



PERMIT TO CONSTRUCT, USE, AND MAINTAIN WORKS WITHIN THE RIGHT-OF-WAY OF A PROVINCIAL PUBLIC HIGHWAY

PURSUANT TO TRANSPORTATION ACT AND/OR THE INDUSTRIAL ROADS ACT AND/OR THE MOTOR VEHICLE ACT AND/OR AS DEFINED IN THE NISGA'A FINAL AGREEMENT AND THE NISGA'A FINAL AGREEMENT ACT.

BETWEEN:

The Minister of Transportation and Transit
Sechelt Area Office
5710 Teredo
Sechelt, British Columbia V0N 3A3
Canada

("The Minister")

AND:

Sunshine Coast Regional District
1975 Field Road
Sechelt, British Columbia V0N 3A1
Canada

("The Permittee")

WHEREAS:

A. The Minister has the authority to grant permits for the auxiliary use of highway right of way, which authority is pursuant to both the Transportation Act and the Industrial Roads Act, the Motor Vehicle Act, as defined in the Nisga'a Final Agreement and the Nisga'a Final Agreement Act;

B. The Permittee has requested the Minister to issue a permit pursuant to this authority for the following purpose:

The installation, operation, and maintenance of a 300 mm Ductile Iron (DI) and High-Density Polyethylene (HDPE) water main replacement project within Reed Road, Payne Road, and Henry Road, as shown on drawing WO116364.

C. The Minister is prepared to issue a permit on certain terms and conditions;

ACCORDINGLY, the Minister hereby grants to the Permittee a permit for the Use (as hereinafter defined) of highway right of way on the following terms and conditions:

- 1. That the construction and maintenance of the said works is carried out to the satisfaction of the Regional Executive Director.
2. That, before opening up any highway or interfering with any public work, intimation in writing of the intention to do so must be given to the District Official at least seven days before the work is begun.
3. That any person appointed by the Regional Executive Director for the purpose shall have free access to all parts of the works for the purpose of inspecting the same.
4. That the construction of the said works shall be commenced on or before April 16, 2026 and shall be prosecuted with due diligence and to the satisfaction of the Regional Executive Director and shall be completed on or before July 16, 2026.
5. (a) The highway must at all times be kept open to traffic. The roadway must be completely restored for traffic as soon as possible. At all times the permittee must safeguard the traveling public.
(b) That, unless with the consent of the Regional Executive Director no more than forty-five (45) metres of pipe-track or other excavation in any public highway is to be kept open at one time.
(c) All excavation work must be carried out in accordance with the BC Occupational Health and Safety Regulation. Care shall be



taken to protect adjacent property.

(d) That all excavations shall be carefully back-filled with suitable material, which is to be tamped into place, and that the permittee shall restore the surface of the road and shoulders and ditches at their own expense. All surplus material is to be removed from the Provincial Crown lands, or deposited where and as required by the District Official of the Ministry of Transportation and Transit. The permittee is financially responsible for any maintenance works required on said ditch for a period of one year. The Ministry will carry out the necessary remedial work and invoice the permittee monthly.

(e) The pipeline crossing installation is to be placed by drilling and (or) jacking in such a manner as to afford minimum grade settlement. No water jetting will be permitted. That where, in the opinion of the District Official, an excavation or opening for a pipeline crossing installation could be made which would not be detrimental to the highway or its users, permission will be granted for said works. On throughways, freeways, and main highways no open cuts will be allowed.

(f) That all pipelines in excess of a nominal diameter of 5 cm., whether gas, oil, water, pressure sewers, conduits, etc., shall be installed where indicated by the District Official, encased in a steel casing-pipe or conduit-pipe of sufficient strength to withstand all stresses and strains resulting from the location, such casing to extend the full width of the highway right-of-way if deemed necessary to the District Official. The ends of the casing-pipe shall be suitably sealed and, if required, properly vented above the ground with vent-pipes not less than 5 cm. in diameter, and extending not less than 1.2 metres above ground surface. Vent-pipes shall be connected 30 cm. from the ends of the casing-pipe, and the top of each vent shall be fitted with a turn-down elbow, properly screened and equipped with identification markers.

All pipelines of non-rigid material, i.e., plastic or copper, of any diameter, shall be cased, or embedded in sand.

The inside diameter of the casing-pipe shall be at least 25 percent larger than the outside diameter of the pipeline. The casing-pipe shall be installed with an even bearing throughout its length, and in such a manner so as to prevent leakage, except through the vents.

The top of the casing-pipe, or the pipeline where casing is not required, shall be located as directed by the District Official, and shall in no case be less than 1.2 metres below the surface of the highway and not less than 1.0 metres below the highway ditches. Pipelines must not obstruct drainage structures or ditches or interfere with traffic on the highway or with highway maintenance.

6. That where the work for which permission is hereby granted comes in contact with any bridge, culvert, ditch, or other existing work, such existing work must be properly maintained and supported in such manner as not to interfere with its proper function during the construction of the new work, and on the completion of the new work the bridge, culvert, ditch, or other existing work interfered with shall be completely restored to its original good condition.
7. That when necessary all excavations, materials, or other obstructions are to be efficiently fenced, lit, and watched, and at all times every possible precaution is to be taken to ensure the safety of the public.
8. The Permittee shall indemnify and save harmless the Ministry, its agents and employees, from and against all claims, liabilities, demands, losses, damages, costs and expenses, fines, penalties, assessments and levies made against or incurred, suffered or sustained by the Ministry, its agents and employees, or any of them at any time or times, whether before or after the expiration or termination of this permit, where the same or any of them are based upon or arise out of or from anything done or omitted to be done by the Permittee, its employees, agents or Subcontractors, in connection with the permit.
9. That the permission herein granted to use and maintain the works is only granted for such times as the land or public work in, upon, or over which the said works are constructed is under the jurisdiction of the Minister of Transportation and Transit. This permission is not to be construed as being granted for all time, and shall not be deemed to vest in the permittee any right, title or interest whatsoever in or to the lands upon which the works are constructed. Should the lands affected at any time be included within that of an incorporated municipality or city, this permission shall become void, unless the works are on a highway duly classified as an arterial highway pursuant to Section 45 of the Transportation Act.
10. That after receiving notice in writing of the intention on the part of the Provincial Government to construct, extend, alter, or improve any public work, the person or persons responsible for the maintenance of the works for which permission is hereby granted shall within six weeks move or alter such work at their own expense to such new positions or in such manner as may be necessitated by the construction, extension, alteration, or improvement proposed to be carried out by the Provincial Government.
11. That while reasonable care will be taken on the part of the Provincial Government to do as little damage as possible to any private work in the carrying-out of the construction, extension, alterations, improvement, repair, or maintenance of any public work adjacent thereto, the Provincial Government can accept no responsibility for any kind of such damage.
12. That the permission hereby granted to construct, use, and maintain work is granted without prejudice to the provisions of the Transportation Act, or other Acts governing Crown lands and public works or their use by the public.
13. That this permission shall be in force only during such time as the said works are operated and maintained by the applicants, to the entire satisfaction of the Regional Executive Director.
14. That the Ministry will not be responsible for grade changes on accesses caused by reconstruction of any Provincial highway.



15. This permit is valid only for the specific works stated herein. Any alterations or additions must be covered by a separate permit.
16. This permit may be canceled, at the discretion of the Minister, without recourse, should the permittee fail to comply with all the terms of the permit. Thirty days' notice will be given before cancellation.
17. When the requirements of the Ministry necessitate use of the said lands for Provincial purposes, at the discretion of the Minister, this permit may be canceled.
18. That these works shall be identified with this permit number in a manner satisfactory to the District Official of the Ministry of Transportation and Transit.
19. As a condition of this permit, the permittee unconditionally agrees with the Ministry of Transportation and Transit that the permittee is the prime contractor or will appoint a qualified prime contractor, as described in Section 24 of the Workers Compensation Act, for the purposes of the work described by this permit, at the work location described in this permit, and that the permittee or designated prime contractor will observe and perform all of the duties and obligations which fall to be discharged by the prime contractor pursuant to the Workers Compensation Act and the Occupational Health and Safety Regulation.
20. The permittee is advised and acknowledges that the following hazards may be present at the work location and need to be considered in co-ordinating site safety: overhead hazards, particularly electrical or telecommunications lines; buried utilities, particularly electrical, telecommunication, and gas lines; traffic, danger trees, falling rocks, and sharp or infectious litter.
21. Any works within the Ministry right-of-way that fall within the scope of "practice of professional engineering" or "practice of professional geoscience" under the Professional Governance Act and the Engineers and Geoscientists Regulation will be performed by a Professional, and shall comply with this Ministry's "Professional Assurance Guidelines". The Guidelines can be viewed on the Ministry's website at <https://www2.gov.bc.ca/assets/gov/driving-and-transportation/transportation-infrastructure/engineering-standards-and-guidelines/technical-circulars/2023/t01-23.pdf>
22. The permittee is responsible for preventing the introduction and spread of noxious weeds on the highway right-of-way as defined by the British Columbia Weed Control Act and Weed Control Regulation.
23. GENERAL
24. Provincial records indicate that the works associated with this application may encounter

archaeological sites protected under the Heritage Conservation Act.

In accordance with Sections 000.03 Non-Ministry Developments on Ministry Land or That are Intended to Become Ministry Assets and 165.20 Archaeological and Paleontological Discoveries of the Design Build Standard Specification for Highway Construction - In the event that any item of archaeological, heritage, historical, cultural or scientific interest is found on the project site, the following Chance Find Procedure shall apply:

Such item(s) shall remain the property of the Province and the Permittee shall, on making or being advised of such a find, immediately cease operations in the affected area, minimize activities which create ground disturbance in and adjacent to the affected area, and notify the District Official and the Archaeology Branch of the British Columbia Ministry of Forests, Lands, Natural Resource Operations and Rural Development [Ministry of Forests]. Work shall not resume within 30 m of the discovery site until an appropriate directive has been received from that agency.

To protect archaeological and paleontological sites that are situated within or adjacent to a project site, the Permittee may be required to use a variety of mitigative measures, including but not limited to drainage or erosion control, slope stabilization measures, or erecting fences or other suitable barriers to protect archaeological or paleontological sites that are situated within or adjacent to a project site. These measures, with any negotiated extensions of time for completion of the Works they require, will be determined and adopted at the discretion of the District Official. The costs associated with such mitigative measures will be borne by the Permittee.

The Permittee shall ensure that all workers and Subcontractors are fully aware of these requirements and processes.

25. A copy of the permit is to be kept by the field supervisor(s), in order that they are aware of all permit conditions.
26. At the applicant's expense, the Ministry reserves the right to appoint an Inspector, as deemed advisable by the Operations Manager, and said Inspector's costs shall be chargeable to the applicant.
27. If, in the opinion of the District Operations Manager, measures should be taken to ensure compliance with the permit, the District Operations Manager may immediately arrange for such measures and charge all costs whether labour and/or materials, to the applicant.
28. Removal - The Minister may order the removal or alteration of utility installations, if necessary, for the protection of the highway or highway users.

If the utility owner does not respond to an order to remove or alter a utility installation, the Minister may carry out that work and recover costs from the utility.



29. Protection of Roads - The Permittee shall ensure all equipment working on or hauling material on to and from the Site does not damage or deposit material onto any part of an existing roadway. Materials spilled onto the public roadways or driveways opened to public traffic shall be cleaned up immediately. The Permittee has the full responsibility to repair any damage to existing highways, local roads and driveways caused by its construction equipment and/or operations.
30. Care must be taken where heavy rubber-tired units are turning to the travelled portion of the pavement not to cause scarring to the pavement. No track equipment permitted on pavement.
31. Permittee is responsible for ensuring that all works are contained to the highway right of way. Any works located within private property must have the owner's permission.
32. It shall be the responsibility of the applicant to ascertain the location of all existing works on Crown land and to take all necessary precautions for their original condition of usefulness on completion of the project, having particularly in mind utilities, including underground and property entrances.
33. Protection of Survey Monuments

The Permittee shall be responsible for the preservation during construction of all geodetic benchmarks, survey monuments and property markers on the right-of-way. The Permittee shall use, at no expense to the Ministry, a British Columbia Land Surveyor to replace any survey monuments destroyed or damaged as a result of the Permittee's negligence. At locations where construction work will cover or destroy such markers, the Permittee shall not move or remove them until written direction is received from the Ministry Representative.
34. Service connections may be used at the time of construction, but these must be referred to the Operations Manager before the work commences.
35. SAFETY
36. All open cuts in the travelled portion, driveways, or sidewalks of the road are to be steel-plated and warning signs erected.
37. No excavated materials will be stockpiled on the travelled portion of the pavement at any time.
38. The work shall not commence during a period of poor visibility, i.e., fog/heavy rain/snow.
39. INVASIVE PLANT MANAGEMENT
40. The permittee is responsible for preventing the introduction and spread of noxious weeds on the highway right-of-way as defined by the British Columbia Weed Control Act and Weed Control Regulation.
41. Revegetation Seeding - Sites are to be reseeded to standards set out in Section 757, Standard Specifications for Highway Construction.
42. BONDING & INSURANCE
43. The Permittee shall obtain and maintain Commercial General Liability insurance including non-owned automobile and contractual liability insurance in an amount of not less than \$2,000,000.00. The insurance shall comply with all terms and conditions of the Ministry Certificate of Insurance (H0111) and evidence of such insurance shall be given by way of a duly completed H0111. All insurance coverage shall be issued with insurers acceptable to the Ministry, and issued by companies licensed to transact business in the Province of British Columbia and Canada.
44. TRAFFIC MANAGEMENT
45. Traffic Control Plan - The Permittee shall take all reasonable precautions to attempt to ensure the safety of the public in connection with the Use. In particular, but not so as to limit this obligation, the Permittee shall, if so required by the Designated Ministry Official on reasonable grounds, prepare and implement a traffic control plan. The contents of the plan and the manner in which it is implemented must meet the reasonable satisfaction of the Designated Ministry Official.
46. Accommodation of Traffic - The Permittee shall, at his cost, supply, erect, and maintain standard traffic control devices in accordance with the Ministry of Transportation and Infrastructure Traffic Control Manual for Works on Roadways and WCB Regulation, Part 18.
47. Two-way traffic is to be maintained at all times.
48. Two-way traffic must be fully restored by 1200 pm (Noon) on the last weekday prior to a statutory long weekend.
49. DESIGN & PRE-CONSTRUCTION
50. Highest Standards Apply - Where the Ministry and a regulator both set a standard or requirement in a particular area, the highest or most stringent of the two will apply to any installation on highway right-of- way.
51. The applicant shall be responsible for the repair of any damages to roads, culverts, ditches, drainage, or any other public works attributable to this work for a period of one year from completion of this project.



52. The Permittee is to inform Jeremy Waksel, MOTI Area Manager, at Jeremy.Waksel@gov.bc.ca of the projected commencement of the permitted Works by submitting a Work Notification/Lane Closure Form (H1080) at least ten (10) business days in advance.
53. The Permittee is to notify Capilano Highway Services at 1-800-665-3135 (24-hour number) at least 48 hours in advance of commencing work.
54. EXCAVATION
55. Pipe bedding must conform to industry standards.
- Trenches must be backfilled with granular material that meets Ministry standards as set out in Section 202.02 (Table 202-C), 2009 Standard Specifications for Highway Construction and all subsequent interim revisions and updates, in accordance with the following minimum requirements:
- (a) Sub-base material must meet or exceed specified requirements for Select Granular Sub Base aggregates.
- (b) Crushed Base Course depth is to match existing depth, but must not be less than 300 mm compacted thickness and consist of "25 mm minus" WGB (or IGB) crushed aggregate.
- Backfill must be placed in layers not exceeding 150 mm compacted thickness and shall be compacted with approved tamping equipment to a minimum of 95 percent Proctor density to within 300 mm of the surface and 100 percent for the final 300 mm.
56. No excavated materials will be stockpiled on the travelled portion of the pavement at any time.
57. Asbestos Cement (AC) pipe that is abandoned in place must be drained and sealed with concrete.
58. **If decommissioned or abandoned Asbestos Cement (AC) pipe is exposed during excavation, the Permittee shall make a reasonable effort to remove the abandoned pipe and dispose of it in an appropriate manner.**
59. **The Permittee shall be responsible for the safe removal and disposal of Asbestos Cement (AC) pipe if encountered during any future excavations permitted by the Ministry.**
60. **Asbestos Cement (AC) pipe that is abandoned in place must be drained and sealed with concrete.**
61. PAVEMENT & SURFACE RESTORATION
62. Temporary Patching - As soon as any portion of the highway can be re-opened to traffic, a temporary asphalt patch must be applied.
63. Permanent Patching - Pavement edges must be cut, made true and straight, cleaned, and primed before installing a final patch.
- Asphalt concrete must be restored to the same thickness as the existing surface or to a minimum of 75 mm thickness, whichever is greater. Asphaltic concrete must meet Ministry standards as set out in Section 502, Standard Specifications for Highway Construction.
- Asphalt concrete is to be laid in two or more lifts or layers. Each lift is to be thoroughly compacted before successive lifts are applied.
- The Permittee will ensure that the permanent pavement patch is to Ministry standards for **two years** from the date that the patch is installed.
64. All pavement restoration must be to the full lane width including pre-existing shoulders. Where both lanes are affected, pavement restoration must be to the full width of the road, shoulder to shoulder.
65. Final permanent pavement shall be completed after the following Spring/Summer to allow for any settlement to occur.
66. A pre-con meeting shall be arranged with MOTT to establish pavement extents. Pavement restoration must be done to the Ministry's satisfaction.
67. Eradication of existing lane markings, placement of temporary markings and final line painting shall be the responsibility of the permittee. All materials and procedures must comply with Ministry specifications and our Manual of Standard Traffic Signs & Pavement Markings. The permittee shall arrange a final inspection of the installation with Ministry personnel upon completion. Any deficiencies identified during the inspection must be repaired by the permittee within two weeks (weather permitting).
68. DRIVEWAYS
69. Excavations across entrances, whether private or commercial, must be backfilled and thoroughly compacted by the end of the current working day. The surface must be restored, whether paved or gravel, to its original condition within 48 hours.
- Affected property owners must be notified at least 48 hours in advance before excavating a driveway.
70. END OF PROJECT
71. All unsuitable material and inorganic debris shall be removed from the project area. All surplus or unsuitable organic waste and



debris shall be removed from the site.

- 72. The area is to be left in a neat and tidy condition and landscaping is to be carried out as necessary.
- 73. Within two months of completion of the project, the Operations Manager shall be supplied with two prints showing as-constructed plans of all work including all connections installed. Please identify the Ministry file number on your submission.

The rights granted to the Permittee in this permit are to be exercised only for the purpose as defined in Recital B on page 1.

Dated at Sechelt, British Columbia, this 16 day of April, 2026

Brad Newton
Development Officer
On Behalf of the Minister



Open Cut Requirements

1. Traffic Control

Normal traffic patterns on the highway are to be maintained throughout the construction area at all times, unless a lane closure has been granted by the District Manager, Transportation or their designate. Lane closures may be permitted, if deemed necessary, over short sections only during periods of lower traffic volumes. A Work Notification/Lane Closure Request and Approval Form (H1080) must be submitted to the local Area Manager for review a minimum of ten (10) working days prior to the works occurring. Normal traffic patterns must be reinstated for the morning and afternoon peak periods or as specified by the District Manager, Transportation or their designate.

Traffic signs, devices and signing methods must conform to the most current edition of the Ministry of Transportation Traffic Management Manual for Work on Roadways.

Properly equipped, trained and experienced traffic control personnel are required to control traffic during periods of alternating traffic or at any time where equipment, work crews, or materials interfere with the traffic flow.

When a gravel shoulder is used as a traffic lane, the shoulder must be maintained in a smooth, dust free condition at all times. Use of the gravel shoulder as a traffic lane shall be restricted to the work day only and shall not continue over weekends or at night without specific approval from the District Manager, Transportation.

2. Trenching

A minimum of seven (7) days prior to the start of construction, the Contractor shall lay out all pavement cut lines and areas of pavement removal for review and acceptance by the District Manager, Transportation or their designate.

The Contractor shall perform full depth pavement cutting using a saw or other equipment satisfactory to the District Manager, Transportation or their designate that will leave a straight edge with a neat vertical face and will not distort the remaining pavement.

The Contractor shall be responsible for maintaining the cut face in good condition or provide an additional saw cut if the vertical face becomes damaged, at the discretion of the District Manager, Transportation or their designate.

WorkSafe BC approved shoring must be used throughout the entire length of the trench. Extreme care must be taken to avoid sloughing of the trench sides to minimize damage to the road sub-grade beyond the limits of the excavation. Should sloughing of the trench sides occur and undermine the asphalt, the pavement must be removed from the damaged area and the voids properly filled and compacted.

Except where the utility is in a boulevard area outside of clear zone requirements, excavated materials must be removed from the site immediately. Stockpiling of native material adjacent to the trench is not permitted. An open trench at the end of the work day is not permitted.

3. Backfilling

The following backfill requirements apply to any trench, or portion thereof, within 4.0 meters of the edge of pavement.

The trench shall be backfilled with granular material in accordance with Section 202 of the current edition of the Ministry of Transportation Standard Specifications for Highway Construction and constructed to the following minimum specifications:

- a) Sub-base material shall consist of select granular sub-base.
- b) Base gravel shall be a minimum compacted thickness of 300mm and consist of 75mm minus crushed gravel or
- c) Surface gravel shall be a minimum compacted thickness of 150mm and consist of 25mm minus crushed gravel.

Backfill shall be placed in 150mm thick layers and compacted with approved mechanical tamping equipment to a minimum 100% of the laboratory density obtained by the current ASTM test method D698 and documentation shall be provided showing compaction results. Shoring must be lifted as the backfill is placed.

Backfill within boulevard areas more than 4.0 meters from the edge of pavement can be with native material unless otherwise specified. The moisture content shall be adjusted to the optimum for compaction. All disturbed areas of the boulevard are to be restored with topsoil (minimum depth of 150mm) and hydro-seed or sod, at the discretion of the District Manager, Transportation or their designate.

4. Asphalt Surface Restoration

Temporary Patch

As soon as any portion of the highway occupied by the utility can be open to traffic, a temporary hot mix asphalt surface must be applied. The patch shall be free from all deformations, raked and tight joints and placed using proper paving techniques to satisfaction of the District Manager, Transportation or their designate.

The temporary patch will be left in a condition that will not impede the free flow of traffic until the permanent fix is completed.

Permanent Patch

Asphalt concrete pavement shall be restored to a minimum depth of 100mm and there should be no lifts placed more than 50mm. The asphalt concrete is to be Class 1 medium mix or fine mix, whichever is specified by the District Manager, Transportation, and must be in accordance with the current edition of the Ministry of Transportation Standard Specifications for Highway Construction, Section 502 and 952.

All edges of the excavation area shall be made true and straight using a concrete saw, and a bituminous cementing material shall be applied to the sawed edge.

The asphalt concrete will be laid in lifts of a maximum depth of 60mm per lift. Each lift is to be thoroughly compacted before successive lifts are applied. Where sufficient width and length exists, the paving shall be done by machine.

After a minimum of three (3) months, or when the temporary patch has settled, the trench plus an additional three (3) meters on either side is to be scarified to a 50mm depth and repaved to create a smooth seam and surface. The permittee will be held responsible for the repair of any failure and/or settlement of the pavement within the area of excavation for a year from the final patch.

Asphalt cuts will not be accepted within the wheel paths. Any asphalt cut which has encroached in to a travelled lane must have the full lane restored up to the paint lines.

5. Culvert Headwall Restoration

Culvert headwalls damaged and/or removed during construction shall be re-instated using a pre-cast concrete headwall to industry standards or as specified on the design drawings.

6. Additional Conditions

Excavations across driveways, private or commercial, are to be backfilled and thoroughly compacted within two (2) hours and have the surface restored to its original condition within 48 hours. The property owner must be notified at least 24 hours prior to the excavation of an existing driveway.

Machines with steel tracks or flat steel pads are not permitted on any portion of the paved surface of the highway at any time. Any damage created by the Contractor's equipment shall be repaired to the satisfaction of the District Manager, Transportation or their designate.

Only rubber-tired equipment may be used on the pavement or on shoulders of paved highways.

The Ministry reserves the right to have a full time inspector on site for the duration of the work, the cost of which will be charged to the permittee.

The permittee shall be responsible for the repair of any damage to access roads, culverts, ditches, or any other public works that are attributable to this work for a period of five (5) years from the completion date.

The permittee is responsible for maintaining all affected drainage courses during this work and for restoring them to their original condition upon completion.



REED ROAD WATERLINE REPLACEMENT 2025

SUNSHINE COAST REGIONAL DISTRICT, INFRASTRUCTURE DIVISION
 WO116364 - ISSUED FOR TENDER JANUARY - 2026

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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

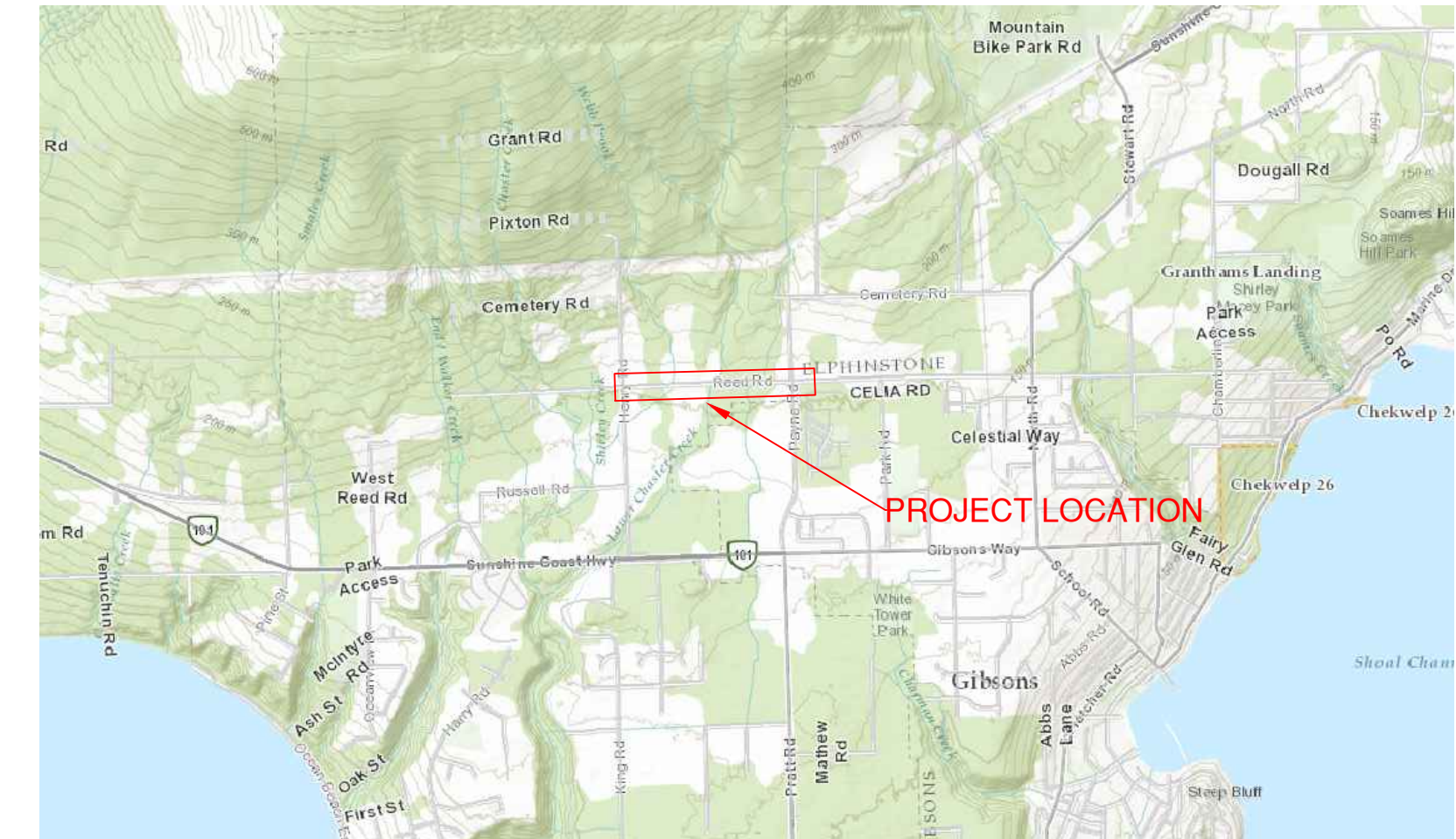
BC Hydro
 8475 128th Street,
 Surrey BC, V3W 0G1
 800 667 1517

TELECOMMUNICATIONS

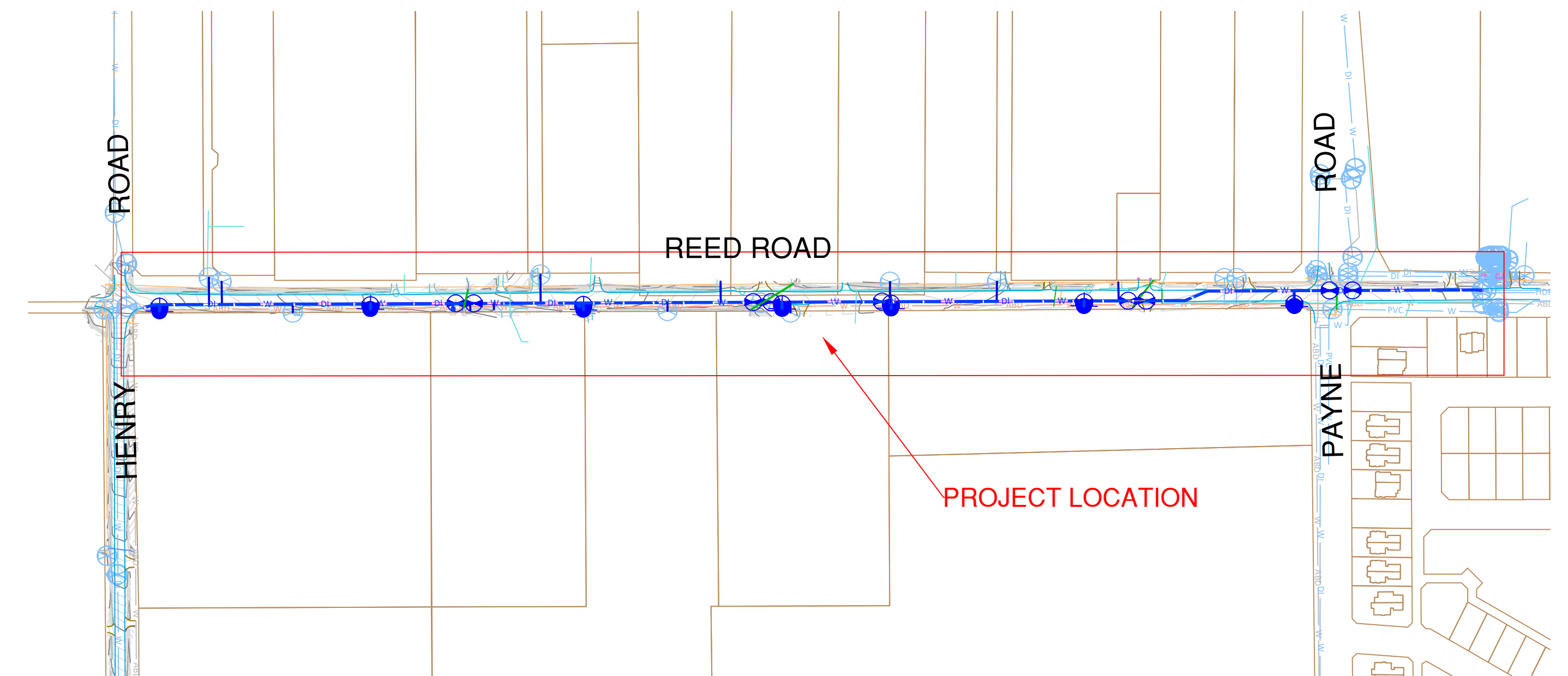
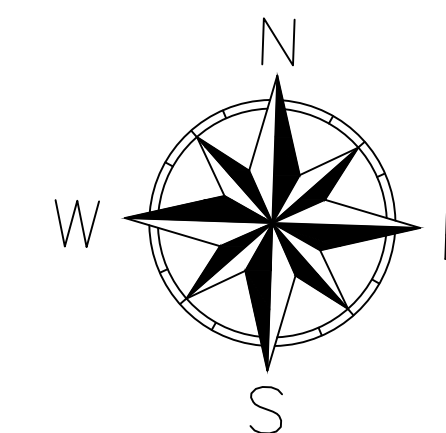
TELUS #1700-13408 108th Ave.
 Surrey BC, V3T 5V6
 604 885 6804

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	DI - W	DI - W
WATER PIPE HIGH-DENSITY POLYETHYLENE	HDPE - W	HDPE - W
WATER SERVICE	SRVC - W	SRVC - W
WATER METER		
WATER VALVE		
HYDRANT		
BLOW-OFF		
SANITARY SEWER	S	S
SANITARY SEWER SERVICE	SPM	SPM
FORCEMAIN		
STORM SEWER	D	D
DRAINAGE FLOW		
CULVERT		
LEGAL LOT LINES		
FENCE LINE		
ROAD EDGE		
ROAD CENTERLINE		
ASPHALT RESTORATION		
ELECTRICAL UNDERGROUND	UE	UE
ELECTRICAL OVERHEAD	OH	OH
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)	2026-01-06



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

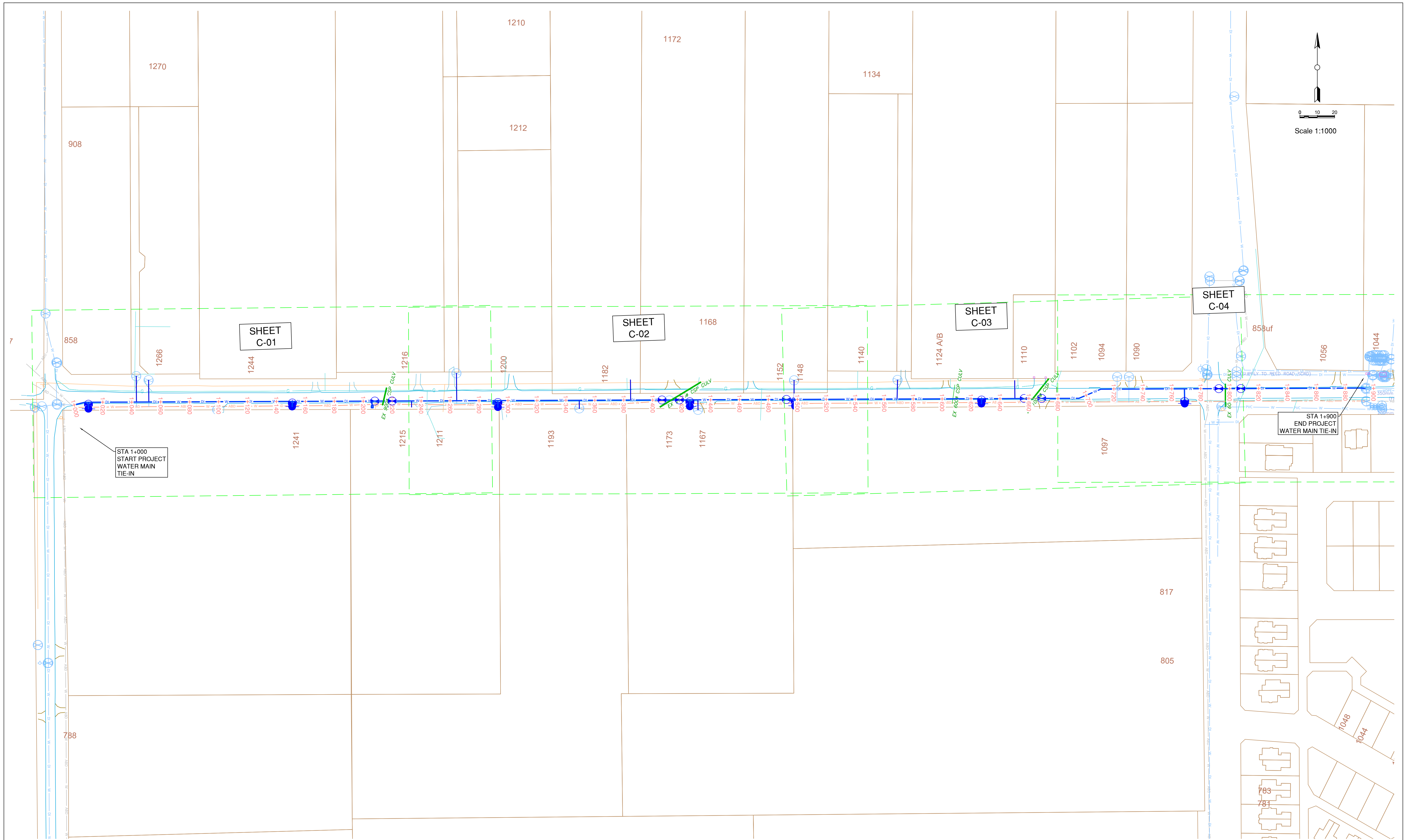
DESIGNED BY:	SM
DRAWN BY:	MM
CHECKED BY:	SM
APPROVED BY:	JW

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)	2026-01-06

**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

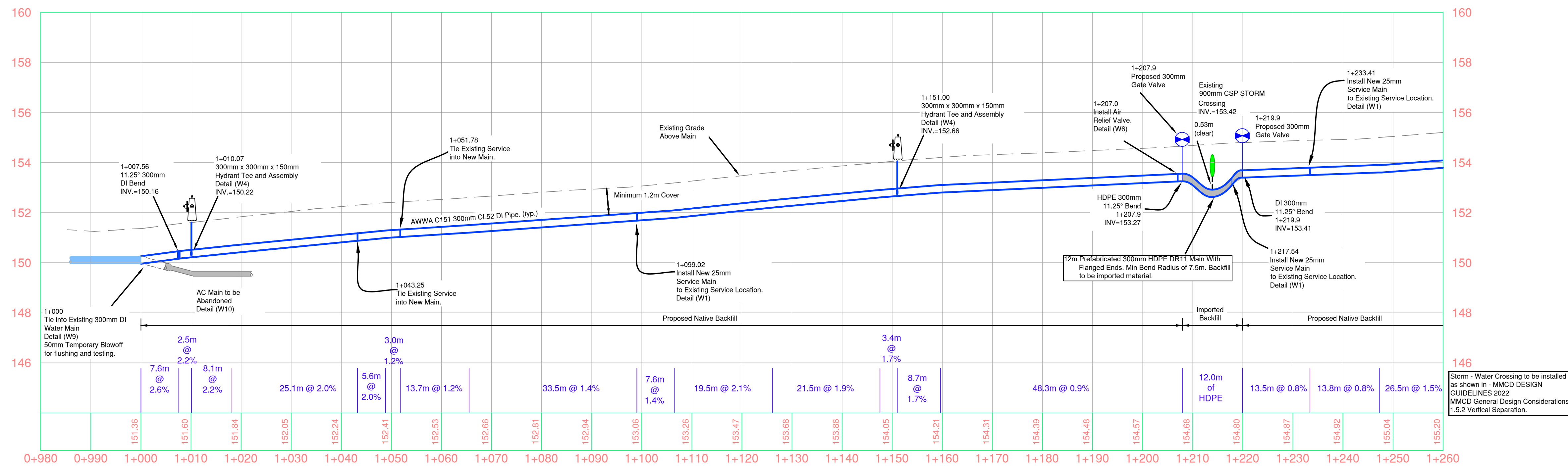
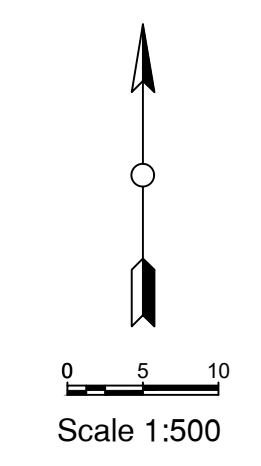
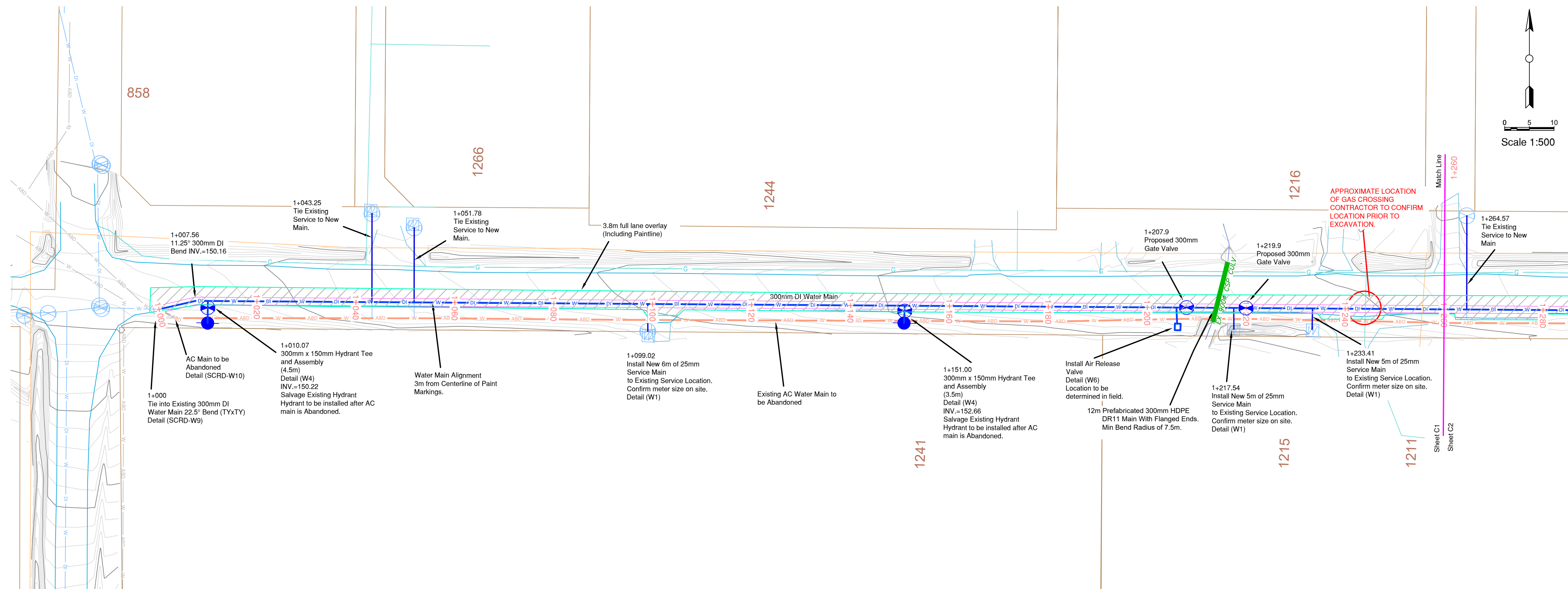
**WATERMAIN
REPLACEMENT
REED ROAD,
HENRY ROAD TO
REED ROAD
PUMP STATION**

DRAWING :

KEY PLAN

SEAL :

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



Storm - Water Crossing to be installed as shown in - MMCD DESIGN GUIDELINES 2022 MMCD General Design Considerations 1.5.2 Vertical Separation.

STA: 1+000 TO 1+260, 1/7/2026 9:36:03 AM

REVISIONS	
REVISION : 0 (AT INITIAL DESIGN STAGE)	2025-04-30
REVISION : 0 (90%)	2025-05-26
REVISION : 0 (IFT)	2026-01-06



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

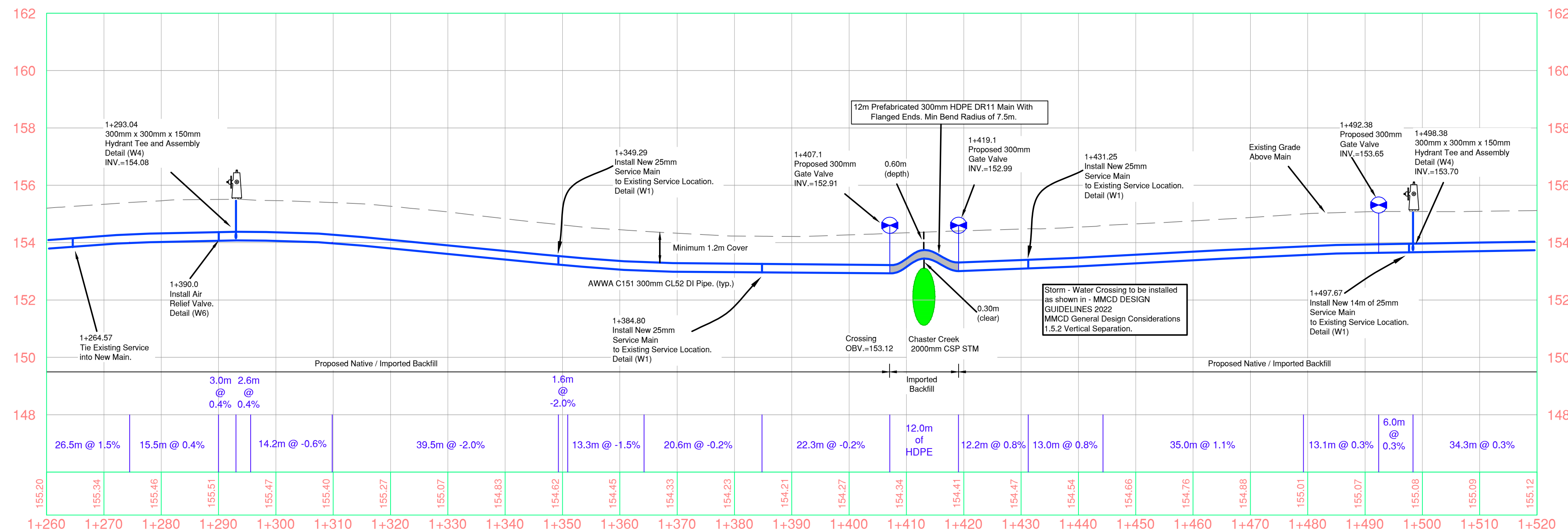
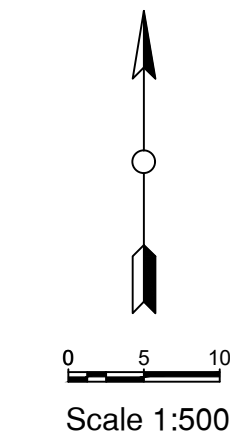
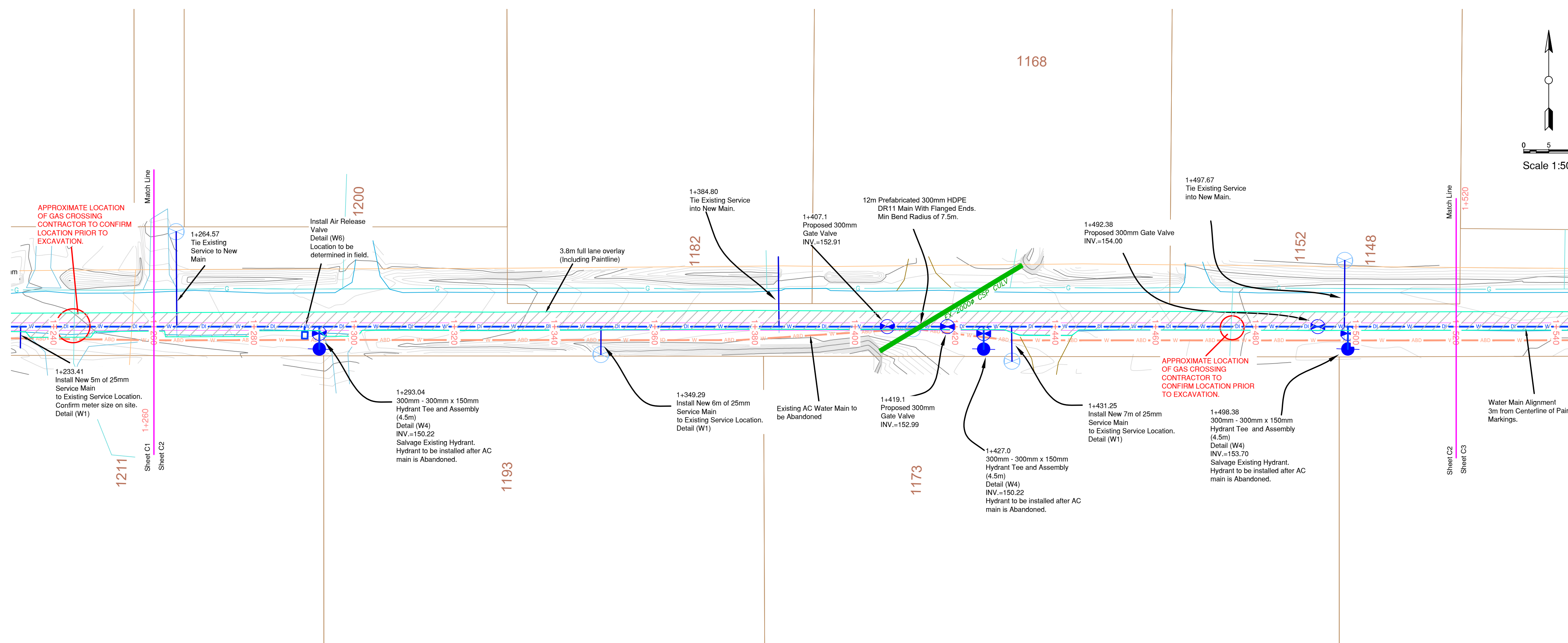
DESIGNED BY:	SM
DRAWN BY:	MM
CHECKED BY:	SM
APPROVED BY:	JW

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

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

SEAL :

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



STA 1+260 TO 1+520, 1/7/2026 8:36:26 AM

REVISIONS	
REVISION : 0 (AT INITIAL DESIGN STAGE)	2025-04-30
REVISION : 0 (90%)	2025-05-26
REVISION : 0 (IFT)	2026-01-06



**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

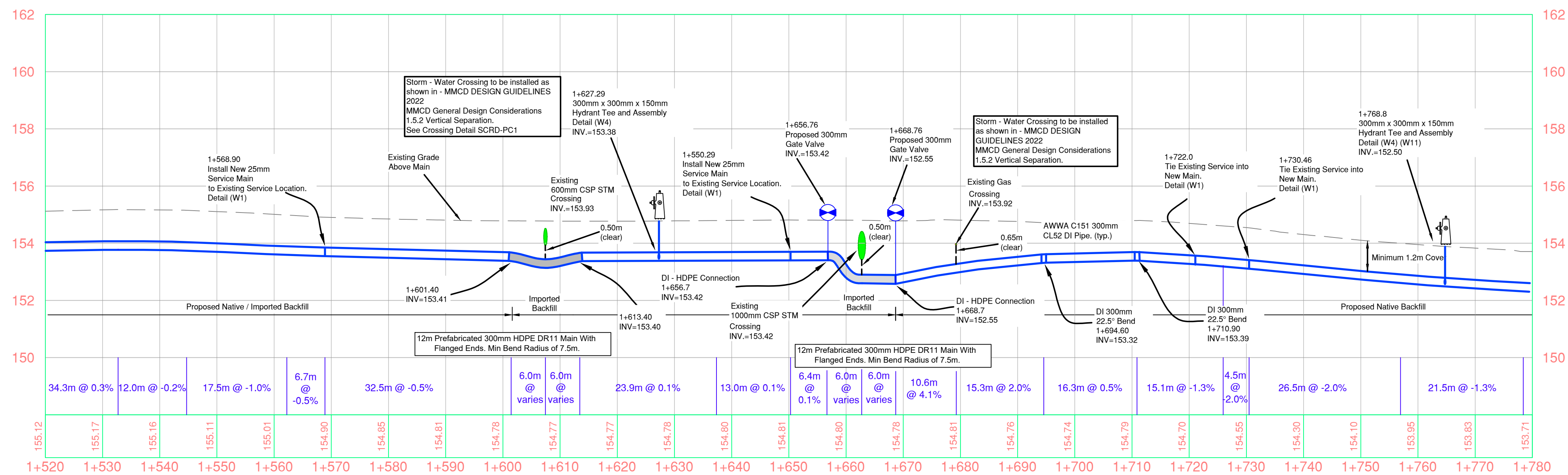
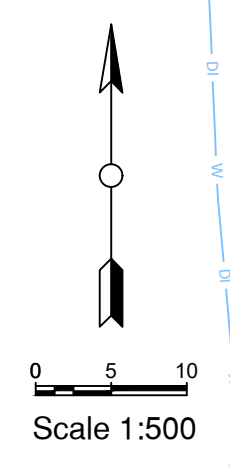
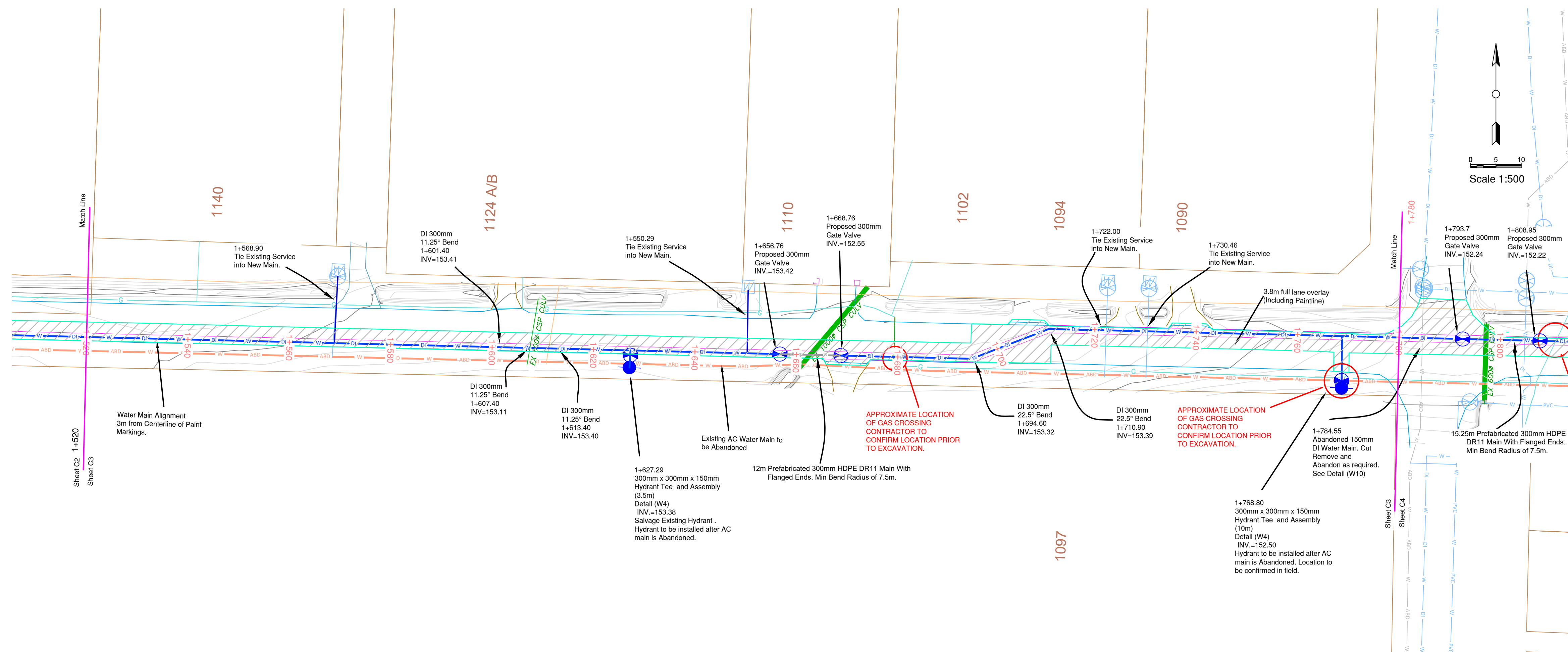
DESIGNED BY:	SM
DRAWN BY:	MM
CHECKED BY:	SM
APPROVED BY:	JW

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

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

SEAL :

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)	2026-01-06



**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

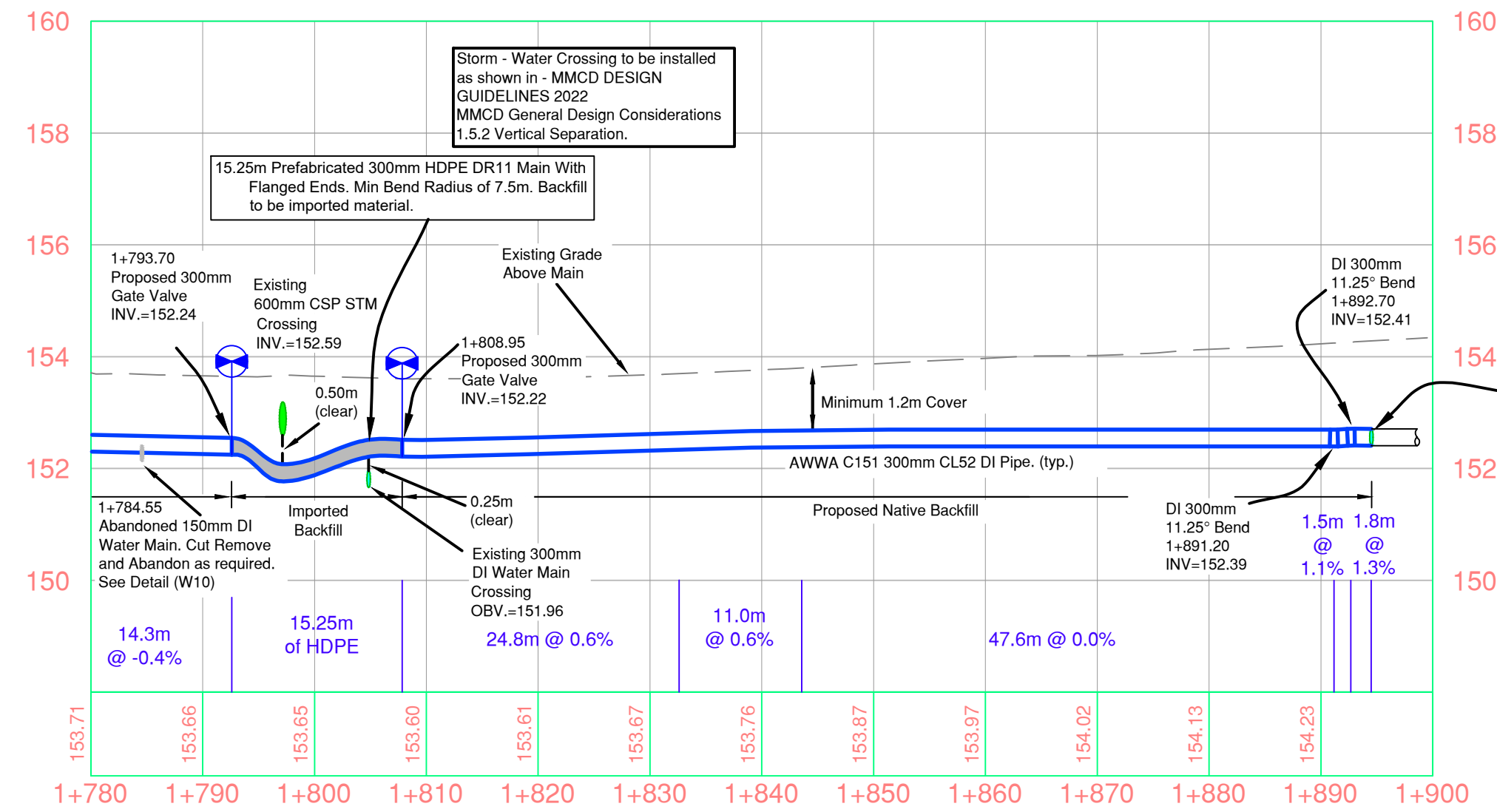
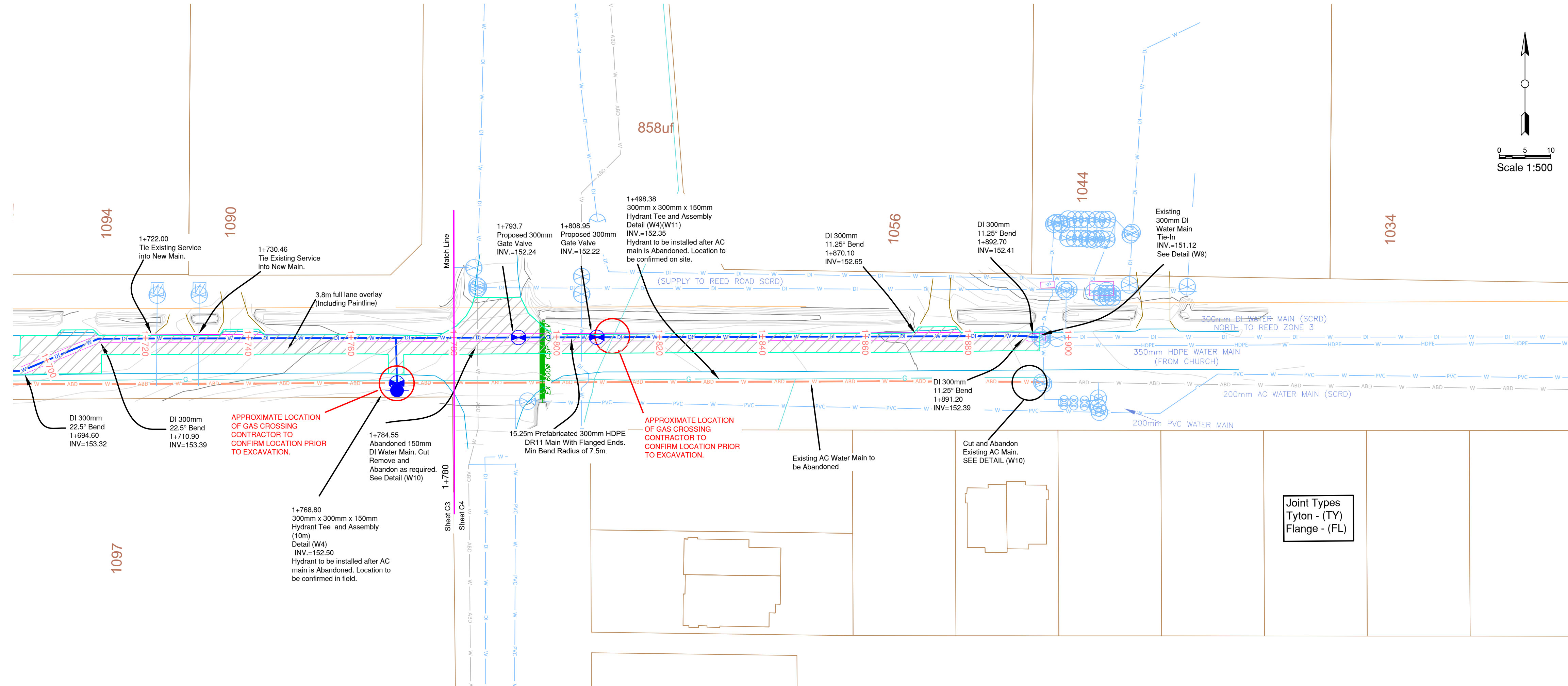
DESIGNED BY:	SM
DRAWN BY:	MM
CHECKED BY:	SM
APPROVED BY:	JW

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

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

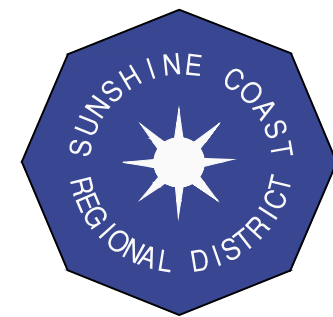
SEAL :

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)	2026-01-06



SUNSHINE COAST REGIONAL DISTRICT

INFRASTRUCTURE DEPARTMENT
PERMIT TO PRACTICE No. 1003260

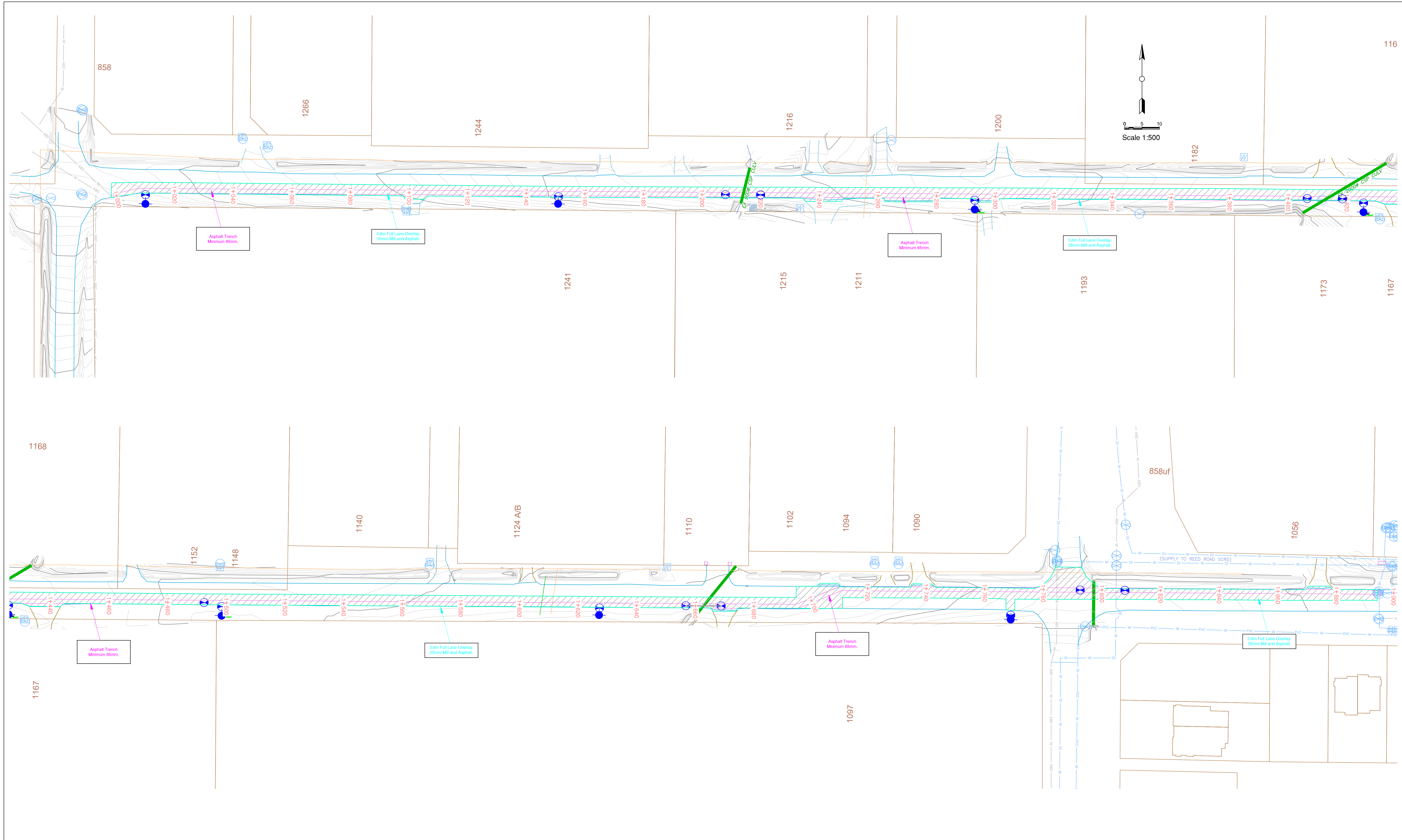
1975 Field Road
Sechelt, BC V0N 3A1
Ph: 604-885-6800 1-800-687-5753 Fax: 604-885-7909

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)	2026-01-06



**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 :

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

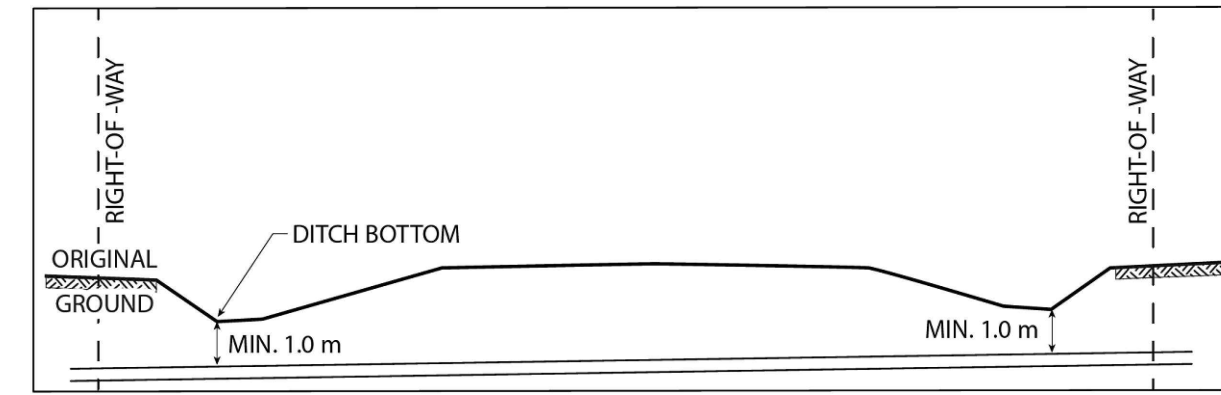
SUPPLEMENTARY DETAIL

TYPICAL COVER DEPTH AND VERTICAL ALIGNMENT REQUIREMENT

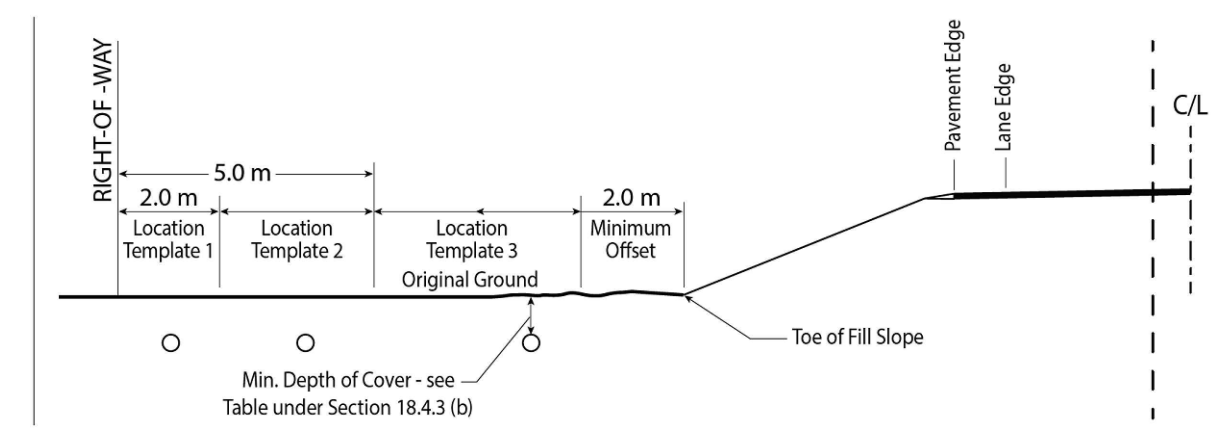
UPM 2019, SECTION 18.0, TABLE 18-1: DEPTH OF COVER FOR WATER AND SEWER LINES

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

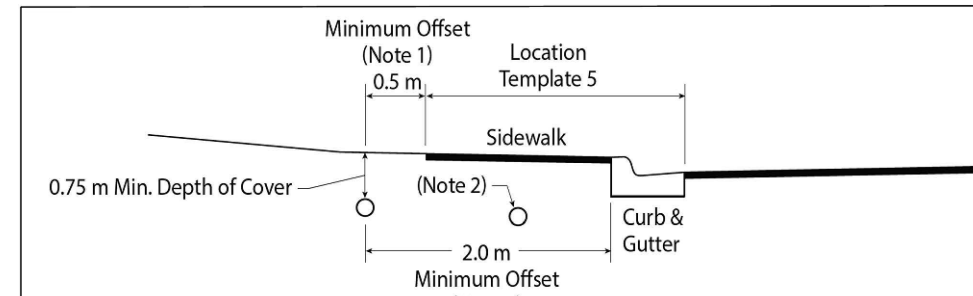
MOTT TYPICAL REQUIREMENTS

DRAWING NUMBER: **MOTT2**

SUPPLEMENTARY DETAIL

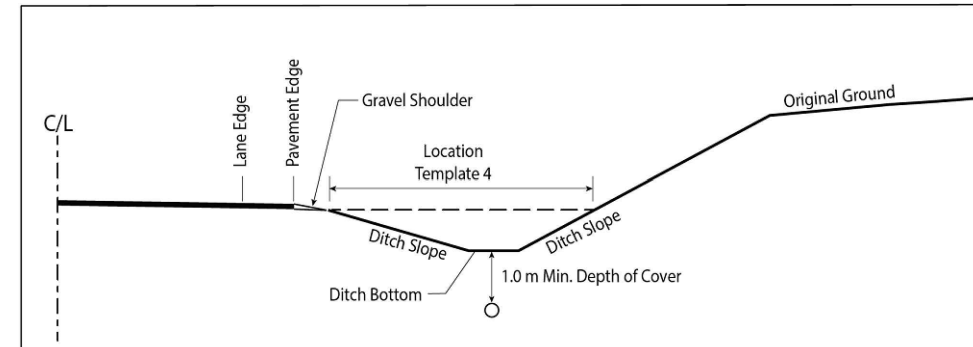
TYPICAL VERTICAL ALIGNMENT REQUIREMENT

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

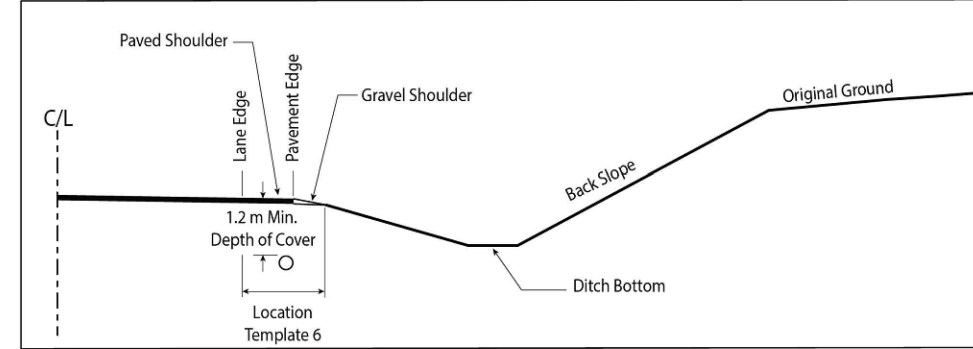


Notes:
1. Preferred location: minimum offset is generally 2 metres from the outside edge of the curb or 0.5 metres beyond the back of sidewalk, whichever is greater.
2. An exception may be granted for installation below sidewalks or curb & gutter.

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



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

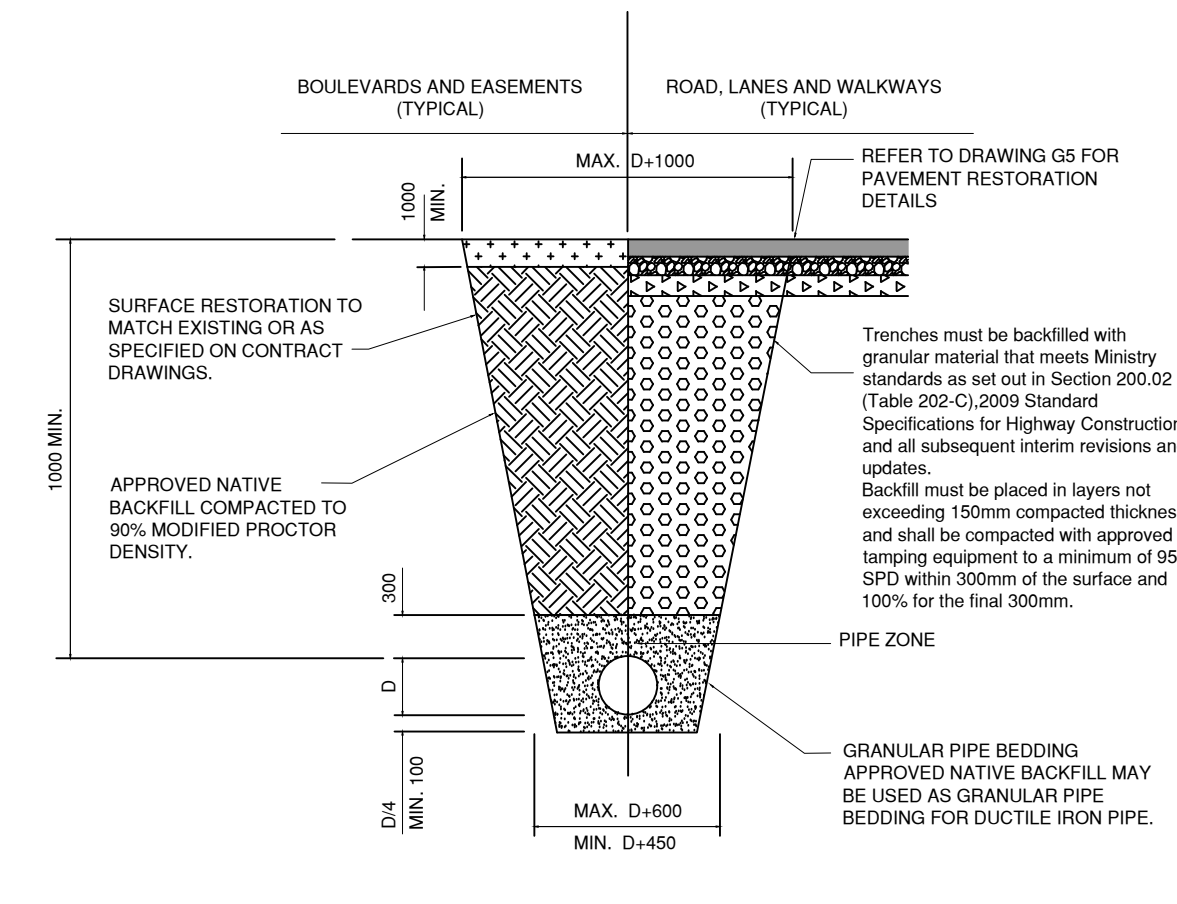


NOTE: PLEASE REFER TO RELEVANT SECTIONS FOR EXCEPTIONS, PROHIBITIONS, SPECIAL CASES/SCENARIOS, APPROVAL SEEKING PROCESS & OTHER RELEVANT GUIDELINES

MOTT TYPICAL REQUIREMENTS

DRAWING NUMBER: **MOTT3**

SUPPLEMENTARY DETAIL



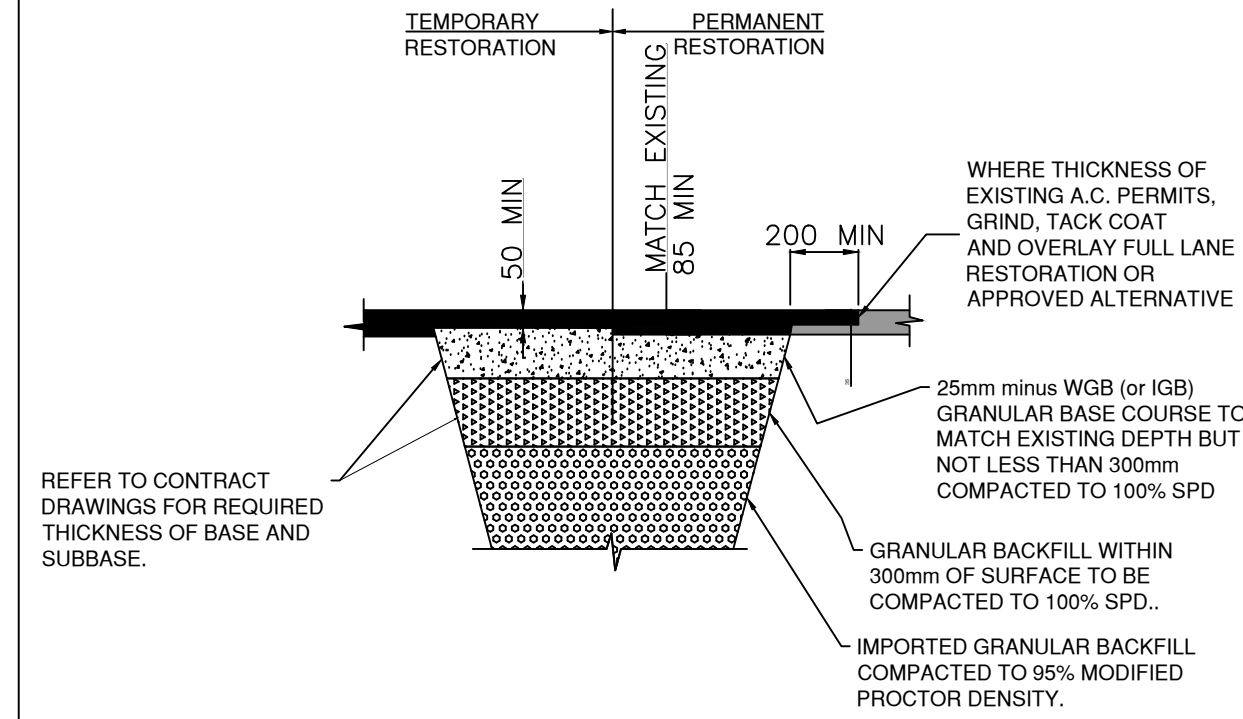
NOTE: 1. TRENCHING TO COMPLY WITH ALL REQUIREMENTS OF WORKSAFE BC.
2. REFER TO CONTRACT DRAWINGS, SECTION 31 23 01 FOR DETAILED SPECIFICATIONS.
3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

NOT TO SCALE.

UTILITY TRENCH

DRAWING NUMBER: **G4**

SUPPLEMENTARY DETAIL



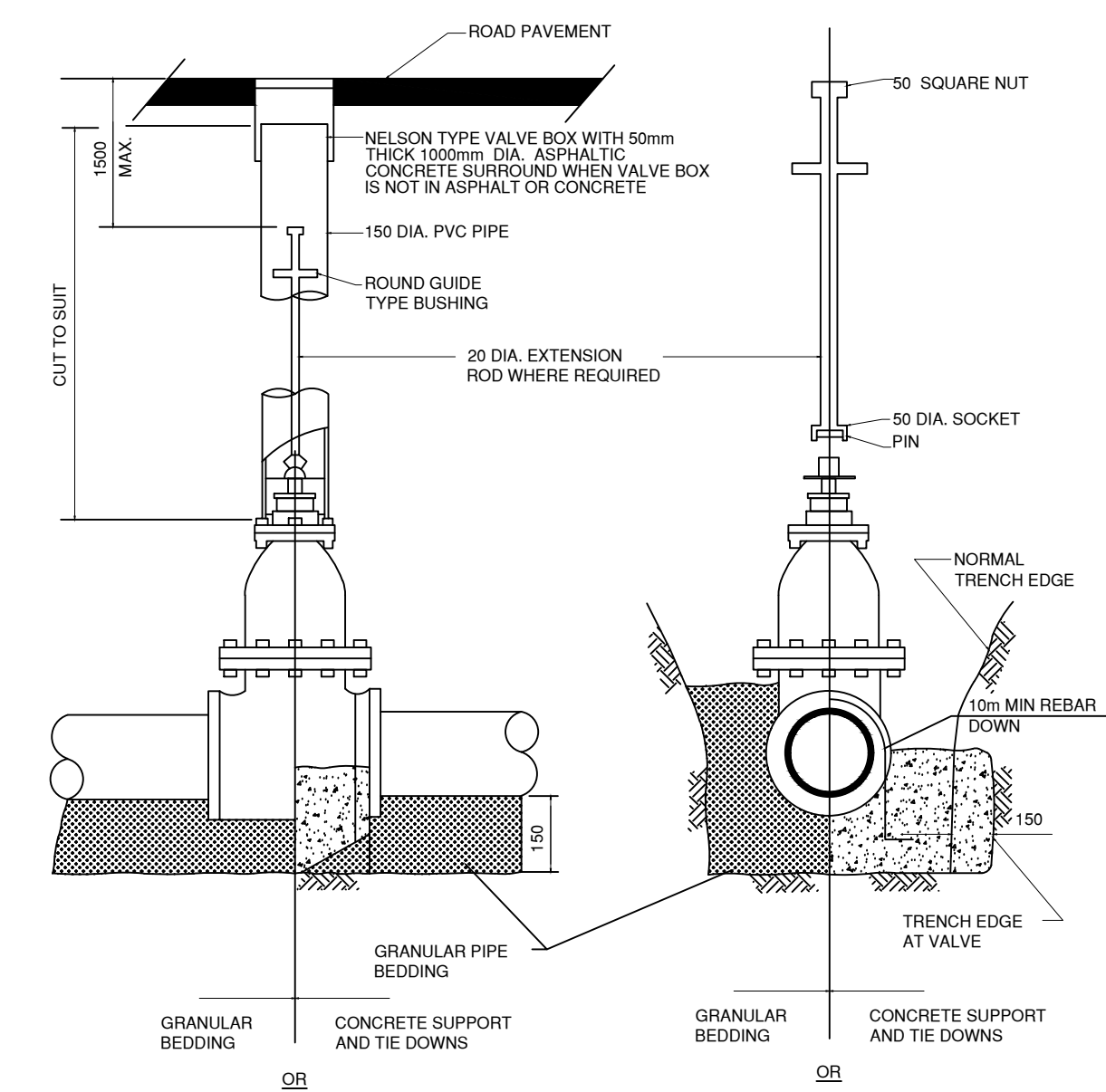
NOTE: 1. REFER TO CONTRACT DRAWINGS, SECTIONS 31 23 01 AND 32 12 16 FOR DETAILED SPECIFICATIONS.
2. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

NOT TO SCALE.

PAVEMENT RESTORATION

DRAWING NUMBER: **G5**

SUPPLEMENTARY DETAIL

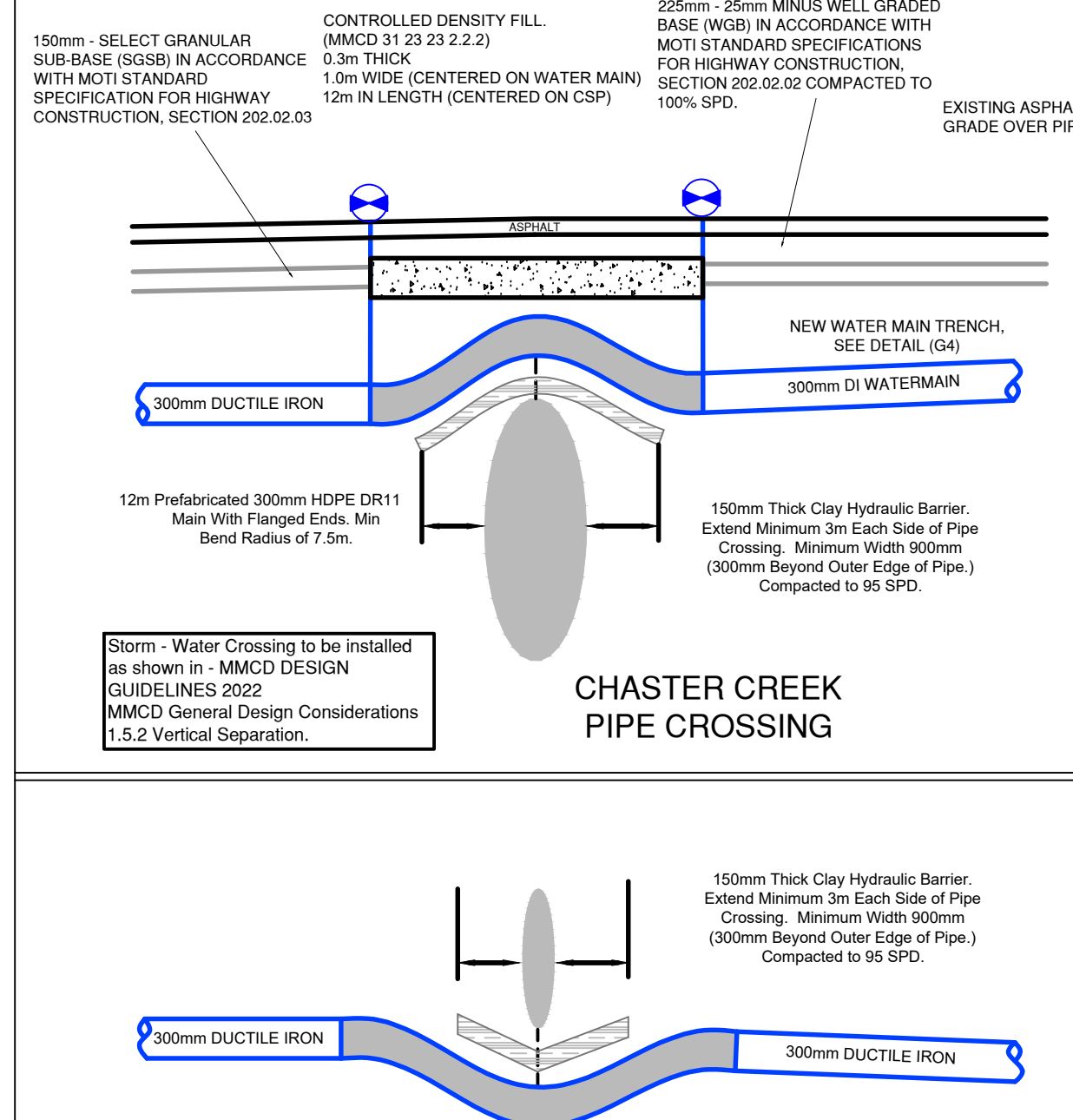


NOTE: 1. REFER TO CONTRACT DRAWINGS FOR VALVE INSTALLATION DETAILS IN AREAS OF UNSTABLE GROUND (WHERE APPLICABLE).
2. REFER TO CONTRACT DRAWINGS AND SECTION 02666 FOR DETAILED SPECIFICATIONS.

GATE VALVE INSTALLATION

DRAWING NUMBER: **W3**

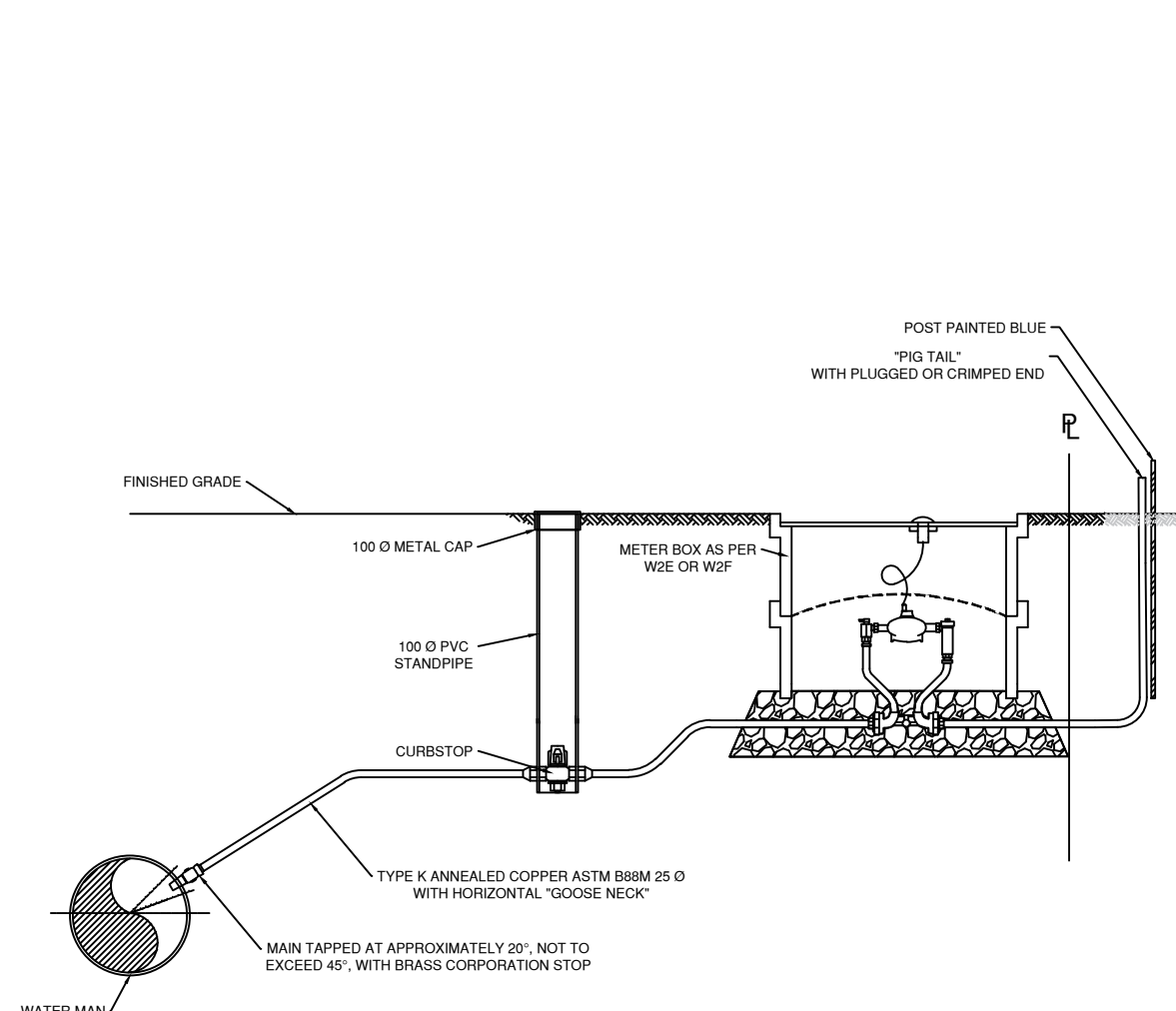
SUPPLEMENTARY DETAIL



PIPE CROSSINGS

DRAWING NUMBER: **SCRD-PC1**

SUPPLEMENTARY DETAIL



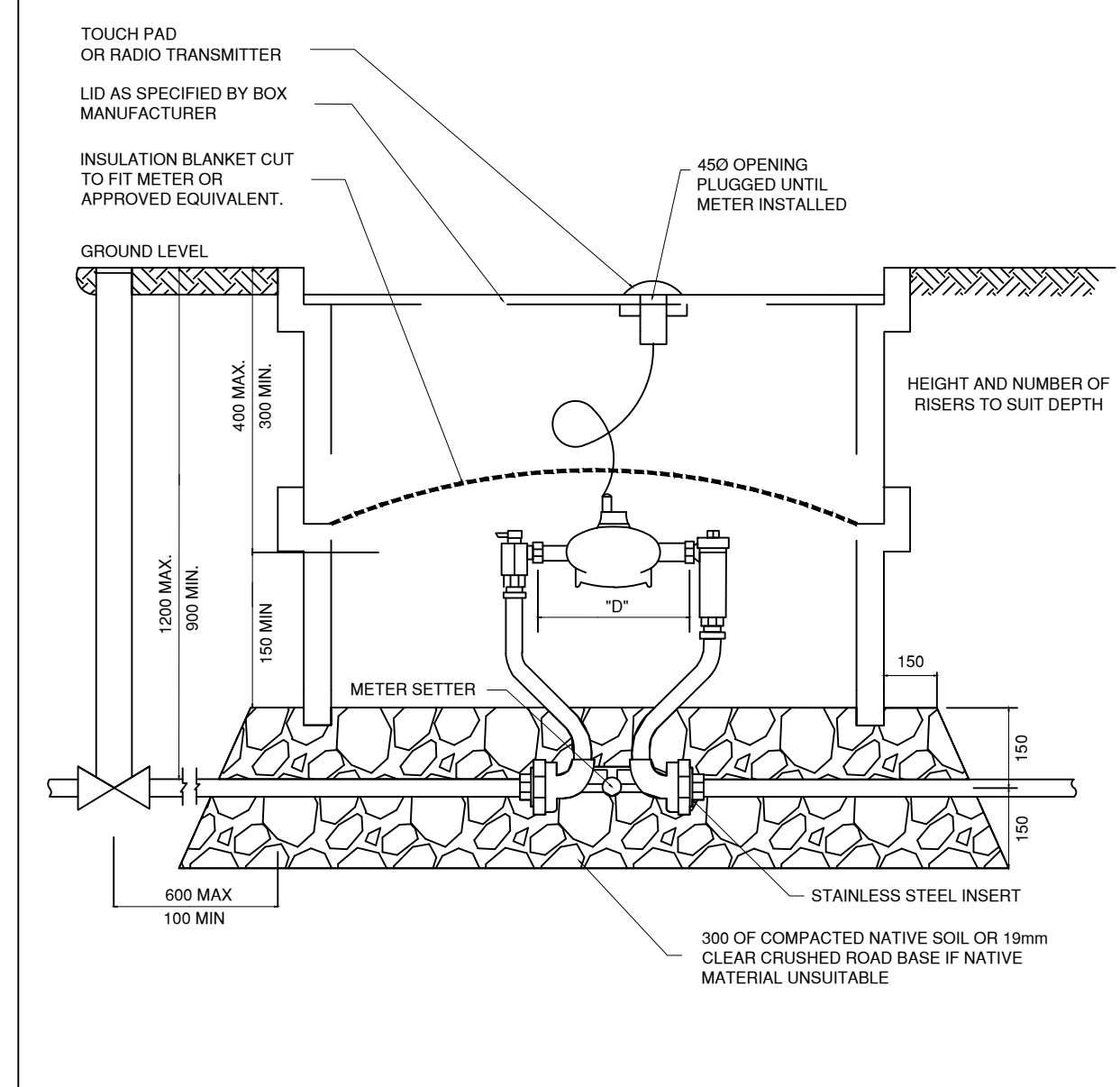
25mm Ø TO 50mm Ø CONNECTION

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



NOTES:
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 VALVE, LOCKABLE BYPASS VALVE IF APPLICABLE, AND CHECK VALVE OUTLET.
3. METER BOX TO BE ARMTEC UTILITY BOX OR APPROVED EQUIVALENT.
4. REFER TO DRAWING NUMBER W2B FOR DETAIL OF SERVICE CONNECTION.
5. ALL MEASUREMENTS IN MILLIMETERS UNLESS STATED OTHERWISE.

METER SETTER SPACING AND TYPE		
METER SIZE	"Ø"	METER BOX
15mm	191mm	ARMTEC AE B937
19mm	229mm	ARMTEC AE B937
25mm	273mm	ARMTEC AE T266
30mm	330mm	ARMTEC AE T266
38mm	426mm	ARMTEC AE 5096

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)	2026-01-06



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

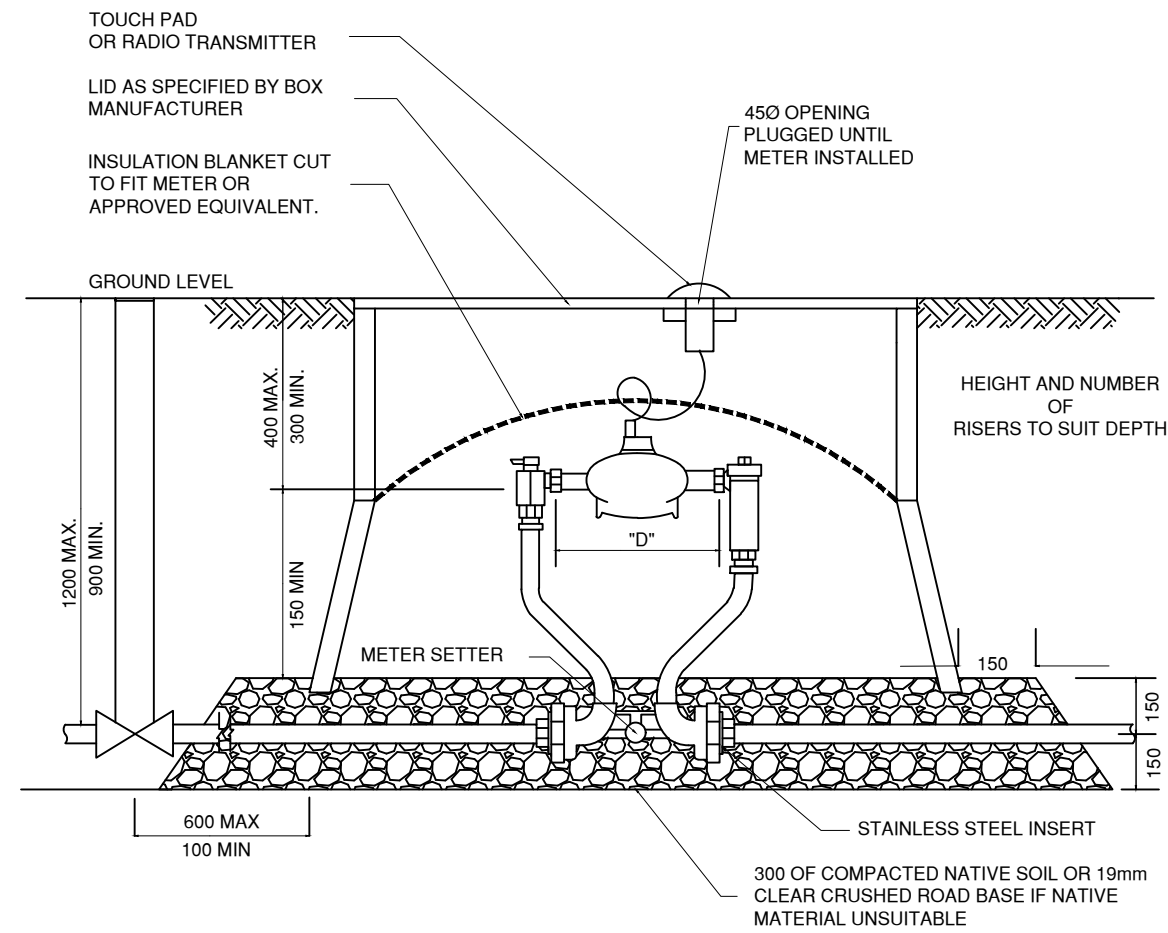
DESIGNED BY:	SM
DRAWN BY:	MM
CHECKED BY:	SM
APPROVED BY:	JW

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

SUPPLEMENTARY DETAIL



SETTERS TO BE FORD VBHH, MANUFACTURED IN PLACE OR APPROVED EQUIVALENT

NOTES:

- METER TO BE SUPPLIED AND INSTALLED BY SUNSHINE COAST REGIONAL DISTRICT.
- 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.
- METER BOX TO BE ARMOR UTILITY BOX OR APPROVED EQUIVALENT.
- REFER TO DRAWING NUMBER W8 FOR DETAIL OF SERVICE CONNECTION.
- ALL MEASUREMENTS IN MILLIMETERS UNLESS STATED OTHERWISE.

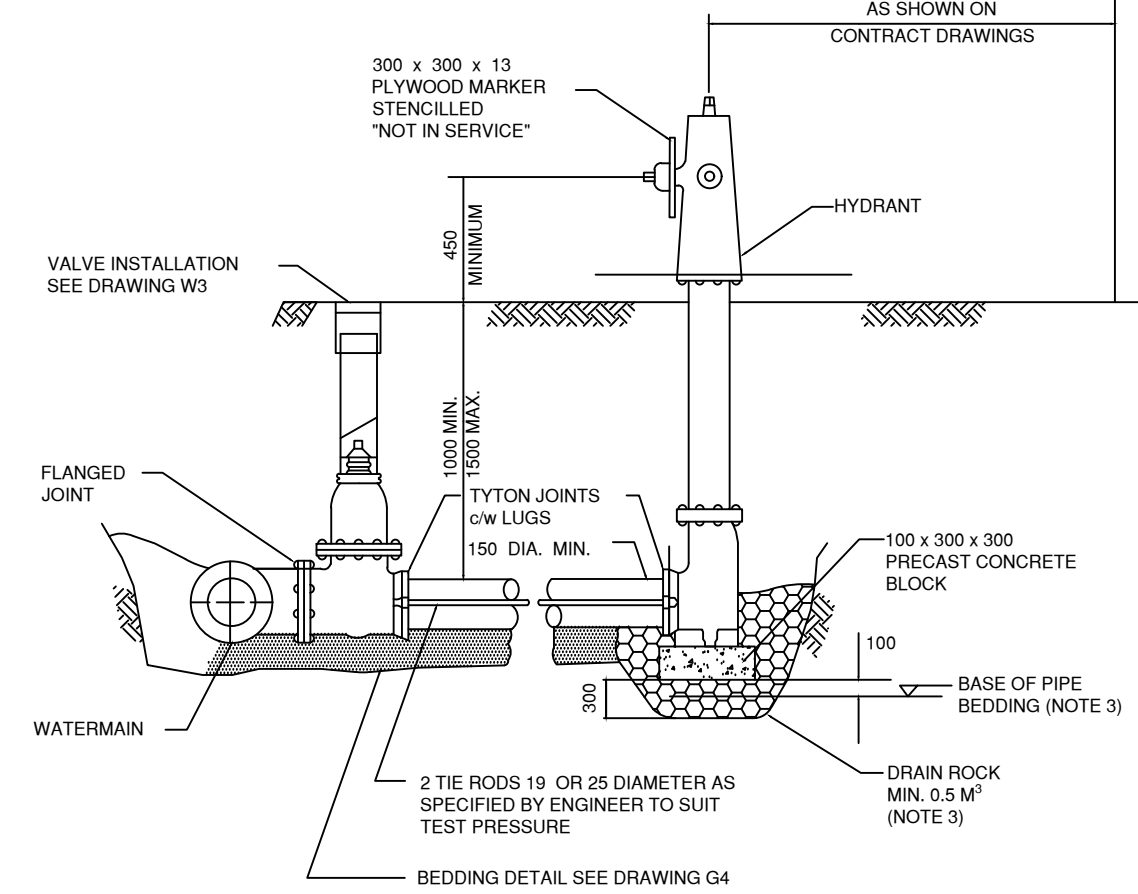
METER SETTER SPACING AND TYPE		
METER SIZE	"D"	METER BOX
16mm	191mm	ARMOR STANDARD
19mm	229mm	ARMOR JUMBO
25mm	273mm	ARMOR XL
38mm	330mm	ARMOR XL
50mm	430mm	ARMOR XL

METER INSTALLATION IN NON-VEHICULAR TRAFFIC AREAS

NOT TO SCALE

DRAWING NUMBER: **W2F**

SUPPLEMENTARY DETAIL

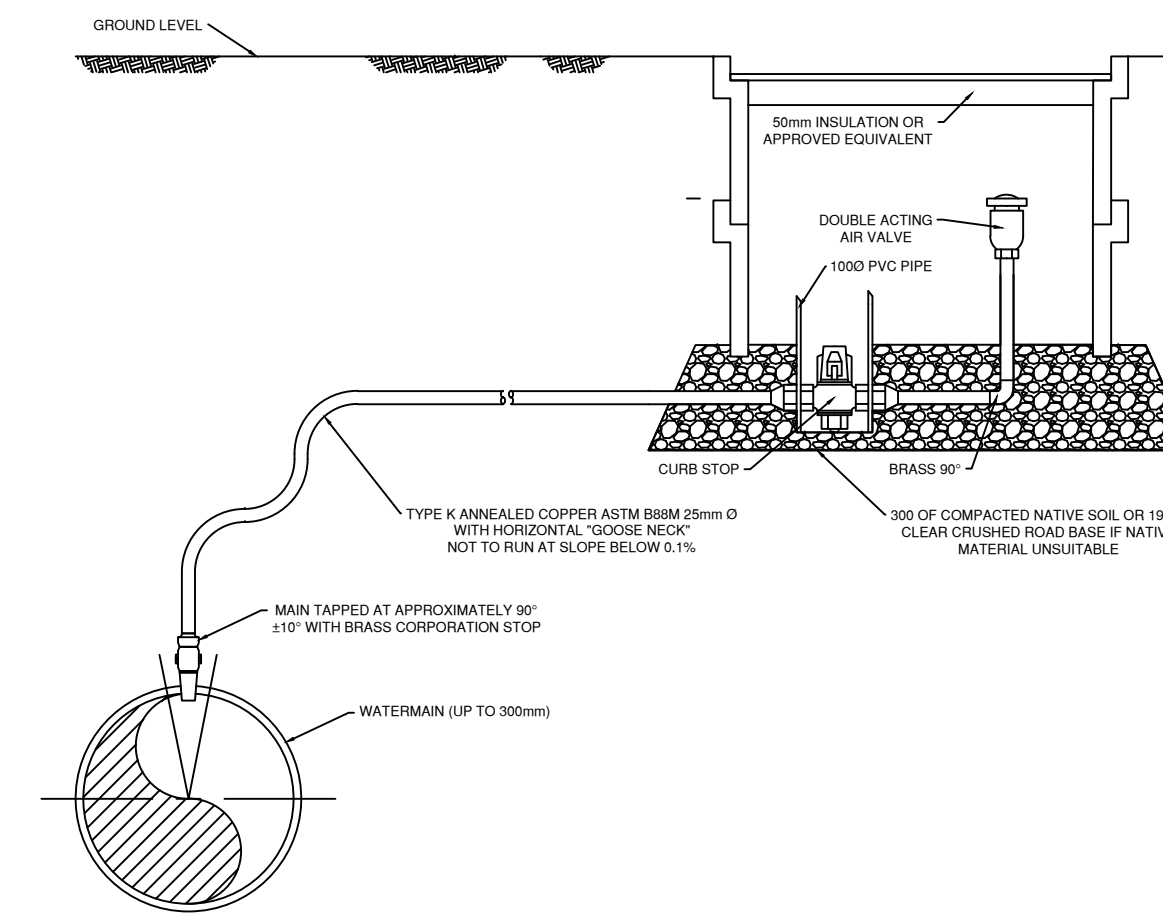


- NOTE:**
- FIRE HYDRANTS TO BE TERMINAL CITY 20P.
 - THREADED PORTS TO BE USED IN DISTRICT OF SECHELT FIRE PROTECTION AREA. STORZ CONNECTIONS TO BE USED ELSEWHERE.
 - REFER TO SUPPLEMENTAL SPECIFICATIONS FOR HYDRANT PAINTING REQUIREMENTS.
 - FOR INSTALLATIONS SHOWN ON CONTRACT DRAWINGS WHERE WATER (AT SEASONAL HIGH) IS ABOVE BASE OF DRAIN ROCK, INSERT THREADED PLUGS IN DRAIN HOLES AND SUBSTITUTE GRANULAR PIPE BEDDING FOR DRAIN ROCK (COMPACT PIPE BEDDING TO 95% MODIFIED PROCTOR DENSITY).
 - IF REQUIRED BY MOTI, UPM STANDARDS, FLANGED STUB IS TO INCORPORATE BETWEEN THE TEE AT THE MAIN AND THE HYDRANT GATE VALVE TO LOCATE HYDRANT VALVES AWAY FROM THE PAVED SURFACE.
 - ALL JOINT RESTRAINTS TO BE MEGALUG SERIES 1100, 1700, 2100 AND SERIES 3800 AS REQUIRED.

FIRE HYDRANT INSTALLATION

DRAWING NUMBER: **W4**

SUPPLEMENTARY DETAIL



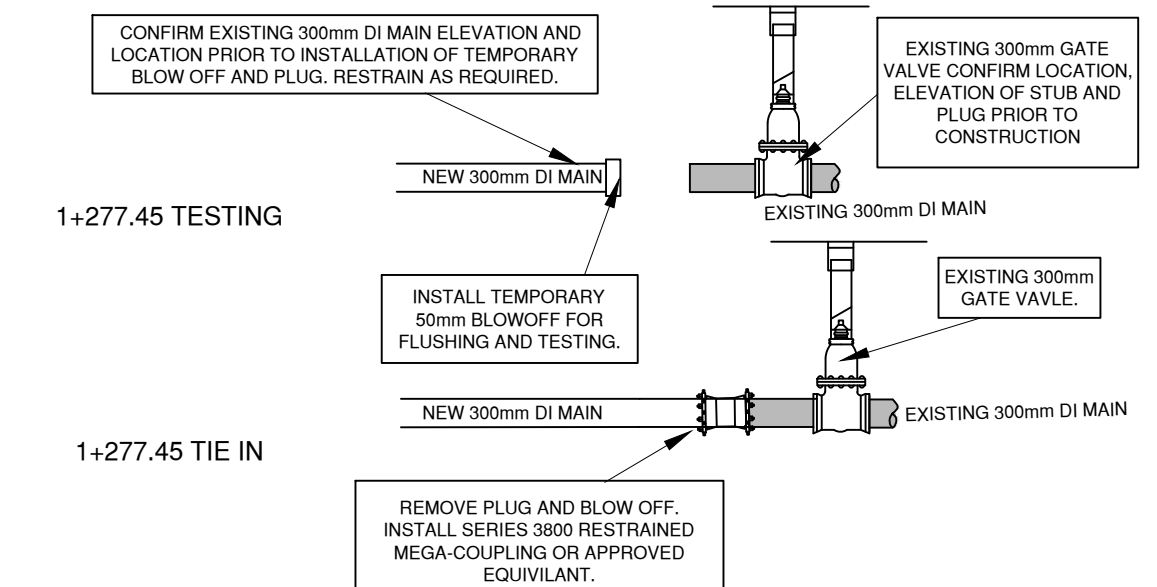
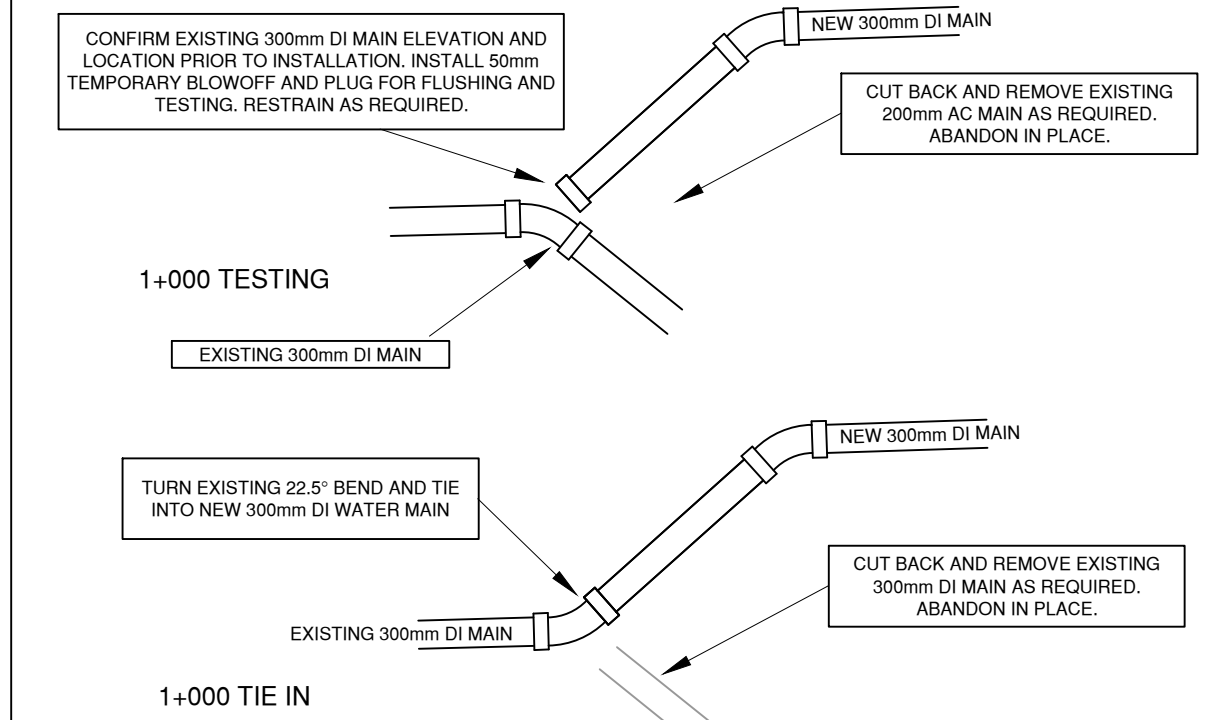
- NOTES:**
- METER BOX TO BE ARMTEC AE UTILITY BOX OR APPROVED EQUIVALENT
 - ALL MEASUREMENTS IN MILLIMETERS UNLESS STATED OTHERWISE
 - ALL AIR VALVES TO BE OF THE DOUBLE ACTING TYPE, TERMINAL CITY IRON WORKS, A, 24 OR EQUIVALENT

AIR VALVE ASSEMBLY

NOT TO SCALE

DRAWING NUMBER: **W6**

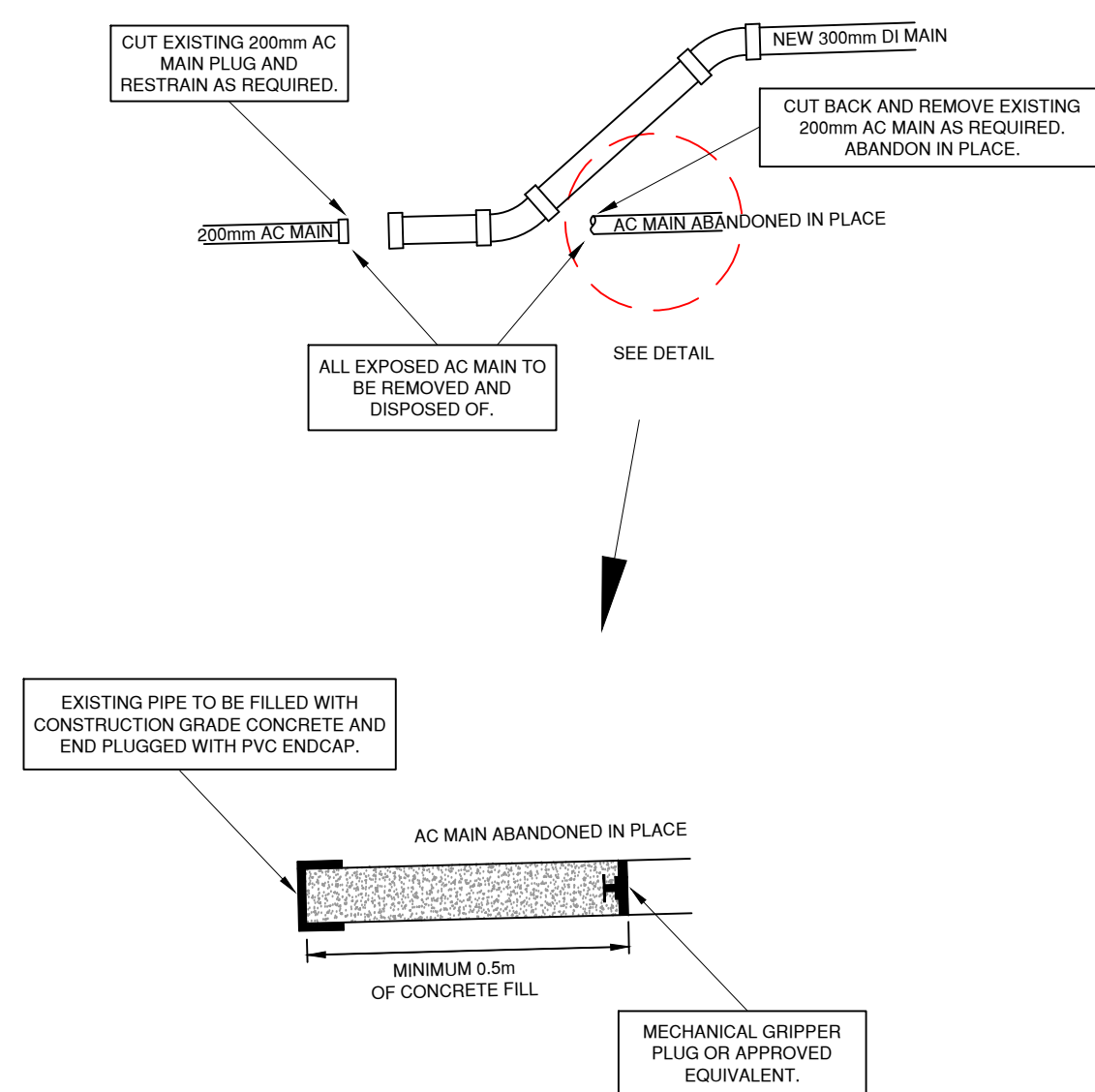
SUPPLEMENTARY DETAIL



WATER MAIN TIE IN

DRAWING NUMBER: **W9**

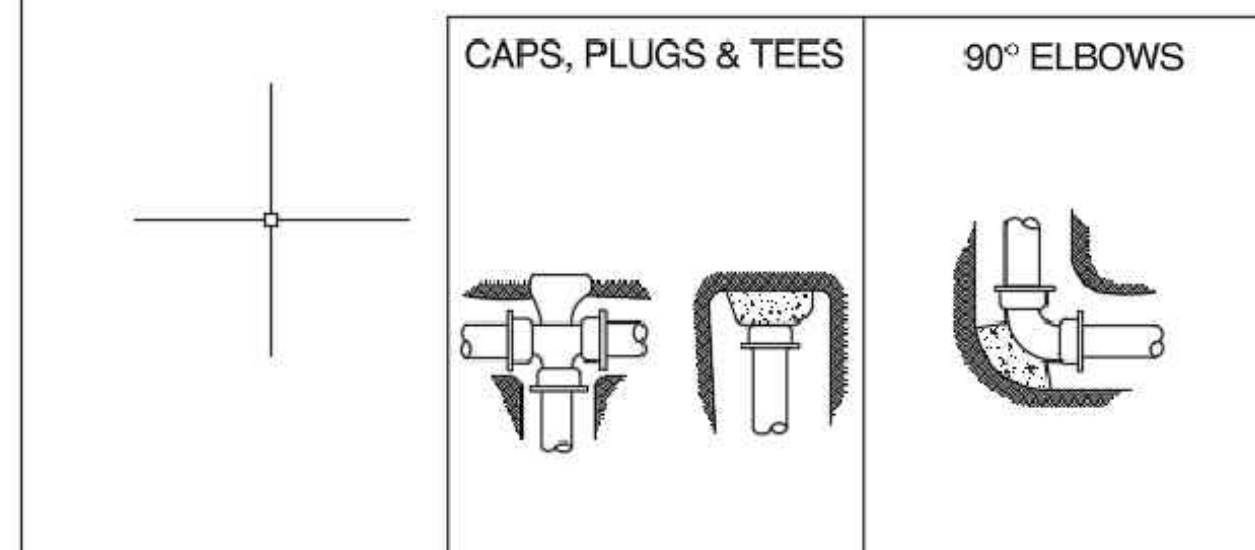
SUPPLEMENTARY DETAIL



WATER MAIN - ABANDONED IN PLACE

DRAWING NUMBER: **W10**

SCRD STANDARD DETAIL DRAWINGS

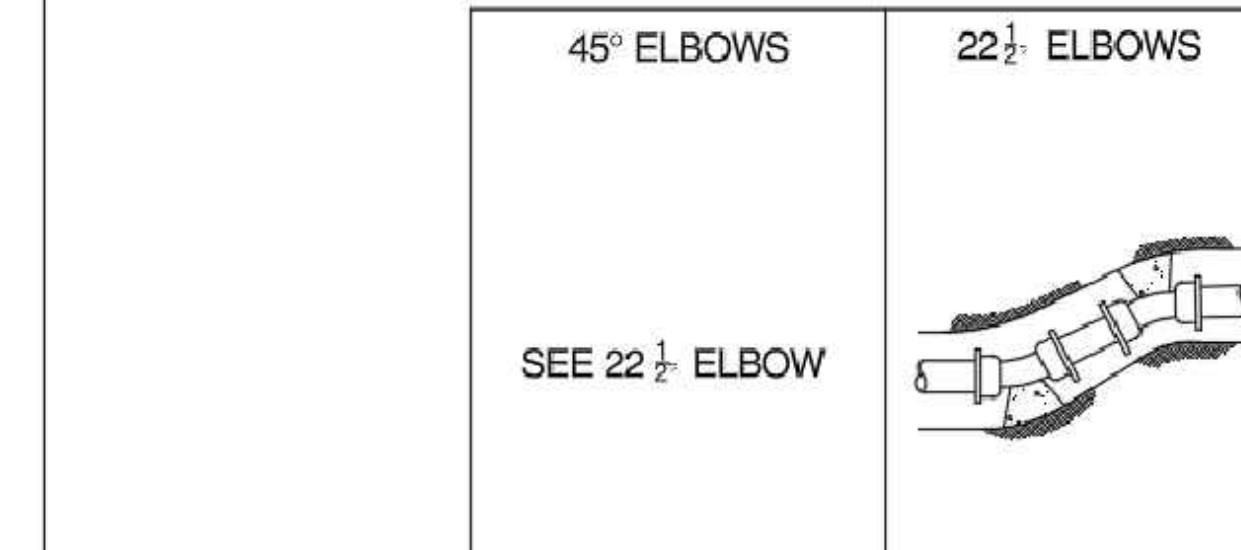


MAX. ALLOWABLE SOIL BEARING LOADS (kPa)	CAPS, PLUGS & TEES		90° ELBOWS	
	PIPE SIZE (mm)	PIPE SIZE (in)	THRUST (kN)	MIN. BLOCK BASE AREA (sqft)
HARDPAN OR SHALE 430.9	100	4	11	0.04
	150	6	24	0.08
	200	8	43	0.15
	300	12	97	0.34
HARD CLAY 287.3	100	4	11	0.06
	150	6	24	0.13
	200	8	43	0.23
	300	12	97	0.51
SAND 191.5	100	4	11	0.08
	150	6	24	0.19
	200	8	43	0.34
	300	12	97	0.76
SOFT CLAY 47.9	100	4	11	0.34
	150	6	24	0.76
	200	8	43	1.36
	300	12	97	3.66

CONCRETE BLOCKING

DRAWING NUMBER: **W8.1**

SCRD STANDARD DETAIL DRAWINGS

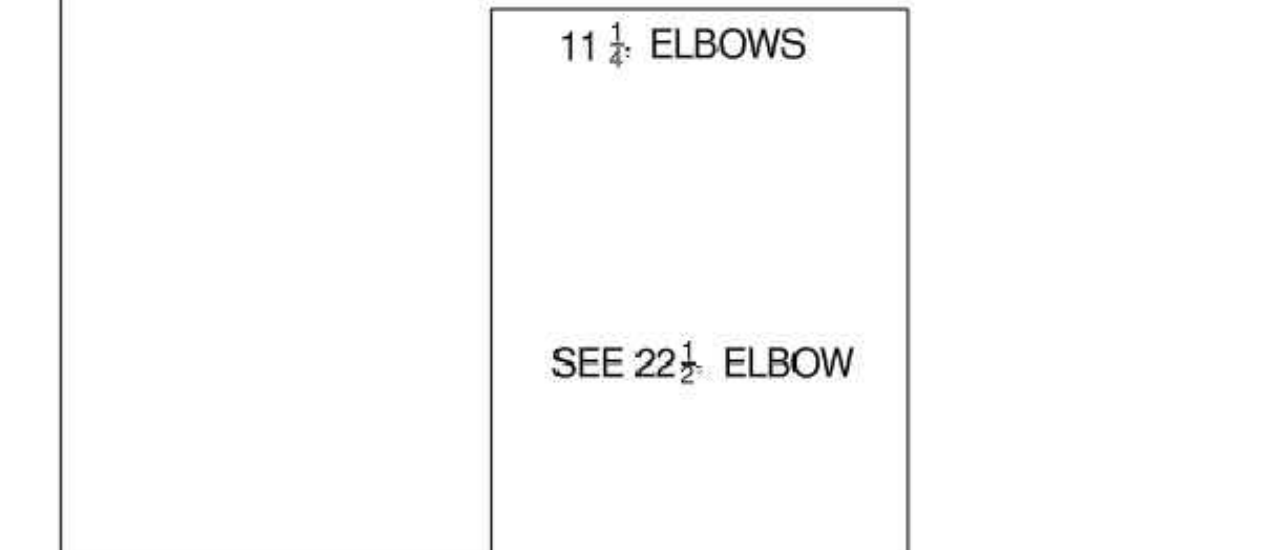


MAX. ALLOWABLE SOIL BEARING LOADS (kPa)	45° ELBOWS		22½° ELBOWS	
	PIPE SIZE (mm)	PIPE SIZE (in)	THRUST (kN)	MIN. BLOCK BASE AREA (sqft)
HARDPAN OR SHALE 430.9	100	4	8	0.03
	150	6	19	0.06
	200	8	33	0.11
	300	12	74	0.26
HARD CLAY 287.3	100	4	8	0.04
	150	6	19	0.10
	200	8	33	0.17
	300	12	74	0.39
SAND 191.5	100	4	8	0.06
	150	6	19	0.15
	200	8	33	0.26
	300	12	74	0.58
SOFT CLAY 47.9	100	4	8	0.26
	150	6	19	0.58
	200	8	33	1.03
	300	12	74	2.80

CONCRETE BLOCKING

DRAWING NUMBER: **W8.2**

SCRD STANDARD DETAIL DRAWINGS



MAX. ALLOWABLE SOIL BEARING LOADS (kPa)	11½° ELBOWS	
	PIPE SIZE (mm)	PIPE SIZE (in)
HARDPAN OR SHALE 430.9	100	4
	150	6
	200	8
	300	12
HARD CLAY 287.3	100	4
	150	6
	200	8
	300	12
SAND 191.5	100	4
	150	6
	200	8
	300	12
SOFT CLAY 47.9	100	4
	150	6
	200	8
	300	12

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)	2026-01-06



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