

Appendix A – Design drawings

MOTIONS COLLECTOR SEWER DRAWINGS FOR RESOURCE CONSENT

	DRAWING LIST
DRAWING No.	DRAWING TITLE
2014581.290	MOTIONS COLLECTOR SEWER - CIVIL - LOCALITY PLAN AND DRAWING INDEX (DN4500 TUNNEL BORING OPTION)
2014581.200	MOTIONS COLLECTOR SEWER - CIVIL - OVERALL PLAN (DN4500 TUNNEL BORING OPTION)
2014581.201	MOTIONS COLLECTOR SEWER - CIVIL - OVERALL LONG SECTION (DN4500 TUNNEL BORING OPTION) - SHEET 1
2014581.202	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN4500 TUNNEL BORING OPTION) - SHEET 1
2014581.203	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN4500 TUNNEL BORING OPTION) - SHEET 2
2014581.204	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN4500 TUNNEL BORING OPTION) - SHEET 3
2014581.205	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN4500 TUNNEL BORING OPTION) - SHEET 4
2014581.206	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN4500 TUNNEL BORING OPTION) - SHEET 5
2014581.207	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN4500 TUNNEL BORING OPTION) - SHEET 6
2014581.208	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN4500 TUNNEL BORING OPTION) - SHEET 7
2014581.209	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN4500 TUNNEL BORING OPTION) - SHEET 8
2014581.210	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN4500 TUNNEL BORING OPTION) - SHEET 9
2014581.211	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN4500 TUNNEL BORING OPTION) - SHEET 10
2014581.212	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN4500 TUNNEL BORING OPTION) - SHEET 11
2014581.213	MOTIONS COLLECTOR SEWER - CIVIL - BRANCH PLAN AND LONG SECTION - SHEET 1
2014581.214	MOTIONS COLLECTOR SEWER - CIVIL - BRANCH PLAN AND LONG SECTION - SHEET 2
2014581.215	MOTIONS COLLECTOR SEWER - CIVIL - BRANCH PLAN AND LONG SECTION - SHEET 3
2014581.216	MOTIONS COLLECTOR SEWER - CIVIL - BRANCH PLAN AND LONG SECTION - SHEET 4
2014581.217	MOTIONS COLLECTOR SEWER - CIVIL - BRANCH PLAN AND LONG SECTION - SHEET 5
2014581.218	MOTIONS COLLECTOR SEWER - CIVIL - SH-CRL CONNECTION - PLAN AND LONG SECTION
2014581.219	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH01
2014581.220	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH02
2014581.221	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH03
2014581.222	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH04
2014581.223	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH05
2014581.224	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SHO6
2014581.225	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH07a
2014581.226	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH07b SH07c
2014581.227	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH09 SH10
2014581.228	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH11
2014581.229	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH13 SH14 SH15

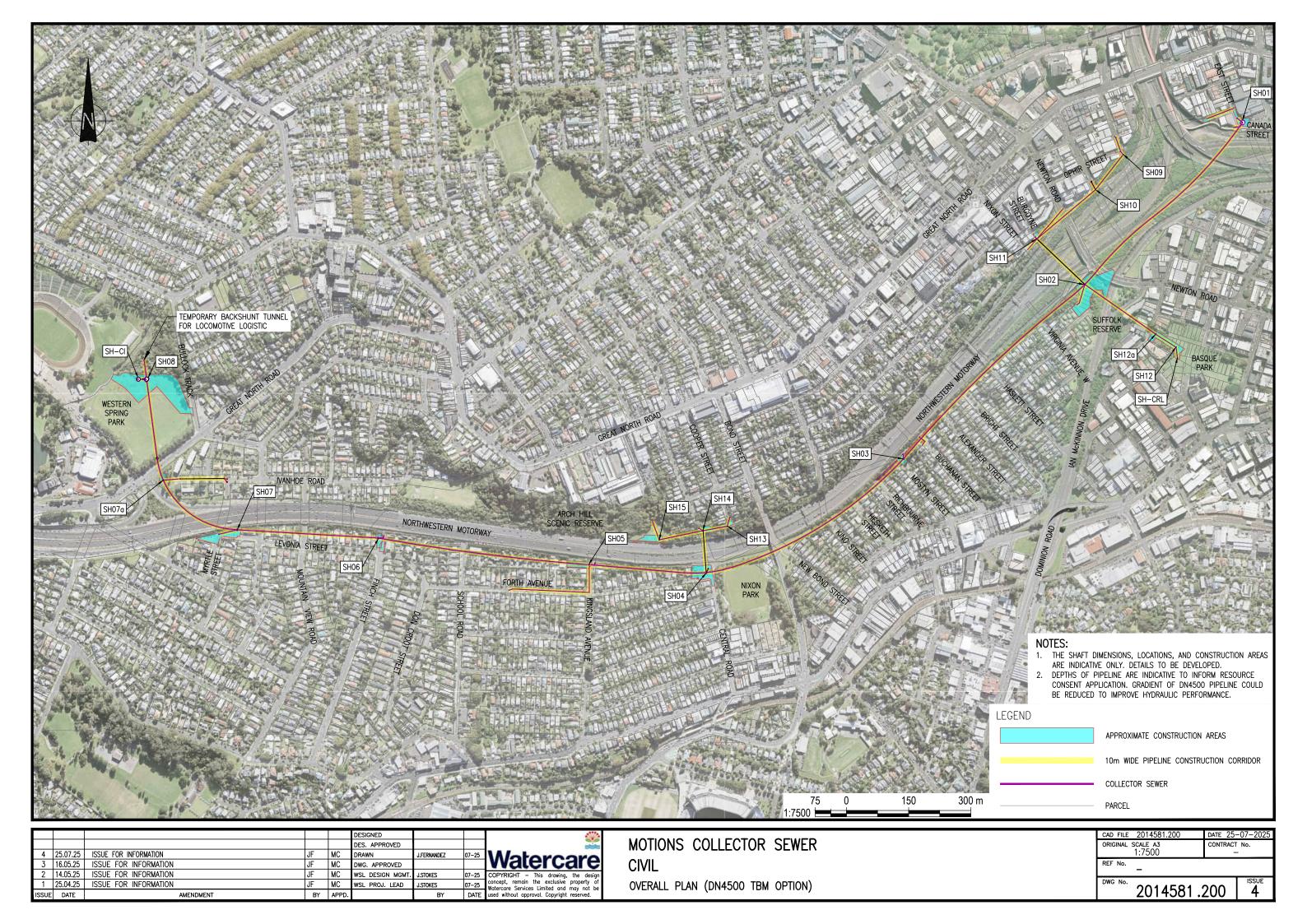


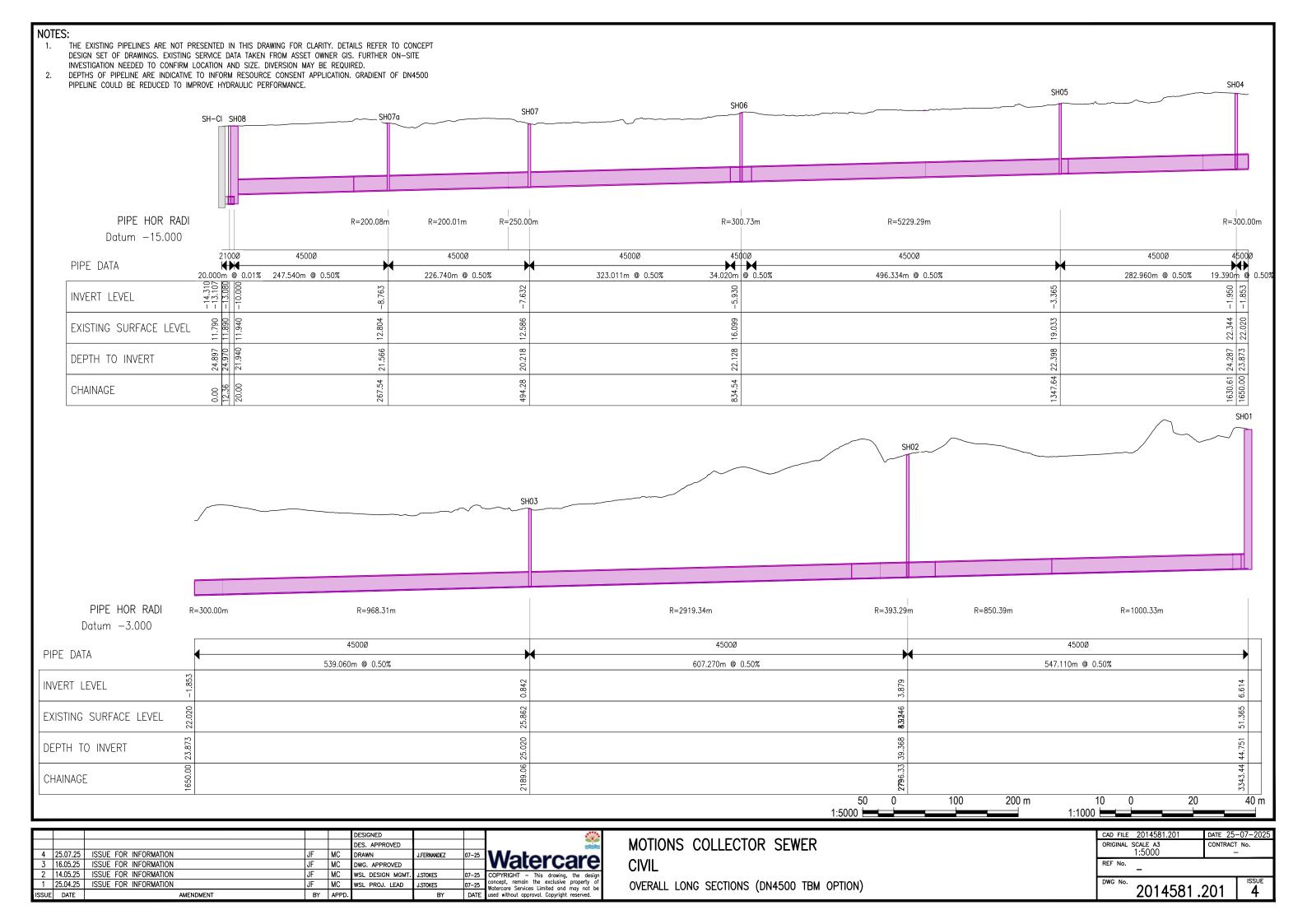
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1	16.05.25	ISSUE FOR INFORMATION	JF	MC	WSL PROJ. LEAD	J.STOKES	07-25	concept, remain the exclusive property of Watercare Services Limited and may not be
ISSUE	DATE	AMENDMENT	BY	APPD.		BY		used without approval. Copyright reserved.

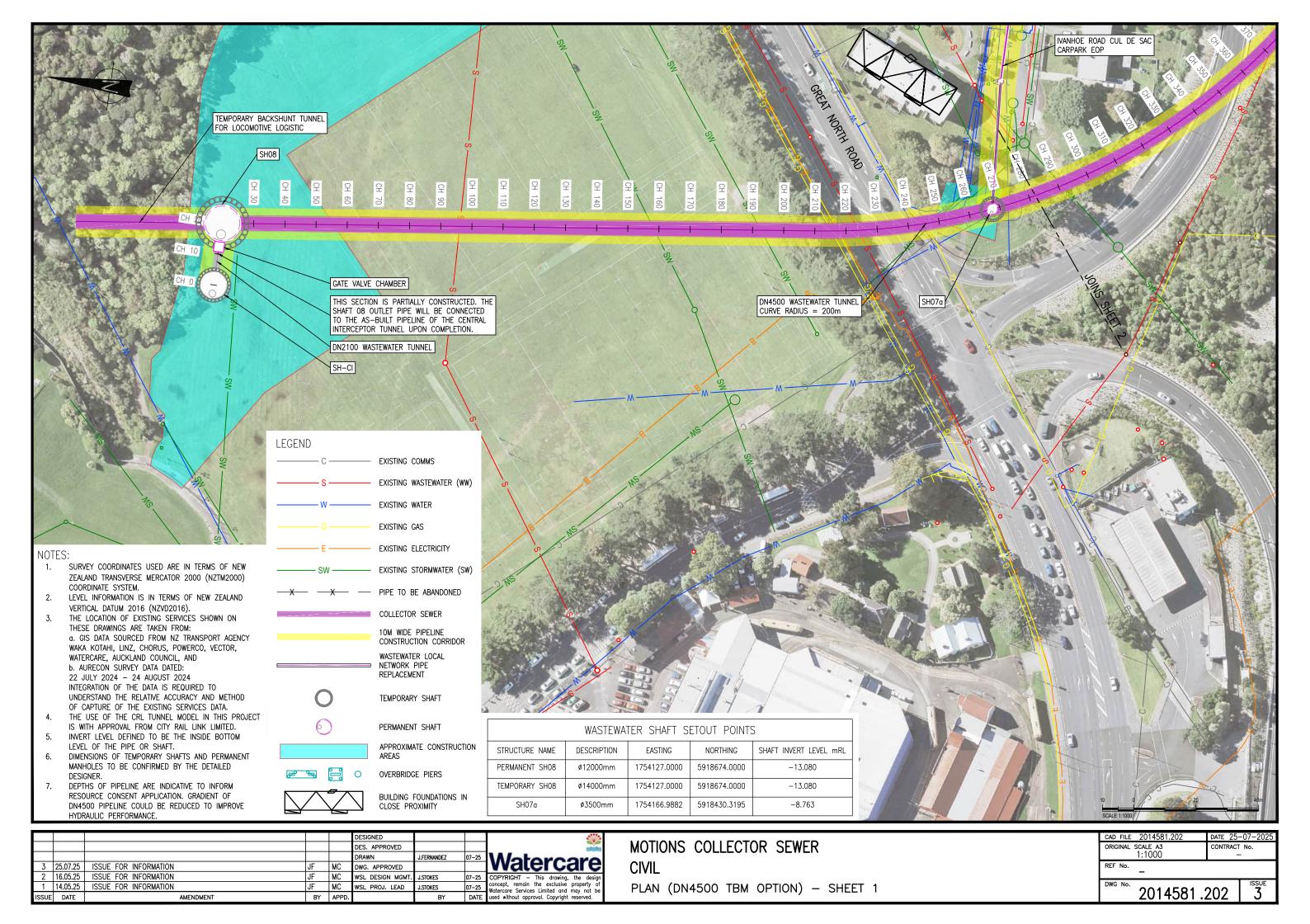
MOTIONS COLLECTOR SEWER CIVIL

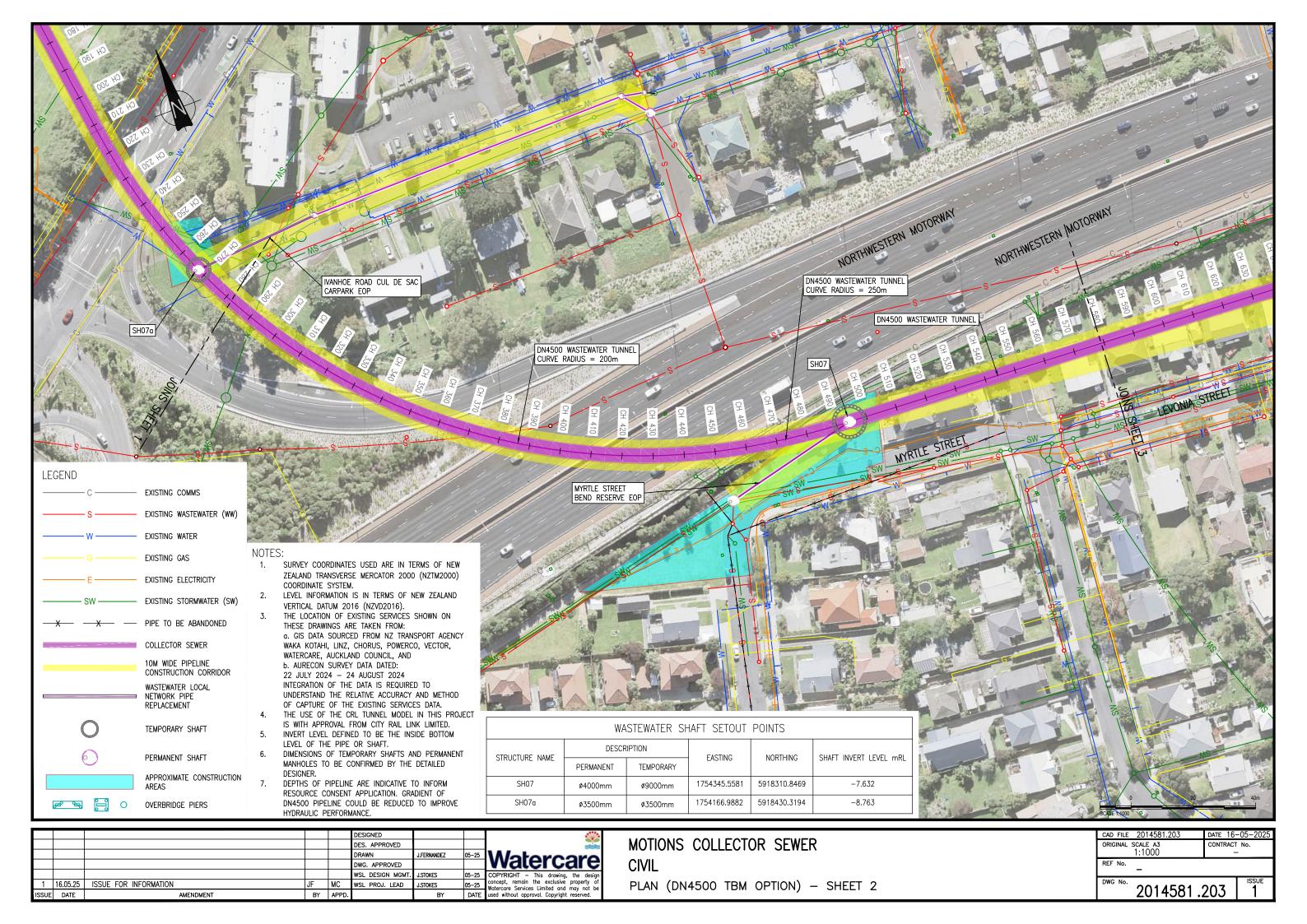
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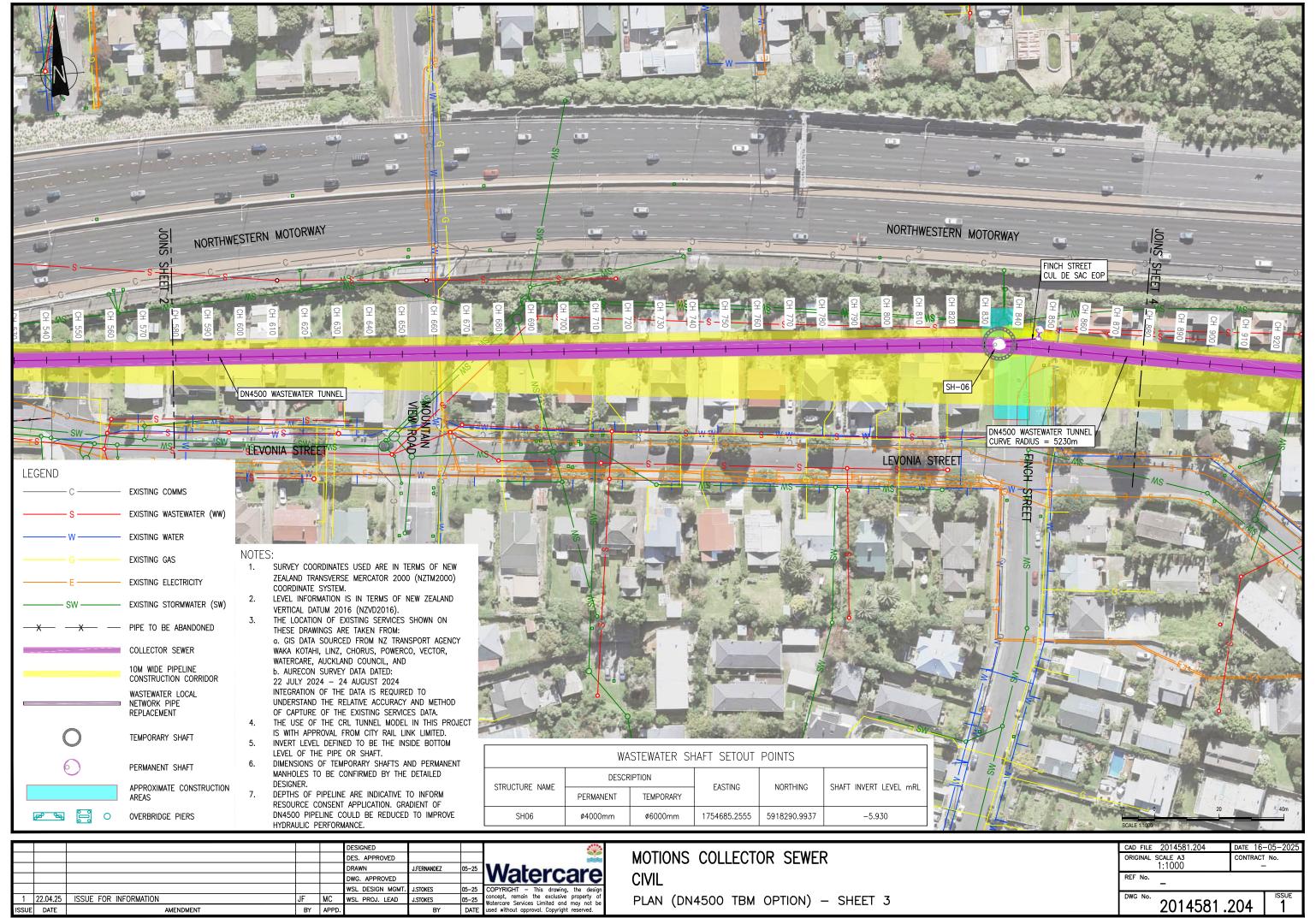
LOCALITY PLAN AND DRAWING INDEX (DN4500 TBM OPTION)





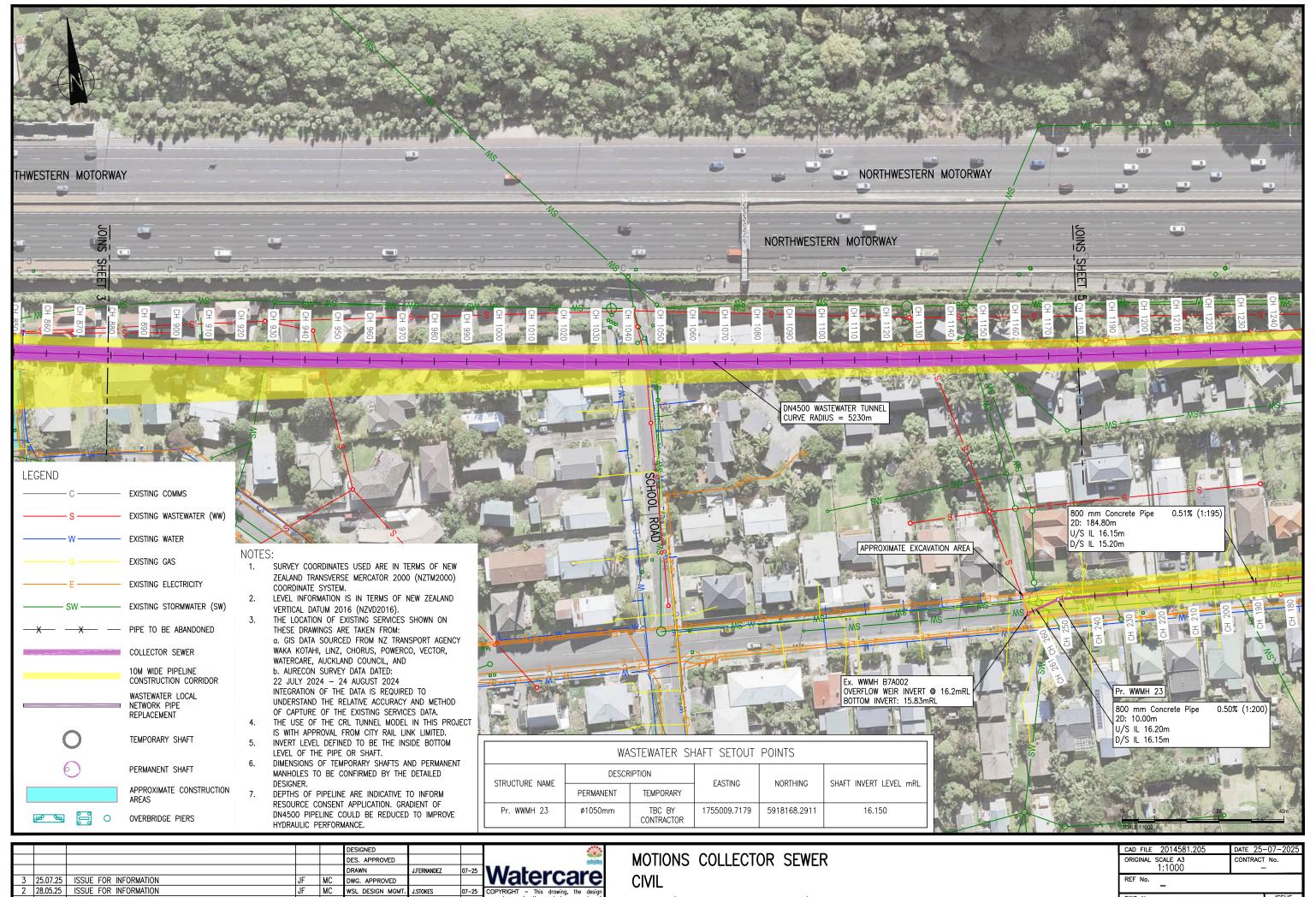






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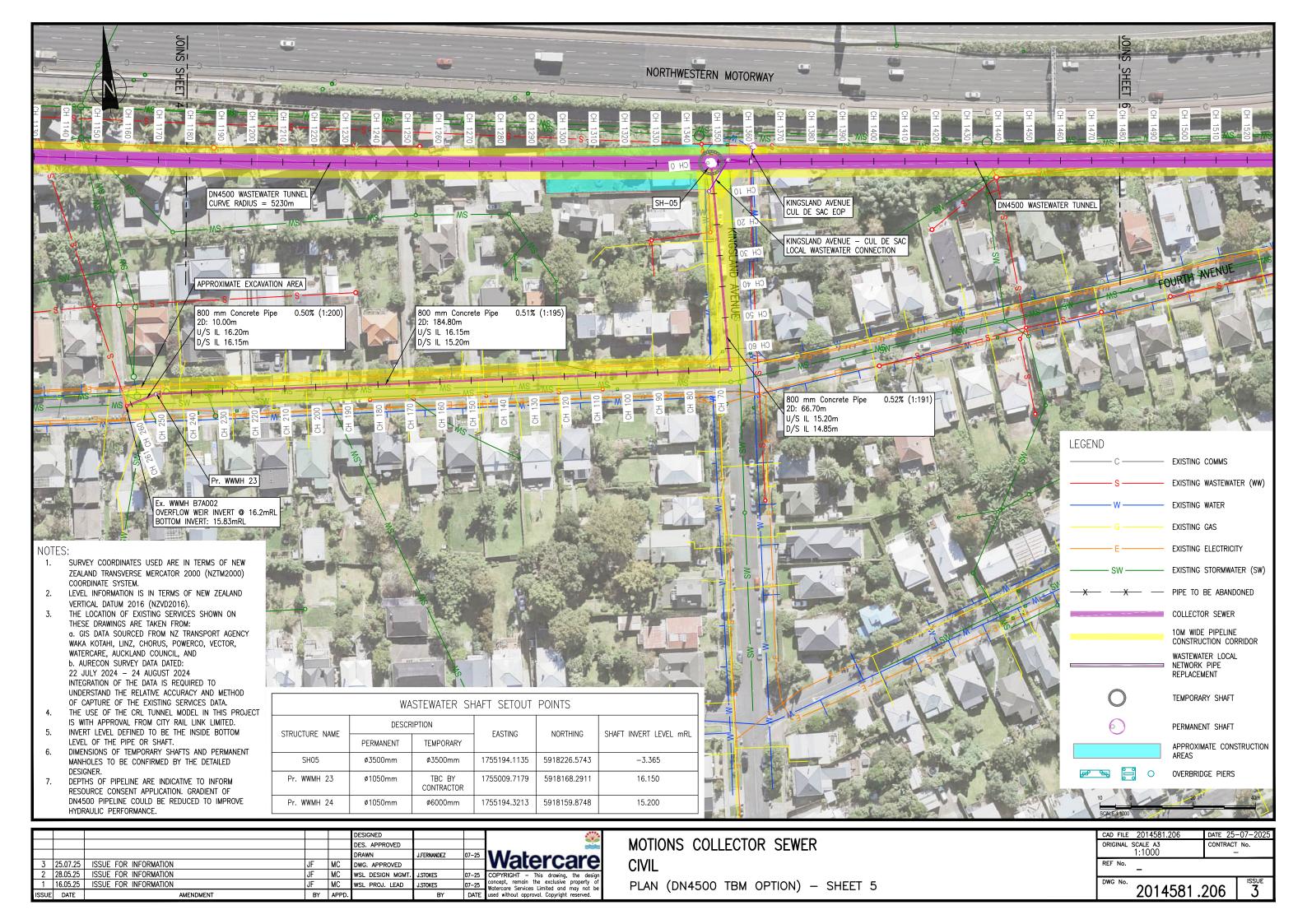
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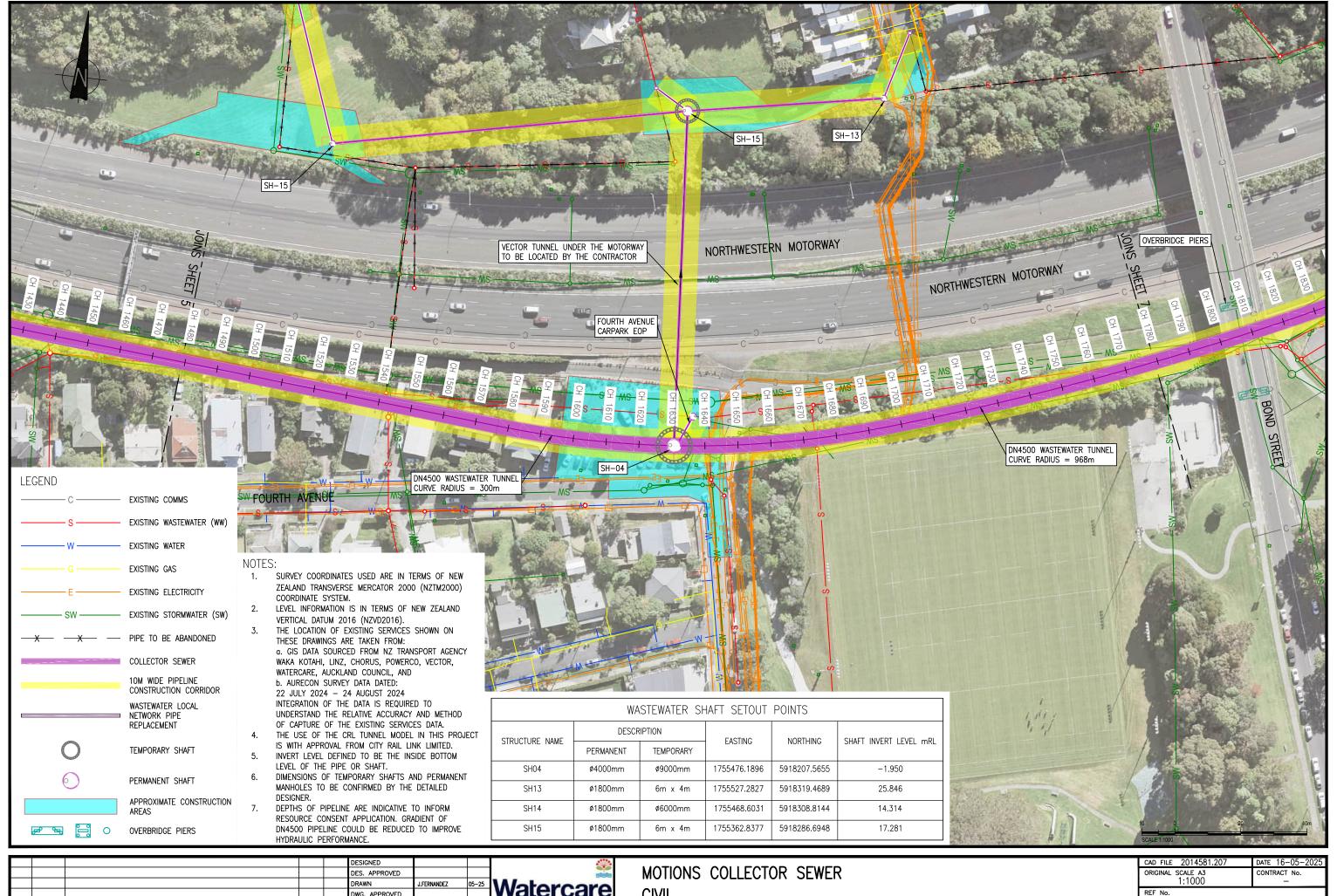


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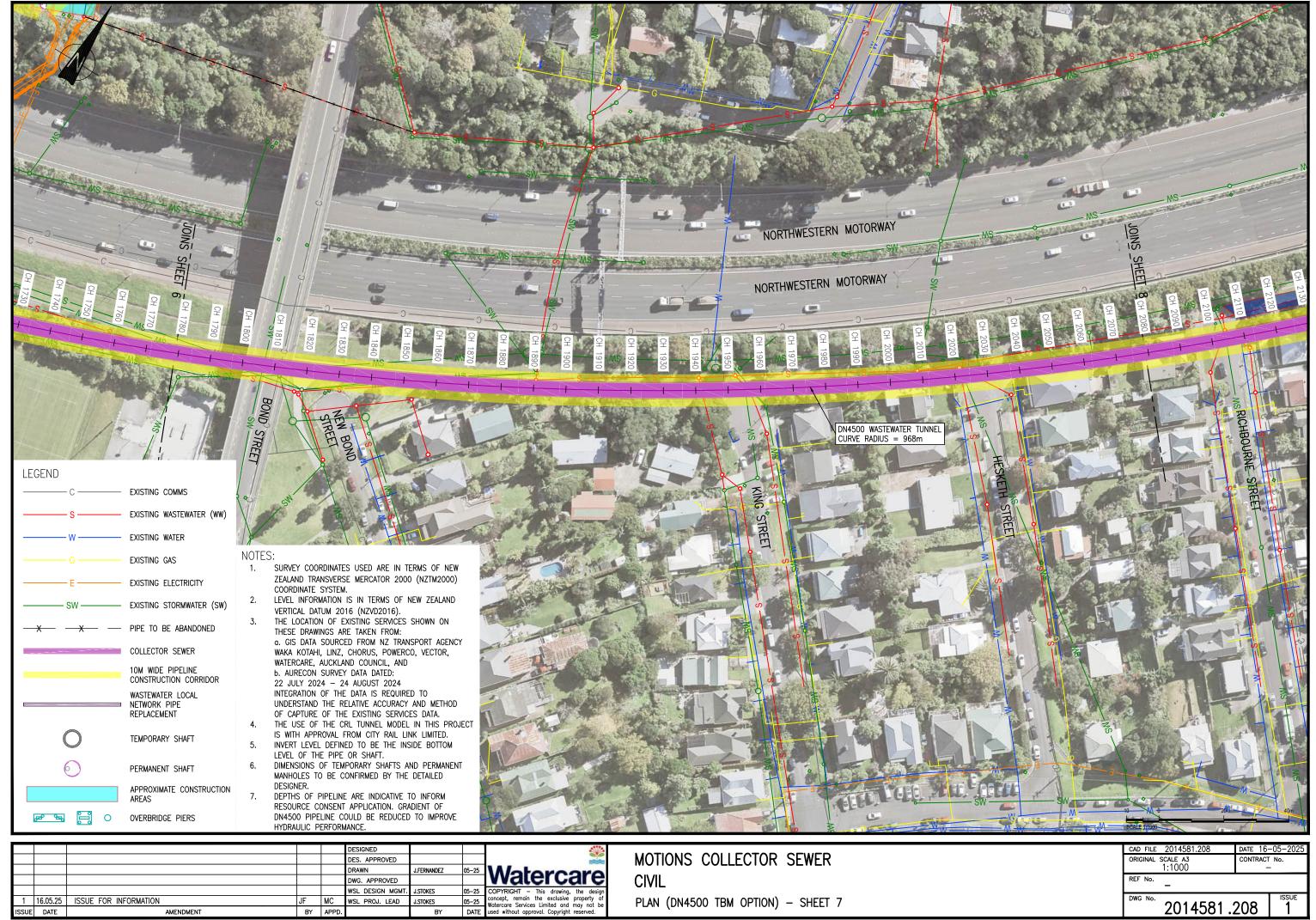


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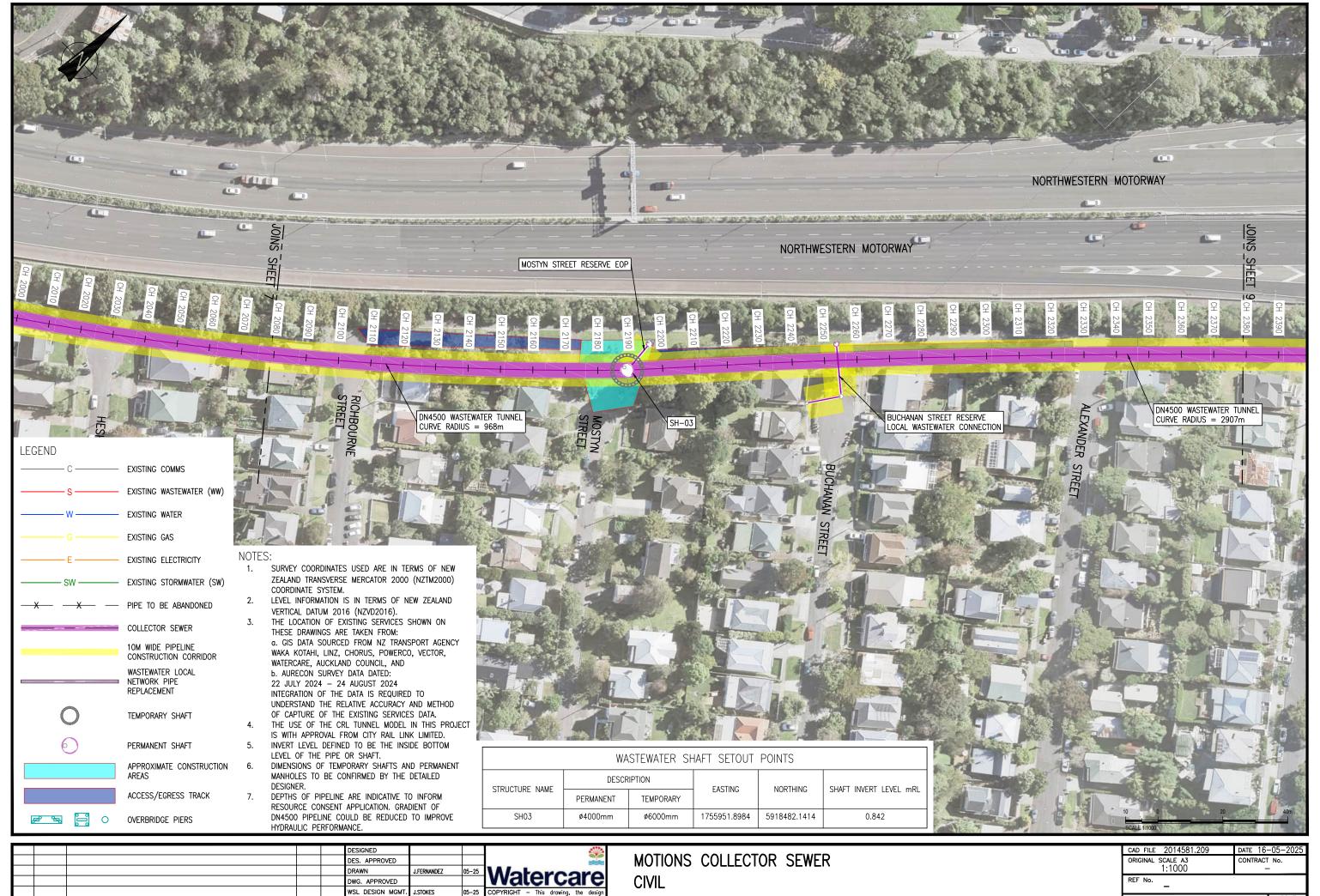
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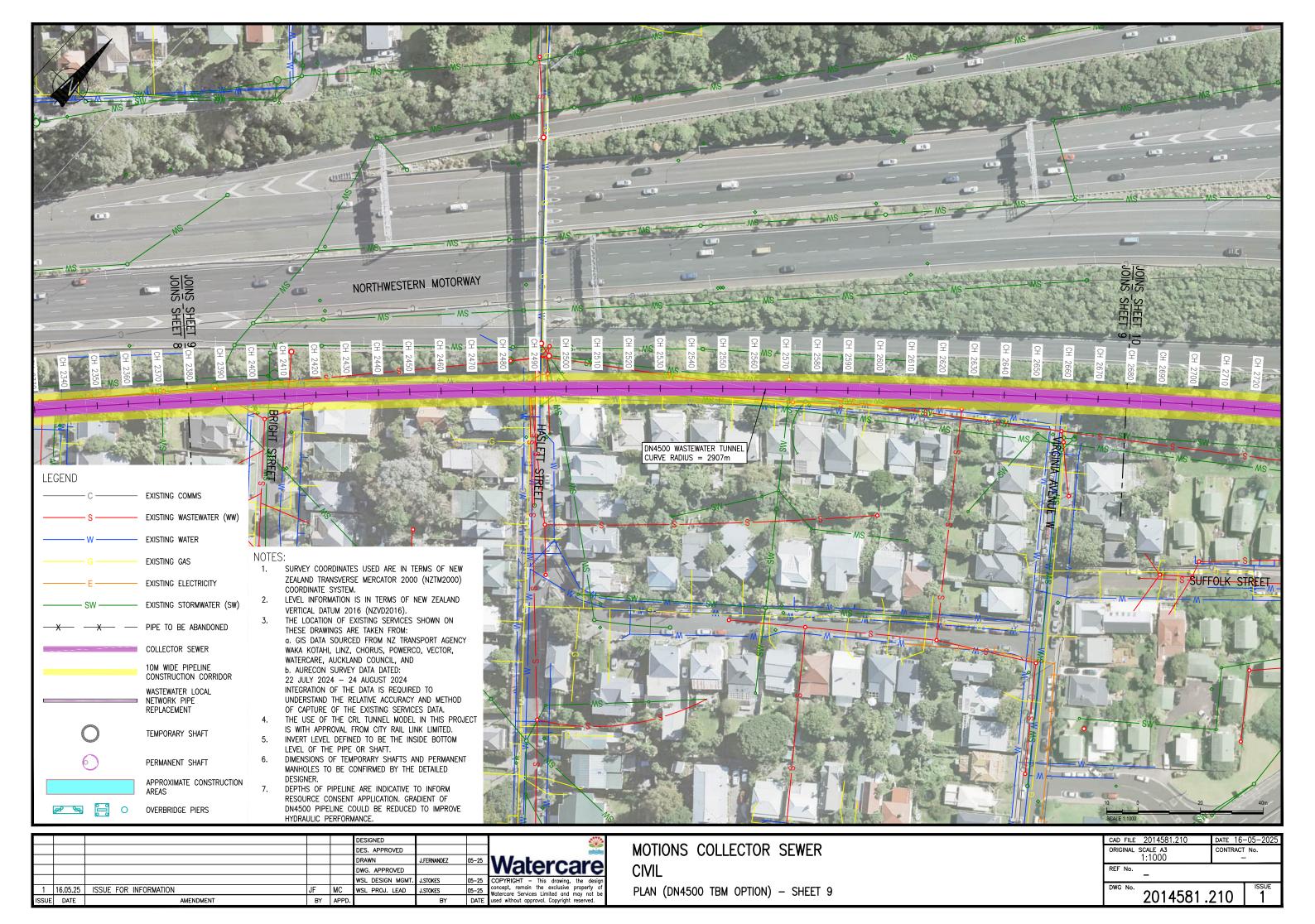
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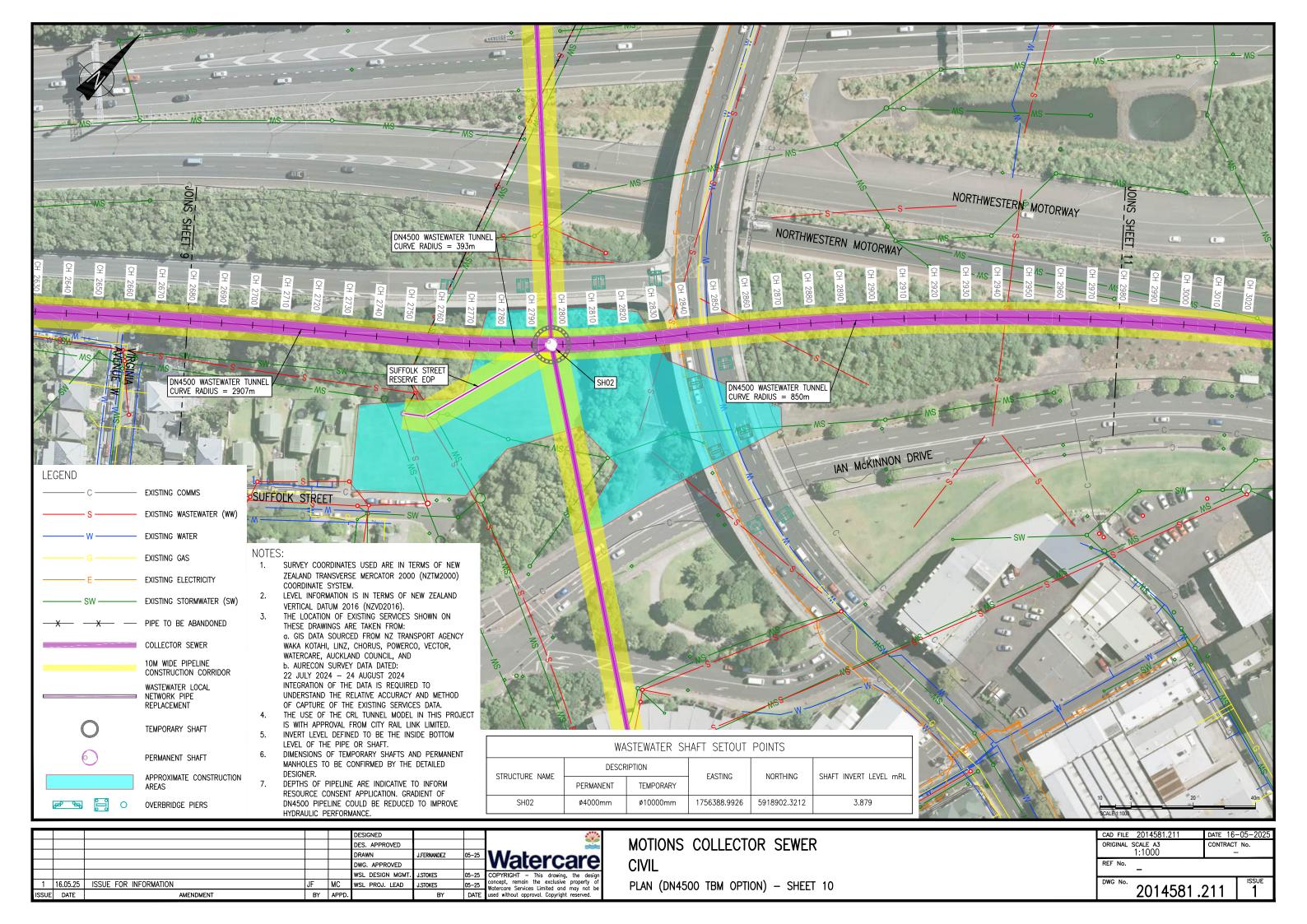


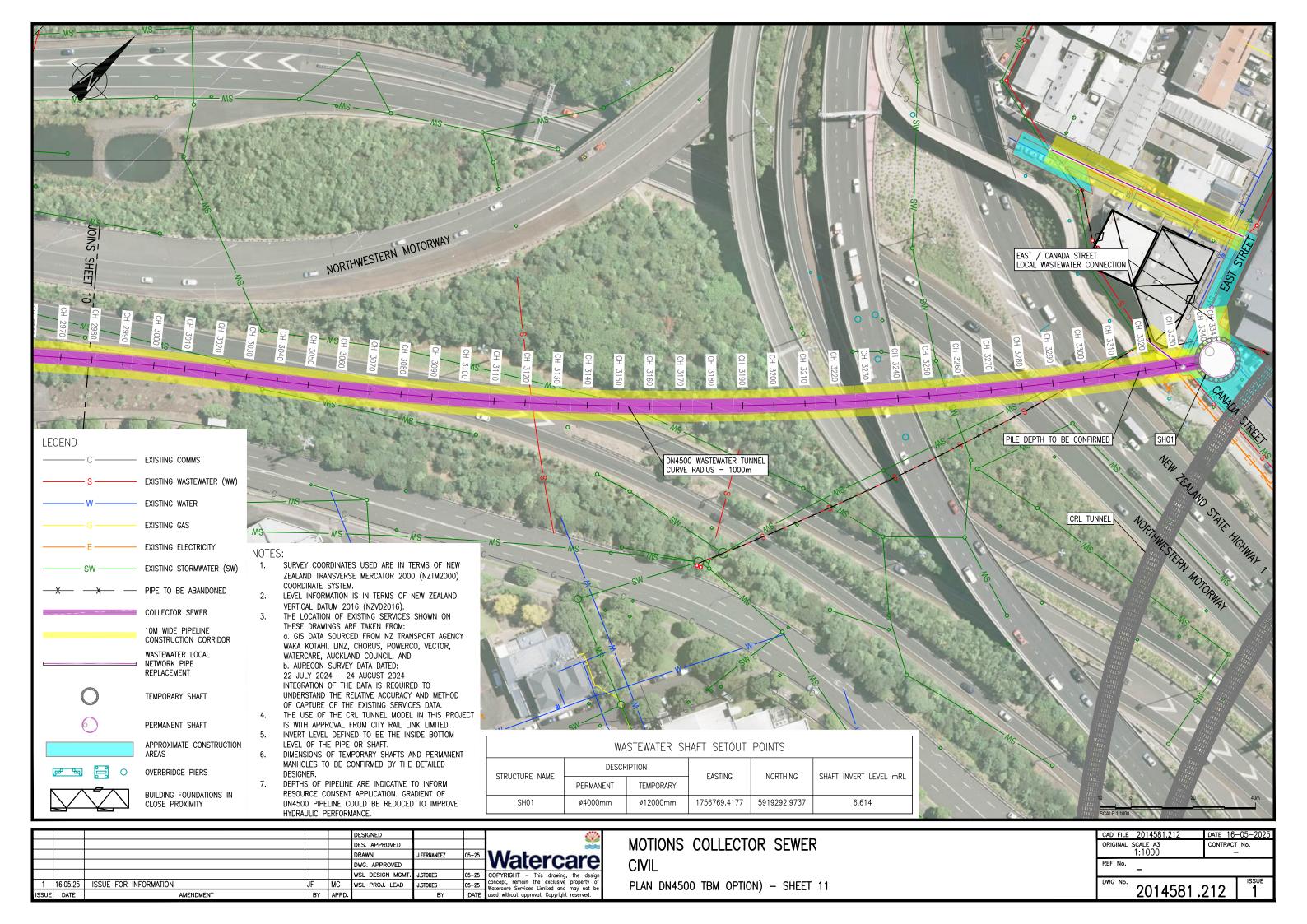
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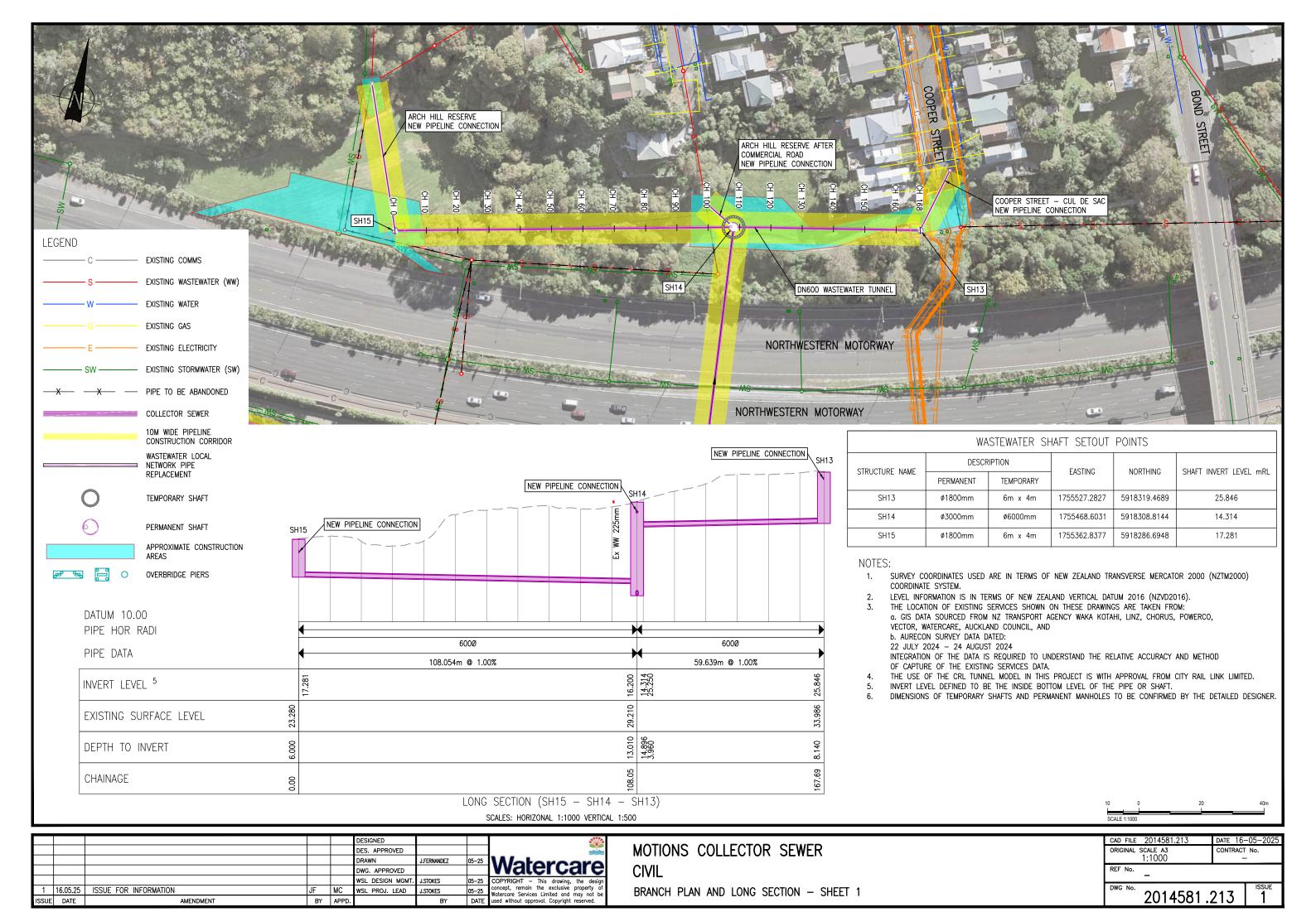
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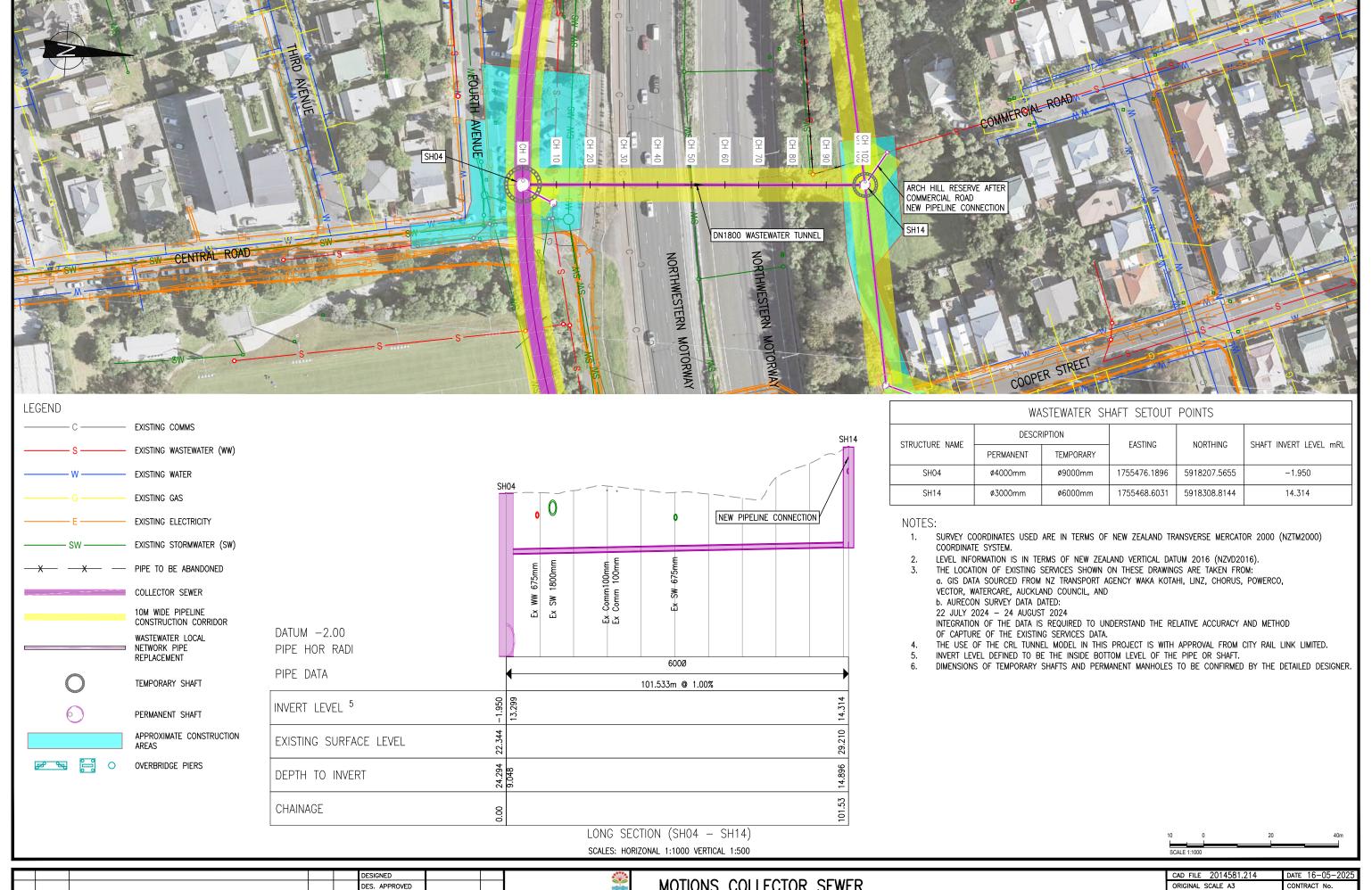
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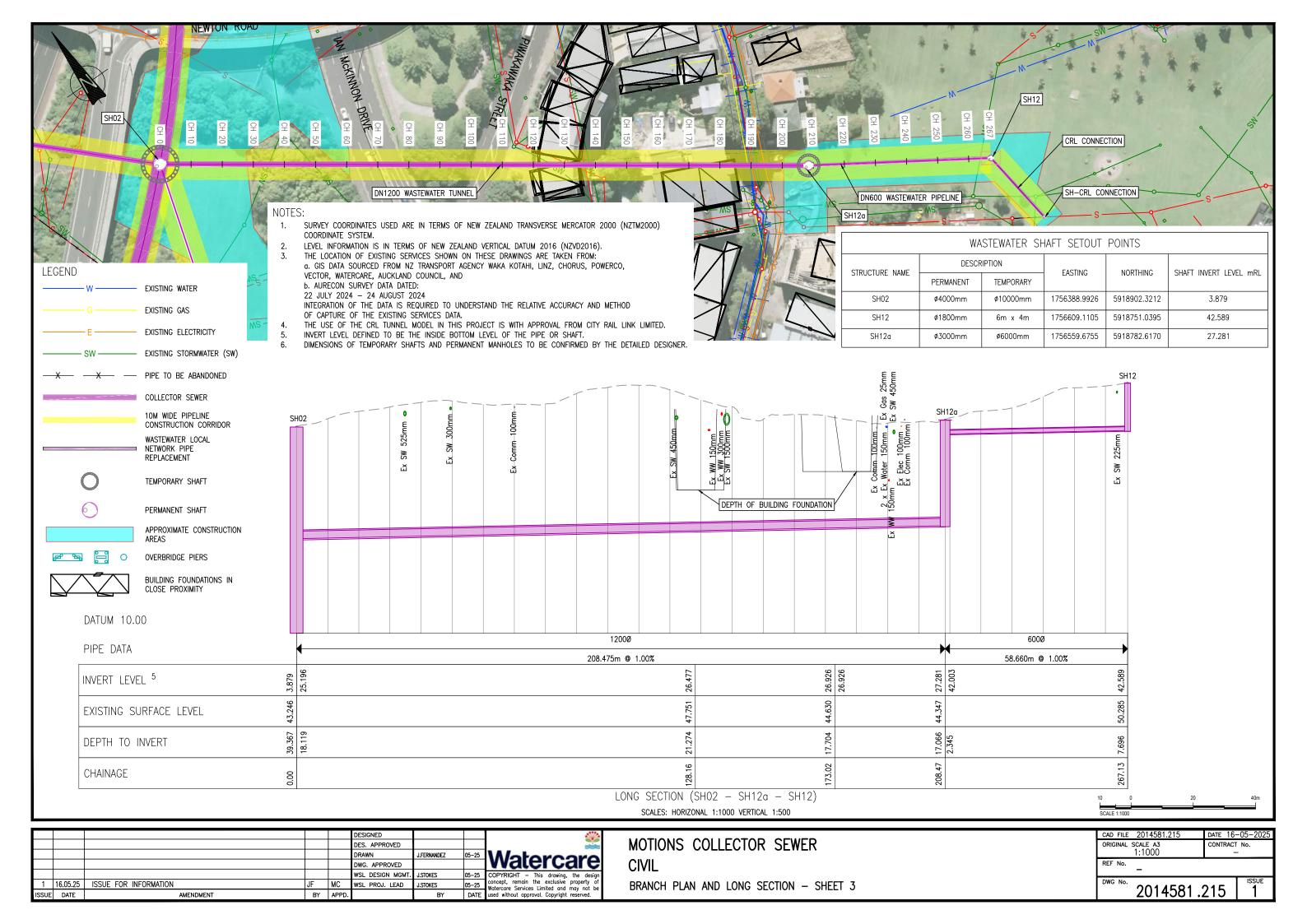


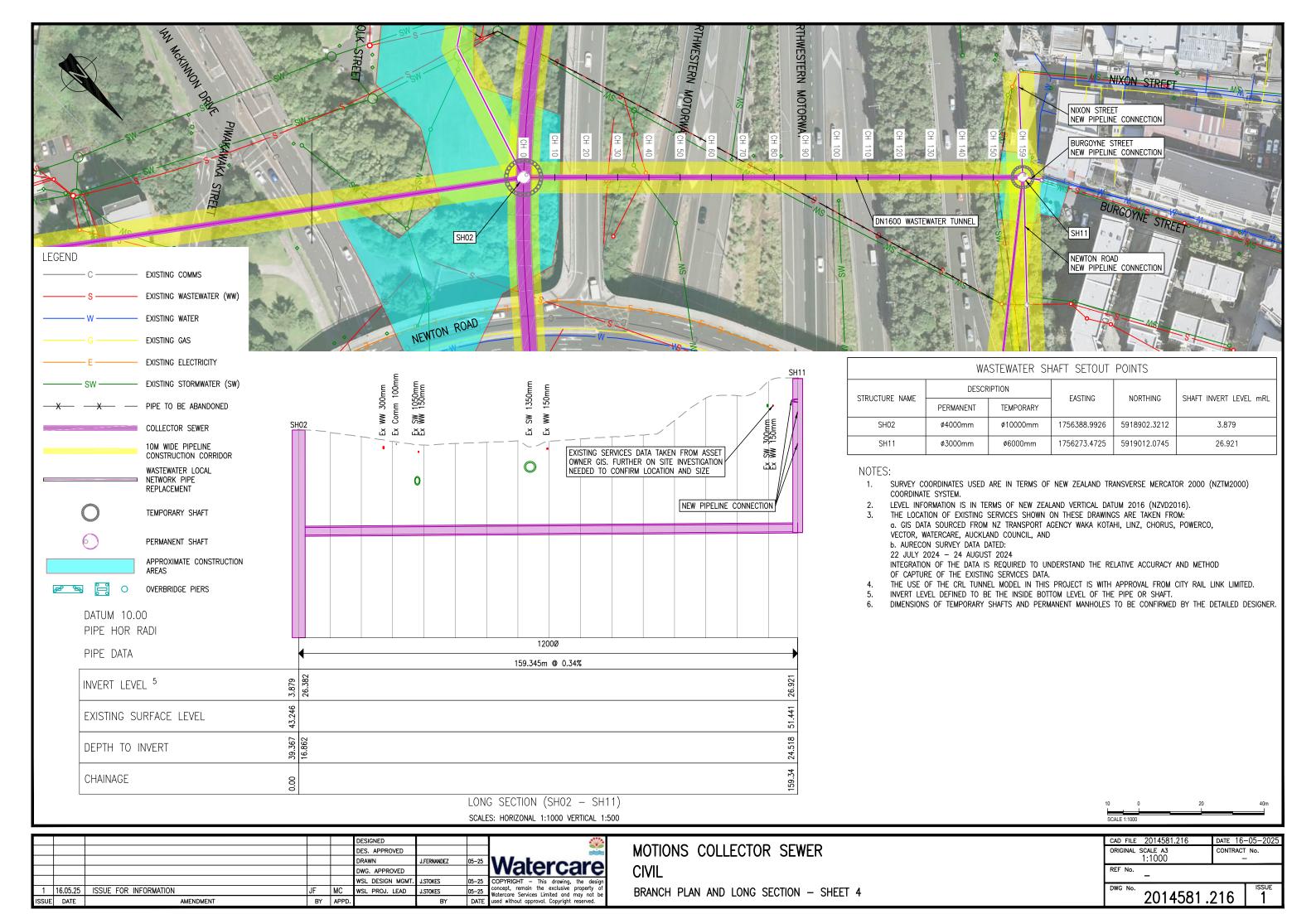


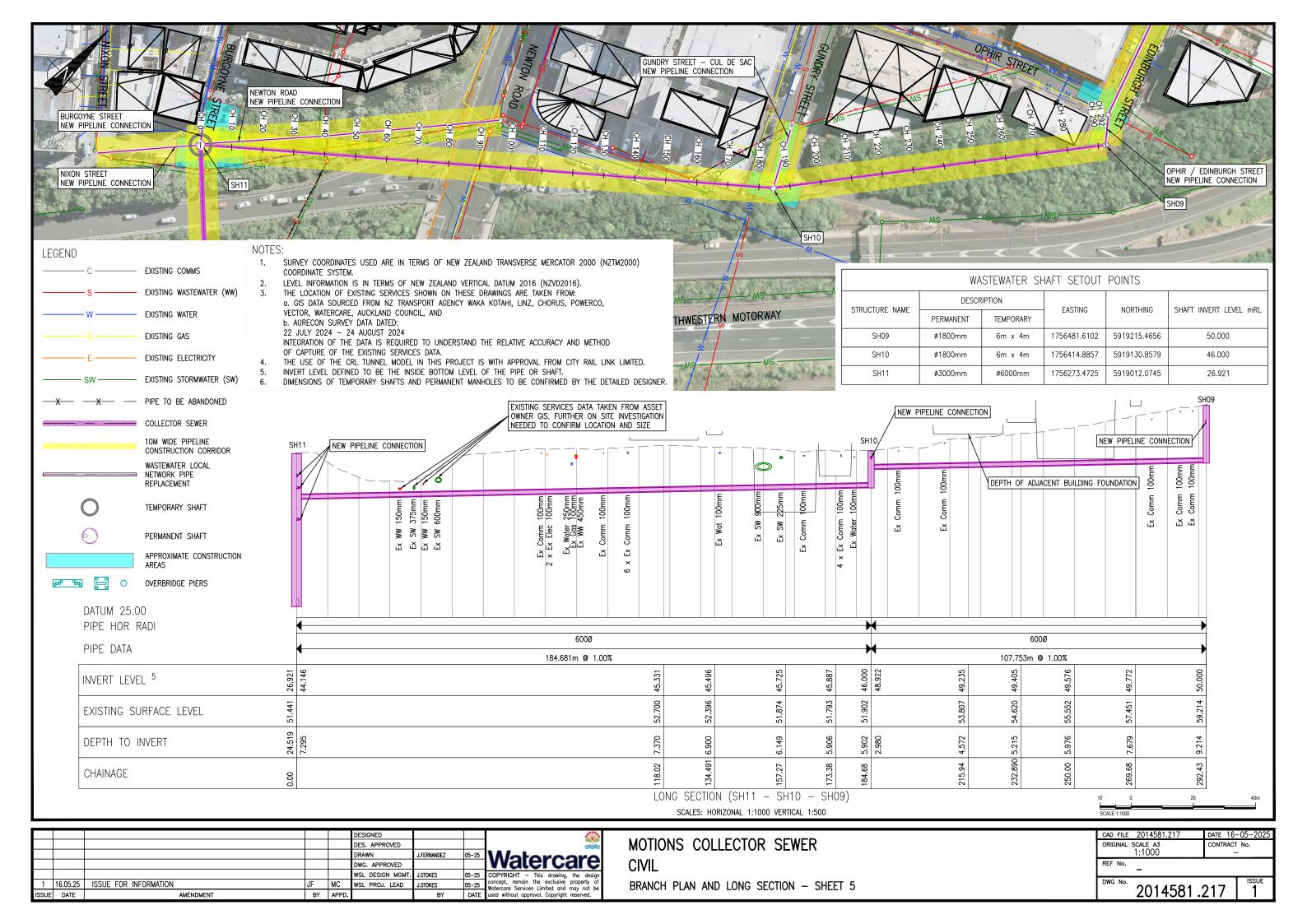
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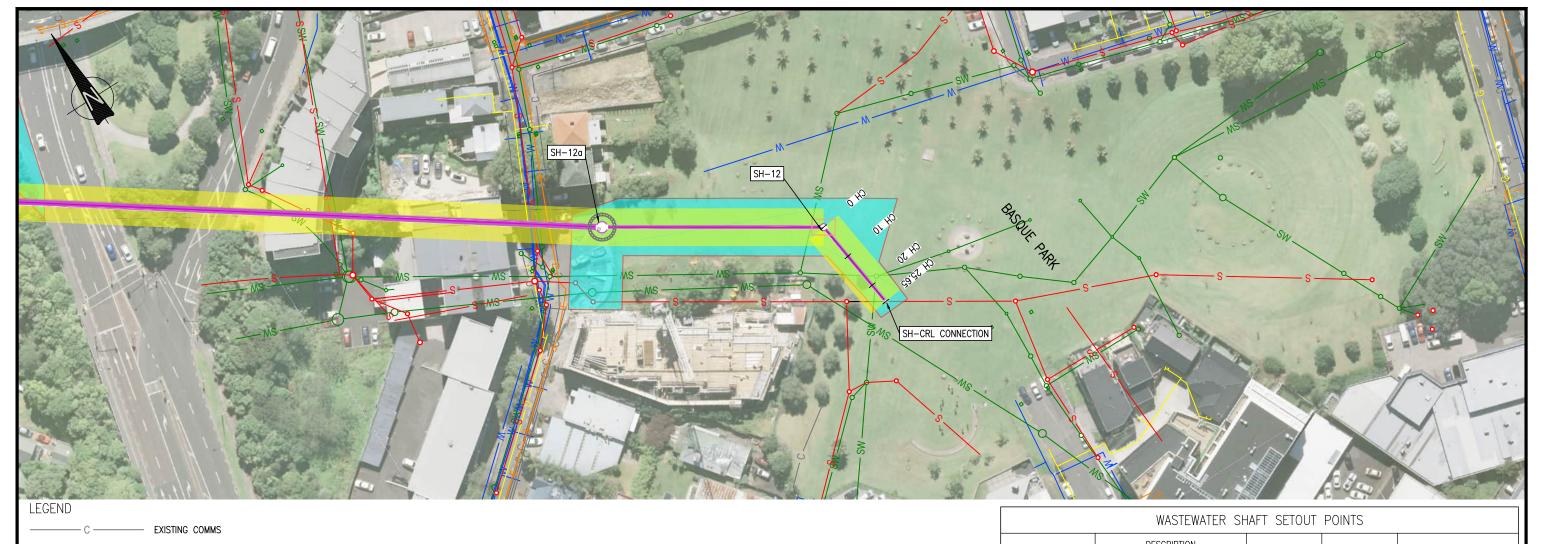
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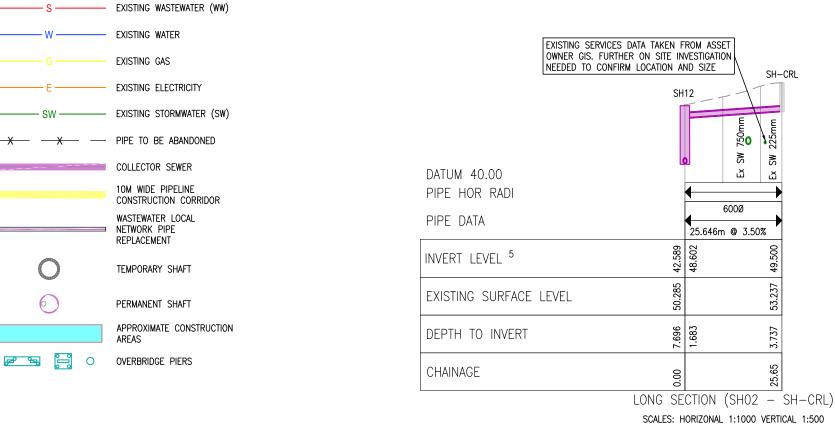
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	WASTEWATER SHAFT SETOUT POINTS											
STRUCTURE NAME	DESCR	IPTION	EASTING	NORTHING	SHAFT INVERT LEVEL mRL							
STRUCTURE NAME	PERMANENT	TEMPORARY	LASTING	NONTHING	SHAFT HIVERT LEVEL HIRL							
SH12	ø1800mm	6m x 4m	1756609.1105	5918751.0395	42.589							
SH-CRL	ø1050mm	-	1756612.3715	5918725.6022	49.500							

NOTES:

- SURVEY COORDINATES USED ARE IN TERMS OF NEW ZEALAND TRANSVERSE MERCATOR 2000 (NZTM2000) COORDINATE SYSTEM.
- LEVEL INFORMATION IS IN TERMS OF NEW ZEALAND VERTICAL DATUM 2016 (NZVD2016).
- THE LOCATION OF EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE TAKEN FROM:

 a. GIS DATA SOURCED FROM NZ TRANSPORT AGENCY WAKA KOTAHI, LINZ, CHORUS, POWERCO, VECTOR, WATERCARE, AUCKLAND COUNCIL, AND b. AURECON SURVEY DATA DATED:

22 JULY 2024 - 24 AUGUST 2024

- INTEGRATION OF THE DATA IS REQUIRED TO UNDERSTAND THE RELATIVE ACCURACY AND METHOD OF CAPTURE OF THE EXISTING SERVICES DATA.
- THE USE OF THE CRL TUNNEL MODEL IN THIS PROJECT IS WITH APPROVAL FROM CITY RAIL LINK LIMITED.
- INVERT LEVEL DEFINED TO BE THE INSIDE BOTTOM LEVEL OF THE PIPE OR SHAFT.
- DIMENSIONS OF TEMPORARY SHAFTS AND PERMANENT MANHOLES TO BE CONFIRMED BY THE DETAILED DESIGNER.

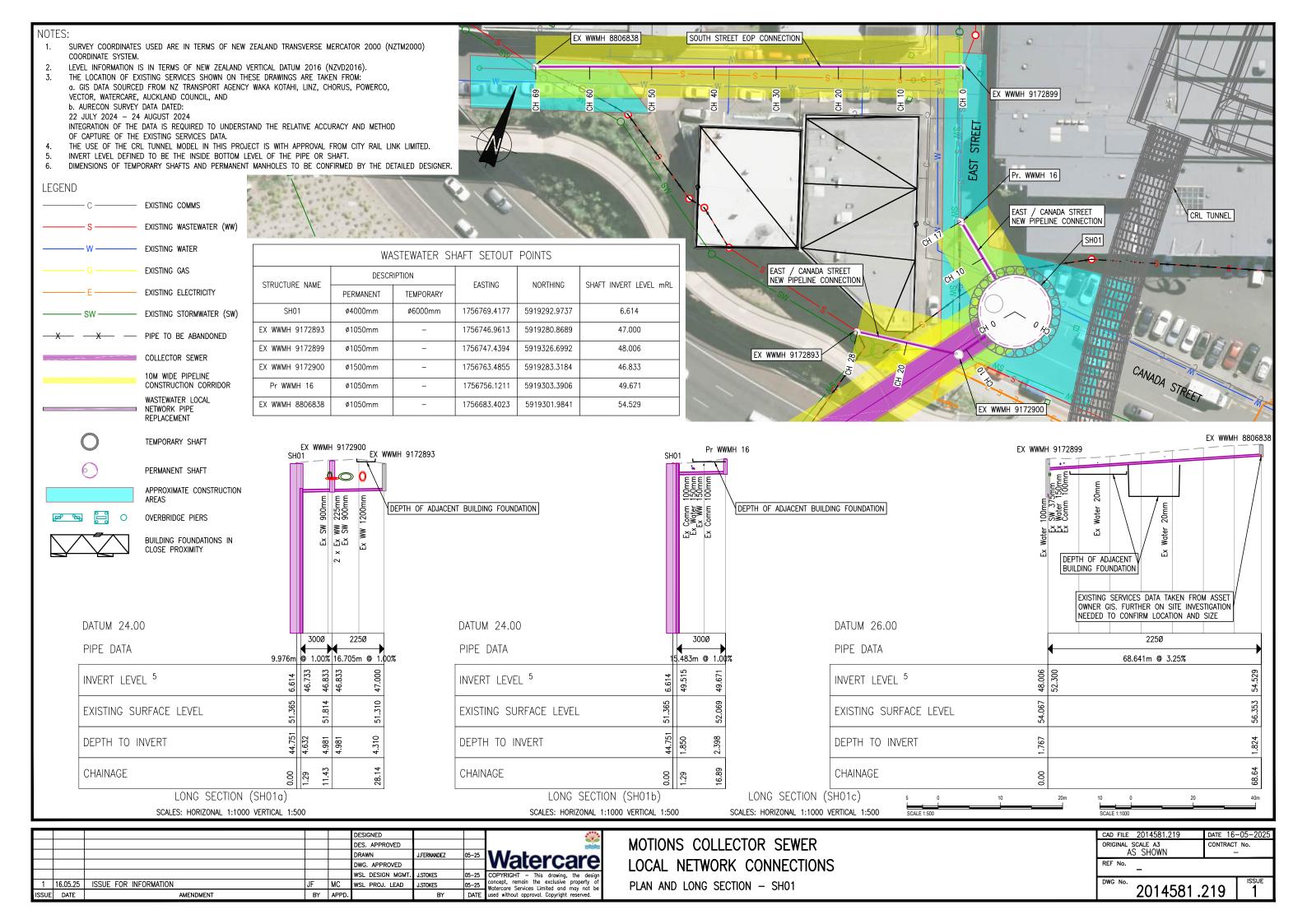
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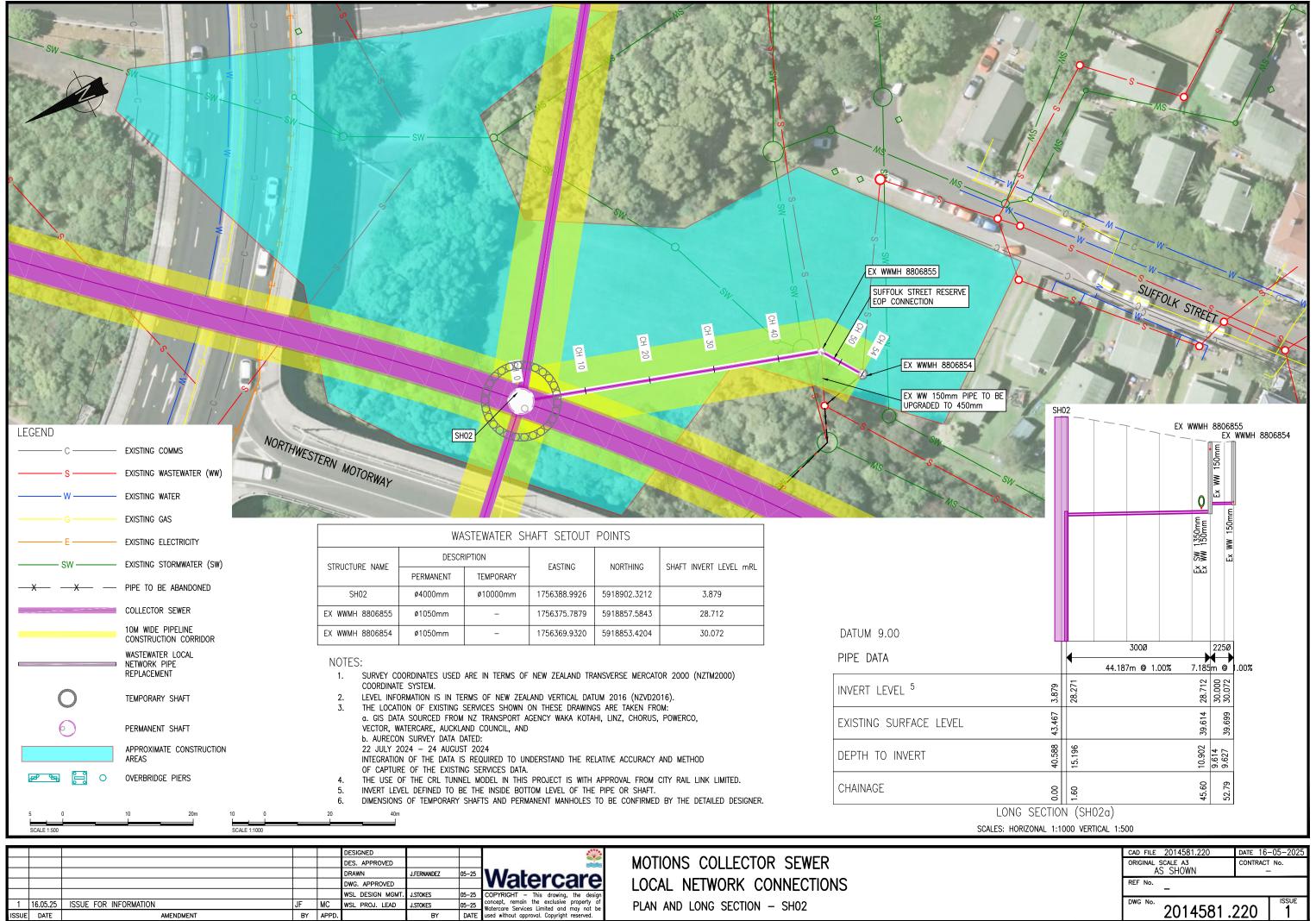
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MOTIONS COLLECTOR SEWER CIVIL

SH-CRL CONNECTION

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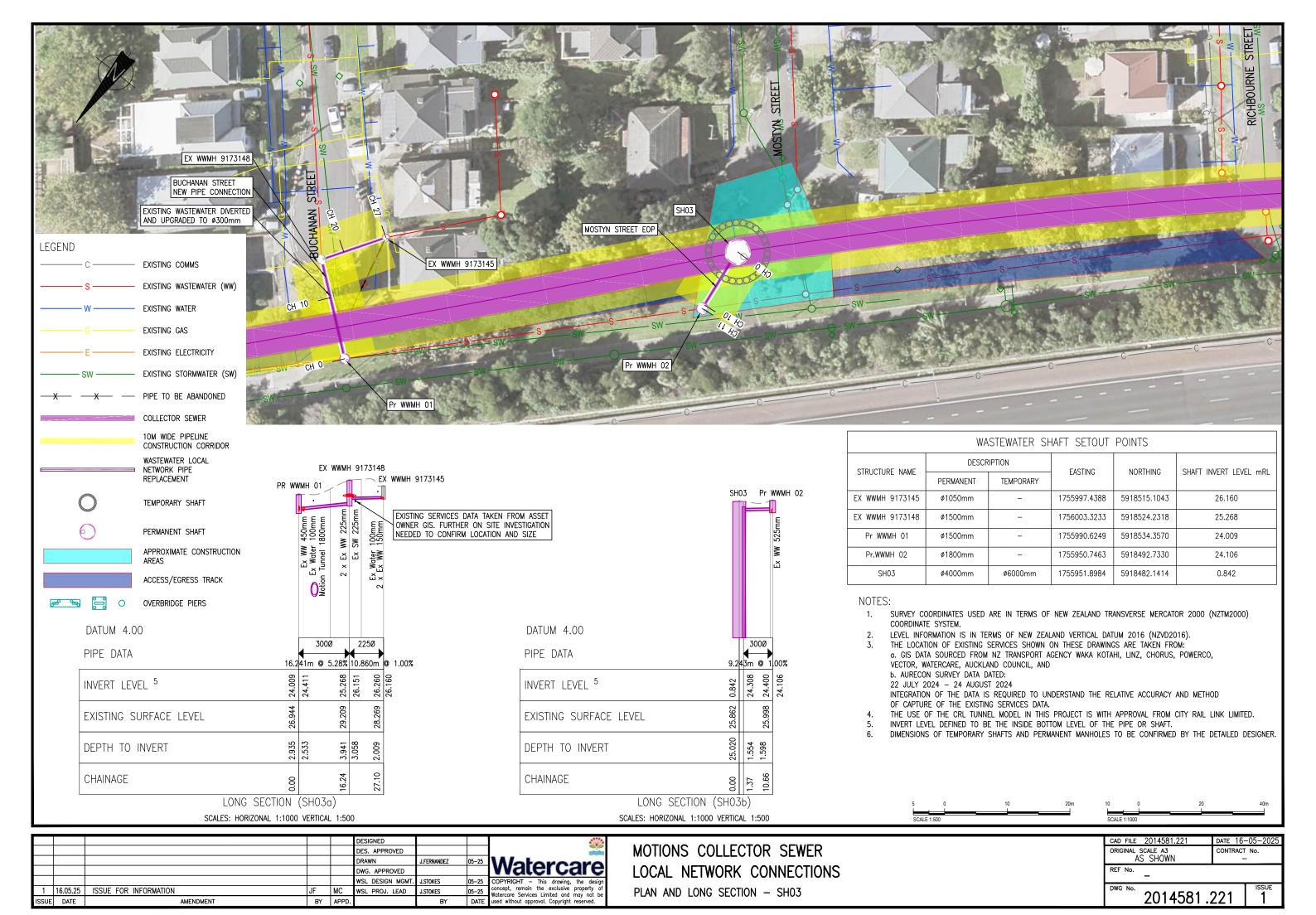


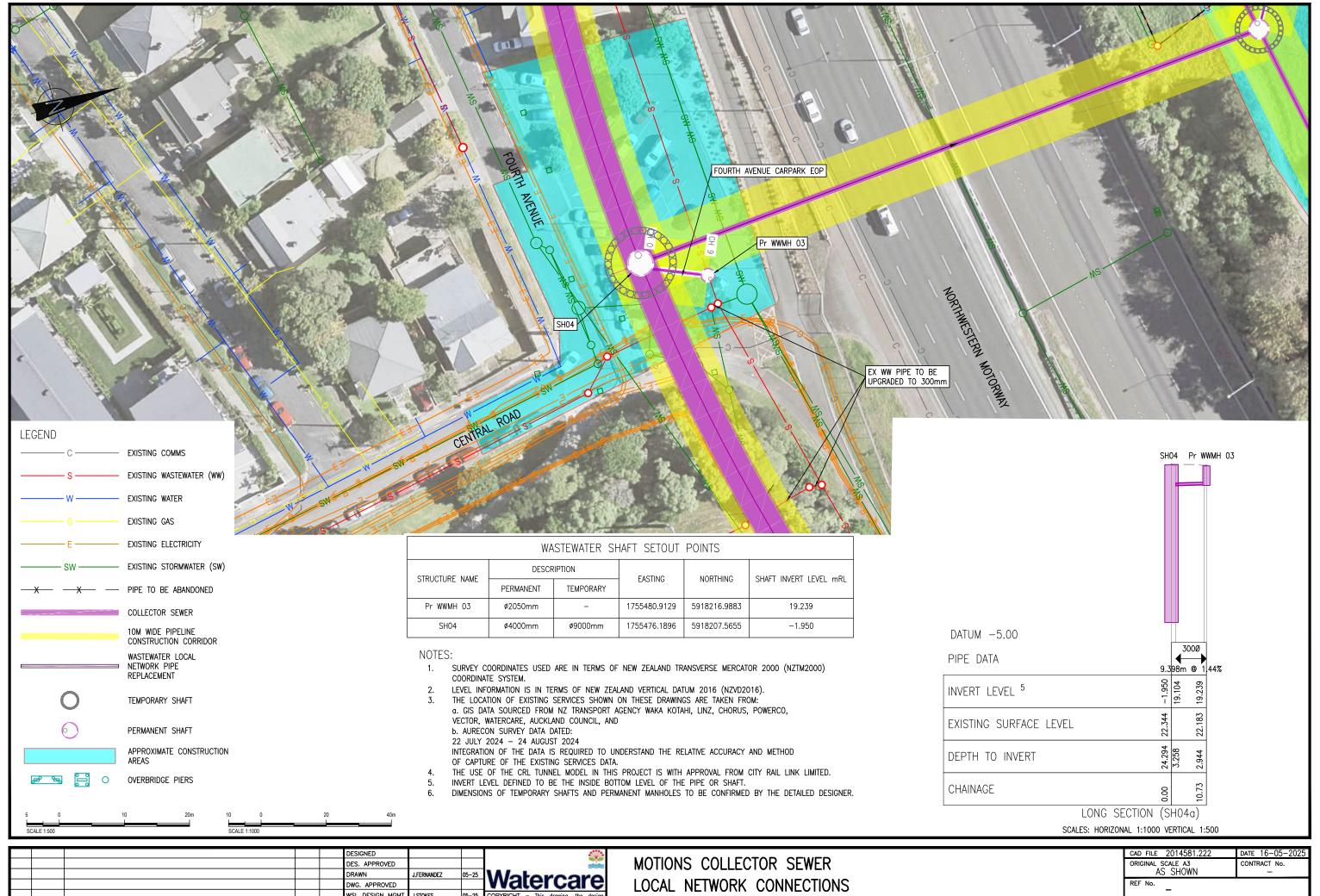


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PLAN AND LONG SECTION - SH02

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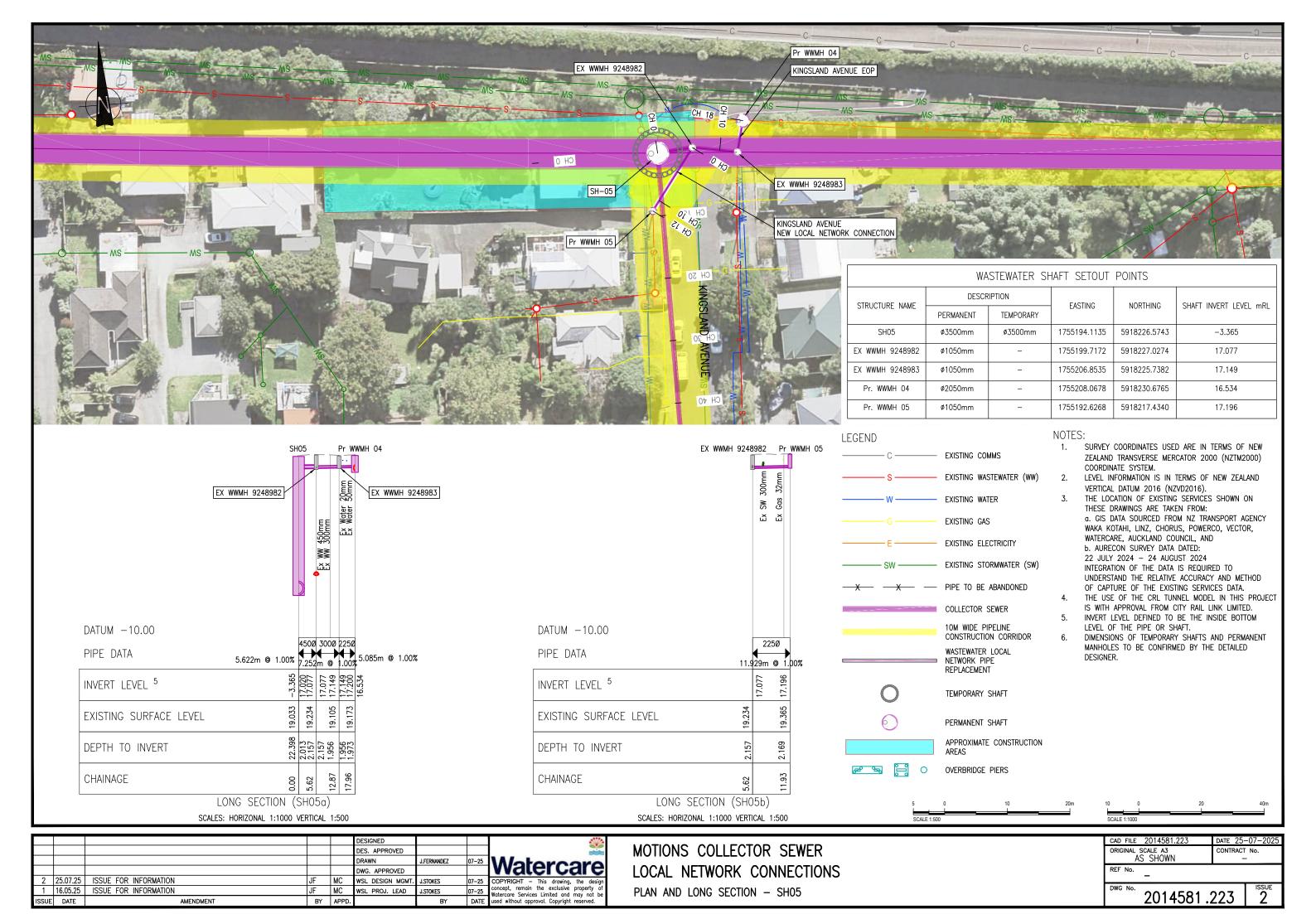


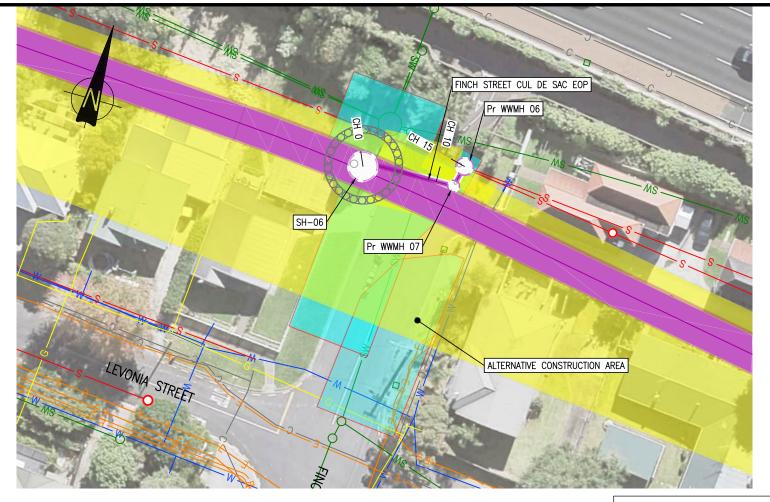
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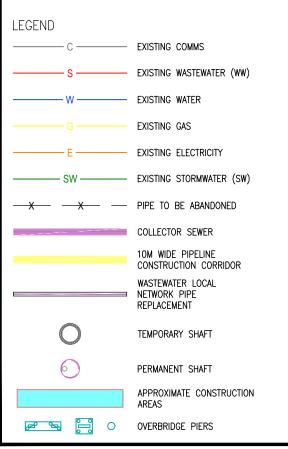
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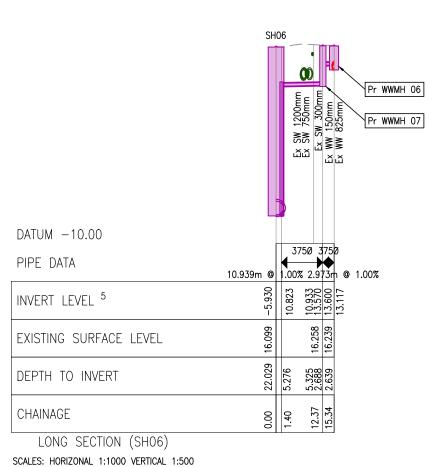
PLAN AND LONG SECTION - SH04

CAD FILE 2014581.222 ORIGINAL SCALE A3 AS SHOWN	CONTRACT	-05-2025 No. -
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2014581 .2	222	ISSUE 1









	WASTEWATER SHAFT SETOUT POINTS												
STRUCTURE NAME	DESCR	IPTION	EASTING	NORTHING	SHAFT INVERT LEVEL mRL								
STRUCTURE NAME	PERMANENT	TEMPORARY	EASTING	NORTHING	SHAFT INVERT LEVEL MIKE								
SH06	ø4000mm	ø6000mm	1754685.2555	5918290.9937	-6.209								
Pr. WWMH 06	ø2300mm	-	1754698.1651	5918294.7054	13.117								
Pr. WWMH 07	ø1500mm	-	1754697.4995	5918291.8080	10.933								

NOTES:

- SURVEY COORDINATES USED ARE IN TERMS OF NEW
 ZEALAND TRANSVERSE MERCATOR 2000 (NZTM2000)
 COORDINATE SYSTEM.
- LEVEL INFORMATION IS IN TERMS OF NEW ZEALAND VERTICAL DATUM 2016 (NZVD2016).
- 3. THE LOCATION OF EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE TAKEN FROM:

 a. GIS DATA SOURCED FROM NZ TRANSPORT AGENCY WAKA KOTAHI, LINZ, CHORUS, POWERCO, VECTOR, WATERCARE, AUCKLAND COUNCIL, AND
 b. AURECON SURVEY DATA DATED:
 22 JULY 2024 24 AUGUST 2024
 INTEGRATION OF THE DATA IS REQUIRED TO UNDERSTAND THE RELATIVE ACCURACY AND METHOD OF CAPTURE OF THE EXISTING SERVICES DATA.
- H. THE USE OF THE CRL TUNNEL MODEL IN THIS PROJECT IS WITH APPROVAL FROM CITY RAIL LINK LIMITED.
- 5. INVERT LEVEL DEFINED TO BE THE INSIDE BOTTOM LEVEL OF THE PIPE OR SHAFT.
- DIMENSIONS OF TEMPORARY SHAFTS AND PERMANENT MANHOLES TO BE CONFIRMED BY THE DETAILED DESIGNER.

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MOTIONS COLLECTOR SEWER
LOCAL NETWORK CONNECTIONS
PLAN AND LONG SECTION - SHO6

DWG No. 2014581.	224	ISSUE 2
REF No.		
ORIGINAL SCALE A3 AS SHOWN	CONTRACT	No.
CAD FILE 2014581.224	DATE 25-	-07-2025





- a. GIS DATA SOURCED FROM NZ TRANSPORT AGENCY WAKA KOTAHI, LINZ, CHORUS, POWERCO, VECTOR, WATERCARE, AUCKLAND COUNCIL, AND b. AURECON SURVEY DATA DATED:
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- DIMENSIONS OF TEMPORARY SHAFTS AND PERMANENT MANHOLES TO BE CONFIRMED BY THE DETAILED DESIGNER.

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STRUCTURE NAME	PERMANENT	TEMPORARY	EASTING	NORTHING	SHAFT INVERT LEVEL mRL		
SH07a	ø3500mm	ø3500mm	1754140.8480	5918437.1513	-8.763		
EX WWMH 9248844	ø1500mm	-	1754321.0830	5918433.1282	11.030		
Pr. WWMH 09	ø1800mm	_	1754313.8992	5918434.5641	10.683		
Pr. WWMH 11	ø3000mm	-	1754320.6458	5918426.2978	9.970		
SH07	ø4000mm	ø9000mm	1754345.5581	5918310.8469	-7.632		
EX WWMH B07023	ø4000mm	-	1754301.7811	5918300.2810	11.022		
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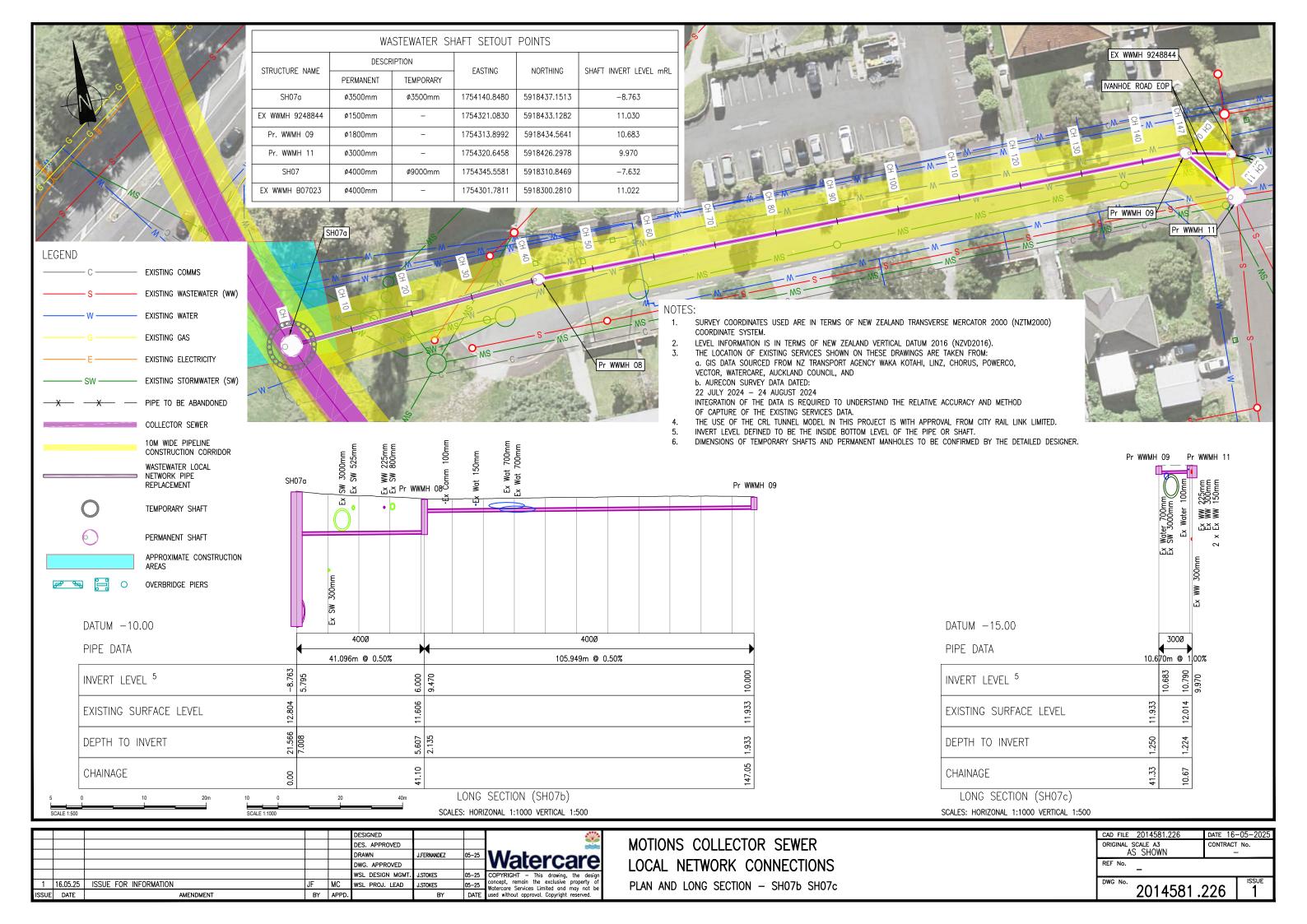
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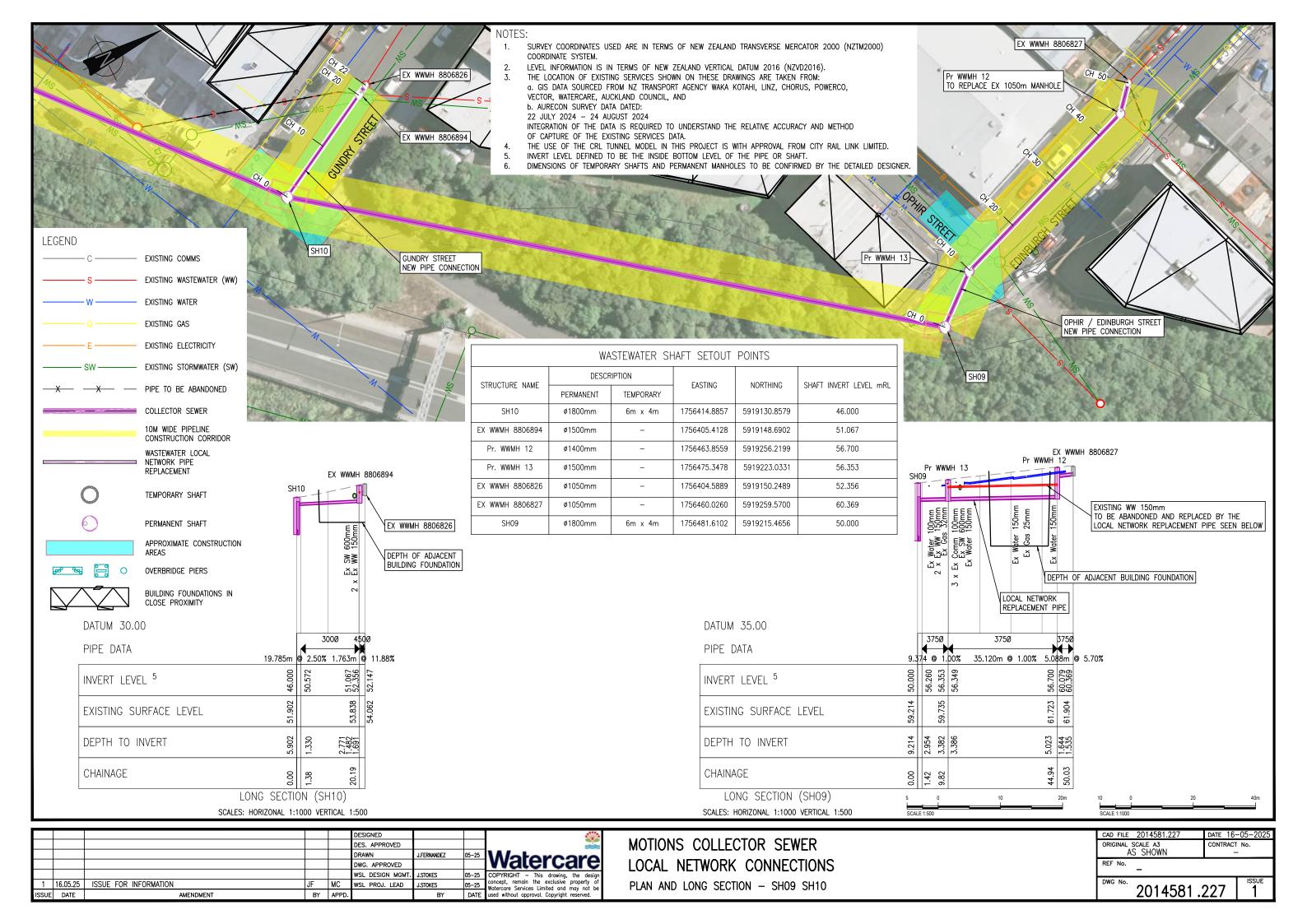
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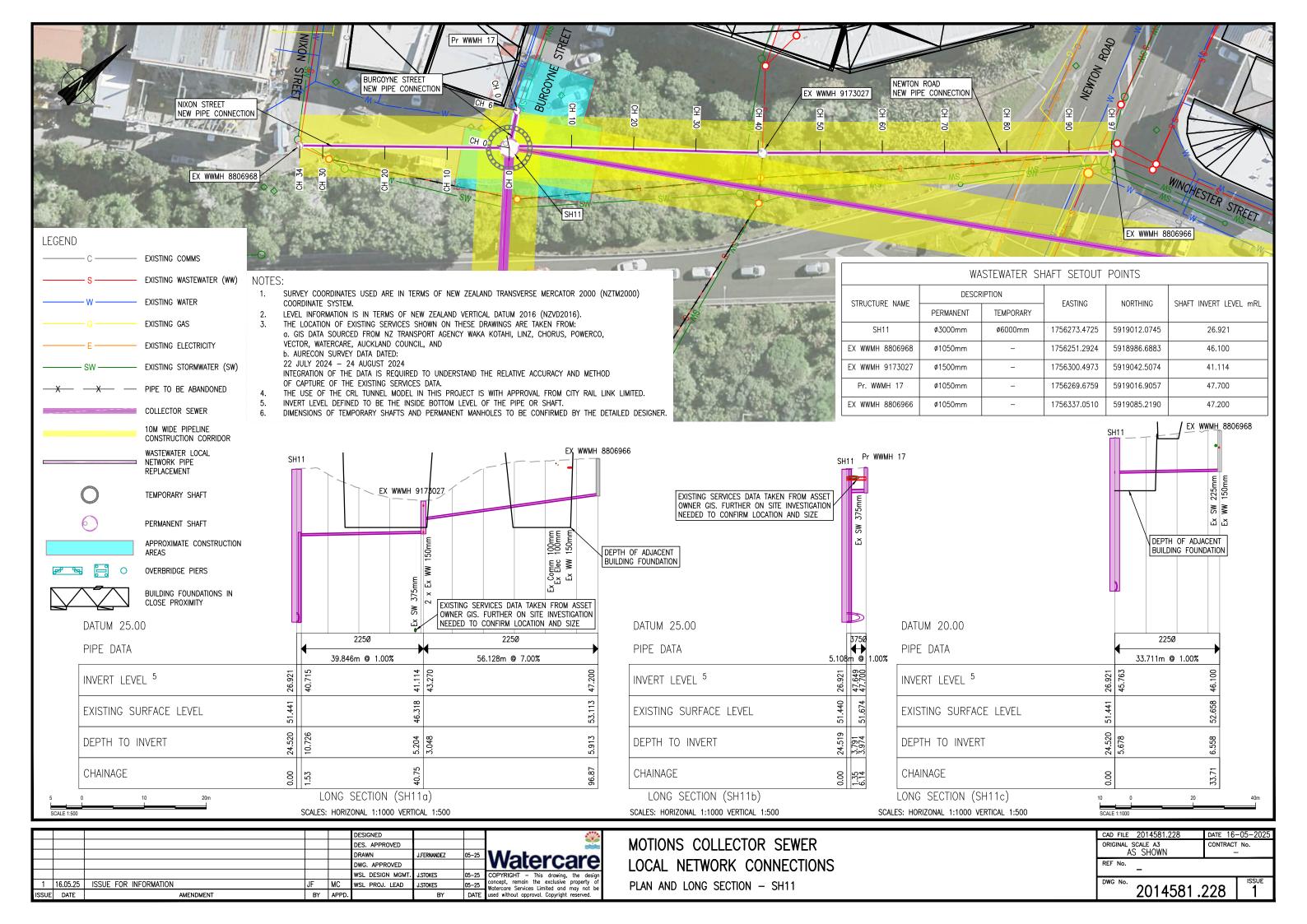
MOTIONS COLLECTOR SEWER LOCAL NETWORK CONNECTIONS

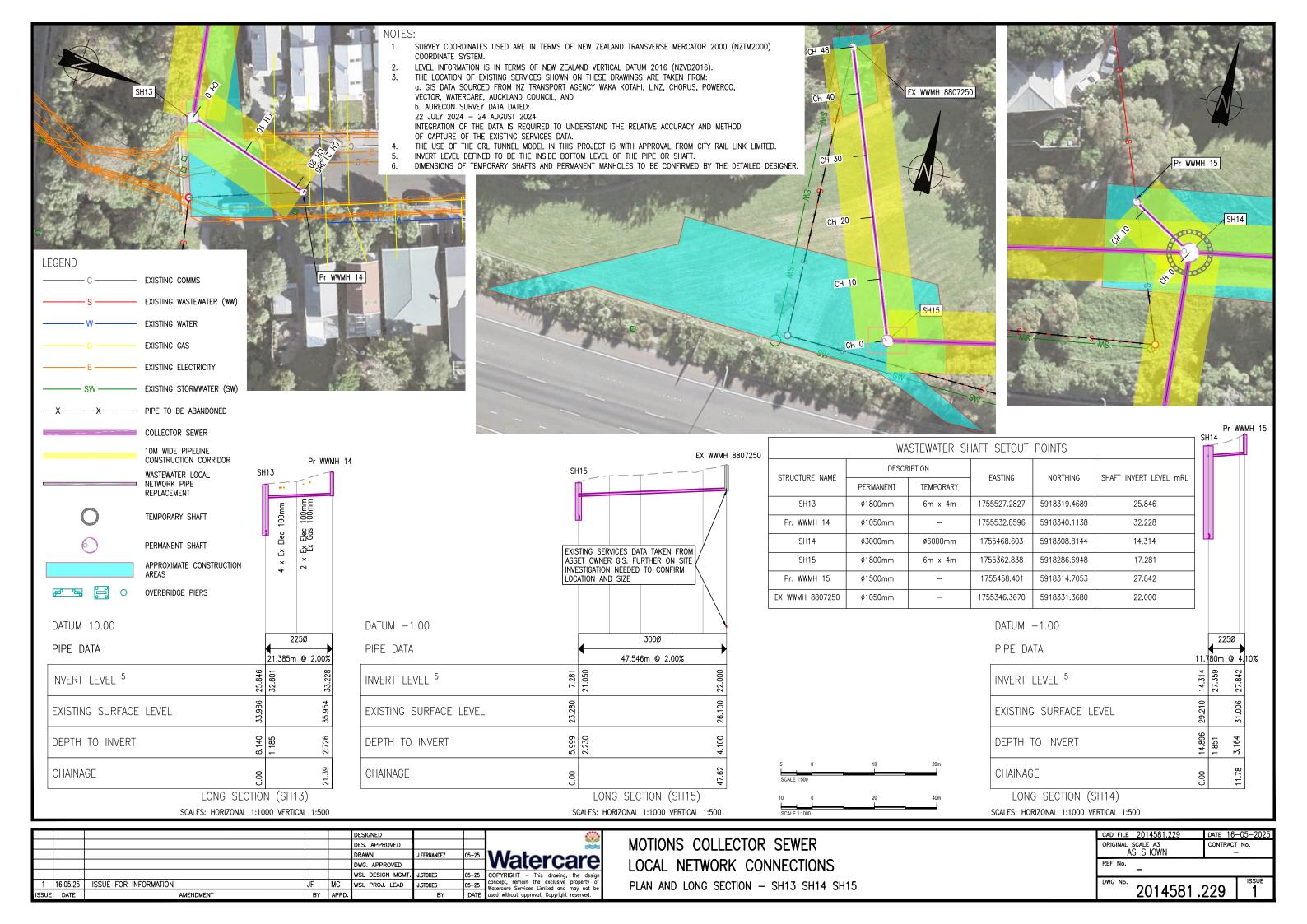
PLAN AND LONG SECTION - SH07a

CAD FILE 2014581.225	DATE 16-	-05-2025
ORIGINAL SCALE A3 AS SHOWN	CONTRACT	No.
REF No.		
DWG No. 2014581.2	225	ISSUE 1









MOTIONS COLLECTOR SEWER DRAWINGS FOR RESOURCE CONSENT

	DRAWING LIST				
DRAWING No.	DRAWING TITLE				
2014581.190	MOTIONS COLLECTOR SEWER - CIVIL - LOCALITY PLAN AND DRAWING INDEX (DN2400 PIPE JACKING OPTION)				
2014581.100	MOTIONS COLLECTOR SEWER - CIVIL - OVERALL PLAN (DN2400 PIPE JACKING OPTION)				
2014581.101	MOTIONS COLLECTOR SEWER - CIVIL - OVERALL LONG SECTION (DN2400 PIPE JACKING OPTION A1 + B1) - SHEET 1				
2014581.102	MOTIONS COLLECTOR SEWER - CIVIL - OVERALL LONG SECTION (DN2400 PIPE JACKING OPTION A2 + B2) - SHEET 2				
2014581.103	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN2400 PIPE JACKING OPTION A1) - SHEET 1				
2014581.104	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN2400 PIPE JACKING OPTION A2) - SHEET 2				
2014581.105	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN2400 PIPE JACKING OPTION A1) - SHEET 3				
2014581.106	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN2400 PIPE JACKING OPTION A2) - SHEET 4				
2014581.107	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN2400 PIPE JACKING OPTION) - SHEET 5				
2014581.108	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN2400 PIPE JACKING OPTION) - SHEET 6				
2014581.109	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN2400 PIPE JACKING OPTION) - SHEET 7				
2014581.110	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN2400 PIPE JACKING OPTION B1 & B2) - SHEET 8				
2014581.112	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN2400 PIPE JACKING) - SHEET 10				
2014581.114	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN2400 PIPE JACKING OPTION B1 & B2) - SHEET 12				
2014581.116	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN3200 PIPE JACKING) - SHEET 14				
2014581.118	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN2400 PIPE JACKING OPTION B1 & B2) - SHEET 16				
2014581.120	MOTIONS COLLECTOR SEWER - CIVIL - PLAN (DN2400 PIPE JACKING OPTION B1 & B2) - SHEET 18				
2014581.122	MOTIONS COLLECTOR SEWER - CIVIL - BRANCH PLAN AND LONG SECTION - SHEET 1				
2014581.123	MOTIONS COLLECTOR SEWER - CIVIL - BRANCH PLAN AND LONG SECTION - SHEET 2				
2014581.124	MOTIONS COLLECTOR SEWER - CIVIL - BRANCH PLAN AND LONG SECTION (DN2400 PIPE JACKING OPTION B1) - SHEET 3				
2014581.125	MOTIONS COLLECTOR SEWER - CIVIL - BRANCH PLAN AND LONG SECTION (DN2400 PIPE JACKING OPTION B2) - SHEET 4				
2014581.126	MOTIONS COLLECTOR SEWER - CIVIL - BRANCH PLAN AND LONG SECTION (DN2400 PIPE JACKING OPTION B1) - SHEET 5				
2014581.127	MOTIONS COLLECTOR SEWER - CIVIL - BRANCH PLAN AND LONG SECTION (DN2400 PIPE JACKING OPTION B2) - SHEET 6				
2014581.128	MOTIONS COLLECTOR SEWER - CIVIL - BRANCH PLAN AND LONG SECTION - SHEET 7				
2014581.129	MOTIONS COLLECTOR SEWER - CIVIL - SH-CRL CONNECTION - PLAN AND LONG SECTION				
2014581.130	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH01 B1				
2014581.131	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH01 B2				
2014581.132	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH02 B1				
2014581.133	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH02 B2				
2014581.134	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH03 B1				
2014581.135	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SHO3 B2				
2014581.136	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SHO4				
2014581.137	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH05				

2014581.138	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SHO6
2014581.139	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH07 SH07a
2014581.140	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SHO9 SH10
2014581.141	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH11
2014581.142	MOTIONS COLLECTOR SEWER - LOCAL NETWORK CONNECTIONS - PLAN AND LONG SECTION - SH13 SH14 SH15

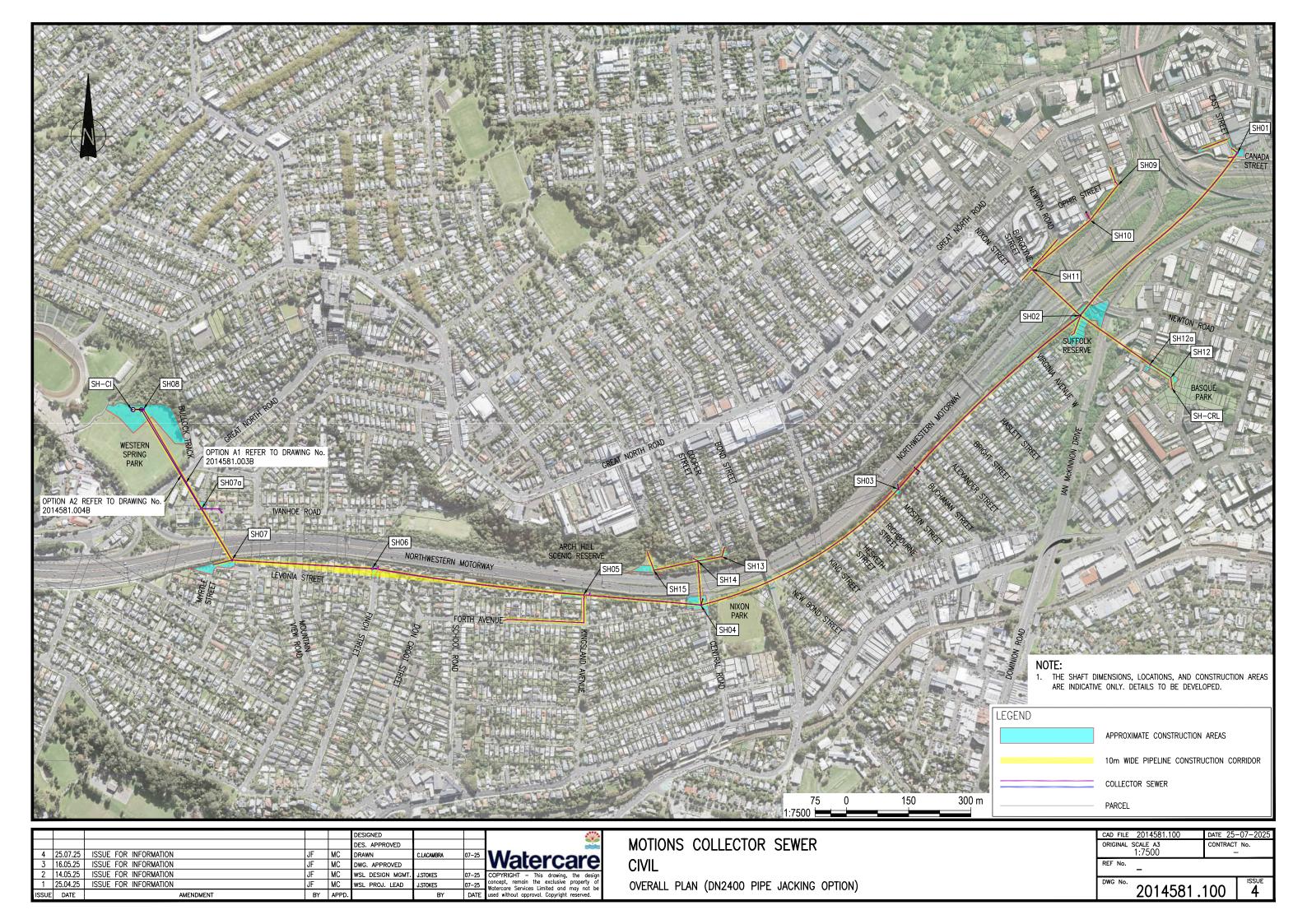


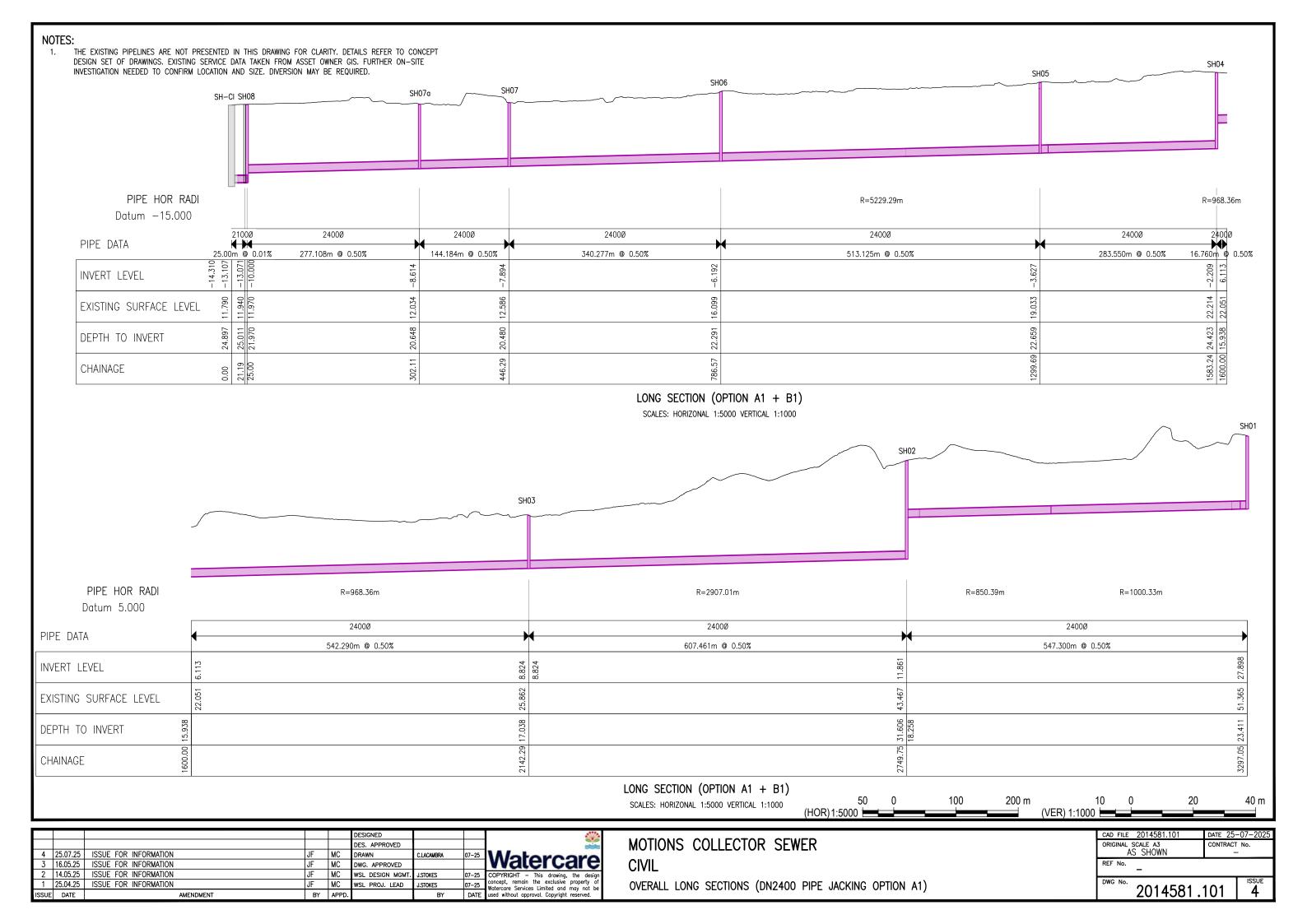
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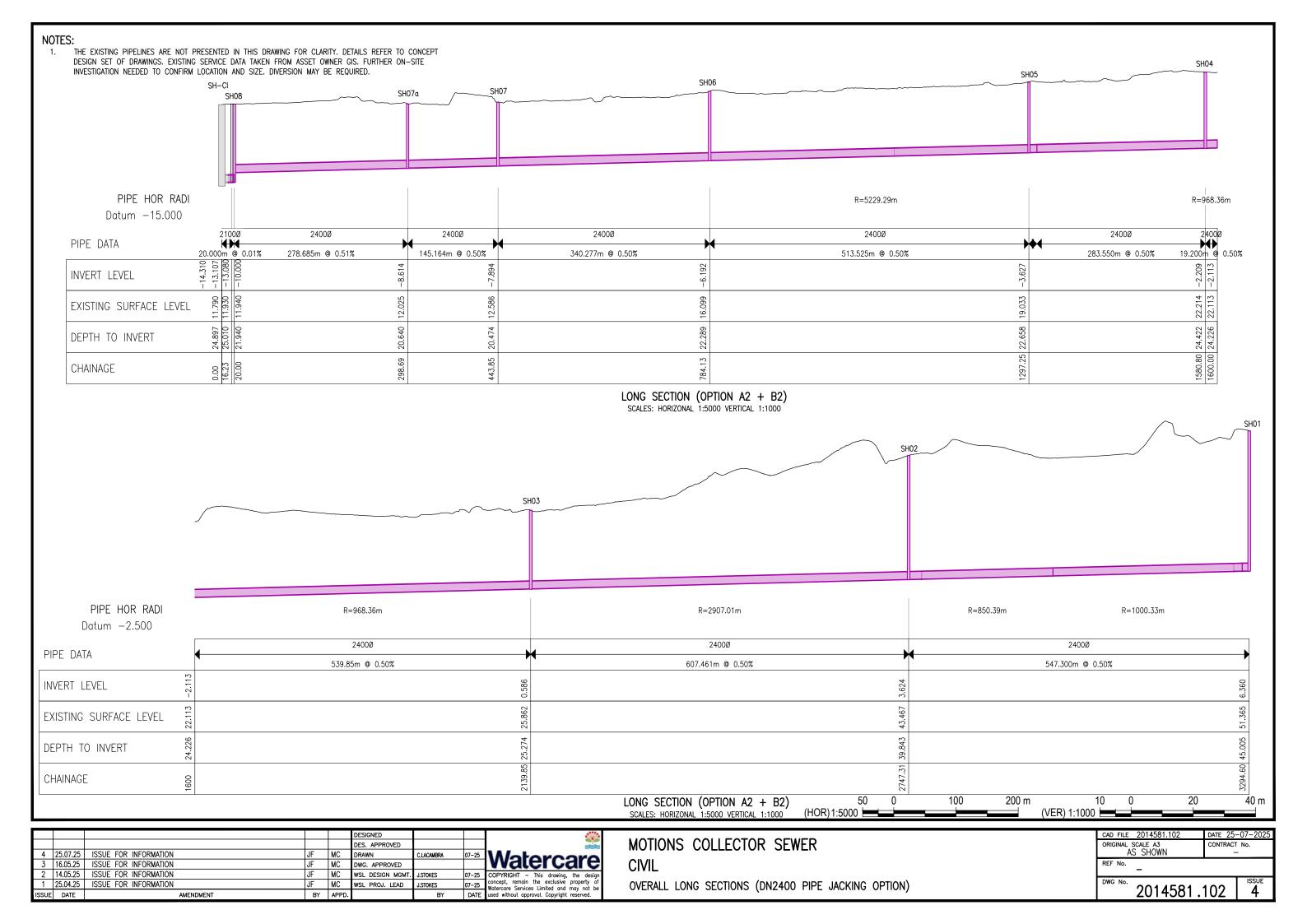
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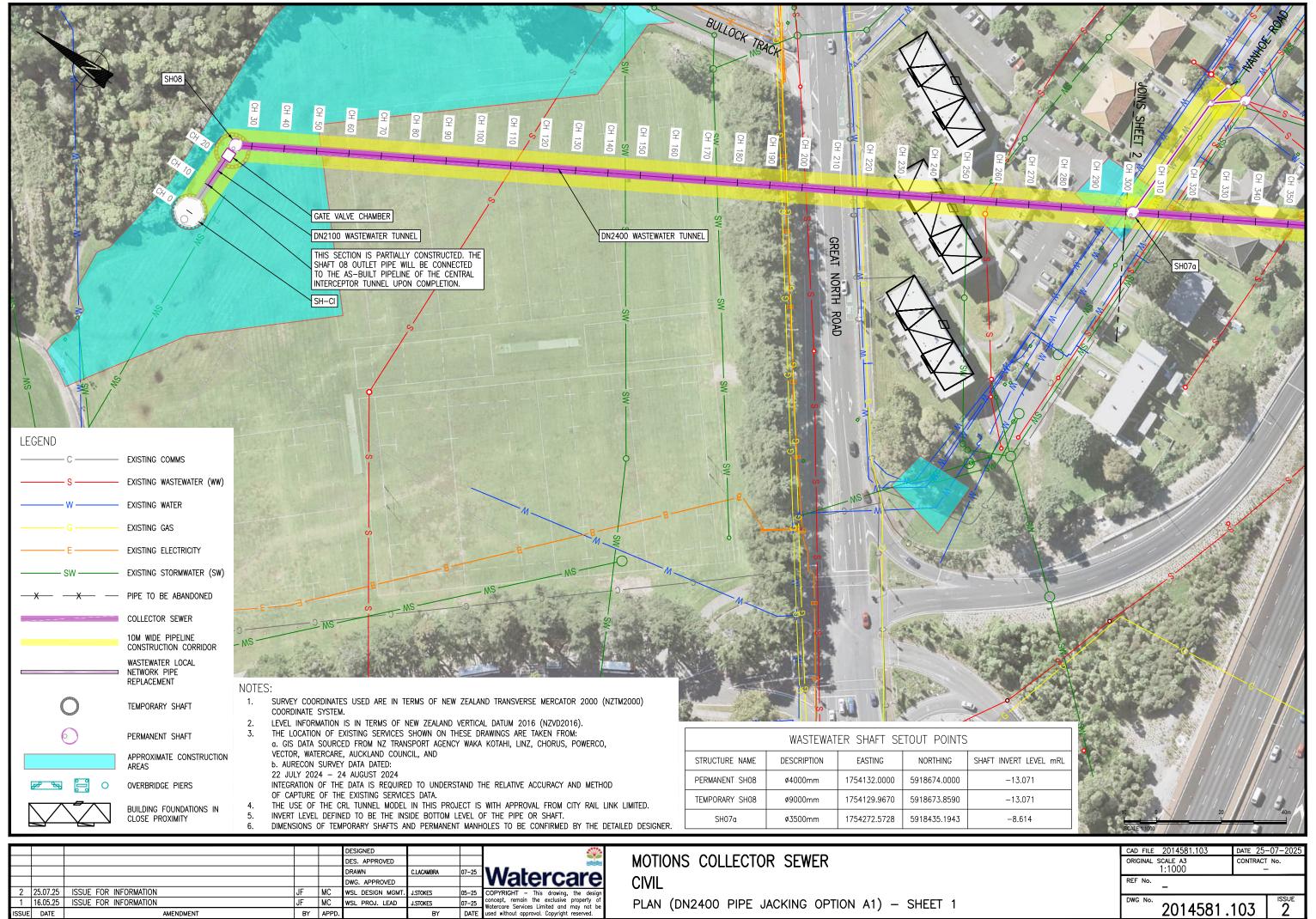
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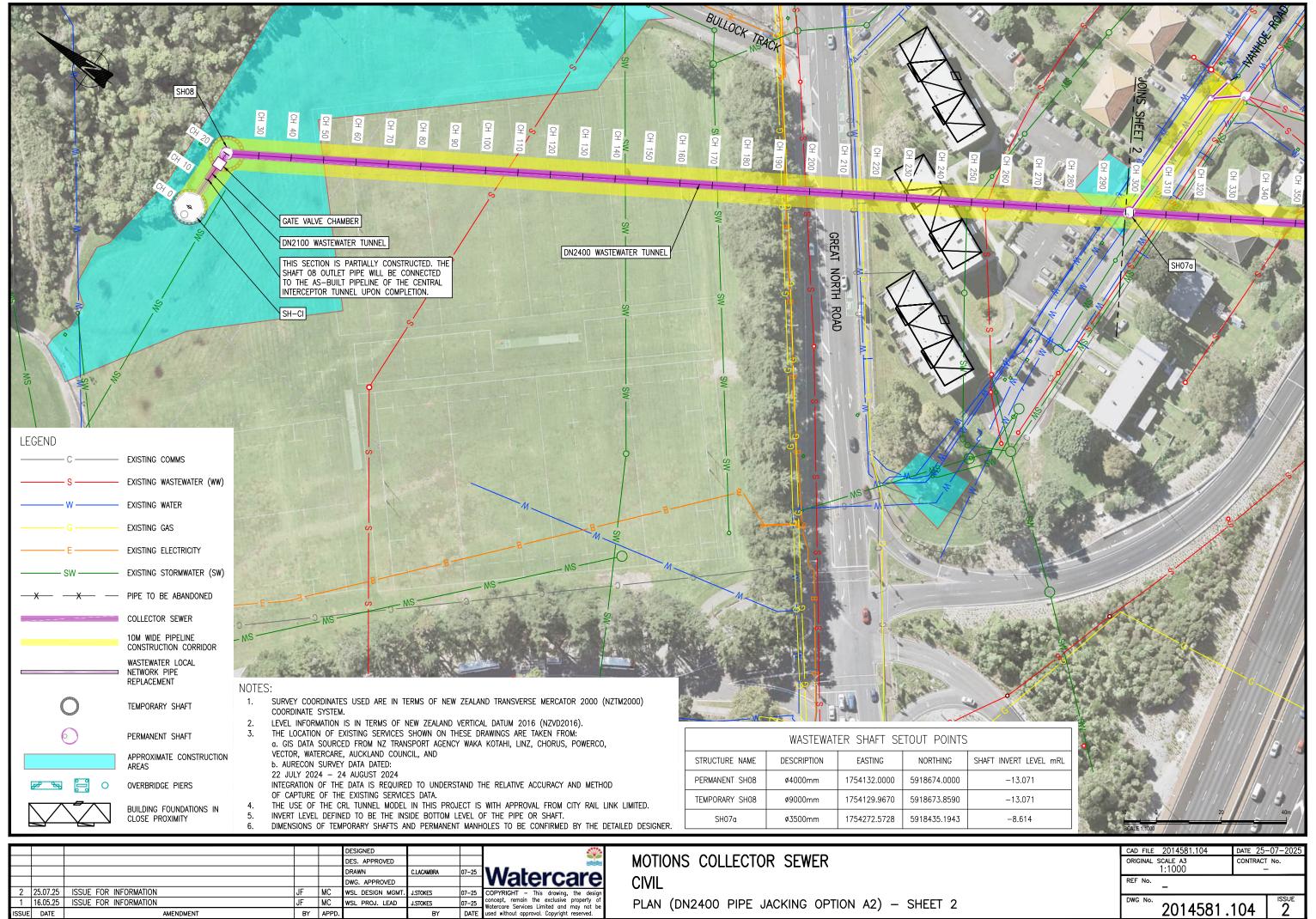


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PLAN (DN2400 PIPE JACKING OPTION A1) - SHEET 1

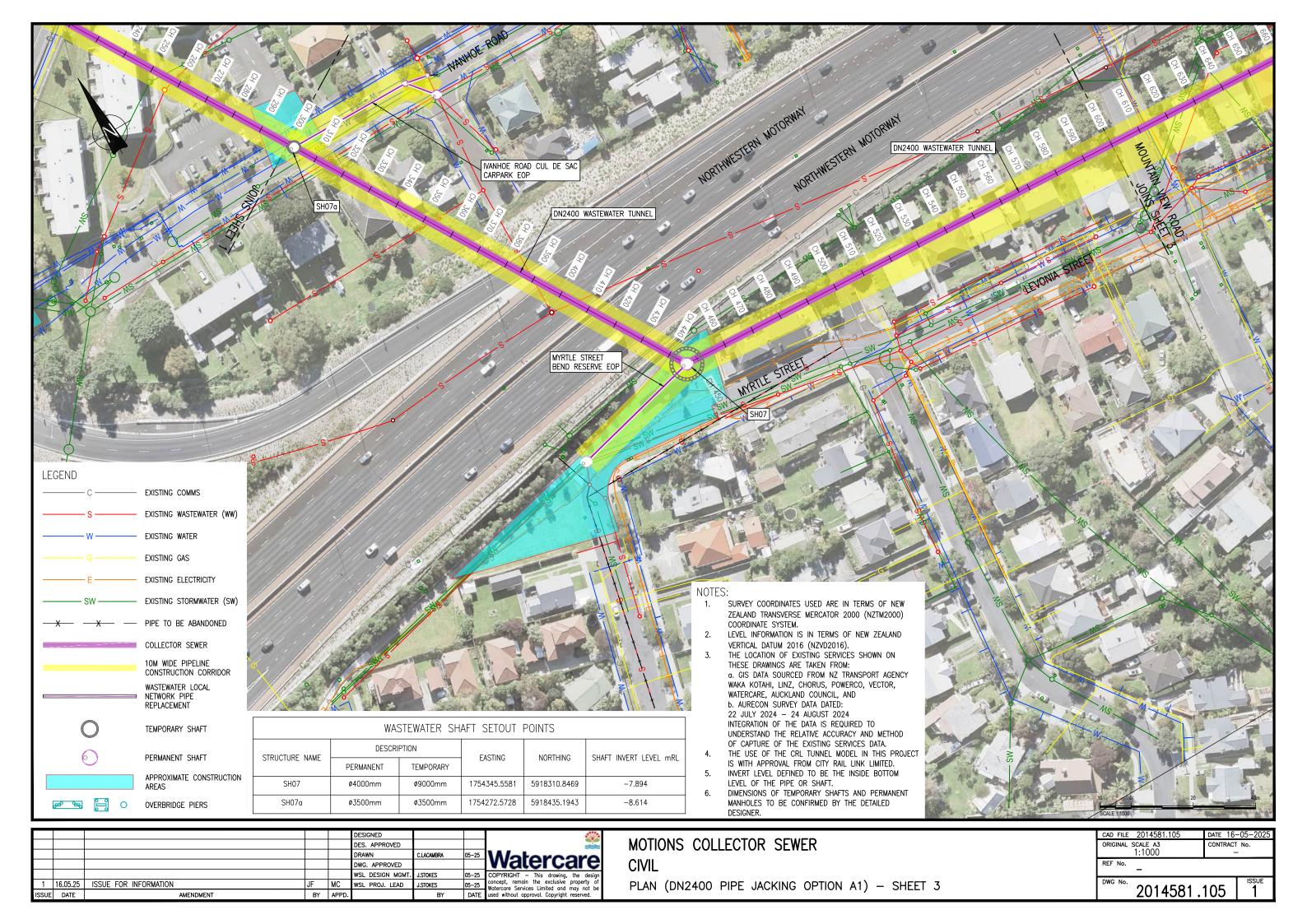
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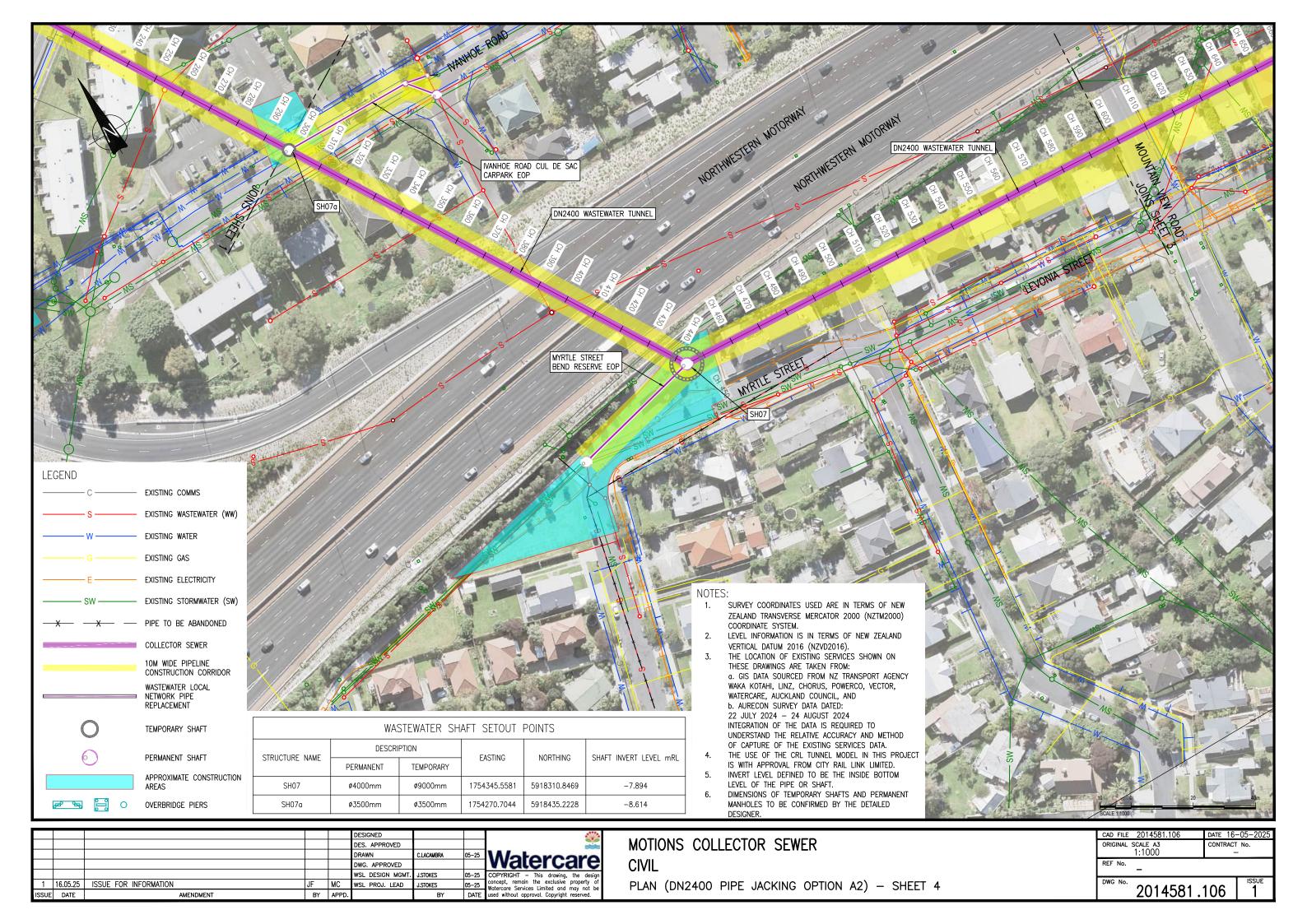


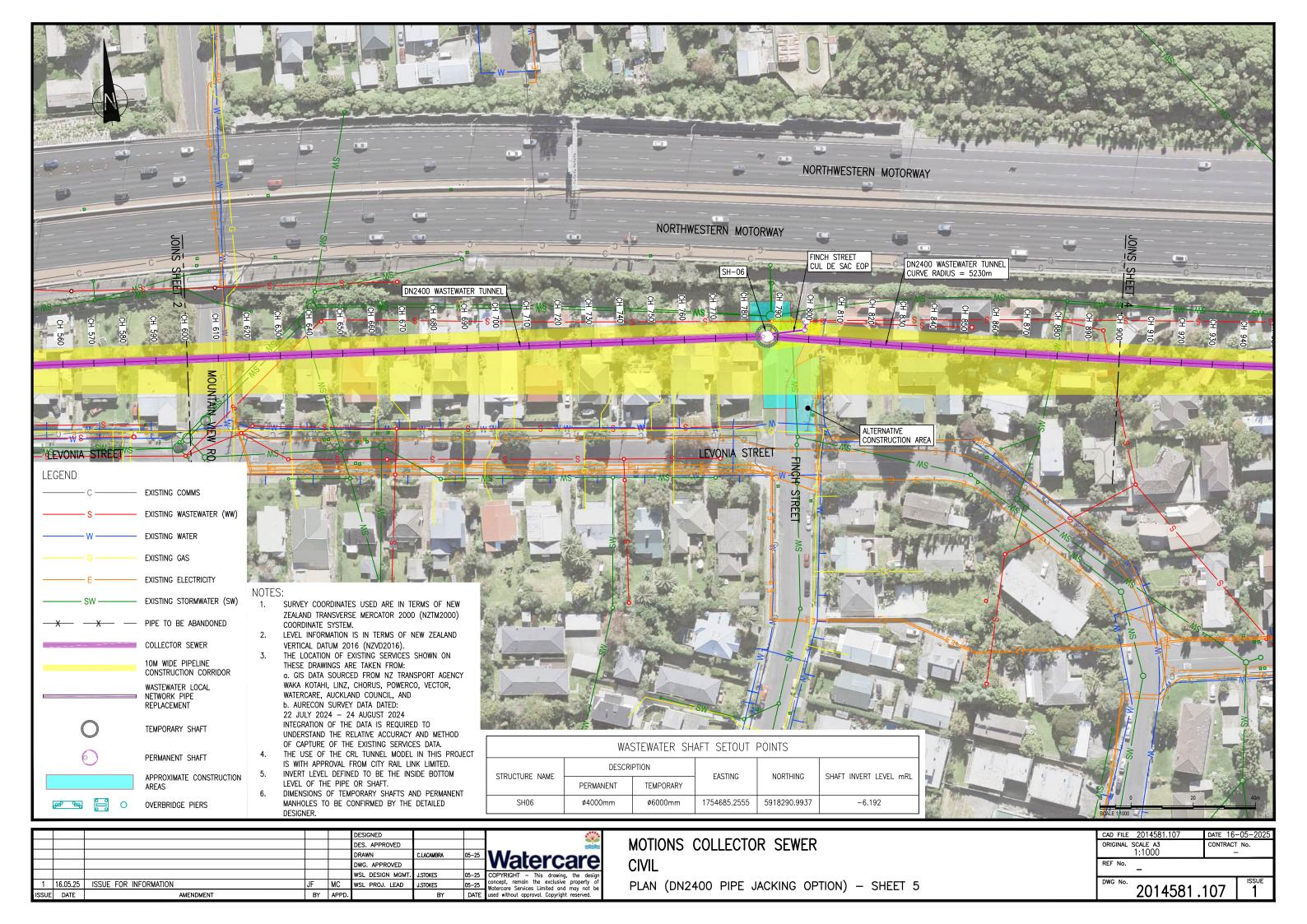
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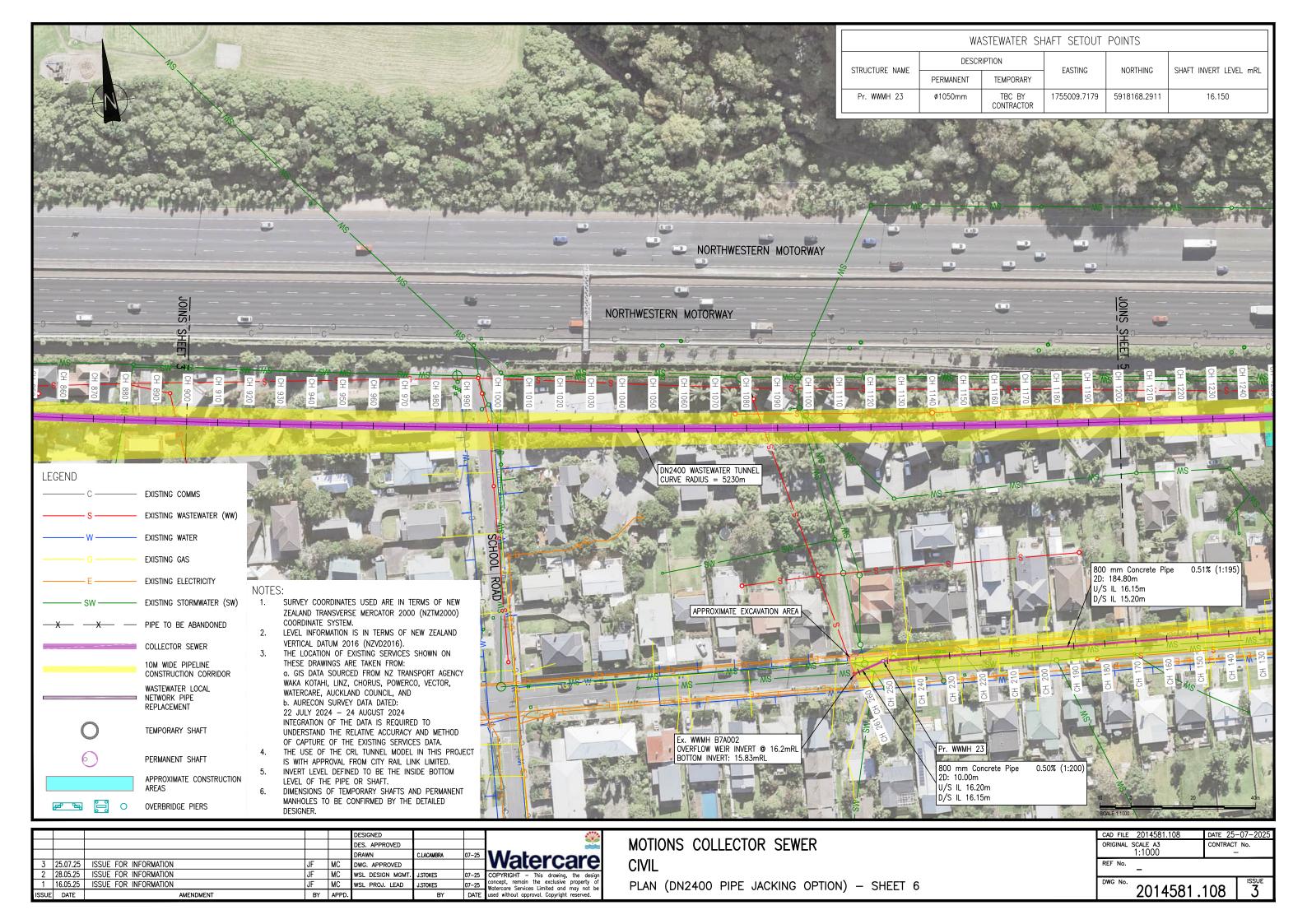
PLAN (DN2400 PIPE JACKING OPTION A2) - SHEET 2

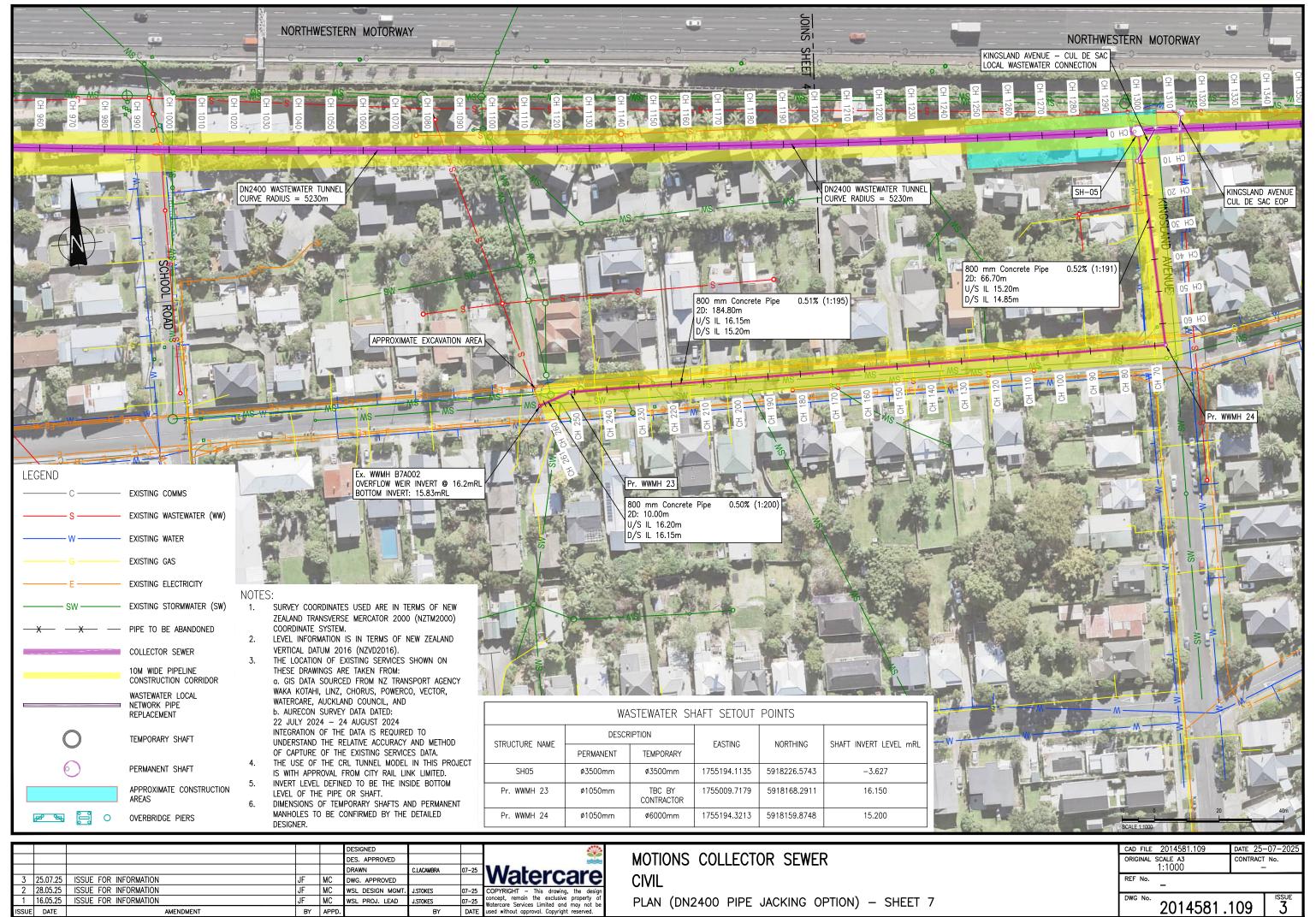
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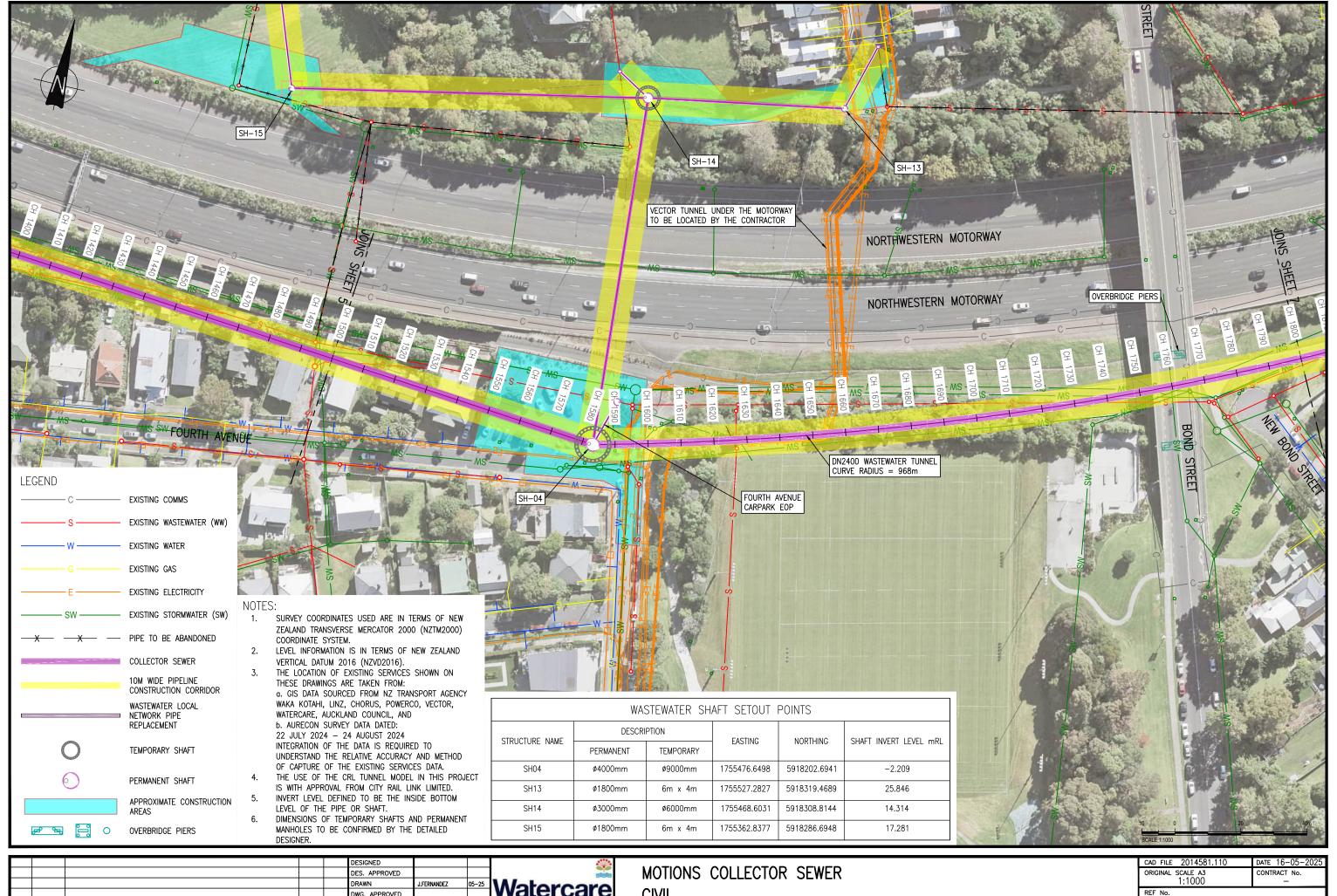




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PLAN (DN2400 PIPE JACKING OPTION) - SHEET 7

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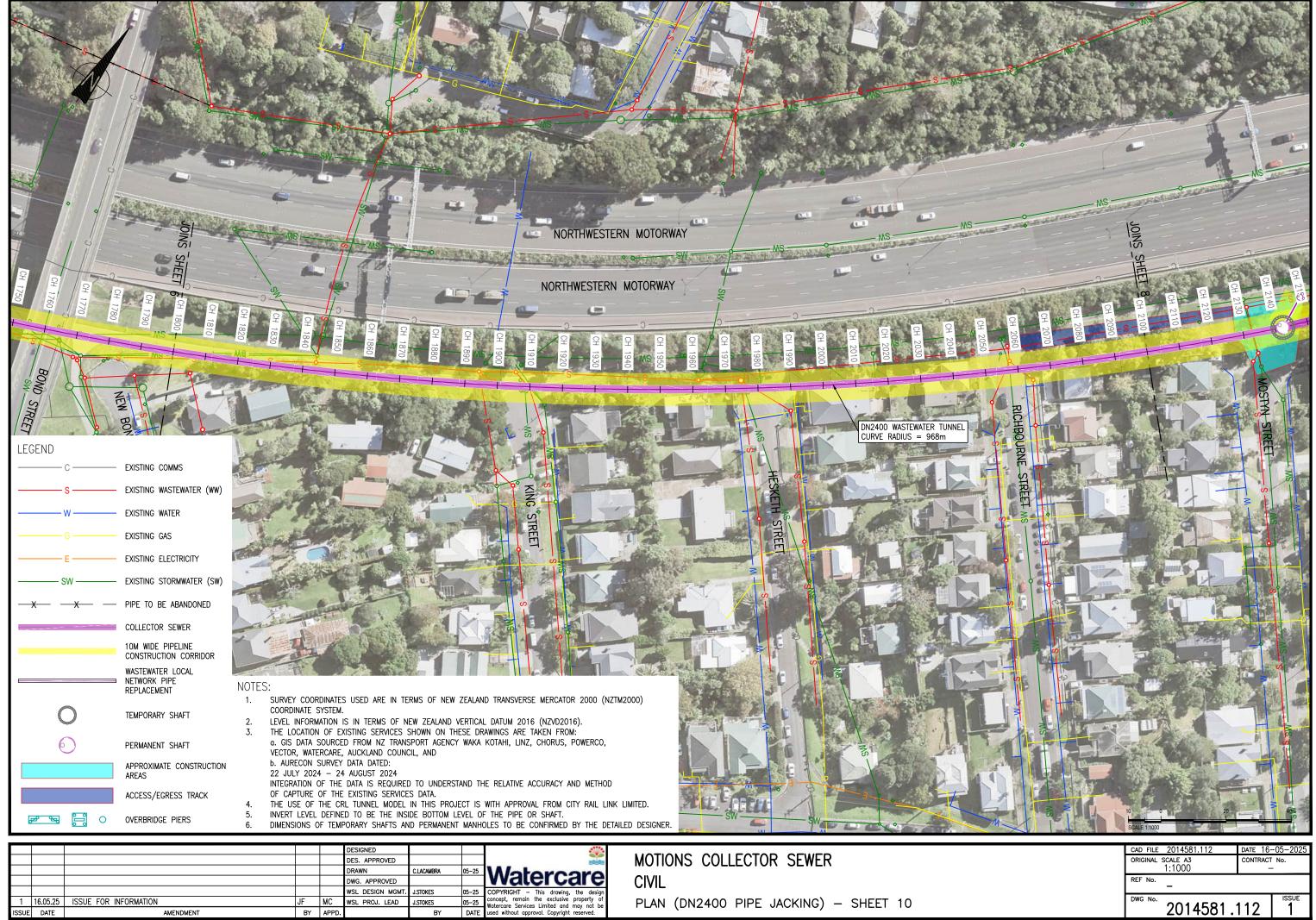
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PLAN (DN2400 PIPE JACKING OPTION B1 & B2) - SHEET 8

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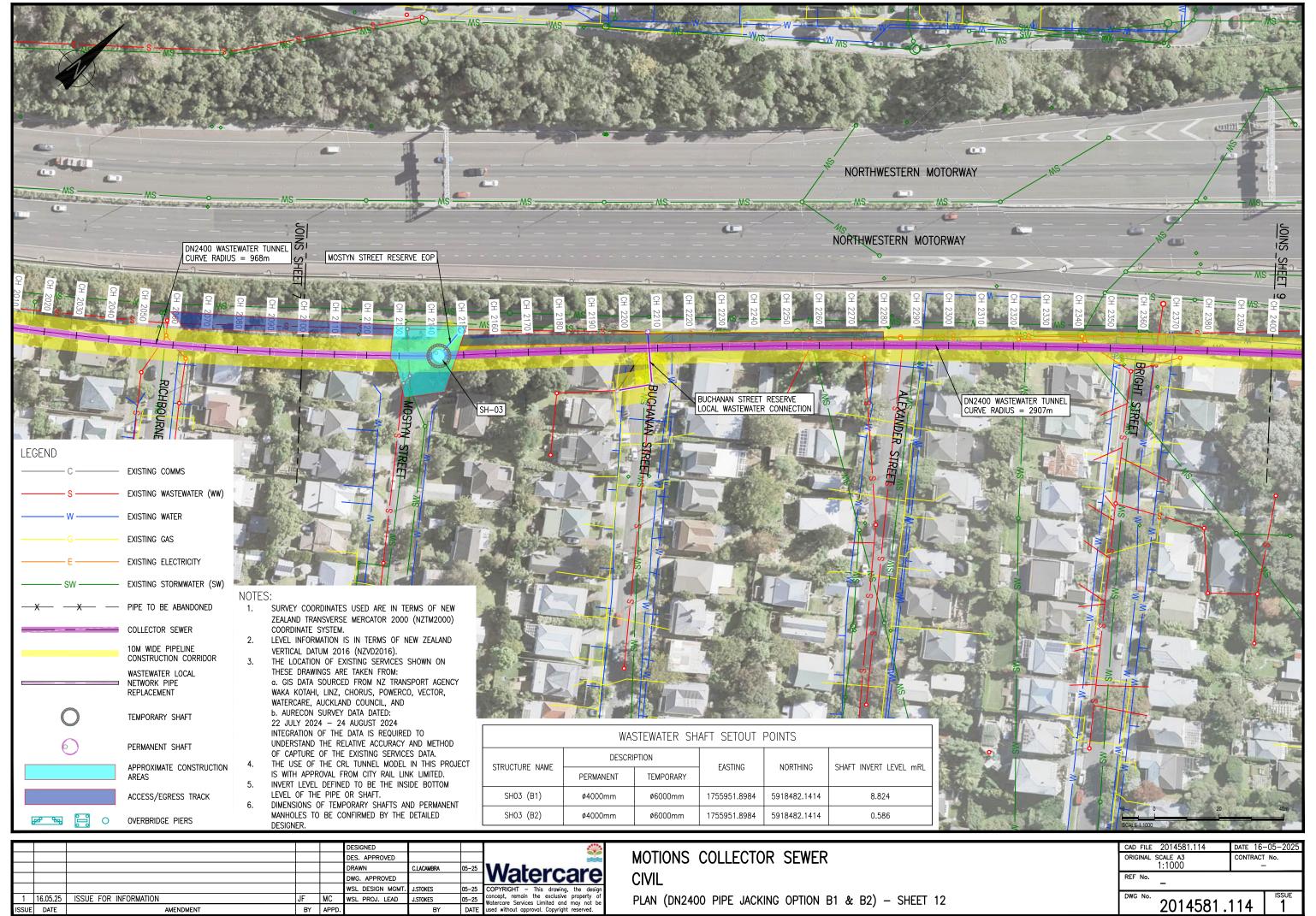


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PLAN (DN2400 PIPE JACKING) - SHEET 10

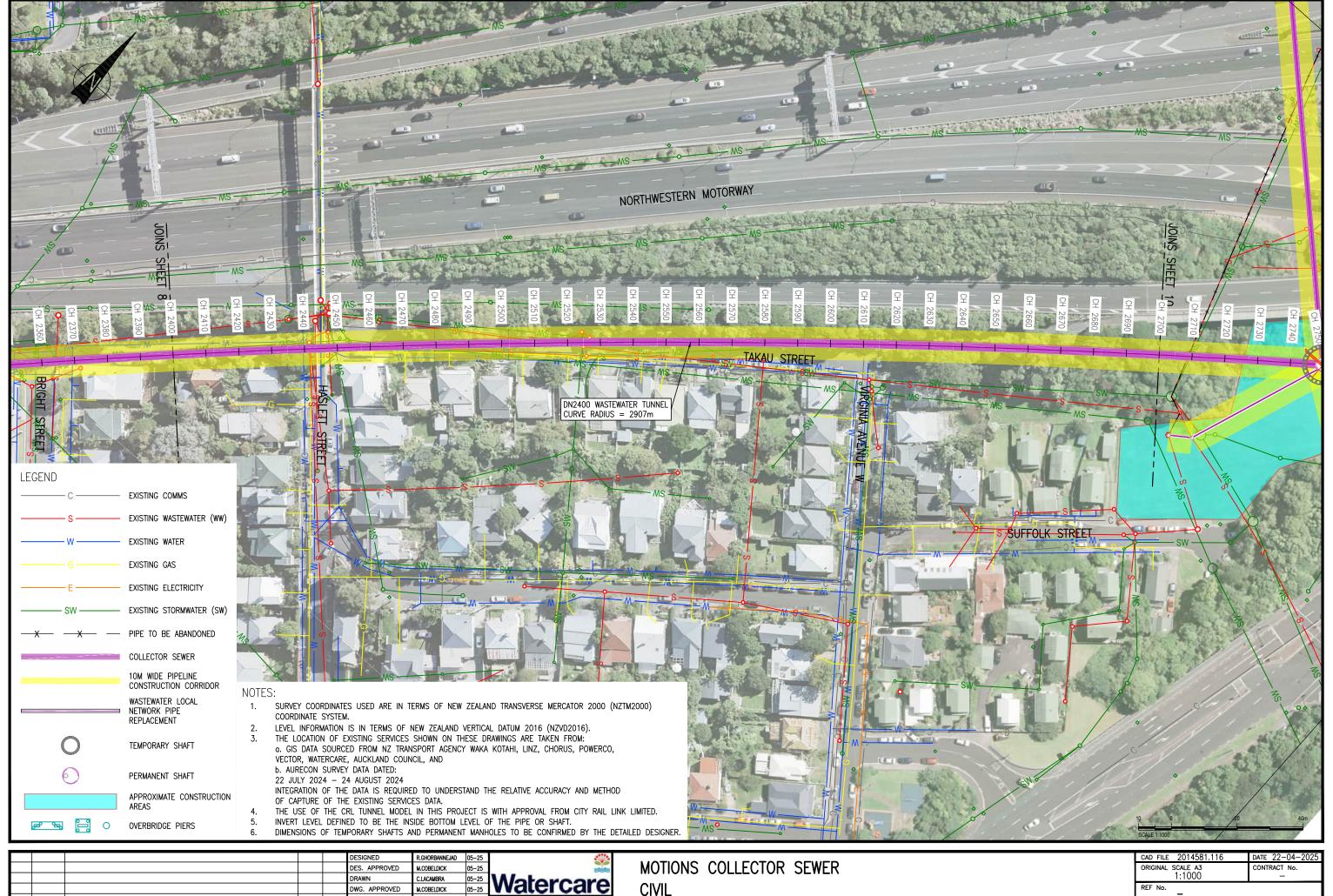
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PLAN (DN2400 PIPE JACKING OPTION B1 & B2) - SHEET 12

DWG No. 2014581.	114	ISSUE
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CAD FILE 2014581.114	DATE 16-	-05-2025

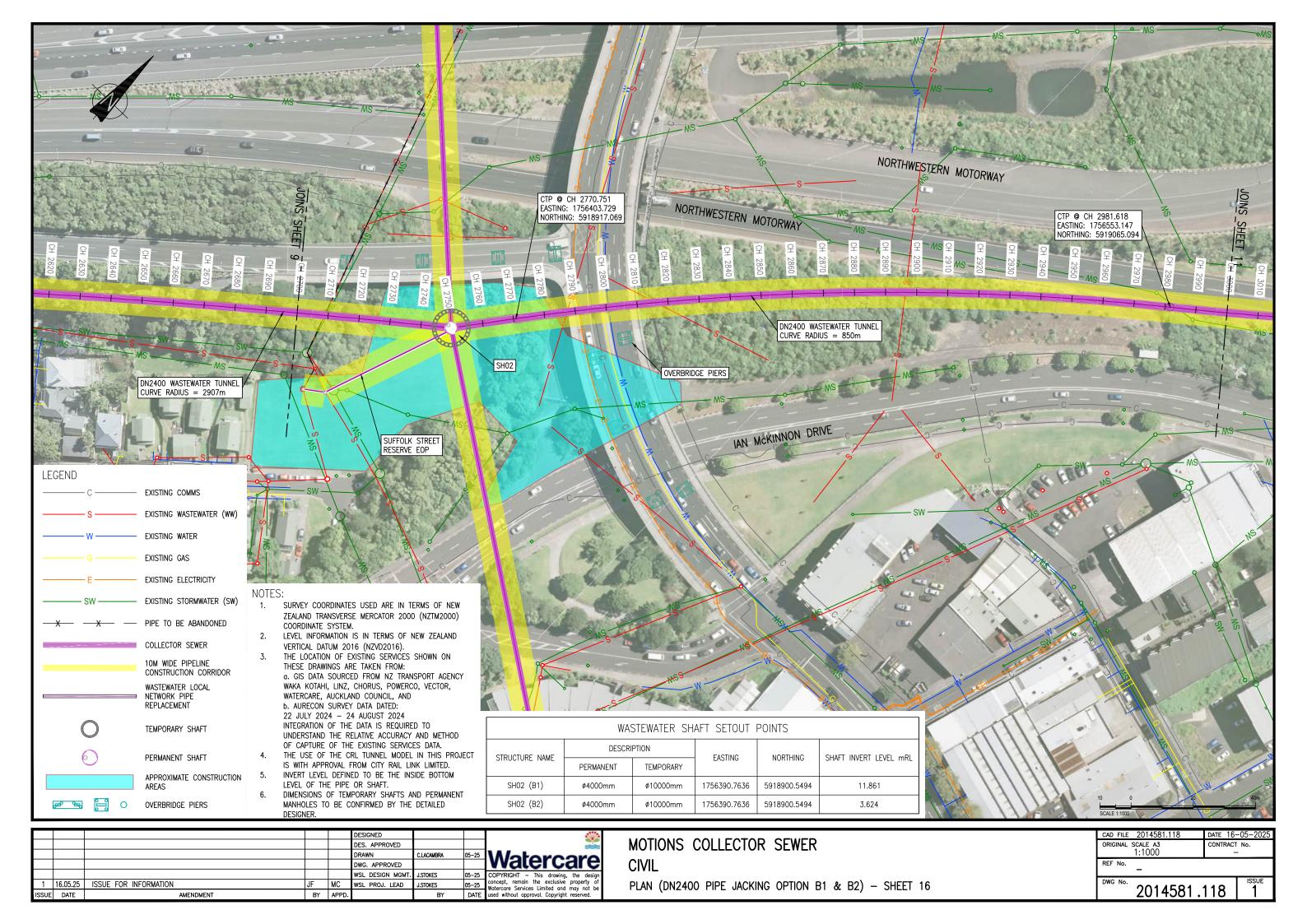


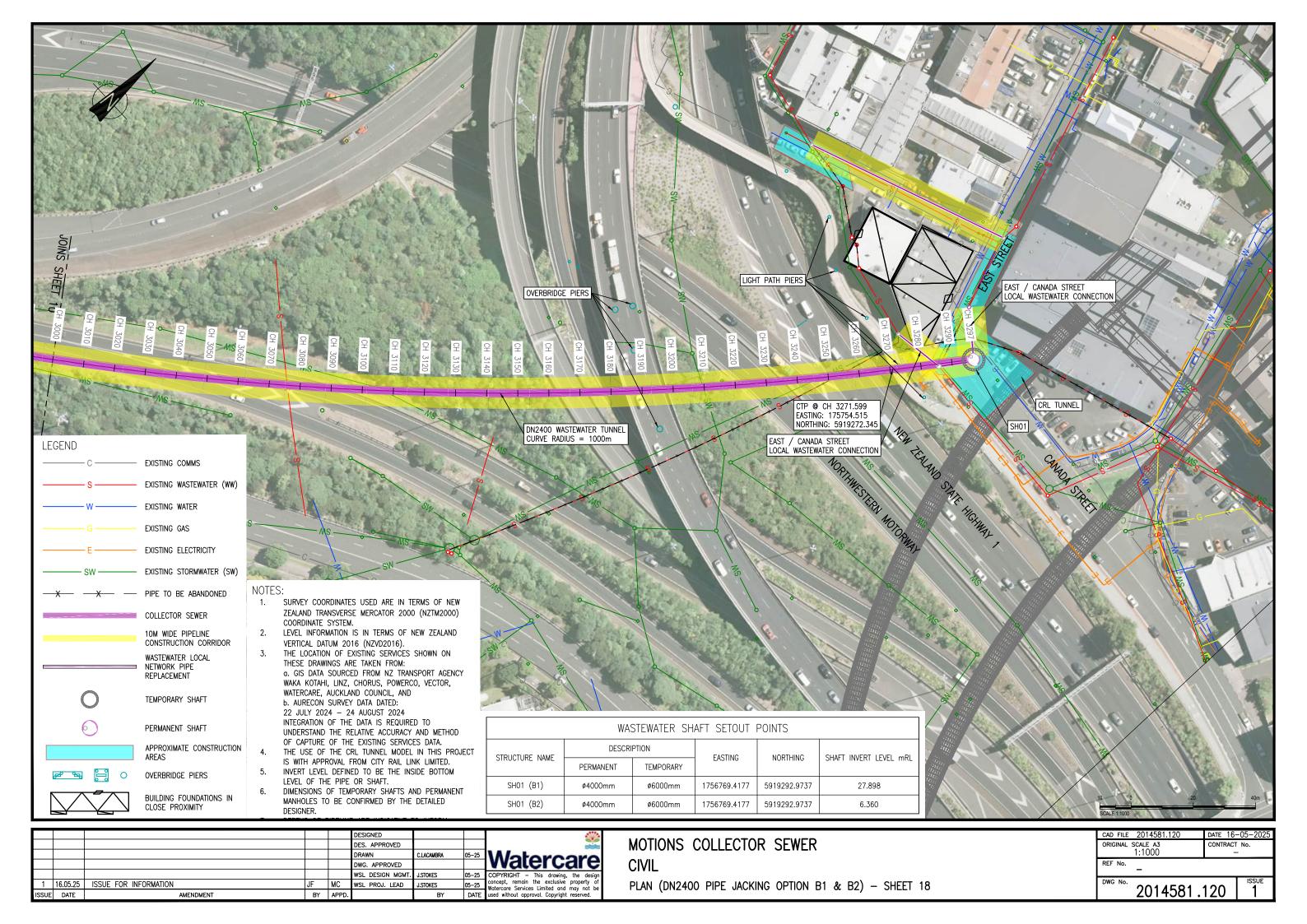
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PLAN AND LONG SECTION (DN2400 PIPE JACKING) - SHEET 14

CAD FILE 2014581.116	DATE 22-	-04-2025
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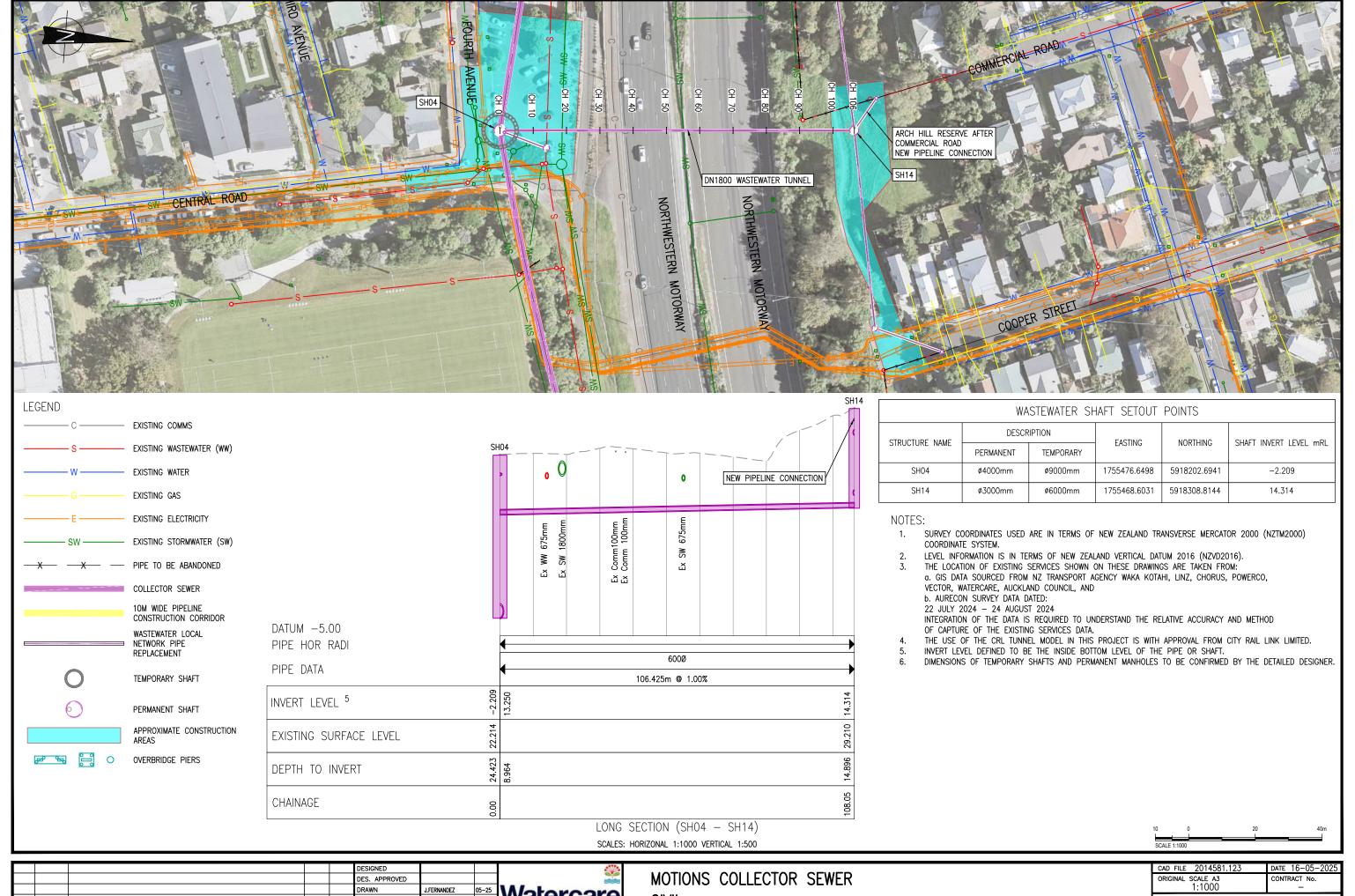
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SCALES: HORIZONAL 1:1000 VERTICAL 1:500

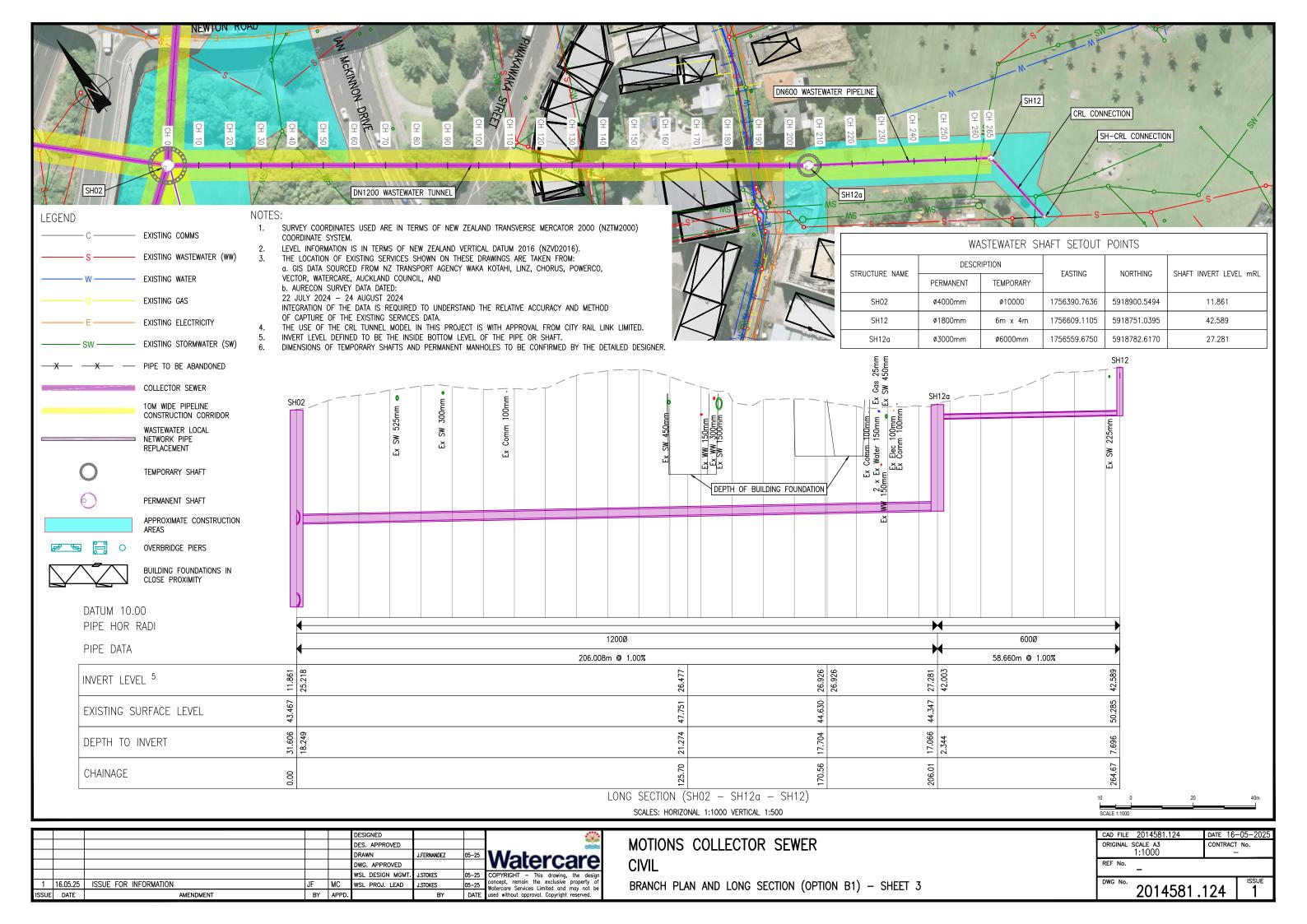
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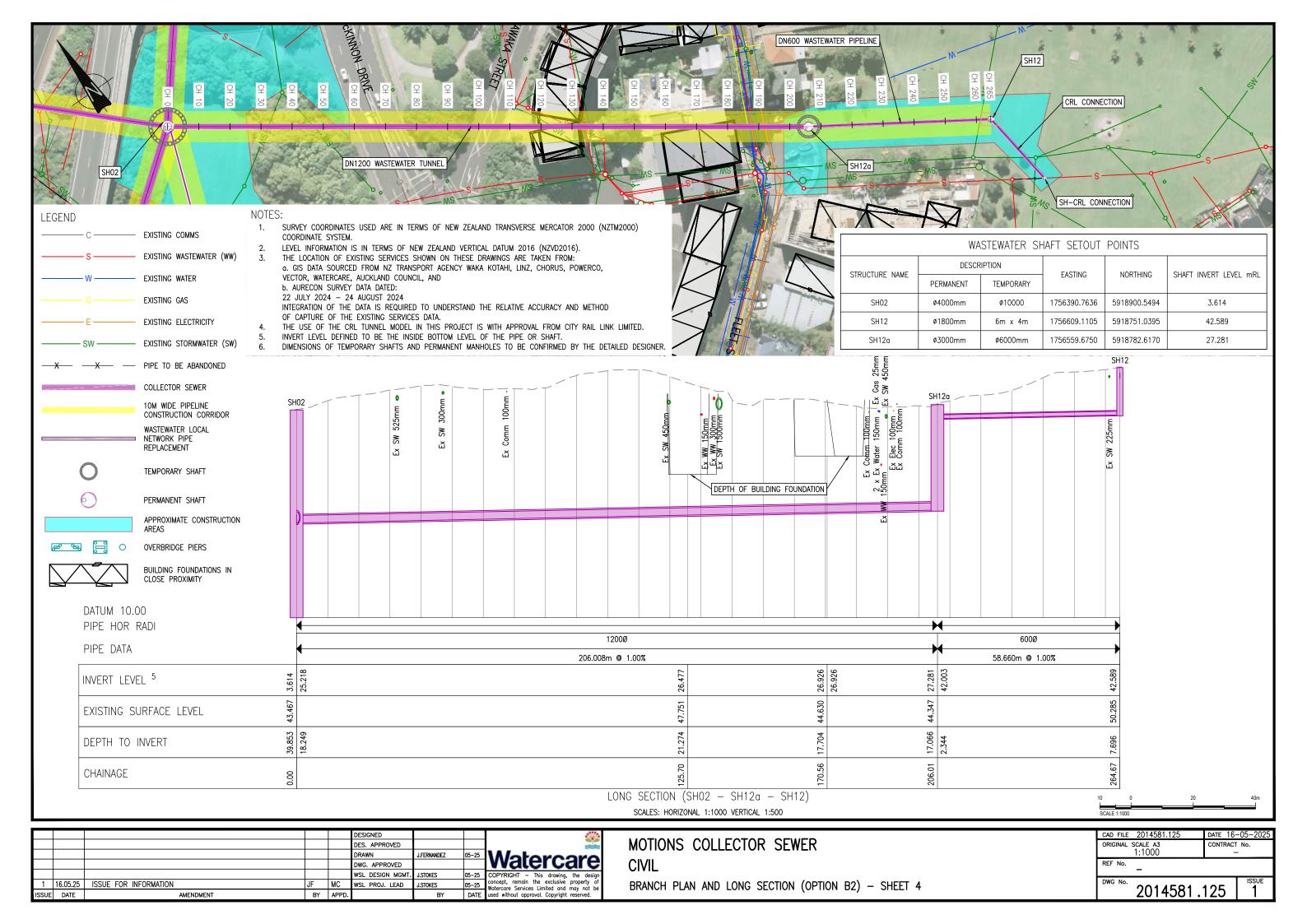
BRANCH PLAN AND LONG SECTION — SHEET 1

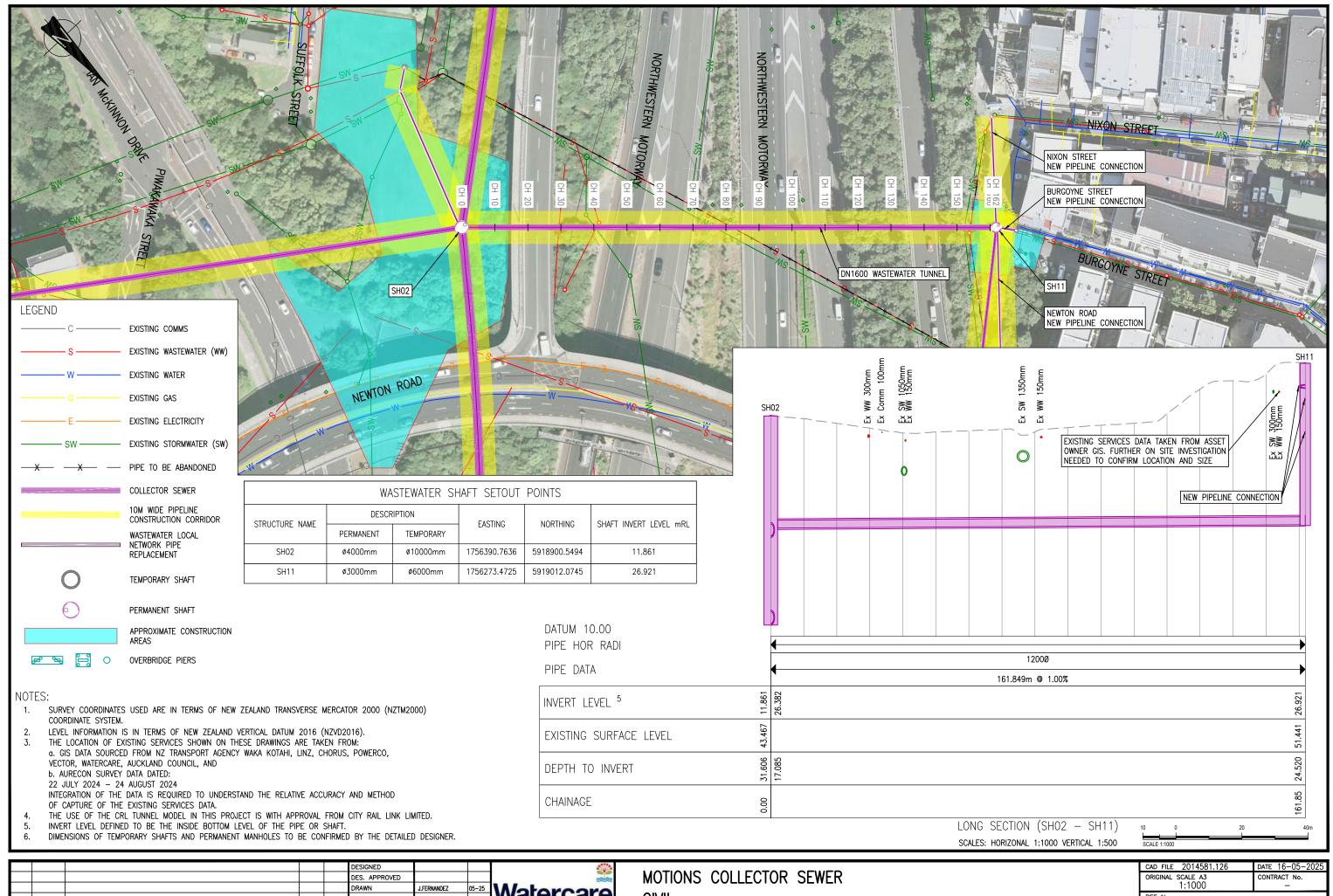
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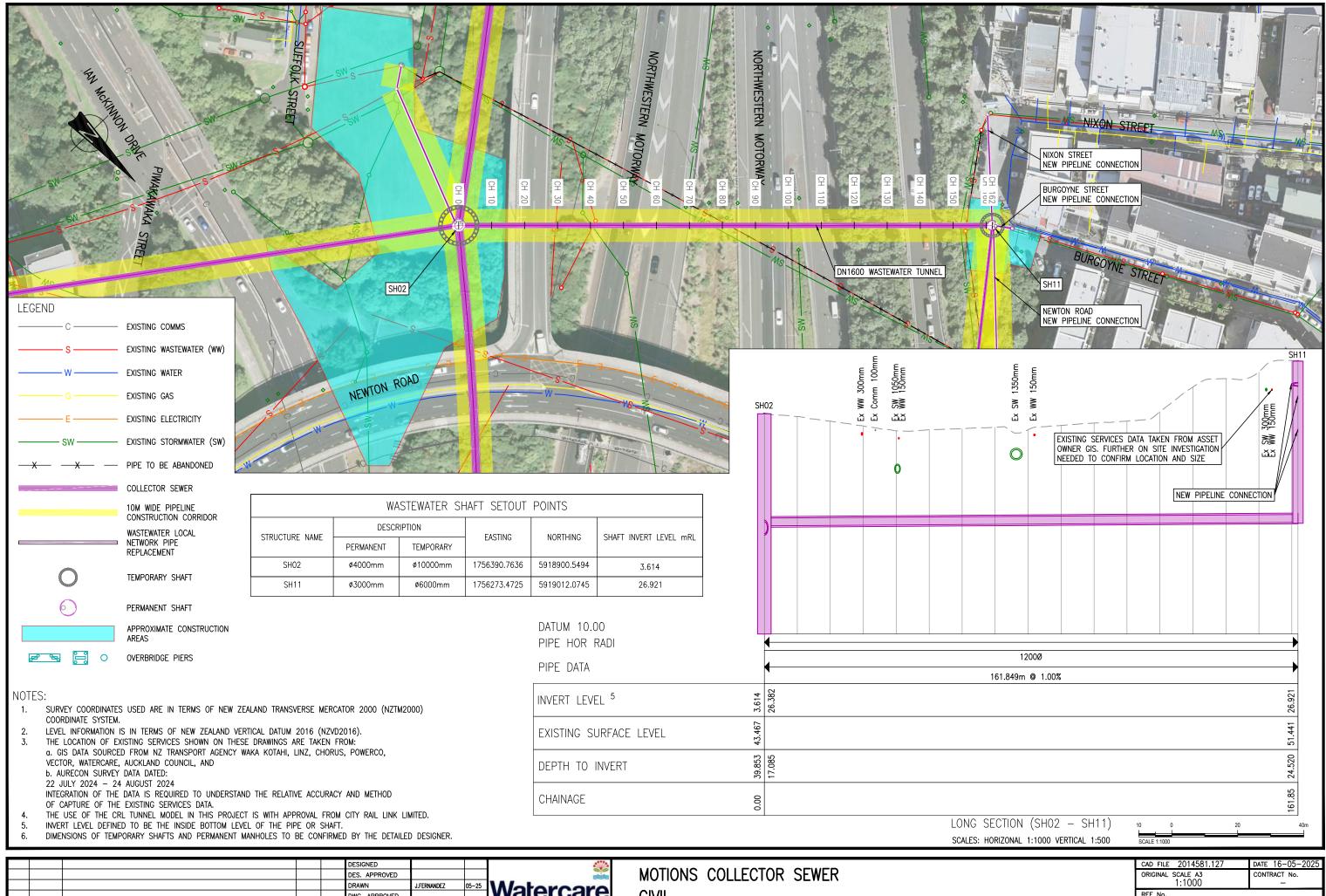
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BRANCH PLAN AND LONG SECTION (OPTION B1) - SHEET 5

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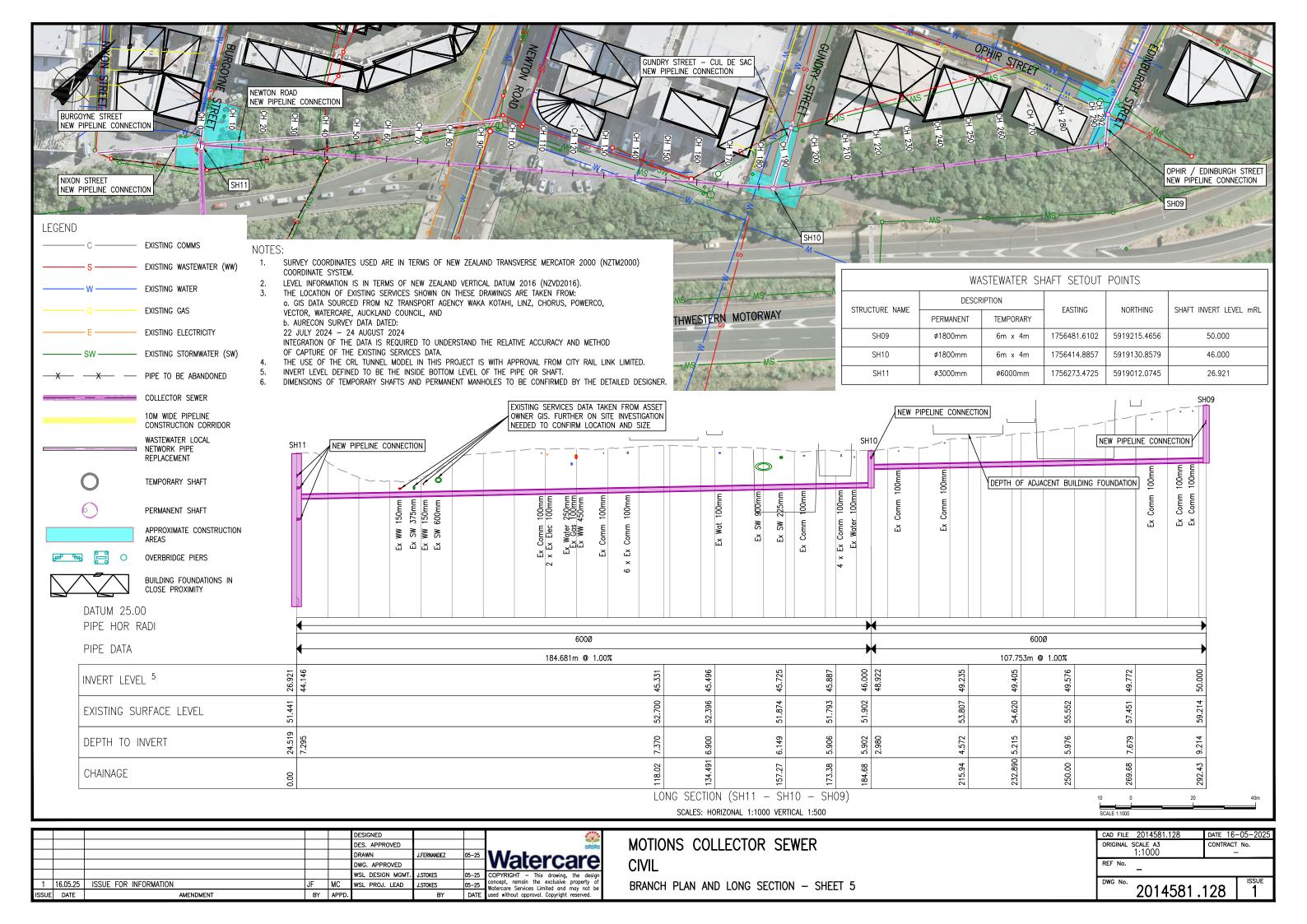
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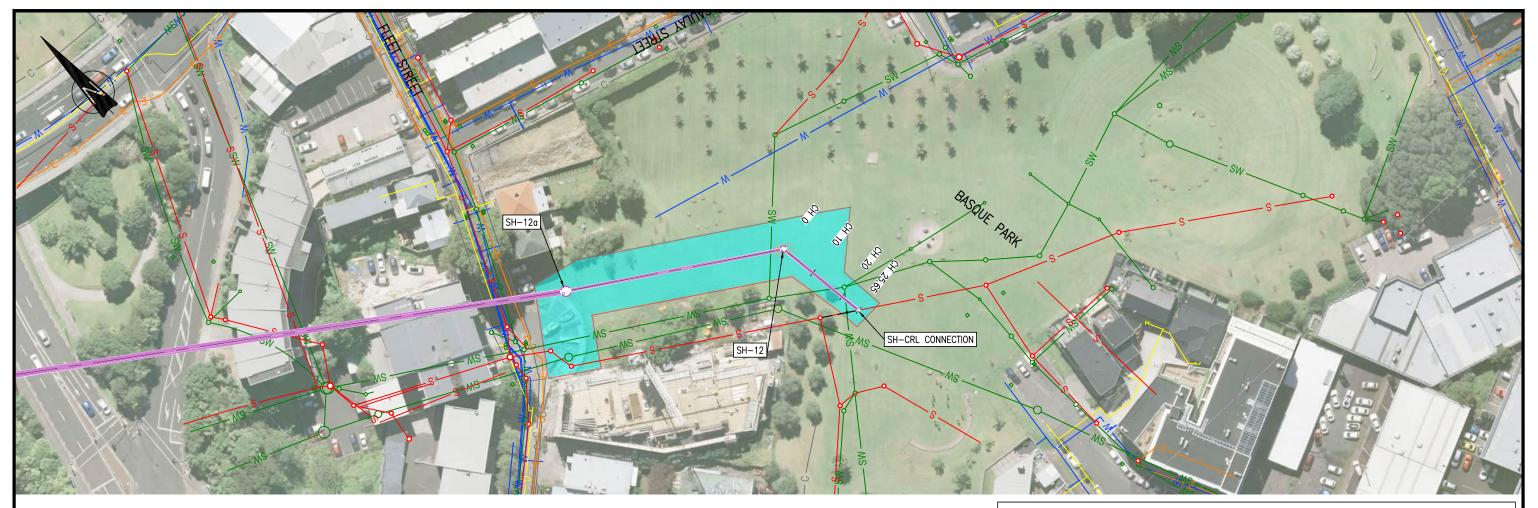
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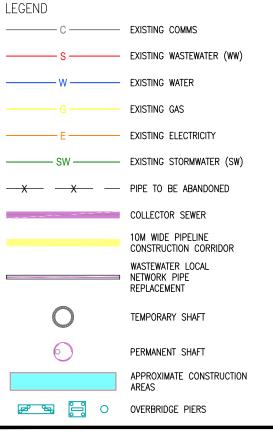
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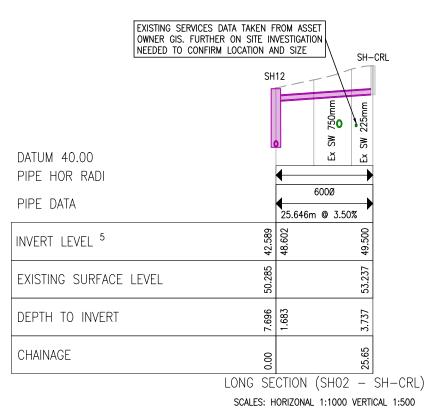
BRANCH PLAN AND LONG SECTION (OPTION B2) - SHEET 6

CAD FILE 2014581.127	DATE 16-05-2025
ORIGINAL SCALE A3 1:1000	CONTRACT No.
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DWG No. 2014581.	127 1 1









	WASTEWATER SHAFT SETOUT POINTS										
STRUCTURE NAME	DESCRIPTION				EASTING	NORTHING	SHAFT INVERT LEVEL mRL				
SIRUCIURE NAME	PERMANENT	TEMPORARY	EASTING	NORTHING	SHAFI INVERT LEVEL HIRL						
SH12	ø1800mm	6m x 4m	1756609.1105	5918751.0395	42.589						
SH-CRL	ø1050mm	-	1756612.3715	5918725.6022	49.500						

NOTES:

- . SURVEY COORDINATES USED ARE IN TERMS OF NEW ZEALAND TRANSVERSE MERCATOR 2000 (NZTM2000) COORDINATE SYSTEM.
- 2. LEVEL INFORMATION IS IN TERMS OF NEW ZEALAND VERTICAL DATUM 2016 (NZVD2016).
- 3. THE LOCATION OF EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE TAKEN FROM:
 a. GIS DATA SOURCED FROM NZ TRANSPORT AGENCY WAKA KOTAHI, LINZ, CHORUS, POWERCO, VECTOR, WATERCARE, AUCKLAND COUNCIL, AND
 - b. AURECON SURVEY DATA DATED:
 - 22 JULY 2024 24 AUGUST 2024
 - INTEGRATION OF THE DATA IS REQUIRED TO UNDERSTAND THE RELATIVE ACCURACY AND METHOD OF CAPTURE OF THE EXISTING SERVICES DATA.
- THE USE OF THE CRL TUNNEL MODEL IN THIS PROJECT IS WITH APPROVAL FROM CITY RAIL LINK LIMITED.
- 5. INVERT LEVEL DEFINED TO BE THE INSIDE BOTTOM LEVEL OF THE PIPE OR SHAFT.
- 6. DIMENSIONS OF TEMPORARY SHAFTS AND PERMANENT MANHOLES TO BE CONFIRMED BY THE DETAILED DESIGNER.

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					DWG. APPROVED		
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1	16.05.25	ISSUE FOR INFORMATION	JF	MC	WSL PROJ. LEAD	J.STOKES	05-25
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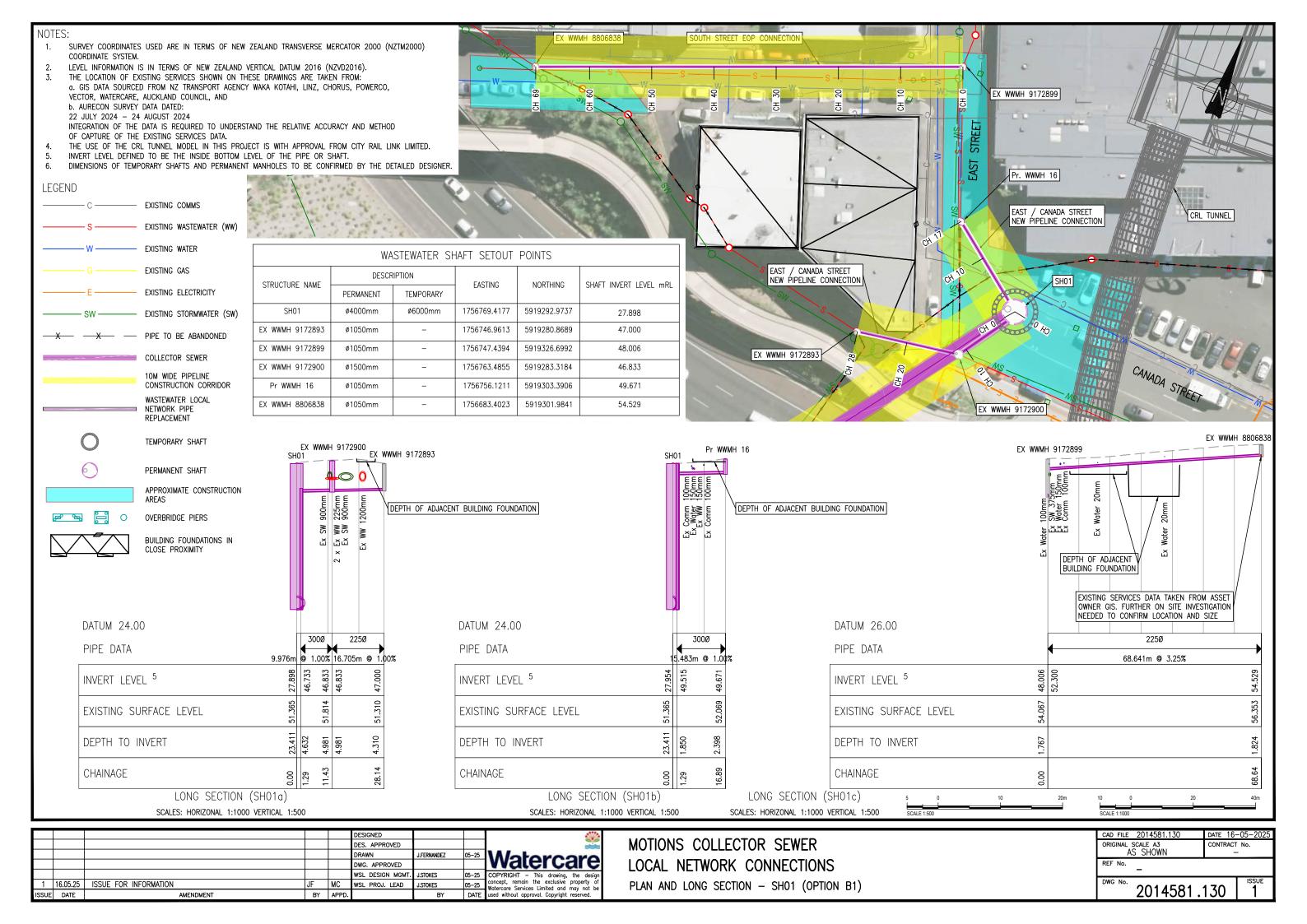
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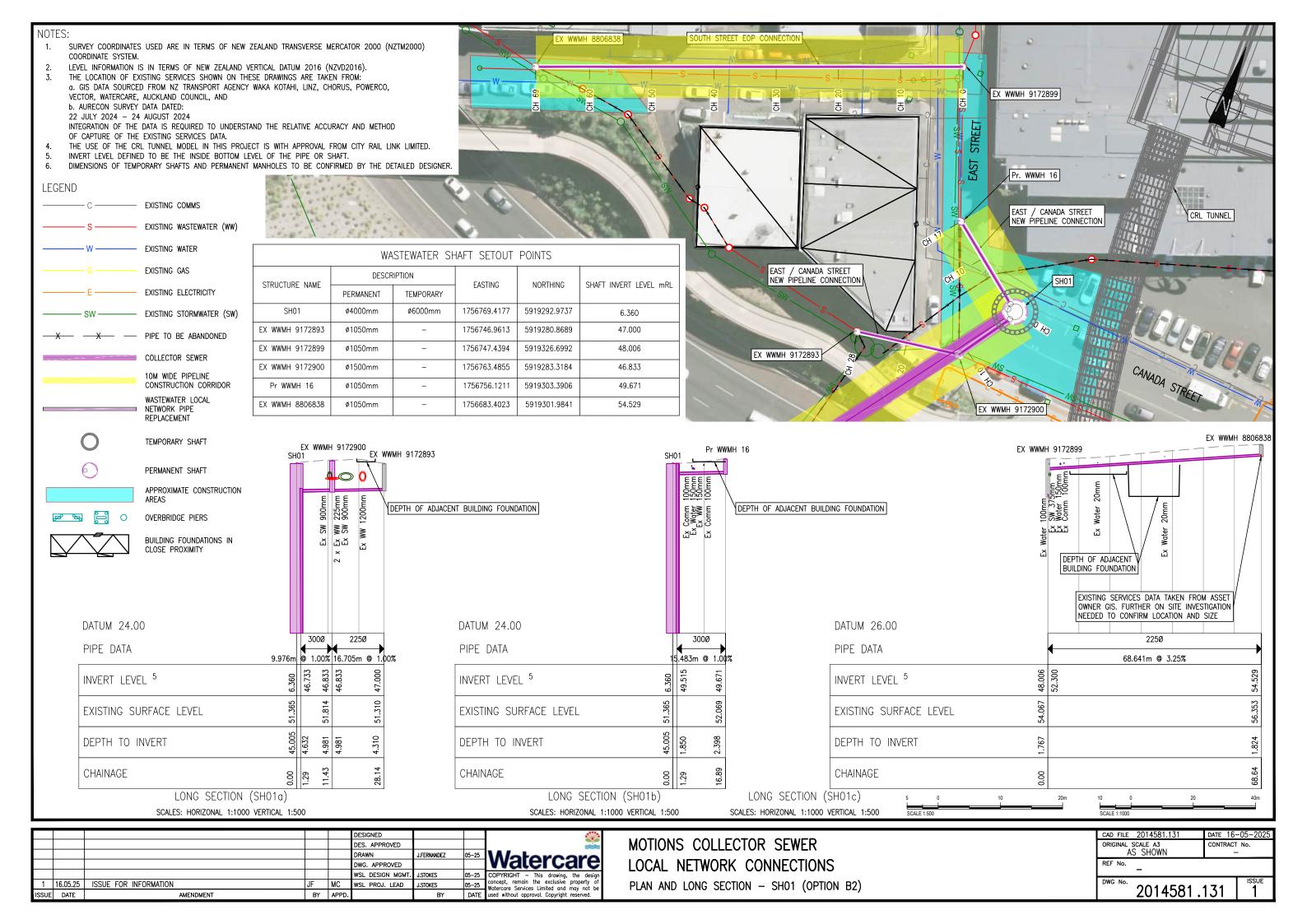
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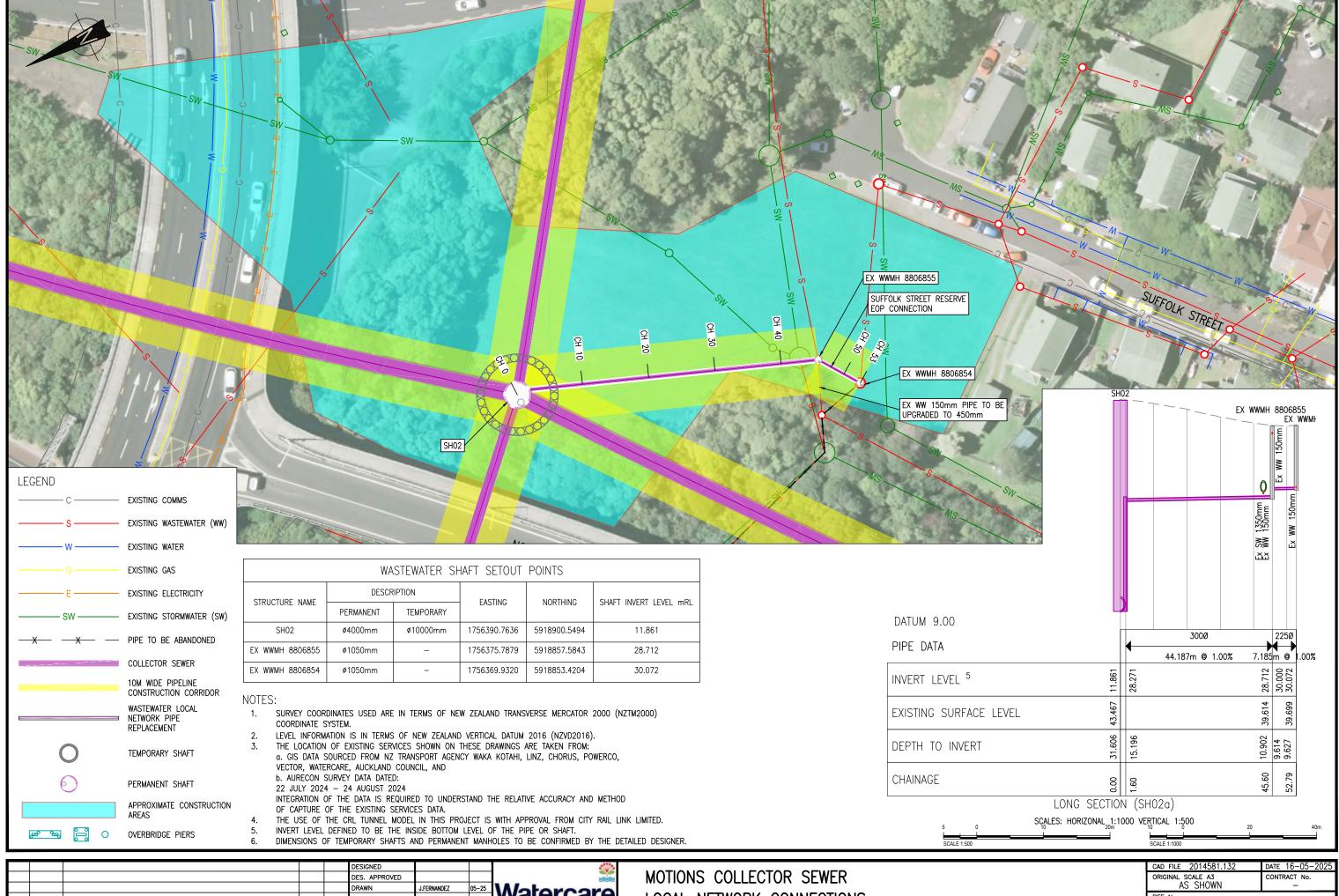
MOTIONS COLLECTOR SEWER CIVIL

SH-CRL CONNECTION

CAD FILE 2014581.129	DATE 16-05-2025
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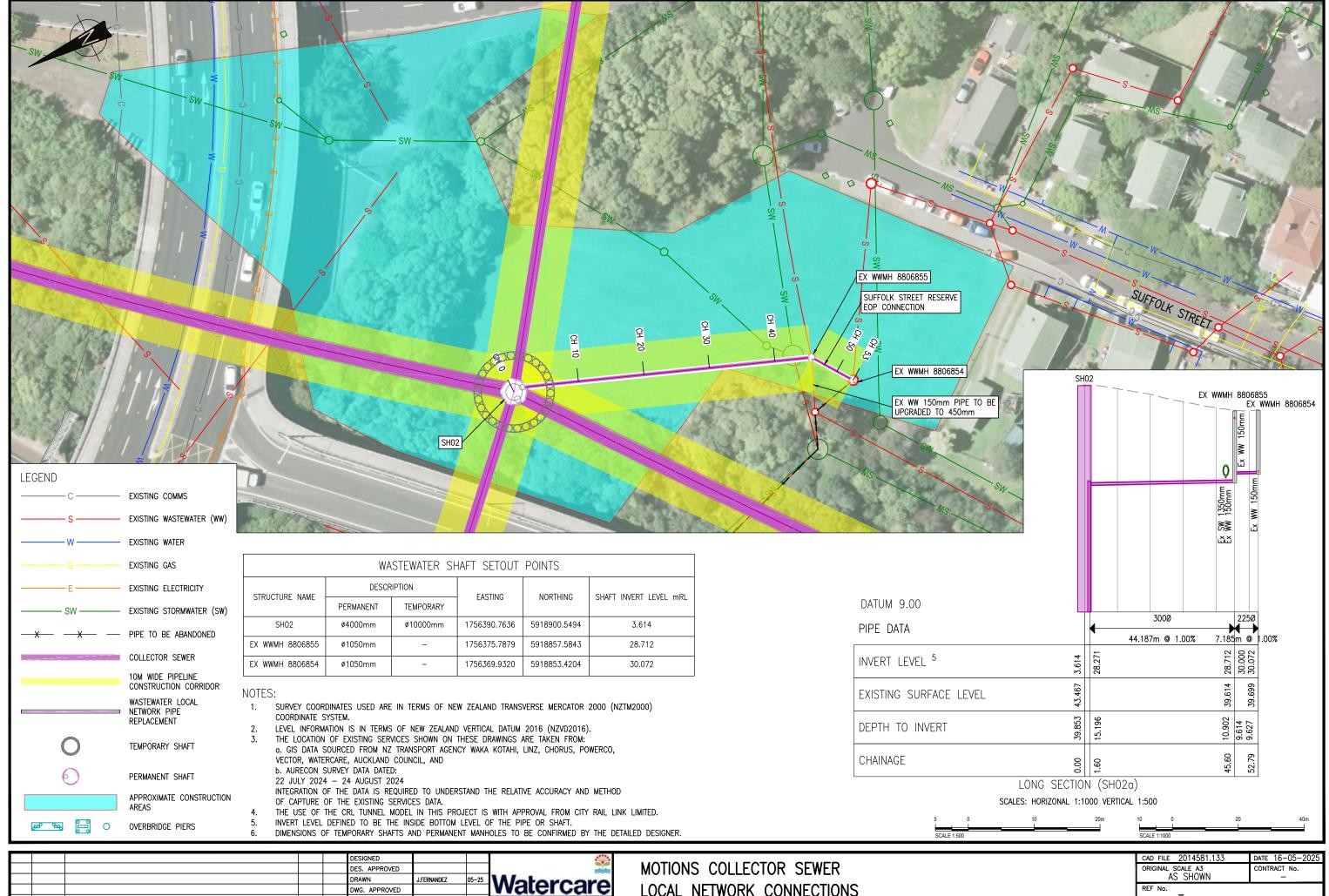


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LOCAL NETWORK CONNECTIONS

PLAN AND LONG SECTION - SHO2 (OPTION B1)

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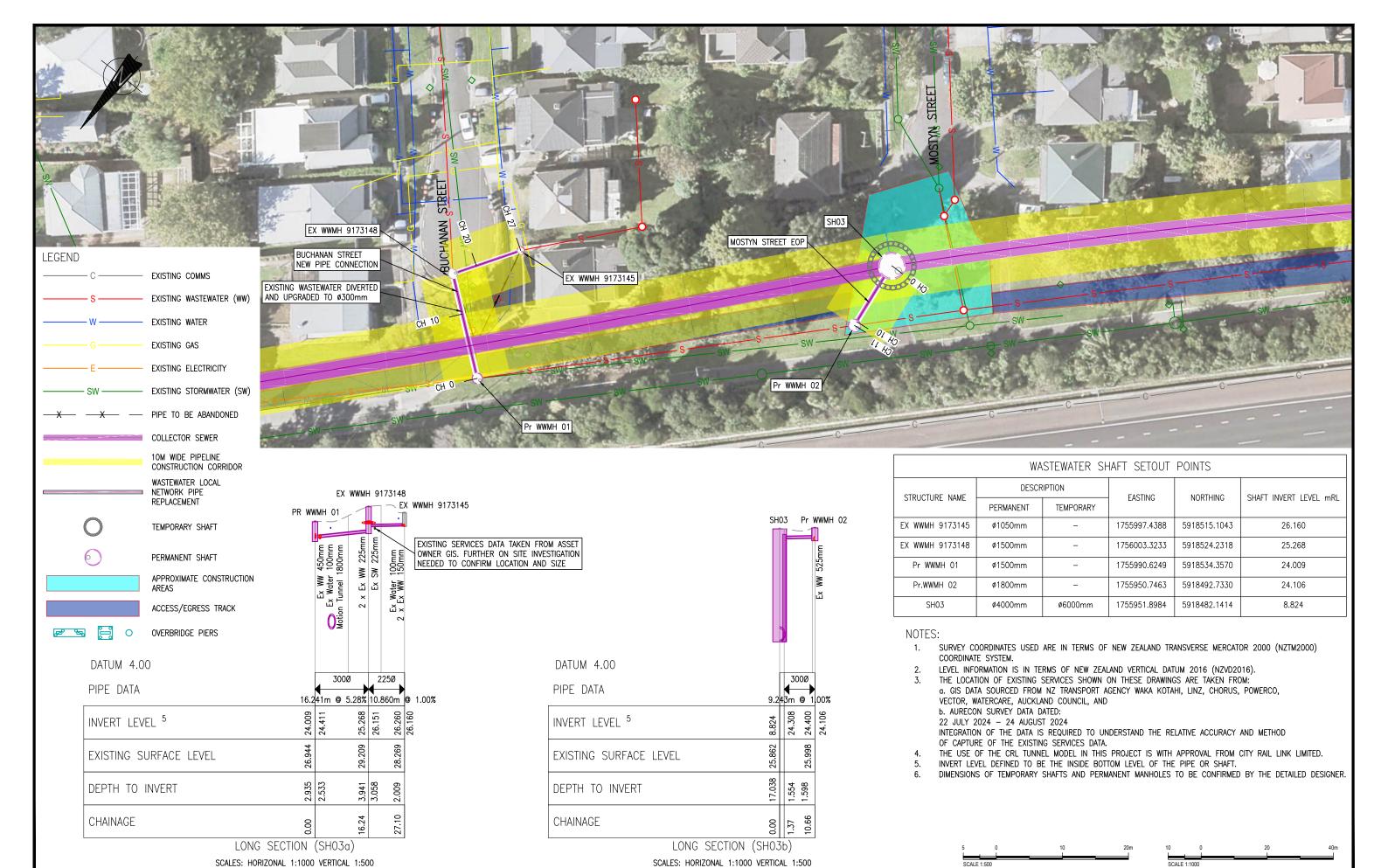


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PLAN AND LONG SECTION - SH02 (OPTION B2)

CAD FILE 2014581.133	DATE 16-	-05-2025
ORIGINAL SCALE A3 AS SHOWN	No.	
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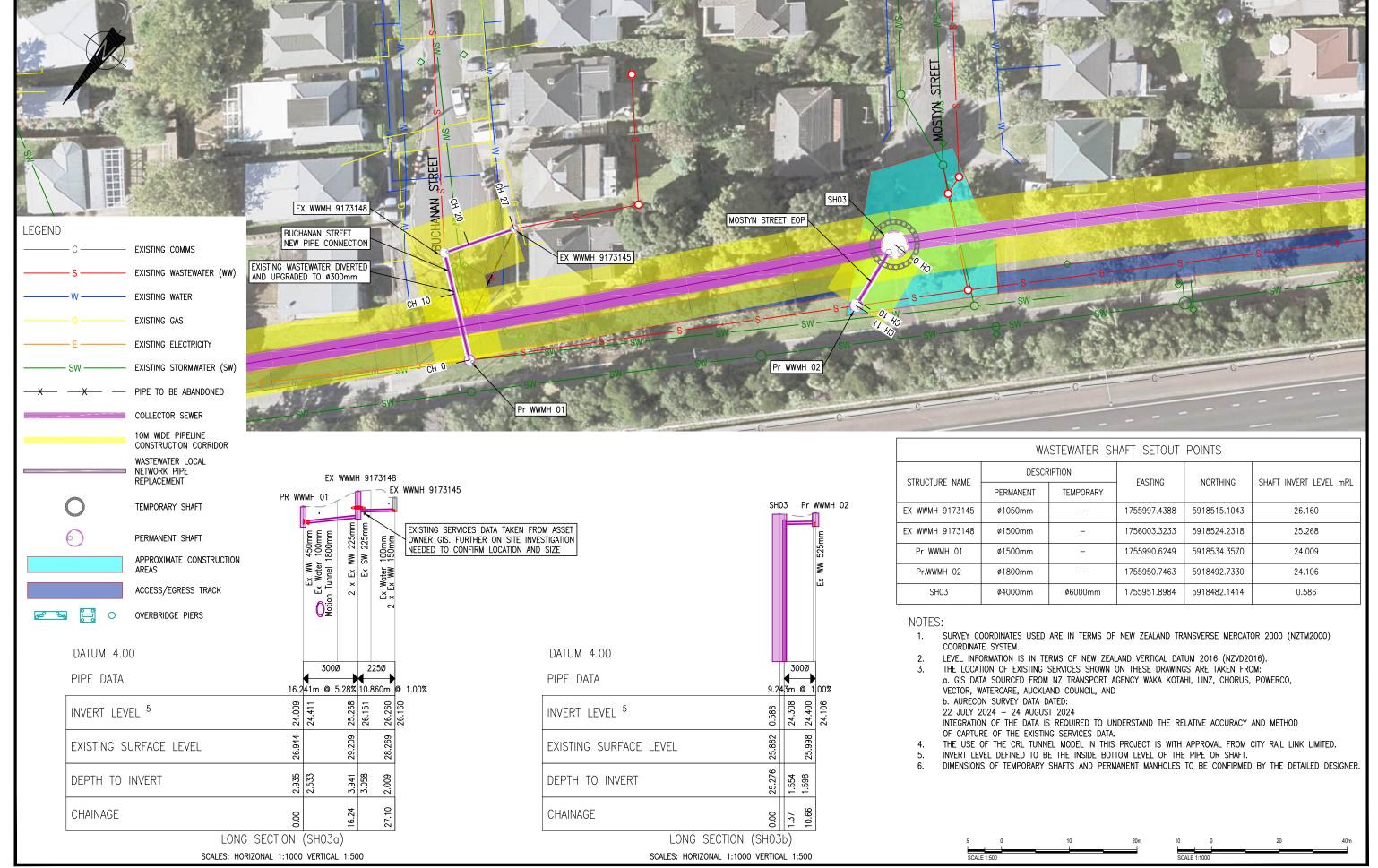
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PLAN AND LONG SECTION - SH03 (OPTION B1)

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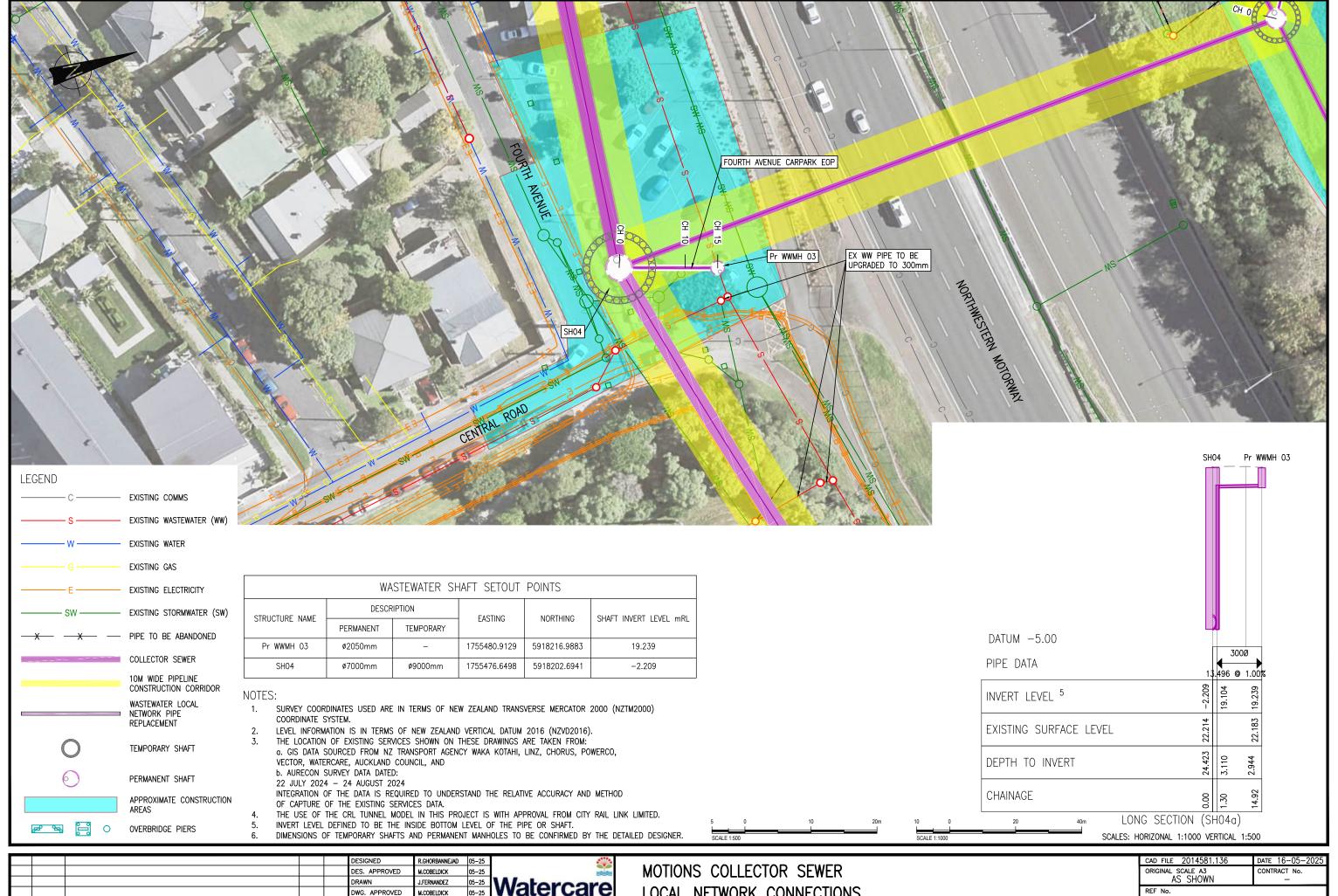
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PLAN AND LONG SECTION - SH03 (OPTION B2)

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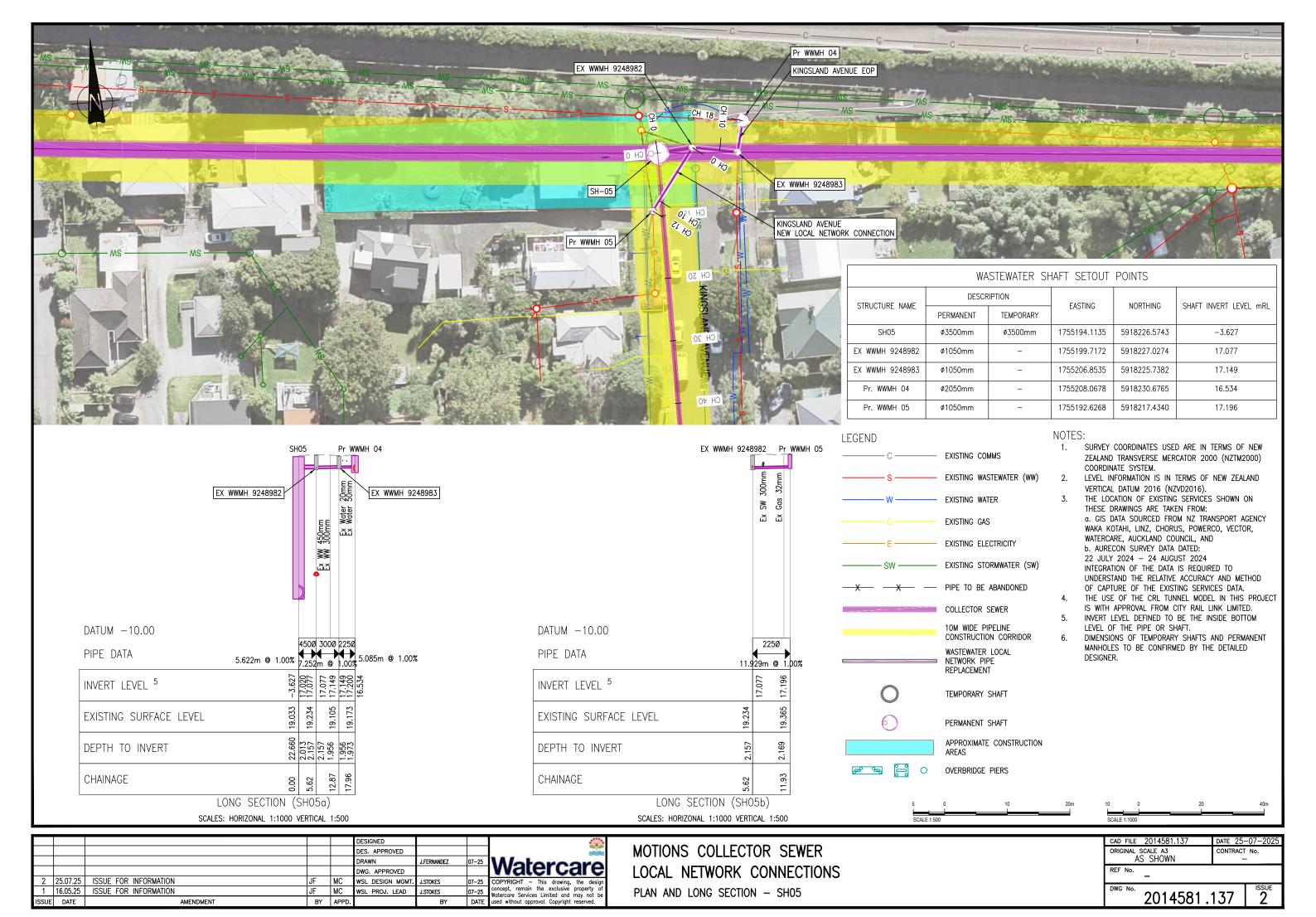
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					DES. APPROVED	M.COBELDICK	05-25	
					DRAWN	J.FERNANDEZ	05-25	V
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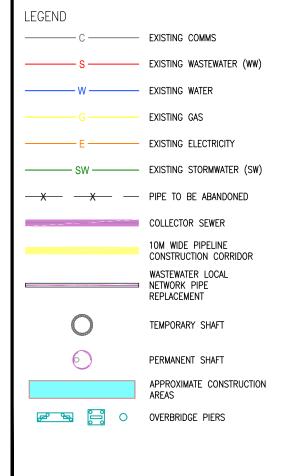
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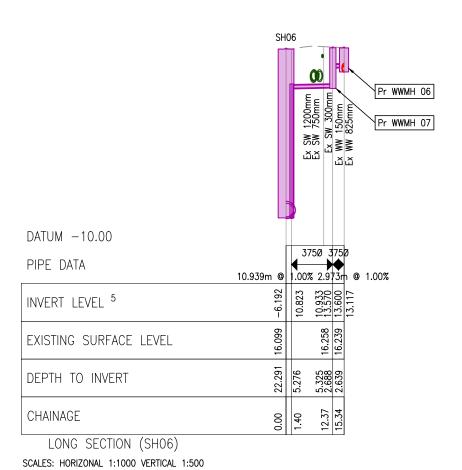
PLAN AND LONG SECTION - SH04

CAD FILE 2014581.136	DATE 16-05-2025
ORIGINAL SCALE A3 AS SHOWN	CONTRACT No.
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	WASTEWATER SHAFT SETOUT POINTS									
STRUCTURE NAME	DESCRIPTION		EASTING	NORTHING	CHAFT INVEDT LEVELDI					
STRUCTURE NAME	PERMANENT	TEMPORARY	LASTING	NORTHING	SHAFT INVERT LEVEL mRL					
SH06	ø4000mm	ø6000mm	1754685.2555	5918290.9937	-6.192					
Pr. WWMH 06	ø2300mm	-	1754698.1651	5918294.7054	13.117					
Pr. WWMH 07	ø1500mm	-	1754697.4995	5918291.8080	10.933					

NOTES:

- SURVEY COORDINATES USED ARE IN TERMS OF NEW
 ZEALAND TRANSVERSE MERCATOR 2000 (NZTM2000)
 COORDINATE SYSTEM.
- LEVEL INFORMATION IS IN TERMS OF NEW ZEALAND VERTICAL DATUM 2016 (NZVD2016).
- THE LOCATION OF EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE TAKEN FROM:

 a. GIS DATA SOURCED FROM NZ TRANSPORT AGENCY WAKA KOTAHI, LINZ, CHORUS, POWERCO, VECTOR, WATERCARE, AUCKLAND COUNCIL, AND

 b. AURECON SURVEY DATA DATED:
 22 JULY 2024 24 AUGUST 2024
 INTEGRATION OF THE DATA IS REQUIRED TO UNDERSTAND THE RELATIVE ACCURACY AND METHOD OF CAPTURE OF THE EXISTING SERVICES DATA.
- THE USE OF THE CRL TUNNEL MODEL IN THIS PROJECT IS WITH APPROVAL FROM CITY RAIL LINK LIMITED.
- 5. INVERT LEVEL DEFINED TO BE THE INSIDE BOTTOM LEVEL OF THE PIPE OR SHAFT.
- 5. DIMENSIONS OF TEMPORARY SHAFTS AND PERMANENT MANHOLES TO BE CONFIRMED BY THE DETAILED DESIGNER.

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ISSUE	DATE	AMENDMENT	BY	APPD.		BY	DATE	ü

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PLAN AND LONG SECTION - SH06

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2014581.	138 2 ISSUE

