

THE NORTH QUARTER ESTATE STAGE 1 (PERMIT NO. 2021-40) THE NORTH QUARTER SHEPPARTON PTY LTD

GENERAL NOTES:

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA 2020) ZONE 55.
- 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.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- WHERE REQUIRED ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
- ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
- ALL FILLING AREAS TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINISH SURFACE LEVELS SHOWN ON PLANS. ALL FILL MATERIAL TO BE SELECTED MATERIALS FREE OF ORGANIC MATTER, PLACED IN COMPACTED LAYERS TO AT LEAST 95% OF MAXIMUM STANDARD DRY DENSITY AND WITHIN +/- 2% OF OPTIMUM MOISTURE CONTENT. COMPACTED LAYERS TO BE LIMITED TO A MAXIMUM COMPACTED DEPTH OF 150mm.
- ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
- T.B.M.'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF T.B.M.'S THEREAFTER.
- AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 150m DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
- ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND KERB AND CHANNEL OR PAVED TRAFFIC AREAS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.
- WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED BY THE SUPERINTENDENT AND LEVELED PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH AS 3798-2007 UNDER LEVEL 1 SUPERVISION.
- NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCIL'S PERMISSION.
- GAS AND WATER CONDUITS ARE TO BE:
Ø50mm . CLASS 12 P.V.C. - SINGLE SERVICE (GAS)
Ø50mm . CLASS 12 P.V.C. - SINGLE SERVICE (WATER)
WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
ROAD PAVEMENT - 0.80m
VERGE, FOOTPATHS - 0.45m
- ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
- WHERE CURVED PIPES ARE SHOWN ON THE DESIGN PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
- WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 98% AUSTRALIAN STANDARD DENSITY.
- WHEN PAVEMENT EXCAVATION IS IN ROCK ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
- LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742-1 AND AS 1742-2 UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN

- ACCORDANCE WITH COUNCIL STANDARDS.
- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
 - TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.
 - CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.
 - ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE SUPERINTENDENT.
 - TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.

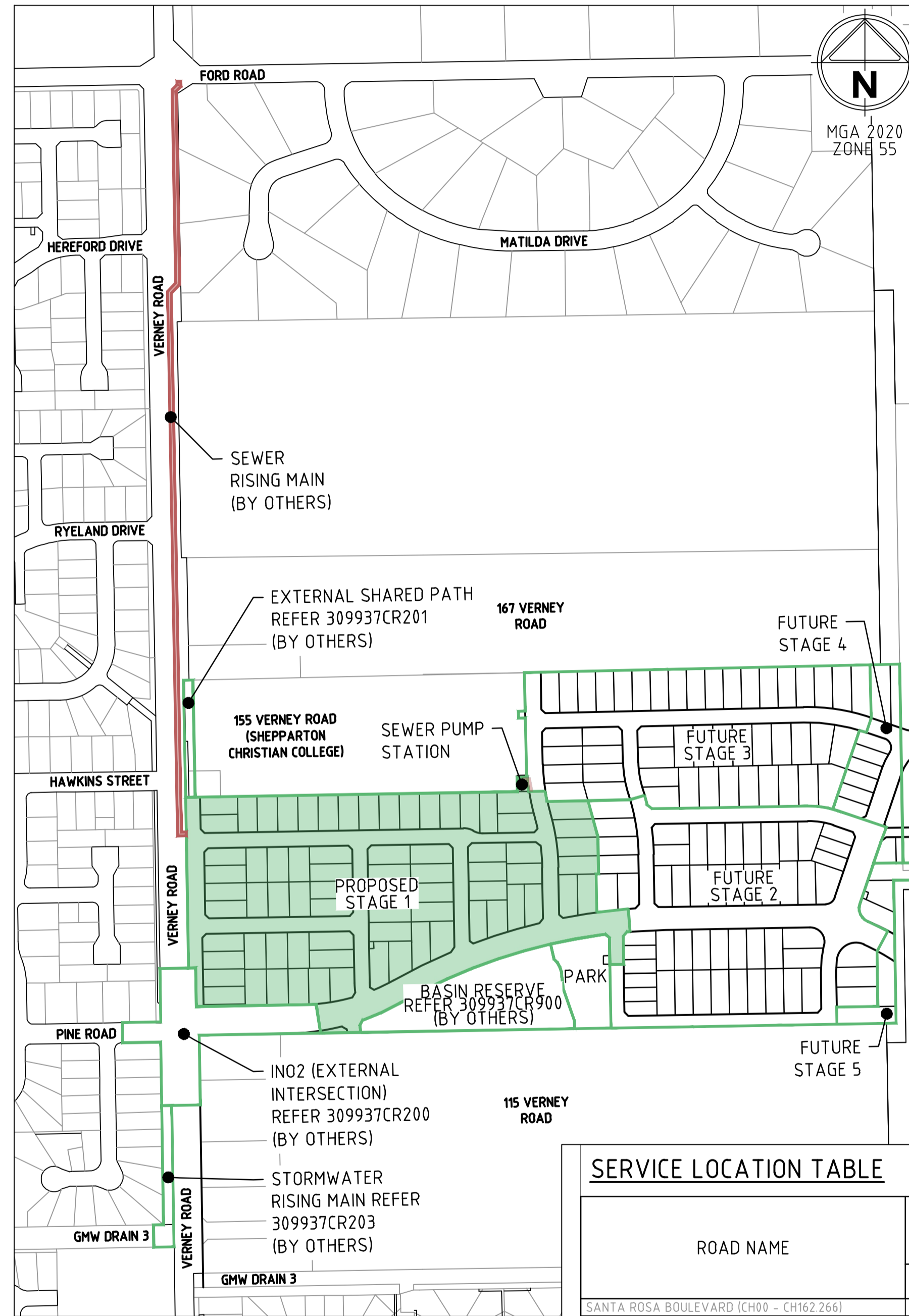
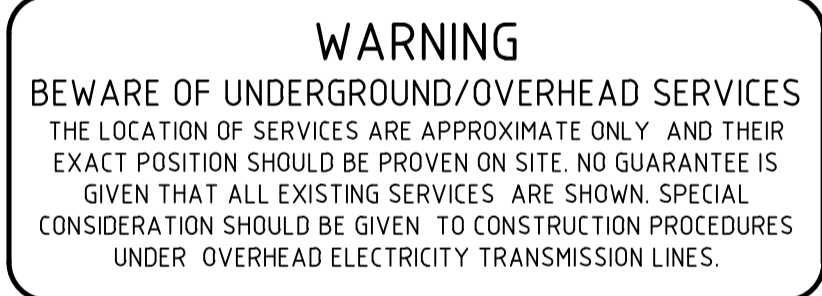
CIVIL WORKS HOLD POINTS

THE FOLLOWING HOLD POINT INSPECTIONS REPRESENT THE MINIMUM NUMBER OF COUNCIL INSPECTIONS AND SHALL APPLY UNTIL WORKS ARE APPROVED BY COUNCIL'S SUPERVISING OFFICER. COUNCIL'S CONSULTING SUPERVISOR MUST ALSO BE PRESENT AT THESE HOLD POINTS.

- PRE-START MEETING
- PRIOR TO COVERS BEING PLACED IN PITS.
- PRIOR TO PLACEMENT OF KERB AND CHANNEL.
- PRIOR TO POURING FOOTPATH.
- TOP SOILING AND COMPACTION OF NATURE STRIP.
- AT PROOF-ROLLING OF SUBGRADE.
- PRIOR TO PLACEMENT OF SUBBASE AND PROOF ROLL.
- PRIOR TO PLACEMENT OF BASE AND PROOF ROLL.
- PRIOR TO PLACEMENT OF THE PRIMER COAT.
- PRIOR TO PLACEMENT OF THE WEARING COURSE.
- PRELIMINARY ACCEPTANCE INSPECTION.
- FINAL ACCEPTANCE INSPECTION.

THE FOLLOWING ARE WITNESS POINTS (COUNCIL ARE MADE AWARE OF THE WORKS BUT WORKS ARE NOT HELD UP AWAITING INSPECTION).

- PRIOR TO BACKFILLING STORMWATER DRAINS.



LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	Dw	Dw
UNDERGROUND ELECTRICITY	E	E
OVERHEAD ELECTRICITY & POLE	OE	T
TELSTRA & SERVICE PIT	T	OF
OPTIC FIBRE	OF	G
GAS MAIN	G	S
SEWER & MANHOLE	S	SRM
SEWER RISING MAIN		SRM
COUNCIL STORMWATER DRAIN & PIT		SWRM
STORMWATER RISING MAIN		SWRM
HOUSE DRAIN	H	H
STORMWATER DRAINAGE PIT NUMBER	1	1
GAS & WATER CONDUITS	GW	GW
PREFERRED VEHICLE CROSSING (BY OTHERS)		
CONSTRUCTED VEHICLE CROSSING		
RIDGE / CHANGE OF GRADE LINE		
EARTHWORKS GRADE		
TIMBER BOLLARDS		
SIGN AND POST		
LIGHT & POLE (BY OTHERS)		
STREET SIGN		
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
ROAD CHAINAGES		CH116.57 IL/RITP CH116.57
LOT CHAINAGE		CH20.06
LIMIT OF WORKS		
BATTER		
ROCK BEACHING		
FENCES		
TREE (& SURVEYED CANOPY) TO BE RETAINED		
TREE TO BE REMOVED		
VEGETATION LINE		
FOOTPATH		
EASEMENT		
CATCH DRAIN		CD
EXPOSED AG CONCRETE		
COBBLESTONES		

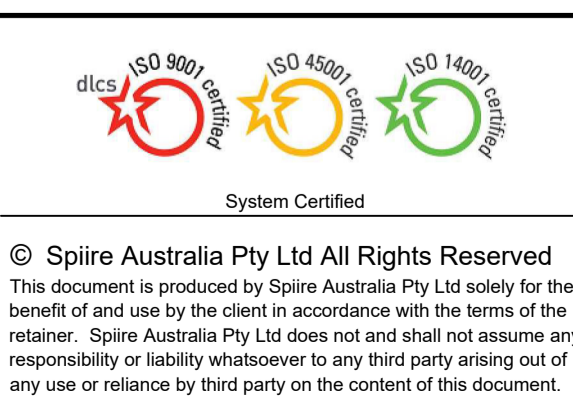
SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY		SEWER RISING MAIN		STORMWATER RISING MAIN		
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	H/V CABLE SIDE	L/V CABLE OFFSET	SIDE	OFFSET	SIDE	OFFSET	
SANTA ROSA BOULEVARD (CH00 - CH162.266)	N	3.75	N	3.13	S	1.75	-	S	3.30	-	-	S	4.30
BROCKWORTH PLACE	E	1.50	E	1.00	W	3.30	-	W	3.80	-	-	-	-
FORTUNE SQUARE (CH00 - CH157.667)	S	2.30	S	1.80	N	1.85	N	2.65	N	2.35	-	-	-
FORTUNE SQUARE (180.979 - CH243.079)	E	2.30	E	1.80	W	3.30	-	W	3.80	-	-	-	-
FORTUNE SQUARE (205.482 - CH425.890)	N	2.30	N	1.80	S	0.80	-	S	1.85	S	2.55	-	-
DUNDONALD WAY (CH00 - CH163.282)	E	2.30	E	1.80	W	1.85	W	2.65	W	2.35	-	-	-
DUNDONALD WAY (CH185.693 - CH264.263)	N	2.30	N	1.80	S	0.80	-	S	1.85	S	2.55	-	-
DUNDONALD WAY (CH286.676 - CH402.313)	W	2.30	W	1.80	E	1.85	-	E	2.35	-	-	-	-
KAISHA LANE	E	1.50	E	1.00	W	3.30	-	W	3.80	-	-	-	-
LANE F	N	1.50	N	1.00	S	0.50	-	S	1.00	S	2.05	-	-
NEWHAVEN DRIVE	E	2.30	E	1.80	W	1.85	-	W	2.35	-	-	-	-
AMBROSIA DRIVE	E	2.30	E	1.80	W	2.85	W	3.65	W	3.35	W	4.35	-

- TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S.
- GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
- * = OFFSET FROM BACK OF KERB

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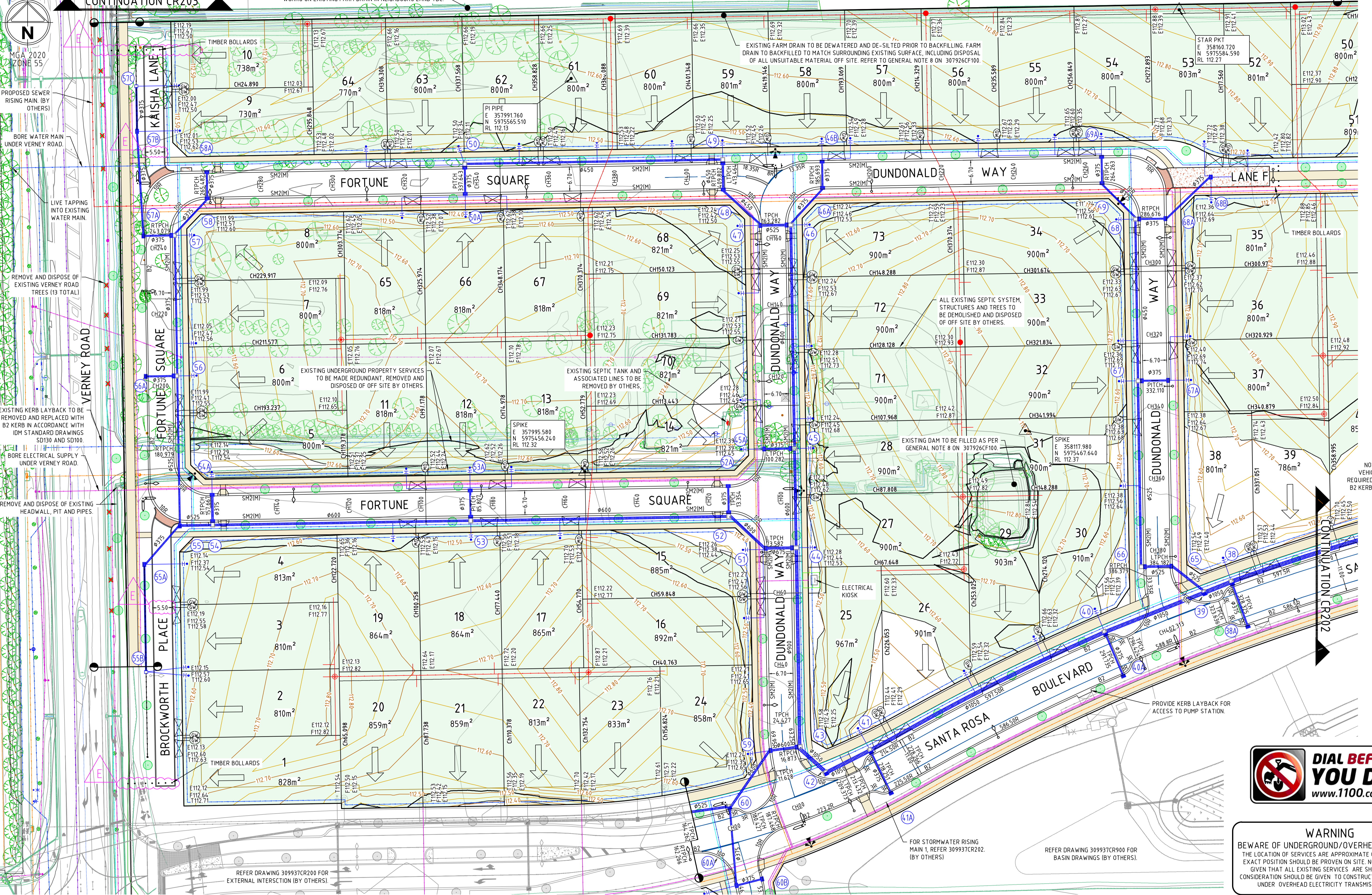
Rev	Amendments	Approved	Date
E	AMENDED & ISSUED TO COUNCIL	A.D.R.	23/05/22
D	ISSUED FOR APPROVAL	A.D.R.	19/04/22
C	ISSUED FOR TENDER	A.D.R.	23/03/22
B	ISSUED FOR APPROVAL	A.D.R.	22/12/21
A	ISSUED FOR TENDER	A.D.R.	30/11/21



Designed A.ANDERSSON	Checked J.KOEHLER
Authorised A.DURSTON-RYAN	Date NOV 2021

**THE NORTH QUARTER ESTATE
STAGE 1 (PERMIT NO. 2021-40)
ROAD AND DRAINAGE
GENERAL NOTES
CITY OF GREATER SHEPPARTON
THE NORTH QUARTER SHEPPARTON PTY LTD**

PRELIMINARY Drg No **307926CR100** Rev **E**



NOTE: CONSTRUCTION OF VEHICLE CROSSOVERS NOT REQUIRED. KERB LAYBACK FOR B2 KERB TO BE DELIVERED BY CONTRACTOR.



WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
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Rev	Amendments	Approved	Date
E	AMENDED & ISSUED TO COUNCIL	A.D.R.	23/05/22
D	ISSUED FOR APPROVAL	A.D.R.	19/04/22
C	ISSUED FOR TENDER	A.D.R.	23/03/22
B	ISSUED FOR APPROVAL	A.D.R.	22/11/21
A	ISSUED FOR TENDER	A.D.R.	30/11/21

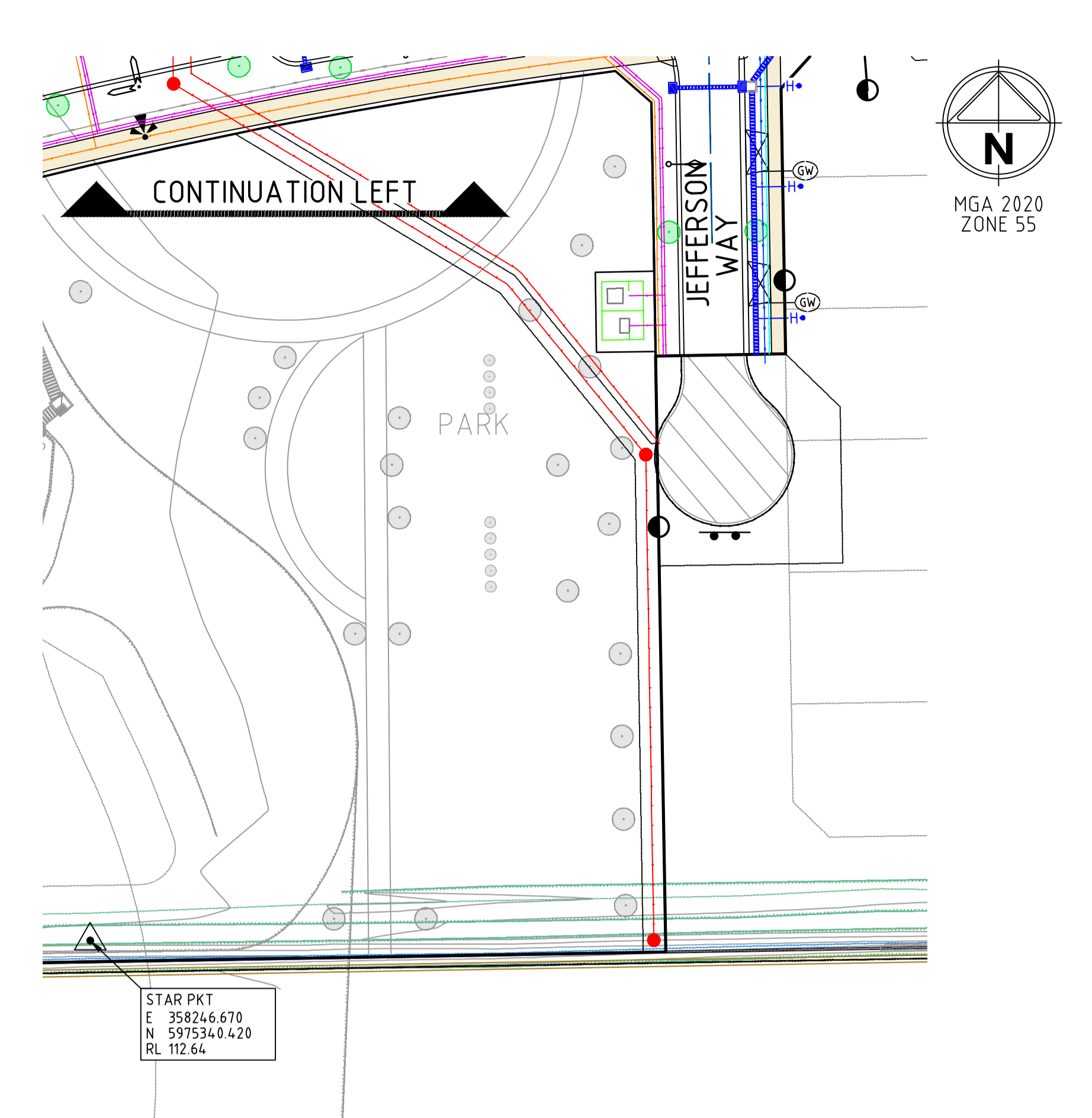
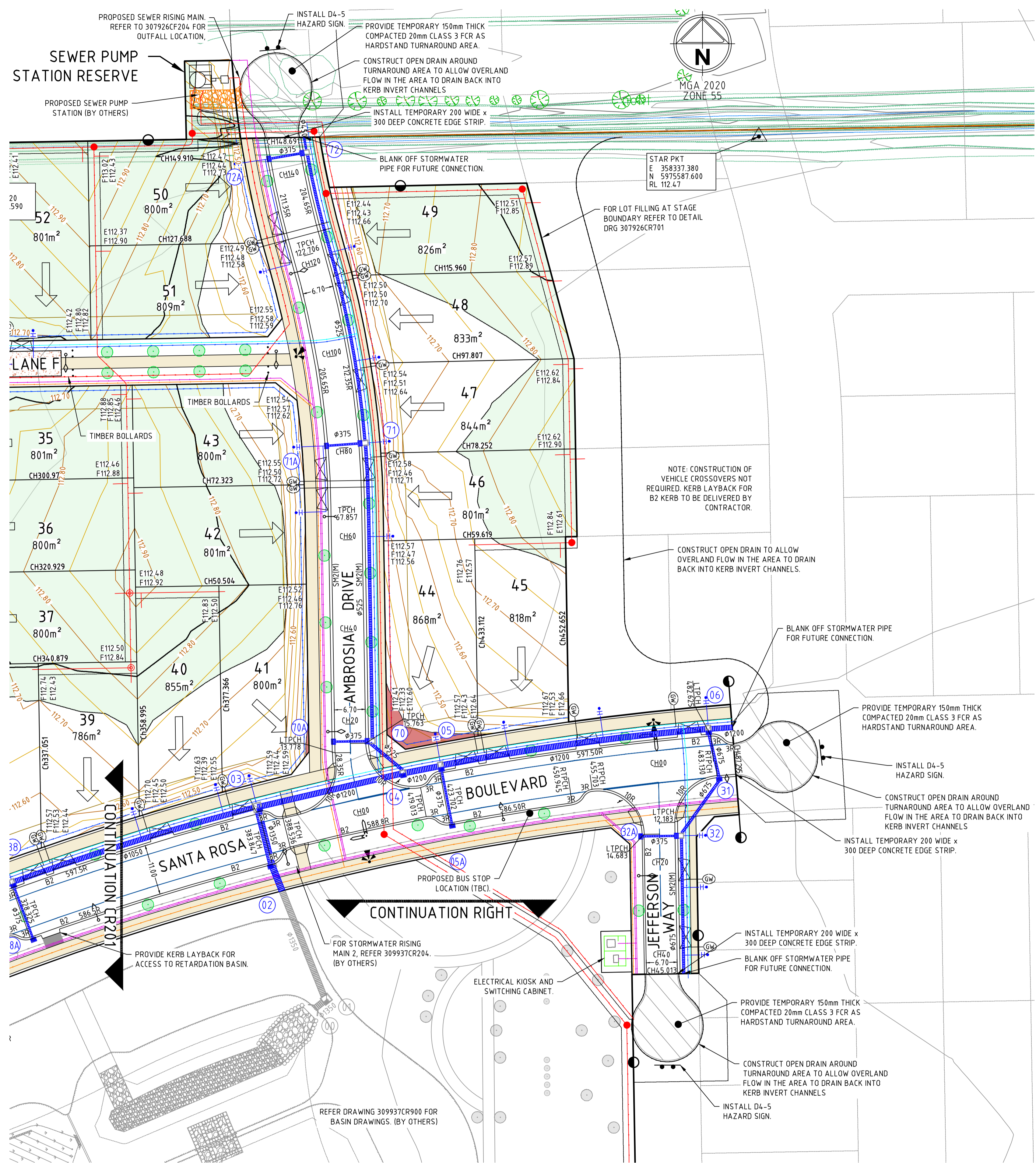


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Checked
J.KOEHLER
Authorised
A.DURSTON-RYAN
Date
NOV 2021

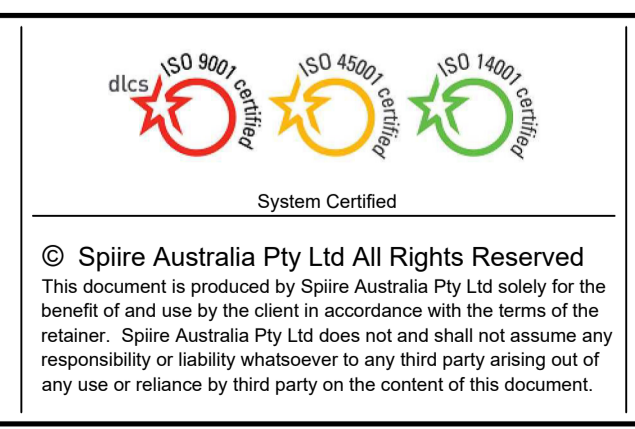
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THE NORTH QUARTER ESTATE
STAGE 1 (PERMIT NO. 2021-40)
ROAD AND DRAINAGE
INTERNAL LAYOUT PLANS (1 OF 2)
CITY OF GREATER SHEPPARTON
THE NORTH QUARTER SHEPPARTON PTY LTD
PRELIMINARY Dwg No. **307926CR201** Rev **E**



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Rev	Amendments	Approved	Date
D	ISSUED FOR APPROVAL	A.D.R.	19/04/22
C	ISSUED FOR TENDER	A.D.R.	23/03/22
B	ISSUED FOR APPROVAL	A.D.R.	22/12/21
A	ISSUED FOR TENDER	A.D.R.	30/11/21



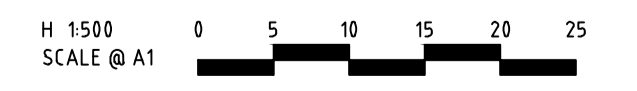
Designed A.ANDERSSON	Checked J.KOEHLER
Authorised A.DURSTON-RYAN	Date NOV 2021

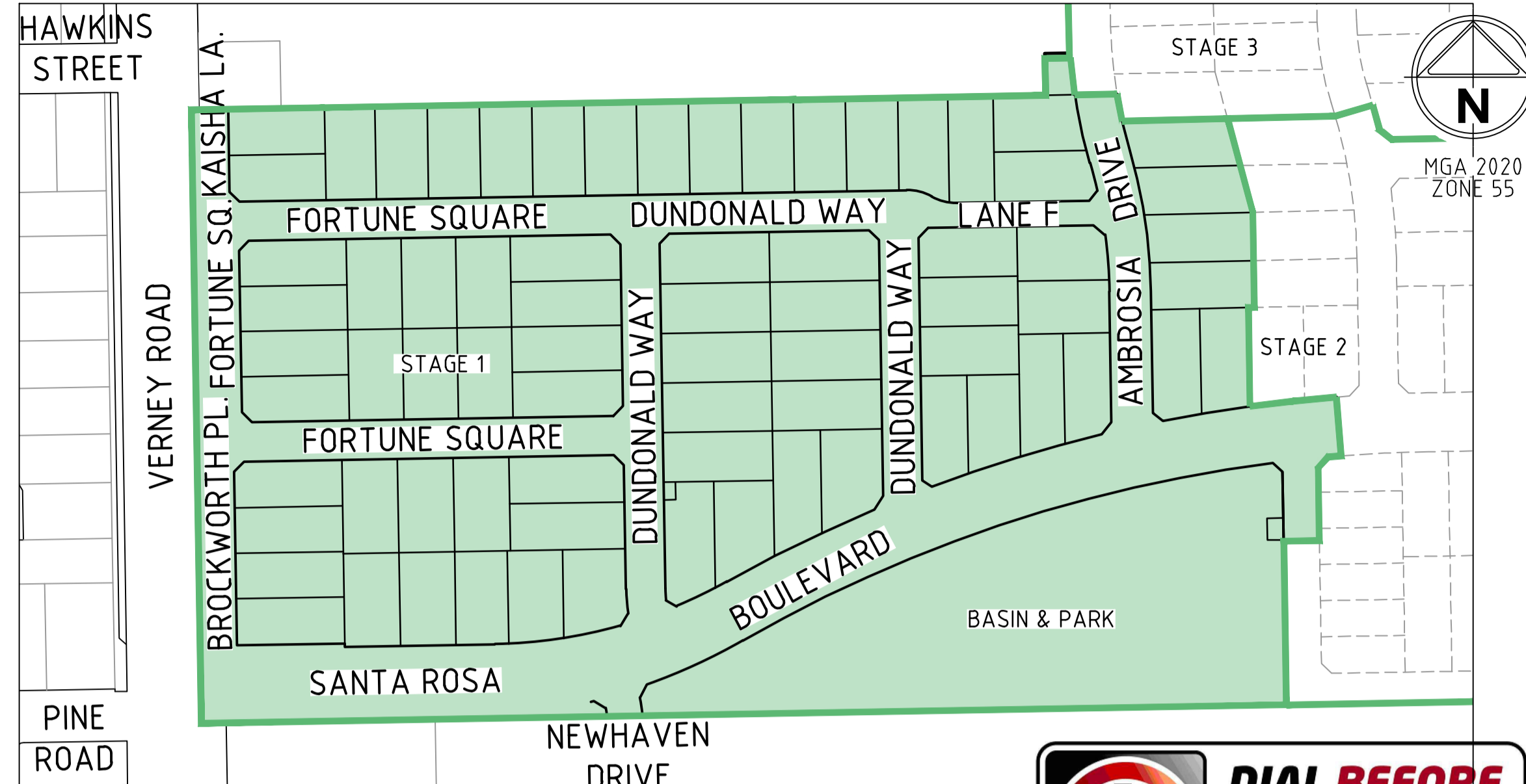
THE NORTH QUARTER ESTATE
STAGE 1 (PERMIT NO. 2021-40)
 ROAD AND DRAINAGE
INTERNAL LAYOUT PLANS (2 OF 2)
 CITY OF GREATER SHEPPARTON
 THE NORTH QUARTER SHEPPARTON PTY LTD

PRELIMINARY Drg No **307926CR202** Rev **D**



WARNING
 BEWARE OF UNDERGROUND/OVERHEAD SERVICES
 THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.





LOCALITY PLAN
SCALE: NOT TO SCALE



GENERAL NOTES:

- ONLY CONTRACTORS ACCREDITED BY GOULBURN VALLEY WATER SHALL BE ELIGIBLE TO CONSTRUCT THESE WORKS.
- ONLY PRODUCTS APPROVED AND CATALOGUED BY THE GOULBURN VALLEY WATER SHALL BE USED.
- WORKS MUST BE TO CONSTRUCTED ACCORDING TO THE MRWA EDITION OF THE WSAW SEWERAGE CODE OF AUSTRALIA WSA 02-2014-3.1 AND GWV SUPPLEMENT.
- THE DESIGN CONSULTANT IS RESPONSIBLE FOR THE DESIGN AND COORDINATION OF THE WORKS. ANY PROBLEM ARISING DURING CONSTRUCTION SHALL BE DIRECTED TO THE CONSULTANT.

SURVEY, SET OUT AND ASSET RECORDING

- ALL CONTOURS AND LEVELS ARE IN METRES TO THE AUSTRALIAN HEIGHT DATUM (A.H.D.)
- ALL CO-ORDINATES SHOWN ARE TO MAP GRID OF AUSTRALIA (MGA 2020) ZONE 55.
- CHAINAGES SHOWN ON DETAIL PLANS ARE DISCONTINUOUS AT MAINTENANCE STRUCTURES. CHAINAGES SHOWN ON LONG SECTION SHEETS ARE CONTINUOUS.
- COORDINATES ARE TO SEWER LINE INTERSECTION POINT UNLESS OTHERWISE SHOWN.
- BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR MUST COMPLETE A LEVEL CHECK BETWEEN ALL TBM'S TO VERIFY LEVEL VALUES.
- TBM'S AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE CONSULTANT TO ARRANGE RE-INSTATEMENT AT THE CONTRACTORS EXPENSE.

PROPERTY CONNECTIONS

- NUMBER OF LOTS TO BE SEWERED: 77 LOTS.
- NUMBER OF LOTS IN STAGE: 73 LOTS.
- ALL PROPERTY CONNECTIONS TO BE DN100 UNLESS OTHERWISE INDICATED.
- PROPERTIES REQUIRING BOUNDARY TRAPS ARE INDICATED IN THE DETAILED PLANS. THE REMAINDER DO NOT REQUIRE BOUNDARY TRAPS.
- BRANCH TIE DISTANCE SHOWN ON DETAIL PLAN ARE FROM APPROVED SUBDIVISION SURVEY PEGS. BRANCH TIES FOR FUTURE LOTS ARE SHOWN AS A CHAINAGE. (CH) DISTANCE IS FROM THE DOWNSTREAM SEWER STRUCTURE.
- INVERT LEVEL OF THE PROPERTY CONNECTION POINT IS SHOWN OPPOSITE THE BRANCH POSITION.
- WHERE A SPUR BRANCH CONNECTS TO A SHAFT, BOTH PROPERTY CONNECTIONS ARE CONSIDERED TO BE SHAFT CONNECTIONS.
- ALL PROPERTY BRANCH CONNECTIONS ARE TO BE TO A MAXIMUM DEPTH OF 1.0m. WHERE NOT VIABLE, A DEEPER CONNECTION TO A MAXIMUM DEPTH OF 2.5m MAY BE PERMITTED WITH A RISER (SUBJECT TO GWV APPROVAL). REFER TO STANDARD DRAWINGS MRWA-S-301 TO MRWA-S-304 AND GWV SUPPLEMENT GWV-S-100 ITEM 11.

EMBEDMENT

- EMBEDMENT SHALL BE TYPE A (REFER MRWA-S-202) UNLESS OTHERWISE SPECIFIED ON THE LONG SECTION.

BACKFILL

- SELECTION AND COMPACTION OF TRENCH BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH THE WATER AGENCY ADOPTED VERSION OF MRWA SPECIFICATION NO 04-03.2 AND GEOTECHNICAL SPECIFICATION.
- REFER TO LONG SECTION DRAWINGS FOR BACKFILL REQUIREMENTS.

COMPACTION TESTING

- TEST RESULTS SHALL BE PROVIDED TO THE SUPERINTENDENT PRIOR TO PRACTICAL COMPLETION / ACCEPTANCE OF WORKS.
- THE CONTRACTOR IS REQUIRED TO UNDERTAKE ALL TESTING OF FILL COMPACTION IN ACCORDANCE WITH MRWA BACKFILL SPECIFICATION 04-03.2

WORK ON LIVE SEWERS:

- ALL WORKS ON LIVE SEWERS MUST BE CARRIED OUT BY GOULBURN VALLEY WATER ACCREDITED CONTRACTOR.
- ALL EXISTING SEWERS MUST BE PLUGGED TO STOP GAS EMISSIONS PRIOR TO ANY CONNECTIONS BEING MADE TO THESE SEWERS.
- TO ENABLE CONNECTIONS TO LIVE ASSETS OR ANY WORK ON LIVE ASSETS, THE CONTRACTOR SHALL SUBMIT THE APPROPRIATE FORMS TO THE SUPERINTENDENT AT LEAST 3 WORKING DAYS PRIOR TO ANY WORKS ON LIVE SEWERS.
- THE CONTRACTOR IS NOT PERMITTED TO BREAK INTO AN EXISTING LIVE PIPELINE, ENTER A LIVE SEWER OR REMOVE THE COVER TO A LIVE MAINTENANCE STRUCTURE UNLESS AUTHORISED BY GOULBURN VALEY WATER.

SAFETY:

- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND OCCUPATIONAL HEALTH AND SAFETY REGULATIONS 2017, HAVE BEEN AND WILL BE COMPLIED WITH.

TESTING:

- THE CONTRACTOR IS TO GIVE A MINIMUM OF TWO 2 DAYS NOTICE TO THE SUPERINTENDENT AND GOULBURN VALLEY WATER PRIOR TO THE TESTING BEING UNDERTAKEN. TESTING IS TO BE UNDERTAKEN IN THE PRESENCE OF SUPERINTENDENT.
- PRESSURE TESTING AND CCTV INSPECTIONS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH THE MRWA EDITION OF THE WSAW CODE OF AUSTRALIA WSA02-2014-3.1 AND GWV SUPPLEMENT.

ENVIRONMENTAL MANAGEMENT PLAN:

- ON COMMENCEMENT OF CONSTRUCTION WORKS THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE EPA PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" (PUBLICATION NO 275 1991).
- ALL TREES AND VEGETATION ARE TO BE PROTECTED UNLESS OTHERWISE INDICATED FOR REMOVAL. THE EXTENT OF ANY VEGETATION REMOVAL SHALL BE CONFIRMED ON SITE WITH THE SUPERINTENDENT AND LOCAL COUNCIL PRIOR TO COMMENCEMENT, AND IN ACCORDANCE WITH ANY PLANNING PERMITS. ANY REMOVAL SHALL BE DOCUMENTED.
- ALL AREAS CONTAINING CREEK VEGETATION, TREES AND REVEGETATED AREAS NEAR THE CONSTRUCTION ZONE ARE TO BE FENCED OFF DURING THE WORKS WITH SECURE AND HIGHLY VISIBLE MATERIAL SUCH AS PARA-WEABBING FENCING.
- ENSURE ALL MACHINERY, EQUIPMENT AND/OR FOOTWEAR ENTERING THE SITE IS WEED AND PATHOGEN FREE.

WARNING
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SCHEDULE 1: DRAWING SCHEDULE

DRAWING No.	TITLE	SHEET NO.	CURRENT REVISION
307926CS100	GENERAL NOTES	1	0
307926CS200	LAYOUT DRAWINGS - SHEET 1	2	0
307926CS201	LAYOUT DRAWINGS - SHEET 2	3	0
307926CS300	LONG SECTIONS - SHEET 1	4	0
307926CS301	LONG SECTIONS - SHEET 2	5	0
307926CS302	LONG SECTIONS - SHEET 3	6	0

SCHEDULE 2: NEW PIPE

PIPE SIZE	PIPE TYPE	LENGTH (m)	PIPE CLASS	STANDARD
DN100	UPVC-DWV	229.740	SN10	WSA PS230
DN150	UPVC-DWV	589.760	SN8	WSA PS230
DN225	UPVC-DWV	682.610	SN8	WSA PS230

SCHEDULE 3: PROPERTY CONNECTIONS

CONNECTION TYPE	TYPE 1a	TYPE 1b	TYPE 2	TYPE 4a	TYPE 4b	TYPE S	TYPE 4S	TYPE B	TYPE 4B	JUMP UP FLEXIBLE COUPLINGS 'F'
QUANTITIES	0	0	53	0	0	6	0	18	0	19

SCHEDULE 4: SERVICE OFFSETS AND LOCATIONS:

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY				SEWER RISING MAIN		STORMWATER RISING MAIN	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	H/V CABLE		L/V CABLE		SIDE	OFFSET	SIDE	OFFSET
							SIDE	OFFSET	SIDE	OFFSET				
SANTA ROSA BOULEVARD (CH00 - CH162.266)	N	3.75	N	3.13	S	1.75	-	-	S	3.30	-	-	S	4.30
SANTA ROSA BOULEVARD (CH162.266 - CH452.652)	N	3.75	N	3.13	S	1.75	S	3.60	S	3.30	-	-	S	4.30
BROCKWORTH PLACE	E	1.50	E	1.00	W	3.30	-	-	W	3.80	-	-	-	-
FORTUNE SQUARE (CH00 - CH157.667)	S	2.30	S	1.80	N	1.85	N	2.65	N	2.35	-	-	-	-
FORTUNE SQUARE (180.979 - CH243.079)	E	2.30	E	1.80	W	3.30	-	-	W	3.80	-	-	-	-
FORTUNE SQUARE (205.482 - CH425.890)	N	2.30	N	1.80	S	0.80	-	-	S	1.85	S	2.55	-	-
DUNDONALD WAY (CH00 - CH163.282)	E	2.30	E	1.80	W	1.85	W	2.65	W	2.35	-	-	-	-
DUNDONALD WAY (CH185.693 - CH264.263)	N	2.30	N	1.80	S	0.80	-	-	S	1.85	S	2.55	-	-
DUNDONALD WAY (CH286.676 - CH402.313)	W	2.30	W	1.80	E	1.85	-	-	E	2.35	-	-	-	-
KAISHA LANE	E	1.50	E	1.00	W	3.30	-	-	W	3.80	-	-	-	-
LANE F	N	1.50	N	1.00	S	0.50	-	-	S	1.00	S	2.05	-	-
NEWHAVEN DRIVE	W	2.30	W	1.80	E	0.35	E	1.35	E	0.85	-	-	-	-
AMBROSIA DRIVE	E	2.30	E	1.80	W	2.85	W	3.65	W	3.35	W	4.35	-	-

- TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S.
- GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
- x = OFFSET FROM BACK OF KERB

SCHEDULE 6: MAINTENANCE STRUCTURES

MAINTENANCE STRUCTURE ID	TYPE - (IS/MS/MC)	COVER CLASS	DEPTH TO INVERT (mm)	SHAFT CONNECTIONS	COMMENTS / REFERENCES (Offsets / Details)
MC21	MC	B	4930	-	-
MC25	MC	B	3270	2 x DN100	-
MS26	MS	B	2120	-	-
MS29	MS	B	2000	-	-
MS30	MS	B	2350	-	-
MS33	MS	B	2870	1 x DN100	-
MS34	MS	B	2590	-	-
MS35	MS	B	2440	1 x DN100	-
MS36	MS	B	2180	-	-

SCHEDULE 7: MAINTENANCE HOLES

MAINTENANCE HOLE ID	MH SHAFT TYPE (GRP/PP (Plastic) / Concrete)	MH TOP TYPE (Conical/Flat)	COVER CLASS	INTERNAL DIAMETER (mm)	MIN. WALL THICKNESS (mm)	DEPTH TO INVERT (mm)	DROPS	LADDER (L) STEP IRONS (S) LANDING (Ld)	CORROSION PROTECTION (Coating / PE or PVC Lining)	SHAFT RE-INFORCEMENT	COMMENTS (Offsets / Details)
MH01	CONCRETE	CONICAL	B	1050	150	7530	1 x DN225	-	-	-	REFER MRWA-S-311
MH02	CONCRETE	CONICAL	B	1050	150	7000	-	-	-	-	-
MH03	CONCRETE	CONICAL	B	1050	150	6950	1 x DN225	-	-	-	REFER MRWA-S-311
MH04	CONCRETE	CONICAL	B	1050	150	6470	-	-	-	-	-
MH05	CONCRETE	CONICAL	B	1050	150	6550	1 x DN150	-	-	-	REFER MRWA-S-311
MH06	CONCRETE	CONICAL	B	1050	150	6360	-	-	-	-	-
MH07	CONCRETE	CONICAL	B	1050	150	5180	1 x DN225	-	-	-	REFER MRWA-S-311
MH08	CONCRETE	CONICAL	B	1050	150	4820	1 x DN100	-	-	-	REFER MRWA-S-311
MH20	CONCRETE	CONICAL	B	1050	150	5220	1 x DN150	-	-	-	REFER MRWA-S-311
MH22	CONCRETE	CONICAL	B	1050	150	4610	1 x DN150	-	-	-	REFER MRWA-S-311
MH23	CONCRETE	CONICAL	B	1050	150	4130	1 x DN150	-	-	-	REFER MRWA-S-311
MH24	CONCRETE	CONICAL	B	1050	150	3760	1 x DN150	-	-	-	REFER MRWA-S-311
MH32	CONCRETE	CONICAL	B	1050	150	3290	-	-	-	-	-

TEMPORARY BENCHMARKS TO BE PROVIDED BY LICENSED SURVEYOR PRIOR TO THE COMMENCEMENT OF WORKS

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C	AMENDED & ISSUED FOR APPROVAL	19/01/22	A.D.R.
B	ISSUED FOR TENDER	30/11/21	A.D.R.
A	ISSUED FOR ENDORSEMENT	22/11/21	A.D.R.

DESIGNED	A.ANDERSSON	AUTHORITY PROJECT No.	300644
DRAWN	A.ANDERSSON	MELWAY REFERENCE	673 R4 (ED.7)
CHECKED	J.KOEHLER	AUTHORISED BY	A.DURSTON-RYAN

THE NORTH QUARTER SHEPPARTON PTY LTD

144 Weisford Street Shepparton
Victoria 3632 Australia T 61 3 5849 1000
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GOULBURN VALLEY WATER
CITY OF GREATER SHEPPARTON
THE NORTH QUARTER ESTATE STAGE 1
SEWER RETICULATION
GENERAL NOTES

SCALE: AS SHOWN
SHEET: 1 OF 6
SPIIRE DWG No.: 307926CS100
REV 0
CONSTRUCTION



MGA 2020
ZONE 55

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LEGEND

SEWER PIPE DETAILS

IL 110.00 UPSTREAM INVERT LEVEL
DN150 PIPE DIAMETER
1 in 180 PIPE GRADE
IL 108.00 DOWNSTREAM INVERT LEVEL

SEWER PROPERTY CONNECTION DETAILS

IL112.00m INVERT LEVEL
TYPE 2A CONNECTION TYPE
6.00 OFFSET FROM DOWNSTREAM LOT BOUNDARY
DSCH13.00 OFFSET FROM DOWNSTREAM MANHOLE

LEGEND

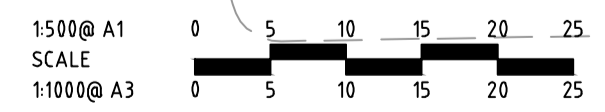
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UNDERGROUND ELECTRICITY	---	E
TELSTRA & SERVICE PIT	---	T
OPTIC FIBRE	---	OF
GAS MAIN	---	G
STORMWATER RISING MAIN	---	SRM
SEWER RISING MAIN	---	SRM
SEWER & MAINTENANCE STRUCTURE	---	S
OVERHEAD ELECTRICAL	---	OE
COUNCIL STORMWATER DRAIN & PIT	---	---
CONCRETE VEHICLE CROSSING	---	---
PERMANENT SURVEY MARK	---	---
TEMPORARY BENCH MARK	---	---
LIMIT OF WORKS	---	---

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06/07/2022



WARNING
BEWARE OF ASBESTOS
SOME UNDERGROUND SERVICES MAYBE CONSTRUCTED FROM ASBESTOS CONTAINING MATERIAL. CONTACT THE SUPERINTENDENT FOR INSTRUCTIONS ON HOW TO MANAGE ANY POTENTIAL ASBESTOS HAZARD

WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.



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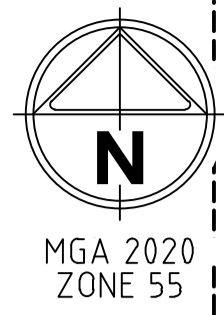
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GOULBURN VALLEY WATER
CITY OF GREATER SHEPPARTON
THE NORTH QUARTER ESTATE STAGE 1
SEWER RETICULATION
LAYOUT DRAWINGS - SHEET 1

SCALE: AS SHOWN
SHEET: 2 OF 6
SPIIRE DWG No.: 307926CS200
REV 0
CONSTRUCTION



LEGEND

SEWER PIPE DETAILS

IL 110.00 UPSTREAM INVERT LEVEL
 DN150 PIPE DIAMETER
 1 in 180 PIPE GRADE
 IL108.00 DOWNSTREAM INVERT LEVEL

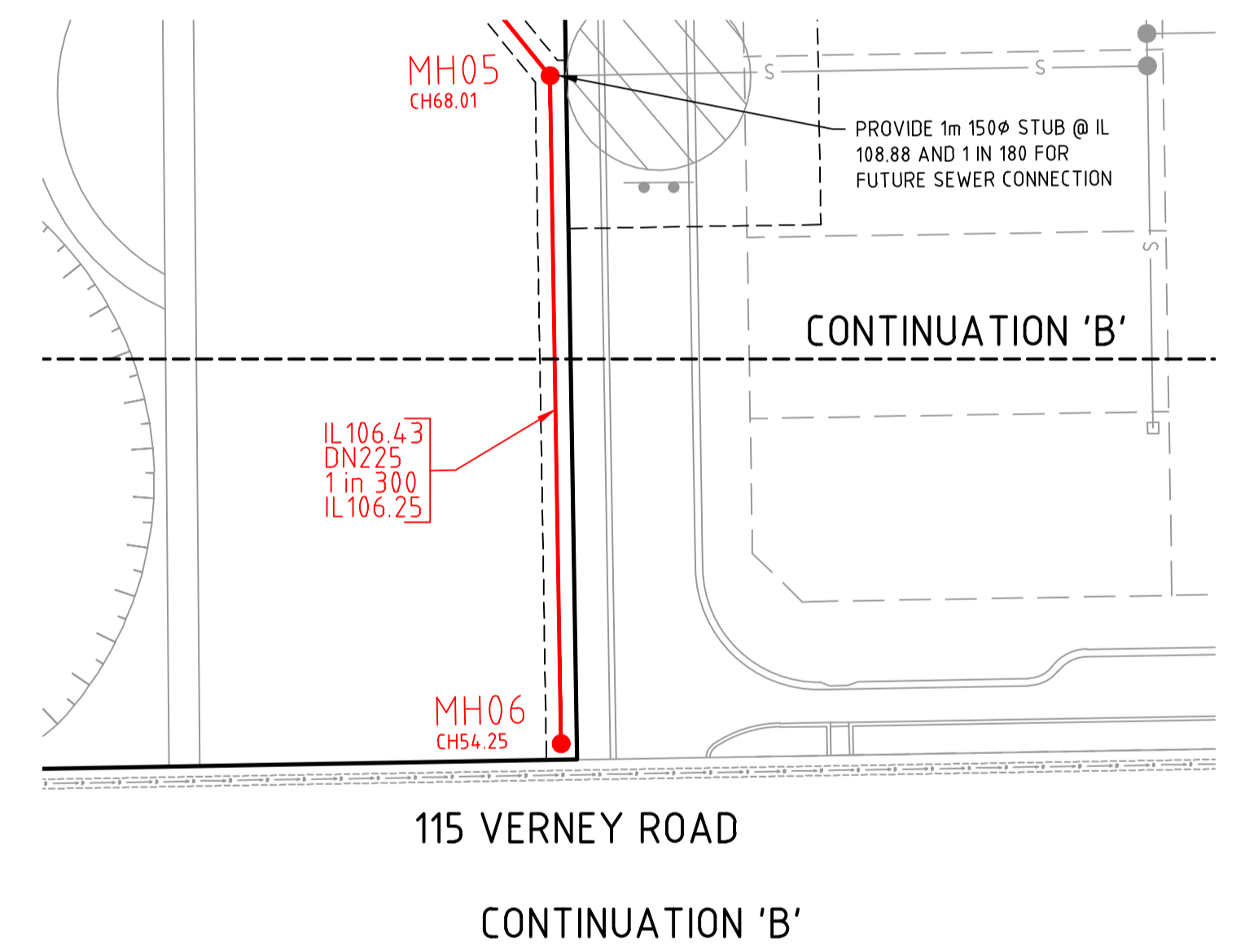
SEWER PROPERTY CONNECTION DETAILS

IL112.00m INVERT LEVEL
 TYPE 2A CONNECTION TYPE
 6.00 OFFSET FROM DOWNSTREAM LOT BOUNDARY
 DSCH13.00 OFFSET FROM DOWNSTREAM MANHOLE

LEGEND

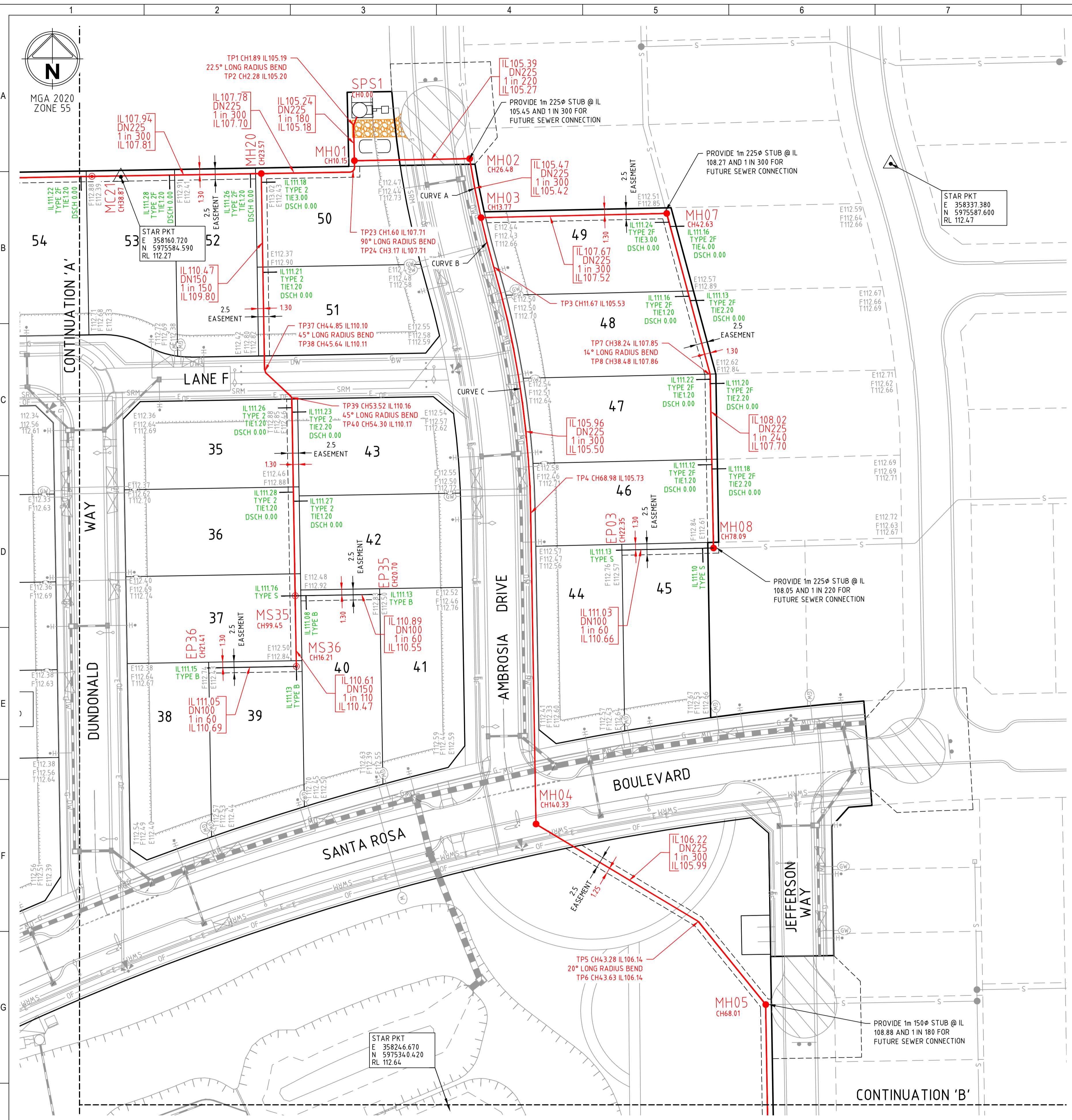
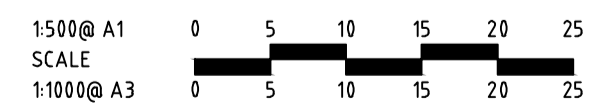
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UNDERGROUND ELECTRICITY	---	E ---
TELSTRA & SERVICE PIT	---	T ---
OPTIC FIBRE	---	OF ---
GAS MAIN	---	G ---
STORMWATER RISING MAIN	---	SRM ---
SEWER RISING MAIN	---	SRM ---
SEWER & MAINTENANCE STRUCTURE	---	S ---
OVERHEAD ELECTRICAL	---	OE ---
COUNCIL STORMWATER DRAIN & PIT	---	---
CONCRETE VEHICLE CROSSING	---	---
PERMANENT SURVEY MARK	---	---
TEMPORARY BENCH MARK	---	---
LIMIT OF WORKS	---	---

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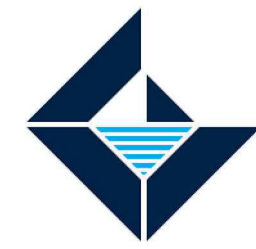


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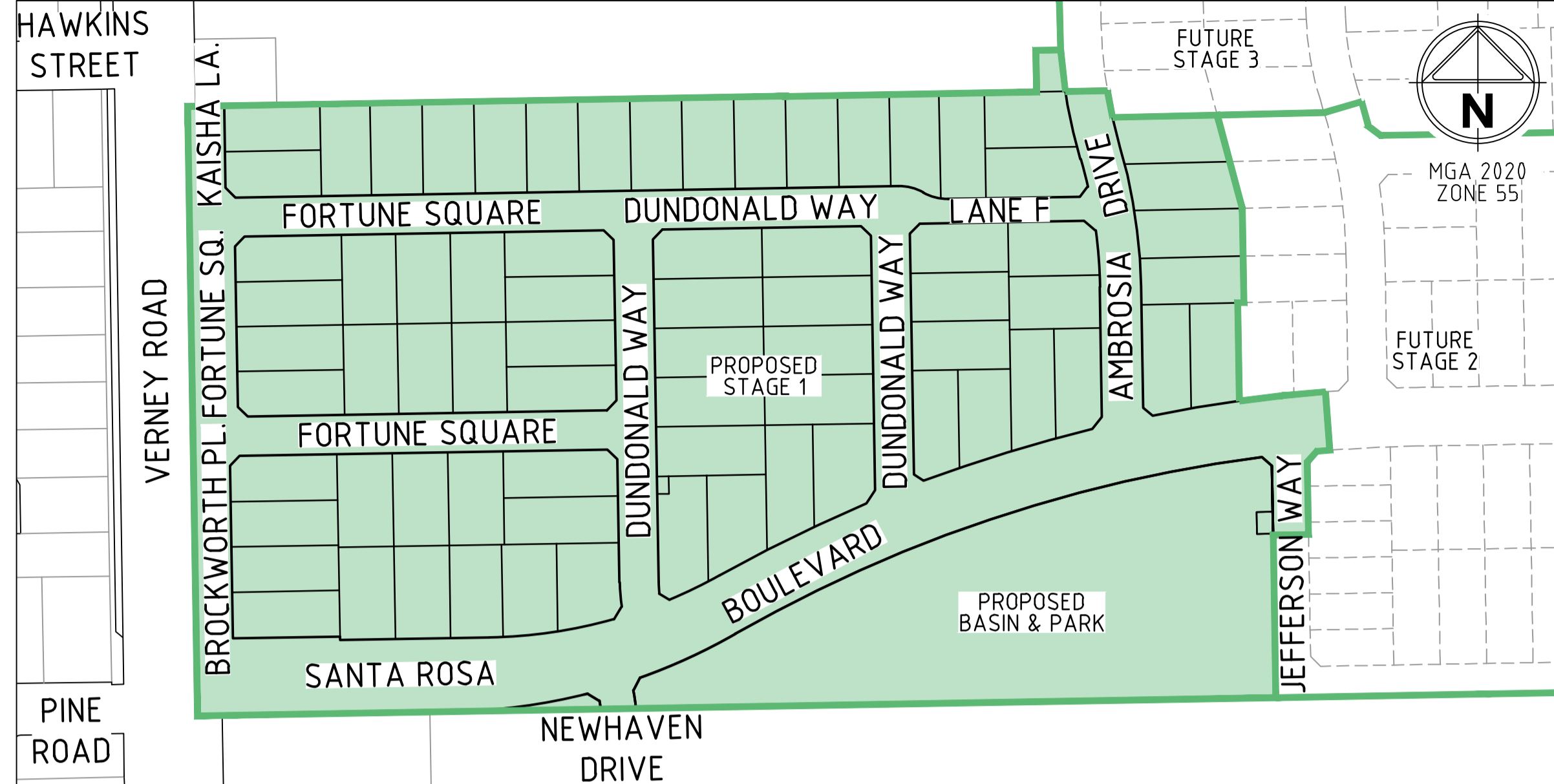


GOULBURN VALLEY WATER
 CITY OF GREATER SHEPPARTON
 THE NORTH QUARTER ESTATE STAGE 1
 SEWER RETICULATION
 LAYOUT DRAWINGS - SHEET 2

SCALE: AS SHOWN
 SHEET: 3 OF 6

SPiIRE DWG No.:	REV
307926CS201	0

CONSTRUCTION



LOCALITY PLAN
SCALE: NOT TO SCALE

OTHER SERVICES (REFER TABLES 5 & 7)

31. TO RECEIVE THE MOST UP TO DATE INFORMATION PRIOR TO CONSTRUCTION, "DIAL BEFORE YOU DIG" SHALL BE UNDERTAKEN TO AID IN THE LOCATION OF OTHER SERVICES. OTHER SERVICES SHALL BE CAREFULLY LOCATED PRIOR TO FULL EXCAVATION AT THE CONTRACTOR'S RISK AND COST. ANY CLASHES OF PROPOSED NEW WORKS WITH OTHER ASSETS SHALL BE REPORTED TO THE SUPERINTENDENT IMMEDIATELY FOR CLARIFICATION.

32. CLEARANCES TO OTHER SERVICES SHALL BE AS PER TABLE 7 AND TABLE 5.5 OF WSA03-2011-3.1 MRWA EDITION. THESE CLEARANCES SHALL APPLY TO SURFACE COVERS AS WELL AS UNDERGROUND ASSETS.

EARTHWORKS AND RETAINING WALLS

33. IN AREAS SUBJECT TO EARTHWORKS, CONSTRUCTION OF WATER ASSETS SHALL NOT COMMENCE UNTIL EARTHWORKS AND RETAINING WALLS HAS BEEN COMPLETED UNLESS WRITTEN APPROVAL HAS BEEN GIVEN BY WATER AUTHORITY.

TESTING, ASSET ACCEPTANCE AND LIVE CONNECTIONS

34. POST CONSTRUCTION ACTIVITIES INCLUDING (BUT NOT LIMITED TO) SWABBING, WATER QUALITY, PRESSURE AND CHLORINATION SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH WSA 03-2011-3.1 MRWA EDITION, THE GVW SUPPLEMENT TO THIS CODE, THE GVW "QDOC/266 NEW WATER INFRASTRUCTURE WATER QUALITY PROCEDURE" AND THE WATER SPECIFICATION. ALL TESTING MUST BE UNDERTAKEN UNDER DIRECT SUPERVISION BY THE SUPERINTENDENT. THE CONTRACTOR MUST PROVIDE A MINIMUM OF 14 DAYS NOTICE TO THE SUPERINTENDENT PRIOR TO THE TESTING BEING UNDERTAKEN.

35. THE WATER AGENCY SHALL BE NOTIFIED IN WRITING 14 FULL WORKING DAYS IN ADVANCE OF TESTING BEING UNDERTAKEN.

36. THE WATER AGENCY SHALL BE NOTIFIED IN WRITING 5 FULL WORKING DAYS IN ADVANCE OF CONNECTION TO THE LIVE NETWORK BEING UNDERTAKEN. SHUT DOWN WORK SHALL BE A SHORT AS IS PRACTICABLE AND SCHEDULED TO COMMENCE AT 9AM ON WORKING DAYS WITH COMPLETION TO OCCUR NO LATER THAN 4PM (MAXIMUM OF 2 HOURS UNLESS APPROVED BY GVW). IN INDUSTRIAL AND COMMERCIAL AREAS THE IMPACT ON BUSINESS SHALL BE CONSIDERED AND IT MAY BE NECESSARY TO CARRY OUT THE WORK OUTSIDE NORMAL WORKING HOURS FOR WHICH APPROVAL IS REQUIRED TO BE SOUGHT THROUGH GVW.

37. VALVES CONNECTING NEW ASSETS TO THE WATER AGENCY'S LIVE SYSTEM SHALL NOT BE OPERATED BY THE CONTRACTOR.

APPURTENANCES (FITTINGS-REFER TABLE 3)

17. REFER TO MRWA-W-300 SERIES FOR VALVES AND HYDRANTS SURROUNDS, COVERS, SURFACE MARKING AND ARRANGEMENTS.

18. MARKER POSTS TO BE INSTALLED IN ACCORDANCE WITH GVW SUPPLEMENT GVW-W-100 AND CFA REQUIREMENTS.

WATER MAIN ALIGNMENT, TRENCHING & COVER (REFER TABLE 5)

19. OFFSETS OF MAINS FROM PROPERTY BOUNDARIES SHALL BE: MIN 600MM (MAINS < DN100) AND MIN 1M (MAINS > DN100).

20. ALL WATER MAINS SHALL PASS OVER DRAINS AND SEWERS UNLESS SHOWN OTHERWISE IN THE DESIGN DRAWINGS.

21. COVER FOR WATERMAINS TO REFER TO MRWA-W-202 AND GVW SUPPLEMENT NOTE 16.

22. DEPTH OF COVER TO TOP OF WATERMAIN TO BE INCREASED BEYOND THE MINIMUM COVER MENTIONED ABOVE WHERE REQUIRED TO ALLOW FOR OTHER UTILITY CROSSINGS, INCLUDING ALLOWANCE FOR THE INSTALLATION OF THE TYPICAL GOULBURN VALLEY WATER DRY TAPPING AND PROPERTY CONNECTIONS (DRY TAPPING INSTALLATIONS AS PER GVW SUPPLEMENT GVW-W-100 FIGURE A).

EMBEDMENT

23. EMBEDMENT SHALL BE TYPE A (REFER MRWA-W-203), UNLESS OTHERWISE SPECIFIED ON FACE PLAN.

BACKFILL

24. TRAFFICABLE BACKFILL SHALL BE COMPLETED AS PER MRWA-W-201 AND THE CURRENT VERSION OF MRWA BACKFILL SPECIFICATION NO. 04-03.2 UNLESS HIGHER STANDARDS ARE REQUIRED FROM ROAD AUTHORITY. THE CONTRACTOR IS REQUIRED TO OBTAIN WRITTEN CONFIRMATION OF THE ROAD AUTHORITIES ACCEPTANCE OF THE PROPOSED BACKFILL.

25. NON-TRAFFICABLE BACKFILL SHALL BE COMPLETED AS PER MRWA-W-201 AND THE CURRENT VERSION OF MRWA BACKFILL SPECIFICATION NO. 04-03.2

TABLE 7: VERTICAL CLEARANCES

EXISTING OR PROPOSED SERVICE	MINIMUM VERTICAL CLEARANCE (mm)
WATER MAINS ≤ DN375	150
WATER MAINS > DN375	300
GAS MAINS	150
TELECO CONDUITS AND CABLES	150
ELECTRICITY CONDUITS AND CABLES	225
STORMWATER DRAIN & PITS	150
SEWERS - GRAVITY	500
SEWERS - PRESSURE & VACUUM	500

- VERTICAL CLEARANCE BETWEEN WATER MAINS SHALL DEPEND ON THE LARGER MAIN DIAMETER.
 - WATER MAINS SHALL CROSS OVER SEWERS AND DRAINS UNLESS SHOWN OTHERWISE.
 - MAINTAIN ADDITIONAL CLEARANCE FROM HIGH VOLTAGE ELECTRICAL CABLES TO ALLOW FOR A PROTECTIVE BARRIER AND MARKING.
 - DEPTH OF COVER TO PROPOSED WATERMAIN MAY BE REQUIRED TO BE INCREASED TO ACHIEVE CLEARANCES IN TABLE 7, REFER TO NOTE 21.

NOTE: CONTRACTOR TO ALLOW PE PIPE TO COOL TO GROUND TEMPERATURE (MIN 25°) BEFORE WELDING AND POURING CONCRETE ANCHORAGE

PRESSURE RELIEF VALVE REQUIRED ON ALL CONNECTIONS TO POTABLE AND RECYCLE NETWORK. THE DEVELOPER ELECTS NOT TO CONSTRUCT PRESSURE REDUCING VALVES WITH THESE WORKS

FOR THE DURATION OF PROCLAIMED WATER RESTRICTIONS, THE CONTRACTOR SHALL CONFORM WITH THE RESTRICTIONS AND ANY OTHER WATER CONSERVATION REQUIREMENTS IMPOSED BY THE WATER AGENCY.

TABLE 8: DRAWING SCHEDULE

DRAWING No.	TITLE	SHEET No.	CURRENT REVISION
307926CW100	FACE SHEET	1	0
307926CW200	DESIGN PLAN (1 OF 2)	2	0
307926CW201	DESIGN PLAN (2 OF 2)	3	0
307926CW202	DETAILS (1 OF 3)	4	0
307926CW203	DETAILS (2 OF 3)	5	0
307926CW204	DETAILS (3 OF 3)	6	0

TABLE 1: NEW PIPE SCHEDULE

SIZE (mm)	NEW WORK		DRINKING WATER
	TYPE	CLASS	
280	PE100 AS/NZS 4130	PN 16	203.6
225	MPVC AS/NZS 4765:2007	SERIES 2 PN 16	300.5
180	PE100 AS/NZS 4130	PN 16	113.8
150	MPVC AS/NZS 4765:2007	SERIES 2 PN 16	474.1
125	PE100 AS/NZS 4130	PN 16	105.0
100	MPVC AS/NZS 4765:2007	SERIES 2 PN 16	540.2
63	PE100 AS/NZS 4130	PN 16	84.9
25	PE100 AS/NZS 4130	PN 16	PROPERTY SERVICES

TABLE 3: HYDRANT & WASHOUT SCHEDULE

MAIN SIZE	FITTING TYPE	OWNERSHIP	LOCATION	STREET	LOCATION
225	HYDRANT	GVW	IN LINE	SANTA ROSA BOULEVARD	15.85m W FROM EBL OF LOT 20
225	HYDRANT	GVW	IN LINE	SANTA ROSA BOULEVARD	3.35m E OF SPLAY LOT 24
225	HYDRANT	GVW	IN LINE	SANTA ROSA BOULEVARD	0.25m E OF SPLAY LOT 30
225	HYDRANT	GVW	IN LINE	SANTA ROSA BOULEVARD	7.65m E FROM WBL OF LOT 45
225	WASHOUT	GVW	END OF LINE	SANTA ROSA BOULEVARD	1.00m PAST LIMIT OF WORKS
150	HYDRANT	GVW	IN LINE	FORTUNE SQUARE	0.80m W OF SPLAY LOT 9
150	HYDRANT	GVW	IN LINE	FORTUNE SQUARE	0.00m W OF EBL OF LOT 61
150	HYDRANT	GVW	IN LINE	DUNDONALD WAY	8.95m W OF EBL OF LOT 55
150	HYDRANT	GVW	IN LINE	AMBROSIA DRIVE	7.75m N OF SBL OF LOT 48
150	HYDRANT	GVW	IN LINE	AMBROSIA DRIVE	18.55m S OF NBL OF LOT 44
150	WASHOUT	GVW	END OF LINE	AMBROSIA DRIVE	3.20m PAST LIMIT OF WORKS
150	WASHOUT	GVW	END OF LINE	NEWHAVEN DRIVE	1.00m BEFORE LIMIT OF WORKS
100	HYDRANT	GVW	IN LINE	FORTUNE SQUARE	2.00m E OF SPLAY LOT 4
100	HYDRANT	GVW	IN LINE	FORTUNE SQUARE	16.90m E OF WBL OF LOT 15
100	HYDRANT	GVW	IN LINE	DUNDONALD WAY	7.05m N OF SBL OF LOT 73
100	HYDRANT	GVW	IN LINE	DUNDONALD WAY	7.60m N OF SBL OF LOT 32
100	HYDRANT	GVW	IN LINE	DUNDONALD WAY	12.65m S OF SBL OF KIOSK
100	WASHOUT	GVW	END OF LINE	JEFFERSON WAY	1.00m PAST LIMIT OF WORKS

TABLE 4: CURVED PIPE & DEFLECTION SCHEDULE

LOCATION	METHOD	OFFSET/RADIUS (m)	TOTAL PIPE LENGTH (m)	PIPE LENGTHS (m)
CURVE A	FULL LENGTH PIPES & 1° PIPE DEFLECTIONS	3.75m OFFSET / 203.75m RADIUS	36.8	6.0
CURVE B	COLD PIPE BEND	3.75m OFFSET / 203.75m RADIUS	41.6	41.6
CURVE C	FULL LENGTH PIPES & 1° PIPE DEFLECTIONS	3.75m OFFSET / 203.75m RADIUS	22.2	6.0
CURVE D	FULL LENGTH PIPES & 1° PIPE DEFLECTIONS	3.75m OFFSET / 600.25m RADIUS	65.5	6.0
CURVE E	COLD PIPE BEND	3.75m OFFSET / 600.25m RADIUS	36.4	36.4
CURVE F	FULL LENGTH PIPES & 1° PIPE DEFLECTIONS	3.75m OFFSET / 600.25m RADIUS	65.2	6.0
CURVE G	COLD PIPE BEND	3.75m OFFSET / 600.25m RADIUS	93.5	93.5
CURVE H	COLD PIPE BEND	2.30m OFFSET / 44.3m RADIUS	4.5	4.5
CURVE I	COLD PIPE BEND	2.30m OFFSET / 30.0m RADIUS	10.4	10.4
CURVE J	COLD PIPE BEND	2.30m OFFSET / 25.0m RADIUS	9.3	9.3
CURVE K	COLD PIPE BEND	2.30m OFFSET / 19.3m RADIUS	3.8	3.8
CURVE L	FULL LENGTH PIPES & 1° PIPE DEFLECTIONS	2.30m OFFSET / 214.7m RADIUS	30.6	6.0
CURVE M	COLD PIPE BENDS	2.30m OFFSET / 214.7m RADIUS	11.7	11.7
CURVE N	FULL LENGTH PIPES & 1° PIPE DEFLECTIONS	2.30m OFFSET / 214.7m RADIUS	14.7	3.0
CURVE O	FULL LENGTH PIPES & 1° PIPE DEFLECTIONS	2.30m OFFSET / 202.3m RADIUS	27.8	6.0
CURVE P	COLD PIPE BENDS	2.30m OFFSET / 100.0m RADIUS	8.0	8.0
CURVE Q	COLD PIPE BENDS	1.50m OFFSET / 30.0m RADIUS	5.2	5.2

- OFFSET NOTATED IN TABLE REFERS TO OFFSET FROM ROAD RESERVE BOUNDARY. REFER TO TABLE 5: SERVICE ALIGNMENT SCHEDULE.

TABLE 5: SERVICE ALIGNMENT SCHEDULE (OFFSET IN m)

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY		SEWER RISING MAIN		STORMWATER RISING MAIN		
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	H/V CABLE		SIDE	OFFSET	SIDE	OFFSET	
							SIDE	OFFSET					
SANTA ROSA BOULEVARD (CH00 - CH162.266)	N	3.75	N	3.13	S	1.75	-	S	3.30	-	-	S	4.30
SANTA ROSA BOULEVARD (CH162.266 - CH452.652)	N	3.75	N	3.13	S	1.75	S	3.60	S	3.30	-	S	4.30
BROCKWORTH PLACE	E	1.50	E	1.00	W	3.30	-	W	3.80	-	-	-	-
FORTUNE SQUARE (CH00 - CH157.667)	S	2.30	S	1.80	N	1.85	N	2.65	N	2.35	-	-	-
FORTUNE SQUARE (180.979 - CH243.079)	E	2.30	E	1.80	W	3.30	-	W	3.80	-	-	-	-
FORTUNE SQUARE (205.482 - CH425.890)	N	2.30	N	1.80	S	0.80	-	S	1.85	S	2.55	-	-
DUNDONALD WAY (CH00 - CH163.282)	E	2.30	E	1.80	W	1.85	W	2.65	W	2.35	-	-	-
DUNDONALD WAY (CH185.693 - CH264.263)	N	2.30	N	1.80	S	0.80	-	S	1.85	S	2.55	-	-
DUNDONALD WAY (CH286.676 - CH402.313)	W	2.30	W	1.80	E	1.85	-	E	2.35	-	-	-	-
KAISHA LANE	E	1.50	E	1.00	W	3.30	-	W	3.80	-	-	-	-
LANE F	N	1.50	N	1.00	S	0.50	-	S	1.00	S	2.05	-	-
NEWHAVEN DRIVE	W	2.30	W	1.80	E	0.35	E	1.35	E	0.85	-	-	-
AMBROSIA DRIVE	E	2.30	E	1.80	W	2.85	W	3.65	W	3.35	W	4.35	-

1. TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG's.
 2. GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
 3. * = OFFSET FROM BACK OF KERB

TABLE 6: THRUST RESTRAINT SCHEDULE

LOCATION	TYPE	FITTING	AHBP (kPa) USED	THRUST AREA (m²) OR W(m) x Y(m)	QUANTITY
1	FIGURE 205H-J MRWA-W-205A	225ø VALVE	50	1.29	1
2	FIGURE 205H-J MRWA-W-205A	150ø VALVE	50	0.60	3
3	FIGURE 205H-J MRWA-W-205A	100ø VALVE	50	0.30	3
4	FIGURE 205A-A MRWA-W-205A	150ø x 100ø TEE	50	0.29	4
5	FIGURE 205A-A MRWA-W-205A	100ø x 100ø TEE	50	0.29	1
6	FIGURE 205A-E MRWA-W-205A	150ø WASHOUT	50	0.60	1
7	FIGURE 205A-E MRWA-W-205A	100ø WASHOUT	50	0.29	1
8	FIGURE 109-D MRWA-W-109	63ø FLUSHING BOX	50	REDWOOD & CRB	2
9	FIGURE 205H-J MRWA-W-205A	225ø PE TO PVC CONNECTION (INCLUDING VALVE)	50	3.22	2
10	FIGURE 205H-J MRWA-W-205A	225ø PE TO PVC CONNECTION	50	2.43	4
11	FIGURE 205H-J MRWA-W-205A	150ø PE TO PVC CONNECTION (INCLUDING VALVE)	50	1.34	3
12	FIGURE 205H-J MRWA-W-205A	150ø PE TO PVC CONNECTION	50	1.01	2
13	FIGURE 205H-J MRWA-W-205A	100ø PE TO PVC CONNECTION (INCLUDING VALVE)	50	0.65	4
14	FIGURE 205H-J MRWA-W-205A	100ø PE TO PVC CONNECTION	50	0.49	2
15	FIGURE 205H-J MRWA-W-205A	150ø 45° BEND	50	0.16	2

- PLEASE NOTE THRUST BLOCKS HAVE BEEN SIZED FOR 100m HEAD & TEST PRESSURE 1250kPa.

TABLE 2: PIPE MATERIAL SCHEDULE

MATERIAL	REFERENCE
PVC-M	WSA-PS-209
PE (RETIC & SUBMAIN)	WSA-PS-207
PE (PROPERTY SERVICE)	WSA-PS-215

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WARNING
BEWARE OF ASBESTOS
SOME UNDERGROUND SERVICES MAY BE CONSTRUCTED FROM ASBESTOS CONTAINING MATERIAL. CONTACT THE SUPERINTENDENT FOR INSTRUCTIONS ON HOW TO MANAGE ANY POTENTIAL ASBESTOS HAZARD



ORIGINAL SIGNED BY
GOULBURN VALLEY WATER
06/07/2022

GENERAL NOTES:

1. ONLY CONTRACTORS ACCREDITED BY GOULBURN VALLEY WATER SHALL BE ELIGIBLE TO CONSTRUCT THESE WORKS.

2. ONLY PRODUCTS APPROVED AND CATALOGUED BY THE WATER AGENCY SHALL BE USED.

3. WORKS MUST BE CONSTRUCTED ACCORDING TO WSA 03-2011-3.1 MRWA EDITION, SPECIFICATIONS AND STANDARD DRAWINGS, TECHNICAL AND CONSTRUCTION REQUIREMENTS. THE CONTRACTOR SHALL ENSURE THAT THEY ARE CONVERSANT WITH ALL CURRENT REVISIONS, AMENDMENTS AND UPDATES THAT THE RELEVANT WATER AGENCY HAS MADE TO THEIR STANDARDS.

4. DW ASSETS SHALL ONLY BE CONSTRUCTED AFTER DEEPER ASSETS AFFECTING THE WATER MAINS HAVE BEEN CONSTRUCTED (EG: SEWERAGE & DRAINAGE ASSETS).

5. THIS DESIGN IS TO BE READ IN CONJUNCTION WITH ROAD AND DRAINAGE PLANS.

6. THE CONTRACTOR SHALL OBTAIN A ROAD OPENING PERMIT FOR ANY WORKS WITHIN THE ROAD RESERVE AND COMPLY WITH ALL REQUIREMENTS OF THE ROAD OWNER.

7. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE WATER SPECIFICATION, APPROVED MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS, AND TO THE SATISFACTION OF SUPERINTENDENT.

8. ALL NEW OR ALTERED MAINS TO BE CONSTRUCTED UNDER AGREEMENT CONDITIONS IN ACCORDANCE WITH THE WATER AGENCY'S SPECIFICATION DRAWING AT OFFSETS SHOWN.

9. PRELAI D SERVICES PHOTOGRAPHS OF AT LEAST 5 INSTALLATIONS IS REQUIRED.

SURVEY, SET OUT AND ASSET RECORDING

10. TEMPORARY BENCH MARKS (TBM) FOR THE SET OUT OF WORKS TO THE AUSTRALIAN HEIGHT DATUM (AHD) ARE PROVIDED IN THE DESIGN DRAWINGS.

11. ALL LEVELS ARE IN METRES TO AHD.

12. ALL CO-ORDINATES ARE IN METRES TO THE MAP GRID OF AUSTRALIA (MGA 2020) ZONE 55.

13. THE CONTRACTOR IS DIRECTLY RESPONSIBLE FOR ENSURING THE PROJECT SET OUT IS CONSISTENT WITH THE DESIGN. SHOULD ACTUAL SITE CONDITIONS CONFLICT IN ANY WAY WITH THAT DOCUMENTED, THE CONTRACTOR SHALL CONTACT THE SUPERINTENDENT FOR CLARIFICATION BEFORE PROCEEDING.

14. WHERE NOT ALLOWED FOR IN THE CONTRACT, THE CONTRACTOR IS TO ENGAGE A SUITABLY QUALIFIED AND EXPERIENCED SURVEYOR TO UNDERTAKE ASSET RECORDING OF THE WORK. ALL SURVEYOR WORKS AND DATA RECORDING SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE MRWA SURVEY MANUAL.

15. ALL SPECIFIC PIPE MATERIALS (EG: PVC-M) SHALL BE INDICATED IN THE AS CONSTRUCTED INFORMATION

PRODUCTS AND MATERIALS (REFER TABLES 1 & 2)

16. DW SYSTEM COMPONENTS SHALL BE IDENTIFIED AS PER SECTION 4.2 OF WSA03-2011-3.1 MRWA EDITION.

LEGEND

X	VALVE
○	WATER AUTHORITY HYDRANT. BELOW GROUND.
●	COUNCIL HYDRANT. BELOW GROUND.
▶	TAPER
○	SOC WASHOUT BEND WITH HYDRANT
○	REMOVE FITTING
○	FOR ADDITIONAL SYMBOLS NOT INCLUDED HERE REFER TO MRWA-W-100
○	SWAB INSERTION POINT
○	SWAB REMOVAL POINT
○	WATER QUALITY SAMPLING POINT (DUAL WATER)

DESIGNED	M. ISMAIL	AUTHORITY PROJECT No.	300644
DRAWN	M. ISMAIL	MELWAY REFERENCE	673 R4 (ED.7)
CHECKED	J. KOEHLER	AUTHORISED	A. DURSTON-RYAN
		DATE:	OCT 2021

THE NORTH QUARTER SHEPPARTON PTY LTD

144 Weisford Street Shepparton
Victoria 3632 Australia T 61 3 5849 1000
spiire.com.au ABN 55 050 029 635

GOULBURN VALLEY WATER
CITY OF GREATER SHEPPARTON
THE NORTH QUARTER ESTATE, STAGE 1
WATER RETICULATION
FACE SHEET

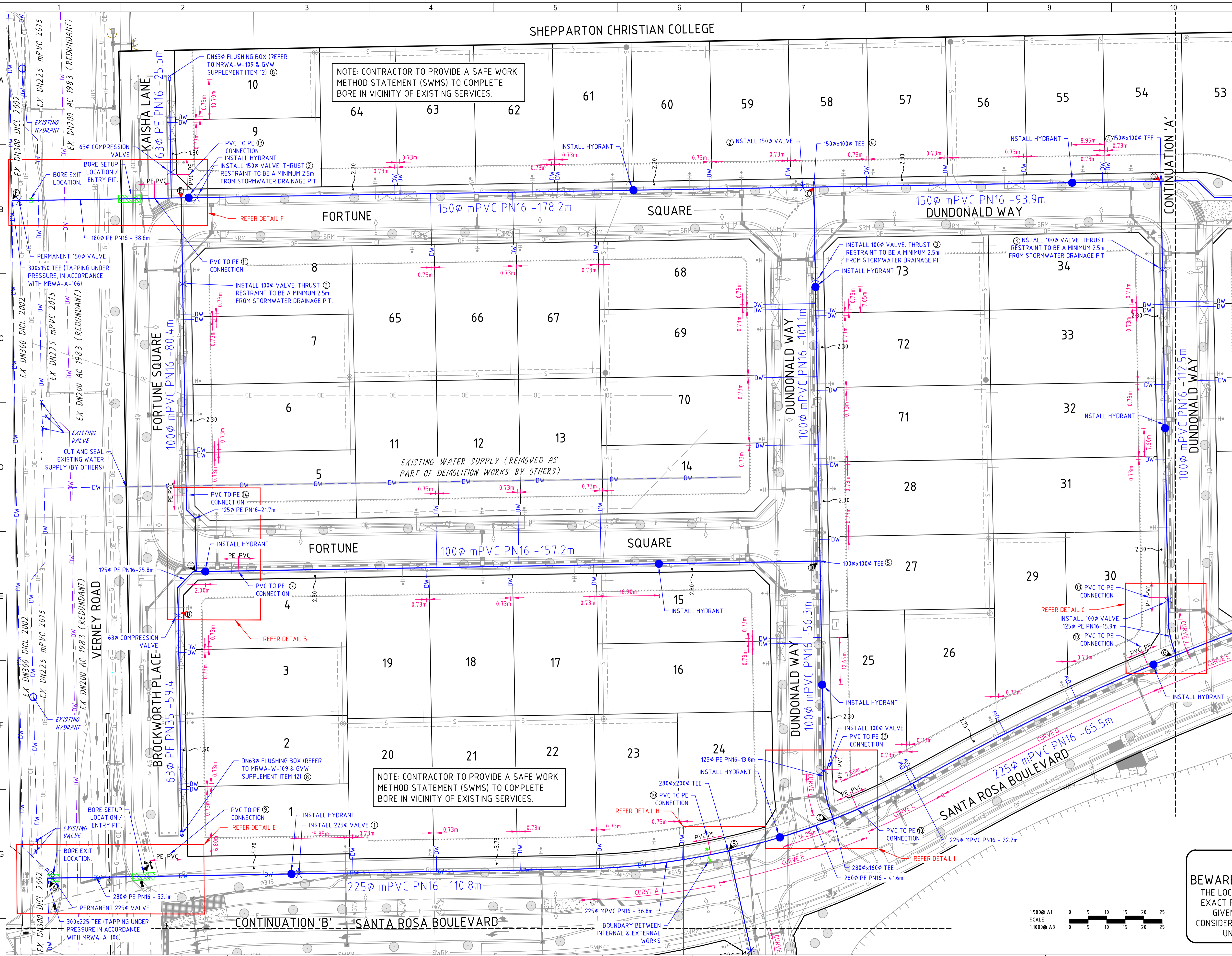
SCALE: AS SHOWN
SHEET: 1 OF 6
SPIIRE DWG No.: 307926CW100
REV 0
CONSTRUCTION

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SHEPPARTON CHRISTIAN COLLEGE



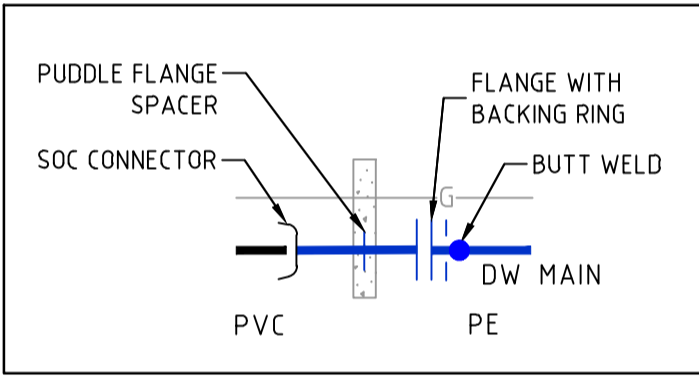
NOTE: CONTRACTOR TO PROVIDE A SAFE WORK METHOD STATEMENT (SWMS) TO COMPLETE BORE IN VICINITY OF EXISTING SERVICES.



NOTE: ALL PROPERTY SERVICE ALIGNMENTS TO BE AT 0.73m OFFSET FROM BOUNDARY TO SUIT DEVELOPMENT COVENANT AND CONSTRUCTION OF WATER METERS AND DRIVEWAYS. BY ENDORSING THESE PLANS GWV PROVIDE DISPENSATION FOR THIS NON-STANDARD OFFSET.

PLEASE NOTE: DEPTH OF COVER TO TOP OF WATERMAIN TO BE INCREASED BEYOND THE MINIMUM COVER MENTIONED ABOVE WHERE REQUIRED TO ALLOW FOR OTHER UTILITY CROSSINGS, INCLUDING ALLOWANCE FOR THE INSTALLATION OF THE TYPICAL GOULBURN VALLEY WATER DRY TAPPING AND PROPERTY CONNECTION (DRY TAPPING INSTALLATION AS PER GWV SUPPLEMENT GWV-W-100 FIGURE A).

NOTE: CONTRACTOR TO ALLOW PE PIPE TO COOL TO GROUND TEMPERATURE (25°C) BEFORE WELDING AND POURING CONCRETE ANCHORAGE



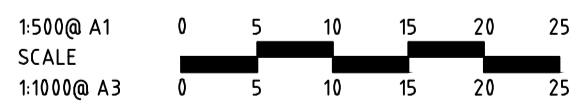
PVC TO PE CONNECTIONS NOT TO SCALE

ORIGINAL SIGNED BY GOULBURN VALLEY WATER 06/07/2022



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file name: 307926CW200.dwg, layout name: CW200, plotted by: Alexander Anderson, file location: G:\307926\CW200\307926\CW200.dwg, plot date: 15/07/2022, 4:33 PM, Sheet 2 of 6, Sheets

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E	ISSUED FOR TENDER	22/04/22	A.D.R.
D	ISSUED FOR APPROVAL	22/04/22	A.D.R.
C	AMENDED & RE-ISSUED FOR APPROVAL	03/03/22	A.D.R.
B	ISSUED FOR TENDER	30/11/21	A.D.R.
A	ISSUED FOR ENDORSEMENT	22/11/21	A.D.R.

LEGEND

	VALVE		WATER AUTHORITY HYDRANT, BELOW GROUND.
	TAPER		SOC WASHOUT BEND WITH HYDRANT
	REMOVE FITTING		SWAB REMOVAL POINT
	FOR ADDITIONAL SYMBOLS NOT INCLUDED HERE REFER TO MRWA-W-100		SWAB INSERTION POINT
			WATER QUALITY SAMPLING POINT (DUAL WATER)

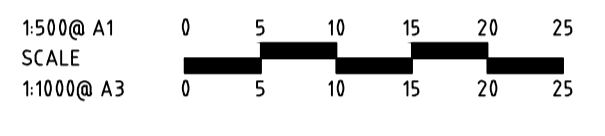
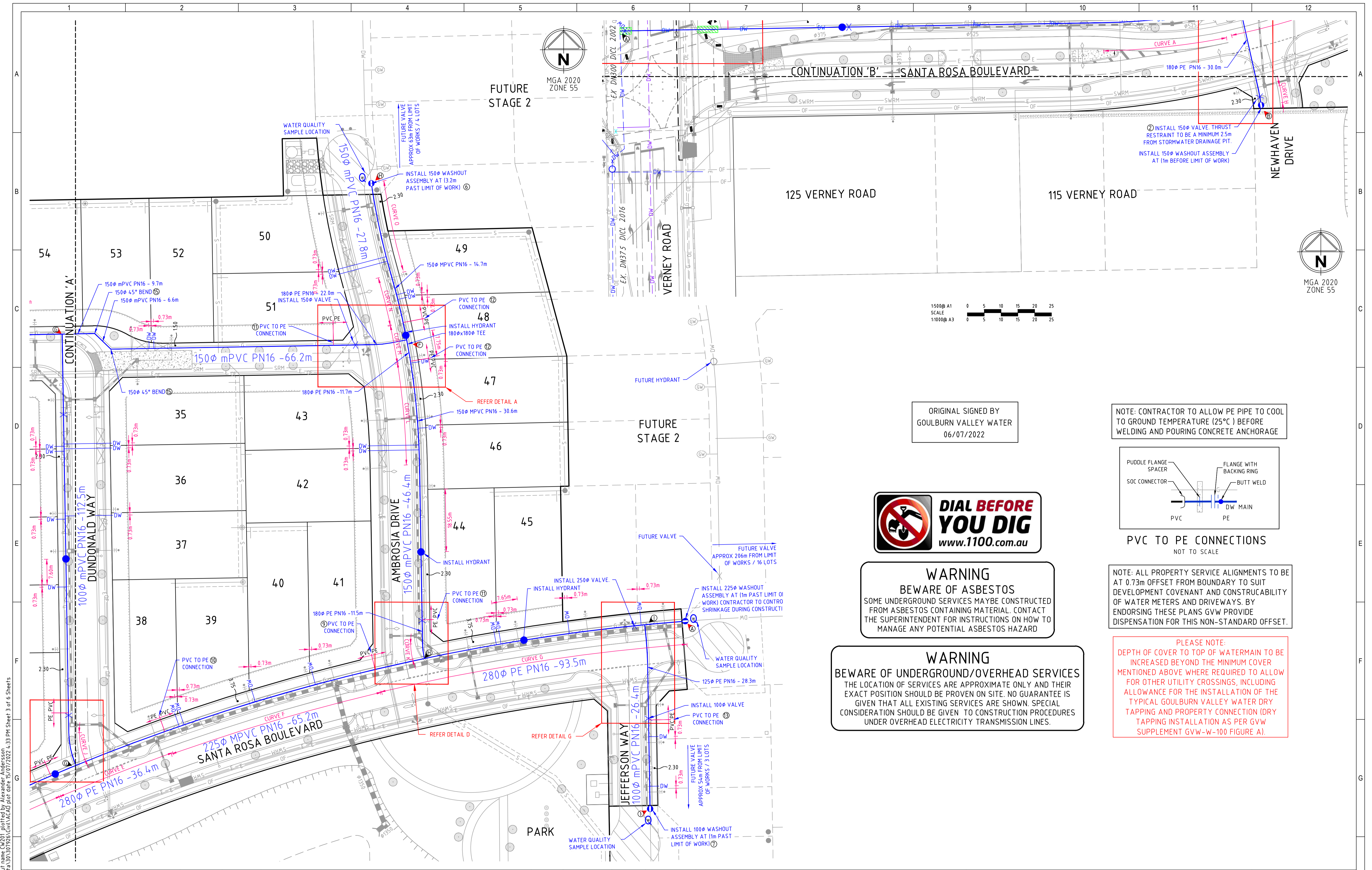
DESIGNED	M. ISMAIL	AUTHORITY PROJECT No.	300644
DRAWN	M. ISMAIL	MELWAY REFERENCE	673 R4 (ED.7)
CHECKED	J. KOEHLER	AUTHORISED	A. DURSTON-RYAN
		DATE:	OCT 2021

THE NORTH QUARTER SHEPPARTON PTY LTD



GOULBURN VALLEY WATER
CITY OF GREATER SHEPPARTON
THE NORTH QUARTER ESTATE, STAGE 1
WATER RETICULATION
DESIGN PLAN (1 OF 2)

SCALE: 1:500 @ A1	REV
SHEET: 2 OF 6	
SPiIRE DWG No.: 307926CW200	0
CONSTRUCTION	



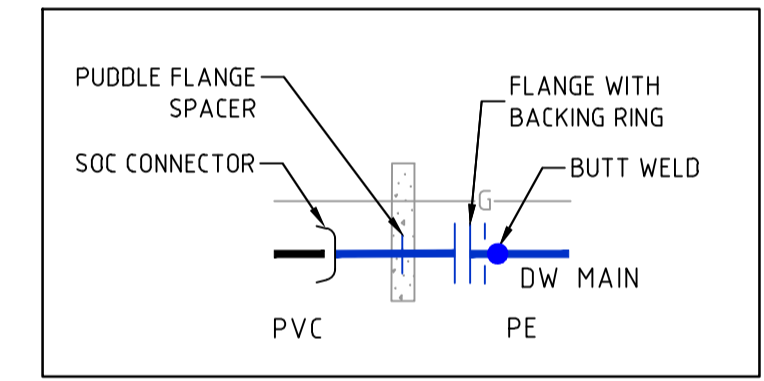
ORIGINAL SIGNED BY
GOULBURN VALLEY WATER
06/07/2022



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NOTE: CONTRACTOR TO ALLOW PE PIPE TO COOL TO GROUND TEMPERATURE (25°C) BEFORE WELDING AND POURING CONCRETE ANCHORAGE



PVC TO PE CONNECTIONS
NOT TO SCALE

NOTE: ALL PROPERTY SERVICE ALIGNMENTS TO BE AT 0.73m OFFSET FROM BOUNDARY TO SUIT DEVELOPMENT COVENANT AND CONSTRUCTABILITY OF WATER METERS AND DRIVEWAYS. BY ENDORSING THESE PLANS GWV PROVIDE DISPENSATION FOR THIS NON-STANDARD OFFSET.

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file name: 307926CW201.dwg, layout name: CW201, plotted by: Aleksandra Anderson, plot date: 15/07/2022, 4:33 PM, Sheet 3 of 6 Sheets

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E	ISSUED FOR TENDER	22/04/22	A.D.R.
D	ISSUED FOR APPROVAL	22/04/22	A.D.R.
C	AMENDED & RE-ISSUED FOR APPROVAL	03/03/22	A.D.R.
B	ISSUED FOR TENDER	30/11/21	A.D.R.
A	ISSUED FOR ENDORSEMENT	22/11/21	A.D.R.

LEGEND	
	VALVE
	WATER AUTHORITY HYDRANT, BELOW GROUND.
	TAPER
	SOC WASHOUT BEND WITH HYDRANT
	REMOVE FITTING
	FOR ADDITIONAL SYMBOLS NOT INCLUDED HERE REFER TO MRWA-W-100
	SWAB INSERTION POINT
	SWAB REMOVAL POINT
	WATER QUALITY SAMPLING POINT (DUAL WATER)

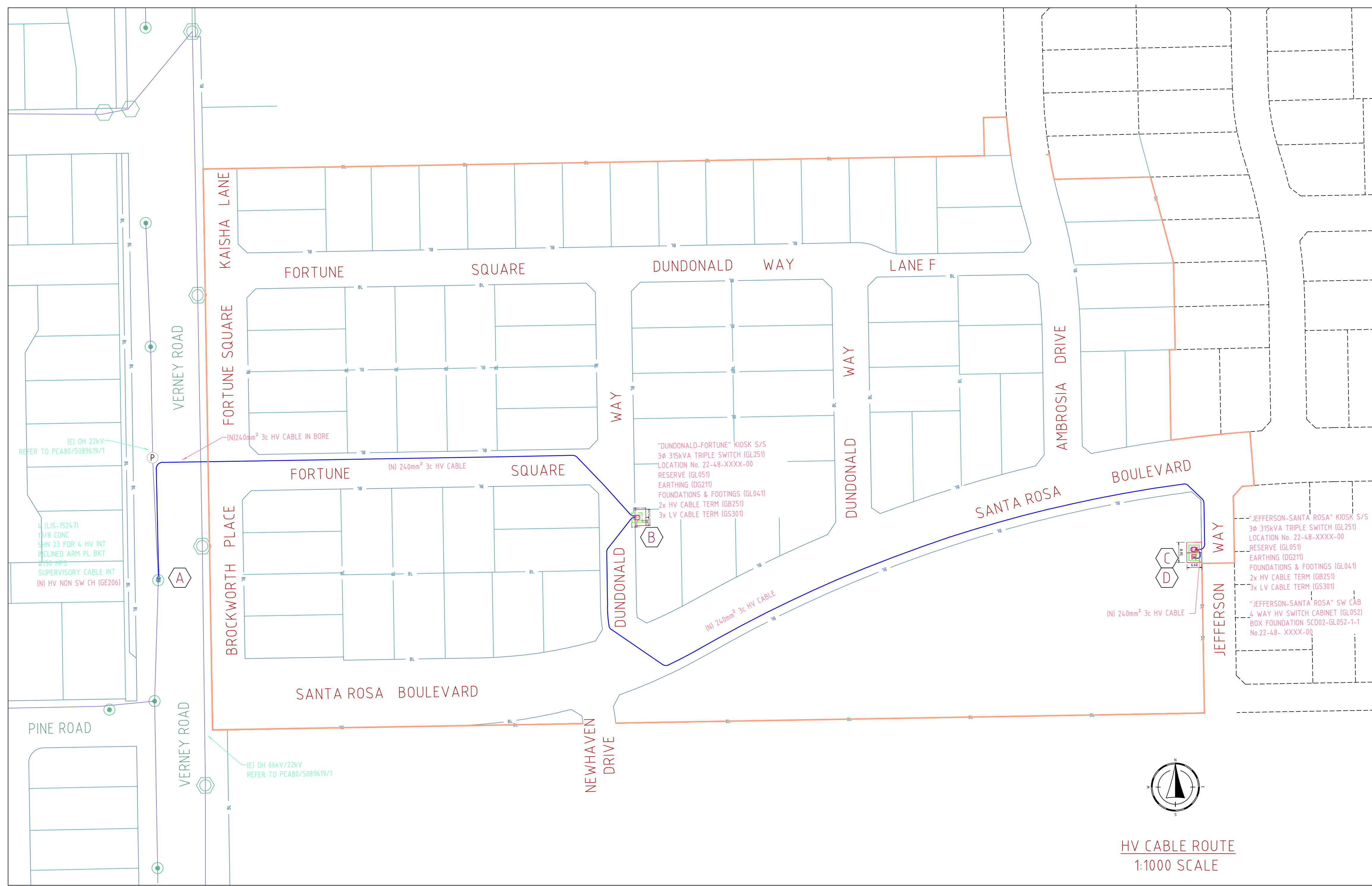
DESIGNED	M. ISMAIL	AUTHORITY PROJECT No.	300644
DRAWN	M. ISMAIL	MELWAY REFERENCE	673 R4 (ED.7)
CHECKED	J. KOEHLER	AUTHORISED	A. DURSTON-RYAN
		DATE:	OCT 2021

THE NORTH QUARTER SHEPPARTON PTY LTD

spiire
144 Welford Street Shepparton
Victoria 3632 Australia T 61 3 5849 1000
spiire.com.au ABN 55 050 029 635

GOULBURN VALLEY WATER
CITY OF GREATER SHEPPARTON
THE NORTH QUARTER ESTATE, STAGE 1
WATER RETICULATION
DESIGN PLAN (2 OF 2)

SCALE: 1:500 @ A1	SHEET: 3 OF 6
SPiIRE DWG No.: 307926CW201	REV 0
CONSTRUCTION	

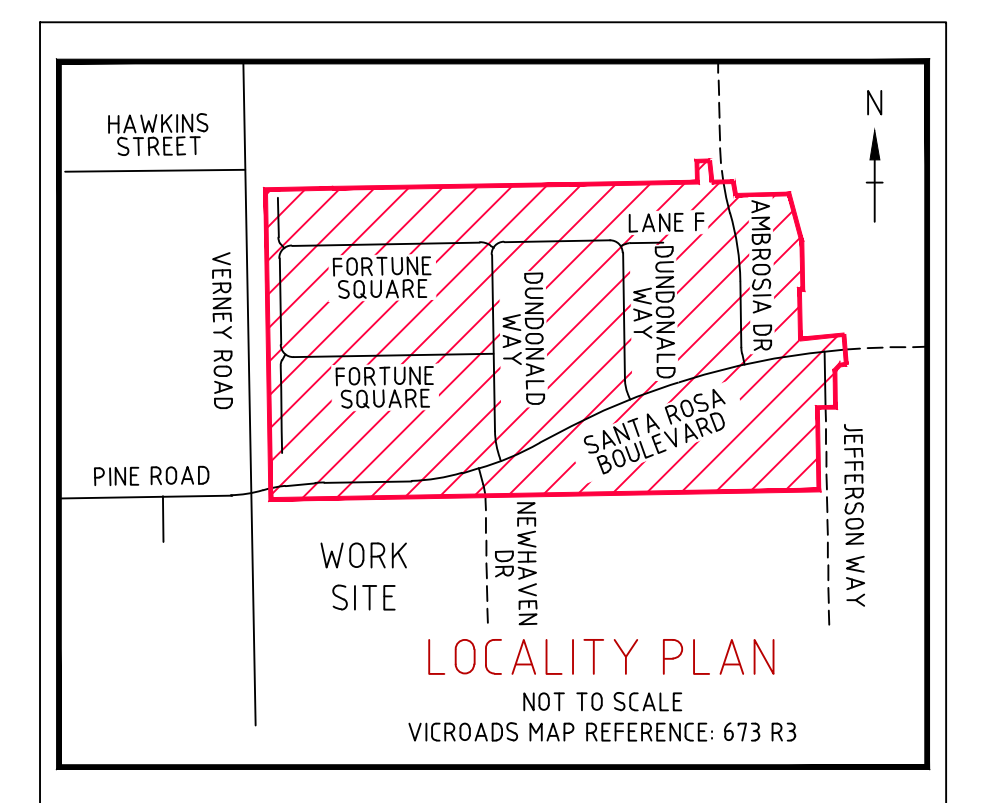


HV CABLE ROUTE
1:1000 SCALE

BENDING RADIUS TABLE (GC021)

MINIMUM BENDING RADIUS DURING INSTALLATION (mm)			
	95mm	185mm	240mm
HV CABLE 3/C	1570	1900	2040
LV CABLE 4/C	-	550	620

MINIMUM BENDING RADIUS AFTER INSTALLATION (mm)			
	95mm	185mm	240mm
HV CABLE 3/C	942	1136	1224
LV CABLE 4/C	-	550	620



NOTE 1
NO GO ZONES TO BE OBSERVED. NO OPTION 2 CONTRACTORS TO BREACH NO GO ZONES UNDER ANY CIRCUMSTANCES. POWERCOR TO PERFORM LIVE WORKS.

NOTE 2
ANY CONDUITS THAT NEED TO BE INSTALLED DEEPER THAN 15m MUST BE APPROVED BY POWERCOR PRIOR TO INSTALLATION.

NOTE 3
TRENCH SHOULD NOT BE SAND AND SLABBED BEFORE ELECTRICAL ASSETS DETAILS HAVE BEEN COLLECTED.

NOTE 4
PROJECT MANAGER MUST BE NOTIFIED OF ANY CHANGE TO DESIGN DURING CONSTRUCTION. CHANGES MUST BE DETAILED.

CONSTRUCTION NOTES:
MINIMUM BENDING RADIUS FOR CONDUITS:
 Ø150 CONDUIT = 2500mm
 Ø100 CONDUIT = 625mm (900mm PREFERRED)
 Ø63 CONDUIT = 325mm
 Ø32 CONDUIT = 315mm
 HV AND LV CABLES TO BE PULLED FROM EITHER END.
 LV U/G MAINS CABLE OFFSET AS PER SERVICES SCHEDULE P/L COLUMN CENTER OFFSET 0.9m FROM BACK OF KERB UNLESS OTHERWISE STATED.

LV TIE IN WORKS
WORKS TO BE COMPLETED BY POWERCOR
 - CHECK OPEN P/P OPP LOT 52 IN LANE F
 - CHECK CLOSED P/P OPP LOT 42 IN AMBROSIA DRIVE
 - CHECK OPEN P/P OPP LOT 38 IN SANTA ROSA BOULEVARD
 - TEST AND COMMISSION CABLES, PITS AND PL

HV TIE IN WORKS
WORKS TO BE TIED IN BY POWERCOR
 - (N) HV NON SWITCHED CH (IG206) ON POLE 4 (LIS-15247) VERNEY ROAD

CONNECTION DIAGRAMS
 - (N) "DUNDONALD-FORTUNE" KIOSK S/S CONNECTION DIAGRAM CAN BE FOUND ON SHEET 3
 - (N) "JEFFERSON-SANTA ROSA" KIOSK S/S CONNECTION DIAGRAM CAN BE FOUND ON SHEET 3
 - (N) "JEFFERSON-SANTA ROSA" SW CAB CONNECTION DIAGRAM CAN BE FOUND ON SHEET 3

CROSS SECTION DIAGRAMS
 - CROSS SECTION 'A-A', 'B-B', 'C-C' DIAGRAMS CAN BE FOUND ON SHEET 1
 - CROSS SECTION 'D-D', 'E-E' DIAGRAMS CAN BE FOUND ON SHEET 3

PUBLIC LIGHTING SCHEDULE			
FOR PL POLE No.s	PL1 - PL11	PL12 - PL34	PL35 - PL36
LANTERN:	STANDARD	STANDARD	STANDARD
WATTAGE & TYPE	33W LED AERO	14/17W LED SCO	70W LED AERO
MANUFACTURER	SYLVANIA	SYLVANIA	SYLVANIA
MODEL & CAT. No.	JLB99A15L33	JLB99A25L17	PM99A15L70 - ROADLED
MOUNTING HEIGHT	7.50	5.50	10.00
CLOUR	STANDARD	STANDARD	STANDARD
POLE:	STANDARD	STANDARD	STANDARD
MANUFACTURER	VICPOLE	VICPOLE	IGAL EPS
MODEL & CAT. NO.	VPM/1KN	VPTM/1KN	VRIA3-86
LENGTH & STRENGTH	9.0m/1KN	6.5m/1KN	8.5m
CLOUR	GALVANISED	GALVANISED	GALVANISED
BRACKET:	STANDARD	STANDARD	STANDARD
MANUFACTURER	VICPOLE	VICPOLE	IGAL EPS
TYPE	PART OF POLE	PART OF POLE	DOUBLE OUTREACH
LENGTH	1.5m	0.9m	3.0m
CLOUR	GALVANISED	GALVANISED	GALVANISED
COUNCIL	CITY OF GREATER SHEPPARTON	CITY OF GREATER SHEPPARTON	CITY OF GREATER SHEPPARTON

LIGHTING IS DESIGNED TO MEET CAT PR3 AND PR5 TO AS/NZS 1158.3.1:2020

EN TECHNICAL STANDARDS
 FOR TRENCHING, CABLE SEPARATION, MIN. DEPTHS REFER TO GA211
 FOR PIT INSTALLATION REFER TO GS201
 FOR ROAD CROSSING CONDUITS REFER TO GA080

- MINIMUM 2.0m BENDING RADIUS ON ALL Ø125 CONDUIT
 - CONDUIT WITHIN PROPERTY BOUNDARY TO BE SUPPLIED AND INSTALLED BY DEVELOPER
 - WARNING: IF TRENCHING ADJACENT TO STRUCTURES (i.e. POLES, ROAD SIGNS, ETC) IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THEY ARE SUFFICIENTLY PROPPED/SECURED TO PREVENT MOVEMENT AND DAMAGE

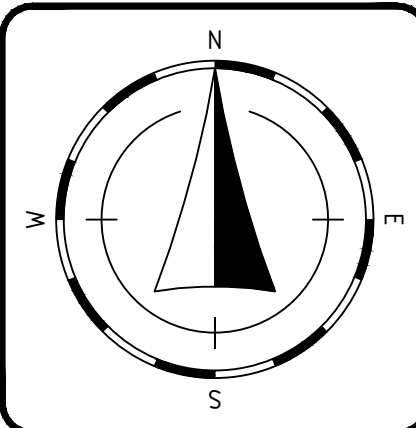
LEGEND		EXISTING U/G CABLES		NEW U/G CABLES		GENERAL		OTHER SERVICES	
— HV 11kV, 22, 11 & 6.6 kV	— PUBLIC LIGHTING	— LV STRAIGHT JOINT	— CONDUIT	— LV STRAIGHT JOINT	— SUBTRANS POLE	— ROAD RESERVE BL	— (S6696)	— POLE NUMBER	— (S6696)
— LV MANS	— EARTH	— LV TEE JOINT	— SERVICE PIT (TYPICAL)	— LV TEE JOINT	— HV POLE	— BOUNDARY LINE	— 609	— PROPERTY NUMBER	— (S6696)
— LV SERVICE	— HV STRAIGHT JOINT	— LV SERV TEE JOINT	— SERVICE PIT (ROADWAY)	— LV SERV TEE JOINT	— LV POLE (GENERAL)	— BACK OF KERB	— Lot 23	— LOT NUMBER	— (S6696)
— SUPERVISORY	— HV TEE JOINT	— LV INSULATED END	— PILLAR (SERVICEL)	— LV INSULATED END	— SUBSTATION (POLE)	— FACE OF KERB	— Lot 23	— CONDUIT - OCCUPIED	— (S6696)
— OPTIC FIBRE	— HV SEALED END	— LV SEALED END	— PILLAR (PARALLELING)	— LV SEALED END	— HV CABLE HEAD POLE	— LIP OF KERB	— Lot 23	— CONDUIT - SPARE	— (S6696)
	— HV CUT END	— LV CUT END	— PL & COLUMN	— LV CUT END	— LV CABLE HEAD POLE	— STORM WATER PIT	— Lot 23		

MUNICIPAL COUNCIL DEVELOPER NO. OF LOTS: CITY OF GREATER SHEPPARTON THE NORTH QUARTER SHEPPARTON PTY LTD 73

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PROJECT NUMBER	5133368
ROAD DIRECTORY	VICROADS 673 R3
MAP PROJECTION	MGA 94, ZONE 55
FEEDER / SWITCHING ZONE	SHN023 / SW2-4823000
O/H REFERENCE DRAWING	PCAB07/5089619/1
U/G REFERENCE DRAWING	PCA40/
SUB REFERENCE DRAWING	PCA110/
PROJECT MANAGER	DAMIAN LEA

SCALE: 1:1000
LENGTHS ARE IN METRES



REVISION				
DRAWING NUMBER	PCA40	5133368	1	SHEET 1 OF 3
SANTA ROSA BOULEVARD SHEPPARTON UG CONSTRUCTION PLAN - URD THE NORTH QUARTER STAGE 1 DETAIL DESIGN				
DRAWN	DESIGNER	CHECKER	APPROVER	
SPHIRE (DW)	SPHIRE (DH)	????? (??)	????? (??)	
17/12/2021	17/12/2021	??/??/20??	??/??/20??	

CABLE SCHEDULE						ESTIMATED CABLE PULLING TENSION			
CABLE ID	VOLTAGE	CABLE LOCATION	CABLE DETAILS	CABLE LENGTH	D.C.C.C	FORWARD	DIRECTION	REVERSE	MAX
HV1	22kV CABLE	FROM (N) HV CH/A ON (A) POLE 4 LIS 15247 TO "DUNDONALD-FORTUNE" K/S 'B'	240 3/c 22ax.h.ch	290m	-	8.0kN	TO	6.6kN	23.0kN
HV2	22kV CABLE	FROM (N) "DUNDONALD-FORTUNE" K/S 'B' TO (N) "JEFFERSON-SANTA ROSA" K/S 'C'	240 3/c 22ax.h.ch	380m	-	11.9kN	TO	11.8kN	23.0kN
HV3	22kV CABLE	FROM (N) "JEFFERSON-SANTA ROSA" K/S 'C' TO (N) "JEFFERSON - SANTA ROSA" SW CAB 'D'	240 3/c 22ax.h.ch	15m	-	-1.0kN	TO	-1.0kN	23.0kN
LV1	LV MAINS CABLE	FROM (N) "DUNDONALD-FORTUNE" K/S 'B' TO (N) "JEFFERSON-SANTA ROSA" K/S 'C'	240 4/c lv.s.a.x.	125m	-	2.1kN	TO	1.6kN	28.8kN
LV2	LV MAINS CABLE	FROM (N) "DUNDONALD-FORTUNE" K/S 'B' TO (N) "JEFFERSON-SANTA ROSA" K/S 'C'	240 4/c lv.s.a.x.	310m	-	3.5kN	TO	4.9kN	28.8kN
LV3	LV MAINS CABLE	FROM (N) "DUNDONALD-FORTUNE" K/S 'B' TO (N) "JEFFERSON-SANTA ROSA" K/S 'C'	240 4/c lv.s.a.x.	95m	-	1.3kN	TO	1.3kN	28.8kN
LV4	LV MAINS CABLE	FROM (N) "DUNDONALD-FORTUNE" K/S 'B' TO (N) "JEFFERSON-SANTA ROSA" K/S 'C'	240 4/c lv.s.a.x.	250m	-	2.1kN	TO	2.1kN	28.8kN
LV5	LV MAINS CABLE	FROM (N) "DUNDONALD-FORTUNE" K/S 'B' TO (N) "JEFFERSON-SANTA ROSA" K/S 'C'	240 4/c lv.s.a.x.	70m	-	-1.0kN	TO	-1.0kN	28.8kN
LV6	LV MAINS CABLE	FROM (N) "DUNDONALD-FORTUNE" K/S 'B' TO (N) "JEFFERSON-SANTA ROSA" K/S 'C'	240 4/c lv.s.a.x.	75m	-	-1.0kN	TO	-1.0kN	28.8kN
LV7	LV MAINS CABLE	FROM (N) "DUNDONALD-FORTUNE" K/S 'B' TO (N) "JEFFERSON-SANTA ROSA" K/S 'C'	240 4/c lv.s.a.x.	235m	-	2.4kN	TO	2.4kN	28.8kN
LV8	LV MAINS CABLE	FROM (N) "DUNDONALD-FORTUNE" K/S 'B' TO (N) "JEFFERSON-SANTA ROSA" K/S 'C'	240 4/c lv.s.a.x.	21m	-	-1.0kN	TO	-1.0kN	28.8kN
LV9	LV MAINS CABLE	FROM (N) "DUNDONALD-FORTUNE" K/S 'B' TO (N) "JEFFERSON-SANTA ROSA" K/S 'C'	240 4/c lv.s.a.x.	60m	-	-1.0kN	TO	-1.0kN	28.8kN
LV10	LV MAINS CABLE	FROM (N) "DUNDONALD-FORTUNE" K/S 'B' TO (N) "JEFFERSON-SANTA ROSA" K/S 'C'	240 4/c lv.s.a.x.	60m	-	-1.0kN	TO	-1.0kN	28.8kN
LV11	LV MAINS CABLE	FROM (N) "DUNDONALD-FORTUNE" K/S 'B' TO (N) "JEFFERSON-SANTA ROSA" K/S 'C'	240 4/c lv.s.a.x.	185m	-	1.4kN	TO	1.4kN	28.8kN
LV12	LV MAINS CABLE	FROM (N) "DUNDONALD-FORTUNE" K/S 'B' TO (N) "JEFFERSON-SANTA ROSA" K/S 'C'	240 4/c lv.s.a.x.	90m	-	1.4kN	TO	1.4kN	28.8kN
LV13	LV MAINS CABLE	FROM (N) "DUNDONALD-FORTUNE" K/S 'B' TO (N) "JEFFERSON-SANTA ROSA" K/S 'C'	240 4/c lv.s.a.x.	85m	-	1.4kN	TO	1.4kN	28.8kN
LV14	LV MAINS CABLE	FROM (N) "DUNDONALD-FORTUNE" K/S 'B' TO (N) "JEFFERSON-SANTA ROSA" K/S 'C'	240 4/c lv.s.a.x.	110m	-	1.4kN	TO	1.4kN	28.8kN
LVS1	SERVICE CABLE		16 4/c lv.c.x.	985m	-	-	-	-	-
PLS1	P/L CABLE		16 2/c lv.c.x.	80m	-	-	-	-	-
PLS2	P/L CABLE		6 2/c lv.c.x.	785m	-	-	-	-	-

D.C.C.C = DERATED CURRENT CARRYING CAPACITY

STREET NAME	GAS		WATER		STORMWATER RISING MAIN		SEWER RISING MAIN		TELSTRA/COMMS		ELECTRICITY		P/L OFFSET	
	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE
SANTA ROSA BOULEVARD (OPP LOT 1 TO LOT 24)	3.25	NORTH	3.75	NORTH	4.3	SOUTH	-	-	1.75	SOUTH	3.30	SOUTH	8.5	SOUTH
SANTA ROSA BOULEVARD (OPP LOT 25 TO LOT 45)	3.25	NORTH	3.75	NORTH	4.3	SOUTH	-	-	1.75	SOUTH	3.30	SOUTH	5.15	SOUTH
BROCKWORTH PLACE	1.00	WEST	1.50	WEST	-	-	-	-	3.30	EAST	3.80	WEST	0.9x	WEST
FORTUNE SQUARE (OS LOT 5 TO LOT 14)	1.80	SOUTH	2.30	SOUTH	-	-	-	-	1.85	NORTH	2.50	NORTH	3.15	NORTH
FORTUNE SQUARE (OPP LOT 5 TO LOT 8)	1.80	EAST	2.30	EAST	-	-	-	-	1.85	WEST	3.80	WEST	0.9x	WEST
FORTUNE SQUARE (OS LOT 8 TO LOT 68)	1.80	NORTH	2.30	NORTH	-	-	2.55	SOUTH	0.80	SOUTH	1.85	SOUTH	3.15	SOUTH
DUNDONALD WAY (OS LOT 24 TO LOT 68)	1.80	EAST	2.30	EAST	-	-	-	-	1.85	WEST	2.35	WEST	3.15	WEST
DUNDONALD WAY (OS LOT 73 & 34)	1.80	NORTH	2.30	NORTH	-	-	2.55	SOUTH	0.80	SOUTH	1.85	SOUTH	3.15	SOUTH
DUNDONALD WAY (OS LOT 35 TO LOT 38)	1.80	WEST	2.30	WEST	-	-	-	-	1.85	EAST	2.35	EAST	3.15	EAST
KAISHA LANE	1.00	EAST	1.50	EAST	-	-	-	-	3.30	WEST	3.80	WEST	0.9x	WEST
LANE F	1.00	NORTH	1.50	NORTH	-	-	2.00	NORTH	1.00	SOUTH	1.50	SOUTH	VAR	N/S
NEWHAVEN DRIVE	1.80	EAST	2.30	EAST	-	-	-	-	1.85	WEST	0.85	EAST	-	-
AMBROSIA DRIVE	1.80	EAST	2.30	EAST	-	-	4.35	WEST	2.85	WEST	3.50	WEST	4.15	WEST
JEFFERSON WAY	1.80	EAST	2.30	EAST	-	-	-	-	0.35	WEST	1.00	WEST	1.80	WEST

PUBLIC LIGHTING SCHEDULE			
FOR PL POLE No.s	PL1 - PL11	PL12 - PL34	PL35 - PL36
LANTERN	STANDARD	STANDARD	STANDARD
WATTAGE & TYPE	33W LED AERO	14/17W LED SCD	70W LED AERO
MANUFACTURER	SYLVANIA	SYLVANIA	SYLVANIA
MODEL & CAT. No.	JLB99A15L33	JLB99A05L17	PM99A15L70 - ROADLED
MOUNTING HEIGHT	7.50	5.50	10.00
COLOUR	STANDARD	STANDARD	STANDARD
POLE	STANDARD	STANDARD	STANDARD
MANUFACTURER	VICPOLE	VICPOLE	IGAL EPS
MODEL & CAT. No.	VP9M/KN	VP7M/KN	VR1A3-86
LENGTH & STRENGTH	9.0m/KN	6.9m/KN	8.5m
COLOUR	GALVANISED	GALVANISED	GALVANISED
BRACKET	STANDARD	STANDARD	STANDARD
MANUFACTURER	VICPOLE	VICPOLE	IGAL EPS
TYPE	PART OF POLE	PART OF POLE	DOUBLE OUTREACH
LENGTH	15m	0.9m	3.0m
COLOUR	GALVANISED	GALVANISED	GALVANISED
COUNCIL	CITY OF GREATER SHEPPARTON	CITY OF GREATER SHEPPARTON	CITY OF GREATER SHEPPARTON

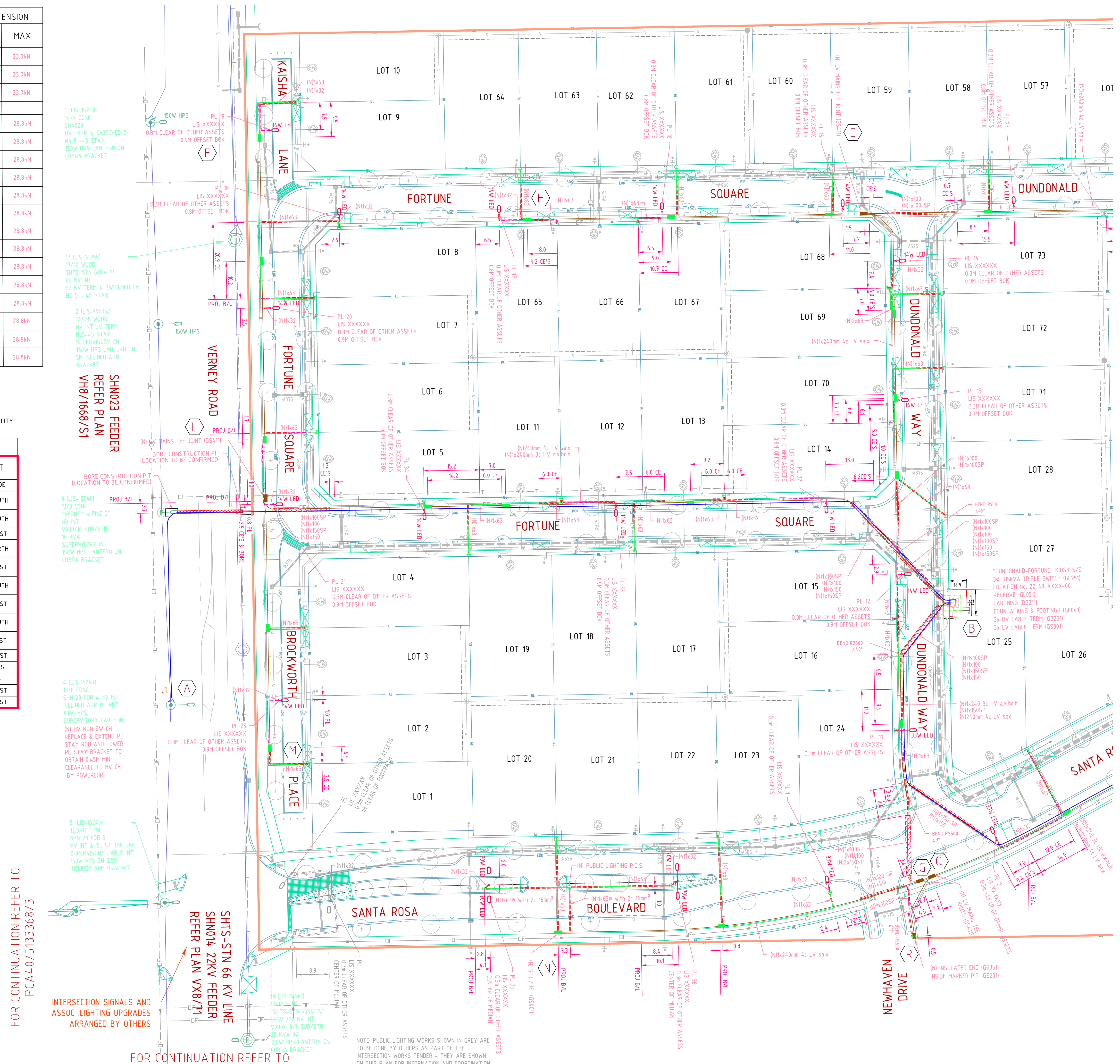
LIGHTING IS DESIGNED TO MEET CAT PR3 AND PR5 TO AS/NZS 1158.3:2020



EN TECHNICAL STANDARDS
FOR TRENCHING, CABLE SEPARATION, MIN. DEPTHS REFER TO GA211
FOR PIT INSTALLATION REFER TO GS201
FOR ROAD CROSSING CONDUITS REFER TO GA080

- MINIMUM 2.0m BENDING RADIUS ON ALL Ø125 CONDUIT
- CONDUIT WITHIN PROPERTY BOUNDARY TO BE SUPPLIED AND INSTALLED BY DEVELOPER
- WARNING: IF TRENCHING ADJACENT TO STRUCTURES (i.e. POLES, ROAD SIGNS, ETC) IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THEY ARE SUFFICIENTLY PROPPED/SECURED TO PREVENT MOVEMENT AND DAMAGE

LEGEND		EXISTING UG CABLES		NEW UG CABLES		PUBLIC LIGHTING		GENERAL		OTHER SERVICES																														
— HV 11kV, 22, 11 & 6.6 kV	— LV MAINS	— LV SERVICE	— SUPERVISORY	— OPTIC FIBRE	— LV STRAIGHT JOINT	— LV TEE JOINT	— LV SERV TEE JOINT	— LV INSULATED END	— LV SEALED END	— LV CUT END	— CONDUIT	— SERVICE PIT (TYPICAL)	— SERVICE PIT (ROADWAY)	— PILLAR (SERVICING)	— PILLAR (PARALLELING)	— PILLAR & COLUMN	— CABLE PULLING DIRECTION	— SUBTRANS POLE	— HV POLE	— LV POLE (GENERAL)	— SUBSTATION (POLE)	— HV CABLE HEAD POLE	— LV CABLE HEAD POLE	— ROAD RESERVE BL	— BOUNDARY LINE	— BACK OF KERB	— FACE OF KERB	— LIP OF KERB	— STORM WATER PIT	— POLE NUMBER	— PROPERTY NUMBER	— LOT NUMBER	— CONDUIT - OCCUPIED	— CONDUIT - SPARE	— DRAWN	— FENCE	— GAS MAIN	— SEWER	— TELCO	— WATER MAIN



FOR CONTINUATION REFER TO PCA40/5133368/3

FOR CONTINUATION REFER TO PCA40/5133368/3

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

PROJECT NUMBER	5133368
ROAD DIRECTORY	VIC ROADS 673 R3
MAP PROJECTION	MGA 94 ZONE 55
FEEDER / SWITCHING ZONE	SHN023 / SWZ 4823000
O/H REFERENCE DRAWING	PCA807
U/G REFERENCE DRAWING	PCA407
SUB REFERENCE DRAWING	PCA110/
PROJECT MANAGER	DAMIAN LEA

SCALE: 1:500
LENGTHS ARE IN METRES

CITIPower
Electricity Networks
Locked Bag 14090
Melbourne 8001
www.citipower.com.au
www.powercor.com.au

REVISION	2	SHEET 2 OF 3
DRAWING NUMBER	PCA40 5133368	
SANTA ROSA BOULEVARD SHEPPARTON UG CONSTRUCTION PLAN - URD THE NORTH QUARTER STAGE 1 DETAIL DESIGN		
DRAWN	SPHIRE (DW)	16/12/2021
DESIGNER	SPHIRE (DH)	16/12/2021
CHECKER	????? (??)	??/??/20??
APPROVER	????? (??)	??/??/20??

FOR CONTINUATION REFER TO PCA40/5133368/3

FOR CONTINUATION REFER TO PCA40/5133368/3

