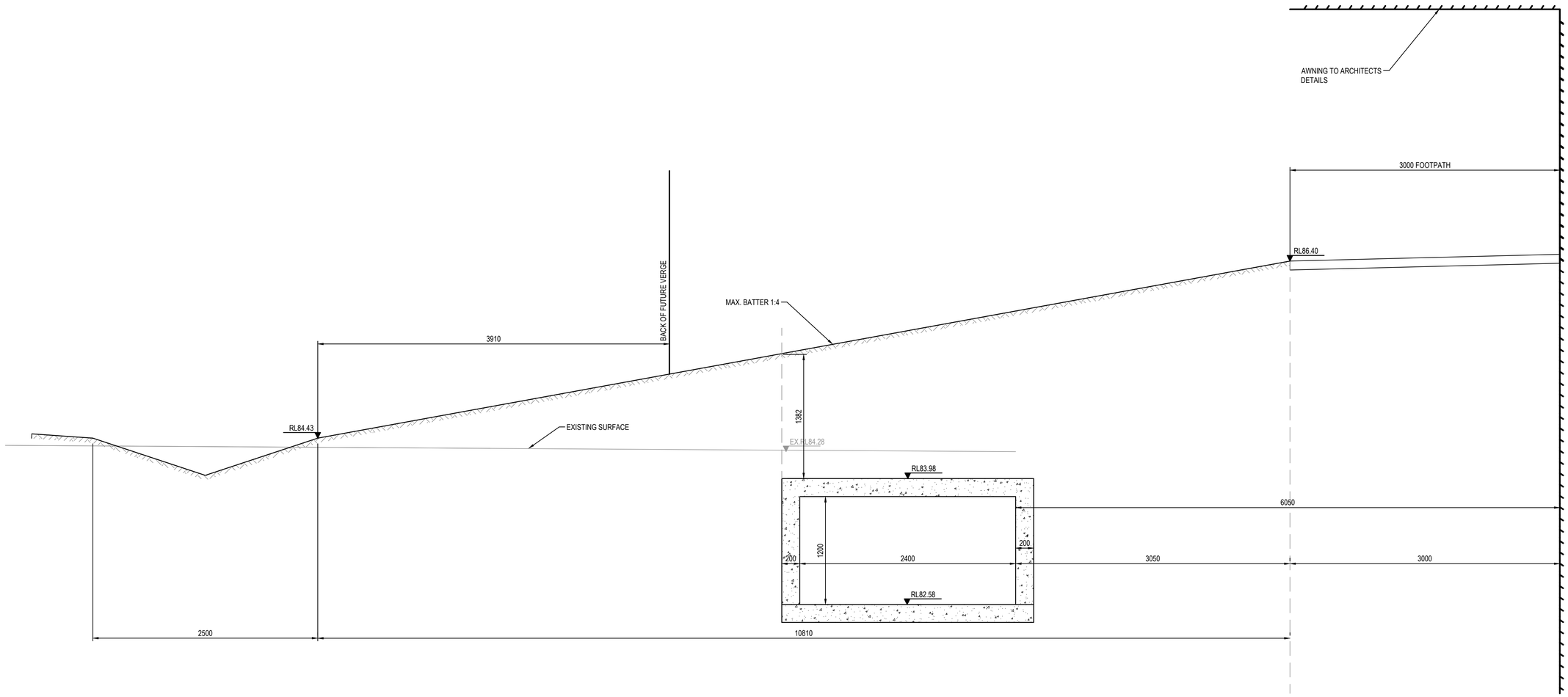
Title: WATER QUALITY PLAN & DETAILS SERVICE LANES

Drawn	Designed	Date
M.Stimova	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	AS NOTED

Drawing number: 19162_DA_C203

Revision: 01

CULVERT SIZING DETAILS		
TOTAL CATCHMENT AREA TO CULVERT	27.54 ha	REFER TO DRAWING C255 FOR CATCHMENT
SLOPE	1.82%	-
SIZE	1.2m HIGH x 2.4m WIDE	-
BLOCKAGE FACTOR	50%	



CULVERT TYPICAL SECTION

SCALE 1:25

0 500 1000 1500 2000 2500mm
500 300 100
SCALE 1:25

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY PREMISE
DATUM: A.H.D.
ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	RE-ISSUED FOR DA ONLY	MS	TC	03.02.2021					
04	RE-ISSUED FOR DA ONLY	MS	TC	17.11.2020					
03	RE-ISSUED FOR DA ONLY	MS	TC	25.09.2020					
02	ISSUED FOR DA ONLY	KR	TC	27.03.2020					
01	ISSUED FOR DA ONLY	KR	TC	14.02.2020					

Client
FABCOT PTY LTD

Architect
ClarkeHopkinsClarke

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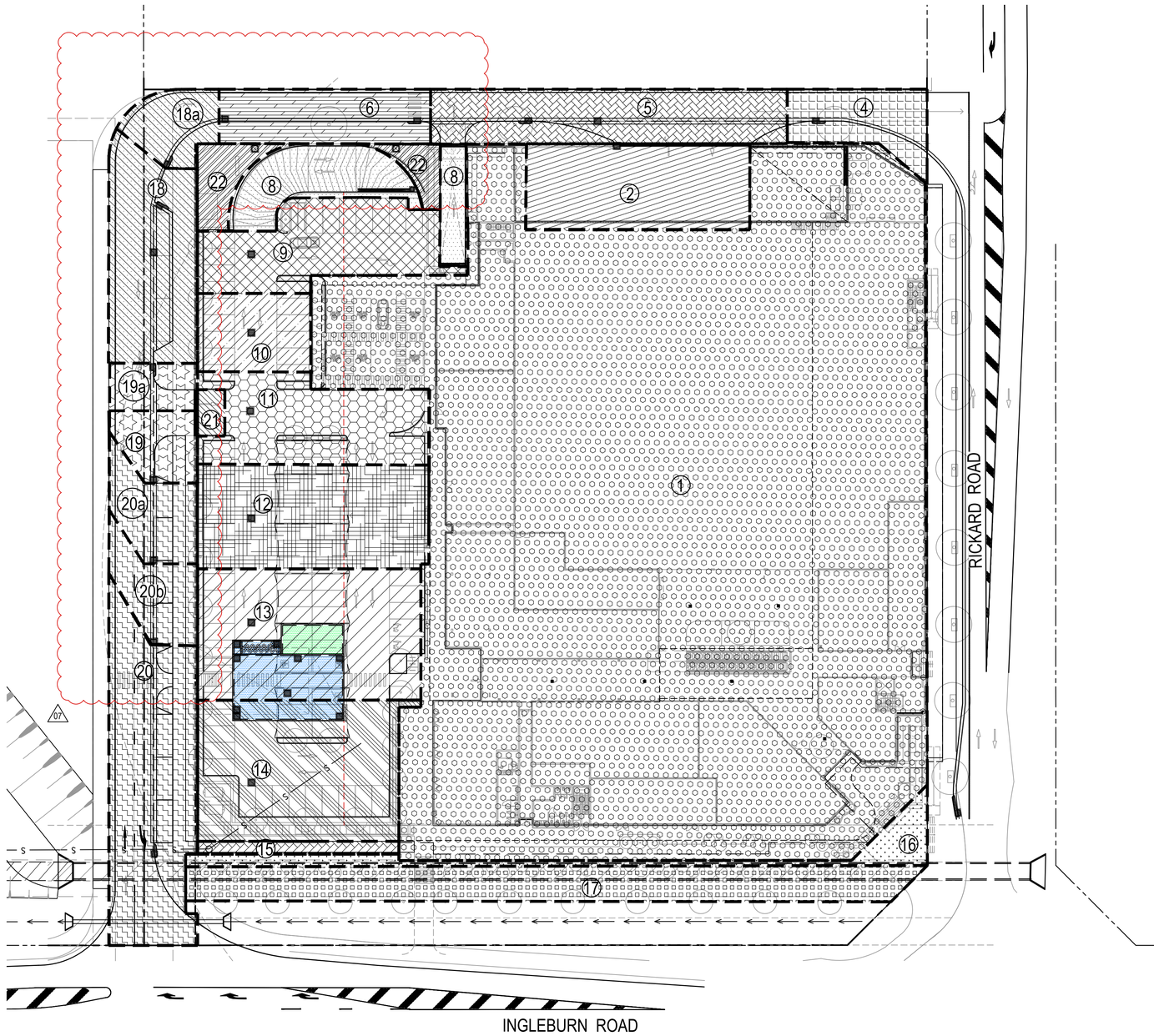
Project
PROPOSED WOOLWORTHS SUPERMARKET
108-116 INGLEBURN RD, LEPPINGTON NSW

Title
CULVERT TYPICAL SECTION

Drawn	Designed	Date
M.Stimova	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	AS NOTED

Drawing number: 19162_DA_C205
Revision: 05



STORMWATER CATCHMENT PLAN

SCALE 1:400

TOTAL CATCHMENT AREA: 16,319m²

SERVICE ROAD AREA = 2981m² SITE AREA = 1,3338m²

1	ROOF CATCHMENT TO OSD SYSTEM AREA = 8 476.43 m²
2	EXTERNAL AREA TO OSD SYSTEM AREA = 425.8 m²
4	SERVICE ROAD CATCHMENT AREA = 232 m²
5	SERVICE ROAD CATCHMENT AREA = 559 m²
6	SERVICE ROAD CATCHMENT AREA =337 m²
8	EXTERNAL AREA TO OSD SYSTEM VIA BASEMENT PUMP OUT AREA = 294.36 m²
9	EXTERNAL AREA TO OSD SYSTEM AREA = 441.13 m²
10	EXTERNAL AREA TO OSD SYSTEM AREA = 218.3 m²
11	EXTERNAL AREA TO OSD SYSTEM AREA = 438.36 m²
12	EXTERNAL AREA TO OSD SYSTEM AREA = 586.25 m²
13	EXTERNAL AREA TO OSD SYSTEM AREA = 718.16 m²
14	EXTERNAL AREA TO OSD SYSTEM AREA = 700 m²
15	AREA BYPASSING OSD AREA = 62.7 m²
16	AREA BYPASSING OSD AREA = 206 m²
17	DRAINAGE AREA EXCLUDED FROM SITE CALC AREA = 622 m²
18	SERVICE ROAD CATCHMENT AREA = 448.81 m²
18a	SERVICE ROAD CATCHMENT AREA = 152.43 m²
19	SERVICE ROAD CATCHMENT AREA = 136.8 m²
19a	SERVICE ROAD CATCHMENT AREA = 105.46 m²
20	SERVICE ROAD CATCHMENT AREA = 671 m²
20a	SERVICE ROAD CATCHMENT AREA = 173 m²
21	EXTERNAL AREA TO OSD SYSTEM AREA = 30 m²
20b	SERVICE ROAD CATCHMENT AREA = 165 m²
22	AREA BYPASSING OSD AREA = 119.08m²

07

0 8 16 24 32 40m

8 6 4 2

SCALE 1:400

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY PREMISE
DATUM: A.H.D.
ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
07	ISSUED FOR DA ONLY	MS	TR	17.03.2021					
06	ISSUED FOR DA ONLY	MS	TC	03.02.2021					
05	ISSUED FOR DA ONLY	JK	TC	17.11.2020					
04	ISSUED FOR DA ONLY	JK	TC	25.09.2020					
03	ISSUED FOR DA ONLY	KR	TC	27.03.2020					
02	ISSUED FOR DA ONLY	KR	TC	26.02.2020					
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henry&hymas

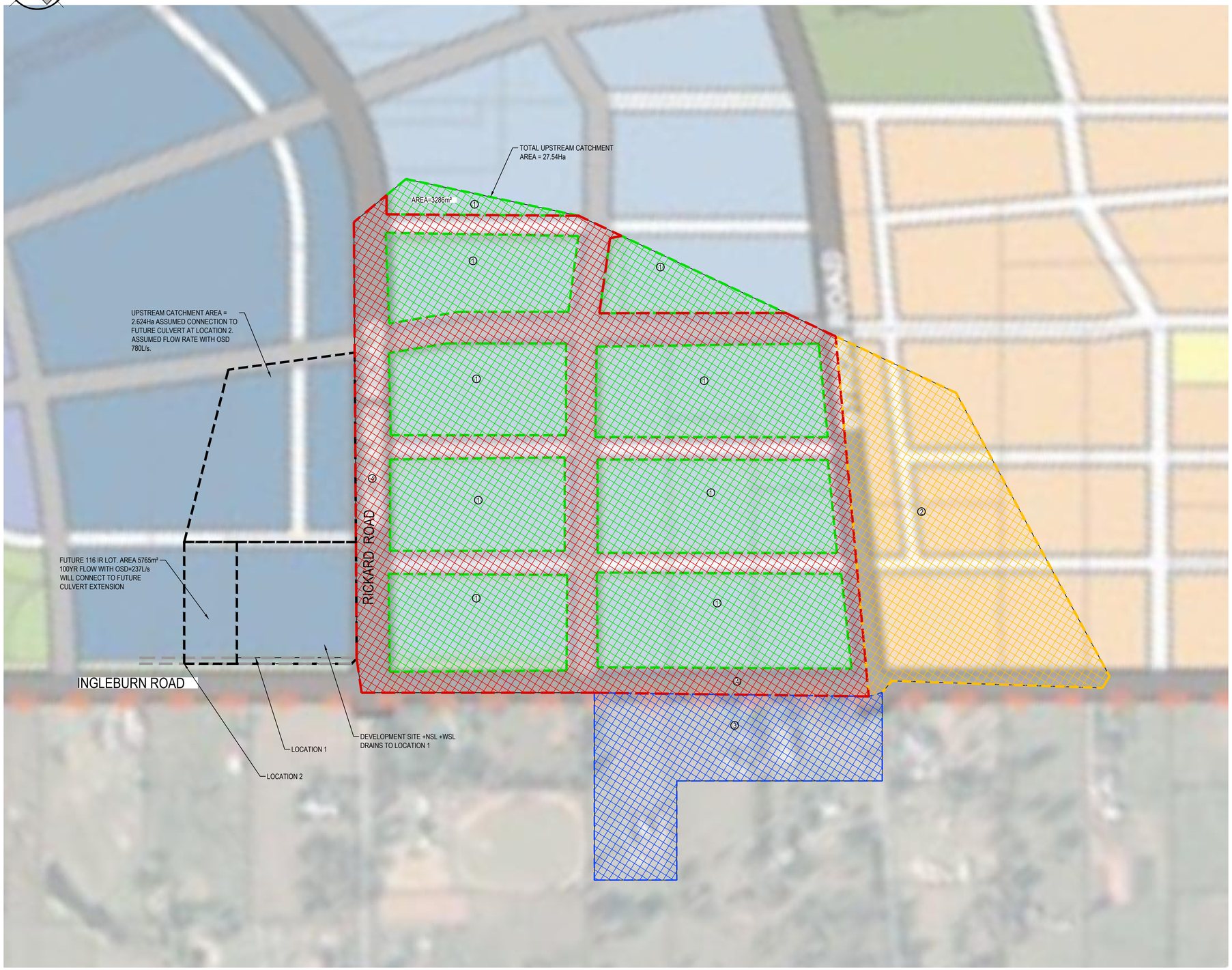
Project
PROPOSED WOOLWORTHS SUPERMARKET
108-116 INGLEBURN RD, LEPPINGTON NSW

Title
STORMWATER CATCHMENT PLAN

Drawn	Designed	Date
K.Rom	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:400

Drawing number 19162_DA_C250

Revision 07



TOTAL CATCHMENT AREA: 27,54ha

1. GREEN AREA CONTAINS OSD
AREA = 129 567m² (100% PERVIOUS)

2. YELLOW AREA NO OSD
AREA= 48 034m² (80% IMPERVIOUS)

3. B18 CONTAINS OSD
AREA= 26 948 m² (100% PERVIOUS)

4. ROADS
AREA = 70851m² (90% IMPERVIOUS)

FLOW RATE CALCULATION

AREA	100 YEAR FLOW	IMPERVIOUS (%)	OSD
GREEN	1.38m³/s	0%	YES
YELLOW	2.0m³/s	80%	NO
BLUE	0.477m³/s	0%	YES
ROADS	2.65m³/s	90%	NO

* TOTAL 1% AEP FLOW =6.567m³/s
* WITH 50% BLOCKAGE FLOW = 9.76m³/s

0 40 80 120 160 200m
40 30 20 10
SCALE 1:2000

STORMWATER CATCHMENT PLAN - OVERALL

SCALE 1:2000

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY PREMISE
DATUM: A.H.D.
ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	RE-ISSUED FOR DA ONLY	MS	TC	03.02.2021
02	ISSUED FOR DA ONLY	MS	TC	17.11.2020
01	ISSUED FOR DA ONLY	MS	TC	25.05.2020

Client
FABCOT PTY LTD

Architect
ClarkeHopkinsClarke

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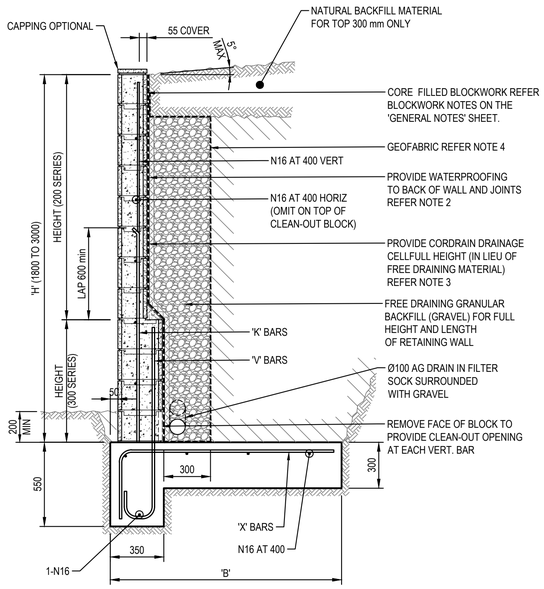
Project
PROPOSED WOOLWORTHS SUPERMARKET
108-116 INGLEBURN RD, LEPPINGTON NSW

Title
STORMWATER CATCHMENT PLAN
OVERALL

Drawn	Designed	Date
M.Stimova	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:2000

Drawing number: 19162_DA_C255
Revision: 03

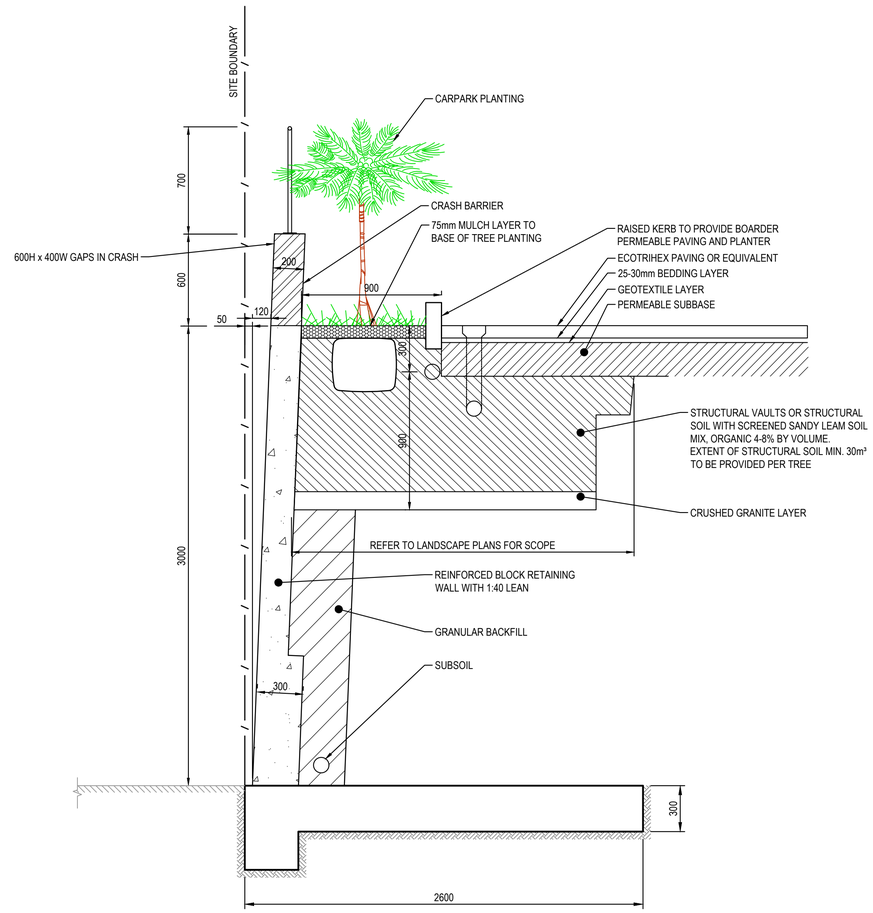


200 OR 300 SERIES BLOCK WALL

15.0 kPa SURCHARGE

RETAINING WALL - 15 kPa TOE IN

SCALE 1:20



SECTION B / C101

SCALE: 1:20

RETAINING WALL SCHEDULE

TOTAL HEIGHT 'H' (mm)	HEIGHT OF BLOCK TYPE		'B' (mm)	'V' & 'X' BARS	'K' BARS
	200 SERIES	300 SERIES			
800	800	-	900	N16 AT 400	-
1000	1000	-	1000	N16 AT 400	-
1200	1200	-	1100	N16 AT 400	-
1400	1400	-	1300	N16 AT 400	-
1600	1600	-	1400	N16 AT 400	-
1800	1800	600	1600	N16 AT 400	-
2000	1400	800	1800	N16 AT 400	N16 AT 400
2200	1400	800	1900	N16 AT 400	N16 AT 400
2400	1400	1000	2100	N16 AT 200	N16 AT 200
2600	1400	1200	2200	N16 AT 200	N16 AT 200
2800	1400	1400	2400	N20 AT 200	N16 AT 200
3000	1400	1600	2600	N20 AT 200	N16 AT 200

NOTES:

1. MINIMUM ALLOWABLE BEARING CAPACITY OF SOIL TO BE 150 KPa.
2. ENSURE REAR FACE OF RETAINING WALL IS FULLY WATERPROOFED. USE EMER-PROOF ECOFLEX OR APPROVED EQUIVALENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION. (2 COATS min. APPLIED IN OPPOSITE DIRECTIONS AND ALLOWED TO CURE FOR 7 DAYS TO BE CONFIRMED BY THE ARCHITECT.
3. INSTALL FULL HEIGHT DRAINAGE CELL TO REAR OF WALL, USE NYLEX CORDRAIN/18 OR APPROVED EQUIVALENT.
4. PROVIDE GEOFABRIC MATERIAL AS SEPARATION BETWEEN GRANULAR BACKFILL (GRAVEL) AND NATURAL BACKFILL MATERIAL. USE BIDIM A24 OR APPROVED EQUIVALENT.

NOTES:

1. MINIMUM ALLOWABLE BEARING CAPACITY OF SOIL TO BE 150 KPa.
2. ENSURE REAR FACE OF RETAINING WALL IS FULLY WATERPROOFED. USE EMER-PROOF ECOFLEX OR APPROVED EQUIVALENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION. (2 COATS min. APPLIED IN OPPOSITE DIRECTIONS AND ALLOWED TO CURE FOR 7 DAYS TO BE CONFIRMED BY THE ARCHITECT.
3. INSTALL FULL HEIGHT DRAINAGE CELL TO REAR OF WALL, USE NYLEX CORDRAIN/18 OR APPROVED EQUIVALENT.
4. PROVIDE GEOFABRIC MATERIAL AS SEPARATION BETWEEN GRANULAR BACKFILL (GRAVEL) AND NATURAL BACKFILL MATERIAL. USE BIDIM A24 OR APPROVED EQUIVALENT.

0 400 800 1200 1600 2000mm

400 200

SCALE 1:20

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY PREMISE
DATUM: A.H.D.
ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR DA	KR	TC	03.02.2021					

Client
FABCOT PTY LTD

Architect
ClarkeHopkinsClarke

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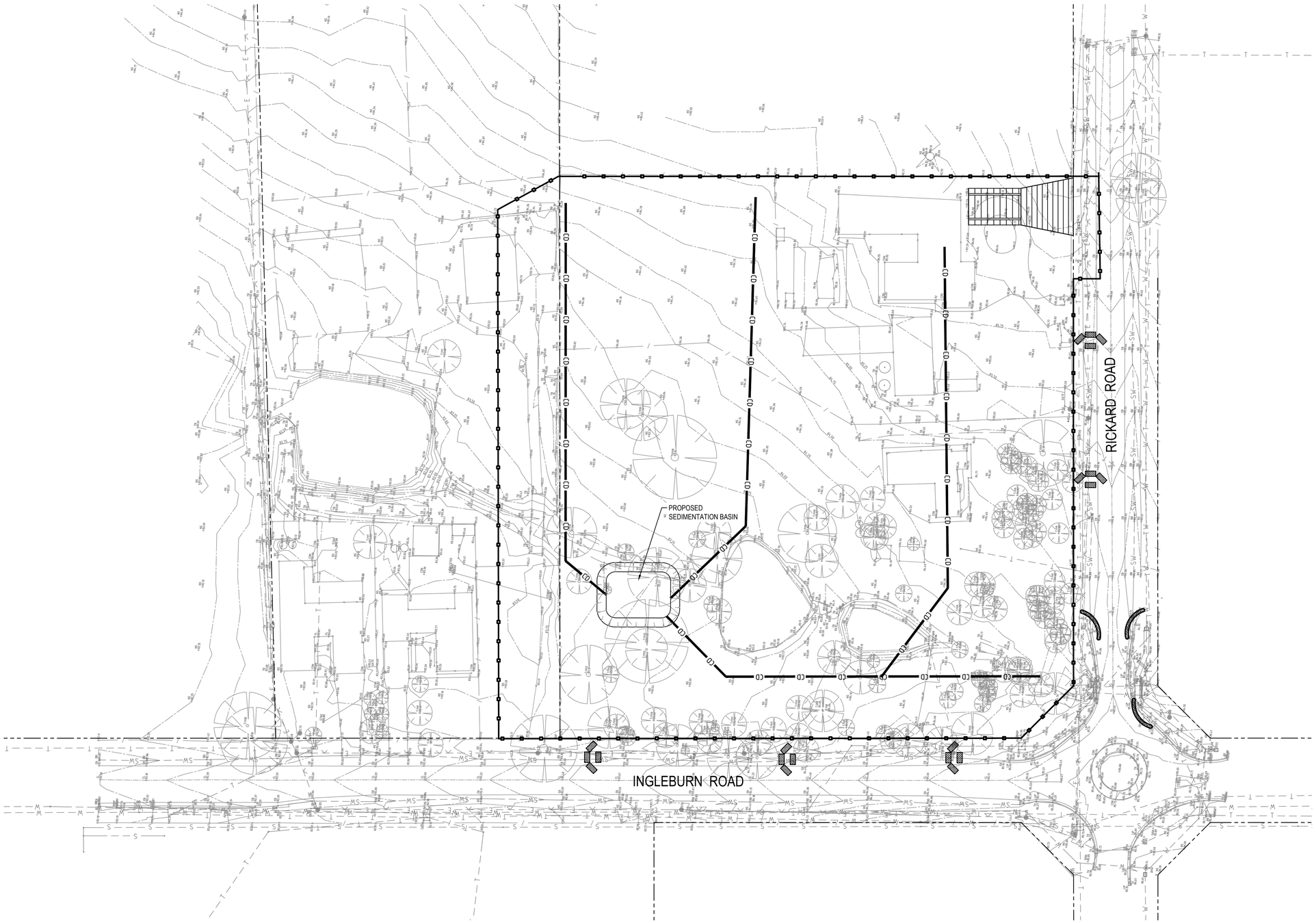
Project
PROPOSED WOOLWORTHS SUPERMARKET
108-116 INGLEBURN RD, LEPPINGTON NSW

Title
RETAINING WALL SECTIONS

Drawn	Designed	Date
M.Stimova	T.Chan	FEB 2021
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	AS NOTED

Drawing number: 19162_DA_C300
Revision: 01



LEGEND

- CATCH DIVERSION DRAIN
- PROPOSED SEDIMENTATION FENCE
- PROPOSED VEHICLE SHAKER GRID
- PROPOSED STABILISED SITE ACCESS
- PROPOSED HAYBALE FILTER
- PROPOSED MESH & GRAVEL INLET FILTER

SEDIMENT AND EROSION CONTROL PLAN

SCALE 1:500

0 10 20 30 40 50m

10 8 6 4 2

SCALE 1:500

FOR DA ONLY

SURVEY INFORMATION

SURVEYED BY PREMISE

DATUM: A.H.D.

ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	RE-ISSUED FOR DA ONLY	MS	TC	17.11.2020
03	RE-ISSUED FOR DA ONLY	MS	TC	25.09.2020
02	ISSUED FOR DA ONLY	KR	TC	27.03.2020
01	ISSUED FOR DA	KR	TC	14.02.2020

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE

Client: FABCOT PTY LTD

Architect: ClarkeHopkinsClarke

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henry&hymas

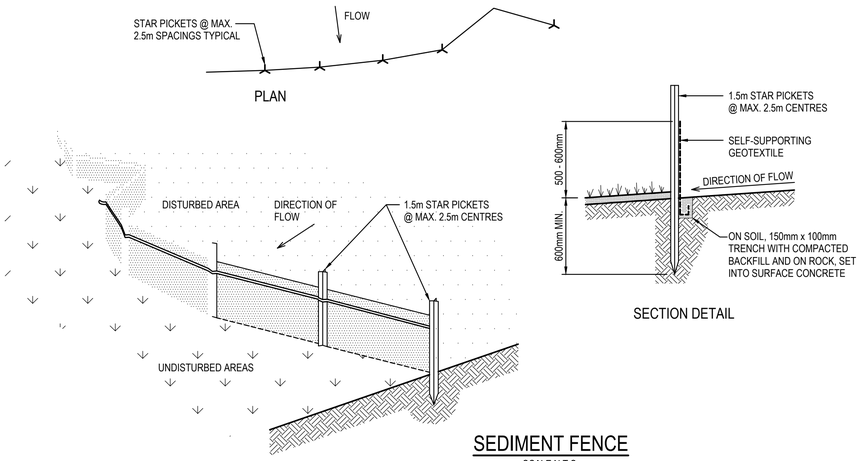
Project: PROPOSED WOOLWORTHS SUPERMARKET
108-116 INGLEBURN RD, LEPPINGTON NSW

Title: SEDIMENT AND EROSION CONTROL PLAN

Drawn	Designed	Date
M.Stimova	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:500

Drawing number: 19162_DA_SE01

Revision: 04

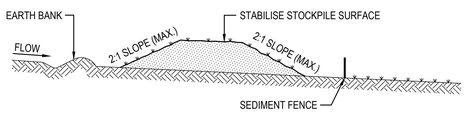


SEDIMENT FENCE

SCALE N.T.S.

SEDIMENT FENCE CONSTRUCTION NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP. 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

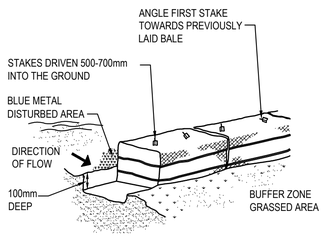


STOCKPILE CONSTRUCTION NOTES:

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. WHERE THEY ARE TO BE PLACED FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED E.S.C.P. OR S.W.M.P. TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

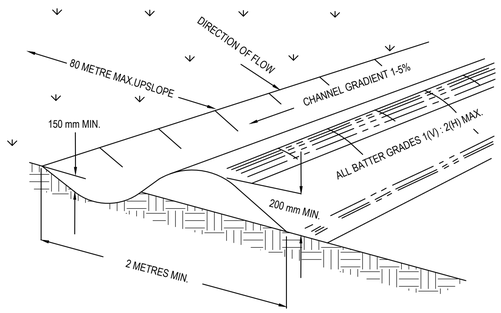
STOCKPILES

SCALE N.T.S.



HAYBALE BARRIERS

N.T.S.



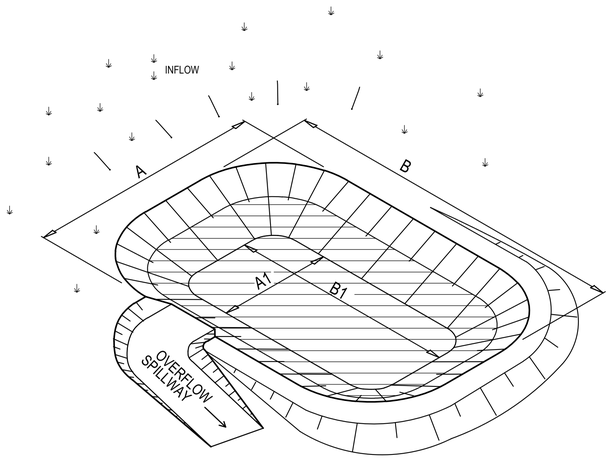
NOTE: ONLY TO BE USED AS TEMPORARY BANK WHERE MAC.UPSLOPE LENGTH IS 80 METERS.

CATCH DRAIN CONSTRUCTION NOTES:

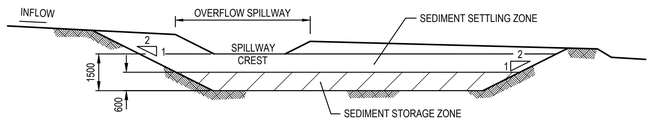
1. CONSTRUCT ALONG GRADIENT AS SPECIFIED.
2. MAXIMUM SPACING BETWEEN BANKS SHALL BE 80 METRES.
3. DRAINS TO BE OF PARABOLIC OR TRAPEZOIDAL CROSS SECTION NOT V-SHAPED.
4. EARTH BANKS TO BE ADEQUATELY COMPACTED IN ORDER TO PREVENT FAILURE.
5. CONSTRUCTION IS OF A TEMPRORARY NATURE AND SHALL BE COMPACTED AT THE END A DAYS WORK OR IMMEDIATELY PRIOR RAIN.
6. ALL OUTLETS FROM DISTURBED LANDS ARE TO FEED INTO SEDIMENT BASIN OR SIMILAR.
7. DISCHARGE RUNOFF COLLECTED FROM UNDISTURBED LANDS ONTO EITHER A STABILISED OR AN UNDISTURBED DISPOSAL AISTE WITHIN THE SAME SUBCATCHMENT AREA FROM WHICH THE WATER ORIGINATED.
8. COMPACT WITH A SUITABLE IMPLEMENT IN SITUATIONS WHERE THEY ARE REQUIRED TO FUNCTION FOR MORE THAN FIVE DAYS.
9. EARTH BANKS TO BE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT WILL IMPEDE NORMAL FLOW.

CATCH DRAINS SD 5-8

SCALE N.T.S.



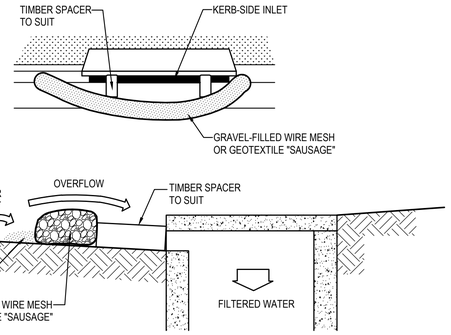
PERSPECTIVE VIEW



TYPICAL SECTION

TYPE 'D' & 'F' SEDIMENTATION BASIN

N.T.S.

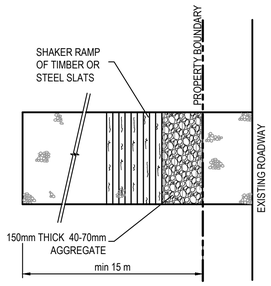


MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES:

1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
3. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
4. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
5. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY CAN FIRMLY ABUT EACH OTHER AND SEDIMENT / LADEN WATERS CANNOT PASS BETWEEN.

MESH & GRAVEL INLET FILTER

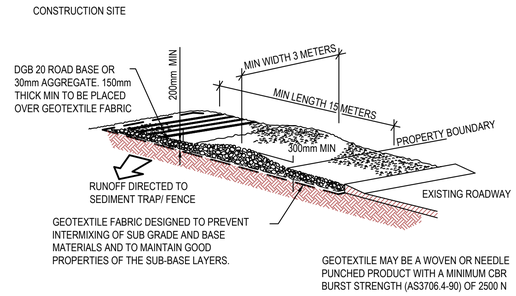
SCALE N.T.S.



PLAN

STABILISED SITE ACCESS WITH SHAKER RAMP

N.T.S.



STABILISED SITE ACCESS WITH SHAKER RAMP

N.T.S.

NOTES:

1. THIS DEVICE IS TO BE LOCATED AT ALL EXITS FROM CONSTRUCTION SITE.
2. THIS DEVICE IS TO BE REGULARLY CLEANED OF DEPOSITED MATERIAL SO AS TO MAINTAIN A 50mm DEEP SPACE BETWEEN PLANKS.
3. ANY UNSEALED ROAD BETWEEN THIS DEVICE AND NEAREST ROADWAY IS TO BE TOPPED WITH 100mm THICK 40-70mm SIZE AGGREGATE.
4. ALTERNATIVELY, THREE(3) PRECAST CONCRETE CATTLE GRIDS (AS MANUFACTURED BY "HUMES CONCRETE MAY BE USED. 1, 2 & 3 ABOVE ALSO APPLY.

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY PREMISE
DATUM: A.H.D.
ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	RE-ISSUED FOR DA ONLY	MS	TC	17.11.2020
03	RE-ISSUED FOR DA ONLY	MS	TC	25.09.2020
02	ISSUED FOR DA ONLY	KR	TC	27.03.2020
01	ISSUED FOR DA	KR	TC	14.02.2020

Client: FABCOT PTY LTD

Architect: ClarkeHopkinsClarke

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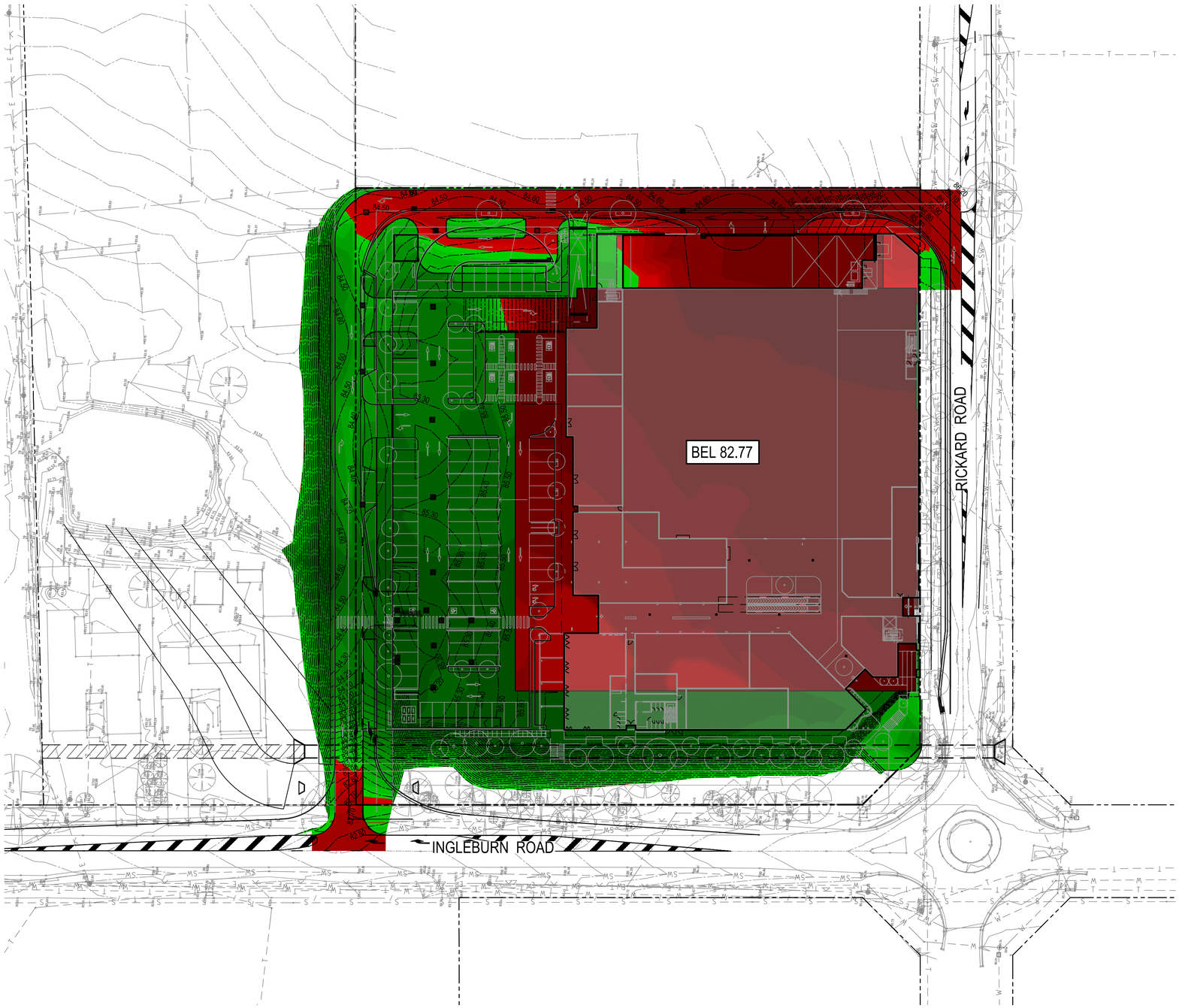
Project: PROPOSED WOOLWORTHS SUPERMARKET 108-116 INGLEBURN RD, LEPPINGTON NSW

Title: SEDIMENT AND EROSION CONTROL TYPICAL DETAILS

Drawn	Designed	Date
M.Stimova	T.Chan	JAN 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	NTS

Drawing number: 19162_DA_SE02
Revision: 04



BULK EARTHWORKS CUT/FILL PLAN

SCALE 1:500

BULK EARTHWORKS/ SUBGRADE PREPARATION - SITEWORKS.

1. REFER TO GEOTECHNICAL INVESTIGATION REPORT OR INFORMATION RELATING TO EXISTING GROUND CONDITIONS, SITE TREATMENT AND SUPERVISION.
2. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM SURVEY AND AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.
3. HENRY AND HYMAS PTY LTD CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS, ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN ARISING FROM ANY CAUSE WHATSOEVER.
   CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION.
   FOR COMMENCEMENT OF WORKS ON SITE, SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.
4. ALL SERVICES ARE TO BE LOCATED AND CUT OFF PRIOR TO THE COMMENCEMENT OF EXCAVATION AND FILLING OPERATIONS.
5. ALL TOP SOIL, ORGANIC MATTER AND FILL MATERIAL SHALL BE REMOVED FROM ALL AREAS UNDER BUILDING AND CARPARK LOCATIONS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER. AREAS TO BE FULLY STRIPPED OF EXISTING FILL AND DARK BROWN BLACK UPPER ORGANIC ALLUVIUM, OR OBVIOUS UNSUITABLE MATERIAL.
6. EXCAVATE TO ACHIEVE SUBGRADE LEVELS WHERE NECESSARY.
7. THE EXPOSED SUBGRADE AFTER STRIPPING AND/ OR EXCAVATION IS TO BE PROOF ROLLED USING NOT FEWER THAN 5 PASSES OF A MINIMUM 8 TONNE DEAD WEIGHT STEEL SMOOTH-DRUM ROLLER UNDER THE SUPERVISION OF AN EXPERIENCED GEOTECHNICAL ENGINEER OR AN EXPERIENCED CIVIL ENGINEER. ANY AREAS ON THE SUBGRADE EXHIBITING EXCESSIVE DEFLECTION / MOVEMENT UNDER ROLLER TO BE EXCAVATED TO A MIN. DEPTH OF 0.5m AND REPLACED WITH APPROVED GRANULAR MATERIAL COMPACTED IN 250mm LOOSE LAYERS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
8. ENGINEERED FILL FOR REPLACEMENT OF SOFT OR HEAVING AREAS OR FOR BULK FILLING TO COMPRISE ESSENTIALLY OF GRANULAR MATERIALS (EG. EXCAVATED SHALE), WITH A PARTICLE SIZE NOT GREATER THAN 75mm DIAMETER. ENGINEERED FILL TO BE PLACED IN LAYERS NOT EXCEEDING 250mm LOOSE THICKNESS AND COMPACTED TO 100% OF STANDARD MAXIMUM DRY DENSITY (SMDD) WITHIN ± 2% OF OPTIMUM MOISTURE CONTENT (OMC).
9. IMPORTED FILLING (IF REQUIRED) IS TO BE TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR IS TO NOMINATE THE SOURCE AND PROVIDE A SAMPLE FOR APPROVAL PRIOR TO IMPORTATION AND PLACEMENT ON SITE.
10. ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING.
    FREE FORM ORGANIC AND PERISHABLE MATTER
    MAXIMUM PARTICLE SIZE = 75mm
    MAXIMUM PLASTICITY INDEX = 15%
11. ALL EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH GEOTECH REPORT

DEPTH OF CUT & FILL RANGE				
LOWER VALUE		UPPER VALUE		COLOUR
-3.0	to	-2.0	m	
-2.0	to	-1.5	m	
-1.5	to	-1.0	m	
-1.0	to	-0.8	m	
-0.8	to	-0.6	m	
-0.6	to	-0.4	m	
-0.4	to	-0.2	m	
-0.2	to	-0.1	m	
-0.1	to	-0.05	m	
-0.05	to	0.0	m	
0.0	to	0.05	m	
0.05	to	0.1	m	
0.1	to	0.2	m	
0.2	to	0.4	m	
0.4	to	0.6	m	
0.6	to	0.8	m	
0.8	to	1.0	m	
1.0	to	1.5	m	
1.5	to	2.0	m	
2.0	to	4.0	m	

LEGEND

— — — — — —	EXISTING BOUNDARY
472.00	CONTOURS BE
BEL 24.50	BULK EARTHWORKS LEVEL

BULK EARTHWORKS QUANTITIES		
TOTAL AREA (16,870 m²)		
CUT	16,419	m³
FILL	8,527	m³
EXCESS OF CUT OVER FILL	7,892	m³
EXCAVATION FOR RETAINING WALLS NOT INCLUDED IN CALCULATION		
EXCAVATION FOR SERVICE TRENCHES NOT INCLUDED IN CALCULATION		
THE VOLUME ABOVE HAS BEEN CALCULATED AFTER STRIPPING THE EXISTING TOPSOIL. TOP STRIPPING DEPTH 100mm		

0 10 20 30 40 50m
10 8 6 4 2
SCALE 1:500

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY PREMISE
DATUM: A.H.D.
ORIGIN OF LEVELS: PM44283 RL85.68

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR DA ONLY	MS	BH	17.11.2020
03	ISSUED FOR DA ONLY	JK	BH	17.04.2020
02	ISSUED FOR DA ONLY	BH	BH	27.03.2020
01	ISSUED FOR DA ONLY	BH	BH	18.02.2020

Client: FABCOT PTY LTD
Architect: ClarkeHopkinsClarke

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Project: PROPOSED WOOLWORTHS SUPERMARKET 108-116 INGLEBURN RD, LEPPINGTON NSW
Title: BULK EARTHWORKS CUT/FILL PLAN

Drawn	Designed	Date
B.Hurlstone	B.Hurlstone	FEB 2020
Checked	Approved	Scale @A1
T.Rozehnal	A.Francis	1:500

Drawing number: 19162_DA_BE01
Revision: 04