



Covington Public Works/Utilities

DIRECTOR OF PUBLIC WORKS

City of Covington

Public Works Meeting

City Hall

Downstairs Board Room 4:00 P.M.

March 4, 2025

1. Wastewater Generator-Awaiting parts for installation- (switch gears)
2. Wastewater Upgrades Clarifiers-Ready to award the bid
3. Hwy 51 Sidewalk Project-Finishing ROW process
4. Water Well #7-Needs repair (see attachment)
5. New Gas Truck-See attachment (Gas Fund)
6. TDOT 2025 Paving Plans-See attachment
7. City's App Update
8. iamGIS Program-Electronic Work orders
9. Public Works Staffing 100%

Other Business:

1. Code Department monthly report: (See attached)

Adjourn:

City of Covington
Water Well #7
Pump S/N HD1570
Police Station
January 28, 2025

WELL #	LOCATION	DEPTH OF WELL	DIAMETER OF WELL	PUMP I.D.	AIRLINE LENGTH	STATIC WATER LEVEL	SHUT OFF PRESSURE	OPERATING PRESSURE	ORIFICE SIZE
Seven (7)	Police Station	N/A	N/A	HD1570	120 Feet	58 Feet	49 PSI	25 PSI	8" x 6"

MOTOR DATA

HORSE POWER	PHASE	VOLTS	HERTZ	FRAME	AMPS	SERVICE FACTOR	UPPER BEARING	LOWER BEARING
50	3	460	60	326TP	61	1.15	6312	7219B

TESTING DATA

ORIFICE READING	AIRLINE READING	GPM	PUMPING LEVEL	DRAW DOWN	DISCHARGE PRESSURE	SPECIFIC CAPACITY	L1	L2	L3
3.5	57	-----	63	5	40	-----	----	----	----
16	51	633	69	11	30	57.55	----	----	----
22	49	742	71	13	25	57.08	41	38	41
39	45	988	75	17	10	58.12	----	----	----
49	42	1,108	78	20	5	55.4	----	----	----

VIBRATION: TOP-0.07; CENTER-0.05; BOTTOM-0.04

HISTORICAL DATA

	Jan-25	Jul-23	Jun-22	May-21	Apr-20	Oct-20
Static Water Level	58 Feet	60 Feet	56 Feet	70 Feet	48.39 Feet	48.39 Feet
GPM at 25 PSI Operating Pressure	742 GPM	838 GPM	654 GPM	708 GPM	844 Feet	822 GPM
Pumping Level at 25 PSI Operating Pressure	71 Feet	73 Feet	63 Feet	84 Feet	62.25 Feet	64.56 Feet
Specific Capacity at 25 PSI Operating Pressure	57.08 gpm/ft d.d.	64.46 gpm/ft d.d.	93.43 gpm/ft d.d.	50.57 gpm/ft d.d.	63.27 gpm/ft d.d.	50.83 gpm/ft d.d.
Shut Off Pressure	49 PSI	53 PSI	40 PSI	42 PSI	47 PSI	44 PSI

The current static water level for Well #7 was recorded to be 58 feet below the top of the pump foundation. Since October 2020, the static water level has descended approximately 10 feet.

- The pump production at an operating pressure of 25 PSI was recorded to be 742 GPM and the pump's shut off pressure was recorded to be 49 PSI. Both the pump production and pump shut off pressure have declined, indicating potential wear within the pumping assembly.

During the visual inspection process, our service technician noted shaft wobble and brass shavings within the discharge head. Brass shavings is a good indication of bearing wear downhole within the pump bowl and could be the reasoning behind the loss of both pump production and pump shut off pressure.

The pump bowl is currently submerged 49 feet when operating and 25 PSI. This submergence is very satisfactory at this time.

The well's specific capacity, which is the well's ability to give up water while being pumped, was recorded to be 57.08 GPM/Ft. D.D. This measurement is in line with previous specific capacity measurements. Water appears to be entering the well freely at this time.

Our service technician did not note any sand or discoloration in the discharge water.

The vibration readings indicate that the pumping unit is slightly above the satisfactory limits while in normal operations.

It is our recommendation that this well be taken out of service and the pumping equipment removed for disassembly and thorough evaluation and repairs as needed.

**City of Covington
High Service Pump 1
Pump S/N Layne
Behind WTP
January 28, 2025**

HSPUMP	LOCATION	MANUFACTURE	PUMP I.D.	TYPE	DISCHARGE
1	Behind WTP	Layne	Unkown	Water Lube VTP	Inline / No Tee

MOTOR DATA

HORSE POWER	PHASE	VOLTS	HERTZ	FRAME	AMPS	SERVICE FACTOR	UPPER BEARING	LOWER BEARING
75	3	230/460	60	365TP	87	1.15	7220BEP	6211-J

PUMP DATA

Hertz (Hz)	OPERATING PSI	SHUT OFF PSI	L1	L2	L3
60	80	Unknown	77.4	78.4	77.4

High Service Pump #1 was inspected and serviced. Our service technician noted that the existing motor is leaking oil severely. The vibration readings indicate this unit is operating outside the satisfactory range.

It is our recommendation that the existing motor be removed from this pump and brought in for disassembly and evaluation



National Water Services
10545 Hwy 64, Suite 1
Arlington, TN 38002
Phone: (901) 409-4052

QUOTATION

Date: February 14, 2025
Purchaser: City of Covington
200 West Washington Avenue
Covington, TN 38019
Attn: Joe Bloechl
Phone Number: (901) 472-4863
Mobile Number: (901) 483-1678
Email: jbloechl@covingtontn.com

We are pleased to submit the following quotation:

Job Description: WELL 7 - FURNISH AND INSTALL ALL NEW STAINLESS STEEL PUMPING EQUIPMENT

LABOR				
QNTY	UNITS	DESCRIPTION	PRICE	TOTAL
1	LS	Three (3) man Crew and Pump Crane (25 Ton)	\$19,300.00	\$19,300.00
		• Mobilization		
		• Setup rigging and equipment		
		• Unwire and remove existing motor		
		• Pull approximately 120' of 8" x 1-1/4" Water Lube Pump Assembly		
		• Load pump assembly		
		• Prep new pumping equipment for installation		
		• Install 120' of 8" x 1-1/4" stainless steel pumping equipment		
		• Install and wire up existing 90 HP motor		
		• Check motor rotation.		
		• Cutch up motor and adjust lateral		
		• Conduct performance pumping test		
		• Secure site and demobilize		
1	LS	Machinist / Shop	\$2,600.00	\$2,600.00
		• Clean and paint discharge head		
		• Straighten line shafts		
		• Resuild stuffing box		
		• Seal and tighten pipe couplings		
TOTAL LABOR				\$21,900.00

MATERIALS				
QNTY	UNITS	DESCRIPTION	PRICE	TOTAL
1	EA	AMP / 11MC - 3 Stage SST Pump Bowl (900 GPM @ 140' TDM)	\$23,633.00	\$23,633.00
1	LS	120' of 8" x 1-1/4" Water Lube - Stainless Steel Column Assembly	\$47,030.00	\$47,030.00
		• (1) 8" x 10' Stainless Steel Column Pipe with Couplings		
		• (2) 8" x 2' Stainless Steel Column Pipe		
		• (1) 1-1/4" x 10' Stainless Steel Line Shaft with Couplings		
		• (2) 1-1/4" x 2' Stainless Steel Line Shaft		
		• (12) Stainless Steel Bearing Retainers with Neoprene Inserts		
1	EA	8" x 20' Stainless Steel Suction Pipe - Threads One End	\$6,263.00	\$6,263.00
1	LS	1-1/4" Stainless Steel Motor Drive Shaft & Adjusting Nut Kit	\$635.00	\$635.00
1	EA	Stuffing Box Bearing	\$100.00	\$100.00
1	EA	New Packing Set for Stuffing Box	\$125.00	\$125.00
120	FT	1/4" SST Airline	\$3.35	\$402.00
1	LS	Miscellaneous (gauges, sealant, banding material, ect.)	\$500.00	\$500.00
TOTAL MATERIALS				\$78,712.00
TOTAL PROJECT COST				\$100,612.00

NOTES: DUE TO RECENT TARIFFS SET IN PLACE, MATERIAL PRICES ARE STEADILY INCREASING AND ARE EXPECTED TO INCREASE AND ADDITIONAL 25% AS EARLY AS FEBRUARY 19, 2025. WITH THE UNCERTAINTY OF MATERIAL PRICING, NATIONAL WATER SERVICES CAN ONLY HOLD THE ABOVE MATERIAL COST FOR FIVE (5) DAYS.
QUOTE IS GOOD FOR FIVE (5) DAYS.
EXPECTED LEAD TIME ON MATERIALS IS 6-8 WEEKS.
QUOTE DOES NOT INCLUDE ANY EVALUATION OR REPAIRS TO THE EXISTING 90 HP MOTOR.

The undersigned Purchaser hereby instructs National Water Services (Contractor), to proceed with work described with the understanding that the Terms & Conditions shown following are hereby incorporated as part of the Quotation and with specific understanding that Contractor will not be liable for any damage in any way whatsoever for failure to complete the described work, for any injury or damage resulting from the Contractor's efforts to perform such work, or for the delay on the Contractor's part in completing same. All work described herein will be provided as quoted above. All quotes indicated, if any, are estimates based on the best information available prior to beginning work. As the work scope changes, additional quotations will be issued. Purchaser's pumps, motors, parts and/or accessories may be stored by the contractor for (30) days from the date of invoice. After said (30) days, disposal of such equipment may be made by the contractor without incurring liability.

PURCHASER

City of Covington

CONTRACTOR

National Water Services

By: _____
Title: _____
Date: _____
POB _____

By: Ryan McMurtry
Title: Project Manager
Date: February 14, 2025



1. Proposal is based upon a 4 Day X 10 Hr, weekly work schedule, with Saturdays reserved as "make up" for any weather delay.

2. Proposal does not include costs to relocate, remove, abandon or replace existing buried utilities, conduits, vaults, other systems unless explicitly included in the proposal.

3. Proposal does not include costs to locate, demolish, remove or dispose of structures, foundations, piping, piling, wreckage, buried trash or other man-made obstructions which may be encountered while excavating on this project unless explicitly included in the proposal.

4. Proposal requires an equitable contract adjustment for any delay or impact caused by parties other than NWS, or any unforeseen site conditions, which may inhibit work.

5. Unless explicitly stated otherwise, Proposal requires that excess excavated material, including dirt, be left on site within 10' of excavation.

6. Proposal does not include rock removal unless explicitly included in the proposal.

7. Trench Shoring is not included, excavations shall be benched unless explicitly included in the proposal.

8. Subcontractors will not be signatory to project labor agreements unless explicitly included in the proposal.

9. Proposal requires Contractor and Subcontractors will utilize pre-existing, established project management, field supervision and labor work forces, and will follow "open shop" labor practices with regards to project staffing and work rules.

10. Proposal requires that NWS and Subcontractor work force will spend no more than 3 hours in project-specific orientation and safety training, prior to beginning work on the project.

11. Proposal includes cost for applicable standard insurance coverages but does not include cost for Builders Risk, Pollution, environmental, or Longshoreman insurance.

12. Proposal requires that the End User obtains all permits, including Rail Road Right Away, USOC Permits etc.. Any and All Required Permits shall be furnished by others.

13. Proposal does include Local and State Sales Tax for permanent materials unless explicitly included in the proposal.

14. Unless the Proposal so requires, NWS and Subcontractors shall not be signatory to project labor agreements.

15. The Pump removal cost provided in your quotation represents cost associated with removing an intact assembly. If any component of the pumping unit assembly is detached such as the Oil Tube connection(s), line shaft connection(s) and column or drop pipe connection throughout the setting, the removal operation shall be suspended and the end user's representative will be notified. In such an event, NWS's crew will be demobilized, the client/end user will bear the expense of 50% of the original quoted removal cost. NWS's representative will develop a plan for removal of the detached assembly and furnish cost to the client/end user for remobilization, fabricating the retrieval devices and a per hour cost for removal efforts. NWS explicitly excludes any guarantee of success pertaining to retrieval. It also excludes any and all damage to the well, it's pumping unit or attachments during retrieval efforts.

16. Furnishing a Well Pump without NWS obtained Capacity Data:
NWS is not responsible for Pumping Unit Performance in relationship with a wells capacity when data is obtained by others and provided to NWS and/or a recommendation has been made to clean the well by NWS.

17. Unless NWS has a current ongoing agreement with owner to maintain well capacity NWS excludes any guarantee of a wells ability to maintain capacity after a well cleaning or well revitalization.

18. Ingress and Egress: NWS removes Pumping Units and Drills Wells with rubber tire equipment. It is not responsible for cost associated with site access or site reclamation. Provisions shall be specifically included in your quotation for this if included in your proposal.

19. Test Drilling: NWS specifically excludes any guarantees, warranties, or promises regarding the quantity and quality of water produced by the Project.

20. EXCEPT FOR THE EXPRESS REPRESENTATIONS AND WARRANTIES SET FORTH IN THE PROPOSAL OR IN THIS DOCUMENT: (i) NEITHER PARTY HERETO NOR ANY PERSON ACTING ON SUCH PARTY'S BEHALF HAS MADE OR MAKES ANY EXPRESS OR IMPLIED REPRESENTATION OR WARRANTY WHATSOEVER, EITHER ORAL OR WRITTEN, WHETHER ARISING BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE, OR OTHERWISE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED; AND (ii) EACH PARTY HERETO ACKNOWLEDGES THAT IT HAS NOT RELIED UPON ANY REPRESENTATION OR WARRANTY MADE BY THE OTHER PARTY, OR ANY OTHER PERSON ACTING ON SUCH OTHER PARTY'S BEHALF, EXCEPT AS SPECIFICALLY PROVIDED IN THE PROPOSAL OR THIS DOCUMENT IN ENTERING INTO THIS WAIVER. THIS WAIVER OF CLAIMS INCLUDES, BUT IS NOT LIMITED TO, A WAIVER OF ANY CLAIMS REGARDING THE WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE, OR THE WARRANTY OF MARKETABILITY.

21. The Terms and conditions of work to be performed by NWS are expressly limited to the Proposal and this document. NWS field workers expressly lack the authority to bind NWS, or to amend any term, condition, or scope of performance related to the Proposal. The terms of this document, or the Proposal, shall only be amended by the express written consent of NWS officers, directors, or the sales representative(s) who submitted the Proposal.

NATIONAL WATER SERVICES, LLC

A Fully Licensed - Tennessee, Alabama, Mississippi, Arkansas & West Virginia Municipal and Utility General & Building Construction Contractor

AND A Licensed - TN, AL, MS, KY, IN, OH, AR, WV, GA & IL Well Driller and Pump Installer

WEB: www.national-water.com



Terms and Conditions

The contract price for this project has been calculated based on the current prices for the component materials. However, the market for these materials that are herein specified is considered to be volatile.

National Water Services, LLC is pleased to quote these services and products for your application. This quotation is valid for 30 DAYS from the date of this quotation.

Pursuant to General Contractors being provided being furnished quotations from NWS, we understand there is a potential for your award to be delayed up and until the expiration of your Bid Bond - 60 days. As a result NWS shall hold pricing for a 60 day period from the original bid date of the project. Specifically pertaining to material sales on Bid Build Projects, NWS shall furnish to you an itemized quotation separating the quoted components from start up and commissioning. Each shall be invoiced as follows: Material-net 60 day terms from the delivery date. Commissioning and Start Up-net 60 day terms from the event, neither supplied materials or Start Up and Commissioning shall be subject to Retainage.

PRICE AND PAYMENT

Unless otherwise agreed by National Water Services, LLC in writing, prices quoted - special packaging or any sales, use, excise, VAT or similar taxes. Taxes imposed by any federal, state, county, city or municipal law on the Goods will be added to the invoice unless a fully completed and executed tax exemption certificate is received by National Water Services, LLC with the executed purchase or contract order. Unless otherwise agreed by National Water Services, LLC in writing, payment terms are net thirty (30) days from the date of invoice. CLIENT SHALL PAY A LATE CHARGE OF ONE AND ONE-HALF PERCENT (1.50%) PER MONTH ON ALL AMOUNTS NOT PAID WHEN DUE. Client waives its right to set-off against claims it may have against National Water Services, LLC and acknowledges that it may not suspend its payment obligations. National Water Services, LLC reserves the right to withhold shipment or to require other adequate assurances of performance of Clients payment obligations. Client shall be liable for all expenses, including attorneys' fees, relating to the collection of past due amounts.

Thank You,

NATIONAL WATER SERVICES, LLC

NWS Rep: Ryan Mc Murry

Acceptance Of The Terms and Conditions

Client: _____

Title: _____

Signature: _____

Project: _____

Date: _____

Purchase Order# _____

City of Covington

PO Box 768

Covington, TN 38019

Business: (901) 476-9613

PO #:	5587
Order Date:	10/31/2024
Vendor #:	1377
Date:	11/01/2024

To: Wilson County Motors
903 South Hartmann Dr
Lebanon, Tn, 37090

Print Date: 11/01/2024

Date Needed:

Terms:

DELIVER ITEMS TO:

SPECIAL INSTRUCTIONS

Attn:

Item	Fund Account Number	Qty	Description	Unit Price	Amount
1	415-16400	1.0000	2025 CHEVROLET 3500	\$62,387.690000	\$62,387.69
Grand Total					\$62,387.69

There is an ~~otherwise~~ unencumbered balance to the credit of the proper appropriation, allotment or fund to meet the expenditure covered by this purchase.

APPROVED

AUTHORIZED SIGNATURE

PURCHASING AGENT



Wilson County Motors SWC#209 Vendor#0000000869

Sabrina Edwards | 615-444-9642 | Sabrina@wilsoncountyauto.com

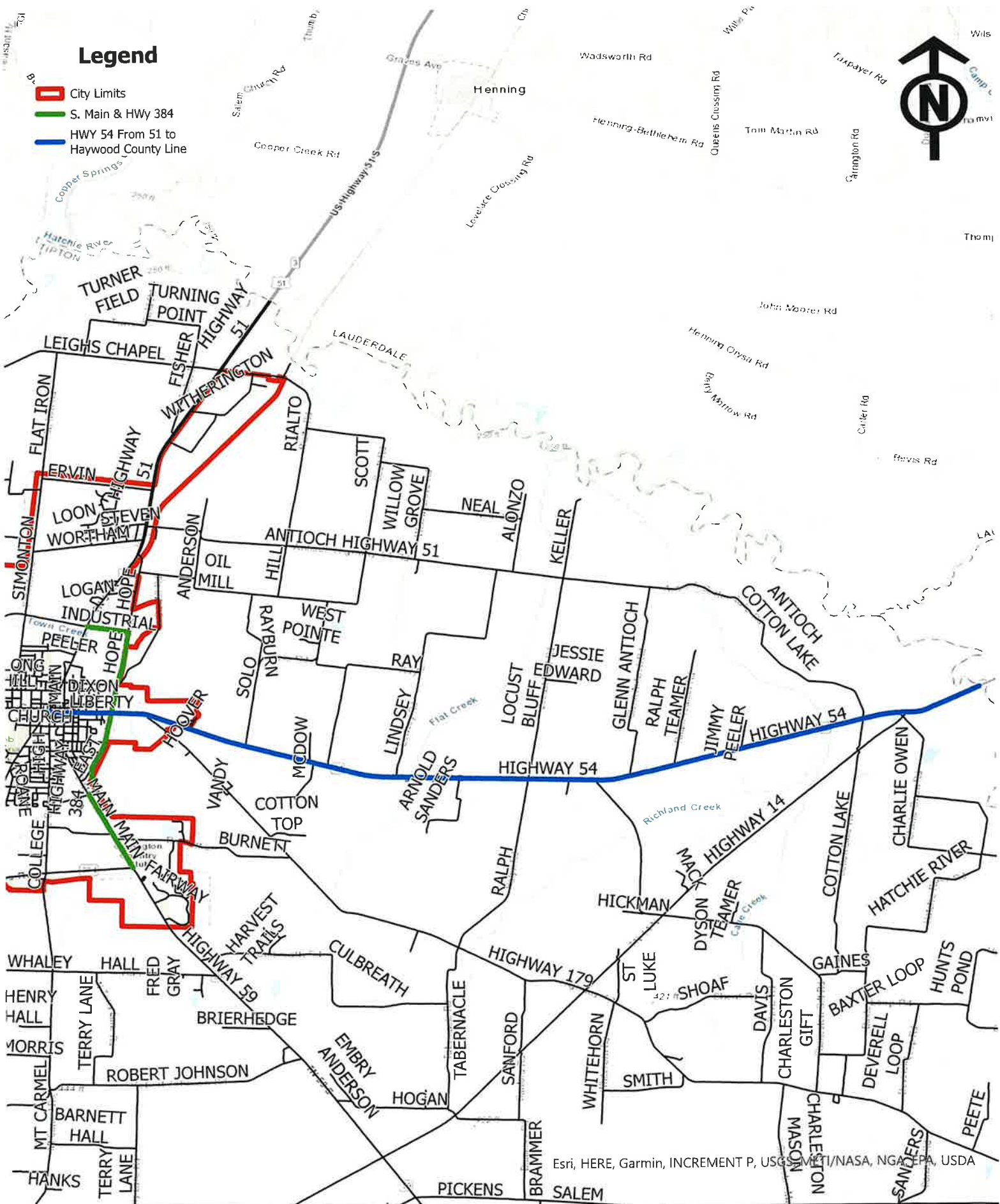
City of Covington

Vehicle: [Fleet] 2025 Chevrolet Silverado 3500HD CC (CK31043) 4WD Crew Cab 177" WB, 60" CA
Work Truck

Image Not Available

Legend

- City Limits
- S. Main & Hwy 384
- HWY 54 From 51 to Haywood County Line



Esri, HERE, Garmin, INCREMENT P, USGS, NOAA, NASA, NGA, EPA, USDA

TDOT Paving Project

PREPARED BY:

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Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USF, NOAA

TDOT Paving Project

PREPARED BY:

CODE COMPLIANCE DEPARTMENT REPORT: March 4 , 2025



TOUCHPOINTS:

Personnel Report: 1 employee will be out of the office an extended period of time

Training: On going in numerous subjects

On Going Projects:

- Blight Grant
- Property Maintenance Concerns
- Site Plans submitted:
None
- Re-zoning Application or Text Amendment submitted:
None
- Commercial Renovation applications submitted:
None