

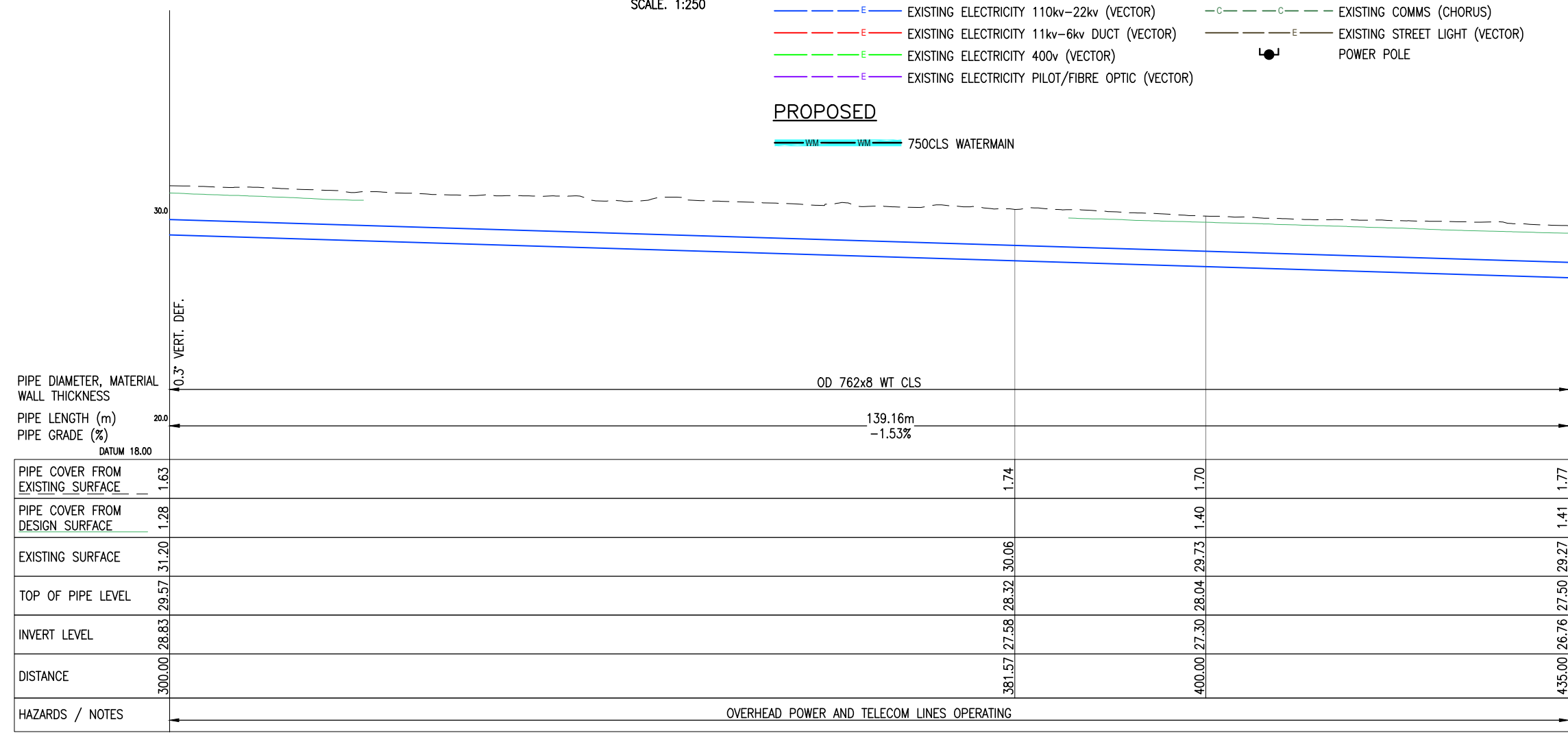
PLAN
SCALE: 1:250

LEGEND

- PROPERTY BOUNDARIES
- FUTURE BOUNDARY
- EXISTING WASTEWATER (WATERCARE)
- EXISTING WATERMAIN (WATERCARE)
- EXISTING STORMWATER (AC HEALTHY WATERS)
- EXISTING ELECTRICITY 110kv-22kv (VECTOR)
- EXISTING ELECTRICITY 11kv-6kv DUCT (VECTOR)
- EXISTING ELECTRICITY 400v (VECTOR)
- EXISTING ELECTRICITY PILOT/FIBRE OPTIC (VECTOR)
- EXISTING OVERHEAD ELECTRICITY (VECTOR)
- EXISTING GAS (VECTOR)
- EXISTING COMMS (EonNZ)
- EXISTING COMMS (EonNZ) (WITHIN UNITEC DUCTS)
- EXISTING COMMS (VECTOR)
- EXISTING COMMS (CHORUS)
- EXISTING STREET LIGHT (VECTOR)
- POWER POLE

PROPOSED

WM 750CLS WATERMAIN



LONGITUDINAL SECTION
HOR SCALE 1:250 VERT SCALE 1:125

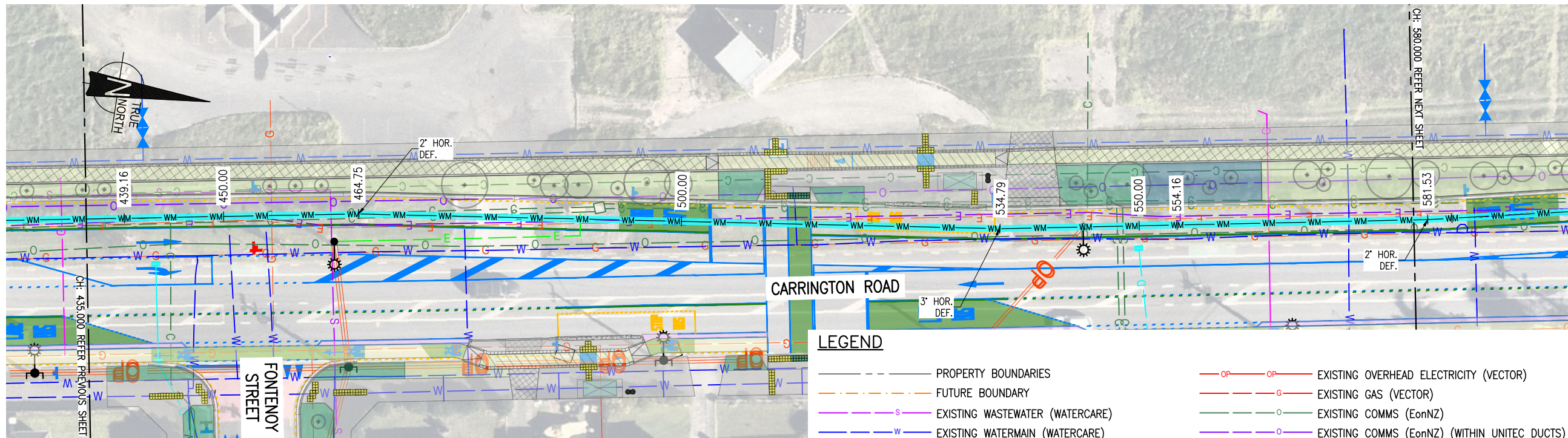
NOTES

- REFER DW10 (WATER TRANSMISSION STANDARDS) - DRAWING 2001979.092 FOR TRENCH REINSTATEMENT.
- BOTH HORIZONTAL AND VERTICAL DEFLECTION LESS THAN 3 DEGREES WILL BE CONSTRUCTED USING JOINT DEFLECTIONS.
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VERTICAL 1:125
AT ORIGINAL SIZE
HORIZONTAL 1:250
AT ORIGINAL SIZE

ORIGINAL DRAWING
IN COLOUR
FOR CLIENT REVIEW
NOT FOR CONSTRUCTION

					DESIGNED	Y. WU / C. GIL	11.24	 Watercare COPYRIGHT – This drawing, the design concept, remain the exclusive property of Watercare Services Limited and may not be used without approval. Copyright reserved.	POINT CHEVALIER WATERMAIN No. 2 91 TREATED WATER – PUMPING, STORAGE, WATERMAINS CARRINGTON ROAD – LAYOUT PLAN AND PIPE LONGITUDINAL SECTION – SHEET 3	CAD FILE	2013XXX.204	DATE	20.12.2024
					DES. APPROVED	D. HEILER	11.24			ORIGINAL SCALE	A1	CONTRACT No.	–
					DRAWN	C. GIL	11.24			AS SHOWN			
					DWG. APPROVED	E. URAZ	11.24			REF. No.	WMXXX–91–C–204		
					WSL DESIGN MGMT.					DWG. No.	2013XXX .204		
1	12.24	FOR REVIEW		CG	EU					ISSUE 2013XXX .204			1
ISSUE	DATE	AMENDMENT		BY	APPD.		BY	DATE					



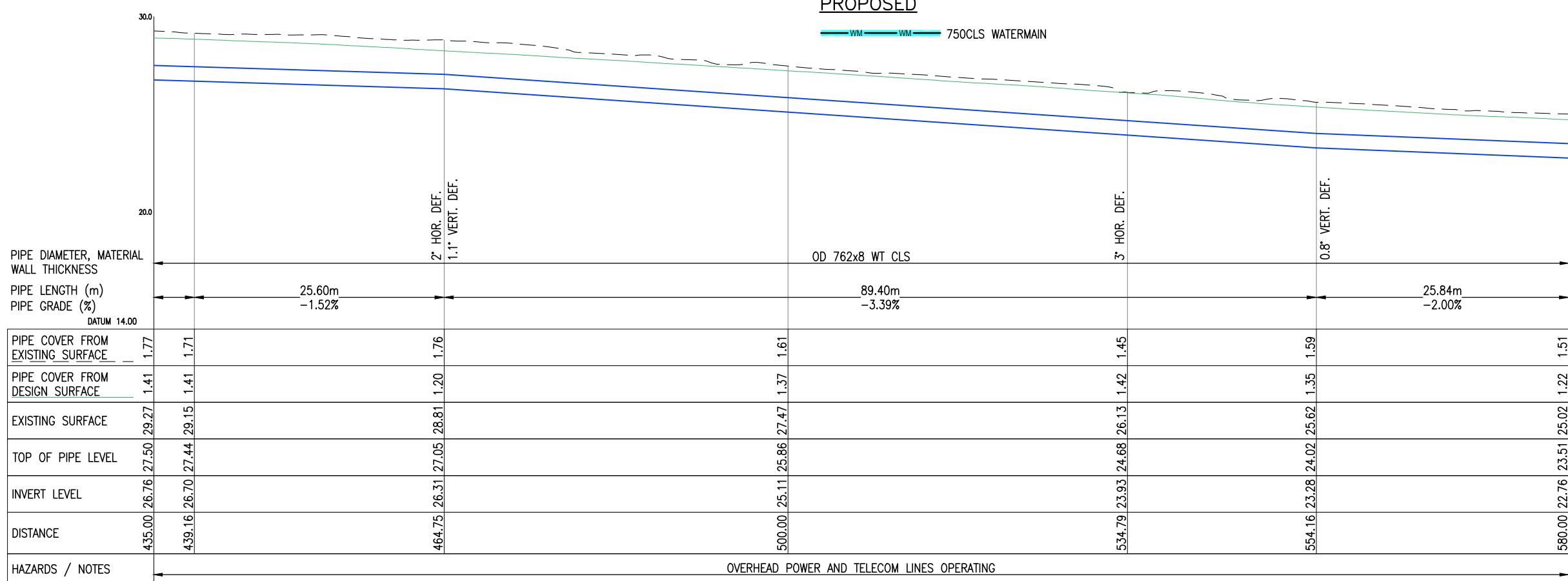
PLAN
SCALE: 1:250

LEGEND

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- FUTURE BOUNDARY
- EXISTING WASTEWATER (WATERCARE)
- EXISTING WATERMAIN (WATERCARE)
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- EXISTING ELECTRICITY 110kv-22kv (VECTOR)
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- EXISTING ELECTRICITY 400v (VECTOR)
- EXISTING ELECTRICITY PILOT/FIBRE OPTIC (VECTOR)
- EXISTING OVERHEAD ELECTRICITY (VECTOR)
- EXISTING GAS (VECTOR)
- EXISTING COMMS (EonNZ)
- EXISTING COMMS (EonNZ) (WITHIN UNITEC DUCTS)
- EXISTING COMMS (VECTOR)
- EXISTING COMMS (CHORUS)
- EXISTING STREET LIGHT (VECTOR)
- POWER POLE

PROPOSED

WM 750CLS WATERMAIN




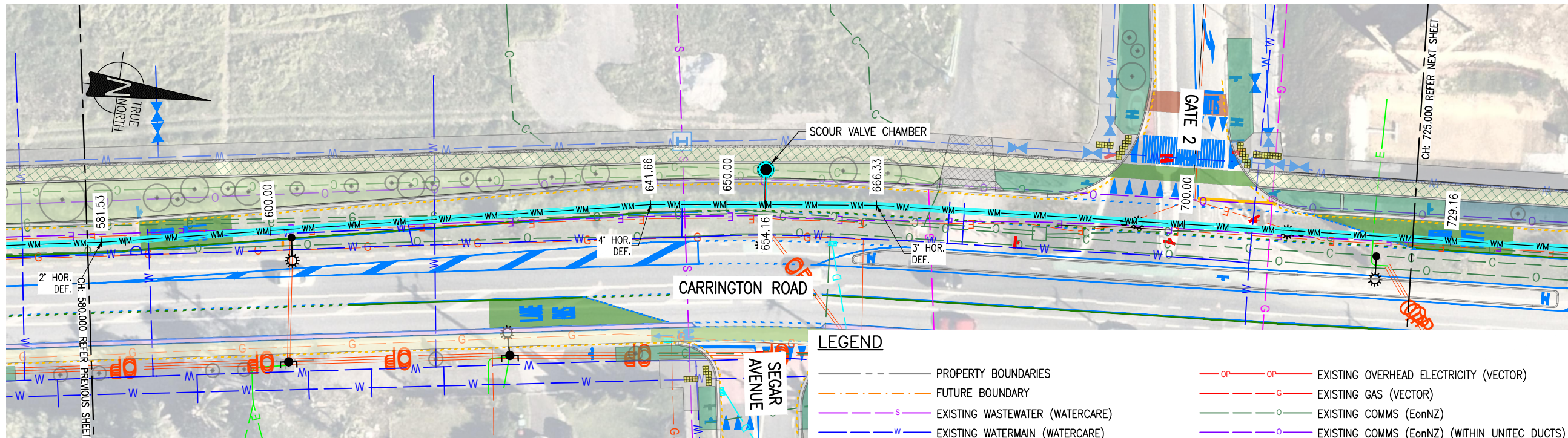
LONGITUDINAL SECTION
HOR SCALE 1:250 VERT SCALE 1:125

NOTES

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ORIGINAL DRAWING
IN COLOUR
FOR CLIENT REVIEW
NOT FOR CONSTRUCTION

						DESIGNED	Y. WU / C. GIL	11.24	 Watercare	POINT CHEVALIER WATERMAIN No. 2 91 TREATED WATER – PUMPING, STORAGE, WATERMAINS CARRINGTON ROAD – LAYOUT PLAN AND PIPE LONGITUDINAL SECTION – SHEET 4	CAD FILE 2013XXX.205		DATE 20.12.2024	
						DES. APPROVED	D. HEILER	11.24			ORIGINAL SCALE A1	CONTRACT No.		
						DRAWN	C. GIL	11.24			AS SHOWN	—		
						DWG. APPROVED	E. URAZ	11.24						
						WSL DESIGN MGMT.			COPYRIGHT — This drawing, the design concept, remain the exclusive property of Watercare Services Limited and may not be used without approval. Copyright reserved.	DRAFT	REF. No. WMXXX-91-C-205			
						WSL PROJ. LEAD					DWG. No.	2013XXX .205	ISSUE	1
1	12.24	FOR REVIEW			CG	EU								
ISSUE	DATE	AMENDMENT			BY	APPD.		BY			DATE			



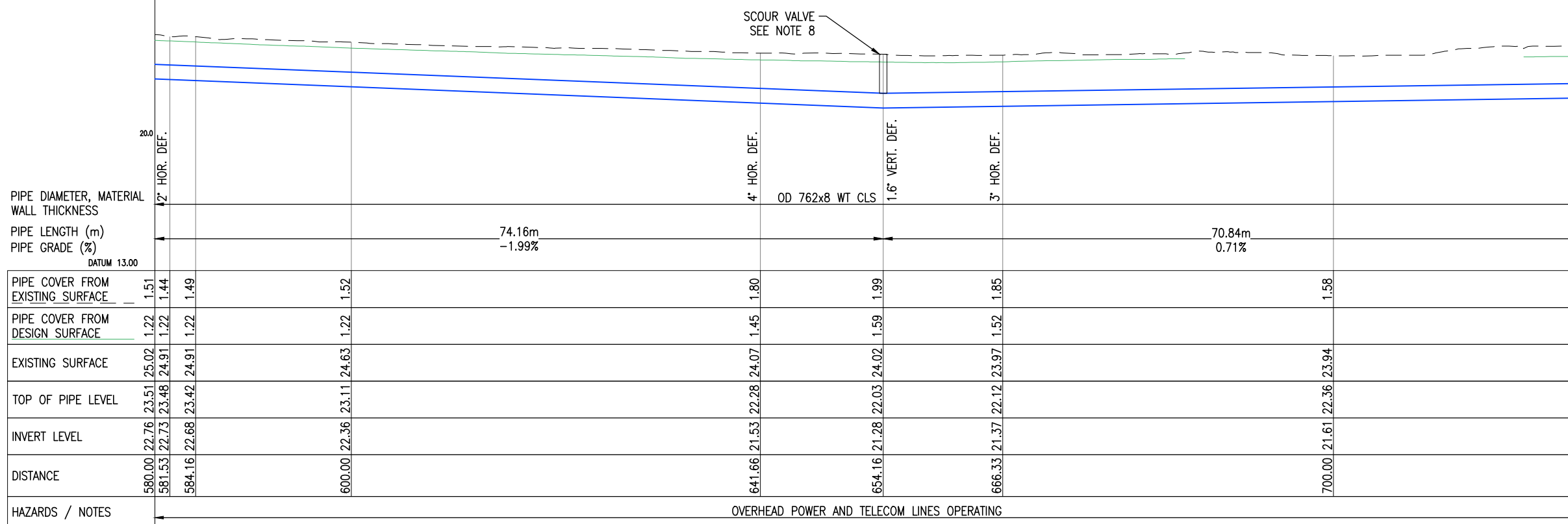
PLAN
SCALE: 1:250

LEGEND

- PROPERTY BOUNDARIES
- FUTURE BOUNDARY
- EXISTING WASTEWATER (WATERCARE)
- EXISTING WATERMAIN (WATERCARE)
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- EXISTING COMMS (EonNZ) (WITHIN UNITEC DUCTS)
- EXISTING COMMS (VECTOR)
- EXISTING COMMS (CHORUS)
- EXISTING STREET LIGHT (VECTOR)
- POWER POLE

PROPOSED

WM 750CLS WATERMAIN



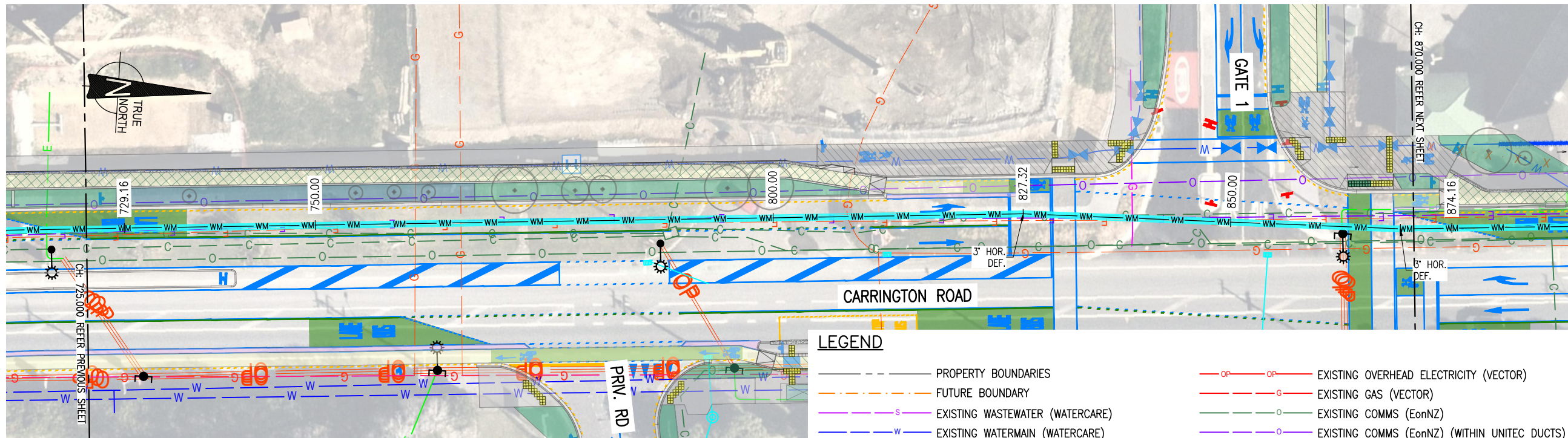
LONGITUDINAL SECTION
HOR SCALE 1:250 VERT SCALE 1:125

NOTES

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ORIGINAL DRAWING
IN COLOUR
FOR CLIENT REVIEW
NOT FOR CONSTRUCTION

				DESIGNED	Y. WU / C. GIL	11.24		POINT CHEVALIER WATERMAIN No. 2 91 TREATED WATER - PUMPING, STORAGE, WATERMAINS CARRINGTON ROAD - LAYOUT PLAN AND PIPE LONGITUDINAL SECTION - SHEET 5	CAD FILE	2013XXX.206	DATE	20.12.2024
				DES. APPROVED	D. HEILER	11.24			ORIGINAL SCALE	A1	CONTRACT No.	-
				DRAWN	C. GIL	11.24			AS SHOWN			
				DWG. APPROVED	E. URAZ	11.24			REF. No.	WMXXX-91-C-206		
				WSL DESIGN MGMT.					DWG. No.	2013XXX .206	ISSUE	1
1	12.24	FOR REVIEW	CG	EU								
ISSUE	DATE	AMENDMENT	BY	APPD.	BY	DATE						



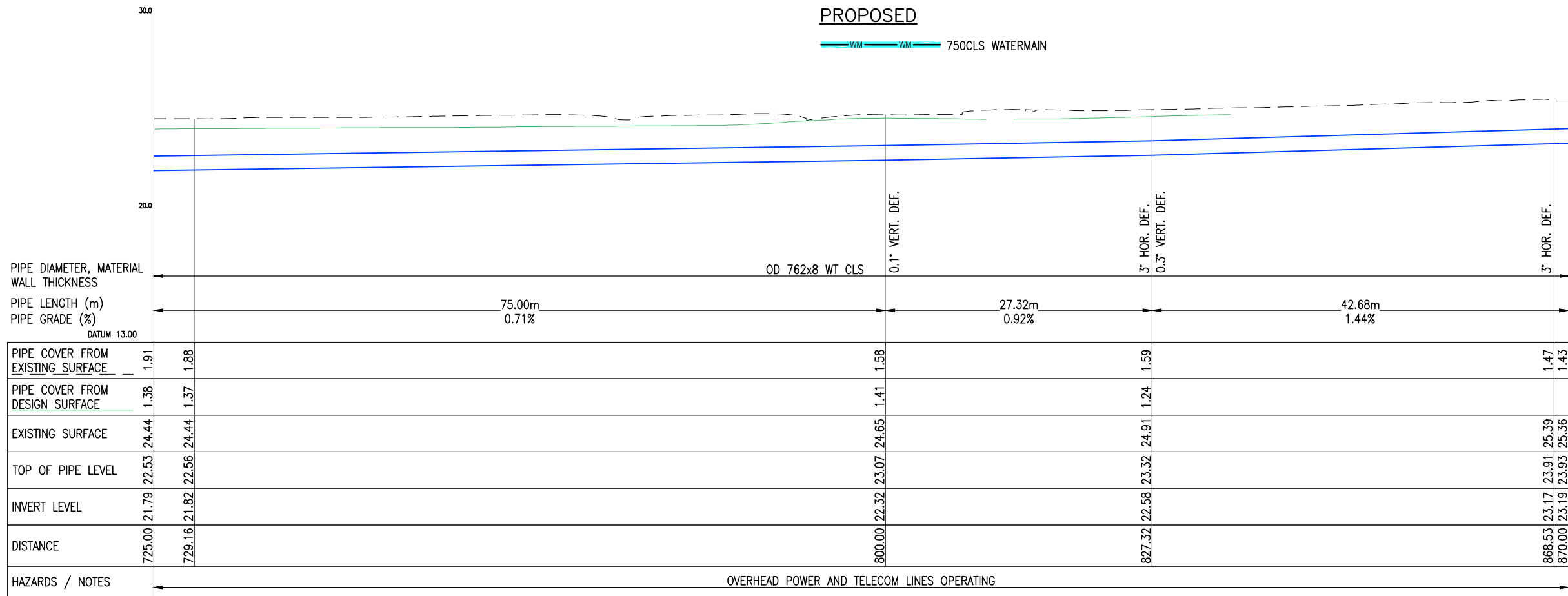
PLAN
SCALE: 1:250

LEGEND

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- EXISTING COMMS (CHORUS)
- EXISTING STREET LIGHT (VECTOR)
- POWER POLE

PROPOSED

WM 750CLS WATERMAIN




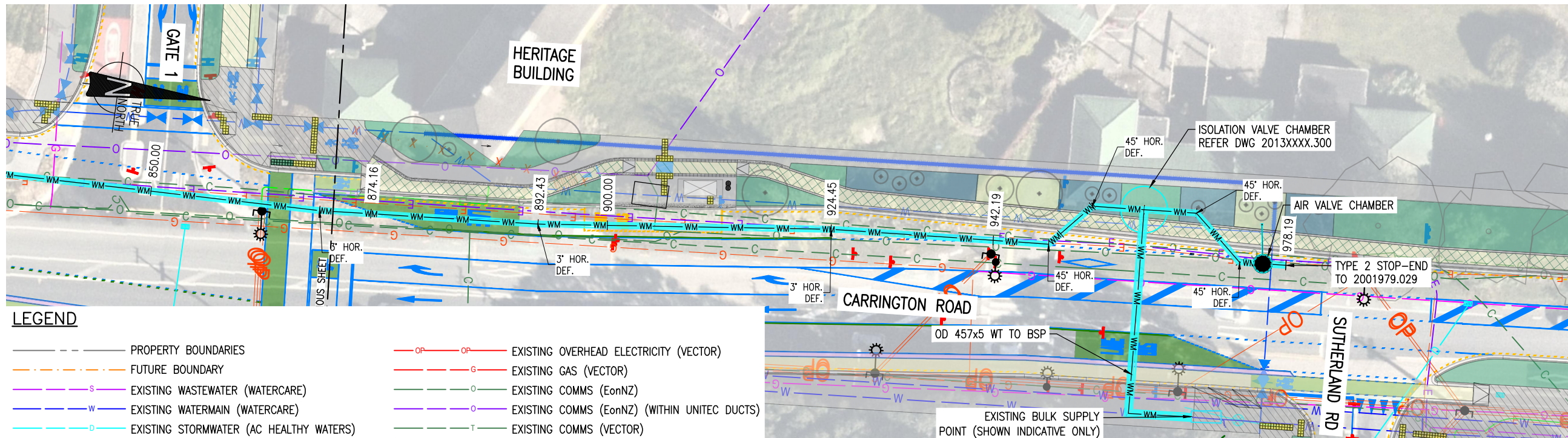
LONGITUDINAL SECTION
HOR SCALE 1:250 VERT SCALE 1:125

NOTES

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ORIGINAL DRAWING
IN COLOUR
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				DESIGNED	Y. WU / C. GIL	11.24	 Watercare COPYRIGHT - This drawing, the design concept, remain the exclusive property of Watercare Services Limited and may not be used without approval. Copyright reserved.	POINT CHEVALIER WATERMAIN No. 2 91 TREATED WATER - PUMPING, STORAGE, WATERMAINS CARRINGTON ROAD - LAYOUT PLAN AND PIPE LONGITUDINAL SECTION - SHEET 6	CAD FILE	2013XXX.207	DATE	20.12.2024
				DES. APPROVED	D. HEILER	11.24			ORIGINAL SCALE	A1	CONTRACT No.	-
				DRAWN	C. GIL	11.24			AS SHOWN			
				DWG. APPROVED	E. URAZ	11.24			REF. No.	WMXXX-91-C-207		
				WSL DESIGN MGMT.					DWG. No.	2013XXX .207	ISSUE	1
1	12.24	FOR REVIEW	CG	EU								
ISSUE	DATE	AMENDMENT	BY	APPD.	BY	DATE						

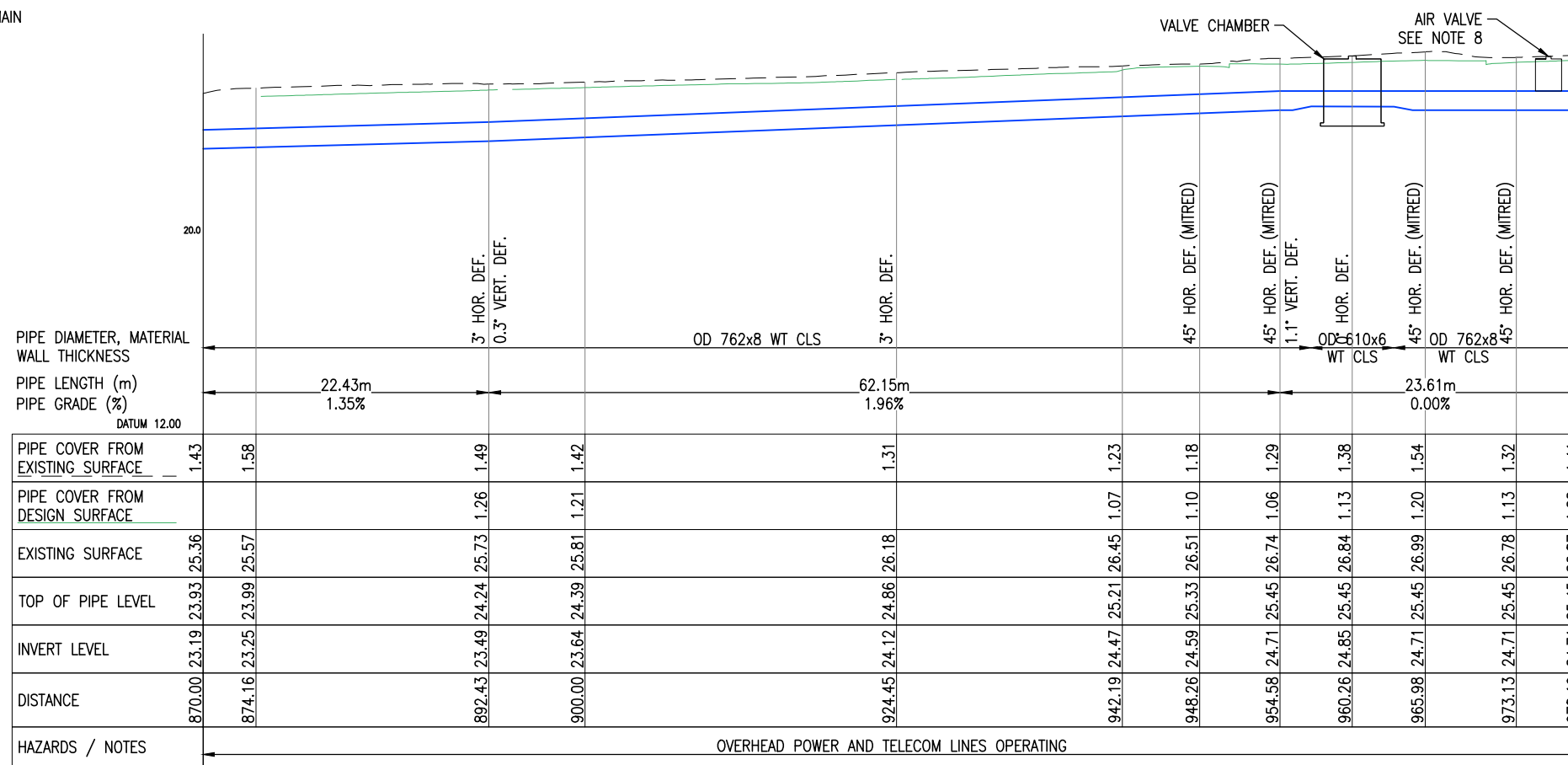


LEGEND

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- EXISTING COMMS (VECTOR)
- EXISTING COMMS (CHORUS)
- EXISTING STREET LIGHT (VECTOR)
- POWER POLE

PROPOSED

WM WM 750CLS WATERMAIN



LONGITUDINAL SECTION
HOR SCALE 1:250 VERT SCALE 1:125

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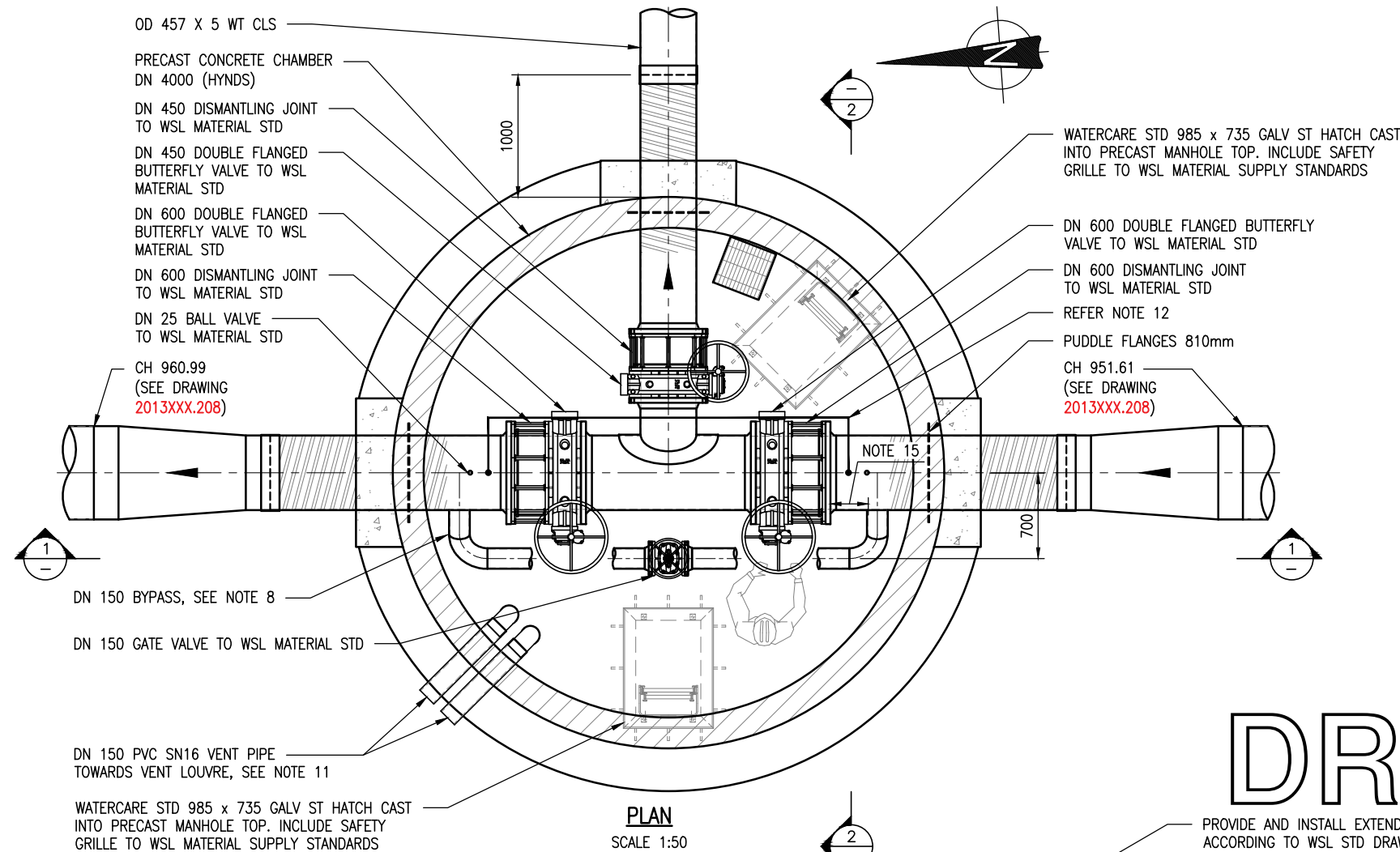
VERTICAL 1:125
AT ORIGINAL SIZE
HORIZONTAL 1:250
AT ORIGINAL SIZE

				DESIGNED	Y. WU / C. GIL	11.24
				DES. APPROVED	D. HEILER	11.24
				DRAWN	C. GIL	11.24
				DWG. APPROVED	E. URAZ	11.24
				WSL DESIGN MGMT.		
				WSL PROJ. LEAD		
1	12.24	FOR REVIEW	CG	EU		
ISSUE	DATE	AMENDMENT	BY	APPD.	BY	DATE

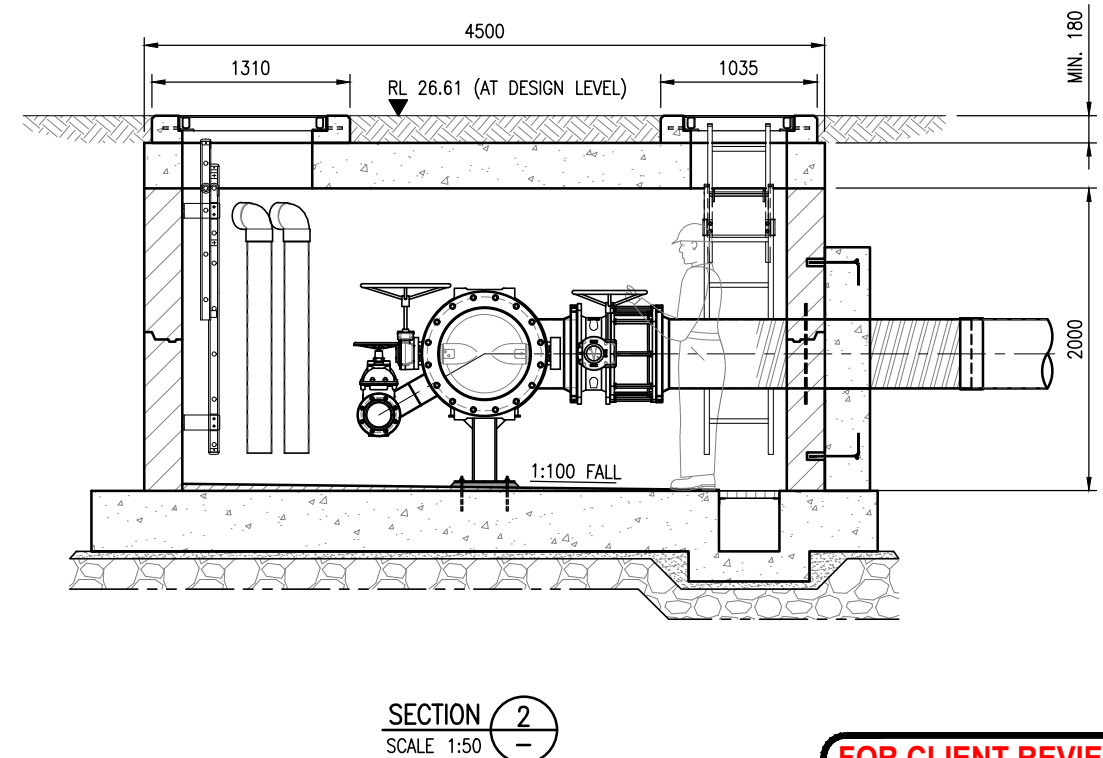
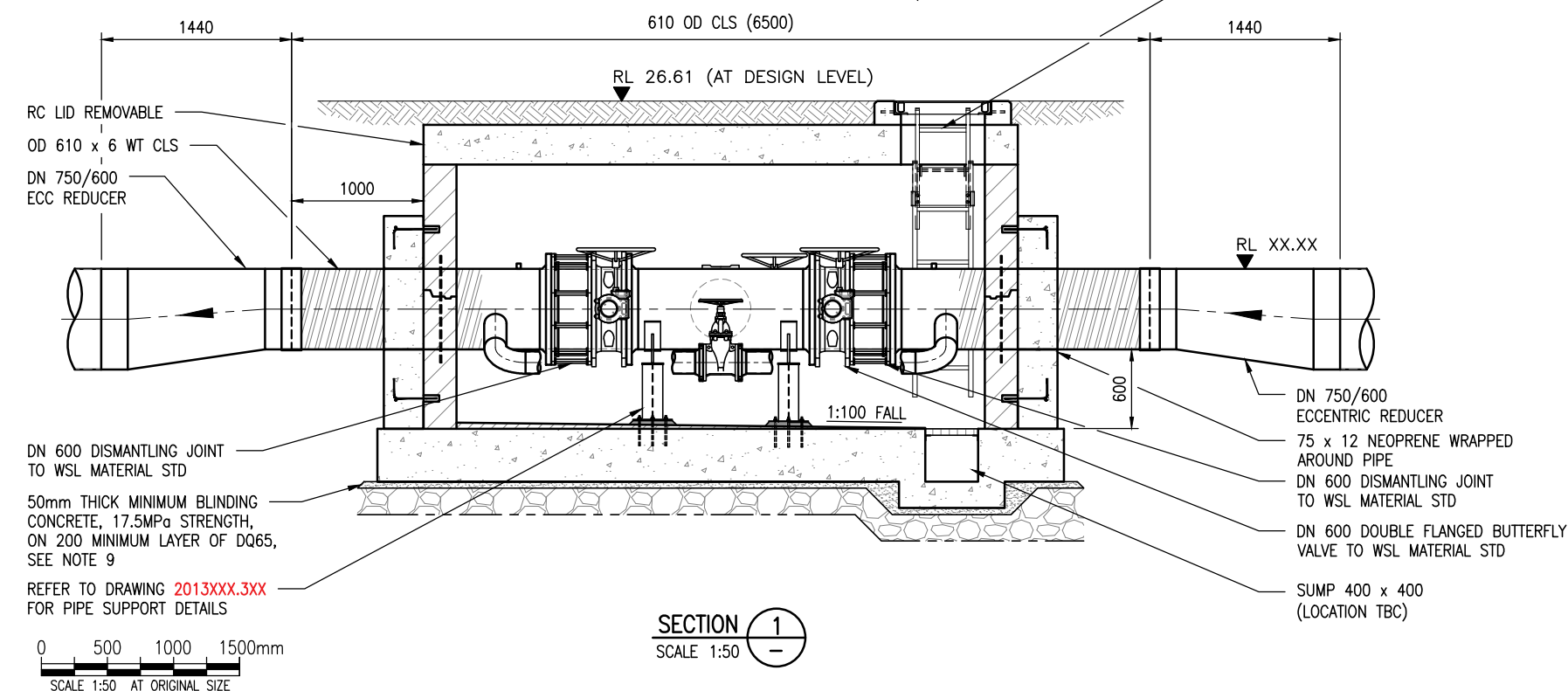
Watercare
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POINT CHEVALIER WATERMAIN No. 2
91 TREATED WATER - PUMPING, STORAGE, WATERMAINS
CARRINGTON ROAD - LAYOUT PLAN AND PIPE LONGITUDINAL SECTION - SHEET 7

CAD FILE	2013XXX.208	DATE	20.12.2024
ORIGINAL SCALE	A1	CONTRACT No.	-
AS SHOWN			
REF. No.	WMXXX-91-C-208		
DWG. No.	2013XXX .208	ISSUE	1



DRAFT



NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH WSL STANDARD LINE VALVE CHAMBER DRAWING 2001979.134A.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH LATEST VERSION OF WSL STANDARD DRAWINGS AND SPECIFICATIONS.
- ALL TEE'S ON BYPASS WILL BE STRENGTHENED WITH COLLAR PLATES. 175mm WIDE X 6.3mm THICK SEE DRAWING 2013XXX.3XX.
- ALL CONCRETE LINED STEEL PIPE, PIPEWORK AND FITTINGS SHALL BE TO WSL STANDARDS.
- ALL PIPELINES, VALVES AND FITTINGS TO BE PN16 MINIMUM.
- VALVE CHAMBER TO BE SEALED AGAINST WATER INGRESS. TEST TO BE HYDROSTATIC TESTING OF CONCRETE MANHOLES, ACCORDING TO WSL GENERAL CIVIL CONSTRUCTION STANDARD SECTION 10.5.2 A.
- FOR WELD BAND DETAIL REFER TO WSL STANDARD DRAWING 2001979.019D.
- BYPASS PIPEWORK TO BE 150mm DIA SCHEDULE 40 MILD STEEL PIPE, EPOXY LINED OUTSIDE AND EPOXY OR CONCRETE LINED INSIDE.
- CONTRACTOR IS TO TEST CHAMBER FOUNDATION MATERIAL TO ENSURE SCALA PENETROMETER > 4BLOWS/150mm WITH 1 TEST/m² CHAMBER AREA. WHERE NO OF BLOWS 4 OR LESS THEN SOFT UNSUITABLE MATERIAL TO BE UNDERCUT AND REPLACED WITH DQ65 ON WSL APPROVED GEOTEXTILE.
- LINING ENDS FULLY OF WELD NECK FLANGE IN ACCORDANCE WITH CONTRACTOR STATEMENT.
- FOR VENTILATION LOUVRE BOXES DETAIL, SEE WSL STANDARD DRAWING 2001979.076.
- INSTALL 16mm² CONTINUITY BOND CABLE BY MEANS OF EXOTHERMIC WELDING OR IN ACCORDANCE WITH WSL STANDARD DRAWING 2001979.091C DETAILS 1 OR 3.
- GATE VALVE SHALL BE RESILIENT SEATED PN16 RATED, WITH AS/NZS 4087 FLANGES.
- CONTRACTOR TO SUPPLY SUPPORT FOR VENTILATION DUCTS IF APPLICABLE.
- MINIMUM 300mm CLEARANCE BETWEEN BACK END OF DN600 FLANGE AND DN150 BYPASS PIPEWORK TO ALLOW DISMANTLING JOINT BOLT REMOVAL.
- THE AT CRIP DESIGN SURFACE IS AT A PRELIMINARY DESIGN LEVEL AND MAY CHANGE DURING DETAILED DESIGN.

FOR CLIENT REVIEW
NOT FOR CONSTRUCTION

				DESIGNED	A. ENGSTROM	11.24
				DES. APPROVED	E. URAZ	11.24
				DRAWN	A. ENGSTROM	11.24
				DWG. APPROVED	-	-
				WSL DESIGN MGMT.		
				WSL PROJ. LEAD		
1	12.12	FOR CLIENT REVIEW	AE	EU		
ISSUE	DATE	AMENDMENT	BY	APPD.	BY	DATE



POINT CHEVALIER WATERMAIN No. 2 92 TREATED WATER LINE VALVE

CARRINGTON ROAD LINE VALVE CHAMBER - DETAILS - SHEET 1 OF 1

CAD FILE	2013XXX.XXXX	DATE	DD-MM-YYYY
ORIGINAL SCALE	A3 1:50	CONTRACT No.	XXXX
REF No.	WMXXX-92-LV01		
DWG No.	2013XXXX.300	ISSUE	1