



REED ROAD WATERLINE REPLACEMENT 2026

SUNSHINE COAST REGIONAL DISTRICT, INFRASTRUCTURE DIVISION

WO116364 - ISSUED FOR TENDER - 2026

SHEET INDEX

GENERAL

- G-1 TITLE SHEET, LOCATION MAPS, VICINITY, SHEET INDEX
- G-2 KEY PLAN

CIVIL

- C-1 PLAN PROFILE - STA. 1+000 to 1+260
- C-2 PLAN PROFILE - STA. 1+260 to 1+520
- C-3 PLAN PROFILE - STA. 1+520 to 1+780
- C-4 PLAN PROFILE - STA. 1+780 to 1+900
- C-5 ASPHALT RESTORATION

DETAILS

- D-1 SUPPLEMENTARY DETAILS 1
- D-2 SUPPLEMENTARY DETAILS 2

CONTACT INFORMATION

MANAGER CAPITAL PROJECTS

Jesse Waldorf.
 Sunshine Coast Regional District (SCRD)
 1975 Field Road Sechelt, BC V0N 3A1
 TEL: 604-865-4176

WATER - UTILITIES SUPERINTENDENT

Codi Abbott
 Sunshine Coast Regional District (SCRD)
 Works Division
 5920 Mason Rd, Sechelt, BC V0N 3A8
 TEL: 604-741-3914

NATURAL GAS

FortisBC Energy Inc.
 16705 Fraser Highway
 Surrey, BC V4N 0E8
 604 576 7000

POWER

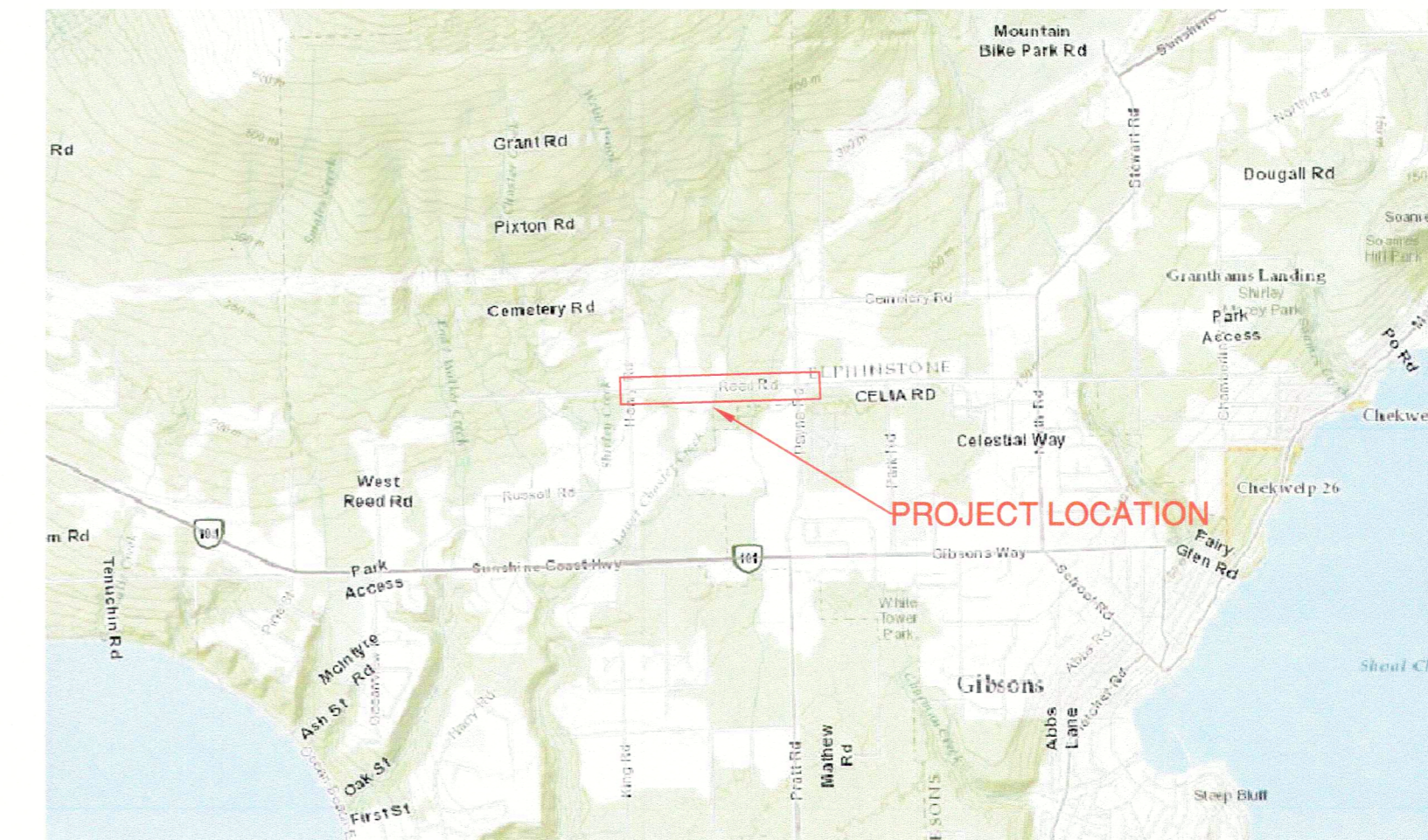
BC Hydro
 8475 128th Street,
 Surrey BC, V3W 0G1
 800 667 1517

TELECOMMUNICATIONS

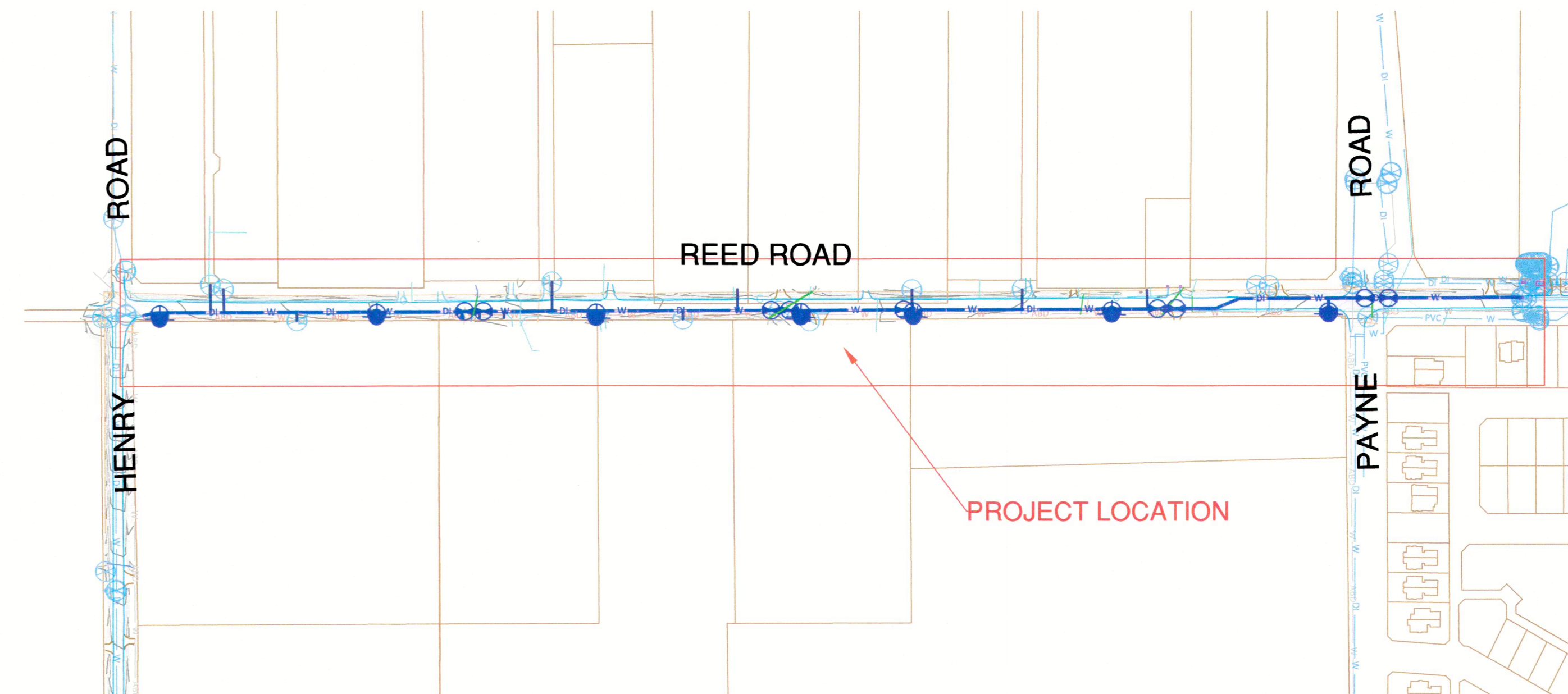
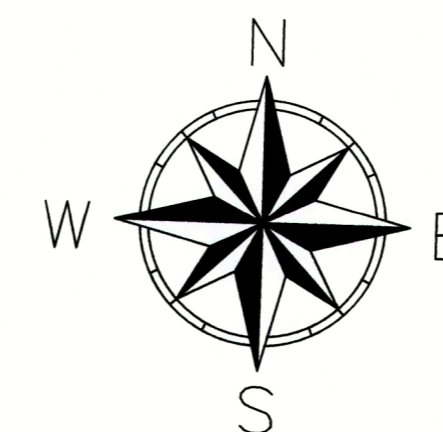
TELUS #1700-13408 108th Ave.
 Surrey BC, V3T 5V6
 604 885 6804

BC-ONE CALL

1-800-474-6886
 INFO@BC1C.CA



SITE LOCATION | NTS



SITE PLAN / NTS

SUNSHINE COAST REGIONAL DISTRICT LEGEND		
OBJECT	EXISTING	PROPOSED
WATER PIPE DUCTILE IRON	DI - W	DI - W
WATER PIPE ASBESTOS CEMENT	AC - W	AC - W
WATER PIPE POLYVINYL CHLORIDE	PVC - W	PVC - W
WATER PIPE ABANDONED	ABO - W	ABO - W
WATER PIPE GALVANIZED STEEL	GALV - W	GALV - W
WATER PIPE TYPE K COPPER	DK - W	DK - W
WATER PIPE HIGH-DENSITY POLYETHYLENE	HDPPE - W	HDPPE - W
WATER SERVICE	SRVC - W	SRVC - W
WATER METER		
WATER VALVE		
HYDRANT		
BLOW-OFF		
SANITARY SEWER	S	S
SANITARY SEWER SERVICE		
FORCEMAIN	SPM	SPM
STORM SEWER	D	D
DRAINAGE FLOW		
CULVERT		
LEGAL LOT LINES		
FENCE LINE		
ROAD EDGE		
ROAD CENTERLINE		
ASPHALT RESTORATION		
ELECTRICAL UNDERGROUND	UE	UE
ELECTRICAL OVERHEAD	OE	OE
COMMUNICATIONS		
GAS	G	G
UTILITY POLE		
MANHOLE SANITARY/STORM		
CLEAN OUT		
IRON PIN		

REVISIONS

REVISION : 0 (AT INITIAL DESIGN STAGE)	2025-04-30
REVISION : 0 (90%)	2025-05-26
REVISION : 0 (IFT)	2026-01-20



SUNSHINE COAST REGIONAL DISTRICT
 INFRASTRUCTURE DEPARTMENT
 PERMIT TO PRACTICE No. 1003260
 1975 Field Road
 Sechelt, BC V0N 3A1
 Ph: 604-885-6800 1-800-687-5753 Fax: 604-885-7909

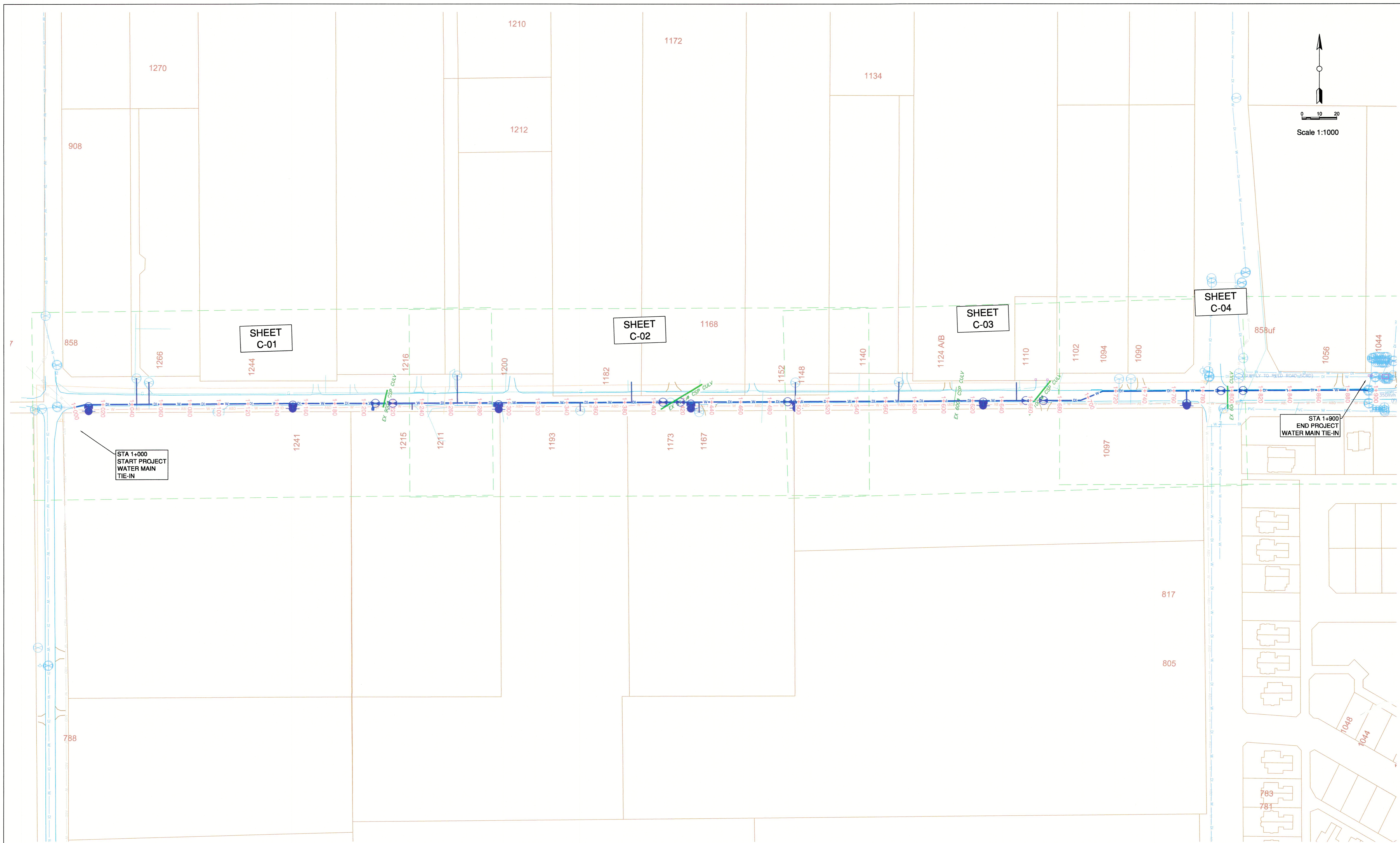
DESIGNED BY:	SM
DRAWN BY:	MM
CHECKED BY:	SM
APPROVED BY:	JW

WATER MAIN REPLACEMENT REED ROAD, HENRY TO REED ROAD PUMP STATION


DRAWING :
COVER SHEET

SEAL :

WORK ORDER NO.	116364
DRAWING NO:	G-01
SHEET NO :	01 of 09



REVISIONS	
REVISION : 0 (AT INITIAL DESIGN STAGE)	2025-04-30
REVISION : 0 (90%)	2025-05-26
REVISION : 0 (IFT)	2026-01-20



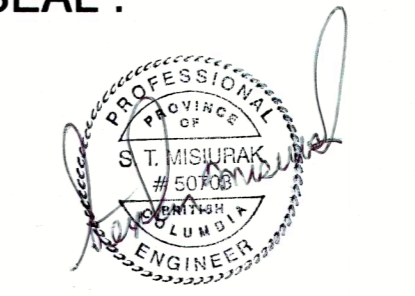
SUNSHINE COAST REGIONAL DISTRICT
 INFRASTRUCTURE DEPARTMENT
 PERMIT TO PRACTICE No. 1003260
 1975 Field Road
 Sechelt, BC V0N 3A1
 Ph: 604-885-6800 1-800-687-5753 Fax: 604-885-7909

DESIGNED BY:	SM
DRAWN BY:	MM
CHECKED BY:	SM
APPROVED BY:	JW

WATERMAIN REPLACEMENT
REED ROAD, HENRY ROAD TO REED ROAD PUMP STATION

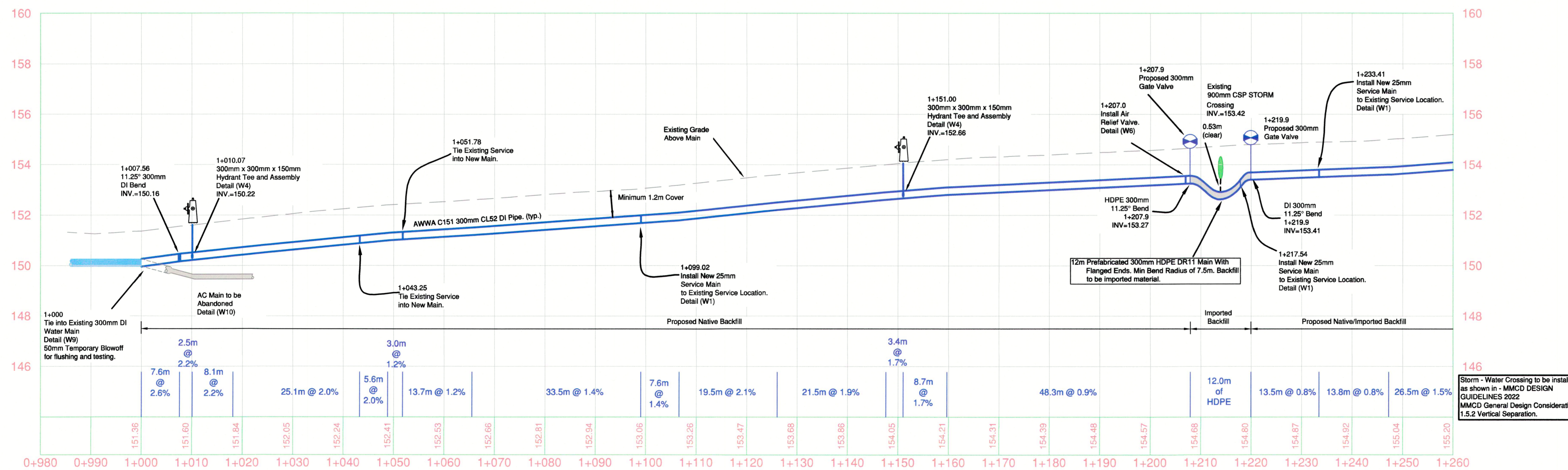
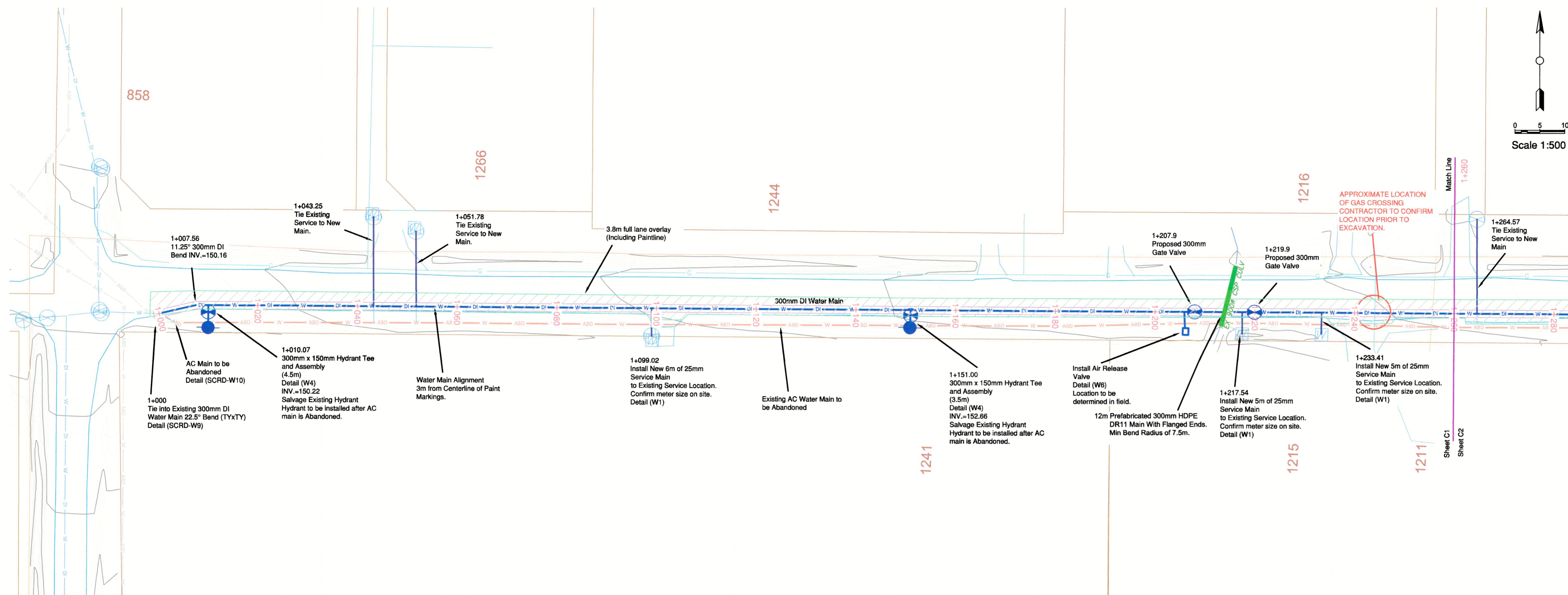
DRAWING :
KEY PLAN

SEAL :

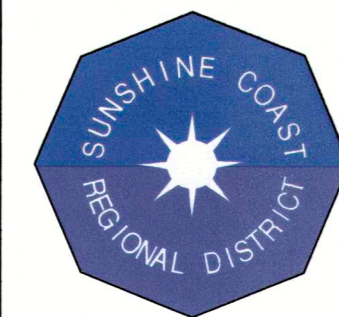


2026-01-27

WORK ORDER NO.	116364
DRAWING NO:	G-02
SHEET NO :	02 of 09



REVISIONS	
REVISION : 0 (AT INITIAL DESIGN STAGE)	2025-04-30
REVISION : 0 (90%)	2025-05-26
REVISION : 0 (IFT)	2026-01-20



**SUNSHINE COAST
REGIONAL DISTRICT**
INFRASTRUCTURE DEPARTMENT
PERMIT TO PRACTICE No. 1003260
1975 Field Road
Sechelt, BC V0N 3A1
Ph: 604-885-6800 1-800-687-5753 Fax: 604-885-7909

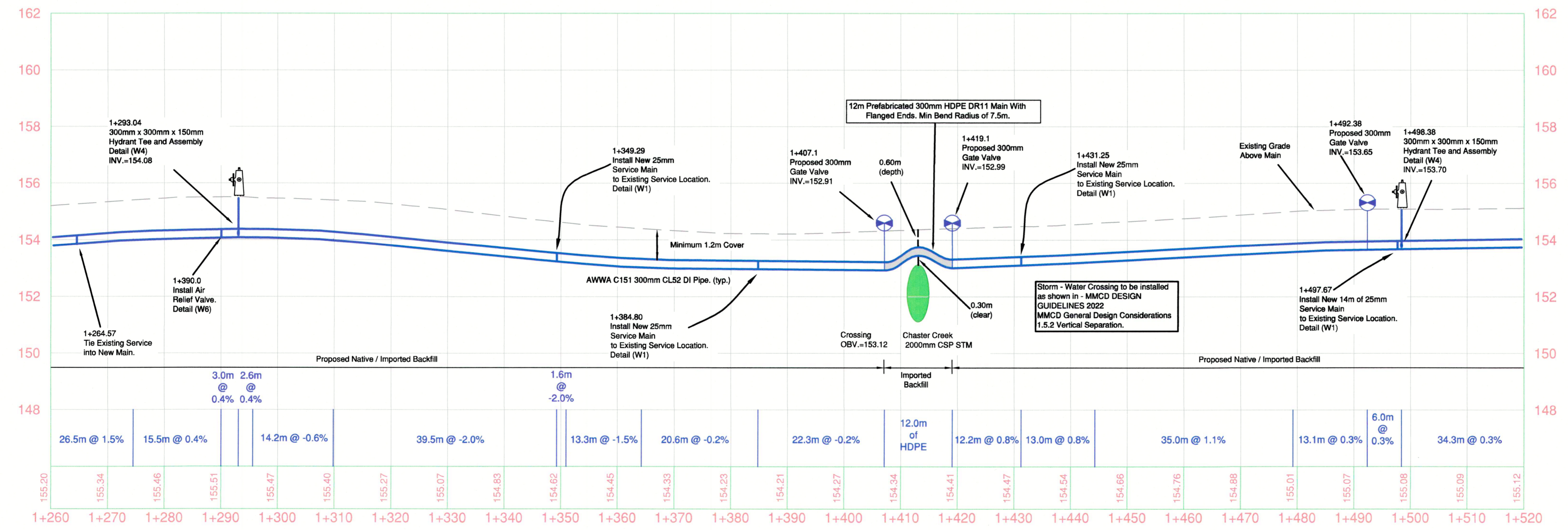
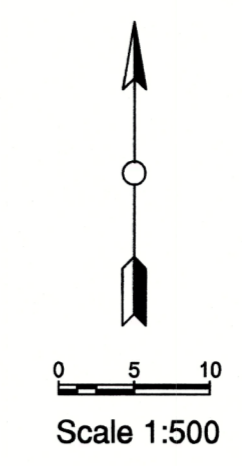
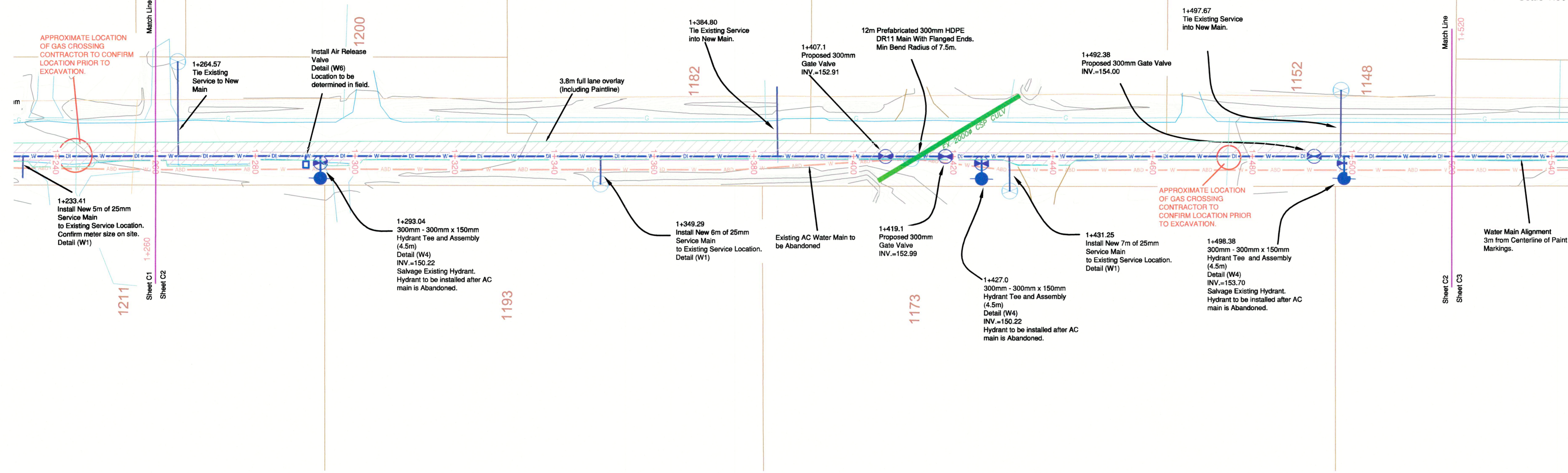
DESIGNED BY:	SM
DRAWN BY:	MM
CHECKED BY:	SM
APPROVED BY:	JW

**WATERMAIN
REPLACEMENT
REED ROAD,
HENRY ROAD TO
REED ROAD
PUMP STATION**

DRAWING :
**PLAN & PROFILE
STA 1+000 TO 1+260**



WORK ORDER NO.	116364
DRAWING NO:	C-01
SHEET NO :	03 of 09



REVISIONS	
REVISION : 0 (AT INITIAL DESIGN STAGE)	2025-04-30
REVISION : 0 (90%)	2025-05-26
REVISION : 0 (IFT)	2026-01-20



SUNSHINE COAST REGIONAL DISTRICT
 INFRASTRUCTURE DEPARTMENT
 PERMIT TO PRACTICE No. 1003260
 1975 Field Road
 Sechelt, BC V0N 3A1
 Ph: 604-885-6800 1-800-687-5753 Fax: 604-885-7909

DESIGNED BY:	SM
DRAWN BY:	MM
CHECKED BY:	SM
APPROVED BY:	JW

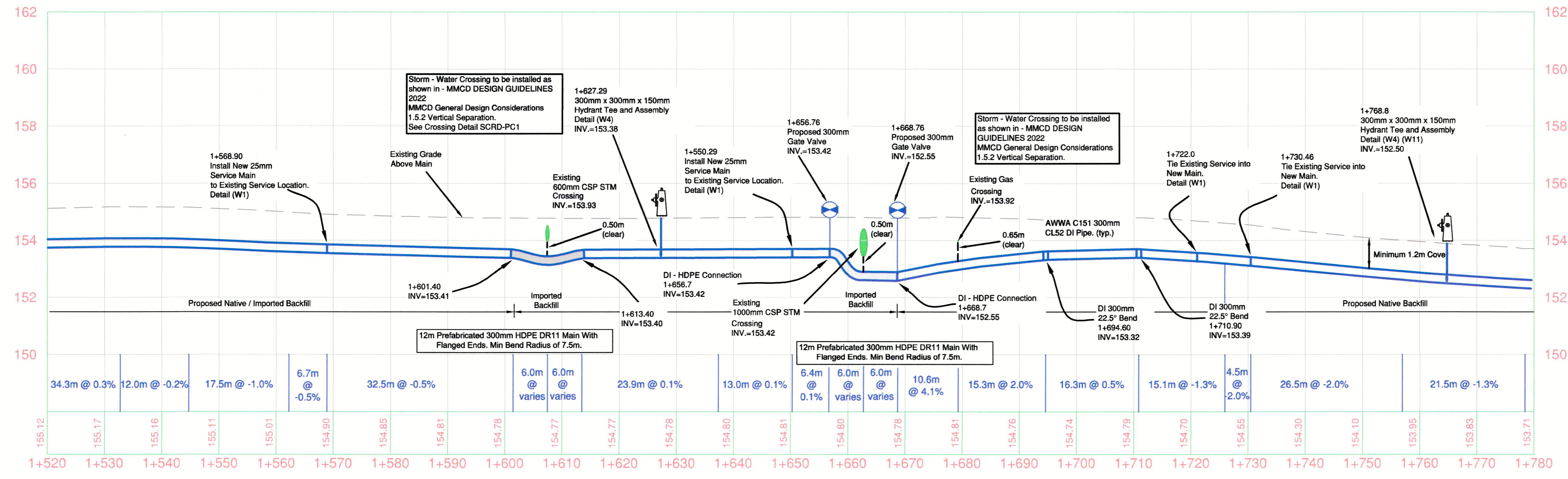
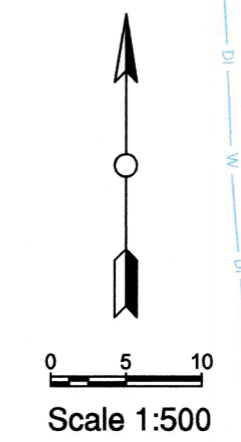
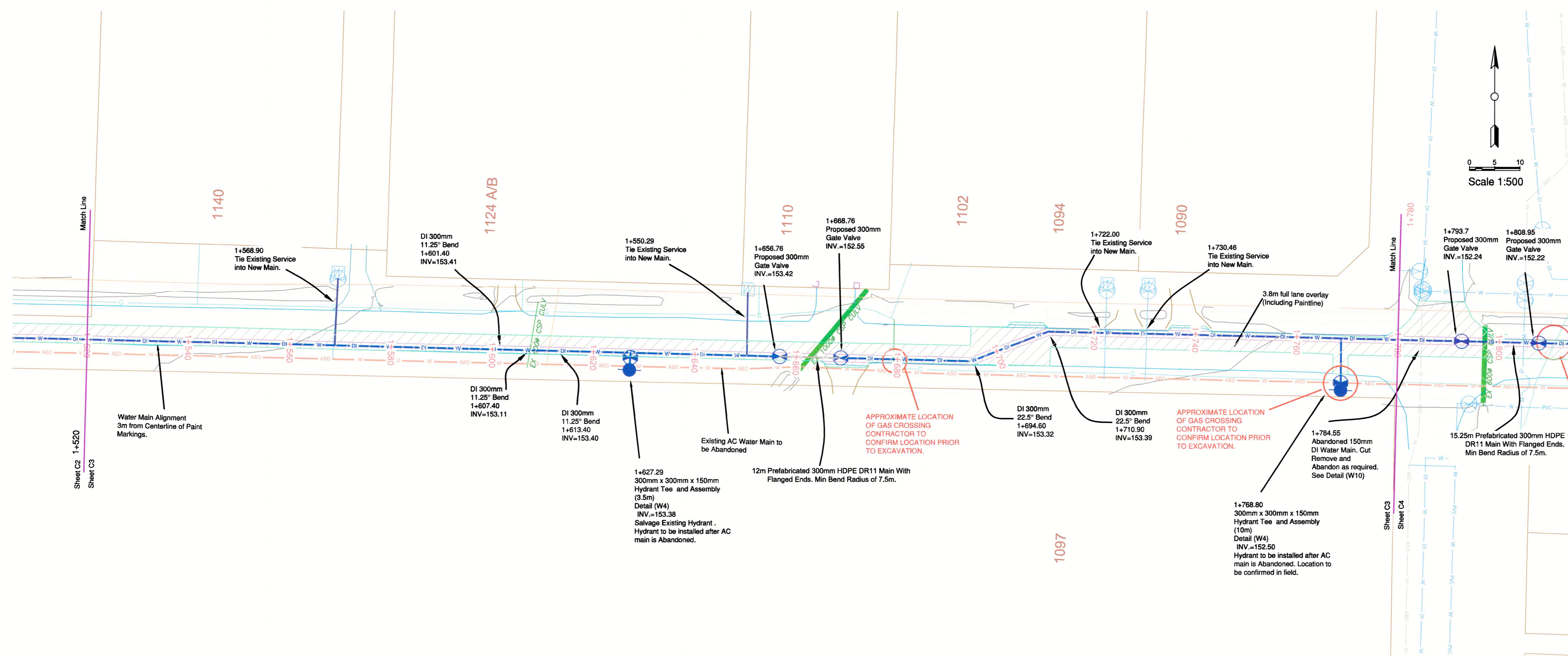
**WATERMAIN REPLACEMENT
 REED ROAD,
 HENRY ROAD TO
 REED ROAD
 PUMP STATION**

DRAWING :
**PLAN & PROFILE
 STA 1+260 TO 1+520**


SEAL :

 2025-04-27

WORK ORDER NO.	116364
DRAWING NO:	C-02
SHEET NO :	04 of 09



REVISIONS	
REVISION : 0 (AT INITIAL DESIGN STAGE)	2025-04-30
REVISION : 0 (90%)	2025-05-26
REVISION : 0 (IFT)	2026-01-20




SUNSHINE COAST REGIONAL DISTRICT
 INFRASTRUCTURE DEPARTMENT
 PERMIT TO PRACTICE No. 1003260
 1975 Field Road
 Sechelt, BC V0N 3A1
 Ph: 604-885-6800 1-800-687-5753 Fax: 604-885-7909

DESIGNED BY:	SM
DRAWN BY:	MM
CHECKED BY:	SM
APPROVED BY:	JW

**WATERMAIN REPLACEMENT
 REED ROAD,
 HENRY ROAD TO
 REED ROAD
 PUMP STATION**

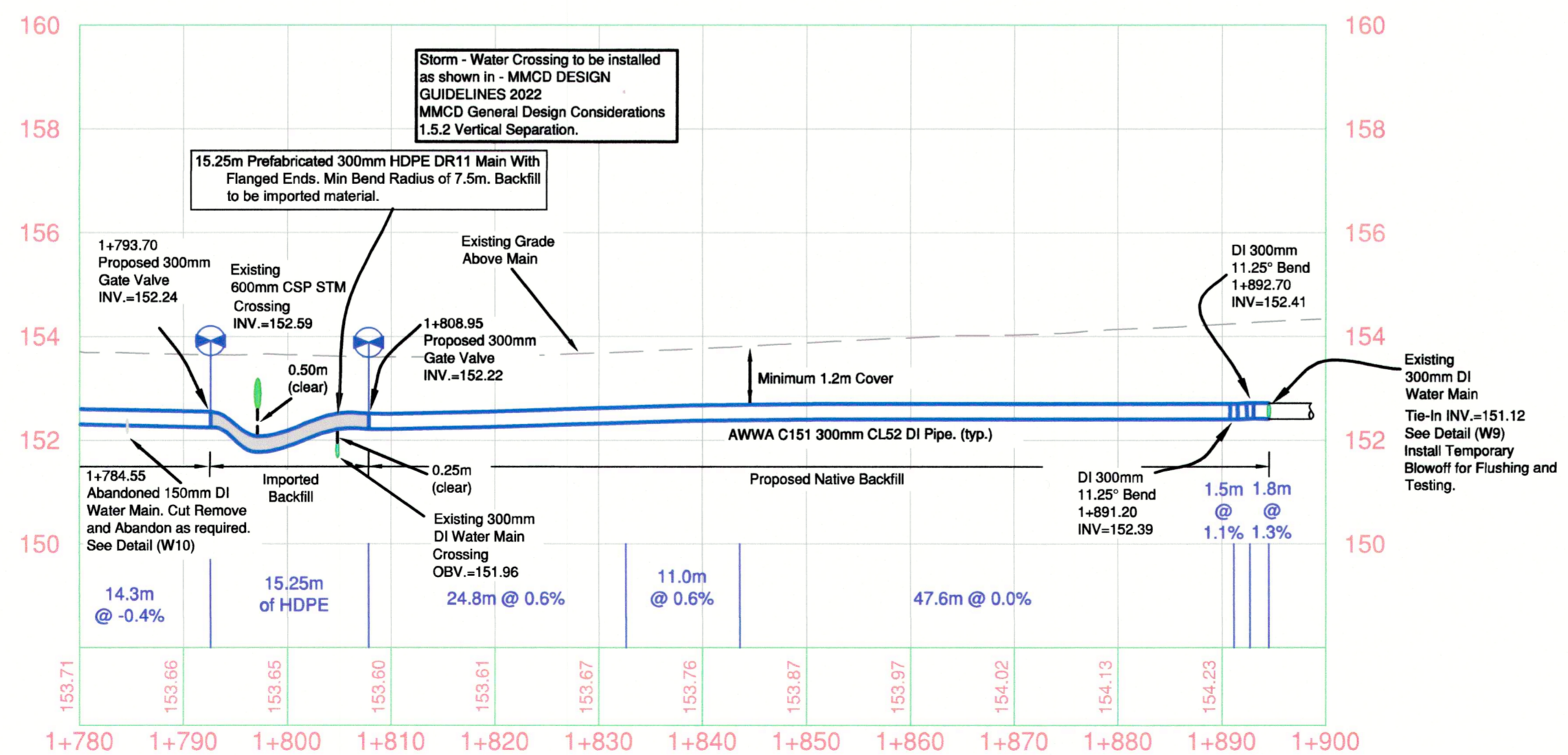
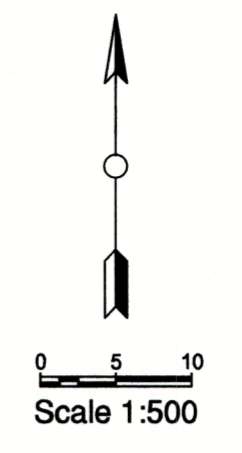
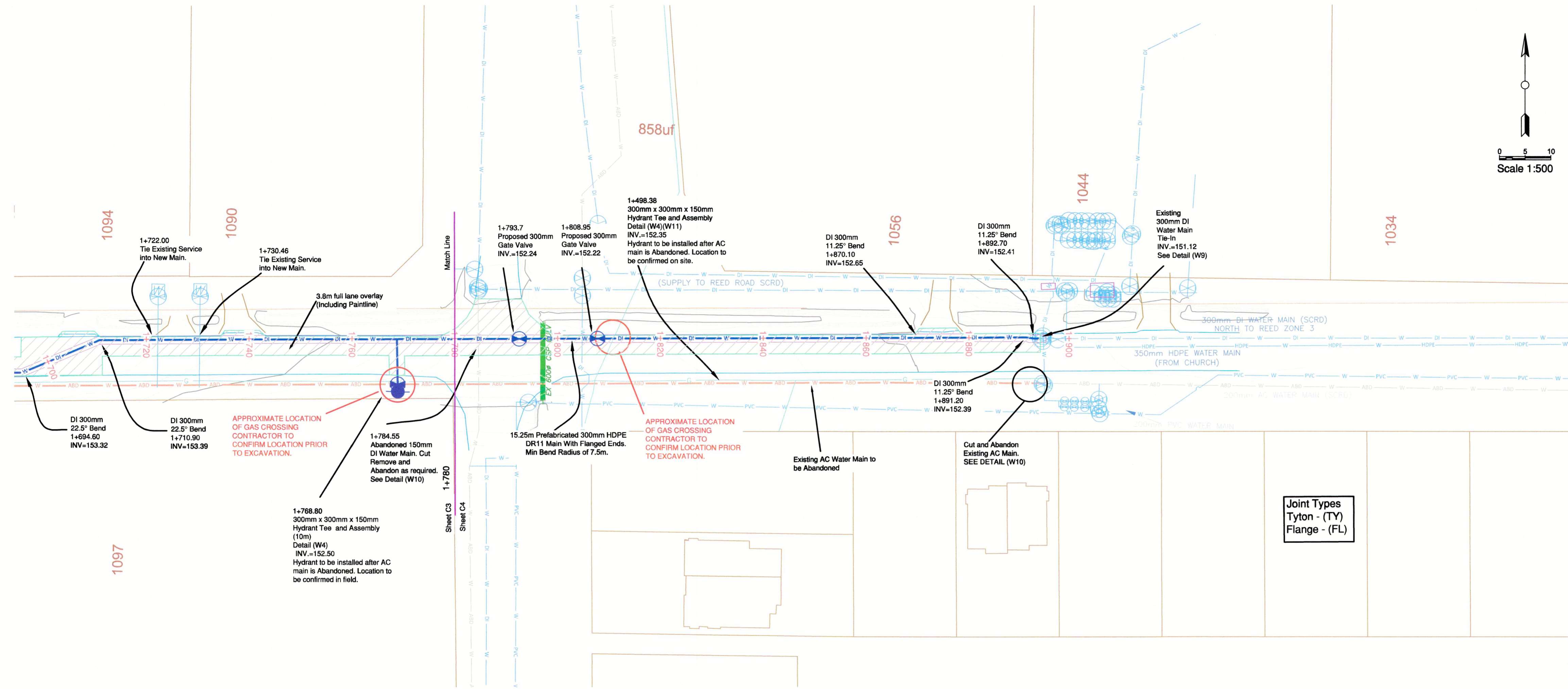
DRAWING :
**PLAN & PROFILE
 STA 1+520 TO 1+780**

SEAL :



2026-04-27

WORK ORDER NO.	116364
DRAWING NO:	C-03
SHEET NO :	05 of 09



REVISIONS	
REVISION : 0 (AT INITIAL DESIGN STAGE)	2025-04-30
REVISION : 0 (90%)	2025-05-26
REVISION : 0 (IFT)	2026-01-20



SUNSHINE COAST REGIONAL DISTRICT
 INFRASTRUCTURE DEPARTMENT
 PERMIT TO PRACTICE No. 1003260
 1975 Field Road
 Sechelt, BC V0N 3A1
 Ph: 604-885-6800 1-800-687-5753 Fax: 604-885-7909

DESIGNED BY:	SM
DRAWN BY:	MM
CHECKED BY:	SM
APPROVED BY:	JW

WATERMAIN REPLACEMENT REED ROAD, HENRY ROAD TO REED ROAD PUMP STATION


DRAWING : **PLAN & PROFILE STA 1+780 TO 1+900**

SEAL :

WORK ORDER NO.	116364
DRAWING NO:	C-04
SHEET NO :	06 of 09



REVISIONS	
REVISION : 0 (AT INITIAL DESIGN STAGE)	2025-04-30
REVISION : 0 (90%)	2025-05-26
REVISION : 0 (IFT)	2026-01-20




SUNSHINE COAST REGIONAL DISTRICT
INFRASTRUCTURE DEPARTMENT
 PERMIT TO PRACTICE No. 1003260
 1975 Field Road
 Sechelt, BC V0N 3A1
 Ph: 604-885-6800 1-800-687-5753 Fax: 604-885-7909

DESIGNED BY:	SM
DRAWN BY:	MM
CHECKED BY:	SM
APPROVED BY:	JW

WATERMAIN REPLACEMENT
REED ROAD,
HENRY ROAD TO
REED ROAD
PUMP STATION

DRAWING :
PAVEMENT RESTORATION

SEAL :



2026-01-27

WORK ORDER NO.	116364
DRAWING NO:	C-05
SHEET NO :	07 of 09

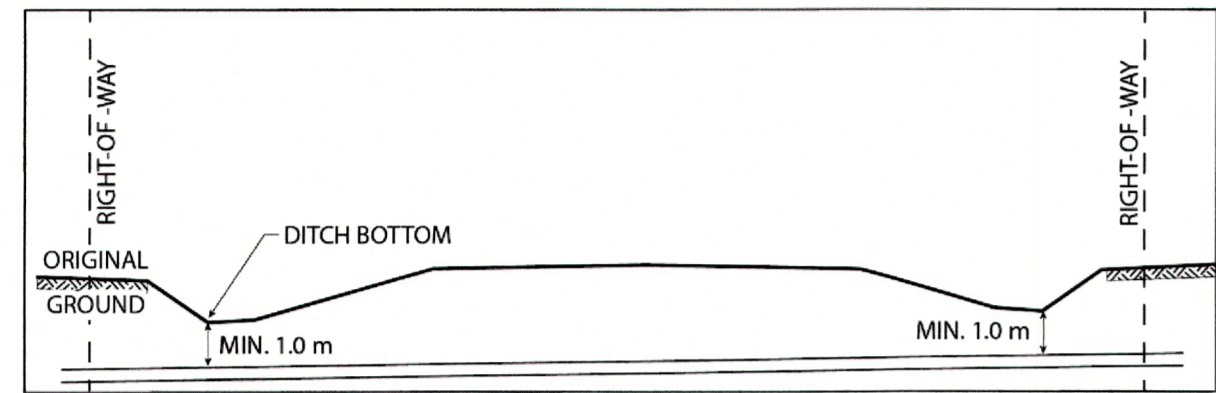
SUPPLEMENTARY DETAIL

TYPICAL COVER DEPTH AND VERTICAL ALIGNMENT REQUIREMENT

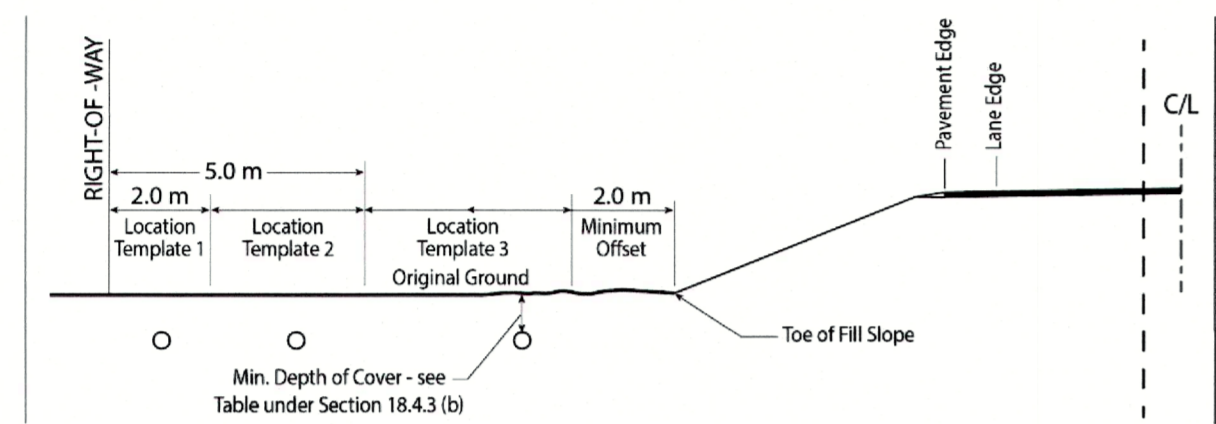
UPM 2019, SECTION 18.0, TABLE 18-1: DEPTH OF COVER FOR WATER AND SEWER LINES

PIPELINE PRESSURE	UNDER PAVEMENT AND SHOULDER	DEIGN DITCH BOTTOM	ELSEWHERE IN THE RIGHT OF WAY (ROW)
GRATER THAN 1,380 kPa (200 psi)	1.20m	1.00m	1.00m
LESS THAN OR EQUAL TO 1,380 kPa (200 psi)	1.20m	1.00m	0.75m

UPM 2019, SECTION 18.0, FIGURE 18-1: EXAMPLE WATER AND SEWER LINE CROSSING DIAGRAM



UPM 2019, SECTION 18.7, 18.7.2 LOCATION TEMPLATES 1, 2, AND 3 - FILL



NOTE: PLEASE REFER TO RELEVANT SECTIONS FOR EXCEPTIONS, PROHIBITIONS, SPECIAL CASES/SCENARIOS, APPROVAL SEEKING PROCESS & OTHER RELEVANT GUIDELINES

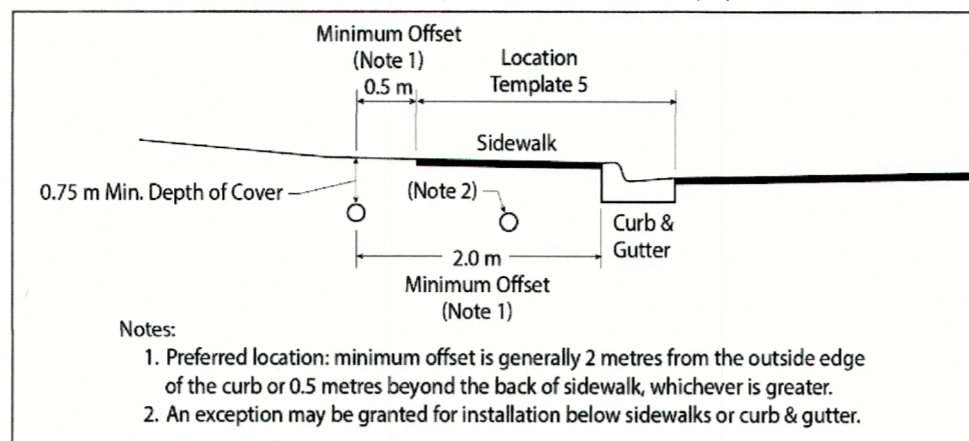
MOTT TYPICAL REQUIREMENTS

DRAWING NUMBER: **MOTT2**

SUPPLEMENTARY DETAIL

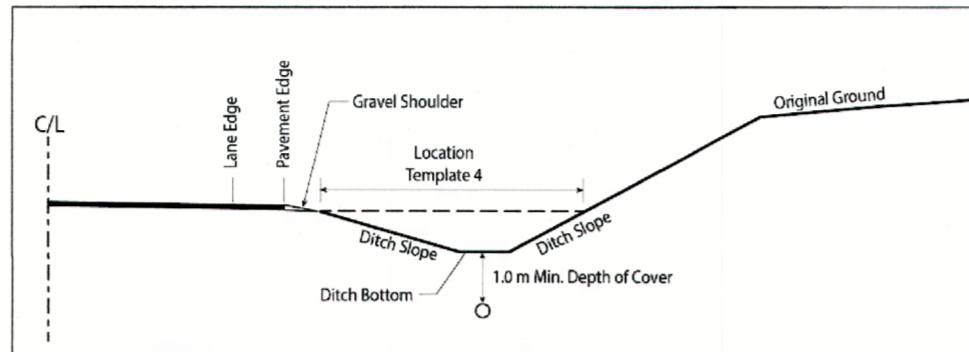
TYPICAL VERTICAL ALIGNMENT REQUIREMENT

UPM 2019, SECTION 18.7, 18.7.3 TEMPLATE 1, 2, AND 3 - CUT

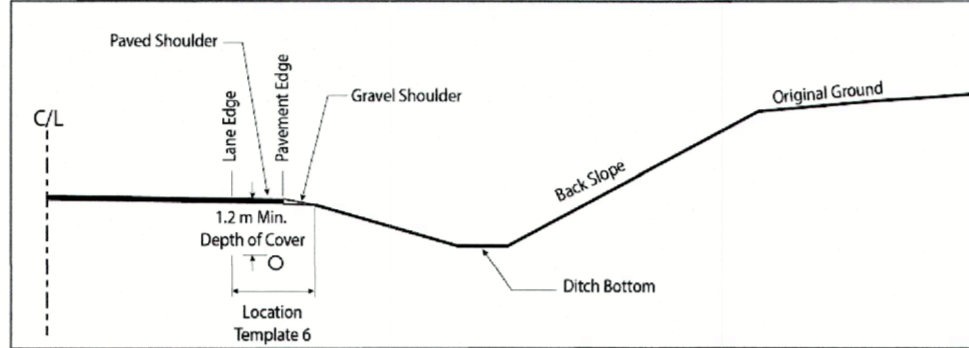


Notes:
1. Preferred location: minimum offset is generally 2 metres from the outside edge of the curb or 0.5 metres beyond the back of sidewalk, whichever is greater.
2. An exception may be granted for installation below sidewalks or curb & gutter.

UPM 2019, SECTION 18.8, 18.8.2 TEMPLATE 4 - UNDER DITCHES



UPM 2019, SECTION 18.8, 18.8.4 TEMPLATE 6 - UNDER SHOULDERS

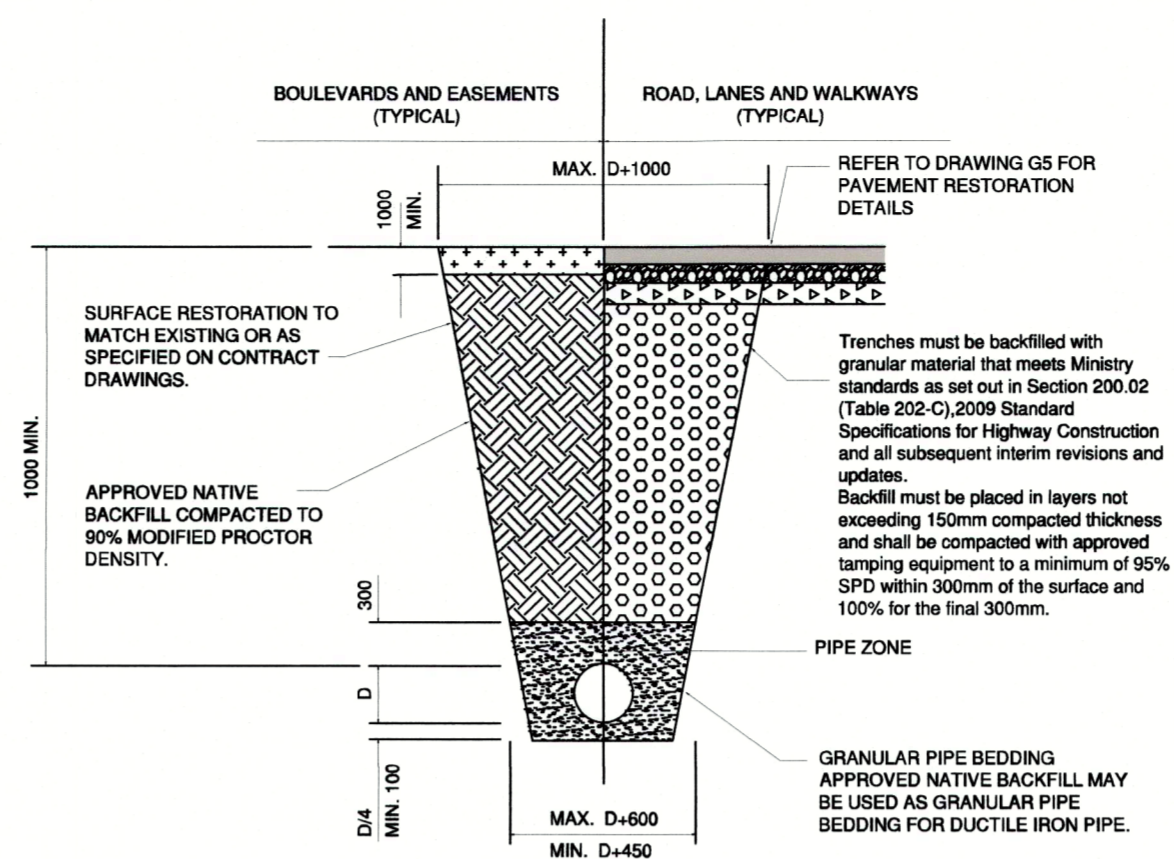


NOTE: PLEASE REFER TO RELEVANT SECTIONS FOR EXCEPTIONS, PROHIBITIONS, SPECIAL CASES/SCENARIOS, APPROVAL SEEKING PROCESS & OTHER RELEVANT GUIDELINES

MOTT TYPICAL REQUIREMENTS

DRAWING NUMBER: **MOTT3**

SUPPLEMENTARY DETAIL

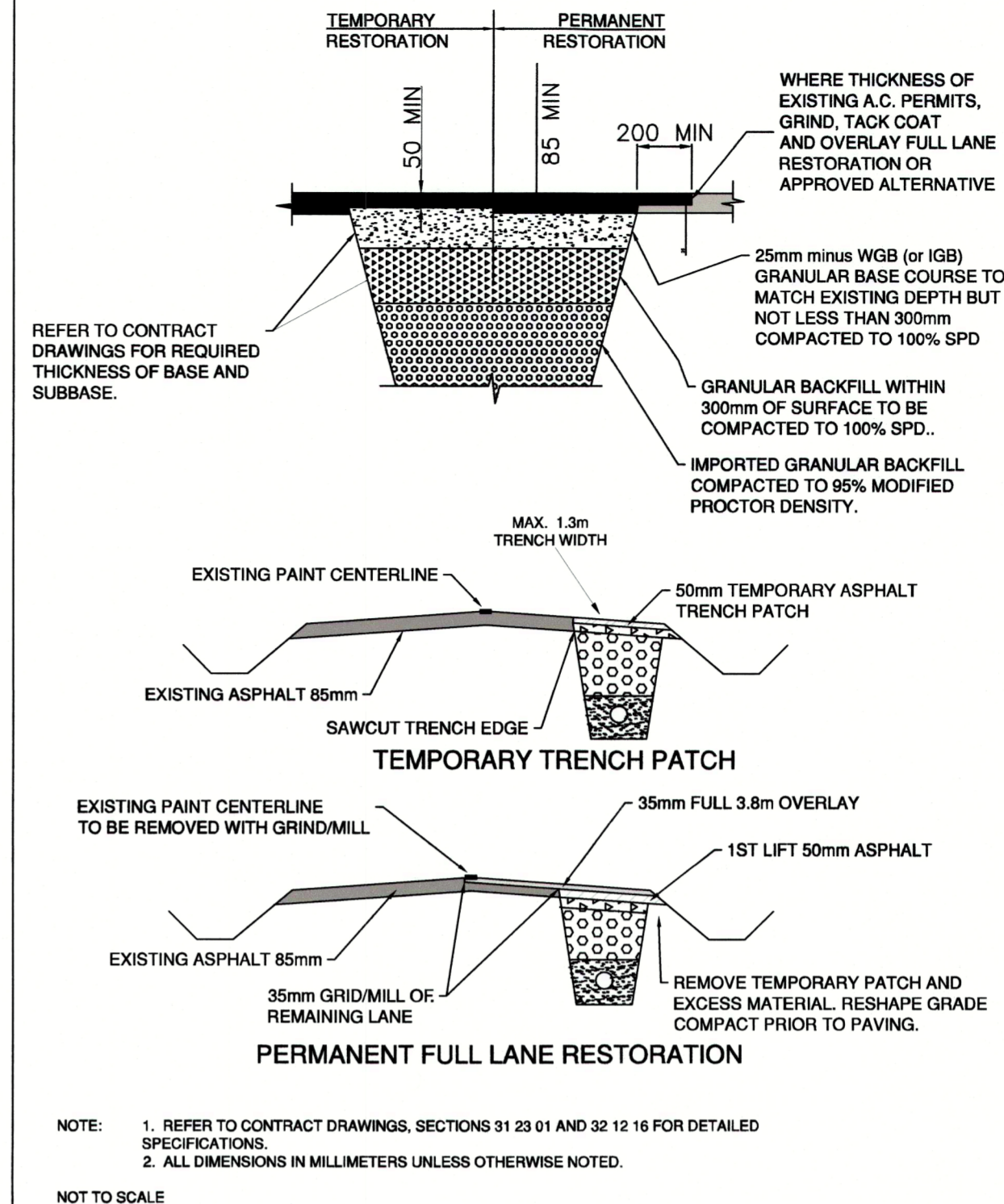


NOTE:
1. TRENCHING TO COMPLY WITH ALL REQUIREMENTS OF WORKSAFE BC.
2. REFER TO CONTRACT DRAWINGS, SECTION 31 23 01 FOR DETAILED SPECIFICATIONS.
3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

UTILITY TRENCH

DRAWING NUMBER: **G4**

SUPPLEMENTARY DETAIL

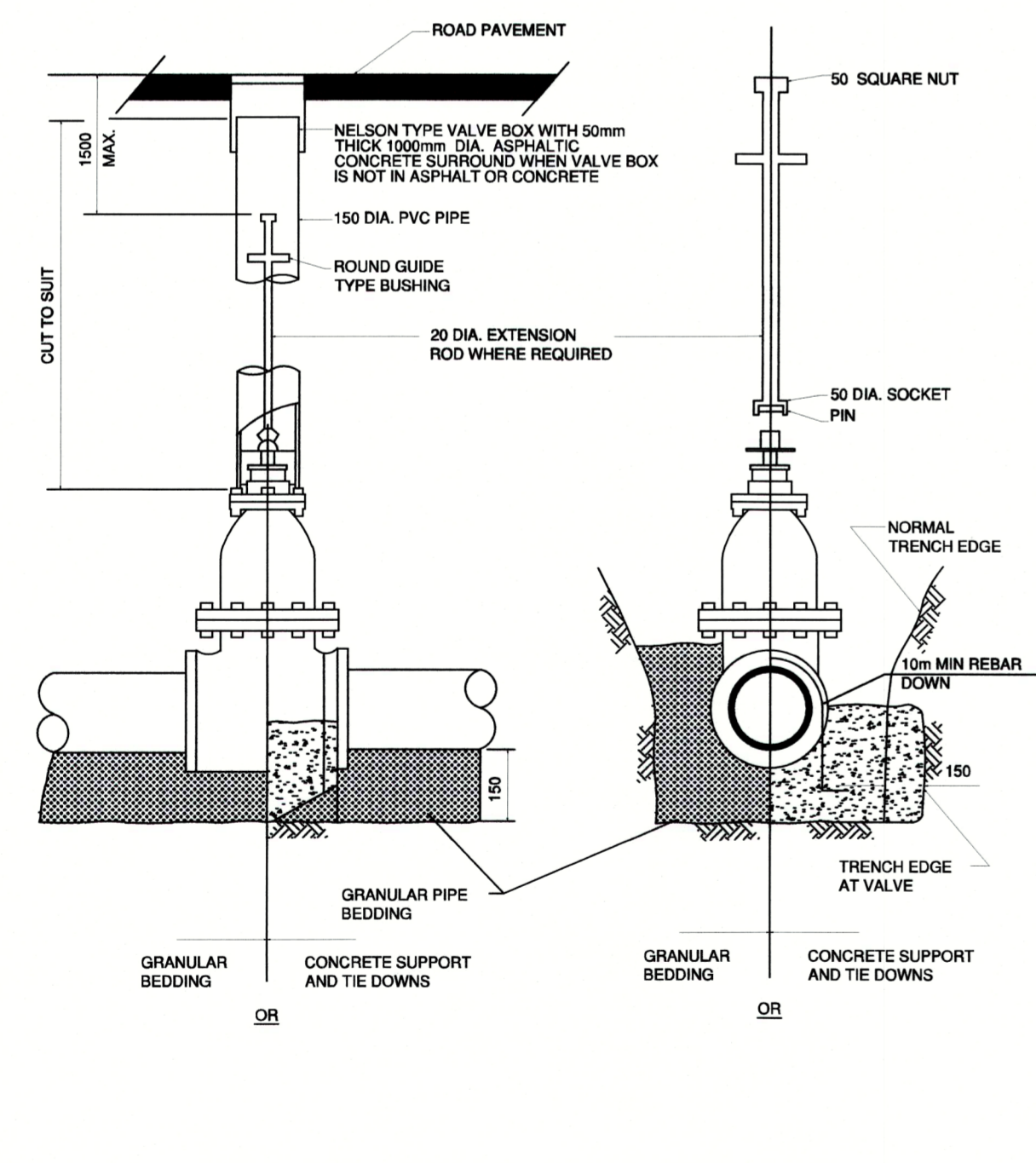


NOTE:
1. REFER TO CONTRACT DRAWINGS, SECTIONS 31 23 01 AND 32 12 16 FOR DETAILED SPECIFICATIONS.
2. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

PAVEMENT RESTORATION

DRAWING NUMBER: **G5**

SUPPLEMENTARY DETAIL

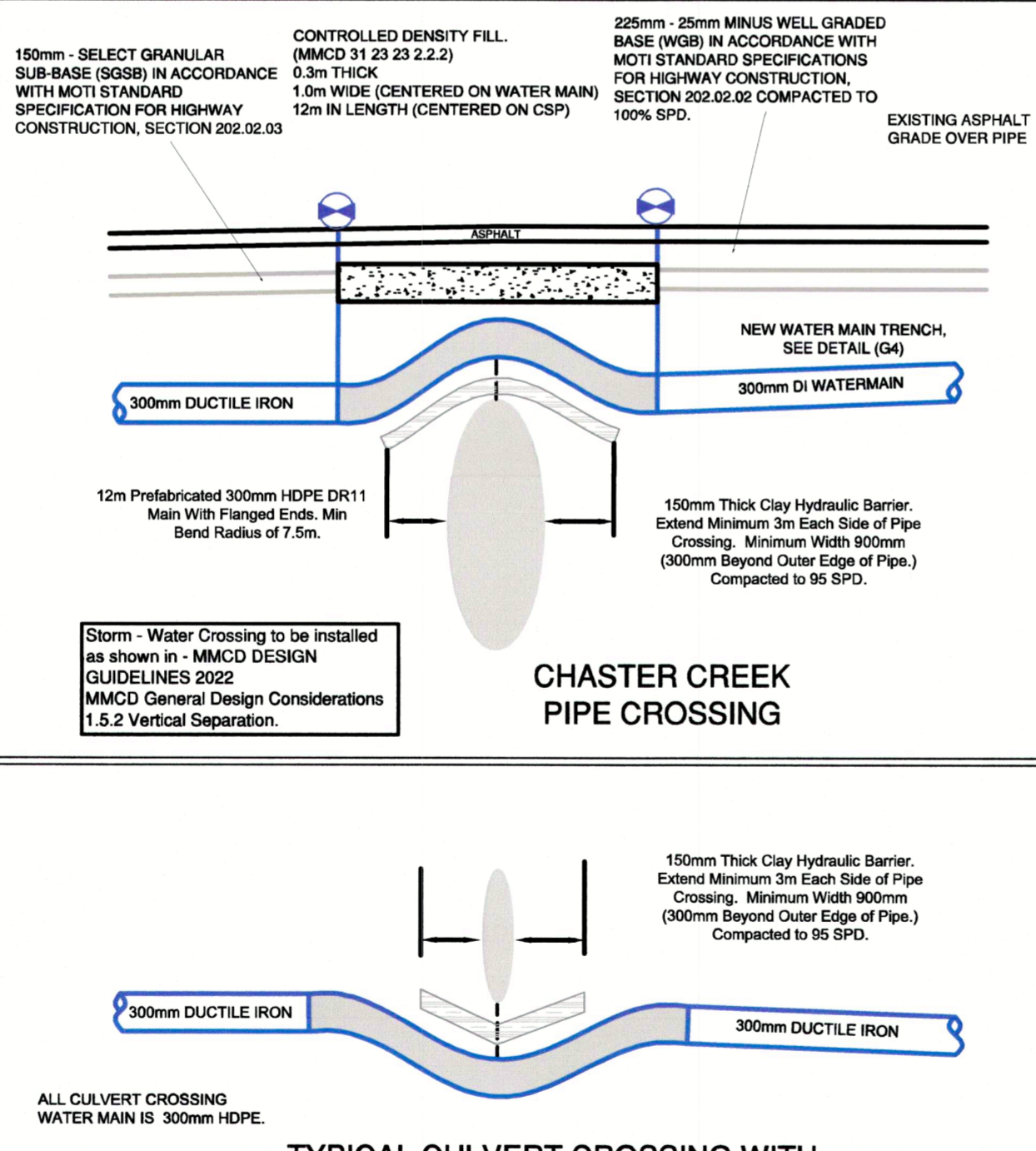


NOTE:
1. REFER TO CONTRACT DRAWINGS FOR VALVE INSTALLATION DETAILS IN AREAS OF UNSTABLE GROUND (WHERE APPLICABLE).
2. REFER TO CONTRACT DRAWINGS AND SECTION 02666 FOR DETAILED SPECIFICATIONS.

GATE VALVE INSTALLATION

DRAWING NUMBER: **W3**

SUPPLEMENTARY DETAIL

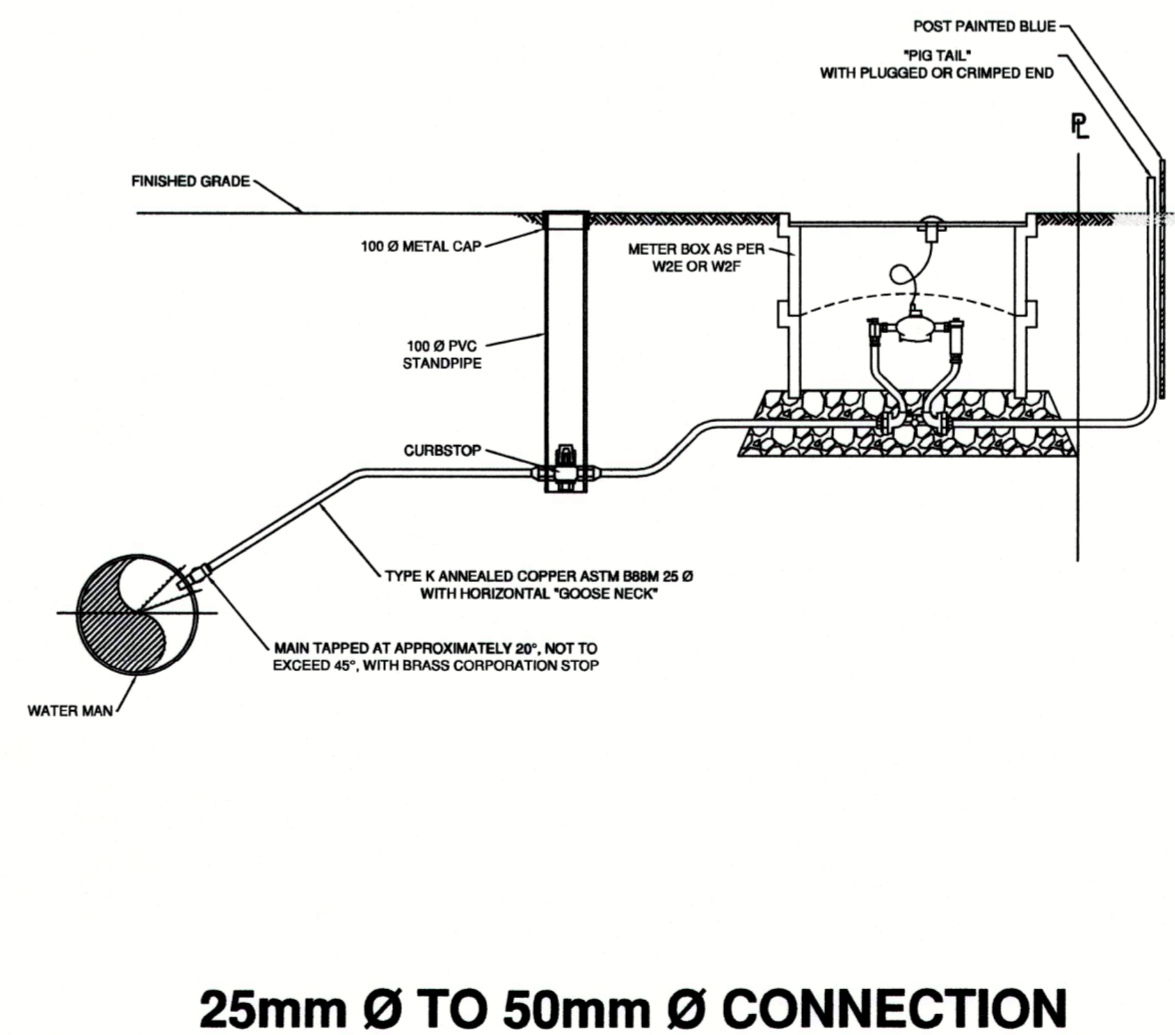


NOTE:
1. REFER TO CONTRACT DRAWINGS FOR VALVE INSTALLATION DETAILS IN AREAS OF UNSTABLE GROUND (WHERE APPLICABLE).
2. REFER TO CONTRACT DRAWINGS AND SECTION 02666 FOR DETAILED SPECIFICATIONS.

PIPE CROSSINGS

DRAWING NUMBER: **SCRD-PC1**

SUPPLEMENTARY DETAIL

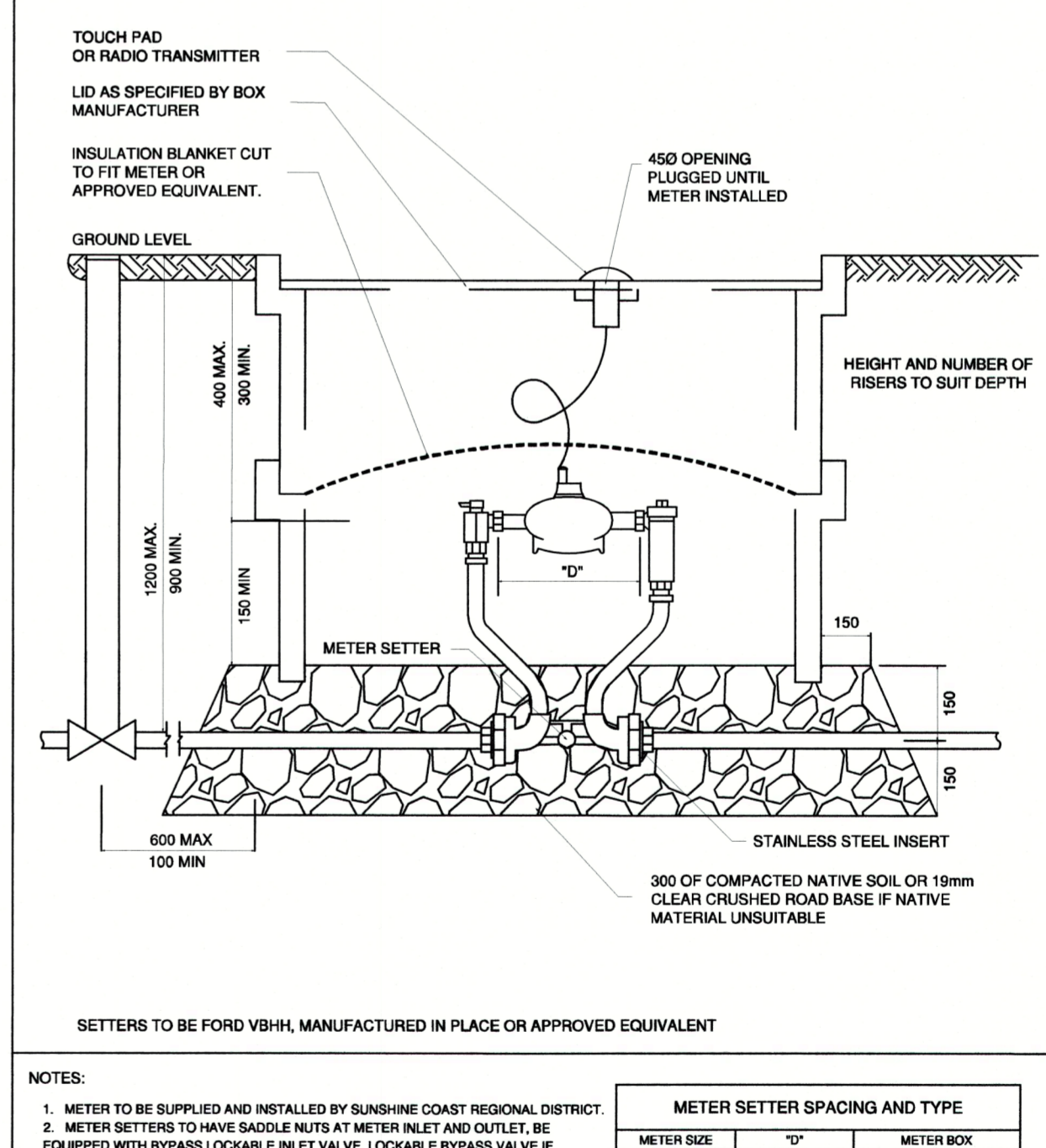


NOTE:
1. WATER SERVICE CONNECTIONS SHALL BE AT LEAST 3.0m AWAY FROM PARALLEL SEWER SERVICE CONNECTIONS.
2. ALL MEASUREMENTS IN MILLIMETERS UNLESS STATED OTHERWISE.

WATER SERVICE CONNECTION

DRAWING NUMBER: **W1**

SUPPLEMENTARY DETAIL



NOTE:
1. METER TO BE SUPPLIED AND INSTALLED BY SUNSHINE COAST REGIONAL DISTRICT.
2. METER SETTERS TO HAVE SADDLE NUTS AT METER INLET AND OUTLET, BE EQUIPPED WITH BYPASS LOCKABLE INLET VALVE, LOCKABLE BYPASS VALVE IF APPLICABLE, AND CHECK VALVE OUTLET.
3. METER BOX TO BE ARMTIC AS UTILITY BOX OR APPROVED EQUIVALENT.
4. REFER TO DRAWING NUMBER W09 FOR DETAIL OF SERVICE CONNECTION.
5. ALL MEASUREMENTS IN MILLIMETERS UNLESS STATED OTHERWISE.

METER INSTALLATION IN VEHICULAR TRAFFIC AREAS

DRAWING NUMBER: **W2E**

REVISIONS

REVISION : 0 (AT INITIAL DESIGN STAGE)	2025-04-30
REVISION : 0 (90%)	2025-05-26
REVISION : 0 (IFT)	2026-01-20



SUNSHINE COAST REGIONAL DISTRICT

INFRASTRUCTURE DEPARTMENT
PERMIT TO PRACTICE No. 1003260

1975 Field Road
Sechelt, BC V0N 3A1
Ph: 604-885-6800 1-800-687-5753 Fax: 604-885-7909

DESIGNED BY:	SM
DRAWN BY:	MM
CHECKED BY:	SM
APPROVED BY:	JW

WATERMAIN REPLACEMENT REED ROAD, HENRY ROAD TO REED ROAD PUMP STATION

DRAWING : **STANDARD DETAILS**

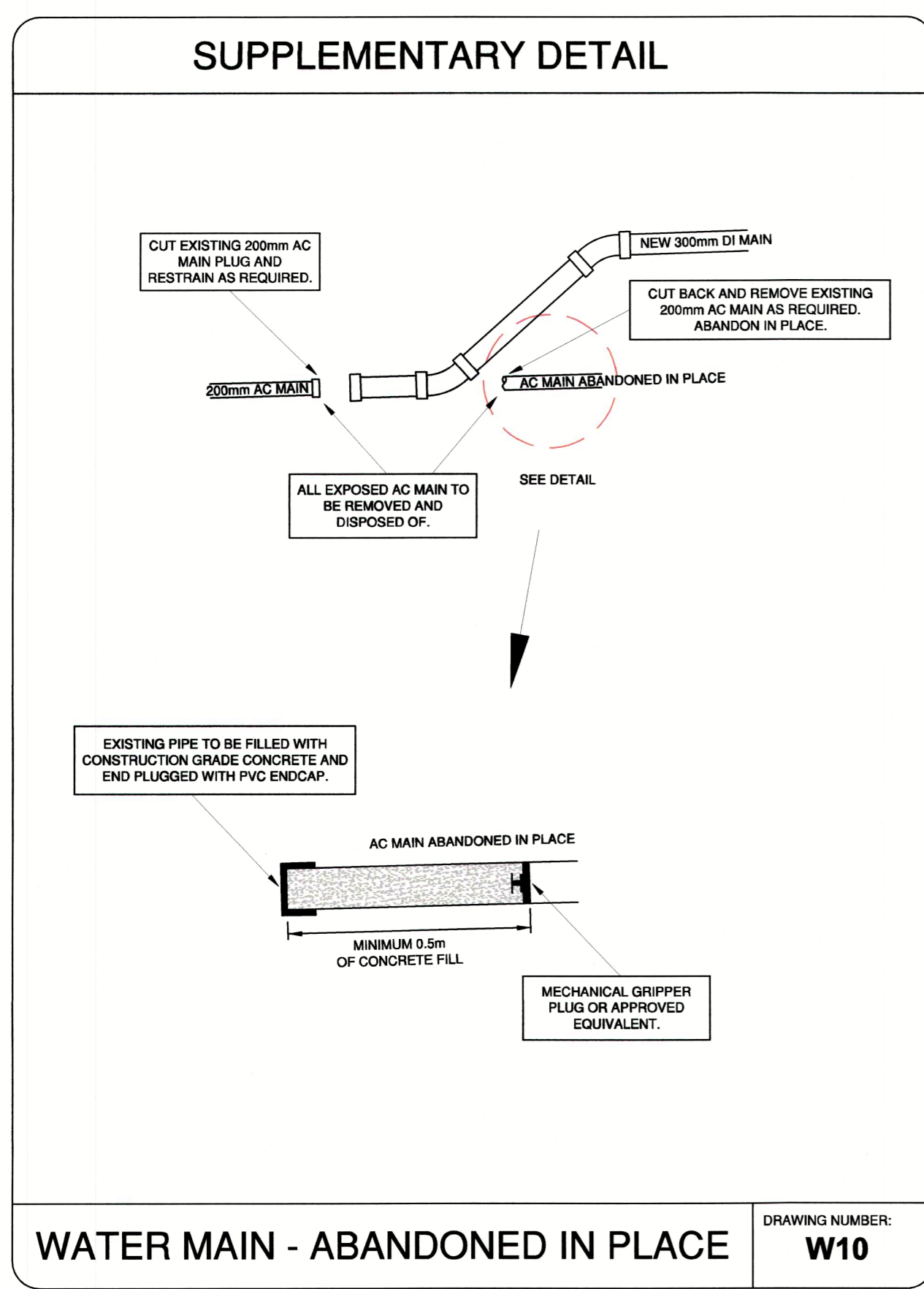
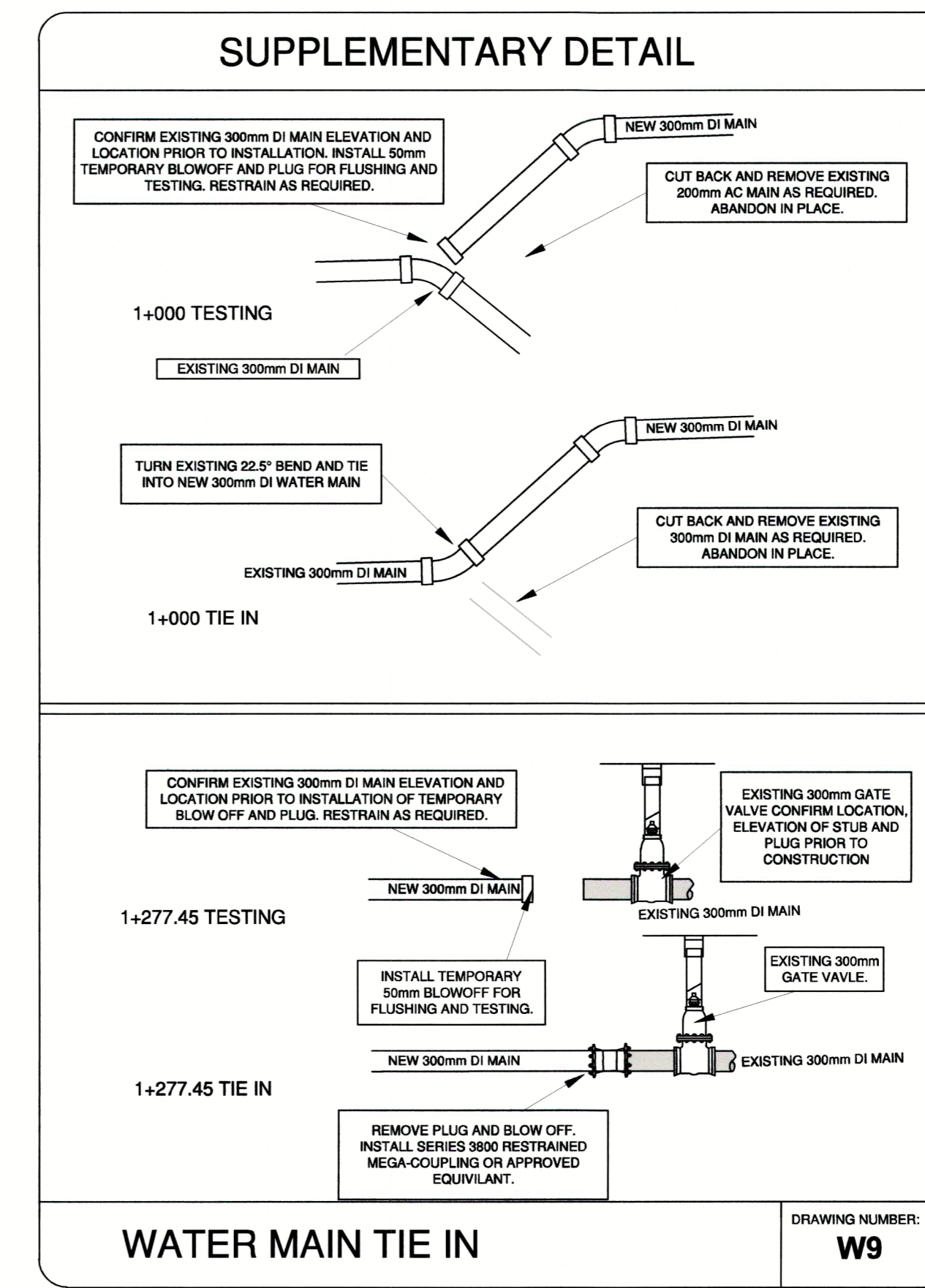
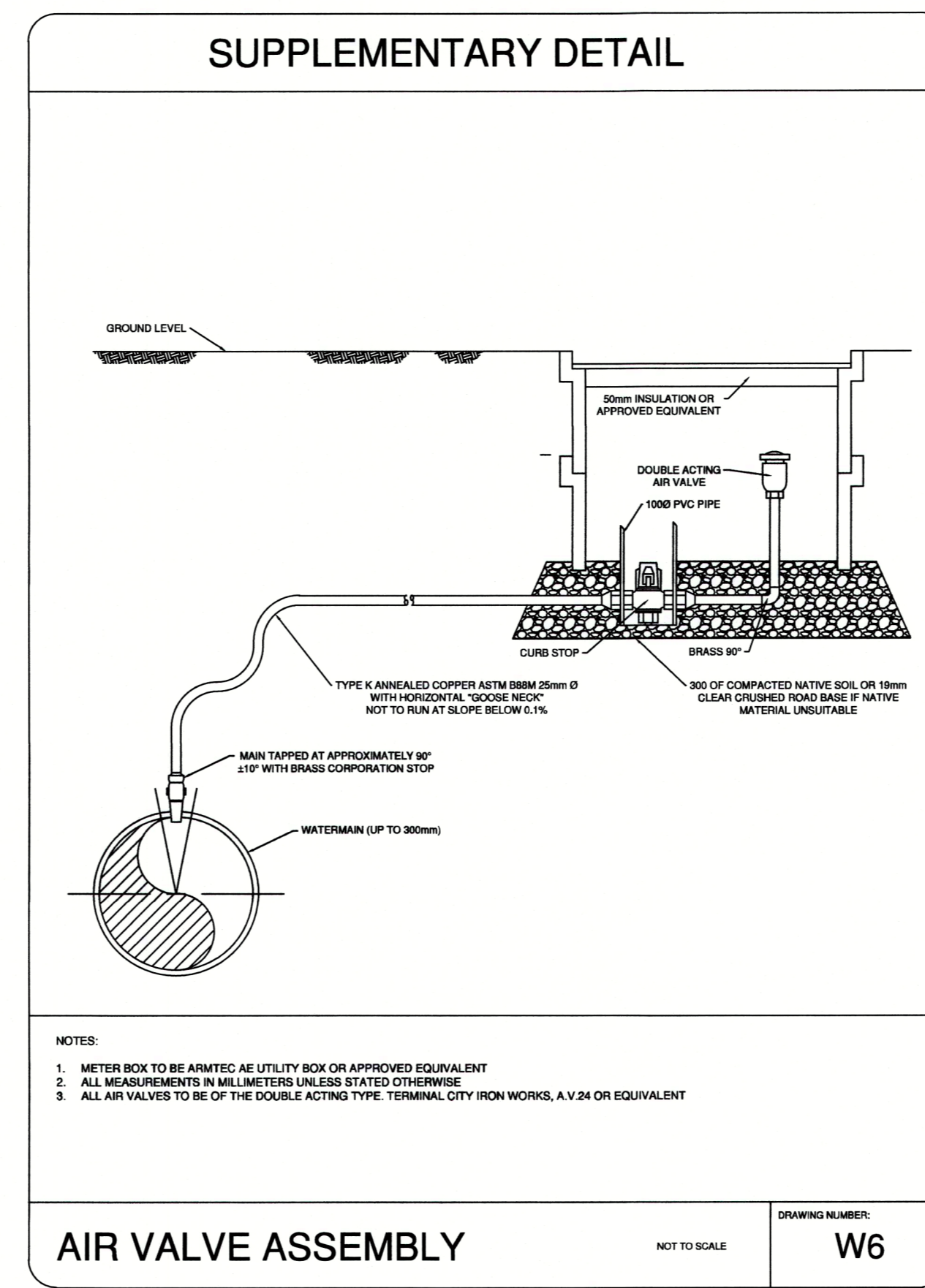
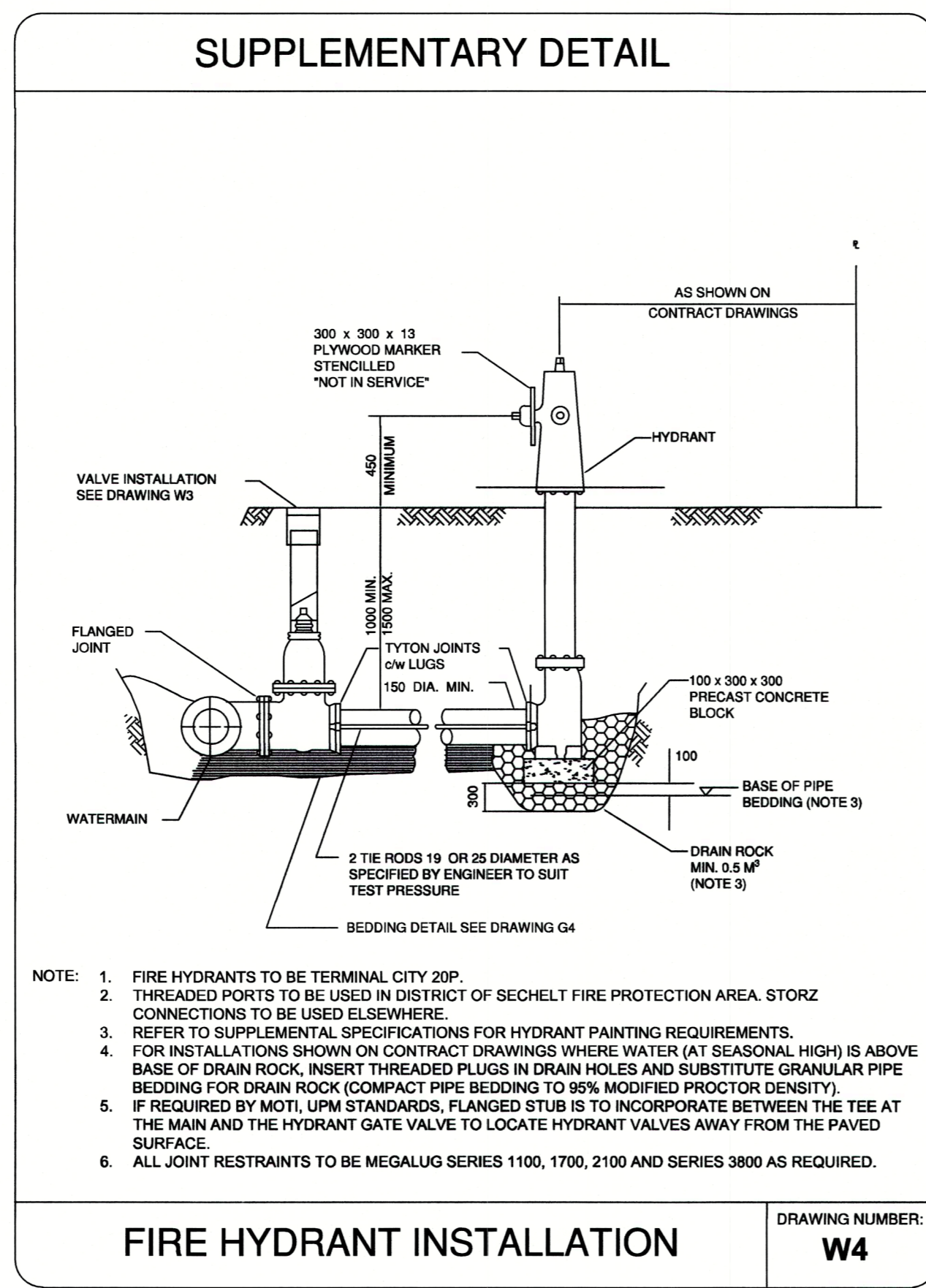
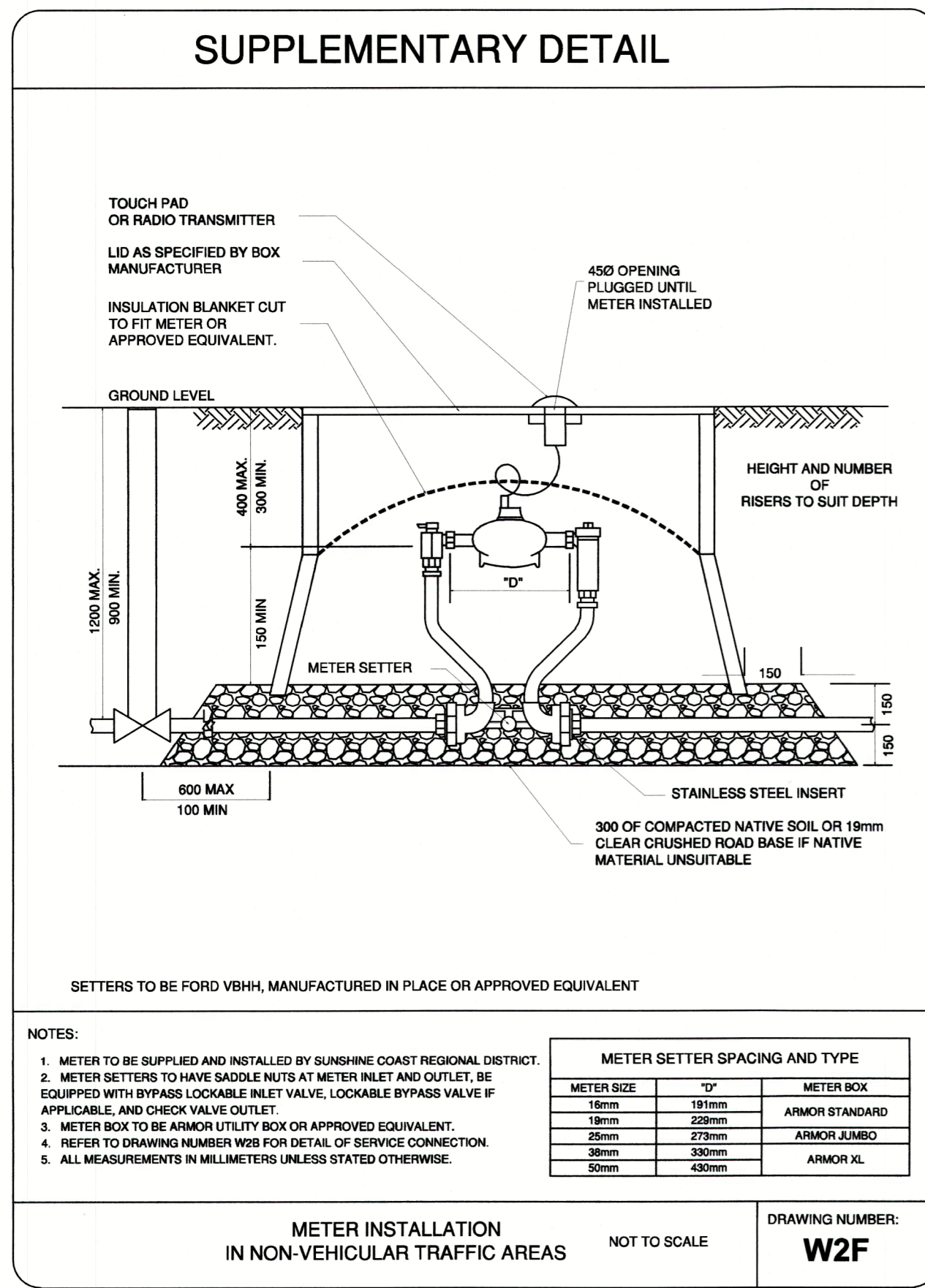
SEAL :



WORK ORDER NO. 116364

DRAWING NO: D-01

SHEET NO : 08 of 09



SCRD STANDARD DETAIL DRAWINGS

MAX. ALLOWABLE SOIL BEARING LOADS (kPa)	CAPS, PLUGS & TEES				90° ELBOWS			
	PIPE SIZE (mm)	PIPE SIZE (in)	THRUST (kN)	MIN. BLOCK BASE AREA (m²)	MIN. BLOCK BASE AREA (sqft)	THRUST (kN)	MIN. BLOCK BASE AREA (m²)	MIN. BLOCK BASE AREA (sqft)
HARDFAN OR SHALE 430.9	100	4	11	0.04	0.43	15	0.05	0.54
	150	6	24	0.08	0.86	34	0.12	1.29
	200	8	43	0.15	1.61	61	0.21	2.26
	300	12	97	0.34	3.66	136	0.48	5.17
HARD CLAY 287.3	100	4	11	0.06	0.65	15	0.08	0.86
	150	6	24	0.13	1.40	34	0.18	1.94
	200	8	43	0.23	2.48	61	0.32	3.44
	300	12	97	0.51	5.49	136	0.71	7.64
SAND 191.5	100	4	11	0.08	0.86	15	0.12	1.29
	150	6	24	0.19	2.05	34	0.27	2.91
	200	8	43	0.34	3.66	61	0.48	5.17
	300	12	97	0.76	8.18	136	1.07	11.52
SOFT CLAY 47.9	100	4	11	0.34	3.66	15	0.47	5.06
	150	6	24	0.76	8.18	34	1.07	11.52
	200	8	43	1.36	14.64	61	1.90	20.45

CONCRETE BLOCKING

DRAWING NUMBER: **W8.1**

SCRD STANDARD DETAIL DRAWINGS

MAX. ALLOWABLE SOIL BEARING LOADS (kPa)	45° ELBOWS				22 1/2° ELBOWS			
	PIPE SIZE (mm)	PIPE SIZE (in)	THRUST (kN)	MIN. BLOCK BASE AREA (m²)	MIN. BLOCK BASE AREA (sqft)	THRUST (kN)	MIN. BLOCK BASE AREA (m²)	MIN. BLOCK BASE AREA (sqft)
HARDFAN OR SHALE 430.9	100	4	8	0.03	0.32	4	0.01	0.11
	150	6	19	0.06	0.65	10	0.03	0.32
	200	8	33	0.11	1.18	17	0.06	0.65
	300	12	74	0.26	2.80	38	0.13	1.40
HARD CLAY 287.3	100	4	8	0.04	0.43	4	0.02	0.22
	150	6	19	0.10	1.08	10	0.05	0.54
	200	8	33	0.17	1.83	17	0.09	0.97
	300	12	74	0.39	4.20	38	0.20	2.15
SAND 191.5	100	4	8	0.06	0.65	4	0.03	0.32
	150	6	19	0.15	1.61	10	0.07	0.75
	200	8	33	0.26	2.80	17	0.13	1.40
	300	12	74	0.58	6.24	38	0.30	3.23
SOFT CLAY 47.9	100	4	8	0.26	2.80	4	0.13	1.40
	150	6	19	0.58	6.24	10	0.30	3.23
	200	8	33	1.03	11.09	17	0.53	5.70

CONCRETE BLOCKING

DRAWING NUMBER: **W8.2**

SCRD STANDARD DETAIL DRAWINGS

MAX. ALLOWABLE SOIL BEARING LOADS (kPa)	11 1/2° ELBOWS			
	PIPE SIZE (mm)	PIPE SIZE (in)	THRUST (kN)	MIN. BLOCK BASE AREA (m²)
HARDFAN OR SHALE 430.9	100	4	2	0.01
	150	6	5	0.02
	200	8	8	0.03
	300	12	19	0.07
HARD CLAY 287.3	100	4	2	0.01
	150	6	5	0.02
	200	8	8	0.04
	300	12	19	0.10
SAND 191.5	100	4	2	0.02
	150	6	5	0.04
	200	8	8	0.07
	300	12	19	0.15
SOFT CLAY 47.9	100	4	2	0.07
	150	6	5	0.15
	200	8	8	0.27

CONCRETE BLOCKING

DRAWING NUMBER: **W8.3**

REVISIONS	
REVISION : 0 (AT INITIAL DESIGN STAGE)	2025-04-30
REVISION : 0 (90%)	2025-05-26
REVISION : 0 (IFT)	2026-01-20

SUNSHINE COAST REGIONAL DISTRICT

INFRASTRUCTURE DEPARTMENT

PERMIT TO PRACTICE No. 1003260

1975 Field Road
Sechelt, BC V0N 3A1

Ph: 604-885-6800 1-800-687-5753 Fax: 604-885-7909

DESIGNED BY:	SM
DRAWN BY:	MM
CHECKED BY:	SM
APPROVED BY:	JW

WATERMAIN REPLACEMENT REED ROAD, HENRY ROAD TO REED ROAD PUMP STATION

DRAWING : **SUPPLEMENTARY DETAILS**

SEAL :

2026-01-27

WORK ORDER NO.	116364
DRAWING NO:	D-02
SHEET NO :	09 of 09