

28 FAIRFIELD STREET, PICTON, ONTARIO

JUNE 1, 2026

LIST OF DRAWINGS		
LEGEND	LEGEND SHEET	REVISION
SP1	SITE PLAN	REVISION
PP1	PLAN & PROFILE	REVISION
TD	TYPICAL DETAILS	REVISION
TD2	TYPICAL DETAILS	REVISION
TD3	TYPICAL DETAILS	REVISION



MAP SCALE - N/A

CAD PLOTTER: Bernardo Cruz Fuentes

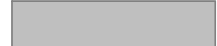
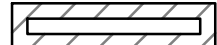
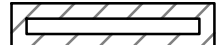
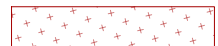
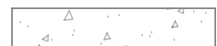
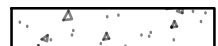
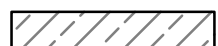
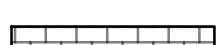
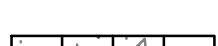
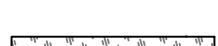
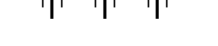
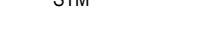
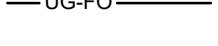
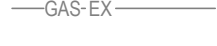
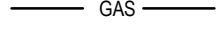
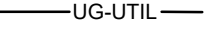
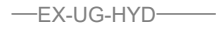
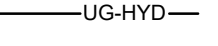
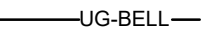
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DATE PLOTTED: 2026 / 06 / 25 @ 11:28 AM

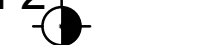
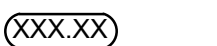
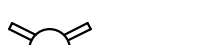
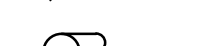
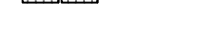
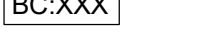
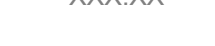
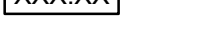
PLOT SCALE: 1:1

BORDER SIZE: ISO A1 (841mm x 594mm)

LEGEND

EXISTING		PROPOSED
	ASPHALT	
	BUILDINGS	
	CLEARING AND GRUBBING	
	CONCRETE	
	EARTH FILL	
	EASEMENT	
	GEOGRID	
	GRANULAR A	
	GRANULAR B / RIPRAP	
	GRASS	
	GRAVEL	
	INTERLOCKING BRICK	
	RETAINING WALL	
	ROAD REMOVAL	
	SIDEWALK	
	SLOPE PROTECTION AREA	
	BELL LINE	
	BOTTOM OF SWALE	
	CABLE TV LINE	
	EDGE OF PAVEMENT	
	FENCE	
	LIMITS OF CONSTRUCTION	
	OVERHEAD HYDRO	
	OVERHEAD UTILITY	
	PROPERTY LINES	
	RIGHT OF WAY LIMITS	
	ROAD CENTRELINE	
	SANITARY SEWER	
	SILT FENCE	
	SLOPE	
	STORM SEWER	
	SUBDRAIN	
	TREELINE	
	UNDERGROUND FIBRE	
	UNDERGROUND GAS	
	UNDERGROUND UTILITY	
	UNDERGROUND HYDRO	
	UNDERGROUND BELL	
	WATERMAIN	

LEGEND

EXISTING		PROPOSED
	BELL PEDESTAL	
	BORE HOLE LOCATION	
	BOTTOM OF SWALE ELEV	
	BUILDING ENTRANCE	
	CATCH BASIN	
	CLEAN OUT	
	CSP/HDPE CULVERT	
	CURB STOP	
	FIBER ROLL EROSION BARRIER	
	FUEL HATCH	
	GUY POLE	
	HYDRANT	
	HYDRO POLE	
	IRON BAR	
	POLE ANCHOR	
	ROCK FLOW CHECK DAM	
	SANITARY MANHOLE	
	SIGN	
	SITE BENCHMARK	
	SLOPE INDICATOR	
	STANDARD IRON BAR	
	LIGHT STANDARD	
	STORM MANHOLE	
	STRAW BALE FLOW CHECK DAM	
	SURFACE SLOPE	
	TACTILE PLATE	
	TOP/BOTTOM OF WALL	
	TOP/BOTTOM OF CURB	
	TOP OF GRADE ELEV	
	TREES	
	WALL LIGHT	
	WATER VALVE	
	WATER WELL	
	GAS	
	SANITARY FORCEMAIN	
	WATERMAIN	



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a division of Jp2g Consultants Inc.
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PHONE: 613-966-3068
FAX: 613-966-3087

NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH RELEVANT CODES AND GUIDELINES.

2. ALL DRAWINGS AND ADDENDA ARE TO BE READ AS, AND IN CONJUNCTION WITH THE SPECIFICATIONS.

3. ALL EQUIPMENT SHALL BE INSTALLED AS SPECIFIED OR APPROVED EQUIVALENT.

4. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH WORK AND BE RESPONSIBLE FOR SAME.

5. CONTRACTOR MUST REPORT ANY DISCREPANCIES TO ENGINEER FOR RESOLUTION BEFORE COMMENCING THE WORK.

6. ANY CHANGES MUST BE APPROVED BY THE ENGINEER.

A

B

A DETAIL NO.
B DRAWING NO. - WHERE DETAILED

LEGAL SURVEY SOURCE: EASTERN PORTION ONLY
WATSON LAND SURVEYORS LTD.
PLAN 24R - 9280, JULY 29 2022

UTILITY LOCATE SOURCE:
ONTARIO ONE CALL 'PAPER' LOCATES

GEOTECHNICAL SOURCE:
WIM CONSULTING DRAFT GEOTECHNICAL REPORT
FAIRFIELD ST MAY 13, 2026.

CONTROL POINTS/BENCHMARKS:
CP#1 - STANDARD IRON BAR
ELEVATION = 77.01
N = 4875471.3010
E = 328816.6934

CONTROL POINTS/BENCHMARKS:
CP#2 - CURB STOP
ELEVATION = 88.27
N = 4875452.7220
E = 328760.1029

CONTROL POINTS/BENCHMARKS:
CP#3 - WATER VALVE
ELEVATION = 88.22
N = 4875449.4190
E = 328747.9460

02	REVISED	26/06/01
01	ORIGINAL	22/11/09
REVISION	DESCRIPTION	DATE

NORTH

STAMP

PROJECT
28 FAIRFIELD STREET

PICTON, ONTARIO

DRAWING TITLE
LEGEND

DESIGNED BY
M. MCINTOSH

DRAWN BY
R. SILLS/B. CRUZ-FUENTES

REVIEWED BY
P. ZANDBERGEN

APPROVED BY
M. MCINTOSH

PROJECT DATE
2026/05/04
(YY/MM/DD)

PROJECT #
26-5020A

DRAWING #
LEGEND

DRAWING SCALE (ISO A1)
HOR: N/A
VER: N/A

NOTE:
PRE CONSTRUCTION CHEMICAL SAIL TESTING HAS BEEN COMPLETED AS PART OF THE GEOTECHNICAL WORK. THE CONTRACTOR IS TO ENGAGE A GEOTECHNICAL PERSON TO PREPARE A SOIL MANAGEMENT PLAN IN ACCORDANCE WITH O.RES 406/P1, FOR ANY EXCESS SOIL GENERATED DURING CONSTRUCTION.

THE FOLLOWING MEASUREMENTS ARE APPROXIMATE AND ARE TO BE CONFIRMED PRIOR TO CONSTRUCTION.

STM CBMH1:
T/G = 84.896
SW INV = 80.016
N INV = 81.396

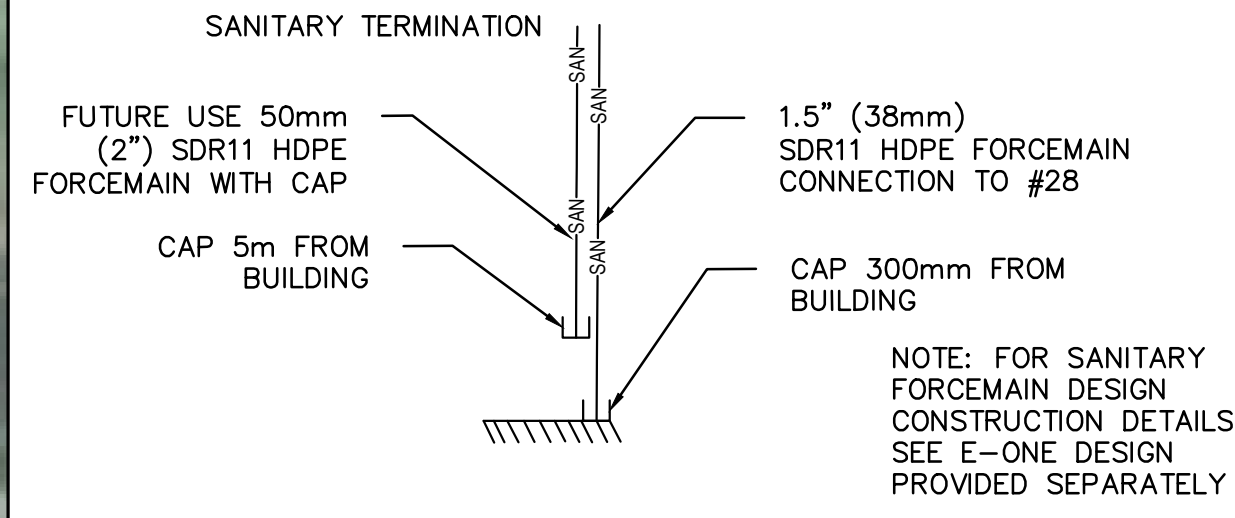
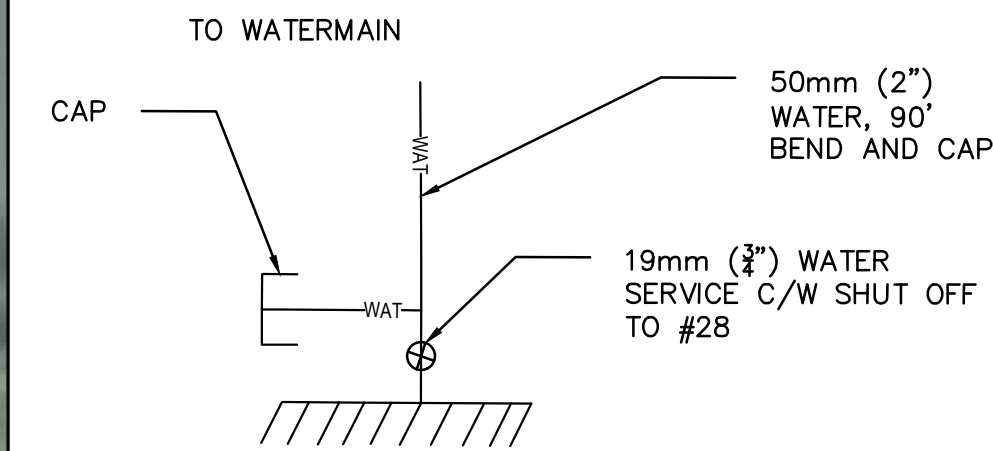
STM MH2:
T/G = 88.012
N INV = 85.24 (POSSIBLE EXTERNAL DROP STRUCTURE)
E INV = 85.24 (POSSIBLE EXTERNAL DROP STRUCTURE)
S INV = 83.13+ (COULD NOT BE MEASURED ACCURATELY DUE TO DEPTH)

SAN MH3
T/G = 88.16
E INV (FORCEMAIN OUTLET) = 86.94
S INV = 86.94 (NEW)
W INV = 86.94 (NEW BENCHING REQUIRED)

SAN MH4
T/G = 88.401
S INV = 86.671
W INV = NOT MEASURED
E INV = NOT MEASURED

NOTE:

1. LOCATION AND DEPTH OF NEW WATERMAIN AND SMALL DIAMETER FORCEMAIN TO BE ADJUSTED AS NECESSARY TO AVOID CONFLICT WITH INTERSECTING INFRASTRUCTURE AND UTILITIES.
2. POINTS OF CONFLICT ARE TO BE INVESTIGATED BY THE CONTRACTOR AND DAYLIGHTED AS NECESSARY TO CONFIRM ACTUAL EXISTING CONSTRUCTED CONDITIONS PRIOR TO CONSTRUCTION.
3. WHERE CONFLICTS EXIST, NEW PIPES ARE TO BE LOWERED TO MAINTAIN MINIMUM COVER AND FROST PROTECTION.
4. SINGLE LANE ACCESS IS TO BE MAINTAINED DURING CONSTRUCTION. THE LOCATION OF PROPOSED WORK MAY BE ADJUSTED (WITH APPROVAL) IF NECESSARY TO MAINTAIN ACCESS.
5. PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO COMPLETE A TEST EXCAVATION TO CONFIRM GROUND WATER CONDITIONS TO DETERMINE DEWATERING REQUIREMENTS AND PROVIDE A DEWATERING PLAN FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.
6. FROST DEPTH TO BE PER OPSD 3090.11.
7. TRACER WIRE IS REQUIRED ON ALL NON-TRACEABLE PIPE INCLUDING TERMINATION BOX (BINGHAM & TAYLOR P200NFG) AND TESTING.





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A

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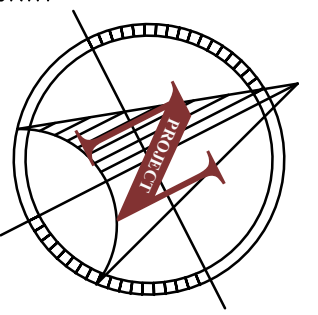
CONTROL POINTS/BENCHMARKS:
CP#2 - CURB STOP
ELEVATION = 88.27
N = 4875452.7220
E = 328760.1029

SANITARY FORCEMAIN
DESIGN: BY OTHERS (E-ONE)

FAIRFIELD STREET
SERVICING

03	REVISED	2026/06/01
02	COMBINED TRENCH	2023/02/13
01	FINAL	23/02/03

REVISION	DESCRIPTION	DATE



NORTH



STAMP

LICENSED PROFESSIONAL ENGINEER
M.D. McIntosh
100056710
June 1st 2026
PROVINCE OF ONTARIO

PROJECT
28 FAIRFIELD STREET

PICTON, ONTARIO

DRAWING TITLE
SITE PLAN

DESIGNED BY
M. MCINTOSH

DRAWN BY
R. SILLS/B. CRUZ-FUENTES

REVIEWED BY
P. ZANDBERGEN

APPROVED BY
P. ZANDBERGEN

PROJECT DATE
2026/05/04
(YYY/MM/DD)

PROJECT #
26-5020A

DRAWING #
SP1

DRAWING SCALE (ISO A1)
HOR: 1 : 200
VER: N/A

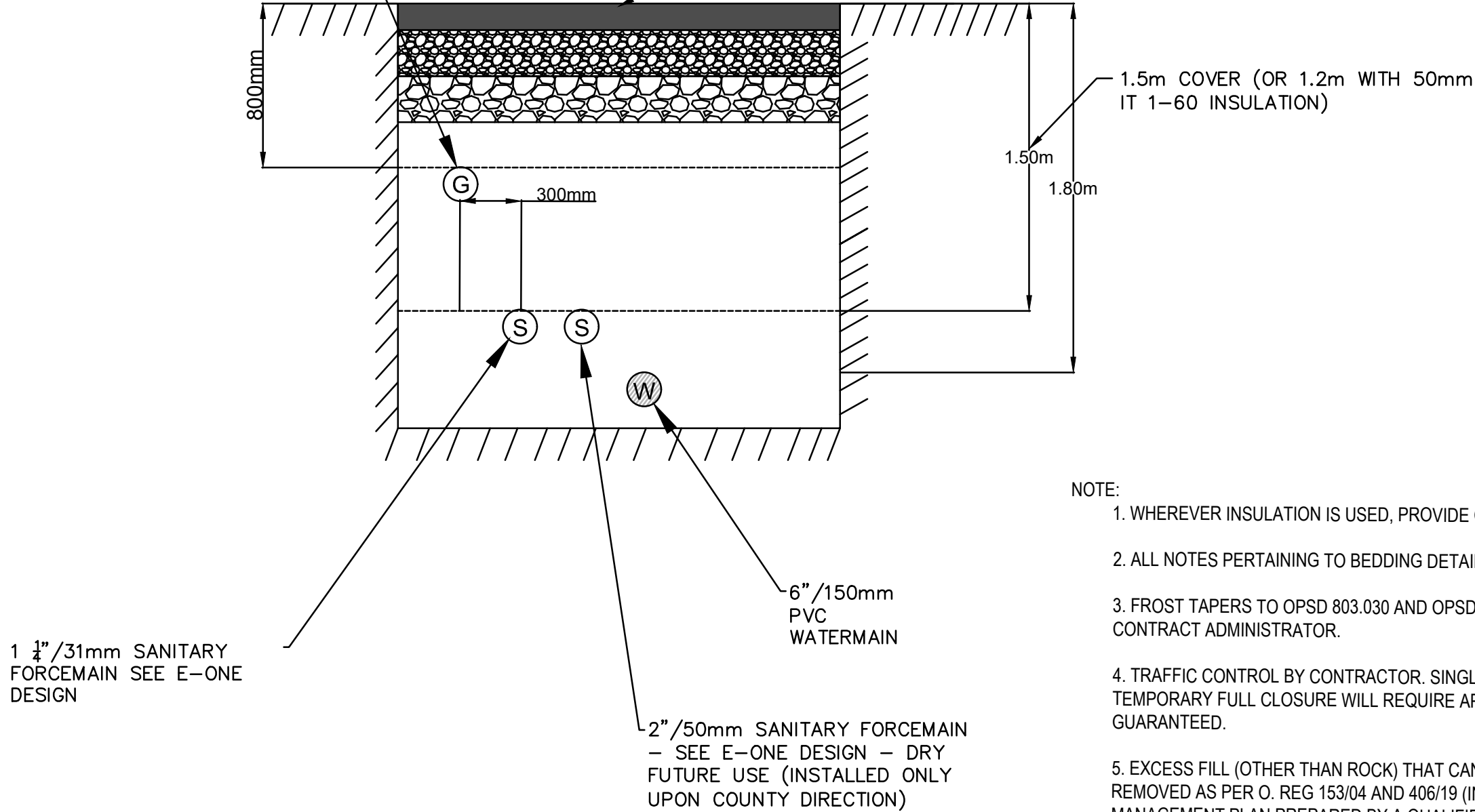
SCALE 1:200

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DRAWING #	DRAWING SCALE (ISO A1)
PP1	HOR: 1 : 250 VER: 1 : 50

GAS – DETAILS TO BE PROVIDED BY THE UTILITY

- TRENCH REINSTATEMENT:
- 50mm HL3
 - 150mm GRANULAR A
 - 300mm GRANULAR B (TYPE 2)



- NOTE:
1. WHEREVER INSULATION IS USED, PROVIDE GRANULAR 'A' BEDDING AND COVER.
 2. ALL NOTES PERTAINING TO BEDDING DETAILS SHALL APPLY.
 3. FROST TAPERS TO OPSD 803.030 AND OPSD 803.031 AND AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
 4. TRAFFIC CONTROL BY CONTRACTOR. SINGLE LANE ACCESS IS TO BE MAINTAINED. TEMPORARY FULL CLOSURE WILL REQUIRE APPROVAL AND CANNOT BE GUARANTEED.
 5. EXCESS FILL (OTHER THAN ROCK) THAT CANNOT BE REUSED ON SITE MUST BE REMOVED AS PER O. REG 153/04 AND 406/19 (INCLUDING CHEMICAL TESTING, FILL MANAGEMENT PLAN PREPARED BY A QUALIFIED PERSON, MATERIAL TRACKING, ETC.) (*SEE PRELIMINARY TESTING IN WIM GEOTECHNICAL REPORT.)

1 TRENCH DETAIL
TD N.T.S.

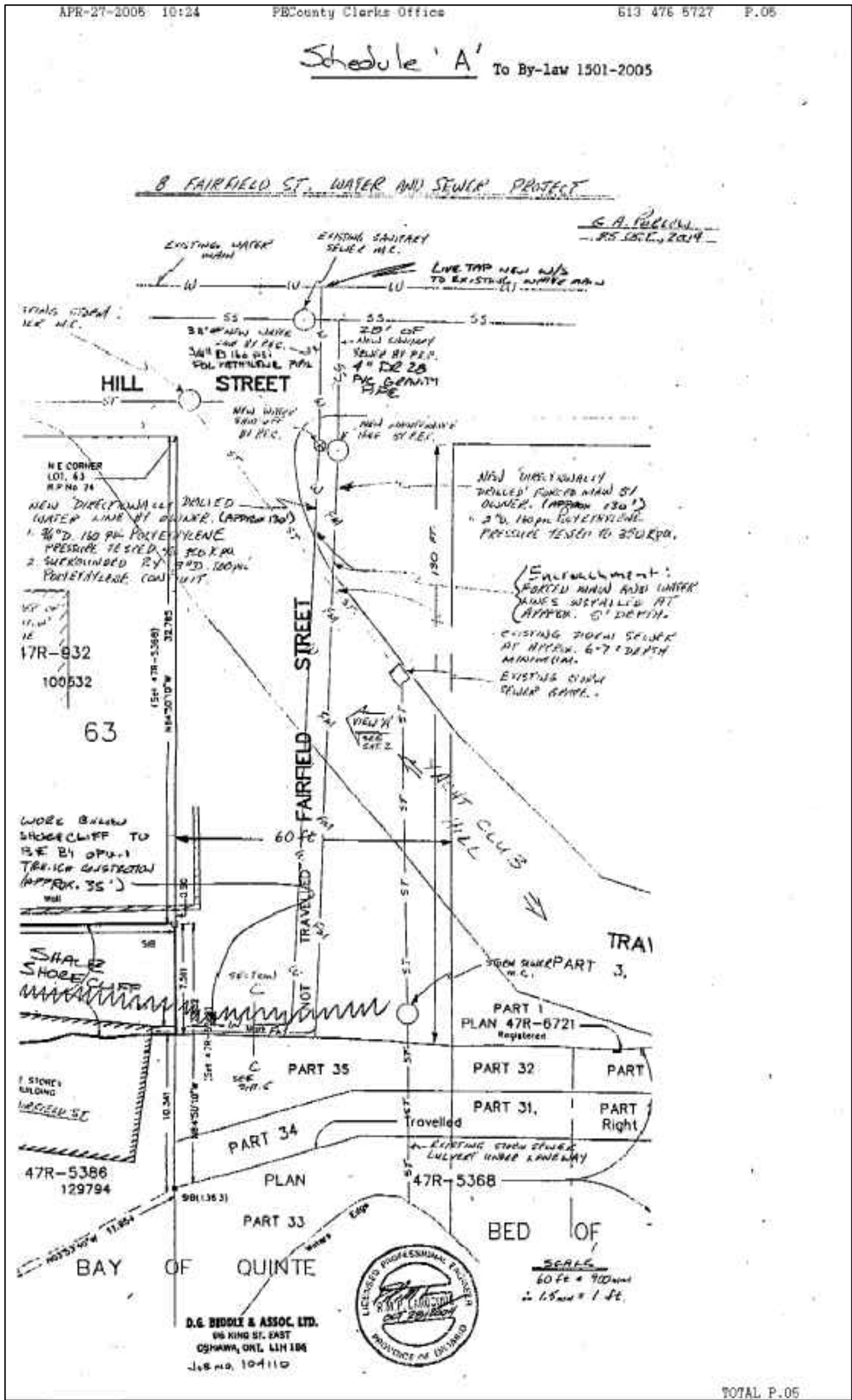
GENERAL NOTES

1. ALL DISTURBED AREAS SHALL BE REINSTATED TO EXISTING CONDITIONS OR BETTER, UNLESS OTHERWISE NOTED, TO THE SATISFACTION OF THE CITY & CONTRACT ADMINISTRATOR, AT THE OWNER'S EXPENSE.
2. EXISTING STRUCTURES ARE NOT TO BE DISTURBED, NOR ENCROACHMENT ON ADJACENT PROPERTIES UNLESS INSTRUCTED BY THE ENGINEER.
3. THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S CONTRACTOR FROM OBTAINING, BUT NOT LIMITED TO THE FOLLOWING PERMITS: ROAD CUT, SEWER PERMITS RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS, APPROACH APPROVAL PERMITS, ETC.
4. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE SITE PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER BEFORE PROCEEDING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES AS PER OPSD 706 AND THE ONTARIO TRAFFIC MANUAL BOOK 7 DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS, AND BARRIERS.
6. ALL CONSTRUCTION WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
7. SLOPES IN LANDSCAPE AREAS AND ON BERMS SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL.
8. THE MUNICIPALITY IS TO BE NOTIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
9. ALL STORM MANHOLES AND CATCH BASINS SHALL HAVE A 600mm SUMP.
10. FROST PROTECTION FOR UNDERGROUND PIPING SHALL BE AS PER OPSD 803.030 AND 803.031 WITH A FROST TREATMENT DEPTH OF 1.5m.
11. SUBGRADE TO BE PROOF-ROLLED FOR COMPACTION PRIOR TO PLACEMENT OF GRANULAR BASE.
12. LOCATION AND DEPTH OF PRESSURE WATERMAIN AND SMALL DIAMETER FORCEMAIN TO BE ADJUSTED AS NECESSARY TO AVOID CONFLICT WITH INTERSECTING INFRASTRUCTURE AND UTILITIES.
13. POINTS OF CONFLICT ARE TO BE INVESTIGATED BY THE CONTRACTOR AND DAYLIGHTED AS NECESSARY TO CONFIRM ACTUAL CONSTRUCTED CONDITIONS.
14. WHERE CONFLICTS EXIST, NEW PIPE ARE TO MAINTAIN MINIMUM COVER AND FROST PROTECTION.
15. SMALL DIAMETER SANITARY FORCEMAIN SERVICE TO BE DESIGNED BY OTHERS (E-ONE). APPROXIMATE LOCATION SHOWN FOR REFERENCE.
16. ALL NON-TRACEABLE WORKS ARE TO HAVE TRACER WIRE PROVIDED INCLUDING TERMINAL BOXES (BINGHAM & TAYLOR P200NFG).

SEDIMENTATION AND EROSION CONTROL DURING CONSTRUCTION

CONTROL OF EROSION ON CONSTRUCTION SITES, AND THE REMOVAL OF SEDIMENTS FROM CONSTRUCTION SITE RUN-OFF, IS VERY IMPORTANT IF DOWNSTREAM AREAS ARE TO BE PROTECTED DURING CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO PROVIDE AN EROSION CONTROL PLAN FOR APPROVAL BY THE CONTRACT ADMINISTRATOR PRIOR TO START OF CONSTRUCTION THAT CLEARLY DEMONSTRATES HOW THE FOLLOWING TECHNIQUES WILL BE IMPLEMENTED.

1. CONTROL/LIMIT VEHICLE ACCESS TO AND AROUND THE CONSTRUCTION SITE TO REDUCE THE AMOUNT OF DISTURBANCE OF NATURAL VEGETATION.
2. MUD MATS TO BE INSTALLED AT ALL POINTS OF ACCESS/EGRESS FROM EXISTING ROADS TO THE CONSTRUCTION SITE PRIOR TO SITE GRADING/CONSTRUCTION ACTIVITIES. MATS TO BE MAINTAINED UNTIL FINAL ROAD GRADING AND ASPHALT PLACEMENT. MATS ARE TO BE A MINIMUM 20m LONG BY 8m WIDE BY 0.3m THICK AND CONSTRUCTED OF 200-300mm RIP RAP.
3. EXISTING ROADWAYS TO BE SWEEPED AND CLEANED FREQUENTLY TO PREVENT THE TRACKING OF MUD AND DEBRIS FROM SITE.
4. ALL DISTURBED AREAS ON AND OFF SITE ARE TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED. RE-VEGETATION OF DISTURBED AREAS IS TO BE COMPLETED AS SOON AS POSSIBLE AND NOT GREATER THAN 30 DAYS FOLLOWING DISTURBANCE.
5. EXPOSED SLOPES TO BE PROTECTED WITH NATURAL OR SYNTHETIC MULCHES/BLANKETS WHERE REQUIRED.
6. ALL CATCH BASINS AND MANHOLES WHICH MAY COLLECT SEDIMENT FROM DISTURBED AREAS SHALL HAVE FILTER CLOTH INSTALLED BETWEEN THE FRAME AND THE COVER, OR OTHER APPROVED MEANS OF SEDIMENTATION CONTROL.
7. LIGHT DUTY SILT FENCE (OPSD 219.110) TO BE INSTALLED ON THE DOWNSTREAM PERIMETER OF ALL DISTURBED AREAS AND STOCKPILES INCLUDING EARTH BEDDING AT BASE.
8. RIP RAP OR STRAW BALE CHECK DAMS (OPSD 219.210 & 219.100) TO BE PROVIDED WHERE FLOW CON CONCENTRATIONS ARE EXPECTED, INCLUDING IN SWALES AND UPSTREAM OF CULVERTS AND CATCH BASINS.
9. ALL EROSION CONTROL MEASURES TO BE MAINTAINED UNTIL THE CONTRIBUTING SURFACES HAVE BEEN ADEQUATELY STABILIZED I.E. ASPHALT, SOD OR 80% GRASS COVERED, TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
10. A VISUAL INSPECTION IS TO BE DONE DAILY AND SEDIMENT CONTROL MEASURES ARE TO BE CLEANED OF ANY ACCUMULATED SILT AS REQUIRED. THE DEPOSITS WILL BE DISPOSED OF AS PER THE REQUIREMENTS OF THE CONTRACT.
11. IN SOME CASES FILTER BARRIERS MAY BE REMOVED TEMPORARILY TO ACCOMMODATE THE CONSTRUCTION OPERATIONS. THE AFFECTED BARRIERS WILL BE REINSTATED AT NIGHT WHEN CONSTRUCTION IS COMPLETED. NO REMOVAL WILL OCCUR IF THERE IS A RUN-OFF OR PREDICTED RAINFALL EVENT UNLESS A NEW DEVICE HAS BEEN INSTALLED TO ENSURE THE CONTAINMENT OF EROSION OR SILTATION.
12. NO REFUELING OR CLEANING OF EQUIPMENT NEAR ANY EXISTING WATERWAYS.
13. PROPOSED COLLECTOR SWALES AS PER DESIGN DRAWINGS SHALL BE CONSTRUCTED AND IMMEDIATELY TREATED WITH TOPSOIL AND SOD.
14. DEWATERING TRAPS AS PER OPSD 219.240 TO BE USED TO PREVENT SEDIMENT LADEN WATERS FROM FLOWING INTO OFF SITE STORM SEWERS.



2 EXISTING CONDITIONS
TD N.T.S.

GREER GALLOWAY
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PLAN 24R - 9280, JULY 29 2022
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SANITARY FORCEMAIN
DESIGN: BY OTHERS (E-ONE)

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REVISION DESCRIPTION DATE

NORTH

STAMP

LICENSED PROFESSIONAL ENGINEER
M.D. McIntosh
100056710
June 1st 2026
PROVINCE OF ONTARIO

PROJECT
28 FAIRFIELD STREET

PICTON, ONTARIO

DRAWING TITLE
TYPICAL DETAILS

DESIGNED BY

DRAWN BY
R. SILLS/B. CRUZ-FUENTES

REVIEWED BY
P. ZANDBERGEN

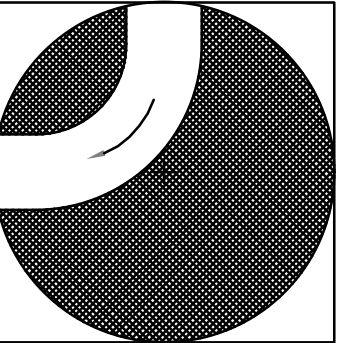
APPROVED BY
P. ZANDBERGEN

PROJECT DATE
2026/05/04 (YYY/MM/DD)

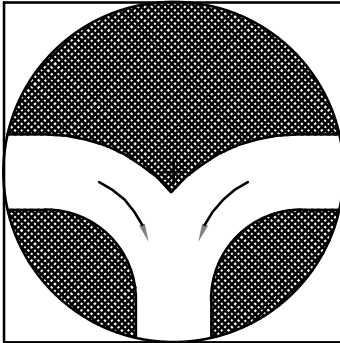
PROJECT #
26-5020A

DRAWING #
TD

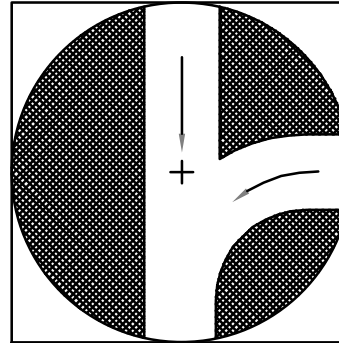
DRAWING SCALE (ISO A1)
HOR: N/A
VER: N/A



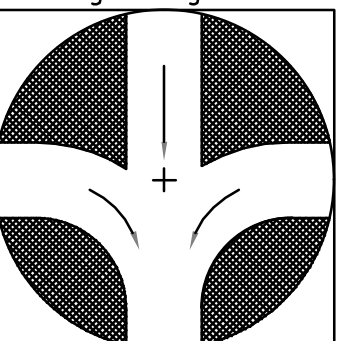
1. Right angle bend



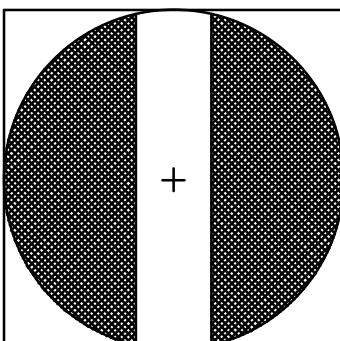
2. Tee connection



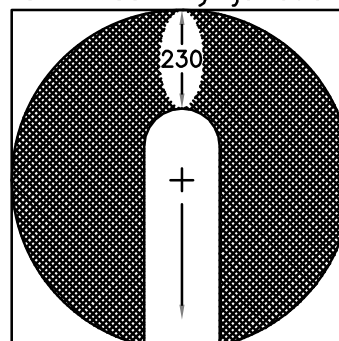
3. Three way junction



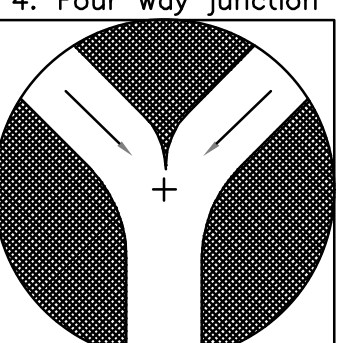
4. Four way junction



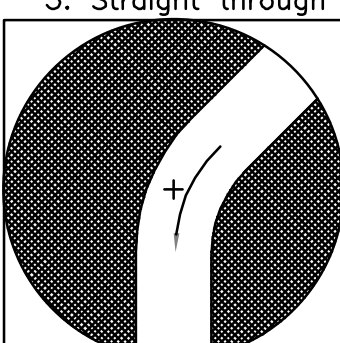
5. Straight through



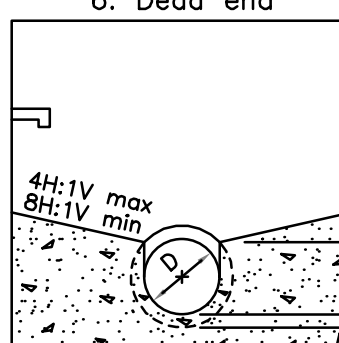
6. Dead end



7. Wye connection



8. 45° bend



Section

MAXIMUM SIZE HOLE IN THE WALL IN PRECAST RISER SECTIONS					
Maintenance Hole Diameter	No. 1-4	No. 5 and 6	No. 8	No. 7	
				Inlet Hole	Outlet Hole
1200	700	860	780	700	860
1500	860	1220	960	860	1170
1800	1220	1485	1220	1220	1485
2400	1485	2020	1760	1485	2020
3000	1930	2450	2300	1930	2450
3600	2470	3085	2730	2470	3085

NOTES:

1 Slopes shall be maintained from the outlet hole opening for top of benching.

A Concrete for benching shall be 30MPa.

B When benching is hand-finished, it shall be given wood float finish, channel shall be given steel trowel finish.

C Benchings slope and height shall be as specified.

D When specified, maintenance holes that are 1200mm in diameter with a uniform channel for 200 or 250mm pipe may be prebenched at the manufacturer with standardized benching slope and channel orientation.

E All dimensions are nominal.

F All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING

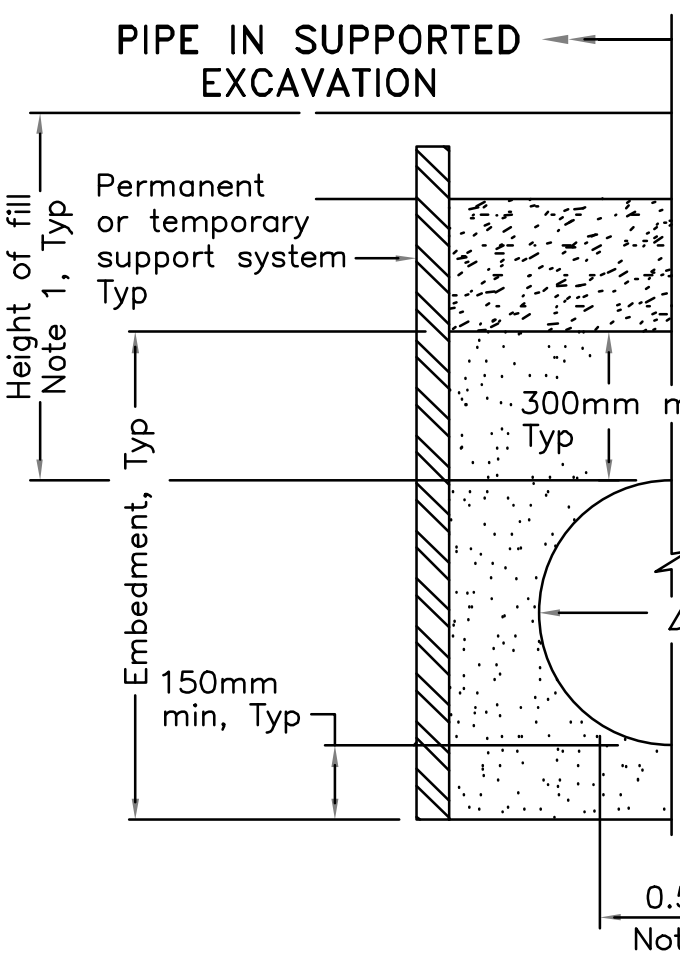
Nov 2014

Rev 4

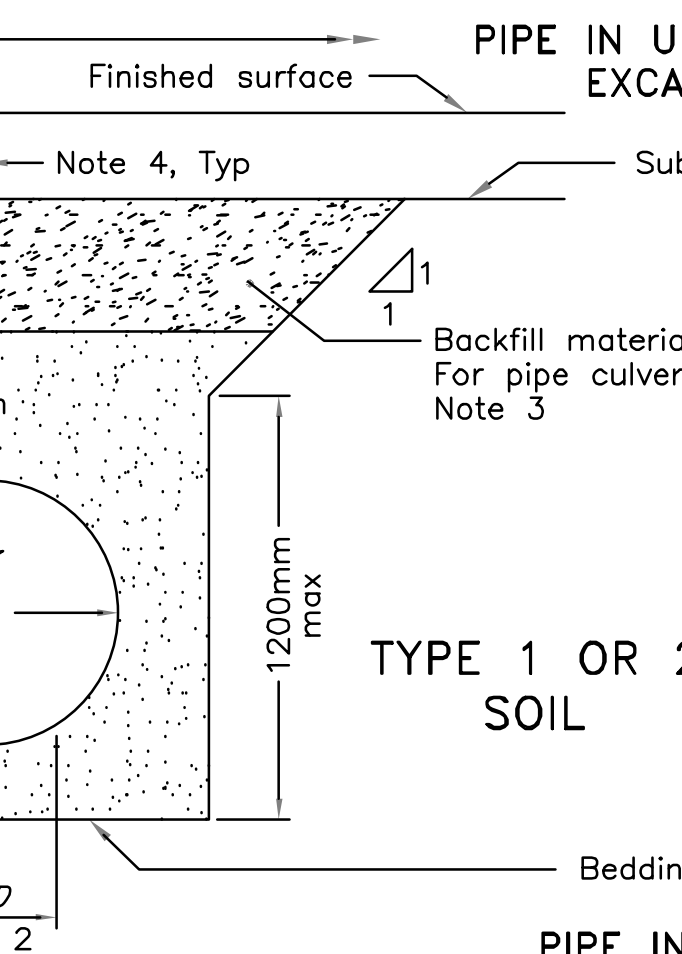


MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES

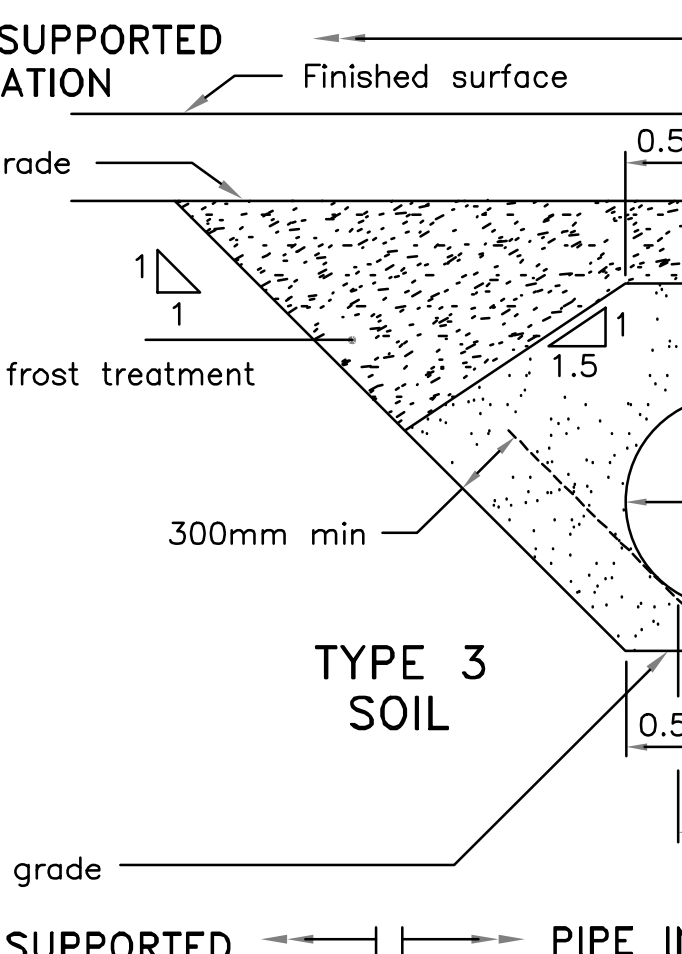
OPSD 701.021



PIPE IN SUPPORTED EXCAVATION



PIPE IN UNSUPPORTED EXCAVATION



PIPE IN SUPPORTED EXCAVATION

Height of fill Note 1, Typ

Permanent or temporary support system Typ

Embedment, Typ

150mm min, Typ

300mm Typ

1200mm max

0.5D Note 2

Finished surface

Note 4, Typ

Subgrade

Backfill material For pipe culvert frost treatment Note 3

1:1

1.5

0.5D

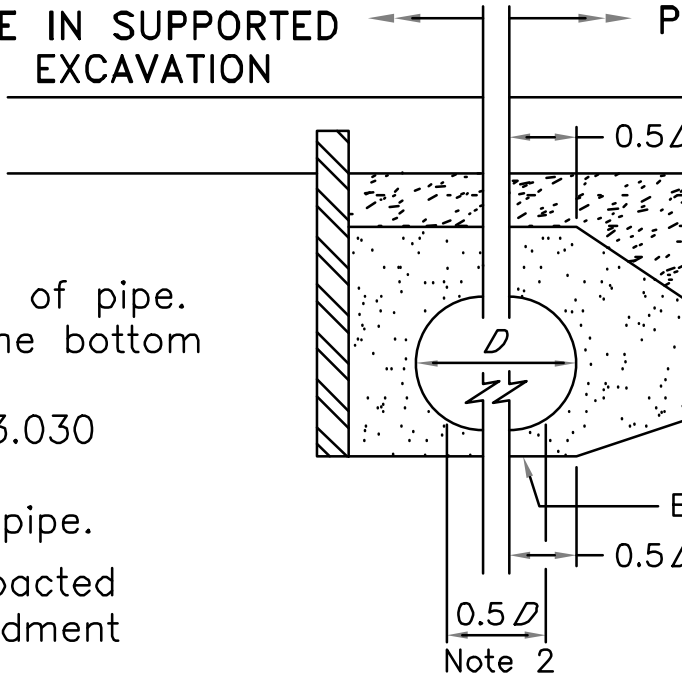
300mm min

TYPE 1 OR 2 SOIL

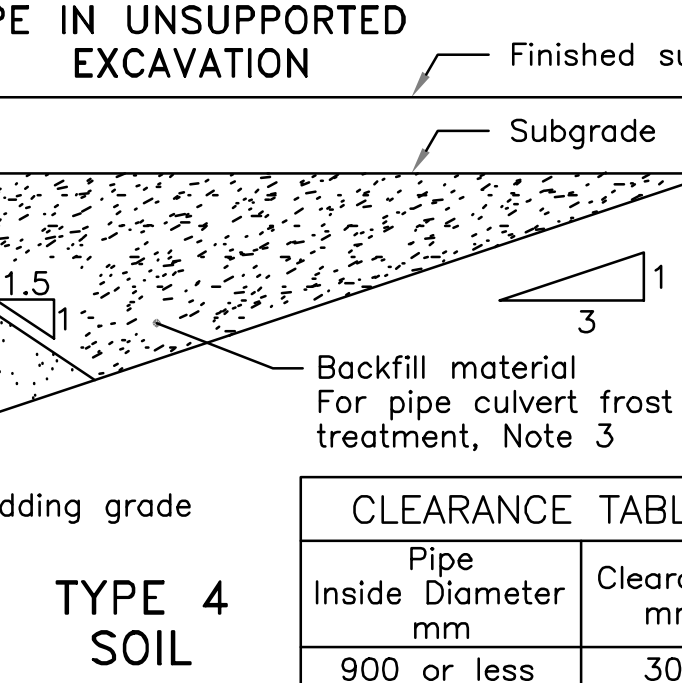
TYPE 3 SOIL

Clearance See table, Typ

Bedding grade



PIPE IN SUPPORTED EXCAVATION



PIPE IN UNSUPPORTED EXCAVATION

Finished surface

Subgrade

Backfill material For pipe culvert frost treatment, Note 3

1:1

3

0.5D

0.5D

Bedding grade

0.5D Note 2

TYPE 4 SOIL

CLEARANCE TABLE	
Pipe Inside Diameter mm	Clearance mm
900 or less	300
Over 900	500

LEGEND:

D - Inside diameter

NOTES:

1 Height of fill is measured from the finished surface to top of pipe.

2 The pipe bed shall be compacted and shaped to receive the bottom of the pipe.

3 Pipe culvert frost treatment shall be according to OPSD 803.030 and 803.031.

4 Condition of excavation is symmetrical about centreline of pipe.

A Granular material placed in the haunch area shall be compacted prior to placing and compacting the remainder of the embedment material.

B Soil types as defined in the Occupational Health and Safety Act and Regulations for Construction Projects.

C All dimensions are in metres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING

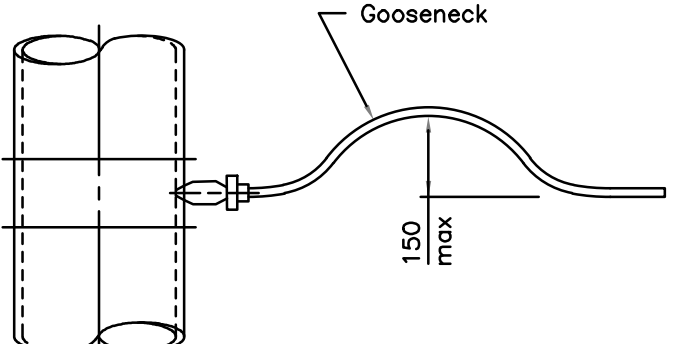
Nov 2014

Rev 3

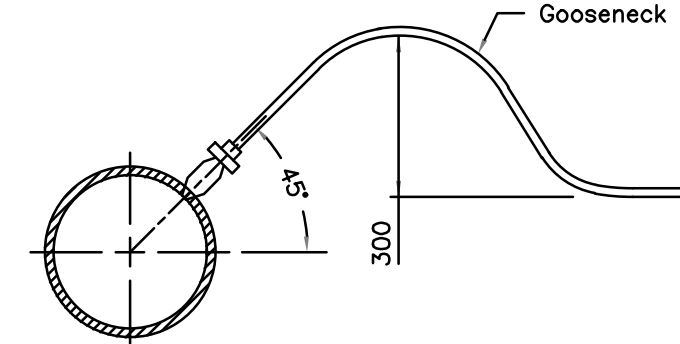


FLEXIBLE PIPE EMBEDMENT AND BACKFILL EARTH EXCAVATION

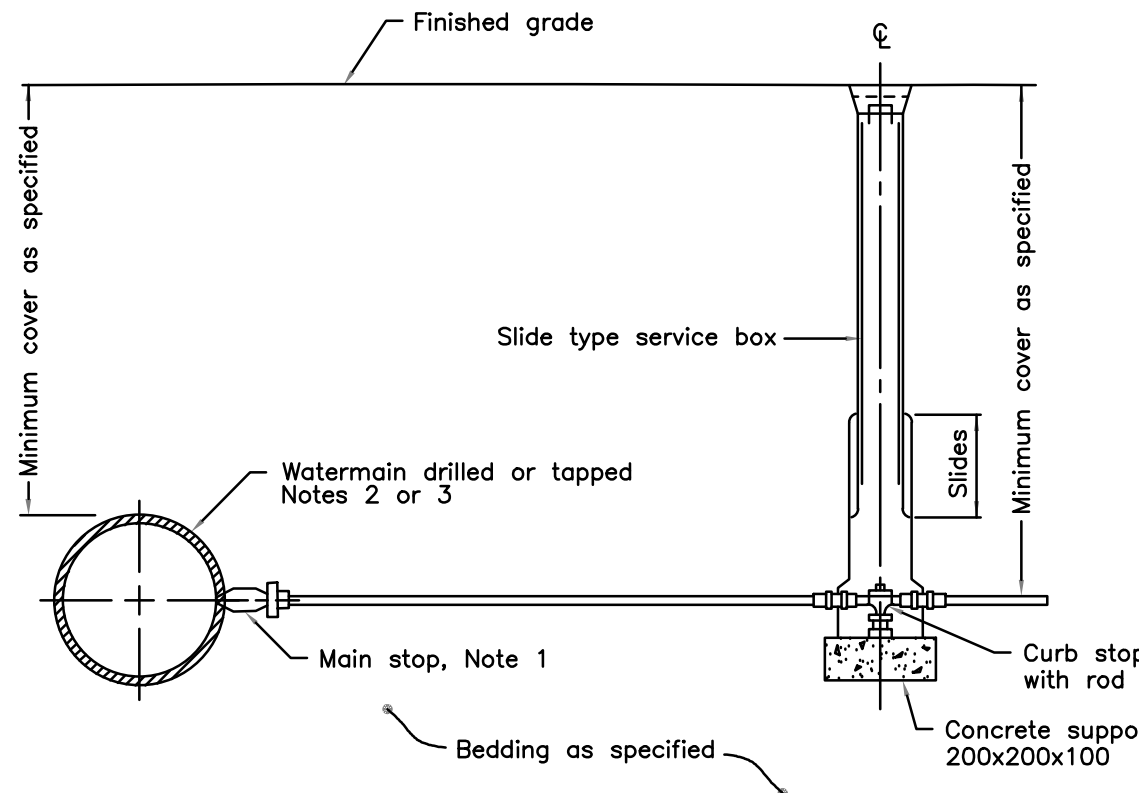
OPSD 802.010



HORIZONTAL GOOSENECK



VERTICAL GOOSENECK OPTION



VERTICAL SECTION

NOTES:

1 For plastic service pipes, install main stop at 15" above horizontal with a minimum 1.2m long gooseneck.

2 Direct tap ductile iron pipe with approved tool with standard AWWA inlet thread.

3 Service connections to plastic watermain shall be made using service saddles or factory made tees.

A When specified, the vertical gooseneck option shall be used.

B Couplings shall not be permitted unless the service length exceeds 20m between the main stop and curb stop.

C All water services shall be installed 90° to the longitudinal axis of the watermain.

D Backfill material within 500mm of service box shall be native or imported, as specified.

E All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING

Nov 2018

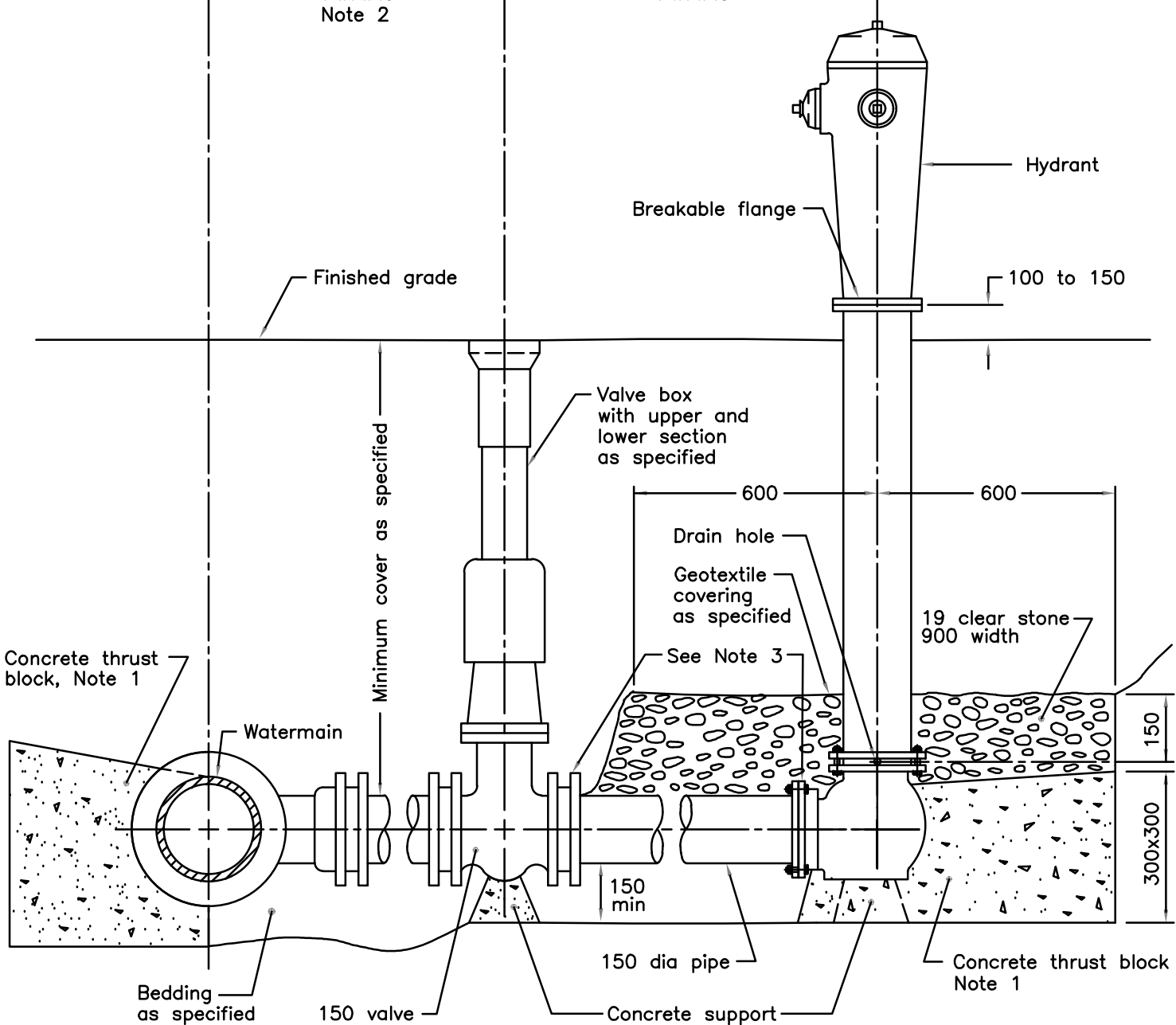
Rev 4



WATER SERVICE CONNECTION

19 and 25mm DIAMETER SIZES

OPSD 1104.010



HYDRANT INSTALLATION

NOTES:

1 All concrete thrust blocks shall be poured against undisturbed ground.

2 When specified, for watermain 400mm and less, locate valve within 1.0m of centreline of watermain. Retaining and restraining devices shall be utilized. For watermain 600mm and over, bolt valve with flanged end directly to flanged tee.

3 Retaining and restraining devices shall be as specified.

A Bond breaker shall be used between the concrete and the fittings and appurtenances.

B Bolts and nuts for buried flange to flange connections shall be stainless steel.

C When required, flange of standpipe extensions shall not be in frost zone.

D This OPSD shall be read in conjunction with OPSD 1103.010 and 1103.020.

E Backfill material within 500mm of service box shall be native or imported, as specified.

F Tracer wire shall be installed as specified.

G All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING

Nov 2018

Rev 3



HYDRANT INSTALLATION

OPSD 1105.010



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01	FINAL	23/02/03

REVISION

DESCRIPTION

DATE

NORTH

STAMP



LICENSED PROFESSIONAL ENGINEER
M.D. McIntosh
100056710
June 1st 2026
PROVINCE OF ONTARIO

PROJECT

28 FAIRFIELD STREET

PICTON, ONTARIO

DRAWING TITLE

TYPICAL DETAILS

DESIGNED BY

DRAWN BY

R. SILLS/B. CRUZ-FUENTES

REVIEWED BY

P. ZANDBERGEN

APPROVED BY

P. ZANDBERGEN

PROJECT DATE

2026/05/04

PROJECT #

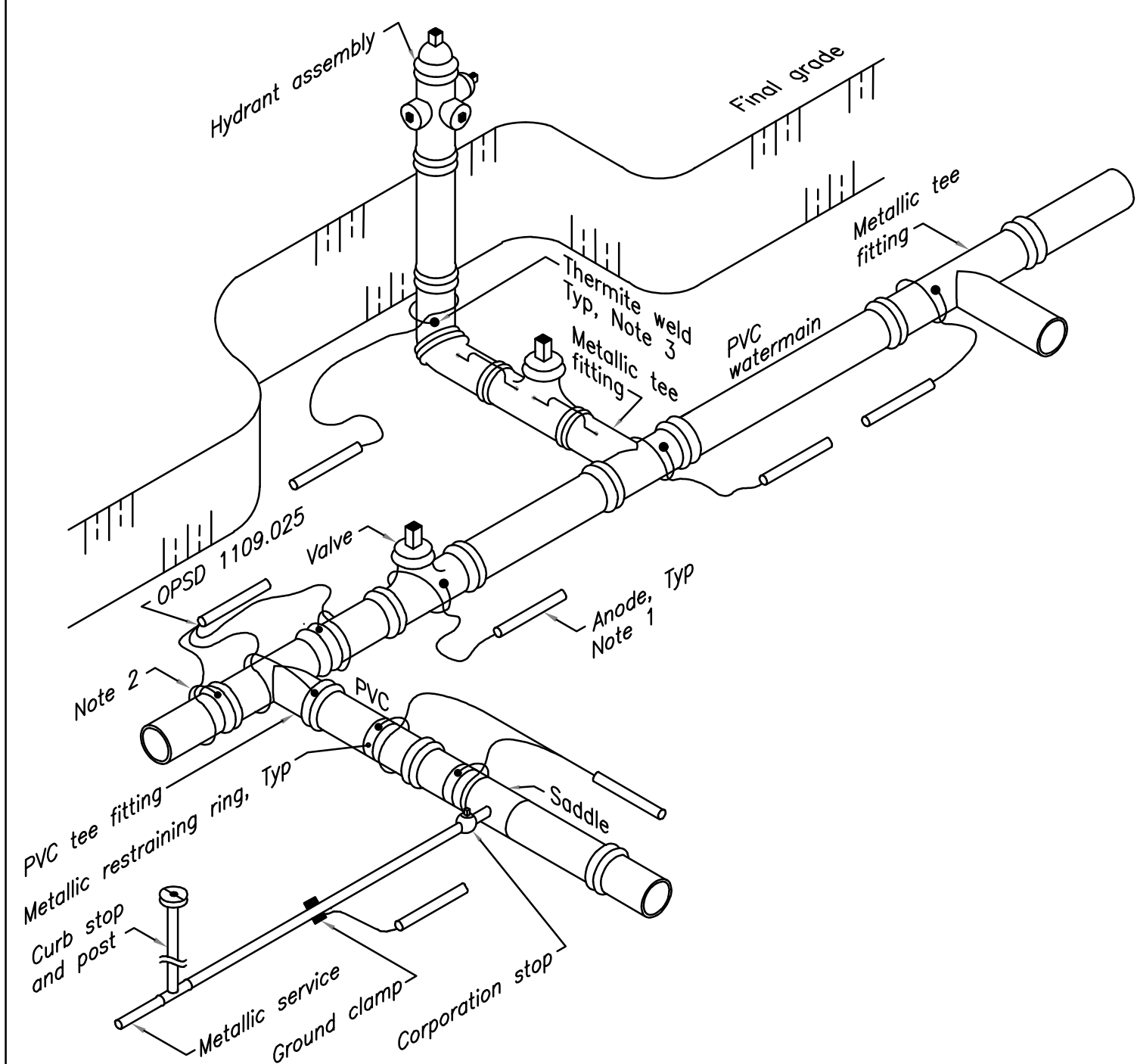
26-5020A

DRAWING #

TD 2

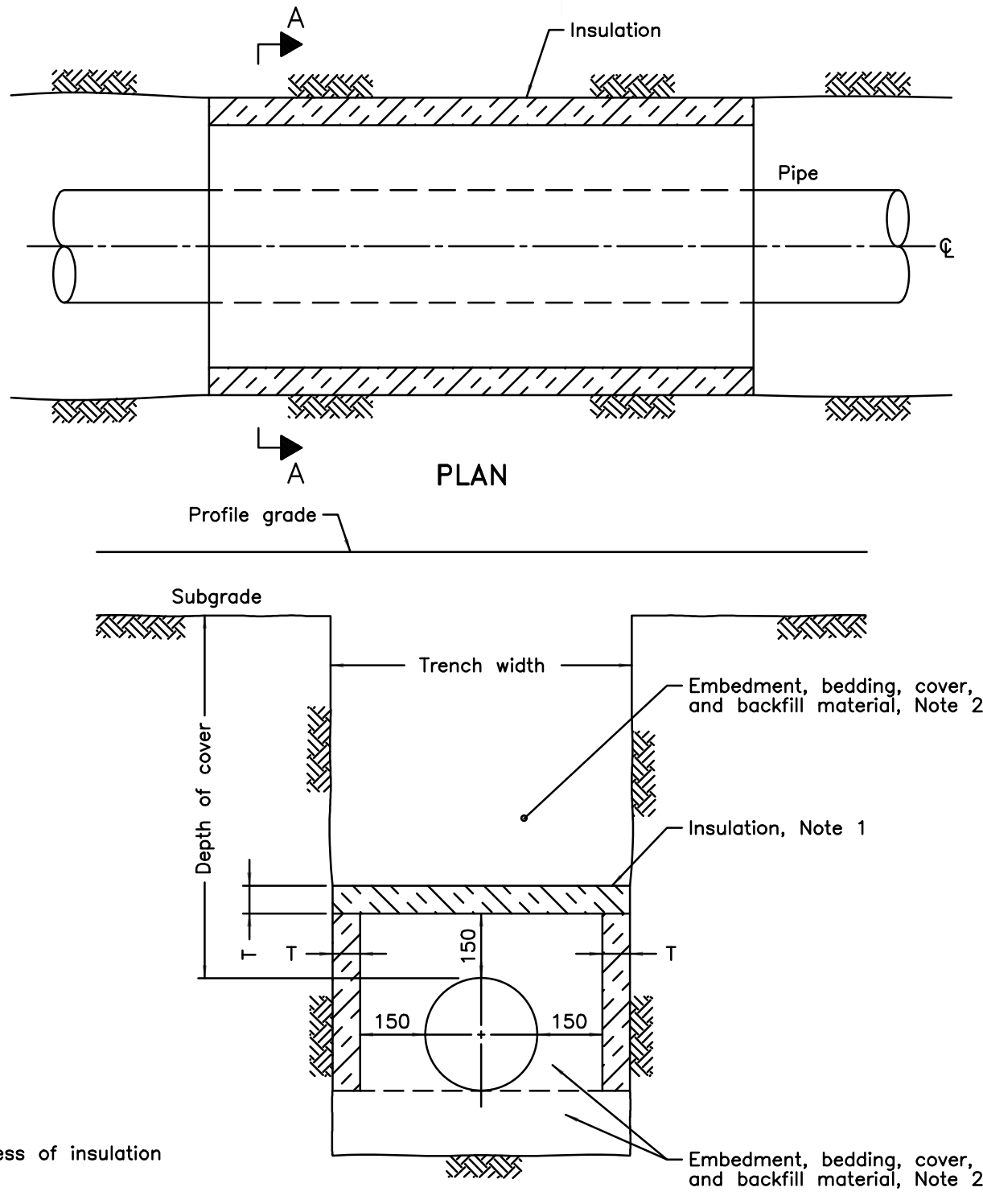
DRAWING SCALE (ISO A1)

HOR: N/A
VER: N/A



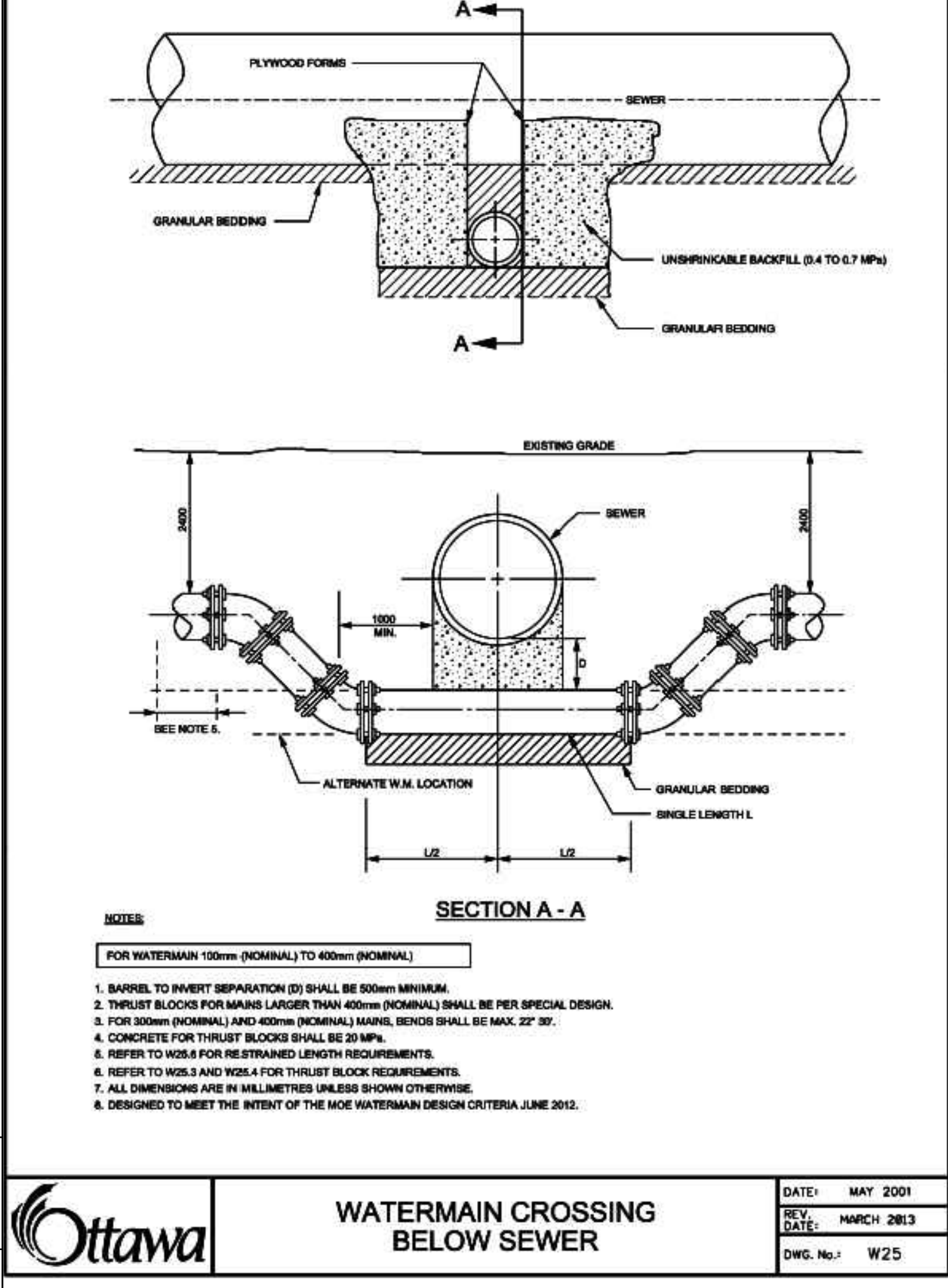
- NOTES:
- 1 Anode shall be placed at least 1.0m away from the water system pipe and appurtenances and as deep as the bottom of the pipe and appurtenances or as specified in Contract Documents.
 - 2 Anode connecting wire shall be loosely wrapped around pipes and fittings and knotted.
 - 3 Protective coating shall be applied to all thermite welds.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2020	Rev 3	
CATHODIC PROTECTION FOR PVC WATERMAIN SYSTEMS	-----	-----	-----
	OPSD 1109.011		

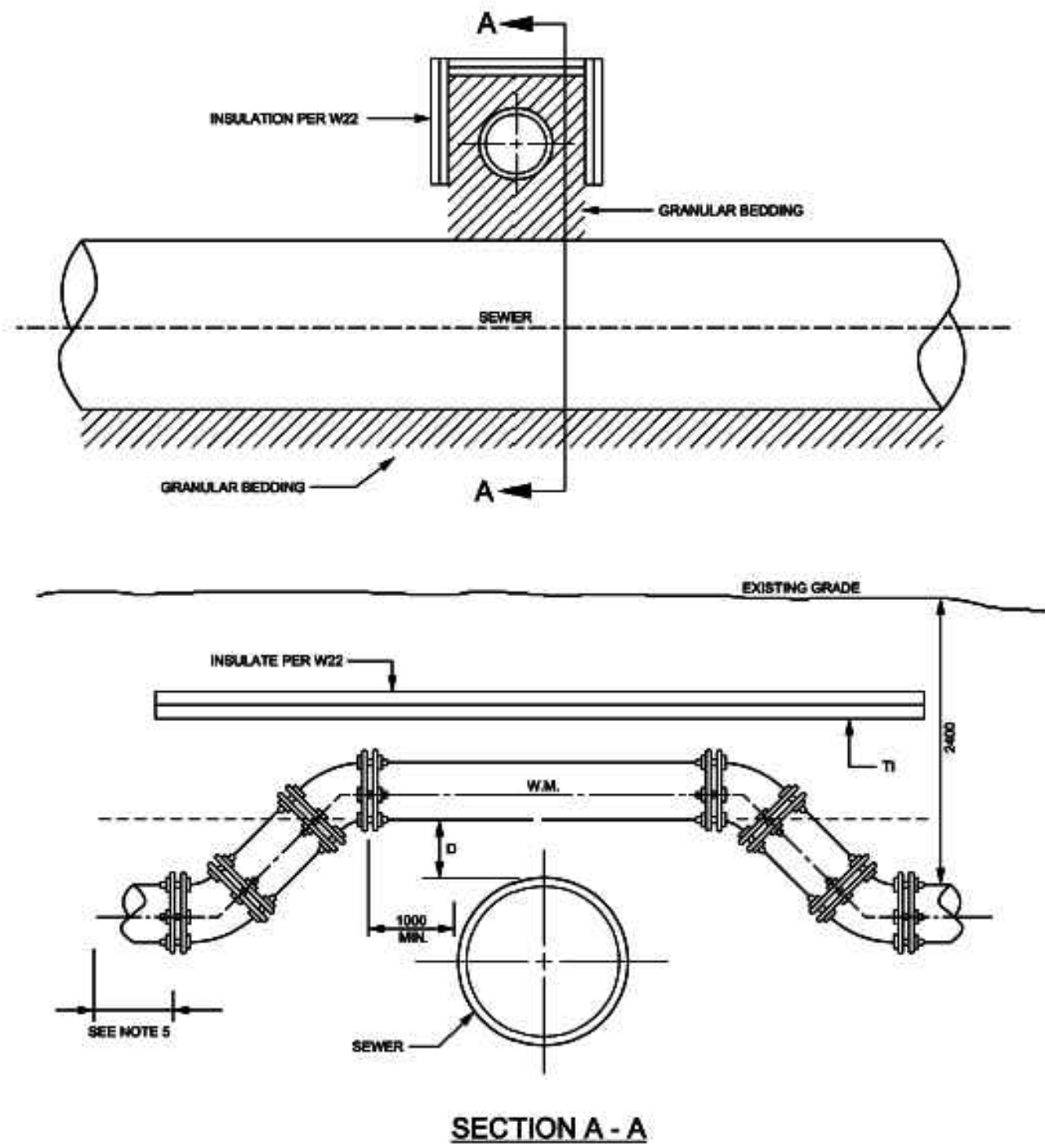


- NOTES:
- 1 The insulation material shall be extruded polystyrene according to OPSS 1605 with a minimum compressive strength of 275 kPa.
 - 2 Pipe embedment or bedding, cover, and backfill shall be according to:
 - a) Flexible OPSS 802.010, 802.013, 802.020, and 802.023.
 - b) Rigid - OPSS 802.030, 802.031, 802.032, 802.033, 802.050, 802.051, 802.052, and 802.053.
 - 3 A Minimum insulation thickness shall be 50mm.
 - 4 B Joints shall be staggered for multiple insulation sheets.
 - 5 C This OPSD is to be read in conjunction with OPSS 3090.100 and 3090.101.
 - 6 D All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2020	Rev 1	
INSULATION FOR SEWERS AND WATERMAINS IN SHALLOW TRENCHES	-----	-----	-----
	OPSD 1109.030		

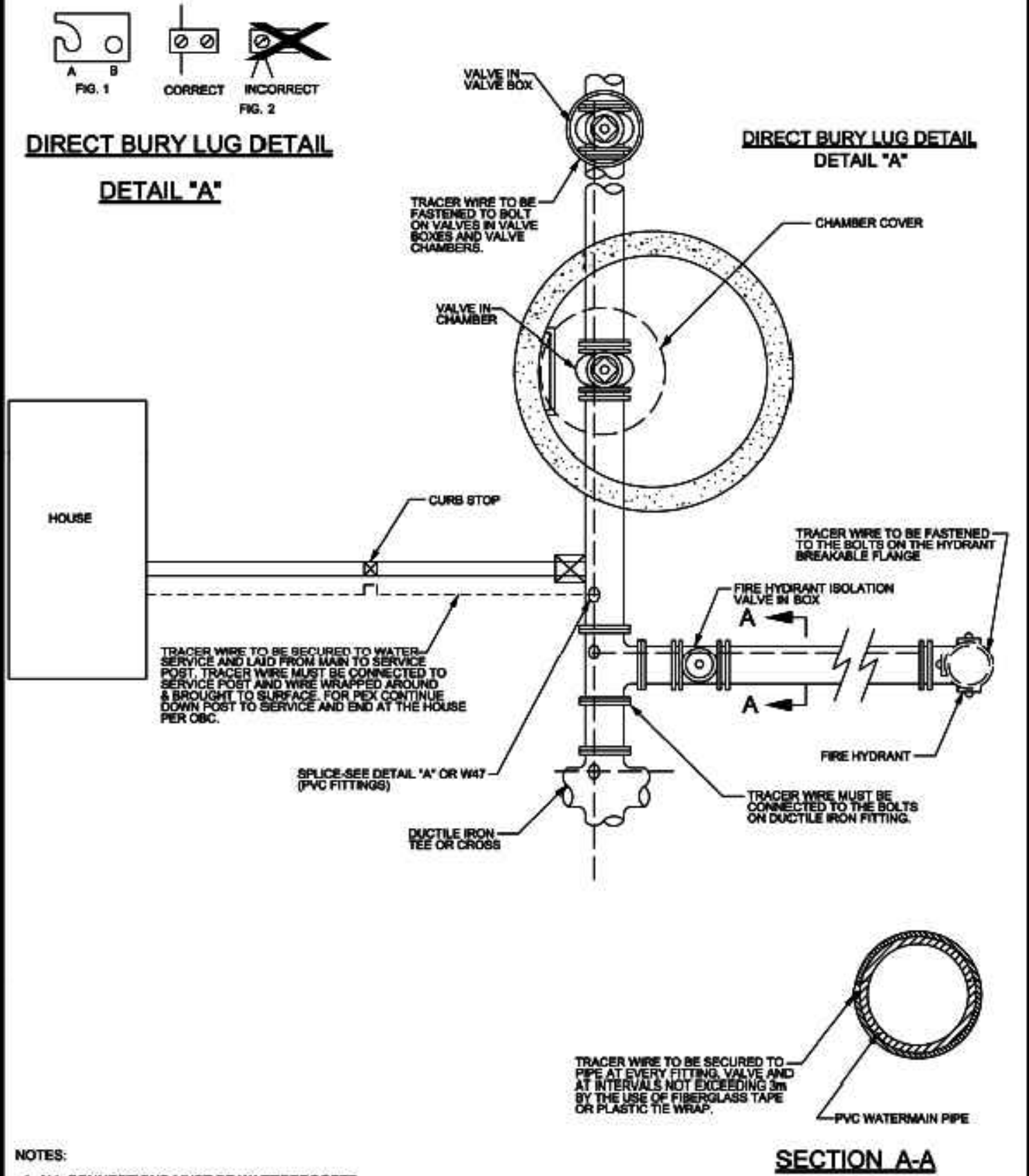


	WATERMAIN CROSSING BELOW SEWER	DATE: MAY 2001 REV. DATE: MARCH 2013 DWG. No.: W25
--	--------------------------------	--



- NOTES:
1. BARREL TO BARREL SEPARATION (D) SHALL BE 300mm MINIMUM.
 2. THRUST BLOCKS FOR MAINS LARGER THAN 400mm (NOMINAL) SHALL BE PER SPECIAL DESIGN.
 3. FOR 300mm (NOMINAL) AND 400mm (NOMINAL) MAINS, BENDS SHALL BE MAX. 22° 30'.
 4. CONCRETE FOR THRUST BLOCKS SHALL BE 20 MPa.
 5. REFER TO W25.6 FOR RESTRAINED LENGTH REQUIREMENTS.
 6. REFER TO W25.3 AND W25.4 FOR THRUST BLOCK REQUIREMENTS.
 7. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
 8. DESIGNED TO MEET THE INTENT OF THE MOE WATERMAIN DESIGN CRITERIA JUNE 2012.

	WATERMAIN CROSSING OVER SEWER	DATE: MAY 2001 REV. DATE: MARCH 2013 DWG. No.: W25.2
--	-------------------------------	--



- NOTES:
1. ALL CONNECTIONS MUST BE WATERPROOFED.
 2. SPLICING OF MAIN TRACER WIRE IS NOT ALLOWED UNLESS SPECIFIED OR APPROVED.
 3. TRACER WIRE CONTINUITY OF CURRENT MUST BE TESTED AND VERIFIED.
 4. FOR PVC TO DUCTILE IRON CONNECTIONS, THE TRACER MUST BE ATTACHED TO THE DUCTILE IRON PIPE BY CADWELD.
 5. FOR SPLICES WITH DIRECT BURY LUGS STRIP BOTH UNLUT MAIN AND CUT TAP WIRE TO WIDTH OF LUG (18mm). PLACE MAIN WIRE INTO SIDE A (FIG. 1) AND TAP WIRE INTO SIDE B. TORQUE EACH SCREW TO 36 LB-IN. REMOVE SEALANT COVER AND DISCARD. CLOSE HOUSING, ALIGNING WIRES UNTIL HOUSING LID IS FULLY LATCHED.

	TRACER WIRE INSTALLATION	DATE: MAY 2001 REV. DATE: MARCH 2014 DWG. No.: W36
--	--------------------------	--

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PICTON, ONTARIO
DRAWING TITLE
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DESIGNED BY

DRAWN BY
R. SILLS/B. CRUZ-FUENTES

REVIEWED BY
P. ZANDBERGEN

APPROVED BY
P. ZANDBERGEN

PROJECT DATE
2026/05/04 (YYYY/MM/DD)

PROJECT #
26-5020A

DRAWING #
TD 3

DRAWING SCALE (ISO A1)
HOR: N/A
VER: N/A