

BIG WHITE UTILITY
GAS DISTRIBUTION STANDARDS
2022

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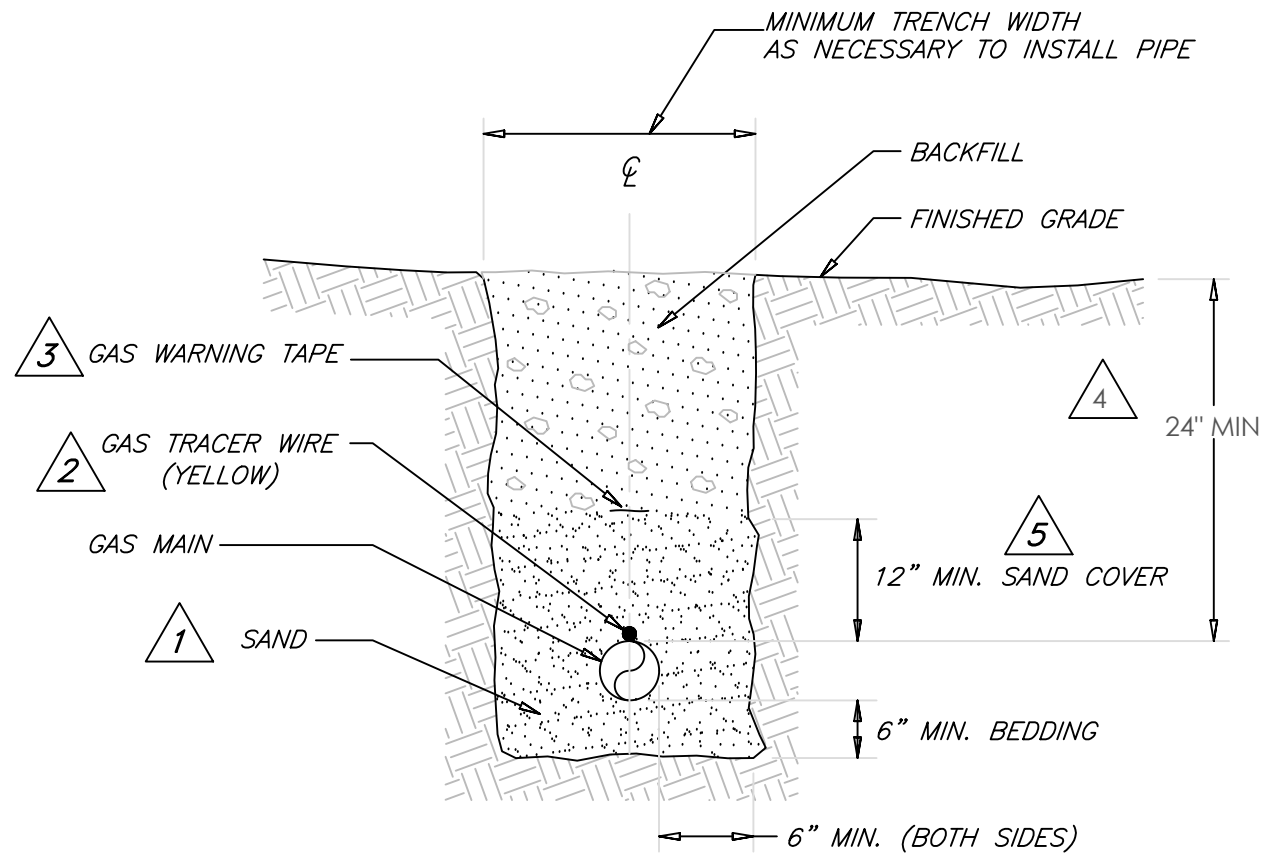
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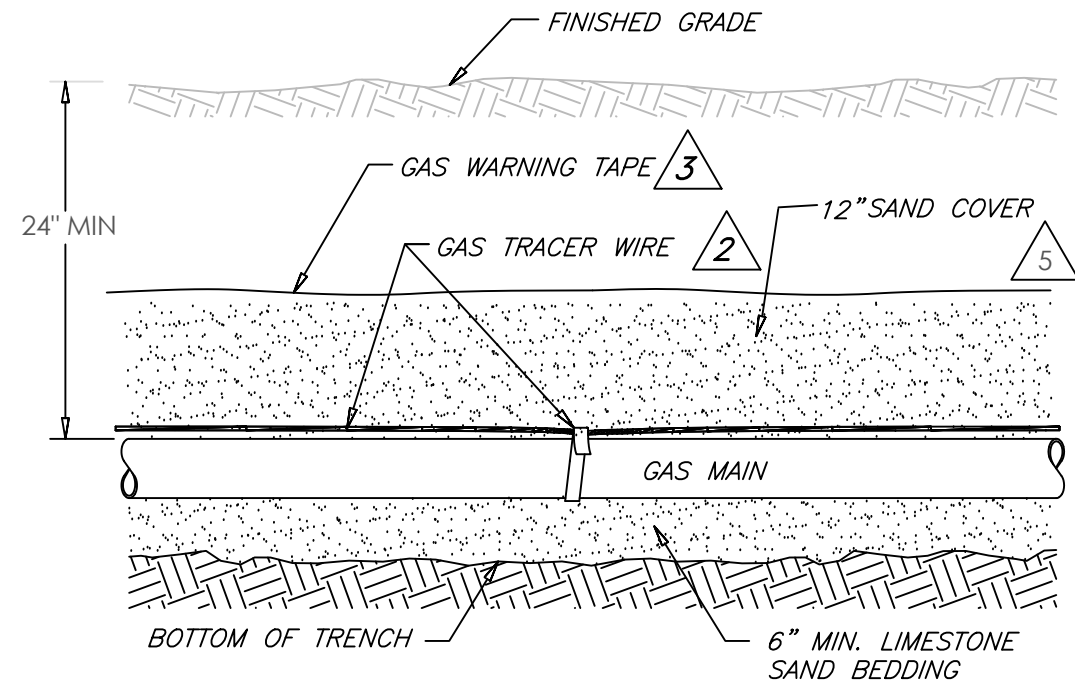
OWNER:	CEG615 KELOWNA B.C.
ENGINEER:	CANITAN ENGINEERING GROUP

PROJECT:	GAS DISTRIBUTION NETWORK		
TITLE:	BIG WHITE GAS STANDARDS COVER SHEET		
SCALE AT A3:	DATE:	DRAWN:	CHECKED:
NTS	05/05/22	JM	JP
PROJECT NO:	DRAWING NO:	REVISION:	
CEG615	BGS 001	A	

△	GENERAL NOTES
1	6" SAND BEDDING UNDERNEATH AND ON EACH SIDE OF THE GAS MAIN
2	YELLOW TRACER WIRE SHALL BE INSTALLED DIRECTLY ABOVE THE GAS MAIN AND TAPED EVERY 2 M WITH POLY TAPE
3	GAS WARNING TAPE SHALL BE INSTALLED 12" ABOVE THE GAS MAIN
4	24" MINIMUM DEPTH WHEN INSERTING GAS MAIN. TRACER WIRE TO BE INSERTED WITH GAS MAIN.
5	24" MINIMUM SAND BACKFILL REQUIRED



GAS MAIN TRENCH CROSS SECTION



GAS MAIN TRENCH PROFILE

1. NOTES

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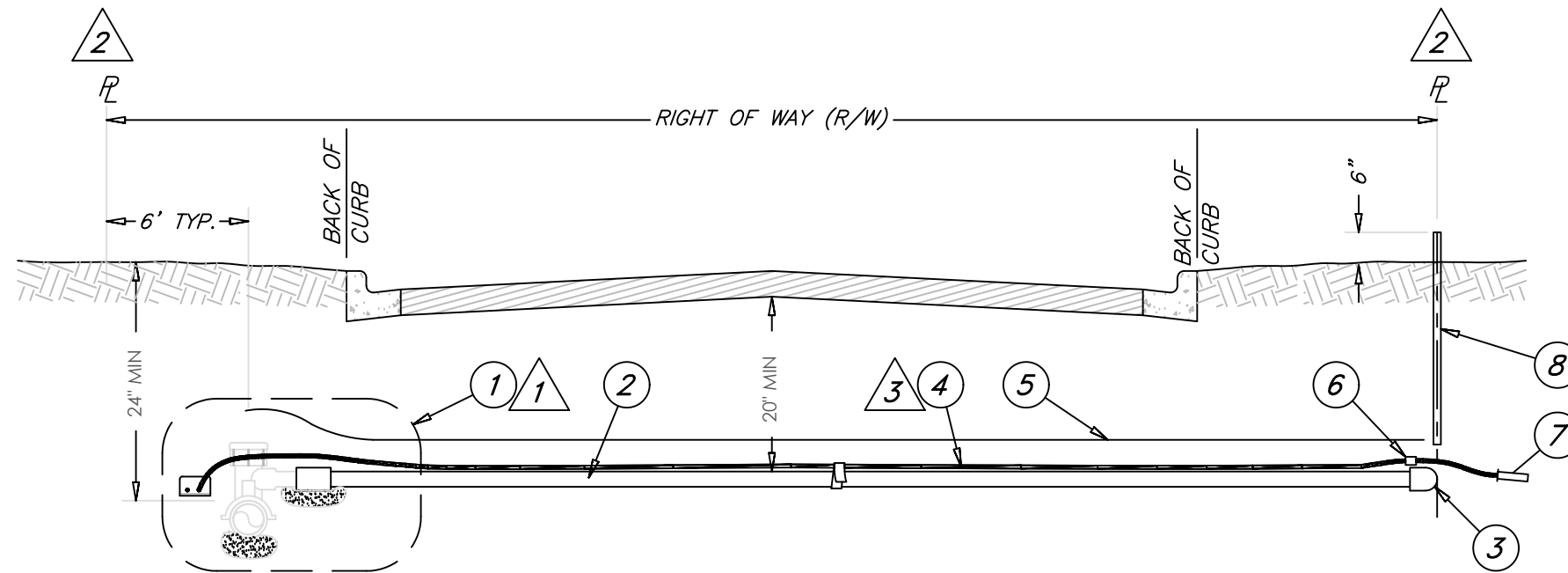
OWNER:	BIG WHITE UTILITIES KELOWNA B.C.
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ENGINEER:	CANITAN ENGINEERING GROUP
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PROJECT:	GAS DISTRIBUTION
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TITLE:	GAS MAIN TRENCH TYPICAL PROFILE
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SCALE AT A3: NTS	DATE: 05/05/22	DRAWN: SW	CHECKED: JP
PROJECT NO: CEG615	DRAWING NO: BGS 100	REVISION: A	



TYPICAL CROSS SECTION

PROPOSED BILL OF MATERIALS		
	QTY	DESCRIPTION
1	1	TAP TEE CONNECTION:
2	–	GAS LATERAL
3	1	CAP
4	–	#10 TRACER WIRE
5	–	GAS WARNING TAPE – SEE NOTE 3
6	1	DIRECT BURY SPLICE KIT
7	1	1/2 LB. ANODE (CONNECTED TO LOCATOR WIRE)
8	1	SCRAP PIPE, END-OF-LINE MARKER OR CABLE/PIPE MARKER

△	GENERAL NOTES
1	PRESSURE TEST PRIOR TO TAPPING THE MAIN. INSTALLATION SHALL NOT EXTEND BEYOND LIMITS
2	
3	YELLOW TRACER WIRE SHALL BE INSTALLED AND TAPED EVERY 2 M WITH POLY TAPE
4	WARNING TAPE SHALL BE INSTALLED 6" DIRECTLY ABOVE THE GAS LINE

Notes:

- PRESSURE TEST PRIOR TO TAPPING THE MAIN
- INSTALLATION SHALL NOT EXTEND BEYOND THE LIMITS
- YELLOW TRACER WIRE SHALL BE INSTALLED AND TAPED EVERY 20' WITH POLY TAPE
- WARNING TAPE SHALL BE INSTALLED 6" DIRECTLY ABOVE THE GAS LINE

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STATUS: ISSUE FOR INFORMATION			



OWNER:	BIG WHITE UTILITIES KELOWNA B.C.
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ENGINEER:	CANITAN ENGINEERING GROUP
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PROJECT:	GAS DISTRIBUTION NETWORK TYPICAL CROSS SECTION
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TITLE:	BIG WHITE GAS STANDARDS TYPICAL ROAD CROSSING
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SCALE AT A3:	DATE:	DRAWN:	CHECKED:
NTS	05/05/22 J.M		JP

PROJECT NO:	DRAWING NO:	REVISION:
CEG 615	BGS 120	A



The diagram illustrates the vertical arrangement of utilities in a trench. At the top, there is a layer of sand backfill (labeled 4) above a layer of gas warning tape (labeled 2) and water warning tape (labeled 3). Below this is a 6" minimum layer of sand backfill (labeled 4). The gas main is installed above the water main, with a 12" minimum separation between them. The water main is surrounded by sand bedding. The bottom of the trench is indicated. Dimensions on the right show a total depth of 24" for the top section and 7'-6" for the bottom section.

Labels and dimensions include:

- GAS WARNING TAPE
- WATER WARNING TAPE
- 12" MINIMUM SAND BACKFILL
- GAS TRACER WIRE (YELLOW)
- 6" MINIMUM
- GAS MAIN
- WATER MAIN
- 24"
- 7'-6"
- 12" MINIMUM SEPARATION
- SAND BEDDING
- BOTTOM OF TRENCH

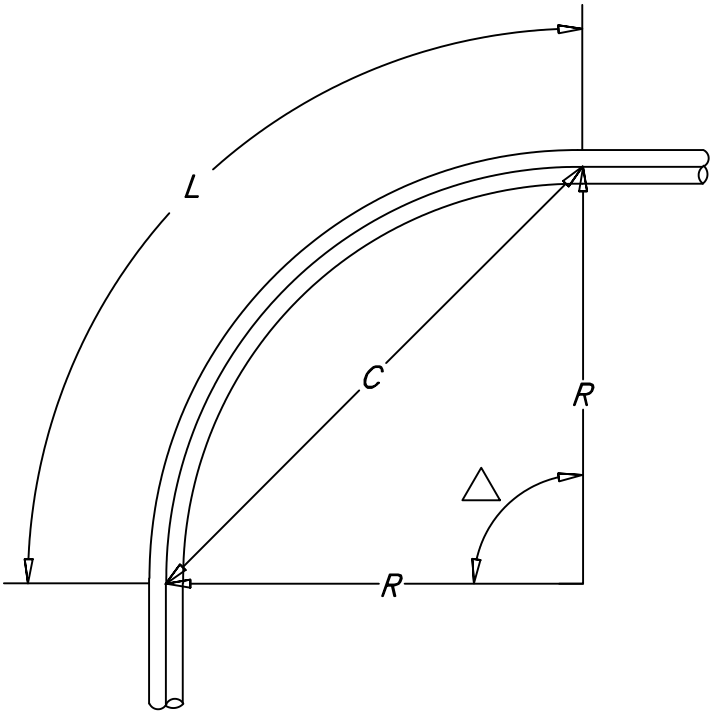
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PROJECT: GAS DISTRIBUTION NETWORK

TITLE: BIG WHITE GAS STANDARDS
GAS - WATER JOINT TRENCH

SCALE AT A3: NTS	DATE: 05/05/22 JM	DRAWN:	CHECKED: JP
PROJECT NO: CEG615	DRAWING NO: BGS 101	REVISION: A	



D = PIPE DIAMETER
R = MINIMUM RADIUS
L = MINIMUM CURVE LENGTH,
IF $\triangle = 90^\circ$
C = MINIMUM CHORD LENGTH,
IF $\triangle = 90^\circ$

WITHOUT FITTINGS

NOMINAL "D"	R=25D	L	C
3/4"	2'-6"	3'-6"	3'-6"
1"	3'	4'-6"	4'
1 1/4"	3'-6"	5'-6"	5'
2"	5'	8'	7'
3"	7'-6"	11'-6"	10'-6"
4"	9'-6"	15'	13'-6"
6"	14'	22'	19'-6"

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OWNER:	BIG WHITE UTILITIES KELOWNA B.C.
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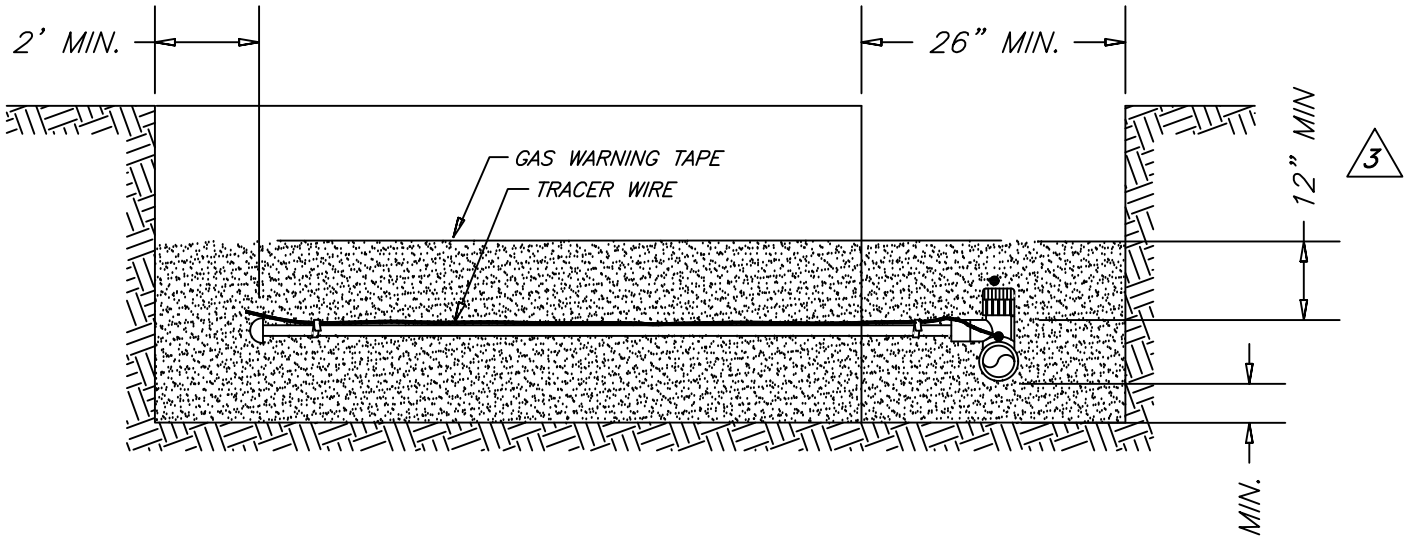
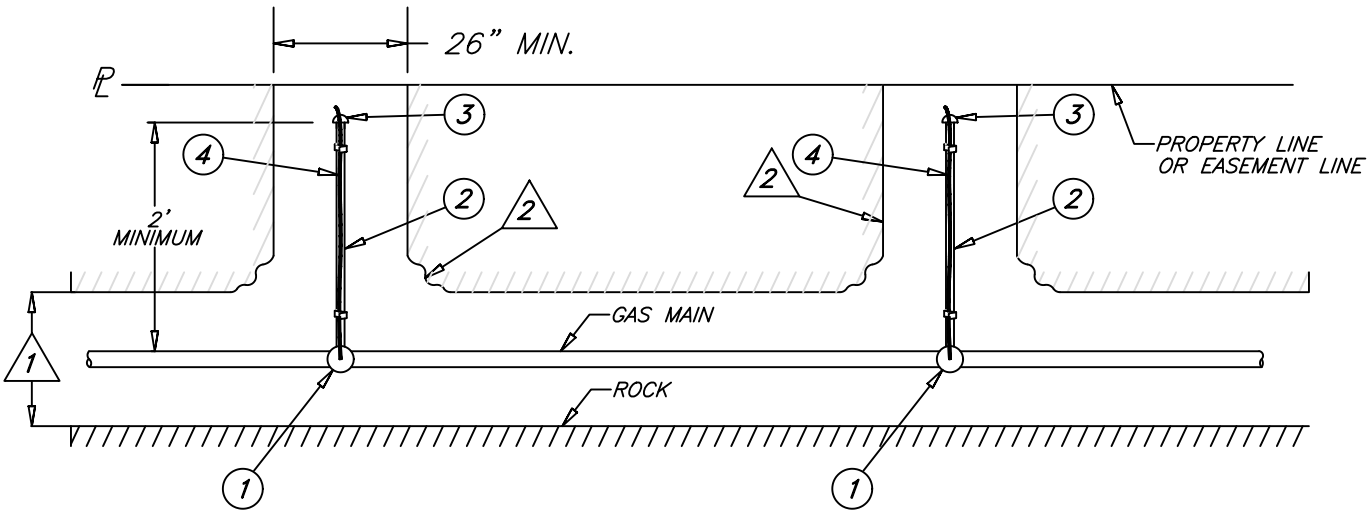
ENGINEER:	CANITAN ENGINEERING GROUP
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PROJECT:	GAS DISTRIBUTION NETWORK
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TITLE:	BIG WHITE GAS STANDARDS PE MINIMUM BEND RADIUS
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SCALE AT A3: NTS	DATE: 05/05/22	DRAWN: JM	CHECKED: JP
PROJECT NO: CEG 615	DRAWING NO: BGS 110	REVISION: A	

PROPOSED BILL OF MATERIALS		
QTY	DESCRIPTION	
1	GAS TAP TEE SIZE AS CALLED OUT ON THE INDIVIDUAL DESIGN DRAWINGS.	
2	OUTLET PIPING	
3	CAP	
4	#10 TRACER WIRE	



GENERAL NOTES	
1	MINIMUM DITCH WIDTH WHEN TRENCHING IN ROCK 26".
2	WHEN TRENCHING IN SOLID ROCK; A SIDE DITCH SHALL BE CUT PERPENDICULAR TO THE MAIN DITCH AT ALL LOCATIONS WHERE GAS SERVICES OR LATERALS ARE SHOWN OR WHERE DESIGNATED BY THE INSPECTOR OR SUPERVISOR.
3	12" MINIMUM SAND BACKFILL REQUIRED UNLESS BACKFILLING WITH GRAVEL. IF GRAVEL BACKFILL IS USED, TYPICALLY UNDER PAVEMENT, THICKNESS OF SAND BEDDING MAY BE REDUCED TO 6" ABOVE TOP OF GAS MAIN.

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STATUS:	ISSUE FOR INFORMATION		

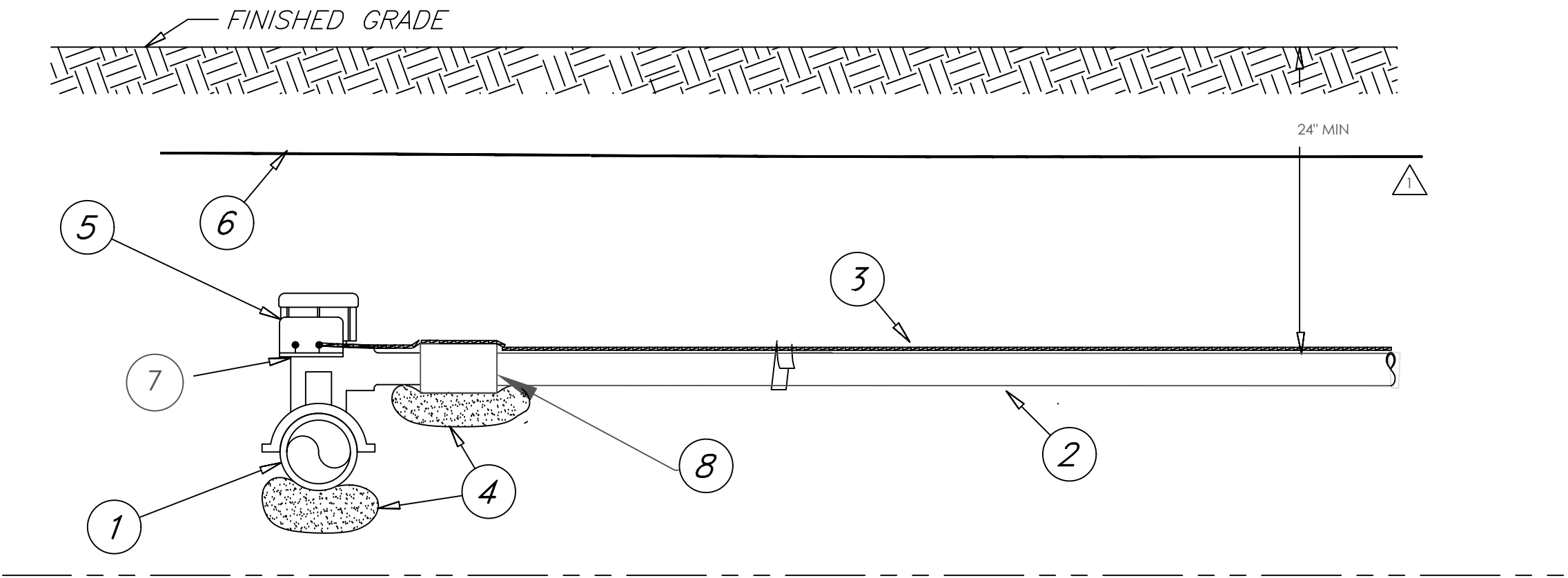
BIG WHITE

Gas Utility LTD.

OWNER:	BIG WHITE UTILITIES KELOWNA B.C.
ENGINEER:	CANITAN ENGINEERING GROUP

PROJECT:	GAS DISTRIBUTION NETWORK
TITLE:	BIG WHITE GAS STANDARDS GAS LATERAL / STUB

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
NTS	05/05/22 JM	JP	JP
PROJECT NO:	DRAWING NO:	REVISION:	
CEG615	BGS 121	A	



2" PE DIRECT BURY

BILL OF MATERIALS		
○	QTY	DESCRIPTION
1		GAS MAIN 2" - 8"
2		2" SERVICE LINE PIPE
3	1	#10 TRACER WIRE
4	2	SANDBAG WITH DRAW STRING
5	1	DIRECT BUTY 3-WAY SPICE LUG
6	1	WARNING TAPE
7	1	MECHANICAL TAPPING TEE 2" X 2" X 1.5" PUNCH
8	1	PE COUPLING 2" X 2" OR 2" X 1-1/2"

△	GENERAL NOTES
1	24" MINIMUM COVER

Notes:

- GENERAL NOTES
1. AIR PRESSURE TEST PRIOR TO TAPPING
 2. YELLOW TRACER SHALL BE PLACED DIRECTLY ABOVE THE GAS LINE AND TAPED EVERY 2 M WITH POLY TAPE
 3. WARNING TAPE SHALL BE INSTALLED 6" DIRECTLY ABOVE THE GAS LINE.
 4. USE A REDUCING COUPLING TO JOIN THE TAP TEE TO THE SERVICE LINE.

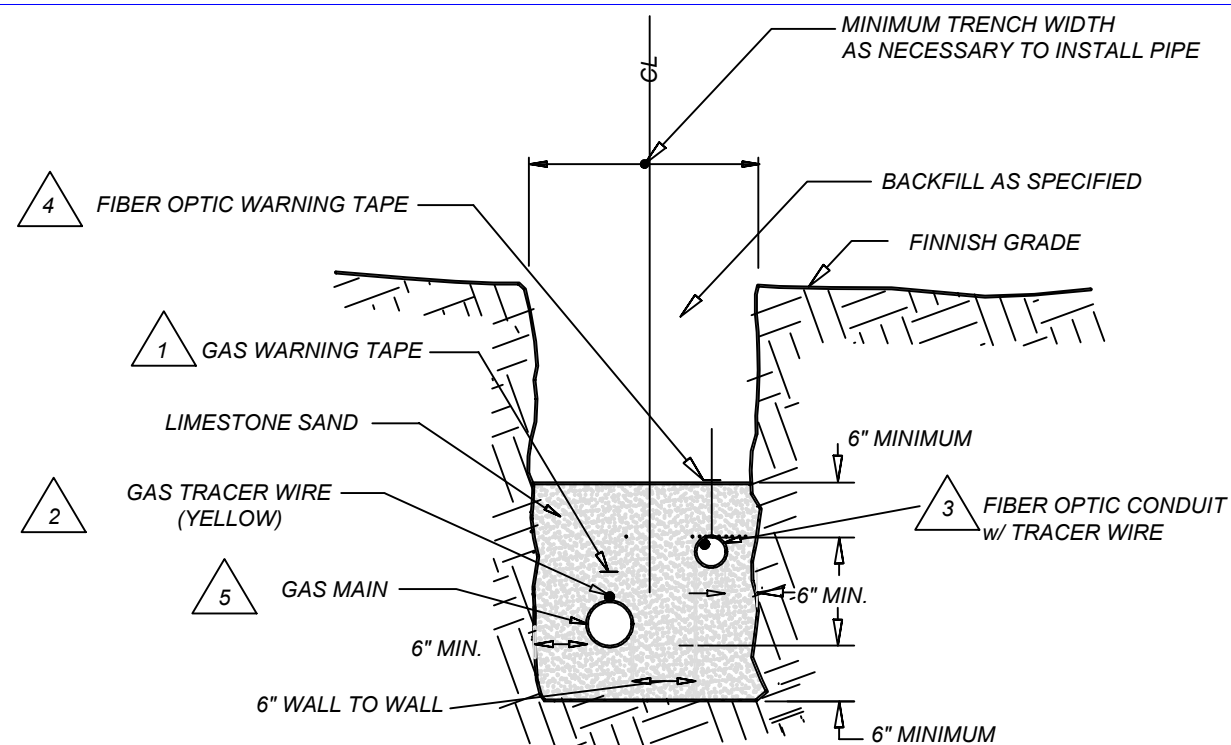
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STATUS:	ISSUE FOR INFORMATION		

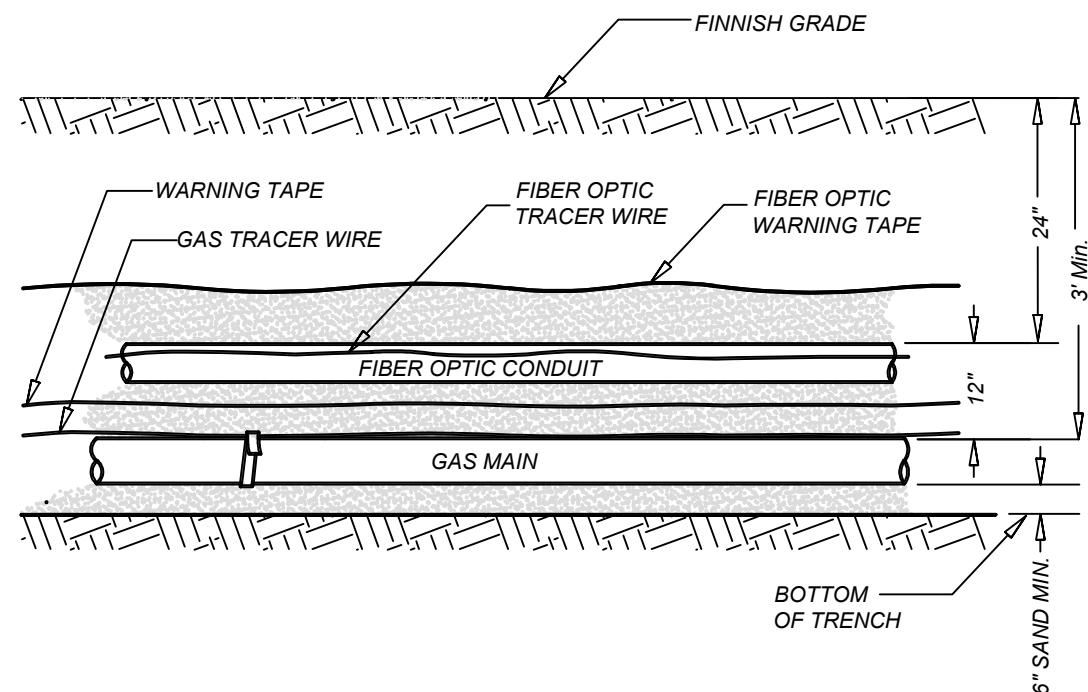


OWNER:	BIG WHITE UTILITIES KELOWNA B.C.
ENGINEER:	CANITAN ENGINEERING GROUP

PROJECT:	GAS DISTRIBUTION NETWORK		
TITLE:	BIG WHITE GAS STANDARDS 2" PE DIRECT BURY		
SCALE AT A3:	DATE:	DRAWN:	CHECKED:
NTS	05/05/22	JM	JP
PROJECT NO:	DRAWING NO:	REVISION:	
CEG615	BGS 122	A	



JOINT TRENCH CROSS SECTION



JOINT TRENCH PROFILE VIEW

GENERAL NOTES	
1	GAS WARNING TAPE SHALL BE PLACED 6" ABOVE TRACER WIRE.
2	#10 YELLOW TRACER WIRE (STK # 211571) SHALL BE INSTALLED DIRECTLY ABOVE THE GAS MAIN AND TAPED EVERY 20' WITH POLY TAPE (STK # 111208)
3	FIBER OPTIC TRACER WIRE SHALL BE INSTALLED IN THE CONDUIT.
4	FIBER OPTIC WARNING TAPE SHALL BE DIRECTLY OVER AND 6" ABOVE THE CONDUIT.
5	GAS MAIN TO BE PLACED ON CURBSIDE OF TRENCH.

Notes:

- GENERAL NOTES
1. AIR PRESSURE TEST PRIOR TO TAPPING
 2. YELLOW TRACER SHALL BE PLACED DIRECTLY ABOVE THE GAS LINE AND TAPED EVERY 2 M WITH POLY TAPE
 3. WARNING TAPE SHALL BE INSTALLED 6" DIRECTLY ABOVE THE GAS LINE.
 4. USE A REDUCING COUPLING TO JOIN THE TAP TEE TO THE SERVICE LINE.

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REV:	DESCRIPTION:	BY:	DATE:
STATUS:	ISSUE FOR INFORMATION		



OWNER:	BIG WHITE UTILITIES KELOWNA B.C.
ENGINEER:	CANITAN ENGINEERING GROUP

PROJECT:	GAS DISTRIBUTION NETWORK		
TITLE:	TYP. TRENCH CROSS SECTION GAS & FIBRE OPTIC		
SCALE AT A3:	DATE:	DRAWN:	CHECKED:
NTS	05/05/22	KA	JP
PROJECT NO:	DRAWING NO:	REVISION:	
CEG615	BGS 125	A	