SCOPE OF WORK
LORAIN 13F PROJECT
Multiple Orphan Well Sites
Lorain County, Various Townships

PROJECT DESCRIPTION

FEDERAL FUNDED PROJECT:

Note: This project will be FEDERALLY FUNDED. Contractors/subcontractors shall comply with additional requirements related to this project being federally funded.

The Lorain 13F project shall include the following wells:

Wells to be plugged per the individual plugging plan.

Well Name	API Number	County	Township	Ingress/Egress Latitude, Longitude	Wellhead Latitude, Longitude
Wise CW #6	34-093-2-0188-00-00	Lorain	Grafton	41.233366, -82.003223	41.233476, -82.001774
Schaeffer Charles A. #1	34-093-2-0850-00-00	Lorain	Grafton	41.237550, -82.005926	41.239406, -82.007490
Sears Russell F. #1	34-093-6-0277-00-00	Lorain	Grafton	41.259937, -81.989817	41.256357, -81.990071
Wise Geo #1	34-093-2-0142-00-00	Lorain	Grafton	41.242559, -82.022810	41.242656, -82.020478

PROJECT SCOPE OF WORK:

This project includes mobilization, access and well site development, drilling or cleaning out of and plugging of four (4) Orphan Wells, storage and disposal of all materials generated during the plugging of the well, decommissioning, removal, storage and disposal of all casing, tubing, well and production equipment and affiliated lines and restoration of all areas disturbed during this project.

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GENERAL SCOPE OF WORK

The Contractor, the Contractor's agents, representatives, and subcontractors shall perform this Plugging Project in accordance with Ohio Revised Code 1509, Ohio Administrative Code Chap. 1501:9-11 and 1501:9-12, the Agreement, and in accordance with the following documents that are attached hereto and made a part hereof:

1. Project Description;
2. General Scope of Work;
3. Davis-Bacon Wage Requirements;
4. General Conditions;
5. General Specifications;
6. Sequence of Work;
7. Well Description;
8. Plugging Plan;
9. Detailed Specifications;
10. Appendix I – Ohio One-Call;
11. Appendix II – Well Records;
12. Appendix III – Permits & Permit Conditions;
13. Appendix IV – Davis-Bacon Wage Determination;
14. Quantity Sheet;
15. & Drawing Plan Set.

Subject to the Contractor's compliance with this Scope of Work, Contractor is solely responsible for and has control over all plugging and reclamation construction means, methods, manners, techniques, sequences, and procedures, for safety precautions and programs in connection with the Plugging Project, and for coordinating all portions of the Plugging Project.

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GENERAL CONDITIONS

PART 1: OHIO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS

This Lorain 13F Project (Project) references the Ohio Department of Transportation (ODOT) Construction and Material Specifications (ODOT CMS). Any reference to these specifications is to ODOT's most current version of the specifications. The ODOT CMS can be found at https://www.dot.state.oh.us/Divisions/ConstructionMgt/OnlineDocs/Pages/2023-Online-Spec-Book.aspx

PART 2: PRE-SITE MEETING

The Contractor or a Contractor's representative must attend the pre-site meeting. A contractor representative may only be a representative for one DAS pre-qualified contractor on a project.

Failure to attend the pre-site meeting is grounds for the Division to reject the Contractor's Offer. A Contractor or Contractor's representative must be present for the entire pre-site meeting to be considered in attendance.

The Ohio Department of Natural Resources, Division of Oil & Gas Resources Management (Division) intends to begin the pre-site meeting on time. At the meeting, the Division will circulate and collect attendance sign-in forms to all contractors or contractors' representatives present. Only those contractors or contractors' representatives in attendance throughout the pre-site meeting, including the discussion of the Scope of Work, will be considered present for the pre-site meeting.

PART 3: MODIFICATIONS TO THE SCOPE OF WORK PRIOR TO AWARD

The Scope of Work may only be altered by written modification. The Division may issue an Amendment to the Scope of Work and will provide notification of the Amendment by email to all Department of Administrative Services (DAS) pre-qualified Contractors. Each Contractor is responsible for logging into OhioBuys and submitting an offer that is responsive to all Amendments issued. All offers submitted prior to an Amendment being issued shall become null/void and not be considered in the opening. All Amendments shall become part of the Scope of Work.

Any interpretation or clarification of the Scope of Work made by any person other than the Division, or in any manner other than a written Amendment, is not binding and the Contractor cannot rely upon any such interpretation or clarification.

The Contractor cannot, at any time after the award of the Scope of Work, be compensated for any issue with the Scope of Work, including alleging insufficient data, incomplete, ambiguous, conflicting, or erroneous language, or incorrectly assumed conditions regarding the nature or character of the work.

PART 4: PERMIT AND INSPECTION REQUIREMENTS

The Division will obtain and pay for all building and U.S. Army Corps of Engineers permits unless otherwise specified in the Detailed Specifications. However, the Contractor shall determine and include in the Contractor's Offer Sheet the costs required to obtain and pay for all other requirements by the applicable governmental agencies; including but not limited to, all certificates of inspection/operation, guarantees, licenses, etc. required to complete the work as described within this document. The contractor shall follow all applicable laws and permit requirements, the Division will not be held responsible for damages that result from violation of laws or permits.

PART 5: INSTRUCTIONS FOR PREPARING AN OFFER

A Contractor's offer must be submitted online through **OhioBuys**. (https://procure.ohio.gov/bidders-and-suppliers). **All offers submitted prior to an Amendment being issued shall automatically become null/void and not be considered in the opening.**

Offers shall include labor, equipment, and material cost plus a proportionate share of the Contractor's overhead costs, other indirect costs, and anticipated profit. The offer must be mathematically and materially balanced. A "mathematically unbalanced offer" is an offer containing lump sum or unit price items that do not include reasonable labor, equipment, and material costs plus a reasonable proportionate share of the Contractor's overhead costs, other indirect costs, and anticipated profit. A mathematically unbalanced offer typically contains token prices (i.e. $1 prices), front loadings, or prices with large variations from the engineer's estimate. A "materially unbalanced offer" is a mathematically unbalanced offer that will not result in the lowest ultimate cost to the Division.

During the Division's initial review of offers, if the Division finds an offer may be mathematically unbalanced, the Contractor may be required to submit proof of the mathematically unbalanced line items' proposed cost within 24 hours after notification from the Division. At a minimum, a Contractor may be required to submit copies of all material/rental quotes, intended labor costs (hours/rates), and contract agreements with subcontractors to support their offer. If the Contractor fails to submit the required proof, the Contractor's offer shall be deemed withdrawn from consideration. The Division shall evaluate the documentation and may verify quotes with vendors. After a review of the documentation, the Division will reject any offer it determines is mathematically and materially unbalanced.

A DAS pre-qualified Contractor shall not submit offers on a project in which the contractor has committed as a subcontractor, who will perform more that 50 percent of the project as a subcontractor, to another DAS pre-qualified Contractor submitting an offer on the same project. Any DAS pre-qualified Contractor who submits an offer and will not self-perform more than 50 percent of the work shall self-report to the Project Engineer in writing prior to award the project's subcontractors and each subcontractor's percent award of the project. Any DAS pre-qualified Contractor who submits an offer shall supply upon request to the Project Engineer the project's subcontractors and each subcontractor's percent award of the project. Substitution of subcontractors after award shall be per the DAS contract. A DAS pre-qualified Contractor who will perform more than 50 percent of the work on a project as a subcontractor will have this project considered when reviewing whether the Contractor is behind schedule for awarding work. Additionally, when the Division is considering if a Contractor is behind schedule, all Orphan Well Program work and deadlines

will be considered (Construction Manager at Risk subconsultant work and Landowner Pass-through Payment Program).

A Contractor shall maintain an up-to-date schedule on file with the Division that sets forth dates by which the Contractor will plug each well that the Division previously awarded to the Contractor. A Contractor shall update their work schedule as often as necessary to maintain a current schedule with the Division. To be awarded new contracts, the Contractor must be able to complete all previously awarded work within the due dates set in each contract with the Division. Upon request, a Contractor shall provide an up-to-date schedule to the Division that reflects when all awarded work will be completed.

Please note that a Contractor's offer must be submitted online through OhioBuys.

1. Refer to the Scope of Work posted in OhioBuys with this solicitation.
2. **Only Contractors who are pre-qualified to offer this service on an existing State Contract beginning with CSP900-922 (DAS Index No. MAC110) may respond to this solicitation.** All CSP900922 Contract Terms & Conditions apply to this solicitation. No additional terms and conditions will be accepted. The Division will reject Offers from any Contractor that is not pre-qualified.
3. Completion of the grid is required and will be considered the response for evaluation. No outside or additional documentation will be considered.
4. Fixed prices will be automatically added to Contractor's proposals when shown. Contractors are not to enter pricing for fixed price items.
5. Confirm that your offer has been successfully imported into OhioBuys for all items before submitting. Incomplete offers and/or attachments will not be evaluated.
6. The most recent offer submitted in OhioBuys will be the offer that is evaluated, all prior offers submitted in the same solicitation will not be evaluated.
7. **The Contractor or Contractor's representative must attend the pre-site meeting.** Failure to attend the site meeting is grounds for the Division to reject the Contractor's Offer.

PART 6: DIVISION'S OFFER SELECTION

Except when the Division rejects an offer, the Division will select the lowest offer submitted to the Division. The Division may reject an offer if any one of the following applies to the Contractor's offer:

- Is not submitted online through **OhioBuys**;
- Fixed reference prices and/or any other imported information is incorrectly and/or not imported into **OhioBuys**;
- Is conditional;
- Is a mathematically unbalanced offer and a materially unbalanced offer;
- Is behind schedule on other projects with the Division;
- Is not able to schedule this project within the contract due dates.
- Is committed to perform more than 50 percent of the work on this project as a subcontractor to another DAS pre-qualified Contractor on the project;
- Is a prime Contractor who has more than 50 percent of the work committed by a subcontractor who also submitted an offer as prime Contractor; or
- Failed to identify prior to award project subcontractors and their percent award upon request.

PART 7: WITHDRAW OF OFFERS

At any time prior to the opening of the Offers, a Contractor may submit a written request to the Division, at the location where the Offers are received, to withdraw its Offer. The request to withdraw the Offer must

be signed by the person who executed the Offer.

PART 8: EFFECTIVE DATE AND TERM

The effective date of this Project is the date of the Letter to Proceed that is sent to the Contractor. The Contractor must start work at the project site within three (3) months of the end of the contract and the Contractor shall continue diligently working toward the completion of the project once work has commenced. The Project must be completed **fifteen (15) months after the effective date** or by June 30, 2027, whichever is sooner. If the Project terminates on June 30, 2027 and the Project is not completed, the Scope of Work may be renewed on the same terms if the Division sends written notice to the Contractor. Failure to complete work by the contract due dates may result in the suspension or termination of the contract and may result in the Division pursuing the Suspension and Termination and/or the Contract Remedies sections defined in the MAC 110 contract.

PART 9: TERMINATION AT WILL

The Division may terminate this Scope of Work without cause. Any payment due to the Contractor at the time of termination by the Division shall be paid to the Contractor on a pro rata basis.

PART 10: RELATIONSHIP BETWEEN COMPONENTS OF THE SCOPE OF WORK

This Scope of Work includes drawings that are duplicates of drawings on file with the Division. The Scope of Work documents are complementary. All sections of the Scope of Work are binding. The titles and headings in the Scope of Work are for reference and in no way affect the interpretation of the provisions of the Scope of Work. Further, if any part of this Scope of Work is found to be unenforceable, no such event will affect the enforceability or applicability of any other part of the Scope of Work.

If a conflict between the drawings and the specifications arises, the Contractor must notify the Division. In the event of a conflict of any provision in the Scope of Work the order of priority within the Scope of Work is as follows: Drawings, Detailed Specifications, General Specifications, Plugging Plan, and Sequence of Work.

PART 11: CONTRACTOR'S RESPONSIBILITY FOR SUBCONTRACTORS

The Contractor is responsible for the conduct of its subcontractors and for persons its subcontractors directly or indirectly employ.

PART 12: USE OF DOMESTIC STEEL AND BUY AMERICAN ACT (For Federally Funded Projects only)

For infrastructure projects that utilize federal funds, the contractor and subcontractors shall comply with Executive Order No. 14005 Ensuring the Future Is Made in All of America by All of America's Workers; the Code of Federal Regulations Title 2, Subtitle A, Chapter I, Part 184; U.S.C. 52.225-11 Buy American-Construction Materials under Trade Agreements (Nov 2023) clause; and Buy America Preferences for Infrastructure Projects and the Infrastructure and Jobs Act (Public Law 117-58) Division D, Title IX, Subtitle A, Part I, Buy America Sourcing Requirements. The Contractor and subcontractors are required by law to supply domestically produced iron or steel products, manufactured products, and construction materials such as non-ferrous metals (steel, iron, aluminum), plastics, PVC pipe, glass, fiber optic cable, optical fiber, engineered wood, and lumber products for infrastructure on all projects funded in whole or in part with federal funds. The Infrastructure, Investment, and Jobs Act (Public Law 117-58) Division D, Title IX, Subtitle A, Part I, Buy America Sourcing Requirements exempts cement, cementitious materials, aggregates such as stone, sand, gravel, or aggregate binding agents or additives from these requirements.

PART 13: STANDARDS

If the Division identifies a "standard" by reference to manufacturer and/or model number, all offers will be evaluated to ensure that the identified standard is used. The Division will not consider an offer in which a substitution for the standard is offered. After the Letter to Proceed is issued, the Contractor may submit a written proposal for a substitution of a standard.

PART 14: SUBSTITUTIONS DURING THE PROJECT

After the Letter to Proceed is issued, the Contractor may offer substitutions for the standards set forth in the Scope of Work. The decision to allow substitution is solely within the discretion of the Division, which will consider, among other factors, availability, time of delivery, the aesthetic value of the proposed substitution, general differences in the knowledge of the product, service history, quality, efficiency, performance, and architectural, engineering, inspection, testing and administrative expenses. Any changes to the Offer price and/or Scope or Work must be memorialized by a Field Order or Change Order, as applicable. The savings in cost in allowing any substitutions during the Project will be solely to the benefit of the Division.

PART 15: QUANTITIES OF WORK

15.1 Unit Price Items

For items in the Offer that require a unit price, the quantities listed on the Offer Sheet are an approximation and are to be used only for the comparison of offers. The scheduled quantities may be increased or decreased without invalidating or altering the Offer and will be considered within the Scope of Work.

Payments for unit price items will be made to the Contractor for actual quantities of work performed and materials furnished in accordance with the Scope of Work; however, the Contractor may not exceed the unit quantities shown on the Offer Sheet without prior written approval of the Division through a Field Order. Even if the Contractor determines that additional unit priced quantities (above and beyond the original Offer Sheet quantity) are required to meet plan and/or specification dimensions, the Contractor must not exceed the Offer Sheet quantities without prior written approval of the Division. The Division will not pay for quantities above and beyond the Offer Sheet quantity without prior written approval of the Division.

15.2 Lump Sum Items

For items in the Offer Sheet that require a lump sum price, the Division will not pay for work, materials, or equipment that exceeds the amount provided by the Contractor on the Offer Sheet. The lump sum price on the Offer Sheet must include all work, materials, and equipment necessary to properly complete the Project.

15.3 Additional/Contingency Items

The contingency items set forth in the Offer Sheet are not projected as necessary to complete the Project. Rather, the contingency items will first be used when unforeseen work arises, and the Division determines the contingency item is applicable. To be compensated for contingency items, the Contractor must have a written Field Order from the Division authorizing the contingency item in a specified quantity. Use of contingency items will not require the execution of a Change Order. The Contractor must be prepared to supply all items identified in the contingency specifications for use on this Project.

PART 16: OMISSIONS IN THE SCOPE OF WORK

If the Contractor notices an error or omission in the Scope of Work during performance of the Project, the Contractor shall immediately notify the Division of such omission or error and shall not proceed with the Project until directed by the Division. Any work performed by the Contractor prior to clarification by the Division may not be entitled to compensation.

PART 17: INTERPRETATIONS CONCERNING THE SCOPE OF WORK

During the Project, if a question arises on the Scope of Work, the labor or materials to be supplied, or costs potentially exceeding the Contractor's Offer, such questions must, prior to the work being performed, be submitted to the Division for a determination. A Division determination will be issued in writing and any work performed prior to such a determination will be performed at no cost to the Division. The Division will also begin executing a Change Order, when appropriate.

If the Division receives a written question concerning the Project, the Division will determine if the work must be performed by the Contractor at no increase in price to the Scope of Work. If so, the Division will issue a Field Order setting forth the Division's determination. Each Field Order issued must be signed by the Contractor acknowledging receipt. If the Contractor disagrees with the Division's interpretation in a Field Order, the Contractor may submit a protest by certified mail to the Chief within ten (10) days following the date of issuance of the protested Field Order. However, the Contractor must immediately proceed with the instructions given in the issued Field Order.

If, upon receipt of a written protest of a Field Order, the Division determines that the work referred to in the protest is outside the Scope of Work, the Division will not issue a Field Order and instead will issue a Change Order.

Field Orders, which are interpretations of the requirements of the Scope of Work, may be issued by the Division at any time during the performance of the work. The Contractor, at all times, is required to immediately execute the instructions of all issued Field Orders, which includes acknowledgment and signature of issued Field Order documents.

PART 18: CHANGES IN THE SCOPE OF WORK

18.1 The Division's Right to Require Change Orders

The Division may issue a Change Order directing the Contractor to immediately perform extra work that differs from the Scope of Work. The Contractor shall perform the work as directed. The changes in the work will consist of additions, deletions, or other revisions. When the Contractor performs the work, the Offer amount will be adjusted as described within this Scope of Work.

If the Contractor protests the issuance of the Change Order, any such protest has no bearing on any work requirements arising out of the Change Order in that the Contractor must immediately perform the work required in the Change Order so as not to delay the progress of the work at the Project.

18.2 Unauthorized Work

Only work performed under the Scope of Work or work authorized by a Field Order or a Change Order is eligible for compensation. If the Contractor performs any work or purchases any materials without an approved, applicable Field Order or Change Order, such work performed, and purchases made are within the Scope of Work at no additional cost to the Division.

18.3 Contractor's May Request Change Orders

If the Contractor determines that the Scope of Work does not address conditions at the Project, the Contractor may provide written notice to the Division of the conditions and request a Change Order. No oral communications will be acceptable as justification for a Change Order.

Fishing/milling tools and associated appurtenances submitted as Change Order items shall be at cost. No markup on these items will be accepted by the Division.

18.4 Determining Price of a Proposed Change Order

The following methods will be used to determine the price of a proposed Change Order:

a. If a Change Order involves items not listed on the Offer Sheet, the Contractor must present the Division with labor and/or material price quotes for the proposed Change Order item(s). The Division may request these quotes either in unit prices or as lump sums; or

b. If the work involved in the Change Order is not definable, the Division may request the work be performed on a time and material basis and include a maximum amount to be paid for the work. The method will be based on unit prices for both labor and materials agreed to by the Division prior to the Contractor commencing the work.

18.5 Disputes Regarding Change Order Prices

If the Contractor and the Division cannot agree on the cost of the work for a Change Order, using site-specific information including, but not limited to, Division historic public offer information, the Division will determine and set a fair price for the work and materials that are the subject of the Change Order.

PART 19: PAY ESTIMATES

19.1 General Information

Payments issued to the Contractor as the work progresses are not acceptance of any portion of the work not completed in accordance with the Scope of Work nor do such payments relieve the Contactor of liability with respect to any obligation or any expressed or implied warranties or responsibilities for faulty materials or workmanship.

19.2 Required Review by the Division

Prior to the submittal of each invoice, the Contractor and the Division must meet at the Project site to review the Project progress. The Contractor and the Division's Project Representative must mutually agree on quantity and percentage of work completed for all offer items prior to submittal of each invoice. No invoice will be approved for work that has not been approved by the Division's Project Representative. Field verification of all lump sum quantities and weight slips for all unit price quantities invoiced must be submitted to the Division's Project Representative for review during the meeting.

All Field Orders and/or Change Orders issued prior to an invoice must be signed/acknowledge by the Contractor for the Division to consider an invoice for approval.

The Contractor's payment must be submitted to the division via the Orphan Well Project Management Contractor Portal (https://dnr-ow-prod.powerappsportals.us/). The invoice must include back up documentation. The Division will confirm the invoice is accurate.

For Federally Funded Projects: The Contractor/Subcontractor shall submit payroll reports with each Invoice. Payroll reports shall be completed according to Part 3 of the **Davis-Bacon Requirements** included in the Scope of Work.

Invoices received by the Division containing errors or requesting amounts that cannot be approved will be returned to the Contractor. The Contractor may resubmit an invoice after correcting errors.

19.3 Documents to be Submitted for Payment

With each request for payment the Contractor certifies that:

a. The request for payment is accurate as to materials and the work completed under the terms and conditions of the Scope of Work and any Change Order, as applicable, including full compliance with all labor provisions; and

b. All subcontractors and material suppliers have been paid for the work or materials that are applicable to all previous invoices. As certification, each request for payment, at the Division's request, may need to be accompanied with a properly executed "Waiver of Liens" from all subcontractors and material suppliers to show that all previous payments made by the Division to the Contractor have been applied to fulfill, in full, all of the Contractor's obligations reflected in prior requests for payment.

19.4 Effect of Liens on Invoices

All work, materials, and equipment covered by any request for payment, whether incorporated in the Project or not, will pass to the Division at the time of payment free and clear of all liens, claims, security interests and encumbrances.

If there is evidence of any lien or claim that is chargeable to the Contractor, the Division will withhold all payments due to the Contractor to secure such lien or claim. If there are any previous liens or claims after payments are made to the Contractor, the Contractor may be required to refund to the Division a sum of money equal to the sum of all monies that the Division may be compelled to pay in discharging any lien or claim as a result of the Contractor's default.

PART 20: RETAINAGE FOR FINAL RESTORATION

If the Scope of Work requires revegetation of disturbed area, the Division will retain five percent (5%) of the sum of (1) the Offer amount and (2) all approved Change Orders. The five percent (5%) amount retained shall be released once the Division completes a Final Restoration Inspection and determines that vegetation has reached final stabilization. "Final stabilization" means vegetation established in a uniform perennial vegetative cover and meets all requirements listed in the Detailed Specifications under "Site Restoration". "Final stabilization" also means that no large barren areas exist, and the vegetation is of an equal or better condition than before the project started. The Contractor must remove all temporary erosion and sediment controls once final stabilization is achieved.

PART 21: REDUCED GAS EMISSIONS CREDITS

No one may directly or indirectly use the reduced gas emissions from wells plugged with State of Ohio funds or Infrastructure, Investment and Jobs Act funds, in whole or in part, to monetize, generate, or collect credits to include but not be limited to carbon, methane, or fugitive emissions, or otherwise use the plugging of wells funded with State of Ohio funds or with Infrastructure, Investment and Jobs Act funds to generate income of any type by offsetting their own or another party's gas emissions.

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DAVIS-BACON WAGE REQUIREMENTS

PART 1: PAYMENT OF PREVAILING WAGES

1.1 The Contractor/Subcontractor shall pay the prevailing wage rates of the Project locality, as determined by the U.S. Secretary of Labor, to laborers and mechanics performing Work on the Project.

1.2 The Contractor/Subcontractor shall comply with the provisions, duties, obligations, and is subject to the remedies and penalties of 40 U.S.C. parts 3141-3144, 3146 3147; 42 U.S.C. part 3212 The Davis- Bacon Act; and 40 U.S.C. parts 3701-3708 The Contract Work Hours and Safety Standards Act.

1.3 The Contractor/Subcontractor shall submit all payroll reports in compliance with the requirements of Section 1.2 for all employees.

1.4 By executing a Contract, the Contractor/Subcontractor certifies that it based its Bid upon the prevailing rates of wages as ascertained by the U.S. Secretary of Labor.

1.5 The Contractor/Subcontractor may access the U.S. Secretary of Labor at its website, **https://sam.gov/content/wage-determinations**, to obtain the current wage rates. A copy of the current wage rates is included herein.

PART 2: PAYROLL SCHEDULE

2.1 Within 10 days of the date of the Notice to Proceed, the Contractor/Subcontractor shall provide the Contracting Authority's Prevailing Wage Coordinator a schedule of dates during the term of the Contract on which wages shall be paid to employees for the Project.

PART 3: PAYROLL REPORTS

3.1 The Contractor/Subcontractor shall submit payroll reports with each Payment Request, which reports shall be certified by the Contractor/Subcontractor that the payroll is correct and complete, and that the wage rates shown are not less than those required by the Contract.

3.1.1 Each payroll report shall indicate the period covered and include a list containing the name, address, and last four digits of the social security number of each employee of the Contractor/Subcontractor paid for the Work.

3.1.2 Each payroll report shall list the number of hours each employee worked each day on the

Project during the reporting period, the total hours each day on the Project per job classification, the total hours each week on the Project, the employee's hourly rate of pay, job classification, hourly rate of fringe benefits, all deductions from wages and net pay (actual wages paid).

3.1.3 Each payroll report shall list each fringe benefit and state if it is paid as cash to the employee or to a named plan.

3.1.4 The Contractor/Subcontractor shall submit apprenticeship agreements for all apprentices utilized on the Project.

3.2 The Contractor/Subcontractor shall maintain payrolls and basic payroll records during the course of the work and shall preserve them for a period of three years from the completion of the Contract for all laborers and mechanics, including guards and watchmen, working on the Contract.

3.3 The records to be maintained under this paragraph shall be made available by the Contractor/Subcontractor for inspection, copying, or transcription by authorized representatives of the Contracting Authority and the U.S. Department of Labor, and the Contractor or Subcontractor will permit such representatives to interview employees during working hours on the job.

3.4 Payroll report submittal shall be made via software designated by the Division.

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GENERAL SPECIFICATIONS

Unless there is a specific pay item in the Detailed Specifications, the work defined in the General Specification shall be incorporated into other items of work.

PART 1: HOURS OF WORK

The Contractor, the Contractor's agents, representatives, and subcontractors shall perform plugging projects during the days of Monday through Friday. Work will not be conducted on weekends or state/national holidays except with Division approval or during emergency situations. A workday is defined as eight (8) hours. However, additional hours may be worked with Division approval or during emergency situations.

PART 2: EQUIPMENT

The Contractor equipment shall pass all safety requirements of local, state, and federal agencies. The Ohio Department of Natural Resources, Division of Oil and Gas Resources Management reserves the right to inspect the equipment prior to the Recommendation of Award.

Unless otherwise noted, all equipment and materials required to complete the work described shall be provided by the Contractor.

PART 3: NOTIFICATIONS

3.1 Seven Working Day Notice

The Contractor shall log into the Orphan Well Project Management System (OWPMS) no less than seven (7) working days prior to commencement of work. Notice will be sent using the system and may be sent for each well that work will be started on at that time. This notice will allow the appropriate Division staff time to mark the approved access route and any sensitive areas that need to be left undisturbed.

The Contractor, the Contractor's agents, representatives, and sub-contractors shall contact each utility company that has utilities that directly affect plugging activities at the well location(s).

3.2 Public 48 Hour Notice

Prior to initiating well plugging operations, the Contractor shall give a minimum of 48-hour notice to the local fire department. Confirmation of this notification shall also be made to the Inspector or the Division Regional Office.

3.3 Emergency Notification

When emergency conditions are encountered, such as a release of hydrogen sulfide gas (H_2S), natural gas, crude oil, condensate, or brine that threatens human health, safety or the environment, as described in Ohio Administrative Code 1501:9-08-02, the Contractor shall notify the local fire department, the Local Emergency Planning Committee (LEPC) and call the 24/7 incident notification number: 1-844-OH-Call1 (1-844-642-2551) within 30 minutes of the occurrence.

3.4 Plugging Completion Notice

No sooner than three business days after emplacing the uppermost plug, the Division will review the well to determine if any additional plugging work shall be required at that time. If additional work is needed, a Field Order will be issued by the Division. The Field Order shall state what must be completed and what, if any, Change Orders shall be required. If additional work is not needed the contractor shall cut the casing as defined in the Plugging Plan and set the plugged well identification as outlined in these **General Specifications** and Ohio Administrative Code 1501-9-11-10.

PART 4: ACCESS AND PRESERVATION OF SITE

All costs for the adequate access to the well site for the plugging equipment shall be included in the Offer. Unless waived, placement of all tanks and equipment shall be subject to Division's approval. If requested by the Division, access roads will be chained or cabled to prevent unauthorized use.

Special attention shall be given to maintaining trees and other vegetation that have scenic value, provide shade, reduce erosion and runoff, or add to the aesthetics of the area. No trees three (3) inches or larger in diameter shall be removed without the Division's permission. Any alterations to the natural topography required to provide ingress and egress to the well site must be approved by the Division before work begins.

PART 5: DAMAGE CAUSED BY CONTRACTOR

All damage caused by the Contractor's negligence in carrying out of this scope of work to any public or private property of any nature whatsoever, including trees, shrubs, and crops, shall be corrected to Division's satisfaction at the expense of the Contractor. If crops are damaged and the Contractor, landowner, or tenant cannot reach a settlement, the County Cooperative Extension Service shall set a fair price for crop damages and the decision shall be final and binding upon all parties. All subsequent payments due the Contractor shall be withheld until the Contractor provides proof of payment of any such claim.

The Contractor shall be responsible for all costs of repairing or replacing any survey monument that is disturbed or destroyed by the Contractor. The Contractor shall utilize a professional surveyor who is licensed and registered by the State of Ohio to perform the re-establishment of said monuments according to the standards set forth by the governing body or law of said monument. For the purpose of this scope of work, the term survey monument shall apply to any property boundary marker, federal, state or county geodetic benchmark, state, or county right of way monument, FEMA benchmarks or flood elevation markers.

PART 6: SAFETY

6.1 Public Safety Coordination Meeting

The Contractor shall hold a safety meeting with the County EMA, local fire department, Division Emergency Operations staff and Inspector, and other applicable contracting staff prior to

commencement of plugging activities. The meeting shall review 1) the safety of the public during operations, 2) the safety of workers during operations, 3) emergency notifications of events, 4) site set up and layout, 5) general overview of operations, 6) nearest hospital's address and directions.

This meeting shall be led by the Contractor and is intended to be well specific. At the discretion of the Division, this requirement may be waived for the remaining wells should these wells be part of the same lease\property.

6.2 Daily Safety Meetings

The Contractor shall hold a daily safety meeting for all personnel on-site prior to the commencement of work. The Contractor shall provide and maintain a sign in/out sheet for all people on location. The Contractor shall immediately report any accidents and/or safety concerns to the Inspector.

6.3 Operational Standards

The Contractor shall follow the rules established by Occupational Safety and Health Administration (OSHA) Safety and Health Regulations for Construction 29 CFR 1926 and OSHA General Industry 29 CFR 1910 on all onsite project operations.

6.4 Excavation and Trenching Requirements

The Contractor shall follow the notification protocol as specified in Part 3 of the General Specifications before the start of any excavating activities. The Contractor will comply with OSHA Construction Standards for excavation and trenching under 29CFR 1926 Subpart P.

6.5 Hazardous Communications Requirements

The Contractor shall maintain Safety Data Sheets (SDS) for all chemicals stored and/or used. SDS sheets will be stored onsite with the Emergency Response Plan (ERP). A copy of SDS sheets and the ERP will be stored at the project entrance in a container labeled "ERP/SDS". A copy of all SDS will be supplied to the local Fire Department and/or to the Division when requested.

6.6 Site Security

The Contractor shall provide and install protective barriers/fencing around the work area to prevent unauthorized access. Ingress and Egress access must be maintained at all times.

6.7 Wind Direction Indicator

The Contractor shall install a windsock in an open area of the well location where it is visible to all onsite personnel. It shall be constructed of high visibility material and deployed no less than six (6) feet above grade during the plugging operations.

6.8 Muster and Smoking Areas

The Contractor shall mark and assign a primary and a secondary muster area daily upwind of the well location. These are to be determined based on prevailing wind direction, as indicated by the windsock. The Contractor will establish a safe location for a designated smoking area.

6.9 Ignition Sources and Parking Areas

The Contractor shall identify and mark all potential ignition sources within a 50-foot radius of the well. The Contractor shall mitigate or remove as many ignition sources as possible from the working area. The designated parking area will be outside the 50-foot radius from the well.

6.10 Air Monitoring and Worker Safety

The Contractor shall supply and place a 4-gas monitor at the wellhead. The gas monitor must be calibrated and maintained to monitor Methane (CH_4), Oxygen (O_2), Carbon Monoxide (CO) and Hydrogen Sulfide (H_2S).

Stop work must be followed when any of the levels listed below occur:

- Methane - 1000 parts per million (ppm)/2% Lower Explosive Limit (LEL),
- Oxygen - saturation below 19.5% or above 23%,
- Carbon Monoxide – 50 ppm,
- Hydrogen Sulfide – 10 ppm.

The levels stated above are directly from the Occupational Safety and Health Administration (OSHA) and The National Institute for Occupational Safety and Health (NIOSH) and are standard for air monitoring procedures for safety and work environments. If any of the above levels are alarmed, all personnel will shut down ignition sources and report to the muster area.

Division Emergency Operations personnel or the Inspector has the right to stop work if the actions are unsafe or the actions cause or are likely to cause danger to the workers, public, or the environment.

PART 7: MAINTENANCE OF TRAFFIC

The Contractor shall at all times install, maintain, and operate all traffic and traffic control devices in conformance with the requirements of the "Ohio Manual of Uniform Traffic Control Devices for Streets and Highways," hereinafter called The Ohio Manual.

The Contractor shall notify the appropriate public officials and the Division and shall obtain all required permits prior to any lane closure of a public road.

The Contractor shall maintain ingress/egress to all properties associated with the project at all times during the project unless agreed upon in writing by the Division and the landowner.

7.1 STREET CLEANING

The Contractor shall be required to provided street cleaning services in order to remove sediment/debris tracked from the construction site/access drive onto private or public roadways during all phases of the Project.

The Contractor shall work diligently to minimize the amount of sediment tracked onto roadway. The Contractor will conduct all construction and ingress/egress operations in conformance with Part 9: Erosion and Sediment Control of the General Specifications. Use of other erosion and sediment control measures to prevent sediment runoff during period of rains and non-working hours.

The Contractor will provide street cleaning, such as sweeping or vacuuming, at locations around the project ingress/egress where plugging operations has caused tracking of sediments onto

roadways. Mechanical sweepers shall be vacuum-type or regenerative sweepers. Sweeping speed will not exceed 6 mph. A minimum of two passes shall be made. Streets must be cleaned daily before the end of the workday. If excess sediments have been tracked onto the streets or if rain is expected, the Division may direct the Contractor to clean the street as often as necessary to keep the street clean at all times.

The Contractor shall be required to remove and dispose of sediments properly. Removal of collected sediment deposits will be disposed on the project site. If sediment deposits cannot be disposed of on-site, an alternative location will be approved by the Division. No offsite disposal will be in or adjacent to a stream and/or floodplain. Sediments to be placed at the project site will be in conjunction with site restoration and should be spread, compacted, covered, and stabilized in accordance with the site restoration line item. **Sediment will not be allowed to flush into stream or drainage way and washing or flushing of sediments into adjacent drainage systems is prohibited.** If sediment has been contaminated, it will be disposed of in accordance with the contaminated material disposal line item.

The cost of this work shall be included in Contract bid prices for items of which this work is a component.

PART 8: PROTECTION OF EXISTING UTILITIES

Before construction begins, the Contractor, acting as an agent for the Division, shall locate all utilities in the vicinity of the work. The Contractor shall be responsible for complying with the regulations pertaining to utilities in the State of Ohio. The Contractor shall assume all risk for all utilities located in the vicinity of the work, whether above or below the surface of the ground. The Contractor shall also be responsible for all damages and assume all expense for direct or indirect injury, caused by his work, to any of the utilities, or any person or property by reason of injury to them, whether such utilities are or are not shown on the drawings, once they have been uncovered by the work. **In compliance with Ohio Revised Code 3781, two working days before digging the Contractor shall contact the Ohio Utility Protection Service (OUPS) and Oil and Gas Producers Underground Protection Service (OGPUPS) using the Ohio811 one call service by calling 811 or by using the i-dig login found on the internet at OHIO811.org. The Contractor shall maintain a current OUPS/OGPUPS call ticket during the entire project.**

PART 9: EROSION AND SEDIMENT CONTROL

Temporary erosion control measures are required during the course of this project. These measures may consist of the installation of straw bale dikes, silt fence, filter socks, inlet protection structures, erosion control blankets, energy dissipation, and temporary seeding and mulching.

Once construction begins, the Contractor shall be solely responsible for all construction related to the control of off-site sedimentation. This sediment shall be removed by the Contractor at the Division's direction.

9.1 Temporary Measures

Temporary erosion control structures shown on the Drawing Plan Set, identified with these specifications, or as directed by the Division shall be placed as soon as construction starts and must be maintained during the course of the project. At the direction of the Division, the Contractor shall remove the temporary controls when they are no longer needed or when required permanent control measures have been completed.

If sediment escapes the site, accumulations must be removed at a frequency to minimize further

negative effects, and whenever feasible, prior to the next rain event.

The contractor shall be responsible for revegetation of all areas in which sediment escapes the site. These areas shall be included in the final stabilization of the project and shall be at the cost of the contractor.

9.2 Maximum Exposed Areas

Stabilization measures must be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and except as provided below, must be initiated no more than seven (7) days after the construction activity in that portion of the site has temporarily or permanently ceased.

Where the initiation of stabilization measures by the seventh day after construction activity temporarily or permanently ceased is precluded by snow cover, or frozen ground conditions, stabilization measures must be initiated as soon as practicable.

Where construction activity on a portion of the site is temporarily ceased, and earth-disturbing activities will be resumed within fourteen (14) days, temporary stabilization measures do not have to be initiated on that portion of site.

The Division may limit the area of excavation, borrow and embankment operations in progress commensurate with the Contractor's capability and progress in keeping the finished grading, re-soiling, mulching, seeding and other such permanent control measures current in accordance with the acceptable schedule.

9.3 Winterization

When an incomplete project will be left exposed throughout the winter season, the Contractor shall furnish the Division a plan indicating the control measures to be installed and maintained until the next construction season.

If the winter period falls within the anticipated construction period of the Scope of Work and as indicated in the original approved construction schedule, control structures will be paid for by the Division at the unit prices in the Offer.

If the project is not substantially completed prior to the winter season due to the failure of the Contractor to meet the completion date, these necessary control structures will be installed and maintained by the Contractor at his expense and these items will not be paid for under the terms of the Scope of Work, except those that are permanent facilities to be left in place in accordance with the Drawing Plans Set and Specifications.

9.4 Other Controls

Off-site vehicle tracking of sediments and the generation of dust must be minimized, and any waste must be properly disposed.

9.5 Inspections

The Division Inspector shall conduct inspections to ensure that the control practices are functional and to evaluate whether the erosion and sediment control measures are adequate and properly implemented.

9.6 Enforcement

The Division shall take appropriate steps to ensure that sedimentation does not leave the project site. The Division shall require the removal of off-site sediment by the Contractor if such sediment resulted from the Contractor's negligence to place and maintain sediment control structures in accordance with the Drawing Plan Set and Specifications.

PART 10: SPILL PREVENTION AND REMEDIATION

The Contractor is expected to prevent and, if necessary, contain and remediate any spills that may occur at the site due to plugging activities. All stationary plugging equipment on well locations that are in tiled farm fields, residential neighborhoods, parks, or in/adjacent to areas determined by the Division to be environmentally sensitive, will be staged on an impermeable liner and berm. **The Contractor will have oil absorbent pads and booms available onsite during the plugging operations.**

PART 11: HYDROGEN SULFIDE

If the well that is being plugged is known to produce hydrogen sulfide (H_2S), the following considerations must be observed:

A. The Contractor must provide the appropriate equipment, on-site, to properly detect and abate any H_2S emitted from the well. If the Contractor does not have the appropriate equipment to properly detect and abate any H_2S emitted from the well, they will utilize an appropriate party to provide these services.

B. The Contractor will shut-in the well each night after the plugging operations have ceased, unless otherwise instructed by the Division. The Contractor will continue this process until the plugging operations are complete and there are no further signs of a gas release.

PART 12: CASING

The Division reserves the right to require the removal and or placement of any tubing, casing, or liners deemed necessary to properly plug and abandon the well. If a string of casing that would normally be pulled cannot be removed, the Contractor may be required to log the well and perforate the casing, in accordance with the Division's instructions, so that cement can be circulated behind the casing.

The Contractor shall run an operational string of casing when caving of the well prevents clean out to depth required in the scope of work.

PART 13: DEFINITIONS

13.1 Clean Out

The process in which the contractor would use a smaller diameter tubular to circulate out material from inside a larger diameter wellbore/tubular. This shall include removing mud-laden fluid, prepared clay, bridge plugs (e.g. brush and stone plugs, surface debris), and wellbore cave-in (e.g. swelling shales, red clays). Equipment needed includes, but is not limited to, tubing, a mud pump, a power swivel/power sub or a tubing swivel, a drill bit with the jets removed and/or a notched collar. *A positive displacement mud pump with the capacity of pumping at least 3 barrels per minute and able to overcome hydrostatic head is required for this process.*

13.2 Drill Out

The process in which the contractor would use a drill string, associated fittings, and a bit to remove an obstruction from inside of the wellbore or casing. This shall include removing cement, grout, wood plugs, or other materials in which a cleanout operation failed to remove. Equipment needed includes, but is not limited to, a mud pump, power swivel/power sub, drill string (including collars and casing or tubing), cross over subs, bit sub, and drill bit. *A positive displacement mud pump with the capacity of pumping at least 3 barrels per minute and able to overcome hydrostatic head is required for this process.*

13.3 Wash Over

A process in which the contractor would use an intermediate size working string of casing, usually equipped with a carbide coated collar on the bottom joint, to run down over the smaller well tubular and clean out the annular space between the well tubulars. This process would include utilizing a power swivel or power sub to rotate the working string of casing and a mud pump to circulate fluid down between the working string and the outside of the smaller well tubular to wash out the material in the annular space between the well tubulars. This shall include removing mud-laden fluid, prepared clay, cement, grout, field packers, and surface debris. When needed, a wash over bit shall be attached on the bottom of the larger casing to act as a cutting edge for the material on the backside of the tubular being washed over. *A positive displacement mud pump with the capacity of pumping at least 3 barrels per minute and able to overcome hydrostatic head is required for this process.*

13.4 Milling

The process in which the contractor shall use a drill string and bit to remove a metal obstruction from inside of the wellbore or casing. Equipment needed includes, but is not limited to, a mud pump, power swivel/power sub, drill string (includes collars and casing or tubing), cross over subs, bit sub, and mill. The mill type would depend on the material encountered. *A positive displacement mud pump with the capacity of pumping at least 3 barrels per minute and able to overcome hydrostatic head is required for this process.*

13.5 Fishing

The process in which the contractor shall use a specialized tools or fishing tool to eliminate an obstruction from inside of the wellbore or casing. Equipment needed includes, but is not limited to, a fishing tool(s) and fishing string.

13.6 Bail & Grout

The process the contractor shall use when determined that the wellbore can be bailed of all fluid, and grouted. Equipment needed includes, but is not limited to, tubing, a bailer, and a grout pump. Grout shall be gravity feed to the bottom. This can be done in one application or in stages, depending on the well depth and condition. If the well cannot be bailed completely dry the contractor shall use a siphon string/tremie tube to remove the water from the well during grout application.

PART 14: WELL OBSTRUCTION ASSESSMENT

If an obstruction is encountered in the well bore that prevents the Contractor from reaching total depth, the Contractor will attempt to identify/assess the nature of the obstruction and attempt to remove any obstruction deemed an impediment to the plugging operation. **The Contractor will supply impression blocks as part of their normal rig equipment.**

PART 15: REMOVAL OF AN OBSTRUCTION

The removal of an unknown obstruction that is encountered during the cleanout of a well may require the use of milling and/or fishing tooling and equipment. The Contractor will include the costs for these services on the appropriate line items in the contingency section of this offer unless these costs are part of a planned procedure. The Division will approve a method for the Contractor to remove the well obstruction. The Division will first utilize contingency specifications and line items to define this work. **The Division will not be responsible for milling or fishing charges that are due to Contractor negligence or Contractor equipment failure.**

PART 16: PLUGGED WELL IDENTIFICATION

In compliance with Ohio Administrative Code 1501:9-11-10, a steel plate, a minimum of ¼-inch thick, shall be tack welded on top of all plugged wells. The well's permit number and "ODNR" shall be welded on the plate in numbers/letters as large as practical. Letters shall have a minimum relief of 1/8-inch.

PART 17: TOILET FACILITIES

Where there are no readily accessible public toilet facilities, the Contractor will provide a portable field toilet on the location during plugging operations.

PART 18: COMPLETION, GUARANTEES AND WARRANTIES

Upon completion of the work described in the Project SOW, the Contractor shall request a Final Restoration Inspection be performed by the Division. The Division shall inspect the Project site(s) for completeness and acceptance against the Project SOW, and if the Division determines necessary, develop a list of incomplete and unacceptable work and conditions to be corrected by the Contractor. The Division will reinspect the Project site(s) until the Division determines all work described in the Project SOW is complete and acceptable.

The Contractor warrants (represents) that their work will be conducted in accordance with the standards described in the Project SOW (i.e., the SOW Detailed Drawings and Specifications) and that the Contractor's work be free of defects. Contractor guarantees their work and materials for a Warranty Period of one year, unless otherwise stated as a special provision of the SOW Detailed Specifications. The one-year Warranty Period commences on the date of inspection on the Final Restoration Inspection form that accepted the work.

Should defects develop with the Contractor's work or materials within the Warranty Period, the Contractor shall, upon written notice of the Division, remedy the defects and any associated disturbance at their own expense. If the Contractor, after receiving the Division's notice, does not remedy the defects to the satisfaction of the Division, the Division may proceed against the Contractor as prescribed by the Department of Administrative Services (DAS), Index Number MAC110. All representations, warranties, and guarantees made in the DAS Index Number MAC110 contract and the Project SOW shall survive final payment and termination or completion of this Contract.

SCOPE OF WORK
LORAIN 13F PROJECT
Multiple Orphan Well Sites
Lorain County, Various Townships

SEQUENCE OF WORK

General: Performance of all work shall be coordinated with the Division of Oil and Gas Resources Management ("Division") Orphan Well Inspector ("Inspector"). The Sequence of Work shall be repeatable for all the project's wells. **Work ahead of service rig mobilization shall be at the discretion of the Division**. Work shall not be initiated prior to fourteen (14) days ahead of rig mobilization, **unless approved in writing by the Division**. Any work performed shall be done in accordance with all requirements listed in this Scope of Work.

The Sequence of Work for the Orphan Well Project shall be as follows:

Phase I:

1) Contact the Ohio Utility Protection Service and the Ohio Oil & Gas Producers Underground Protection Service.

2) Coordinate with the Orphan Well Inspector and the local authorities for the mobilization of equipment over the roads and bridges to the site as applicable.

3) Verify with the Orphan Well Inspector that the pre-construction staking (i.e. Construction Work Limits) has been completed by the Division. **The pre-construction staking must be completed prior to mobilization.**

Phase II:

1) Mobilize all necessary equipment to the site and develop the site access as shown on the **Drawing Plan Set**.

2) Implement site safety and secondary containment as described in the **Detailed Specifications**.

3) Install perimeter sediment controls as required by the Division.

4) Prepare the well for plugging as described in the **Detailed Specifications, "Well Head Control."**

5) Upon successful installation and approval of the wellhead and establishment of well control, the Contractor shall begin to plug the well as described in the **Plugging Plan** and **Detailed Specifications, "Well Preparation & Plugging."**

6) **No sooner than three (3) business days after placing the uppermost plug, the Division will inspect the well at surface to determine if any additional plugging work shall be required at that time. If additional work is not needed the Contractor shall cut the casing as defined in the Plugging Plan.**

7) The Contractor shall set the plugged well identification as outlined in the **General Specifications** and Ohio Administrative Code 1501-9-11-10.

Phase III:

1) Within three (3) working days after Division has determined the plugging operations are completed, the Contractor shall remove all well and well plugging-related equipment, fluids, and cuttings from the site. The Contractor shall also excavate and remove all contaminated soils present onsite if present.

2) Within fourteen (14) days after the completion of the plugging operations, the Contractor shall resoil as applicable, final grade, disc, fertilize, seed, and mulch all disturbed areas. **If work cannot be complete due to the season or weather conditions, the site shall be winterized per the General Specifications, Part 9 Erosion and Sediment Control and the site restoration shall be scheduled for completion.**

3) All reclamation shall be finished to an equal or better condition than what existed prior to construction. The Division shall give the final approval for the restoration of the site.

SCOPE OF WORK
LORAIN 13F PROJECT
Wise CW #6 Orphan Well Site
Lorain County, Grafton Township

WELL DESCRIPTION

This Well Description is for:

Wise CW #6, API# 34-093-2-0188-00-00

Background: The Wise CW #6 is located on an 80.5-acre agricultural parcel (1600053000001) owned by Barbara Jungbluth Trust. This well is situated in a farm field approximately 400 feet east of Island Road and 1,425 feet south of State Route 303/57. The nearest occupied dwelling is approximately 1,000 feet north of the well. Access to the well is directly east off Island Road and into the farm field. There are overhead utilities and a gas transmission line that need to be considered for access to the well. It will be necessary to install a culvert in the shallow ditch between the road and the field. Depending on weather conditions, matting may be needed on the access route through the field and around the well to minimize damage to the field and plugging equipment and for the safety of plugging personnel.

In July 2022 the Wise CW #6 was brought to the attention of the Division through a complaint of an old well on the property filed by then property owner, Carl Gest. Subsequent inspections conducted in 2022 and 2024 found this well is visibly equipped with the remnants of a small pumping unit that is detached from and is just sitting on top of the 6.5-inch diameter production casing, which is open to atmosphere. There was no drive pipe visible at the surface. Soil and debris were noted in the top of the 6.5-inch diameter casing, however, when probed with a shovel this material fell down into the casing. A weighted line was run into the casing where it encountered an obstruction at a depth of 9 feet. The area around the 6.5-inch dimeter casing was excavated to a depth of approximately 2 feet and no larger casing was found. Natural gas could be intermittently detected around the well. There are several rusted sections of 2-inch diameter tubing laying under the large tree in the field which may be the former production tubing used in this well. There is no other production equipment or any storage or transmission equipment known to be associated with this well.

Division records show the Wise CW #6 was drilled in 1940 by Forest Oil Company to a total depth of 164 feet in the Berea Sandstone. The top of the Berea was at 122 feet and the bottom at 164 feet, with a show of oil detected from 124 feet to 133 feet. Drive pipe (8.25-inch diameter) was installed to a depth of 15 feet and 6.5-inch diameter casing was set to 62 feet. The drive pipe diameter is based on casing data taken from an offset that was drilled by the same company. It is apparent that this drive pipe was removed at some point during drilling.There is no detail given in the well records as to if the production casing was cemented in place. The Wise CW #6 was shot from 126 feet to 156 feet with 30 quarts of nitroglycerin. Records indicate there was no increase in production after shot. Based on the equipment remaining on/in the well it is apparent that it was equipped with rods and tubing at some point, which were removed at some point and that this well was abandoned and not plugged.

Division records show the Berea Sandstone as the deepest underground source of drinking water in this area. However, the Berea Sandstone in this area produces oil and gas and water well records in this area indicate that most of the potable water is obtained from shallower aquifers (<55 feet in

depth) which, based on the casing records, are isolated behind the production casing. The cleanout/drillout activities down to and through the Berea should be conducted using a freshwater system and there should be minimal penetration of the shale below the Berea.

For the purposes of this Scope of Work it is assumed that the Wise CW #6 was drilled to a depth of 164 feet in the Berea Sandstone, that the 15 feet of 8.25-inch diameter drive pipe used in drilling and any production tubing and rods were removed from the well, that it is equipped with approximately 62 feet of 6.5-inch outside diameter casing and no other tubulars and that there is an obstruction at a depth of 9 feet.

Scope of Work: This project includes the mobilization and access to the site, removal of the existing vault, plugging the orphan well, temporary storage, removal and disposal of all fluid and materials generated from the plugging process, regrading and revegetating all areas disturbed by the plugging process, and the installation of a new vault and vent system.

Designated Route: The Contractor shall utilize Island Road and other authorized routes to access the site during all stages of the plugging project.

It is the Contractor's responsibility to contact all County, Township, State and Municipal Officials having jurisdiction over the roads that are intended to be utilized for this project. The Contractor shall provide written documentation to the Division, of all road use notifications/approvals prior to mobilizing equipment to the site.

SCOPE OF WORK
LORAIN 13F PROJECT
Wise CW #6 Orphan Well Site
Lorain County, Grafton Township

PLUGGING PLAN

This Plugging Plan is for:

CW Wise #6, API# 34-093-2-0188-00-00

For the purposes of this Scope of Work it is assumed that the Wise CW #6 was drilled to a depth of 164 feet in the Berea Sandstone, that it is equipped with approximately 62 feet of 6.5-inch outside diameter casing and no other tubulars and that there is an obstruction at a depth of 9 feet.

For clean out drill out operation, the Division may require the Contractor to "Mud Up' at the start of the operation. Mud up operations must be performed under the supervision of a certified Mud Engineer, who shall mix the drilling mud and conduct all required mud and fluid checks.

1) The Contractor will excavate, expose and visually inspect the existing 6.5-inch OD casing to evaluate its condition immediately below grade. If the casing is found to be severely degraded, the Contractor will remove the incompetent section of casing and install enough new casing, of similar diameter, to bring the top to a suitable working height.

2) The Contractor will install an appropriately sized, lined and liquid tight cellar around the well to capture all fluids generated during the plugging process.

3) The Contractor shall then install an appropriate wellhead and an approved method of well control on the most appropriately sized casing(s) to insure there is custody of gas and/or fluids generated from the well. **The Contractor shall establish and maintain well control throughout the entire plugging process.**

4) The Contractor will run their tools into the 6.5-inch OD casing and clean out the casing and well bore to its anticipated total depth of approximately 164 feet or a depth approved by the Division. If obstructions are encountered during the cleanout process, drilling, milling and/or fishing equipment may be utilized, as outlined in the **General Specifications,** to reach total depth**. The cleanout/drillout activities down to and through the Berea should be conducted using a freshwater system. The Contractor shall supply/maintain a minimum of 15 barrels of freshwater on location for use as circulation fluid.**

5) The Contractor will employ a freshwater fluid system when attempting to cleanout and/or drillout the well bore, **and there should be minimal penetration of the shale below the Berea** to prevent sloughing and potentially losing equipment and/or the hole. **The Contractor shall supply/maintain a minimum of 15 barrels of freshwater on location for use as circulation fluid.**

6) Once the approved depth has been reached, the Contractor will load the hole and run a logging suite consisting of Gamma Ray/CCL/Bond/Caliper logs to verify the wells total depth, the depth of and bond

quality behind the 6.5-inch OD casing, lithology, and hole diameter for cementing purposes. The log data will be utilized for final cementing calculations.

7) All staged cement plugs will be set through a working string of a minimum 1.5-inch inside diameter tubing utilizing a Division approved API cement system blended with 2% Calcium Chloride, mixed at 15.6 pounds per gallon. The well shall be in a static condition prior to beginning any cementing activities. Circulation must be established and all free crude oil shall be circulated from the wellbore prior to setting any cement plug. **At the discretion of the Division, ten (10) barrels of a cement scavenger such as AQUAGEL, or an equivalent product approved by the Division, shall be pumped immediately ahead of any cement plugs for well conditioning purposes at a mix ratio of fifty (50) pounds of gel per five (5) barrels of approved fluid**.

8) The Contractor will set a cement plug from 164 feet to within forty-eight (48) inches of surface, wait on cement a minimum of eight (8) hours for the cement to obtain the required compressive strength and then check the cement level and top off with additional cement, if necessary.

9) No sooner than three (3) business days after placing the cement plug, the Division will inspect the well at the surface, to determine if any additional plugging work will be required at that time. If additional plugging work is not required by the Division, the Contractor will cut the casing off to a depth of forty-eight (48) inches below ground level and set the plugged well identification as outlined in the General Specifications and the Ohio Administrative Code 1501-9-11-10.

SCOPE OF WORK
LORAIN 13F PROJECT
Schaeffer Charles A #1 Orphan Well Site
Lorain County, Grafton Township

WELL DESCRIPTION

This Well Description is for:

Schaeffer Charles A #1, API# 34-093-2-0850-00-00

Background: The Schaeffer Charles A #1 is located approximately 700 feet north of Grafton Road/SR 57/303 and 1,200 feet west of Island Road, on a 45.6-acre agricultural parcel (1600047000012) owned by Andrew T. Gest & Anna Kathryn Gest. The Schaeffer Charles A #1 is situated in a small oblong brush covered area in an open farm field. The nearest occupied structures are located approximately 400 feet and 450 feet southeast of the well. Access to the well is north off Grafton Road/SR 57/303 at GPS: 41.237563, -82.005939. Depending on weather and soil conditions, matting may be needed for the ingress and egress of plugging equipment and to safely conduct plugging activities. There is an overhead utility line at the proposed ingress point. The project area will need to be cleared of brush to safely access the well and associated components. Inspections of the Schaeffer Charles A #1 were conducted in July of 2022 and June of 2024. There are several components to this well site:

- Approximately 5 feet west of the oil and gas well there is a casing sticking approximately 1-foot above grade. This casing is believed to have been the water well associated with the Schaeffer Charles A #1 well. This casings outside diameter measured 7.15 inches. It is obstructed by soil and debris at a depth of 2 feet.
- The area around the well head was hand excavated to approximately 16 inches below grade where the top of an eight-bolt dresser coupling was exposed. The bottom of this coupling is assumed to be attached to the 10-inch diameter conductor casing. The top of this coupling is attached to the base of a large swage which measured approximately 10.83 inches at the base. There is a 1-inch diameter pipe welded to this swage that is fitted with a plugged valve. After removing the plug, the valve was opened and a small amount of natural gas pressure was released, which blew down in seconds. The dresser coupling on the top of the swage was measured at 4.10 inches outside diameter. The base of this coupling and the bottom of the fasteners were welded to the top of the swage. It appears that the 3.5-inch diameter production tubing comes through the top of the swage. There is an open valve fitted to the tubing just above the dresser coupling, and on top of this valve there is the top bracket of a Gas Packer Anchor attached to the 3.5-inch diameter production tubing. It is assumed that the bottom bracket is attached to the buried conductor pipe. The open reduction fitting in the top of the 3.5-inch diameter tubing was removed and the Teslong camera was run into the well its full length of 15 feet and only the scaled wall of the 3.5-inch diameter tubing was visible. A weighted line was run into the tubing and encountered an obstruction at a depth of 34 feet.
- The exposed and disconnected 3.5-inch diameter flow line, adjacent to the well head, is buried just south of the well for about 50 feet where it comes above grade at the opposite (south) end of the grass strip. The exposed portion of this 3.5-inch diameter line is extremely corroded and sections

are perforated. There is a 1-inch diameter domestic service line connected to this sales line that runs to a regulator system and then underground in a southeast direction, terminus unknown. The 3.5-inch diameter sales line then continues underground in a southerly direction, terminus unknown.

No petroleum odors were noted in the well area. There are no know storage tanks, separators or other production/transmission equipment associated with this well. Grafton Township is not shown as a Hydrogen Sulfide (H2S) Township as per Division records.

Division records show that the Schaeffer Charles A #1 was drilled in 1929 by Ohio Fuel Gas to a depth of 2,646 feet in the Clinton sandstone. The formation information for this well is as follows:

FORMATION	TOP (FT)	BOTTOM (FT)	REMARKS
BEREA	100	210	DRY
LIME	1,260	2,497	WATER: 1,531' AND 2,365'
SHELL	2,554	2,576	
STRAY	2,605	2,610	238 M
CLINTON	2,614	2,629	112 M
TOTAL DEPTH		2,646	

Division records show the following casing data for the Schaeffer Charles A #1:

- 10-inch diameter casing set to 30 feet.
- 8-inch diameter casing set to 259 feet.
- 6-inch diameter casing set to 1,585 feet.
- 5-inch diameter casing set to 2,529 feet.

Completion information shows that the Schaeffer Charles A #1 was shot with 30 quarts of nytroglycerin from 2,614 feet to 2,624 feet. Estimated production, after shot, was 3,108,000 cubic feet of natural gas, with an initial rock pressure of 1,125 pounds per square inch.

Although the Well Completion record indicates that the Schaeffer Charles A #1 was abandoned and there is a filed Application to Plug and Abandon this well, there are no plugging records for this well in the Division database and the visible condition of this well does not indicate that it is plugged. However, the obstruction encountered at a depth of 34 feet indicates that the tubing may have been filled with plugging material or that some sort of debris was thrown into the well and is lodged at that depth.

Casing records were found for a similar era well drilled by Ohio Fuel Gas, API# 34-093-2-0102-00-00, located approximately 4,200 feet southwest of the Schaeffer Charles A #1. These records show that OWS packers were used on both the production casing and tubing.

For the purposes of this Scope of Work it is assumed that the Schaeffer Charles A #1 was drilled to a total depth of 2,646 feet in the Clinton sandstone, that it is equipped with 30 feet of 10-inch diameter casing, 259 feet of 8.63-inch, 2,529 feet of 5-inch diameter production casing and an unknown amount of 3.5-inch diameter production tubing that is set on a packer. There is an obstruction in the production tubing at a depth of 34 feet and a small amount of pressure on the casing/tubing annulus.

Scope of Work: This project includes the mobilization and access to the site, plugging the orphan well, temporary storage, removal and disposal of all fluid and materials generated from the plugging process, regrading and revegetating all areas disturbed by the plugging process, and the installation of a vault and vent system.

Designated Route: The Contractor shall utilize Grafton Road/SR 57/303 and other authorized routes to access the site during all stages of the plugging project.

It is the Contractor's responsibility to contact all County, Township, State and Municipal Officials having jurisdiction over the roads that are intended to be utilized for this project. The Contractor shall provide written documentation to the Division, of all road use notifications/approvals prior to mobilizing equipment to the site.

SCOPE OF WORK
LORAIN 13F PROJECT
Schaeffer Charles A. #1 Orphan Well
Site Lorain County, Grafton Township

PLUGGING PLAN

This Plugging Plan is for:

Schaeffer Charles A. #1, API# 34-035-2-0850-00-00

For the purposes of this Scope of Work it is assumed that the Schaeffer Charles A. #1 was drilled to a total depth of 2,646 feet in the Clinton sandstone, that it is equipped with 30 feet of 10-inch diameter casing, 259 feet of 8.63-inch, 2,529 feet of 5-inch diameter production casing that is set on a packer and approximately 2,630 feet of 3.5-inch diameter production tubing that is also set on a packer. There is an obstruction in the production tubing at a depth of 34 feet and a small amount of gas pressure on the casing/tubing annulus. Well data and pictures can be found in the Appendix.

Drilling data from several wells offset the Charles Schaeffer #1 shows that natural gas was encountered in the Ohio shale at depths between 250 feet and 1,200 feet. The Contractor should exercise caution during the cleanout and plugging of this well.

The Contractor will supply and maintain a dedicated kill fluid consisting of 375 barrels of 9.5 pounds per gallon (ppg) weighted brine with the sole purpose of killing the well to regain well control when required.

For clean out drill out operation, the Division may require the Contractor to "Mud Up' at the start of the operation. Mud up operations must be performed under the supervision of a certified Mud Engineer, who shall mix the drilling mud and conduct all required mud and fluid checks.

1) The Contractor will provide a twenty-four (24)-hour notice to the Landowner and local Fire authorities prior to safely relieving any pressure that is on the well. Once pressure is relieved, the Contractor will remove the swage to see what other tubulars are present in the well.

2) The Contractor will excavate around the well to expose and visually examine the existing casing to evaluate its condition immediately below grade. If necessary, the Contractor will remove any visibly damaged casing and install enough new casing, of similar diameter, to bring the top to a suitable working height.

3) The Contractor will install an appropriately sized, lined, and liquid tight cellar around the well to capture all fluids generated during the plugging process.

4) The Contractor will install an appropriate wellhead and utilize an approved method of well control on the most appropriately sized casing/tubing to ensure there is complete control of gas and/or fluids generated from the well. **The Contractor shall establish and maintain well control throughout the entire plugging process and maintain a minimum of 375 barrels of saltwater on location for use as circulation fluid.**

5) The Contractor will clean out the 3.5-inch diameter production tubing and borehole, including the obstruction at 34 feet, to its assumed total depth of 2,646 feet or a depth approved by the Division. Drilling, milling and/or fishing equipment may be required to reach the approved depth, as outlined in the **General Specifications**.

6) The Contractor will load the hole and run a logging suite consisting of Gamma Ray/CCL/Bond/Caliper logs to verify the depth to the top of the cement plug, the bond quality behind the 3.55-inch diameter tubing, depth and thickness of the packer, hole size and lithology for cementing purposes. This log data will be utilized for final cementing calculations.

7) The Contractor will attempt to remove the 3.5-inch diameter production tubing from the well. If the attempt is unsuccessful, the Contractor will sever the tubing at the lowest free point above the packer (estimated at 2,500 feet), remove this tubing from the well and stage it on a bermed liner. The Contractor will provide the Division an accurate tally of the amount of tubing removed from the well.

8) All staged cement plugs will be set through a working string of a minimum 1.5-inch inside diameter tubing utilizing a Division approved API cement system blended with 2% Calcium Chloride, mixed at 15.6 pounds per gallon. Circulation must be established and all free crude oil shall be circulated from the wellbore prior to setting any cement plug. The well shall be in a static condition prior to beginning any cementing activities. **At the discretion of the Division, ten (10) barrels of a cement scavenger such as AQUAGEL, or an equivalent product approved by the Division, shall be pumped immediately ahead of any cement plugs for well conditioning purposes at a mix ratio of fifty (50) pounds of gel per five (5) barrels of approved fluid.**

9) The Contractor will set a 450-foot bottom plug from 2,640 feet to 2,190 feet to cover/isolate the Clinton sandstone, wait on cement a minimum of eight (8) hours and then run their tools into the hole to verify the depth to the top of the plug. If the plug level has dropped or it is determined that a competent plug has not been achieved, additional plugs may be required, at the discretion of the Division.

10) The Contractor will sever the 5-inch diameter production casing, if present, at the lowest free point above the salt (estimated at 1,600 feet), remove this casing from the well and stage it on a bermed liner. The Contractor will provide the Division an accurate tally of the amount of casing removed from the well.

11) The Contractor will set a 500-foot plug from the sever point at approximately 1,600 feet to 1,100 feet to cover/isolate both the sever point and the top of the Big Lime section. The Contractor will wait on cement a minimum of eight hours and then run their tools into the hole to verify the top of the plug. If the plug level has dropped or an incompetent plug was achieved, additional plugs may be required by the Division.

12) The Contractor will set a 500-foot plug from 1,100 feet to 600 feet to cover/isolate the lower portion of the Ohio shale section, wait on cement a minimum of eight hours and then run their tools into the hole to verify the top of the plug. If the plug level has dropped or an incompetent plug was achieved, additional plugs may be required by the Division.

13) The Contractor will set a 400-foot plug from 600 feet to 200 feet to cover/isolate the upper portion of the Ohio shale section, wait on cement a minimum of eight hours and then run their tools into the hole to verify the top of the plug. If the plug level has dropped or an incompetent plug was achieved, additional plugs may be required by the Division.

14) The Contractor will set a cement plug from 200 feet to within forty-eight (48) inches of surface, wait on cement a minimum of eight (8) hours and then check the cement level and top off with additional cement, if necessary.

15) No sooner than three (3) business days after placing the uppermost plug, the Division will inspect the well at the surface to determine if any remedial plugging work will be required at that time. If additional work is not required, the Contractor will cut off the casing a minimum of forty-eight (48) inches below ground level and set the plugged well identification as outlined by the General Specifications and the Ohio Administrative Code 1501-9-11-10.

SCOPE OF WORK
LORAIN 13F PROJECT
Sears Russell F #1 Orphan Well Site
Lorain County, Grafton Township

WELL DESCRIPTION

This Well Description is for:

The Sears Russell F #1 Orphan well (API # 34-093-6-0277-00-00) Lorain County, Grafton Township.

Background: The Sears Russell F #1 orphan well (API # 34-093-6-0277-00-00) is located approximately 3.7 miles southeast of the City of Grafton. This well is situated approximately 1,300-feet south of Grafton – Eastern Road, on a 9.98-acre residential parcel (# 1600029000021) owned by Jason & Nicole Keltner. The address is 34377 Grafton – Eastern Road, Grafton, OH, 44044.

On 9/29/2009, the Division received a Complaint from Theresa Phillips of 34377 Grafton-Eastern Road, Grafton, Ohio 44044 concerning "a dead spot on the property that was circular in shape with a "smell of gas". A Division Inspector conducted a field inspection and identified a ten (10)-inch casing leaking gas at a rate of five (5)% LEL. There appeared to be cement and plugging clay in the ten (10)-inch casing. There was no tubing, rods or fluid visible at the surface in this well. There wasn't any production, transmission or storage equipment associated with this well.

The Division's database has the drilling record for the Sears Russell F #1 but lacks any records regarding the plugging of the well. Recovered casing and tubing tallies were not available. The Sears Russell F #1 well was completed by the Ohio Fuel Gas Co. on 2/9/1918.

Formation	Top (ft.)	Bottom (ft.)	Remarks
Ls.	1,339	2,558	Water @ 2,439
Pkr shell	2,628	2,648	
Clinton	2,674	2,694	50m nat
Total Depth		2,759	Shot with 30 Qts, 339 m a.s., R.P. 100 psi

Casing data for the Sears Russell F #1 well is as follows:

- 10-inch O.D. casing set to 40-feet
- 6-inch casing set to 1,635-feet
- 5-inch casing set to 2,596-feet

- 3-inch tubing set to 2,759-feet

Plugging records for the D.M. Stock # 1 (API # 34-09320605-00-00), a similar vintage offset well located approximately 2,200-feet to the northeast show that well was plugged in 9/15/1950 in the following manner:

- 10-inch D.P. casing set to 40-feet; 40-feet left in hole
- 8-inch casing set to 279-feet, 279-feet left in hole
- 5-inch casing set to 2,586-feet; 1,800-feet recovered
- 3-inch tubing set to 2,749-feet; 2,535-feet recovered

The D.M. Stock # 1 offset well was plugged in the following manner : Seasoned wood plug drove in tubing rip at 2,535 and filled with prepared clay to 2,240-feet……Tapered cement plug on 5-inch casing rip at 1,800-feet and filled with prepared clay to 1650-feet….. Tapered cement plug at 1,650-feet and filled with prepared clay to 1,300-feet…… Rock bridge 400-feet to 375-feet…… Seasoned wood plug 375-feet to 372-feet…… filled to surface with prepared clay to surface.

For the purposes of this Scope of Work it is reported that the Sears Russell F #1 was drilled to a total depth of 2,759-feet, that it was completed with a 30 quart shot of nitroglycerin in the "Clinton sand", that it was originally equipped with 40-feet of ten (10)-inch diameter drive pipe, that it was originally equipped with 1,635-feet of six (6)-inch diameter casing, that it was originally equipped with 2,596-feet of five (5)-inch diameter casing and was equipped with 2,759-feet of three (3)-inch tubing. The ten (10)-inch drive pipe is the only tubulars visible at the surface. The well was reported to be gassing.

Scope of Work: This project includes the mobilization and access to the site, plugging the orphan well, as well as regrading and revegetation of all disturbed areas disturbed by the plugging project.

Designated Route: The Contractor shall utilize Grafton-Eastern Road to access the site during all stages of the plugging project.

It is the Contractor's responsibility to contact all Township, County, Municipal and State officials having authority over the roads that are intended to be utilized for this project. The Contractor shall provide written documentation to the Division, of all road use notifications/approvals prior to mobilizing equipment to the site.

SCOPE OF WORK
LORAIN 13F PROJECT
Sears Russell F #1 Orphan Well Site
Lorain County, Grafton Township

PLUGGING PLAN

This Plugging Plan is for:

The Sears Russell F #1 Orphan well (API # 34-093-6-0277-00-00) Lorain County, Grafton Township

For the purposes of this Scope of Work it is reported that the Sears Russell F #1 was drilled to a total depth of 2,759-feet, that it was completed by a 30 quart shot of nitroglycerin in the "Clinton sand", that it was originally equipped with 40-feet of ten (10)-inch drive pipe, that it was originally equipped with 1,635-feet of six (6)-inch casing, that it was originally equipped with 2,596-feet of five (5)-inch casing and was equipped with 2,759-feet of three (3)-inch tubing. The ten (10)-inch drive pipe was the only tubular visible at the surface. This well was reported to be gassing.

A review of wells drilled to the "Clinton sand" offsetting the Sears Russell F #1 well reported initial formation pressures ranging from 840 psi to 1090 psi. The lower pressure value may not be reflective of the true formation pressure due to fluid loading. A formation pressure of 1,100 psi was used in the calculation of the kill fluid density. The Contractor will supply and maintain a dedicated kill fluid consisting of 300 barrels of a weighted brine with a minimum density of 9.0 pounds per gallon (ppg) with the sole purpose of killing the well to regain well control when required. The 9.0 ppg brine should generate a hydrostatic pressure of 1,289 psi at the assumed total depth. A mud pump of sufficient size and capacity will be required to be onsite and connected to the diverter lines at all times during the plugging operations as a means to pump the well kill fluid as required. In addition, The Contractor will provide up to 400 barrels of fresh water on location for use as a circulation fluid.

For any clean out/ drill out operation, the Division may require the Contractor to "Mud Up" at the start of the operation. Mud up operations must be performed under the supervision of a certified Mud Engineer, who will mix the drilling mud and conduct all required mud and fluid checks.

1) The Contractor will safely relieve any pressure that may be built up on this well prior to commencing plugging operations. The Contractor will give the property owner and local fire authorities a minimum of twenty-four (24) hour notice prior to commencing operations and blowing down the well.

2) The Contractor will visually examine the existing ten (10)-inch drive pipe to evaluate the condition immediately below grade. If the drive pipe is found to be severely degraded the Contractor will remove the incompetent section of drive pipe and install enough new casing, of similar diameter and grade, to bring the top of the existing drive pipe to a suitable working height.

3) The Contractor will install an appropriately sized and liquid tight temporary cellar around the wellhead to capture all fluids generated during the plugging process. **The design and build requirements for the cellar can be found in the Detailed Specifications.**

4) The Contractor will install an appropriate wellhead and utilize an approved method of well control on the ten (10)-inch drive pipe to ensure there is complete control of the gas and / fluids generated during the plugging process. **The area is known for the presence of "Red Rock" beds in the "Ohio shale" interval. Based on this information the Contractor will utilize a formation compatible fluid that will encourage wellbore stability.**

5) The Contractor will clean out / drill out the ten (10)-inch drive pipe and wellbore to 50-feet below the Berea Sandstone or 250-feet which ever is deeper. The Contractor will install and cement back to surface, an 8.625-inch O.D. surface casing string from a minimum of 50-feet below the Berea Sandstone to protect the USDW. Such casing string will include a float shoe and sufficient bow spring centralizers for zonal isolation. The Contractor shall wait on cement for a minimum of eight (8)-hours to obtain sufficient compressive strength prior to drill out.

6) The Contractor will install an appropriate wellhead and utilize an approved method of well control on the 8.625-inch O.D. surface casing and continue to drill out the residual cement in the casing and float shoe.

7) The Contractor will clean out, drill out or utilize milling, wash over or fishing equipment to clear out any obstructions, as specified in the **Detailed Specifications,** in the wellbore to its total depth (TD) of 2,759-feet or a depth approved by the Division.

8) Once total depth has been reached or a depth approved by the Division, the Contractor will load the hole with a compatible fluid and run a suite of logs consisting of Gamma Ray/CCL/VDL Bond & Caliper logs to verify the total depth, lithology, cement quality and wellbore diameter. All cement plug depths and thicknesses will be based on this log data.

9) All cement plugs shall be set through a minimum working string of 1.5-inch inside diameter tubing using a Division approved cement system blended with two (2) % Calcium Chloride mixed at the recommended API density. The Contractor will verify the cement slurry density with a balance beam mud scale. **The Contractor will, prior to cementing the bottom plug, circulate the wellbore with two (2) hole volumes of a compatible fluid with the capacity calculated at the total depth or a depth approved by the Division. The well will be in a static condition prior to any cementing. At the discretion of the Division, a minimum of 10 barrels of AquaGel **, a scavenger cement or an equivalent approved by the Division will be pumped immediately ahead of any cement plugs for well conditioning purposes. In addition, circulation must be established and all free crude oil will be circulated from the wellbore prior to setting any plugs. **(a mix ratio of one (1) fifty-pound bag of gel per five (5) barrels of the approved fluids).**

10) The Contractor will set a 400-foot cement plug from 2,750-feet to 2,350-feet, as determined by log data, to cover or isolate the "Clinton sand". The Contractor will wait a minimum of eight (8)-hours for the cement to set and then run their tools into the wellbore to verify the depth to the top of the bottom plug. If the plug level has dropped or it is determined that a competent plug was not achieved, additional plugs may be required, at the discretion of the Division.

11) The Contractor will set a 400-foot cement plug from 1,550-feet to 1,150-feet to cover / isolate the top of the "Big Lime" and wait on cement to set for a minimum of eight (8)-hours. After the wait on cement period has expired, the Contractor will run their tools into the wellbore to verify the top of the plug. If the plug has dropped or it is determined that a competent plug has not been achieved, additional plugs may be required, at the discretion of the Division.

12) The Contractor will then set a 400-foot cement plug from 800-feet to 400-feet to isolate the "Ohio shale" interval and wait on the cement to set for a minimum of eight (8)-hours. After the wait on cement period has expired, the Contractor will run their tools into the wellbore to ensure proper placement of the plug. If it is determined that the plug has dropped or a competent plug was not achieved, additional plugs may be required, at the discretion of the Division.

13) The Contractor will then set a 400-foot cement plug from 400-feet to surface. The Contractor will wait on the cement to set for a minimum of eight (8)-hours. After the wait on cement period has expired, the Contractor will examine the cement level and top off with additional cement, if necessary.

14) No sooner than three (3) business days after placing the uppermost plug, the Division will inspect the well at surface to determine if any additional plugging work will be required at that time. If additional work is not needed the Contractor shall cut the casing to a depth of 48-inches below the surface and the Contractor shall set the plugged well identification as outlined in the General Specifications and Ohio Administrative Code 1501-9-11-10.

SCOPE OF WORK
LORAIN 13F PROJECT
Wise Geo #1 Orphan Well Site
Lorain County, Grafton Township

WELL DESCRIPTION

This Well Description is for:

Wise Geo #1, API# 34-093-2-0142-00-00

Background: The Wise Geo #1 is located approximately 650 feet east of Avon Belden Road/SR 83 and 1,850 feet north of SR 57/303, on a 6.38-acre residential parcel (1600046000025) owned by Jordan and Jessica Hunt. The property address is 16675 State Route 83, Grafton 44044. The Wise Geo #1 is situated in the open field, approximately 400 feet east of the Hunt residence and 70 feet southwest of the lone tree in the field. The nearest neighboring occupied dwelling is located approximately 275 feet southwest of this well. Access to the well is east directly off Avon Belden Road/SR 83. Matting will be needed to protect and minimize damage to the paved driveway and grass yard area that will be affected by plugging equipment/activities. Depending on weather conditions, matting may be needed on the access route through the field and around the well to minimize damage to the field and plugging equipment and for the safety of plugging personnel. There are overhead utilities that will need to be considered for plugging equipment to access the property.

The Wise Geo #1 was brought to the attention of the Division in March 2021 when a local contractor excavated an area on this property suspected of having an old buried well that was leaking natural gas. The contractor found an open 10-inch diameter casing 3 feet below grade. In the subsequent Division inspection, they ran a weighted line into the well casing and encountered soft wet clay at a depth of 22 feet and a hard obstruction at a depth of 25 feet. A temporary vault and vent system, consisting of an open bottom drum with a 2-inch diameter steel vent pipe attached to the top of the drum, was placed over the well casing and the excavation was backfilled. There was an odor of natural gas in the well area. There is no production, transmission or storage equipment known to be associated with this well. Grafton Township is not shown to be a Hydrogen Sulfide (H2S) Township as per Division records.

Division records show that drilling was completed on the Wise Geo #1 in 1940 by Ohio Fuel Gas (OFG) to a depth of 2,647 feet in the Clinton sandstone. The formation information for this well is as follows:

FORMATION	TOP (FT)	BOTTOM (FT)	REMARKS
MUD AND SHALE	0	95	
BEREA	95	105	
SHALE	105	110	
RED ROCK	110	160	
SHALE	160	170	
RED ROCK	170	225	
SHALE	225	1,226	CINNAMON: 645 – 1040; DRY
LIME	1,226	2,445	WATER: 1,425, 1,470, 2,310
SALT	1,700	1,765	

CASING SHELL	2,455	2,460	
PACKER SHELL	2,493	2,510	
SHELL	2,519	2,560	
CLINTON SAND	2,577	2,585	GAS

FORMATION	**TOP (FT)**	**BOTTOM (FT)**	**REMARKS**
RED ROCK	2,585	2,588	
SHALE	2,588	2,647	
TOTAL DEPTH		**2,647**	Shale occupies breaks in record below Lime

Casing records for the Wise Geo #1 are as follows:

- 10-inch diameter casing set to 61 feet (left in hole).
- 8.5-inch diameter casing set to 244 feet (removed when plugged).
- 6.63-inch diameter casing set to 1,551feet (1,508 feet removed when plugged).
- 5.5-inch diameter casing set to 2,475 feet (1,739 feet removed when plugged).
- 3-inch diameter tubing set to 2,627 feet (2,496 feet removed when plugged).

The available plugging records show that the Wise Geo #1was plugged by OFG in 1953 as follows:

- Seasoned wood plug driven in tubing rip at 2,496 feet and filled w/clay to 2,100 feet.
- Tapered cement plug set at 5-inch casing rip at 1,739 feet and filled with clay to 1,639 feet.
- Tapered cement plug set at 1,508 feet and filled with clay to 1,385 feet.
- Rock bridge from 400 feet to 385 feet.
- Seasoned wood plug set at 385 feet to 382 feet and filled w/clay to 244 feet.
- Tapered cement plug set at 244 feet and filled with clay to surface.

For the purposes of this Scope of Work it is assumed that the Wise Geo #1:

- **was drilled to a depth of 2,647 feet in the Clinton sandstone,**
- **that it is equipped with 61 feet of 10.75-inch outside diameter drive pipe,**
- **that there is an obstruction in the well at an approximate depth of 25 feet,**
- **that it was previously plugged by Ohio Fuel Gas, and that all the surface casing was removed during the abandonment process and a tapered cement plug was set at the surface casing seat at 244 feet,**
- **that there is a three (3) foot long seasoned wood plug set on top of a rock bridge that was set from 385 feet to 400 feet,**
- **that tapered cement plugs were set where they parted the intermediate and production casings at 1,508 feet and 1,739 feet, respectively,**
- **that a seasoned wood plug was set where the production tubing was parted at 2,496 feet,**
- **that all the parted tubulars were removed from the well, that clay was placed on top of these solid plugs.**

Scope of Work: This project includes the mobilization and access to the site, plugging the orphan well, temporary storage, removal and disposal of all fluid and materials generated from the plugging process, regrading and revegetating all areas disturbed by the plugging process, and the installation of a vault and vent system.

Designated Route: The Contractor shall utilize Avon Belden Road/SR 83 and other authorized routes to access the site during all stages of the plugging project.

It is the Contractor's responsibility to contact all County, Township, State and Municipal Officials having jurisdiction over the roads that are intended to be utilized for this project. The Contractor shall provide written documentation to the Division, of all road use notifications/approvals prior to mobilizing equipment to the site.

SCOPE OF WORK
LORAIN 13F PROJECT
Geo Wise #1 Orphan Well Site
Lorain County, Grafton Township

PLUGGING PLAN

This Plugging Plan is for:

Geo Wise #1, API# 34-093-2-0142-00-00

For the purposes of this Scope of Work it is assumed that the Geo Wise #1 well was drilled to a total depth of 2,647 feet in the Queenston shale, that it is equipped with 61 feet of 10.75-inch outside diameter drive pipe, that there is an obstruction in the well at an approximate depth of 25 feet, that it was previously plugged by Ohio Fuel Gas, and that all the surface casing was removed during the abandonment process and a tapered cement plug was set at the surface casing seat at 244 feet, that there is a three (3) foot long seasoned wood plug set on top of a rock bridge that was set from 385 feet to 400 feet, that tapered cement plugs were set where they parted the intermediate and production casings at 1,508 feet and 1,739 feet, respectively, that a seasoned wood plug was set where the production tubing was parted at 2,496 feet, that all the parted tubulars were removed from the well, that clay was placed on top of these solid plugs.

Drilling records for well offset the Geo Wise #1, show that natural gas was encountered in the Ohio shale at depths between 250 feet and 1,200 feet. The Contractor should exercise caution during the cleanout and plugging of this well.

The Contractor will supply and maintain a dedicated kill fluid consisting of 350 barrels of 9.5 pounds per gallon (ppg) weighted brine with the sole purpose of killing the well to regain well control when required.

For any clean out or drill out operation, the Division may require the Contractor to "Mud-Up" at the start of the operation. Mud-Up operations must be performed under the supervision of a certified Mud Engineer, who shall properly mix the drilling mud and conduct all required mud and fluid checks/adjustments.

1) The Contractor will excavate and remove the temporary vault and expose and visually examine the existing 10.75-inch diameter casing to evaluate its condition immediately below grade. The Contractor will remove any visibly damaged casing and install enough new casing, of similar diameter, to bring the top to a suitable working height.

2) The Contractor will install an appropriately sized, lined, and liquid tight cellar around the well to capture all fluids generated during the plugging process.

3) The Contractor will install an appropriate wellhead and utilize an approved method of well control on the 10.75-inch diameter casing to ensure there is complete custody of gas and/or fluids generated from the well. **The Contractor shall establish and maintain well control throughout the entire plugging process**.

4) The Contractor will clean out the 10.75-inch diameter casing and wellbore to a depth of 250 feet or a depth approved by the Division. Drilling, milling and/or fishing equipment, as outlined in the **General Specifications**, may also be required to reach the required depth. **A freshwater system should be used during the cleanout through the setting of surface casing.**

5) The Contractor will install 240 feet of 7-inch diameter casing with a float shoe installed on the bottom joint. The Contractor shall cement the casing's annulus to surface using an API approved cement system blended with 2% Calcium Chloride and mixed at 15.6 pounds per gallon. The Contractor shall verify cement slurry weight by a beam balance mud scale. The Contractor will wait on cement a minimum of eight (8) hours; after which the Contractor will run their tools into the annulus to verify the depth to the top of the cement.

6) **Due to the reactive nature of the Ohio shale to freshwater, a saltwater system should be used during the cleanout/drillout after the surface casing has been set**. **The Contractor shall maintain a minimum of 350 barrels of saltwater on location for use as circulation fluid.**

7) The Contractor will drill out the float shoe and any residual cement and continue to clean out the well to its anticipated total depth of 2,647 feet or a depth approved by the Division. Drilling, milling and/or fishing equipment, as specified in the **General Specifications**, may also be required to clear any potential obstructions in the well bore to reach the approved depth.

8) Once the approved depth is reached and the well is static, the Contractor will load the hole and run a logging suite consisting of Gamma Ray/CCL/Bond/Caliper logs to verify the well's total depth, the bond quality behind the 7-inch diameter casing, lithology, and hole diameter for cementing purposes. The log data will be utilized for cementing calculations.

9) All staged cement plugs will be set through a working string of a minimum 1.5-inch inside diameter tubing utilizing a Division approved API cement system blended with 2% Calcium Chloride, mixed at 15.6 pounds per gallon. The well shall be in a static condition prior to beginning any cementing activities. Circulation must be established and all free crude oil shall be circulated from the wellbore prior to setting any cement plug. **At the discretion of the Division, ten (10) barrels of a cement scavenger such as AQUAGEL, or an equivalent product approved by the Division, shall be pumped immediately ahead of any cement plugs for well conditioning purposes at a <u>mix ratio of fifty (50) pounds of gel per five (5) barrels of approved fluid</u>**.

10) The Contractor will set a 450-foot bottom plug from 2,600 feet to 2,150 feet, as determined by log data, to cover/isolate the Clinton sandstone, wait on cement a minimum of eight (8) hours and then run their tools into the hole to verify the depth to the top of the plug. If the plug level has dropped or it is determined that a competent plug has not been achieved, additional plugs may be required, at the discretion of the Division.

11) The Contractor will set a 500-foot plug from 1,500 feet to 1,000 feet to cover/isolate the top of the Big Lime section, wait on cement a minimum of eight hours and then run their tools into the hole to verify the top of the plug. If the plug level has dropped or an incompetent plug was achieved, additional plugs may be required by the Division.

12) The Contractor will set a 500-foot plug from 1,000 feet to 500 feet to cover/isolate the Ohio shale section, wait on cement a minimum of eight hours and then run their tools into the hole to verify the top the plug. If the plug level has dropped or an incompetent plug was achieved, additional plugs may be required by the Division.

13) The Contractor will set a cement plug from 500 feet to within forty-eight (48) inches of surface, wait on cement a minimum of eight (8) hours and then check the cement level and top off with additional cement, if necessary.

14) No sooner than three (3) business days after placing the uppermost plug, the Division will inspect the well at the surface to determine if any remedial plugging work will be required at that time. If additional work is not required, the Contractor will cut off the casing a minimum of forty-eight (48) inches below ground level and set the plugged well identification as outlined by the General Specifications and the Ohio Administrative Code 1501-9-11-10.

SCOPE OF WORK
LORAIN 13F PROJECT
Multiple Orphan Well Sites
Lorain County, Various Townships

DETAILED SPECIFICATIONS

The Contractor is reminded to review the Scope of Work documents carefully. Coordination, permission, or direction of the Division may be required for use of individual Detailed Specification line items. The Division shall only pay for quantities of items that are correctly installed and completed in accordance with the Detailed Specifications and Drawing Plan Set. The Division shall not guarantee payment of any work completed without or prior to following the conditions described herein of each line item.

MOBILIZATION

A. Description: This work shall consist of the development of access and the mobilization of the Contractor's forces and equipment necessary for performing the required work under the Scope of Work for the well site.

This item shall include the transportation of personnel, equipment, and supplies to and from each site as well as the maintenance of all onsite access roads.

As part of this line item, the Contractor shall also include any maintenance of traffic required within the road right-of-way per Part 7 of the General Specifications.

Also, the Contractor shall be responsible for cleaning mud and dirt associated with construction from all roadway surfaces (public and private) as per Part 7.1 of the General Specification for the duration of the Project and as directed by the Division.

B. Execution: No additional compensation shall be made to the Contractor for remobilization after his equipment has been removed from the site. If applicable, this shall include remobilization of equipment if removed due to winterization of the project.

Any damage to the road, drives, and/or culverts caused by the mobilization shall be repaired by the Contractor at the Contractor's expense. All repairs shall be done equal to or better to that which existed prior to construction activities.

C. Measurement: Measurement for payment will be considered and measured as a unit satisfactorily completed and accepted by the Division.

If any portion of the item is non-performed to the satisfaction of the Division (i.e., the mud and dirt are not cleaned from the roadway, the proper signage is not used as detailed) this is

considered unsatisfactory and shall be cause for the rejection of payment of this item.

As part of the consideration to be satisfactorily completed, work shall be per the "Sequence of Work."

D. Payment: The cost of this work shall be included in the lump sum price for **"Mobilization."**

DEMOBILIZATION

A. Description: This work shall consist of the demobilization of all personnel, plugging related equipment and materials as well as the cleanup of all areas upon completing all other work required under the scope of work for the well site.

B. Execution: Any damage to the road, drives, and/or culverts caused by the demobilization shall be repaired by the Contractor at the Contractor's expense. All repairs shall be done equal to or better to that which existed prior to construction activities.

This item shall also include the continued and proper use of any maintenance of traffic required within the road right-of-way per Part 7 of the General Specifications.

Also, the Contractor shall be responsible for cleaning mud and dirt associated with construction from all roadway surfaces (public and private) as per Part 7.1 of the General Specification for the duration of the Project and as directed by the Division.

C. Measurement: Measurement for payment will be considered and measured as a unit satisfactorily completed and accepted by the Division. **Demobilization of equipment from the well site to well site for this project shall be considered incidental to this line item.**

If any portion of the item is non-performed (i.e., the mud and dirt are not cleaned from the roadway, damaged items not restored to the satisfaction of the Division, etc.) this is considered unsatisfactory and shall be cause for the rejection of payment of this item.

D. Payment: The cost of this work shall be included in the lump sum price for **"Demobilization."**

CLEARING & GRUBBING

A. Description: This item covers the removal of the vegetation within the limits shown on the Drawing Plan Set to provide adequate space to maneuver equipment to complete the proposed work at each well.

B. Execution: The Contractor shall only clear enough of the site within the limits shown on the Drawing Plan Set to provide adequate space to maneuver equipment to complete the proposed work. The Division shall exercise control over clearing and shall designate all trees, plants, shrubs, abandoned material, trash, etc., to be removed or to remain. This work shall also include the preservation from injury or defacement of all trees designated to remain.

If the Contractor clears and/or grubs beyond the construction work limits, whether knowingly or accidentally, the Contractor shall replant and/or otherwise restore all areas outside of the limits to a condition equal to or better than what existed prior to beginning work. This shall be no at no additional expense to the Division.

All tree disturbance (trimming and/or removal) activities shall be coordinated with the Division as these trees may provide suitable roosting, foraging, or traveling habitat for Threatened & Endangered species. To prevent adverse impacts to Threatened & Endangered species, clearing of trees with a DBH (Diameter at Breast Height) greater than 3inches, **shall not take place between April 1st and September 30th.**

All marketable trees over ten (10) inches in diameter at 4.5 feet off the ground shall **be cut into firewood logs of twenty (20) inch lengths** and stacked for the landowner at a location on the project site as directed by the Division. The Contractor shall be responsible for the repair/reconstruction of the log piles, at the discretion of the Division, up to the final acceptance of the project.

All suitable debris cleared shall be chipped by mechanical methods and the mulch shall be stockpiled/spread onsite in the locations designated by the Division's Representative.

All logs and stumps not suitable for chipping by mechanical methods and the mulch shall be hauled off site. Proper disposal is the Contractor's responsibility. If necessary, logs/vegetation shall be hauled to an authorized OEPA landfill.

As directed by the Division, Stumps shall be cut off flush with the existing ground surface prior to placement of material or grubbed, and holes graded to assure positive drainage. Approved resoil shall be used if the area can't be properly graded.

Burning of debris materials shall not be permitted on-site.

C. Measurement: Measurement for payment will be considered and measured as a unit satisfactorily completed and accepted by the Division. This measurement shall be for the entire project as one unit.

D. Payment: Payment shall be made at the contract lump sum price per **"Clearing & Grubbing."**

FILTER FABRIC

A. General: This item shall include all material, labor, and equipment necessary for the installation of the filter fabric for the base of the entrance apron & access drive that will be temporary as specified on the Drawing Plan Set.

B. Materials: The filter fabric shall be composed of strong, rot-proof polymeric fibers formed into a fabric meeting Ohio Department of Transportation Specifications, Section 712.09, Type "D".

C. Installation: At the time of installation, fabric shall be rejected if it has defects, rips, holes, flaws, deterioration, or damage incurred during manufacture, transportation, or storage. It shall be laid smooth and free from tension, stress, folds, wrinkles, or creases. The strips shall be placed to provide a minimum width of 6 inches of overlap for each side or end. Any damage to the fabric during its installation or during placement of the stone shall be replaced or repaired by the Contractor at no cost to the Division. The filter fabric shall be protected from damage due to placement of the stone or other materials by limiting the height of the drop of the material.

The Contractor shall install the filter fabric once **the subgrade has been properly prepared and approved by the Division** and prior to the stone in the areas of the entrance apron & access drive

that is required to be temporary as described on the Drawing Plan Set. The fabric shall be removed and properly disposed of by the Contractor at the completion of this project and shall be part of line item **"Filter Fabric."**

D. Measurement: Measurement shall be determined in the field by the Chief's representative with no allowance for the overlap of 6-inch recommended above. Measurement shall be based on the length and height of the underdrain/stone drain as indicated on the Drawing Plan Set.

E. Payment: Payment for all of the work specified above shall be made at the unit price per square yard for **"Filter Fabric".**

SILT FENCE

A. General: This item covers construction of silt fences and/or straw bale dikes. The Division shall designate utilization of silt fence, straw bale dikes or a combination of both at locations selected for placement.

The placement of silt fence and straw bale dikes within the limits of construction shall be at the discretion of the Division.

During the life of the project, the Contractor shall maintain these silt and erosion-control structures. Accumulated silt shall be removed when it, in the Division's opinion, may damage or reduce the effectiveness of the structure.

B. Straw Bale Dikes

1. Materials: Straw bale dikes shall be constructed with twine-bound square straw or hay bales, staked to remain in place.

2. Installation and Execution: The location of the dikes shall be as directed by the Division, at the time of construction. When the usefulness of the dikes has ended, they shall be removed and disposed of. Dikes may remain in place upon completion of the project only when permitted by the Division.

C. Silt Fence

1. Materials

a. The silt fence fabric shall conform to the ODOT Item 712.09, Type C. The silt fence shall be installed in accordance with all manufacturers' instructions.

The fabric shall be free of any treatment that might significantly alter its physical properties. During shipment and storage, the fabric shall be wrapped in a heavy-duty protective covering to protect it from direct sunlight, dirt, and other debris.

The manufacturer shall submit certified test data to cover each shipment of material.

b. The silt fence used shall be a prefabricated silt fence with fabric already attached to posts or shall be assembled in the field according to the following installation guidelines.

The fabric shall be a pervious sheet composed of a strong, rot-proof polymeric yard or fiber

oriented into a stable network, which retains its relative structure during handling, placement, and long-term service. It shall have excellent resistance to deterioration from ambient temperatures, acid, and alkaline conditions, and shall be indestructible to microorganisms and insects. The material shall be resistant to deterioration by ultraviolet light and protected until placement as recommended by the manufacturer such that no deterioration occurs. During shipment and storage, the rolls of fabric shall be protected against deterioration from the sun, mud, dirt, dust, and other harmful conditions at all times until their use.

2. Installation Guidelines for Silt Fence: Silt fence shall be installed in the following manner.

   a. First, a small toe-in trench shall be dug along the line where the silt fence is to be placed. The trench shall be a minimum of 6-inch deep and 6-inch wide. The excavated material shall be placed on the front or uphill side of the trench to facilitate backfilling later.

   b. Next, fence posts shall be driven into the back or downstream side of the trench. The posts shall be driven so that at least one-third (1/3) of the height of the post is in the ground. When installing a prefabricated silt fence with fabric attached to the posts, the posts shall be driven so that at least 6-inch of fabric shall be buried in the ground. Most prefabricated silt fences have posts spaced approximately 6 feet – 8 feet apart, which is usually adequate. If there is a low spot where most sediment tends to collect, the prefabricated silt fences can be backed up with bale backup. Posts shall be hardwood with sufficient strength to support a full load of deposited sediment.

   c. Finally, the trench shall be backfilled with the excavated material and tamped so that at least 6-inches of the fabric is securely toed into the ground to prevent under-mining.

   d. The silt fences shall be maintained throughout construction. The Contractor shall conduct regular inspections and after all heavy rains. Damaged fences must be repaired immediately.

   e. At the completion of construction and upon establishment of suitable vegetation as determined by the Division, all silt fence structures shall be removed. Areas disturbed by the removal operation including temporary access roads shall be revegetated. In general, this operation shall consist of regrading, re-fertilizing, reseeding, and mulching.

D. Measurement: Measurement for payment for the above-described work shall be made by actual field measurements of quantities satisfactorily installed and completed. When using silt fence with bale backup the measurement shall be the length of the silt fence installed, plus the length of the straw bale dike installed.

E. Payment for Silt Fence and Straw Bale Dikes: Payment for this item shall be made at the unit price per linear foot of **"Silt Fence."** The Division shall only pay for quantities of items that are completed.

No. 4 STONE

A. Description: This work covers the quality, material placement and requirements as a base course stone for project access as shown in the Drawing Plan Set.

B. Materials: The materials shall consist of sound and durable rock, gravel or stone of the proper gradation meeting ODOT specifications. The material shall be free from cracks, seams, and other

defects, which tend to increase deterioration from natural causes. It shall be highly resistant to weathering and disintegration under freezing and thawing and wetting and drying as evidenced by laboratory tests and/or service records. The Division at any time during the project may reject any materials, at the source or job site, not meeting the requirements of these specifications.

Acceptability of material will be determined by laboratory tests, visual inspection and/or service records as required by the Division. Service records will include documentation to show the material has performed satisfactorily on similar structures.

C. Installation: Upon delivery of the material to the site the Contractor shall install the material in place as directed by the Division. The Contractor shall not stockpile materials at the site.

The Contractor shall remove the topsoil prior to installation of any access road or work area stone. Topsoil shall be stockpiled adjacent to the location it is removed from. At the conclusion of the project, all topsoil will be replaced to its original location as part of the line item **"Site Restoration." Existing drives upgraded for the purpose of this work shall be restored to a condition better than prior to construction.**

The No. 4 stone shall become the property of the Landowner at the completion of the project.

D. Measurement: The material shall be measured for payment by the ton (2,000 pounds) for material acceptably placed in the work area as determined by certified scale weight tickets.

All material wasted or used by the Contractor for other purposes and any material not placed in the work area in accordance with the requirements of the work order and these specifications and drawings shall be measured and not included for payment by weight. A conversion factor of 1.5 ton per cubic yard of No. 4 Stone shall be used if necessary.

E. Payment: Payment of this work as specified above shall be made based on the unit price per ton for **"No. 4 Stone."**

No. 57 STONE

A. Description: This work covers the quality, material placement and requirements as a top course stone for the access drives as shown in the Drawing Plan Set. This material shall be placed within the current limits of the landowner's drive.

B. Materials: The materials shall consist of sound and durable rock, gravel or stone of the proper gradation meeting ODOT specifications. The material shall be free from cracks, seams, and other defects, which tend to increase deterioration from natural causes. It shall be highly resistant to weathering and disintegration under freezing and thawing and wetting and drying as evidenced by laboratory tests and/or service records. The Division at any time during the project may reject any materials, at the source or job site, not meeting the requirements of these specifications.

Acceptability of material will be determined by laboratory tests, visual inspection and/or service records as required by the Division. Service records will include documentation to show the material has performed satisfactorily on similar structures.

C. Installation: Upon delivery of the material to the site the Contractor shall install the material in place as shown on the Drawing Plan Set.

D. Measurement: The material shall be measured for payment by the ton (2,000 pounds) for material acceptably placed in the work as determined by certified scale weight tickets.

All material wasted or used by the Contractor for other purposes and any material not placed in the work in accordance with the requirements of the work order and these specifications and drawings shall be measured and not included for payment by weight. A conversion factor of 1.5 ton per cubic yard of No. 57 Stone shall be used if necessary.

E. Payment: Payment for this work as specified above shall be made based on the unit price per ton for **"No. 57 Stone."**

12" PE/PVC CULVERT

A. Description: This item covers the quality, material placement and requirements for the installation of the culvert for the temporary stream crossing. This item shall also include the removal of the pipe which shall become the property of the Contractor.

B. Materials:

1. Culvert Pipe: The culvert pipe shall be 12" corrugated N-12 HDPE smooth interior pipe or approved equal and shall meet the AASHTO M294 specification, except the average elongation shall not exceed 7.5 percent when tested as described in that specification. Manufacturer's certification shall be furnished to the Division.

2. Backfill: Backfill material shall be placed around the pipe as shown on the Drawing Plan Set. Backfill material shall be included in the unit price for **"No. 4 Stone".**

C. Installation: The Division shall verify locations prior to commencing installation. Installation shall follow all manufacturers' specifications and requirements.

The temporary culvert shall be removed at the completion of the project. **The culvert shall become the property of the Contractor at the completion of the project and shall be removed and reused or disposed of at the Contractor's expense.**

D. Measurement: Measurement of 12" PE/PVC Culvert shall be by actual linear feet of pipe installed as measured in the field.

E. Payment: The cost for work under this item, including HDPE pipe and installation, shall be at the unit price per linear foot for "**12" PE/PVC Culvert"**.

ROAD MATS (COMPOSITE)

A. Description: This item shall consist of the transportation, delivery, installation, and removal of road mats as described. The placement of road mats within the limits of construction shall be at the discretion of the Division. This item shall be utilized to protect the existing subgrade, existing utilities, driveways, roadway, curbs, sidewalks, and lawn space that will be traversed within the construction work limits. This item shall also include all work required to move between wells included in this contract, that require road mats as shown on the Drawing Plan Set.

B. Material: Road matting shall be non-permeable, composite mats. Non-permeable, composite mats

shall be a minimum of four (4) inches thick with a minimum surface dimension of seven (7) feet wide and thirteen (13) feet long. Non-permeable, composite mats and associated components (i.e. ramps, berms, and fittings) shall be installed per the manufacturer's recommendations.

All materials delivered to the site must be in a shape to be able to cover the area properly and still have the strength and integrity to complete the required work. The Division may reject any mats determined to be damaged beyond useful life or remove square footage as measured from each individual mat.

C. Execution: Mats shall be kept clean throughout the project. If it is determined by the Division, the mats do not meet this requirement the Contractor shall have any sediment or mud removed immediately.

D. Measurement: Measurement for payment for the road mats shall be made by actual field measurements of quantities satisfactorily installed at the site. Each road mat shall be measured for a square foot installed.

Road mats shall be utilized for the duration required to plug the well at each site. Only one measurement and payment shall be made for "Road Mats" upon completion of the well site.

For circumstances in which the Division extends the projected completion date (i.e. well obstructions, required milling operations, etc.), the Contractor shall also provide a cost for "Road Mats" as a dollar amount per mat per day under "Contingency Specifications" within the original Offer. Additional payment will be evaluated and determined by the Division.

E. Payment: The cost of this work shall be included in the unit price per square foot for **"Road Mats (Composite)."**

TIMBER MATS

A. Description: This item shall consist of the transportation, delivery, installation, and removal of road mats as described. The placement of road mats within the limits of construction shall be at the discretion of the Division and/or as shown on the Drawing Plan Set in order to enhance the subgrade conditions and/or for overtop utility crossings.

B. Material: Timber matting shall be composed of dense hardwood, shall be a minimum of six (6) inches thick, four (4) feet wide, and sixteen (16) feet long, and shall have a minimum of 1-1/4-inch diameter lift bolts installed at each end and through the width of the mat. The size required will vary depending on the use, see details on the drawing plan sets for variations on these sizes. **The size required will vary depending on the use (airbridge), see details on the Drawing Plan Set for variations on these sizes.**

All materials delivered to the site must be in a shape to be able to cover the area properly and still have the strength and integrity to complete the required work. The Division may reject any mats determined to be damaged beyond useful life. The following grade descriptions for used mats shall be used by the Division to determine if the materials are acceptable.

1. **GRADE A** - Visually, Grade A mats look like new mats. The timbers are still square and in excellent condition and all the mat bolts are in place and fully intact. Mats must have all bolts and timbers fully intact. Mats are less than 9 months old. Very minimal wear, no chunks out of timbers missing.

2. **GRADE B** - Essentially, Grade B mats are less pretty versions of Grade A mats. They have no structural faults; they just look a bit worn. Edges of timbers are still square, and timbers are also sound and free of rot. If one or two of the bolts are bent, they qualify as Grade B mats. These mats might also be stained, but the discoloration is not enough to affect the durability of the mat. Typically, 10-18 months of age/usage makes the mat fall into a B grade. **(All mats used to bridge over anything shall be Grade B or better and shall be as detailed on the Drawing Plan Set.)**

3. **GRADE C** - Grade C mats are not quite up to the challenges that Grade A and B mats can handle, but they still have life left in them. Grade C Mats can have a missing or pulled rod on one end of the mat. The mat still has structural integrity inside 2' from each end though. Timbers may be broken within 2' of either end but no timbers are broken inside of the 2' of each end. No hanging timbers allowed in C grade mats. As you can imagine, these are not going to be the picture-perfect image of timber mats. They might be missing numerous bolts, incurred excessive repairs, or be slightly varied in shape. Grade C mats are less expensive, but they also have a shorter life expectancy. **Any mat meeting the Grade C rating shall be measured for square footage of acceptable usable area.**

C. Measurement: Measurement for payment for the road mats shall be made by actual field measurements of quantities satisfactorily installed at the site. Each road mat shall be measured for a square foot installed.

For circumstances in which the Division extends the projected completion date (i.e. well obstructions, required milling operations, etc.), the Contractor shall also provide a cost for "Timber Mats" as a dollar amount per mat per day under "Contingency Specifications" within the original Offer. Additional payment will be evaluated and determined by the Division.

D. Payment: **The Contractor should note timber mats used for air bridges as part of the transmission line crossing require unique lengths and widths. Additional costs associated with these unique dimensions shall be incorporated into the unit price of this line item.** The cost of this work shall be included in the unit price per square foot for **"Timber Mats."**

AIRBRIDGE W/ ABUTMENTS

A. Description: This item shall consist of the transportation, delivery, installation, and removal of airbridge w/ abutments as described. The placement of airbridge w/ abutments within the limits of construction shall be at the discretion of the Division. This item shall be utilized to protect the existing stream that will be traversed within the construction work limits. This item shall include all work that require airbridge w/ abutments as shown on the Drawing Plan Set.

B. Material: Air bridge and abutments shall be composed of dense hardwood, shall be a minimum of eight (8) inches thick, four (4) feet wide, and sixteen (16) feet long, (see site plans for required lengths) and shall have a minimum of 1-1/4-inch diameter lift bolts installed at each end and through the width of the mat. Strapping material shall be a minimum of 1/4" thick x 2" wide hot rolled steel per ASTM A36 and lag bolts shall be minimum of 1/2" x 5" long.

All materials delivered to the site must be in a shape to be able to cover the area properly and still have the strength and integrity to complete the required work. The Division may reject any mats determined to be damaged beyond useful life. The following grade descriptions for

used mats shall be used by the Division to determine if the materials are acceptable.

1. **GRADE A** - Visually, Grade A mats look like new mats. The timbers are still square and in excellent condition and all the mat bolts are in place and fully intact. Mats must have all bolts and timbers fully intact. Mats are less than 9 months old. Very minimal wear, no chunks out of timbers missing.

2. **GRADE B** - Essentially, Grade B mats are less pretty versions of Grade A mats. They have no structural faults; they just look a bit worn. Edges of timbers are still square, and timbers are also sound and free of rot. If one or two of the bolts are bent, they qualify as Grade B mats. These mats might also be stained, but the discoloration is not enough to affect the durability of the mat. Typically, 10-18 months of age/usage makes the mat fall into a B grade. **(All mats used to bridge over anything shall be Grade B or better.)**

3. **GRADE C** - Grade C mats are not quite up to the challenges that Grade A and B mats can handle, but they still have life left in them. Grade C Mats can have a missing or pulled rod on one end of the mat. The mat still has structural integrity inside 2' from each end though. Timbers may be broken within 2' of either end but no timbers are broken inside of the 2' of each end. No hanging timbers allowed in C grade mats. As you can imagine, these are not going to be the picture-perfect image of timber mats. They might be missing numerous bolts, incurred excessive repairs, or be slightly varied in shape. Grade C mats are less expensive, but they also have a shorter life expectancy. **Any mat meeting the Grade C rating shall be measured for square footage of acceptable usable area.**

C. Execution: Air bridge shall be kept clean throughout the project. If it is determined by the Division the bridge surface does not meet this requirement, the Contractor shall have any sediment or mud removed immediately. The Contractor shall take care not to deposit sediment or mud in the existing stream.

D. Measurement: Measurement for the air bridge w/ abutments, which includes all materials, labor, and equipment necessary to provide the required air bridge w/ abutments will be considered and measured as a unit satisfactorily completed and accepted by the Division. Air bridge w/ abutments shall not be considered complete until the airbridge and abutments have been removed from the site at the completion of the project.

E. Payment: The cost of this work shall include all material, labor, and equipment necessary to complete the work and be made at the lump sum price for **"Airbridge w/ Abutments."**

SITE SAFETY

A. Description: The work will include the installation and implementation of safety procedures/requirements for each well site as described herein.

B. Definitions & Installation: It is the Contractor's responsibility to properly maintain all of the latter mentioned throughout the duration of the project. Any damages shall be repaired or replaced at no additional cost to the Division. Site safety measures shall be removed prior to the demobilization of the Contractor's workforce.

Any release of materials into or onto the ground or surface waters outside of the primary and/or secondary containment shall follow the Ohio One-Call System as described in Appendix I, "One Call". The Ohio One-Call System shall be contacted at 1-844-OHCALL1

within 30 minutes of becoming aware of the occurrence.

1. Notification: Due to the proximity of the wells to residences, buildings and the potential safety issues involved with the plugging procedure, the Contractor or Contractor's representative will contact the residents two weeks prior to the commencement of plugging activities to notify them of the potential safety issues.

2. Temporary Construction Fence & Posts: The temporary construction fencing shall be composite, orange mesh with a minimum overall height of four (4) feet. Fence posts are to be steel five (5) feet t-posts. Fence materials shall meet the ODOT Construction and Materials Specifications (CMS) Item 710.11.

   The posts shall be driven or set in holes to a minimum depth of one (1) foot and at intervals not to exceed ten (10) feet. The fence shall be stretched and securely fastened to each post using metal or plastic ties.

   For estimating purposes, fencing shall be placed around the entire work area. The Contractor shall work in conjunction with the Division for placement/layout of the temporary fence. All fence shall be removed at the completion of the project.

3. Identifications, Markings & Plugs: All conduits capable of allowing methane migration (i.e. ventilation pipes, storm/water drains) into the lower level of an inhabited dwelling shall be identified and capped by the Contractor.

   Any potential ignition sources within a fifty (50) foot radius shall be identified and marked by the Contractor.

   All identifications, marking and plugs shall be inspected and approved by the Division prior to commencing with any well plugging activities.

4. Air Movers (Industrial Fans): The Contractor will also be required to have onsite industrial fans or air movers **at all times** in the event natural gas is detected and found to be settling at ground level and not properly dissipating from the site (unless otherwise approved in writing from the Division).

5. Temporary Shut-In: The Contractor will shut-in the well each night after the plugging operations have ceased, unless otherwise instructed by the Division. The Contractor will continue this process until the plugging operations are complete and there are no further signs of a gas release.

6. Power/Utility Lines Safety: Utility lines cross over the access route which will require warning signs to insure awareness.

7. Emergency Response Plan: The Contractor will assemble an Emergency Response Plan (ERP) with all contact information, emergency preventative measures, and for any well-related issues that may occur. ERPs shall be submitted to the Division via email to DOGRM.EMNOTIFY@dnr.ohio.gov for approval prior to beginning work.

   The Contractor will be responsible for maintaining this ERP on site during the plugging operations. A copy of the ERP along with the SDS sheets will be stored at the project entrance

in a container labeled "ERP/SDS". Ingress/Egress for evacuation and/or public safety will be discussed in the safety meeting to be held on location by the Contractor with local responders and Division personnel. These routes will be listed in the ERP. The Division will review with the Contractor prior to the start of plugging operations.

Well Name	**Safety Measures Required**
Wise CW #6 Schaeffer Charles A #1 Sears Russell F #1 Wise Geo #1	Notification; Temporary Construction Fence & Posts; Identifications, Markings & Plugs; Air Movers; Temporary Shut-In; Emergency Response Plan
Wise CW #6 Schaeffer Charles A #1, Sears Russell F #1	Power Utility Lines Safety

C. Measurement: Measurement for payment will be considered and measured as a unit satisfactorily completed and accepted by the Division.

D. Payment: Payment for this work, including labor, installation, materials and removal shall be made at the lump sum price for **"Site Safety."**

SECONDARY CONTAINMENT

A. Description: This item shall include all labor and materials required for the installation, maintenance, and deconstruction of the secondary containment. Onsite materials and equipment required to be stored within the secondary containment shall be as follows: containers that store liquid brine, oilfield waste, and/or fuels as well as any required pumps. In determining the method, design, and capacity for secondary containment, the Contractor shall address the typical failure mode, and the most likely quantity of brine or other oil field waste substance that would be discharged.

B. Materials: The Contractor shall supply catchment basins or diversion structures to intercept and contain discharges of brine or other oilfield waste substances during the project. Materials shall consist of impermeable containers or liners made of a material that is compatible with the waste stored or used within the containment. Containment materials shall be impervious and have supporting documentation of the permeability, chemical compatibility, and other applicable QA/QC standards, is acceptable. **Use of a liner shall at a minimum be a 20-mil thickness**.

Materials shall be durable enough to support the weight of heavy equipment used for the plugging operations. Materials shall have sufficient strength and thickness to maintain the integrity of the container or liner. The container or liner shall be designed, constructed, and maintained so that the physical and chemical characteristics of the container or liner are not adversely affected by the waste and the container or liner is resistant to physical, chemical and other failure during transportation, handling, installation and use.

Liner walls shall consist of metal, wood, concrete, plastic, or approved equal. Wall materials shall be designed, constructed, and maintained to withstand the overtopping and sliding forces of secondary containment filled to capacity.

The Division shall determine the merit of the proposed materials compatibility, impermeability, integrity, and durability in determining if the material is sufficient for the project.

C. Installation: Secondary containment shall be installed prior to any drilling or liquid storage at the project site. **Secondary containment shall extend at least one foot horizontally beyond the primary containment and provide at least one foot in depth capacity or provide a minimum volume equal to 25% of the primary storage capacity.**

Upon request of the Division, the Contractor shall provide calculations in tabular format of the containment providing both the secondary containment capacity and the on-site material storage. The Division can require sections of secondary containment to be removed for inspection and sampling if a spill occurs during the project.

Installation of the containers or liners, including seams and pipe penetrations, shall be in accordance with the manufacturer's recommendations. All seams and non-seam area of the container or liner shall be inspected by the Division for defects, holes, and blisters.

Care shall be taken when operating equipment on or near the container or liner to prevent any damage to the secondary containment. If damage occurs, it shall be repaired by the Contractor at his/her expense prior to continuing the project.

The Contractor shall retain all ownership and responsibility for the secondary containment. All secondary containment shall be removed from the site and retained by the Contractor at the conclusion of the project.

D. Measurement: Secondary containment, which includes all materials, labor, and equipment necessary to provide the required secondary containment, will be considered and measured as a unit satisfactorily completed and accepted by the Division. Secondary containment shall not be considered complete until all secondary containment has been removed from the site at the completion of the project.

E. Payment: Payment for this work shall include all material, labor, and equipment necessary to complete the work and be made at the lump sum price for **"Secondary Containment."**

WELL HEAD CONTROL

A. Description: This work consists of all labor, equipment, and material necessary to excavate and evaluate existing casing(s) and to establish control of the well. This item shall include the installation of a wellhead control device/flow diverter on the most appropriate well casing as described in the plugging plans.

In the event Division UPC work has been completed on the well, resulting in surface equipment (swages, fittings, valves, gauges, etc.) being installed, the Contractor shall coordinate with the inspector in returning this equipment to the Division for future use. At no point shall the Contractor assume ownership of any surface equipment associated with the well.

B. Execution: The Contractor is responsible for installing, according to best management practices, a wellhead control device/flow diverter on the well casing. Excavation of the existing casing(s) shall be the responsibility of the Contractor. A four (4) foot minimum excavation/evaluation of the existing casing(s) shall be completed. Casing(s) requiring excavation depths exceeding four (4) feet shall be discussed with the Division prior to starting work. All excavations shall be in accordance with OSHA Construction Standards for excavation and trenching under 29CFR 1926 Subpart P.

The casing shall be free from any damage or defects. If required, the casing shall be cut and cleaned of any dirt, oil, and debris prior to welding extensions and/or installation of the diverter.

The Contractor shall supply a cellar with a cement base around the wellhead. This cellar shall be set around the well and extended up to working elevation, as the depressed area around the well head will be modified to establish workable base. This cellar shall be made of steel, concrete, or polyethylene pipe. **The cellar shall be a minimum of 48 inches in diameter. This work shall include a six (6) inch minimum of Approved Cement as specified or Portland Cement in the cellar base with a three (3) inch minimum port near the well. The port shall extend up to within three (3) inches of the well at working height and be used to monitor and contain any gas/oil escaping around the back side of the casing.**

Once a well head control device is installed, all fluids, gases and solids generated by the plugging process shall be diverted into a tank. This tank shall be set a minimum of twenty (20) feet from the well. The Contractor shall also maintain an adequate supply of well kill fluid at the well for possible well control emergencies, which shall be paid under the line item **"Well Kill Fluid."** The injection point for the kill line will be a minimum of twenty (20) feet from the well.

For the duration of this project the following wellhead control will be utilized. The wellhead control device/flow diverter assembly will have two 4.5-inch diameter discharge ports. The diverter lines running from both 4.5-inch diameter discharge ports on the wellhead assembly to the above ground steel tank will consist of two (2) – 4.5-inch diameter steel lines. Both diverter lines will have two inline valves (rated minimum 1,000 psi) for control of flow. Lines will discharge into the tank at a downward angle or at an angle that will reduce fluids from splashing or spraying out of the tank if a sustained blow is encountered while drilling out the plugged wells. These lines will be a fixed connection (i.e. hammer union, flanges) to the steel pit with equipment that is capable of withstanding the possible pressures encountered. One of the 4.5-inch diverter lines will be equipped with a 2-inch diameter port and valve that will serve as the kill line access. This port and valve will be installed between the wellhead and the 4.5-inch inline valve.

No well operations shall begin until an inspection of the prepared well has been completed by the Division.

C. Measurement: Measurement for payment shall be made by field inspection of units satisfactorily completed and accepted by the Division.

D. Payment: Payment for the above-described work, which includes all labor, materials, equipment necessary for the well head control shall be made at the cost proposal lump sum price for **"Well Head Control."**

WELL KILL FLUID

A. Description: The work covered by this section shall consist of furnishing all labor, equipment, and material necessary to provide and use weighted brine as a “kill” fluid for the drilling and plugging process of the well.

B. Requirements: The Contractor shall provide a weighted brine of sufficient density to kill the well and regain well control in the event of a sustained and/or uncontrolled wellbore kick (a rapid influx of formation fluids and/or gases into the wellbore).

Sufficient density shall be defined as dense enough to exert hydrostatic pressure greater than the anticipated formation pressure but less than the anticipated formation fracture pressure.

The Division will require a minimum of (350-375) (see plugging plan) **barrels of (9.0-9.5)**(see plugging plan) **pound-per-gallon weighted brine kill fluid be maintained at each well site throughout the plugging project for the sole purpose of killing the well to regain well control when required. Kill fluid shall be maintained onsite in a single reservoir.**

A mud pump of sufficient size/capacity shall be required to be onsite at all times during plugging operations as means to pump well kill fluid when required.

C. Measurement: Measurement for payment for the above-described work shall be made by the actual quantity of barrels (bbls) of weighted brine used as a kill fluid for the orphan well as approved by the Division. The Division will at a minimum pay for the quantity required to be maintained on site.

D. Payment: Payment for the above work shall be made at the unit price per barrel (bbls) for **"Well Kill Fluid."**

WELL PREPARATION & PLUGGING

A. Description: This work consists of all labor, equipment, and material necessary to prepare the well for plugging and completing all required plugs. This shall include cleanout, drillout, and washover of the well bore to the total depth of the well based on the well description(s) and plugging plan(s), circulating the well bore prior to each plug, setting all required plugs, and verification of each plug depth.

B. Execution: The Contractor shall supply all equipment needed to complete the well preparation in an efficient manner that will be approved by the Division. This shall include but not be limited to the rig, drill pipe, collars, mud pump (See General Specifications, Part 13 for minimum requirements), circulating fluid, cementing equipment, mix water, and associated equipment.

Cable tool/spudding rigs shall not be permitted for use unless otherwise authorized by the Division as described under the General Conditions, Part 13 “Substitution During the Project”.

Once well head control has been established, the Contractor will cleanout, drillout and/or washover and then circulate the well bore prior to setting any casing or well plugs. The Contractor shall be responsible for having a minimum of two (2) hole volumes of fluid available for circulation.

The Contractor shall identify the diameter of the well bore below the surface casing and cleanout or drillout with a full-size bit to total depth. **In addition to the full-sized bit, the Contractor shall also supply a bore brush and/or casing scraper at the appropriate size to fully clean out any casing remaining per the plugging plan.** In any case where an obstruction is encountered and total depth cannot be achieved, the Contractor shall immediately notify the Division. The Contractor shall propose a plan to assess the nature of the obstruction that shall be approved by the Division. Additional work associated with removal of the obstruction shall be described and paid for under the Contingency Specifications and as listed on the Quantity Sheet and agreed upon by the Division.

The Contractor shall trip out or up into the nearest competent cased string and secure all tools at the end of each workday or when work shall be paused for an extended time. Any tools left in the hole during such paused work shall be at the Contractor’s own risk. Any tools or tubing that are

lost due to the Contractor's failure to complete the task of tripping out during paused work times shall be at their own expense as well as any work required to then prepare the hole to continue the plugging process (this shall include but not be limited to shooting, fishing, over drilling, lost or damaged tools, etc.). The tripping out of the tools during paused work times shall be incidental to this line item.

Formations within the well bore known to be producing H_2S gas will not be circulated prior to setting a plug.

Prior to setting any plugs the Contractor shall remove all free crude oil by **circulating the wellbore two-hole volumes or until the well is static**; **a minimum of ten (10) barrels of gel is required to be run ahead of each cement plug that may come into contact with open hole formation at the discretion of the Division**. A minimum of four (4) sacks of bentonite gel per ten (10) barrels of freshwater shall be required if requested. This work shall be considered incidental to this line item. No additional payment shall be made for circumstances where the Contractor does not have the appropriate material on location.

Lost Circulation Material (LCM) may be used to aid in obtaining circulation, as approved by the Division. **Lost Circulation Material (LCM) shall NOT be used when tubing smaller than 1.5 inch inside diameter will be utilized. Circulation must be established prior to conducting cementing procedures.** LCM shall be available at the site during the completion of this line item **"Well Preparation & Plugging."** The Contractor shall provide up to **five (5) sacks of LCM per well for use** (e.g. cotton seed hulls, bentonite gel/polymer, cellophane flake) incidental to this line item). Additional need for use of LCM shall be per the **"Lost Circulation Material"** specification included in the Contingency Specification.

The well shall be in a static condition prior to beginning any cementing activities.

The Contractor shall set all plugs as described in the **Plugging Plan** to the depths described with the materials described. This shall include setting the bottom plug, intermediate plugs, and the surface plug. All plugs shall be allowed to set for the periods described in the **Plugging Plan**.

The Contractor shall be required to tag all cement tops unless otherwise approved by the Division. Tagging with a sinker bar and depth meter is recommended. Confirmation of cement tops shall be considered incidental to this line item.

If a plug has dropped or is determined to not be a competent plug, then drill out of the plug or additional staged plugs may be required at the discretion of the Division as a part of this line item. The Division reserves the right to adjust the Plugging Plan during the plugging process based on site conditions.

C. Measurement: Measurement for payment shall be made by field inspection of units satisfactorily completed and accepted by the Division.

D. Payment: Payment for the above-described work, which includes all labor, materials, and equipment necessary for the well preparation and plugging, shall be made at the lump sum price for **"Well Preparation & Plugging."**

LOGGING

A. Description: This work consists of all labor, equipment, and material necessary to determine the

total depth of the well and the casing, if a packer is present (along with its depth and thickness), determine bond quality behind the casing and the free point of the casing. The Log should also confirm zones of gas production and formation tops for cementing purposes. All cement plug depth and thicknesses will be based on log data of the first well plugged on the site.

Logs shall ONLY be ran at the discretion of the Division based on the conditions encountered regardless of the direction given in the Plugging Plan.

B. Execution: The Contractor shall complete the logging of the well bore, casing, tubing, packer, and/or cement to the depth of the existing well bore, casing, tubing, packer, and/or cement. The methods of logging to be used shall be as indicated on the individual plugging plan and may include but not be limited to **gamma ray (GR), temperature, casing collar locator (CCL), bond, and caliper log.** Prior to use, the Contractor shall propose the method of logging and shall be approved by the Division.

C. Measurement: Measurement for payment shall be made by field inspection of units satisfactorily completed and accepted by the Division. **A copy of the log shall be provided with the invoice as backup documentation.**

D. Payment: Payment for the above-described work, which includes all labor, materials, equipment necessary for the investigation of the well shall be included at the per unit price per each for **"Logging."**

SEVERING

A. Description: This work consists of all labor, equipment, and material necessary to sever a casing at a determined depth for the purpose of removing the casing string from the wellbore.

B. Execution: The Contractor shall complete the severing of the casing at a depth approved by the Division. The Contractor shall propose the material and method for severing of the casing, which shall be approved by the Division. This includes, but is not limited to, **locating free point**, ripping, shooting, or cutting.

C. Measurement: Measurement for payment shall be made by field inspection of units satisfactorily completed and accepted by the Division. **If applicable, a copy of the log shall be provided with the invoice as backup documentation.**

D. Payment: Payment for the above-described work, which includes all labor, materials, and equipment necessary for the severing the casing made at the unit price per each for **"Severing"**.

TUBING

A. Description: This item covers all labor, equipment, and material required to supply tubing at the site for the purposes of placement of cement and spacers.

B. Materials: The Contractor shall supply a 1.5-inch inside diameter (ID) or larger tubing in a condition that will allow for the pumping of cement for the purposes of plugging the well. A mud anchor and/or perforations on the bottom joint of the tubing is recommended. Any issues caused due to running tubing open ended shall be the Contractor's responsibility.

For this project the Contractor shall supply up to 2,800 feet of 1.5-inch ID or larger tubing to all the project wells.

C. Installation: The Contractor will install and remove the tubing as necessary in order to complete the **Plugging Plan.** The Contractor shall maintain ownership at the conclusion of the project of all tubing that was brought to the site for these purposes.

D. Measurement: Measurement for payment of the above-described work shall be made by actual field measurements per linear foot of tubing delivered to the site.

Tubing shall be measured as one use for the duration of the project.

E. Payment: Payment for this item shall be made at the lump sum price for **"Tubing."**

APPROVED CEMENT

A. Description: This item shall cover all labor, materials, and equipment necessary to plug the well as specified in the **Plugging Plan**.

B. Materials: Cement materials shall be approved prior to placement. The cement must conform to the following options:

a. API Class "A"
b. API Class "L"
c. ASTM C150 Type 1
d. ASTM C595 Type 1L
(Note: These are the only material options that will be approved, any other materials may be submitted to the Division for review but will **not** be approved for this project)

The cement shall contain 2% Calcium Chloride, properly blended, **only if directed** by the Division in advance of placing the cement. **Coordinate with the Division prior to ordering cement.**

The cement shall not contain bentonite or extenders which delay set time or decrease the overall compressive strength unless otherwise noted.

Additives (e.g. cotton seed hulls, cellophane flake, etc.) used for the purposes of lost circulation zones shall be considered incidental to this line item.

Water used for cementing shall be free of any impurities that will adversely affect set time and compressive strength.

C. Installation: **The Contractor shall notify the Division at least 24 hours in advance of placing the cement, including notification of the type of cement being used for approval.**

Additional wait times may be required for the type of cement used. This wait time shall be incidental to this line item. Upon approval of the type of cement the Division shall inform the Contractor of the required wait times for each staged plug.

Preparation of the well bore, including the running of gel flush ahead, shall be completed per line

item **"Well Preparation & Plugging"** prior to placement of the cement.

The cement slurry shall be mixed at the API recommendation, between 15.4 and 15.8 pounds per gallon.

The Cement shall be placed to the depths and intervals described in **Plugging Plan**. **Once a cement plug is set, the Contractor shall be prepared to allow cement to set for a minimum of eight (8) hours.**

It is the Contractor's responsibility to provide a mud scale for weighing the cement slurry.

When using API Class "L" cement or ASTM C595 Type 1L cement, all the following conditions apply:

- Mill test information must be provided to the applicable Division inspector prior to utilization of API Class L cement or ASTM C595 Type 1L cement. The mill test information must be a representative sample of the mixture of cement proposed to be used to plug the well. A person is not required to provide the mill test information if the Division already has the mill test information of the mixture of cement for a batch.

- Performance data shall be provided in compliance with Ohio Administrative Code 1501:9-11-07 prior to usage. To determine if Ohio Administrative Code 1501:9-11-07 is met, test results shall include at a minimum slurry density, composition, compressive strength, free fluids, thickening time, curing pressure, and curing temperature. The data also shall include percent limestone and percent pozzolan material.

- For blended cement containing limestone and pozzolanic material, the combination of the materials shall not exceed fifty per cent by volume.

- A sample of at least 20lbs representative of the of cement mixture proposed to be used in a well must be provided to the Division at the request of the Division.

- A person using API Class L cement or ASTM C595 Type 1L cement shall leave the plugged well in a manner that will allow for further inspection past the contract requirement of three days after the completion of the uppermost plug unless the applicable Division inspector determines that the contract requirement of three days is sufficient.

D. Setting: Setting times shall be completed as described in the **Plugging Plan.** For the surface plug any void space between the top of the cement and the top of the casing shall be filled to achieve a level cement line with the top of the casing. This shall be done at no additional cost to the Division.

The cement must develop a minimum compressive strength of 500 PSI after 24 hours at well bore temperatures. The Division reserves the right to collect test cylinders throughout the duration of the cementing process.

E. Measurement: Measurement for payment shall be based on the actual quantity of sacks of cement acceptably placed and shall be verified with delivery tickets. A sack shall be considered 94 pounds prior to mixing.

F. Payment: The above-described work shall be paid for at the unit price per sack for **"Approved Cement."**

CEMENT MIXING & PUMPING

A. Description: This item shall cover all labor, materials, and equipment necessary to mix and pump cement as specified in the **Plugging Plan**.

B. Execution: Cementing equipment required on site to mix and pump casing cement and cement plugs shall be provided until each individual casing cementing or plug cementing is completed. This shall include but not be limited to pump truck, mud pump, and associated equipment.

C. Measurement: Measurement for payment shall be for each trip to the project site in order to complete the plug(s) as described in the **Plugging Plan**. Payment for staged plugs shall be measured as one unit.

D. Payment: Payment for the above-described work, which includes all labor, materials, equipment necessary for the mixing & pumping of cement into the well shall be made at the unit price per each for **"Cement Mixing & Pumping."**

7" WORKING STRING

A. Description: This item covers all labor, equipment, and material required to utilize a working string for the plugging of the orphan well.

B. Materials: The casing shall be a 7-inch diameter casing conforming to 17 pounds per foot STC (Short Thread and Coupling) or an approved equal material specification. The Contractor shall supply the proper ranges and pup joints to complete the lengths required during installation.

Pipe shall be new pipe or used pipe that has been tested and drifted. The Contractor shall supply documentation for pipe that has been tested and drifted. The Division shall approve used pipe based on documentation and inspection of the pipe.

A 10-foot-long joint of casing equipped with a float shoe will be placed on the bottom of the casing string.

C. Installation and Execution: The casing shall set to a depth as determined in the field by the Division. This quantity is for estimating purposes only. This casing shall be temporary and utilized to progress through geologic zones that may hinder plugging operations. Resetting and removal of this pipe shall also be included in the cost for this line item.

D. Measurement: Measurement for payment for the casing work shall be made by actual field measurements of quantities satisfactorily installed and utilized per linear foot of casing set. There shall be no additional measurement/payment made for the removal of the liner casing.

E. Payment: Payment for this item shall be made at the unit price per linear foot of **"7" Working String"**.

SURFACE CASING (8.63")

A. Description: This item covers all labor, equipment, and material required to set the surface casing

for the plugging of the orphan well.

B. Materials: The surface casing shall be an 8.63-inch diameter casing conforming to a 24 pound per foot STC (Short Thread and Coupling) or an approved equal material specifications. The Contractor shall supply the proper ranges and pup joints to complete the lengths required during installation.

Pipe shall be new pipe or used pipe that has been tested and drifted. The Contractor shall supply documentation for pipe that has been tested and drifted. The Division shall approve used pipe based on documentation and inspection of the pipe.

A 10-foot-long joint of casing, equipped with a guide shoe on the bottom and a float collar on the top, will be placed on the bottom of the casing string. This shall be incidental to this line item.

C. Installation and Execution: The surface casing shall set to a depth as detailed in the **Plugging Plan** and **Quantity Sheet**. This quantity is for estimating purposes only. Prior to setting any surface casing, the Contractor shall review the plan with the Division. No surface casing shall be set without Division approval.

Drilling shall be completed with an appropriately sized drilling bit. All surface casing shall be drilled with freshwater and set in place. The Division shall not be responsible for additional materials if an alternative method or drill bit is proposed for use.

Centralizers shall be used when setting surface casing. At minimum, both the bottom and top joint of the surface casing shall be equipped with centralizers. The Division reserves the right to adjust centralizer locations and quantities as needed.

In the event that there is not a competent bottom to pump cement, the Contractor shall be required to provide and install a cement basket at the discretion of the Division. This shall be considered incidental to this line item.

D. Measurement: Measurement for payment for the surface casing work shall be made by actual field measurements of quantities satisfactorily installed and completed per linear foot of surface casing set.

E. Payment: Payment for this item shall be made at the unit price per linear foot of **"Surface Casing (8.63")"**.

SITE RESTORATION

A. Description: This work shall cover all operations incidental to the establishment of grasses within the areas disturbed by the Contractor, including the furnishing and sowing of seed; and furnishing and applying of mulch materials, all in accordance with these specifications. Additionally, this work shall include, but not be limited to, repair of grounds and vegetation, including landscaping amenities, ornamental shrubs and trees damaged in any manner during the work operations. All areas shall be properly graded to a smooth final grade with topsoil and blended into adjoining areas at the most moderate slope possible. Seedbed preparation through the use of scarifying equipment is also required. All site restoration work is to be completed within **fourteen (14) days** of the completion of the construction activities. The Contractor may request in writing to the Division an extension for site restoration. Requests shall only be granted based on season or weather conditions.

The Contractor shall contract with each of the landowner's individual landscapers to finish

this work on the properties affected. (If the landowner does not have a landscaper the Contractor will be responsible to locate a professional landscaper to complete the work.)

The area within the fields shall only use Temporary Ground Cover materials.

B. Materials: The materials to be used for restoration shall conform to the applicable requirements of these specifications.

1. Lime: Pelletized lime shall be applied at a maximum rate of 400 pounds per acre. Rates may be adjusted by the Division at the time of application.

2. Fertilizer: Fertilizer shall be commercial grade (19-19-19) and shall be applied at a rate up to a maximum of 20-lbs/1000 sq. ft. Rates may be adjusted by the Division at the time of application.

3. Seed: The varieties of grass seed to be furnished to the project shall bear a tag on each bag of each species showing the lot number, grower's name, percent of purity, percent of germination, and weed content. Tags shall be provided to the Division.

   All seeds shall be free from noxious weeds and under no condition shall the total weed content of any lot of seed or seed mixture exceed one-half of one percent by weight.

   No seed shall be utilized which has a mix date older than one year. The Division reserves the right to test, reject, or approve all seed after delivery to the project.

   Species Composition:
   Yard seed shall be applied at a rate of 10 lbs/1000 sq. ft. and shall conform to the following seed mixture ratio:

98/85 Kentucky Bluegrass	50%
Perennial Ryegrass	50%

   All areas not designated as yard, farm field, or wetland shall use the following seed mix, and shall be sown at the indicated rate. This mixture is listed by recommended planting season and for existing site conditions, and/or intended use. Further information may be found in the Agronomy Guide, Bulletin 472, Cooperative Extension Service, The Ohio State University.

GENERAL SEED MIX	lbs/acre
Orchardgrass (Dactylis glomerata)	15.0
98/85 Kentucky Bluegrass	12.0
Timothy (Phleum pratense)	12.0
Birdsfoot Trefoil (Lotus sp.)	9.0
Red Clover (Trifolium pratense)	8.0
White Clover (Trifolium repens)	7.0
Annual Ryegrass (Lolium multiflorum)	8.5
Perennial Ryegrass (Lolium perenne)	3.5
Total lbs/acre	75

   Other types of seed may be substituted if requested by the property owner(s). If such substitutions are made, they are to be made at no additional cost to the Division.

4. Mulching Material: All mulch material shall be free from mature seed-bearing stalks or roots

or prohibited or noxious weeds. Any type of hay is not acceptable. Mulch shall include baled wheat straw or oat straw. It shall be dry and reasonably free of weeds, stalks, or other foreign material.

5. Temporary Ground Cover: All crop field areas shall be seeded with Cereal Rye at a rate of 150 lbs/acre. The seed shall be broadcast over the entire disturbed area as a temporary ground cover until the next growing season. Areas of Temporary Ground Cover shall not include lime, fertilizer, or mulching requirements.

   For all required materials listed above, the Division reserves the right to request receipts, material specifications and/or weight tickets for verification.

C. Installation:

1. Start of Work: Site restoration work shall begin as soon as possible after the completion of construction. Final site restoration operations shall be completed within fourteen (14) working days of the final construction activities. The Contractor may request in writing to the Division an extension for site restoration. Requests shall only be granted based on **season or weather conditions.**

2. Area Preparation of Soil: Spread and grade available topsoil uniformly over all disturbed areas. All areas to be seeded shall be loosened by discing, harrowing, or other approved methods immediately prior to seeding. The soil shall be loosened to a depth of approximately three inches.

   Hand raking shall be required in all areas where machines do not obtain the results desired by the Division.

   Following tilling of the soil, the seedbed shall be allowed to firm up.

   All final prepared surface(s) shall have a smooth final grade and be appropriate for a residential yard, free from rocks, large dirt clumps and any other foreign debris.

   Immediately following area preparation for seeding, materials shall be applied in the following order:

   - Lime, as applicable
   - Fertilizer, as applicable
   - Seed, after broadcasting or otherwise applying the seed, the surface of the seedbed shall be loosely disturbed by hand raking, dragging, and/or cultipacking.

   Lime, fertilizer and/or seed shall be sown by approved methods that provide for uniform distribution of the mixes as specified above.

3. Mulching: Apply the equivalent of 100 pounds per 1,000 square feet of clean straw mulch. Mulch shall not be applied in areas requiring Temporary Ground Cover.

   Apply mulch to the sown area within 24 hours of seeding at the rate per square feet as specified above and spread to a uniform depth.

   The straw shall be placed in a moist condition or shall be moistened immediately after placement.

4. Maintenance and Repairs: The Contractor shall, during construction and prior to acceptance, properly care for all areas mulched and perform all mulching operations necessary to provide protection and establish growth of the seeded areas. Mulch that becomes displaced shall be reapplied at once, together with any necessary reseeding, all at no expense to the Division.

   No additional payment shall be made for acts of God, i.e. fire, flood, drought, etc.

D. Maintenance Period: The permanent planting of trees, shrubs, perennials, annuals, grasses and legumes, etc. shall be deemed to be acceptable if the species that were planted in accordance with the approved plans are established and maintained for one (1) "growing season" as defined below and meeting the following standards:

1. Growing Season: All landscaping shall be guaranteed for a period of one (1) summer growing season after planting. Planting material installed in the Fall shall be in full count and thrifty condition on the next succeeding September 15 at which time replacement shall be determined and scheduled for installation during the planting period of October 15 - December 1 of that same season. Planting material installed in the Spring shall be in full count and thrifty condition on the next succeeding May 15 at which time replacements shall be determined and scheduled for installation prior to June 1 of the same season. All plants installed in the summer shall be guaranteed for one (1) full summer and shall be in full count and thrifty condition the next succeeding September 15.

2. Acceptable Lawn/Turf Areas: A series of four (4) random line transects are to be laid out within the project boundaries. A string one hundred (100) feet long having one (1) foot graduation, shall be placed along the transect line. The person conducting the transect will then walk along the line counting only the markers which are in actual contact with the vegetation. The number of count points are to be recorded as subtotals. When the four transects are completed, the average of the four transects subtotals is then equal to the percent of vegetative cover for the project.

   a) Residential Lawns: At least one hundred percent (100%) of the land affected shall be judged to be of good quality, and "good" is defined as an area that has at least ninety percent (90%) cover.

      i. All land affected and having less than ninety percent (90%) cover shall be judged poor and deemed unacceptable; and

      ii. All areas judged to be good must have species diversity requirements of those recommended for planting.

   b) Farm & Field Turf: At least ninety percent (90%) of the land affected shall be judged to be of good quality, and "good" is defined as an area that has at least seventy-five percent (75%) cover.

      i. The remaining ten percent (10%) of the land affected shall be judged to be of fair quality, and "fair" is defined as an area that has at least fifty percent (50%) cover but less than seventy-five percent (75%) cover;

      ii. All land affected and having less than fifty percent (50%) cover shall be judged poor and deemed unacceptable; and

      iii. All areas judged to be good or fair must have species diversity requirements of

those recommended for planting.

-E. Measurement: Measurement for payment of site restoration, which includes seedbed preparation, lime, fertilizer as applicable, seeding, mulching, shall be considered and measured as a unit satisfactorily completed and accepted by the Division.

F. Payment: Payment for this work, which includes seedbed preparation, liming, fertilizing, seeding, mulching, etc., and general cleanup shall be made at the lump sum price for **"Site Restoration."**

APPROVED RESOIL

A. Description: This work shall consist of furnishing all labor, material, and equipment necessary for the hauling, spreading, and grading of the resoil material for the replacement of the removed contaminated soils. This work shall also include shaping for positive drainage and matching the surrounding contours.

B. Material: Material shall be a good quality resoil and **not** include rocks, stones, and objectionable material over three (3) inches in any one dimension. All resoil that will compose the top eighteen (18) inches of resoil at the ground surface shall be topsoil. Topsoil shall be defined as during excavation having a brown matrix color, less than 50% clay content, and enough organic materials to be generally suitable for vegetative growth.

C. Installation: Care shall be taken to keep heavy equipment off the surface material after it has been spread. If the resoiling material becomes compacted, the Contractor shall disc the material to a depth of four (4) inches at the Contractor's expense.

D. Measurement: The material shall be measured for payment by the ton (2,000 pounds) for material acceptably placed in the work as determined by certified scale weight tickets.

All material wasted or used by the Contractor for other purposes and any material not placed in the work in accordance with the requirements of the work order and these specifications and drawings shall be measured and not included for payment by weight. A conversion factor of 1.3 tons per cubic yard of resoil shall be used if necessary.

E. Payment: Payment for this work shall be made at the unit price per ton for **"Approved Resoil."**

CONTAMINATED MATERIAL DISPOSAL

A. Description: This item shall consist of removing contaminated soil and cuttings from the site for off-site disposal. Soil and cuttings to be removed shall be at the discretion of the Division and shall be disposed of at an approved EPA licensed landfill as provided by the Contractor prior to removal from the site.

B. Material:

Contaminated Soils/Cuttings/Drill Fluids: Contaminated soils, cuttings and drill fluids are defined as soils, cuttings and materials in which oil, gas, condensate, brine, plugging products, or oil field waste substances have been released in or on the land and/or materials generated by the Contractor while working on the well.

Contaminated Soils: The Contractor will excavate and properly dispose of all soils from the location that are visibly impacted with oilfield contaminants. Areas to be excavated shall be at the discretion of the Division and/or as shown on the Drawing Plan Set.

Contaminated soils shall be loaded and hauled away as they are excavated.

Cuttings/Drill Fluids: Cuttings and drill fluids generated as part of the plugging process shall be temporarily stored onsite. The Division reserves the right to require removal of these materials at any time. The Contractor shall be aware at all times of capacity limitations. Should removal of materials be required, the Contractor shall be responsible for properly cleaning onsite tanks. Any downtime associated with the removal shall be done so at no additional expense to the Division.

The Contractor shall solidify any residual fluid associated with these materials with Portland Cement or by other means approved by the Division, prior to removal as a part of this line item. Prior to solidification of contaminated materials, the Contractor shall use due diligence to remove fluids from the contaminated materials. Fluids removed from the contaminated materials shall be disposed of per line item **"Fluid Disposal."**

Soils/material deemed "contaminated" as a result of Contractor negligence during the plugging process will be removed and disposed of at the Contractor's expense. Disposal procedures will conform to all requirements stated within this line item.

C. Off-Site Disposal: Material designated as "contaminated" shall be hauled to an appropriate licensed landfill. Copies of truck weight tickets from the landfills shall be furnished within 3 days of acceptance to the Division.

No additional compensation shall be made for onsite contaminated material storage. If materials remain onsite, proper containment shall be established meeting all requirements as described in line item **"Secondary Containment"** at no additional cost to the Division. Onsite storage time shall not exceed 72 hours after plugging activities have been completed.

D. Measurement: Measurement for payment shall be verified based on quantities disposed of at the approved EPA licensed landfill. Documentation required shall include driver's haul tickets, certified scale tickets and a copy of the paid invoice from the landfill/waste facility (dollar amounts may be redacted from the invoice copy).

E. Payment: Payment shall be made at the unit price per ton for **"Contaminated Material Disposal."**

SALVAGE MATERIAL DISPOSAL

A. Description: This item shall consist of preparing, removing, and salvaging all materials from the site that have a salvage value as shown on the Drawing Plan Set or as required by the Division. All items to be salvaged shall include all surface equipment, well casing, and production equipment. Salvage items shall also include any hydrocarbon materials (oil, condensate, etc.) that have a marketable value. Salvage items shall be stored onsite within the construction project limits until removed for salvage.

B. Off-Site Disposal: Prior to removal from the site the Contractor shall supply in writing to the Division an inventory of all materials to be salvaged. On behalf of the Division, the Contractor shall salvage materials inventoried. Once materials have been salvaged the Contractor shall reimburse the Division for the salvage value per line item **"Salvage Material Reimbursement."**

At the request of the Division, surface equipment deemed as reusable shall be forfeited directly to the Division's onsite representative. This shall include but not be limited to swages, wellheads, fittings, appurtenances, etc. At no time shall salvageable material become property of the Contractor.

Prior to disposal of any salvage materials from the project site, **the Division will complete a radiological assessment** of salvage materials that have been provided on an inventory to the Division.

The Division shall be given a minimum of two (2) working days notice to complete the assessment. Salvage materials staged on the project site shall be staged on a pipe rack where determined applicable by the Division. Salvage materials shall be on an impervious liner that will collect any residual fluids or scale.

Any materials which exceed 50 micro- Roentgen per hour (μR/hr) or deemed by Division staff to be radioactive shall not be considered for "Salvage Material Disposal"; instead this material shall be considered "Radioactive Material Disposal" and be disposed of per ton at a negotiated change order rate agreed upon by the Division or at a rate originally agreed upon on the Offer Sheet.

Prior to disposal of any salvage materials the Contractor shall prepare, including cleaning, the salvage materials for lawful salvage.

All salvageable material shall be cleaned onsite. The final product shall be non-hazardous and, in a condition, to not cause offsite pollution/contamination during transport and/or disposal. Any downtime associated with proper decommissioning shall be considered incidental to this line item.

C. Execution: The Contractor shall include in this line item any expense incurred with the removal and the salvaging.

D. Measurement: Measurement for payment shall be made by field inspection of units satisfactorily completed and accepted by the Division.

E. Payment: Payment shall be made at the lump sum price for **"Salvage Material Disposal."**

FLUID DISPOSAL

A. Description: This item shall consist of removing and disposing of the fluid generated from the well plugging process. Fluids to be removed shall be at the discretion of the Division and shall be injected at an approved Class II disposal well as provided by the Contractor prior to removal from the site.

B. Material: Materials will be defined below as described for the purposes of this scope of work.

Contaminated Fluids: Contaminated fluid will be considered as all fluids used in the circulation of the well bore, fluids utilized as a "kill" substance and/or fluids generated from the well. The Division reserves the right to deem a fluid "contaminated" at its discretion.

Contaminated fluids are further defined as water that contains quantifiable concentrations of oil, natural gas(es), condensate, brine, plugging products, or other oil field waste substances.

Freshwater: Water that has not been classified as contaminated fluid and has been stored in an uncontaminated container shall be visually inspected for oil sheen, and field tested for pH and

chlorides. The chloride concentration shall be less than 250 mg/L and the pH shall be within a range of 6.5-8.5 standard units (SU). If water is deemed as freshwater based on these inspections and tests, the Contractor may discharge freshwater into or onto the land in an appropriate manner. Freshwater disposal shall not be paid for under this line item **"Fluid Disposal."**

C. Off-Site Disposal: Fluids designated as "contaminated" shall be hauled to an appropriate Class II disposal well. Proof of disposal from the disposal well shall be furnished within three (3) days of acceptance to the Division.

No additional compensation shall be made for onsite fluid storage. If contaminated fluids remain onsite, proper containment shall be established meeting all requirements as described in line item **"Secondary Containment"** at no additional cost to the Division. Onsite storage time shall not exceed 72 hours after plugging activities have been completed.

D. Measurement: Measurement for payment shall be verified based on documentation proof of a quantity of disposal from the disposal well utilized. Documentation required shall include driver's haul tickets, fluid disposal tickets and a copy of the invoice paid from the Class II disposal well (dollar amounts may be redacted from the invoice copy).

E. Payment: Payment shall be made at the unit price per barrel for **"Fluid Disposal."**

GAS LINE ABANDONMENT

A. Description: The work covers all labor, equipment, and material required for abandoning the existing gas lines associated with the orphan well.

B. Execution: The flushing of the line shall be accomplished by an approved method submitted to the Division prior to the initiation of work. The Contractor shall submit a plan to the Division, which fully details the proposed method for flushing the line. This plan shall include the following:

1. Flushing equipment;
2. Pumping equipment (if necessary);
3. Size and capacities of holding sumps;
4. Method for cementing or grouting in the ends of the line;
5. Method for permanently capping the ends of the line

The Contractor shall excavate and expose the gas line at each end as shown on the Drawing Plan Set or as determined in the field. If it is determined that holding sumps will be used upon excavation, the Contractor shall sever the line and temporarily line the entire excavated area(s). Liner materials shall be impervious and have supporting documentation of the permeability, chemical compatibility, and other applicable QA/QC standards, is acceptable. Use of a liner shall at a minimum be a 20-mil thickness.

The Contractor shall notify the Division 24 hours in advance of flushing the line.

Once the liners are in place, the Contractor shall begin flushing line toward the well with freshwater. Freshwater shall be continually flushed through the line until fluid discharge is observed at the outlet end and no residual oil/gas waste is observed. All generated residuals and fluids shall be properly removed and disposed of per line item "Fluid Disposal" and/or "Contaminated Material Disposal."

If after several attempts the Contractor is unsuccessful in achieving fluid at the outlet end, the Division may authorize the Contractor to cease operations and cement/grout the ends of the line.

The cement or grout shall be included in the unit price line items **"Approved Cement" or "Nine Sack Grout"**. **All other costs for pumping shall be incidental to this line item.** Care shall be taken to ensure the line is not over filled as to cause cement or grout to fill beyond the line itself. Once the end is cemented the Contractor shall cap the line. This shall be solely at the discretion of the Division.

C. Measurement: Measurement for payment shall be made by field inspection of units satisfactorily completed and accepted by the Division.

D. Payment: Payment for this work, including equipment, labor, installation, and materials shall be made at the lump sum price for **"Gas Line Abandonment."**

DETAILED SPECIFICATIONS
FIXED PRICE ITEMS
(Values set by the Division.)

SALVAGE MATERIAL REIMBURSEMENT

A. Description: This item shall consist of reimbursing the Division for all materials removed from the site for salvage including all surface equipment, well casing, tubing, production equipment, and marketable hydrocarbons.

B. Reimbursement: The Contractor shall supply salvage receipts to the Division for materials inventoried and removed from the site for salvage. The Division shall use these receipts as deduction of payment that will be represented on the Offer for this line item for this project.

C. Measurement: Measurement shall be made by salvage receipts amounts.

D. Payment: Deduction shall be entered as an amount for **"Salvage Material Reimbursement."**

CROP DAMAGE

A. Description: This work covers the payment to the owner of the crops on the property for the crop damage/lost yields required to complete the project. The owner of the crop may be the property owner or a tenant of the property owner, either way it must be verified with the landowner who the owner of the crop is prior to making the payment.

B. Execution: The Contractor will verify with the property owner the owner of the crop on each property. The owner of the crop shall receive payment for the damages associated with plugging the wells. If it is verified that the crops are all the same owner, one payment for all the wells on that property may be paid to the owner of those crops.

The Contractor shall directly pay the owner of the crop. The Contractor shall pay the balance of money due to the crop owner prior to the request of final payment from the Division. Receipt of payment (i.e., landowner waiver) from the landowner shall be furnished to the Division. Final payment will not be made to the Contractor without receipt.

C. Measurement: Crop damage shall be measured on a per acre base. Areas for crop damage have been predetermined by the Division according to the construction work limits as shown on the Drawing Plan Set. Any crop damage that occurs outside of these limits shall be paid for by the Contractor.

D. Payment: Payment for this work as specified above shall be made based on the unit price per acre for **"Crop Damage."** For corn crops the damages shall be based on a prime farmland yield of 192.7 bushels per acre of corn crop at a market value of $4.49 per bushel or $866.00 per acre. For soybean crops the damages shall be based on a prime farmland yield of 53.9 bushels per acre of soybean crop at a market value of $11.66 per bushel or $629.00 per acre.

TREE REPLACEMENT

A. Description: This work shall cover all operations incidental to the replacement of trees and shrubs within the project areas. The work shall include all equipment, labor, and materials to replace the tree/shrub material required to be removed to complete the project. This work shall be completed within **fourteen (14) days** of the completion of the construction activities. The Contractor may request in writing to the Division an extension for site restoration. Requests shall only be granted based on season or weather conditions.

B. Materials: The materials to be used for tree and shrub replacement shall conform to the applicable requirements of these specifications. For each tree and shrub cut down or damaged due to unavoidable work near the tree that tree and shrub shall be replaced at the direction of the Division. The Division at any time during the project may reject any materials, at the source or job site, not meeting the requirements of these specifications.

1. Planting Soil: Backfill all tree pits with approved planting soil in accordance with ODOT CMS 661.09 and details. Place twelve (12) inches of approved planting soil in accordance with ODOT CMS 661.09 and details in all shrub planting beds.

   Planting soil shall be included in this line item.

2. Landscape Species:

   ACER saccharinum (Silver Maple) 2" caliper Balled and Burlapped (B&B)
   QUERCUS bicolor (Swamp White Oak) 2" caliper B&B
   PYRUS 'Barlett' – 6', No. 5. Container, four (4) total
   Or similar native species requested by landowner.

   All plants shall be healthy, of normal growth, well rooted, free from disease and insects. Quality and size of plant material shall conform to ANSI Z60.1: "American Standards for Nursery Stock", current edition. Plants shall be in a healthy and vigorous condition, free of dead or broken branches, scars that are not completely healed, frost cracks, disfiguring knots, broken or abraded bark, redundant leaders or branches, or aberrations of any kind. Plants shall not have multiple leaders unless otherwise noted.

   Balled and Burlapped, (B&B), plants shall be dug with a firm root ball of natural earth, of a size proportion to the plant's size, as measured by caliper, height or spread. B&B plants shall be handled only by the rootball, not by the trunk or branches. Container plants shall have been established for a minimum of one full growing season in their containers before installation. Container plants shall be handled only by the container. Any plants damaged after delivery by improper handling or care will be rejected and must be removed offsite and replaced.

   Plants shall be protected from drying out during shipping with tarpaulins or other coverings. Plants shall be protected from drying out after delivery by planting immediately. If this is not possible, plants shall be stored in a location protected from sun and wind and the rootballs shall be covered with mulch or earth and watered frequently to keep moist until planting.

   Anti-desiccant/anti-transpirant shall be in liquid form and comply with ASTM specification E-96, (such as "Wilt-Proof" or other approved equal). Wood dressing shall be Cabot tree paint or approved equivalent.

3. Mulching Material: Mulch shall be double shredded mulch at all planting beds. Mulch color

shall be natural and not dyed. Contractor shall submit mulch samples to the Division for approval prior to installation.

4. Fertilizer: Commercial fertilizer shall be a complete, slow-release fertilizer meeting applicable state laws and shall analyze 5-10-5 or 10-20-10. Analysis of fertilizer shall be as follows, 5-10-5 for example; 5 percent total nitrogen, 10 percent available phosphoric acid, and 5 percent total potash.

5. Tree Bracing: Tree bracing shall be flexible, biodegradable ties. All tree stakes shall be 2"x2"x30" hardwood.

C. Installation:

1. Start of Work. Tree and shrub replacement shall begin as soon as possible after the completion of construction. The Contractor may request in writing to the Division an extension for site restoration. Requests shall only be granted based on **season or weather conditions.**

   The contractor shall maintain and preserve all trees and shrubs not being removed. This shall include protection of the root zone from compaction or disturbance.

   The general contractor shall submit a planting schedule with projected dates for preparation of plant beds, installation and seeding. The general and landscape contractor shall coordinate their work to allow sufficient time for the landscape contractor to perform their work during the optimal seasonal conditions. In the event that the project is delayed or significant areas are not ready to allow plantings to be installed during correct weather or soil moisture conditions or with sufficient time to allow the plants to become established before fall and winter, the Division reserves the right to delay planting until the following season.

2. Area Preparation of Soil. The planting soil shall be used as backfill for tree and shrub planting. This soil shall also be placed in the bottom of the root pit and tamped firmly to avoid settlement. Fill soil around the ball of the plant and water thoroughly. Prepare a raised earth basin as wide as the planting pit around each plant. Water again immediately after planting by filling the basin around each plant with water, taking care not to disturb the backfill. Water to the extent necessary to ensure that there are no air pockets around the rootball and that the rootball and backfill are thoroughly saturated. Normal planting times are as follows:

Deciduous trees and shrubs -	October 15 to December 1
	March 1 to May 15
Evergreen trees and shrubs -	September 1 to November 10
	March 1 to May 15

   Deciduous trees and shrubs can be planted later than December 1 providing that the ground is not frozen and with approval of the Division.

3. Mulching. Provide a minimum of three (3) foot diameter, two (2) inch thick of mulch bed around each individual tree.

4. Fertilizer. Fertilizer to be added at the following rates.
   Trees: – ½ lb. of actual nitrogen per 500 S.F tree pit area
   Shrubs: - ½ lb. of actual nitrogen per 100 S.F. of bed area
   Groundcovers/Perennials: - ¼ lb. of actual nitrogen per 100 S.F. of bed area

5. Tree Preparation/Bracing. Install loose fittings ties that will not girdle the trunk. Ensure that the tie will allow trunk movement and growth.

   Apply a pre-emergent herbicide, pendimethalin or approved similar to tree, shrub, and groundcover areas in accordance with manufacturer's written recommendations. **DO NOT APPLY TO SEEDED OR WETLAND AREAS.**

   Remove all sales tags, strings, straps, wire, rope, or other materials that may inhibit plant growth both above and below the surface of the soil.

   Remove any broken, suckering, diseased, crisscrossed branches back to live leader or side lateral with a flush cut.

   All trees shall be braced and mulched as per details and these specifications at the time of installation.

   The contractor shall be responsible to properly water all plant material immediately upon planting.

6. Maintenance and Repairs. The Contractor shall, during construction and prior to acceptance, properly care for all plantings.

D. Maintenance Period. The permanent planting of trees and shrubs shall be deemed to be acceptable if the species that were planted in accordance with the approved plans are established and maintained for one (1) "growing season" as defined below and meet the following standards:

3. Growing Season: All landscaping shall be guaranteed for a period of one (1) summer growing season after planting. Planting material installed in the Fall shall be in full count and thrifty condition on the next succeeding September 15 at which time replacement shall be determined and scheduled for installation during the planting period of October 15 - December 1 of that same season. Planting material install in the Spring shall be in full count and thrifty condition on the next succeeding May 15 at which time replacements shall be determined and scheduled for installation prior to June 1 of the same season. All plants installed in the summer shall be guaranteed for one (1) full summer and shall be in full count and thrifty condition the next succeeding September 15.

4. Severe Decline of a Tree or Shrub: shall be defined as the death of a major leader or 50 percent of the crown of a tree or shrub or dieback of a plant to the ground, even if that plant is still alive.

E. Measurement: Measurement for payment of site restoration, which includes all plant material, digging, installation costs including topsoil, mulch, bracing, fertilization, including removal of all staking at the end of the warranty period shall be incidental to this line item.

F. Payment: Payment for this work, which includes all plant material, digging, installation costs including topsoil, mulch, bracing, fertilization, including removal of all staking at the end of the warranty period shall be made at the unit price per each for **"Tree Replacement."**

PROFESSIONAL SERVICES (MUD ENGINEER)

A. Description: This work shall be for professional services provided by a Certified Mud Engineer

(also known as a "Drilling Fluids Engineer") and outline the responsibilities, deliverables, performance metrics, and contractual obligations for managing the drilling fluid system used during oil and gas clean/drill out and plugging operations.

B. Execution: The Mud Engineer shall be responsible for the comprehensive management of the drilling fluid system to ensure safe, efficient, and environmentally compliant clean/drill out operations. Services may include, but not be limited to, the following:

- **Drilling Fluid Program Design:** Reviewing geological data and well specifications to design an effective drilling fluid program (fresh water, or brine).
- **Fluid Monitoring and Maintenance:** Regularly testing and monitoring mud properties (viscosity, density, pH, fluid loss, rheology, etc.) to keep them within programmed specifications.
- **Chemical Management:** Determining the correct dosage of additives, supervising chemical mixing, and managing the logistics and inventory of all mud materials and chemicals.
- **Troubleshooting and Optimization:** Diagnosing and resolving fluid-related issues such as lost circulation, wellbore instability, stuck pipe prevention, and contamination events (e.g., cement, salt, CO2, H2S).
- **Solids Control Optimization:** Collaborating with the drilling crew to ensure the optimal performance of solids control equipment (shakers, desanders, centrifuges) to minimize drill solids and waste volumes.
- **HSE Compliance:** Adhering strictly to all health, safety, and environmental (HSE) regulations regarding chemical handling, waste management, and disposal.

C. Deliverables and Reporting: The Mud Engineer shall provide the following deliverables:

- **Daily Mud Reports (DMR):** Detailed daily reports submitted to the Division summarizing fluid properties, chemical usage, treatments, and upcoming requirements.
- **End-of-Well Recap Reports:** A comprehensive report summarizing fluid performance, costs, lessons learned, and recommendations for future wells, submitted within one week after well completion.
- **Cost Tracking:** Regular, accurate actual costs.
- **Safety Documentation:** Ensure Material Safety Data Sheets (MSDS) for all chemicals are current, accessible, and understood by rig personnel.

D. Measurement: Measurement for payment will be considered and measured as a unit satisfactorily completed and accepted by the Division. Measurement of personnel time shall only be counted when the personnel are on-site working diligently to complete the work required. All equipment and field-testing supplies shall be included in the unit rate of the Mud Engineer.

Travel and Per Diem will be at the discretion of the Division. Per Diem shall be paid on a per person basis. Per Person Per Diem will only be paid when work requires overnight travel.

E. Payment: Payment for this work shall be made at the fixed unit price per each for "**Professional Services (Mud Engineer)**" based upon the actual cost incurred by the Contractor and accepted by the Division.

CONTINGENCY SPECIFICATIONS

CONTINGENCY SPECFICATIONS WILL ONLY BE DIRECTED VIA A FIELD ORDER FROM THE DIVISION. THE FIELD ORDER WILL DEFINE THE QUANTITY APPROVED. CONTINGENCY SPECIFICATION USE WILL BE DETERMINED BASED ON-SITE CONDITIONS THAT ARE DETERMINED BY THE DIVISION.

ADDITIONAL CIRCULATION FLUID

A. Description: This work shall consist of furnishing all labor, equipment, and material necessary to provide additional circulation fluid for the drilling and plugging process for the well.

B. Requirements: The Contractor shall receive prior approval from the Division before bringing additional circulation fluid onsite. The fluid type shall be as listed below and based on the requirements of the original plugging plan.

Freshwater: Freshwater brought to location shall be free of oil sheen, and field tested for pH and chlorides. The chloride concentration shall be less than 250 mg/L and the pH shall be within a range of 6.5-8.5 standard units (SU).

Brine: A mixture composed of water and dissolved salts at a required density defined in the Plugging plan. Prior to supplying additional brine to location for use as a circulation fluid, the Contractor shall confirm the required density.

Fluid type, characteristics and quantities shall be confirmed with the Division prior to bringing onsite.

C. Measurement: Measurement for payment for the above-described work shall be made by the actual quantity of barrels (bbls) used to successfully plug and/or drill the orphan as approved by the Division.

D. Payment: Payment for the above work shall be made at the unit price per barrel (bbls) for **"Additional Circulation Fluid (Freshwater)** and/or **Additional Circulation Fluid (Brine)."**

WELL CASING TAP

A. Description: This work consists of all labor, equipment, and material necessary to establish pressure relief control of the well. This item shall include the installation of a tap and valve onto the existing well casing as determined by the Division in the field.

B. Execution: The Contractor is responsible for tapping the well casing, installing a new valve and "relieving" the well of any pressure according to best management practices.

All components associated with the tapping process shall be of size to properly fit the steel casing

of interest and be able to withstand a minimum gas pressure of 1000 psi.

The Division shall make the determination for the overall exposed depth of casing. The casing shall be free from any damage or defects. If required, the casing shall be cleaned of any dirt, oil, and debris prior to the installation of the saddle. At the discretion of the Division, further investigation of the well may be required to determine the adequacy of casing. This shall be paid for under line item **"Logging"**.

After the well casing is cleaned and the saddle is installed, the Contractor will then install the valve and all associated appurtenances. Upon approval from the Division, the Contractor may tap the casing. After tapping, the Contractor shall remove the tap along with the generated "coupon" and close the installed valve.

Once the valve is operational, the Contractor shall attach a 2-inch diameter (minimum) line to the valve which will be placed into a tank. This tank will be set a minimum of twenty (20) feet from the well. The Contractor will then slowly open the valve to relieve the pressure in the well. All fluids, gases and solids generated during this process will be diverted into the tank.

No plugging operations shall begin until the well pressure has ceased, and a satisfactory inspection of the well has been completed by the Division.

C. Measurement: Measurement for payment shall be made by field inspection of units satisfactorily completed and accepted by the Division.

D. Payment: Payment for the above-described work, which includes all labor, materials, equipment necessary for the well tap, valve and "relieving" process shall be made at the unit price per each for **"Well Casing Tap"**.

CONDUCTOR CASING (10.75")

A. Description: This item covers all labor, equipment, and material required to drive/set the conductor in order to begin the plugging procedure.

B. Materials: The conductor shall be a 10.75-inch diameter casing conforming to a 40.5 pound per foot minimum STC (Short Thread and Coupling) or an approved equal material specifications. The Contractor shall supply the proper ranges and pup joints to complete the lengths required during installation.

Pipe shall be new pipe or used pipe that has been tested and drifted. The Contractor shall supply documentation for pipe that has been tested and drifted. The Division shall approve used pipe based on documentation and inspection of the pipe.

A 10-foot-long joint of casing, equipped with a guide shoe on the bottom and a float collar on the top, will be placed on the bottom of the casing string. This shall be incidental to this line item.

C. Installation and Execution: The Contractor shall propose the method for driving casing. Prior to execution, this method and a proposed depth shall be approved by the Division. Quantities listed are for estimating purposes only. All conductors shall be driven in place to refusal.

D. Measurement: Measurement for payment for the conductor work shall be made by actual field

measurements of quantities satisfactorily installed and completed per linear foot of conductor set.

E. Payment: Payment for this item shall be made at the unit price per linear foot of **"Conductor Casing (10.75")"**.

SURFACE CASING (10.0")

F. Description: This item covers all labor, equipment, and material required to set the surface casing for the plugging of the orphan well.

G. Materials: The surface casing shall be an 10.0-inch diameter casing conforming to a 38.0 pound per foot STC (Short Thread and Coupling) or an approved equal material specifications. The Contractor shall supply the proper ranges and pup joints to complete the lengths required during installation.

Pipe shall be new pipe or used pipe that has been tested and drifted. The Contractor shall supply documentation for pipe that has been tested and drifted. The Division shall approve used pipe based on documentation and inspection of the pipe.

A 10-foot-long joint of casing, equipped with a guide shoe on the bottom and a float collar on the top, will be placed on the bottom of the casing string. This shall be incidental to this line item.

H. Installation and Execution: The surface casing shall set to a depth as detailed in the **Plugging Plan** and **Quantity Sheet**. This quantity is for estimating purposes only. Prior to setting any surface casing, the Contractor shall review the plan with the Division. No surface casing shall be set without Division approval.

Drilling shall be completed with an appropriately sized drilling bit. All surface casing shall be drilled with freshwater and set in place. The Division shall not be responsible for additional materials if an alternative method or drill bit is proposed for use.

Centralizers shall be used when setting surface casing. At minimum, both the bottom and top joint of the surface casing shall be equipped with centralizers. The Division reserves the right to adjust centralizer locations and quantities as needed.

In the event that there is not a competent bottom to pump cement, the Contractor shall be required to provide and install a cement basket at the discretion of the Division. This shall be considered incidental to this line item.

I. Measurement: Measurement for payment for the surface casing work shall be made by actual field measurements of quantities satisfactorily installed and completed per linear foot of surface casing set.

J. Payment: Payment for this item shall be made at the unit price per linear foot of **"Surface Casing (8.63")"**.

DOWNHOLE VIDEOGRAPHY

A. Description: This work consists of all labor, equipment, and material necessary to video record the

well bore to assess the well bore obstruction.

B. Execution: The Contractor shall supply all equipment needed and complete the videography recording of the well bore to the depth of the current obstruction. The Contractor shall supply the Division with an electronic copy of the videography recorded in a format viewable in readily available current software.

The Division is not obligated to provide camera services to the Contractor. At no point shall the Division be responsible for delays associated with availability of camera runs.

C. Measurement: Measurement for payment shall be made by the delivery of an acceptable video and photos to the Division of the current obstruction. Measurement shall be per obstruction, not per video or photo.

D. Payment: Payment for the above-described work, which includes all labor, materials, equipment necessary for the video recording of the current obstruction made at the per unit price per each for **"Downhole Videography"**.

FISHING

A. Description: This work consists of all labor, equipment, and material necessary to remove and/or clear the well bore as needed to reach total depth by the means of fishing the obstruction in the well bore.

B. Execution: The Contractor shall supply the equipment needed to complete the fishing in an efficient manner that will be approved by the Division. This shall include but not be limited to the rig, impression blocks, and associated equipment. **This shall not include the fishing tools required to complete this work. The Division will develop a negotiated change order to deliver and use the appropriate fishing tools required based on the unforeseen conditions.** Appropriate fishing tools shall be provided for the circumstances encountered.

C. Measurement: Measurement for payment shall be made by field inspection of the actual quantity of hours in which the drilling rig and other fishing equipment were diligently operating in a manner to remove the obstruction.

D. Payment: Payment for the above-described work, which includes all labor, materials, and equipment necessary for the obstruction removal, shall be made at the unit price per hour for **"Fishing"**.

MILLING/DRILLOUT

A. Description: This work consists of all labor, equipment, and material necessary to remove an obstruction from inside the wellbore or casing as needed to reach a required depth by means of milling/drilling.

This work may include removing metal, cement, grout, wood plugs, failed cement plugs and/or other materials in which typical cleanout operations failed to remove.

B. Execution: The Contractor shall supply the equipment needed to complete the work in an efficient manner that will be approved by the Division. This shall include but not be limited to the rig, a mud pump, power swivel/power sub, drill string (including collars and casing or tubing) and associated

equipment.

This shall not include the bits required to complete this work. The Division will develop a negotiated change order to deliver and use the appropriate bit(s) required based on the unforeseen conditions. Bit types shall be based on the type of material encountered. Bits shall be factory made unless otherwise approved in writing by the Division.

C. Measurement: Measurement for payment shall be made by field inspection of the actual quantity of hours in which the drilling rig and equipment were diligently operating in a manner to remove the obstruction.

D. Payment: Payment for the above-described work, which includes all labor, materials, equipment necessary for the obstruction removal shall be made at the unit price per hour for **"Milling/Drillout"**.

MAGNET

A. Description: This work consists of all labor, equipment, and material necessary to supply a magnet and the required subs as the fishing tool.

B. Execution: The Contractor shall supply all equipment needed for a magnet fishing tool to be used for fishing out the well bore to the depth of the current obstruction and extracting it. This shall include but not be limited to the rig, subs, and associated equipment. Appropriate tools shall be provided for the circumstances encountered. The work to complete the fishing shall be per line item **"Fishing"**.

C. Measurement: Measurement for payment shall be made by the delivery of the magnet to extract the obstruction as satisfactorily completed and accepted by the Division.

D. Payment: Payment for the above-described work, which includes all labor, materials, and equipment necessary to supply the magnet to extract the obstruction, shall be made at the per unit price per each for **"Magnet"**.

SHOOTING

A. Description: This work consists of all labor, equipment, and material necessary to sever/shoot a casing or tubing at a determined depth for the purpose of removing the casing or tubing string by the means of shooting.

B. Execution: The Contractor shall complete the shooting of the casing or tubing at a depth approved by the Division. This work shall include logging the well with a standard logging suite at the discretion of the Division to locate free point of casing or tubing in the well.

The Contractor shall propose the material and method for shooting of the casing or tubing, which shall be approved by the Division.

C. Measurement: Measurement for payment shall be made by field inspection of units satisfactorily completed and accepted by the Division. **A copy of the log shall be provided with the invoice as backup documentation.**

D. Payment: Payment for the above-described work, which includes all labor, materials, equipment necessary for the shooting the casing or tubing made at the unit price per each for **"Shooting"**.

CUTTING

F. Description: This work consists of all labor, equipment, and material necessary to sever/cut a casing or tubing at a determined depth for the purpose of removing the casing or tubing string by the means of cutting.

G. Execution: The Contractor shall complete the cutting of the casing or tubing at a depth approved by the Division. The Contractor shall propose the method for cutting of the casing or tubing and shall be approved by the Division.

H. Measurement: Measurement for payment shall be made by field inspection of units satisfactorily completed and accepted by the Division.

F. Payment: Payment for the above-described work, which includes all labor, materials, equipment necessary for the cutting of the casing or tubing made at the unit price per each for **"Cutting"**.

NINE SACK GROUT

A. Description: This work shall include furnishing all labor, materials, equipment, and supplies necessary to plug the well as specified in the **Plugging Plan**.

B. Materials: Nine Sack Grout shall consist of the following materials and requirements:

Constituent	SSD Weight (lbs.)	Volume ($ft.^3$)
Cement Type I-II	846.00	4.30
Sand	2550.00	15.54
Water	417.00	6.68

(SSD means saturated surface dry)

1. Cement Type I-II: Cement shall conform to ODOT CMS Item 701.02 and 701.04.

2. Sand: Sand shall be in accordance with ASTM C150.

3. Water: Water shall be in accordance with ASTM C1602.

The grout shall contain a maximum of 1% entrapped air.

Grout shall have a water to cement ratio (W/C) equal to 0.50 and an overall unit weight of 142.30 pounds per cubic foot.

Slump tests may be done at the discretion of the Division. Slump requirements shall be determined in the field at the time of construction.

The Division has accounted for excess materials due to loss in the wellbore in the quantities on the **Quantity Sheet**.

C. Installation: **The Contractor shall notify the Division at least 24 hours in advance of placing grout.** The surface plug shall be grouted to the depth described in the **Plugging Plan**.

Well preparation and circulation shall be achieved as detailed in the **"Well Preparation & Plugging"** line item and the **Plugging Plan**.

D. Setting: Setting times shall be completed as described in the **Plugging Plan.** For the casing any void space between the top of the grout and the top of the casing shall be filled to achieve a level grout line with the top of the casing. This shall be done at no additional cost to the Division.

E. Measurement: Measurement for payment for the above-described work shall be based upon material quantities satisfactorily installed as well as delivery tickets furnished to the Division.

F. Payment: Payment for all the above-described work shall be made at the unit price per cubic yard for **"Nine Sack Grout."**

GROUT PUMPING

A. Description: This item shall cover all labor, materials, and equipment necessary to pump grout as specified in the **Plugging Plan** for the required distance needed as determined by field conditions.

B. Execution: Grouting equipment required on site to pump grout plugs shall be provided until each individual plug grouting is completed. This shall include but not be limited to pump, and associated equipment.

C. Measurement: Measurement for payment shall be made by field inspection of units satisfactorily completed and accepted by the Division.

D. Payment: Payment for the above-described work, which includes all labor, materials, equipment necessary for the pumping of grout into the well shall be made at the cost proposal per unit price per each for **"Grout Pumping."**

SIPHON PIPE

A. Description: This item covers all labor, equipment, and material required to supply pipe at the site for the purpose of a siphon if the well bore cannot be bailed prior to the placement of cement. The Contractor shall submit a plan to the division for approval prior to the seven-day notice of mobilization to the site.

B. Materials: The Contractor shall supply the pipe in a condition that will allow for siphoning for the purposes of plugging the well.

For this project the Contractor shall supply up to 1,000 feet of pipe.

C. Installation: The Contractor will install and remove the pipe as necessary in order to complete the **Plugging Plan.** The Contractor shall maintain ownership at the conclusion of the project of all pipe that was brought to the site for these purposes.

D. Measurement: Measurement for payment of the above-described work shall be made by actual field measurements per linear foot of pipe delivered to the site.

Pipe shall be measured as one use for the duration of the project.

E. Payment: Payment for this item shall be made at the cost proposal lump sum price for **"Siphon Pipe."**

LOST CIRCULATION MATERIALS

A. Description: This work shall include furnishing all labor, materials, equipment, and supplies necessary to expose portions of the well bore to lost circulation materials (LCM) as determined necessary. Lost circulation materials shall be implemented to aid in obtaining well bore circulation prior to any cementing operations.

B. Materials: Lost circulation materials shall be selected by the Contractor based on site conditions encountered and proposed to the Division for approval.

C. Measurement: Measurement for payment shall be based on the actual quantity of sacks of lost circulation materials satisfactorily placed and shall be verified with delivery tickets. For estimating purposes, it has been assumed that one (1) sack is equal to fifty (50) pounds.

D. Payment: Payment for all the above-described work shall be made at the unit price per sack for **"Lost Circulation Materials"**.

DRILLING MUD

A. Description: The work covered by this section shall consist of furnishing all labor, equipment, and material necessary to provide and use a water-based drilling mud for the drilling and plugging process of the well.

B. Materials: Based on the onsite conditions the Contractor shall propose a water-based drilling mud for approval from the Division. Once a material is approved, the Division will require a minimum quantity be maintained at the site during the plugging project based on circumstances encountered.

C. Measurement: Measurement for payment for the above-described work shall be made by the actual quantity of sacks (50 lbs) of additives for the water-based drilling mud used to successfully plug the orphan well.

D. Payment: Payment for the above work shall be made at the unit price per sack for "Drilling Mud."

SALTWATER DRILLING MUD

A. Description: The work covered by this section shall consist of furnishing all labor, equipment, and material necessary to provide and use saltwater-based drilling mud for the drilling and plugging process of the well.

B. Materials: Based on the onsite conditions the Contractor shall propose saltwater-based drilling mud for approval from the Division. The Contractor shall be required to provide a product capable of achieving a 40 viscosity. Once a material is approved, the Division will require a minimum quantity to be maintained at the site during the plugging project based on circumstances encountered.

C. Measurement: Measurement for payment for the above-described work shall be made by the actual

quantity of sacks (50 lbs) of additives for the saltwater-based drilling mud used to successfully plug the orphan well.

D. Payment: Payment for the above work shall be made at the unit price per sack for "Saltwater Drilling Mud."

FORMED CONCRETE

A. Description: This work shall include furnishing all labor, materials, equipment, and supplies necessary to construct, pour and cure the driveway area as directed by the Division. This work shall include furnishing all labor, materials, equipment, and supplies necessary to remove the existing concrete and properly dispose of the material offsite.

B. Materials:

1. Concrete: Concrete materials shall conform to ODOT Class "C" concrete, which will be 6" thick**.**

2. Aggregate Base: The excavated area shall include an addition 6" for a compacted No. 304 Aggregate base.

3. Reinforcement: Concrete mix fill shall be reinforced with 6"x6" W2.9xW2.9 wire mesh and shall be 3" above the aggregate base or with approved fiber reinforced concrete.

4. False Work / Forms: False work and forms shall be in accordance with the details shown on the Construction Plan Set or with ODOT 508.

C. Installation: The Division shall be notified at least 24 hours in advance of placing concrete.

1. Excavation: The Contractor shall excavate the areas as determined by the Division to the 12" depth and prepare the subgrade to the satisfaction of the Division. Protect the sides of all excavations from caving by providing suitable sheeting, shoring and/or bracing. **All existing concrete shall be removed with a saw cut that shall be completed as determined in the field by the Division.**

2. Form Work: Construct substantial, unyielding, and mortar tight forms, designed to produce a finished concrete conforming to the proper dimensions and contours. The planned formwork design shall meet the dimensions determined in the field.

3. Reinforcement:

   a. Wire Mesh: If wire mesh is used it shall be placed in the lower third (3" above gravel base) of the concrete mix and wire tied to chairs. Chairs shall be set level on the gravel base with a maximum of 24 inches of spacing between chairs.

   b. Fiber Reinforcement: If fiber reinforced concrete is used the mix shall be approved by the Division. The fiber reinforcement shall be residential grade.

4. Concrete: The formwork and reinforcement shall be inspected and approved by the Division prior to commencing with the formed concrete.

   Before placing the concrete, all forms and surfaces which will be in contact with the concrete

shall be thoroughly cleaned and the space occupied by the concrete shall be free from all silt, dirt, shavings, rust, and other debris.

Concrete shall not be deposited in water. Concrete shall not be dropped a distance of more than five feet. Drop chutes shall be used to limit free fall to under five feet.

Concrete shall be placed within 1 1/2 hours of batching as indicated on the delivery ticket. Any concrete batched over 1 1/2 hours will be rejected.

Upon completion of the pour, the contractor shall "broom finish" the surface of the concrete apron.

The Division reserves the right to require relief cuts on the concrete apron. The concrete shall cure a minimum of 18 hours prior to relief cutting. All relief cuts shall match relief cuts in the existing concrete to remain.

Concrete shall be formed and placed in a manner to allow for positive drainage off the proposed concrete away from structures.

5. Curing:

As necessary, spade along surfaces and in corners to ensure smooth surfaces and dense concrete.

The concrete shall be cured by maintaining the surface temperature between 50°F AND 100°F for a period of 5 days.

All concrete shall be cured by Method (a) Water Curing or by Method (b) Membrane curing. Concrete shall be cured continuously till the concrete has attained the required 28-day strength as determined by compressive strength test, but in no case shall the elapsed time between placing the concrete and working or loading the concrete be less than 72 hours.

Method (a) Water Curing: All surfaces not covered by forms shall be protected with two thicknesses of wet burlap, as soon after placing the concrete as it can be done without marring the surface. The wet burlap shall be covered with white polyethylene sheeting or plastic-coated burlap blankets conforming to AASHTO M 171. They shall be placed wet with the burlap side against the concrete. Adjoining plastic-coated blankets or polyethylene sheets used to cover wet burlap shall be lapped sufficiently and held securely in place at laps and edges so that positive moisture seal is provided. White polyethylene sheeting or plastic-coated blankets containing holes or tears shall be covered with an additional covering of sheeting or blankets as directed by the Division's representative.

Method (b) Membrane Curing: Immediately after the free water has disappeared on surfaces not protected by forms and immediately after the removal of forms, if such are removed before the end of the curing period, the concrete shall be sealed by spraying as a fine mist to provide a uniform application of curing material that conforms to ASTM C 309, in such manner as to provide continuous, uniform, water impermeable film without marring the surface of the concrete.

The membrane curing shall be applied in one or more separate coats at the rate of at least 1 gallon per 200 square feet of surface. To assure that the proper amount of the curing material is applied, the number of gallons of curing material in the spray container shall be noted, and the correct area for that volume laid off so that the area of concrete surface to be covered will be such that the approved application rate will be secured. Curing material shall be thoroughly agitated

immediately prior to use. If the film is broken or damaged at any time during the specified curing period, the area or areas affected shall be given a complete duplicate treatment of the curing material applied at the same rate as the first treatment.

Unless adequate precautions are taken to protect the surface of the membrane, workers, materials, and equipment shall be kept off the membrane for the duration of the curing period.

Chemical admixtures may be used for curing with prior approval of the Division.

D Measurement: The quantity to be paid under this item shall be as calculated in the field by the Division. This quantity shall be verified by delivery tickets furnished to the Division.

E Payment: Payment for all the above-described work shall be made at the contract unit price bid per cubic yard for **"Formed Concrete"**.

VAULT

A. Description: This work shall include all material, labor, and equipment necessary for the excavation and installation of a modified precast ODOT Catch Basin 2-3 per ODOT Standard Construction Drawing Number: CB-1.2 with a modified specific frame, cover, and top assembly as shown on the Drawing Plan Set. The catch basin shall be modified to be open ended on the bottom of the basin. In addition, all fittings, joint seal, steps, connection of the vent pipes to the vault, and aggregate base in the bottom of vault shall be considered as incidental items to the completion of work detailed in this specification.

B. Materials:

1. Vault: The vault shall be a modified ODOT approved Catch Basin 2-3 per ODOT Standard Construction Drawing Number: CB-1.2 of precast concrete modular construction as shown on the Drawing Plan Set. Materials shall conform to those referenced in ODOT CMS Item 611.02 and 706.13. The following is a link to the current ODOT precast concrete producers certified in accordance with specifications.
https://www.dot.state.oh.us/Divisions/ConstructionMgt/Materials/Pages/CertifiedSuppliers.aspx

2. Frame, Cover, & Concrete Top: Frame and cover shall meet all standards of ODOT Standard Construction Drawing Number: MH-1.2 and ODOT CMS Item 711.14 (Neenah 1916-C1, EJIW 1040 APT 1045ZPT Assembly, or Approved Equal). Frame and cover shall state "GAS WELL" on the cover. The concrete top shall be sized to fit the Catch Basin 2-3 sidewalls.

3. Joint Seal: Joint seal for vent pipes shall be a resilient seal between the precast vault sections and flexible gasket joints per ODOT CMS Item 706.11.

4. Base: The aggregate bedding material shall conform to granular material ODOT CMS Item 304 aggregate base. This work shall be incidental to this line item.

5. Backfill: The concrete backfill shall be placed around the vault as dry Quikrete placed as shown on the vault detail on the Drawing Plan Set.

6. Vault Outlet: When line item "Vent Line - Plastic Pipe and Tubing (Alternative Option)" is chosen, the contractor shall provide a 2" dia. schedule 40 galvanized steel pipe stub 48" long

as shown on the vault detail on the Drawing Plan Set. This work shall be incidental to this line item.

C. Installation:

1. The vault shall be installed as shown on the Drawing Plan Set. The trench for the vault shall be excavated to the elevations shown on the Construction Plan Set. **The Contractor shall excavate and maintain the sides of the trenches as required by OSHA**. **No person shall be permitted to enter the trench unless OSHA required standards are constructed for the trenches.** No additional payment shall be made for excavation of material beyond the depth and width as shown on the Construction Plan Set. Any dewatering required to keep the trench dry during construction shall be performed by the Contractor.

2. Clean surface of vault pipe openings and exterior side of vent pipes of all foreign material. Place the vent pipes as detailed in the Drawing Plan Set. Install or have precast rubber gaskets on the vault. Complete a watertight seal per ASTM C923 for all vent pipes with the rubber gasket.

3. Fill the base grade with ODOT CMS Item 304 in a level manner to the dimensions define in the Drawing Plan Set. **This work and material shall be considered incidental to this line item.**

4. No backfilling shall be permitted without visual inspection and approval of the Division. The backfill for the vault shall be dry Quikrete or approved equal placed to fill around the vault. Any remaining area not filled by the quantity shown on the detail shall be backfilled by materials excavated from around the vault and shall be compacted with on-site equipment with the exception of the topsoil.

5. A minimum eight (8) inches of topsoil shall be removed and stockpiled during construction. Topsoil shall be utilized at trench backfill completion and shall not be compacted. Trench settlement shall be corrected by the Contractor to maintain existing grade outside the trench.

D. Measurement: Measurement for payment shall be made by field inspection of quantities satisfactorily installed.

E. Payment: Payment for this work shall be made at the unit price per each for **"Vault."**

VENT PIPE

A. Description. This work shall include all material, labor, and equipment necessary for the excavation and installation of a two (2) inch diameter galvanized steel vent pipe or an approved equal. In addition, all pipe fittings shall be considered as incidental items to the completion of work detailed in this specification. Work and materials associated with the Vent Support as Detailed on the Drawing Plan Set shall be considered incidental to this line item.

B. Materials.

1. Vent Pipe
   a. Steel Pipe: All steel pipe and associated fittings shall be schedule 40 galvanized steel.

   b. Plastic Pipe and Tubing: (Alternative Option) The contractor may choose to use a HDPE pipe for the lateral underground length from the vault to the vertical vent section.

(1) Pipe shall be a High-Density Polyethylene Gas Distribution pipe and shall conform to ASTM D2513 – Specifications for Thermoplastic Gas Pressure Pipe, Tubing and Fittings.

(2) The HDPE Pipe shall be 2" IPS, SDR 11 and approved for use underground. Black with Yellow Stripes, PE 4710 is preferred. Suggested manufacture would be JM Eagle or an approved equal.

(3) Fittings

a. Compression Fittings: Compression type fittings shall be used only with prior approval from the Division. All fittings used in joining pipe of underground steel shall be of the boltless compression type with conducting gaskets. Plastic fittings specifically designed to mechanically join plastic and steel pipe may be used as transition fittings. Boltless compression type fittings with conducting gaskets or plastic fittings shall be used for mechanically connecting plastic pipe in direct burial service line installations where the pipe is not joined by heat-fusion using approved plastic fittings. An internal metallic tubular stiffener that is made to close tolerance with the internal diameter (I.D.) of the plastic pipe is to be used at each compression fitting connection. Compression type fittings shall not be used above ground. All buried metallic fittings shall be coated and cathodically protected.

b. Plastic Pipe Fittings**:** Approved pipefittings and stab fittings may be used to connect lengths of plastic pipe. Plastic pipefittings shall conform to ASTM Specification D2513 and ASTM Specification D2683 and installed according to the manufacture's specifications.

2. Monitoring Plug: Monitoring plug shall be made of brass and shall be ¾-inch in diameter.

3. Insect and Rodent Vent Screen: The screen shall be made of either stainless steel or galvanized steel.

4. Backfill: Backfill vent pipe trench with compacted earth from excavation, up to within three (3) feet of the vault.

5. Building Attached Vent Pipe Support: This work shall include everything needed to complete the work on the Vent Supports as detailed.

C. Installation. The vent pipe shall be installed according to the details on the Drawing Plan Set. The pipe and fittings shall be connected and installed in accordance with manufacturer's instructions.

The trench for the vent pipe shall be excavated to the elevations shown on the Drawing Plan Set. **The Contractor shall excavate and maintain the sides of the trench as required by OSHA**. **No person shall be permitted to enter the trench as is designed on the Drawing Plan Set.** No additional payment shall be made for excavation of material beyond the depth and width as shown on the Drawing Plan Set.

Any dewatering required to keep the trench dry during construction shall be performed by the Contractor.

No backfilling shall be permitted without visual inspection and approval of the Division. **Backfill shall be placed in six (6) inch maximum lifts and compacted by a minimum of three (3) passes of a vibratory plate compactor capable exerting a minimum of 2,000 lbs. of centrifugal force.**

The loose lifts shall be compacted to the satisfaction of the Division. All materials excavated and replaced except for the topsoil shall be compacted.

All topsoil shall be removed and stockpiled during construction. Topsoil shall be utilized at trench backfill completion and shall not be compacted. Trench settlement shall be corrected by the Contractor to maintain existing grade outside the trench.

For the Plastic Pipe and Tubing: (Alternative Option):

1. Tracer Wire: Plastic pipe that is not encased must have a minimum #14 PVC coated solid copper wire installed with the pipe. The trace wire may not be wrapped around the pipe and contact with the pipe is to be minimized.

2. Warning Tape: Warning tape shall be installed over the service line on all open cut portions of the trench at 6 to 12 inches below grade.

As an equal the contractor may choose to bore the vent pipe in place rather than trench the vent pipe in place. All dimensions and grades shall be maintained as planned if boring is chosen by the contractor. The Division shall be given written notice with boring locations supplied prior to the start of work. The Division will approve the boring locations. This work shall be completed within the approved work limits. Any additional costs associated with boring shall be incorporated into this line item **"Vent Pipe."**

D. Measurement. Measurement for payment for the vent pipe shall be made by actual field measurements of quantities satisfactorily installed and completed per linear foot of vent pipe.

E. Payment. Payment for all the work specified above shall be made at the unit price per linear foot for **"Vent Pipe."**

VENT PIPE SUPPORT

A. Description. This work shall include all material, labor, and equipment necessary for the excavation and installation of a two (2) inch diameter galvanized steel vent pipe support as detailed Drawing Plan Set. In addition, all pipe fittings shall be considered as incidental items to the completion of work detailed in this specification. Work and materials associated with the Vent Support as detailed below and shall be considered incidental to this line item.

B. Materials (Vent Pipe):

1. Vent Pipe & Fittings: All pipe and associated fittings shall be schedule 40 galvanized steel.

2. Monitoring Plug: Monitoring plug shall be made of brass and shall be ¾-inch in diameter.

3. Insect and Rodent Vent Screen: The screen shall be made of either stainless steel or galvanized steel.

4. Backfill: Backfill vent pipe trench with compacted earth from excavation, up to within three (3) feet of the vault.

5. Vent Inlet: When line item "Vent Line - Plastic Pipe and Tubing (Alternative Option)" is chosen, the contractor shall provide a 2" dia. schedule 40 galvanized steel pipe stub 24" long as shown on the vent support details on the Drawing Plan Set. This work shall be incidental to this

line item.

6. Vent Pipe Support: This work shall include everything needed to complete the work on the Vent Supports as detailed.

C. Installation. The vent pipe support shall be installed according to the details. The pipe and fittings shall be connected and installed in accordance with manufacturer's instructions.

The trench for the vent pipe shall be excavated to the elevations shown on the Detail. **The Contractor shall excavate and maintain the sides of the trench as required by OSHA**. **No person shall be permitted to enter the trench as is designed on the Detail.** No additional payment shall be made for excavation of material beyond the depth and width as shown on the Detail.

Any dewatering required to keep the trench dry during construction shall be performed by the Contractor.

No backfilling shall be permitted without visual inspection and approval of the Division. **Backfill shall be placed in six (6) inch maximum lifts and compacted by a minimum of three (3) passes of a vibratory plate compactor capable exerting a minimum of 2,000 lbs. of centrifugal force.** The loose lifts shall be compacted to the satisfaction of the Division. All materials excavated and replaced with the exception of the topsoil shall be compacted.

All topsoil shall be removed and stockpiled during construction. Topsoil shall be utilized at trench backfill completion and shall not be compacted. Trench settlement shall be corrected by the Contractor to maintain existing grade outside the trench.

F. Measurement. Measurement for payment for the vent pipe support shall be made by actual field measurements of quantities satisfactorily installed and completed per linear foot of vent pipe.

G. Payment. Payment for all the work specified above shall be made at the unit price per each for **"Vent Pipe Support."**

SCOPE OF WORK
LORAIN 13F PROJECT
Multiple Orphan Well Sites
Lorain County, Various Townships

APPENDIX I – OHIO ONE-CALL

THE FOLLOWING ARE REPORTABLE INCIDENTS: *(OAC 1501:9-8-02)*		
TYPE OF INCIDENT (All Incident types associated with production operation or other activity regulated under Chapter 1509)	**QUANTITY** (GAL, BBL,PPM) NOTE: 1 Barrel = 42 US Gallons	**ADDITIONAL FACTORS**
Release of Gas	Any amount	Resulting from a Blow out; OR
		Uncontrolled Pop-off Valve (in Urban Area); OR
		Any gas release that is a threat to public safety
Release of Hydrogen Sulfide(H_2S) Gas (within the Working Area)	Exceeding 20 ppm (Sustained airborne concentration); For duration > 10 min	OR any H_2S release resulting in injury or death of person
Fire / Explosion	N/A	In which a reporting person has called an emergency responder (9-1-1 or Fire Dept)
Release of Oil, Condensate, or Materials Saturated with Oil or Condensate	> 210 US gallons in any 24-hr period (Estimated)	AND the release is OUTSIDE secondary containment & into the environment
Release of Oil, Condensate, or Materials Saturated with Oil or Condensate	> 25 US gallons in any 24-hr period (Estimated); AND the release is outside secondary containment and into the environment	In an urban area; OR
		In an Emergency Management Zone of a surface water public drinking supply; OR
		In a 5-year time of travel with a groundwater-based public drinking supply; OR
		In a 100-year flood hazard area as delineated on the federal emergency management agency's (FEMA) national flood insurance rate map
Release of Refined Oil Products *(EX: oil-based drilling fluid, petroleum distillate, spent or unused paraffin solvent, gasoline, fuel oil, diesel fuel, or lubricants)*	> 25 US gallons in any 24-hr period	AND the release is OUTSIDE secondary containment & into the environment
Release of Oil, Condensate, or Materials Saturated with Oil or Condensate; OR Refined Oil Products	Any amount	That enters waters of the state in an amount that causes a film or sheen on the surface of the water
Release of Brine or Semi-Solid Waste *(EX: drilling mud, sludge, or tank bottom sediments)*	> 42 US gallons in any 24-hr period	AND the release is OUTSIDE secondary containment & into the environment
	> 42 US gallons	AND is operated by a person to whom a registration certificate has been issued (ORC 1509.222), or to whom a resolution has been issued (ORC 1509.226)

Release of Brine from a Vehicle, Vessel, Railcar, or Container		AND enters the environment
Release of Hazardous Substance (HS) / Extremely Hazardous Substance (EHS); OR Mixture or Solution including a HS or EHS	An amount Equal to or > than applicable reportable quantities listed in 40CFR tables; in any 24-hr period If the amount of one or more HS or EHS released is in an unknown mixture or solution, notify when the total amount of the mixture or solution released is equal to or > than the reportable quantity for the HS or EHS with the lowest reportable quantity	List available at: http://oilandgas.ohiodnr.gov/portals/oilgas/pdf/emergency/list_of_lists.pdf *Code of Federal Regulations (C.F.R.) References:* HS- *Appendix A 40 CFR Part 302.4* EHS- *Appendix A 40 CFR Part 355*

THE FOLLOWING ARE NOT REPORTABLE INCIDENTS: *(OAC 1501:9-8-02 (A)(7))*

1. Controlled flaring or controlled burns authorized under Chapter 1509. of the Revised Code or under 1501:9 of the Administrative Code or authorized by the terms and conditions of a permit issued under Chapter 1509. of the Revised Code;
2. Properly functioning emission control devices authorized pursuant to Revised Code Section 3704.03;
3. Subsurface detonation of perforation-guns;
4. Seismic shots;
5. Controlled blasting for well site construction

Date Last Edited & Printed: 9/27/2018

SCOPE OF WORK
LORAIN 13F PROJECT
Multiple Orphan Well Sites
Lorain County, Various Townships

APPENDIX II: Well Photos & Well Records

Wise CW #6





2024 photos of the CW Wise #6 location looking east from Island Road. The well is located in the open field 180 feet east of the tree in the field and 400 feet east of Island Road (see blue arrow).



2024 photo of CW Wise #6 looking south showing what remains of the original pumping unit that is sitting over the well.



2024 photo showing the 6.5-inch outside diameter well casing in the CW Wise #6. It is open to a depth of 9 feet.

B-0061-3-12 GEOLOGICAL SURVEY OF OHIO 20188 188

OIL AND GAS WELL LOG

State Ohio

County Lorain Township Grafton Quadrangle Wellington

Lot 53 Quarter Tract Section NW NE SW

Measured Feet From Line And Feet From Line Of

Land Owner C. W. Wise Well No. 6 Date Started

Operator Forest Oil Well No. Date Completed 7-12-40

Elevation Bar. S. L. Total Depth 164 Plugged Back

Formation Drilled To Sand Producing Form. S Init. Prod. Nat.

Shot or Acid Record 30 qts 126-156 Prod. A. S. or Acid

Init. Rock Press. Abandoned

Formation	Top	Bottom	Remarks	Formation	Top	Bottom	Remarks
sand	122½	164	41½' sand				
		164	T.D.				
Casing Record 6" 62							

Well card for the CW Wise #6 (API# 34-093-2-0188-00-00).

WELL RECORD

Owner of Well Forest Oil Corporation Address 78 Main Street, Bradford, Penna.

County Lorraine Township Grafton Section Qr. Section

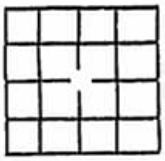
No. Well 6 Farm C. W. Wise Elev. Oil, Gas or Dry Hole

Drilling Commenced July 4, 1940 Drilling Completed July 12, 1940

Name of Drilling Contractor Marsh and West Address Chatham, Ohio

FORMATION RECORD

Name of Formation	From	To



Locate by Section or ¼ Section lines.

Description and Remarks:

Drive pipe - 15'
Top of sand 122½'
Bottom of sand 164'
Brook 41½"
Total depth of well 164'
Well washed a little oil 124'
to 133'. No results from
shot.
Top of shot 126'
Bottom of shot 156'
Amount 30 qts.
Date shot July 12, 1940
Shot by Independent Eastern
Company

CASING RECORD

Casing - 62'			

Submitted by

FOREST OIL CORPORATION
BY: L. J. Pengitgen M. A.

Well record for the CW Wise #6 (API# 34-093-2-0188-00-00).

WELL RECORD

Owner of Well Forest Oil Corporation Address 78 Main Street, Bradford, Penna.

County Lorraine Township Grafton Section Qr. Section

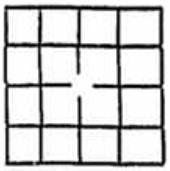
No. Well 4 Farm C. W. Wise Elev. Oil, Gas or Dry Hole

Drilling Commenced June 25, 1940 Drilling Completed July 2, 1940

Name of Drilling Contractor March & West Address Chatham, Ohio

FORMATION RECORD

Name of Formation	From	To



Locate by Section or ¼ Section lines.

Description and Remarks:

Tubing -160' of 2" line pipe

150' - rods

Hough Working barrel

Total depth of well - 168'

To p of floor to ground - 1'

Oil from 131' to 146' from 146' to 150'

Sand from 150' to 159'. Broken sand 159' to 168'

1 barrel per hour from sand.

CASING RECORD

6¼" casing 60'			

Submitted by

FOREST OIL CORPORATION

BY: L. J. Quigley
Supt.

Offset well record for API# 34-093-2-0186-00-00 located 980 feet southeast of the CW Wise #6.

Schaeffer Charles A #1



June 2024 photo of the Charles Schaeffer #1 (API# 34-093-2-0850-00-00) showing the exposed well, disconnected flowline, water well and sales line marker (just to the right of the tree).



July 2024 photos of the Charles Schaeffer #1 (API# 34-093-2-0850-00-00), looking west, showing the exposed well head, 3.5-inch diameter production tubing, associated fittings, and disconnected flowline. Note the top of a Gas Packer Anchor attached to the 3.5-inch diameter tubing. It is assumed that the bottom clamp of this anchor is attached to the top of the buried 10-inch diameter onductor casing.



July 2024 photos of the Charles Schaeffer #1 (API# 34-093-2-0850-00-00), showing the top portion of a dresser sleeve welded to the top of the reduction swage.



July 2024 photos of the water well associated with the Charles Schaffer #1 (API# 34-093-2-0850-00-00). Dirt and debris can be seen at a depth of 2 feet in this casing, which is located approximately 5 feet west of the well.



June 2024 photos of the Charles Schaeffer #1 (API# 34-093-2-0850-00-00) site, looking south, showing the domestic service line with associated weighted regulators coming off the main sales line which continues straight (south) toward the white line marker. The terminus of these lines are not known.



June 2024 photos of the Charles Schaeffer #1 (API# 34-093-2-0850-00-00) site showing the domestic service line with associated weighted regulators coming off the main sales line. Note the hole in the sales line where the domestic service is attached.



July 2024 photos of the Charles Schaeffer #1 (API# 34-093-2-0850-00-00) site showing sales line marker.

WELL RECORD

B-0061-3-104

GEOLOGICAL SURVEY OF OHIO

20850 | 850PP

OIL AND GAS WELL LOG

State Ohio
County Lorain Township Grafton Quadrangle Wellington
Lot 47 Quarter Tract Section NW NE SW
Measured 660 Feet From S Line And 1200 Feet From E Line Of Lot 47

Land Owner Charles A. Schaeffer Well No. 1 Date Started
Operator G. F. G. Well No. 4758 Date Completed 8-21-29
Elevation Bar. S. L. P-880.5-g Total Depth 2646 Plugged Back
Formation Drilled To Clinton Producing Form. Clinton; Stray Init. Prod. Nat. 350 M.
Shot or Acid Record 30 Qts. 2614-24'4" Prod. A. S. or Acid See below
Init. Rock Press. 1125 #'s Abandoned XX

Formation	Top	Bottom	Remarks	Formation	Top	Bottom	Remarks
Berea	100	210	dry				
ls.	1260	2497	w. 1531 & 2365				
Shell	2554	2576					
Stray	2605	2610	238 M.				
Clinton	2614	2629	112 M.				
		2646	T.D.				
			A.S. 3,108 M.	imm. 2,067-½ hr.	S.I. 1,247 M.		

Well Completion record for the Charles Schaeffer #1, API# 34-033-2-0850-00-00.

APPLICATION TO PLUG AND ABANDON

June 23, 1964
Permit Issued

850
File No.

H.C. Laughlin
Inspector

APPLICATION
PERMISSION TO PLUG AND ABANDON
OIL OR GAS WELL

No records

Columbus 15, Ohio June 17, 1964

Department of Industrial Relations
Division of Mines
220 Persons Avenue
Columbus 15, Ohio

Gentlemen:

We hereby notify you that on or about June 29, 1964, we expect to plug well ~~xxxxxx~~ No. 1-4758 on property of Charles A. Schaeffer, located in Lorain (County), Grafton (Township), _____ (Section), _____ (Range), 47 (Lot), _____ (City Lot), _____ (City or Village).

Permission to drill was granted to The Ohio Fuel Gas Company ~~Company~~ in June 19, 19 29, and was mapped or sketched June 17, 1964, by The Ohio Fuel Gas Company (Company)

99 North Front Street, Columbus, Ohio. (Address)

Former owners, if any _____

Bonding Requirements

_____
Name of Surety Bond Company

_____
P.O. Address

_____
Amount of Surety Bond

_____
Bond No.

_____
Date of Bond Cancellation

(Signed) The Ohio Fuel Gas Co.
Per J.E. Adams Jr. Title
P.O. Address 99 North Front Street
Columbus, Ohio 43215

JUN 23 1964
DIV. MINES

NOTE: Please give all former owners, as permit to abandon will not be granted unless map or sketch of same is on file at this office.

Copy of Application to Plug and Abandon for the Charles Schaeffer #1 API# 34-093-2-0850-00-00.

OFFSET WELL RECORDS

B-0061-3-23

GEOLOGICAL SURVEY OF OHIO

20102 (80&)102

OIL AND GAS WELL LOG

P# 102 replaces P# 80

State Ohio
County Lovain Township Grafton Quadrangle Wellington
Lot 55 Quarter Tract Section NW NE SW
Measured 800 Feet From N Line And 400 Feet From W Line Of Lot 55
800' NL & 400' WL of Lot 55- from Pepper Map
Land Owner A. J. Schaefer Well No. 1 Date Started July 14, 1937 D. D.
Operator O. F. G. Co. Well No. 6334-g Date Completed 11-25-36 7/21/37
Elevation Bar. S. L. 871.8 Total Depth 2329 (2678) Plugged Back
Formation Drilled To Lime Producing Form. Sh.; Lime Init. Prod. Nat. 768M/24 hrs
Shot or Acid Record Prod. A. S. or Acid
Init. Rock Press. 945# Abandoned

Formation	Top	Bottom	Remarks
			gas 0.77 Newburg 0.37 Clinton
Soil & Sh.	0	118	Salt 1740-1800
grit	118	165	water
Sh.	165	1246	gas at 625-1070
Lime	1246	2329	N'bg at 2300-2329-gas pay
		2329	T.D.
Drilled Deeper:			
lime	2329	2410	Shales occupy breaks in record below lime
lime wtr sand	2410	2450	filler up to 160' from top
bottom of lime	2450	2468	
slate	2468	2471	
shell	2471	2496	
slate	2496	2510	
packer sh			
packer shell	2510	2520	
slate	2520	2560	
slate	2560	2578	
clinton sand	2578	2590	gas
slate	2590	2594	
clinton sand	2594	2607	
slate	2607	2620	
sand	2620	2624	
slate	2624	2628	
red rock	2628	2633	
slate	2633	2647	
red rock	2647	2651	
slate	2651	2678	
T D		2678	

Casing Record 10" 24 8" 253 6" 1580

Drilling/casing record for the API# 34-093-2-0102-00-00, located approximately 4,200 feet southwest of the Charles Schaffer #1.

Drilled Deeper

WELL RECORD

Owner of Well Ohio Fuel Gas Co. Address Columbus, Ohio

County Lorain Township Grafton Section Lot #55 Qr. Section

No. Well 1 Farm A. J. Schaefer Elev. 871.8Q Oil, Gas or Dry Hole Gas

Drilling Commenced July 14, 1937 Drilling Completed July 21, 1937

Name of Drilling Contractor The O.F.G.Co. Address Columbus, Ohio

FORMATION RECORD

Name of Formation	From	To	
			Locate by Section or ¼ Section lines.
			Description and Remarks:
Started to drill 2329'			
Lime	2329	2410	
Lime Water Sand	2410	2450	Filler up to 160' from top
Lime Bottom of Lime	2450	2468	
Slate	2468	2471	
Shell	2471	2496	
Slate	2496	2510	
Shell Packer Shell	2510	2520	
Slate	2520	2560	
Slate	2560	2578	
Sand Clinton	2578	2590	Gas
Slate	2590	2594	
Sand Clinton	2594	2605	
Sand Clinton	2605	2607	
Slate	2607	2620	
Sand	2620	2624	
Slate	2624	2628	
Red Rock	2628	2633	
Slate	2633	2647	
Red Rock	2647	2651	
Slate	2651	2678	
Total Depth		2678	

CASING RECORD

Mat. Used	Size	Weight	Make	Left in Well
Casing	5-3/16"	17#		2495
" Packer	5-3/16"		O.W.S. B.H.	1
Tubing	3"	8 1/2#		371
Packer	3x5-3/16x16"		O.W.S. Comb.	1

Submitted by W. A. Titsch

Well Completion record for the deepening of API# 34-035-2-0102-00-00, located approximately 4,200 feet southwest of the Charles Schaffer #1.

Sears Russel F #1



View of existing vent pipe and general site location area of the Sears Russell F #1.



View of access from road back to well location.



View of wellhead.

WELL RECORD

B-0049-7-129

GEOLOGICAL SURVEY OF OHIO

7529 -7-129

60277 OIL AND GAS WELL LOG

State Ohio

County Lorain Township Grafton Quadrangle Berea

Lot 29 Quarter Tract Section NW NE SW

Measured 1320 Feet From W Line And 600 Feet From N Line Of Lot 29

1320' NL & 600' WL of Lot 29-from Pepper Map

Land Owner Russell F. Sears Well No. 1 Date Started

Operator O. F. G. Well No. 935 Date Completed 2-9-18

Elevation Bar. S. L. Total Depth 2759 Plugged Back

Formation Drilled To Clinton Producing Form. Init. Prod. Nat. 50M.

Shot or Acid Record 30 Qts. Clinton Prod. A. S. or Acid 339 M. 1 hr. S.I. 284M.

Init. Rock Press. 100 #'s Abandoned

Formation	Top	Bottom	Remarks	Formation	Top	Bottom	Remarks
ls.	1339	2558	w. 2439				
shell	2628	2648					
Clinton	2674	2694					
		2759	T.D.				
				Csg: 10"-40', 6"-1635', 5"-2596', 3"-2759'.			

Well Completion record for the Sears Russell F #1, API# 34-033-6-0277-00-00.

Wise Geo #1



2022 photo of the Geo Wise #1 (API# 34-093-2-0142-00-00) looking west and showing the well (foreground) and the Hunt residence (background).



2022 photo of the Geo Wise #1 (API# 34-093-2-0142-00-00) looking east showing the well vent line (blue arrow) in relation to the lone tree in the field.



2022 photo of the Geo Wise #1 (API# 34-093-2-0142-00-00) looking east from Avon Belden Road/SR 57.



2021 photo of the Geo Wise (API# 34-093-2-0142-00-00) showing the excavation containing the open 10-inch diameter well casing.



2021 photo of the Geo Wise #1 (API# 34-093-2-0142-00-00) showing the excavation with the temporary drum vault installed over the open 10-inch diameter well casing. The 2-inch diameter steel vent line was screwed into the open bung in the top of the drum.

WELL CARD

B-0061-3-50

GEOLOGICAL SURVEY OF OHIO

20142 142/42

OIL AND GAS WELL LOG

State Ohio
County Lorain Township Grafton Quadrangle Wellington
Lot 46 Quarter Tract Section NW NE SW
Measured 905 Feet From N Line And 660 Feet From W Line Of Lot 46
905 ' NL & 660' WL of Lot 46- from Pepper Map
Land Owner Geo Wise Well No. 1 Date Started
Operator O. F. G. Co. Well No. 6767 Date Completed 11-2-40
Elevation Bar. S. L. P-861.1 Total Depth 2647 Plugged Back
Formation Drilled To Sh. Producing Form. ss-Cl. Init. Prod. Nat. gas - 0.06
Shot or Acid Record Prod. A. S. or Acid
Init. Rock Press. Abandoned 4-28-53

Formation	Top	Bottom	Remarks
mud & sh	0	95	
berea	95	105	
sh.	105	110	
red	110	160	
sh.	160	170	
red	170	225	
sh.	225	1226	Wtr. @ 1425' & 1470' &2310'.
Lime	1226	2445	Salt @ 1700- 1765
Shell	2455	2460	c
Shell	2493	2510	p
Shell	2519	2530	
ss-Cl.	2577	2585	gas
red	2585	2588	
sh.	2588	2647	T.D. Shales occupy breaks in record below Lime.

Casing Record 10" 61 8" 244 6" 43 5" 2475 3"-2627'.

Well card for the Geo Wise #1 (API# 34-093-2-0142-00-00).

ORIGINAL WELL RECORD

WELL RECORD

Owner of Well The Ohio Fuel Gas Co. Address 99 N. Front St., Columbus, Ohio

County Lorain Township Grafton Section Qr. Section Lot 46

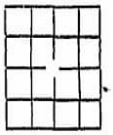
No. Well 1 Farm Geo. Wise Elev. P 861.1 Oil, Gas or Dry Hole Gas

Drilling Commenced September 25, 1940 Drilling Completed November 2, 1940

Name of Drilling Contractor The Ohio Fuel Gas Co. Address Columbus, Ohio

FORMATION RECORD

Name of Formation	From	To	Description and Remarks
Top Soil	0	2	
Mud	2	95	
Sand Berea	95	105	
Slate	105	110	
Red Rock	110	160	
Slate	160	170	
Red Rock	170	225	
Shale	225	360	
Shale	360	489	
Slate	489	645	
Shale Cinnamon	645	838	No gas, oil or water found
Slate	838	845	
Shale Cinnamon	845	915	No gas, oil or water found
Slate	915	945	
Shale Cinnamon	945	1040	No gas, Oil or water found
Lime Niagara	1226	1265	Gritty
Lime	1265	1373	
Lime	1373	1425	Gritty
Sand Water Sand	1425	1470	
Lime	1470	1700	
Salt	1700	1765	
Lime	1765	1790	
Lime	1790	1965	
Slate	1965	2000	
Lime	2000	2245	
Sand	2245	2290	Gas
Lime	2290	2300	
Sand Water Sand	2300	2310	



Locate by Section or ¼ Section lines.

Description and Remarks:

WELL RECORD—(Concluded)

Name of Formation	From	To	Description and Remarks
Lime	2310	2362	Grit
Lime	2362	2387	
Lime Bottom of Lime	2387	2445	
Slate	2445	2455	
Shell Casing Shell	2455	2460	
Slate	2460	2493	
Shell Packer Shell	2493	2510	
Slate	2510	2519	
Shell	2519	2530	
Slate	2530	2577	
Sand Clinton	2577	2585	Gas
Red Rock	2585	2588	
Slate	2588	2647	
Total Depth	2647		
Filled up to	2595		
Total Depth after shot		2600	

MAT/ USED	SIZE	WEIGHT	NAME	LEFT IN WELL
Drive Pipe	10"	40#		61
Drive Shoe	10x10	40#	Steel Drive Shoe	1
Casing	8¼"	24#		244

CASING RECORD

Casing	6-5/8"	24#		43
Casing	5-3/16"	17#		2475
Casing Packer	6-5/8x8¼"	20#	Lead B. H. Packer	1
" "	5-3/16x6-5/8"	17#	" " "	1
Casing Coupling	6-5/8"	20#	H & C Release	1
Tubing	3"	8#?		2627
Packer	3"x5-3/16x16"	Rubber Spang Comp.		1
Casinghead	5-3/16x3x2"	Swage Nipple Casinghead		1

Submitted by J. C. Bragg

Original Well Record for the Geo Wise #1 (API# 34-093-2-0142-00-00).

PLUGGING RECORD

Date 4/22-25-27-28/53

Owner or operator of well The Ohio Fuel Gas Co.

99 N. Front St.

P. O. Address Columbus, Ohio

No. of well 1-6767 Section L-16 Gas X Oil Dry Other

Township Grafton County Lorain

On farm known as Geo. Wise

Date of permit to drill plug 11-26-52

When drilled 9-26-40 to 11-2-40

Total depth 2647 Top of sand 2577

	Top	Bottom
Fresh water strata		
Depth of coal		
" " "		
" " "		
First coarun sand		
Cambridge lime		
Wackaburg 500 sand		
Second coarun sand		
Salt sand		
Maxton sand		
Big lime of W. Va.		
Keener sand		
Big Injun sand		
Squar sand		
Berea sand	95	105
Gordon sand		
Big Lime	1226	2445
Oriskany		
1st water	1425	1470
Salt	1700	1766
2nd water	2300	2310
Newberg		
Clinton sand	2577	2586
Medina formation		
Trenton		
St. Peter		

Form 567-5M

Manner in which well was plugged, give description in detail: Seasoned wood plug drove in tubing rip at 2496'. and filled with clay 2496' to 2100'. Tapered cement plug on 5" rip at 1739', and filled with clay to 1639'. Tapered cement plug at 1608', and filled with clay to 1385'. Rock bridge 400' to 385'. Seasoned wood plug at 385' to 382'. Clay 382' to 244'. Tapered cement plug at 244'. and filled with clay to the surface.

MAY 1 1953

DIV. MINES

CASING RECORD

81' - 10"OD	in
244' - 8"	out
1661' - 6 5/8"	out 1608' when drilled
2476' - 6¼"	out 1739'
2627' - 3½"	out 2496'

Date of abandonment 4-28-53

Signature of Inspector

Plugging record for the Geo Wise #1 (API# 34-093-2-0142-00-00).

SCOPE OF WORK
LORAIN 13F PROJECT
Multiple Orphan Well Sites
Lorain County, Various Townships

APPENDIX III: PERMITS & PERMIT CONDITIONS

ODOT PERMITS

SCOPE OF WORK
LORAIN 13F PROJECT
Multiple Orphan Well Sites
Lorain County, Various Townships

APPENDIX IV: DAVIS-BACON WAGE DETERMINATION

"General Decision Number: OH20260001 07/30/2026

State: Ohio

Construction Types: Heavy and Highway

Counties: Ohio Counties of
Adams, Allen, Ashland, Ashtabula,
Athens, Auglaize, Belmont, Brown,
Butler, Carroll, Champaign, Clark,
Clermont, Clinton, Columbiana,
Coshocton, Crawford, Cuyahoga, Darke,
Defiance, Delaware, Erie, Fairfield,
Fayette, Franklin, Fulton, Gallia,
Geauga, Greene, Guernsey, Hamilton,
Hancock, Hardin, Harrison, Henry,
Highland, Hocking, Holmes, Huron,
Jackson, Jefferson, Knox, Lake,
Lawrence, Licking, Logan, Lorain, Lucas,
Madison, Mahoning, Marion, Medina,
Meigs, Mercer, Miami, Monroe,
Montgomery, Morgan, Morrow, Muskingum,
Noble, Ottawa, Paulding, Perry,
Pickaway, Pike, Portage, Preble, Putnam,
Richland, Ross, Sandusky, Scioto,
Seneca, Shelby, Stark, Summit, Trumbull,
Tuscarawas, Union, Van Wert, Vinton,
Warren, Washington, Wayne, Williams,
Wood and Wyandot

Heavy Construction

Highway Construction

Modification Number	Publication Date
0	01/02/2026
1	05/18/2026
2	05/20/2026
3	06/25/2026
4	07/30/2026

BROH0001-001 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (DEFIANCE, FULTON (EXCLUDING		

FULTON, AMBOY & SWAN CREEK TOWNSHIPS), HENRY (EXCLUDING MONROE, BARTLOW, LIBERTY, WASHINGTON, RICHFIELD, MARION, DAMASCUS & TOWNSHIPS & THAT PART OF HARRISON TOWNSHIP OUTSIDE CORPORATE LIMITS OF CITY OF NAPOLEON), PAULDING, PUTNAM AND WILLIAMS COUNTIES)	$ 33.39	20.06

BROH0001-004 06/01/2023

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 32.40	19.30

BROH0003-002 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (FULTON (TOWNSHIPS OF AMBOY, SWAN CREEK & FULTON), HENRY (TOWNSHIPS OF WASHINGTON, DAMASCUS, RICHFIELD, BARTLOW, LIBERTY, HARRISON, MONROE, & MARION), LUCAS AND WOOD (TOWNSHIPS OF PERRYSBURG, ROSS, LAKE, TROY, FREEDOM, MONTGOMERY, WEBSTER, CENTER, PORTAGE, MIDDLETON, PLAIN, LIBERTY, HENRY, WASHINGTON, WESTON, MILTON, JACKSON & GRAND RAPIDS) COUNTIES)	$ 33.39	20.06

BROH0005-003 06/01/2020

	Rates	Fringes
BRICKLAYER: SWING SCAFFOLDS (CUYAHOGA, LORAIN & MEDINA (HINCKLEY, GRANGER, BRUNSWICK, LIVERPOOL, MONTVILLE, YORK, HOMER, HARRISVILLE, CHATHAM, LITCHFIELD & SPENCER TOWNSHIPS AND THE CITY OF MEDINA))	$ 37.14	17.13
BRICKLAYER: SEWER BRICKLAYERS & STACK BUILDERS (CUYAHOGA, LORAIN & MEDINA (HINCKLEY, GRANGER, BRUNSWICK, LIVERPOOL, MONTVILLE, YORK, HOMER, HARRISVILLE, CHATHAM, LITCHFIELD & SPENCER TOWNSHIPS AND THE CITY OF MEDINA))	$ 36.64	17.13
BRICKLAYER: SANDBLASTERS (CUYAHOGA, LORAIN & MEDINA (HINCKLEY, GRANGER, BRUNSWICK, LIVERPOOL, MONTVILLE, YORK, HOMER, HARRISVILLE, CHATHAM, LITCHFIELD & SPENCER TOWNSHIPS AND THE CITY OF MEDINA))	$ 36.39	17.13
BRICKLAYER: BRICKLAYERS; CAULKERS; CLEANERS; POINTERS; & STONEMASONS (CUYAHOGA, LORAIN & MEDINA (HINCKLEY, GRANGER, BRUNSWICK, LIVERPOOL, MONTVILLE, YORK, HOMER, HARRISVILLE, CHATHAM, LITCHFIELD & SPENCER TOWNSHIPS AND THE CITY OF MEDINA))	$ 36.64	17.13

BROH0006-005 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (CARROLL, COLUMBIANA (KNOX, BUTLER, WEST & HANOVER TOWNSHIPS), STARK & TUSCARAWAS)	$ 33.39	20.06

BROH0007-002 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (LAWRENCE)	$ 33.39	20.06

BROH0007-005 06/01/2023

	Rates	Fringes

BRICKLAYER (PORTAGE & SUMMIT)	$ 32.40	19.30

BROH0007-010 06/01/2024

	Rates	Fringes
MASON - STONE (PORTAGE & SUMMIT)	$ 33.39	20.06

BROH0008-001 06/01/2024

	Rates	Fringes
BRICKLAYER (COLUMBIANA (SALEM, PERRY, FAIRFIELD, CENTER, ELK RUN, MIDDLETON, & UNITY TOWNSHIPS AND THE CITY OF NEW WATERFORD), MAHONING & TRUMBULL)	$ 33.39	20.06

BROH0009-002 06/01/2016

	Rates	Fringes
REFRACTORY (BELMONT & MONROE COUNTIES AND THE TOWNSHIPS OF WARREN & MT. PLEASANT AND THE VILLAGE OF DILLONVALE IN JEFFERSON COUNTY)	$ 31.45	19.01

BROH0009-002 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (BELMONT & MONROE COUNTIES AND THE TOWNSHIPS OF WARREN & MT. PLEASANT AND THE VILLAGE OF DILLONVALE IN JEFFERSON COUNTY)	$ 33.39	20.06

BROH0010-002 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (COLUMBIANA (ST. CLAIR, MADISON, WAYNE, FRANKLIN, WASHINGTON, YELLOW CREEK & LIVERPOOL TOWNSHIPS) & JEFFERSON (BRUSH CREEK & SALINE TOWNSHIPS))	$ 33.39	20.06

BROH0014-002 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (HARRISON & JEFFERSON (EXCEPT MT. PLEASANT, WARREN, BRUSH CREEK, SALINE & SALINEVILLE TOWNSHIPS & THE VILLAGE OF DILLONVALE))	$ 33.39	20.06

BROH0016-002 06/01/2023

	Rates	Fringes
BRICKLAYER, STONEMASON (ASHTABULA, GEAUGA, AND LAKE COUNTIES)	$ 32.40	19.30

BROH0018-002 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (BROWN, BUTLER, CLERMONT, HAMILTON, PREBLE (GASPER, DIXON, ISRAEL, LANIER, SOMERS & GRATIS TOWNSHIPS) & WARREN COUNTIES:)	$ 33.39	20.06

BROH0022-004 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (CHAMPAIGN, CLARK, CLINTON, DARKE, GREENE, HIGHLAND, LOGAN, MIAMI, MONTGOMERY, PREBLE (JACKSON, MONROE, HARRISON, TWIN, JEFFERSON & WASHINGTON TOWNSHIPS) AND SHELBY COUNTIES)	$ 33.39	20.06

BROH0032-001 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (GALLIA & MEIGS)	$ 33.39	20.06

BROH0035-002 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (ALLEN, AUGLAIZE, MERCER AND VAN WERT COUNTIES)	$ 33.39	20.06

BROH0039-002 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (ADAMS & SCIOTO)	$ 33.39	20.06

BROH0040-003 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (ASHLAND, CRAWFORD, HARDIN, HOLMES, MARION, MORROW, RICHLAND, WAYNE AND WYANDOT (EXCEPT CRAWFORD, RIDGE, RICHLAND & TYMOCHTEE TOWNSHIPS) COUNTIES) FOOTNOTE: LAYOUT MAN AND SAWMAN RATE: $1.00 PER HOUR ABOVE JOURNEYMAN RATE. FREE STANDING STACK WORK GROUND LEVEL TO TOP OF STACK; SANDBLASTING AND LAYING OF CARBON MASONRY MATERIAL IN SWING STAGE AND/OR SCAFFOLD; RAMMING AND SPADING OF PLASTICS AND GUNNITING: $1.50 PER HOUR ABOVE JOURNEYMAN RATE. ""HOT"" WORK: $2.50 ABOVE JOURNEYMAN RATE	$ 33.39	20.06

BROH0044-002 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (COSHOCTON, FAIRFIELD, GUERNSEY, HOCKING, KNOX, KICKING, MORGAN, MUSKINGUM, NOBLE (BEAVER, BUFFALO, SENECA & WAYNE TOWNSHIPS) & PERRY COUNTIES:)	$ 33.39	20.06

BROH0045-002 06/01/2023

	Rates	Fringes
BRICKLAYER, STONEMASON (FAYETTE, JACKSON, PIKE, ROSS AND VINTON COUNTIES)	$ 35.39	17.47

BROH0046-002 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (ERIE, HANCOCK, HURON, OTTAWA, SANDUSKY, SENECA, WOOD (PERRY & BLOOM TOWNSHIPS) AND WYANDOT (TYMOCHTEE, CRAWFORD, RIDGE & RICHLAND TOWNSHIPS) COUNTIES & THE ISLANDS OF LAKE ERIE NORTH OF SANDUSKY) FOOTNOTE: LAYOUT MAN AND SAWMAN RATE: $1.00 PER HOUR ABOVE JOURNEYMAN RATE. FREE STANDING STACK WORK GROUND LEVEL TO TOP OF STACK; SANDBLASTING AND LAYING OF CARBON MASONRY MATERIAL IN SWING STAGE AND/OR SCAFFOLD; RAMMING AND SPADING OF PLASTICS AND GUNNITING: $1.50 PER HOUR ABOVE JOURNEYMAN RATE. ""HOT"" WORK: $2.50 ABOVE JOURNEYMAN RATE	$ 33.39	20.06

BROH0052-001 06/01/2024

	Rates	Fringes

BRICKLAYER, STONEMASON (ATHENS COUNTY).....$ 33.39 20.06

BROH0052-003 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (NOBLE (BROOKFIELD, NOBLE, CENTER, SHARON, OLIVE, ENOCH, STOCK, JACKSON, JEFFERSON & ELK TOWNSHIPS) AND WASHINGTON COUNTIES)	$ 33.39	20.06

BROH0055-003 06/01/2024

	Rates	Fringes
BRICKLAYER, STONEMASON (DELAWARE, FRANKLIN, MADISON, PICKAWAY AND UNION COUNTIES)	$ 33.39	20.06

CARP0002-024 05/01/2009

	Rates	Fringes
DIVER (BROWN, BUTLER, CHAMPAIGN, CLARK, CLERMONT, CLINTON, DARKE, GREENE, HAMILTON, LOGAN, MIAMI, MONTGOMERY, PREBLE, SHELBY & WARREN)	$ 40.58	9.69

CARP0002-024 05/01/2025

	Rates	Fringes
CARPENTER & PILEDRIVERMEN (BROWN, BUTLER, CHAMPAIGN, CLARK, CLERMONT, CLINTON, DARKE, GREENE, HAMILTON, LOGAN, MIAMI, MONTGOMERY, PREBLE, SHELBY & WARREN)	$ 35.94	23.59

CARP0171-001 05/01/2025

	Rates	Fringes
CARPENTER (MAHONING & TRUMBULL)	$ 33.19	25.02

CARP0171-002 05/01/2025

	Rates	Fringes
CARPENTER (BELMONT, COLUMBIANA, HARRISON, JEFFERSON & MONROE)	$ 32.50	26.19

CARP0200-002 05/01/2009

	Rates	Fringes
DIVER (ADAMS, ATHENS, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GALLIA, GUERNSEY, HIGHLAND, HOCKING, JACKSON, LAWRENCE, LICKING, MADISON, MARION, MEIGS, MORGAN, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, ROSS, SCIOTO, UNION, VINTON AND WASHINGTON COUNTIES)	$ 39.41	10.40

CARP0200-002 05/01/2025

	Rates	Fringes
PILEDRIVERMAN (ADAMS, ATHENS, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GALLIA, GUERNSEY, HIGHLAND, HOCKING, JACKSON, LAWRENCE, LICKING, MADISON, MARION, MEIGS, MORGAN, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, ROSS, SCIOTO, UNION, VINTON AND WASHINGTON COUNTIES)	$ 35.94	23.59
CARPENTER (ADAMS, ATHENS, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GALLIA, GUERNSEY, HIGHLAND, HOCKING, JACKSON, LAWRENCE, LICKING, MADISON,		

MARION, MEIGS, MORGAN, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, ROSS, SCIOTO, UNION, VINTON AND WASHINGTON COUNTIES)	$ 35.94	23.59

CARP0285-001 05/01/2025

	Rates	Fringes
CARPENTER (CARROLL, STARK, TUSCARAWAS AND WAYNE)	$ 34.07	24.28

CARP0285-002 05/01/2025

	Rates	Fringes
CARPENTER (COSHOCTON, HOLMES, KNOX & MORROW)	$ 33.38	24.69

CARP0285-008 05/01/2025

	Rates	Fringes
CARPENTER (MEDINA, PORTAGE & SUMMIT)	$ 37.18	25.07

CARP0351-005 05/01/2025

	Rates	Fringes
CARPENTER (LUCAS & WOOD)	$ 35.44	27.56

CARP0351-006 05/01/2025

	Rates	Fringes
CARPENTER (DEFIANCE, FULTON, HANCOCK, HENRY, PAULDING & WILLIAMS COUNTIES)	$ 32.05	26.13

CARP0372-002 05/01/2025

	Rates	Fringes
CARPENTER (ALLEN, AUGLAIZE, HARDIN, MERCER, PUTNAM & VAN WERT)	$ 31.80	26.33

CARP0435-005 05/01/2025

	Rates	Fringes
CARPENTER (ASHTABULA, CUYAHOGA, GEAUGA & LAKE)	$ 38.57	24.64

CARP0735-001 05/01/2025

	Rates	Fringes
CARPENTER (ASHLAND, HURON & RICHLAND)	$ 34.67	23.57

CARP0735-002 05/01/2025

	Rates	Fringes
CARPENTER (LORAIN)	$ 38.42	24.01

CARP0735-004 05/01/2025

	Rates	Fringes
CARPENTER (ERIE)	$ 36.71	24.14

CARP0744-001 05/01/2025

	Rates	Fringes
CARPENTER (CRAWFORD, OTTAWA, SANDUSKY, SENECA & WYANDOT)	$ 33.74	27.05

CARP1090-002 05/01/2025

	Rates	Fringes
PILEDRIVERMEN & DIVER'S TENDER (ALLEN, AUGLAIZE, HARDIN, MERCER, PUTNAM, VAN WERT & WYANDOT) DIVERS - $250.00 PER DAY	$ 35.94	28.39

CARP1090-003 05/01/2025

	Rates	Fringes
PILEDRIVERMEN; DIVER, DRY (BELMONT, HARRISON, & MONROE)	$ 39.01	24.91
DIVER, WET (BELMONT, HARRISON, & MONROE)	$ 58.52	24.91

CARP1090-004 05/01/2025

	Rates	Fringes
PILEDRIVERMEN; DIVER, DRY (CARROLL, STARK, TUSCARAWAS & WAYNE)	$ 33.21	25.40
DIVER, WET (CARROLL, STARK, TUSCARAWAS & WAYNE)	$ 49.82	25.40

CARP1090-005 05/01/2025

	Rates	Fringes
PILEDRIVERMEN; DIVER, DRY (ASHLAND, ASHTABULA, CUYAHOGA, ERIE, GEAUGA, HURON, LAKE, LORAIN, MEDINA, PORTAGE, RICHLAND & SUMMIT)	$ 36.34	27.50
DIVER, WET (ASHLAND, ASHTABULA, CUYAHOGA, ERIE, GEAUGA, HURON, LAKE, LORAIN, MEDINA, PORTAGE, RICHLAND & SUMMIT)	$ 54.51	27.50

CARP1090-006 05/01/2025

	Rates	Fringes
PILEDRIVERMEN; DIVER, DRY (COSHOCTON, HOLMES, KNOX & MORROW)	$ 36.24	22.54
DIVER, WET (COSHOCTON, HOLMES, KNOX & MORROW)	$ 54.36	22.54

CARP1090-007 05/01/2025

	Rates	Fringes
PILEDRIVERMEN; DIVER, DRY (MAHONING & TRUMBULL)	$ 33.90	24.82
DIVER, WET (MAHONING & TRUMBULL)	$ 50.85	24.82

CARP1090-008 05/01/2025

	Rates	Fringes
PILEDRIVERMAN (COLUMBIANA & JEFFERSON)	$ 39.01	24.91

CARP1090-009 05/01/2025

	Rates	Fringes
PILEDRIVERMEN & DIVER'S TENDER (CRAWFORD, DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA, PAULDING, SANDUSKY, SENECA, WILLIAMS & WOOD) DIVERS - $250.00 PER DAY	$ 37.98	28.63

ELEC0008-002 05/25/2020

	Rates	Fringes
CABLE SPLICER (DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA, PAULDING, PUTNAM, SANDUSKY, SENECA, WILLIAMS & WOOD)	$ 38.98	18.96

ELEC0008-002 05/27/2024

	Rates	Fringes
ELECTRICIAN (DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA, PAULDING, PUTNAM, SANDUSKY, SENECA, WILLIAMS & WOOD)	$ 48.40	25.24

ELEC0032-003 06/01/2025

	Rates	Fringes
ELECTRICIAN (ALLEN, AUGLAIZE, HARDIN, LOGAN, MERCER, SHELBY, VAN WERT & WYANDOT (CRAWFORD, JACKSON, MARSEILLES, MIFFLIN, RIDGELAND, RIDGE & SALEM TOWNSHIPS))	$ 39.17	23.60

ELEC0038-002 04/28/2025

	Rates	Fringes
ELECTRICIAN, EXCLUDING SOUND & COMMUNICATIONS WORK. FOOTNOTE: A. 6 OBSERVED HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; & CHRISTMAS DAY. EMPLOYEES WHO WORK ON A HOLIDAY SHALL BE PAID AT A RATE OF DOUBLE THEIR APPLICABLE CLASSIFIED STRAIGHT-TIME RATES FOR THE WORK PERFORMED ON SUCH HOLIDAY	$ 46.63	24.92

ELEC0038-008 04/28/2025

	Rates	Fringes
SOUND & COMMUNICATION TECHNICIAN: INSTALLER TECHNICIAN (CUYAHOGA, GEAUGA (BAINBRIDGE, CHESTER & RUSSELL TOWNSHIPS) & LORAIN (COLUMBIA TOWNSHIP)) FOOTNOTES; A. 6 PAID HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; JULY 4TH; LABOR DAY; THANKSGIVING DAY; & CHRISTMAS DAY B. 1 WEEK'S PAID VACATION FOR 1 YEAR'S SERVICE; 2 WEEKS' PAID VACATION FOR 2 OR MORE YEARS' SERVICE	$ 33.05	14.91
SOUND & COMMUNICATION TECHNICIAN: COMMUNICATIONS TECHNICIAN (CUYAHOGA, GEAUGA (BAINBRIDGE, CHESTER & RUSSELL TOWNSHIPS) & LORAIN (COLUMBIA TOWNSHIP)) FOOTNOTES; A. 6 PAID HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; JULY 4TH; LABOR DAY; THANKSGIVING DAY; & CHRISTMAS DAY B. 1 WEEK'S PAID VACATION FOR 1 YEAR'S SERVICE; 2 WEEKS' PAID VACATION FOR 2 OR MORE YEARS' SERVICE	$ 34.30	14.95

ELEC0064-003 11/30/2025

	Rates	Fringes
ELECTRICIAN (COLUMBIANA (BUTLER, FAIRFIELD, PERRY, SALEM & UNITY TOWNSHIPS) MAHONING (AUSTINTOWN, BEAVER, BERLIN, BOARDMAN, CANFIELD, ELLSWORTH, COITSVILLE, GOSHEN, GREEN, JACKSON, POLAND, SPRINGFIELD & YOUNGSTOWN TOWNSHIPS), & TRUMBULL (HUBBARD & LIBERTY TOWNSHIPS))	$ 41.49	21.81

ELEC0071-005 01/06/2025

	Rates	Fringes
LINE CONSTRUCTION: LINEMEN/CABLE SPLICER: MUNICIPAL POWER/TRANSIT PROJECTS (ASHTABULA, CUYAHOGA, GEAUGA, LAKE & LORAIN)	$ 54.96	23.09
LINE CONSTRUCTION: LINEMEN/CABLE SPLICER: DOT/TRAFFIC SIGNAL & HIGHWAY LIGHTING PROJECTS (ASHTABULA, CUYAHOGA, GEAUGA, LAKE & LORAIN)	$ 43.89	19.85
LINE CONSTRUCTION: GROUNDMAN: MUNICIPAL		

POWER/TRANSIT PROJECTS (ASHTABULA, CUYAHOGA, GEAUGA, LAKE & LORAIN)	$ 38.47	18.64
LINE CONSTRUCTION: GROUNDMAN: DOT/TRAFFIC SIGNAL & HIGHWAY LIGHTING PROJECTS (ASHTABULA, CUYAHOGA, GEAUGA, LAKE & LORAIN)	$ 31.10	16.40
LINE CONSTRUCTION: EQUIPMENT OPERATOR: MUNICIPAL POWER/TRANSIT PROJECTS (ASHTABULA, CUYAHOGA, GEAUGA, LAKE & LORAIN)	$ 49.46	21.60
LINE CONSTRUCTION: EQUIPMENT OPERATOR: DOT/TRAFFIC SIGNAL & HIGHWAY LIGHTING PROJECTS (ASHTABULA, CUYAHOGA, GEAUGA, LAKE & LORAIN)	$ 39.97	18.79

ELEC0071-010 01/06/2025

	Rates	Fringes
LINE CONSTRUCTION: LINEMAN & CABLE SPLICERS (STATEWIDE)	$ 46.02	19.04
LINE CONSTRUCTION: GROUNDMAN (STATEWIDE)	$ 29.07	14.97
LINE CONSTRUCTION: EQUIPMENT OPERATOR (STATEWIDE)	$ 40.44	17.71

ELEC0082-002 12/02/2024

	Rates	Fringes
ELECTRICIAN (CLINTON, DARKE, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN (WAYNE, CLEAR CREEK & FRANKLIN TOWNSHIPS))	$ 38.00	22.49

ELEC0082-006 11/25/2024

	Rates	Fringes
SOUND & COMMUNICATION TECHNICIAN: INSTALLER/TECHNICIAN (CLINTON, DARKE, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN (WAYNE, CLEAR CREEK & FRANKLIN TOWNSHIPS))	$ 27.70	15.71
SOUND & COMMUNICATION TECHNICIAN: CABLE PULLER (CLINTON, DARKE, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN (WAYNE, CLEAR CREEK & FRANKLIN TOWNSHIPS))	$ 13.85	5.30

ELEC0129-003 02/24/2025

	Rates	Fringes
ELECTRICIAN (LORAIN (EXCEPT COLUMBIA TOWNSHIP) & MEDINA (LITCHFIELD & LIVERPOOL TOWNSHIPS))	$ 42.95	18.81

ELEC0129-004 02/24/2025

	Rates	Fringes
ELECTRICIAN (ERIE & HURON (LYME, RIDGEFIELD, NORWALK, TOWNSEND, WAKEMAN, SHERMAN, PERU, BRONSON, HARTLAND, CLARKSFIELD, NORWICH, GREENFIELD, FAIRFIELD, FITCHVILLE & NEW LONDON TOWNSHIPS))	$ 42.95	18.81

ELEC0141-003 06/02/2024

	Rates	Fringes
CABLE SPLICER (BELMONT COUNTY)	$ 42.94	27.74

ELEC0141-003 06/02/2025

	Rates	Fringes
ELECTRICIAN (BELMONT COUNTY)	$ 39.25	31.23

ELEC0212-003 11/26/2018

	Rates	Fringes
SOUND & COMMUNICATION TECHNICIAN (BROWN, CLERMONT & HAMILTON)	$ 24.35	10.99

ELEC0212-005 06/02/2025

	Rates	Fringes
ELECTRICIAN (BROWN, CLERMONT, AND HAMILTON COUNTIES)	$ 38.05	22.97

ELEC0245-001 08/26/2024

	Rates	Fringes
LINE CONSTRUCTION: LINEMAN (ALLEN, HARDIN, VAN WERT & WYANDOT (CRAWFORD, JACKSON, MARSEILLES, MIFFLIN, RICHLAND, RIDGE & SALEM TOWNSHIPS)) FOOTNOTE: A. HALF DAY'S PAID HOLIDAY: THE LAST 4 HOURS OF THE WORKDAY PRIOR TO CHRISTMAS OR NEW YEAR'S DAY	$ 47.07	21.03
LINE CONSTRUCTION: GROUNDMAN TRUCK DRIVER (ALLEN, HARDIN, VAN WERT & WYANDOT (CRAWFORD, JACKSON, MARSEILLES, MIFFLIN, RICHLAND, RIDGE & SALEM TOWNSHIPS)): FOOTNOTE: A. HALF DAY'S PAID HOLIDAY: THE LAST 4 HOURS OF THE WORKDAY PRIOR TO CHRISTMAS OR NEW YEAR'S DAY	$ 20.59	13.62
LINE CONSTRUCTION: EQUIPMENT OPERATOR (ALLEN, HARDIN, VAN WERT & WYANDOT (CRAWFORD, JACKSON, MARSEILLES, MIFFLIN, RICHLAND, RIDGE & SALEM TOWNSHIPS)) FOOTNOTE: A. HALF DAY'S PAID HOLIDAY: THE LAST 4 HOURS OF THE WORKDAY PRIOR TO CHRISTMAS OR NEW YEAR'S DAY	$ 32.95	17.08

ELEC0245-003 01/01/2025

	Rates	Fringes
LINE CONSTRUCTION: TRAFFIC SIGNAL & LIGHTING TECHNICIAN (DEFIANCE, FULTON, HANCOCK, HENRY, HURON, LUCAS, OTTAWA, PAULDING, PUTNAM, SANDUSKY, SENECA, WILLIAMS, AND WOOD COUNTIES) FOOTNOTE: A. 6 OBSERVED HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; & CHRISTMAS DAY. EMPLOYEES WHO WORK ON A HOLIDAY SHALL BE PAID AT A RATE OF DOUBLE THEIR APPLICABLE CLASSIFIED STRAIGHT-TIME RATES FOR THE WORK PERFORMED ON SUCH HOLIDAY	$ 42.18	19.91
LINE CONSTRUCTION: OPERATOR - CLASS 2 (DEFIANCE, FULTON, HANCOCK, HENRY, HURON, LUCAS, OTTAWA, PAULDING, PUTNAM, SANDUSKY, SENECA, WILLIAMS, AND WOOD COUNTIES) FOOTNOTE: A. 6 OBSERVED HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; & CHRISTMAS DAY. EMPLOYEES WHO WORK ON A HOLIDAY SHALL BE PAID AT A RATE OF DOUBLE THEIR APPLICABLE CLASSIFIED STRAIGHT-TIME RATES FOR THE WORK PERFORMED ON SUCH HOLIDAY	$ 32.81	17.29
LINE CONSTRUCTION: OPERATOR - CLASS 1 (DEFIANCE, FULTON, HANCOCK, HENRY, HURON, LUCAS, OTTAWA, PAULDING, PUTNAM, SANDUSKY, SENECA, WILLIAMS, AND WOOD COUNTIES) FOOTNOTE: A. 6 OBSERVED HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; & CHRISTMAS DAY. EMPLOYEES WHO WORK ON A HOLIDAY SHALL BE PAID AT A RATE OF DOUBLE THEIR APPLICABLE CLASSIFIED STRAIGHT-TIME RATES FOR THE WORK PERFORMED ON SUCH HOLIDAY	$ 37.50	18.60

LINE CONSTRUCTION: LINEMAN (DEFIANCE, FULTON, HANCOCK, HENRY, HURON, LUCAS, OTTAWA, PAULDING, PUTNAM, SANDUSKY, SENECA, WILLIAMS, AND WOOD COUNTIES) FOOTNOTE: A. 6 OBSERVED HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; & CHRISTMAS DAY. EMPLOYEES WHO WORK ON A HOLIDAY SHALL BE PAID AT A RATE OF DOUBLE THEIR APPLICABLE CLASSIFIED STRAIGHT-TIME RATES FOR THE WORK PERFORMED ON SUCH HOLIDAY.....$ 46.87 21.22

LINE CONSTRUCTION: HELI-ARC WELDING (DEFIANCE, FULTON, HANCOCK, HENRY, HURON, LUCAS, OTTAWA, PAULDING, PUTNAM, SANDUSKY, SENECA, WILLIAMS, AND WOOD COUNTIES) FOOTNOTE: A. 6 OBSERVED HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; & CHRISTMAS DAY. EMPLOYEES WHO WORK ON A HOLIDAY SHALL BE PAID AT A RATE OF DOUBLE THEIR APPLICABLE CLASSIFIED STRAIGHT-TIME RATES FOR THE WORK PERFORMED ON SUCH HOLIDAY.....$ 47.17 21.31

LINE CONSTRUCTION: GROUNDMAN/TRUCK DRIVER (DEFIANCE, FULTON, HANCOCK, HENRY, HURON, LUCAS, OTTAWA, PAULDING, PUTNAM, SANDUSKY, SENECA, WILLIAMS, AND WOOD COUNTIES) FOOTNOTE: A. 6 OBSERVED HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; & CHRISTMAS DAY. EMPLOYEES WHO WORK ON A HOLIDAY SHALL BE PAID AT A RATE OF DOUBLE THEIR APPLICABLE CLASSIFIED STRAIGHT-TIME RATES FOR THE WORK PERFORMED ON SUCH HOLIDAY.....$ 20.51 13.84

LINE CONSTRUCTION: CABLE SPLICER (DEFIANCE, FULTON, HANCOCK, HENRY, HURON, LUCAS, OTTAWA, PAULDING, PUTNAM, SANDUSKY, SENECA, WILLIAMS, AND WOOD COUNTIES) : FOOTNOTE: A. 6 OBSERVED HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; & CHRISTMAS DAY. EMPLOYEES WHO WORK ON A HOLIDAY SHALL BE PAID AT A RATE OF DOUBLE THEIR APPLICABLE CLASSIFIED STRAIGHT-TIME RATES FOR THE WORK PERFORMED ON SUCH HOLIDAY.....$ 53.90 23.19

ELEC0245-004 01/01/2025

	Rates	Fringes
LINE CONSTRUCTION: OPERATOR - CLASS 2 (ERIE COUNTY) FOOTNOTE: A. 6 OBSERVED HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; & CHRISTMAS DAY. EMPLOYEES WHO WORK ON A HOLIDAY SHALL BE PAID AT A RATE OF DOUBLE THEIR APPLICABLE CLASSIFIED STRAIGHT-TIME RATES FOR THE WORK PERFORMED ON SUCH HOLIDAY.....	$ 32.81	17.29
LINE CONSTRUCTION: OPERATOR - CLASS 1 (ERIE COUNTY) FOOTNOTE: A. 6 OBSERVED HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; & CHRISTMAS DAY. EMPLOYEES WHO WORK ON A HOLIDAY SHALL BE PAID AT A RATE OF DOUBLE THEIR APPLICABLE CLASSIFIED STRAIGHT-TIME RATES FOR THE WORK PERFORMED ON SUCH HOLIDAY.....	$ 37.50	18.60
LINE CONSTRUCTION: LINEMAN (ERIE COUNTY) FOOTNOTE: A. 6 OBSERVED HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; & CHRISTMAS DAY. EMPLOYEES WHO WORK ON A HOLIDAY SHALL BE PAID AT A RATE OF DOUBLE THEIR APPLICABLE CLASSIFIED STRAIGHT-TIME RATES FOR THE WORK PERFORMED ON SUCH HOLIDAY.....	$ 46.87	21.22

LINE CONSTRUCTION: GROUNDMAN/TRUCK DRIVER (ERIE COUNTY) FOOTNOTE: A. 6 OBSERVED HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; & CHRISTMAS DAY. EMPLOYEES WHO WORK ON A HOLIDAY SHALL BE PAID AT A RATE OF DOUBLE THEIR APPLICABLE CLASSIFIED STRAIGHT-TIME RATES FOR THE WORK PERFORMED ON SUCH HOLIDAY.....$ 20.51 13.84

LINE CONSTRUCTION: CABLE SPLICER (ERIE COUNTY) FOOTNOTE: A. 6 OBSERVED HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; & CHRISTMAS DAY. EMPLOYEES WHO WORK ON A HOLIDAY SHALL BE PAID AT A RATE OF DOUBLE THEIR APPLICABLE CLASSIFIED STRAIGHT-TIME RATES FOR THE WORK PERFORMED ON SUCH HOLIDAY.....$ 53.90 23.19

ELEC0246-001 10/28/2024

	Rates	Fringes
ELECTRICIAN (CARROLL, COLUMBIANA, HARRISON AND JEFFERSON COUNTIES IN OHIO; BROOKE AND HANCOCK COUNTIES IN WEST VIRGINIA.) FOOTNOTE: A. 1 1/2 PAID HOLIDAYS: THE LAST SCHEDULED WORKDAY PRIOR TO CHRISTMAS & 4 HOURS ON GOOD FRIDAY.....	$ 44.00	37.68

ELEC0306-005 05/27/2024

	Rates	Fringes
ELECTRICIAN (MEDINA (BRUNSWICK, CHATHAM, GRANGER, GUILFORD, HARRISVILLE, HINCKLEY, HOMER, LAFAYETTE, MEDINA, MONTVILLE, SHARON, SPENCER, WADSWORTH, WESTFIELD & YORK TOWNSHIPS), PORTAGE (ATWATER, AURORA, BRIMFIELD, DEERFIELD, FRANKLIN, MANTUA, RANDOLPH, RAVENNA, ROOTSTOWN, SHALERSVILLE, STREETSBORO & SUFFIELD TOWNSHIPS), SUMMIT & WAYNE (BAUGHMAN, CANAAN, CHESTER, CHIPPEWA, CONGRESS, GREEN, MILTON, & WAYNE TOWNSHIPS)).....	$ 42.55	20.95
CABLE SPLICER (MEDINA (BRUNSWICK, CHATHAM, GRANGER, GUILFORD, HARRISVILLE, HINCKLEY, HOMER, LAFAYETTE, MEDINA, MONTVILLE, SHARON, SPENCER, WADSWORTH, WESTFIELD & YORK TOWNSHIPS), PORTAGE (ATWATER, AURORA, BRIMFIELD, DEERFIELD, FRANKLIN, MANTUA, RANDOLPH, RAVENNA, ROOTSTOWN, SHALERSVILLE, STREETSBORO & SUFFIELD TOWNSHIPS), SUMMIT & WAYNE (BAUGHMAN, CANAAN, CHESTER, CHIPPEWA, CONGRESS, GREEN, MILTON, & WAYNE TOWNSHIPS)).....	$ 46.81	20.95

ELEC0317-002 06/01/2009

	Rates	Fringes
CABLE SPLICER (GALLIA & LAWRENCE).....	$ 32.68	18.13

ELEC0317-002 06/02/2025

	Rates	Fringes
ELECTRICIAN (GALLIA & LAWRENCE).....	$ 41.15	29.35

ELEC0540-005 06/30/2025

	Rates	Fringes
ELECTRICIAN (CARROLL (NORTHERN HALF, INCLUDING FOX, HARRISON, ROSE & WASHINGTON TOWNHSHIPS), COLUMBIANA (KNOX TOWNSHIP), HOLMES, MAHONING (SMITH TOWNSHIP), STARK, TUSCARAWAS (NORTH OF AUBURN, CLAY, RUSH & YORK TOWNSHIPS), AND WAYNE		

(SOUTH OF BAUGHMAN, CHESTER, GREEN & WAYNE TOWNSHIPS) COUNTIES)	$ 39.86	29.19

ELEC0573-003 06/01/2025

	Rates	Fringes
ELECTRICIAN (ASHTABULA (COLEBROOK, WAYNE, WILLIAMSFIELD, ORWELL & WINDSOR TOWNSHIPS), GEAUGA (AUBURN, MIDDLEFIELD, PARKMAN & TROY TOWNSHIPS), MAHONING (MILTON TOWNSHIP), PORTAGE (CHARLESTOWN, EDINBURG, FREEDOM, HIRAM, NELSON, PALMYRA, PARIS & WINDHAM TOWNSHIPS), AND TRUMBULL (EXCEPT LIBERTY & HUBBARD TOWNSHIPS))	$ 42.20	23.37

ELEC0575-001 05/29/2023

	Rates	Fringes
ELECTRICIAN (ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON (BLOOMFIELD, FRANKLIN, HAMILTON, JEFFERSON, LICK, MADISON, SCIOTO, COAL, JACKSON, LIBERTY, MILTON & WASHINGTON TOWNSHIPS), PICKAWAY (DEER CREEK, PERRY, PICKAWAY, SALT CREEK & WAYNE TOWNSHIPS), PIKE (BEAVER, BENTON, JACKSON, MIFFLIN, PEBBLE, PEEPEE, PERRY, SEAL, CAMP CREEK, NEWTON, SCIOTO, SUNFISH, UNION & MARION TOWNSHIPS), ROSS, SCIOTO & VINTON (CLINTON, EAGLE, ELK, HARRISON, JACKSON, RICHLAND & SWAN TOWNSHIPS))	$ 37.00	22.26

ELEC0648-001 03/05/2018

	Rates	Fringes
CABLE SPLICER (BUTLER AND WARREN COUNTIES (DEERFIELD, HAMILTON, HARLAN, MASSIE, SALEM, TURTLE CREEK, UNION & WASHINGTON TOWNSHIPS))	$ 30.50	18.23

ELEC0648-001 09/01/2025

	Rates	Fringes
ELECTRICIAN (BUTLER AND WARREN COUNTIES (DEERFIELD, HAMILTON, HARLAN, MASSIE, SALEM, TURTLE CREEK, UNION & WASHINGTON TOWNSHIPS))	$ 38.00	24.16

ELEC0673-004 02/01/2020

	Rates	Fringes
CABLE SPLICER (ASHTABULA (EXCLUDING ORWELL, COLEBROOK, WILLIAMSFIELD, WAYNE & WINDSOR TOWNSHIPS), GEAUGA (BURTON, CHARDON, CLARIDON, HAMBDEN, HUNTSBURG, MONTVILLE, MUNSON, NEWBURY & THOMPSON TOWNSHIPS) AND LAKE COUNTIES)	$ 33.81	21.47

ELEC0673-004 05/26/2025

	Rates	Fringes
ELECTRICIAN (ASHTABULA (EXCLUDING ORWELL, COLEBROOK, WILLIAMSFIELD, WAYNE & WINDSOR TOWNSHIPS), GEAUGA (BURTON, CHARDON, CLARIDON, HAMBDEN, HUNTSBURG, MONTVILLE, MUNSON, NEWBURY & THOMPSON TOWNSHIPS) AND LAKE COUNTIES)	$ 41.17	24.58

ELEC0683-002 06/02/2025

	Rates	Fringes
ELECTRICIAN (CHAMPAIGN, CLARK, DELAWARE, FAIRFIELD,		

FRANKLIN, MADISON, PICKAWAY (CIRCLEVILLE, DARBY, HARRISON, JACKSON, MADISON, MONROE, MUHLENBERG, SCIOTO, WALNUT & WASHINGTON TOWNSHIPS), AND UNION COUNTIES).....$ 43.00 26.37

CABLE SPLICER (CHAMPAIGN, CLARK, DELAWARE, FAIRFIELD, FRANKLIN, MADISON, PICKAWAY (CIRCLEVILLE, DARBY, HARRISON, JACKSON, MADISON, MONROE, MUHLENBERG, SCIOTO, WALNUT & WASHINGTON TOWNSHIPS), AND UNION COUNTIES).....$ 44.00 26.40

ELEC0688-003 05/30/2022

	Rates	Fringes
ELECTRICIAN (ASHLAND, CRAWFORD, HURON (RICHMOND, NEW HAVEN, RIPLEY & GREENWICH TOWNSHIPS), KNOX (LIBERTY, CLINTON, UNION, HOWARD, MONROE, MIDDLEBERRY, MORRIS, WAYNE, BERLIN, PIKE, BROWN & JEFFERSON TOWNSHIPS), MARION, MORROW, RICHLAND AND WYANDOT (SYCAMORE, CRANE, EDEN, PITT, ANTRIM & TYMOCHTEE TOWNSHIPS) COUNTIES).....	$ 32.30	21.83

ELEC0972-002 06/01/2024

	Rates	Fringes
ELECTRICIAN (ATHENS, MEIGS, MONROE, MORGAN, NOBLE, VINTON (BROWN, KNOX, MADISON, VINTON & WILKESVILLE TOWNSHIPS), AND WASHINGTON COUNITES).....	$ 40.00	33.32
CABLE SPLICER (ATHENS, MEIGS, MONROE, MORGAN, NOBLE, VINTON (BROWN, KNOX, MADISON, VINTON & WILKESVILLE TOWNSHIPS), AND WASHINGTON COUNITES)...	$ 40.25	33.33

ELEC1105-001 05/27/2024

	Rates	Fringes
ELECTRICIAN (COSHOCTON, GUERNSEY, KNOX (JACKSON, CLAY, MORGAN, MILLER, MILFORD, HILLIAR, BUTLER, HARRISON, PLEASANT & COLLEGE TOWNSHIPS), LICKING, MUSKINGUM, PERRY, AND TUSCARAWAS (AUBURN, YORK, CLAY, JEFFERSON, RUSH, OXFORD, WASHINGTON, SALEM, PERRY & BUCKS TOWNSHIPS) COUNTIES).....	$ 39.60	24.41

ENGI0018-003 05/01/2024

	Rates	Fringes
POWER EQUIPMENT OPERATOR GROUP 7 BOOM FROM 180 AND OVER. (ASHTABULA, CUYAHOGA, ERIE, GEAUGA, LAKE, LORAIN, MEDINA, PORTAGE, AND SUMMIT COUNTIES).....	$ 46.63	16.41
POWER EQUIPMENT OPERATOR GROUP 6 MASTER MECHANIC & BOOM FROM 150 TO 180. (ASHTABULA, CUYAHOGA, ERIE, GEAUGA, LAKE, LORAIN, MEDINA, PORTAGE, AND SUMMIT COUNTIES).....	$ 46.63	16.41
POWER EQUIPMENT OPERATOR GROUP 5 COMPRESSOR (PORTABLE, SEWER, HEAVY & HIGHWAY); DRUM FIREPERSON (ASPHALT PLANT); GENERATOR; MASONRY FORK LIFT; INBOARD-OUTBOARD MOTOR BOAT LAUNCH; OIL HEATER (ASPHALT PLANT); OILER/HELPER; POWER DRIVEN HEATER; POWER SWEEPER & SCRUBBER; PUMP (UNDER 4"" DISCHARGE); SIGNALPERSON; TIRE REPAIRPERSON; VAC/ALLS; CRANES - COMPACT, TRACK OR RUBBER UNDER 4,000 POUND CAPACITY; FUELING AND GREASING; AND CHAINMEN. (ASHTABULA, CUYAHOGA, ERIE, GEAUGA, LAKE, LORAIN, MEDINA, PORTAGE, AND SUMMIT COUNTIES).	$ 37.98	16.41
POWER EQUIPMENT OPERATOR GROUP 4 BACKFILLER; BALLAST RE-LOCATOR; BARS, JOINT & MESH INSTALLING		

MACHINE; BATCH PLANT; BORING MACHINE OPERATOR (48""
OR LESS); BULL FLOATS; BURLAP & CURING MACHINE;
CONCRETE PLANT (CAPACITY 4 YD. & UNDER); CONCRETE
SAW (MULTIPLE); CONVEYOR (HIGHWAY); CRUSHER;
DECKHAND; FARM-TYPE TRACTOR WITH ATTACHMENTS
(HIGHWAY); FINISHING MACHINE; FIREPERSON, FLOATING
EQUIPMENT (ALL TYPES); FORKLIFT; FORM TRENCHER;
HYDRO HAMMER EXPECT MASONARY; HYDRO SEEDER;
PAVEMENT BREAKER; PLANT MIXER; POST DRIVER; POST
HOLE DIGGER (POWER AUGER); POWER BRUSH BURNER;
POWER FORM HANDLING EQUIPMENT; ROAD WIDENING
TRENCHER; ROLLER (BRICK, GRADE & MACADAM);
SELF-PROPELLED POWER SPREADER; SELF-PROPELLED POWER
SUBGRADER; STEAM FIREPERSON; TRACTOR (PULLING
SHEEPFOOT, ROLLER OR GRADER); AND VIBRATORY
COMPACTOR WITH INTEGRAL POWER. (ASHTABULA,
CUYAHOGA, ERIE, GEAUGA, LAKE, LORAIN, MEDINA,
PORTAGE, AND SUMMIT COUNTIES).....$ 43.27 16.41

POWER EQUIPMENT OPERATOR GROUP 3 A-FRAME; AIR
COMPRESSOR ON TUNNEL WORK (LOW PRESSURE); ASPHALT
PLANT ENGINEER (PORTAGE AND SUMMIT COUNTIES ONLY);
BOBCAT-TYPE AND/OR SKID STEER LOADER WITH OR
WITHOUT ATTACHMENTS; HIGHWAY DRILLS (ALL TYPES);
LOCOMOTIVE (NARROW GAUGE); MATERIAL HOIST/ELEVATOR;
MIXER, CONCRETE (MORE THAN ONE BAG CAPACITY);
MIXER, ONE BAG CAPACITY (SIDE LOADER); POWER BOILER
(OVER 15 LBS. PRESSURE) PUMP OPERATOR INSTALLING &
OPERATING WELL POINTS; PUMP (4"" & OVER DISCHARGE);
ROLLER, ASPHALT; ROTOVATOR (LIME SOIL STABILIZER);
SWITCH & TIE TAMPERS (WITHOUT LIFTING & ALIGNING
DEVICE); UTILITY OPERATOR (SMALL EQUIPMENT);
WELDING MACHINES; AND RAILROAD TIE
INSERTER/REMOVER; ARTICULATING/STRAIGHT BED END
DUMPS IF ASSIGNED (MINUS $4.00 PER HOUR.
(ASHTABULA, CUYAHOGA, ERIE, GEAUGA, LAKE, LORAIN,
MEDINA, PORTAGE, AND SUMMIT COUNTIES).....$ 44.49 16.41

POWER EQUIPMENT OPERATOR GROUP 2 ASPHALT PAVER;
AUTOMATIC SUBGRADER MACHINE, SELF-PROPELLED (CMI
TYPE); BOBCAT TYPE AND/OR SKID STEER LOADER WITH
HOE ATTACHMENT GREATER THAN 7,000 LBS.; BORING
MACHINE MORE THAN 48""; BULLDOZER; ENDLOADER;
HORIZONTAL DIRECTIONAL DRILL (OVER 50,000 FT LBS
THRUST); HYDRO MILLING MACHINE; KOLMAN-TYPE LOADER
(PRODUCTION TYPE-DIRT); LEAD GREASEMAN; LIGHTING &
TRAFFIC SIGNAL INSTALLATION EQUIPMENT (INCLUDES ALL
GROUPS OR CLASSIFICATIONS); MATERIAL TRANSFER
EQUIPMENT (SHUTTLE BUGGY) ASPHALT; PETTIBONE-RAIL
EQUIPMENT; POWER GRADER; POWER SCRAPER; PUSH CAT;
ROTOMILL (ALL), GRINDERS & PLANERS OF ALL TYPES;
TRENCH MACHINE (24"" WIDE & UNDER); VERMEER TYPE
CONCRETE SAW; AND MAINTENANCE OPERATORS (PORTAGE
AND SUMMIT COUNTIES ONLY). (ASHTABULA, CUYAHOGA,
ERIE, GEAUGA, LAKE, LORAIN, MEDINA, PORTAGE, AND
SUMMIT COUNTIES).....$ 45.53 16.41

POWER EQUIPMENT OPERATOR GROUP 1 AIR COMPRESSOR ON
STEEL ERECTION; BARRIER MOVING MACHINE; BOILER
OPERATOR ON COMPRESSOR OR GENERATOR WHEN MOUNTED ON
A RIG; CABLEWAY; COMBINATION CONCRETE MIXER &
TOWER; CONCRETE PLANT (OVER 4 YD. CAPACITY);
CONCRETE PUMP; CRANE (ALL TYPES, INCLUDING BOOM
TRUCK, CHERRY PICKER); CRANE-COMPACT, TRACK OR
RUBBER OVER 4,000 LBS. CAPACITY; CRANES-SELF
ERECTING, STATIONARY, TRACK OR TRUCK (ALL
CONFIGURATIONS); DERRICK; DRAGLINE; DREDGE (DIPPER,

CLAM OR SUCTION); ELEVATING GRADER OR EUCLID LOADER; FLOATING EQUIPMENT (ALL TYPES); GRADALL; HELICOPTER CREW (OPERATOR-HOIST OR WINCH); HOE (ALL TYPES); HOISTING ENGINE ON SHAFT OR TUNNEL WORK; HYDRAULIC GANTRY (LIFTING SYSTEM); INDUSTRIAL-TYPE TRACTOR; JET ENGINE DRYER (D8 OR D9) DIESEL TRACTOR; LOCOMOTIVE (STANDARD GAUGE); MAINTENANCE OPERATOR CLASS A; MIXER, PAVING (SINGLE OR DOUBLE DRUM); MUCKING MACHINE; MULTIPLE SCRAPER; PILEDRIVING MACHINE (ALL TYPES); POWER SHOVEL; PRENTICE LOADER; QUAD 9 (DOUBLE PUSHER); RAIL TAMPER (WITH AUTO LIFTING & ALIGNING DEVICE); REFRIGERATING MACHINE (FREEZER OPERATION); ROTARY DRILL, ON CAISSON WORK; ROUGH TERRAIN FORK LIFT WITH WINCH/HOIST; SIDE-BOOM; SLIP-FORM PAVER; TOWER DERRICK; TREE SHREDDER; TRENCH MACHINE (OVER 24"" WIDE); TRUCK MOUNTED CONCRETE PUMP; TUG BOAT; TUNNEL MACHINE AND/OR MINING MACHINE; WHEEL EXCAVATOR; AND ASPHALT PLANT ENGINEER (CLEVELAND DISTRICT ONLY). (ASHTABULA, CUYAHOGA, ERIE, GEAUGA, LAKE, LORAIN, MEDINA, PORTAGE, AND SUMMIT COUNTIES).....$ 45.63 16.41

ENGI0018-004 05/01/2024

	Rates	Fringes
POWER EQUIPMENT OPERATOR GROUP 7 (ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LUCAS, MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PA.....	$ 45.14	16.41
POWER EQUIPMENT OPERATOR GROUP 6 (ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LUCAS, MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PA.....	$ 45.14	16.41
POWER EQUIPMENT OPERATOR GROUP 5 (ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LUCAS, MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PA.....	$ 36.34	16.41
POWER EQUIPMENT OPERATOR GROUP 4 (ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA,		

GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN,
HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON,
JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN,
LUCAS, MADISON, MARION, MEIGS, MERCER, MIAMI,
MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM,
NOBLE, OTTAWA, PA.....$ 41.80 16.41

POWER EQUIPMENT OPERATOR GROUP 3 (ADAMS, ALLEN,
ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER,
CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON,
COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE,
FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA,
GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN,
HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON,
JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN,
LUCAS, MADISON, MARION, MEIGS, MERCER, MIAMI,
MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM,
NOBLE, OTTAWA, PA.....$ 42.98 16.41

POWER EQUIPMENT OPERATOR GROUP 2 (ADAMS, ALLEN,
ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER,
CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON,
COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE,
FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA,
GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN,
HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON,
JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN,
LUCAS, MADISON, MARION, MEIGS, MERCER, MIAMI,
MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM,
NOBLE, OTTAWA, PA.....$ 44.02 16.41

POWER EQUIPMENT OPERATOR GROUP 1 (ADAMS, ALLEN,
ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER,
CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON,
COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE,
FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA,
GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN,
HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON,
JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN,
LUCAS, MADISON, MARION, MEIGS, MERCER, MIAMI,
MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM,
NOBLE, OTTAWA, PA.....$ 44.14 16.41

ENGI0066-023 06/01/2023

	Rates	Fringes
POWER EQUIPMENT OPERATOR: HAZARDOUS/TOXIC WASTE PROJECTS GROUP 5 - C & D - BRAKEPERSON; FIREPERSON; & OILER. (COLUMBIANA, MAHONING & TRUMBULL COUNTIES)	$ 28.53	24.30
POWER EQUIPMENT OPERATOR: HAZARDOUS/TOXIC WASTE PROJECTS GROUP 4 - C & D - AIR CURTAIN DESTRUCTOR & SIMILAR TYPE; BATCH PLANT-JOB RELATED; BOILER OPERATOR; COMPRESSOR; CONVEYOR; CURB BUILDER, SELF-PROPELLED; DRILL WAGON; GENERATOR SET; GENERATOR-STEAM; HEATER-PORTABLE POWER; HYDRAULIC MANIUPLATOR CRANE; JACK-HYDRAULIC POWER DRIVEN; JACK-HYARAULIC (RAILROAD); LADAVATOR; MINOR MACHINE OPERATOR; MIXER-CONCRETE; MULCHING MACHINE; PIN PULLER; POWER BROOM; PULVERIZER; PUMP; ROAD FINISHING MAHINC (PULL TYPE); SAW-CONCRETE-SELF-PROPELLED (HIGHWAY WORK); SIGNAL PERSON; SPRAY CURE MACHINE-MOTOR POWERED; STUMP CUTTER; TRACTOR; TRENCHER FORM; WATER BLASTER; STEAM JENNY; SYPHON; VIBRATOR-GASOLINE; & WELDING MACHINE. (COLUMBIANA, MAHONING & TRUMBULL COUNTIES)	$ 31.65	24.30

POWER EQUIPMENT OPERATOR: HAZARDOUS/TOXIC WASTE PROJECTS GROUP 3 - C & D - ASPHALT PLANT; BENDING MACHINE (PIPELINE OR TYPE); BORING MACHINE, MOTOR DRIVEN; CHIP HARVESTER WITHOUT BOOM; CLEANING MACHINE, PIPELINE TYPE; COATING MACHINE, PIPELINE TYPE; COMPACTOR; CONCRETE BELT PLACER; CONCRETE FINISHER; CONCRETE PLANER OR ASPHALT; CONCRETE SPREADER; ELEVATOR; FORK LIFT (HOME BUILDING ONLY); FORK LIFT & LULLS; FORK LIFT WALK BEHIND (HOISTING OVER 1 BUCK HIGH); FORM LINE MACHINE; GREASE TRUCK OPERATOR; GROUT PUMP; GUNNITE MACHINE; HORIZONTAL DIRECTIONAL DRILL LOCATOR; SINGLE DRUM HOIST WITH OR WITHOUT TOWER; HUCK BOLTING MACHINE; HYDRAULIC SCAFFOLD (HOISTING BUILDING MATERIALS); PAVING BREAKER (SELF=PROPELLED OR RIDDEN); PIPE DREAM; POT FIREPERSON (POWER AGITATED); REFRIGERATION PLANT; ROAD WIDENER; ROLLER; SASGEN DERRICK; SEEDING MACHINE; SOIL STABILIZER (PUMP TYPE); SPRAY CURE MACHINE, SELF-PROPELLED; STRAW BLOWER MACHINE; SUB-GRADER; TUBE FINISHER OR BROOM C.M.I. OR SIMILAR TYPE; & TUGGER HOIST(COLUMBIANA, MAHONING & TRUMBULL COUNTIES).....$ 35.27 24.30

POWER EQUIPMENT OPERATOR: HAZARDOUS/TOXIC WASTE PROJECTS GROUP 2 - C & D - ASPHALT HEATER PLANER; BACKFILLER WITH DRAG ATTACHMENT; BACKHOE; BACKHOE WITH SHEAR ATTACHED; BACKHOE-REAR PIVOTAL SWING; BATCH PLANT-CENTRAL MIX CONCRETE; BATCH PLANT, PORTABLE CONCRETE; BERM BUILDER-AUTOMATIC; BOAT DERRICK; BOAT-TUG; BORING MACHINE ATTACHED TO TRACTOR; BULLCLAM; VULLDOZER; C.M.I. ROAD BUILDER & SIMILAR TYPE; CABLE PLACER &LATYER; CARRIER-STRADDLE; CARRYALL-SCRAPER OR SCOPP; CHICAGO BOOM; COMPACTOR WITH BLAD ATTACHED; CONCRETE SAW (VERMEER OR SIMILAR TYPE); CONCRETE SPREADER FINISHER; COMBINATION, BIDWELL MACHINE; CRANE; CRANE-ELECTRIC OVERHEAD; CRANE-ROUGH TERRAIN; CRANE-SIDE BOOM; CRANE-TRUCK; CRANE-TOWER; DERRICK-BOOM; DERRICK-CAR; DIGGER -WHEEL (NOT TRENCHER OR ROAD WIDENER); DOUBLE NINE; DRAG LINE; DREDGE; DRILL-KENNY OR SIMILAR TYPE; EASY POUR MEDIAN BARRIER MACHINE (OR SIMILAR TYPE); ELECTROMATIC; FRANKIE PILE; GRADALL; GRADER; GURRY; SELF-PROPELLED; HEAVY EQUIPMENT ROBOTICS OPERATOR/MECHANIC; HOIST-MONORAIL; HOIST-STATIONARY & MOBILE TRACTOR; HOIST, 2 OR 3 DRUM; HORIZONTAL DIRECTIONAL DRILL OPERATOR; JACKALL; JUMBO MACHINE; KOCAL & KUHLMAN; LAND-SEAGOING VEHICLE; LOADER, ELEVATING; LOADER, FRONT END; LOADER, SKID STEER; LOCOMOTIVE; MECHANIC/WELDER; METRO CHIP HARVESTER WITH BOO; MUCKING MACHINE; PAVER-ASPHALT FINISHING MACHINE; PAVER-ROAD CONCRETE; PAVER-SLIP FORM (C.M.I. OR SIMILAR); PLACE CRETE MACHINE WITH BOOM; POST DRIVER (CARRIER MOUNTED); POWER DRIVEN HYDRAULIC PUMP & JACK (WHEN USED IN SLIP FORM OR LIFT SLAB CONSTRUCTION); PUMP CRETE MACHINE; REGULATOR-BALLAST; HYRAULIC POWER UNIT NOT ATTACHED TO RIG FOR PILE DRILLINGS; RIGS-DRILLING; ROTO MILL OR SIMILAR FULL LANE (8' WIDE & OVER); ROTO MILL OR SIMILAR TYPE (UNDER 8'); SHOVEL; SLIP FORM CURB MACHINE; SPEEDWING; SPIKEMASTER; STONECRUSHER; TIE PULLER & LOADER; TIE TAMPER; TRACTOR-DOUBLE BOOM; TRACTOR WITH ATTACHMENTS; TRUCK-BOOM; TRUCK-TIRE; TRENCH MACHINE; TUNNEL MACHINE (MARK 21 JAVA OR SIMILAR) & WHIRLEY (OR SIMILAR TYPE) (COLUMBIANA,

MAHONING & TRUMBULL COUNTIES).....$ 40.61 24.30
POWER EQUIPMENT OPERATOR: HAZARDOUS/TOXIC WASTE PROJECTS GROUP 1 - C & D - RIG, PILE DRIVER OR CAISSON TYPE; & RIG, PILE HYDRAULIC UNIT ATTACHED. (COLUMBIANA, MAHONING & TRUMBULL COUNTIES).....$ 40.91 24.30
POWER EQUIPMENT OPERATOR: ASBESTOS; HAZARDOUS/TOXIC WASTE PROJECTS GROUP 5 - A & B - BRAKEPERSON; FIREPERSON; & OILER. (COLUMBIANA, MAHONING & TRUMBULL COUNTIES).....$ 31.13 24.30
POWER EQUIPMENT OPERATOR: ASBESTOS; HAZARDOUS/TOXIC WASTE PROJECTS GROUP 4 - A & B - AIR CURTAIN DESTRUCTOR & SIMILAR TYPE; BATCH PLANT-JOB RELATED; BOILER OPERATOR; COMPRESSOR; CONVEYOR; CURB BUILDER, SELF-PROPELLED; DRILL WAGON; GENERATOR SET; GENERATOR-STEAM; HEATER-PORTABLE POWER; HYDRAULIC MANIUPLATOR CRANE; JACK-HYDRAULIC POWER DRIVEN; JACK-HYARAULIC (RAILROAD); LADAVATOR; MINOR MACHINE OPERATOR; MIXER-CONCRETE; MULCHING MACHINE; PIN PULLER; POWER BROOM; PULVERIZER; PUMP; ROAD FINISHING MAHINC (PULL TYPE); SAW-CONCRETE-SELF-PROPELLED (HIGHWAY WORK); SIGNAL PERSON; SPRAY CURE MACHINE-MOTOR POWERED; STUMP CUTTER; TRACTOR; TRENCHER FORM; WATER BLASTER; STEAM JENNY; SYPHON; VIBRATOR-GASOLINE; & WELDING MACHINE. (COLUMBIANA, MAHONING & TRUMBULL COUNTIES).....$ 34.52 24.30
POWER EQUIPMENT OPERATOR: ASBESTOS; HAZARDOUS/TOXIC WASTE PROJECTS GROUP 3 - A & B - ASPHALT PLANT; BENDING MACHINE (PIPELINE OR TYPE); BORING MACHINE, MOTOR DRIVEN; CHIP HARVESTER WITHOUT BOOM; CLEANING MACHINE, PIPELINE TYPE; COATING MACHINE, PIPELINE TYPE; COMPACTOR; CONCRETE BELT PLACER; CONCRETE FINISHER; CONCRETE PLANER OR ASPHALT; CONCRETE SPREADER; ELEVATOR; FORK LIFT (HOME BUILDING ONLY); FORK LIFT & LULLS; FORK LIFT WALK BEHIND (HOISTING OVER 1 BUCK HIGH); FORM LINE MACHINE; GREASE TRUCK OPERATOR; GROUT PUMP; GUNNITE MACHINE; HORIZONTAL DIRECTIONAL DRILL LOCATOR; SINGLE DRUM HOIST WITH OR WITHOUT TOWER; HUCK BOLTING MACHINE; HYDRAULIC SCAFFOLD (HOISTING BUILDING MATERIALS); PAVING BREAKER (SELF=PROPELLED OR RIDDEN); PIPE DREAM; POT FIREPERSON (POWER AGITATED); REFRIGERATION PLANT; ROAD WIDENER; ROLLER; SASGEN DERRICK; SEEDING MACHINE; SOIL STABILIZER (PUMP TYPE); SPRAY CURE MACHINE, SELF-PROPELLED; STRAW BLOWER MACHINE; SUB-GRADER; TUBE FINISHER OR BROOM C.M.I. OR SIMILAR TYPE; & TUGGER HOIST(COLUMBIANA, MAHONING & TRUMBULL COUNTIES).....$ 38.47 24.30
POWER EQUIPMENT OPERATOR: ASBESTOS; HAZARDOUS/TOXIC WASTE PROJECTS GROUP 2 - A & B - ASPHALT HEATER PLANER; BACKFILLER WITH DRAG ATTACHMENT; BACKHOE; BACKHOE WITH SHEAR ATTACHED; BACKHOE-REAR PIVOTAL SWING; BATCH PLANT-CENTRAL MIX CONCRETE; BATCH PLANT, PORTABLE CONCRETE; BERM BUILDER-AUTOMATIC; BOAT DERRICK; BOAT-TUG; BORING MACHINE ATTACHED TO TRACTOR; BULLCLAM; VULLDOZER; C.M.I. ROAD BUILDER & SIMILAR TYPE; CABLE PLACER &LATYER; CARRIER-STRADDLE; CARRYALL-SCRAPER OR SCOPP; CHICAGO BOOM; COMPACTOR WITH BLAD ATTACHED; CONCRETE SAW (VERMEER OR SIMILAR TYPE); CONCRETE SPREADER FINISHER; COMBINATION, BIDWELL MACHINE; CRANE; CRANE-ELECTRIC OVERHEAD; CRANE-ROUGH TERRAIN; CRANE-SIDE BOOM; CRANE-TRUCK; CRANE-TOWER; DERRICK-BOOM; DERRICK-CAR; DIGGER -WHEEL (NOT

TRENCHER OR ROAD WIDENER); DOUBLE NINE; DRAG LINE; DREDGE; DRILL-KENNY OR SIMILAR TYPE; EASY POUR MEDIAN BARRIER MACHINE (OR SIMILAR TYPE); ELECTROMATIC; FRANKIE PILE; GRADALL; GRADER; GURRY; SELF-PROPELLED; HEAVY EQUIPMENT ROBOTICS OPERATOR/MECHANIC; HOIST-MONORAIL; HOIST-STATIONARY & MOBILE TRACTOR; HOIST, 2 OR 3 DRUM; HORIZONTAL DIRECTIONAL DRILL OPERATOR; JACKALL; JUMBO MACHINE; KOCAL & KUHLMAN; LAND-SEAGOING VEHICLE; LOADER, ELEVATING; LOADER, FRONT END; LOADER, SKID STEER; LOCOMOTIVE; MECHANIC/WELDER; METRO CHIP HARVESTER WITH BOO; MUCKING MACHINE; PAVER-ASPHALT FINISHING MACHINE; PAVER-ROAD CONCRETE; PAVER-SLIP FORM (C.M.I. OR SIMILAR); PLACE CRETE MACHINE WITH BOOM; POST DRIVER (CARRIER MOUNTED); POWER DRIVEN HYDRAULIC PUMP & JACK (WHEN USED IN SLIP FORM OR LIFT SLAB CONSTRUCTION); PUMP CRETE MACHINE; REGULATOR-BALLAST; HYRAULIC POWER UNIT NOT ATTACHED TO RIG FOR PILE DRILLINGS; RIGS-DRILLING; ROTO MILL OR SIMILAR FULL LANE (8' WIDE & OVER); ROTO MILL OR SIMILAR TYPE (UNDER 8'); SHOVEL; SLIP FORM CURB MACHINE; SPEEDWING; SPIKEMASTER; STONECRUSHER; TIE PULLER & LOADER; TIE TAMPER; TRACTOR-DOUBLE BOOM; TRACTOR WITH ATTACHMENTS; TRUCK-BOOM; TRUCK-TIRE; TRENCH MACHINE; TUNNEL MACHINE (MARK 21 JAVA OR SIMILAR) & WHIRLEY (OR SIMILAR TYPE) (COLUMBIANA, MAHONING & TRUMBULL COUNTIES).....$ 44.30 24.30

POWER EQUIPMENT OPERATOR: ASBESTOS; HAZARDOUS/TOXIC WASTE PROJECTS GROUP 1 - A & B- RIG, PILE DRIVER OR CAISSON TYPE; & RIG, PILE HYDRAULIC UNIT ATTACHED. (COLUMBIANA, MAHONING & TRUMBULL COUNTIES).....$ 44.63 24.30

POWER EQUIPMENT OPERATOR: ALL OTHER WORK GROUP 5 - BRAKEPERSON; FIREPERSON; & OILER. (COLUMBIANA, MAHONING & TRUMBULL COUNTIES).....$ 25.94 24.30

POWER EQUIPMENT OPERATOR: ALL OTHER WORK GROUP 4 - AIR CURTAIN DESTRUCTOR & SIMILAR TYPE; BATCH PLANT-JOB RELATED; BOILER OPERATOR; COMPRESSOR; CONVEYOR; CURB BUILDER, SELF-PROPELLED; DRILL WAGON; GENERATOR SET; GENERATOR-STEAM; HEATER-PORTABLE POWER; HYDRAULIC MANIUPLATOR CRANE; JACK-HYDRAULIC POWER DRIVEN; JACK-HYARAULIC (RAILROAD); LADAVATOR; MINOR MACHINE OPERATOR; MIXER-CONCRETE; MULCHING MACHINE; PIN PULLER; POWER BROOM; PULVERIZER; PUMP; ROAD FINISHING MAHINC (PULL TYPE); SAW-CONCRETE-SELF-PROPELLED (HIGHWAY WORK); SIGNAL PERSON; SPRAY CURE MACHINE-MOTOR POWERED; STUMP CUTTER; TRACTOR; TRENCHER FORM; WATER BLASTER; STEAM JENNY; SYPHON; VIBRATOR-GASOLINE; & WELDING MACHINE. (COLUMBIANA, MAHONING & TRUMBULL COUNTIES).....$ 28.77 24.30

POWER EQUIPMENT OPERATOR: ALL OTHER WORK GROUP 3 - ASPHALT PLANT; BENDING MACHINE (PIPELINE OR TYPE); BORING MACHINE, MOTOR DRIVEN; CHIP HARVESTER WITHOUT BOOM; CLEANING MACHINE, PIPELINE TYPE; COATING MACHINE, PIPELINE TYPE; COMPACTOR; CONCRETE BELT PLACER; CONCRETE FINISHER; CONCRETE PLANER OR ASPHALT; CONCRETE SPREADER; ELEVATOR; FORK LIFT (HOME BUILDING ONLY); FORK LIFT & LULLS; FORK LIFT WALK BEHIND (HOISTING OVER 1 BUCK HIGH); FORM LINE MACHINE; GREASE TRUCK OPERATOR; GROUT PUMP; GUNNITE MACHINE; HORIZONTAL DIRECTIONAL DRILL LOCATOR; SINGLE DRUM HOIST WITH OR WITHOUT TOWER; HUCK BOLTING MACHINE; HYDRAULIC SCAFFOLD (HOISTING

BUILDING MATERIALS); PAVING BREAKER (SELF=PROPELLED OR RIDDEN); PIPE DREAM; POT FIREPERSON (POWER AGITATED); REFRIGERATION PLANT; ROAD WIDENER; ROLLER; SASGEN DERRICK; SEEDING MACHINE; SOIL STABILIZER (PUMP TYPE); SPRAY CURE MACHINE, SELF-PROPELLED; STRAW BLOWER MACHINE; SUB-GRADER; TUBE FINISHER OR BROOM C.M.I. OR SIMILAR TYPE; & TUGGER HOIST. (COLUMBIANA, MAHONING & TRUMBULL COUNTIES).....$ 32.06 24.30

POWER EQUIPMENT OPERATOR: ALL OTHER WORK GROUP 2 - ASPHALT HEATER PLANER; BACKFILLER WITH DRAG ATTACHMENT; BACKHOE; BACKHOE WITH SHEAR ATTACHED; BACKHOE-REAR PIVOTAL SWING; BATCH PLANT-CENTRAL MIX CONCRETE; BATCH PLANT, PORTABLE CONCRETE; BERM BUILDER-AUTOMATIC; BOAT DERRICK; BOAT-TUG; BORING MACHINE ATTACHED TO TRACTOR; BULLCLAM; VULLDOZER; C.M.I. ROAD BUILDER & SIMILAR TYPE; CABLE PLACER &LATYER; CARRIER-STRADDLE; CARRYALL-SCRAPER OR SCOPP; CHICAGO BOOM; COMPACTOR WITH BLAD ATTACHED; CONCRETE SAW (VERMEER OR SIMILAR TYPE); CONCRETE SPREADER FINISHER; COMBINATION, BIDWELL MACHINE; CRANE; CRANE-ELECTRIC OVERHEAD; CRANE-ROUGH TERRAIN; CRANE-SIDE BOOM; CRANE-TRUCK; CRANE-TOWER; DERRICK-BOOM; DERRICK-CAR; DIGGER -WHEEL (NOT TRENCHER OR ROAD WIDENER); DOUBLE NINE; DRAG LINE; DREDGE; DRILL-KENNY OR SIMILAR TYPE; EASY POUR MEDIAN BARRIER MACHINE (OR SIMILAR TYPE); ELECTROMATIC; FRANKIE PILE; GRADALL; GRADER; GURRY; SELF-PROPELLED; HEAVY EQUIPMENT ROBOTICS OPERATOR/MECHANIC; HOIST-MONORAIL; HOIST-STATIONARY & MOBILE TRACTOR; HOIST, 2 OR 3 DRUM; HORIZONTAL DIRECTIONAL DRILL OPERATOR; JACKALL; JUMBO MACHINE; KOCAL & KUHLMAN; LAND-SEAGOING VEHICLE; LOADER, ELEVATING; LOADER, FRONT END; LOADER, SKID STEER; LOCOMOTIVE; MECHANIC/WELDER; METRO CHIP HARVESTER WITH BOO; MUCKING MACHINE; PAVER-ASPHALT FINISHING MACHINE; PAVER-ROAD CONCRETE; PAVER-SLIP FORM (C.M.I. OR SIMILAR); PLACE CRETE MACHINE WITH BOOM; POST DRIVER (CARRIER MOUNTED); POWER DRIVEN HYDRAULIC PUMP & JACK (WHEN USED IN SLIP FORM OR LIFT SLAB CONSTRUCTION); PUMP CRETE MACHINE; REGULATOR-BALLAST; HYRAULIC POWER UNIT NOT ATTACHED TO RIG FOR PILE DRILLINGS; RIGS-DRILLING; ROTO MILL OR SIMILAR FULL LANE (8' WIDE & OVER); ROTO MILL OR SIMILAR TYPE (UNDER 8'); SHOVEL; SLIP FORM CURB MACHINE; SPEEDWING; SPIKEMASTER; STONECRUSHER; TIE PULLER & LOADER; TIE TAMPER; TRACTOR-DOUBLE BOOM; TRACTOR WITH ATTACHMENTS; TRUCK-BOOM; TRUCK-TIRE; TRENCH MACHINE; TUNNEL MACHINE (MARK 21 JAVA OR SIMILAR) & WHIRLEY (OR SIMILAR TYPE) (COLUMBIANA, MAHONING & TRUMBULL COUNTIES).....$ 36.92 24.30

POWER EQUIPMENT OPERATOR: ALL OTHER WORK GROUP 1- RIG, PILE DRIVER OR CAISSON TYPE; & RIG, PILE HYDRAULIC UNIT ATTACHED. (COLUMBIANA, MAHONING & TRUMBULL COUNTIES).....$ 37.19 24.30

IRON0017-002 05/01/2024

	Rates	Fringes

IRONWORKER: ORNAMENTAL, REINFORCING, & STRUCTURAL (ASHTABULA (NORTH OF ROUTE 6, STARTING AT THE GEAUGA COUNTY LINE, PROCEEDING EAST TO STATE ROUTE 45), CUYAHOGA, ERIE (EASTERN 2/3), GEAUGA, HURON (EAST OF A LINE DRAWN FROM THE NORTH BORDER THROUGH

MONROEVILLE & WILLARD), LAKE, LORAIN, MEDINA (NORTH
OF OLD RTE. #224), PORTAGE (WEST OF A LINE FROM
MIDDLEFIELD TO SHALERSVILLE TO DEERFIELD), AND
SUMMIT (NORTH OF OLD RTE. #224, INCLUDING CITY
LIMITS OF BARBERTON) COUNTIES).....$ 36.83 29.01

IRON0017-010 05/01/2024

	Rates	Fringes
IRONWORKER: STRUCTURAL, INCLUDING METAL BUILDING ERECTION & REINFORCING (ASHTABULA (EASTERN PART FROM LAKE ERIE ON THE NORTH TO ROUTE #322 ON THE SOUTH TO INCLUDE CONNEAUT, KINGSVILLE, SHEFFIELD, DENMARK, DORSET, CHERRY VALLEY, WAYNE, MONROE, PIERPONT, RICHMOND, ANDOVER & WILLIAMSFIELD TOWNSHIPS))	$ 36.83	29.01

IRON0044-001 06/01/2025

	Rates	Fringes
IRONWORKER, REINFORCING (ADAMS (WESTERN PART), BROWN, BUTLER (SOUTHERN PART), CLERMONT, CLINTON (SOUTH OF A LINE DRAWN FROM BLANCHESTER TO LYNCHBURG), HAMILTON, HIGHLAND (EXCLUDING EASTERN ONE-FIFTH & PORTION OF COUNTY INSIDE LINES DRAWN FROM MARSHALL TO LYNCHBURG FROM THE NORTHERN COUNTY LINE THROUGH E. MONROE TO MARSHALL) AND WARREN (SOUTH OF A LINE DRAWN FROM BLANCHESTER THROUGH MORROW TO THE WEST COUNTY LINE) COUNTIES)	$ 38.27	23.90

IRON0044-002 06/01/2025

	Rates	Fringes
IRONWORKER: ORNAMENTAL; STRUCTURAL (CLINTON (SOUTH OF A LINE DRAWN FROM BLANCHESTER TO LYNCHBURG), HAMILTON, HIGHLAND (EXCLUDING EASTERN ONE-FIFTH & PORTION OF COUNTY INSIDE LINES DRAWN FROM MARSHALL TO LYNCHBURG FROM THE NORTHERN COUNTY LINE THROUGH E. MONROE TO MARSHALL) & WARREN (SOUTH OF A LINE DRAWN FROM BLANCHESTER THROUGH MORROW TO THE WEST COUNTY LINE))	$ 37.77	23.90
IRONWORKER: FENCE ERECTOR (CLINTON (SOUTH OF A LINE DRAWN FROM BLANCHESTER TO LYNCHBURG), HAMILTON, HIGHLAND (EXCLUDING EASTERN ONE-FIFTH & PORTION OF COUNTY INSIDE LINES DRAWN FROM MARSHALL TO LYNCHBURG FROM THE NORTHERN COUNTY LINE THROUGH E. MONROE TO MARSHALL) & WARREN (SOUTH OF A LINE DRAWN FROM BLANCHESTER THROUGH MORROW TO THE WEST COUNTY LINE))	$ 35.88	23.90

IRON0055-003 07/01/2024

	Rates	Fringes
IRONWORKER: FENCE ERECTOR (CRAWFORD (AREA BETWEEN LINES DRAWN FROM WHERE HWY #598 & #30 MEET THROUGH N. LIBERTY TO THE NORTHERN BORDER & FROM SAID HWY JUNCTION POINT DUE WEST TO THE BORDER), DEFIANCE (S. OF A LINE DRAWN FROM WHERE RTE. #66 MEETS THE NORTHERN LINE THROUGH INDEPENDENCE TO THE EASTERN COUNTY BORDER), ERIE (WESTERN 1/3), FULTON, HANCOCK, HARDIN (NORTH OF A LINE DRAWN FROM MAYSVILLE TO A POINT 4 MILES SOUTH OF THE NORTHERN LINE ON THE EASTERN LINE), HENRY, HURON (WEST OF A	$ 29.77	21.30

IRONWORKER: ALL OTHER WORK (CRAWFORD (AREA BETWEEN LINES DRAWN FROM WHERE HWY #598 & #30 MEET THROUGH N. LIBERTY TO THE NORTHERN BORDER & FROM SAID HWY JUNCTION POINT DUE WEST TO THE BORDER), DEFIANCE (S. OF A LINE DRAWN FROM WHERE RTE. #66 MEETS THE NORTHERN LINE THROUGH INDEPENDENCE TO THE EASTERN COUNTY BORDER), ERIE (WESTERN 1/3), FULTON, HANCOCK, HARDIN (NORTH OF A LINE DRAWN FROM MAYSVILLE TO A POINT 4 MILES SOUTH OF THE NORTHERN LINE ON THE EASTERN LINE), HENRY, HURON (WEST OF A	$ 29.77	21.30
IRONWORKER: FLAT ROAD MESH (CRAWFORD (AREA BETWEEN LINES DRAWN FROM WHERE HWY #598 & #30 MEET THROUGH N. LIBERTY TO THE NORTHERN BORDER & FROM SAID HWY JUNCTION POINT DUE WEST TO THE BORDER), DEFIANCE (S. OF A LINE DRAWN FROM WHERE RTE. #66 MEETS THE NORTHERN LINE THROUGH INDEPENDENCE TO THE EASTERN COUNTY BORDER), ERIE (WESTERN 1/3), FULTON, HANCOCK, HARDIN (NORTH OF A LINE DRAWN FROM MAYSVILLE TO A POINT 4 MILES SOUTH OF THE NORTHERN LINE ON THE EASTERN LINE), HENRY, HURON (WEST OF A	$ 26.40	24.62
IRONWORKER: TUNNES & CAISSONS UNDER PRESSURE (CRAWFORD (AREA BETWEEN LINES DRAWN FROM WHERE HWY #598 & #30 MEET THROUGH N. LIBERTY TO THE NORTHERN BORDER & FROM SAID HWY JUNCTION POINT DUE WEST TO THE BORDER), DEFIANCE (S. OF A LINE DRAWN FROM WHERE RTE. #66 MEETS THE NORTHERN LINE THROUGH INDEPENDENCE TO THE EASTERN COUNTY BORDER), ERIE (WESTERN 1/3), FULTON, HANCOCK, HARDIN (NORTH OF A LINE DRAWN FROM MAYSVILLE TO A POINT 4 MILES SOUTH OF THE NORTHERN LINE ON THE EASTERN LINE), HENRY, HURON (WEST OF A	$ 35.50	29.20

IRON0147-002 06/01/2025

	Rates	Fringes
IRONWORKER (ALLEN (NORTHERN HALF), DEFIANCE (NORTHERN PART, EXCLUDING SOUTH OF A LINE DRAWN FROM WHERE RTE. #66 MEETS THE NORTHERN LINE THROUGH INDEPENDENCE TO THE EASTERN COUNTY BORDER), MERCER (NORTHERN HALF), PAULDING, PUTNAM (WESTERN PART, EXCLUDING EAST OF A LINE DRAWN FROM THE NORTHERN BORDER DOWN THROUGH MILLER CITY TO WHERE #696 MEETS THE SOUTHERN BORDER), VAN WERT, AND WILLIAMS (WESTERN PART, EXCLUDING EAST OF A LINE DRAWN FROM PIONEER THROUGH STRYKER TO THE SOUTHERN BORDER) COUNTIES)	$ 38.00	26.39

IRON0172-002 06/01/2025

	Rates	Fringes
IRONWORKER (CHAMPAIGN (EASTERN ONE-THIRD), CLARK (EASTERN ONE-FOURTH), COSHOCTON (WEST OF A LINE BEGINNING AT THE NORTHWESTERN COUNTY LINE GOING THROUGH WALHONDING & TUNNEL HILL TO THE SOUTHERN COUNTY LINE), CRAWFORD (SOUTH OF RTE. #30), DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HARDIN (EXCLUDING A LINE DRAWN FROM ROUNDHEAD TO MAYSVILLE), HIGHLAND (EASTERN ONE-FIFTH), HOCKING, JACKSON (NORTHERN HALF), KNOX, LICKING, LOGAN (EASTERN ONE-THIRD), MADISON, MARION, MORROW, MUSKINGUM (WEST OF A LINE	$ 40.87	23.15

IRON0207-004 06/01/2025

	Rates	Fringes
IRONWORKER: ORNAMENTAL; REINFORCING; STRUCTURAL (ASHTABULA (SOUTHERN PART STARTING AT THE GEAUGA COUNTY LINE), COLUMBIANA (E. OF A LINE FROM DAMASCUS TO HIGHLANDTOWN), MAHONING (N. OF OLD ROUTE #224), PORTAGE (E. OF A LINE FROM MIDDLEFIELD TO SHALERSVILLE TO DEERFIELD) & TRUMBULL)	$ 36.26	28.16
IRONWORKER: LAYOUT; SHEETER (ASHTABULA (SOUTHERN PART STARTING AT THE GEAUGA COUNTY LINE), COLUMBIANA (E. OF A LINE FROM DAMASCUS TO HIGHLANDTOWN), MAHONING (N. OF OLD ROUTE #224), PORTAGE (E. OF A LINE FROM MIDDLEFIELD TO SHALERSVILLE TO DEERFIELD) & TRUMBULL)	$ 37.26	28.16

IRON0290-002 06/01/2025

	Rates	Fringes
IRONWORKER (ALLEN (SOUTHERN HALF), AUGLAIZE, BUTLER (NORTH OF A LINE DRAWN FROM EAST TO THE WEST COUNTY LINE GOING THROUGH OXFORD, DARRTOWN & WOODSDALE), CHAMPAIGN (EXCLUDING EAST OF A LINE DRAWN FROM CATAWLA TO THE POINT WHERE #68 INTERSECTS THE NORTHERN COUNTY LINE), CLARK (WESTERN TWO-THIRDS), CLINTON (EXCLUDING SOUTH OF A LINE DRAWN FROM BLANCHESTER TO LYNCHBURG), DARKE, GREENE, HIGHLAND (INSIDE LINES DRAWN FROM MARSHALL TO LYNCHBURG & FROM THE NORTHERN COUNTY LINE THROUGH EA	$ 37.39	25.35

IRON0549-003 12/01/2022

	Rates	Fringes
IRONWORKER (BELMONT, GUERNSEY, HARRISON, JEFFERSON, MONROE & MUSKINGUM (EXCLUDING PORTION WEST OF A LINE STARTING AT ADAMS MILL GOING TO ADAMSVILLE AND GOING FROM ADAMSVILLE THROUGH BLUE ROCK TO THE SOUTH BORDER))	$ 35.19	25.66

IRON0550-004 05/01/2024

	Rates	Fringes
IRONWORKERS: STRUCTURAL, ORNAMENTAL AND REINFORCING (ASHLAND, CARROLL, COLUMBIANA (W. OF A LINE FROM DAMASCUS TO HIGHLANDTOWN), COSHOCTON (E. OF A LINE BEGINNING AT NW CO. LINE GOING THROUGH WALHONDING & TUNNEL HILL TO THE SOUTH CO. LINE), HOLMES, HURON (S. OF OLD RTE. #224), MAHONING (S. OF OLD RTE. #224), MEDINA (S. OF OLD RTE. #224), PORTAGE (S. OF OLD RTE. #224), RICHLAND, STARK, SUMMIT (S. OF OLD RTE. #224, EXCLUDING CITY LIMITS OF BARBERTON), TUSCARAWAS, & WAYNE)	$ 34.70	22.88

IRON0769-004 06/01/2025

	Rates	Fringes
IRONWORKER (ADAMS (EASTERN HALF), GALLIA, JACKSON (SOUTHERN HALF), LAWRENCE & SCIOTO)	$ 39.70	29.59

IRON0787-003 06/01/2025

	Rates	Fringes
IRONWORKER (ATHENS, MEIGS, MORGAN, NOBLE, AND		

WASHINGTON COUNTIES).....$ 36.10 24.65

LABO0265-008 05/01/2024

	Rates	Fringes
LABORER GROUP 4- MINER (WITH AIR-PRESSURIZED - $1.00 PREMIUM); & GUNITE NOZZLE PERSON. TUNNEL LABORER WITH AIR-PRESSURIZED ADD $1.00 TO BASE RATE SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING. (REMAINING COUNTIES OF OHIO) ..	$ 36.47	14.45
LABORER GROUP 4- MINER (WITH AIR-PRESSURIZED - $1.00 PREMIUM); & GUNITE NOZZLE PERSON. TUNNEL LABORER WITH AIR-PRESSURIZED ADD $1.00 TO BASE RATE SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING. (CUYAHOGA, GEAUGA & LAKE COUNTIES).....	$ 38.13	14.45
LABORER GROUP 4- MINER (WITH AIR-PRESSURIZED - $1.00 PREMIUM); & GUNITE NOZZLE PERSON. TUNNEL LABORER WITH AIR-PRESSURIZED ADD $1.00 TO BASE RATE SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING. (ASHTABULA, ERIE, HURON, LORAIN, LUCAS, MAHONING, MEDINA, OTTAWA, PORTAGE, SANDUSKY, STARK, SUMMIT, TRUMBULL & WOOD COUNTIES)..	$ 36.90	14.45
LABORER GROUP 3- BLASTER; MUCKER; POWDER PERSON; TOP LANDER; WRENCHER (MECHANICAL JOINTS & UTILITY PIPELINE); YARNER; HAZARDOUS WASTE (LEVEL A); CONCRETE SPECIALIST; CONCRETE CREW IN TUNNELS (WITH AIR-PRESSURIZED - $1.00 PREMIUM); CURB SETTER & CUTTER; GRADE CHECKER; UTILITY PIPELINE TAPPER; WATERLINE; AND CAULKER. TUNNEL LABORER WITH AIR-PRESSURIZED ADD $1.00 TO BASE RATE SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING. (REMAINING COUNTIES OF OHIO)	$ 36.02	14.45
LABORER GROUP 3- BLASTER; MUCKER; POWDER PERSON; TOP LANDER; WRENCHER (MECHANICAL JOINTS & UTILITY PIPELINE); YARNER; HAZARDOUS WASTE (LEVEL A); CONCRETE SPECIALIST; CONCRETE CREW IN TUNNELS (WITH AIR-PRESSURIZED - $1.00 PREMIUM); CURB SETTER & CUTTER; GRADE CHECKER; UTILITY PIPELINE TAPPER; WATERLINE; AND CAULKER. TUNNEL LABORER WITH AIR-PRESSURIZED ADD $1.00 TO BASE RATE SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING. (CUYAHOGA, GEAUGA & LAKE COUNTIES)	$ 37.68	14.45
LABORER GROUP 3- BLASTER; MUCKER; POWDER PERSON; TOP LANDER; WRENCHER (MECHANICAL JOINTS & UTILITY PIPELINE); YARNER; HAZARDOUS WASTE (LEVEL A); CONCRETE SPECIALIST; CONCRETE CREW IN TUNNELS (WITH AIR-PRESSURIZED - $1.00 PREMIUM); CURB SETTER & CUTTER; GRADE CHECKER; UTILITY PIPELINE TAPPER; WATERLINE; AND CAULKER. TUNNEL LABORER WITH AIR-PRESSURIZED ADD $1.00 TO BASE RATE SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING. (ASHTABULA, ERIE, HURON, LORAIN, LUCAS, MAHONING, MEDINA, OTTAWA, PORTAGE, SANDUSKY, STARK, SUMMIT, TRUMBULL & WOOD COUNTIES).....	$ 36.45	14.45
LABORER GROUP 2- ASPHALT RAKER; CONCRETE PUDDLER; KETTLE MAN PIPELINE); MACHINE DRIVEN TOOLS (GAS, ELECTRIC, AIR); MASON TENDER; BRICK PAVER; MORTAR		

MIXER; POWER BUGGY OR POWER WHEELBARROW; PAINT STRIPER; SHEETING & SHORING MAN; SURFACE GRINDER MAN; PLASTIC FUSING MACHINE OPERATOR; PUG MILL OPERATOR; & VACUUM DEVICES (WET OR DRY); RODDING MACHINE OPERATOR; DIVER; SCREWMAN OR PAVER; SCREED PERSON; WATER BLAST, HAND HELD WAND; PUMPS 4"" & UNDER (GAS, AIR OR ELECTRIC) & HAZARDOUS WASTE (LEVEL C); AIR TRACK AND WAGON DRILL; BOTTOM PERSON; COFFERDAM (BELOW 25 FT. DEEP); CONCRETE SAW PERSON; CUTTING WITH BURNING TORCH; FORM SETTER; HAND SPIKER (RAILROAD); PIPELAYER; TUNNEL LABORER (WITHOUT AIR) & CAISSON; UNDERGROUND PERSON (WORKING IN SEWER AND WATERLINE, CLEANING, REPAIRING & RECONDITIONING); SANDBLASTER NOZZLE PERSON; & HAZARDOUS WASTE (LEVEL B). TUNNEL LABORER WITH AIR-PRESSURIZED ADD $1.00 TO BASE RATE SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING. (REMAINING COUNTIES OF OHIO)..$ 35.69 14.45

LABORER GROUP 2- ASPHALT RAKER; CONCRETE PUDDLER; KETTLE MAN PIPELINE); MACHINE DRIVEN TOOLS (GAS, ELECTRIC, AIR); MASON TENDER; BRICK PAVER; MORTAR MIXER; POWER BUGGY OR POWER WHEELBARROW; PAINT STRIPER; SHEETING & SHORING MAN; SURFACE GRINDER MAN; PLASTIC FUSING MACHINE OPERATOR; PUG MILL OPERATOR; & VACUUM DEVICES (WET OR DRY); RODDING MACHINE OPERATOR; DIVER; SCREWMAN OR PAVER; SCREED PERSON; WATER BLAST, HAND HELD WAND; PUMPS 4"" & UNDER (GAS, AIR OR ELECTRIC) & HAZARDOUS WASTE (LEVEL C); AIR TRACK AND WAGON DRILL; BOTTOM PERSON; COFFERDAM (BELOW 25 FT. DEEP); CONCRETE SAW PERSON; CUTTING WITH BURNING TORCH; FORM SETTER; HAND SPIKER (RAILROAD); PIPELAYER; TUNNEL LABORER (WITHOUT AIR) & CAISSON; UNDERGROUND PERSON (WORKING IN SEWER AND WATERLINE, CLEANING, REPAIRING & RECONDITIONING); SANDBLASTER NOZZLE PERSON; & HAZARDOUS WASTE (LEVEL B). TUNNEL LABORER WITH AIR-PRESSURIZED ADD $1.00 TO BASE RATE SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING. (CUYAHOGA, GEAUGA & LAKE COUNTIES).....$ 37.35 14.45

LABORER GROUP 2- ASPHALT RAKER; CONCRETE PUDDLER; KETTLE MAN PIPELINE); MACHINE DRIVEN TOOLS (GAS, ELECTRIC, AIR); MASON TENDER; BRICK PAVER; MORTAR MIXER; POWER BUGGY OR POWER WHEELBARROW; PAINT STRIPER; SHEETING & SHORING MAN; SURFACE GRINDER MAN; PLASTIC FUSING MACHINE OPERATOR; PUG MILL OPERATOR; & VACUUM DEVICES (WET OR DRY); RODDING MACHINE OPERATOR; DIVER; SCREWMAN OR PAVER; SCREED PERSON; WATER BLAST, HAND HELD WAND; PUMPS 4"" & UNDER (GAS, AIR OR ELECTRIC) & HAZARDOUS WASTE (LEVEL C); AIR TRACK AND WAGON DRILL; BOTTOM PERSON; COFFERDAM (BELOW 25 FT. DEEP); CONCRETE SAW PERSON; CUTTING WITH BURNING TORCH; FORM SETTER; HAND SPIKER (RAILROAD); PIPELAYER; TUNNEL LABORER (WITHOUT AIR) & CAISSON; UNDERGROUND PERSON (WORKING IN SEWER AND WATERLINE, CLEANING, REPAIRING & RECONDITIONING); SANDBLASTER NOZZLE PERSON; & HAZARDOUS WASTE (LEVEL B). TUNNEL LABORER WITH AIR-PRESSURIZED ADD $1.00 TO BASE RATE SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING. (ASHTABULA, ERIE, HURON,

LORAIN, LUCAS, MAHONING, MEDINA, OTTAWA, PORTAGE, SANDUSKY, STARK, SUMMIT, TRUMBULL & WOOD COUNTIES)..$ 36.12 14.45
LABORER GROUP 1- ASPHALT LABORER; CARPENTER TENDER; CONCRETE CURING APPLICATOR; DUMP MAN (BATCH TRUCK); GUARDRAIL AND FENCE INSTALLER; JOINT SETTER; LABORER (CONSTRUCTION); LANDSCAPE LABORER; MESH HANDLERS & PLACER; RIGHT-OF-WAY LABORER; RIPRAP LABORER & GROUTER; SCAFFOLD ERECTOR; SEAL COATING; SURFACE TREATMENT OR ROAD MIX LABORER; SIGN INSTALLER; SLURRY SEAL; UTILITY MAN; BRIDGE MAN; HANDYMAN; WATERPROOFING LABORER; FLAGPERSON; HAZARDOUS WASTE (LEVEL D); DIVER TENDER; ZONE PERSON & TRAFFIC CONTROL. TUNNEL LABORER WITH AIR-PRESSURIZED ADD $1.00 TO BASE RATE SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING. (REMAINING COUNTIES OF OHIO).....$ 35.52 14.45
LABORER GROUP 1- ASPHALT LABORER; CARPENTER TENDER; CONCRETE CURING APPLICATOR; DUMP MAN (BATCH TRUCK); GUARDRAIL AND FENCE INSTALLER; JOINT SETTER; LABORER (CONSTRUCTION); LANDSCAPE LABORER; MESH HANDLERS & PLACER; RIGHT-OF-WAY LABORER; RIPRAP LABORER & GROUTER; SCAFFOLD ERECTOR; SEAL COATING; SURFACE TREATMENT OR ROAD MIX LABORER; SIGN INSTALLER; SLURRY SEAL; UTILITY MAN; BRIDGE MAN; HANDYMAN; WATERPROOFING LABORER; FLAGPERSON; HAZARDOUS WASTE (LEVEL D); DIVER TENDER; ZONE PERSON & TRAFFIC CONTROL. TUNNEL LABORER WITH AIR-PRESSURIZED ADD $1.00 TO BASE RATE SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING. (CUYAHOGA, GEAUGA & LAKE COUNTIES).....$ 37.18 14.45
LABORER GROUP 1- ASPHALT LABORER; CARPENTER TENDER; CONCRETE CURING APPLICATOR; DUMP MAN (BATCH TRUCK); GUARDRAIL AND FENCE INSTALLER; JOINT SETTER; LABORER (CONSTRUCTION); LANDSCAPE LABORER; MESH HANDLERS & PLACER; RIGHT-OF-WAY LABORER; RIPRAP LABORER & GROUTER; SCAFFOLD ERECTOR; SEAL COATING; SURFACE TREATMENT OR ROAD MIX LABORER; SIGN INSTALLER; SLURRY SEAL; UTILITY MAN; BRIDGE MAN; HANDYMAN; WATERPROOFING LABORER; FLAGPERSON; HAZARDOUS WASTE (LEVEL D); DIVER TENDER; ZONE PERSON & TRAFFIC CONTROL. TUNNEL LABORER WITH AIR-PRESSURIZED ADD $1.00 TO BASE RATE SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING. (ASHTABULA, ERIE, HURON, LORAIN, LUCAS, MAHONING, MEDINA, OTTAWA, PORTAGE, SANDUSKY, STARK, SUMMIT, TRUMBULL & WOOD COUNTIES).....$ 35.95 14.45
LABORER: SEWAGE PLANTS, WASTE PLANTS, WATER TREATMENT FACILITIES, PUMPING STATIONS, & ETHANOL PLANTS CONSTRUCTION. (CUYAHOGA AND GEAUGA COUNTIES ONLY).....$ 38.56 14.45

PAIN0006-002 05/01/2023

	Rates	Fringes
PAINTER COMMERCIAL REPAINT GROUP 3- SPRAY PAINTING..	$ 29.95	18.95
PAINTER COMMERCIAL REPAINT GROUP 2- SANDBLASTING & BUFFING (ASHTABULA, CUYAHOGA, GEAUGA, LAKE, LORAIN, PORTAGE (N. OF THE EAST-WEST TURNPIKE) & SUMMIT (N. OF THE EAST-WEST TURNPIKE)).....	$ 29.65	18.95
PAINTER COMMERCIAL REPAINT GROUP 1- BRUSH; & ROLLER (ASHTABULA, CUYAHOGA, GEAUGA, LAKE, LORAIN,		

PORTAGE (N. OF THE EAST-WEST TURNPIKE) & SUMMIT (N. OF THE EAST-WEST TURNPIKE))..... $ 29.25 18.95

PAINTER COMMERCIAL NEW WORK; REMODELING; & RENOVATIONS: GROUP 4- BRIDGE BLASTER (ASHTABULA, CUYAHOGA, GEAUGA, LAKE, LORAIN, PORTAGE (N. OF THE EAST-WEST TURNPIKE) & SUMMIT (N. OF THE EAST-WEST TURNPIKE)) ..... $ 37.01 18.95

PAINTER COMMERCIAL NEW WORK; REMODELING; & RENOVATIONS: GROUP 3- SPRAY PAINTING; CLOSED STEEL ABOVE 55 FEET; BRIDGES & OPEN STRUCTURAL STEEL; TANKS - WATER TOWERS; BRIDGE PAINTERS; BRIDGE RIGGERS; CONTAINMENT BUILDERS (ASHTABULA, CUYAHOGA, GEAUGA, LAKE, LORAIN, PORTAGE (N. OF THE EAST-WEST TURNPIKE) & SUMMIT (N. OF THE EAST-WEST TURNPIKE))..... $ 31.45 18.95

PAINTER COMMERCIAL NEW WORK; REMODELING; & RENOVATIONS: GROUP 2- SANDBLASTING & BUFFING (ASHTABULA, CUYAHOGA, GEAUGA, LAKE, LORAIN, PORTAGE (N. OF THE EAST-WEST TURNPIKE) & SUMMIT (N. OF THE EAST-WEST TURNPIKE))..... $ 31.15 18.95

PAINTER COMMERCIAL NEW WORK; REMODELING; & RENOVATIONS: GROUP 1- BRUSH; & ROLLER (ASHTABULA, CUYAHOGA, GEAUGA, LAKE, LORAIN, PORTAGE (N. OF THE EAST-WEST TURNPIKE) & SUMMIT (N. OF THE EAST-WEST TURNPIKE))..... $ 30.75 18.95

PAIN0007-002 07/01/2025

	Rates	Fringes
PAINTER: NEW COMMERCIAL WORK: GROUP 9- EPOXY SPRAY (EXCLUDING WATER BASED) (FULTON, HENRY, LUCAS, OTTAWA (EXCLUDING ALLEN, BAY, BONO, CATAWBA ISLAND, CLAY CENTER, CURTICE, DANBURY, EAGLE BEACH, ELLISTON, ELMORE, ERIE, FISHBACK, GEM BEACH & GENOVA) & WOOD) REPAINT IS 90% OF GROUP RATE.....	$ 34.66	23.88
PAINTER: NEW COMMERCIAL WORK: GROUP 8- TOWERS; TANKS; BRIDGES; STACKS OVER 30 FEET (FULTON, HENRY, LUCAS, OTTAWA (EXCLUDING ALLEN, BAY, BONO, CATAWBA ISLAND, CLAY CENTER, CURTICE, DANBURY, EAGLE BEACH, ELLISTON, ELMORE, ERIE, FISHBACK, GEM BEACH & GENOVA) & WOOD) REPAINT IS 90% OF GROUP RATE.....	$ 34.66	23.88
PAINTER: NEW COMMERCIAL WORK: GROUP 7- SPRAY SOLVENT BASED MATERIAL; SAND & ABRASIVE BLASTING (FULTON, HENRY, LUCAS, OTTAWA (EXCLUDING ALLEN, BAY, BONO, CATAWBA ISLAND, CLAY CENTER, CURTICE, DANBURY, EAGLE BEACH, ELLISTON, ELMORE, ERIE, FISHBACK, GEM BEACH & GENOVA) & WOOD) REPAINT IS 90% OF GROUP RATE.....	$ 34.66	23.88
PAINTER: NEW COMMERCIAL WORK: GROUP 6- SOLVENT-BASED CATALIZED EPOXY MATERIALS OF 2 OR MORE COMPONENT MATERIALS, TO INCLUDE SOLVENT-BASED CONVERSION VARNISH (EXCLUDING WATER BASED) (FULTON, HENRY, LUCAS, OTTAWA (EXCLUDING ALLEN, BAY, BONO, CATAWBA ISLAND, CLAY CENTER, CURTICE, DANBURY, EAGLE BEACH, ELLISTON, ELMORE, ERIE, FISHBACK, GEM BEACH & GENOVA) & WOOD) REPAINT IS 90% OF GROUP RATE.....	$ 34.66	23.88
PAINTER: NEW COMMERCIAL WORK: GROUP 5- ALL METHODS OF SPRAY (FULTON, HENRY, LUCAS, OTTAWA (EXCLUDING ALLEN, BAY, BONO, CATAWBA ISLAND, CLAY CENTER, CURTICE, DANBURY, EAGLE BEACH, ELLISTON, ELMORE, ERIE, FISHBACK, GEM BEACH & GENOVA) & WOOD) REPAINT IS 90% OF GROUP RATE.....	$ 34.66	23.88

PAINTER: NEW COMMERCIAL WORK: GROUP 4- LEAD ABATEMENT (FULTON, HENRY, LUCAS, OTTAWA (EXCLUDING ALLEN, BAY, BONO, CATAWBA ISLAND, CLAY CENTER, CURTICE, DANBURY, EAGLE BEACH, ELLISTON, ELMORE, ERIE, FISHBACK, GEM BEACH & GENOVA) & WOOD) REPAINT IS 90% OF GROUP RATE.....$ 34.66 23.88

PAINTER: NEW COMMERCIAL WORK: GROUP 3- SWING STAGE & CHAIR (FULTON, HENRY, LUCAS, OTTAWA (EXCLUDING ALLEN, BAY, BONO, CATAWBA ISLAND, CLAY CENTER, CURTICE, DANBURY, EAGLE BEACH, ELLISTON, ELMORE, ERIE, FISHBACK, GEM BEACH & GENOVA) & WOOD) REPAINT IS 90% OF GROUP RATE.....$ 34.66 23.88

PAINTER: NEW COMMERCIAL WORK: GROUP 2- REFINERIES & REFINERY TANKS; SURFACES 30 FT. OR OVER WHERE MATERIAL IS APPLIED TO OR LABOR PERFORMED ON ABOVE GROUND LEVEL (EXTERIOR), FLOOR LEVEL (INTERIOR) (FULTON, HENRY, LUCAS, OTTAWA (EXCLUDING ALLEN, BAY, BONO, CATAWBA ISLAND, CLAY CENTER, CURTICE, DANBURY, EAGLE BEACH, ELLISTON, ELMORE, ERIE, FISHBACK, GEM BEACH & GENOVA) & WOOD) REPAINT IS 90% OF GROUP RATE.....$ 34.66 23.88

PAINTER NEW COMMERCIAL WORK GROUP 1- BRUSH; SPRAY & SANDBLASTING POT TENDER. REPAINT IS 90% OF GROUP RATE.....$ 33.66 23.88

PAIN0012-008 05/01/2019

	Rates	Fringes
PAINTER: GROUP 5- ELEVATED TANKS; STEEPLEJACK WORK; BRIDGE; & LEAD ABATEMENT (BUTLER COUNTY)	$ 26.30	10.20
PAINTER: GROUP 4- SANDBLASTING; & WATERBLASTING (BUTLER COUNTY)	$ 26.05	10.20
PAINTER: GROUP 3- SPRAY (BUTLER COUNTY)	$ 25.80	10.20
PAINTER: GROUP 2- BRUSH & ROLLER (BUTLER COUNTY)	$ 25.30	10.20
PAINTER: GROUP 1- BRIDGE EQUIPMENT TENDER; BRIDGE/CONTAINMENT BUILDER (BUTLER COUNTY)	$ 21.95	10.20

PAIN0012-010 05/01/2019

	Rates	Fringes
PAINTER HEAVY & HIGHWAY BRIDGES- GUARDRAILS-LIGHTPOLES- STRIPING SPRAY (BROWN, CLERMONT, HAMILTON & WARREN)	$ 25.80	10.20
PAINTER HEAVY & HIGHWAY BRIDGES- GUARDRAILS-LIGHTPOLES- STRIPING SANDBLASTING & HOPPER TENDER; WATER BLASTING (BROWN, CLERMONT, HAMILTON & WARREN)	$ 26.05	10.20
PAINTER HEAVY & HIGHWAY BRIDGES- GUARDRAILS-LIGHTPOLES- STRIPING BRUSH & ROLLER (BROWN, CLERMONT, HAMILTON & WARREN)	$ 25.30	10.20
PAINTER HEAVY & HIGHWAY BRIDGES- GUARDRAILS-LIGHTPOLES- STRIPING BRIDGES WHEN HIGHEST POINT OF CLEARANCE IS 60 FEET OR MORE; & LEAD ABATEMENT PROJECTS (BROWN, CLERMONT, HAMILTON & WARREN)	$ 26.30	10.20
PAINTER HEAVY & HIGHWAY BRIDGES- GUARDRAILS-LIGHTPOLES- STRIPING BRIDGE EQUIPMENT TENDER AND CONTAINMENT BUILDER (BROWN, CLERMONT, HAMILTON & WARREN)	$ 21.95	10.20

PAIN0093-001 12/01/2024

	Rates	Fringes
PAINTER: POWER GENERATING FACILITIES (ATHENS,		

GUERNSEY, HOCKING, MONROE, MORGAN, NOBLE AND WASHINGTON COUNTIES)	$ 33.29	24.46
PAINTER: BRIDGES; LOCKS; DAMS; TENSION TOWERS; & ENERGIZED SUBSTATIONS (ATHENS, GUERNSEY, HOCKING, MONROE, MORGAN, NOBLE AND WASHINGTON COUNTIES)	$ 36.44	24.46

PAIN0249-002 05/01/2025

	Rates	Fringes
PAINTER: GROUP 8: BRIDGE BLASTER, RIGGER (CLARK, DARKE, GREENE, MIAMI, MONTGOMERY & PREBLE)	$ 40.86	13.97
PAINTER: GROUP 7: TANKS, STACKS & TOWERS (CLARK, DARKE, GREENE, MIAMI, MONTGOMERY & PREBLE)	$ 33.86	13.97
PAINTER: GROUP 6: BRIDGE EQUIPMENT TENDER & OR CONTAINMENT BUILDER (CLARK, DARKE, GREENE, MIAMI, MONTGOMERY & PREBLE)	$ 37.86	13.97
PAINTER: GROUP 5: COAL TAR (CLARK, DARKE, GREENE, MIAMI, MONTGOMERY & PREBLE)	$ 30.65	13.97
PAINTER: GROUP 4: STEEPLEJACK WORK (CLARK, DARKE, GREENE, MIAMI, MONTGOMERY & PREBLE)	$ 30.10	13.97
PAINTER: GROUP 3: SPRAY; SANDBLAST; STEAMCLEAN; LEAD ABATEMENT (CLARK, DARKE, GREENE, MIAMI, MONTGOMERY & PREBLE)	$ 29.90	13.97
PAINTER: GROUP 2: SWING, SCAFFOLD BRIDGES; STRUCTURAL STEEL; OPEN ACID TANK; HIGH TENSION ELECTRICAL EQUIPMENT; & HOT PIPES (CLARK, DARKE, GREENE, MIAMI, MONTGOMERY & PREBLE)	$ 33.09	13.97
PAINTER: GROUP 1: BRUSH & ROLLER (CLARK, DARKE, GREENE, MIAMI, MONTGOMERY & PREBLE)	$ 29.15	13.97

PAIN0356-002 09/01/2009

	Rates	Fringes
PAINTER: TANKS; STACKS; AND TOWERS (KNOX, LICKING, MUSKINGUM, AND PERRY)	$ 28.63	7.25
PAINTER: STRUCTURAL STEEL AND SWING STAGE (KNOX, LICKING, MUSKINGUM, AND PERRY)	$ 25.42	7.25
PAINTER: SPRAY (KNOX, LICKING, MUSKINGUM, AND PERRY)	$ 21.40	7.25
PAINTER: SANDBLASTING; STEAM CLEANING; WATERBLASTING; AND HAZARDOUS WORK (KNOX, LICKING, MUSKINGUM, AND PERRY)	$ 25.82	7.25
PAINTER: BRUSH AND ROLLER (KNOX, LICKING, MUSKINGUM, AND PERRY)	$ 20.93	7.25
PAINTER: BRIDGES; BLASTERS; AND RIGGERS (KNOX, LICKING, MUSKINGUM, AND PERRY)	$ 34.60	7.25
PAINTER: BRIDGE EQUIPMENT TENDERS AND CONTAINMENT BUILDERS (KNOX, LICKING, MUSKINGUM, AND PERRY)	$ 27.93	7.25

PAIN0438-002 12/01/2023

	Rates	Fringes
PAINTER: POWER GENERATING FACILITIES (BELMONT, HARRISON AND JEFFERSON COUNTIES)	$ 32.94	19.49
PAINTER: BRIDGES, LOCKS, DAMS, TENSION TOWERS & ENERGIZED SUBSTATIONS (BELMONT, HARRISON AND JEFFERSON COUNTIES)	$ 36.09	19.49

PAIN0476-001 06/01/2025

	Rates	Fringes
PAINTER: GROUP 7- TOWERS; STACKS (COLUMBIANA, MAHONING, AND TRUMBULL COUNITES)	$ 32.64	18.36
PAINTER: GROUP 6- TANKS; SANDBLASTING (COLUMBIANA,		

MAHONING, AND TRUMBULL COUNITES).....$ 35.27 18.36
PAINTER: GROUP 5- EPOXY/MASTIC; SPRAY- BAR
JOIST/DECK; WORKING ABOVE 50 FEET; AND SWINGSTAGES
(COLUMBIANA, MAHONING, AND TRUMBULL COUNITES).....$ 31.29 18.36
PAINTER: GROUP 4- SPRAY, EXCEPT BAR JOIST/DECK
(COLUMBIANA, MAHONING, AND TRUMBULL COUNITES).....$ 31.14 18.36
PAINTER: GROUP 3- STRUCTURAL STEEL (COLUMBIANA,
MAHONING, AND TRUMBULL COUNITES).....$ 40.27 18.36
PAINTER: GROUP 2- BRIDGES (COLUMBIANA, MAHONING,
AND TRUMBULL COUNITES).....$ 40.27 18.36
PAINTER: GROUP 1- PAINTERS, BRUSH & ROLLER
(COLUMBIANA, MAHONING, AND TRUMBULL COUNITES).....$ 30.64 18.36

PAIN0555-002 01/01/2025

	Rates	Fringes
PAINTER: GROUP 4- STACKS; BRIDGES (ADAMS, HIGHLAND, JACKSON, PIKE & SCIOTO)	$ 40.03	21.54
PAINTER: GROUP 3- SAND BLASTING; SPRAY; STEAM CLEANING; PRESSURE WASHING; EPOXY & TWO COMPONENT MATERIALS; LEAD ABATEMENT; HAZARDOUS WASTE; TOXIC MATERIALS; BULK & STORAGE TANKS OF 25,000 GALLON CAPACITY OR MORE; ELEVATED TANKS (ADAMS, HIGHLAND, JACKSON, PIKE & SCIOTO)	$ 36.72	21.54
PAINTER: GROUP 2- BRUSH; ROLLER; POWER TOOLS, UNDER 40 FEET (ADAMS, HIGHLAND, JACKSON, PIKE & SCIOTO)	$ 35.02	21.54
PAINTER: GROUP 1- CONTAINMENT BUILDER (ADAMS, HIGHLAND, JACKSON, PIKE & SCIOTO)	$ 33.32	21.54

PAIN0639-001 05/01/2011

	Rates	Fringes
SIGN PAINTER & ERECTOR FOOTNOTES: A. 7 PAID HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; JULY 4TH; LABOR DAY; THANKSGIVING DAY; CHRISTMAS DAY & 1 FLOATING DAY B. VACATION PAY: AFTER 1 YEAR'S SERVICE - 5 DAYS' PAID VACATION; AFTER 2, BUT LESS THAN 10 YEARS' SERVICE - 10 DAYS' PAID VACATION; AFTER 10, BUT LESS THAN 20 YEARS' SERVICE - 15 DAYS' PAID VACATION; AFTER 20 YEARS' SERVICE - 20 DAYS' PAID VACATION C. FUNERAL LEAVE UP TO 3 DAYS MAXIMUM PAID LEAVE FOR DEATH OF MOTHER, FATHER, BROTHER, SISTER, SPOUSE, CHILD, MOTHER-IN-LAW, FATHER-IN-LAW, GRANDPARENT AND INLAW PROVIDED EMPLOYEE ATTENDS FUNERAL	$ 20.61	3.50

PAIN0788-002 06/01/2024

	Rates	Fringes
PAINTER: STRUCTURAL STEEL (ASHLAND, CRAWFORD, ERIE, HANCOCK, HURON, MARION, MORROW, OTTAWA (ALLEN, BAY, BONO, CATAWBA ISLAND, CLAY CENTER, CURTICE, DANBURY, EAGLE BEACH, ELLISTON, ELMORE, ERIE, FISHBACK, GEM BEACH & GENOA), RICHLAND, SANDUSKY, SENECA & WYANDOT) WINTER REPAINT: BETWEEN DECEMBER 1 TO MARCH 31 - 90%JR $.50 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK: WHILE WORKING SWINGSTAGE, BOATSWAIN CHAIR, NEEDLE BEAM AND HORIZONTAL CABLE. WHILE OPERATING SPRAYGUNS, SANDBLASTING, COBBLASTING AND HIGH PRESSURE WATERBLASTING (4000PSI). $1.00 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK: FOR THE APPLICATION OF CATALIZED		

EPOXY, INCLUDING LATEX EPOXY THAT IS DEEMED HAZARDOUS, LEAD ABATEMENT, OR FOR WORK OR MATERIAL WHERE SPECIAL PRECAUTIONS BEYOND NORMAL WORK DUTIES MUST BE TAKEN. FOR WORKING ON STACKS, TANKS, AND TOWERS OVER 40 FEET IN HEIGHT.....$ 30.73 17.52

PAINTER: BRUSH & ROLLER (ASHLAND, CRAWFORD, ERIE, HANCOCK, HURON, MARION, MORROW, OTTAWA (ALLEN, BAY, BONO, CATAWBA ISLAND, CLAY CENTER, CURTICE, DANBURY, EAGLE BEACH, ELLISTON, ELMORE, ERIE, FISHBACK, GEM BEACH & GENOA), RICHLAND, SANDUSKY, SENECA & WYANDOT) WINTER REPAINT: BETWEEN DECEMBER 1 TO MARCH 31 - 90%JR $.50 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK: WHILE WORKING SWINGSTAGE, BOATSWAIN CHAIR, NEEDLE BEAM AND HORIZONTAL CABLE. WHILE OPERATING SPRAYGUNS, SANDBLASTING, COBBLASTING AND HIGH PRESSURE WATERBLASTING (4000PSI). $1.00 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK: FOR THE APPLICATION OF CATALIZED EPOXY, INCLUDING LATEX EPOXY THAT IS DEEMED HAZARDOUS, LEAD ABATEMENT, OR FOR WORK OR MATERIAL WHERE SPECIAL PRECAUTIONS BEYOND NORMAL WORK DUTIES MUST BE TAKEN. FOR WORKING ON STACKS, TANKS, AND TOWERS OVER 40 FEET IN HEIGHT.....$ 29.13 17.52

PAIN0813-005 12/01/2008

	Rates	Fringes
PAINTER: BRIDGES, LOCKS, DAMS & TENSION TOWERS (GALLIA, LAWRENCE, MEIGS & VINTON)	$ 27.83	10.00
PAINTER: BASE RATE (GALLIA, LAWRENCE, MEIGS & VINTON)	$ 24.83	10.00

PAIN0841-001 07/01/2025

	Rates	Fringes
PAINTERS: GROUP 7- SYNTHETIC EXTERIOR, DRYWALL FINISHER AND/OR TAPER, DRYWALL FINISHER AND FOLLOW-UP MAN USING AUTOMATIC TOOLS (MEDINA, PORTAGE (SOUTH OF AND INCLUDING OHIO TURNPIKE), AND SUMMIT (SOUTH OF AND INCLUDING OHIO TURNPIKE) COUNTIES)	$ 33.18	18.15
PAINTERS: GROUP 6- PUBLIC & COMMERCE TRANSPORTATION, STEEL OR GALVANIZED, BRIDGES, TUNNELS & RELATED SUPPORT ITEMS (CONCRETE) (MEDINA, PORTAGE (SOUTH OF AND INCLUDING OHIO TURNPIKE), AND SUMMIT (SOUTH OF AND INCLUDING OHIO TURNPIKE) COUNTIES)	$ 38.60	18.15
PAINTERS: GROUP 5- SANDBLAST, PAINTING OF STANDPIPES, ETC. FROM SCAFFOLDS, BRIDGE WORK AND/OR OPEN STRUCTURAL STEEL, STANDPIPES AND/OR WATER TOWERS (MEDINA, PORTAGE (SOUTH OF AND INCLUDING OHIO TURNPIKE), AND SUMMIT (SOUTH OF AND INCLUDING OHIO TURNPIKE) COUNTIES)	$ 33.18	18.15
PAINTERS: GROUP 4- SPRAY GUN OPERATOR OF ANY & ALL COATINGS (MEDINA, PORTAGE (SOUTH OF AND INCLUDING OHIO TURNPIKE), AND SUMMIT (SOUTH OF AND INCLUDING OHIO TURNPIKE) COUNTIES)	$ 32.78	18.15
PAINTERS: GROUP 3- SWING SCAFFOLD, BOSUM CHAIR, & WINDOW JACK (MEDINA, PORTAGE (SOUTH OF AND INCLUDING OHIO TURNPIKE), AND SUMMIT (SOUTH OF AND INCLUDING OHIO TURNPIKE) COUNTIES)	$ 32.68	18.15
PAINTERS: GROUP 2- EPOXY APPLICATION (MEDINA,		

PORTAGE (SOUTH OF AND INCLUDING OHIO TURNPIKE), AND SUMMIT (SOUTH OF AND INCLUDING OHIO TURNPIKE) COUNTIES).....$ 32.58 18.15

PAINTERS: GROUP 1- BRUSH, ROLLER & PAPERHANGER (MEDINA, PORTAGE (SOUTH OF AND INCLUDING OHIO TURNPIKE), AND SUMMIT (SOUTH OF AND INCLUDING OHIO TURNPIKE) COUNTIES).....$ 31.93 18.15

PAIN0841-002 07/01/2025

	Rates	Fringes
PAINTER: SPRAY; TANK INTERIOR & EXTERIOR (CARROLL, COSHOCTON, HOLMES, STARK, TUSCARAWAS & WAYNE).....	$ 32.78	18.15
PAINTER: BRUSH & ROLLER (CARROLL, COSHOCTON, HOLMES, STARK, TUSCARAWAS & WAYNE).....	$ 31.93	18.15
PAINTER: BRIDGES; TOWERS, POLES & STACKS; SANDBLASTING STEEL; STRUCTURAL STEEL & METALIZING (CARROLL, COSHOCTON, HOLMES, STARK, TUSCARAWAS & WAYNE).....	$ 33.18	18.15

PAIN1020-002 07/01/2025

	Rates	Fringes
PAINTER: WALLCOVERINGS (ALLEN, AUGLAIZE, CHAMPAIGN, DEFIANCE, HARDIN, LOGAN, MERCER, PAULDING, PUTNAM, SHELBY, VAN WERT, AND WILLIAMS COUNTIES) ALL SURFACES 40 FT. OR OVER WHERE MATERIAL IS APPLIED TO OR LABOR PERFORMED ON, ABOVE GROUND LEVEL (EXTERIOR), FLOOR LEVEL (INTERIOR) - $.50 PREMIUM APPLYING COAL TAR PRODUCTS - $1.00 PREMIUM.....	$ 28.34	18.54
PAINTER: SWING STAGE, CHAIR, SPIDERS, & CHERRY PICKERS (ALLEN, AUGLAIZE, CHAMPAIGN, DEFIANCE, HARDIN, LOGAN, MERCER, PAULDING, PUTNAM, SHELBY, VAN WERT, AND WILLIAMS COUNTIES) ALL SURFACES 40 FT. OR OVER WHERE MATERIAL IS APPLIED TO OR LABOR PERFORMED ON, ABOVE GROUND LEVEL (EXTERIOR), FLOOR LEVEL (INTERIOR) - $.50 PREMIUM APPLYING COAL TAR PRODUCTS - $1.00 PREMIUM.....	$ 27.84	18.54
PAINTER: SPRAY, SANDBLASTING PRESSURE CLEANING, & REFINERY (ALLEN, AUGLAIZE, CHAMPAIGN, DEFIANCE, HARDIN, LOGAN, MERCER, PAULDING, PUTNAM, SHELBY, VAN WERT, AND WILLIAMS COUNTIES) ALL SURFACES 40 FT. OR OVER WHERE MATERIAL IS APPLIED TO OR LABOR PERFORMED ON, ABOVE GROUND LEVEL (EXTERIOR), FLOOR LEVEL (INTERIOR) - $.50 PREMIUM APPLYING COAL TAR PRODUCTS - $1.00 PREMIUM.....	$ 28.34	18.54
PAINTER: LEAD ABATEMENT (ALLEN, AUGLAIZE, CHAMPAIGN, DEFIANCE, HARDIN, LOGAN, MERCER, PAULDING, PUTNAM, SHELBY, VAN WERT, AND WILLIAMS COUNTIES) ALL SURFACES 40 FT. OR OVER WHERE MATERIAL IS APPLIED TO OR LABOR PERFORMED ON, ABOVE GROUND LEVEL (EXTERIOR), FLOOR LEVEL (INTERIOR) - $.50 PREMIUM APPLYING COAL TAR PRODUCTS - $1.00 PREMIUM.....	$ 29.34	18.54
PAINTER: DRYWALL FINISHING & TAPING (ALLEN, AUGLAIZE, CHAMPAIGN, DEFIANCE, HARDIN, LOGAN, MERCER, PAULDING, PUTNAM, SHELBY, VAN WERT, AND WILLIAMS COUNTIES): LL SURFACES 40 FT. OR OVER WHERE MATERIAL IS APPLIED TO OR LABOR PERFORMED ON, ABOVE GROUND LEVEL (EXTERIOR), FLOOR LEVEL (INTERIOR) - $.50 PREMIUM APPLYING COAL TAR PRODUCTS - $1.00 PREMIUM.....	$ 28.34	18.54
PAINTER: BRUSH & ROLLER (ALLEN, AUGLAIZE, CHAMPAIGN, DEFIANCE, HARDIN, LOGAN, MERCER,		

PAULDING, PUTNAM, SHELBY, VAN WERT, AND WILLIAMS COUNTIES) ALL SURFACES 40 FT. OR OVER WHERE MATERIAL IS APPLIED TO OR LABOR PERFORMED ON, ABOVE GROUND LEVEL (EXTERIOR), FLOOR LEVEL (INTERIOR) - $.50 PREMIUM APPLYING COAL TAR PRODUCTS - $1.00 PREMIUM.....$ 27.59 18.54

PAIN1275-002 05/01/2025

	Rates	Fringes
PAINTER: STRUCTURAL STEEL & SWING STAGE (DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, MADISON, PICKAWAY, ROSS & UNION)	$ 30.50	15.16
PAINTER: STACKS; TANKS; & TOWERS (DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, MADISON, PICKAWAY, ROSS & UNION)	$ 34.46	15.16
PAINTER: SPRAY (DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, MADISON, PICKAWAY, ROSS & UNION)	$ 32.15	15.16
PAINTER: SANDBLASTING; STEAMCLEANING; WATERBLASTING (3500 PSI OR OVER)& HAZARDOUS WORK (DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, MADISON, PICKAWAY, ROSS & UNION)	$ 32.35	15.16
PAINTER: BRUSH; ROLLER (DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, MADISON, PICKAWAY, ROSS & UNION)	$ 30.20	15.16
PAINTER: BRIDGES (DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, MADISON, PICKAWAY, ROSS & UNION)	$ 37.26	15.16

PLAS0109-001 06/01/2025

	Rates	Fringes
PLASTERER (MEDINA, PORTAGE, STARK, AND SUMMIT COUNTIES)	$ 33.00	23.83

PLAS0109-003 06/01/2025

	Rates	Fringes
PLASTERER (CARROLL, HOLMES, TUSCARAWAS, AND WAYNE COUNTIES)	$ 33.00	23.83

PLAS0132-002 07/01/2025

	Rates	Fringes
PLASTERER (BROWN, BUTLER, CLERMONT, HAMILTON, HIGHLAND, WARREN COUNTIES)	$ 31.35	17.65

PLAS0404-002 05/01/2018

	Rates	Fringes
PLASTERER (ASHTABULA, CUYAHOGA, GEAUGA, AND LAKE COUNTIES)	$ 29.63	17.11

PLAS0404-003 05/01/2018

	Rates	Fringes
PLASTERER (LORAIN COUNTY)	$ 28.86	17.11

PLAS0526-022 05/01/2018

	Rates	Fringes
PLASTERER (COLUMBIANA, MAHONING, AND TRUMBULL COUNTIES)	$ 28.86	17.11

PLAS0526-023 05/01/2018

	Rates	Fringes
PLASTERER (BELMONT, HARRISON, AND JEFFERSON COUNTIES)	$ 28.21	17.11

PLAS0886-001 07/01/2025

	Rates	Fringes
PLASTERER (FULTON, HANCOCK, HENRY, LUCAS, PUTNAM, AND WOOD COUNTIES)	$ 36.65	25.60

PLAS0886-003 07/01/2025

	Rates	Fringes
PLASTERER (DEFIANCE, ERIE, HURON, OTTAWA, PAULDING, SANDUSKY, AND SENECA)	$ 36.65	25.60

PLAS0886-004 07/01/2025

	Rates	Fringes
PLASTERER (ALLEN, AUGLAIZE, HARDIN, LOGAN, MERCER, AND VAN WERT)	$ 35.29	23.07

PLUM0042-002 07/01/2025

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER (ASHLAND, CRAWFORD, ERIE, HURON, KNOX, LORAIN, MORROW, RICHLAND & WYANDOT)	$ 43.02	26.45

PLUM0050-002 06/30/2025

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER (DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA, PAULDING, PUTNAM, SANDUSKY, SENECA, WILLIAMS & WOOD)	$ 51.00	32.56

PLUM0055-003 05/05/2025

	Rates	Fringes
PLUMBER (ASHTABULA, CUYAHOGA, GEAUGA, LAKE, MEDINA (N. OF RTE. #18 & SMITH ROAD) & SUMMIT (N. OF RTE. #303, INCLUDING THE CORPORATE LIMITS OF THE CITY OF HUDSON))	$ 44.86	30.03

PLUM0083-001 07/01/2023

	Rates	Fringes
PLUMBER AND STEAMFITTER (BELMONT & MONROE (NORTH OF RTE. #78))	$ 35.94	37.35

PLUM0094-002 05/01/2025

	Rates	Fringes
PLUMBER/PIPEFITTER (CARROLL (NORTHEN HALF), STARK, AND WAYNE COUNTIES)	$ 47.48	27.14

PLUM0120-002 05/01/2025

	Rates	Fringes
PIPEFITTER (ASHTABULA, CUYAHOGA, GEAUGA, LAKE, LORAIN (THE C.E.I. POWER HOUSE IN AVON LAKE), MEDINA (N. OF RTE. #18) & SUMMIT (N. OF #303))	$ 49.17	28.55

PLUM0162-002 06/01/2024

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER (CHAMPAIGN, CLARK, CLINTON, DARKE, FAYETTE, GREENE, MIAMI, MONTGOMERY & PREBLE)	$ 43.05	27.18

PLUM0168-002 06/01/2025

	Rates	Fringes
PLUMBER/PIPEFITTER (MEIGS, MONROE (SOUTH OF RTE. #78), MORGAN (SOUTH OF RTE. #78) & WASHINGTON)	$ 40.92	37.20

PLUM0189-002 06/01/2025

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER (DELAWARE, FAIRFIELD, FRANKLIN, HOCKING, LICKING, MADISON, MARION, PERRY, PICKAWAY, ROSS & UNION)	$ 53.00	27.59

PLUM0219-002 06/01/2025

	Rates	Fringes
PLUMBER AND STEAMFITTER (MEDINA (RTE. #18 FROM EASTERN EDGE OF MEDINA CO., WEST TO EASTERN CORPORATE LIMITS OF THE CITY OF MEDINA, & ON THE COUNTY ROAD FROM THE WEST CORPORATE LIMITS OF MEDINA RUNNING DUE WEST TO AND THROUGH COMMUNITY OF RISLEY TO THE WESTERN EDGE OF MEDINA COUNTY - ALL TERRITORY SOUTH OF THIS LINE), PORTAGE, AND SUMMIT (S. OF RTE. #303) COUNTIES)	$ 46.87	28.39

PLUM0392-002 06/01/2025

	Rates	Fringes
PLUMBER/PIPEFITTER (BROWN, BUTLER, CLERMONT, HAMILTON & WARREN)	$ 43.30	27.40

PLUM0396-001 06/01/2025

	Rates	Fringes
PLUMBER/PIPEFITTER (COLUMBIANA (EXCLUDING WASHINGTON & YELLOW CREEK TOWNSHIPS & LIVERPOOL TWP. - SECS. 35 & 36 - WEST OF COUNTY ROAD #427), MAHONING AND TRUMBULL COUNTIES)	$ 40.55	29.25

PLUM0495-002 06/01/2025

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER (CARROLL (ROSE, MONROE, UNION, LEE, ORANGE, PERRY & LOUDON TOWNSHIPS), COLUMBIANA (WASHINGTON & YELLOW CREEK TOWNSHIPS & LIVERPOOL TOWNSHIP, SECS. 35 & 36, WEST OF COUNTY RD. #427), COSHOCTON, GUERNSEY, HARRISON, HOLMES, JEFFERSON, MORGAN (SOUTH TO STATE RTE. #78 & FROM MCCONNELSVILLE WEST ON STATE RTE. #37 TO THE PERRY COUNTY LINE), MUSKINGUM, NOBLE, AND TUSCARAWAS COUNTIES)	$ 39.32	37.60

PLUM0577-002 06/01/2025

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER (ADAMS, ATHENS, GALLIA, HIGHLAND, JACKSON, LAWRENCE, PIKE, SCIOTO &		

VINTON)	$ 42.65	28.56

PLUM0776-002 07/01/2025

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER (ALLEN, AUGLAIZE, HARDIN, LOGAN, MERCER, SHELBY AND VAN WERT COUNTIES)	$ 42.76	30.81

TEAM0377-003 05/01/2025

	Rates	Fringes
TRUCK DRIVER: GROUP 2- TRACTOR-TRAILER COMBINATION: FUEL; POLE TRAILER; READY MIX; SEMI-TRACTOR; & ASPHALT OIL SPRAYBAR MAN WHEN OPERATED FROM CAB; 5 AXLES & OVER; BELLY DUMP; END DUMP; ARTICULATED DUMP; HEAVY DUTY EQUIPMENT; LOW BOY; & TRUCK MECHANIC (STATEWIDE, EXCEPT CUYAHOGA, GEAUGA & LAKE)	$ 35.26	18.85
TRUCK DRIVER: GROUP 1- ASPHALT DISTRIBUTOR; BATCH; 4- WHEEL SERVICE; 4-WHEEL DUMP; OIL DISTRIBUTOR & TANDEM (STATEWIDE, EXCEPT CUYAHOGA, GEAUGA & LAKE)	$ 34.26	18.85

TEAM0436-002 05/01/2025

	Rates	Fringes
TRUCK DRIVER: GROUP 2- SEMI FUEL, SEMI TRACTOR, EUCLIDS, DARTS, TANK, ASPHALT SPREADERS, LOW BOYS, CARRY-ALL, TOURNA-ROCKERS, HI-LIFTS, EXTRA LONG TRAILERS, SEMI-POLE TRAILERS, DOUBLE HOOK-UP TRACTOR TRAILERS INCLUDING TEAM TRACK & RAILROAD SIDING, SEMI-TRACTOR & TRI-AXLE TRAILER, TANDEM TRACTOR & TANDEM TRAILER, TAG ALONG TRAILER, EXPANDABLE TRAILER OR TOWING REQUIRING ROAD PERMITS, READY-MIX (AGITATOR OR NON-AGITATOR), BULK CONCRETE DRIVER, DRY BATCH TRUCK, ARTICULATED END DUMP (CUYAHOGA, GEAUGA & LAKE)	$ 35.73	19.30
TRUCK DRIVER: GROUP 1- STRAIGHT & DUMP, STRAIGHT FUEL (CUYAHOGA, GEAUGA & LAKE)	$ 34.92	19.30

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least $13.65 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract from May 11, 2026, through December 31, 2026. The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than SU, UAVG, SA, or SC denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The SU identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

SU wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The SA identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the SA identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

a) a survey underlying a wage determination
b) an existing published wage determination
c) an initial WHD letter setting forth a position on a wage determination matter
d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.

Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

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END OF GENERAL DECISION"

SCOPE OF WORK

Quantity Sheet

Lorain 13F Project

Lorain County, Grafton Township

Well Names: SCHAEFFER CHARLES A 1, SEARS RUSSELL F 1, WISE CW 6, WISE GEO 1

APIs: 34093208500000, 34093602770000, 34093201880000, 34093201420000

Line	Item	Description	Unit	Type	Cost	Qty	Estimate Total
		Phase 1: Mobilization and Access					
1	1100	Mobilization	Each	Material		4.00	
2	1110	Demobilization	Each	Material		4.00	
3	1140	Clearing & Grubbing (Schaeffer #1)	Each	Material		1.00	
4	1140	Clearing & Grubbing (Sears #1)	Each	Material		1.00	
5	1150	Filter Fabric	Sq. Yd.	Material		291.00	
6	1160	Silt Fence	Linear Ft.	Material		250.00	
7	1230	No. 4 Stone	Ton	Material		181.00	
8	1250	No. 57 Stone	Ton	Material		36.00	
9	1410	12" PE/PVC Culvert	Linear Ft.	Material		150.00	
10	1510	Road Mats (Composite)	Sq. Ft.	Material		66416.00	
11	1510	Road Mats (Composite Half Mat)	Sq. Ft.	Material		1500.00	
12	1570	Timber Mats	Sq. Ft.	Material		36352.00	
13	1570	Timber Mats (Half Mat)	Sq. Ft.	Material		128.00	
14	1620	Airbridge w/Abutments	Each	Material		1.00	
		Phase 2: Well Site Safety					
15	2100	Site Safety	Each	Material		4.00	
16	2130	Secondary Containment	Each	Material		4.00	
17	2160	Well Head Control	Each	Material		4.00	
18	2171	Well Kill Fluid	BBL	Material		1025.00	
		Phase 3: Plugging					
19	3100	Well Prep & Plugging (Wise #6)	Each	Material		1.00	
20	3100	Well Prep & Plugging (Schaeffer #1)	Each	Material		1.00	
21	3100	Well Prep & Plugging (Sears #1)	Each	Material		1.00	
22	3100	Well Prep & Plugging (Wise #1)	Each	Material		1.00	
23	3240	Logging (GR/CCL/Bond/Caliper)	Each	Material		4.00	
24	3290	Severing	Each	Material		1.00	
25	3310	Tubing	Each	Material		1.00	
26	3340	Approved Cement (Sack)	Each	Material		1814.00	
27	3350	Cement Mixing & Pumping	Each	Material		17.00	
28	3520	Working String (7")	Linear Ft.	Material		485.00	
29	3520	Surface Casing (8.63")	Linear Ft.	Material		485.00	
		Phase 4: Site Clean-up and Restoration					
30	4100	Site Restoration (Wise #6)	Each	Material		1.00	
31	4100	Site Restoration (Schaeffer #1)	Each	Material		1.00	
32	4100	Site Restoration (Sears #1)	Each	Material		1.00	
33	4100	Site Restoration (Wise #1)	Each	Material		1.00	
34	4160	Approved Resoil	Ton	Material		20.00	
35	4420	Contaminated Material Disposal	Ton	Material		7.00	
36	4440	Salvage Material Disposal	Each	Material		1.00	
37	4460	Fluid Disposal	BBL	Material		1225.00	
38	4520	Gas Line Abandonment	Each	Material		1.00	
		Fixed Costs					
39	0800	Salvage Material Reimbursement	Each	Material	$1.00	0.00	$0.00
40	0810	Crop Damage (Corn)	Acre	Material	$866.00	1.01	$874.66
41	0820	Crop Damage (Soybean)	Acre	Material	$629.00	1.01	$635.29
42	0900	Tree Replacement	Each	Material	$1.00	3500.00	$3,500.00
43	0930	Professional Services (Mud Engineer)	Each	Labor	$1.00	10000.00	$10,000.00
		Contingency					
44	1540	Road Mats (Composite Mat/Day)	Each	Material		500.00	
45	1540	Timber Mats (Mat/Day)	Each	Material		250.00	
46	2181	Additional Circulation Fluid (Freshwater)	BBL	Material		415.00	
47	2191	Additional Circulation Fluid (Brine)	BBL	Material		725.00	
48	2220	Well Casing Tap	Each	Material		1.00	
49	2230	Conductor Casing (10.75")	Linear Ft.	Material		25.00	
50	2240	Surface Casing (10.0")	Linear Ft.	Material		25.00	
51	2360	Downhole Videography	Each	Material		1.00	
52	3140	Fishing	Hour	Material		36.00	
53	3160	Milling/Drillout	Hour	Material		48.00	
54	3170	Magnet	Each	Material		3.00	
55	3240	Logging (GR/CCL/Temp/Bond/Caliper)	Each	Material		4.00	
56	3250	Shooting	Each	Material		4.00	
57	3300	Cutting	Each	Material		3.00	
58	3380	Nine Sack Grout	Cubic Yd.	Material		3.00	
59	3390	Grout Pumping	Each	Material		1.00	
60	3400	Siphon Pipe (EA -Lump Sum)	Each	Material		1.00	
61	3450	Lost Circulation Materials (Sack)	Each	Material		100.00	
62	3460	Drilling Mud (Sack)	Each	Material		25.00	
63	3470	Saltwater Drilling Mud (Sack)	Each	Material		75.00	
64	4240	Formed Concrete	Cubic Yd.	Material		5.00	
65	4320	Vault	Each	Material		1.00	
66	4330	Vent Pipe	Linear Ft.	Material		1.00	
67	4340	Vent Pipe Support	Each	Material		1.00	

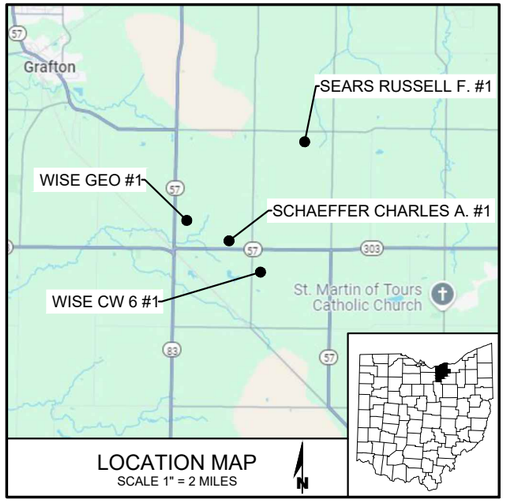
Note: This quantity sheet is provided for reference only. The Contractor's Offer must be submitted online through OhioBuys (https://procure.ohio.gov/bidders-and-suppliers). Quantities are only an estimate. Payment shall be based on quantities satisfactorily completed.

Each contractor is responsible for logging into OhioBuys and submitting an offer that is responsive to all amendments issued. All offers submitted prior to an amendment being issued shall become null/void and not considered in the opening. All amendments shall become part of the Scope of Work.

Offers must be fully submitted online through OhioBuys (https://procure.ohio.gov/bidders-and-suppliers).

SHEET INDEX

TITLE SHEET	1
SITE PLAN - WISE CW 6 #1	2
SITE PLAN - SCHAEFFER CHARLES A #1	3-5
SITE PLAN - SEARS RUSSELL F #1	6-7
SITE PLAN - WISE GEO #1	8
DETAILS	9-11



LOCATION MAP
SCALE 1" = 2 MILES

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS RESOURCES MANAGEMENT

LORAIN #13F PROJECT
PLUGGING SOW PLAN SET

CONTACT INFORMATION

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS RESOURCES MANAGEMENT
2207 REISER AVE. SE
NEW PHILADELPHIA, OHIO 44663
PH: (330) 308-0007 FAX: (330) 308-0011

OHIO Utilities Protection SERVICE
1-800-362-2764
CALL TWO WORKING DAYS BEFORE YOU DIG
(NON MEMBERS MUST BE CALLED DIRECTLY)
Call Before You Dig

OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (www.ogpups.com)
1-800-925-0988

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN APPROXIMATELY, BASED EITHER ON REPORTING BY RESPECTIVE OWNERS AND/OR BY FIELD LOCATION. HOWEVER, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ALL DAMAGES THAT MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL MAINTAIN A CURRENT 10 DAY OUPS TICKET DURING THE ENTIRE PROJECT BY CONTACTING OUPS EVERY 10 DAYS.

ORPHAN WELL INFORMATION

WELL NAME	API NUMBER	COUNTY	MUNICIPALITY	LATITUDE	LONGITUDE
WISE CW 6 #1	34-093-2-0188	LORAIN	GRAFTON	41.233476°	-82.001774°
SCHAEFFER CHARLES A #1	34-093-2-0850	LORAIN	GRAFTON	41.239406°	-82.007490°
SEARS RUSSELL F #1	34-093-6-0277	LORAIN	GRAFTON	41.256357°	-81.990071°
WISE GEO #1	34-093-2-0142	LORAIN	GRAFTON	42.242656°	-82.020478°

LEGEND

EXISTING:

- VEGITATION BED
- DRIVEWAY
- OVERHEAD ELECTRIC (OHP)
- PROPERTY LINE (EX. P/L)
- EDGE OF PAVEMENT
- BUSH LINE
- RIGHT OF WAY (Ex R/W)
- BUILDING
- GAS (G)
- WATER (W)
- TELEPHONE (T)
- ELECTRIC (E)
- CONTOUR MAJOR
- CONTOUR MINOR
- STORM SEWER
- CONCRETE
- TREE LINE
- LANDSCAPING
- RIGHT OF WAY CENTER LINE
- WOVEN WIRE FENCE (X)

PROPOSED:

- CONSTRUCTION WORK LIMITS (CWL)
- SILT FENCE (SF)
- STORM SEWER (STM)
- TREE TO BE REMOVED
- DRIVE WITH STONE OVERLAY

EXISTING:

- GAS WELL
- TELEPHONE PEDESTAL (TP)
- ELECTRIC PEDESTAL (EP)
- GAS VENT (V)
- TREE / BUSH
- TELE POLE W/ GUY
- I.P.F. IRON PIN FOUND
- I.P.S IRON PIN SET
- P.F. PIN FOUND
- TREE STUMP

PROPOSED:

- COMPOSITE MATTING
- TIMBER MATTING

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IDLE & ORPHAN WELL PROGRAM
http://oilandgas.ohiodnr.gov

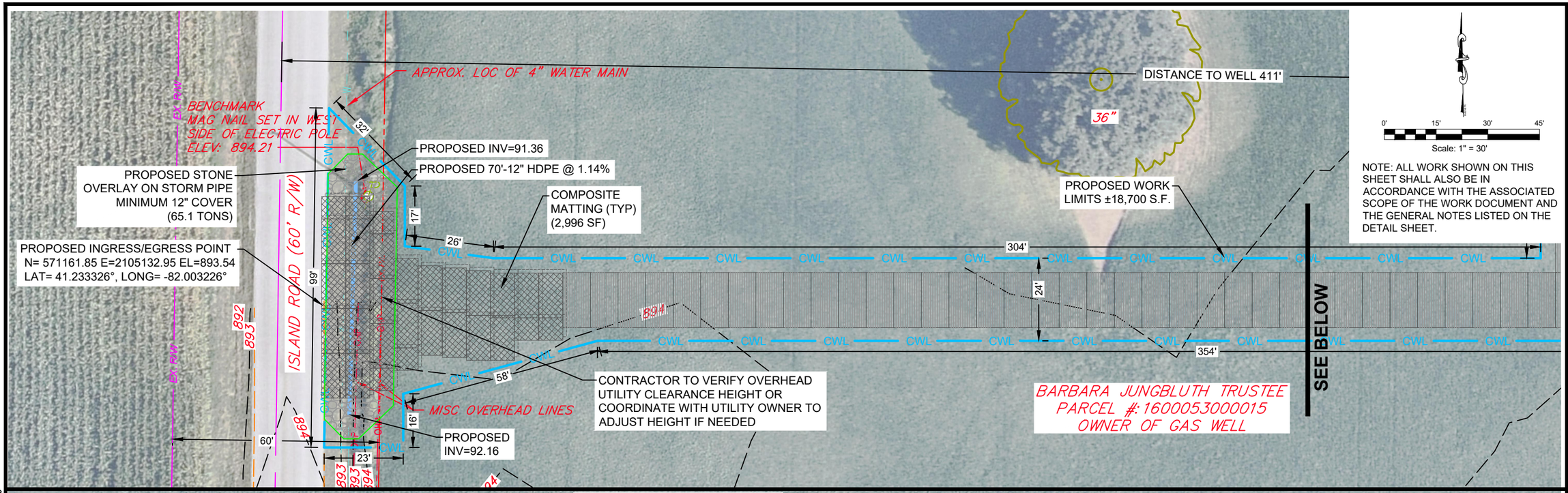
TITLE SHEET

LORAIN #13F PROJECT
PLUGGING SOW PLAN SET

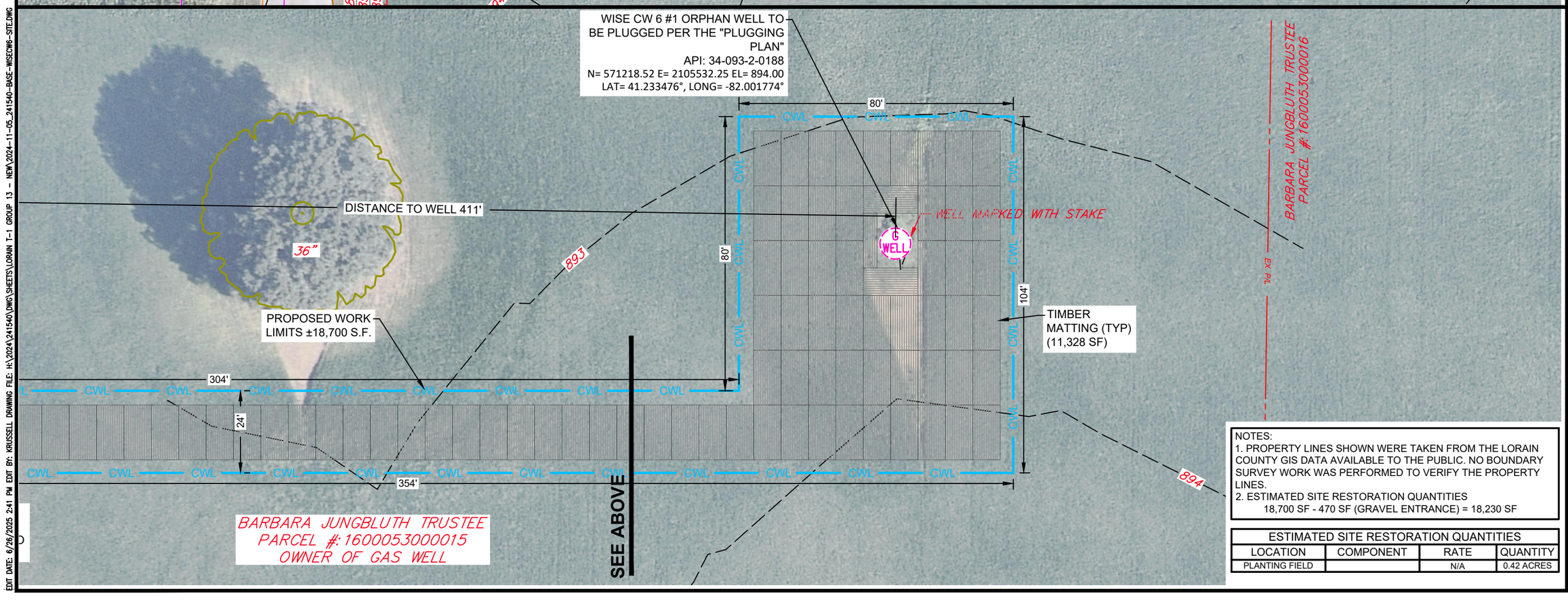
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DESIGN UNIT: CT CONSULTANTS
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1 OF 11

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NOTE: ALL WORK SHOWN ON THIS SHEET SHALL ALSO BE IN ACCORDANCE WITH THE ASSOCIATED SCOPE OF THE WORK DOCUMENT AND THE GENERAL NOTES LISTED ON THE DETAIL SHEET.



NOTES:
1. PROPERTY LINES SHOWN WERE TAKEN FROM THE LORAIN COUNTY GIS DATA AVAILABLE TO THE PUBLIC. NO BOUNDARY SURVEY WORK WAS PERFORMED TO VERIFY THE PROPERTY LINES.
2. ESTIMATED SITE RESTORATION QUANTITIES
18,700 SF - 470 SF (GRAVEL ENTRANCE) = 18,230 SF

ESTIMATED SITE RESTORATION QUANTITIES			
LOCATION	COMPONENT	RATE	QUANTITY
PLANTING FIELD		N/A	0.42 ACRES

DIVISION OF OIL & GAS
RESOURCES MANAGEMENT
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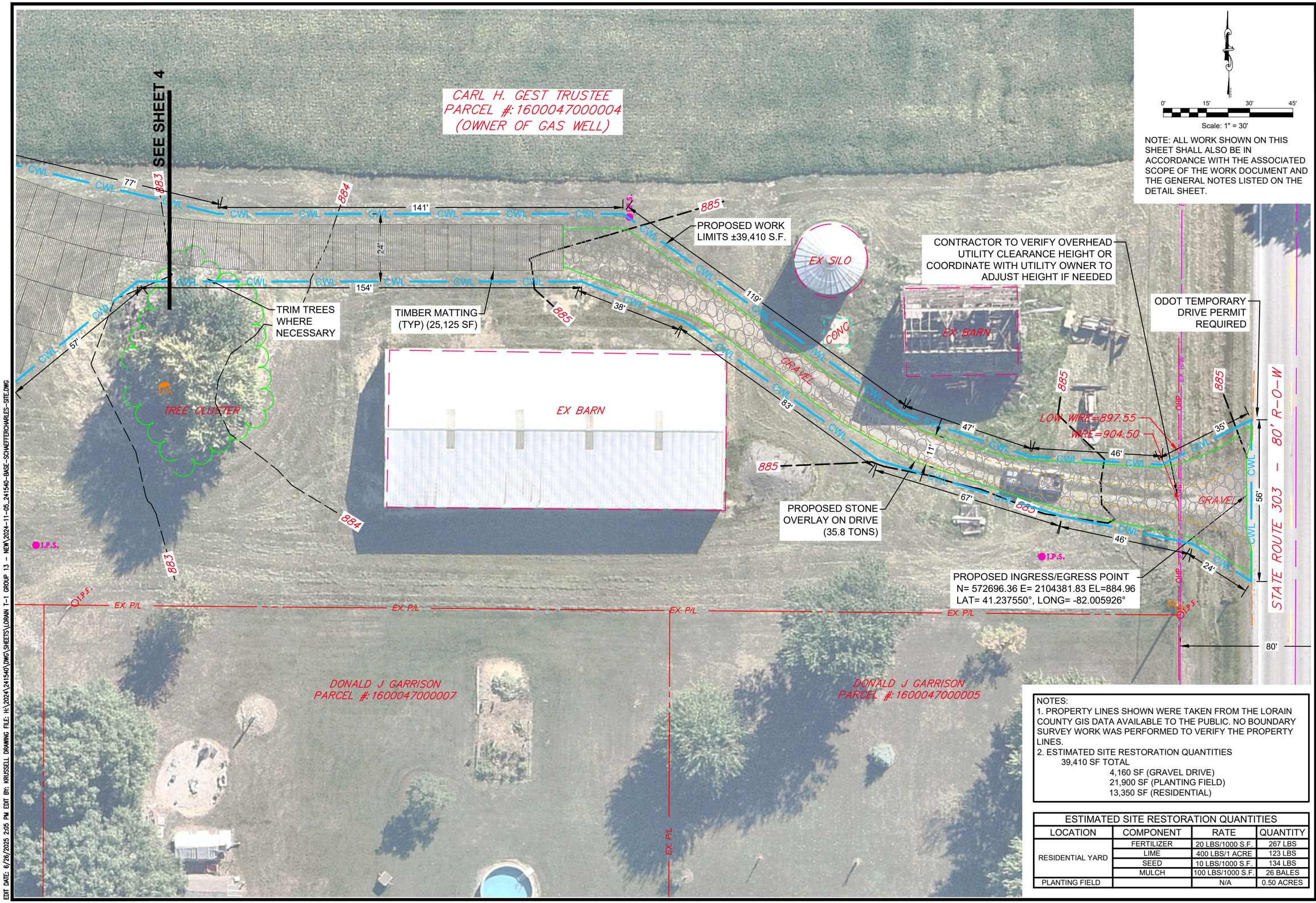
WISE CW 6 #1 SITE PLAN

LORAIN #13F PROJECT PLUGGING SOW PLAN SET

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2 OF 11

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NOTES:
1. PROPERTY LINES SHOWN WERE TAKEN FROM THE LORAIN COUNTY GIS DATA AVAILABLE TO THE PUBLIC. NO BOUNDARY SURVEY WORK WAS PERFORMED TO VERIFY THE PROPERTY LINES.
2. ESTIMATED SITE RESTORATION QUANTITIES
   39,410 SF TOTAL
   4,160 SF (GRAVEL DRIVE)
   21,900 SF (PLANTING FIELD)
   13,350 SF (RESIDENTIAL)

ESTIMATED SITE RESTORATION QUANTITIES

LOCATION	COMPONENT	RATE	QUANTITY
RESIDENTIAL YARD	FERTILIZER	20 LBS/1000 S.F.	267 LBS
	LIME	400 LBS/1 ACRE	123 LBS
	SEED	10 LBS/1000 S.F.	134 LBS
	MULCH	100 LBS/1000 S.F.	26 BALES
PLANTING FIELD		N/A	0.50 ACRES

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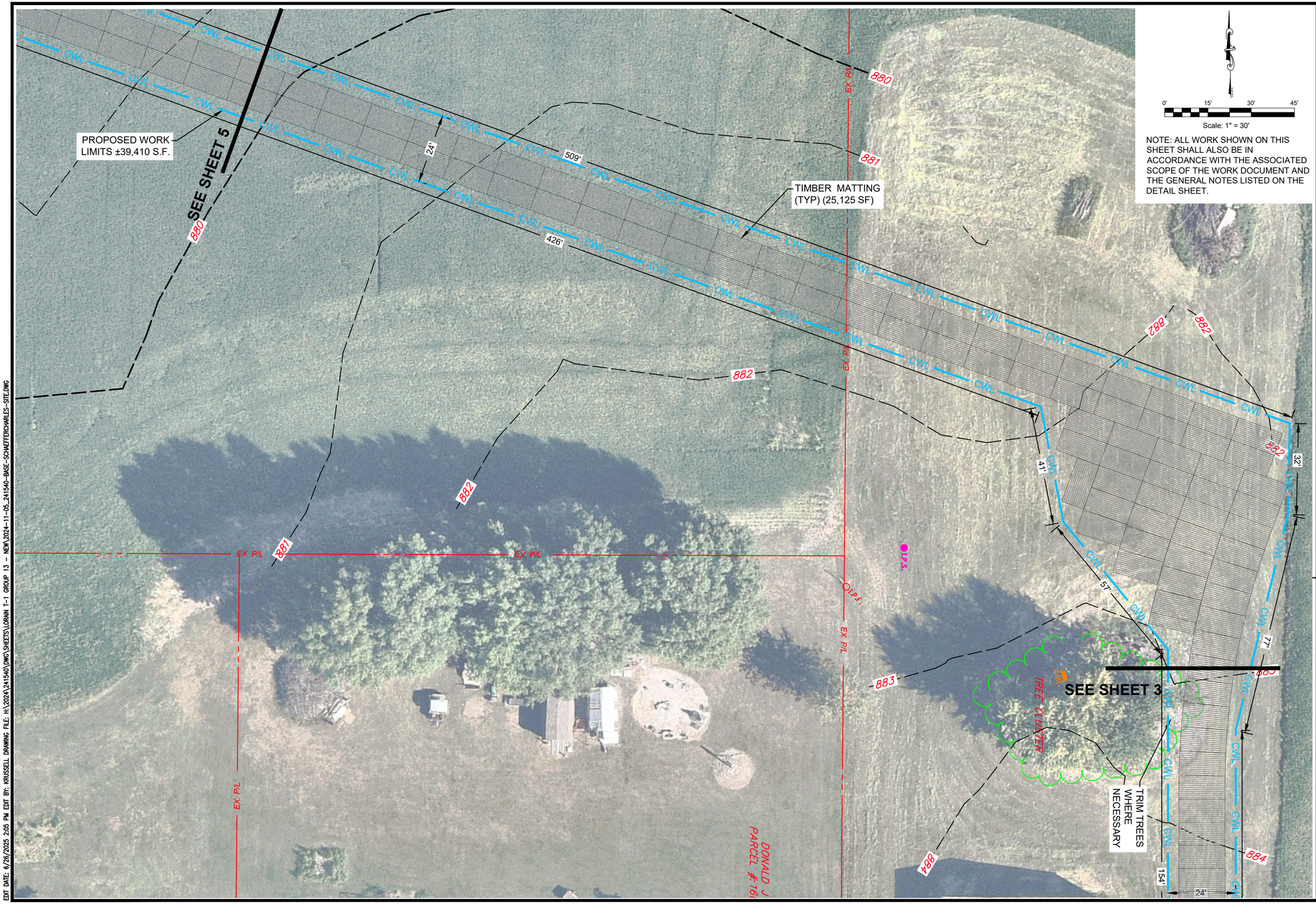
SCHAEFFER CHARLES A. #1
SITE PLAN

LORAIN #13F PROJECT
PLUGGING SOW PLAN SET

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0' 15' 30' 45'

Scale: 1" = 30'

NOTE: ALL WORK SHOWN ON THIS SHEET SHALL ALSO BE IN ACCORDANCE WITH THE ASSOCIATED SCOPE OF THE WORK DOCUMENT AND THE GENERAL NOTES LISTED ON THE DETAIL SHEET.

DIVISION OF OIL & GAS
RESOURCES MANAGEMENT
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SCHAEFFER CHARLES A. #1
SITE PLAN

LORAIN #13F PROJECT
PLUGGING SOW PLAN SET

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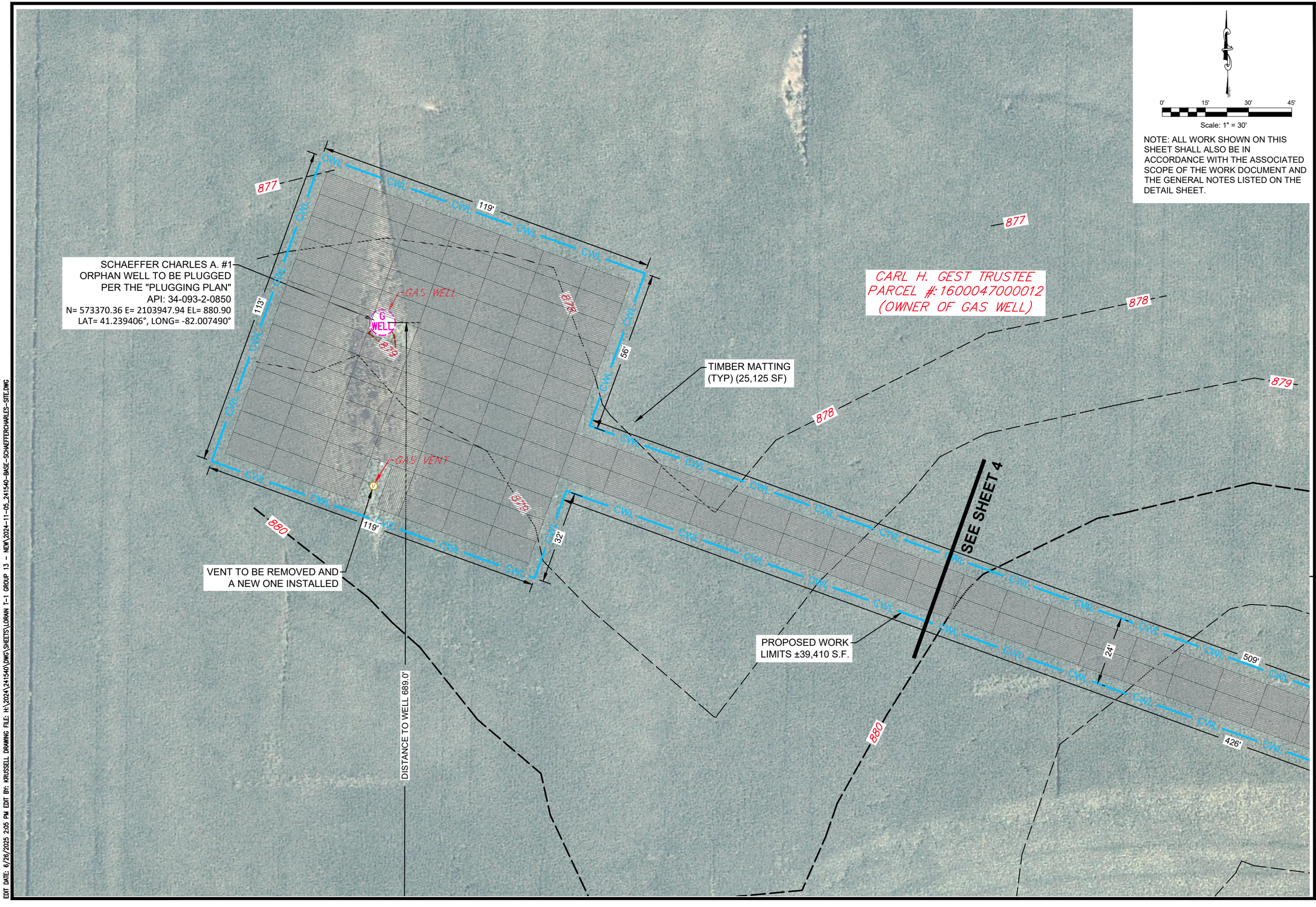
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4 OF 11

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DIVISION OF OIL & GAS
RESOURCES MANAGEMENT
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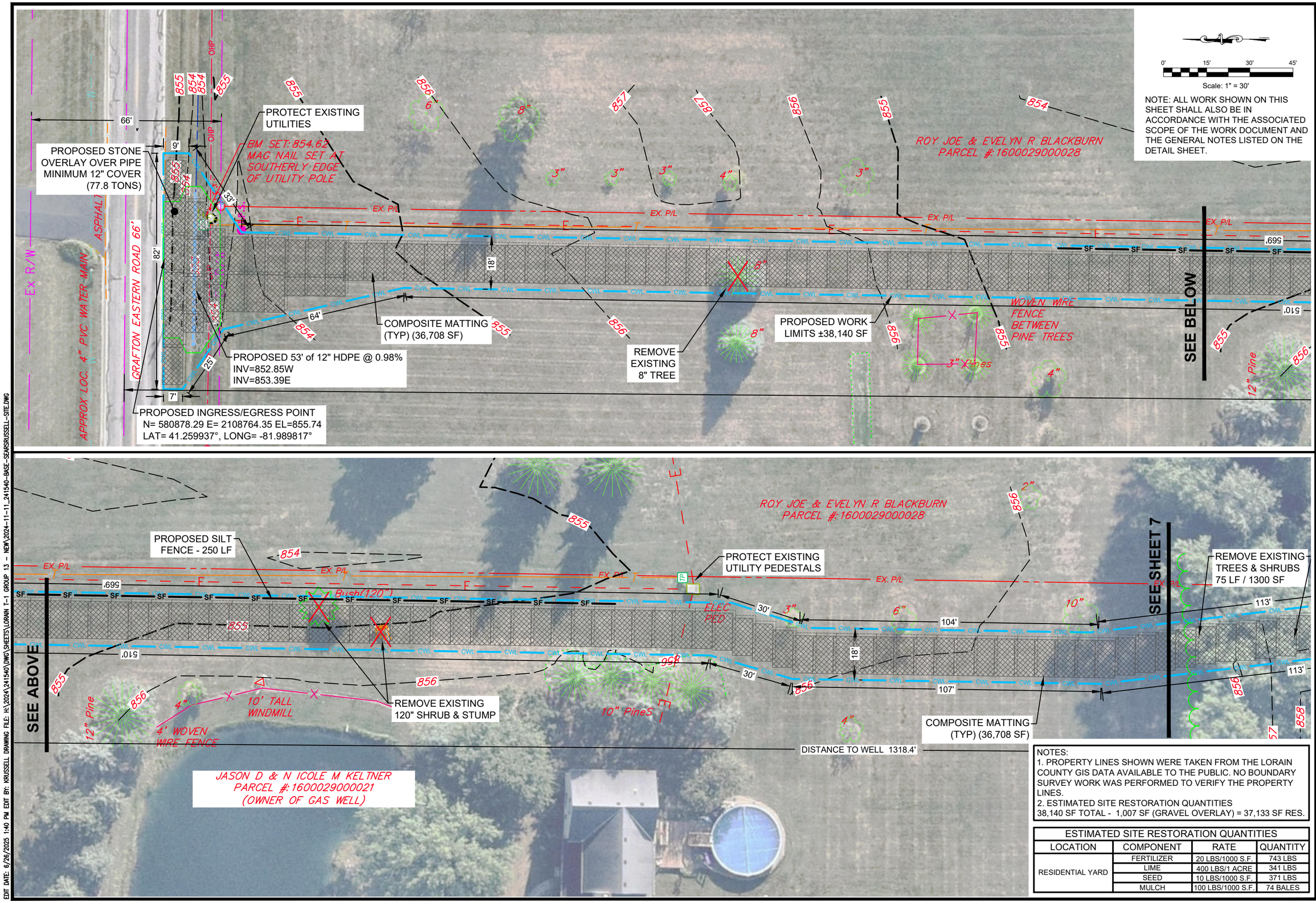
SCHAEFFER CHARLES A. #1
SITE PLAN

LORAIN #13F PROJECT
PLUGGING SOW PLAN SET

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NOTES:
1. PROPERTY LINES SHOWN WERE TAKEN FROM THE LORAIN COUNTY GIS DATA AVAILABLE TO THE PUBLIC. NO BOUNDARY SURVEY WORK WAS PERFORMED TO VERIFY THE PROPERTY LINES.
2. ESTIMATED SITE RESTORATION QUANTITIES
38,140 SF TOTAL - 1,007 SF (GRAVEL OVERLAY) = 37,133 SF RES.

ESTIMATED SITE RESTORATION QUANTITIES

LOCATION	COMPONENT	RATE	QUANTITY
RESIDENTIAL YARD	FERTILIZER	20 LBS/1000 S.F.	743 LBS
	LIME	400 LBS/1 ACRE	341 LBS
	SEED	10 LBS/1000 S.F.	371 LBS
	MULCH	100 LBS/1000 S.F.	74 BALES

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SEARS RUSSELL F. #1
SITE PLAN

LORAIN #13F PROJECT
PLUGGING SOW PLAN SET

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6 OF 11

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SEE SHEET 6

REMOVE EXISTING TREES & SHRUBS 75 LF / 1300 SF

TRIM EXISTING TREES WHERE NEEDED

ROY JOE & EVELYN R BLACKBURN
PARCEL #:1600029000028

TRIM EXISTING TREES WHERE NEEDED

0' 15' 30' 45'

Scale: 1" = 30'

NOTE: ALL WORK SHOWN ON THIS SHEET SHALL ALSO BE IN ACCORDANCE WITH THE ASSOCIATED SCOPE OF THE WORK DOCUMENT AND THE GENERAL NOTES LISTED ON THE DETAIL SHEET.

SEE BELOW

REMOVE EXISTING 15" TREE

WHERE NEEDED

PROPOSED AIR BRIDGE OVER EXISTING GAS MAIN

SEE ABOVE

REMOVE EXISTING 15" TREE

COMPOSITE MATTING (TYP) (36,708 SF)

PROPOSED WORK LIMITS ±38,140 SF

EXISTING COLUMBIA GAS EASEMENT

Ex GAS MAIN

WELL SITE
6" PVC ABOUT 10" OFF GRADE

SEARS RUSSELL F #1 ORPHAN WELL TO BE PLUGGED PER THE "PLUGGING PLAN" WITH NEW VAULT AND VENT
API: 34-093-6-0277
N= 579573.61 E= 2108702.09 EL= 859.12
LAT= 41.256357°, LONG= -81.990071°

JASON D & NICOLE M KELTNER
PARCEL #:1600029000021
(OWNER OF GAS WELL)

REMOVE EXISTING TREES
(4) 6", (1) 8", (1) 10", (1) 15"

TRIM EXISTING TREES WHERE NEEDED

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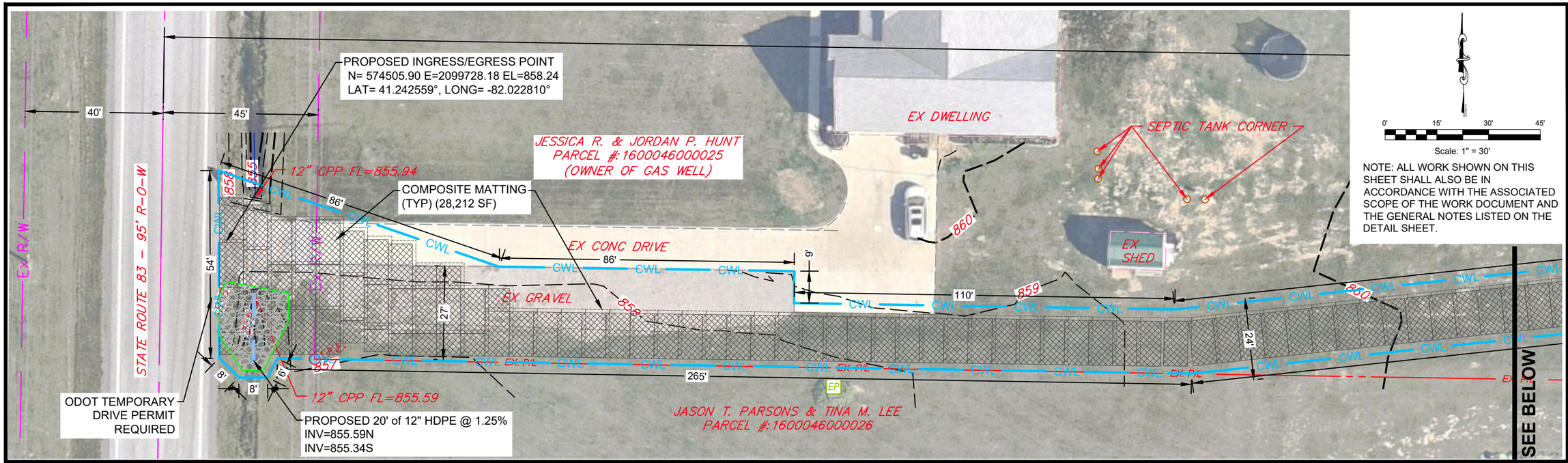
SEARS RUSSELL F. #1
SITE PLAN

LORAIN #13F PROJECT
PLUGGING SOW PLAN SET

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NOTES:
1. PROPERTY LINES SHOWN WERE TAKEN FROM THE LORAIN COUNTY GIS DATA AVAILABLE TO THE PUBLIC. NO BOUNDARY SURVEY WORK WAS PERFORMED TO VERIFY THE PROPERTY LINES.
2. ESTIMATED SITE RESTORATION QUANTITIES
   28,820 SF TOTAL
   3,530 SF (EXISTING GRAVEL AND CONCRETE)
   25,290 SF (RESIDENTIAL YARD)

ESTIMATED SITE RESTORATION QUANTITIES

LOCATION	COMPONENT	RATE	QUANTITY
RESIDENTIAL YARD	FERTILIZER	20 LBS/1000 S.F.	506 LBS
	LIME	400 LBS/1 ACRE	232 LBS
	SEED	10 LBS/1000 S.F.	253 LBS
	MULCH	100 LBS/1000 S.F.	50 BALES

DIVISION OF OIL & GAS
RESOURCES MANAGEMENT
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WISE GEO #1
SITE PLAN

LORAIN #13F PROJECT
PLUGGING SOW PLAN SET

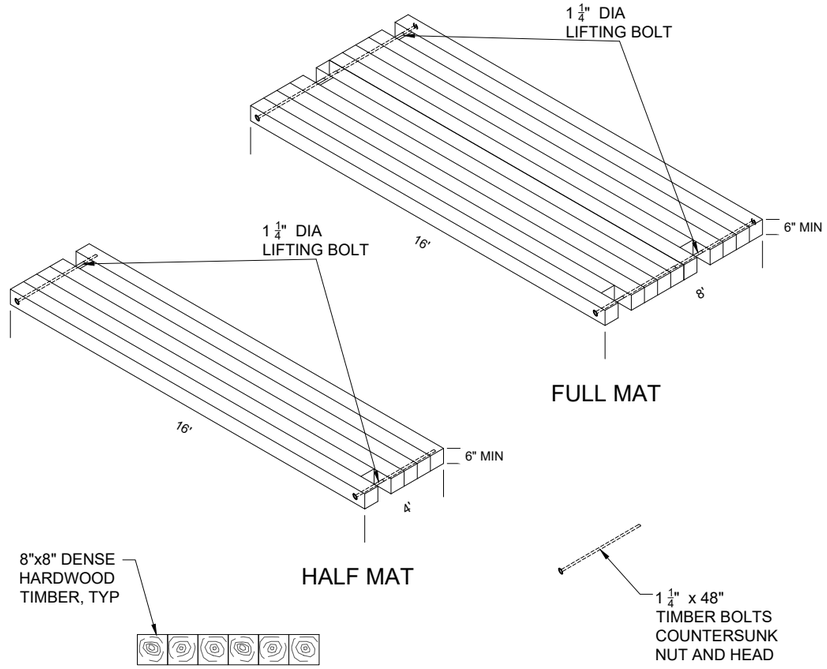
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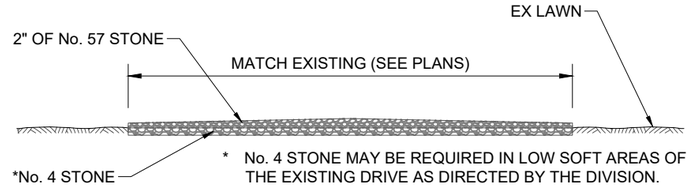
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GENERAL NOTES:

1. UTILITY LINES AND APPURTENANCES ARE SHOWN AS LOCATED IN THE FIELD AND/OR AS REPORTED BY THE RESPECTIVE OWNERS. NEITHER THE NUMBER, TYPE, SIZE, OR LOCATION CAN BE GUARANTEED, AND IT IS THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS.
2. **THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY PROTECTING THE EXISTING BURIED UTILITIES AND CURB & GUTTER DURING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO LINE ITEM "MOBILIZATION".**
3. THE HORIZONTAL DATUM IS BASED ON NAD83 (2011) OHIO STATE PLANE NORTH 3401, AND THE VERTICAL DATUM IS BASED ON NAVD88 GEOID 18A CORS DERIVED.
4. AERIAL IMAGES OBTAINED FROM NEARMAP DATED JULY 2024.
5. THE CONTRACTOR SHALL WORK WITHIN THE WORK LIMITS AT ALL TIMES DURING CONSTRUCTION.
6. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE DETAILED SPECIFICATIONS FOR "TRAFFIC MAINTENANCE".
7. A FLAGGER IN EACH DIRECTION SHALL BE USED WHEN MATERIALS ARE BEING UNLOADED WITHIN THE ROAD RIGHT OF WAY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PHOTO/VIDEO DOCUMENTING THE CONDITION OF THE EXISTING PERMANENT CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
9. TREE AND OVERHANGING LIMB REMOVAL SHALL BE AS DESIGNATED BY THE DIVISION. REMOVALS SHALL PROVIDE THE CONTRACTOR WITH ADEQUATE SPACE REQUIRED TO COMPLETE THE PROJECT. TRIMMING OF TREES SHALL BE CONSIDERED INCIDENTAL TO LINE ITEMS AS SPECIFIED.
10. THE DIVISION MUST BE PRESENT DURING ALL CLEARING OPERATIONS. NO TREES ARE TO BE REMOVED UNLESS DESIGNATED BY THE DIVISION.
11. ANY REMOVED TREES AND VEGETATION SHALL BE PLACED INTO BRUSH PILES AT THE DISCRETION OF THE DIVISION.
12. ALL "CUT" MATERIAL SHALL BE STOCKPILED ON SITE FOR REUSE. STOCKPILES SHALL BE STABILIZED PER LINE ITEM "SITE RESTORATION" UPON ESTABLISHMENT OF TEMPORARY GRADE IF AREAS ARE TO REMAIN OPEN FOR 14 DAYS OR LONGER.
13. ALL COMPOSITE MATTING INSTALLED SHALL BE INTERLOCKED PER THE MANUFACTURER'S REQUIREMENTS. IN AREAS WHERE POOR SUBGRADE IS ENCOUNTERED MATS CAN BE STACKED OVER TOP OF ONE ANOTHER AT THE DISCRETION OF THE DIVISION.



TIMBER MAT
NOT TO SCALE

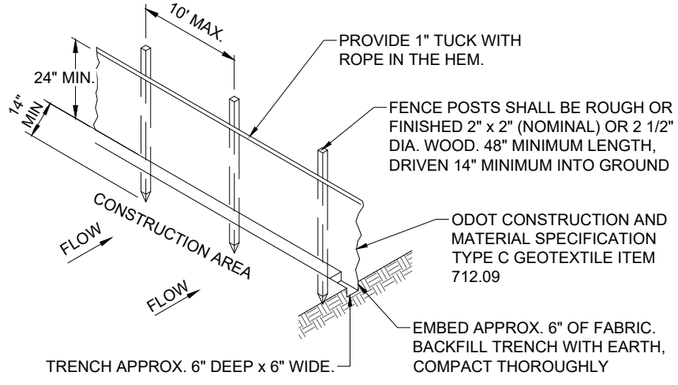


SECTION A-A'

NOTES:

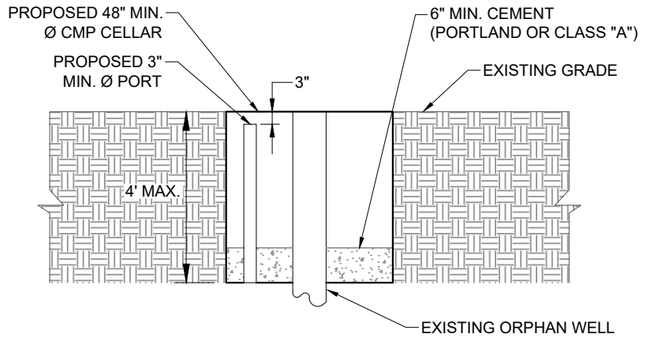
1. THE EXISTING DRIVE WILL BE THE ONLY ACCESS TO THE PROJECT SITE(S). ACCESS FOR THE LANDOWNER SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. AT THE DISCRETION OF THE DIVISION, No. 57 STONE SHALL BE PLACED ON THE EXISTING DRIVE UPON COMPLETION OF THE PROJECT. ALL OTHER ACCESS AREAS SHALL BE RESTORED PER LINE ITEM "SITE RESTORATION".
2. ADDITIONAL STONE MAY BE NECCESSARY TO ENSURE ADEQUATE COVER OVER TOP OF DRAINAGE CULVERTS. (12" COVER PREFERRED)

ACCESS DRIVE STONE OVERLAY
NOT TO SCALE



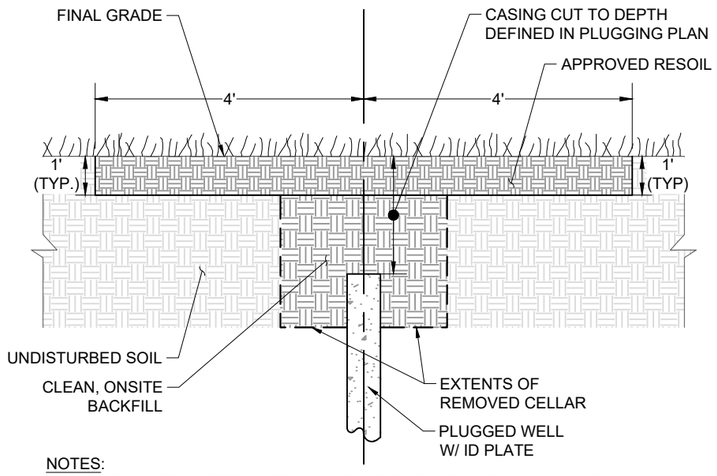
NOTES:
1. FABRIC TO BE FASTENED SECURELY TO FENCE POST AS PER MANUFACTURER'S RECOMMENDATIONS.
2. ENDS OF INDIVIDUAL ROLLS OF FABRIC SHALL BE SECURELY FASTENED TO A COMMON POST OR OVERLAPPED 3" MIN.

SILT FENCE DETAIL
NOT TO SCALE



NOTES:
ALL WORK & MATERIAL ASSOCIATED WITH THE INSTALLATION & REMOVAL OF THE CELLAR SHALL BE CONSIDERED INCIDENTAL TO LINE ITEM "WELL HEAD CONTROL".

TEMPORARY CELLAR
NOT TO SCALE



NOTES:
1. ANY REMOVED MATERIAL FROM AROUND THE WELL HEAD SHALL BE SEGREGATED TO PREVENT ADDITIONAL CONTAMINATION.
2. ONCE THE WELL IS CUT BELOW GRADE, AN EIGHT (8) FOOT BY EIGHT (8) FOOT AREA, ONE (1) FOOT DEEP SHALL BE EXCAVATED AROUND THE WELL HEAD & REPLACED WITH "APPROVED RESOIL".
3. REMOVED MATERIAL SHALL BE DISPOSED OF PER LINE ITEM "CONTAMINATED MATERIAL DISPOSAL".
4. PRIOR TO DELIVERY TO THE SITE OF "APPROVED RESOIL", ON SITE TOPSOIL MAY BE UTILIZED AT THE APPROVAL OF THE DIVISION
5. ALL WORK NOT INCLUDED IN "APPROVED RESOIL" OF "CONTAMINATED MATERIAL DISPOSAL" SHALL BE INCIDENTAL TO LINE ITEM 'SITE RESTORATION".

WELL RESTORATION SECTION
NOT TO SCALE

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RESOURCES MANAGEMENT
IDLE & ORPHAN WELL PROGRAM
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DETAILS

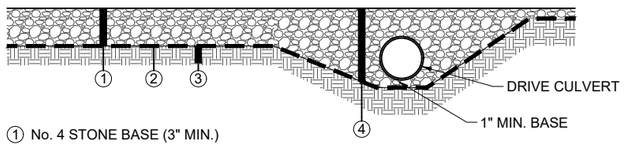
LORAIN #13F PROJECT
PLUGGING SOW PLAN SET

REVISION
6/27/25

DESIGN UNIT: CT CONSULTANTS
DRAWN BY: K.M.R.
CHECKED BY: J.E.C.
DATE: 11/18/2024
SHEET NO.
9 OF 11

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NOTES:
1. THE PROPOSED APRONS FOR THE WISE CW 6 #1, WISE GEO #1, AND THE SEARS RUSSELL #1 DRIVES AND ALL THE CONSTRUCTION DRIVES SHALL BE REMOVED AT PROJECT COMPLETION. THE SOIL STOCKPILE WITHIN THIS AREA SHALL BE USED TO RESTORE SITE TO EXISTING CONDITIONS.
2. * PLACE BASE STONE AS NEEDED ALONG THE EDGE OF EXISTING DRIVES OR IN LOW/SOFT AREAS AS DIRECTED BY THE DIVISION.



① No. 4 STONE BASE (3" MIN.)

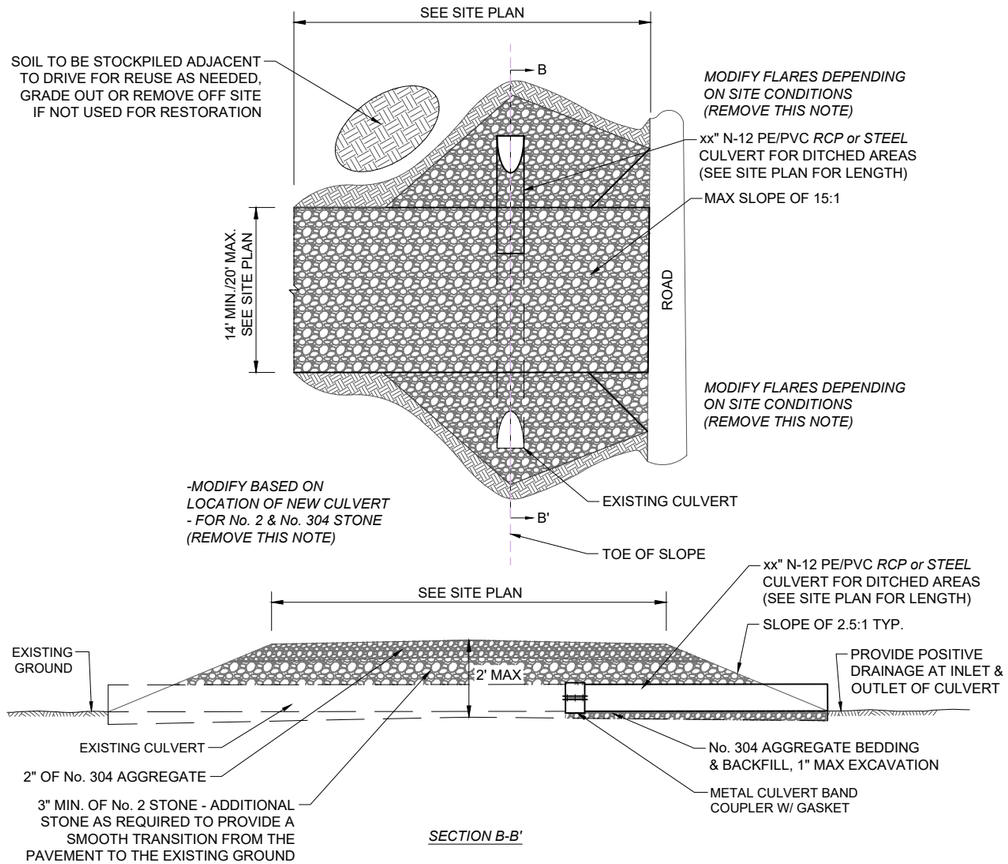
② TYPE "D" GEOTEXTILE FABRIC PER ODOT CMS 712.09
(FOR TEMPORARY APRONS AND DRIVES ONLY)

③ EXISTING SUBGRADE

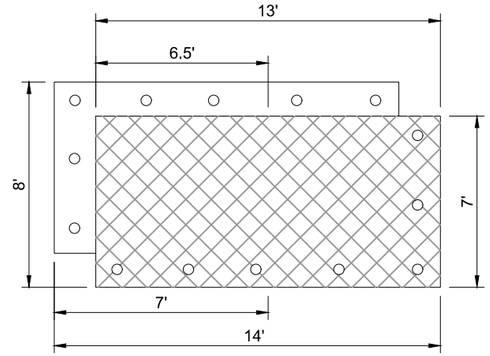
④ No. 4 STONE BASE, BACKFILL AND COVER AROUND CULVERT AS NEEDED FOR AREAS WITHOUT AN EXISTING CULVERT

NOTES:
1. STONE SHALL BE PLACED TO THE EXTENTS SHOWN ON THE SITE PLAN AND IN A MANNER TO ACHIEVE A GRADE SUITABLE FOR MOBILIZATION FROM ROAD ONTO THE PROJECT SITE. FILTER FABRIC SHALL BE INSTALLED AS DIRECTED BY THE DIVISION.
2. ALL STONE AND FABRIC SHALL BE REMOVED UPON COMPLETION OF THE PROJECT AND DISPOSED OF OFFSITE.
3. DISTURBED AREAS SHALL BE RECLAIMED PER LINE ITEM "SITE RESTORATION"
4. DETAIL FOR REFERENCE ONLY SEE SITE PLAN FOR VARIATIONS BASED ON LOCATION.

ACCESS DRIVE SECTION
NOT TO SCALE



(TEMPORARY) ENTRANCE APRON & ACCESS DRIVE W/ CULVERT EXTENSION
NOT TO SCALE



PRODUCT SPECIFICATIONS	
MANUFACTURER	NEWPARK
FULL SIZE HALF SIZE	OVERALL DIMENSIONS: 8' X 14' X 4" SURFACE DIMENSIONS: 7' X 13' X 4" OVERALL DIMENSIONS: 8' X 7.5' X 4" SURFACE DIMENSIONS: 7' X 6.5' X 4"
WEIGHT	1,000 LBS
COMPRESSIVE LOAD CAPACITY	600 PSI (70 KG/CM2)
COLOR	BEIGE
MATERIAL	THE DURABASE ADVANCED COMPOSITE MATS ARE COMPOSED OF A PROPRIETARY FORMULATION THAT INCLUDEDS SPECIALTY RESINS AND HIGH-END POLYMER ADDITIVES FOR ENHANCED DURABILITY AND DIMENSIONAL STABILITY. THIS SPECIAL FORMULATION ALSO PROVIDES AN ANTI-SKID SURFACE AND PREVENTS STATIC CHARGE ACCUMULATION FOR ADDED WORKER SAFETY.
FLAMMABILITY RESISTANCE	NEED INFO RATED
INDUSTRIES	OIL & GAS, TRANSMISSION & DISTRIBUTION, CONSTRUCTION, UTILIZED PETROCHEMICAL, PIPES

DURA-BASE ADVANCED COMPOSITE MAT SYSTEM OR EQUIVALENT
NOT TO SCALE



W21-1
(500' FROM W20-7, BOTH SIDES OF THE ENTRANCE)



W20-7
COVER OR TURN DURING EVENINGS OR WHEN BOTH LANES ARE OPEN (500' FROM FLAGGER, BOTH SIDES OF ENTRANCE)

NOTES:
1. THIS WORK SHALL BE PER THE GENERAL SPECIFICATIONS, PART 7: MAINTENANCE OF TRAFFIC AND SHALL BE INCIDENTAL TO LINE ITEM "MOBILIZATION" FOR EACH SITE, UNLESS OTHERWISE NOTED. **THIS WORK SHALL INCLUDE ALL REQUIRED PERMITS FROM THE LOCAL ROAD AUTHORITIES.**
2. ALL SIGNS MAY BE MOUNTED PORTABLE MOUNTS.
3. CONTRACTOR SHALL FOLLOW THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FIGURE 6H-1, IN BOTH DIRECTIONS ALONG THE ROADWAY. W21-1 SHALL BE IN PLACE AS SOON AS THE CONTRACTOR ARRIVES TO THE SITE EACH DAY.
4. CONTRACTOR SHALL FOLLOW THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FIGURE 6H-13, LANE CLOSURE ON A TWO-LANE ROAD USING FLAGGERS (TA-13).
5. FLAGGERS SHALL HAVE PROPER COMMUNICATION DEVICES AND SHALL BE POSITIONED 20' FROM EACH EDGE OF THE CONSTRUCTION WORK LIMITS. ANY VARIATION MUST BE APPROVED PER LOCATION. **TEMPORARY CLOSURES SHALL NOT BE COMPLETED WITHOUT A FLAGGER.**
6. TEMPORARY CLOSURES SHALL BE MINIMIZED TO LESS THAN 20 MINUTES AND THEN THE ROAD SHALL BE FULLY REOPENED TO TRAFFIC.
7. ANY WORK IN THE ROADWAY THAT IS REQUIRING MORE THAN 20 MINUTES SHALL BE COMPLETED PER GENERAL SPECIFICATIONS, PART 7: MAINTENANCE OF TRAFFIC WITH THE PROPER PERMITS FROM THE LOCAL ROAD AUTHORITIES AND APPROVAL FROM THE DIVISION.

FLAGGER & CONSTRUCTION SIGNAGE NOTES
NOT TO SCALE

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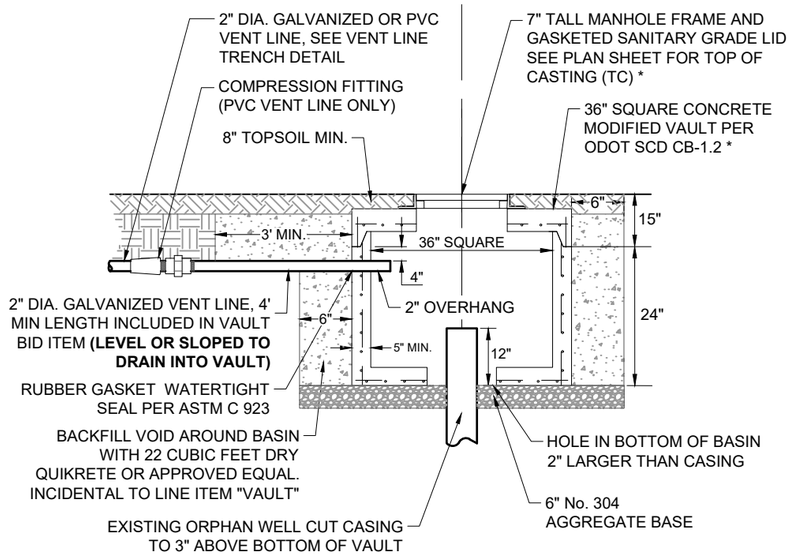
DETAILS

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PLUGGING SOW PLAN SET

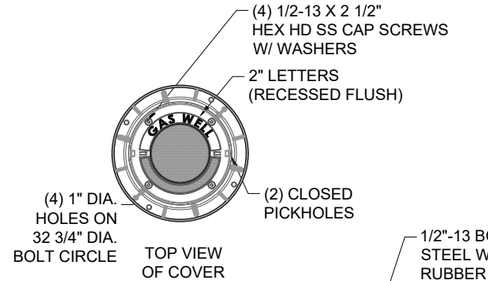
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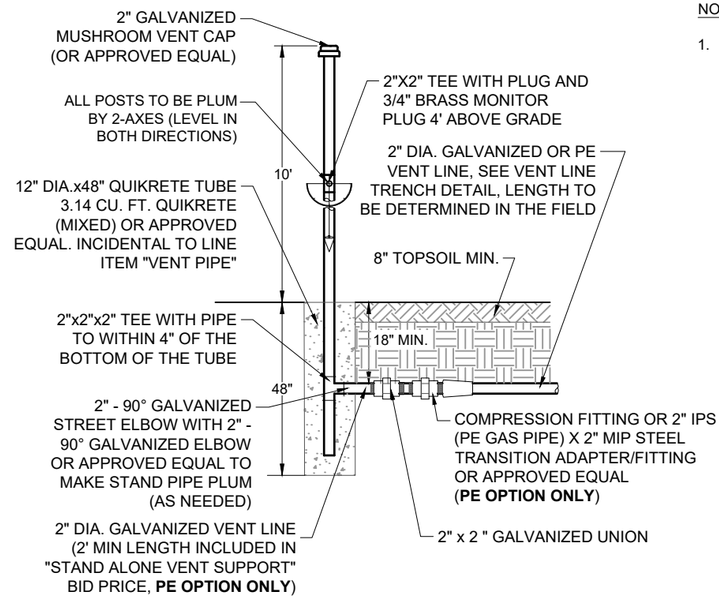
SECTION VIEW & PROFILE



FRAME AND COVER

NOTES:
1. JOINT SEAL: FURNISH RESILIENT SEAL BETWEEN PRECAST MANHOLE SECTIONS AND FLEXIBLE GASKET JOINTS PER ODOT CMS 706.11.
2. MATERIALS: PROVIDE MATERIALS FOR PRECAST SECTIONS, INCLUDING REINFORCEMENT NOT SPECIFIED HERE, THAT MEET THE REQUIREMENTS OF ODOT CMS 706.13.
3. FRAME & COVER: PROVIDE MATERIALS THAT MEET THE MATERIALS REQUIREMENTS OF ODOT CMS 711.14 (NEENAH 1916-C1, EJIW 1040 APT 1045ZPT ASSEMBLY, OR APPROVED EQUAL).
4. VENT PIPES: HORIZONTAL AND VERTICAL LOCATIONS SHALL BE DEFINED IN PLAN VIEW OF THIS PLAN SET OR AS DETERMINED BY THE CHIEF.
5. **VENT PIPE SUPPORT: CONCRETE SHALL MEET THE REQUIREMENTS OF ODOT CLASS "C" AND SHALL BE PLACED IN THE CONCRETE TUBE AS SHOWN IN THE SECTION VIEW. THE VENT PIPE SHALL BE SET THROUGH THE TUBE PRIOR TO THE PLACEMENT OF THE CONCRETE.

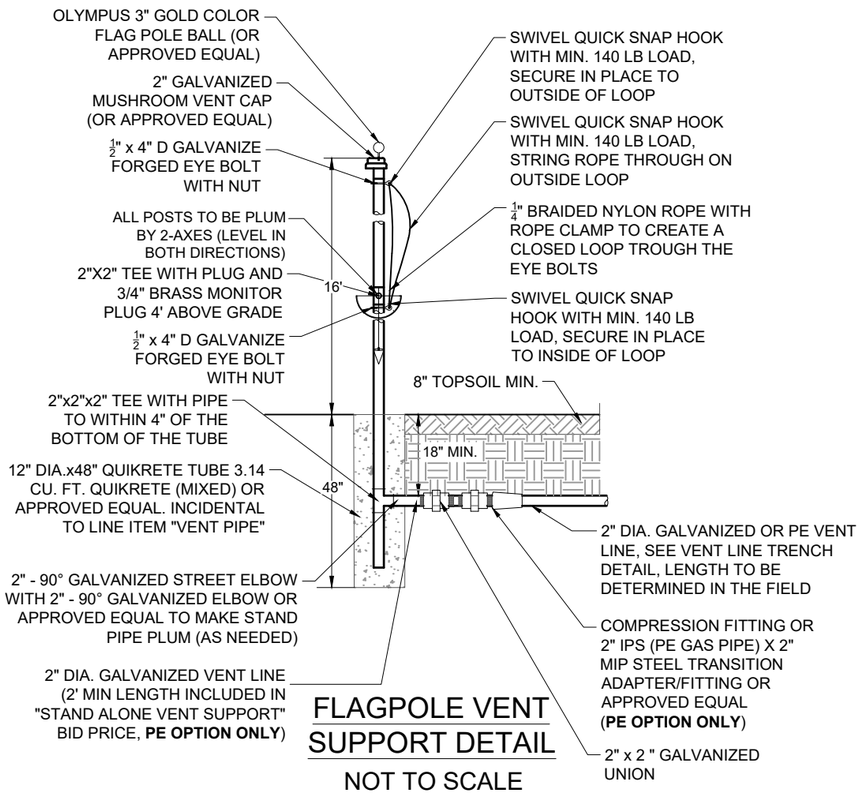
VAULT DETAILS
NOT TO SCALE



NOTE:

1. ODNR AND HOMEOWNER TO COORDINATE AND DECIDE WHICH VENT OPTION (STAND ALONE OR FLAGPOLE) THEY'D LIKE THE CONTRACTOR TO INSTALL.

STAND ALONE VENT SUPPORT DETAIL
NOT TO SCALE



FLAGPOLE VENT SUPPORT DETAIL
NOT TO SCALE

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