



File No. EA2021-141

CITY OF RICHLAND
Determination of Non-Significance

Description of Proposal: Richland HP Extension – Phase 1 (Leslie Road 6” HP & Columbia Park Trail 12” HP)

Proponent: Cascade Natural Gas Co.
Attn: Thomas Henderson
8113 W. Grandridge Blvd.
Kennewick, WA 99336

Location of Proposal: The project will occur primarily within the right-of-way of Columbia Park Trail from Tulip Lane to Leslie Road on the easterly terminus of the project, and within the Leslie Road right-of-way from Gage Blvd. to Columbia Park Trail on the southerly terminus of the project, within the City of Richland, Washington.

Lead Agency: City of Richland

The lead agency for this proposal has determined that it does not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. This information is available to the public on request.

() There is no comment for the DNS.

(**X**) This DNS is issued under WAC 197-11-340(2); the lead agency will not act on this proposal for fourteen days from the date of issuance.

() This DNS is issued after using the optional DNS process in WAC 197-11-355. There is no further comment period on the DNS.

Responsible Official: Mike Stevens

Position/Title: Planning Manager

Address: 625 Swift Blvd., MS #35, Richland, WA 99352

Date: December 1, 2021

Signature _____

SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals:

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the [SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS \(part D\)](#). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

A. Background [\[HELP\]](#)

1. Name of proposed project, if applicable:

Richland HP Extension – Phase I (Leslie Road 6” HP & Columbia Park Trail 12” HP)

2. Name of applicant: **Cascade Natural Gas Corporation**

3. Address and phone number of applicant and contact person:

8113 W. Grandridge Blvd, Kennewick, Wa 99336

Thomas Henderson

O: 509-734-4550

C: 509-308-1016

E: Thomas.Henderson@mdu.com

4. Date checklist prepared: **11/23/2021**

5. Agency requesting checklist: **City of Richland**

6. Proposed timing or schedule (including phasing, if applicable): **Construction is anticipated to begin January 2022, depending on material availability.**

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. **Yes, Cascade Natural Gas Corporation is planning for a future Phase 2 that includes an easterly extension of the 12" high-pressure lateral from Leslie Road across WSDOT right-of-way at SR 240 to the Edison Street Interchange vicinity.**

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. **A Cultural Resources investigation and inventory was prepared by RLR Cultural Resources LLC. The results of that conclude that the project will have no adverse effect to historic properties per 36CFR 800.4(d)(1). See attached.**

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain. **None at this time.**

10. List any government approvals or permits that will be needed for your proposal, if known. **City of Richland approval to work within City right-of-way and Columbia Irrigation District crossing approval.**

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.) **Cascade Natural Gas Corporation proposes to install 6" and 12" high-pressure pipelines to reinforce the distribution system feeding parts of Kennewick and Richland. The new pipeline will help sustain the current customer base's needs while allowing new customer growth opportunities. Future phases connecting to this proposed pipeline will also allow further benefits of the pipeline and its capacity limits. The proposed alignment has taken into account this phase and future phases' installments, economic efficiencies and mitigation to existing infrastructure and other critical areas. The pipeline will be constructed at a depth of 4 feet. All existing**

improvements impacted by the pipeline construction will be repaired and restored to pre-project conditions.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist. **Sec. 22,23,24,25, T.9N., R.30E. Columbia Park Trail from Tulip Lane to Leslie Road on the easterly terminus of the project, Leslie Road from Gage to Columbia Park Trail on the southerly terminus of the project.**

Vinity Map Attached

B. Environmental Elements [\[HELP\]](#)

1. Earth [\[help\]](#)

a. General description of the site:.

(circle one): Flat rolling, hilly, steep slopes, mountainous, other _____

b. What is the steepest slope on the site (approximate percent slope)?

The steepest slopes are located on Leslie Road between Canyon Street and Columbia Park Trail and are 5%-6% grades.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils. **The general soil type is Silty Sand (SM) or Poorly Graded Gravel with Cobbles and Sand (GP). Most of the alignment is within paved roadway limits.**

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. **No surface indications or history of unstable soils in the immediate vicinity.**

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill. **Open trench excavation is anticipated to be 5 feet deep and approximately 3 feet wide. All excavated material will be used to backfill and compact the trenches, with excess material being hauled off site for disposal. All impacted pavement, curb and gutter, and sidewalk will be replaced. Portions of the project will be directionally drilled and a slurry of mixed soil and bentonite will be produced.**

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe. **Erosion potential is very low for this project given the proposed construction methods.**

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

The majority of the project is within the limits of paved roadway that will be repaired during construction. No additional impervious surfaces are proposed.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: **Best management practices will be used to reduce and control erosion. Inlet protection will be installed at all nearby catch basins and straw wattles will be used along slopes. Local and state laws will be followed.**

2. Air [\[help\]](#)

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known. **Possible dust during construction. None anticipated after construction.**

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. **No.**

c. Proposed measures to reduce or control emissions or other impacts to air, if any: **Best management practices during construction activities.**

3. Water [\[help\]](#)

a. Surface Water: [\[help\]](#)

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. **The Yakima River is located 400 feet northeast of the nearest point on the project. Columbia Irrigation District's (CID) main canal is located within the project limits.**

Wetlands are located east of the pipeline's proposed connection at STA 0+26.22 and also at the SW intersection of Leslie Blvd. and Columbia Pt. Trail. No mitigation required pursuant to RMC 22.10.360 (h).

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans. **Work will not occur within 200 feet of the Yakima River, but will occur under or within the CID Canal during winter shutdown.**

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material. **None.**

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. **No.**

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan. **No.**

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge. **No.**

b. Ground Water: [\[help\]](#)

- 1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known. **No.**
- 2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve. **None.**

c. Water runoff (including stormwater):

- 1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe. **Any runoff from construction activities will flow to and be collected in existing catch basins and roadside swales/ditches meant for infiltration/conveyance.**
- 2) Could waste materials enter ground or surface waters? If so, generally describe. **No.**
- 3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe. **No.**

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any: **Contractor will use BMPs to control construction water runoff and tracking dirt on the streets (contractor to be required to clean the streets as necessary during construction). Existing storm drainage system within construction area will be protected and/or cleaned as required.**

4. **Plants** [\[help\]](#)

a. Check the types of vegetation found on the site:

- deciduous tree: alder, maple, aspen, other
- evergreen tree: fir, cedar, pine, other
- shrubs
- grass
- pasture
- crop or grain
- Orchards, vineyards or other permanent crops.
- wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- water plants: water lily, eelgrass, milfoil, other
- other types of vegetation

b. What kind and amount of vegetation will be removed or altered? **No vegetation will be removed or altered.**

c. List threatened and endangered species known to be on or near the site. **None.**

- d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: **None.**
- e. List all noxious weeds and invasive species known to be on or near the site. **None.**

5. Animals [\[help\]](#)

- a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.

Examples include:

birds: hawk, heron, eagle, songbirds, other:

mammals: deer, bear, elk, beaver, other:

fish: bass, salmon, trout, herring, shellfish, other _____

Hawks, herons, songbirds, and waterfowl. Salmonids are located in the Yakima River, however, no work will affect this waterbody or fish.

- b. List any threatened and endangered species known to be on or near the site. **None known.**
- c. Is the site part of a migration route? If so, explain. **No.**
- d. Proposed measures to preserve or enhance wildlife, if any: **None.**
- e. List any invasive animal species known to be on or near the site. **None known.**

6. Energy and Natural Resources [\[help\]](#)

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc. **Electricity will be used to meet the energy needs of the project beyond the normal fuels used for construction equipment.**
- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe. **No.**
- c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any: **None.**

7. Environmental Health [\[help\]](#)

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.
 - 1) Describe any known or possible contamination at the site from present or past uses. **None.**
 - 2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines

located within the project area and in the vicinity. **None.**

- 3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project. **None.**
- 4) Describe special emergency services that might be required. **Only those services provided by the City.**
- 5) Proposed measures to reduce or control environmental health hazards, if any: **The Contractor will be required to provide all personnel with person protective equipment (PPE) and comply with all work-site safety requirements. Contractor will have a Spill Prevention Control & Containment (SPCC) plan.**

b. Noise

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)? **Area noise will not affect the project.**
- 2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site. **Typical construction related noise of short term duration will happen during construction. Included sources of noises would be excavators, dump trucks, front loaders, welders, and other types of typical construction equipment as needed. Typical hours between 7am and 6pm.**
- 3) Proposed measures to reduce or control noise impacts, if any: **The Contractor will be required to follow the City's noise ordinance (RMC 9.16) during construction – typically construction cannot start before 7am.**

8. Land and Shoreline Use [\[help\]](#)

- a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe. **Public Right of Way (streets), Parks, Recreation, Open Space.**
- b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use? **No.**
 - 1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how: **No.**
- c. Describe any structures on the site. **Roadway, Pedestrian facilities, parking lots, irrigation canal, and an elevated irrigation flume.**
- d. Will any structures be demolished? If so, what? **No.**

- e. What is the current zoning classification of the site? **Commercial Winery (CW), Single Family Residential (R-1-10, R-1-12), Natural Open Space (NOS), Agricultural (Ag), Parks & Public Facilities (PPF), General Business (C-3) Neighborhood Retail Business (C-1), Limited Business (C-LB), and Multiple Family Residential (R-3).**
- f. What is the current comprehensive plan designation of the site? **Residential, Commercial, Open Space**
- g. If applicable, what is the current shoreline master program designation of the site? **Natural and Recreation Conservatory**
- h. Has any part of the site been classified as a critical area by the city or county? If so, specify. **Yes, Some portions of the project area have been identified as a geological hazard.**
- i. Approximately how many people would reside or work in the completed project? **None.**
- j. Approximately how many people would the completed project displace? **None.**
- k. Proposed measures to avoid or reduce displacement impacts, if any: **None.**
- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: **None.**
- m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any: **None.**

9. Housing [\[help\]](#)

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. **None.**
- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. **None.**
- c. Proposed measures to reduce or control housing impacts, if any: **None.**

10. Aesthetics [\[help\]](#)

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed? **None.**
- b. What views in the immediate vicinity would be altered or obstructed? **None.**
- b. Proposed measures to reduce or control aesthetic impacts, if any: **None.**

11. Light and Glare [\[help\]](#)

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur? **None.**

b. Could light or glare from the finished project be a safety hazard or interfere with views? **No.**

c. What existing off-site sources of light or glare may affect your proposal? **None.**

d. Proposed measures to reduce or control light and glare impacts, if any: **None.**

12. Recreation [\[help\]](#)

a. What designated and informal recreational opportunities are in the immediate vicinity?
Parking areas, Sidewalks, and Pathways.

b. Would the proposed project displace any existing recreational uses? If so, describe. **No.**

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: **None.**

13. Historic and cultural preservation [\[help\]](#)

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers ? If so, specifically describe. **None.**

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources. **No.**

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc. **A Cultural Resources investigation was performed by RLR Cultural Resources, LLC and a report prepared. Results of that investigation conclude that the project will have no adverse effect to historic properties per 36CFR 800.4(d)(1). See attached.**

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required. **If any cultural or historic resources are discovered during excavation activities all work shall cease and a qualified archaeologists will be contacted for monitoring and coordination with Tribal Authorities.**

14. Transportation [\[help\]](#)

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any. **The project will be confined to Columbia Park Trail and Leslie Road rights-of-way, and one crossing of the Columbia Irrigation District canal at the Columbia Park Trail crossing. Work will occur along these streets for the duration of the project.**

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop? **Yes, there are**

eastbound and westbound transit stops along Columbia Park Trail and northbound and southbound transit stops along Leslie Road.

- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate? **The Project will not create or remove any parking spaces.**
- d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private). **No, all construction will be within existing improvements and impacted facilities will be repaired or replaced.**
- e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe. **No.**
- f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates? **The completed project will have no impact on vehicular trips.**
- g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe. **No.**
- h. Proposed measures to reduce or control transportation impacts, if any: **Traffic control will be setup to clearly delineate work zones and to safely transition traffic. A combination of shoulder closures, lane closures, and work zone closures using flaggers will be used throughout the project.**

15. Public Services [\[help\]](#)

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe. **No, proposed need will be the same as existing need.**
- b. Proposed measures to reduce or control direct impacts on public services, if any. **None.**

16. Utilities [\[help\]](#)

- a. Circle utilities currently available at the site:
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other irrigation
- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed. **Natural Gas pipelines. See descriptions in previous sections.**

C. Signature [\[HELP\]](#)

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature:  _____

Name of signee Thomas Henderson

Position and Agency/Organization Engineer II, Cascade Natural Gas Corporation

Date Submitted: 12/29/11

RICHLAND HP EXTENSION - PHASE I

LESLIE RD 6" HP & COLUMBIA PARK TRAIL 12" HP



*Richland HP Extension - Phase I
Leslie Rd. 6" HP & Col. Park Trail 12" HP
Richland, WA
Benton County
Vicinity Map*

Sec. 22,23,24,25, T.9N., R.30E.

RICHLAND HP EXTENSION - PHASE I

LESLIE RD 6" HP & COLUMBIA PARK TRAIL 12" HP

INDEX OF DRAWINGS	
GENERAL	
SHEET NUMBER	SHEET TITLE
C1	COVER SHEET
C2	SHEET INDEX PLAN
M1	MATERIAL LIST & NOTES
SWWP1	STORMWATER PROTECTION PLAN

PLANS & DETAILS	
SHEET NUMBER	SHEET TITLE - STATION
PP0	PLAN AND PROFILE - LESLIE RD STA. XX+XX TO XX+XX
PP1	PLAN AND PROFILE - LESLIE RD STA. XX+XX TO XX+XX
PP2	PLAN AND PROFILE - LESLIE RD STA. XX+XX TO XX+XX
PP3	PLAN AND PROFILE - LESLIE RD STA. XX+XX TO XX+XX
PP4	PLAN AND PROFILE - LESLIE RD STA. XX+XX TO XX+XX
PP5	PLAN AND PROFILE - LESLIE RD STA. XX+XX TO XX+XX
PP6	PLAN AND PROFILE - LESLIE RD STA. 31+75 TO 36+00
PP7	PLAN AND PROFILE - LESLIE RD STA. 36+00 TO 41+75
PP8	PLAN AND PROFILE - LESLIE RD STA. 41+75 TO 47+75
PP9	PLAN AND PROFILE - LESLIE RD STA. 47+75 TO 53+75
PP10	PLAN AND PROFILE - LESLIE RD STA. 53+75 TO 59+70
PP11	PLAN AND PROFILE - COL. PARK TRAIL STA. 0+00 TO 400+00
	PLAN AND PROFILE - COL. PARK TRAIL STA. 1000+00 TO 1001+00
PP12	PLAN AND PROFILE - COL. PARK TRAIL STA. 1001+00 TO 1006+75
PP13	PLAN AND PROFILE - COL. PARK TRAIL STA. 1006+75 TO 1012+50
PP14	PLAN AND PROFILE - COL. PARK TRAIL STA. 1012+50 TO 1018+50
PP15	PLAN AND PROFILE - COL. PARK TRAIL STA. 1018+50 TO 1024+50
PP16	PLAN AND PROFILE - COL. PARK TRAIL STA. 1024+50 TO 1030+50
PP17	PLAN AND PROFILE - COL. PARK TRAIL STA. 1030+50 TO 1036+50
PP18	PLAN AND PROFILE - COL. PARK TRAIL STA. 1036+50 TO 1042+50
PP19	PLAN AND PROFILE - COL. PARK TRAIL STA. 1042+50 TO 1048+00
PP20	PLAN AND PROFILE - COL. PARK TRAIL STA. 1048+00 TO 1054+00
PP21	PLAN AND PROFILE - COL. PARK TRAIL STA. 1054+00 TO 1060+00
PP22	PLAN AND PROFILE - COL. PARK TRAIL STA. 1060+00 TO 1066+00
PP23	PLAN AND PROFILE - COL. PARK TRAIL STA. 1066+00 TO 1072+00
PP24	PLAN AND PROFILE - COL. PARK TRAIL STA. 1072+00 TO 1077+75
PP25	PLAN AND PROFILE - COL. PARK TRAIL STA. 1077+75 TO 1080+50
PP26	PLAN AND PROFILE - COL. PARK TRAIL STA. 1080+50 TO 1086+00
PP27	PLAN AND PROFILE - COL. PARK TRAIL STA. 1086+00 TO 1091+50
PP28	PLAN AND PROFILE - COL. PARK TRAIL STA. 1091+50 TO 1096+50
PP29	PLAN AND PROFILE - COL. PARK TRAIL STA. 1096+50 TO 1101+50
PP30	PLAN AND PROFILE - COL. PARK TRAIL STA. 1101+50 TO 1106+50
D1	DETAIL SHEET
D2	DETAIL SHEET
D3	DETAIL SHEET
TCP1	TRAFFIC CONTROL PLAN
TCP2	TRAFFIC CONTROL PLAN
TCP3	TRAFFIC CONTROL PLAN
TCP4	TRAFFIC CONTROL PLAN

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 PH: 509.734.4550

WALTER ALAN NELSON
 PH: 509.378.5935

PERMITS:
 CITY OF RICHLAND
 COLUMBIA IRRIGATION DISTRICT
 U.S. ARMY CORPS OF ENGINEERS

EASEMENTS:
 TBD

CONTRACTOR:
 TBD

START DATE:
 COMPLETION DATE:

LEGEND		
1-1/4 STL	1-1/4 STL	GAS-1-1/4STL (PROP)
1-1/4 STL	1-1/4 STL	GAS-1-1/4STL (EXST)
1-1/4 PE	1-1/4 PE	GAS-1-1/4PE (PROP)
1-1/4 PE	1-1/4 PE	GAS-1-1/4PE (EXST)
3/4 STL	3/4 STL	GAS-1-1/4STL (PROP)
3/4 STL	3/4 STL	GAS-3/4STL (EXST)
3/4 PE	3/4 PE	GAS-3/4PE (PROP)
3/4 PE	3/4 PE	GAS-3/4PE (EXST)
1/2 STL	1/2 STL	GAS-1/2STL (PROP)
1/2 STL	1/2 STL	GAS-1/2STL (EXST)
1/2 PE	1/2 PE	GAS-1/2PE (PROP)
1/2 PE	1/2 PE	GAS-1/2PE (EXST)
1ST	1ST	GAS-1ST (PROP)
1ST	1ST	GAS-1ST (EXST)
1PE	1PE	GAS-1PE (PROP)
1PE	1PE	GAS-1PE (EXST)
2ST	2ST	GAS-2ST (PROP)
2ST	2ST	GAS-2ST (EXST)
2PE	2PE	GAS-2PE (PROP)
2PE	2PE	GAS-2PE (EXST)
3ST	3ST	GAS-3ST (PROP)
3ST	3ST	GAS-3ST (EXST)
4ST	4ST	GAS-4ST (PROP)
4ST	4ST	GAS-4ST (EXST)
4PE	4PE	GAS-4PE (PROP)
4PE	4PE	GAS-4PE (EXST)
6ST	6ST	GAS-6ST (PROP)
6ST	6ST	GAS-6ST (EXST)
6PE	6PE	GAS-6PE (PROP)
6PE	6PE	GAS-6PE (EXST)
8ST	8ST	GAS-8ST (PROP)
8ST	8ST	GAS-8ST (EXST)
8PE	8PE	GAS-8PE (PROP)
8PE	8PE	GAS-8PE (EXST)
10ST	10ST	GAS-10ST (PROP)
10ST	10ST	GAS-10ST (EXST)
10PE	10PE	GAS-10PE (PROP)
10PE	10PE	GAS-10PE (EXST)
12ST	12ST	GAS-12ST (PROP)
12ST	12ST	GAS-12ST (EXST)
12PE	12PE	GAS-12PE (PROP)
12PE	12PE	GAS-12PE (EXST)
		LAKE/POND WATER EDGE
		RAILROAD
		RIVERBANK/ShORELINE
		CENTERLINE
		EASEMENT
		EDGE OF PAVEMENT
		DIRT ROAD
X	X	FENCE (EXST)
X	X	FENCE (PROPOSED)
		PARCEL LINE
		RIGHT-OF-WAY
TV	TV	CABLE TELEVISION (BURIED)
FO	FO	FIBER OPTIC LINE (BURIED)
T	T	TELEPHONE (BURIED)
SC	SC	TRAFFIC SIGNAL CONDUIT LINE
OHP	OHP	POWER (OVERHEAD)
P	P	POWER (BURIED)
UT	UT	UTILITY (BURIED)
S	S	SANITARY SEWER
FM	FM	SANITARY SEWER (FORCE MAIN)
SD	SD	STORM DRAINAGE
IRR	IRR	IRRIGATION
W	W	WATER
400		MAJOR CONTOUR
398		MINOR CONTOUR

LEGEND	
EXISTING	PROPOSED GAS FACILITIES
J	CAP/PLUG
□	METER
X	VALVE
○	BOTTOM-OUT LINE STOPPER
○	SIDE-OUT LINE STOPPER
45°	45° ELBOW
90°	90° ELBOW
T	TEE
▼	REDUCER
○	INSULATING JOINT
○	ODORIZER
○	REGULATOR
○	SAV-A-VALVE
○	PIPELINE MARKER
○	GUARD POST (BOLLARD)
○	SANITARY SEWER CLEAN OUT
○	SANITARY SEWER MANHOLE
○	STORM DRAIN MANHOLE
○	STORM DRAIN CATCHBASIN
○	WATER VALVE
○	FIRE HYDRANT
○	WATER MANHOLE
○	WATER IRRIGATION VALVE BOX
○	WATER METER
○	POWER METER
○	POWER MANHOLE
○	POWER POLE
○	POWER JUNCTION BOX
○	POWER VAULT
○	POWER TRANSFORMER
○	COMMUNICATION VAULT
○	TELEPHONE JUNCTION BOX
○	TELEPHONE RISER
○	TELEPHONE VAULT
○	UTILITY POLE ANCHOR
○	LIGHT POLE
○	SIGN
○	DECIDUOUS TREE
○	CONIFEROUS TREE



PRELIMINARY

NO	REVISION	BY	DATE

Approved For Construction
 By: _____ Date: _____
 TITLE: _____
 Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION
 8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON
 CAD Review: M BITTON
 Engineer: T HENDERSON
 Design Review: R SORENSEN
 Parent Work Order #: 279575
 Work Order Number: 279575
 Drawing No: 237441020197

Richland HP Extension - Phase I
 Leslie Rd. 6" HP & Col. Park Trail 12" HP
 Richland, WA
 Benton County
 Cover Sheet

C1
 1 OF 42

Sec 25 Town 9N Rng 28E



PRELIMINARY

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Scale: 1"=20'
 Grid #: 6-V
 Date: 11/23/21
 Richland HP Extension - Phase I
 Leslie Rd. 6" HP & Col. Park Trail 12" HP
 Richland, WA
 Benton County
 Sheet Index Plan
 Sec 25 Town 9N Rng 28E

C2
 2 OF 42

MATERIAL LIST

ITEM #	QUANTITY	AS-BUILT QTY	PART NO.	DESCRIPTION
1	11,000		PFBE-805X52	12" X 0.375" W.T., FBE COATED STEEL PIPE, GRADE X-52, API 5L, ERW, P.O.#
2	0		PFBE-810X52	12" X 0.375" W.T., FBE & ARO COATED STEEL PIPE, GRADE X-52, API 5L, P.O.#
3	4		EL-802X52	12" 90° WELD ELBOW, STD. WT., GRADE Y52
4	7		EL-800X52	12" 45° WELD ELBOW, STD. WT., GRADE Y52
5	2		TE-783X52	12"X12"X6" WELD TEE, STD. WT., GRADE Y52
6	2		CA-801X52	12" STD. WT. WELD CAP GRADE Y52
7	1		VA-780	12" BALLOMAX BALL VALVE, ANSI-300
8	6,000		PFBE-653X52	6" X 0.280" W.T., FBE COATED STEEL PIPE, GRADE X-52, API 5L, ERW, P.O.#
9	0		PFBE-651X52	6" X 0.280" W.T., FBE & ARO COATED STEEL PIPE, GRADE X-52, API 5L, ERW, P.O.#
10	2		EL-657X52	6" 90° WELD ELBOW, STD. WT., GRADE Y52
11	7		EL-656X52	6" 45° WELD ELBOW, STD. WT., GRADE Y52
12	0		CA-651X52	6" WELD CAP, STD. WT., GRADE Y52
13	2		VA-677	6" BALLOMAX WXW BALL VALVE FIG #6BMW74ORP, ANSI-300
14	3		NP-380	4" SAV-A-VALVE NIPPLE FIG. #H-17496 (720 PSIG)
15	4		H-36	AMTREK ROADWAY VALVE BOX #5-155-24
16	4		H-210	HIGH HEAD EXTENSION KIT FOR WRENCH OPERATED BALL VALVES
17	3		SP-708	8" MUELLER THIN WALL BOTTOM OUT LINSTOPPER FIG. #H-17281 (720 PSIG)
18	5		EL-701X52	8" 90° WELD ELBOW, STD. WT., GRADE Y52
19	1		TE-701X52	8"X8"X8" WELD TEE, STD. WT., GRADE Y52
20	400		PFBE-710X52	8" X 0.250" W.T., FBE COATED STEEL PIPE, GRADE X-52, API 5L, ERW, P.O.#
21	1		VA-716	8" BALLOMAX WXW BALL VALVE FIG #8BMW74ORP, ANSI-300
22	1		CP-717	8" X .322", ANSI 300, ZUNT MONOLITHIC INSULATING JOINT
23	2		NP-355	8" WELD CAP, STD. WT., GRADE Y52
24	3		NP-355	2" SAV-A-VALVE NIPPLE FIG. #H-17491 WITH STEEL CAP (1440 PSIG)

GENERAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH CASCADE NATURAL GAS CORPORATION PROCEDURES AND ALL BENTON COUNTY STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL SAFETY STANDARDS AND REQUIREMENTS AS SET FORTH BY OSHA, WISHA, AND THE STATE OF WASHINGTON DEPARTMENT OF LABOR AND INDUSTRIES.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE BENTON COUNTY STANDARDS.
- ALL APPROVALS AND PERMITS REQUIRED BY BENTON COUNTY SHALL BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL PUBLIC INFRASTRUCTURE CONSTRUCTION DEFICIENCIES FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY BENTON COUNTY.
- CONTRACTOR SHALL TAKE ANY NECESSARY MEANS TO KEEP FROM TRACKING MUD AND DEBRIS OUT ONTO THE EXISTING STREETS, AND SHALL ALSO KEEP MUD AND ANY OTHER DEBRIS FROM THE SITE FROM ENTERING THE EXISTING PUBLIC STORM DRAINAGE SYSTEM.
- SURFACE TREATMENT FOR THE PROPOSED SITE RESTORATION OUTSIDE OF BENTON COUNTY ROADWAY SHALL BE HYDROSEEDDED.
- A PRECONSTRUCTION MEETING SHALL BE HELD WITH BENTON COUNTY PRIOR TO THE START OF CONSTRUCTION. A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN TO BENTON COUNTY.
- CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. CONTRACTOR SHALL VERIFY THE LOCATIONS PRIOR TO CONSTRUCTION BY CALLING 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.
- ALL ASPHALT REMOVAL, COMPACTION, AND RESTORATIONS SHALL BE IN ACCORDANCE WITH BENTON COUNTY STANDARDS.
- A TRAFFIC CONTROL PLAN SHALL BE IN ACCORDANCE WITH MUTCD STANDARDS OR AS SPECIFIED BY THE CITY/COUNTY ENGINEER. ALL IMPACTS TO LOCAL TRAFFIC SHALL BE COORDINATED WITH BENTON COUNTY AT LEAST ONE WEEK PRIOR TO SAID IMPACT.
- IT IS CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL EMERGENCY SERVICES (FIRE, POLICE, ETC.) IF ROUTES OR OTHER ACCESSES ARE OBSTRUCTED.
- CONTRACTOR SHALL RESTORE WORK AREA TO SAME OR BETTER CONDITION UNLESS OTHERWISE APPROVED OR SPECIFIED BY BENTON COUNTY.
- CONTRACTOR IS PERMITTED TO WORK WITHIN THE CITY/COUNTY RIGHT-OF-WAY OR ON BENTON COUNTY PROPERTY. IT IS CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF THE RIGHT-OF-WAY.
- CONTRACTOR SHALL NOTIFY AND WORK WITH ALL AFFECTED PROPERTY OWNERS. CASCADE SHALL PROVIDE BENTON COUNTY WITH EMERGENCY TELEPHONE NUMBERS AT THE TIME OF THE PRE-CONSTRUCTION MEETING AND SHALL SUPPLY A FOREMAN ON-SITE AT ALL TIMES.
- BENTON COUNTY UTILITY SERVICE LINES BROKEN ON PRIVATE PROPERTY SHALL BE REPAIRED IMMEDIATELY BY CONTRACTOR. MARKED CITY SERVICE LINES BROKEN IN THE CITY/COUNTY RIGHT-OF-WAY SHALL BE REPAIRED BY BENTON COUNTY, AND CONTRACTOR WILL BE BILLED FOR THE REPAIR WORK.

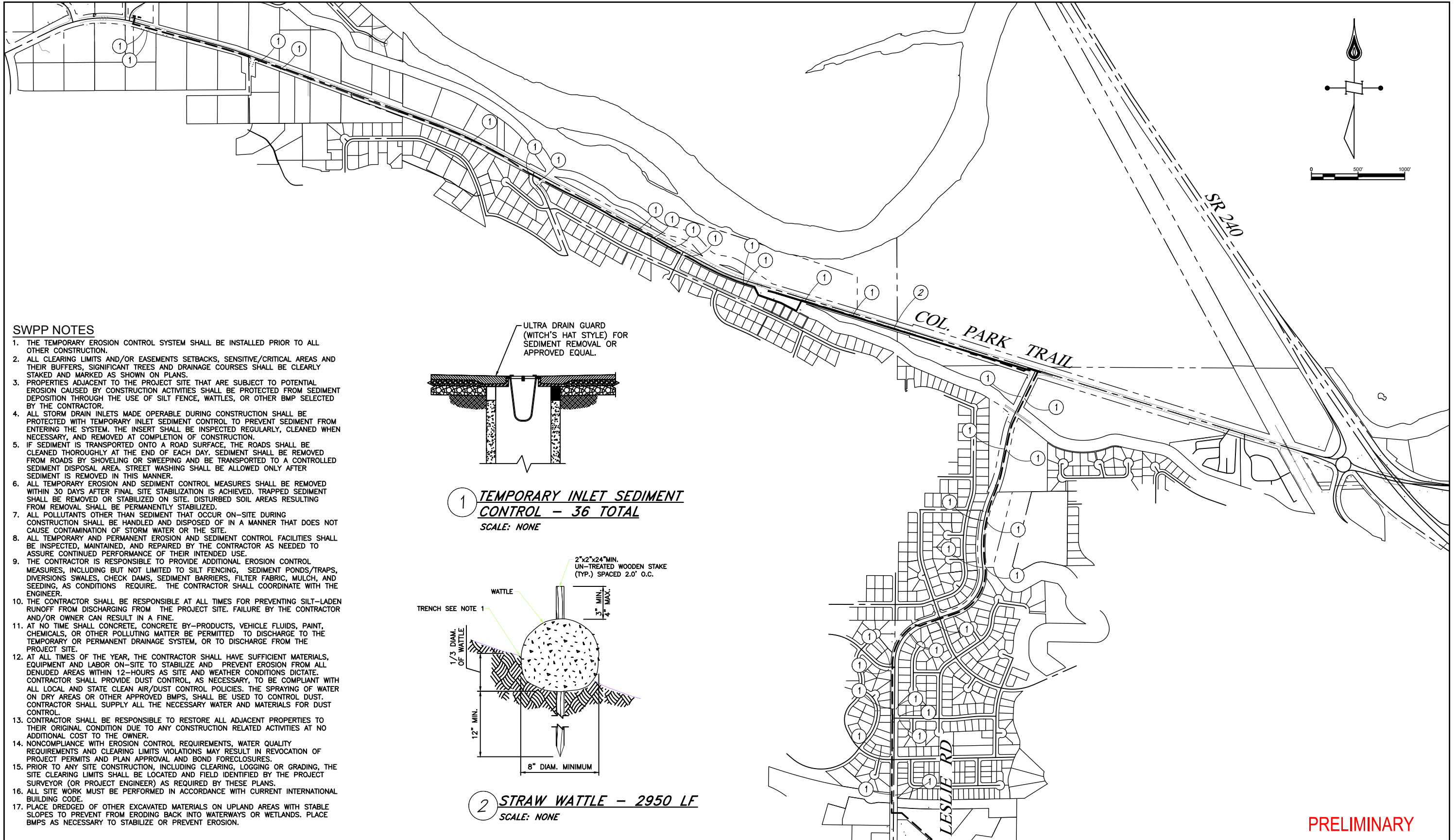
CALL BEFORE YOU DIG:
UTILITIES UNDERGROUND
LOCATION CENTER
811

CONTRACTOR TO VERIFY SIZE, TYPE AND
LOCATION OF EXISTING UTILITIES PRIOR TO
CONSTRUCTION. NOTIFY PROJECT ENGINEER
IMMEDIATELY IF CONFLICTS ARISE.

PRELIMINARY

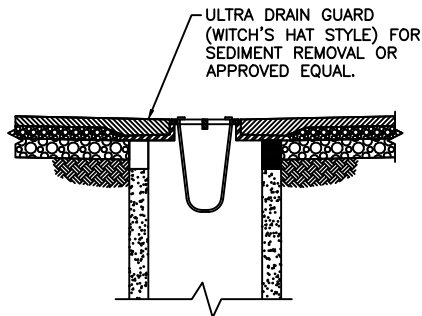
PRELIMINARY

NO	REVISION	BY	DATE	Approved For Construction By: _____ Date: _____ TITLE: _____ Approval Expires: _____ Date: _____	CASCADE NATURAL GAS CORPORATION 8113 W Grandridge Blvd Kennewick, WA 99336	CAD Tech: M WILKINSON CAD Review: M BITTON Engineer: T HENDERSON Design Review: R SORENSEN Parent Work Order #: 279575 Work Order Number: 279575 Drawing No: 237441020197	Scale: 1"=20' Grid #: 6-V Date: 11/23/21	Richland HP Extension - Phase I Leslie Rd. 6" HP & Col. Park Trail 12" HP Richland, WA Benton County Material List & Notes Sec 25 Town 9N Rng 28E	M1 3 OF 42
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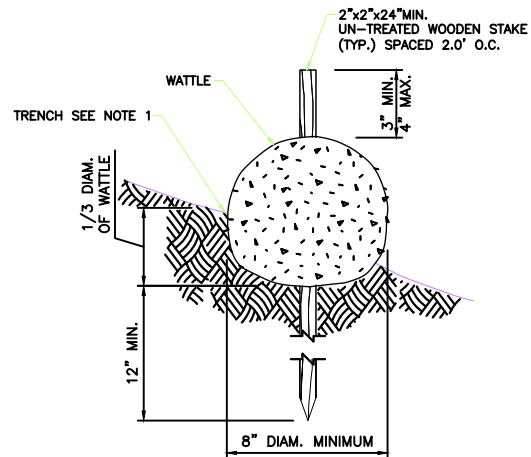


SWPP NOTES

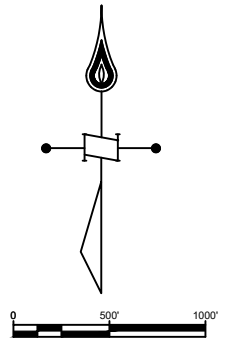
1. THE TEMPORARY EROSION CONTROL SYSTEM SHALL BE INSTALLED PRIOR TO ALL OTHER CONSTRUCTION.
2. ALL CLEARING LIMITS AND/OR EASEMENTS SETBACKS, SENSITIVE/CRITICAL AREAS AND THEIR BUFFERS, SIGNIFICANT TREES AND DRAINAGE COURSES SHALL BE CLEARLY STAKED AND MARKED AS SHOWN ON PLANS.
3. PROPERTIES ADJACENT TO THE PROJECT SITE THAT ARE SUBJECT TO POTENTIAL EROSION CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION THROUGH THE USE OF SILT FENCE, WATTLES, OR OTHER BMP SELECTED BY THE CONTRACTOR.
4. ALL STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED WITH TEMPORARY INLET SEDIMENT CONTROL TO PREVENT SEDIMENT FROM ENTERING THE SYSTEM. THE INSERT SHALL BE INSPECTED REGULARLY, CLEANED WHEN NECESSARY, AND REMOVED AT COMPLETION OF CONSTRUCTION.
5. IF SEDIMENT IS TRANSPORTED ONTO A ROAD SURFACE, THE ROADS SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR SWEEPING AND BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
6. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.
7. ALL POLLUTANTS OTHER THAN SEDIMENT THAT OCCUR ON-SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORM WATER OR THE SITE.
8. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSPECTED, MAINTAINED, AND REPAIRED BY THE CONTRACTOR AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED USE.
9. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ADDITIONAL EROSION CONTROL MEASURES, INCLUDING BUT NOT LIMITED TO SILT FENCING, SEDIMENT PONDS/TRAPS, DIVERSIONS SWALES, CHECK DAMS, SEDIMENT BARRIERS, FILTER FABRIC, MULCH, AND SEEDING, AS CONDITIONS REQUIRE. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR PREVENTING SILT-LADEN RUNOFF FROM DISCHARGING FROM THE PROJECT SITE. FAILURE BY THE CONTRACTOR AND/OR OWNER CAN RESULT IN A FINE.
11. AT NO TIME SHALL CONCRETE, CONCRETE BY-PRODUCTS, VEHICLE FLUIDS, PAINT, CHEMICALS, OR OTHER POLLUTING MATTER BE PERMITTED TO DISCHARGE TO THE TEMPORARY OR PERMANENT DRAINAGE SYSTEM, OR TO DISCHARGE FROM THE PROJECT SITE.
12. AT ALL TIMES OF THE YEAR, THE CONTRACTOR SHALL HAVE SUFFICIENT MATERIALS, EQUIPMENT AND LABOR ON-SITE TO STABILIZE AND PREVENT EROSION FROM ALL DENUDED AREAS WITHIN 12-HOURS AS SITE AND WEATHER CONDITIONS DICTATE. CONTRACTOR SHALL PROVIDE DUST CONTROL, AS NECESSARY, TO BE COMPLIANT WITH ALL LOCAL AND STATE CLEAN AIR/DUST CONTROL POLICIES. THE SPRAYING OF WATER ON DRY AREAS OR OTHER APPROVED BMPS, SHALL BE USED TO CONTROL DUST. CONTRACTOR SHALL SUPPLY ALL THE NECESSARY WATER AND MATERIALS FOR DUST CONTROL.
13. CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE ALL ADJACENT PROPERTIES TO THEIR ORIGINAL CONDITION DUE TO ANY CONSTRUCTION RELATED ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
14. NONCOMPLIANCE WITH EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS AND CLEARING LIMITS VIOLATIONS MAY RESULT IN REVOCATION OF PROJECT PERMITS AND PLAN APPROVAL AND BOND FORECLOSURES.
15. PRIOR TO ANY SITE CONSTRUCTION, INCLUDING CLEARING, LOGGING OR GRADING, THE SITE CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR (OR PROJECT ENGINEER) AS REQUIRED BY THESE PLANS.
16. ALL SITE WORK MUST BE PERFORMED IN ACCORDANCE WITH CURRENT INTERNATIONAL BUILDING CODE.
17. PLACE DREDGED OF OTHER EXCAVATED MATERIALS ON UPLAND AREAS WITH STABLE SLOPES TO PREVENT FROM ERODING BACK INTO WATERWAYS OR WETLANDS. PLACE BMPS AS NECESSARY TO STABILIZE OR PREVENT EROSION.



1 **TEMPORARY INLET SEDIMENT CONTROL - 36 TOTAL**
SCALE: NONE



2 **STRAW WATTLE - 2950 LF**
SCALE: NONE



PRELIMINARY

NO	REVISION	BY	DATE

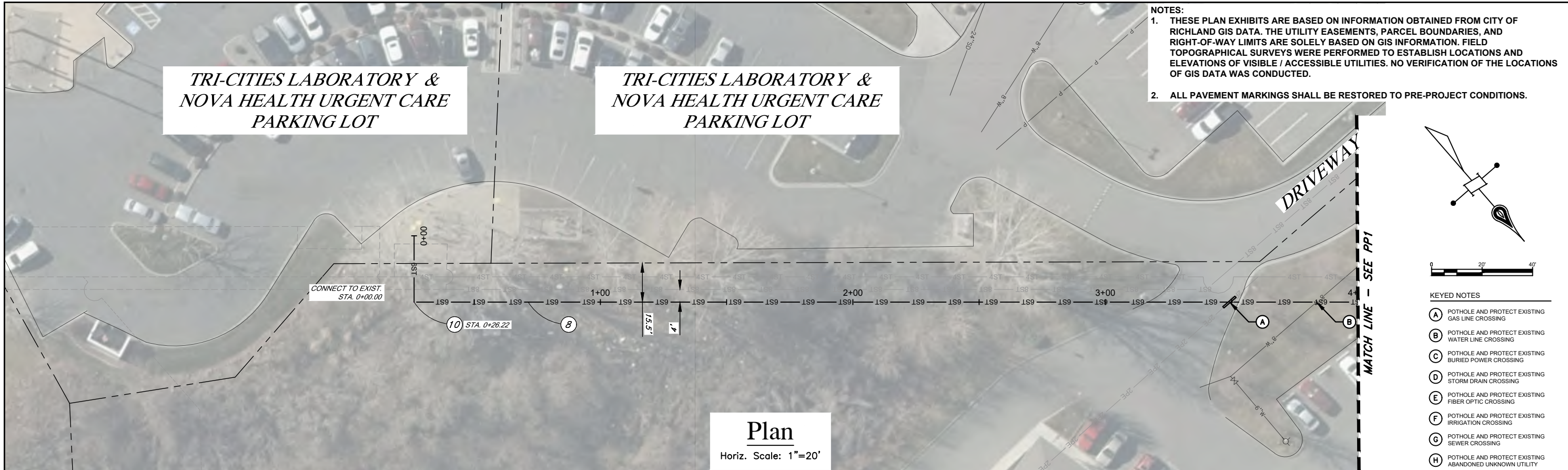
Approved For Construction
 By: _____ Date _____
 TITLE: _____
 Approval Expires: _____ Date _____

CASCADE NATURAL GAS CORPORATION
 8113 W Grandridge Blvd Kennewick, WA 99336

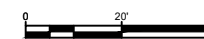
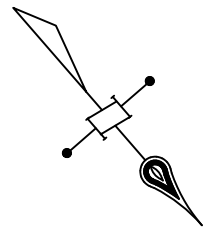
CAD Tech: M WILKINSON Scale: 1"=20'
 CAD Review: M BITTON Grid #: 6-V
 Engineer: T HENDERSON Date: 11/23/21
 Design Review: R SORENSEN
 Parent Work Order #: 279575
 Work Order Number: 279575
 Drawing No: 237441020197

Richland HP Extension - Phase I
 Leslie Rd. 6" HP & Col. Park Trail 12" HP
 Richland, WA
 Benton County
 Stormwater Protection Plan
 Sec 25 Town 9N Rng 28E

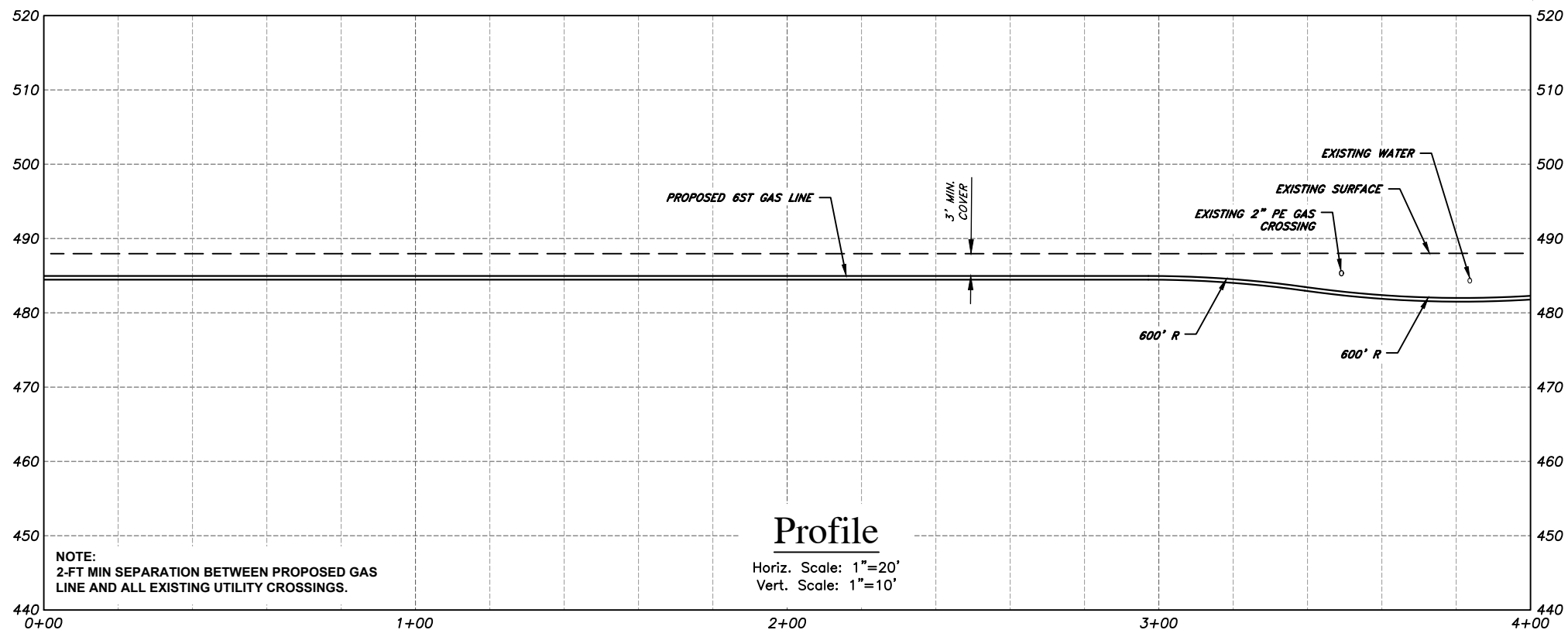
SWPP
 4 OF 42



- NOTES:**
1. THESE PLAN EXHIBITS ARE BASED ON INFORMATION OBTAINED FROM CITY OF RICHLAND GIS DATA. THE UTILITY EASEMENTS, PARCEL BOUNDARIES, AND RIGHT-OF-WAY LIMITS ARE SOLELY BASED ON GIS INFORMATION. FIELD TOPOGRAPHICAL SURVEYS WERE PERFORMED TO ESTABLISH LOCATIONS AND ELEVATIONS OF VISIBLE / ACCESSIBLE UTILITIES. NO VERIFICATION OF THE LOCATIONS OF GIS DATA WAS CONDUCTED.
 2. ALL PAVEMENT MARKINGS SHALL BE RESTORED TO PRE-PROJECT CONDITIONS.



- KEYED NOTES**
- (A) POTHOLE AND PROTECT EXISTING GAS LINE CROSSING
 - (B) POTHOLE AND PROTECT EXISTING WATER LINE CROSSING
 - (C) POTHOLE AND PROTECT EXISTING BURIED POWER CROSSING
 - (D) POTHOLE AND PROTECT EXISTING STORM DRAIN CROSSING
 - (E) POTHOLE AND PROTECT EXISTING FIBER OPTIC CROSSING
 - (F) POTHOLE AND PROTECT EXISTING IRRIGATION CROSSING
 - (G) POTHOLE AND PROTECT EXISTING SEWER CROSSING
 - (H) POTHOLE AND PROTECT EXISTING ABANDONED UNKNOWN UTILITY



CALL BEFORE YOU DIG:
 UTILITIES UNDERGROUND
 LOCATION CENTER
811

CONTRACTOR TO VERIFY SIZE, TYPE AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY PROJECT ENGINEER IMMEDIATELY IF CONFLICTS ARISE.

PRELIMINARY

NOTE:
 2-FT MIN SEPARATION BETWEEN PROPOSED GAS LINE AND ALL EXISTING UTILITY CROSSINGS.

NO	REVISION	BY	DATE

Approved For Construction

By: _____ Date: _____

TITLE: _____

Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION

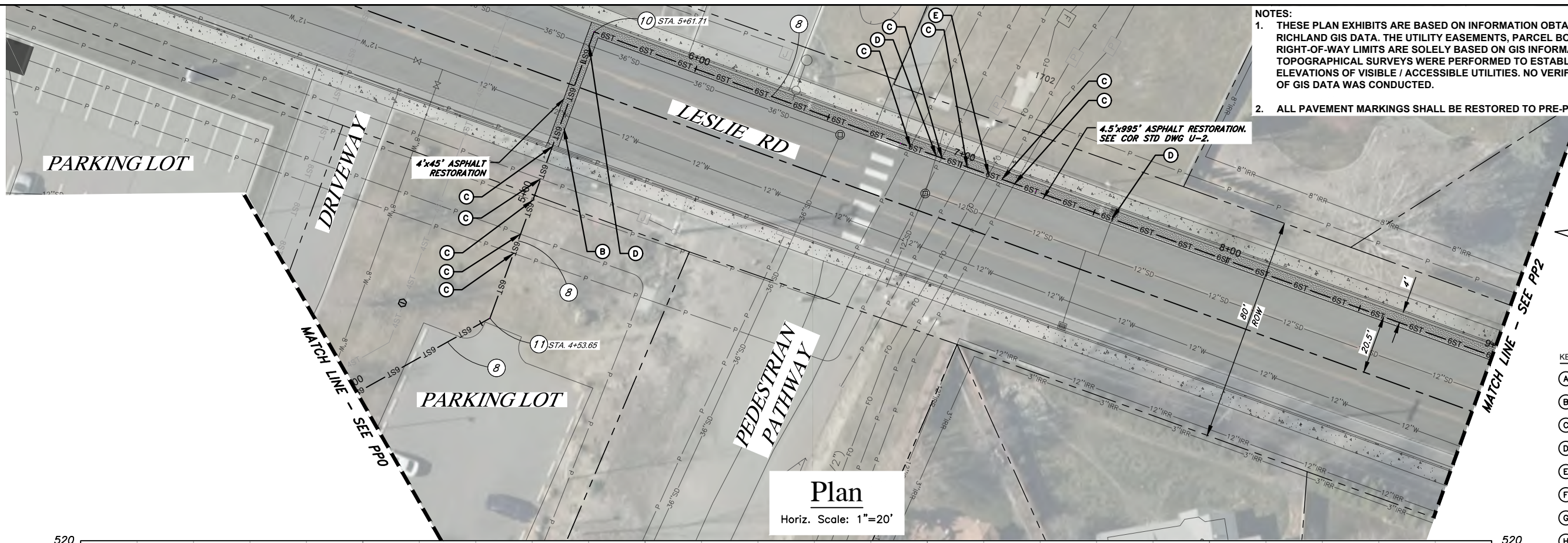
8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON Scale: 1"=20'
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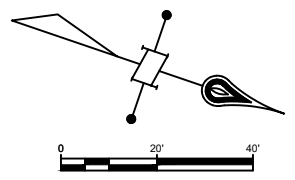
Richland HP Extension - Phase I
 Leslie Rd. 6" HP
 Richland, WA
 Benton County
 Plan & Profile Sheet - STA. 0+00 to 4+00
 Sec 25 Town 9N Rng 28E

PP0

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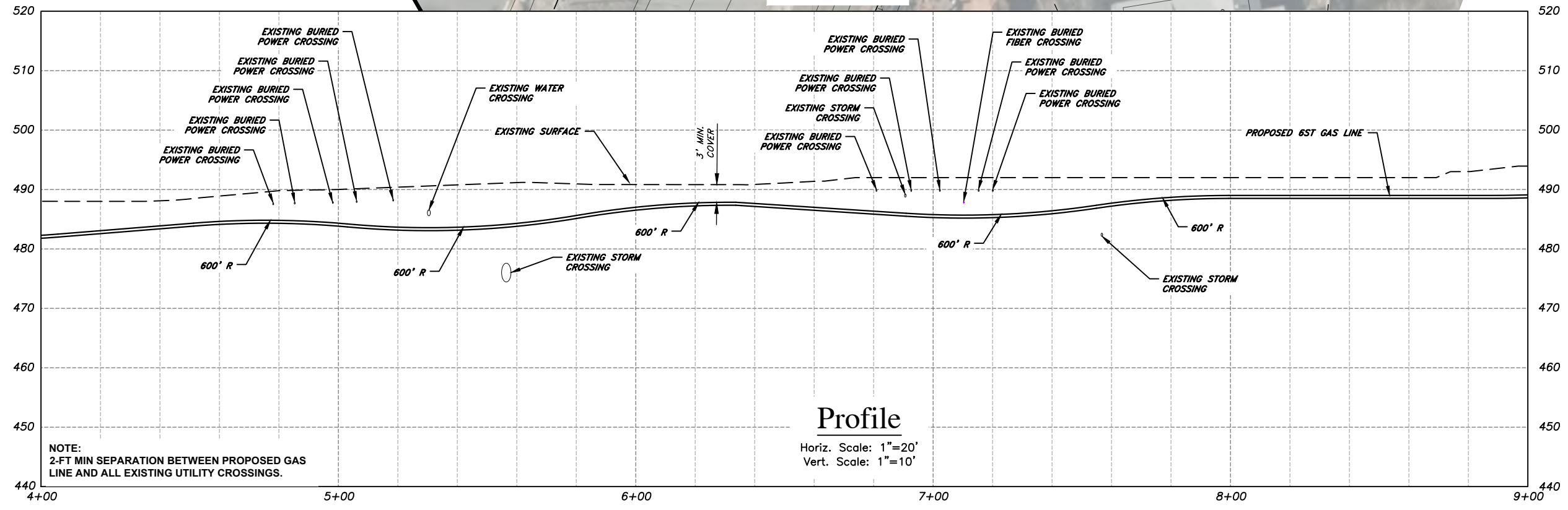


NOTES:
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 2. ALL PAVEMENT MARKINGS SHALL BE RESTORED TO PRE-PROJECT CONDITIONS.



- KEYED NOTES**
- (A) POTHOLE AND PROTECT EXISTING GAS LINE CROSSING
 - (B) POTHOLE AND PROTECT EXISTING WATER LINE CROSSING
 - (C) POTHOLE AND PROTECT EXISTING BURIED POWER CROSSING
 - (D) POTHOLE AND PROTECT EXISTING STORM DRAIN CROSSING
 - (E) POTHOLE AND PROTECT EXISTING FIBER OPTIC CROSSING
 - (F) POTHOLE AND PROTECT EXISTING IRRIGATION CROSSING
 - (G) POTHOLE AND PROTECT EXISTING SEWER CROSSING
 - (H) POTHOLE AND PROTECT EXISTING ABANDONED UNKNOWN UTILITY

Plan
 Horiz. Scale: 1"=20'



Profile
 Horiz. Scale: 1"=20'
 Vert. Scale: 1"=10'

CALL BEFORE YOU DIG:
 UTILITIES UNDERGROUND
 LOCATION CENTER
811

CONTRACTOR TO VERIFY SIZE, TYPE AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY PROJECT ENGINEER IMMEDIATELY IF CONFLICTS ARISE.

PRELIMINARY

NO	REVISION	BY	DATE

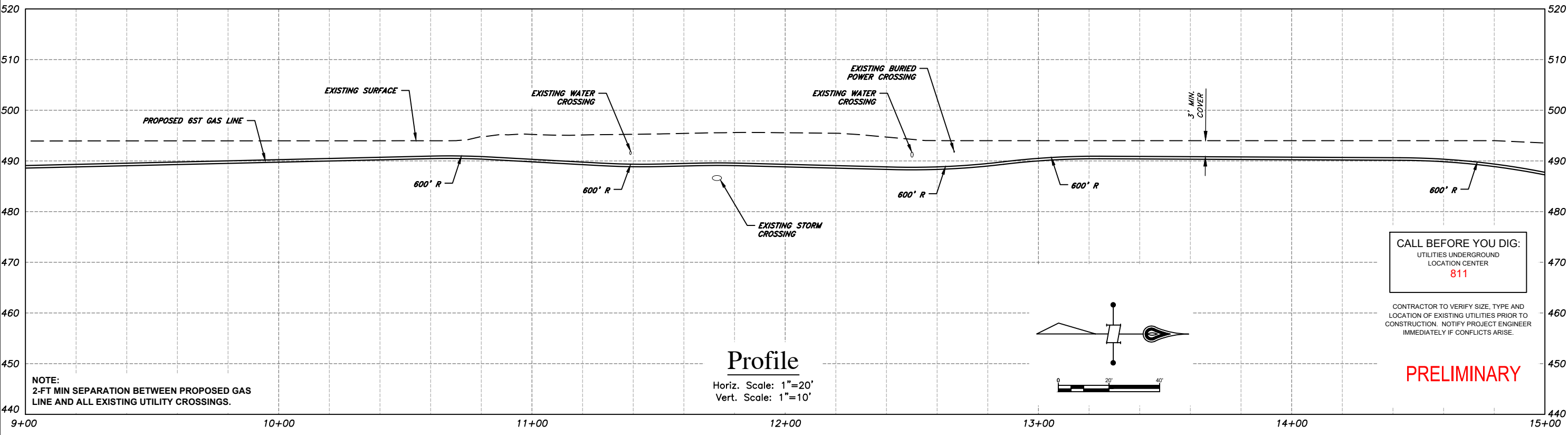
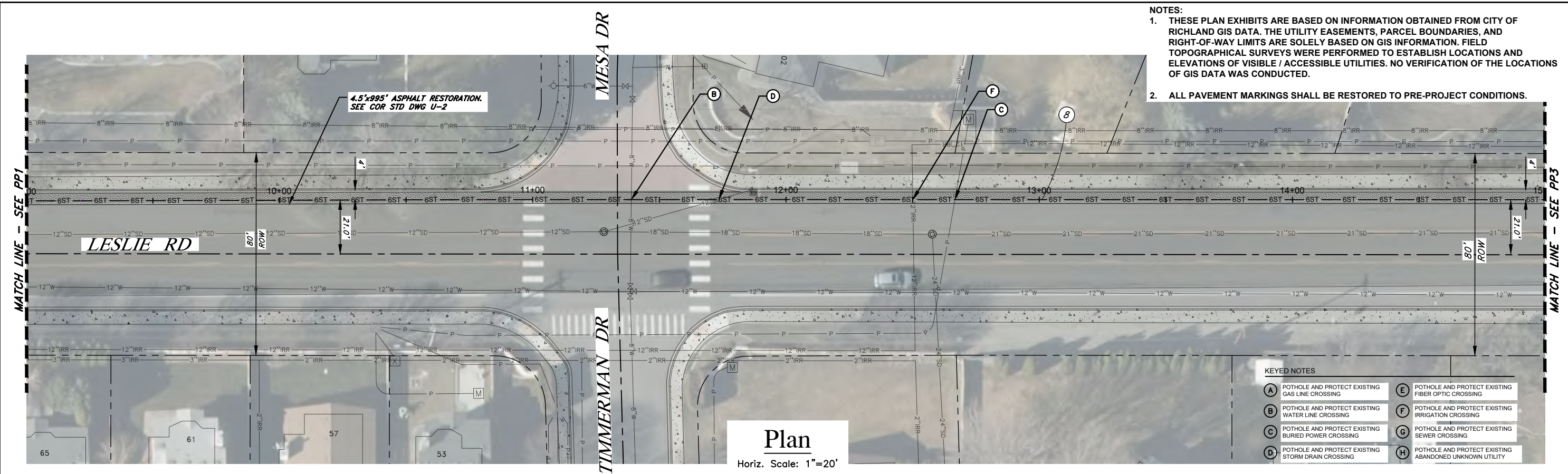
Approved For Construction
 By: _____ Date _____
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CASCADE NATURAL GAS CORPORATION
 8113 W Grandridge Blvd Kennewick, WA 99336

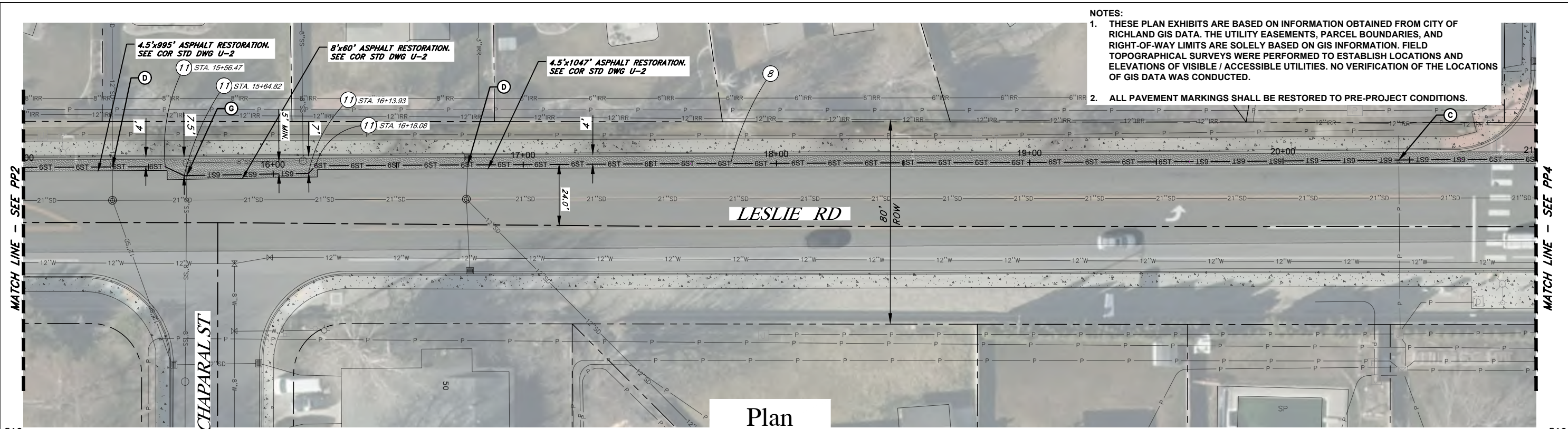
CAD Tech: M WILKINSON
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 Design Review: R SORENSEN
 Parent Work Order #: 279575
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Scale: 1"=20'
 Grid #: 6-V
 Date: 11/23/21
 Richland HP Extension - Phase I
 Leslie Rd. 6" HP
 Richland, WA
 Benton County
 Plan & Profile Sheet - STA. 4+00 to 9+00
 Sec 25 Town 9N Rng 28E

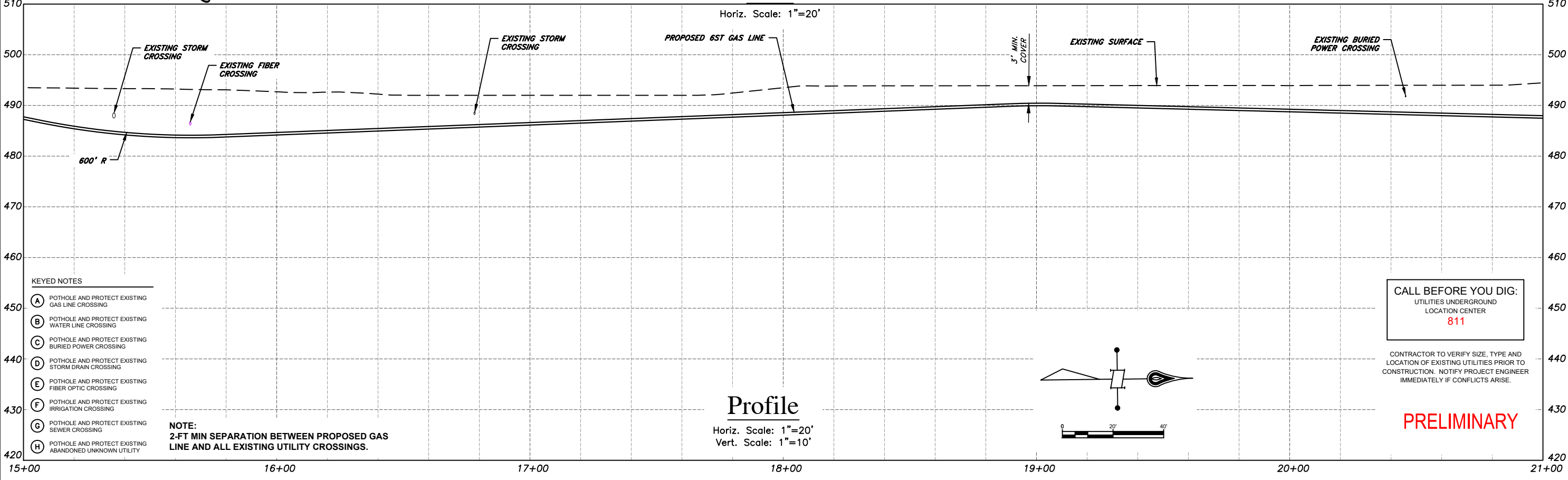
PP1
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				Approved For Construction		CAD Tech: M WILKINSON		Scale: 1"=20'		Richland HP Extension - Phase I Leslie Rd. 6" HP Richland, WA Benton County Plan & Profile Sheet - STA. 9+00 to 15+00 Sec 25 Town 9N Rng 28E		PP2 7 OF 42	
				By: _____ Date _____		CAD Review: M BITTON		Grid #: 6-V					
				TITLE: _____		Engineer: T HENDERSON		Date: 11/23/21					
				Approval Expires: _____ Date _____		Design Review: R SORENSEN		Parent Work Order #: 279575					
						Work Order Number: 279575		Drawing No: 237441020197					
NO	REVISION	BY	DATE										



NOTES:
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 2. ALL PAVEMENT MARKINGS SHALL BE RESTORED TO PRE-PROJECT CONDITIONS.



- KEYED NOTES**
- (A) POTHOLE AND PROTECT EXISTING GAS LINE CROSSING
 - (B) POTHOLE AND PROTECT EXISTING WATER LINE CROSSING
 - (C) POTHOLE AND PROTECT EXISTING BURIED POWER CROSSING
 - (D) POTHOLE AND PROTECT EXISTING STORM DRAIN CROSSING
 - (E) POTHOLE AND PROTECT EXISTING FIBER OPTIC CROSSING
 - (F) POTHOLE AND PROTECT EXISTING IRRIGATION CROSSING
 - (G) POTHOLE AND PROTECT EXISTING SEWER CROSSING
 - (H) POTHOLE AND PROTECT EXISTING ABANDONED UNKNOWN UTILITY

NOTE:
 2-FT MIN SEPARATION BETWEEN PROPOSED GAS LINE AND ALL EXISTING UTILITY CROSSINGS.

CALL BEFORE YOU DIG:
 UTILITIES UNDERGROUND
 LOCATION CENTER
811

CONTRACTOR TO VERIFY SIZE, TYPE AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY PROJECT ENGINEER IMMEDIATELY IF CONFLICTS ARISE.

PRELIMINARY

NO	REVISION	BY	DATE

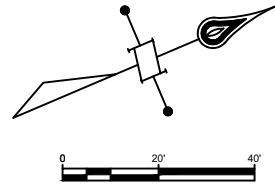
Approved For Construction
 By: _____ Date _____
 TITLE: _____
 Approval Expires: _____ Date _____

CASCADE NATURAL GAS CORPORATION
 8113 W Grandridge Blvd Kennewick, WA 99336

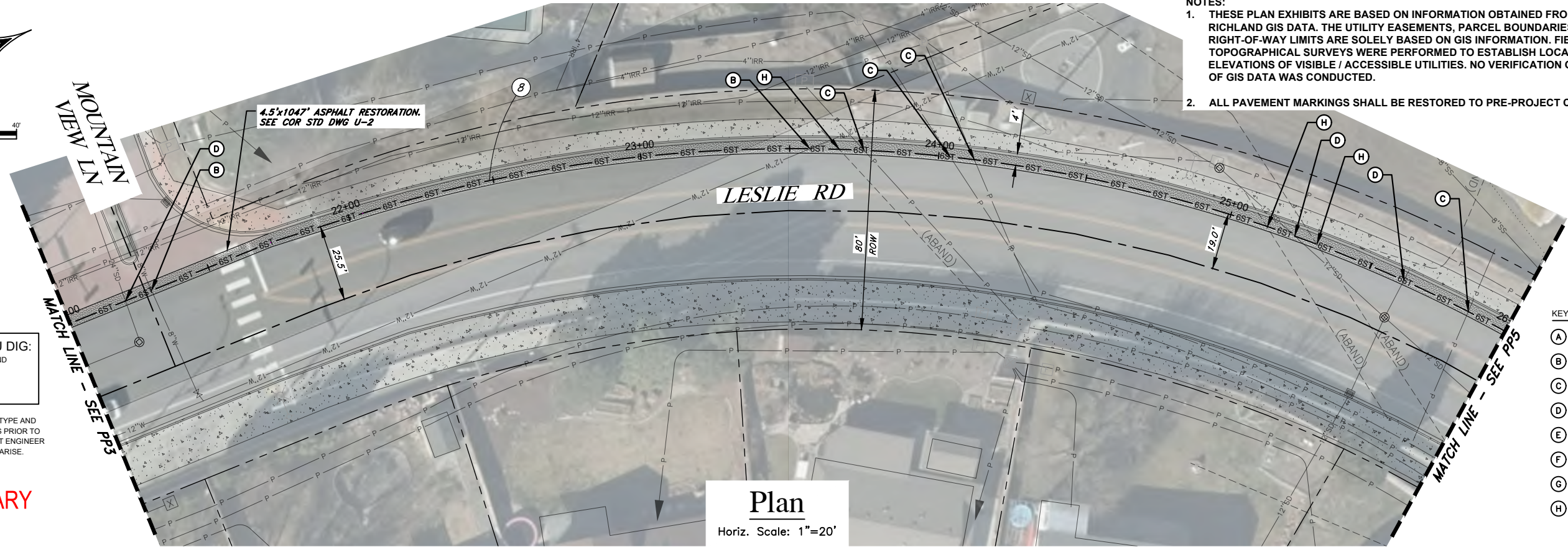
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 CAD Review: M BITTON Grid #: 6-U
 Engineer: T HENDERSON Date: 11/23/21
 Design Review: R SORENSEN
 Parent Work Order #: 279575
 Work Order Number: 279575
 Drawing No: 237441020197

Richland HP Extension - Phase 1
 Leslie Rd. 6" HP
 Richland, WA
 Benton County
 Plan Sheet - STA. 15+00 to 21+00
 Sec 25 Town 9N Rng 28E

PP3
 8 OF 42



- NOTES:**
1. THESE PLAN EXHIBITS ARE BASED ON INFORMATION OBTAINED FROM CITY OF RICHLAND GIS DATA. THE UTILITY EASEMENTS, PARCEL BOUNDARIES, AND RIGHT-OF-WAY LIMITS ARE SOLELY BASED ON GIS INFORMATION. FIELD TOPOGRAPHICAL SURVEYS WERE PERFORMED TO ESTABLISH LOCATIONS AND ELEVATIONS OF VISIBLE / ACCESSIBLE UTILITIES. NO VERIFICATION OF THE LOCATIONS OF GIS DATA WAS CONDUCTED.
 2. ALL PAVEMENT MARKINGS SHALL BE RESTORED TO PRE-PROJECT CONDITIONS.



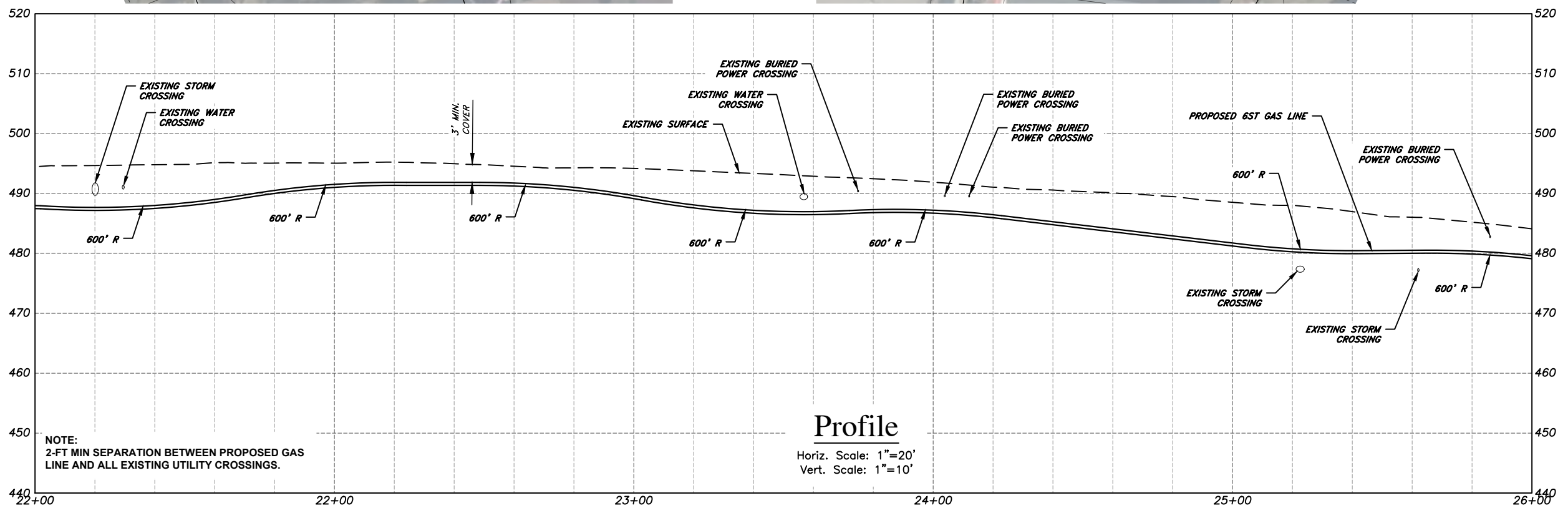
CALL BEFORE YOU DIG:
 UTILITIES UNDERGROUND
 LOCATION CENTER
811

CONTRACTOR TO VERIFY SIZE, TYPE AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY PROJECT ENGINEER IMMEDIATELY IF CONFLICTS ARISE.

PRELIMINARY

- KEYED NOTES**
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 - (B) POTHOLE AND PROTECT EXISTING WATER LINE CROSSING
 - (C) POTHOLE AND PROTECT EXISTING BURIED POWER CROSSING
 - (D) POTHOLE AND PROTECT EXISTING STORM DRAIN CROSSING
 - (E) POTHOLE AND PROTECT EXISTING FIBER OPTIC CROSSING
 - (F) POTHOLE AND PROTECT EXISTING IRRIGATION CROSSING
 - (G) POTHOLE AND PROTECT EXISTING SEWER CROSSING
 - (H) POTHOLE AND PROTECT EXISTING ABANDONED UNKNOWN UTILITY

Plan
 Horiz. Scale: 1"=20'



Profile
 Horiz. Scale: 1"=20'
 Vert. Scale: 1"=10'

NO	REVISION	BY	DATE

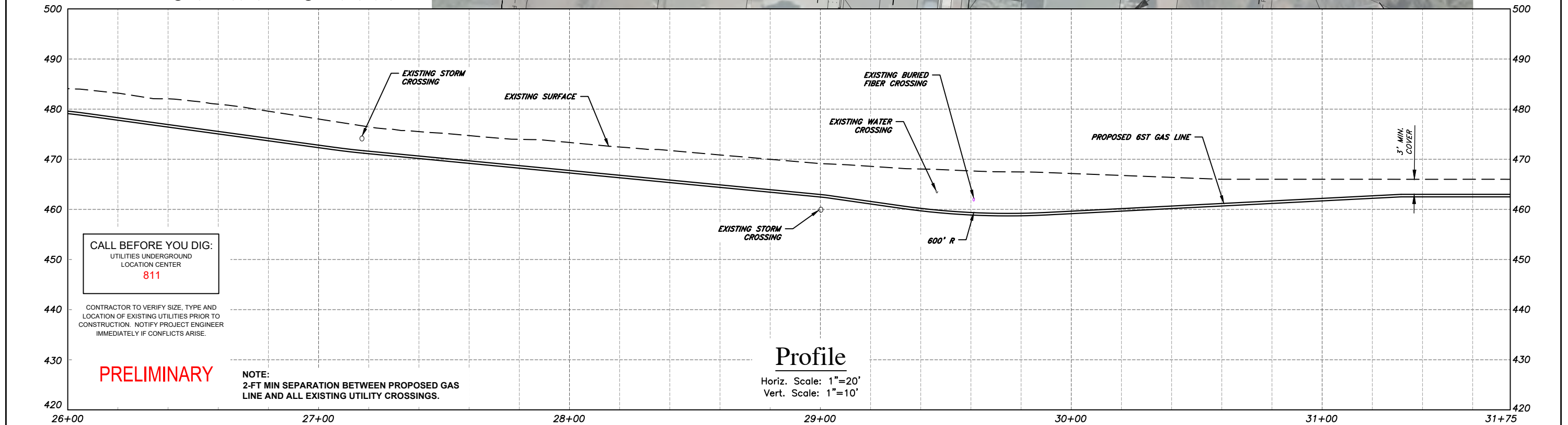
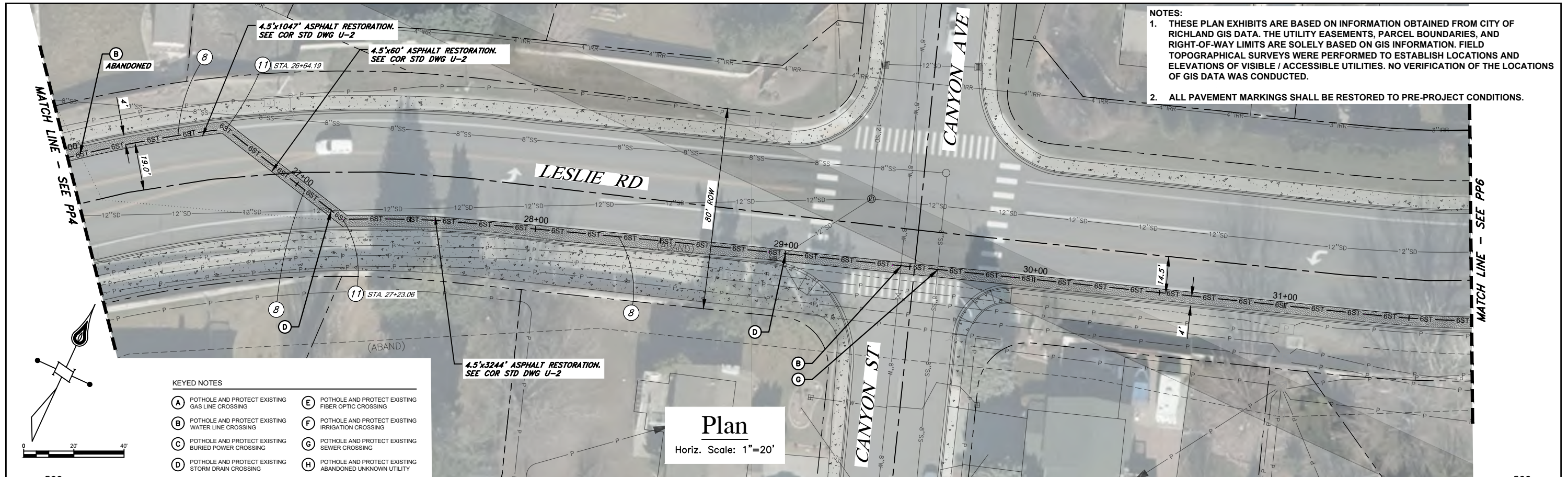
Approved For Construction
 By: _____ Date: _____
 TITLE: _____
 Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION
 8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON Scale: 1"=20'
 CAD Review: M BITTON Grid #: 6-U
 Engineer: T HENDERSON Date: 11/23/21
 Design Review: R SORENSEN
 Parent Work Order #: 279575
 Work Order Number: 279575
 Drawing No: 237441020197

Richland HP Extension - Phase 1
 Leslie Rd. 6" HP
 Richland, WA
 Benton County
 Plan Sheet - STA. 21+00 to 26+00
 Sec 25 Town 9N Rng 28E

PP4
 9 OF 42



NO	REVISION	BY	DATE

Approved For Construction

By: _____ Date: _____

TITLE: _____

Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION

8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON
 CAD Review: M BITTON
 Engineer: T HENDERSON
 Design Review: R SORENSEN
 Parent Work Order #: 279575
 Work Order Number: 279575
 Drawing No: 237441020197

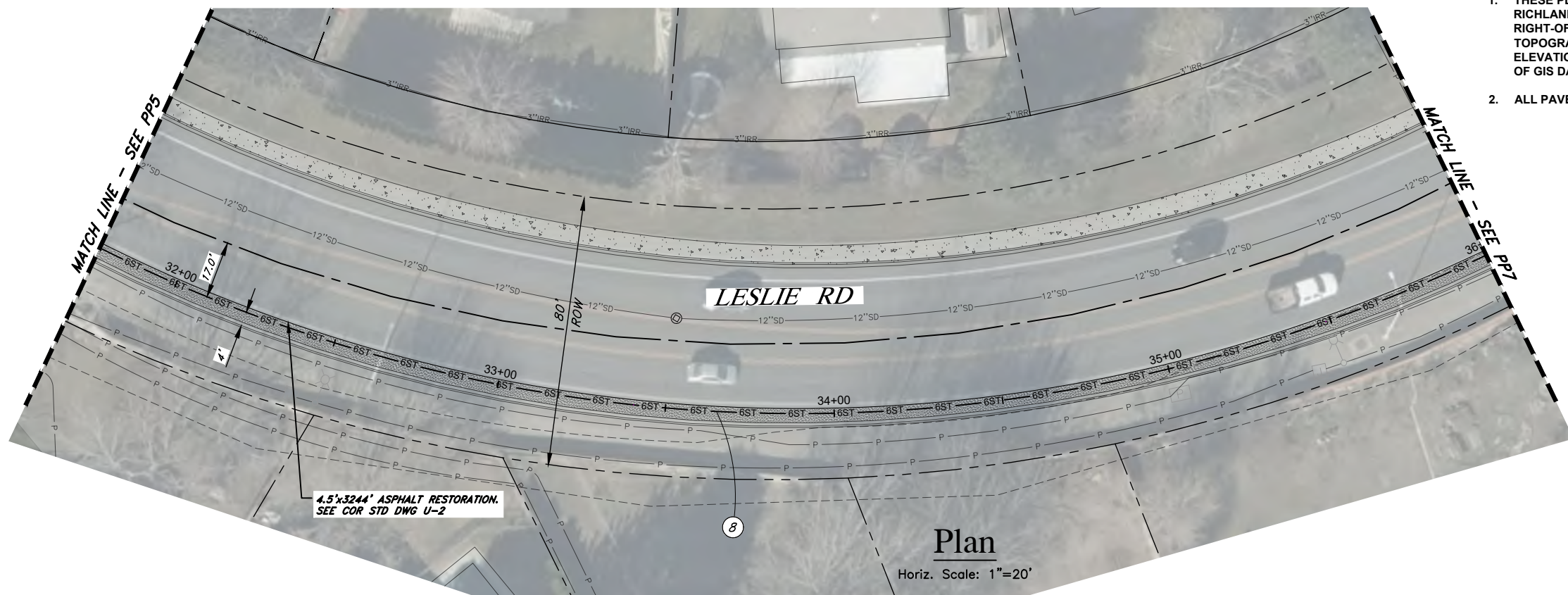
Scale: 1"=20'
 Grid #: 6-U
 Date: 11/23/21

Richland HP Extension - Phase 1
 Leslie Rd. 6" HP
 Richland, WA
 Benton County
 Plan Sheet - STA. 26+00 to 31+75

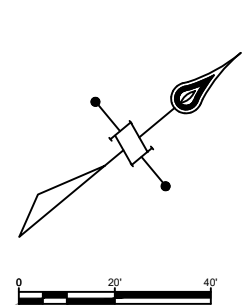
Sec 25 Town 9N Rng 28E

PP5

10 OF 42

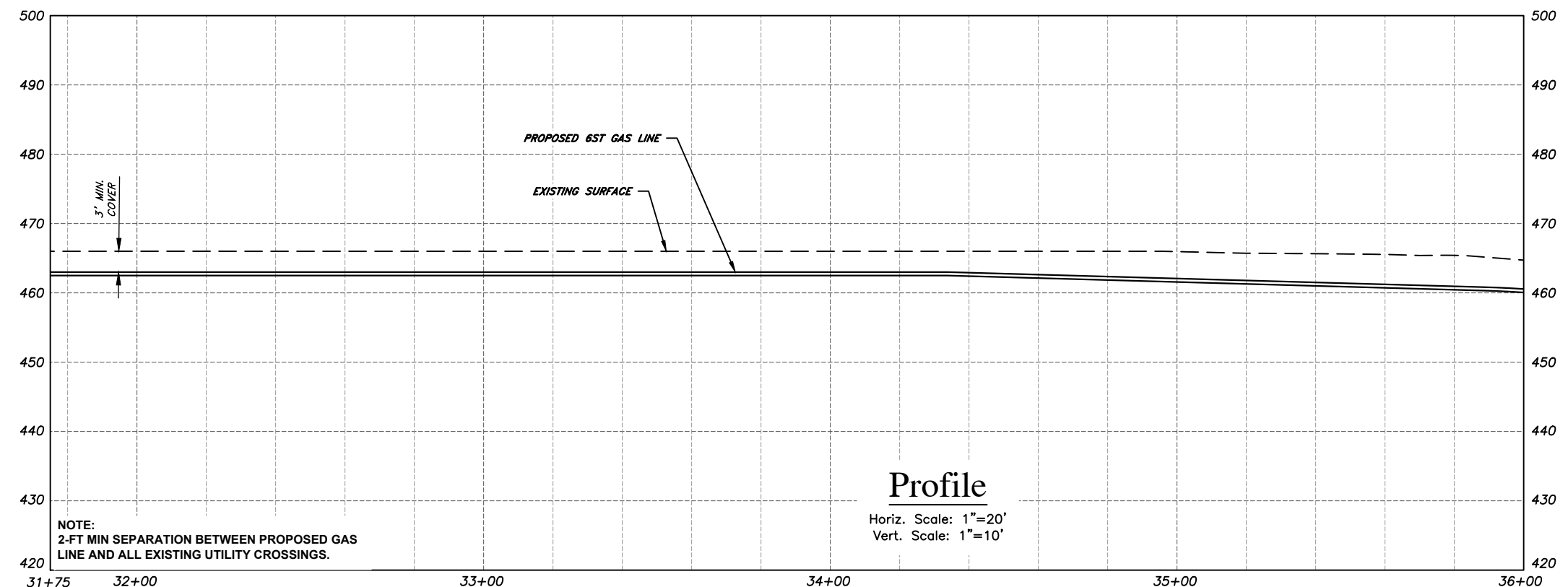


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 - (G) POTHOLE AND PROTECT EXISTING SEWER CROSSING
 - (H) POTHOLE AND PROTECT EXISTING ABANDONED UNKNOWN UTILITY

Plan
Horiz. Scale: 1"=20'



Profile
Horiz. Scale: 1"=20'
Vert. Scale: 1"=10'

CALL BEFORE YOU DIG:
UTILITIES UNDERGROUND
LOCATION CENTER
811

CONTRACTOR TO VERIFY SIZE, TYPE AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY PROJECT ENGINEER IMMEDIATELY IF CONFLICTS ARISE.

PRELIMINARY

NO	REVISION	BY	DATE

Approved For Construction
By: _____ Date: _____
TITLE: _____
Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION
8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON Scale: 1"=20'
CAD Review: M BITTON Grid #: 6-U
Engineer: T HENDERSON Date: 11/23/21
Design Review: R SORENSEN
Parent Work Order #: 279575
Work Order Number: 279575
Drawing No: 237441020197

Richland HP Extension - Phase 1
Leslie Rd. 6" HP
Richland, WA
Benton County
Plan Sheet - STA. 31+75 to 36+00
Sec 25 Town 9N Rng 28E

PP6
11 OF 42

CALL BEFORE YOU DIG:
 UTILITIES UNDERGROUND
 LOCATION CENTER
811

CONTRACTOR TO VERIFY SIZE, TYPE AND
 LOCATION OF EXISTING UTILITIES PRIOR TO
 CONSTRUCTION. NOTIFY PROJECT ENGINEER
 IMMEDIATELY IF CONFLICTS ARISE.

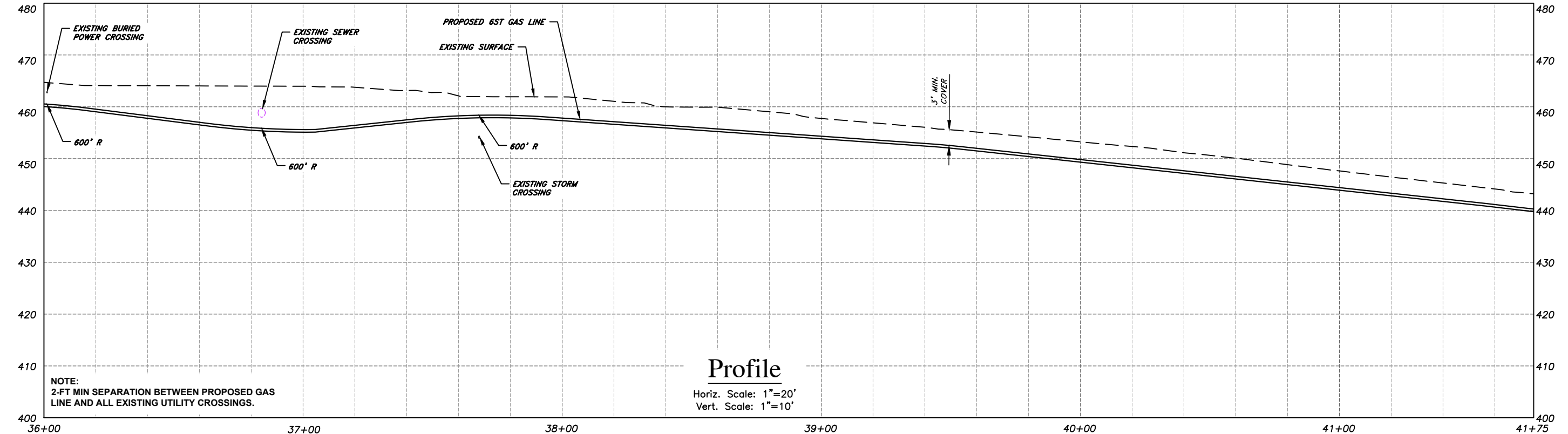
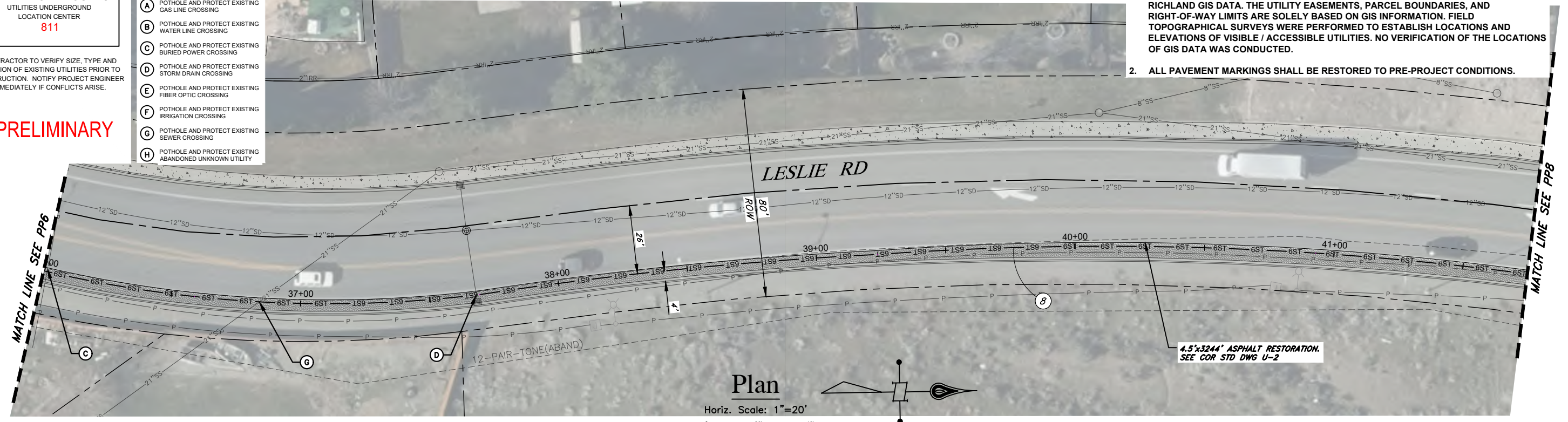
PRELIMINARY

KEYED NOTES

- (A) POTHOLE AND PROTECT EXISTING GAS LINE CROSSING
- (B) POTHOLE AND PROTECT EXISTING WATER LINE CROSSING
- (C) POTHOLE AND PROTECT EXISTING BURIED POWER CROSSING
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- (F) POTHOLE AND PROTECT EXISTING IRRIGATION CROSSING
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NO	REVISION	BY	DATE

Approved For Construction
 By: _____ Date: _____
 TITLE: _____
 Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION
 8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON Scale: 1"=20'
 CAD Review: M BITTON Grid #: 6-U
 Engineer: T HENDERSON Date: 11/23/21
 Design Review: R SORENSEN
 Parent Work Order #: 279575
 Work Order Number: 279575
 Drawing No: 237441020197

Richland HP Extension - Phase I
 Leslie Rd. 6" HP
 Richland, WA
 Benton County
 Plan Sheet - STA. 36+00 to 41+75
 Sec 25 Town 9N Rng 28E

PP7
 12 OF 42

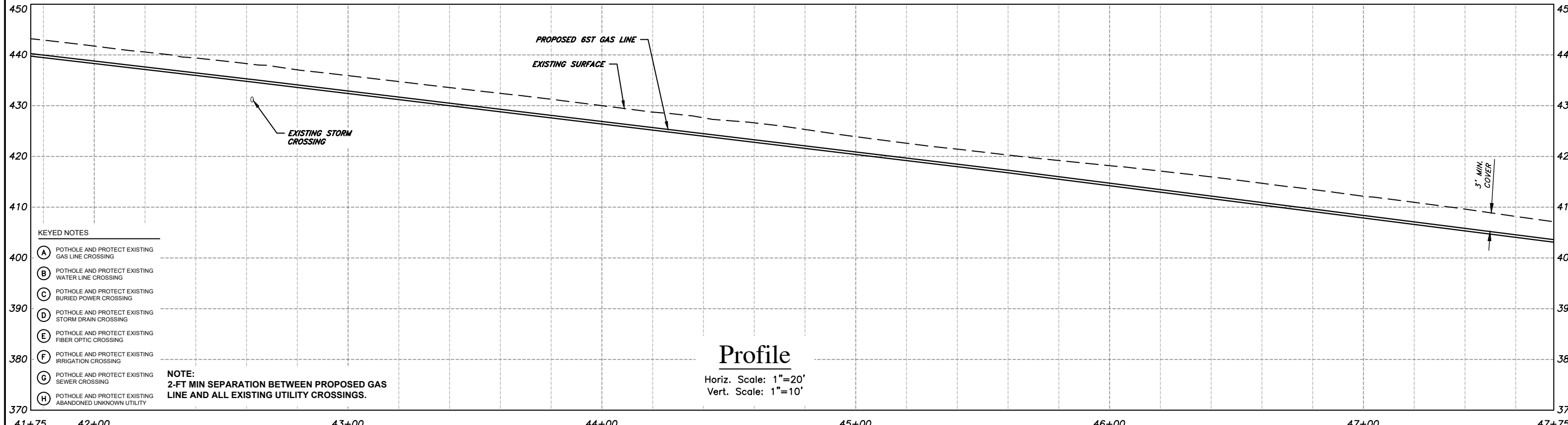
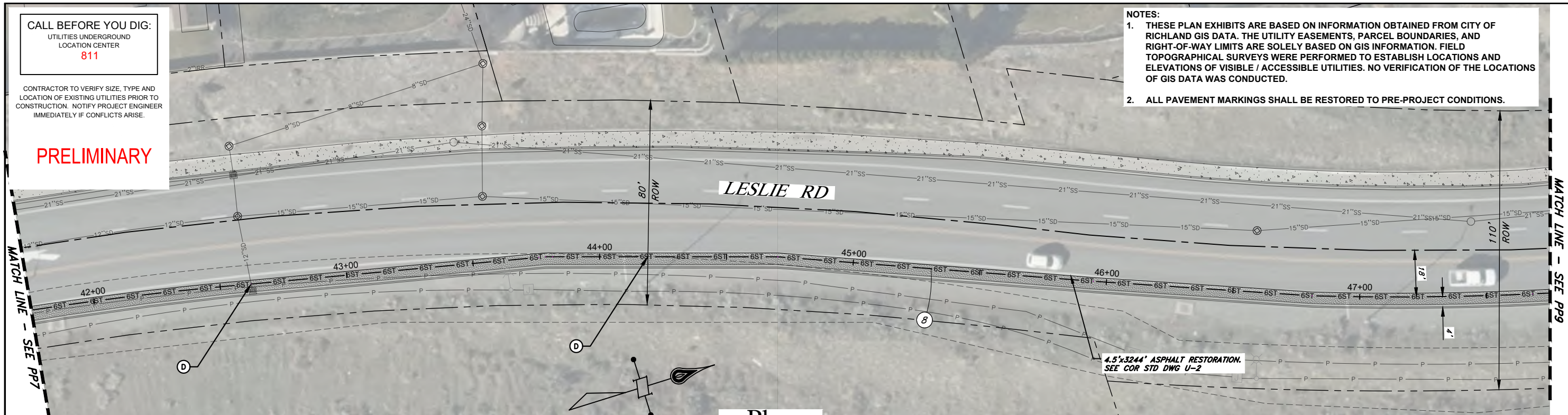
CALL BEFORE YOU DIG:
 UTILITIES UNDERGROUND
 LOCATION CENTER
811

CONTRACTOR TO VERIFY SIZE, TYPE AND
 LOCATION OF EXISTING UTILITIES PRIOR TO
 CONSTRUCTION. NOTIFY PROJECT ENGINEER
 IMMEDIATELY IF CONFLICTS ARISE.

PRELIMINARY

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KEYED NOTES

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- (B) POTHOLE AND PROTECT EXISTING WATER LINE CROSSING
- (C) POTHOLE AND PROTECT EXISTING BURIED POWER CROSSING
- (D) POTHOLE AND PROTECT EXISTING STORM DRAIN CROSSING
- (E) POTHOLE AND PROTECT EXISTING FIBER OPTIC CROSSING
- (F) POTHOLE AND PROTECT EXISTING IRRIGATION CROSSING
- (G) POTHOLE AND PROTECT EXISTING SEWER CROSSING
- (H) POTHOLE AND PROTECT EXISTING ABANDONED UNKNOWN UTILITY

NOTE:
 2-FT MIN SEPARATION BETWEEN PROPOSED GAS LINE AND ALL EXISTING UTILITY CROSSINGS.

NO	REVISION	BY	DATE

Approved For Construction
 By: _____ Date: _____
 TITLE: _____
 Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION
 8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON Scale: 1"=20'
 CAD Review: M BITTON Grid #: 6-T
 Engineer: T HENDERSON Date: 11/23/21
 Design Review: R SORENSEN
 Parent Work Order #: 279575
 Work Order Number: 279575
 Drawing No: 237441020197

Richland HP Extension - Phase 1
 Leslie Rd. 6" HP
 Richland, WA
 Benton County
 Plan Sheet - STA. 41+75 to 47+75
 Sec 25 Town 9N Rng 28E

PP8
 13 OF 42

CALL BEFORE YOU DIG:
UTILITIES UNDERGROUND
LOCATION CENTER
811

CONTRACTOR TO VERIFY SIZE, TYPE AND
LOCATION OF EXISTING UTILITIES PRIOR TO
CONSTRUCTION. NOTIFY PROJECT ENGINEER
IMMEDIATELY IF CONFLICTS ARISE.

PRELIMINARY

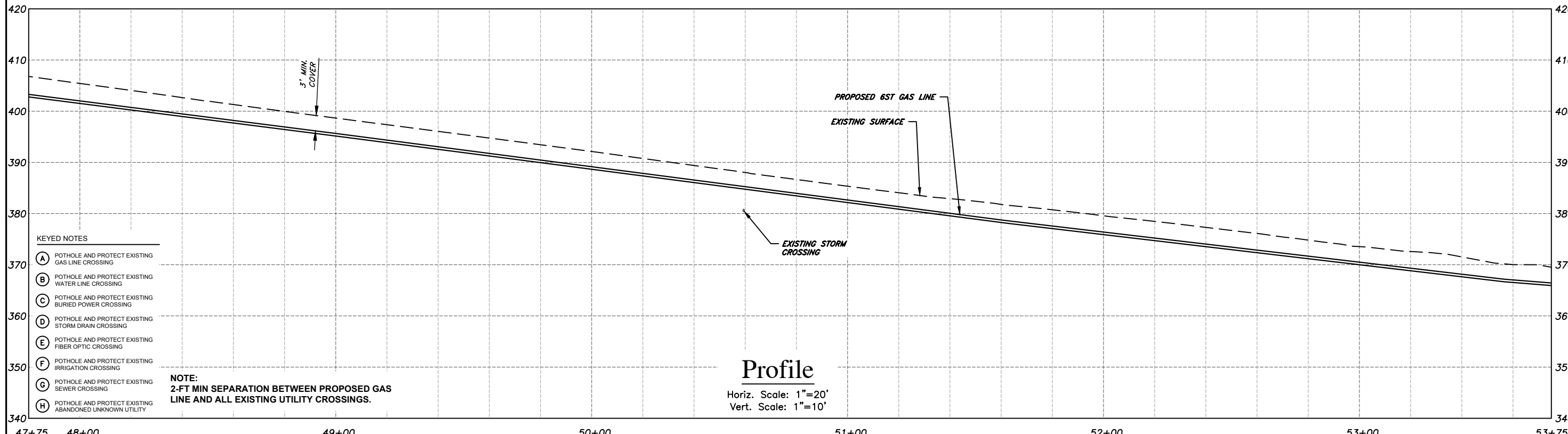
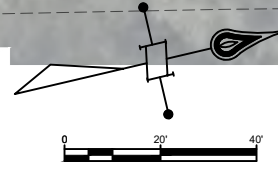
- NOTES:**
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MATCH LINE - SEE PP8

MATCH LINE - SEE PP10



Plan
Horiz. Scale: 1"=20'



Profile
Horiz. Scale: 1"=20'
Vert. Scale: 1"=10'

- KEYED NOTES**
- (A) POTHOLE AND PROTECT EXISTING GAS LINE CROSSING
 - (B) POTHOLE AND PROTECT EXISTING WATER LINE CROSSING
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 - (F) POTHOLE AND PROTECT EXISTING IRRIGATION CROSSING
 - (G) POTHOLE AND PROTECT EXISTING SEWER CROSSING
 - (H) POTHOLE AND PROTECT EXISTING ABANDONED UNKNOWN UTILITY

NOTE:
2-FT MIN SEPARATION BETWEEN PROPOSED GAS LINE AND ALL EXISTING UTILITY CROSSINGS.

NO	REVISION	BY	DATE

Approved For Construction

By: _____ Date: _____

TITLE: _____

Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION

8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON Scale: 1"=20'
 CAD Review: M BITTON Grid #: 6-T
 Engineer: T HENDERSON Date: 11/23/21
 Design Review: R SORENSEN
 Parent Work Order #: 279575
 Work Order Number: 279575
 Drawing No: 237441020197

Richland HP Extension - Phase I
 Leslie Rd. 6" HP
 Richland, WA
 Benton County
 Plan Sheet - STA. 47+75 to 53+75

Sec 25 Town 9N Rng 28E

PP9

14 OF 42

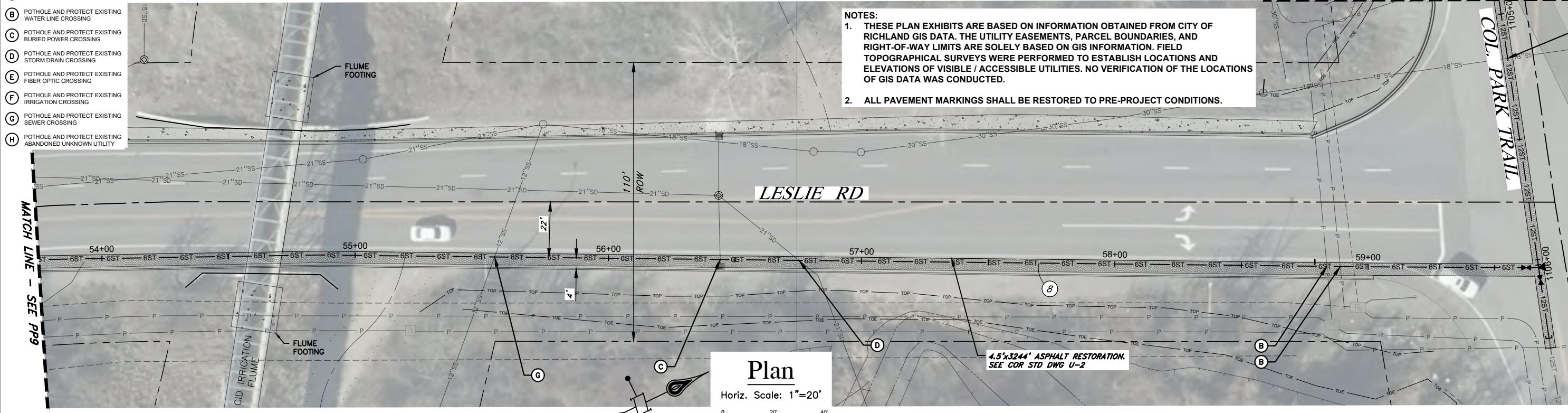
KEYED NOTES

- (A) POTHOLE AND PROTECT EXISTING GAS LINE CROSSING
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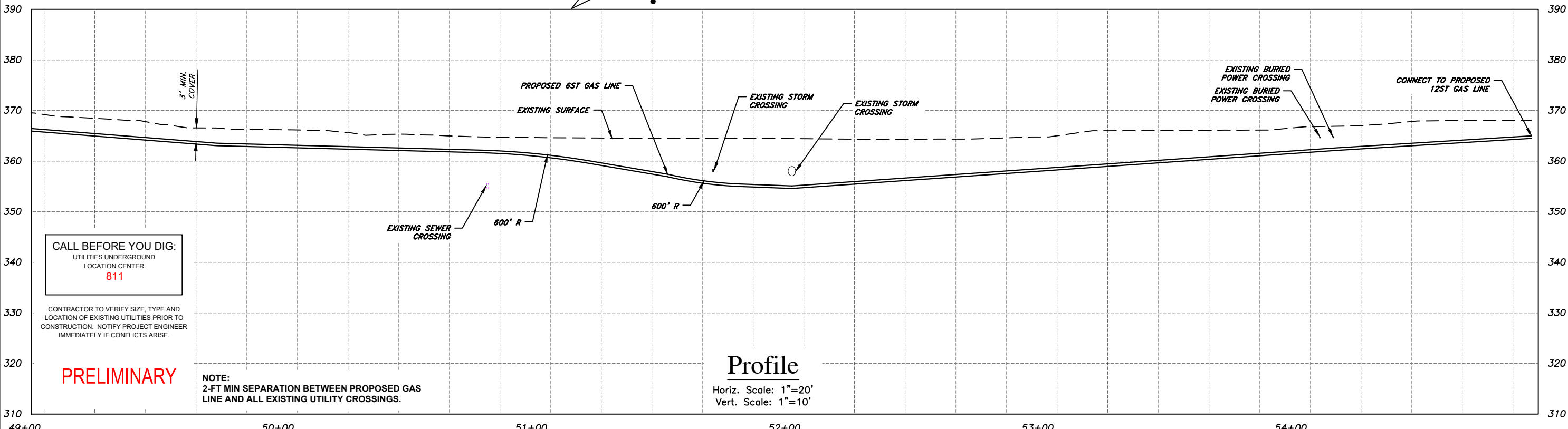
NOTES:

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2. ALL PAVEMENT MARKINGS SHALL BE RESTORED TO PRE-PROJECT CONDITIONS.

SEE SHEET PP30 FOR 12ST LINE



Plan
 Horiz. Scale: 1"=20'
 0 20' 40'



Profile
 Horiz. Scale: 1"=20'
 Vert. Scale: 1"=10'

CALL BEFORE YOU DIG:
 UTILITIES UNDERGROUND
 LOCATION CENTER
811

CONTRACTOR TO VERIFY SIZE, TYPE AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY PROJECT ENGINEER IMMEDIATELY IF CONFLICTS ARISE.

PRELIMINARY

NOTE:
 2-FT MIN SEPARATION BETWEEN PROPOSED GAS LINE AND ALL EXISTING UTILITY CROSSINGS.

NO	REVISION	BY	DATE

Approved For Construction
 By: _____ Date: _____
 TITLE: _____
 Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION
 8113 W Grandridge Blvd Kennewick, WA 99336

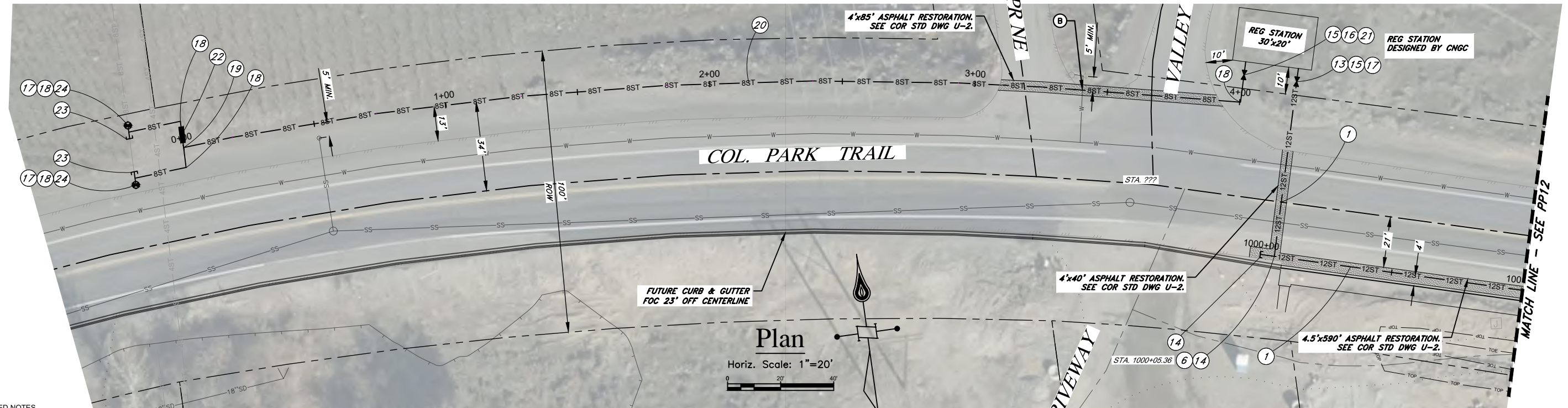
CAD Tech: M WILKINSON Scale: 1"=20'
 CAD Review: M BITTON Grid #: 6-T
 Engineer: T HENDERSON Date: 11/23/21
 Design Review: R SORENSEN
 Parent Work Order #: 279575
 Work Order Number: 279575
 Drawing No: 237441020197

Richland HP Extension - Phase I
 Leslie Rd. 6" HP
 Richland, WA
 Benton County
 Plan Sheet - STA. 53+75 to 59+70
 Sec 25 Town 9N Rng 28E

PP10
 15 OF 42

NOTES:

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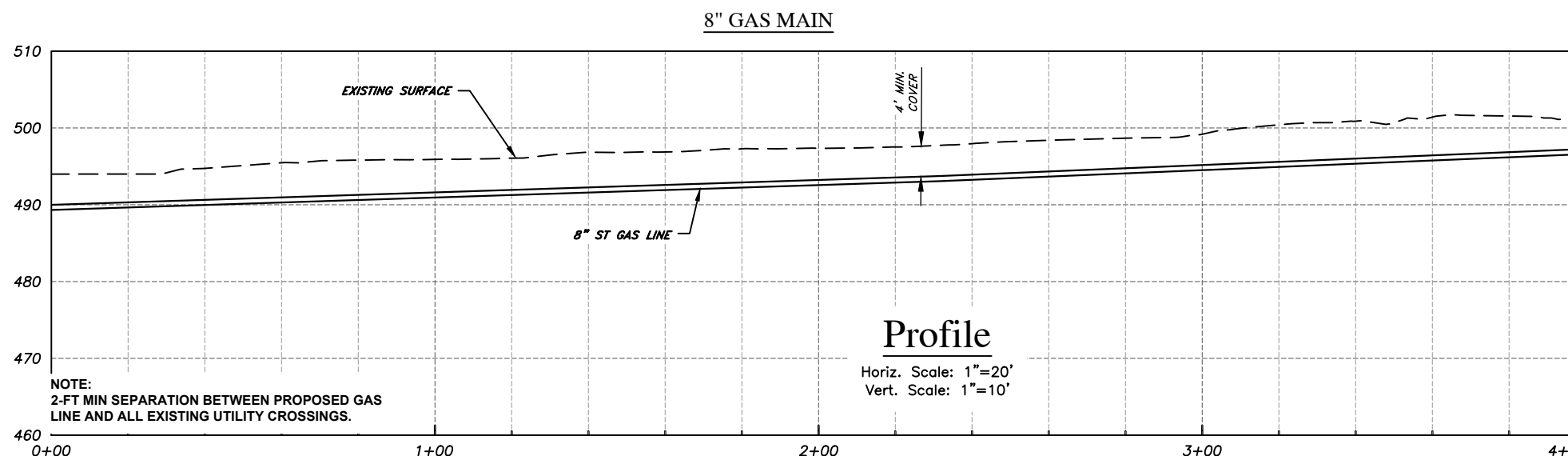
KEYED NOTES

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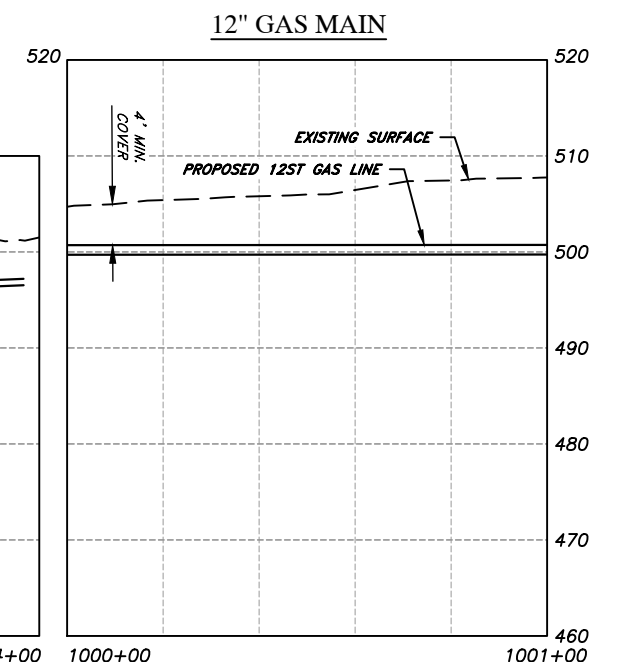
CALL BEFORE YOU DIG:
UTILITIES UNDERGROUND
LOCATION CENTER
811

CONTRACTOR TO VERIFY SIZE, TYPE AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY PROJECT ENGINEER IMMEDIATELY IF CONFLICTS ARISE.

PRELIMINARY



NOTE:
2-FT MIN SEPARATION BETWEEN PROPOSED GAS LINE AND ALL EXISTING UTILITY CROSSINGS.



NO	REVISION	BY	DATE

Approved For Construction

By: _____ Date: _____

TITLE: _____

Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION

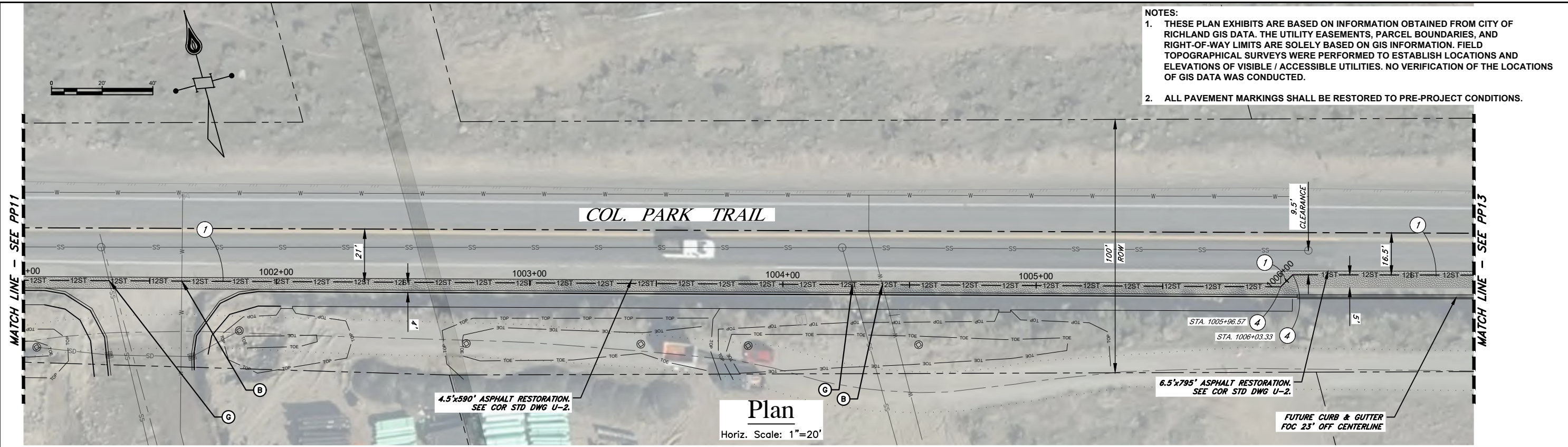
8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON Scale: 1"=20'
 CAD Review: M BITTON Grid #: 6-R
 Engineer: T HENDERSON Date: 11/23/21
 Design Review: R SORENSEN
 Parent Work Order #: 279575
 Work Order Number: 279575
 Drawing No: 237441020197

Richland HP Extension - Phase I
 Col. Park Trail 12" HP
 Richland, WA
 Benton County
 Plan Sheet - STA. 0+00 to 4+00
 Plan Sheet - STA. 1000+00 to 1001+00
 Sec 25 Town 9N Rng 28E

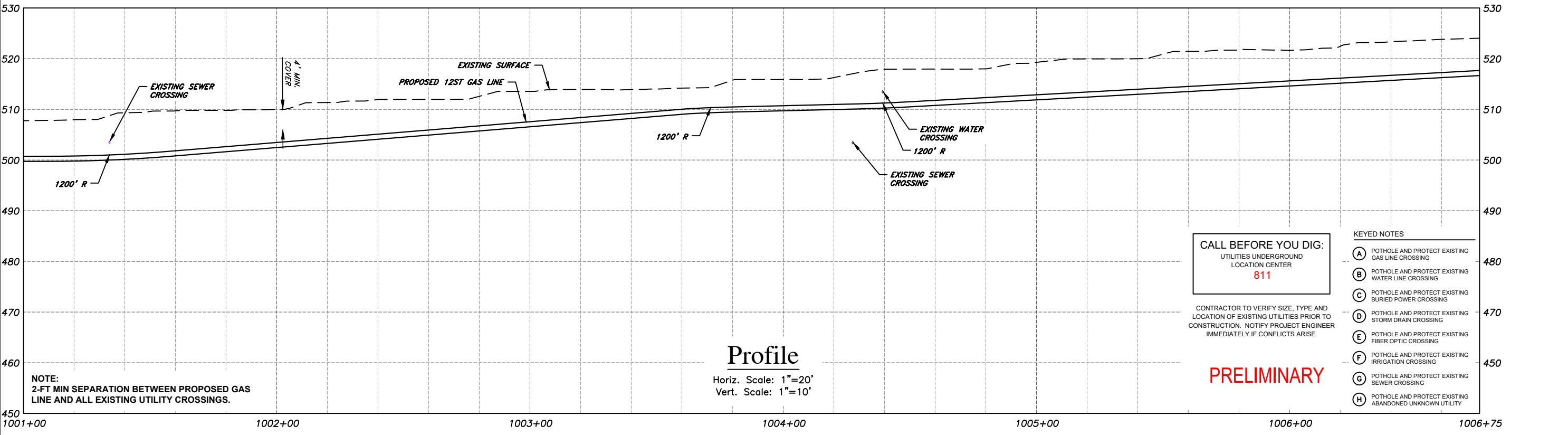
PP11

16 OF 42



- NOTES:**
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Plan
Horiz. Scale: 1"=20'



Profile
Horiz. Scale: 1"=20'
Vert. Scale: 1"=10'

CALL BEFORE YOU DIG:
UTILITIES UNDERGROUND
LOCATION CENTER
811

CONTRACTOR TO VERIFY SIZE, TYPE AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY PROJECT ENGINEER IMMEDIATELY IF CONFLICTS ARISE.

PRELIMINARY

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 - (B) POTHOLE AND PROTECT EXISTING WATER LINE CROSSING
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NO	REVISION	BY	DATE

Approved For Construction

By: _____ Date: _____

TITLE: _____

Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION

8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON
CAD Review: M BITTON
Engineer: T HENDERSON
Design Review: R SORENSEN
Parent Work Order #: 279575
Work Order Number: 279575
Drawing No: 237441020197

Scale: 1"=20'
Grid #: 6-R
Date: 11/23/21

Richland HP Extension - Phase I
Col. Park Trail 12" HP
Richland, WA
Benton County
Plan Sheet - STA. 1001+00 to 1006+75
Sec 25 Town 9N Rng 28E

PP12

17 OF 42

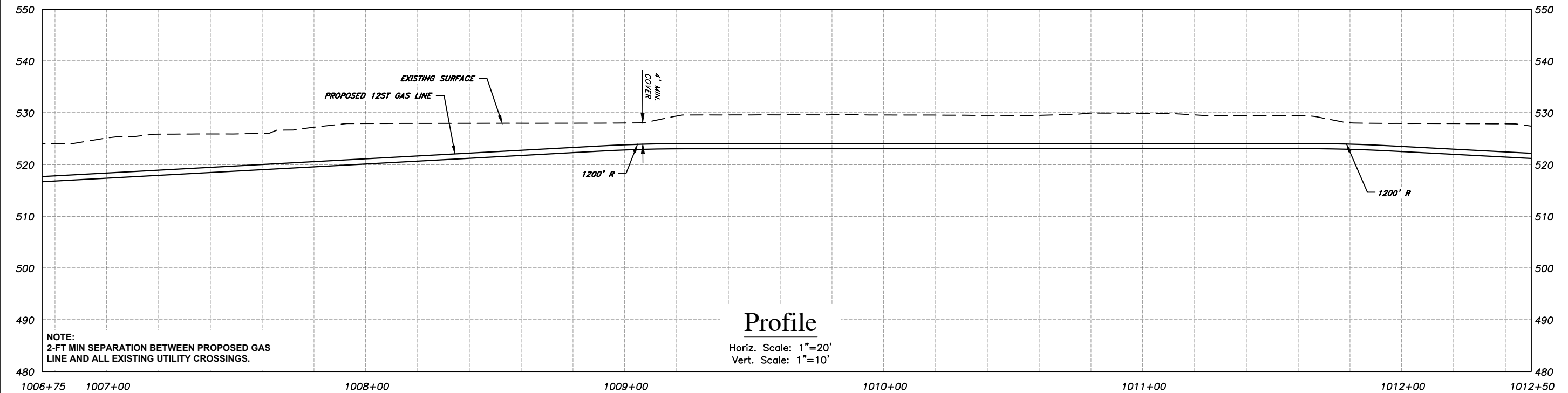
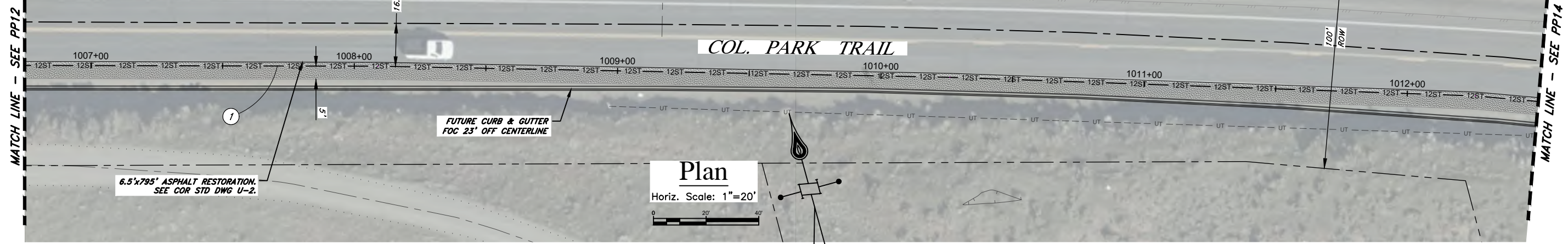
- KEYED NOTES**
- (A) POTHOLE AND PROTECT EXISTING GAS LINE CROSSING
 - (B) POTHOLE AND PROTECT EXISTING WATER LINE CROSSING
 - (C) POTHOLE AND PROTECT EXISTING BURIED POWER CROSSING
 - (D) POTHOLE AND PROTECT EXISTING STORM DRAIN CROSSING
 - (E) POTHOLE AND PROTECT EXISTING FIBER OPTIC CROSSING
 - (F) POTHOLE AND PROTECT EXISTING IRRIGATION CROSSING
 - (G) POTHOLE AND PROTECT EXISTING SEWER CROSSING
 - (H) POTHOLE AND PROTECT EXISTING ABANDONED UNKNOWN UTILITY

CALL BEFORE YOU DIG:
 UTILITIES UNDERGROUND
 LOCATION CENTER
811

CONTRACTOR TO VERIFY SIZE, TYPE AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY PROJECT ENGINEER IMMEDIATELY IF CONFLICTS ARISE.

PRELIMINARY

- NOTES:**
1. THESE PLAN EXHIBITS ARE BASED ON INFORMATION OBTAINED FROM CITY OF RICHLAND GIS DATA. THE UTILITY EASEMENTS, PARCEL BOUNDARIES, AND RIGHT-OF-WAY LIMITS ARE SOLELY BASED ON GIS INFORMATION. FIELD TOPOGRAPHICAL SURVEYS WERE PERFORMED TO ESTABLISH LOCATIONS AND ELEVATIONS OF VISIBLE / ACCESSIBLE UTILITIES. NO VERIFICATION OF THE LOCATIONS OF GIS DATA WAS CONDUCTED.
 2. ALL PAVEMENT MARKINGS SHALL BE RESTORED TO PRE-PROJECT CONDITIONS.



NO	REVISION	BY	DATE

Approved For Construction

By: _____ Date: _____

TITLE: _____

Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION

8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON Scale: 1"=20'
 CAD Review: M BITTON Grid #: 6-R
 Engineer: T HENDERSON Date: 11/23/21
 Design Review: R SORENSEN
 Parent Work Order #: 279575
 Work Order Number: 279575
 Drawing No: 237441020197

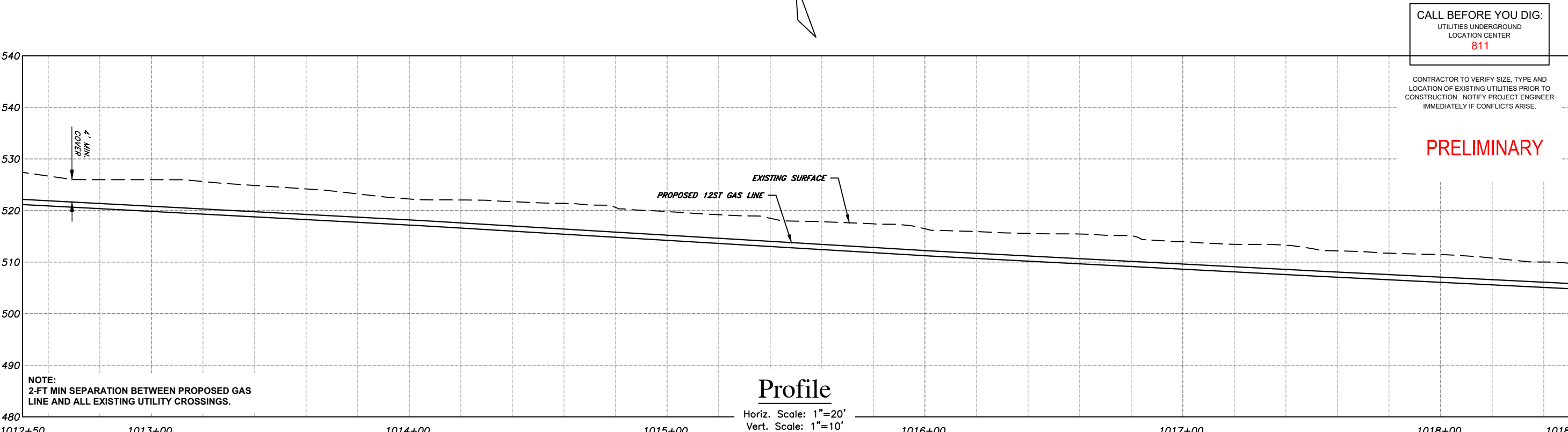
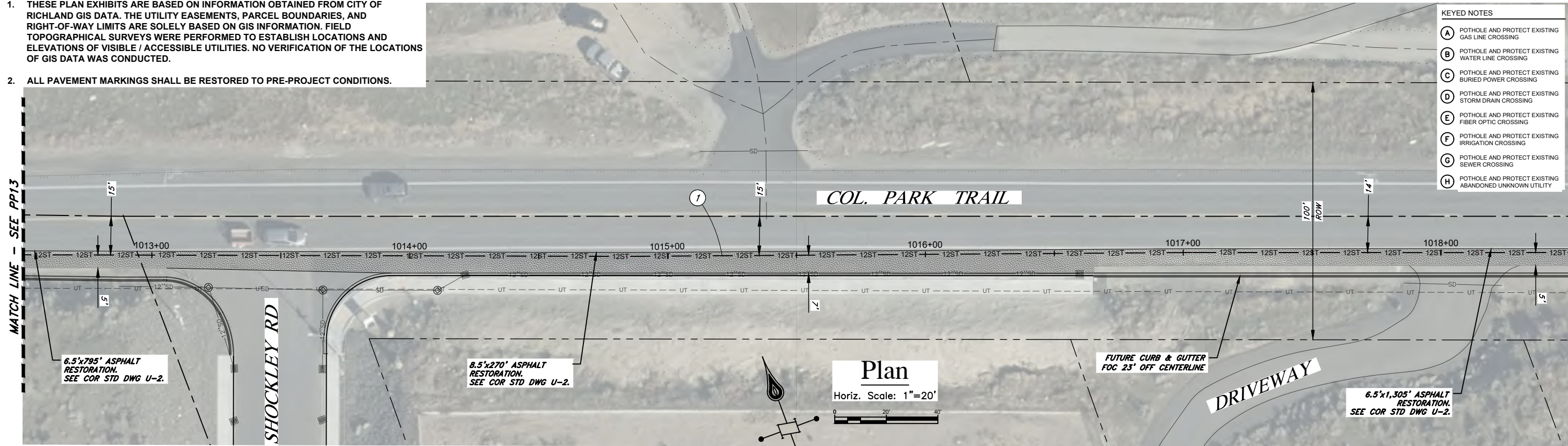
Richland HP Extension - Phase I
 Col. Park Trail 12" HP
 Richland, WA
 Benton County
 Plan Sheet - STA. 1006+75 to 1012+50
 Sec 25 Town 9N Rng 28E

PP13

18 OF 42

- NOTES:**
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 - (B) POT HOLE AND PROTECT EXISTING WATER LINE CROSSING
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 - (D) POT HOLE AND PROTECT EXISTING STORM DRAIN CROSSING
 - (E) POT HOLE AND PROTECT EXISTING FIBER OPTIC CROSSING
 - (F) POT HOLE AND PROTECT EXISTING IRRIGATION CROSSING
 - (G) POT HOLE AND PROTECT EXISTING SEWER CROSSING
 - (H) POT HOLE AND PROTECT EXISTING ABANDONED UNKNOWN UTILITY



CALL BEFORE YOU DIG:
 UTILITIES UNDERGROUND
 LOCATION CENTER
811

CONTRACTOR TO VERIFY SIZE, TYPE AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY PROJECT ENGINEER IMMEDIATELY IF CONFLICTS ARISE.

PRELIMINARY

NO	REVISION	BY	DATE

Approved For Construction

By: _____ Date: _____

TITLE: _____

Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION

8113 W Grandridge Blvd Kennewick, WA 99336

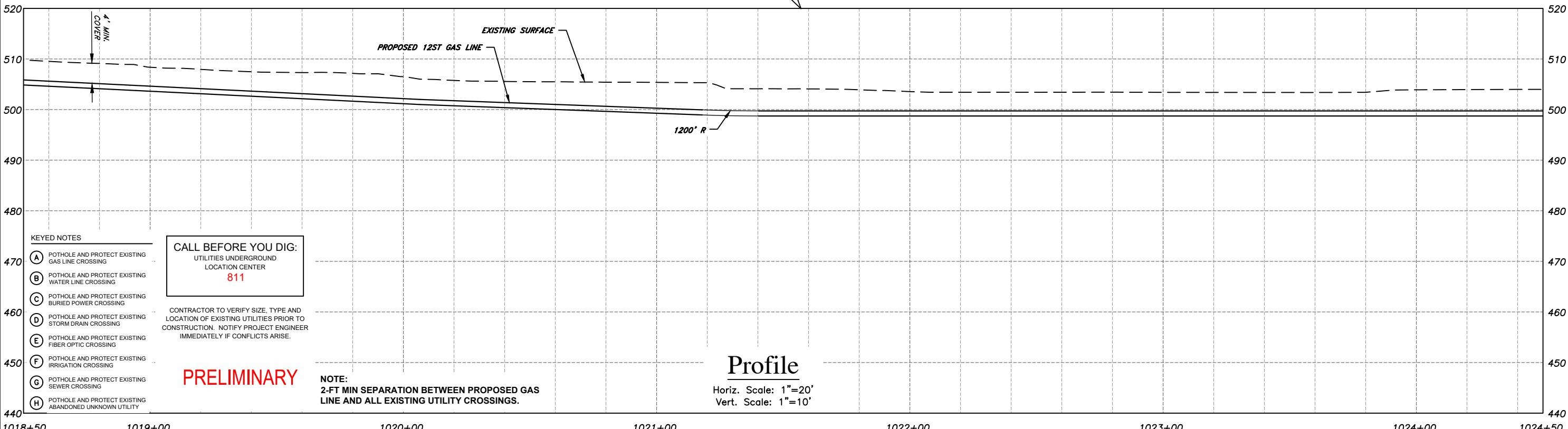
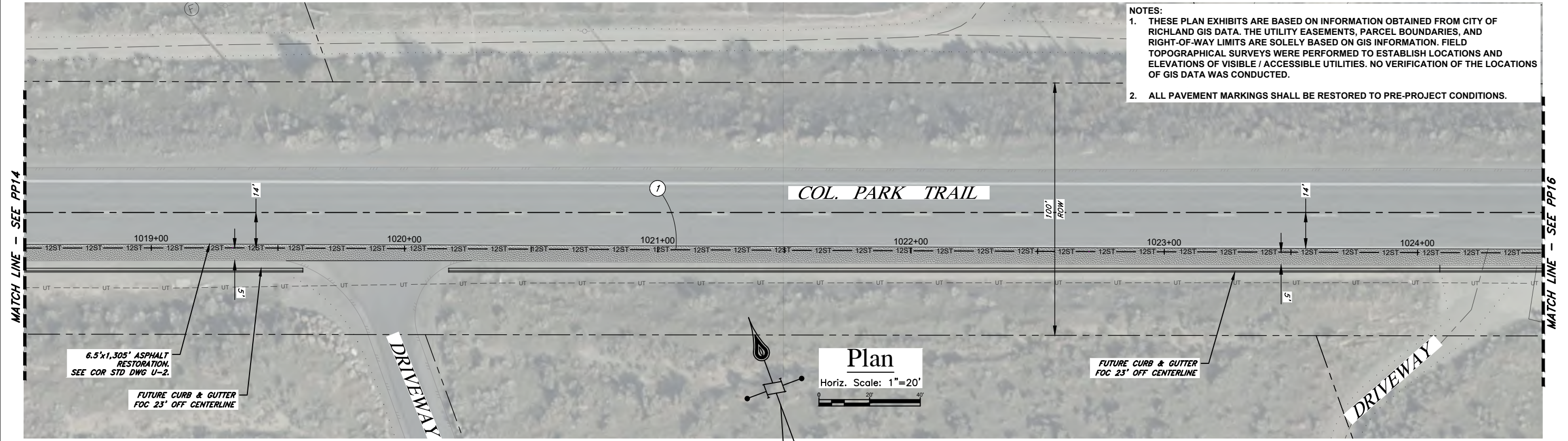
CAD Tech: M WILKINSON Scale: 1"=20'
 CAD Review: M BITTON Grid #: 6-R
 Engineer: T HENDERSON Date: 11/23/21
 Design Review: R SORENSEN
 Parent Work Order #: 279575
 Work Order Number: 279575
 Drawing No: 237441020197

Richland HP Extension - Phase I
 Col. Park Trail 12" HP
 Richland, WA
 Benton County
 Plan Sheet - STA. 1012+50 to 1018+50
 Sec 25 Town 9N Rng 28E

PP14

19 OF 42

- NOTES:**
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 - (G) POTHOLE AND PROTECT EXISTING SEWER CROSSING
 - (H) POTHOLE AND PROTECT EXISTING ABANDONED UNKNOWN UTILITY
- CALL BEFORE YOU DIG:**
UTILITIES UNDERGROUND
LOCATION CENTER
811
- CONTRACTOR TO VERIFY SIZE, TYPE AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY PROJECT ENGINEER IMMEDIATELY IF CONFLICTS ARISE.
- PRELIMINARY**

NOTE:
2-FT MIN SEPARATION BETWEEN PROPOSED GAS LINE AND ALL EXISTING UTILITY CROSSINGS.

Profile
Horiz. Scale: 1"=20'
Vert. Scale: 1"=10'

NO	REVISION	BY	DATE

Approved For Construction

By: _____ Date: _____

TITLE: _____

Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION

8113 W Grandridge Blvd Kennewick, WA 99336

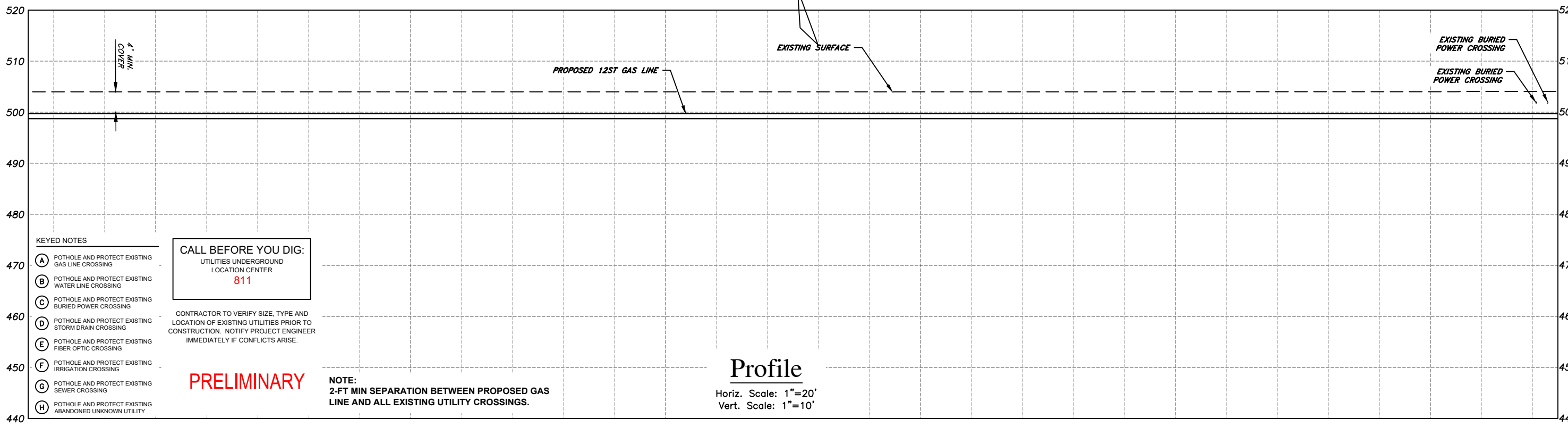
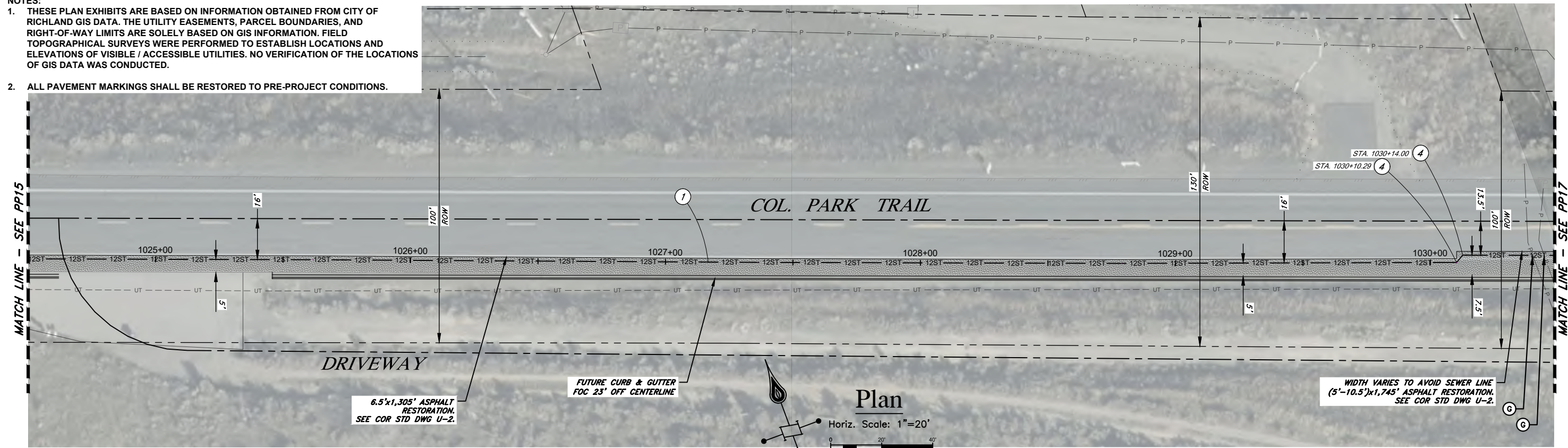
CAD Tech: M WILKINSON	Scale: 1"=20'
CAD Review: M BITTON	Grid #: 6-R
Engineer: T HENDERSON	Date: 11/23/21
Design Review: R SORENSEN	
Parent Work Order #: 279575	
Work Order Number: 279575	
Drawing No: 237441020197	

Richland HP Extension - Phase I
Col. Park Trail 12" HP
Richland, WA
Benton County
Plan Sheet - STA. 1018+50 to 1024+50
Sec 25 Town 9N Rng 28E

PP15

20 OF 42

- NOTES:**
1. THESE PLAN EXHIBITS ARE BASED ON INFORMATION OBTAINED FROM CITY OF RICHLAND GIS DATA. THE UTILITY EASEMENTS, PARCEL BOUNDARIES, AND RIGHT-OF-WAY LIMITS ARE SOLELY BASED ON GIS INFORMATION. FIELD TOPOGRAPHICAL SURVEYS WERE PERFORMED TO ESTABLISH LOCATIONS AND ELEVATIONS OF VISIBLE / ACCESSIBLE UTILITIES. NO VERIFICATION OF THE LOCATIONS OF GIS DATA WAS CONDUCTED.
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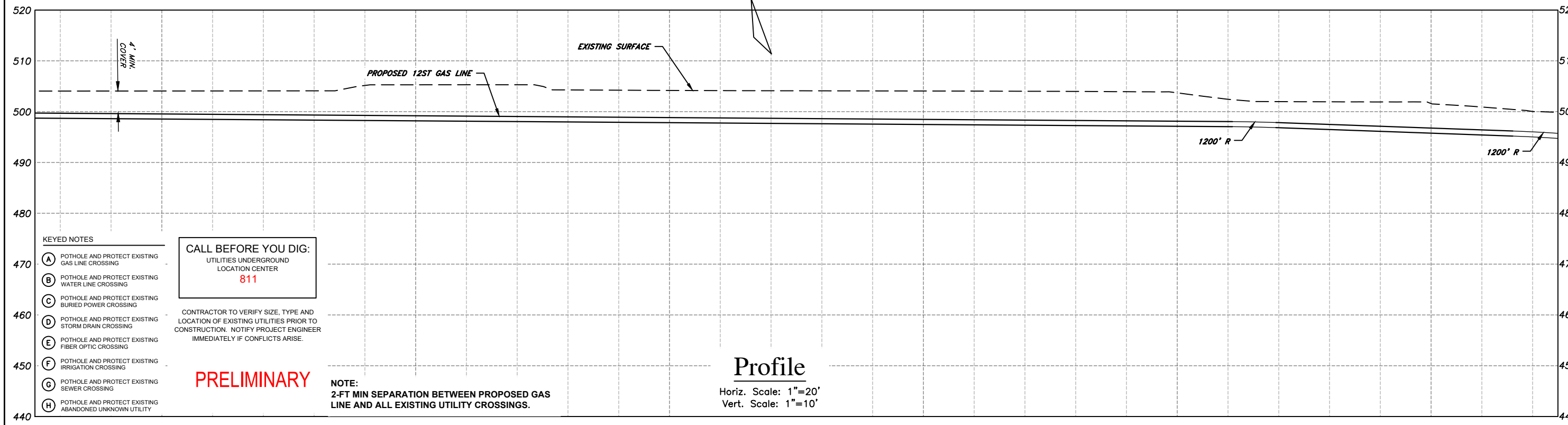
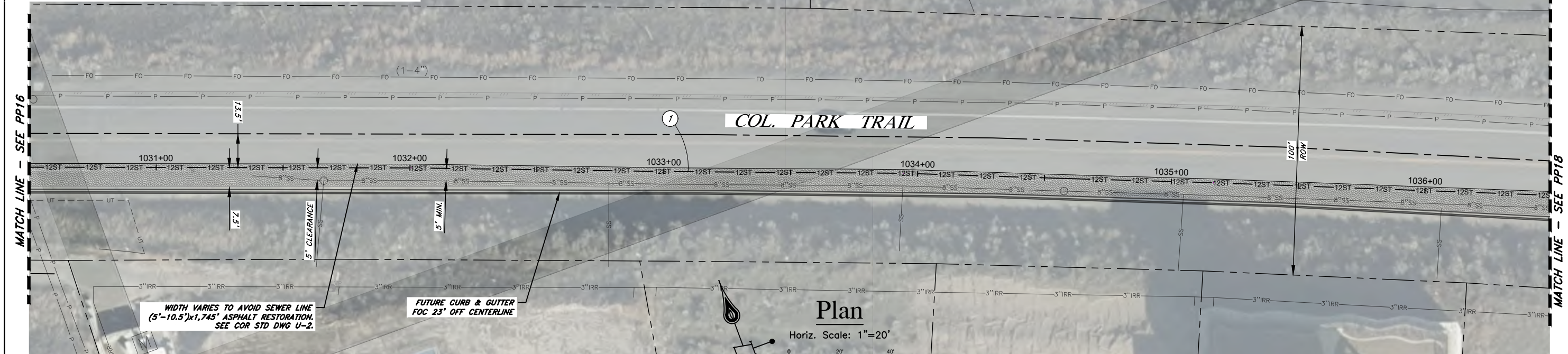


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 - (B) POTHOLE AND PROTECT EXISTING WATER LINE CROSSING
 - (C) POTHOLE AND PROTECT EXISTING BURIED POWER CROSSING
 - (D) POTHOLE AND PROTECT EXISTING STORM DRAIN CROSSING
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 - (G) POTHOLE AND PROTECT EXISTING SEWER CROSSING
 - (H) POTHOLE AND PROTECT EXISTING ABANDONED UNKNOWN UTILITY
- CALL BEFORE YOU DIG:**
 UTILITIES UNDERGROUND LOCATION CENTER
811
- CONTRACTOR TO VERIFY SIZE, TYPE AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY PROJECT ENGINEER IMMEDIATELY IF CONFLICTS ARISE.
- PRELIMINARY**
- NOTE:**
 2-FT MIN SEPARATION BETWEEN PROPOSED GAS LINE AND ALL EXISTING UTILITY CROSSINGS.

				Approved For Construction		CASCADE NATURAL GAS CORPORATION 8113 W Grandridge Blvd Kennewick, WA 99336		CAD Tech: M WILKINSON		Scale: 1"=20'		Richland HP Extension - Phase I Col. Park Trail 12" HP Richland, WA Benton County Plan Sheet - STA.1024+50 to 1030+50 Sec 25 Town 9N Rng 28E	PP16
				By: _____ Date _____				CAD Review: M BITTON		Grid #: 4-S			
				TITLE: _____				Engineer: T HENDERSON		Date: 11/23/21			
				Approval Expires: _____ Date _____				Design Review: R SORENSEN		Parent Work Order #: 279575			
NO	REVISION	BY	DATE					Work Order Number: 279575					
								Drawing No: 237441020197					

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CALL BEFORE YOU DIG:
UTILITIES UNDERGROUND
LOCATION CENTER
811

CONTRACTOR TO VERIFY SIZE, TYPE AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY PROJECT ENGINEER IMMEDIATELY IF CONFLICTS ARISE.

PRELIMINARY

NOTE:
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NO	REVISION	BY	DATE

Approved For Construction

By: _____ Date: _____

TITLE: _____

Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION

8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON Scale: 1"=20'

CAD Review: M BITTON Grid #: 5-S

Engineer: T HENDERSON Date: 11/23/21

Design Review: R SORENSEN

Parent Work Order #: 279575

Work Order Number: 279575

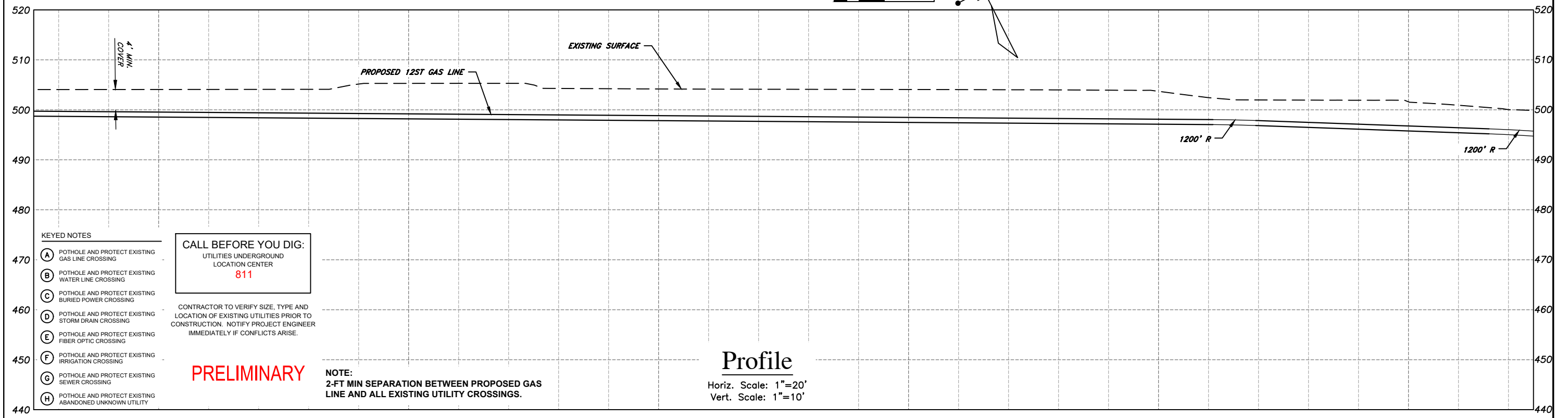
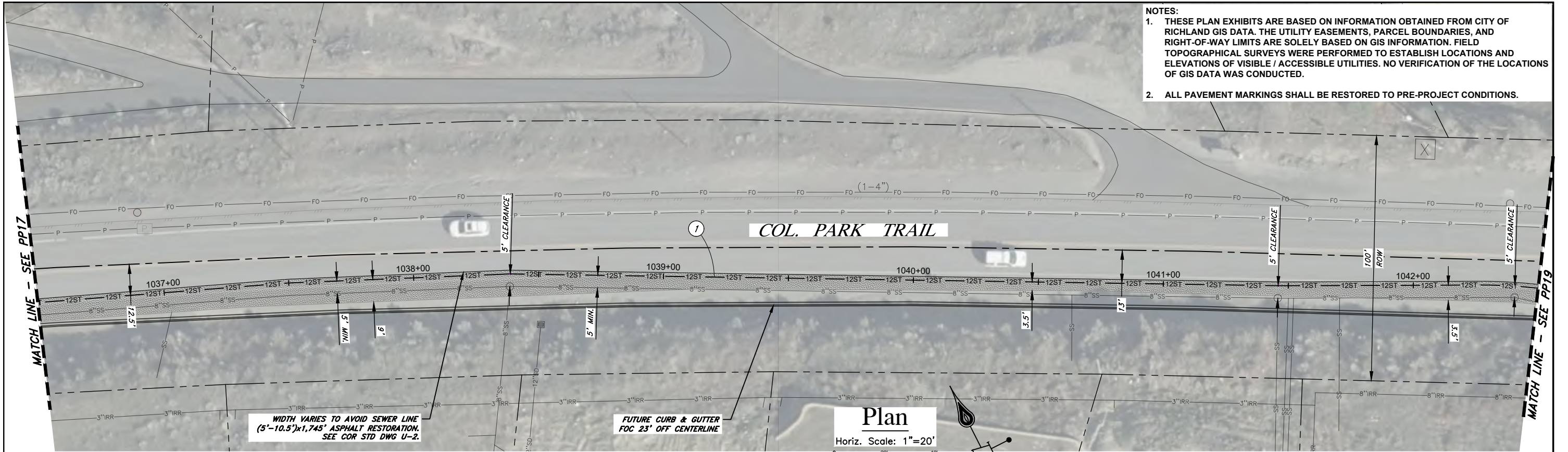
Drawing No: 237441020197

Richland HP Extension - Phase I
Col. Park Trail 12" HP
Richland, WA
Benton County
Plan Sheet - STA. 1030+50 to 1036+50
Sec 25 Town 9N Rng 28E

PP17

22 OF 42

- NOTES:**
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CALL BEFORE YOU DIG:
UTILITIES UNDERGROUND
LOCATION CENTER
811

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NOTE:
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Profile

Horiz. Scale: 1"=20'
Vert. Scale: 1"=10'

NO	REVISION	BY	DATE

Approved For Construction

By: _____ Date _____

TITLE: _____

Approval Expires: _____ Date _____

CASCADE NATURAL GAS CORPORATION

8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON Scale: 1"=20'
CAD Review: M BITTON Grid #: 5-5
Engineer: T HENDERSON Date: 11/23/21
Design Review: R SORENSEN
Parent Work Order #: 279575
Work Order Number: 279575
Drawing No: 237441020197

Richland HP Extension - Phase I
Col. Park Trail 12" HP
Richland, WA
Benton County
Plan Sheet - STA. 1036+50 to 1042+50
Sec 25 Town 9N Rng 28E

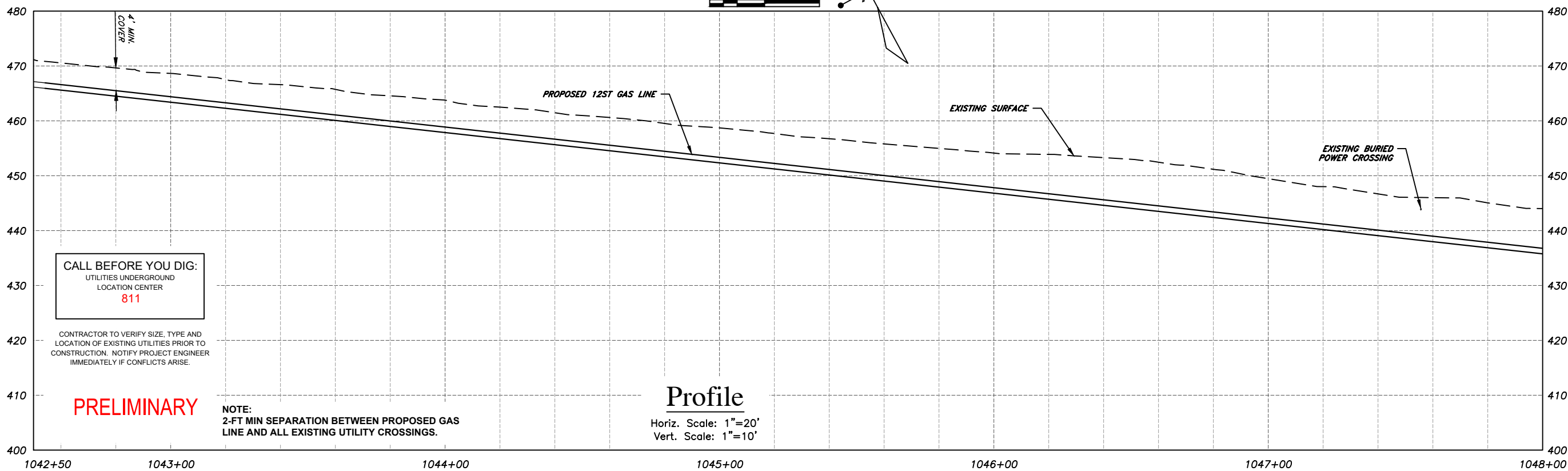
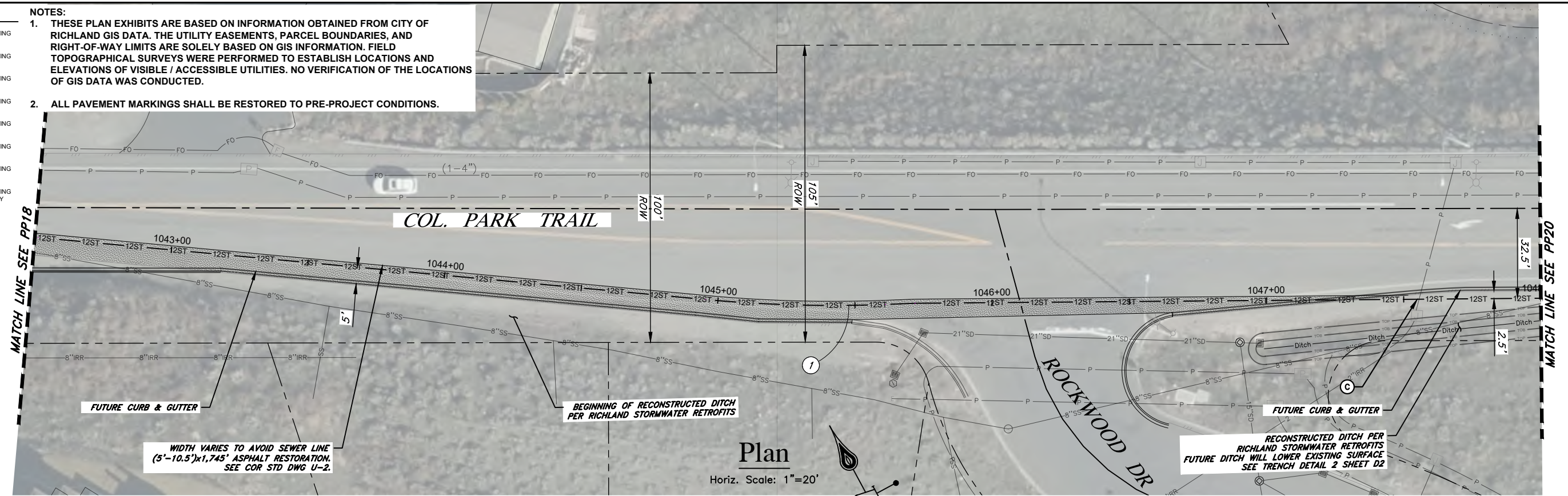
PP18

23 OF 42

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NO	REVISION	BY	DATE

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CASCADE NATURAL GAS CORPORATION

8113 W Grandridge Blvd Kennecook, WA 99336

CAD Tech: M WILKINSON Scale: 1"=20'

CAD Review: M BITTON Grid #: 5-S

Engineer: T HENDERSON Date: 11/23/21

Design Review: R SORENSEN

Parent Work Order #: 279575

Work Order Number: 279575

Drawing No: 237441020197

Richland HP Extension - Phase I
Col. Park Trail 12" HP
Richland, WA
Benton County
Plan Sheet - STA. 1042+50 to 1048+50
Sec 25 Town 9N Rng 28E

PP19

24 OF 42

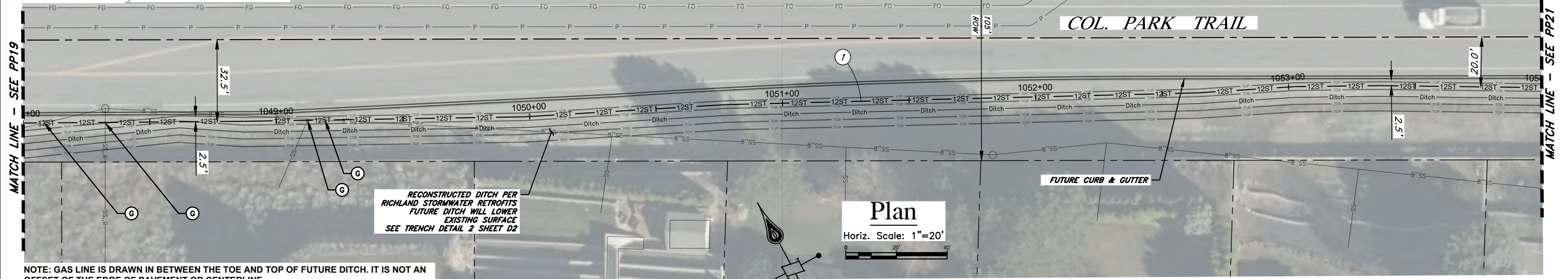
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CALL BEFORE YOU DIG:
 UTILITIES UNDERGROUND
 LOCATION CENTER
811

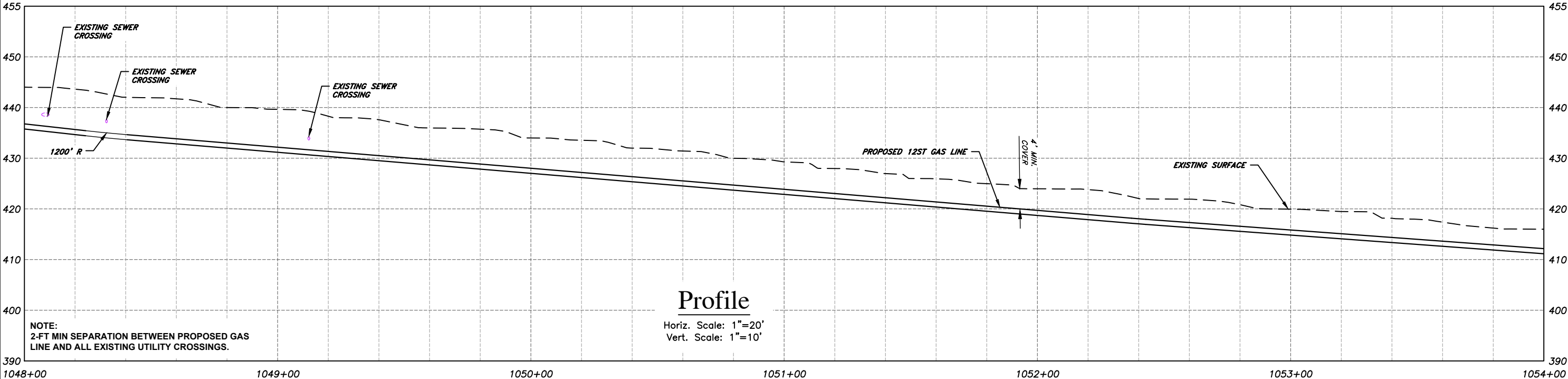
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NOTE: GAS LINE IS DRAWN IN BETWEEN THE TOE AND TOP OF FUTURE DITCH. IT IS NOT AN OFFSET OF THE EDGE OF PAVEMENT OR CENTERLINE.



NO	REVISION	BY	DATE

Approved For Construction

By: _____ Date: _____

TITLE: _____

Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION

8113 W Grandridge Blvd Kennecook, WA 99336

CAD Tech: M WILKINSON
 CAD Review: M BITTON
 Engineer: T HENDERSON
 Design Review: R SORENSEN
 Parent Work Order #: 279575
 Work Order Number: 279575
 Drawing No: 237441020197

Scale: 1"=20'
 Grid #: 5-S
 Date: 11/23/21

Richland HP Extension - Phase I
 Col. Park Trail 12" HP
 Richland, WA
 Benton County
 Plan Sheet - STA. 1048+00 to 1054+00
 Sec 25 Town 9N Rng 28E

PP20

25 OF 42

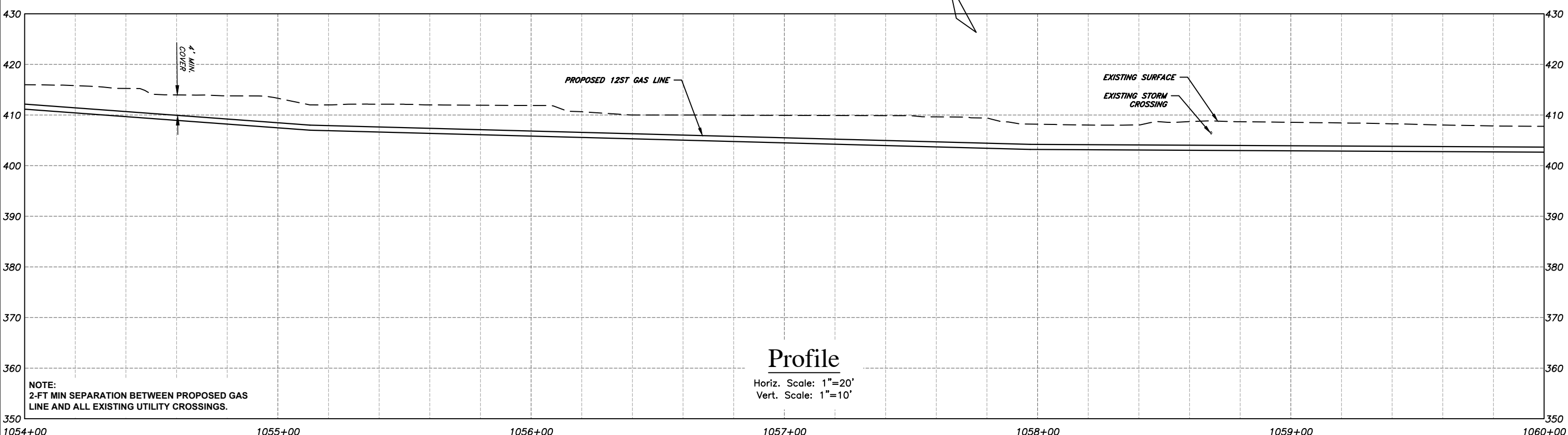
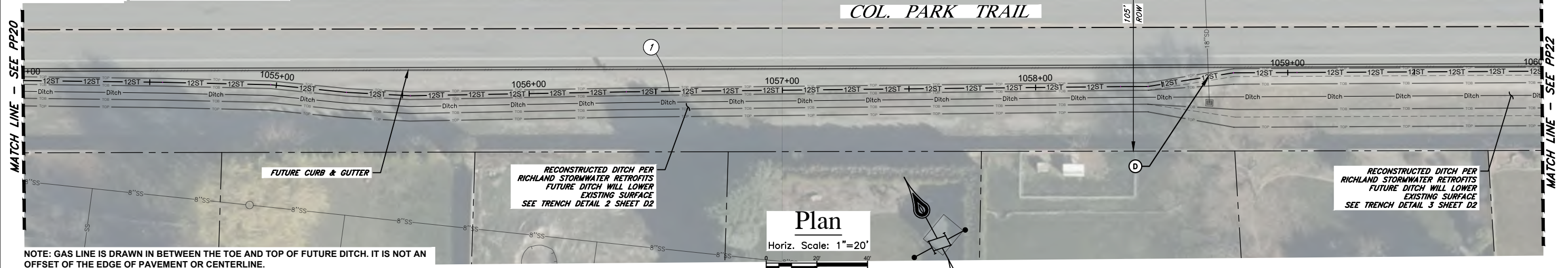
- KEYED NOTES**
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CALL BEFORE YOU DIG:
 UTILITIES UNDERGROUND
 LOCATION CENTER
811

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CAD Tech: M WILKINSON
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 Parent Work Order #: 279575
 Work Order Number: 279575
 Drawing No: 237441020197

Scale: 1"=20'
 Grid #: 5-S
 Date: 11/23/21

Richland HP Extension - Phase I
 Col. Park Trail 12" HP
 Richland, WA
 Benton County
 Plan Sheet - STA. 1054+00 to 1060+00
 Sec 25 Town 9N Rng 28E

PP21

24 OF 42

- KEYED NOTES**
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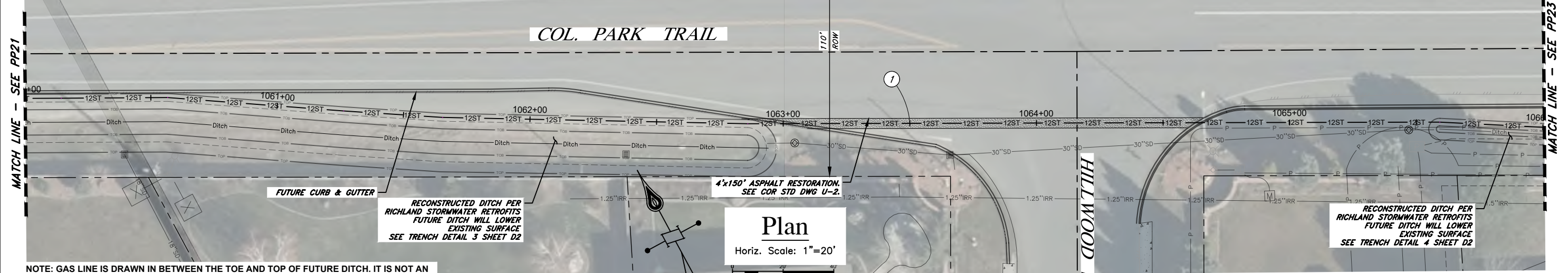
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 LOCATION CENTER
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PRELIMINARY

NOTES:

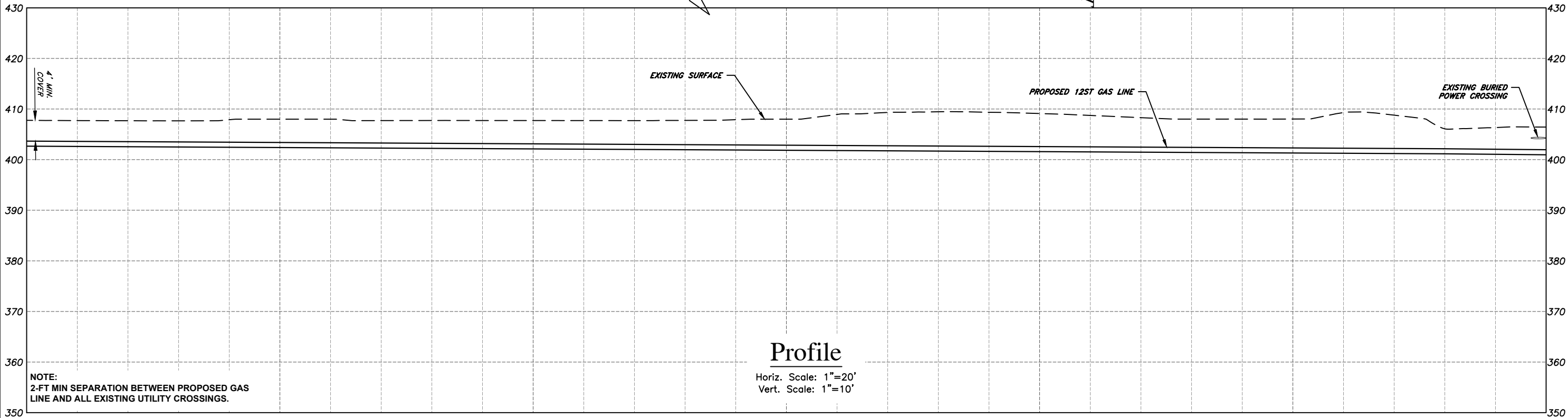
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Plan

Horiz. Scale: 1"=20'

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Profile

Horiz. Scale: 1"=20'
 Vert. Scale: 1"=10'

NOTE:
 2-FT MIN SEPARATION BETWEEN PROPOSED GAS LINE AND ALL EXISTING UTILITY CROSSINGS.

				Approved For Construction		CASCADE NATURAL GAS CORPORATION 8113 W Grandridge Blvd Kennewick, WA 99336		Scale: 1"=20'		PP22 27 OF 42	
				By: _____ Date: _____				Grid #: 5-S			
				TITLE: _____				Date: 11/23/21			
				Approval Expires: _____ Date: _____				Parent Work Order #: 279575			
								Richland HP Extension - Phase I Col. Park Trail 12" HP Richland, WA Benton County Plan Sheet - STA. 1060+00 to 1066+00			
								Work Order Number: 279575		Sec 25 Town 9N Rng 28E	
								Drawing No: 237441020197			
NO	REVISION	BY	DATE								

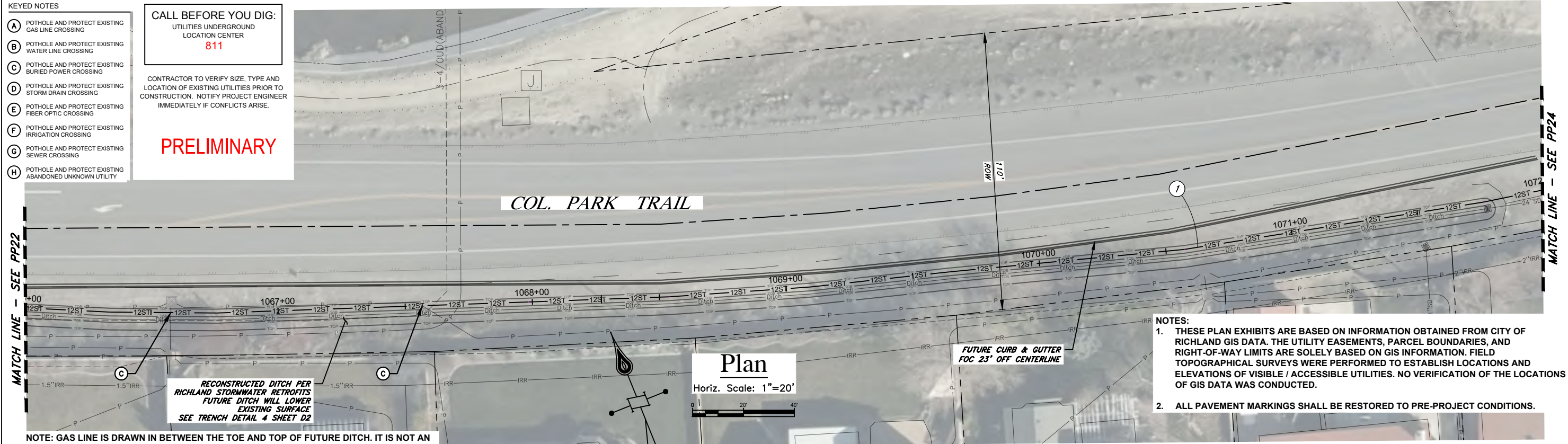
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- (H) POTHOLE AND PROTECT EXISTING ABANDONED UNKNOWN UTILITY

CALL BEFORE YOU DIG:
UTILITIES UNDERGROUND
LOCATION CENTER
811

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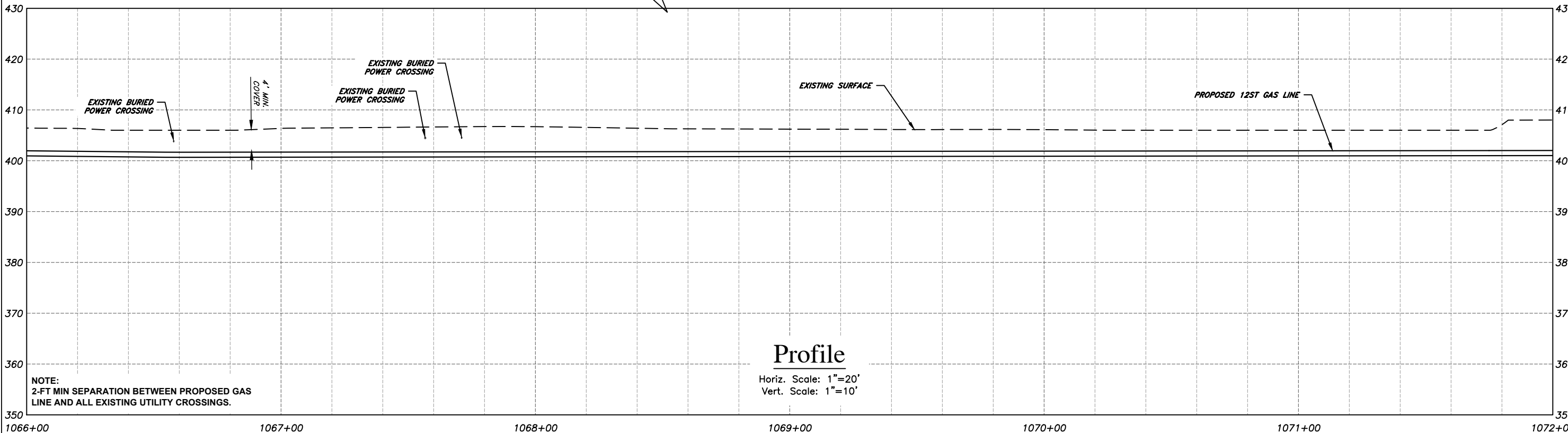
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NO	REVISION	BY	DATE

Approved For Construction

By: _____ Date: _____

TITLE: _____

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CASCADE NATURAL GAS CORPORATION

8113 W Grandridge Blvd Kennewick, WA 99336

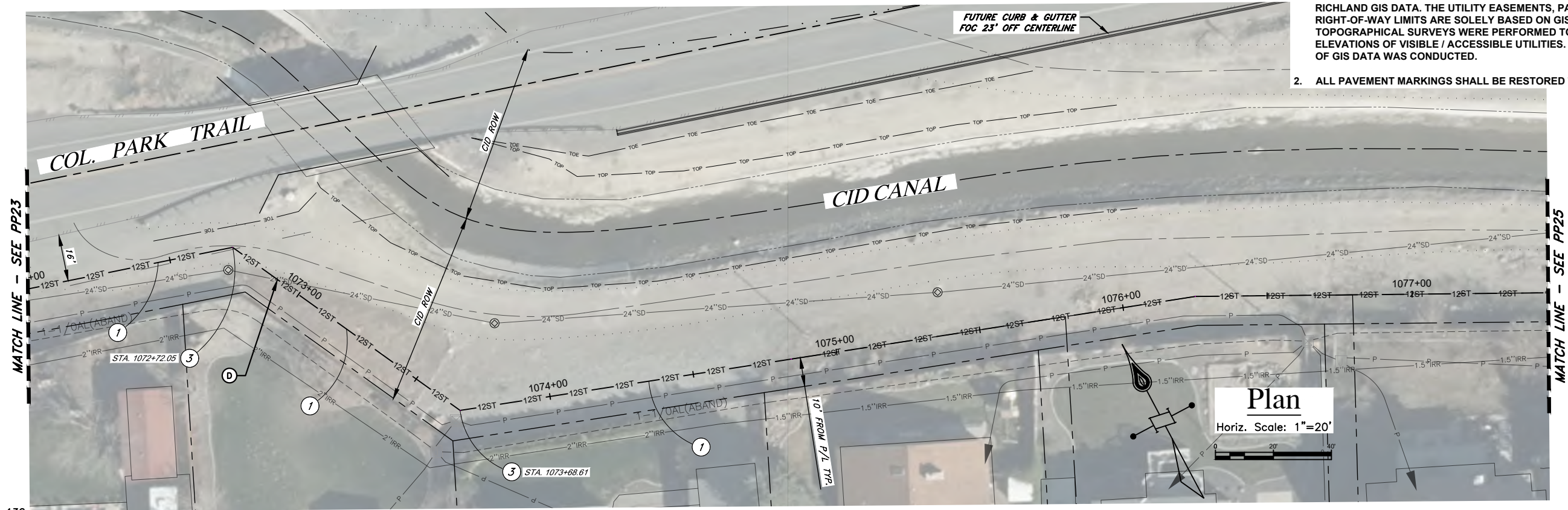
CAD Tech: M WILKINSON	Scale: 1"=20'
CAD Review: M BITTON	Grid #: 6-T
Engineer: T HENDERSON	Date: 11/23/21
Design Review: R SORENSEN	
Parent Work Order #: 279575	
Work Order Number: 279575	
Drawing No: 237441020197	

Richland HP Extension - Phase I
Col. Park Trail 12" HP
Richland, WA
Benton County
Plan Sheet - STA. 1066+00 to 1072+00
Sec 25 Town 9N Rng 28E

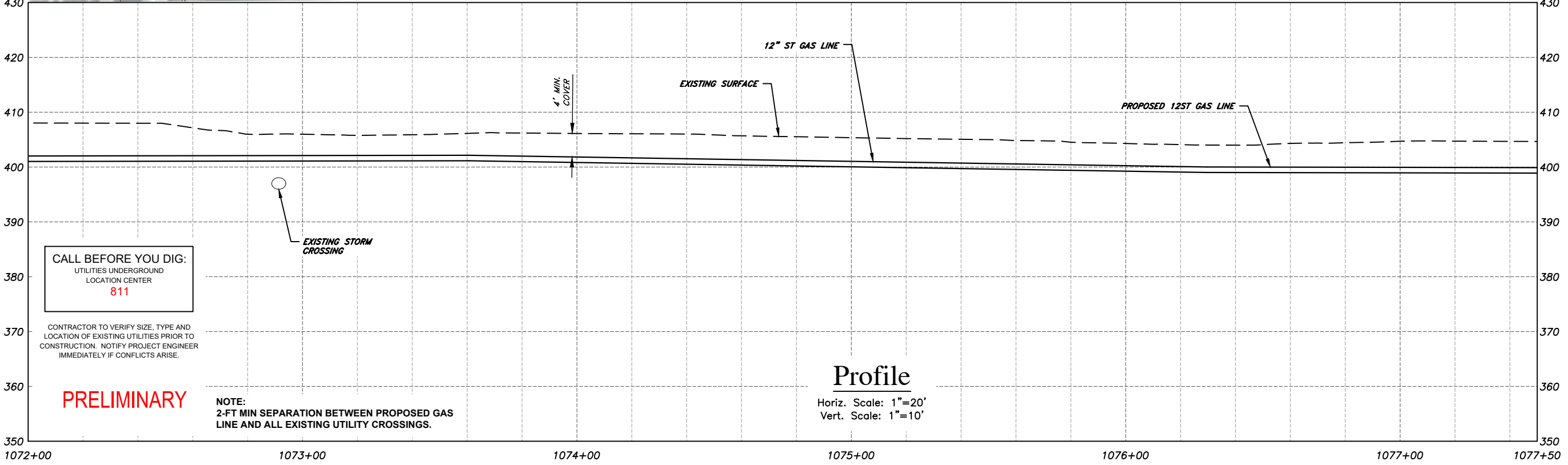
PP23

28 OF 42

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Profile

Horiz. Scale: 1"=20'
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8113 W Grandridge Blvd Kennewick, WA 99336

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 CAD Review: M BITTON Grid #: 6-T
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 Design Review: R SORENSEN
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 Benton County
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 Sec 25 Town 9N Rng 28E

PP24

29 OF 42

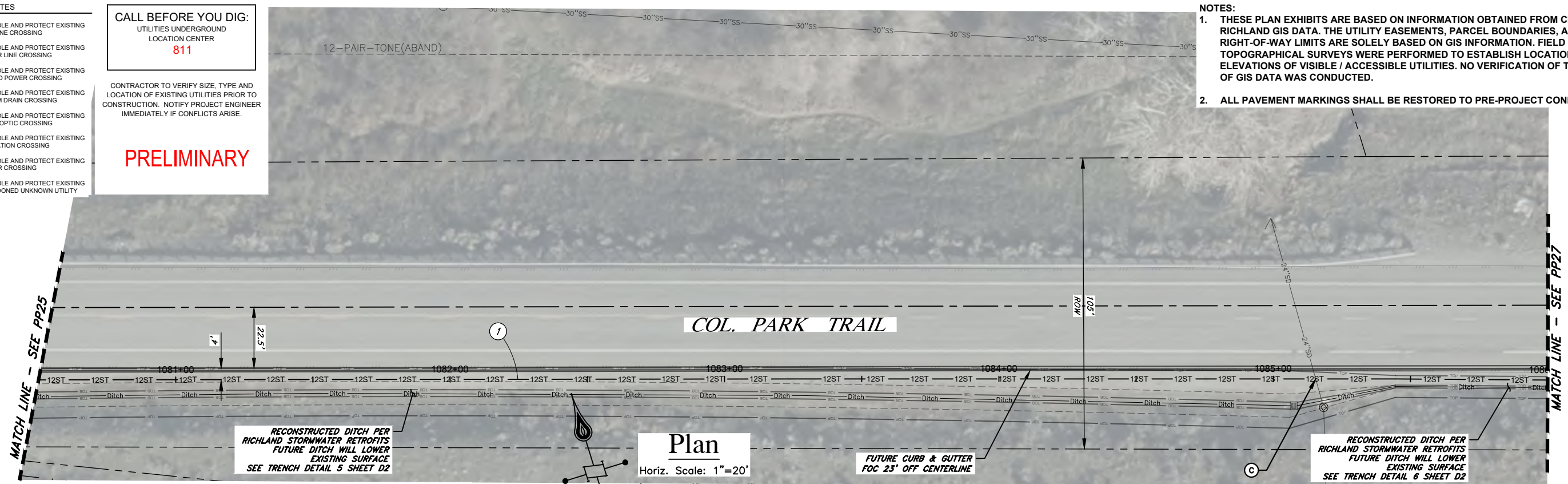
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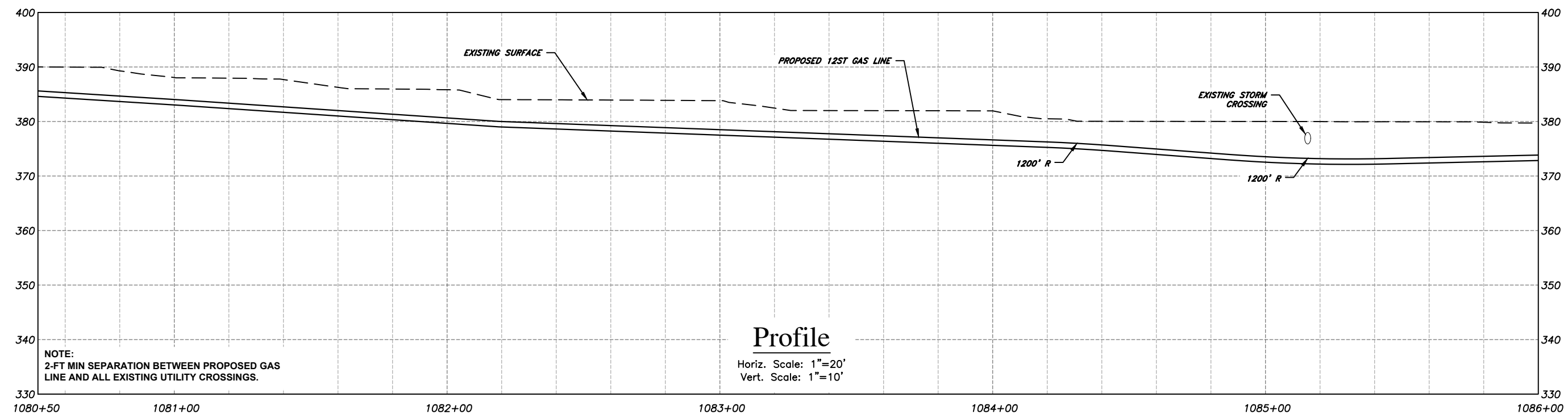
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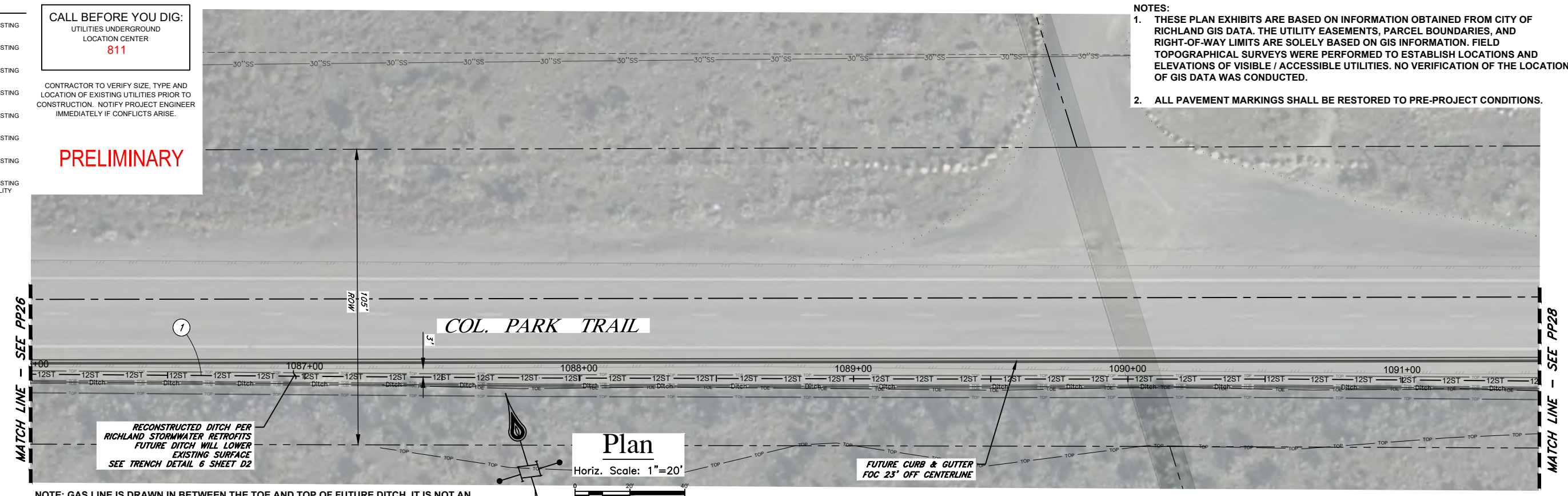
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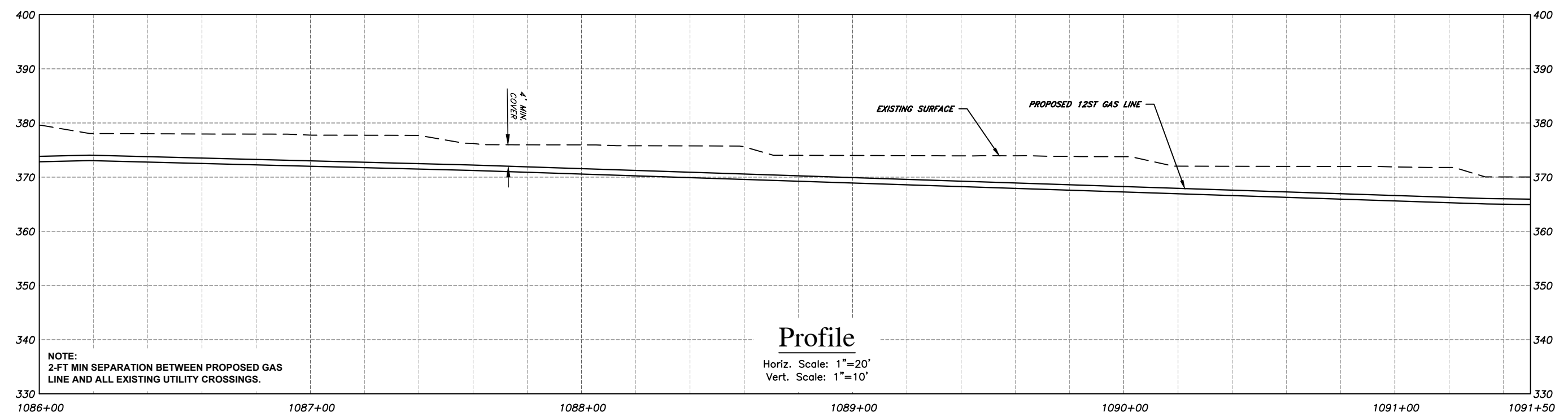
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 Sec 25 Town 9N Rng 28E

PP27

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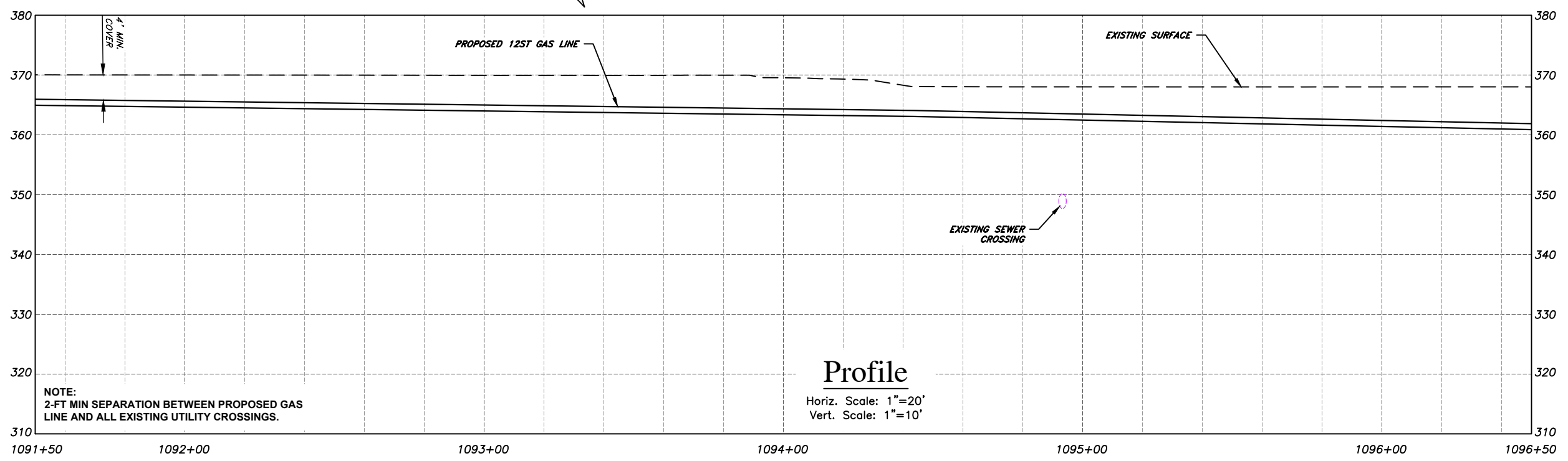
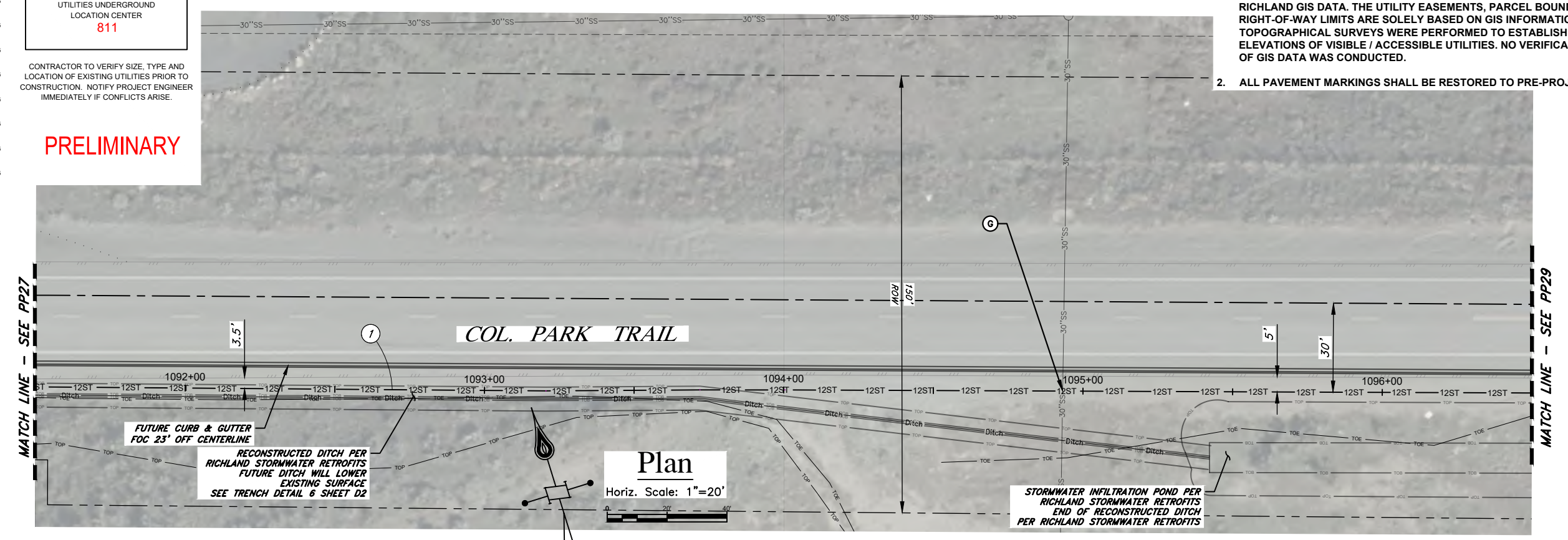
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Richland HP Extension - Phase I
 Col. Park Trail 12" HP
 Richland, WA
 Benton County
 Plan Sheet - STA. 1091+50 to 1096+50
 Sec 25 Town 9N Rng 28E

PP28

33 OF 42

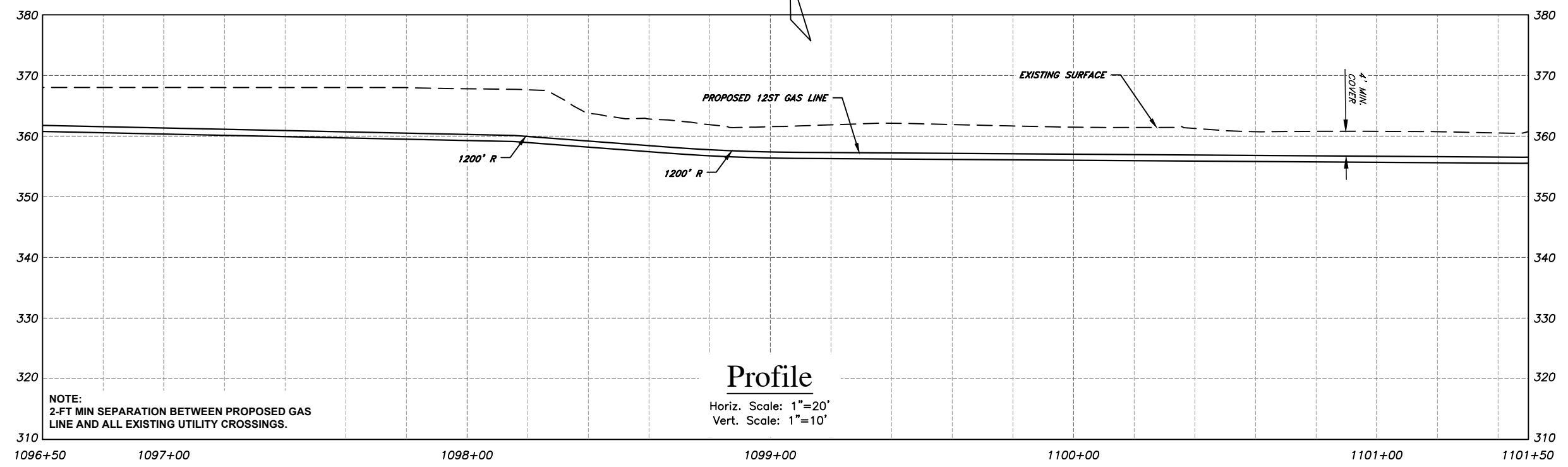
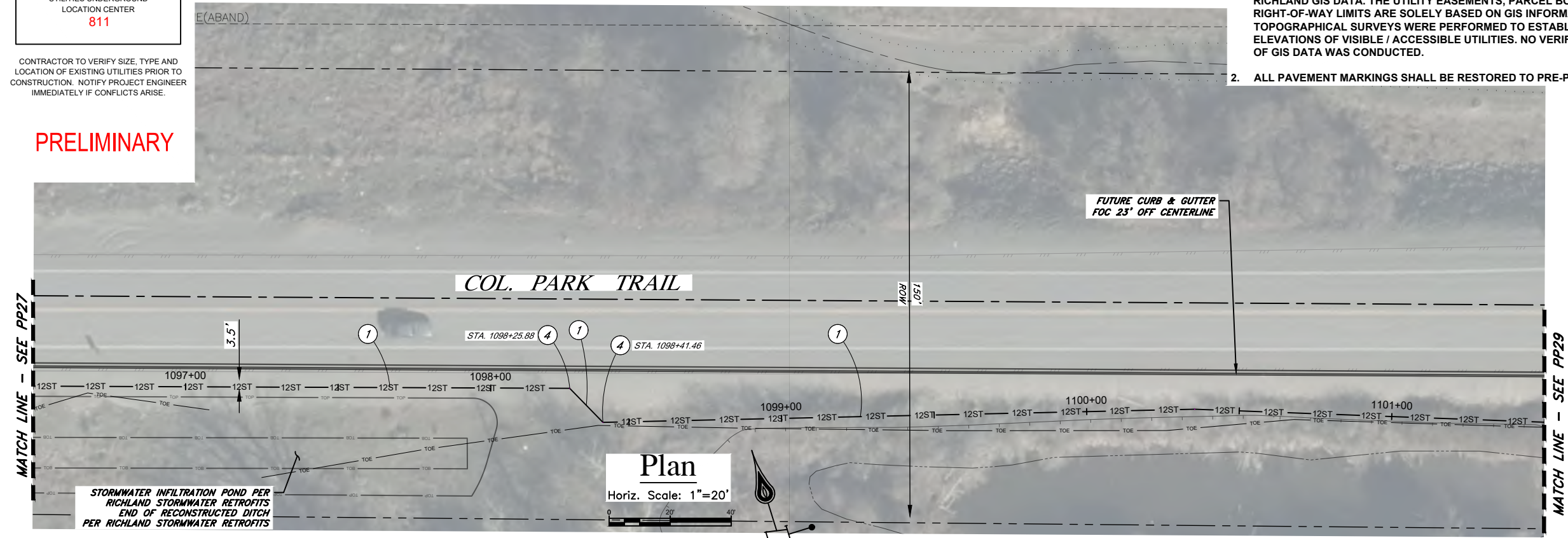
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 Plan Sheet - STA. 1096+50 to 1101+50

Sec 25 Town 9N Rng 28E

PP29

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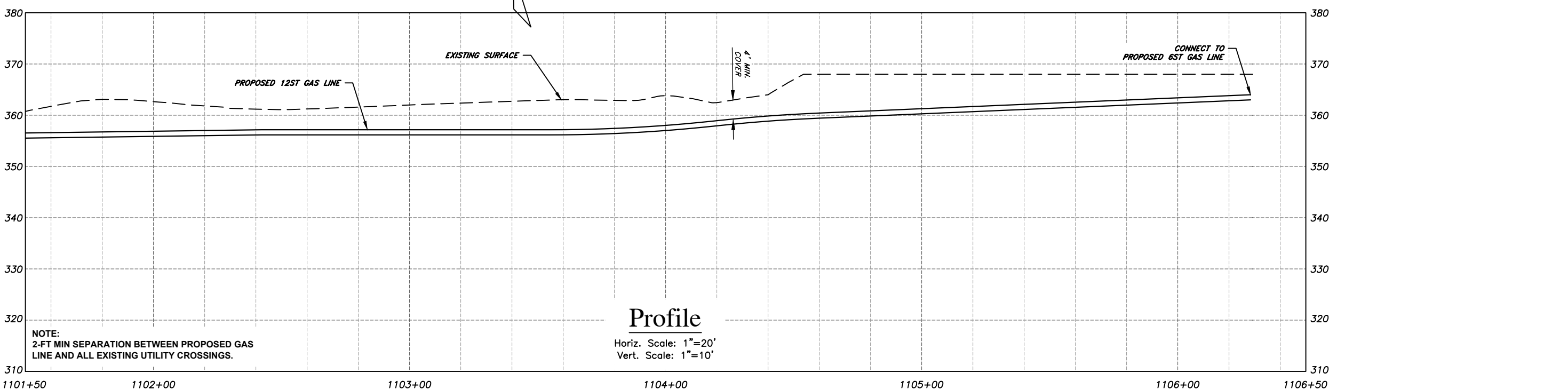
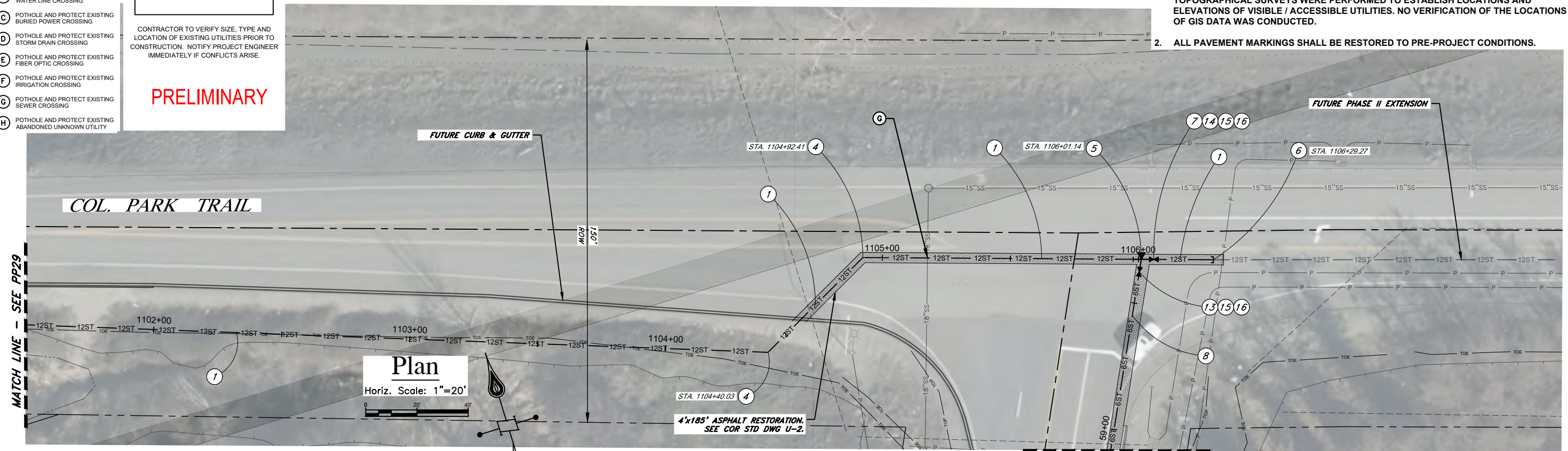
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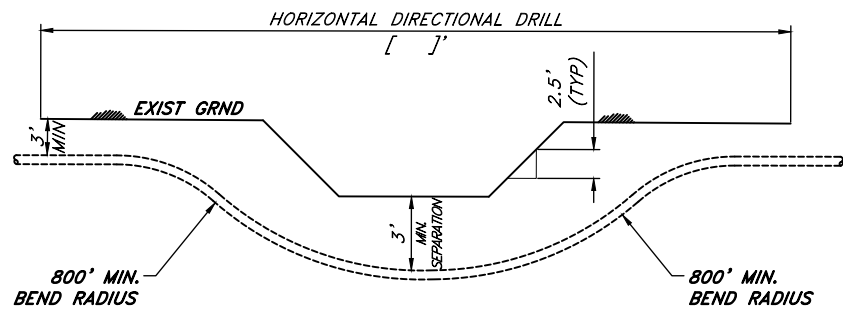
8113 W Grandridge Blvd Kennewick, WA 99336

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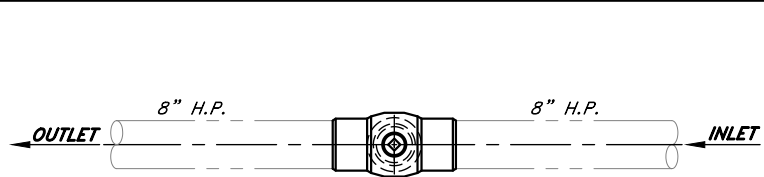
Richland HP Extension - Phase I
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 Benton County
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PP30

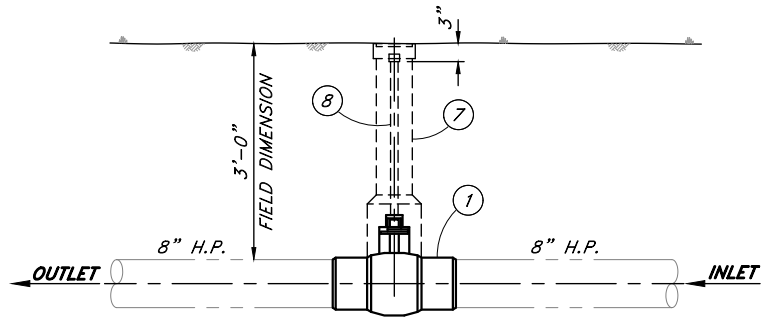
35 OF 42



HORIZONTAL DIRECTIONAL DRILL DETAIL
SCALE: NONE



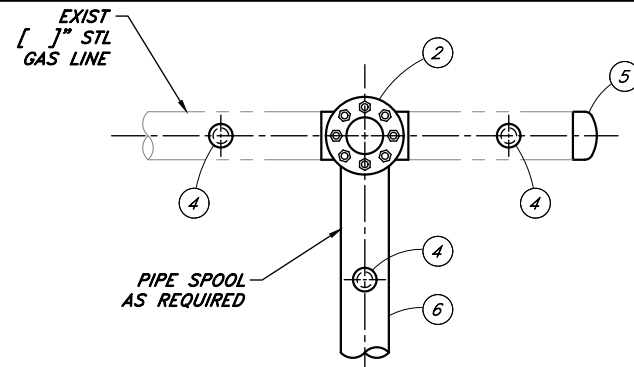
PLAN



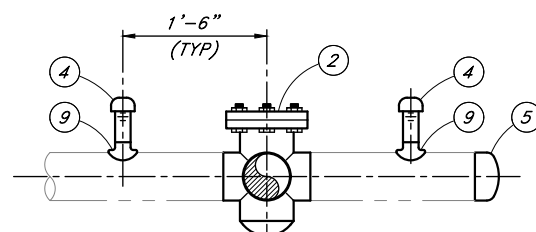
PROFILE

Note: All underground bare steel pipe to be field wrapped during installation.

VALVE INSTALLATION DETAIL
SCALE: NONE



PLAN

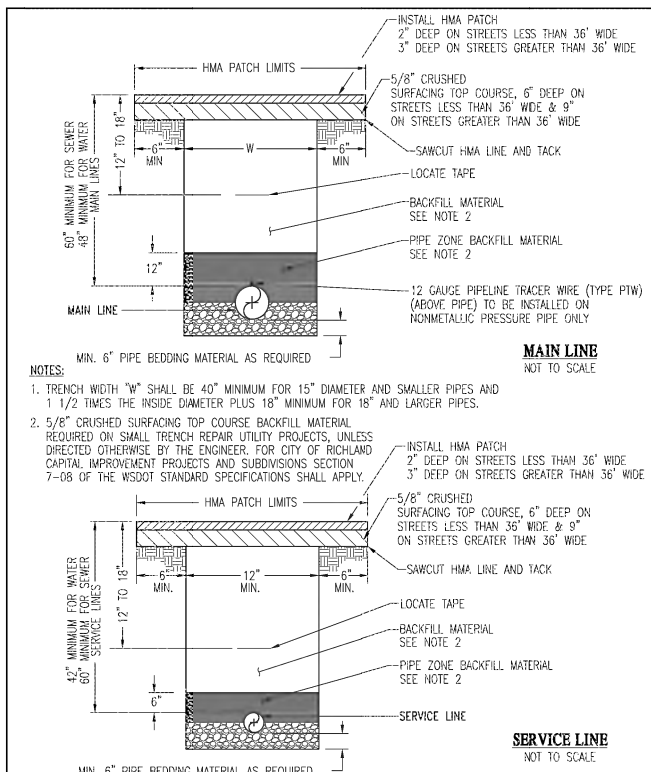


PROFILE

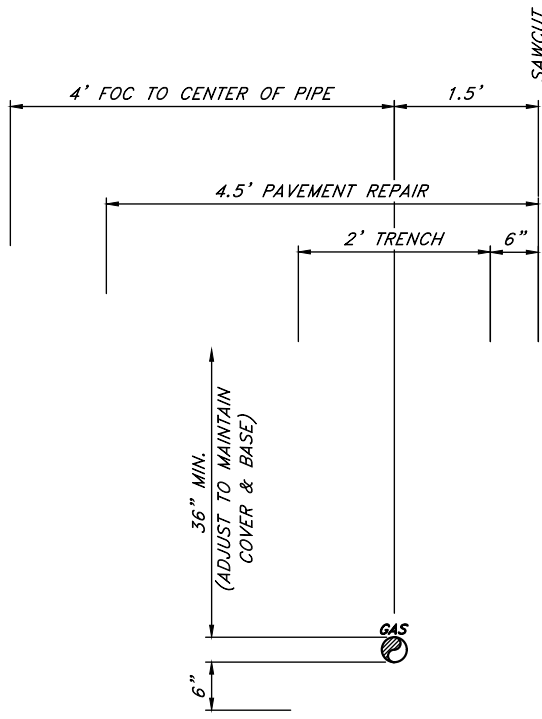
1/2" TIE-IN DETAIL W/SIDE OUT
SCALE: NONE

MATERIAL LIST

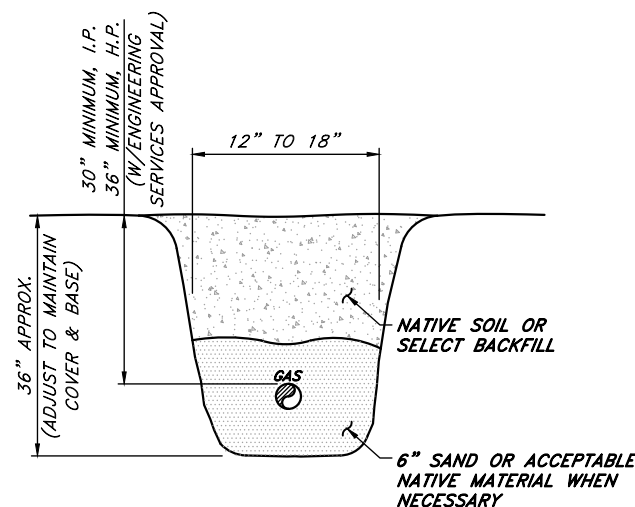
ITEM	PART NO	DESCRIPTION
1	NONE	8" Ballomax WxW Ball Valve Vert Gear, Fig #88MW740FPTRSBVGS
2	SP-709	8" Weld side out stopper, Mueller #H-17376, 720 P.S.I.G.
3	EL-701X52	8" 90° Standard Weight Weld Elbow Grade Y52
4	NP-210	1"x3" Save-A-Valve w/ steel cap, Mueller #H17491300, 1440 PSIG
5	CA-701X52	8" Standard Weight Weld Cap Grade Y52
6	PFBE-711X52	8"x0.322" Grade X-52, API 5L, PSL2, DRL, FBE coated steel line pipe
7	H-11	Ametek roadway valve box #5-155-24
8	H-210	High Head Extension Kit for Wrench Operated Ball Valves
9	SA-210	1"x8" Weld saddle, Domestic MFR



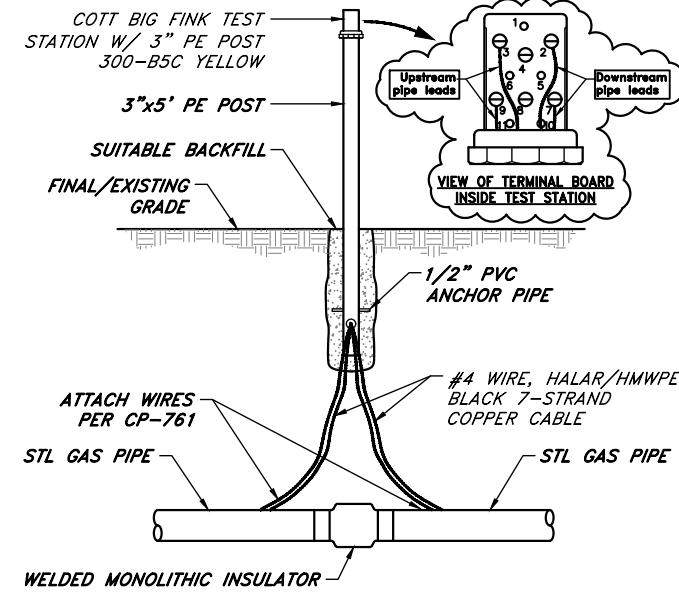
TRENCH DETAIL
PUBLIC WORKS ENGINEERING
APPR. BY: PKR DATE: 05.14
DRAWN BY: LD DWG: U2
CAD FILE: 2014_U2_05_2014



TRENCH - CURB/GUTTER LOCATIONS
SCALE: NONE



TRENCH - OUTSIDE ROADWAY
SCALE: NONE



MONOLITHIC TEST STATION
SCALE: NONE

Approved For Construction
By: _____ Date: _____
TITLE: _____
Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION
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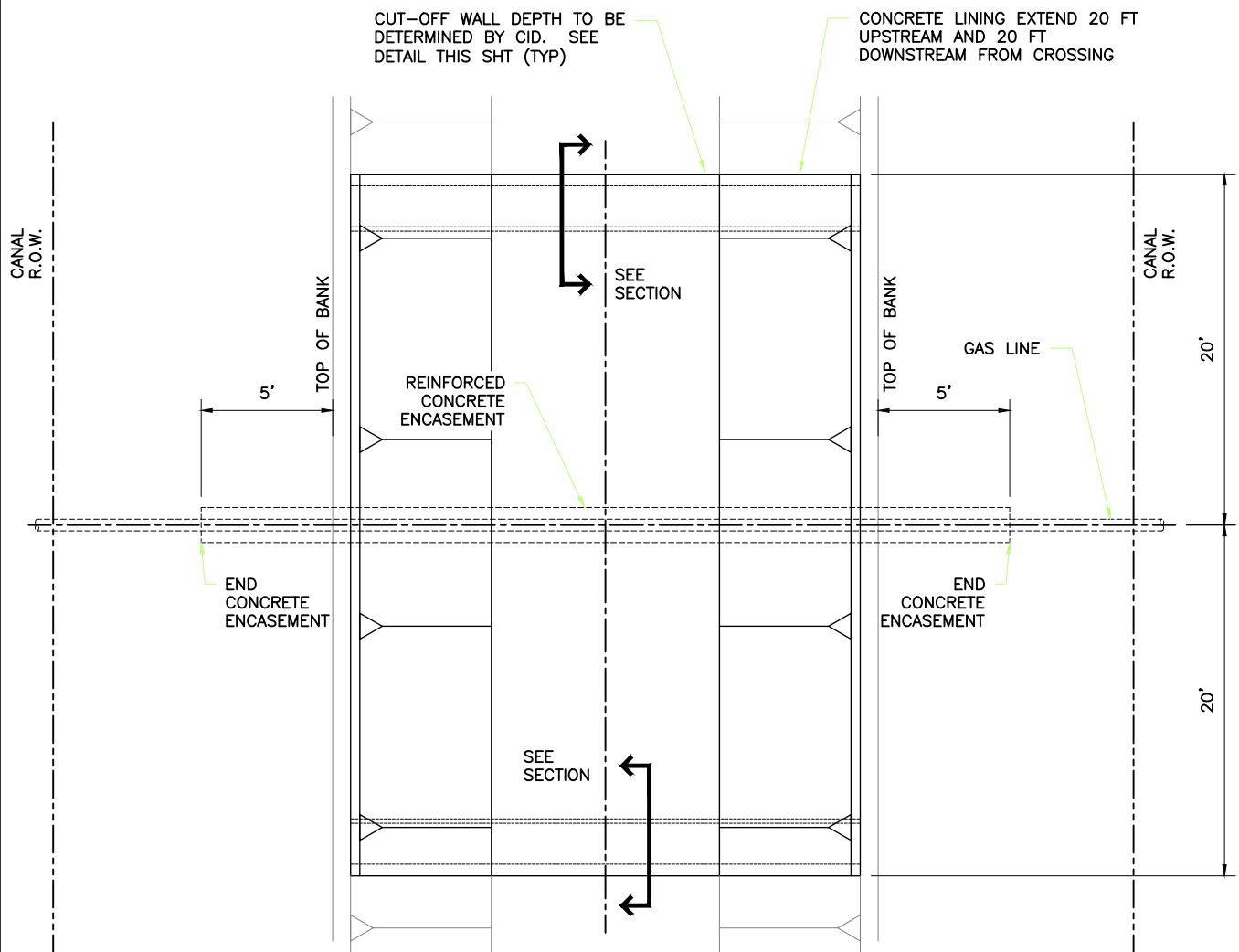
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Richland HP Extension - Phase 1
Leslie Rd. 6" HP & Col. Park Trail 12" HP
Richland, WA
Benton County
Detail Sheet
Sec 25 Town 9N Rng 28E

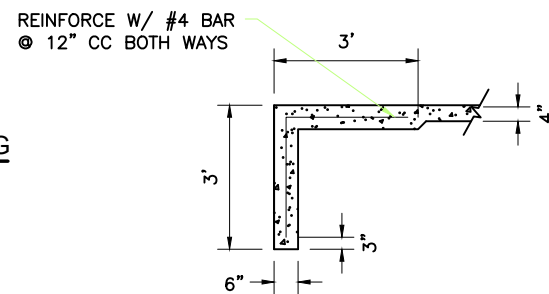
D1

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NO	REVISION	BY	DATE

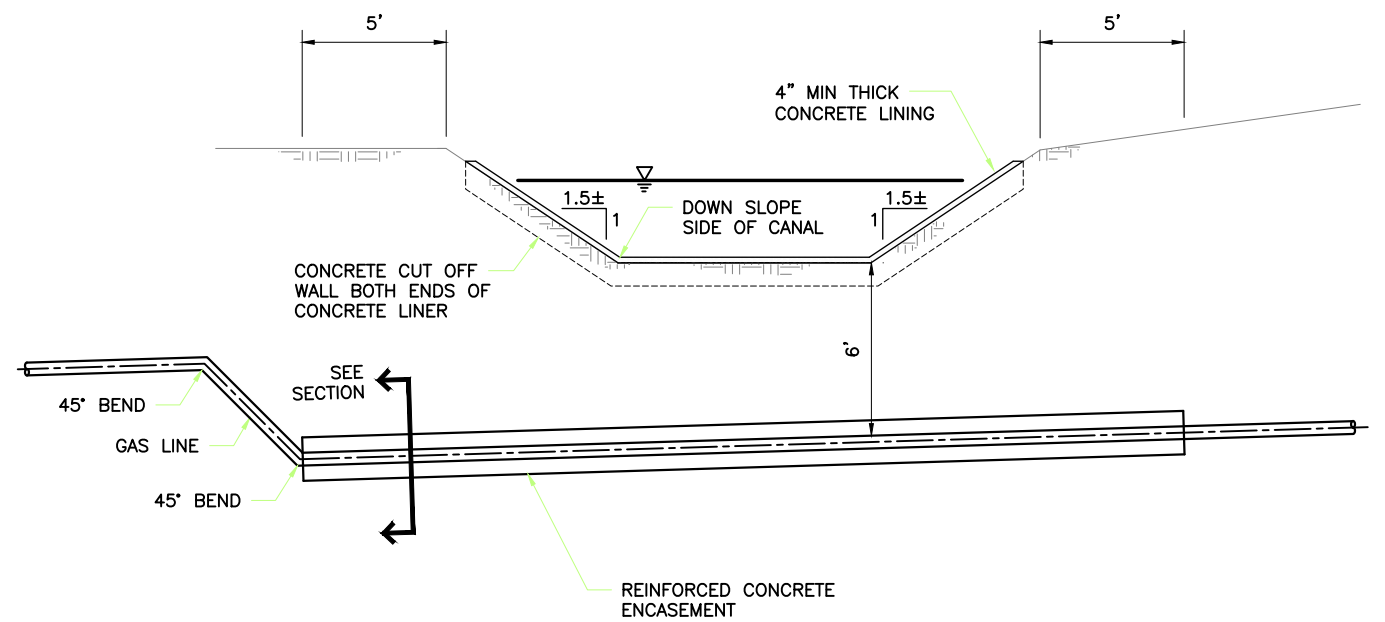


PLAN VIEW - CANAL CROSSING
NTS

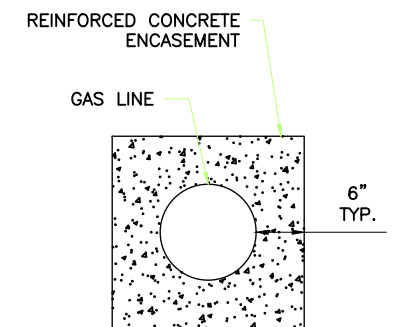


SECTION

NOTE:
CANAL SHALL BE RETURNED TO ITS ORIGINAL DIMENSIONS AND INV ELEV BEFORE CONCRETE IS PLACED. BACKFILL REQ'D SHALL BE APPROVED BY CID, FREE OF ORGANIC AND OTHER UNDESIRABLE MATERIAL AND COMPACTED TO 95% OF MAX DENSITY PER ASTM D 1557. INV ELEV SHALL BE DETERMINED BY SURVEYING GRADE BETWEEN ORIGINAL CONCRETE STRUCTURES APPROVED BY CID.



SECTION VIEW - CANAL CROSSING
NTS



SECTION

NO	REVISION	BY	DATE

Approved For Construction

By: _____ Date: _____

TITLE: _____

Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION

8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON	Scale: NONE
CAD Review: M BITTON	Grid #:
Engineer: T HENDERSON	Date: 11/23/21
Design Review: R SORENSEN	
Parent Work Order #: 279575	
Work Order Number: 279575	
Drawing No: 237441020197	

Richland HP Extension - Phase I
Leslie Rd. 6" HP & Col. Park Trail 12" HP
Richland, WA
Benton County
Detail Sheet

Sec 25 Town 9N Rng 28E

D3

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SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

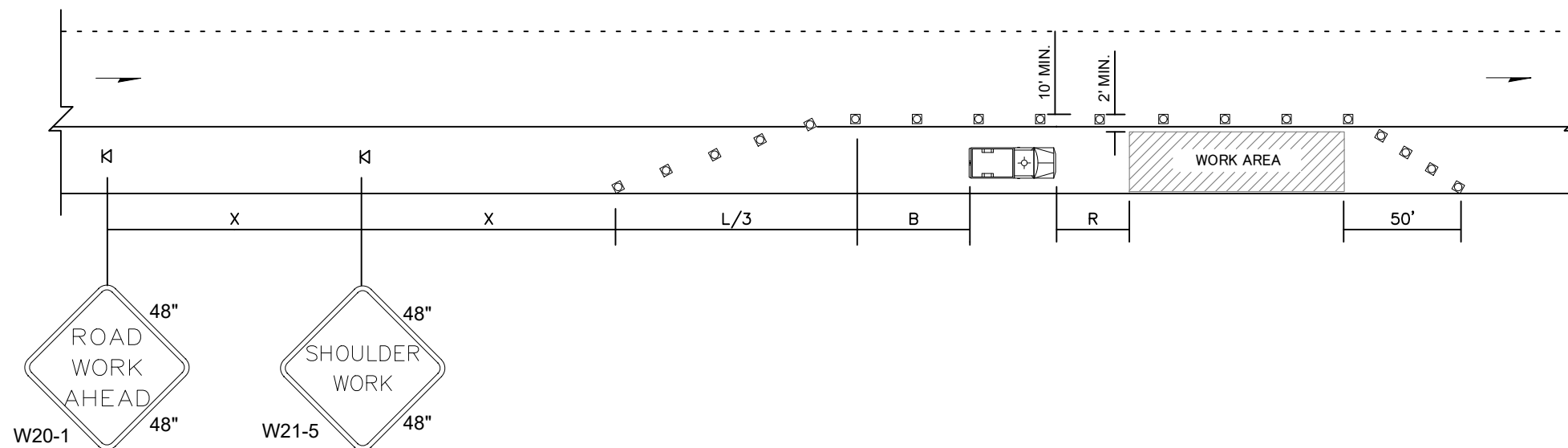
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	-	-	-	-	-	-
10'	40	60	90	90	-	-	-	-	-	-

USE A 3 DEVICES TAPER FOR SHOULDERS LESS THEN 8'

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH			< 45 MPH	45-55 MPH	> 55 MPH			
100'	123'	172'			74'	100'	150'			
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40



SHOULDER CLOSURE – LOW SPEED (40 MPH OR LESS)

NOT TO SCALE

NOTES

1. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
2. ALL SIGNS ARE BLACK ON ORANGE.

LEGEND	
K	TEMPORARY SIGN LOCATION
□	CHANNELIZING DEVICES
	PROTECTIVE VEHICLE

NO	REVISION	BY	DATE

Approved For Construction

By: _____ Date: _____

TITLE: _____

Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION

8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON	Scale: 1"=20'
CAD Review: M BITTON	Grid #: 6-T
Engineer: T HENDERSON	Date: 11/23/21
Design Review: R SORENSEN	
Parent Work Order #: 279575	
Work Order Number: 279575	
Drawing No: 237441020197	

Richland HP Extension – Phase I
Col. Park Trail 12" HP
Richland, WA
Benton County
Traffic Control Plan

Sec 25 Town 9N Rng 28E

TC1

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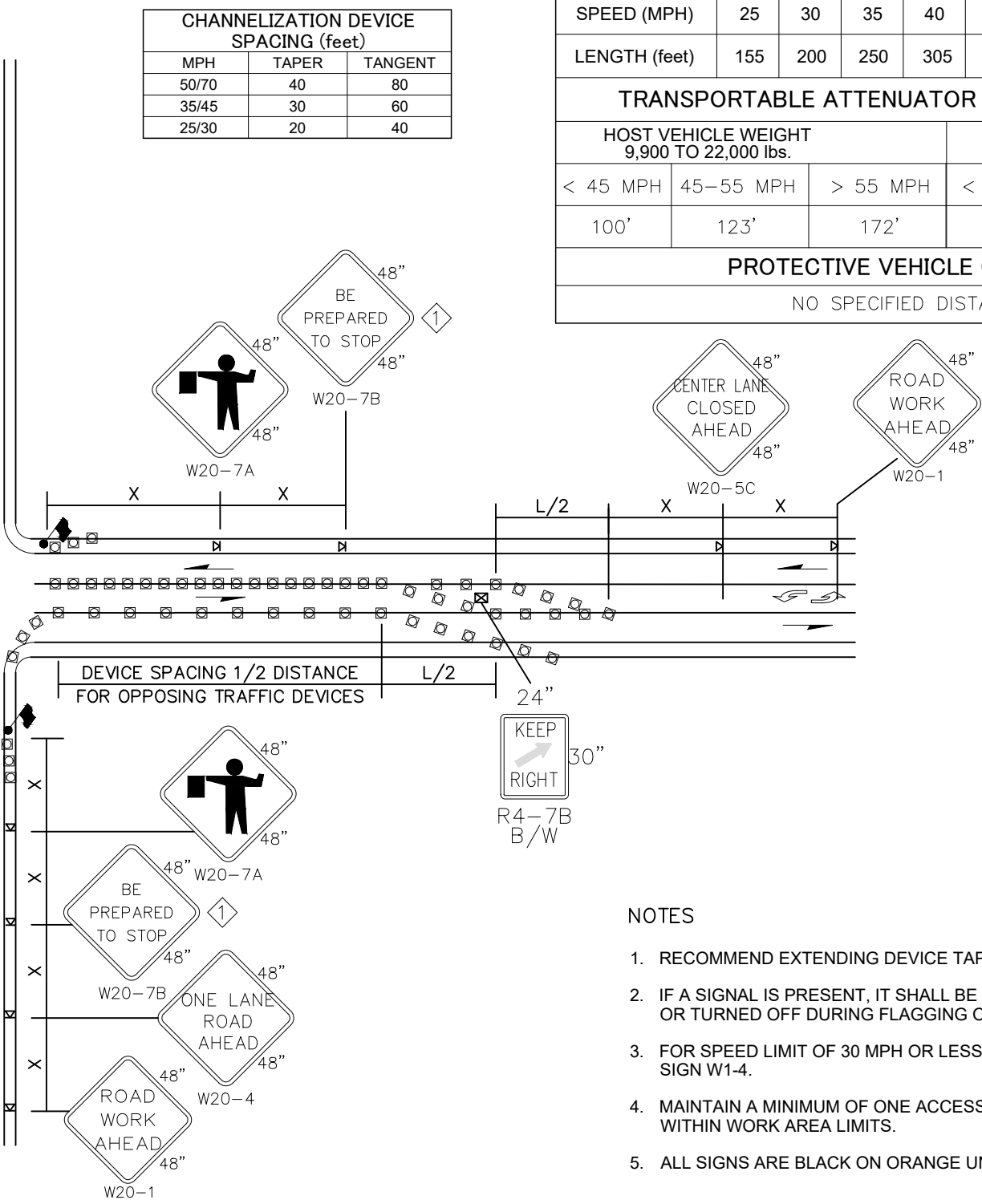
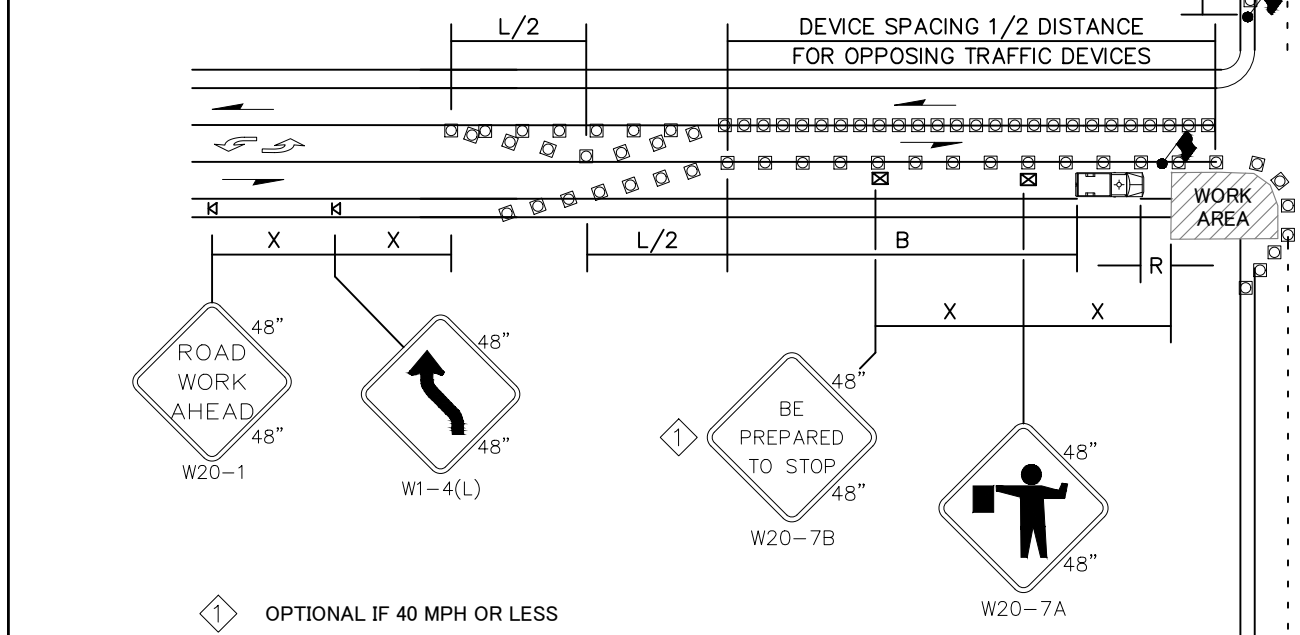
MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.						HOST VEHICLE WEIGHT > 22,000 lbs.				
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH					
100'	123'	172'	74'	100'	150'					
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40



LEGEND

- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE - RECOMMENDED
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

- NOTES**
- RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
 - IF A SIGNAL IS PRESENT, IT SHALL BE SET TO "RED FLASH MODE" OR TURNED OFF DURING FLAGGING OPERATIONS.
 - FOR SPEED LIMIT OF 30 MPH OR LESS USE SIGN W1-3 IN LIEU OF SIGN W1-4.
 - MAINTAIN A MINIMUM OF ONE ACCESS POINT FOR EACH BUSINESS WITHIN WORK AREA LIMITS.
 - ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

INTERSECTION LANE CLOSURE – THREE LANE ROADWAY
NOT TO SCALE

NO	REVISION	BY	DATE

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By: _____ Date: _____

TITLE: _____

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CASCADE NATURAL GAS CORPORATION

8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON	Scale: 1"=20'
CAD Review: M BITTON	Grid #: 6-T
Engineer: T HENDERSON	Date: 11/23/21
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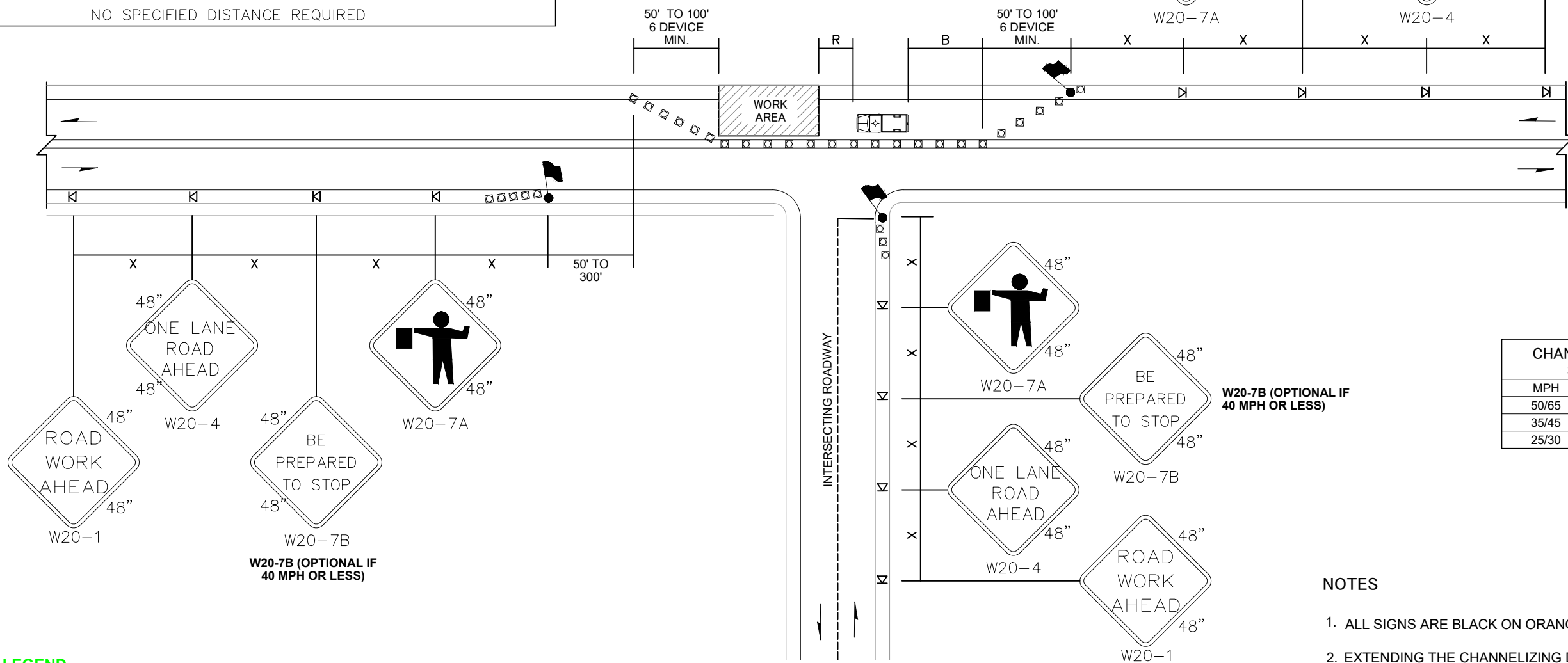
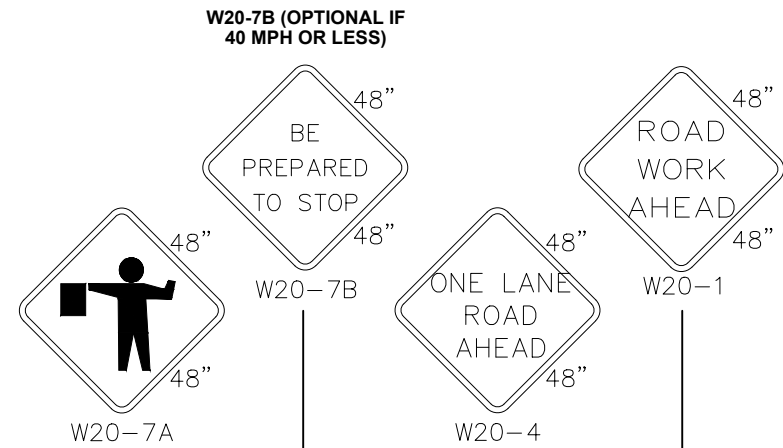
Richland HP Extension – Phase I
Col. Park Trail 12" HP
Richland, WA
Benton County
Traffic Control Plan

Sec 25 Town 9N Rng 28E

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH			< 45 MPH	45-55 MPH	> 55 MPH			
100'	123'	172'			74'	100'	150'			
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.



CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
50/65	10 TO 20	80
35/45	10 TO 20	60
25/30	10 TO 20	40

NOTES

- ALL SIGNS ARE BLACK ON ORANGE.
- EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED.
- NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE **STANDARD SPECIFICATIONS** FOR ADDITIONAL DETAILS.
- SEE **SPECIAL PROVISIONS** FOR WORK HOUR RESTRICTIONS.

ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS
NOT TO SCALE

LEGEND

- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE

NO	REVISION	BY	DATE

Approved For Construction
 By: _____ Date: _____
 TITLE: _____
 Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION
 8113 W Grandridge Blvd Kennewick, WA 99336

CAD Tech: M WILKINSON Scale: 1"=20'
 CAD Review: M BITTON Grid #: 6-T
 Engineer: T HENDERSON Date: 11/23/21
 Design Review: R SORENSEN
 Parent Work Order #: 279575
 Work Order Number: 279575
 Drawing No: 237441020197

Richland HP Extension - Phase I
 Col. Park Trail 12" HP
 Richland, WA
 Benton County
 Traffic Control Plan
 Sec 25 Town 9N Rng 28E

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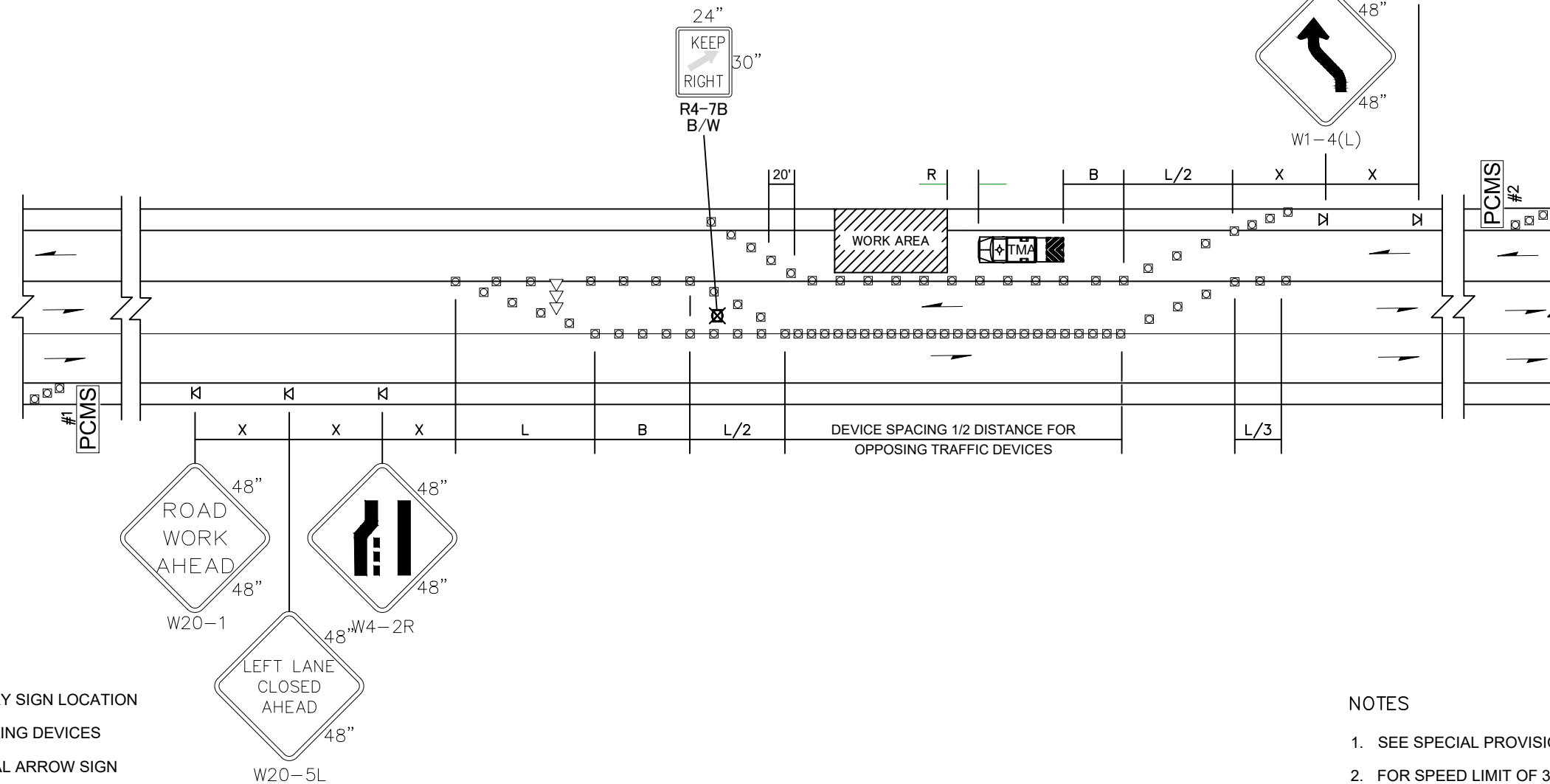
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH			< 45 MPH	45-55 MPH	> 55 MPH			
100'	123'	172'			74'	100'	150'			
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	-

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/60	40	80
35/45	30	60
25/30	20	40



PCMS #1	
1	2
LEFT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

PCMS #2	
1	2
LANE SHIFTS LEFT	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

LEGEND

- K TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- ⇄ SEQUENTIAL ARROW SIGN
- ⊕ TRANSPORTABLE ATTENUATOR
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- ⊗ TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

LANE SHIFT - THREE LANE ROADWAY

NOT TO SCALE

NOTES

- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- FOR SPEED LIMIT OF 30 MPH OR LESS, USE SIGN W1-3 IN LIEU OF SIGN W1-4.
- RECOMMENDED EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

NO	REVISION	BY	DATE

Approved For Construction

By: _____ Date: _____

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Approval Expires: _____ Date: _____

CASCADE NATURAL GAS CORPORATION

8113 W Grandridge Blvd Kennewick, WA 99336

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CAD Review: M BITTON	Grid #: 6-T
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Richland HP Extension - Phase I
Col. Park Trail 12" HP
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Traffic Control Plan

Sec 25 Town 9N Rng 28E

TC4

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