



PLANNING COMMISSION MEETING

Thursday, February 12, 2026 at 6:30 PM
Council Chambers, 60 West Main, Hyrum, Utah

AGENDA

Public notice is hereby given of a Hyrum Planning Commission Meeting to be held in the Council Chambers, 60 West Main, Hyrum, Utah at 6:30 PM, February 12, 2026. The proposed agenda is as follows:

1. **ROLL CALL**
2. **PLEDGE OF ALLEGIANCE**
3. **INVOCATION**
4. **APPROVAL OF MINUTES**
 - A. January 8, 2026
5. **AGENDA APPROVAL**
6. **PUBLIC HEARING**
 - A. To receive public comment regarding an ordinance amending Title 17 Zoning of the Hyrum City Municipal Code, Section 17.44.020 Use Regulations in the Commercial Zone C-1 and Section 17.45.020 Use Regulations in the Commercial Zone C-2 to remove certain permitted and conditional uses.
7. **SCHEDULED DELEGATIONS**
 - A. Hyrum City, Ordinance Amendment - Seeking recommendation to the City Council for an ordinance amending Title 17 Zoning of the Hyrum city Municipal Code, Section 17.44.020 Use Regulations in the Commercial Zone C-1 and Section 17.45.020 Use Regulations in the Commercial Zone C-2 to remove certain permitted and conditional uses.
 - B. Brad James, Ordinance Amendment - Seeking recommendation to the City Council for an ordinance amending Title 17 Zoning of the Hyrum City Municipal code to create Chapter 17.64 Agritourism; amend 17.04.070 definitions to define and include "Agricultural Enterprise", "Agritourism", "Agritourism Activity", and "Agritourism Operator"; Amend Section 17.22.030.C Use Regulations to include "Agritourism" as a Conditional Use in the Open Space Zone OS; and amend Section 17.38.010.C Conditional Uses to include Agritourism as a Conditional Use in the Residential Agricultural Zone RA.
 - C. Jeff Hinds, Enridge Gas District Regulator Station and High-Pressure Gas Feeder Line - Seeking Site Plan Approval for upgrades to the District Regulator Station

located at 388 West 300 North, and high-pressure gas feeder line from the District Regulation Station to 4650 South 1200 West.

8. OTHER BUSINESS

A. Annual Planning Commission Review

- I. Election of Planning Commission Chairman and Vice Chairman.
- II. Review appointment terms of Planning Commission Members.
- III. Set meeting schedule for the year.
- IV. Review past year's work - conducted by Chairman.
- V. Review plans for the coming year.

9. ADJOURNMENT

Shara Toone
Secretary

Commission Members may participate in the meeting via telephonic communication. If a Commission Member does participate via telephonic communication, the Commission Member will be on speakerphone. The speakerphone will be amplified so that the other Commission Members and all other persons present in the Commission Chambers will be able to hear all discussions. In compliance with the Americans with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify Hyrum City Planning Commission at 435-245-6033 at least three working days before the meeting.

CERTIFICATE OF POSTING - The undersigned, duly appointed and acting City Secretary of Hyrum City, Utah, does hereby certify that a copy of the foregoing Notice was posted on the Utah Public Notice Website and Hyrum City's Website, provided to each member of the governing body, and posted at the City Offices, 60 West Main, Hyrum, Utah, this 10th day of February, 2026. Shara Toone, Secretary.

MINUTES OF A REGULAR MEETING OF THE HYRUM CITY PLANNING COMMISSION HELD JANUARY 8, 2026 AT THE HYRUM CITY COUNCIL CHAMBERS, 60 WEST MAIN, HYRUM, UTAH.

CONVENED: 6:30 P.M.

CONDUCTING: Chairman Stephen Nelson

PRESENT: Chairman Stephen Nelson, Vice Chair Angi Bair, Commissioner Paul Willardson, and Alternate Member Marty McBride.

EXCUSED: Commissioners Averie Wheeler and Scott Casas

CALL TO ORDER: There being four present and four representing a quorum, Chairman Stephen Nelson called the meeting to order.

OTHERS PRESENT: City Planner Tony Ekins, City Engineer Matt Holmes and five citizens. Secretary Bethany Sproul recorded the minutes.

PLEDGE OF ALLEGIANCE: Commissioner Marty McBride led the governing body and the citizens in the Pledge of Allegiance.

INVOCATION: Commissioner Paul Willardson

APPROVAL OF MINUTES:

The minutes of a regular meeting held on December 11, 2025 were approved as written.

ACTION Commissioner Willardson made a motion to approve the minutes of December 11, 2025 as written. Commissioner Bair seconded the motion and Commissioners Bair, McBride, Nelson, and Willardson voted aye.

AGENDA APPROVAL:

A copy of the notice and agenda for this meeting was posted on the Utah Public Notice Website and Hyrum City's website, distributed to each member of the Planning Commission, and posted at the City Offices more than forty-eight hours before meeting time.

ACTION Commissioner Bair made a motion to approve the agenda for January 8, 2026, as written. Commissioner McBride seconded the motion and Commissioners Bair, McBride,

Nelson, and Willardson voted aye.

6. PUBLIC HEARINGS

- A. To receive public comment regarding an ordinance amending Title 17 Zoning of the Hyrum City Municipal Code to create Chapter 17.64 Agritourism; amend 17.04.070 Definitions to define and include "Agricultural Enterprise", "Agritourism", "Agritourism Activity", and "Agritourism Operator"; Amend Section 17.22.030.C Use Regulations to include "Agritourism" as a Conditional Use in the Open Space Zone OS; and amend Section 17.38.010.C Conditional Uses to include Agritourism as a Conditional Use in the Residential Agricultural Zone RA.
- B. To receive public comment regarding an ordinance amending Title 17 Zoning of the Hyrum City Municipal Code Sections 17.44.080 and 17.45.150 Gas Service Station Criteria to establish requirements and regulations for gas service stations, fuel dispensing, and fuel storage tanks; and amend 17.04.070 Definitions to define and include "Fuel Dispensing", "Fuel Storage Tank", "Fuel Storage Tank Aboveground" and "Gas Service Station."
- C. To receive public comment regarding an ordinance amending Title 17 Zoning of the Hyrum City Municipal Code, Section 17.44.020 Use Regulations in the Commercial Zone C-1 and Section 17.45.020 Use regulations in the Commercial Zone C-2 to remove certain permitted and conditional uses.

7. SCHEDULED DELEGATIONS

- A. Brad James, Ordinance Amendment - Seeking recommendation to the City Council for an ordinance amending Title 17 Zoning of the Hyrum City Municipal Code to create Chapter 17.64 Agritourism; amend 17.04.070 Definitions to define and include "Agricultural Enterprise", "Agritourism", "Agritourism Activity", and "Agritourism Operator"; Amend Section 17.22.030.C Use Regulations to include "Agritourism" as a Conditional Use in the Open Space Zone OS; and amend Section 17.38.010.C Conditional Uses to include Agritourism as a Conditional Use in the Residential Agricultural Zone RA.
- B. Hyrum City, Ordinance Amendment - Seeking recommendation

to the City Council for an ordinance amending Title 17 Zoning of the Hyrum City Municipal Code Sections 17.44.080 and 17.45.150 Gas Service Station Criteria to establish requirements and regulations for gas service stations, fuel dispensing, and fuel storage tanks; and amend 17.04.070 Definitions to define and include "Fuel Dispensing", "Fuel Storage Tank", "Fuel Storage Tank Aboveground" and "Gas Service Station."

- C. Hyrum City, Ordinance Amendment - Seeking recommendation to the City Council for an ordinance amending Title 17 Zoning of the Hyrum City Municipal Code, Section 17.44.020 Use Regulations in the Commercial Zone C-2 to remove certain permitted and conditional uses.

8. ADJOURNMENT

PUBLIC HEARINGS:

THE PURPOSE OF THIS HEARING IS TO RECEIVE PUBLIC COMMENT REGARDING AN ORDINANCE AMENDING TITLE 17 ZONING OF THE HYRUM CITY MUNICIPAL CODE TO CREATE CHAPTER 17.64 AGRITOURISM; AMEND 17.04.070 DEFINITIONS TO DEFINE AND INCLUDE "AGRICULTURAL ENTERPRISE", "AGRITOURISM", "AGRITOURISM ACTIVITY", AND "AGRITOURISM OPERATOR"; AMEND SECTION 17.22.030.C USE REGULATIONS TO INCLUDE "AGRITOURISM" AS A CONDITIONAL USE IN THE OPEN SPACE ZONE OS; AND AMEND SECTION 17.38.010.C CONDITIONAL USES TO INCLUDE AGRITOURISM AS A CONDITIONAL USE IN THE RESIDENTIAL AGRICULTURAL ZONE RA.

City Planner Tony Ekins said that this code would allow more opportunities for accessory uses on agricultural land. This would allow property owners to have an additional income instead of selling their property to be developed. Agritourism is defined as a combination of agricultural production and tourism to attract participants to the agricultural enterprise for entertainment, recreational, or educational purposes. Agricultural enterprise is defined as a ranch, farm or any other type of agriculture operation. Agritourism activity is defined as an activity at an agricultural enterprise that engages in entertainment, recreation, or educational purposes.

ACTION

Commissioner Willardson made a motion to open the public hearing at 6:37 P.M. Commissioner Bair seconded the motion and Commissioners Bair, McBride, Nelson, and Willardson voted aye.

Chairman Nelson asked if there were any members of the public who would like to speak to come up to the podium and state their name and address for the record.

ACTION Commissioner Bair made a motion to close the public hearing at 6:37 P.M. Commissioner McBride seconded the motion and commissioners Bair, McBride, Nelson, and Willardson voted aye.

THE PURPOSE OF THIS HEARING IS TO RECEIVE PUBLIC COMMENT REGARDING AN ORDINANCE AMENDING TITLE 17 ZONING OF THE HYRUM CITY MUNICIPAL CODE SECTIONS 17.44.080 AND 17.45.150 GAS SERVICE STATION CRITERIA TO ESTABLISH REQUIREMENTS AND REGULATIONS FOR GAS SERVICE STATIONS, FUEL DISPENSING, AND FUEL STORAGE TANKS; AND AMEND 17.04.070 DEFINITIONS TO DEFINE AND INCLUDE "FUEL DISPENSING", "FUEL STORAGE TANK", "FUEL STORAGE TANK ABOVEGROUND" AND "GAS SERVICE STATION."

City Planner Ekins said that this code had been initiated by city staff. A gas station in Hyrum had a spill that required a very extensive clean-up. Staff met with agencies with the State of Utah who advised the city to adopt a gas service station ordinance. This code will provide more regulations so another spill will be less likely to occur in the future.

ACTION Commissioner Bair made a motion to open the public hearing at 6:40 P.M. Commissioner Willardson seconded the motion and Commissioners Bair, McBride, Nelson, and Willardson voted aye.

Chairman Nelson asked if there were any members of the public who would like to speak to come up to the podium and state their name and address for the record.

ACTION Commissioner Willardson made a motion to close the public hearing at 6:41 P.M. Commissioner Bair seconded the motion and commissioners Bair, McBride, Nelson, and Willardson voted aye.

THE PURPOSE OF THIS HEARING IS TO RECEIVE PUBLIC COMMENT REGARDING AN ORDINANCE AMENDING TITLE 17 ZONING OF THE HYRUM CITY MUNICIPAL CODE, SECTION 17.44.020 USE REGULATIONS IN THE COMMERCIAL ZONE C-1 AND SECTION 17.45.020 USE REGULATIONS IN THE COMMERCIAL ZONE C-

2 TO REMOVE CERTAIN PERMITTED AND CONDITIONAL USES.

City Planner Ekins said that this amendment is in preparation for the update of the general plan. City staff went through the permitted and conditional uses for commercial zones C-1 and C-2 and recommended amendments and the removal of some of the types of uses.

ACTION **Commissioner McBride made a motion to open the public hearing at 6:43 P.M. Commissioner Bair seconded the motion and commissioners Bair, McBride Nelson, and Willardson voted aye.**

Chairman Nelson asked if there were any members of the public who would like to speak to come up to the podium and state their name and address for the record.

ACTION **Commissioner Willardson made a motion to close the public hearing at 6:44 P.M. Commissioner McBride seconded the motion and Commissioners Bair, McBride Nelson, and Willardson voted aye.**

SCHEDULED DELEGATIONS:

BRAD JAMES, ORDINANCE AMENDMENT - SEEKING RECOMMENDATION TO THE CITY COUNCIL FOR AN ORDINANCE AMENDING TITLE 17 ZONING OF THE HYRUM CITY MUNICIPAL CODE TO CREATE CHAPTER 17.64 AGRITOURISM; AMEND 17.04.070 DEFINITIONS TO DEFINE AND INCLUDE "AGRICULTURAL ENTERPRISE", "AGRITOURISM", "AGRITOURISM ACTIVITY", AND "AGRITOURISM OPERATOR"; AMEND SECTION 17.22.030.C USE REGULATIONS TO INCLUDE "AGRITOURISM" AS A CONDITIONAL USE IN THE OPEN SPACE ZONE OS; AND AMEND SECTION 17.38.010.C CONDITIONAL USES TO INCLUDE AGRITOURISM AS A CONDITIONAL USE IN THE RESIDENTIAL AGRICULTURAL ZONE RA.

City Planner Ekins said that the purpose of this amendment is to allow for more types of conditional uses in RA zones. This will help agricultural enterprises to remain agricultural land and receive additional income from agritourism activities. The agritourism operator will be required to obtain a conditional use permit and business license. Another requirement is that the agritourism operator must have owned the agricultural enterprise for two years.

Commissioner Bair asked what the purpose of the restriction of owning the property for two years was.

City Planner Ekins said that requirement was guidance from other codes regarding agritourism. In hindsight, if any property that had an active agritourism activity gets sold to a new owner who wanted to continue that activity, they would not qualify. He said that this rule could be taken out. Ekins asked if the commission had any comments regarding the code on gross acreage.

Commissioner Willardson asked why the percentage of use for agritourism could not be over 50% of the acreage.

City Planner Ekins said that agriculture is still a benefit to the owner and community. If the activity takes up the entire plot of land, it will become a constant business that would end up better somewhere else.

Commissioner Bair said that if the property is zoned agriculture, the property owner should still be able to apply for agritourism, regardless of if they had maintained it for the past two years.

Chairman Nelson said that a lot of farm parcels have homes and yards on them, which are not typically associated with agricultural use. There also may be parts of the property that may not be as productive for agriculture use and would be better to be used for agritourism.

City Planner Ekins explained that, based on Chairman Nelson's comments, any land zoned RA should be allowed to be used for agritourism, no matter how productive the land has been in the past.

Commissioner Willardson asked how the city would know if the property has been used productively or not.

City Planner Ekins said that all of Section B could potentially be taken out. He said that the applicant will have to get a conditional use permit and a business license before agritourism activities can start. Ekins said that parts of Section E could be removed as well.

Chairman Nelson said that he does not mind if the history of agricultural use is given with the application, however, evidence is unnecessary.

Commissioner Bair said she was not sure if the history of the land use was relevant.

City Planner Ekins said that other requirements for the application would be a description of the anticipated changes to the agricultural enterprise's general function and a description of how the agritourism activities will remain incidental and accessory to the agricultural enterprise.

Commissioner Willardson asked how a corn maze would remain incidental to the agricultural function.

City Planner Ekins said that a corn maze is incidental to a corn farm. It stays in line with the original use.

Chairman Nelson clarified that incidental uses support the primary use.

City Planner Ekins said that a description of both agricultural related and non-agricultural related types of facilities and equipment that will be used for agritourism activities. A description of anticipated traffic circulation will also be required. The applicant must also provide a parking plan that accommodates their employees and customers.

Commissioner Willardson asked if the parking and traffic details were part of the business license process.

City Planner Ekins answered that it is part of the conditional use review.

Commissioner Willardson asked if it was redundant to have similar requirements in different sections.

Chairman Nelson said he reads it as it is part of the conditional use permit.

Commissioner Bair said that it is ok to be a bit redundant as sometimes some details get missed in different sections.

City Planner Ekins said that another requirement would be a description of hours of operation. This gives staff an idea of anticipated number of visitors and the hours of operation. The noise ordinance needs to be considered when deciding the hours of operations.

Chairman Nelson said that he is concerned regarding conditional

use permits. According to state code, the Planning Commission can put conditions based on standards to mitigate the impact. He was concerned that there are no standards. If a wedding or dance venue opens, they may need a longer timeframe for hours of operation, which may negatively impact the surrounding community. The way it is currently written is very open ended. They should be careful as it could be an issue if it is not implemented well.

Commissioner Bair said that it would be very subjective to different types of businesses. It should be done on a case-by-case basis. She said that the Planning Commission should have the authority to recommend the hours.

City Engineer Holmes said that there are quiet hours. There are standards that designate times the decibel levels need to be under a certain amount.

City Planner Ekins said that since it is part of the list, it will be one of the items that will be discussed when an applicant comes in for a conditional use permit. He said that he had spoken with Keesha Rinderknecht about times of operation and how they are established. She said that different businesses have customers with different needs at different times of the day. The conditional use permit allows conditions to be specific to one site.

City Planner Ekins said that plot plans must include property lines, locations of all structures, setbacks, designated off street parking, and floor plan drawings. Any buildings that are planned to be used or built are required to provide floor plans. If a structure is built, then sections F-3 and F-4 will also be applicable.

Chairman Nelson asked if a site plan is typically done with conditional use permits.

City Planner Ekins answered yes.

City Planner Ekins read out the classification of a small agricultural enterprise. He said that based on earlier conversation; this definition will need to be adjusted.

Commissioner Willardson asked if the Planning Commission was ok with the 25% rule on acreage.

City Planner Ekins said that restriction was put in place to make sure the entire property did not get overtaken by agritourism. The rest should remain purely agricultural.

Commissioner Bair said that it depends on the lot size. If a lot is only 1 acre, half of it being a building is very significant. However, on a 5-acre lot, the 2.5 acres is a lot less impactful.

Chairman Nelson said that with the current recommended setbacks, it will be very difficult to make a 1-acre plot work. There should be regulations to make sure agricultural production is still occurring instead of becoming a commercial business. The highest percentage of property to be used for agritourism should be 50%. He agreed with Commissioner Bair's comment that 1 acre lots with that recommendation would be a bit overwhelming compared to 5 acre lots.

Commissioner Bair said that if the setbacks are sufficient at minimizing impact for small lots, then 50% restriction on 5 acre lots would work.

City Planner Ekins asked if small agricultural enterprises should be 2.5-5 acres.

Commissioner Willardson agreed that 1 acre lots would be too small.

City Planner Ekins said that one use that was discussed was where a customer would come to the property to pick some produce. The staff had decided it was best not to be involved in those operations. The city does not have to regulate them.

Chairman Nelson clarified that this would only regulate agritourism activities, where people are invited to participate either observe or interact with the agriculture. He asked if the applicant had a significant amount of acreage and if this change would impact their proposal.

City Planner Ekins answered that they do have enough property that this would not affect their proposal.

Chairman Nelson said that a light agritourism, like a pick your own produce farm, with a 200 feet setback would make for a very small impact. For a wedding venue, however, the setback would make more sense in controlling the impact.

City Planner Ekins said that the "you-pick" was left out of the use table. He wondered if seasonal activities, like a pumpkin walk should not be part of the use table as well.

Chairman Nelson said that "you-pick" could fall under the seasonal

activity title as well.

City Engineer Holmes asked how, in a "you-pick" situation, agricultural production could be separated from agritourism, since visitors would walk throughout the property to pick the produce.

City Planner Ekins said that was why the "you pick" was left out. He suggested that the percentages could be replaced with setbacks.

Chairman Nelson said there are some accessory uses that will take more than 50% of the property that would not have much of an impact. A wedding venue, however, would have more of an impact. Little Bear Bottoms provides agritourism activities but also has a spook alley. There are a lot of different activities but not all of them would be able to meet the given terms. They could have very strict rules that would prevent the "bad things"; however, it may also prevent the "good things" as well. It would be better to have rules that keep things balanced.

City Planner Ekins went through the Agritourism Activity Use Table. He said that some of these activities' impacts would be mitigated by setbacks, but others may not need setbacks at all.

Chairman Nelson said that entertainment activities would need setbacks the most. Parking areas would also need setbacks.

Commissioner Willardson agreed that entertainment activities should have setbacks, as well as seasonal activities. Farm tour activities should not have setbacks.

City Planner Ekins said that if that was the case, 1-acre properties could potentially be allowed to do agritourism activities.

Commissioner Bair asked if seasonal amusement needed setbacks.

Commissioner Willardson said that he would like the setbacks for noise or other types of disturbances.

Chairman Nelson asked if the restrictions of how much property can be used for agritourism should be based upon use. If there is going to be a farm tour, it does not make sense if the tour is limited to 25% of the farm. However, entertainment uses should have a restriction on how much the property gets used for it.

City Planner Ekins said that the table can be reformatted. He suggested columns for small and large agricultural enterprises

that break down the coverage into a table with the different uses. The column that says "From Agricultural Enterprise Exterior Boundary" could be replaced with activity coverage. The setbacks regarding if there is a dwelling on an adjacent lot would stay.

The Planning Commission agreed with those changes.

City Planner Ekins said that Small Agricultural Enterprise would range from 1-5 acres while a Large Agricultural Enterprise would be greater than 5 acres. He said that coverages and setbacks can be based on the type of use.

Commissioner Bair suggested that Ekins should come back to the Planning Commission with all the changes.

City Planner Ekins asked the commission if they liked the idea of setbacks getting reduced up to one-half of their measurement if either 6-foot opaque fencing or landscaping is put in that screens any potential impacts to the neighboring properties.

Chairman Nelson said he supported the reduction of setbacks if a barrier is provided.

City Planner Ekins read through Section I which states the unapproved uses for Agritourism to be overnight accommodations and mass gatherings.

Commissioner Bair asked for a clearer definition of a mass gathering. She said if the venue gets used for a family reunion, who ends up hiring a band, that could be considered as a concert. The mass gathering should be based on the number of participants, rather than activities. A festival or concert can be scaled down to 20 people.

City Planner Ekins said that according to the health department, a mass gathering would be considered as an event with at least 1,000 people.

Chairman Nelson said that he would like there to be a setback for parking lots from residential property.

City Planner Ekins said that parking requirements were listed in Section K.

Chairman Nelson asked if 15 feet would be sufficient for all events.

City Planner Ekins said that 15 feet was the setback for the commercial district from residential lots, which constantly has traffic.

City Planner Ekins read through section J, which states the standards for setbacks and other ordinances that agritourism is subject to. Something he wanted to highlight in this section was that no residential homes would be allowed for new construction, only accessory buildings. Ekins recommended that J-7, regarding lighting, should be crossed out. It was brought up at a City Council meeting, but the code only applies to the commercial zones.

City Planner Ekins moved onto Section K, which states the parking requirements. The parking lot must be at least 15 feet away from the property line of an adjacent lot with a dwelling. He suggested that the distance should just be 15 feet, regardless of whether there is or is not a dwelling on the adjacent lot.

Commissioner Bair agreed with that change. That way there would not be any issues of accidentally parking on someone else's property.

City Planner Ekins said that the parking stalls should be 9x20 feet and be completely contained on the agritourism site. Any lighting for the parking lot should be reflected in a way so it does not impact nearby dwellings.

Commissioner Bair asked why Section J-3 was not included in the parking section.

City Planner Ekins said that J-3 can be moved into the parking section.

City Engineer Holmes recommended the addition of a 20-foot minimum drive aisle for emergency vehicles.

Chairman Nelson said that 24 feet is more typical.

City Engineer Holmes said it could be 24 feet. Twenty feet is the minimum for a fire lane. It does not fit an engine but is sufficient for an ambulance.

Chairman Nelson said that he was ok with the 20-foot minimum. He asked if the city has general parking standards.

City Engineer Holmes said that there are standards, but he was not positive on what they were.

City Planner Ekins said that all required parking must provide adequate ingress and egress for standard-sized vehicles. If there is a building that is used for agritourism, then an all-weather driveway surface from the public right-of-way to the structure must be provided for emergency services access. He said that the aisle width would be discussed at a staff review for any applications. A minimum can be included, but the fire department will change it during their review to fit their needs. Ekins said that not all agritourism activities will be all year round. The fire department said they would accept agricultural land. The parking lot is not required to be asphalt and striped.

Chairman Nelson asked why Ekins was planning to remove the lighting standards stated in Section J-7.

City Planner Ekins said that the code text had come from the short-term rentals code. In a City Council meeting, a comment was made that this type of lighting requirement would apply to commercial districts, whereas short-term rentals are in single family residential zones. It brought into question if the city should be regulating lighting coming from residential homes.

Chairman Nelson said he would prefer for the light requirement to remain in the code for agritourism. Depending on the event, lots of lights could be involved. Agritourism has the potential to have more impact than lights from a house.

City Engineer Holmes said that lights may have an impact on animals in the agricultural zone. There should be some sort of light regulations to mitigate impact on the neighbors' animals and other profits.

Commissioner Bair suggested that the light requirement could just be applied if there was a neighboring property with a house on it.

Commissioner Willardson asked if the lighting requirement could be part of the review of the conditional use permit.

Chairman Nelson said that it could be, however, he thought that if the regulation was a part of the code, their review would be stronger. It also would help from appearing to be arbitrary towards different applications.

Chairman Nelson invited Brad James to the stand.

Brad James asked the reasoning for the parking lot to be 15 feet

from any property line. He said that the area where they are planning to put the parking lot is completely fenced. The property next to him is open space.

Commissioner Bair said that they could go back to the original rule of a 15-foot setback for parking if there is a dwelling on the neighboring property.

Chairman Nelson said there are other impacts from cars, specifically at night with headlights, or general noise. He asked the commission if they had other thoughts.

Commissioner Willardson said he was not too concerned with the parking for agritourism.

Commissioner Bair said that a fence gives a clear, defined boundary.

City Engineer Holmes said that another factor to put into consideration is with how close a dwelling is to the property line. In an agricultural area, a home may be farther out than the typical 8 feet for a residential area.

Chairman Nelson said that he would still like some parking regulations. His suggestion was that the standard setback is 15 feet, however if there is fencing put in place and the adjacent properties' is 30-50 feet away, the setback can be reduced to 5 feet.

City Planner Ekins said that most agricultural fences are made of barbed wire and wooden posts, which may not do much against anticipated impacts.

Chairman Nelson said that if the fence is only barbed wire, then the setback would remain 15 feet. To get the reduced setback they would have to provide some sort of shielding.

Commissioner Bair asked whether that requirement was necessary if the neighboring property was just an empty field, or if there was a dwelling located far from the property line.

The commission discussed whether the parking regulations should remain as written or if there should be conditions that, if met, would reduce the setback. The conditions they were considering were a fence on the boundary line, and the distance of the dwelling from the boundary line, if there even is one.

Nikki Yeager said that they currently have a barbed wire fence between the properties. The closest dwelling is about 1 acre away from the property line and is on a hill. She said that any light or water run off pollution will not affect the house as it would go into a hill. Regardless of how far back the parking lot is from the property line, it will not affect the neighbor's house. She asked that the code is written in a way that will allow for the property's conditions to be considered.

Commissioner Willardson said he sees how these types of rules are important in commercial district, but does not think they are as needed in agritourism. Willardson suggested that the 15-foot setback should be struck out of the code.

Commissioner Bair agreed. Rules can be imposed on a case-by-case basis, as each property is different. Since the parking plan is still required, it will be reviewed under each application.

Commissioner Willardson asked Brad James what they are planning to do.

Brad James said that the property he has is just a bit too small to get much profit from cows or farming, but he still wants to continue to farm. He wants others to benefit from it as well. They are planning for a wedding and family reunion venue. He would eventually like to add in an educational component; however, his property is not ready for that.

ACTION

Commissioner Bair made a motion to table an ordinance amending Title 17 Zoning of the Hyrum City Municipal Code to create Chapter 17.64 Agritourism; amend 17.04.070 Definitions to define and include "Agricultural Enterprise", "Agritourism", "Agritourism Activity", and "Agritourism Operator"; Amend Section 17.22.030.C Use Regulations to include "Agritourism" as a Conditional Use in the Open Space Zone OS; and amend Section 17.38.010.C Conditional Uses to include Agritourism as a Conditional Use in the Residential Agricultural Zone RA for revisions to be made as discussed. Commissioner McBride seconded and commissioners Bair, McBride, Nelson, and Willardson voted aye.

HYRUM CITY, ORDINANCE AMENDMENT - SEEKING RECOMMENDATION TO THE CITY COUNCIL FOR AN ORDINANCE AMENDING TITLE 17 ZONING OF THE HYRUM CITY MUNICIPAL CODE SECTIONS 17.44.080 AND 17.45.150 GAS SERVICE

STATION CRITERIA TO ESTABLISH REQUIREMENTS AND REGULATIONS FOR GAS SERVICE STATIONS, FUEL DISPENSING, AND FUEL STORAGE TANKS; AND AMEND 17.04.070 DEFINITIONS TO DEFINE AND INCLUDE "FUEL DISPENSING", "FUEL STORAGE TANK", "FUEL STORAGE TANK ABOVEGROUND" AND "GAS SERVICE STATION."

City Planner Ekins said that this type of code was recommended to the city by some environmental agencies. This draft has been submitted to many agencies for feedback. When it was sent to the State Fire Marshall, it was given back with great support. The key component that is not common with other city codes is the requirement of a tertiary extra containment for vertical tanks. This provides added protection in case of a spill. However, the tertiary extra containment will not be required if there is a body of water over 350 feet away. Regardless of where the body of water is, the dual wall is still required.

Ekins said that the ordinance's purpose is to educate and protect businesses. Existing gas stations will not be required to move their storage but to take extra precautions when there is an open water body nearby.

Commissioner Willardson asked if there is any language in the code that allows existing gas stations time to be compliant.

City Planner Ekins said that there is currently an abatement program ongoing concerning one station. The other gas station in town already has tertiary extra containment.

Chairman Nelson said that typically when a new ordinance gets passed, anything that does not comply, but was legal before the ordinance was passed, is considered as legal non-conforming. If the city wants the property owner to conform, they must provide a reasonable timeframe for the owner to reach compliance. There are some exceptions in cases of health and safety.

City Planner Ekins clarified in Section K that existing gas stations will not be forced to meet compliance with the new code unless they put in an application for expansion or change, of which they will need to meet the external-tertiary containment requirements.

Chairman Nelson recommended that they work with the state if the city does want the existing gas stations to meet the new standards.

Commissioner Willardson said that he supports this ordinance.

Commissioner Bair pointed out a couple of typos and formatting errors in Sections H-6, E, and F that should be addressed.

ACTION

Commissioner Willardson made a motion to recommend approval for an ordinance amending Title 17 Zoning of the Hyrum City Municipal Code Sections 17.44.080 and 17.45.150 Gas Service Station Criteria to establish requirements and regulations for gas service stations, fuel dispensing, and fuel storage tanks; and amend 17.04.070 Definitions to define and include "Fuel Dispensing", "Fuel Storage Tank", "Fuel Storage Tank Aboveground" and "Gas Service Station" with the formatting changes that were discussed in the meeting. Commissioner Bair seconded and commissioners Bair, McBride, Nelson, and Willardson voted aye.

HYRUM CITY, ORDINANCE AMENDMENT - SEEKING RECOMMENDATION TO THE CITY COUNCIL FOR AN ORDINANCE AMENDING TITLE 17 ZONING OF THE HYRUM CITY MUNICIPAL CODE, SECTION 17.44.020 USE REGULATIONS IN THE COMMERCIAL ZONE C-1 AND SECTION 17.45.020 USE REGULATIONS IN THE COMMERCIAL ZONE C-2 TO REMOVE CERTAIN PERMITTED AND CONDITIONAL USES.

City Planner Ekins said the first set of recommended changes is regarding zone C-1 which is on the east side of Hyrum. Staff recommended removing these permitted uses: single family dwellings, dwelling two-family accessory apartments, boarding or rooming house, and planned unit developments. Gasoline service station was added as a permitted use. Auto repair, autobody shop, appliance repair, and equipment repair would remain a permitted use, just as their own categories with extra regulations.

Chairman Nelson said that this change would prevent any new single-family homes to be built in C-1 zones. It will keep the zones available for commercial use.

City Engineer Holmes said that if these areas are not preserved for commercial purposes, then the city will have to do a lot more work in terms of utilities and roads to provide new commercial areas.

Commissioner Bair asked if there should be a description added to residential facilities for persons with a disability or the elderly. It should be clearer, so it does not get interpreted as a house that gets built for a specific person who fits in one of those categories.

Chairman Nelson said that there is a state definition for residential facility.

City Planner Ekins said that he can look more into it to make adjustments. He moved onto Section B for Permitted Accessory Uses which removed use number five, regarding combustible and flammable liquids. He said that this use would be covered under the new Gas Service Station code. Truck storage and light manufacturing were also removed as uses in the C-1 zone.

City Planner Ekins said that in the C-2 zone, that gasoline service stations was added. Auto, appliance, and equipment repair were removed from service industries and added as their own categories with the same regulations presented in the C-1 changes. Planned Unit Development was replaced by Mixed-Use Commercial and Residential Site. In Permitted Accessory Uses, combustible and flammable liquids was removed as it is covered by gas service stations. In Conditional Uses, taverns, night clubs, and light manufacturing were removed.

Chairman Nelson said he was able to find the city's definition of residential facilities for the elderly and persons with disabilities. There are already regulations for those facilities. He asked if there are standards for Mixed-Use Commercial and Residential Site.

City Planner Ekins stated that the standards are in another section of the C-2 code.

City Engineer Holmes asked about the removal of combustible/flammable liquids of over 500 gallons. The change may make Ridley's, who has propane, legal non-conforming.

City Planner Ekins said that anyone who has over 500 gallons has to get an operational permit from the fire department and put in an application from the state. He suggested that the standard is kept for that sake. He had interpreted that section more as a gas station. It will be best if the sections stay in both C-1 and C-2 zones.

ACTION

Commissioner Bair made a motion to recommend approval for an ordinance amending Title 17 Zoning of the Hyrum City Municipal Code, Section 17.44.020 Use Regulations in the Commercial Zone C-2 to remove certain permitted and conditional uses with the changes that section B-5 are kept in both C-1 and C-2 Zones. Willardson seconded

and commissioners Bair, McBride, Nelson, and Willardson voted aye.

ADJOURNMENT:

ACTION There being no further business before the Planning Commission, the meeting adjourned at 8:30 p.m.

Stephen Nelson
Chairman

ATTEST:

Bethany Sproul
Secretary

Approved: _____
 As Written



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 Hyrum, Utah 84319
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Staff Evaluation

First Review

Application: Hyrum City, Ordinance Amendment – An ordinance amending Title 17 Zoning of the Hyrum City Municipal Code, Section 17.44.020 Use Regulations in the Commercial Zone C-1 and Section 17.45.020 Use Regulations in the Commercial Zone C-2 to remove certain permitted and conditional uses.

Application Number: 26-001
Preparation Date: January 22, 2026
Applicant Name: Hyrum City

Planning Commission: February 12, 2026
Commission Role: Recommending Body to City Council
Application Type: Amendment

Application Overview: The proposed application is initiated by Hyrum City to consider removing single-family dwellings, single-family dwellings with two family accessory apartments, boarding and rooming houses, planned unit developments, and light manufacturing out of the Commercial Zone C-1 district; and remove planned unit developments, taverns, night club, and light manufacturing out of the Commercial Zone C-2 district. Staff recommends that commercial zoning districts throughout the City limits permit uses that are more aligned with commercial while the residential zoning districts contain single-family and planned unit residential developments, as well as light manufacturing districts accommodate light manufacturing uses. In addition, staff also recommends that certain repair services in the commercial district be conducted within an enclosed building and outdoor storage be screened behind an opaque barrier in efforts to minimize impacts within the commercial zoning districts.

Staff Comments:

1. Staff supports the draft amendment as proposed.

Planning Commission Responsibility:

1. A public hearing must be held by the Planning Commission.

Staff Recommendation:

1. The Planning Commission should have a thorough discussion of the application, staff evaluation, and specifying conditions and requirements.

Stipulations:

1. All proposed amendments shall first be recommended by the Planning Commission for its recommendation to the City Council for its consideration.
2. Staff will submit the proposed amendments to the City Attorney for review and comment prior to submission to the City Council.

Findings of Fact:

1. The public hearing was noticed in accordance with Utah Code.
2. Public hearing mailing notices were mailed to all vacant property parcels within the Commercial Zone C-1 and C-2 Districts.

Attachments:

1. Draft Amendments for Use Regulations in Commercial Zone C-1 and C-2 Districts.
2. Notice of Public Hearing.
3. Current Hyrum City Zoning Map.

Draft Amendment Commercial Zone C-1

17.44.020 Use Regulations

In this zone, no land use shall be permitted except those designated below. No uses will be permitted that will result in a public nuisance because of odor, noise or visual offense, such as junkyards, animal shelters, garbage disposal, heavy manufacturing, stables and the killing and dressing of poultry and animals.

A. Permitted Uses:

- ~~1. Single family dwellings with driveways, garages, off-street parking, fences and landscaping, utility lines, gardens, family food production (per HCC 17.85.010) and recreation animals.~~
- ~~2. Dwelling two family accessory apartment~~
- ~~3. Boarding or rooming house~~
- 4.1. Hotel or motel
- 5.2. Community centers
- 6.3. Churches and accessory buildings including rectories
- 7.4. Nursing homes
- 8.5. Schools (public and private)
- 9.6. Parks and playgrounds
- 10.7. Public structures (i.e. courts, City hall, fire stations, public works, electrical, gas, and telephone transmission stations, etc.).
- 11.8. Communication facilities (radio or TV transmission, telephone transmission, etc.)
- 12.9. Office buildings
- 13.10. Retail sales (groceries, bakeries, building supplies, auto & trailer sales, hardware, clothing, etc).
11. Service industries, (laundry, gasoline service station, carwash, barbers, auto repairs, auto body shop, restaurants, clinics & doctors offices, tailors, appliance repair, equipment repair, etc.).
12. Auto repairs or autobody shop. Incidental service and repair shall be conducted within an enclosed building. Incidental outdoor storage shall be enclosed by a six-foot tall opaque fence.
- 14.13. Appliance repair or equipment repair. Incidental service and repair shall be conducted within an enclosed building. Incidental outdoor storage shall be enclosed by a six-foot tall opaque fence.
- 15.14. Residential facilities for persons with a disability.
- 16.15. Residential facilities for the elderly.
- ~~17. Planned unit development.~~

B. Permitted Accessory Uses:

1. Accessory buildings.
2. Professional child care.
3. Swimming pools.
4. Home Occupations.
5. Combustible and flammable liquids over 500 gallons above or below ground.
 - a. Combustive and flammable liquids stored in containers in excess of 500 gallons are permitted in this zone provided the following conditions are met:
 - (1) Must meet all of the requirements of the uniform building and fire codes.
 - (2) Must be emplaced in such a location as to allow loading and unloading operations to be away from public sidewalks and roadways.
6. Truck storage.

C. Conditional Uses:

1. Taverns.
2. Dancehall or night club.
- ~~3. Light manufacturing.~~

Draft Amendment Commercial Zone C-2

17.45.020 Use Regulations

In this zone, no land use shall be permitted except those designated below. No uses will be permitted that will result in a public nuisance because of odor, noise or visual offense, such as junkyards, animal shelters, garbage disposal, heavy manufacturing, stables and the killing and dressing of poultry and animals. In the commercial zone C-2, the following land uses shall be permitted:

A. Permitted Uses:

1. Single family dwellings with driveways, garages, off-street parking, fences and landscaping, utility lines, gardens, family food production (Per HCC 17.85) and recreation animals.
2. Dwelling two family accessory apartment
3. Boarding or rooming house
4. Hotel or motel
5. Community centers
6. Churches and accessory buildings including rectories
7. Nursing homes
8. Schools (public and private)
9. Parks and playgrounds
10. Public structures (i.e. courts, City hall, fire stations, public works, electrical, gas, and telephone transmission stations, etc.).
11. Communication facilities (radio or TV transmission, telephone transmission, etc.)
12. Office buildings
13. Retail sales (groceries, bakeries, lumberyards, auto & trailer sales, hardware, clothing, etc).
14. Service industries, (laundry, ~~gasoline service station~~, carwash, barbers, ~~auto repairs~~, restaurants, clinics & doctors offices, tailors, ~~appliance repair, equipment repair~~, etc.).
15. ~~Auto repairs. Incidental service and repair shall be conducted within an enclosed building. Incidental outdoor storage shall be enclosed by a six-foot tall opaque fence.~~
- 14.16. ~~Appliance repair or equipment repair. Incidental service and repair shall be conducted within an enclosed building. Incidental outdoor storage shall be conducted within an enclosed building.~~
- ~~15.17. Residential facilities for persons with a disability.~~
- ~~16.18. Residential facilities for the elderly.~~
- 17.19. ~~Planned unit development~~ Mixed-Use Commercial And Residential Sites.

B. Permitted accessory uses:

1. Accessory buildings.
2. Professional child care.
3. Swimming pools.
4. Home Occupations.
5. Combustible and flammable liquids over 500 gallons above or below ground.
 - a. Combustive and flammable liquids stored in containers in excess of 500 gallons are permitted in this zone provided the following conditions are met:
 - (1) Must meet all of the requirements of the uniform building and fire codes.
 - (2) Must be emplaced in such a location as to allow loading and unloading operations to be away from public sidewalks and roadways.

C. Conditional Uses:

- ~~1. Taverns.~~
- 2.1. ~~Dancehall or night club.~~
- ~~3. Light manufacturing.~~



Mayor, Steve J. Miller
Council M
Steve
Rebec **Section 6. Item A.**
NaLyn Nelson
Michael Nelson
Craig Rasmussen
Recorder
Stephanie B. Fricke
Treasurer
Todd Perkins

NOTICE OF PUBLIC HEARING

Notice is hereby given that the Hyrum City Planning Commission of Hyrum City, Utah will hold a public hearing Thursday, February 12, 2026 at 6:30 p.m. in the Hyrum City Council Chambers, 60 West Main, Hyrum. The purpose of this hearing is to receive public comment regarding an ordinance amending Title 17 Zoning of the Hyrum City Municipal Code, Section 17.44.020 Use Regulations in the Commercial Zone C-1 and Section 17.45.020 Use Regulations in the Commercial Zone C-2 to remove certain permitted and conditional uses.

Copies of the proposed amendments are available at the Hyrum City Office, 60 West Main, Hyrum, weekdays between the hours of 8:00 a.m. and 4:30 p.m., and on the City's website at www.hyrumcity.gov.

Shara Toone

Deputy Recorder

Published: State Public Notice Website and Hyrum City Website on January 13, 2026.

Posted: Ridleys Grocery Store, Hyrum City Office, Senior Center, and Library, Hyrum Medical Clinic, Cache Valley Bank, Manning Short Stop on January 14, 2026.



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Staff Evaluation

Second Review

Application: Brad James, Ordinance Amendment – An ordinance amending Title 17 Zoning of the Hyrum City Municipal Code to create Chapter 17.64 Agritourism; amend 17.04.070 Definitions to define and include “Agricultural Enterprise”, “Agritourism”, “Agritourism Activity”, and “Agritourism Operator”; Amend Section 17.22.030.C Use Regulations to include “Agritourism” as a Conditional Use in the Open Space Zone OS; and amend Section 17.38.010.C Conditional Uses to include Agritourism as a Conditional Use in the Residential Agricultural Zone RA.

Application Number: 25-044
Preparation Date: February 10, 2026
Applicant Name: Brad James

Planning Commission: February 12, 2026 - Continuation
Commission Role: Recommending Body to City Council
Application Type: Amendment

Application Overview: Hyrum City was approached by a citizen who desires to conduct agritourism on their property parcel in the Residential Agricultural Zone. Agritourism is currently a use or activity permitted in Cache County on property parcels that provide on-site recreation, retail purchase, education, or participation of the general public provided the activities be located on a legal parcel that is primarily used for agricultural production.

Staff Comments:

1. Staff supports the amendment as proposed.

Planning Commission Responsibility:

1. A public hearing must be held by the Planning Commission.

Staff Recommendation:

1. The Planning Commission should have a thorough discussion of the application, staff evaluation, and specifying conditions and requirements.

Stipulations:

1. All proposed amendments shall first be recommended by the Planning Commission to the City Council for City Council consideration.

Findings of Fact:

1. The public hearing was noticed in accordance with Utah Code.

Attachments:

- A. “Exhibit A” – Draft Amendment

Draft Amendment

17.04.070 Definitions

Agricultural Enterprise – “Agricultural Enterprise” means a farm, ranch, or other agricultural operation.

Agritourism – “Agritourism” means the combination of agricultural production with tourism to attract participants from the general public to an agricultural enterprise for the entertainment, recreation, or education of participants.

Agritourism Activity – “Agritourism Activity” means an activity at an agricultural enterprise that a participant engages in or observes for entertainment, recreation, or education.

Agritourism Operator – “Agritourism Operator” means a person who provides an agritourism activity at an agricultural enterprise.

Artisan Goods Production – “Artisan Goods Production” means products that are produced on the agricultural enterprise in a skilled and traditional way that is made either completely by hand or with the help of hand-tools or even mechanical means, as long the direct manual contribution of the artisan remains the most substantial component of the finished product. (i.e., food, drinks, crafts, soap, or similar consumer products produced on the premises).

Entertainment Uses – “Entertainment Uses” means activities and structures that attract people to events or shows seasonally or periodically that are of a spectator nature. Entertainment uses can be indoors or outdoors.

Recreational Uses – “Recreational Uses” means activities and structures that are participatory in nature where guests are involved or may be observers. Recreational uses can be indoors or outdoors and correspond to the agricultural enterprise farming season.

17.22.030 Use Regulations

C. Conditional Uses:

7. Agritourism

17.38.010 Use Regulations

C. Conditional Uses:

6. Agritourism

17.64 Agritourism.

A. Purpose and Intent.

1. The purpose of this chapter is to support the agricultural heritage and rural open space in Hyrum City by providing agricultural enterprises who are committed to maintaining agricultural property the ability to generate additional income from agritourism activities.
2. The intent of this chapter to create uses that are accessory and incidentally related to an onsite agricultural enterprise that allow visitors coming to the site for entertainment, recreational, educational, or similar agriculture-oriented attractions.
3. The city has authority and obligation to regulate safety whenever agritourism attracts groups of people, vehicles, or whenever events concentrate people requiring sanitary facilities, access to public roads, existing safety, emergency access, avoidance of hazards, and fire safety.

B. Conditional Use Permit and Business License Required.

1. No agritourism activity use shall be conducted without first obtaining a conditional use permit and business license.

C. Supplemental Conditional Use Permit Application Narrative.

1. In addition to the conditional use permit application requirements listed in this Title, all agritourism applications shall be accompanied by a detailed narrative describing the agricultural enterprise and the overall vision for the proposed agritourism activities and shall also include the following:

- a. Description of the anticipated changes to the agricultural enterprise, its general function and maintenance.
- b. Description of the agritourism activities and how the agritourism is incidental and accessory to the agricultural enterprise, and a plan for how the agritourism operator will ensure the agritourism activities remains incidental and accessory in perpetuity.
- c. Description of the intended customer or clientele base that is expected to participate in the agritourism activities.
- d. Description of agriculturally related and non-agriculturally related types of facilities and equipment to be used for agritourism activities.
- e. Description of anticipated traffic, vehicle circulations, and parking plan that accommodates the parking needs for both employees and customer or clientele base.
- f. Description of hours of operation and anticipated number of visitors.

D. Plot Plan and Floor Plan Required.

1. A plot plan, as part of the conditional use permit, that includes property lines, location of all building structures including setbacks from property lines, entrances, and designated off-street parking.
2. A floor plan drawn to scale with labels on rooms indicating the proposed uses and include the square feet clear floor space area of each room.
3. Site plan approval shall be required as regulated by this Title.
4. Zoning clearance shall be required as regulated by this Title.

E. Agricultural Enterprise Qualifications and Classification.

1. The following establishes the qualifications and classification for agricultural enterprises based on acreage:
 - a. Small Agricultural Enterprise. Includes a legal parcel that is a lot size of one (1) to five (5) acres.
 - b. Large Agricultural Enterprise. Includes a legal parcel that is a lot size greater than five (5) acres in size; or contiguous legal parcels that accumulate more than five (5) acres in size.

F. Agritourism Activity Use Table.

1. The following agritourism activities are determined desirable in conjunction with a primary agricultural enterprise. The uses may be subject to other requirements in this Title. "C" denotes allowed conditional use agritourism activities in agricultural enterprise classifications. "NA" denotes agritourism activities in agricultural enterprise classifications that are not allowed.

<u>AGRITOURISM ACTIVITY USE TABLE 17.64.F.1</u>			
<u>Agritourism Activity Uses</u>	<u>Small Agricultural Enterprise</u>	<u>Large Agricultural Enterprise</u>	<u>Activity Setback From Any Dwelling On An Adjacent Not Included In Agritourism</u>
<u>Artisan Goods Production</u>	<u>C</u>	<u>C</u>	<u>*100 Feet</u>
<u>Corn Maze</u>	<u>NA</u>	<u>C</u>	<u>150 Feet</u>
<u>Entertainment or Recreational Uses (barn dance, playhouse theater, haystack slide, climbing area etc.)</u>	<u>C</u>	<u>C</u>	<u>150 Feet</u>

<u>Family Events, Family Reunions</u>	<u>NA</u>	<u>C</u>	<u>150 Feet</u>
<u>Farm Tour (agricultural demonstrations, crop exploration, animal encounters)</u>	<u>C</u>	<u>C</u>	<u>*100 Feet</u>
<u>Market for Multi Farmers / Off-site Products</u>	<u>C</u>	<u>C</u>	<u>*100 Feet</u>
<u>Passenger Rides (tractor, sleigh, wagon, etc.)</u>	<u>NA</u>	<u>C</u>	<u>150 Feet</u>
<u>Weddings, Wedding Receptions</u>	<u>NA</u>	<u>C</u>	<u>150 Feet</u>
<u>Any Other Approved Agritourism Use</u>	<u>C</u>	<u>C</u>	<u>C</u>
*Setback distances in this table shall be reduced by up to one-half the setback distance when a continuous six-foot tall opaque fence is installed that screens the potential visual and audible impacts to dwellings on an adjacent lot.			

G. Agritourism Activity Uses that shall not be considered as an approved agritourism use:

1. Overnight Accommodations (lodging house, recreational vehicles, camping, etc.).
2. Assembly of one-thousand (1,000) guests or more (i.e., festivals, concerts, etc.).

H. Standards.

1. Proximity of agritourism activities to adjacent properties, existing buildings, and uses shall be considered in approving the conditional use permit.
2. Agritourism activities, structures and parking shall not be located within the minimum front yard setback.
3. New construction shall comply with the requirements of the City Code for accessory buildings.
4. The use is subject to Hyrum City zoning ordinance, business license ordinance, and conditional use permits ordinance.
5. The use is subject to Hyrum City nuisance ordinances regarding garbage collection and disposal, weed control, noise disturbance, and offenses against public peace, morals, and welfare. More than three (3) violations within a calendar year may result in the revocation of the conditional use permit and business license.

6. The agritourism site exterior lighting shall prevent glare onto adjacent properties and shall be dark-sky sensitive.
- I. Parking Requirements.
 1. All agritourism activities shall provide adequate off-street parking. No on-street parking within the public right of way is permitted.
 2. Parking stalls are to be nine (9) feet by twenty (20) feet and be contained on agritourism site.
 3. Any lights used to illuminate parking shall be arranged to reflect the light away from any dwelling on an adjacent lot.
 4. All required parking must provide adequate provision of ingress and egress by standard-sized automobiles.
 5. If a building structure, existing or new is included in the agritourism activity, a twenty (20) feet wide all-weather driveway surface from the public right of way to the building structure shall be required for fire and life safety emergency access on and off the site.
 - J. Fire Safety Inspection Required.
 1. The business license application shall be referred for approval to the Hyrum City Fire Department for investigation and inspection as to whether or not all ordinances and codes pertaining to fire and safety compel compliance prior to the issuance of a business license.



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Staff Evaluation

First Review

Application: Jeff Hinds, Enbridge Gas District Regulator Station and High-Pressure Gas Feeder Line – Seeking Site Plan Approval for upgrades to the District Regulator Station located at 388 West 300 North, and high-pressure gas feeder line from the District Regulation Station to 4650 South 1200 West. Application #25-030.

Application Number: 25-030
Preparation Date: February 10, 2026
Applicant Name: Jeff Hinds, Construction Manger
Property Owner: Questar Gas Company
Property Address: 388 West 300 North
Parcel Number: 01-177-0002
Parcel Area: 0.33 Acres

Planning Commission: February 12, 2026
Commission Role: Recommending Body to City Council
Application Type: Site Plan Approval

Zoning District: Light Manufacturing Zone M-1
Permitted Use: Public structures (i.e. courts, city hall, fire stations, public works, electrical, gas, and telephone transmission lines and stations, etc.)

Application Overview:

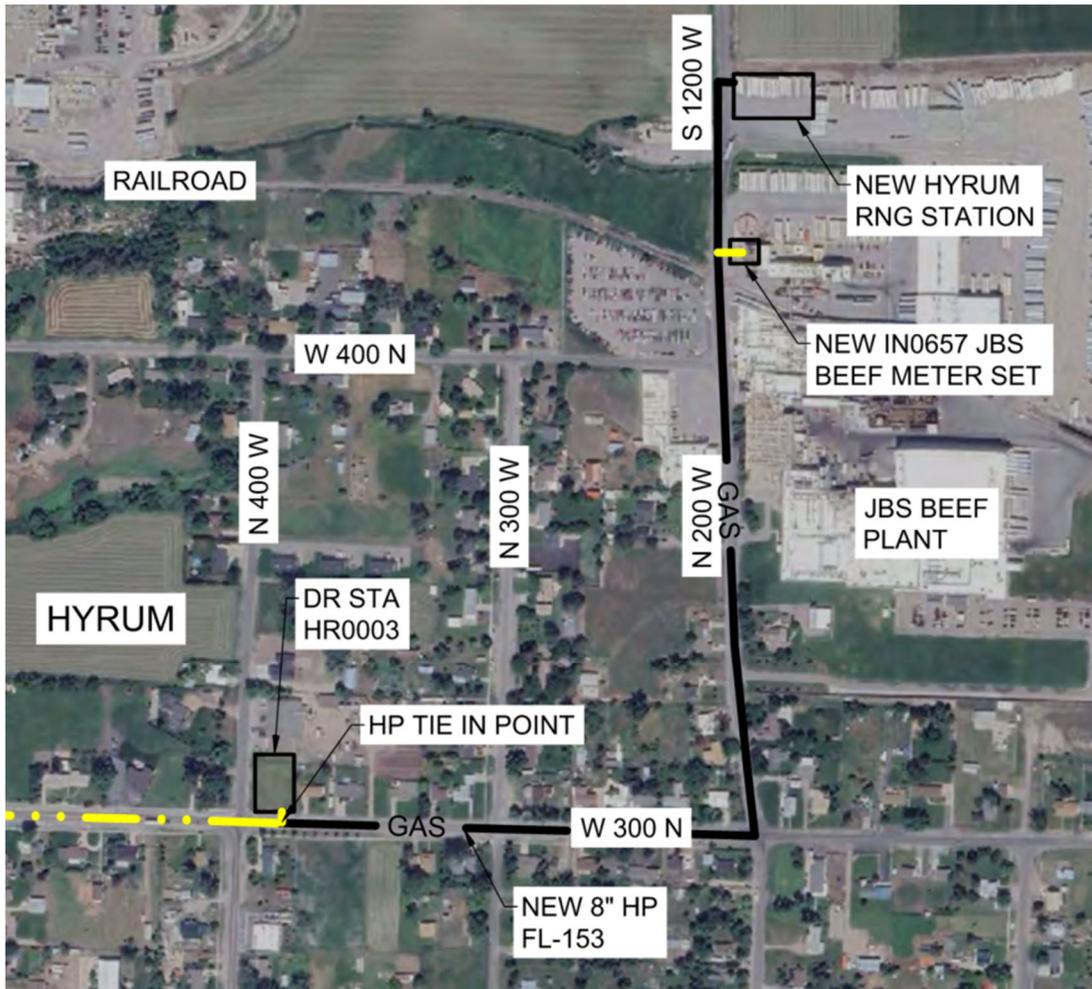
Hyrum City received a Site Plan Approval Application and Excavation and Right of Way Encroachment Application for Enbridge Gas to install a high-pressure feeder line from 388 West 300 North to 4650 South 1200 West to accommodate needs for the JBS Hyrum Beef Plant. The project will require construction work within the public right of way to the north boundary of the Hyrum City limits, cross the railroad switch yard, and continue north to a new station located at the JBS facility in Cache County limits. The length of the trench will be approximately 2000 lineal feet and 900 linear feet of borings.

Currently, the existing Enbridge facility located at 388 North 400 West is non-compliant with Hyrum City Code and the following corrections need to be completed prior to the issuance of site plan approval:

1. Demonstrate noise levels at the direct regulator station are in compliance Hyrum City Code 9.50 Noise Disturbance.
2. The existing Fire Hydrant onsite will need to be raised in elevation.
3. Landscaping on the site from the previous site plan approval has died and needs to be replaced.

The application will require Hyrum City Staff Review, Planning Commission Recommendation to City Council, Pre-Construction Meeting, and Hyrum City Project Management, Inspections and Construction Observations.

Project Vicinity Map:



Staff Comments:

Planning, Zoning and Building Department:

1. Contractor shall coordinate with regulations of Hyrum City Code 12.12 Excavations.
2. Contractor shall coordinate with regulations of Hyrum City Code 12.24 Excavation Permit.
3. Contractor shall coordinate with regulations of Hyrum City Code Title 13 Public Services.
4. Contractor shall coordinate with regulations of Hyrum City Construction Standards.
5. Staff recommends the City Council not approve the site plan for the direct regulator station located at 388 West 300 North until the following corrections are completed for compliance with Hyrum City Code:
 - a. Demonstrate noise levels at the direct regulator station are in compliance Hyrum City Code 9.50 Noise Disturbance.
 - b. The existing Fire Hydrant onsite will need to be raised in elevation.
 - c. Landscaping on the site from the previous site plan approval has died and needs to be replaced.
6. Applicant provided a letter regarding insurance. An insurance certificate needs to be provided as regulated by Hyrum City Code 12.24.130 Insurance Requirements.
7. All city utilities need to be backfilled with sand before applying flowable fill in trenches.
8. Public outreach for all construction activities shall be conducted with affected property owners in an informative and timely manner.
9. A Pre-construction meeting will be required following the City Council's approval of the construction drawings.

10. As-build documents will need to be provided to the city after completion of the project.

Engineering:

1. Currently under engineering review and comments will be provided to the City Council.

Power Department:

1. Be advised overhead power lines exist in the public right of way.
2. Work cautiously around underground power shown on Sheet 3 of 12 on the feeder line drawings.

Sewer Department:

1. Sewer lateral locations and top of lateral elevations need to be illustrated on the high-pressure feeder line construction documents prior to site plan approval.
2. Before and After completion sewer main CCTVs need to be provided to the city.
3. Sheet 7 of 12 on the feeder line drawings shows a 12'-0" offset dimension from sewer main. The sewer does not exist at this location.

Water/Streets Department:

1. Water and Irrigation lateral and main line locations and top elevations need to be illustrated on the high-pressure feeder line construction documents prior to site plan approval.
2. Need to provide a VMS traffic board entering Hyrum City on Highway 101 during the duration of the project.

PLANNING COMMISSION RESPONSIBILITY:

1. The Planning Commission should have a thorough discussion of the site plan, staff comments, and specifying conditions and requirements for approval.

STAFF RECOMMENDATION:

1. Staff recommends the Planning Commission make a motion specifying conditions and requirements, and staff comments to the City Council.

STIPULATIONS:

1. The City Council may approve, disapprove, approve with additional conditions and requirements, or require the requestor to return to the Planning Commission with revisions; or require the applicant to return revisions to the City Council.

FINDINGS OF FACT:

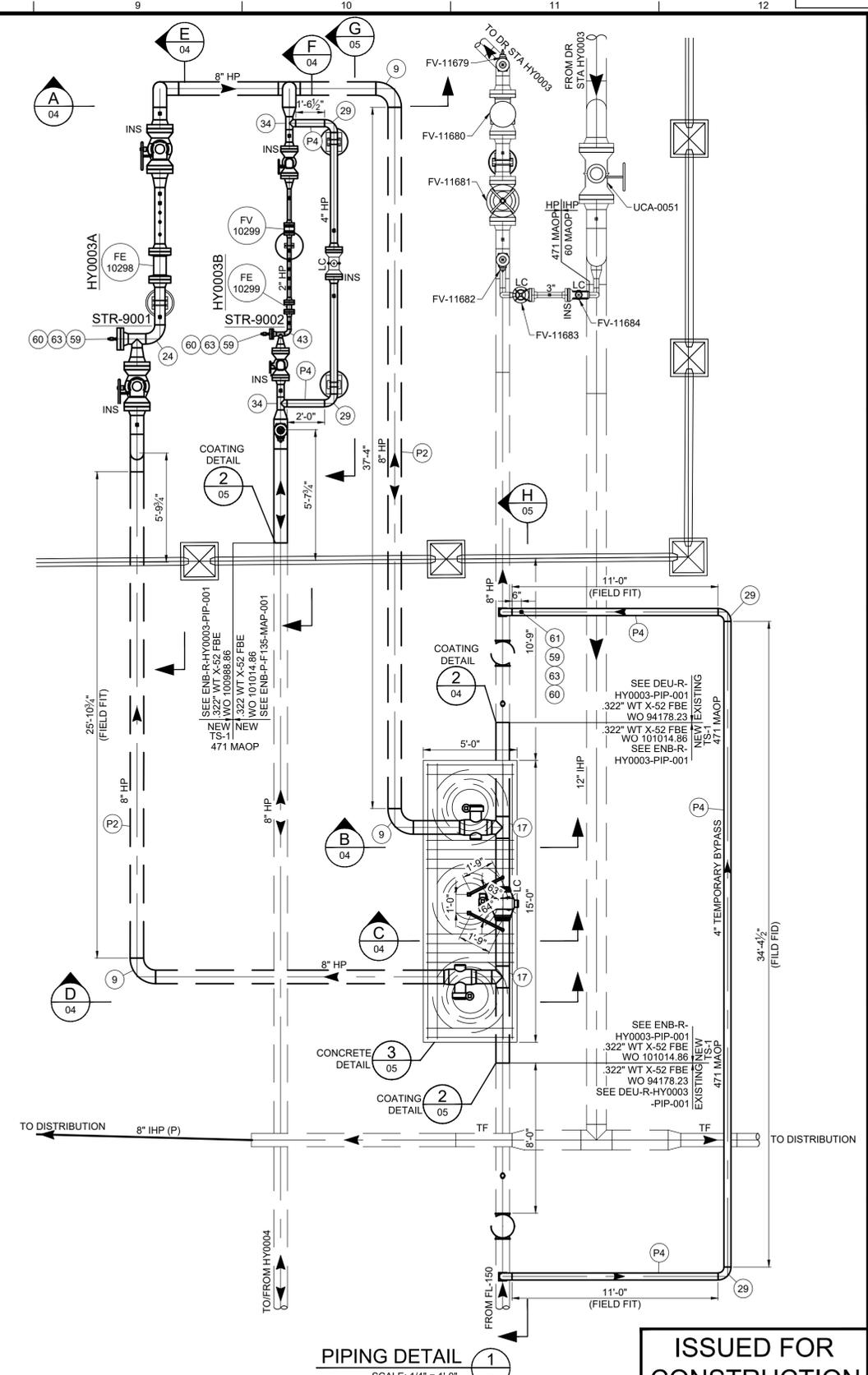
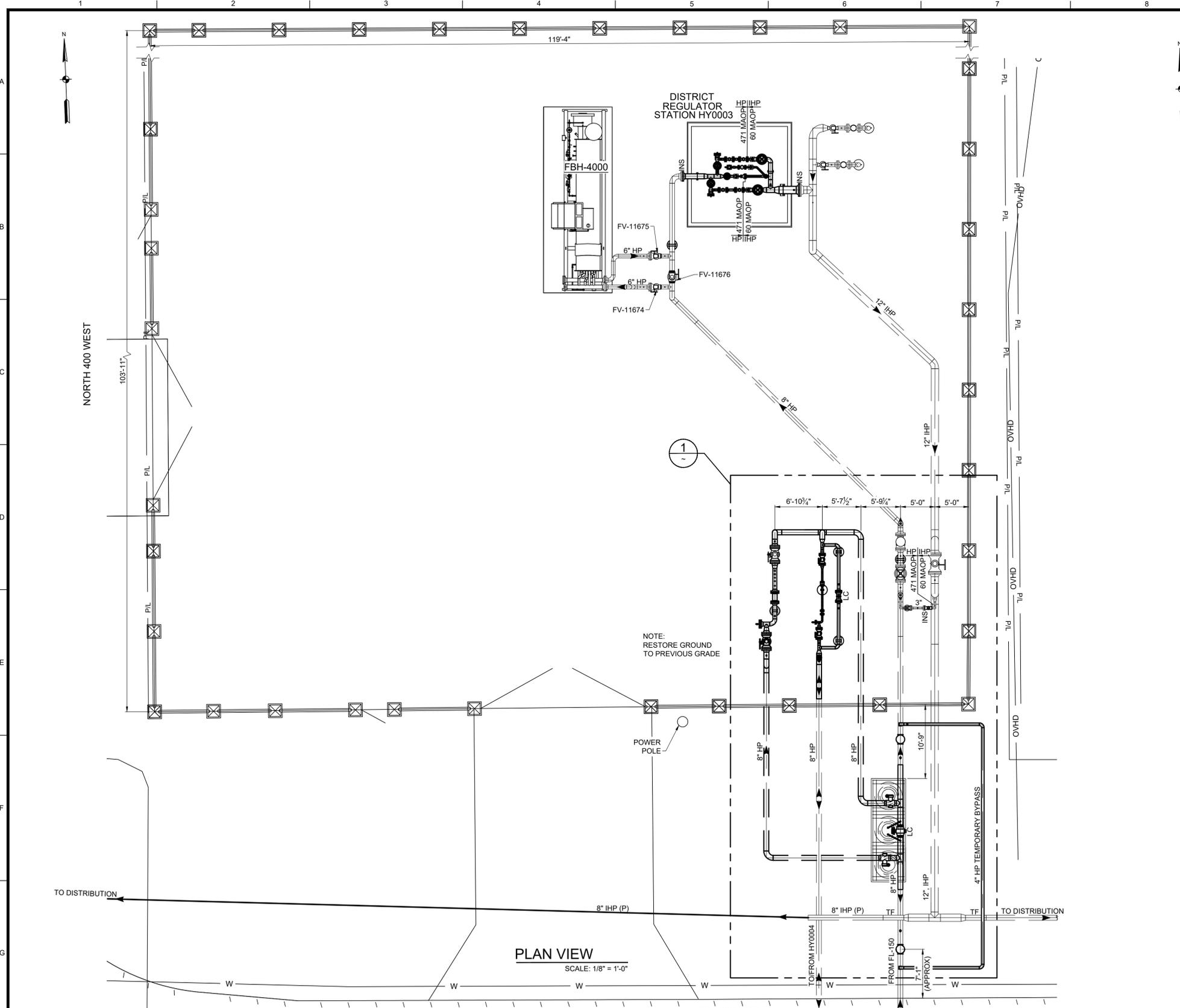
1. Public structures (i.e. courts, city hall, fire stations, public works, electrical, gas, and telephone transmission lines and stations, etc.)

Attachments:

- A. District Regulator Station Site Plans (4 Pages)
- B. Feeder Line Site Plans (30 Pages)
- C. Traffic Control Plans (8 Pages)

Submittals Not Attached On Hyrum City Record Available Upon Request:

- A. Storm Water Pollution Prevention Plan (114 Pages)
- B. Site Plan Application
- C. Excavation and Right-of-Way Encroachment Application



PLAN VIEW
SCALE: 1/8" = 1'-0"

PIPING DETAIL
SCALE: 1/4" = 1'-0"

ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS			ENGINEERING RECORD		
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY: K KEMPLE
ENB-P-F153-MAP-001	0	FL-153 ALIGNMENT TO HYRUM RING FACILITY	101014.86	0	ISSUED FOR CONSTRUCTION	10/16/2025	KJK	IAT	CHECKED BY: I TORRES
ENB-R-HY0003-PID-001	0	PIPING AND INSTRUMENTATION DIAGRAM							PROJECT ENGR: A ASPLUND
									SURVEYOR: E CLEMENCE
									ENGR MNGR: W RADFORD
									CONSTR MNGR: D FRANCIS
									MEAS & CTRLS: J ANDERSON
									AUTOM ENGR: K YAGI

ENBRIDGE

SECTION: 5 T10N R1E
ELEVATION: 4632'
LAT: 41.64079 LONG: -111.86568
SCALE: AS SHOWN

LINE NUMBER:	FL- 150 & 153
FACILITY:	DISTRICT REGULATOR STATION HY0003
TITLE:	BLOCK VALVE AND METER RUNS (HY0003A & HY0003B)
DESCRIPTION:	PLAN VIEW AND PIPING DETAIL
ADDRESS:	300 NORTH 400 WEST
CITY:	HYRUM
COUNTY:	CASHE
STATE:	UTAH
DRAWING NUMBER:	ENB-R-HY0003-PIP-001
SHEET:	3 OF 5
REVISION:	0

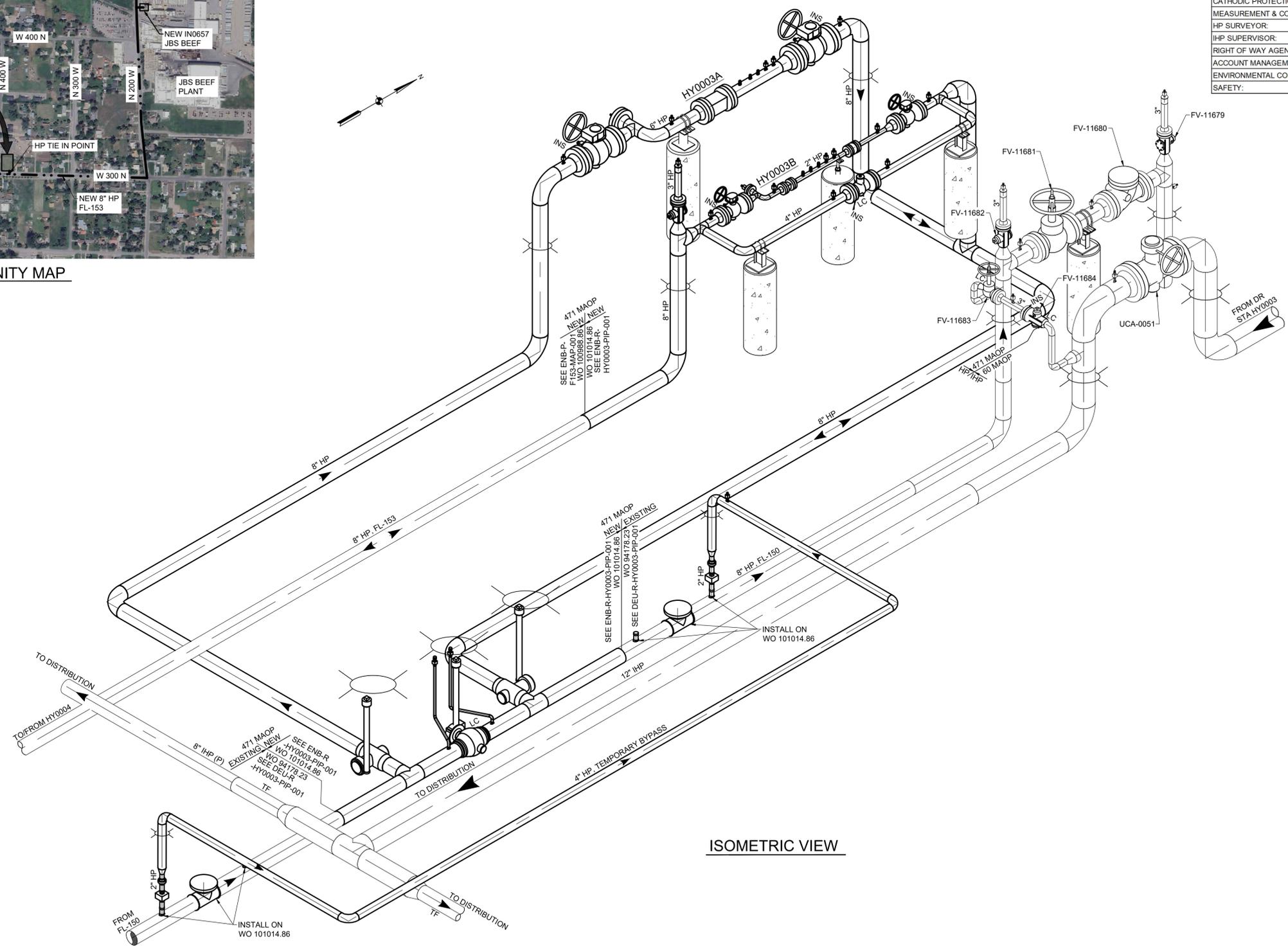
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ENBRIDGE GAS-ANSLD



VICINITY MAP

PROJECT CONTACTS		
PROJECT MANAGER:	ANDREW ASPLUND	(801) 694-3871
PROJECT ENGINEER:	ANDREW ASPLUND	(801) 694-3871
CATHODIC PROTECTION:	KENNETH WINN	(801) 310-3241
MEASUREMENT & CONTROLS:	JR SHARP	(801) 209-8126
HP SURVEYOR:	ENOCH CLEMENCE	(801) 793-7950
IHP SUPERVISOR:	ERIC FUHRMAN (NORTHERN - LOGAN)	(435) 881-0805
RIGHT OF WAY AGENT:	CAROLINE KING	(385) 499-0998
ACCOUNT MANAGEMENT / BUSINESS DEVELOPMENT:	SHELLY FOUTIN	(801) 201-6779
ENVIRONMENTAL COMPLIANCE:	STEPHAN RYDER	(330) 813-8805
SAFETY:	CARRIE CHRISTOFFERSON	(385) 910-7749



ISOMETRIC VIEW

- NOTES**
(ALL NOTES MAY OR MAY NOT PERTAIN TO THIS DRAWING)
- BOLD LINES AND/OR CLOUDS REPRESENT NEW PIPING.
 - R IDENTIFIES GUIDE BARRED TEES.
 - ANY MATERIAL SUBSTITUTION OR FIELD DESIGN CHANGES REQUIRE ENGINEERING APPROVAL.
 - SEE SPECIFICATION 9-00-01 FOR MATERIAL NOTE NUMBERS LISTED.
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 - 2\"/>



CALL THREE BUSINESS DAYS BEFORE YOU DIG TO HAVE UTILITIES LOCATED
811 OR 1-800-662-4111

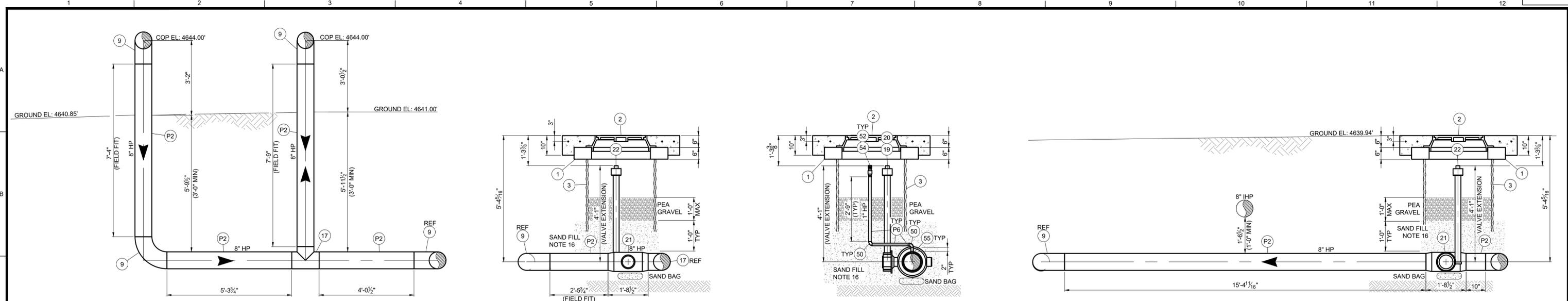
ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS			WORK ORDERS		REVISIONS				ENGINEERING RECORD		
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY:	KEMPLE
ENB-P-F153-MAP-001	0	FL-153 ALIGNMENT TO HYRUM RING FACILITY	101014.86	FL-153 TIE IN LOCATION	0	ISSUED FOR CONSTRUCTION	10/16/2025	KJK	IAT	CHECKED BY:	TORRES
ENB-R-HY0003-PID-001	0	PIPING AND INSTRUMENTATION DIAGRAM								PROJECT ENGR:	ASPLUND
										SURVEYOR:	CLEMENCE
										ENGR MNGR:	RADFORD
										CONSTR MNGR:	FRANCIS
										MEAS & CTRLS:	J ANDERSON
										AUTOM ENGR:	K YAGI

LINE NUMBER:	FL- 150 & 153		
FACILITY:	DISTRICT REGULATOR STATION HY0003		
TITLE:	BLOCK VALVE AND METER RUNS (HY0003A & HY0003B)		
DESCRIPTION:	VICINITY MAP AND ISOMETRIC VIEW		
ADDRESS:	300 NORTH 400 WEST		
CITY	COUNTY	STATE	
HYRUM	CASHE	UTAH	
DRAWING NUMBER		SHEET	REVISION
ENB-R-HY0003-PIP-001		1 OF 5	0

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ENBRIDGE GAS - ANS LD

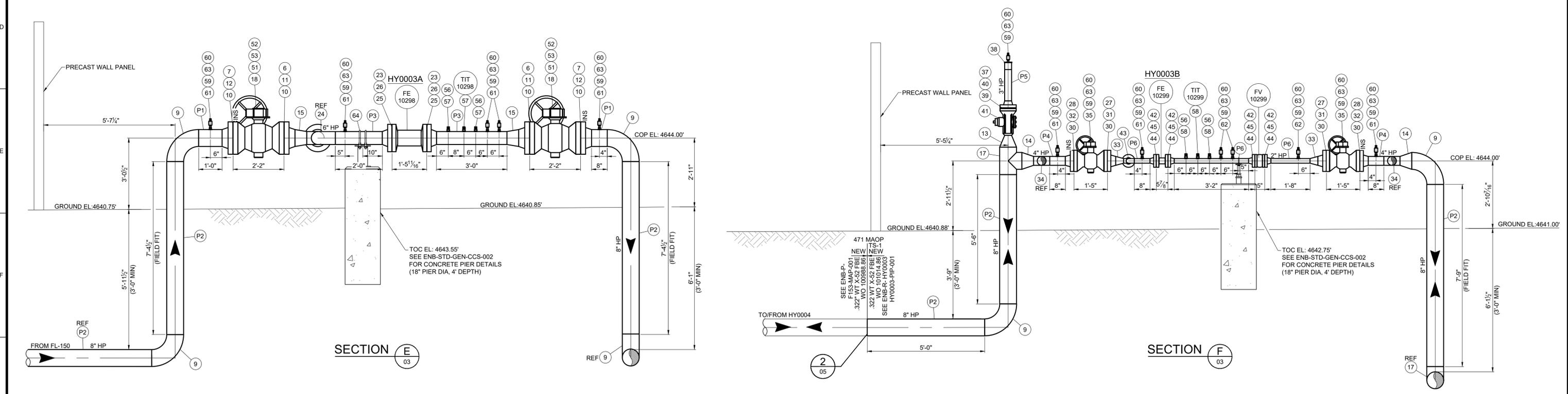


SECTION A
03

SECTION B
03

SECTION C
03

SECTION D
03



SECTION E
03

SECTION F
03

ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS				ENGINEERING RECORD	
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK
ENB-P-F153-MAP-001	0	FL-153 ALIGNMENT TO HYRUM RING FACILITY	101014.86	FL-153 TIE IN LOCATION	0	ISSUED FOR CONSTRUCTION	10/16/2025	KJK	IAT
ENB-R-HY0003-PIP-001	0	PIPING AND INSTRUMENTATION DIAGRAM							
ENB-STD-GEN-CCS-002	3	E-Z LINE PIPE SUPPORTS FIGURE "F" W/ I-ROD HEAD							

ENGINEERING RECORD		
DRAWN BY:	CHECKED BY:	DATE:
K KEMPLE	I TORRES	10/16/2025
PROJECT ENGR: A ASPLUND	SURVEYOR: E CLEMENCE	ENGR MNGR: W RADFORD
CONSTR MNGR: D FRANCIS	MEAS & CTRLS: J ANDERSON	AUTOM ENGR: K YAGI

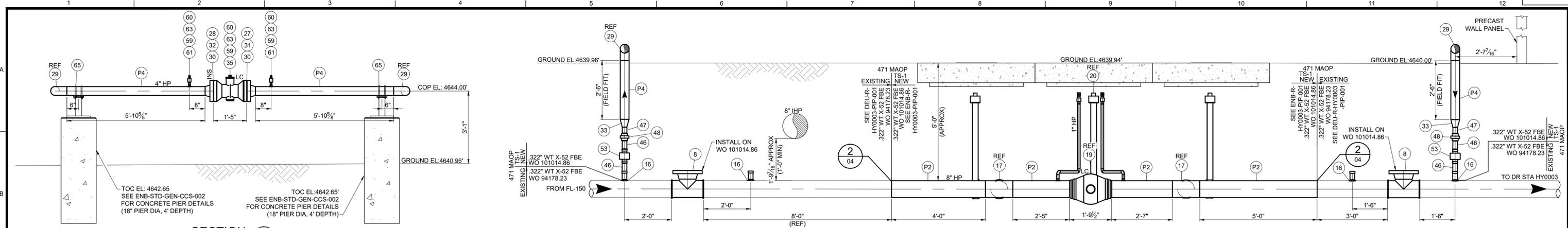
LINE NUMBER:	FL- 150 & 153
FACILITY:	DISTRICT REGULATOR STATION HY0003
TITLE:	BLOCK VALVE AND METER RUNS (HY0003A & HY0003B)
DESCRIPTION:	SECTIONS AND DETAILS
ADDRESS:	300 NORTH 400 WEST

CITY	COUNTY	STATE
HYRUM	CASHE	UTAH

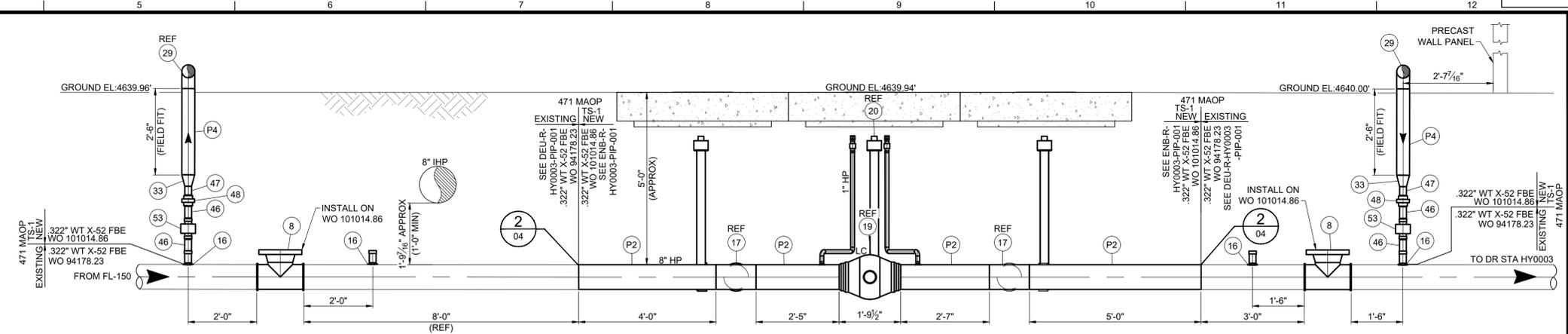
DRAWING NUMBER	SHEET	REVISION
ENB-R-HY0003-PIP-001	4 OF 5	0

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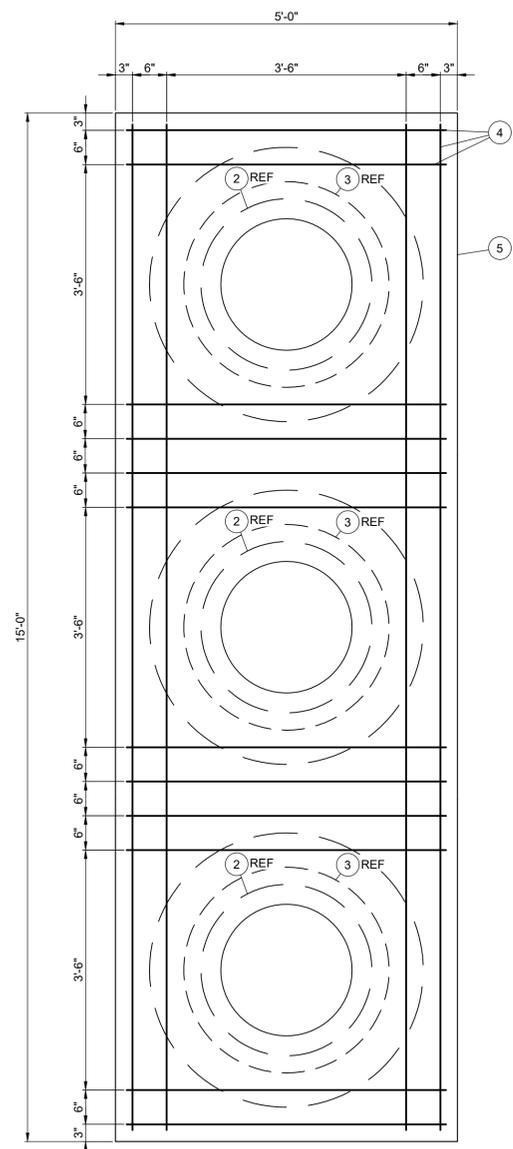
ENBRIDGE GAS-ANS LD



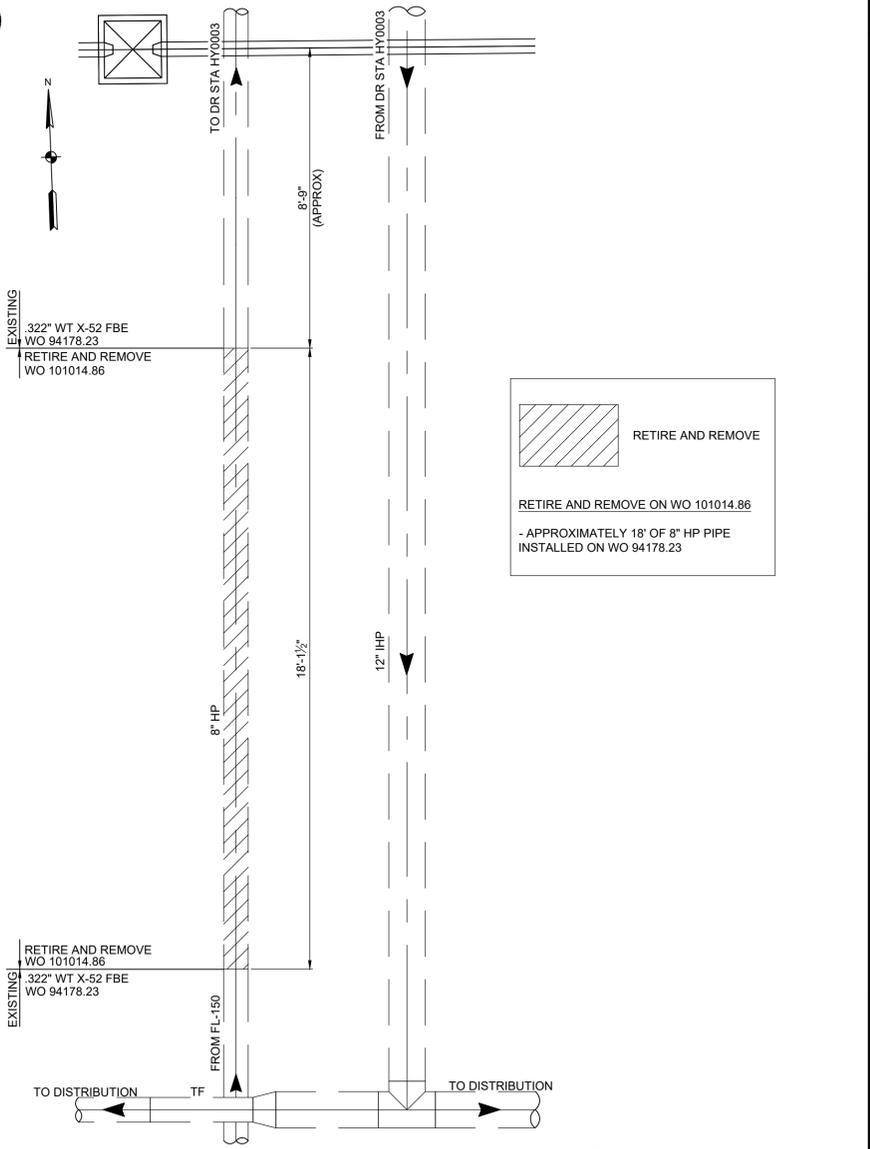
SECTION G
SCALE: 1/2" = 1'-0"



SECTION H
SCALE: 1/2" = 1'-0"



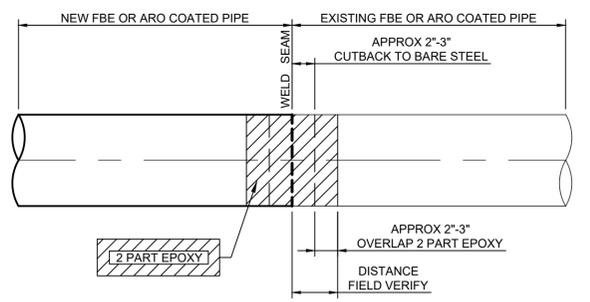
MAN HOLE DETAIL
SCALE: 3/4" = 1'-0"



RETIREMENT VIEW
SCALE: 3/8" = 1'-0"

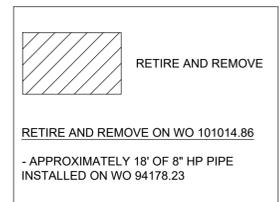
CONCRETE SPECIFICATIONS

- REINFORCING STEEL**
- REFERENCES
 - A. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
 - B. ACI "DETAILING MANUAL"
 - C. CRSI MSP-1 "MANUAL OF STANDARD PRACTICE"
 - REINFORCING STEEL: ASTM A706 DEFORMED BARS OR ASTM A615 GRADE 60 DEFORMED BARS WITH AN ACTUAL YIELD STRENGTH NOT EXCEEDING 78,000 PSI AND A RATIO OF ACTUAL ULTIMATE TENSILE STRENGTH TO ACTUAL YIELD STRENGTH NOT LESS THAN 1.25.
 - PROVIDE MINIMUM CONCRETE COVER OVER REINFORCING STEEL AS FOLLOWS, UNLESS STATED OTHERWISE:
 - 3 INCHES FOR CONCRETE CAST AGAINST EARTH
 - 2 INCHES OTHERWISE
 - PROVIDE MINIMUM 1 1/2" CONCRETE COVER TO TOP OF FLATWORK IF APPLICABLE.
 - SECURE ALL REINFORCING, INCLUDING DOWELS, IN POSITION WITH BAR SUPPORTS PER CRSI BEFORE CONCRETE PLACEMENT.
- CONCRETE MATERIALS**
- PORTLAND CEMENT: ASTM C150 TYPE I/II
 - FLY ASH: ASTM 618 CLASS C OR F INCLUDING TABLE 3 SPECIFICATIONS
 - A. CONTENT BY WEIGHT: 15% MINIMUM EXCEPT SLABS - 25% MAXIMUM
 - NORMAL WEIGHT AGGREGATES: ASTM C33, CLASS 3S OR GREATER
 - WATER: POTABLE, IN CONFORMANCE WITH ASTM C94
 - WATER-REDUCING ADMIXTURE: ASTM C494
 - AIR-ENTRAINING ADMIXTURE: ASTM C260
 - STRUCTURAL CONCRETE: ACI 318, CHAPTERS 3 AND 5.
 - CONCRETE SHALL DEVELOP THE FOLLOWING COMPRESSIVE STRENGTH WITHIN 28 DAYS FOR DRIVES, PADS AND FOOTINGS: 4000 PSI.
 - USE AIR-ENTRAINED CONCRETE OF 5%-7% AIR BY VOLUME.
 - CONCRETE SLUMP RANGE OF 3"-6".



COATING DETAIL
SCALE: NONE
03/04

NOTE: WHEN ARO COATED PIPE IS USED, THE 2 PART EPOXY COATING THICKNESS DURING SINGLE APPLICATION SHALL NOT EXCEED 40 MILS. BUILD UP TO MAX 70 MILS, WITH TARGET OF 60 MILS.



ISSUED FOR CONSTRUCTION

DRAWING NUMBER		REFERENCE DRAWINGS		WORK ORDERS		REVISIONS				ENGINEERING RECORD		
NO	DESCRIPTION	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY	CHECKED BY
0	ENB-P-F153-MAP-001	0	FL-153 ALIGNMENT TO HYRUM RING FACILITY	101014.86	FL-153 TIE IN LOCATION	0	ISSUED FOR CONSTRUCTION	10/16/2025	KJK	IAT	K KEMPLE	I TORRES
0	ENB-R-HY0003-PID-001	0	PIPING AND INSTRUMENTATION DIAGRAM								A ASPLUND	E CLEMENCE
3	ENB-STD-GEN-CCS-002	3	E-Z LINE PIPE SUPPORTS FIGURE "F" W/1-ROD HEAD								W RADFORD	D FRANCIS
											J ANDERSON	K YAGI

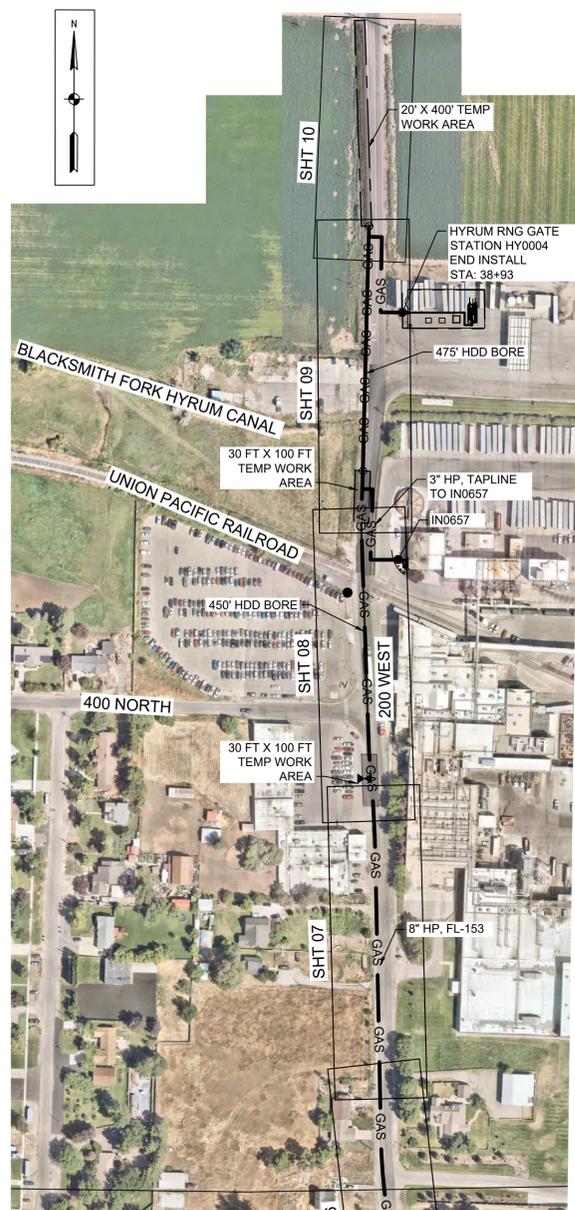
SECTION: 5 T10N R1E ELEVATION: 4632' LAT: 41.64079 LONG: -111.86568 SCALE: AS SHOWN		LINE NUMBER: FL-150 & 153 FACILITY: DISTRICT REGULATOR STATION HY0003 TITLE: BLOCK VALVE AND METER RUNS (HY0003A & HY0003B) DESCRIPTION: SECTION AND DETAILS ADDRESS: 300 NORTH 400 WEST	
CITY: HYRUM	COUNTY: CASHE	STATE: UTAH	DRAWING NUMBER: ENB-R-HY0003-PIP-001
SHEET: 5 OF 5		REVISION: 0	

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VICINITY MAP

SURVEY CONTROL				
FL-153 STAKEOUT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
FL-153 ALIGNMENT				
1	3757363.135	1540512.269	0	BP: 0+00
2	3757320.263	1540510.598	0	Pt. 0+42.9
3	3757274.393	1541864.924	0	Pt. 13+98.0
4	3757278.001	1541868.773	0	Pt. 14+03.3
5	3757590.337	1541816.629	0	PC: 17+19.9
6	3757854.503	1541791.396	0	PT: 19+85.7
7	3758350.339	1541781.363	0	PC: 24+81.7
8	3758522.477	1541772.104	0	PT: 26+54.1
9	3758552.53	1541769.398	0	BORE EXIT: 26+84.3
10	3759002.263	1541753.897	0	BORE ENTRY: 31+34.3
11	3759067.949	1541755.911	0	BP: 32+00 8X3 TEE
12	3759102.995	1541756.985	0	BORE ENTRY: 32+35.1
13	3759557.39	1541768.673	0	Pt. 36+89.6
14	3759577.838	1541769.199	0	BORE EXIT
15	3759557.004	1541794.039	0	Pt. 37+15
16	3759410.924	1541791.82	0	Pt. 38+61.1
17	3759410.11	1541845.407	0	EP: 39+14.7
IN0657 TAPLINE				
18	3759067.33	1541776.101	0	Pt. 0+20.2
19	3758930.363	1541772.156	0	Pt. 1+57.2
20	3758930.323	1541820.061	0	EP: 2+05
SURVEY CONTROL				
600	3757749.218	1544182.132	4619.03	SEC SE COR 32
601	3757702.925	1541541.384	4645.806	SEC S1/4 32
602	3757740.731	1538854.991	4622.088	SEC SW 32
603	3757316.232	1540367.397	4639.622	MON 300N 400W
604	3757290.492	1541118.844	4646.839	MON 300N 300W
605	3757234.303	1543400.574	4632.657	MON 300N CENTER ST
606	3755741.011	1541832.494	4664.151	MON 200S 100N
607	3757342.206	1539607.698	4634.712	MON 300N 500W
702	3757326.824	1540475.735	4640.012	CR-702
10073	3757303.685	1540394.592	4638.279	SSMH (BENCH MARK)
43515	3758941.865	1541829.567	4602.62	SSMH (BENCH MARK)
73997	3759282.047	1541812.684	4593.091	SSMH (BENCH MARK)



ALIGNMENT SHEET KEY



MATERIAL LIST						
NOTE 3						
ITEM #	QTY	SIZE	DESCRIPTION	MAWP NOTE 14	TEST SEG	MATL NOTES NOTE 4
WO #: 100988.86						
1	7	8"	ELL, CS, 90 DEG 5R, SEGMENTABLE, BW, 8.625 OD 0.322 WT, Y-52, ASTM A694, MSS SP75	1941	TS-1	3
2	10	8"	ELL, CS, 45 DEG 5R, SEGMENTABLE, BW, 8.625 OD 0.322 WT, Y-52, ASTM A694, MSS SP75	1941	TS-1	3
3	1	N/A	8" PIPELINE WITH 1/2" TAP VALVE ASSEMBLY - SEE ENB-P-F153-PIP-001-r0	N/A	N/A	N/A
4	5	N/A	CATHODIC PROTECTION PIPELINE CROSSING - SEE ENB-STD-COR-COR-009-r3	N/A	N/A	N/A
5	3	N/A	TEST STATION WITH GALVANIC ANODES - SEE ENB-STD-COR-COR-011-r5	N/A	N/A	N/A
6	2	N/A	METRIC CORR ELECTRICAL RESISTANCE PROBE - SEE ENB-STD-COR-COR-016-r2	N/A	N/A	N/A
WO #: 101233.54						
7	2	3"	ELL, CS, ES, 90 DEG, BW, LR, 3.500, OD 0.300 WT, GR-B, ASTM A234 WPB	3000	TS-1	2

PRESSURE PIPING						
NOTE 6						
ITEM #	SIZE	DESCRIPTION	FOOTAGE	O.D.	SMYS	W.T.
WO #: 100988.86						
P1	8"	PIPE, CS, FBE CTG, 8.625 OD, 0.322 WT, X52, A/F 5L PSL2, ERW	3057'	8.625"	52,000	0.322"
P2	8"	PIPE, CS, ARO CTG, 8.625 OD, 0.322 WT, X52, A/F 5L PSL2, ERW	905'	8.625"	52,000	0.322"
WO #: 101233.54						
P3	3"	PIPE, CS, FBE CTG, 3.500 OD, 0.300 WT, GR-B, ASTM A106, SMLS	205'	3.500"	35,000	0.300"

MAOP DETERMINATION			TEST SPECIFICATION		
(STANDARD PRACTICES 1-01-02, 1-90-01, 1-97-04)			(STANDARD PRACTICE 1-90-01 FOR HP OR 3-10-04 FOR IHP)		
MAOP SEGMENT NAME:	471 MAOP	TEST SPECIFICATION DESIGNATION:	TS-1		
PIPELINE FACILITY CLASSIFICATION:	PIPELINE	PRESSURE-TEST PRESSURES:	PSIG	%SMYS	
DESIGN CLASS LOCATION:	CLASS 3	MINIMUM REQUIRED:	1080	27.82%	
MINIMUM TEST PRESSURE:	1080	MAXIMUM (WATER):	1500	38.63%	
TEST FACTOR:	1.5	MAXIMUM (NITROGEN):	1500	38.63%	
PRESSURE LIMITS	PSIG	MAXIMUM (CNG):	NA	N/A	
A. PIPE = (2S/D) x F x E x T	1941	49.99%	PRESSURE-TEST DURATIONS:	SHOP	FIELD
	S=52000	T=0.322	MINIMUM DURATION:	1 HR	1 HR
	F=0.5	E=1	SMYS CALCULATION INPUTS:	S=52000	I=0.322
B. FITTING = (2S/D) x F x E x T	1941	49.99%	FABRICATION SPECIFICATION		
	S=52000	T=0.322	(STANDARD PRACTICE 2-10-01)		
	F=0.5	E=1	WELD REQUIREMENTS:	API 1104	
C. RATED ITEM	N/A	N/A	POST WELD HEAT TREATMENT:	NO	
	NONE		WELD INSPECTION:	VISUAL	NDE
D. MAXIMUM DESIGN PRESSURE	720	18.54%	GD-OM-E-010-001	100%	100% > 2"
E. REGION PRESSURE LIMITATION	471	12.13%	INSPECTION AND TESTING OF WELDS	100%	100% > 2"
MAOP (MIN A, B, C, D, E)	471	12.13%	ALL IN-SERVICE WELDING SHALL BE COMPLETED UTILIZING LOW HYDROGEN ELECTRODES (SP 2-10-01 AND SP 2-10-02)		

- NOTES**
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 - ALL PIPE SHALL HAVE MILL TEST REPORTS (MTR'S) AS DEFINED WITHIN STANDARD PRACTICE 3-95-01.
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 - 2" IN SERVICE FILLET WELDS SHALL RECEIVE 100% NDE.
 - PIPE IS DESIGNED TO WITHSTAND ANTICIPATED EXTERNAL PRESSURES AND LOADS FOLLOWING SP 1-01-02.



CALL THREE BUSINESS DAYS BEFORE YOU DIG TO HAVE UTILITIES LOCATED 811 OR 1-800-662-4111

PROJECT CONTACTS		
PROJECT MANAGER:	ANDREW ASPLUND	(801) 694-3797
PROJECT ENGINEER:	ANDREW ASPLUND	(801) 694-3797
CATHODIC PROTECTION:	KRISTI HOFFMANN	(801) 440-6960
MEASUREMENT & CONTROLS:	JR SHARP	(801) 694-3791
HP SURVEYOR:	ENOCH CLEMENCE	(801) 793-7950
LEAD INSPECTOR:		
IHP SUPERVISOR:	ERIC FUHRMAN (NORTHERN - LOGAN)	(435) 881-0805
RIGHT OF WAY AGENT:	CAROLINE KING	(385) 499-0998
ACCOUNT MANAGEMENT / BUSINESS DEVELOPMENT:	SHELLY FOUTIN	(801) 201-6779
ENVIRONMENTAL COMPLIANCE:	STEPHAN RYDER	(330) 813-8805
SAFETY:	CARRIE CHRISTOPHERSON	(385) 910-7749

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS				ENGINEERING RECORD	
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY:
ENB-G-HYRNG-PIP-001	0	HYRUM RING GATE STATION & INDUSTRIAL MTR SET IN0656	100988.86	0	ISSUE FOR CONSTRUCTION	10/16/2025	JAJ	ERB	J. JOHNSON
DEU-R-HY0003-PIP-001	1	DISTRICT REGULATOR STATION HY0003	101233.54						E. BUSH
ENB-M-IN0657-PIP-001	0	INDUSTRIAL METER SET IN0657							A. ASPLUND
ENB-P-F153-PIP-001	0	IN0657 TAP DETAILS							E. CLEMENCE



LINE NUMBER:	FL- 153		
FACILITY:	FEEDERLINE TO HY0004 RING GATE STATION		
TITLE:	INSTALL APPROX 3800 FEET OF 8" HP PIPE		
DESCRIPTION/VICINITY MAP, ALIGNMENT SHT KEY, & MATERIALS			
ADDRESS:	300 N AND 400 W TO 4650 S AND 1200 W		
CITY	HYRUM	COUNTY	CACHE
STATE	UTAH		
DRAWING NUMBER	ENB-P-F153-MAP-001		
SHEET	1 OF 12	REVISION	0

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LINE AND SYMBOL LEGEND

NOTE: MAY CONTAIN LINES AND SYMBOLS THAT ARE NOT USED IN THIS PLAN SET.

	GAS	PROPOSED HIGH PRESSURE (HP) GAS LINE		ANODE
	EXISTING HP GAS LINE		CATHODIC PROTECTION TEST STATION	
	RETIRE/REMOVE HP GAS LINE		GAS MANHOLE	
	EXISTING IHP GAS SERVICE LINE		VALVE	
	EXISTING IHP GAS LINE		PRESSURE FITTING	
	PRIVATE / MISC. EASEMENT		DEAD END	
	ENBRIDGE GAS RIGHT-OF-WAY		R/W MONUMENT / C/4 MONUMENT	
	PUE		PROPERTY PIN or P/I	
	R/W		REBAR AND CAP	
	PUBLIC UTILITY EASEMENT		POINT-OF-BEGINNING	
	RIGHT-OF-WAY - ROAD		EXISTING MONUMENT	
	RIGHT-OF-WAY - HIGHWAY		STATION EQUATION	
	PLSS SECTION LINE		SECTION CORNER, 1/4 CORNER MONUMENT	
	SURVEY LINE		CONIFEROUS TREE	
	ROAD CENTERLINE		DECIDUOUS TREE	
	CURB AND GUTTER		BUSH / SHRUB	
	EDGE OF ROAD / ASPHALT		LANDSCAPE BOULDERS	
	RIVER / CANAL		SIGNAL POLE	
	EXISTING RAILROAD TRACKS		LIGHTPOLE	
	PROPERTY LINE / LOT LINE		SIGN	
	PRECAST WALL		BILLBOARD	
	BARBED WIRE FENCE LINE		CABLE TV PEDESTAL	
	DRAINAGE FLOW LINE		FIBER OPTIC PEDESTAL	
	EXISTING CABLE TV LINE		POWER PEDESTAL	
	EXISTING BURIED COMM LINE		SIGNAL PEDESTAL	
	EXISTING OVERHEAD COMM LINE		TELEPHONE PEDESTAL / JUNCTION BOX	
	EXISTING FIBER OPTIC LINE		MISC POLE	
	EXISTING IRRIGATION LINE		GUY WIRE	
	EXISTING BURIED POWER LINE			
	EXISTING OVERHEAD POWER LINE			
	EXISTING SANITARY SEWER LINE			
	EXISTING STORM DRAIN LINE			
	EXISTING DOMESTIC WATER LINE			
	MATCHLINE			
	EXISTING CONTOURS			
	PROPOSED CONTOURS			

	CABLE TV MANHOLE		STRUCTURAL FILL
	FIBER OPTIC MANHOLE		GRAVEL
	IRRIGATION MANHOLE		CONCRETE
	MISC. MANHOLE		RIP RAP
	POWER MANHOLE		FLOW FILL
	SEWER MANHOLE		BORE
	SIGNAL MANHOLE		
	STORMDRAIN MANHOLE		
	TELEPHONE MANHOLE		
	WATER MANHOLE		
	WATER METER CURB BOX		
	FIRE HYDRANT		
	STORM DRAIN CATCH BASIN		
	STORM DRAIN VAULT		

GENERAL NOTES

1.1 GENERAL:

- ALL STATIONING IS REFERENCED TO CENTERLINE OF PIPELINE ALIGNMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING A BENCHMARK FOR USE IN SITE PREPARATION.
- PROTECTION AND REPLACEMENT OF SURVEY MONUMENTS OR PROPERTY STAKES NOT DELINEATED ON THE CONTRACT DRAWINGS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. REPLACEMENT OF SURVEY MONUMENTS OR PROPERTY STAKES SHALL BE DONE TO COUNTY STANDARDS.
- THE CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE AND ALL SUCH IMPROVEMENTS DAMAGED BY THE CONTRACTORS OPERATION SHALL BE REPAIRED OR RECONSTRUCTED TO THE ENGINEER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.
- TRENCH BACKFILL MATERIAL UNDER PAVEMENTS OR SURFACE IMPROVEMENTS SHALL BE CLEAN, NON-CLUMPING, GRANULAR (A1-A4 SOILS ARE ACCEPTABLE ACCORDING TO AASHTO 145 SOIL CLASSIFICATION SYSTEM).
- LIME TREATED FLOWABLE FILLS, IF APPROVED, SHALL HAVE A 28-DAY STRENGTH OF 65 PSI. TRENCH BACKFILL WITHIN R.O.W.'S AND CITY MAINTAINED FACILITIES SHALL BE IN ACCORDANCE WITH STANDARDS. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETE ALL WORK AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. WORK SHALL INCLUDE CLEARING, REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS, GRADING, EXCAVATING, BACKFILLING, AND ALL RELATED ITEMS. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND ORDINANCES OF FEDERAL, STATE, REGIONAL AND LOCAL GOVERNING AUTHORITIES HAVING JURISDICTION.
- CONDUCT ALL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.
- EXPLOSIVES ARE PROHIBITED ON THE PROJECT SITE, UNLESS APPROVED BY COMPANY. SEE SP. 9-11-01 7. BLASTING.
- GRANULAR EMBANKMENT MATERIAL PLACED AGAINST ANY CONCRETE STRUCTURE SHALL BE 2 INCH MINUS OR LESS.
- THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE REPORTED TO THE COMPANY ECC AND PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
- IF CONSTRUCTION IS HALTED DUE TO INCLEMENT WEATHER CONDITIONS, THE CONTRACTOR SHALL CLEAN UP THE PROJECT SITE, AND MAINTAIN THE SITE DURING THE SHUT-DOWN PERIOD.

1.2 PERMITTING NOTES:

- CONTRACTOR TO WORK WITH OWNER TO OBTAIN ALL PERMITS AND LICENSES PRIOR TO COMMENCING WORK ON THIS PROJECT.
- ANY WORK WITHIN A PUBLIC RIGHT-OF-WAY SHALL BE COORDINATED WITH THE APPROPRIATE JURISDICTION. CONTRACTOR SHALL MEET ANY ADDITIONAL REQUIREMENTS OF SAID JURISDICTION.
- THE CONTRACTOR SHALL TAKE PRECAUTION TO PREVENT DAMAGE TO ADJACENT PROPERTY AND RESTORE ANY DAMAGES TO ORIGINAL CONDITIONS WITHOUT ADDITIONAL PROJECT COSTS.

1.3 INSPECTION AND TESTING NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR MATERIALS TESTING INCLUDING BUT NOT LIMITED TO CONCRETE, ASPHALT, AND COMPACTION. SEE CONTRACT SPECIFICATIONS FOR REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE TO COORDINATE TESTS AND INSPECTIONS WITH THE PROJECT ENGINEER AND SPECIAL INSPECTOR.
- CONTRACTOR IS RESPONSIBLE FOR RE-INSPECTIONS DUE TO POOR WORKMANSHIP.
- CONTRACTOR TO FOLLOW NOISE ORDINANCE STANDARDS OF LOCAL GOVERNING AGENCY.
- CONTRACTORS ARE RESPONSIBLE FOR ALL OSHA REQUIREMENTS ON THE PROJECT SITE.
- SOIL TESTS PERFORMED SHALL INCLUDE:
 - OPTIMUM MOISTURE - MAXIMUM DENSITY CURVE (FOR EACH SOIL ENCOUNTERED).
 - COMPRESSIVE STRENGTH AND/OR BEARING TEST (OF EACH SOIL STRATA).
 - FIELD DENSITY TEST
 - TEST REPORTS ON BORROW MATERIAL
 - THE CONTRACTOR, AT ITS OWN EXPENSE, SHALL EMPLOY CONSULTANTS OR TESTING SERVICES TO PERFORM INSPECTIONS AND TESTS NECESSARY TO ASSURE THE SPECIFIED COMPACTION AND OTHER MINIMUM REQUIREMENTS AS SHOWN IN THE CONTRACT DOCUMENTS.
 - A COPY OF ALL SOIL TEST RESULTS SHALL BE SUBMITTED TO THE OWNER FOR ITS RECORD.

1.4 EXISTING UTILITY NOTES:

- EXISTING UTILITY LOCATIONS AND DEPTHS ARE APPROXIMATE UNLESS NOTED OTHERWISE.
- CONTRACTOR TO CONTACT BLUE STAKES FOR MARKING OF EXISTING UTILITIES PRIOR TO PERFORMING ANY EXCAVATION.
- AFFECTED UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR:
 - VERIFYING ALL UTILITY LOCATIONS PRIOR TO COMMENCING WORK.
 - IDENTIFYING CONFLICTS A MINIMUM OF 500 FEET AHEAD OF TRENCHING OPERATIONS.
 - IMMEDIATELY NOTIFYING THE PROJECT ENGINEER OF DISCREPANCIES AND OR CONFLICTS.
 - MAINTAINING SERVICE OF OTHER UTILITIES AND NOTIFYING THEM IF CONSTRUCTION MAY INTERFERE WITH NORMAL OPERATIONS.
 - RESTORING ANY DAMAGED UTILITIES DUE TO CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- MODIFICATIONS TO EXISTING UTILITIES SHALL CONFORM TO THE OWNER'S UTILITY STANDARDS AND SPECIFICATIONS.

1.5 ROUGH GRADING NOTES:

- IN THE EVENT THAT ANY UNFORESEEN CONDITIONS ARE ENCOUNTERED DURING GRADING OPERATIONS, NOTIFY THE PROJECT ENGINEER FOR DIRECTION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY EARTHWORK WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
- CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PROTECT WORKERS AND PREVENT UNDERMINING OF ANY ADJACENT FEATURES, FACILITIES OR STRUCTURES AND/OR CAVING OF THE EXCAVATION.
- ANY CONSTRUCTION WASTE (SOIL, ROCKS, TREES, ASPHALT, BUILDING DEMOLITION, ETC) LEAVING THE PROJECT SITE IS REQUIRED TO BE DISPOSED OF AT A FACILITY PRE-APPROVED BY THE COMPANY.
- THE GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
- CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED.

HORIZONTAL VERTICAL COMPACTION

- PAVEMENT AREA SUBGRADE 0.11+ -0.0' TO -0.1' SEE SOILS REPORT
- ENGINEERED FILL 0.5+ +0.1' TO -0.1' SEE SOILS REPORT

- ALL OUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
- FILL IS DEFINED AS MATERIAL FOR FILLING AND BACKFILLING THAT SHALL BE CLEAN SUBSOIL FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN GREATEST DIMENSION. TOPSOIL, DEBRIS, WASTE, FROZEN MATERIALS, VEGETABLE AND OTHER DELETERIOUS MATTER PREVENTING UNIFORM CONTROLLABLE COMPACTION.
- UNLESS OTHERWISE SPECIFIED, CONTRACTOR SHALL CLEAR AND DISPOSE ALL VEGETATION FROM THE LIMITS OF CONSTRUCTION AS SHOWN ON THE DRAWINGS.
- ALL TREES, BUSHES, ETC., SHALL BE CUT WITH THE STUMPS HAVING AT LEAST 6 INCHES OF PROJECTION ABOVE GROUND SO THEY WILL NOT BE MISSED DURING GRUBBING OPERATIONS. DISPOSAL OF VEGETATION INCLUDING LIMBS SHALL BE REMOVED AND DISPOSED OF OFF SITE.
- ALL CONSTRUCTION AREAS ON WHICH WORK IS TO BE PERFORMED, INCLUDING EXCAVATION, EMBANKMENT, ROADS, PARKING AREAS, OPERATING AREAS, OR OTHER AREAS AS SHOWN ON DRAWINGS SHALL BE STRIPPED OF ALL TOP SOIL AND DEBRIS TO A DEPTH OF 6" MINIMUM UNLESS OTHERWISE SPECIFIED IN THE GEOTECHNICAL REPORT. THIS MATERIAL CAN BE STOCKPILED, RAKED, AND CLEANED OF DEBRIS, AND REUSED AS FILL AT THE DISCRETION OF THE OWNER AS SPECIFIED.
- CONTRACTOR SHALL REMOVE FROM THE CONSTRUCTION AREA ALL STUMPS, INCLUDING THEIR ROOT STRUCTURE, DOWN TIMBER AND DEBRIS (INCLUDING CONCRETE SLABS, FOUNDATIONS, STRUCTURES, ETC.) ALL MATERIAL LYING ON THE SURFACE OR PARTIALLY BURIED SHALL BE REMOVED. DISPOSAL OF GRUBBING MATERIALS SHALL BE BY HAULING OFF SITE TO A COMPANY APPROVED LOCATION.
- STUMP GRINDING OR OTHER APPROVED REMOVAL METHODS MAY BE REQUIRED WHEN IN PROXIMITY TO BURIED UTILITIES AT THE DISCRETION OF THE OWNER AND PROJECT ENGINEER.
- THE CONTOUR LINES AND ELEVATIONS ON THE TOPOGRAPHICAL DRAWINGS SHOWING EXISTING ELEVATIONS ARE ONLY APPROXIMATE; THEREFORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ESTIMATING THE AMOUNT OF GRADING, EARTHWORK, AND FILL MATERIAL REQUIRED. OWNER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF CONTOUR LINES OF ELEVATIONS SHOWING EXISTING ELEVATIONS.

ABBREVIATIONS

NOTE: MAY CONTAIN ABBREVIATIONS THAT ARE NOT USED IN THIS PLAN SET. SOURCE: ASME Y14.38-2007

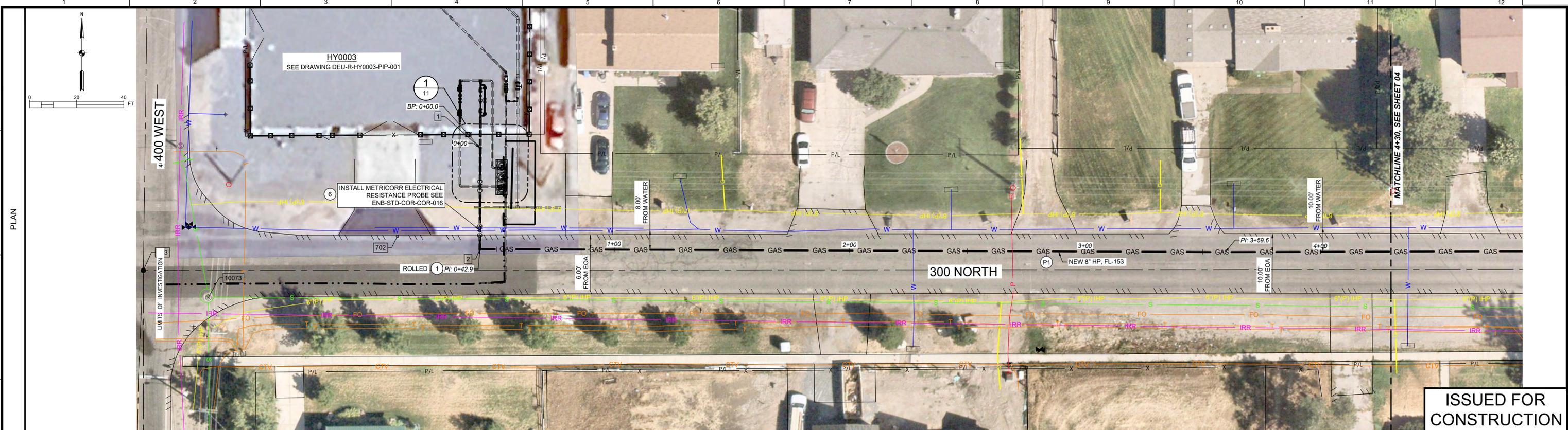
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	NIC	NOT IN CONTRACT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	NO / #	NUMBER
BOC	BACK OF CURB	OC	ON CENTER
BOW	BACK OF WALK	OCEW	ON CENTER EACH WAY
BV	BLOCK VALVE	OHP	OVERHEAD POWER
BVC	BEGIN VERTICAL CURVE	PC	POINT OF CURVATURE OR PRESSURE
C	CURVE	PCC	CLASS
CB	CATCH BASIN	PI	POINT OF INTERSECTION
CL	CENTER LINE	PIV	POST INDICATOR VALVE
COMM	COMMUNICATION	P/L	PROPERTY LINE
CONC	CONCRETE	PRC	POINT OF REVERSE CURVATURE
CONT	CONTINUOUS	PRO	PROPOSED
DIA	DIAMETER	PT	POINT OF TANGENCY
EG	EXISTING GRADE	PVC	POINT OF VERTICAL CURVATURE
ELEC	ELECTRICAL	PVI	POINT OF VERTICAL INTERSECTION
ELEV / EL	ELEVATION	PVT	POINT OF VERTICAL TANGENCY
EOA	EDGE OF ASPHALT	R	RADIUS
EVC	END OF VERTICAL CURVE	ROW / R/W	RIGHT OF WAY
EW	EACH WAY	S	SLOPE
EXIST	EXISTING	SD	STORM DRAIN
FF	FINISH FLOOR	SS	SANITARY SEWER
FG	FINISH GRADE	STA	STATION
FL	FLOW LINE OR FLANGE	SW	SIDEWALK
GB	GRADE BREAK		
HP	HIGH POINT	TOG	TOP OF GRATE
IRR	IRRIGATION	TOA	TOP OF ASPHALT
LF	LINEAR FEET	TOC	TOP OF CONCRETE
LOC	LIP OF CURB	TOE	TOE OF SLOPE
LP	LOW POINT	TOF	TOP OF FOUNDATION
MH	MANHOLE	TOW	TOP OF WALL
NG	NATURAL GROUND	TOS	TOP OF STEP
		TYP	TYPICAL
		VC	VERTICAL CURVE

ISSUED FOR CONSTRUCTION

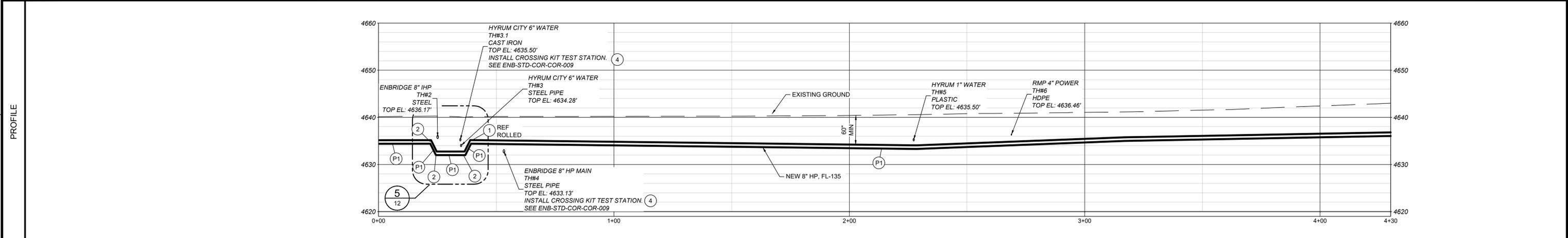
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ENB-G-HYRNG-PIP-001	0	HYRUM RING GATE STATION & INDUSTRIAL MTR SET IN0656	100988.86	INSTALL 3800 LF OF 8" FL-153 PIPELINE	0	ISSUE FOR CONSTRUCTION	10/09/2025	JAJ	ERB
DEU-R-HY0003-PIP-001	1	DISTRICT REGULATOR STATION HY0003							

DRAWN BY: J. JOHNSON CHECKED BY: E. BUSH PROJECT ENGR: A. ASPLUND SURVEYOR: E. CLEMENCE ENGR MNGR: W. RADFORD CONSTR MNGR: D FRANCIS	SECTION: 5, 32 T 10, 11 N R 1 E ELEVATION: LAT: 41.646324 LONG: -111.860670 SCALE: NONE	CITY: HYRUM COUNTY: CACHE STATE: UTAH	LINE NUMBER: FL-153 FACILITY: FEEDERLINE TO HY0004 RING GATE STATION TITLE: INSTALL APPROX 3800 FEET OF 8" HP PIPE DESCRIPTION: LEGEND AND GENERAL NOTES ADDRESS: 300 N AND 400 W TO 4650 S AND 1200 W
MEAS & CTRLS: AUTOM ENGR:			DRAWING NUMBER: ENB-P-F153-MAP-001 SHEET: 2 OF 12 REVISION: 0

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PROJECT CONTROLS	INSTALL METHOD:	OPEN TRENCH - SEE DETAIL 7 SHEET 12	OPEN TRENCH - SEE DETAIL 8 SHEET 12
	RECLAMATION:		
	EROSION CONTROL:		N/A
	ENVIRONMENTAL:		N/A
OWNER	AC MITIGATION:		N/A
			HYRUM
PIPE DATA	PIPE DETAILS:	8" HP, .322" WT X52 FBE	
	DESIGN CLASS LOC. / MAOP (OPERATING):	CLASS 3 / 471 MAOP	
	MINIMUM COVER:	60" MINIMUM COVER	

REFERENCE DRAWINGS				WORK ORDERS		REVISIONS				ENGINEERING RECORD			
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY:	CHECKED BY:	PROJECT ENGR:	SURVEYOR:
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ENB-STD-COR-COR-009	3	CATHODIC PROTECTION PIPELINE CROSSING										W. RADFORD	
ENB-STD-COR-COR-016	2	METRICORR ELECTRICAL RESISTANCE PROBE										D. FRANCIS	

LINE NUMBER: FL-153

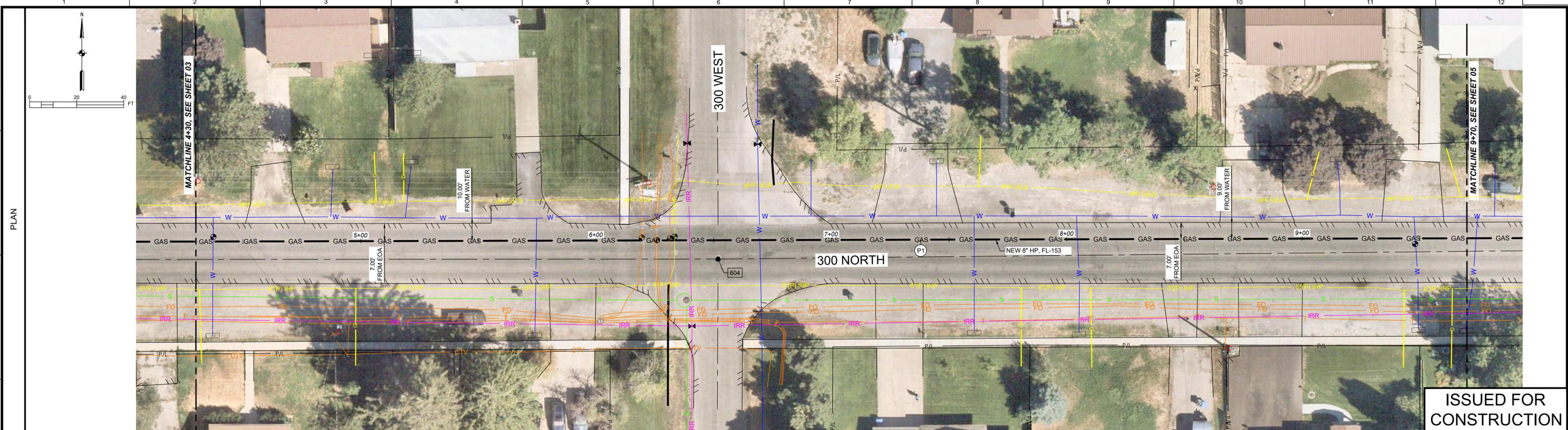
FACILITY: FEEDERLINE TO HY0004 RNG GATE STATION

TITLE: INSTALL APPROX 3800 FEET OF 8" HP PIPE

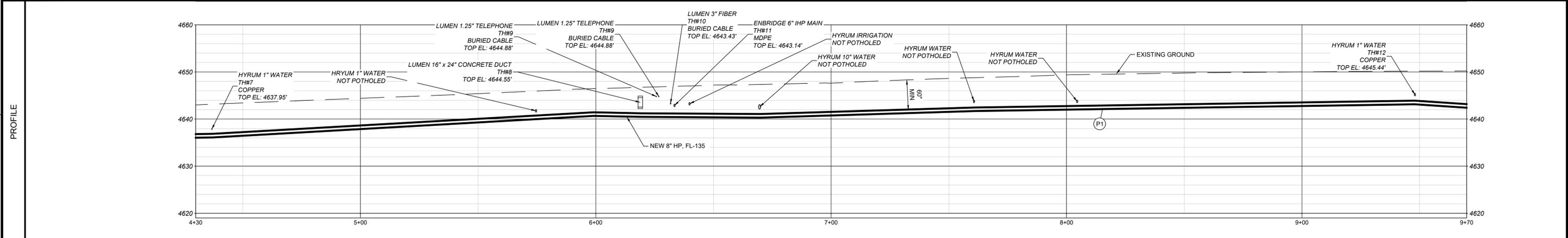
DESCRIPTION: ALIGNMENT PLAN AND PROFILE

ADDRESS: 300 N AND 400 W TO 4650 S AND 1200 W

SECTION: 5.32 T10, 11N R1E	CITY: HYRUM	COUNTY: CACHE	STATE: UTAH
ELEVATION:	DRAWING NUMBER: ENB-P-F153-MAP-001		
LAT: 41.646324 LONG: -111.860670	SHEET: 3 OF 12		
SCALE: HORIZ: 1"=40'-0" VERT: 1"=20'-0"	REVISION: 0		



ISSUED FOR CONSTRUCTION



PROJECT CONTROLS	INSTALL METHOD:	OPEN TRENCH - SEE DETAIL 8 SHEET 12
	RECLAMATION:	N/A
	EROSION CONTROL:	N/A
	ENVIRONMENTAL:	N/A
OWNER	AC MITIGATION:	N/A
		HYRUM

PIPE DATA	PIPE DETAILS:	8" HP .322" WT X62 FBE
	DESIGN CLASS LOC. / MAOP (OPERATING):	CLASS 3 / 471 MAOP
	MINIMUM COVER:	60" MINIMUM COVER

REFERENCE DRAWINGS			WORK ORDERS		REVISIONS				ENGINEERING RECORD			
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY:	J. JOHNSON	
			100988.86	INSTALL 3800 LF OF 8" FL-153 PIPELINE	0	ISSUE FOR CONSTRUCTION	10/09/2025	JAJ	ERB	CHECKED BY:	E. BUSH	
										PROJECT ENGR:	A. ASPLUND	
										SURVEYOR:	E. CLEMENCE	
										ENGR MNGR:	W. RADFORD	
										CONSTR MNGR:	D. FRANCIS	
										MEAS & CTRLS:		
										AUTOM ENGR:		

LINE NUMBER: FL-153

FACILITY: FEEDERLINE TO HY0004 RNG GATE STATION

TITLE: INSTALL APPROX 3800 FEET OF 8" HP PIPE

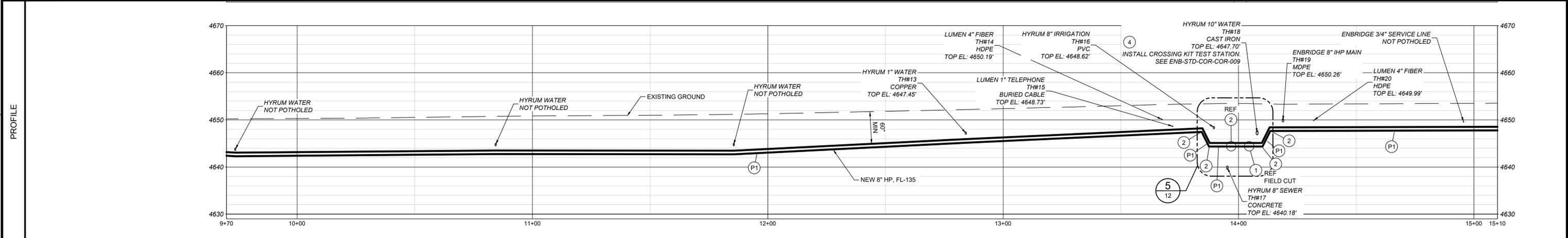
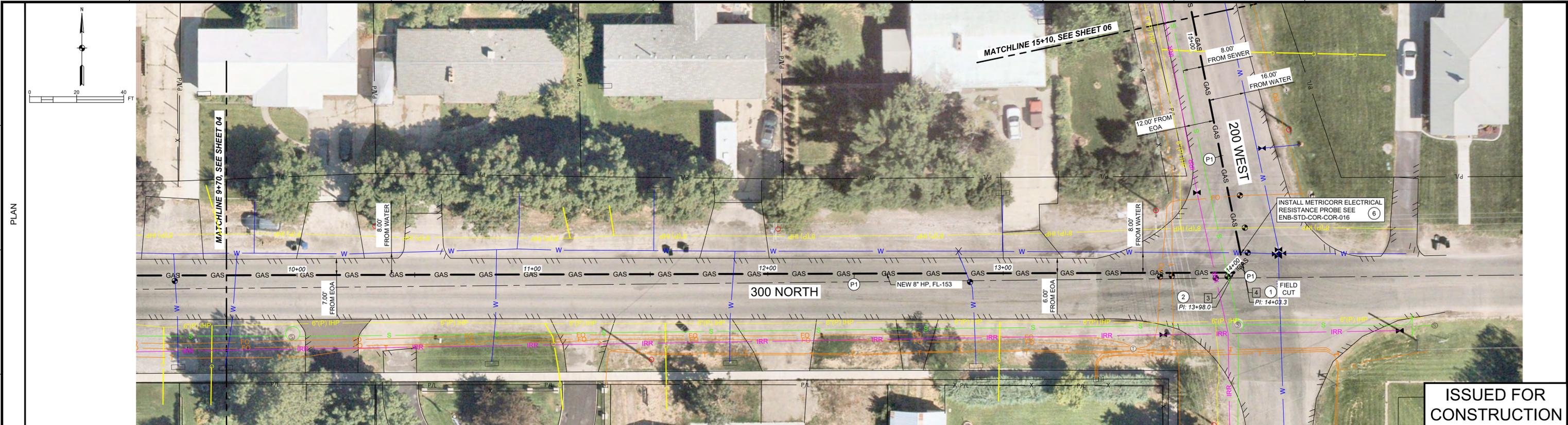
DESCRIPTION: ALIGNMENT PLAN AND PROFILE

ADDRESS: 300 N AND 400 W TO 4650 S AND 1200 W

SECTION: 5.32 T10.11N R1E	CITY: HYRUM	COUNTY: CACHE	STATE: UTAH
ELEVATION:	DRAWING NUMBER: ENB-P-F153-MAP-001		
LAT: 41.646324 LONG: -111.860670	SHEET: 4 OF 12		
SCALE: HORIZ: 1"=40'-0" VERT: 1"=20'-0"	REVISION: 0		

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ENBRIDGE GAS "ANSI D"



PROJECT CONTROLS	INSTALL METHOD:	OPEN TRENCH - SEE DETAIL 8 SHEET 12
	RECLAMATION:	N/A
	EROSION CONTROL:	N/A
	ENVIRONMENTAL:	N/A
OWNER	AC MITIGATION:	N/A
		HYRUM

PIPE DATA	PIPE DETAILS:	8" HP, .322" WT X62 FBE
	DESIGN CLASS LOC. / MAOP (OPERATING):	CLASS 3 / 471 MAOP
	MINIMUM COVER:	60" MINIMUM COVER

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS			ENGINEERING RECORD			
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY: J. JOHNSON
ENB-STD-COR-COR-009	3	CATHODIC PROTECTION PIPELINE CROSSING	100988.86	INSTALL 3800 LF OF 8" FL-153 PIPELINE	0	ISSUE FOR CONSTRUCTION	10/09/2025	JAJ	ERB	CHECKED BY: E. BUSH
ENB-STD-COR-COR-016	2	METRICORR ELECTRICAL RESISTANCE PROBE								PROJECT ENGR: A. ASPLUND SURVEYOR: E. CLEMENCE ENGR MNGR: W. RADFORD CONSTR MNGR: D FRANCIS

SECTION: 5, 32 T10, 11 N R1 E

ELEVATION: 3800

LAT: 41.646324 LONG: -111.860670

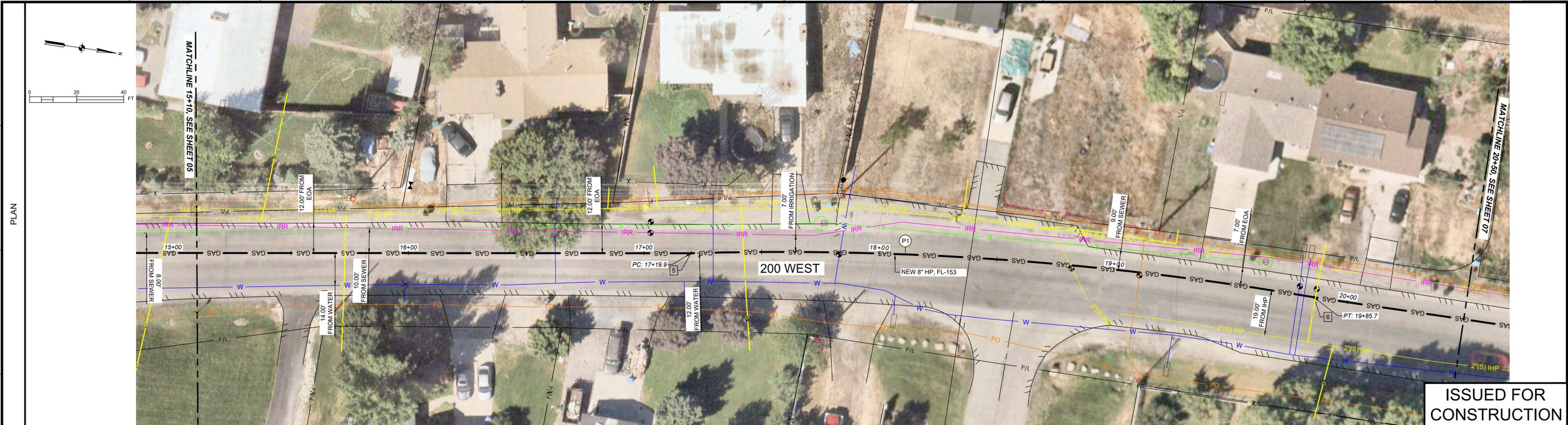
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CITY: HYRUM COUNTY: CACHE STATE: UTAH

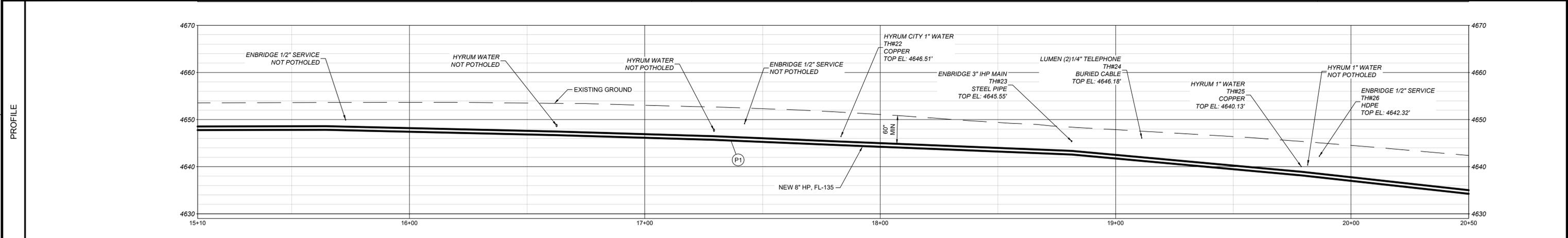
FL-153
FEEDERLINE TO HY0004 RNG GATE STATION
INSTALL APPROX 3800 FEET OF 8" HP PIPE
ALIGNMENT PLAN AND PROFILE
300 N AND 400 W TO 4650 S AND 1200 W

DRAWING NUMBER: ENB-P-F153-MAP-001

SHEET: 5 OF 12 REVISION: 0



ISSUED FOR CONSTRUCTION



PROJECT CONTROLS	INSTALL METHOD:	OPEN TRENCH - SEE DETAIL 8 SHEET 12
	RECLAMATION:	N/A
	EROSION CONTROL:	N/A
	ENVIRONMENTAL:	N/A
OWNER	AC MITIGATION:	N/A
	OWNER:	HYRUM

PIPE DATA	PIPE DETAILS:	8" HP .322" WT X62 FBE
	DESIGN CLASS LOC. / MAOP (OPERATING):	CLASS 3 / 471 MAOP
	MINIMUM COVER:	60" MINIMUM COVER

REFERENCE DRAWINGS			WORK ORDERS		REVISIONS				ENGINEERING RECORD		
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY:	CHECKED BY:
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LINE NUMBER: FL-153

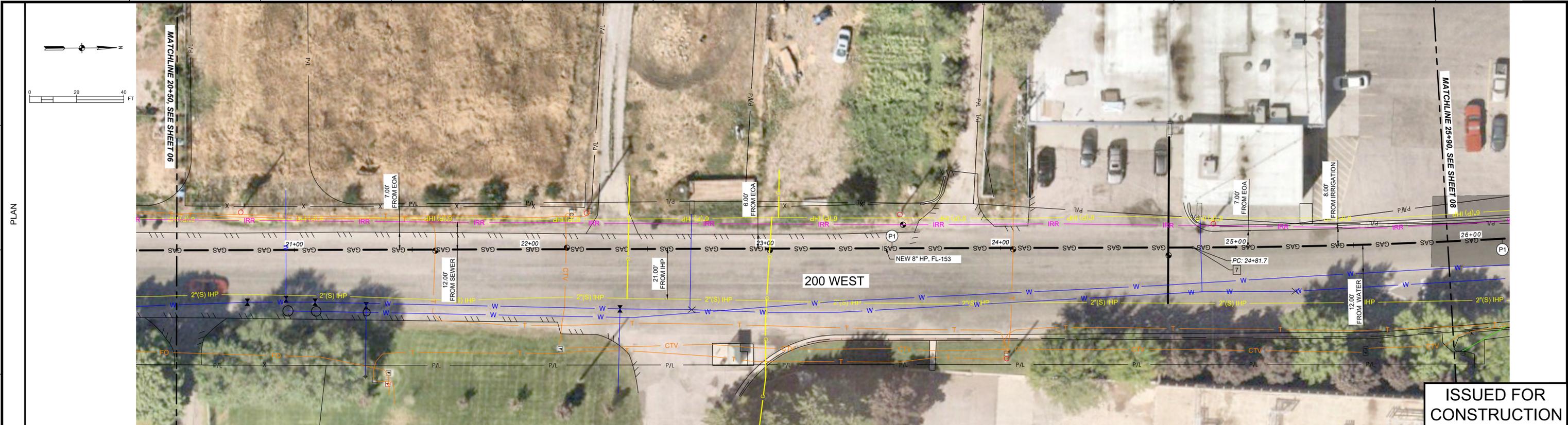
FACILITY: FEEDERLINE TO HY0004 RNG GATE STATION

TITLE: INSTALL APPROX 3800 FEET OF 8" HP PIPE

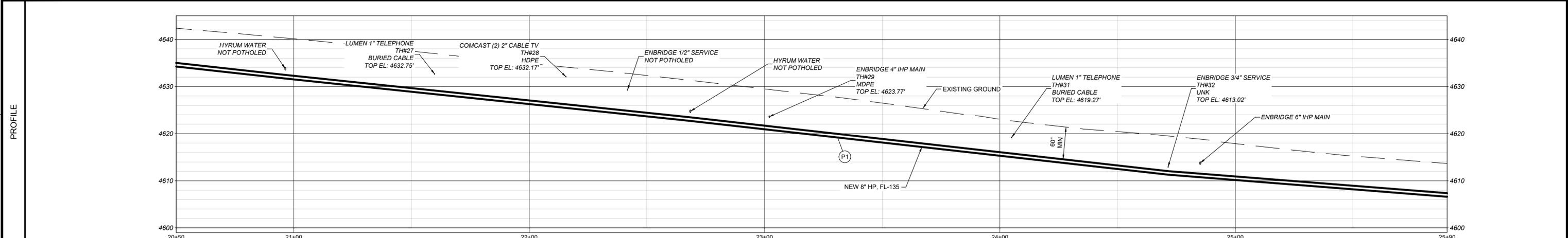
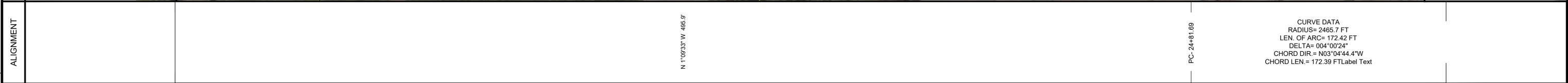
DESCRIPTION: ALIGNMENT PLAN AND PROFILE

ADDRESS: 300 N AND 400 W TO 4650 S AND 1200 W

CITY: HYRUM	COUNTY: CACHE	STATE: UTAH
DRAWING NUMBER: ENB-P-F153-MAP-001		
SHEET: 6 OF 12	REVISION: 0	



ISSUED FOR CONSTRUCTION



PROJECT CONTROLS	INSTALL METHOD:	OPEN TRENCH - SEE DETAIL 8 SHEET 12
	RECLAMATION:	N/A
	EROSION CONTROL:	N/A
	ENVIRONMENTAL:	N/A
OWNER	AC MITIGATION:	N/A
	OWNER:	HYRUM

PIPE DATA	PIPE DETAILS:	8" HP, .322" WT X62 FBE
	DESIGN CLASS LOC. / MAOP (OPERATING):	CLASS 3 / 471 MAOP
	MINIMUM COVER:	60" MINIMUM COVER

REFERENCE DRAWINGS			WORK ORDERS		REVISIONS				ENGINEERING RECORD		
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY:	ENGINEER:
			100988.86	INSTALL 3800 LF OF 8" FL-153 PIPELINE	0	ISSUE FOR CONSTRUCTION	10/09/2025	JAJ	ERB	J. JOHNSON	E. BUSH

LINE NUMBER: FL-153

FACILITY: FEEDERLINE TO HY0004 RNG GATE STATION

TITLE: INSTALL APPROX 3800 FEET OF 8" HP PIPE

DESCRIPTION: ALIGNMENT PLAN AND PROFILE

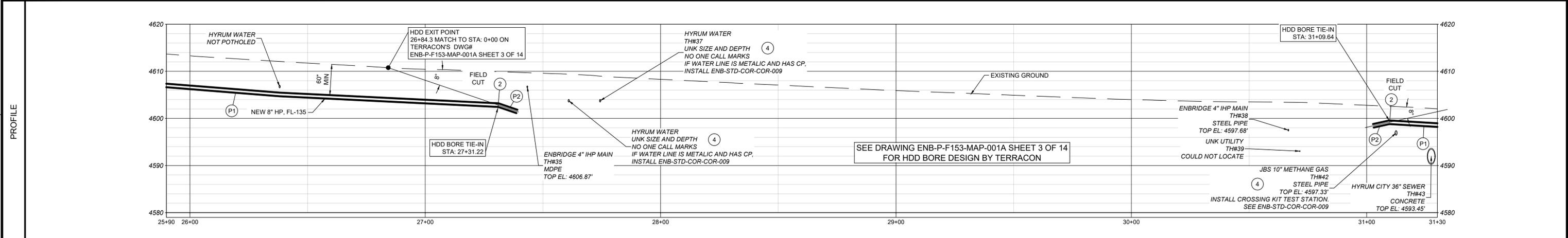
ADDRESS: 300 N AND 400 W TO 4650 S AND 1200 W

SECTION: 5, 32 T10, 11 N R1 E	CITY: HYRUM	COUNTY: CACHE	STATE: UTAH
ELEVATION:	DRAWING NUMBER: ENB-P-F153-MAP-001		
LAT: 41.646324 LONG: -111.860670	SHEET: 7 OF 12		
SCALE: HORIZ: 1"=40'-0" VERT: 1"=20'-0"	REVISION: 0		



ISSUED FOR CONSTRUCTION

ALIGNMENT	CURVE DATA RADIUS= 2465.7 FT LEN. OF ARC= 172.42 FT DELTA= 004°00'24" CHORD DIR= N03°04'44.4"W CHORD LEN= 172.39 FT Label Text	PT- 26+54.11	N 5°09'40" W 30.2'	PI- 26+84.3 3° 10' 13"	N 1°58'27" W 450.0'



PROJECT CONTROLS	INSTALL METHOD:	OPEN TRENCH - SEE DETAIL 8 SHEET 12	HDD BORE - SEE TERRACON DRAWING ENB-P-F153-MAP-001A SHEET 3 OF 14 FOR BORE DESIGN	OPEN TRENCH - SEE DETAIL 8 SHEET 10
	RECLAMATION:			
	EROSION CONTROL:			
	ENVIRONMENTAL:			
OWNER	AC MITIGATION:			

PIPE DATA	PIPE DETAILS:	8" HP .322" WT X52 FBE	8" HP .322" WT X52 ARO	8" HP .322" WT X52 FBE
	DESIGN CLASS LOC. / MAOP (OPERATING):		CLASS 3 / 471 MAOP	
	MINIMUM COVER:	60" MINIMUM COVER	VARIES	42" MINIMUM COVER

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS			ENGINEERING RECORD			
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY: J. JOHNSON
ENB-P-F153-MAP-001A	0	SEE TERRACON DRAWING SHEET (3) FOR BORE DESIGN	100988.86	INSTALL 3800 LF OF 8" FL-153 PIPELINE	0	ISSUE FOR CONSTRUCTION	10/09/2025	JAJ	ERB	CHECKED BY: E. BUSH
ENB-M-IN0657-PIP-001	0	INDUSTRIAL METER SET IN0657	101233.54	INSTALL 3" SERVICE LINE TO IN0657						PROJECT ENGR: A. ASPLUND
ENB-STD-COR-COR-009	3	CATHODIC PROTECTION PIPELINE CROSSING								SURVEYOR: E. CLEMENCE
ENB-STD-COR-COR-011	5	TEST STATION WITH GALVANIC ANODES								ENGR MNGR: W. RADFORD
										CONSTR MNGR: D FRANCIS
										MEAS & CTRLS:
										AUTOM ENGR:

LINE NUMBER: FL- 153

FACILITY: 300 N AND 400 W TO 4650 S AND 1200 W

TITLE: **INSTALL APPROX 3800 FEET OF 8" HP PIPE ALIGNMENT PLAN AND PROFILE**

DESCRIPTION: 300 N AND 400 W TO 4650 S AND 1200 W

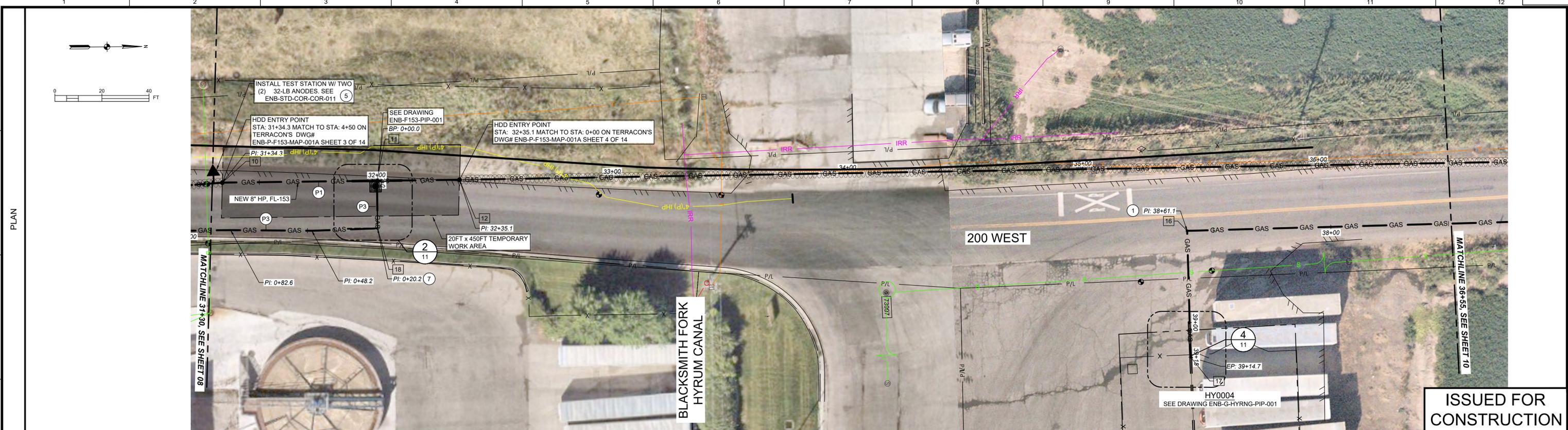
ADDRESS:

CITY: HYRUM	COUNTY: CACHE	STATE: UTAH
DRAWING NUMBER: ENB-P-F153-MAP-001		
SHEET: 8 OF 12	REVISION: 0	

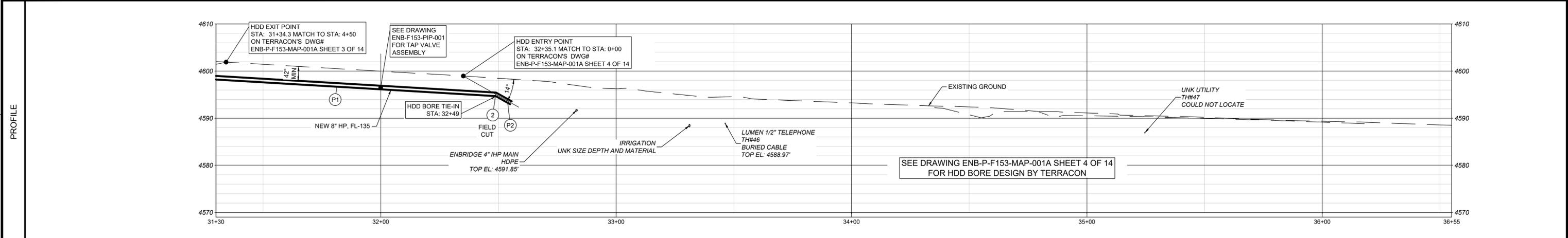
SECTION: 5.32 T10, 11N R1E
ELEVATION:
LAT: 41.646324 LONG: -111.860670
SCALE: HORIZ: 1"=40'-0" VERT: 1"=20'-0"

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ISSUED FOR CONSTRUCTION



PROJECT CONTROLS	INSTALL METHOD:	OPEN TRENCH - SEE DETAIL 8 SHEET 12	HDD BORE - SEE TERRACON DRAWING ENB-P-F153-MAP-001A SHEET 4 OF 14 FOR BORE DESIGN
	RECLAMATION:		N/A
	EROSION CONTROL:		N/A
	ENVIRONMENTAL:		N/A
OWNER	AC MITIGATION:		N/A
			HYRUM

PIPE DATA	PIPE DETAILS:	8" HP, 322" WT X52 FBE	8" HP, 322" WT X52 ARO
	DESIGN CLASS LOC. / MAOP (OPERATING):		CLASS 3 / 471 MAOP
	MINIMUM COVER:	42" MINIMUM COVER	VARIES

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS				ENGINEERING RECORD	
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY: J. JOHNSON
ENB-G-HYRNG-PIP-001	0	HYRUM RING GATE STATION & INDUSTRIAL MTR SET IN0656	100988.86	0	INSTALL 3800 LF OF 8" FL-153 PIPELINE	10/16/2025	JAJ	ERB	CHECKED BY: E. BUSH
ENB-P-F153-MAP-001A	0	SEE TERRACON DRAWING FOR BORE DESIGN	101233.54		INSTALL 3" SERVICE LINE TO IN0657				PROJECT ENGR: A. ASPLUND
ENB-P-F153-MAP-001B	0	SEE TERRACON DRAWING FOR BORE DESIGN							SURVEYOR: E. CLEMENCE
ENB-P-F153-PIP-001	0	8x3 BURIED VALVE ASSEMBLY							ENGR MNGR: W. RADFORD
ENB-STD-COR-COR-011	5	TEST STATION WITH GALVANIC ANODES							CONSTR MNGR: D FRANCIS
								MEAS & CTRLS:	
								AUTOM ENGR:	

LINE NUMBER: FL-153

FACILITY: FEEDERLINE TO HY0004 RING GATE STATION

TITLE: INSTALL APPROX 3800 FEET OF 8" HP PIPE

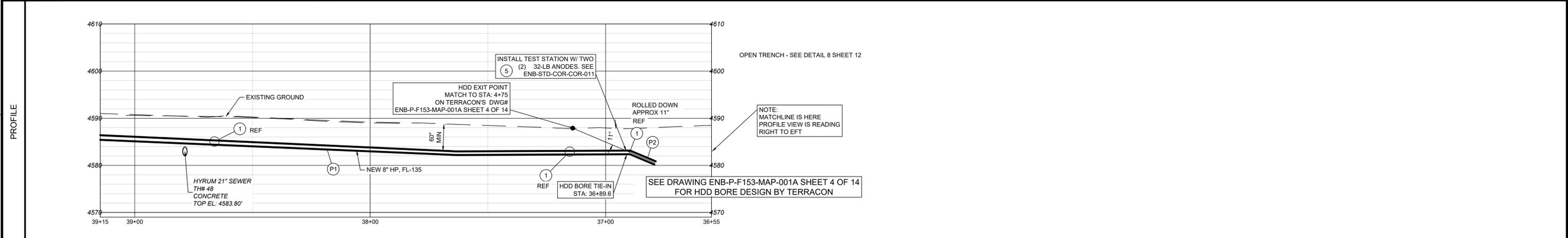
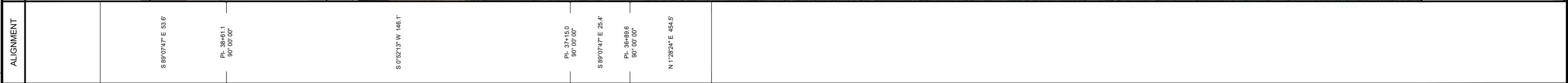
DESCRIPTION: ALIGNMENT PLAN AND PROFILE

ADDRESS: 300 N AND 400 W TO 4650 S AND 1200 W

SECTION: 5, 32	T 10, 11 N	R 1 E
CITY: HYRUM	COUNTY: CACHE	STATE: UTAH
DRAWING NUMBER: ENB-P-F153-MAP-001		
SHEET: 9 OF 12	REVISION: 0	



ISSUED FOR CONSTRUCTION



PROJECT CONTROLS	INSTALL METHOD:	OPEN TRENCH - SEE DETAIL 8 SHEET 12	HDD BORE - SEE TERRACON DRAWING ENB-P-F153-MAP-001A SHEET 4 OF 14 FOR BORE DESIGN
	RECLAMATION:	N/A	
	EROSION CONTROL:	N/A	
	ENVIRONMENTAL:	N/A	
OWNER	AC MITIGATION:	N/A	
		HYRUM	

PIPE DATA	PIPE DETAILS:	8" HP .322" WT X52 FBE	8" HP .322" WT X52 ARO
	DESIGN CLASS LOC. / MAOP (OPERATING):	CLASS 3 / 471 MAOP	
	MINIMUM COVER:	60" MINIMUM COVER	VARIES

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS				ENGINEERING RECORD					
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY:	DATE	BY	CHECK
ENB-G-HYRNG-PIP-001	0	HYRUM RNG GATE STATION & INDUSTRIAL MTR SET IN0656	100988.86	INSTALL 3800 LF OF 8" FL-153 PIPELINE	0	ISSUE FOR CONSTRUCTION	10/16/2025	JAJ	ERB	J. JOHNSON			
ENB-P-F153-MAP-001A	0	SEE TERRACON DRAWING FOR BORE DESIGN	101233.54	INSTALL 3" SERVICE LINE TO IN0657						A. ASPLUND			
ENB-P-F153-MAP-001B	0	SEE TERRACON DRAWING FOR BORE DESIGN								E. CLEMENCE			
ENB-P-F153-PIP-001	0	8x3 BURIED VALVE ASSEMBLY								W. RADFORD			
ENB-STD-COR-COR-011	5	TEST STATION WITH GALVANIC ANODES								D. FRANCIS			

LINE NUMBER: FL-153

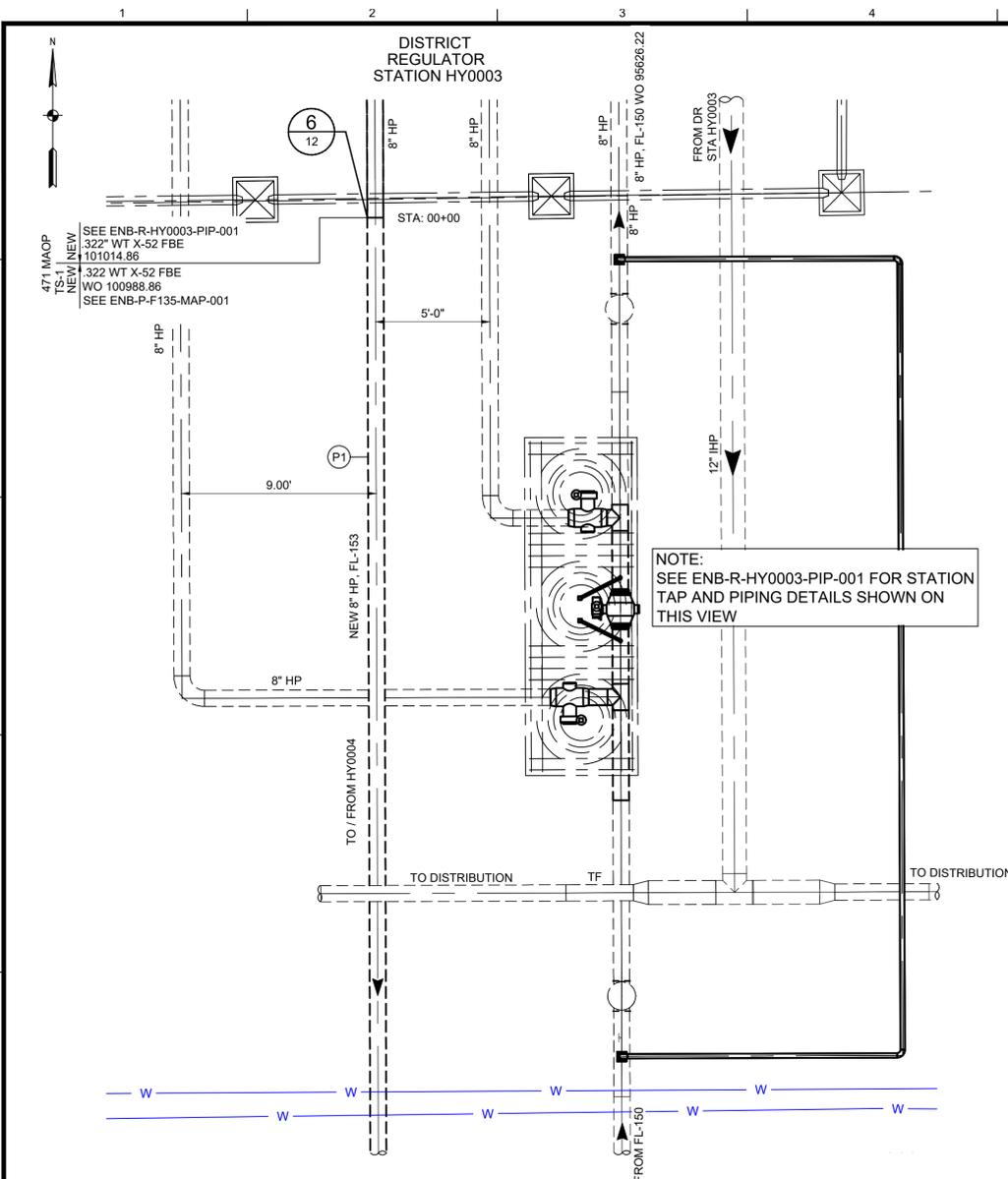
FACILITY: FEEDERLINE TO HY0004 RNG GATE STATION

TITLE: INSTALL APPROX 3800 FEET OF 8" HP PIPE

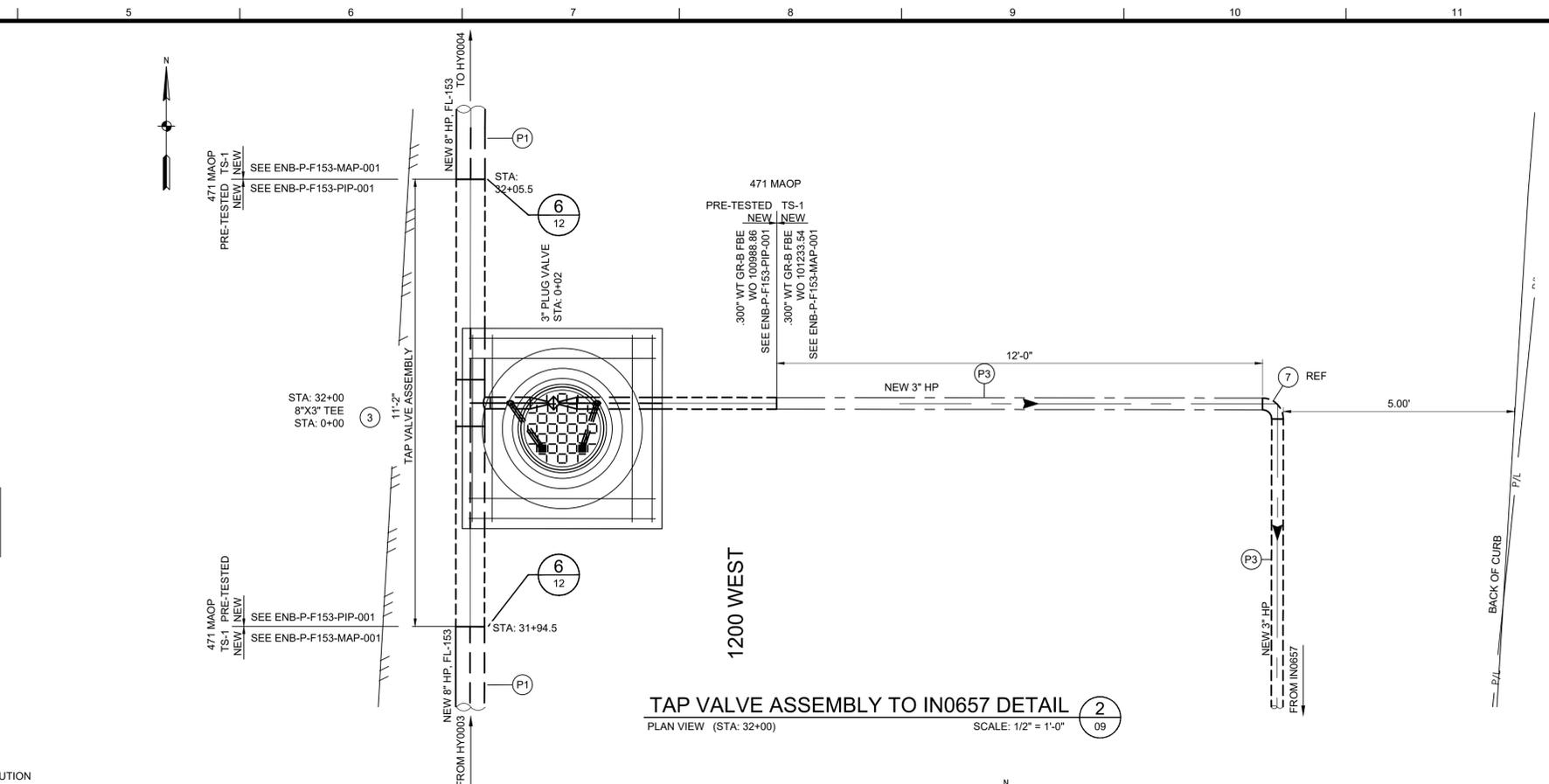
DESCRIPTION: ALIGNMENT PLAN AND PROFILE

ADDRESS: 300 N AND 400 W TO 4650 S AND 1200 W

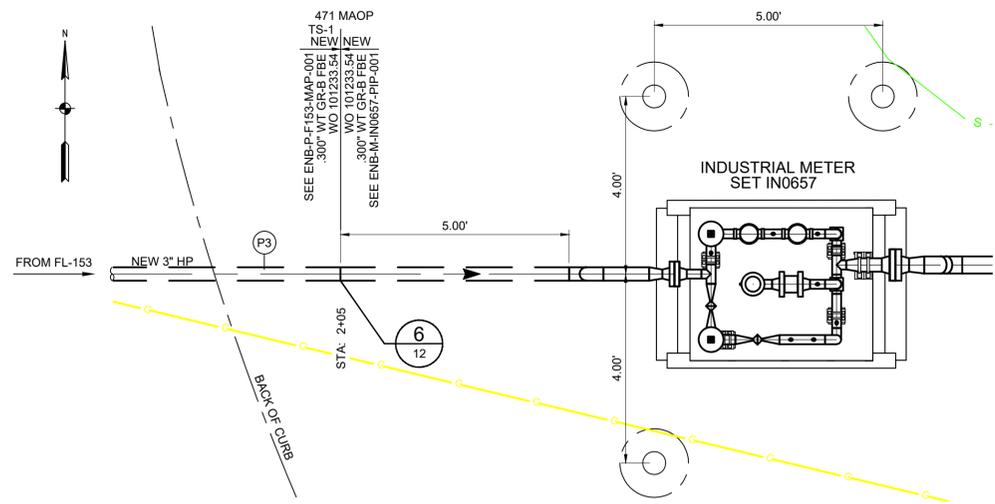
SECTION: 5.32	T10, 11 N	R1 E
CITY: HYRUM	COUNTY: CACHE	STATE: UTAH
DRAWING NUMBER: ENB-P-F153-MAP-001		
SHEET: 10 OF 12		REVISION: 0



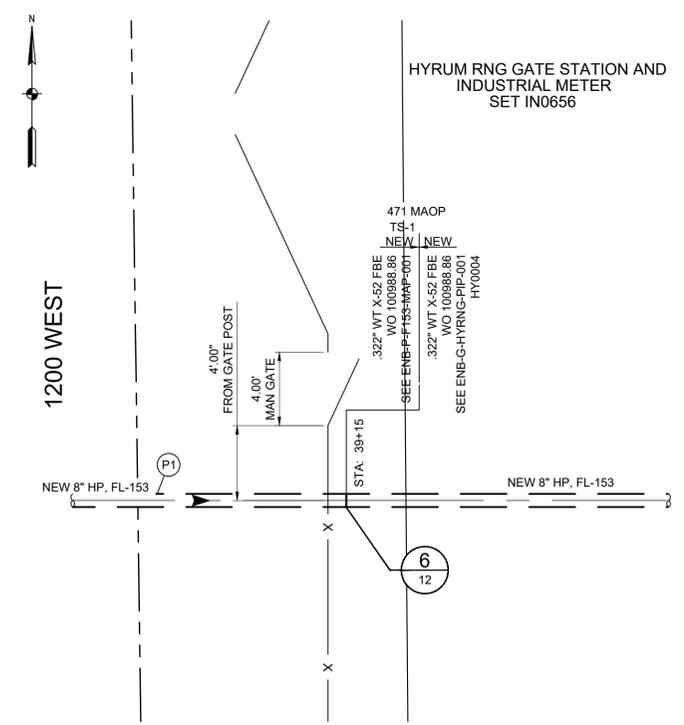
WEST TIE-IN DETAIL HY0003
 STA: 0+00 SCALE: 1" = 4' 1 03



TAP VALVE ASSEMBLY TO IN0657 DETAIL
 PLAN VIEW (STA: 32+00) SCALE: 1/2" = 1'-0" 2 09



TIE IN DETAIL TO IN0657 DETAIL
 PLAN VIEW (STA: 2+05) SCALE: 1/2" = 1'-0" 3 08



NORTH TIE-IN DETAIL
 PLAN STA: 38+93 SCALE: 1" = 5' 4 09

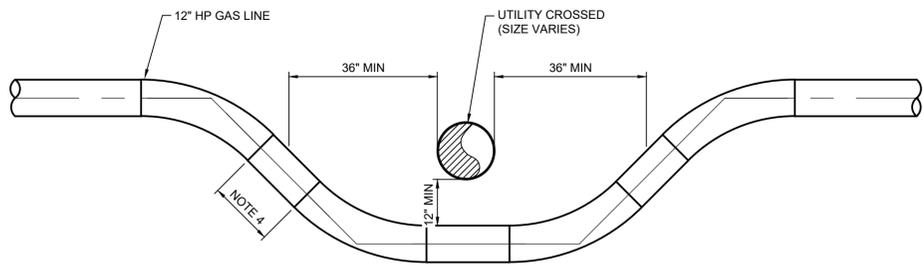
ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS				ENGINEERING RECORD	
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK
ENB-G-HYRNG-PIP-001	0	HYRUM RNG GATE STATION & INDUSTRIAL MTR SET IN0656	100988.86	INSTALL 3800 LF OF 8" FL-153 PIPELINE	0	ISSUE FOR CONSTRUCTION	10/16/2025	JAJ	ERB
ENB-M-IN0657-PIP-001	0	INDUSTRIAL METER SET IN0657	101233.54	INSTALL 3" SERVICE LINE TO IN0657					
ENB-P-F153-MAP-001B	0	SEE TERRACON DRAWING FOR BORE DESIGN							
ENB-G-HYRNG-CCS-001	0	SITE AND GRADING PLAN							

LINE NUMBER: FL-153
 FACILITY: FEEDERLINE TO HY0004 RNG GATE STATION
 TITLE: INSTALL APPROX 3800 FEET OF 8" HP PIPE
 DESCRIPTION: DETAILS
 ADDRESS: 300 N AND 400 W TO 4650 S AND 1200 W

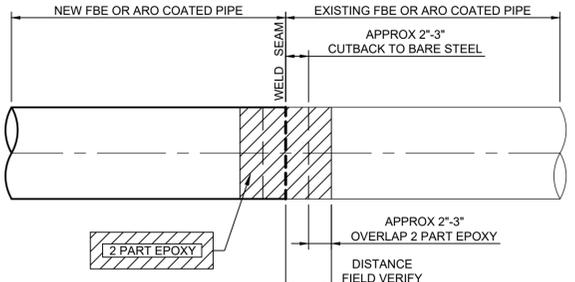
SECTION: 5, 32 T 10, 11 N R 1 E	CITY: HYRUM	COUNTY: CACHE	STATE: UTAH
ELEVATION:	DRAWING NUMBER: ENB-P-F153-MAP-001		
LAT: 41.646324 LONG: -111.860670	SHEET: 11 OF 12		REVISION: 0
SCALE: AS SHOWN			

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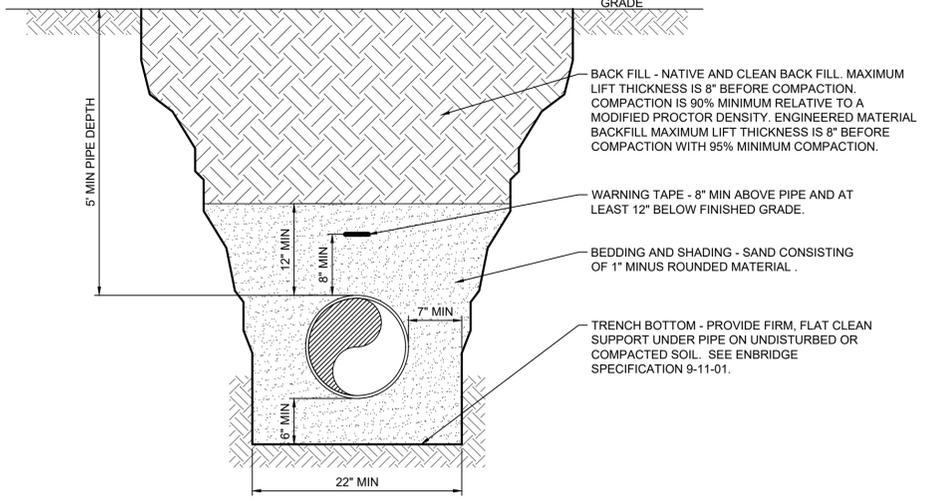
- UTILITY CROSSING NOTES:**
1. FIELD ENGINEER TO DETERMINE CROSSING METHOD DURING EXCAVATION.
 2. PIPE CROSSING ACHIEVED VIA ELBOWS, PIPE BENDING OR SAGGING THE PIPELINE.
 3. IN ALL INSTANCES, MINIMUM DIMENSIONS SHOWN SHALL GOVERN.
 4. 3 PIPE DIAMETER MINIMUM PIPE LENGTH BETWEEN FITTINGS WHEREVER POSSIBLE, OTHERWISE FOLLOW SP 1-01-02.

TYPICAL UTILITY LOOP CROSSING DETAIL (5)
SCALE: NONE

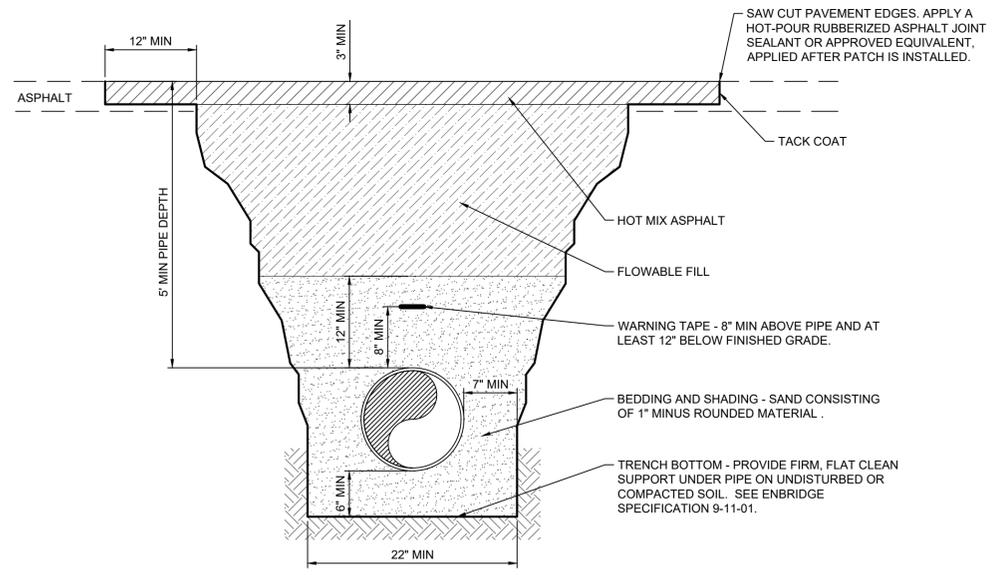


NOTE: WHEN ARO COATED PIPE IS USED, THE 2 PART EPOXY COATING THICKNESS DURING SINGLE APPLICATION SHALL NOT EXCEED 40 MILS. BUILD UP TO MAX 70 MILS, WITH TARGET OF 60 MILS.

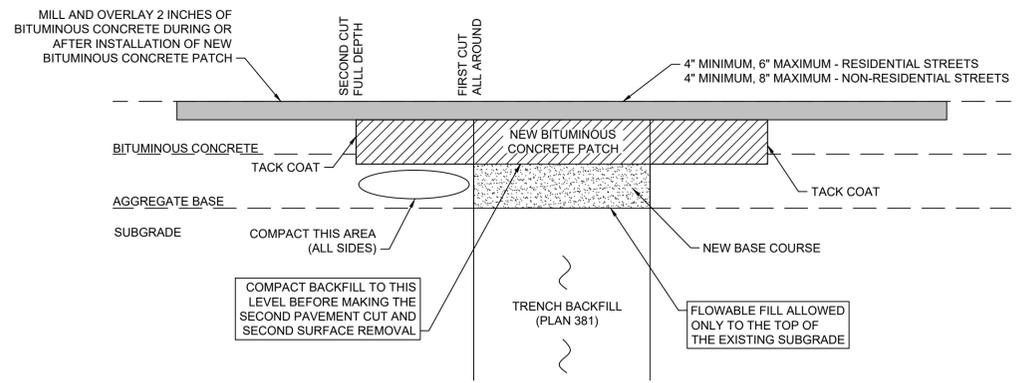
COATING DETAIL (6)
FBE OR ARO COATED PIPE WITH WELD OFFGAS DWELL TIME (SEE SP 2-13-10 FOR BORE APPLICATIONS)
SCALE: NONE



GRANULAR BACK FILL TYPICAL TRENCH DETAIL (7)
SCALE: NONE



ASPHALT T-PATCH TYPICAL TRENCH DETAIL (8)
SCALE: NONE



BITUMINOUS CONCRETE RESTORATION (9)
SCALE: NONE

ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS			ENGINEERING RECORD		
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DATE	BY	CHECK	DRAWN BY: J. JOHNSON
ENB-G-HYRNG-PIP-001	0	HYRUM RNG GATE STATION & INDUSTRIAL MTR SET IN0656	100988.86	INSTALL 3800 LF OF 8" FL-153 PIPELINE	0	10/16/2025	JAJ	ERB	CHECKED BY: E. BUSH
ENB-P-F153-MAP-001A	0	SEE TERRACON DRAWING FOR BORE DESIGN							PROJECT ENGR: A. ASPLUND
ENB-P-F153-MAP-001B	0	SEE TERRACON DRAWING FOR BORE DESIGN							SURVEYOR: E. CLEMENCE
									ENGR MNGR: W. RADFORD
									CONSTR MNGR: D FRANCIS
									MEAS & CTRLS:
									AUTOM ENGR:

ENBRIDGE

SECTION: 5, 32 T10, 11 N R1 E
ELEVATION:
LAT: 41.646324 LONG: -111.860670
SCALE: AS SHOWN

LINE NUMBER: FL-153
FACILITY: FEEDERLINE TO HY0004 RNG GATE STATION
TITLE: INSTALL APPROX 3800 FEET OF 8" HP PIPE
DESCRIPTION: DETAILS
ADDRESS: 300 N AND 400 W TO 4650 S AND 1200 W

CITY: HYRUM COUNTY: CACHE STATE: UTAH

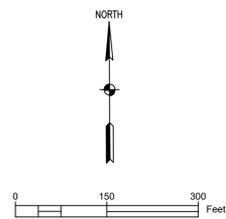
DRAWING NUMBER: ENB-P-F153-MAP-001 SHEET: 12 OF 12 REVISION: 0

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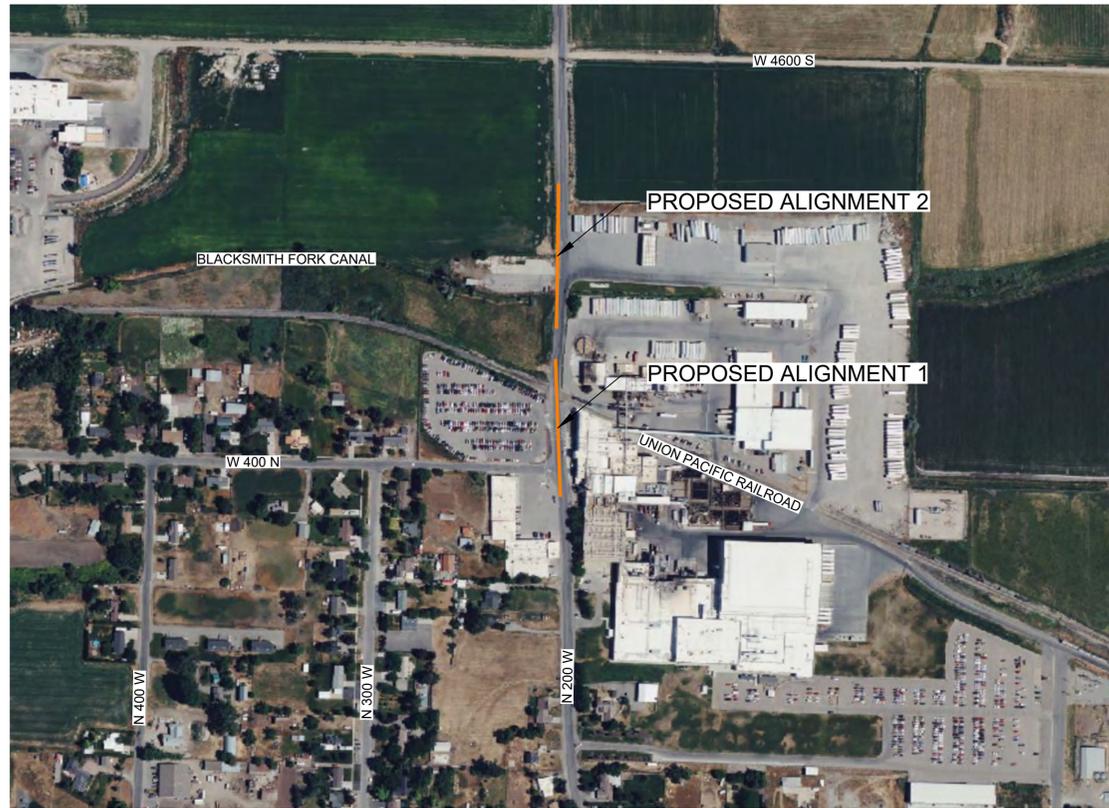
HYRUM 200 WEST UPRR / BLACKSMITH FORK CANAL FL-153 8" STEEL HDD CROSSING

CACHE COUNTY, UTAH

SHEET INDEX	
1	COVER SHEET AND VICINITY MAP
2	CONSTRUCTION NOTES
3	HDD PLAN AND PROFILE ALIGNMENT 1
4	HDD PLAN AND PROFILE ALIGNMENT 2
5	HDD GEOTECHNICAL PLAN & PROFILE ALIGNMENT 1
6	HDD GEOTECHNICAL PLAN & PROFILE ALIGNMENT 2
7	HDD PIPE STRESS & IR ANALYSIS ALIGNMENT 1
8	HDD PIPE STRESS & IR ANALYSIS ALIGNMENT 2
9	HDD PULL BACK CALCULATIONS ALIGNMENT 1
10	HDD PULL BACK CALCULATIONS ALIGNMENT 2
11	KEY TO BORE LOGS
12	BORE LOGS
13	BORE LOGS
14	BORE LOGS



APPROXIMATE CROSSINGS LOCATIONS: ALIGNMENT 1 3758552.5304 N
1541769.3983 E / 3759002.2634 N 1541753.8970 E ALIGNMENT 2 3759102.9949 N
1541756.9847 E / 3759577.9390 N 1541764.2742 E



8" STEEL PIPE HDD

LINE AND SYMBOL LEGEND

NOTE: MAY CONTAIN LINES AND SYMBOLS THAT ARE NOT USED IN THIS PLAN SET.

	GAS	PROPOSED HIGH PRESSURE (HP) GAS LINE		ANODE
		EXISTING HP GAS LINE		CATHODIC PROTECTION TEST STATION
		RETIRE/REMOVE HP GAS LINE		GAS MANHOLE
		EXISTING IHP GAS SERVICE LINE		VALVE
		EXISTING IHP GAS LINE		PRESSURE FITTING
		PRIVATE / MISC. EASEMENT		DEAD END
	DE R/W	DOMINION ENERGY GAS RIGHT-OF-WAY LINE		R/W MONUMENT / C/4 MONUMENT
	PUE	PUBLIC UTILITY EASEMENT		PROPERTY PIN or P/I
	R/W	RIGHT-OF-WAY - ROAD		REBAR AND CAP
		RIGHT-OF-WAY - HIGHWAY		POINT-OF-BEGINNING
		PLSS SECTION LINE		EXISTING MONUMENT
		SURVEY LINE		STATION EQUATION
		ROAD CENTERLINE		SECTION CORNER, 1/4 CORNER MONUMENT
		CURB AND GUTTER		CONIFEROUS TREE
		EDGE OF ROAD / ASPHALT		DECIDUOUS TREE
		RIVER / CANAL		BUSH / SHRUB
		EXISTING RAILROAD TRACKS		LANDSCAPE BOULDERS
		PROPERTY LINE / LOT LINE		SIGNAL POLE
		PRECAST WALL		LIGHTPOLE
		BARBED WIRE FENCE LINE		SIGN
		DRAINAGE FLOW LINE		BILLBOARD
		EXISTING CABLE TV LINE		CABLE TV PEDESTAL
		EXISTING BURIED COMM LINE		FIBER OPTIC PEDESTAL
		EXISTING OVERHEAD COMM LINE		POWER PEDESTAL
		EXISTING FIBER OPTIC LINE		SIGNAL PEDESTAL
		EXISTING IRRIGATION LINE		TELEPHONE PEDESTAL / JUNCTION BOX
		EXISTING BURIED POWER LINE		MISC POLE
		EXISTING OVERHEAD POWER LINE		GUY WIRE
		EXISTING SANITARY SEWER LINE		CABLE TV MANHOLE
		EXISTING STORM DRAIN LINE		FIBER OPTIC MANHOLE
		EXISTING DOMESTIC WATER LINE		IRRIGATION MANHOLE
		MATCHLINE		MISC. MANHOLE
		EXISTING CONTOURS		POWER MANHOLE
		PROPOSED CONTOURS		SEWER MANHOLE
		STRUCTURAL FILL		SIGNAL MANHOLE
		GRAVEL		STORMDRAIN MANHOLE
		CONCRETE		TELEPHONE MANHOLE
		RIP RAP		WATER MANHOLE
		FLOW FILL		WATER METER CURB BOX
		BORE		FIRE HYDRANT
		HDD ALIGNMENT		STORM DRAIN CATCH BASIN
				STORM DRAIN VAULT

ABBREVIATIONS

NOTE: MAY CONTAIN ABBREVIATIONS THAT ARE NOT USED IN THIS PLAN SET.
SOURCE: ASME Y14.38-2007

APWA	AMERICAN PUBLIC WORKS ASSOCIATION	NO / #	NUMBER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	OC	ON CENTER
BOC	BACK OF CURB	OCEW	ON CENTER EACH WAY
BOW	BACK OF WALK	OHP	OVERHEAD POWER
BV	BLOCK VALVE	PC	POINT OF CURVATURE OR PRESSURE CLASS
BVC	BEGIN VERTICAL CURVE	PCC	POINT OF COMPOUND CURVATURE
C	CURVE	PI	POINT OF INTERSECTION
CB	CATCH BASIN	PIV	POST INDICATOR VALVE
CL	CENTER LINE	P/L	PROPERTY LINE
COMM	COMMUNICATION	PRC	POINT OF REVERSE CURVATURE
CONC	CONCRETE	PRO	PROPOSED
CONT	CONTINUOUS	PT	POINT OF TANGENCY
DIA	DIAMETER	PVC	POINT OF VERTICAL CURVATURE
EG	EXISTING GRADE	PVI	POINT OF VERTICAL INTERSECTION
ELEC	ELECTRICAL	PVT	POINT OF VERTICAL TANGENCY
ELEV / EL	ELEVATION	R	RADIUS
EOA	EDGE OF ASPHALT	ROW / R/W	RIGHT OF WAY
EVC	END OF VERTICAL CURVE	S	SLOPE
EW	EACH WAY	SD	STORM DRAIN
EXIST	EXISTING	SS	SANITARY SEWER
FF	FINISH FLOOR	STA	STATION
FG	FINISH GRADE	SW	SIDEWALK
FL	FLOW LINE OR FLANGE	TOG	TOP OF GRATE
GB	GRADE BREAK	TOA	TOP OF ASPHALT
HP	HIGH POINT	TOC	TOP OF CONCRETE
IRR	IRRIGATION	TOE	TOE OF SLOPE
LF	LINEAR FEET	TOF	TOP OF FOUNDATION
LOC	LIP OF CURB	TOW	TOP OF WALL
LP	LOW POINT	TOS	TOP OF STEP
MH	MANHOLE	TYP	TYPICAL
NG	NATURAL GROUND	VC	VERTICAL CURVE
NIC	NOT IN CONTRACT		



CALL THREE BUSINESS DAYS BEFORE YOU DIG TO HAVE UTILITIES LOCATED 811 or 1-800-662-4111

PREPARED BY:



ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS			ENGINEERING RECORD		
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DATE	BY	CHECK	DRAWN BY:
ENB-P-FL153-MAP-001	0	8" HP TAPLINE FROM HY0003	100988.86	FL-153: INSTALL 450 LF & 475 LF OF 8" STEEL PIPE VIA HDD TRENCHLESS METHODS	0	10/16/2025	RFR	JWD/DD	TERRACON (RR)
									CHECKED BY: TERRACON (JD)
									PROJECT ENGR: ANDREW ASPULND
									SURVEYOR: ENSIGN
									ENGR MNGR: WILL RADFORD
									CONSTR MNGR: NA

			LINE NUMBER: FL-153 FACILITY: INSTALL 450 LF & 475 LF OF 8" STEEL PIPE TITLE: HDD TRENCHLESS CROSSING DESCRIPTION: COVER AND VICINITY MAP ADDRESS: 200 WEST NEAR 570 NORTH
SECTION: 32	T 11N	R 1E	CITY: HYRUM
ELEVATION: 4610.8 AT ENTRY			COUNTY: CACHE
LAT: _____	LONG: _____		STATE: UTAH
SCALE: 1"=300'-0" H 1"=300'-0" V			DRAWING NUMBER: ENB-P-FL153-MAP-001A
			SHEET: 1 OF 14
			REVISION: 0

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CONSTRUCTION NOTES

1. THE REQUIREMENT OF AN HDD INSTALLATION ARE MORE FULLY DESCRIBED IN OWNER STANDARD PRACTICE 2-15-01. ALL HDD CONSTRUCTION OPERATIONS SHALL BE IN ACCORDANCE WITH STANDARD PRACTICE 2-15-01. THE STANDARD PRACTICE WILL SUPERSEDE THESE NOTES, IF DISCREPANCIES EXIST.
2. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES WITHIN THE CONSTRUCTION AREA. CONTRACTOR SHOULD PERFORM CONTINUOUS MONITORING FOR ANY SIGN OF DRILLING FLUIDS DURING HDD DRILLING AND PULLBACK OPERATIONS.
3. CONTRACTOR SHALL CALL BLUESTAKES UTILITY LOCATION SERVICE PRIOR TO CONSTRUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR ALL LOSSES AND REPAIRS OCCASIONED BY DAMAGE TO UNDERGROUND FACILITIES/UTILITIES RESULTING FROM THEIR WORK.
5. CONTRACTOR SHALL AT ALL TIMES PROVIDE AND MAINTAIN INSTRUMENTATION WHICH WILL ACCURATELY LOCATE THE PILOT HOLE, MEASURE DRILL STRING AXIAL AND TORSIONAL LOADS, AND MEASURE DRILLING FLUID DISCHARGE RATE AND PRESSURE. THE OWNER AND/OR THEIR SITE REPRESENTATIVE SHALL HAVE ACCESS TO SAID INSTRUMENTATION AND THEIR READINGS AT ALL TIMES. A LOG OF ALL RECORDED READINGS SHALL BE MAINTAINED AND WILL BECOME PART OF THE "AS-BUILT" INFORMATION DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER.
6. THE PILOT HOLE SHALL BE DRILLED ALONG THE PATH SHOWN ON THE DRAWINGS WITHIN THE FOLLOWING TOLERANCES:
 - a. HORIZONTAL: +/- 5 FEET FROM DESIGN CENTERLINE
 - b. VERTICAL: + 2 FEET TO -10 FEET FROM DESIGN PROFILE (THE HDD DRILL PATH MAY BE UP TO 10 FEET LOWER THAN THAT WHICH IS DEPICTED AND UP TO 2 FEET HIGHER THAN THAT WHICH IS DEPICTED). ADDITIONALLY, CONCERN FOR ADJACENT UTILITIES AND/OR STRUCTURES SHALL TAKE PRECEDENCE OVER THE LISTED TOLERANCES. LISTING OF TOLERANCES DOES NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR SAFE OPERATIONS OR DAMAGE TO ADJACENT UTILITIES AND STRUCTURES.
7. CURVES SHOULD BE DRILLED AT A RADIUS EQUAL TO OR GREATER THAN THAT LISTED ON THE DRAWINGS. HOWEVER, IN THE EVENT THAT A STEERING CORRECTION IS NEEDED AND A TIGHTER RADIUS MUST BE CONSTRUCTED TO STAY WITHIN ALIGNMENT TOLERANCES, THE MINIMUM THREE JOINT RADIUS SHALL BE 600 FEET. THE DRILLED RADIUS WILL BE CALCULATED OVER ANY THREE OR MORE JOINT SEGMENTS USING THE FOLLOWING FORMULA:
 - a. $R = L / A * 57.296$
 - WHERE:
 R = DRILLED RADIUS OVER LENGTH (L)
 L = LENGTH DRILLED, NO LESS THAN 75 FEET AND NO GREATER THAN 100 FEET
 A = TOTAL CHANGE IN ANGLE OVER LENGTH (L)
8. AT THE COMPLETION OF THE PILOT HOLE DRILLING, THE CONTRACTOR SHALL PROVIDE A TABULATION OF COORDINATES, REFERENCED TO THE DRILLED ENTRY POINT, WHICH ACCURATELY DESCRIBES THE LOCATION OF THE PILOT HOLE. THIS TABULATION SHALL BE IN ADDITION TO THE LOG OF RECORDED READINGS REQUIRED IN ACCORDANCE WITH NOTE 5.
9. THE MAXIMUM ALLOWABLE TENSILE LOAD IMPOSED ON THE PULL SECTION SHALL BE EQUAL TO 90% OF THE PRODUCT OF THE SPECIFIED MINIMUM YIELD STRENGTH OF THE PIPE AND THE AREA OF THE PIPE SECTION. IF MORE THAN ONE VALUE IS INVOLVED FOR A GIVEN PULL SECTION, THE LESSER SHALL GOVERN.
10. A SWIVEL SHALL BE USED TO CONNECT THE PULL SECTION TO THE REAMING ASSEMBLY TO MINIMIZE TORSIONAL STRESS IMPOSED ON THE SECTION.
11. THE PULL SECTION SHALL BE SUPPORTED AS IT PROCEEDS DURING PULLBACK SO THAT IT MOVES FREELY AND THE PIPE AND COATING ARE NOT DAMAGED.
12. THE PULL SECTION SHALL BE INSTALLED IN THE REAMED HOLE IN SUCH A MANNER THAT EXTERNAL STRESSES ARE MINIMIZED. THE PULL SECTION MAY BE BALLASTED INTERNALLY WITH WATER TO HELP REDUCE PULLING STRESSES. ANY DAMAGE TO THE PIPE RESULTING FROM EXTERNAL PRESSURE OR EXCESSIVE STRESS DURING INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
13. BUOYANCY MODIFICATION SHALL BE USED AT THE DISCRETION OF THE CONTRACTOR. ANY BUOYANCY MODIFICATION PROCEDURE PROPOSED FOR USE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO USE. NO PROCEDURE SHALL BE USED WHICH HAS NOT BEEN APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PULL SECTION RESULTING FROM BUOYANCY MODIFICATION.
14. IF THE PULL SECTION IS CORROSION COATED, IT SHALL BE INSPECTED FOR HOLIDAYS WITH A HOLIDAY DETECTOR AS IT ENTERS THE HOLE. ANY COATING DAMAGE FOUND SHALL BE REPAIRED.
15. THE COMPOSITION OF ALL DRILLING FLUIDS PROPOSED FOR USE SHALL BE SUBMITTED TO THE OWNER FOR REVIEW AND APPROVAL. NO FLUID WILL BE APPROVED OR UTILIZED THAT DOES NOT COMPLY WITH PERMIT REQUIREMENTS AND ENVIRONMENTAL REGULATIONS.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, TRANSPORTING, AND STORING ANY WATER REQUIRED FOR DRILLING FLUIDS.
17. CONTRACTOR SHALL MAXIMIZE RECIRCULATION OF DRILLING FLUID SURFACE RETURNS. CONTRACTOR SHALL PROVIDE SOLIDS CONTROL AND FLUID CLEANING EQUIPMENT OF A CONFIGURATION AND CAPACITY THAT CAN PROCESS SURFACE RETURNS AND PRODUCE DRILLING FLUID WITH APPROPRIATE PROPERTIES AND FOR REMOVAL OF EXCESS CUTTINGS FROM THE FLUID.
18. DISPOSAL OF EXCESS DRILLING FLUIDS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONDUCTED IN COMPLIANCE WITH OWNER POLICIES AND PROCEDURES, ALL ENVIRONMENTAL REGULATIONS, RIGHT-OF-WAY AND WORKSPACE AGREEMENTS, AND PERMIT REQUIREMENTS. DRILLING FLUID DISPOSAL PROCEDURES PROPOSED FOR USE SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL TWO WEEKS PRIOR TO CONSTRUCTION.
19. CONTRACTOR SHALL EMPLOY HIS BEST EFFORTS TO MAINTAIN FULL ANNULAR CIRCULATION OF DRILLING FLUIDS. DRILLING FLUID RETURNS AT LOCATIONS OTHER THAN THE ENTRY AND EXIT POINTS SHALL BE MINIMIZED. IN THE EVENT THAT ANNULAR CIRCULATION IS LOST, THE CONTRACTOR SHALL TAKE IMMEDIATE STEPS TO RESTORE CIRCULATION. IF INADVERTENT SURFACE RETURNS OF DRILLING FLUIDS OCCUR, THEY SHALL BE IMMEDIATELY CONTAINED, COLLECTED, AND REMOVED/DISPOSED IN ACCORDANCE WITH OWNER POLICIES AND I.R. CONTINGENCY PLAN.
20. THE CONTRACTOR SHALL SUBMIT TO THE OWNER A LIST OF ON SITE CONTAINMENT EQUIPMENT AND SDS SHEETS FOR ALL DRILLING FLUID ADDITIVES TO BE INCLUDED IN THE IR PLAN FOUR WEEKS PRIOR TO CONSTRUCTION. THE PLAN SHALL ADDRESS, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS:
 - a. IDENTIFICATION OF AREAS REQUIRING PROTECTION (STREAMS, WETLANDS, PONDS, RESTRICTED PROPERTY, ETC.);
 - b. DESCRIPTION OF THE METHOD(S) THAT WILL BE USED TO LOCATE INADVERTENT RETURNS WHEN THEY OCCUR;
 - c. DESCRIPTION OF THE METHOD(S) THAT WILL BE USED TO CONTAIN, COLLECT, AND REMOVE/DISPOSE OF THE INADVERTENT RETURNS;
 - d. METHOD TO RESTORE AREAS ONTO WHICH INADVERTENT RETURNS WERE CONTAINED.
21. IF THE AMOUNT OF INADVERTENT RETURNS EXCEEDS THE CAPACITY OF THE CONTAINMENT, DRILLING OPERATIONS SHALL BE SUSPENDED UNTIL THE VOLUME OF INADVERTENT RETURNS CAN BE MANAGED WITHOUT EXCEEDING THE CAPACITY OF THE CONTAINMENT.
22. THE HDD CONSTRUCTION SHOULD BE OBSERVED ON A FULL-TIME BASIS BY A REPRESENTATIVE OF THE ENGINEER.

SITE CONDITIONS (GEOLOGY NOTES AND SUBSURFACE SOILS)

THE PROPOSED CROSSING IS LOCATED NEAR THE EASTERN MARGIN OF THE BASIN AND RANGE PHYSIOGRAPHIC PROVINCE. THIS PROVINCE IS CHARACTERIZED BY NORTH-SOUTH TRENDING MOUNTAIN RANGES SEPARATED FROM ADJACENT BROAD VALLEYS BY NORMAL FAULTS. GEOLOGIC FORMATIONS IN THE MOUNTAINS CONSIST PREDOMINANTLY OF PALEOZOIC LIMESTONE, QUARTZITE, SANDSTONE AND MORE RECENT INTRUSIVE VOLCANIC ROCK. REGIONAL UPLIFT ALONG THE NORMAL FAULTS HAS RESULTED IN FRACTURING AND JOINTING OF THE BEDROCK. BASED ON PUBLISHED GEOLOGIC MAPPING BY MCKEAN & HYLLEND (2019) SURFACE SOILS AT THE PROPOSED CROSSING LOCATION CONSIST OF STREAM DEPOSITS THAT CONSISTS PRIMARILY OF SAND, SILT, AND CLAY IN ABANDONED STREAM CHANNELS AND FLOOD PLAINS AND IN DELTA AND LACUSTRINE DEPOSITS. SUBSURFACE CONDITIONS ENCOUNTERED IN THE BORING CONSIST OF PREDOMINANTLY SANDY SOILS INTERBEDDED WITH CLAY.

THE MAJOR SOIL GROUPS ENCOUNTERED DURING THE FIELD EVALUATION ARE DESCRIBED HERE IN THE GENERAL ORDER OF THEIR OCCURRENCE. MORE DETAILED DESCRIPTIONS OF THE SOILS ENCOUNTERED IN THE BORINGS, INCLUDING FIELD GEO-MECHANICAL DATA, SUCH AS DRIVEN SAMPLER BLOW COUNTS, ARE PRESENTED ON THE BORING LOGS (SHEETS 12-14). GEOTECHNICAL PLAN AND PROFILE SHEETS SHOWING THE BORINGS PERFORMED FOR EACH CROSSING WITH RESPECT TO THE EXISTING GROUND (TOPOGRAPHIC SURVEY) AND THE PROPOSED DRILL PATH IS PROVIDED ON SHEETS 5 - 6.

REFERENCES

EVANS, JAMES P., MCCALPIN, JAMES P. AND HOLMES, DAVID C., 1996. GEOLOGIC MAP OF THE LOGAN 7.5' QUADRANGLE CACHE COUNTY, UTAH. UTAH DEPARTMENT OF NATURAL RESOURCES, UTAH GEOLOGICAL SURVEY MISC. PUBLICATION 96-1

LIMITATIONS

1. THE HDD DESIGNS PRESENTED ON THESE DRAWINGS SHALL BE REVIEWED BY THE OWNER AND HDD CONTRACTOR PRIOR TO CONSTRUCTION. SHOULD THE CONTRACTOR DEVIATE FROM THE DESIGN DEPICTED IN THIS DRAWING SET IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY ADDITIONAL INFORMATION (INCLUDING, BUT NOT LIMITED TO, GEOTECHNICAL DATA) THAT IS NECESSARY AND TO PERFORM ADDITIONAL ANALYSIS AS REQUIRED TO ACCOMMODATE THEIR REVISED PLAN.
2. THIS WORK WAS PERFORMED IN A MANNER CONSISTENT WITH THAT LEVEL OF CARE AND SKILL ORDINARILY EXERCISED BY OTHER MEMBERS OF TERRACON'S PROFESSION PRACTICING IN THE SAME LOCALITY, UNDER SIMILAR CONDITIONS AND AT THE DATE THE SERVICES ARE PROVIDED. TERRACON MAKES NO OTHER REPRESENTATION, GUARANTEE OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE SERVICES, COMMUNICATION (ORAL OR WRITTEN), PLANS, OPINION, OR INSTRUMENT OF SERVICE PROVIDED.
3. DESCRIPTIONS CONTAINED IN THESE PLANS ARE BASED ON OUR FIELD OBSERVATIONS AND SUBSURFACE EXPLORATIONS, LIMITED LABORATORY TESTS, AND OUR PRESENT KNOWLEDGE OF THE PROPOSED CONSTRUCTION. IT IS POSSIBLE THAT SOIL OR GROUNDWATER CONDITIONS COULD VARY BETWEEN OR BEYOND THE POINTS EXPLORED. THE DESCRIPTIONS PRESENTED IN THESE PLANS ARE FOR THE EXCLUSIVE USE OF THE CLIENT AND THEIR DESIGNATED CONTRACTORS AND ARE ONLY APPLICABLE TO THE SPECIFIC SITE REFERENCED. THE DESCRIPTIONS ARE NOT TO BE EXTRAPOLATED TO OTHER PROJECTS.
4. THE SUBSURFACE CONDITIONS DESCRIBED IN THIS DRAWING SET ARE ONLY APPLICABLE TO THE POINTS OF EXPLORATION.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SELECT THE CONSTRUCTION MEANS AND METHODS (I.E., TYPE OF DRILLING FLUID, PUMPING RATE FOR FLUID, TOOLING SELECTION, RATE OF ADVANCEMENT, DRILLING FLUID CONTAINMENT, INADVERTENT FLUID RELEASE CONTINGENCY PLANNING, ETC.).

PAD NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR THEIR MEANS AND METHODS AND TO ANCHOR THEIR EQUIPMENT DURING CONSTRUCTION.
2. EROSION AND SEDIMENT CONTROL IS NOT DEPICTED ON THESE DRAWINGS. THE HDD CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING EROSION AND SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
3. GRADING DESIGN IS BY OTHERS.
4. TEMPORARY EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.
5. THE CONTRACTOR SHALL RESTORE THE SITE GRADING AND VEGETATION TO ITS FORMER CONDITION AT THE COMPLETION OF WORK.



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ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS				ENGINEERING RECORD	
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	DATE	BY	CHECK	DRAWN BY:	TERRACON (RR)
ENB-P-FL153-MAP-001	0	8" HP TAPLINE FROM HY0003	100988.86	FL-153: INSTALL 450 LF & 475 LF OF 8" STEEL PIPE VIA HDD TRENCHLESS METHODS	10/16/2025	RFR	JWD/DD	CHECKED BY:	TERRACON (JD)
								PROJECT ENGR:	ANDREW ASPULND
								SURVEYOR:	ENISGN
								ENGR MNGR:	WILL RADFORD
								CONSTR MNGR:	NA
								SECTION:	32 T 11N R 1E
								ELEVATION:	4610.8 AT ENTRY
								LAT:	LONG:
								SCALE:	NA

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LINE NUMBER:	FL-153				
FACILITY:	INSTALL 450 LF & 475 LF OF 8" STEEL PIPE				
TITLE:	HDD TRENCHLESS CROSSING				
DESCRIPTION:	CONSTRUCTION NOTES				
ADDRESS:	200 WEST NEAR 570 NORTH				
CITY	HYRUM	COUNTY	CACHE	STATE	UTAH
DRAWING NUMBER		SHEET		REVISION	
ENB-P-FL153-MAP-001A		2 OF 14		0	

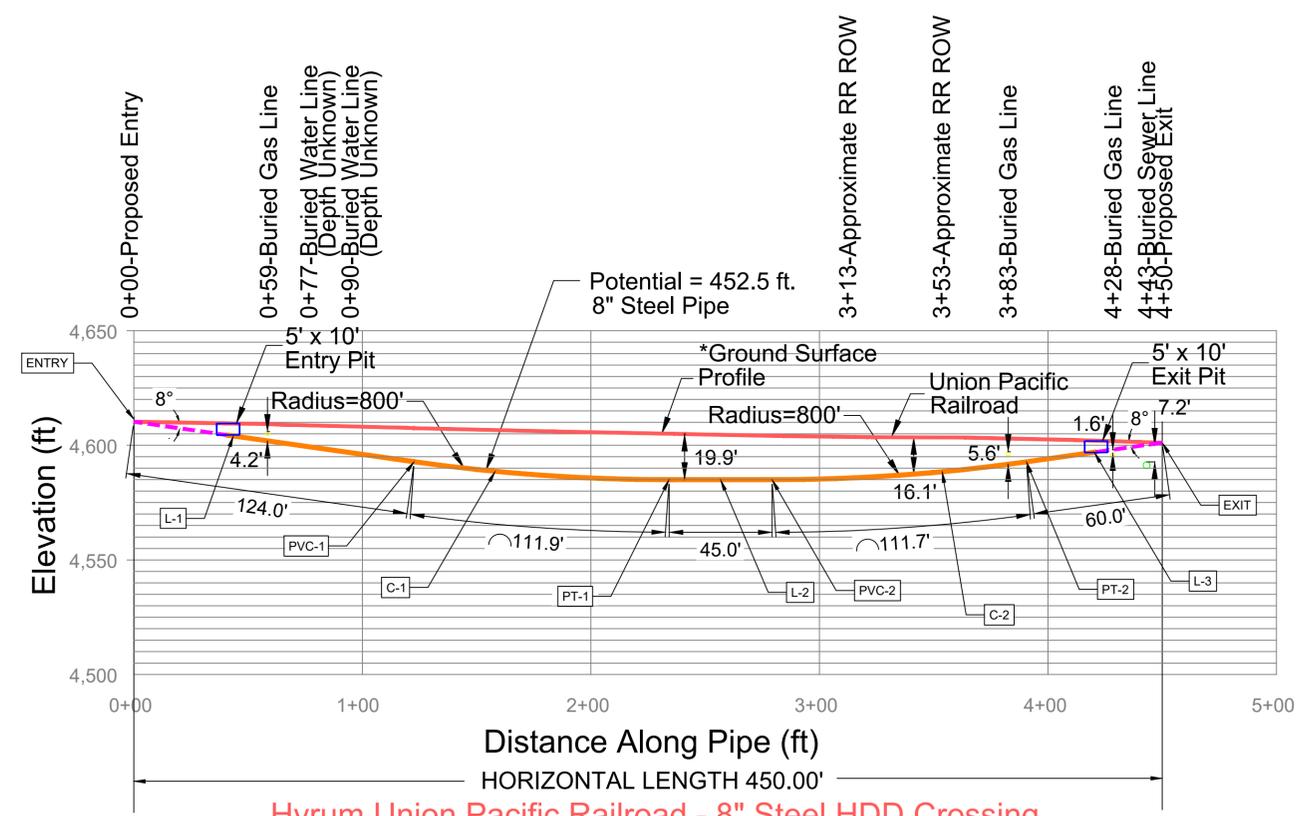
2 Construction Notes.dwg - 10/14/2025 4:04:59pm

WARNING: CONTRACTOR MUST POTHOLE ALL UTILITIES PRIOR TO EXCAVATION.



DRILL DATA				
DATA POINT	STATION	ELEVATION	NORTHING	EASTING
ENTRY	0+00.0	4610.3'	3758552.5304	1541769.3983
PVC-1	1+22.7	4592.8'	3758675.1492	1541765.1719
PT-1	2+34.2	4585.0'	3758786.6282	1541761.3295
PVC-2	2+79.2	4585.0'	3758831.6101	1541759.7790
PT-2	3+90.6	4592.8'	3758942.8825	1541755.9437
EXIT	4+50.0	4601.1'	3759002.2634	1541753.8970

LINE/CURVE DATA			
LINE	LENGTH	RADIUS	DELTA
L1	124.0'		
C1	111.9'	800'	8°
L2	45.0'		
C2	111.7'	800'	8°
L3	60.0'		



Hyrum Union Pacific Railroad - 8" Steel HDD Crossing
 Ground Elevation at 4605±
 HDD Pipe Length = 452.5±

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ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS			ENGINEERING RECORD		
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DATE	BY	CHECK	DRAWN BY:
ENB-P-FL153-MAP-001	0	8" HP TAPLINE FROM HY0003	100988.86	FL-153: INSTALL 450 LF & 475 LF OF 8" STEEL PIPE VIA HDD TRENCHLESS METHODS	0	10/16/2025	RFR	JWD/DD	TERRACON (RR)
									CHECKED BY: TERRACON (JD)
									PROJECT ENGR: ANDREW ASPULND
									SURVEYOR: ENSIGN
									ENGR MNGR: WILL RADFORD
									CONSTR MNGR: NA

SECTION: 32 T 11N R 1E
 ELEVATION: 4610.8 AT ENTRY
 LAT: LONG:
 SCALE: 1"=40'-0" H 1"=40'-0" V

LINE NUMBER: FL-153
 FACILITY: INSTALL 450 LF & 475 LF OF 8" STEEL PIPE
 TITLE: HDD TRENCHLESS CROSSING
 DESCRIPTION: HDD PLAN AND PROFILE ALIGNMENT 1
 ADDRESS: 200 WEST NEAR 570 NORTH

CITY HYRUM	COUNTY CACHE	STATE UTAH
DRAWING NUMBER ENB-P-FL153-MAP-001A		SHEET 3 OF 14
		REVISION 0

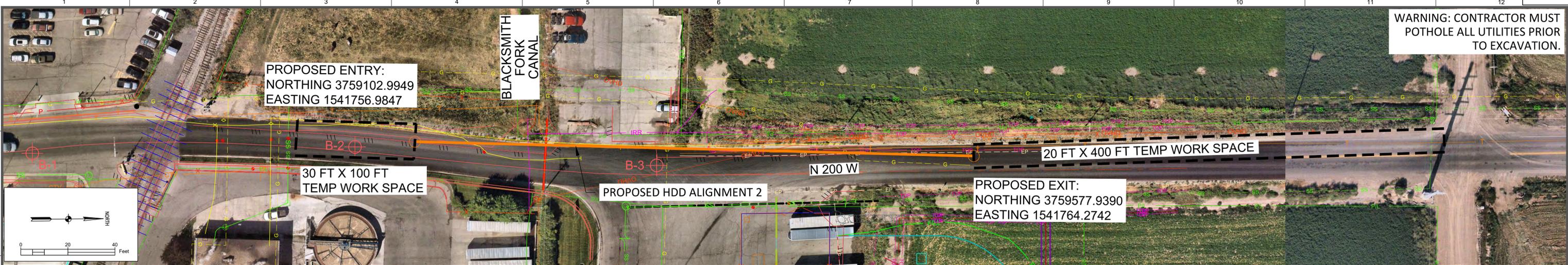
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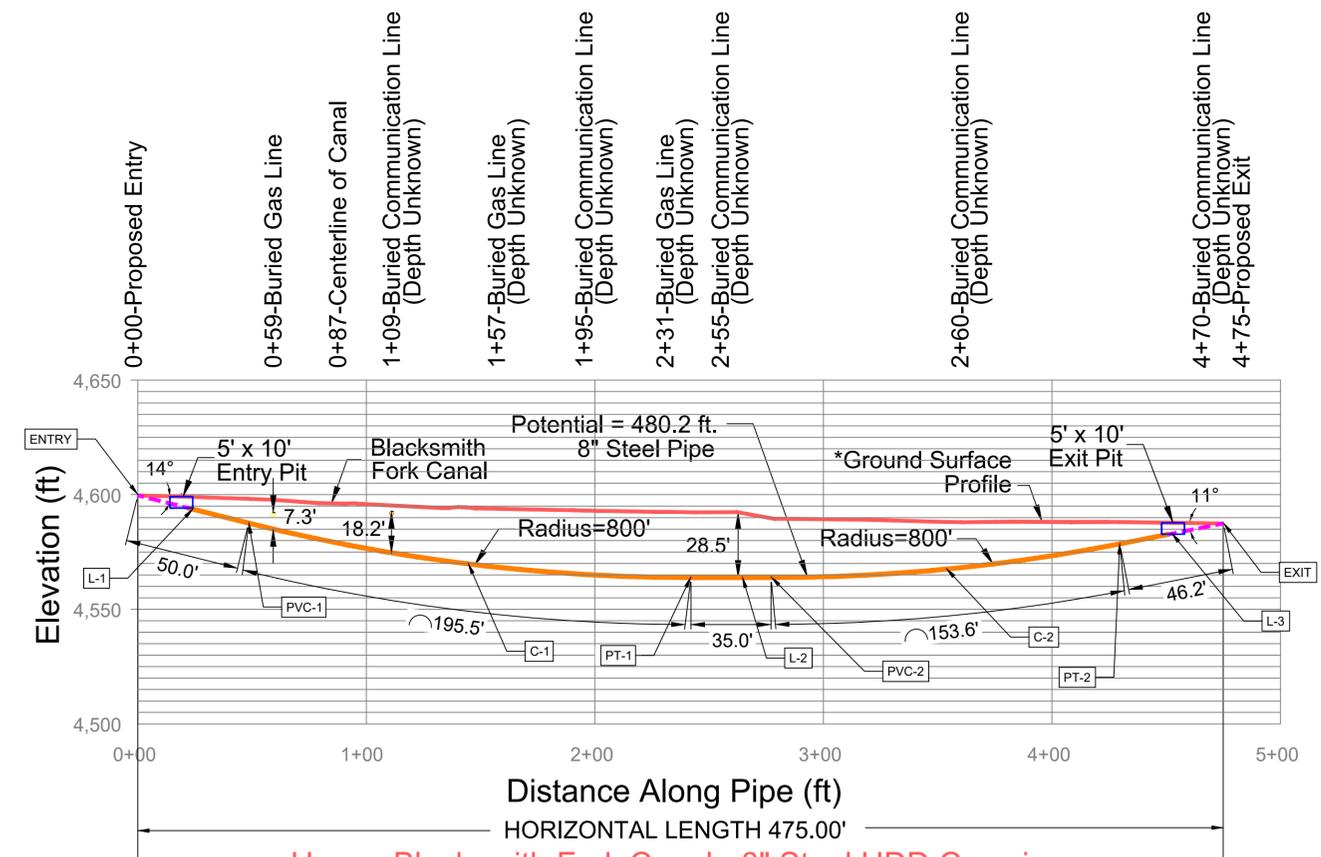
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DRILL DATA				
DATA POINT	STATION	ELEVATION	NORTHING	EASTING
ENTRY	0+00.0	4599.7'	3759102.9949	1541756.9847
PVC-1	0+48.5	4587.6'	3759151.5041	1541757.7217
PT-1	2+42.1	4563.8'	3759345.0193	1541760.6615
PVC-2	2+77.1	4563.8'	3759380.0161	1541761.1932
PT-2	4+29.7	4578.5'	3759532.6457	1541763.5119
EXIT	4+75.0	4587.1'	3759577.9390	1541764.2742

LINE/CURVE DATA			
LINE	LENGTH	RADIUS	DELTA
L1	50.0'		
C1	195.5'	800'	14°
L2	35.0'		
C2	153.6'	800'	11°
L3	46.2'		



Hyrum Blacksmith Fork Canal - 8" Steel HDD Crossing
 Ground Elevation at 4592±
 HDD Pipe Length = 480.2±

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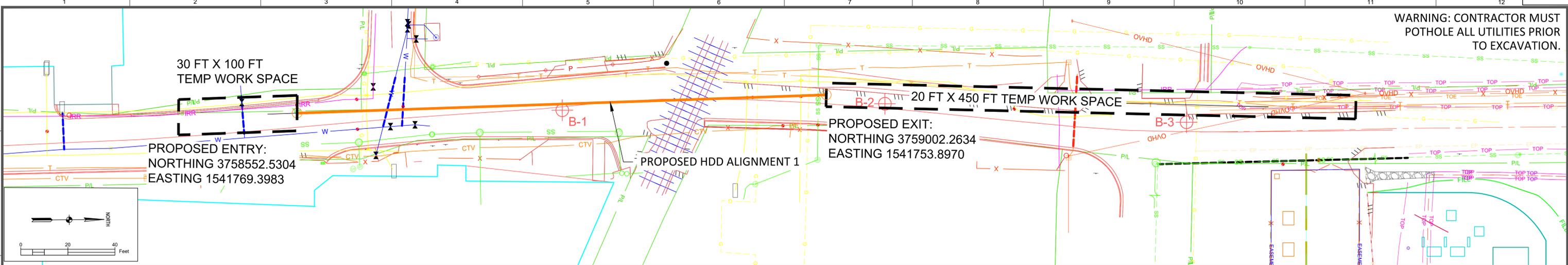
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DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DATE	BY	CHECK	DRAWN BY:
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									TERRACON (JD)
									PROJECT ENGR: ANDREW ASPULND
									SURVEYOR: ENSIGN
									ENGR MNGR: WILL RADFORD
									CONSTR MNGR: NA

			LINE NUMBER: FL-153 FACILITY: INSTALL 450 LF & 475 LF OF 8" STEEL PIPE TITLE: HDD TRENCHLESS CROSSING DESCRIPTION: HDD PLAN AND PROFILE ALIGNMENT 2 ADDRESS: 200 WEST NEAR 570 NORTH
SECTION: 32	T 11N	R 1E	CITY: HYRUM
ELEVATION: 4610.8 AT ENTRY	LAT:	LONG:	COUNTY: CACHE
SCALE: 1"=40'-0" H 1"=40'-0" V	DRAWING NUMBER: ENB-P-FL153-MAP-001A		STATE: UTAH
	SHEET: 4 OF 14	REVISION: 0	

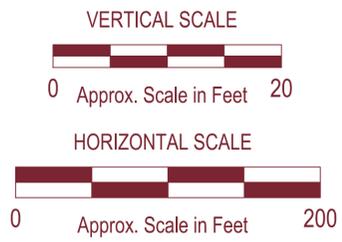
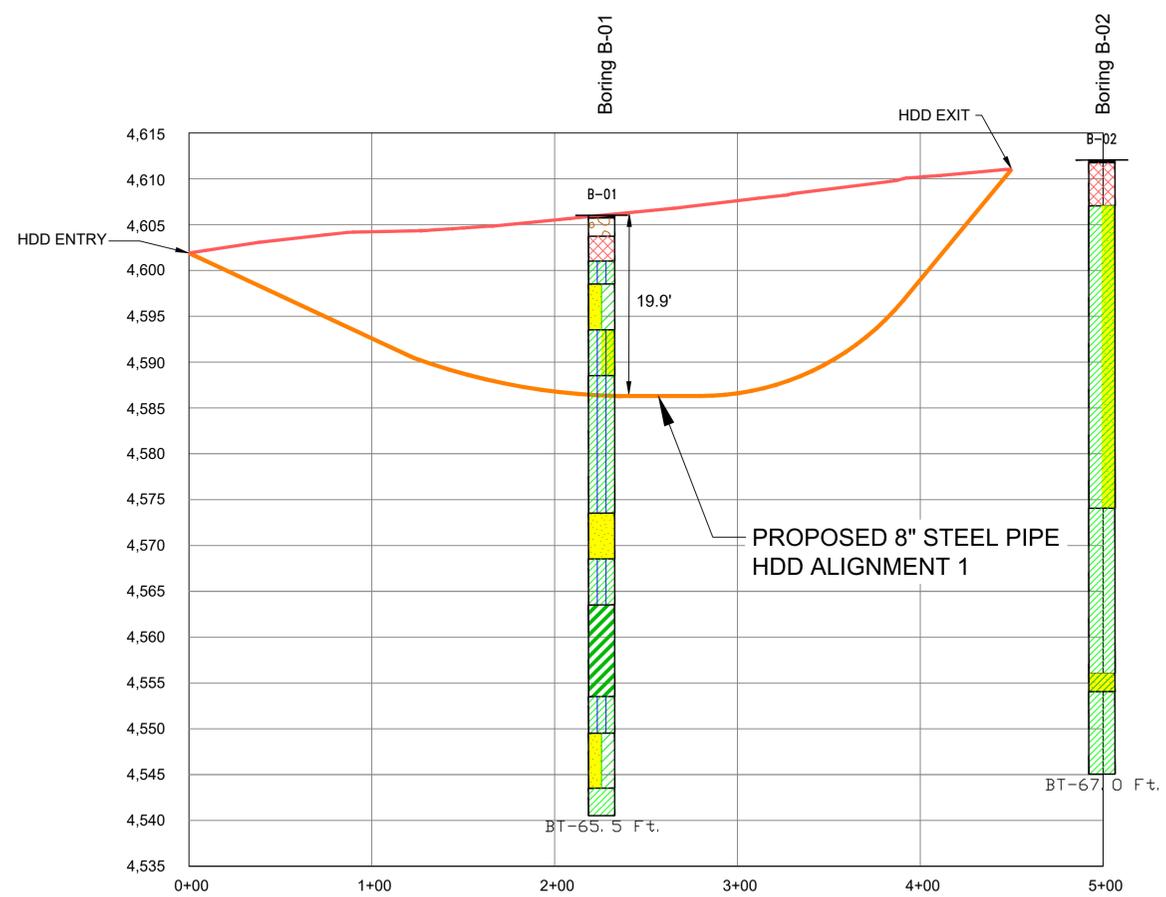
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NOTE:
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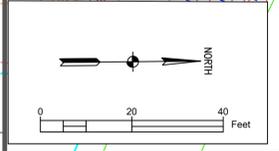
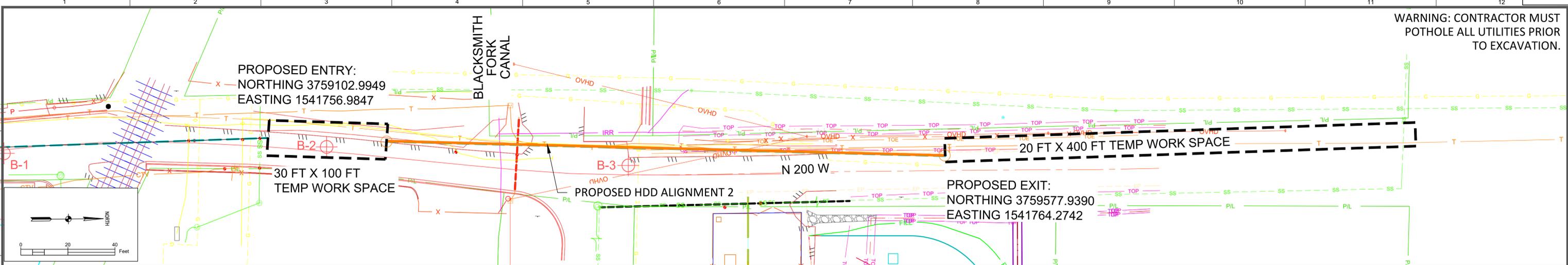
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CONSTRUCTION

REFERENCE DRAWINGS			WORK ORDERS		REVISIONS				ENGINEERING RECORD			
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY:	TERRACON (RR)	
ENB-P-FL153-MAP-001	0	8" HP TAPLINE FROM HY0003	100988.86	FL-153: INSTALL 450 LF & 475 LF OF 8" STEEL PIPE VIA HDD TRENCHLESS METHODS	0	ISSUED FOR CONSTRUCTION	10/16/2025	RFR	JWD/DD	CHECKED BY:	TERRACON (JD)	
										PROJECT ENGR:	ANDREW ASPULND	
										SURVEYOR:	ENSGN	
										ENGR MNGR:	WILL RADFORD	
										CONSTR MNGR:	NA	

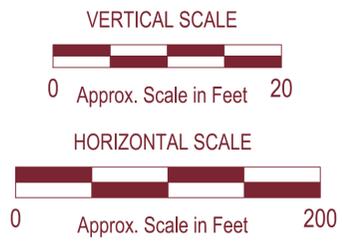
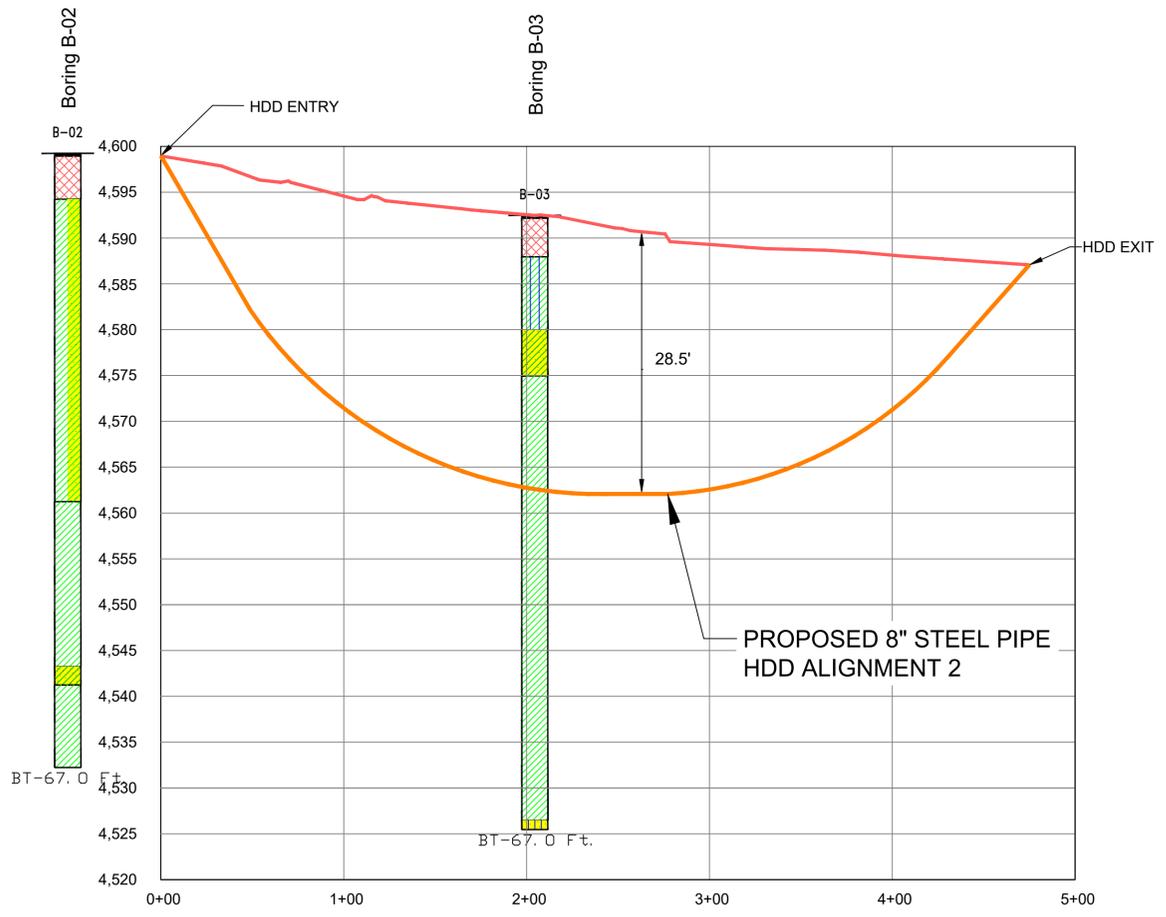
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S:\HDD Geotechnical Plan and Profile.dwg - 10/14/2025 - 04:57am

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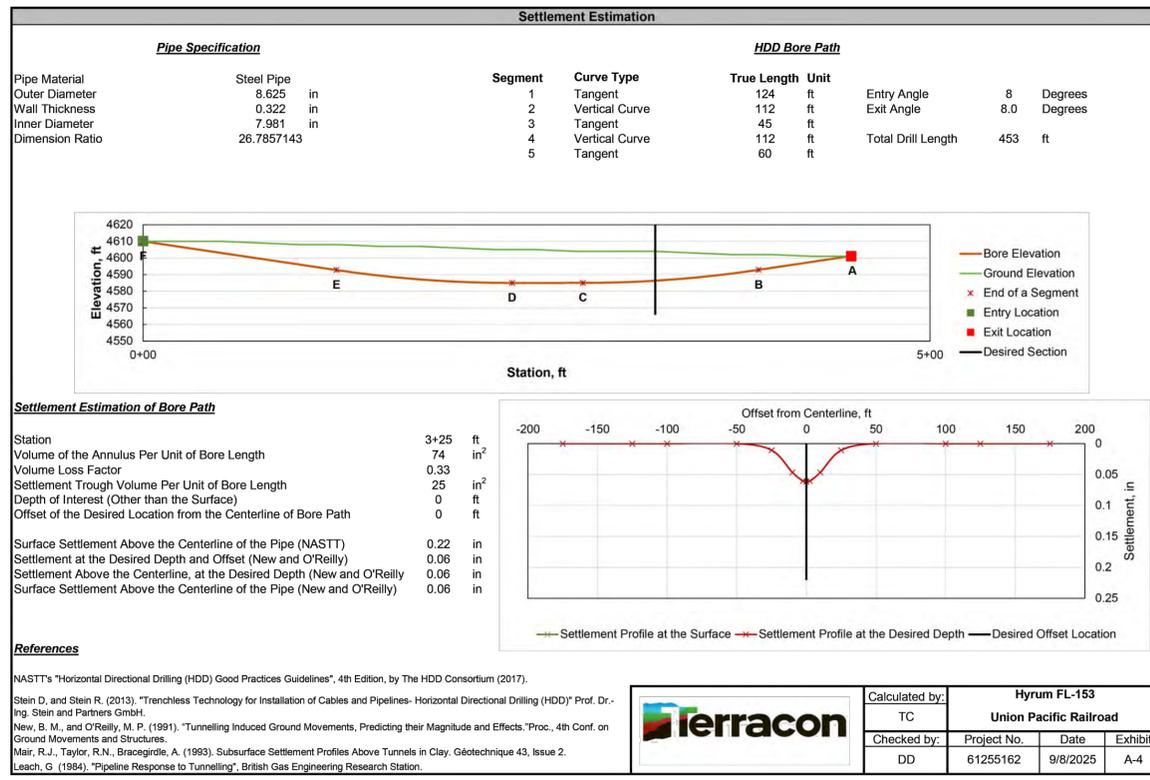
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ENB-P-FL153-MAP-001	0	8" HP TAPLINE FROM HY0003	100988.86	FL-153: INSTALL 450 LF & 475 LF OF 8" STEEL PIPE VIA HDD TRENCHLESS METHODS	0	10/16/2025	RFR	JWD/DD	TERRACON (RR)
									CHECKED BY: TERRACON (JD)
									PROJECT ENGR: ANDREW ASPULND
									SURVEYOR: ENSIGN
									ENGR MNGR: WILL RADFORD
									CONSTR MNGR: NA

SECTION: 32 T 11N R 1E
ELEVATION: 4610.8 AT ENTRY
LAT: LONG:
SCALE: 1"=40'-0" H 1"=40'-0" V

LINE NUMBER: FL-153	FACILITY: INSTALL 450 LF & 475 LF OF 8" STEEL PIPE HDD TRENCHLESS CROSSING	
TITLE: HDD GEOTECHNICAL PLAN AND PROFILE ALIGNMENT 2 200 WEST NEAR 570 NORTH		
CITY HYRUM	COUNTY CACHE	STATE UTAH
DRAWING NUMBER ENB-P-FL153-MAP-001A		SHEET 6 OF 14
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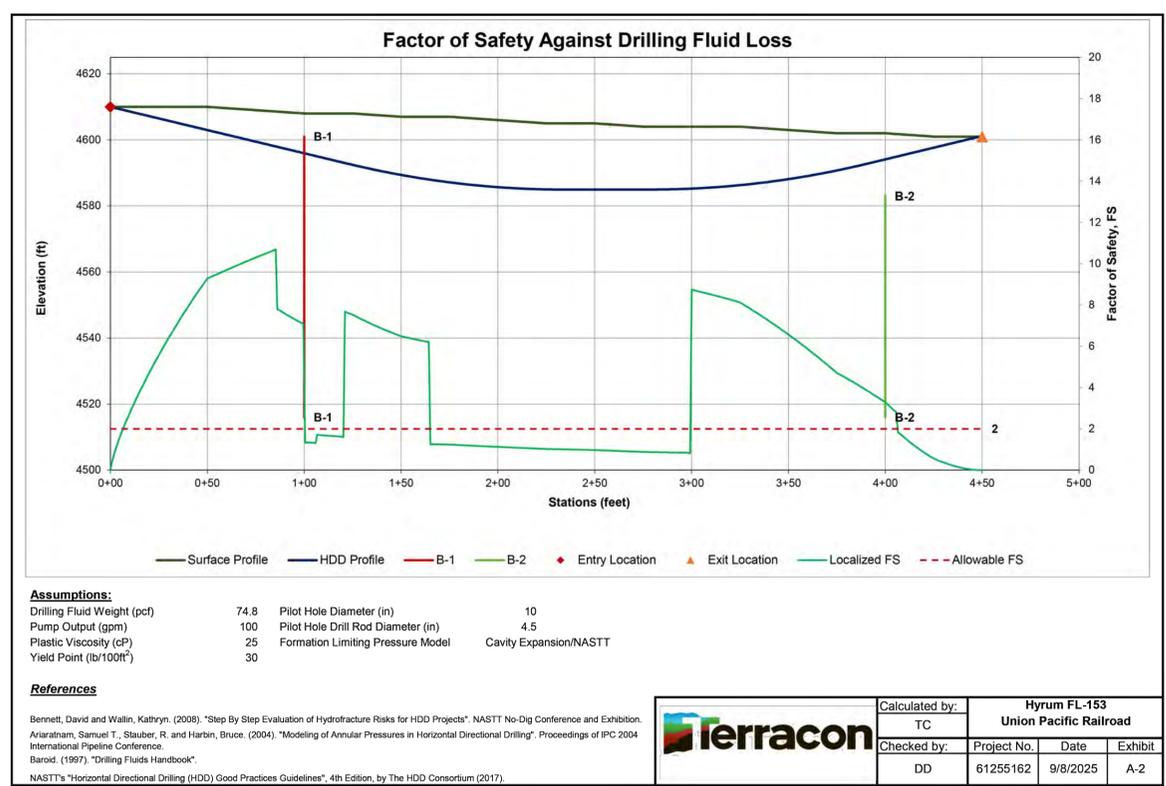
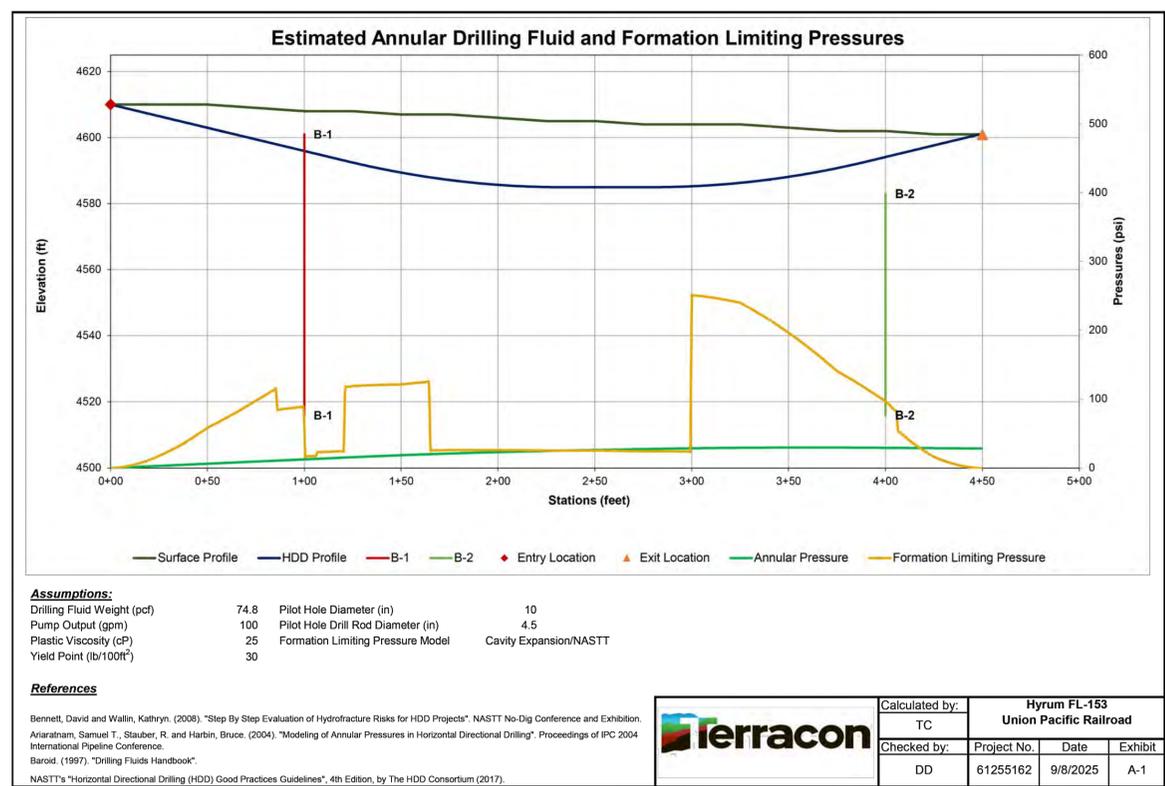
6 HDD Geotechnical Plan and Profile.dwg - 10/14/2025 - 04:57am



NOTES FOR HYDRAULIC FRACTURING ANALYSIS PRESSURE CHART

- ALLOWABLE BOREHOLE PRESSURE FOR THE ANTICIPATED HDD PILOT HOLE WAS EVALUATED USING THE DELFT EQUATION. THIS EVALUATION IS PRELIMINARY BASED ON OUR ASSUMPTIONS AND SHOULD BE CHECKED FOLLOWING SELECTION OF DRILLING EQUIPMENT BY THE CONTRACTOR.
- ANALYSIS WAS BASED ON ENTRY ANGLE OF 8 DEGREES FROM HORIZONTAL, AND AN EXIT ANGLE OF 8 DEGREES FROM HORIZONTAL. A PILOT HOLE DIAMETER OF 10 INCHES, A DRILL ROD DIAMETER OF 4.5 INCHES, A MUD PUMP OUTPUT OF UP TO 100 GALLONS PER MINUTE, AND A MUD UNIT WEIGHT OF 75 PCF. CHANGES IN THE DRILLING FLUID PROPERTIES AND DRILLING EQUIPMENT WILL AFFECT THE ANALYSIS RESULTS.
- PREDICTED DRILLING FLUID PRESSURE CURVES ARE APPROXIMATE AND WERE DEVELOPED USING DRILLING FLUID RHEOLOGY FORMULAS AND SEVERAL HDD DRILLING RULES OF THUMB (I.E., 1 PSI DYNAMIC HEAD LOSS PER 15-FOOT-LONG DRILL ROD.). THIS ASSUMES THE HDD DRILL CUTTINGS ARE BEING PROPERLY REMOVED FROM THE DRILLING FLUID, AS RECOMMENDED IN THE HDD GOOD PRACTICES GUIDELINES. IF THE DRILLING FLUID IS HEAVILY LOADED WITH SOIL, THE PRESSURES CAN BE HIGHER. IF SOLIDS ARE ALLOWED TO BUILD UP IN THE HDD BORE HOLE DURING DRILLING, THE PREDICTED PRESSURES CAN EXCEED ESTIMATES, WHICH CAN LEAD TO INADVERTENT FLUID RETURNS TO THE GROUND SURFACE.
- ALL HDD DRILLING AND PIPELINE INSTALLATION SHOULD BE PERFORMED IN GENERAL ACCORDANCE WITH THE "NASTT HORIZONTAL DIRECTIONAL DRILLING (HDD) GOOD PRACTICES GUIDELINES", FOURTH EDITION (2017).
- AS INDICATED BY THE ALLOWABLE PRESSURE CURVES PRESENTED, THERE IS A HIGHER RISK FOR INADVERTENT FLUID RETURNS BETWEEN STATIONS 1+00 AND 2+50 AND NEAR THE HDD EXIT POINT (APPROXIMATELY STATION 4+10). THE HDD CONTRACTOR SHOULD USE ADDITIONAL CAUTION AND LIMIT DRILLING FLUID PRESSURES TO LESS THAN 50 PSI NEAR THE EXIT POINT. IF THE CONTRACTOR IS DRILLING IN ACCORDANCE WITH THE HORIZONTAL DIRECTIONAL DRILLING GOOD PRACTICES GUIDELINES, THE PRESSURE SHOULD BE SIMILAR TO THAT DEPICATED FOR THE "1 PSI PER JOINT" PLOT.
- THIS ANALYSIS IS BASED ON THE EQUIPMENT AND DRILLING MUD PROPERTIES ESTIMATED BY TERRACON. IF THE CONTRACTOR DEVIATES FROM THE PROVIDED EQUIPMENT OR DRILLING MUD PROPERTIES THE ANALYSIS SHOULD BE CHECKED AND MODIFIED AS APPROPRIATE FOR CONSTRUCTION PURPOSES.

REFERENCES:
 1. EVANS, JAMES P., MCCALPIN, JAMES P. AND HOLMES, DAVID C., 1996. GEOLOGIC MAP OF THE LOGAN 7.5' QUADRANGLE CACHE COUNTY, UTAH. UTAH DEPARTMENT OF NATURAL RESOURCES, UTAH GEOLOGICAL SURVEY MISC. PUBLICATION 96-1
 2. ALLOWABLE BOREHOLE PRESSURE FOR THE ANTICIPATED HDD PILOT HOLE WAS EVALUATED USING THE DELFT GEOTECHNICS EQUATION, AS PUBLISHED IN "RECOMMENDED GUIDELINES FOR INSTALLATION OF PIPELINES BENEATH LEVEES USING HORIZONTAL DIRECTIONAL DRILLING, APPENDIX B, CPAR-GL-98-1," BY THE PIPELINE RESEARCH COUNCIL INTERNATIONAL AND THE US ARMY CORPS OF ENGINEERS (1998), AND USING
 3. THE APPROACH OUTLINED BY BENNETT, R.D., WALLIN, K., (2008). THIS EVALUATION IS PRELIMINARY BASED ON OUR ASSUMPTIONS AND SHOULD BE CHECKED FOLLOWING SELECTION OF DRILLING EQUIPMENT BY THE CONTRACTOR.



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ENB-P-FL153-MAP-001	0	8" HP TAPLINE FROM HY0003	100988.86	FL-153: INSTALL 450 LF & 475 LF OF 8" STEEL PIPE VIA HDD TRENCHLESS METHODS	0	10/16/2025	RFR	JWD/DD	CHECKED BY: TERRACON (JD)
									PROJECT ENGR: ANDREW ASPULND
									SURVEYOR: ENSIGN
									ENGR MNGR: WILL RADFORD
									CONSTR MNGR: NA

			SECTION: 32	T 11N	R 1E
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DRAWING NUMBER: ENB-P-FL153-MAP-001A			LAT:	LONG:	
SHEET 7 OF 14			SCALE: NA		
REVISION 0					

Settlement Estimation

Pipe Specification		HDD Bore Path			
Pipe Material	Steel Pipe	Segment	Curve Type	True Length	Unit
Outer Diameter	8.625 in	1	Tangent	50	ft
Wall Thickness	0.322 in	2	Vertical Curve	200	ft
Inner Diameter	7.981 in	3	Tangent	35	ft
Dimension Ratio	26.7857143	4	Vertical Curve	150	ft
		5	Tangent	50	ft
			Entry Angle	14	Degrees
			Exit Angle	11.1	Degrees
			Total Drill Length	485	ft

Settlement Estimation of Bore Path

Station	2+32	ft
Volume of the Annulus Per Unit of Bore Length	79	in ²
Volume Loss Factor	0.33	
Settlement Trough Volume Per Unit of Bore Length	26	in ²
Depth of Interest (Other than the Surface)	0	ft
Offset of the Desired Location from the Centerline of Bore Path	0	ft
Surface Settlement Above the Centerline of the Pipe (NASTT)	0.07	in
Settlement at the Desired Depth and Offset (New and O'Reilly)	0.04	in
Settlement Above the Centerline, at the Desired Depth (New and O'Reilly)	0.04	in
Surface Settlement Above the Centerline of the Pipe (New and O'Reilly)	0.04	in

References

NASTT's "Horizontal Directional Drilling (HDD) Good Practices Guidelines", 4th Edition, by The HDD Consortium (2017).

Stein D. and Stein R. (2013). "Trenchless Technology for Installation of Cables and Pipelines- Horizontal Directional Drilling (HDD)" Prof. Dr. Ing. Stein and Partners GmbH.

New, B. M., and O'Reilly, M. P. (1991). "Tunnelling Induced Ground Movements, Predicting their Magnitude and Effects." Proc., 4th Conf. on Ground Movements and Structures.

Mair, R.J., Taylor, R.N., Bracegirdle, A. (1993). Subsurface Settlement Profiles Above Tunnels in Clay. Géotechnique 43, Issue 2.

Leach, G. (1984). "Pipeline Response to Tunnelling", British Gas Engineering Research Station.

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	TC	Blacksmith Fork Canal		
	Checked by:	Project No.	Date	Exhibit
	DD	61255162	9/8/2025	A-4

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Estimated Annular Drilling Fluid and Formation Limiting Pressures

Assumptions:

Drilling Fluid Weight (pcf)	74.8	Pilot Hole Diameter (in)	10
Pump Output (gpm)	100	Pilot Hole Drill Rod Diameter (in)	4.5
Plastic Viscosity (cP)	25	Formation Limiting Pressure Model	Cavity Expansion/NASTT
Yield Point (lb/100ft ²)	30		

References

Bennett, David and Wallin, Kathryn. (2008). "Step By Step Evaluation of Hydrofracture Risks for HDD Projects". NASTT No-Dig Conference and Exhibition.

Anirathnam, Samuel T., Stauber, R. and Harbin, Bruce. (2004). "Modeling of Annular Pressures in Horizontal Directional Drilling". Proceedings of IPC 2004 International Pipeline Conference.

Baroid. (1997). "Drilling Fluids Handbook".

NASTT's "Horizontal Directional Drilling (HDD) Good Practices Guidelines", 4th Edition, by The HDD Consortium (2017).

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	TC	Blacksmith Fork Canal		
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	DD	61255162	9/8/2025	A-3

Factor of Safety Against Drilling Fluid Loss

Assumptions:

Drilling Fluid Weight (pcf)	74.8	Pilot Hole Diameter (in)	10
Pump Output (gpm)	100	Pilot Hole Drill Rod Diameter (in)	4.5
Plastic Viscosity (cP)	25	Formation Limiting Pressure Model	Cavity Expansion/NASTT
Yield Point (lb/100ft ²)	30		

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Baroid. (1997). "Drilling Fluids Handbook".

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									CHECKED BY: TERRACON (JD)
									PROJECT ENGR: ANDREW ASPULND
									SURVEYOR: ENSIGN
									ENGR MNGR: WILL RADFORD
									CONSTR MNGR: NA

SECTION: 32	T 11N	R 1E
ELEVATION: 4610.8 AT ENTRY		
LAT:	LONG:	
SCALE: NA		

LINE NUMBER:	FL-153
FACILITY:	INSTALL 450 LF & 475 LF OF 8" STEEL PIPE
TITLE:	HDD TRENCHLESS CROSSING
DESCRIPTION:	HDD PIPE STRESS & IR ANALYSIS ALIGNMENT 2
ADDRESS:	200 WEST NEAR 570 NORTH

CITY	COUNTY	STATE
HYRUM	CACHE	UTAH
DRAWING NUMBER		SHEET
ENB-P-FL153-MAP-001A		8 OF 14
		REVISION
		0

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8 HDD Pipe Stress & IR Analysis.dwg - 10/14/2025 - 04:56am

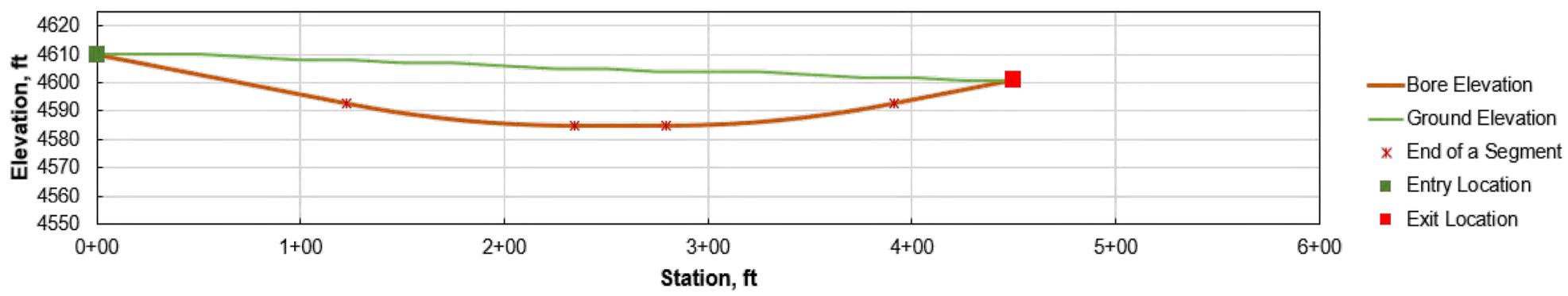
Design Calculations for Pullback Force

Pipe Specification

Pipe Material	Steel Pipe
Outer Diameter	8.625 in
Wall Thickness	0.322 in
Inner Diameter	7.981 in
Dimension Ratio	26.785714
Safe Pulling Tensile Stress	46800 psi
Allowable Bending Stress	39000 psi
Allowable Hoop Stress	65372 psi
Pipe Ballast Status	No ballast

HDD Bore Path

Segment	Curve Type	True Length	Unit	Entry Angle	8	Degrees
1	Tangent	60	ft	Exit Angle	7.8	Degrees
2	Vertical Curve	110	ft	Total Drill Length	450	ft
3	Tangent	45	ft			
4	Vertical Curve	110	ft			
5	Tangent	125	ft			



Results of Pipe Stress Analysis

Point	Tensile Load (lb)	Startup Load (lb)	Axial Stress (psi)	Status	Bending Stress (psi)	Hoop Stress (psi)	Combined Axial and Bending Stress Ratio	Status	Combined Axial, Bending and Hoop Stress Ratio	Status
A (Start of Pullback)	1261	2521	300	OK	0	0	0.01	OK	0.00	OK
B (End of Segment 5)	1333	2666	317	OK	0	125	0.01	OK	0.00	OK
C (End of Segment 4)	1600	3199	381	OK	13027	176	0.35	OK	0.10	OK
D (End of Segment 3)	1764	3528	420	OK	0	175	0.01	OK	0.00	OK
E (End of Segment 2)	2135	4269	508	OK	13027	121	0.35	OK	0.11	OK
F (End of Segment 1)	2384	4768	568	OK	0	63	0.02	OK	0.00	OK

Summary of Pipe Stress Analysis

Evaluated Aspect	Value	Unit*	Status
Pull Force	4768	lbf	OK
Pull Stress	568	psi	OK
Bending Stress	13027	psi	OK
Hoop Stress	176	psi	OK
Combine tensile and bending stress	0.350		OK
Combine tensile, bending and hoop stress	0.105		OK

*D stands for outer diameter of the product pipe

References

NASTT's "Horizontal Directional Drilling (HDD) Good Practices Guidelines", 4th Edition, by The HDD Consortium (2017).
 Stein D, and Stein R. (2013). "Trenchless Technology for Installation of Cables and Pipelines- Horizontal Directional Drilling (HDD)" Prof. Dr.-Ing. Stein and Partners GmbH.

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	TC	Union Pacific Railroad		
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SECTION: 32 T 11N R 1E ELEVATION: 4610.8 AT ENTRY LAT: LONG: SCALE: NA																			
DRAWING NUMBER: ENB-P-FL153-MAP-001A SHEET: 9 OF 14 REVISION: 0																			



9 HDD Pull Back Calculations.dwg - 10/14/2025 - 05:04am

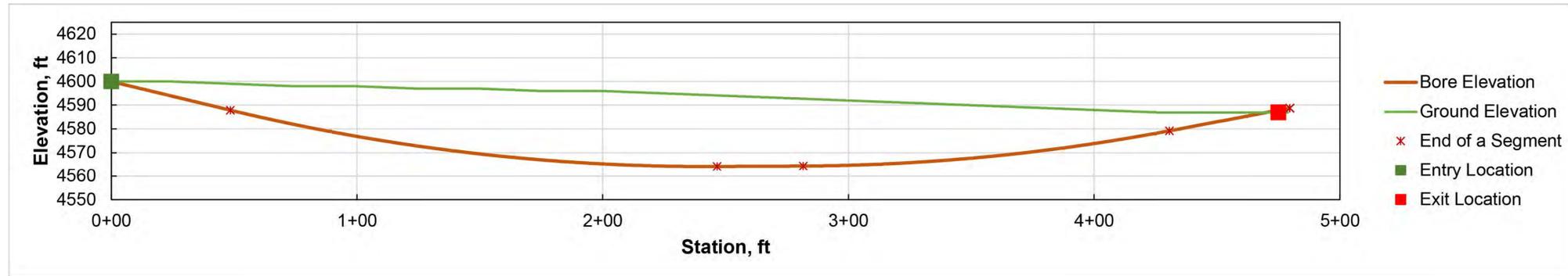
Design Calculations for Pullback Force

Pipe Specification

Pipe Material	Steel Pipe
Outer Diameter	8.625 in
Wall Thickness	0.322 in
Inner Diameter	7.981 in
Dimension Ratio	26.785714
Safe Pulling Tensile Stress	46800 psi
Allowable Bending Stress	39000 psi
Allowable Hoop Stress	65372 psi
Pipe Ballast Status	No ballast

HDD Bore Path

Segment	Curve Type	True Length	Unit	Entry Angle	Exit Angle
1	Tangent	50	ft	14	Degrees
2	Vertical Curve	200	ft	11.1	Degrees
3	Tangent	35	ft		
4	Vertical Curve	150	ft		
5	Tangent	50	ft		
		Total Drill Length	485	ft	



Results of Pipe Stress Analysis

Point	Tensile Load (lb)	Startup Load (lb)	Axial Stress (psi)	Status	Bending Stress (psi)	Hoop Stress (psi)	Combined Axial and Bending Stress Ratio	Status	Combined Axial, Bending and Hoop Stress Ratio	Status
A (Start of Pullback)	1343	2687	320	OK	0	0	0.01	OK	0.00	OK
B (End of Segment 5)	1376	2751	328	OK	0	145	0.01	OK	0.00	OK
C (End of Segment 4)	2111	4221	503	OK	13027	249	0.35	OK	0.10	OK
D (End of Segment 3)	2410	4821	574	OK	0	250	0.02	OK	0.00	OK
E (End of Segment 2)	5678	11357	1352	OK	13027	84	0.38	OK	0.12	OK
F (End of Segment 1)	6177	12353	1471	OK	0	0	0.05	OK	0.00	OK

Summary of Pipe Stress Analysis

Evaluated Aspect	Value	Unit*	Status
Pull Force	12353	lbf	OK
Pull Stress	1471	psi	OK
Bending Stress	13027	psi	OK
Hoop Stress	250	psi	OK
Combine tensile and bending stress	0.377		N/A
Combine tensile, bending and hoop stress	0.119		N/A

*D stands for outer diameter of the product pipe

References

NASTT's "Horizontal Directional Drilling (HDD) Good Practices Guidelines", 4th Edition, by The HDD Consortium (2017).
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												REVISION		0	

10 HDD Pull Back Calculations.dwg - 10/14/2025 - 04:54am

FL-153 Trenchless Crossing
Near 570 North and 200 West
Hyrum, Utah
Terracon Proposal No. 61255162



General Notes

Sampling	Water Level	Field Tests
Modified California Ring Sampler Modified Dames & Moore Ring Sampler Shelby Tube Standard Penetration Test	Water Initially Encountered Water Level After a Specified Period of Time Water Level After a Specified Period of Time Cave In Encountered Water levels indicated on the soil boring logs are the levels measured in the borehole at the times indicated. Groundwater level variations will occur over time. In low permeability soils, accurate determination of groundwater levels is not possible with short term water level observations.	N Standard Penetration Test Resistance (Blows/Ft.) (HP) Hand Penetrometer (T) Torvane (DCP) Dynamic Cone Penetrometer UC Unconfined Compressive Strength (PID) Photo-Ionization Detector (OVA) Organic Vapor Analyzer

Descriptive Soil Classification

Soil classification as noted on the soil boring logs is based Unified Soil Classification System. Where sufficient laboratory data exist to classify the soils consistent with ASTM D2487 "Classification of Soils for Engineering Purposes" this procedure is used. ASTM D2488 "Description and Identification of Soils (Visual-Manual Procedure)" is also used to classify the soils, particularly where insufficient laboratory data exist to classify the soils in accordance with ASTM D2487. In addition to USCS classification, coarse grained soils are classified on the basis of their in-place relative density, and fine-grained soils are classified on the basis of their consistency. See "Strength Terms" table below for details. The ASTM standards noted above are for reference to methodology in general. In some cases, variations to methods are applied as a result of local practice or professional judgment.

Location And Elevation Notes

Exploration point locations as shown on the Exploration Plan and as noted on the soil boring logs in the form of Latitude and Longitude are approximate. See Exploration and Testing Procedures in the report for the methods used to locate the exploration points for this project. Surface elevation data annotated with +/- indicates that no actual topographical survey was conducted to confirm the surface elevation. Instead, the surface elevation was approximately determined from topographic maps of the area.

Strength Terms						
Relative Density of Coarse-Grained Soils (More than 50% retained on No. 200 sieve.) Density determined by Standard Penetration Resistance			Consistency of Fine-Grained Soils (50% or more passing the No. 200 sieve.) Consistency determined by laboratory shear strength testing, field visual-manual procedures or standard penetration resistance			
Relative Density	Standard Penetration or N-Value (Blows/Ft.)	Ring Sampler (Blows/Ft.)	Consistency	Unconfined Compressive Strength Qu (tsf)	Standard Penetration or N-Value (Blows/Ft.)	Ring Sampler (Blows/Ft.)
Very Loose	0 - 3	0 - 6	Very Soft	less than 0.25	0 - 1	< 3
Loose	4 - 9	7 - 18	Soft	0.25 to 0.50	2 - 4	3 - 4
Medium Dense	10 - 29	19 - 58	Medium Stiff	0.50 to 1.00	4 - 8	5 - 9
Dense	30 - 50	59 - 98	Stiff	1.00 to 2.00	8 - 15	10 - 18
Very Dense	> 50	> 99	Very Stiff	2.00 to 4.00	15 - 30	19 - 42
			Hard	> 4.00	> 30	> 42

Relevance of Exploration and Laboratory Test Results

Exploration/field results and/or laboratory test data contained within this document are intended for application to the project as described in this document. Use of such exploration/field results and/or laboratory test data should not be used independently of this document.

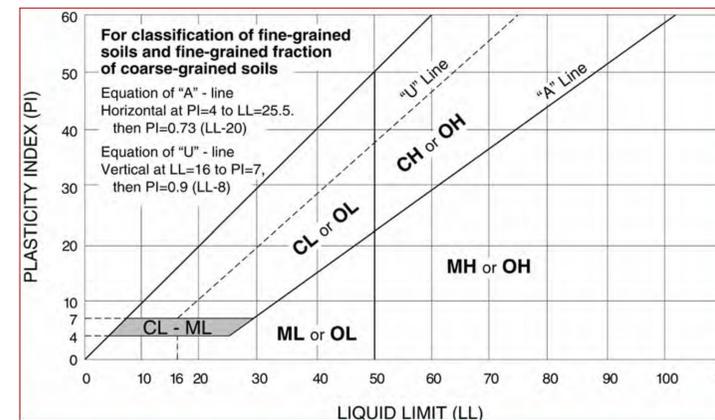
Facilities | Environmental | Geotechnical | Materials

FL-153 Trenchless Crossing
Near 570 North and 200 West
Hyrum, Utah
Terracon Proposal No. 61255162



Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests ^A				Soil Classification	
				Group Symbol	Group Name ^B
Coarse-Grained Soils: More than 50% retained on No. 200 sieve	Gravels: More than 50% of coarse fraction retained on No. 4 sieve	Clean Gravels: Less than 5% fines ^C	Cu ≥ 4 and 1 ≤ Cc ≤ 3 ^E	GW	Well-graded gravel ^F
		Gravels with Fines: More than 12% fines ^C	Cu < 4 and/or [Cc < 1 or Cc > 3.0] ^E	GP	Poorly graded gravel ^F
			Fines classify as ML or MH	GM	Silty gravel ^{F, G, H}
	Sands: 50% or more of coarse fraction passes No. 4 sieve	Clean Sands: Less than 5% fines ^D	Cu ≥ 6 and 1 ≤ Cc ≤ 3 ^E	SW	Well-graded sand ^I
		Sands with Fines: More than 12% fines ^D	Cu < 6 and/or [Cc < 1 or Cc > 3.0] ^E	SP	Poorly graded sand ^I
			Fines classify as ML or MH	SM	Silty sand ^{G, H, I}
Fine-Grained Soils: 50% or more passes the No. 200 sieve	Silts and Clays: Liquid limit less than 50	Inorganic:	PI > 7 and plots above "A" line ^J	CL	Lean clay ^{K, L, M}
			PI < 4 or plots below "A" line ^J	ML	Silt ^{K, L, M}
		Organic:	$\frac{LL_{oven\ dried}}{LL_{not\ dried}} < 0.75$	OL	Organic clay ^{K, L, M, N} Organic silt ^{K, L, M, O}
	Silts and Clays: Liquid limit 50 or more	Inorganic:	PI plots on or above "A" line	CH	Fat clay ^{K, L, M}
			PI plots below "A" line	MH	Elastic silt ^{K, L, M}
		Organic:	$\frac{LL_{oven\ dried}}{LL_{not\ dried}} < 0.75$	OH	Organic clay ^{K, L, M, P} Organic silt ^{K, L, M, Q}
Highly organic soils:	Primarily organic matter, dark in color, and organic odor			PT	Peat

- ^A Based on the material passing the 3-inch (75-mm) sieve.
- ^B If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.
- ^C Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.
- ^D Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay.
- ^E $Cu = D_{60}/D_{10}$ $Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$
- ^F If soil contains ≥ 15% sand, add "with sand" to group name.
- ^G If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.
- ^H If fines are organic, add "with organic fines" to group name.
- ^I If soil contains ≥ 15% gravel, add "with gravel" to group name.
- ^J If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.
- ^K If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.
- ^L If soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.
- ^M If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.
- ^N PI ≥ 4 and plots on or above "A" line.
- ^O PI < 4 or plots below "A" line.
- ^P PI plots on or above "A" line.
- ^Q PI plots below "A" line.



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REFERENCE DRAWINGS		WORK ORDERS		REVISIONS				ENGINEERING RECORD	
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DATE	BY	CHECK	DRAWN BY: TERRACON (RR)
ENB-P-FL153-MAP-001	0	8" HP TAPLINE FROM HY0003	100988.86	FL-153: INSTALL 450 LF & 475 LF OF 8" STEEL PIPE VIA HDD TRENCHLESS METHODS	0	10/16/2025	RFR	JWD/DD	CHECKED BY: TERRACON (JD)
									PROJECT ENGR: ANDREW ASPULND
									SURVEYOR: ENSIGN
									ENGR MNGR: WILL RADFORD
									CONSTR MNGR: NA

			LINE NUMBER: FL-153 FACILITY: INSTALL 450 LF & 475 LF OF 8" STEEL PIPE TITLE: HDD TRENCHLESS CROSSING DESCRIPTION: BORE LOG KEYS ADDRESS: 200 WEST NEAR 570 NORTH
SECTION: 32	T 11N	R 1E	CITY: HYRUM
ELEVATION: 4610.8 AT ENTRY	COUNTY: CACHE		STATE: UTAH
LAT: _____	DRAWING NUMBER: ENB-P-FL153-MAP-001A		SHEET: 11 OF 14
LONG: _____	REVISION: 0		
SCALE: NA			

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11 Bore Log Keys.dwg - 10/14/2025 - 04:54pm

Hyrum - FL-153 HDD
 4687-4699 S 1200 W | Hyrum, UT
 Terracon Project No. 61255162



Boring Log No. B-01

Model Layer	Graphic Log	Location: See Exploration Plan	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Water Content (%)	Atterberg Limits	Percent Fines
		Latitude: 41.6445° Longitude: -111.8610°							LL-PL-PI	
		Elevation: 4601 (Ft.)								
1	ASPHALT, approximately 3.5 inches thick	4600.71								
2	AGGREGATE BASE COURSE, approximately 2 feet thick	4598.71								
3	SILTY CLAY (CL-ML), dark brown, medium stiff	5.0			21	2-3-2-2 N=5				
4	SILTY CLAY (CL-ML), dark brown to light brown, very soft, trace oxidation stains	7.5			23	1-0-0-0 N=0				
5	POORLY GRADED SAND WITH CLAY (SP-SC), light brown to dark brown, loose	10			22					
	light gray	16			16	1-3-3-5 N=6	28.0	NP	55.0	
4	SILTY CLAY WITH SAND (CL-ML), dark gray to dark brown, soft, trace oxidation stains	15			21	2-0-2-2 N=2				
	SILTY CLAY (CL-ML), dark gray, medium stiff to stiff	20			22	2-2-4-5 PP = 1.0 tsf				
	trace oxidation staining	25			20	PP = 1.5 tsf	31.7	NP	81.0	
		30			23	6-6-7-7 PP = 0.75 tsf				
5	POORLY GRADED SAND (SP), dark gray	32.5								

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
 See Supporting Information for explanation of symbols and abbreviations.
 Elevation Reference: Elevations obtained using Google Earth

Water Level Observations
 5' observed while drilling

Drill Rig
 Geoprobe 3100 GT

Hammer Type
 Automatic

Driller
 Terracon

Logged by
 ACL

Boring Started
 08-28-2025

Boring Completed
 08-27-2025

Notes

Advancement Method
 Mud Rotary

Abandonment Method
 Boring backfilled with bentonite upon completion and asphalt core utilibonded

Facilities | Environmental | Geotechnical | Materials

Hyrum - FL-153 HDD
 4687-4699 S 1200 W | Hyrum, UT
 Terracon Project No. 61255162



Boring Log No. B-01

Model Layer	Graphic Log	Location: See Exploration Plan	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Water Content (%)	Atterberg Limits	Percent Fines
		Latitude: 41.6445° Longitude: -111.8610°							LL-PL-PI	
		Elevation: 4601 (Ft.)								
5	POORLY GRADED SAND (SP), dark gray (continued)	35			8	PP = 1.5 tsf	31.3			86.5
	SILTY CLAY (CL-ML), dark gray, soft to medium stiff	40			24	3-1-3-1 N=4				
	FAT CLAY (CH), dark gray, very soft, trace black mottling, trace oxidation staining	45			24	0-0-2-5 PP = 0.25 tsf	34.2			99.6
		50			22	PP = 0.75 tsf				
	SILTY CLAY (CL-ML), dark gray, medium stiff, trace black mottling	55			24	3-4-5-6 PP = 0.5 tsf				
	POORLY GRADED SAND WITH CLAY (SP-SC), dark brownish gray, medium dense	60			24	6-11-12-15 PP = 0.75 tsf				
	LEAN CLAY (CL), dark gray, soft, trace black mottling	65			24	0-0-3-3 N=3				
Boring Terminated at 65.5 Feet										

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
 See Supporting Information for explanation of symbols and abbreviations.
 Elevation Reference: Elevations obtained using Google Earth

Water Level Observations
 5' observed while drilling

Drill Rig
 Geoprobe 3100 GT

Hammer Type
 Automatic

Driller
 Terracon

Logged by
 ACL

Boring Started
 08-28-2025

Boring Completed
 08-27-2025

Notes

Advancement Method
 Mud Rotary

Abandonment Method
 Boring backfilled with bentonite upon completion and asphalt core utilibonded

Facilities | Environmental | Geotechnical | Materials



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REFERENCE DRAWINGS		WORK ORDERS		REVISIONS				ENGINEERING RECORD	
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY: TERRACON (RR)
ENB-P-FL153-MAP-001	0	8" HP TAPLINE FROM HY0003	100988.86	0	ISSUED FOR CONSTRUCTION	10/16/2025	RFR	JWD/DD	CHECKED BY: TERRACON (JD)
									PROJECT ENGR: ANDREW ASPULND
									SURVEYOR: ENSIGN
									ENGR MNGR: WILL RADFORD
									CONSTR MNGR: NA

SECTION: 32	T 11N	R 1E
ELEVATION: 4610.8 AT ENTRY		
LAT:	LONG:	
SCALE: NA		

LINE NUMBER: FL-153		
FACILITY: INSTALL 450 LF & 475 LF OF 8" STEEL PIPE		
TITLE: HDD TRENCHLESS CROSSING		
DESCRIPTION: BORE LOGS		
ADDRESS: 200 WEST NEAR 570 NORTH		
CITY: HYRUM	COUNTY: CACHE	STATE: UTAH
DRAWING NUMBER: ENB-P-FL153-MAP-001A		
SHEET: 12 OF 14	REVISION: 0	

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12 Bore Log.dwg - 10/14/2025 - 04:53pm

Hyrum - FL-153 HDD
4687-4699 S 1200 W | Hyrum, UT
Terracon Project No. 61255162



Boring Log No. B-02

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 41.6453° Longitude: -111.8610°	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Water Content (%)	Atterberg Limits LL-PL-PI	Percent Fines
1	ASPHALT, approximately 3.5 inches thick	Elevation: 4583 (Ft.)	0.3							
3	FILL - SILTY GRAVEL WITH SAND (GM), black to gray, medium dense		5.0							
4	LEAN CLAY WITH SAND (CL), light tan to gray, soft to medium stiff		5.0							
			10.0			10	14-12-8-2 N=20	6.9	NP	2.7
			15.0			19	2-3-4-5 N=7			
			20.0			23	2-1-1-1 N=2			
			25.0			21	1-1-2-2 N=3	32.2		74.3
			30.0			21	2-3-4-3 N=7			
			35.0			16	2-2-3-4	34.1	31-22-9	82.2
			40.0							
			45.0							
			50.0							
			55.0							
			60.0							
			65.0			20	PP = 2.5 tsf			

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevation Reference: Elevations obtained using Google Earth

Water Level Observations
Groundwater not observed while drilling

Drill Rig
CME 55

Hammer Type
Automatic

Driller
South Slopes

Logged by
VH

Boring Started
08-13-2025

Boring Completed
08-13-2025

Notes

Advancement Method
Mud Rotary

Abandonment Method
Boring backfilled with bentonite grout upon completion. Asphalt core patched with utilibond.

Facilities | Environmental | Geotechnical | Materials

Hyrum - FL-153 HDD
4687-4699 S 1200 W | Hyrum, UT
Terracon Project No. 61255162



Boring Log No. B-02

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 41.6453° Longitude: -111.8610°	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Water Content (%)	Atterberg Limits LL-PL-PI	Percent Fines
	LEAN CLAY WITH SAND (CL), light tan to gray, soft to medium stiff (continued)	Elevation: 4583 (Ft.)	35.0							
			38.0			22	2-1-3-3 N=4	32.7		
	LEAN CLAY (CL), gray, soft to stiff		40.0			18	2-2-2-4			
			45.0			24	1-1-1-2 N=2	32.5		99.7
			50.0			24	0-1-2-2 N=3			
			55.0			24	1-5-6-9 N=11			
	SANDY LEAN CLAY (CL), gray, stiff		56.0							
			58.0							
	LEAN CLAY (CL), gray, medium stiff, with sand seams		60.0			24	0-2-2-3 N=4			
			65.0			24	1-2-3-3 N=5			
			67.0							

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevation Reference: Elevations obtained using Google Earth

Water Level Observations
Groundwater not observed while drilling

Drill Rig
CME 55

Hammer Type
Automatic

Driller
South Slopes

Logged by
VH

Boring Started
08-13-2025

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Notes

Advancement Method
Mud Rotary

Abandonment Method
Boring backfilled with bentonite grout upon completion. Asphalt core patched with utilibond.

Facilities | Environmental | Geotechnical | Materials



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REFERENCE DRAWINGS		WORK ORDERS		REVISIONS				ENGINEERING RECORD	
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DATE	BY	CHECK	DRAWN BY: TERRACON (RR)
ENB-P-FL153-MAP-001	0	8" HP TAPLINE FROM HY0003	100988.86	FL-153: INSTALL 450 LF & 475 LF OF 8" STEEL PIPE VIA HDD TRENCHLESS METHODS	0	10/16/2025	RFR	JWD/DD	CHECKED BY: TERRACON (JD)
									PROJECT ENGR: ANDREW ASPULND
									SURVEYOR: ENSIGN
									ENGR MNGR: WILL RADFORD
									CONSTR MNGR: NA

SECTION: 32	T 11N	R 1E
ELEVATION: 4610.8 AT ENTRY		
LAT:	LONG:	
SCALE: NA		

LINE NUMBER: FL-153	
FACILITY: INSTALL 450 LF & 475 LF OF 8" STEEL PIPE	
TITLE: HDD TRENCHLESS CROSSING	
DESCRIPTION: BORE LOGS	
ADDRESS: 200 WEST NEAR 570 NORTH	

CITY: HYRUM	COUNTY: CACHE	STATE: UTAH
DRAWING NUMBER: ENB-P-FL153-MAP-001A		SHEET: 13 OF 14
		REVISION: 0

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DOMINION ENERGY ANS I D

Hyrum - FL-153 HDD
 4687-4699 S 1200 W | Hyrum, UT
 Terracon Project No. 61255162



Boring Log No. B-03

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 41.6464° Longitude: -111.8609°	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Water Content (%)	Atterberg Limits	
									LL-PL-PI	Percent Fines
1	ASPHALT, approximately 3.75 inches thick	Depth (Ft.) Elevation: 4583 (Ft.) 0.3 4582.69								
3	SANDY SILT WITH GRAVEL (ML), light tan to gray, medium stiff to stiff	4.5 4578.5			16	7-5-5-8 N=10				
	SILTY CLAY (CL-ML), light tan to gray, medium stiff to stiff, trace sand	5 4578.5			22	1-2-2-5 N=4	28.7	28-21-7	89.8	
					16	3-4-5-6 N=9				
					16	3-3-4-5 N=7				
	SANDY LEAN CLAY (CL), light tan to gray, medium stiff to stiff	12.5 4570.5								
	with oxidation staining									
	LEAN CLAY (CL), gray, very soft to stiff	17.5 4565.5			22	3-3-3-4 N=6	28.1		72.7	
					23	1-2-2-2 N=4				
					18	3-5-5-5 PP = 0.75 tsf				
					24	0-0-0-1 N=0	37.0	48-19-29	99.2	

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
 See Supporting Information for explanation of symbols and abbreviations.
 Elevation Reference: Elevations obtained using Google Earth

Water Level Observations
 Groundwater not observed while drilling

Drill Rig
 CME 55

Hammer Type
 Automatic

Driller
 South Slopes

Logged by
 VH

Boring Started
 08-14-2025

Boring Completed
 08-14-2025

Notes

Advancement Method
 Mud Rotary

Abandonment Method
 Boring backfilled with bentonite grout upon completion. Asphalt core patched with utilibond.

Facilities | Environmental | Geotechnical | Materials

Hyrum - FL-153 HDD
 4687-4699 S 1200 W | Hyrum, UT
 Terracon Project No. 61255162



Boring Log No. B-03

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 41.6464° Longitude: -111.8609°	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Water Content (%)	Atterberg Limits	
									LL-PL-PI	Percent Fines
	LEAN CLAY (CL), gray, very soft to stiff (continued)	Depth (Ft.) Elevation: 4583 (Ft.)								
			35		18	0-2-3 PP = 0.5 tsf				
			40		24	PP = 2.75 tsf	34.8		99.5	
	with trace sand seams									
			45		24	0-2-2-4 N=4				
			50		24	0-2-2-2 N=4				
			55		24	1-2-2-3 N=4				
			60		24	2-3-4-3 N=7				
			65		24	14-25-34-26 N=59				
5	SILTY SAND (SM), light brown, very dense	66.0 4517 67.0 4516								
Boring Terminated at 67 Feet										

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
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 Groundwater not observed while drilling

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Hammer Type
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 Mud Rotary

Abandonment Method
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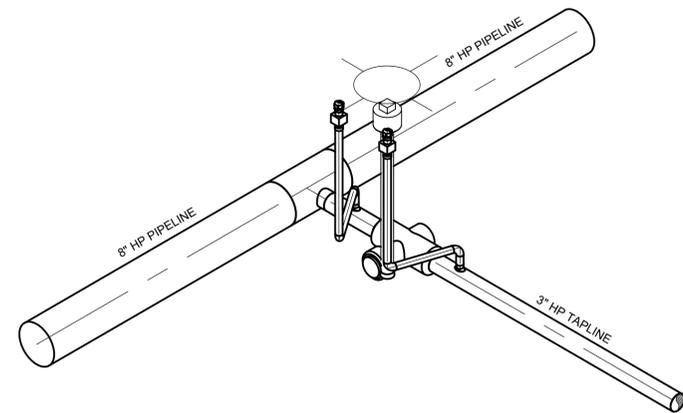
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ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS				ENGINEERING RECORD			LINE NUMBER:				
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY:	CHECKED BY:	PROJECT ENGR:	SURVEYOR:	ENGR MNGR:	CONSTR MNGR:	FL-153
ENB-P-FL153-MAP-001	0	8" HP TAPLINE FROM HY0003	100988.86	0	ISSUED FOR CONSTRUCTION	10/16/2025	RFR	JWD/DD	TERRACON (RR)	TERRACON (JD)	ANDREW ASPULND	ENSGN	WILL RADFORD	NA	INSTALL 450 LF & 475 LF OF 8" STEEL PIPE HDD TRENCHLESS CROSSING BORE LOGS 200 WEST NEAR 570 NORTH
SECTION: 32 T 11N R 1E ELEVATION: 4610.8 AT ENTRY LAT: LONG: SCALE: NA											CITY	COUNTY	STATE		
											HYRUM	CACHE	UTAH		
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											ENB-P-FL153-MAP-001A		14 OF 14	0	



VICINITY MAP



ISOMETRIC VIEW

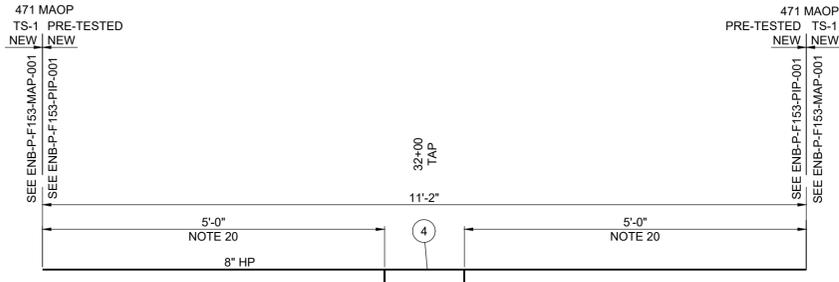
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NOTES

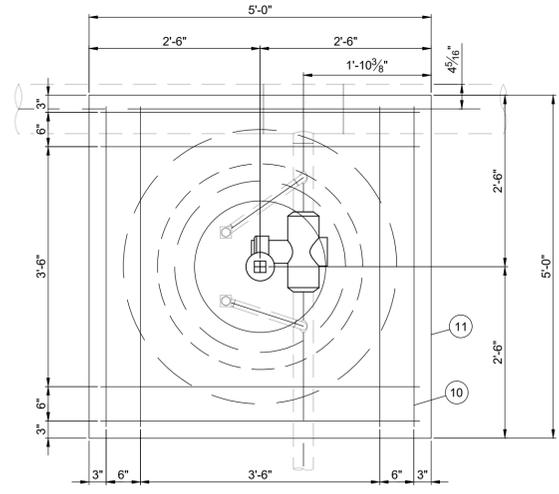
- ALL PIPING SHOWN IS NEW. DIMENSIONS INCLUDE WELD GAPS.
- IDENTIFIES GUIDE BARRED TEES.
- ANY MATERIAL SUBSTITUTION OR FIELD DESIGN CHANGES REQUIRE ENGINEERING APPROVAL.
- SEE SPECIFICATION 9-00-01 FOR MATERIAL NOTE NUMBERS LISTED.
- LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
- CORROSION CONTROL: BURIED FABRICATION PIPING SHALL BE CLEANED AND COATED PER SP 2-13-10. THE RECOMMENDED FIELD APPLIED COATING FOR BURIED FBE PIPING IS 2-PART EPOXY AND FOR BURIED ARO PIPING POWERCRETE J APPLIED COATING. COATING TRANSITIONS ARE TO BE APPLIED PER DE-TYP-GEN-PIP-001. SOIL TO AIR INTERFACES (TRANSITIONS FROM BELOW TO ABOVE GROUND) REQUIRE AN OVERCOAT OF TRENTON WAX TAPE NUMBER 2 APPLIED PER SP 2-13-11. ALL BURIED PIPING TO BE CATHODICALLY PROTECTED WITHIN ONE YEAR OF INSTALLATION. ABOVE GROUND PIPING IS TO BE COATED PER SP 2-13-11. CONSULT CORROSION ENGINEERING FOR PIPELINE COATING EQUIVALENTS.
- FIELD VERIFY WALL THICKNESS AT ALL TIE-IN LOCATIONS.
- ALL VALVES MUST HAVE APPROPRIATE LOCKING DEVICES.
- BALL VALVES - REMOVE ALL MANUFACTURER VENT PLUGS AND REPLACE WITH SMALL BALL VALVES.
- NOT USED
- NOT USED
- NOT USED
- ALL PIPE SHALL HAVE MILL TEST REPORTS (MTR'S) AS DEFINED WITHIN STANDARD PRACTICE 3-95-01.
- THE FORMULA USED TO CALCULATE THE MAWP FOR ALL STEEL PIPE AND NON-RATED FITTINGS IS $P = (2St/D) \times F \times E \times T$, WHERE F=0.5 FOR A CLASS 3 LOCATION, E=1, AND T=1
- 2" IN SERVICE FILLET WELDS SHALL RECEIVE 100% NDE
- PIPE IS DESIGNED TO WITHSTAND ANTICIPATED EXTERNAL PRESSURES AND LOADS FOLLOWING SP 1-01-02.
- USE FLOWABLE SAND UNDER HARD SURFACES (ASPHALT AND CONCRETE) AND ROADWAYS. SEE STANDARD PRACTICE 9-11-01 ON FLOWABLE SAND SHADING AND FLOWFILL BACKFILL REQUIREMENTS.
- GROUT BETWEEN RING AND COVER IF REQUIRED TO ESTABLISH GRADE.
- MAINTAIN 10" TO 12" SEPARATION BETWEEN BOTTOM OF H.D.P.E. PIPE SLEEVE AND PRESSURE PIPING.
- ACTUAL LENGTH TO BE DETERMINED BY THE WELD SHOP.

CONCRETE SPECIFICATIONS

- REINFORCING STEEL**
- REFERENCES
 - ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
 - ACI "DETAILING MANUAL"
 - CRSI MSP-1 "MANUAL OF STANDARD PRACTICE"
 - REINFORCING STEEL: ASTM A706 DEFORMED BARS OR ASTM A615 GRADE 60 DEFORMED BARS WITH AN ACTUAL YIELD STRENGTH NOT EXCEEDING 78,000 PSI AND A RATIO OF ACTUAL ULTIMATE TENSILE STRENGTH TO ACTUAL YIELD STRENGTH NOT LESS THAN 1.25.
 - PROVIDE MINIMUM CONCRETE COVER OVER REINFORCING STEEL AS FOLLOWS, UNLESS STATED OTHERWISE:
 - 3 INCHES FOR CONCRETE CAST AGAINST EARTH
 - 2 INCHES OTHERWISE
 - PROVIDE MINIMUM 1 1/2" CONCRETE COVER TO TOP OF FLATWORK IF APPLICABLE.
 - SECURE ALL REINFORCING, INCLUDING DOWELS, IN POSITION WITH BAR SUPPORTS PER CRSI BEFORE CONCRETE PLACEMENT.
- CONCRETE MATERIALS**
- PORTLAND CEMENT: ASTM C150 TYPE I/II.
 - FLY ASH: ASTM 618 CLASS C OR F INCLUDING TABLE 3 SPECIFICATIONS
 - A. CONTENT BY WEIGHT: 15% MINIMUM EXCEPT SLABS - 25% MAXIMUM
 - NORMAL WEIGHT AGGREGATES: ASTM C33, CLASS 3S OR GREATER
 - WATER: POTABLE, IN CONFORMANCE WITH ASTM C94
 - WATER-REDUCING ADMIXTURE: ASTM C494
 - AIR-ENTRAINING ADMIXTURE: ASTM C260
 - STRUCTURAL CONCRETE: ACI 318, CHAPTERS 3 AND 5.
 - CONCRETE SHALL DEVELOP THE FOLLOWING COMPRESSIVE STRENGTH WITHIN 28 DAYS FOR DRIVES, PADS AND FOOTINGS: 4000 PSI.
 - USE AIR-ENTRAINED CONCRETE OF 5%-7% AIR BY VOLUME.
 - CONCRETE SLUMP RANGE OF 3"-6".

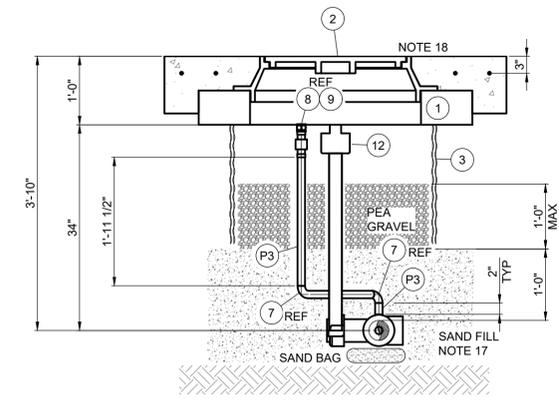


PLAN VIEW
PIPE LAYOUT



PLAN VIEW
CONCRETE, MAN HOLE & REBAR LAYOUT

TEST SPECIFICATIONS		MAOP DETERMINATION	
(STANDARD PRACTICE 1-90-01)		(STANDARD PRACTICE 1-97-04)	
MINIMUM TEST PRESSURE:	TS-1 (TEST SEGMENT) 1080 PSIG (24.6% SMYS)	DESIGN CLASS LOCATION:	3
MAXIMUM TEST PRESSURE:		DESIGN FACTOR (F):	F = 0.5
WATER	2220 PSIG 50.5% SMYS	TEST PRESSURE (MINIMUM):	1080 PSIG
NITROGEN	2197 PSIG 50% SMYS	TEST FACTOR:	1.5
CNG	N/A	MINIMUM DESIGN PRESSURES	
TEST DURATION MINIMUM:	SHOP: 1 HR FIELD: 1 HR	A. PIPE (NOTE 14)	2197 PSIG
		B. CALCULATED FITTINGS (NOTE 14)	2197 PSIG
		C. RATED ITEMS	1480 PSIG
FABRICATION SPECIFICATIONS		D. TEST PRESSURE (MIN) / TEST FACTOR:	
(STANDARD PRACTICE 2-10-01)		1080 PSIG / 1.5 =	
		720 PSIG	
WELDING REQUIREMENTS:	SEGMENT 1 API 1104	E. OTHER LIMITING FACTORS	
POST WELD HEAT TREATMENT	NO	FEEDERLINE MAOP	
		N/A	
WELD INSPECTION	VISUAL: 100% NDE: 100% > 2" STD. PRACTICE 3-15-01	SEGMENT MAOP (DESIGN) (MIN A, B, C, D)	
		720 PSIG	
		% SMYS @ SEGMENT MAOP	
		16.4%	
JOB SPECIFIC REQUIREMENTS		PIPELINE MAOP (OPERATING) (MIN A, B, C, D, E)	
LOW HYDROGEN WELD FOR IN SERVICE FILLET WELD		% SMYS @ PIPELINE MAOP	
		N/A	
REFER TO STANDARD PRACTICE 3-10-04 FOR IHP TEST			



SECTION A

ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS			ENGINEERING RECORD		
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DATE	BY	CHECK	DRAWN BY: J. JOHNSON
ENB-P-F153-MAP-001	0	TAPLINE TO HY0004 GATE STATION	100988.86	INSTALL 190 LF OF 2" FL-153 PIPELINE	0	10/09/2025	IAJ	IAT	CHECKED BY: I TORRES
ENB-M-IN0657-PIP-001	0	INDUSTRIAL METER SET IN0657							PROJECT ENGR: A. ASPLUND
									SURVEYOR: E. CLEMENCE
									ENGR MNGR: W. RADFORD
									CONSTR MNGR: D. FRANCIS
									MEAS & CTRLS:
									AUTOM ENGR:

			SECTION: 5, 32 T10, 11 N R 1 E ELEVATION: 4600' LAT: 41.64555 LONG: -111.86149 SCALE: 3/4" = 1'-0"		
			CITY: HYRUM COUNTY: CACHE STATE: UTAH	DRAWING NUMBER: ENB-P-F153-PIP-001	SHEET: 1 OF 1 REVISION: 0

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ENBRIDGE GAS-ANL-D

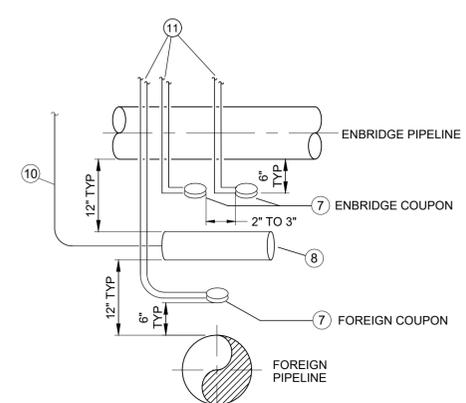
MATERIAL LIST

ITEM	REQ.	SIZE	DESCRIPTION	WH#
1	1	N/A	TEST STATION, 12 TERMINAL TESTOX TEST STATION HEAD	Q3901275
2	1	3" DIA	TEST STATION, 3" x 6'-0" COTT YELLOW CONDUIT PIPE MODEL 07-11306	Q3901276
3	1	N/A	POST MARKER 7'-0" POWDER COATED ALL SAFETY YELLOW	Q5314601
4	1	N/A	SIGN TRAPEZOID DEUM WARNING GAS PIPELINE	Q5621031
5	AS REQ	#10	WIRE, DIRECT BURIAL, CABLE AWG #10 SOLID WIRE THHN/THWN, BLACK - 500 FT SPOOL	Q6135010
6	2	N/A	FUSION CARTRIDGE, CADWELD MODEL CA-15	Q3504020
7	3	N/A	COUPON, MC MILLER R-FREE 10CM2 COUPON WITH TWIN #12 AWG STRANDED 25-FT GREEN THHN LEAD WIRES, MODEL COU100	Q3901272
8	AS REQ	N/A	REFERENCE CELL, BORIN STEL TH 2 WITH 50-FT #14 AWG RH+RHW STRANDED YELLOW WIRE, MODEL SRE-007-CJY	Q3901270
9	AS REQ	#10	WIRE, DIRECT BURIAL, CABLE AWG #10 SOLID WIRE THHN/THWN, WHITE- 500 FT SPOOL	Q6135011
10	AS REQ	#14	WIRE, DIRECT BURIAL, CABLE AWG #14 SOLID WIRE THHN/THWN, YELLOW- 500 FT SPOOL	Q6135008
11	AS REQ	#10	WIRE, DIRECT BURIAL, CABLE AWG #10 STRANDED WIRE THHN/THWN, GREEN - 500 FT SPOOL	Q3923105
12	NOTE 1	17 LB	ANODE, 17LB HIGH POTENTIAL MAGNESIUM (ASTM-B843 MTC ALLOY) PACKAGED IN COTTON BAG WITH 75% GYPSUM, 20% BENTONITE, & 5% SODIUM SULPHATE BACKFILL, MODEL 17D3 WITH A 10-FOOT SOLID #12 AWG BLACK THWN/THNN WIRE	Q3900200
13	1	N/A	SHUNT, 0.01 OHM YEL LOW COTT MODEL 08-12002	Q3901277
14	AS REQ	#8	WIRE, DIRECT BURIAL, CABLE AWG #8 STRANDED WIRE HMWPE, Black - 500 FT OR 1000-FT SPOOL	Q6135020 OR Q6135022
15	1	N/A	TAPE, 3M SCOTCH 130C LINERLESS RUBBER SPLICING TAPE, 1"X30' ROLL	Q5703010
16	1	N/A	TAPE, 3M SCOTCH SUPER 88 VINYL ELECTRICAL TAPE, 1"X36 YARD ROLL	Q3918800
17	2	N/A	COMPRESSION CONNECTION, BURNDY TYPE YC MODEL YC26C2	Q3901250
18	NOTE 1	32 LB	ANODE, 32LB HIGH POTENTIAL MAGNESIUM (ASTM-B843 MTC ALLOY) PACKAGED IN COTTON BAG WITH 75% GYPSUM, 20% BENTONITE, & 5% SODIUM SULPHATE BACKFILL, MODEL 32D5 WITH A 10-FOOT SOLID #12 AWG BLACK THWN/THNN WIRE	42420065

- LEGEND:**
- 1. FOREIGN LINE - #10 WHITE (OPTIONAL)
 - 2. FOREIGN COUPON - #10 GREEN
 - 3. ENBRIDGE COUPON - #10 GREEN (TWO WIRES)
 - 4. ENBRIDGE PIPELINE - #10 BLACK
 - 5. FOREIGN PIPELINE - #10 WHITE (OPTIONAL)
 - 6. STATIONARY REFERENCE CELL - #14 YELLOW
 - 7. ENBRIDGE COUPON - #10 GREEN (TWO WIRES)
 - 8. ENBRIDGE LINE #12 - #10 BLACK
 - 9. FOREIGN ANODES - #8 WIRE
 - 10. NOT USED
 - 11. NOT USED
 - 12. ENBRIDGE ANODES - #8 WIRE

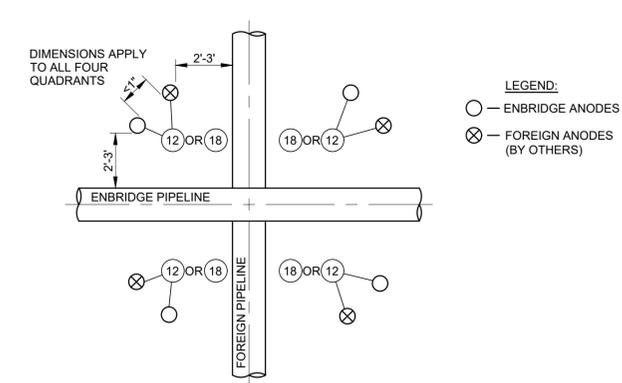
TEST HEAD TERMINATIONS 1

ENBRIDGE GAS TECHNICIAN TO CONNECT WIRES TO TERMINALS NOTE 8 & 9



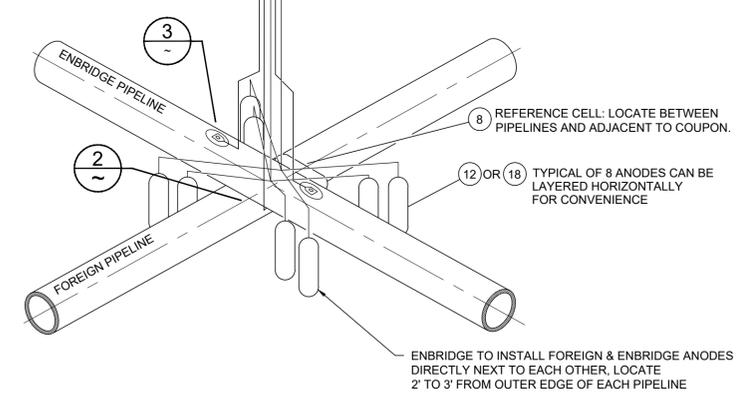
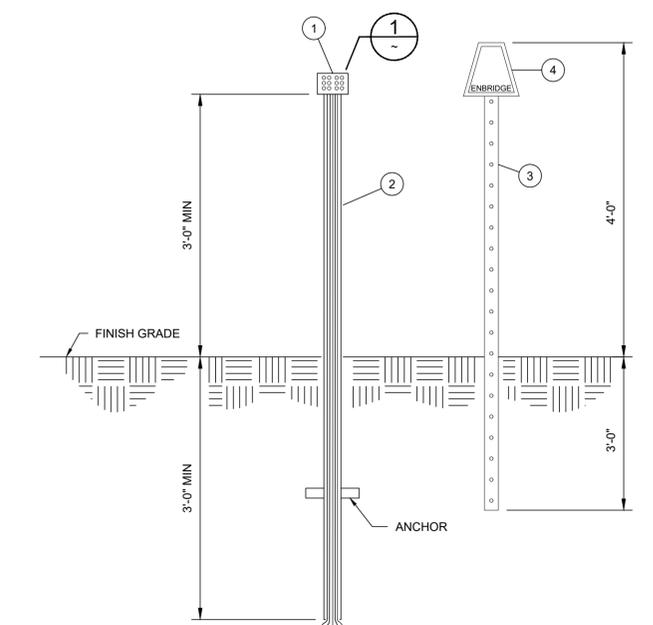
COUPONS & REFERENCE CELL DETAIL 2

AREA BETWEEN PIPELINES NOTE 5



ANODE CONFIGURATION DETAIL 3

PLAN VIEW - ENBRIDGE AND FOREIGN ANODES NOTE 4



ISOMETRIC VIEW

- NOTES**
- CONTRACTOR:**
- ACTUAL NUMBER OF ANODES AND SIZE VARIES BY DESIGN
 - INSTALL PER ENBRIDGE STANDARD PRACTICES:
 - 7-00-01 - GENERAL CORROSION CONTROL PROCEDURES
 - 7-10-01 - DESIGNING CATHODIC SYSTEMS
 - 7-10-02 - CADWELD AND CADWELD PLUS PROCEDURE
 - 7-20-01 - INSTALLING GALVANIC ANODES FOR CATHODIC PROTECTION OF BURIED PIPELINES
 - 7-40-03 - TESTING FOR AND MITIGATING DC INTERFERENCE ON PIPELINES
 - 2-13-10 - SURFACE PREPARATION AND PROTECTIVE COATINGS FOR BURIED PIPELINE SYSTEMS
 - ABOVE GRADE MATERIALS TO BE INSTALLED OUTSIDE HARD SURFACE OF ROAD.
 - SEE ENB-STD-COR-COR-002 DETAIL 3 FOR PLACING CABLES IN CONDUIT WHEN TEST STATION IS PLACED 5- FEET OR MORE AWAY FROM THE PIPELINE.
 - ANODE INSTALLATION:
 - ATTACH ANODE GROUPS (FOUR PER PIPELINE) AS SHOWN IN ENB-STD- COR-COR-002 DETAIL 5.
 - ANODES INCLUDE AN ATTACHED LEAD WIRE USED FOR INSTALLATION.
 - REMOVE ANODE FROM PLASTIC PACKAGING BEFORE INSTALLATION.
 - ENSURE ANODES ARE NOT IN CONTACT WITH ANY OTHER BELOW GRADE STRUCTURES.
 - SATURATE EACH ANODE WITH A MINIMUM OF FIVE GALLONS OF WATER AFTER BACKFILLING AND COMPACTION 6" ABOVE ANODE.
 - WHEN POSSIBLE; PLACE ANODES WITHIN MOIST LOAM AND CLAY SOIL. AVOID PLACEMENT OF ANODES WITHIN DRY SAND AND DO NOT PLACE WITHIN GRAVEL.
 - COUPONS AND REFERENCE CELL INSTALLATION:
 - COUPONS INCLUDE AN ATTACHED LEAD WIRE; ADDITIONAL LEAD WIRE MAY BE REQUIRED AS COVERED WITHIN ITEM 11 WITHIN THE MATERIAL LIST.
 - REMOVE REFERENCE CELL FROM PACKAGING; SATURATE EACH REFERENCE CELL WITH A MINIMUM OF FIVE GALLONS OF WATER BEFORE BACKFILLING.
 - COUPONS ARE TO BE INSTALLED A MINIMUM OF 12" FROM THE PIPELINE AND 6" FROM REFERENCE CELL.
 - BACKFILL WITH 1" MINUS SOIL AND PACK NATIVE SOIL A MINIMUM OF 6" AROUND COUPONS AND THE REFERENCE CELL TO ENSURE ACCURATE READINGS.
 - REFERENCE CELLS TO BE INSTALLED WITH A MINIMUM OF 6" VERTICAL DISTANCE FROM PIPELINE
- ENBRIDGE CORROSION TECHNICIAN:**
- CONTACT FOREIGN PIPELINE TO COORDINATE PROJECT.
 - CREATE A PREVENTATIVE MAINTENANCE (PM) REPORT WITHIN THE DOT SYSTEM FOR COMMISSIONING.
 - INSTALL AND LABEL EACH WIRE WITHIN THE TEST STATION.
 - INSTALL SHUNT WITHIN TEST STATION HEAD.

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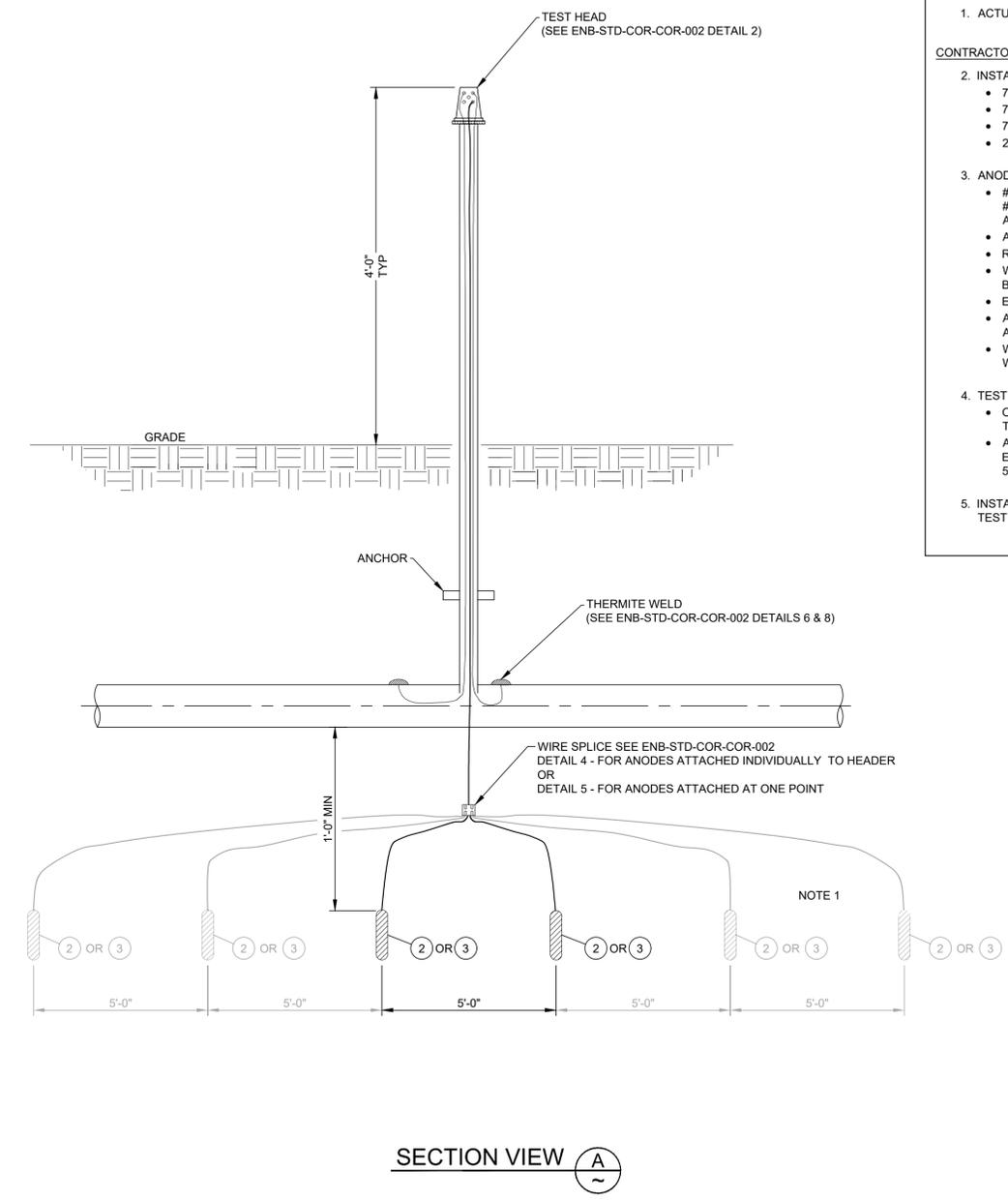
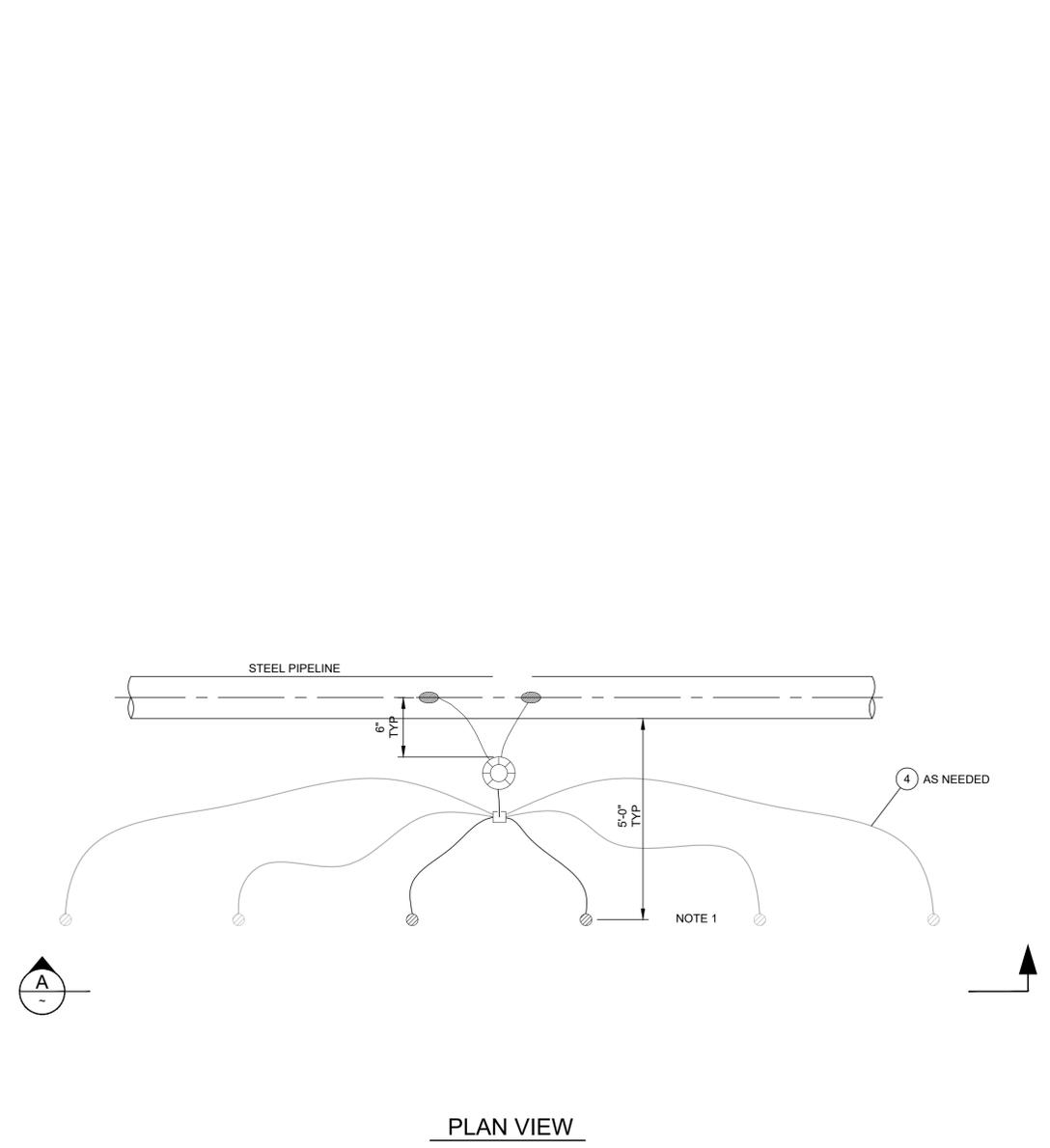
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ENB-STD-COR-COR-002	2	STANDARD CORROSION DETAILS			0	ISSUED FOR CONSTRUCTION - SUPERSEDES QGC-STD-COR-COR-009	5/21/2018	KJK	PHH	CHECKED BY: J. BERG	
					1	UPDATED NOTES AND MATERIAL LIST	04/06/21	PHH	EN	PROJECT ENGR: K. HOFFMANN	
					2	GENERAL UPDATES	04/06/22	PHH	KH	SURVEYOR: N/A	
					3	SUPERSEDES DE-STD-COR-COR-009 - ISSUED FOR CONSTRUCTION	03/03/2025	BJP	DGB	ENGR MNGR: K. COWAN	
										CONSTR MNGR: J. FOX	
										MEAS & CTRLS:	
										AUTOM ENGR:	

			SECTION: N/A T/N/A R/N/A ELEVATION: N/A LAT: N/A LONG: N/A SCALE: NONE		
			CITY VARIES COUNTY VARIES STATE VARIES		
LINE NUMBER: FACILITY: STANDARD DRAWING TITLE: CATHODIC PROTECTION PIPELINE CROSSING DESCRIPTION: ISOMETRIC VIEW, DETAILS & MATERIAL LIST ADDRESS:			DRAWING NUMBER: ENB-STD-COR-COR-009 SHEET: 1 OF 1 REVISION: 3		

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MATERIAL LIST				
ITEM #	QTY	SIZE	DESCRIPTION	WH #
1	1	N/A	TEST STATION, MARKER TEST STATION QGC 72-IN YELLOW, 6 TERMINALS, YELLOW HEAD	Q3903610
2	NOTE 1	17 LB	ANODE, 17LB HIGH POTENTIAL MAGNESIUM (ASTM-B843 M/C ALLOY) PACKAGED IN COTTON BAG WITH 75% GYPSUM, 20% BENTONITE, & 5% SODIUM SULPHATE BACKFILL, MODEL 17D3 WITH A 10-FOOT SOLID #12 AWG BLACK THW/THHN WIRE	Q3900200
3	NOTE 1	32 LB	ANODE, 32LB HIGH POTENTIAL MAGNESIUM (ASTM-B843 M/C ALLOY) PACKAGED IN COTTON BAG WITH 75% GYPSUM, 20% BENTONITE, & 5% SODIUM SULPHATE BACKFILL, MODEL 32D5 WITH A 10-FOOT SOLID #12 AWG BLACK THW/THHN WIRE	42420065
4	AS REQ	#12	WIRE, DIRECT BURIAL CABLE AWG #12 SOLID THW/THHN, BLACK	42488966

- NOTES**
- ACTUAL NUMBER AND SIZE OF ANODES VARIES BY DESIGN
- CONTRACTOR:**
- INSTALL PER ENBRIDGE STANDARD PRACTICES:
 - 7-00-01 - GENERAL CORROSION CONTROL PROCEDURES
 - 7-10-01 - DESIGNING CATHODIC SYSTEMS
 - 7-20-01 - INSTALLING GALVANIC ANODES FOR CATHODIC PROTECTION OF BURIED PIPELINES
 - 2-13-10 - SURFACE PREPARATION AND PROTECTIVE COATINGS FOR BURIED PIPELINE SYSTEMS
 - ANODE INSTALLATION:
 - #8 ANODE HEADER CABLE MAY BE LOOPED SO THERE ARE TWO ENDS IN THE TEST HEAD. ALTERNATIVELY, #8 ANODE HEADER CABLE MAY BE A SINGLE CABLE WITH ONE END IN THE TEST HEAD AND THE OTHER ATTACHED THE ANODE(S).
 - ANODES INCLUDE AN ATTACHED LEAD WIRE USED FOR INSTALLATION.
 - REMOVE ANODE FROM PLASTIC PACKAGING BEFORE INSTALLATION.
 - WHEN POSSIBLE, INSTALL ANODES HORIZONTALLY OR VERTICALLY WITH THE TOP 1 FOOT BELOW THE BOTTOM OF THE PIPELINE.
 - ENSURE ANODES ARE NOT IN CONTACT WITH ANY OTHER BELOW GRADE STRUCTURES.
 - AFTER BACKFILLING AND COMPACTING AT LEAST 6-INCHES AROUND EACH ANODE, SATURATE EACH ANODE WITH A MINIMUM OF FIVE GALLONS OF POTABLE WATER BEFORE FINAL BACKFILL.
 - WHEN POSSIBLE, PLACE ANODES WITHIN MOIST LOAM AND CLAY SOIL. AVOID PLACEMENT OF ANODES WITHIN DRY SAND AND DO NOT PLACE WITHIN GRAVEL.
 - TEST STATION INSTALLATION:
 - OFFSET TEST STATION 6" FROM NEAREST EDGE OF PIPELINE AND AT A DEPTH EQUAL TO THE CENTER OF THE PIPELINE.
 - ABOVE GRADE MATERIALS TO BE INSTALLED OUTSIDE HARD SURFACE OF ROAD. SEE DRAWING ENB-STD-COR-COR-002 DETAIL 3 FOR PLACING CABLES IN CONDUIT WHEN TEST STATION IS PLACED 5-FEET OR MORE AWAY FROM PIPELINE.
 - INSTALL AND LABEL EACH WIRE IN TEST STATION. AN ENBRIDGE EMPLOYEE WILL CONNECT THE WIRES TO THE TEST HEAD.



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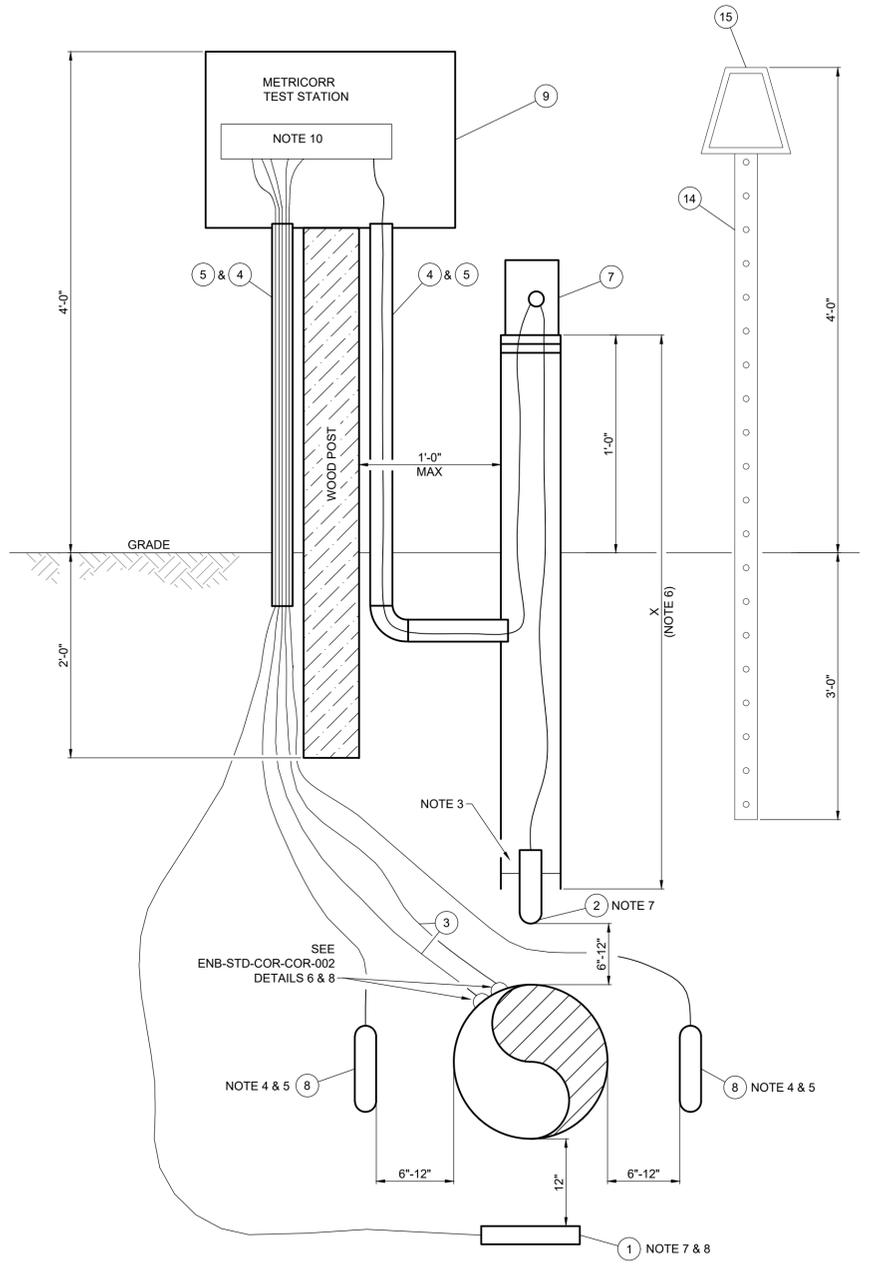
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ENB-STD-COR-COR-002	2	STANDARD CORROSION DETAILS			0	5/21/18	KJK	PHH	P HAHN	
					1	10/24/18	PHH	PHH	J BERG	
					2	12/4/18	PHH	PHH	T MARTUS	
					3	4/6/21	PHH	EN	N/A	
					4	4/6/22	PHH	KH	J FOX	
					5	1/22/25	PHH	KH	N/A	

			LINE NUMBER: FACILITY: TITLE: DESCRIPTION: ADDRESS:
SECTION: N/A	T/N/A	R/N/A	STANDARD DRAWING TEST STATION WITH GALVANIC ANODES PLAN, SECTION AND DETAILS
ELEVATION: N/A			CITY VARIES COUNTY VARIES STATE VARIES
LAT: N/A	LONG: N/A		DRAWING NUMBER ENB-STD-COR-COR-011
SCALE: NONE			SHEET 1 OF 1 REVISION 5

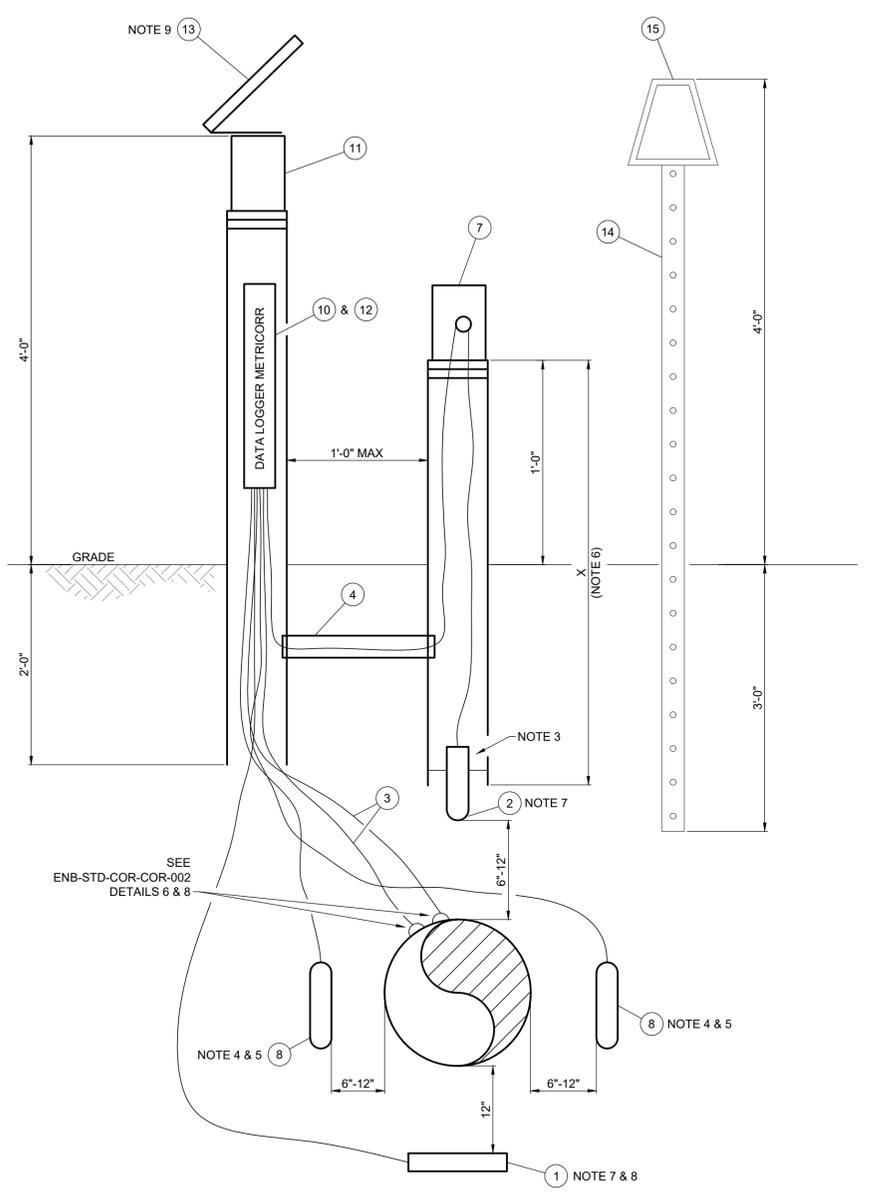
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ENBRIDGE GAS-AN-1D

MATERIAL LIST					
ITEM #	QTY	SIZE	DESCRIPTION	WH #	
1	1	N/A	REFERENCE CELL, BORIN STELTH 2 WITH 50-FT #14 AWG RHH-RHW STRANDED YELLOW WIRE, MODEL SRE-007-CUY	Q3901270	
2	1	N/A	REFERENCE CELL, BORIN STELTH 1 WITH 50-FT #14 AWG RHH-RHW STRANDED YELLOW WIRE, MODEL SRE-002-CFY	42492391	
3	AS REQ	#10	WIRE, DIRECT BURIAL CABLE AWG #10 SOLID WIRE THHN/THWN, BLACK - 500 FT SPOOL	Q6135010	
4	AS REQ	1"	CONDUIT, 1" SCHEDULE 40 PVC GREY PIPE	CONTRACTOR PROVIDED	
5	AS REQ	1"	CONDUIT MOUNTING BRACKETS FOR 1" SCHEDULE 40 PVC PIPE	CONTRACTOR PROVIDED	
6	1	4x4x10	PRESSURE TREATED WOOD POST	CONTRACTOR PROVIDED	
7	1	N/A	TEST STATION, COTT BIG FINK 3 TERMINAL WHITE TEST STATION HEAD FOR 3-INCH RISER WITH YELLOW 3-INCH DIAMETER RISER	42492392	
8	2	1cm2	METRICORR ER PROBE, ROD, FE, 1CM2 COUPON AREA, 500 MICROMETER THICKNESS, 12M CABLE LENGTH, ITEM 101370-00	42492938	
9	1	N/A	METRICORR MONITORING PACK, DATA LOGGER RMU & CELLULAR TRANSMITTER UNIT, SOLAR, JUNCTION BOX, NO PROBES FOR BIG BORE APPLICATIONS ITEM 101373	42492941	
10	1	N/A	METRICORR ICL MASTERLINK PACK, CELLULAR, ITEM 101222-00	42492937	
11	1	N/A	TEST STATION, COTT BIG FINK 3 TERMINAL YELLOW TEST STATION HEAD FOR 3-INCH RISER WITH WHITE 3-INCH DIAMETER RISER	42492393	
12	1	N/A	METRICORR BIG FINK MOUNTING CLIP SET, ITEM 101468-00	42492939	
13	1	N/A	METRICORR SOLAR POWER KIT FOR BIG FINK TOP YELLOW, ITEM 101450-00	42492940	
14	1	N/A	POST MARKER 7'-0" POWDER COATED ALL SAFETY YELLOW	Q5314601	
15	1	N/A	PIPELINE MARKER	Q5621031	



BIG BOX METRICORR TEST STATION



SLIMLINE METRICORR TEST STATION

- NOTES**
- INSTALL PER STANDARD PRACTICES:
 - 7-00-01 - GENERAL CORROSION CONTROL PROCEDURES
 - 7-10-01 - DESIGNING CATHODIC SYSTEMS
 - 7-10-02 - CADWELD AND CADWELD PLUS PROCEDURE
 - 2-13-10 - SURFACE PREPARATION AND PROTECTIVE COATINGS FOR BURIED PIPELINE SYSTEMS
 - ABOVE GRADE MATERIALS TO BE INSTALLED OUTSIDE HARD SURFACE OF ROAD.
 - SEE ENB-STD-COR-COR-002 DETAIL 3 FOR PLACING CABLES IN CONDUIT WHEN TEST STATION IS PLACED 5-FEET OR MORE AWAY FROM THE PIPELINE.
 - TUBE TO REMAIN EMPTY DOWN TO REFERENCE CELL.
 - ER PROBE WIRE MUST REMAIN THE LENGTH PROVIDED BY MANUFACTURER.
 - ER PROBE TO BE PLACED ON EITHER SIDE OF THE PIPE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. LABEL WIRES TO DISTINGUISH WHICH SIDE IT IS ON.
 - DIMENSION "X" TO BE FIELD DETERMINED AND ADDITIONAL LENGTH ADDED TO TUBE, AS NEEDED. DIMENSION "X" WILL BE WRITTEN ON THE INSIDE OF THE TUBE NEAR THE TEST HEAD.
 - LABEL REFERENCE CELL WIRES.
 - REFERENCE CELL MAY BE PLACED ABOVE PIPE, BUT AT LEAST 12" AWAY FROM ER PROBES OR OTHER REFERENCE CELL.
 - WHEN POSSIBLE, FACE SOLAR PANEL SOUTH.
 - FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR WIRE TERMINATION INSIDE OF TEST STATION.

REFERENCE DRAWINGS		WORK ORDERS		REVISIONS				ENGINEERING RECORD		
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DATE	BY	CHECK	DRAWN BY:	CHECKED BY:
ENB-STD-COR-COR-002	2	STANDARD DWG - CORROSION INSTALLATION DETAILS			0	05/31/22	PHH	KH	P. HAHN	KH
					1	09/20/22	PHH	KH	K. HOFFMANN	
					2	09/27/24	PHH		N/A	

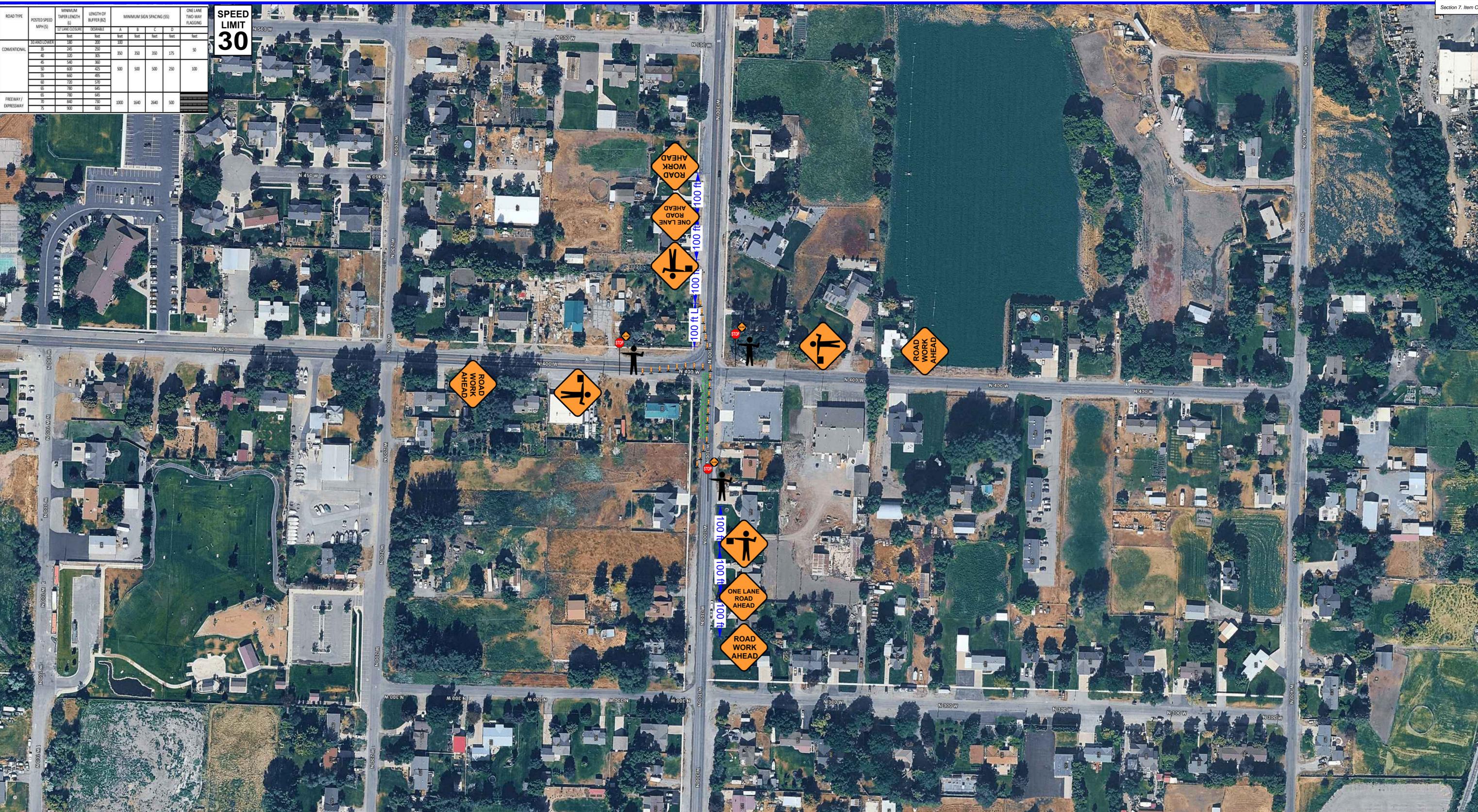
THE INFORMATION AND CONCEPTS CONTAINED IN THIS DOCUMENT ARE CONFIDENTIAL AND THE PROPERTY OF ENBRIDGE GAS AND/OR THE CLIENT IDENTIFIED. DUPLICATION OR USE OF THIS INFORMATION AND/OR CONSTRUCTION OF SYSTEMS BASED ON THIS DOCUMENT ARE STRICTLY PROHIBITED WITHOUT WRITTEN AUTHORIZATION FROM ENBRIDGE GAS.			SECTION: N/A T/N/A R/N/A ELEVATION: N/A LAT: N/A LONG: N/A SCALE: NONE	LINE NUMBER: FACILITY: STANDARD DRAWING TITLE: METRICORR ELECTRICAL RESISTANCE PROBE TEST STATIONS DESCRIPTION: ADDRESS:	CITY: N/A COUNTY: N/A STATE: N/A DRAWING NUMBER: ENB-STD-COR-COR-016 SHEET: 1 OF 1 REVISION: 2
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ISSUED FOR CONSTRUCTION

ROAD TYPE	POSTED SPEED (MPH) (S)	MINIMUM TAPER LENGTH (FT) (S)	MINIMUM TAPER LENGTH (FT) (D)	LENGTH OF BUFFER (BL) (SEPARABLE)	MINIMUM SIGN SPACING (SS) (A)	MINIMUM SIGN SPACING (SS) (B)	MINIMUM SIGN SPACING (SS) (C)	MINIMUM SIGN SPACING (SS) (D)	ONE LANE TWO-WAY FLAGGING
CONVENTIONAL	30 AND LOWER	150	150	100	100	100	100	100	50
	35	245	250	100	100	100	100	100	50
	40	330	335	100	100	100	100	100	50
	45	415	420	100	100	100	100	100	50
	50	500	505	100	100	100	100	100	50
	55	585	590	100	100	100	100	100	50
FREEMAY / EXPRESSWAY	60	720	725	100	100	100	100	100	50
	65	780	785	100	100	100	100	100	50
	70	840	845	100	100	100	100	100	50
75	900	905	100	100	100	100	100	50	

SPEED LIMIT 30



Project: Flare 300 North & 200 West, Hyrum
 Location: 41.6404, -111.8606
 Comments:

Date: 12/19/2025
 Author: Jenna Perryman - 7998566051
 TTCP:

Notes:
 -Sign spacing may be adjusted to fit field conditions.
 -Buffer space may be eliminated or modified to fit field conditions.
 -Roads with no posted speed limit have been designed for 25 mph.
 -Road Work Ahead signs shall be placed on all cross streets intersecting within the advance signing. The signs should be placed a minimum of 100 feet in advance of the intersection.

Legend

Work Area	Flagger
Vertical Panel	

PLANS ARE NOT TO SCALE



ROAD TYPE	POSTED SPEED (MPH)	MINIMUM TAPER LENGTH (ft)	LENGTH OF BUFFER (ft)	MINIMUM SIGN SPACING (ft)				ONE LANE TWO-WAY FLAGGING
		STANDARD	SEPARABLE	A	B	C	D	
CONVENTIONAL	30 AND LOWER	150	200	100	100	100	100	50
	35	245	250	100	100	100	100	50
	40	330	305	100	100	100	100	50
	45	415	380	100	100	100	100	50
	50	500	465	100	100	100	100	50
	55	585	550	100	100	100	100	50
FREEWAY / EXPRESSWAY	60	720	570	1000	1640	2640	500	
	65	780	645					
	70	840	710					
	75	900	800					

SPEED LIMIT 30



Project: Flare 300 North & 200 West, Hyrum
 Location: 41.6404, -111.8606
 Comments:

Date: 12/19/2025
 Author: Jenna Perryman - 7998566051
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 -Roads with no posted speed limit have been designed for 25 mph.
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Legend

Flagger	Work Area
Vertical Panel	

PLANS ARE NOT TO SCALE

Sheet 4 of 8

ROAD TYPE	POSTED SPEED (MPH) (S)	MINIMUM TAPER LENGTH (L) (21 LANE CLOSURES)	LENGTH OF BUFFER (BZ) (SEPARABLE)	MINIMUM SIGN SPACING (SS)					ONE LANE TWO-WAY FLAGGING
				A	B	C	D		
CONVENTIONAL	30 AND LOWER	150	100	100	100	100	100		
	35	245	250					50	
	40	330	305	350	350	350	175		
	45	540	360						
	50	630	425	500	500	500	250	100	
	55	660	495						
FREEMAY / EXPRESSWAY	60	720	570						
	65	780	645						
	70	840	720	1000	1640	2640	500		
75	900	800							

SPEED LIMIT 30



Project: Flare 300 North & 200 West, Hyrum
 Location: 41.6404, -111.8606
 Comments:

Date: 12/19/2025
 Author: Jenna Perryman - 7998566051
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Legend

Flagger	Work Area
Vertical Panel	

PLANS ARE NOT TO SCALE

Sheet 5 of 8

ROAD TYPE	POSTED SPEED (MPH) (S)	MINIMUM TAPER LENGTH (ft) (S)	LENGTH OF BUFFER (ft) (S)	MINIMUM SIGN SPACING (ft) (S)	ONE LANE TWO-WAY FLAGGING	
CONVENTIONAL	30 AND LOWER	150	100	100	100	100
	35	245	200	100	100	100
	40	330	305	350	350	175
	45	540	360	500	500	250
	50	630	425	500	500	300
	55	660	405	500	500	300
FREEMAN / EXPRESSWAY	65	720	570	1000	1640	2640
	70	780	645	1000	1640	2640
	75	840	720	1000	1640	2640

SPEED LIMIT 30



Project: Flare 300 North & 200 West, Hyrum
 Location: 41.6404, -111.8606
 Comments:

Date: 12/19/2025
 Author: Jenna Perryman - 7998566051
 TTCP:
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 -Roads with no posted speed limit have been designed for 25 mph.
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Legend

Flagger	Work Area
Vertical Panel	

PLANS ARE NOT TO SCALE

Sheet 6 of 8

ROAD TYPE	POSTED SPEED MPH (S)	MINIMUM TAPER LENGTH (L) FT (SEE NOTES)	LENGTH OF BUFFER (B) FEASIBLE	MINIMUM SIGN SPACING (SS)				ONE LANE TWO-WAY FLAGGING
				A	B	C	D	
CONVENTIONAL	30 AND LOWER	150	100	100	100	100	100	50
	35	245	200	100	100	100	100	50
	40	330	305	100	100	100	100	50
	45	540	360	100	100	100	100	50
	50	600	425	100	100	100	100	50
	55	660	490	100	100	100	100	50
FREEWAY / EXPRESSWAY	60	720	570	1000	1640	2640	500	
	65	780	645					
	70	840	720					
	75	900	800					

SPEED LIMIT 30



AWP Safety
801-627-1970
www.awpsafety.com

Project: Flare 300 North & 200 West, Hyrum
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Comments:

Date: 12/19/2025
Author: Jenna Perryman - 7998566051
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Legend

Flagger	Work Area
Vertical Panel	

PLANS ARE NOT TO SCALE

Sheet 7 of 8

ROAD TYPE	POSTED SPEED (MPH) (S)	MINIMUM TAPER LENGTH (ft) (T) (MIN. ADVANCE)	LENGTH OF BUFFER (ft) (B)				MINIMUM SIGN SPACING (ft) (S)				ONE LANE TWO-WAY FLAGGING
			DESEPARABLE	A	B	C	D	E	F	G	
CONVENTIONAL	30 AND LOWER	150	150	150	150	150	150	150	150	150	50
	35	245	250	250	250	250	250	250	250	250	50
	40	330	335	335	335	335	335	335	335	335	50
	45	415	420	420	420	420	420	420	420	420	50
	50	500	505	505	505	505	505	505	505	505	50
	55	585	590	590	590	590	590	590	590	590	50
FREEMAN / EXPRESSWAY	60	720	725	725	725	725	725	725	725	725	100
	65	780	785	785	785	785	785	785	785	785	100
	70	840	845	845	845	845	845	845	845	845	100
	75	900	905	905	905	905	905	905	905	905	100

SPEED LIMIT 30



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Legend

- Flagger
- Work Area
- Vertical Panel

PLANS ARE NOT TO SCALE

Sheet 8 of 8

**2025 PLANNING COMMISSION REVIEW
FEBRUARY 12, 2026**

REZONE:

SITE PLANS :

Wilcox Landscaping – 1673 Anvil Road, site plan amendment

Jesse Elsmore, Jardine Builders, LLC – 127 West Main Street, 2 identical two-story mixed-use buildings.

Floyd Faucette (Miller Companies) – 1836 West 4600 South, building addition to expand business.

Aldon Watkins, Blacksmith fork Vet Clinic – 16 East 6200 South, veterinary hospital building and site expansion.

Carlyle Gregor, Carlyle Machine - 1671 East 145 South, new 10,950 sq. ft. building to manufacture prototypes in the medical industry.

Bryan Jorgensen, Kilgore Companies - 410 North 800 East, previously constructed weir system.

MINI-SUBDIVISIONS :

Colter Leishman - 200 North 150 East, 3 lot single family residential.

OTHER:

Sunray Properties LLC – an amendment to Hyrum city Code Title 17 Zoning.

Hyrum City – an amendment to Hyrum City Code Title 17 Zoning Fence Regulations.

Hyrum City – An update to section 7 of the Construction Standards- Hyrum city General Requirements and Specifications for Electrical Installations.

Hyrum City - design standards and specifications for all public landscaping to be used in all city-owned parks and facilities.

Hyrum City – an amendment to Hyrum City Code Title 17 Zoning, Chapter 70 Fence Regulations to establish fence and wall types and height standards.

Hyrum City – an ordinance establishing a temporary land use regulation governing short-term rentals and similar transient housing uses pursuant to Utah Code 10-9a-504.

Hyrum City – an ordinance amending chapter 12 Planning Commission of Title 17 (the zoning ordinance) of the Hyrum City Municipal Code to establish term limits and adding an additional alternate member, and relocating and creating Title 2 administration, chapter 95 Planning.

Daren Orme, Accessory building exception – 674 East 1250 South, shed within side yard setbacks.

Hyrum City – Ordinance amending Title 17 Zoning of the Hyrum City Municipal Code to create Chapter 17.62 Short-term Rentals.

Hyrum City – ordinance amending Title 17 Zoning of the Hyrum City Municipal Code to create Chapter 17.63 Home-based Microschool and Micro-education Entity.

Hyrum City – ordinance amending Title 17 Zoning of the Hyrum City Municipal Code 17.04.070 Definitions to establish a maximum front yard setback.

Hyrum City – amendment to the Hyrum City General Plan to include Chapter 10, Hyrum City Water Use and Preservation.

Scott Johnson – 1394 East 150 South, storage pod/container as accessory building.

CONDITIONAL USE PERMITS:

Heather Godfrey, Sunrise Properties – 220 North Center Street, The Paddle Pickleball LLC.

Cal Larson, TimberHaus Designs – 19 North 100 West, an artisan wood shop in the commercial Zone (C-2).

Brad Lee, Hit It Hard Gym – 220 North Center Street, an indoor gym in the Light Manufacturing Zone (M-1).

Aldon Watkins, Blacksmith Fork Vet Clinic – 16 East 6200 South, veterinary hospital building.

SUBDIVISIONS :

Ian Peterson - 705 East 1050 South – 21 lot
 Danny Swett – 740 East 1100 South – 17 lot

SIGNS APPROVED :

PUD:

Todd Horman - 470 West 400 North, concept plan for a planned unit development consisting of 19 single and twin-family homes.

UPDATE ON PREVIOUSLY APPROVED SUBDIVISIONS :

Scenic Mountain – Phase 2 about 50% complete

Rolling Hills – Phase 10 about 92% complete

Mountain View Estates South- Phase 5 100%

Mt Sterling Farms- Phase 4 about 100% complete

Hidden Valley – Phase 1 100% complete

Hidden Valley- Phase 2 about 82% complete

Blacksmith Fork Industrial Park – 68% complete

Sunset Fields – 0%

Harvest Valley Court – 0%

Canyon Estate Phase 6 – 100%

Mountain View Phase 6 – 0%