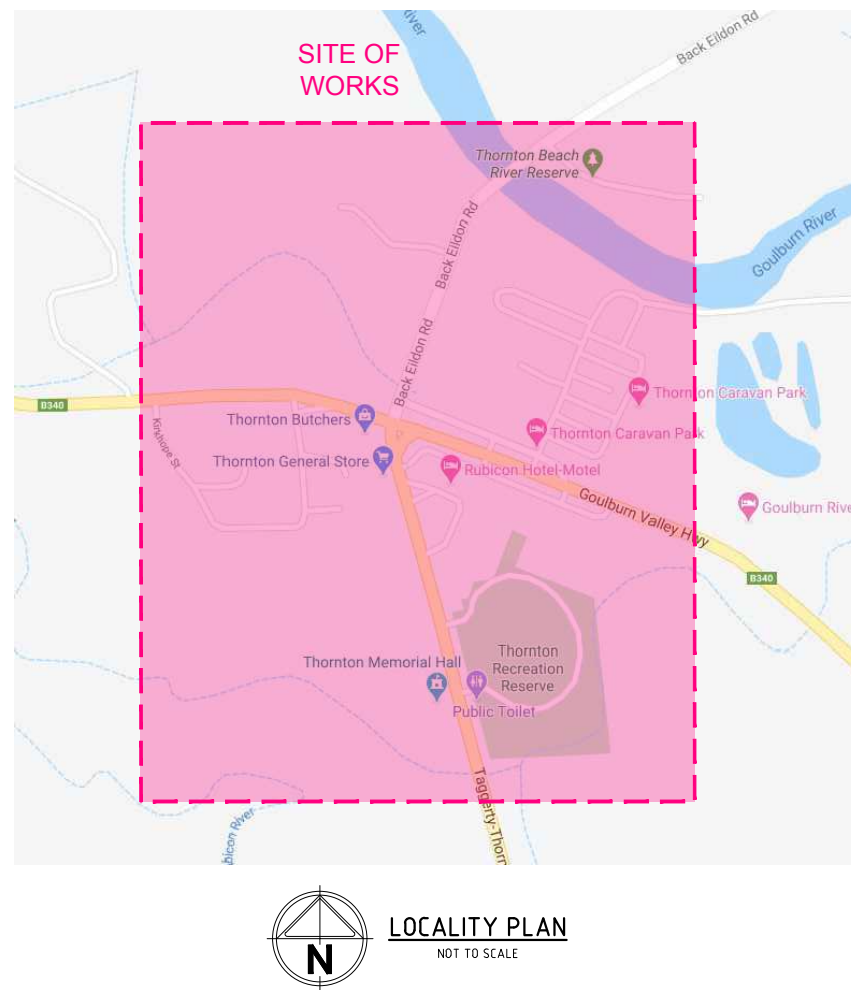


MURRINDINDI SHIRE COUNCIL

THORNTON STORMWATER DRAINAGE PROJECT

THORNTON, VICTORIA 3712

DRAWING SCHEDULE		
DRAWING	DRAWING TITLE	REVISION
3329/C01	COVER SHEET	F
3329/C02	GENERAL SPECIFICATIONS	F
3329/C03	OVERALL LAYOUT PLAN	F
3329/C04	EXISTING CONDITIONS (1 OF 11)	F
3329/C05	EXISTING CONDITIONS (2 OF 11)	F
3329/C06	EXISTING CONDITIONS (3 OF 11)	F
3329/C07	EXISTING CONDITIONS (4 OF 11)	F
3329/C08	EXISTING CONDITIONS (5 OF 11)	F
3329/C09	EXISTING CONDITIONS (6 OF 11)	F
3329/C10	EXISTING CONDITIONS (7 OF 11)	F
3329/C11	EXISTING CONDITIONS (8 OF 11)	F
3329/C12	EXISTING CONDITIONS (9 OF 11)	F
3329/C13	EXISTING CONDITIONS (10 OF 11)	F
3329/C14	EXISTING CONDITIONS (11 OF 11)	F
3329/C15	EXISTING LONG SECTIONS (1 OF 9)	F
3329/C16	EXISTING LONG SECTIONS (2 OF 9)	F
3329/C17	EXISTING LONG SECTIONS (3 OF 9)	F
3329/C18	EXISTING LONG SECTIONS (4 OF 9)	F
3329/C19	EXISTING LONG SECTIONS (5 OF 9)	F
3329/C20	EXISTING LONG SECTIONS (6 OF 9)	F
3329/C21	EXISTING LONG SECTIONS (7 OF 9)	F
3329/C22	EXISTING LONG SECTIONS (8 OF 9)	F
3329/C23	EXISTING LONG SECTIONS (9 OF 9)	F
3329/C24	EXISTING PIT SCHEDULE	F
3329/C25	DEMOLITION PLAN (SHEET 1 OF 11)	F
3329/C26	DEMOLITION PLAN (SHEET 2 OF 11)	F
3329/C27	DEMOLITION PLAN (SHEET 3 OF 11)	F
3329/C28	DEMOLITION PLAN (SHEET 4 OF 11)	F
3329/C29	DEMOLITION PLAN (SHEET 5 OF 11)	F
3329/C30	DEMOLITION PLAN (SHEET 6 OF 11)	F
3329/C31	DEMOLITION PLAN (SHEET 7 OF 11)	F
3329/C32	DEMOLITION PLAN (SHEET 8 OF 11)	F
3329/C33	DEMOLITION PLAN (SHEET 9 OF 11)	F
3329/C34	DEMOLITION PLAN (SHEET 10 OF 11)	F
3329/C35	DEMOLITION PLAN (SHEET 11 OF 11)	F
3329/C36	CATCHMENT AREAS	F
3329/C37	LAYOUT PLAN (SHEET 1 OF 11)	F
3329/C38	LAYOUT PLAN (SHEET 2 OF 11)	F
3329/C39	LAYOUT PLAN (SHEET 3 OF 11)	F
3329/C40	LAYOUT PLAN (SHEET 4 OF 11)	F
3329/C41	LAYOUT PLAN (SHEET 5 OF 11)	F
3329/C42	LAYOUT PLAN (SHEET 6 OF 11)	F
3329/C43	LAYOUT PLAN (SHEET 7 OF 11)	F
3329/C44	LAYOUT PLAN (SHEET 8 OF 11)	F
3329/C45	LAYOUT PLAN (SHEET 9 OF 11)	F
3329/C46	LAYOUT PLAN (SHEET 10 OF 11)	F
3329/C47	LAYOUT PLAN (SHEET 11 OF 11)	F
3329/C48	DESIGN LONG SECTIONS (1 OF 9)	F
3329/C49	DESIGN LONG SECTIONS (2 OF 9)	F
3329/C50	DESIGN LONG SECTIONS (3 OF 9)	F
3329/C51	DESIGN LONG SECTIONS (4 OF 9)	F
3329/C52	DESIGN LONG SECTIONS (5 OF 9)	F
3329/C53	DESIGN LONG SECTIONS (6 OF 9)	F
3329/C54	DESIGN LONG SECTIONS (7 OF 9)	F
3329/C55	DESIGN LONG SECTIONS (8 OF 9)	F
3329/C56	DESIGN LONG SECTIONS (9 OF 9)	F
3329/C57	DESIGN PIT SCHEDULE	F



LEGEND

	TEMPORARY BENCH MARK		STORM WATER PIT (EXISTING)
	KERB & CHANNEL (EXISTING)		STORM WATER PIPE (EXISTING)
	FENCE		STORM WATER PIPE (EXISTING/DISCHARGING)
	FOOTPATH / CONCRETE EDGE		STORM WATER PIPE (REMOVE)
	BATTER TOP (RETAIN)		STORM WATER PIT GRATED (PROPOSED)
	BATTER TOE (RETAIN)		STORM WATER PIT (SEP) (PROPOSED)
	BATTER TOP (REMOVE)		STORM WATER PIT (HAUNCHED) (PROPOSED)
	BATTER TOE (REMOVE)		STORM WATER JUNCTION PIT (PROPOSED)
	OPEN DRAIN INVERT		STORM WATER PIT (REMOVE)
	EDGE OF BITUMEN		STORM WATER PIT (RETAIN)
	TREE PROTECTION ZONE		PIT IDENTIFIER (EXISTING)
	TREE (EXISTING)		PIT IDENTIFIER (PROPOSED)
	STRUCTURAL ROOT ZONE		STORM WATER PIPE (PROPOSED)
	TREE LINE		STORM WATER PIPE (EXISTING RETAINED)
	BUILDING SHED EDGE		HEAD WALL
	BUILDING EAVE		SIGN
	OVERHEAD ELECTRICITY		GUIDE POST
	UNDERGROUND ELECTRICITY		BOLLARD
	ELECTRICITY POLE		MAJOR CONTOURS @ 0.500m INTERVALS
	ELECTRICITY POLE WITH LIGHT		MINOR CONTOURS
	ELECTRICITY PIT		ROAD PAVEMENT TO BE REMOVED
	LIGHT POLE		LANDSCAPING TO BE REMOVED
	TELECOMMUNICATION MAIN		GRAVEL PAVEMENT
	TELECOMMUNICATION PIT		PROPOSED SEALED PAVEMENT
	TELECOMMUNICATION PILLAR		LANDSCAPED AREA
	WATER MAIN (EXISTING)		
	WATER ISOLATION VALVE (EXISTING)		
	WATER HYDRANT (EXISTING)		
	WATER METER (EXISTING)		
	WATER MAIN ALTERATION SITES		

NOTE!
THIS DRAWING SET IS TO BE READ IN CONJUNCTION WITH THE CURRENT ADOPTED VERSION OF THE INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS.



WARNING!
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY & THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

WARNING!
BEWARE OF OPTICAL FIBRE IN AREA
MAJOR CABLES EXIST IN THE AREA
CONTACT TELSTRA ON 1800 244 573 AT LEAST TWO BUSINESS DAYS BEFORE STARTING ACTIVITY

1/10/2021 3:11:21 PM 3329 C01.DWG

ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED EZDESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL	Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT	Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL	Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Property:	-	Drawing No:	3329 / C01	Sheet:	1 of 57
Title:	COVER SHEET	Size:	A1	Issue:	F

1/10/2021 3:11:27 PM 3329 C01.DWG

-	-	-
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED EZDESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



WARNING!
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE
APPROXIMATE ONLY & THEIR EXACT POSITION
SHOULD BE PROVEN ON SITE. NO GUARANTEE IS
GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

WARNING!
BEWARE OF OPTICAL FIBRE IN AREA
MAJOR CABLES EXIST IN THE AREA
CONTACT TELSTRA ON 0800 246 579 AT LEAST
TWO BUSINESS DAYS BEFORE STARTING ACTIVITY

GENERAL

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
- ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 55.
- ALL WORKS TO BE ACCURATELY SETOUT BEFORE COMMENCING EXCAVATION WORK.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL GENERAL SPECIFICATION AND LATEST ADOPTED VERSION OF THE INFRASTRUCTURE DESIGN MANUAL.
- TEMPORARY BENCH MARKS (TBM) TO BE RE-ESTABLISHED BY A SUITABLY QUALIFIED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBM'S THEREAFTER.
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.

SERVICES

- ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT. THE CONTRACTOR MUST DETERMINE EXACT LOCATION AND DEPTH OF AUTHORITY SERVICE PRIOR TO THE COMMENCEMENT OF ANY WORKS.
- CONTRACTOR TO MAKE ALLOWANCE FOR DEVIATION OF SERVICE WHERE REQUIRED AS PART OF THEIR CONTRACT WORKS. ANY AND ALL WORKS ARE TO BE COMPLETED IN ACCORDANCE WITH AUTHORITY REQUIREMENTS.
- ALL STATUTORY AUTHORITY SERVICES MUST BE MAINTAINED AND PROTECTED BY THE CONTRACTOR AT ALL TIMES UNLESS OTHERWISE SHOWN.
- THE LOCATION OF ALL UNDERGROUND SERVICES ARE TO BE PHYSICALLY LOCATED BY NON-DESTRUCTIVE EXCAVATION PRIOR TO THE COMMENCEMENT OF ANY WORKS.
- ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS, FOOTPATHS AND KERB TO BE BACKFILLED WITH 2% CEMENT TREATED CLASS 2 CRUSHED ROCK.
- ALL EXISTING PITS AND SERVICE FITTINGS THAT ARE TO REMAIN WITHIN THE PAVEMENT AREAS SHALL BE REBUILT TO MATCH PROPOSED LEVELS AND WHERE APPLICABLE FITTED WITH AN APPROPRIATE HEAVY DUTY, AUTHORITY APPROVED, COVER. ELSEWHERE EXISTING SERVICES SHALL BE ADJUSTED TO SUIT NEW ADJACENT LEVELS. THE RELEVANT AUTHORITY IS TO BE NOTIFIED PRIOR TO ANY WORKS ON THEIR ASSETS AND SERVICES ARE TO BE ADJUSTED BY OR TO THE RELEVANT AUTHORITY REQUIREMENTS.

DEMOLITION

- EXISTING STORMWATER DRAINAGE PIPE WORK LOCATIONS SHOW ARE AS IDENTIFIED THROUGH PIT INVESTIGATIONS, TRUE ALIGNMENT MAY DIFFER FROM WHAT IS SHOWN.
- WHERE EXISTING FEATURES AND REDUNDANT SERVICES ARE TO BE REMOVED, EXCAVATIONS ARE TO BE BACKFILLED WITH SUITABLE FCR OR APPROVED MATERIAL AND BACKFILLED TO EXISTING SURFACE LEVEL.
- EXISTING TREES TO BE REMOVED ARE TO BE SAW CUT, GRUBBED AND REMOVED OFF SITE TO AN APPROVED LOCATION.

DRAINAGE

- REFER TO PIT SCHEDULE FOR SETOUT DETAILS.
- ALL PITS SHALL BE CAST IN-SITU OR AN APPROVED PRECAST EQUIVALENT.
- CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF AS1379.
- DRAINAGE PIPES SHALL NOT BE LAID WITHIN FILL WITHOUT THE APPROVAL OF THE SUPERINTENDENT. ADDITIONAL COVER MAY BE PLACED OVER DRAINAGE PIPE TO PROTECT THEM FROM CONSTRUCTION TRAFFIC WHERE REQUIRED.
- ALL PIPES TO BE BACKFILLED AS PER IDM SD310. ALL PITS TO BE TRAFFICABLE CLASS 'D' LIDS.
- PRIOR TO COMMENCING WORK THE CONTRACTOR SHALL ESTABLISH A SEDIMENT CONTROL PERIMETER, USING AN APPROVED DIVERSION OR INTERCEPTION METHOD.
- ALL WORKS TO BE ACCURATELY SETOUT BEFORE COMMENCING EXCAVATION WORK.
- CONCRETE PIPES TO BE CLASS 2 AND RUBBER RING JOINT. PIPES SHALL CONFORM WITH AS/NZS 4058:2007 PRECAST CONCRETE PIPES UNLESS OTHERWISE STATED.
- PIPES SHALL BE INSTALLED IN ACCORDANCE WITH AS/NZS 3725: 2007 DESIGN FOR INSTALLATION OF BURIED CONCRETE PIPES.
- HEADWALL JOINTS SHALL BE A FLEXIBLE DURABLE SEALANT.
- ALL TRENCHES SHALL BE CUT IN A MANNER THAT PIPES WILL BE LAID LEVELED WITHOUT SAG POINTS. CULVERT LENGTHS ARE PIPE INLET TO PIPE OUTLET.
- ALL TRENCHING WORKS SHALL BE SUITABLY BARRICADED FOR ROAD USERS.
- ALL EXCAVATED MATERIALS SHALL BE STACKED AT LEAST 4m AWAY FROM THE EDGE OF THE SHOULDER.

- UNSUITABLE MATERIAL GENERATED FROM EXCAVATION SHALL NOT BE USED IN BACKFILLING WORKS AND SHALL BE DISPOSED OF AT AN APPROVED LOCATION.
- THE BEDDING ADJACENT TO THE PIPE JOINTS SHALL BE RECESSED AS NECESSARY TO ENSURE THAT THE WHOLE OF THE BARREL LENGTH OF THE PIPE MAKES UNIFORM CONTACT WITH THE PREPARED BEDDING.
- BACKFILLING SHALL BE BUILT UP IN 150mm LAYERS AND MECHANICALLY COMPACTED EVENLY ON BOTH SIDES OF THE PIPE IN ORDER TO EFFECT BALANCED LOADING.
- BATTERS TO THE TOP OF THE END WALLS SHALL BE PROPERLY FILLED.
- EXPPOSED EDGES OF THE STRUCTURE SHALL HAVE 20mm X 20mm CHAMFERS.

LINE MARKING

- LINE MARKING IS TO BE INSTALLED AS SPECIFIED AND SHOWN ON THESE PLANS AND IN ACCORDANCE WITH AS 1742 AND AS 2890 SERIES UNLESS NOTED OTHERWISE.
- LINE MARKING TO BE APPROVED LONG LIFE ROAD MARKING PAINT.
- LATERAL WORKS AND SYMBOLS TO BE COLD APPLIED PLASTIC TROWELLED INTO PLACE.

CONCRETE NOTES

- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS, CCAA LITERATURE AND VICROADS SPECIFICATIONS.
- ALL CONCRETE TO BE MINIMUM 32 MPa COMPRESSIVE STRENGTH, UNLESS OTHERWISE STATED.
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- ALL DOWELS TO BE GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTERS. REFER CCAA- CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK".
- INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.
- PEDESTRIAN CROSSINGS IN ACCORDANCE WITH IDM SD-200 AND AS 1428 SET.
- FOOTPATHS IN ACCORDANCE WITH IDM SD-205.
- CONCRETE JOINTS IN ACCORDANCE WITH IDM SD-210, SD-220 & SD-225.
- ROADWAY NOT TO BE USED AS BOXING FOR CONCRETE WORKS

ENVIRONMENTAL

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENVIRONMENTAL PROTECTION AND THE IMPLEMENTATION OF A SITE ENVIRONMENTAL MANAGEMENT PLAN (SEMP) PREPARED IN ACCORDANCE WITH THE EPA'S "ENVIRONMENTAL GUIDELINES FOR MAJOR CONSTRUCTION SITES" AND "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL".
- ALL PERSONNEL ON SITE INCLUDING SUBCONTRACTORS ARE TO BE INDUCTED ON THE REQUIREMENTS OF THE SEMP.
- THE SEMP IS TO BE DISPLAYED ON SITE AND REGULAR TOOLBOX MEETINGS HELD TO REINFORCE REQUIREMENTS.
- ENVIRONMENTAL PROTECTION MEASURES ARE TO BE INSPECTED BY THE CONTRACTOR A MINIMUM OF 2 TIMES PER WEEK AND PRIOR TO AND AFTER ANY STORM EVENT. ANY DEFICIENCIES IN PROTECTION MEASURES ARE TO BE RECORDED AND RECTIFIED WITHIN 24 HOURS OF IDENTIFICATION.
- THE CONTRACTOR SHALL MAINTAIN DOCUMENTATION INCLUDING BUT NOT LIMITED TO RECORDS OF INSPECTION OF PROTECTION MEASURES, IDENTIFICATION AND RECTIFICATION OF DEFICIENCIES, INCIDENT REPORTS, INDUCTION CHECKLISTS AND MINUTES OF TOOLBOX MEETINGS.

TRAFFIC MANAGEMENT

- TRAFFIC MANAGEMENT SHALL BE ARRANGED BY THE CONTRACTOR FOR THE DURATION OF THE WORKS TO THE SATISFACTION OF COUNCIL INCLUDING PROVISION OF ALL NECESSARY SIGNAGE, LIGHTING AND BARRICADING.
- A TRAFFIC MANAGEMENT PLAN SHALL BE SUBMITTED TO COUNCIL AND RRV FOR APPROVAL PRIOR TO COMMENCEMENT OF WORKS.

IDM STANDARD DRAWING SCHEDULE	
DRAWING No.	TITLE
SD 100	TYPICAL KERB PROFILES 'B', 'SM' AND 'M' TYPE
SD 110	TYPICAL KERB BEDDING DETAIL
SD 130	KERB & CHANNEL INSTALLATION ABUTTING EXISTING PAVEMENT
SD 205	TYPICAL FOOTPATH DETAIL
SD 210	TYPICAL FOOTPATH JOINTS
SD 220	REINFORCED CONCRETE PAVEMENT ISOLATION JOINT
SD 225	REINFORCED CONCRETE PAVEMENT TYPICAL JOINT DETAILS
SD 310	TRENCH BACKFILL (TRENCHES WITHIN 1m OF COUNCIL ASSETS
SD 400	TYPICAL PIT DIMENSIONING
SD 405	UNHAUNCHED PITS
SD 410	HAUNCHED PITS
SD 415	CONCRETE PIT REINFORCEMENT WALL THICKNESS
SD 420	JUNCTION PIT IN ROAD RESERVE
SD425	JUNCTION PIT WITH CONCRETE COVER (NON-TRAFFICABLE AREAS)
SD 431	900 x 600mm SIDE ENTRY PIT
SD 455	DEPRESSED GRATED PIT
SD 475	GRATED SIDE ENTRY PIT INLET
SD 497	REINFORCED CONCRETE WINGWALL
SD 498	CONCRETE ENDWALL FOR PIPES UP TO 375mmØ

REFERENCED DRAWING SCHEDULE		
WETLANDS DESIGNS (EZDESIGNLABS)		
M1108_01 (SET)	THORNTON SUBSURFACE WETLAND PLANTING SCHEDULES	REV D
WETLAND DESIGNS (SPEL SYSTEMS)		
SP21-OL32910-P SHEET 1	BACK EILDON ROAD SUBSURFACE FLOW WETLANDS	REV 2
SP21-OL32910-P SHEET 2	BACK EILDON ROAD SUBSURFACE FLOW WETLANDS	REV 2
PUMP CONTROL ELECTRICAL SUPPLY (KEY CONSULT)		
21107-E001	LOCALITY PLAN AND DRAWING INDEX	I1
21107-E002	GENERAL NOTES AND LEGEND OF SYMBOLS	I1
21107-E003	CONDUIT RETICULATION LAYOUT	I1
21107-E010	SINGLE LINE DIAGRAM - DP-1	I1
WATER MAIN REPLACEMENTS (CIV ENG DESIGN)		
PR211005 (SET)	GVW WATER MAIN REPLACEMENTS	REV B



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

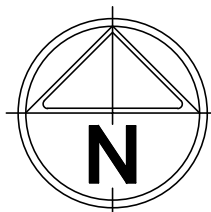
Client: MURRINDINDI SHIRE COUNCIL		Surveyed: M.V & K.M 22/06/2020	Drawn: S.GALEA 27/07/2020
Project Name: THORNTON STORMWATER DRAINAGE PROJECT		Designed: S.GALEA 27/07/2020	Approved: N.Y.-HUSABND 01/10/2021
Location: THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL		Cad File: 3329 C01.DWG	Size: A1
Property: -		Scale: SCALE AS SHOWN	
Title: GENERAL NOTES		Drawing No:	Shit:
-		3329 / C02	2 of 57
			F

1/10/2021 7:20:31 PM 3329 C01.DWG

-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL		Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT		Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL		Cad File:	3329 C01.DWG		Size: A1
Property:	-		Scale:	SCALE AS SHOWN		
Title:	OVERALL LAYOUT PLAN		Drawing No:	3329 / C03	Shr:	3 of 57
	-				Issue:	F



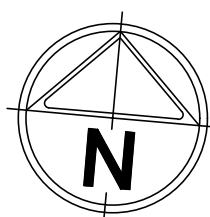
A SEE CONTINUATION / A
3329 / C05

1/10/2021 7:21:14 PM 3329 C01.DWG

ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL	Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT	Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Location:	THORNTON, VICTORIA 3712	Cad File:	3329 C01.DWG	Size:	A1
Property:	MURRINDINDI SHIRE COUNCIL	Scale:	SCALE AS SHOWN	Sheet:	4 of 57
Title:	EXISTING CONDITIONS (1 OF 11)	Drawing No:	3329 / C04	Issue:	F



A SEE CONTINUATION 3329 / C04

B SEE CONTINUATION 3329 / C06

SEE CONTINUATION 3329 / C13

SEE CONTINUATION 3329 / C14

ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER

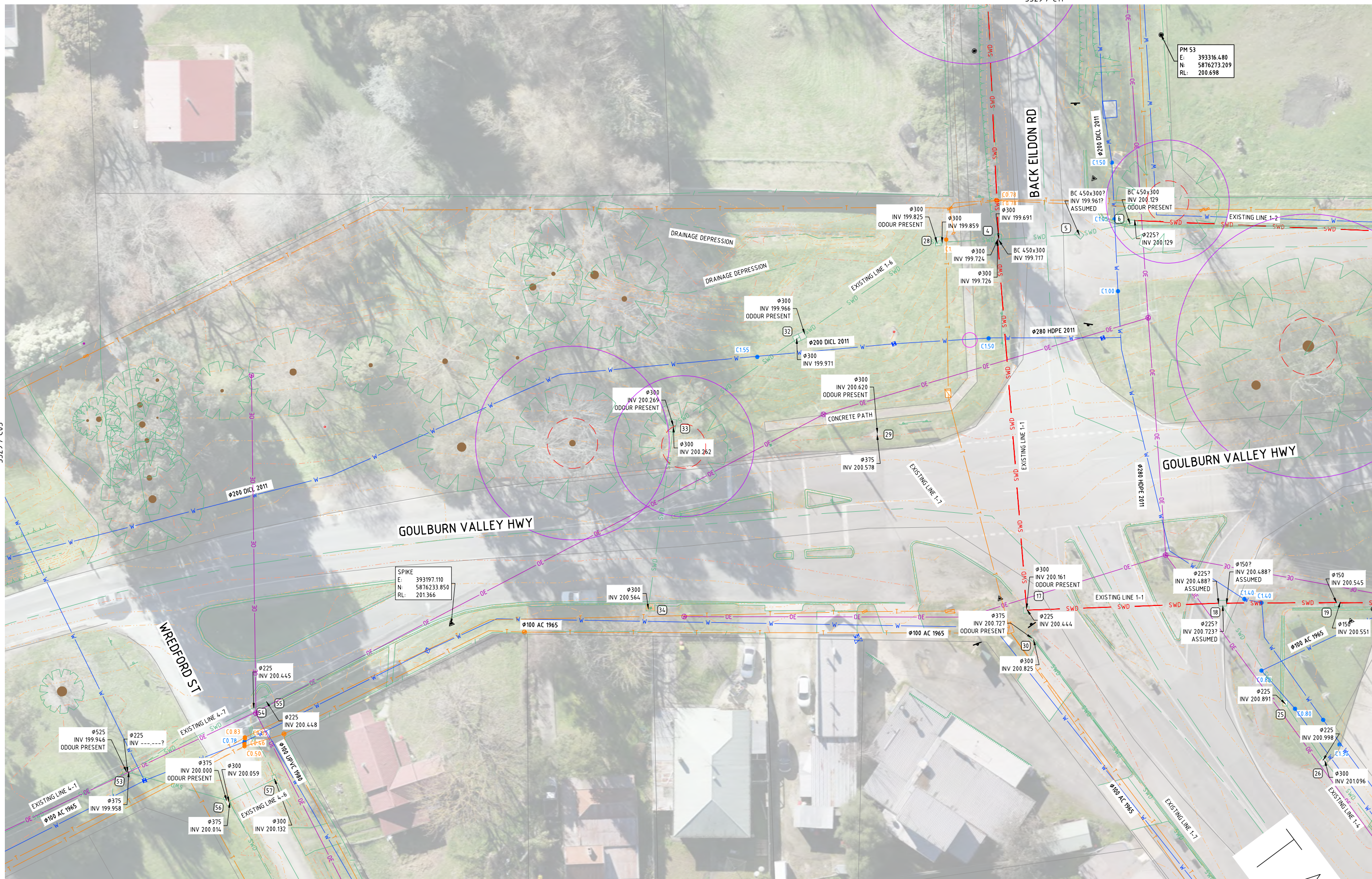


abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	EXISTING CONDITIONS (2 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Cad File:	3329 C01DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C05	Sheet:	5 of 57
Issue:	-	Size:	A1

1/10/2021 12:14:17 PM 3329 C01DWG



SEE CONTINUATION

E 3329 / C09 E

-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	26/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC
3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafcconsulting.com.au
w: cafcconsulting.com.au

Client: MURRINDINDI SHIRE COUNCIL		Surveyed: M.V & K.M 22/06/2020	Drawn: S.GALEA 27/07/2020
Project Name: THORNTON STORMWATER DRAINAGE PROJECT	Designed: S.GALEA 27/07/2020	Approved: N.Y.-HUSABND 01/10/2021	Size: A1
Location: THORNTON TOWNSHIP THORNTON, VICTORIA 3712			
Property: MURRINDINDI SHIRE COUNCIL	Cad File: 3329 C01DWG Scale: SCALE AS SHOWN	Sht:	Issue:
Title: EXISTING CONDITIONS (3 OF 11)	Drawing No: 3329 / C06 6 of 57		F

SEE CONTINUATION
3329 / C06

SEE CONTINUATION
3329 / C08



SEE CONTINUATION
3329 / C09

ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abr: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL	Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT	Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Location:	THORNTON TOWNSHIP	Cad File:	3329 C01.DWG	Size:	A1
Property:	THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL	Scale:	SCALE AS SHOWN		
Title:	EXISTING CONDITIONS (4 OF 11)	Drawing No:	3329 / C07	Sheet:	7 of 57
				Issue:	F

11/10/2021 1:23:39 PM 3329 C01.DWG



SEE CONTINUATION
3329 / C07

ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER

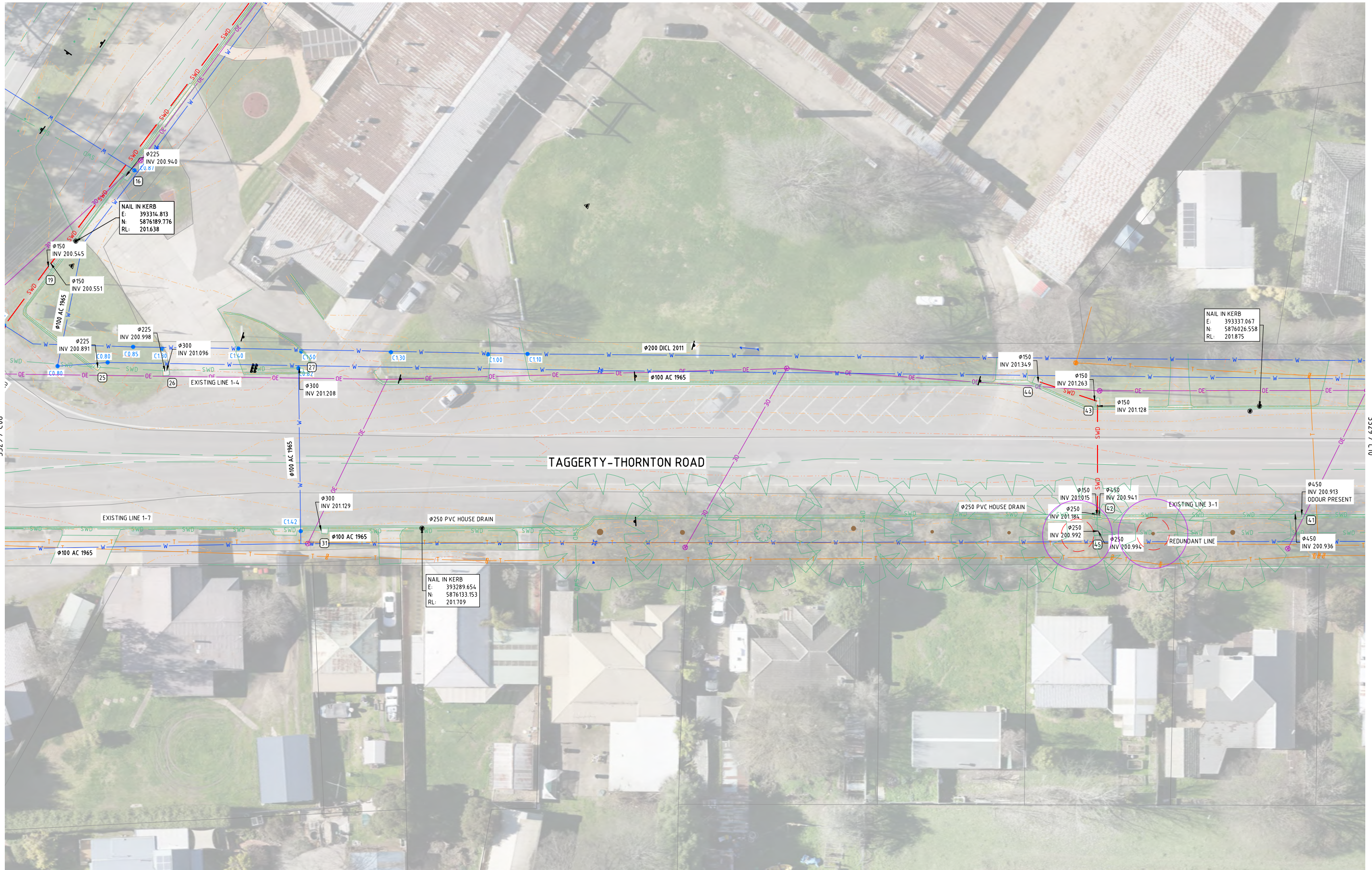


abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	EXISTING CONDITIONS (5 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Calc File:	3329 C01.DWG	Size:	A1
Scale:	SCALE AS SHOWN		
Drawing No:	3329 / C08	Sheet:	8 of 57
Issue:			F

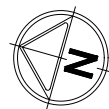
1/10/2021 12:45:05 PM 3329 C01.DWG



ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

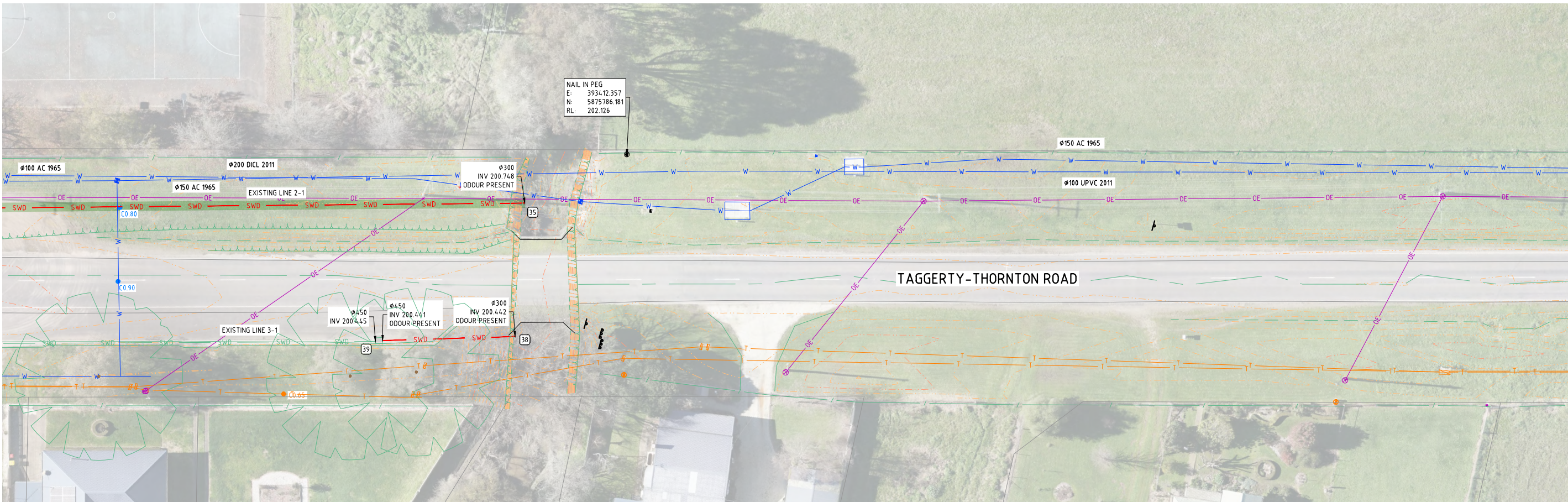
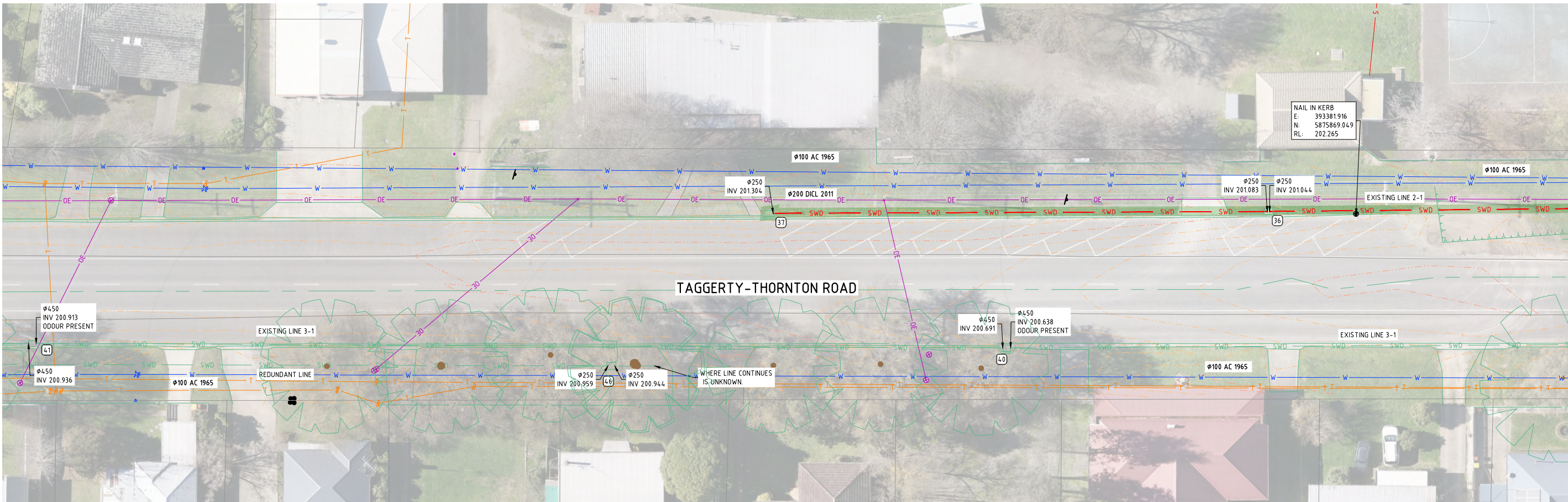
Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	EXISTING CONDITIONS (6 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Calc File:	3329 C01DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C09	Sheet:	9 of 57
Issue:	-	File:	F

SEE CONTINUATION
3329 / C09

SEE CONTINUATION
3329 / THIS SHEET

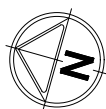
SEE CONTINUATION
3329 / THIS SHEET



ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL	Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT	Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL	Cad File:	3329 C01DWG	Scale:	SCALE AS SHOWN
Property:	-	Drawing No:	3329 / C10	Sheet:	10 of 57
Title:	EXISTING CONDITIONS (7 OF 11)	Issue:	-	Size:	A1

SEE CONTINUATION
3329 / C06

SEE CONTINUATION
3329 / C12



ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER

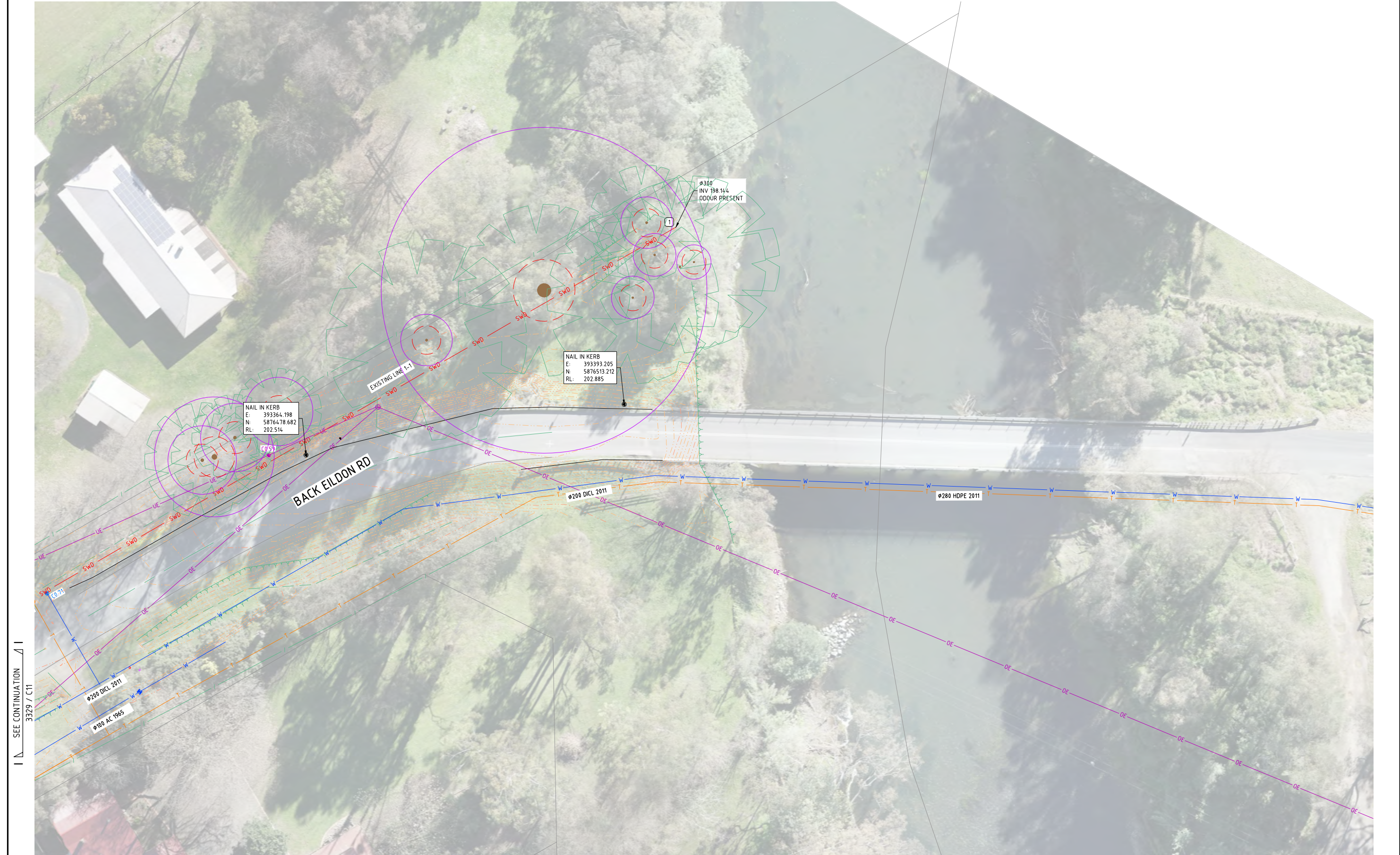


abr: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	EXISTING CONDITIONS (8 OF 11)

Surveyed:	M.V & K.M	22/06/2020	Drawn:	S.GALEA	27/07/2020
Designed:	S.GALEA	27/07/2020	Approved:	N.Y-HUSABND	01/10/2021
Cal File:	3329 C01DWG		Scale:	SCALE AS SHOWN	
Drawing No:	3329 / C11		Sheet:	11 of 57	
Issue:					F

1/10/2021 1:25:18 PM 3329 C01DWG



SEE CONTINUATION
3329 / C11

ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

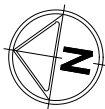
Client:	MURRINDINDI SHIRE COUNCIL	Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT	Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Location:	THORNTON TOWNSHIP	Scale:	SCALE AS SHOWN	Size:	A1
Property:	THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL	Drawing No:	3329 / C12	Sheet:	12 of 57
Title:	EXISTING CONDITIONS (9 OF 11)	Issue:	F		



ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	EXISTING CONDITIONS (10 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Calc File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C13	Sheet:	13 of 57
Issue:	-	Size:	A1

K SEE CONTINUATION / K
3329 / C06

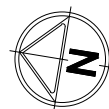
K SEE CONTINUATION / K
3329 / C05



ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED EZDESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER

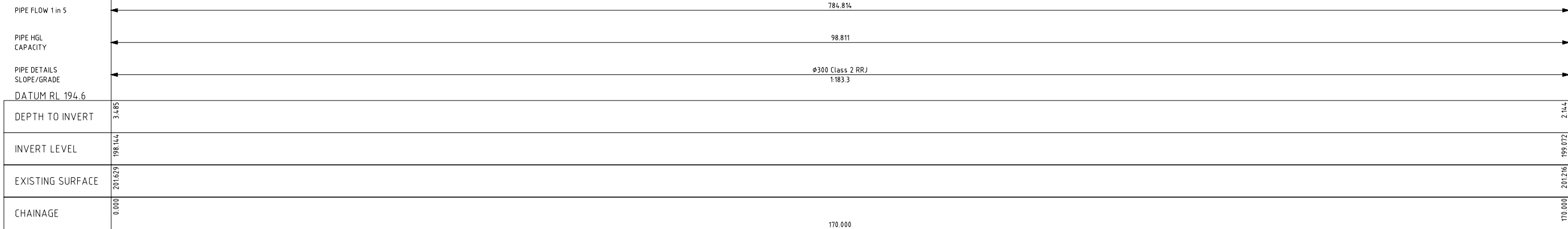


abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP
Property:	THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Title:	EXISTING CONDITIONS (11 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Calc File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C14	Sheet:	14 of 57
Issue:		Size:	A1

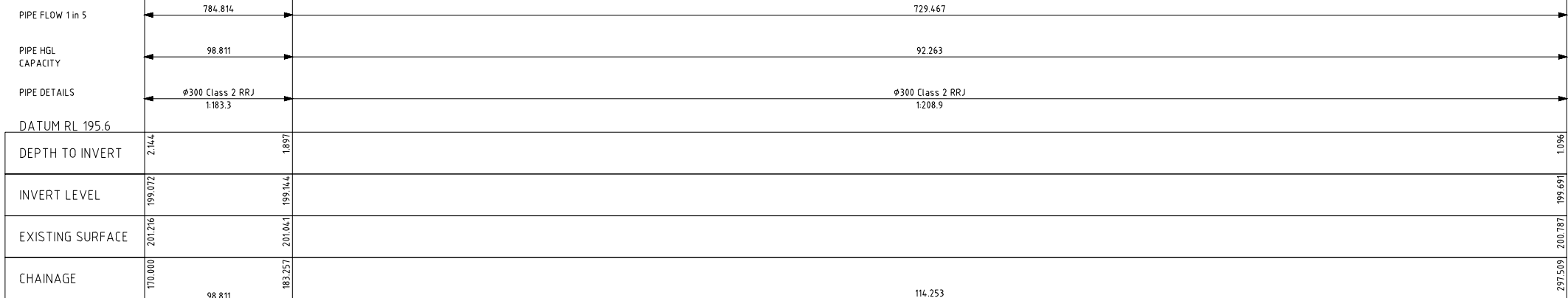
1



DRAINAGE LONGITUDINAL SECTION
(LINE 1-1)

2

4



DRAINAGE LONGITUDINAL SECTION
(LINE 1-1)

1/10/2021 17:28:41 PM 3329 C01.DWG

-	-	-
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED EZDESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

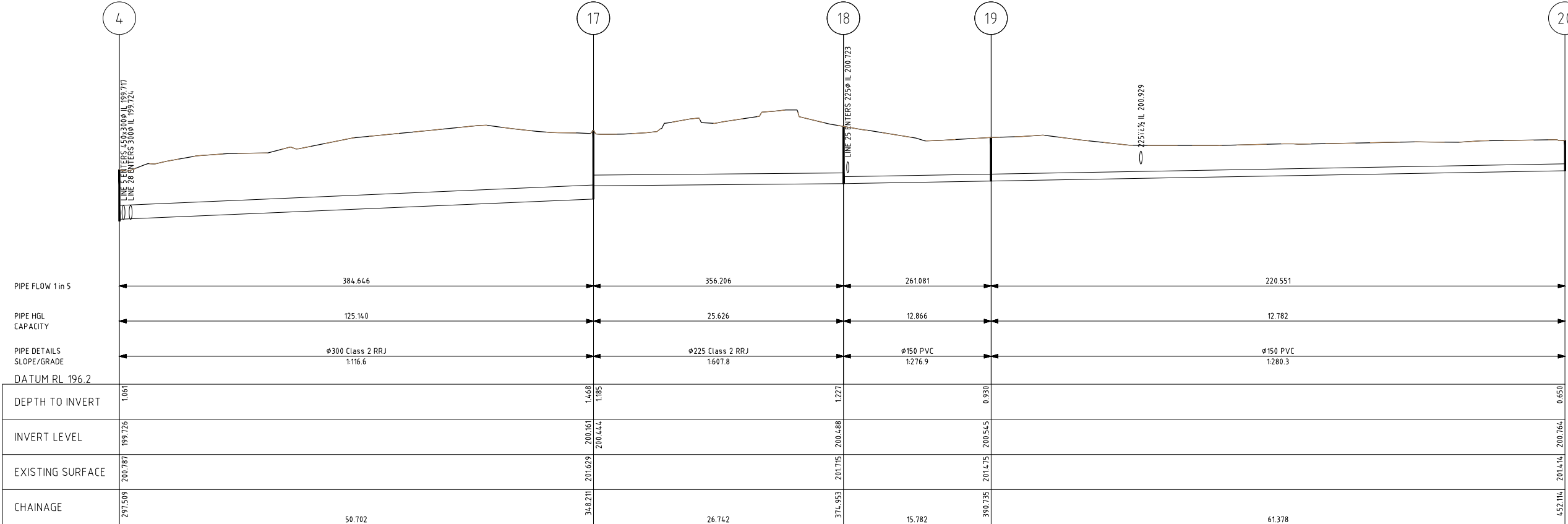
TENDER



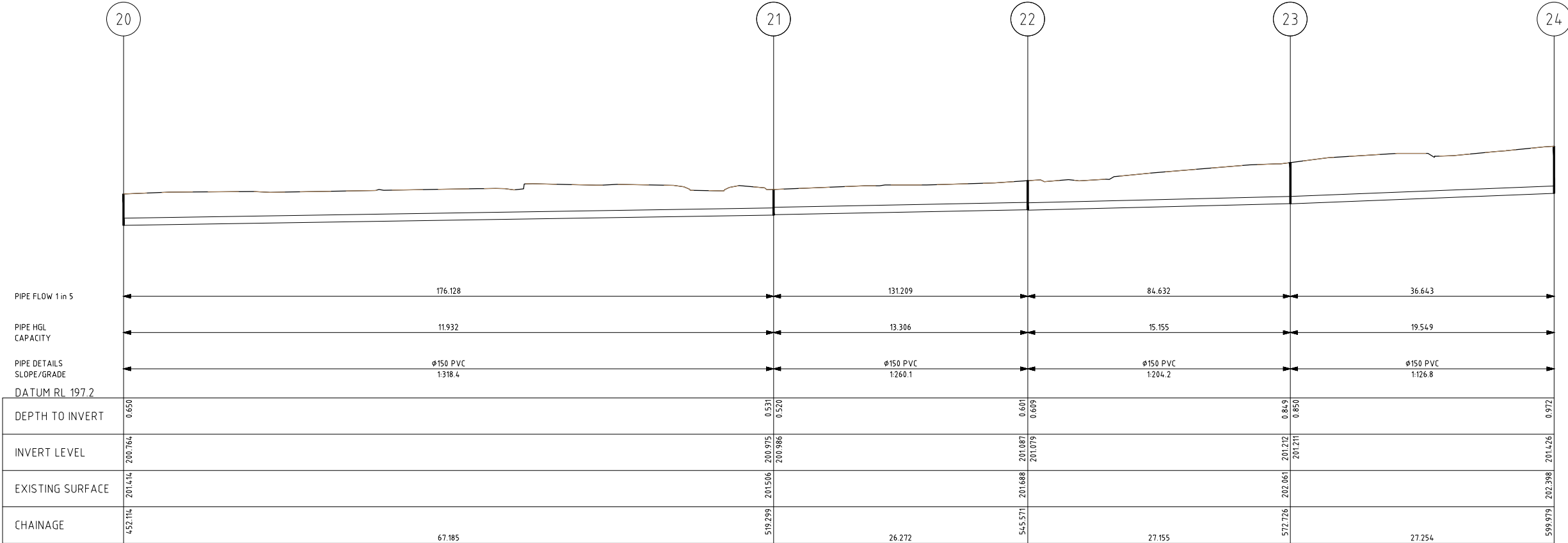
abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL	Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT	Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Location:	THORNTON TOWNSHIP	Cad File:	3329 C01.DWG	Size:	A1
Property:	THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL	Scale:	SCALE AS SHOWN		
Title:	EXISTING LONG SECTIONS (1 OF 9)	Drawing No:	3329 / C15	Shit:	15 of 57
				Issue:	F

1/10/2021 1:28:49 PM 3329 C01.DWG



DRAINAGE LONGITUDINAL SECTION
(LINE 1-1)



DRAINAGE LONGITUDINAL SECTION
(LINE 1-1)

ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

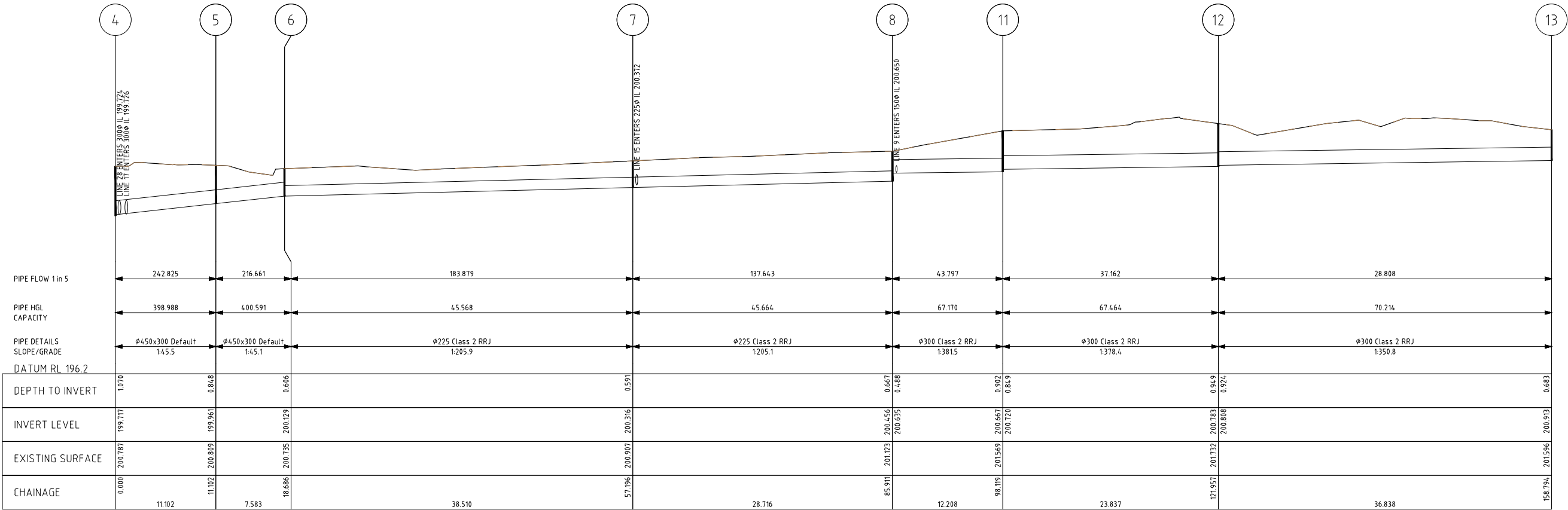
TENDER



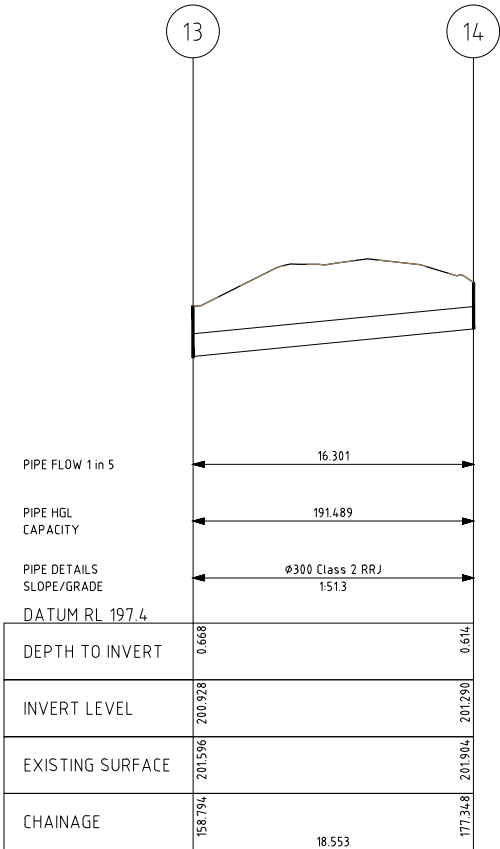
abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	EXISTING LONG SECTIONS (2 OF 9)

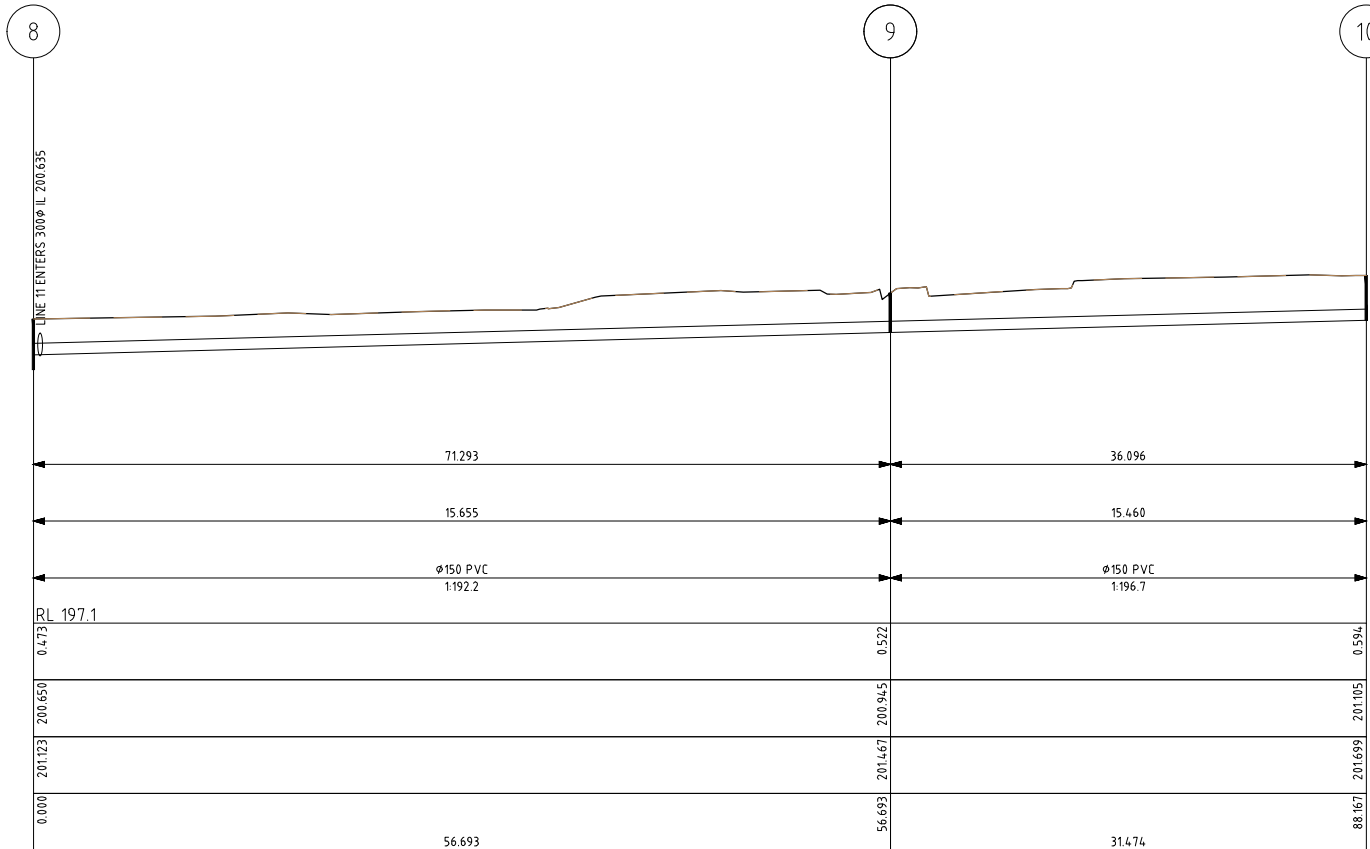
Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C16	Sheet:	16 of 57
Size:	A1	Issue:	F



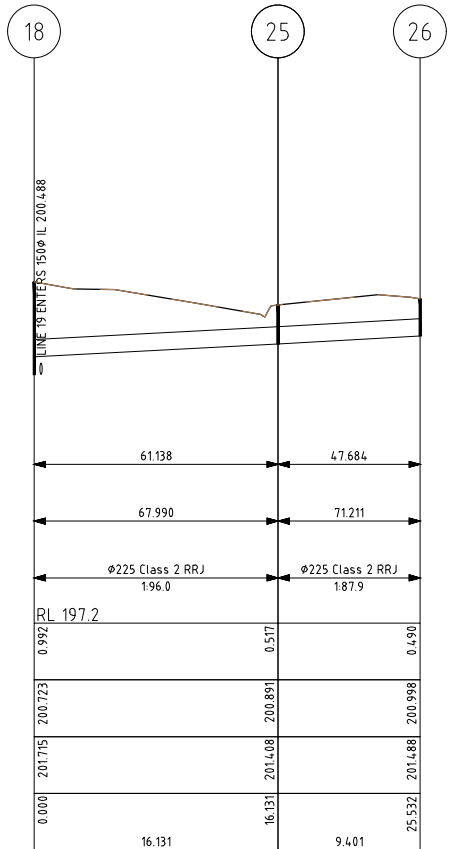
DRAINAGE LONGITUDINAL SECTION
(LINE 1-2)



DRAINAGE LONGITUDINAL SECTION
(LINE 1-2)



DRAINAGE LONGITUDINAL SECTION
(LINE 1-3)



DRAINAGE LONGITUDINAL SECTION
(LINE 1-4)

-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

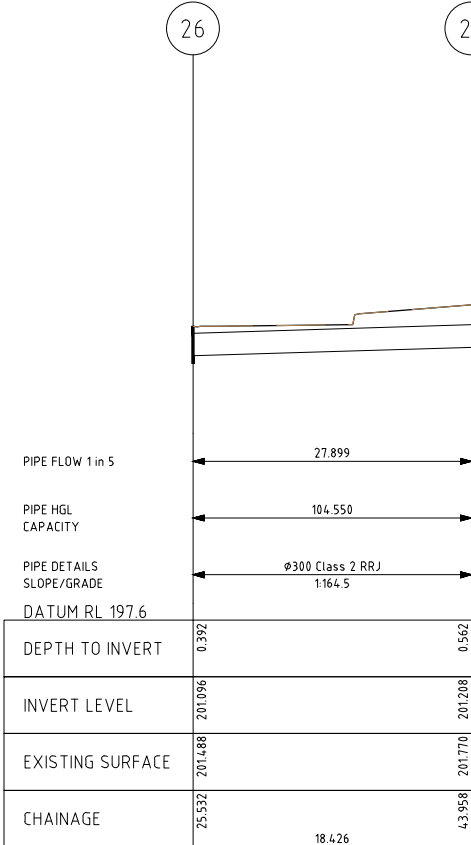
TENDER



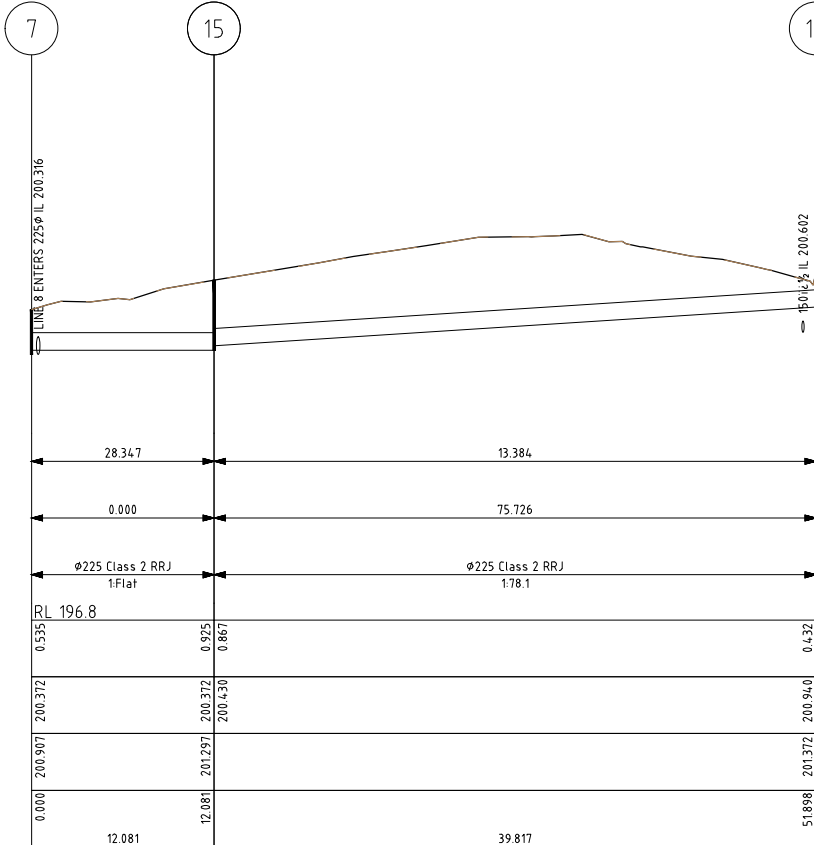
abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	EXISTING LONG SECTIONS (3 OF 9)

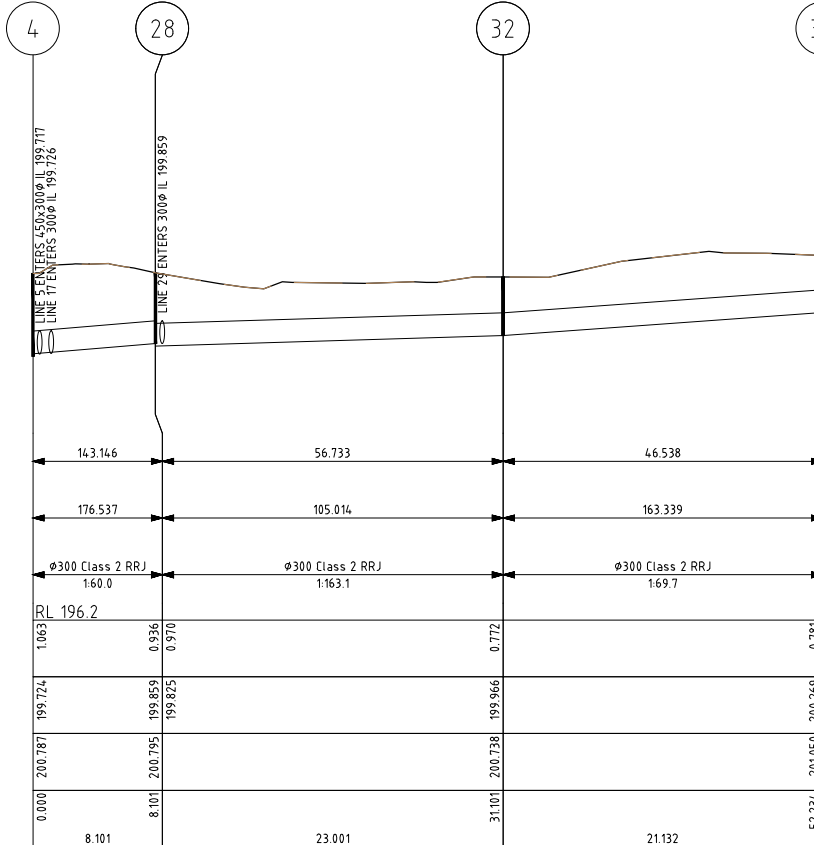
Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C17	Sheet:	17 of 57
Size:	A1	Issue:	F



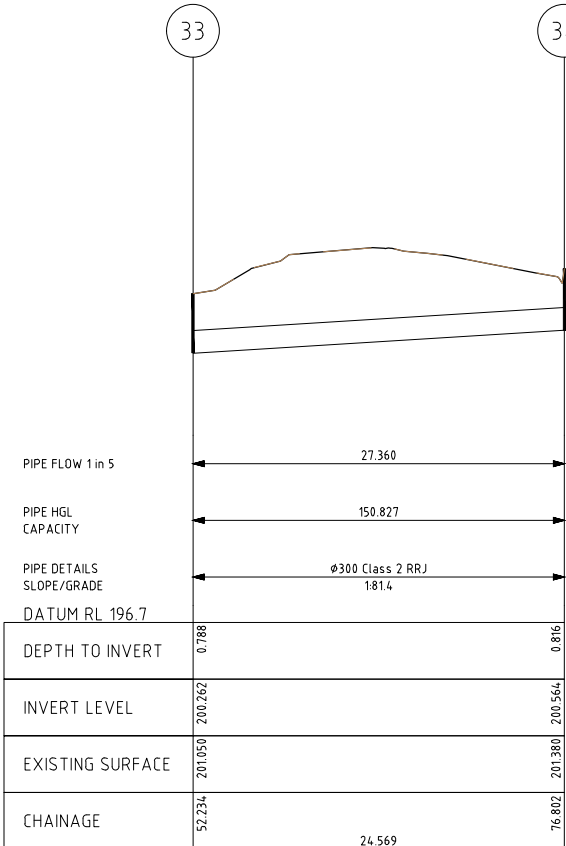
DRAINAGE LONGITUDINAL SECTION
(LINE 1-4)



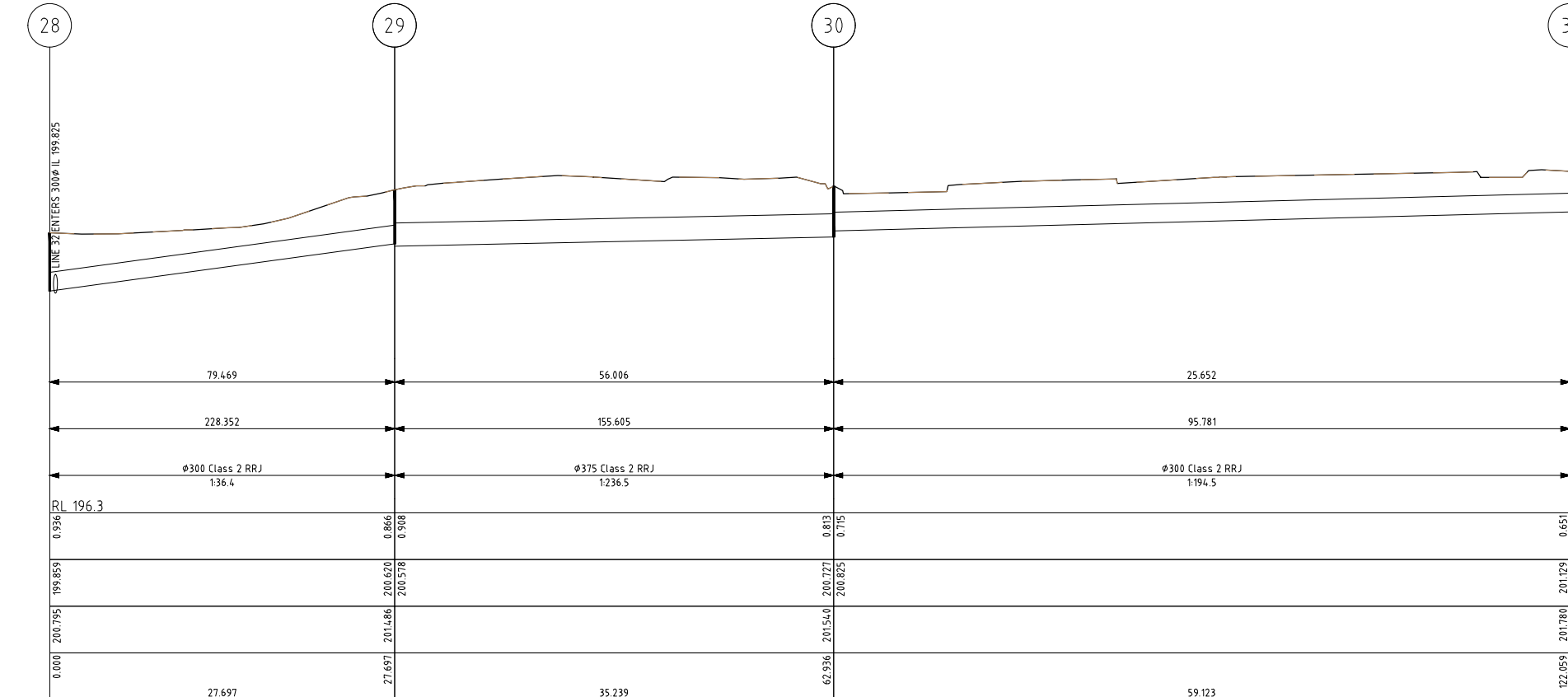
DRAINAGE LONGITUDINAL SECTION
(LINE 1-5)



DRAINAGE LONGITUDINAL SECTION
(LINE 1-6)



DRAINAGE LONGITUDINAL SECTION
(LINE 1-7)



DRAINAGE LONGITUDINAL SECTION
(LINE 1-8)

ISSUE	DESCRIPTION	DATE
A	EXISTING CONDITIONS	27/07/2020
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
C	DETAILED DRAINAGE DESIGN	02/02/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	EXISTING LONG SECTIONS (4 OF 9)

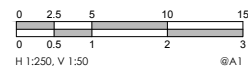
Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C18	Sheet:	18 of 57
Size:	A1	Issue:	F

1/10/2021 7:28:34 PM 3329 C01.DWG

-	-	-
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED EZDESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

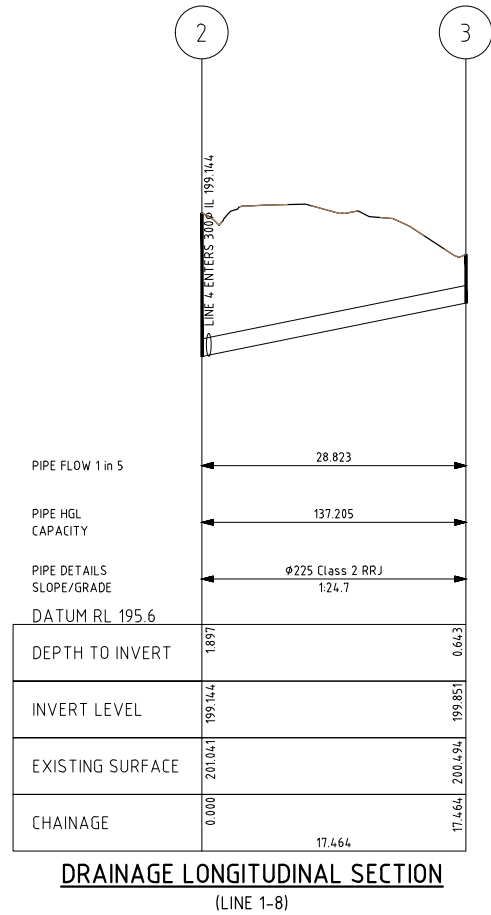
TENDER



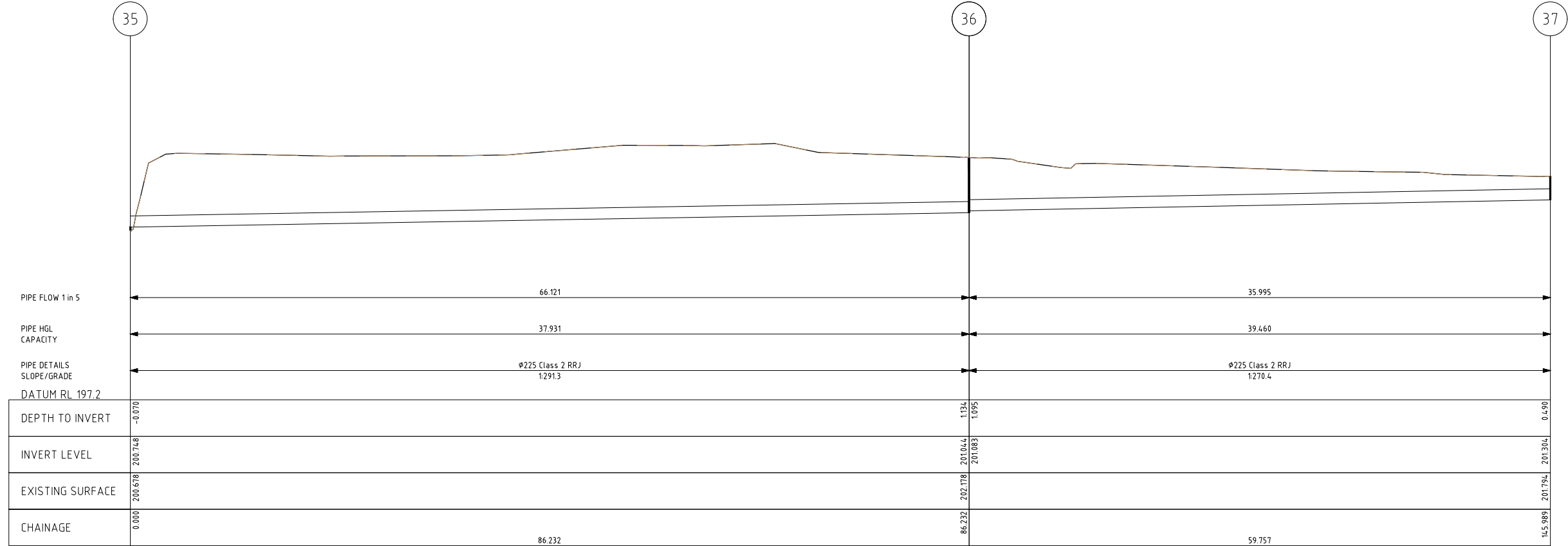
abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP
Property:	THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Title:	EXISTING LONG SECTIONS (5 OF 9)

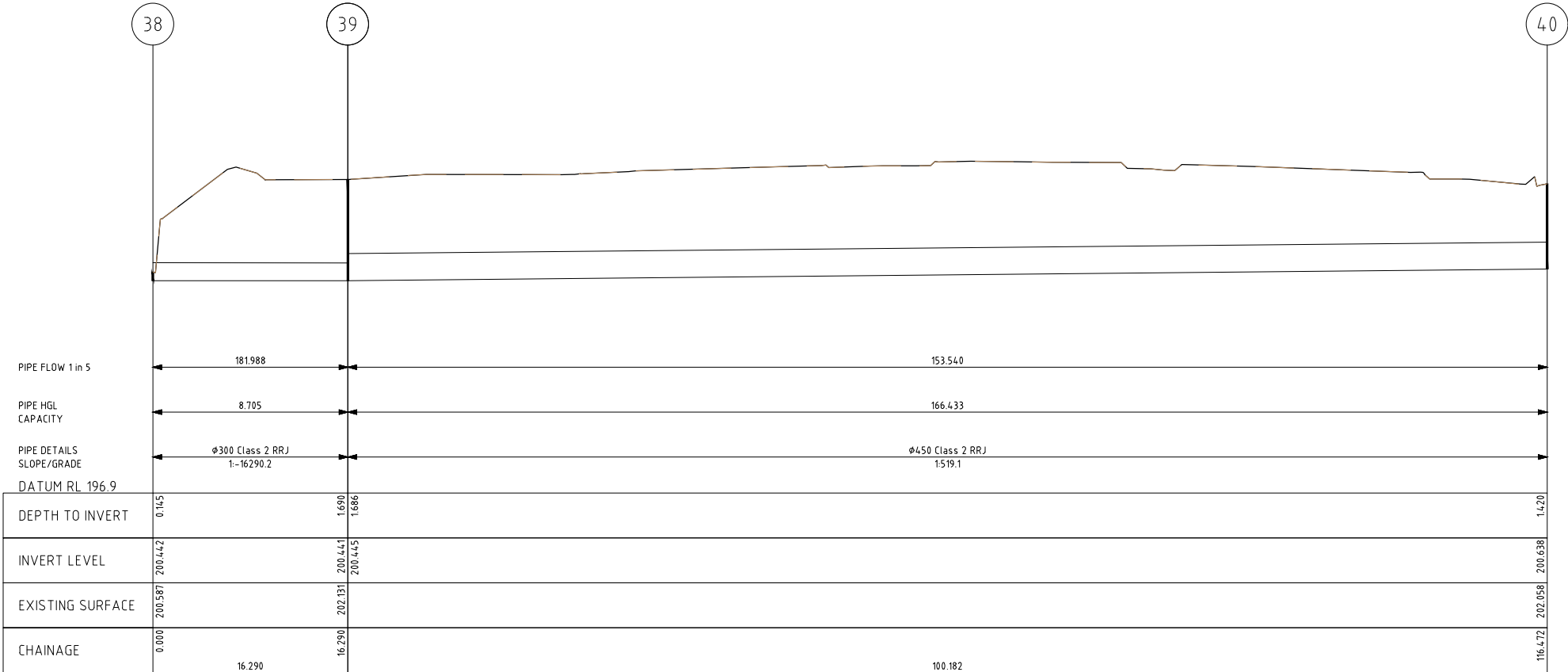
Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:		Sheet:	
Size:	A1	Issue:	
	3329 / C19	19 of 57	F



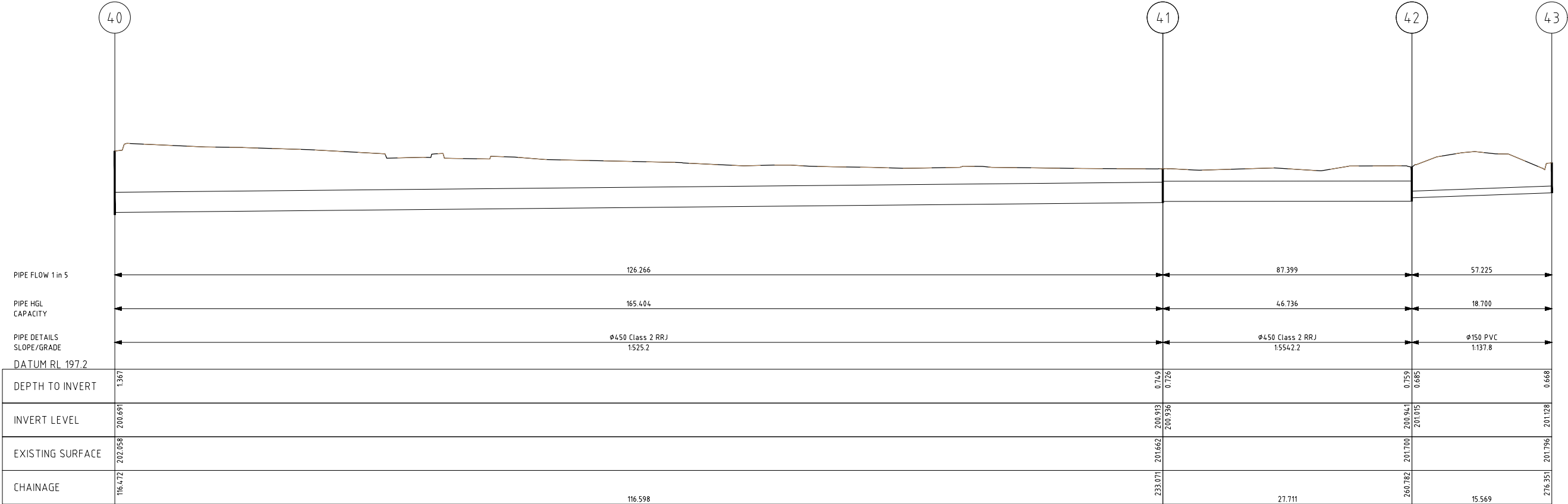
DRAINAGE LONGITUDINAL SECTION
(LINE 1-8)



DRAINAGE LONGITUDINAL SECTION
(LINE 2-1)



DRAINAGE LONGITUDINAL SECTION
(LINE 3-1)



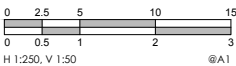
DRAINAGE LONGITUDINAL SECTION
(LINE 3-1)

1/10/2021 12:38:39 PM 3329 C01.DWG

-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED EZDESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

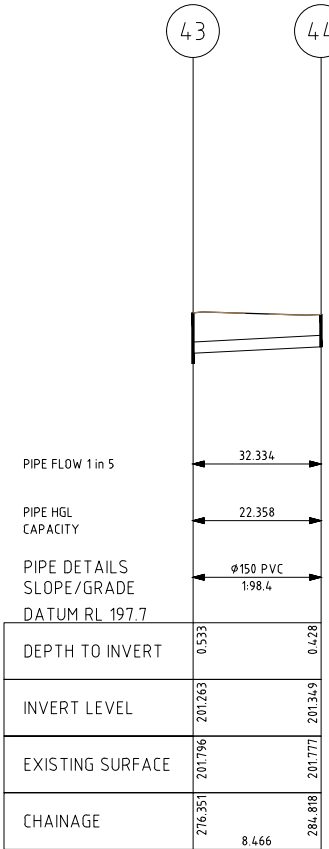
TENDER



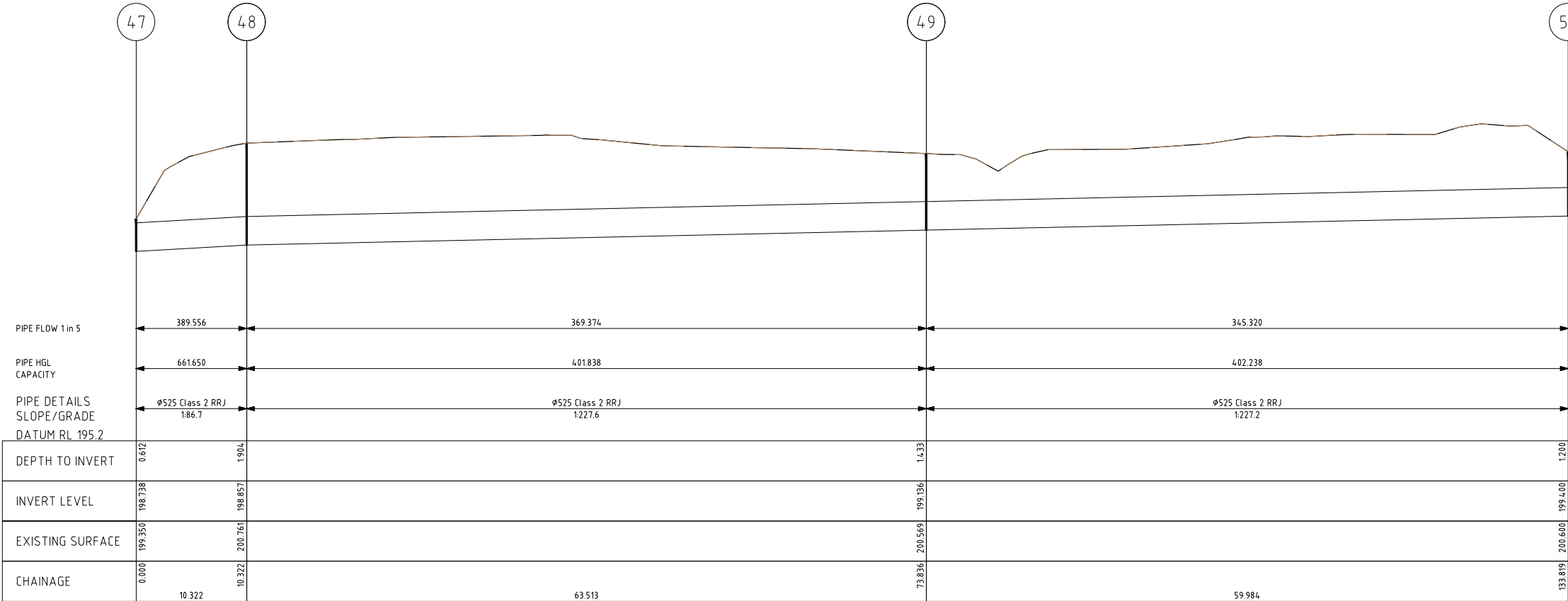
abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP
Property:	MURRINDINDI SHIRE COUNCIL
Title:	EXISTING LONG SECTIONS (6 OF 9)

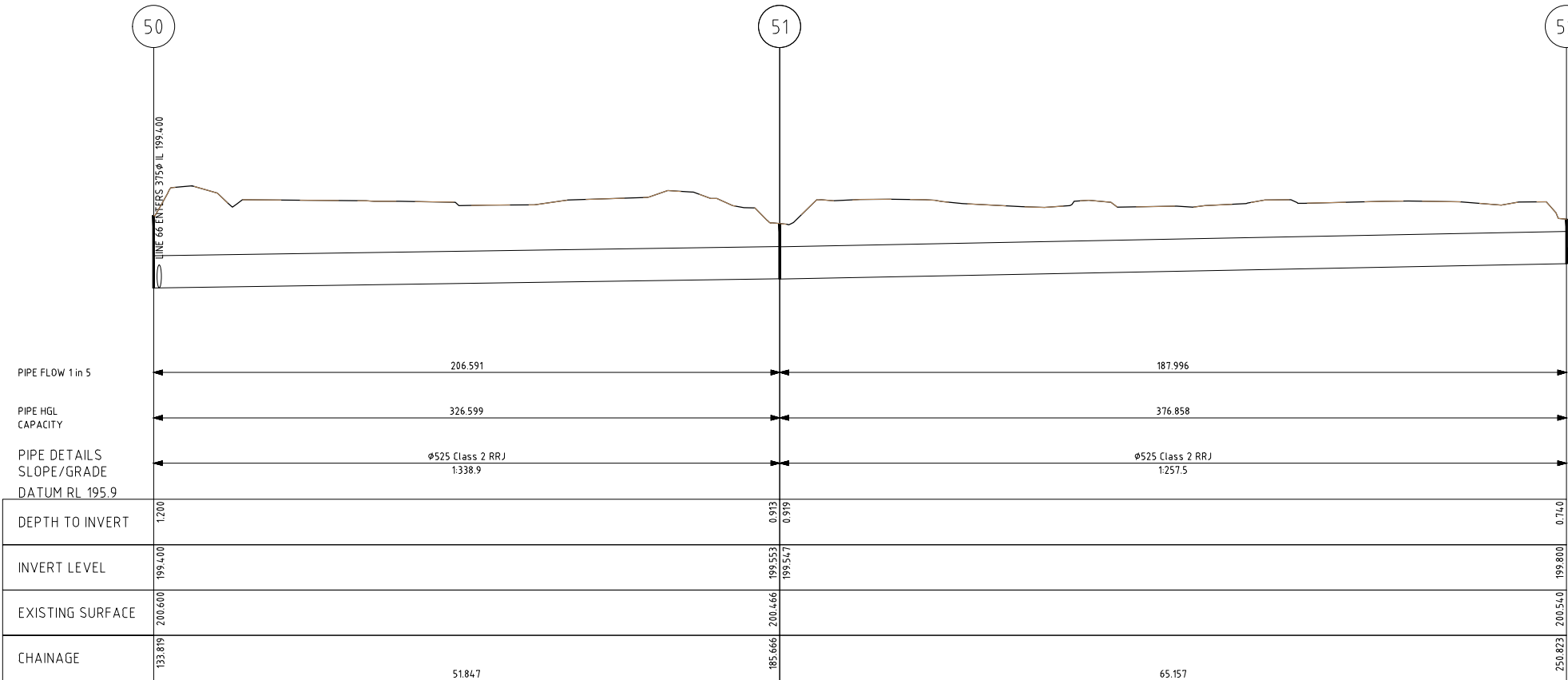
Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:		Sheet:	
Size:	A1	Issue:	
	3329 / C20	20 of 57	F



DRAINAGE LONGITUDINAL SECTION
(LINE 3-1)



DRAINAGE LONGITUDINAL SECTION
(LINE 4-1)



DRAINAGE LONGITUDINAL SECTION
(LINE 4-1)

ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED EZDESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

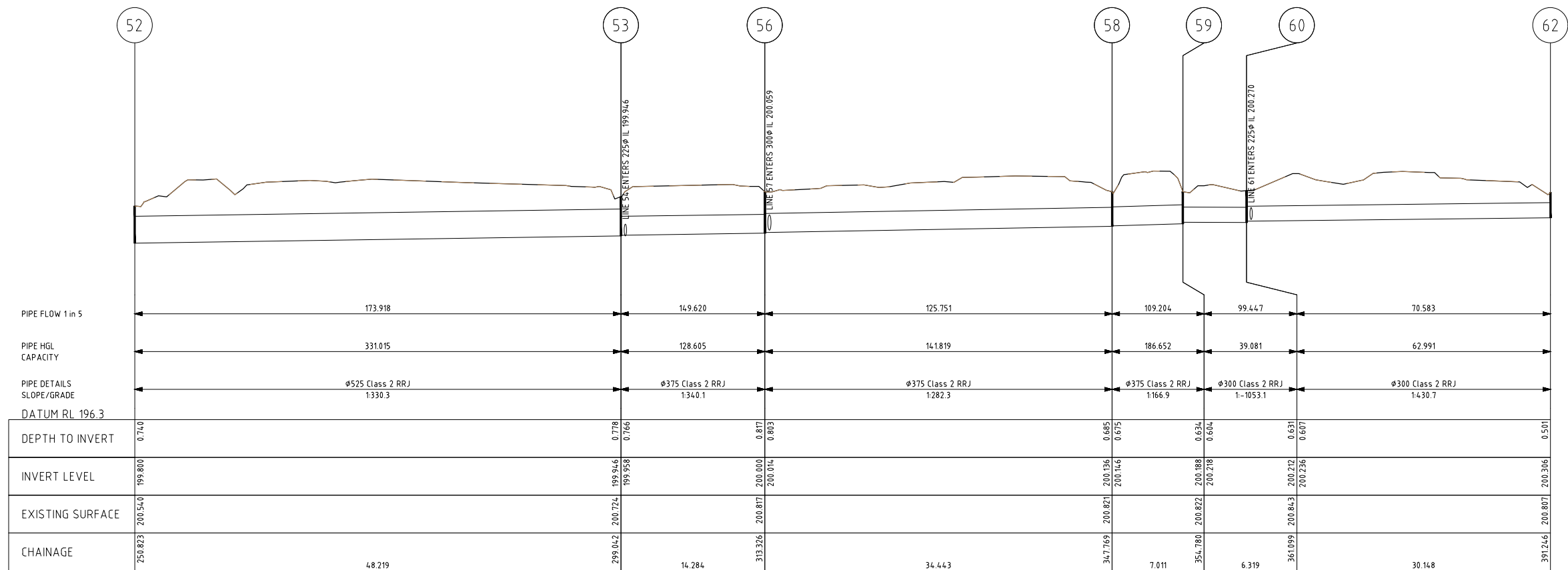
TENDER



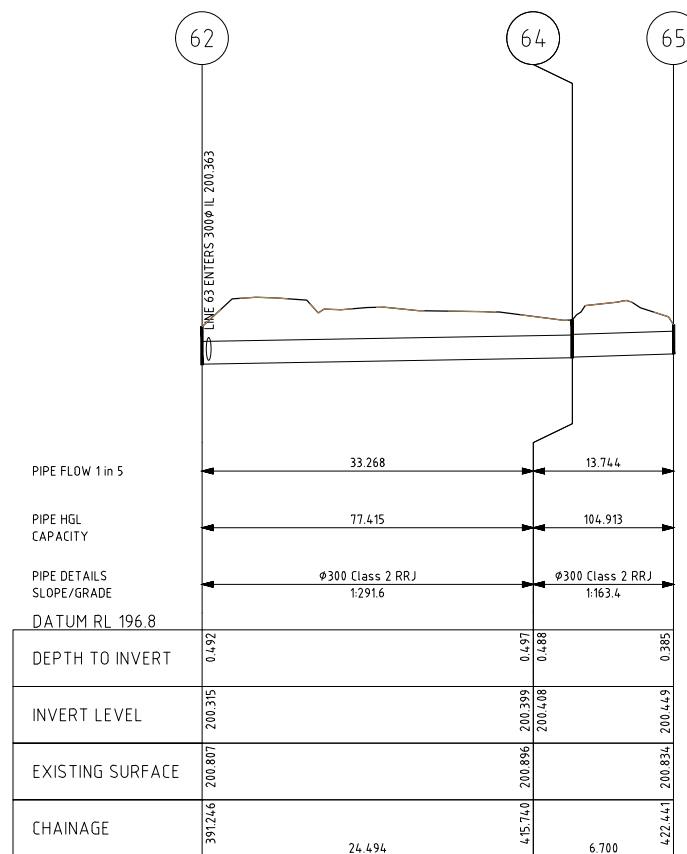
abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	EXISTING LONG SECTIONS (7 OF 9)

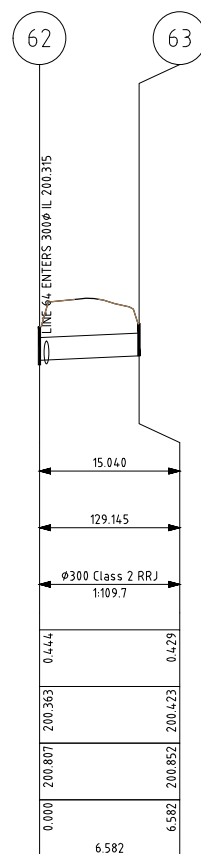
Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:		Sheet:	21 of 57
Size:	A1	Issue:	F



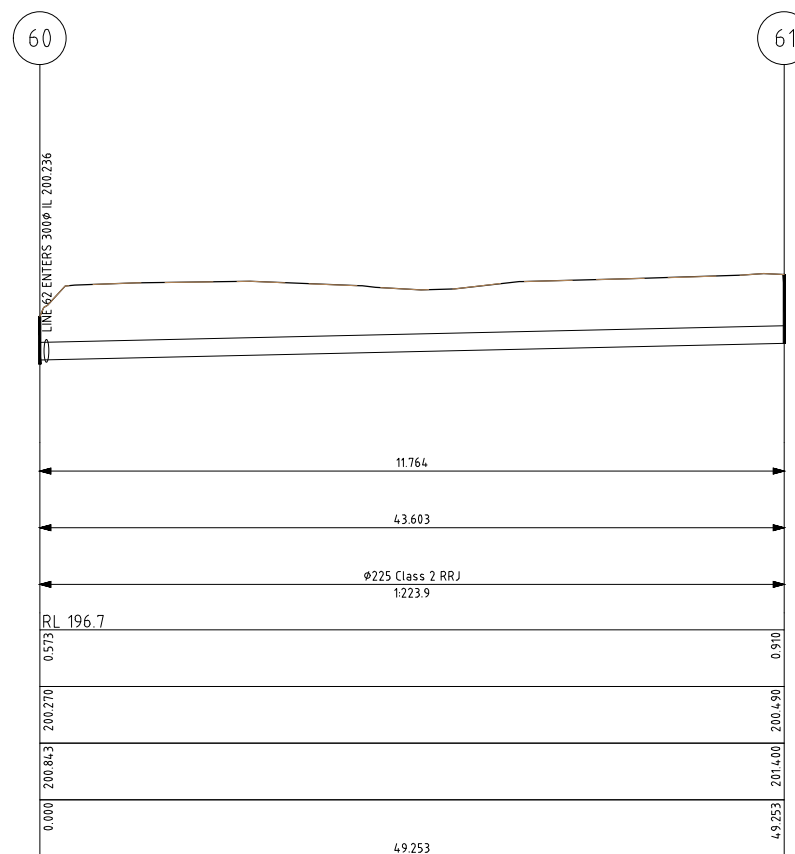
DRAINAGE LONGITUDINAL SECTION
(LINE 4-1)



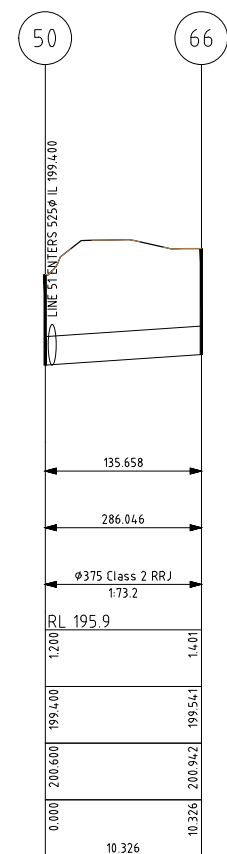
DRAINAGE LONGITUDINAL SECTION
(LINE 4-1)



DRAINAGE LONGITUDINAL SECTION
(LINE 4-2)



DRAINAGE LONGITUDINAL SECTION
(LINE 4-3)

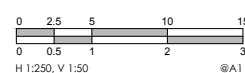


DRAINAGE LONGITUDINAL SECTION
(LINE 4-4)

-	-	-
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/01/2020
ISSUE	DESCRIPTION	DATE

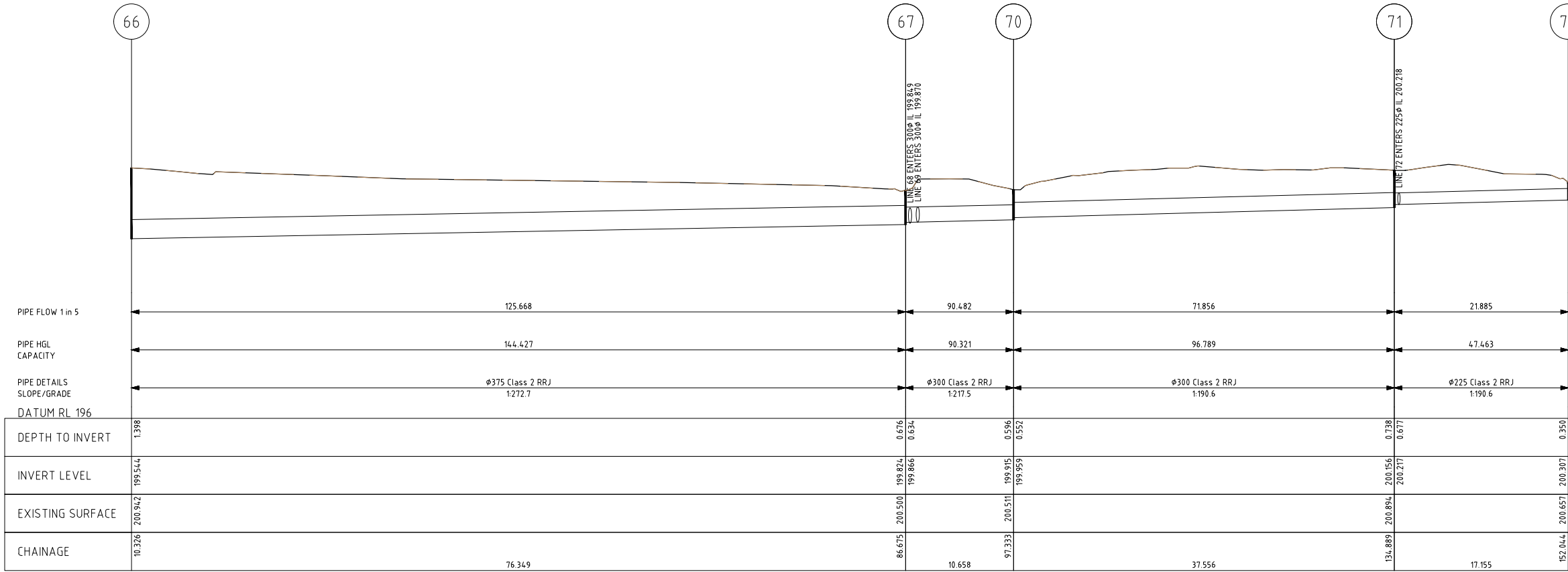
NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER

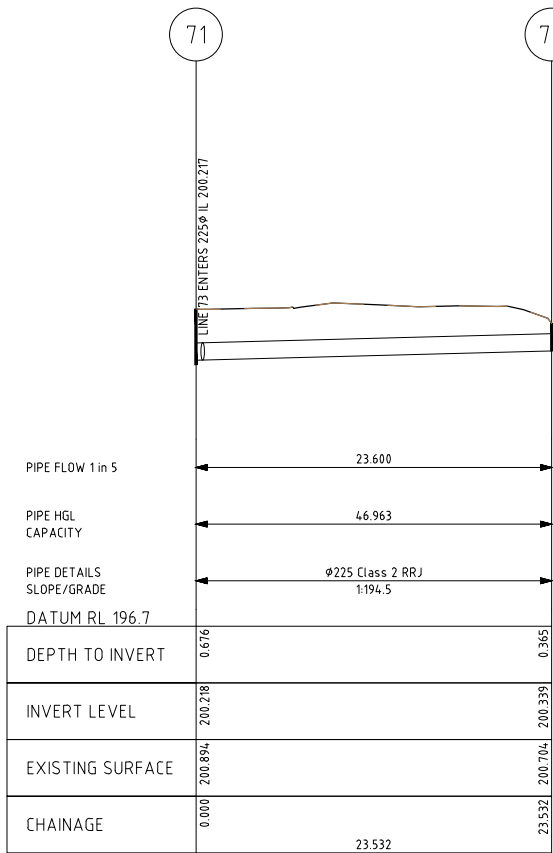


abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC
3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

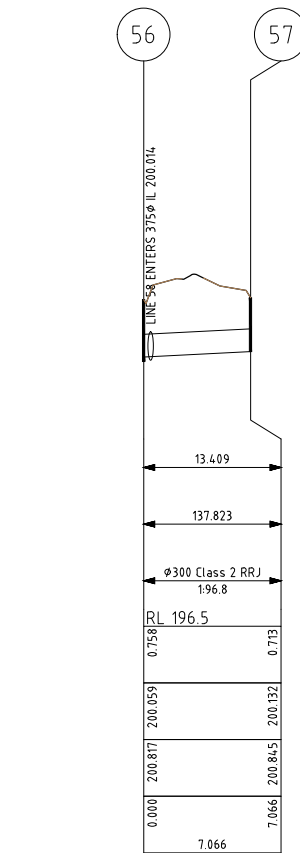
Client: MURRINDINDI SHIRE COUNCIL		Surveyed: M.V & K.M 22/06/2020	Drawn: S.GALEA 27/07/2020
Project Name: THORNTON STORMWATER DRAINAGE PROJECT	Location: THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL	Designed: S.GALEA 27/07/2020	Approved: N.Y-HUSABND 01/10/2021
Property: -		Cad File: 3329 C01DWG	Size: A1
		Scale: SCALE AS SHOWN	Issue: -
Title: EXISTING LONG SECTIONS (8 OF 9)		Drawing No: 3329 / C22	Shf: 22 of 57 F



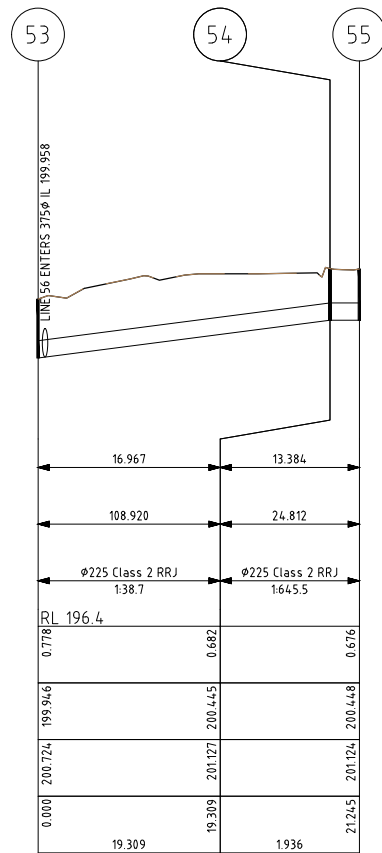
DRAINAGE LONGITUDINAL SECTION
(LINE 4-4)



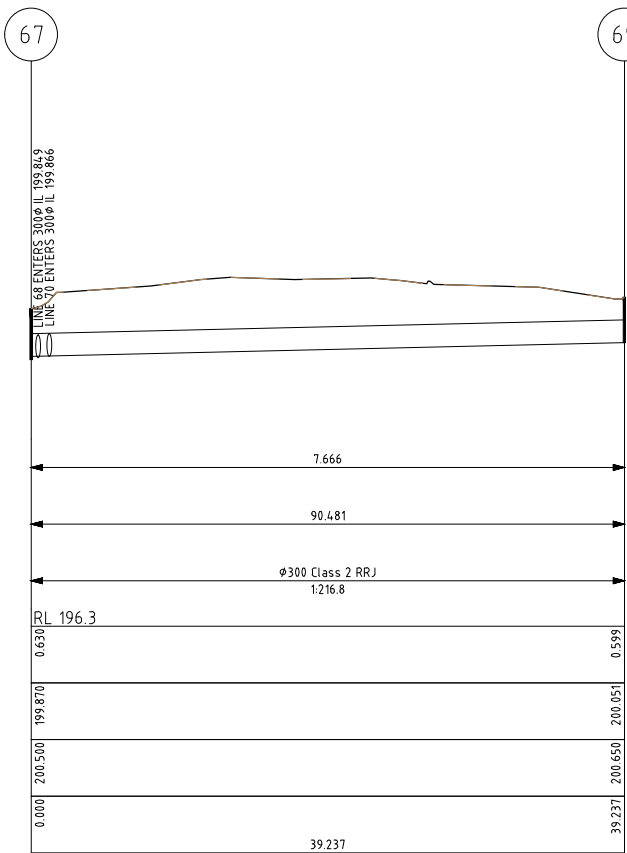
DRAINAGE LONGITUDINAL SECTION
(LINE 4-5)



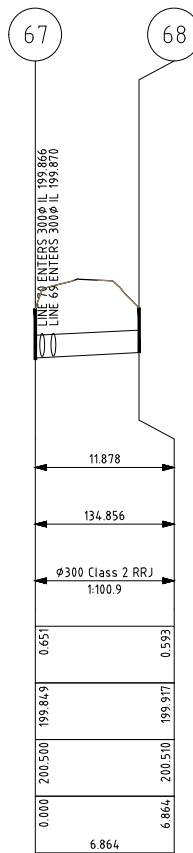
DRAINAGE LONGITUDINAL SECTION
(LINE 4-6)



DRAINAGE LONGITUDINAL SECTION
(LINE 4-7)



DRAINAGE LONGITUDINAL SECTION
(LINE 4-8)

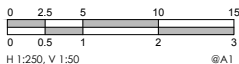


DRAINAGE LONGITUDINAL SECTION
(LINE 4-9)

ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	EXISTING LONG SECTIONS (9 OF 9)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Cad File:	3329 C01DWG	Scale:	SCALE AS SHOWN
Drawing No:		Sheet:	
Size:	A1	Issue:	
3329 / C23	23 of 57	F	

EXISTING STORMWATER NETWORK

PIT SCHEDULE															
LINE NO.	SPUR	PIT TYPE	PIT TYPE	DN (mm)	IL (mAHD)	DN (mm)	IL (mAHD)	FROM PIT	LID LEVEL (mAHD)	PIT INV (mAHD)	PIT DEPTH (m)	EASTING (m)	NORTHING (m)	PIT HAS AN ODOUR	COMMENT
1	1	1	OUTFALL	300	198.144							393382.435	5876536.723	YES	OUTFALL TO GOULBURN RIVER
1	1	2	SEP	300	199.480	225	199.480	3	201.039	199.480	1.559	393322.562	5876363.523	NO	
						225	199.481	4							
1	8	3	SEP	225	199.851	–	–	–	200.750	199.851	0.899	393339.019	5876357.677	NO	END LINE, TAKES WATER FROM TD, BACK-EILDON RD
1	1	4	SEP	300	199.691	450x300	199.717	5	200.836	199.691	1.145	393285.596	5876255.383	NO	
						300	199.726	28							NEED TO CONFIRM PIPE SIZE
						225	199.724	17							
1	2	5	JP	450x300?	199.961	450x300?	199.961	6				393295.578	5876252.253		UNABLE TO OPEN PIT - ASSUMED INVERT LEVEL
1	2	6	SEP	450x300?	200.129	225	200.129	7	200.750	200.129	0.621	393303.650	5876250.770	YES	NEED TO CONFIRM PIPE SIZE
1	2	7	JP	225?	200.316	225?	200.316	8							POSSIBLE PIT
						225	?	15							
1	2	8	JP	225?	200.456	150?	200.650	9	201.130	?	?	393365.178	5876223.844		UNABLE TO OPEN PIT - ASSUMED INVERT LEVEL
						300?	200.635	11							ASSUMED INVERT LEVEL
1	3	9	SEP	150	200.945	150	200.945	10	201.570	200.945	0.625	393418.908	5876205.519	NO	
1	3	10	SEP	150	201.105	–	–	–	201.720	201.105	0.615	393448.218	5876194.051	NO	END OF LINE
1	2	11	JP	300	200.667	300	200.720	12	201.386	200.720	0.666	393361.151	5876212.479	NO	
1	2	12	JP	300	200.783	300	200.808	13	201.470	200.783	0.687	393383.452	5876203.697	NO	
1	2	13	JP	300	200.913	300	200.928	14	201.480	200.913	0.567	393417.798	5876190.393	NO	
1	2	14	Pipe	300	201.290	–	–	–	201.290	?	?	393413.885	5876172.257	NO	END OF LINE, PIPE ONLY
1	5	15	JP	225	200.372	225	200.430	16	201.440	200.372	1.068	393334.173	5876224.350	NO	
1	5	16	SEP	225	200.940	–	–	–	201.430	200.940	0.490	393325.335	5876185.281	NO	END OF LINE
1	1	17	SEP	300	200.161	225	200.444	18	201.580	200.161	1.419	393270.673	5876206.992	YES	
1	1	18	JP	225	200.488	150?	200.488	19							UNABLE TO OPEN PIT - ASSUMED INVERT LEVEL
						225?	200.723	25							ASSUMED INVERT LEVEL
1	1	19	SEP	150	200.545	150	200.551	20	201.520	200.545	0.975	393310.621	5876192.165	NO	
1	1	20	JP	150	200.764	150	200.764	21	201.410	200.764	0.646	393367.859	5876170.003	NO	
1	1	21	SEP	150	200.975	150	200.986	22	201.510	200.975	0.535	393430.325	5876145.276	NO	
1	1	22	JP	150	201.087	150	201.079	23	201.630	201.087	0.543	393454.671	5876135.393	NO	
1	1	23	SEP	150	201.212	150	201.211	24	202.080	201.212	0.868	393480.050	5876125.658	NO	
1	1	24	SEP	150	201.426	–	–	–	202.420	201.426	0.994	393505.528	5876116.057	NO	END OF LINE
1	4	25	SEP	150	200.891	225	208.891	26	201.400	200.891	0.509	393298.922	5876182.174	NO	
1	4	26	JP	225	200.998	300	201.096	27	201.520	200.998	0.522	393300.950	5876173.155	NO	
1	4	27	JP	300	201.208	–	–	–	201.740	201.208	0.532	393306.108	5876155.043	NO	END OF LINE
1	6	28	JP	300	199.859	300	199.825	29	200.827	199.859	0.968	393278.002	5876258.069	YES	
						225	199.825	32							
1	7	29	JP	300	200.620	375	200.578	30	201.480	200.620	0.860	393260.375	5876236.677	YES	
1	7	30	SEP	375	200.727	300	200.825	31	201.640	200.727	0.913	393270.095	5876202.939	YES	
1	7	31	SEP	300	201.129	–	–	–	201.720	201.129	0.591	393285.662	5876145.967	NO	END OF LINE
1	6	32	JP	300	199.966	300	199.971	33	200.710	199.966	0.744	393255.710	5876252.920	YES	
1	6	33	JP	300	200.269	300	200.262	34	201.025	200.269	0.756	393235.132	5876247.977	YES	
1	6	34	SEP	300	200.564	–	–	–	201.397	200.564	0.833	393223.163	5876225.897	NO	END OF LINE
2	1	35	OUTFALL	300	200.748			36				393403.453	5875796.348	YES	OUTFALL TO CREEK
2	1	36	SEP	250	201.044	250	201.083	37	202.140	201.044	1.096	393379.407	5875879.087	NO	NEED TO CONFIRM OUTLET PIE SIZE
2	1	37	SEP	250	201.304	–	–	–	201.780	201.304	0.476	393362.973	5875936.612	NO	END OF LINE

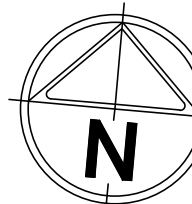
PIT SCHEDULE															
LINE NO.	SPUR	PIT		OUTLET		INLET		FROM PIT	LID LEVEL (mAHD)	PIT INV (mAHD)	PIT DEPTH (m)	EASTING (m)	NORTHING (m)	PIT HAS AN ODOUR	COMMENT
		PIT TYPE	PIT TYPE	DN (mm)	IL (mAHD)	DN (mm)	IL (mAHD)								
3	1	38	OUTFALL	300	200.442			39						YES	OUTFALL TO CREEK
3	1	39	GSEP	450	200.441	450	200.441	40	202.140	200.441	1.699	393382.928	5875808.720	YES	NEED TO CONFIRM OUTLET PIE SIZE
3	1	40	GSEP	450	200.638	450	200.691	41	202.040	200.638	1.402	393355.136	5875904.959	YES	
3	1	41	GSEP	450	200.913	450	200.936	42	201.650	200.913	0.737	393324.169	5876017.354	YES	
3	1	42	GSEP	450	200.941	150	201.015	43	201.700	200.941	0.759	393316.598	5876044.094	NO	
						250	201.184	45							
3	1	43	SEP	150	201.128	150	201.263	44	201.740	201.323	0.417	393331.588	5876048.181	NO	
3	1	44	SEP	150	201.349	-	-	-	201.770	201.349	0.421	393332.067	5876056.846	NO	
3	-	45	JP	250	200.992	250	200.994	42	201.760	200.992	0.768	393314.433	5876043.263	NO	REDUNDANT LINE
3	-	46	JP	250	200.959	225	200.944	45	201.830	200.959	0.871	393340.319	5875949.893	NO	REDUNDANT LINE
4	1	47	OUTFALL	525	198.738			48				392853.339	5876213.116	NO	
4	1	48	JP	525	198.857	525	198.857	49	200.800	198.857	1.943	392860.994	5876206.191	YES	
4	1	49	JP	525	199.136	525	199.136	50	200.560	0.000	200.560	392924.286	5876211.482	?	UNABLE TO OPEN PIT, ASSUMED INVERT LEVEL
4	1	50	SEP	525	199.400	525	199.400	51	200.910	199.400	1.510	392984.134	5876216.795	YES	
						375		66							
4	1	51	JP	525	199.553	525	199.547	52	200.810	199.553	1.257	393035.541	5876221.288	YES	
4	1	52	SEP	525	199.800	525	199.800	53	200.800	199.800	1.000	393100.591	5876227.003	YES	
4	1	53	SEP	525	199.946	225		54	200.970	199.946	1.024	393148.536	5876231.241	YES	
						375	199.958	56							
4	7	54	SEP	225	200.445	225	200.441	55	201.100	200.445	0.655	393167.910	5876233.009	NO	
4	7	55	SEP	225	200.448	-	-	-	201.130	200.448	0.682	393169.981	5876233.166	NO	END OF LINE
4	1	56	SEP	375	200.000	300	200.059	57	200.980	200.000	0.980	393160.043	5876222.487	YES	
						375	200.014	58		0.000					
4	6	57	SEP	300	200.132	-	-	-	201.051	200.132	0.919	393167.043	5876222.867	NO	END OF LINE
4	1	58	SEP	375	200.136	375	200.146	59	201.040	200.136	0.904	393164.491	5876188.235	YES	
4	1	59	SEP	375	200.188	300	200.218	60	201.118	200.188	0.930	393171.370	5876189.340	NO	
4	1	60	SEP	300	200.212	250	200.270	61	201.096	200.212	0.884	393172.198	5876183.004	NO	
						300	200.236	62							
4	3	61	JP	250	200.490	-	-	-	201.442	200.490	0.952	393220.471	5876172.306	NO	END OF LINE
4	1	62	SEP	300	200.306	300	200.363	63	201.098	200.306	0.792	393176.047	5876152.949	YES	
						300	200.315	64							
4	2	63	SEP	300	200.423	-	-	-	200.943	200.423	0.520	393169.204	5876152.570	NO	END OF LINE
4	4	64	SEP	300	200.399	300	200.408	65	201.153	200.399	0.754	393176.874	5876128.619	YES	
4	4	65	SEP	300	200.449	-	-	-	201.064	200.449	0.615	393170.105	5876127.544	NO	END OF LINE
4	4	66	JP	375	199.541	375	199.554	67	200.905	199.541	1.364	392991.178	5876209.519	NO	
4	4	67	SEP	375	199.824	300	199.849	68	200.743	199.824	0.919	393032.053	5876144.917	YES	
						300	199.870	69							
						300	199.866	70							
4	9	68	SEP	300	199.917	-	-	-	200.760	199.917	0.843	393026.210	5876140.923	NO	END OF LINE
4	8	69	SEP	300	200.051	-	-	-	200.980	200.051	0.929	393053.285	5876111.712	NO	END OF LINE
4	4	70	SEP	300	199.915	300	199.959	71	200.783	199.915	0.868	393041.555	5876140.046	NO	
4	4	71	SEP	300	200.156	225	200.218	72	200.946	200.156	0.790	393079.031	5876143.281	YES	
						225	200.217	73							
4	5	72	SEP	225	200.339	-	-	-	200.874	200.339	0.535	393102.428	5876145.066	NO	END OF LINE
4	4	73	SEP	225	200.307	-	-	-	200.864	200.307	0.557	393093.066	5876133.117	NO	END OF LINE

1/10/2021 7:29:05 PM 3329 C01.DWG

-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER

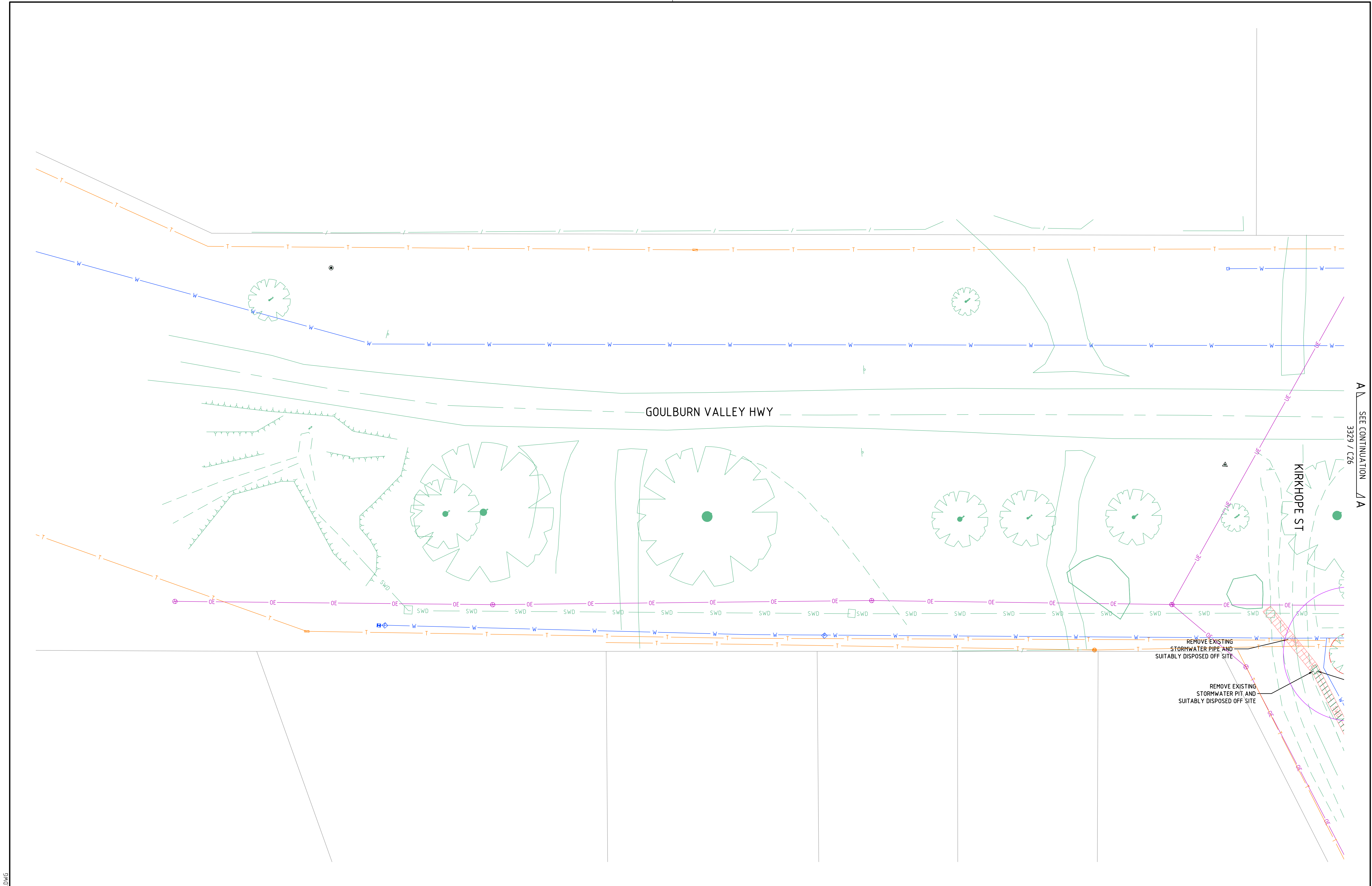




abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	DEMOLITION PLAN (SHEET 1 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Size:	A1
Scale:	SCALE AS SHOWN		
Drawing No:	3329 / C25	Shr:	25 of 57
Issue:			F



A \ SEE CONTINUATION / A
3329 / C26



ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

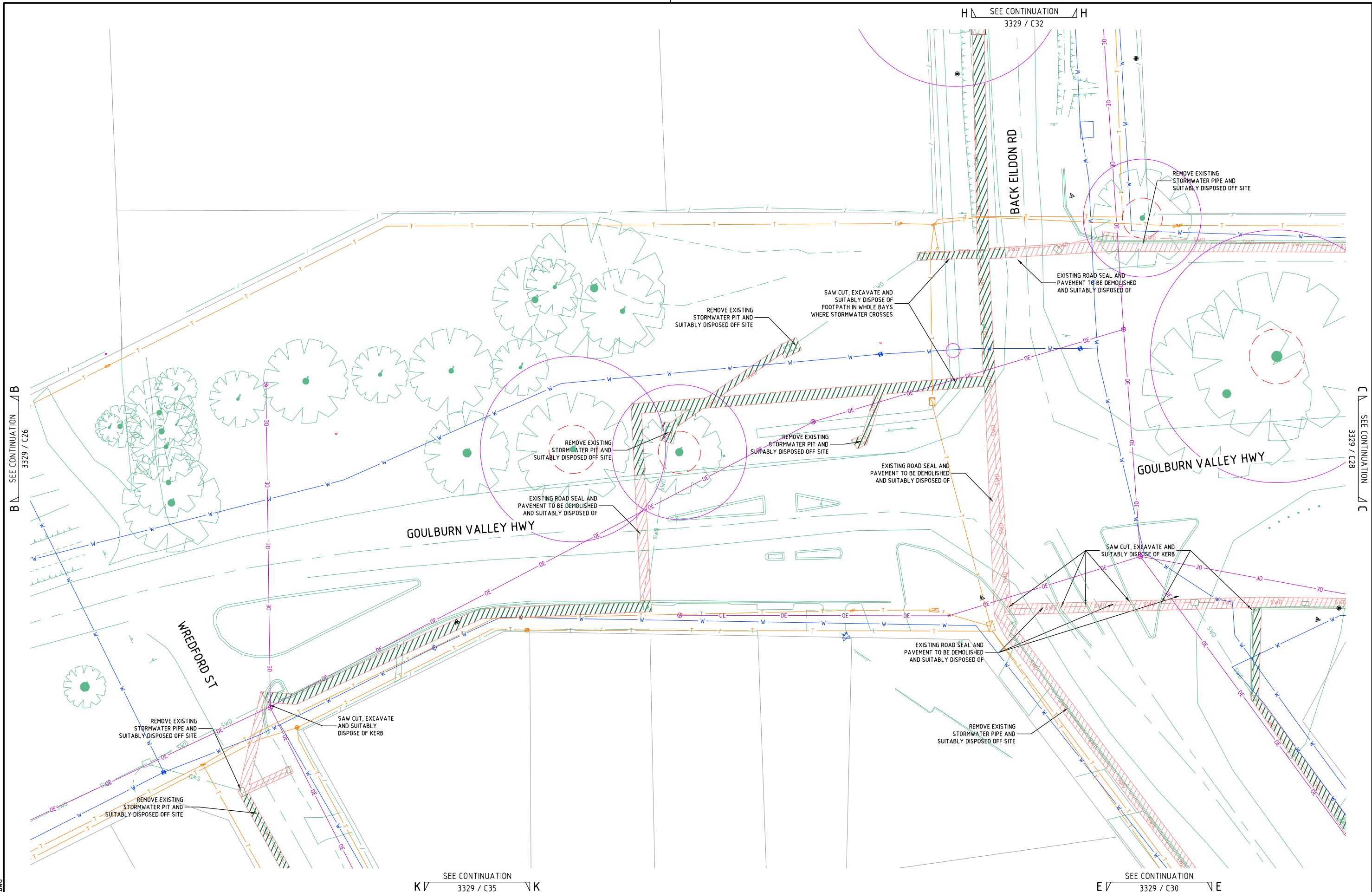
TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP
Property:	THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Title:	DEMOLITION PLAN (SHEET 2 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C26	Sheet:	26 of 57
Issue:	F	Size:	A1



ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER

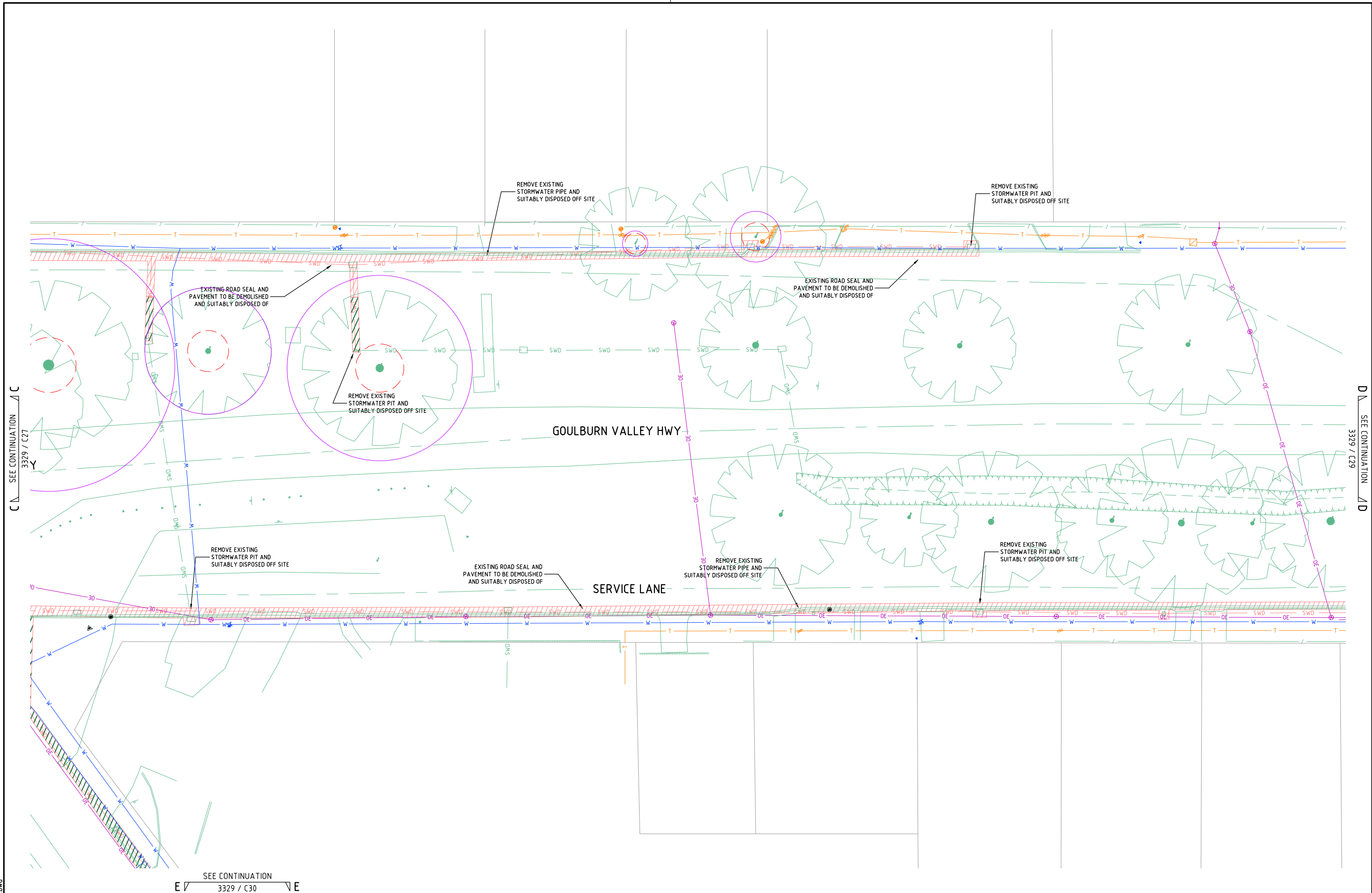


abr: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	DEMOLITION PLAN (SHEET 3 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Calc File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C27	Shit:	27 of 57
Issue:	-	Size:	A1

1/10/2021 12:28:45 PM 3329 C01.DWG



ISSUE	DESCRIPTION	DATE
A	EXISTING CONDITIONS	27/07/2020
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
C	DETAILED DRAINAGE DESIGN	02/02/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	DEMOLITION PLAN (SHEET 4 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C28	Shr:	28 of 57
Issue:	-	Size:	A1

1/10/2021 1:28:25 PM 3329 C01.DWG

ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

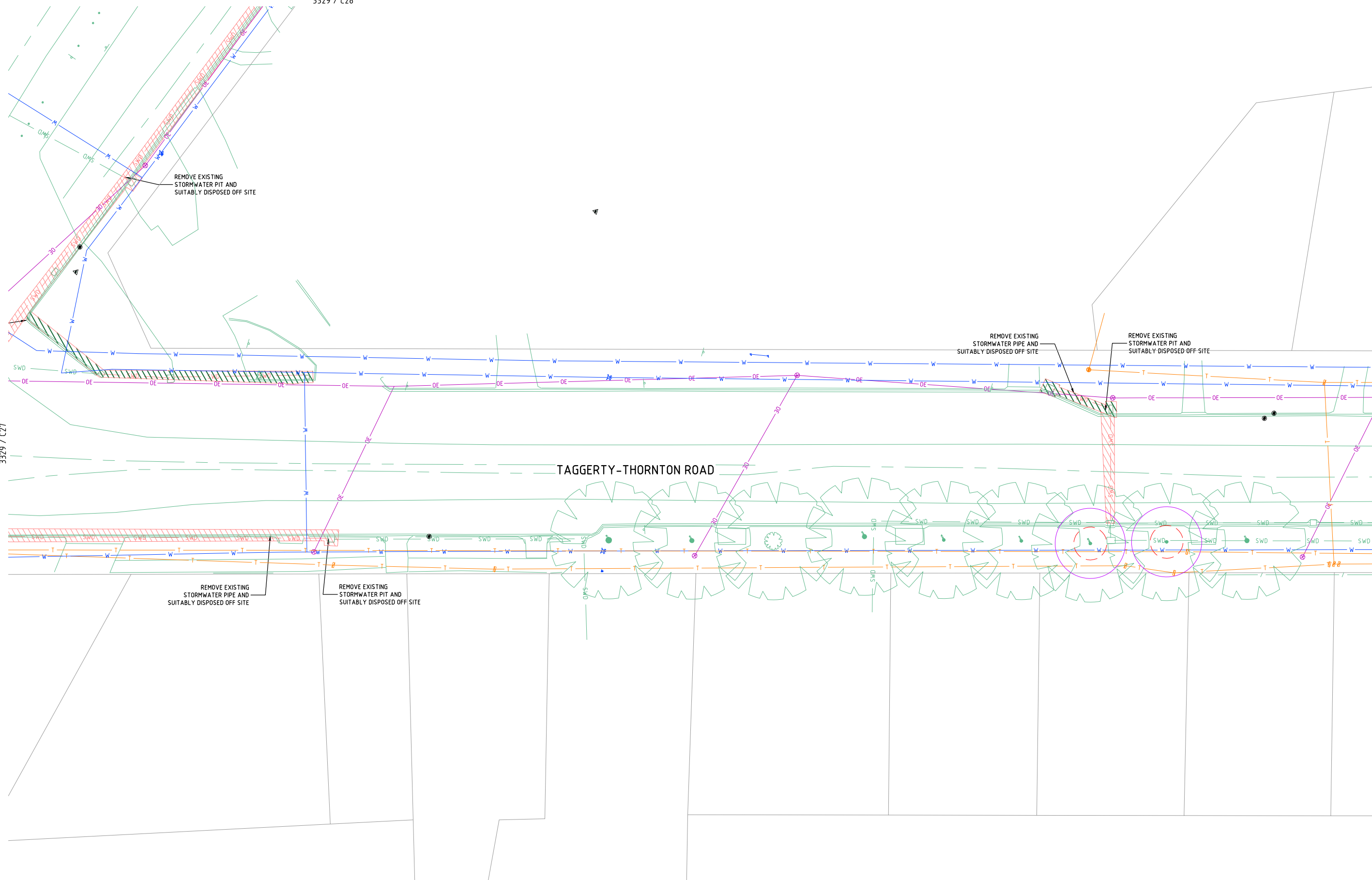
TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	DEMOLITION PLAN (SHEET 5 OF 11)

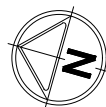
Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C29	Sheet:	29 of 57
Issue:	-	Size:	A1



-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED EDESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/01/2020
ISSUE	DESCRIPTION	DATE

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



a: 38 Wyndham Street, Shepparton
 p: P.O. Box 1948, Shepparton, VIC 3632
 t: 03 5831 3347
 f: 03 5831 3343
 e: info@cafconsulting.com.au
 w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712
Property:	MURRINDINDI SHIRE COUNCIL

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Cad File:	3329 C01.DWG		
Scale:	SCALE AS SHOWN		
	Drawing No:		Shit:
	3329 / C30		30 of 57