

Original sheet size A3 (420x297) Plot Date 2024-05-30 at 8:00:04 am C:\Users\NZGD30418\OneDrive\WSP ANZ projects\AMER\NZ-WSL EM\Project Files\W-SL001\01-WSP\Civil\P3_Leq\Sheets\Detailed Design\2014250.000.dwg COVER PAGE



WATERCARE SERVICES LTD
QUEEN STREET WASTEWATER DIVERSION
PART 3 MAIN WORKS AND CROSS CONNECTIONS
ISSUE FOR TENDER

Project No: W-SL001.03
Date: 2024-05-30

FOR TENDER
NOT FOR CONSTRUCTION

ISSUE	DATE	AMENDMENT	BY	APPD.	DESIGNED	G. DIAO	05-24
A	05-24	ISSUE FOR TENDER - P3 SHAFT AND P3-P4 UPDATES	N.C.	G.D.	DES. APPROVED	B. RUDSITS	05-24
-	04-24	ISSUE FOR TENDER	N.C.	G.D.	DRAWN	N. CAJEME	05-24
2	02-24	DETAILED DESIGN BASED ON WSL/FH COMMENTS	N.C.	G.D.	DWG. APPROVED	B. RUDSITS	05-24
1	12-23	DETAILED DESIGN	N.C.	G.D.	WSL DESIGN MGMT.	H. HOSFORD	05-24

**Watercare**

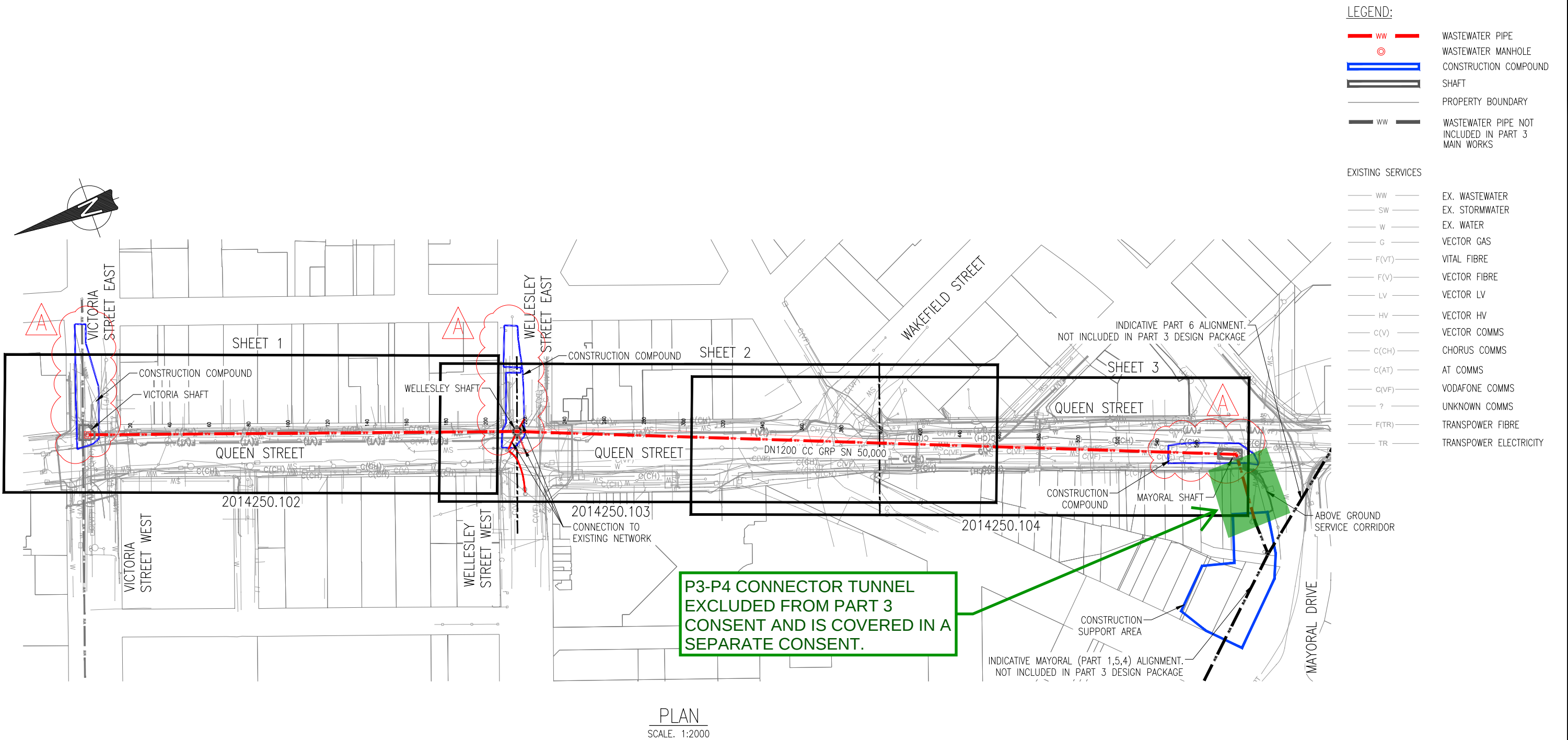
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QUEEN STREET WASTEWATER DIVERSION
PART 3 MAIN WORKS AND CROSS CONNECTIONS
COVER PAGE

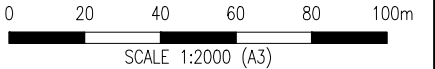


CAD FILE	2014250.000	DATE	30-05-2024
ORIGINAL SCALE	A3	CONTRACT No.	-
REF No.	W-SL001.03		
DWG No.	2014250.000	ISSUE	A

Original sheet size A3 (420x297) Plot Date 2024-05-30 at 7:39:29 am C:\Users\NZG030418\OneDrive\Projects\AMER\NZ-WSL-EM\Project Files\W-SL001.01-WP\CIV\3-Lea\Sheets\021853.007-012.dwg 101



FOR TENDER
NOT FOR CONSTRUCTION



ISSUE	DATE	AMENDMENT	BY	APPD.
A	05-24	ISSUE FOR TENDER - P3 SHAFTS AND P3-P4 UPDATES	S.H.	G.D.
-	04-24	ISSUE FOR TENDER	S.H.	G.D.
2	02-24	DETAILED DESIGN BASED ON WSL/FH COMMENTS	S.H.	G.D.
1	11-23	DETAILED DESIGN	S.H.	F.F.

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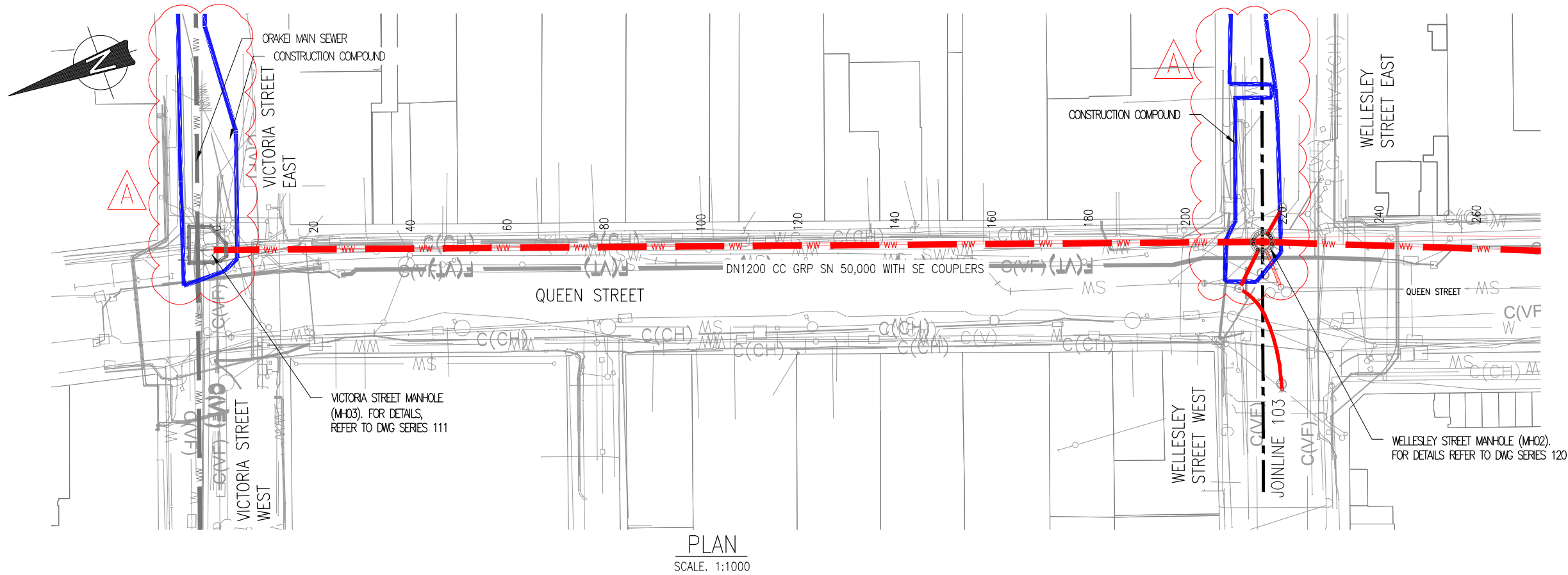


QUEEN STREET WASTEWATER DIVERSION
PART 3 MAIN WORKS AND CROSS CONNECTIONS
ALIGNMENT OVERVIEW

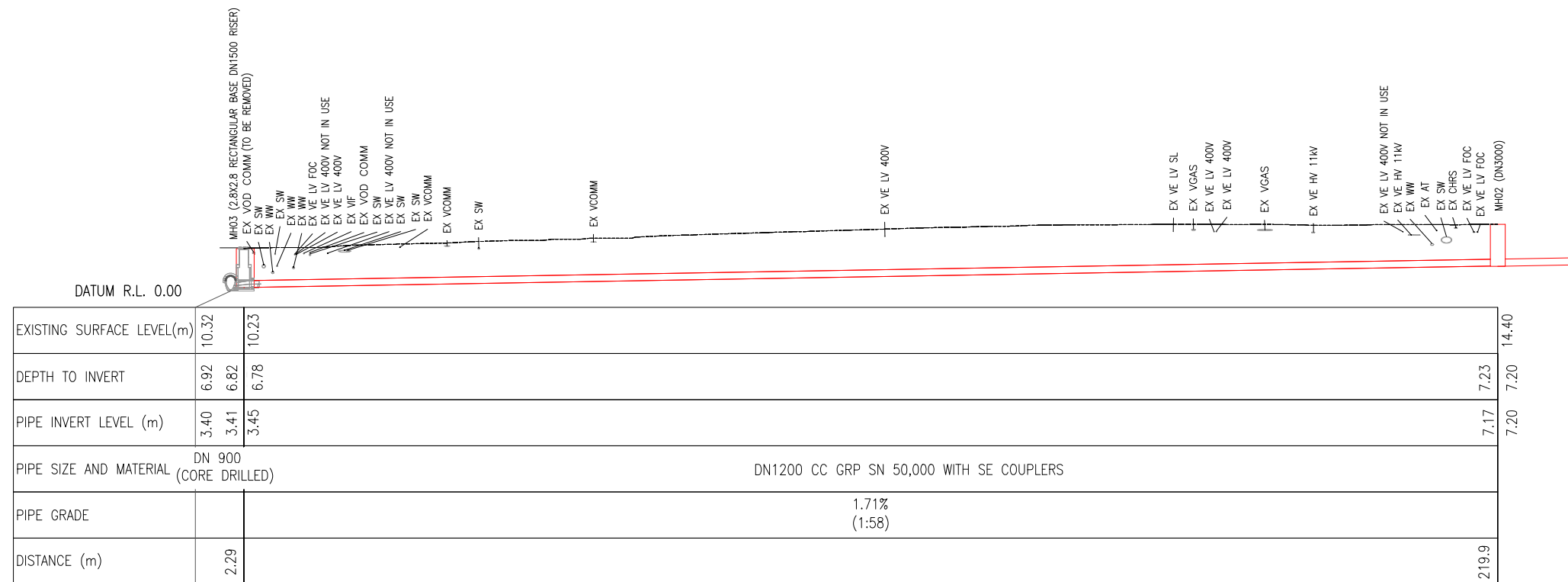
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CAD FILE	W-SL001.03	DATE	30-05-2024
ORIGINAL SCALE	A3 1:2000	CONTRACT No.	-
REF No.	W-SL001.03	ISSUE	A
DWG No.	2014250.101		

Original sheet size A3 (420x297) Plot Date 2024-05-30 at 7:43:43 am C:\Users\NZG030418\OneDrive\Projects\WSP\ANZ Projects\AMER\NZ-WSL-EM\Project Files\W-SL001\01-WP\CIV\P3_Loc\Sheets\0021853.007-012.dwg 102



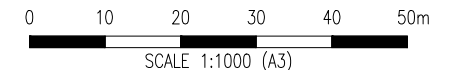
- LEGEND:**
- WW WASTEWATER PIPE
 - WASTEWATER MANHOLE
 - CONSTRUCTION COMPOUND
 - SHAFT
 - PROPERTY BOUNDARY
- EXISTING SERVICES**
- EX. WASTEWATER
 - EX. STORMWATER
 - EX. WATER
 - VECTOR GAS
 - VITAL FIBRE
 - VECTOR FIBRE
 - VECTOR LV
 - VECTOR HV
 - VECTOR COMMS
 - CHORUS COMMS
 - AT COMMS
 - VODAFONE COMMS
 - UNKNOWN COMMS
 - TRANSPOWER FIBRE
 - TRANSPOWER ELECTRICITY



LONGITUDINAL PROFILE- 0.0 m TO 219.9 m
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:1000



FOR TENDER
NOT FOR CONSTRUCTION



ISSUE	DATE	AMENDMENT	BY	APPD.
A	05-24	ISSUE FOR TENDER - P3 SHAFTS AND P3-P4 UPDATES	S.H.	G.D.
-	04-24	ISSUE FOR TENDER	S.H.	G.D.
2	02-24	DETAILED DESIGN BASED ON WSL/FH COMMENTS	S.H.	G.D.
1	11-23	DETAILED DESIGN	S.H.	F.F.

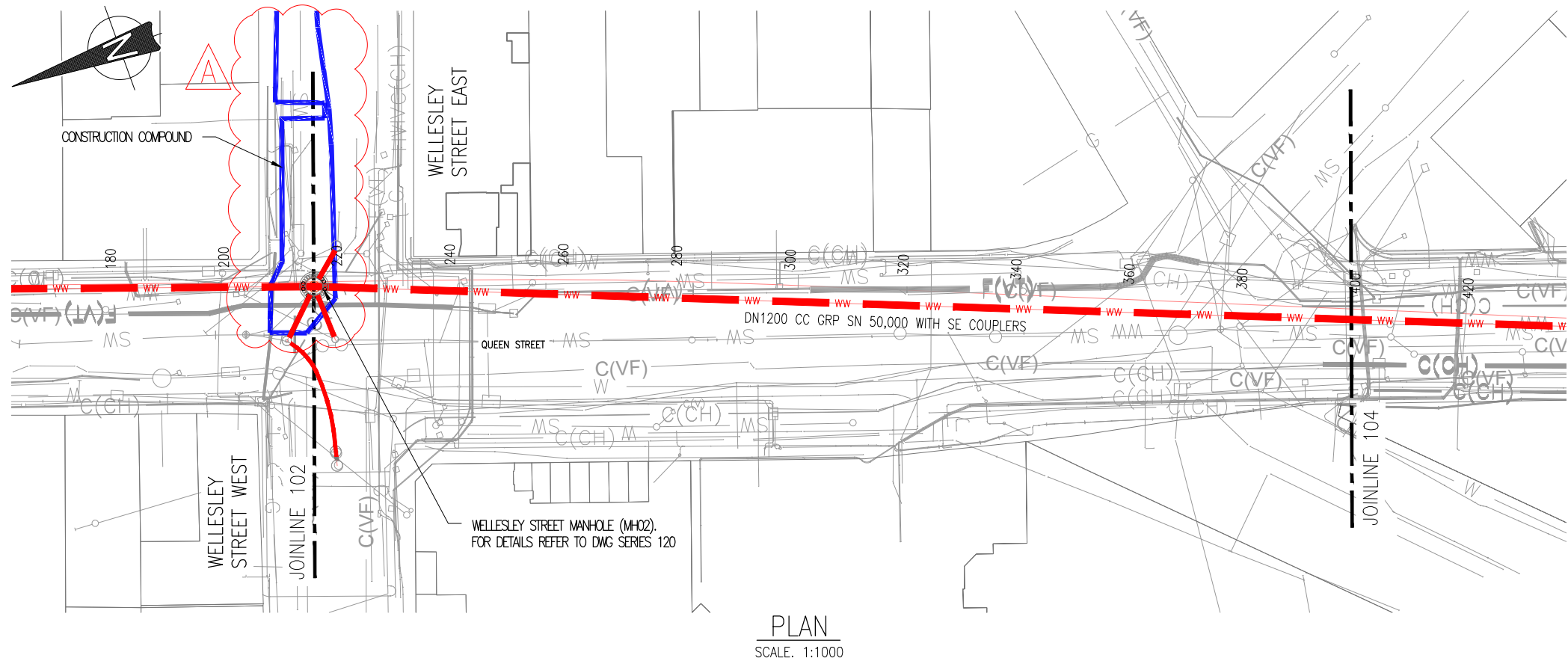
DESIGNED	G. DIAO	05-24
DES. APPROVED	B. RUDSITS	05-24
DRAWN	S. HASSAN	05-24
DWG. APPROVED	B. RUDSITS	05-24
WSL DESIGN MGMT.	H. HOSFORD	05-24
WSL PROJ. LEAD	-	-
BY	BY	DATE



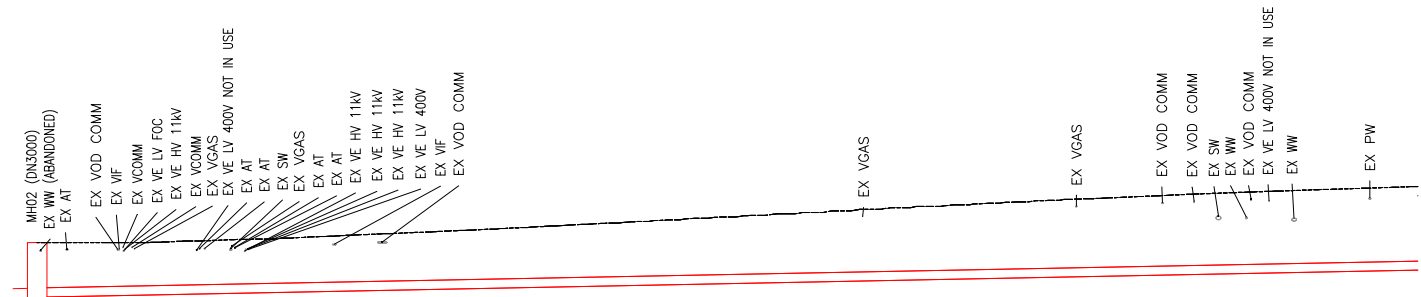
QUEEN STREET WASTEWATER DIVERSION
PART 3 MAIN WORKS AND CROSS CONNECTIONS
PLAN AND LONG SECTION - SHEET 1 OF 3

CAD FILE	W-SL001.03	DATE	30-05-2024
ORIGINAL SCALE	A3 AS SHOWN	CONTRACT No.	-
REF No.	W-SL001.03	ISSUE	A
DWG No.	2014250 .102		

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- LEGEND:
- WW WASTEWATER PIPE
 - WASTEWATER MANHOLE
 - CONSTRUCTION COMPOUND
 - SHAFT
 - PROPERTY BOUNDARY
- EXISTING SERVICES
- EX. WASTEWATER
 - EX. STORMWATER
 - EX. WATER
 - VECTOR GAS
 - VITAL FIBRE
 - VECTOR FIBRE
 - VECTOR LV
 - VECTOR HV
 - VECTOR COMMS
 - CHORUS COMMS
 - AT COMMS
 - VODAFONE COMMS
 - UNKNOWN COMMS
 - TRANSPOWER FIBRE
 - TRANSPOWER ELECTRICITY



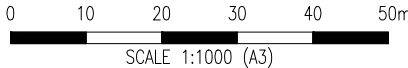
DATUM R.L. 0.00			
EXISTING SURFACE LEVEL(m)		14.40	21.83
DEPTH TO INVERT	7.23	7.20	11.06
PIPE INVERT LEVEL (m)	7.17	7.20	10.76
PIPE SIZE AND MATERIAL	DN1200 CC GRP SN 50,000 WITH SE COUPLERS		
PIPE GRADE	1.95% (1:51)		
DISTANCE (m)	219.9		402.5

LONGITUDINAL PROFILE- 219.9 m TO 402.5 m

HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:1000



FOR TENDER
NOT FOR CONSTRUCTION



ISSUE	DATE	AMENDMENT	BY	APPD.	DESIGNED	G. DIAO	05-24
A	05-24	ISSUE FOR TENDER - P3 SHAFTS AND P3-P4 UPDATES	S.H.	G.D.	DES. APPROVED	B. RUDSITS	05-24
-	04-24	ISSUE FOR TENDER	S.H.	G.D.	DRAWN	S. HASSAN	05-24
2	02-24	DETAILED DESIGN BASED ON WSL/FH COMMENTS	S.H.	G.D.	DWG. APPROVED	B. RUDSITS	05-24
1	12-23	DETAILED DESIGN	S.H.	F.F.	WSL DESIGN MGMT.	H. HOSFORD	05-24
					WSL PROJ. LEAD	-	-

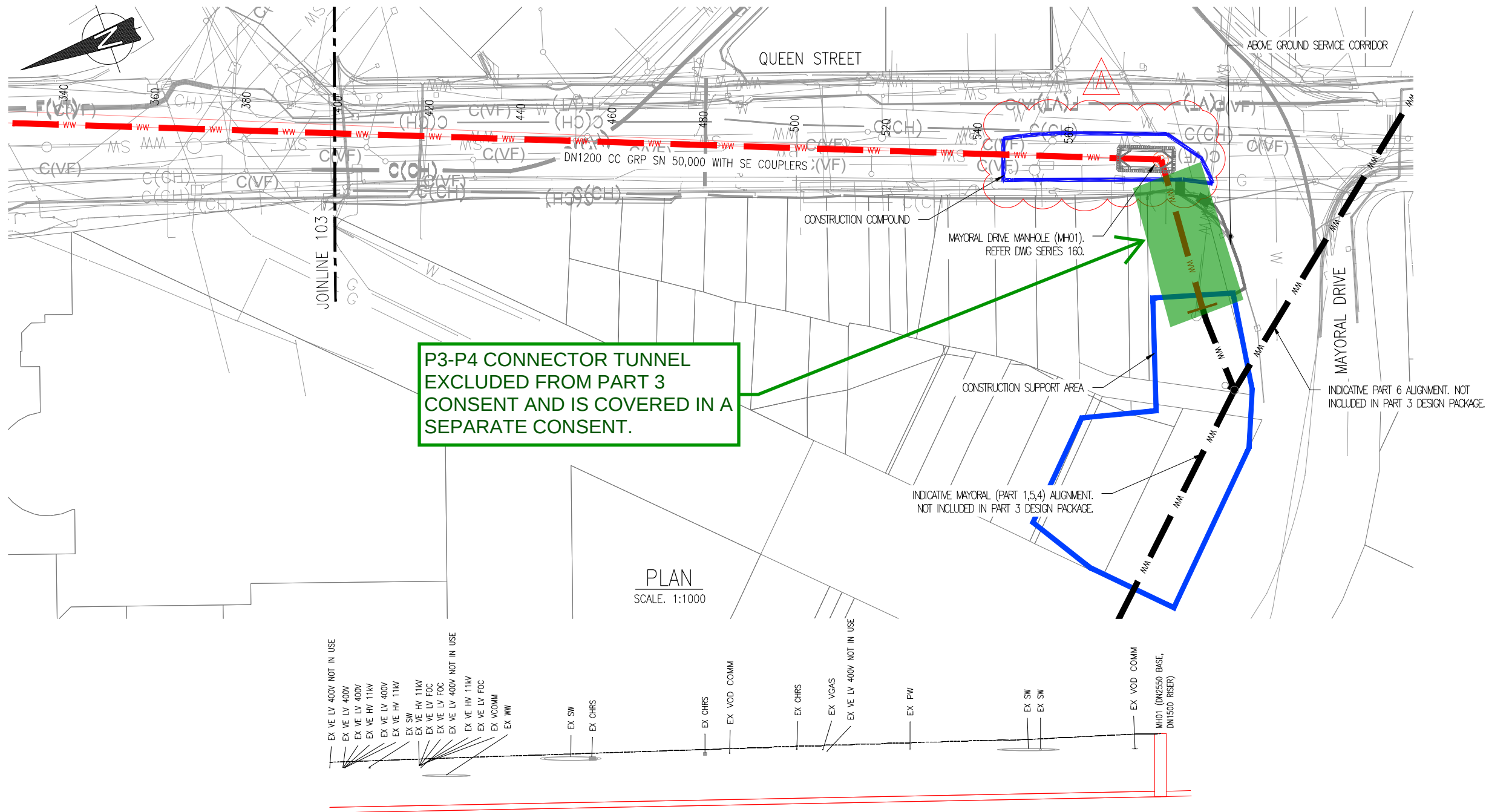
Watercare

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QUEEN STREET WASTEWATER DIVERSION
PART 3 MAIN WORKS AND CROSS CONNECTIONS
PLAN AND LONG SECTION - SHEET 2 OF 3

CAD FILE	W-SL001.03	DATE	30-05-2024
ORIGINAL SCALE	A3 AS SHOWN	CONTRACT No.	-
REF No.	W-SL001.03	ISSUE	A
DWG No.	2014250 .103		

Original sheet size A3 (420x297) Plot Date 2024-05-30 at 7:48:45 am C:\Users\NZGD30418\Documents\WSP ANZ projects (AMER)\NZ-WSL-EM\Project Files\W-SL001\01_WPL\CV\P3_Lea\Sheets\0021853.007-012.dwg 104



- LEGEND:
- WW WASTEWATER PIPE
 - WASTEWATER MANHOLE
 - CONSTRUCTION COMPOUND
 - SHAFT
 - PROPERTY BOUNDARY
 - WW WASTEWATER PIPE NOT INCLUDED IN PART 3 MAIN WORKS
- EXISTING SERVICES
- WW EX. WASTEWATER
 - SW EX. STORMWATER
 - W EX. WATER
 - G VECTOR GAS
 - F(VT) VITAL FIBRE
 - F(V) VECTOR FIBRE
 - LV VECTOR LV
 - HV VECTOR HV
 - C(V) VECTOR COMMS
 - C(CH) CHORUS COMMS
 - C(AT) AT COMMS
 - C(VF) VODAFONE COMMS
 - ? UNKNOWN COMMS
 - F(TR) TRANSPOWER FIBRE
 - TR TRANSPOWER ELECTRICITY

P3-P4 CONNECTOR TUNNEL
EXCLUDED FROM PART 3
CONSENT AND IS COVERED IN A
SEPARATE CONSENT.

PLAN
SCALE: 1:1000

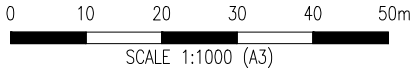
DATUM R.L. 0.00	
EXISTING SURFACE LEVEL(m)	21.83
DEPTH TO INVERT	11.06
PIPE INVERT LEVEL (m)	10.76
PIPE SIZE AND MATERIAL	DN1200 CC GRP SN 50,000 WITH SE COUPLERS
PIPE GRADE	1.95% (1:51)
DISTANCE (m)	402.5

LONGITUDINAL PROFILE- 402.5 m TO 584.1 m

HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:1000



FOR TENDER
NOT FOR CONSTRUCTION



ISSUE	DATE	AMENDMENT	BY	APPD.
A	05-24	ISSUE FOR TENDER - P3 SHAFTS AND P3-P4 UPDATES	S.H.	G.D.
-	04-24	ISSUE FOR TENDER	S.H.	G.D.
2	02-24	DETAILED DESIGN BASED ON WSL/FH COMMENTS	S.H.	G.D.
1	12-23	DETAILED DESIGN	S.H.	F.F.

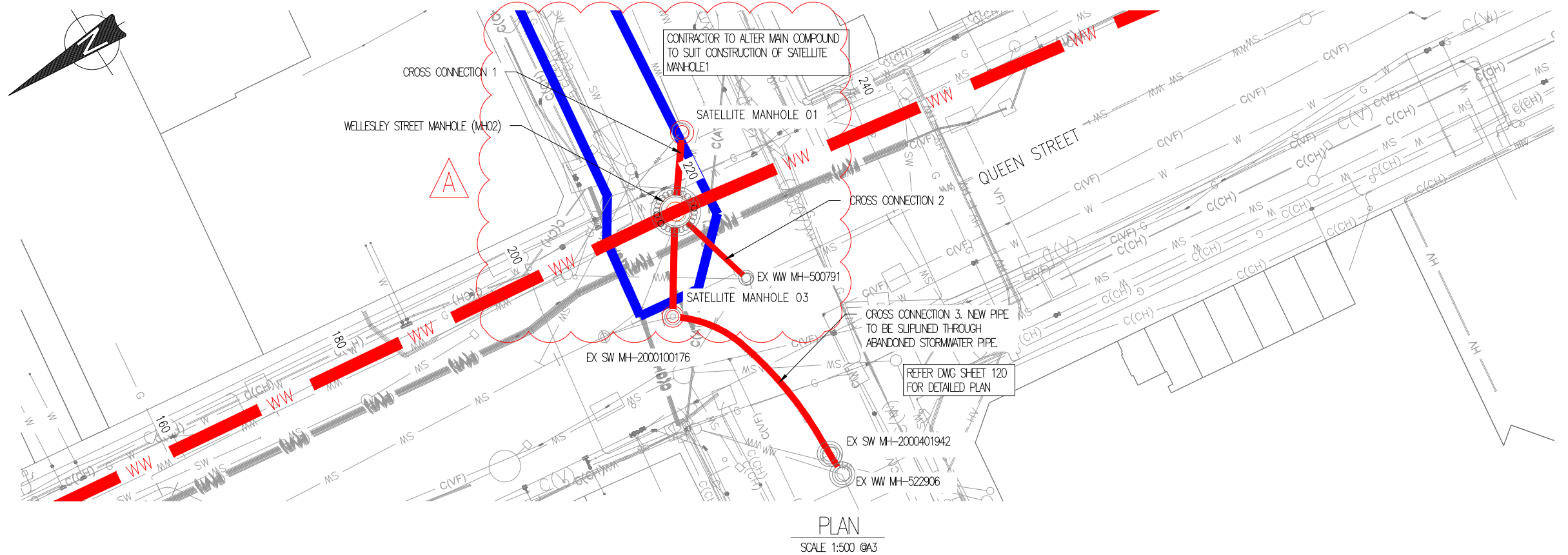


Watercare

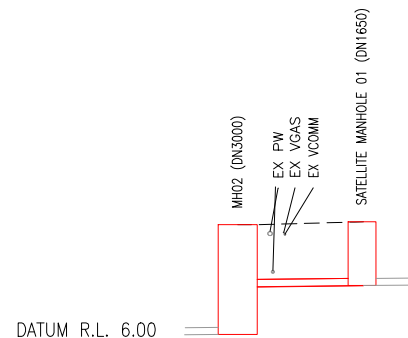
QUEEN STREET WASTEWATER DIVERSION
PART 3 MAIN WORKS AND CROSS CONNECTIONS
PLAN AND LONG SECTION - SHEET 3 OF 3

CAD FILE	W-SL001.03	DATE	30-05-2024
ORIGINAL SCALE	A3 AS SHOWN	CONTRACT No.	-
REF No.	W-SL001.03		
DWG No.	2014250 .104	ISSUE	A

Original sheet size A3 (420x297) Plot Date 2024-05-29 at 2:08:37 PM C:\Users\NSH04652\ACCDocs\WSP ANZ projects (AMER)\NZ-WSL EM W-SL001\01_WIP\CIV\3_Lea\Sheets\0021853.007-012.dwg 105



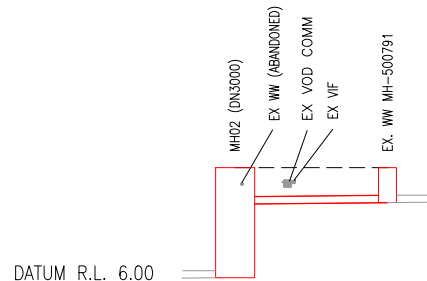
- LEGEND:**
- WW WASTEWATER PIPE
 - WWM WASTEWATER MANHOLE
 - Construction Compound
 - SHAFT
 - PROPERTY BOUNDARY
- EXISTING SERVICES**
- WW EX. WASTEWATER
 - SW EX. STORMWATER
 - W EX. WATER
 - G VECTOR GAS
 - F(VT) VITAL FIBRE
 - F(V) VECTOR FIBRE
 - LV VECTOR LV
 - HV VECTOR HV
 - C(V) VECTOR COMMS
 - C(CH) CHORUS COMMS
 - C(AT) AT COMMS
 - C(VF) VODAFONE COMMS
 - ? UNKNOWN COMMS
 - F(TR) TRANSPOWER FIBRE
 - TR TRANSPOWER ELECTRICITY



EXISTING SURFACE LEVEL(m)	14.40	14.59
DEPTH TO INVERT	7.23 4.13	4.22 3.81
PIPE INVERT LEVEL (m)	7.17 10.28	10.37 10.78
PIPE SIZE AND MATERIAL	DN475 SN16 PVC-U	
PIPE GRADE	1.07% (1:93)	
DISTANCE (m)	8.20	

LONGITUDINAL PROFILE- CROSS CONNECTION 1

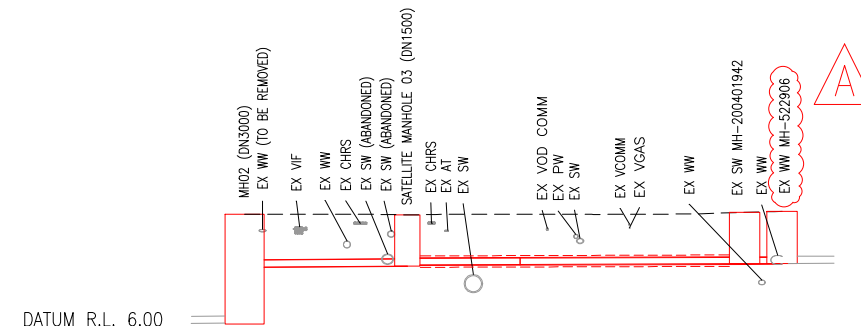
HORIZONTAL SCALE 1:500 @ A3
VERTICAL SCALE 1:500 @ A3



EXISTING SURFACE LEVEL(m)	14.40	14.40
DEPTH TO INVERT	7.23 2.40	2.28 2.19
PIPE INVERT LEVEL (m)	7.17 12.02	12.12 12.21
PIPE SIZE AND MATERIAL	DN475 SN16 PVC-U	
PIPE GRADE	0.99% (1:101)	
DISTANCE (m)	10.06	

LONGITUDINAL PROFILE- CROSS CONNECTION 2

HORIZONTAL SCALE 1:500 @ A3
VERTICAL SCALE 1:500 @ A3



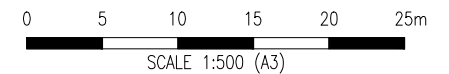
EXISTING SURFACE LEVEL(m)	14.40	14.35	14.59
DEPTH TO INVERT	7.23 3.54	3.38 3.32	3.35 3.35
PIPE INVERT LEVEL (m)	7.17 10.86	10.97 11.03	11.05 11.05
PIPE SIZE AND MATERIAL	DN475 SN16 PVC-U	DN560 SDR11 PE100	
PIPE GRADE	1.01% (1:99)	0.34% (1:294)	
DISTANCE (m)	10.8	18.2	33.1 35.6

LONGITUDINAL PROFILE- CROSS CONNECTION 3

HORIZONTAL SCALE 1:500 @ A3
VERTICAL SCALE 1:500 @ A3



FOR TENDER
NOT FOR CONSTRUCTION



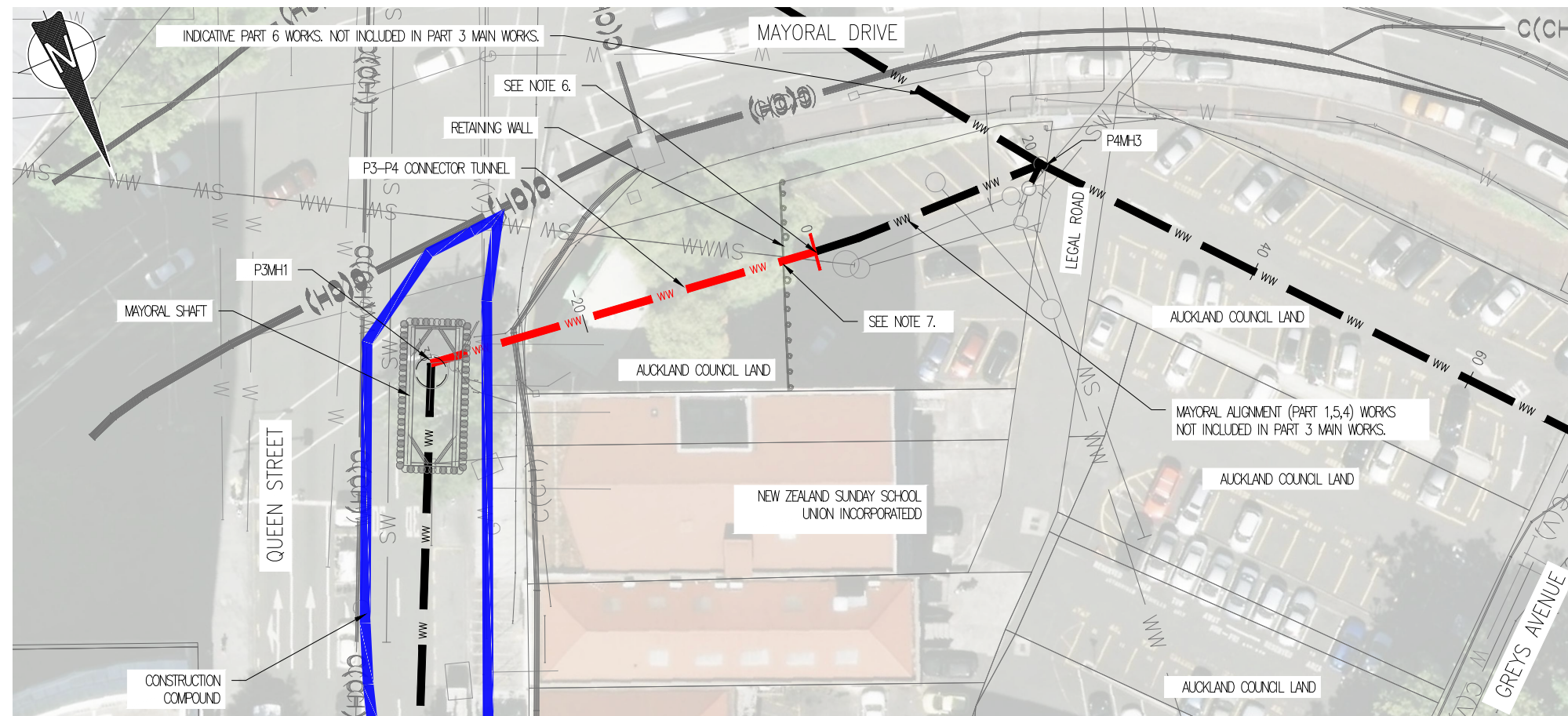
ISSUE	DATE	AMENDMENT	BY	APPD.	DESIGNED	DATE	BY	DATE
A	05-24	ISSUE FOR TENDER - P3 SHAFTS AND P3-P4 UPDATES	S.H.	G.D.	DES. APPROVED	05-24	B. RUDSITS	05-24
-	04-24	ISSUE FOR TENDER	S.H.	G.D.	DRAWN	05-24	S. HASSAN	05-24
2	02-24	DETAILED DESIGN BASED ON WSL/FH COMMENTS	S.H.	G.D.	DWG. APPROVED	05-24	B. RUDSITS	05-24
1	11-23	DETAILED DESIGN	S.H.	F.F.	WSL DESIGN MGMT.	05-24	H. HOSFORD	05-24
					WSL PROJ. LEAD	-	-	-

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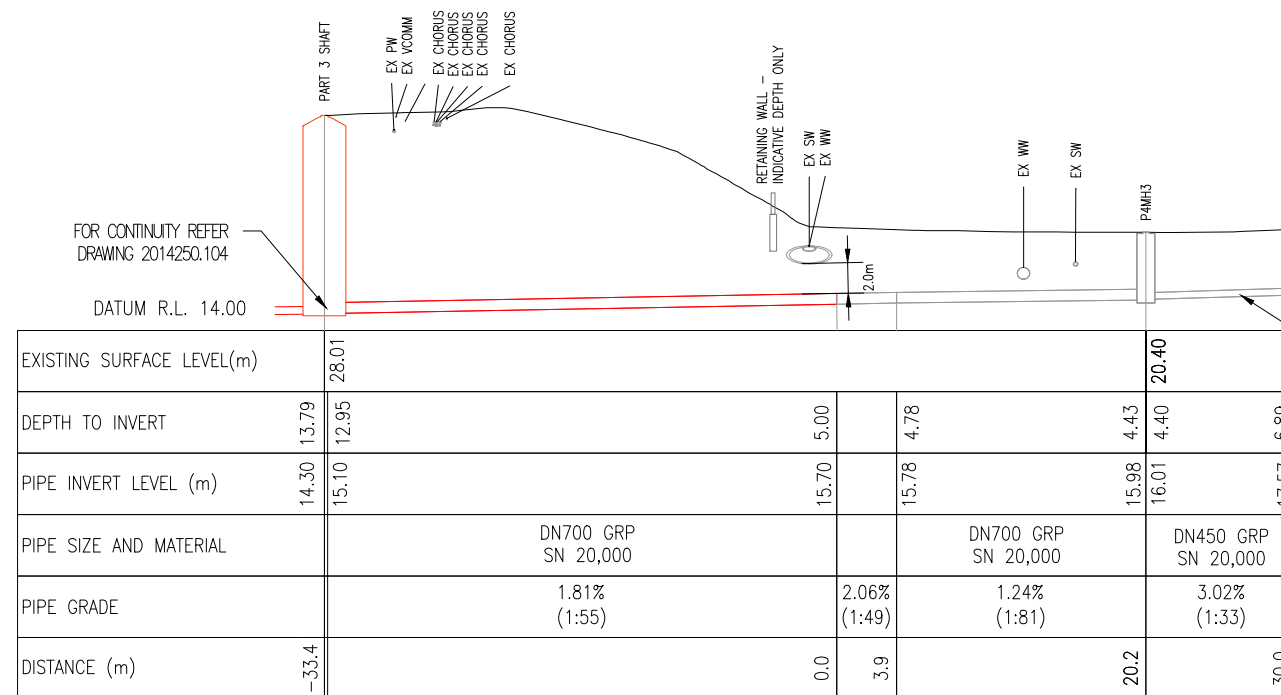
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QUEEN STREET WASTEWATER DIVERSION
PROPOSED PART 3 MAIN WORKS AND CROSS CONNECTIONS
PLAN AND LONG SECTION - CROSS CONNECTIONS

CAD FILE	W-SL001.03	DATE	30-05-2024
ORIGINAL SCALE	A3	CONTRACT No.	-
REF No.	W-SL001.03	ISSUE	A
DWG No.	2014250.105		



PLAN
SCALE: 1:500



LONGITUDINAL PROFILE -33.4 m TO 30.0 m
HORIZONTAL SCALE 1:500 @ A3
VERTICAL SCALE 1:500 @ A3

**P3-P4 CONNECTOR TUNNEL
EXCLUDED FROM PART 3
CONSENT AND IS COVERED IN A
SEPARATE CONSENT.**

LEGEND:

- WW WASTEWATER PIPE
- WWM WASTEWATER MANHOLE
- CC CONSTRUCTION COMPOUND
- S SHAFT
- WW WASTEWATER PIPE NOT INCLUDED IN P3-P4 CONNECTOR TUNNEL

EXISTING SERVICES

- WW EX. WASTEWATER
- SW EX. STORMWATER
- W EX. WATER
- G VECTOR GAS
- F(VT) VITAL FIBRE
- F(V) VECTOR FIBRE
- LV VECTOR LV
- HV VECTOR HV
- C(V) VECTOR COMMS
- C(CH) CHORUS COMMS
- C(AT) AT COMMS
- C(VF) VODAFONE COMMS
- ? UNKNOWN COMMS
- F(TR) TRANSPOWER FIBRE
- TR TRANSPOWER ELECTRICITY

- NOTES:
- REFER TO TECHNICAL SPECIFICATION WSL001-01-SP-WA-0007 FOR TRENCHLESS PIPE INSTALLATION SPECIFICATIONS
 - CONSTRUCTION SUPPORT AREA TO BE LOCATED WITHIN CAR PARK - REFER TO CONSTRUCTION SUPPORT AREA DRAWING.
 - PIPE STIFFNESS CLASS STATED IS FOR PERMANENT LOAD CASES. CONTRACTOR TO CONFIRM PIPE STIFFNESS IS SUITABLE FOR CONSTRUCTION/INSTALLATION LOADS.
 - TEMPORARY WORK DESIGN FOR CONSTRUCTION AND INSTALLATION IS RESPONSIBILITY OF THE CONSTRUCTOR INCLUDING RELEVANT ASSOCIATED PERMITS, APPROVALS AND CONSENT NOT ALREADY PROVIDED BY THE PRINCIPAL.
 - IF CONTRACTOR PROPOSES TO USE ALTERNATIVE PIPE MATERIAL APPROVAL REQUIRED BY WSL AND ENGINEER.
 - UPON COMPLETION OF PART 3 CONSTRUCTION, THIS PIPE END SHALL BE SUITABLY CAPPED UNTIL SUCH TIME CONNECTION OF MAYORAL ALIGNMENT IS REQUIRED.
 - ENGINEER TO PROVIDE RETAINING WALL CONSTRUCTION DRAWING AT TENDERERS REQUEST.



**ISSUE FOR TENDER
NOT FOR CONSTRUCTION**

0 5 10 15 20 25
SCALE 1:500 (A3)

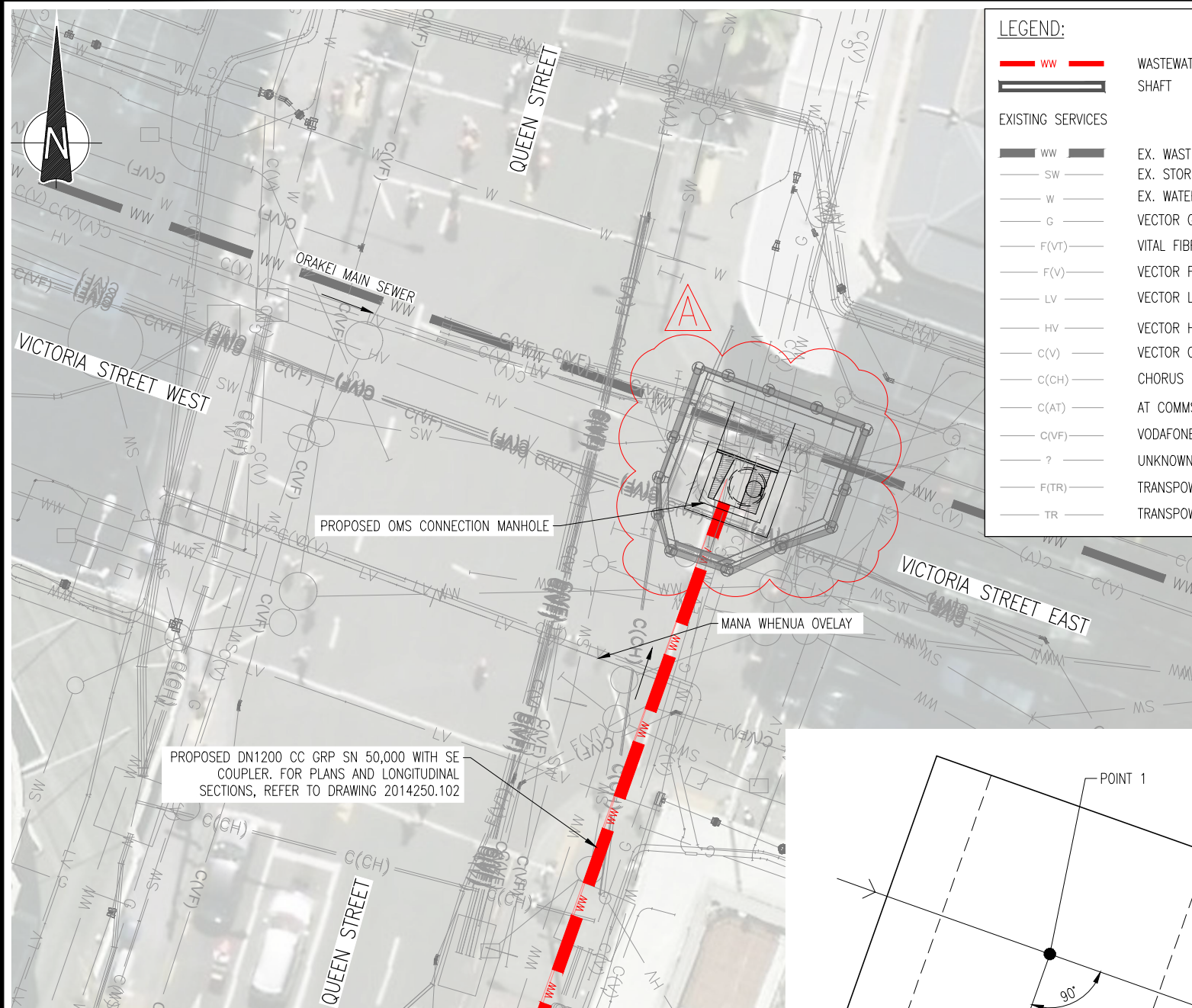
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				DES. APPROVED	B. RUDSITS	05-24	
				DRAWN	S. HASSAN	05-24	
A	05-24	ISSUE FOR TENDER - P3 SHAFTS AND P3-P4 LINK UPDATE	S.H.	DWG. APPROVED	B. RUDSITS	05-24	
-	04-24	ISSUE FOR TENDER	S.H.	WSL DESIGN MGMT.	H. HOSFORD	05-24	
1	12-23	DETAILED DESIGN	N.C.	WSL PROJ. LEAD	-	-	
ISSUE	DATE	AMENDMENT	BY	APPD.	BY	DATE	



QUEEN STREET WASTEWATER DIVERSION
PROPOSED PART 3 MAIN WORKS AND CROSS CONNECTION
PLAN AND LONG SECTION - P3-P4 CONNECTOR TUNNEL

CAD FILE	R0021853.015	DATE	30-05-2024
ORIGINAL SCALE	A3 1:500	CONTRACT No.	-
REF No.	W-SL001.03		
DWG No.	2014250.106	ISSUE	A

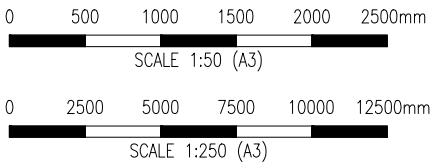
C:\Users\NZ030418\OneDrive\Documents\WSP ANZ projects\AMER\NZ-WSL-EM\Project_Files\W-SL001\01-WPL\CV\3_Leg\Sheets\Detailed Design\2014250.111_112.dwg OMS CONNECTION SHAFT 3 - PLAN AND SECTION
Plot Date: 2024-05-30 at 9:04:22 am
DETAIL - SHEET 1 OF 2
Original sheet size A3 (420x297)



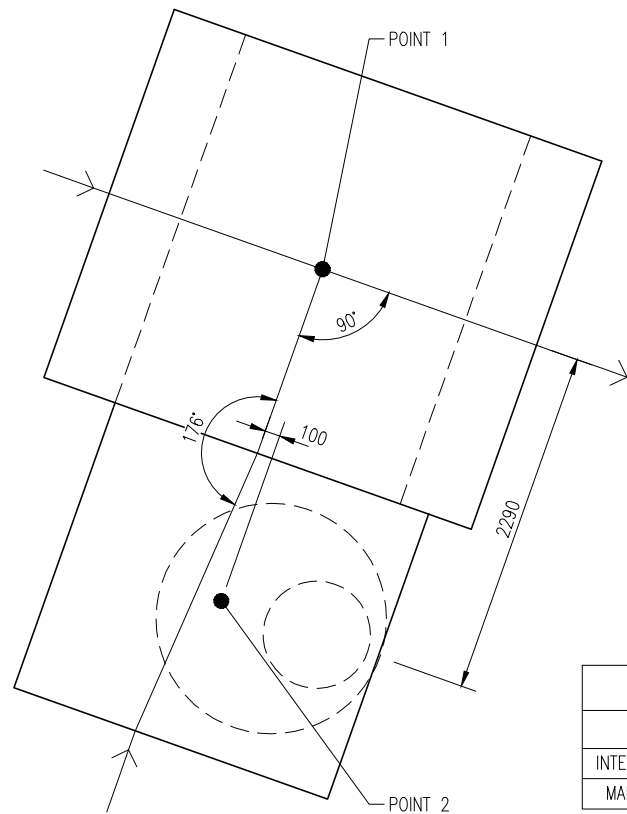
SITE PLAN
SCALE 1:250

NOTES:

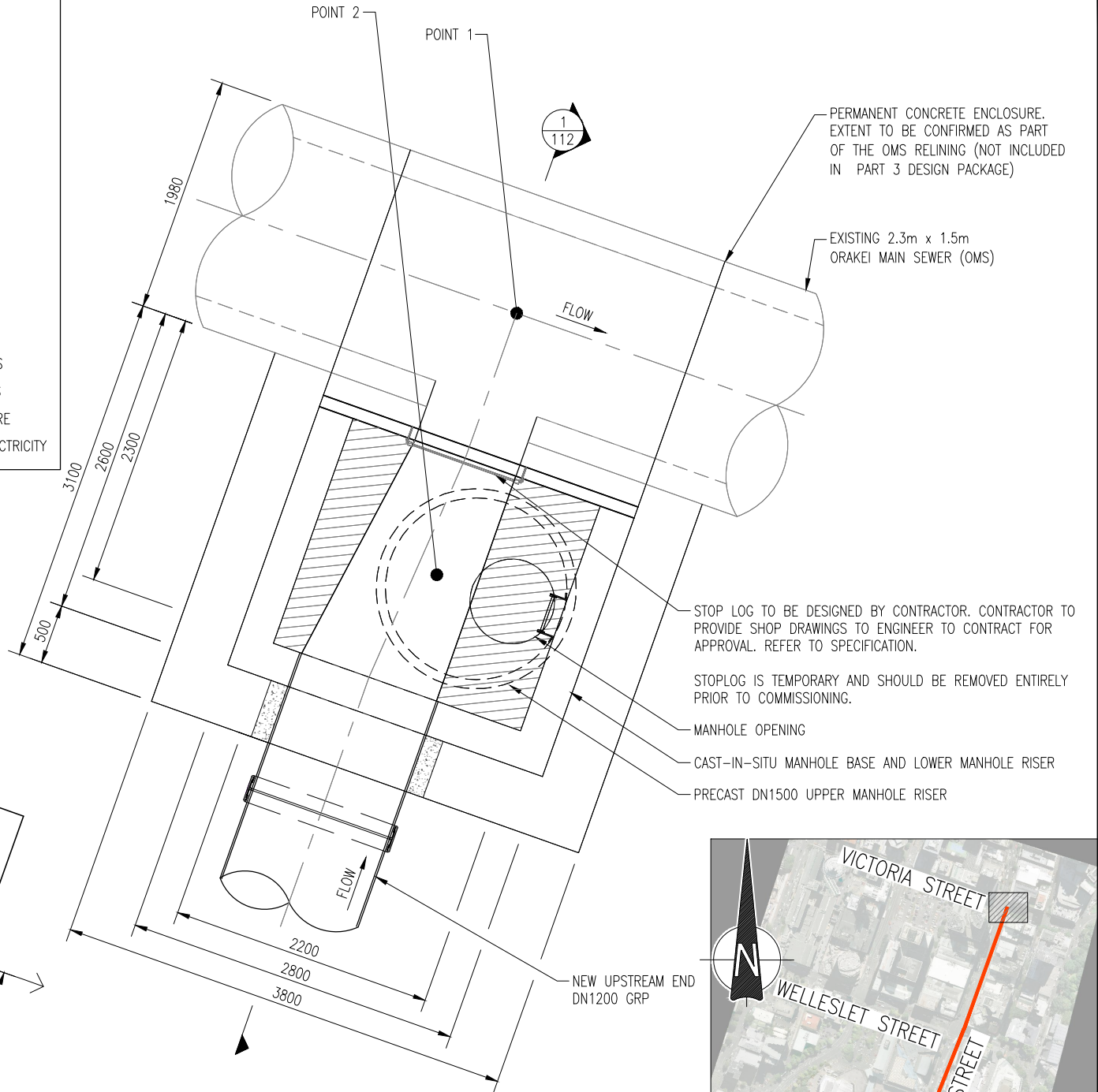
- UTILITIES DIVERSION CAN BE FOUND IN THE FOLLOWING DRAWING SETS:
 - WELLESLEY ST AND MAYORAL DR SHAFTS - R0021853.200 & 300 SERIES
 - VICTORIA ST SHAFT - R0021853.400 SERIES



LEGEND:	
WW	WASTEWATER PIPE
SHAFT	SHAFT
EXISTING SERVICES	
WW	EX. WASTEWATER
SW	EX. STORMWATER
W	EX. WATER
G	VECTOR GAS
F(VT)	VITAL FIBRE
F(V)	VECTOR FIBRE
LV	VECTOR LV
HV	VECTOR HV
C(V)	VECTOR COMMS
C(CH)	CHORUS COMMS
C(AT)	AT COMMS
C(VF)	VODAFONE COMMS
?	UNKNOWN COMMS
F(TR)	TRANSPower FIBRE
TR	TRANSPower ELECTRICITY

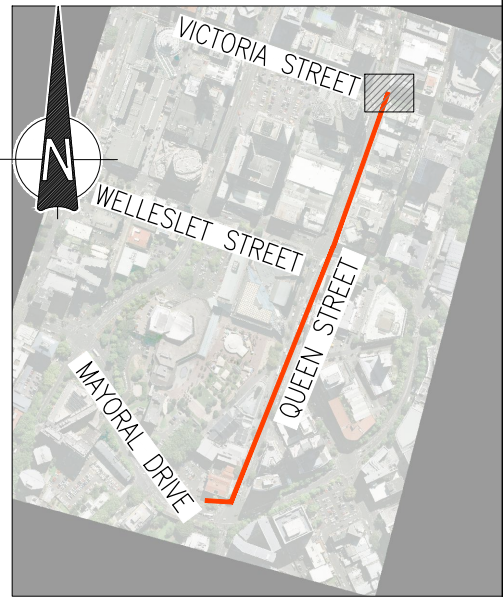


PROPOSED SCHEMATIC PLAN
SCALE 1:50



PLAN
SCALE 1:50

SETOUT POINT		
	EASTING	NORTHING
INTERSECTION POINT (POINT 1)	400114.7342	803406.5225
MANHOLE CENTRE (POINT 2)	400114.0645	803404.3297



LOCATION PLAN
SCALE 1:10,000

FOR TENDER
NOT FOR CONSTRUCTION

ISSUE	DATE	AMENDMENT	BY	APPD.	DESIGNED	DES. APPROVED	DRAWN	DWG. APPROVED	WSL DESIGN MGMT.	WSL PROJ. LEAD
A	05-24	ISSUE FOR TENDER - P3 SHAFTS AND P3-P4 UPDATES	N.C.	G.D.	G. DIAO	P. HARFORD	N. CAJEME	P. HARFORD	H. HOSFORD	-
-	04-24	ISSUE FOR TENDER	N.C.	G.D.	P. HARFORD	-	-	-	-	-
2	02-24	DETAILED DESIGN BASED ON WSL/FH COMMENTS	N.C.	G.D.	-	-	-	-	-	-
1	12-23	DETAILED DESIGN	N.C.	G.D.	-	-	-	-	-	-

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QUEEN STREET WASTEWATER DIVERSION
OMS CONNECTION SHAFT 3
PLAN AND SECTION DETAIL - SHEET 1 OF 2



CAD FILE	2014250.111_112	DATE	30-05-2024
ORIGINAL SCALE	A3 AS SHOWN	CONTRACT No.	-
REF No.	W-SL001.03	DWG No.	2014250.111
ISSUE	A		