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September 02, 2020

VIA EMAIL and RESS

Ms. Christine Long
Board Secretary
Ontario Energy Board
2300 Yonge Street, 27th Floor
Toronto, ON M4P 1E4

Dear Ms. Long:

**Re: Enbridge Gas Inc. (Enbridge Gas)
Ontario Energy Board (Board) File No.: EB-2020-0192
London Line Replacement Project – Application and Evidence - REDACTED**

Enclosed please find a redacted application and evidence for the London Line Replacement Project (Project).

In accordance with the OEB's revised Practice Direction on Confidential Filings effective October 28, 2016, all personal information has been redacted from the following exhibit:

- Exhibit E, Tab 2, Schedule 1 – Detailed Map of Project Route;
- Exhibit E, Tab 2, Schedule 2 – Landowner List; and
- Exhibit G, Tab 2, Schedule 2 – Indigenous Consultation Report – Log and Project Correspondence.

The confidential Exhibits will be sent separately via email to the OEB.

Please contact the undersigned if you have any questions.

Yours truly,

(Original Digitally Signed)

Rakesh Torul
Technical Manager, Regulatory Applications

A – General

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			3. Sufficiency Letter (Placeholder)
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G	2	1	Indigenous Consultation Report: Summary Tables
		2	Indigenous Consultation Report: Log and Project Correspondence (Redacted)

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 (1) and s.97 thereof;

AND IN THE MATTER OF an Application by Enbridge Gas Inc. for an Order granting leave to construct natural gas pipelines and ancillary facilities in County of Lambton, the Township of Dawn-Euphemia, Middlesex County, the Municipality of Southwest Middlesex, the Municipality of Strathroy-Caradoc and the Municipality of Middlesex Centre

LEAVE TO CONSTRUCT APPLICATION: LONDON LINE REPLACEMENT PROJECT

1. Enbridge Gas Inc. (the “Applicant” or “Enbridge Gas”) hereby applies to the Ontario Energy Board (the “OEB” or “Board”), pursuant to Section 90 (1) of the *Ontario Energy Act, 1988* (the “Act”) for an Order granting leave to construct approximately 51.5 kilometres of Nominal Pipe Size (“NPS”) 4 pipeline and 39 kilometres of NPS 6 pipeline to replace the existing London Lines (“London Line Replacement Project”, “Proposed Pipeline” or “the Project”).
2. Enbridge Gas also applies to the OEB pursuant to Section 97 of the Act for an Order approving the form of easement agreements found at Exhibit E, Tab 2, Schedule 3 and Exhibit E, Tab 2, Schedule 4.
3. Enbridge Gas has identified the need to replace the existing London Lines (“Existing Lines”) through County of Lambton, the Township of Dawn-Euphemia, Middlesex County, the Municipality of Southwest Middlesex, the Municipality of Strathroy-Caradoc and the Municipality of Middlesex Centre.
4. The Existing Lines comprise the London South Line and London Dominion Line which are two pipelines that are parallel to each other, approximately 60 km and 75 km in

length, respectively. These pipelines includes pipe segments that are NPS 8, 10 and 12 with a maximum operating pressure (“MOP”) of 1900 kPa (275 psig). The existing London Lines are Enbridge Gas high pressure distribution lines that extend from the Dawn Compressor Station (“Dawn”) at Dawn South London Lines Station, located near Sarnia, to Komoka Station, located near Komoka. The Applicant has determined the Proposed Pipeline is necessary to replace the Existing Lines due to integrity concerns. Details about the purpose, need and timing for the Project can be found at Exhibit B, Tab 1 of the pre-filed evidence. Details on Project Costs are shown in Exhibit F of the pre-filed evidence.

5. Exhibit A, Tab 2, Schedule 2 provides a map showing the general location of the Proposed Pipeline and associated facilities and the municipalities, and highways through, under, over, upon or across which the pipeline will pass.
6. The route and location for the proposed facilities associated with the Project were selected by an independent environmental consultant through the process outlined in the Ontario Energy Board’s *“Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Pipelines and Facilities in Ontario”* (7th Edition, 2016) (the “Guidelines”). Input from the public was sought during the route selection process and was incorporated into the final route decision. Details on the route selection and the Environmental and Socio-Economic Impact Assessment (ER) of the proposed facilities are included at Exhibit C, Tab 2, Schedule 1 of the pre-filed evidence.
7. Information on indigenous consultations and Duty to Consult activities can be found at Exhibit G of the pre-filed evidence.
8. The parties affected by this Application are the owners of lands, government agencies and municipalities over which the pipeline will be constructed, and Enbridge Gas’s distribution customers with respect to quality of service and security of supply. The persons affected by this Application are the customers resident or located in the

Municipalities, the First Nation Reserves and Métis organizations served by Enbridge Gas, together with those to whom Enbridge Gas sells gas, or on whose behalf Enbridge Gas distributes, transmits or stores gas. It is impractical to set out in this Application the names and addresses of such persons because they are too numerous.

9. With leave of the Board, Enbridge Gas expects to commence construction of the Project in the second quarter of 2021. In order to meet Project timelines, Enbridge Gas respectfully requests the approval of this Application as soon as possible or not later than March 2021. Exhibit D, Tab 1, Schedule 3 provides the proposed construction schedule.
10. Enbridge Gas requests this Application proceed by way of written hearing in English.
11. Enbridge Gas requests that all documents in relation to the Application and its supporting evidence, including the responsive comments of any interested party, be served on Enbridge Gas and its counsel as follows:

(a) The Applicant:	Regulatory Affairs Enbridge Gas Inc.
Address for personal service:	500 Consumers Road Toronto, ON M2J 1P8
Mailing Address:	P. O. Box 650 Scarborough, ON M1K 5E3
Telephone:	(416) 495-5499
Fax:	(416) 495-6072
E-Mail:	EGIRegulatoryProceedings@enbridge.com

(b) The Applicant's counsel:	Charles Keizer Torys
Address for personal service and mailing address:	Suite 3000, TD South Tower Box 270 Toronto, Ontario

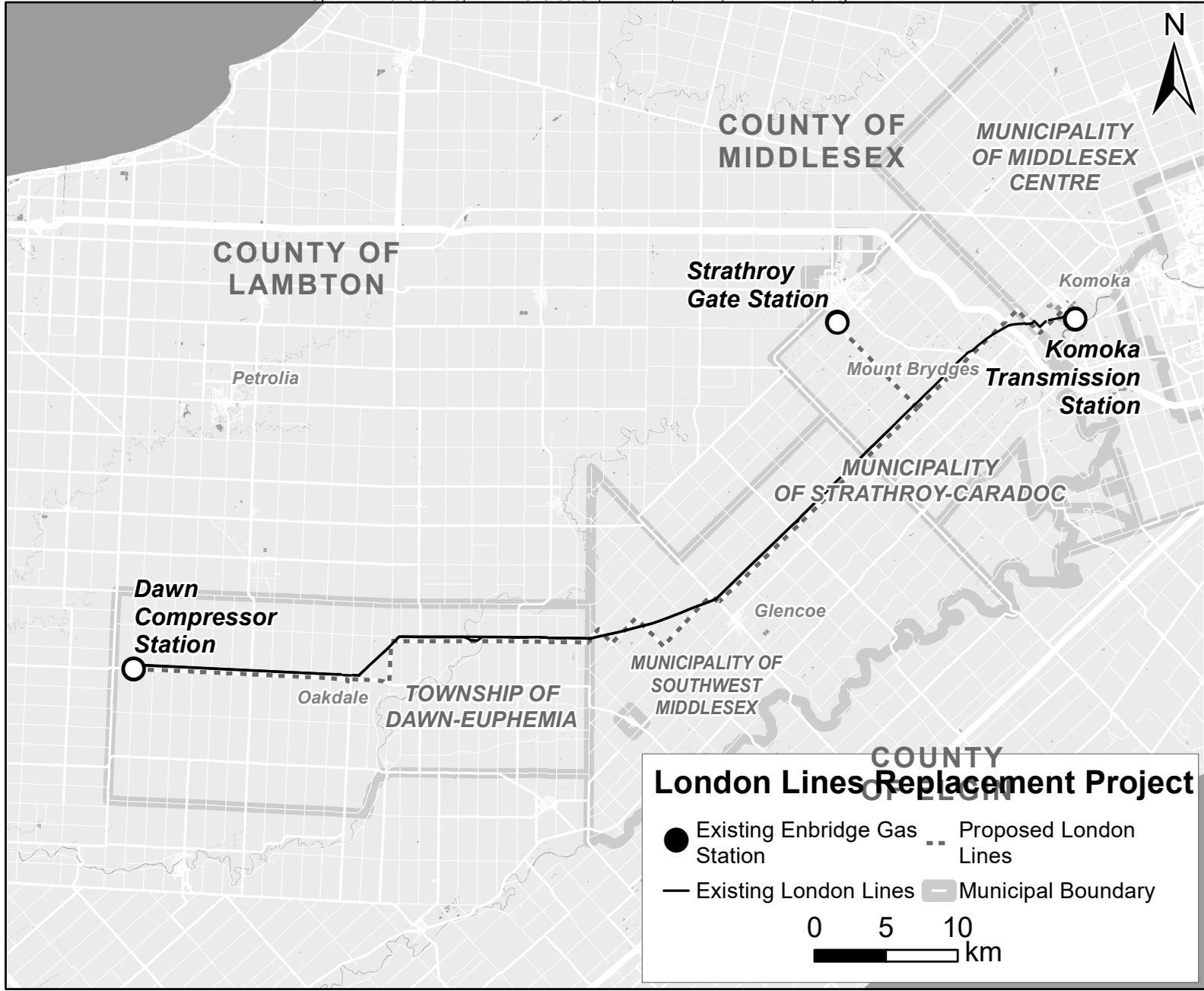
Telephone: M5K 1N2
(416) 865-7512
Fax: (416) 865-7380
E-Mail: ckeizer@torys.com

Dated: September 02, 2020, at Toronto, Ontario

ENBRIDGE GAS INC.

[original digitally signed by]

Rakesh Torul
Technical Manager, Regulatory Applications



London Lines Replacement Project

- Existing Enbridge Gas Station
- Existing London Lines
- - - Proposed London Lines
- ▬ Municipal Boundary

0 5 10 km

PURPOSE, NEED, PROPOSED FACILITIES & TIMING

Introduction

1. Enbridge Gas Inc. ("Enbridge Gas" or the "Company") has identified the need to replace the existing London Lines ("Existing Lines") through County of Lambton, the Township of Dawn-Euphemia, Middlesex County, the Municipality of Southwest Middlesex, the Municipality of Strathroy-Caradoc and the Municipality of Middlesex Centre ("London Line Replacement Project", "Proposed Pipeline" or the "Project"). Pursuant to Section 90. (1) and Section 97 of the *Ontario Energy Board Act* ("the Act"), Enbridge Gas requests approval from the Ontario Energy Board (the "Board" or "OEB") for leave to construct approximately 51.5 kilometres of NPS 4 and 39 kilometres of NPS 6 hydrocarbon (natural gas) pipeline to replace the Existing Lines. Exhibit A, Tab 2, Schedule 2 shows the location of the Project.
2. The Existing Lines comprise the London South Line and London Dominion Line which are two pipelines that are parallel to each other, approximately 60 km and 75 km in length, respectively. These pipelines include pipe segments that are NPS 8, 10 and 12 with a maximum operating pressure ("MOP") of 1900 kPa (275 psig). The existing London Lines are Enbridge Gas high pressure distribution lines that extend from the Dawn Compressor Station ("Dawn") at Dawn South London Lines Station, located near Sarnia to Komoka Station, located near Komoka. Figure 1 shows the year of installation and coating used in the Existing Lines. Small replacements have been made along the pipelines, meaning that there are small areas where the coating/age of the pipe may differ.

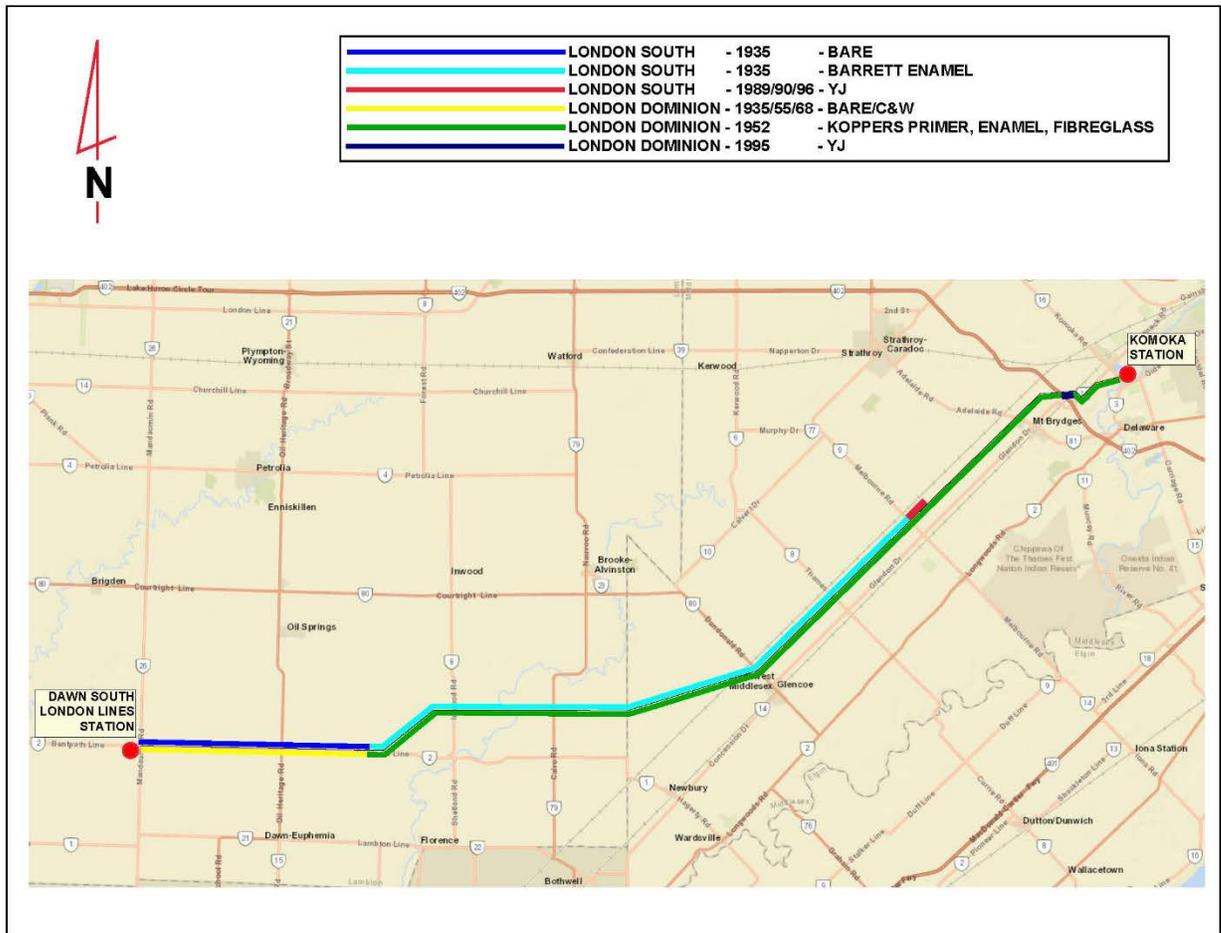


Figure 1: Graphical depiction of the year of installation and coating of the pipelines.

Purpose and Need

Condition of the Existing Line

- The London Lines represent some of the oldest pipe in the legacy Union Gas network, accounting for nearly 135 km of the 384 km (35%) of the oldest pipe in the system (pre-1950 installation) and consists of 62 km of bare steel pipe (18% of the total bare steel pipe population).

4. Enbridge Gas's Distribution Integrity Management Program ("DIMP") continually evaluates assets to identify risks and determine the condition of pipelines in the distribution network. Analysis conducted by Enbridge Gas has shown that the existing London Lines are in poor condition and have several active degradation factors, including loss of containment, shallow depth of cover, and corrosion induced wall loss. Based on the results of the assessments, discussed further in Exhibit B, Tab 2, Schedule 1, Enbridge Gas has identified that the Existing Lines are an operational risk and should be replaced to manage the safety and reliability of the natural gas distribution in this area.

Physical Characteristics

5. The London South Line was originally installed in 1935. As shown in Figure 1, sections have been abandoned and replaced, and the line is currently comprised of approximately 15 km of NPS 8 bare steel pipe (grade 165, 7.0 mm wall thickness), approximately 43 km of NPS 10 coated steel pipe (grade 165, 7.0 mm wall thickness), and approximately 1 km of NPS 12 coated steel pipe (grade 290, sections of 5.6 mm and 9.5 mm wall thickness). The construction practice in place in 1935 used unrestrained compression couplings to connect pipe segments. Based on typical pipe segment lengths (12 m or 40 ft), there could be in excess of 6,000 unrestrained compression couplings.
6. Compression couplings (mechanical fittings not welded onto the main) that are not properly restrained could cause a loss of containment, such as a pipeline leak or failure, due to exposed points of thrust. Enbridge Gas has mitigation

practices in place to address existing known compression couplings when they are discovered. Some vintage gas mains, such as the London Lines, do not have sufficient records identifying the existence and location of these fittings.

7. Compression couplings are known to provide minimal pull-out resistance, and depending on design, could cathodically isolate pipe. They are also a source of leaks especially if there is ground movement or large temperature fluctuations such as freeze/thaw cycles.
8. Compression couplings are held in place by the weight of the soil. When the soil is disturbed, for example as a result of reduced depth of cover or via freeze/thaw of the surrounding soil, due to the fitting's minimal pull-out resistance, the pipe can shift or pull out of the fitting, resulting in gas escaping through the open pipe end.
9. Compression couplings on steel mains that are unknowingly isolated from the corrosion protection system could result in inadequate cathodic protection, leading to accelerated corrosion and potential loss of containment. The Existing Lines have experienced significant corrosion on the barrels of the compression couplings, further compromising their integrity and creating leaks.
10. The London Dominion Line was originally installed in 1936 but the majority of the line was subsequently replaced in 1952 using reclaimed and refurbished pipe from the 1920s and 1930s vintages (unknown grade, 5.6 mm wall thickness). Records indicate that the pipe used for reclamation had multiple instances of laminations along with surface corrosion resulting in flaking of the pipe. Pipeline flaking can lead to coating disbondment during application thereby affecting the integrity of the coating. The replaced pipeline (1952) used a welded construction.

The Dominion Line is currently comprised of approximately 41 km of NPS 8 steel pipe, approximately 31 km of NPS 10 coated steel pipe and approximately 1.5 km of NPS 12 coated steel pipe. Similar to the London South Line, cathodic protection was first introduced in 1965. There is a 10 km section of the London Dominion Line that was originally installed in 1936 (unknown grade, 7.0 mm wall thickness) that is still in service and is bare steel pipe.

11. During the original 1935 London South and 1936/52 London Dominion Line installation, there were no records to confirm that a pressure test was completed. A project was initiated in 1956 to pressure test a large portion of the existing London Lines. Records of such test are incomplete. It is unknown what pressure test medium or duration was used.

Condition Assessment

12. Canadian Standards Association (CSA) standard Z662 provides guidance on when a pipeline operator should address pipeline integrity and condition concerns. It is the responsibility of the pipeline operator, in this case Enbridge Gas, to monitor the condition of its pipeline assets and compare the condition of those assets to the guidance set out in CSA Z662. Should the condition of a pipeline be such that it creates a risk pursuant to CSA Z662 guidance, the pipeline operator must address the condition of the pipeline. Enbridge Gas's Integrity Management Program incorporates the guidance set out in CSA Z662. Pipeline condition will typically be addressed via repairs or replacement. In the case of the London Lines, Enbridge Gas has determined, for the reasons set out later in this evidence, that the Existing Lines segment should be replaced.

Loss of Containment

13. As indicated above, the Existing Lines have several active degradation factors.

The most predominant degradation issue is external corrosion resulting in loss of containment. Enbridge Gas classifies loss of containment using Class A, B and C levels. Class A Leaks are required to be repaired immediately. Class B Leaks are required to be repaired within a short amount of time. Class C Leaks are to be monitored at a regular frequency to identify any changes in leak rate. Class C Leaks are typically dependent on external factors (i.e., temperature, ground settlement, and others). Depending on conditions at the time of leak survey, the location of the Class C Leak may vary.

14. Since 2011, records indicate that 29 Class A or Class B Leaks have been repaired, and a leak survey completed in 2020 found an additional 5 active Class C Leaks. The extensive amount of compression couplings also leads to the development of Class C Leaks from ground settlement and frost heave. Although there are currently 5 active Class C Leaks, Enbridge Gas has been monitoring as many as 29 active Class C Leaks since 2013. The London Lines between 2013 and 2019 had a leak rate of 0.43 leaks/km/year, which is over 10 times greater than the available average leak rate for the steel main population.

15. Due to the vintage, the quality of steel pipe and the general deteriorating conditions, the London Lines have not consistently operated near MOP of 1900 kPa for some time. The London Lines currently operate at a MOP of 1415 kPa to reduce the number of leaks.

16. Left unaddressed the deteriorating condition of the London Lines will result in additional leaks. The wall loss due to historical corrosion and large number of unrestrained compression couplings, including those with corrosion issues, present an increasing likelihood of loss of containment.

17. As Figures 2, 3, and 4 and the Assessment in Exhibit B, Tab 2, Schedule 2 show, the condition across the entirety of the London Lines identifies the need to replace the Existing Lines and that localized repairs would not be an efficient use of resources due to the challenges with making repairs to the Existing Lines as outlined in the *Consequences of Failure* section below.

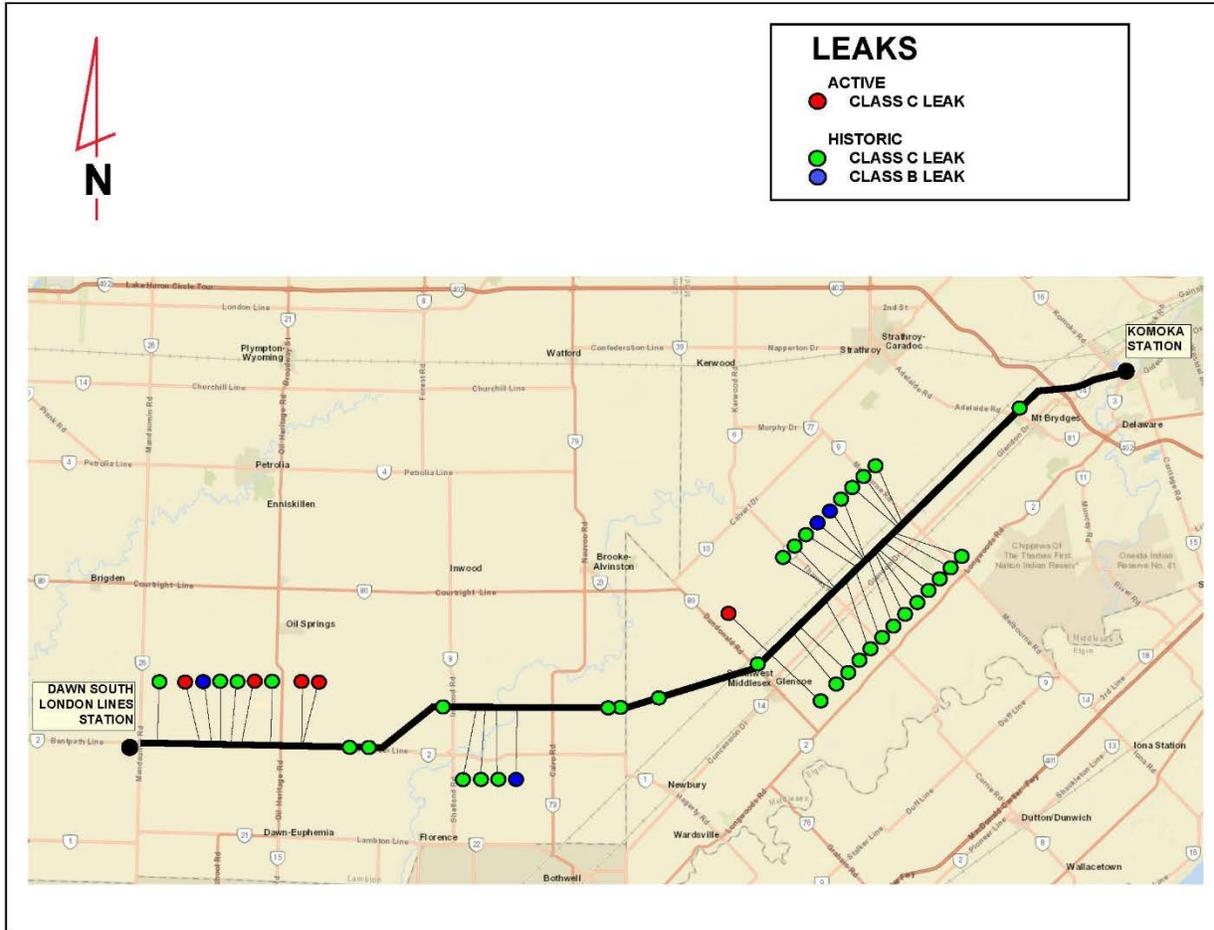


Figure 2: Active and Historical Leaks on the London Lines

Depth of Cover

18. Depth of cover is another significant risk driver. A depth of cover survey completed in June 2020 recorded measurements taken at regular intervals across the entire length of the London Lines. A summary of this data is shown in Figure 3. The figure identifies areas of the London Lines where incident of reduced depth of cover most like to occur. The study found 1067 measurement

locations of the total 6671 measurements taken (16% of the measurements) had a depth of cover measurement of 0.60 m or less¹.

19. Further analysis of the data shows that the areas where the pipe is within Agricultural land use (approximately 63% of the measurements), 85% of the measurements did not meet the minimum internal standard² for depth of cover to protect against heavy cultivation damage.
20. It should be noted that over 36% of the London Lines has a depth of cover less than 0.75 m³. Based on correlation models Enbridge Gas has performed with historical third party damages, it is predicted that the likelihood for damages has increased based on the reduced depth of cover for this system. For example, the modeling predicts a 22% increase in likelihood of a third party damage when comparing a depth of cover of 0.75 m versus 0.60 m.
21. Meeting the minimum depth of cover requirement provides protection for the pipeline from typical activities while providing sufficiently convenient access for Enbridge Gas maintenance and construction activities. Third party damages trigger repair work which, as discussed in *Consequences of Failure*, is becoming increasingly resource-intensive, costly and time-consuming.

¹ As per the CSA Z662-15 Sect 12.4.7, Table 12.2, the minimum requirement standard for pipe is 0.60 m

² The minimum internal standard for depth of cover for pipeline running in agricultural land is 1.2 m

³ As per Enbridge Gas Construction and Maintenance Manual, the minimum depth of cover for a proposed pipeline in the untraveled portion of the road right-of-way is 0.75 m

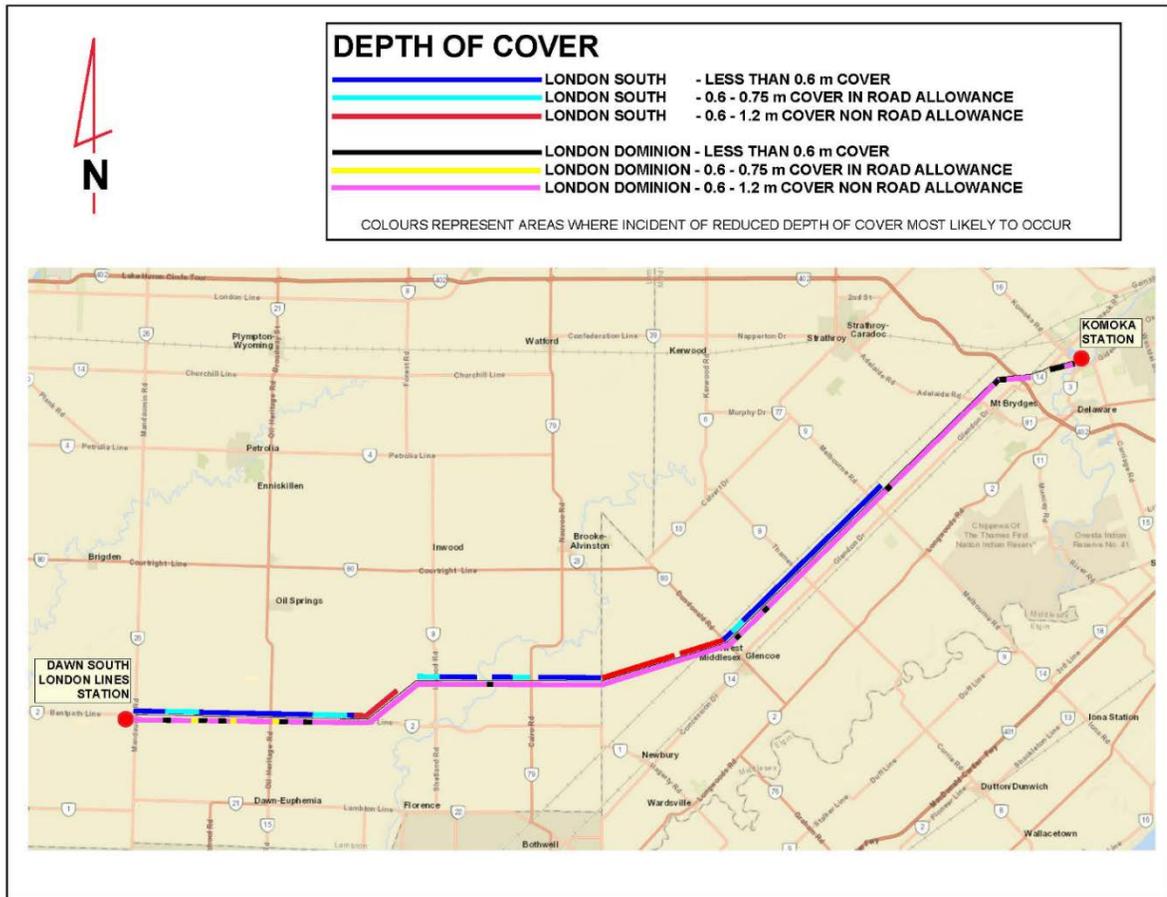


Figure 3: Visualization of the depth of cover of the mains, as collected during the 2020 Depth of Cover Survey.

22. The depth of cover of a pipeline also impacts the safe embedment distance required to safely work on a pipeline that is constructed using unrestrained compression couplings. The safe embedment distance is the distance at which the force at the exposed point of thrust is balanced by the sum of the pullout resistance plus the soil resistance.

23. A reduced depth of cover reduces the soil resistance thereby meaning a smaller thrust force is necessary to cause compression coupling pullout when the pipeline is exposed. A compression coupling pullout could cause loss of containment and potential severe health and safety consequences.
24. A consequence of reduced depth of cover is that a larger safe embedment distance from the unrestrained compression coupling is required before being able to safely expose the pipeline which limits repair location options.
25. Pipelines constructed using unrestrained compression couplings and with a reduced depth of cover, such as the London Lines, limits the Company's ability to complete a repair safely, efficiently and cost-effectively.
26. The reduced depth of cover concern of the London Lines was raised through Environmental Assessment Consultation which is provided in Exhibit C, Tab 2, Schedule 1.
27. Additionally, 53 aerial crossings, shown in Figure 4, were noted over ditches, river crossings, in agricultural fields and other locations. These aerial crossings are further complicated with added risk associated with bank erosion, debris strikes and potential vandalism concerns. Photos taken during the 2020 Depth of Cover Survey are included as Attachment 1. The photos show examples of the crossings' close proximity to the road, partial submersion at the drains, rusty exposed fittings as well as deteriorating coating.

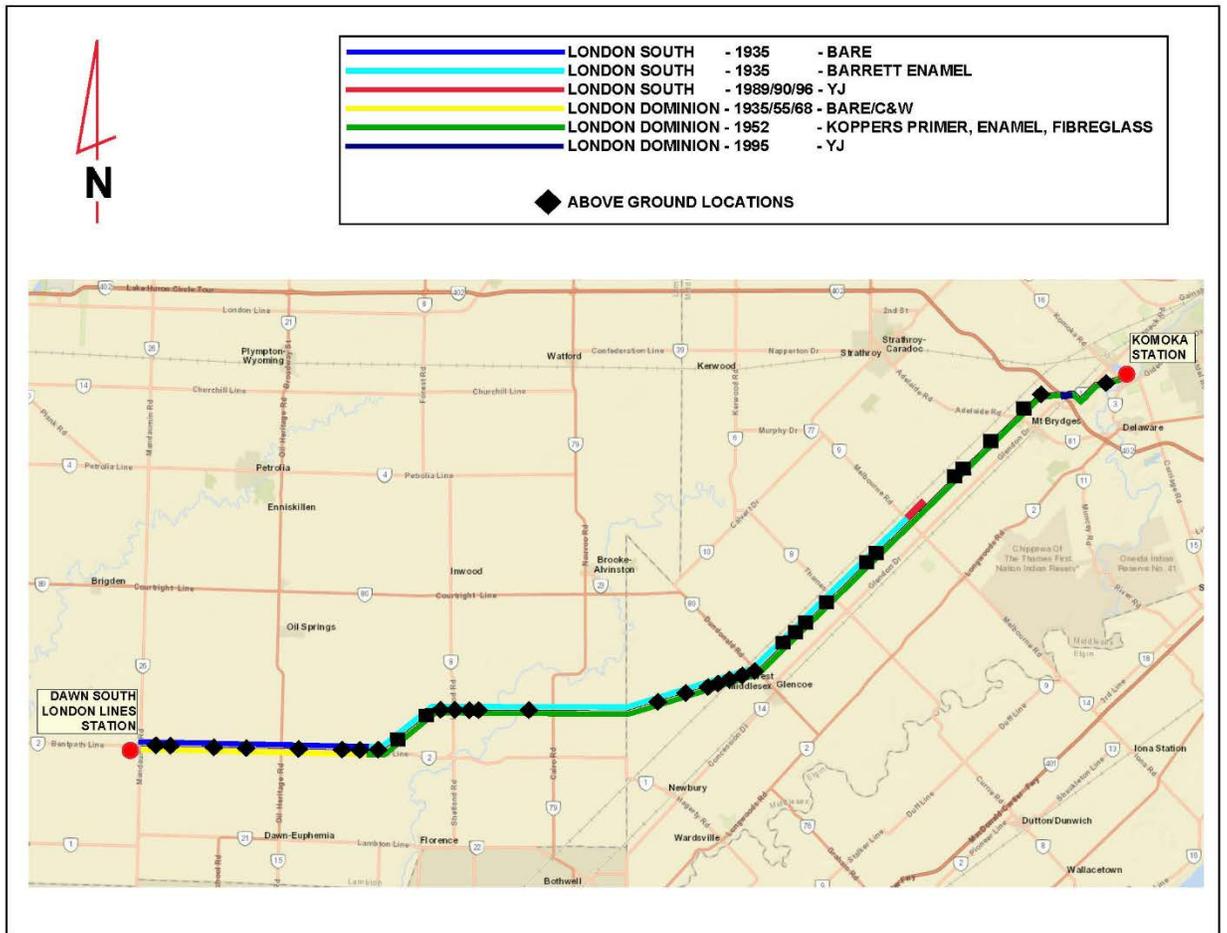


Figure 4: Locations of Above Ground Pipe, collected as part of the 2020 Depth of Cover survey

Corrosion

28. Wall loss due to corrosion has caused issues when welding work is needed on the London Lines, including for connecting new laterals to communities, for new customer service connections and for any required repair work. Cathodic Protection was not introduced until 1965. Bare pipe typically requires higher current for its Cathodic Protection due to the large amount of exposed steel.

Feedback gathered by the Company shows consistently high amounts of corrosion across many lengths of pipe which indicate that there is difficulty to find a section of pipe which is acceptable to weld on when work is required to be completed on the London Lines. This could be caused by the initial lack of Cathodic Protection prior to 1965 or intermittent drops in Cathodic Protection levels due to power interruptions or soil conditions. From Dawn South London Lines Station to Komoka Station, the London Lines are currently covered by Cathodic Protection.

29. Leak repairs are becoming more difficult due to the degradation of the pipe. For example, a Class A Leak repair in 2019 found that a first stage cut broke away from the main due to corrosion and weight of the soil as excavation was proceeding to expose the leak. Further complications arose in trying to find an adequate location to install a stopper fitting to perform the repair, as there were numerous corrosion pits preventing welding of the stopper fitting. In 2020, the Company was attempting to abandon a service when it discovered visible external corrosion pitting. Non-destructive testing analysis by a third party showed 40% wall loss.

Risk Based Assessment

30. Enbridge Gas uses a clear framework for asset investment decision-making which balances risk, cost and performance throughout the asset life cycle. Decisions are made using the support of assessments of asset condition and risk. Over the life cycle of an asset, a spectrum of Risk Treatment options are applied based on the identified maintenance strategy for the asset. As the asset progresses through its life cycle, the probability and consequence of failure

inform maintain versus renewal/retire decisions. The recent Risk Assessment performed on the London Lines showed that the imbalance between risk, cost and performance supports a move away from maintaining these assets and more towards renewal of the assets, as they are nearing end-of-life.

31. The internal risk assessment performed on the London Lines shows the system has a medium risk rating on the Enbridge Standardized Operational 7X7 risk matrix when considering the lenses of the Health and Safety, Customer Loss, Financial and Reputational risks. The risk assessment also identified that some segments of the London Lines have a high risk rating for Customer Loss. This is primarily for sections where the twin pipelines cannot be isolated independently to effectively manage customer outages on the system. This risk assessment was reviewed and agreed to by the appropriate Enbridge Gas technical and management personnel for the London Lines project. Exhibit B, Tab 2, Schedule 1 shows the Integrity Assessment that was completed to explain the pipeline integrity concerns in further detail.

Consequence of a Failure

32. The London Lines operate at less than 30% of the specific minimum yield stress, so a leak is the most likely failure mode. Due to the condition of the pipeline, the risk of failure of the pipe could have various effects depending on the location of the failure.

33. Customer Loss is a significant consequence, particularly for sections where the twin pipelines cannot be isolated independently to effectively manage customer outages on the system. Should the lines experience a loss of containment, the

repair would be challenging due to the lack of records that exist for the line. It is not clear what will be uncovered as various pipe materials and coatings that comprise the existing London Lines. These unknowns (quality of pipe material, coating, construction methods) create additional complexity, discussed below.

34. Additionally, due to the quality of the reclaimed pipeline, it is challenging to find a section of pipeline that is weldable as the flaking pipe material is not suitable for welding. It is possible for multiple or larger excavations would be required in order to uncover a segment of pipe that is weldable.
35. The pipeline segments constructed via compression couplings pose a challenge due to the large safe embedment distances required to expose these sections of main. Due to the uncertainty in the quality of the pipe that is exposed, the scale of the repair grows and becomes more time-intensive and costly.
36. The number of integrity issues and possible failure modes causes public and worker safety concerns. The exposed sections of main and reoccurring leaks also lead to community concerns. Reoccurring leaks could lead to dead vegetation and exposed sections of main could disrupt some farming activities.
37. Through comprehensive asset planning, Enbridge Gas has identified and prioritized expenditures over a long-term horizon, ensuring funds are appropriately allocated to maintain the safe and reliable delivery of natural gas to its customers. The London Lines is on the list of prioritized projects, as identified in Enbridge Gas's Asset Management Plan. Replacing these pipelines is essential in managing the reliability and safety of the system.

38. Upon placing the Project in-service, Enbridge Gas will de-commission the existing pipelines and restore affected lands to the appropriate state. The abandonment of the pipelines currently in municipal road allowance will follow requirements in the respective municipal franchise agreement. For the pipelines in easement, easement agreements will be followed and landowner input will be sought.

Proposed Facilities

39. The Project is a replacement of the entirety of the existing London Lines pipelines. Based on the concerns detailed above, the London Lines have been deemed an operational risk and replacing the Existing Lines is the most effective way of managing its ongoing safety and reliability.

40. A System Design Criteria Report can be found at Exhibit B, Tab 2, Schedule 2. This report describes the current state of the pipeline system and reviews the alternatives considered for the Project. Enbridge Gas also reviewed the alternative of implementing supplemental Demand Side Management (“DSM”) and Integrated Resource Planning (“IRP”) for customers along the London Lines in order to defer, avoid or reduce the scale of this replacement project. Further details on the alternatives considered and the option of implementing supplemental DSM and IRP can be found at Exhibit B, Tab 2, Schedule 5 and Exhibit B, Tab 2, Schedule 4 respectively.

41. As shown in the System Design Criteria Report, the pipe sizes, the lengths of pipe at these sizes, and maximum operating pressure (“MOP”) of the Project have been designed to match the current demand of the London Lines.

42. The Project will, for the majority of the route, follow the routing of the existing pipelines to ensure customers and communities along the route can easily be connected to the new main. For the locations where the pipeline is being relocated from private easement to municipal road allowance, this relocation will allow for easier access to the pipeline for future service connections, and operations and maintenance work. Locating the pipeline in municipal road allowance also increases the accessibility of gas for any customers along the new route. Any customers connected to the existing pipeline in an easement will have their service relocated to the new pipeline as part of the project.
43. The Existing Lines are located in both municipal road allowance and private easement. This existing easement and new easement is required for the Project. Negotiations with landowners for new easements in which the pipeline will be located will be initiated, as described further in Exhibit E in this application. On placing the Project into service and decommissioning the existing facilities (including removal and restoration efforts), the majority of the existing easement, except along Bentpath Line will no longer be required.
44. The Project involves construction of 39 km of new NPS 6 pipeline with a wall thickness of 4.8 mm and grade 290 MPa (min) and 51.5 km of new NPS 4 pipeline with a wall thickness of 4.8 mm and grade 290 MPa (min). Once the proposed pipeline is successfully hydrotested and is operational, the Existing Lines will be abandoned. The abandonment of the pipelines currently in municipal road allowance will follow agreements in the respective municipal franchise agreement. For the pipelines in easement, easement agreements will be followed and landowner input will be sought.

45. There are 148 services and 25 stations that will be upgraded and nine new stations installed to facilitate the new proposed pipeline pressure. In areas where it is not practical to remove the existing pipeline it will be abandoned in place. Areas where abandonment in place is likely to occur will be road crossings and water crossings. The 53 aerial crossings identified above in Figure 4 will be abandoned and removed. The TSSA abandonment guidelines and the applicable adopted edition of CSA Z662 will be followed for all pipelines abandoned in place. The service connections and service lines will be a mixture of NPS 1-1/4 to 1 steel depending on the load of the customer and length of service. Each service will run from the mainline connection to the building where it is delivering natural gas. For services connected to the 3447 kPa mainline, the service will be steel until the first stage pressure regulating cut. The remainder of the service could be steel or plastic.
46. There are seven services that are connected to the pipeline that is running through easement. The Proposed Pipeline will be installed in a new location, in road allowance. To provide delivery of gas to these customers, short sections of plastic pipe will be used to attached the customer to the Proposed Pipeline, a nearby intermediate pressure (“IP”) system or a new IP network.
47. The Proposed Pipeline will be 15.1 km of NPS 6 along Bentpath Line (County of Lambton road in the Township of Dawn-Euphemia) from the tie-in at Dawn to the inlet of Oakdale Header Station. From the outlet of Oakdale Header station, the Proposed Pipeline will be NPS 4 and run for 51.5 km along Bentpath Line, Driessens Line, Forest Road, Mosside Line, Watterworth Road (County of Lambton, Township of Dawn-Euphemia), Argyll Drive, Big Bend Road, Oilfield Road, Pratt Siding Road, CPR Drive, Dundonald Road, Falconbridge Drive

(Middlesex County, Municipality of Southwest Middlesex) to a new valve site at the intersection of Sutherland Drive and Falconbridge Drive (Middlesex County, Municipality of Strathroy-Caradoc). The outlet of the new valve site at the intersection of Sutherland Road and Falconbridge Drive will begin 15.5 km of NPS 6 pipe that will run along Falconbridge Drive, Avro Drive, Amiens Road, (Middlesex County, Municipality of Strathroy-Caradoc), Glendon Drive, Komoka Road (Middlesex County, Municipality of Middlesex Centre). The NPS 6 pipeline will tie into Komoka Station, located on Komoka Road.

48. A new Pipeline is also proposed to start at Strathroy Gate Station (Calvert Drive, Municipality of Strathroy-Caradoc). It will be NPS 6 and run for 8.4 km along Sutherland Road. At the intersection of Sutherland Road and Falconbridge Drive, it will tie into the NPS 6 main. This pipeline will provide a back-feed to the London Line corridor by adding a secondary feed from the Dawn to Parkway System via Strathroy Gate Station. This back-feed also provides the opportunity to install a smaller pipe size for the replacement, and provides operational flexibility in the future.

49. The pipeline will be placed in the existing easements starting from the west end of the Project for a distance of 15.1 km. The remainder of the pipeline will be placed in the municipal road allowance. At the intersection of Glendon and Komoka, 200 m of NPS 6 pipeline will be installed in private easement to avoid installing in the intersection; this will accommodate the future widening of Glendon and the installation of a roundabout at the intersection. This work was raised by staff at Middlesex County and with this routing selection, Enbridge Gas is attempting to minimize or eliminate future relocations due to the County's planned work.

50. The total estimated cost of the Project is approximately \$164.1 million. This total includes indirect overheads. Without indirect overheads included, the total estimated cost is \$133.9 million. The proposed Leave to Construct application seeks approval for the mainline costs of \$95.2 million as shown in the project economics filed at Exhibit F of this application.

51. Enbridge Gas has completed an Environmental Report for the Project, which is filed as Exhibit C, Tab 2, Schedule 1. The Environmental Report did not identify any long term significant environmental impacts as a result of the Project.

52. Enbridge Gas contacted the Ontario Ministry of Energy, Northern Development and Mines ("MENDM") to determine if there are any Duty to Consult requirements for the Project. The details of Enbridge Gas' correspondence with the MENDM and the consultation process can be found in Exhibit G, Tab 1, Schedule 1.

Timing

53. If the Project is approved, Enbridge Gas would install the new pipeline between May 2021 and December 2021. Abandonment of the existing pipelines and site restoration would occur during 2022.



Figure 1: Aerial Crossing with Mechanical Split Sleeve Repair fitting, covering leaking Dresser Coupling, near municipal culvert, Bentpath Line, west of Marthaville Rd). Left is a close-up, right show the crossing in context.



Figure 2: Aerial Crossing in heavy vegetation area (Bentpath Line between Tramway Rd and Esterville Rd). Left is a close-up, right show the crossing in context.



Figure 3: Aerial Crossing, with “restrained” Dresser Coupling (Bentpath Line, between Tramway Rd and Esterville Rd) indicating severe deflection and mis-alignment of the pipe. Left is a close-up, right show the crossing in context.



Figure 4: Aerial crossing near box culvert structure (Bentpath Line, between Huff's Corners Rd and Hale School Rd). Left is a close-up, right show the crossing in context.



Figure 5: Aerial Crossing near municipal drain, potential for pipe to be partially submerged (Mossie Line, West of Burr Rd). Left is a close-up, right show the crossing in context.



Figure 6: Aerial Crossing and bridge used for inspection, prone to partial submersion (Pratt Siding and Knapdale, through private easement). Left is a close-up, right show the crossing in context.



Figure 7: Aerial Crossing with multiple leak repair clamps over corrosion leak on pipe (Old Airport Rd, north of CPR Dr). Left is a close-up, right show the crossing in context.



Figure 8: Aerial Crossing with pipe coating peeling off (Falconbridge, between Tait's Rd and McArthur Rd). Left is a close-up, right show the crossing in context.



Figure 9: Aerial Crossing with peeling pipe coating (Falconbridge Dr, east of Christina Rd). Left is a close-up, right show the crossing in context.

INTEGRITY AND RISK ASSESSMENT

INTEGRITY ASSESSMENT

1. Enbridge Gas's Distribution Integrity Management Program ("DIMP") continually evaluates assets to identify hazards and determine the condition and risk of pipelines in the distribution network. An integrity assessment (Attachment 1) was recently conducted on the London Lines as part of the proposed Replacement Project. The integrity assessment included review of the pipeline demographics, cathodic protection, depth of cover, historical failures, and a comparative analysis with respect to the the Windsor Line Replacement Project which was previously approved by the OEB and is currently under construction.
2. Population: The London Lines represent 35% of pre-1950 installation pipes in the legacy Union Gas network and 18% of the total bare steel pipe population within the legacy Union Gas network. It should be noted that the Windsor Line, a pipeline that is similar in vintage, condition and risk raking, comprised of only 0.02% of bare pipe within the same system. Overall, the London Lines is primarily comprised of vintage steel pipes which were fabricated prior to 1970s. Vintage steel pipes (pre-1970s) have known quality issues with respect to manufacturing and material specifications which include laminations¹, inadequate toughness values², and selective seam weld corrosion³.

¹ Lamination is a defect found in the vintage steel pipes which forms a laminar disbondment within the pipe wall.

² Toughness is a mechanical property of steel that refers to ability of a metal to deform plastically and to absorb energy before fracture.

³ Selective seam corrosion is a localized corrosion that occurs axially and along the weld line of electric resistance welded (ERW) pipes.

3. Compression Couplings: Compression couplings that are not properly restrained through the installation of a pressure containment sleeve or strapping could cause a loss of containment and potential for severe health and safety consequence due to exposed points of thrust. Moreover, compression couplings are known to provide minimal to no mechanical resistance to pullout and can leak due to ground and pipe movement.
4. Compression couplings on steel mains that unknowingly isolate the corrosion protection system could result in inadequate cathodic protection, leading to accelerated corrosion and potential loss of containment.
5. The population records indicate that there could potentially be in excess of 6,000 unrestrained compression couplings on the London Lines based upon the use of assumed 40 foot lengths of pipe. The London Lines represents 30% of the steel mains constructed with compression couplings ('coupled steel mains') within the legacy Union Gas network. This is in comparison to Windsor Lines which represents 12% of all coupled steel mains.
6. It is noteworthy that compression coupling (or compression style repair clamps) leaks account for 38% of the leak repairs on the London Lines between 2011 and 2019. Feedback from experienced field personnel at Enbridge Gas indicates that the barrels of the compression couplings corrode at a higher rate than the surrounding pipe they connect. This suggests that the compression coupling could be unknowingly isolated from the corrosion protection system and as such the cathodic protection of the piping does not protect the compression couplings fitting.
7. Failures: External corrosion is a dynamic hazard to the integrity of underground pipeline systems. Corrosion penetration reduces the residual strength of affected

pipes due to wall loss, and therefore, increases the likelihood of the failure over time. A repair summary report created in June 2020 indicated a total of 29 leak repairs between 2011 and 2019 for London Lines. The repair summary report indicates 38% of repairs since 2011 were due to compression couplings or repair clamps used for previous repairs, whereas 17% of repairs could be attributed to corrosion leaks. This is in part attributable to the fact that feedback from experienced field personnel at Enbridge Gas indicates corrosion is the most common cause of leak failures in the London Lines. Furthermore, review of historical failures indicated that between 2013 and 2019, the London Lines had a leak rate of 0.43 leaks/km/year, which is over 10 times greater than the available average leak rate for the steel main population within Enbridge Gas's distribution system.

8. Depth of Cover and Exposed Piping: Natural Gas Pipelines are installed to meet or exceed applicable minimum regulatory requirements at the time of construction. In some instances, cover may be altered due to excavation activities, erosion, construction, flooding, ground subsidence or other environment factors or human intervention. Over time this can increase the risk of third party damages (constructors believing there is more cover than what is actually there) as well as jeopardize the pipeline in high traffic areas through weight transfer of large vehicles and heavy equipment moving over top of a pipeline. Depth of cover also plays a role with the safe embedment distance pertaining to compression couplings and the restraining points of thrust. Enbridge Gas minimum depth is 0.75 m and CSA Z662-15 minimum depth is 0.6 m. A recent depth of cover survey (June 2020) indicated the occurrence of 53 sites of exposed piping on the London Lines and that 15% of depth of cover readings had a measurement of less than 0.6 m with an average depth of 0.48 m. As noted, a depth of cover of 0.6 m is the current standard for

distribution piping on private property for distribution lines.⁴ Based on the third party hit frequency model developed by Enbridge Gas for distribution assets there is a 20% increase in third party hit frequency when the depth of cover is 0.48 m versus 0.6 m.

9. In conclusion, based upon the available data and information at this time, the London Lines represent some of the oldest and most vulnerable steel assets within the legacy Union Gas distribution network. Additionally, analysis conducted by Enbridge Gas's DIMP has shown that the London Lines are in poor condition and have several active degradation factors, including much higher rates of loss of containment, shallow depth of cover, and corrosion induced wall loss. As such, from a condition standpoint, the replacement of the London Lines is supported by the DIMP.

RISK ASSESSMENT

1. For the London Lines, a qualitative risk assessment was completed using the Enbridge Standardized Operational 7X7 risk matrix. The risk assessment followed the Enbridge Framework Standard – Risk Management and the GDS Procedure Hazard Identification and Risk Assessment for Common Register. For the purposes of the risk assessment, the pipeline was segmented into sections of comparable condition. The applicable risk information was documented for each section. This information included possible failure modes, causes, applicable controls and possible consequences. This information was used to assess the likelihood and consequence of each failure mode for each of

⁴ The criteria for depth of cover is in reference to CSA Z662-15 Section 12.4.7, Table 12.2

the selected pipeline segments. The assessment was completed in a structured and systemic style using a “what if” workshop style approach.

2. The risk assessment was completed via three primary reviews. In the initial risk workshop, information was gathered to build out the risk scenarios, document existing controls and initially assess the risk. This risk workshop was followed by information gathering to further assess the risk scenarios identified in the workshop. This information gathering included an updated leak survey, an updated depth of cover survey, interviews with additional operations personnel and a review of pipe condition information. The GDS risk specialist compiled the information to complete the draft of the risk scenarios and risk rankings. A second risk review was held and the draft of the risk scenarios and the supporting information were reviewed and assessed to finalize the risk assessment. The third and final risk review was held with the London Lines Project Operating Committee. The purpose of the review with the London Lines Project Operating Committee was to request sign-off and approval of the risk assessment process and summary. The Operating Committee provided sign-off on the risk assessment, marking the formal completion of the risk assessment process.
3. The London Lines were assessed primarily as a medium risk on the Enbridge Operational Risk Matrix. Several different failure modes were identified, the majority of which were assessed as a medium risk. Some sections, where the twin pipelines cannot be isolated independently to effectively manage customer outages, were assessed as a high risk for customer loss. The risk ranking results at the time of risk endorsement are shown in Table 1. This table is

current at the time of risk sign-off, however some risk rankings may change over time as new information is obtained and reviewed.

Table 1

	Very High	High	Medium	Low
Financial	0	0	17	1
Health and Safety	0	0	26	0
Customer Loss	0	4	10	6
Stakeholder Concerns	0	0	10	0

Table 1: Summary of risk ranked scenarios for the London Lines.

DIMP Integrity Assessment

London Lines

July 21, 2020

Project Manager: Daniel Zanini			
Asset Class: Pipe			
<u>Version Control:</u>			
Date (dd/mm/yyyy)	Revision	Name of Person Making Change	Description of Changes
21/07/2020	DRAFT	D. Zanini	Initiation

Distribution List
Shawn Khoshaien
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Report

Company: Enbridge Gas Distribution

Owned by: Distribution Integrity Management Department

Controlled Location: Distribution System Integrity Teamsite



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1 Overview

This Integrity Assessment was completed to provide an updated reliability assessment of the London Lines for the purpose of determining a recommended mitigation plan based upon the reliability of the studied assets.

1.1 DESCRIPTION

The London Lines are comprised of 2 separate parallel steel main lines called London South and London Dominion predominantly installed in the 1930s. Based upon records and Subject Matter Advisor (SMA) feedback the 57,000m of main replacement on the London Dominion line in 1957 was reclaimed 1920s-1930s steel pipe refurbished at the Dawn facility.

1.2 PREVIOUS PROJECTS

The London Lines have been studied on other occasions. The following table summarizes the available historical reports that were produced.

Table 1-1 Historical Reports

TITLE	AUTHOR	DATE COMPLETED
The London Lines	Katie Hooper	2002
London Lines Report	Bob Wellington	2004
Engineering Asset Plan – The London Lines	Jack Chen	2016

1.3 SCOPE

This Integrity Assessment assesses the distribution mains identified as part of the London Lines Replacement Project. The assessment uses the best available information and data at the time of writing of the report. In order to provide context, the Windsor Line Replacement Project which was approved by the OEB and is currently under construction, is used for comparison purposes.

2 Population

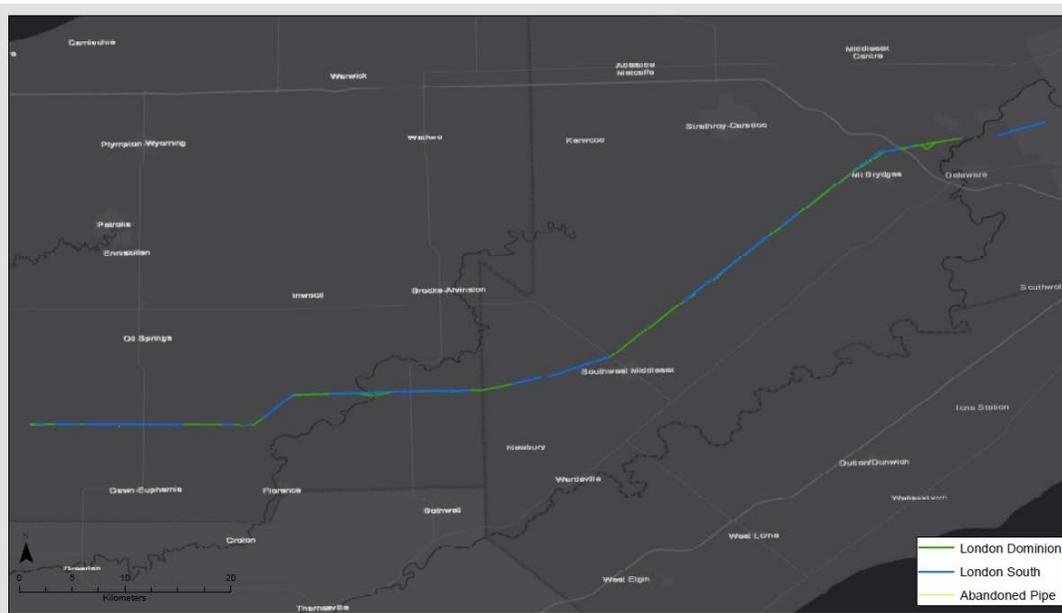
The London Lines comprise of over 134,000m of steel mains. Appendix A includes the file which identifies the main segments which are considered part of the London Lines.

Table 2-1 London Lines Population

Decade of Install	Length (m)		
	London Dominion	London South	Grand Total
1930s	11,096	53,493	64,589
1940s	37	24	60
1950s	57,895	2,379	60,274

1960s	3,650	209	3,858
1970s	247	120	367
1980s	314	229	543
1990s	1,686	3,044	4,731
2000s	56	-	56
2010s	134	-	134
	75,115	59,497	134,612

Figure 2-1 London Lines Plot (June 2020)



The approximately 64,000m of 1930s vintage steel pipe make up approximately 35% of 1930s vintage steel pipe within the electronic records for the Enbridge Gas Inc (EGI) distribution network.

According to electronic records approximately 62,000m of the pipe is bare, 50,000m of which are on the London South line. However according to SMA feedback there appears to be concerns regarding the mains with noted coatings as the mains installed in the 1950s could potentially be bare as well. The 62,000m makes up approximately 18% of the bare steel pipe within the electronic records for the EGI distribution network. In comparison the Windsor Line comprises of only 85m of bare pipe as per the electronic records which represents 0.02% of bare pipe within the system.

London Lines does not contain any bare and unprotected steel mains. This was confirmed through the Corrosion Prevention department and by cross referencing the London Lines population against the bare and unprotected steel main population.

Also of note there are a large number of unrestrained mechanical couplings/compression couplings used during the construction of the London Lines. Depending on the assumption that random length pipe (approximately 20ft) was utilized versus double random length (approximately 40ft) there could be anywhere between 6,000 to 12,000 unrestrained compression couplings on the London Lines. Within the electronic records the London Lines comprise of 73,300m of coupled steel mains which represent

30% of all coupled steel mains within the EGI distribution network. This is in comparison to Windsor Lines which represents 12% of all coupled steel mains. Compression couplings are known to provide minimal pull-out resistance, depending on design could cathodically isolate pipe, and is a source of leaks especially if there is ground movement or large temperature fluctuations such as freeze/thaw cycles. SMA feedback indicates that the London Lines have C-leaks which appear and disappear which can be attributed to compression couplings. Additionally SMA input indicates that the barrels of the compression couplings corrode at a higher rate than the surrounding pipe they connect. This could be caused by the compression coupling not being adequately bonded to the piping and the Cathodic Protection (CP) for the piping not protecting components of the compression coupling. The SMA feedback also indicated piping surfaces on either side of the compression couplings appear to be the same indicating that the compression coupling is not electrically isolating the pipe.

3 Cathodic Protection

A report issued in 2016 regarding the London Lines state that Cathodic Protection (CP) did not begin until 1965. The London Lines are currently protected by rectifiers. The first section of London Lines which was rectifier protected occurred in 1988. The majority of London Lines’ mains became rectifier protected in the 1990s with the final section of mains becoming rectifier protected in 2010. Bare pipe typically requires higher current for its CP due to the large amount of exposed steel. SMA feedback indicates consistently high amounts of corrosion across many meters of pipe. This has caused SMAs to indicate that there is difficulty to find a section of pipe which is acceptable to weld on when work is required to be completed on the London Lines. This could be caused by the initial lack of CP prior to 1965 or intermittent drops in CP levels due to depleted anodes prior to rectifier protection, power interruptions or soil conditions.

Over the last twenty years (2000-2019) 7,925 test point readings have been made across the London South and London Dominion Lines, with 405 test point readings performed in 2019 alone. Of these over 7,900 readings only 2 readings were made which were below limit, which are 0.03% of all test point readings made on the London Lines. The CP history over the last 20 years for the London Lines indicate that they are receiving acceptable CP.

4 Depth of Cover and Exposed Piping

A recent depth of cover (DoC) survey (June 2020) indicated the occurrence of 53 sites of exposed piping on the London Lines and that 15% of DoC readings had a DoC of less than 0.60m.

Table 4-1 Depth of Cover Survey Findings

	Depth Of Cover <0.6m	Total	% of Readings
Count of Readings	956	6,305	15%
Length of Readings (m)	20,037	134,991	15%

Current standards for depth of cover requirements can be found in Section 12.4.7.1 as per Table 12.2 of CSA Z662-19.

The following are a few pictures of the exposed piping from the June 2020 depth of cover survey.

Figure 4-1 Examples of London Lines Exposed Piping (June 2020)



Based upon the 3rd Party Damage Model completed for distribution assets, there is a decrease in 3rd Party hit frequency when increasing DoC. The average DoC was 0.48m for all surveyed points which were less than 0.6m. Based upon the model there is a 20% increase in 3rd Party hit frequency when the DoC is 0.48m versus 0.6m. A new main installation following current EGI DoC standards would be installed at depths of 0.75m and 1.2m depending on environmental conditions. The 3rd Party hit frequency increases by 22% when the DoC is at 0.6m versus 0.75m and by 76% when the DoC is 0.6m versus 1.2m.

5 Failures

A repair summary report created during June 2020 indicates a total of 29 leak repairs between 2011 and 2019.

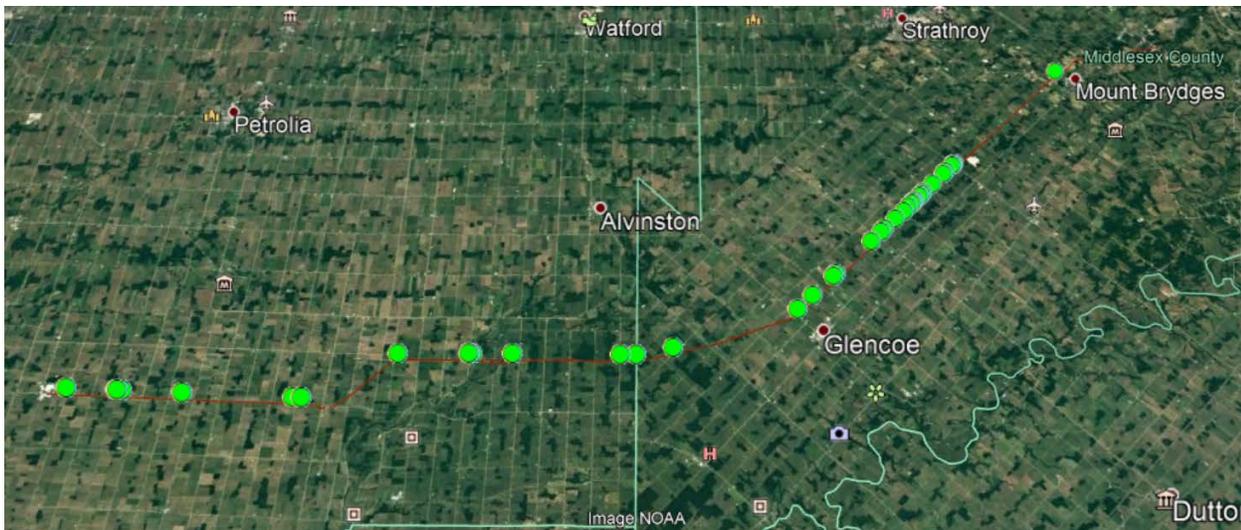
Of note, based upon the repair data, 38% (11 of 29 repairs) were due to compression couplings or the compression style repair sleeves used for previous repairs. Only 17% of the repairs could be directly attributed to corrosion leaks on the London Lines. SMA feedback indicates corrosion as the most common cause of leaks of the London Lines.

Table 5-1 Repair Summary

Year of Repair	Compression Coupling	Corrosion	Repair Clamp	Unknown	Valve	Weld	Grand Total
2011				1			1
2012	1		1	3			5
2013	1	1	3	1	1		7
2014	1	1	2		2		6
2015		1		1			2
2016		1					1
2017		1	1		2	1	5
2018				1			1
2019	1						1
Grand Total	4	5	7	7	5	1	29

Leak data reported to the Canadian Gas Association (CGA) indicate 40 leaks occurred on the current in-service London Line mains between 2013 and 2019. These leaks have been plotted as per the below map.

Figure 5-1 Plot of London Line Discovered Leaks



9 of the leaks, 2 class B and 7 class C, were discovered on a single main segment in 2013 (521247331) along Falconbridge Drive. This same main leg had an additional 3 C leaks between 2015-2017. The particular main segment has a length of 4.9km.

The London Lines had a leak rate 0.043 leaks/km/year between 2013-2019. This is in comparison to the Windsor Line which had a leak rate of 0.12 leaks/km/year over the same period (nearly 3 times higher than London Lines). The London Lines leak rate is a minimum of 10 times greater than the available average leak rate for the steel main population.

A mechanical model was applied to model corrosion leaks using available corrosion rates. Based upon the available electronic records the majority (89%) of pipe has a wall thickness of either 4.8mm, 5.6mm or 7.0mm. Using a corrosion rate of 0.046mm/yr, which is greater than 94% of the corrosion rate data points, for full wall loss the mains would have to be between 104 and 152 years of age

Based upon these calculations and corrosion rate data available we would not expect to see a significant increase in the number of corrosion leaks on this line for another 37 years. Unfortunately, due to the age, the long lengths of uncoated pipe, the large number of compression couplings and the unknown CP history there are concerns regarding the applicability of the corrosion rates.

6 Summary

London Lines represent 35% of 1930s steel pipe and 18% of bare pipe within the LUG network. Records of these lines are incomplete (filled in at a later date or not in paper files). Vintage steel (pre 1970s) have known quality issues when it comes to manufacturing and material specifications.

London Lines between 2013 and 2019 had a leak rate of 0.43 leaks/km/year, which is over 10 times greater than the available average leak rate for the steel main population. The available repair and leak information for London Lines indicates 38% of repairs since 2011 were due to compression couplings or repair clamps. 17% of repairs since 2011 could be attributed to corrosion leaks.

There are 53 sections of exposed piping and approximately 15% of DoC readings (6,300 m) show a DoC of less than 0.6m which have an average depth of 0.48m. Based upon the 3rd Party hit frequency model available there is a 20% increase in 3rd Party hit frequency when the DoC is 0.48m versus 0.6m.

There could potentially be anywhere between 6,000 and 12,000 unrestrained compression couplings on the London Lines. The London lines represents 30% of the coupled steel mains within the EGI distribution network. Compression coupling (or compression style repair clamps) leaks appear to account for 38% of the leak repairs on the London Lines between 2011 and 2019. Compression couplings are known to provide minimal to no mechanical resistance to pullout and can leak due to ground and pipe movement.

7 Conclusion and Recommendations

In conclusion, based upon the available data and information at this time, the London Lines represent some of the oldest and most vulnerable steel assets within the EGI distribution network. Additionally, London Lines comprises of 30% of all steel mains which are coupled together, 53 exposed pipe sections, 57,000m of reclaimed pipe, and 62,000m of bare steel, which are considered factors that impact condition

and risk for the pipelines. From a condition standpoint the DIMP department supports the replacement of the London Lines within the next 1-3 years.

Appendix A

POPULATION FILE



London Line
Population Active and

**System Design Criteria for Replacement
of the
London Lines**

Enbridge Gas Inc.

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1.0 DOCUMENT PURPOSE

The London Lines are large diameter high pressure distribution pipelines that take gas from the Dawn Hub and operate as a feed to several downstream distribution systems. The London Lines serve the predominantly residential and commercial markets of Glencoe, Mt. Brydges, Komoka, parts of Petrolia, and other small communities within the Lambton, Chatham-Kent and Middlesex counties (“The Market”). A full schematic of the London Lines can be found at Exhibit A, Tab 2, Schedule 2.

This document sets out the guidelines, process and criteria used to determine the replacement requirement of the London Lines, a high pressure distribution system, and to select the option that best meets the system demands and operational considerations.

The process of selecting the best alternative involves examining existing facilities, evaluating system demand, understanding system operating constraints, identifying a range of replacement alternatives and selecting the best alternative.

2.0 ASSESSMENT GUIDELINES

The process of developing a facilities replacement plan for a high pressure distribution system is summarized below.

1. Validate model
2. Establish current and future system operating criteria
3. Assess existing system demands and capacity
4. Identify alternative ways of serving the current system capacity
5. Select the best alternative

2.1. Validate Model

The hydraulic model for the system in question is validated against actual flow conditions to ensure it properly reflects the current demands and system operation.

2.2. Establish Current and Future System Operating Criteria

A pipeline has several operating criteria to ensure the system can operate within its constraints:

- Maximum Operating Pressures (MOP) - by code, the pipeline cannot operate in excess of its MOP.
- Minimum Delivery Pressure - the pipeline must meet all required delivery pressures for the customers it services.
- Minimum Inlet Pressure - the pipeline must be able to maintain the minimum pressure requirements into downstream systems.
- Peak Hour Demands – the distribution system must meet the peak hour demands from our customers at their design condition. This is generally the winter design day, but for some customers this peak occurs in fall due to process agricultural operations, such as grain drying.
- Design Day Demand Profile - Typically, customers consume natural gas at varying rates over a 24-hour period. Heat sensitive customers generally consume a higher volume of gas in the early morning and the late afternoon. Enbridge Gas is able to reflect the daily consumption pattern by developing profiles for each of its pipelines using historical data. This typical flow profile is then used to generate a peaking factor for steady state modelling which is applied to customer consumption data to generate the peak hour demands of the system.
- Weather - Most of the customers served in Union South Rate Zone are heat sensitive and their peak demand occurs on a very cold winter day. Enbridge Gas designs its facilities to meet the demands on a very cold day, defined as the design day. In this case, the design day temperature is -25.1 degrees Celsius, which is equivalent to a 43.1 heating degree days (HDD). The probability of a 43.1 HDD occurring is between 1% and 2 %, thus reasonably ensuring Enbridge Gas's customers can continue to be served during the coldest winter days.

Current operating criteria may not be the same as future ones. For instance, flow patterns, looping or compression changes on the Dawn-Parkway system can impact the inlet pressures available to laterals off that system. Large customers may require higher minimum delivery pressure, adding a constraint to the system.

2.3. Assess Existing Demands and Capacity

The existing system is reviewed to determine the ability of the pipelines to meet the demands of current customers. If the existing system is expected to exceed existing capacity or require replacement, including for integrity concerns, within 2 to 3 years (the lead time required to assess, design, obtain approval and construct facilities if required) the process continues through the following steps.

2.4. Identify Alternatives

When existing facilities are due for replacement due to integrity concerns, a wide range of alternatives are generated. These may include, but are not limited to:

- replacing the existing pipeline with a pipeline operating at the existing MOP;
- replacing the existing pipeline with a pipeline operating at a different MOP;
- replacing the existing pipeline with a different size;
- reducing high pressure replacement by extending other distribution systems;
- carrying out demand side management.

2.5. Select Best Alternative

The above alternatives are established during the early stages of a replacement plan. All alternatives are given preliminary review for feasibility, and practicable ones are organized into a key alternatives list.

Each alternative on the key alternatives list is further evaluated in detail to make a final recommendation for replacement.

Criteria for selecting the best alternative include, but are not limited to:

- economics;
- cost;
- construction feasibility;
- capacity created;
- reliability of supply;
- system integrity benefits;
- other benefits or shortcomings.

The resulting best alternative is carried forward for internal and external approvals.

2.6. Summary

Although each situation brings its own unique characteristics, the above guidelines set out the principles to be used for assessing the need for replacement of a high pressure distribution pipeline.

3.0 CURRENT APPLICATION

This section applies the assessment guidelines as discussed in Section 2.0 above.

3.1. Facilities

The following section will describe the facilities of the London Lines, including the pipelines and delivery locations.

3.1.1. Pipelines

The existing London Lines comprise of the London South Line and London Dominion Line which are two pipelines that are parallel to each other, approximately 60 km and 75 km in length, respectively. These pipelines include pipe segments that are NPS 8, 10 and 12 with a MOP of 1900 kPa. They run from Enbridge Gas's Dawn Hub to Komoka, with the London South Line terminating roughly 15 km upstream, near Melbourne. These lines primarily serve the residential and commercial markets of Glencoe, Mt. Brydges, Komoka, parts of Petrolia, and other small communities within the Lambton, Chatham-Kent and Middlesex counties.

The London Lines are supplied from the Dawn Hub through Dawn South London Lines Station. This station reduces the pressure from 6895 kPa to 1900 kPa.

The proposed project involves replacing the entire London Lines, from the Dawn Hub to Komoka Station in addition to adding a second feed from Strathroy Gate Station. This second feed will comprise of 8.4 km NPS 6 ST 3447 kPa MOP pipe, beginning at Strathroy Gate Station and tying into the London Lines Replacement on Falconbridge Rd between Melbourne and Mt. Brydges. A schematic of the proposed London Lines Replacement can be found in Exhibit B, Tab 2, Schedule 3.

3.1.2. Pressure Reducing Stations

The London Lines, currently supplied through Dawn South London Lines Station, feeds The Market through forty-five pressure reducing stations from Dawn to Komoka. These stations primarily reduce the pressure from the London Lines to supply 420 kPa and 550 kPa MOP systems, with exceptions being Dawn Twp Con 8 and Marthaville Road Stations, which feed into the 860 kPa system serving Petrolia and Oil Springs, Oakdale Header and Shetland North Stations, which feed into the 1030 kPa system that serves Bothwell and Thamesville, and Komoka Station that feeds the 1240 kPa system that mainly serves the community of Delaware.

3.1.3. Distribution Network

The London Lines feed into numerous distribution systems, the largest of which are Glencoe, supplied through Glencoe Gate Station, Mt. Brydges, supplied through Mount Brydges North and South Gate Stations and Komoka/Kilworth, supplied primarily through Komoka Railway and Glendon Drive Stations.

3.2. Validate Model

The London Lines hydraulic model was last validated in September 2019 based on actual flow conditions from January 30, 2019, which was a 41.3 HDD. Pressure was verified to within 2% of MOP at Komoka Station, near the end of the system.

3.3. Operating Criteria

The following section will describe the operating criteria of the London Lines.

3.3.1. Maximum Operating Pressure

The maximum operating pressure (MOP) of the NPS 8/10/12 London Lines is 1900 kPa. The maximum operating pressure of the proposed NPS 4 and 6 London Lines Replacement is 3447 kPa.

3.3.2. Minimum Delivery Pressure

There are two key locations along the London Lines where system pressures must be maintained above a specific minimum pressure during design conditions. One location is Wardsville Line Station, the other is Komoka Station. These two key locations are system constraints as they feed higher pressure laterals with MOPs of 1380 kPa and 1240 kPa, respectively.

The first key location, the Wardsville Line Station, is located on Oil Field Dr, roughly 35 km east of Dawn; it reduces the pressure from the London Lines to a 1380 kPa MOP system that feeds the areas of Wardsville, Newbury and some process

agricultural customers. The Wardsville Line Station will require a minimum of 1827 kPa inlet pressure to maintain the feed into the 1380 kPa downstream system and maintain secure reliable gas delivery to residential and commercial customers downstream. This station will be the constraint along the portion of the London Line Replacement between Dawn and the proposed connection from Strathroy. It is not a constraint on the current London Lines system as the lines are single fed from Dawn and Komoka Station is significantly further downstream.

The second key location, Komoka Station, is located along Komoka Rd near Glendon Dr, roughly 18 km west of Central London. This station currently reduces the pressure from the London Lines to a 1240 kPa MOP system that feeds gas into Delaware. In the proposed design, it will also feed an existing 1900 kPa MOP system serving Komoka and Kilworth. The Komoka Station will have a minimum inlet of 2347 kPa that must be maintained in order to feed the residential, commercial customers in Komoka and Kilworth. This station is the current constraint on the London Lines and will continue to be the constraint along the portion of the London Line Replacement between the new connection from Strathroy and Komoka.

As the system demand increases, flow rates in the high pressure pipelines increase, resulting in increased pressure losses. These pressure losses will lead to a decrease in the inlet pressures supplied to Wardsville Line and Komoka Stations over time.

3.4. Existing Design Day Demands and Capacity

The existing design day demands for the London Lines were developed from customer consumption data for existing customers and requested peak hourly demand for identified customer additions. Individual customer peak hour demands are reflective of the design day demand profile and design day temperature, as noted in section 2.2.

3.5. Identify Reinforcement Alternatives

Enbridge Gas considers a broad range of alternatives during the development of a reinforcement or replacement plan. These alternatives are investigated at varying levels of detail depending upon their feasibility. The following alternatives were identified and assessed for the London Lines Replacement Project:

3.5.1. Replacing the Existing Pipeline with a Pipeline Operating at the Existing MOP

3.5.1.1. Replacing with a Single Fed, 1900 kPa Pipeline from Dawn

Enbridge Gas reviewed the option of installing a single fed, NPS 12 and 8 ST pipeline operating at 1900 kPa. This design was based on replacement capacity and the same configuration of the existing system. Replacing the London Lines with an NPS 12/8 was a significantly higher cost than the proposed design, at 24% higher. Additionally, a single fed option would provide no reliability of supply for emergencies or operational outages. Any outage on the line would cause loss of all customers downstream of the isolation, aside from some small areas which are dual fed from other systems and may be sustained by those systems in non-peak conditions. This alternative was rejected due to cost and lack of operational flexibility.

3.5.1.2. Replacing with a Dual Fed, 1900 kPa Pipeline from Dawn and Strathroy

Enbridge Gas reviewed the option of installing a combination of NPS 10/8/6 ST pipeline operating at 1900 kPa, with feeds from Dawn and Strathroy. The feed from Strathroy would be a new 8.4 km 1900 kPa pipeline from Strathroy Gate Station, which is served by the Dawn-Parkway pipeline. This alternative reduced the required size of 51.5 km of the single fed design to NPS 6 as a result of the additional high pressure feed. Some NPS 10 pipe was still required, however, due to the process agricultural demand in the west section of the line, primarily between Dawn and Glencoe.

This option provided reliability of supply for emergency and operational requirements during summer temperatures but was unable to sustain expected loads from a single feed in shoulder months such as April and October. Additionally, this alternative was estimated at 12% higher than the proposed design. This alternative was rejected due to cost and reduced operational flexibility.

3.5.2. Replacing the Existing Pipeline with a Pipeline Operating at a Different MOP

3.5.2.1. Replacing with a Single Fed, 3447 kPa MOP Pipeline from Dawn

Enbridge Gas reviewed the option of installing a single fed, NPS 10, 8 and 6 ST pipeline operating at 3447 kPa. This design was based on replacement capacity and the same configuration of the existing system. Replacing the London Lines with an NPS 10/8/6 was a higher cost than the proposed design, at 11% higher. Additionally, a single fed option would provide no reliability of supply for emergencies or operational outages. Any outage on the line would cause loss of all customers downstream of the isolation, aside from some small areas which are dual fed from other systems and may be sustained by those systems in non-peak conditions. This alternative was rejected due to cost and lack of operational flexibility.

3.5.2.2. Replacing with a Dual Fed, 3447 kPa Pipeline from Dawn and Strathroy

Enbridge Gas reviewed the option of installing a combination of NPS 6 and 4 ST pipeline operating at 3447 kPa, with feeds from Dawn and Strathroy. The feed from Strathroy would be a new 8.4 km 3447 kPa pipeline from Strathroy Gate Station, which is served by the Dawn-Parkway pipeline. This alternative reduced the required size of 15 km of NPS 10 to NPS 6, 51.5 km of NPS 8 to NPS 4 and 7 km of NPS 8 to NPS 6 compared to the single fed option as a result of the additional high pressure feed.

This option provided reliability of supply for emergency and operational requirements during summer and would likely be able to sustain expected loads in shoulder month temperatures such as April and October as well. Additionally, this was the least cost option of all the alternatives, and as such is the proposed design.

3.5.3. Reducing High Pressure Replacement by Extending Other Distribution Systems

3.5.3.1. Replacing with a Combination 1900 kPa and 420 kPa MOP system

Enbridge Gas evaluated replacing the London Lines with a combination 1900 kPa and 420 kPa MOP pipeline. The result was 22 km of replacement pipe could be installed as NPS 6 PE and tied into existing 420 kPa MOP systems, with the remaining replacement pipe, approximately 60 km, as primarily NPS 8 ST, with some shorter sections of NPS 10 and 4 ST. Two 1900 kPa feeds from Dawn and Strathroy were required to maintain existing high pressure laterals served from the London Lines. The feed from Strathroy would be a new 8.4 km 1900 kPa pipeline from Strathroy Gate Station, which is served by the Dawn-Parkway pipeline.

Although dual fed, this option provided no reliability of supply for the 1900 kPa systems as they are connected only by the lower pressure 420 kPa network. Any outages as a result of emergencies or operational constraints would result in the loss of all customers downstream of the isolation on the corresponding section of 1900 kPa pipeline. This alternative was rejected due to lack of operational flexibility and cost, at 8% higher than the proposed design.

3.5.4. Obtaining Supply from Nearby Non-Enbridge Gas Pipelines

There are currently no nearby non-Enbridge Gas pipelines to leverage as an alternative supply to the London Lines Replacement pipeline. Independent producers along this route are not large enough to support The Market, nor are they guaranteed as a source of supply; therefore, this alternative was not pursued further.

3.5.5. Implementing Demand Side Management

Enbridge Gas reviewed the alternative of implementing supplemental Demand Side Management (“DSM”) for customers along the London Lines in order to defer, avoid or reduce the scale of this replacement project. If Enbridge Gas were to implement supplemental DSM, it would be possible to reduce demand along the lines; however, the demand could not be eliminated altogether. Because this project is being driven by integrity concerns of the existing pipelines, the need for replacement of the London Lines cannot be deferred or eliminated by implementing DSM.

Enbridge Gas also looked at the option of implementing supplemental DSM to reduce the diameter of the pipeline required for the London Lines Replacement Project. In order to build a replacement pipeline to serve only the 2021 forecast demand, and assuming all additional future demand could be offset through supplemental DSM programs, 10.3 km of NPS 6 could be reduced to NPS 4 in the recommended design. This cost to execute a supplemental DSM program that satisfies the forecast demand, would exceed the cost savings of the downsized project design within 2 years. At that point, continual annual cost for DSM or a pipeline reinforcement project would be required. Further details on the option of implementing supplemental DSM and Integrated Resource Planning (“IRP”) can be found at Exhibit B, Tab 2, Schedule 4.

As a result of this analysis, this option was eliminated in preliminary assessment of facility and non-facility alternatives as it was determined that implementing supplemental DSM to reduce the required diameter of the pipeline is not an economically feasible alternative.

3.5.6. Selection of Best Alternative

Enbridge Gas proposes that the best alternative to replace the London Lines, of all considered, is to build a combination NPS 6 and 4 ST, dual fed pipeline operating at

a MOP of 3447 kPa. This 90.5 km replacement pipeline will run from the Dawn Hub, 82.1 km east to Komoka Station. There will be an additional 8.4 km pipeline from Strathroy Gate Station to connect with the main line at Sutherland Rd and Falconbridge Rd, west of Mount Brydges. This will result in the abandonment of 135 km of the existing, London Lines, comprised of the 60 km London South Line and 75 km London Dominion Line. This option was chosen as it offers the lowest cost while also providing equivalent replacement capacity to the existing line and reliability of supply for operational and emergency scenarios.

3.5.7. Summary

Enbridge Gas reviewed a number of alternatives including installing single and dual fed pipelines, pipelines operating at 1900 kPa and 3447 kPa MOPs, extending existing plastic distribution systems, obtaining supply from other non-Enbridge Gas pipelines or suppliers, and implementing demand side management.

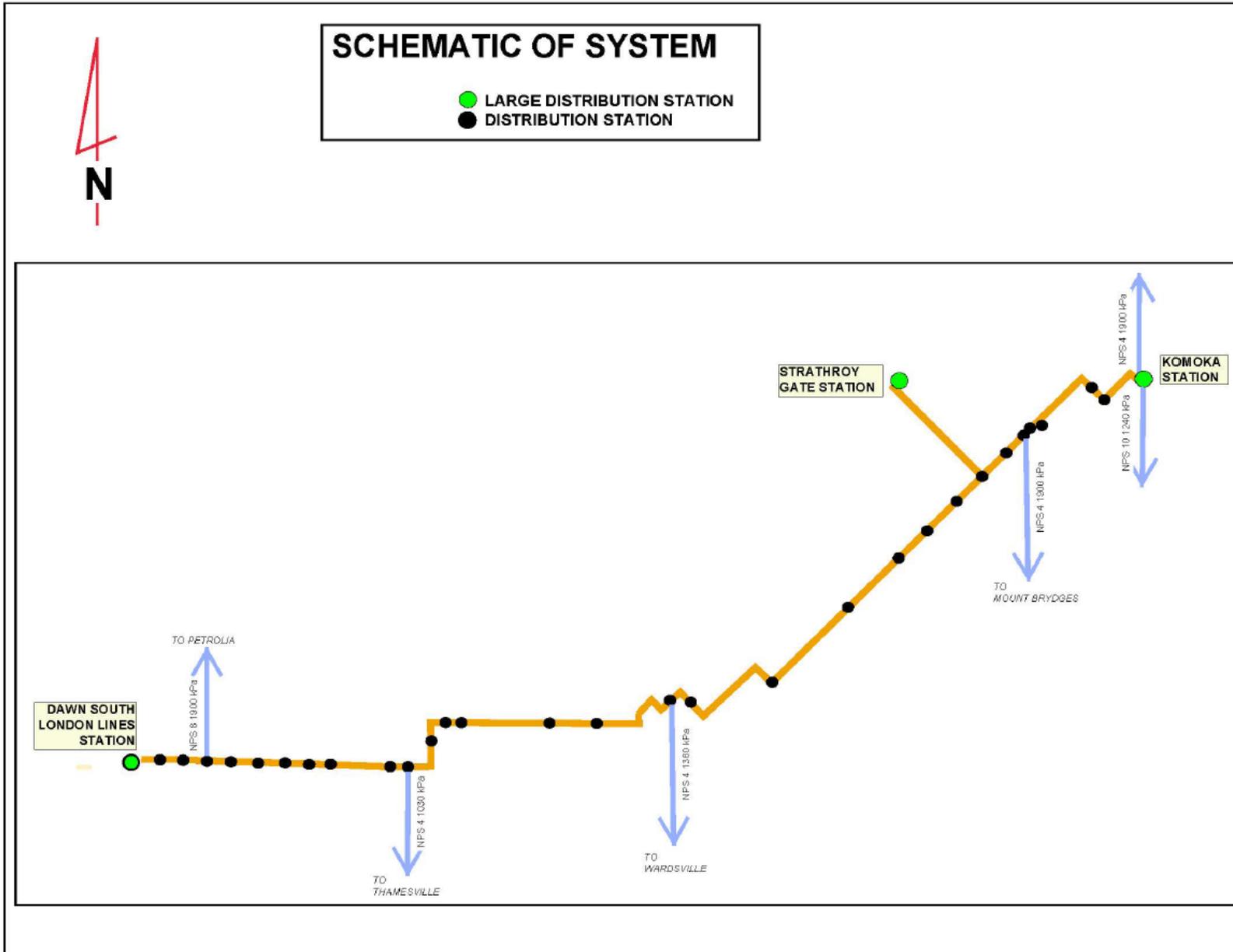
Enbridge Gas proposes to construct the best alternative which is a 90.5 km 3447 kPa MOP pipeline, with 39 km as NPS 6 and 51.5 km as NPS 4. This replacement pipeline will run from Dawn South London Lines Station at Benpath Line to Komoka Station at Komoka Rd. This proposed replacement will result in the abandonment of 135 km of the existing 1900 kPa MOP London Lines.

4.0 CONCLUSION

Enbridge Gas uses a number of criteria to review the replacement design of a high pressure distribution pipeline operating as the primary feed to several other downstream systems.

The process involves examining existing facilities, evaluating system demand and understanding system operating criteria in order to identify several replacement alternatives. These alternatives are then investigated at varying levels of detail depending upon project feasibility including engineering, cost, construction feasibility, capacity and reliability of supply.

Through this process, Enbridge Gas has identified the most efficient project to provide The Market with reliable supply and adequate capacity to replace that of the existing system. This project is to install a 90.5 km combination NPS 6 and 4 ST dual fed, high pressure distribution pipeline to replace the existing London Lines due to integrity concern.



INTEGRATED RESOURCE PLANNING ("IRP")

1. The OEB is currently reviewing Enbridge Gas's IRP Proposal and is developing an IRP Framework for Enbridge Gas that will support the integration of IRP into system planning processes, including the assessment of IRP alternatives ("IRPAs") together with other facility and non-facility alternatives,¹ through the EB-2020-0091 proceeding. As this Application deals with a pipeline replacement project designed to address pipeline integrity, there is no appropriate opportunity for IRP to change the need for this project. The opportunity for DSM to adjust the scope of the project was assessed and deemed not feasible.
2. Enbridge Gas compared the proposed replacement project to the cost of investment in supplemental DSM programming sufficient to reduce hourly peak system demands to the point that sections of the existing pipeline could be replaced with a smaller diameter NPS 4 pipeline. Enbridge Gas found that the cost of investment in sufficient supplemental DSM programming to reduce system demands by 359 m³/h was approximately \$4.3 million over two years. This solution would only provide peak hourly system demand reductions sufficient to defer the need for the proposed project or a further pipeline expansion project by two years based on Enbridge Gas's current demand forecasts. The cost to execute a supplemental DSM program that satisfies the forecast demand would exceed the \$2.9 million in cost savings of the downsized project design. Further, the preferred NPS 6 option meets all forecasted load growth for the area whereas downsizing to NPS 4 with the incremental DSM costs would only provide two years of load growth needs, thereby necessitating

¹ Enbridge Gas has proposed that the OEB consider such IRPAs as: demand response programs; enhanced targeted energy efficiency programs; compressed natural gas; and low-carbon and non-gas solutions.

either incremental DSM spend beyond those two years, or incremental pipeline reinforcement costs.

3. Considering that: (i) the existing London Lines are being replaced to address the reliability and safety of the system; (ii) it is not cost-effective to facilitate replacement of the Existing Lines with a smaller diameter NPS 4 pipeline by investing in supplemental DSM programming, Enbridge Gas concluded that the proposed replacement project is the preferred alternative.

SUMMARY OF ALTERNATIVES

Alt #	Alternative Description	Rationale for Decision	Cost (\$M)
	<u>Proposed Project</u> Replace with NPS 6/4 3450kPa MOP, dual fed line (See Section 3.5.2.2 in Exhibit B, Tab 2, Schedule 2)	Provides replacement capacity for the current London Lines while also providing reliability of supply for emergency and operational scenarios in summer and shoulder month conditions.	132.9
Alt 1	Replace with NPS 12/8 1900 kPa MOP, single fed line (See Section 3.5.1.1 in Exhibit B, Tab 2, Schedule 2)	Provides replacement capacity for the current London Lines, but no reliability of supply for emergency and operational scenarios. Cost is 24% higher than the proposed option.	164.7
Alt 2	Replace with NPS 10/8/6 1900 kPa MOP dual fed line (See Section 3.5.1.2 in Exhibit B, Tab 2, Schedule 2)	Provides replacement capacity for the current London Lines while also providing reliability of supply for emergency and operational scenarios in summer conditions but not shoulder months when construction is common. Cost is 12% higher than proposed option.	148.2
Alt 3	Replace with NPS 10/8/6 3450 kPa MOP single fed line (See Section 3.5.2.1 in Exhibit B, Tab 2, Schedule 2)	Provides replacement capacity for the current London Lines, but no reliability of supply for emergency and operational scenarios. Cost is 11% higher than recommended design.	146.9
Alt 4	Replace with NPS 10/8/4 1900 kPa MOP and NPS 6 420 kPa MOP dual fed line (See Section 3.5.3.1 in Exhibit B, Tab 2, Schedule 2)	Provides replacement capacity for the current London Lines, but no reliability of supply for emergency and operational scenarios. Cost is 8% higher than proposed design.	144.1
Alt 5	Replace with NPS 6/4 3450 kPa line, reducing proportion of NPS 6 through supplemental DSM (See Section 3.5.5 in Exhibit B, Tab 2, Schedule 2)	Provides capacity to serve 2021 expected demand only, while also providing reliability of supply for emergency and operational scenarios. Savings on pipeline size reduction would be exhausted by less than 2 years of supplemental DSM programming, after which continued supplemental DSM spend or pipeline reinforcement would be required.	130.0

Note: All costs shown in the above table are direct capital and abandonment costs. Interest during construction and indirect overhead costs were not included.

OTHER ALTERNATIVES CONSIDERED

Alt #	Alternative Description	Rationale for Decision
Alt 6	Obtaining supply from non-Enbridge pipelines (See Section 3.5.4 in Exhibit B, Tab 2, Schedule 2)	No nearby non-Enbridge pipelines or alternative sources of supply with adequate, reliable capacity to serve the system demands.

ENVIRONMENTAL MATTERS

Environmental Report

1. Stantec Consulting Ltd. (Stantec) was retained by Enbridge Gas Inc. (Enbridge Gas) to undertake a route evaluation and environmental and socio-economic impact study, which included a cumulative effects assessment, to select the Preferred Route (PR) for the proposed London Lines Replacement Project. As part of development of the study, a consultation program was implemented to receive input from interested and potentially affected parties including Indigenous communities. Input gathered from the consultation program was evaluated and integrated into the study. Mitigation measures designed to minimize environmental and community impacts resulting from construction of the Project were also developed as part of the study.
2. Enbridge Gas supports the findings made by Stantec.
3. The results of the study are documented in the Environmental Report (ER) entitled London Lines Replacement Project, July 16, 2020. The ER conforms to the Ontario Energy Board's (Board) *Environmental Guidelines for Location, Construction and Operation of Hydrocarbon Pipelines in Ontario, 7th Edition, 2016* ("Environmental Guidelines").
4. A copy of the ER can be found at Exhibit C, Tab 2, Schedule 1. Details of the Consultation Process can be found in Section 2.0. of the ER. Details of the Route Evaluation and Selection Process can be found in section 4.0 and details of the Potential Impacts, Mitigation and Protective Measures and Net Impacts can be found in Section 5.0 of the ER.
5. Due to physical distancing requirements set out by the Government of Canada and

the Province of Ontario due to the COVID-19 pandemic, a Virtual Open House was hosted online and was accessible from April 20, 2020 to May 1, 2020. This two-week time period was selected to allow agencies, indigenous communities, landowners, residents and other stakeholders ample opportunity to review the project information and provide input.

6. During the consultation process for development of the ER, comments were received from the public, agencies, interest groups, affected third party utilities, municipal and elected officials and identified Indigenous groups. Additional routes for the Strathroy Alternative were added as a result of consultation with the Municipality of Strathroy-Caradoc. Concerns with the Project were related to; traffic, congestion, impacts to high value crops, agricultural activities, existing infrastructure and impacts to existing and future projects and developments. Many of the questions required follow up by Enbridge Gas. Outcomes from the consultation process are summarized in Appendices B1 to B5 of the ER.
7. A link to the ER was provided to the Ontario Pipeline Coordination Committee ("OPCC") on July 22, 2020. The ER was also provided to the local Conservation Authorities and the Counties of Lambton and Middlesex, the Township of Dawn-Euphemia, Municipality of Southwest Middlesex, Municipality of Strathroy-Caradoc, and the Municipality of Middlesex Centre.
8. At the time of submission of this Application, three comments have been received from the OPCC regarding the ER. A summary of OPCC comments are filed as Exhibit C, Tab 2, Schedule 2.
9. Enbridge Gas also met on-site with municipal officials to solicit input on the alignment of the Project. Early discussions of the proposed work were positive, and

as the detailed design progresses, discussions will continue and Enbridge Gas will continue to work with municipalities until the Project is completed.

10. A summary of Indigenous Community consultation can be found at Exhibit G of this application.

Environmental Protection Plan

11. All required environmental permits and necessary agreements will be coordinated with the following:

- Environment and Climate Change Canada
- Fisheries and Oceans Canada
- Ontario Ministry of Environment, Conservation and Parks (MECP)
- Ontario Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI), formerly Ministry of Tourism, Culture and Sport (MTCS)
- Upper Thames River Conservation Authority (UTRCA)
- Lower Thames Valley Conservation Authority (LTVCA)
- St.Clair Region Conservation Authority (SCRCA)

12. Recommended mitigation measures for potential effects have been developed in the ER to address environmental and socio-economic features found along the PR.

These include but are not limited to:

- Groundwater
- Aquatic Features: Watercourses and Wetlands
- Terrestrial Habitat and Vegetation
- Wildlife, Wildlife Habitat and Species at Risk (SAR)
- Archaeological Resources
- Heritage Resources and Cultural Heritage Landscapes
- Agricultural Features

- Socio-economic environment
 - Infrastructure
13. A summary of potential effects and recommended mitigation measures and protective measures can be found in Section 5.0, Table 5-1 of the ER.
14. Construction of the Project will be conducted in accordance with standard construction practices and the recommendations in the ER. An Environmental Protection Plan (EPP) will be developed for the Project. The EPP will incorporate recommended mitigation measures contained in the ER and those mitigation measures obtained from agency consultation for the environmental issues associated with the proposed works. These mitigation measures will be communicated to the construction contractor prior to the commencement of construction of the Project. A qualified Environmental Inspector or suitable representative will be available to assist the Project Manager in ensuring that mitigation measures identified in the EPP as well as permitting requirements and any associated conditions of approval in the Board Decision are adhered to and that commitments made to the public, landowners and agencies are honoured. The Environmental Inspector and Project Manager will also ensure that any unforeseen environmental circumstances that arise before, during and after construction are appropriately addressed.
15. Using the procedures found within the ER, EPP and additional mitigation measures provided by stakeholders through the permitting and approval process, it is expected that environmental impacts resulting from construction of the Project will not be significant. Enbridge Gas will complete the EPP prior to mobilization and construction of the Project.

Archaeology Resources

16. A stage 1 Archaeological Assessment (AA) for the Proposed routes was completed by Stantec. The Stage 1 AA can be found in Appendix F of the ER.
17. The Stage 1 AA indicated that a significant portion of the study area retains potential for the identification and documentation of archaeological resources. A Stage 2 AA will be required for any portion of the Project anticipated construction which impacts an area of archaeological potential.

Heritage Resources and Cultural Heritage Landscapes

18. The MHSTCI Criteria for Evaluation Potential for Built Heritage Resources and Cultural Heritage Landscapes Checklist was completed for the study area. Overall, five indicators of cultural heritage value of interest were identified in the study area. A Cultural Heritage Evaluation Report will be completed prior to construction and submitted to the MHSTCI for their review and comment.

ENVIRONMENTAL REPORT

1. Due to the size of the Environmental Report (ER) the ER can be found electronically on Enbridge Gas's company website under the Project Tabs at the following link: <https://www.enbridgegas.com/About-Us>

**London Lines Replacement Project
Correspondence Tracking
Ontario Pipeline Coordinating Committee (OPCC)**

N/A - Not Available

Comment Number	Stakeholder Group	Stakeholder Representative Name	Method of Communication	Date of Communication	Summary of Comment	Date of Response	Summary of Response
1	All OPCC contacts on the contact list	N/A	Email	July 22, 2020	Enbridge emailed a notice of the Environmental Report and a link to the report, with a request for comments to be submitted by September 3, 2020.	N/A	N/A
2	County of Middlesex	Chris Traini County Engineer	Email	July 23, 2020	Chris Traini submitted comments on the Environmental Report, noting the County of Middlesex's comments regarding the preferred route discussed during the June 17, 2020 meeting (meeting minutes were attached to the email). Mr. Traini noted that it was his understanding that further study and survey of the route and another stakeholder meeting was going to held prior to the submission of the Environmental Report. Mr. Traini requested a response and how these issues will be resolved.	July 27, 2020	Enbridge and Mr. Triani held a phone call meeting to discuss: - Last week communications triggered some excitement within the municipalities as the ER came out, request for MC for pre work, and contractors calling them for locates, etc. - He [Chris] wanted clarity on the LTC in late August. We said we hope to have the route finalized by that time - Greg Storms doesn't have too much technical background. He's concerned about the yard but Chris is supportive of it. Chris suggested when speaking to him that we come prepared with examples of other work we've done on similar roads and what specs we used to restore those roads - George won't have to many concerns except on Parkhouse (also location of yard) - Rob Cascadden has more of the technical knowledge (Middlesex Centre) - Chris stressed that in all of our communications we emphasize that it's a distribution pipeline. They are more likely to support distribution and allow room in the ROW for a distribution pipe that supports residents of Middlesex county. - Hope to have OEB approval beginning of March so that we can start construction in May. - Chris suggested that after all these on site meetings the municipalities will have an internal session to discuss outcomes of all these meetings - He asked if we were going to schedule site visits with Rob and George as well – we said we would reach out. - For the municipal consent for prework he asked that Aecon fill out the work permit application to occupy the roads etc. It can be a blanket one for a month or two, so we have ample time to do the work. - On site meeting with Chris Aug 5.
3	Ministry of Transportation (MTO)	Amanda Rodek	Email	August 25, 2020	MTO provided comments on the Environmental Report, noting conditions that are required to be met prior to any construction (i.e. permits, highway crossings installed through trenchless methods, details on the highway crossings etc.).	N/A	N/A
4	Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI)	Katherine Kizarti	Email	August 26, 2020	MHSTCI provided comments on the Environmental Report, related to additional regulatory processes, archaeological resources, heritage resources and cultural heritage landscapes, potential impacts, mitigation and protective measures and net impacts and comments on the figures provided in Appendix A and the Stage 1 Archaeological Assessment in Appendix F.	N/A	N/A

From: [Rakesh Torul](#)
To: Zora.Crnojacki@oeb.ca; Helma.Geerts@ontario.ca; dan.minkin@ontario.ca; tony.difabio@ontario.ca; kmanouchehri@tssa.org; sally.renwick@ontario.ca; maya.harris@ontario.ca; scott.oliver@ontario.ca; michael.elms@ontario.ca; bridget.schulte-hostedde@ontario.ca; shannon.mccabe@ontario.ca; kathy.mcdonald@ontario.ca; ruth.orwin@ontario.ca; crystal.lafrance@ontario.ca; barbara.slattery@ontario.ca; patrick.Grace@infrastructure.ca; sourceprotectionscreening@ontario.ca
Cc: [Kelsey Mills](#); [Stephanie Allman](#); [LondonLines](#); [Allison Chong](#)
Subject: London Lines Replacement Project - Environmental Report
Date: Wednesday, July 22, 2020 4:21:47 PM

Good afternoon,

Enbridge Gas Inc. (Enbridge Gas) is seeking to construct a natural gas pipeline in order to replace a section of an existing natural gas pipeline in the Counties of Lambton and Middlesex. The Ontario Energy Board's Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7th Edition 2016 (Guidelines) recommend that a project proponent provide a copy of the environmental report (ER) for a project to the Ontario Pipeline Coordinating Committee for review and comment. In the link below please find a copy of the ER for the London Lines Replacement Project (the Project). Pursuant to the Guidelines please provide any comments on the ER for the Project by no later than Thursday September 3, 2020. You can access the ER at the link below and navigating to the London Lines Replacement Project Tab.

<https://www.enbridgegas.com/About-Us>

Comments should be directed to:

Kelsey Mills
Advisor, Environment
Enbridge Gas Inc.
101 Honda Boulevard
Markham, Ontario
L6C 0M6
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Email: londonlines@stantec.com

Thank you.

Rakesh Torul CPA, CMA
Technical Manager, Regulatory Applications
Regulatory Affairs

ENBRIDGE GAS INC.
TEL: 416-753-7818 | CELL: 437-230-4007 | rakesh.torul@enbridge.com
500 Consumers Road, North York, Ontario M2J 1P8

enbridgegas.com
Integrity. Safety. Respect.

From: [Hartwig, Emily](#)
To: [Jason Homewood](#); randall.vanwagner@ltvca.ca
Cc: [Kelsey Mills](#); [Allison Chong](#); [Rakesh Torul](#); londonlines@stantec.com
Subject: London Lines Replacement Project: Environmental Report
Date: Thursday, July 23, 2020 2:27:00 PM

Good afternoon Jason and Randall,

As you are aware, Enbridge Gas Inc. (Enbridge Gas) is seeking to construct a natural gas pipeline in order to replace a section of an existing natural gas pipeline in the Counties of Lambton and Middlesex . The Ontario Energy Board's *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7th Edition 2016* (Guidelines) recommend that a project proponent provide a copy of the environmental report (ER) for a project to the Ontario Pipeline Coordinating Committee for review and comment. In the link below please find a copy of the ER for the London Lines Replacement Project (the Project). Pursuant to the Guidelines please provide any comments on the ER for the Project by no later than Thursday September 3, 2020. You can access the ER at the link below and navigating to the Projects Tab and London Lines Replacement drop down.

<https://www.enbridgegas.com/About-Us>

Comments should be directed to:

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Email: londonlines@stantec.com

Many thanks and take care,
Emily

Emily Hartwig B.Sc., EP.
Environmental Consultant, Assessment and Permitting

Direct: 519 780-8186
Mobile: 226 979-4457
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From: [Hartwig, Emily](#)
To: [Melissa Deisley](#)
Cc: [Kelsey Mills](#); [Allison Chong](#); [Rakesh Torul](#); londonlines@stantec.com
Subject: London Lines Replacement Project: Environmental Report
Date: Thursday, July 23, 2020 2:27:00 PM

Good afternoon Melissa,

As you are aware, Enbridge Gas Inc. (Enbridge Gas) is seeking to construct a natural gas pipeline in order to replace a section of an existing natural gas pipeline in the Counties of Lambton and Middlesex . The Ontario Energy Board's *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7th Edition 2016* (Guidelines) recommend that a project proponent provide a copy of the environmental report (ER) for a project to the Ontario Pipeline Coordinating Committee for review and comment. In the link below please find a copy of the ER for the London Lines Replacement Project (the Project). Pursuant to the Guidelines please provide any comments on the ER for the Project by no later than Thursday September 3, 2020. You can access the ER at the link below and navigating to the Projects Tab and London Lines Replacement drop down.

<https://www.enbridgegas.com/About-Us>

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Many thanks and take care,
Emily

Emily Hartwig B.Sc., EP.
Environmental Consultant, Assessment and Permitting

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From: [Hartwig, Emily](#)
To: [Karen Winfield](#); annett@thamesriver.on.ca
Cc: [Kelsey Mills](#); [Allison Chong](#); [Rakesh Torul](#); londonlines@stantec.com
Subject: London Lines Replacement Project: Environmental Report
Date: Thursday, July 23, 2020 2:27:00 PM

Good afternoon Karen and Tracey,

As you are aware, Enbridge Gas Inc. (Enbridge Gas) is seeking to construct a natural gas pipeline in order to replace a section of an existing natural gas pipeline in the Counties of Lambton and Middlesex . The Ontario Energy Board's *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7th Edition 2016* (Guidelines) recommend that a project proponent provide a copy of the environmental report (ER) for a project to the Ontario Pipeline Coordinating Committee for review and comment. In the link below please find a copy of the ER for the London Lines Replacement Project (the Project). Pursuant to the Guidelines please provide any comments on the ER for the Project by no later than Thursday September 3, 2020. You can access the ER at the link below and navigating to the Projects Tab and London Lines Replacement drop down.

<https://www.enbridgegas.com/About-Us>

Comments should be directed to:

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Email: londonlines@stantec.com

Many thanks and take care,
Emily

Emily Hartwig B.Sc., EP.
Environmental Consultant, Assessment and Permitting

Direct: 519 780-8186
Mobile: 226 979-4457
Emily.Hartwig@stantec.com

Stantec
1-70 Southgate Drive
Guelph ON N1G 4P5



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From: [Lauren Whitwham](#)
To: ron.vanhorne@county-lambton.on.ca; jason.cole@county-lambton.on.ca; [Matt Deline](#)
Cc: [Brian Lennie](#); [Kelsey Mills](#); [Allison Chong](#); [Rakesh Torul](#); [LondonLines](#)
Subject: London Lines Replacement Project: Environmental Report
Date: Thursday, July 23, 2020 10:07:00 AM

Good morning,

As you are aware, Enbridge Gas Inc. (Enbridge Gas) is seeking to construct a natural gas pipeline in order to replace a section of an existing natural gas pipeline in the Counties of Lambton and Middlesex . The Ontario Energy Board's *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7th Edition 2016* (Guidelines) recommend that a project proponent provide a copy of the environmental report (ER) for a project to the Ontario Pipeline Coordinating Committee for review and comment. In the link below please find a copy of the ER for the London Lines Replacement Project (the Project). Pursuant to the Guidelines please provide any comments on the ER for the Project by no later than Thursday September 3, 2020. You can access the ER at the link below and navigating to the Projects Tab and London Lines Replacement drop down.

<https://www.enbridgegas.com/About-Us>

Comments should be directed to:

Kelsey Mills
Advisor, Environment
Enbridge Gas Inc.
101 Honda Boulevard
Markham, Ontario
L6C 0M6
Cell: 416-454-9539
Email: londonlines@stantec.com

Many thanks and take care,
Lauren

Lauren Whitwham

Analyst, Indigenous, Municipal Affairs & Stakeholder Relation

—

ENBRIDGE GAS INC.

TEL: 519-667-4100 x 5153545 | CELL: 519-852-3474 | lauren.whitwham@enbridge.com
109 Commissioners Road West, London, ON N6A4P1

Safety. Integrity. Respect.

From: [Lauren Whitwham](#)
To: [Bill Rayburn](#); [Chris Traini](#)
Cc: [Brian Lennie](#); [Kelsey Mills](#); [Rakesh Torul](#); [Allison Chong](#); [LondonLines](#)
Subject: London Lines Replacement Project: Environmental Report
Date: Thursday, July 23, 2020 9:56:10 AM

Good morning,

As you are aware, Enbridge Gas Inc. (Enbridge Gas) is seeking to construct a natural gas pipeline in order to replace a section of an existing natural gas pipeline in the Counties of Lambton and Middlesex . The Ontario Energy Board's *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7th Edition 2016* (Guidelines) recommend that a project proponent provide a copy of the environmental report (ER) for a project to the Ontario Pipeline Coordinating Committee for review and comment. In the link below please find a copy of the ER for the London Lines Replacement Project (the Project). Pursuant to the Guidelines please provide any comments on the ER for the Project by no later than Thursday September 3, 2020. You can access the ER at the link below and navigating to the Projects Tab and London Lines Replacement drop down.

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Email: londonlines@stantec.com

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Lauren

Lauren Whitwham

Analyst, Indigenous, Municipal Affairs & Stakeholder Relation

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TEL: 519-667-4100 x 5153545 | CELL: 519-852-3474 | lauren.whitwham@enbridge.com
109 Commissioners Road West, London, ON N6A4P1

Safety. Integrity. Respect.

From: [Lauren Whitwham](#)
To: [Donna Clermont](#); roads@dawneuphemia.on.ca
Cc: [Brian Lennie](#); [Kelsey Mills](#); [Allison Chong](#); [Rakesh Torul](#); [LondonLines](#)
Subject: London Lines Replacement Project: Environmental Report
Date: Thursday, July 23, 2020 9:51:05 AM

Good morning Donna and Paul,

As you are aware, Enbridge Gas Inc. (Enbridge Gas) is seeking to construct a natural gas pipeline in order to replace a section of an existing natural gas pipeline in the Counties of Lambton and Middlesex . The Ontario Energy Board's *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7th Edition 2016* (Guidelines) recommend that a project proponent provide a copy of the environmental report (ER) for a project to the Ontario Pipeline Coordinating Committee for review and comment. In the link below please find a copy of the ER for the London Lines Replacement Project (the Project). Pursuant to the Guidelines please provide any comments on the ER for the Project by no later than Thursday September 3, 2020. You can access the ER at the link below and navigating to the Projects Tab and London Lines Replacement drop down.

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Comments should be directed to:

Kelsey Mills
Advisor, Environment
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101 Honda Boulevard
Markham, Ontario
L6C 0M6
Cell: 416-454-9539
Email: londonlines@stantec.com

Many thanks and take care,
Lauren

Lauren Whitwham

Analyst, Indigenous, Municipal Affairs & Stakeholder Relation

—

ENBRIDGE GAS INC.

TEL: 519-667-4100 x 5153545 | CELL: 519-852-3474 | lauren.whitwham@enbridge.com
109 Commissioners Road West, London, ON N6A4P1

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From: [Lauren Whitwham](#)
To: [Michael Di Lullo](#); [Robert Cascaden](#); [Lee Smith](#)
Cc: [Brian Lennie](#); [Allison Chong](#); [Kelsey Mills](#); [Rakesh Torul](#); [LondonLines](#)
Subject: London Lines Replacement Project: Environmental Report
Date: Thursday, July 23, 2020 10:05:37 AM

Good morning,

As you are aware, Enbridge Gas Inc. (Enbridge Gas) is seeking to construct a natural gas pipeline in order to replace a section of an existing natural gas pipeline in the Counties of Lambton and Middlesex . The Ontario Energy Board's *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7th Edition 2016* (Guidelines) recommend that a project proponent provide a copy of the environmental report (ER) for a project to the Ontario Pipeline Coordinating Committee for review and comment. In the link below please find a copy of the ER for the London Lines Replacement Project (the Project). Pursuant to the Guidelines please provide any comments on the ER for the Project by no later than Thursday September 3, 2020. You can access the ER at the link below and navigating to the Projects Tab and London Lines Replacement drop down.

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Comments should be directed to:

Kelsey Mills
Advisor, Environment
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101 Honda Boulevard
Markham, Ontario
L6C 0M6
Cell: 416-454-9539
Email: londonlines@stantec.com

Many thanks and take care,
Lauren

Lauren Whitwham

Analyst, Indigenous, Municipal Affairs & Stakeholder Relation

—

ENBRIDGE GAS INC.

TEL: 519-667-4100 x 5153545 | CELL: 519-852-3474 | lauren.whitwham@enbridge.com
109 Commissioners Road West, London, ON N6A4P1

Safety. Integrity. Respect.

From: [Lauren Whitwham](#)
To: [Jill Bellchamber-glazier](#); gstorms@southwestmiddlesex.ca
Cc: [Brian Lennie](#); [Kelsey Mills](#); [Allison Chong](#); [Rakesh Torul](#); [LondonLines](#)
Subject: London Lines Replacement Project: Environmental Report
Date: Thursday, July 23, 2020 9:53:57 AM

Good morning,

As you are aware, Enbridge Gas Inc. (Enbridge Gas) is seeking to construct a natural gas pipeline in order to replace a section of an existing natural gas pipeline in the Counties of Lambton and Middlesex . The Ontario Energy Board's *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7th Edition 2016* (Guidelines) recommend that a project proponent provide a copy of the environmental report (ER) for a project to the Ontario Pipeline Coordinating Committee for review and comment. In the link below please find a copy of the ER for the London Lines Replacement Project (the Project). Pursuant to the Guidelines please provide any comments on the ER for the Project by no later than Thursday September 3, 2020. You can access the ER at the link below and navigating to the Projects Tab and London Lines Replacement drop down.

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Comments should be directed to:

Kelsey Mills
Advisor, Environment
Enbridge Gas Inc.
101 Honda Boulevard
Markham, Ontario
L6C 0M6
Cell: 416-454-9539
Email: londonlines@stantec.com

Many thanks and take care,
Lauren

Lauren Whitwham

Analyst, Indigenous, Municipal Affairs & Stakeholder Relation

—

ENBRIDGE GAS INC.

TEL: 519-667-4100 x 5153545 | CELL: 519-852-3474 | lauren.whitwham@enbridge.com
109 Commissioners Road West, London, ON N6A4P1

Safety. Integrity. Respect.

From: [Lauren Whitwham](#)
To: [Fred Tranquilli](#); gelliott@strathroy-caradoc.ca; [Demetri Makrakos](#); [Jake Straus](#)
Cc: [Brian Lennie](#); [Kelsey Mills](#); [Allison Chong](#); [Rakesh Torul](#); [LondonLines](#)
Subject: London Lines Replacement Project: Environmental Report
Date: Thursday, July 23, 2020 10:06:18 AM

Good morning,

As you are aware, Enbridge Gas Inc. (Enbridge Gas) is seeking to construct a natural gas pipeline in order to replace a section of an existing natural gas pipeline in the Counties of Lambton and Middlesex . The Ontario Energy Board's *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7th Edition 2016* (Guidelines) recommend that a project proponent provide a copy of the environmental report (ER) for a project to the Ontario Pipeline Coordinating Committee for review and comment. In the link below please find a copy of the ER for the London Lines Replacement Project (the Project). Pursuant to the Guidelines please provide any comments on the ER for the Project by no later than Thursday September 3, 2020. You can access the ER at the link below and navigating to the Projects Tab and London Lines Replacement drop down.

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Comments should be directed to:

Kelsey Mills
Advisor, Environment
Enbridge Gas Inc.
101 Honda Boulevard
Markham, Ontario
L6C 0M6
Cell: 416-454-9539
Email: londonlines@stantec.com

Many thanks and take care,
Lauren

Lauren Whitwham

Analyst, Indigenous, Municipal Affairs & Stakeholder Relation

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109 Commissioners Road West, London, ON N6A4P1

Safety. Integrity. Respect.

From: [Chris Traini](#)
To: [LondonLines](#)
Cc: [Brian Lennie](#); [Kelsey Mills](#); [Rakesh Torul](#); [Allison Chong](#); [LondonLines](#); [Robert Cascaden](#); [Greg Storms](#); "George Elliott"; [Bill Rayburn](#); [Lauren Whitwham](#)
Subject: RE: London Lines Replacement Project: Environmental Report
Date: Thursday, July 23, 2020 2:34:45 PM
Attachments: [Meeting Minutes - Enbridge - London Lines Replacement Project - Middlese....docx](#)

Hi Kelsey,

Reviewing the project website I note that Enbridge is looking for apply for a leave to construct in August 2020. Looking over Environmental Report and specifically Appendix H – Alignment Sheets for the preferred route it does not appear that the comments provided by Middlesex County, Southwest Middlesex, Middlesex Centre or Strathroy-Caradoc were taken into account and the preferred route has been set without addressing our concerns (I've attached a copy of the meeting minutes from our June 17, 2020 meeting). For example a serious concern was raised about high pressure gas being installed along the edge of the road along some of the narrow right of ways and that has not been addressed. There were a number of other comments including use of existing pipeline easements, conflict with municipal drains, removal of existing pipelines, and review of alternative routing that still hasn't happened either as far as I can tell. Unless I'm missing something the only commentary on route refinement mentioned in the report were 'road crossing methods and depth of cover' and some considerations for the capital improvements identified in the Glendon Drive Environmental Assessment.

It was my understanding that after further study and survey of the route another stakeholder meeting was going to be held prior to the filing of the environmental report. It is in all our best interests not to have to appear at the Ontario Energy Board to object to the leave to construct application but if the issues raised by the County and our local municipalities are not given serious consideration we cannot approve the route as identified in the report.

Please let me know how these issues will be resolved. If these have been addressed somewhere in the environmental report that I may have missed please let me know that as well.

Sincerely,

Chris Traini, P.Eng.
County Engineer
County of Middlesex
ctraini@middlesex.ca
(519) 434-7321 ext. 2264

From: Lauren Whitwham [mailto:Lauren.Whitwham@enbridge.com]

Sent: Thursday, July 23, 2020 9:56 AM

To: Bill Rayburn <cao@mdlsx.ca>; Chris Traini <ctraini@middlesex.ca>

Cc: Brian Lennie <Brian.Lennie@enbridge.com>; Kelsey Mills <Kelsey.Mills@enbridge.com>; Rakesh Torul <Rakesh.Torul@enbridge.com>; Allison Chong <allison.chong@enbridge.com>; londonlines@stantec.com

Subject: London Lines Replacement Project: Environmental Report

CAUTION: This email originated from outside of the Middlesex County email system. Please use caution when clicking links or opening attachments unless you recognize the sender and know the content is safe.

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Cell: 416-454-9539
Email: londonlines@stantec.com

Many thanks and take care,
Lauren

Lauren Whitwham

Analyst, Indigenous, Municipal Affairs & Stakeholder Relation

—

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TEL: 519-667-4100 x 5153545 | CELL: 519-852-3474 | lauren.whitwham@enbridge.com

109 Commissioners Road West, London, ON N6A4P1

Safety. Integrity. Respect.

GENERAL TECHNIQUES AND METHODS OF CONSTRUCTION

1. Enbridge Gas Inc. (“Enbridge Gas”) will ensure adequate inspection staff is onsite to enforce Enbridge Gas’s construction specifications and *Ontario Regulation 210/01 under the Technical Standards and Safety Act 2000, Oil and Gas Pipeline Systems*.
2. Pipeline construction can be divided into several crews that create a mobile assembly line. Each crew can perform a different function, with a finished product left behind when the last crew has completed its work.
3. Enbridge Gas’ contract specifications and the use of Book 7 TCP, 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 Enbridge Gas’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. Enbridge Gas 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 (“RoW”) 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.

8. The RoW is prepared for the construction of the pipeline. The first activity is typically the survey and staking, which delineate the boundaries of the RoW and temporary work areas. When required, bushes, trees and crops are removed along the RoW. Clearing is typically completed during the winter to avoid avian nesting or bat roost concerns. If clearing cannot be completed to avoid these concerns then the appropriate specialists will be employed to provide guidance on how to clear, to mitigate these concerns and work within any relevant regulations or permit conditions.

9. The RoW is graded to allow for access by construction equipment. This will involve constructing approaches through road and railway ditches to allow access of equipment and personnel onto the RoW. Temporary roads will be constructed through wet areas to minimize impacts to wetlands and access to the RoW. On agricultural property the grading crew will strip topsoil to be stored and returned during clean-up. In hilly terrain, the grade is leveled to provide a stable working surface.

Removing Existing Pipe

10. Once the new pipeline is put into operation and all customers are transferred over to it, the existing pipelines will be isolated and deactivated. The 53 aerial

crossings will be cut out and removed, the pipe ends that are left in the ground will be capped. For the pipelines in easement, easement agreements will be followed and landowner input will be sought with regards to pipe removal from their property.

Abandoning Existing Pipe

11. The existing pipe within road allowance and in environmentally sensitive areas may be abandoned in place as per Enbridge Gas's abandonment specifications. The abandonment of the pipelines currently in road allowance will follow the respective municipal franchise agreement. The abandoned sections are cut into pieces and capped at lengths specified in the abandonment specification. Abandoned sections under roads, drains and streams will be capped and filled with grout.

Stringing

12. The joints of pipe are laid end-to-end on supports that keep the pipe off of the ground to prevent damage to the pipe coating.

Welding

13. The pipe is welded into manageable lengths. The welds are non-destructively tested by ultrasonically and/or radiographically examining them, then they are coated

Burying

14. 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 prior to installing the pipeline. Prior to trenching, all such utilities will be hand-located or hydro vacuumed to verify their location to ensure

required clearances are maintained when installing the pipeline.

Trench Method

15. 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 Enbridge Gas. If a repair is necessary in the future, Enbridge Gas 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 test prior to the pipe being lowered into the trench. All defects in the coating are repaired before the pipe is lowered in. If the native soil from the trench is suitable for backfill, it is backfilled. If the soil is not suitable for backfill, the trench is backfilled with suitable material such as sand. After the trench is backfilled, drainage tile is repaired.

16. Concurrent to trenching, the contractor will have separate crews install the pipe at road, railway and large watercourse crossings. The installation of the pipeline can be accomplished by using trenchless methods or by trenching as appropriate based upon permits and geotechnical conditions.

Trenchless Method

17. Trenchless methods are alternate methods used to install pipelines under railways, roads, sidewalks, trees and environmentally sensitive areas. The trenchless method proposed for the NPS 4 and NPS 6 pipeline is directional drilling. This method involves setting up a receiving hole and an exit hole, drilling a pilot hole on the design path, reaming the pilot hole larger by passing

a cutting tool and pulling the pipe back through the bored hole.

Tie-Ins

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

Cleaning and Testing

19. To complete the construction, once the pipeline has been joined through welding, lowered and backfilled, it is cleaned and hydrostatically pressure tested in accordance with Enbridge Gas' specifications.

20. The hydrostatic test is used to confirm both the quality of the construction installation but also the integrity of the steel used in making the pipe. Passing the hydrostatic test means the pipeline is ready to be put into service.

21. Once the hydrostatic test is complete, the pipeline will be de-watered. The de-watering process cleans and removes most of the water left in the line after hydrotesting. This will be done in accordance with Enbridge Gas' specifications.

Restoration

22. 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.

23. Restoration is the last part of the linear pipeline activity in the mobile assembly line process mentioned at the start. Restoration returns the land as

close as possible to the original state. On farmland, it prepares the subsoil on the stripped portion of the RoW by removing compaction from the soil and picking stones from the surface. The trench line is crowned with enough subsoil to allow for settlement. Excess subsoil is removed to an acceptable location on the landowner's property or hauled to a disposal site. Topsoil is then replaced. Restoration will also repair fences, pick debris, replace sod in landscaped areas and seed sensitive areas such as grass areas, ditch banks and stream crossings. Tree planting will also occur as part of restoration.

24. When restoration is complete, the landowner with impacted areas caused by construction is consulted on the restoration and confirms they are satisfied with restoration by signing an acknowledgement that is kept on file. This acknowledgement does not release Enbridge Gas from its obligation for future tile repairs, compensation for damaged and/or further restoration as required due to erosion or subsidence directly related to the pipeline construction.

DESIGN AND PIPE SPECIFICATIONS

1. The proposed pipeline will be designed and constructed in accordance with the the *Ontario Regulations 210/01* under the *Technical Standards and Safety Act 2000, Oil and Gas Pipeline Systems*. This is the regulation governing the installation of pipelines in the Province of Ontario.
2. The proposed pipeline will meet or exceed the design and construction requirements of the applicable current adopted edition of CSA Z662, in accordance with Enbridge Gas's Construction and Maintenance Manual
3. The proposed pipeline will be designed as a distribution pipeline and operated at less than 30% SMYS.
4. The proposed pipeline will be pressure tested in compliance with Clause 8 of the applicable current adopted edition of CSA Z662 and Ontario Regulation requirements.
5. The minimum installation depth of cover in road allowance is 0.75 metres and in agricultural land is 1.2 metres. These depth of cover requirements are in accordance with the Enbridge Gas's Construction and Maintenance Manual. Additional depth of cover, greater than the minimum, will be provided to accommodate existing or planned facilities and where ground conditions allow greater depth. All installation depths are in accordance with the minimum installation depth of cover of 0.6 metres stated in Section 12.4.7. Cover in Table 12.2 of the applicable current adopted edition of CSA Z662.
6. The design specifications and pipeline specifications for the Project are provided in Table 1 and 2 respectively.

Table 1: Design specifications

Design Specifications : NPS 4 and NPS 6	
Class Location (existing)	Distribution
Design Class Location (proposed)	NA
Design Factor	0.3
Location Factor (General)	NA
Location Factor (Roads/Railways)	NA
Maximum Design Pressure	3447 kPa
Maximum Operating Pressure	3447 kPa
Test Medium	Water
Test Pressure	4830 kPa minimum
Valves/Fittings	PN 50 minimums
Minimum Depth of Cover	Per CSA Z662-15 Table 12.2

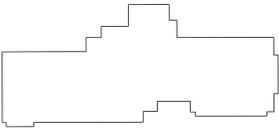
Table 2: Pipe Specifications

Pipe Specifications: NPS 4 and NPS 6		
Size	NPS 4	NPS 6
Outside Diameter	114.3 mm	168.3 mm
Wall Thickness	4.8 mm	4.8 mm
Grade	290 MPa (min)	290 MPa (min)
Description	CSA Z245.1-18, Steel Pipe	CSA Z245.1-18, Steel Pipe
Category	CAT I	CAT I
Coating	Fusion Bonded Epoxy, ARO, Yellow Jacket	Fusion Bonded Epoxy, ARO, Yellow Jacket
% SMYS based on Gr 290 minimum	14.2%	20.9%

LAND REQUIREMENTS

1. The majority of the Proposed Facilities will be located within existing road allowances in the County of Middlesex, the County of Lambton, the Township of Dawn-Euphemia, the Municipality of Southwest Middlesex, the Municipality of Strathroy-Caradoc, and the Municipality of Middlesex Centre.
2. Enbridge Gas will require approximately 0.584 acres of permanent easement. Enbridge Gas will be engaging in negotiations for all necessary permanent Land Rights.
3. Enbridge Gas will require 114.9 acres of temporary land rights for construction and topsoil storage. Options for temporary land rights will be obtained from the directly affected landowners. Enbridge Gas will make efforts to obtain these rights and if unable to obtain these rights, Enbridge Gas can still construct the pipeline within the road allowance.
4. Enbridge Gas will require five fee simple land right purchases. These lands will be required for the proposed new sites, and expansion of existing stations.
5. A map showing the location of the proposed pipeline as well as the land rights required is provided at Exhibit E, Tab 2, Schedule 1.
6. A list of the properties and the dimensions of the permanent, temporary easement land rights required, and fee simple purchases for the Project is provided at Exhibit E, Tab 2, Schedule 2.
7. A copy of Enbridge Gas's Form of Temporary Land Use Agreement and Transfer of

Easement Agreement for the land rights required were previously approved by the Board and can be found at Exhibit E, Tab 2, Schedules 3 and 4 respectively.



LOT 26
CONCESSION 2
DAWN

PIN 43384-0106
OWNER: UNION GAS LIMITED

PIN 43384-0106
OWNER: UNION GAS LIMITED

BENTPATH LINE

PROPOSED NPS 6 PIPELINE

BENTPATH LINE

EXISTING NPS 8 LONDON SOUTH
TO BE ABANDONED
EXISTING NPS 8 LONDON DOMINION
TO BE ABANDONED

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN DN21319

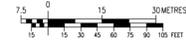
PIN 43385-0150

TLU - 30.0m x 596.8m
4.43 acres

LOT 25
CONCESSION 2
DAWN

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

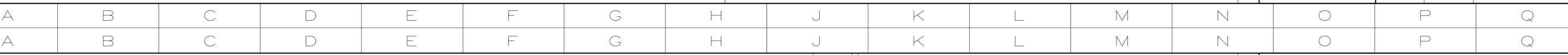
NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:
SIZE STRIP:	SHEET 1 OF 73	DRAWING No.



LOT 26
CONCESSION 2
DAWN

PIN 43384-0107

CUTHBERT ROAD

SUBJECT TO UNION GAS EASEMENT AS IN

PIN 43384-0127

LOT 26
CONCESSION 3
DAWN

BENTPATH LINE

EXISTING NPS 8 LONDON DOMINION
TO BE ABANDONED
EXISTING NPS 8 LONDON SOUTH
TO BE ABANDONED

BENTPATH LINE

BENTPATH LINE

PROPOSED NPS 6 PIPELINE

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN DN21319

SUBJECT TO UNION GAS EASEMENT AS IN DN21319

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN DN21319

TLU - 30.0m x 596.8m
4.43 acres

PIN 43385-0150

TLU - 10.0m x 95.3m
0.23 acres

PIN 43385-0151

TLU - 30.0m x 300.6m (IRR.)
2.30 acres

LOT 25
CONCESSION 3
DAWN

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

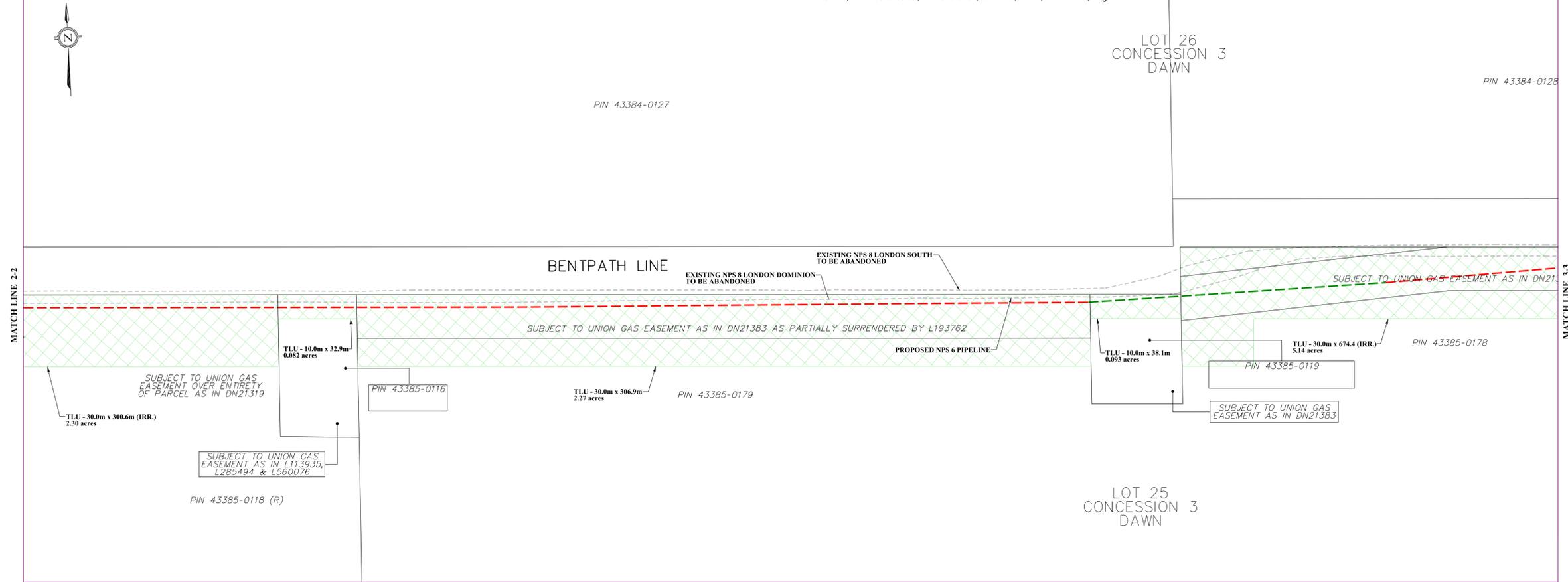
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CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:
SIZE STRIP:	SHEET 1 OF 73	DRAWING No.





MATCH LINE 2-2

MATCH LINE 3-3



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REVISIONS	REMARKS
1	2020-08-24	SD	AC		DEB FILING

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:
SIZE STRIP	SHEET 2 OF 73	DRAWING No.:

A

B

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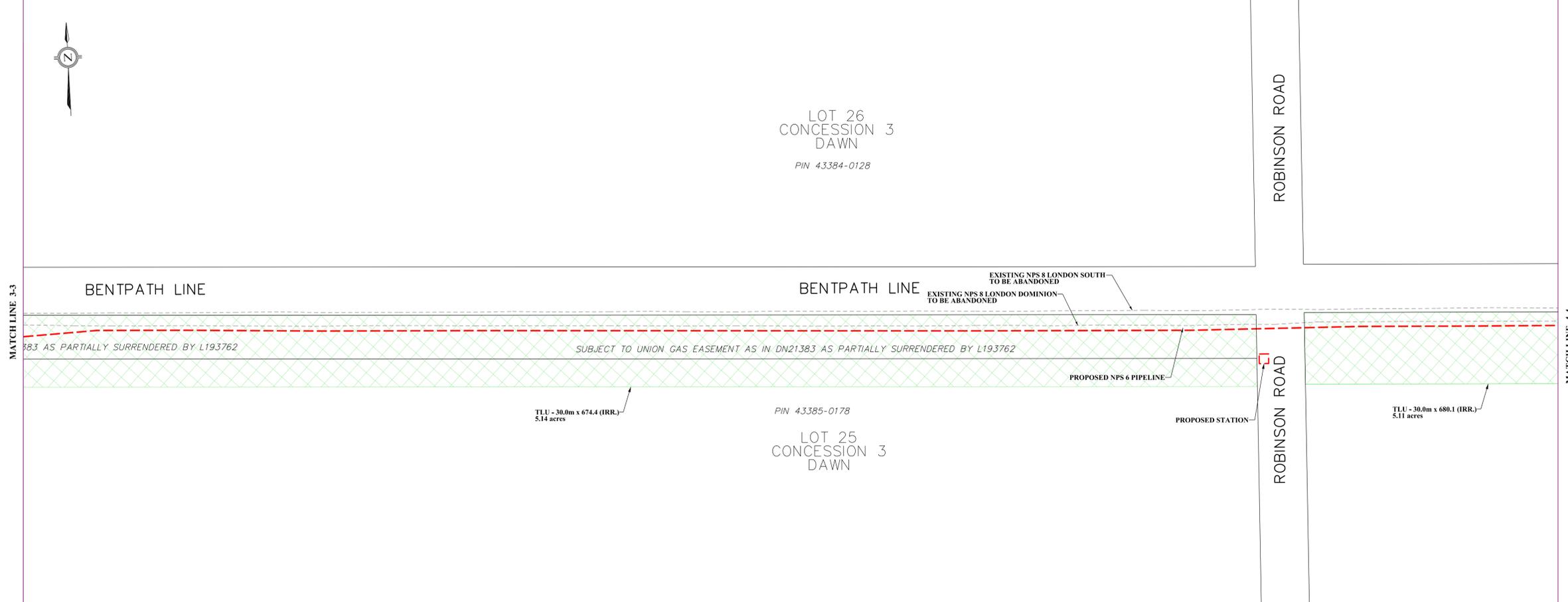
P

Q



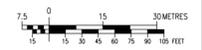
MATCH LINE 3-3

MATCH LINE 4-4



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REVISIONS	REMARKS
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ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

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SIZE STRIP	SHEET 2 OF 73	DRAWING No.:

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LOT 26
CONCESSION 4
DAWN

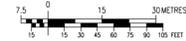
PIN 43383-0068

PIN 43383-0068

PIN 43383-0069

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	AC	REVISIONS	REMARKS
1	2020-08-24	SD				DEB FILING

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:
SIZE STRIP	SHEET 3 OF XX	DRAWING No.:

MATCHLINE 4-4

MATCHLINE 5-5

BENTPATH LINE

BENTPATH LINE

EXISTING NPS 8 LONDON SOUTH TO BE ABANDONED
EXISTING NPS 8 LONDON DOMINION TO BE ABANDONED

PROPOSED NPS 6 PIPELINE

PROPOSED NPS 6 PIPELINE

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN DN21394

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN DN21394

PIN 43382-0053

TLU - 30.0m x 680.1 (IRR.)
5.11 acres

PIN 43382-0053

LOT 25
CONCESSION 4
DAWN

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



LOT 26
CONCESSION 4
DAWN

PIN 43383-0070

PIN 43383-0071

PIN 43383-0072

MARTHAVILLE ROAD

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	AC	REVISIONS	REMARKS
1	2020-08-24	SD				DEB FILING

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

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CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:
SIZE STRIP	SHEET 3 OF 73	DRAWING No.:

MATCHLINE 5-5

MATCHLINE 6-6

BENTPATH LINE

BENTPATH LINE

EXISTING NPS 8 LONDON SOUTH TO BE ABANDONED
EXISTING NPS 8 LONDON DOMINION TO BE ABANDONED

PROPOSED NPS 6 PIPELINE

PROPOSED HDD NPS 6 PIPELINE

TLU - 10.0m x 120.3m
0.30 acres

TLU - 10.0m x 30.5m
0.074 acres

PROPOSED STATION

EASEMENT TITLE SEARCH IN PROGRESS

PIN 43382-0070

PIN 43382-0072

EASEMENT TITLE SEARCH IN PROGRESS

PIN 43382-0071

LOT 25
CONCESSION 4
DAWN

LOT 25
CONCESSION 4
DAWN

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

MATCH LINE 6-6

MATCH LINE 7-7



LOT 26
CONCESSION 5
DAWN

PIN 43383-0116

PIN 43383-0116

BENTPATH LINE

BENTPATH LINE

EXISTING NPS 8 LONDON SOUTH
TO BE ABANDONED
EXISTING NPS 8 LONDON DOMINION
TO BE ABANDONED

PROPOSED NPS 6 PIPELINE

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN DN21375

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN DN16446

TLU - 10.0m x 40.0m
0.099 acres

PIN 43382-0073

PIN 43382-0074

TLU - 30.0m x 297.1m
2.20 acres

TLU - 30.0m x 1002.3m
7.56 acres

SUBJECT TO UNION GAS
EASEMENT AS IN DN21375

LOT 25
CONCESSION 5
DAWN

PIN 43382-0075

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REMARKS

ENGINEER:

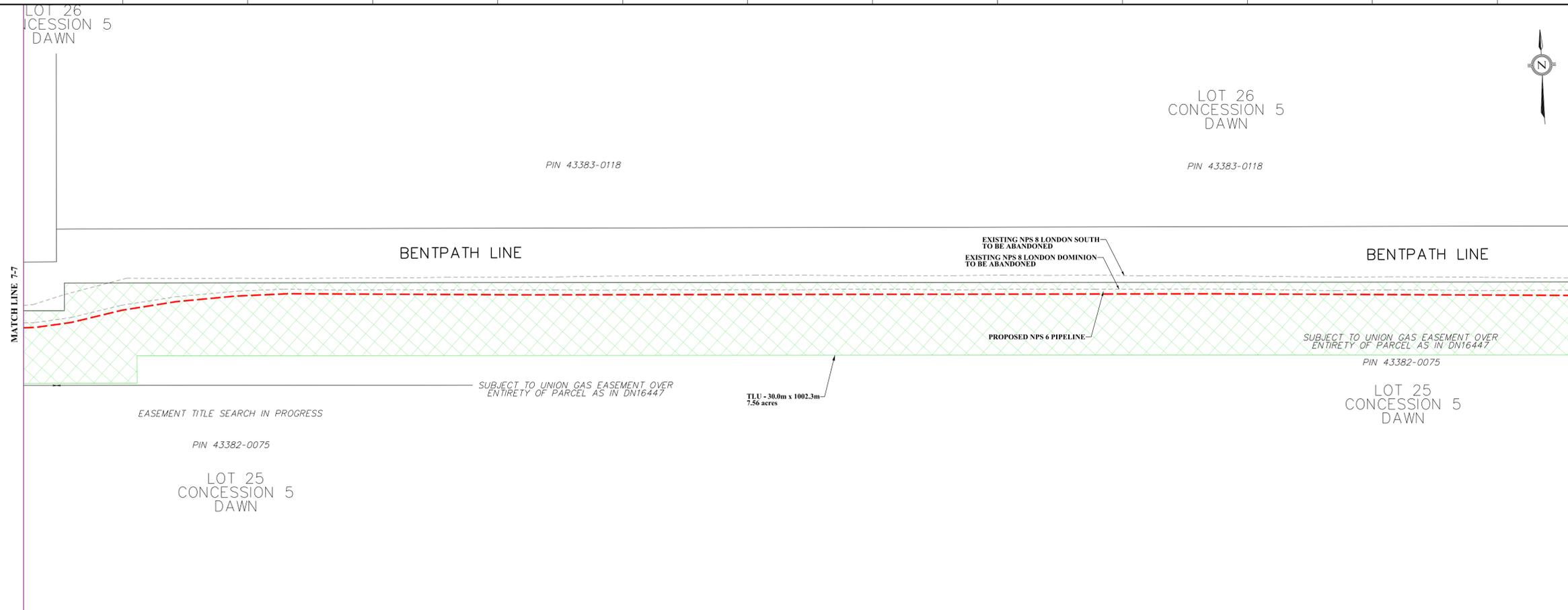
REVISIONS

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLT SPEC: 1:1000
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APPROVED BY:	DATE:	FILE REVISION DATE:
SIZE STRIP	SHEET 4 OF 73	DRAWING No.

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



LOT 26
CONCESSION 5
DAWN

PIN 43383-0118

PIN 43383-0118

BENTPATH LINE

BENTPATH LINE

EXISTING NPS 8 LONDON SOUTH
TO BE ABANDONED
EXISTING NPS 8 LONDON DOMINION
TO BE ABANDONED

PROPOSED NPS 6 PIPELINE

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN DN16447

PIN 43382-0075

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN DN16447

TLU - 30.0m x 1002.3m
7.56 acres

EASEMENT TITLE SEARCH IN PROGRESS

PIN 43382-0075

LOT 25
CONCESSION 5
DAWN

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REMARKS

ENGINEER:

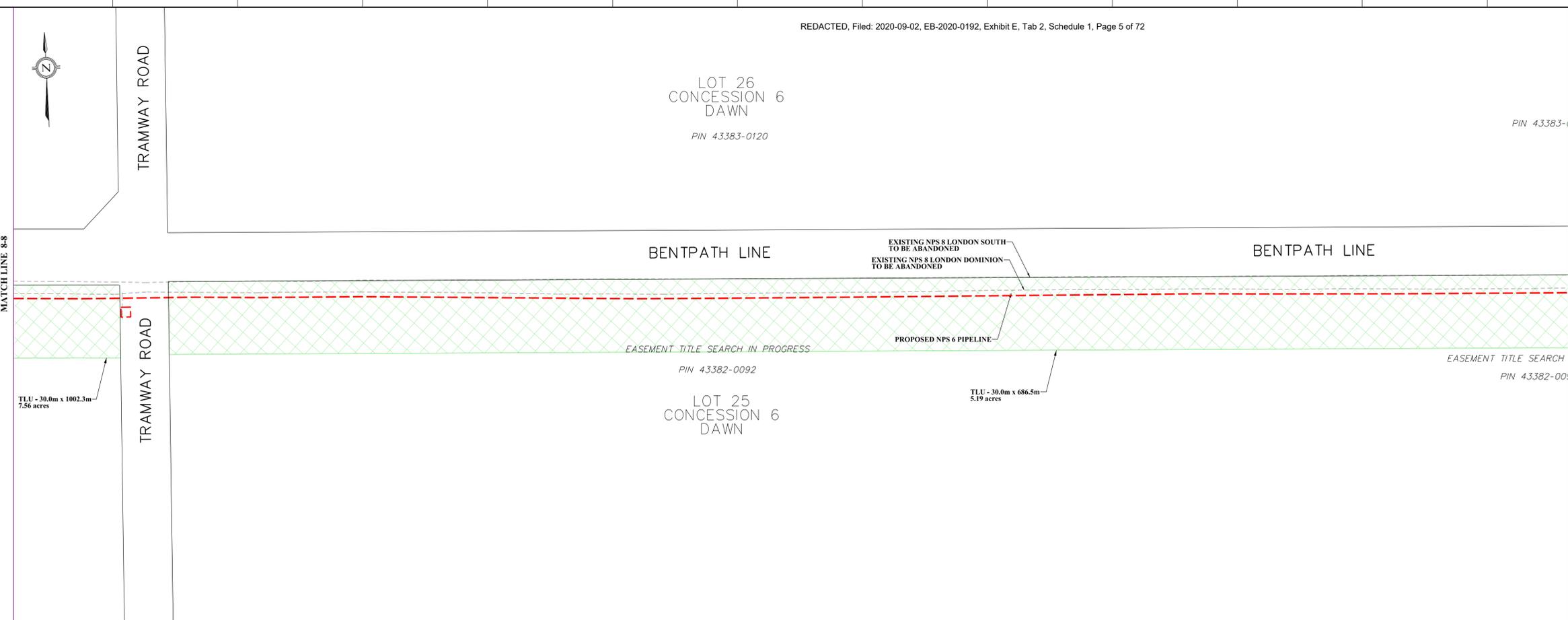
REVISIONS

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLT SPEC: 1:1000
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A B C D E F G H J K L M N O P Q

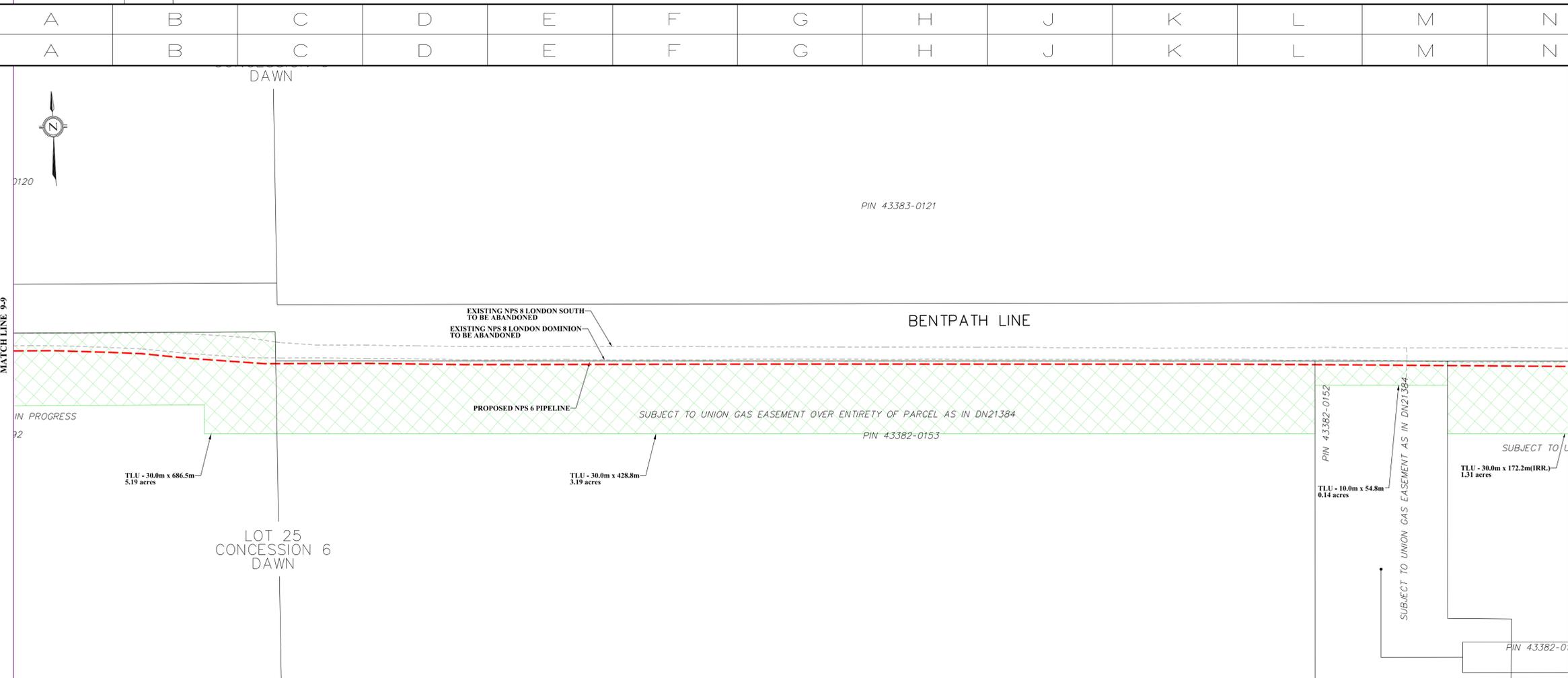


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS				REVISIONS	
DESIGNED TO CSA 2662-15	NO.	DATE	BY	APPD	REMARKS
DESIGN PRESSURE - 3447 kPa					
ENGINEER:					
ENBRIDGE <i>Life Takes Energy</i>					
LONDON LINES REPLACEMENT PROJECT TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021					
DRAWN BY	DATE	DATE	DATE	DATE	DATE
SD	2020-08-24	2020-08-24	2020-08-24	2020-08-24	2020-08-24
CHECKED BY	AC	AC	AC	AC	AC
APPROVED BY					
SIZE STRIP	SHEET 5 OF 73	DRAWING No.			

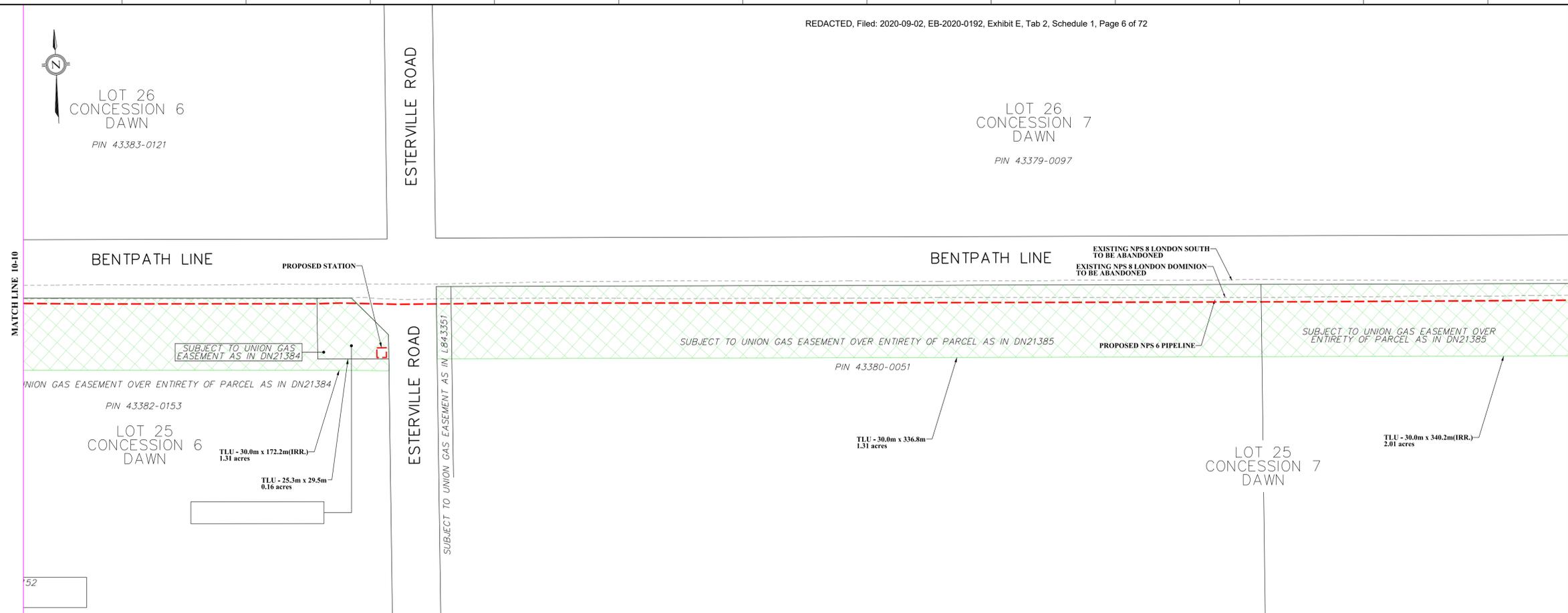


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -

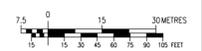


DESIGN PARAMETERS				REVISIONS	
DESIGNED TO CSA 2662-15	NO.	DATE	BY	APPD	REMARKS
DESIGN PRESSURE - 3447 kPa					
ENGINEER:					
ENBRIDGE <i>Life Takes Energy</i>					
LONDON LINES REPLACEMENT PROJECT TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021					
DRAWN BY	DATE	DATE	DATE	DATE	DATE
SD	2020-08-24	2020-08-24	2020-08-24	2020-08-24	2020-08-24
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SIZE STRIP	SHEET 5 OF 73	DRAWING No.			

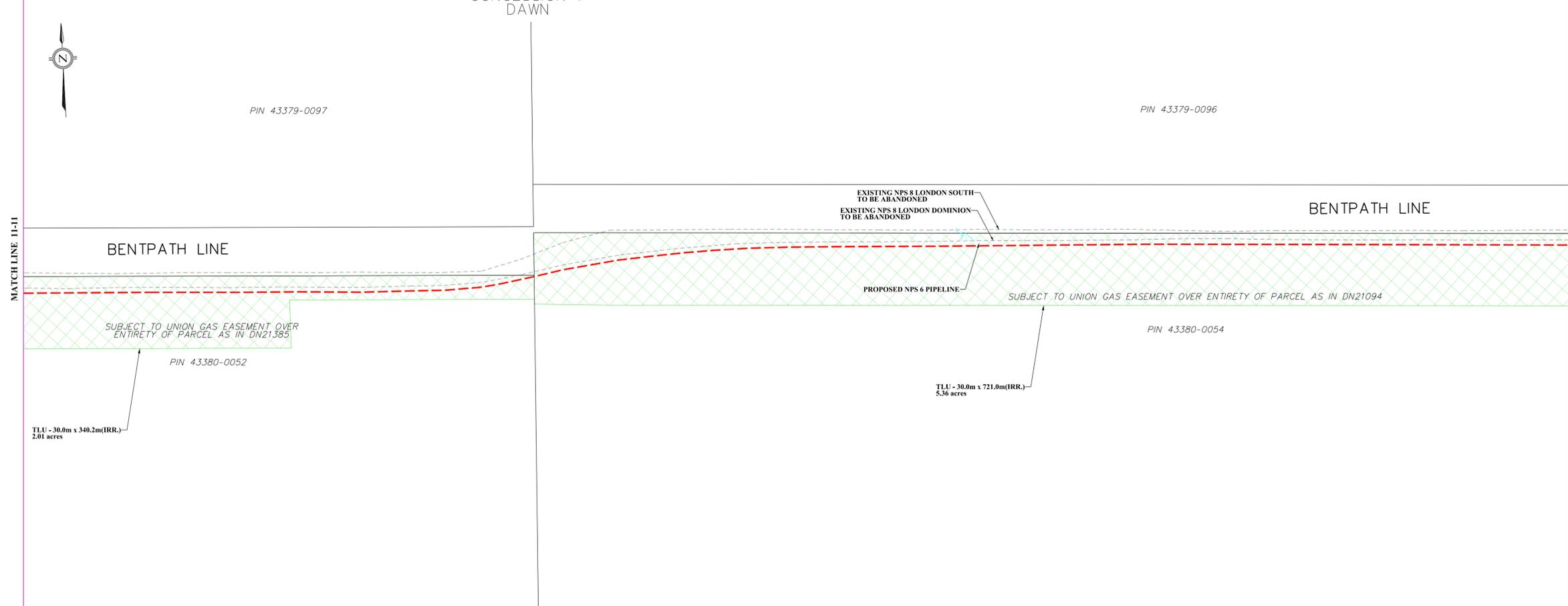


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		#	2020-08-24	SD	AC	DEB FILING
- DESIGNED TO CSA 2662-15		NO.	DATE	BY	APPD	REMARKS
- DESIGN PRESSURE - 3447 kPa		REVISIONS				
ENGINEER:						
LONDON LINES REPLACEMENT PROJECT						
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021						
DRAWN BY	SD	DATE	2020-08-24	PLT SPEC:	1:1000	
CHECKED BY	AC	DATE		CAD CODE:		
APPROVED BY		DATE		FILE REVISION DATE		
SIZE STRIP	SHEET 6 OF 73	DRAWING No.				



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		#	2020-08-24	SD	AC	DEB FILING
- DESIGNED TO CSA 2662-15		NO.	DATE	BY	APPD	REMARKS
- DESIGN PRESSURE - 3447 kPa		REVISIONS				
ENGINEER:						
LONDON LINES REPLACEMENT PROJECT						
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021						
DRAWN BY	SD	DATE	2020-08-24	PLT SPEC:	1:1000	
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SIZE STRIP	SHEET 6 OF 73	DRAWING No.				



LOT 26
CONCESSION 7
DAWN

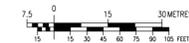
PIN 43379-0096

LOT 26
CONCESSION 8
DAWN

PIN 43379-0132

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REMARKS

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

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SIZE STRIP	SHEET 7 OF 73	DRAWING No.

MATCH LINE 12-12

MATCH LINE 13-13

5

5

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

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

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN DN21094
PIN 43380-0054

SUBJECT TO UNION GAS EASEMENT AS IN L203061

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN DN21380
PIN 43380-0073

TLU - 30.0m x 721.0m (IRR) - 5.36 acres

TLU - 30.0m x 486.0m - 3.66 acres

PROPOSED STATION NEW REG. RUN S173X-X

EXISTING STATION 10H-204

PIN 43380-0070

LOT 25
CONCESSION 8
DAWN

MATCH LINE 13-13

MATCH LINE 14-14

5

5

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

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

LOT 26
CONCESSION 8
DAWN

PIN 43379-0132

PIN 43379-0133

BENTPATH LINE

EXISTING NPS 8 LONDON SOUTH TO BE ABANDONED
EXISTING NPS 8 LONDON DOMINION TO BE ABANDONED

PROPOSED NPS 6 PIPELINE

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN DN21380
PIN 43380-0071

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN DN21380
PIN 43380-0073

TLU - 30.0m x 486.0m - 3.66 acres

TLU - 30.0m x 683.0m - 5.06 acres

LOT 25
CONCESSION 8
DAWN

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

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ENBRIDGE
Life Takes Energy

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TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

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LOT 26
CONCESSION 8
DAWN
PIN 43379-0133

PANTRY SCHOOL ROAD

PANTRY SCHOOL ROAD

BENTPATH LINE

BENTPATH LINE

EXISTING NPS 8 LONDON SOUTH
TO BE ABANDONED

EXISTING NPS 8 LONDON DOMINION
TO BE ABANDONED

PROPOSED NPS 6 PIPELINE

IN L121096

SUBJECT TO UNION GAS EASEMENT OVER
ENTIRETY OF PARCEL AS IN L121096

PIN 43380-0073

LOT 25
CONCESSION 8
DAWN

EXISTING STATIONS TIE-INS
101-201
101-271

FEF
30.0m x 30.0m
0.15 acres

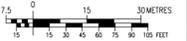
TLU - 30.0m x 682.3m (IRR.)
4.42 acres

TLU - 30.0m x 683.0m
5.06 acres

SUBJECT
ENTIRETY

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

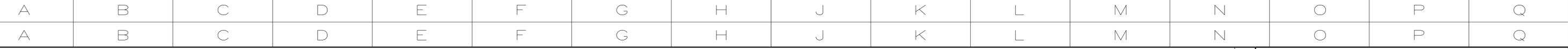
#	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

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LOT 26
CONCESSION 9
DAWN
PIN 43379-0146

CON
PIN

BENTPATH LINE

BENTPATH LINE

EXISTING NPS 8 LONDON SOUTH
TO BE ABANDONED

EXISTING NPS 8 LONDON DOMINION
TO BE ABANDONED

PROPOSED NPS 6 PIPELINE

SUBJECT TO UNION GAS EASEMENT OVER
ENTIRETY OF PARCEL AS IN DN21086

PIN 43380-0089

TLU - 30.0m x 685.1m (IRR.)
5.21 acres

TLU - 30.0m x 682.3m (IRR.)
4.42 acres

TO UNION GAS EASEMENT OVER
Y OF PARCEL AS IN DN21086

PIN 43380-0089

LOT 25
CONCESSION 9
DAWN

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

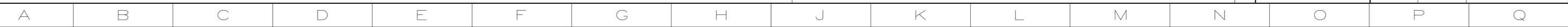
#	DATE	BY	APPD	REVISIONS	REMARKS

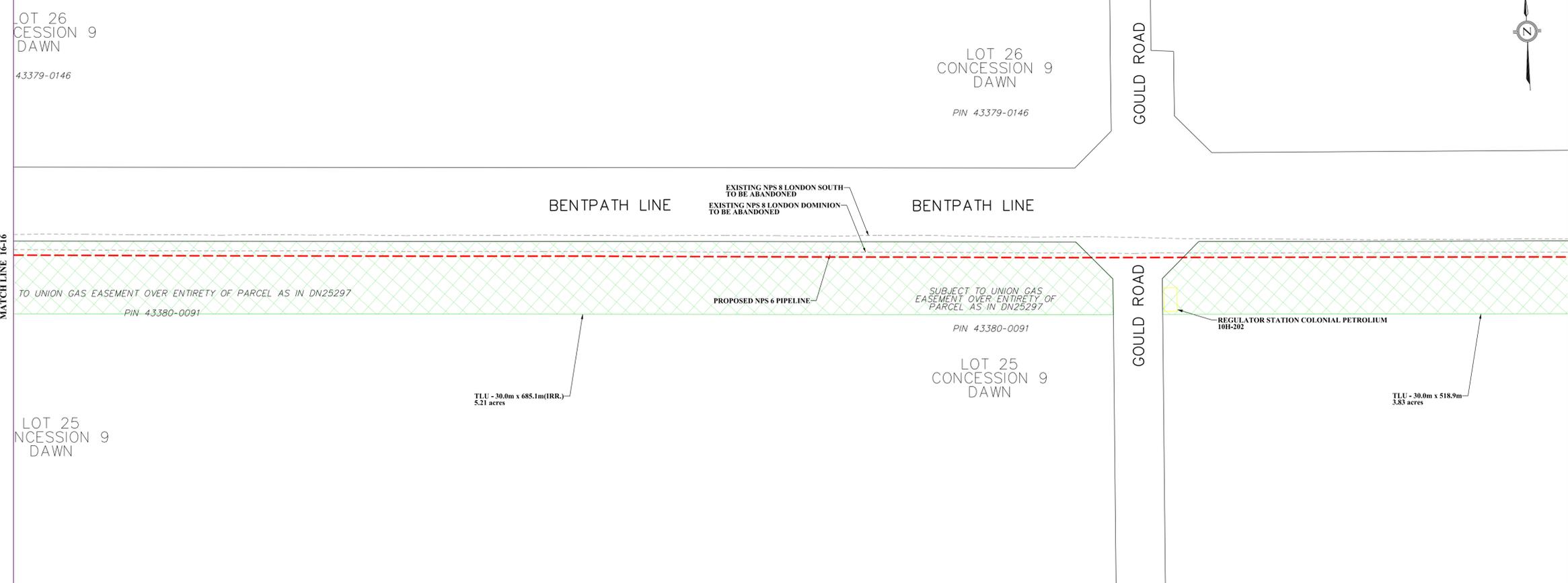
ENGINEER:



LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY SD	DATE 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY AC	DATE	CAD CODE:
APPROVED BY	DATE	FILE REVISION DATE
SIZE STRIP	SHEET 8 OF 73	DRAWING No.



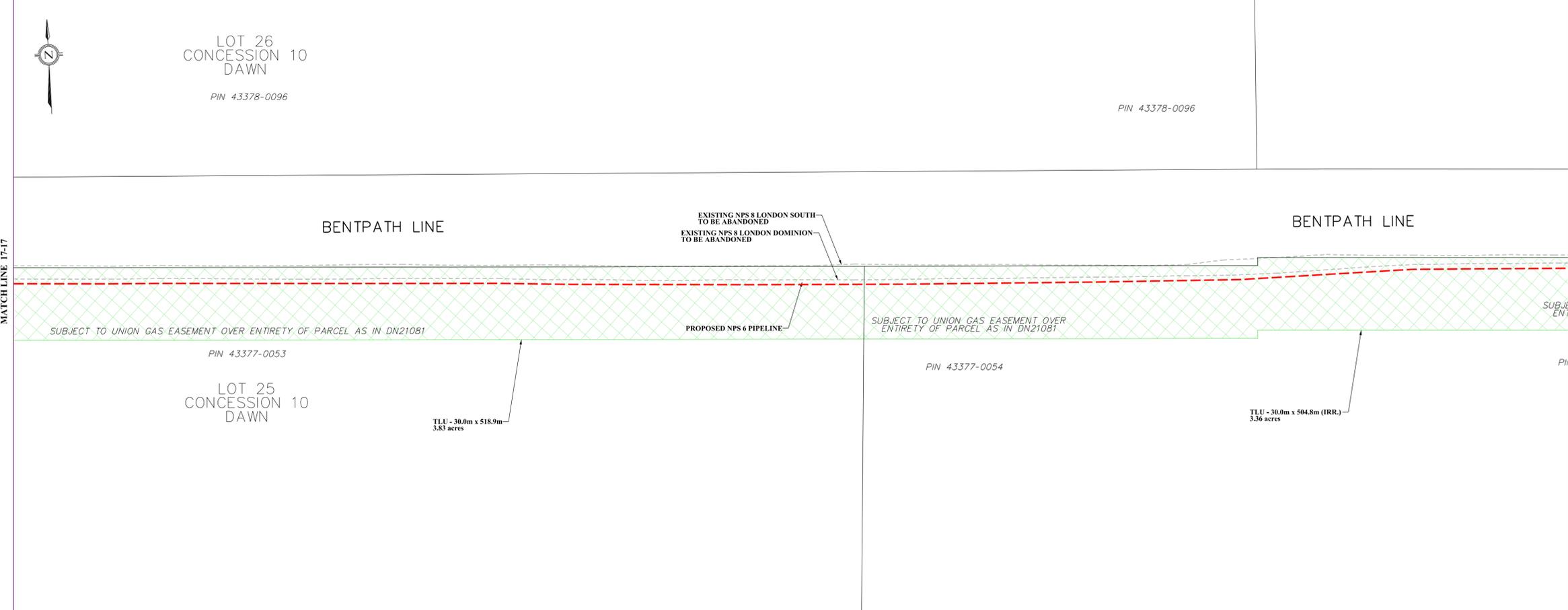
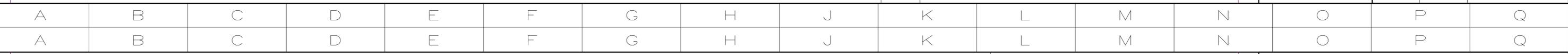


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -

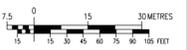


DESIGN PARAMETERS				REVISIONS	
DESIGNED TO CSA 2662-15				REMARKS	
DESIGN PRESSURE - 3447 kPa				REMARKS	
ENGINEER:					
ENBRIDGE <i>Life Takes Energy</i>					
LONDON LINES REPLACEMENT PROJECT TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021					
DRAWN BY	DATE	DATE	DATE	DATE	DATE
SD	2020-08-24	2020-08-24	2020-08-24	2020-08-24	2020-08-24
CHECKED BY	DATE	DATE	DATE	DATE	DATE
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SIZE STRIP	SHEET 9 OF 73	DRAWING No.			

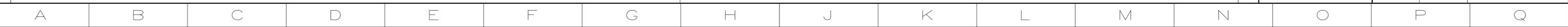


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS				REVISIONS	
DESIGNED TO CSA 2662-15				REMARKS	
DESIGN PRESSURE - 3447 kPa				REMARKS	
ENGINEER:					
ENBRIDGE <i>Life Takes Energy</i>					
LONDON LINES REPLACEMENT PROJECT TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021					
DRAWN BY	DATE	DATE	DATE	DATE	DATE
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CHECKED BY	DATE	DATE	DATE	DATE	DATE
AC					
APPROVED BY	DATE	DATE	DATE	DATE	DATE
SIZE STRIP	SHEET 9 OF 73	DRAWING No.			



LOT 26
CONCESSION 11
DAWN
PIN 43378-0109

LOT 25
CONCESSION 11
DAWN
PIN 43377-0067

TLU - 30.0m x 1010.1m
7.56 acres

EASEMENT TITLE SEARCH IN PROGRESS
PIN 43377-0067

SUBJECT TO UNION GAS EASEMENT OVER
ENTIRETY OF PARCEL AS IN DN21379
PIN 43374-0056

TLU - 30.0m x 700.6m
5.19 acres

BENTPATH LINE

BENTPATH LINE

BENTPATH LINE

BENTPATH LINE

HALE SCHOOL R

HALE SCHOOL ROAD

PIN 43378-0121

PIN 43378-0139

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA Z662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REMARKS

ENGINEER:

ENBRIDGE
Life Takes Energy

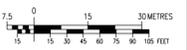
LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

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CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:

SIZE STRIP	SHEET 11 OF 73	DRAWING No.
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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
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- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA Z662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REMARKS

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

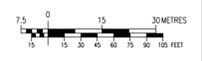
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SIZE STRIP	SHEET 11 OF 73	DRAWING No.
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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
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- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
 - DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

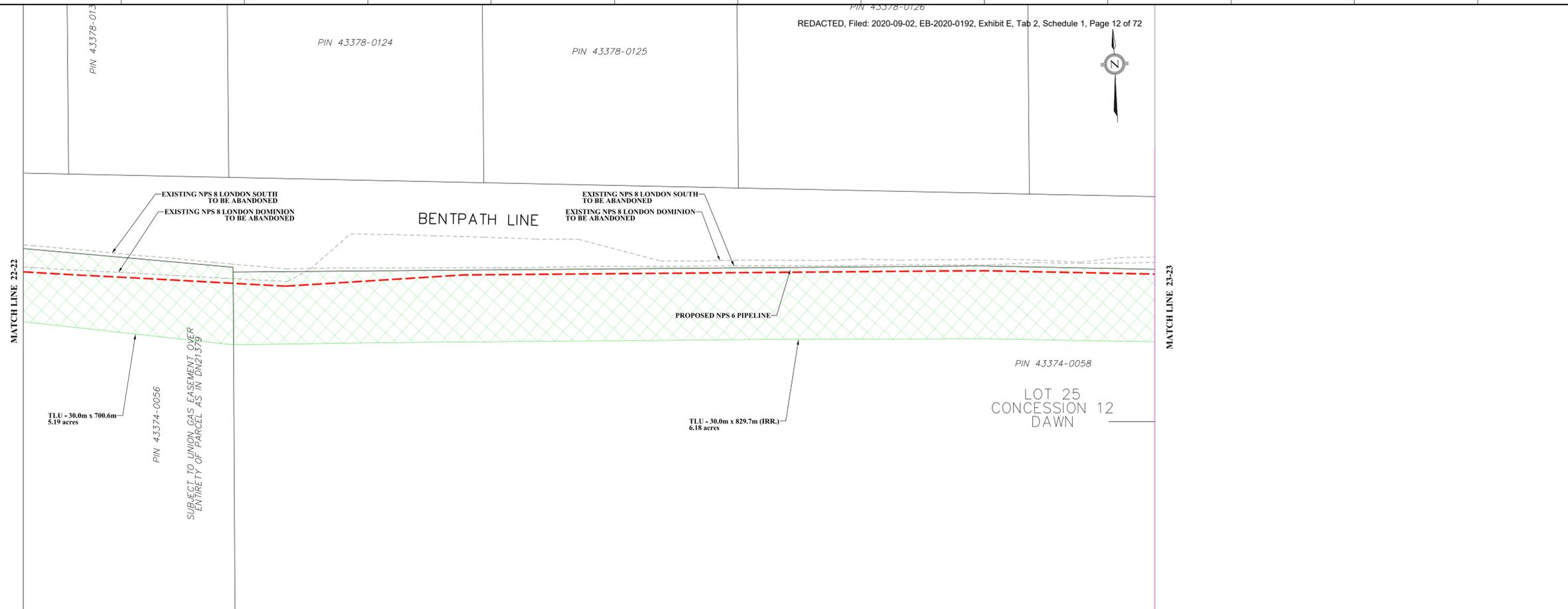
ENGINEER:

ENBRIDGE
 Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
 TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

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APPROVED BY:	DATE:	FILE REVISION DATE:

SIZE STRIP	SHEET 12 OF 73	DRAWING No.
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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
 - DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

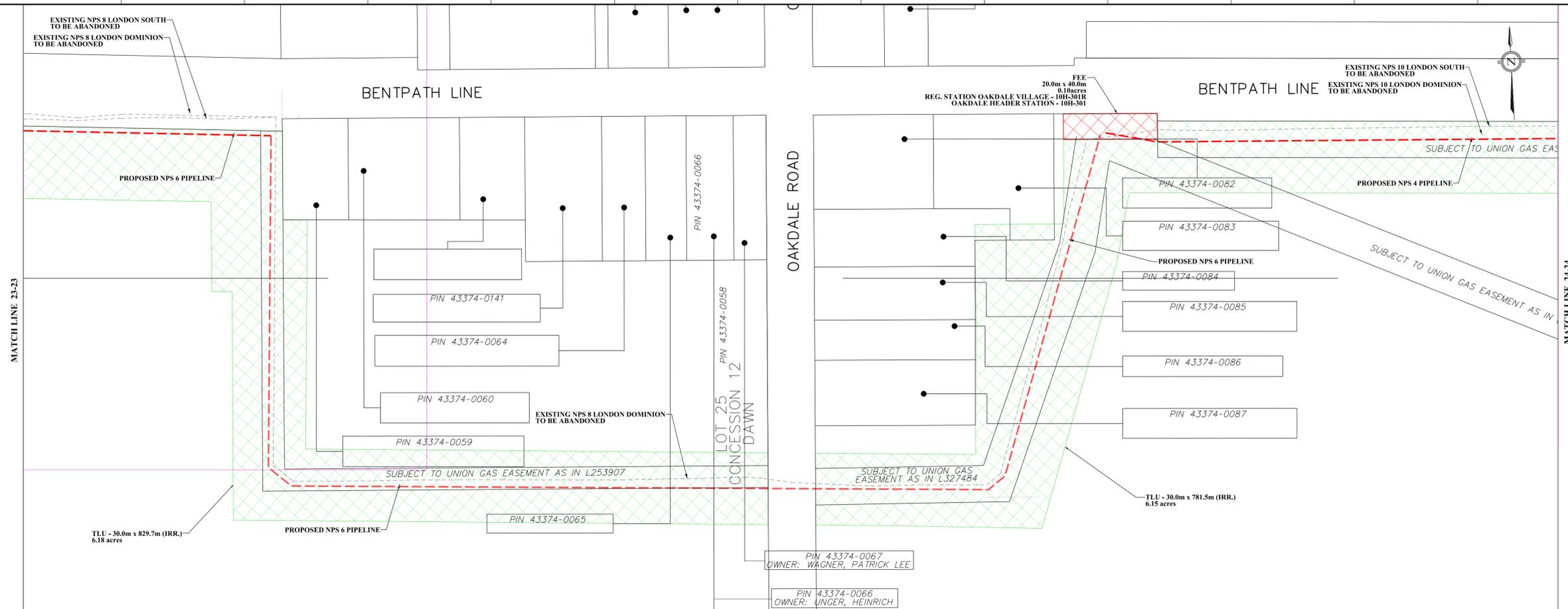
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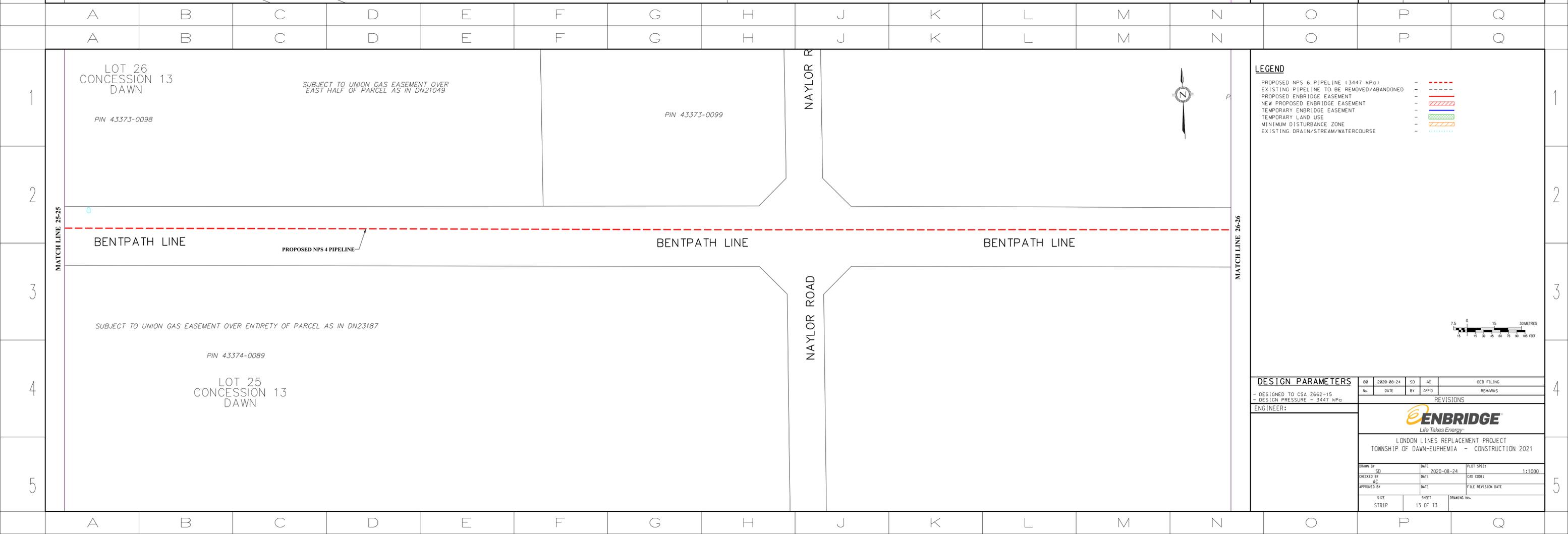
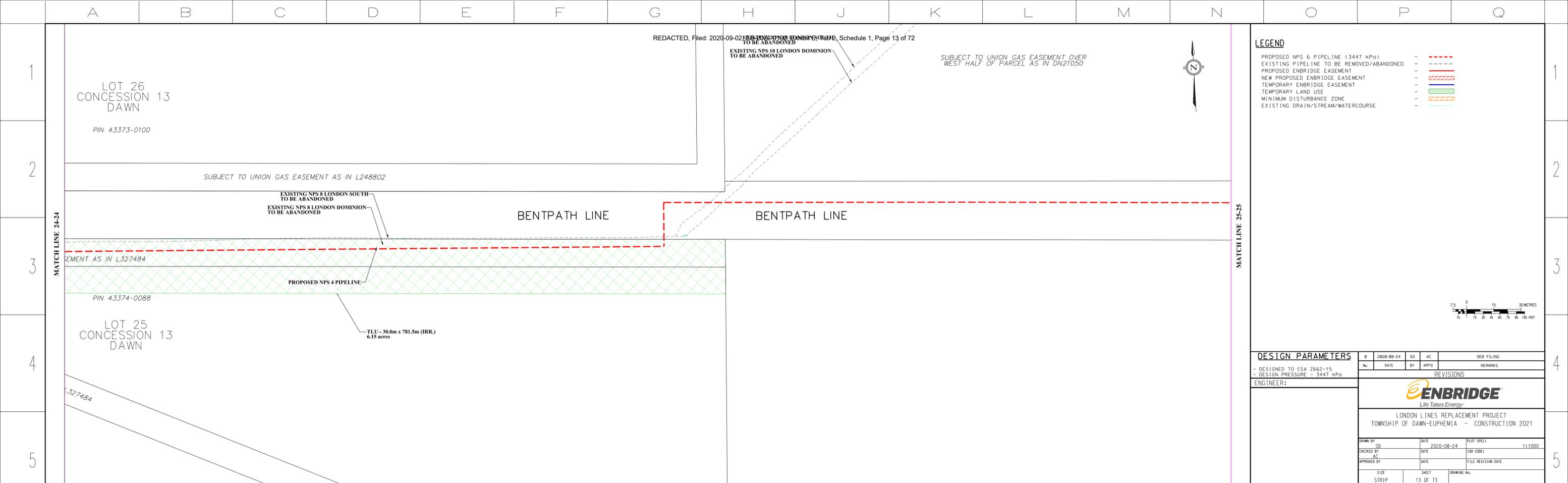
ENBRIDGE
 Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
 TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:

SIZE STRIP	SHEET 12 OF 73	DRAWING No.
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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REMARKS

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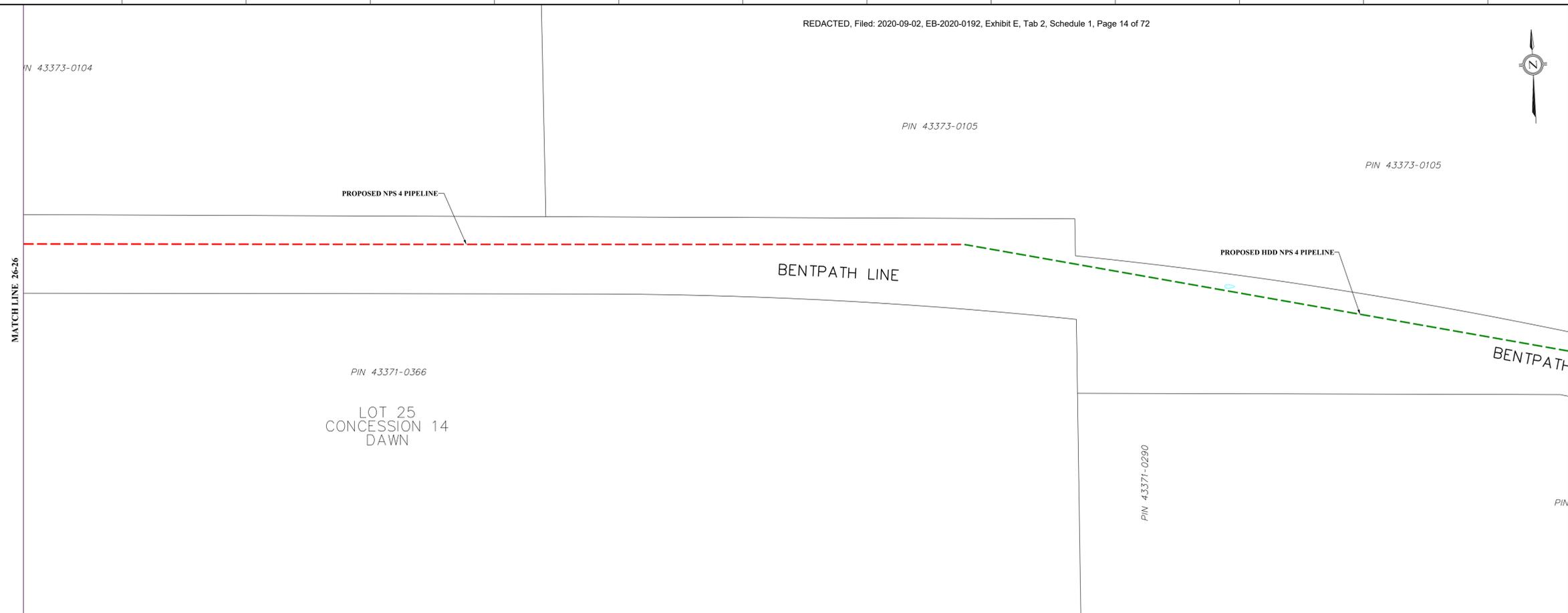
REVISIONS



LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY	DATE	DATE	DATE	DATE
SD	2020-08-24	2020-08-24		
AC				

SIZE STRIP	SHEET	DRAWING No.
	14 OF 73	



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REMARKS

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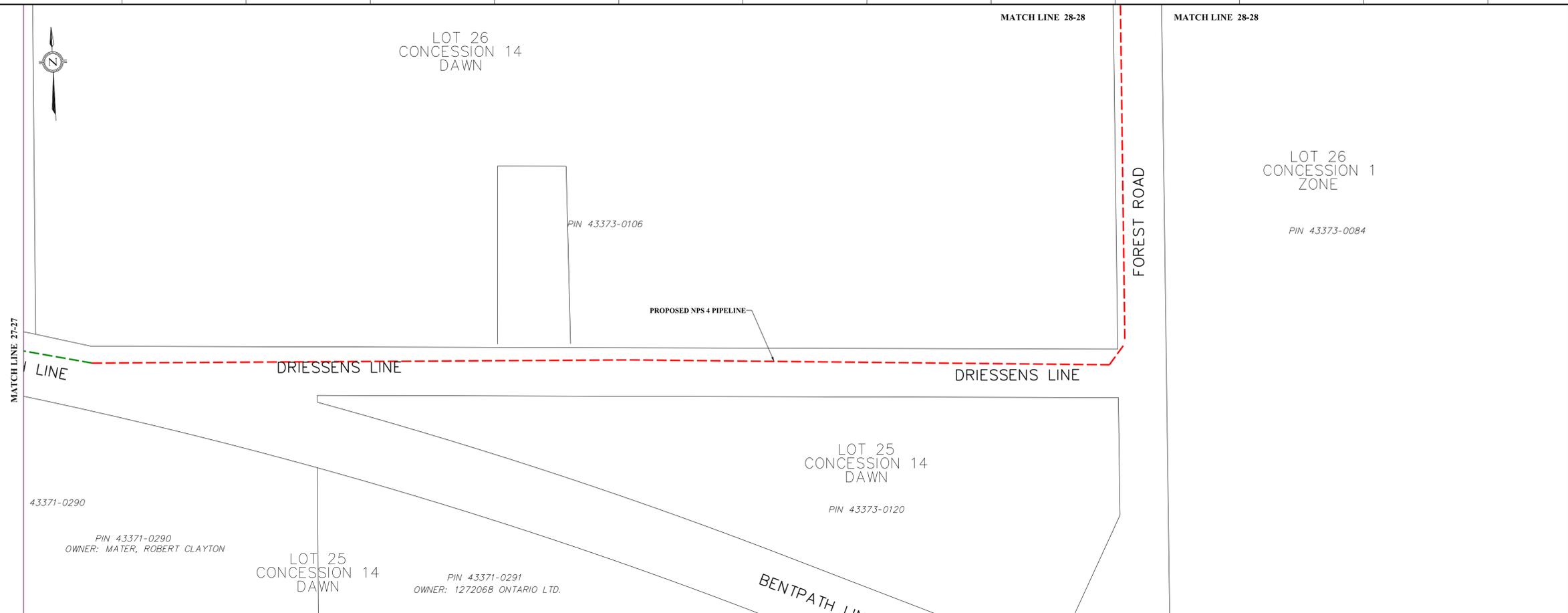
REVISIONS



LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY	DATE	DATE	DATE	DATE
SD	2020-08-24	2020-08-24		
AC				

SIZE STRIP	SHEET	DRAWING No.
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LOT 26
CONCESSION 14
DAWN

PIN 43373-0106

PROPOSED NPS 4 PIPELINE

PROPOSED NPS 4 PIPELINE

FOREST ROAD

PIN 43373-0084

LOT 26
CONCESSION 1
ZONE

PIN 43373-0083

LOT 27
CONCESSION 1
ZONE

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

#	2020-08-24	SD	AC	DEB FILING
NO.	DATE	BY	APPD	REMARKS

ENGINEER:

REVISIONS



LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY	SD	DATE	2020-08-24	PLOT SPEC	1:1000
CHECKED BY	AC	DATE		CAD CODE	
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SIZE STRIP	SHEET 15 OF 73	DRAWING No.
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A B C D E F G H J K L M N O P Q

43373-0108

CONCESSION 14
DAWN

LOT 27
CONCESSION 14
DAWN

PIN 43373-0109



PIN 43373-0112

PROPOSED NPS 4 PIPELINE

PROPOSED NPS 4 PIPELINE

FOREST ROAD

LOT 27
CONCESSION 1
ZONE

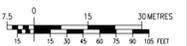
PIN 43373-0082

PIN 43373-0081

LOT 28
CONCESSION 1
ZONE

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

#	2020-08-24	SD	AC	DEB FILING
NO.	DATE	BY	APPD	REMARKS

ENGINEER:

REVISIONS

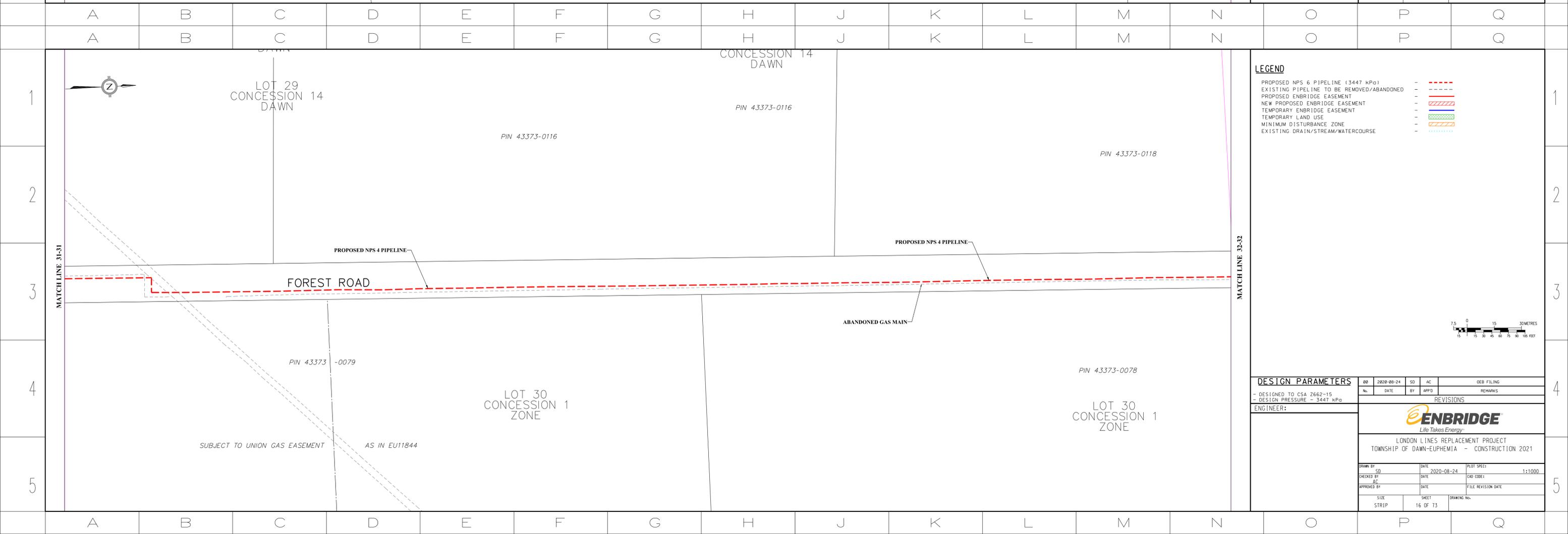
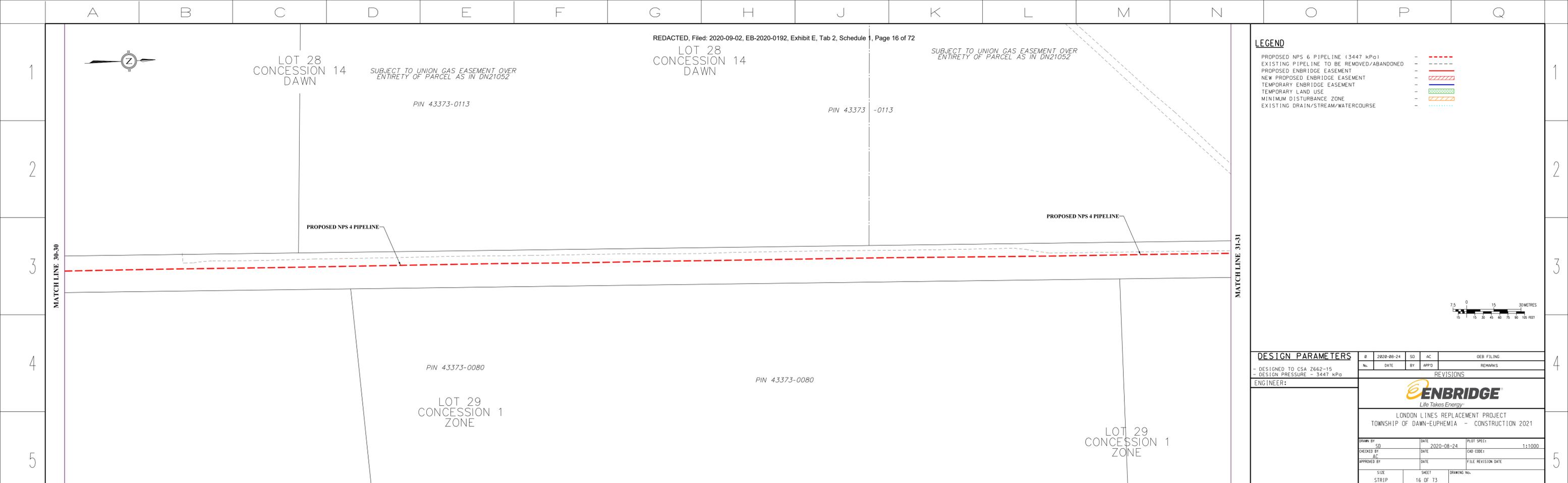


LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

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SIZE STRIP	SHEET 15 OF 73	DRAWING No.
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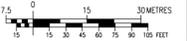


LOT 31
CONCESSION 1
ZONE

PIN 43373-0076

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

DESIGNED TO CSA Z662-15
DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

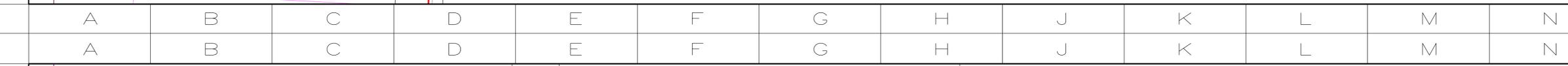
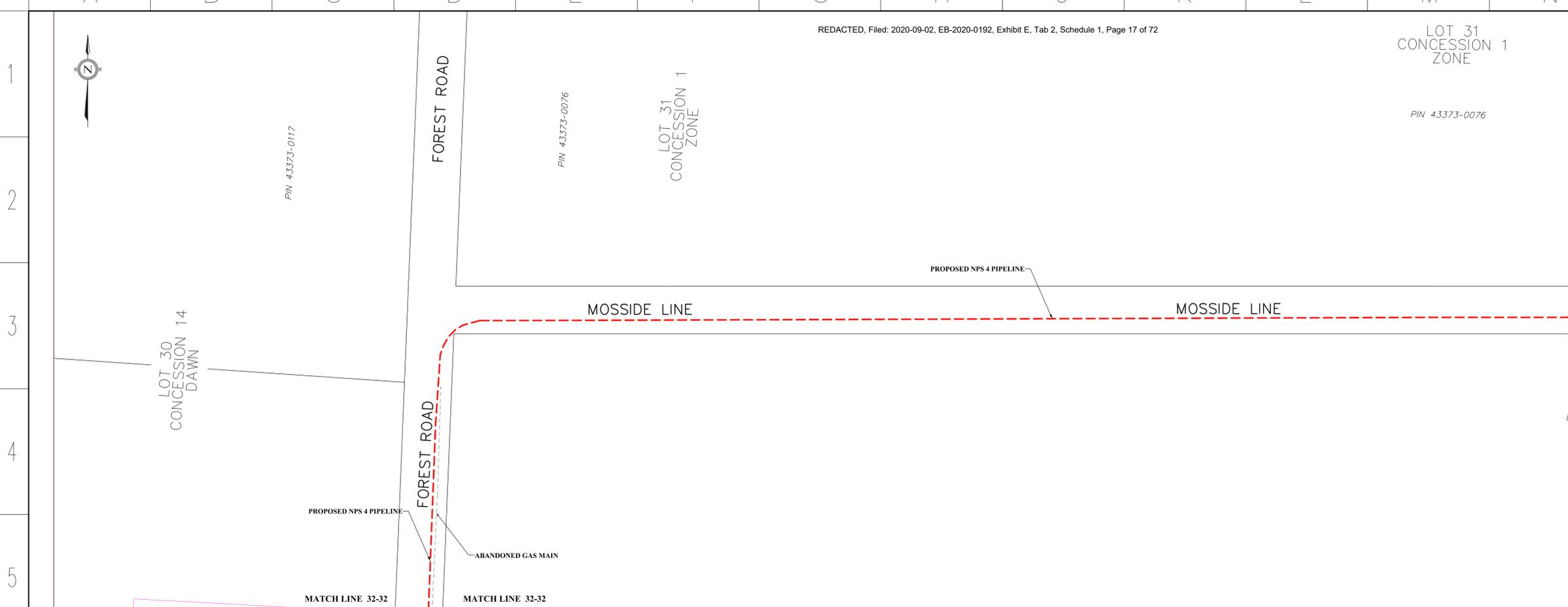
ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY SD	DATE 2020-08-24	PLOT SPEC:	1:1000
CHECKED BY AC	DATE	CAD CODE:	
APPROVED BY	DATE	FILE REVISION DATE	

SIZE STRIP	SHEET 17 OF 73	DRAWING No.
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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

DESIGNED TO CSA Z662-15
DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

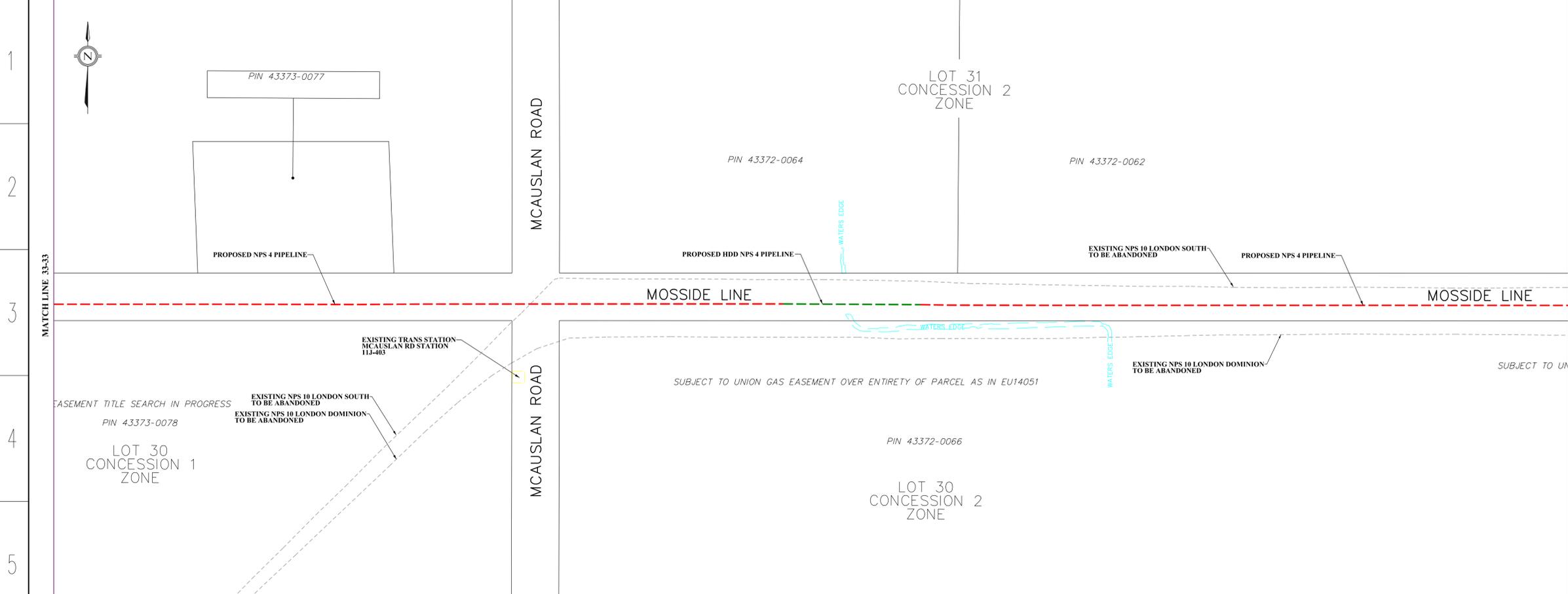
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ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

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CHECKED BY AC	DATE	CAD CODE:	
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LOT 31
CONCESSION 2
ZONE

PIN 43372-0062



EXISTING NPS 10 LONDON SOUTH
TO BE ABANDONED

PROPOSED NPS 4 PIPELINE

MOSSIDE LINE

EXISTING NPS 10 LONDON DOMINION
TO BE ABANDONED

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN EU14034

PIN 43372-0066

LOT 30
CONCESSION 2
ZONE

PIN 43372-0067

LOT 30
CONCESSION 2
ZONE

LEGEND



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY SD	DATE 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY AC	DATE	CAD CODE:
APPROVED BY	DATE	FILE REVISION DATE

SIZE STRIP	SHEET 18 OF 73	DRAWING No.
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A B C D E F G H J K L M N O P Q

LOT 31
CONCESSION 2
ZONE

PIN 43372-0062

LOT 31
CONCESSION 3
ZONE

PIN 43372-0098

INWOOD ROAD

PROPOSED HDD NPS 4 PIPELINE

EXISTING NPS 10 LONDON SOUTH
TO BE ABANDONED

PROPOSED NPS 4 PIPELINE

MOSSIDE LINE

MOSSIDE LINE

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN EU14034

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN EU14055

PIN 43372-0067

LOT 30
CONCESSION 2
ZONE

PIN 43372-0094

LOT 30
CONCESSION 3
ZONE

INWOOD ROAD

PIN 43372-0095

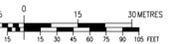
EXISTING NPS 10 LONDON DOMINION
TO BE ABANDONED

EXISTING TRANS STATION
SHEFLAND STATION
11J-501

TLU - 10.0m x 73.7m (IRR.)
0.18 acres

PERMANENT LAND USE
20.0m x 43.0m (IRR.)
0.19 acres

LEGEND



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY SD	DATE 2020-08-24	PLOT SPEC: 1:1000
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SIZE STRIP	SHEET 18 OF 73	DRAWING No.
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A B C D E F G H J K L M N O P Q

MATCH LINE 36-36

MATCH LINE 37-37

1
2
3
4
5

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



LOT 31 CONCESSION 3 ZONE
PIN 43372-0098

PIN 43372-0099

LOT 31 CONCESSION 3 ZONE

PIN 43372-0100

EXISTING NPS 10 LONDON SOUTH TO BE ABANDONED

PROPOSED NPS 4 PIPELINE

MOSSIDE LINE

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN EU14055

PIN 43372-0094



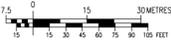
TLU - 30.0m x 30.0m
0.22 acres

EXISTING NPS 10 LONDON DOMINION TO BE ABANDONED

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN EU14035

PIN 43372-0096

LOT 30 CONCESSION 3 ZONE



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REVISIONS	REMARKS
1	2020-08-24	SD	AC		DEB FILING

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY	SD	DATE	2020-08-24	PLOT SPEC:	1:1000
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SIZE STRIP		SHEET	19 OF 73	DRAWING No.	

1
2
3
4
5

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



LOT 31 CONCESSION 3 ZONE
PIN 43372-0100

LOT 31 CONCESSION 4 ZONE
PIN 43369-0062

BURR ROAD

BURR ROAD

EXISTING NPS 10 LONDON SOUTH TO BE ABANDONED

PROPOSED NPS 4 PIPELINE

PROPOSED HDD NPS 4 PIPELINE

PROPOSED NPS 4 PIPELINE

MOSSIDE LINE

MOSSIDE LINE

MOSSIDE

EXISTING NPS 10 LONDON DOMINION TO BE ABANDONED

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN EU14035

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN EU140

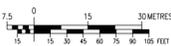
PIN 43372-0096

TLU - 30.0m x 30.0m
0.22 acres

LOT 30 CONCESSION 3 ZONE

PIN 43369-0102

LOT 30 CONCESSION 4 ZONE

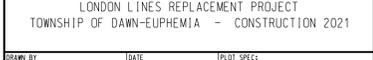


DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

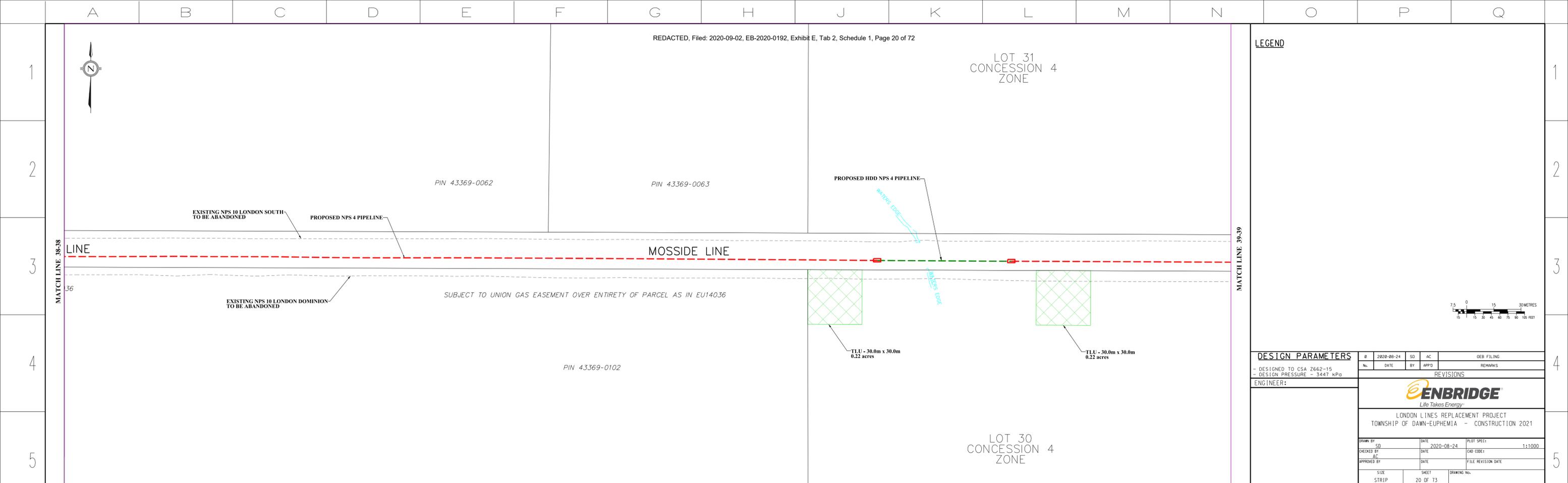
#	DATE	BY	APPD	REVISIONS	REMARKS
1	2020-08-24	SD	AC		DEB FILING

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY	SD	DATE	2020-08-24	PLOT SPEC:	1:1000
CHECKED BY	AC	DATE		CAD CODE:	
APPROVED BY		DATE		FILE REVISION DATE	
SIZE STRIP		SHEET	19 OF 73	DRAWING No.	



REDACTED, Filed: 2020-09-02, EB-2020-0192, Exhibit E, Tab 2, Schedule 1, Page 20 of 72

LOT 31
CONCESSION 4
ZONE

PIN 43369-0062

PIN 43369-0063

EXISTING NPS 10 LONDON SOUTH
TO BE ABANDONED

PROPOSED NPS 4 PIPELINE

PROPOSED HDD NPS 4 PIPELINE

WATERS EDGE

WATERS EDGE

MOSSY LINE

EXISTING NPS 10 LONDON DOMINION
TO BE ABANDONED

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN EU14036

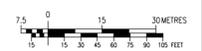
TLU - 30.0m x 30.0m
0.22 acres

TLU - 30.0m x 30.0m
0.22 acres

PIN 43369-0102

LOT 30
CONCESSION 4
ZONE

LEGEND



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE = 3447 kPa

NO.	DATE	BY	APPD	REMARKS

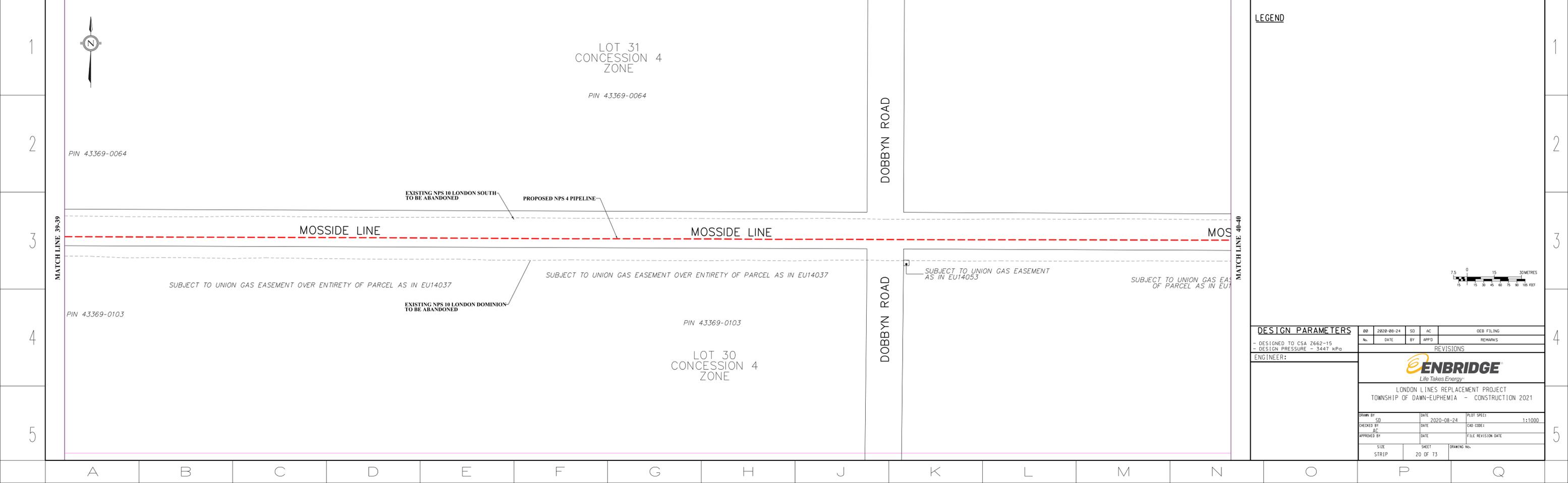
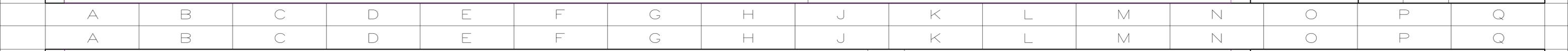
ENGINEER:



LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY	DATE	DATE	DATE	DATE
SD	2020-08-24	2020-08-24	2020-08-24	2020-08-24
CHECKED BY	AC			
APPROVED BY				

SIZE STRIP	SHEET	DRAWING No.
	20 OF 73	



LOT 31
CONCESSION 4
ZONE

PIN 43369-0064

PIN 43369-0064

EXISTING NPS 10 LONDON SOUTH
TO BE ABANDONED

PROPOSED NPS 4 PIPELINE

MOSSY LINE

MOSSY LINE

MOSSY LINE

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN EU14037

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN EU14037

SUBJECT TO UNION GAS EASEMENT
AS IN EU14053

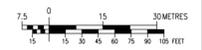
SUBJECT TO UNION GAS EASEMENT
OF PARCEL AS IN EU14053

EXISTING NPS 10 LONDON DOMINION
TO BE ABANDONED

PIN 43369-0103

LOT 30
CONCESSION 4
ZONE

LEGEND



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE = 3447 kPa

NO.	DATE	BY	APPD	REMARKS

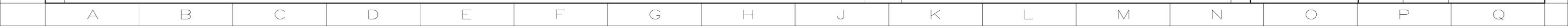
ENGINEER:



LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

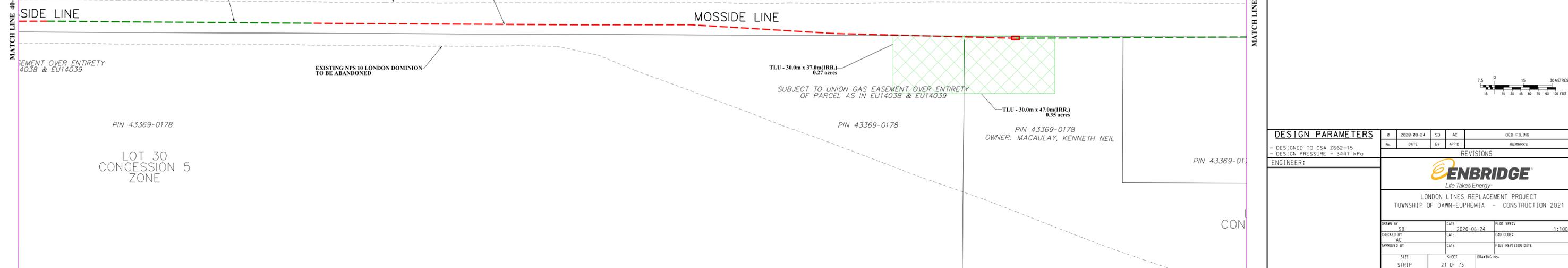
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SD	2020-08-24	2020-08-24	2020-08-24	2020-08-24
CHECKED BY	AC			
APPROVED BY				

SIZE STRIP	SHEET	DRAWING No.
	20 OF 73	



MATCH LINE 40-40

MATCH LINE 41-41



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -

DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
 - DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:

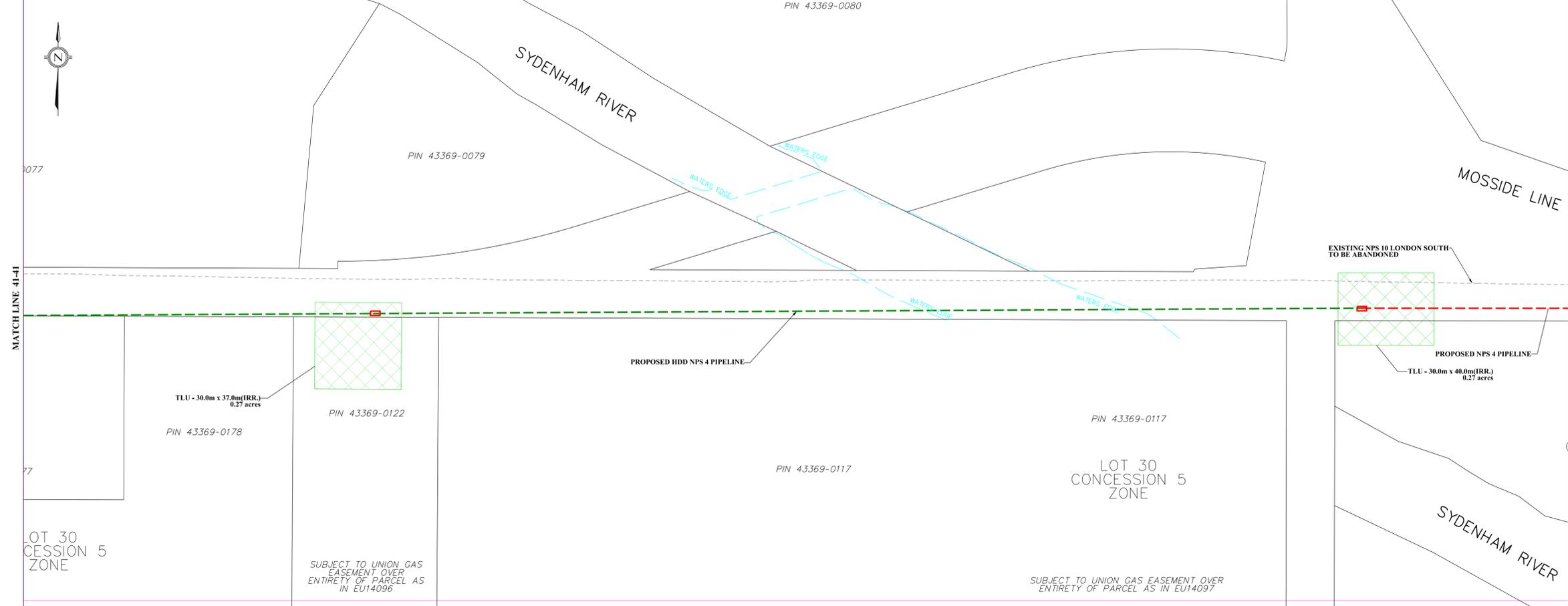
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TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

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CHECKED BY: AC	DATE:	CAO CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:

SIZE STRIP	SHEET 21 OF 73	DRAWING No.
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A B C D E F G H J K L M N O P Q

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



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -

DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
 - DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:

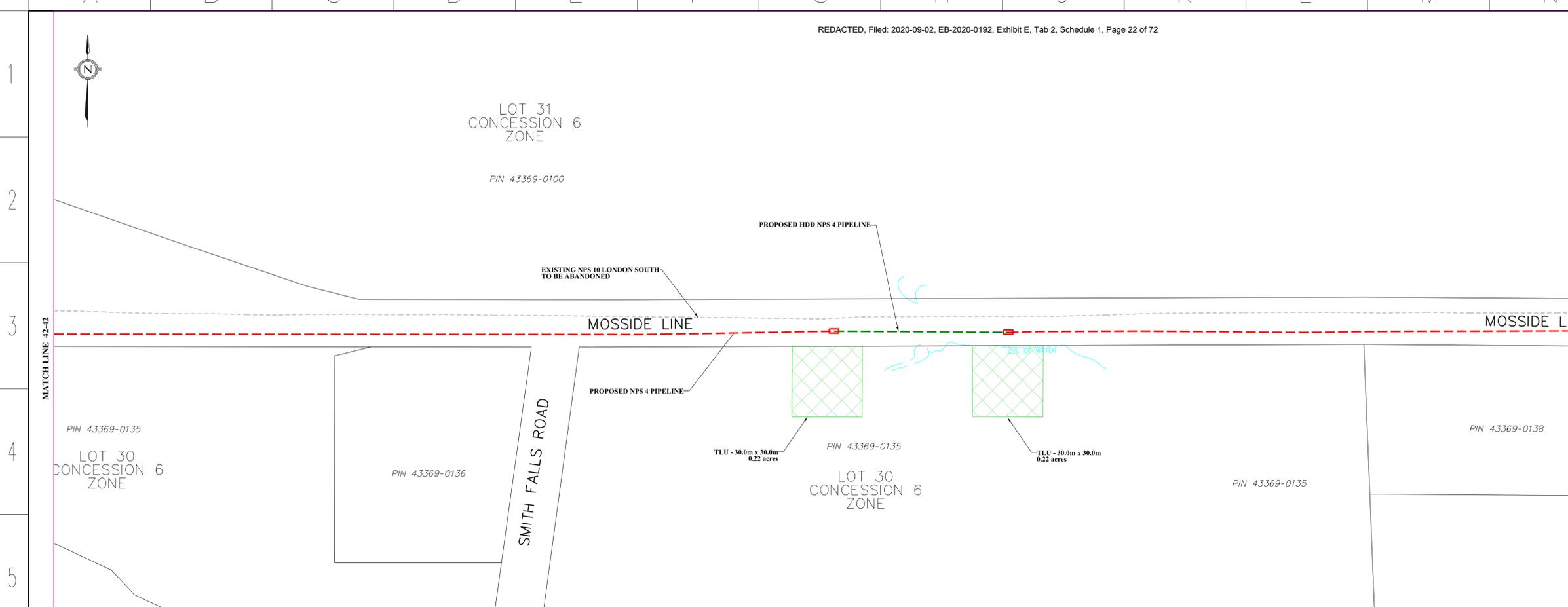
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TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

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SIZE STRIP	SHEET 21 OF 73	DRAWING No.
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A B C D E F G H J K L M N O P Q

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

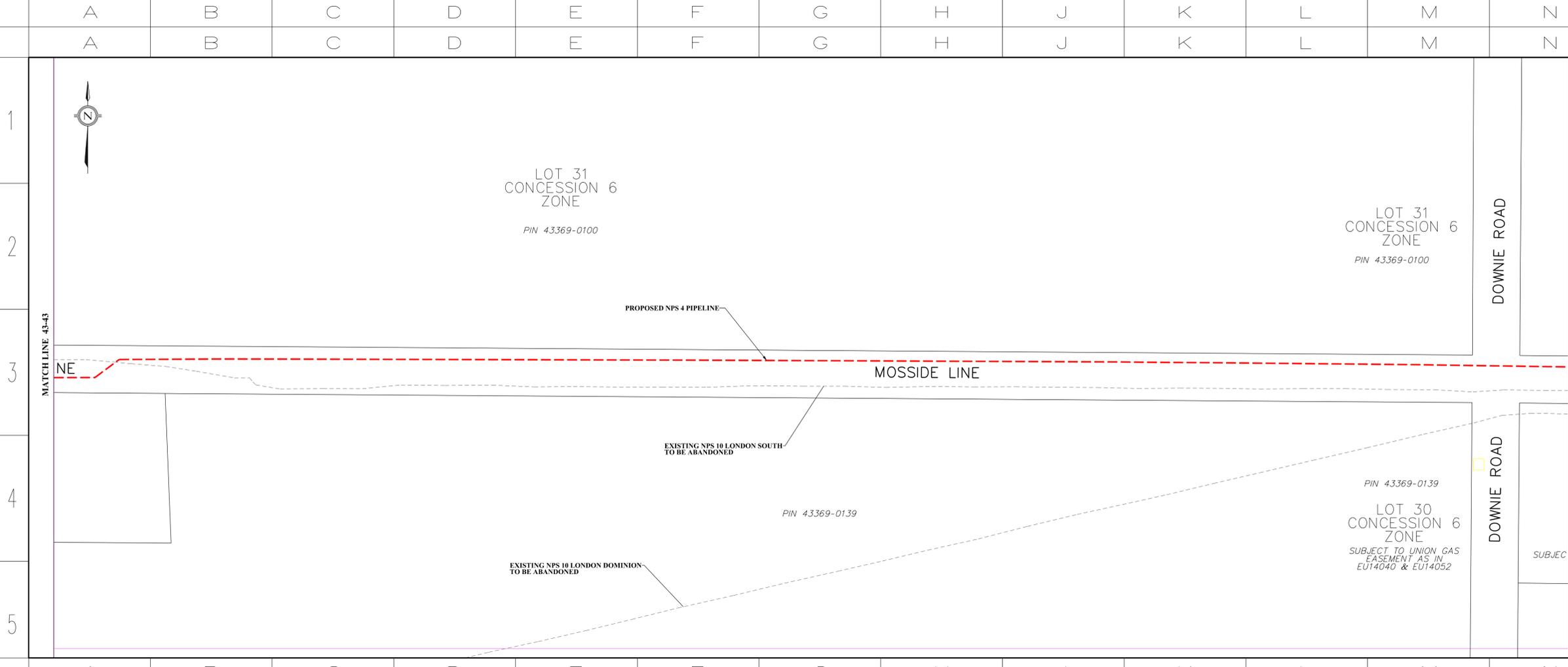


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -

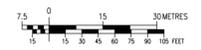


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- DESIGNED TO CSA 2662-15		NO.	DATE	BY	APPD	REMARKS
- DESIGN PRESSURE = 3447 kPa		REVISIONS				
ENGINEER:						
LONDON LINES REPLACEMENT PROJECT TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021						
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SIZE STRIP	SHEET 22 OF 73	DRAWING No.				

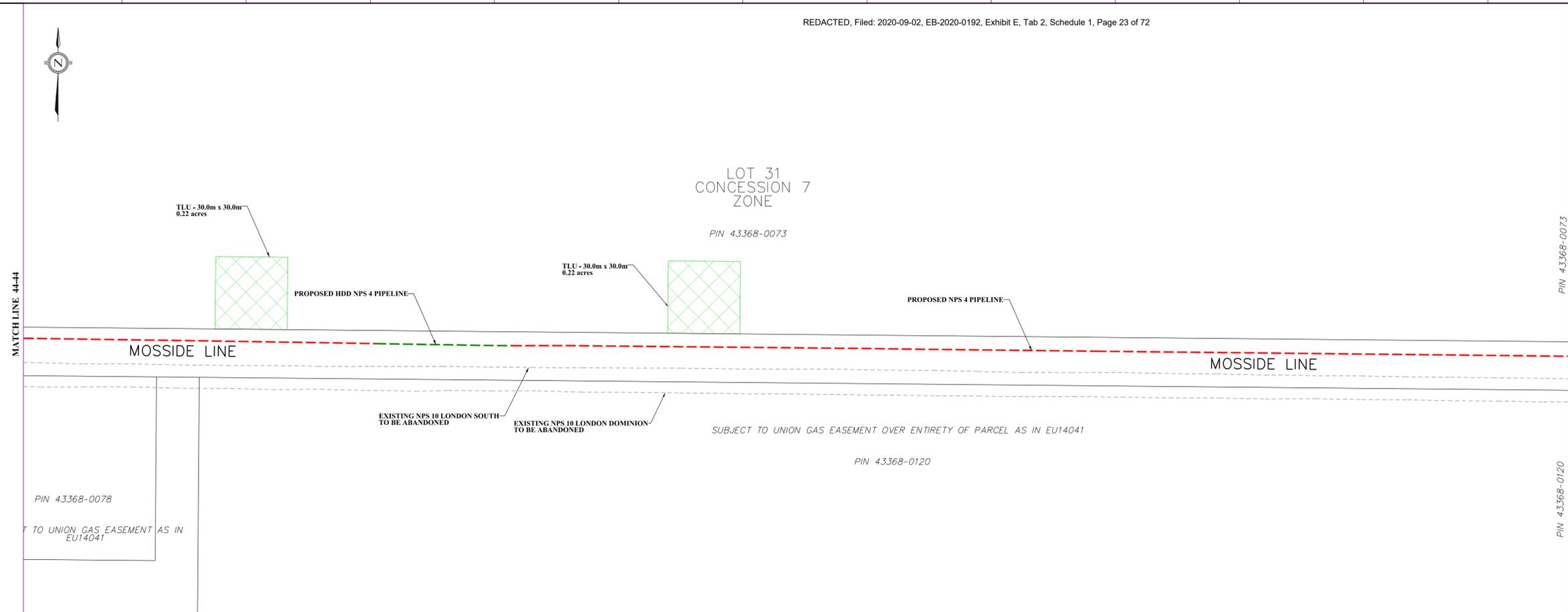


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		DB	2020-08-24	SD	AC	DEB FILING
- DESIGNED TO CSA 2662-15		NO.	DATE	BY	APPD	REMARKS
- DESIGN PRESSURE = 3447 kPa		REVISIONS				
ENGINEER:						
LONDON LINES REPLACEMENT PROJECT TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021						
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SIZE STRIP	SHEET 22 OF 73	DRAWING No.				

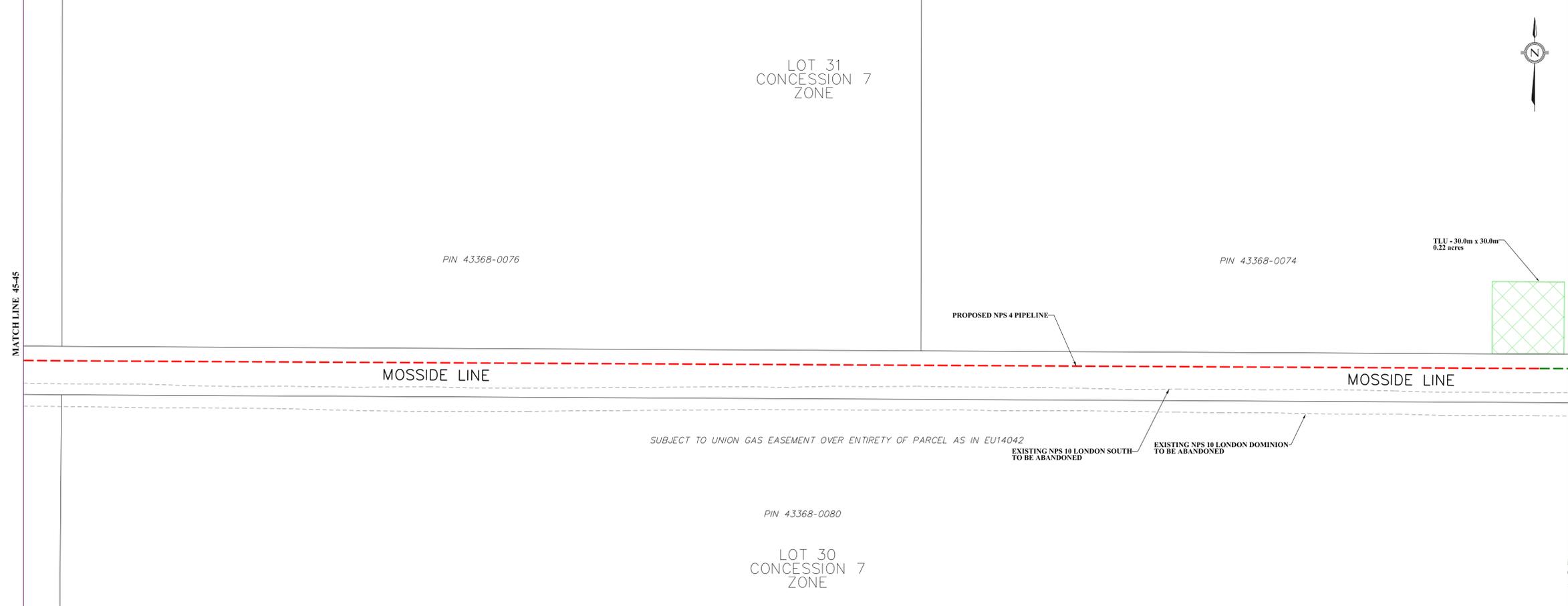


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		NO.	DATE	BY	APPD	REVISIONS	REMARKS		
DESIGNED TO CSA 2662-15									
DESIGN PRESSURE = 3447 kPa									
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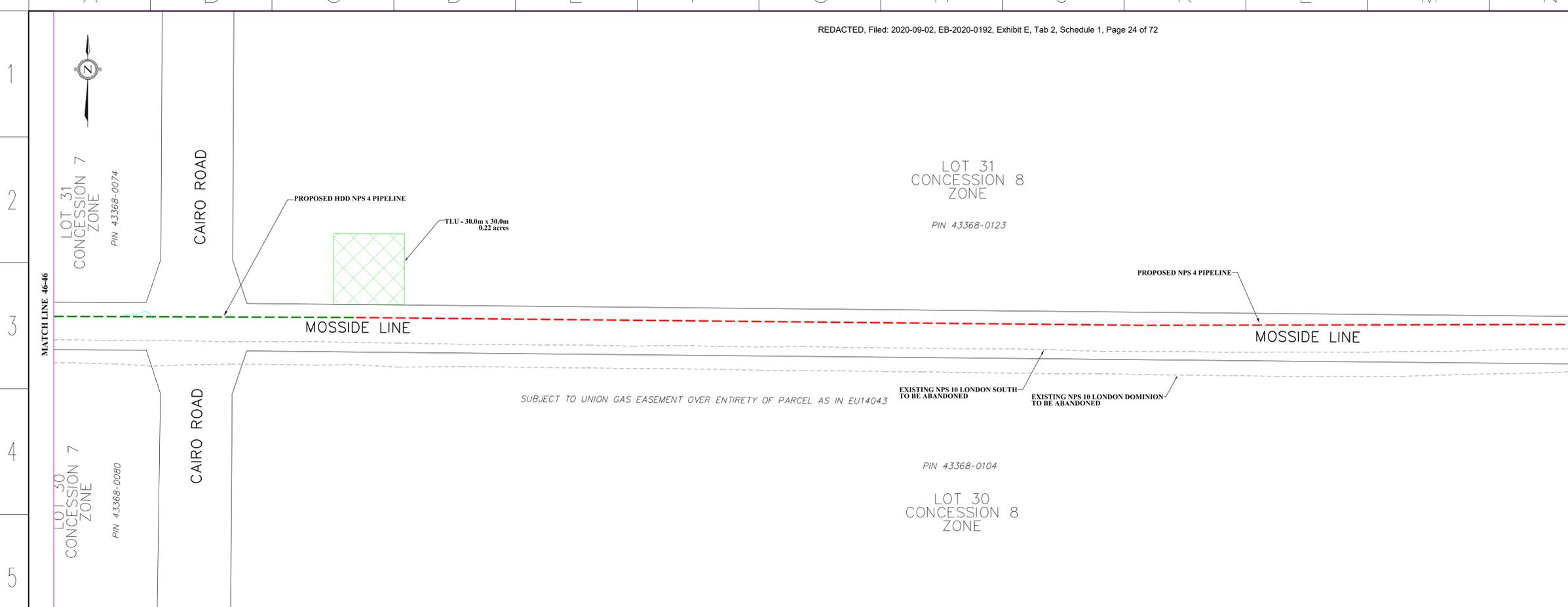
LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		NO.	DATE	BY	APPD	REVISIONS	REMARKS		
DESIGNED TO CSA 2662-15									
DESIGN PRESSURE = 3447 kPa									
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SIZE STRIP	SHEET 23 OF 73	DRAWING No.							



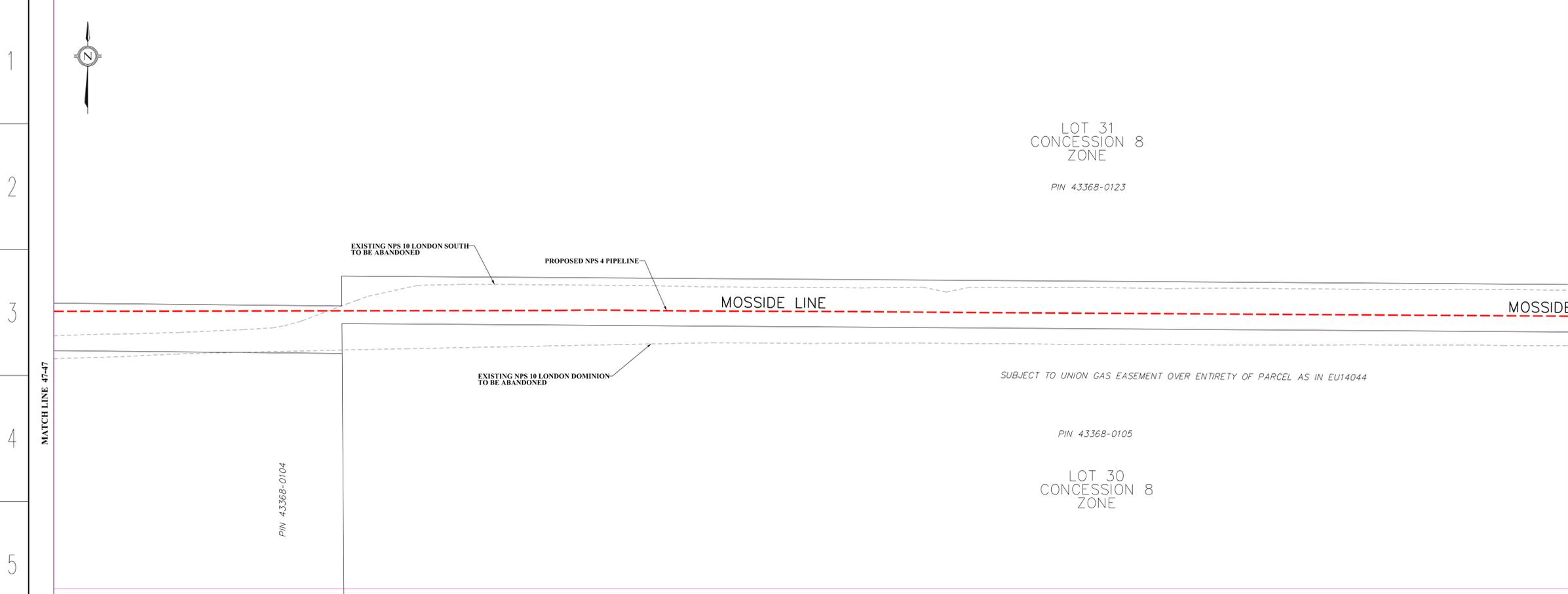
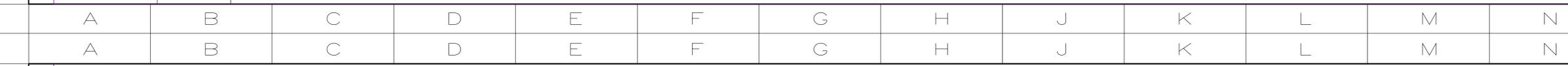


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -

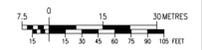


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- DESIGN PRESSURE = 3447 kPa	REVISIONS					
ENGINEER:						
LONDON LINES REPLACEMENT PROJECT TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021						
DRAWN BY	SD	DATE	2020-08-24	PLOT SPEC:	1:1000	
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SIZE	SHEET	DRAWING No.				
STRIP	24 OF 73					



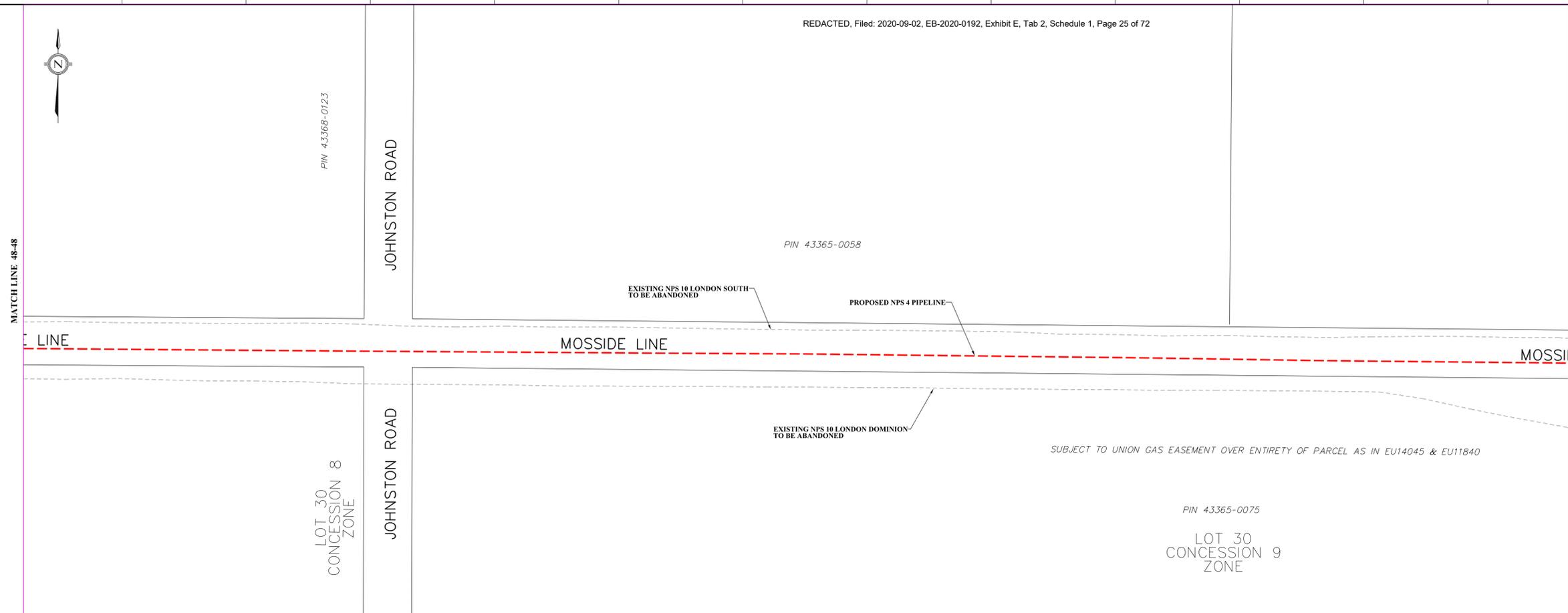
LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		#	2020-08-24	SD	AC	DEB FILING
- DESIGNED TO CSA 2662-15	NO.	DATE	BY	APPD	REMARKS	
- DESIGN PRESSURE = 3447 kPa	REVISIONS					
ENGINEER:						
LONDON LINES REPLACEMENT PROJECT TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021						
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CHECKED BY	AC	DATE		CAD CODE:		
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SIZE	SHEET	DRAWING No.				
STRIP	24 OF 73					





LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

DESIGNED TO CSA 2662-15	DESIGN PRESSURE - 3447 kPa	NO.	DATE	BY	APPD	REVISIONS	REMARKS
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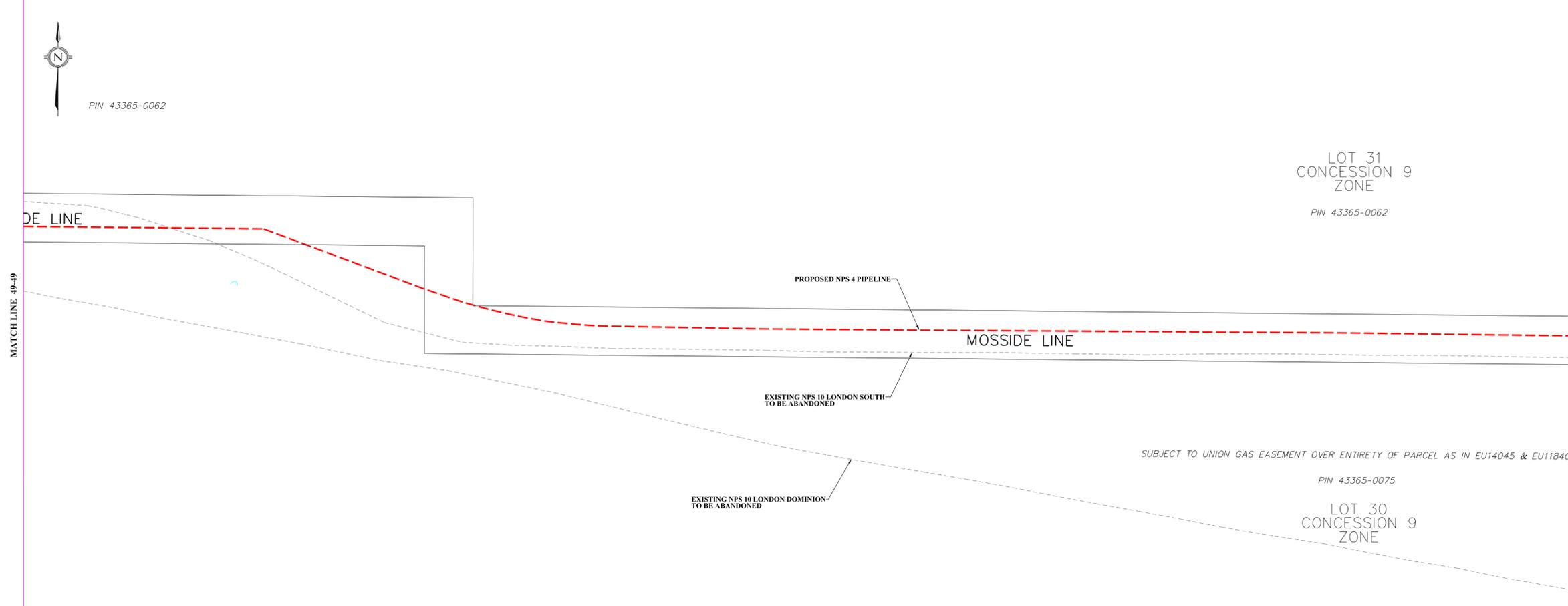
ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:

SIZE STRIP	SHEET 25 OF 73	DRAWING No.
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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

DESIGNED TO CSA 2662-15	DESIGN PRESSURE - 3447 kPa	NO.	DATE	BY	APPD	REVISIONS	REMARKS
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ENGINEER:

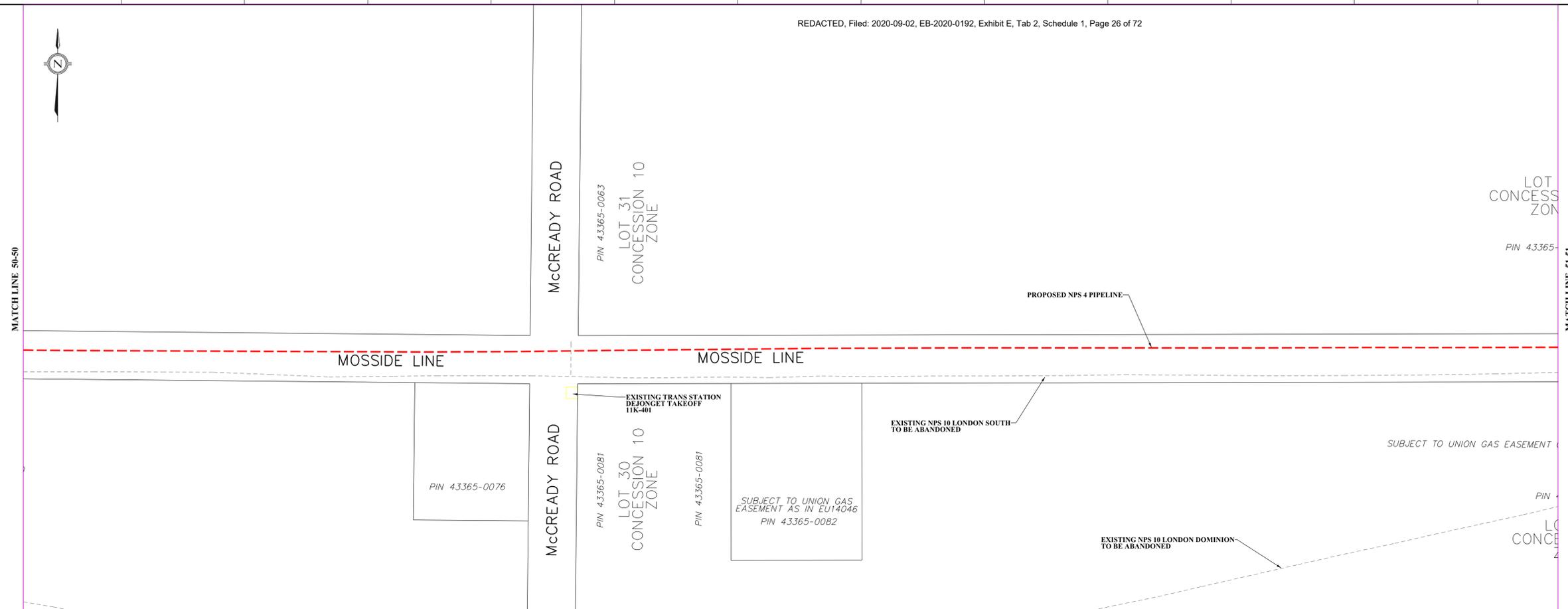
ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:

SIZE STRIP	SHEET 25 OF 73	DRAWING No.
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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

NO.	2020-08-24	SD	AC	DEB FILING
DATE	BY	APPD	REMARKS	

DESIGNED TO CSA 2662-15
DESIGN PRESSURE - 3447 kPa

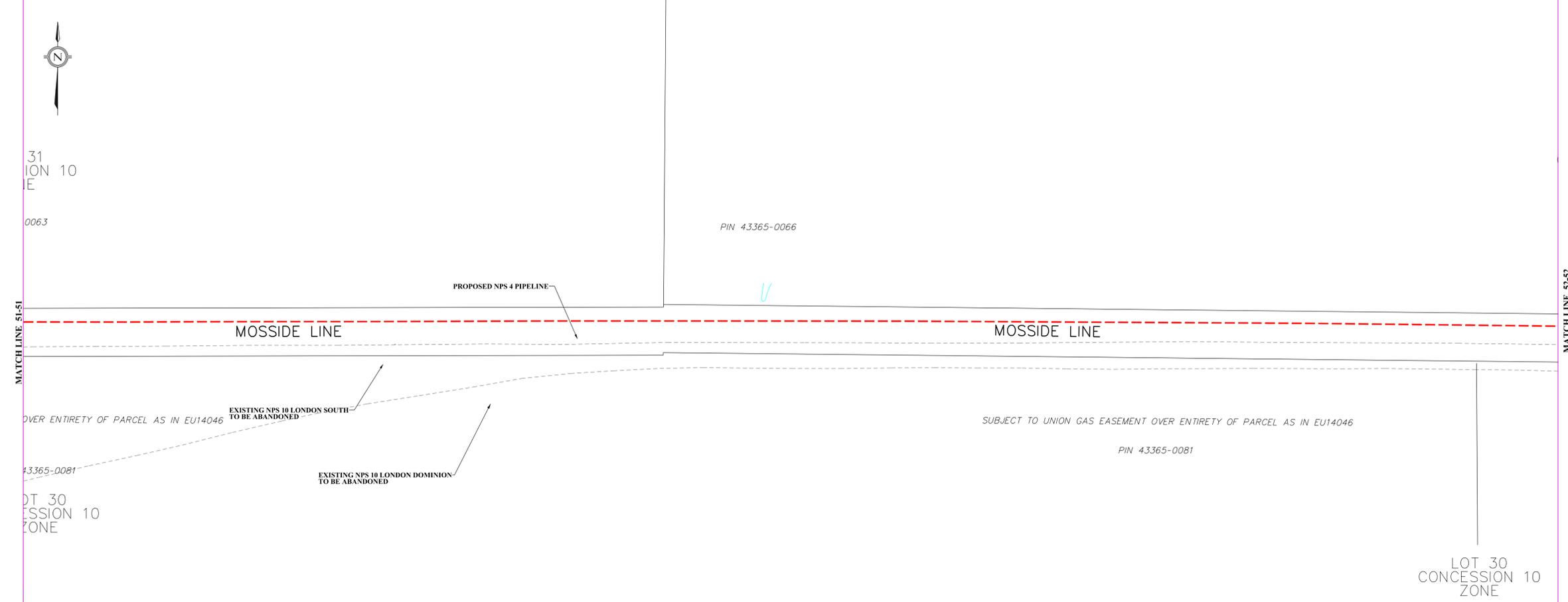
ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY	SD	DATE	2020-08-24	PLOT SPEC:	1:1000
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APPROVED BY		DATE		FILE REVISION DATE	

SIZE STRIP	SHEET 26 OF 73	DRAWING No.
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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

NO.	2020-08-24	SD	AC	DEB FILING
DATE	BY	APPD	REMARKS	

DESIGNED TO CSA 2662-15
DESIGN PRESSURE - 3447 kPa

ENGINEER:

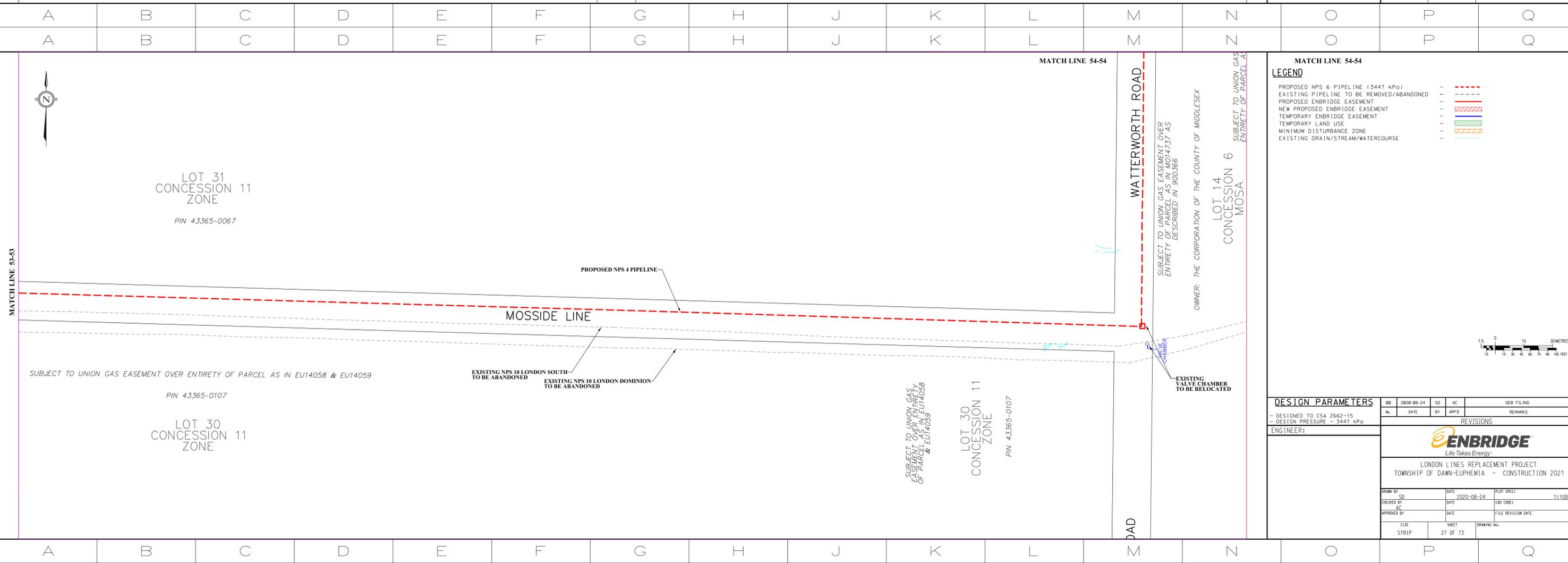
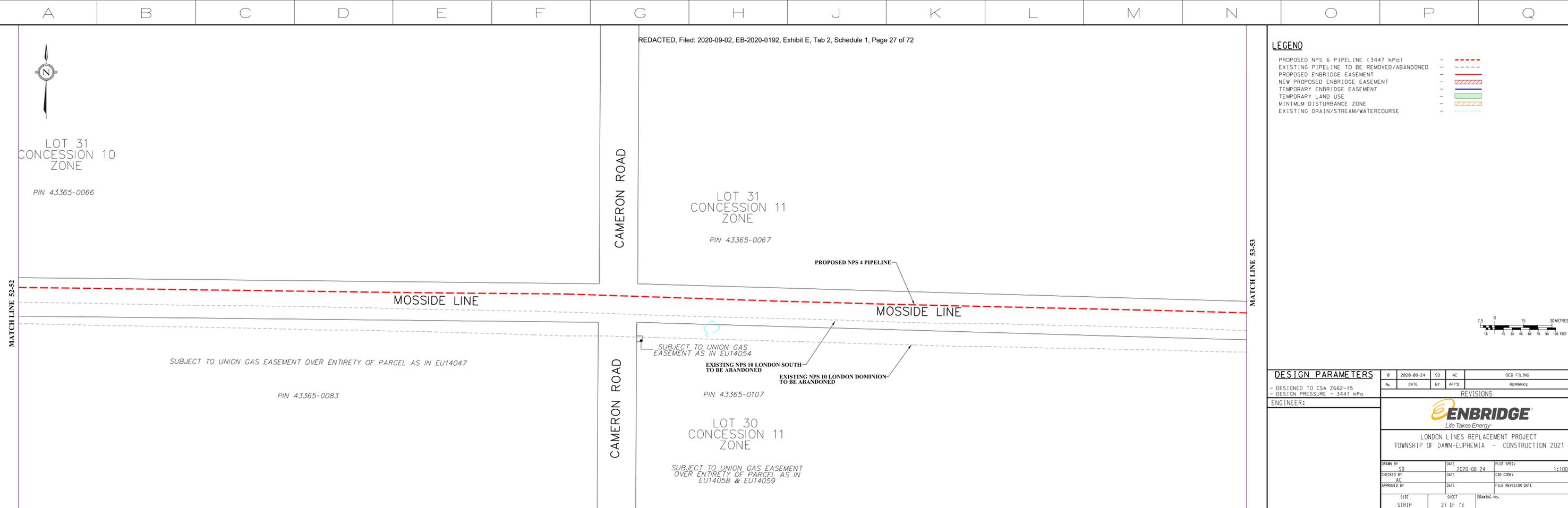
ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
TOWNSHIP OF DAWN-EUPHEMIA - CONSTRUCTION 2021

DRAWN BY	SD	DATE	2020-08-24	PLOT SPEC:	1:1000
CHECKED BY	AC	DATE		CAD CODE:	
APPROVED BY		DATE		FILE REVISION DATE	

SIZE STRIP	SHEET 26 OF 73	DRAWING No.
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LOT 31
CONCESSION 11
ZONE
PIN 43365-0067

PROPOSED NPS 4 PIPELINE

WATERWORTH ROAD

MATCH LINE 54-54

EASEMENT OVER
IN MO14737 AS
900366
0021
4
ON 6
A

SUBJECT TO UNION GAS EASEMENT OVER
ENTIRETY OF PARCEL AS IN MO14737 AS
DESCRIBED IN 900366
PIN 08573-0021
OWNER: THE CORPORATION OF THE COUNTY OF MIDDLESEX

LOT 14
CONCESSION 6
MOSA

PIN 08573-0027

LOT 14
CONCESSION 7
MOSA

MATCHLINE 55-55

LOT 14
CONCESSION 7
MOSA
PIN 08573-0027

ARGYLL ROAD

MATCHLINE 55-55

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA Z662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REVISIONS

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

DRAWN BY SD	DATE 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY AC	DATE	FILE REVISION DATE
APPROVED BY	DATE	FILE REVISION DATE
SIZE STRIP	SHEET 28 OF 73	DRAWING No.

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



LOT 14
CONCESSION 7
MOSA
PIN 08573-0027

LOT 13
CONCESSION 7
MOSA
PIN 08573-0027

PROPOSED NPS 4 PIPELINE

ARGYLL ROAD

MATCHLINE 55-55

MATCHLINE 56-56

LOT 14
CONCESSION 6
MOSA
PIN 08573-0021

LOT 13
CONCESSION 6
MOSA
PIN 08573-0039

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA Z662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REVISIONS

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

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



LOT 12
CONCESSION 7
MOSA

PIN 08572-0019

LOT 12
CONCESSION 6
MOSA

PIN 08572-0029

BIG BEND ROAD

BIG BEND ROAD

BIG BEND ROAD

PIN 08573-0027

LOT 13
CONCESSION 7
MOSA

PIN 08573-0039

PIN 08573-0039

ARGYLL ROAD

PROPOSED NPS 4 PIPELINE

LOT 13
CONCESSION 6
MOSA

PIN 08573-0038

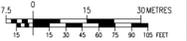
MATCH LINE 56-56

MATCH LINE 56-56

MATCHLINE 57-57

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLOT SPEC: 1:1000
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SIZE STRIP	SHEET 29 OF 73	DRAWING No.

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



LOT 12
CONCESSION 6
MOSA

PIN 08572-0030

PROPOSED NPS 4 PIPELINE

BIG BEND ROAD

EXISTING NPS 10 LONDON SOUTH
TO BE ABANDONED

PIN 08573-0022

EXISTING NPS 10 LONDON DOMINION
TO BE ABANDONED

SUBJECT TO UNION GAS EASEMENT AS IN M0193446

SUBJECT TO UNION GAS EASEMENT

MATCHLINE 57-57

MATCHLINE 58-58

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	REVISIONS	REMARKS

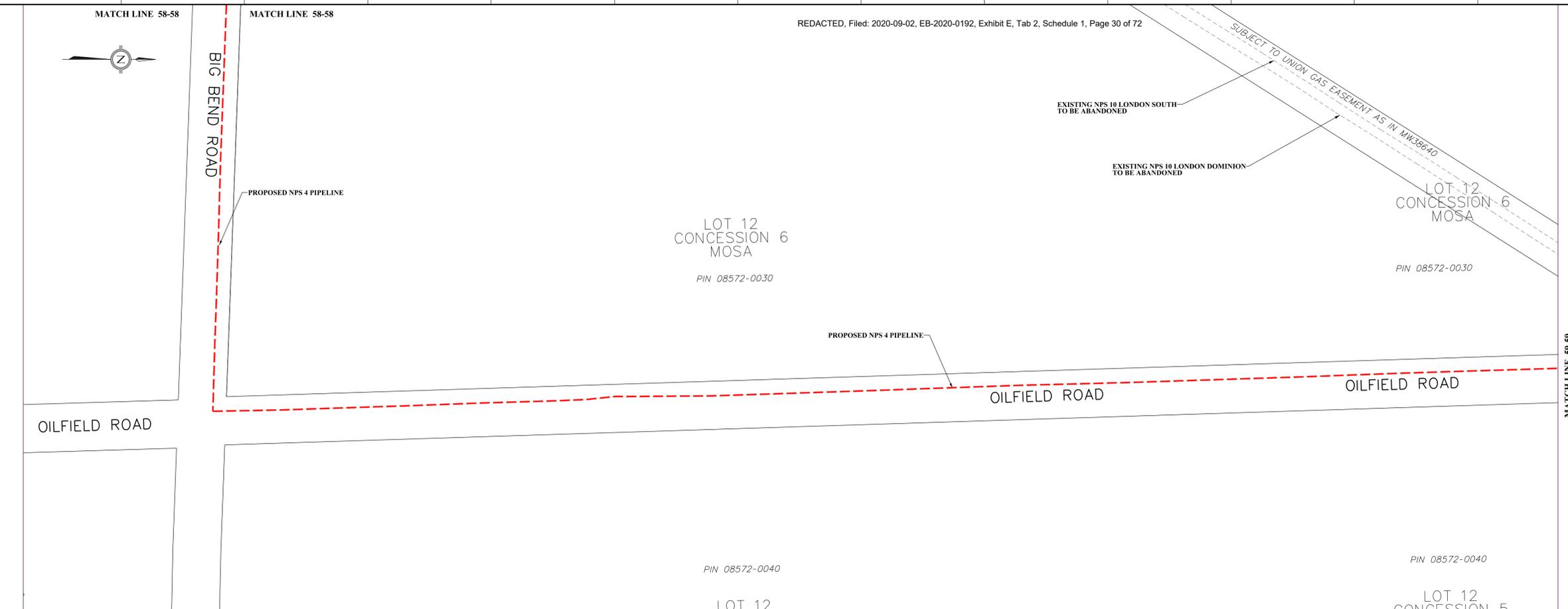
ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

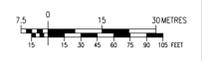
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CHECKED BY: AC	DATE:	CAD CODE:
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SIZE STRIP	SHEET 29 OF 73	DRAWING No.

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

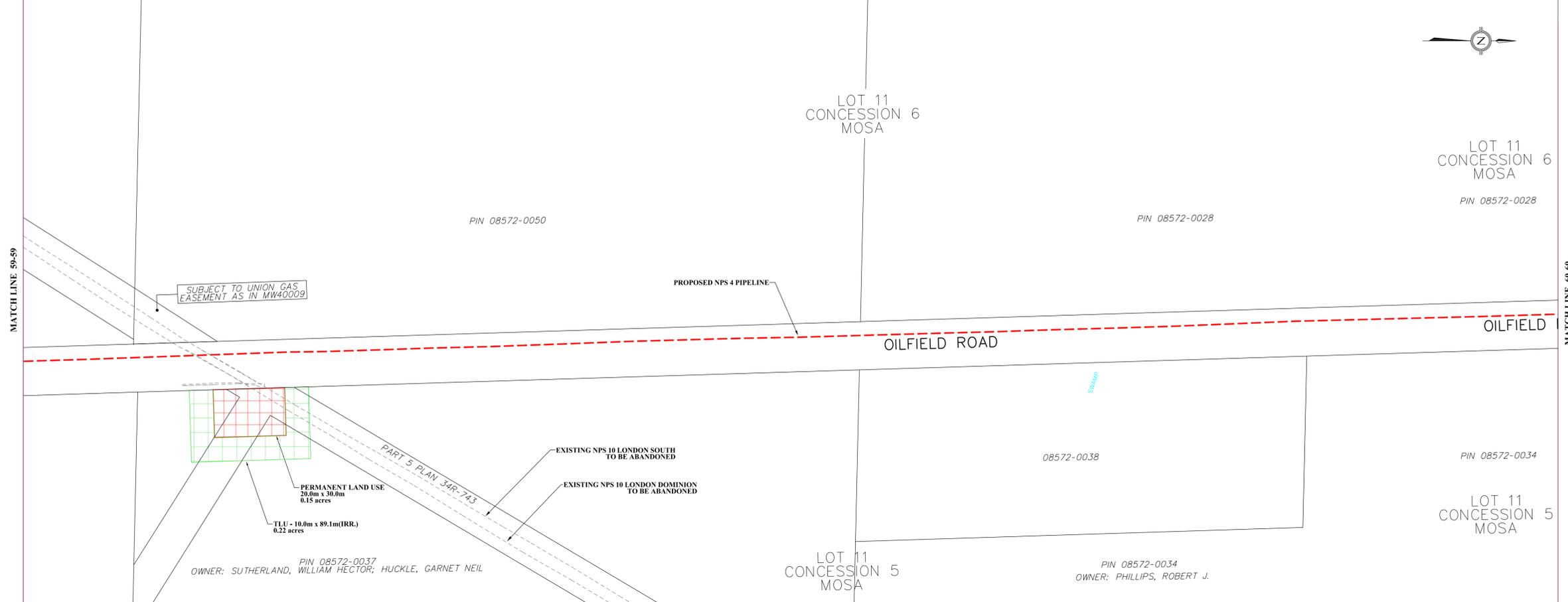


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		NO.	DATE	BY	APPD	REVISIONS	REMARKS
- DESIGNED TO CSA 2662-15							
- DESIGN PRESSURE - 3447 kPa							
ENGINEER:							
LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021							
DRAWN BY	SD	DATE	2020-08-24	PLT SPEC:	1:1000		
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SIZE STRIP	SHEET 30 OF 73	DRAWING No.					



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		NO.	DATE	BY	APPD	REVISIONS	REMARKS
- DESIGNED TO CSA 2662-15							
- DESIGN PRESSURE - 3447 kPa							
ENGINEER:							
LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021							
DRAWN BY	SD	DATE	2020-08-24	PLT SPEC:	1:1000		
CHECKED BY	AC	DATE		CAD CODE:			
APPROVED BY		DATE		FILE REVISION DATE			
SIZE STRIP	SHEET 30 OF 73	DRAWING No.					

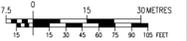


LOT 10
CONCESSION 6
MOSA
PIN 08572-0024

PIN 08572-0034
LOT 10
CONCESSION 5
MOSA

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA Z662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

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SIZE STRIP	SHEET 31 OF 73	DRAWING No.
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PROPOSED NPS 4 PIPELINE

OILFIELD ROAD

MATCH LINE 60-60

MATCH LINE 61-61

LOT 9
CONCESSION 5
PIN 08572-0051

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



PROPOSED NPS 4 PIPELINE

PROPOSED HDD NPS 4 PIPELINE

OILFIELD ROAD

MATCH LINE 61-61

PRATT SIDING

MOSA

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA Z662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

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SIZE STRIP	SHEET 31 OF 73	DRAWING No.
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A B C D E F G H J K L M N O P Q

LOT 8
CONCESSION 5
MOSA

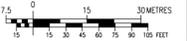
PIN 08571-0050
OWNER: MCLEAN, VIRGINIA, MILDRED ELLEN;
MCLEAN, MALCOLM ARCHIBALD
LOT 8
CONCESSION 5
MOSA

PIN 08571-0050

PIN 08571-0056

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA Z662-15
- DESIGN PRESSURE = 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

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MATCHLINE G2-G2

MATCHLINE G3-G3

G ROAD

PRATT SIDING ROAD

PRATT

PROPOSED NPS 4 PIPELINE

PROPOSED HDD NPS 4 PIPELINE

PROPOSED NPS 4 PIPELINE

TLU - 30.0m x 30.0m
0.22 acres

TLU - 30.0m x 30.0m
0.22 acres

PIN 08572-0051

LOT 9
CONCESSION 5
MOSA

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

LOT 8
CONCESSION 5
MOSA

PIN 08571-0055

PIN 08571-0056

PIN 08571-0056

PIN 08571-0052

SUBJECT TO UNION GAS EASEMENT OVER
ENTIRETY OF PARCEL AS IN M014758

KNAPDALE DRIVE

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA Z662-15
- DESIGN PRESSURE = 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

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MATCHLINE G3-G3

MATCHLINE G4-G4

SIDING ROAD

PRATT SIDING ROAD

PROPOSED HDD NPS 4 PIPELINE

PROPOSED NPS 4 PIPELINE

PROPOSED NPS 4 PIPELINE

TLU - 30.0m x 30.0m
0.22 acres

TLU - 30.0m x 30.0m
0.22 acres

EXISTING NPS 10 LONDON SOUTH
TO BE ABANDONED

EXISTING NPS 10 LONDON DOMINION
TO BE ABANDONED

PIN 08572-0051

LOT 9
CONCESSION 5
MOSA

EASEMENT AS IN MW43566

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

LOT 8
CONCESSION 4
MOSA
PIN 08570-0001

LOT 8
CONCESSION 4
MOSA
PIN 08570-0001

LOT 8
CONCESSION 4
MOSA



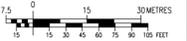
PRATT SIDING ROAD

PRATT SIDING ROAD

PROPOSED NPS 4 PIPELINE

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA Z662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

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PIN 08569-0030
LOT 9
CONCESSION 4
MOSA

PIN 08569-0030
LOT 9
CONCESSION 4
MOSA

LOT 9
CONCESSION 4
MOSA

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



PRATT SIDING ROAD

PRATT SIDING ROAD

PROPOSED NPS 4 PIPELINE

PROPOSED HDD NPS 4 PIPELINE
RAILWAY CROSSING

ACCESS - 13.4m x 40.0m
0.13 acres

ACCESS - 13.4m x 40.0m
0.13 acres

TLU - 16.6m x 40.0m
0.16 acres

TLU - 16.6m x 40.0m
0.16 acres

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA Z662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

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SIZE STRIP	SHEET 33 OF 73	DRAWING No.

PIN 08570-0002

PIN 08570-0002

PIN 08570-0003

PIN 08570-0005

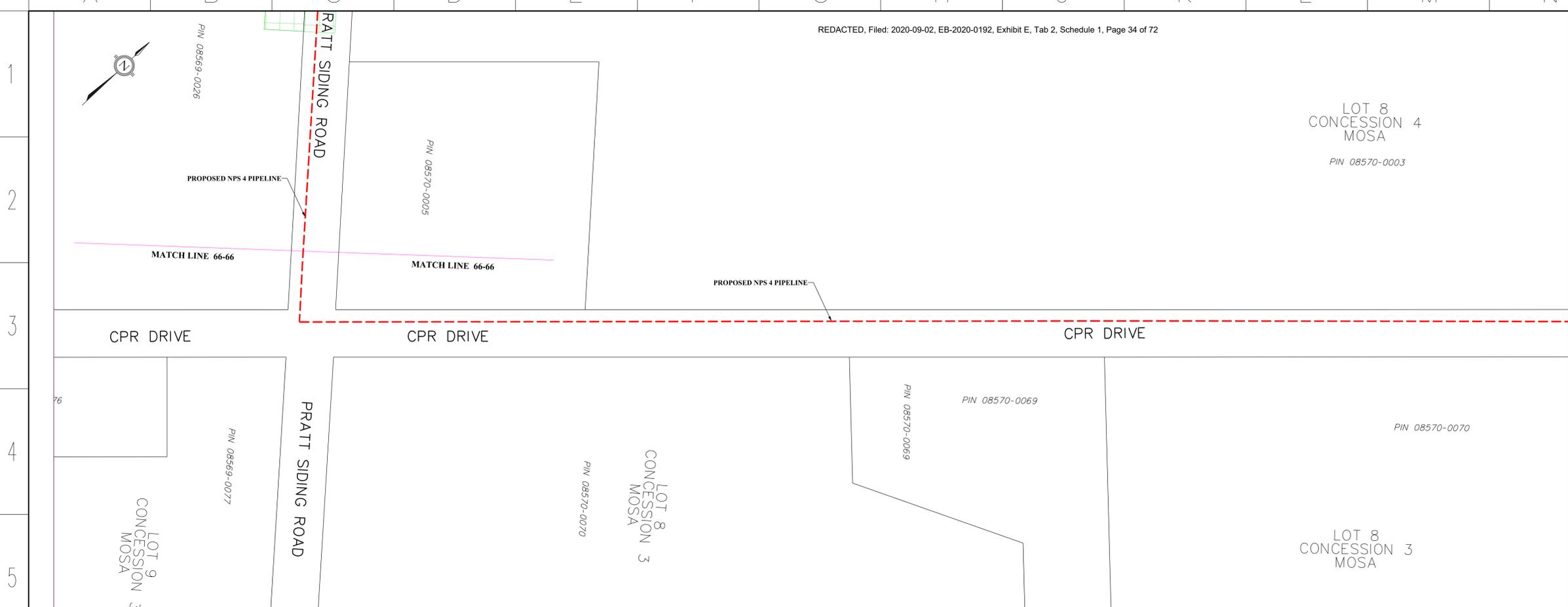
PIN 08569-0027

PIN 08569-0027

PIN 08569-0026

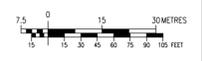
LOT 9
CONCESSION 4
MOSA

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

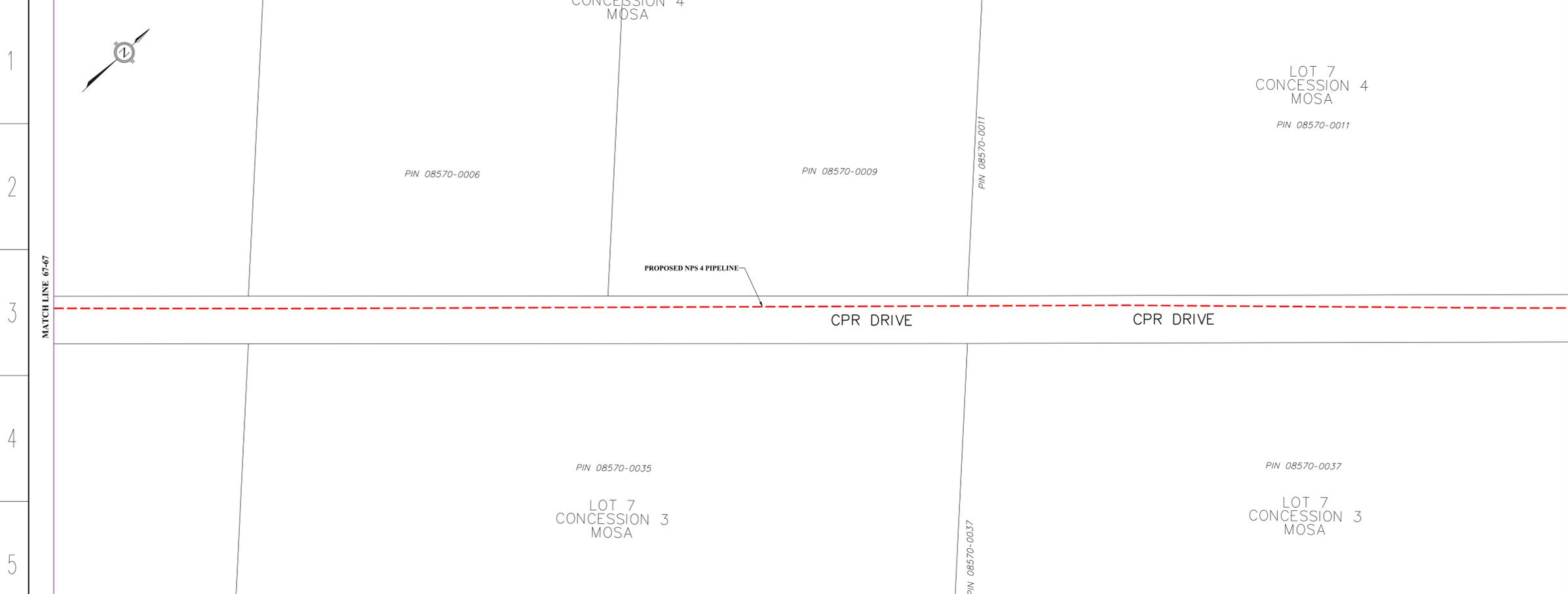
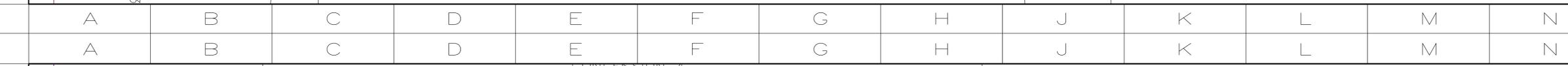


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -

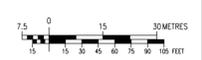


DESIGN PARAMETERS		#	2020-08-24	SD	AC	DEB FILING
-	DESIGNED TO CSA Z662-15	NO.	DATE	BY	APPD	REMARKS
-	DESIGN PRESSURE - 3447 kPa	REVISIONS				
ENGINEER:						
ENBRIDGE Life Takes Energy						
LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021						
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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		#	2020-08-24	SD	AC	DEB FILING
-	DESIGNED TO CSA Z662-15	NO.	DATE	BY	APPD	REMARKS
-	DESIGN PRESSURE - 3447 kPa	REVISIONS				
ENGINEER:						
ENBRIDGE Life Takes Energy						
LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021						
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LOT 6
CONCESSION 4
MOSA
PIN 08570-0016

LOT 6
CONCESSION 4
MOSA
PIN 08570-0016

PROPOSED NPS 4 PIPELINE

CPR DRIVE

CPR DRIVE

PIN 08570-0040

PIN 08570-0040

LOT 6
CONCESSION 3
MOSA

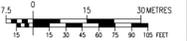
LOT 6

MATCHLINE 68-68

MATCHLINE 69-69

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

DESIGNED TO CSA 2662-15	NO.	2020-08-24	SD	AC	DEB FILING
DESIGN PRESSURE - 3447 kPa	DATE	BY	APPD	REMARKS	

ENGINEER:

REVISIONS



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

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



LOT 5
CONCESSION 4
MOSA
PIN 08570-0021

LOT 5
CONCESSION 4
MOSA
PIN 08570-0021

PROPOSED NPS 4 PIPELINE

CPR DRIVE

PIN 08570-0041

LOT 5
CONCESSION 3
MOSA

LOT 5
CONCESSION 3
MOSA
PIN 08570-0041

MATCHLINE 69-69

MATCHLINE 70-70

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

DESIGNED TO CSA 2662-15	NO.	2020-08-24	SD	AC	DEB FILING
DESIGN PRESSURE - 3447 kPa	DATE	BY	APPD	REMARKS	

ENGINEER:

REVISIONS



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

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APPROVED BY		DATE		FILE REVISION DATE	
SIZE STRIP	SHEET 35 OF 73	DRAWING No.			

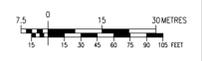
A B C D E F G H J K L M N O P Q
A B C D E F G H J K L M N O P Q

MATCHLINE 70-70

MATCHLINE 71-71

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

DESIGNED TO CSA Z662-15
 DESIGN PRESSURE = 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:

SIZE STRIP 36 OF 73 DRAWING No.

MATCHLINE 71-71

MATCHLINE 72-72

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

DESIGNED TO CSA Z662-15
 DESIGN PRESSURE = 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

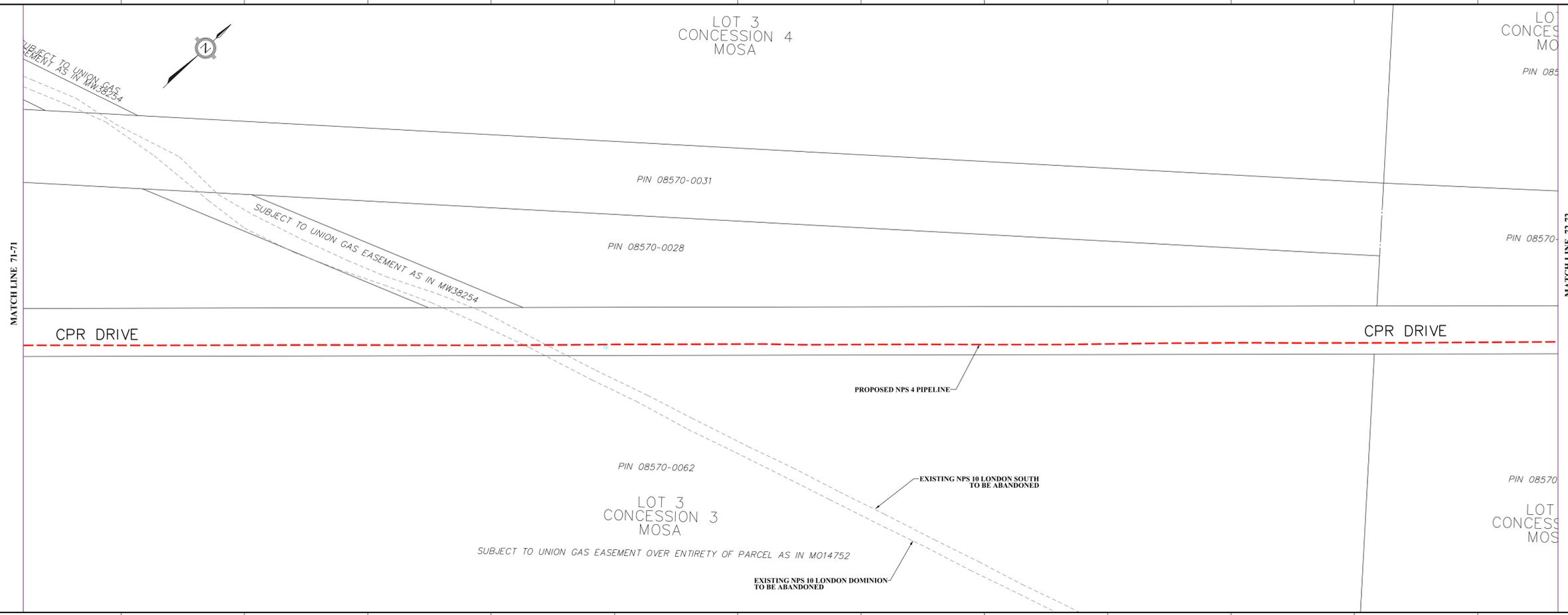
ENGINEER:

ENBRIDGE
Life Takes Energy

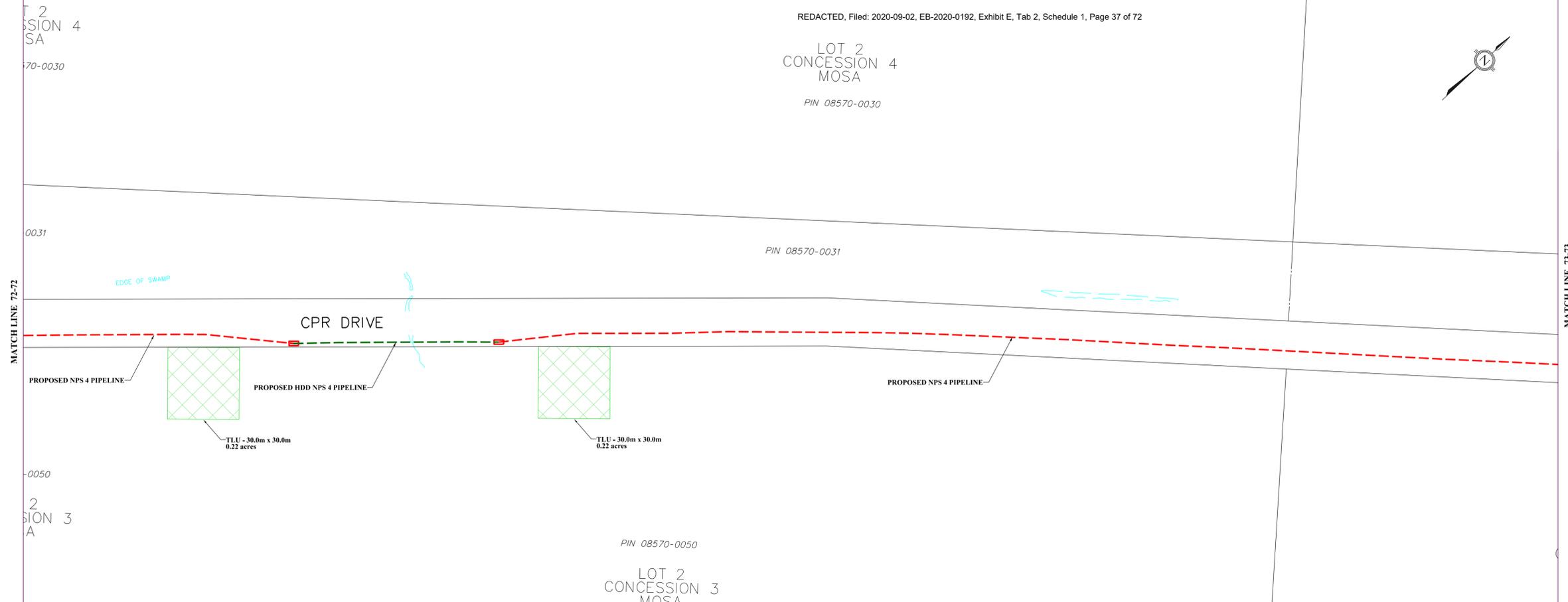
LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:

SIZE STRIP 36 OF 73 DRAWING No.



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



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -

DESIGN PARAMETERS

NO.	2020-08-24	SD	AC	DEB FILING
DATE	BY	APPD	REMARKS	

ENGINEER:

ENBRIDGE
Life Takes Energy

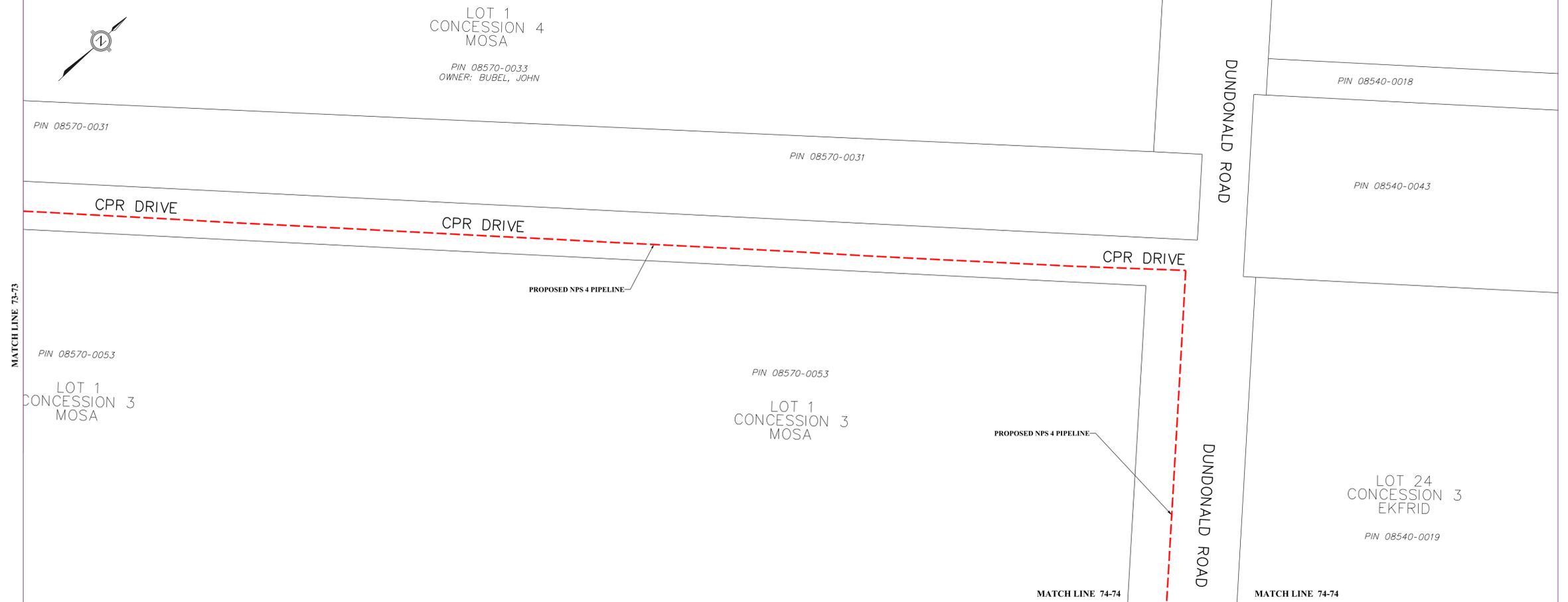
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MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

DRAWN BY	SD	DATE	2020-08-24	PLOT SPEC:	1:1000
CHECKED BY	AC	DATE		CAD CODE:	
APPROVED BY		DATE		FILE REVISION DATE	

SIZE STRIP 37 OF 73 DRAWING No.

7.5 0 15 30 45 60 75 90 105 FEET

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



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -

DESIGN PARAMETERS

NO.	2020-08-24	SD	AC	DEB FILING
DATE	BY	APPD	REMARKS	

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

DRAWN BY	SD	DATE	2020-08-24	PLOT SPEC:	1:1000
CHECKED BY	AC	DATE		CAD CODE:	
APPROVED BY		DATE		FILE REVISION DATE	

SIZE STRIP 37 OF 73 DRAWING No.

7.5 0 15 30 45 60 75 90 105 FEET

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

LOT 24
CONCESSION 3
EKFRID
PIN 08540-0019

TLU - 30.0m x 111.5m(IRR)
0.80 acres

MATCH LINE 75-75

MATCH LINE 75-75

FALCONBRIDGE DRIVE

SUBJECT TO UNION GAS EA

DUNDONALD ROAD

DUNDONALD ROAD

DUNDONALD ROAD

MATCH LINE 74-74

PROPOSED NPS 4 PIPELINE

PROPOSED HDD NPS 4 PIPELINE

TRANS STATION
GLENCOE GATE
11L-401

PERMANENT LAND USE
20.0m x 30.0
0.30 acres

TLU - 30.0m x 40.0m
0.30 acres

PIN 08570-0053

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN 900217

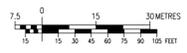
EXISTING NPS 10 LONDON SOUTH
TO BE ABANDONED

EXISTING NPS 10 LONDON DOMINION
TO BE ABANDONED

SUBJECT TO UNION GAS EASEMENT

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

DRAWN BY: SD DATE: 2020-08-24 PLOT SPEC: 1:1000

CHECKED BY: AC DATE: CAD CODE: FILE REVISION DATE

APPROVED BY: DATE: SHEET: 38 OF 73 DRAWING No.

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

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

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

LOT 24
CONCESSION 3
EKFRID
PIN 08540-0019

PROPOSED NPS 4 PIPELINE

FALCONBRIDGE DRIVE

EXISTING NPS 10 LONDON SOUTH
TO BE ABANDONED

EXISTING NPS 10 LONDON DOMINION
TO BE ABANDONED

AS EASEMENT AS IN EK16633 AS PARTIALLY SURRENDERED BY MW49709

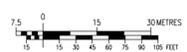
SUBJECT TO UNION GAS EASEMENT AS IN EK16633 AS PARTIALLY
SURRENDERED BY MW49709

LOT 24
CONCESSION 2
EKFRID
PIN 08544-0001

SUBJECT TO UNION GAS EASEMENT

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

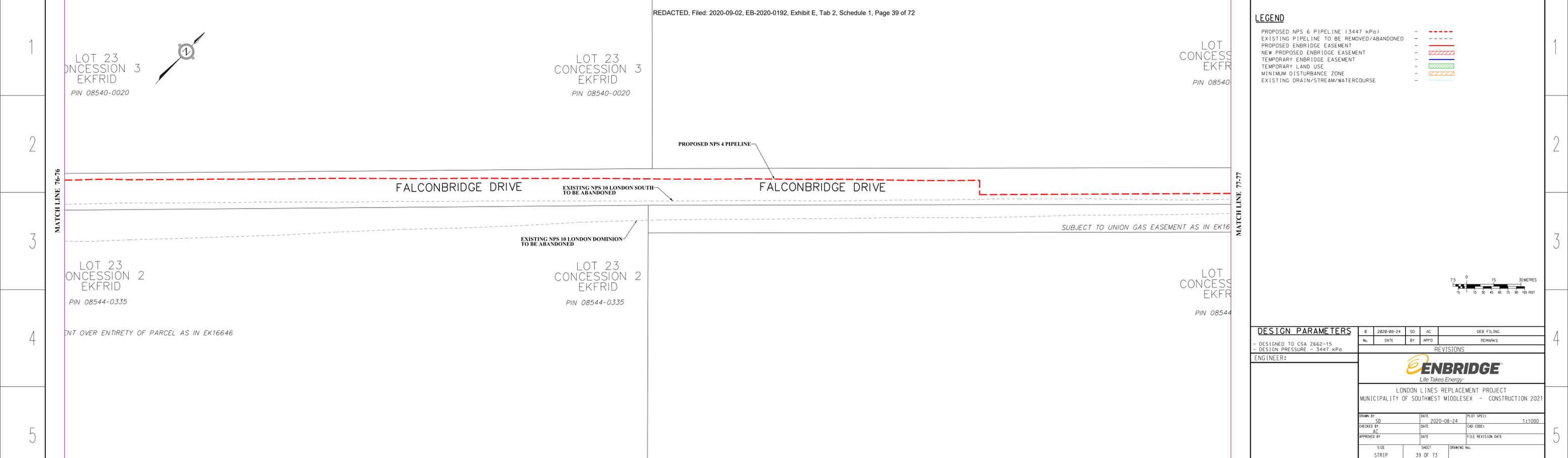
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CHECKED BY: AC DATE: CAD CODE: FILE REVISION DATE

APPROVED BY: DATE: SHEET: 38 OF 73 DRAWING No.

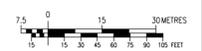
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A B C D E F G H J K L M N O P Q



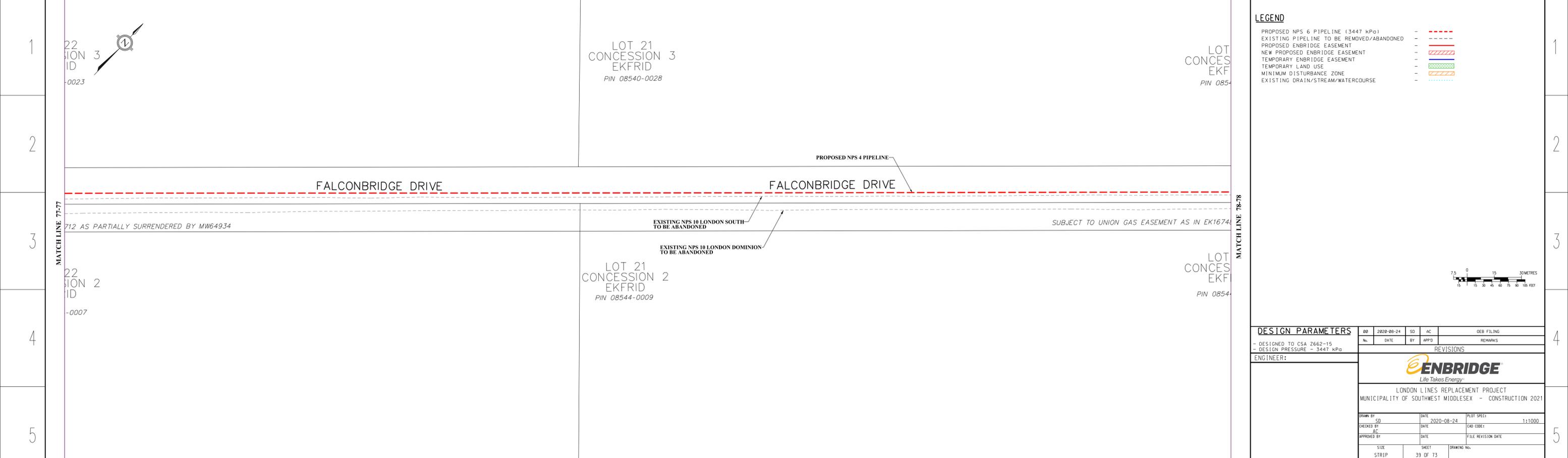
LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		NO.	DATE	BY	APPD	REVISIONS	REMARKS				
- DESIGNED TO CSA 2662-15											
- DESIGN PRESSURE - 3447 kPa											
ENGINEER:		<p>LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021</p>									
DRAWN BY	SD							DATE	2020-08-24	PLT SPEC:	1:1000
CHECKED BY	AC							DATE		CAD CODE:	
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SIZE STRIP	SHEET 39 OF 73	DRAWING No.									

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



LEGEND

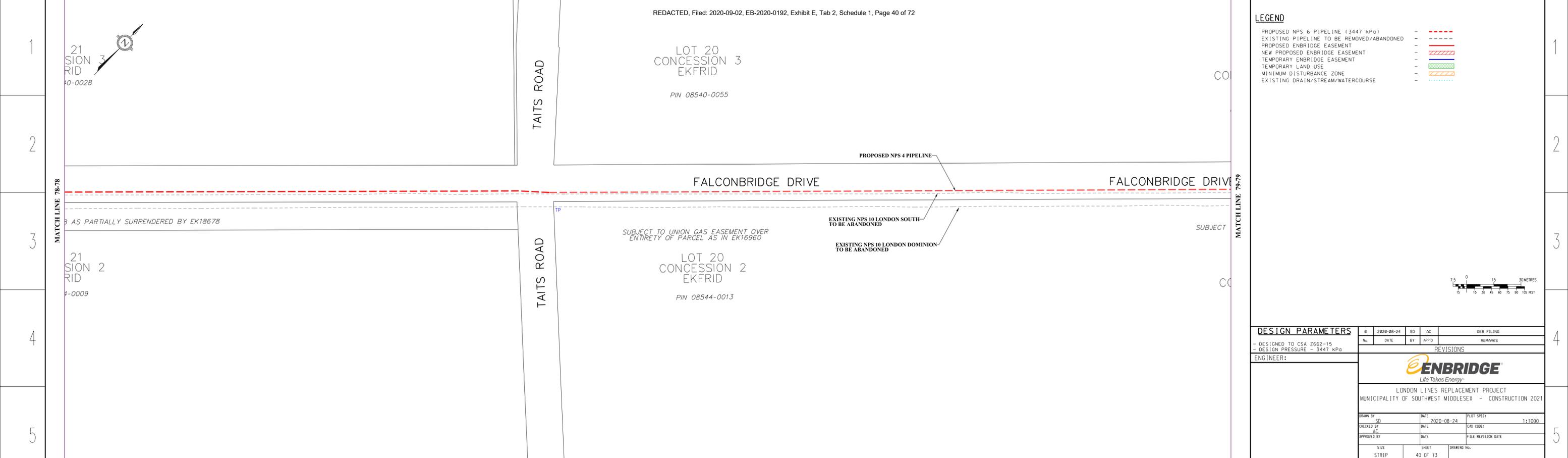
- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



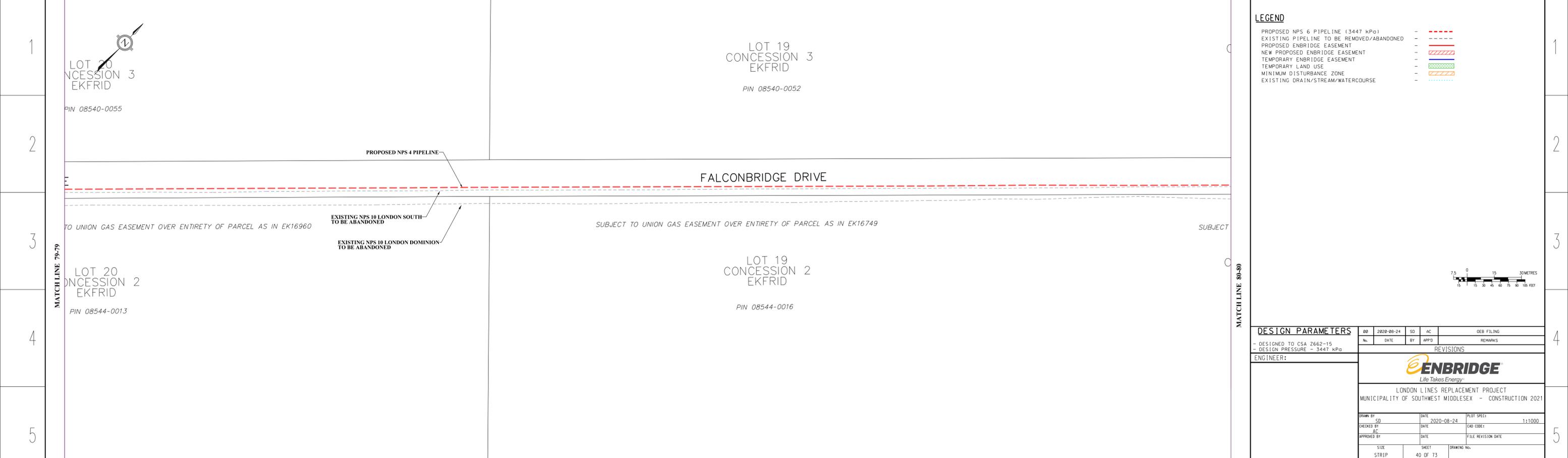
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- DESIGNED TO CSA 2662-15											
- DESIGN PRESSURE - 3447 kPa											
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DRAWN BY	SD							DATE	2020-08-24	PLT SPEC:	1:1000
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SIZE STRIP	SHEET 39 OF 73	DRAWING No.									

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

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



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



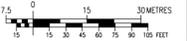
A B C D E F G H J K L M N O P Q

LOT 18
CONCESSION 3
EKFRID



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLT SPEC: 1:1000
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APPROVED BY:	DATE:	FILE REVISION DATE:
SIZE STRIP	SHEET 41 OF 73	DRAWING No.:

LOT 19
CONCESSION 3
EKFRID

PIN 08540-0052

PIN 08540-0036

PIN 08540-0037

PROPOSED HDD NPS 4 PIPELINE

PROPOSED HDD NPS 4 PIPELINE

FALCONBRIDGE DRIVE

FALCONBRIDGE DRIVE

EXISTING NPS 10 LONDON SOUTH
TO BE ABANDONED
TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN EK16749

SUBJECT TO UNION GAS EASEMENT AS IN EK16743 AS PARTIALLY SURRENDERED

BY MW54069
EXISTING NPS 10 LONDON SOUTH
TO BE ABANDONED
EXISTING NPS 10 LONDON DOMINION
TO BE ABANDONED

LOT 19
CONCESSION 2
EKFRID

PIN 08544-0016

TLU - 30.0m x 30.0m
0.22 acres

TLU - 30.0m x 30.0m
0.22 acres

PIN 08544-0330

PIN 08544-0330

PIN 08544-0329

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LOT 18
CONCESSION 3
EKFRID

PIN 08540-0037

LOT 17
CONCESSION 3
EKFRID

PIN 08540-0041

PROPOSED NPS 4 PIPELINE

FALCONBRIDGE DRIVE

S EASEMENT AS IN EK16743 AS PARTIALLY SURRENDERED BY MW54069

EXISTING NPS 10 LONDON SOUTH
TO BE ABANDONED
EXISTING NPS 10 LONDON DOMINION
TO BE ABANDONED

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN EK16635

LOT 18
CONCESSION 2
EKFRID

PIN 08544-0330

PIN 08544-0022

LOT 17
CONCESSION 2
EKFRID

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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

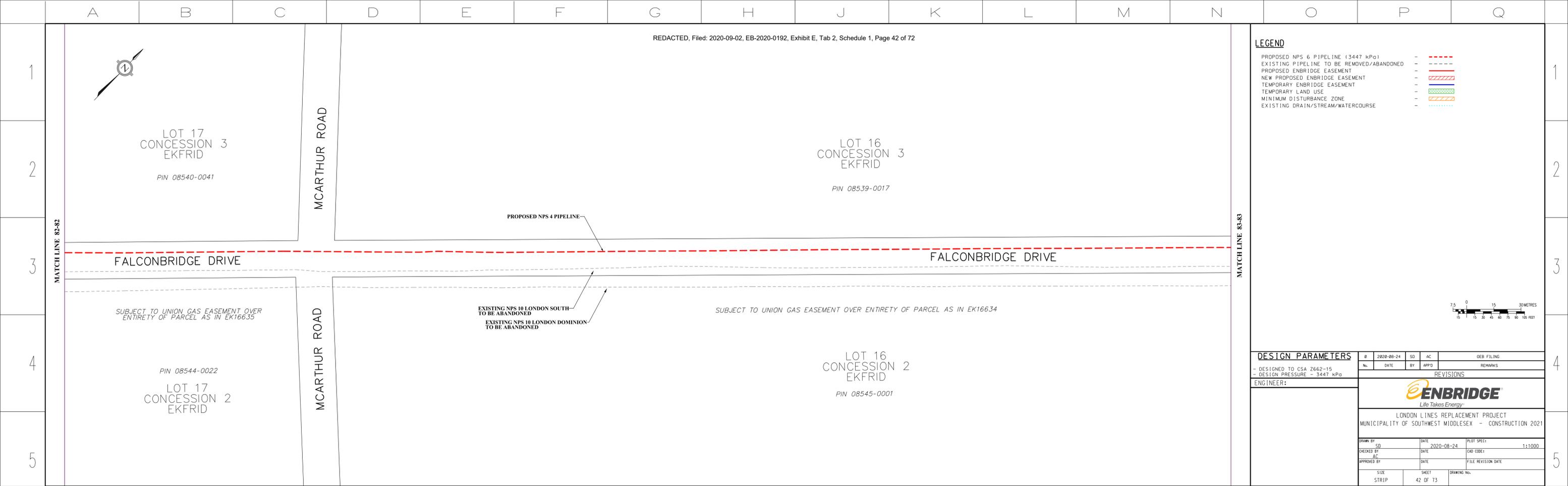
NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



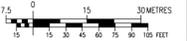
LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

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CHECKED BY: AC	DATE: 2020-08-24	CAD CODE: 1:1000
APPROVED BY:	DATE:	FILE REVISION DATE:
SIZE STRIP	SHEET 41 OF 73	DRAWING No.:



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REMARKS

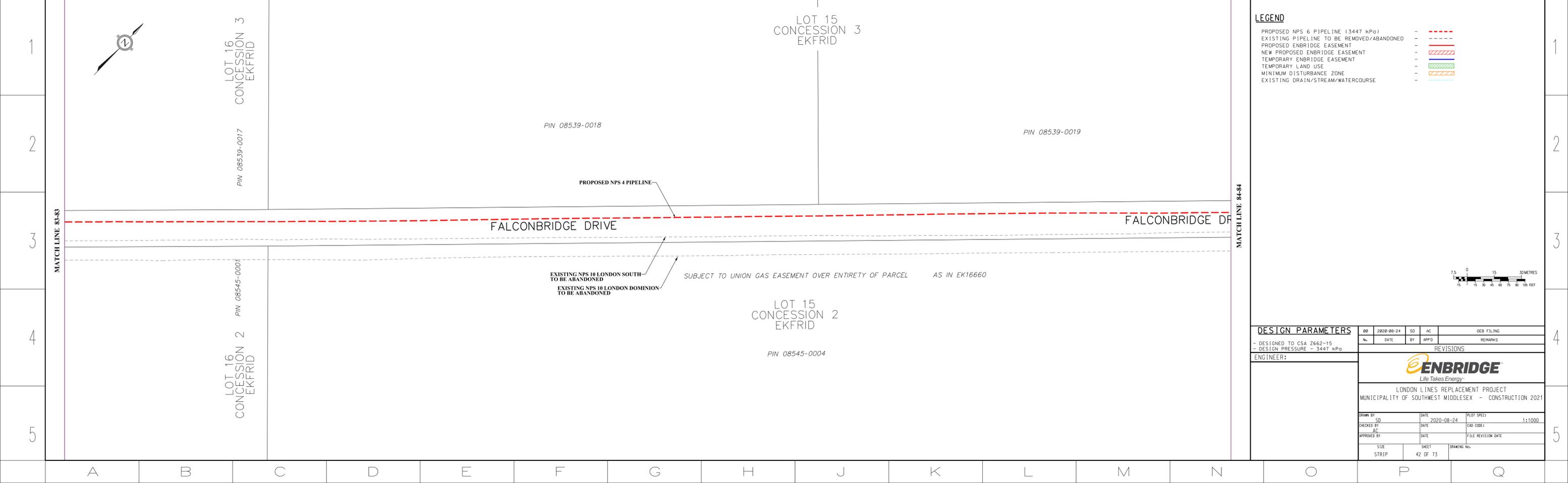
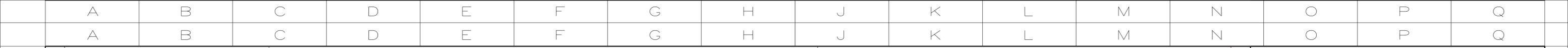
ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:

SIZE STRIP	SHEET 42 OF 73	DRAWING No.
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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REMARKS

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:

SIZE STRIP	SHEET 42 OF 73	DRAWING No.
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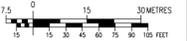


LOT 14
CONCESSION 3
EKFRID

PIN 08539-0021

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

DESIGNED TO CSA 2662-15
DESIGN PRESSURE = 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:

SIZE STRIP	SHEET 43 OF 73	DRAWING No.
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LOT 14
CONCESSION 3
EKFRID

PIN 08539-0021

PROPOSED NPS 4 PIPELINE

FALCONBRIDGE DRIVE

EXISTING NPS 10 LONDON SOUTH
TO BE ABANDONED
EXISTING NPS 10 LONDON DOMINION
TO BE ABANDONED

PIN 08545-0274

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN EK16637

PIN 08545-0006

TLU - 30.0m x 30.0m
0.22 acres

SUBJECT TO UNION GAS EASEMENT AS IN EK16636

LOT 14
CONCESSION 2
EKFRID

PIN 08545-0275

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN EK16636

LOT 14
CONCESSION 2
EKFRID

LOT 13
CONCESSION 3
EKFRID

PIN 08539-0080

LOT 13
CONCESSION 3
EKFRID

PIN 08539-0080

PROPOSED HDD NPS 4 PIPELINE

PROPOSED NPS 4 PIPELINE

FALCONBRIDGE DRIVE

FALCONBRIDGE DRIVE

EXISTING NPS 10 LONDON SOUTH
TO BE ABANDONED
EXISTING NPS 10 LONDON DOMINION
TO BE ABANDONED

PIN 08545-0041

SUBJECT TO UNION GAS EASEMENT AS IN EK16638 AS PARTIALLY SURRENDERED BY MW50589

TLU - 30.0m x 30.0m
0.22 acres

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN EK16640

PIN 08545-0042

TLU - 30.0m x 57.0m(IRR)
0.57 acres

PIN 08545-0041

SUBJECT TO UNION GAS EASEMENT AS IN EK16638 AS PARTIALLY SURRENDERED BY MW50589

LOT 13
CONCESSION 2
EKFRID

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

DESIGNED TO CSA 2662-15
DESIGN PRESSURE = 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

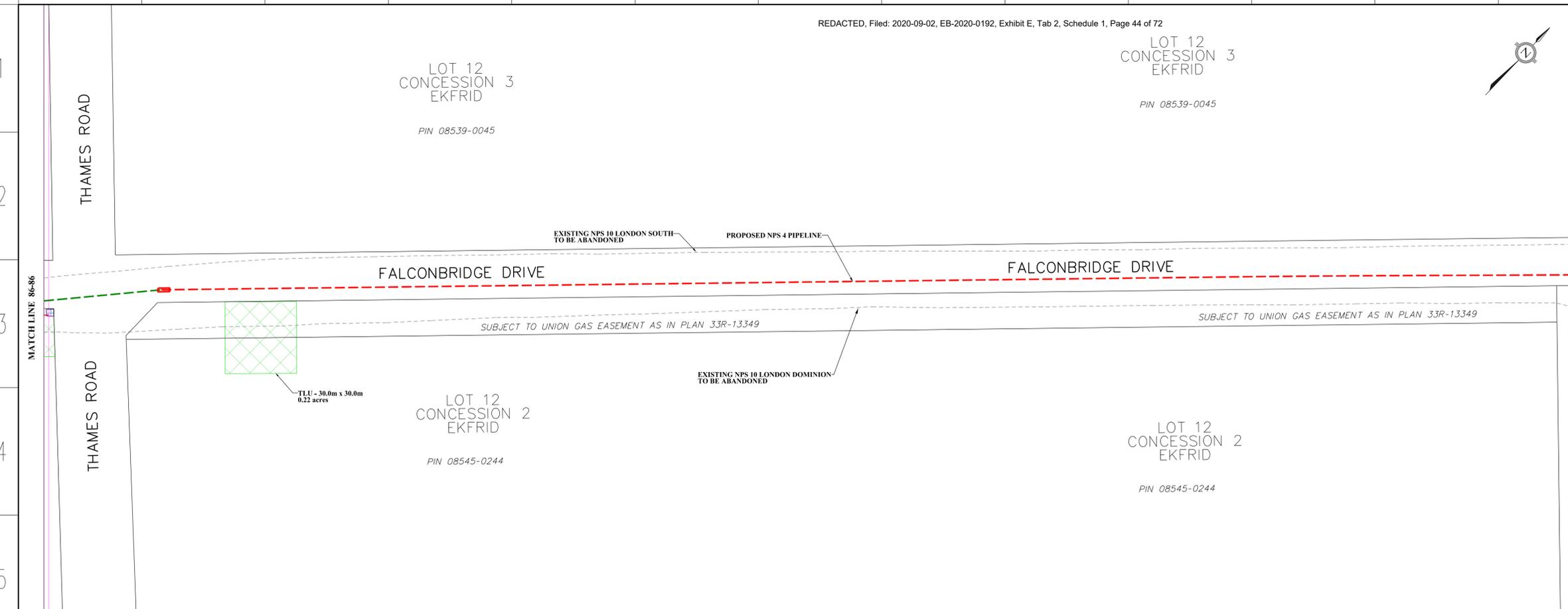
ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

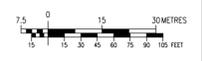
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CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:

SIZE STRIP	SHEET 43 OF 73	DRAWING No.
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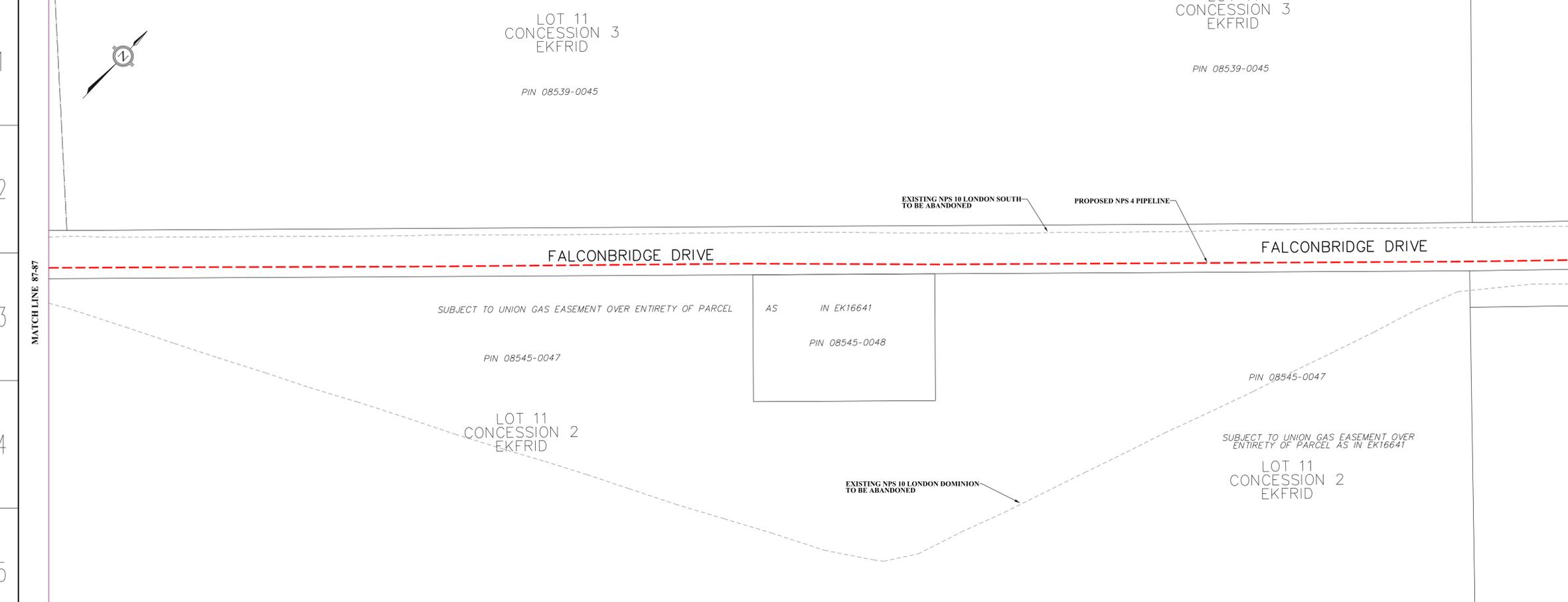
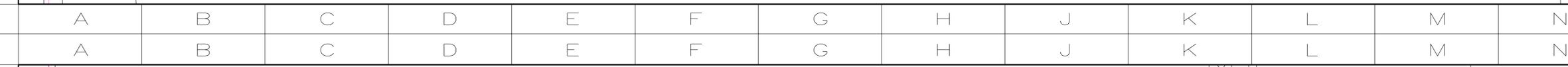


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS				NO.		2020-08-24		SD		AC		DEB FILING	
- DESIGNED TO CSA 2662-15				DATE		BY		APPD		REMARKS			
- DESIGN PRESSURE - 3447 kPa													
ENGINEER:				<p>LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021</p>									
DRAWN BY: SD													
CHECKED BY: AC													
APPROVED BY:													
DATE: 2020-08-24		PLOT SPEC: 1:1000		DATE: 2020-08-24		CAD CODE:		FILE REVISION DATE					
SIZE STRIP		SHEET 44 OF 73		DRAWING NO.									



LEGEND

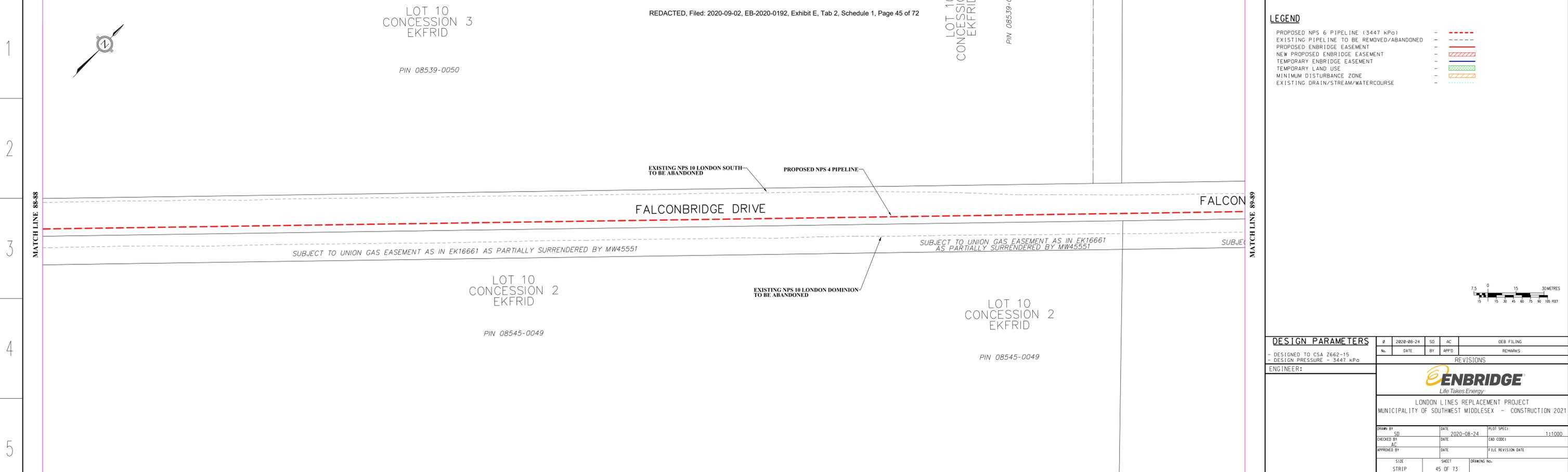
- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS				NO.		2020-08-24		SD		AC		DEB FILING	
- DESIGNED TO CSA 2662-15				DATE		BY		APPD		REMARKS			
- DESIGN PRESSURE - 3447 kPa													
ENGINEER:				<p>LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021</p>									
DRAWN BY: SD													
CHECKED BY: AC													
APPROVED BY:													
DATE: 2020-08-24		PLOT SPEC: 1:1000		DATE: 2020-08-24		CAD CODE:		FILE REVISION DATE					
SIZE STRIP		SHEET 44 OF 73		DRAWING NO.									

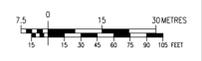


A B C D E F G H J K L M N O P Q



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

NO.	2020-08-24	SD	AC	DEB FILING
DATE	BY	APPD	REMARKS	

DESIGNED TO CSA Z662-15
DESIGN PRESSURE - 3447 kPa

ENGINEER:

REVISIONS

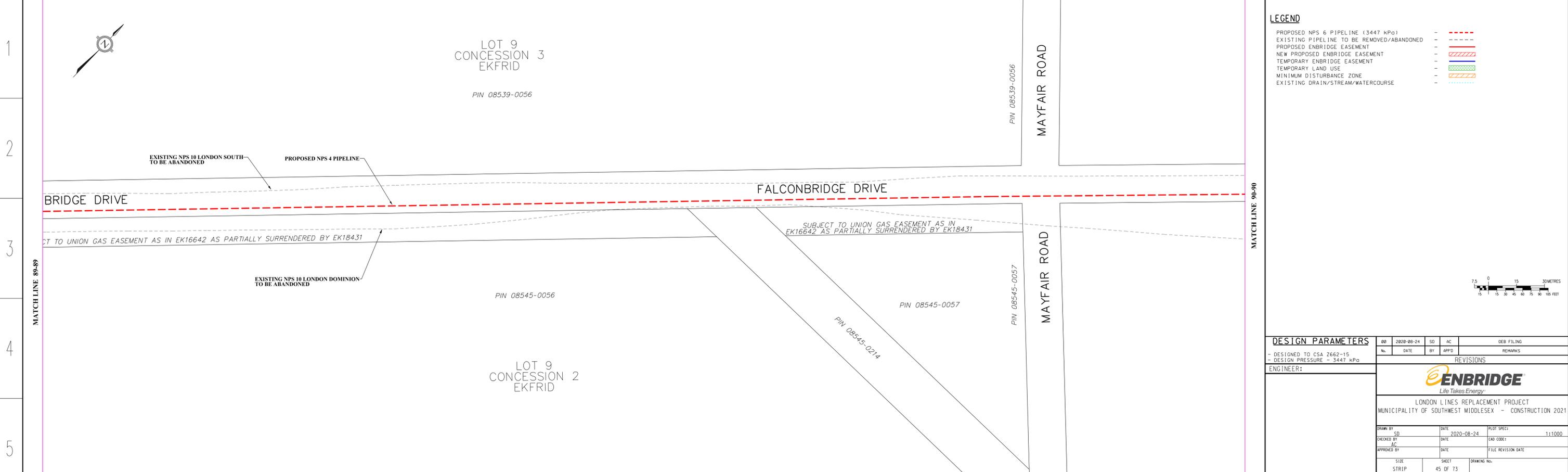
ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

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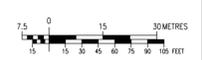
SIZE	SHEET	DRAWING No.
STRIP	45 OF 73	

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



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
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- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
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DESIGN PARAMETERS

NO.	2020-08-24	SD	AC	DEB FILING
DATE	BY	APPD	REMARKS	

DESIGNED TO CSA Z662-15
DESIGN PRESSURE - 3447 kPa

ENGINEER:

REVISIONS

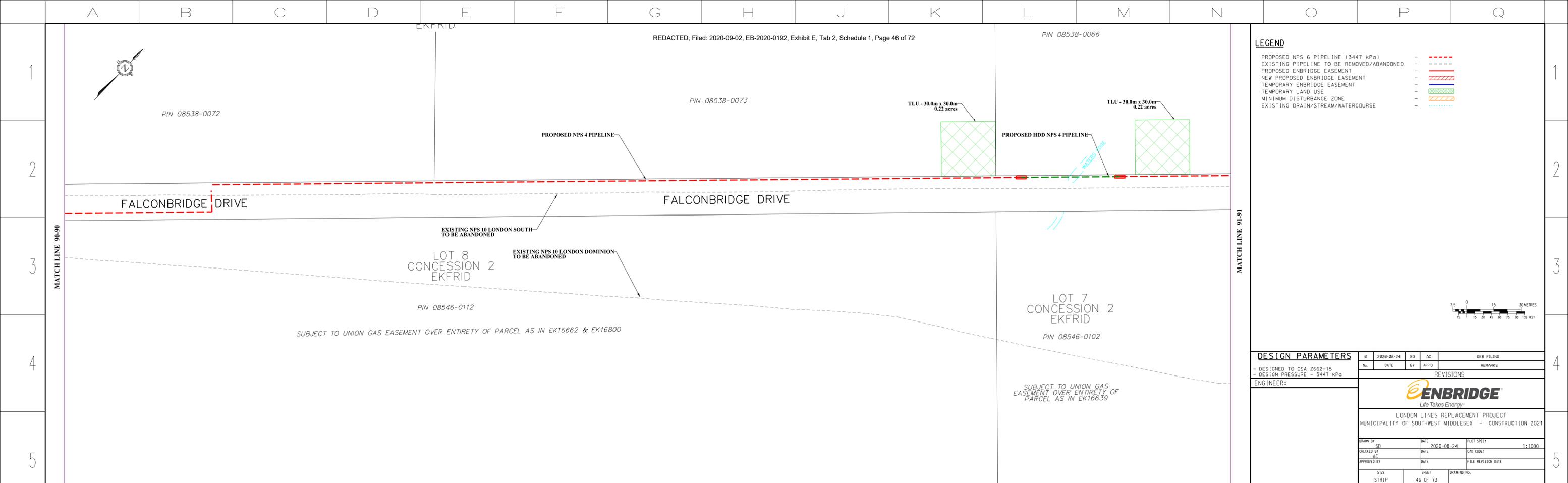
ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

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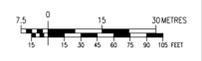
SIZE	SHEET	DRAWING No.
STRIP	45 OF 73	

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

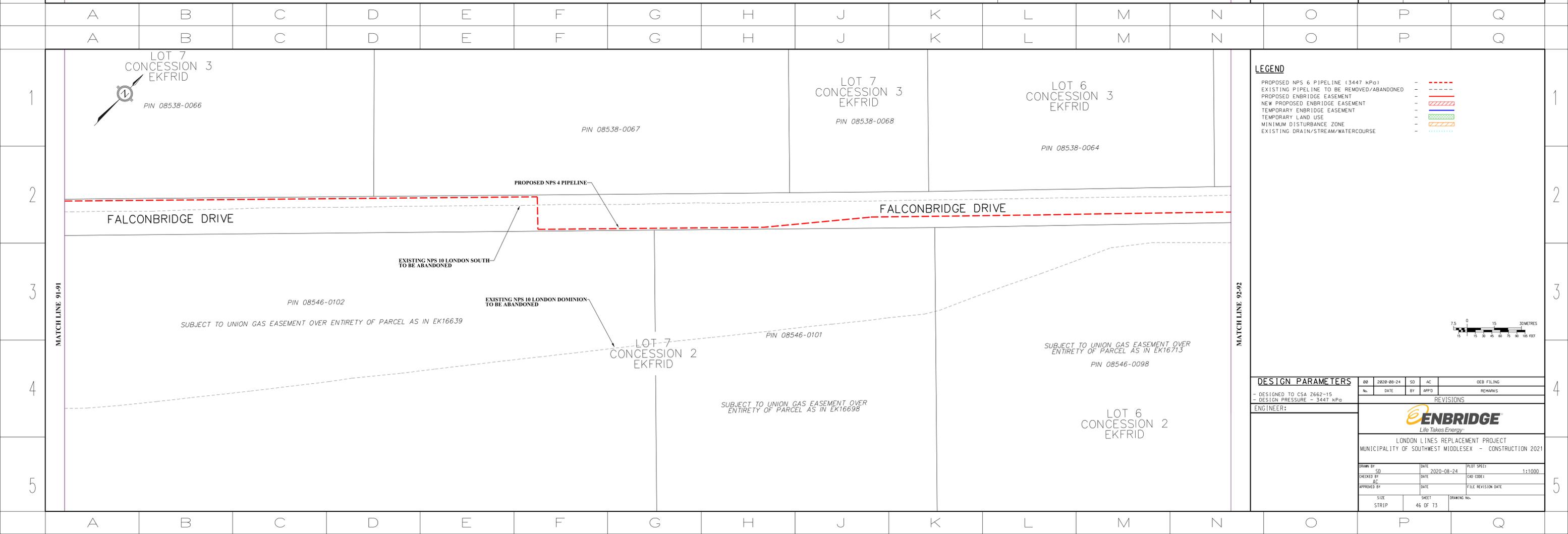


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
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- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS				REVISIONS	
DESIGNED TO CSA 2662-15				DEB FILING	
DESIGN PRESSURE - 3447 kPa				REMARKS	
ENGINEER:					
LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021					
DRAWN BY	DATE	DATE	DATE	DATE	DATE
SD	2020-08-24	2020-08-24	2020-08-24	2020-08-24	2020-08-24
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APPROVED BY	AC	AC	AC	AC	AC
SIZE	SHEET	DRAWING No.			
STRIP	46 OF 73				

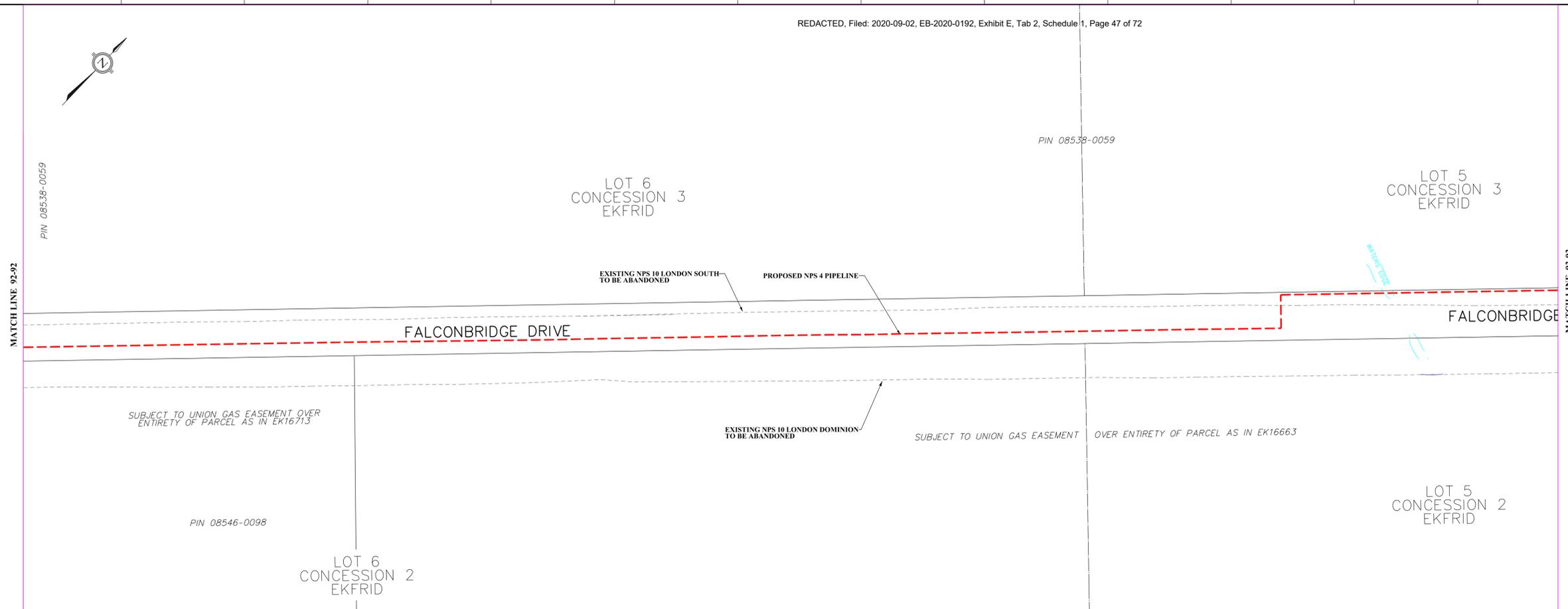


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
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- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -

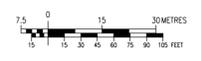


DESIGN PARAMETERS				REVISIONS	
DESIGNED TO CSA 2662-15				DEB FILING	
DESIGN PRESSURE - 3447 kPa				REMARKS	
ENGINEER:					
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SIZE	SHEET	DRAWING No.			
STRIP	46 OF 73				

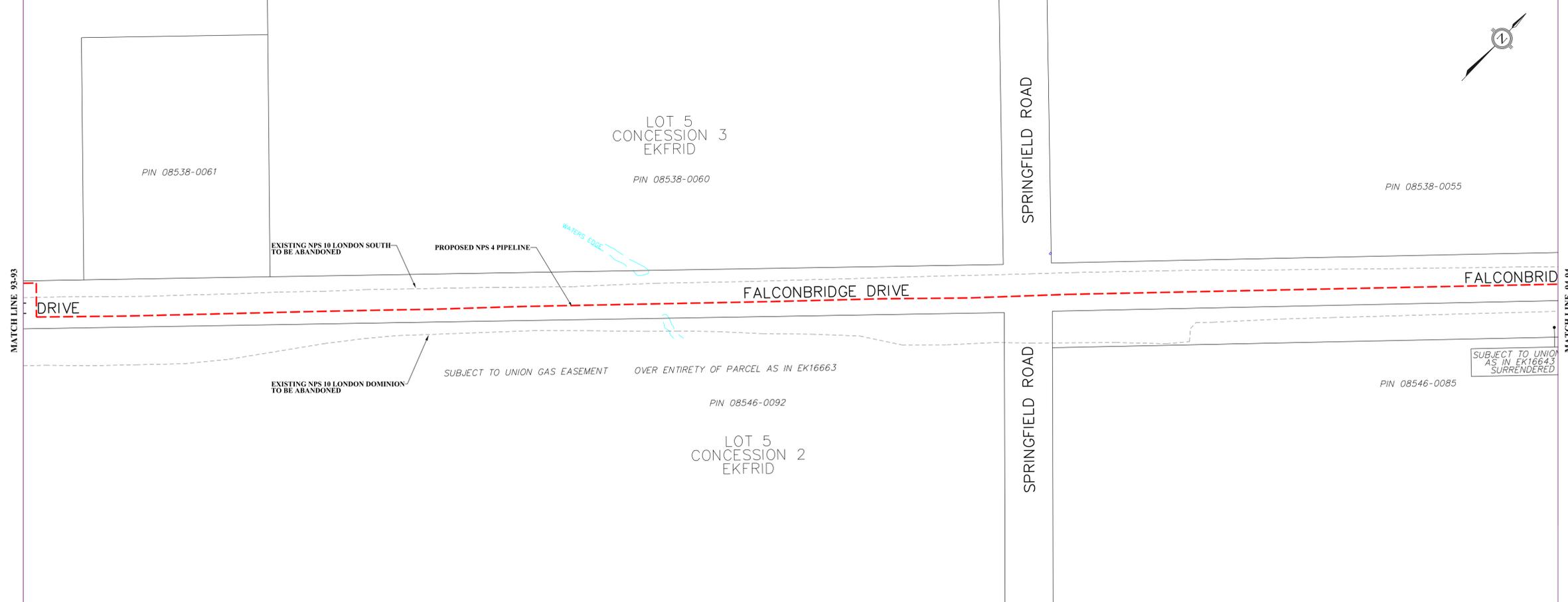
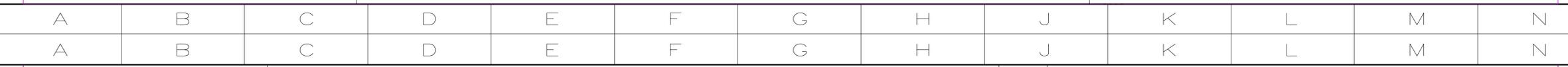


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
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- MINIMUM DISTURBANCE ZONE - - - - -
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DESIGN PARAMETERS		NO	DATE	BY	APPD	REVISIONS
DESIGNED TO CSA 2662-15		08	2020-08-24	SD	AC	DEB FILING
DESIGN PRESSURE - 3447 kPa						REMARKS
ENGINEER:						
LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021						
DRAWN BY	SD	DATE	2020-08-24	PLT SPEC:	1:1000	
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APPROVED BY		DATE		FILE REVISION DATE		
SIZE STRIP	SHEET 47 OF 73	DRAWING No.				



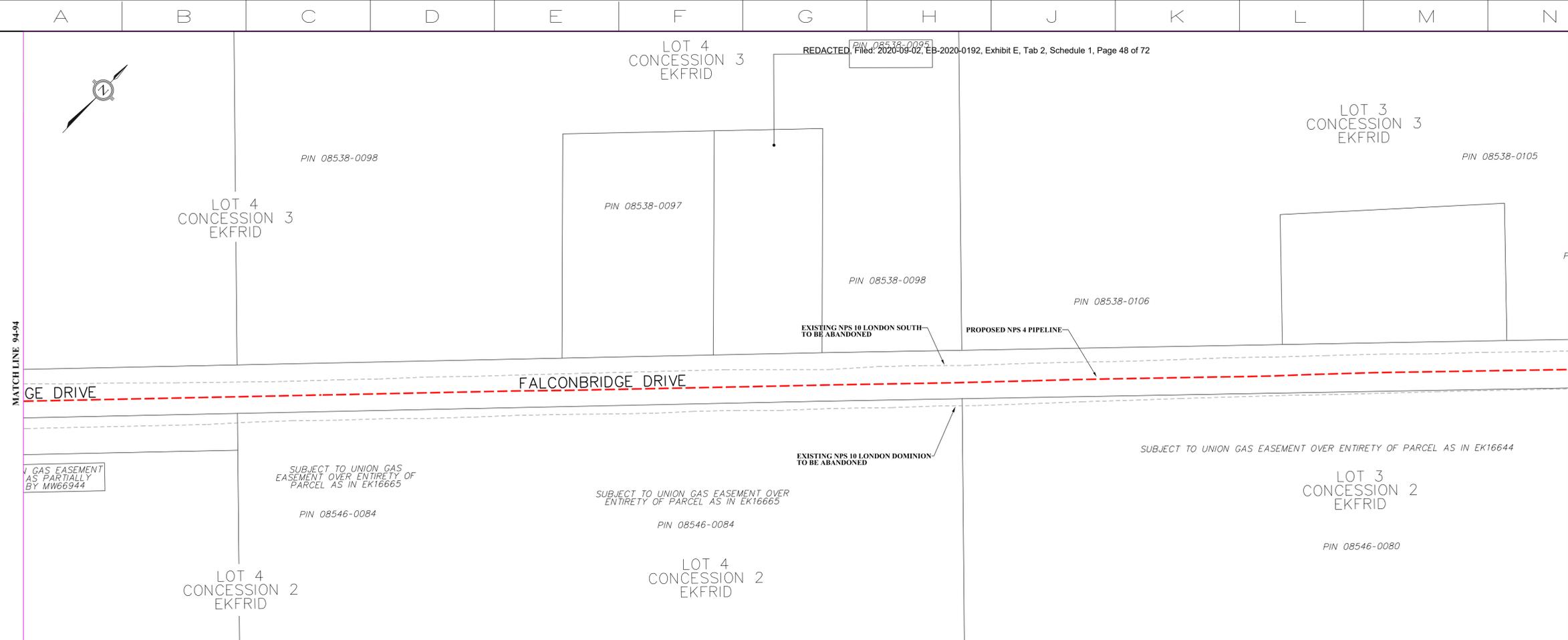
LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
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- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



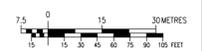
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DESIGNED TO CSA 2662-15		08	2020-08-24	SD	AC	DEB FILING
DESIGN PRESSURE - 3447 kPa						REMARKS
ENGINEER:						
LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021						
DRAWN BY	SD	DATE	2020-08-24	PLT SPEC:	1:1000	
CHECKED BY	AC	DATE		CAD CODE:		
APPROVED BY		DATE		FILE REVISION DATE		
SIZE STRIP	SHEET 47 OF 73	DRAWING No.				





LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

#	2828-89-24	SD	AC	DEB FILING
NO.	DATE	BY	APPD	REMARKS

DESIGNED TO CSA 2662-15
 DESIGN PRESSURE - 3447 kPa

REVISIONS

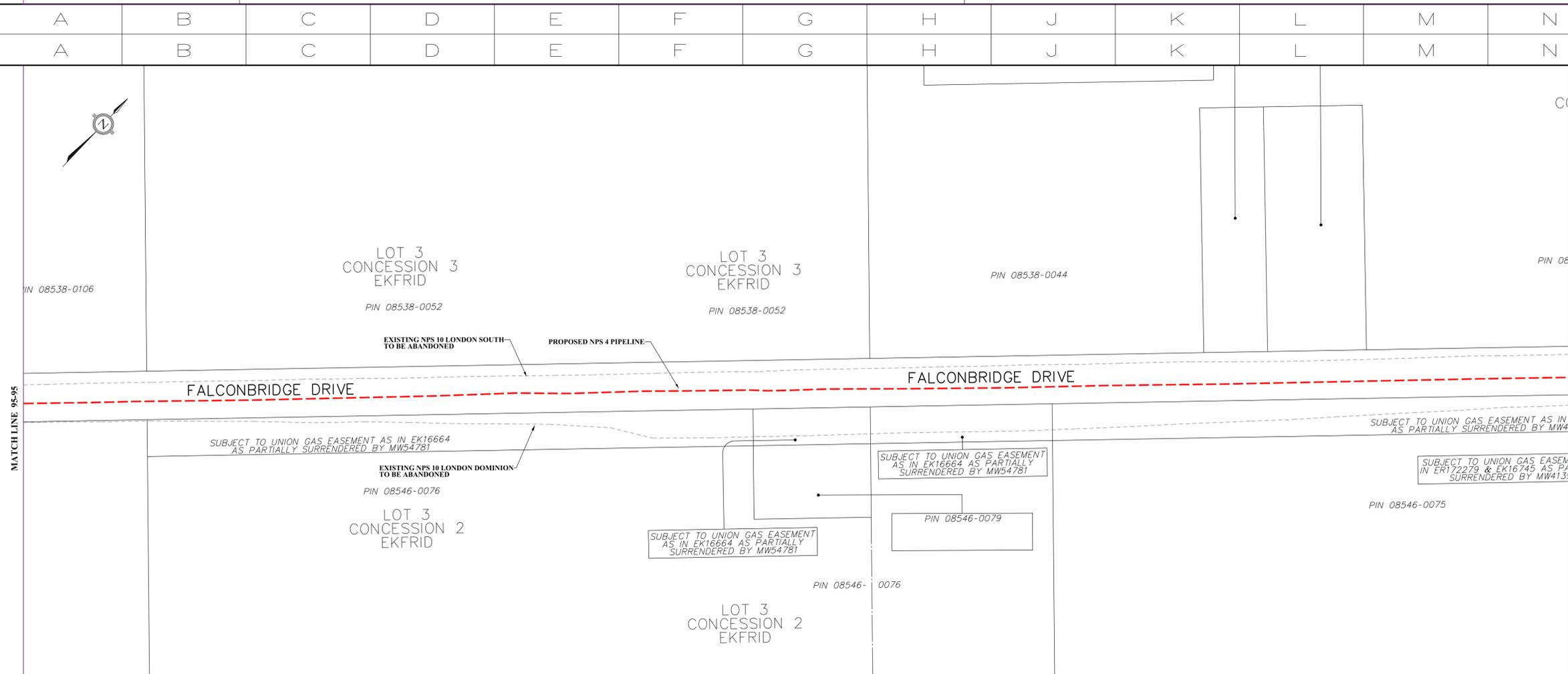
ENGINEER:

ENBRIDGE
 Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
 MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

DRAWN BY	SD	DATE	2020-08-24	PLOT SPEC	1:1000
CHECKED BY	AC	DATE		CAD CODE	
APPROVED BY		DATE		FILE REVISION DATE	

SIZE STRIP	SHEET 48 OF 73	DRAWING No.
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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

#	2828-89-24	SD	AC	DEB FILING
NO.	DATE	BY	APPD	REMARKS

DESIGNED TO CSA 2662-15
 DESIGN PRESSURE - 3447 kPa

REVISIONS

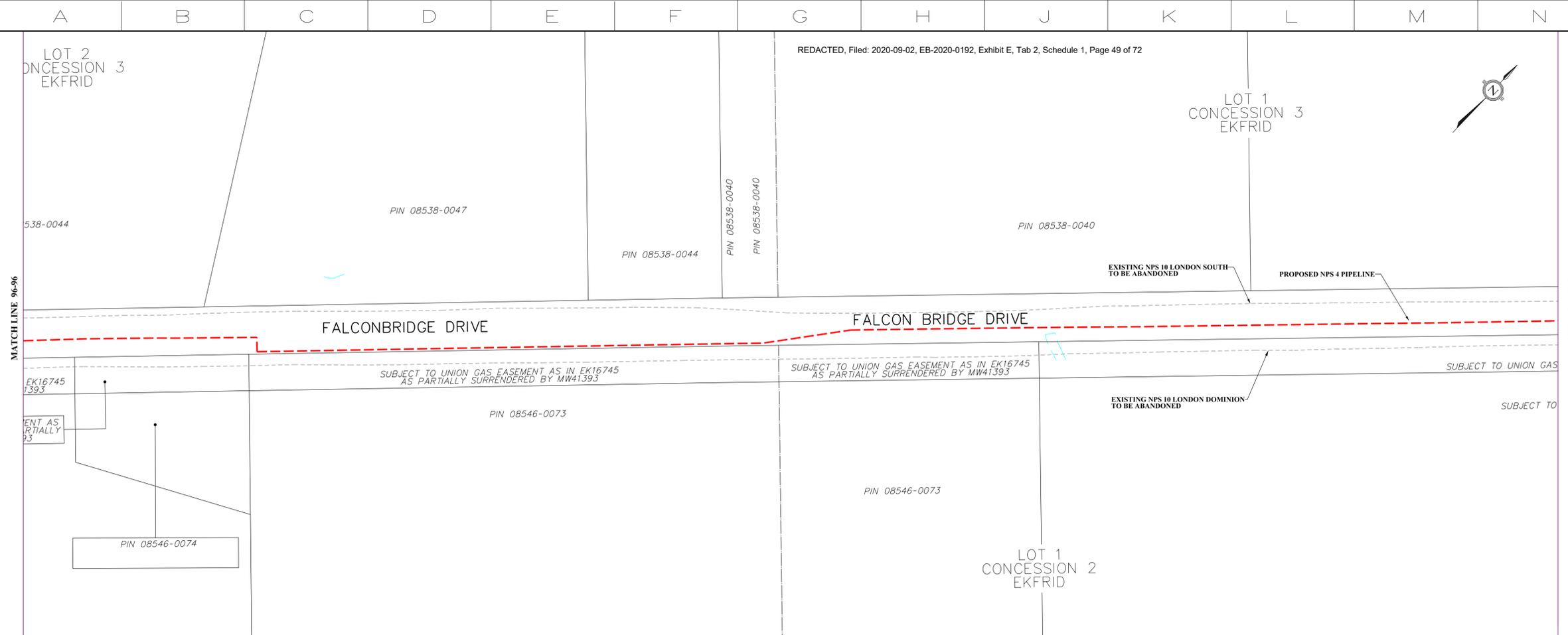
ENGINEER:

ENBRIDGE
 Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
 MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

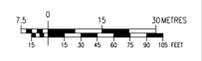
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CHECKED BY	AC	DATE		CAD CODE	
APPROVED BY		DATE		FILE REVISION DATE	

SIZE STRIP	SHEET 48 OF 73	DRAWING No.
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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
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DESIGN PARAMETERS

DESIGNED TO CSA 2662-15	DESIGN PRESSURE - 3447 kPa	NO.	DATE	BY	APPD	REVISIONS	REMARKS
ENGINEER:							

REVISIONS

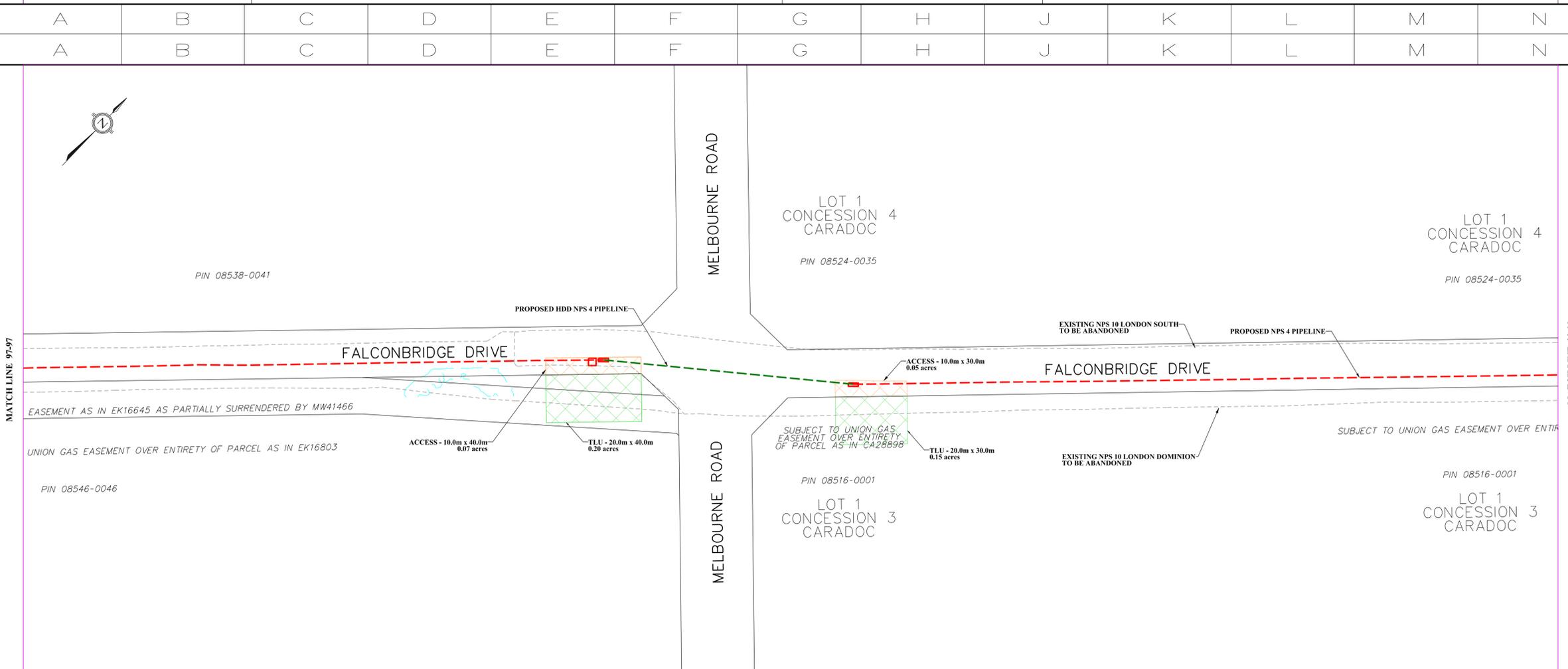
NO.	DATE	BY	APPD	REVISIONS	REMARKS
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ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

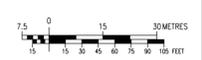
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APPROVED BY		DATE		FILE REVISION DATE	

SIZE STRIP	SHEET 49 OF 73	DRAWING No.
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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
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- TEMPORARY ENBRIDGE EASEMENT - - - - -
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- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

DESIGNED TO CSA 2662-15	DESIGN PRESSURE - 3447 kPa	NO.	DATE	BY	APPD	REVISIONS	REMARKS
ENGINEER:							

REVISIONS

NO.	DATE	BY	APPD	REVISIONS	REMARKS
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ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021

DRAWN BY	SD	DATE	2020-08-24	PLOT SPEC:	1:1000
CHECKED BY	AC	DATE		CAD CODE:	
APPROVED BY		DATE		FILE REVISION DATE	

SIZE STRIP	SHEET 49 OF 73	DRAWING No.
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LOT 2
CONCESSION 4
CARADOC

LOT 2
CONCESSION 4
CARADOC

PIN 08524-0036

PIN 08524-0036

EXISTING NPS 10 LONDON SOUTH
TO BE ABANDONED

PROPOSED NPS 4 PIPELINE

PROPOSED HDD NPS 4 PIPELINE

FALCONBRIDGE DRIVE

FALCONBRIDGE DRIVE

MATCH LINE 98-98

MATCH LINE 99-99

ITY OF PARCEL AS IN CA28898

EXISTING NPS 10 LONDON DOMINION
TO BE ABANDONED

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN CA28899

PIN 08516-0008

LOT 2
CONCESSION 3
CARADOC

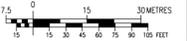
ACCESS - 10.0m x 40.0m
0.07 acres

TLU - 20.0m x 40.0m
0.20 acres

SUBJECT TO UNION GAS EASEM

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
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DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

DRAWN BY	DATE	DATE	DATE	DATE
SD	2020-08-24	2020-08-24	2020-08-24	2020-08-24
AC				

SIZE STRIP	SHEET	DRAWING No.
	50 OF 73	



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

LOT 3
CONCESSION 4
CARADOC

TLU - 30.0m x 60.0m
0.44 acres

PIN 08524-0037

PROPOSED HDD NPS 4 PIPELINE

EXISTING NPS 10 LONDON SOUTH
TO BE ABANDONED

PROPOSED NPS 4 PIPELINE

FALCONBRIDGE DRIVE

MATCH LINE 99-99

MATCH LINE 100-100

ACCESS - 10.0m x 40.0m
0.07 acres

TLU - 20.0m x 40.0m
0.20 acres

EXISTING NPS 10 LONDON DOMINION
TO BE ABANDONED

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN CA28900

SUBJECT TO UNION GAS EASEMENT OVER ENTIRETY OF PARCEL AS IN CA28900

PIN 08516-0008

LOT 3
CONCESSION 3
CARADOC

PIN 08516-0008

NT OVER ENTIRETY OF PARCEL AS IN CA28899

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
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DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



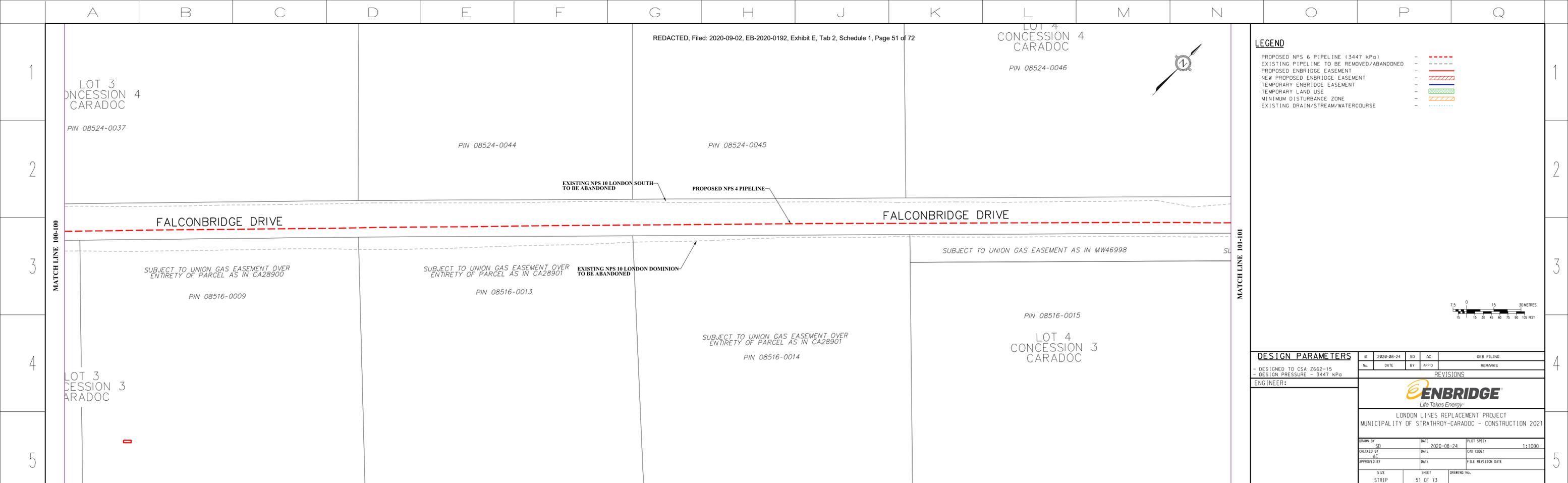
LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF SOUTHWEST MIDDLESEX - CONSTRUCTION 2021
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

DRAWN BY	DATE	DATE	DATE	DATE
SD	2020-08-24	2020-08-24	2020-08-24	2020-08-24
AC				

SIZE STRIP	SHEET	DRAWING No.
	50 OF 73	

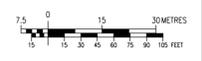


A B C D E F G H J K L M N O P Q



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
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- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		NO.	DATE	BY	APPD.	REMARKS
- DESIGNED TO CSA 2662-15						
- DESIGN PRESSURE - 3447 kPa						

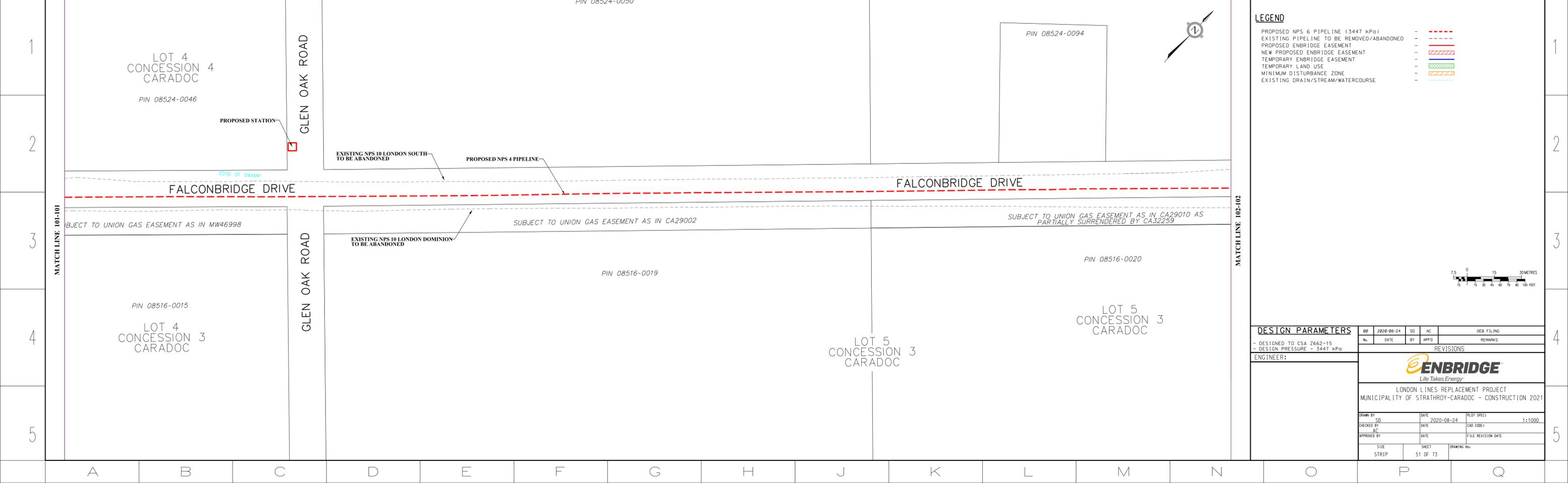
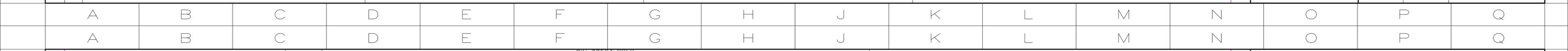
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NO.	DATE	BY	REVISIONS

ENGINEER:

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

DRAWN BY	SD	DATE	2020-08-24	PLOT SPEC:	1:1000
CHECKED BY	AC	DATE		CAD CODE:	
APPROVED BY		DATE		FILE REVISION DATE	

SIZE STRIP	SHEET 51 OF 73	DRAWING No.
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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		NO.	DATE	BY	APPD.	REMARKS
- DESIGNED TO CSA 2662-15						
- DESIGN PRESSURE - 3447 kPa						

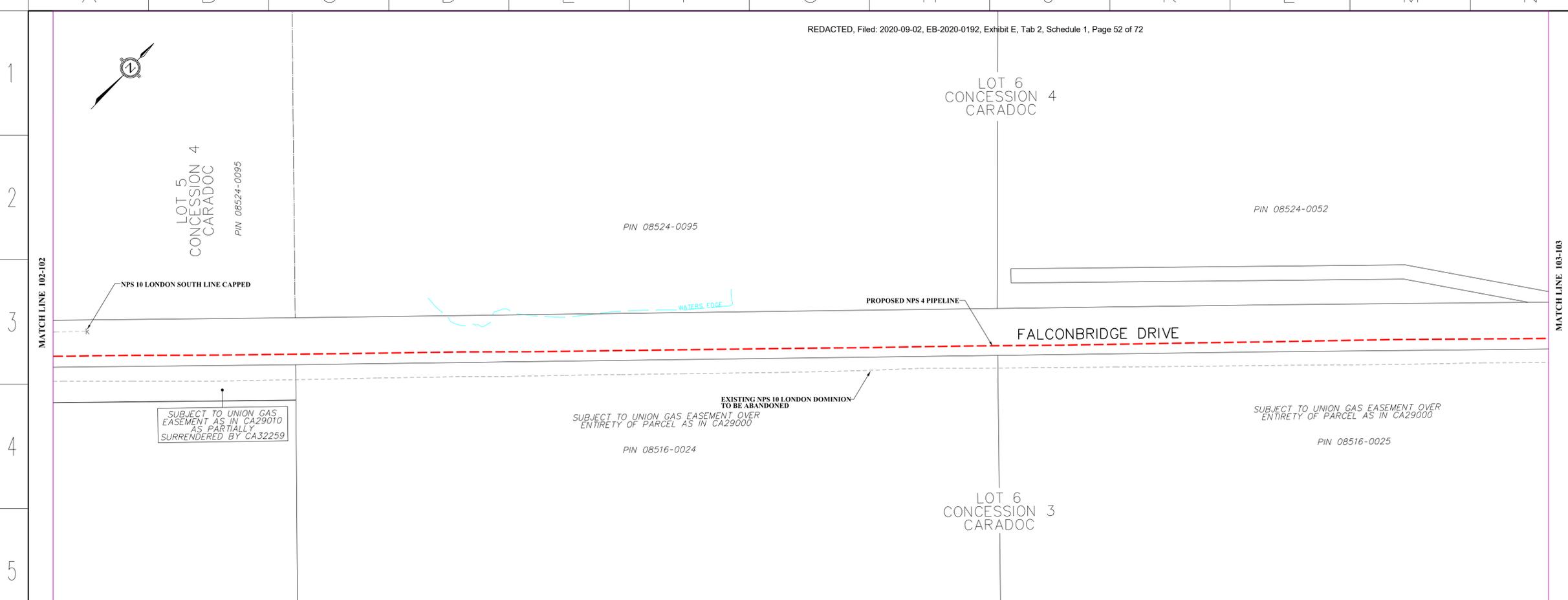
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NO.	DATE	BY	REVISIONS

ENGINEER:

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

DRAWN BY	SD	DATE	2020-08-24	PLOT SPEC:	1:1000
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SIZE STRIP	SHEET 51 OF 73	DRAWING No.
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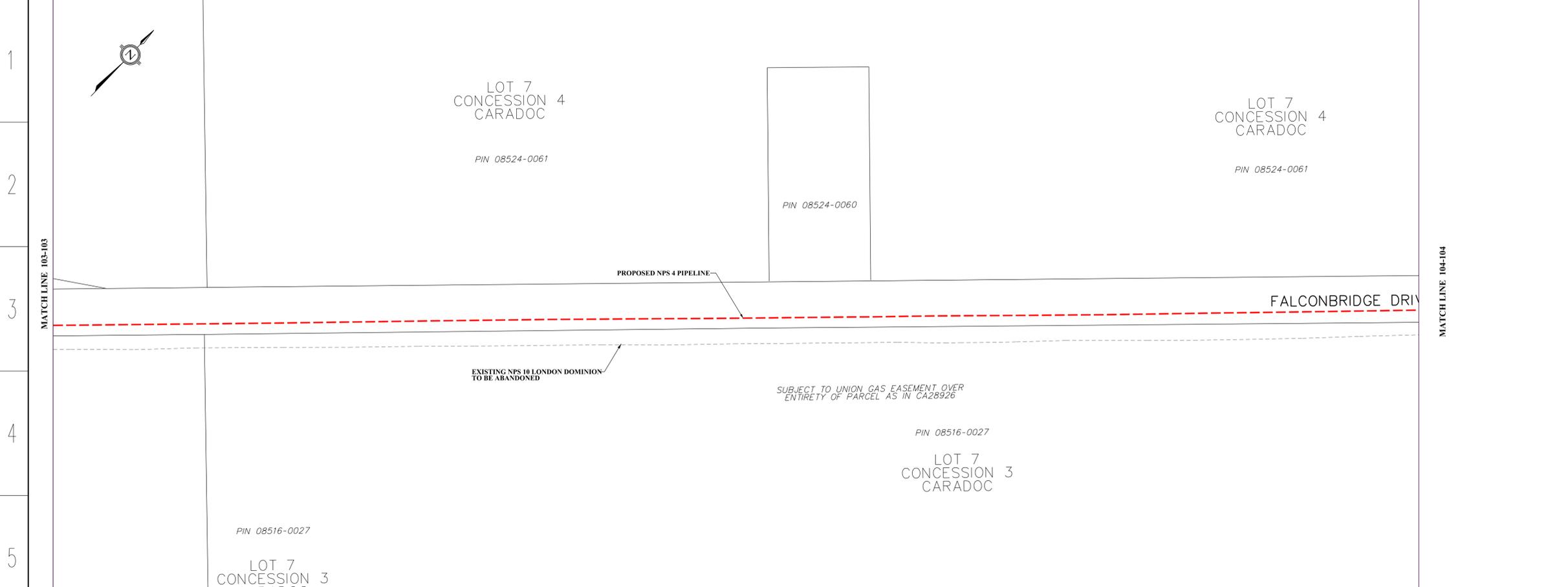


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		#	2020-08-24	SD	AC	DEB FILING
- DESIGNED TO CSA 2662-15		NO.	DATE	BY	APPD	REMARKS
- DESIGN PRESSURE = 3447 kPa		REVISIONS				
ENGINEER:						
LONDON LINES REPLACEMENT PROJECT						
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021						
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SIZE STRIP	SHEET 52 OF 73	DRAWING No.				



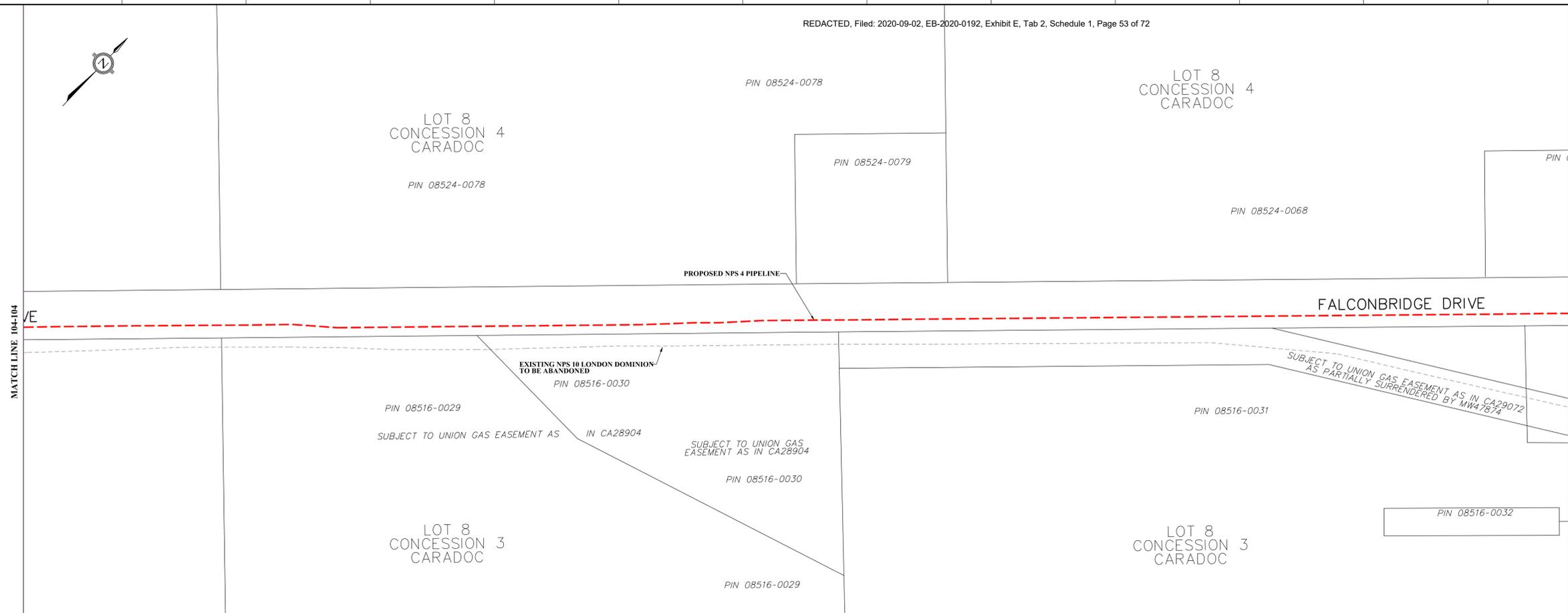
LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		#	2020-08-24	SD	AC	DEB FILING
- DESIGNED TO CSA 2662-15		NO.	DATE	BY	APPD	REMARKS
- DESIGN PRESSURE = 3447 kPa		REVISIONS				
ENGINEER:						
LONDON LINES REPLACEMENT PROJECT						
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021						
DRAWN BY	SD	DATE	2020-08-24	PLOT SPEC:	1:1000	
CHECKED BY	AC	DATE		CAD CODE:		
APPROVED BY		DATE		FILE REVISION DATE		
SIZE STRIP	SHEET 52 OF 73	DRAWING No.				





LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

DESIGNED TO CSA 2662-15	DESIGN PRESSURE - 3447 kPa
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REVISIONS

NO.	DATE	BY	APPD	REMARKS

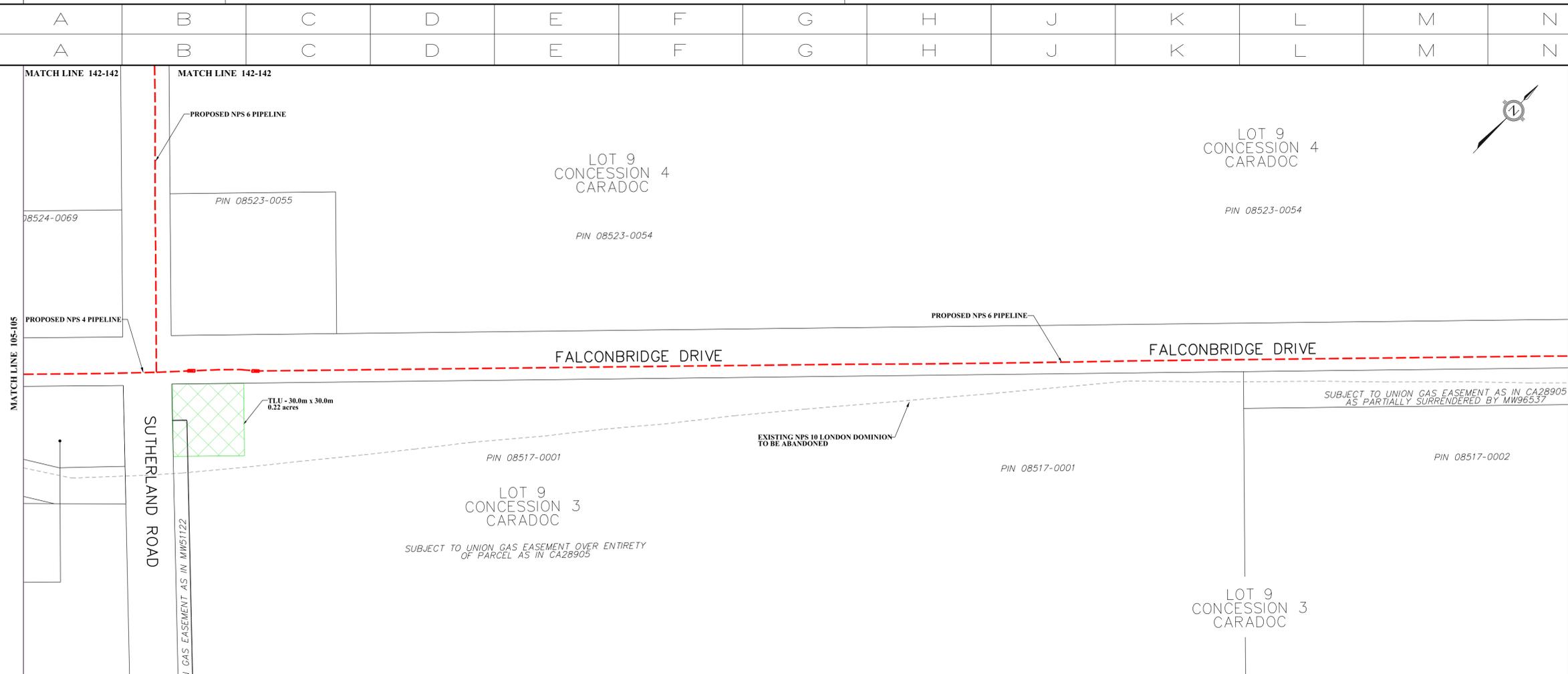
ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

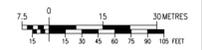
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SIZE STRIP	SHEET 53 OF 73	DRAWING No.
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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

DESIGNED TO CSA 2662-15	DESIGN PRESSURE - 3447 kPa
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REVISIONS

NO.	DATE	BY	APPD	REMARKS

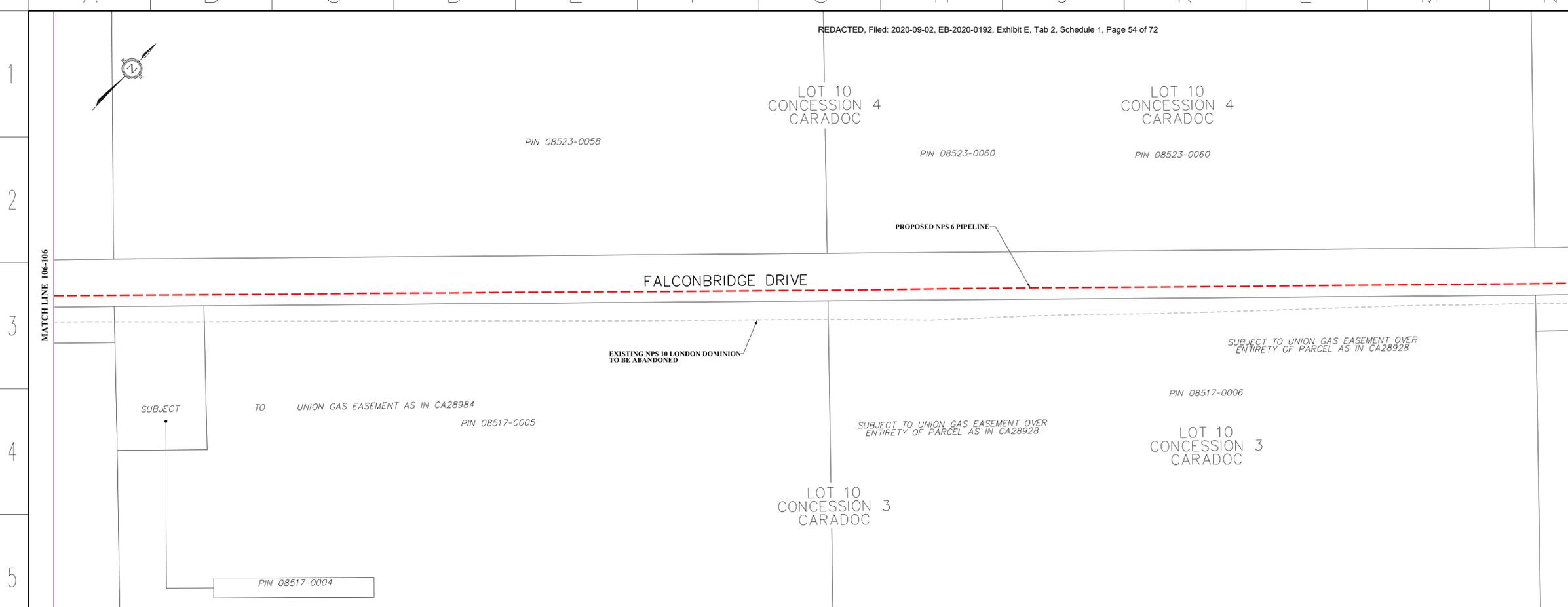
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ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

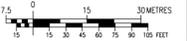
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SIZE STRIP	SHEET 53 OF 73	DRAWING No.
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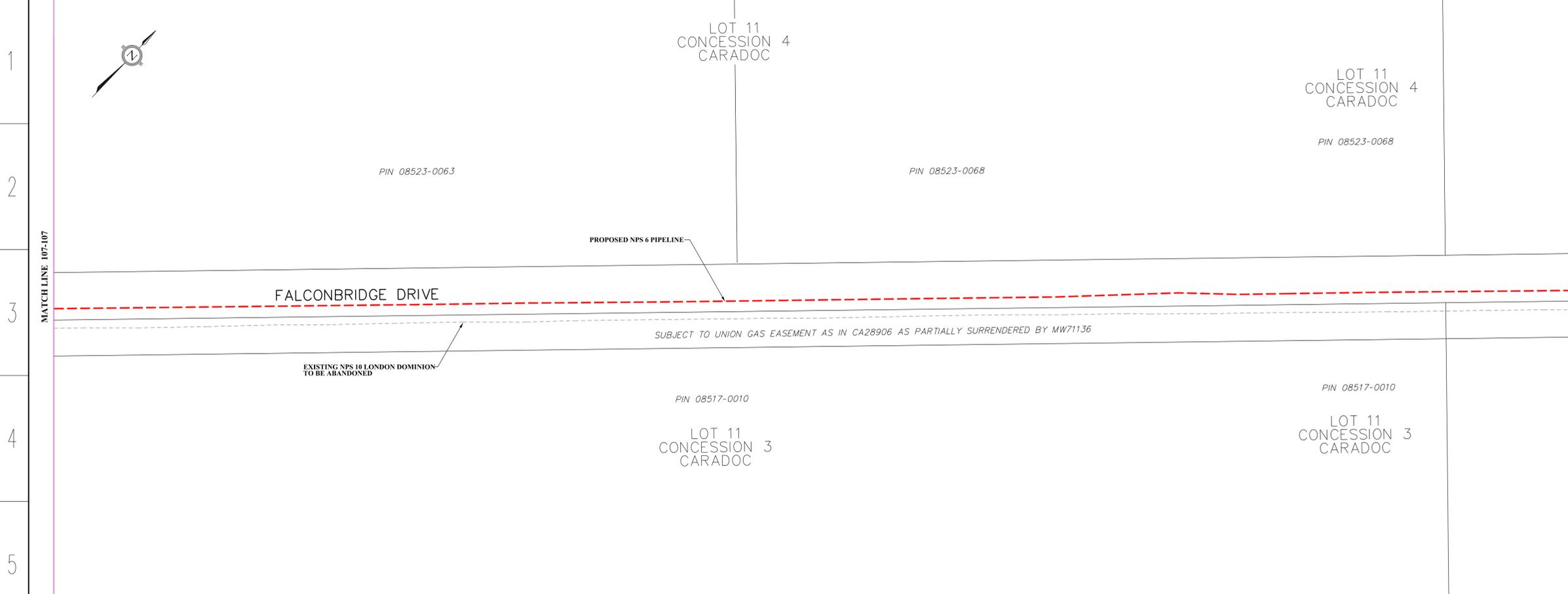
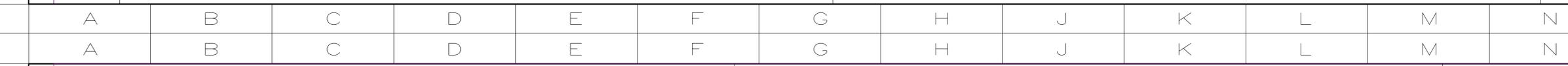


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		NO.	DATE	BY	APPD	REVISIONS	REMARKS		
- DESIGNED TO CSA 2662-15									
- DESIGN PRESSURE = 3447 kPa									
ENGINEER:		<p>LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021</p>							
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APPROVED BY:	DATE:							FILE REVISION DATE:	
SIZE STRIP	SHEET 54 OF 73	DRAWING No.							



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		NO.	DATE	BY	APPD	REVISIONS	REMARKS		
- DESIGNED TO CSA 2662-15									
- DESIGN PRESSURE = 3447 kPa									
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APPROVED BY:	DATE:							FILE REVISION DATE:	
SIZE STRIP	SHEET 54 OF 73	DRAWING No.							





LOT 12
CONCESSION 4
CARADOC
PIN 08523-0071

CHRISTINA ROAD

PIN 08523-0075

FALCONBRIDGE DRIVE

FALCONBRIDGE DRIVE

EXISTING NPS 10 LONDON DOMINION
TO BE ABANDONED

PIN 08517-0012
LOT 12
CONCESSION 3
CARADOC

TLU - 30.0m x 30.0m
0.22 acres

MW71137

PIN 08517-0013

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REMARKS

ENGINEER:

REVISIONS



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

DRAWN BY	DATE	DATE	DATE	DATE
SD	2020-08-24	2020-08-24		
AC				

SIZE	SHEET	DRAWING No.
STRIP	55 OF 73	

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



LOT 13
CONCESSION 4
CARADOC

PIN 08523-0078

PIN 08523-0075

PIN 08523-0075

PIN 08523-0077

PROPOSED NPS 6 PIPELINE

FALCONBRIDGE DRIVE

FALCONBRIDGE DRIVE

WATERS EDGE

TLU - 30.0m x 30.0m
0.22 acres

SUBJECT TO UNION GAS EASEMENT AS IN L1333078

EXISTING NPS 10 LONDON DOMINION TO BE ABANDONED

SUBJECT TO UNION GAS EASEMENT AS IN L1333078

SUBJECT TO UNION GAS EASEMENT AS IN L1333078

PIN 08517-0016

PIN 08517-0104

PIN 08517-0023

SUBJECT TO UNION GAS EASEMENT AS IN CA28929

PIN 08517-0103

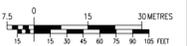
LOT 14
CONCESSION 3
CARADOC

PIN 08517-0104

LOT 13
CONCESSION 3

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REMARKS

ENGINEER:

REVISIONS

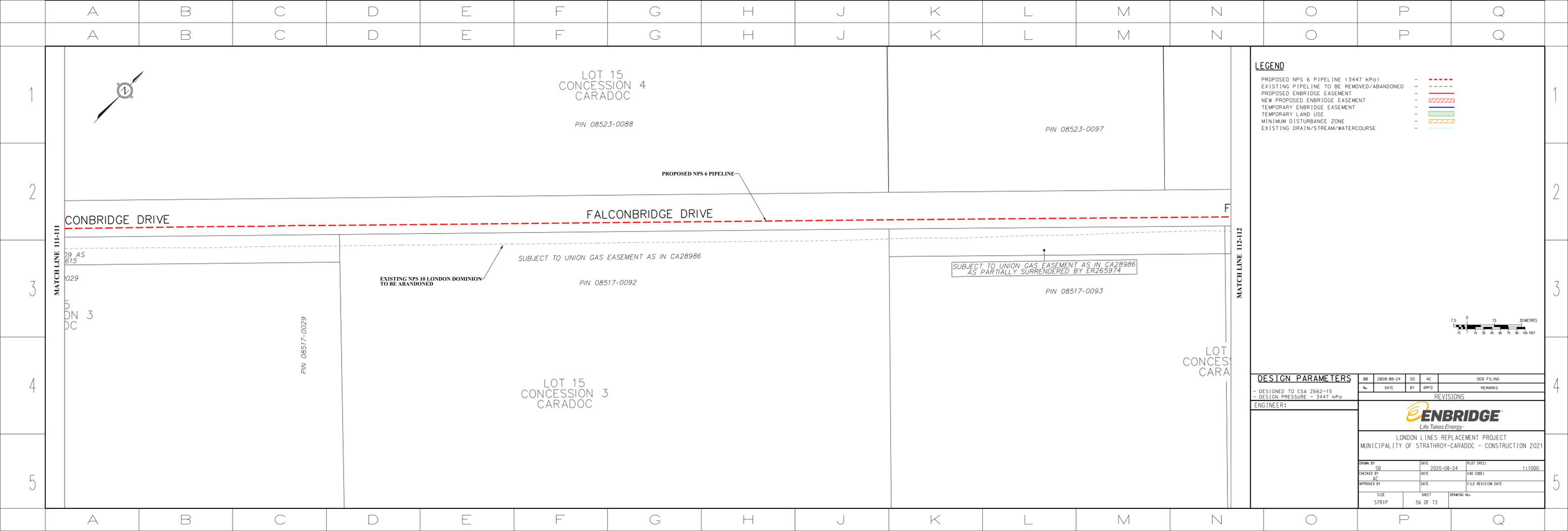
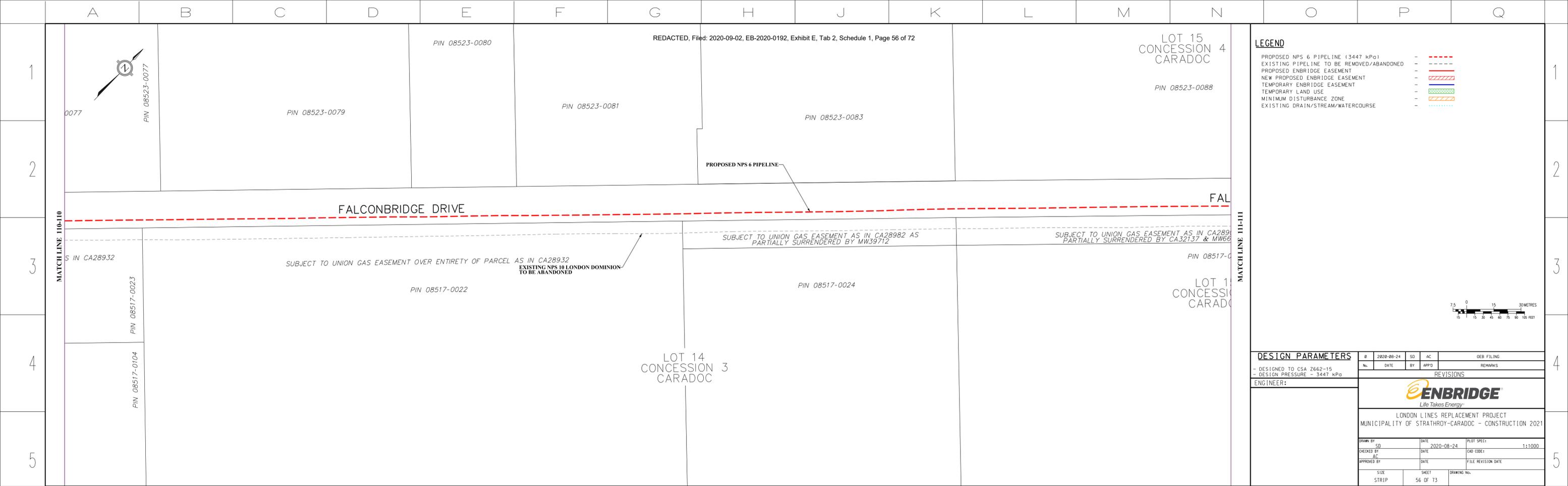


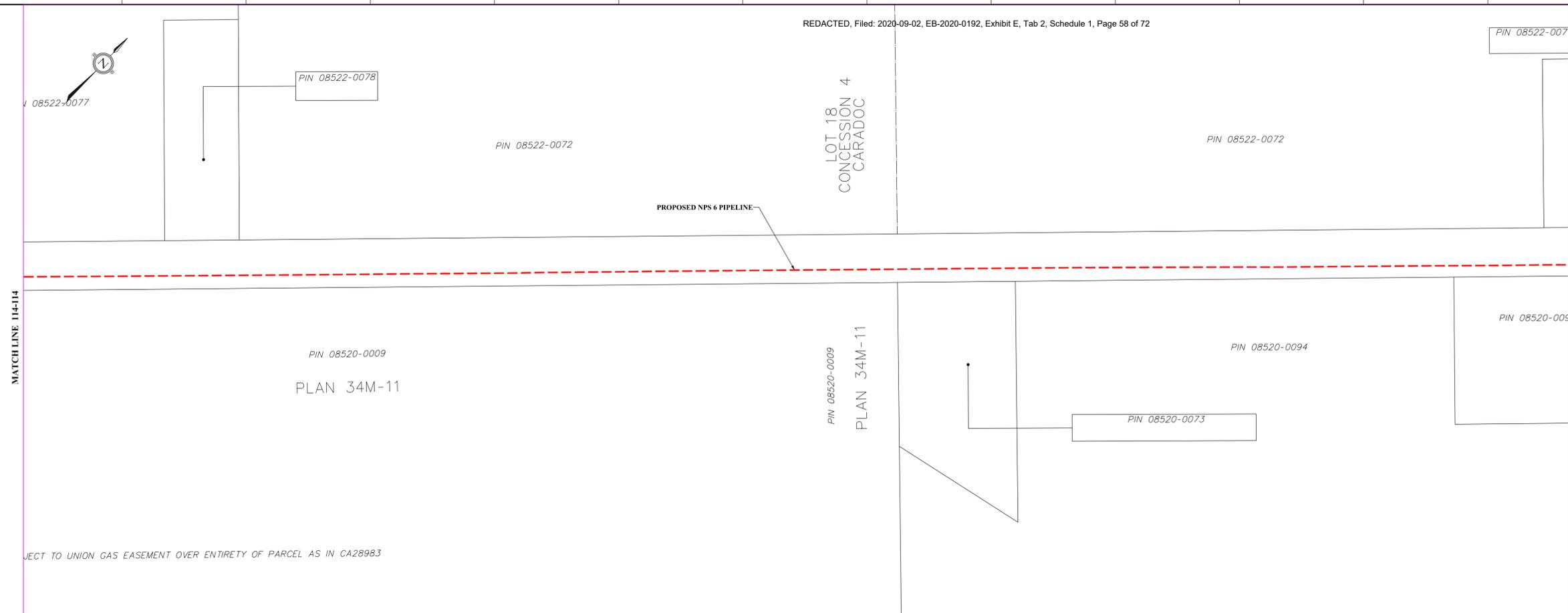
LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

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SD	2020-08-24	2020-08-24		
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SIZE	SHEET	DRAWING No.
STRIP	55 OF 73	

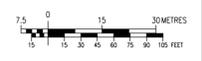
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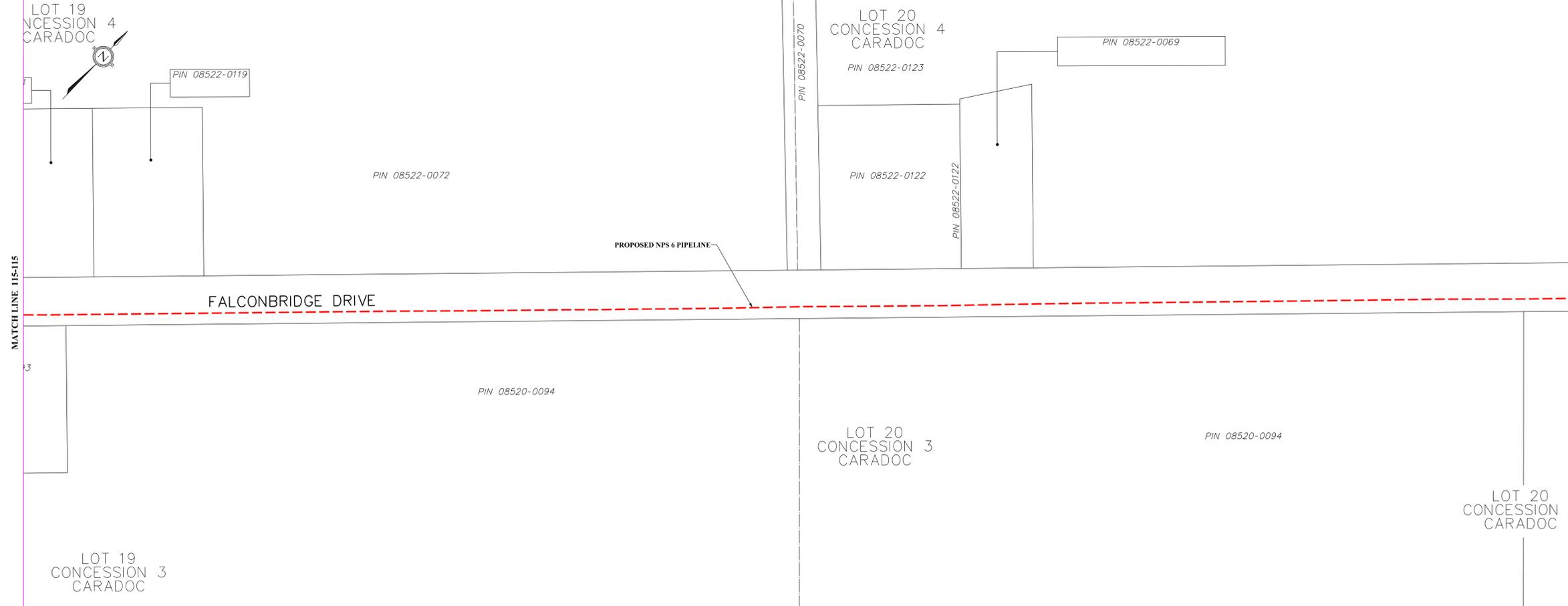


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -

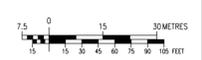


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- DESIGNED TO CSA Z662-15				NO.	DATE	BY	APPROVED
- DESIGN PRESSURE = 3447 kPa				REVISIONS			
ENGINEER:							
ENBRIDGE <i>Life Takes Energy</i>							
LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021							
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SIZE	SHEET	DRAWING No.					
STRIP	58 OF 73						



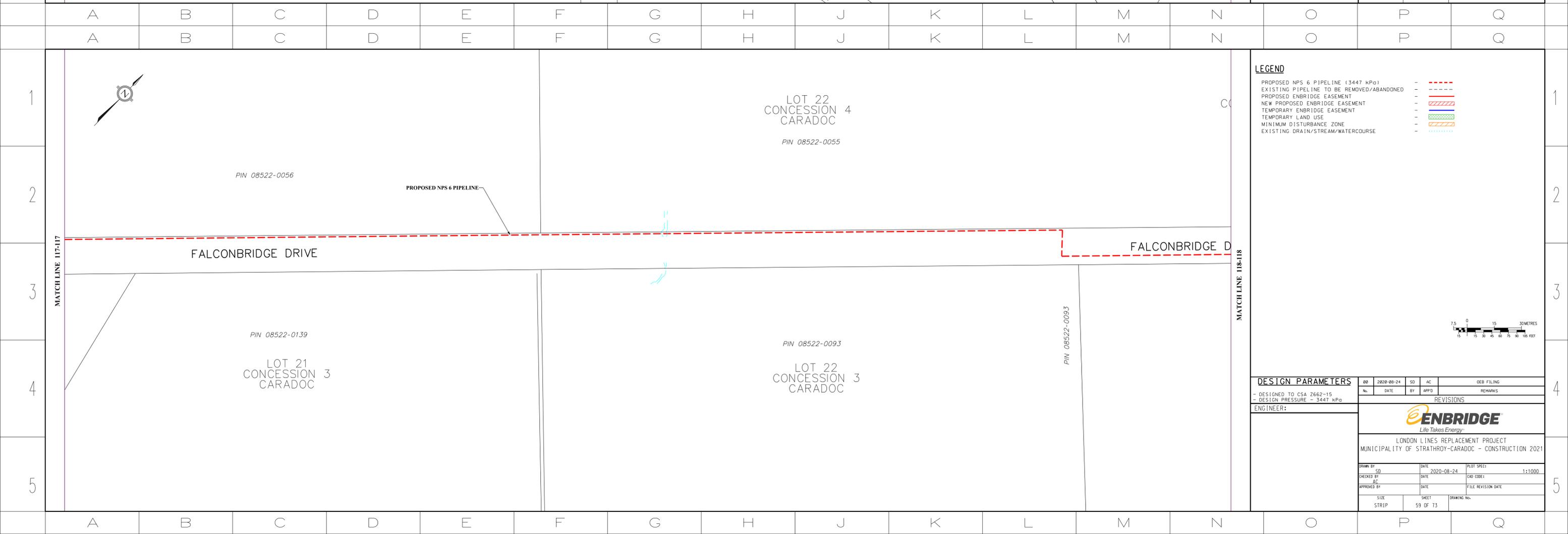
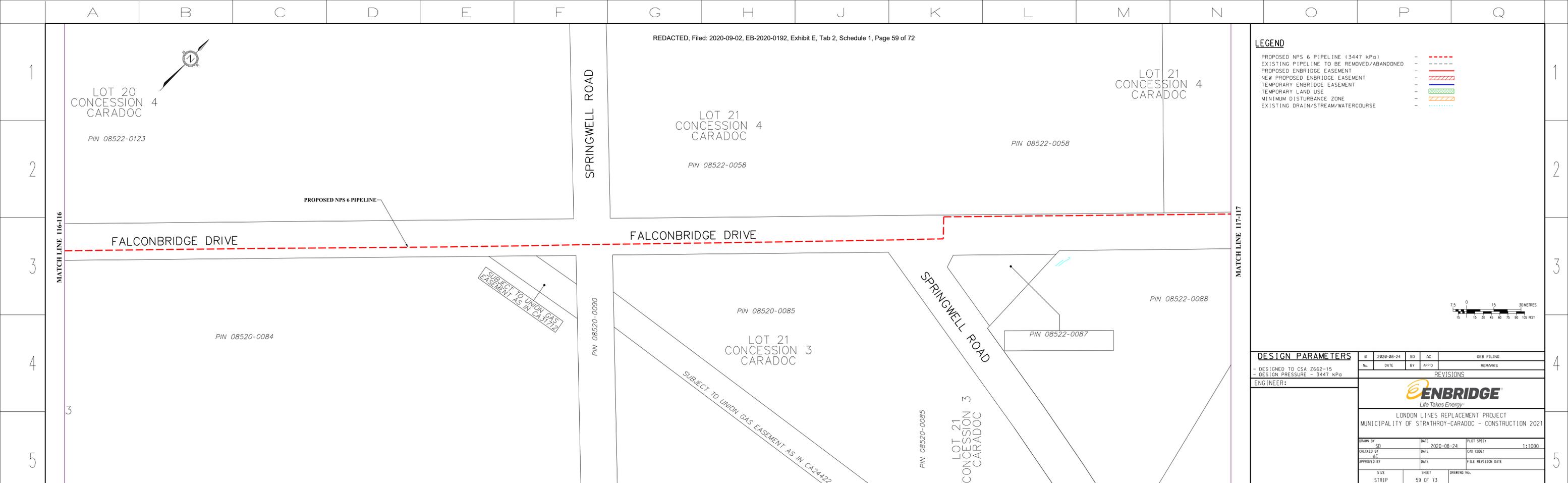
LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS				DESIGN		REVISIONS	
- DESIGNED TO CSA Z662-15				NO.	DATE	BY	APPROVED
- DESIGN PRESSURE = 3447 kPa				REVISIONS			
ENGINEER:							
ENBRIDGE <i>Life Takes Energy</i>							
LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021							
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CHECKED BY	DATE	DATE	DATE	DATE	DATE	DATE	DATE
AC							
APPROVED BY	DATE	DATE	DATE	DATE	DATE	DATE	DATE
SIZE	SHEET	DRAWING No.					
STRIP	58 OF 73						





LOT 22
CONCESSION 4
CARADOC

LOT 23
CONCESSION 4
CARADOC

PIN 08522-0055

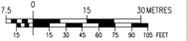
PIN 08522-0118

PIN 08522-0121



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



PROPOSED NPS 6 PIPELINE

PROPOSED HDD NPS 6 PIPELINE

PROPOSED NPS 6 PIPELINE

RIVE

TLU - 20.0m x 30.0m
0.15 acres

TLU - 10.0m x 30.0m
0.08 acres

ACCESS - 10.0m x 271.0m
0.70 acres

AVRO DRIVE

TLU - 10.0m x 271.0m (HRR)
0.81 acres

MATCHLINE 118-118

MATCHLINE 119-119

PIN 08522-0094

LOT 22
CONCESSION 3
CARADOC

PIN 08522-0118

HWY 402

PIN 08522-0102

LOT 23
CONCESSION 3
CARADOC

DESIGN PARAMETERS

- DESIGNED TO CSA Z662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REVISIONS
1	2020-08-24	SD	AC	DEB FILING

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

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CHECKED BY	AC	DATE		CAD CODE:	
APPROVED BY		DATE		FILE REVISION DATE	

SIZE	SHEET	DRAWING No.
STRIP	60 OF 73	

A

B

C

D

E

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J

K

L

M

N

O

P

Q

A

B

C

D

E

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G

H

J

K

L

M

N

O

P

Q

PIN 08522-0121

CONCESSION 4
CARADOC

PIN 08522-0046



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



22-0120

PROPOSED NPS 6 PIPELINE

AVRO DRIVE

MATCHLINE 119-119

MATCHLINE 120-120

PIN 08522-0102

LOT 23
CONCESSION 3
CARADOC

PIN 08522-0136

PIN 08522-0103

LOT 24
CONCESSION 3
CARADOC

DESIGN PARAMETERS

- DESIGNED TO CSA Z662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REVISIONS
1	2020-08-24	SD	AC	DEB FILING

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

DRAWN BY	SD	DATE	2020-08-24	PLOT SPEC:	1:1000
CHECKED BY	AC	DATE		CAD CODE:	
APPROVED BY		DATE		FILE REVISION DATE	

SIZE	SHEET	DRAWING No.
STRIP	60 OF 73	

A

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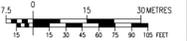
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Q



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
 - DESIGN PRESSURE - 3447 kPa

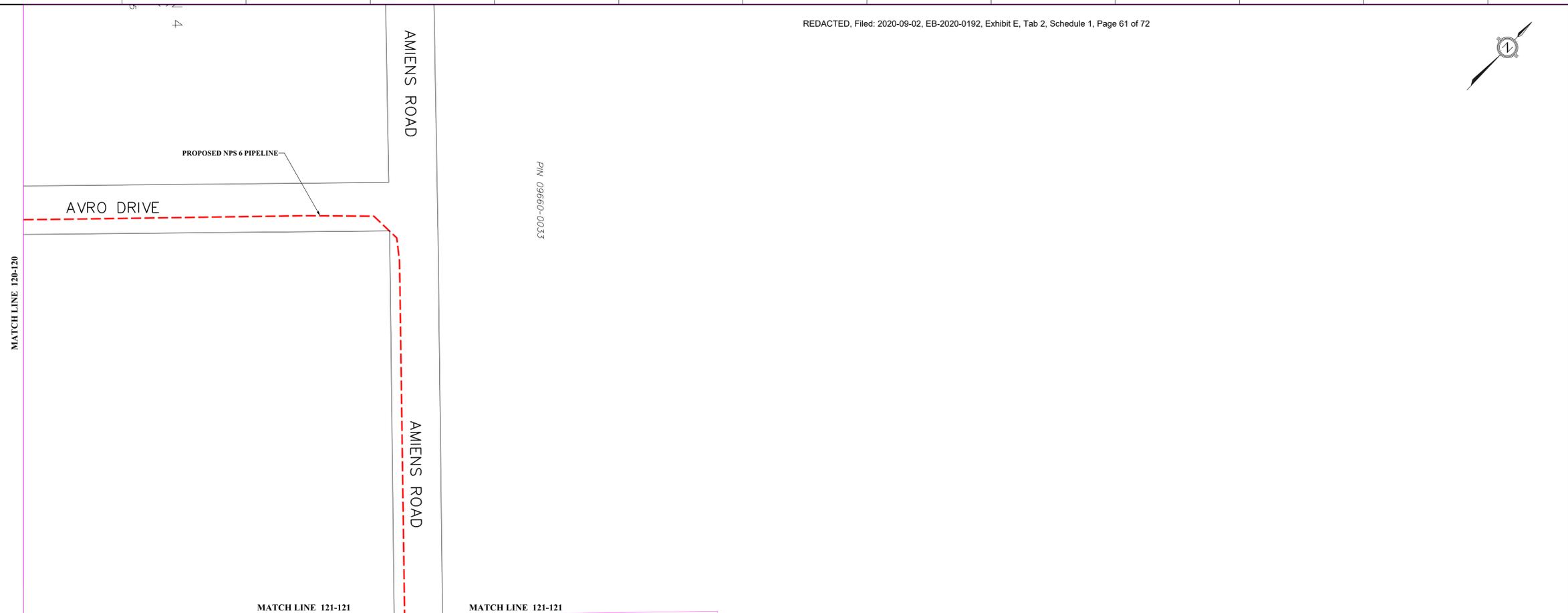
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NO.	DATE	BY	APPD	REMARKS
REVISIONS				

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
 MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

DRAWN BY SD	DATE 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY AC	DATE	CAD CODE:
APPROVED BY	DATE	FILE REVISION DATE
SIZE STRIP	SHEET 61 OF 73	DRAWING No.



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



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
 - DESIGN PRESSURE - 3447 kPa

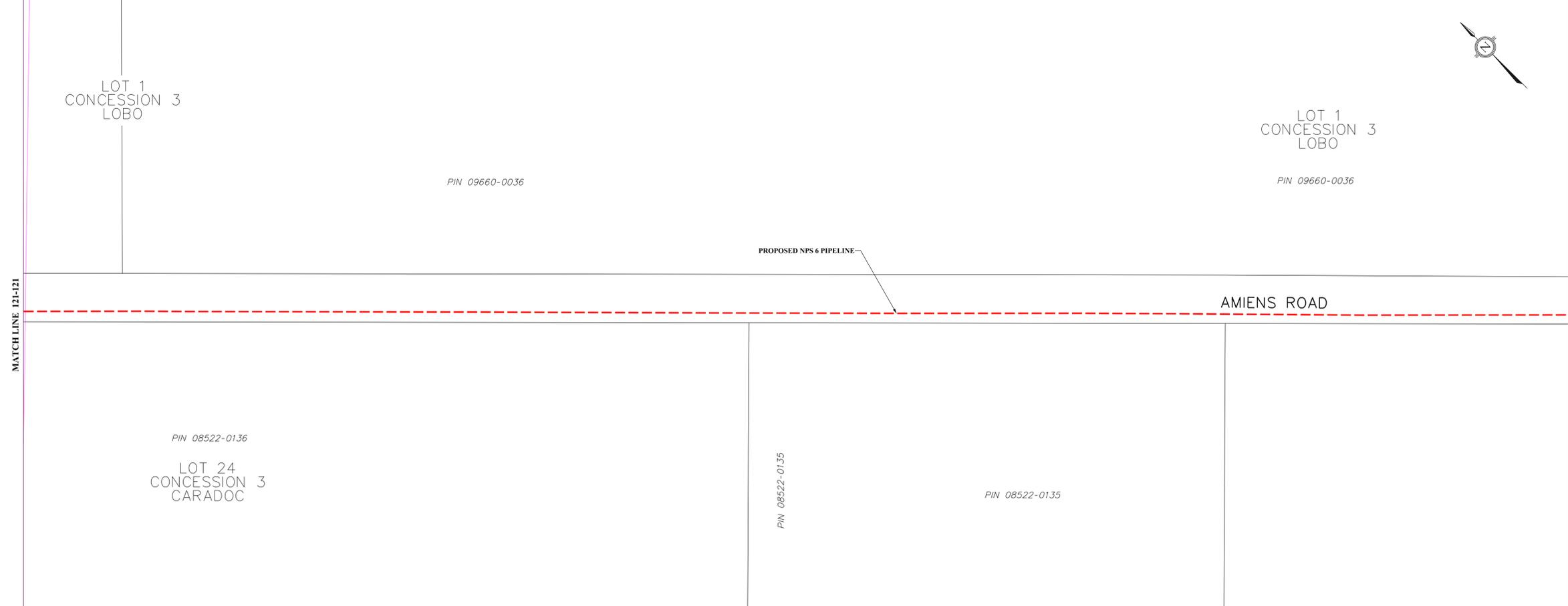
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NO.	DATE	BY	APPD	REMARKS
REVISIONS				

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
 MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

DRAWN BY SD	DATE 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY AC	DATE	CAD CODE:
APPROVED BY	DATE	FILE REVISION DATE
SIZE STRIP	SHEET 61 OF 73	DRAWING No.



A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q
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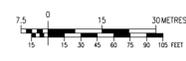
MATCH LINE 124-124

MIENS ROAD



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

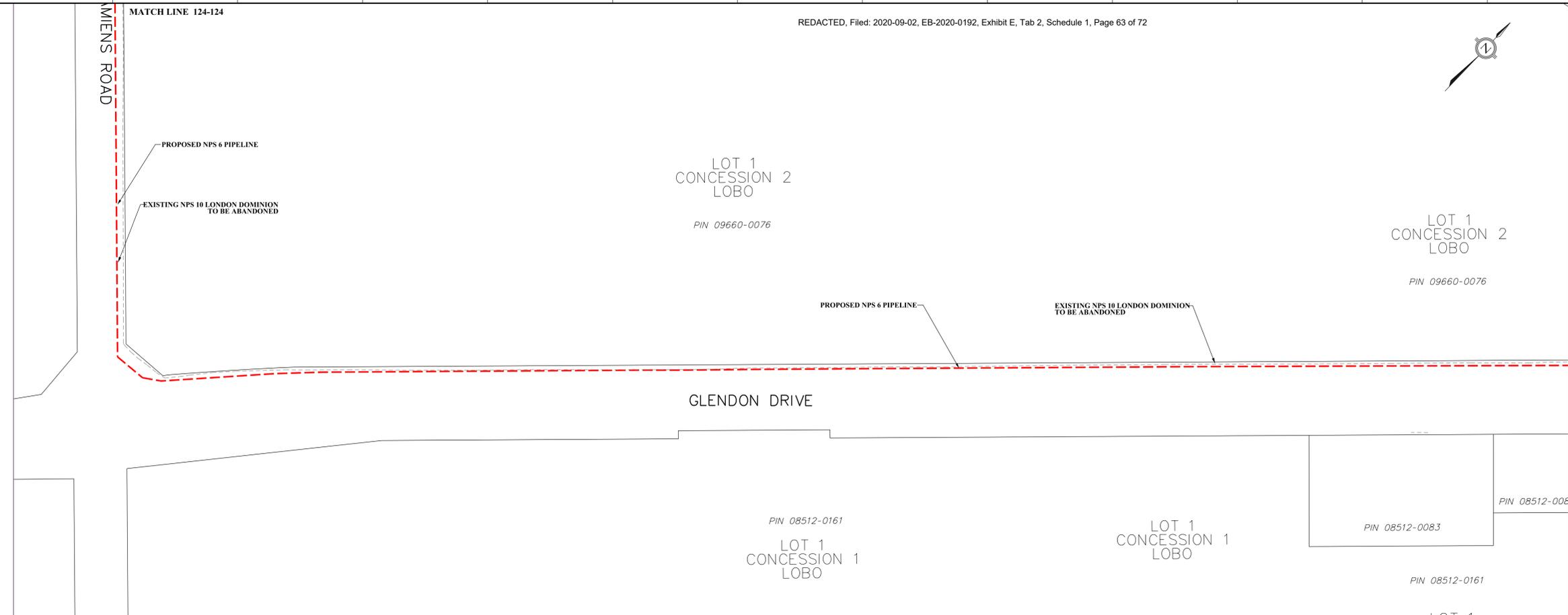
ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF MIDDLESEX CENTRE - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:

SIZE STRIP	SHEET 63 OF 73	DRAWING No.
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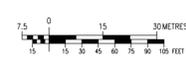


A B C D E F G H J K L M N O P Q

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

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

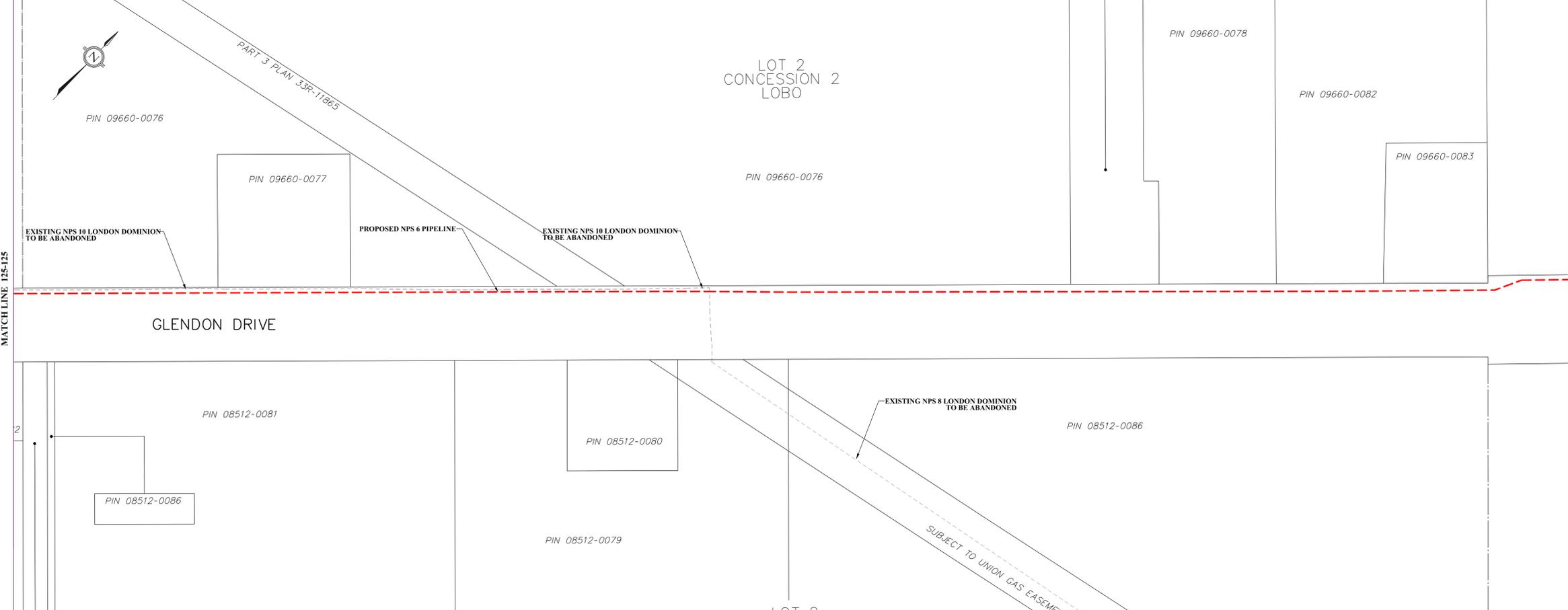
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LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF MIDDLESEX CENTRE - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:

SIZE STRIP	SHEET 63 OF 73	DRAWING No.
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A B C D E F G H J K L M N O P Q

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



LOT 3
CONCESSION 2
LOBO
PIN 09660-0087

LOT 4
CONCESSION
LOBO
PIN 09660-01

PROPOSED NPS 6 PIPELINE

GLENDON DRIVE

PIN 08512-0086

PIN 08512-0162

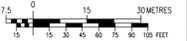
PIN 08512-0074

PIN 08512-0077

LOT 4
CONCESSION
LOBO

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF MIDDLESEX CENTRE - CONSTRUCTION 2021

DRAWN BY	SD	DATE	2020-08-24	PLOT SPEC:	1:1000
CHECKED BY	AC	DATE		CAD CODE:	
APPROVED BY		DATE		FILE REVISION DATE	
SIZE	SHEET	DRAWING No.			
STRIP	64 OF 73				

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



LOT 4
CONCESSION 2
LOBO

PIN 09660-0319

PIN 09661-0072

PROPOSED NPS 6 PIPELINE

PIN 09660-0107

TLU - 30.0m x 30.0m
0.22 acres

GLENDON DRIVE

GLENDON DRIVE

FEE - 5.0m x 80.6m
0.099 acres

PROPOSED NPS 6 PIPELINE

PIN 08512-0156

FEE - 10.0m x 195.9m
0.48 acres

PIN 08512-0155

PIN 08512-0072
OWNER: 1571145 ONTARIO LIMITED

KOMOKA ROAD

PIN 08502-00

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF MIDDLESEX CENTRE - CONSTRUCTION 2021

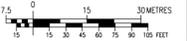
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SIZE	SHEET	DRAWING No.			
STRIP	64 OF 73				

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



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
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- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REMARKS

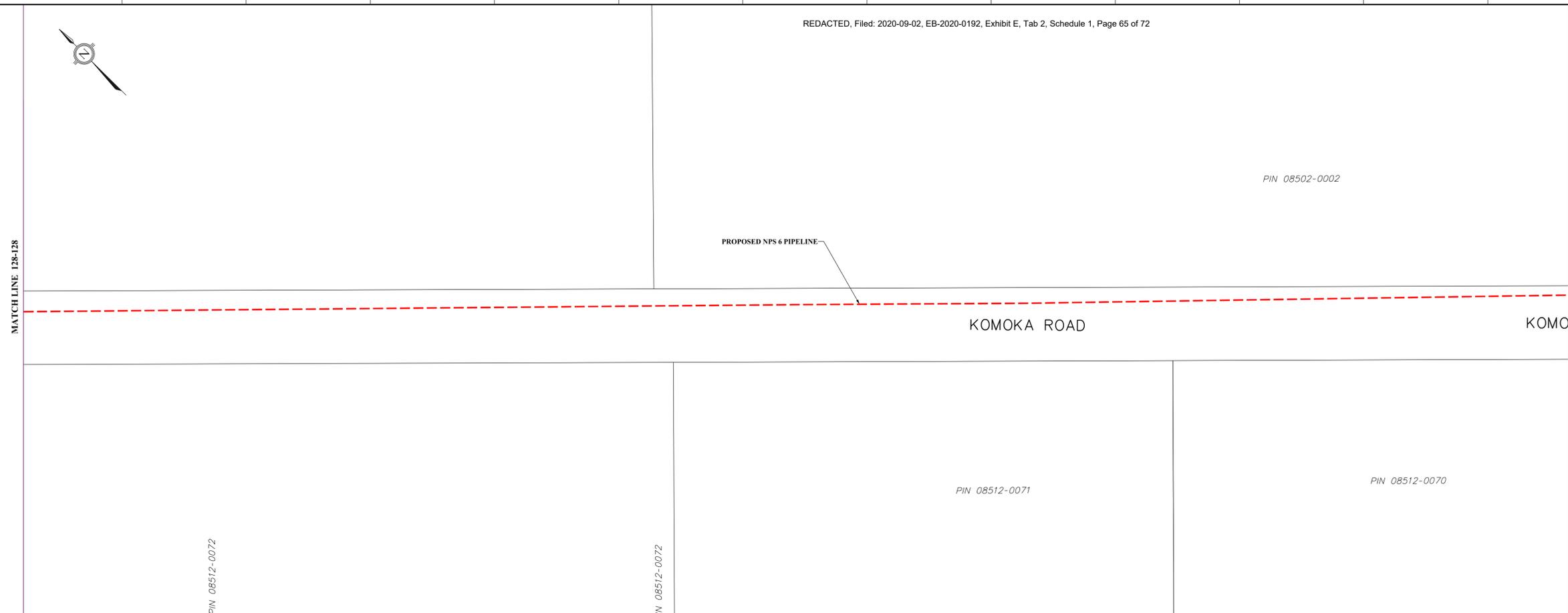
ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF MIDDLESEX CENTRE - CONSTRUCTION 2021

DRAWN BY: SD	DATE: 2020-08-24	PLT SPEC: 1:1000
CHECKED BY: AC	DATE:	CAD CODE:
APPROVED BY:	DATE:	FILE REVISION DATE:

SIZE STRIP: 65 OF 73 SHEET: 65 OF 73 DRAWING No.:



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

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

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REMARKS

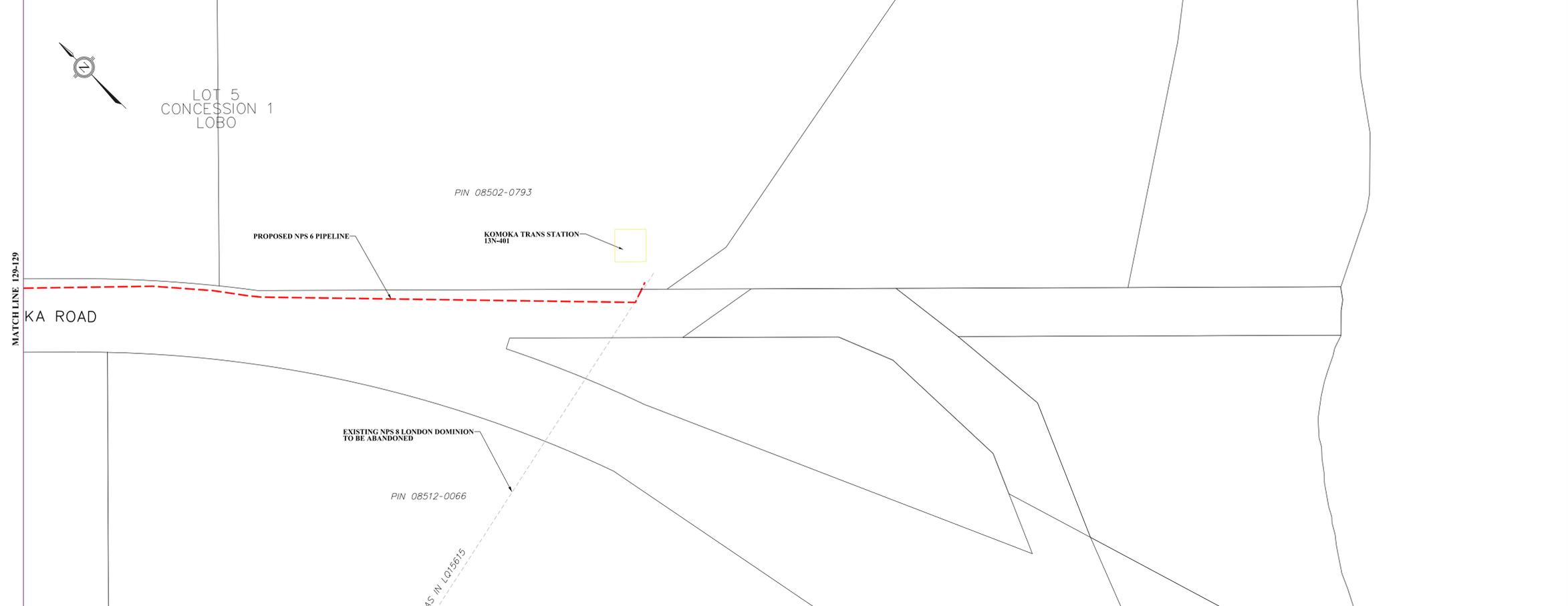
ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF MIDDLESEX CENTRE - CONSTRUCTION 2021

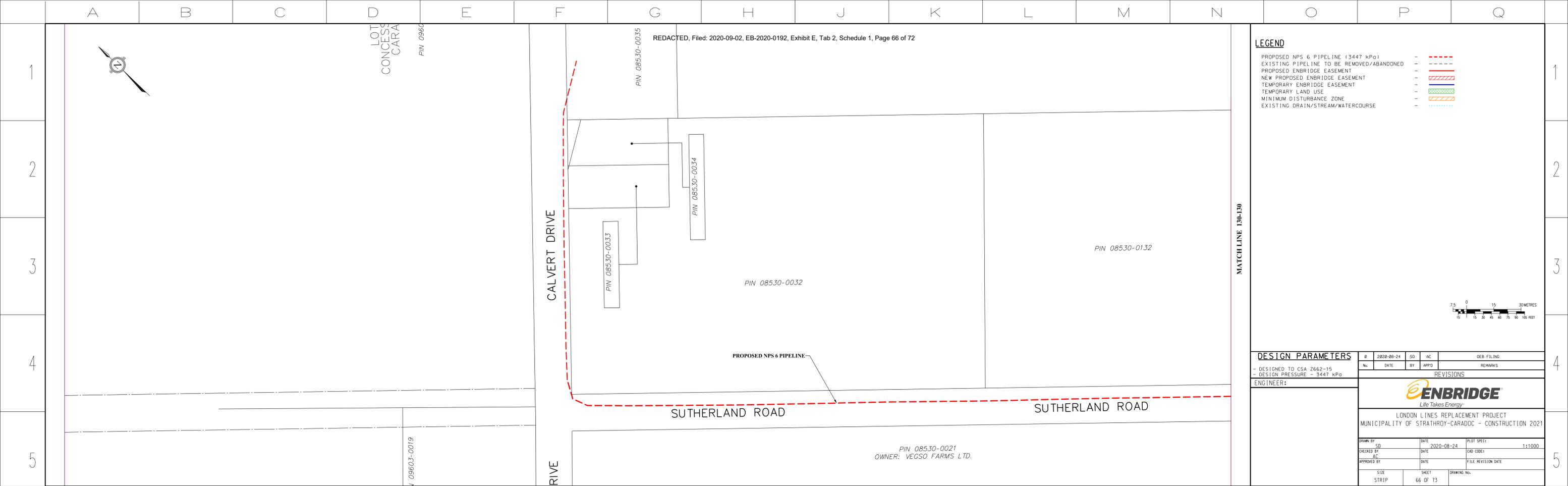
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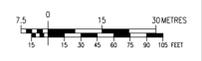
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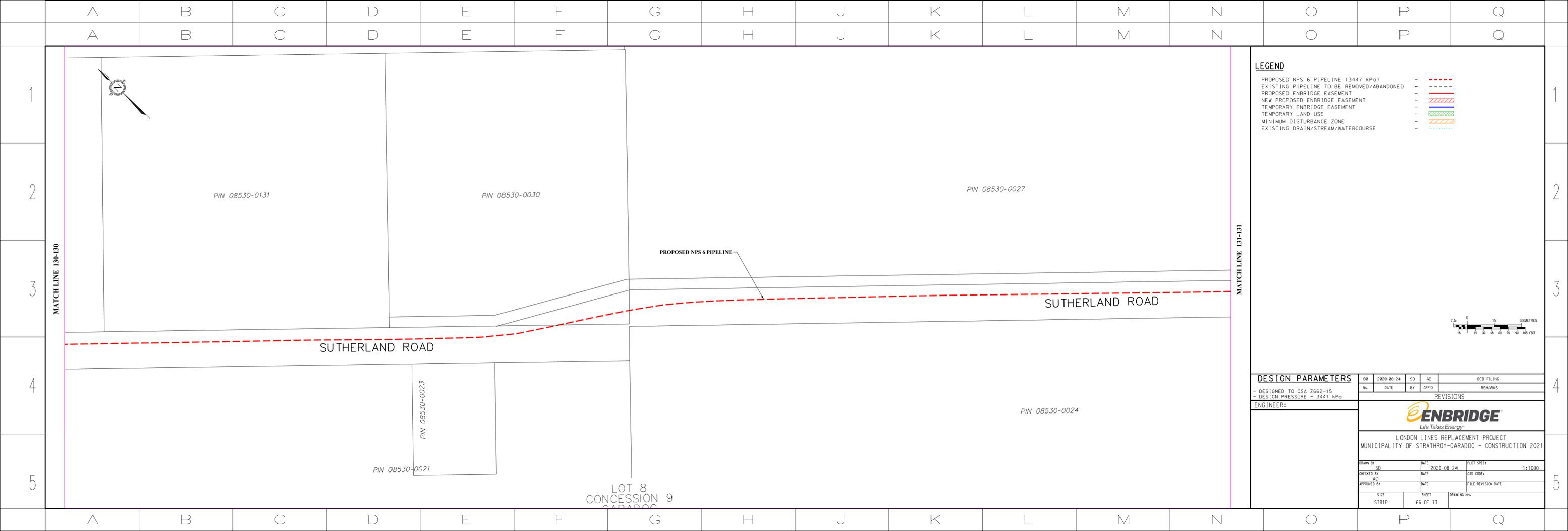


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
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- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS				REVISIONS	
DESIGNED TO CSA 2662-15	NO.	DATE	BY	APPD	REMARKS
DESIGN PRESSURE - 3447 kPa					
ENGINEER:					
LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021					
DRAWN BY	DATE	DATE	DATE	DATE	DATE
SD	2020-08-24	2020-08-24	2020-08-24	2020-08-24	2020-08-24
CHECKED BY	AC	AC	AC	AC	AC
APPROVED BY					
SIZE	SHEET	DRAWING No.			
STRIP	66 OF 73				



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -

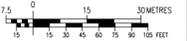


DESIGN PARAMETERS				REVISIONS	
DESIGNED TO CSA 2662-15	NO.	DATE	BY	APPD	REMARKS
DESIGN PRESSURE - 3447 kPa					
ENGINEER:					
LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021					
DRAWN BY	DATE	DATE	DATE	DATE	DATE
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CHECKED BY	AC	AC	AC	AC	AC
APPROVED BY					
SIZE	SHEET	DRAWING No.			
STRIP	66 OF 73				



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
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- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

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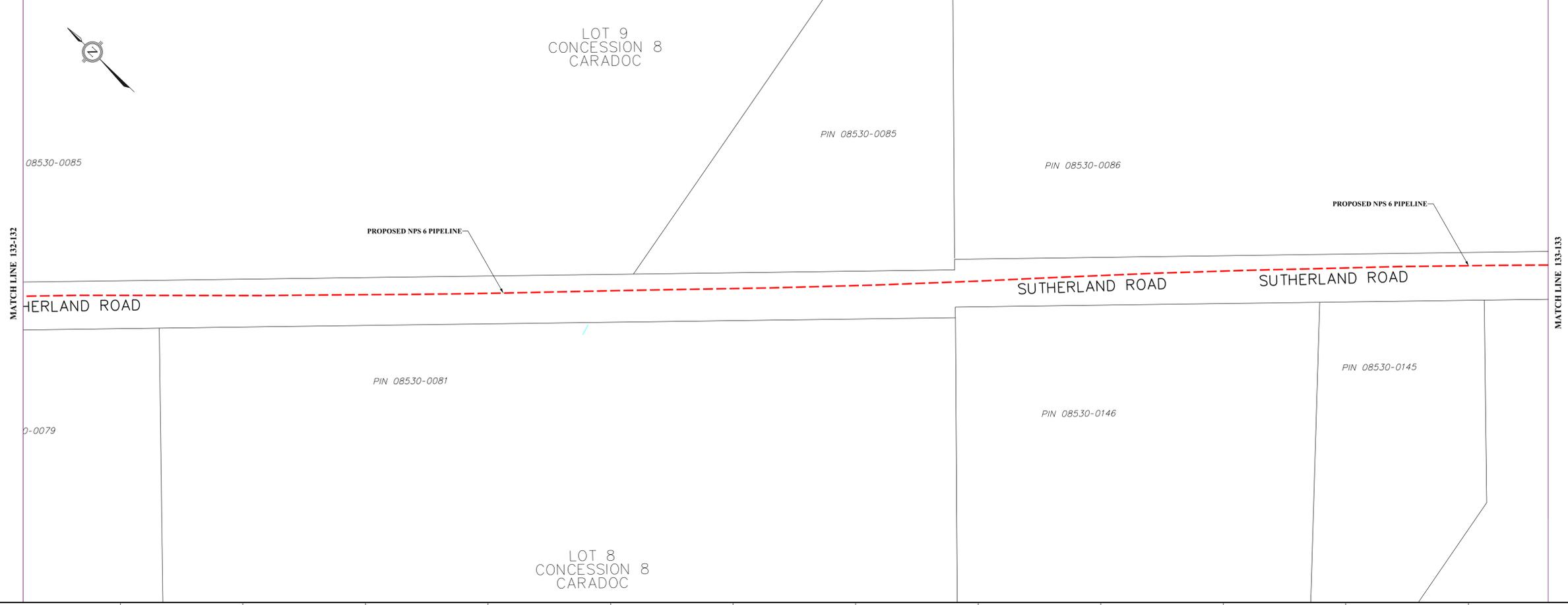
SIZE STRIP	SHEET 67 OF 73	DRAWING No.
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MATCH LINE 131-131

MATCH LINE 132-132

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

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



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
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DESIGN PARAMETERS

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- DESIGN PRESSURE - 3447 kPa

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LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

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SIZE STRIP	SHEET 67 OF 73	DRAWING No.
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A B C D E F G H J K L M N O P Q

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

MATCH LINE 133-133

MATCH LINE 134-134

LOT 9
CONCESSION 8
CARADOC

PIN 08530-0086

LOT 9
CONCESSION 7
CARADOC

PIN 08526-0121

TLU - 30.0m x 30.0m
0.22 acres

PROPOSED NPS 6 PIPELINE

SUTHERLAND ROAD

SUTHERLAND ROAD

SCOTCHMERE DRIVE

SCOTCHMERE DRIVE

PIN 08530-0146

PIN 08530-0083

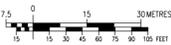
PIN 08525-0030

LOT 8
CONCESSION 7
CARADOC

PIN 08525-0031

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
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DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

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CHECKED BY	AC	DATE		CAD CODE:	
APPROVED BY		DATE		FILE REVISION DATE	

SIZE STRIP	SHEET 68 OF 73	DRAWING No.	
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A B C D E F G H J K L M N O P Q

MATCH LINE 134-134

MATCH LINE 135-135

LOT 9
CONCESSION 7
CARADOC

PIN 08526-0121

PIN 08526-0002

PROPOSED NPS 6 PIPELINE

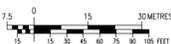
SUTHERLAND ROAD

PIN 08526-0030

LOT 8
CONCESSION 7
CARADOC

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
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- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
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- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

NO.	DATE	BY	APPD	REVISIONS	REMARKS

ENGINEER:



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

DRAWN BY	SD	DATE	2020-08-24	PLOT SPEC:	1:1000
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APPROVED BY		DATE		FILE REVISION DATE	

SIZE STRIP	SHEET 68 OF 73	DRAWING No.	
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A B C D E F G H J K L M N O P Q

LOT 9
CONCESSION 7
CARADOC

PIN 08526-0002

LOT 9
CONCESSION 6
CARADOC

PIN 08526-0033

TLU - 30.0m x 30.0m
0.22 acres

PROPOSED NPS 6 PIPELINE

INADALE ROAD

INADALE ROAD

SUTHERLAND ROAD

SUTHERLAND ROAD

PIN 08525-0032

PIN 08525-0034

PIN 08525-0035
OWNER: MORRISON, JOSEPH; SAUNDERS, JANET WINNIFRED

PIN 08525-0037

LOT 8
CONCESSION 6
CARADOC

LOT 8
CONCESSION 7

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
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- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

#	2020-09-24	SD	AC	DEB FILING
NO.	DATE	BY	APPD	REMARKS

ENGINEER:

REVISIONS



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

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APPROVED BY		DATE		FILE REVISION DATE	

SIZE STRIP	SHEET 69 OF 73	DRAWING No.
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LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
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DESIGN PARAMETERS

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NO.	DATE	BY	APPD	REMARKS

ENGINEER:

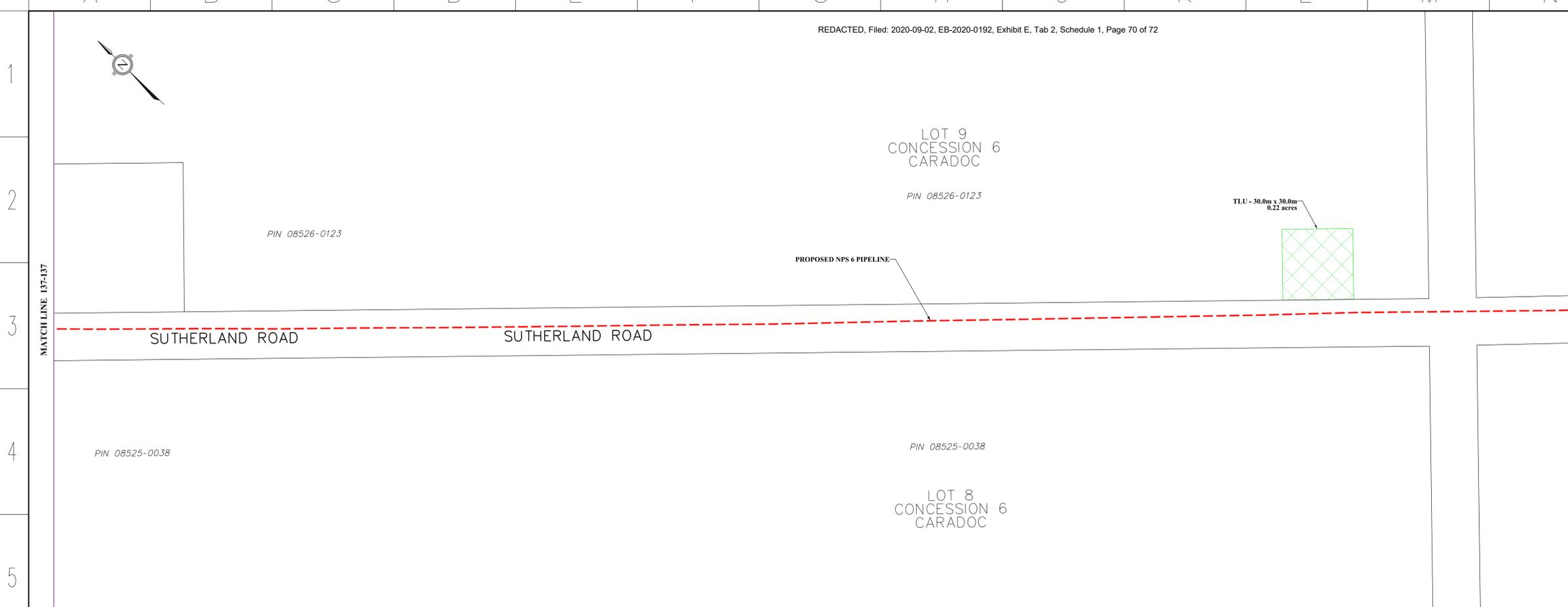
REVISIONS



LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

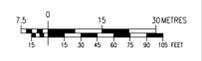
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SIZE STRIP	SHEET 69 OF 73	DRAWING No.
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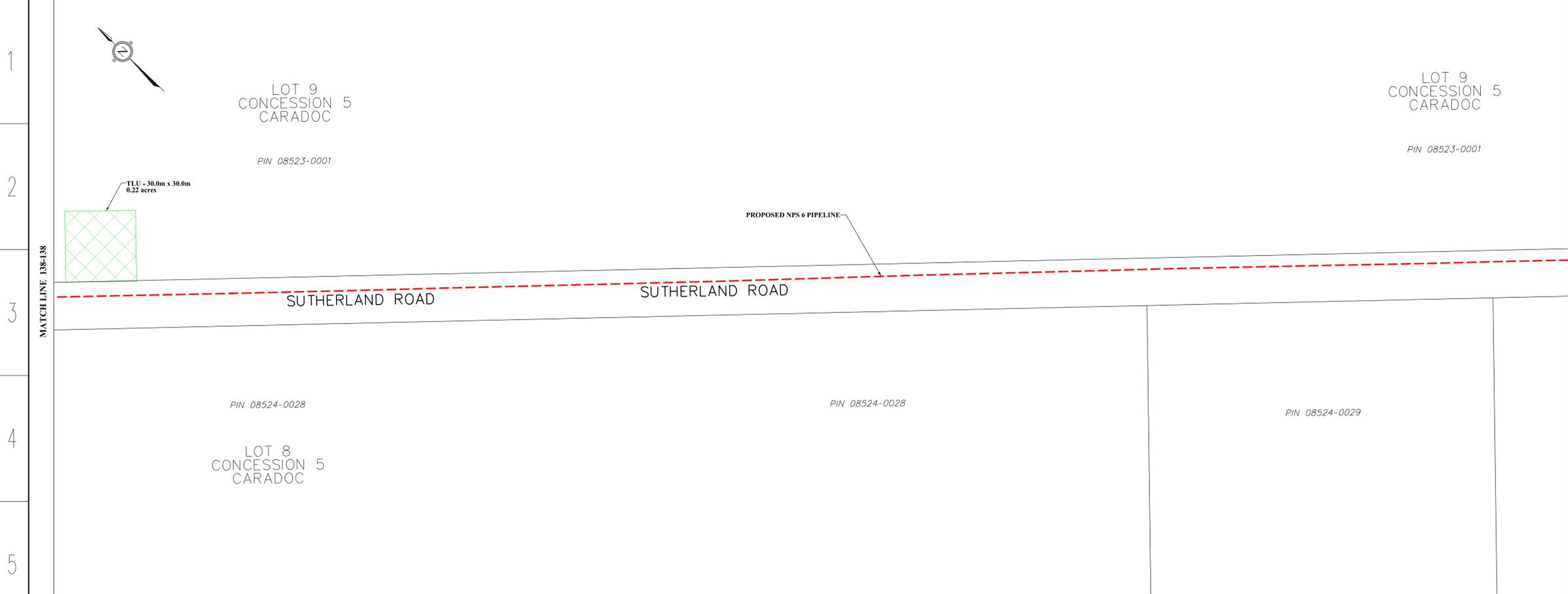
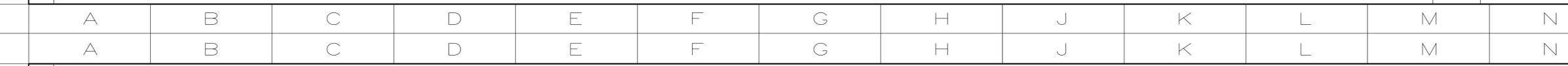


LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
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- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -

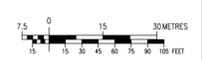


DESIGN PARAMETERS		NO.	DATE	BY	APPD.	REVISIONS	REMARKS		
- DESIGNED TO CSA 2662-15									
- DESIGN PRESSURE - 3447 kPa									
ENGINEER:		<p>LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021</p>							
DRAWN BY: SD	DATE: 2020-08-24							PLT SPEC:	1:1000
CHECKED BY: AC	DATE:							CAD CODE:	
APPROVED BY:	DATE:							FILE REVISION DATE:	
SIZE STRIP	SHEET 70 OF 73	DRAWING No.							



LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS		NO.	DATE	BY	APPD.	REVISIONS	REMARKS		
- DESIGNED TO CSA 2662-15									
- DESIGN PRESSURE - 3447 kPa									
ENGINEER:		<p>LONDON LINES REPLACEMENT PROJECT MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021</p>							
DRAWN BY: SD	DATE: 2020-08-24							PLT SPEC:	1:1000
CHECKED BY: AC	DATE:							CAD CODE:	
APPROVED BY:	DATE:							FILE REVISION DATE:	
SIZE STRIP	SHEET 70 OF 73	DRAWING No.							



MATCH LINE 139-139

MATCH LINE 140-140

LOT 9
CONCESSION 5
CARADOC
PIN 08523-0002

PIN 08523-0001

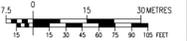
PIN 08523-0001

PIN 08524-0030

LOT 8
CONCESSION 5
CARADOC
PIN 08524-0030

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	2020-08-24	SD	AC	DEB FILING
NO.	DATE	BY	APPD	REMARKS

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

DRAWN BY SD	DATE 2020-08-24	PLOT SPEC: 1:1000
CHECKED BY AC	DATE	CAD CODE:
APPROVED BY	DATE	FILE REVISION DATE

SIZE STRIP	SHEET 71 OF 73	DRAWING No.
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SUTHERLAND ROAD

SUTHERLAND ROAD

CENTURY DRIVE

CENTURY DRIVE

LOT 9
CONCESSION 4
CARADOC
PIN 08523-0051

PIN 08523-0051

SUTHERLAND ROAD

SUTHERLAND ROAD

PIN 08524-0065

LOT 8
CONCESSION 4
CARADOC
PIN 08524-0065

PIN 08524-0065

PIN 08524-00

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA 2662-15
- DESIGN PRESSURE - 3447 kPa

#	2020-08-24	SD	AC	DEB FILING
NO.	DATE	BY	APPD	REMARKS

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

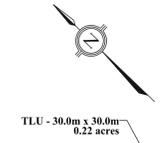
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CHECKED BY AC	DATE	CAD CODE:
APPROVED BY	DATE	FILE REVISION DATE

SIZE STRIP	SHEET 71 OF 73	DRAWING No.
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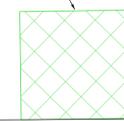


MATCH LINE 141-141

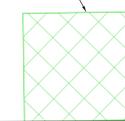
MATCH LINE 142-142 (PAGE 5)



TLU - 30.0m x 30.0m
0.22 acres



TLU - 30.0m x 30.0m
0.22 acres



PIN 08523-0054

PROPOSED NPS 6 PIPELINE

SUTHERLAND ROAD

PIN 08524-0068

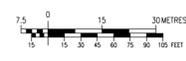
PIN 08523-0100

PIN 08524-0067

PIN 08524-0049

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA Z662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REMARKS
1	2020-08-24	SD	AC	DEB FILING

ENGINEER:

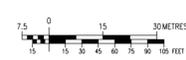
ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

DRAWN BY	SD	DATE	2020-08-24	PLLOT SPEC:	1:1000
CHECKED BY	AC	DATE		CAD CODE:	
APPROVED BY		DATE		FILE REVISION DATE	
SIZE STRIP		SHEET	72 OF 73	DRAWING No.	

LEGEND

- PROPOSED NPS 6 PIPELINE (3447 kPa) - - - - -
- EXISTING PIPELINE TO BE REMOVED/ABANDONED - - - - -
- PROPOSED ENBRIDGE EASEMENT - - - - -
- NEW PROPOSED ENBRIDGE EASEMENT - - - - -
- TEMPORARY ENBRIDGE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- MINIMUM DISTURBANCE ZONE - - - - -
- EXISTING DRAIN/STREAM/WATERCOURSE - - - - -



DESIGN PARAMETERS

- DESIGNED TO CSA Z662-15
- DESIGN PRESSURE - 3447 kPa

#	DATE	BY	APPD	REMARKS
1	2020-08-24	SD	AC	DEB FILING

ENGINEER:

ENBRIDGE
Life Takes Energy

LONDON LINES REPLACEMENT PROJECT
MUNICIPALITY OF STRATHROY-CARADOC - CONSTRUCTION 2021

DRAWN BY	SD	DATE	2020-08-24	PLLOT SPEC:	1:1000
CHECKED BY	AC	DATE		CAD CODE:	
APPROVED BY		DATE		FILE REVISION DATE	
SIZE STRIP		SHEET	72 OF 73	DRAWING No.	

LONDON LINES REPLACEMENT PROJECT

		NAME & ADDRESS	PROPERTY DESCRIPTION	FEE SIMPLE Dimensions (Metres) W x L Hectares	PERMANENT EASEMENT Dimensions (Metres) W x L Hectares	TEMPORARY EASEMENT Dimensions (Metres) W x L Hectares	MORTGAGE, LIEN/LEASE &/OR ENCUMBRANCES
along BENTPATH LINE							
L1	43385-0075	[REDACTED]	PT LT 24-25 CON 2 DAWN AS IN L772039, SRO AS IN L273419, L209309 (FIRSTLY & THIRDLY) TOGETHER WITH AN EASEMENT OVER PART 3, 25R5117 AS IN LA117970 TOWNSHIP OF DAWN-				
L2	43380-0051	[REDACTED]	PT LT 25 CON 2 DAWN PTS 1,2,3,4 25R9298; S/T EASEMENT PTS 3,4 25R9298 IN FAVOUR OF ONTARIO NATURAL GAS STORAGE & PIPELINES				
L3	43385-0151	[REDACTED]	PT LT 25 CON 2 DAWN PT 5 25R9298; DAWN-EUPHEMIA				
CUTHBURT ROAD							
L4	43385-0118	[REDACTED]	W 1/2 OF W 1/2 LT 25 CON 3 DAWN EXCEPT PT 1, 25R5134 & L859848; DAWN-EUPHEMIA			30 x 300.7 0.931	m) NBD BANK, CANADA
L5	43385-0116	[REDACTED]	PT LT 25 CON 3 DAWN AS IN L859848; S/T L113935, L285494, L560076; DAWN-EUPHEMIA			10 x 32.9 0.033	e) LAGASCO INC. m) Bank of Montreal
L6	43385-0179	[REDACTED]	PART LOT 25, CONCESSION 3, DAWN, PARTS 3 AND 4, 25R10941; DAWN-EUPHEMIA			30 x 306.9 0.919	e) LAGASCO INC.
L7	43385-0119	[REDACTED]	PT LT 25 CON 3 DAWN AS IN L906838; DAWN-EUPHEMIA			10 x 38.2 0.038	e) LAGASCO INC. m) LAMBTON FINANCIAL CREDIT UNION LTD
L8	43385-0178	[REDACTED]	PART LOT 25, CONCESSION 3, DAWN, PARTS 5, 6 AND 7, 25R10941; DAWN-EUPHEMIA			30 x 674.4 2.080	e) LAGASCO INC.
ROBINSON ROAD							
L9	43382-0053	[REDACTED]	NW1/4 LT 25 CON 4 DAWN S/T L95135; DAWN-EUPHEMIA			30 x 680.1 2.068	m) LAMBTON FINANCIAL CREDIT UNION LTD e) LAGASCO INC.
L10	43382-0072	[REDACTED]	PT NE1/4 LT 25 CON 4 DAWN AS IN L944457; S/T INTEREST IN L944457; DAWN-EUPHEMIA			10 x 120.3 0.120	m) Douglas, Marjorie Elaine L944459
L11	43382-0071	[REDACTED]	PT NE1/4 LT 25 CON 4 DAWN AS IN L597613 & L597614; DAWN-EUPHEMIA			10 x 30.5 0.030	m) Bank of Montreal
MARTHAVILLE ROAD							
L12	43382-0073	[REDACTED]	PT NW1/4 LT 25 CON 5 DAWN AS IN L834695; DAWN-EUPHEMIA			10 x 40.0 0.040	e) LAGASCO INC.

LONDON LINES REPLACEMENT PROJECT 2021

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	FEE SIMPLE			PERMANENT EASEMENT			TEMPORARY EASEMENT			MORTGAGE, LIEN/LEASE &/OR ENCUMBRANCES			
				Dimensions (Metres)												
				W	x	L	Hectares	W	x	L	Hectares	W	x	L	Hectares	
L13	43382-0074	[REDACTED]	PT W1/4 LT 25 CON 5 DAWN AS IN L237713; DAWN-EUPHEMIA									30	x	297.1	0.891	m) Bank of Montreal
L14	43382-0075	[REDACTED]	E 3/4 OF N1/2 LT 25 CON 5 DAWN; DAWN- EUPHEMIA									30	x	1002.3	3.059	
TRAMWAY ROAD																
L15	43382-0092	[REDACTED]	N1/2 OF W1/2 LOT 25 CONCESSION 6 DAWN; DAWN-EUPHEMIA									30	x	686.5	2.100	m) FARM CREDIT CANADA
L16	43382-0153	[REDACTED]	EAST 1/2 LOT 25 CONCESSION 6, DAWN, EXCEPT PT 1, 25R3965, L208376 & PART 1, 25R10533 TOWNSHIP OF DAWN-EUPHEMIA									30	x	428.8	1.286	m) LIBRO CREDIT UNION LIMITED
												30	x	172.2	0.530	
L17	43882-0152	[REDACTED]	PART LOT 25 CONCESSION 6, DAWN, PART 1, 25R10533 TOWNSHIP OF DAWN-EUPHEMIA									10	x	54.8	0.055	m) CIBC
L18	43382-0095	[REDACTED]	PT LT 25 CON 6 DAWN PT 1, 25R3965; DAWN- EUPHEMIA													
ESTERVILLE ROAD																
L19	43380-0051	[REDACTED]	W1/4 LT 25 CON 7 DAWN; S/T L843351; DAWN- EUPHEMIA									30	x	336.8	1.010	m) THE TORONTO-DOMINION BANK e) LAGASCO INC.
L20	43380-0052	[REDACTED]	E1/2 OF W1/2 LT 25 CON 7 DAWN; DAWN- EUPHEMIA									30	x	340.2	0.813	DUFF, DOUGLAS ROSS (LA169088) m) LIBRO CREDIT UNION LIMITED NEST CAPITAL MORTGAGE INVESTMENT CORPORATION (LA236797) e) LAGASCO INC.
L21	43380-0054	[REDACTED]	PT LT 25 CON 7 DAWN AS IN L110272; EXCEPT 25R446, 25R1874, PP899 AND PP1011; DAWN- EUPHEMIA									30	x	721.0	2.169	
OIL HERITAGE ROAD																
L22	43380-0071	[REDACTED]	PT LT 25 CON 8 DAWN AS IN L170359; EXCEPT 25R446, PP1011 AND L195855; DAWN-EUPHEMIA									30	x	486.0	1.481	
L23	43380-0073	[REDACTED]	PT LT 25 CON 8 DAWN AS IN L869332; DAWN- EUPHEMIA									30	x	683.0	2.049	m) ST.WILLIBRORD COMMUNITY CREDIT UNION LTD e) LAGASCO INC. e) LAKEVILLE HOLDINGS INC. now LAGASCO INC.

LONDON LINES REPLACEMENT PROJECT 2021

		NAME & ADDRESS	PROPERTY DESCRIPTION	FEE SIMPLE Dimensions (Metres) W x L Hectares	PERMANENT EASEMENT Dimensions (Metres) W x L Hectares	TEMPORARY EASEMENT Dimensions (Metres) W x L Hectares	MORTGAGE, LIEN/LEASE &/OR ENCUMBRANCES
PANTRY SCHOOL ROAD							
L24	43380-0089	[REDACTED]	PT LT 25 CON 9 DAWN AS IN L941103; DAWN-EUPHEMIA	20 x 30 0.077		30 x 682.3 1.789	MCINTYRE, DENISE (L938126) ALBERTA GAS PRODUCTS LAGASCO INC. LAKEVILLE HOLDINGS INC now LAGASCO INC.
L25	43380-0091	[REDACTED]	E1/2 LT 25 CON 9 DAWN EXCEPT PP1011; S/T DN25297; DAWN-EUPHEMIA			30 x 685.1 2.108	m) Bank of Montreal LAGASCO INC.
GOULD ROAD							
L26	43377-0053	[REDACTED]	PT LT 25 CON 10 DAWN AS IN L878370, S/T INTEREST IN L878370; S/T EXECUTION 04-0000055, IF ENFORCEABLE; S/T EXECUTION 95-0000557, IF ENFORCEABLE; S/T EXECUTION 95-0001089, IF ENFORCEABLE; S/T EXECUTION 98-0000624, IF ENFORCEABLE; DAWN-EUPHEMIA			30 x 518.9 1.557	PPC OIL & GAS CORP. CANENERCO LIMITED CLEARBEACH RESOURCES INC. CRICH HOLDINGS AND BUILDINGS LIMITED A.L. LESTER LIMITED LINDROSS HOLDINGS (SARNIA) LTD. m) PACE SAVINGS & CREDIT UNION LTD
L27	43377-0054	[REDACTED]	PT LT 25 CON 10 DAWN AS IN L243772; S/T EXECUTION 95-0000557, IF ENFORCEABLE; S/T EXECUTION 98-0000624, IF ENFORCEABLE; DAWN-EUPHEMIA			30 x 504.8 1.360	CANENERCO LIMITED PPC OIL & GAS CORP.
L28	43377-0055	[REDACTED]	PT LT 25 CON 10 DAWN AS IN L878370, EXCEPT PT 15, PP1011, S/T INTEREST IN L878370; S/T L469045; S/T EXECUTION 04-0000055, IF ENFORCEABLE; S/T EXECUTION 95-0000557, IF			30 x 342.2 1.008	PPC OIL & GAS CORP. CANENERCO LIMITED
HUFFS CORNERS ROAD							
L29	43377-0066	[REDACTED]	PT LT 25 CON 11 DAWN AS IN L859684 EXCEPT PT 16, PP1011; DAWN-EUPHEMIA			30 x 341.4 1.012	SEEMACK OIL & GAS LTD.
L30	43377-0067	[REDACTED]	PT LT 25 CON 11 DAWN AS IN L899667, L848084, EXCEPT PT 1, 25R8711; DAWN-EUPHEMIA			30 x 1010.1 3.059	m) ROYAL BANK OF CANADA
HALE SCHOOL ROAD							
L31	43374-0056	[REDACTED]	PART OF LOT 25 CON 12 DAWN AS IN L505239 TOWNSHIP OF DAWN-EUPHEMIA			30 x 700.6 2.102	m) TD BANK

LONDON LINES REPLACEMENT PROJECT 2021

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	FEE SIMPLE			PERMANENT EASEMENT			TEMPORARY EASEMENT			MORTGAGE, LIEN/LEASE &/OR ENCUMBRANCES
				W	x	L Hectares	W	x	L Hectares	W	x	L Hectares	
L32	43374-0058	[REDACTED]	PT LT 25 CON 12 DAWN PT 1, 25R3405; S/T L253907; DAWN-EUPHEMIA						30	x	829.7	2.501	m) TD BANK NORMAN VANROBOY'S LEASING LTD DIDOCHA, BARBARA (L486934) (L523281)
OAKDALE ROAD													
L33	43374-0088	[REDACTED]	PT LT 24-25 CON 13 DAWN AS IN L822203, EXCEPT L283853 (SECONDLY); S/T L253908; DAWN-EUPHEMIA	20	x	40	0.08		30	x	781.5	2.489	MICHIGAN OIL COMPANY
NAYLOR ROAD													
along DRIESSENS LINE - eastbound													
along FOREST ROAD - nothbound													
along MOSSIDE ROAD -eastbound													
McCAULSAN ROAD													
INWOOD ROAD													
L34	43372-0094	[REDACTED]	PT LT 30 CON 3 EUPHEMIA AS IN L410171; S/T EU14055; DAWN-EUPHEMIA	20	x	43	0.086		10	x	73.7	0.074	m) Lambton Finicial Credit Union Limited
L35	43372-0096	[REDACTED]	E1/2 LT 30 CON 3 EUPHEMIA; S/T EU14035; DAWN-EUPHEMIA						30	x	30.0	0.090	m) Lambton Finicial Credit Union Limited
									30	x	30.0	0.090	
BUR ROAD													
L36	43369-0103	[REDACTED]	NE 1/2 LT 30 CON 4 EUPHEMIA; S/T EU14037; DAWN-EUPHEMIA						30	x	30.0	0.090	m) Farm Credit Canada
									30	x	30.0	0.090	
DOBBYN ROAD													
L37	43369-0178	[REDACTED]	PT LT 30 CON 5 EUPHEMIA PT 2 & 3, 25R7278 EXCEPT PT 1 PLAN 25R9786; S/T EU14038, EU14039, EU14053; DAWN-EUPHEMIA						30	x	84.0	0.252	m) Farm Credit Canada
L38	43369-0122	[REDACTED]	PT LT 29-30 CON 5 EUPHEMIA PT 1, 25R2826; S/T EU14096; DAWN-EUPHEMIA						30	x	37.0	0.111	m) Lawson, Thomas Robert Lawson, Norma Margaret [REDACTED]
L39	43369-0135	[REDACTED]	PT LT 30 CON 6 EUPHEMIA AS IN L748713; S/T EU14040; DAWN-EUPHEMIA						30	x	40.0	0.120	m) Farm Credit Canada
									30	x	30.0	0.090	
									30	x	30.0	0.090	
SMITH FALLS ROAD													
DOWNIE ROAD													
L40	43368-0073	[REDACTED]	W 1/2 LT 31 CON 7 EUPHEMIA; DAWN-EUPHEMIA						30	x	30.0	0.090	m) Libro Credit Union Limited
									30	x	30.0	0.090	l) South Bend Petroleums Limited
CAIRO ROAD													
L41	43368-0123	[REDACTED]	E 1/2 LT 31 CON 8 EUPHEMIA; W 1/2 LT 31 CON 8 EUPHEMIA EXCEPT PP718 & PT 6, 25R319 TOWNSHIP OF DAWN-EUPHEMIA						30	x	30.0	0.090	m) Bank of Montreal

LONDON LINES REPLACEMENT PROJECT 2021

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	FEE SIMPLE	PERMANENT EASEMENT	TEMPORARY EASEMENT	MORTGAGE, LIEN/LEASE &/OR ENCUMBRANCES
				Dimensions (Metres) W x L Hectares	Dimensions (Metres) W x L Hectares	Dimensions (Metres) W x L Hectares	
JOHNSTON ROAD							
McCREADY ROAD							
CAMERON ROAD							
along WATERWORTH ROAD - northbound							
along ARGYLL ROAD - eastbound							
along BIG BEND ROAD - southbound							
along OILFIELD ROAD - eastbound							
L42	08572-0037	[REDACTED]	PT LT 11, CON 5 , PART 4, 5, 6 & 7 , 34R743 ; MOSA	20 x 30 0.060		10 x 89.1 0.089	
L43	08572-0055	[REDACTED]	PT LT 9 CON 6 BEING S 1/2 SAVE AND EXCEPT PT 1 PL 33R-13461, MOSA MUNICIPALITY OF SOUTHWEST MIDDLESEX			30 x 30.0 0.090 30 x 30.0 0.090	m) CIBC
along PRATT SIDING ROAD - southbound							
L44	08572-0051	[REDACTED]	PT LTS 9 & 10, CON 5 , AS IN 946398 & 946396 ; S/T MW43566 ; MOSA ; SUBJECT TO EXECUTION 94-1849, IF ENFORCEABLE. ;			30 x 30.0 0.090 30 x 30.0 0.090 30 x 30.0 0.090 30 x 30.0 0.090	l) Liberty Oil & Gas LTD
KNAPDALE ROAD							
L45	08569-0027	[REDACTED]	PT LT 9, CON 4 MOSA , LYING N OF RAILWAY, AS IN MW61311 MUNICIPALITY OF SOUTHWEST MIDDLESEX			16.6 x 40.0 0.066	m) Bank of Montreal
L46	08569-0026	[REDACTED]	PT LT 9, CON 4 MOSA , LYING S OF RAILWAY, AS IN MW61311 MUNICIPALITY OF SOUTHWEST MIDDLESEX			16.6 x 40.0 0.066	m) Bank of Montreal
along CPR DRIVE - eastbound							
OLD AIRPORT ROAD							
L47	08570-0050	[REDACTED]	PT LT 2, CON 3, AS IN MW80254 ; S/T 948129 SOUTHWEST MIDDLESEX TWP.			30 x 30.0 0.090 30 x 30.0 0.090	m) Bank of Montreal
along DUNDONALD ROAD - southbound							
L48	08570-0051	[REDACTED]	PT LTS 1 & 2, CON 3, AS IN 929732, EXCEPT PART 1, 33R10958 ; S/T MO14204 ; MOSA ; SUBJECT TO EXECUTION 94-1849, IF ENFORCEABLE			30 x 40.0 0.120	e) Hydro Electric Power Commision
L49	08540-0019	[REDACTED]	PT LT 24 CON 3 IN 910767 EXCEPT MM531 ; ; EKFRID ; SUBJECT TO EXECUTION 93-1402, IF ENFORCEABLE. ;			30 x 111.5 0.324	m) Royal Bank of Canada e) Corporation of the Township of Ekfrid
along FALCONBRIDGE DRIVE - eastbound							
TAITS ROAD							
L50	08544-0016	[REDACTED]	N 1/2 LT 19, CON 2 ; S/T EK16749 ; EKFRID ; SUBJECT TO EXECUTION 94-0744, IF ENFORCEABLE. ; SUBJECT TO EXECUTION 94-2486, IF ENFORCEABLE. ; SUBJECT TO EXECUTION 95-			30 x 30.0 0.090	

LONDON LINES REPLACEMENT PROJECT 2021

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	FEE SIMPLE			PERMANENT EASEMENT			TEMPORARY EASEMENT			MORTGAGE, LIEN/LEASE &/OR ENCUMBRANCES		
				Dimensions (Metres)											
				W	x	L	Hectares	W	x	L	Hectares	W	x	L	Hectares
L51	08544-0330	[REDACTED]	N 1/2 LT 18, CON 2 EKFRID SAVE & EXCEPT PTS 1 & 2, 33R-17798; SUBJECT TO EASEMENT AS IN EK16743 (AMENDED BY MW54069) MUNICIPALITY OF SOUTHWEST MIDDLESEX							30	x	30.0	0.090	m) Farm Credit Canada	
McARTHUR ROAD															
L52	08545-0006	[REDACTED]	E 1/2 OF N 1/2 LT 14, CON 2 ; S/T EK16637;MUNICIPALITY OF SOUTHWEST MIDDLESEX/EKFRID							30	x	30.0	0.090	m) Farm Credit Canada	
L53	08545-0041	[REDACTED]	W 1/2 OF N 1/2 LT 13, CON 2, S/T EK16638 AS PARTIALLY SURRENDERED BY MW50589; S/T EK15305, EK17377; EKFRID MUNICIPALITY OF							30	x	30.0	0.090	e) Bell Telephone Company of Canada m) Farm Credit Canada	
L54	08545-0042	[REDACTED]	PT LT 13, CON 2 IN 935810 ; S/T EK16640 EKFRID							30	x	57.0	0.150		
THAMES ROAD															
L55	08545-0244	[REDACTED]	PT LT 12, CON 2 AS IN MW75002 & MW56044 S/E PARTS 1 & 5, 34R-789 & PT 1 & 2, 33R-13282; S/T EASE OVER PART 1, 33R-13349; TWP OF EKFRID							30	x	30.0	0.090	m) Bank of Montreal	
MAYFAIR ROAD															
L56	08538-0073	[REDACTED]	E 1/2 OF S 1/2 LT 8, CON 3; S/T INTEREST IF ANY EK36613 ; S/T MM715 EKFRID							30	x	30.0	0.090		
L57	08538-0066	[REDACTED]	PT LT 7, CON 3 , AS IN 911691 ; S/T MM716 EKFRID							30	x	30.0	0.090	e) Ontario Hydro m) Royal Bank	
SPRINGFIELD ROAD															
L58	08546-0046	[REDACTED]	PT OF LT 1, CON 2 AS IN MW85688 EXCEPT PT 1 34R2162, S/T EK16645 PARTIALLY SURRENDERED BY MW41466 ; S/T							20	x	40.0	0.080	e) Hydro Electric Power Commision of Ontario	
MELBOURNE ROAD															
L59	08516-0001	[REDACTED]	PART LOT 1, CONCESSION 3 CARADOC AS IN ER817364; S/T CA28898, MM732 MUNICIPALITY OF STRATHROY-CARADOC							20	x	30.0	0.060	e) Ontario Hydro m) TD Bank	
L60	08516-0008	[REDACTED]	N 1/2 LT 2, PT SE 1/2 LT 2, PT N 1/2 LT 3 CON 3, PTS 1, 2, 12, 13 & 14 34R1671 & PT S 1/2 LT 3 CON 3, PTS 1 & 2 34R1714 S/T CA26329, CA28899,							20	x	40.0	0.080	e) Bell Telephone Company of Canada	
L61	08524-0037	[REDACTED]	PT LT 2 CON 4, PT 1 MM848, PT 1 34R1268, PT 2 34R1879 & PT SE 1/2 LT 3 CON 4 AS IN 904468 TOWNSHIP OF STRATHROY-CARADOC/CARADOC							30	x	60.0	0.180		
GLEN OAK ROAD															
SUTHERLAND ROAD															
L62	08517-0001	[REDACTED]	NW 1/2 LT 9 CON 3; EXCEPT PT 1 34R1505 S/T MW51122 STRATHROY-CARADOC TWP							20	x	40.0	0.080	m) Mainstreet Credit Union Limited	
		[REDACTED]								20	x	40.0	0.080		

LONDON LINES REPLACEMENT PROJECT 2021

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	FEE SIMPLE			PERMANENT EASEMENT			TEMPORARY EASEMENT			MORTGAGE, LIEN/LEASE &/OR ENCUMBRANCES			
				Dimensions (Metres)			Dimensions (Metres)			Dimensions (Metres)						
				W	x	L	Hectares	W	x	L	Hectares	W	x	L	Hectares	
L63	08517-0012	[REDACTED]	NW 1/2 LT 12 CON 3; EXCEPT PT 1 34R537 & BLW287; S/T CA28907 AS PARTIALLY SURRENDERED BY MW71137 S/T CA27633,									30	x	30.0	0.090	e) Hydro Electric Power Commision of Ontario m) Farm Credit Canada
CHRISTINA ROAD																
L64	08517-0016	[REDACTED]	PT LT 13 CON 3 AS IN MW82782 CARADOC; S/T CA27659, CA28929, CA31865; MUNICIPALITY OF STRATHROY-CARADOC									30	x	30.0	0.090	e) Hydro Electric Power Commision of Ontario
L65	08517-0035	[REDACTED]	PT N 1/2 LT 16 CON 3 AS IN MW105769; S/T CA28910 AS PARTIALLY SURRENDERED BY MW77390 STRATHROY-CARADOC TWP/CARADOC									15	x	20.0	0.030	m) Royal Bank
ROUGHAM ROAD																
L66	08521-0108	[REDACTED]	LOTS 18, 19, 21, & 22, PLAN 34M-7; AND LOT 20, PLAN 34M-7 S/E PART 1, 33R-13122; (34M-7 IS NOT A PLAN OF SUBDIV WITHIN THE MEANING OF THE PLANNING ACT BA 333); S/T CA26369, CA29684 & MM365; TOWNSHIP OF STRATHROY-	20	X	30	0.056					IRR	X	IRR	0.193	e) Bell Canada m) Bank of Montreal
ADELAIDE ROAD																
L67	08520-0008	[REDACTED]	PARCEL 1-1, SECTION 34M11 LT 1 PLAN 34M11; 34M11 NOT A PLAN OF SUBDIV WITHIN THE MEANING OF PLANNING ACT (BA954) TOWNSHIP									30	x	30.0	0.090	
SPRINGWELL ROAD																
L68	08522-0094	[REDACTED]	PT N 1/2 LT 22 CON 3 AS IN MW77002; EXCEPT PT 25 34R687; "DESCRIPTION IN MW77002 MAY NOT BE ACCEPTABLE IN FUTURE" TOWNSHIP OF									30	x	30.0	0.090	
HIGHWAY 402																
along AVRO DRIVE - eastbound																
L69	08522-0102	[REDACTED]	PT LT 23 CON 3 AS IN MW106522 TOWNSHIP OF STRATHROY-CARADOC/CARADOC									10	x	irr	0.328	m) CIBC
along AMIENS ROAD - southbound																
OXBOW DRIVE																
ORIOLE DRIVE																
L70	09660-0071	[REDACTED]	PT LT 1, CON 2, AS IN 120109; MIDDLESEX CENTRE TWP/LOBO TWP									16.6	x	15.0	0.025	
L71	09660-0072	[REDACTED]	PT LT 1, CON 2, PART 1, 33R561; MUNICIPALITY OF MIDDLESEX CENTRE/LOBO TWP									16.6	x	15.0	0.025	m) Bank of Nova Scotia
L72	09660-0076	[REDACTED]	PT LTS 1 & 2, CON 2, PTS 2, 3, 4 & 5, 33R11865, S/T LQ12957 PARTIALLY SURRENDERED BY 164639, S/T LQ12959 PARTIALLY SURRENDERED BY 164640; S/T 945287; MIDDLESEX CENTRE									16.6	x	30.0	0.050	
along GLENDON DRIVE - eastbound																

LONDON LINES REPLACEMENT PROJECT 2021

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	FEE SIMPLE	PERMANENT EASEMENT	TEMPORARY EASEMENT	MORTGAGE, LIEN/LEASE &/OR ENCUMBRANCES
				Dimensions (Metres) W x L Hectares	Dimensions (Metres) W x L Hectares	Dimensions (Metres) W x L Hectares	
L73	09660-0107	[REDACTED]	PCL 4-1, SEC 33-LOBO-2 ; PT LT 4, CON 2 , PART 1, 2, 3 & 4 , 33R4589 ; MIDDLESEX CENTRE TWP/LOBO TWP			30 x 30.0 0.090	
L74	08512-0156	[REDACTED]	PART LOT 4, CONCESSION 1 LOBO TWP DESIGNATED AS PARTS 1 & 2, PLAN 33R-17803 TOGETHER WITH AN EASEMENT OVER PT 1		5 x 80.6 0.040		e) Municipality of Middlesex Centre
L75	08512-0072	[REDACTED]	PT LT 4 CON 1, PT 1 33R16300 SUBJECT TO AN EASEMENT IN GROSS OVER PTS 1,2,4,5,6 33R19583 AS IN ER1076795 SUBJECT TO AN EASEMENT IN FAVOUR OF PTS 1,2 33R17803 AS IN ER1096956 SUBJECT TO AN EASEMENT OVER PT 1 33R16300 IN FAVOUR OF PT 4 33R17803 AS IN ER1107767 SUBJECT TO AN EASEMENT OVER PTS 1,2,3 33R19583 IN FAVOUR OF MIDDLESEX VACANT LAND CONDOMINIUM CORPORATION NO. 885 AS IN ER1162909 SUBJECT TO AN EASEMENT OVER PTS 1,2,3 33R19583 IN FAVOUR		10 x 195.9 0.196		e) Municipality of Middlesex Centre e) Lupine Properties Limited e) Goodwins International Corporation e) Middlesex Vacant Land Condominium Corporation No. 885 e) 2536221 Ontario Inc. m) Carvest Properties Limited
along KOMOKA ROAD - southbound							
L76	08502-0793	[REDACTED]	PT LTS 5 & 6 CON 1 LOBO TWP & ALL LTS 5 & 6 BF CON & ALL OF THE RD ALLOWANCE BETWEEN BF CON & CON 1 THROUGH LTS 5 & 6 CLOSED BY BYLAW 680445 DESIGNATED AS PTS 1 TO 8, BOTH INCL., PL 33R-6395 SAVE & EXCEPT PT 1, PL 33R-12023, S/T EASE OVER PTS 1 TO 4, 7 & 8 PL 33R-6395 AS IN LQ12546, LQ12965 & LQ12972 SUBJECT TO AN EASEMENT OVER PART 1 PLAN 33R-16330 IN FAVOUR OF PART 1 PLAN 33R-12023 AS IN ER641829 MUNICIPALITY OF			0.000	e) Municipality of Middlesex Centre

LONDON LINES REPLACEMENT PROJECT 2021

		NAME & ADDRESS	PROPERTY DESCRIPTION	FEE SIMPLE Dimensions (Metres) W x L Hectares	PERMANENT EASEMENT Dimensions (Metres) W x L Hectares	TEMPORARY EASEMENT Dimensions (Metres) W x L Hectares	MORTGAGE, LIEN/LEASE &/OR ENCUMBRANCES
STRATHROY TAKE OFF							
L77	08530-0035	[REDACTED]	PT LT 9 CON 9, PT 1 34R1184 & MW38284 TOWNSHIP OF STRATHROY-CARADOC/CARADOC				
along CALVERT DRIVE							
along SUTHERLAND ROAD							
WALKERS DRIVE							
SCOTCHMERE DRIVE							
L78	08526-0121	[REDACTED]	NW 1/2 OF LOT 9, CONCESSION 7 CARADOC SAVE AND EXCEPT PART 1, PLAN 33R-17431; S/T CA29246 PARTIALLY RELEASED BY CA31126L S/T			30 x 30.0 0.090	e) Ontario Hydro m) Royal Bank
L79	08526-0002	[REDACTED]	SE 1/2 LT 9 CON 7; S/T CA29252, CA29253, CA29255 PARTIALLY RELEASED BY CA31123, CA31124, CA31125 S/T MM818, MW57213			30 x 30.0 0.090	e) Bell Canada e) Ontario Hydro
INADALE DRIVE							
L80	08526-0123	[REDACTED]	W 1/2 OF S 1/2 LOT 9 CONCESSION 6 CARADOC TWP SAVE & EXCEPT PARTS 1 & 2, PLAN 33R- 18256 SUBJECT TO AN EASEMENT AS IN			30 x 30.0 0.090	m) Farm Credit Canada
OLDE DRIVE							
L81	08523-0001	[REDACTED]	PT LT 9 & PT S 1/2 LT 10 CON 5 AS IN MW87474 S/T CA27644, CA27948, CA31546, CA31842, CA31878 S/T MW57212 CARADOC			30 x 30.0 0.090	e) Bell Canada e) Ontario Hydro Canadian Green Power Investment & Managerment Services Inc
CENTURY DRIVE							
L82	08523-0051	[REDACTED]	PT LT 9 CON 4, PT 2 34R2340 TOWNSHIP OF STRATHROY-CARADOC			30 x 30.0 0.090	
L83	08523-0054	[REDACTED]	PT LT 9 CON 4 AS IN MW103034 S/T MW106623, MW59141 TOWNSHIP OF STRATHROY-CARADOC			30 x 30.0 0.090	e) Bell Canada e) Ontario Hydro

TAKE OFF FROM FALCONBRIDGE ROAD

TEMPORARY LAND USE AGREEMENT

(hereinafter called the "Agreement")

Between

(hereinafter called the "Owner")

and

ENBRIDGE GAS INC.

(hereinafter called the "Company")

In consideration of the sum of _____XX/100 Dollars (\$_____), payable by the Company to the Owner within thirty (30) days of signing of this Agreement in accordance with the Compensation labelled as **Appendix "D"** hereto.

the Owner of **PIN:**

Legal Description: labelled as **Appendix "B"** hereto, hereby grants to the Company, its servants, agents, employees, contractors and sub-contractors and those engaged in its and their business, the right on foot and/or with vehicles, supplies, machinery and equipment at any time and from time to time during the term of this Agreement to enter upon, use and occupy a parcel of land (hereinafter called the "Lands") more particularly described on the Sketch attached hereto labelled as Appendix "A" and forming part of this Agreement, the Lands being immediately adjacent to and abutting the **Choose an item.** for any purpose incidental to, or that the Company may require in conjunction with, the construction by or on behalf of the Company of a proposed **Choose an item.** and appurtenances on the Lands including, without limiting the generality of the foregoing, the right to make temporary openings in any fence (if applicable) along or across the Lands and to remove any other object therein or thereon interfering with the free and full enjoyment of the right hereby granted and further including the right of surveying and placing, storing, levelling and removing earth, dirt, fill, stone, debris of all kinds, pipe, supplies, equipment, vehicles and machinery and of movement of vehicles, machinery and equipment of all kinds.

1. This Agreement is granted upon the following understandings:

- a) The rights hereby granted terminate on the ____ day of ____, 20__.
- b) The Company shall make to the person entitled thereto due compensation for any damages resulting from the exercise of the right hereby granted and if the compensation is not agreed upon it shall be determined in the manner prescribed by Section 100 of The Ontario Energy Board Act, R.S.O. 1998 S.O. 1998, c.15 Schedule B, as amended or any Act passed in amendment thereof or substitution there for;
- c) As soon as reasonably possible after the construction, the Company at its own expense will level the Lands, remove all debris therefrom and in all respects, restore the Lands to their former state so far as is reasonably possible, save and except for items in respect of which compensation is due under paragraph (b) and the Company will also restore any gates and fences interfered with around, (*if applicable*) the Lands as closely and as reasonably possible to the condition in which they existed immediately prior to such interference by the Company.
- d) It is further agreed that the Company shall assume all liability and obligations for any and all loss, damage or injury, (including death) to persons or property that would not have happened but for this Agreement or anything done or maintained by the Company hereunder or intended so to be and the Company shall at all times indemnify and save harmless the Owner from and against all such loss, damage or injury and all actions, suits, proceedings, costs, charges, damages, expenses, claims or demands arising therefrom or connected therewith provided that the Company shall not be liable under the Clause to the extent to which such loss, damage or injury is caused or contributed to by the gross negligence or wilful misconduct of the Owner.

The Company and the Owner agree to perform the covenants on its part herein contained.

Dated this ____ day of _____ 20__.

[Insert name of individual or corporation]

Signature (Owner)

Print Name(s) (and position held if applicable)
Choose an item

Address (Owner)

Signature (Owner)

Print Name(s) (and position held if applicable)
Choose an item.

Address (Owner)

ENBRIDGE GAS INC.

Signature (Company)
, Choose an item.

Name & Title (Enbridge Gas Inc.)

I have authority to bind the Corporation.

519-436-4673

Telephone Number (Enbridge Gas Inc.)

Additional Information: (if applicable):

Property Address:

HST Registration Number:]

TRANSFER OF EASEMENT
(Blanket or Specified Lands)

Definitions

For the purposes of this easement the following capitalized words shall have the following meanings:

“**Company**” or “**Transferee**” means Enbridge Gas Inc.

“**Dominant Tenement**” means the lands described in Schedule 1 attached hereto.

“**Easement Lands**” or “**Servient Tenement**” means the lands described in the Properties heading of the document to which this schedule is attached.

“**Equipment**” means, collectively, the all pipelines, piping, meters, attachments, appurtenances, apparatus, appliances, markers, fixtures, works and other equipment constructed or to be constructed by Company in, on and/or under the Servient Tenement.

“**Owner**” or “**Transferor**” means the owner of the Property.

IN CONSIDERATION OF THE COVENANTS HEREIN, the parties hereto agree as follows:

- (1) Owner hereby transfers, sells, grants and conveys in perpetuity to Company, its successors and assigns, a free and unencumbered easement in, over, upon, under and/or through the Easement Lands, to survey, lay, construct, install, operate, use, inspect, remove, renew, replace, alter, enlarge, reconstruct, repair, expand and maintain the Equipment which Company may deem necessary or convenient thereto. This transfer of easement shall include the right of Company, its successors, assigns, servants and agents to use the surface of the Easement Lands for ingress and egress on foot and/or with vehicles, supplies, machinery and equipment at any time and from time to time.
- (2) Company shall have the right at any time and from time to time to remove any boulder or rock and to sever, fell, remove or control the growth of any roots, trees, stumps, brush or other vegetation on or under the Easement Lands.
- (3) The rights of Company herein shall be of the same force and effect as a covenant running with the Easement Lands and shall be appurtenant to the lands and premises described in this Schedule as Company's Lands.
- (4) Company shall have the right to assign or transfer its rights hereunder in whole or in part.
- (5) This Transfer shall extend to, be binding upon and enure to the benefit of the estate trustees, successors and assigns of the parties hereto. If Owner is not the sole owner of the said lands, this Transfer shall bind Owner to the full extent of its interest therein and shall also extend to any after-acquired interest but all monies payable or paid to Owner hereunder shall be paid to Owner only in the proportion that its interest in the said lands bears to the entire interest therein. Owner hereby agree that all provisions herein are reasonable and valid and if any provision herein is determined to be

unenforceable, in whole or in part, it shall be severable from all other provisions and shall not affect or impair the validity of all other provisions.

- (6) Owner shall have the right to use and enjoy the surface of the Easement Lands except that such use and enjoyment shall not interfere with the rights of Company hereunder. Without limiting the generality of the foregoing, Owner shall not, without the prior written consent of Company, place or erect on the Easement Lands any building, structure or fence and shall not excavate, alter the grading, drill, install thereon any pit, well, foundation and/or pavement which will obstruct or prevent the exercise and enjoyment by Company of its rights hereunder.
- (7) Notwithstanding any rule of law or equity, any Works constructed by Company shall be deemed to be the property of Company even though the same may have become annexed or affixed to the Easement Lands.
- (8) Company shall at its own expense as soon as reasonably possible after the construction of any Works or other exercise of its rights hereunder, remove all surplus sub-soil and debris from the Easement Lands and restore them to their former state so far as is reasonably practicable.
- (9) Owner covenants that:
 - a. they have the right to convey the rights hereby transferred to Company;
 - b. Company shall have quiet enjoyment of the rights hereby transferred;
 - c. Owner or its successors and assigns will execute such further assurances and do such other acts (at Company's expense) as may be reasonably required to vest in Company the rights hereby transferred; and
 - d. Owner has not done, omitted or permitted anything whereby the Easement Lands is or may be encumbered (except as the records of the Land Registry Office disclose).
- (10) Owner represents and warrants that the Easement Lands have not been used for the storage of and do not contain any toxic, hazardous, dangerous, noxious or waste substances or contaminants (collectively the "**Hazardous Substances**"). If Company encounters any Hazardous Substances in undertaking any work on the Easement Lands, it shall give notice to Owner. At the expense of Owner, Company (or, at Company's option, Owner) shall effect the removal of such Hazardous Substances in accordance with the laws, rules and regulations of all applicable public authorities. In acquiring its interests in the Easement Lands pursuant to this Easement, Company shall be deemed not to acquire the care or control of the Easement Lands or any component thereof.
- (11) Company covenants and agrees that it shall comply with applicable federal and provincial environmental legislation in connection with the use of this Easement Lands and the rights granted herein.
- (12) Whenever the singular or neuter is used it shall, where necessary, be construed as if the plural or feminine or masculine has been used and vice versa, as the case may be.

- (13) Company hereby declares that this easement is being acquired by Company for the purpose of a hydrocarbon line within the meaning of Part VI of the *Ontario Energy Board Act, 1998* and/or a utility line within the meaning of the *Ontario Energy Board Act, 1998*.

SCHEDULE 1

DOMINANT TENEMENTS - TRANSFEREE'S LANDS

PIN 64057-0029 (LT)
PT TWP LT 92, THLD, AS IN AA 90798 S/T & T/W AA90798; WELLAND

PIN 04161-0019 (LT)
PT LT 6 CON 6RF GLOUCESTER PART 1, 4R-10265 & PART 2, 5R-5963; GLOUCESTER

PIN 03187-0004 (LT)
PT W1/2 LT 30 CON 2 MARKHAM AS IN MA49406; RICHMOND HILL

PROJECT COSTS AND ECONOMICS

Project Costs

1. The total estimated cost of the Project is \$164.1 million as shown at Exhibit F, Tab 2, Schedule 1, Line 7. This cost includes: (i) materials; (ii) construction and labour; (iii) environmental protection measures; (iv) land acquisitions; (v) abandonment of existing assets; (vi) contingencies; (vii) interest during construction; and (viii) indirect overheads. Excluding indirect overheads, the total estimated incremental cost of the Project is \$133.9 million.
2. The proposed Leave to Construct (“LTC”) seeks approval for the mainline costs of \$95.2 million as shown at Exhibit F, Tab 2, Schedule 1, Line 5. Enbridge Gas is not seeking approval for the ancillary facilities’ costs (i.e. stations, services, abandonment) in this application. These costs have been included in the total Project cost for completeness.

Project Economics

3. A Discounted Cash Flow report has not been completed as the Project is underpinned by integrity requirements. The Project has been designed to match the same capacity (current and growth) that the existing pipelines provide and will not create a significant change in capacity available on the London Line.
4. Enbridge Gas expects the Project will meet the criteria for rate recovery during the deferred rebasing period using the Board’s Incremental Capital Module (“ICM”) mechanism. The ICM request for the Project will form part of Phase 2 of Enbridge Gas’s 2021 Rates application.

London Line Replacement Project
Total Estimated Project Capital Costs

Line No.	Particulars (\$000's)	Mainline	Stations	Services	Abandonment (1)	Total
1	Materials	5,616	1,823	125	-	7,564
2	Construction and Labour	77,321	8,221	4,005	19,776	109,323
3	Contingencies	11,402	1,310	619	2,633	15,964
4	Interest During Construction	867	142	49	-	1,058
5	Estimated Incremental Project Capital Costs	95,206	11,496	4,798	22,409	133,909
6	Indirect Overhead	21,881	2,640	991	4,677	30,189
7	Total Estimated Project Capital Costs	117,087	14,136	5,789	27,086	164,098

Notes:

(1) Abandonment costs will not be included in Enbridge Gas's ICM request for rate recovery.

INDIGENOUS¹ CONSULTATION REPORT

1. Enbridge Gas Inc. (“Enbridge Gas”) is committed to creating processes that support meaningful engagement with potentially affected Indigenous groups (First Nations and Métis). Enbridge Gas works to build an understanding of project related interests, ensure regulatory requirements are met, mitigate or avoid project-related impacts on Aboriginal interests including rights, and provide mutually beneficial opportunities where possible.
2. Pursuant to the Ontario Energy Board’s (the “Board”) *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 7th Edition, 2016* (the “Guidelines”), Enbridge Gas provided the Ontario Ministry of Energy Northern Development and Mines (the “MENDM”) with a project description for the London Lines Reinforcement Project (the “Project”) on December 9, 2019. This Project description is set out at Attachment 1 to this Exhibit.
3. Subsequently, on February 26, 2020, Enbridge Gas received a letter (“Delegation Letter”) from the MENDM indicating that the MENDM had delegated the procedural aspects of consultation to Enbridge Gas for the Project. The Delegation Letter identified six Indigenous communities with whom Enbridge Gas was to consult. A copy of the Delegation Letter is provided at Attachment 2 to this Exhibit.
4. Enbridge Gas provided this Indigenous Consultation Report, including Indigenous Consultation Report: Summary (Exhibit G, Tab 2, Schedule 1) and

¹ Enbridge Gas has used the terms “Aboriginal” and “Indigenous” interchangeably in its application.

“Indigenous” has the meaning assigned by the definition “aboriginal peoples of Canada” in subsection 35(2) of the *Constitution Act, 1982*.

ICR: Log and Project Correspondence (Exhibit G, Tab 2, Schedule 2), which form part of the report, to the MENDM on September 02, 2020 and requested that the MENDM determine if the procedural aspects of the Duty to Consult for the Project have been met. Enbridge Gas will update this Indigenous Consultation Report (specifically Attachment 3) when a sufficiency letter is received from the MENDM. Information gathered during the course of Enbridge Gas' engagement with Indigenous groups was incorporated into the Stage 1 Archaeological Assessment and Environmental Report set out in Exhibit C, Tab 2, Schedule 1, and will be incorporated into the Stage 2 Archaeological Assessment when completed. This work was completed under the auspices of the Guidelines which include Duty to Consult requirements for hydrocarbon facility proponents.

Indigenous Engagement Program Objectives

5. The design of the Indigenous engagement program was based on adherence to the Guidelines and *Enbridge's Indigenous Peoples Policy* and principles as follows:
 - Enbridge Inc. has instituted a company-wide *Indigenous Peoples Policy* ("Policy") (set out in Attachment 4 to this Exhibit). The Policy lays out key principles for establishing relationships with Indigenous groups, which includes, among other things, respect for traditional activities and land, heritage sites, the environment and traditional knowledge.
 - Enbridge Gas establishes meaningful relationships, provides timely exchanges of information, understands and addresses Indigenous Project-specific concerns, and ensures ongoing dialogue about its projects, their potential implications and benefits.
 - Enbridge Gas aligns its interests with those of Indigenous communities through meaningful, direct Indigenous economic activity in projects corresponding to community capacity and project needs, where possible.
 - The Indigenous engagement program for the Project recognizes the rights of

Indigenous groups and assists Enbridge Gas in engaging in meaningful dialogue with potentially affected Indigenous groups about the Project. It also assists Enbridge Gas in meeting the procedural aspects of consultation that may be required by the Crown and the Guidelines.

Overview of Indigenous Engagement Program Activities

6. Enbridge Gas conducts its Indigenous consultation generally through phone calls, in-person meetings, Project mail-outs, open houses and email communications. During these engagement activities, Enbridge Gas representatives will provide an overview of the Project, respond to questions and concerns, and address any interests or concerns expressed by Indigenous communities to appropriately mitigate any Project-related impacts. In order to accurately document Indigenous engagement activities and ensure follow-up, applicable supporting documents are tracked using a database.
7. Due to the restrictions from the COVID-19 pandemic in many cases in person meetings were not possible; however, Enbridge Gas offered to meet with Indigenous group representatives virtually and held a virtual open house. Despite the circumstances, Enbridge Gas and Indigenous groups were able to work collaboratively to find alternative ways to meet and discuss the Project.

Ongoing Indigenous Engagement Activities

8. Enbridge Gas will continue to actively engage all identified Indigenous groups in meaningful ongoing dialogue concerning the Project and endeavor to meet with each Indigenous group, provided they are willing, for the purpose of exchanging information regarding the Project and to respond to inquiries in a timely manner. Enbridge Gas will listen to concerns and work with Indigenous groups to address those concerns and seek information on the exercise of, and potential impacts to,

Aboriginal and Treaty rights, traditional use in the Project area and how any potential Project-related impacts can be mitigated.

9. Exhibit G, Tab 2, Schedule 1 contains a summary of Enbridge Gas' Indigenous consultation and engagement activities for the Project. Exhibit G, Tab 2, Schedule 2 contains the Indigenous consultation and engagement log and correspondence for the Project.
10. The information presented in the aforementioned Exhibits reflects Enbridge Gas' Indigenous engagement activities for the Project up to and including August 26, 2020; however, Enbridge Gas will continue to engage during the regulatory process and throughout the life of the Project.

From: Asha Patel
Sent: Monday, December 9, 2019 10:26 AM
To: dan.delaquis@ontario.ca
Cc: Ken McCorkle <KMcCorkle@uniongas.com>
Subject: Duty to Consult - London Lines Project

Good Morning Dan,

Enbridge Gas Inc. will be filing a Leave to Construct application with the Ontario Energy Board for the London Lines Project, and is therefore contacting you to determine if the Project triggers the Duty to Consult. Attached please find a description of the London Lines Project for your review.

If you have any questions please do not hesitate to contact me.

Regards,

Asha Patel CPA, CA

December 9, 2019

VIA EMAIL – dan.delaquis@ontario.ca

Ministry of Energy, Northern Development and Mines
Dan Delaquis
Manager (Acting), Indigenous Energy Policy
Unit 77 Grenville St.
6th Floor
Toronto, ON
M7A 1B3

Dear Mr. Delaquis:

Re: London Lines Replacement Project

The *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 7th Edition 2016* (the “Guidelines”) issued by the Ontario Energy Board (the “Board”) indicate that a project applicant shall provide the Ministry of Energy, Northern Development and Mines (the “Ministry”) with a description of a project while in the planning process such that the Ministry can determine if there are any Duty to Consult requirements for the project.

The purpose of this letter is to inform the Ministry that Enbridge Gas Inc. (“Enbridge Gas”) has identified the need to replace an existing set of pipelines which run from Enbridge Gas’ Dawn Hub facility in the Township of Dawn-Euphemia, to Komoka in the Municipality of Middlesex Centre. Additionally, a new pipeline will be installed connecting the replacement pipeline to Strathroy in the Municipality of Strathroy-Caradoc. The Project will require Enbridge Gas to file a Leave to Construct application with the Board. Enbridge Gas is therefore contacting the Ministry to determine whether the Project triggers the Duty to Consult.

Attachment 1 contains a description of the Project’s characteristics and its location for the Ministry’s review, and to assist it with its determination as to whether it will delegate the procedural aspects of the Duty to Consult to Enbridge. While work on the Project is still in its early stages, Enbridge Gas would be pleased to discuss the Project with you should you have any questions.

Regards,

Asha Patel
Technical Manager, Regulatory Applications
Enbridge Gas Inc.
416-495-5642

Attachment 1: Project Description

1.0 Project Summary

Enbridge Gas Inc. (“Enbridge Gas”) has identified the need to replace approximately 75 km of Nominal Pipe Size (“NPS”) 8 and 10 inch steel natural gas main with NPS 8 steel natural gas main, and the need to reinforce the delivery to Strathroy in the Municipality of Strathroy-Caradoc with approximately 12 km of NPS 8 steel natural gas main (the “Project”). The majority of the replacement pipeline route will follow the existing pipeline route to maintain gas connections with existing communities and customers. The project also involves upgrades to services and stations along the route of the proposed pipeline. The existing NPS 8 and 10 pipelines along this route will be abandoned.

The Project will require the construction of an NPS 8 steel natural gas main and the abandonment of both existing NPS 8 and NPS 10 steel natural gas mains. The Project will tie into a steel natural gas main at the Enbridge Dawn Hub on Bentpath Line, east of Dawn Valley Road on the west end of the Project (Township of Dawn-Euphemia). On the east end, the Project will tie into a regulating station located south of the intersection of Glendon Road and Komoka Road in Komoka (Municipality of Middlesex Centre), located on the periphery of Komoka Provincial Park.

Figure 1 below shows the existing pipeline with potential alternative routes being considered.

The proposed pipeline route starts in the Township of Dawn-Euphemia on Bentpath Line, just east of Dawn Valley Road at Enbridge Gas’ Dawn Hub facility. The pipeline then travels along Bethpath Line to just east of Oakdale Road.

The pipeline then travels through an easement to the intersection of Mcauslan Road and Mosside Line, where it continues east along Mosside Line to the intersection of Mosside Line and Watterworth Road. The pipe then enters the Municipality of Southwest Middlesex and continues through another easement to Big Bend Road and Knapdale Drive. From there, it travels along Knapdale Drive to Old Airport Road. At Knapdale Drive and Old Airport Road, the pipe continues along Old Airport Road to CPR Drive. The pipe follows CPR Drive to Dundonald Road. From there, the pipe runs along Dundonald Road to Falconbridge Drive. The pipe follows Falconbridge Drive, entering the Municipality of Strathroy-Caradoc, to Rougham Road.

The pipeline then travels through an easement to the intersection of Amiens Rd and Glendon Drive. The pipe runs along Glendon Drive, entering the Municipality of Middlesex Centre, then through another easement to the existing Enbridge Komoka regulating station.

At the intersection of Falconbridge Road and Adelaide Road in the Municipality of Strathroy-Caradoc, the NPS 8 pipeline will tie into the new pipeline replacement and be installed along Adelaide Road to Walkers Drive. The pipe then travels along Walkers Drive to Sunderland Road. From there, the pipe runs along Sunderland Road until Calvert Drive. It then travels along Calvert Drive to the existing Enbridge Strathroy regulating station.

The existing pipeline is located in both existing road allowances as well as within easements. The replacement pipeline will be located in the same road allowances where possible to ensure existing customers are still able to have natural gas delivered. Where possible, pipeline that is currently in an easement will be moved to existing road allowances. The proposed alternative routes primarily comprise the options to relocate from the easement to the road allowance.

Temporary working space and laydown areas may also be required adjacent to these areas to facilitate the movement and storage of equipment necessary for construction. Enbridge Gas will work with regulators and landowners to identify and secure appropriate working space as required.

Preparation of an Environmental Report (“ER”) for the Project has been initiated. The ER will examine the alternative routes and determine, from an environmental and socio-economic perspective, the preferred route for the Project. Engineering design is expected to be finalized during the permitting stage of the Project.

2.0 Authorizations and Recommendations Required

An ER for the Project will be prepared in accordance with the Ontario Energy Board’s (the “Board”) *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines in Ontario, 7th Edition* 2016. The ER will identify the potential authorizations required. Enbridge Gas’ preliminary work on the Project has identified the following potential authorizations:

Federal approvals:

- Department of Fisheries and Oceans

Provincial approvals:

- Ontario Energy Board
- Lower Thames Valley Conservation Authority
- Upper Thames River Conservation Authority
- St. Clair Region Conservation Authority
- Ministry of Transportation
- Ministry of Heritage, Sport, Tourism and Culture Industries
- Ministry of Environment, Conservation and Parks
- Ministry of Indigenous Affairs

Municipal approvals:

- Township of Dawn-Euphemia
- Municipality of Southwest Middlesex
- Municipality of Strathroy-Caradoc
- Municipality of Middlesex Centre
- County of Lambton
- Middlesex County

Additionally, approval from other utilities in the area may be required. Other authorizations, notifications, permits and/or approvals may be required in addition to those identified above.

3.0 Project Activities

Planning activities for the Project commenced in 2019 and will continue until the commencement of construction in Q2 of 2021. Pursuant to the Guidelines an ER will be prepared and geotechnical and archaeological studies will be completed. The design process involves the selection of a specific running line location, appropriate materials, the selection of valves/fittings and location(s) for trenchless drilling activities. Information obtained from the geotechnical analysis, subsurface utility engineering and soil sampling is typically used to inform pipeline design.

Engineered drawings will be produced with the final design and issued to local municipalities and other regulators for approval. Once all approvals are obtained, final engineered drawings will be prepared for construction.

The pipelines and associated facilities may be installed via open-trench and/or trenchless technologies. Normal depth of ground cover over the pipeline will be 1.2 m; however, it may be installed deeper to provide additional protection in areas where it crosses underneath existing infrastructure and other sensitive environmental and/or socio-economic features.

4.0 Potential Environmental Effects and Mitigation Measures

The area in which the Project is to be constructed is within multiple municipalities. It is expected that the majority of adverse environmental and/or socio-economic effects will be construction related. These effects are expected to be temporary and transitory. The Project will also be underground once construction is complete, further limiting the potential for any long-term effects.

Mitigation measures recommended in the ER will be followed in conjunction with Enbridge Gas' Construction and Maintenance Manual. In addition, Enbridge Gas will use professional judgement, past experience, industry best practices and any additional feedback received through the consultation process when constructing the Project.

5.0 Project Benefits

The Project will allow Enbridge Gas to continue to provide natural gas to customers in the surrounding area in a safe and reliable manner by replacing an existing pair of pipelines with known integrity issues. The Project will also provide additional capacity in the area to deliver natural gas to new customers.

6.0 Contact Information

Regulatory Applications:

Asha Patel

Asha.Patel@enbridge.com

416-495-5642

Indigenous Affairs:

Ken McCorkle

KMcCorkle@uniongas.com

519-436-4600 x5002243

Figure 1: Preliminary and potential alternative routes being considered.



From: Brandon Ott

Sent: Wednesday, February 19, 2020 9:53 AM

To: Delaquis, Dan (ENDM) <Dan.Delaquis@ontario.ca>

Cc: Asha Patel <Asha.Patel@enbridge.com>; Ken McCorkle <Ken.McCorkle@enbridge.com>; Lauren Whitwham <Lauren.Whitwham@enbridge.com>

Subject: RE: Duty to Consult - London Lines Project

Good morning Dan,

I am one of Enbridge Gas's Regulatory Application Managers, primarily managing cases before the OEB including Leave to Construct applications. I was hoping to follow up on behalf of Asha Patel regarding the London Lines Project description she provided back in December. Can we expect word back on whether the Project triggers a Duty to Consult in the near future?

Please feel free to contact me should you have any questions.

Thanks,

Brandon Ott, MA

Technical Manager Regulatory Applications

From: Brandon Ott <Brandon.Ott@enbridge.com>
Sent: February 26, 2020 10:26 AM
To: Delaquis, Dan (ENDM) <Dan.Delaquis@ontario.ca>
Cc: Asha Patel <Asha.Patel@enbridge.com>; Ken McCorkle <Ken.McCorkle@enbridge.com>; Lauren Whitwham <Lauren.Whitwham@enbridge.com>
Subject: RE: Duty to Consult - London Lines Project

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Good morning Dan,

Any word when we should expect a response with regards to our Duty to Consult inquiry from December 9th, 2019?

Just to provide context, our construction start in spring of 2021 will be contingent on timely OEB approval of the project, which will be contingent on timely submission of an application this summer, which is contingent on our stakeholder engagement beginning as soon as possible. As you know that engagement will be shaped by what we hear back regarding Duty to Consult. Given the size of the project, our project team is getting nervous about our ability to get started as soon as possible in the 2021 construction season to ensure completion before any winter weather begins in the fall.

All of the above in mind we would very much appreciate any update you can provide at your earliest convenience.

Thanks,

From: Delaquis, Dan (ENDM)
To: [Brandon Ott](#)
Cc: [Asha Patel](#); [Ken McCorkle](#); [Lauren Whitwham](#); [Bromfield, Kristen \(ENDM\)](#)
Date: Wednesday, February 26, 2020 2:19:53 PM
Attachments: [London Lines Replacement Project Delegation Letter.pdf](#)

EXTERNAL: PLEASE PROCEED WITH CAUTION.

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Hi Brandon,

Apologies for the time it took for us to assess the request for delegation. Please find attached ENDM's delegation letter for the London Lines project. If you or your team have any questions, feel free to reach out to Kristen or myself.

Thanks,
Dan

Dan Delaquis | A/Manager, Indigenous Energy Policy
Ministry of Energy, Northern Development and Mines

**Ministry of Energy,
Northern
Development and
Mines** **Ministère de
l'Énergie, du
Développement du
Nord et des Mines**



77 Grenville Street 77, rue Grenville
6th Floor 6^e étage
Toronto ON M7A 2C1 Toronto ON M7A 2C1

VIA EMAIL

February 25, 2020

Asha Patel
Technical Manager, Regulatory Applications
Enbridge Gas Distribution Inc
500 Consumers Road, North York

Re: London Lines Replacement Project

Dear Asha Patel:

Thank you for your email dated December 9, 2019 notifying the Ministry of Energy, Northern Development and Mines (ENDM) of Enbridge Gas Distribution Inc's intention to apply to the Ontario Energy Board (OEB) for Leave to Construct for the London Lines Replacement Project (the Project).

I understand that Enbridge Gas Distribution Inc has identified the need to replace approximately 75 km of Nominal Pipe Size ("NPS") 8 and 10 inch steel natural gas main with NPS 8 steel natural gas main, and the need to reinforce the delivery to Strathroy in the Municipality of Strathroy-Caradoc with approximately 12 km of NPS 8 steel natural gas main (the "Project"). The majority of the replacement pipeline route will follow the existing pipeline route to maintain gas connections with existing communities and customers. The project also involves upgrades to services and stations along the route of the proposed pipeline. The existing NPS 8 and 10 pipelines along this route will be abandoned.

The Project will require the construction of an NPS 8 steel natural gas main and the abandonment of both existing NPS 8 and NPS 10 steel natural gas mains. The Project will tie into a steel natural gas main at the Enbridge Dawn Hub on Bentpath Line, east of Dawn Valley Road on the west end of the Project (Township of Dawn-Euphemia). On the east end, the Project will tie into a regulating station located south of the intersection of Glendon Road and Komoka Road in Komoka (Municipality of Middlesex Centre), located on the periphery of Komoka Provincial Park.

On behalf of the Government of Ontario (the Crown), ENDM has reviewed the information provided by Enbridge Gas Distribution Inc with respect to the Project and assessed it against the Crown's current understanding of the interests and rights of Aboriginal communities who hold or claim Aboriginal or treaty rights protected under Section 35 of Canada's Constitution Act 1982 (Indigenous Communities) in the area. In doing so, ENDM has determined that the Project may have the potential to affect such Indigenous communities.

The Crown has a constitutional duty to consult and, where appropriate, accommodate Indigenous communities when the Crown contemplates conduct that might adversely impact established or asserted Aboriginal or Treaty rights. These consultations are in addition to consultation imposed by statute.

While the legal responsibility to meet the duty to consult lies with the Crown, the Crown may delegate the day-to-day, procedural aspects of consultation to project Proponents. Such a delegation by the Crown to Proponents is routine practice for ENDM.

I am writing to advise you that on behalf of the Crown, ENDM is delegating the procedural aspects of consultation in respect of the Project to Enbridge Gas Distribution Inc (Proponent) through this letter. ENDM expects that the Proponent will undertake the procedural aspects of consultation with respect to any regulated requirements for the proposed Project. The Crown will fulfill the substantive aspects of consultation and retain oversight over all aspects of the process for fulfilling the Crown's duty.

Please see the appendix for information on the roles and responsibilities of both the Crown and the Proponent.

Based on the Crown's assessment of First Nation and Métis community rights and potential project impacts, the following Indigenous communities should be consulted on the basis that they have or may have constitutionally protected Aboriginal or Treaty rights that may be adversely affected by the Project.

Community	Mailing Address
Oneida Nation of the Thames	2212 Elm Avenue Southwold, ON N0L 2G0
Aamjiwnaang,	974 Tashmoo Avenue Sarnia, ON N7T 7H5
Caldwell	14 Orange Street Leamington, ON N8H 1P5
Chippewas of the Thames	320 Chippewa Road

	Muncey, ON N0L 1Y0
Chippewas of Kettle and Stony Point	6247 Indian Lane Lambton Shores, ON N0N 1J2
Bkejwanong (Walpole Island)	117 Tahgahoning Road Walpole Island, ON N8A 4K9

This rights-based consultation list is based on information that is subject to change. Consultation is ongoing throughout the duration of the project, including project development and design, consultation, approvals, construction, operation and decommissioning. First Nation and Métis communities may make new rights assertions at any time, and further project related developments can occur that may require additional First Nation and/or Métis communities to be notified and/or consulted.

If you become aware of potential rights impacts on Indigenous communities that are not listed above at any stage of project, please bring this to the attention of ENDM with any supporting information regarding the claim at your earliest convenience.

ENDM is assuming a coordinating role within government in relation to rights-based Aboriginal consultation on the Project. We recommend contacting the following ministry representatives if you have any questions or concerns relating to a specific ministry's mandate:

Ministry/Contact	Phone/Email
Kristen Bromfield – Policy Advisor, Indigenous Energy Unit Ministry of Energy, Northern Development and Mines	Kristen.Bromfield@ontario.ca 416- 735-3297
Peter Brown – Consultation Advisor, Environmental Assessment and Permissions Division Ministry of the Environment, Conservation and Parks	peter.brown@ontario.ca 416-314-0149
Joe Vecchiolla – Policy Lead, Realty Policy Branch, Ministry of Government and Consumer Services	Joseph.vecchiolla@ontario.ca 647-267-3247

Acknowledgement

By accepting this letter, the Proponent acknowledges this Crown delegation and the procedural consultation responsibilities enumerated in the appendix. If you have any questions about this request, you may contact Kristen Bromfield (see above).

I trust that this information provides clarity and direction regarding the respective roles of the Crown and Enbridge Gas Distribution Inc. If you have any questions about this letter or require any additional information, please contact me directly.

Sincerely,

A handwritten signature in black ink, consisting of several overlapping loops and a horizontal stroke, enclosed within a hand-drawn oval.

Dan Delaquis
Manager, Indigenous Energy Policy

C: Ontario Pipeline Coordinating Committee (OPCC)

APPENDIX: PROCEDURAL CONSULTATION

Roles and Responsibilities Delegated to the Proponent

On behalf of the Crown, please be advised that your responsibilities as Project Proponent for this Project include:

- providing notice and information about the Project to Indigenous communities, with sufficient detail and at a stage in the process that allows the communities to prepare their views on the Project and, if appropriate, for changes to be made to the Project. This can include:
 - accurate, complete and plain language information including a detailed description of the nature and scope of the Project and translations into Aboriginal languages where appropriate;
 - maps of the Project location and any other affected area(s);
 - information about the potential negative effects of the Project on the environment, including their severity, geographic scope and likely duration. This can include, but is not limited to, effects on ecologically sensitive areas, water bodies, wetlands, forests or the habitat of species at risk and habitat corridors;
 - a description of other provincial or federal approvals that may be required for the Project to proceed;
 - whether the Project is on privately owned or Crown controlled land;
 - any information the Proponent may have on the potential effects of the Project, including particularly any likely adverse impacts on established or asserted Aboriginal or treaty rights;
 - a written request asking the Indigenous community to provide in writing or through a face-to-face meeting:
 - any information available to them that should be considered when preparing the Project documentation;
 - any information the community may have about any potential adverse impacts on their Aboriginal or treaty rights; and
 - any suggested measures for avoiding, minimizing or mitigating potential adverse impacts;
 - information about how information provided by the Indigenous community as part of the consultation process will be collected, stored, used, and shared for their approval;

- identification of any mechanisms that will be applied to avoid, minimize or mitigate potential adverse impacts;
 - identification of a requested timeline for response from the community and the anticipated timeline for meeting Project milestones following each notification;
 - an indication of the Proponent's availability to discuss the process and provide further information about the Project;
 - the Proponent's contact information; and
 - any additional information that might be helpful to the community;
- following up, as necessary, with Indigenous communities to ensure they received Project notices and information and are aware of the opportunity to comment, raise questions or concerns and identify potential adverse impacts on their established or asserted rights;
 - gathering information about how the Project may adversely affect Aboriginal or treaty rights;
 - bearing the reasonable costs associated with the procedural aspects of consultation (paying for meeting costs, making technical support available, etc.) and considering reasonable requests by communities for capacity funding to assist in participating in the consultation process;
 - considering and responding to comments and concerns raised by Indigenous communities and answering questions about the Project and its potential impacts on Aboriginal or treaty rights;
 - as appropriate, discussing and implementing changes to the Project in response to concerns raised by Indigenous communities. This could include modifying the Project to avoid or minimize an impact on an Aboriginal or treaty right (e.g. altering the season when construction will occur to avoid interference with mating or migratory patterns of wildlife); and
 - informing Indigenous communities about how their concerns were taken into consideration and whether the Project proposal was altered in response. It is considered a best practice to provide the Indigenous community with a copy of the consultation record as part of this step for verification.

If you are unclear about the nature of a concern raised by an Indigenous community, you should seek clarification and further details from the community, provide opportunities to listen to community concerns and discuss options, and clarify any issues that fall outside the scope of the consultation process. These steps should

be taken to ensure that the consultation process is meaningful and that concerns are heard and, where possible, addressed.

You can also seek guidance from the Crown at any time. It is recommended that you contact the Crown if you are unsure about how to deal with a concern raised by an Indigenous community, particularly if the concern relates to a potential adverse impact on established or asserted Aboriginal or treaty rights.

The consultation process must maintain sufficient flexibility to respond to new information, and we request that you make all reasonable efforts to build positive relationships with all Indigenous communities potentially affected by the Project. If a community is unresponsive to efforts to notify and consult, you should nonetheless make attempts to update the community on the progress of the Project, the environmental assessment (if applicable) and other regulatory approvals.

If you reach a business arrangement with an Indigenous community that may affect or relate to the Crown's duty to consult, we ask that that Crown be advised of those aspects of such an arrangement that may relate to or affect the Crown's consultation obligations, and that the community itself be apprised of the Proponent's intent to so-apprise the Crown. Whether or not any such business arrangements may be reached with any community, the Crown expects the Proponent to fulfill all of its delegated procedural consultation responsibilities to the satisfaction of the Crown.

If the Crown considers that there are outstanding issues related to consultation, the Crown may directly undertake additional consultation with Indigenous communities, which could result in delays to the Project. The Crown reserves the right to provide further instructions or add communities throughout the consultation process.

Roles and responsibilities assumed directly by the Crown

The role of the Crown in fulfilling any duty to consult and accommodate in relation to this Project includes:

- identifying for the Proponent, and updating as appropriate, the Indigenous communities to consult for the purposes of fulfillment of the Crown duty;
- carrying out, from time to time, any necessary assessment of the extent of consultation or, where appropriate, accommodation, required for the project to proceed;
- supervising the aspects of the consultation process delegated to the Proponent;
- determining in the course of Project approvals whether the consultation of Indigenous communities was sufficient;

- determining in the course of Project approvals whether accommodation of Indigenous communities, if required, is appropriate and sufficient.

Consultation Record

It is important to ensure that all consultation activities undertaken with Indigenous communities are fully documented. This includes all attempts to notify or consult the community, all interactions with and feedback from the community, and all efforts to respond to community concerns. Crown regulators require a complete consultation record in order to assess whether Aboriginal consultation and any necessary accommodation is sufficient for the Project to receive Ontario government approvals. The consultation record should include, but not be limited to, the following:

- a list of the identified Indigenous communities that were contacted;
- evidence that notices and Project information were distributed to, and received by, the Indigenous communities (via courier slips, follow up phone calls, etc.). Where a community has been non-responsive to multiple efforts to contact the community, a record of such multiple attempts and the responses or lack thereof.
- a written summary of consultations with Indigenous communities and appended documentation such as copies of notices, any meeting summaries or notes including where the meeting took place and who attended, and any other correspondence (e.g., letters and electronic communications sent and received, dates and records of all phone calls);
- responses and information provided by Indigenous communities during the consultation process. This includes information on Aboriginal or treaty rights, traditional lands, claims, or cultural heritage features and information on potential adverse impacts on such Aboriginal or treaty rights and measures for avoiding, minimizing or mitigating potential adverse impacts to those rights; and
- a summary of the rights/concerns, and potential adverse impacts on Aboriginal or treaty rights or on sites of cultural significance (e.g. burial grounds, archaeological sites), identified by Indigenous communities; how comments or concerns were considered or addressed; and any changes to the Project as a result of consultation, such as:
 - changing the Project scope or design;
 - changing the timing of proposed activities;
 - minimizing or altering the site footprint or location of the proposed activity;
 - avoiding impacts to the Aboriginal interest;

- o environmental monitoring; and
- o other mitigation strategies.

As part of its oversight role, the Crown may, at any time during the consultation and approvals stage of the Project, request records from the Proponent relating to consultations with Indigenous communities. Any records provided to the Crown will be subject to the *Freedom of Information and Protection of Privacy Act*, however may be exempted from disclosure under section 15.1 (Relations with Aboriginal communities) of the Act. Additionally, please note that the information provided to the Crown may also be subject to disclosure where required under any other applicable laws.

The contents of what will make up the consultation record should be shared at the onset with the Indigenous communities consulted with and their permission should be obtained. It is considered a best practice to share the record with the Indigenous community prior to finalizing it to ensure it is a robust and accurate record of the consultation process.

Filed: 2020-09-02
EB-2019-0192
Exhibit G
Tab 1
Schedule 1
Attachment 3

SUFFICIENCY LETTER FROM THE MENDM

TO BE FILED WHEN RECEIVED

Enbridge Inc. Indigenous Peoples Policy

Enbridge Indigenous Peoples Policy

Enbridge recognizes the diversity of Indigenous Peoples who live where we work and operate. We understand that the history of Indigenous Peoples in both Canada and the United States has had destructive impacts on the social and economic wellbeing of Indigenous Peoples. Enbridge recognizes the importance of reconciliation between Indigenous communities and broader society. Positive relationships with Indigenous Peoples, based on mutual respect and focused on achieving common goals, will create constructive outcomes for Indigenous communities and for Enbridge.

Enbridge commits to pursuing sustainable relationships with Indigenous Nations and groups in proximity to where Enbridge conducts business. To achieve this, Enbridge will govern itself by the following principles:

- We recognize the legal and constitutional rights possessed by Indigenous Peoples in Canada and in the U.S., and the importance of the relationship between Indigenous Peoples and their traditional lands and resources. We commit to working with Indigenous communities in a manner that recognizes and respects those legal and constitutional rights and the traditional lands and resources to which they apply, and we commit to ensuring that our projects and operations are carried out in an environmentally responsible manner.
- We recognize the importance of the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP) within the context of existing Canadian and U.S. law and the commitments that governments in both countries have made to protecting the rights of Indigenous Peoples.

- We engage in forthright and sincere consultation with Indigenous Peoples about Enbridge's projects and operations through processes that seek to achieve early and meaningful engagement so their input can help define our projects that may occur on lands traditionally used by Indigenous Peoples.
- We commit to working with Indigenous Peoples to achieve benefits for them resulting from Enbridge's projects and operations, including opportunities in training and education, employment, procurement, business development, and community development.
- We foster understanding of the history and culture of Indigenous Peoples among Enbridge's employees and contractors, in order to create better relationships between Enbridge and Indigenous communities.

This commitment is a shared responsibility involving Enbridge and its affiliates, employees and contractors, and we will conduct business in a manner that reflects the above principles. Enbridge will provide ongoing leadership and resources to ensure the effective implementation of the above principles, including the development of implementation strategies and specific action plans.

Enbridge commits to periodically reviewing this policy to ensure it remains relevant and meets changing expectations.

INDIGENOUS CONSULTATION REPORT: SUMMARY TABLES

Aamjiwnaang First Nation (“AFN”) Environment Coordinator 519-336-8410		
Was project information provided to the community?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>On February 26, 2020, an Enbridge representative notified Chief Plain and the Environment Coordinator for AFN of the Project. The Project notification letter included a map and description of the Project. No response was received.</p> <p>On March 9, 2020, An Enbridge representative sent an email to Chief Plain and the Environment Coordinator for AFN providing an updated map of the route for the Project. On this date, the AFN representative emailed the Enbridge representatives with some dates to set up a meeting to discuss the Project.</p> <p>On April 8, 2020, a Stantec representative, working on behalf of Enbridge, sent the Notice of Commencement and Virtual Open House to Chief Plain. On April 29, 2020, the Stantec representative emailed the Virtual Open House presentation slides to the AFN representative.</p> <p>On May 15, 2020, an Enbridge representative emailed AFN’s Environment Coordinator to confirm that the AFN Environment Coordinator was able to access the Virtual Open House and also provide a Notice of Project change that involved the additional of two additional alternative routes.</p> <p>On July 20, 2020, An Enbridge representative emailed the AFN representative to request a virtual meeting on the Project.</p> <p>On July 23, 2020, an Enbridge representative emailed AFN’s Environment Coordinator to advise that the Environmental Report was available and provided the internet link for the report.</p> <p>On August 11, 2020, an Enbridge representative emailed AFN’s Environment Coordinator to see if a virtual consultation meeting could be set up to discuss the</p>

		<p>Project. On the same day, the AFN Environment Coordinator responded advising that a AFN member would be in touch to set up a meeting.</p> <p>On August 18, 2020, an AFN representative sent an email providing a date to meet to discuss on the Project. The Enbridge representative confirmed the date for a meeting to discuss the Project.</p> <p>On August 24, the Enbridge representative provided the AFN representative with a copy of the presentation and the names of those who would be attending the meeting.</p> <p>On August 25, 2020, a meeting was held between Enbridge and AFN's Environment Committee. The Enbridge representatives reviewed the presentation and Project map with AFN's Environment Committee.</p> <p>The Enbridge representatives explained the purpose of the Project:</p> <ul style="list-style-type: none">• Replacement Project to improve the integrity of the pipeline network and increase system flexibility• Construction of approx. 83 km of high pressure steel natural gas pipeline• Replaces two current pipelines• Includes construction of a new secondary pipeline into the Municipality of Strathroy-Caradoc• Proposing to install pipeline within road allowance as much as possible. <p>The Enbridge representative went over the environmental aspects of the project including water crossings and Species at Risk. They provided the timelines for the Project and how the OEB process works. The Enbridge representative answered AFN's questions and invited AFN to reach out if there were any other questions.</p>
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<p>Was the community responsive/did you have direct contact with the community?</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>AFN and Enbridge representatives had been in contact through email. A meeting was held on August 25, 2020 to discuss the Project.</p>								
<p>Did the community members or representatives have any questions or concerns?</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>On August 25, 2020, during a virtual meeting, AFN posed a number of questions which were answered by the Enbridge representatives at the meeting.</p> <table border="1" data-bbox="591 789 1414 1866"> <thead> <tr> <th data-bbox="591 789 1003 848">AFN Question</th> <th data-bbox="1003 789 1414 848">Enbridge Response</th> </tr> </thead> <tbody> <tr> <td data-bbox="591 848 1003 1230"> <p>The AFN Committee asked about what Enbridge does with the abandoned pipe.</p> </td> <td data-bbox="1003 848 1414 1230"> <p>The Enbridge representative explained that some parts of the old pipe will be abandoned in place in accordance with the proper procedure, and some parts will be removed depending on where the old pipe lies.</p> </td> </tr> <tr> <td data-bbox="591 1230 1003 1633"> <p>The AFN Committee representative asked about the depth of the old and new pipe.</p> </td> <td data-bbox="1003 1230 1414 1633"> <p>The Enbridge representative advised that it is usually buried with 0.75 - 1 m cover. With the old pipe, due to land degradation, there are currently parts that are above ground or too close to the surface. This is one of the reasons the pipe needs replacement.</p> </td> </tr> <tr> <td data-bbox="591 1633 1003 1866"> <p>The AFN Committee member asked if landowners can use the land that has the pipe below it.</p> </td> <td data-bbox="1003 1633 1414 1866"> <p>The Enbridge representative advised that the Lands Agent works with landowners when maintenance is needed and to understand the</p> </td> </tr> </tbody> </table>	AFN Question	Enbridge Response	<p>The AFN Committee asked about what Enbridge does with the abandoned pipe.</p>	<p>The Enbridge representative explained that some parts of the old pipe will be abandoned in place in accordance with the proper procedure, and some parts will be removed depending on where the old pipe lies.</p>	<p>The AFN Committee representative asked about the depth of the old and new pipe.</p>	<p>The Enbridge representative advised that it is usually buried with 0.75 - 1 m cover. With the old pipe, due to land degradation, there are currently parts that are above ground or too close to the surface. This is one of the reasons the pipe needs replacement.</p>	<p>The AFN Committee member asked if landowners can use the land that has the pipe below it.</p>	<p>The Enbridge representative advised that the Lands Agent works with landowners when maintenance is needed and to understand the</p>
AFN Question	Enbridge Response									
<p>The AFN Committee asked about what Enbridge does with the abandoned pipe.</p>	<p>The Enbridge representative explained that some parts of the old pipe will be abandoned in place in accordance with the proper procedure, and some parts will be removed depending on where the old pipe lies.</p>									
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<p>The AFN Committee member asked if landowners can use the land that has the pipe below it.</p>	<p>The Enbridge representative advised that the Lands Agent works with landowners when maintenance is needed and to understand the</p>									

			landowner's use of the land to determine whether to proceed with abandonment or removal.
		The AFN Committee asked about the watercourses and if they were taken into consideration when planning the route of the pipeline.	The Enbridge representatives advised that they examined all opportunities to avoid water crossing however, because this is a distribution pipeline feeding communities, they were not able to deviate from the current path.
		The AFN Committee member asked which was the largest body of water being crossed	The Enbridge representative advised that the Sydenham River is the largest body of water being crossed.
		The AFN Committee member asked about the timelines on the project and why Enbridge was only meeting with them now.	The Enbridge representative provided some of the target dates the Project was looking to hit. The Enbridge representative also spoke to the timelines for communication with the Environmental Committee member. The AFN Environmental Coordinator confirmed receiving all of the information, reviewing it and working with Enbridge on the Project.
		An AFN committee member asked how First Nations vendors and	The Enbridge representative advised they would speak with the

		labourers go about being used on this Project similar to other Projects	Enbridge Construction Manager to ensure they reached out to AFN when this time in the Project was approaching.
Does the community have any outstanding concerns?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	To date, there are no outstanding concerns from AFN.	
Caldwell First Nation (“CFN”) Director of Operations 519-322-1766			
Was project information provided to the community?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>On February 26, 2020, an Enbridge representative notified Chief Duckworth and a CFN representative of the Project. The Project notification letter included a map and description of the Project.</p> <p>On March 9, 2020, an Enbridge representative sent an email to Chief Duckworth and a CFN representative providing an updated map of the route for the Project. On March 17, a CFN representative responded advising that the Chief was away on leave and would advise us if Council would like to meet on the Project.</p> <p>On April 8, 2020, a Stantec representative, working on behalf of Enbridge, sent the Notice of Commencement and Virtual Open House to Chief Duckworth. On April 29, 2020, the Stantec representative emailed the Virtual Open House presentation slides to the CFN representative.</p>	

		<p>On May 15, 2020, an Enbridge representative emailed the CFN representative to confirm that the CFN representative was able to access the Virtual Open House and provide a Notice of Project change that involved the additional of two additional alternative routes. The CFN representative responded back confirmed receipt of the email.</p> <p>On July 20, 2020, An Enbridge representative emailed the CFN representative to request a virtual meeting on the Project.</p> <p>On July 23, 2020, an Enbridge representative emailed the CFN representative to advise that the Environmental Report was available and provided the internet link for the report.</p> <p>On August 26, 2020, a vitural meeting was confirmed for September 18, 2020.</p>
<p>Was the community responsive/did you have direct contact with the community?</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>CFN and Enbridge representatives had been in contact through email. A meeting will be held on September 18, 2020.</p>
<p>Did the community members or representatives have any questions or concerns?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>At this point, there are no questions or concerns.</p>

<p>Does the community have any outstanding concerns?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>To date CFN does not have any outstanding concerns.</p>
<p>Chippewas of Kettle and Stony Point First Nation (“CKSPFN”) Consultation Coordinator 519-786-2125</p>		
<p>Was project information provided to the community?</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>On February 26, 2020, an Enbridge representative notified Chief Henry and CKSPFN representatives of the Project. The Project notification letter included a map and description of the Project.</p> <p>On March 9, 2020, an Enbridge representative sent an email to the CKSPFN representative providing an updated map of the route for the Project.</p> <p>On April 8, 2020, a Stantec representative, working on behalf of Enbridge, sent the Notice of Commencement and Virtual Open House to Chief Henry. On April 29, 2020, the Stantec representative emailed the Virtual Open House presentation slides to the CKSPFN representative.</p> <p>On May 15, 2020, an Enbridge representative emailed the CKSPFN representative to confirm that the CKSPFN representative was able to access the Virtual Open House and also provide a Notice of Project change that involved the additional of two additional alternative routes.</p>

		<p>On July 20, 2020, an Enbridge representative emailed the CKSPFN representative to request a virtual meeting on the Project.</p> <p>On July 23, 2020, an Enbridge representative emailed the CKSPFN representative to advise that the Environmental Report was available and provided the internet link for the report.</p> <p>On August 11, 2020, an Enbridge representative called the CKSPFN representative to set up a time to virtually meet on the Project. The CKSPFN's voicemail box was full and no message was left.</p> <p>On August 24, 2020, an Enbridge representative sent an email to the CKSPFN representative requesting a virtual meeting to discuss the Project.</p> <p>On August 31, 2020, an Enbridge representative called the CKSPFN representative and left a message with the receptionist for a return call.</p>
<p>Was the community responsive/did you have direct contact with the community?</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>The Enbridge representative has sent numerous emails and tried to reach the CKSPFN by telephone. There has been no response from the community.</p>
<p>Did the community members or representatives have any questions or concerns?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>At this point, there are no questions or concerns.</p>

<p>Does the community have any outstanding concerns?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>To date, CKSPFN does not have any outstanding concerns.</p>
<p>Chippewas of the Thames First Nation (“COTTFN”) Consultation Coordinator 519-289-5555</p>		
<p>Was project information provided to the community?</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>On February 26, 2020, an Enbridge representative notified Chief French and COTTFN representatives of the Project. The Project notification letter included a map and description of the Project.</p> <p>On March 9, 2020, an Enbridge representative sent an email to the COTTFN representative providing an updated map of the route for the Project.</p> <p>On April 8, 2020, a Stantec representative, working on behalf of Enbridge, sent the Notice of Commencement and Virtual Open House to Chief French. On April 29, 2020, the Stantec representative emailed the Virtual Open House presentation slides to the COTTFN representative.</p> <p>On May 15, 2020, an Enbridge representative emailed the COTTFN representative to confirm that the COTTFN representative able to access the Virtual Open House and also provide a Notice of Project change that involved the additional of two additional alternative routes.</p> <p>On July 20, 2020, an Enbridge representative emailed the COTTFN representative to request a virtual meeting on the Project.</p> <p>On July 23, 2020, An Enbridge representative emailed the COTTFN representative to advise that the Environmental Report was available and provided the internet link for the report.</p>

		<p>On August 11, 2020, an Enbridge representative called the COTTFFN representative to set up a time to virtually meet on the Project. The Enbridge representative left a voicemail for the COTTFFN representative requesting a return call.</p>
<p>Was the community responsive/did you have direct contact with the community?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>The Enbridge representative has sent numerous emails and tried to reach by telephone. There has been no response from the community.</p>
<p>Did the community members or representatives have any questions or concerns?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>Does the community have any outstanding concerns?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>To date COTTFFN does not have any outstanding concerns.</p>
<p>Oneida Nation of the Thames (“Oneida Nation”) Environment and Consultation Coordinator (519) 652-6922</p>		
<p>Was project information</p>	<p><input checked="" type="checkbox"/> Yes</p>	<p>On February 26, 2020, an Enbridge representative notified Chief Hill and an OFN representative of the Project. The</p>

provided to the community?	<input type="checkbox"/> No	<p>Project notification letter included a map and description of the Project.</p> <p>On March 9, 2020, an Enbridge representative sent an email to the OFN representative providing an updated map of the route for the Project.</p> <p>On April 8, 2020, a Stantec representative, working on behalf of Enbridge, sent the Notice of Commencement and Virtual Open House to Chief Hill. On April 29, 2020, the Stantec representative emailed the Virtual Open House presentation slides to the OFN representative.</p> <p>On May 15, 2020, an Enbridge representative emailed the OFN representative to confirm that the OFN representative was able to access the Virtual Open House and provide a Notice of Project change that involved the additional of two additional alternative routes.</p> <p>On July 20, 2020, an Enbridge representative emailed the OFN representative to request a virtual meeting on the Project. The OFN representative responded on July 20, 2020 advising that there was a new Chief and they would discuss best times for a virtual meeting.</p> <p>On July 23, 2020, An Enbridge representative emailed the OFN representative to advise that the Environmental Report was available and provided the internet link for the report.</p> <p>On July 29, 2020, an Enbridge representative responded to the OFN representatives July 20, 2020 email regarding a date for consultation. The date of the consultation meeting was set for July 30, 2020. The Enbridge representative provided the names of those attending and the presentations that would be used.</p> <p>On July 30, 2020, The Enbridge representatives met virtually with the OFN representative. The Enbridge representative reviewed the presentation and Project map.</p>
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		<p>The Enbridge representatives explained the purpose of the Project:</p> <ul style="list-style-type: none"> • Replacement Project to improve the integrity of the pipeline network and increase system flexibility. • Construction of approx. 83 km of high-pressure steel natural gas pipeline. • Replaces two current pipelines • Includes construction of a new secondary pipeline into the Municipality of Strathroy-Caradoc • Proposing to install pipeline within road allowance as much as possible. <p>The Enbridge representative went over the environmental aspects of the project including water crossings and Species at Risk. They provided the timelines for the Project and how the OEB process works.</p> <p>On July 31, 2020, an Enbridge representative sent an email to the OFN representative thanking him for his time to discuss the Project. The Enbridge representative also requested the dates for the additional meetings.</p> <p>On August 18, 2020, the Enbridge representative followed up with the OFN representative regarding the meeting with the Clan Mothers. An out of office was received from the OFN representative.</p>
<p>Was the community responsive/did you have direct contact with the community?</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Enbridge and OFN had multiple exchanges regarding the Project. A face to face meeting was held between Enbridge and OFN on July 30, 2020.</p>
<p>Did the community members or representatives have any</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>On July 30, 2020, OFN did not have any questions for the Enbridge representatives at that time. The OFN representative requested that Enbridge present on the</p>

<p>questions or concerns?</p>		<p>Project to Chief and Council as well as to the Clan Mothers.</p>
<p>Does the community have any outstanding concerns?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>To date OFN does not have any outstanding concerns.</p>
<p>Walpole Island First Nation (“WIFN”) Chief Miskokomon 519-628-5700</p>		
<p>Was project information provided to the community?</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>On February 26, 2020, an Enbridge representative notified Chief Miskokomon and a WIFN representatives of the Project. The Project notification letter included a map and description of the Project.</p> <p>On March 9, 2020, an Enbridge representative sent an email to the WIFN representative providing an updated map of the route for the Project.</p> <p>On April 8, 2020, a Stantec representative, working on behalf of Enbridge, sent the Notice of Commencement and Virtual Open House to Chief Miskokomon. On April 29, 2020, the Stantec representative emailed the Virtual Open House presentation slides to the WIFN representative.</p> <p>On May 15, 2020, an Enbridge representative emailed the WIFN representative to confirm that they were able to access the Virtual Open House and also provide a Notice of Project change that involved the additional of two additional alternative routes.</p>

		<p>On July 20, 2020, an Enbridge representative emailed the Chief to request a virtual meeting on the Project.</p> <p>On July 23, 2020, an Enbridge representative emailed the Chief to advise that the Environmental Report was available and provided the internet link for the report.</p> <p>On August 24, 2020, an Enbridge representative emailed the Chief requesting a virtual meeting.</p> <p>On August 31, 2020, an Enbridge representative called the Chief and a virtual meeting was set for September 9, 2020.</p>
<p>Was the community responsive/did you have direct contact with the community?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>The Enbridge representative has sent numerous emails. A virtual meeting is set for September 9, 2020.</p>
<p>Did the community members or representatives have any questions or concerns?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>Does the community have any</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>To date, there are no outstanding concerns from WIFN.</p>

outstanding concerns?		
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**INDIGENOUS CONSULTATION REPORT: LOG AND PROJECT
CORRESPONDENCE**

As of August 31, 2020

Aamjiwnaang First Nation ("AFN")					
Line Item	Date of Engagement	Method of Engagement	Summary of Engagement Activity	Response from Community/Outstanding Issues	Attachment
1.1	February 26, 2020	Email	An Enbridge representative notified Chief Plain and the Environment Coordinator for AFN of the Project. The Project notification letter included a map and description of the Project.	No response received from AFN representative	Attachment 1.1
1.2	March 9, 2020	Email	An Enbridge representative sent an email to Chief Plain and the Environment Coordinator for AFN providing an updated map of the route for the Project	No response received from AFN representative	Attachment 1.2
1.3	March 9, 2020	Email	The AFN representative emailed the Enbridge representatives with some dates to set up a meeting to discuss the Project.	Due to COVID shut-downs, no meeting was confirmed.	Attachment 1.3
1.4	April 8, 2020	Email	A Stantec representative, working on behalf of Enbridge, sent the Notice of Commencement and Virtual Open House to Chief Plain and AFN representatives	On April 29, 2020, the Stantec representative emailed the Virtual Open House presentation slides to the AFN representative.	Attachment 1.4
1.5	May 15, 2020	Email	An Enbridge representative emailed AFN's Environment Coordinator to confirm that they were able to access the Virtual Open House and also provide a Notice of Project change that involved the additional of two additional alternative routes.	No response received from AFN representative	Attachment 1.5
1.6	July 20, 2020	Email	An Enbridge representative emailed the AFN representative to request a virtual meeting on the Project.	No response received from AFN representative	Attachment 1.6
1.7	July 23, 2020	Email	An Enbridge representative emailed AFN's Environment Coordinator to advise that the Environmental Report was available and provided the internet link for the report.	No response received from AFN representative	Attachment 1.7
1.8	August 11, 2020	Email	An Enbridge representative emailed AFN's Environment Coordinator to see if a virtual consultation meeting could be set up to discuss the Project.	The AFN Environment Coordinator responded advising that an AFN member would be in touch to set up a meeting.	Attachment 1.8
1.9	August 18, 2020	Email	An AFN representative sent an email providing a date to meet to discuss on the Project	The Enbridge representative confirmed the date for a consultation meeting. On August 24, the Enbridge representative provided the AFN representative with a copy of the presentation and the names of those who would be attending the meeting.	Attachment 1.9
	August 24, 2020	Meeting between Enbridge and	The Enbridge representatives reviewed the presentation and Project map with AFN's Environment Committee.	The AFN Committee asked about what Enbridge does with the	

		<p>AFN's Environment Committee</p>	<p>The Enbridge representatives explained the purpose of the Project:</p> <ul style="list-style-type: none"> • Replacement Project to improve the integrity of the pipeline network and increase system flexibility. • Construction of approx. 83km of high pressure steel natural gas pipeline. • Replaces two current pipelines • Includes construction of a new secondary pipeline into the Municipality of Strathroy-Caradoc • Proposing to install pipeline within road allowance as much as possible. <p>The Enbridge representative went over the environmental aspects of the Project including water crossings and Species at Risk. They provided the timelines for the Project and how the OEB process works. After answering AFN's questions, the Enbridge representative advised it is requesting monitors from Indigenous communities and hoped AFN would have a monitor representative onsite.</p> <p>The Enbridge representative asked that the AFN committee reach out if there are any further questions or concerns about the Project.</p>	<p>abandoned pipe. The Enbridge representative explained that some parts of the old pipe will be abandoned in place in accordance with the proper procedure, and some parts will be removed depending on where the old pipe lies.</p> <p>The AFN Committee representative asked about the depth of the old and new pipe. The Enbridge representative advised that it is usually buried with 0.75 - 1 m cover. With the old pipe, due to land degradation, there are currently parts that are above ground or too close to the surface. This is one of the reasons the pipe needs replacement.</p> <p>The AFN Committee member asked if landowners can use the land that has the pipe below it. The Enbridge representative advised that the Lands Agent works the with landowners when maintenance is needed and to understand the landowner's use of the land to determine whether to proceed with abandonment or removal.</p> <p>The AFN Committee asked about the watercourses and if they were taken into consideration when planning the route of the pipeline. The Enbridge representatives advised that they examined all opportunities to avoid water crossing however, because this is a distribution pipeline feeding communities, they were not able to deviate from the current path.</p> <p>The AFN Committee member asked which was the largest body of water being crossed? The Enbridge representative advised that the Sydenham River is the largest body of water being crossed.</p>	
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				<p>The AFN Committee member asked about the timelines on the Project and why Enbridge was only meeting with them now. The Enbridge representative provided some of the target dates the Project was looking to hit. The Enbridge representative also spoke to the timelines for communication with the Environmental Committee member. The AFN Environmental Coordinator confirmed receiving all of the information, reviewing it and working with Enbridge on the Project.</p> <p>An AFN committee member asked how First Nations vendors and labourers go about being used on this Project similar to other Projects. The Enbridge representative advised they would speak with the Enbridge Construction Manager to ensure they reached out to AFN when this time in the Project was approaching.</p>	
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Caldwell First Nation ("CFN")

Line Item	Date of Engagement	Method of Engagement	Summary of Engagement Activity	Response from Community/Outstanding Issues	Attachment
2.1	February 26, 2020	Email	An Enbridge representative notified Chief Duckworth and a CFN representative of the Project. The Project notification letter included a map and description of the Project.	No response received from CFN representative	Attachment 2.1
2.2	March 9, 2020	Email	An Enbridge representative sent an email to Chief Duckworth and a CFN representative providing an updated map of the route for the Project	On March 17, a CFN representative responded advising that the Chief was away on leave and would advise us if Council would like to meet on the Project.	Attachment 2.2
2.3	April 8, 2020	Email	A Stantec representative, working on behalf of Enbridge, sent the Notice of Commencement and Virtual Open House to the CFN representatives	On April 29, 2020, the Stantec representative emailed the Virtual Open House presentation slides to the CFN representative.	Attachment 2.3
2.4	May 15, 2020	Email	An Enbridge representative emailed the CFN representative to confirm that they were able to access the Virtual Open House and provide a Notice of Project change that involved the additional of two additional alternative routes.	The CFN representative responded back confirmed receipt of the email.	Attachment 2.4

2.5	July 20, 2020	Email	An Enbridge representative emailed the CFN representative to request a virtual meeting on the Project.	On July 29, 2020, the CFN representative responded with a time to meet.	Attachment 2.5
2.6	July 23, 2020	Email	An Enbridge representative emailed the CFN representative to advise that the Environmental Report was available and provided the internet link for the report.	No response received from CFN representative	Attachment 2.6
2.7	July 29 and 30, 2020	Email	Enbridge and CFN exchanged emails regarding dates for a meeting to discuss the Project.	.	Attachment 2.7
2.8	August 24, 2020	Email	An Enbridge representative replied back to a July 30 email from the CFN representative providing some dates to meet on the Project.	On August 26, 2020, a CFN representative responded back suggesting September 18 to meet to discuss the Project. September 18 was confirmed for a virtual meeting.	Attachment 2.8

Chippewa of Kettle and Stony Point First Nation (“CKSPFN”)

Line Item	Date of Engagement	Method of Engagement	Summary of Engagement Activity	Response from Community/Outstanding Issues	Attachment
3.1	February 26, 2020	Email	An Enbridge representative notified Chief Henry and CKSPFN representatives of the Project. The Project notification letter included a map and description of the Project.	No response received from CKSPFN representative	Attachment 3.1
3.2	March 9, 2020	Email	An Enbridge representative sent an email to the CKSPFN representative providing an updated map of the route for the Project	No response received from CKSPFN representative	Attachment 3.2
3.3	April 8, 2020	Email	A Stantec representative, working on behalf of Enbridge, sent the Notice of Commencement and Virtual Open House to Chief Henry and CKSPFN representatives	On April 29, 2020, the Stantec representative emailed the Virtual Open House presentation slides to the CKSPFN representative.	Attachment 3.3
3.4	May 15, 2020	Email	An Enbridge representative emailed CKSPFN representative to confirm that they were able to access the Virtual Open House and also provide a Notice of Project change that involved the additional of two additional alternative routes.	No response received from CKSPFN representative	Attachment 3.4
3.5	July 20, 2020	Email	An Enbridge representative emailed the CKSPFN representative to request a virtual meeting on the Project.	No response received from CKSPFN representative	Attachment 3.5
3.6	July 23, 2020	Email	An Enbridge representative emailed the CKSPFN representative to advise that the Environmental Report was available and provided the internet link for the report.	No response received from CKSPFN representative	Attachment 3.6
	August 11, 2020	Telephone call	An Enbridge representative called the CKSPFN representative to set up a time to virtually meet on the Project. The CKSPFN's voicemail box was full and no message was left.		
3.7	August 24, 2020	Email	An Enbridge representative sent an email to the CKSPFN representative requesting a virtual meeting to discuss the Project	No response received from CKSPFN representative	Attachment 3.7

	August 31, 2020	Telephone	An Enbridge representative called the CKSPFN representative and left a message with the receptionist for a return call.		
Chippewas of the Thames First Nation ("COTTFN")					
Line Item	Date of Engagement	Method of Engagement	Summary of Engagement Activity	Response from Community/Outstanding Issues	Attachment
4.1	February 26, 2020	Email	An Enbridge representative notified Chief French and COTTFN representatives of the Project. The Project notification letter included a map and description of the Project.	No response received from COTTFN representative	Attachment 4.1
4.2	March 9, 2020	Email	An Enbridge representative sent an email to the COTTFN representative providing an updated map of the route for the Project	No response received from COTTFN representative	Attachment 4.2
4.3	April 8, 2020	Email	A Stantec representative, working on behalf of Enbridge, sent the Notice of Commencement and Virtual Open House to Chief French and COTTFN representatives	On April 29, 2020, the Stantec representative emailed the Virtual Open House presentation slides to COTTFN representatives.	Attachment 4.3
4.4	May 15, 2020	Email	An Enbridge representative emailed the COTTFN representative to confirm that they were able to access the Virtual Open House and also provide a Notice of Project change that involved the additional of two additional alternative routes.	No response received from COTTFN representative	Attachment 4.4
4.5	July 20, 2020	Email	An Enbridge representative emailed the COTTFN representative to request a virtual meeting on the Project.	No response received from COTTFN representative	Attachment 4.5
4.6	July 23, 2020	Email	An Enbridge representative emailed the COTTFN representative to advise that the Environmental Report was available and provided the internet link for the report.	No response received from COTTFN representative	Attachment 4.6
	August 11, 2020	Telephone call	An Enbridge representative called the COTTFN representative to set up a time to virtually meet on the Project. The Enbridge representative left a voicemail for the COTTFN representative requesting a return call.		
Oneida First Nation ("OFN")					
Line Item	Date of Engagement	Method of Engagement	Summary of Engagement Activity	Response from Community/Outstanding Issues	Attachment
5.1	February 26, 2020	Email	An Enbridge representative notified Chief Hill and an OFN representative of the Project. The Project notification letter included a map and description of the Project.	No response received from OFN representative	Attachment 5.1
5.2	March 9, 2020	Email	An Enbridge representative sent an email to the OFN representative providing an updated map of the route for the Project	No response received from OFN representative	Attachment 5.2
5.3	April 8, 2020	Email	A Stantec representative, working on behalf of Enbridge, sent the Notice of Commencement and Virtual Open House to Chief Henry and CKSPFN representatives	No response received from CKSPFN representative	Attachment 5.3
5.4	May 15, 2020	Email	An Enbridge representative emailed the OFN representative to confirm that they were able to access the Virtual Open House and provide a Notice of Project	No response received from OFN representative	Attachment 5.4

			change that involved the additional of two additional alternative routes.		
5.5	July 20, 2020	Email	An Enbridge representative emailed the OFN representative to request a virtual meeting on the Project.	The OFN representative responded on July 20, 2020 advising that there was a new Chief and they would discuss best times for a virtual meeting.	Attachment 5.5
5.6	July 23, 2020	Email	An Enbridge representative emailed the OFN representative to advise that the Environmental Report was available and provided the internet link for the report.		Attachment 5.6
5.7	July 29, 2020	Email	An Enbridge representative responded to the OFN representatives July 20, 2020 email regarding a date for a meeting. The date of the meeting was set for July 30, 2020. The Enbridge representative provided the names of those attending and the presentations that would be used.	OFN confirmed a meeting for July 30, 2020	Attachment 5.7
5.8	July 30, 2020	Virtual meeting between Enbridge and OFN.	<p>The Enbridge representatives reviewed the presentation and Project map.</p> <p>The Enbridge representatives explained the purpose of the Project:</p> <ul style="list-style-type: none"> • Replacement Project to improve the integrity of the pipeline network and increase system flexibility. • Construction of approx. 83 km of high-pressure steel natural gas pipeline. • Replaces two current pipelines • Includes construction of a new secondary pipeline into the Municipality of Strathroy-Caradoc • Proposing to install pipeline within road allowance as much as possible. <p>The Enbridge representative went over the environmental aspects of the project including water crossings and Species at Risk. They provided the timelines for the Project and how the OEB process works.</p>	There were no questions from the OFN representative. The OFN representative requested that Enbridge present to Chief and Council as well as the Clan Mothers. Enbridge agreed to this and said it would defer to the OFN representative for the dates for the meetings.	Attachment 5.8
5.9	July 31, 2020	Email	The Enbridge representative sent an email to the OFN representative thanking him for his time to discuss the Project. The Enbridge representative also requested the dates for the additional meetings.		Attachment 5.9
5.10	August 18, 2020	Email	The Enbridge representative followed up with the OFN representative regarding the meeting with the Clan Mothers.	An out of office was received from the OFN representative.	Attachment 5.10

Walpole Island First Nation ("WIFN")

Line Item	Date of Engagement	Method of Engagement	Summary of Engagement Activity	Response from Community/Outstanding Issues	Attachment
6.1	February 26, 2020	Email	An Enbridge representative notified Chief Miskokomon and a WIFN representatives of the Project. The Project notification letter included a map and description of the Project.	No response received from WIFN representative	Attachment 6.1
6.2	March 9, 2020	Email	An Enbridge representative sent an email to the WIFN representative providing an updated map of the route for the Project	No response received from WIFN representative	Attachment 6.2

6.3	April 8, 2020	Email	A Stantec representative, working on behalf of Enbridge, sent the Notice of Commencement and Virtual Open House to Chief Henry and CKSPFN representatives	On April 29, 2020, the Stantec representative emailed the Virtual Open House presentation slides to the AFN representative.	Attachment 6.3
6.4	May 15, 2020	Email	An Enbridge representative emailed the WIFN representative to confirm that they were able to access the Virtual Open House and also provide a Notice of Project change that involved the additional of two additional alternative routes.	No response received from WIFN representative	Attachment 6.4
6.5	July 20, 2020	Email	An Enbridge representative emailed the Chief to request a virtual meeting on the Project.	No response received from WIFN representative	Attachment 6.5
6.6	July 23, 2020	Email	An Enbridge representative emailed the Chief to advise that the Environmental Report was available and provided the internet link for the report.	No response received from WIFN representative	Attachment 6.6
6.7	August 24, 2020	Email	An Enbridge representative emailed the Chief requesting a virtual meeting.	No response received from WIFN representative	Attachment 6.7
6.8	August 31, 2020	Telephone call	An Enbridge representative called the WIFN representative to set up a time to virtually meet on the Project.	WIFN confirmed a meeting date of September 9, 2020.	Attachment 6.8

Attachment 1.1

From: [REDACTED]
Sent: Wednesday, February 26, 2020 2:56 PM
To: 'Chris Plain' <[REDACTED]@aamjiwnaang.ca>; [REDACTED]@aamjiwnaang.ca'
<[REDACTED]@aamjiwnaang.ca>
Cc: [REDACTED]@enbridge.com>
Subject: Enbridge Gas London Lines Project

Good afternoon Chief Plain,

Please find attached our notification letter and map for the Enbridge Gas Inc. London Lines Project.

-

We would like to set up a time to come to speak with your environment/consultation committee to discuss the project and provide you with details. Please reach out to [REDACTED] to arrange for a time for discussion.

We look forward to working with you on this project.

Thank you,

[REDACTED]



Enbridge Gas Inc
50 Kell Drive
Chatham, Ontario
N7M 5M1

Chief Christopher Plain
Aamjiwnaang First Nation
978 Tashmoo Avenue
Sarnia, Ontario
N7T 7H5

February 26, 2020

Re: London Lines Replacement Project

Dear Chief Plain,

Enbridge Gas has identified the need to replace an existing set of pipelines which run from Enbridge Gas' Dawn Hub facility in the Township of Dawn-Euphemia, to Komoka in the Municipality of Middlesex Centre. Additionally, a new pipeline will be installed connecting the replacement pipeline to Strathroy in the Municipality of Strathroy-Caradoc. The project also involves upgrades to services and stations along the route.

The existing pipeline is located in both existing road allowances as well as within easements. The replacement pipeline will be located in the same road allowances where possible to ensure existing customers are still able to have natural gas delivered. Where possible, pipeline that is currently in an easement will be moved to existing road allowances.

We would like to consult with your community on this proposed project. We are interested in your community's feedback, including any suggestions or proposals on mitigating, avoiding or accommodating any potential impacts to Aboriginal or treaty rights.

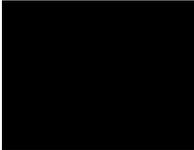
Enbridge Gas Inc. has been delegated the procedural aspects for consultation by the Ministry of Energy on behalf of Ontario. Ministry officials are also available should you wish to contact them directly with any questions or concerns. Please contact:

[REDACTED]
Policy Advisor
Indigenous Energy Unit
Ministry of Energy, Northern Development and Mines

[REDACTED]
[REDACTED]@ontario.ca

We would like to set up a meeting to discuss our project with you and provide you with an opportunity to express any questions or concerns you have. Please feel free to contact me at [REDACTED]@enbridge.com or [REDACTED] so we can set up a time to meet.

Miigwetch,

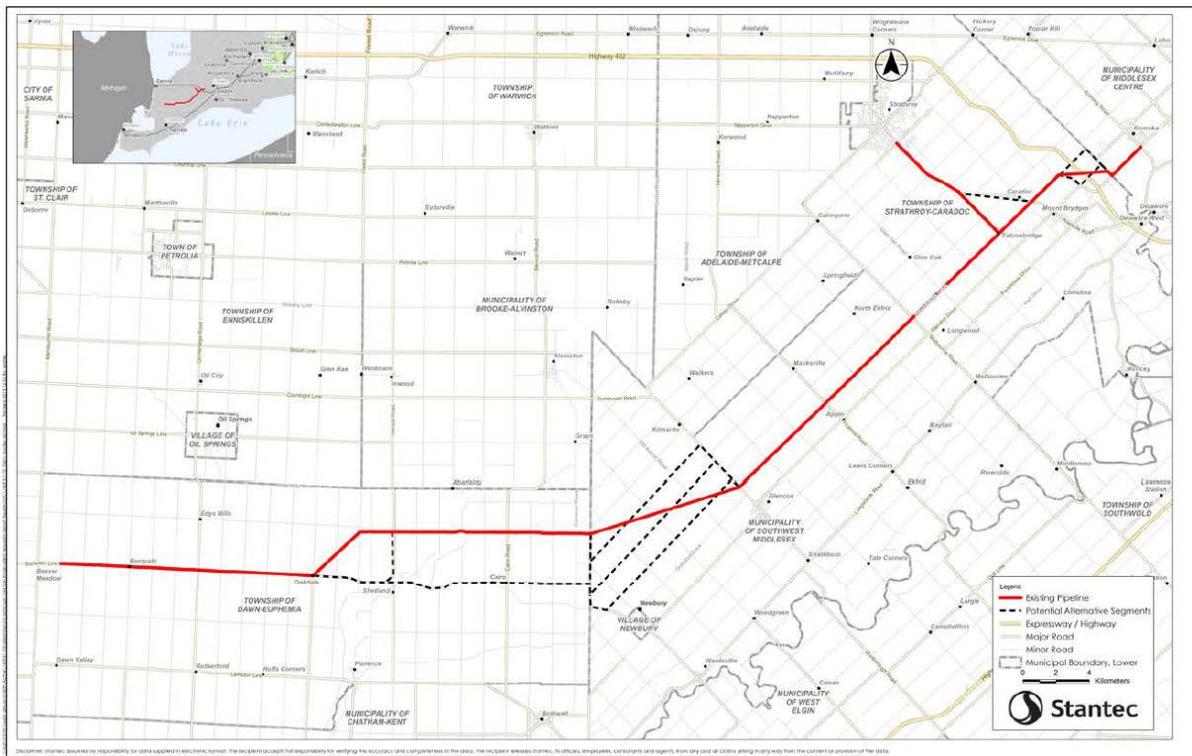


Senior Advisor, Indigenous Affairs
Enbridge Gas Inc

P: [REDACTED]

C: [REDACTED]

Toll Free: [REDACTED]



Attachment 1.2

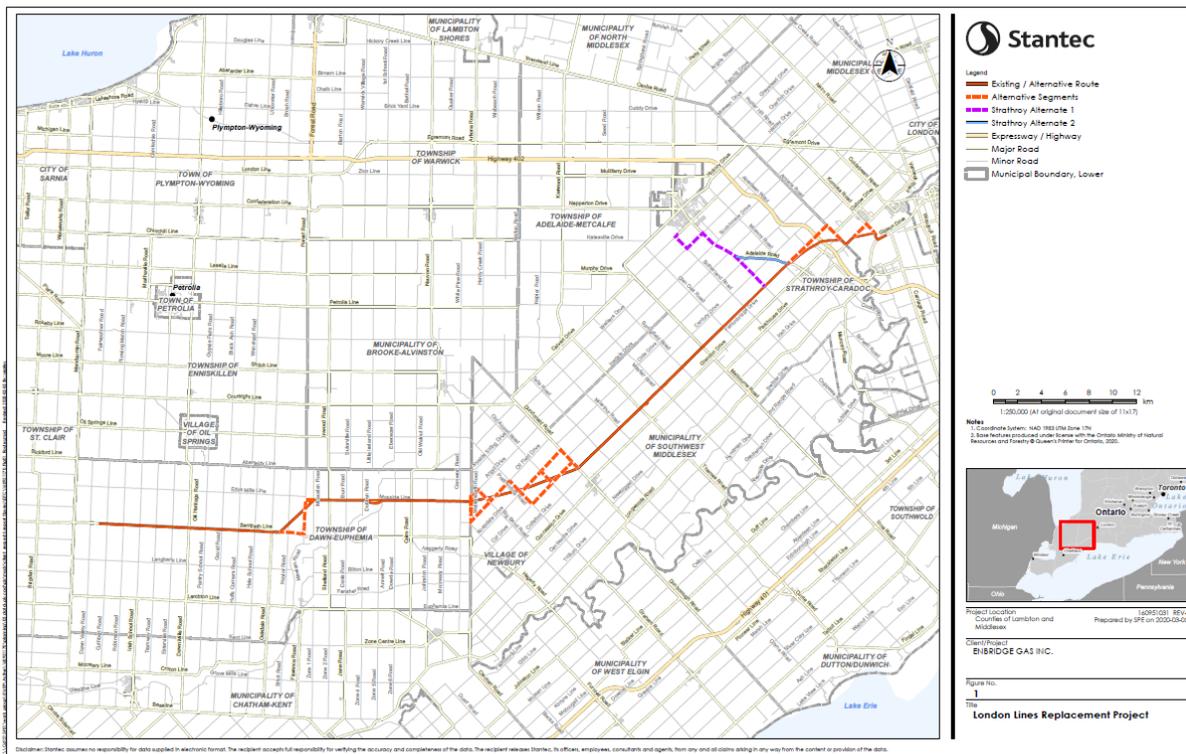
From: [REDACTED]
To: "Chris Plain"; [REDACTED]@aamjiwnaang.ca
Cc: [REDACTED]@stantec.com
Subject: FW: Enbridge Gas London Lines Project
Date: Monday, March 9, 2020 2:05:00 PM
Attachments: [London Lines map.pdf](#)

Good afternoon,

Further to the email below, please find attached an updated map of the route for the Project.

We look forward to consulting with you on this project.

Thank you,



Attachment 1.3

From: [REDACTED]
To: [REDACTED]
Cc: [REDACTED]
Subject: [External] FW: Available AFN Environment Committee Meeting Dates for Enbridge Gas London Lines Project
Date: Monday, March 9, 2020 3:48:24 PM

EXTERNAL: PLEASE PROCEED WITH CAUTION.

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Hi [REDACTED]

As a follow up to your email, please find below the available Aamjiwnaang Environment Committee meeting dates to discuss Enbridge Gas, London Lines Project:

Tuesday March 24th, 2020 in AFN Council Chambers from 5:00 PM - 8:00 PM

Tuesday April 7th, 2020 in AFN Council Chambers from 5:00 PM - 8:00 PM

Tuesday April 21st, 2020 in AFN Council Chambers from 5:00 PM - 8:00 PM

*All are subject to change.

Miigwetch,

[REDACTED]
Environment Coordinator,
Aamjiwnaang First Nation
978 Tashmoo Ave.,
Sarnia, ON N7T 7H5

[REDACTED]

Attachment 1.4

From: [REDACTED]
To: [REDACTED] [@aamjiwnaang.ca](mailto:[REDACTED]@aamjiwnaang.ca)
Cc: [REDACTED] [@enbridge.com](mailto:[REDACTED]@enbridge.com); [REDACTED] [@enbridge.com](mailto:[REDACTED]@enbridge.com); [REDACTED] [@stantec.com](mailto:[REDACTED]@stantec.com)
Subject: Enbridge Gas Inc.: Notice of Commencement and Virtual Open House - London Lines Replacement Project (LLRP)
Date: Wednesday, April 8, 2020 6:50:00 PM
Attachments: [let_160951170_Indigenous_NoC-VOH_CPlain_2020-04-08_fnl.pdf](#)

Sent on behalf of [REDACTED] (Enbridge Gas Inc.)

Good evening,

Please find attached a Notice of Commencement and Virtual Open House regarding the Enbridge Gas Inc. ("Enbridge") London Lines Replacement Project (LLRP).

Regards,

[REDACTED] B.Sc., EP.
Environmental Consultant, Assessment and Permitting

Direct: [REDACTED]
Mobile: [REDACTED]
[REDACTED] [@stantec.com](mailto:[REDACTED]@stantec.com)

Stantec
1-70 Southgate Drive
Guelph ON N1G 4P5



Stantec Consulting Ltd.
300W-675 Cochrane Drive Markham, ON L3R 0B8



April 8, 2020

Attention: Chief Christopher Plain
Aamjiwnaang First Nation
978 Tashmoo Avenue
Sarnia ON N7T 7H5

Dear Chief Plain,

Reference: Enbridge Gas – London Lines Replacement Project, Notice of Project Commencement and Virtual Open House

Enbridge Gas is proposing to replace a section of natural gas pipeline in order to improve the integrity of the pipeline network and to increase system flexibility. All current services will be maintained as a result of this project.

The London Lines Replacement Project (LLRP) will include the construction of approximately 75 kilometers (km) of 8-inch, high pressure natural gas pipeline. This will replace the two current pipelines known collectively as the London Lines. The LLRP will also include the construction of 10.5 km of a secondary 8-inch pipeline which will connect the replaced pipeline to the community of Strathroy. The LLRP will start within the Township of Dawn-Euphemia near Oil Heritage Road and Bentpath Lane. The pipeline project will continue through the municipality of Southwest Middlesex and will end at two locations: within the Municipality of Middlesex Centre at Komoka Road and Glendon Drive; and at a proposed new station at Calvert Drive and Sutherland Road in the Municipality of Strathroy-Caradoc. The general location and study area of the proposed pipeline is shown on the attached map.

As part of the planning process, Enbridge Gas has retained Stantec Consulting Ltd. (Stantec) to undertake an Environmental Study of the construction and operation for the proposed natural gas pipeline. The Environmental Study will fulfill the requirements of the Ontario Energy Board's (OEB) "Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 7th Edition (2016)".

An Environmental Report, summarizing the results of the Environmental Study, will accompany Enbridge's application to the OEB as part of their Leave to Construct (LTC) application. The Environmental Report for the proposed project is anticipated to be completed by early summer 2020. The OEB's review and approval is required before construction of the Project can proceed. If approved, construction of the pipeline is anticipated to begin in Spring/Summer 2021.

Aamjiwnaang First Nation is invited to provide comments regarding the proposed pipeline. Specifically, Stantec is seeking information about any adverse impacts that the proposed project may have on constitutionally protected Aboriginal or treaty rights and any measures for mitigating those adverse impacts.

Stantec is presently compiling an environmental, socio-economic, and archaeological/cultural heritage inventory of the Environmental Study Area. As an Indigenous community with a potential interest in developments in that area, you are invited to provide or coordinate comments regarding the proposed pipeline.

As part of the Environmental Study, Enbridge is in the process of contacting the following agencies:

- Indigenous and Northern Affairs Canada; and
- Ontario Ministry of Indigenous Relations and Reconciliation.

Design with community in mind



April 8, 2020
Page 2 of 2



Reference: Enbridge Gas Distribution Inc. – London Lines Replacement Project, Notice of Project Commencement and Information Session

Public consultation with Indigenous communities, landowners, government agencies, current customers serviced by the London Lines, the general public, and other interested persons is an integral component of the planning process. As a result of the social distancing requirements set out by the Government of Canada and the Province of Ontario due to COVID-19, a Virtual Open House will be held in place of an in-person Open House regarding the proposed LLRP. The Virtual Open House will be available beginning on April 20, 2020 at 9:00 am EST until May 1, 2020 at 5:00 pm EST at:

www.solutions.ca/LondonLines

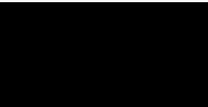
If you are unable to log onto the Virtual Open House between April 20 and May 1, please dial (519) 780-8186, leave a message with your contact information, and we will respond as soon as possible.

There will be a questionnaire available at the end of the presentation and you will have the ability to submit comments and/or questions about the proposed LLRP, including proposed routes, design and the anticipated project schedule during the presentation. In addition, a copy of the open house story boards will be available to download. Input received will be used to inform the selection of the preferred pipeline route, and to develop site specific environmental protection or mitigation measures for the Project.

If you have questions or concerns regarding the Project, please do not hesitate to contact the undersigned.

Regards,

ENBRIDGE GAS INC.



Senior Advisor, Indigenous Affairs
Enbridge Gas Inc.
50 Keil Drive North
Chatham, ON, N7M 5M1

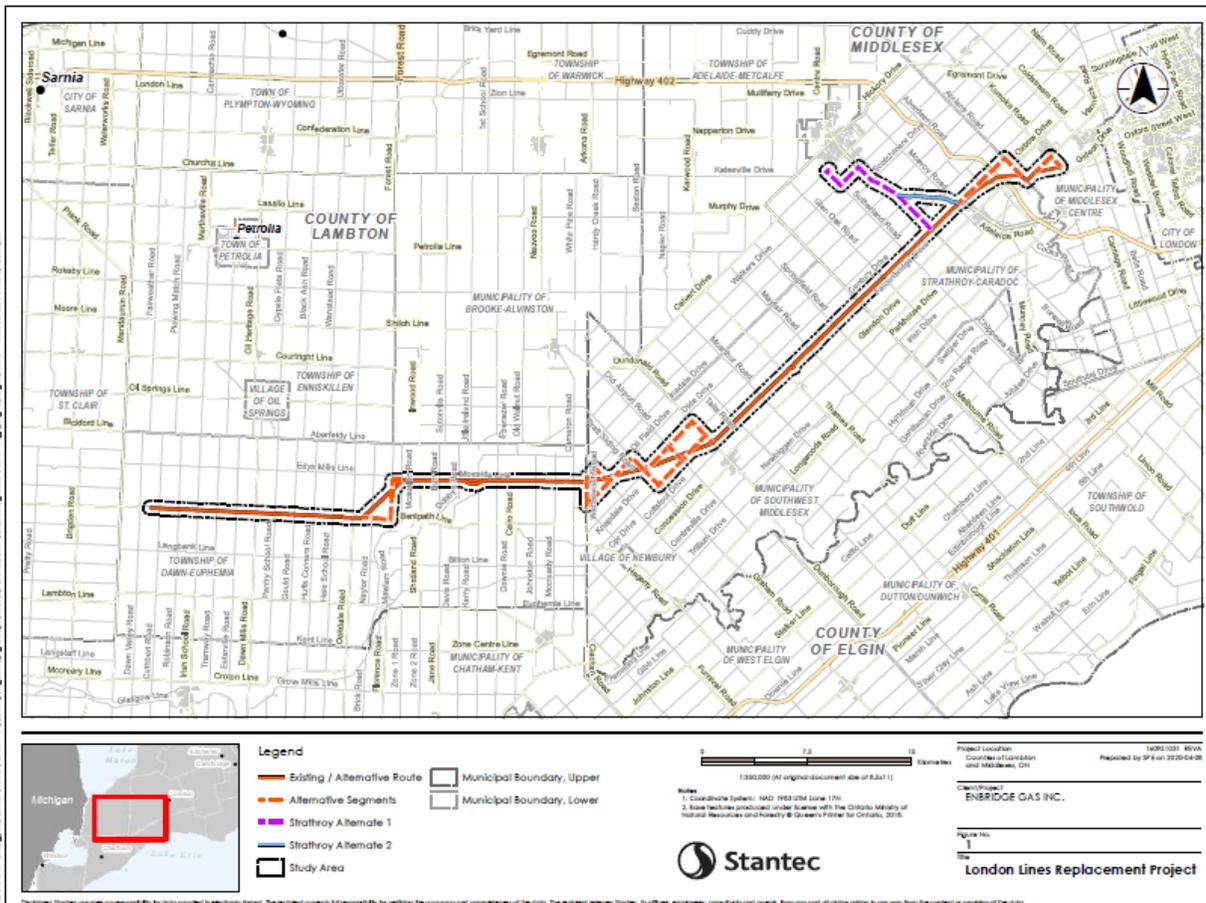
PH:

Cell:

@enbridge.com

Attachment: Figure 1: London Lines Replacement Project

c. [Redacted] Sr. Environmental Analyst, Enbridge Gas Inc.
[Redacted] Senior Project Manager, Stantec Consulting Ltd.



Disclaimer: Stantec assumes no responsibility for data supplied by others. Stantec is not responsible for verifying the accuracy and completeness of the data. The related information, including, but not limited to, engineering, consultant and agency, from any and all third parties, is not to be relied upon or published in any way from the content or position of the data.

From: [REDACTED]
To: [REDACTED]
Cc: [REDACTED]@stantec.com
Subject: Enbridge Gas London Lines Project: Open House and Alternative Route
Date: Friday, May 15, 2020 9:53:00 AM
Attachments: let 160951170 Aamijwaaanq Notice-of-Change 20200513 fnl.pdf

Good morning,

We hope this finds you and your family well.

I am following up with you on the Enbridge Gas London Lines Project on two topics.

First, we just wanted to follow up to confirm if you were able to access and view the VOH (Virtual Open House) for the London Lines Project? If you had any comments or would like more follow up please do not hesitate to contact us. We will be in contact with you regarding an opportunity for you to participate in monitoring on site for the Archaeological and Environmental surveys.

Secondly, I have attached a Notice of Project Change on the Enbridge Gas London Lines Project. For this Project, a third and fourth alternate route have been identified and included for consideration ("Strathroy Alternate 3" and "Strathroy Alternate 4") for the secondary pipeline to the community of Strathroy.

Stantec is request that any questions and/or comments regarding the Notice of Project Change or the proposed project be sent to them by May 29, 2020. The contact information for Stantec is also in the attachment.

If you have any questions or concerns about these two items, please feel free to reach out to [REDACTED] or myself and we would be happy to assist.

We hope you enjoy the long weekend and take care.

Many thanks,
[REDACTED]



Stantec Consulting Ltd.
300W-675 Cochrane Drive, Markham ON L3R 0B8



May 13, 2020

Aamjiwnaang First Nation
978 Tashmoo Avenue
Samia, ON N7T 7H5

Dear Sir/Madam,

Reference: Enbridge Gas Inc. – London Lines Replacement Project: Notice of Project Change

Enbridge Gas Inc. (Enbridge) is proposing to replace a section of natural gas pipeline known as the London Lines in order to improve the integrity of the pipeline network and to increase system flexibility, as indicated in Enbridge's notification on April 8, 2020. The London Lines Replacement Project (LLRP) will include the construction of approximately 75 kilometers (km) of 8-inch, high pressure natural gas pipeline. This will replace the two current pipelines known collectively as the London Lines. The LLRP will also include the construction of approximately 10.5 km of a secondary 8-inch pipeline which will connect the replaced pipeline to the community of Strathroy.

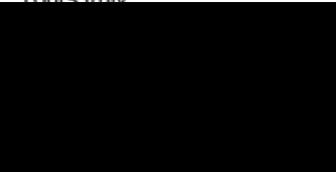
You are receiving this letter because a third and fourth alternate route have been identified and included for consideration ("Strathroy Alternate 3" and "Strathroy Alternate 4") for the secondary pipeline to the community of Strathroy. For more details, please refer to the attached map.

As part of the planning process, Enbridge has retained Stantec Consulting Ltd. (Stantec) to undertake an Environmental Study of the construction and operation for the proposed natural gas pipeline. The Environmental Study will fulfill the requirements of the Ontario Energy Board's (OEB) "Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 7th Edition (2016)".

An Environmental Report, summarizing the results of the Environmental Study, will accompany Enbridge's application to the OEB as part of their Leave to Construct (LTC) application. The Environmental Report for the proposed project is anticipated to be completed by summer 2020. The OEB's review and approval is required before construction of the Project can proceed. If approved, construction of the pipeline is anticipated to begin in Spring/Summer 2021.

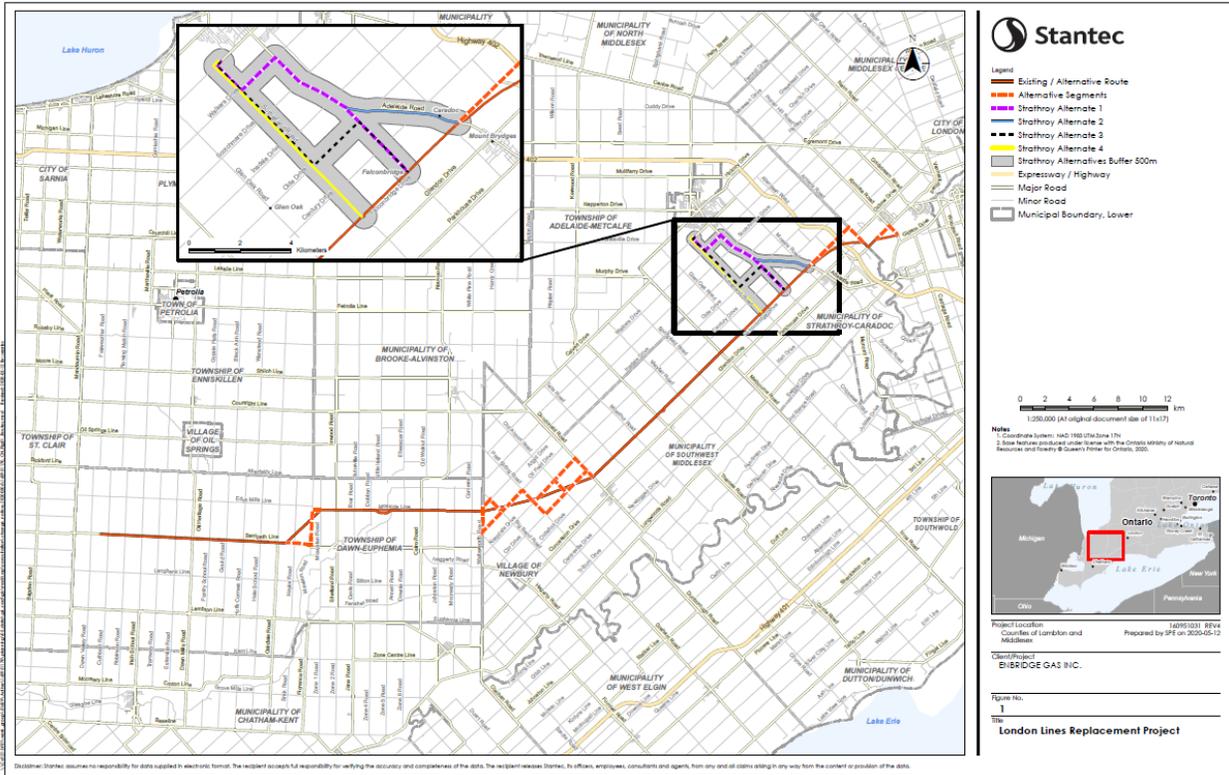
We request that any questions and/or comments regarding the Notice of Project Change or the proposed project be sent to the following contacts by May 29, 2020.

Yours truly,



Senior Associate, Senior Project Manager

Phone: [REDACTED]
[REDACTED]@stantec.com



Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient waives Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.

From: [REDACTED]
To: "Chris Plain"; [REDACTED]
Cc: [REDACTED]
Bcc: [REDACTED]@stantec.com
Subject: Virtual Meeting: Enbridge Gas London Lines Project
Date: Monday, July 20, 2020 10:04:00 AM
Attachments: Aamiwnaano London Lines notification.pdf
LLRP Preferred Route pq965.pdf

Good morning Chief and [REDACTED]

Hope this finds you well and enjoying the summer weather.

We wanted to touch base on the London Lines Replacement Project that Enbridge is currently in the process of planning. Enbridge has identified the need to replace an existing set of pipelines which run from

Enbridge Gas' Dawn Hub facility in the Township of Dawn-Euphemia, to Komoka in the Municipality of Middlesex Centre. Additionally, a new pipeline will be installed connecting the replacement pipeline to Strathroy in the Municipality of Strathroy-Caradoc. The project also involves upgrades to services and stations along the route. Please find attached our initial notification letter as well as an updated map of the preferred route.

We would like to set up a virtual meeting to provide you with an opportunity to ask any questions and provide your views on the potential impact the Project may have on your community's rights and interests, so we can address these impacts, as appropriate.

Also, as you likely already know, [REDACTED] has retired from Enbridge. [REDACTED] will be replacing [REDACTED] in the role of Indigenous Advisor. [REDACTED] contact information is [REDACTED]@enbridge.com and his cell is [REDACTED]. Please feel free to reach out to [REDACTED] or myself with any questions or concerns going forward.

Please let us know how best to proceed in setting up a virtual meeting. We look forward to the opportunity to speak with you about the project.

Many thanks,

[REDACTED]

Attachment 1.7

From: [REDACTED]
To: "Chris Plain"; [REDACTED]
Cc: [REDACTED]@stantec.com; [REDACTED]
Subject: London Lines Replacement Project: Environmental Report
Date: Thursday, July 23, 2020 10:08:00 AM

Good morning,

As you are aware, Enbridge Gas Inc. (Enbridge Gas) is seeking to construct a natural gas pipeline in order to replace a section of an existing natural gas pipeline in the Counties of Lambton and Middlesex . The Ontario Energy Board's *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7th Edition 2016* (Guidelines) recommend that a project proponent provide a copy of the environmental report (ER) for a project to the Ontario Pipeline Coordinating Committee for review and comment. In the link below please find a copy of the ER for the London Lines Replacement Project (the Project). Pursuant to the Guidelines please provide any comments on the ER for the Project by no later than Thursday September 3, 2020. You can access the ER at the link below and navigating to the Projects Tab and London Lines Replacement drop down.

<https://www.enbridgegas.com/About-Us>

Comments should be directed to:

[REDACTED]
Advisor, Environment
Enbridge Gas Inc.
101 Honda Boulevard
Markham, Ontario
L6C 0M6
Cell: [REDACTED]
Email: [REDACTED]@stantec.com

Many thanks and take care,

[REDACTED]

Attachment 1.8

From: [REDACTED]@enbridge.com>
Sent: Tuesday, August 11, 2020 7:31 AM
To: [REDACTED]@aamjiwnaang.ca>
Subject: Available AFN Environment Committee Meeting Dates for Enbridge Gas London Lines Project

Good morning [REDACTED]

I hope this finds you well and enjoying the summer. I was going through my emails to find your telephone number and came across this email. I'm not sure if [REDACTED] ever touched base again with you.

This email came just as we were all shutting down for COVID. I apologize for not following up earlier.

Would the AFN Environment Committee be meeting virtually during this time that we could have a call to discuss the London Lines Project? I would have the Project Manager and Environmental Planner on the call as well as [REDACTED] to discuss your community's feedback, including any suggestions or proposals on mitigating, avoiding or accommodating any potential impacts.

Again, I hope this finds you well and we look forward to speaking with you.

Thanks,
[REDACTED]

From: [REDACTED]
To: [REDACTED]
Cc: [Aamjiwnaang Environment](#)
Subject: [External] RE: Available AFN Environment Committee Meeting Dates for Enbridge Gas London Lines Project
Date: Tuesday, August 11, 2020 10:28:39 AM

EXTERNAL: PLEASE PROCEED WITH CAUTION.

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

[REDACTED]
[REDACTED] from our consultation department, will be in touch with you about presenting at an upcoming Environment Committee meeting.

Miigwetch
[REDACTED]

From: Aamjiwnaang Environment
To: [REDACTED]
Cc: [REDACTED]
Subject: [External] Environment Committee Meeting
Date: Tuesday, August 18, 2020 9:25:26 AM

EXTERNAL: PLEASE PROCEED WITH CAUTION.

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Good Morning [REDACTED],

My name is [REDACTED] and I am the Environment Worker for the Aamjiwnaang First Nation. I was asked to touch base with you by [REDACTED].

I was also hoping that you and your team would be available to join us for our next meeting on Tuesday August 25, 2020 at 5:00 P.M.?

The meeting will be held virtually using the Microsoft Teams platform.

I apologize for the short notification, but also hope that you will be able to present that day. Would you be able to send me information regarding your presentation so that I can add it to the meeting agenda, as soon as possible?

Thank you

[REDACTED]
Environment Worker

From: [REDACTED] <[REDACTED]@enbridge.com>
Sent: Tuesday, August 18, 2020 10:51 AM
To: Aamjiwnaang Environment <[REDACTED]@aamjiwnaang.ca>
Cc: [REDACTED] <[REDACTED]@aamjiwnaang.ca>
Subject: RE: Environment Committee Meeting

Good morning,

Thank you for your note back. That times works for us and we appreciate the opportunity.

I will pull together the information and get it over to you as soon as possible.

Thanks,
[REDACTED]

From: Aamjiwnaang Environment <[REDACTED]@aamjiwnaang.ca>
Sent: Tuesday, August 18, 2020 12:01 PM
To: [REDACTED]@enbridge.com>
Subject: [External] RE: Environment Committee Meeting

EXTERNAL: PLEASE PROCEED WITH CAUTION.

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Just a reminder that there is a one hour time slot for your presentation and question period.

[REDACTED]

From: [REDACTED]@enbridge.com>
Sent: Monday, August 24, 2020 9:42 AM
To: Aamjiwnaang Environment [REDACTED]@aamjiwnaang.ca>
Subject: RE: Environment Committee Meeting

Good morning [REDACTED],

My sincere apologies. I just found this in my "drafts" as I meant to send it on Thursday.

Please find attached the presentation we will use for our discussion on the London Lines Replacement Project.

We appreciate the hour time and look forward to your questions and discussion.

I have a couple people from Enbridge attending and will forward the invite to them. These people are the ones leading the Project and are best for questions regarding route, Species at Risk etc.

Attending:

[REDACTED] Indigenous Advisor
[REDACTED] – Project Manager
[REDACTED] Environmental Planner
Myself, Analyst, Indigenous Affairs

Thanks so much.

[REDACTED]

From: Aamjiwnaang Environment
To: [REDACTED]
Subject: [External] RE: Environment Committee Meeting
Date: Monday, August 24, 2020 9:59:08 AM

EXTERNAL: PLEASE PROCEED WITH CAUTION.

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Hello [REDACTED]

Thank you very much for sending the information.

No worries, I understand that things can get extremely busy.

Looking forward to meeting everyone tomorrow.

Thank you,
[REDACTED]

Enbridge Gas London Lines Replacement Project

2020



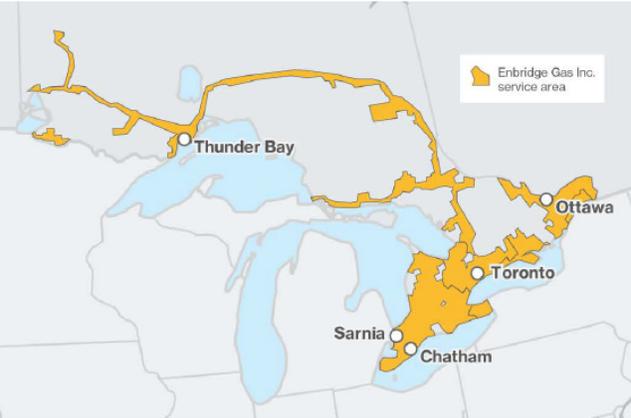
Enbridge Gas Inc.

North America's largest natural gas storage,
transmission and distribution company



We deliver the energy that enhances peoples quality of life.

- **Values**
Safety, Integrity, Respect.
- **Experience**
170+ years of experience in safe and reliable service.
- **Distribution Business**
3.7M customers, heating >75% of Ontario homes.
- **Dawn Storage Hub**
Canada's largest and one of the top-5 natural gas trading hubs in North America.
- **Advancing Innovative Low-Carbon Solutions**
Conservation, cleaner technologies for heat / transportation (CNG, geothermal), green fuels (RNG, Hydrogen)



Formed Jan. 1, 2019 from the amalgamation of Union Gas Limited and Enbridge Gas Distribution.

Safety is our #1 priority



We invested
\$2.8B
2012-19 to maintain the
integrity of our system

We performed
177
pipeline integrity
inspections in 2019

We monitor our lines
24-7-365
with people and computerized
leak detection systems

We held
25
emergency exercises
drills in 2019



Above all else, we are always working to ensure the safety of our people, neighbors and the environment

Our Values: Safety

3

London Lines Replacement Project



Purpose

- Project is called London Lines Replacement Project (LLRP).
- Proposing to replace the London Lines from Dawn to Komoka as part of Enbridge Gas Inc (EGI's) Asset Management Plan to improve the integrity of the pipeline network and to increase system flexibility.
- Majority of existing London Lines installed between 1930's to 1950's with some sections abandoned and other sections replaced.
- Due to the nature of the scope, Ontario Energy Board (OEB) approval of the project is required prior to construction start.

4

London Lines Replacement Project



Project details

- Project will include the construction of approximately 83 kilometers of 8 inch, high pressure, steel, natural gas pipeline.
- This will replace the two current pipelines known collectively as the London Lines.
- The LLRP will also include the construction of a new secondary pipeline, to connect the replaced 8-inch pipeline to the Municipality of Strathroy-Caradoc (8.4 km).
- All current services will be maintained as a result of this project.
- The proposed pipeline is considered a high pressure distribution pipeline where individual homes and businesses will continue to have the ability to connect.
- The proposed pipeline route is to install the pipeline within the road allowance in which the existing pipeline(s) are located to maintain customer access to gas, and where possible, consider relocating the pipeline from private easements to road allowance to provide additional access to customers
- Goal – decommission and leave in place existing London Lines and remove where required – as outlined in existing franchise agreement.

5

London Lines Replacement Project



Project details

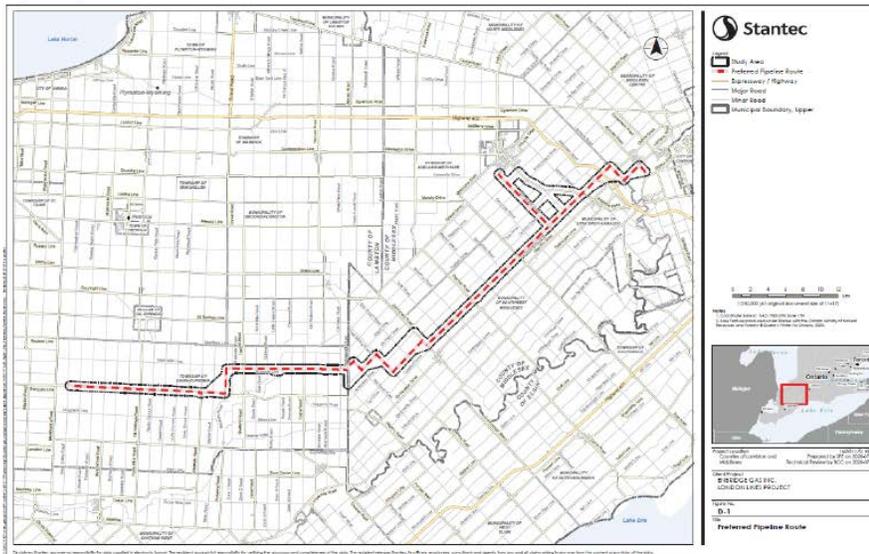
- Project is subject to Ontario Energy Board (OEB) approval.
- OEB application will be submitted August 2020.
- Construction timeline: Pre-work in fall 2020. On-site from Spring 2021 to Winter 2021. Clean-up and restoration work in 2022.

6

London Lines Replacement Project



Project Maps – preferred and alternate routes



7

London Lines Replacement Project



- Depending on the final preferred route the pipeline will cross up to 99 watercourses, 6 wetlands and the Sydenham River within the SCRCA watershed.
 - 10 warm watercourses, 30 cold watercourses and 63 unknown thermal regime watercourses
 - 5 Provincially Significant Wetlands (PSW); McCreedy Woods (SC 22), Bobcat Swamp Wetland Complex (SC 2), Melbourne Marsh (SC 3), Longwoods Woodlot Wetland Complex (SC 6) and Komoka/South Strathroy Creek Wetland (SC 9)
 - 1 evaluated wetland: McPhail Tract

- Depending on the final preferred route the pipeline will cross up to 11 watercourses and one (1) wetland within the UTRCA watershed
 - 6 warm watercourses, 4 cold watercourses and 1 unknown thermal regime watercourses
 - One (1) Provincially Significant Wetland (PSW); Komoka / South Strathroy Creek Wetland

8

Species at Risk Summary Background review



- Aquatic Species at Risk
 - 18 records of aquatic species at risk
 - 7 fish species and 11 mussel species

- Terrestrial Species at Risk
 - 30 species at risk known to occur
 - 13 birds, 8 plants, 5 reptiles and 4 mammals

An assessment of candidate habitat and/or habitat use for SAR is being completed during 2020 field investigations.

Animal Group	Common Name	Scientific Name	SAR or SOCC Listing	
			ESA	SARA
Fish	Black Redhorse	<i>Moxostoma valenciennesi</i>	THR	THR
	Blackstipe Topminnow	<i>Fundulus notatus</i>	SC	SC
	Eastern Sand Darter	<i>Ammocrypta pellucida</i>	END	THR
	Grass Pickerel	<i>Esox americanus vermiculatus</i>	SC	SC
	Northern Madtom	<i>Naturus oligocephalus</i>	END	END
	Northern Sunfish	<i>Lepomis microlophus</i>	SC	SC
	Pugnose Minnow	<i>Opsopoeodus emiliae</i>	THR	THR
	Pugnose Shiner	<i>Notropis anogenus</i>	THR	THR
	River Darter	<i>Percina shumardi</i>	END	END
	Silver Lamprey	<i>Ichthyomyzon unicuspis</i>	-	SC
	Silver Shiner	<i>Notropis phlogenia</i>	THR	THR
	Spotted Gar	<i>Lepisosteus oculatus</i>	END	END
	Spotted Suoker	<i>Moxostoma valenciennesi</i>	SC	SC
	Fawnsfoot	<i>Truncella donaciformis</i>	END	END
Mussel	Kidneyshell	<i>Ptychobranhus fasciolaria</i>	END	END
	Littliput	<i>Toxolasma parvum</i>	THR	END
	Mapleleaf	<i>Quadrula quadrata</i>	SC	SC
	Northern Riffleshell **	<i>Epicoblasma rangiana</i>	END	END
	Rainbow	<i>Villosa iris</i>	SC	SC
	Rayed Bean **	<i>Villosa fabalis</i>	END	END
	Round Hickorynut **	<i>Obovaria olivaria</i>	END	END
	Round Pigtoe **	<i>Pleurobema sinuata</i>	END	END
	Salamander Mussel **	<i>Streblospio ambigua</i>	END	END
	Snuffbox **	<i>Epicoblasma triquetra</i>	END	END
	Threethorn Wartysack	<i>Obliquaria reflexa</i>	THR	THR
	Wavy-rayed Lampmussel	<i>Lampsis fasciata</i>	THR	SC

** Critical Habitat for the species recorded at the watercourse crossing (DFO 2019)

London Lines Replacement Project



We want your feedback – we are currently in the consultation phase

- Opportunity to ask any questions and provide your views on the potential impact the Project may have on your community's rights and interests, so we can address these impacts, as appropriate.
- As part of the planning process, Enbridge Gas has retained Stantec Consulting Ltd. (Stantec) to undertake an Environmental Study of the construction and operation for the proposed natural gas pipeline.
- The Environmental Study will fulfill the requirements of the Ontario Energy Board (OEB). This report is now complete and the link was emailed to your community on July 23, 2020
- Stantec is presently compiling an environmental, socio-economic, and archaeological/cultural heritage inventory of the Environmental Study area.

Attachment 2.1

From: [REDACTED]
Sent: Wednesday, February 26, 2020 3:03 PM
To: [REDACTED]@caldwellfirstnation.ca'; [REDACTED]@caldwellfirstnation.ca>;
[REDACTED]@caldwellfirstnation.ca'; [REDACTED]@caldwellfirstnation.ca>
Cc: [REDACTED]@enbridge.com>
Subject: Enbridge Gas London Lines Project

Good afternoon Chief Duckworth,

Please find attached our notification letter and map for the Enbridge Gas Inc. London Lines Project.

-

We would like to set up a time to come to speak with your environment/consultation committee to discuss the project and provide you with details. Please reach out to [REDACTED] to arrange for a time for discussion.

We look forward to working with you on this project.

Thank you,

[REDACTED]



Enbridge Gas Inc
50 Keil Drive
Chatham, Ontario
N7M 5M1

Chief Mary Duckworth
Caldwell First Nation
14 Orange Street
Leamington, ON
N8H 1P5

February 26, 2020

Re: London Lines Replacement Project

Dear Chief Duckworth,

Enbridge Gas has identified the need to replace an existing set of pipelines which run from Enbridge Gas' Dawn Hub facility in the Township of Dawn-Euphemia, to Komoka in the Municipality of Middlesex Centre. Additionally, a new pipeline will be installed connecting the replacement pipeline to Strathroy in the Municipality of Strathroy-Caradoc. The project also involves upgrades to services and stations along the route.

The existing pipeline is located in both existing road allowances as well as within easements. The replacement pipeline will be located in the same road allowances where possible to ensure existing customers are still able to have natural gas delivered. Where possible, pipeline that is currently in an easement will be moved to existing road allowances.

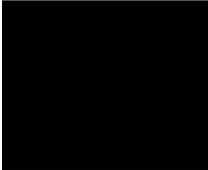
We would like to consult with your community on this proposed project. We are interested in your community's feedback, including any suggestions or proposals on mitigating, avoiding or accommodating any potential impacts to Aboriginal or treaty rights.

Enbridge Gas Inc. has been delegated the procedural aspects for consultation by the Ministry of Energy on behalf of Ontario. Ministry officials are also available should you wish to contact them directly with any questions or concerns. Please contact:

[REDACTED]
Policy Advisor
Indigenous Energy Unit
Ministry of Energy, Northern Development and Mines
[REDACTED]@ontario.ca

We would like to set up a meeting to discuss our project with you and provide you with an opportunity to express any questions or concerns you have. Please feel free to contact me at [REDACTED]@enbridge.com or [REDACTED] so we can set up a time to meet.

Miigwetch,

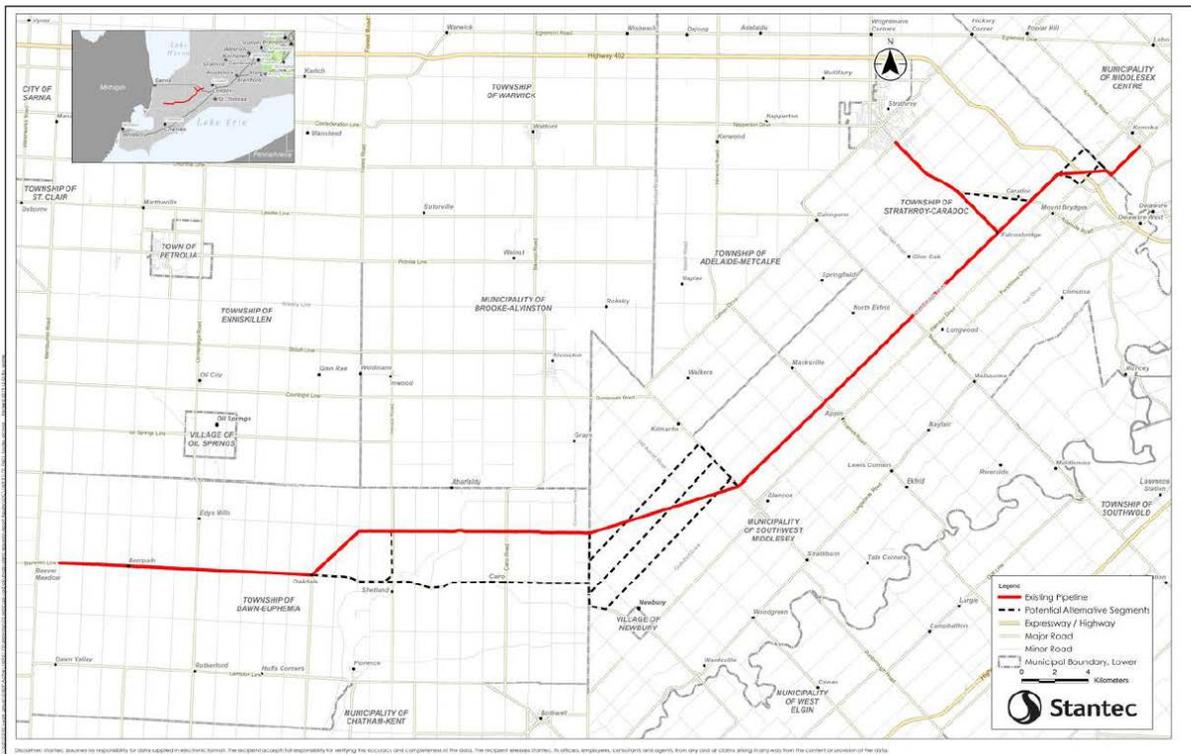


Senior Advisor, Indigenous Affairs
Enbridge Gas Inc

P: [REDACTED]

C: [REDACTED]

Toll Free: [REDACTED]



From: [REDACTED]
To: [REDACTED]@caldwellfirstnation.ca; [REDACTED]@caldwellfirstnation.ca
Cc: [REDACTED]@stantec.com
Subject: FW: Enbridge Gas London Lines Project
Date: Monday, March 9, 2020 2:11:00 PM
Attachments: [London Lines map.pdf](#)

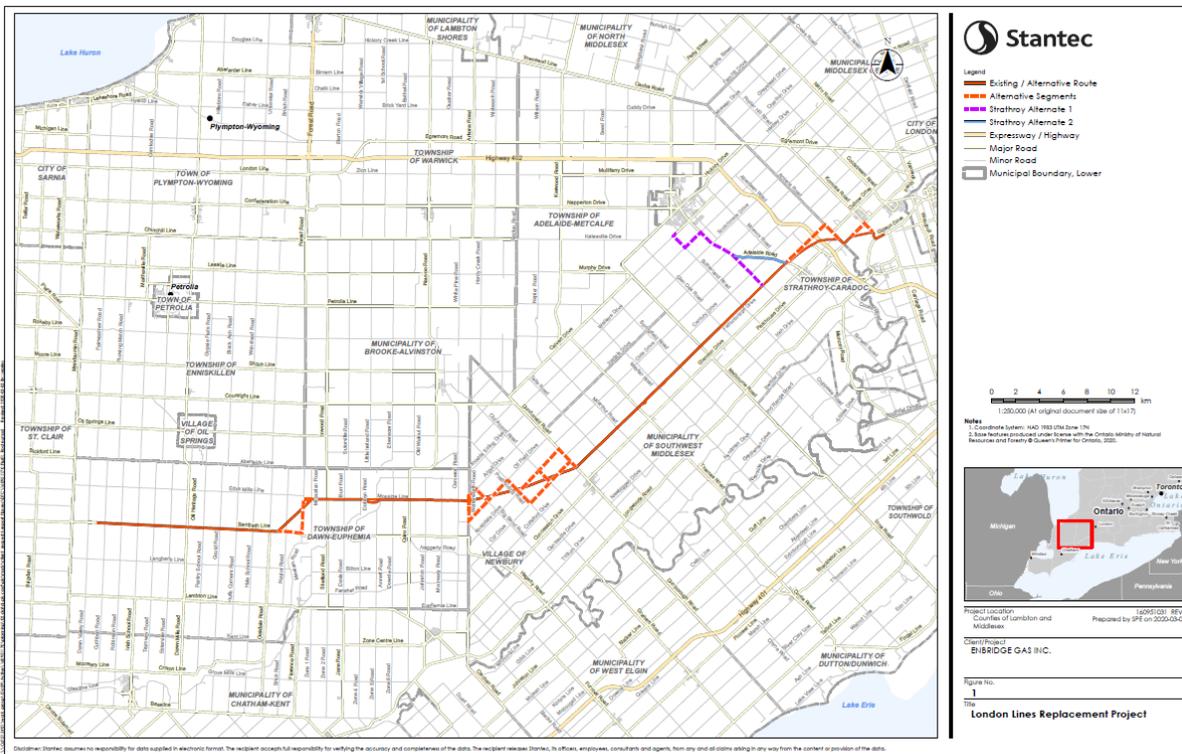
Good afternoon Chief Duckworth,

Further to the email below, please find attached an updated map of the project.

We look forward to working with you on this project.

Thank you,

[REDACTED]



From: [REDACTED]@caldwellfirstnation.ca>
Sent: Tuesday, March 17, 2020 4:55 PM
To: [REDACTED]@enbridge.com>; Mary Duckworth
[REDACTED]@caldwellfirstnation.ca>
Cc: [REDACTED]@enbridge.com>; [REDACTED]@stantec.com; [REDACTED]
[REDACTED]@caldwellfirstnation.ca>; [REDACTED]@caldwellfirstnation.ca>
Subject: [External] RE: Enbridge Gas London Lines Project

EXTERNAL: PLEASE PROCEED WITH CAUTION.

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Good afternoon,

Please be advised that the Chief is on leave until September 9, 2020.

[REDACTED] I will advise if Council wants to meet to discuss the project.

Miigwech (Thank you),

[REDACTED]

Director of Operations
Caldwell First Nation
14 Orange Street | Leamington, ON N8H 1P5
Phone: [REDACTED] | Mobile: [REDACTED]
caldwellfirstnation.ca

From: [REDACTED]
To: [REDACTED]
Cc: [REDACTED]@stantec.com; [REDACTED]
Subject: RE: [External] RE: Enbridge Gas London Lines Project
Date: Wednesday, March 18, 2020 11:27:01 AM

Hello [REDACTED]

It is great to hear from you and thank you for the follow up to our email. I will wait to hear from you regarding councils decision. In the interim please do not hesitate to contact me with any questions or concerns you may have regarding this project.

Miigwech,
[REDACTED]

Attachment 2.3

From: [REDACTED]
To: [REDACTED]@caldwellfirstnation.ca
Cc: [REDACTED]@enbridge.com; [REDACTED]@enbridge.com; [REDACTED]@stantec.com
Subject: Enbridge Gas Inc.: Notice of Commencement and Virtual Open House - London Lines Replacement Project (LLRP)
Date: Wednesday, April 8, 2020 6:51:00 PM
Attachments: [let_160951170_Indigenous_NoC-VOH_MDuckworth_2020-04-08_fnl.pdf](#)

Sent on behalf of [REDACTED] **(Enbridge Gas Inc.)**

Good evening,

Please find attached a Notice of Commencement and Virtual Open House regarding the Enbridge Gas Inc. ("Enbridge") London Lines Replacement Project (LLRP).

Regards,

[REDACTED] B.Sc., EP.
Environmental Consultant, Assessment and Permitting

Direct: [REDACTED]
Mobile: [REDACTED]
[REDACTED]@stantec.com

Stantec
1-70 Southgate Drive
Guelph ON N1G 4P5



Stantec Consulting Ltd.
300W-875 Cochrane Drive Markham, ON L3R 0B8



April 8, 2020

Attention: Chief Mary Duckworth,
Caldwell First Nation
14 Orange Street
Leamington ON N8H 1P5

Dear Chief Duckworth,

Reference: Enbridge Gas – London Lines Replacement Project, Notice of Project Commencement and Virtual Open House

Enbridge Gas is proposing to replace a section of natural gas pipeline in order to improve the integrity of the pipeline network and to increase system flexibility. All current services will be maintained as a result of this project.

The London Lines Replacement Project (LLRP) will include the construction of approximately 75 kilometers (km) of 8-inch, high pressure natural gas pipeline. This will replace the two current pipelines known collectively as the London Lines. The LLRP will also include the construction of 10.5 km of a secondary 8-inch pipeline which will connect the replaced pipeline to the community of Strathroy. The LLRP will start within the Township of Dawn-Euphemia near Oil Heritage Road and Bentpath Lane. The pipeline project will continue through the municipality of Southwest Middlesex and will end at two locations: within the Municipality of Middlesex Centre at Komoka Road and Glendon Drive; and at a proposed new station at Calvert Drive and Sutherland Road in the Municipality of Strathroy-Caradoc. The general location and study area of the proposed pipeline is shown on the attached map.

As part of the planning process, Enbridge Gas has retained Stantec Consulting Ltd. (Stantec) to undertake an Environmental Study of the construction and operation for the proposed natural gas pipeline. The Environmental Study will fulfill the requirements of the Ontario Energy Board's (OEB) "Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 7th Edition (2016)".

An Environmental Report, summarizing the results of the Environmental Study, will accompany Enbridge's application to the OEB as part of their Leave to Construct (LTC) application. The Environmental Report for the proposed project is anticipated to be completed by early summer 2020. The OEB's review and approval is required before construction of the Project can proceed. If approved, construction of the pipeline is anticipated to begin in Spring/Summer 2021.

Caldwell First Nation is invited to provide comments regarding the proposed pipeline. Specifically, Stantec is seeking information about any adverse impacts that the proposed project may have on constitutionally protected Aboriginal or treaty rights and any measures for mitigating those adverse impacts.

Stantec is presently compiling an environmental, socio-economic, and archaeological/cultural heritage inventory of the Environmental Study Area. As an Indigenous community with a potential interest in developments in that area, you are invited to provide or coordinate comments regarding the proposed pipeline.

As part of the Environmental Study, Enbridge is in the process of contacting the following agencies:

- Indigenous and Northern Affairs Canada; and
- Ontario Ministry of Indigenous Relations and Reconciliation.



April 8, 2020
Page 2 of 2



Reference: Enbridge Gas Distribution Inc. – London Lines Replacement Project, Notice of Project Commencement and Information Session

Public consultation with Indigenous communities, landowners, government agencies, current customers serviced by the London Lines, the general public, and other interested persons is an integral component of the planning process. As a result of the social distancing requirements set out by the Government of Canada and the Province of Ontario due to COVID-19, a Virtual Open House will be held in place of an in-person Open House regarding the proposed LLRP. The Virtual Open House will be available beginning on April 20, 2020 at 9:00 am EST until May 1, 2020 at 5:00 pm EST at:

www.solutions.ca/LondonLines

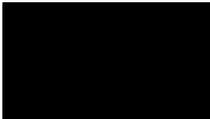
If you are unable to log onto the Virtual Open House between April 20 and May 1, please dial (519) 780-8186, leave a message with your contact information, and we will respond as soon as possible.

There will be a questionnaire available at the end of the presentation and you will have the ability to submit comments and/or questions about the proposed LLRP, including proposed routes, design and the anticipated project schedule during the presentation. In addition, a copy of the open house story boards will be available to download. Input received will be used to inform the selection of the preferred pipeline route, and to develop site specific environmental protection or mitigation measures for the Project.

If you have questions or concerns regarding the Project, please do not hesitate to contact the undersigned.

Regards,

ENBRIDGE GAS INC.

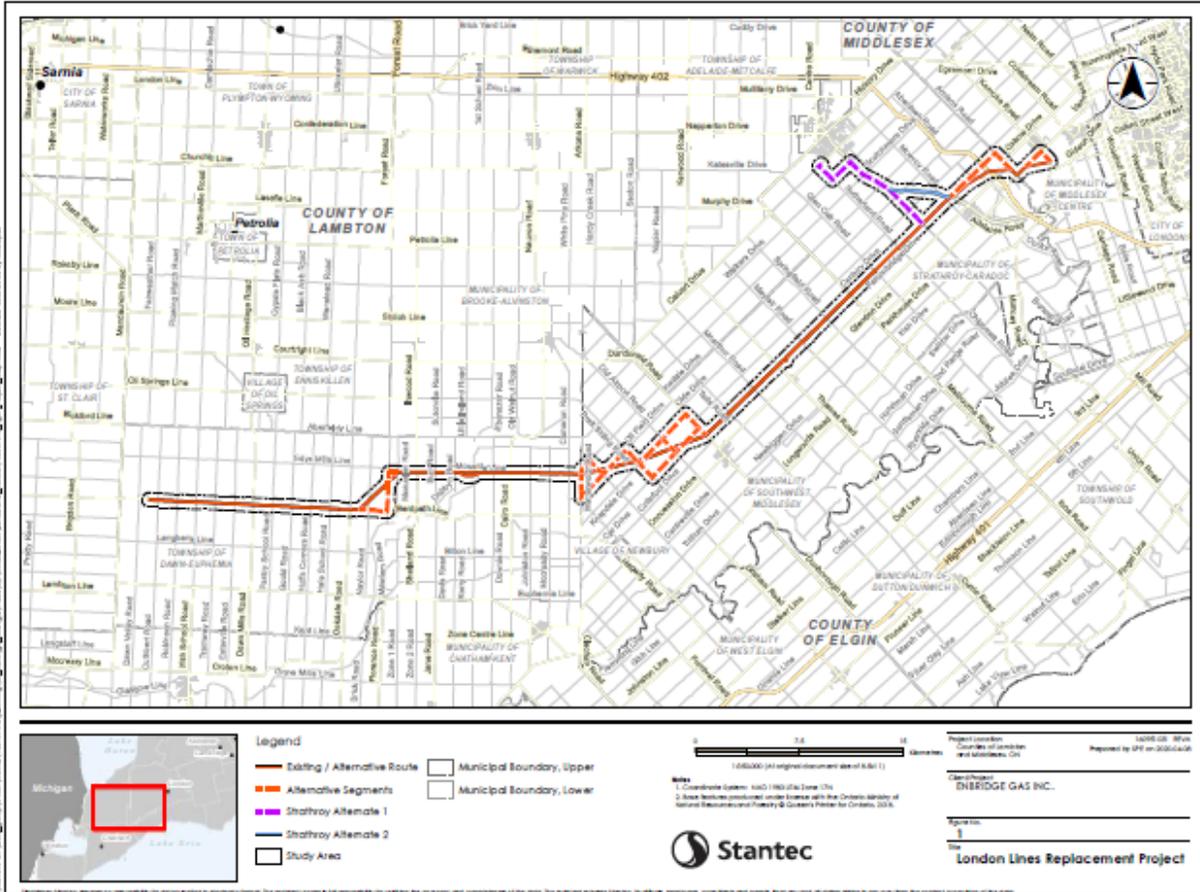


Senior Advisor, Indigenous Affairs
Enbridge Gas Inc.
50 Keil Drive North
Chatham, ON, N7M 5M1

PH:

Cell:

@enbridge.com



Attachment 2.4

From: [REDACTED]
To: [REDACTED] pcaldwell@firstnation.ca
Cc: [REDACTED] [@stantec.com](mailto:[REDACTED]@stantec.com)
Subject: Enbridge Gas London Lines Project: Open House and Alternative Route
Date: Friday, May 15, 2020 9:59:00 AM
Attachments: [let_160951170_Caldwell_Notice-of-Change_20200513_fnl.pdf](#)

Good morning,

We hope this finds you and your family well.

I am following up with you on the Enbridge Gas London Lines Project on two topics.

First, we just wanted to follow up to confirm if you were able to access and view the VOH (Virtual Open House) for the London Lines Project? If you had any comments or would like more follow up please do not hesitate to contact us. We will be in contact with you regarding an opportunity for you to participate in monitoring on site for the Archaeological and Environmental surveys.

Secondly, I have attached a Notice of Project Change on the Enbridge Gas London Lines Project. For this Project, a third and fourth alternate route have been identified and included for consideration ("Strathroy Alternate 3" and "Strathroy Alternate 4") for the secondary pipeline to the community of Strathroy.

Stantec is request that any questions and/or comments regarding the Notice of Project Change or the proposed project be sent to them by May 29, 2020. The contact information for Stantec is also in the attachment.

If you have any questions or concerns about these two items, please feel free to reach out to [REDACTED] or myself and we would be happy to assist.

We hope you enjoy the long weekend and take care.

Many thanks,

[REDACTED]



Stantec Consulting Ltd.
300W-675 Cochrane Drive, Markham ON L3R 0B8



May 13, 2020

Caldwell First Nation
14 Orange Street
Leamington, ON N8H 1P5

Dear Sir/Madam,

Reference: Enbridge Gas Inc. – London Lines Replacement Project: Notice of Project Change

Enbridge Gas Inc. (Enbridge) is proposing to replace a section of natural gas pipeline known as the London Lines in order to improve the integrity of the pipeline network and to increase system flexibility, as indicated in Enbridge's notification on April 8, 2020. The London Lines Replacement Project (LLRP) will include the construction of approximately 75 kilometers (km) of 8-inch, high pressure natural gas pipeline. This will replace the two current pipelines known collectively as the London Lines. The LLRP will also include the construction of approximately 10.5 km of a secondary 8-inch pipeline which will connect the replaced pipeline to the community of Strathroy.

You are receiving this letter because a third and fourth alternate route have been identified and included for consideration ("Strathroy Alternate 3" and "Strathroy Alternate 4") for the secondary pipeline to the community of Strathroy. For more details, please refer to the attached map.

As part of the planning process, Enbridge has retained Stantec Consulting Ltd. (Stantec) to undertake an Environmental Study of the construction and operation for the proposed natural gas pipeline. The Environmental Study will fulfill the requirements of the Ontario Energy Board's (OEB) "Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 7th Edition (2016)".

An Environmental Report, summarizing the results of the Environmental Study, will accompany Enbridge's application to the OEB as part of their Leave to Construct (LTC) application. The Environmental Report for the proposed project is anticipated to be completed by summer 2020. The OEB's review and approval is required before construction of the Project can proceed. If approved, construction of the pipeline is anticipated to begin in Spring/Summer 2021.

We request that any questions and/or comments regarding the Notice of Project Change or the proposed project be sent to the following contacts by May 29, 2020.

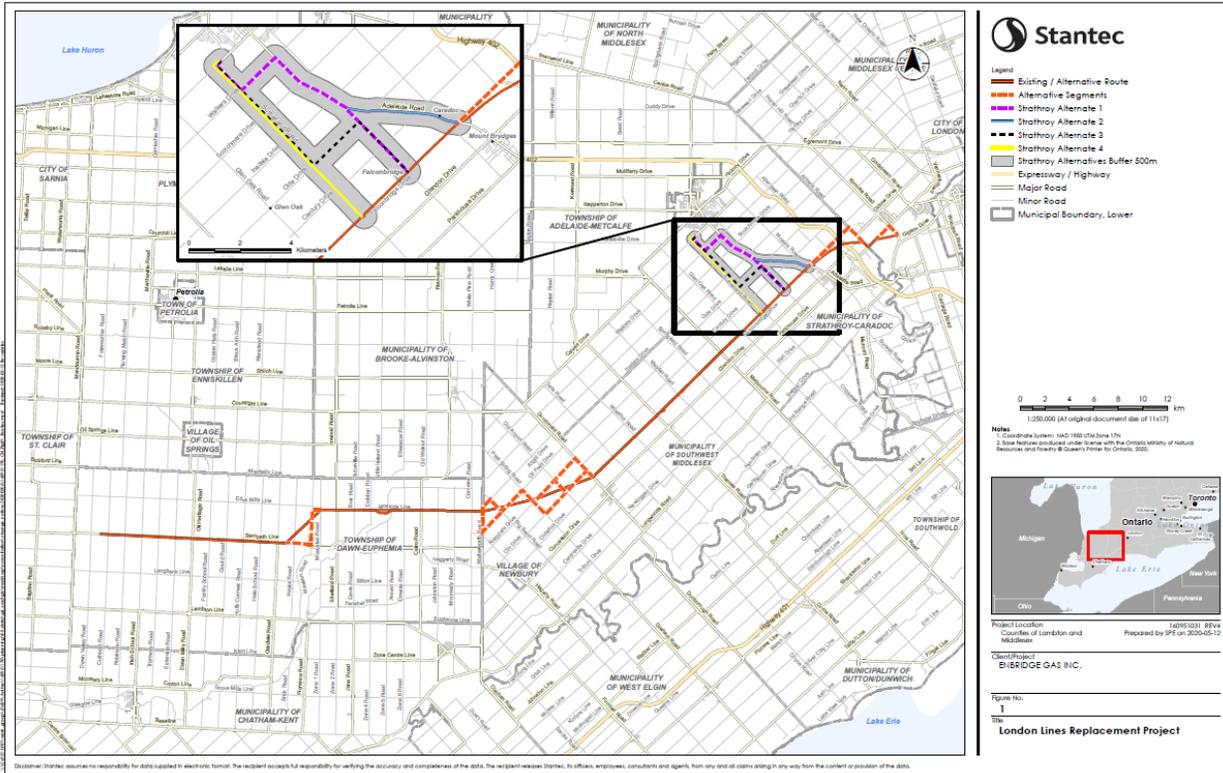
Yours truly,

Stantec Consulting Ltd.



Senior Associate, Senior Project Manager

Phone: [REDACTED]
[REDACTED]@stantec.com



From: [REDACTED]
To: [REDACTED]
Cc: [REDACTED]@stantec.com
Subject: [External] RE: Enbridge Gas London Lines Project: Open House and Alternative Route
Date: Friday, May 15, 2020 1:11:37 PM

EXTERNAL: PLEASE PROCEED WITH CAUTION.
 This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Confirming receipt of email.

Miigwech (Thank you),

[REDACTED]

Director of Operations
 Caldwell First Nation
 14 Orange Street | Leamington, ON N8H 1P5
 Phone: [REDACTED] Mobile: [REDACTED]
caldwellfirstnation.ca

Attachment 2.5

From: [REDACTED]
To: [REDACTED] [@caldwellfirststation.ca](mailto:[REDACTED]@caldwellfirststation.ca)
Cc: [REDACTED]
Bcc: [REDACTED] [@stantec.com](mailto:[REDACTED]@stantec.com)
Subject: Virtual Meeting: Enbridge Gas London Lines Project
Date: Monday, July 20, 2020 10:04:00 AM
Attachments: [Caldwell london lines notification.pdf](#)
[LLRP Preferred Route pq965.pdf](#)

Good morning [REDACTED]

Hope this finds you well and enjoying the summer weather.

We wanted to touch base on the London Lines Replacement Project that Enbridge is currently in the process of planning. Enbridge has identified the need to replace an existing set of pipelines which run from

Enbridge Gas' Dawn Hub facility in the Township of Dawn-Euphemia, to Komoka in the Municipality of Middlesex Centre. Additionally, a new pipeline will be installed connecting the replacement pipeline to Strathroy in the Municipality of Strathroy-Caradoc. The project also involves upgrades to services and stations along the route. Please find attached our initial notification letter as well as an updated map of the preferred route.

We would like to set up a virtual meeting to provide you with an opportunity to ask any questions and provide your views on the potential impact the Project may have on your community's rights and interests, so we can address these impacts, as appropriate.

Also, as you likely already know [REDACTED] has retired from Enbridge. [REDACTED] will be replacing [REDACTED] in the role of Indigenous Advisor. [REDACTED] contact information is [REDACTED] [@enbridge.com](mailto:[REDACTED]@enbridge.com) and his cell is [REDACTED]. Please feel free to reach out to [REDACTED] or myself with any questions or concerns going forward.

Please let us know how best to proceed in setting up a virtual meeting. We look forward to the opportunity to speak with you about the project.

Many thanks,

[REDACTED]

From: [REDACTED]
To: [REDACTED] [@caldwellfirstnation.ca](mailto:[REDACTED]@caldwellfirstnation.ca)
Cc: [REDACTED] [@stantec.com](mailto:[REDACTED]@stantec.com)
Subject: London Lines Replacement Project: Environmental Report
Date: Thursday, July 23, 2020 10:09:00 AM

Good morning,

As you are aware, Enbridge Gas Inc. (Enbridge Gas) is seeking to construct a natural gas pipeline in order to replace a section of an existing natural gas pipeline in the Counties of Lambton and Middlesex . The Ontario Energy Board's *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7th Edition 2016* (Guidelines) recommend that a project proponent provide a copy of the environmental report (ER) for a project to the Ontario Pipeline Coordinating Committee for review and comment. In the link below please find a copy of the ER for the London Lines Replacement Project (the Project). Pursuant to the Guidelines please provide any comments on the ER for the Project by no later than Thursday September 3, 2020. You can access the ER at the link below and navigating to the Projects Tab and London Lines Replacement drop down.

<https://www.enbridgegas.com/About-Us>

Comments should be directed to:

[REDACTED]
Advisor, Environment
Enbridge Gas Inc.
101 Honda Boulevard
Markham, Ontario
L6C 0M6
Cell: [REDACTED]
Email: [REDACTED] [@stantec.com](mailto:[REDACTED]@stantec.com)

Many thanks and take care,
[REDACTED]

Attachment 2.7

From: [REDACTED]@caldwellfirstnation.ca>
Sent: Wednesday, July 29, 2020 6:47 PM
To: [REDACTED]@enbridge.com>
Cc: [REDACTED]@enbridge.com>; [REDACTED]@caldwellfirstnation.ca>; [REDACTED]@caldwellfirstnation.ca>
Subject: [External] RE: Virtual Meeting: Enbridge Gas London Lines Project

EXTERNAL: PLEASE PROCEED WITH CAUTION.

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Hi [REDACTED],

I have some availability next week if that works?

Miigwech (Thank you),

[REDACTED]

Director of Operations
Caldwell First Nation
14 Orange Street | Leamington, ON N8H 1P5
Phone: [REDACTED] | [REDACTED]
caldwellfirstnation.ca

Sent: Thursday, July 30, 2020 1:16 PM
To: [REDACTED]@caldwellfirstnation.ca>
Cc: [REDACTED]@enbridge.com>; [REDACTED]@caldwellfirstnation.ca>; [REDACTED]@caldwellfirstnation.ca>
Subject: RE: [External] RE: Virtual Meeting: Enbridge Gas London Lines Project

Hi [REDACTED],

Thanks for getting back to me.

Unfortunately the team that I would need to present on the Project are not available next week.

Do you have any additional availability for a call to discuss this project?

Thank you,
[REDACTED]

From: [REDACTED]@caldwellfirstnation.ca>
Sent: Thursday, July 30, 2020 8:44 PM
To: [REDACTED]@enbridge.com>
Cc: [REDACTED]@enbridge.com>; [REDACTED]
[REDACTED]@caldwellfirstnation.ca>; [REDACTED]@caldwellfirstnation.ca>
Subject: RE: [External] RE: Virtual Meeting: Enbridge Gas London Lines Project

EXTERNAL: PLEASE PROCEED WITH CAUTION.

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If you give me a few times, [REDACTED] Executive Assistant can check confirm the time.

Miigwech (Thank you),

[REDACTED]

Director of Operations
Caldwell First Nation
14 Orange Street | Leamington, ON N8H 1P5
Phone: [REDACTED] | Mobile: [REDACTED]
caldwellfirstnation.ca

Attachment 2.8

From: [REDACTED]
To: [REDACTED]
Cc: [REDACTED]
Bcc: [REDACTED]@stantec.com
Subject: RE: [External] RE: Virtual Meeting: Enbridge Gas London Lines Project
Date: Monday, August 24, 2020 11:50:00 AM

Hi [REDACTED],

My apologies for the delay. Finding time in peoples' calendars can be a bit of a challenge.

We can make most times work and would accommodate your schedule (as much as we can).

In terms of dates I can throw out there right now, it looks like September 2 is ok for most of the day as well September 15 and 18.

Hopefully something within this time frame works for you. Otherwise, please feel free to provide some times and we can ensure that we are able to attend one of them.

Thanks so much,
[REDACTED]

From: [REDACTED]@caldwellfirstnation.ca
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: [External] RE: Virtual Meeting: Enbridge Gas London Lines Project
Date: Wednesday, August 26, 2020 8:36:42 AM

EXTERNAL: PLEASE PROCEED WITH CAUTION.

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Hello,

September 18 after 12pm works for [REDACTED]. Please let me know what time works best and I will send a Zoom link.

Cheers,
[REDACTED]
[REDACTED]

Junior Executive Assistant

Attachment 3.1

From: [REDACTED]
To: [REDACTED]@kettlepoint.org"; [REDACTED]@kettlepoint.org"
Cc: [REDACTED]
Subject: Enbridge Gas London Lines Project
Date: Wednesday, February 26, 2020 2:58:00 PM
Attachments: [London Lines Project Map Preliminary.pdf](#)
[Kettle and Stony Point FN london lines notification.pdf](#)

Good afternoon Chief Henry,

Please find attached our notification letter and map for the Enbridge Gas Inc. London Lines Project.

-

We would like to set up a time to come to speak with your environment/consultation committee to discuss the project and provide you with details. Please reach out to [REDACTED] to arrange for a time for discussion.

We look forward to working with you on this project.

Thank you,

[REDACTED]



Enbridge Gas Inc
50 Keil Drive
Chatham, Ontario
N7M 5M1

Chief Jason Henry
Chippewas of Kettle and Stony Point
6247 Indian Lane
Lambton Shores, ON
N0N 1J2

February 26, 2020

Re: London Lines Replacement Project

Dear Chief Henry,

Enbridge Gas has identified the need to replace an existing set of pipelines which run from Enbridge Gas' Dawn Hub facility in the Township of Dawn-Euphemia, to Komoka in the Municipality of Middlesex Centre. Additionally, a new pipeline will be installed connecting the replacement pipeline to Strathroy in the Municipality of Strathroy-Caradoc. The project also involves upgrades to services and stations along the route.

The existing pipeline is located in both existing road allowances as well as within easements. The replacement pipeline will be located in the same road allowances where possible to ensure existing customers are still able to have natural gas delivered. Where possible, pipeline that is currently in an easement will be moved to existing road allowances.

We would like to consult with your community on this proposed project. We are interested in your community's feedback, including any suggestions or proposals on mitigating, avoiding or accommodating any potential impacts to Aboriginal or treaty rights.

Enbridge Gas Inc. has been delegated the procedural aspects for consultation by the Ministry of Energy on behalf of Ontario. Ministry officials are also available should you wish to contact them directly with any questions or concerns. Please contact:

[REDACTED]

Policy Advisor
Indigenous Energy Unit
Ministry of Energy, Northern Development and Mines

[REDACTED]

@ontario.ca

We would like to set up a meeting to discuss our project with you and provide you with an opportunity to express any questions or concerns you have. Please feel free to contact me at [REDACTED]@enbridge.com or [REDACTED] so we can set up a time to meet.

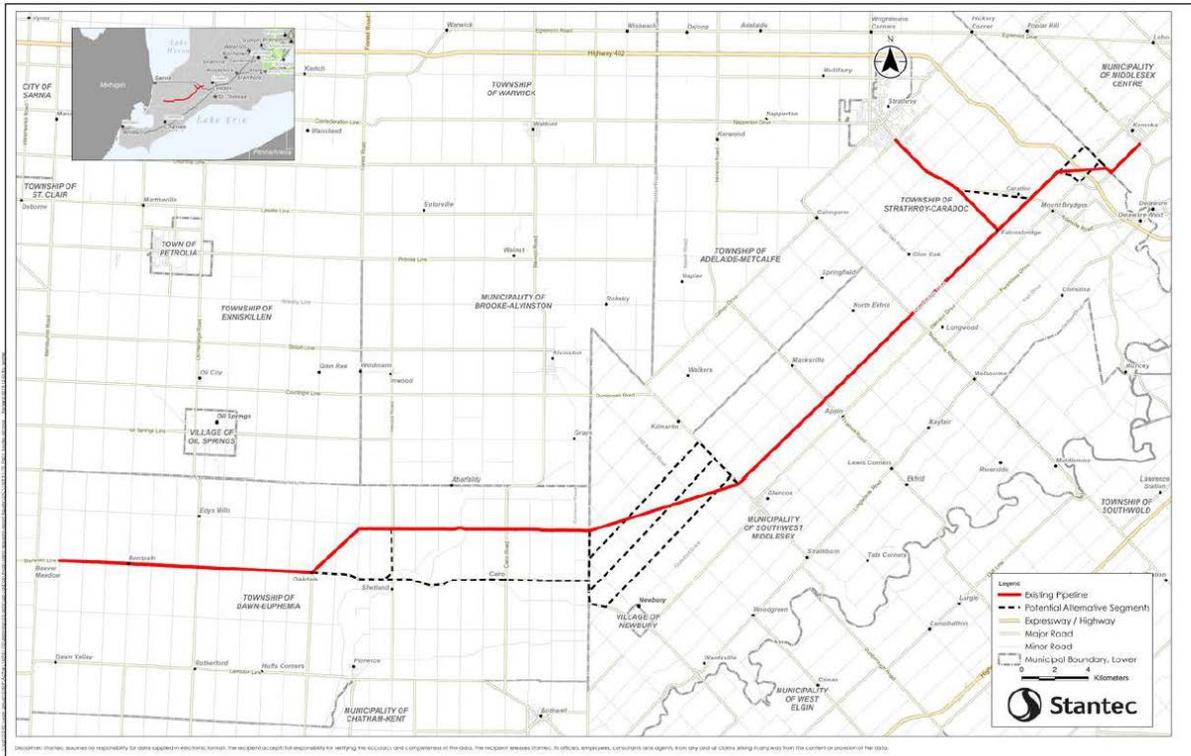
Miigwetch,



Senior Advisor, Indigenous Affairs
Enbridge Gas Inc

P: [REDACTED]
C: [REDACTED]

Toll Free: [REDACTED]



From: [REDACTED]
 To: [REDACTED]@kettlepoint.org; [REDACTED]@kettlepoint.org
 Cc: [REDACTED]@stantec.com
 Subject: FW: Enbridge Gas London Lines Project
 Date: Monday, March 9, 2020 2:09:00 PM
 Attachments: London Lines map.pdf

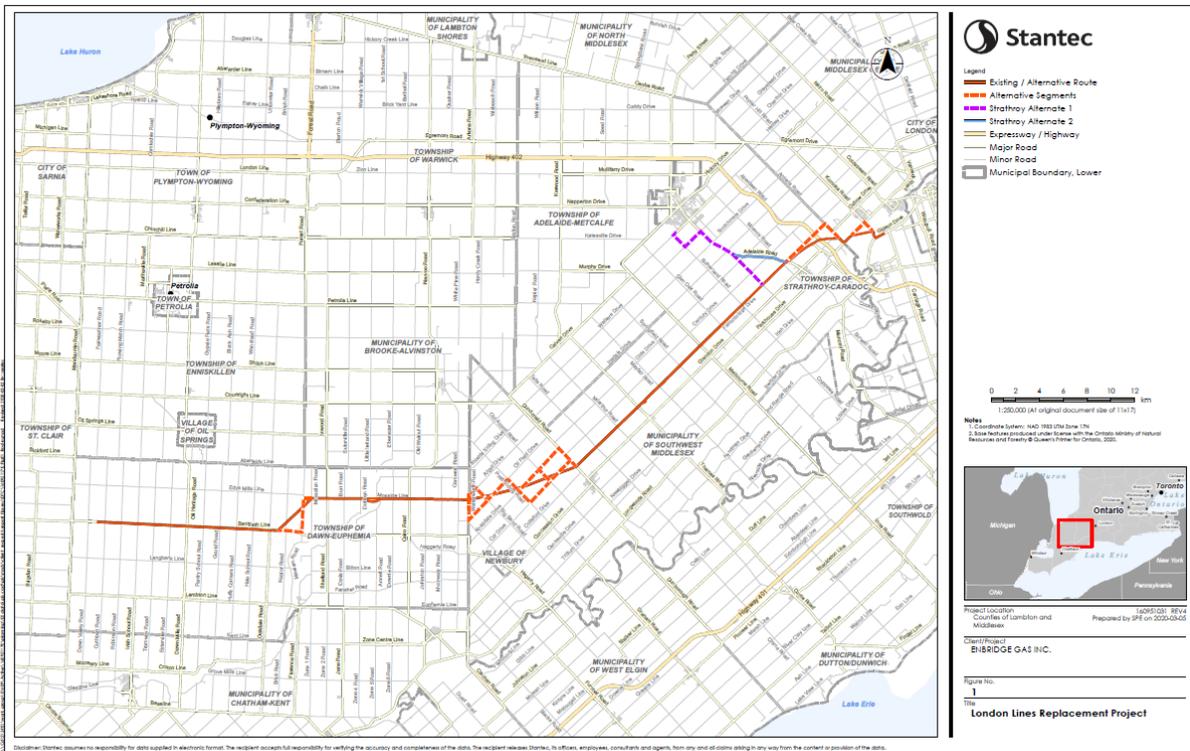
Good afternoon,

Further to the email below, please find attached an updated map of the route for the Project.

We look forward to working with you on this project.

Thank you,

[REDACTED]



Attachment 3.3

From: [REDACTED]
To: [REDACTED]@kettlepoint.org
Cc: [REDACTED]@enbridge.com; [REDACTED]@enbridge.com; [REDACTED]@stantec.com
Subject: Enbridge Gas Inc.: Notice of Commencement and Virtual Open House - London Lines Replacement Project (LLRP)
Date: Wednesday, April 8, 2020 6:50:00 PM
Attachments: [let_160951170_Indigenous_NoC-VOH_JHenry_2020-04-08_fnl.pdf](#)

Sent on behalf of [REDACTED] (Enbridge Gas Inc.)

Good evening,

Please find attached a Notice of Commencement and Virtual Open House regarding the Enbridge Gas Inc. ("Enbridge") London Lines Replacement Project (LLRP).

Regards,

[REDACTED]
Environmental Consultant, Assessment and Permitting

Direct: [REDACTED]
Mobile: [REDACTED]
[REDACTED]@stantec.com

Stantec
1-70 Southgate Drive
Guelph ON N1G 4P5



Stantec Consulting Ltd.
300W-875 Cochrane Drive Markham, ON L3R 0B8



April 8, 2020

Attention: Chief Jason Henry,
Chippewas of Kettle and Stony Point
6247 Indian Lane
Lambton Shores ON N0N 1J1

Dear Chief Henry,

Reference: Enbridge Gas – London Lines Replacement Project, Notice of Project Commencement and Virtual Open House

Enbridge Gas is proposing to replace a section of natural gas pipeline in order to improve the integrity of the pipeline network and to increase system flexibility. All current services will be maintained as a result of this project.

The London Lines Replacement Project (LLRP) will include the construction of approximately 75 kilometers (km) of 8-inch, high pressure natural gas pipeline. This will replace the two current pipelines known collectively as the London Lines. The LLRP will also include the construction of 10.5 km of a secondary 8-inch pipeline which will connect the replaced pipeline to the community of Strathroy. The LLRP will start within the Township of Dawn-Euphemia near Oil Heritage Road and Bentpath Lane. The pipeline project will continue through the municipality of Southwest Middlesex and will end at two locations: within the Municipality of Middlesex Centre at Komoka Road and Glendon Drive; and at a proposed new station at Calvert Drive and Sutherland Road in the Municipality of Strathroy-Caradoc. The general location and study area of the proposed pipeline is shown on the attached map.

As part of the planning process, Enbridge Gas has retained Stantec Consulting Ltd. (Stantec) to undertake an Environmental Study of the construction and operation for the proposed natural gas pipeline. The Environmental Study will fulfill the requirements of the Ontario Energy Board's (OEB) "Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 7th Edition (2016)".

An Environmental Report, summarizing the results of the Environmental Study, will accompany Enbridge's application to the OEB as part of their Leave to Construct (LTC) application. The Environmental Report for the proposed project is anticipated to be completed by early summer 2020. The OEB's review and approval is required before construction of the Project can proceed. If approved, construction of the pipeline is anticipated to begin in Spring/Summer 2021.

Chippewas of Kettle and Stony Point is invited to provide comments regarding the proposed pipeline. Specifically, Stantec is seeking information about any adverse impacts that the proposed project may have on constitutionally protected Aboriginal or treaty rights and any measures for mitigating those adverse impacts.

Stantec is presently compiling an environmental, socio-economic, and archaeological/cultural heritage inventory of the Environmental Study Area. As an Indigenous community with a potential interest in developments in that area, you are invited to provide or coordinate comments regarding the proposed pipeline.

As part of the Environmental Study, Enbridge is in the process of contacting the following agencies:

- Indigenous and Northern Affairs Canada; and
- Ontario Ministry of Indigenous Relations and Reconciliation.



April 8, 2020
Page 2 of 2



Reference: Enbridge Gas Distribution Inc. – London Lines Replacement Project, Notice of Project Commencement and Information Session

Public consultation with Indigenous communities, landowners, government agencies, current customers serviced by the London Lines, the general public, and other interested persons is an integral component of the planning process. As a result of the social distancing requirements set out by the Government of Canada and the Province of Ontario due to COVID-19, a Virtual Open House will be held in place of an in-person Open House regarding the proposed LLRP. The Virtual Open House will be available beginning on April 20, 2020 at 9:00 am EST until May 1, 2020 at 5:00 pm EST at:

www.solutions.ca/LondonLines

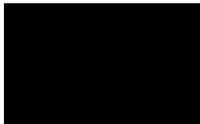
If you are unable to log onto the Virtual Open House between April 20 and May 1, please dial (519) 780-8186, leave a message with your contact information, and we will respond as soon as possible.

There will be a questionnaire available at the end of the presentation and you will have the ability to submit comments and/or questions about the proposed LLRP, including proposed routes, design and the anticipated project schedule during the presentation. In addition, a copy of the open house story boards will be available to download. Input received will be used to inform the selection of the preferred pipeline route, and to develop site specific environmental protection or mitigation measures for the Project.

If you have questions or concerns regarding the Project, please do not hesitate to contact the undersigned.

Regards,

ENBRIDGE GAS INC.



Senior Advisor, Indigenous Affairs

Enbridge Gas Inc.

50 Keil Drive North

Chatham, ON, N7M 5M1

PH: [REDACTED]

Cell [REDACTED]

[REDACTED]@enbridge.com

Attachment: Figure 1: London Lines Replacement Project

Attachment 3.4

From: [REDACTED]
To: [REDACTED]@kettlepoint.org
Cc: [REDACTED]@stantec.com
Subject: Enbridge Gas London Lines Project: Open House and Alternative Route
Date: Friday, May 15, 2020 10:06:00 AM
Attachments: [let_160951170_Kettle-and-Stony_Notice-of-Change_20200513_fnl.pdf](#)

Good morning,

We hope this finds you and your family well.

I am following up with you on the Enbridge Gas London Lines Project on two topics.

First, we just wanted to follow up to confirm if you were able to access and view the VOH (Virtual Open House) for the London Lines Project? If you had any comments or would like more follow up please do not hesitate to contact us. We will be in contact with you regarding an opportunity for you to participate in monitoring on site for the Archaeological and Environmental surveys.

Secondly, I have attached a Notice of Project Change on the Enbridge Gas London Lines Project. For this Project, a third and fourth alternate route have been identified and included for consideration ("Strathroy Alternate 3" and "Strathroy Alternate 4") for the secondary pipeline to the community of Strathroy.

Stantec is request that any questions and/or comments regarding the Notice of Project Change or the proposed project be sent to them by May 29, 2020. The contact information for Stantec is also in the attachment.

If you have any questions or concerns about these two items, please feel free to reach out to [REDACTED] or myself and we would be happy to assist.

We hope you enjoy the long weekend. Take care.

Many thanks,
[REDACTED]



Stantec Consulting Ltd.
300W-675 Cochrane Drive, Markham ON L3R 0B8



May 13, 2020

Chippewas of Kettle and Stony Point First Nation
6247 Indian Lane
Lambton Shores, ON N0N 1J1

Dear Sir/Madam,

Reference: Enbridge Gas Inc. – London Lines Replacement Project: Notice of Project Change

Enbridge Gas Inc. (Enbridge) is proposing to replace a section of natural gas pipeline known as the London Lines in order to improve the integrity of the pipeline network and to increase system flexibility, as indicated in Enbridge's notification on April 8, 2020. The London Lines Replacement Project (LLRP) will include the construction of approximately 75 kilometers (km) of 8-inch, high pressure natural gas pipeline. This will replace the two current pipelines known collectively as the London Lines. The LLRP will also include the construction of approximately 10.5 km of a secondary 8-inch pipeline which will connect the replaced pipeline to the community of Strathroy.

You are receiving this letter because a third and fourth alternate route have been identified and included for consideration ("Strathroy Alternate 3" and "Strathroy Alternate 4") for the secondary pipeline to the community of Strathroy. For more details, please refer to the attached map.

As part of the planning process, Enbridge has retained Stantec Consulting Ltd. (Stantec) to undertake an Environmental Study of the construction and operation for the proposed natural gas pipeline. The Environmental Study will fulfill the requirements of the Ontario Energy Board's (OEB) "Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 7th Edition (2016)".

An Environmental Report, summarizing the results of the Environmental Study, will accompany Enbridge's application to the OEB as part of their Leave to Construct (LTC) application. The Environmental Report for the proposed project is anticipated to be completed by summer 2020. The OEB's review and approval is required before construction of the Project can proceed. If approved, construction of the pipeline is anticipated to begin in Spring/Summer 2021.

We request that any questions and/or comments regarding the Notice of Project Change or the proposed project be sent to the following contacts by May 29, 2020.

Yours truly,

Stantec Consulting Ltd.



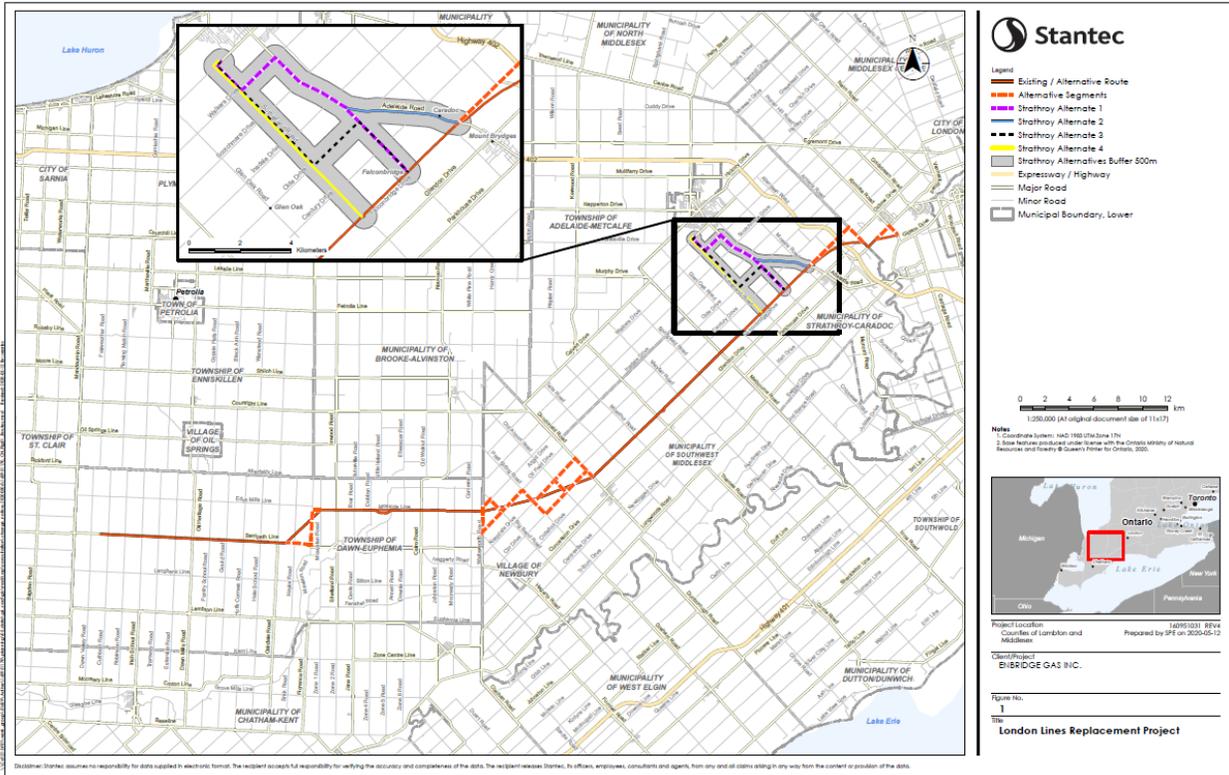
Senior Associate, Senior Project Manager

Phone:

[Redacted]@stantec.com

Attachment: Figure 1: London Lines Replacement Project

c. [Redacted] Environmental Advisor, Enbridge Gas Inc.



Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient waives Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.

From: [REDACTED]
To: [REDACTED]@kettlepoint.org; [REDACTED]@kettlepoint.org
Cc: [REDACTED]
Bcc: [REDACTED]@stantec.com
Subject: Virtual Meeting: Enbridge Gas London Lines Replacement Project
Date: Monday, July 20, 2020 10:31:00 AM
Attachments: Kettle and Stonv Point FN london lines notification.pdf
LLRP Preferred Route pq965.pdf

Good morning Chief Henry and [REDACTED]

Hope this finds you well and enjoying the summer weather.

We wanted to touch base on the London Lines Replacement Project that Enbridge is currently in the process of planning. Enbridge has identified the need to replace an existing set of pipelines which run from

Enbridge Gas' Dawn Hub facility in the Township of Dawn-Euphemia, to Komoka in the Municipality of Middlesex Centre. Additionally, a new pipeline will be installed connecting the replacement pipeline to Strathroy in the Municipality of Strathroy-Caradoc. The project also involves upgrades to services and stations along the route. Please find attached our initial notification letter as well as an updated map of the preferred route.

We would like to set up a virtual meeting to provide you with an opportunity to ask any questions and provide your views on the potential impact the Project may have on your community's rights and interests, so we can address these impacts, as appropriate.

Also, as you likely already know, [REDACTED] has retired from Enbridge. [REDACTED] will be replacing [REDACTED] in the role of Indigenous Advisor. [REDACTED] contact information is [REDACTED]@enbridge.com and his cell is [REDACTED]. Please feel free to reach out to [REDACTED] or myself with any questions or concerns going forward.

Please let us know how best to proceed in setting up a virtual meeting. We look forward to the opportunity to speak with you about the project.

Many thanks,

[REDACTED]

Attachment 3.6

From: [REDACTED]
To: [REDACTED]@kettlepoint.org [REDACTED]@kettlepoint.org
Cc: [REDACTED]@stantec.com
Subject: London Lines Replacement Project: Environmental Report
Date: Thursday, July 23, 2020 10:11:00 AM

Good morning,

As you are aware, Enbridge Gas Inc. (Enbridge Gas) is seeking to construct a natural gas pipeline in order to replace a section of an existing natural gas pipeline in the Counties of Lambton and Middlesex . The Ontario Energy Board's *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7th Edition 2016* (Guidelines) recommend that a project proponent provide a copy of the environmental report (ER) for a project to the Ontario Pipeline Coordinating Committee for review and comment. In the link below please find a copy of the ER for the London Lines Replacement Project (the Project). Pursuant to the Guidelines please provide any comments on the ER for the Project by no later than Thursday September 3, 2020. You can access the ER at the link below and navigating to the Projects Tab and London Lines Replacement drop down.

<https://www.enbridgegas.com/About-Us>

Comments should be directed to:

[REDACTED]
Advisor, Environment
Enbridge Gas Inc.
101 Honda Boulevard
Markham, Ontario
L6C 0M6
Cell: [REDACTED]
Email: [REDACTED]@stantec.com

Many thanks and take care,

[REDACTED]

Attachment 3.7

From: [REDACTED]
To: [REDACTED] [@kettlepoint.org](mailto:[REDACTED]@kettlepoint.org)
Cc: [REDACTED] [@stantec.com](mailto:[REDACTED]@stantec.com)
Subject: Virtual Meeting: Enbridge Gas London Lines Reinforcement Project
Date: Monday, August 24, 2020 2:21:00 PM

Good afternoon [REDACTED]

I hope that you, your family and the community is doing well despite the COVID situation we find ourselves in. What a crazy couple of months it has been and continues to be.

Would you and the consultation committee be meeting virtually so we could have a call to discuss the London Lines Project? I would have the Project Manager and Environmental Planner on the call as well as [REDACTED] to discuss your community's feedback, including any suggestions or proposals on mitigating, avoiding or accommodating any potential impacts.

Again, I hope this finds you well and we look forward to speaking with you.

Thanks,
[REDACTED]

Attachment 4.1

From: [REDACTED]
Sent: Wednesday, February 26, 2020 2:58 PM
To: [REDACTED]@cottfn.com; [REDACTED]@cottfn.com; [REDACTED]@cottfn.com; [REDACTED]@cottfn.com;
[REDACTED]@cottfn.com [REDACTED]@cottfn.com>
Cc: [REDACTED]@enbridge.com>
Subject: Enbridge Gas London Lines Project

Good afternoon Chief French,

Please find attached our notification letter and map for the Enbridge Gas Inc. London Lines Project.

-

We would like to set up a time to come to speak with your environment/consultation committee to discuss the project and provide you with details. Please reach out to [REDACTED] to arrange for a time for discussion.

We look forward to working with you on this project.

Thank you,

[REDACTED]



Enbridge Gas Inc
50 Keil Drive
Chatham, Ontario
N7M 5M1

Chief Jacqueline French
Chippewas of the Thames First Nation
320 Chippewa Road
Muncey, ON
N0L 1Y0

February 26, 2020

Re: London Lines Replacement Project

Dear Chief French,

Enbridge Gas has identified the need to replace an existing set of pipelines which run from Enbridge Gas' Dawn Hub facility in the Township of Dawn-Euphemia, to Komoka in the Municipality of Middlesex Centre. Additionally, a new pipeline will be installed connecting the replacement pipeline to Strathroy in the Municipality of Strathroy-Caradoc. The project also involves upgrades to services and stations along the route.

The existing pipeline is located in both existing road allowances as well as within easements. The replacement pipeline will be located in the same road allowances where possible to ensure existing customers are still able to have natural gas delivered. Where possible, pipeline that is currently in an easement will be moved to existing road allowances.

We would like to consult with your community on this proposed project. We are interested in your community's feedback, including any suggestions or proposals on mitigating, avoiding or accommodating any potential impacts to Aboriginal or treaty rights.

Enbridge Gas Inc. has been delegated the procedural aspects for consultation by the Ministry of Energy on behalf of Ontario. Ministry officials are also available should you wish to contact them directly with any questions or concerns. Please contact:


Policy Advisor
Indigenous Energy Unit
Ministry of Energy, Northern Development and Mines



We would like to set up a meeting to discuss our project with you and provide you with an opportunity to express any questions or concerns you have. Please feel free to contact me at [REDACTED]@enbridge.com or [REDACTED] so we can set up a time to meet.

Miigwetch,

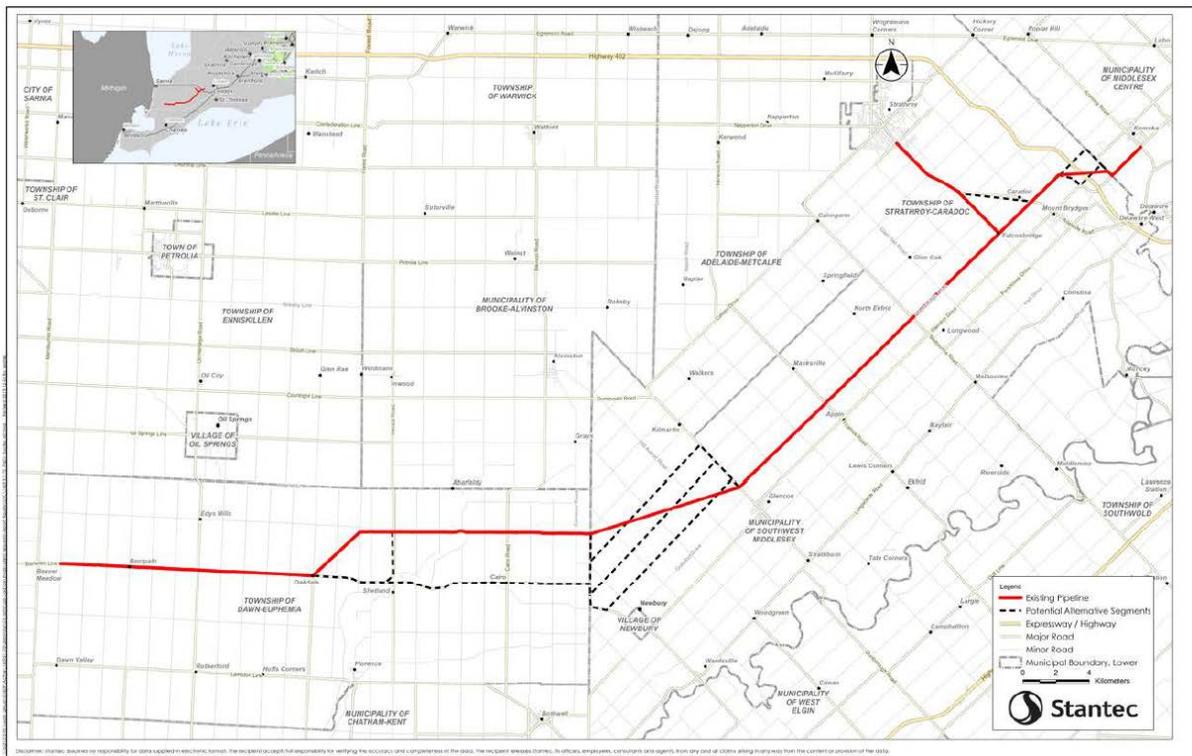
[REDACTED]
Senior Advisor, Indigenous Affairs

Enbridge Gas Inc

P: [REDACTED]

C: [REDACTED]

Toll Free: [REDACTED]



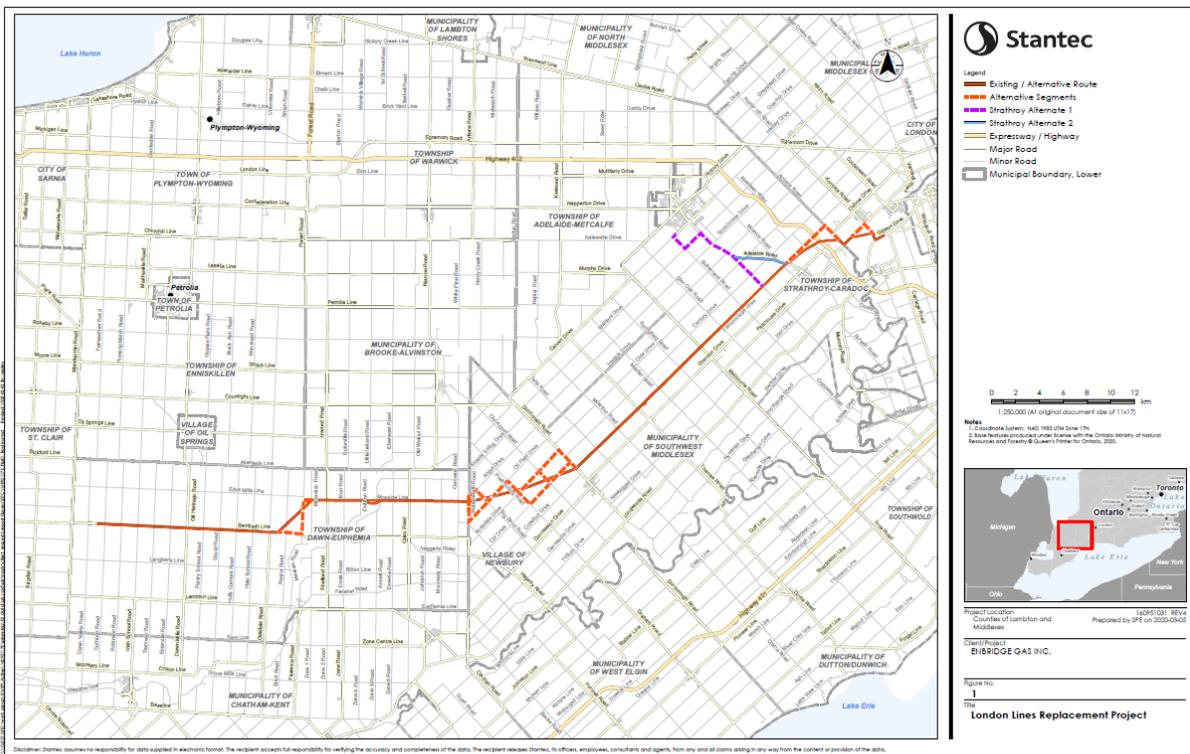
From: [REDACTED]
To: [REDACTED]@cottfn.com; [REDACTED]@cottfn.com; [REDACTED]@cottfn.com
Cc: [REDACTED]@stantec.com
Subject: FW: Enbridge Gas London Lines Project
Date: Monday, March 9, 2020 2:07:00 PM
Attachments: [London Lines map.pdf](#)

Good afternoon,

Further to the email below, please find attached an updated map of the route for the Project.

We look forward to working with you on this project.

Thank you,
[REDACTED]



Attachment 4.3

From: [REDACTED]
To: [REDACTED]@cottfn.com"
Cc: [REDACTED]@enbridge.com"; [REDACTED]@enbridge.com"; [REDACTED]@stantec.com"
Subject: Enbridge Gas Inc.: Notice of Commencement and Virtual Open House - London Lines Replacement Project (LLRP)
Date: Wednesday, April 8, 2020 6:51:00 PM
Attachments: [let_160951170_Indigenous_NoC-VOH_JFrench_2020-04-08_fnl.pdf](#)

Sent on behalf of [REDACTED] (Enbridge Gas Inc.)

Good evening,

Please find attached a Notice of Commencement and Virtual Open House regarding the Enbridge Gas Inc. ("Enbridge") London Lines Replacement Project (LLRP).

Regards,

[REDACTED]
Environmental Consultant, Assessment and Permitting

Direct: [REDACTED]
Mobile [REDACTED]
[REDACTED]@stantec.com

Stantec
1-70 Southgate Drive
Guelph ON N1G 4P5



Stantec Consulting Ltd.
300W-875 Cochrane Drive Markham, ON L3R 0B8



April 8, 2020

Attention: Chief Jacqueline French,
Chippewas of the Thames First Nation
320 Chippewa Road
Muncey ON N0N 1Y0

Dear Chief French,

Reference: Enbridge Gas – London Lines Replacement Project, Notice of Project Commencement and Virtual Open House

Enbridge Gas is proposing to replace a section of natural gas pipeline in order to improve the integrity of the pipeline network and to increase system flexibility. All current services will be maintained as a result of this project.

The London Lines Replacement Project (LLRP) will include the construction of approximately 75 kilometers (km) of 8-inch, high pressure natural gas pipeline. This will replace the two current pipelines known collectively as the London Lines. The LLRP will also include the construction of 10.5 km of a secondary 8-inch pipeline which will connect the replaced pipeline to the community of Strathroy. The LLRP will start within the Township of Dawn-Euphemia near Oil Heritage Road and Bentpath Lane. The pipeline project will continue through the municipality of Southwest Middlesex and will end at two locations: within the Municipality of Middlesex Centre at Komoka Road and Glendon Drive; and at a proposed new station at Calvert Drive and Sutherland Road in the Municipality of Strathroy-Caradoc. The general location and study area of the proposed pipeline is shown on the attached map.

As part of the planning process, Enbridge Gas has retained Stantec Consulting Ltd. (Stantec) to undertake an Environmental Study of the construction and operation for the proposed natural gas pipeline. The Environmental Study will fulfill the requirements of the Ontario Energy Board's (OEB) "Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 7th Edition (2016)".

An Environmental Report, summarizing the results of the Environmental Study, will accompany Enbridge's application to the OEB as part of their Leave to Construct (LTC) application. The Environmental Report for the proposed project is anticipated to be completed by early summer 2020. The OEB's review and approval is required before construction of the Project can proceed. If approved, construction of the pipeline is anticipated to begin in Spring/Summer 2021.

Chippewas of the Thames First Nation is invited to provide comments regarding the proposed pipeline. Specifically, Stantec is seeking information about any adverse impacts that the proposed project may have on constitutionally protected Aboriginal or treaty rights and any measures for mitigating those adverse impacts.

Stantec is presently compiling an environmental, socio-economic, and archaeological/cultural heritage inventory of the Environmental Study Area. As an Indigenous community with a potential interest in developments in that area, you are invited to provide or coordinate comments regarding the proposed pipeline.

As part of the Environmental Study, Enbridge is in the process of contacting the following agencies:

- Indigenous and Northern Affairs Canada; and
- Ontario Ministry of Indigenous Relations and Reconciliation.



April 8, 2020
Page 2 of 2



Reference: Enbridge Gas Distribution Inc. – London Lines Replacement Project, Notice of Project Commencement and Information Session

Public consultation with Indigenous communities, landowners, government agencies, current customers serviced by the London Lines, the general public, and other interested persons is an integral component of the planning process. As a result of the social distancing requirements set out by the Government of Canada and the Province of Ontario due to COVID-19, a Virtual Open House will be held in place of an in-person Open House regarding the proposed LLRP. The Virtual Open House will be available beginning on April 20, 2020 at 9:00 am EST until May 1, 2020 at 5:00 pm EST at:

www.solutions.ca/LondonLines

If you are unable to log onto the Virtual Open House between April 20 and May 1, please dial (519) 780-8186, leave a message with your contact information, and we will respond as soon as possible.

There will be a questionnaire available at the end of the presentation and you will have the ability to submit comments and/or questions about the proposed LLRP, including proposed routes, design and the anticipated project schedule during the presentation. In addition, a copy of the open house story boards will be available to download. Input received will be used to inform the selection of the preferred pipeline route, and to develop site specific environmental protection or mitigation measures for the Project.

If you have questions or concerns regarding the Project, please do not hesitate to contact the undersigned.

Regards,

ENBRIDGE GAS INC.

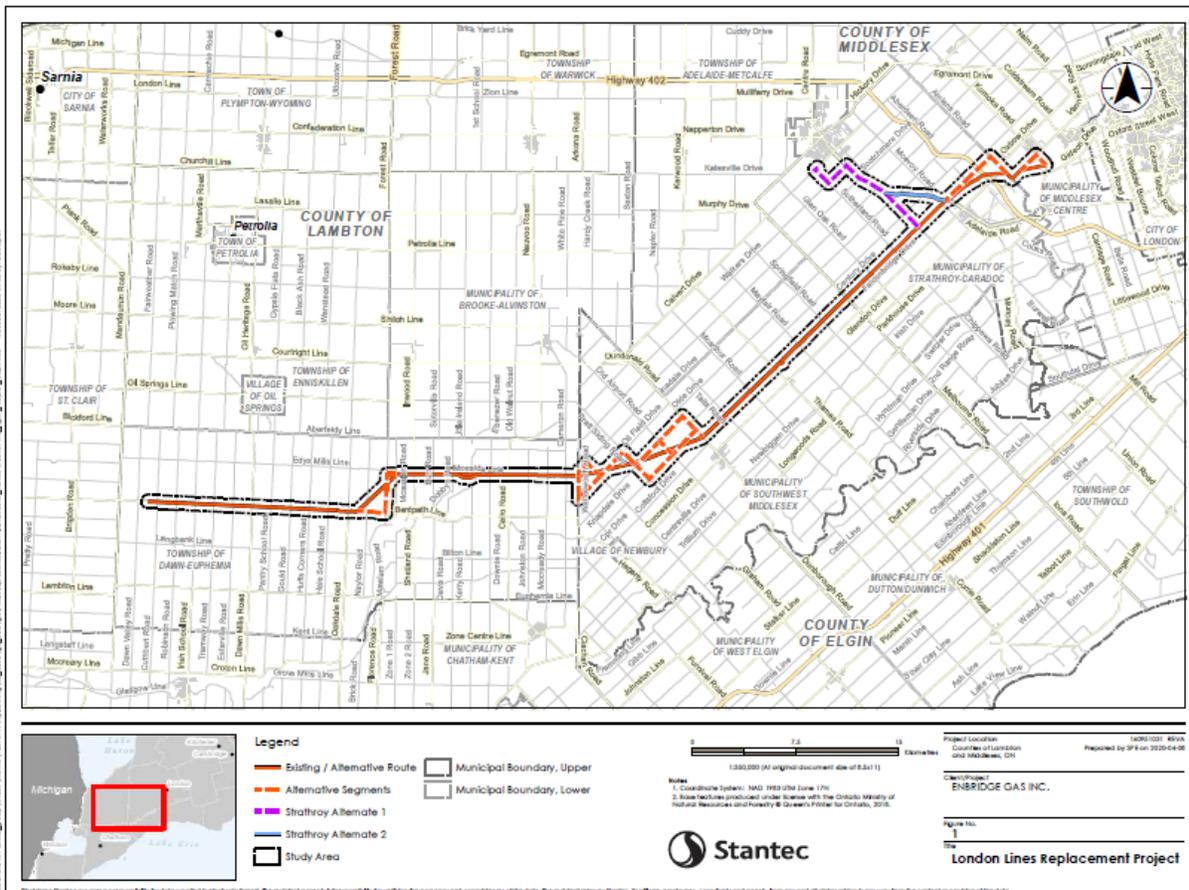


Senior Advisor, Indigenous Affairs
Enbridge Gas Inc.
50 Keil Drive North
Chatham, ON, N7M 5M1

PH: [REDACTED]
Cell: [REDACTED]
[REDACTED]@enbridge.com

Attachment: Figure 1: London Lines Replacement Project

c. [REDACTED] Sr. Environmental Analyst, Enbridge Gas Inc.
[REDACTED], Senior Project Manager, Stantec Consulting Ltd.



Disclaimer: Stantec's course responsibility for data supplied to other users. The recipient assumes responsibility for verifying the accuracy and completeness of the data. The recipient agrees to indemnify, defend, and hold Stantec harmless from and against any and all claims arising in any way from the content or production of the data.

Attachment 4.4

From: [REDACTED]
To: [REDACTED] <[\[REDACTED\]@scottfn.com](mailto:[REDACTED]@scottfn.com)>; [REDACTED]
Cc: [REDACTED] <[\[REDACTED\]@stantec.com](mailto:[REDACTED]@stantec.com)>
Subject: Enbridge Gas London Lines Project: Open House and Alternative Route
Date: Friday, May 15, 2020 10:04:00 AM
Attachments: [let_160951170_Thames_Notice-of-Change_20200513_fnl.pdf](#)

Good morning,

We hope this finds you and your family well.

I am following up with you on the Enbridge Gas London Lines Project on two topics.

First, we just wanted to follow up to confirm if you were able to access and view the VOH (Virtual Open House) for the London Lines Project? If you had any comments or would like more follow up please do not hesitate to contact us. We will be in contact with you regarding an opportunity for you to participate in monitoring on site for the Archaeological and Environmental surveys.

Secondly, I have attached a Notice of Project Change on the Enbridge Gas London Lines Project. For this Project, a third and fourth alternate route have been identified and included for consideration ("Strathroy Alternate 3" and "Strathroy Alternate 4") for the secondary pipeline to the community of Strathroy.

Stantec is request that any questions and/or comments regarding the Notice of Project Change or the proposed project be sent to them by May 29, 2020. The contact information for Stantec is also in the attachment.

If you have any questions or concerns about these two items, please feel free to reach out to [REDACTED] or myself and we would be happy to assist.

We hope you enjoy the long weekend. Take care.

Many thanks,
[REDACTED]



Stantec Consulting Ltd.
300W-675 Cochrane Drive, Markham ON L3R 0B8



May 13, 2020

Chippewas of the Thames First Nation
320 Chippewa Road
Muncey, ON N0N 1Y0

Dear Sir/Madam,

Reference: Enbridge Gas Inc. – London Lines Replacement Project: Notice of Project Change

Enbridge Gas Inc. (Enbridge) is proposing to replace a section of natural gas pipeline known as the London Lines in order to improve the integrity of the pipeline network and to increase system flexibility, as indicated in Enbridge's notification on April 8, 2020. The London Lines Replacement Project (LLRP) will include the construction of approximately 75 kilometers (km) of 8-inch, high pressure natural gas pipeline. This will replace the two current pipelines known collectively as the London Lines. The LLRP will also include the construction of approximately 10.5 km of a secondary 8-inch pipeline which will connect the replaced pipeline to the community of Strathroy.

You are receiving this letter because a third and fourth alternate route have been identified and included for consideration ("Strathroy Alternate 3" and "Strathroy Alternate 4") for the secondary pipeline to the community of Strathroy. For more details, please refer to the attached map.

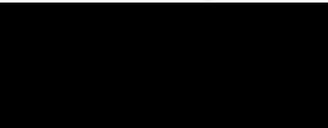
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An Environmental Report, summarizing the results of the Environmental Study, will accompany Enbridge's application to the OEB as part of their Leave to Construct (LTC) application. The Environmental Report for the proposed project is anticipated to be completed by summer 2020. The OEB's review and approval is required before construction of the Project can proceed. If approved, construction of the pipeline is anticipated to begin in Spring/Summer 2021.

We request that any questions and/or comments regarding the Notice of Project Change or the proposed project be sent to the following contacts by May 29, 2020.

Yours truly,

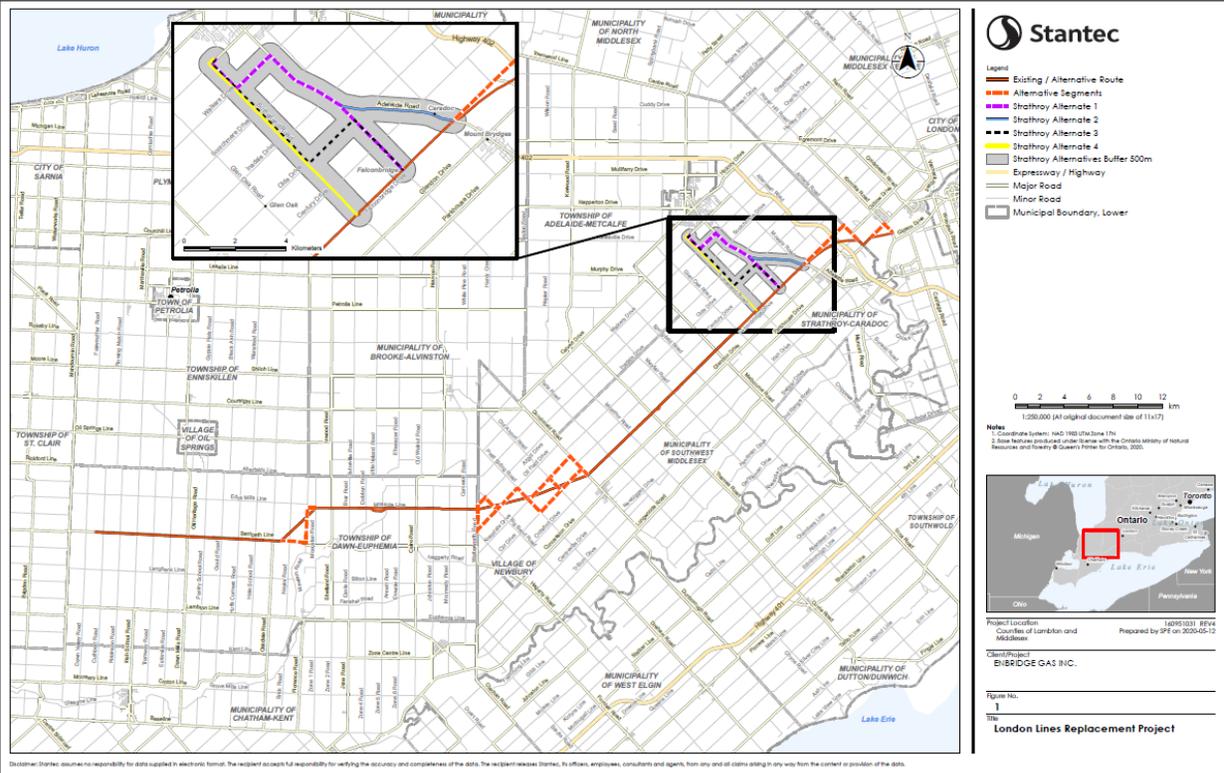
Stantec Consulting Ltd.



Senior Associate, Senior Project Manager
Phone: [REDACTED]
[REDACTED]@stantec.com

Attachment: Figure 1: London Lines Replacement Project

c. [REDACTED] Environmental Advisor, Enbridge Gas Inc.



Attachment 4.5

From: [REDACTED]
To: [REDACTED] <[REDACTED]@cottfn.com>; [REDACTED] <[REDACTED]@cottfn.com>
Cc: [REDACTED]
Bcc: [REDACTED] <[REDACTED]@stantec.com>
Subject: Virtual Meeting: Enbridge Gas London Lines Replacement Project
Date: Monday, July 20, 2020 10:34:00 AM
Attachments: COTTFN london lines notification.pdf
LLRP Preferred Route pq965.pdf

Good morning,

Hope this finds you well and enjoying the summer weather.

We wanted to touch base on the London Lines Replacement Project that Enbridge is currently in the process of planning. Enbridge has identified the need to replace an existing set of pipelines which run from

Enbridge Gas' Dawn Hub facility in the Township of Dawn-Euphemia, to Komoka in the Municipality of Middlesex Centre. Additionally, a new pipeline will be installed connecting the replacement pipeline to Strathroy in the Municipality of Strathroy-Caradoc. The project also involves upgrades to services and stations along the route. Please find attached our initial notification letter as well as an updated map of the preferred route.

We would like to set up a virtual meeting to provide you with an opportunity to ask any questions and provide your views on the potential impact the Project may have on your community's rights and interests, so we can address these impacts, as appropriate.

Also, as you likely already know [REDACTED] has retired from Enbridge. [REDACTED] will be replacing [REDACTED] in the role of Indigenous Advisor. [REDACTED] contact information is [REDACTED] <[REDACTED]@enbridge.com> and his cell is [REDACTED]. Please feel free to reach out to [REDACTED] or myself with any questions or concerns going forward.

Please let us know how best to proceed in setting up a virtual meeting. We look forward to the opportunity to speak with you about the Project.

Many thanks,

[REDACTED]

Attachment 4.6

From: [REDACTED]
To: [REDACTED]@cottfn.com; [REDACTED]@cottfn.com
Cc: [REDACTED]@stantec.com
Subject: London Lines Replacement Project: Environmental Report
Date: Thursday, July 23, 2020 10:10:00 AM

Good morning,

As you are aware, Enbridge Gas Inc. (Enbridge Gas) is seeking to construct a natural gas pipeline in order to replace a section of an existing natural gas pipeline in the Counties of Lambton and Middlesex . The Ontario Energy Board's *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7th Edition 2016* (Guidelines) recommend that a project proponent provide a copy of the environmental report (ER) for a project to the Ontario Pipeline Coordinating Committee for review and comment. In the link below please find a copy of the ER for the London Lines Replacement Project (the Project). Pursuant to the Guidelines please provide any comments on the ER for the Project by no later than Thursday September 3, 2020. You can access the ER at the link below and navigating to the Projects Tab and London Lines Replacement drop down.

<https://www.enbridgegas.com/About-Us>

Comments should be directed to:

[REDACTED]
Advisor, Environment
Enbridge Gas Inc.
101 Honda Boulevard
Markham, Ontario
L6C 0M6
Cell: [REDACTED]
Email: [REDACTED]@stantec.com

Many thanks and take care,

[REDACTED]

Attachment 5.1

From: [REDACTED]
To: [REDACTED] <[\[REDACTED\]@oneida.on.ca](mailto:[REDACTED]@oneida.on.ca)>; [REDACTED] <[\[REDACTED\]@oneida.on.ca](mailto:[REDACTED]@oneida.on.ca)>
Cc: [REDACTED]
Subject: Enbridge Gas London Lines Project
Date: Wednesday, February 26, 2020 2:54:00 PM
Attachments: [London Lines Project Map Preliminary.pdf](#)
[Oneida london lines notification.pdf](#)

Good afternoon Chief Hill,

Please find attached our notification letter and map for the Enbridge Gas Inc. London Lines Project.

-

We would like to set up a time to come to speak with your environment/consultation committee to discuss the project and provide you with details. Please reach out to [REDACTED] to arrange for a time for discussion.

We look forward to working with you on this project.

Thank you,

[REDACTED]



Enbridge Gas Inc
50 Keil Drive
Chatham, Ontario
N7M 5M1

Chief Jessica Hill
Oneida Nation of the Thames
2212 Elm Avenue
Southwold, ON
N0L 2G0

February 26, 2020

Re: London Lines Replacement Project

Dear Chief Hill,

Enbridge Gas has identified the need to replace an existing set of pipelines which run from Enbridge Gas' Dawn Hub facility in the Township of Dawn-Euphemia, to Komoka in the Municipality of Middlesex Centre. Additionally, a new pipeline will be installed connecting the replacement pipeline to Strathroy in the Municipality of Strathroy-Caradoc. The project also involves upgrades to services and stations along the route.

The existing pipeline is located in both existing road allowances as well as within easements. The replacement pipeline will be located in the same road allowances where possible to ensure existing customers are still able to have natural gas delivered. Where possible, pipeline that is currently in an easement will be moved to existing road allowances.

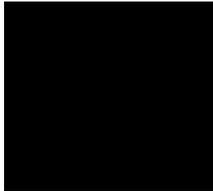
We would like to consult with your community on this proposed project. We are interested in your community's feedback, including any suggestions or proposals on mitigating, avoiding or accommodating any potential impacts to Aboriginal or treaty rights.

Enbridge Gas Inc. has been delegated the procedural aspects for consultation by the Ministry of Energy on behalf of Ontario. Ministry officials are also available should you wish to contact them directly with any questions or concerns. Please contact:

[REDACTED]
Policy Advisor
Indigenous Energy Unit
Ministry of Energy, Northern Development and Mines
[REDACTED]
[REDACTED]@ontario.ca

We would like to set up a meeting to discuss our project with you and provide you with an opportunity to express any questions or concerns you have. Please feel free to contact me at [REDACTED]@enbridge.com or [REDACTED] so we can set up a time to meet.

Miigwetch,

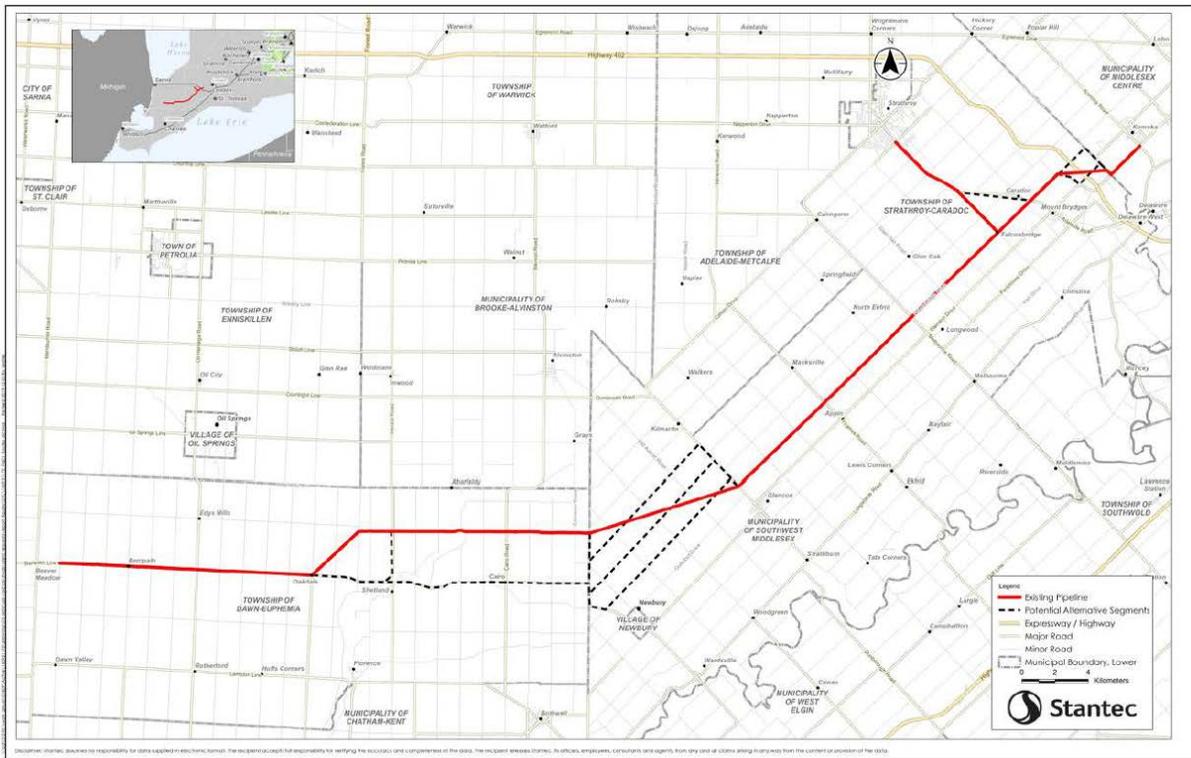


Senior Advisor, Indigenous Affairs

Enbridge Gas Inc

P: [REDACTED]
C: [REDACTED]

Toll Free: [REDACTED]



Attachment 5.2

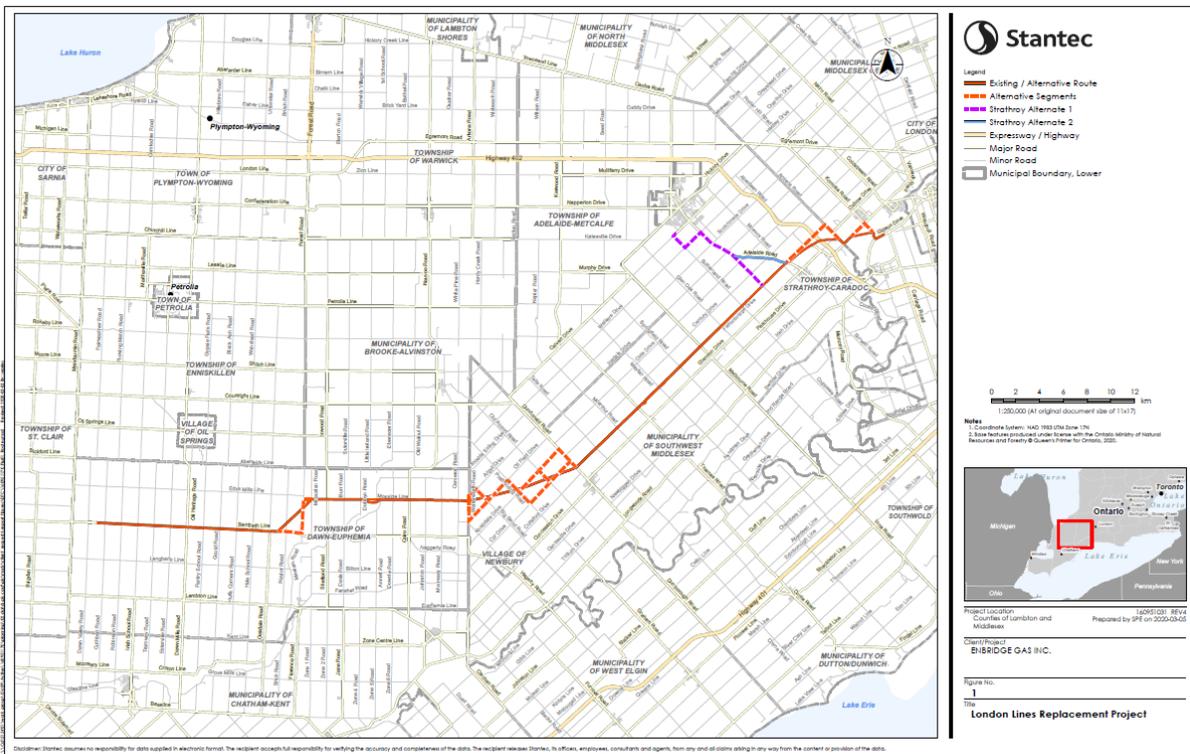
From: [REDACTED]
To: [REDACTED]@oneida.on.ca; [REDACTED]@oneida.on.ca
Cc: [REDACTED]@stantec.com
Subject: FW: Enbridge Gas London Lines Project
Date: Monday, March 9, 2020 2:06:00 PM
Attachments: [London Lines map.pdf](#)

Good afternoon,

Further to the email below, please find attached an updated map of the route for the Project.

We look forward to working with you on this project.

Thank you,
[REDACTED]



Attachment 5.3

From: [REDACTED]
To: [REDACTED]@oneida.on.ca"
Cc: [REDACTED]@enbridge.com"; [REDACTED]@enbridge.com"; [REDACTED]@stantec.com"
Subject: Enbridge Gas Inc.: Notice of Commencement and Virtual Open House - London Lines Replacement Project (LLRP)
Date: Wednesday, April 8, 2020 6:51:00 PM
Attachments: [let_160951170_Indigenous_NoC-VOH_JHill_2020-04-08_fnl.pdf](#)

Sent on behalf of [REDACTED] (Enbridge Gas Inc.)

Good evening,

Please find attached a Notice of Commencement and Virtual Open House regarding the Enbridge Gas Inc. ("Enbridge") London Lines Replacement Project (LLRP).

Regards,

[REDACTED]
Environmental Consultant, Assessment and Permitting

Direct: [REDACTED]
Mobile [REDACTED]
[REDACTED]@stantec.com

Stantec
1-70 Southgate Drive
Guelph ON N1G 4P5



Stantec Consulting Ltd.
300W-675 Cochrane Drive Markham, ON L3R 0B8



April 8, 2020

Attention: Chief Jessica Hill,
Oneida Nation of the Thames
2212 Elm Avenue
Southwold ON N0L 2G0

Dear Chief Hill,

Reference: Enbridge Gas – London Lines Replacement Project, Notice of Project Commencement and Virtual Open House

Enbridge Gas is proposing to replace a section of natural gas pipeline in order to improve the integrity of the pipeline network and to increase system flexibility. All current services will be maintained as a result of this project.

The London Lines Replacement Project (LLRP) will include the construction of approximately 75 kilometers (km) of 8-inch, high pressure natural gas pipeline. This will replace the two current pipelines known collectively as the London Lines. The LLRP will also include the construction of 10.5 km of a secondary 8-inch pipeline which will connect the replaced pipeline to the community of Strathroy. The LLRP will start within the Township of Dawn-Euphemia near Oil Heritage Road and Bentpath Lane. The pipeline project will continue through the municipality of Southwest Middlesex and will end at two locations: within the Municipality of Middlesex Centre at Komoka Road and Glendon Drive; and at a proposed new station at Calvert Drive and Sutherland Road in the Municipality of Strathroy-Caradoc. The general location and study area of the proposed pipeline is shown on the attached map.

As part of the planning process, Enbridge Gas has retained Stantec Consulting Ltd. (Stantec) to undertake an Environmental Study of the construction and operation for the proposed natural gas pipeline. The Environmental Study will fulfill the requirements of the Ontario Energy Board's (OEB) "Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 7th Edition (2016)".

An Environmental Report, summarizing the results of the Environmental Study, will accompany Enbridge's application to the OEB as part of their Leave to Construct (LTC) application. The Environmental Report for the proposed project is anticipated to be completed by early summer 2020. The OEB's review and approval is required before construction of the Project can proceed. If approved, construction of the pipeline is anticipated to begin in Spring/Summer 2021.

Oneida Nation of the Thames is invited to provide comments regarding the proposed pipeline. Specifically, Stantec is seeking information about any adverse impacts that the proposed project may have on constitutionally protected Aboriginal or treaty rights and any measures for mitigating those adverse impacts.

Stantec is presently compiling an environmental, socio-economic, and archaeological/cultural heritage inventory of the Environmental Study Area. As an Indigenous community with a potential interest in developments in that area, you are invited to provide or coordinate comments regarding the proposed pipeline.

As part of the Environmental Study, Enbridge is in the process of contacting the following agencies:

- Indigenous and Northern Affairs Canada; and
- Ontario Ministry of Indigenous Relations and Reconciliation.



April 8, 2020
Page 2 of 2



Reference: Enbridge Gas Distribution Inc. – London Lines Replacement Project, Notice of Project Commencement and Information Session

Public consultation with Indigenous communities, landowners, government agencies, current customers serviced by the London Lines, the general public, and other interested persons is an integral component of the planning process. As a result of the social distancing requirements set out by the Government of Canada and the Province of Ontario due to COVID-19, a Virtual Open House will be held in place of an in-person Open House regarding the proposed LLRP. The Virtual Open House will be available beginning on April 20, 2020 at 9:00 am EST until May 1, 2020 at 5:00 pm EST at:

www.solutions.ca/LondonLines

If you are unable to log onto the Virtual Open House between April 20 and May 1, please dial (519) 780-8186, leave a message with your contact information, and we will respond as soon as possible.

There will be a questionnaire available at the end of the presentation and you will have the ability to submit comments and/or questions about the proposed LLRP, including proposed routes, design and the anticipated project schedule during the presentation. In addition, a copy of the open house story boards will be available to download. Input received will be used to inform the selection of the preferred pipeline route, and to develop site specific environmental protection or mitigation measures for the Project.

If you have questions or concerns regarding the Project, please do not hesitate to contact the undersigned.

Regards,

ENBRIDGE GAS INC.



Senior Advisor, Indigenous Affairs
Enbridge Gas Inc.
50 Keil Drive North
Chatham, ON, N7M 5M1

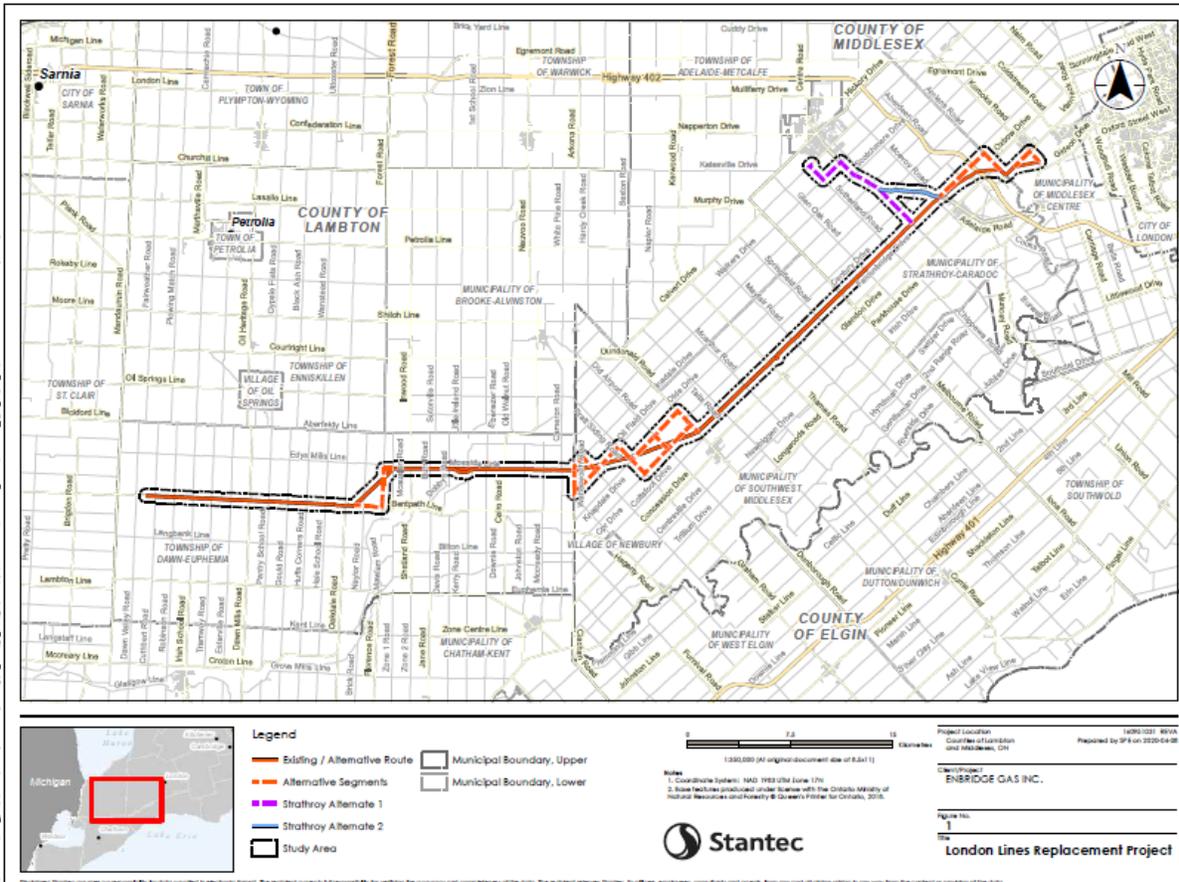
PH: [REDACTED]
Cell [REDACTED]

[REDACTED]@enbridge.com

Attachment: Figure 1: London Lines Replacement Project

c. [REDACTED] Sr. Environmental Analyst, Enbridge Gas Inc.

[REDACTED] Senior Project Manager, Stantec Consulting Ltd.



- Legend**
- Existing / Alternative Route
 - Alternative Segments
 - Strathroy Alternate 1
 - Strathroy Alternate 2
 - Study Area
 - Municipal Boundary, Upper
 - Municipal Boundary, Lower

0 7.5 15
Kilometres

Scale: 1:300,000 (At original document size of 8.5x11)

Notes:
 1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Some features are not shown on the map with the Ontario Ministry of Natural Resources and Forestry's Queen's Printer for Ontario, 2019.

Project Location
 County of Lambton and Middlesex, ON
 Prepared by SP on 2020-04-08

Client/Project
ENBRIDGE GAS INC.

Figure No.
 1

London Lines Replacement Project

Disclaimer: This document is prepared by the consultant for the client. The consultant accepts no responsibility for relying on the accuracy and completeness of the data. The consultant warrants that the data, to the best of its knowledge, is true, correct, accurate, complete and up-to-date. Some use and all other liability is hereby waived by the consultant in favor of the client.

Attachment 5.4

From: [REDACTED]
To: [REDACTED]@oneida.on.ca
Cc: [REDACTED]@stantec.com
Subject: Enbridge Gas London Lines Project: Open House and Alternative Route
Date: Friday, May 15, 2020 10:00:00 AM
Attachments: [let_160951170_Oneida_Notice-of-Change_20200513_fnl.pdf](#)

Good morning,

We hope this finds you and your family well.

I am following up with you on the Enbridge Gas London Lines Project on two topics.

First, we just wanted to follow up to confirm if you were able to access and view the VOH (Virtual Open House) for the London Lines Project? If you had any comments or would like more follow up please do not hesitate to contact us. We will be in contact with you regarding an opportunity for you to participate in monitoring on site for the Archaeological and Environmental surveys.

Secondly, I have attached a Notice of Project Change on the Enbridge Gas London Lines Project. For this Project, a third and fourth alternate route have been identified and included for consideration ("Strathroy Alternate 3" and "Strathroy Alternate 4") for the secondary pipeline to the community of Strathroy.

Stantec is request that any questions and/or comments regarding the Notice of Project Change or the proposed project be sent to them by May 29, 2020. The contact information for Stantec is also in the attachment.

If you have any questions or concerns about these two items, please feel free to reach out to [REDACTED] or myself and we would be happy to assist.

We hope you enjoy the long weekend. Take care.

Many thanks,

[REDACTED]



Stantec Consulting Ltd.
300W-675 Cochrane Drive, Markham ON L3R 0B8



May 13, 2020

Oneida Nation of the Thames
2212 Elm Avenue
Southwold, ON N0L 2G0

Dear Sir/Madam,

Reference: Enbridge Gas Inc. – London Lines Replacement Project: Notice of Project Change

Enbridge Gas Inc. (Enbridge) is proposing to replace a section of natural gas pipeline known as the London Lines in order to improve the integrity of the pipeline network and to increase system flexibility, as indicated in Enbridge's notification on April 8, 2020. The London Lines Replacement Project (LLRP) will include the construction of approximately 75 kilometers (km) of 8-inch, high pressure natural gas pipeline. This will replace the two current pipelines known collectively as the London Lines. The LLRP will also include the construction of approximately 10.5 km of a secondary 8-inch pipeline which will connect the replaced pipeline to the community of Strathroy.

You are receiving this letter because a third and fourth alternate route have been identified and included for consideration ("Strathroy Alternate 3" and "Strathroy Alternate 4") for the secondary pipeline to the community of Strathroy. For more details, please refer to the attached map.

As part of the planning process, Enbridge has retained Stantec Consulting Ltd. (Stantec) to undertake an Environmental Study of the construction and operation for the proposed natural gas pipeline. The Environmental Study will fulfill the requirements of the Ontario Energy Board's (OEB) "Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 7th Edition (2016)".

An Environmental Report, summarizing the results of the Environmental Study, will accompany Enbridge's application to the OEB as part of their Leave to Construct (LTC) application. The Environmental Report for the proposed project is anticipated to be completed by summer 2020. The OEB's review and approval is required before construction of the Project can proceed. If approved, construction of the pipeline is anticipated to begin in Spring/Summer 2021.

We request that any questions and/or comments regarding the Notice of Project Change or the proposed project be sent to the following contacts by May 29, 2020.

Yours truly,

Stantec Consulting Ltd.



Senior Associate, Senior Project Manager

Phone: [REDACTED]
[REDACTED]@stantec.com

Attachment: Figure 1: London Lines Replacement Project

c. [REDACTED] Environmental Advisor, Enbridge Gas Inc.

Attachment 5.5

From: [REDACTED]
To: [REDACTED]@oneida.on.ca; [REDACTED]@oneida.on.ca
Cc: [REDACTED]
Bcc: [REDACTED]@stantec.com
Subject: Virtual Meeting: Enbridge Gas London Lines Replacement Project
Date: Monday, July 20, 2020 10:38:00 AM
Attachments: [Oneida london lines notification.pdf](#)
[LLRP Preferred Route_pg965.pdf](#)

Good morning Chief Hill and the Environment Committee,

Hope this finds you well and enjoying the summer weather.

We wanted to touch base on the London Lines Replacement Project that Enbridge is currently in the process of planning. Enbridge has identified the need to replace an existing set of pipelines which run from Enbridge Gas' Dawn Hub facility in the Township of Dawn-Euphemia, to Komoka in the Municipality of Middlesex Centre. Additionally, a new pipeline will be installed connecting the replacement pipeline to Strathroy in the Municipality of Strathroy-Caradoc. The project also involves upgrades to services and stations along the route. Please find attached our initial notification letter as well as an updated map of the preferred route.

We would like to set up a virtual meeting to provide you with an opportunity to ask any questions and provide your views on the potential impact the Project may have on your community's rights and interests, so we can address these impacts, as appropriate.

Also, as you likely already know, [REDACTED] has retired from Enbridge. [REDACTED] will be replacing [REDACTED] the role of Indigenous Advisor. [REDACTED] contact information is [REDACTED]@enbridge.com and his cell is [REDACTED]. Please feel free to reach out to [REDACTED] or myself with any questions or concerns going forward.

Please let us know how best to proceed in setting up a virtual meeting. We look forward to the opportunity to speak with you about the project.

Many thanks,

[REDACTED]

From: Oneida Environment
To: [REDACTED]
Cc: [REDACTED]
Subject: [External] RE: Virtual Meeting: Enbridge Gas London Lines Replacement Project
Date: Monday, July 20, 2020 2:46:18 PM

EXTERNAL: PLEASE PROCEED WITH CAUTION.

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Good Day [REDACTED],

I hope you are doing well, I have CC'd Oneida Nation of the Thames new Chief Adrian Chrisjohn.

Thank you for reaching out regarding the Enbridge Gas Line Replacement Project. I will speak with Chief and see when he is available and I will get back to. If we can't meet this week, it might have to be the week of August 10th as I will be out of the office for two weeks.

Thank you and have a great day

[REDACTED]

Attachment 5.6

From: [REDACTED]
To: [REDACTED]@oneida.on.ca; [REDACTED]@oneida.on.ca
Cc: [REDACTED]@stantec.com
Subject: London Lines Replacement Project: Environmental Report
Date: Thursday, July 23, 2020 10:11:00 AM

Good morning,

As you are aware, Enbridge Gas Inc. (Enbridge Gas) is seeking to construct a natural gas pipeline in order to replace a section of an existing natural gas pipeline in the Counties of Lambton and Middlesex . The Ontario Energy Board's *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7th Edition 2016* (Guidelines) recommend that a project proponent provide a copy of the environmental report (ER) for a project to the Ontario Pipeline Coordinating Committee for review and comment. In the link below please find a copy of the ER for the London Lines Replacement Project (the Project). Pursuant to the Guidelines please provide any comments on the ER for the Project by no later than Thursday September 3, 2020. You can access the ER at the link below and navigating to the Projects Tab and London Lines Replacement drop down.

<https://www.enbridgegas.com/About-Us>

Comments should be directed to:

[REDACTED]
Advisor, Environment
Enbridge Gas Inc.
101 Honda Boulevard
Markham, Ontario
L6C 0M6
Cell: [REDACTED]
Email: [REDACTED]

Many thanks and take care,

[REDACTED]

[Attachment 5.7](#)

From: [REDACTED]@enbridge.com]
Sent: July-29-20 9:13 AM
To: Oneida Environment [REDACTED]@oneida.on.ca>; Chief Adrian Chrisjohn
[REDACTED]@oneida.on.ca>
Cc: [REDACTED]@enbridge.com>
Subject: RE: Virtual Meeting: Enbridge Gas London Lines Replacement Project

Thanks [REDACTED],

We would be able to speak on both the London Lines Replacement project as well as the Stratford Reinforcement project. We could also update on you on the other projects that were on the go.

Let us know what works best for you.

Enjoy your time out of the office.

[REDACTED]

From: Oneida Environment [REDACTED]@oneida.on.ca>
Sent: Wednesday, July 29, 2020 11:11 AM
To: [REDACTED]@enbridge.com>; Chief Adrian Chrisjohn
[REDACTED]@oneida.on.ca>
Cc: [REDACTED]@enbridge.com>
Subject: [External] RE: Virtual Meeting: Enbridge Gas London Lines Replacement Project

EXTERNAL: PLEASE PROCEED WITH CAUTION.

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Good Day [REDACTED],

Sounds great! I am in the office this week, does tomorrow or Friday at 11am work for you?

Looking forward to hearing about the projects.

[REDACTED]

To: [Oneida Environment: Chief Adrian Chrisjohn](#)
Cc: [REDACTED]@stantec.com
Subject: RE: Virtual Meeting: Enbridge Gas London Lines Replacement Project
Date: Wednesday, July 29, 2020 12:00:00 PM

Thank you [REDACTED] for your quick response.

We are able to meet with you on Thursday (tomorrow) at 11am. I have included a dial in number as we have a couple people from the project joining.

[REDACTED]

On the call from Enbridge will be:

[REDACTED] Indigenous Advisor
[REDACTED] Environmental Planner London Lines Replacement Project
[REDACTED] Environmental Planner, Stratford Reinforcement Project
[REDACTED] Indigenous Relations

I will send along a deck later today to provide you background information on the Projects.

Thanks and talk soon.

[REDACTED]

From: [REDACTED]
To: [Oneida Environment](#)
Cc: [REDACTED]
Subject: EGI Presentations for our 11am call today
Date: Thursday, July 30, 2020 7:58:00 AM
Attachments: [EGI - Stratford Reinforcement Project Oneida.pdf](#)
[EGI - London Lines Replacement Project Oneida.pdf](#)

Good morning [REDACTED],

Please find attached two presentations for our call today.

We will review the London Lines Replacement Project and then move onto the Stratford Reinforcement Project.

Talk to you soon,

[REDACTED]

Enbridge Gas London Lines Replacement Project

2020



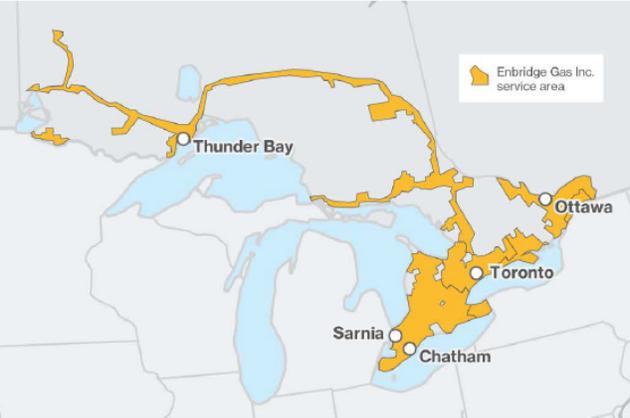
Enbridge Gas Inc.

North America's largest natural gas storage, transmission and distribution company



We deliver the energy that enhances peoples quality of life.

- **Values**
Safety, Integrity, Respect.
- **Experience**
170+ years of experience in safe and reliable service.
- **Distribution Business**
3.7M customers, heating >75% of Ontario homes.
- **Dawn Storage Hub**
Canada's largest and one of the top-5 natural gas trading hubs in North America.
- **Advancing Innovative Low-Carbon Solutions**
Conservation, cleaner technologies for heat / transportation (CNG, geothermal), green fuels (RNG, Hydrogen)



Formed Jan. 1, 2019 from the amalgamation of Union Gas Limited and Enbridge Gas Distribution.

Safety is our #1 priority



We invested
\$2.8B
2012-19 to maintain the
integrity of our system

We performed
177
pipeline integrity
inspections in 2019

We monitor our lines
24-7-365
with people and computerized
leak detection systems

We held
25
emergency exercises
drills in 2019



Above all else, we are always working to ensure the safety of our people, neighbors and the environment

Our Values: Safety

3

London Lines Replacement Project



Purpose

- Project is called London Lines Replacement Project (LLRP).
- Proposing to replace the London Lines from Dawn to Komoka as part of Enbridge Gas Inc (EGI's) Asset Management Plan to improve the integrity of the pipeline network and to increase system flexibility.
- Majority of existing London Lines installed between 1930's to 1950's with some sections abandoned and other sections replaced.
- Due to the nature of the scope, Ontario Energy Board (OEB) approval of the project is required prior to construction start.

4

London Lines Replacement Project



Project details

- Project will include the construction of approximately 83 kilometers of 8 inch, high pressure, steel, natural gas pipeline.
- This will replace the two current pipelines known collectively as the London Lines.
- The LLRP will also include the construction of a new secondary pipeline, to connect the replaced 8-inch pipeline to the Municipality of Strathroy-Caradoc (8.4 km).
- All current services will be maintained as a result of this project.
- The proposed pipeline is considered a high pressure distribution pipeline where individual homes and businesses will continue to have the ability to connect.
- The proposed pipeline route is to install the pipeline within the road allowance in which the existing pipeline(s) are located to maintain customer access to gas, and where possible, consider relocating the pipeline from private easements to road allowance to provide additional access to customers
- Goal – decommission and leave in place existing London Lines and remove where required – as outlined in existing franchise agreement.

5

London Lines Replacement Project



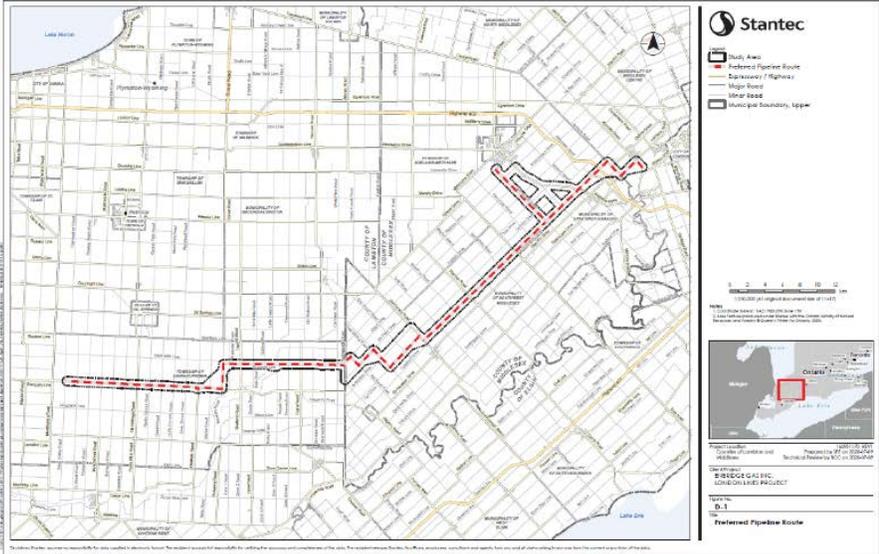
Project details

- Project is subject to Ontario Energy Board (OEB) approval.
- OEB application will be submitted August 2020.
- Construction timeline: Pre-work in fall 2020. On-site from Spring 2021 to Winter 2021. Clean-up and restoration work in 2022.

6

London Lines Replacement Project

Project Maps - preferred and alternate routes



London Lines Replacement Project



- Depending on the final preferred route the pipeline will cross up to 99 watercourses, 6 wetlands and the Sydenham River within the SCRC watershed.
 - 10 warm watercourses, 30 cold watercourses and 63 unknown thermal regime watercourses
 - 5 Provincially Significant Wetlands (PSW); McCready Woods (SC 22), Bobcat Swamp Wetland Complex (SC 2), Melbourne Marsh (SC 3), Longwoods Woodlot Wetland Complex (SC 6) and Komoka/South Strathroy Creek Wetland (SC 9)
 - 1 evaluated wetland: McPhail Tract

- Depending on the final preferred route the pipeline will cross up to 11 watercourses and one (1) wetland within the UTRCA watershed
 - 6 warm watercourses, 4 cold watercourses and 1 unknown thermal regime watercourses
 - One (1) Provincially Significant Wetland (PSW); Komoka / South Strathroy Creek Wetland

8

Species at Risk Summary Background review



- Aquatic Species at Risk
 - 18 records of aquatic species at risk
 - 7 fish species and 11 mussel species

- Terrestrial Species at Risk
 - 30 species at risk known to occur
 - 13 birds, 8 plants, 5 reptiles and 4 mammals

An assessment of candidate habitat and/or habitat use for SAR is being completed during 2020 field investigations.

Animal Group	Common Name	Scientific Name	SAR or SOCC Listing	
			ESA	SARA
Fish	Black Redhorse	<i>Moxostoma valenciennesi</i>	THR	THR
	Blackstripe Topminnow	<i>Fundulus notatus</i>	SC	SC
	Eastern Sand Darter	<i>Ammocrypta pellucida</i>	END	THR
	Grass Pickerel	<i>Esox americanus vermiculatus</i>	SC	SC
	Northern Madtom	<i>Naturus oligocephalus</i>	END	END
	Northern Sunfish	<i>Lepomis gibbosus</i>	SC	SC
	Pugnose Minnow	<i>Oxygocodius erilliae</i>	THR	THR
	Pugnose Shiner	<i>Notropis elongatus</i>	THR	THR
	River Darter	<i>Percina shumardi</i>	END	END
	Silver Lamprey	<i>Ichthyomyzon unicuspis</i>	-	SC
	Silver Shiner	<i>Notropis phlogenia</i>	THR	THR
	Spotted Gar	<i>Lepisosteus oculatus</i>	END	END
	Spotted Sucker	<i>Moxostoma valenciennesi</i>	SC	SC
	Mussel	Fawnsfoot	<i>Truncilla donaciformis</i>	END
Kidneyshell		<i>Ptychocheilus fasciatus</i>	END	END
Littliput		<i>Troxostoma parvum</i>	THR	END
Mapleleaf		<i>Quadrula quadrata</i>	SC	SC
Northern Riffleshell **		<i>Epicobasma rangiana</i>	END	END
Rainbow		<i>Villosa iris</i>	SC	SC
Rayed Bean **		<i>Villosa labialis</i>	END	END
Round Hickorynut **		<i>Obovaria olivaria</i>	END	END
Round Pigtoe **		<i>Pisurobema zimbexia</i>	END	END
Salamander Mussel **		<i>Silphocheilus ambigua</i>	END	END
Snuffbox **		<i>Epicobasma biquetra</i>	END	END
Threehorn Wartyback		<i>Obliquaria reflexa</i>	THR	THR
Wavy-rayed Lampmussel		<i>Lampisilla fasciata</i>	THR	SC

** Critical Habitat for the species recorded at the watercourse crossing (DFO 2010)

9

London Lines Replacement Project



We want your feedback - we are currently in the consultation phase

- Opportunity to ask any questions and provide your views on the potential impact the Project may have on your community's rights and interests, so we can address these impacts, as appropriate.
- As part of the planning process, Enbridge Gas has retained Stantec Consulting Ltd. (Stantec) to undertake an Environmental Study of the construction and operation for the proposed natural gas pipeline.
- The Environmental Study will fulfill the requirements of the Ontario Energy Board (OEB). This report is now complete and the link was emailed to your community on July 23, 2020
- Stantec is presently compiling an environmental, socio-economic, and archaeological/cultural heritage inventory of the Environmental Study area.

[Attachment 5.9](#)

From: [REDACTED]
To: [Oneida Environment](#)
Cc: [REDACTED]
Subject: Follow up information
Date: Friday, July 31, 2020 10:09:00 AM
Attachments: [EGI - Stratford Reinforcement Project Oneida.pdf](#)

Hi [REDACTED],

I wanted to take a moment to thank you for the discussion yesterday. I greatly enjoyed your introduction and history of your Nation.

We appreciated the opportunity to speak with you about the London Lines and Stratford Reinforcement project. I wanted to provide you with the updated deck on the Stratford project that includes the slide with the environmental aspects to it.

Also, I wanted to provide you with the link to the Environmental Report for Stratford. The report can be found under the Projects tab and the Stratford Reinforcement drop down.
<https://www.enbridgegas.com/About-Us>

I look forward to hearing back from you about the dates for the next set of meetings.

Have a great weekend and we will be in touch.

All the best,

[REDACTED]

Attachment 5.10

From: [REDACTED]
To: [Oneida Environment](#)
Cc: [REDACTED]
Subject: August 24 - London Lines consultation
Date: Tuesday, August 18, 2020 10:57:00 AM

Hi [REDACTED]

Hope this finds you well.

I wanted to follow up on the London Lines presentation to the Clan Mothers that was discussed in our recent meeting. Are we able to present at their next meeting, which I believe is August 24? If so, what time would you like us?

Thanks so much,

[REDACTED]

Attachment 6.1

From: [REDACTED]
Sent: Wednesday, February 26, 2020 3:01 PM
To: [REDACTED]@wifn.org' [REDACTED]@wifn.org>
Cc: [REDACTED]@enbridge.com>
Subject: Enbridge Gas London Lines Project

Good afternoon Chief Miskokoman,

Please find attached our notification letter and map for the Enbridge Gas Inc. London Lines Project.

-

We would like to set up a time to come to speak with your environment/consultation committee to discuss the project and provide you with details. Please reach out to [REDACTED] to arrange for a time for discussion.

We look forward to working with you on this project.

Thank you,

[REDACTED]



Enbridge Gas Inc
50 Keil Drive
Chatham, Ontario
N7M 5M1

Chief Dan Miskokoman
Bkewanong Walpole Island First Nation
117 Tahgahoning Road
Walpole Island, ON
N8A 4K9

February 26, 2020

Re: London Lines Replacement Project

Dear Chief Miskokoman,

Enbridge Gas has identified the need to replace an existing set of pipelines which run from Enbridge Gas' Dawn Hub facility in the Township of Dawn-Euphemia, to Komoka in the Municipality of Middlesex Centre. Additionally, a new pipeline will be installed connecting the replacement pipeline to Strathroy in the Municipality of Strathroy-Caradoc. The project also involves upgrades to services and stations along the route.

The existing pipeline is located in both existing road allowances as well as within easements. The replacement pipeline will be located in the same road allowances where possible to ensure existing customers are still able to have natural gas delivered. Where possible, pipeline that is currently in an easement will be moved to existing road allowances.

We would like to consult with your community on this proposed project. We are interested in your community's feedback, including any suggestions or proposals on mitigating, avoiding or accommodating any potential impacts to Aboriginal or treaty rights.

Enbridge Gas Inc. has been delegated the procedural aspects for consultation by the Ministry of Energy on behalf of Ontario. Ministry officials are also available should you wish to contact them directly with any questions or concerns. Please contact:

[REDACTED]
Policy Advisor
Indigenous Energy Unit
Ministry of Energy, Northern Development and Mines
[REDACTED]

We would like to set up a meeting to discuss our project with you and provide you with an opportunity to express any questions or concerns you have. Please feel free to contact me at [REDACTED]@enbridge.com or [REDACTED] so we can set up a time to meet.

Miigwetch,



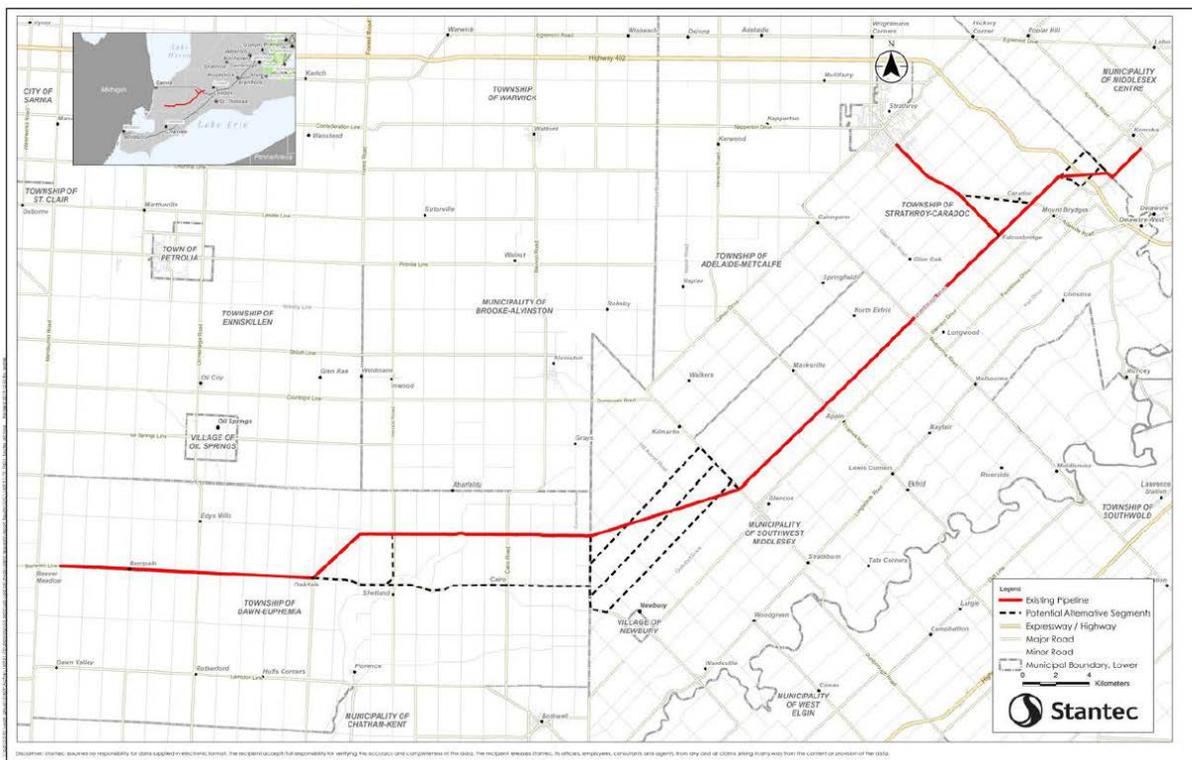
Senior Advisor, Indigenous Affairs

Enbridge Gas Inc

P: [REDACTED]

C: [REDACTED]

Toll Free: [REDACTED]



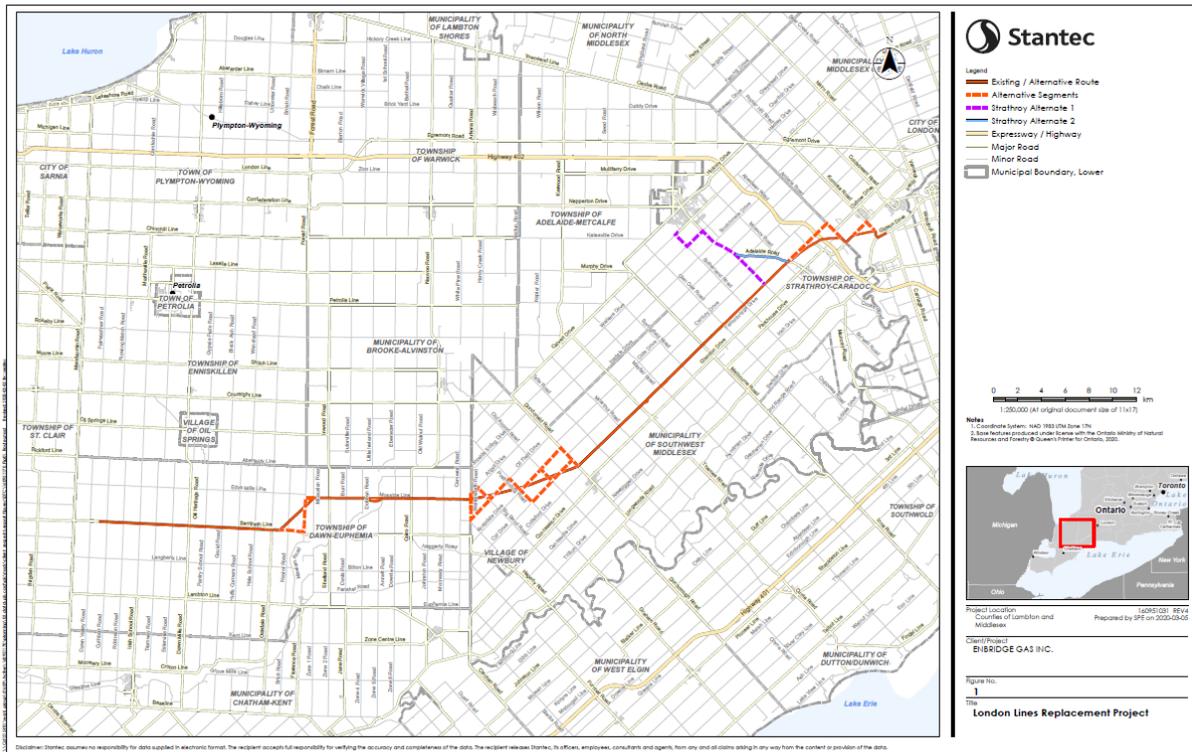
From: [REDACTED]
 To: [REDACTED]@wfn.org
 Cc: [REDACTED]@stantec.com
 Subject: FW: Enbridge Gas London Lines Project
 Date: Monday, March 9, 2020 2:09:00 PM
 Attachments: [London Lines map.pdf](#)

Good afternoon Chief Miskokoman,

Further to the email below, please find attached an updated map of the route for the Project.

We look forward to working with you on this project.

Thank you,
[REDACTED]



Attachment 6.3

From: [REDACTED]
To: [REDACTED]@wifn.org
Cc: [REDACTED]@enbridge.com; [REDACTED]@enbridge.com; [REDACTED]@stantec.com
Subject: Enbridge Gas Inc.: Notice of Commencement and Virtual Open House - London Lines Replacement Project (LLRP)
Date: Wednesday, April 8, 2020 6:51:00 PM
Attachments: [let_160951170_Indigenous_NoC-VOH_DMiskokomon_2020-04-08_fnl.pdf](#)

Sent on behalf of [REDACTED] (Enbridge Gas Inc.)

Good evening,

Please find attached a Notice of Commencement and Virtual Open House regarding the Enbridge Gas Inc. ("Enbridge") London Lines Replacement Project (LLRP).

Regards,

[REDACTED]
Environmental Consultant, Assessment and Permitting

Direct: [REDACTED]
Mobile: [REDACTED]
[REDACTED]@stantec.com

Stantec
1-70 Southgate Drive
Guelph ON N1G 4P5



Stantec Consulting Ltd.
300W-675 Cochrane Drive Markham, ON L3R 0B8



April 8, 2020

Attention: Chief Dan Miskokomon,
Walpole Island First Nation
117 Tahghoning Road
Walpole Island ON N8A 4K9

Dear Chief Miskokomon,

Reference: Enbridge Gas – London Lines Replacement Project, Notice of Project Commencement and Virtual Open House

Enbridge Gas is proposing to replace a section of natural gas pipeline in order to improve the integrity of the pipeline network and to increase system flexibility. All current services will be maintained as a result of this project.

The London Lines Replacement Project (LLRP) will include the construction of approximately 75 kilometers (km) of 8-inch, high pressure natural gas pipeline. This will replace the two current pipelines known collectively as the London Lines. The LLRP will also include the construction of 10.5 km of a secondary 8-inch pipeline which will connect the replaced pipeline to the community of Strathroy. The LLRP will start within the Township of Dawn-Euphemia near Oil Heritage Road and Bentpath Lane. The pipeline project will continue through the municipality of Southwest Middlesex and will end at two locations: within the Municipality of Middlesex Centre at Komoka Road and Glendon Drive; and at a proposed new station at Calvert Drive and Sutherland Road in the Municipality of Strathroy-Caradoc. The general location and study area of the proposed pipeline is shown on the attached map.

As part of the planning process, Enbridge Gas has retained Stantec Consulting Ltd. (Stantec) to undertake an Environmental Study of the construction and operation for the proposed natural gas pipeline. The Environmental Study will fulfill the requirements of the Ontario Energy Board's (OEB) "Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 7th Edition (2016)".

An Environmental Report, summarizing the results of the Environmental Study, will accompany Enbridge's application to the OEB as part of their Leave to Construct (LTC) application. The Environmental Report for the proposed project is anticipated to be completed by early summer 2020. The OEB's review and approval is required before construction of the Project can proceed. If approved, construction of the pipeline is anticipated to begin in Spring/Summer 2021.

Walpole Island First Nation is invited to provide comments regarding the proposed pipeline. Specifically, Stantec is seeking information about any adverse impacts that the proposed project may have on constitutionally protected Aboriginal or treaty rights and any measures for mitigating those adverse impacts.

Stantec is presently compiling an environmental, socio-economic, and archaeological/cultural heritage inventory of the Environmental Study Area. As an Indigenous community with a potential interest in developments in that area, you are invited to provide or coordinate comments regarding the proposed pipeline.

As part of the Environmental Study, Enbridge is in the process of contacting the following agencies:

- Indigenous and Northern Affairs Canada; and
- Ontario Ministry of Indigenous Relations and Reconciliation.



April 8, 2020
Page 2 of 2



Reference: Enbridge Gas Distribution Inc. – London Lines Replacement Project, Notice of Project Commencement and Information Session

Public consultation with Indigenous communities, landowners, government agencies, current customers serviced by the London Lines, the general public, and other interested persons is an integral component of the planning process. As a result of the social distancing requirements set out by the Government of Canada and the Province of Ontario due to COVID-19, a Virtual Open House will be held in place of an in-person Open House regarding the proposed LLRP. The Virtual Open House will be available beginning on April 20, 2020 at 9:00 am EST until May 1, 2020 at 5:00 pm EST at:

www.solutions.ca/LondonLines

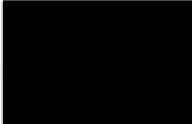
If you are unable to log onto the Virtual Open House between April 20 and May 1, please dial (519) 780-8186, leave a message with your contact information, and we will respond as soon as possible.

There will be a questionnaire available at the end of the presentation and you will have the ability to submit comments and/or questions about the proposed LLRP, including proposed routes, design and the anticipated project schedule during the presentation. In addition, a copy of the open house story boards will be available to download. Input received will be used to inform the selection of the preferred pipeline route, and to develop site specific environmental protection or mitigation measures for the Project.

If you have questions or concerns regarding the Project, please do not hesitate to contact the undersigned.

Regards,

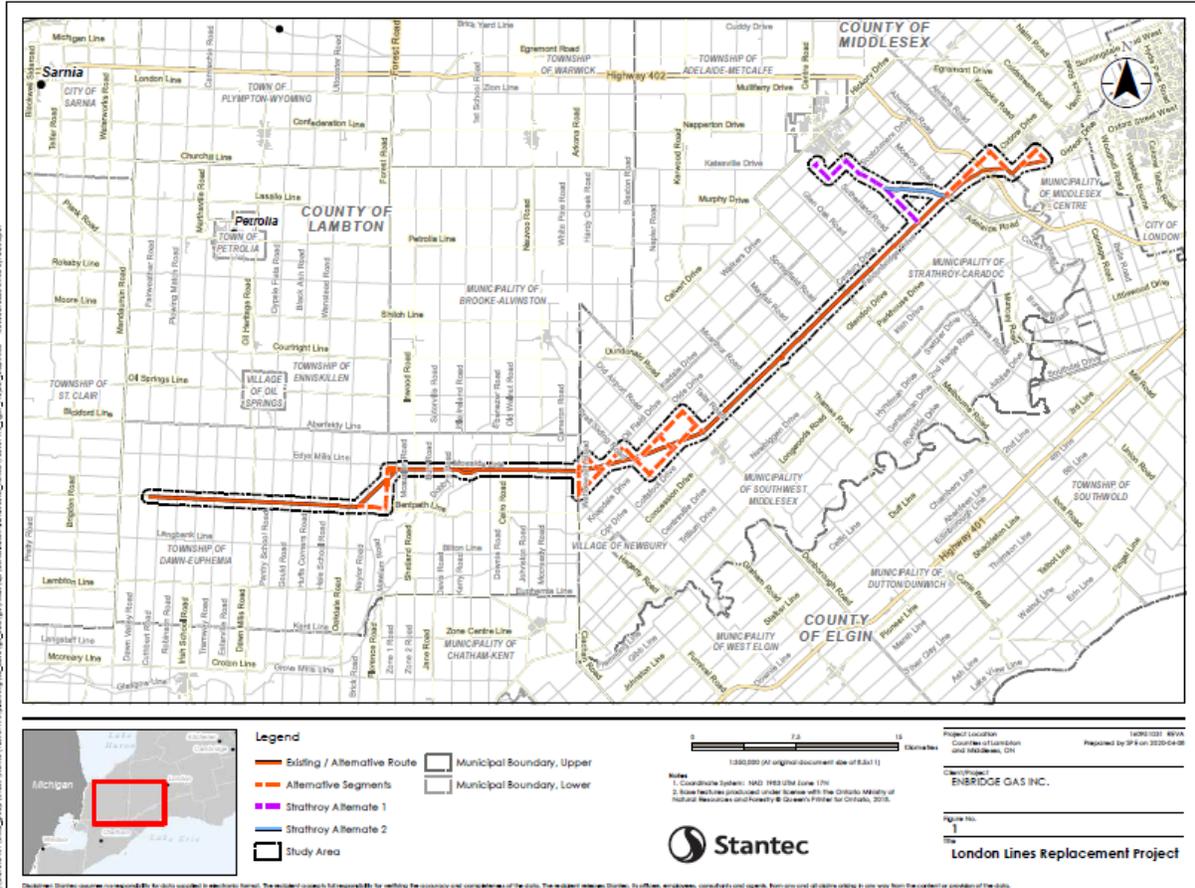
ENBRIDGE GAS INC.



Senior Advisor, Indigenous Affairs
Enbridge Gas Inc.
50 Keil Drive North
Chatham, ON, N7M 5M1
PH: [REDACTED]
Cell: [REDACTED]
[REDACTED]@enbridge.com

Attachment: Figure 1: London Lines Replacement Project

c. [REDACTED] Sr. Environmental Analyst, Enbridge Gas Inc.
[REDACTED] Senior Project Manager, Stantec Consulting Ltd.



Attachment 6.4

From: [REDACTED]
To: [REDACTED]@wifn.org; [REDACTED]
Cc: [REDACTED]@stantec.com
Subject: Enbridge Gas London Lines Project: Open House and Alternative Route
Date: Friday, May 15, 2020 10:05:00 AM
Attachments: [let 160951170 Walpole Notice-of-Change 20200513 fnl.pdf](#)

Good morning,

We hope this finds you and your family well.

I am following up with you on the Enbridge Gas London Lines Project on two topics.

First, we just wanted to follow up to confirm if you were able to access and view the VOH (Virtual Open House) for the London Lines Project? If you had any comments or would like more follow up please do not hesitate to contact us. We will be in contact with you regarding an opportunity for you to participate in monitoring on site for the Archaeological and Environmental surveys.

Secondly, I have attached a Notice of Project Change on the Enbridge Gas London Lines Project. For this Project, a third and fourth alternate route have been identified and included for consideration ("Strathroy Alternate 3" and "Strathroy Alternate 4") for the secondary pipeline to the community of Strathroy.

Stantec is request that any questions and/or comments regarding the Notice of Project Change or the proposed project be sent to them by May 29, 2020. The contact information for Stantec is also in the attachment.

If you have any questions or concerns about these two items, please feel free to reach out to [REDACTED] or myself and we would be happy to assist.

We hope you enjoy the long weekend. Take care.

Many thanks,
[REDACTED]



Stantec Consulting Ltd.
300W-675 Cochrane Drive, Markham ON L3R 0B8



May 13, 2020

Walpole Island First Nation
117 Tahghoning Road
Walpole Island, ON N8A 4K9

Dear Sir/Madam,

Reference: Enbridge Gas Inc. – London Lines Replacement Project: Notice of Project Change

Enbridge Gas Inc. (Enbridge) is proposing to replace a section of natural gas pipeline known as the London Lines in order to improve the integrity of the pipeline network and to increase system flexibility, as indicated in Enbridge's notification on April 8, 2020. The London Lines Replacement Project (LLRP) will include the construction of approximately 75 kilometers (km) of 8-inch, high pressure natural gas pipeline. This will replace the two current pipelines known collectively as the London Lines. The LLRP will also include the construction of approximately 10.5 km of a secondary 8-inch pipeline which will connect the replaced pipeline to the community of Strathroy.

You are receiving this letter because a third and fourth alternate route have been identified and included for consideration ("Strathroy Alternate 3" and "Strathroy Alternate 4") for the secondary pipeline to the community of Strathroy. For more details, please refer to the attached map.

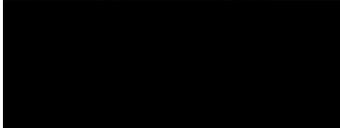
As part of the planning process, Enbridge has retained Stantec Consulting Ltd. (Stantec) to undertake an Environmental Study of the construction and operation for the proposed natural gas pipeline. The Environmental Study will fulfill the requirements of the Ontario Energy Board's (OEB) "Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 7th Edition (2016)".

An Environmental Report, summarizing the results of the Environmental Study, will accompany Enbridge's application to the OEB as part of their Leave to Construct (LTC) application. The Environmental Report for the proposed project is anticipated to be completed by summer 2020. The OEB's review and approval is required before construction of the Project can proceed. If approved, construction of the pipeline is anticipated to begin in Spring/Summer 2021.

We request that any questions and/or comments regarding the Notice of Project Change or the proposed project be sent to the following contacts by May 29, 2020.

Yours truly,

Stantec Consulting Ltd.



Senior Associate, Senior Project Manager

Phone: [REDACTED]

[REDACTED]@stantec.com

From: [REDACTED]
To: [REDACTED] [@wifn.org](mailto:[REDACTED]@wifn.org)
Cc: [REDACTED]
Bcc: [REDACTED] [@stantec.com](mailto:[REDACTED]@stantec.com)
Subject: Virtual Meeting: Enbridge Gas London Lines Project
Date: Monday, July 20, 2020 10:24:00 AM
Attachments: [Bkewanono london lines notification.pdf](#)
[LLRP Preferred Route pq965.pdf](#)

Good morning Chief Miskokomon,

Hope this finds you well and enjoying the summer weather.

We wanted to touch base on the London Lines Replacement Project that Enbridge is currently in the process of planning. Enbridge has identified the need to replace an existing set of pipelines which run from

Enbridge Gas' Dawn Hub facility in the Township of Dawn-Euphemia, to Komoka in the Municipality of Middlesex Centre. Additionally, a new pipeline will be installed connecting the replacement pipeline to Strathroy in the Municipality of Strathroy-Caradoc. The project also involves upgrades to services and stations along the route. Please find attached our initial notification letter as well as an updated map of the preferred route.

We would like to set up a virtual meeting to provide you with an opportunity to ask any questions and provide your views on the potential impact the Project may have on your community's rights and interests, so we can address these impacts, as appropriate.

Also, as you likely already know, [REDACTED] has retired from Enbridge. [REDACTED] will be replacing [REDACTED] in the role of Indigenous Advisor. [REDACTED] information is [REDACTED] [@enbridge.com](mailto:[REDACTED]@enbridge.com) and his cell is [REDACTED]. Please feel free to reach out to [REDACTED] or myself with any questions or concerns going forward.

Please let us know how best to proceed in setting up a virtual meeting. We look forward to the opportunity to speak with you about the project.

Many thanks,

[REDACTED]

Attachment 6.6

From: [REDACTED]
To: [REDACTED] [@wifn.org](mailto:[REDACTED]@wifn.org)
Cc: [REDACTED] [@stantec.com](mailto:[REDACTED]@stantec.com)
Subject: London Lines Replacement Project: Environmental Report
Date: Thursday, July 23, 2020 10:12:00 AM

Good morning,

As you are aware, Enbridge Gas Inc. (Enbridge Gas) is seeking to construct a natural gas pipeline in order to replace a section of an existing natural gas pipeline in the Counties of Lambton and Middlesex . The Ontario Energy Board's *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7th Edition 2016* (Guidelines) recommend that a project proponent provide a copy of the environmental report (ER) for a project to the Ontario Pipeline Coordinating Committee for review and comment. In the link below please find a copy of the ER for the London Lines Replacement Project (the Project). Pursuant to the Guidelines please provide any comments on the ER for the Project by no later than Thursday September 3, 2020. You can access the ER at the link below and navigating to the Projects Tab and London Lines Replacement drop down.

<https://www.enbridgegas.com/About-Us>

Comments should be directed to:

[REDACTED]
Advisor, Environment
Enbridge Gas Inc.
101 Honda Boulevard
Markham, Ontario
L6C 0M6
Cell: [REDACTED]
Email: [REDACTED] [@stantec.com](mailto:[REDACTED]@stantec.com)

Many thanks and take care,

[REDACTED]

Attachment 6.7

From: [REDACTED]
To: [REDACTED] [\[REDACTED\]@wifn.org](mailto:[REDACTED]@wifn.org)
Cc: [REDACTED] [\[REDACTED\]@stantec.com](mailto:[REDACTED]@stantec.com)
Subject: Virtual Meeting: Enbridge Gas London Lines Reinforcement Project
Date: Monday, August 24, 2020 2:22:00 PM

Good afternoon Chief,

I hope that you, your family and the community is doing well despite the COVID situation we find ourselves in. What a crazy couple of months it has been and continues to be.

Would you and the consultation committee be meeting virtually so we could have a call to discuss the London Lines Project? I would have the Project Manager and Environmental Planner on the call as well as [REDACTED] to discuss your community's feedback, including any suggestions or proposals on mitigating, avoiding or accommodating any potential impacts.

Again, I hope this finds you well and we look forward to speaking with you.

Thanks,
[REDACTED]

Attachment 6.8

From: [REDACTED]@enbridge.com>
Sent: Monday, August 31, 2020 10:45 AM
To: [REDACTED]@enbridge.com>
Subject: London Lines Phone Calls

Chief Miskokomon is available at 10am on Wednesday, Sept. 9. I let him know it's about an hour for the presentation. He's pretty busy on the campaign trail as elections take place on Sept. 19.