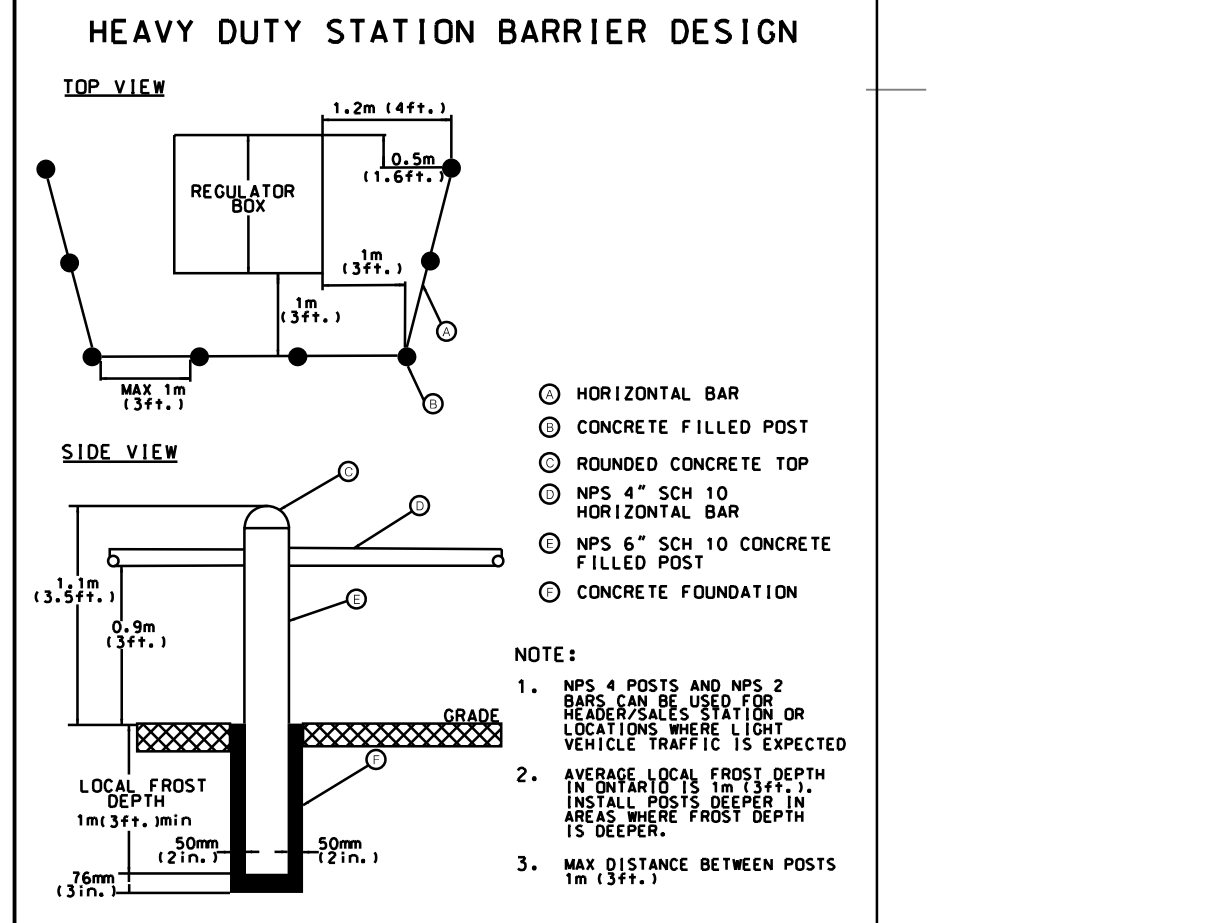


NOTE:
INSTALL HEAVY BOLLARDS AS REQUIRED BY C&M MANUAL SECTION 34.4.4.3. NETWORK 6882 IS CURRENTLY HP AND WILL BE ELEVATED TO XHP. ALL NEW INSTALLATIONS SHOULD CONFORM TO XHP REQUIREMENTS.

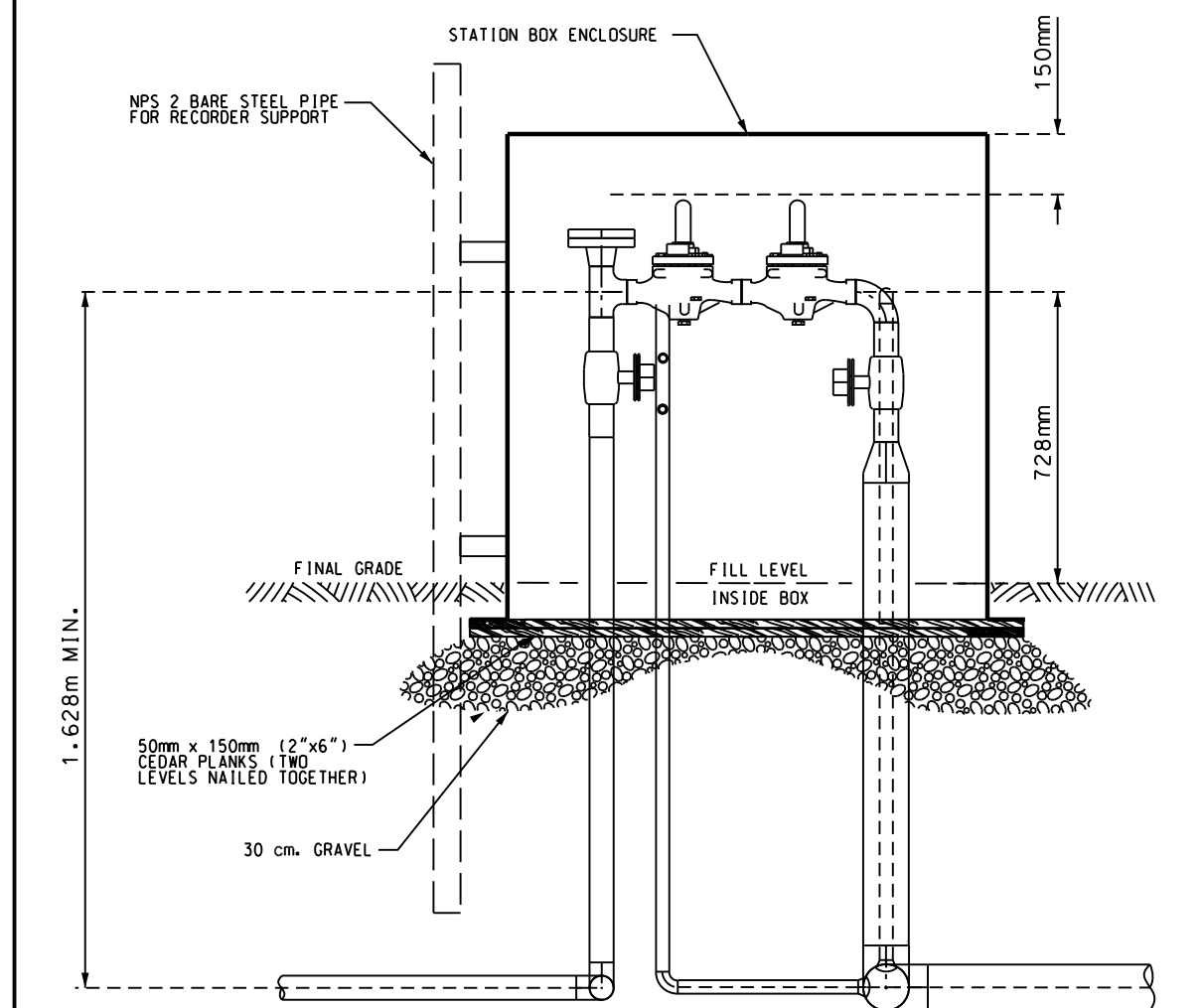


NOTES #1: GAZIFÈRE

- ALL ASPHALT ROAD, DRIVEWAY & TREE CROSSINGS TO BE HORIZONTAL DIRECTIONAL DRILLED IF POSSIBLE.
- ANY AUGERED, FLOWED, BORED OR DRILLED PIPE MUST USE 14 GAUGE TRACER WIRE AS PER SECTION 11.2.6 IN THE C&M MANUAL.
- ALL PROPOSED GAS MAIN AND SERVICES SHALL HAVE A MINIMUM COVER OF 900mm IF MAIN IS LOCATED WITHIN THE EXISTING TRAVELLED ROADWAY.
- ALL PROPOSED GAS MAINS FOR NEW SUBDIVISIONS OFFSETS ARE DETERMINED AS PER VARIOUS MUNICIPALITIES SPECIFICATION DOCUMENT SPECIFYING DISTANCES FROM ASPHALT EDGE OR EDGE OF CURB OR PROPERTY LINE AT A DEPTH OF 700mm FROM GRADE (GRADE TO BE OBTAIN BY THE PIPELINE CONTRACTOR) UNLESS OTHERWISE NOTED.
- ALL APPLICABLE PURGING PROCEDURES SHALL BE FOLLOWED, AS OUTLINED IN THE C&M MANUAL.
- PIPELINE MARKERS TO BE PLACED ON ALL PURGE CAPS AND WELD CAPS.
- PIPELINE MARKERS TO BE INSTALLED AS THE P.D.R. AND THE C&M MANUAL.
- ANODES, TEST POINTS AND PIPELINE MARKERS TO BE INSTALLED WHERE SHOWN ON THE PLAN UNLESS APPROVED BY PLANNING AND/OR CORROSION.
- ALL PROPOSED GAS MAIN AND SERVICES SHALL HAVE A MINIMUM COVER OF 1200mm WHEN SUBJECT TO MINISTRY OF TRANSPORT OF QUEBEC HIGHWAY CROSSING.

NOTES #1: GAZIFÈRE

- LA CONDUITE DE GAZ NATUREL DÉMONTÉE SUR CE PLAN SERA INSTALLÉE À L'ENDROIT INDICÉ, À MOINSQU'IL EN SOIT AUTREMENT INDICÉ. CE PLAN RESPECTE LES NORMES DE LA MUNICIPALITÉ À L'ÉGARD DE LA DISTANCE DES BORDURES DE BÉTON, DU PAVÉ ET DES LIGNES DE PROPRIÉTÉS.
- DANS LA NOUVELLE CONSTRUCTION LA CONDUITE DE GAZ PROPOSÉE SERA ENFOUÏE À UNE PROFONDEUR MINIMALE DE 700mm SOUS LA PREMIÈRE SURFACE DE PAVÉ ET AUSSI LORSQU'IL S'AGIT D'UN RÉSEAU À DOUBLE CONDUITE, DANS LES AUTRE CAS, 900mm.
- DANS UNE RUE EXISTANTE LA CONDUITE DE GAZ PROPOSÉE SERA ENFOUÏE À UNE PROFONDEUR MINIMALE DE 900mm LA SURFACE EXISTANTE.
- L'ENTREPRENEUR GÉNÉRAL CHARGÉ DE L'INSTALLATION DE CETTE CONDUITE SERA TENUE RESPONSABLE DE GARANTIR CETTE PROFONDEUR À MOINS QU'IL EN SOIT AUTREMENT AUTORISÉ PAR LA MUNICIPALITÉ OU MINISTÈRE DU TRANSPORT DU QUÉBEC.
- LES INSTALLATIONS DES AUTRES SERVICES PUBLICS NE SONT PAS INDIQUÉES SUR CE PLAN, AVANT DE CRUSER, LE CONTRACTEUR GÉNÉRAL DE GAZIFÈRE DEURA OBTENIR LES LOCALISATIONS DE CES SERVICES.
- TOUTES LES TRAVERSÉES DE ROUTE BITUMÉE, DE VOIE D'ACCÈS POUR AUTO ET D'ARBRE DOIVENT ÊTRE RÉALISÉES PAR FORAGE DIRIGÉ HORIZONTAL (DANS LA MESURE DU POSSIBLE).
- TOUTE CONDUITE ENFOUÏE DANS UNE TRANCHEE LEVÉE AU MOYEN D'UNE TARIÈRE, D'UNE CHARRUE OU PAR FORAGE DOIT ÊTRE MUNIE DE CABLES TRACERS DE CALIBRE 14 CONFORMÉMENT AU PARAGRAPHE 11.2.6 DU MANUEL DE CONSTRUCTION ET DES MATÉRIELUX (C & M).
- TOUTE TRAVERSÉE DE RUE OU CONDUITE PRINCIPALE QUI EST INSTALLÉ À L'INTÉRIEUR SE L'INFRA D'UNE RUE SERA ENFOUÏE À UNE PROFONDEUR MINIMALE DE 900mm SOUS LA SURFACE D'ASPHALTE.
- TOUTE TRAVERSÉE DE RUE OU CONDUITE PRINCIPALE ET SERVICE QUI EST INSTALLÉ À L'INTÉRIEUR DES ROUTES DU MINISTÈRE DU TRANSPORT DU QUÉBEC SERA ENFOUÏE À UNE PROFONDEUR MINIMALE DE 1200mm SOUS LA SURFACE D'ASPHALTE.



NOTES: FOR UNIMPROVED INSTALLATIONS, IT IS THE CONSTRUCTORS RESPONSIBILITY TO OBTAIN FINAL GRADE FROM DEVELOPER.
CONTACT M&R DEPARTMENT A MINIMUM OF 2 WORKING DAYS IN ADVANCE OF INSTALLING THE STATION.

TIE-IN FITTING TEST NOTE:
ALL TIE-IN FITTINGS FOR XHP SYSTEMS MUST BE TESTED SEPARATELY AT 110% MOP OF NOT LESS THAN 1-HOUR

FITTING NOTE #5:
Tee Three Way TDW SHORTSTOPP 3000 Spherical Welded Class 300 STD W.T. Outlet ASME B31.8 C/W Shortplug & Flange CA-2366-0000-00

FITTING No. _____

TEST @ _____ kPa W/ _____ NITROGEN

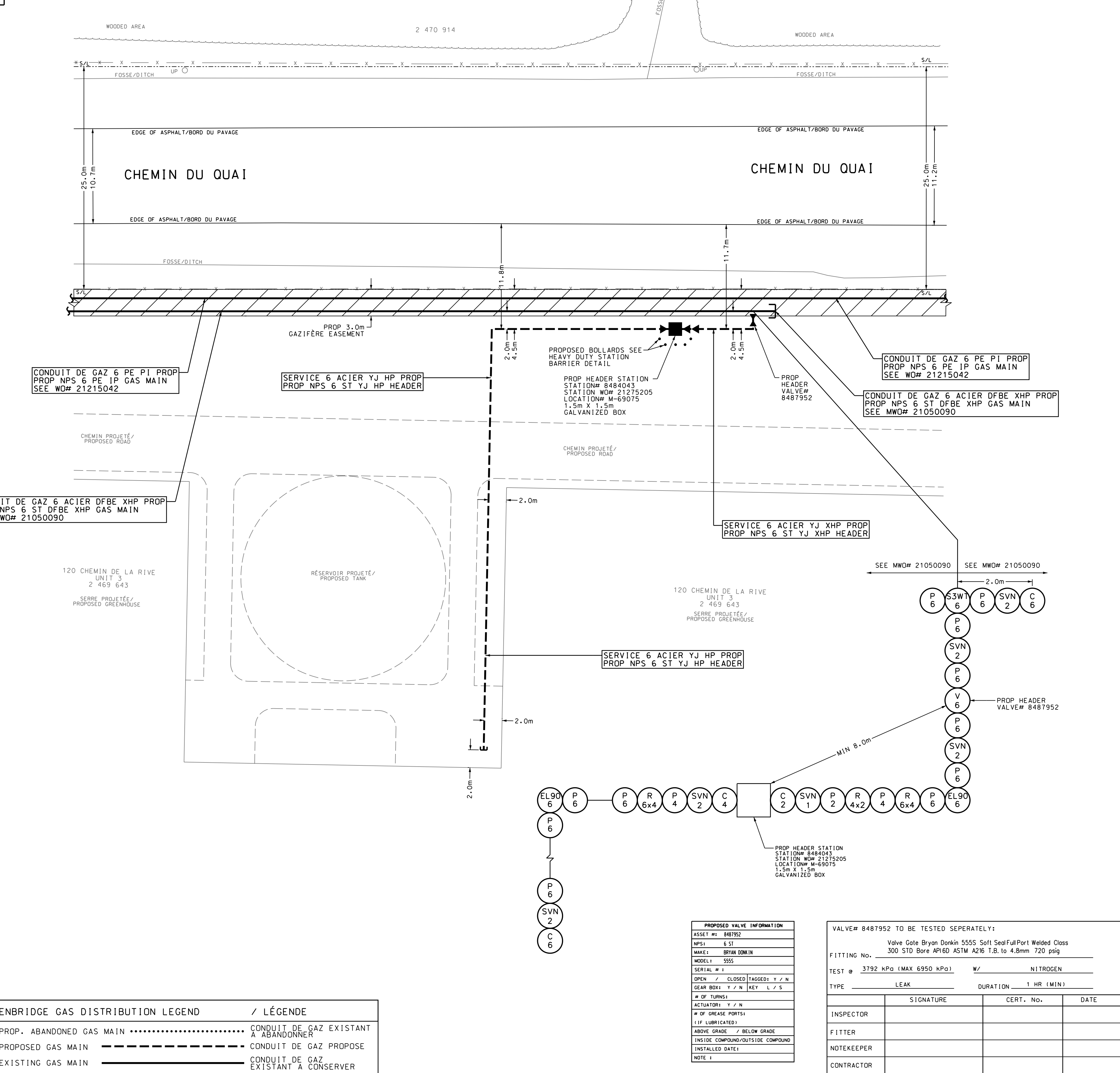
TYPE _____ LEAK DURATION _____ 1HR (MIN)

INSPECTOR	SIGNATURE	CERT. No.	DATE

FITTER _____

NOTEKEEPER _____

CONTRACTOR _____



ENBRIDGE GAS DISTRIBUTION LEGEND / LÉGENDE

PROP. ABANDONED GAS MAIN	CONDUIT DE GAZ EXISTANT À ABANDONNER
PROPOSED GAS MAIN	CONDUIT DE GAZ PROPOSE
EXISTING GAS MAIN	CONDUIT DE GAZ EXISTANT À CONSERVER

PROPOSED ENBRIDGE BILL OF MATERIALS

MARK	SIZE	STOCK No	REQD	DESCRIPTION	Crew
P	2	0924500	AS RECD	Pipe SteelGR. 359 STD W.T. CSA Z245.1CAT.1Coating to CSA Z245.20 Y.J.	
P	4	0924700	AS RECD	Pipe SteelGR. 359 W.T. 4.8mm CSA Z245.1CAT.1Coating to CSA Z245.20 Y.J.	
P	6	0926770	77m	Pipe SteelGR. 359 W.T. 4.8mm CSA Z245.1CAT.1Coating to CSA Z245.20 Y.J.	
C	2	1102143	1	Cap. Welded WPB STD W.T. ASME B16.9 ASTM A234	
C	4	1102472	1	Cap. Welded WPB STD W.T. ASME B16.9 ASTM A234 T.B. to 4.8mm	
C	6	1102507	1	Cap. Welded WPB STD W.T. ASME B16.9 ASTM A234 T.B. to 4.8mm	
EL90	6	1103301	2	Elbow 90 L.R. Welded WPB STD W.T. ASME B16.9 ASTM A234 T.B. to 4.8mm	
SVN	2	1122641	4	Nipple Save-A-Valve Mueller H-17491 Forged SteelBody and Cap. Welded ASTM A105 1440 psig	
R	4x2	1127293	1	Reducer Concentric Welded WPB STD W.T. ASME B16.9 ASTM A234 T.B. to 4.8 x 3.9mm	
R	6x4	1127588	2	Reducer Concentric Welded WPB STD W.T. ASME B16.9 ASTM A234 T.B. to 4.8mm	
S3WT	6	1176601	1	Tee Three Way TDW SHORTSTOPP 3000 Spherical Welded Class 300 STD W.T. Outlet ASME B31.8 C/W Shortplug & Flange CA-2366-0000-00	
SVN	1	1186932	1	Nipple Save-A-Valve Mueller H-17491 Forged SteelBody and Cap. Welded ASTM A105 1440 psig	
ECS	2	1806695	1	Coupling PE Rahn Medium Density Socket Fused PE2708 CSA B137.4	
VB		1815107	1	Valve Box Standard Plastic HANDLEY For SteelValves on Boulevard	
PM		2140100	AS RECD	Pipeline Marker Temporary Rhino 48 in Yellow Hybrid 1-RollIncludes Custom Decals *RHP1-48Y	
PM		2140200	AS RECD	Pipeline Marker Temporary Rhino 66 in Yellow Hybrid 1-RollIncludes Custom Decals *RHP1-66Y	
PM PP		2186000	AS RECD	Permanent Pipeline Marker Post	
PM PS		2186500	AS RECD	Permanent Pipeline Marker Sign	
V	6	2359731	1	Valve Gate Bryan Donkin 5555 Soft SealFullPort Welded Class 300 STD Bore API6D ASTM A216 T.B. to 4.8mm 720 psig	

I DECLARE THE INSTALLATION AND TESTING OF THE PIPELINE WAS CARRIED OUT IN ACCORDANCE WITH ONTARIO REGULATIONS (O.REG 210/01 s. 16 (4)) AND CONFORMS TO THE ORIGINAL DESIGN STANDARDS AND APPROVED REVISIONS AND MEETS COMPANY STANDARD

NAME/DATE: (1) _____ (2) _____
SIGNATURE: (1) _____ (2) _____
GPI CERTIFICATE NUMBER: (1) _____ (2) _____

NOTE: THIS MUST BE FILLED IN BY PERSON(S) WITH A VALID GPI CERTIFICATE.

METHOD OF CONSTRUCTION: OPEN CUT

TEST INFORMATION:

CLASS & TEST PRESSURE (kPa): IP 700	TEST MEDIUM: AIR / NITROGEN	TEST DURATION: PER CONSTRUCTION & MAINTENANCE MANUAL TABLE 23.1 & 23.2
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TEST LOCATION: ABOVE GROUND BELOW GROUND

TESTED @ _____ kPa DURATION: _____ h / min

WITH: AIR / NITROGEN / WATER TEST TYPE: SPRING GAUGE / TEST CHART / DRAGNET / OTHER

INSPECTOR: _____ CERT No: _____ DATE: _____
FITTER/WELDER: _____ EGD No: _____ DATE: _____
NOTEKEEPER: _____ CERT No: _____ DATE: _____
CONTRACTOR: _____ CREW I.D.: _____ DATE: _____

INSPECTION DETAILS:

START DATE: _____ COMPLETION DATE: _____ ENERGIZED DATE: _____
CONSTRUCTED BY: _____ ENERGIZED BY: _____ STAKED BY: _____

TEST INFORMATION:

CLASS & TEST PRESSURE (kPa): HP 1700	TEST MEDIUM: NITROGEN	TEST DURATION: PER CONSTRUCTION & MAINTENANCE MANUAL TABLE 23.1 & 23.2
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TEST LOCATION: ABOVE GROUND BELOW GROUND

TESTED @ _____ kPa DURATION: _____ h / min

WITH: AIR / NITROGEN / WATER TEST TYPE: SPRING GAUGE / TEST CHART / DRAGNET / OTHER

INSPECTOR: _____ CERT No: _____ DATE: _____
FITTER/WELDER: _____ EGD No: _____ DATE: _____
NOTEKEEPER: _____ CERT No: _____ DATE: _____
CONTRACTOR: _____ CREW I.D.: _____ DATE: _____

INSPECTION DETAILS:

START DATE: _____ COMPLETION DATE: _____ ENERGIZED DATE: _____
CONSTRUCTED BY: _____ ENERGIZED BY: _____ STAKED BY: _____

No	FIELD CHANGE	APPROVED BY	DATE OF FIELD CHANGE

STAMP AREA:

No	REVISION FOR COMPLETE PROJECT	COMPLETED BY	DATE

CONSULTANT: GROUPE HANDFIELD ARPENTREURS - GÉOMÈTRES INC

PROJECT: 120 CHEMIN DU QUAI HEADER STATION #8484043

MATERIAL: PE	LOCATION CLASS: 1 2 3 4	MUNICIPALITY: VILLE DE GATINEAU (MASSON - ANGERS)
ENGINEERING APPROVAL:	PLATE No: 226 GRID No: A7D NETWORK No: 6580 CORROSION No: 90-W01-078 CORROSION APPROVAL/DATE: APPROVED BY:	No de PROJET: 20014720 MASTER W.O. No / No de REQUETE: 21304273 DRAWN BY: P GARNIER DATE: 2018-07-19 PLANNER: G CHEFF DATE APPROVED:

SCALE: 1 OF 1
HORIZ: 1:250

DATE APPROVED: _____

ASLAIID NUMBER: **GL-1**

Gazifère
Une société ENBRIDGE

Document 1.5
En liasse
Requête 4055-2018