

November 13th, 2012

BY RESS and COURIER

Ms. Kirsten Walli
Board Secretary
Ontario Energy Board
Suite 2700, 2300 Yonge Street
Toronto, Ontario
M4P 1E4

Dear Ms. Walli:

**Re: Union Gas Limited (“Union”)
Owen Sound Replacement Project
Board File # EB-2012-0430**

Enclosed please find two copies of Union’s Application and pre-filed evidence for the above-noted project.

Please note that Schedule 16 – Environmental Report is not included in the electronic filing. A CD of Schedule 16, along with hard copies will be provided in our hard copy filing which we will be forwarding by courier. The same will also be available on our website.

In the event that you have any questions on the above or would like to discuss in more detail, please do not hesitate to contact me at 519-436-4601.

Sincerely,

[original signed by]

Mark A. Murray, LL.B
Manager, Regulatory Projects and Lands Acquisition
:mjp
Encl.

cc: Neil McKay, Manager Facilities Applications
Zora Crnojacki, Project Advisor

ONTARIO ENERGY BOARD

IN THE MATTER OF The Ontario Energy Board Act,
1998, S.O. 1998, c.15, Schedule B, and in particular, s.90
thereof;

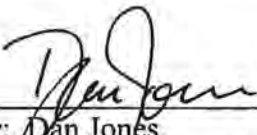
AND IN THE MATTER OF an Application by Union Gas
Limited for an Order granting leave to construct a natural
gas pipeline and ancillary facilities in the Region of
Waterloo.

UNION GAS LIMITED

1. Union Gas Limited (the “Applicant”) hereby applies to the Ontario Energy Board (the “Board”), pursuant to Section 90.(1) of the Ontario Energy Board Act (the “Act”), for an Order granting leave to construct approximately 25 kilometres (the “proposed pipeline”), in the Region of Waterloo.
2. Attached hereto as Schedule “A” is a map showing the general location of the proposed pipeline and the municipalities, highways, railways, utility lines and navigable waters through, under, over, upon or across which the proposed pipeline will pass.
3. The construction of the proposed pipeline will allow the Applicant to replace a portion of the existing Owen Sound Line located in the Region of Waterloo. The pipeline will begin at the Applicant’s Owen Sound Valve Site located on Northumberland Road just south of Highway 401 on Lot 34, Concession 9, in the Township of North Dumfries and end at the Waterloo Gate Station on Fischer-Hallman Rd. in the City of Waterloo, within the Region of Waterloo.
4. The Applicant requests that this Application be dealt with in accordance with Section 34 of the Board’s Rules of Practice and Procedure for written hearings.

5. The Applicant now therefore applies to the Board for an Order granting leave to construct the proposed pipeline as described above.

Dated at Municipality of Chatham-Kent this 13th day of November, 2012.



Per: Dan Jones,
Assistant General Counsel for
Union Gas Limited

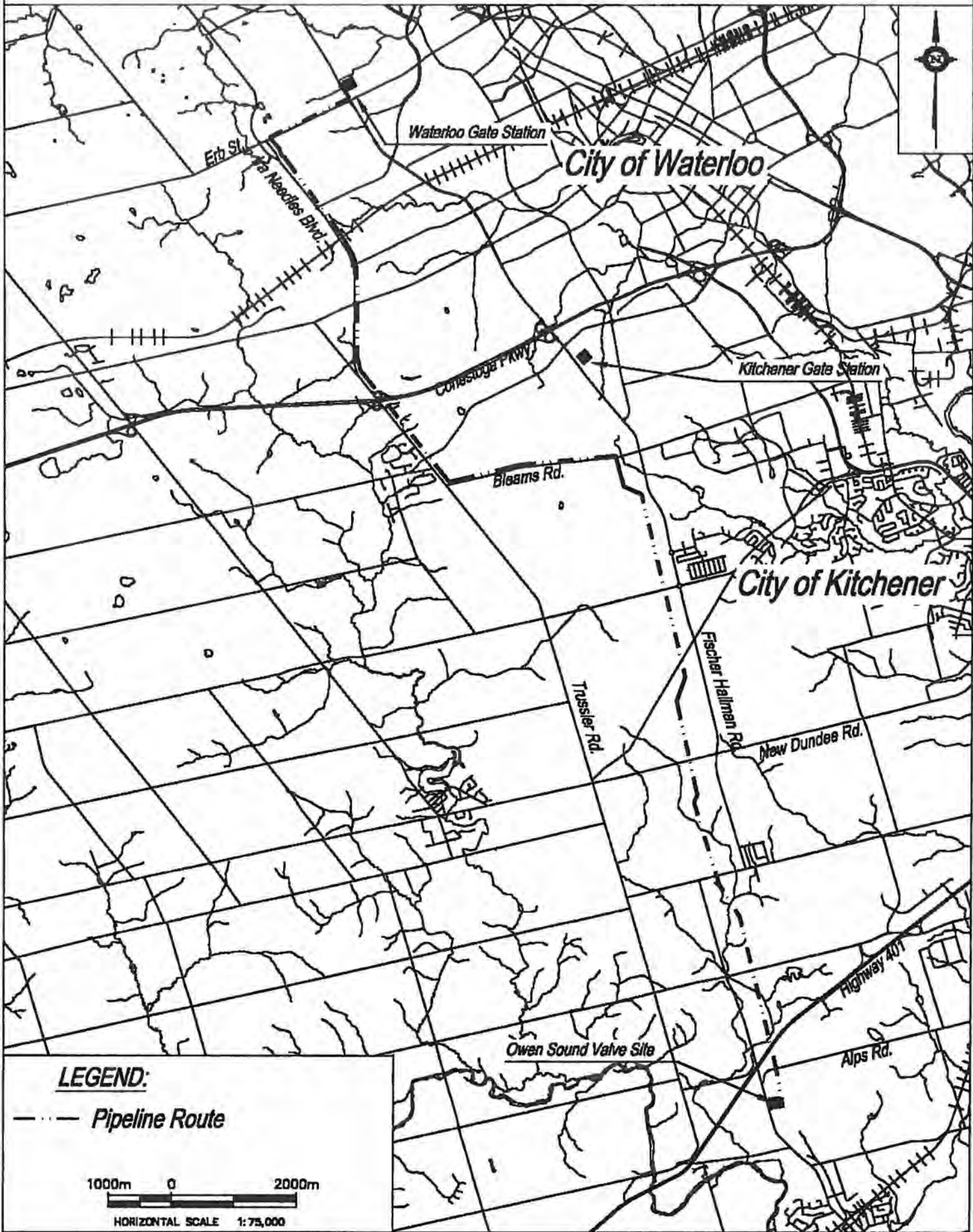
Comments respecting this Application should be directed to:

Mark Murray
Manager, Regulatory Projects & Lands Acquisition
Union Gas Limited
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Chatham, Ontario
N7M 5M1
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Fax: 519-436-5218

Email:
dxjones1@uniongas.com



LEGEND:

--- Pipeline Route

1000m 0 2000m
HORIZONTAL SCALE 1:75,000

OWEN SOUND REPLACEMENT PROJECT

INDEX

Notice of Application

- Location Map

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Schedules

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1 **Project Summary**

- 2 1. Union Gas Limited ("Union"), pursuant to Section 90.(1) of the Ontario Energy Board Act,
3 requests approval from the Ontario Energy Board ("OEB") for leave to construct 25
4 kilometers ("km") of NPS 12 hydrocarbon (natural gas) pipeline ("proposed pipeline") in
5 order to replace a portion of the existing Owen Sound Line located in the Region of Waterloo.
6 Union is proposing to replace approximately 25 kilometers of the Owen Sound Line between
7 the Owen Sound Valve Site and the Waterloo Gate Station (the "Project"). The location of the
8 proposed pipeline is shown on Schedule 1.
- 9 2. The Owen Sound Line commences from the Owen Sound Valve Site and terminates at the
10 Owen Sound Gate Station ("Owen Sound Line"). The Owen Sound Line was constructed in
11 1958 and is inspected periodically as part of Union's integrity management program. Results
12 of scheduled inspections in 2011 have identified multiple integrity issues that could pose
13 safety and security of supply concerns if not addressed.
- 14 3. The costs of the Project are \$23,906,628.00.
- 15 4. Union has discussed the Project with the directly affected landowners along the route of the
16 pipeline and no one has identified any significant issues.
- 17 5. Union has completed an Environmental Report ("ER") for the Project. The report did not
18 identify any long term significant environmental impacts as a result of the Project.
- 19 6. Union is proposing to replace this pipeline during the 2013 summer construction season. In
20 order to accommodate this, Union requests Ontario Energy Board approval by April 2013.

1 **Description of Existing System**

2 7. The Owen Sound System as shown in Schedule 2 is fed by Union's Trafalgar System and
3 extends northerly from the Owen Sound Valve Site in North Dumfries Township. The Owen
4 Sound System supplies natural gas to approximately 98,000 customers in communities in the
5 counties of Waterloo, Perth, Bruce, Grey and Wellington. In addition, the City of Kitchener is
6 also served off this pipeline system.

7 8. Specifically, gas flows in a northerly direction from the Owen Sound Valve Site for 34 km
8 along a NPS 16 pipeline (Kitchener-Waterloo West Line) to Union's St. Jacobs Regulating
9 Station ("St. Jacobs Station") in Woolwich Township. In addition, gas flows from the Owen
10 Sound Valve Site for approximately 7 km along a NPS 12 pipeline to the Strausburg Station.
11 An NPS 10 pipeline feeding the cities of Kitchener and Waterloo is located between the
12 Strausburg Station and the St. Jacobs Station.

13 9. From the St. Jacobs Station, the Owen Sound Line continues in a northerly direction for 38 km
14 to Union's Teviotdale Gate Station. In 1999, 2002 and again in 2006, Union installed
15 approximately 17 km (RP-1999-0025) 23 km (RP-2002-0001) and 7.4 km (EB-2006-0040)
16 respectively of NPS 12 pipeline from the St. Jacobs Station to Teviotdale.

17 10. The Owen Sound Line continues in a northerly direction from the Teviotdale Gate Station for
18 39 km with NPS 8 and NPS 10 looped pipelines to Durham.

19 11. From Durham, the Owen Sound Line continues in a northerly direction for 45 km with a
20 single NPS 10 pipeline to the Owen Sound Gate Station.

1 12. From the Owen Sound Gate Station, the Owen Sound East Line extends eastwardly with a
2 NPS 6 / NPS 8 pipeline for approximately 58 km to Collingwood. This line serves
3 Collingwood Township, including the Towns of Meaford, Thornbury and Craigeleith.

4 13. Also highlighted on Schedule 2 are the lengths and Maximum Operating Pressures (“MOP”)
5 of the existing Owen Sound System as well as other laterals that make up the Owen Sound
6 System.

7 **Background**

8 14. Since 2002, Union has had an extensive pipeline maintenance and integrity management
9 program in place that includes the regular monitoring of pipelines for corrosion, leaks or other
10 potential damage to ensure its pipelines remain in safe operating condition.

11 15. As part of this program, Union regularly conducts inline assessments of its pipelines using
12 inline inspection tools to determine the condition of the pipelines. Based on the results of
13 these assessments, Union takes appropriate mitigation action to address any integrity issues
14 that are found.

15 16. The Owen Sound Line was initially inspected using inline inspection tools in 2003 and
16 subsequently another inspection was completed in 2011. Investigative digs were also
17 completed on the line subsequent to the inline inspection, and some of the more severe defects
18 were removed from the line.

19 17. Between 2003 and 2011 integrity concerns on the Owen Sound Line have been addressed on
20 an individual basis. This included immediate work to implement two repairs and two short
21 replacements sections to address high risk anomalies. With the results of the 2011 survey that

1 identified integrity issues spanning 19 km, replacement of individual sections is no longer a
2 feasible solution.

3 18. Based on Union's experience with this line and given its overall condition and proximity to
4 built-up areas, partial replacement of the pipeline was deemed the most effective action to
5 manage and ensure the long term integrity of the pipeline.

6 19. If the Project is delayed, integrity concerns will become more serious as risks of failure
7 increases.

8 **Proposed Facilities**

9 20. Based on Union's analysis of historic and expected growth in the Waterloo area and the area
10 served by the Owen Sound System, it was determined that upsizing the pipeline was not
11 required and that the pipe could be replaced size for size.

12 21. In 2011 Union signed a contract with the City of Kitchener for the period 2011 to 2015.
13 Union has the ability of meet the contract requirements for both pressure and volume for the
14 City of Kitchener with the replacement of the pipeline.

15 22. Two sections of the Owen Sound Line have been replaced for integrity, class location, or
16 other reasons. These sections of pipeline will not require replacement as part of this Project.

17 23. Maps showing the existing and proposed pipeline systems are identified on Schedules 3 and
18 4, respectively.

19 **Project Costs and Economics**

20 24. The estimated Project costs for the project are \$23,906,628.00. A detailed breakdown of these
21 costs can be found at Schedule 5 and 6.

1 25. A Discounted Cash Flow report has not been completed for this Project as the Project is
2 underpinned by the relocation requirements and there are no new contracts associated with
3 this Project.

4 **Design and Construction**

5 26. Between the Owen Sound Valve site and Strausberg Transmission Station the existing
6 pipeline which has not been previously replaced will be removed and a new pipeline installed
7 in the existing location. This pipeline will have an MOP of 6160 kPa.

8 27. Between the Strausburg Transmission Station and the Kitchener Gate Station the existing
9 pipeline will be removed and a new pipeline installed generally the same location. This
10 pipeline will have an estimated operation pressure (“EOP”) of 3450 kPa.

11 28. Between the Kitchener Gate Station and the Waterloo Gate Station approximately 6.3 km of
12 the existing pipeline will be abandoned in place and will be replaced with a new pipeline.

13 29. This new pipeline will commence at Bleams Road and terminate at the Waterloo Gate Station.
14 This pipeline will be constructed generally on road allowance. The pipeline will have an EOP
15 of 3450 kPa.

16 30. The design and pipe specifications are outlined in Schedule 7. All the design specifications
17 are in accordance with the *Ontario Regulations 210/01* under the *Technical Standards and*
18 *Safety Act 2000, Oil and Gas Pipeline Systems*. This is the regulation governing the
19 installation of pipelines in the Province of Ontario.

20 31. In consideration for future potential development along the route, the entire length of the
21 proposed pipeline is designed to meet Class 3 location requirements. The actual current class

1 location for the route is predominantly Class 1 for the southern portion of the route and Class
2 3 for the northern portion.

3 32. The proposed pipeline has an outside diameter of 323.9 mm and a minimum wall thickness of
4 7.1 mm. The pipe is to be manufactured by the electric resistance weld process and will have
5 minimum specified minimum yield strength of 359 MPa. This pipe will be manufactured to
6 the CSA Z245.1-07 Steel Line Pipe Standard for Pipeline Systems and Materials.

7 33. The pipeline will be hydrostatically tested in accordance with the Ontario Regulation
8 requirements.

9 34. The minimum depth of cover will be in accordance with Clause 4.11 of the CSA Code
10 Z662-11. Additional depth greater than the planned depth of 1.2 meters will be provided to
11 accommodate existing or planned facilities.

12 35. Material is readily available for this Project.

13 36. Schedule 8 indicates the proposed construction schedule which is scheduled to commence in
14 April 2013 and be completed by the end of November, 2013.

15 37. The existing pipelines will be abandoned in compliance with TSSA guidelines. The TSSA
16 abandonment guidelines can be found at Schedule 9 (“Abandoned Pipeline”).

17 38. Schedule 10 describes the general techniques and methods of construction that will be
18 employed in the construction of the proposed pipelines. This schedule details the following
19 activities; locating, clearing and grading, removal of existing pipe, stringing of new pipe,
20 trenching, welding, burying, tie-ins, cleaning and testing and restoration. Union's construction

1 procedures have been continually updated and refined in order to be responsive to landowner
2 concerns and mitigate potential environmental effects related to pipeline construction.

3 **Landowners**

4 39. For the majority of the pipeline between the Owen Sound Valve site and Kitchener Gate
5 Station, Union plans to use its existing easement and associated land rights or the rights under
6 Union's Franchise Agreement with the Region of Waterloo. Union will require temporary
7 land rights in this section.

8 40. For the section between the Bleams Road and the Waterloo Gate Station, Union will require
9 permanent and temporary land rights or utilize the provisions outlined in the existing franchise
10 agreement, with the Region of Waterloo, to construct the pipeline.

11 41. For the Abandoned Pipeline, Union will maintain its existing land rights.

12 42. Union will require crossing permits or agreements with Municipalities, Conservation
13 Authority, railways and other utilities along the pipeline route.

14 43. Union has acquired an easement of approximately three metres by 986 metres for the purposes
15 of a rectifier bed.

16 44. Union has met or spoken with all directly affected landowners along the pipeline route.
17 Attached at Schedule 11 is a summary of the landowner contacts that have and will take place
18 during planning and construction of the proposed pipeline.

19 45. Schedule 12 is a map that shows the running line of the pipeline and the land rights required
20 for the pipeline.

- 1 46. Schedule 13 lists the permanent and temporary land use rights required to construct both
2 sections of the pipeline.
- 3 47. There are 99 land rights required along the pipeline route.
- 4 48. Union has obtained 37 of these land rights.
- 5 49. Union continues to meet with the un-signed landowners in an attempt to reach an agreement
6 for the required land rights.
- 7 50. Union's form of easement is attached as Schedule 14 this form will be offered to all new
8 landowners where permanent easements are required. This easement covers the installation,
9 operation and maintenance of one pipeline. The main restrictions imposed upon the individual
10 landowner by having this easement is that the landowner cannot erect buildings or privacy
11 fencing in the easement. In addition, the landowner cannot excavate on the easement or install
12 structures which would impede access to Union's pipeline. The landowner can, however,
13 install service pipe or utility lines or develop the easement into a laneway or driveway
14 entrance upon prior written approval by Union.
- 15 51. Temporary land use agreements are usually required for a period of two years. This allows
16 Union an opportunity to return in the year following construction to perform further clean-up
17 and remediation work as may be required.
- 18 52. At the conclusion of construction, Union will seek a full and final release from each of the
19 directly affected landowners. This full and final release will include compensation for any
20 damages caused or attributed to the pipeline construction.

- 1 53. Union has implemented a comprehensive program to provide landowners, tenants, and other
2 interested persons with information regarding the proposed pipeline. Project information was
3 distributed through correspondence and meetings with the public.
- 4 54. For over a decade Union has had in place a comprehensive Landowner Relations program
5 which has proven successful on other projects. The key elements of this program are a
6 Complaint Tracking System, and the assignment on a full-time basis of a Landowner
7 Relations Agent to projects such as these to ensure that commitments made to landowners are
8 fulfilled, to address questions and concerns of the landowners, and to act as a liaison between
9 landowners and the contractor and company engineering personnel. Union's Complaint
10 Resolution System will be used in this project to record, monitor, and ensure follow-up on any
11 complaint or issue received by Union related to the construction. This process assists in
12 resolving complaints and tracking the fulfillment of commitments. A process chart and
13 explanatory notes that describe the Complaint Resolution System are found in Schedule 15.
14 In addition to the Landowner Relations Agent's duties during construction, the individual
15 assigned to this position will conduct pre-construction and post-construction interviews to
16 capture any concerns (so that they can be resolved, if at all possible) and document specific
17 landowner concerns and comments (so that they can be considered in the planning of future
18 projects).
- 19 55. After construction, negotiations with landowners will continue, where necessary, to settle any
20 damages that were not foreseen or compensated for, prior to construction.

1 **Environmental**

2 56. As the majority of the pipeline between Owen Sound valve site and the Kitchener Gate Station
3 will be replaced in the same easement, the full route selection was not completed. Within this
4 section, the pipeline will be shifted at three locations on the same property at the landowner
5 request to facilitate future development on their property.

6 57. For the section of the pipeline between Kitchener Gate Station and the Waterloo Gate Station
7 Union looked at two alternatives;

8 a. replace in the original location; or,

9 b. a road allowance alternative.

10 As the current location travels through a very congested area including backyards it was
11 determined that a new road allowance alternative was preferred.

12 58. Union met with municipal officials of the Region of Waterloo to discuss the preferred route
13 alternative. The Region of Waterloo did not identify any concerns with Union's chosen route.

14 59. Union retained the services of Azimuth Environmental to review the proposed route of the
15 pipeline and prepare an Environmental Report ("ER"). The ER can be found at Schedule 16.

16 60. An open house to give the general public an opportunity to review the project and provide
17 comments on the Project was held on August 27, 2012 at the Country Hill Community Centre
18 in Kitchener, Ontario. Twenty people attended the open house and asked general questions
19 concerning the location of the new pipeline within road allowance, abandonment of the
20 existing pipeline and general construction methods.

- 1 61. The ER identified Species at Risk concerns along the route and Union is working with the
2 Ministry of Natural Resources to develop mitigation practices that will ensure there will be no
3 long term environmental impacts.
- 4 62. The ER was submitted to the Ontario Pipeline Coordinating Committee (“OPCC”) on
5 November 2, 2012. Copies were also submitted to local municipalities, government agencies,
6 First Nations and Métis. Summaries of the report were provided to all directly affected
7 landowners and copies were also submitted to anyone who requested a copy. A summary of
8 the comments and Union’s response will be provided in Schedule 17 as they are received.
- 9 63. Union will implement a program dealing with environmental inspection. This program will
10 ensure that the recommendations in the ER are followed. An inspector trained in
11 environmental issues will monitor construction activities and ensure that all activities comply
12 with the mitigation measures found in the ER.
- 13 64. The total estimated environmental mitigation costs associated with the construction of the
14 proposed facilities are \$831,000.00. A breakdown of these costs can be found at Schedule 18.
15 The environmental costs are included in the Project costs.
- 16 65. Union has discussed the project with the Grand River Conservation Authority and the
17 Ministry of Natural Resources and will continue to work with them throughout the project to
18 secure any necessary permits. Union expects to obtain the necessary permits and
19 authorizations prior to construction.
- 20 66. With respect to watercourses, Union will adhere to the agreement with the Department of
21 Fisheries and Oceans – Ontario great Lakes Area (DFO- OGLA/UGL AGREEMENT 2088).
22 Under the agreement Union conducts watercourse crossings using a specific set of conditions

1 and mitigation measures without DFO review. There are 7 water courses associated with the
2 Project that will be crossed using the directional drill method. The necessary permits will be
3 obtained from the Grand River Conservation Authority.

4 **First Nation and Métis**

5 67. Union has a long standing practice of consulting with Métis and First Nations, and has
6 programs in place whereby Union works with them to ensure they are aware of Union's
7 projects and have the opportunity to participate in both the planning and construction phases
8 of the project.

9 68. Union has an extensive data base and knowledge of First Nations and Métis organizations in
10 Ontario and consults with the Tribal organizations and the data bases of the Ministry of
11 Natural Resources, Ministry of Aboriginal Affairs and Aboriginal Affairs and Northern
12 Development Canada to ensure consultation is carried out with the most appropriate groups.

13 69. Union has signed a General Relationship Agreement with the Métis Nation of Ontario which
14 describes Union's commitments to the Métis when planning and constructing pipeline
15 projects.

16 70. The following First Nations and Métis were notified by letter regarding the Project on two
17 separate occasions.

Chief William Montour	Six Nations of the Grand River First Nation
Chief Bryan LaForme	Mississaugas of the New Credit First Nation
Melanie Paradis	Director of Lands Resources and Consultation Métis Nation of Ontario
Hazel Hill	Interim Executive Director, Haudenosaunee Development Institute

1 71. Union conducted formal consultations with the following First Nations and the Métis Nation
2 for the Project:

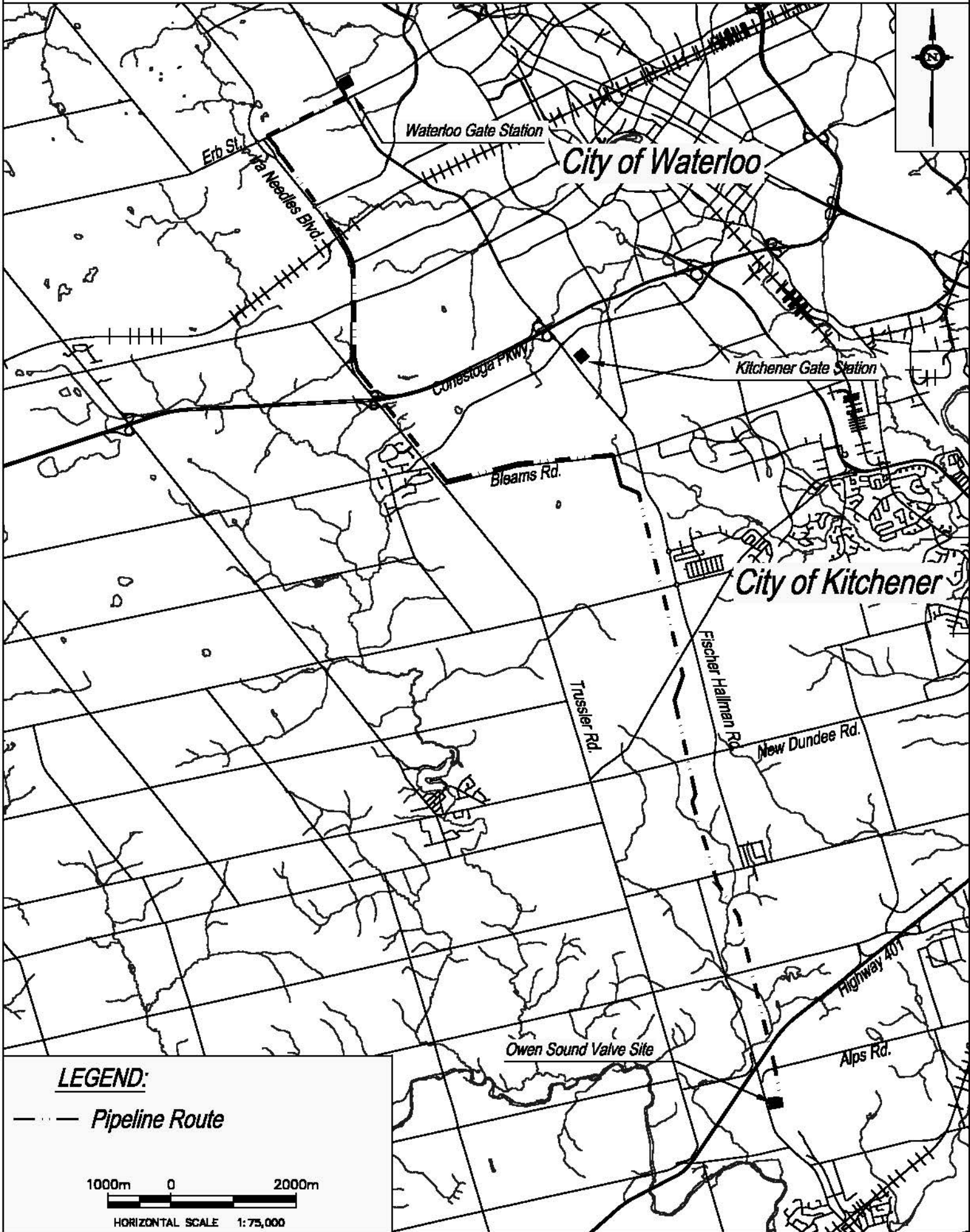
- 3 ○ Six Nation of the Grand River First Nation
- 4 ○ Mississaugas of the New Credit
- 5 ○ Métis Nation of Ontario

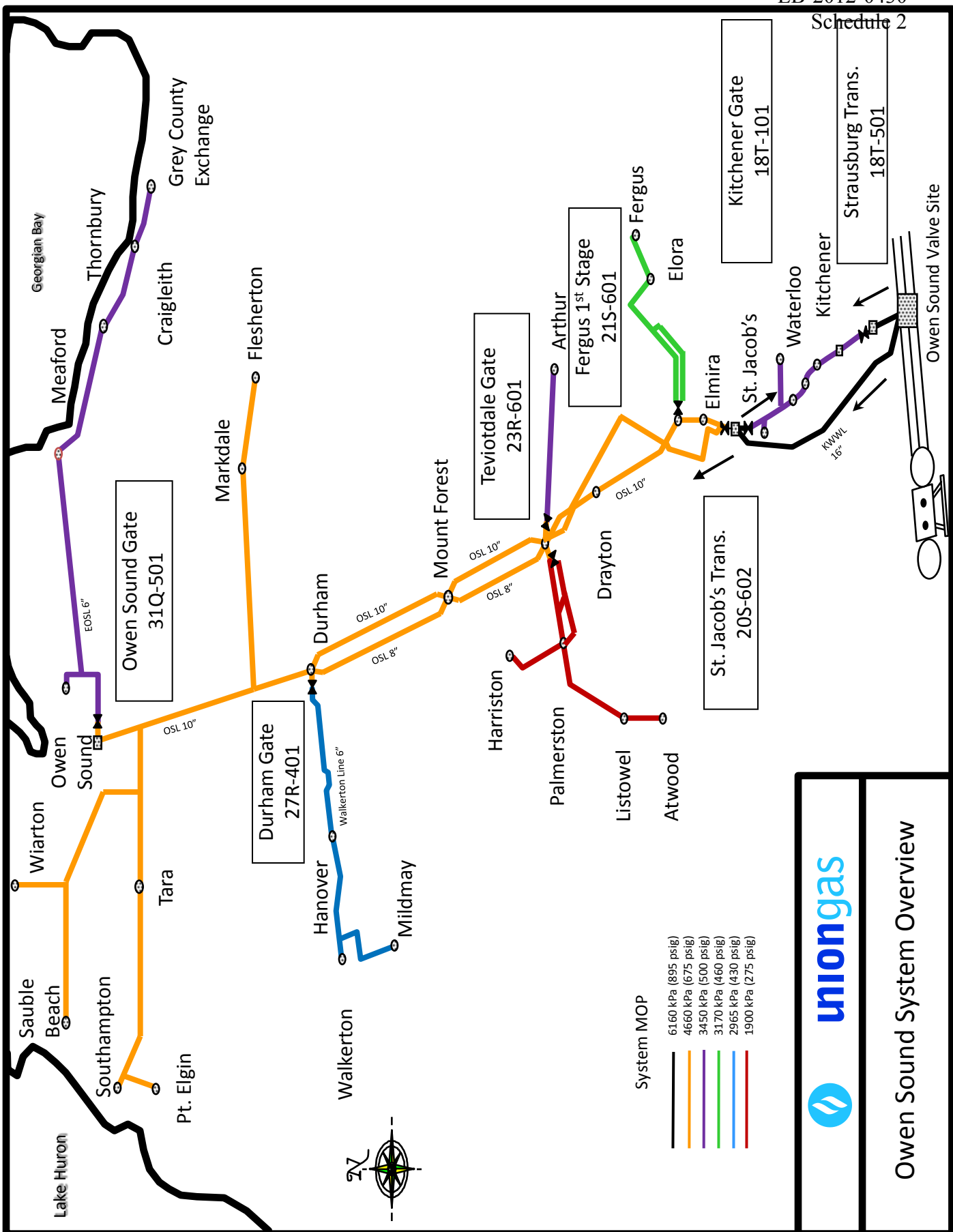
6 72. The consultation included:

- 7 ○ May 7, 2012: initial letters sent to the First Nations and Métis Nation of Ontario by
8 Azimuth Environmental Consultants advising them of the start of the Environmental
9 Assessment process;
- 10 ○ June 20, 2012: Email sent to Six Nations, Mississaugas of New Credit and the Métis
11 Nation of Ontario updating them on the project and upcoming Public Information
12 Session being held;
- 13 ○ Aug 1, 2012 met with Chief LaForme and Carolyn King, Consultation Manager of
14 Mississaugas of the New Credit to discuss this project;
- 15 ○ Aug 2, 2012 met with the Six Nations Consultation Committee to discuss this
16 project;
- 17 ○ Aug, 7, 2012: sent draft Capacity Funding Agreement to the Six Nations
18 Consultation Committee for their review;
- 19 ○ Aug. 7, 12: Sent proposal for Capacity Funding to Chief LaForme and Carolyn King
20 of the Mississaugas of New Credit;
- 21 ○ August 8, 2012: meeting held with Métis Nation of Ontario Lands, Resources and
22 Consultation committee to review the project scope;
- 23 ○ September 6, 2012: met with Six Nations Consultation Committee to review the
24 Capacity Funding Agreement;
- 25 ○ September 10, 12: letter sent to Haudenosaunee Development Institute regarding the
26 Owen Sound project;
- 27 ○ September 21, 2012: sent email letter to Hazel Hill of the Haudenosaunee
28 Development Institute on the projects being worked on by Union;
29

- 1 ○ Oct. 1, 12: Received Capacity Funding agreement draft from Six Nations
2 Consultation Committee.
3
4 ○ October 19, 12: Follow up email to Mississaugas of New Credit on Capacity
5 Funding proposal;
- 6 73. Copies of the correspondence that were sent to the First Nations and Métis groups can be
7 found in Schedule 19.
- 8 74. The following issues were raised as part of the Engagement process:
- 9 ○ Part of the Project lies within the Six Nations of the Grand: Haldimand Tract Land
10 Claim;
- 11 ○ Mississaugas of the New Credit and Six Nations of the Grand River would like to
12 participate in any Stage 3 Archeological Studies;
- 13 ○ Mississaugas of the New Credit and Six Nations of the Grand River First Nation will
14 require Capacity Funding to complete a full review of the Project;
- Métis Nation would like further information sessions with the local Métis
 Community Councils to review the scope of the project;
- 15
16 ○ Haudenosaunee Development Institute requires an Engagement Agreement to be
17 formalized before discussions occur.
18
- 19 75. Union proposed to address these concerns in the following manner:
- 20 ○ Union is actively participating in a formal consultation process with the Six Nations
21 Consultation Committee;
- 22 ○ Capacity Funding Agreement has been finalized with the Six Nations of the Grand
23 First Nation;
- 24 ○ Negotiations continue on the Capacity Funding Agreement with Mississaugas of
25 New Credit;
- 26 ○ Union has instructed its Archeology Consultants to contact the Six Nations of the
27 Grand and Mississaugas of New Credit First Nations Consultation Committees to
28 request they provide a First Nations environmental monitor during a Stage 3
29 Archeological study if required. Union agreed to compensate them for their time on
30 the site;


- 1 ○ Union will coordinate information meetings to be held with the two Métis
2 Community Councils in November 2012;
- 3 ○ Union will begin engagement meetings with the Haudenosaunee Development
4 Institute in November 2012.
- 5 76. During construction, Union has inspectors in the field who are available to First Nation's and
6 Métis organization as a primary contact to discuss and review any issues that may arise during
7 construction.
- 8 77. When Union completes the necessary archaeological assessments for the Project, Union will
9 consult with and provide the result of the surveys to any First Nations or Métis upon their
10 request.





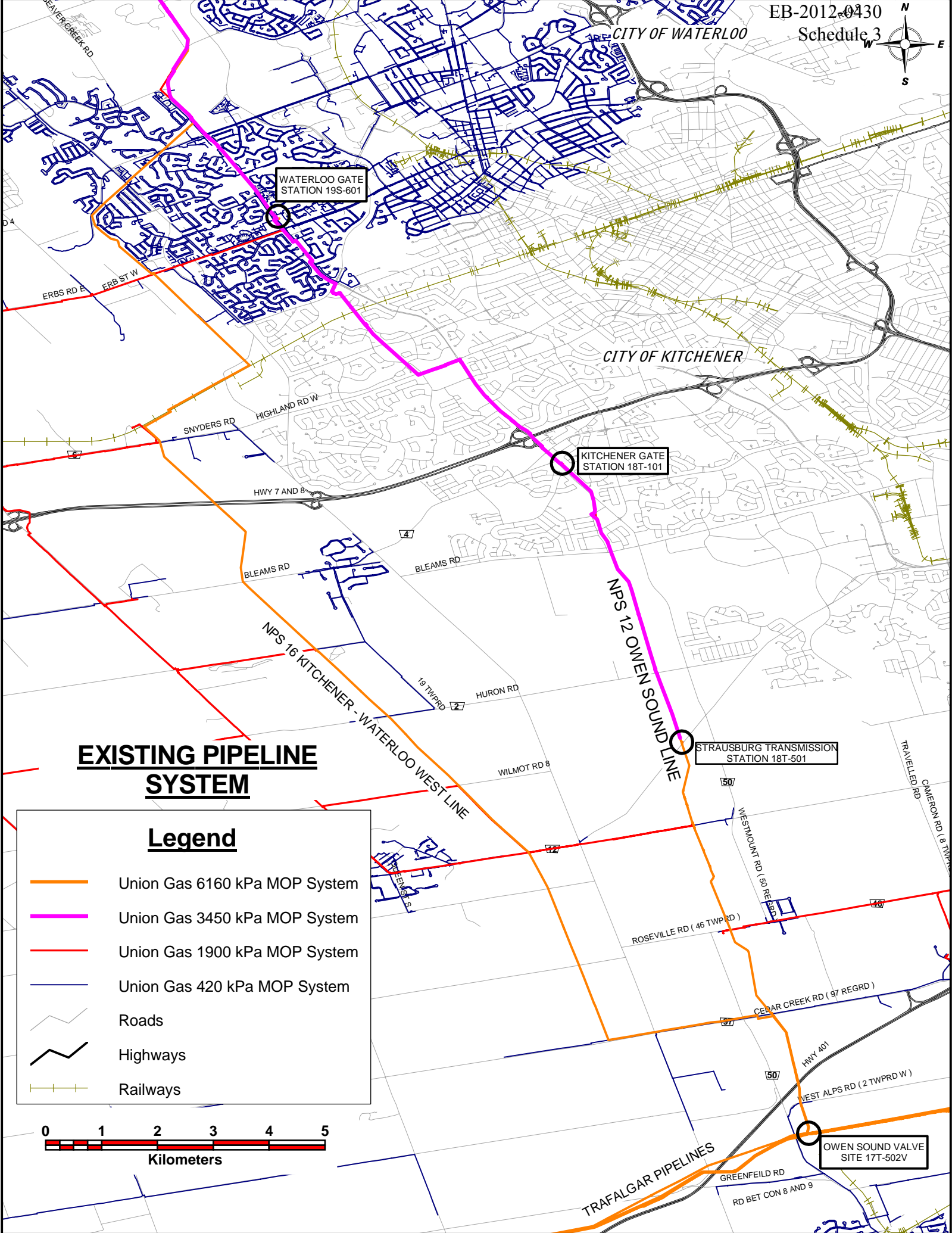
System MOP

Black line	6160 kPa (895 psig)
Orange line	4660 kPa (675 psig)
Purple line	3450 kPa (500 psig)
Green line	3170 kPa (460 psig)
Blue line	2965 kPa (430 psig)
Red line	1900 kPa (275 psig)



uniongas

Owen Sound System Overview

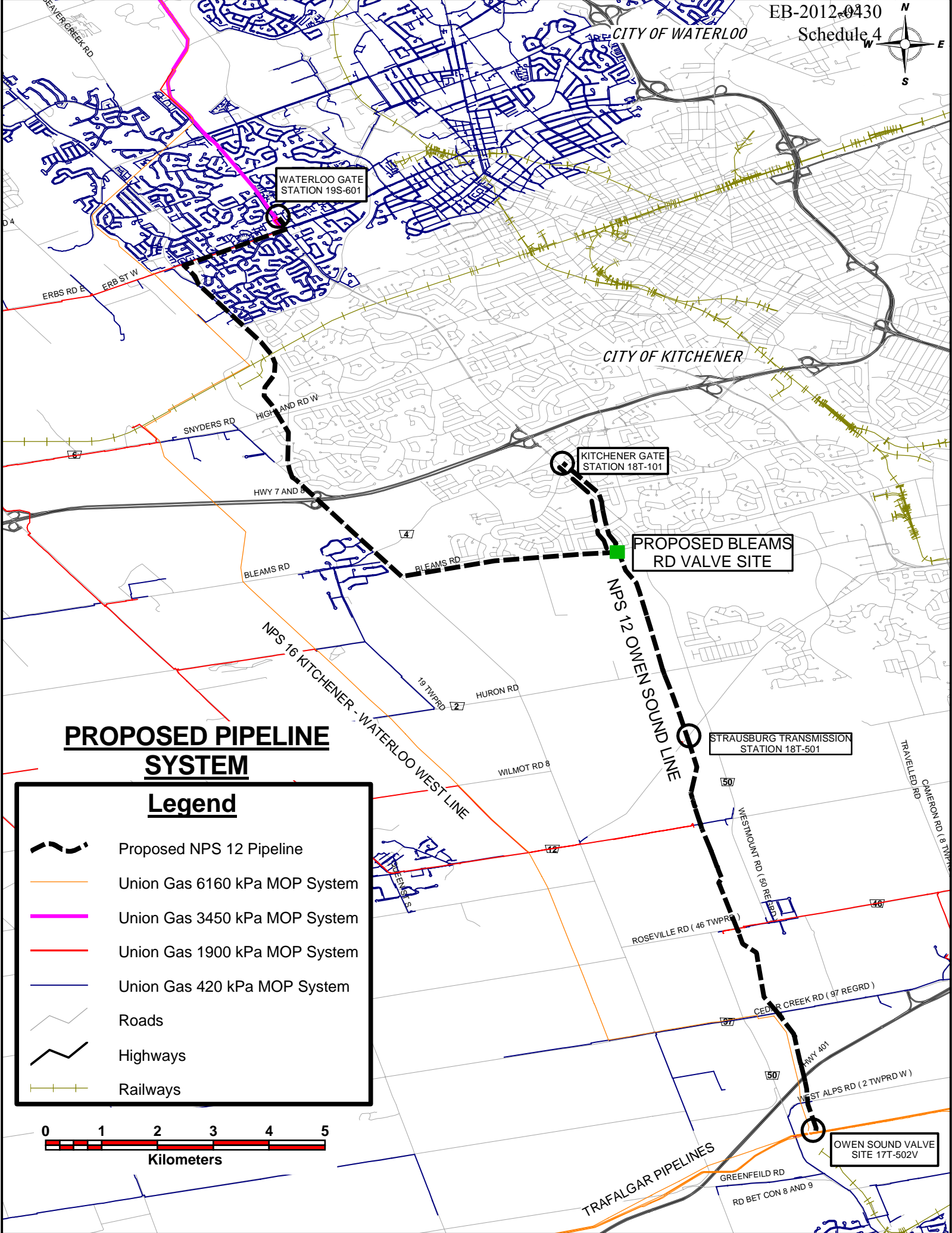


EXISTING PIPELINE SYSTEM

Legend









- Union Gas 6160 kPa MOP System
- Union Gas 3450 kPa MOP System
- Union Gas 1900 kPa MOP System
- Union Gas 420 kPa MOP System
- Roads
- Highways
- Railways

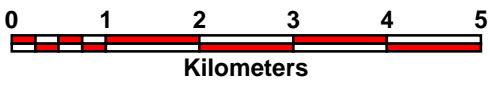




PROPOSED PIPELINE SYSTEM

Legend

-  Proposed NPS 12 Pipeline
-  Union Gas 6160 kPa MOP System
-  Union Gas 3450 kPa MOP System
-  Union Gas 1900 kPa MOP System
-  Union Gas 420 kPa MOP System
-  Roads
-  Highways
-  Railways



WATERLOO GATE STATION 19S-601

KITCHENER GATE STATION 18T-101

PROPOSED BLEAMS RD VALVE SITE

STRAUSBURG TRANSMISSION STATION 18T-501

OWEN SOUND VALVE SITE 17T-502V

NPS 12 OWEN SOUND LINE

NPS 16 KITCHENER - WATERLOO WEST LINE

TRAFALGAR PIPELINES

CITY OF KITCHENER

CITY OF WATERLOO

ERBS RD E ERB ST W

SNYDERS RD

HIGHLAND RD W

HWY 7 AND 8

BLEAMS RD

BLEAMS RD

19 TWP RD

HURON RD

WILMOT RD 8

ROSEVILLE RD (46 TWP RD)

WESTMOUNT RD (97 REG RD)

CEDAR CREEK RD (97 REG RD)

HWY 401

WEST ALPS RD (2 TWP RD W)

GREENFIELD RD

RD BET CON 8 AND 9

TRAVELLED RD CAMERON RD (8 TWP RD)

TOTAL ESTIMATED PIPELINE CAPITAL COSTS

OWEN SOUND LINE REINFORCEMENT

Pipeline and Equipment

NPS 12 Steel Pipe, Coated 25,500 metres	\$2,843,000	
Valves, Fittings and Miscellaneous Material	\$246,000	
	<hr/>	
Sub-Total	\$3,089,000	
Stores Overhead – Valves, Fittings and Misc. Material	\$19,000	
Total Pipeline and Equipment	<hr/>	\$3,108,000

Construction and Labour

Lay 25,500 metres of NPS 12 Steel Pipe and abandon 7000m of NPS 12 Steel Pipe Boring, Weights, Testing, Valving, Casing Miscellaneous Contract Labour	\$12,554,000	
Company Labour, X-Ray, Construction Survey, Legal, Mill Inspection and Consultants	\$3,754,000	
Easements, Lands & Damages	\$1,011,000	
Total Construction and Labour	<hr/>	\$17,319,000

Total Pipeline and Equipment and Construction and Labour **\$20,427,000**

Contingencies **\$2,573,000**

Interest During Construction **\$328,000**

Total Estimated Pipeline Capital Costs – 2013 Construction **\$23,328,000**

Includes the Estimated Environmental Costs Identified in Schedule 18.

TOTAL ESTIMATED STATION CONSTRUCTION COSTS

STATION MODIFICATIONS

Station Equipment	\$170,000	
Construction and Labour	<u>\$402,000</u>	
Total Station Equipment and Construction and Labour		\$572,000
Interest During Construction		\$7,000
Total Estimated Station Capital Costs – 2013 Construction		<u><u>\$579,000</u></u>

OWEN SOUND REPLACEMENT PROJECT

DESIGN AND PIPE SPECIFICATIONS

Design Specifications:

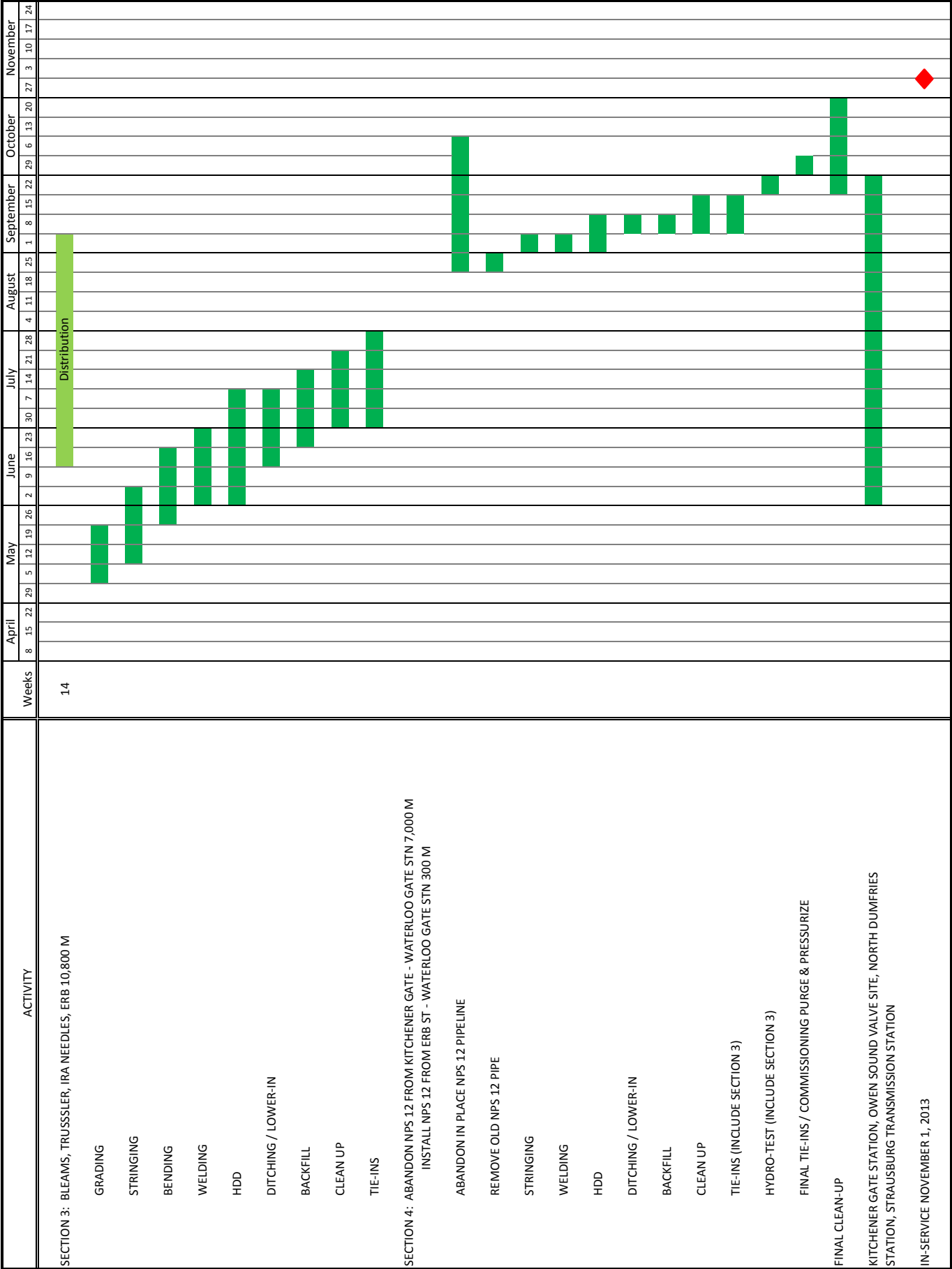
6160 kPa / 3450 kPa Operating Pressures

Class Location	Class 1& 3 Designed to Class 3
Design Factor	0.8
Location Factor (General)	0.7
Location Factor (Roads)	0.625
Maximum Design Pressure	6160 kPa
Established Operating Pressure Owen Sound V.S. to Strausburg Station Strausburg Station to Kitchener Gate	6160 kPa 3450 kPa
Test Medium	Water
Test Pressure (min)	8624 kPa
Valves	PN 100
Minimum Depth of Cover	1.2 m

Pipe Specifications (for Classes and Maximum Operating Pressures Specified Above):

Size	NPS-12
Wall Thickness / Grade	7.1mm / Grade 359
Type	Electric Resistance Weld
Description	C.S.A. Standard Z245.1-07
Category	I
Coating	Fusion Bond Epoxy (FBE)
% SMYS	39.1%

OWEN SOUND REINFORCEMENT PROJECT





PIPELINE ABANDONMENT CHECKLIST

PLANNING

1. Has subsidence been considered for pipelines having a diameter greater than 323.9 mm (12 inches)?
2. Has the pipeline company notified the landowners and proper authorities (municipalities, MOE, MTO, MNR, etc.) of the abandonment?
3. Have abandonment procedures for crossings been agreed upon by utilities (road, railway, pipelines, etc.) and authorities responsible for rivers and streams crossed by the pipeline?
4. Has consideration been given to the effect of drainage in the area surrounding the abandoned pipeline, which may act as a conduit for ground water after the pipe is perforated by corrosion?
5. Has consideration been given to the removal of all the aboveground facilities?
6. Has consideration been given to any hazards posed to people, equipment, wildlife or livestock by any apparatus left in place above or underground?

IMPLEMENTATION

1. Has the abandoned pipeline been physically isolated from the live pipeline?
2. Has the pipeline been drained of all fluids and adequately cleaned to prevent ground water contamination from hydrocarbon residue on the pipe wall after the pipe is perforated by corrosion?
3. Have all aboveground facilities been removed and has consideration been given to removing underground facilities such as anode beds and tanks?

LIABILITY/RISK MANAGEMENT

1. Does the pipeline company have a contingency plan to remedy any contamination caused by the abandoned pipeline?
2. Has consideration been given to conducting post-abandonment surveillance programs?
3. Has consideration been given to maintaining signage after the pipeline is abandoned?
4. Has consideration been given to providing a locate service after the pipeline is abandoned?

GENERAL TECHNIQUES AND METHODS OF CONSTRUCTION

1. Union Gas Limited (“Union”) will provide its own inspection staff to enforce Union’s construction specifications and *Ontario Regulation 210/01 under the Technical Standards and Safety Act 2000, Oil and Gas Pipeline Systems*.
2. Pipeline construction is divided into several crews that create a mobile assembly line. Each crew performs a different function, with a finished product left behind when the last crew has completed its work.
3. Union’s contract specifications require the contractor to erect safety barricades, fences, signs or flashers, or to use flag persons as may be appropriate, around any excavation across or along a road.
4. It is Union’s policy to restore the areas affected by the construction of the pipeline to “as close to original condition” as possible. As a guide to show the “original condition” of the area, photos and/or a video will be taken before any work commences. When the clean up is completed, the approval of the landowner or appropriate government authority is obtained.
5. Construction of the pipeline includes the following activities:

Locating Running Line

6. Union establishes the location where the pipeline is to be installed (“the running line”). For pipelines within road allowances, the adjacent property lines are identified and the running line is set at a specified distance from the property line. For pipelines located on private easement, the easement is surveyed and the running line is set at the specified distance from the edge of the easement. The distance from the start of the pipeline (or other suitable point) is marked on the pipeline stakes and the drawings.

Clearing and Grading

7. The right-of-way is prepared for the construction of the pipeline. When required, bushes, trees and crops are removed and the ground leveled. When required, the topsoil is stripped and stored, and/or sod is lifted.

Removing Existing Pipeline

8. The existing trench is excavated exposing the existing pipeline. The spoil material is placed onto the easement, separate from the topsoil. The existing NPS 12 pipeline is removed from the trench, cut into 18 m long sections and trucked off site. The trench is then backfilled. Some existing sections of pipe within road allowance are abandoned in place. These abandoned sections are capped and filled with grout.

Stringing

9. The pipe is strung adjacent to the running line. The joints of pipe are laid end-to-end on supports that keep the pipe off the ground to prevent damage to the pipe coating.

Welding

10. The pipe is welded/fused into manageable lengths. The welds in steel pipe are radiographically inspected, if required, and the welds are coated.

Burying

11. Pipe may be buried using either the trench method or the trenchless method. All utilities that will be crossed or paralleled by the pipeline are located by the appropriate utility prior to installing the pipeline. Prior to trenching, all such utilities will be hand-located or hydro vacuumed.

Trench Method: Trenching is done by using a trenching machine or hoe excavator depending upon the ground conditions. Provisions are made to allow residents access to their property, as required. All drainage tiles that are cut during the trench excavation are flagged to signify that a repair is required. All tiles are measured and recorded as to size, depth, type and quality. This information is kept on file with Union. If a repair is necessary in the future, Union will have an accurate method of locating the tile. Next, the pipe is lowered into the trench. For steel pipe, the pipe coating is tested using a high voltage electrical tester as the pipe is lowered into the trench. All defects in the coating are repaired before the pipe is lowered in. Next, if the soil that was excavated from the trench is suitable for backfill, it is backfilled. If the soil is not suitable for backfill (such as rock), it is hauled away and the trench is backfilled with suitable material such as sand. After the trench is backfilled, drainage tile is repaired.

Rock Excavation: Rock in solid beds or masses will be removed by “Hoe Ram”, where practical. Where rock that is too hard to “Hoe Ram” is encountered, blasting will be permitted in accordance to Union’s construction procedures and the *Canadian Explosives Act*. The contractor shall obtain all necessary permits and shall comply with all legal requirements in connection with the use, storage and transportation of explosives.

Trenchless Method: Trenchless methods are alternate methods used to install pipelines under railways, roads, sidewalks, trees and lawns. There are two trenchless methods that could be used for the proposed NPS 12 pipeline, depending on the soil conditions, and the length and size of the installation. These methods are boring (auguring) and directional drilling.

Tie-Ins

12. The sections of pipelines that have been buried using either the trench or trenchless method are joined together (tied-in).

Cleaning and Testing

13. To complete the construction, the pipeline is cleaned, tested in accordance with Union’s specifications using water.

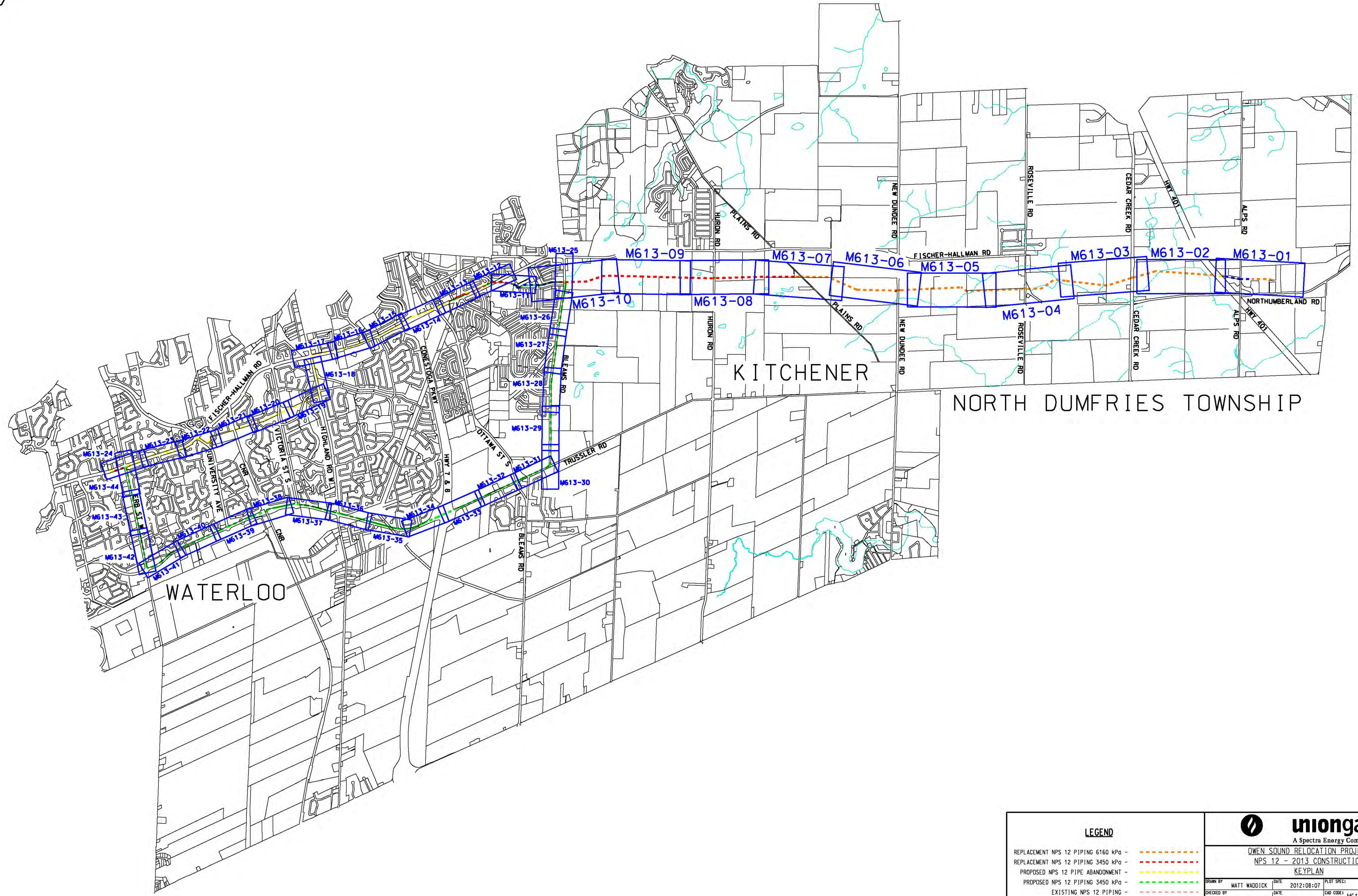
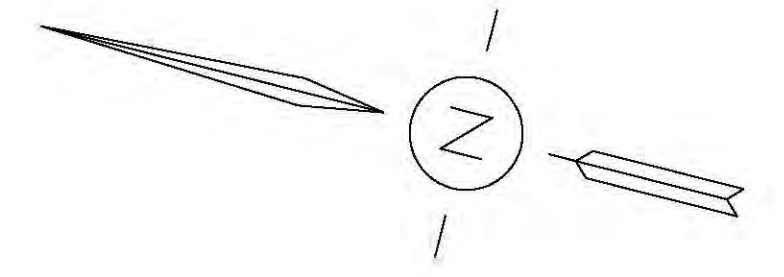
Restoration





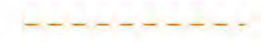
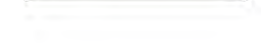


14. The final activity is the restoration. The work area is leveled, the sod is replaced in lawn areas and other grassed areas are re-seeded. Where required, concrete, asphalt and gravel are replaced to return the areas to as close to the original conditions as possible.

**LANDOWNER CONTACTS
 OWEN SOUND NPS12 REPLACEMENT**

	Date
Preliminary:	
Letters announcing the Public Information Session.	July 27, 2012
Newspaper advertisements announcing the Public Information Session.	August 22, 2012
Public Information Session - presentation of preliminary preferred route.	August 2012,
Meetings with specific individual landowners re routing.	November, 2012
Letters announcing the completion of the Environmental Report.	November 2, 2012
Pre-Construction:	
Prior to the filing of the OEB, "Leave to Construct" application, Union Gas notified the affected landowners of the timing of the proposed pipeline.	November 2011, ongoing
Permissions to do surveys (and archaeological testing, as required), will be requested from the affected landowners.	October 2012
Negotiations with landowners for easements and temporary easements.	November 2012, Ongoing
OEB "Leave to Construct" Application.	Spring, 2012
If required, negotiations with landowners for easements and temporary easements will continue, utilizing documents prepared based upon recent settlements.	After OEB "Leave to Construct" Hearing to Commencement of Construction
If required, the process of expropriation will be commenced and completed, in order to meet the construction timetable.	After OEB "Leave to Construct" Hearing to Commencement of Construction
A Project Engineer and a Lands Relations Agent will attempt to meet with each landowner along the route prior to the commencement of construction.	
Construction:	
Contacts during pipeline construction by Union's Landowner Relations Agent, Inspectors, and Contractor will occur. Name(s) and phone number(s) of field contact personnel will be made available should concerns arise.	
Each landowner will be requested to review and sign a Clean-up Acknowledgement form which releases the Contractor and allows him/her to be paid for the work on the property. Union will maintain responsibility for any future damages arising from construction.	
Post-Construction:	
Union's Lands Department will settle any damages caused by construction, not already covered by payments previously made.	
Union's Engineering staff will review each property the following spring after construction and perform any required repairs.	
Contact with Union's Operations personnel will be ongoing through line surveys and regular maintenance activities.	

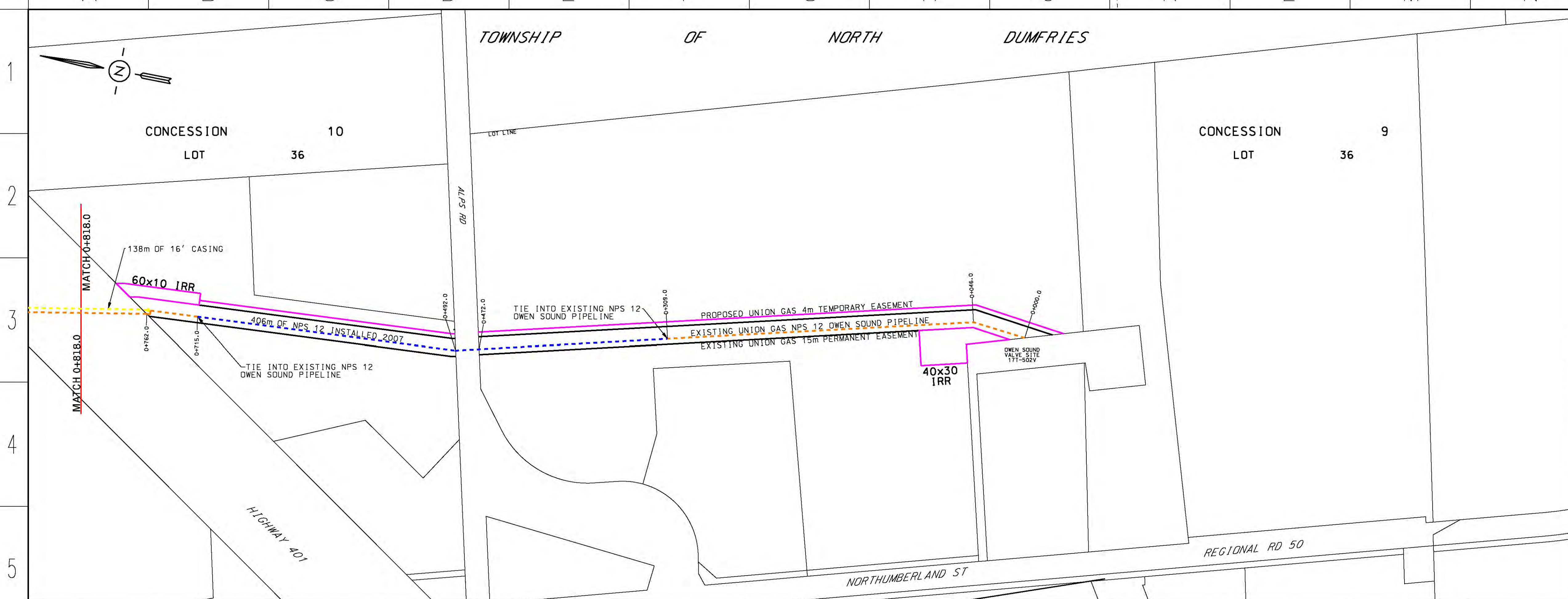
OWEN SOUND RELOCATION PROJECT 2013 CONSTRUCTION KEYMAP



LEGEND		 uniongas A Spectra Energy Company	
REPLACEMENT NPS 12 PIPING 6160 kPa -		OWEN SOUND RELOCATION PROJECT NPS 12 - 2013 CONSTRUCTION KEYPLAN	
REPLACEMENT NPS 12 PIPING 3450 kPa -		DRAWN BY: MATT WADDICK	DATE: 2012:08:07
PROPOSED NPS 12 PIPE ABANDONMENT -		DATE: 2012:08:07	FILE REVISION DATE: 2012:08:07
PROPOSED NPS 12 PIPING 3450 kPa -		DATE: 2012:08:07	FILE REVISION DATE: 2012:08:07
EXISTING NPS 12 PIPING -		DATE: 2012:08:07	FILE REVISION DATE: 2012:08:07
EXISTING GAS PIPELINE -		DATE: 2012:08:07	FILE REVISION DATE: 2012:08:07
PROPERTY LINES -		DATE: 2012:08:07	FILE REVISION DATE: 2012:08:07

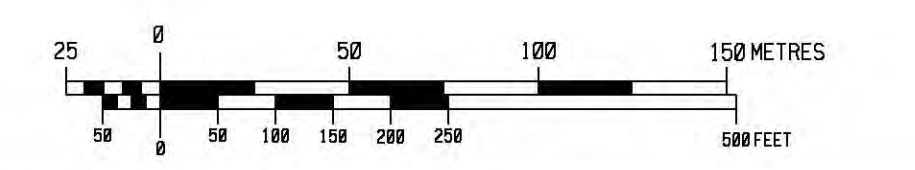
M613-KEYPLAN

TOWNSHIP OF NORTH DUMFRIES



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Red dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Blue dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Black dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Pink solid line]
- TEMPORARY LAND USE AREA - [Magenta solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160 kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE:

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
				FOR INFORMATION ONLY
				PRELIMINARY
				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

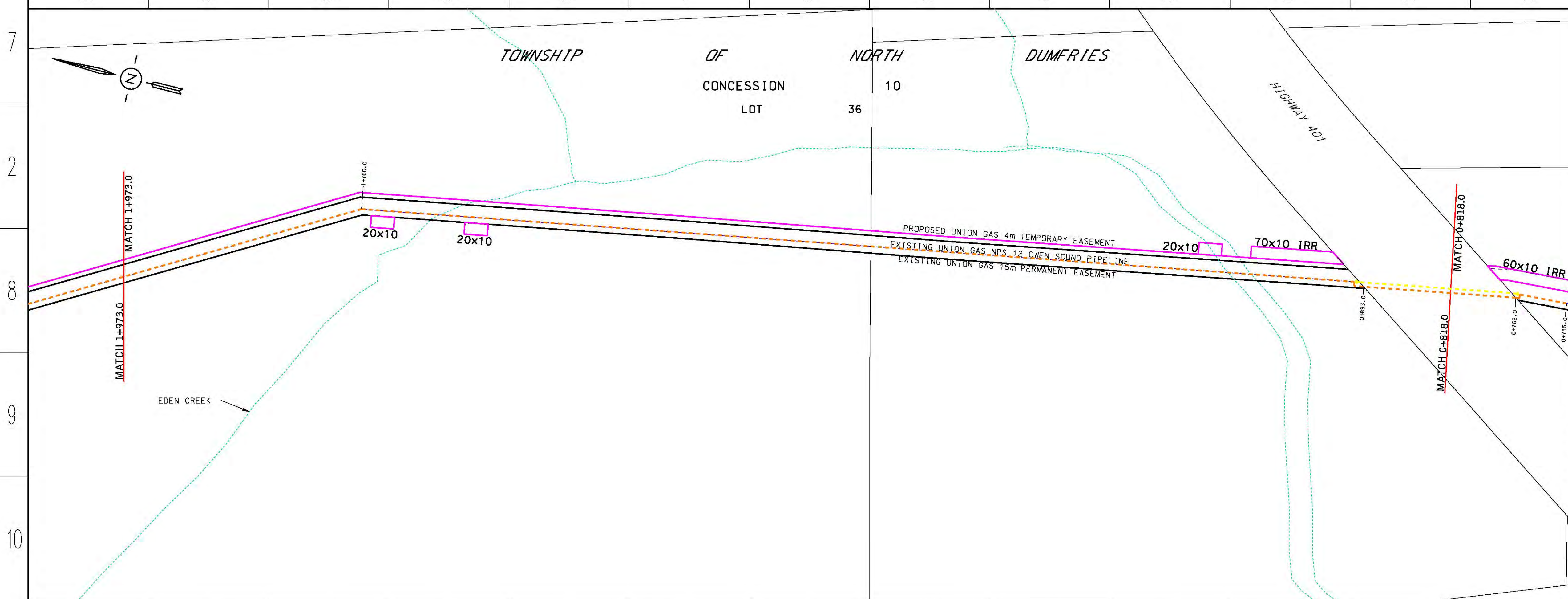
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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

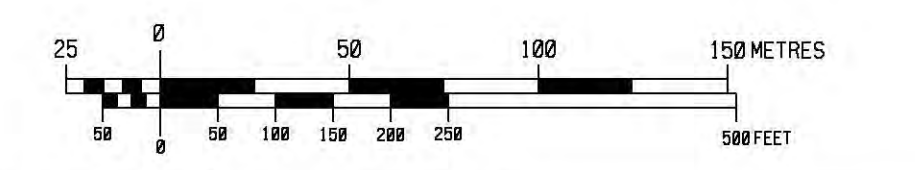
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TOWNSHIP OF NORTH DUMFRIES



LEGEND

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- REPLACEMENT NPS 12 PIPING 3450 kPa - [Blue dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Black dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Pink solid line]
- TEMPORARY LAND USE AREA - [Magenta solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]



DESIGN PARAMETERS (NEW PIPING ONLY)

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 - TEST DATE:

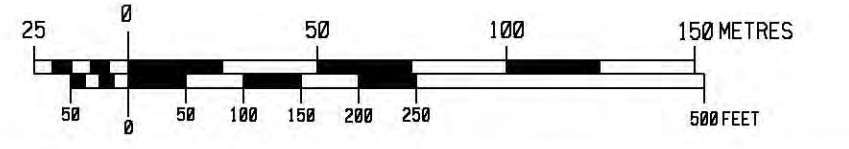
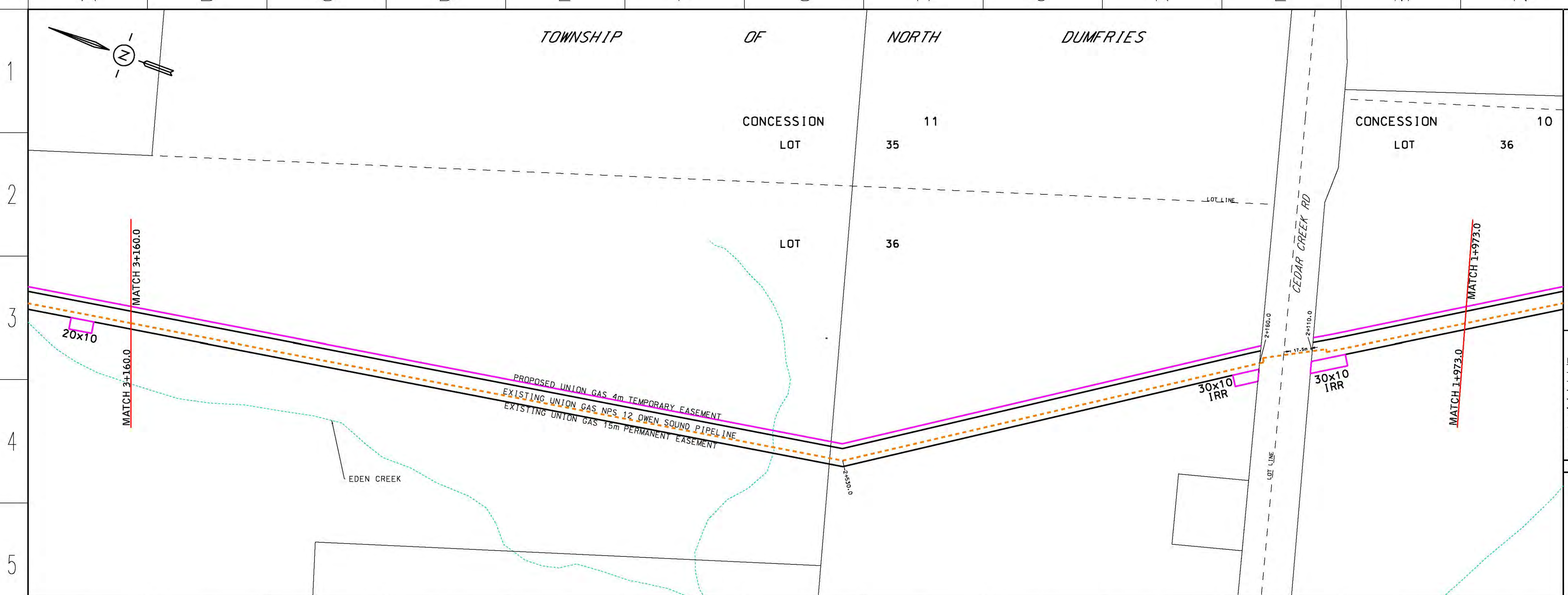
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ENGINEER: ENGINEER

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

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DESIGN PARAMETERS (NEW PIPING ONLY)

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TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE:

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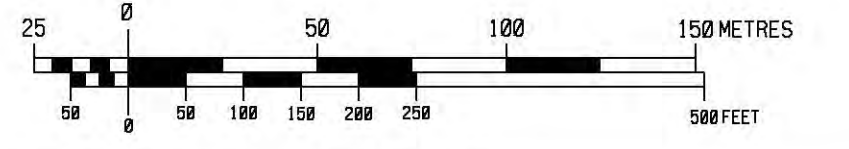
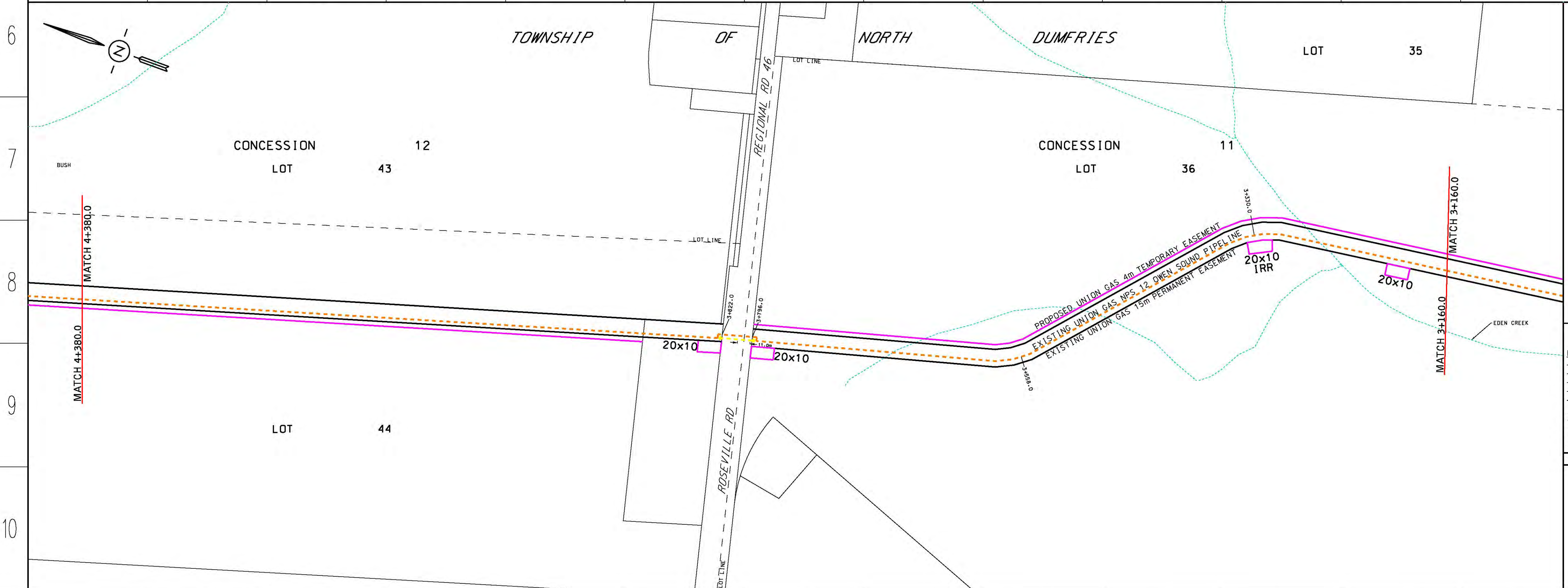
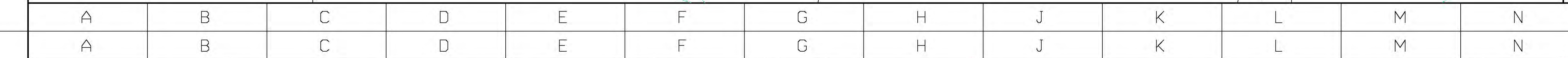
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NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

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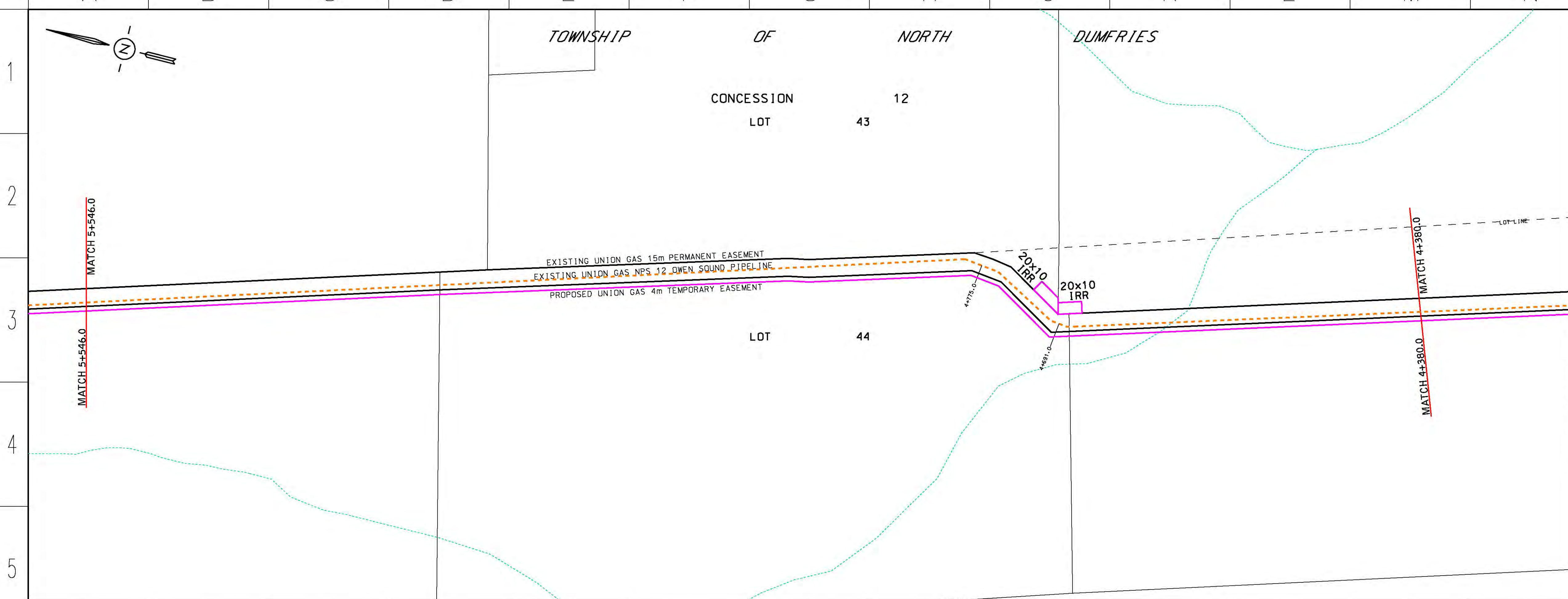
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NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

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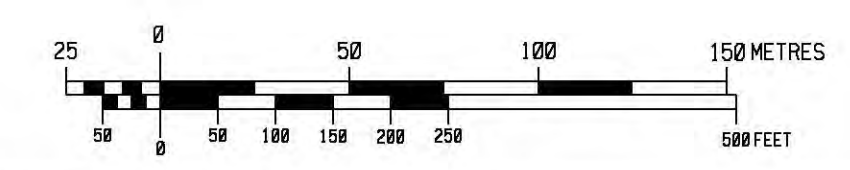
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- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
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- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Grey solid line]
- LOT LINES - [Black dashed line]



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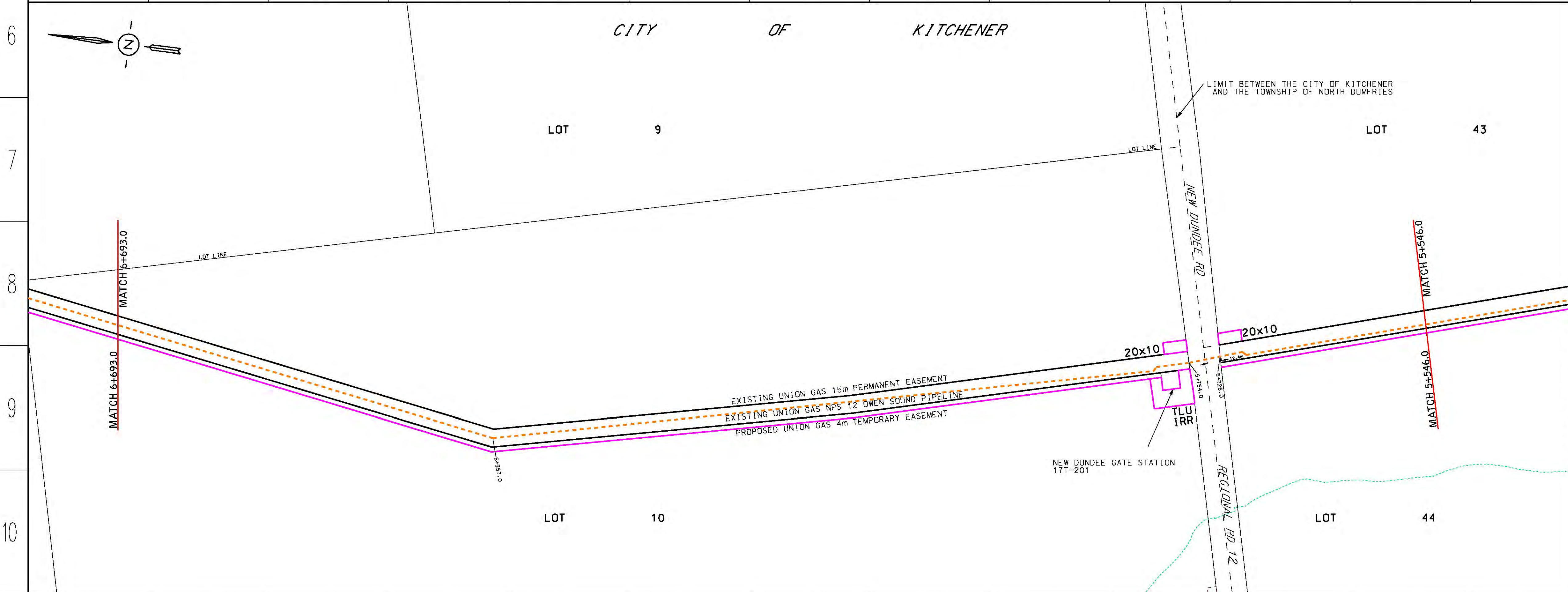
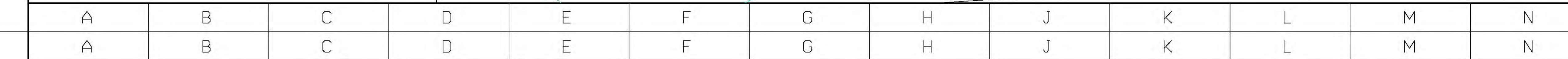
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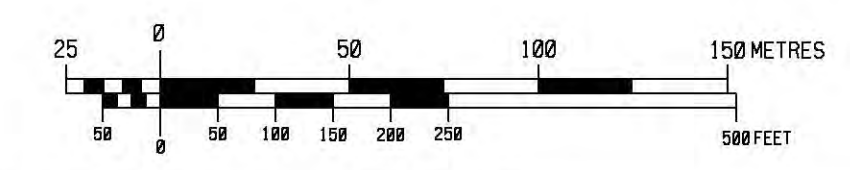
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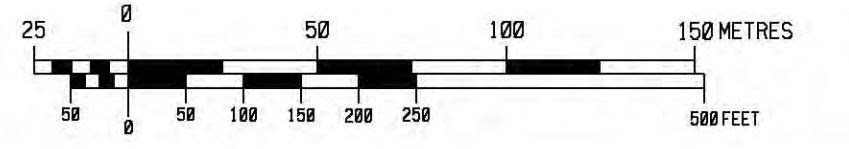
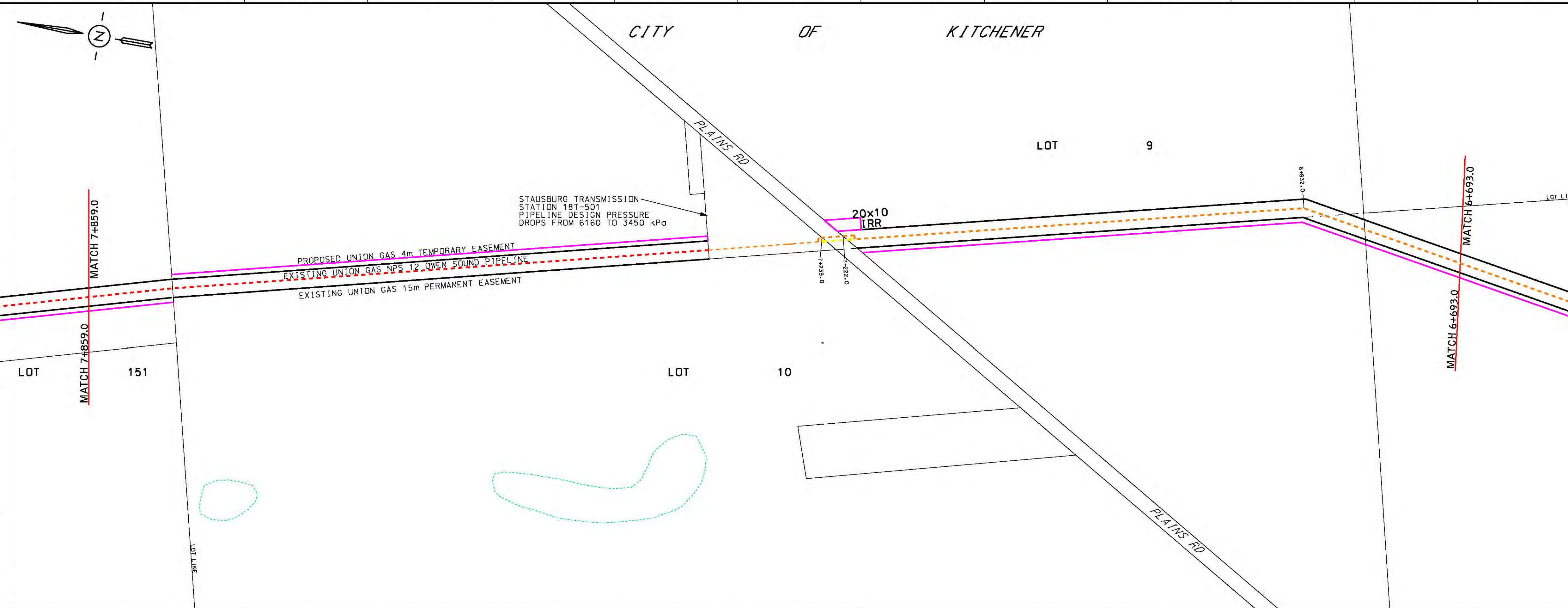
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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
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CITY OF KITCHENER



DESIGN PARAMETERS (NEW PIPING ONLY)

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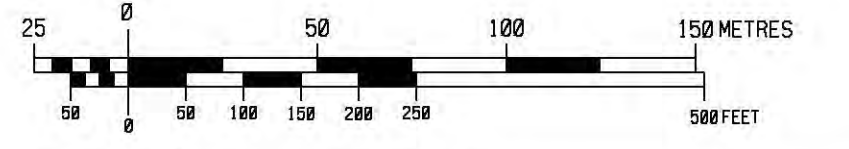
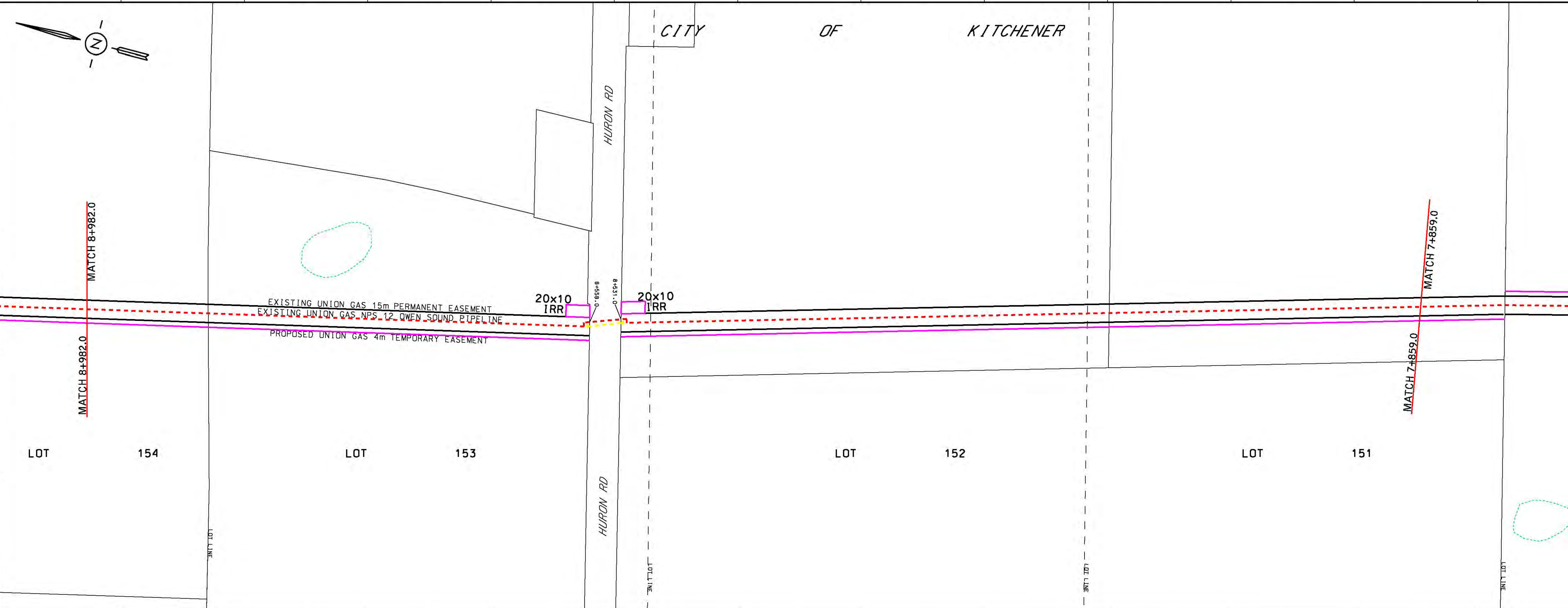
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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

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CITY OF KITCHENER



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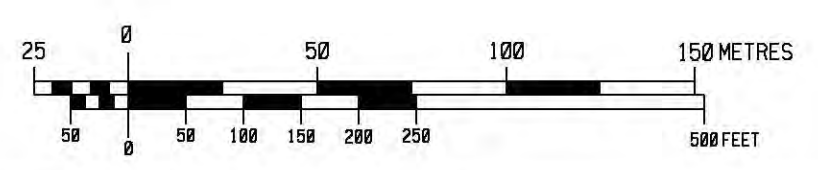
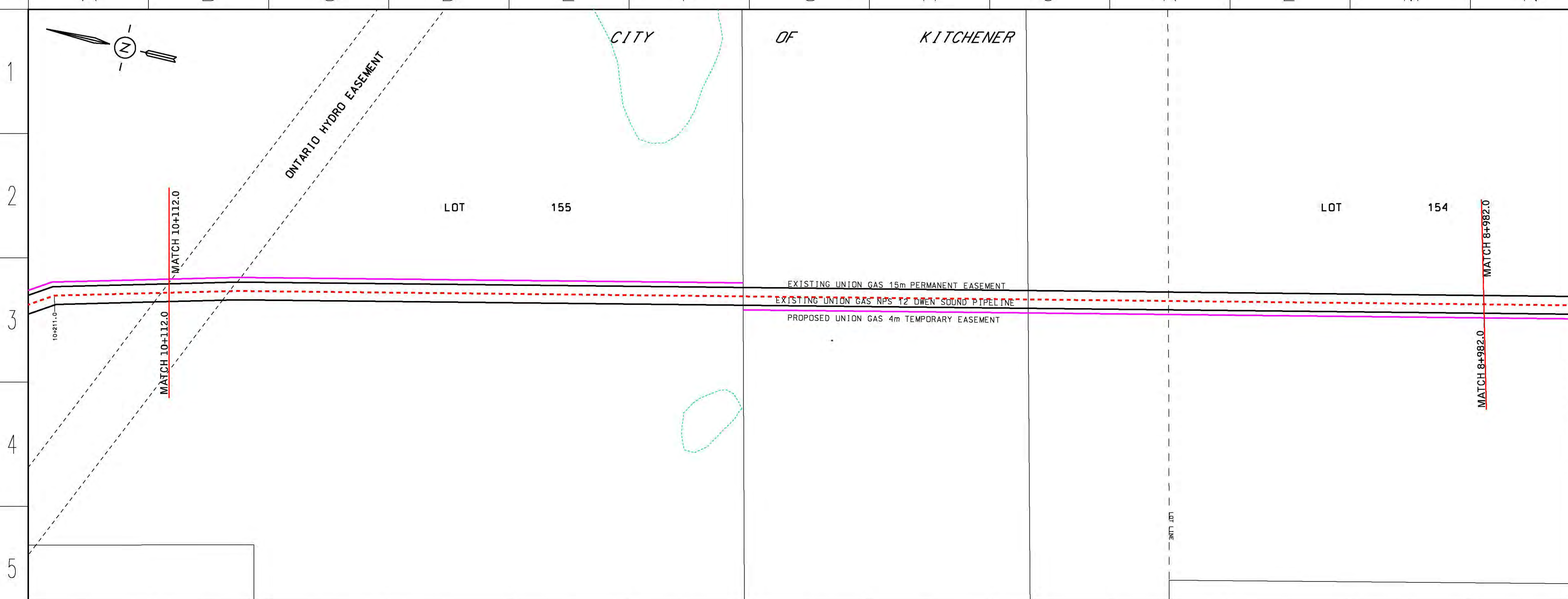
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				PRELIMINARY
				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

ENGINEER: ENGINEER

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY: MATT MADDOCK	DATE: 2012-08-07	PLOT SPEC: 1/2000
CHECKED BY:	DATE:	CAD CODE: M613-08.dgn
APPROVED BY:	DATE:	FILE REVISION DATE: 2012:00:00
SIZE:	SHEET:	DRAWING No. M613-08



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160 kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE:

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
				FOR INFORMATION ONLY
				PRELIMINARY
				ISSUED FOR BID
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				AS BUILT
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

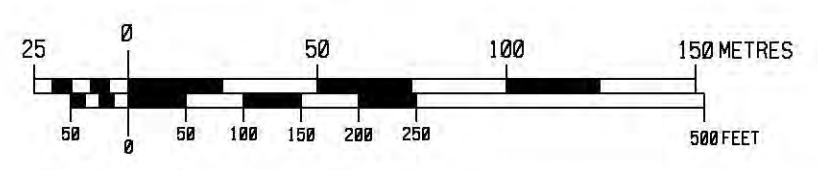
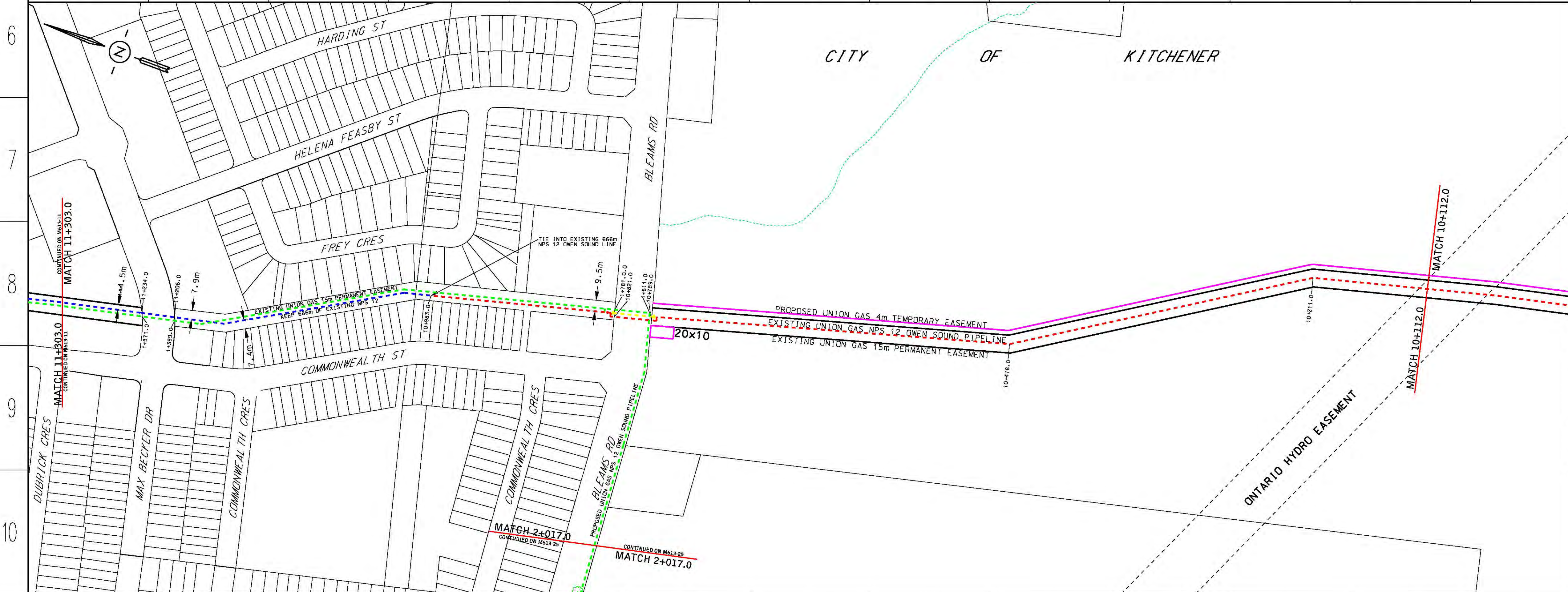
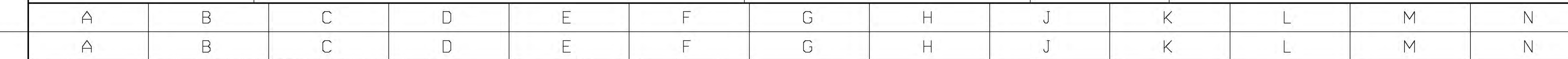
ENGINEER: ENGINEER

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY	MATT WADDICK	DATE	2012:08:07	PLT SPEC	1/2000
CHECKED BY		DATE		CAD CODE	M613-09.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00

SIZE: SHEET: DRAWING No. M613-09



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160 kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE:

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
				FOR INFORMATION ONLY
				PRELIMINARY
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APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

ENGINEER: ENGINEER

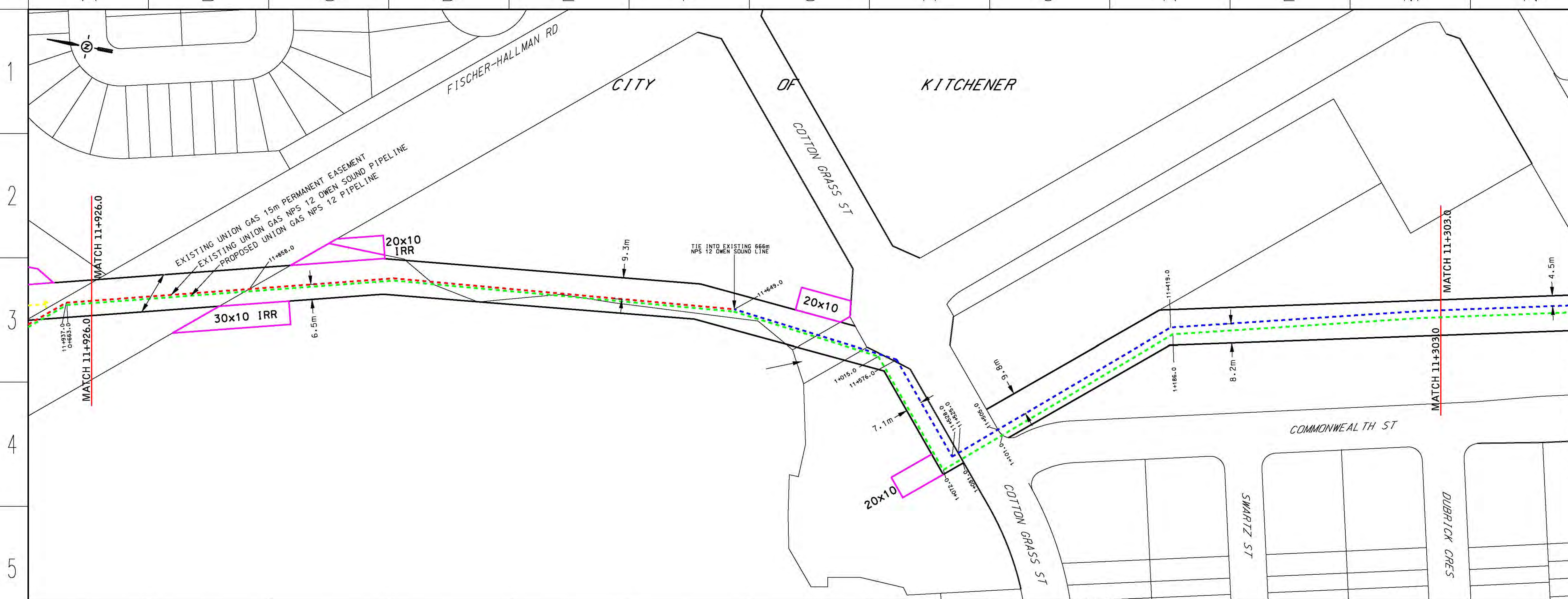
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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

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CHECKED BY		DATE		CAD CODE	M613-10.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00

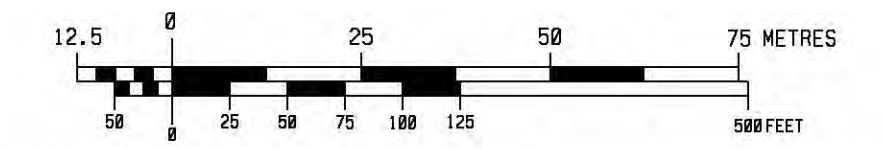
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LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Red dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Blue dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Black dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Pink solid line]
- TEMPORARY LAND USE AREA - [Magenta solid line]
- PROPERTY LINES - [Thin black solid line]
- LOT LINES - [Thin grey dashed line]



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN

- DESIGNED TO CSA Z662-07
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6160 kPa

TEST PRESSURE

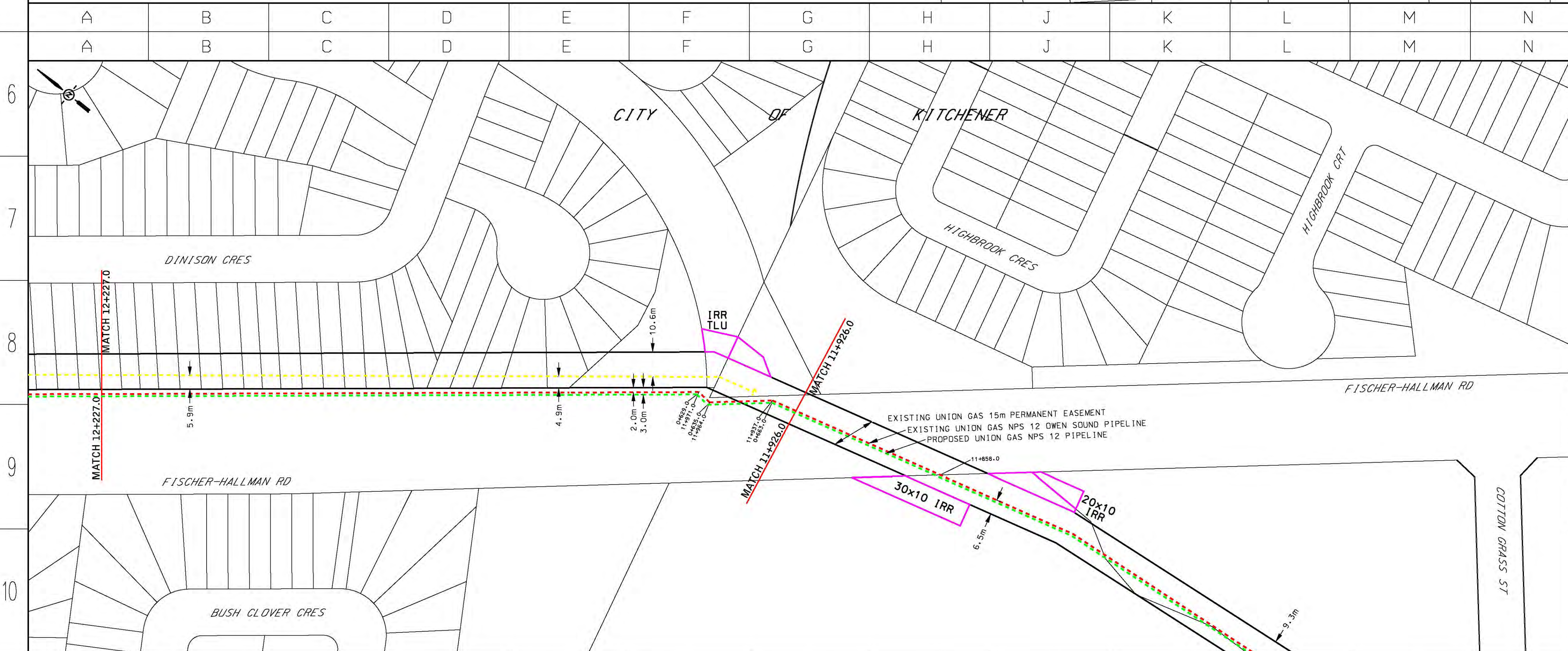
- MINIMUM - 8624 kPa
- MAXIMUM - 9240 kPa
- TEST DATE: _____

ENGINEER: _____ ENGINEER

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
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				AS BUILT BY: _____
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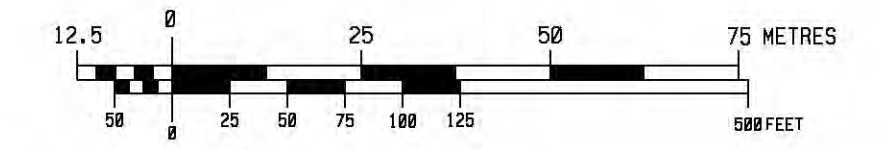
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 OWEN SOUND RELOCATION PROJECT
 NPS 12 - 2013 CONSTRUCTION
 ALIGNMENT DRAWINGS

DRAWN BY: MATT MADDOCK	DATE: 2012-08-13	PLOT SPEC: 1/1000
CHECKED BY:	DATE:	CAD CODE: M613-11.dgn
APPROVED BY:	DATE:	FILE REVISION DATE: 2012:00:00
SIZE:	SHEET:	DRAWING No: M613-11



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Red dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Blue dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Black dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Pink solid line]
- TEMPORARY LAND USE AREA - [Magenta solid line]
- PROPERTY LINES - [Thin black solid line]
- LOT LINES - [Thin grey dashed line]



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN

- DESIGNED TO CSA Z662-07
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6160 kPa

TEST PRESSURE

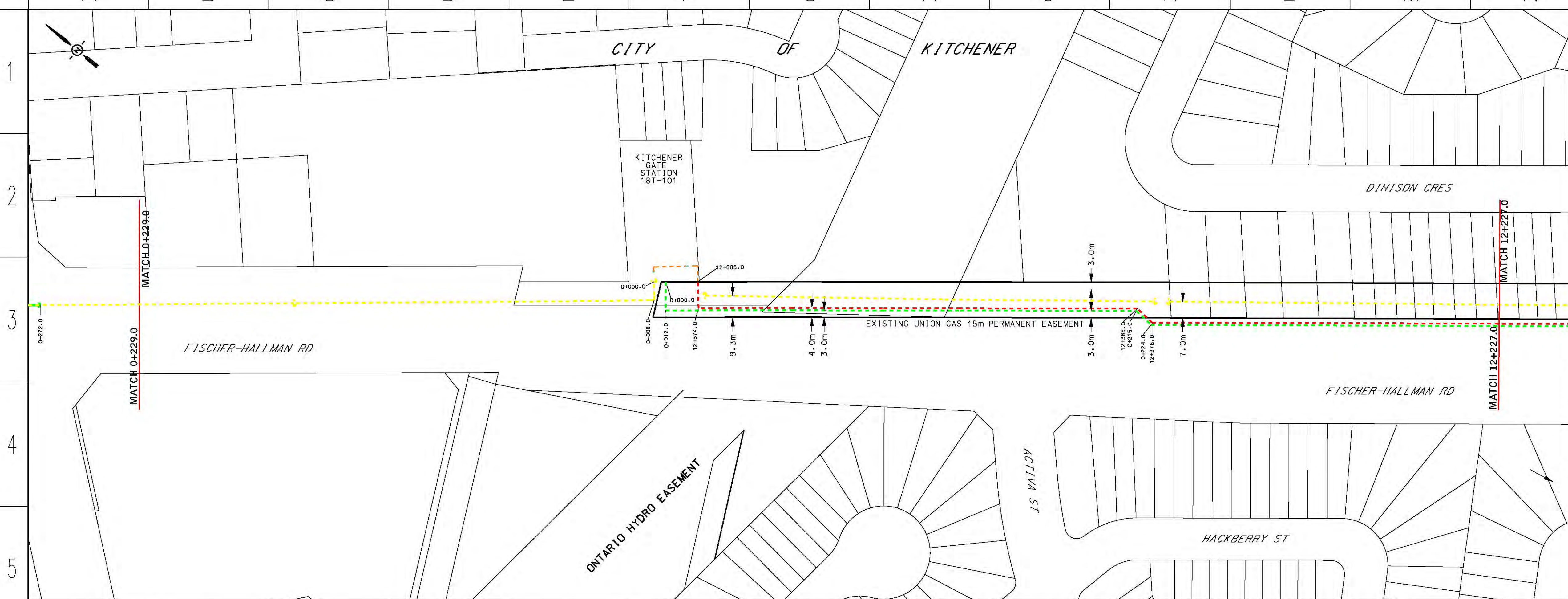
- MINIMUM - 8624 kPa
- MAXIMUM - 9240 kPa
- TEST DATE: _____

ENGINEER: _____ ENGINEER

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
				FOR INFORMATION ONLY
				PRELIMINARY
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				ISSUED FOR CONSTRUCTION
				AS BUILT
				AS BUILT BY: _____
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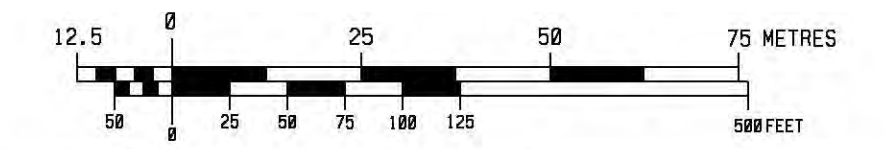
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 OWEN SOUND RELOCATION PROJECT
 NPS 12 - 2013 CONSTRUCTION
 ALIGNMENT DRAWINGS

DRAWN BY: MATT MADDOCK	DATE: 2012-08-13	PLOT SPEC: 1/1000
CHECKED BY:	DATE:	CAD CODE: M613-12.dgn
APPROVED BY:	DATE:	FILE REVISION DATE: 2012:00:00
SIZE:	SHEET:	DRAWING No: M613-12



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Red dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Blue dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Black dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN

- DESIGNED TO CSA Z662-07
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6160kPa

TEST PRESSURE

- MINIMUM - 8624 kPa
- MAXIMUM - 9240 kPa
- TEST DATE: _____

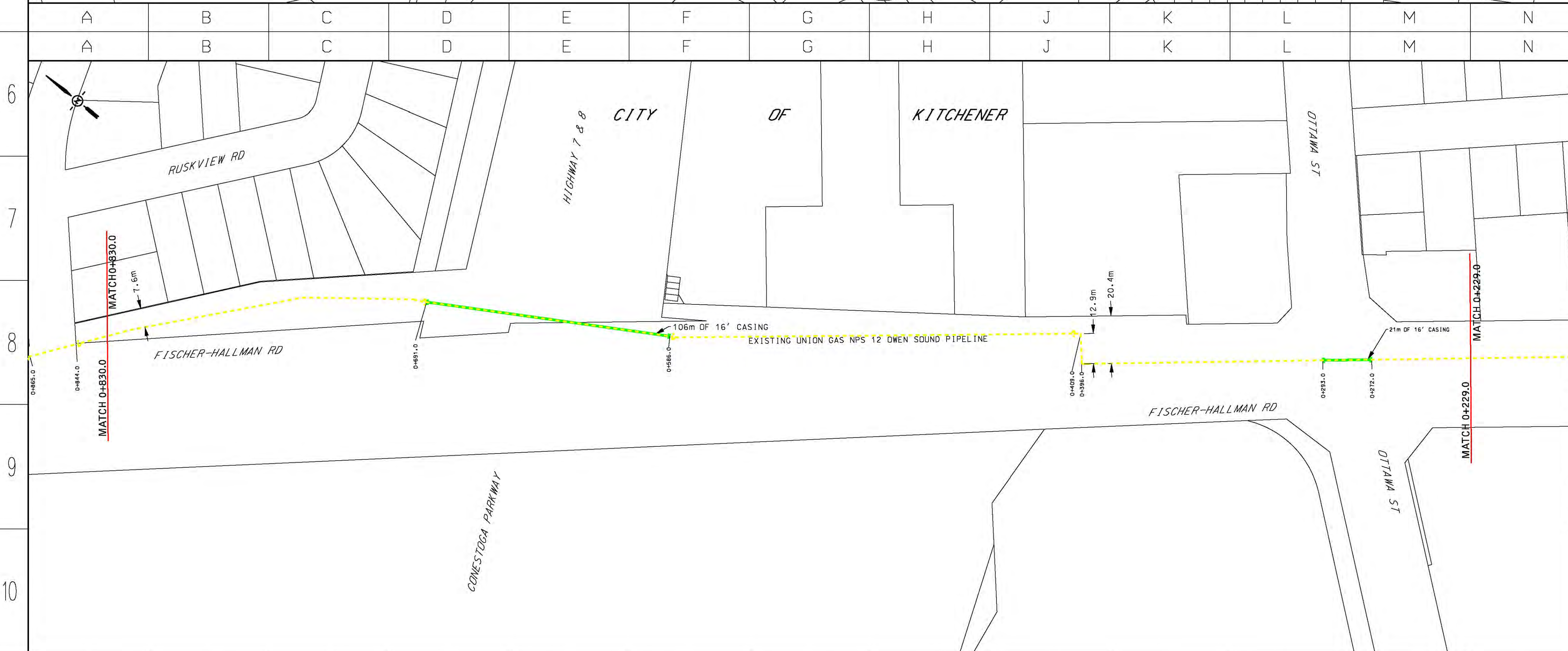
ENGINEER: _____ ENGINEER

No.	DATE	BY	APP'D	REMARKS
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				AS BUILT
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

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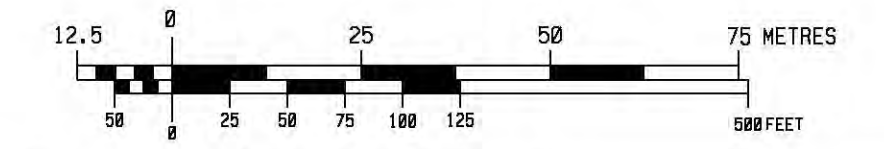
OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRWN BY	MATT MADDOCK	DATE	2012:08:14	PLT SPEC	1/1000
CHEK BY		DATE		CAD CODE	M613-13.dgn
APPR BY		DATE		FILE REVISION DATE	2012:00:00
SIZE	SHEET	DRAWING No.	M613-13		



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Red dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Blue dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Black dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN

- DESIGNED TO CSA Z662-07
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6160kPa

TEST PRESSURE

- MINIMUM - 8624 kPa
- MAXIMUM - 9240 kPa
- TEST DATE: _____

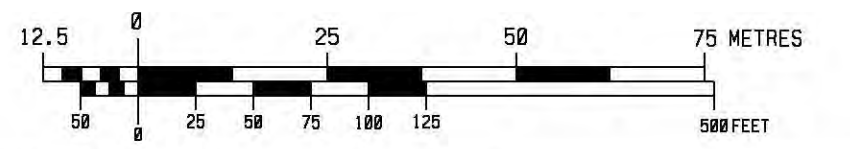
ENGINEER: _____ ENGINEER

No.	DATE	BY	APP'D	REMARKS
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				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
				AS BUILT
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRWN BY	MATT MADDOCK	DATE	2012:08:14	PLT SPEC	1/1000
CHEK BY		DATE		CAD CODE	M613-14.dgn
APPR BY		DATE		FILE REVISION DATE	2012:00:00
SIZE	SHEET	DRAWING No.	M613-14		



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Red dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Blue dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Black dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Pink solid line]
- TEMPORARY LAND USE AREA - [Magenta solid line]
- PROPERTY LINES - [Thin black solid line]
- LOT LINES - [Thin grey dashed line]

DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN

- DESIGNED TO CSA Z662-07
- DESIGN FACTOR - 0.8
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- DESIGN TEMPERATURE - M5C
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TEST PRESSURE

- MINIMUM - 8624 kPa
- MAXIMUM - 9240 kPa
- TEST DATE: _____

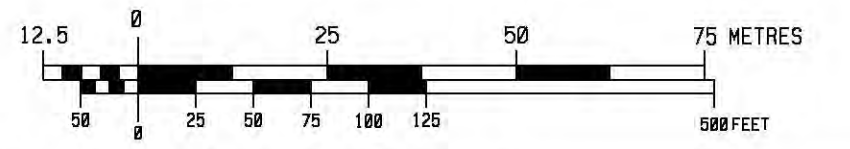
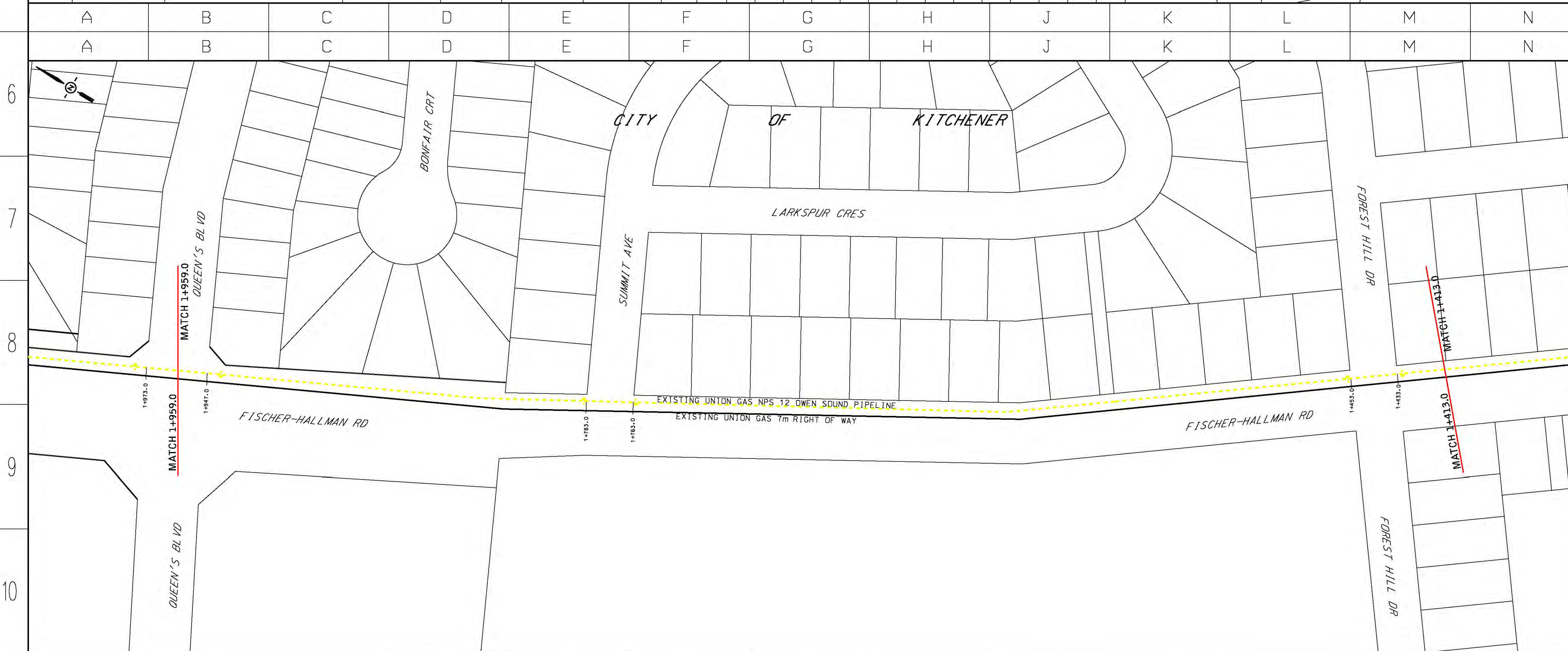
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No.	DATE	BY	APP'D	REMARKS
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				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY	MATT MADDOCK	DATE	2012:08:14	PLOT SPEC	1/1000
CHECKED BY		DATE		CAD CODE	M613-15.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00
SIZE	SHEET	DRAWING No.	M613-15		



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Red dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Blue dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Black dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Pink solid line]
- TEMPORARY LAND USE AREA - [Magenta solid line]
- PROPERTY LINES - [Thin black solid line]
- LOT LINES - [Thin grey dashed line]

DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN

- DESIGNED TO CSA Z662-07
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6160kPa

TEST PRESSURE

- MINIMUM - 8624 kPa
- MAXIMUM - 9240 kPa
- TEST DATE: _____

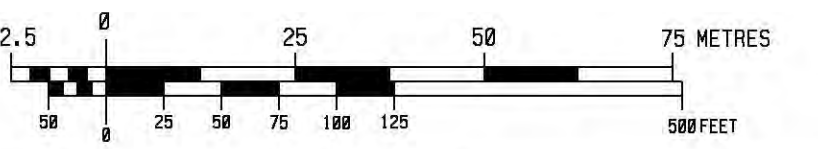
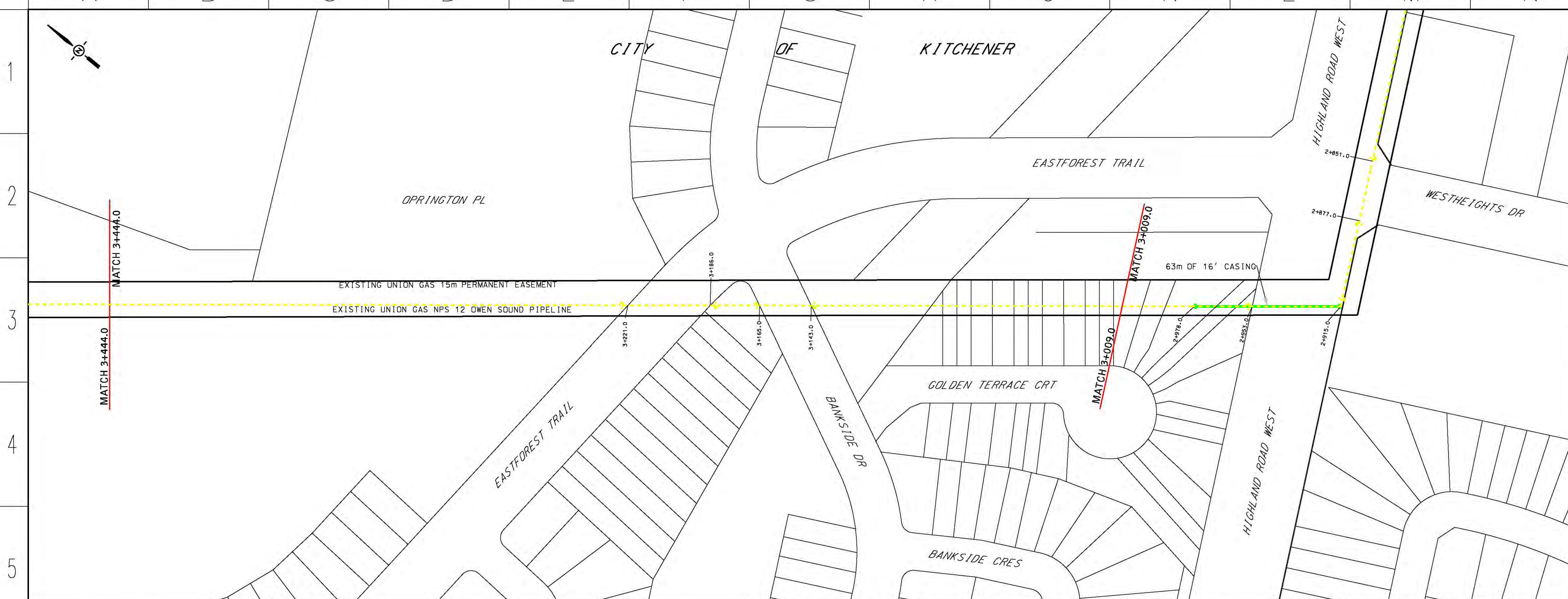
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No.	DATE	BY	APP'D	REMARKS
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APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY	MATT MADDOCK	DATE	2012:08:14	PLOT SPEC	1/1000
CHECKED BY		DATE		CAD CODE	M613-16.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00
SIZE	SHEET	DRAWING No.	M613-16		



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE:

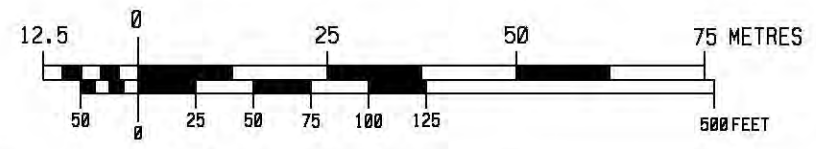
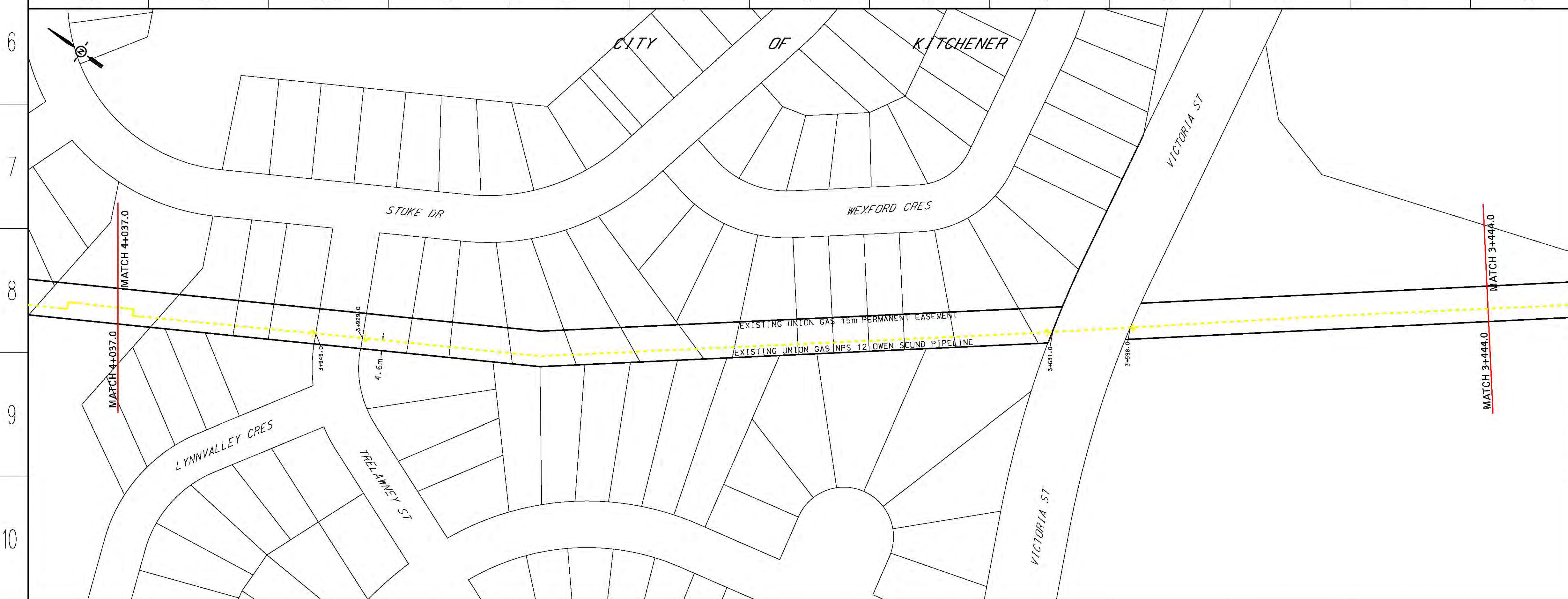
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APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

ENGINEER: ENGINEER



**OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS**

DRWN BY	MATT WADDICK	DATE	2012:08:14	PLT SPEC	1/1000
CHECKED BY		DATE		CAD CODE	M613-19.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00
SIZE	SHEET	DRAWING No.	M613-19		



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE:

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
				FOR INFORMATION ONLY
				PRELIMINARY
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APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

ENGINEER: ENGINEER



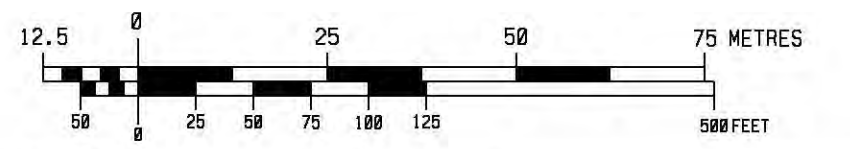
**OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS**

DRWN BY	MATT WADDICK	DATE	2012:08:14	PLT SPEC	1/1000
CHECKED BY		DATE		CAD CODE	M613-20.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00
SIZE	SHEET	DRAWING No.	M613-20		



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Red dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Blue dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Black dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE:

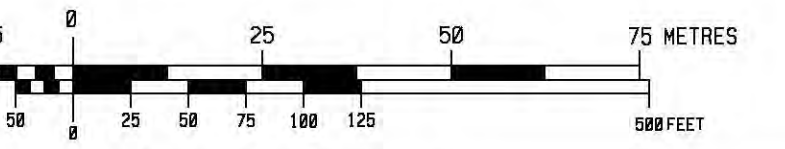
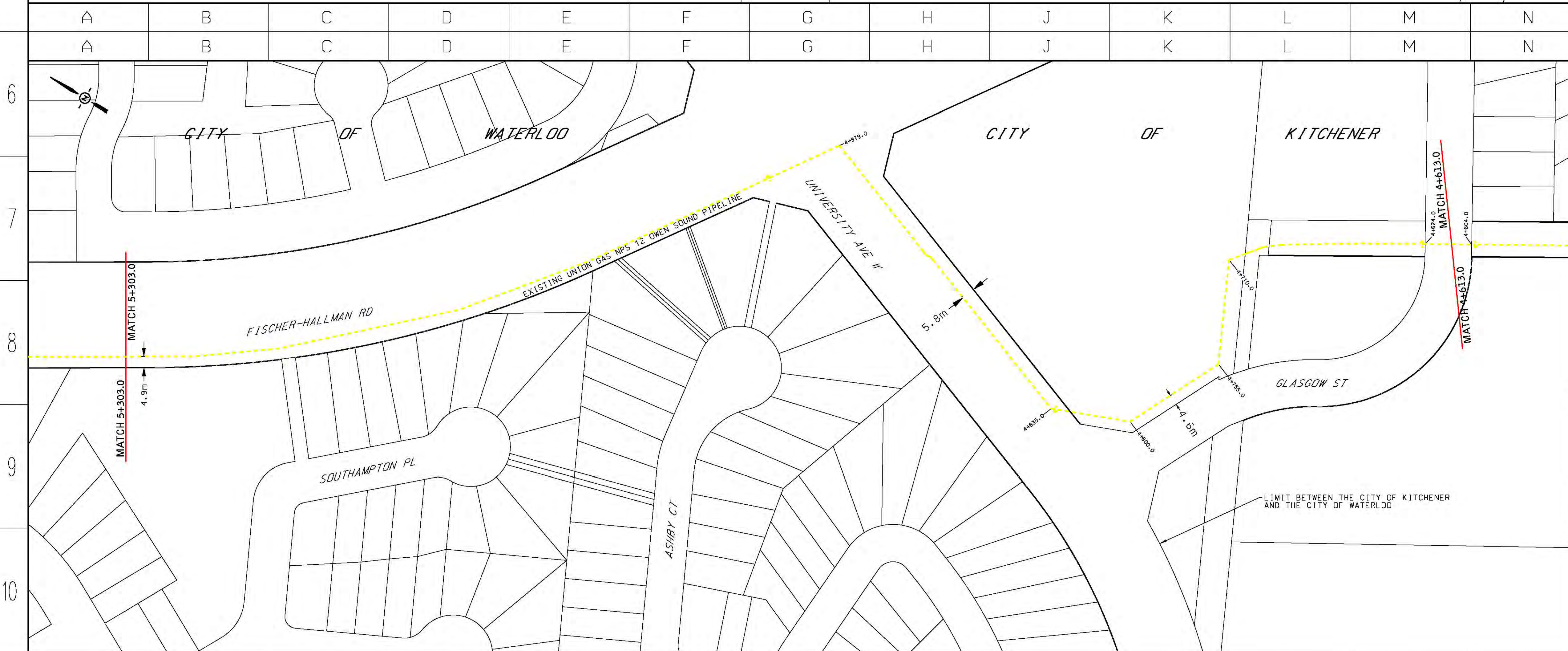
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APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

ENGINEER: ENGINEER



OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY: MATT WADDICK	DATE: 2012:08:15	PLOT SPEC: 1/1000
CHECKED BY:	DATE:	CAD CODE: M613-21.dgn
APPROVED BY:	DATE:	FILE REVISION DATE: 2012:00:00
SIZE:	SHEET:	DRAWING No: M613-21



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE:

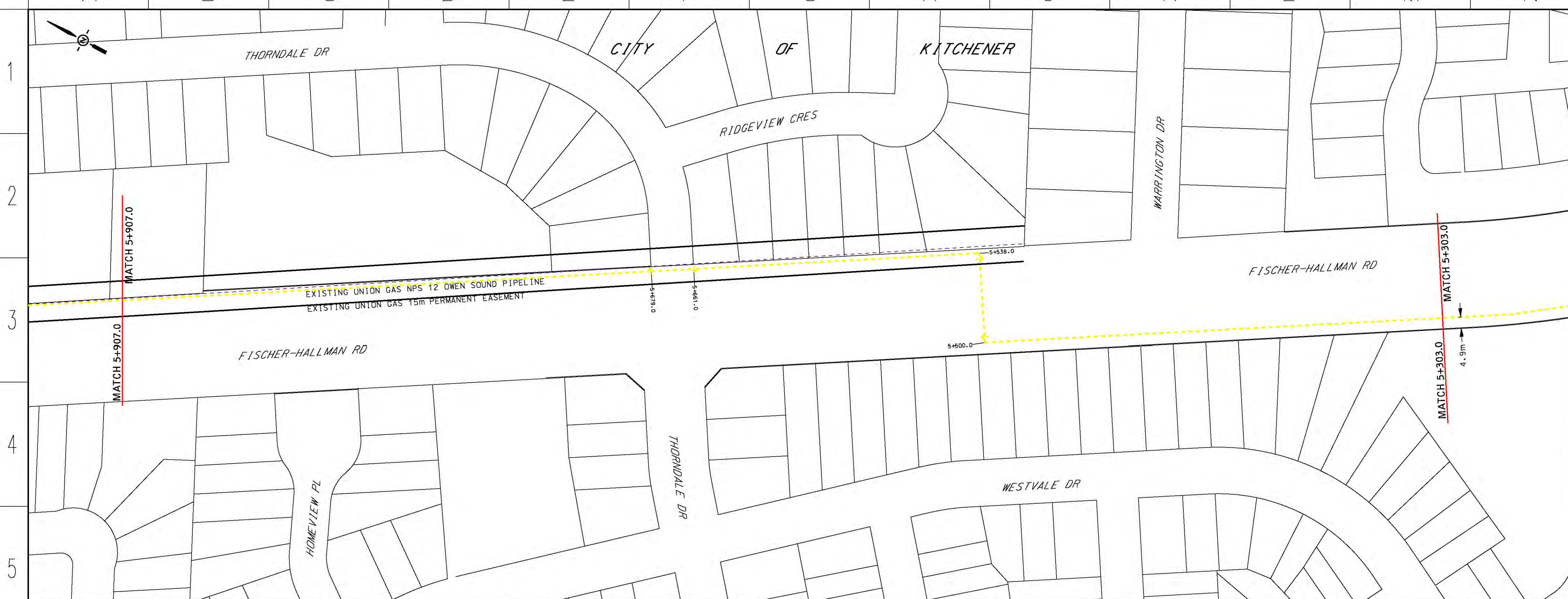
No.	DATE	BY	APP'D	REMARKS
REVISIONS				
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				PRELIMINARY
				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

ENGINEER: ENGINEER



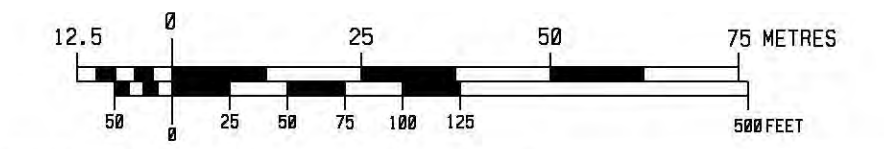
OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY: MATT WADDICK	DATE: 2012:08:15	PLOT SPEC: 1/1000
CHECKED BY:	DATE:	CAD CODE: M613-22.dgn
APPROVED BY:	DATE:	FILE REVISION DATE: 2012:00:00
SIZE:	SHEET:	DRAWING No: M613-22



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Orange dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Red dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Blue dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Thin black solid line]
- LOT LINES - [Thin grey dashed line]



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE:

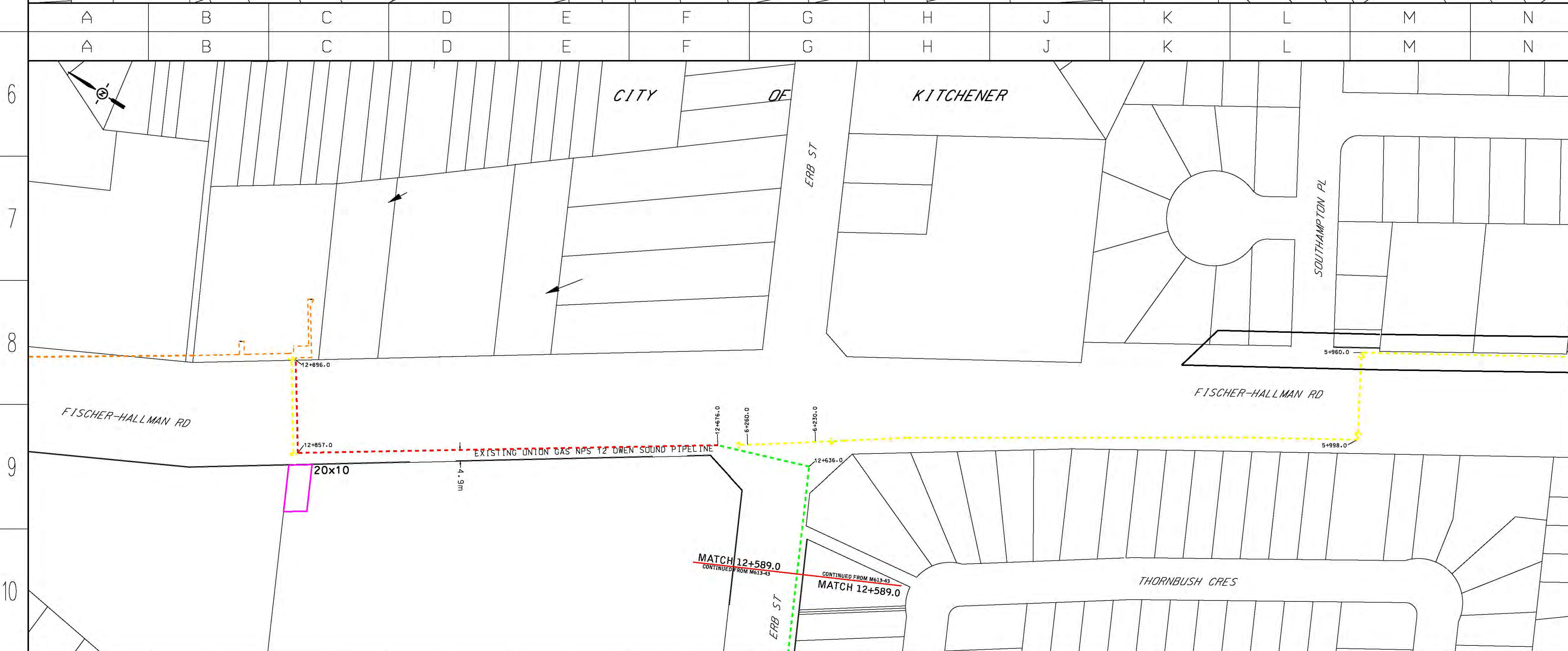
ENGINEER: ENGINEER

No.	DATE	BY	APP'D	REMARKS
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				PRELIMINARY
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APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

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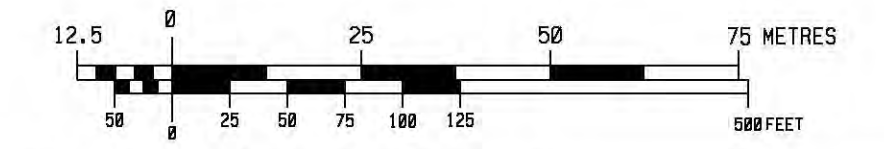
OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRWN BY: MATT MADDOCK	DATE: 2012:08:15	PLOT SPEC: 1/1000
CHECKED BY:	DATE:	CAD CODE: M613-23.dgn
APPROVED BY:	DATE:	FILE REVISION DATE: 2012:00:00
SIZE:	SHEET:	DRAWING No.: M613-23



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Orange dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Red dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Blue dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Thin black solid line]
- LOT LINES - [Thin grey dashed line]



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE:

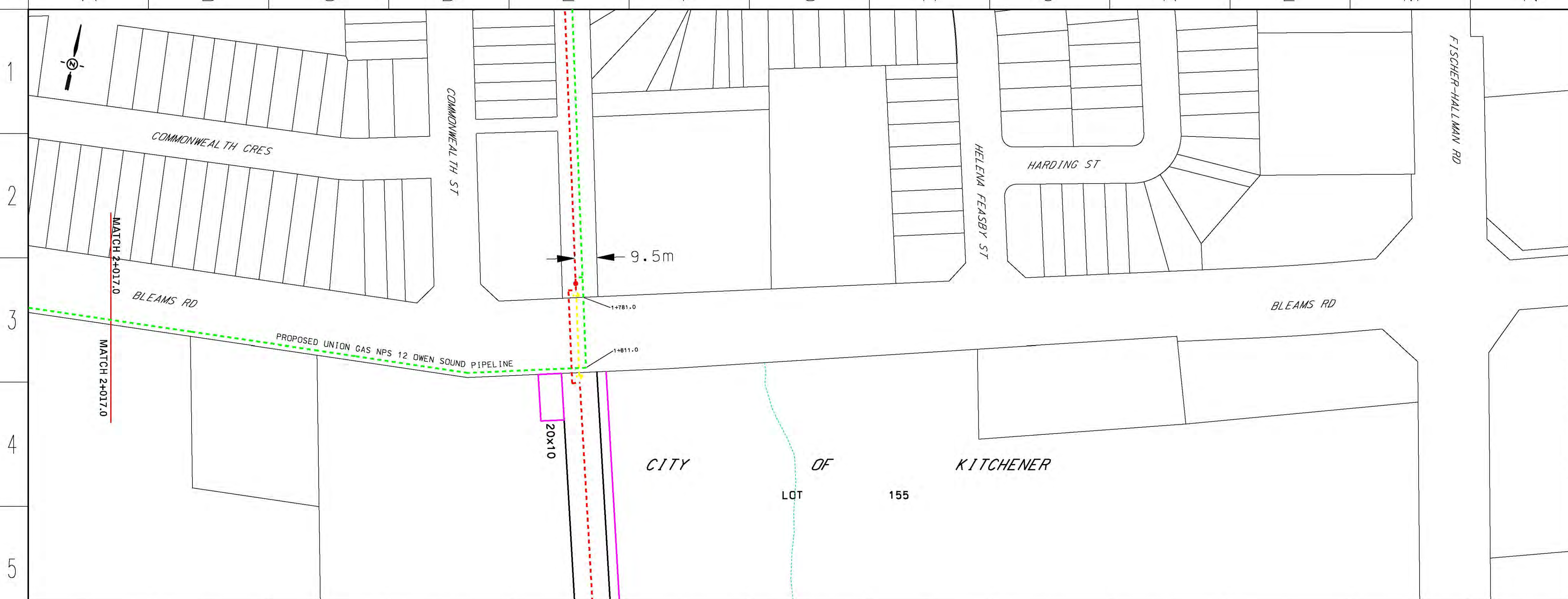
ENGINEER: ENGINEER

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
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				PRELIMINARY
				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRWN BY: MATT MADDOCK	DATE: 2012:08:15	PLOT SPEC: 1/1000
CHECKED BY:	DATE:	CAD CODE: M613-24.dgn
APPROVED BY:	DATE:	FILE REVISION DATE: 2012:00:00
SIZE:	SHEET:	DRAWING No.: M613-24



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Red dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Orange dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Blue dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Grey solid line]
- LOT LINES - [Black dashed line]

DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN

- DESIGNED TO CSA Z662-07
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6160kPa

TEST PRESSURE

- MINIMUM - 8624 kPa
- MAXIMUM - 9240 kPa
- TEST DATE: _____

ENGINEER: _____ ENGINEER

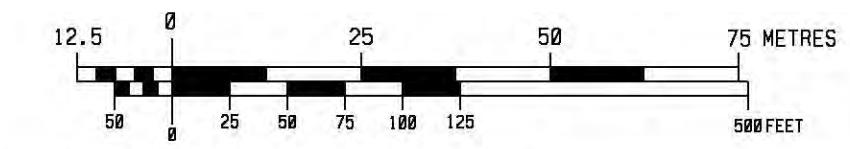
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REVISIONS				
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				ISSUED FOR CONSTRUCTION
				AS BUILT
				AS BUILT BY: _____
				CHECKED BY: _____

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY: MATT MADDICK	DATE: 2012-08-17	PLOT SPEC: 1/1000
CHECKED BY: _____	DATE: _____	CAD CODE: M613-25.dgn
APPROVED BY: _____	DATE: _____	FILE REVISION DATE: 2012:00:00

SIZE: _____ SHEET: _____ DRAWING No.: M613-25



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Red dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Orange dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Blue dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Grey solid line]
- LOT LINES - [Black dashed line]

DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN

- DESIGNED TO CSA Z662-07
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6160kPa

TEST PRESSURE

- MINIMUM - 8624 kPa
- MAXIMUM - 9240 kPa
- TEST DATE: _____

ENGINEER: _____ ENGINEER

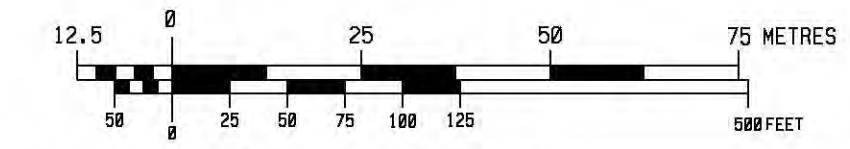
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REVISIONS				
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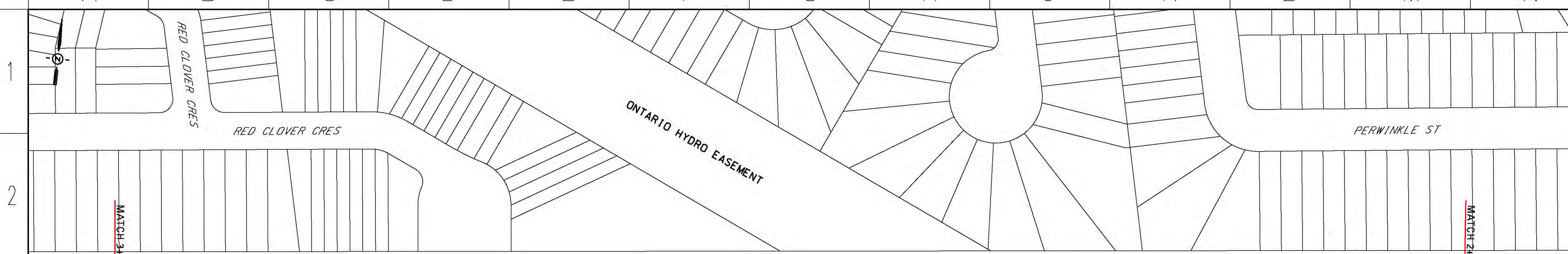
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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY: MATT MADDICK	DATE: 2012-08-17	PLOT SPEC: 1/1000
CHECKED BY: _____	DATE: _____	CAD CODE: M613-26.dgn
APPROVED BY: _____	DATE: _____	FILE REVISION DATE: 2012:00:00

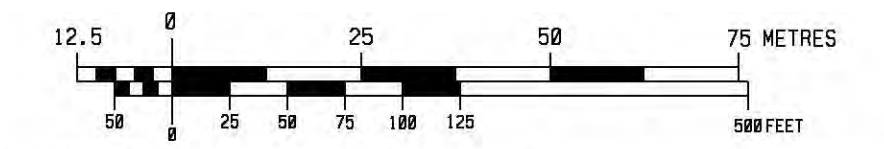
SIZE: _____ SHEET: _____ DRAWING No.: M613-26





LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Orange dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Red dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Blue dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE:

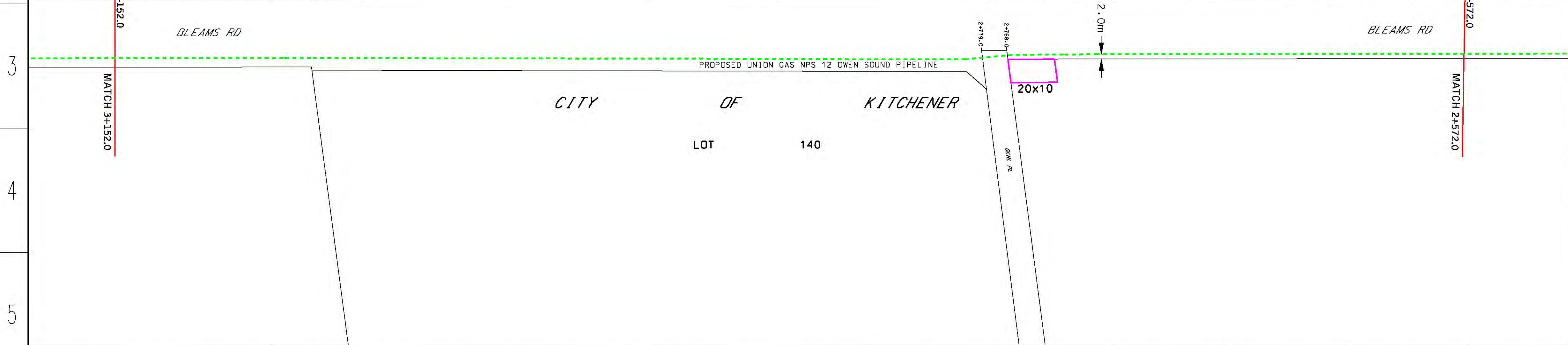
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REVISIONS				
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				PRELIMINARY
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APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

ENGINEER: ENGINEER



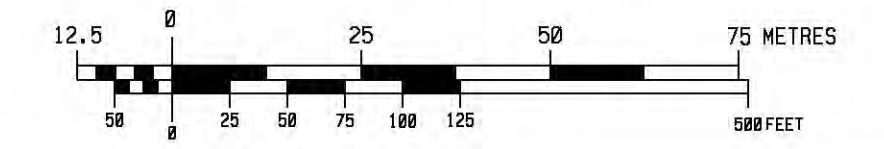
**OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS**

DRAWN BY	MATT MADDOCK	DATE	2012:08:17	PLOT SPEC	1/1000
CHECKED BY		DATE		CAD CODE	M613-27.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00
SIZE	SHEET	DRAWING No.	M613-27		



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Orange dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Red dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Blue dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE:

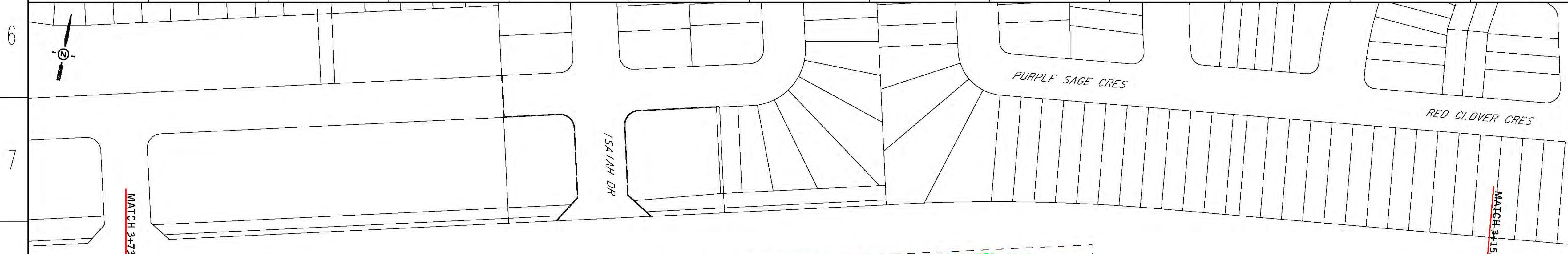
No.	DATE	BY	APP'D	REMARKS
REVISIONS				
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				ISSUED FOR BID
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APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

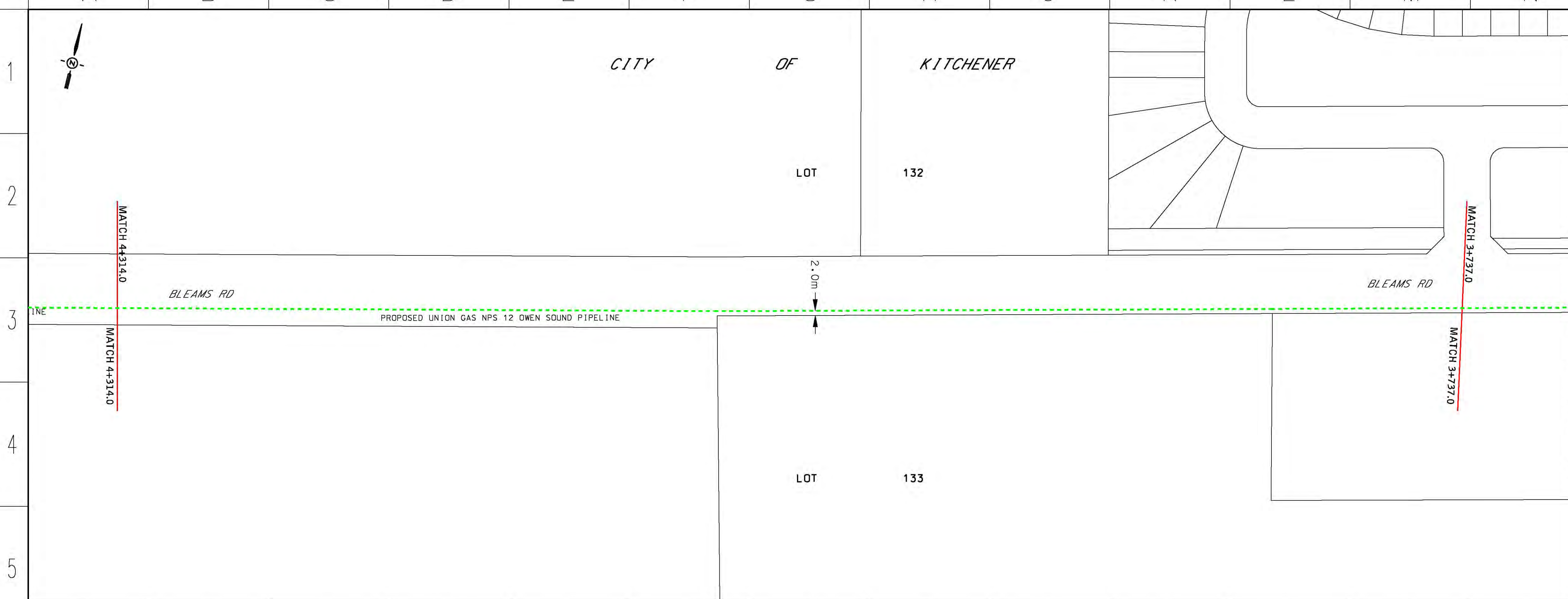
ENGINEER: ENGINEER



**OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS**

DRAWN BY	MATT MADDOCK	DATE	2012:08:17	PLOT SPEC	1/1000
CHECKED BY		DATE		CAD CODE	M613-28.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00
SIZE	SHEET	DRAWING No.	M613-28		





LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Orange dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Red dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Blue dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Grey solid line]
- LOT LINES - [Black dashed line]

DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN

- DESIGNED TO CSA Z662-07
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6160kPa

TEST PRESSURE

- MINIMUM - 8624 kPa
- MAXIMUM - 9240 kPa
- TEST DATE: _____

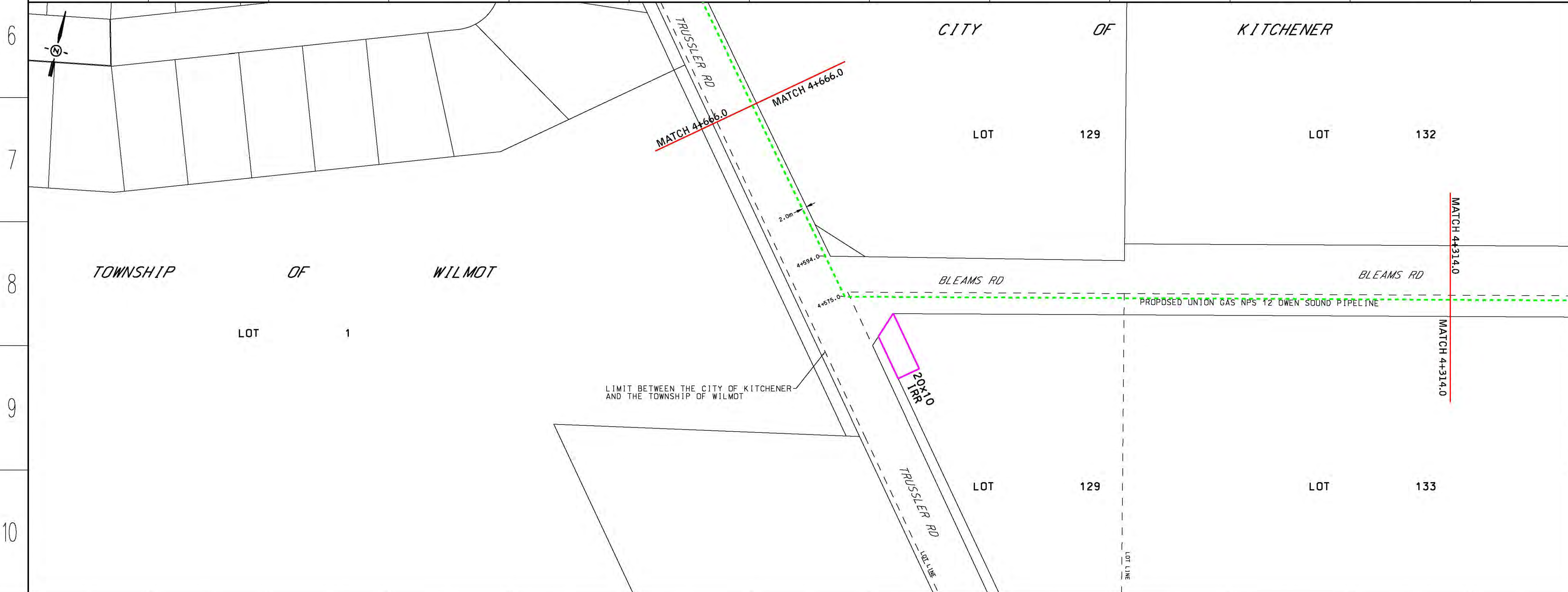
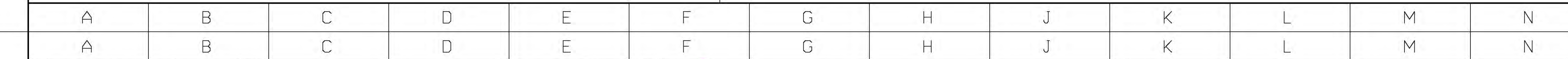
ENGINEER: _____ ENGINEER

No.	DATE	BY	APP'D	REMARKS
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				PRELIMINARY
				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY	MATT MADDOCK	DATE	2012:08:17	PLOT SPEC	1/1000
CHECKED BY		DATE		CAD CODE	M613-29.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00
SIZE		SHEET		DRAWING No.	M613-29



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Orange dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Red dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Blue dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Grey solid line]
- LOT LINES - [Black dashed line]

DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN

- DESIGNED TO CSA Z662-07
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6160kPa

TEST PRESSURE

- MINIMUM - 8624 kPa
- MAXIMUM - 9240 kPa
- TEST DATE: _____

ENGINEER: _____ ENGINEER

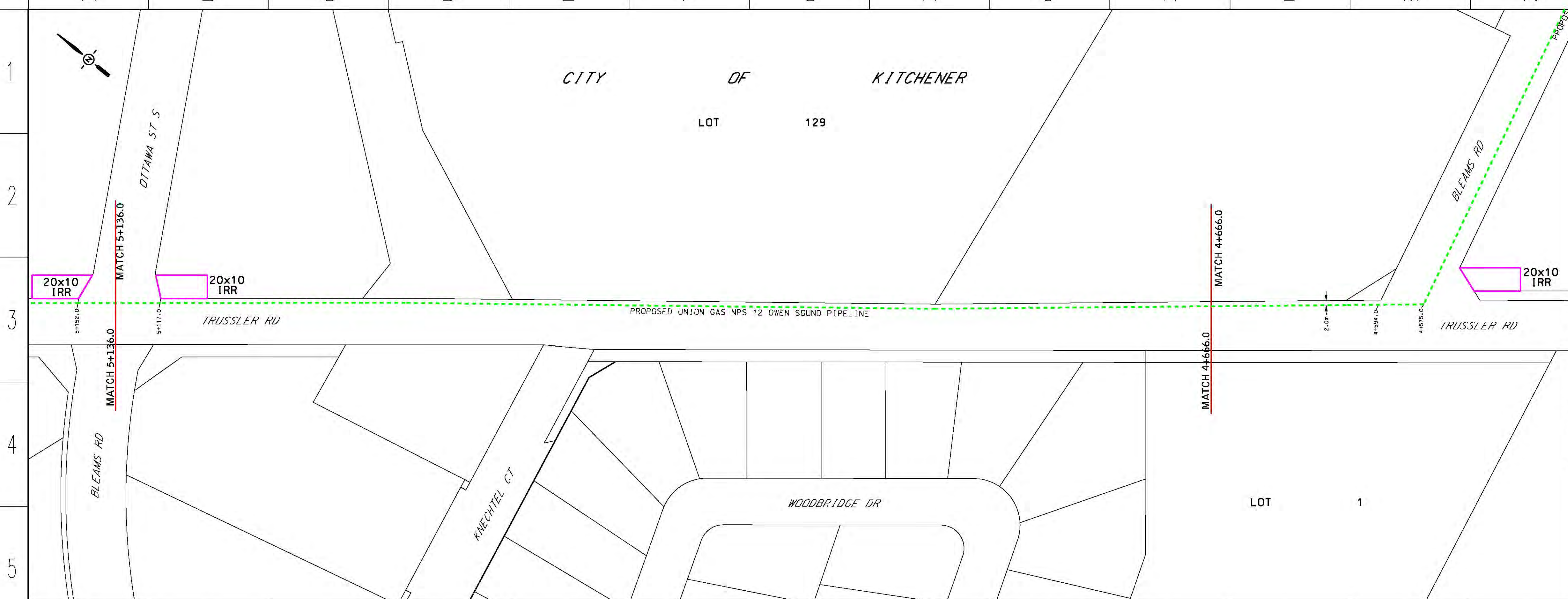
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APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY	MATT MADDOCK	DATE	2012:08:17	PLOT SPEC	1/1000
CHECKED BY		DATE		CAD CODE	M613-30.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00
SIZE		SHEET		DRAWING No.	M613-30





LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Orange dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Red dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Blue dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]

DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN

- DESIGNED TO CSA Z662-07
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6160kPa

TEST PRESSURE

- MINIMUM - 8624 kPa
- MAXIMUM - 9240 kPa
- TEST DATE: _____

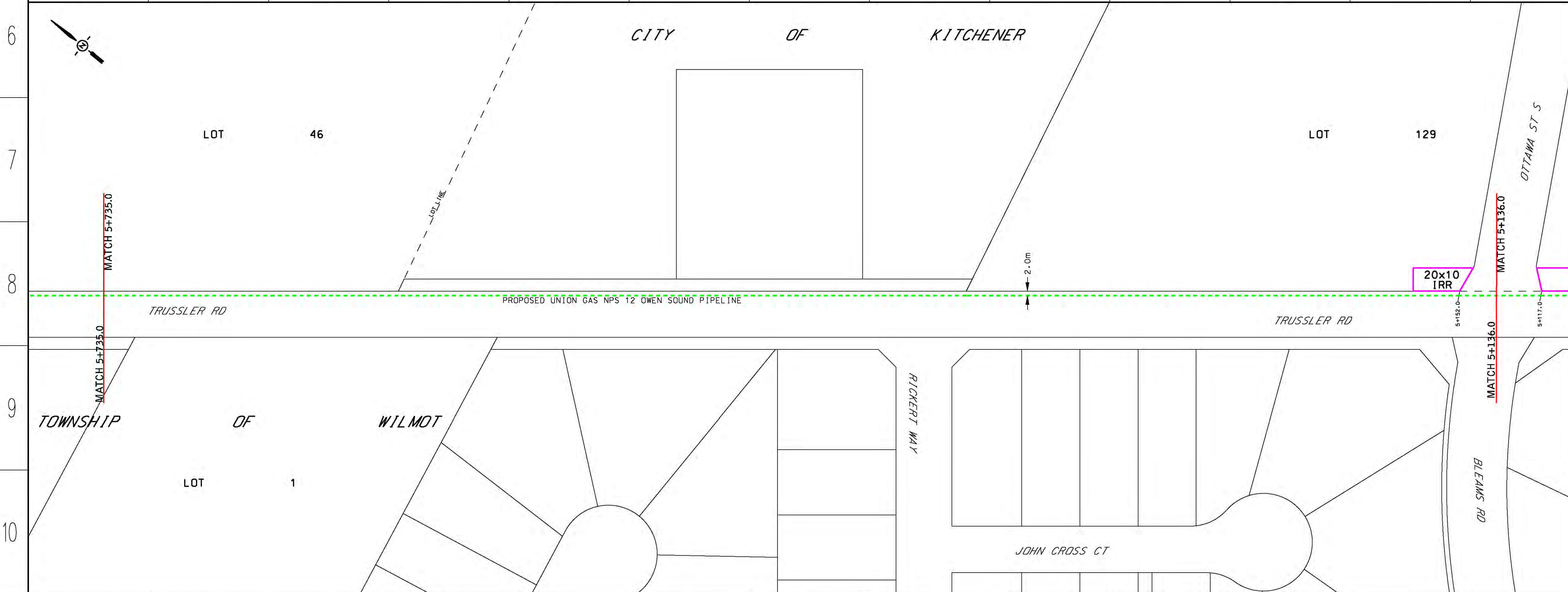
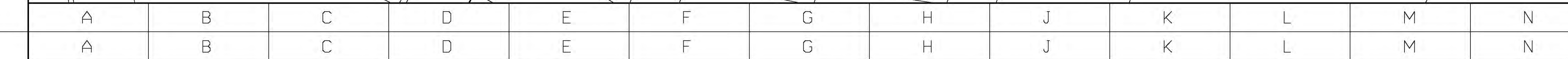
ENGINEER: _____ ENGINEER

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
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				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY	MATT MADDOCK	DATE	2012:08:17	PLOT SPEC	1/1000
CHECKED BY		DATE		CAD CODE	M613-31.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00
SIZE		SHEET		DRAWING No.	M613-31



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Orange dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Red dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Blue dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]

DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN

- DESIGNED TO CSA Z662-07
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6160kPa

TEST PRESSURE

- MINIMUM - 8624 kPa
- MAXIMUM - 9240 kPa
- TEST DATE: _____

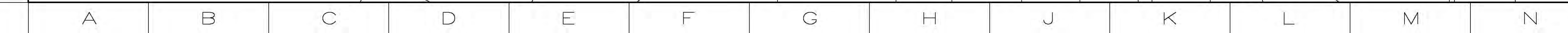
ENGINEER: _____ ENGINEER

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
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				PRELIMINARY
				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY	MATT MADDOCK	DATE	2012:08:17	PLOT SPEC	1/1000
CHECKED BY		DATE		CAD CODE	M613-32.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00
SIZE		SHEET		DRAWING No.	M613-32





LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Red dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Blue dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Black dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]

DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE: _____

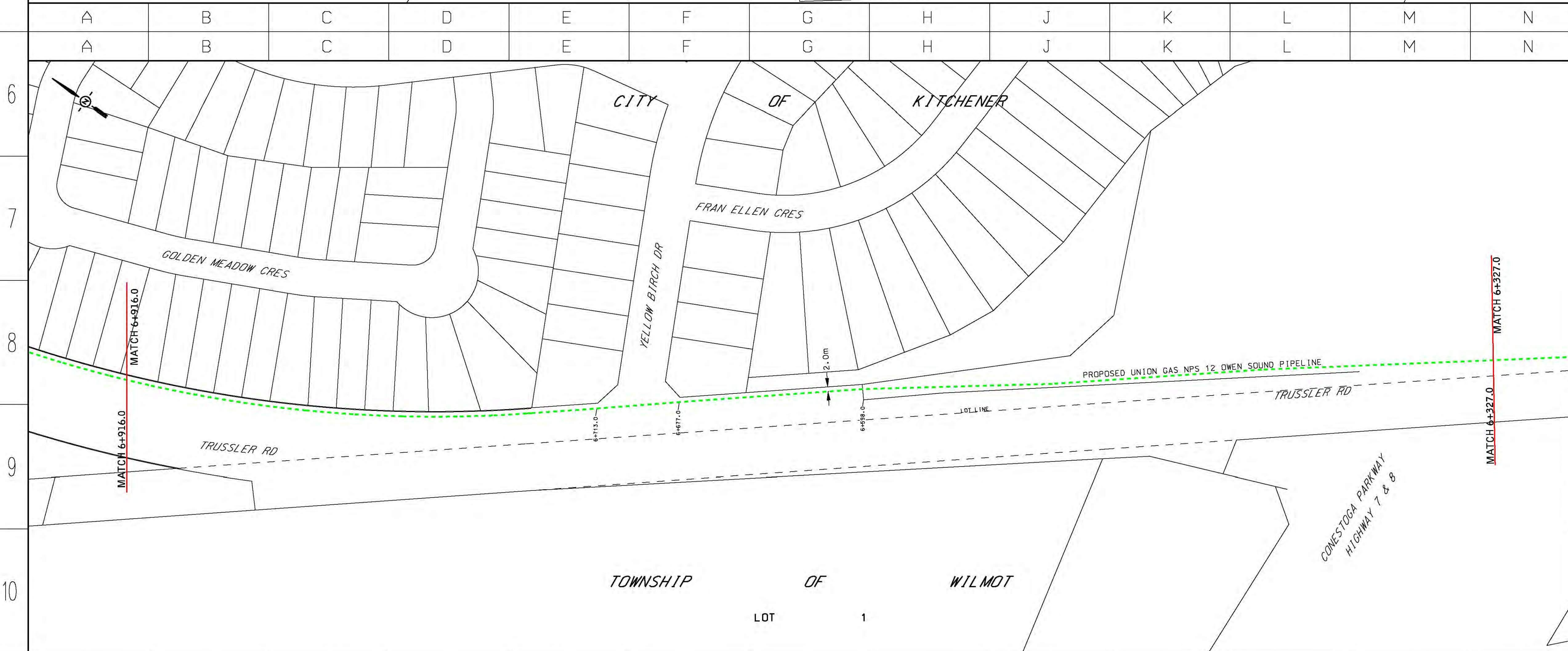
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REVISIONS				
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				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

ENGINEER: _____ ENGINEER

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY: MATT MADDICK	DATE: 2012:08:17	PLOT SPEC: 1/1000
CHECKED BY:	DATE:	CAD CODE: M613-33.dgn
APPROVED BY:	DATE:	FILE REVISION DATE: 2012:00:00
SIZE:	SHEET:	DRAWING No. M613-33



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Red dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Blue dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Black dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]

DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE: _____

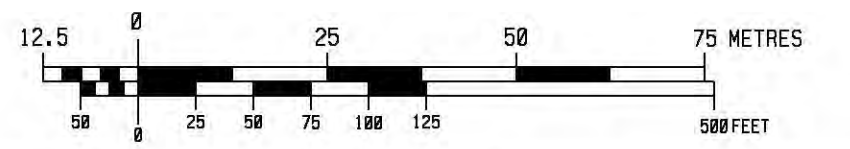
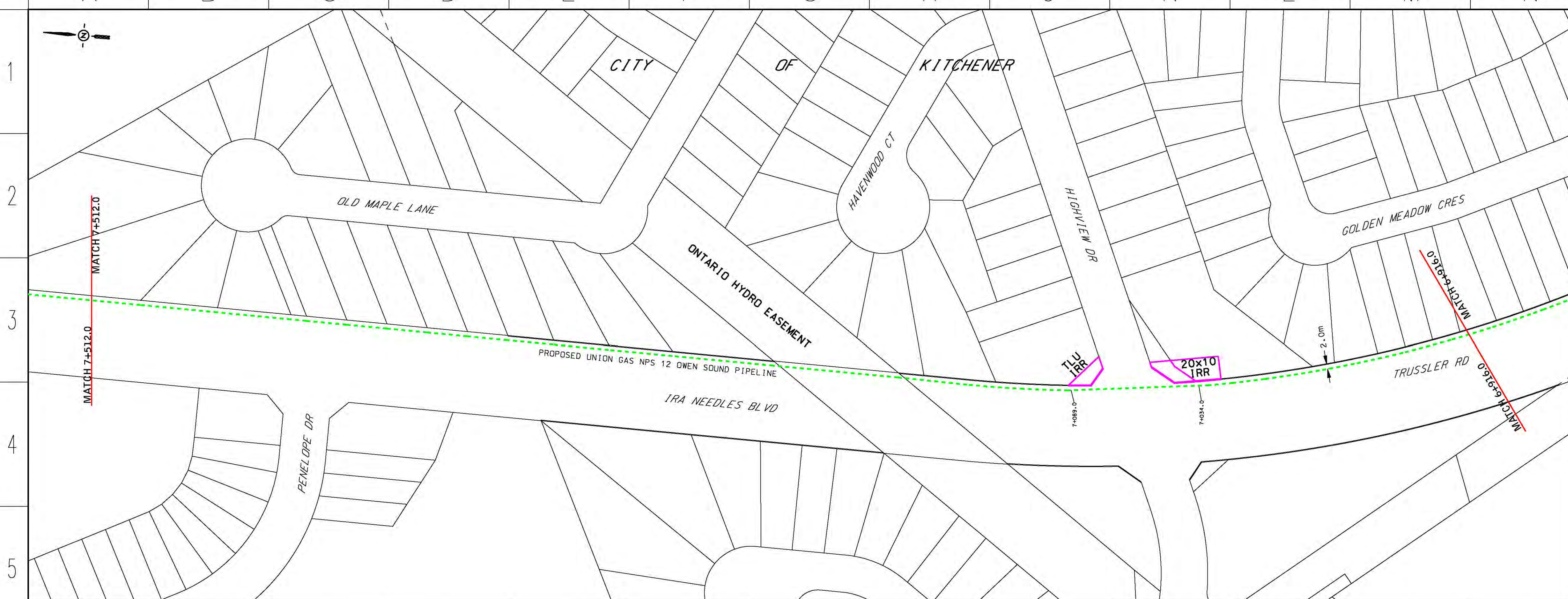
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REVISIONS				
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				PRELIMINARY
				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

ENGINEER: _____ ENGINEER

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY: MATT MADDICK	DATE: 2012:08:17	PLOT SPEC: 1/1000
CHECKED BY:	DATE:	CAD CODE: M613-34.dgn
APPROVED BY:	DATE:	FILE REVISION DATE: 2012:00:00
SIZE:	SHEET:	DRAWING No. M613-34



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE:

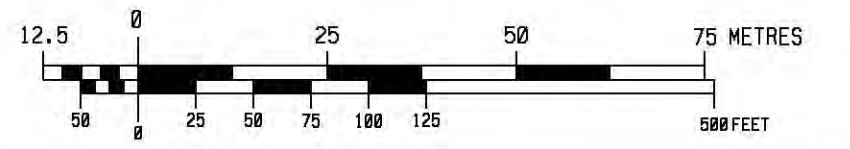
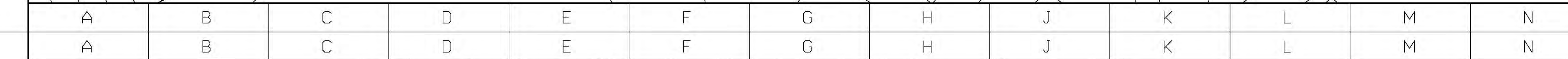
No.	DATE	BY	APP'D	REMARKS
REVISIONS				
				FOR INFORMATION ONLY
				PRELIMINARY
				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

ENGINEER: ENGINEER



**OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS**

DRAWN BY: MATT WADDICK	DATE: 2012-08-17	PLOT SPEC: 1/1000
CHECKED BY:	DATE:	CAD CODE: M613-35.dgn
APPROVED BY:	DATE:	FILE REVISION DATE: 2012:00:00
SIZE:	SHEET:	DRAWING No. M613-35



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE:

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
				FOR INFORMATION ONLY
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				ISSUED FOR BID
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APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

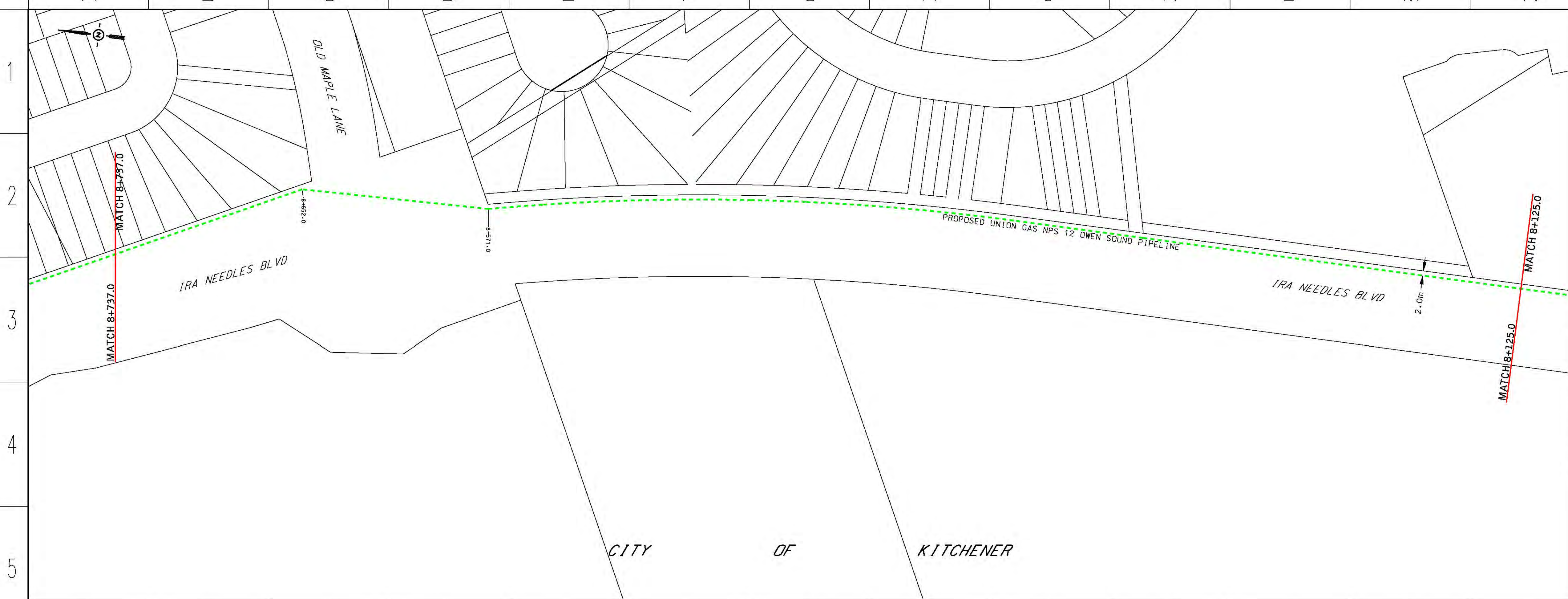
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**OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS**

DRAWN BY: MATT WADDICK	DATE: 2012-08-17	PLOT SPEC: 1/1000
CHECKED BY:	DATE:	CAD CODE: M613-36.dgn
APPROVED BY:	DATE:	FILE REVISION DATE: 2012:00:00
SIZE:	SHEET:	DRAWING No. M613-36





LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Red dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Blue dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Black dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]

DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE: _____

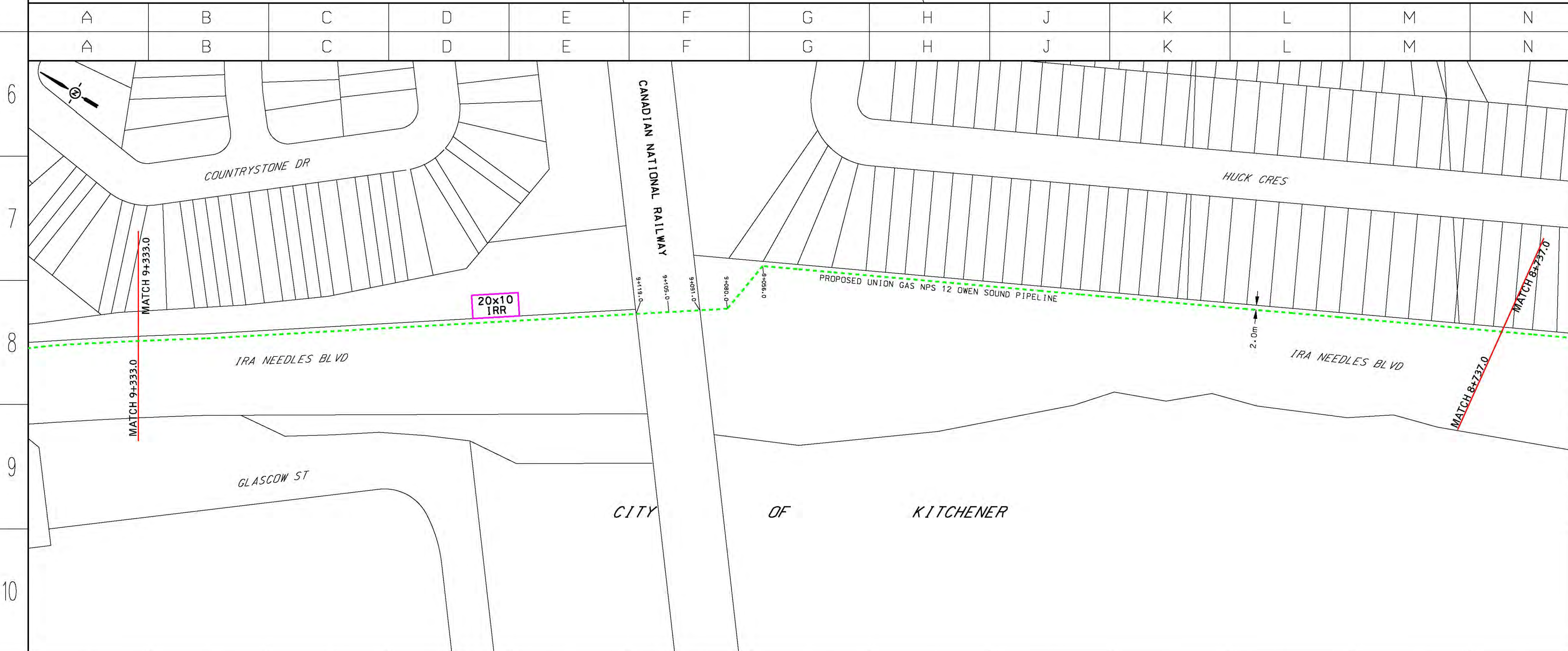
ENGINEER: _____ ENGINEER

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
				FOR INFORMATION ONLY
				PRELIMINARY
				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

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A Spectra Energy Company

OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY	MATT WADDICK	DATE	2012:08:20	PLOT SPEC	1/1000
CHECKED BY		DATE		CAD CODE	M613-37.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00
SIZE	SHEET	DRAWING No.	M613-37		



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Red dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Blue dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Black dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]

DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE: _____

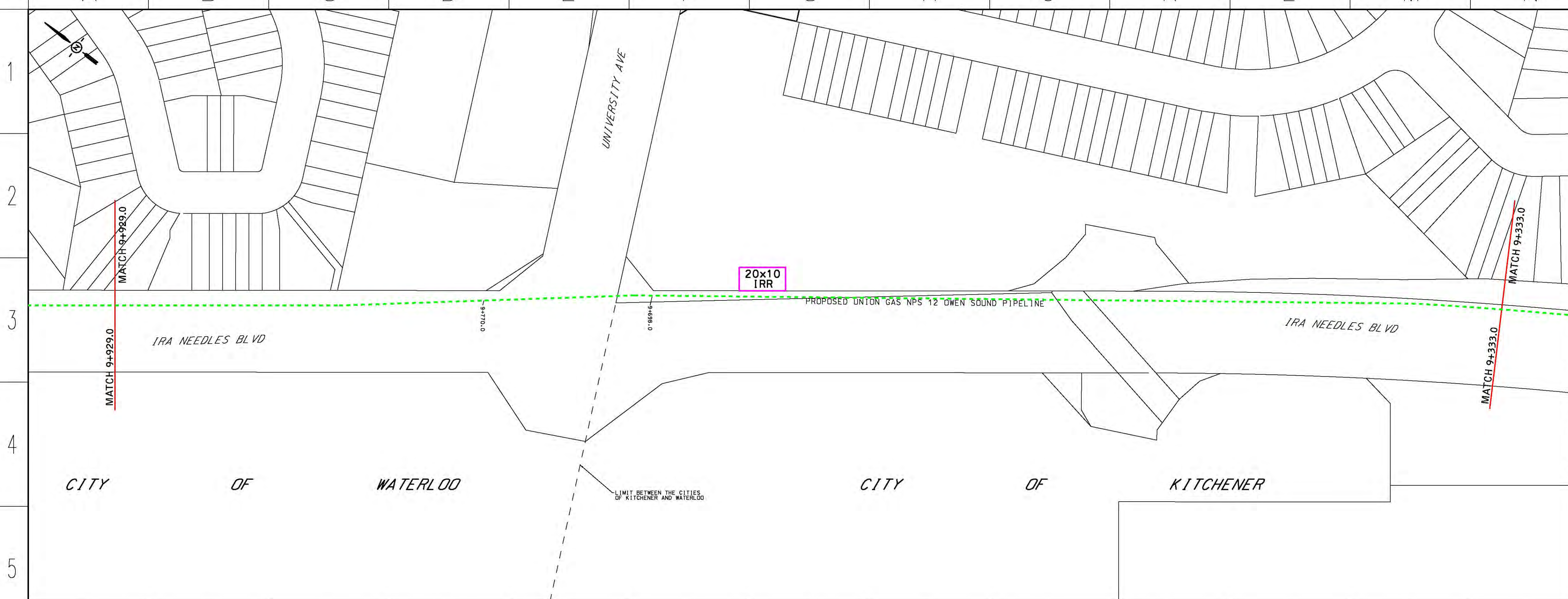
ENGINEER: _____ ENGINEER

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
				FOR INFORMATION ONLY
				PRELIMINARY
				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY	MATT WADDICK	DATE	2012:08:20	PLOT SPEC	1/1000
CHECKED BY		DATE		CAD CODE	M613-38.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00
SIZE	SHEET	DRAWING No.	M613-38		



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Orange dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Red dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Blue dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]

DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE: _____

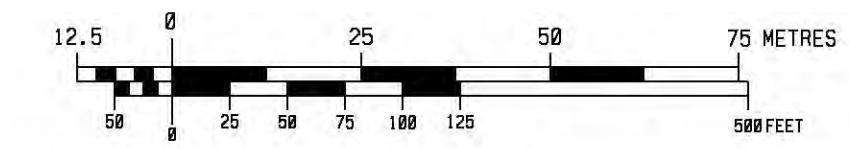
ENGINEER: _____ ENGINEER

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
				FOR INFORMATION ONLY
				PRELIMINARY
				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY	MATT WADDICK	DATE	2012:08:20	PLOT SPEC	1/1000
CHECKED BY		DATE		CAD CODE	M613-39.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00
SIZE		SHEET		DRAWING No.	M613-39



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Orange dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Red dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Blue dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]

DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN
 - DESIGNED TO CSA Z662-07
 - DESIGN FACTOR - 0.8
 - LOCATION FACTOR - 0.625
 - DESIGN TEMPERATURE - M5C
 - DESIGN PRESSURE - 6160kPa

TEST PRESSURE
 - MINIMUM - 8624 kPa
 - MAXIMUM - 9240 kPa
 - TEST DATE: _____

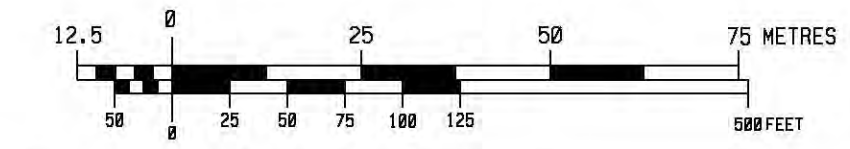
ENGINEER: _____ ENGINEER

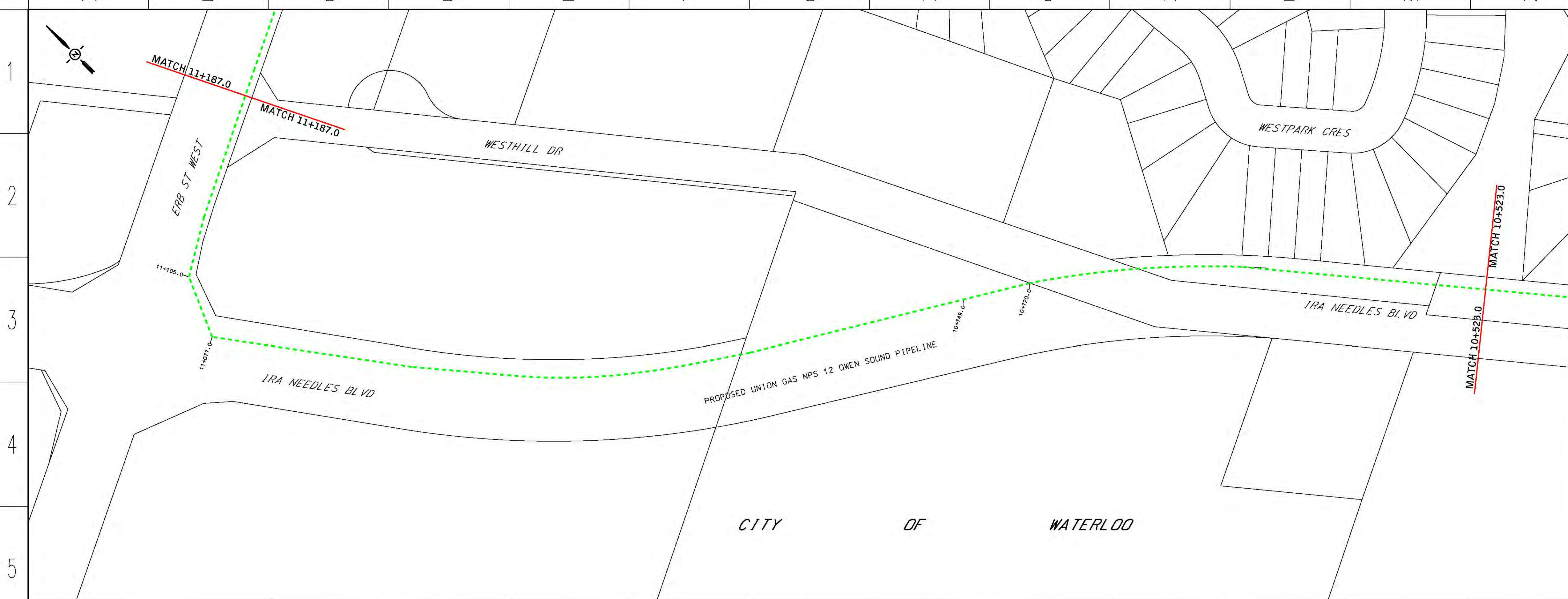
No.	DATE	BY	APP'D	REMARKS
REVISIONS				
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				PRELIMINARY
				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

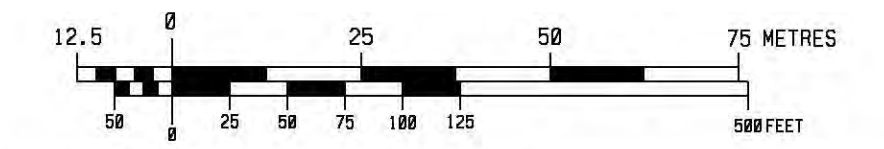
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CHECKED BY		DATE		CAD CODE	M613-40.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00
SIZE		SHEET		DRAWING No.	M613-40





LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Orange dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Red dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Blue dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN

- DESIGNED TO CSA Z662-07
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6160kPa

TEST PRESSURE

- MINIMUM - 8624 kPa
- MAXIMUM - 9240 kPa
- TEST DATE: _____

ENGINEER: _____ ENGINEER

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
				FOR INFORMATION ONLY
				PRELIMINARY
				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
				AS BUILT
				AS BUILT BY: _____
				CHECKED BY: _____

ENGINEER: _____ ENGINEER

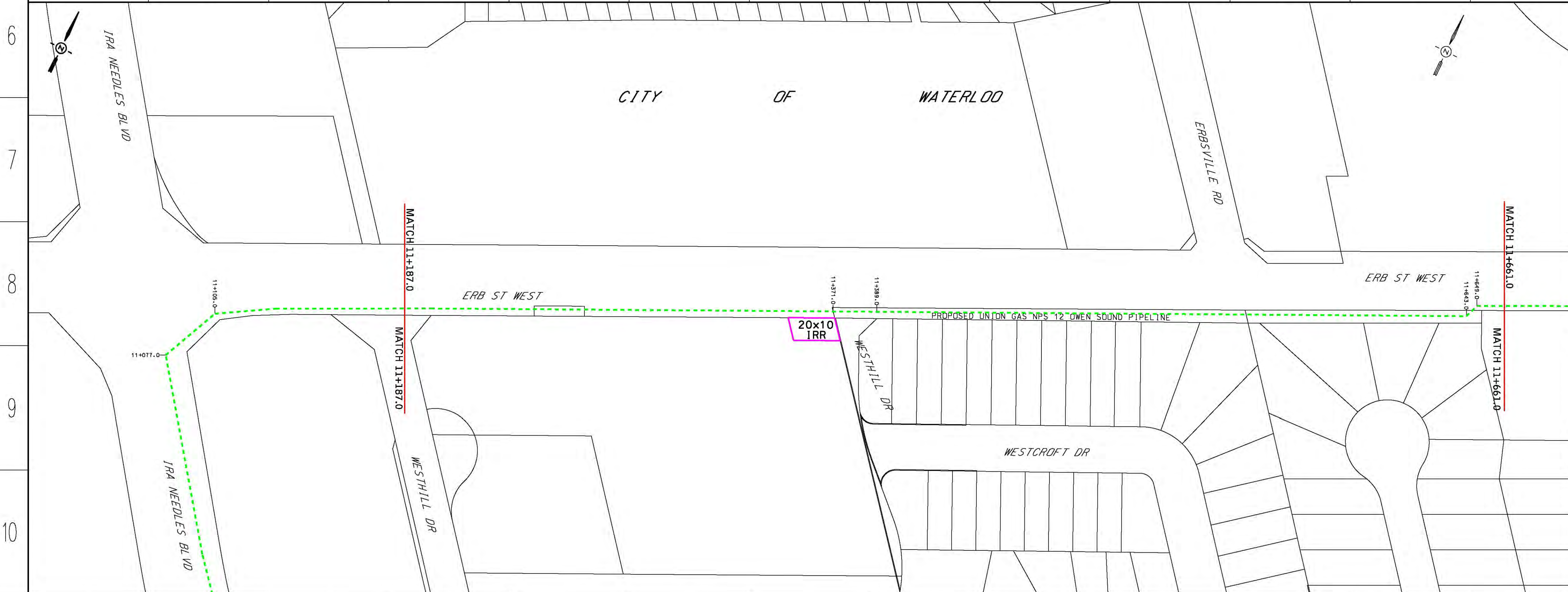
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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY: MATT MADDOCK	DATE: 2012-08-20	PLOT SPEC: 1/1000
CHECKED BY: _____	DATE: _____	CAD CODE: M613-41.dgn
APPROVED BY: _____	DATE: _____	FILE REVISION DATE: 2012:00:00

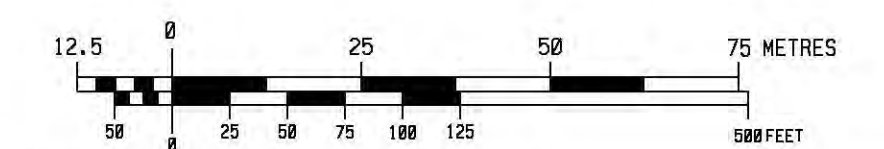
SIZE: _____ SHEET: _____ DRAWING No: M613-41

A B C D E F G H J K L M N O P Q



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Orange dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Red dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Blue dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN

- DESIGNED TO CSA Z662-07
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6160kPa

TEST PRESSURE

- MINIMUM - 8624 kPa
- MAXIMUM - 9240 kPa
- TEST DATE: _____

ENGINEER: _____ ENGINEER

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
				FOR INFORMATION ONLY
				PRELIMINARY
				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
				AS BUILT
				AS BUILT BY: _____
				CHECKED BY: _____

ENGINEER: _____ ENGINEER

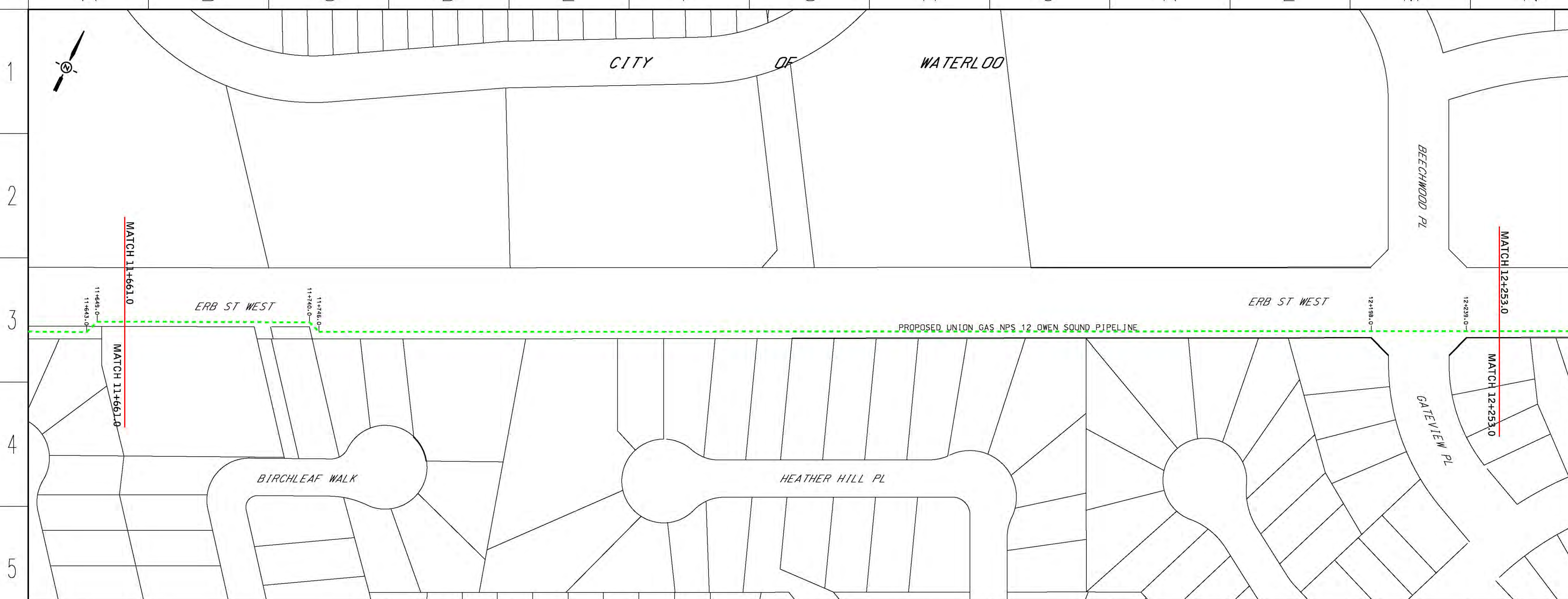
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OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY: MATT MADDOCK	DATE: 2012-08-20	PLOT SPEC: 1/1000
CHECKED BY: _____	DATE: _____	CAD CODE: M613-42.dgn
APPROVED BY: _____	DATE: _____	FILE REVISION DATE: 2012:00:00

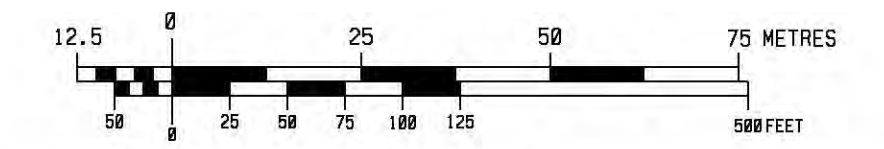
SIZE: _____ SHEET: _____ DRAWING No: M613-42

A B C D E F G H J K L M N O P Q



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Red dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Blue dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Blue dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN

- DESIGNED TO CSA Z662-07
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6160kPa

TEST PRESSURE

- MINIMUM - 8624 kPa
- MAXIMUM - 9240 kPa
- TEST DATE: _____

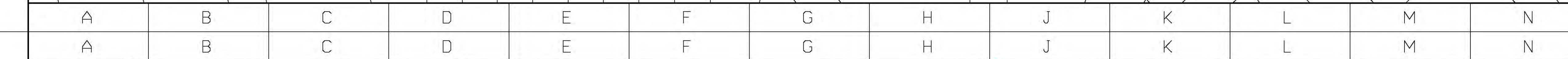
ENGINEER: _____ ENGINEER

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
				FOR INFORMATION ONLY
				PRELIMINARY
				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

uniongas
A Spectra Energy Company

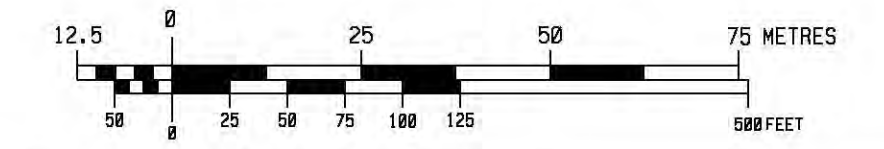
OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY	MATT MADDOCK	DATE	2012:08:20	PLOT SPEC	1/1000
CHECKED BY		DATE		CAD CODE	M613-43.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00
SIZE		SHEET		DRAWING No.	M613-43



LEGEND

- REPLACEMENT NPS 12 PIPING 6160 kPa - [Red dashed line]
- REPLACEMENT NPS 12 PIPING 3450 kPa - [Blue dashed line]
- PROPOSED NPS 12 PIPE ABANDONMENT - [Yellow dashed line]
- PROPOSED NPS 12 PIPING 3450 kPa - [Green dashed line]
- EXISTING NPS 12 PIPING - [Blue dashed line]
- OWEN SOUND NPS 12 EASEMENT - [Black solid line]
- TEMPORARY LAND USE AREA - [Pink solid line]
- PROPERTY LINES - [Black solid line]
- LOT LINES - [Black dashed line]



DESIGN PARAMETERS (NEW PIPING ONLY)

DESIGN

- DESIGNED TO CSA Z662-07
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.625
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6160kPa

TEST PRESSURE

- MINIMUM - 8624 kPa
- MAXIMUM - 9240 kPa
- TEST DATE: _____

ENGINEER: _____ ENGINEER

No.	DATE	BY	APP'D	REMARKS
REVISIONS				
				FOR INFORMATION ONLY
				PRELIMINARY
				ISSUED FOR BID
				ISSUED FOR CONSTRUCTION
APP'D	DATE	AS BUILT	AS BUILT BY:	CHECKED BY:

uniongas
A Spectra Energy Company

OWEN SOUND RELOCATION PROJECT
NPS 12 - 2013 CONSTRUCTION
ALIGNMENT DRAWINGS

DRAWN BY	MATT MADDOCK	DATE	2012:08:20	PLOT SPEC	1/1000
CHECKED BY		DATE		CAD CODE	M613-44.dgn
APPROVED BY		DATE		FILE REVISION DATE	2012:00:00
SIZE		SHEET		DRAWING No.	M613-44



FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-001	03850-0289		Pt Lt 36, Con 9 North Dumfries		4 x 507 (.200) 40 x 30 (.130) 20 x 10 (.02)	(e) Bell Canada #WS557260 (m) The Toronto Dominion Bank #WR383376 (Notice) The Toronto Dominion Bank #WR46916 (e) Union Gas Limited #252728; WS746597 & 1361857 Assign of Rents - Toronto Dominion Bank #WR469186
	03850-0086		Rdal btn Con 9 & 10 North Dumfries Township Rd 2W btn Township Rd 6 & Township Rd 8 North Dumfries			
T1901-002	03850-0106		Pt Lt 36, Con 10 North Dumfries 3172 Alps Rd, Ayr		286 x 4 (.114) IR x IR (.065)	Rest Cov Apl Annex - Z296158 (e) Union Gas Limited #162482; 168174; WS749608 & 1361857
	03850-0098		Pt Lt 32-36 Con 10 being Hwy 401 btn Regional Rd 50 & Lt 31 Con 10 North Dumfries Highway 401			
T1901-002	03850-0237		Pt Lt 36, Con 10 North Dumfries		411 x 4 (.164)	(e) Bell Canada #WS557259 (m) June Seegmiller #1172114 (e) Union Gas Limited #162482; 168174; WS750163 & 1361857
T1901-003	03850-0009	Pt Lt 35-37, Con 10 North Dumfries		786 x 4 (.314) 30 x 10 (.031) 20 x 10 (.020) 20 x 10 (.020)	(e) Bell Canada #WS557529 (e) Union Gas Limited #162481; WS746598 & 1361857 (e) Expropriation - Department of Highways #58G523	

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
	03847-0233		Pt Lt 33 - 38 Con 10 Pt Lt 37 - 38 Con 11 Pt Rdal Btn Lt 36 & 37 Con 10 Pt Rdal Btn Con 10 & 11 Pt Rdal Btn Twp of Blandford-Blenheim & Twp of North Dumfries lying E of Centre Line North Dumfries Cedar Creek Rd			
T1901-004	03847-0172		Pt Lt 35-36, Con 11 North Dumfries Home Address: 331 Bushwood Crt Waterloo, ON N2T 2E6		382 x 4 (0157) 20 x 10 (.022)	(e) Bell Canada #ND12839 & 201315 & 1448815 (m) Canada Trustco Mortgage Co. #1152925 (e) Union Gas Limited 162480; WS748133 & 1361857
T1901-005	03847-0169		Pt Lt 35-36, Con 11 North Dumfries		1248 x 4 (.499) 20 x 10 (.020)	(m) Canadian Imperial Bank of Commerce #WR52075 (e) Union Gas Limited #162485 & 1361857
	03847-0467		Firstly: 13' Widening Plan 1111; Blk 24 Pl 1453; Rdal btn Con 11 & 12; Pt Lt 31 - 37 Con 11; Pt Lt 37, 41-43 Con 12 Secondly: Pt Lt 44 Con 12; Pt Lt 42 Con 12 North Dumfries Roseville Rd			
T1901-006	03847-0017		Pt Lt 44, Con 12 North Dumfries		20 x 10 (.020)	(e) Hydro Electric Commission of Cambridge and North Dumfries #1123196 (m) Computershare Trust Company of Canada #WR408612 (e) Union Gas Limited #162479 & 1361857
T1901-006	03847-0212		Pt Lt 44, Con 12 North Dumfries		788 x 4 (.316)	(e) Hydro Electric Commission of Cambridge and North Dumfries #1123196 (m) Mennonite Savings and Credit Union (Ontario) Limited #1434470 (e) Union Gas Limited #162479 & 1361857

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-007	03847-0008		Pt Lt 43-44, Con 12 North Dumfries		561 x 4 (.0224)	(m) Farm Credit Corporation #1311394 (m) Mennonite Savings and Credit Union (Ontario) Limited #WR294153 (m) Farm Credit Canada #WR684727 (e) Union Gas Limited #164637 & 1361857
T1901-008	03847-0005		Pt Lt 43-44, Con 12 North Dumfries		483 x 4 (.193) 20 x 10 (.020)	(m) Evi Strenzke Hans Adolf Strenzke #WR278891 (e) Union Gas Limited 164639; 166562; 1361857 & 1486198
	22723-0002		Pt Lt 9 Beasleys New Survey Pt Lt 10 Beasleys New Survey Pt Lt 10 Beasleys New Survey Pt Lt 11 Beasleys New Survey Pt Lt 12 Beasleys New Survey Pt Lt 13 Beasleys New Survey Twp of Waterloo Pt Lt 42-47 Con 12 North Dumfries New Dundee Rd			
T1901-009	22723-0022		Pt Lt 10 Beasley's New Survey Waterloo		998 x 4 (.399) 20 x 10 (.020)	(e) Union Gas Limited #162477; 185264 & 1361469
T1901-009	22723-0025		Pt Lt 9, Beasleys New Survey Waterloo		430 x 4 (.171) 20 x 10 (.020)	(m) The Toronto Dominion Bank #WR579825 (e) Union Gas Limited #162478; 185263 & 1361469
T1901-010	22723-0020		N 1/2 Lt 10, Beasley's New Survey Waterloo		450 x 4 (.180)	(e) The Bell Telephone Company of Canada #201316 & #1447853 (Notice) & #1453710 (Notice) (m) The Toronto Dominion Bank #1082889 (e) Union Gas Limited #162476; 178445 & 1361469
T1901-010	22723-0026		Pt Lt 9, Beasley's New Survey Waterloo		450 x 4 (.180)	Agreement - The Corporation fo the City of Kitchener #746119 & #754625 (e) Union Gas Limited 1571557 (re: 162478 & 185263)

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-011	22723-0037		Pt Lt 160, German Company Tract Kitchener		331 x 4 (.133)	(l) Gerald K. Becker #488688 Order - #708670 (e) Union Gas Limited #162475; 182316 & 1361469
T1901-012	22723-0029		Pt Lt 151-153 German Company Tract Kitchener		409 x 4 (.164) 20 x 10 (.020)	(e) The Bell Telephone Company of Canada #B28654 & #201317 & 1447854 (Notice) Rest Cov Apl Annex - #Z326550 (l) Gerald K. Becker #488688 Order - #708670 (e) Union Gas Limited #162474; 166257 & 1361469
	22728-0002		Huron Rd Pl 585 Pt Lt 1 N/S Huron Rd, 4 N/S Huron Rd 5 N/S Huron Rd; 6 N/S Huron Rd: 7 N/S Huron Rd; 8 N/S Huron Rd: 9 N/S Huron Rd; 10 N/S Huron Rd: 11 N/S Huron Rd; 12 N/S Huron Rd: 1 S/S Huron Rd.; 2 S/S Huron Rd 3 S/S Huron Rd.; 4 S/S Huron Rd			
T1901-013	22728-0044		Pt Lt 153, German Company Tract Kitchener		319 x 4 (.128) 20 x 10 (.020)	(e) Union Gas Limited #173010 & 1361469
T1901-014	22728-0090		Pt LT 154 German Company Tract Kitchener		276 x 4 (.110) 216 x 4 (.086)	(m) Mattamy (Westmount) Limited #WR90579 & WR378482 (Notice) (e) Kitchener-Wilmot Hydro Inc. #WR257954 (e) The Regional Municipality of Waterloo #WR257964 (e) Union Gas Limited #1032433
T1901-015	22728-0026		Pt Lt 155, German Company Tract Kitchener		245 x 4 (.098)	(e) Union Gas Limited #1061636
T1901-016	22728-0035		Lt 2, RCP 1469 Kitchener	100 x 15 (.149)	1168 x 4 (.467) 20 x 10 (.020)	(e) The Hydro Electric Power Commission of Ontario #B47490 & B47656 Notice - WR176275 (e) Union Gas Limited #1036676

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
	22727-0002		Firstly: Pt Lt 129 GCT Pt Lt 132 GCT; Pt Lt 133 GCT Pt Lt 139 GCT; Pt Lt 140 GCT Pt Lt 1-2, 4 RCP 1469 Kitchener Beams Rd			
T1901-017	22727-3827		Blk 156, Plan 58M-344 Kitchener	172 x 15 (.262)		Notice - #WR98225 Notice - #WR103949 Notice - #WR459096
T1901-018	22727-4261		Blk 154, Plan 58M-416 Kitchener	211 x 15 (.320)		Certificate - Ontario Fuel Board #163362 Notice of Agreement - #LT18338 (e) The Corporation of the City of Kitchener #LT127508 Notice - #WR202411; #WR225377; #WR2265851 #WR238232; #WR459096
T1901-018	22727-2766		Max Becker Dr. Pl 58M-287 Kitchener Max Becker Drive			No Abstract
T1901-018	22727-1696		Blk 87, Plan 58M-247 Kitchener	274 x 15 (.414)		Certificate - Ontario Fuel Board #163362 Notice of Agreement - #LT18338 Notice - The Corporation of the City of Kitchener/ Kitchener-Wilmot Hydro Inc #LT87742 (e) Kitchener-Wilmot Hydro Inc. #LT116755 Notice - #WR459096
T1901-018	22727-1701		Cotton Grass Street Pl 58M-247 Kitchener			No Abstract

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-018	22727-1536		Pt Lt 6, Plan 1470 Kitchener	51 x 10 (.061)	20 x 10 (.020)	Notice of Agreement - #LT18338 (m) Canadian Imperial Bank of Commerce #LT75648 Notice - The Corporation of the City of Kitchener/ Kitchener-Wilmot Hydro Inc #LT87742 (e) Kitchener-Wilmot Hydro Inc #LT116755 Notice of Agreement - #LT118616 Notice of Agreement - #LT127393 (e) The Corporation of the City of Kitchener Notice - #WR459096
T1901-018	22727-1706		Blk 2, Plan 58M-248 Kitchener	21 x 10 (.020)		Certificate - Ontario Fuel Board #163362 Notice Agreement - #LT18338 Notice - The Corporation of the City of Kitchener/ Kitchener-Wilmot Hydro Inc #LT87742 Notice - #WR459096
T1901-018	22727-1531		Pt Lt 6, Plan 1470 Kitchener	192 x 15 (.230)	20 x 8 (.012)	Certificate - Ontario Fuel Board #163362 Notice Agreement - #LT18338 (m) Canadian Imperial Bank of Commerce #LT75648 Notice - The Corporation of the City of Kitchener/ Kitchener-Wilmot Hydro Inc #LT87742 (e) Bell Canada #LT94966 (e) Kitchener-Wilmot Hydro #LT116755 Notice - #LT118616 Notice Agt - The Corporation of the City of Kitchener #LT127393 (e) The Corporation of the City of Kitchener #LT127508 Notice - #WR459096

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-018	22727-1705		Blk 1, Plan 58M-248 Kitchener	111 x 15 (.166)	23 x 19 (.018)	Certificate - Ontario Fuel Board #163362 Notice Agreement - #LT18338 Notice - The Corporation of the City of Kitchener/ Kitchener-Wilmot Hydro Inc #LT87742 Notice - #WR459096
T1901-018	22727-0591		Fischer Hallman Road PI 58M-78 Kitchener			
T1901-018	22727-0585		Blk 9, Plan 58M-78 Kitchener		20 x 20 (.020)	Certificate - Ontario Fuel Board #163362 Notice - #WR459096
T1901-018	22727-0285		Blk C, Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - #529773 Agreement - #659212 Notice - #WR459096
T1901-018	22727-0018		Blk 8, Plan 1605 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - #529773 Agreement - #766027 Agreement - #769882 Agreement - #853301 Agreement - #857531 Notice - #WR459096

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
Abandoned Section						
T1901-019	22727-0427		Pt Blk 2, Plan 1605 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - #766027 Agreement - #769882 Agreement - #853301 Agreement - #857531 Agreement - #870920 Rest Cov Apl Annex - #Z880345 Rest Cov Apl Annex - #Z882701 Notice - #WR459096
T1901-019	22727-0426		Pt Blk 2, Plan 1605 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - #766027 Agreement - #769882 Agreement - #853301 Agreement - #857531 Agreement - #870920 Rest Cov Apl Annex - #Z911689 (m) Education Credit Union Limited #WR339011 (m) The Bank of Nova Scotia #WR368003 Notice - #WR459096

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-019	22727-0426		Pt Blk 2, Plan 1605 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - #766027 Agreement - #769882 Agreement - #853301 Agreement - #857531 Agreement - #870920 Rest Cov Apl Annex - #Z883991 Rest Cov Apl Annex - #Z893386 Notice - #WR459096 (m) Laurentian Bank of Canada #WR645880
T1901-019	22727-0424		Pt Blk 2, Plan 1605 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - #766027 Agreement - #769882 Agreement - #853301 Agreement - #857531 Agreement - #870920 Rest Cov Apl Annex - #Z883990 Rest Cov Apl Annex - #Z901579 (m) Bank of Montreal #WR349756 Notice - #WR459096

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-019	22727-0423		Pt Blk 2, Plan 1605 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - #766027 Agreement - #769882 Agreement - #853301 Agreement - #857531 Agreement - #870920 Rest Cov Apl Annex - #Z883889 Rest Cov Apl Annex - #Z891070 (M) Bank of Montreal #1484577 Notice - #WR459096
T1901-019	22727-0405		Pt Lt 63-64 Plan 1466 Kitchener		5 x 3 (.001)	(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - #766027 (e) The Bell Telephone Company of Canada Hydro-Electric Commission of Kitchener- Wilmot #835083 (m) First National Financial GP Corporation #WR671934
T1901-019	22727-0404		Pt Lt 62-63 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - #766027 (e) The Bell Telephone Company of Canada Hydro-Electric Commission of Kitchener- Wilmot #835083 Notice - #WR459096 (m) CIBC Mortgage Inc. #WR603222

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-019	22727-0403		Pt Lt 61 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - #766027 (m) The Toronto Dominion Bank #WR58771 Notice - #WR459096
T1901-019	22727-0402		Pt Lt 60 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - #766027 Agreement - #769882 (m) CIBC Mortgages Inc Trading as Firstline Mortgages #WR393616 Notice - #WR459096
T1901-019	22727-0401		Pt Lt 58 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Rest Cov Apl Annex - Z810260 (m) The Bank of Nova Scotia #WR452704 Notice - #WR459096
T1901-019	22727-04000		Pt Lt 57 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - #681091 Rest Cov Apl Annex - Z810260 Notice - #WR459096 (m) Scotia Mortgage Corporation #WR617799
T1901-019	22727-0399		Pt Lt 55 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 (m) MCAP Service Corporation WR49532 Notice - #WR459096 (m) ICICI Bank Canada #WR692557

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-019	22727-0398		Pt Lt 54 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) Bank of Montreal #WR319810 Notice - #WR459096
T1901-019	22727-0397		Pt Lt 53 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) Bank of Montreal #WR70506 Notice - #WR459096
T1901-019	22727-0396		Pt Lt 52 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) Bank of Nova Scotia #1568444 Notice - #WR459096
T1901-019	22727-0395		Pt Lt 50 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 (M) CIBC Mortgages Inc. trading as Firstline Mortgages #WR462734 Notice - #WR459096
T1901-019	22727-0394		Pt Lt 48-49 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) The Bank of Nova Scotia #WR4036000 Notice - #WR459096

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-019	22727-0393		Pt Lt 47-48 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) Royal Bank of Canada #WR638423 Notice - #WR459096
T1901-019	22727-0392		Pt Lt 46 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) Home Trust Company #WR544128 (m) Stephen Patrick Haller #WR544129 Notice - #WR459096
T1901-019	22727-0391		Pt Lt 45 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) Scotia Mortgage Corporation #WR382031 Notice - #WR459096
T1901-019	22727-0390		Pt Lt 43-44 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) HSBC Bank Canada #WR392252 Notice - #WR459096

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-019	22727-0389		Pt Lt 42 Plan 1466 Kitchener		5 x 3 (.001)	(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) The Toronto Dominion Bank #WR131010 (m) The Toronto Dominion Bank #WR525469 Notice - #WR459096
T1901-019	22727-0388		Pt Lt 40-41 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) CIBC Mortgages Inc. #WR134580 (m) Canadian Imperial Bank of Commerce #WR486525 Notice - #WR459096
T1901-019	22727-0387		Pt Lt 39-40 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) The Bank of Nova Scotia #WR470414 Notice - #WR459096
T1901-019	22727-0386		Pt Lt 38 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) CIBC Mortgages Inc #WR176620 Notice - #WR459096

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-019	22727-0385		Pt Lt 37 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) The Bank of Nova Scotia #WR549261 Notice - #WR459096
T1901-019	22727-0384		Pt Lt 35-36 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) The Toronto Dominion Bank #WR429503 Notice - #WR459096
T1901-019	22727-0383		Pt Lt 34-35 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) Your Neighbourhood Credit Union Limited #687100 Notice - #WR459096
T1901-019	22727-0382		Pt Lt 31-33 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) Royal Bank of Canada #WR449517 Notice - #WR459096
T1901-019	22727-0381		Pt Lt 29-31 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) Bank of Montreal #WR638107 Notice - #WR459096

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-019	22727-0380		Pt Lt 27-29 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) The Toronto Dominion Bank #WR529163 Notice - #WR459096
T1901-019	22727-0379		Pt Lt 24-26 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 Notice - #WR459096
T1901-019	22727-0378		Pt Lt 22-24 Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 Agreement - Cityof Kitchener #681091 (m) Bank of Montreal #1521359 Notice - #WR459096
T1901-019	22727-0265		Blk L, Plan 1466 Kitchener			(e) Union Gas Limited #162469; 174706 & 1361845 (m) Bank of Montreal #614075 Notice - #WR459096
T1901-020	22726-0171		Pt Lt 47, German Company Tract Kitchener			Notice - #WR459096 (e) Union Gas Limited #369994
T1901-021	22726-0166		Pt Lt 47, German Company Tract Kitchener			Notice - #WR459096
T1901-021	22726-0163		Pt Lt 47, German Company Tract Kitchener			Notice - #WR459096

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-021	22469-0225		Pt Lt 47, German Company Tract Kitchener			Notice - #WR459096 (e) Union Gas Limited #164452 & 1361469
T1901-021	22455-0102		Blk F, Plan 1384 Kitchener			Notice - #WR459096
T1901-022	22469-0001		Pt Lt 47 GCT Kitchener			No abstract
T1901-023	22469-0229		Lt 3, Plan 1024 Kitchener			Notice - #WR459096 (e) Union Gas Limited #164452 & 1361469
T1901-024	22476-0001		Pt Lt 35-36, German Company Tract Kitchener			Notice - #WR459096 (e) Union Gas Limited #164451; 164452; 170594 & 1361469
T1901-026	22700-0067		Lt 16, Plan 1827 Kitchener			(m) MCAP Service Corporation #WR336986 (e) Union Gas Limited 173954 & 1361469
T1901-026	22700-0066		Lt 15, Plan 1827 Kitchener			(m) CIBC Mortgages Inc #WR302481 (m) First National GP Corporation #WR698295 (e) Union Gas Limited #173954 & 1361469
T1901-026	22700-0065		Lt 14, Plan 1827 Kitchener			(m) The Toronto Dominion Bank #WR673759 (e) Union Gas Limited #173954 & 1361469
T1901-026	22700-0064		Lt 13, Plan 1827 Kitchener			(m) The Toronto Dominion Bank #WR673758 (e) Union Gas Limited #173954 & 1361469
T1901-026	22700-0063		Lt 12, Plan 1827 Kitchener			(e) Union Gas Limited #173954 & 1361469

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-026	22700-0062		Lt 11, Plan 1827 Kitchener			(m) The Toronto Dominion Bank #WR364332 (e) Union Gas Limited #173954 & 1361469
T1901-026	22700-0061		Lt 10, Plan 1827 Kitchener			(m) The Toronto Dominion Bank #WR398804 (m) The Toronto Dominion Bank #WR649269 (e) Union Gas Limited #173954 & 1361469
T1901-026	22700-0060		Lt 9, Plan 1827 Kitchener			(m) Royal Bank of Canada #WR442813 (e) Union Gas Limited #173954 & 1361469
T1901-026	22700-0059		Lt 8, Plan 1827 Kitchener			(m) Royal Bank of Canada #WR573952 (e) Union Gas Limited #173954 & 1361469
T1901-026	22700-0058		Lt 7, Plan 1827 Kitchener			(m) Royal Bank of Canada #WR651644 (e) Union Gas Limited #173954 & 1361469
T1901-026	22700-0057		Lt 6, Plan 1827 Kitchener			(m) The Toronto Dominion Bank #WR96399 (e) Union Gas Limited #173954 & 1361469
T1901-026	22700-0056		Lt 5, Plan 1827 Kitchener			(m) The Toronto Dominion Bank #WR537339 (m) The Toronto Dominion Bank #WR537340 (e) Union Gas Limited #173954 & 1361469

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T1901-026	22700-0055		Lt 4, Plan 1827 Kitchener			(m) Royal Bank of Canada #WR617676 (e) Union Gas Limited #173954 & 1361469
T1901-026	22700-0054		Lt 3, Plan 1827 Kitchener			(m) First National Financial GO Corporation #WR492702 (e) Union Gas Limited #173954 & 1361469
T1901-026	22700-0053		Lt 2, Plan 1827 Kitchener			(m) Royal Bank of Canada #WR620571 (e) Union Gas Limited #173954 & 1361469
T1901-026	22700-0052		Lt 1, Plan 1827 Kitchener			(m) CIBC Mortgages Inc, Trading as Firstline Mortgages #WR312003 (e) Union Gas Limited #173954 & 1361469
T1901-026	22700-0051		Blk 68, Plan 1738 Kitchener			(e) Union Gas Limited #173954 & 1361469
T1901-026	22701-0103		Blk 65, Plan 1738 Kitchener			(m) Canadian Imperial Bank of Commerce #WR642580
T1901-026	22702-0030		Blk 64, Plan 1738 Kitchener			(e) Union Gas Limited #173955 & 1361469 (e) Bell Canada #1098213
T1901-026	22702-0004		Pt LT 34, German Company Tract Kitchener			(e) Union Gas Limited #173955 & 1361469

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-026	22453-0172		Lt 245, Plan 1481 Kitchener			(m) Canadian Imperial Bank of Commerce #WR375868 & WR551571 (m) CIB Mortgages Inc. #WR551568 (e) Union Gas Limited #173955 & 1361469
T1901-026	22453-0173		Lt 246, Plan 1481 Kitchener			(m) Bank of Montreal #WR454817 (e) Union Gas Limited #173955 & 1361469
T1901-026	22453-0174		Lt 247, Plan 1481 Kitchener			(m) Canada Trustco Mortgage Co. #1050573 (m) Home Trust Company #WR638703 (e) Union Gas Limited #173955 & 1361469
T1901-026	22453-0175		Lt 248, Plan 1481 Kitchener			(m) The Toronto-Dominion Bank #1382838 (e) Union Gas Limited #173955 & 1361469
T1901-026	22453-0176		Lt 249, Plan 1481 Kitchener			(m) Royal Bank of Canada #WR156213 (e) Union Gas Limited #173955 & 1361469
T1901-026	22453-0177		Lt 250, Plan 1481 Kitchener			(m) Manulife Bank of Canada #WR263522 (e) Union Gas Limited #173955 & 1361469
T1901-026	22453-0178		Lt 251, Plan 1481 Kitchener			(m) The Toronto Dominion Bank #WR257897 (e) Union Gas Limited #173955 & 1361469
T1901-026	22453-0179		Lt 252, Plan 1481 Kitchener		5 x 3 (.001)	(m) The Toronto Dominion Bank #WR307789 & WR667282 (e) Union Gas Limited #173955 & 1361469

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T1901-026	22453-0219		Lt 292, Plan 1481 Kitchener			(m) Bank of Montreal #WR485008 (e) Union Gas Limited #173955 & 1361469
T1901-026	22453-0220		Lt 293, Plan 1481 Kitchener			(m) The Toronto-Dominion Bank #1361469 (e) Union Gas Limited #173955 & 1361469
T1901-026	22453-0221		Lt 294, Plan 1481 Kitchener			(m) The Toronto-Dominion Bank #WR293295 & WR687628 (e) Union Gas Limited #173955 & 1361469

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T1901-026	22453-0222		Lt 295, Plan 1481 Kitchener			(m) CIBC Mortgages Inc Trading as Firstline Mortgages #WR650946 (e) Union Gas Limited #173955 & 1361469
T1901-026	22453-0223		Lt 296, Plan 1481 Kitchener			(m) Royal Bank of Canada #WR348830 (e) Union Gas Limited #173955 & 1361469
T1901-026	22453-0224		Lt 297, Plan 1481 Kitchener			(e) Union Gas Limited #173955 & 1361469
T1901-026	22703-0172		Lt 298, Plan 1481 Kitchener			(m) The Bank of Nova Scotia #WR160840 (e) Union Gas Limited #173955 & 1361469
T1901-026	22703-0173		Lt 299, Plan 1481 Kitchener			(e) Union Gas Limited #173955 & 1361469
T1901-026	22703-0174		Lt 300, Plan 1481 Kitchener			(m) Royal Bank of Canada #WR541486 (e) Union Gas Limited #173955 & 1361469
T1901-026	22703-0175		Lt 302, Plan 1481 Kitchener			(e) Union Gas Limited #173955 & 1361469
T1901-026	22703-0178		Lt 3, Plan 1532 Kitchener			(m) Bank of Montreal #1543156 (e) Union Gas Limited #173955 & 1361469
T1901-026	22703-0179		Lt 4, Plan 1532 Kitchener			(m) The Toronto Dominion Bank #WR39488 (e) Union Gas Limited #173955 & 1361469

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T1901-026	22703-0180		Lt 5, Plan 1532 Kitchener			(m) The Toronto-Dominion Bank #WR643230 (e) Union Gas Limited #173955 & 1361469
T1901-026	22703-0181		Pt Lt 60, Plan 1532 Kitchener			(m) Waterloo County Education Credit Union Limited #1427123 (e) Union Gas Limited #173955 & 1361469
T1901-026	22703-0182		Pt Lt 60, Plan 1532 Kitchener			(m) Canada Trustco Mortgage Co. #1080122 & 1438063 (e) Union Gas Limited #173955 & 1361469
T1901-026	22703-0183		Pt Lt 60, Plan 1532 Kitchener		5 x 3 (.001)	(m) The Toronto Dominion Bank #WR54347 (e) Union Gas Limited #173955 & 1361469
T1901-026	22703-0184		Pt Lt 60, Plan 1532 Kitchener			(m) The Toronto Dominion Bank #WR397771 & WR634708 (e) Union Gas Limited #173955 & 1361469
T1901-026	22703-0185		Pt Lt 61, Plan 1532 Kitchener			(e) Union Gas Limited #173955 & 1361469
T1901-026	22703-0186		Pt Lt 61, Plan 1532 Kitchener			(m) The Toronto Dominion Bank #WR97542 (e) Union Gas Limited #173955 & 1361469
T1901-026	22703-0187		Pt Lt 61, Plan 1532 Kitchener			(m) Canada Mortgage and Housing Corp #1055933 (m) The Toronto Dominion Bank #WR36497 (e) Union Gas Limited #173955 & 1361469
T1901-026	22703-0188		Walk Blk 306, Plan 1481 Kitchener			(e) Union Gas Limited #173955 & 1361469

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T1901-026	22703-0189		Pt Lt 62, Plan 1532 Kitchener			(m) The Bank of Nova Scotia #1464503 (m) The Toronto Dominion Bank #WR98275 (e) Union Gas Limited #173955 & 1361469
T1901-026	22703-0190		Pt Lt 62, Plan 1532 Kitchener			(m) Scotia Mortgage Corporation #1567923 (e) Union Gas Limited #173955 & 1361469
T1901-026	22703-0228		Pt Blk 63-64, Plan 1625 Kitchener			(e) Union Gas Limited #173955 & 1361469
T1901-027	22703-0360		Pt Lt 33-34, German Company Tract Kitchener			(e) Bell Canada #970578 (e) Hydro Electric Commission of Kitchener Wilmot #990608
T1901-028	22703-0016		Blk 151, Plan 1689, Blk 151, Plan 1688, Pt Lt 34 German Company Tract Kitchener			(e) The Hydro Electric Power Commission of Ontario #B48321 (e) Union Gas Limited #164454 & 1361469 (e) Hydro Electric Commission of Kitchener Wilmot #950818

FILE NO. P.I.N. NO.		NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
T1901-029	22703-0285		Blk 62, Plan 1625 Kitchener			(e) Union Gas Limited #165344 & 1361469
T1901-029	22703-0296		Blk 59-60, Plan 1625 Kitchener			(e) Union Gas Limited #165344 & 1361469
T1901-030	22703-0288		Pt Lt 33, German Company Tract Kitchener			(e) Union Gas Limited #935249 & 938254 (e) Hydro Electric Commission of Kitchener Wilmot #992428 Partial Release #WR164181 (l) Intervivos Investments Limited Michael Wienberg Properties Ltd #1032357 (l) Michael Wienberg Properties Ltd Intervivos Investments Ltd. c.o.b. as Mikron Properties #1035950 (l) National Bank of Canada #1070038 (l) Pharm Plus Drugmarts Ltd #1314902 (l) Michael Wienberg Properties Ltd Intervivos Investments Ltd. #1420078 © Sun Life Assurance Company of Canada #WR157540 Ass of Rents - Sun Life Assurance Company of Canada #WR157541 & WR157542
T1901-023	22469-0232		Lt 1-7 PL 1052 Kitchener; Pt Lt L, PL 784 Kitchener; Pt LT 3, PL 1024 Kitchener; Pt LT 2, PL 1025; Pt Lt 3 PL 1020 Kitchener; PT BLK B PL 1052 Kitchener; PT LT 168 PL 955 Kitchener; PT LT 36 PL 785 Kitchener; PT LT 5-6 PL 748 Kitchener; Pt LT 47 German Company Tract Kitchener; PT LT 48 German Company tract Kitchener; Pt 9 58R-2420; Pt Valleyview Rd PL 748 Kitchener; Pt Lt 7 PL 748 Kitchener; PT of Pt 4, 58R-2420 PT LT K PL 784, Kitchener Pt 8, 58R-2420; being Conastoga Parkway aka King's Hwy 7 & 8 Btn Fischer Hallman Rd & Westmount Rd s/t 164452 Kitchener			(e) Union Gas Limited #164452

FILE NO. P.I.N. NO.	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
22467-0013		Pt Lt 129, German Company Tract Waterloo; Pt Lt 130 German Company Tract Pt 1, 58R-4807 Kitchener		20 x 10 (.020)	(m) Sun Life Assurance Company of Canada #WR365386 (m) Klaus Gerd Lessmann #WR600490
22698-1364		Pt Lt 39 German Company Tract Waterloo; Pt 9 on 58R-14877 S/T esmt Pt 1, 58R-14681 as in WR155475; Kitchener		20 x 10 (.020)	(e) The Regional Municipality of Waterloo #WR155475
22728-0086		Pt Lts 140-142 German Company Tract; Waterloo, Pts 1-5 & 7, 58R-15375; Kitchener s/t Esmt Pt 2, 58R-15375 as in B47492; s/t Esmt Pt 7, 58R-15375 as in B47493; s/t Esmt Lts 143 & 144 GCT Pt 5, 58R-15375 as in 949187 T/W esmt Pt 6, 58R-15375 as in 949187		10 x 20 (.020)	(e) the Hydro Electric Power Commission of Ontario #B47492 & B47493
22461-1058		Pt Lt 16, PL 1551 Kitchener Pt 5, 58R-14692 s/t ease for entry as in 962215		IRR	Agreement - City of Kitchener/Hydro Electric Commission Kitchener-Wilmot #778523 Agreement - Regional Municipality of Waterloo #781154 Notice of Agreement - City of Kitchener #777580 Agreement - City of Kitchener #794917
22698-2193		Pt Lt 38 German Company Tract Pt 5, 58R-17192; S/T ease as in WR587144; T/W ease over Common Elements of Waterloo Standard Condominium Plan No. 572 as in WR646822. T/W ease Pts 15 & 18 r8R-17222 as in WR659749 Kitchener		20 x 10 (.020)	(e) Rogers Cable Communications Inc #WR587144 (m) Marshallzehr Group Inc #WR711037

FILE NO. P.I.N. NO.	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT
22727-0020		Pt Lt 129 German Company Tract Kitchener, Pt 3, WDR-296		20 x 10 (.020)	(m) Scotia Mortgage Corporation #WR708490
22692-0995		Pt LT 41 German Company Tract Pt 1 on 58R-16718 Waterloo		20 x 10 (.020)	(m) The Toronto Dominion Bank #WR630164
22685-0427		Blk 1-2 PL 1516, Waterloo s/t 710638, 735499		20 x 10 (.020)	Agreement - City of Waterloo #704962 & 710146 (e) Union Gas Limited #710638 (e) #735499 Notice of Lease Imasco R. I. Inc #773955 Little Short Stop Stores Limited #781623 Suecent Management Inc #787178 The Bank of Nova Scotia #843040 Good Life Corporation #WR531064
22728-0095		Pt Lt 129 German Company Tract Kitchener Pt Lt 133 German Company Tract Kitchener Pt Lt 134 German Company Tract Kitchener Pt 1, 58R2922 except Pt 1, 58R-4580 & Pt 9, 58R-16917		20 x 10 (.020)	
22462-0686		Blk 91 Pt 1551 Kitchener except Pt 1 Ex Plan WR170866 S/T ease for entry as in 834310		20 x 10 (.020)	Agreement - Regional Municipality of Waterloo #777547, #841155 Agreement - City of Kitchener #778523, #794917, #853108 Notice of Agreement- City of Kitchener #777580
22698-2154		Blk 116, 58M-474 Save & Except Pt 1, 58R-16696; S/T ease Pts 1-5 58R-15687 as in WR271658 Kitchener		20 x 10 (.020)	Notice WR3123656, #WR213417, WR237371 #WR254035; #WR435481 (m) The Toronto Dominion Bank #WR224755



For Internal Use Only
Lands File No.:
Cheque No.:
Project:
Acct No.:

PIPELINE EASEMENT

(the "Easement")

Between

(herein called the "Transferor")

and

UNION GAS LIMITED

(herein called the "Transferee")

This Easement is an easement in Gross

WHEREAS the Transferor is the owner in fee simple of those lands and premises more particularly described as:
PIN: Insert Legal (hereinafter called the "Transferor's Lands").

The Transferor does hereby GRANT, CONVEY, TRANSFER AND CONFIRM unto the Transferee, its successors and assigns, to be used and enjoyed as appurtenant to all or any part of the lands of the Transferee's lands the right, liberty, privilege and easement on, over, in, under and/or through a strip of the Transferor's Lands more particularly described as being PIN: Insert Legal Being Part of the PIN (hereinafter referred to as the "Lands") to survey, lay, construct, maintain, inspect, patrol, alter, remove, replace, reconstruct, repair, move, keep, use and/or operate one Pipe line for the transmission of pipeline quality natural gas as defined in The Ontario Energy Board Act S.O. 1998 (hereinafter referred to as the "Pipeline") including therewith all such buried attachments, equipment and appliances for cathodic protection which the Transferee may deem necessary or convenient thereto, together with the right of ingress and egress at any and all times over and upon the Lands for its servants, agents, employees, those engaged in its business, contractors and subcontractors on foot and/or with vehicles, supplies, machinery and equipment for all purposes necessary or incidental to the exercise and enjoyment of the rights, liberty, privileges and easement hereby granted. The Parties hereto mutually covenant and agree each with the other as follows:

1. In consideration of the sum of DOLLARS (\$) of lawful money of Canada (hereinafter called the "Consideration"), which sum is payment in full for the rights and interest hereby granted and for the rights and interest, if any, acquired by the Transferee by expropriation, including in either or both cases payment in full for all such matters as injurious affection to remaining lands and the effect, if any, of registration on title of this document and where applicable, of the expropriation documents, subject to Clause 12 hereof to be paid by the Transferee to the Transferor within 90 days from the date of these presents or prior to the exercise by the Transferee of any of its rights hereunder other than the right to survey (whichever may be the earlier date), the rights, privileges and easement hereby granted shall continue in perpetuity or until the Transferee, with the express written consent of the Transferor, shall execute and deliver a surrender thereof . Prior to such surrender Transferee shall remove all debris as may have resulted from the Transferee's use of the Lands from the Lands and in all respects restore the Lands to it's previous productivity and fertility so far as is reasonably possible , save and except for items in respect of which compensation is due under Clause 2. hereof. Transferor and Transferee hereby agree that nothing herein shall oblige Transferee to remove the Pipeline from the Lands as part of Transferee's obligation to restore the Lands.
2. The Transferee shall make to the Transferor (or the person or persons entitled thereto) due compensation for any damages to the Lands resulting from the exercise of any of the rights herein granted, and if the compensation is not agreed upon by the Transferee and the Transferor, it shall be determined by arbitration in the manner prescribed by the Expropriations Act, R.S.O. 1990, Chapter E-26 or any Act passed in amendment thereof or substitution therefore. Any gates, fences and tile drains curbs, gutters, asphalt paving, lockstone, patio tiles interfered with by the Transferee shall be restored by the Transferee at its expense as closely as reasonably possible to the condition and function in which they existed immediately prior to such interference by the Transferee and in the case of tile drains, such restoration shall be performed in accordance with good drainage practice and applicable government regulations.
3. The Pipeline (including attachments, equipment and appliances for cathodic protection but excluding valves, take-offs and fencing installed under Clause 9 hereof) shall be laid to such a depth that upon completion of installation it will not obstruct the natural surface run-off from the Lands nor ordinary cultivation of the Lands nor

any tile drainage system existing in the Lands at the time of installation of the Pipeline nor any planned tile drainage system to be laid in the Lands in accordance with standard drainage practice, if the Transferee is given at least thirty (30) days notice of such planned system prior to the installation of the pipeline; provided that the Transferee may leave the Pipeline exposed in crossing a ditch, stream, gorge or similar object where approval has been obtained from the Ontario Energy Board or other Provincial Board or authority having jurisdiction in the premises. The Transferee agrees to make reasonable efforts to accommodate the planning and installation of future tile drainage systems following installation of the pipeline so as not to obstruct or interfere with such tile installation.

4. As soon as reasonably possible after the construction of the Pipeline, the Transferee shall level the Lands and unless otherwise agreed to by the Transferor, shall remove all debris as may have resulted from the Transferee's use of the Lands therefrom and in all respects restore the Lands to its previous productivity and fertility so far as is reasonably possible, save and except for items in respect of which compensation is due under Clause 2 hereof.

5. The Transferee shall indemnify the Transferor for any and all liabilities, damages, costs, claims, suits and actions which are directly attributable to the exercise of the rights hereby granted, except to the extent of those resulting from the gross negligence or wilful misconduct of the Transferor.

6. In the event that the Transferee fails to comply with any of the requirements set out in Clause 2, 3, or 4 hereof within a reasonable time of the receipt of notice in writing from the Transferor setting forth the failure complained of, the Transferee shall compensate the Transferor (or the person or persons entitled thereto) for any damage, if any, necessarily resulting from such failure and the reasonable costs if any, incurred in the recovery of those damages.

7. Except in case of emergency, the Transferee shall not enter upon any of the Transferor's Lands, other than the Lands, without the consent of the Transferor. In case of emergency the right of entry upon the Transferor's Lands for ingress and egress to and from the Lands is hereby granted. The determination of what circumstances constitute an emergency, for purposes of this paragraph is within the absolute discretion of the Transferee, but is a situation in which the Transferee has a need to access the pipeline in the public interest without notice to the Transferor, subject to the provisions of paragraph 2 herein. The Transferee will, within 72 hours of entry upon such lands, advise the Transferor of the said emergency circumstances and thereafter provide a written report to Transferor with respect to the resolution of the emergency situation. The Transferee shall restore the lands of the Transferor at its expense as closely as reasonably practicable to the condition in which they existed immediately prior to such interference by the Transferee and in the case of tile drains, such restoration shall be performed in accordance with good drainage practice.

8. The Transferor shall have the right to fully use and enjoy the Lands except for planting trees over the lesser of the Lands or a six (6) metre strip centered over the Pipeline, and except as may be necessary for any of the purposes hereby granted to the Transferee, provided that without the prior written consent of the Transferee, the Transferor shall not excavate, drill, install, erect or permit to be excavated, drilled, installed or erected in, on, over or through the Lands any pit, well, foundation, pavement, building, mobile homes or other structure or installation. Notwithstanding the foregoing the Transferee upon request shall consent to the Transferor erecting or repairing fences, hedges, pavement, lockstone constructing or repairing tile drains and domestic sewer pipes, water pipes, and utility pipes and constructing or repairing lanes, roads, driveways, pathways, and walks across, on and in the Lands or any portion or portions thereof, provided that before commencing any of the work referred to in this sentence the Transferor shall (a) give the Transferee at least (30) clear days notice in writing describing the work desired so as to enable the Transferee to evaluate and comment on the work proposed and to have a representative inspect the site and/or be present at any time or times during the performance of the work, (b) shall follow the instructions of such representative as to the performance of such work without damage to the Pipeline, (c) shall exercise a high degree of care in carrying out any such work and, (d) shall perform any such work in such a manner as not to endanger or damage the Pipeline as may be required by the Transferee.

9. The rights, privileges and easement herein granted shall include the right to install, keep, use, operate, service, maintain, repair, remove and/or replace in, on and above the Lands any valves and/or take-offs subject to additional agreements and to fence in such valves and/or take-offs and to keep same fenced in, but for this right the Transferee shall pay to the Transferor (or the person or persons entitled thereto) such additional compensation as may be agreed upon and in default of agreement as may be settled by arbitration under the provisions of The Ontario Energy Board Act, S.O. 1998, or any Act passed in amendment thereof or substitution thereof. The Transferee shall keep down weeds on any lands removed from cultivation by reason of locating any valves and/or take-offs in the Lands.

10. Notwithstanding any rule of law or equity and even though the Pipeline and its appurtenances may become annexed or affixed to the realty, title thereto shall nevertheless remain in the Transferee.

11. Neither this Agreement nor anything herein contained nor anything done hereunder shall affect or prejudice the Transferee's rights to acquire the Lands or any other portion or portions of the Transferor's lands under the provisions of The Ontario Energy Board Act, S.O. 1998, or any other laws, which rights the Transferee may exercise at its discretion in the event of the Transferor being unable or unwilling for any reason to perform this Agreement or give to the Transferee a clear and unencumbered title to the easement herein granted.

12. The Transferor covenants that he has the right to convey this easement notwithstanding any act on his part, that he will execute such further assurances of this easement as may be requisite and which the Transferee may at its expense prepare and that the Transferee, performing and observing the covenants and conditions on its part

to be performed, shall have quiet possession and enjoyment of the rights, privileges and easement hereby granted. If it shall appear that at the date hereof the Transferor is not the sole owner of the Lands, this Indenture shall nevertheless bind the Transferor to the full extent of his interest therein and shall also extend to any after-acquired interest, but all moneys payable hereunder shall be paid to the Transferor only in the proportion that his interest in the Lands bears to the entire interest therein.

13. In the event that the Transferee fails to pay the consideration as hereinbefore provided, the Transferor shall have the right to declare this easement cancelled after the expiration of 15 days from personal service upon the Secretary, Assistant Secretary or Manager, Lands Department of the Transferee at its Executive Head Office in Chatham, Ontario, (or at such other point in Ontario as the Transferee may from time to time specify by notice in writing to the Transferor) of notice in writing of such default, unless during such 15 day period the Transferee shall pay the said consideration; upon failing to pay as aforesaid, the Transferee shall forthwith after the expiration of 15 days from the service of such notice execute and deliver to the Transferor at the expense of the Transferee, a valid and registerable release and discharge of this easement.

14. All payments under these presents may be made either in cash or by cheque of the Transferee and may be made to the Transferor (or person or persons entitled thereto) either personally or by mail. All notices and mail sent pursuant to these presents shall be addressed to the Transferor at _____ and to the Transferee at Union Gas Limited, P.O.Box 2001, 50 Keil Drive North, Chatham, Ontario N7M 5M1. Attention: Manager, Lands or to such other address in either case as the Transferor or the Transferee respectively may from time to time appoint in writing.

15. The rights, privileges and easement hereby granted are and shall be of the same force and effect as a covenant running with the land and this Indenture, including all the covenants and conditions herein contained, shall extend to, be binding upon and enure to the benefit of the heirs, executors, administrators, successors and assigns of the Parties hereto respectively; and, wherever the singular or masculine is used it shall, where necessary, be construed as if the plural, or feminine or neuter had been used, as the case may be.

16. The Transferor hereby acknowledges that this transfer will be registered electronically and the Transferor hereby authorizes the Transferee to complete the registration of this transfer.

DATED this _____ day of January 2010

Name & Title:

I have authority to bind the corporation

Name & Title:

I have authority to bind the corporation

Address:

UNION GAS LIMITED

**Name: Mervyn R. Weishar
Senior Lands Agent**

I have authority to bind the Corporation

Additional Information: (if applicable)

Solicitor:

Telephone:

Municipality of Chatham-Kent

Province of Ontario

DECLARATION REQUIRED UNDER
SECTION 50 OF THE PLANNING
ACT, R.S.O. 1990, as amended

I, Mervyn R. Weishar, of the City of Municipality of Chatham-Kent , in the Province of Ontario.

DO SOLEMNLY DECLARE THAT

1. I am, Senior Lands Agent Lands Department of Union Gas Limited, the Transferee in the attached Grant of Easement and as such have knowledge of the matters herein deposed to.

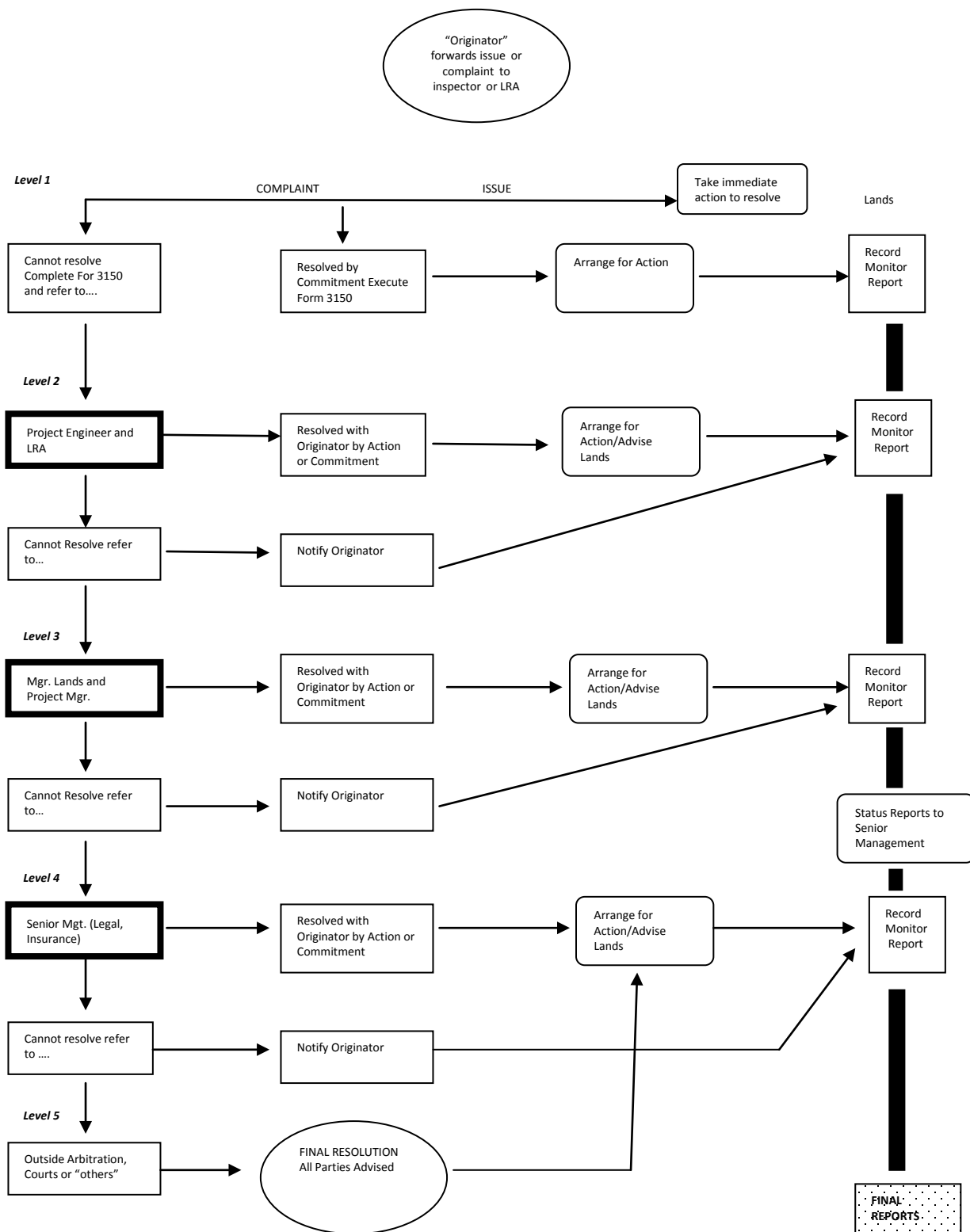
2. The use of or right in the land described in the said Grant of Easement is being acquired by Union Gas Limited for the purpose of a hydrocarbon transmission line within the meaning of part VI of the Ontario Energy Board Act , 1998.

AND I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath, and by virtue of The Canada Evidence Act.

DECLARED before me at the
Municipality of Chatham-Kent,
in the Province of Ontario

this day of January ,2010

A Commissioner, etc.



1. "originator" of complaint or issue may be landowner or company representative
2. Parties indicated in heavy outlined boxes shall assume responsibility for actions subsequently required in the resolution process. Parties identified in brackets may only be required for resolution or specific technical concerns
3. "L.R.A." refers to Landowner Relations Agent

LANDOWNER COMPLAINT RESOLUTION SYSTEM EXPLANATION OF PROCESS CHART

Key Definitions

Originator – The originator of a complaint or issue is the landowner or Union Gas personnel who initiates a complaint or issue by making it known to the Landowner Relations Agent or a company inspector.

Landowner Relations Agent (LRA) – A person assigned on a full time or part time basis to record, monitor, and ensure follow-up on any complaint or issue received by Union related to construction, to address questions and concerns of the landowners, and to act as a liaison between landowners and the contractor and engineering personnel.

Issue – A concern of a landowner which can be resolved within three (3) working days. Immediate action is taken to resolve such matters.

Complaint – A concern of a landowner which cannot be resolved within three (3) working days.

Commitment – If an issue or complaint is resolved at any level of the Complaint Resolution system through the efforts and liaison activities of the Landowner Relations Agent or other personnel, the resolution is recorded to ensure proper future follow-up.

Outside Arbitration – includes the Board of Negotiation, O.M.B., and O.E.B.

Others – refers to other regulatory bodies and tribunals

Levels of the Complaint Resolution System

Level 1: The LRA or company inspector receives issues or complaints, and the following can happen:

- a) Immediate action could be arranged by the LRA or inspector to resolve the issue or complaint; or
- b) A complaint can be resolved by a commitment in which case the LRA is responsible for arranging for the committed action and having the commitment recorded in the Complaint Resolution system; or
- c) If a complaint cannot be resolved through the efforts of the LRA or inspector, the applicable form (Form 3150) is completed and then recorded, and the complaint is referred to **Level 2**.

Level 2: The LRA and the Construction Supervisor work together to develop a resolution for the complaint, and the following can happen:

- a) the complaint may be resolved with the originator by action or commitment and the action or commitment is recorded in the Complaint Resolution System; or
- b) if the complaint cannot be resolved, the originator is notified, the non-resolution is recorded, and the complaint is referred to **Level 3**.

Level 3: The Manager, Lands and the Project Manager work together to develop a resolution for the complaint, and the following can happen:

- a) complaint may be resolved with the originator by action or commitment and the action or commitment is recorded in the Complaint Resolution System; or
- b) if the complaint cannot be resolved, the originator is notified, the non-resolution is recorded, and the complaint is referred to **Level 4**;

When complaints reach this level, status reports are generated through the Complaint Resolution System and are forwarded to Senior Management.

Level 4: Senior Management (with possible input from the Legal and Risk and Claims Departments) attempts to develop a resolution to the complaint, and the following can happen:

- a) the complaint may be resolved with the originator by action or commitment and the action or commitment is recorded in the Complaint Resolution System; or
- b) if the complaint cannot be resolved, the originator is notified, the non-resolution is recorded, and the complaint is referred to **Level 5**;

Level 5: Involves the resolution of a complaint by outside arbitration or others, and the following will happen:

A final resolution will occur, all parties will be advised, and any action required will be arranged by the LRA or other Lands Department personnel.

Note: the Complaint Resolution System is used to generate final reports to the Ontario Energy Board

Summary of Comments

TO BE FILED WHEN RECEIVED

TOTAL ESTIMATED ENVIRONMENTAL COSTS

**OWEN SOUND REPLACEMENT
PIPELINE PROJECT**

Pre-Construction

Environmental Assessment	\$	50,000
Archaeology		50,000
Soil Sampling		6,000
Hearing Costs (Environmental Consultant)		5,000
Surveys (fish, wildlife, plants)		5,000
Permits		<u>20,000</u>

Total Pre-Construction \$ **136,000**

Construction

Environmental Inspection	\$	20,000
Stream Crossings		10,000
Site Restoration		124,000
Water Well Sampling		<u>20,000</u>

Total Construction \$ **174,000**

Post Construction

Site Restoration	\$	496,000
Tree Replacement		<u>25,000</u>

Total Post Construction \$ **521,000**

Total Estimated Environmental Costs \$ **831,000**

Patrick, Mary Jane

From: Bonin, John
Sent: June-20-12 8:28 AM
To: hankr@metisnation.org
Subject: Proposed Owen Sound Pipeline Replacement Project
Attachments: Figure 1.pdf; Metis Nation of Ontario no figure.pdf

Hank, will Melanie no longer at MNO I didn't know who to send this to? Would you ensure this email is forwarded to the appropriate person? Thanks

On May 7th, Lands Resource and Consultation would have received the following information from Azimuth Environmental Consulting about a proposed project that Union Gas is undertaking in the Kitchener-Waterloo area. Union Gas will be installing approximately 24km of 12" pipe replacing the existing pipeline along the various road allowances. The proposed project is still being studied and an Environmental assessment is under way. Part of the information gathering process is to hold an open house for the nearby landowners. The open house will likely be held mid-summer in the Kitchener Waterloo area. I wanted to let you in advance of any publication of the open house information and to see if you require any further information regarding the project?

Look forward to hearing back from you!

Thanks!

John Bonin

Manager Aboriginal Affairs

Union Gas

Phone: 519-539-8509 ext 5021063

Email: jbonin@uniongas.com



Environmental Assessments & Approvals

May 7, 2012

AEC 12-091

Metis Nation of Ontario
Lands Resources and Consultation Branch
500 Old St. Patrick Street, Unit D
Ottawa, ON K1N 9G4

Attention: Sir/Madame

RE: Environmental Report Commencement - Union Gas Limited
Owen Sound Pipeline Project

Dear Sir/Madame:

Azimuth Environmental Consulting, Inc. has been retained by Union Gas Limited to prepare an Environmental Report (ER) for the Owen Sound Pipeline Project. The project will potentially include the replacement the existing NPS 12 inch steel Owen Sound natural gas pipeline with a new NPS 12 pipeline. The project will originate at the Owen Sound Valve Site (OSV) located on Northumberland Road just south of Highway 401 in Lot 34, Con. 9 in the Township of North Dumfries and terminate at the Waterloo Gate Station on Fischer – Hallman Rd. in the City of Waterloo both, Region of Waterloo. The project will be approximately 24 km in length (see attached Figure 1). Approximately 12km of the pipeline will be removed and replaced with the new pipeline in the same trench within the existing easement between OSV to Bleams Road. Due to the location of the remainder of the existing pipeline within residential settings, it will be decommissioned in place.

The proposed new pipeline will be within road allowance along Bleams Rd. and will proceed west to Trussler Rd./Ira Needles Blvd. where it will then proceed north to Erb St. W, then turn east to Fischer – Hallman Rd and north to the Waterloo Gate Station. There will also be a 2km section that will extend from Bleams Rd. north along Fischer – Hallman Rd. to the Kitchener Gate Station. Please see attached map Figure 2 for new pipeline location.

The study area is located in the Region of Waterloo within the Township of North Dumfries, Township of Wilmot, City of Kitchener and City of Waterloo.




A Public Information Session regarding the proposed project is planned to be held in summer of 2012. A notice will be placed in local newspapers and First Nations, Métis Nation, interested agencies and directly affected landowners will be informed by mail.

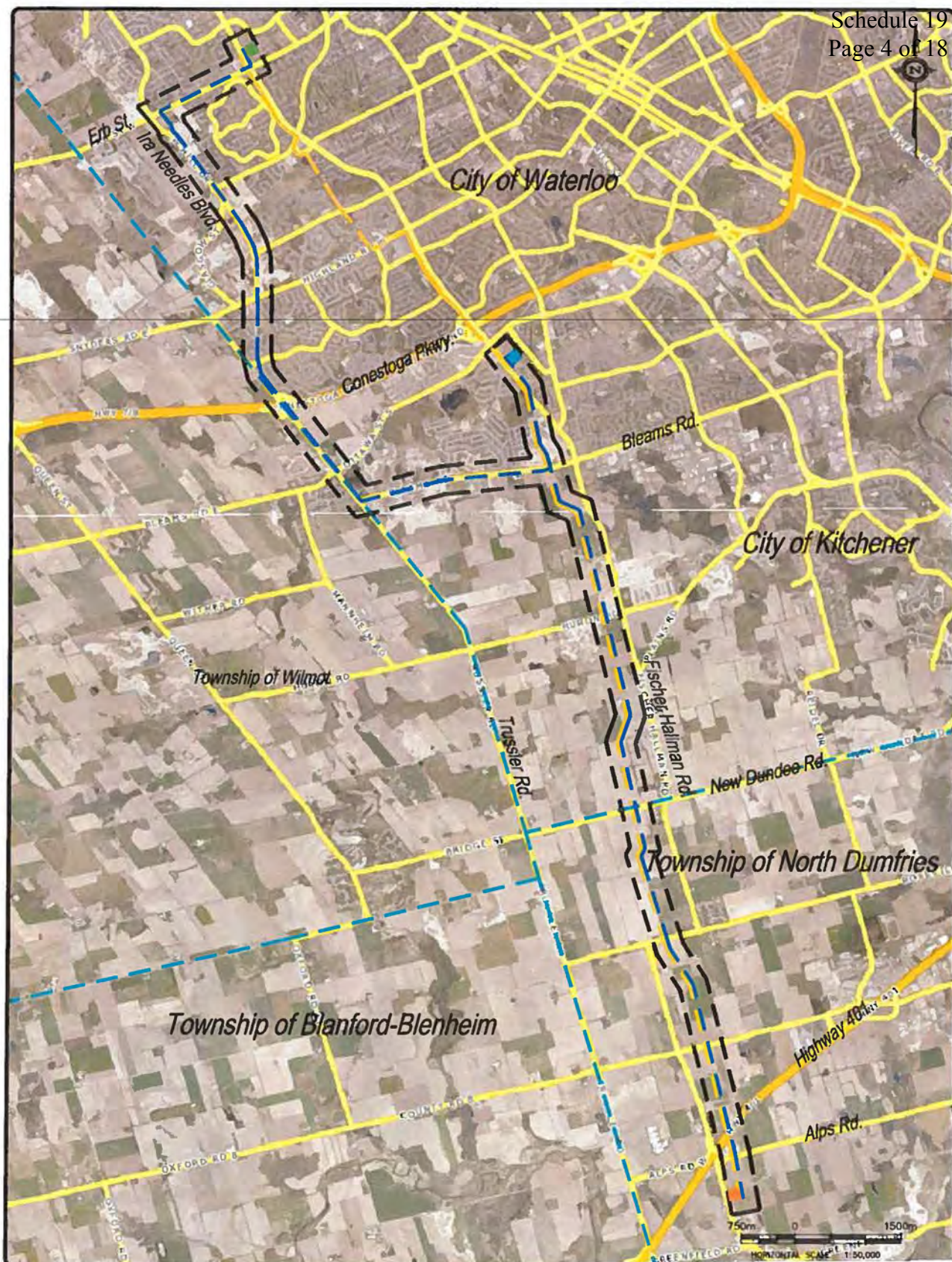
We are requesting that you provide any relevant environmental or socioeconomic information that in your opinion should be included in the assessment of alternative pipeline routes

Your response would be appreciated by July 1st, 2012. If you has no concerns regarding the proposed project and/or its construction and you do not require any further correspondence regarding the project please indicate that in writing to the undersigned.

If you have any questions, please contact me at (705) 721-8451 or by email at paul@azimuthenvironmental.com. Thank you for your cooperation.

Yours truly,
AZIMUTH ENVIRONMENTAL CONSULTING, INC.


Paul Neals, B.Sc.Agr.
Vice-President
Attach.



LEGEND

- Proposed Study Area
- Proposed Replacement Owen Sound Line
- - - Existing Owen Sound Line
- - - Municipal Boundaries
- Existing Waterloo Gate Station
- Existing Kitchener Gate Station
- Existing Owen Sound Valve Site

JAYSTAMP: M:\12 Projects\12-091 Owen Sound Replacement\04.0 - Drafting\12-091.dwg
 Plotted by: JLM on May 7, 2012 at 12:42
 File: M:\12 Projects\12-091 Owen Sound Replacement\04.0 - Drafting\12-091.dwg Layout: Figure 1 PlotScale: 250

AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Study Area

Owen Sound Pipeline Project
Kitchener, ON

DATE ISSUED: April 2012	Figure No.
CREATED BY: JLM	1
PROJECT NO: 12-091	
REFERENCE: First Base Solutions	

Patrick, Mary Jane

From: Bonin, John
Sent: June-20-12 8:19 AM
To: Chief Bill Montour ; Lonny Bomberry
Subject: Proposed Owen Sound Pipeline Replacement Project
Attachments: Six Nations of the Grand River. no figurepdf.pdf; Figure 1.pdf

Chief Montour/Lonny:

On May 7th, you would have received the following information from Azimuth Environmental Consulting about a proposed project that Union Gas is undertaking in the Kitchener-Waterloo area. Union Gas will be installing approximately 24km of 12" pipe replacing the existing pipeline along the various road allowances. The proposed project is still being studied and an Environmental assessment is under way. Part of the information gathering process is to hold an open house for the nearby landowners. The open house will likely be held mid-summer in the Kitchener Waterloo area. I wanted to let you in advance of any publication of the open house information and to see if you require any further information regarding the project?

Look forward to hearing back from you!

Thanks!

John Bonin

Manager Aboriginal Affairs

Union Gas

Phone: 519-539-8509 ext 5021063

Email: jbodin@uniongas.com



Environmental Assessments & Approvals

May 7, 2012

AEC 12-091

Six Nations of the Grand River
1695 Chiefswood Road
P.O. Box 5000
Ohsweken, ON N0A 1M0

Attention: Chief William (Bill) Kenneth Montour

RE: Environmental Report Commencement - Union Gas Limited
Owen Sound Pipeline Project

Dear Chief Montour:

Azimuth Environmental Consulting, Inc. has been retained by Union Gas Limited to prepare an Environmental Report (ER) for the Owen Sound Pipeline Project. The project will potentially include the replacement the existing NPS 12 inch steel Owen Sound natural gas pipeline with a new NPS 12 pipeline. The project will originate at the Owen Sound Valve Site (OSV) located on Northumberland Road just south of Highway 401 in Lot 34, Con. 9 in the Township of North Dumfries and terminate at the Waterloo Gate Station on Fischer – Hallman Rd. in the City of Waterloo both, Region of Waterloo. The project will be approximately 24 km in length (see attached Figure 1). Approximately 12km of the pipeline will be removed and replaced with the new pipeline in the same trench within the existing easement between OSV to Bleams Road. Due to the location of the remainder of the existing pipeline within residential settings, it will be decommissioned in place.

The proposed new pipeline will be within road allowance along Bleams Rd. and will proceed west to Trussler Rd./Ira Needles Blvd. where it will then proceed north to Erb St. W, then turn east to Fischer – Hallman Rd and north to the Waterloo Gate Station. There will also be a 2km section that will extend from Bleams Rd. north along Fischer – Hallman Rd. to the Kitchener Gate Station. Please see attached map Figure 2 for new pipeline location.

The study area is located in the Region of Waterloo within the Township of North Dumfries, Township of Wilmot, City of Kitchener and City of Waterloo.




A Public Information Session regarding the proposed project is planned to be held in summer of 2012. A notice will be placed in local newspapers and First Nations, Métis Nation, interested agencies and directly affected landowners will be informed by mail.

We are requesting that you provide any relevant environmental or socioeconomic information that in your opinion should be included in the assessment of alternative pipeline routes

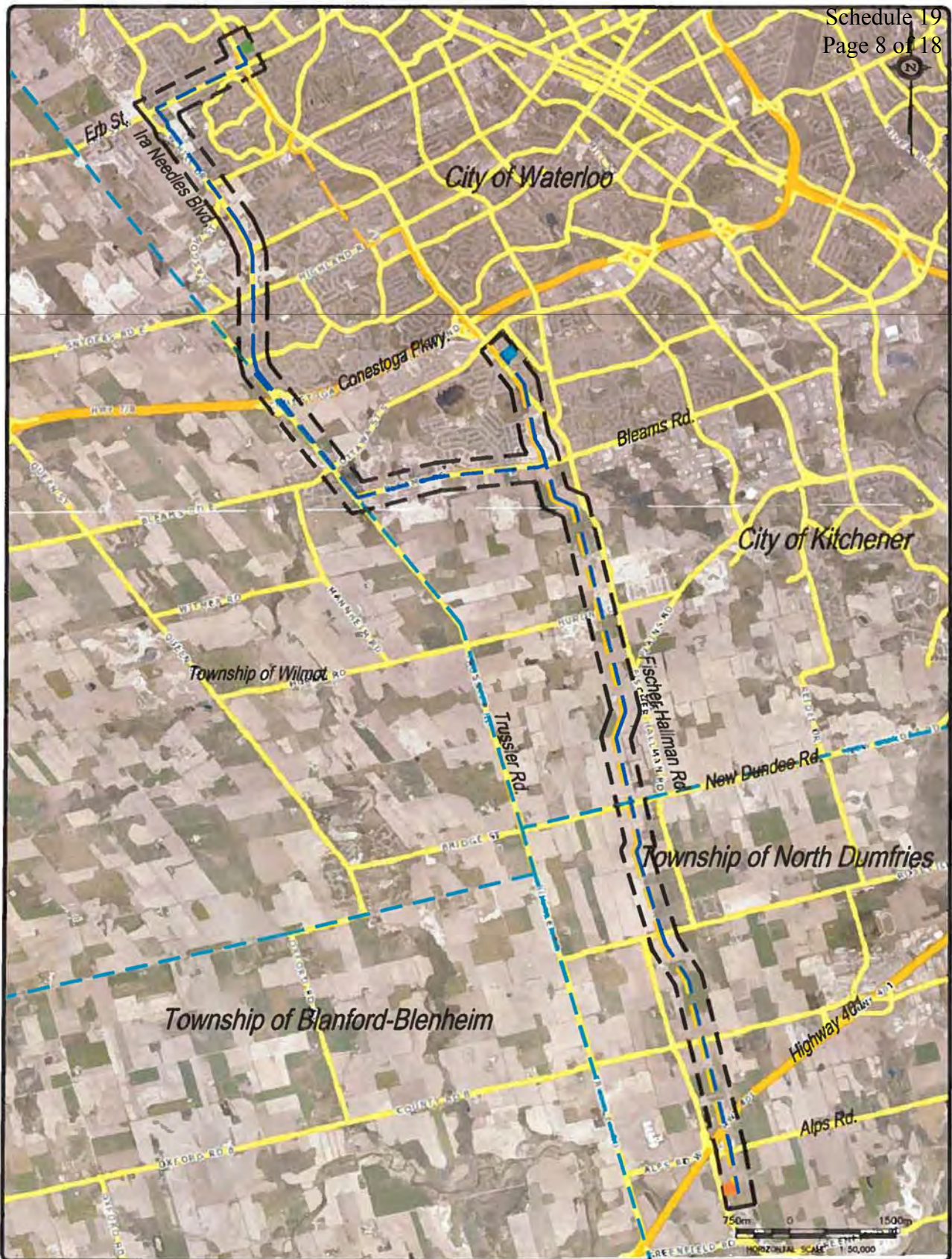
Your response would be appreciated by July 1st, 2012. If you has no concerns regarding the proposed project and/or its construction and you do not require any further correspondence regarding the project please indicate that in writing to the undersigned.

If you have any questions, please contact me at (705) 721-8451 or by email at paul@azimuthenvironmental.com. Thank you for your cooperation.

Yours truly,
AZIMUTH ENVIRONMENTAL CONSULTING, INC.



Pau Neals, B.Sc.Agr.
Vice-President
Attach.



LEGEND

- Proposed Study Area
- Proposed Replacement Owen Sound Line
- Existing Owen Sound Line
- Municipal Boundaries
- Existing Waterloo Gate Station
- Existing Kitchener Gate Station
- Existing Owen Sound Valve Site

JAYSTAMP: M:\12 Projects\12-091 Owen Sound Replacement\04.0 - Drafting\12-091.dwg
 Printed by: SECURIFY on May 7, 2013 at 12:45pm
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AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Study Area

Owen Sound Pipeline Project
Kitchener, ON

DATE ISSUED: April 2012	Figure No.
CREATED BY: JLM	1
PROJECT NO.: 12-091	
REFERENCE: First Base Solutions	

Patrick, Mary Jane

From: Bonin, John
Sent: June-20-12 8:30 AM
To: Chief Bryan LaForme ; Carolyn King
Subject: Proposed Owen Sound Pipeline Replacement Project
Attachments: Figure 1.pdf; Mississauga's of the New Credit no figure.pdf

Chief LaForme/Carolyn:

On May 7th, you would have received the following information from Azimuth Environmental Consulting about a proposed project that Union Gas is undertaking in the Kitchener-Waterloo area. Union Gas will be installing approximately 24km of 12" pipe replacing the existing pipeline along the various road allowances. The proposed project is still being studied and an Environmental assessment is under way. Part of the information gathering process is to hold an open house for the nearby landowners. The open house will likely be held mid-summer in the Kitchener Waterloo area. I wanted to let you in advance of any publication of the open house information and to see if you require any further information regarding the project?

Look forward to hearing back from you!

Miigwech!

John Bonin

Manager Aboriginal Affairs

Union Gas

Phone: 519-539-8509 ext 5021063

Email: jbonin@uniongas.com



Environmental Assessments & Approvals

May 7, 2012

AEC 12-091

Mississauga's of the New Credit
2789 Mississauga Road
RR 6
Hagersville, ON N0A 1H0

Attention: Chief M. Bryan LaForme

RE: Environmental Report Commencement - Union Gas Limited
Owen Sound Pipeline Project

Dear Chief LaForme:

Azimuth Environmental Consulting, Inc. has been retained by Union Gas Limited to prepare an Environmental Report (ER) for the Owen Sound Pipeline Project. The project will potentially include the replacement the existing NPS 12 inch steel Owen Sound natural gas pipeline with a new NPS 12 pipeline. The project will originate at the Owen Sound Valve Site (OSV) located on Northumberland Road just south of Highway 401 in Lot 34, Con. 9 in the Township of North Dumfries and terminate at the Waterloo Gate Station on Fischer – Hallman Rd. in the City of Waterloo both, Region of Waterloo. The project will be approximately 24 km in length (see attached Figure 1). Approximately 12km of the pipeline will be removed and replaced with the new pipeline in the same trench within the existing easement between OSV to Bleams Road. Due to the location of the remainder of the existing pipeline within residential settings, it will be decommissioned in place.

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A Public Information Session regarding the proposed project is planned to be held in summer of 2012. A notice will be placed in local newspapers and First Nations, Métis Nation, interested agencies and directly affected landowners will be informed by mail.

We are requesting that you provide any relevant environmental or socioeconomic information that in your opinion should be included in the assessment of alternative pipeline routes

Your response would be appreciated by July 1st, 2012. If you has no concerns regarding the proposed project and/or its construction and you do not require any further correspondence regarding the project please indicate that in writing to the undersigned.

If you have any questions, please contact me at (705) 721-8451 or by email at paul@azimuthenvironmental.com. Thank you for your cooperation.

Yours truly,
AZIMUTH ENVIRONMENTAL CONSULTING, INC.

A handwritten signature in blue ink that reads "Paul Neals". The signature is written in a cursive style.

Paul Neals, B.Sc.Agr.
Vice-President
Attach.



LEGEND

- Proposed Study Area
- Proposed Replacement Owen Sound Line
- Existing Owen Sound Line
- Municipal Boundaries
- Existing Waterloo Gate Station
- Existing Kitchener Gate Station
- Existing Owen Sound Valve Site

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AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Study Area

**Owen Sound Pipeline Project
Kitchener, ON**

DATE ISSUED: April 2012	Figure No.
CREATED BY: JLM	1
PROJECT NO.: 12-091	
REFERENCE: First Base Solutions	

Patrick, Mary Jane

From: Bonin, John
Sent: August-07-12 8:55 AM
To: Joanne Thomas; Lonny Bomberry
Subject: Capacity Funding Agreement
Attachments: Capacity Funding Agreement Draft.doc.docx

Here is the CFA that we used for the Nanticoke Project with a few minor edits. It has been through our legal dept. previously so I am comfortable with the document for the two projects that we discussed last week that need to be consulted on. The budget for the Capacity funding is the only missing piece which you are putting a proposal together for...

Thanks...

Joanne, hope you are feeling better!!

John

September 10, 2012

Hazel Hill
Haudenosaunee Development Institute
Interim Executive Director
16 Sunrise Court, Suite 417
P.O. Box 714
Ohsweken, Ontario
NOA 1M0

Dear Hazel;

RE: Environmental Report Commencement - Owen Sound Pipeline Project

Dear Hazel:

Azimuth Environmental Consulting, Inc. has been retained by Union Gas Limited to prepare an Environmental Report (ER) for the Owen Sound Pipeline Project. The project will potentially include the replacement of the existing NPS 12 inch steel Owen Sound natural gas pipeline with a new NPS 12 pipeline. The project will originate at the Owen Sound Valve Site (OSV) located on Northumberland Road just south of Highway 401 in Lot 34, Con. 9 in the Township of North Dumfries and terminate at the Waterloo Gate Station on Fischer – Hallman Rd. in the City of Waterloo both, Region of Waterloo. The project will be approximately 24 km in length (see attached map). Approximately 12km of the pipeline will be removed and replaced with the new pipeline in the same trench within the existing easement between OSV to Bleams Road. Due to the location of the remainder of the existing pipeline within residential settings, it will be safely decommissioned in place.

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The study area is located in the Region of Waterloo within the Township of North Dumfries, Township of Wilmot, City of Kitchener and City of Waterloo. A Stage 2 Archeology Assessment will be required to complete the report. We have also initiated discussions with the Six Nations Consultation Committee.

The OEB's approval is required before this project can proceed. An application to the Ontario Energy Board (OEB) is planned to be submitted later in 2012 or early 2013. If approved, construction is planned for later 2013 and 2014.

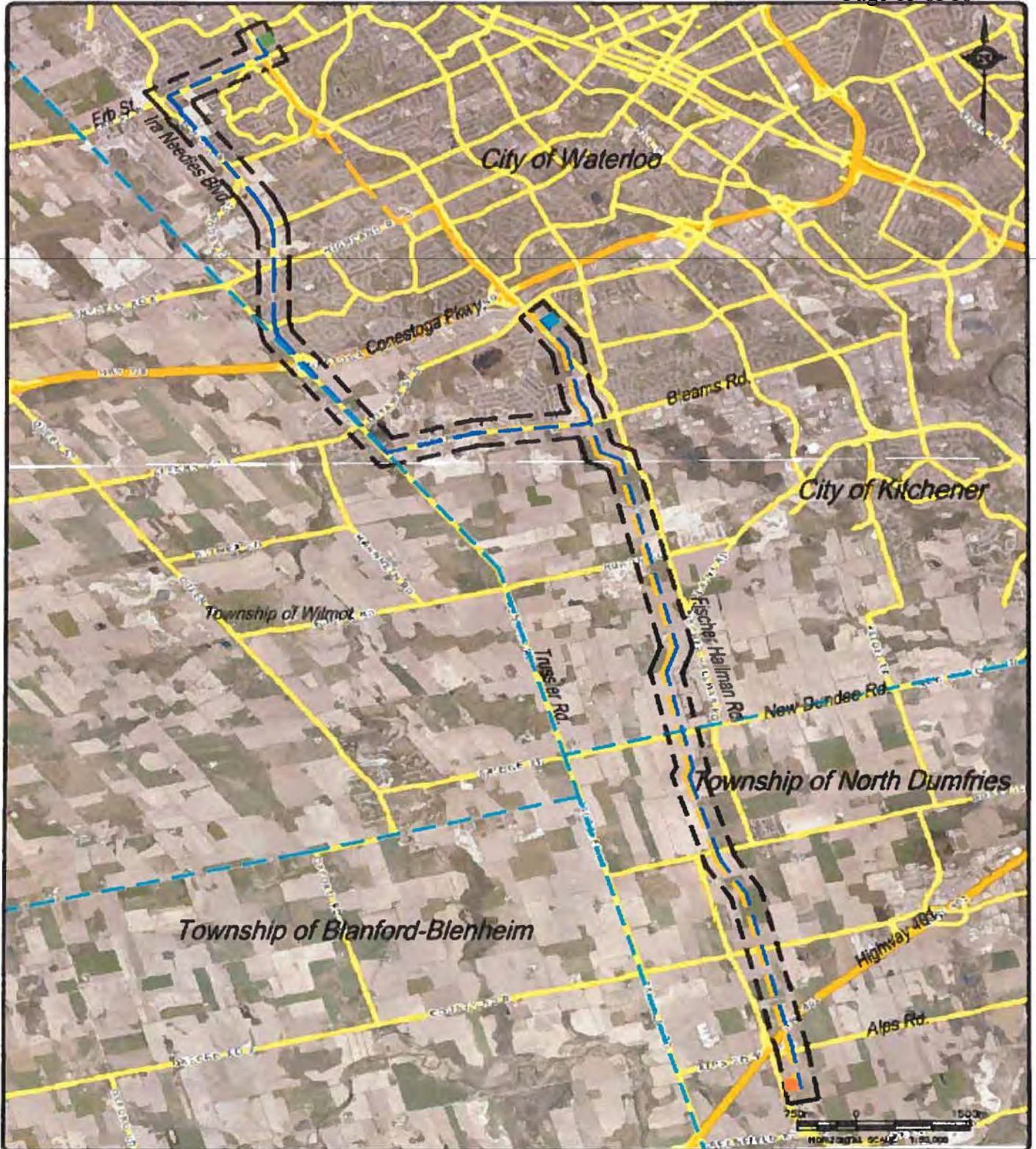
Should you have any questions or comments, please do not hesitate to contact me at the number listed below.

Yours truly,

John Bonin
Manager First Nations and Métis Affairs, Union Gas
Box 5353 Station A
London Ont. N6A 4P1
Phone: 519-539-8509 ext 5021063

jbonin@uniongas.com

P.O. Box 2001, 50 Keil Drive North, Chatham, ON, N7M 5M1 www.uniongas.com
Union Gas Limited



LEGEND

- Proposed Study Area
- Proposed Replacement Owen Sound Line
- Existing Owen Sound Line
- Municipal Boundaries
- Existing Waterloo Gate Station
- Existing Kitchener Gate Station
- Existing Owen Sound Valve Site

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AGRIUM ENVIRONMENTAL CONSULTING, INC.

Study Area

Owen Sound Pipeline Project
 Kitchener, ON

DATE ISSUED: April 2012	Figure No.:
CREATED BY: JEM	1
PROJECT NO: 1012	
REFERENCE: First Rate Solutions	

Patrick, Mary Jane

From: Bonin, John
Sent: September-21-12 10:17 AM
To: Haudenosaunee Development Institute
Subject: Union Gas Pipeline Projects

Good Morning Hazel:

Thanks for your emails of September 17, 2012 regarding the 3 projects that Union Gas is undertaking.

Here is an update on the status of the Environmental/Archeological process for each one:

Brantford Kirkwall:

[REDACTED]

Owen Sound Line Replacement Project:

The EA will be completed in mid October and a Stage 2 Archeology study will be completed in early October. Once the EA is finalized, we will send you a copy of the report. During our discussions with the Six Nations Consultation Committee and New Credit Consultation committee, they requested a monitor on site during the Stage 2 process. Would the HDI also wish to have one of their monitors present during the Stage 2 study?

Parkway West Project:

[REDACTED]

The registered Archeology Consultants completing these studies on our behalf have assured us that we will meet all the Ministry's guidelines for Archeological Studies and Union Gas will share all of those reports with the First Nation and the Haudenosaunee Confederacy upon their completion. As I mentioned above, we would welcome a monitor from the HDI to be present during the upcoming field work.

Union Gas is committed to engaging the Haudenosaunee, Six Nations and Mississaugas of New Credit in our projects that are within their various Treaty and Traditional Lands. In lieu of completing a Permit for each of these projects with the HDI, Union Gas will commit to an entering into an Engagement Process and provide an alternative amount of capacity funding to offset the costs for the review process of these projects.

I look forward to our future discussions on these projects.

John

Patrick, Mary Jane

From: Joanne Thomas [jthomas@sixnations.ca]
Sent: October-01-12 10:50 AM
To: Bonin, John
Subject: re: CFA
Attachments: Union Gas OS - K - Sept.25 draft.docx

Morning John,

Please find attached the first draft of CFA for the Owen Sound and Kirkwall pipelines. Of course, it is open for discussion.

Thanks.

JT

Joanne Thomas, B.A. Hon.
Consultation Point Person
Six Nations Lands and Resources
T: 519-445-2563
F: 519-445-0242
E: jthomas@sixnations.ca

This information is directed in confidence solely to the person named above and may not otherwise be distributed, copied or disclosed. Therefore, this information should be considered strictly confidential. If you have received this message in error, please notify me immediately and delete this message.

Patrick, Mary Jane

From: Bonin, John
Sent: October-19-12 9:52 AM
To: 'carolyn.king@newcreditfirstnation.com'; Chief Bryan LaForme
Subject: RE: Draft Capacity Funding Agreement

Good morning Carolyn and Chief LaForme:

Has there been any more discussion on our past discussions on Capacity Funding and Union Gas' offer to provide the capacity support?

Miigwetch!

John

From: Bonin, John
Sent: August-07-12 9:42 AM
To: 'carolyn.king@newcreditfirstnation.com'; Chief Bryan LaForme
Subject: Draft Capacity Funding Agreement

Chief LaForme/Carolyn:

Thank you for meeting with me on Wednesday Aug. 1st to discuss the four pipeline projects that Union Gas is proposing for construction.

I fully understand your concerns with having the Capacity to complete the necessary reviews of these projects while trying to manage all of the other projects that are in front of you on a daily basis. To assist in completing your workload, I have included a Draft Capacity Funding agreement for your review that provides a \$XXX support fund to hire the necessary personnel to complete your work. The Draft agreement is one I have used in the past and contains more "legalize" that I would prefer but I would be open to review another one you may have in place with another proponent. This one has been reviewed and accepted by our legal team for another project.

Please let me know how you would like to proceed?

Thanks again!

John