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Date: 1/03/2022

Subject: Proximity Request – Richland Lateral Phase I Proximity Request

Sender: Colby Lundstrom, Manager of Compliance and Operations
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Identification of Proceeding: N/A

Identification of Documents: CNG – RICHLAND LATERAL PHASE I – PROXIMITY
REQUEST 1/3/2022

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8113 WEST GRANDRIDGE BOULEVARD, KENNEWICK, WASHINGTON 99336-7166

January 3rd, 2022

Sean Mayo
Director, Pipeline Safety
Utilities & Transportation Commission
PO Box 47250
Olympia, WA 98504-7250

Subject: WAC 480-93-020 Richland Lateral Phase I Proximity Request

Dear Mr. Mayo:

Pursuant to the requirements of WAC 480-93-020 Proximity Considerations, Cascade Natural Gas Corporation (CNGC) requests to operate the proposed pipeline at pressure of 500 psig within 100 feet of existing buildings or those that are under construction. CNGC is performing this work to maintain core customer needs and to have the ability to supply necessary capacities for future growth in Richland, WA.

Proposed Scope of Work:

The proposed pipeline consists of installing approximately 10,630-feet of 12-inch steel, 450-feet of 8-inch steel, 5,980-feet of 6-inch steel pipeline and one regulator station. This will connect to the existing Southridge high-pressure pipeline that operates within a 500 MAOP and the Richland 8-inch high-pressure pipeline that operates within a 250 MAOP. The complete route of this line is depicted on the attached aerial maps located in Appendix A. This Proximity Request is for approval to operate the Richland Lateral – Phase I pipeline and pending regulator station at a 500 MAOP.

The new regulator station proposed to be installed with this line is regulator station 133 (R-133). R-133 will tie-in the new Richland Lateral to the existing 8-inch, 250 psig MAOP line. The new regulator stations and associated pipeline necessary for their installation will be designed with a minimum component rating of 720 psig and will be pressure tested to a minimum of 750 psig.

At the proposed MAOP of 500 psig, the stress level of the regulator station, pipe, and pipeline fittings will be a maximum of 16.59% of the specified minimum yield strength. Thus, the Richland Lateral Phase I section will be classified as high-pressure distribution main, not Transmission. Ten percent (10%) NDT will be performed on all newly installed pipe.

Specifications of the 12-inch, 8-inch and 6-inch pipeline and associated facilities are as follows:

- All components (valves, line stoppers, etc.) will be ANSI Class 300 with a maximum working pressure rating of 720 psig.
- All pipe and associated fittings will consist of a Y52 grade.

Proximity & Alternatives:

The Richland Lateral Phase I will be within 100 feet of 80 structures as shown in Appendix A.

Route analysis and protective measures were taken into consideration of the pipelines route and its proximity to the public and associated facilities. An alternative route was explored as detailed in Appendix B. This route was not chosen because this route alternative was within approximately 46 occurrences of buildings with the 100-foot radius of the pipeline including an elementary school and park. Phase II of the pipeline would also be of the same route along Leslie Rd which would include the same number of buildings with proximity to the pipeline for that section and it would require and upsize in pipe along that section from 6” steel to 12” steel to maintain the pipelines designed capacity output.

Closing:

CNGC respectfully requests your approval to operate the new 12” & 6” Richland high-pressure pipeline within a 500 MAOP. Construction is scheduled to begin February of 2022 upon approval of this request. If you have any questions or require additional information, feel free to contact me at (509) 734-4587 or via email at Colby.Lundstrom@mdu.com

Sincerely,

CASCADE NATURAL GAS

Colby Lundstrom 1/03/2022

Colby Lundstrom
Manager of Compliance Ops. Programs

CC: Pat Darras
Mike Schoepp
Craig Chapin

Enclosures

Appendix A - Buildings within 100-foot proximity to the pipeline and facilities.
Appendix B - Route Alternative

Appendix A

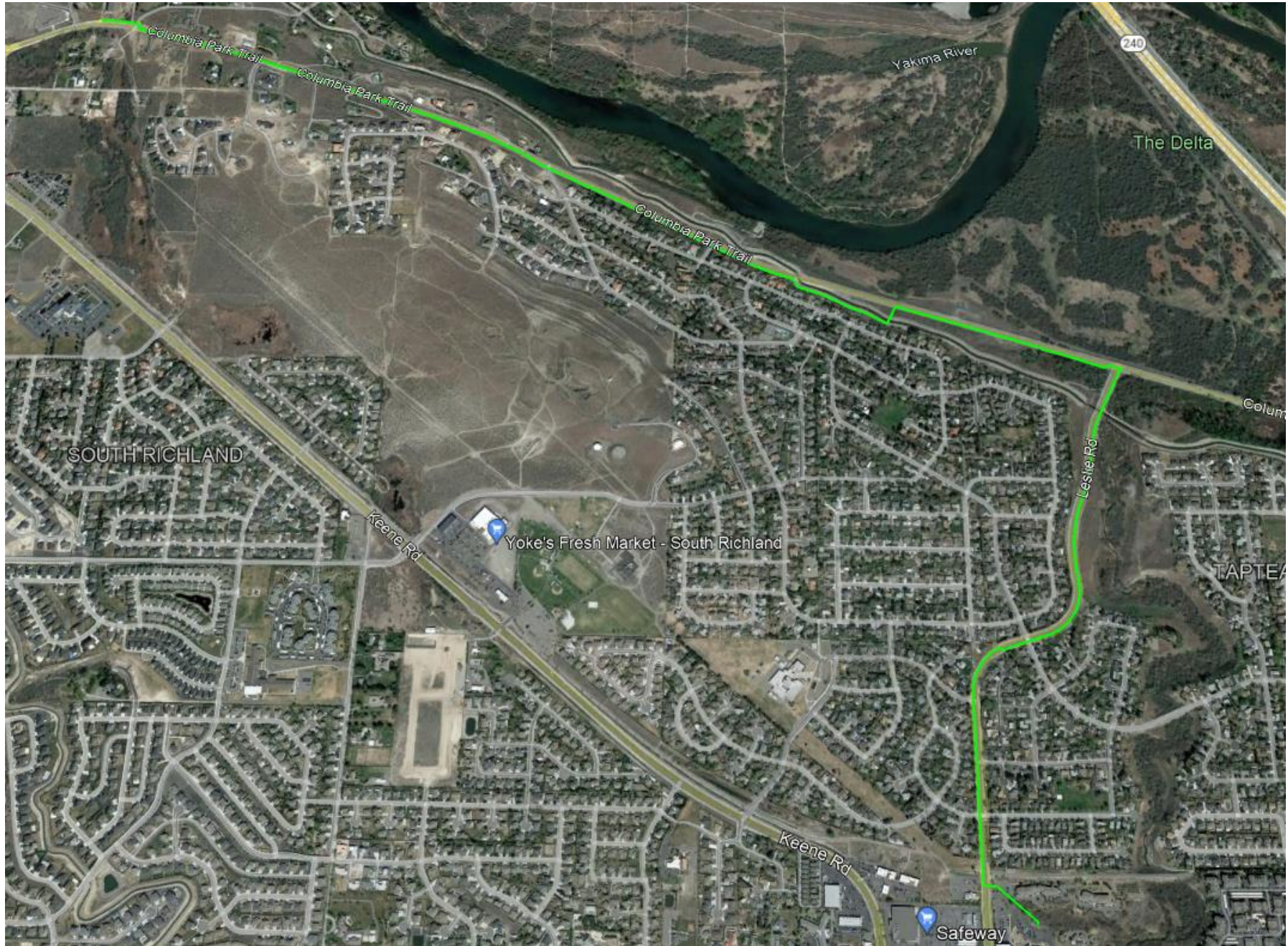


Figure 1: Overall view of the proposed Richland Lateral Phase I pipeline from the 6" 500 MAOP tie-in location (south) to the 8" 250 MAOP tie-in location (north)



Figure 2: Section of the proposed Richland HP Lateral showing its proximity to buildings 1-7 & 73 within the 100-foot boundary.



Figure 3: Section of the proposed Richland HP Lateral showing its proximity to buildings 8-29 & 74-77 within the 100-foot boundary.

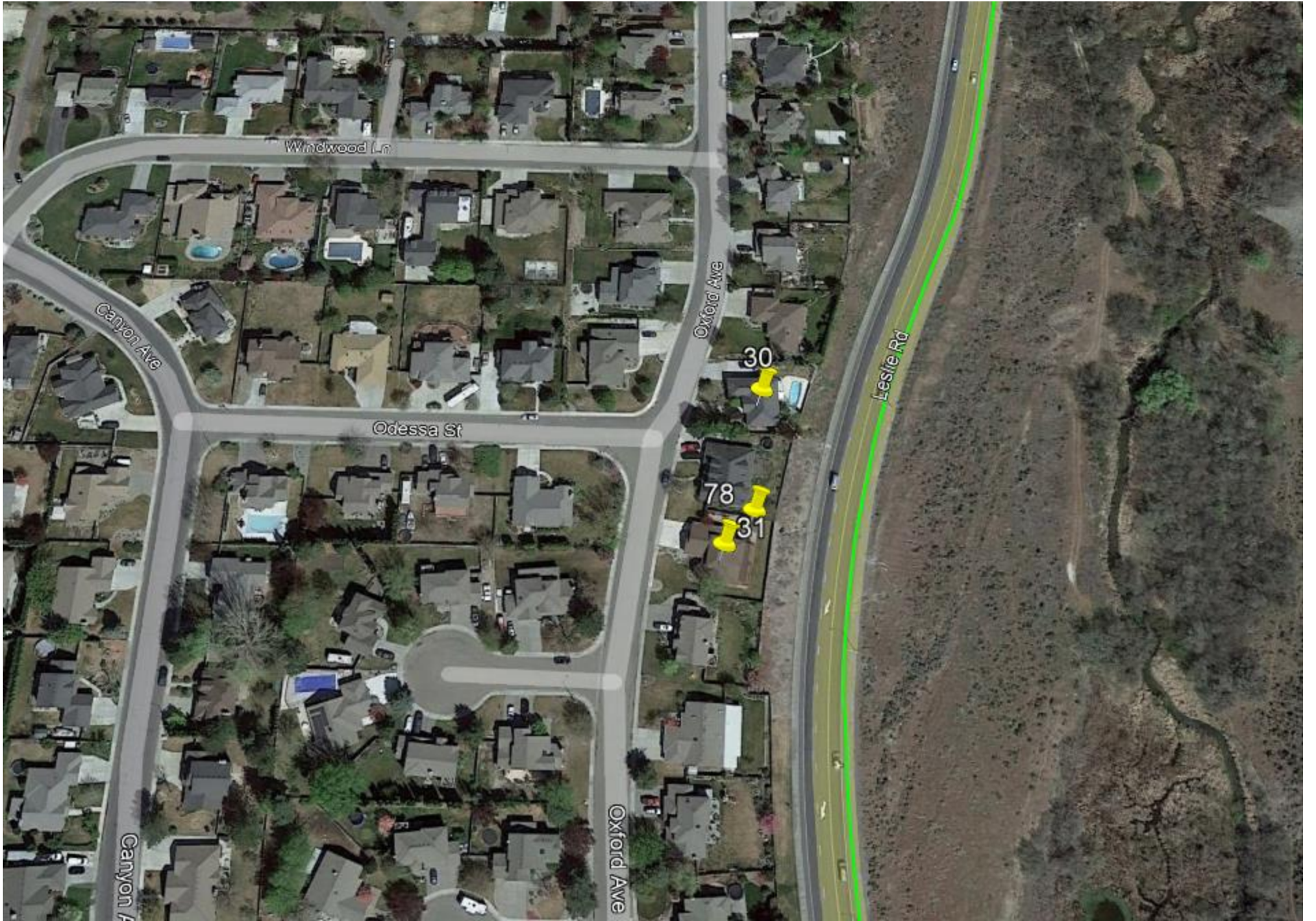


Figure 4: Section of the proposed Richland HP Lateral showing its proximity to buildings 30, 31 & 78 within the 100-foot boundary.

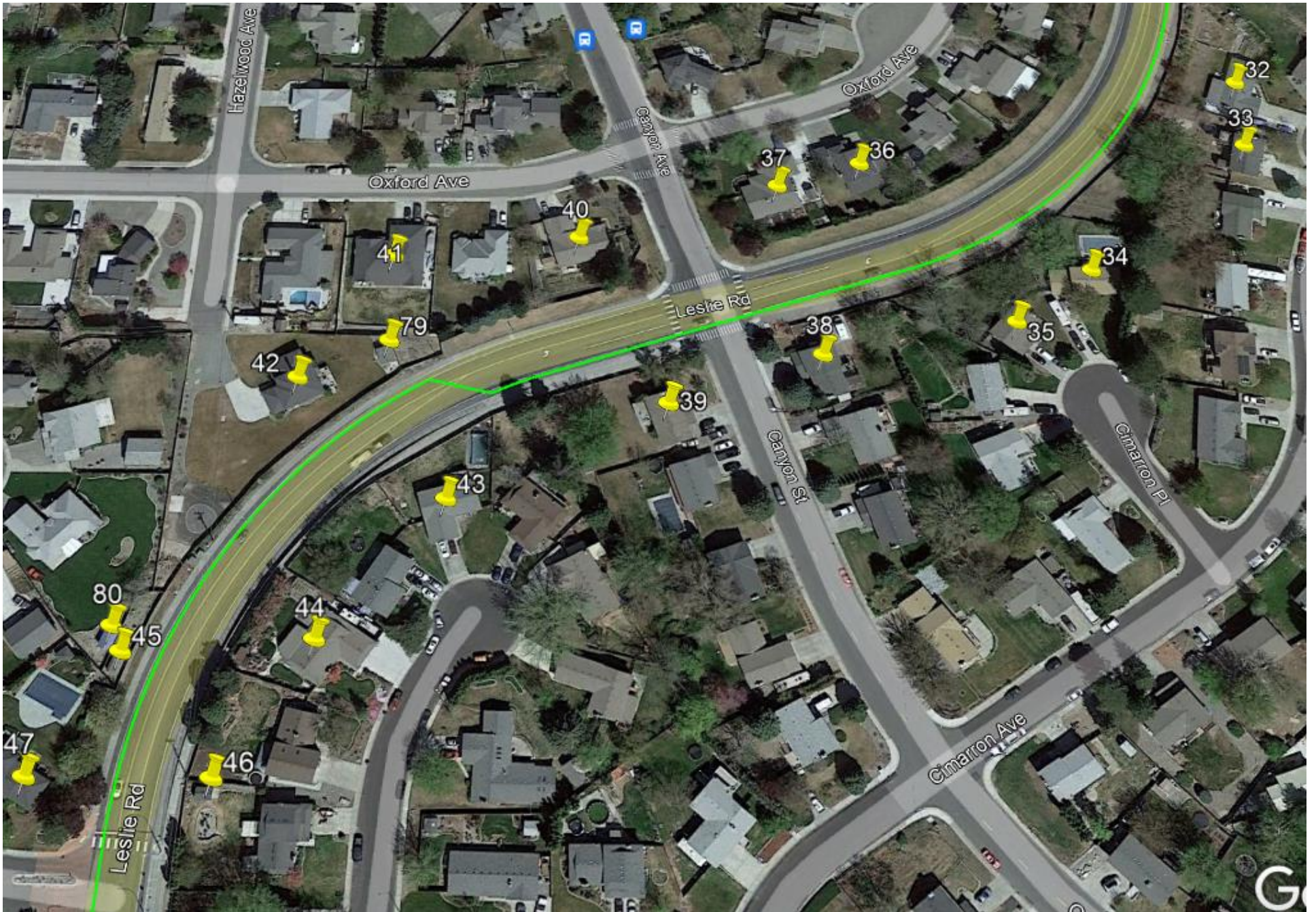


Figure 5: Section of the proposed Richland HP Lateral showing its proximity to buildings 32-47, 79 & 80 within the 100-foot boundary.



Figure 6: Section of the proposed Richland HP Lateral showing its proximity to buildings 48-70 within the 100-foot boundary.



Figure 7: Section of the proposed Richland HP Lateral showing its proximity to buildings 71 and 72 within the 100-foot boundary.

Appendix B

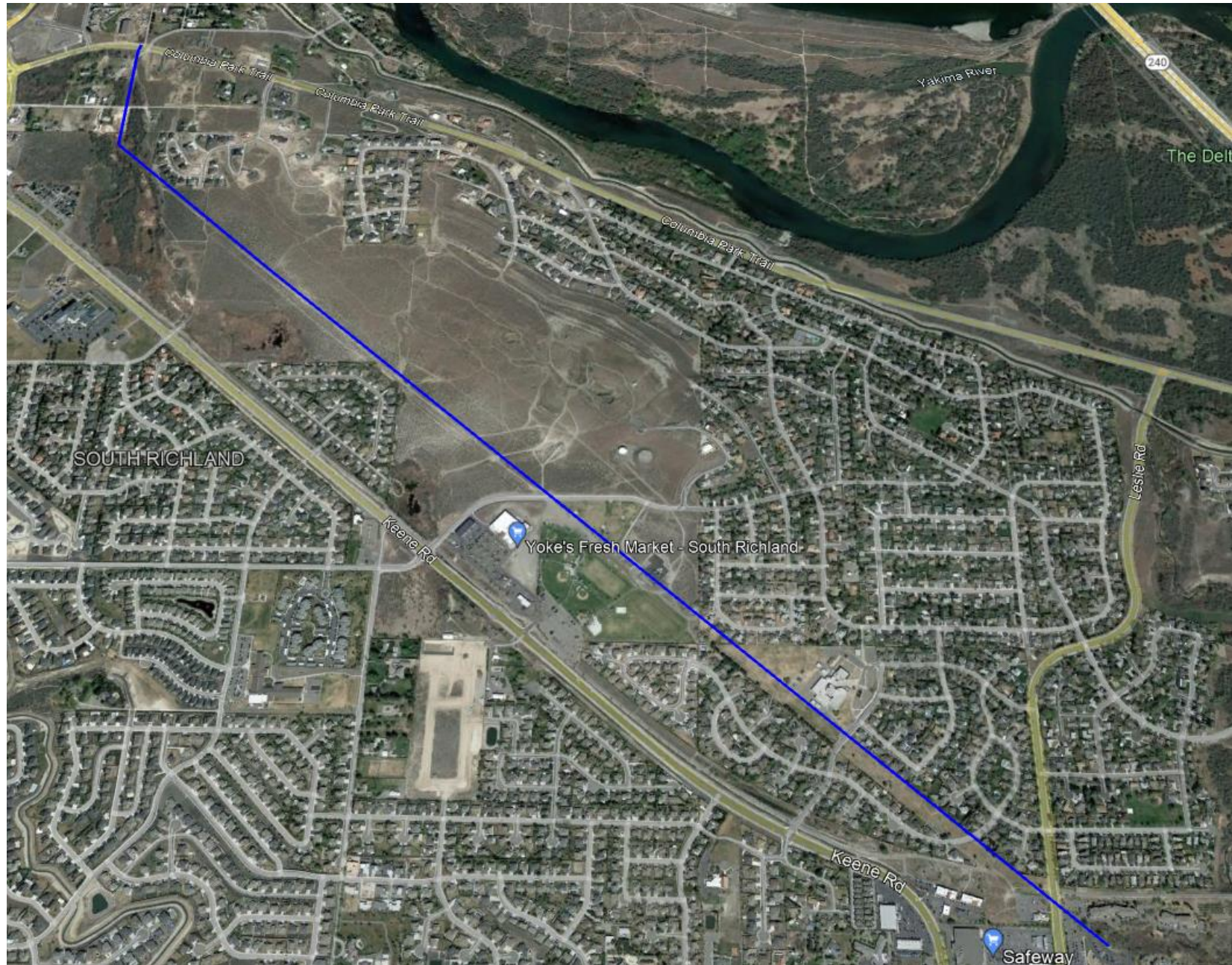


Figure 1: Alternate route consideration.