BROOKE COUNTY PUBLIC SERVICE DISTRICT BROOKE COUNTY, WEST VIRGINIA

PHASE IIC SANITARY SEWER LINE EXTENSIONS (ST. JOHN'S ROAD, DELTA LANE, BAXTER ADDITION, ETTA LANE, MEMORIAL LAKES ROAD, MULBERRY DRIVE, PLEASANT VALLEY LANE, WALKER MANOR DRIVE)

ADDENDUM #1

JUNE 5, 2023

THRASHER PROJECT #101-020-1370

TO WHOM IT MAY CONCERN:

A Pre-Bid Conference was held on Wednesday, May 24, 2023, on the above-referenced project, a copy of the sign in sheet is included in this Addendum. The following are clarifications and responses to questions posed by contractors for the above reference project.

A. DRAWINGS

The following Plan Sheets have been added to this Addendum:

- 1. Plan Sheet 16 involves parcel #90 in which the E1-1-4 Grinder Station was slid towards the road approximately 20 feet due to ROW Negotiations.
- 2. Plan Sheet 23 has added a note to the sheet that the Contractor shall not disturb the homeowner's fence or turf yard on parcel #12.
- 3. Plan Sheet 27 had the Valve Vault Diameter and the Wet Well Diameter dimensions flipped on this sheet and it has since been revised.
- 4. Detail Sheet D2 had the incorrect dimensions for the Manhole Lids. The revised Detail Sheet was added with the correct dimensions for the Manhole Lids.
- 5. Detail Sheet D4 has been updated and revised due to an incorrect representation of the Customer Service Lateral Cleanout Detail for this project. It also includes the addition of the Pressure In Line Cleanout for 2" and Smaller Forcemain.
- 6. On the Project Notes (PN) sheet, the language regarding the SDR26 pipe has been removed and the notes regarding how the Engineer will now be performing the Pre-Construction have been updated as well.
- 7. Plan Sheet 27E was added to the Plan Set to add in a Generator Pad Detail that was not previously on the plans.

B. QUESTIONS AND RESPONSES

1. QUESTION

Is the field trailer necessary for the project?

RESPONSE

Yes. In reference to the Specification Section 015000 – TEMPORARY FACILITIES AND CONTROLS – 1.11 FIELD OFFICE AND SHEDS, it gives an explanation into the length of time it needs to be up for and how to submit evidence of insurance.

2. QUESTION

If the pump is not pre-approved, will it not be approved afterward?

RESPONSE

Pumps and other equipment may be submitted on this project by the awarded Contractor during the submittal process for review. If the submitted substitute meets the specifications of the project, the equipment will be deemed an "Engineer's Approved Equal" for use on this project.

3. QUESTION

For the grinder pumps and pump stations, who is responsible for getting power there?

RESPONSE

Per Specification Section 260500 – BASIC ELECTRICAL MATERIALS AND METHODS – 1.5 COORDINATION, it states how the electrical services will be conducted and what the Owner, Engineer, and Contractor are responsible for. The Brooke County PSD will pay the power company for the new electrical services that have fees. This does not include any necessary inspection fees.

4. QUESTION

How are the DOH Inspection Fees paid for?

RESPONSE

The DOH Bonds and inspection fees are paid by the Owner.

5. QUESTION

It calls out for the manhole covers and frames to be painted with corrosion resistant coatings, is that necessary?

RESPONSE

Yes. As per the Specification Section 330513.01 – MANHOLE FRAMES AND COVERS – 3.2 PAINTING, it states to apply a dry film thickness (DFT) of 40 mils minimum and to not paint the top side of the manhole cover.

6. QUESTION

Is the completion time anything critical or is there a possibility for extension?

RESPONSE

The project shall be substantially complete within 365 calendar days. It shall be completed and ready for final payment within 395 days. However, weather days may be requested with monthly pay applications and reference from the SOC.

7. QUESTION

On the three (3) pump stations, are the valve vaults meant to be five (5) foot wide?

RESPONSE

Sheet 27 of the plans has been revised so the valve vaults for all three (3) pump stations are to be four (4) foot diameter vaults.

8. QUESTION

In the one file the watertight is a 1915-S1. The drawings show a 1916-F, which one do you want us to quote?

RESPONSE

The manhole lid shall be the 1915-S1 model manhole. Sheet D2 has been updated and included with this Addendum to show the corrected dimensions to meet the specifications of the 1915-S1 model.

9. QUESTION

Do you have a detail of what is required for bid item 62, in-line pressure cleanout shown on page 17 of the plans?

RESPONSE

A detail for Pressure In Line Cleanout for 2" and Smaller Forcemain has been provided in this Addendum.

10. QUESTION

Section 330513-4, 2.3 A03 calls for "Rubber Seal Wraps" regarding manhole riser rings, is this something that needs to be included? Can it be elaborated on what is required if so?

RESPONSE

The Rubber Seal Wraps must be included on the manhole riser rings. Infi-Shield External Gator Wrap or Engineer's Approved Equal is to be used for Rubber Seal Wraps.

11. OUESTION

The detail and spec section for boring & jacking shows casing pipe with & without a protective coating, is a coating required for casing pipe?

RESPONSE

There is not a requirement for a coating on the casing pipe.

12. QUESTION

Is #57 limestone an acceptable alternate to the noted #10 limestone?

RESPONSE

Yes, the Contractor may use #57 limestone as the bedding cover for all piping.

13. QUESTION

The spec section for fencing calls out multiple coatings along with privacy slats & fabric, can it be cleared up what we are to include?

RESPONSE

The Contractor may use any of the privacy slats called out in the fencing specification section. All fencing shall be Zinc-Coated Fabric ASTM Code A 392, Type II, Class 1. The only requirement for the privacy slats is that the color must be Hunter Green.

14. QUESTION

The plan sheets for the pump station call out reference to sheet D5 for a detail of the access roads, there is no detail on D5 for this. What detail are we to follow for the access roads? The detail on 27A or detail on D10?

RESPONSE

The detail provided on Sheet D10 shall be followed for the access roads to the pump station sites.

15. QUESTION

Other than the few properties that specify what to do with the lumber from clearing, will we be permitted to chip the trees and blow them into the surrounding woods or must they be hauled offsite?

RESPONSE

All chips of trees shall be hauled offsite to a proper dumping location unless the Contractor receives written permission from the property owner.

16. QUESTION

The note regarding the sewer pipe on sheet #PN, are we to use SDR26 PVC Pipe for cover depths between 12' and 18'? There is no bid item for SDR26 Pipe.

RESPONSE

The note regarding the sewer pipe on sheet #PN has been updated to say SDR35 pipe for all PVC pipe and sheet #PN will be included in **SECTION C – DRAWINGS.**

17. QUESTION

Will any of the stone backfill called for in WVDOH Type B Trench Repair be paid for in the WVDOH Stone Backfill item #15?

RESPONSE

No, if it is called out as WVDOH Type "B" Trench Repair in the plans then the Contractor will be paid for Type "B". If it is called out as WVDOH Stone Backfill, then the Contractor will be paid for the Stone Backfill pay item. There are separate Details in the Plans for Type B and Stone Backfill. The Contractor will follow the appropriate Detail when called out in the Plans and be paid under the corresponding Bid Item.

18. QUESTION

Yost Mobile Home Park Road is currently asphalt, on plan sheet #8 it is labeled as WVDOH Type C Trench Repair with HMA overlay. Is this correct?

RESPONSE

Yes, it is currently asphalt on Yost Mobile Home Park Road and it will be WVDOH Type "C" Trench Repair with HMA Overlay going there once construction of the area is completed.

19. QUESTION

The Pump Station #4 rehab section refers to pipe rehab on the influent. Is this going to be done as the influent is force main?

RESPONSE

Yes, this will be done under the consideration that the influent flow is the force main while you rehabilitate the existing Wet Well at Pump Station #4.

20. QUESTION

What is the expected flow rate at Lift Station #4? How much head is there to overcome for bypass pumping?

RESPONSE

The expected flow rate at Lift Station #4 operates at approximately 45 GPM. There is 232' of total dynamic head (TDH) at this pump to overcome for bypass pumping.

21. OUESTION

What bid item are the Customer Service Lateral Cleanouts (Sheet D4) to be paid under? Or are these not required? Bid items 51-53 — Call out a Wye Service. The Detail on Sheet D4 has a 2-way Sanitary Tee. Please verify.

RESPONSE

Customer Service Lateral Cleanouts are not required. The Wye Service connections on Bid items 51-53 are to use the detail on Sheet D4 shown as "Service Connections" that has been updated and provided as part of this Addendum, see revised detail.

22. OUESTION

Is this project AIS?

RESPONSE

No, this project is not required to meet American Iron and Steel (AIS) requirements.

23. QUESTION

Please provide Generator Pad Details.

RESPONSE

The Generator Pad Details have been provided in this Addenda under **SECTION** C – **DRAWINGS.**

24. QUESTION

There are 2 details for Reinforced Concrete Anchors (D6 and D8). Which is correct?

RESPONSE

The detail on sheet D6 is for Reinforced Concrete Anchors and they are called out on the plans in the areas of steep slopes. The detail on sheet D8 is for HDPE Pipe Anchors and those are to be used when transitioning from non-HDPE (DI, PVC, etc.) to HDPE pipe when exiting the Valve Vaults at the Pump Stations or when tying HDPE Pipe into concrete manholes. The HDPE Pipe Anchors are also shown where applicable on the plan sheets.

25. QUESTION

How wide of a span is required for the air bridge over the gas line?

RESPONSE

Per the Temporary Equipment Timbermat Gas Pipeline Crossing detail on Sheet D11, the span for the air bridge shall be 15'off each side of the gas pipeline.

26. QUESTION

Who is the person you have been in contact with regarding the spray lining of the interior of the manholes?

RESPONSE

The person that the Engineer has been in contact with regarding the spray lining of the interior of the manholes is Jason Foster of Spectra Shield and he can be reached at: jfoster@spectrashield.com.

27. QUESTION

Will there be VFDs required for the lift stations?

RESPONSE

Yes, there is a requirement for a VFD at all three (3) lift stations.

28. QUESTION

Will HOMA Pumps be allowed for bidding?

RESPONSE

Yes, the HOMA GRP41/3 Pump is deemed an "Engineer's Approved Equal".

29. QUESTION

What are the depths of the basins for the two (2) simplex stations (E-1-1-2 & E-1-1-4)?

RESPONSE

The invert coming into the E-1-1-2 and E-1-1-4 Simplex Grinder Pump Stations shall be approximately 34 inches.

30. QUESTION

What type of level transducer shall be specified for use on this project?

RESPONSE

The existing level transducers are the NOSHOK Level Transmitter & Transducers. Keith Smith at C2G Engineering, Inc. can be used as a contact for these level transducers and can be reached at ksmith@c2geng.com.

C. CLARIFICATIONS

- 1. There were questions about the direction of flow arrows in the Plan Set. The plans have been reviewed and it was determined that there was a glitch in the Auto CAD files that flipped or removed flow arrows throughout the Plan Set that was issued for Bidding. The pipe profiles shown in the Plan Set are correct and show the correct orientation of flows through the system. The Plan Set will be updated to show the correct orientation of flow arrows and provided to the awarded contractor at the Pre-Construction Conference.
- 2. Note 24 under the WVDOH General Notes and Note 17 under General Notes states that Pre-Construction Video Taping shall be provided by the Contractor. The Thrasher Group will perform Pre-Construction videotaping of the project area within the rights-of-way provided in the plan set where work shall be performed. The contractor shall be responsible for videotaping areas utilized by the contractor that are not shown in the Plan Set such as storage areas, laydown yards, access points not shown in the plan set, etc.
- 3. There will be no Level Transducers put in Pump Stations #3 and #4. There was a level transducer put in Pump Station #3 on a previous project. Pump Station #4 is scheduled for improvements in an upcoming project in which a level transducer will be put in.

If you have any questions or comments, please feel free to contact me at your earliest convenience. As a reminder, bids will be received until 2:00 p.m. on Wednesday, June 14, 2023, at Brooke County Public Service District Office, 711 Charles Street, Wellsburg, WV. Good luck to everyone and thank you for your interest in the project.

Sincerely,

THE THRASHER GROUP, INC.

GREGORY M. BELCHER, P.E.

Jugory M. Blah

Project Manager

Enclosures: Pre-Bid Sign-In Sheet

Specification Section 333101 – Package Sewage Grinder Pump and Appurtenances

Plan Sheets: 16, 16A, 23, 27, D2, D4, PN, and 27E.

CONTRACT #1 – PHASE IIC SANITARY SEWER LINE EXTENSIONS BROOKE COUNTY PUBLIC SERVICE DISTRICT BROOKE COUNTY, WEST VIRGINIA

PRE-BID CONFERENCE Wednesday, May 24, 2023

Thrasher Project #020-01370

Name	Representing	Phone #	Email Address
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Dan Williams	OWN Exe.	740-312 740-38-2867	dwilliams CowvexCANATing. con
Tony Closson	IF Allen Company	45HC-2H-405	Flosson Q [7 A) len Co, Cons
SEAN PHARES	RDR UTILITY SERVICES GROUP	304,476,5286	Sphares@rdrusg.com
RANDY VLANCH	GLENN JOHNSTON, INC	412-897-8629	GREGGJOHNSTON EGHAIL, LON
Will Allison	Alex E Pais Contracting 724 947 2235	5822246 422	Wallson @ alexpacion
Lric Sprouse	Been Contracting	304-326-0160	estimating beer-contracting.com
Michael Crans,	James Whi H Const Co 304-748-8181 programie	304-748-8181	Tgiannia fameswhiteorstruction.com

Email Address	Zprice (Musi. com						
Phone #	5949-142-608						
Representing	National Road Utility Sugaly 304-271-6465						
Name	Zarley Prize						

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SECTION 333101 - PACKAGE SEWAGE GRINDER PUMP AND APPURTENANCES

PART 1 - General

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract Documents, including General and Supplementary Conditions, and all related Specification Sections, apply to this Section.

1.2 SUMMARY

A. The work in this section includes furnishing and installing package wastewater grinder pump units.

PART 2 - PRODUCTS

2.1 PACKAGE GRINDER PUMP STATIONS

A. Grinder pump assembly #E1-2 shall be pre-manufactured, duplex, semi-positive displacement, 1HP, 1725 rpm, 240 V, 1 phase grinder pump unit, fiberglass, and a 150 gallon capacity wet well for duplex stations. Duplex station to include 6" inlet connection sized to accept 6" PVC SDR 35 pipe. Also, station to include discharge connection, separate HDPE drywell access way for non-traffic areas, anti-siphon valve and check valve, controls and alarm/disconnect panel.

Grinder pump assembly #E1-1 shall be pre-manufactured, simplex, semi-positive displacement, 1HP, 1725 rpm, 240 V, 1 phase grinder pump unit, fiberglass, and a 70 gallon capacity wet well for simplex stations. Simplex station to include 4" inlet connection sized to accept 4" PVC SDR 35 pipe. Also, station to include discharge connection, separate HDPE drywell access way for non-traffic areas, anti-siphon valve and check valve, controls and alarm/disconnect panel.

- B. Grinder pump assemblies shall be manufactured by Environmental/One Corporation, <u>Model DH 152-93</u> for the duplex and <u>Model DH071-74</u> for the simplex, Myers <u>VRS10A-21</u>, or approved equal.
- C. Contractor to supply one (1) spare pump which is capable of being installed in the simplex or duplex station.

2.2 CONCRETE ANTI-FLOATATION SLAB

A. Subbase bedding for grinder station shall be as detailed on the construction plans.

PART 3 - EXECUTION

3.1 PIPING CONNECTIONS

A. Contractor to make piping connections to the inlets from the gravity drain lines from the sludge storage building.

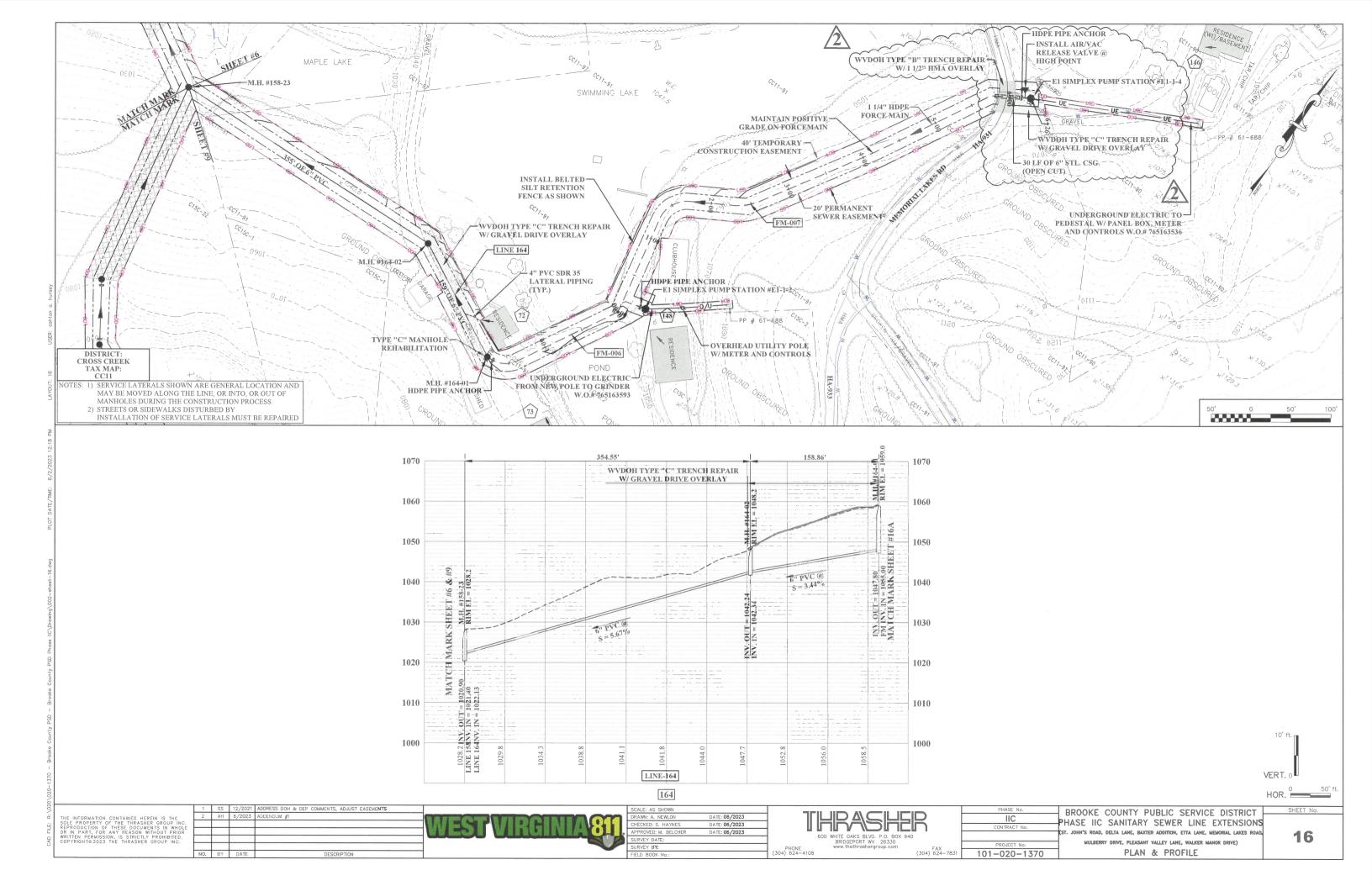
3.2 ELECTRIC SERVICE AND CONTROLS

- A. Contractor shall install pump station control panels and transformers (supplied by the equipment manufacturer) and supply all wiring for power and alarm system as recommended by the manufacturer.
- B. Electrical wiring and alarm wiring shall be placed in separate (PVC) Schedule 40 conduit in underground installations. Conduits shall be water tight.
- C. Visit www.firstenergycorp.com/builders-contractors for the Customer Guide for Electric Service.
- D. All electrical workmanship and material shall meet or exceed the latest National Electric Code (NEC) requirements.

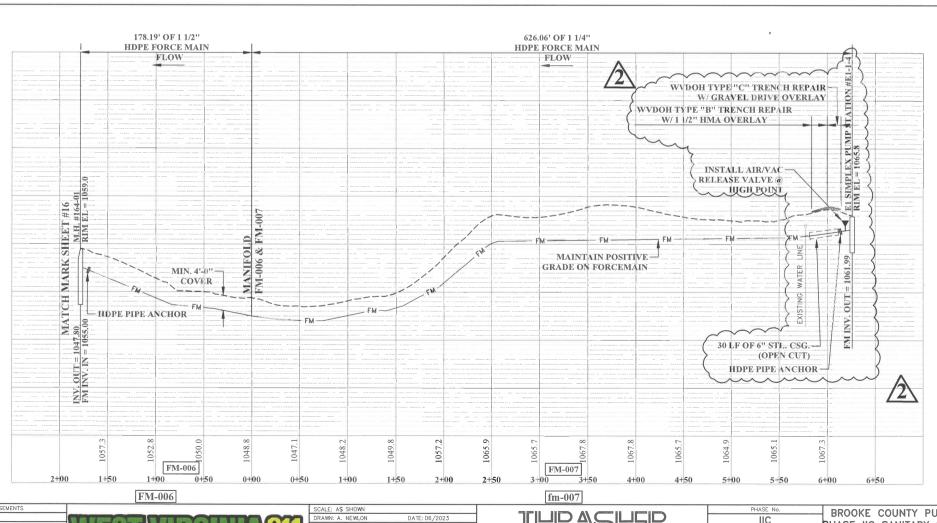
3.3 OPERATION AND MAINTENANCE

- A. Contractor shall furnish all labor and equipment for testing in accordance with manufacturers written instructions and start up training for the grinder stations by a representative of the equipment manufacturer for a minimum of 8 hours excluding travel time.
- B. Contractor shall furnish any spare parts per the equipment manufacturers written recommendation to the Engineer.
- C. Contractor shall furnish six bound copies of pump station operation and maintenance manuals.

END OF SECTION 333101



SEE SHEET #16 FOR PLAN VIEW



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1 SS 12/2021 ADDRESS DOH & DEP COMMENTS, ADJUST EASEMENTS
2 AH 6/2023 ADDENDUM #1

NO. BY DATE DESCRIPTION

SCALE: AS SHOWN

DRAWN: A. NEWLON

DRAWN: A. NEWLON

OHCOKED: S. HAYNES

APPROVED: M. BELCHER

DATE: 06/2023

SURVEY DATE:

SURVEY BY:

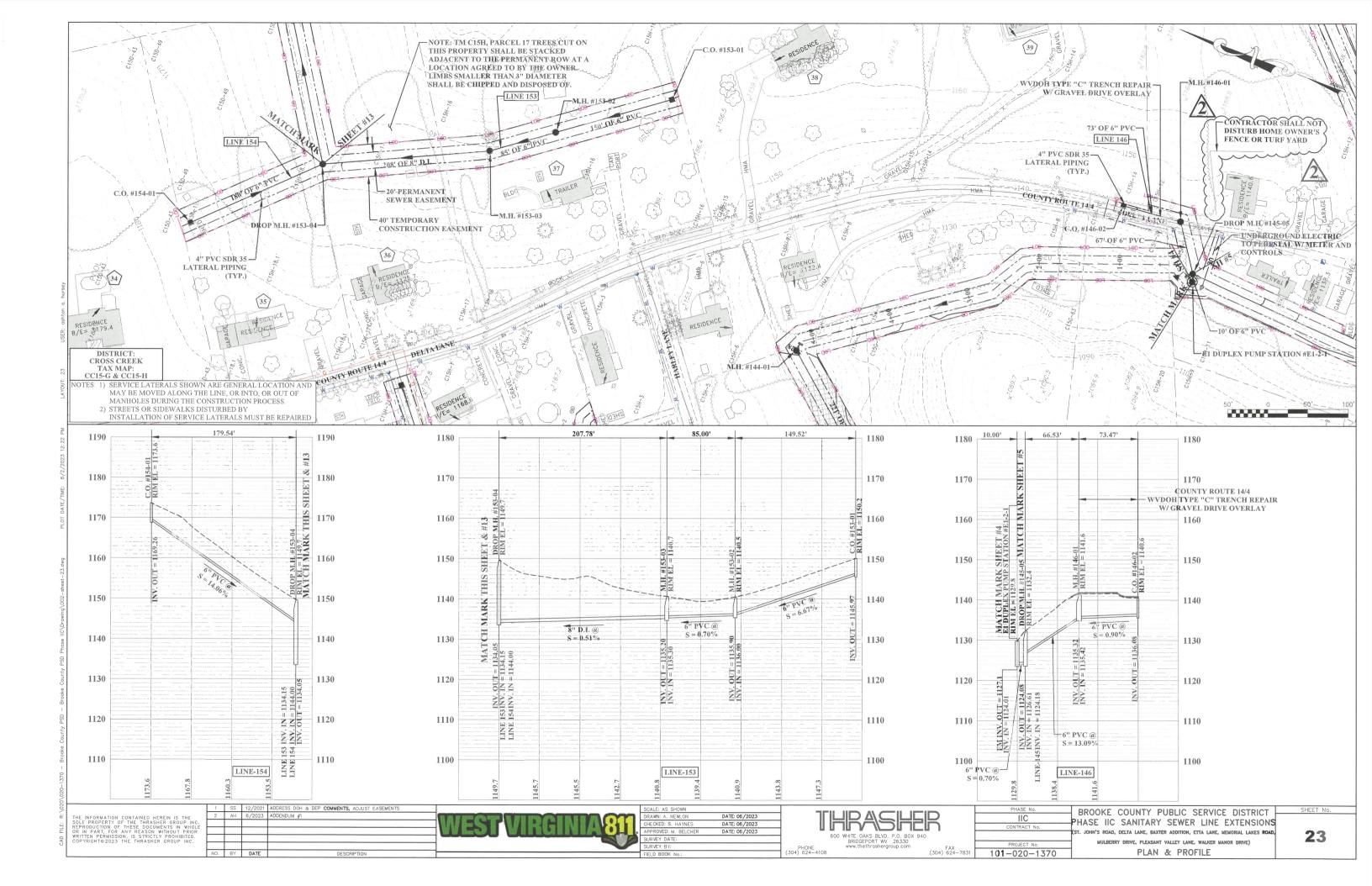
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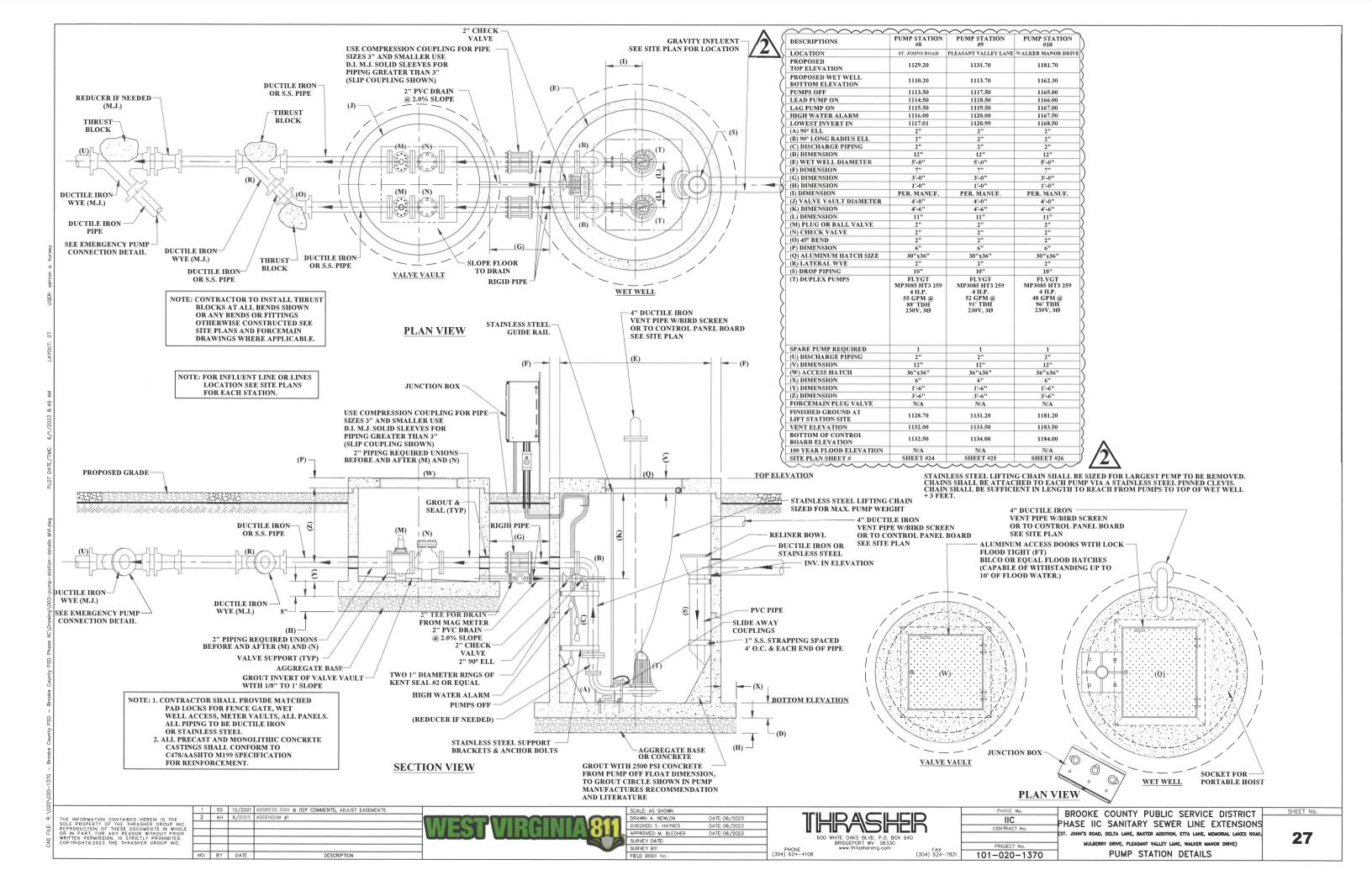
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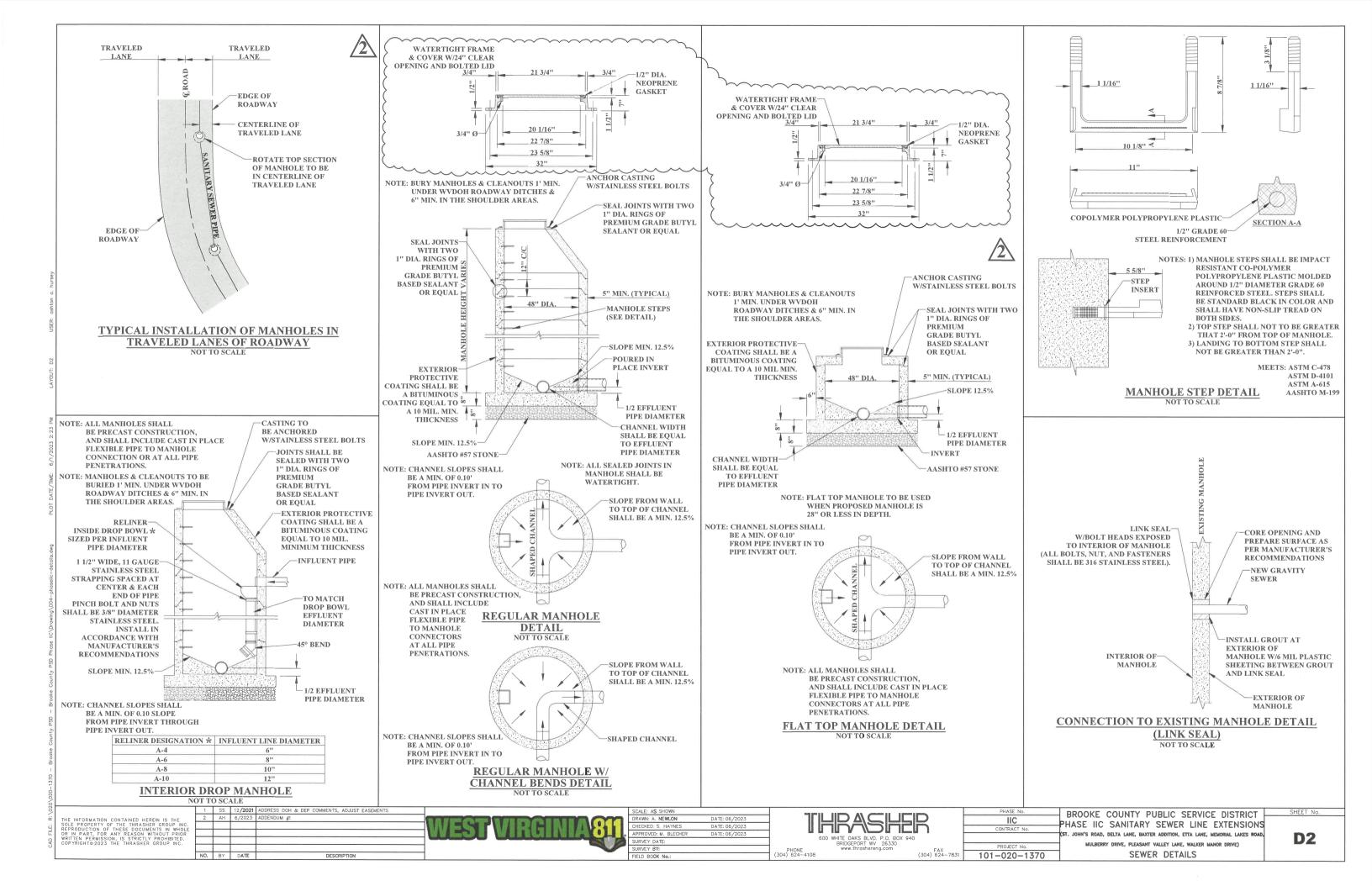
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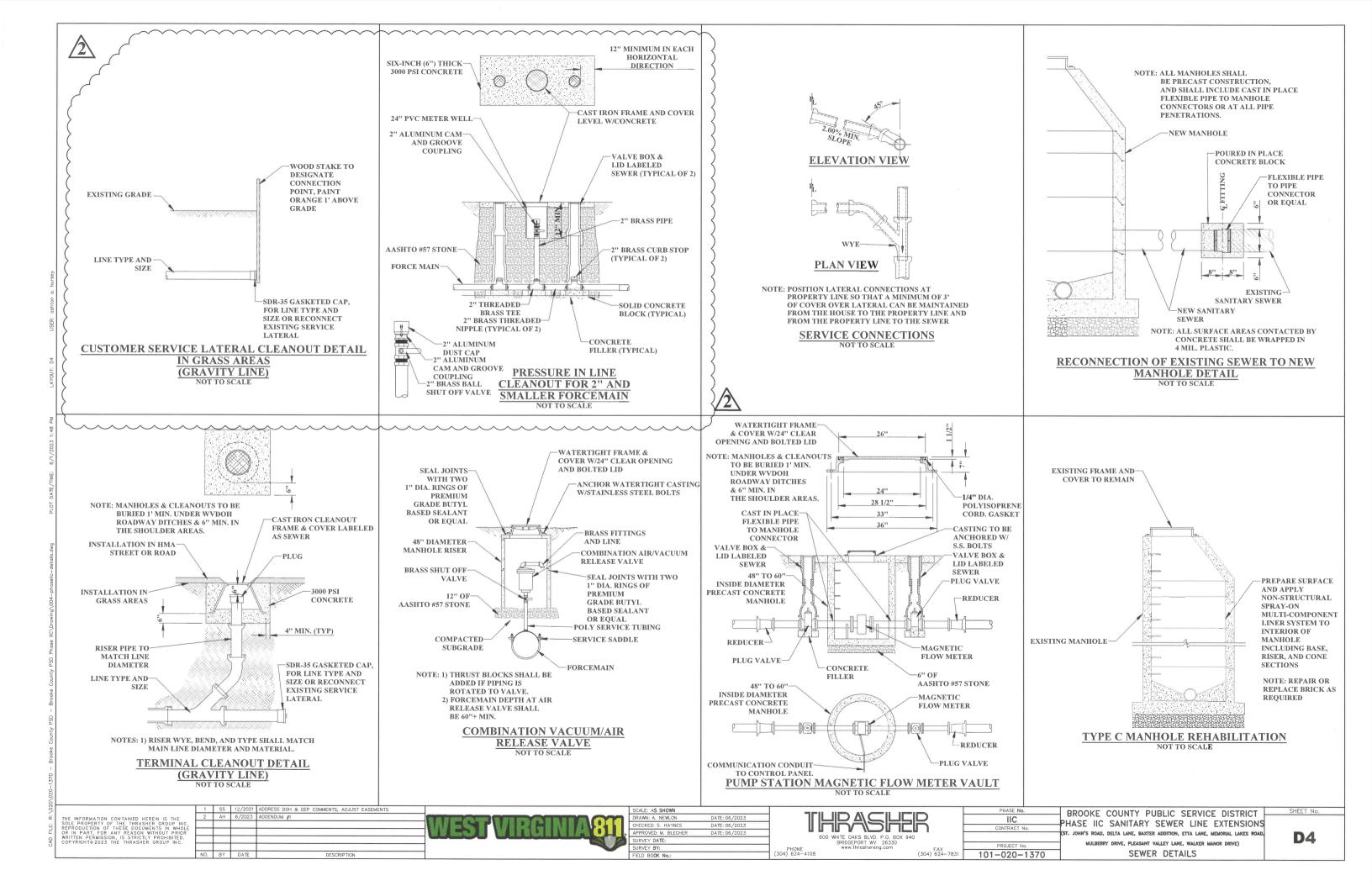
BROOKE COUNTY PUBLIC SERVICE DISTRICT PHASE IIC SANITARY SEWER LINE EXTENSIONS
(ST. JOHN'S ROAD, DELTA LANE, BAXTER ADDITION, ETTA LANE, MEMORIAL LAKES ROAD,
MULBERRY DRIVE, PLEASANT VALLEY LANE, WALKER MANOR DRIVE)
PLAN & PROFILE

16A









WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS (WVDOH) - GENERAL NOTES (PROVIDED BY WVDOH)

- ALL METER SETTINGS ACROSS PAVED ROADS SHALL BE BORED OR MOLED UNLESS OPEN CUT HAS BEEN APPROVED BY WVDOH AND SPECIFICALLY INDICATED ON PLANS.
- NOTIFICATION OF PROPOSED EXCAVATION, DEMOLITION OR ANY OTHER EARTH DISTURBING ACTIVITIES ARE REQUIRED TO BE PLACED TO THE MISS UTILITY OF WEST VIRGINIA (1-800-245-4848) NOT LESS THAN FORTY-EIGHT (48) BUSINESS HOURS BEFORE ANY SUCH WORK IS
- BEDDING SHALL BE PLACED ON ASPHALT SURFACE TO PROTECT WHEN A TRENCHER OR TRACKED VEHICLE IS USED.
- THE WVDOH PUBLICATION "STANDARD SPECIFICATIONS ROADS AND BRIDGES" AND "ACCOMMODATIONS OF UTILITIES ON HIGHWAY OF RIGHT OF WAY" LATEST EDITIONS ARE A PART OF THE PROJECT SPECIFICATIONS AND WILL BE ADHERED TO BY THE CONTRACTOR.
- ALL DAMAGE TO ROAD SURFACES SHALL BE REPAIRED ACCORDING TO WYDOH STANDARD SPECIFICATIONS AND DETAILS.
- ALL EXISTING DUMP ROCK OR RIP RAP DITCHES DISTURBED BY THE UTILITY/CONTRACTOR SHALL BE RESTORED WITH THE SAME SIZE, GRADE, AND QUALITY OF THE ROCK AFTER THE UTILITY HAS BEEN INSTALLED. NEW DUMP ROCK IS TO BE PLACED IN ALL LOCATIONS WHERE THE DITCH LINE IS GREATER THAN 5% AND THERE IS NO EXISTING RIP RAP.
- TRAFFIC CONTROL SHALL CONFORM TO THE WVDOH PUBLICATION "TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATION" LATEST EDITION. THE CONTRACTOR SHALL PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN FOR THE DIVISION'S APPROVAL AND SHALL IMPLEMENT THE TRAFFIC CONTROL PLAN.
- ALL BACKFILL MATERIAL AND COMPACTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THE "ACCOMMODATIONS OF UTILITIES ON HIGHWAY RIGHT OF WAY AND ADJUSTMENT AND RELOCATION OF UTILITY FACILITIES ON HIGHWAY PROJECTS" AND SUBJECT TO WYDOH APPROVAL. EVIDENCE OF PROPER COMPACTION BY TESTING WILL BE THE RESPONSIBILITY OF THE APPLICANT. THE TESTING SHALL BE 1 (ONE) PER DAY OR EVERY 500 LINEAL FEET (LF), OR AS DETERMINED BY THE DISTRICT MANAGER (ENGINEER) OR AUTHORIZED REPRESENTATIVE.
- UTILITY LINES SHALL BE PLACED EITHER AROUND OR UNDER DRAINAGE CULVERTS.
- O AGGREGATE SHOULDER STONE SHALL BE PLACED ON THE SHOULDER AT A THICKNESS FOUAL TO 6 INCHES OR ITS ORIGINAL THICKNESS, WHICHEVER IS GREATER. PAVED SHOULDERS WILL
- 11. MAGNETIC MARKING TAPE SHALL BE INSTALLED AT A DEPTH OF 12 TO 18 INCHES BELOW THE SURFACE AND DIRECTLY ABOVE ALL LINES OR PIPE.
- 12. REPAIR TO DRIVEWAYS ON WVDOH RIGHTS-OF-WAY SHALL CONFORM TO THE APPROPRIATE WVDOH TYPICAL REPAIR DETAIL.
- 3. CLEANUP WILL BE ACCOMPLISHED DAILY. ALL CULVERTS AND DRAINAGE DITCHES SHALL BE OPEN AND MAINTAINED DURING CONSTRUCTION. SHOULDERS WILL BE RESTORED AND STABILIZED DAILY WITH THE APPROPRIATE STONE AT THE DISCRETION OF THE WVDOH
- 4. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED WITHIN SEVEN (7) DAYS OF COMPLETION OF THE BACKFILL OPERATION.
- 5.NO EXCESS EXCAVATION MATERIAL SHALL BE WASTED ON WVDOH RIGHTS- OF-WAY WITHOUT THE AGREEMENT OF THE WVDOH.
- 16. THE WVDOH RESERVES THE RIGHT TO RELOCATE UTILITY LINES AND FACILITIES AS DEEMED NECESSARY.
- . THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN UTILITY LOCATIONS AND PERFORMING EXPLORATORY WORK TO DETERMINE SUBSURFACE MATERIALS AND STRUCTURES THAT MAY AFFECT ITS WORK.
- 8. PRIOR TO THE START OF ANY WORK WITHIN STATE HIGHWAY RIGHTS-OF-WAY, THE CONTRACTOR SHALL GIVE WVDOH 48 HOUR NOTICE.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR ANY OFFSITE DISPOSAL REQUIRED. DISPOSAL SHALL BE TO AN ACCEPTABLE LEGAL SITE. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL AT DISPOSAL SITES.
- 20. ALL ELEVATIONS GRADES AND DISTANCES SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE PRIOR TO CONSTRUCTION.
- 21.ALL CONSTRUCTION SHALL MAINTAIN 5' FROM EDGE OF PAVEMENT OR BOTTOM OF DITCH UNLESS NO OTHER PRACTICAL MEANS OF CONSTRUCTION EXISTS.
- 2. PERFORM ACCEPTABLE REPAIR OF ANY AND ALL SUB-BASE FAILURES THAT ARE CAUSED BY THE CONTRACTOR OPERATION ON A DAILY BASIS.
- 23. PERFORM TOTAL REPAIR AND/OR REPLACEMENT OF ANY DAMAGED ASPHALT SURFACE AS DETERMINED BY THE WVDOH REPRESENTATIVE.
- 4. PRIOR TO ANY CONSTRUCTION, THE ENGINEER SHALL MAKE A COMPLETE VIDEO SHOWING THE ROAD SURFACE OF THE ENTIRE PROJECT, OF ROADS TO BE UTILIZED IN THE CONSTRUCTION OF THE PROJECT AND PRESENT IT TO THE WVDOH UTILITY DEPARTMENT SUPERVISOR.
- 25. REMOVE DITCH-LINE OBSTACLES AND/OR RECONSTRUCTION OF THE DITCH-LINE
- 26.IN THE CASE OF MANHOLES OR VALVES, THEY SHALL BE PLACED OUTSIDE OF THE ROADWAY, SHOULDER, OR DITCH-LINE. IF PLACED IN THE SHOULDER, THERE IS TO BE A MINIMUM OF 6 INCHES OF COVER. IN THE DITCH-LINE THERE IS TO BE 12 INCHES OF COVER BETWEEN THE MANHOLE AND THE INVERT OF THE DITCH.
- 7. ANY MANHOLES OR VALVES OR VALVE BOXES PLACED IN THE ROADWAY WILL BE ON THE SAME PLANE AS THE ROADWAY AND SET FLUSH WITH ROADWAY.
- 28 ANY ROADS REQUIRING AN HOT LAID BITUMINOUS CONCRETE OVERLAY. FULL WIDTH OR PARTIAL, SHALL HAVE THE SHOULDER STONE FROM AN APPROVED SOURCE PLACED AS PER
- 29. WVDOH REQUIRES THERE BE NO WORK WITHIN THE DIVISION'S RIGHTS-OF-WAY DURING SNOW AND ICE REMOVAL (SRIC). THERE MAY BE EXCEPTIONS FOR EMERGENCY AND CASE BY CASE SITUATIONS WITH NOTIFICATION TO THE WYDOH.
- 30 IT IS ANTICIPATED THAT OTHER CONTRACTORS WILL RE WORKING IN THIS AREA. AND IT IS IMPERATIVE THAT STRICT COORDINATION BETWEEN CONTRACTORS IS AGREED UPON IN REFERENCE TO LANE CLOSURES, WORKING PLANS AND STORAGE AREAS.

GENERAL NOTES

- 1 WVDOH "STANDARD SPECIFICATION ROADS AND BRIDGES." WITH SUPPLEMENTS. EDITION AS OF PROJECT ADVERTISEMENT DATE, IS HEREBY INCORPORATED INTO THE PROJECT SPECIFICATIONS FOR WORK WITH WVDOH RIGHTS-OF-WAY AND/OR WHERE "WEST VIRGINIA DIVISION OF HIGHWAYS," "WVDOH," OR SIMILAR REFERENCES ARE MADE IN THE PLANS AND/OR SPECIFICATIONS.
- A. PRICE ADJUSTMENTS FOR FUELS AND/OR ASPHALT WILL NOT BE MADE IN ACCORDANCE WITH SECTIONS 109.9 AND 109.10, RESPECTIVELY.
- B. COMPACTION TESTING SHALL BE PERFORMED AS DIRECTED BY WVDOH OR THE ENGINEER IN ACCORDANCE WITH SECTION 670 4 5
- C. PAYMENT SHALL BE MADE IN ACCORDANCE WITH THE MEASUREMENT AND PAYMENT SECTION OF THE PROJECT SPECIFICATIONS RATHER THAN WVDOH MEASUREMENT AND PAYMENT SPECIFICATIONS.
- 2. ALL UNDERGROUND UTILITIES DEPICTED IN THE PLANS ARE SHOWN AT APPROXIMATE LOCATIONS BASED ON THE BEST AVAILABLE INFORMATION. EXACT LOCATIONS, DEPTHS, MATERIALS, AND SIZES OF ALL EXISTING PUBLIC AND/OR PRIVATE UTILITIES IN THE PROJECT AREA SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR WITH A REPRESENTATIVE OF THE APPROPRIATE PURLIC AND/OR PRIVATE UTILITY. CONTRACTOR SHALL NOTIFY THE 811 SYSTEM AT 1-800-245-4848 OR 811 OR WV811.COM AND SHALL HAVE ALL UTILITIES MARKED IN THE PROJECT AREA PRIOR TO COMMENCING EXCAVATION
- 3. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE STANDARDS AND SPECIFICATIONS PROVIDED IN A SEPARATE BOUND VOLUME.
- 4. CONFIRM ALL DIMENSIONS AND ELEVATIONS PRIOR TO ORDERING MATERIALS
- 5. NEATLY SAWCUT ALL HOT MIXED ASPHALT AND/OR PORTLAND CEMENT CONCRETE PAVEMENTS PRIOR TO AND AS PART OF EXCAVATION.
- 6. ALL CONSTRUCTION SHALL BE PERFORMED IN THE PERMITTED PUBLIC RIGHTS-OF-WAY AND THE PERMANENT RIGHTS-OF-WAY AND TEMPORARY CONSTRUCTION EASEMENTS OBTAINED FOR THE PROJECT ARE DEPICTED IN THE

IF WORK IS DEPICTED OUTSIDE OF THESE RIGHTS - OF - WAY AND/OR EASEMENTS, PRESCRIPTIVE RIGHTS HAVE BEEN ASSUMED BY THE PROJECT OWNER. AT THOSE LOCATIONS THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER(S) AT LEAST ONE (1) WEEK IN ADVANCE OF THE PLANNED WORK

- 7. ALL TREES AND VEGETATION WITHIN TEMPORARY CONSTRUCTION EASEMENT LIMITS SHALL BE CLEARED (AND GRUBBED IF SO SPECIFIED) UNLESS THE PROPERTY OWNER INDICATES IN WRITING THAT CERTAIN TREES ARE TO REMAIN AND THAT THE PROPERTY OWNER WILL ASSUME ALL RESPONSIBILITIES FOR REMOVAL OF THE TREES IN THE FUTURE. ANY SUCH LETTER FROM THE OWNER SHALL BE SUBMITTED TO THE ENGINEER FOR THE RECORD
- 8. WHEN A DISCREPANCY IN THE DRAWINGS AND/OR SPECIFICATIONS SEEMS APPARENT, THE MATTER SHALL BE REVIEWED WITH THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 9. EXCEPT AS NOTED BELOW, THE OWNER HAS OBTAINED ALL APPLICABLE PERMITS FOR THE PROJECT. COPIES OF THE PERMITS SHALL BE PROVIDED TO THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE

CONTRACTOR SHALL OBTAIN ALL BUILDING PERMITS AND PAY ALL FEES ASSOCIATED WITH LOCAL AND STATE CONTRACTOR'S LICENSES AS WELL AS BUSINESS AND OCCUPATION TAXES, AS APPLICABLE.

- 10. COORDINATE ALL STREAM CROSSINGS SO AS NOT TO DELAY CONSTRUCTION. PERFORM STREAM CROSSINGS IN ACCORDANCE WITH THE PERMITS DURING TIMES OF LOW FLOW AND NON-SPAWNING SEASON (APRIL THROUGH JUNE)
- 11. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL PROVIDE ALL STAGING AND STORAGE AREAS AND WASTE AREAS.
- 12. THE LOCATION OF PROPERTY LINES DEPICTED IN THE PLANS ARE APPROXIMATE BASED ON COUNTY TAX MAPS. WVDOH RIGHTS-OF-WAY ARE APPROXIMATE BASED ON THE RIGHTS-OF-WAY DIMENSIONS PROVIDED BY WVDOH
- 13. EXISTING MANHOLE RIM ELEVATIONS HAVE BEEN FIELD SURVEYED AND MAY DIFFER IN PROFILE FROM THE TOPOGRAPHIC AND CONTOUR DATA OBTAINED BY AERIAL MAPPING

EROSION & SEDIMENT CONTROL PLAN DISCLOSURE AND LIMITATIONS

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH WVDEP AND ANY APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING, BUT NOT LIMITED TO, THE MANNER, DIRECTION, LOCATION, AND CONDITION OF THE WASTE DISPOSAL SITE CHOSEN BY THE CONTRACTOR. ANY NECESSARY PARTS FOR PROPER AND COMPLETE EXECUTION OF WORK PERTAINING TO THIS PLAN, WHETHER SPECIFICALLY MENTIONED OR NOT, ARE TO BE PERFORMED BY THE CONTRACTOR. IT IS NOT INTENDED THAT THE CONTRACT DRAWINGS AND CONTRACT SPECIFICATIONS SHOW EVERY DETAILED PIECE OF MATERIAL OR EQUIPMENT. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS. THE CONTRACTOR MAY BE REQUIRED TO ALTER CONTROLS BASED ON EFFECTIVENESS OF CONTROLS OR DIFFERING SITE CONDITIONS ENCOUNTERED.

DRAWN: A. NEWLON

URVEY DATE

ROVED: M. BLECHE

DATE: 06/2023

DATE: 06/2023

GENERAL NOTES (CONT.)

- 14 CONSTRUCT GRAVITY OR PRESSURE SANITARY SEWERS A MINIMUM OF TEN FEET (10') HORIZONTALLY SEPARATED FROM ANY EXISTING OR PROPOSED WATER LINES. WHEN THE MINIMUM TEN FOOT (10') HORIZONTAL SEPARATION CANNOT BE ACHIEVED, CONSTRUCT THE SANITARY SEWER WITH APPROVED PRESSURE PIPE MEETING THE REQUIREMENTS OF WATER PIPE WITH A MINIMUM OF EIGHTEEN INCHES (18") BETWEEN THE TOP OF THE SANITARY SEWER AND THE BOTTOM OF THE WATER LINE WITH A MINIMUM OF THREE FEET (3') OF HORIZONTAL SEPARATION. PERFORM HYDRAULIC TESTING FOR A MINIMUM OF TWENTY FOUR (24) HOURS. THE MAXIMUM ALLOWABLE LEAKAGE SHALL BE 0.25 GALLONS PER INCH OF PIPE DIAMETER PER JOINT. AIR TESTING MAY ALSO BE USED.
- 15. WHEN CROSSING A WATER LINE, CONSTRUCT GRAVITY OR PRESSURE SANITARY SEWERS WITH A MINIMUM OF EIGHTEEN INCHES (18") BETWEEN THE TOP OF THE SANITARY SEWER AND THE BOTTOM OF THE WATER LINE. WHEN THIS MINIMUM VERTICAL SEPARATION CANNOT BE ACHIEVED, CONSTRUCT THE SANITARY SEWER BETWEEN THE JOINTS OF THE WATER LINE BEING CROSSED UNDER AND BETWEEN JOINTS OF THE SANITARY SEWER. ENCASE THE SANITARY SEWER SO THAT THE CASING EXTENDS A MINIMUM OF TEN FEET (10') ON EACH SIDE OF THE CROSSING. PROVIDE A MINIMUM OF SIX INCHES (6") VERTICAL SEPARATION BETWEEN THE TOP OF THE CASING AND THE BOTTOM OF THE WATER LINE. UNDER NO CIRCUMSTANCES SHALL THE SANITARY SEWER BE CONSTRUCTED OVER THE WATER LINE.
- 16. CONSTRUCT GRAVITY LINES IN REASONABLE CONFORMANCE TO THE DEPTHS AND SLOPES INDICATED IN THE PLANS, BUT IN NO CASE LESS THAN THE PLANNED SLOPE UNLESS OTHERWISE APPROVED BY THE
- 17. THE VIDEO REFERENCED IN WVDOH GENERAL NOTE NUMBER 24 SHALL BE PROVIDED BY THE ENGINEER.

ANTICIPATED CONSTRUCTION SEQUENCE OF EVENTS:

- CONTRACTOR SHALL NOTIFY MISS UTILITY AT 811 OR (1-800-245-4848) FOR EXISTING UTILITY LOCATIONS.
- 2. CONTRACTOR SHALL LOCATE FIELD CONSTRUCTION TRAILER AND OBTAIN TEMPORARY ELECTRICAL AND TELEPHONE SERVICE TO THE SITE.
- 3. CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES.
- ALL TREE CLEARING SHALL TAKE PLACE BETWEEN NOVEMBER 15. 2023 AND MARCH 31, 2024 DUE TO PERMITTING REQUIREMENTS. NO TREE CLEARING MAY TAKE PLACE OUTSIDE OF THE TREE CLEARING WINDOW AND CONTRACTOR'S SCHEDULE SHALL REFLECT THIS REQUIREMENT. THE TREE CLEARING WINDOW WILL NOT BE EXTENDED EVEN IF ADDITIONAL WEATHER DAYS ARE GRANTED.
- CONTRACTOR SHALL BEGIN CONSTRUCTION OF PROPOSED GRAVITY SEWER LINES, PUMP STATIONS, AND ASSOCIATED STRUCTURES.
- CONTRACTOR SHALL CONDUCT ALL NECESSARY TESTING OF NEW GRAVITY SEWER LINES, MANHOLES, AND PUMP STATIONS.
- CONTRACTOR SHALL COMPLETE ALL REQUIRED SURFACE RESTORATIONS INCLUDING PAVEMENT REPAIR, FINAL GRADING, SEEDING AND MULCHING AND CLEANUP OF THE PROJECT AREA.
- 8. CONDUCT FINAL INSPECTIONS.
- COMPLETE PUNCH LIST ITEMS.
- 10. COMPLETE FINAL CLEAN UP.
- 11. SUBMIT ALL REQUIRED DOCUMENTS AND RED LINE DRAWINGS.
- 12. PROJECT CLOSE OUT.

SEWER MATERIAL NOTES

- 1. ALL PVC SEWER LINE SHALL BE ASTM D-3034 SDR-35.
- 2. ALL DUCTILE IRON SEWER PIPE SHALL BE DOUBLE CEMENT LINED CLASS 50 DUCTILE IRON PIPE

EROSION AND SEDIMENT CONTROL NOTES

FURNISH, INSTALL, OPERATE, AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE ONLINE WEST VIRGINIA EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES MANUAL AVAILABLE AT THE FOLLOWING WEBSITE:

HTTP://WWW.DEP.WV.GOV/WWE/PROGRAMS/STORMWATER/CSW/PAGES/ESC_BMP.ASPX

- 2. EROSION AND SEDIMENT CONTROL MEASURES ARE SHOWN IN THE PLANS AND SPECIFICATIONS.
- THE DISTURBED AREA SHALL BE STABLIZED WITH TEMPORARY AND FINAL SEEDING AND MULCHING AS DESCRIBED IN THE SPECIFICATIONS.
- WHERE CONSTRUCTION ACTIVITIES WILL RESUME ON A PORTION OF THE SITE WITHIN FOURTEEN (14) DAYS FROM WHEN ACTIVITIES CEASED. THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILIY CEASED. AREAS WHERE UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF SEVENTY PERCENT (70%) HAS NOT BEEN ESTABLISHED WITHIN THIRTY (30) DAYS AFTER SEEDING AND MULCHING SHALL BE RESEEDED IMMEDIATELY OR AS SOON A WEATHER CONDITIONS ALLOW.
- THE TEMPORARY CONSTRUCTION EASEMENT LIMITS AND EXISTING RIGHTS-OF-WAY LINES DEFINE THE LIMITS OF DISTURBANCE.
- SEE EROSION AND SEDIMENT CONTROL DETAIL SHEETS FOR FURTHER NOTES AND

101-020-1370

IIC

BROOKE COUNTY PUBLIC SERVICE DISTRICT PHASE IIC SANITARY SEWER LINE EXTENSIONS (ST. JOHN'S ROAD, DELTA LANE, BAXTER ADDITION, ETTA LANE, MEMORIAL LAKES ROA

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25-CC19

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LEGEND

EXISTING GUARDRAIL

EXISTING SIGN

EXISTING FIRE HYDRANT

EXISTING WATER VALVE

--- EXISTING GRAVITY SEWER

EXISTING WATER LINE

EXISTING GAS LINE

— PROPOSED FORCEMAIN

EXISTING FENCE

PROPOSED FENCE

FDGF OF WATER

TEXTS THE LINE

EXISTING SPOT ELEVATION

© EXISTING GRAVITY MANHOLE

PROPOSED SPOT ELEVATION

PROPOSED GRAVITY MANHOLE

PROPOSED GRAVITY CLEANOUT

PROPOSED FORCEMAIN AIR/VAC RELEASE

PROPOSED FORCEMAIN PRESSURE INLINE

PROPOSED UNDERGROUND ELECTRICAL

PROPOSED OVERHEAD ELECTRIC

PROPOSED LAND OF DISTURBANCE

CONSTRUCTION EASEMENT / LOD

EXISTING PROPERTY LINE

PROPOSED BELTED SILT

RETENTION FENCE

PROPOSED TEST PIT

ROW NUMBERS

PUBLIC NOTICE SIGN

PROPOSED PROPERTY LINE

PROPOSED STONE CHECK DAM

STREAM BANK SLOPE PROTECTION

PROPOSED INLET PROTECTION

EXISTING PROPERTY INFORMATION

STONE CONSTRUCTION ENTRANCE

PROPOSED SANITARY SEWER PERMANENT

RIGHT OF WAY PROPOSED SANITARY SEWER TEMPORARY

PROPOSED EROSION CONTROL MATTING

EXISTING ROAD RIGHT OF WAY

PROPOSED BORE PIT

EXISTING STORM DRAIN

---- EXISTING CONTOUR

× 1652.2

1681.0

-(1660) PROPOSED CONTOUR

VALVE

CLEANOUT

CONDUIT

PROPOSED GRAVITY SEWER

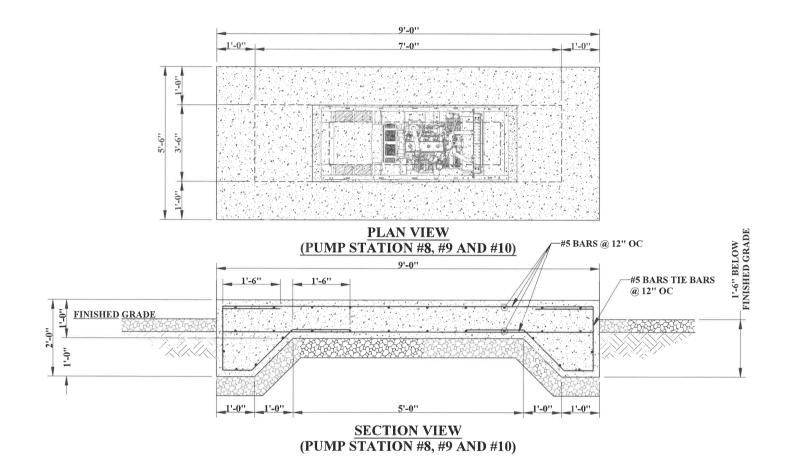
EXISTING TELEPHONE/ELECTRIC POLE

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PHONE (304) 624-4108

MULBERRY DRIVE, PLEASANT VALLEY LANE, WALKER MANOR DRIVE) PROJECT NOTES

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ADDENDUM #1

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2 AH 6/2023 ADDENDUM #1 (ENTIRE SHEET)

NO. BY DATE DESCRIPTION

WESTVERGINGS

	SCALE: AS SHOWN		
	DRAWN: A. NEWLON	DATE: 06/2023	
	CHECKED: S. HAYNES	DATE: 06/2023	
	APPROVED: M. BLECHER	DATE: 06/2023	
	SURVEY DATE:		
	SURVEY BY:		
	FIELD BOOK No.:		

THRASHER

600 WHITE OAKS BLVD. P.O. BOX 940
BRIDGEPORT WV 26530
PHONE www.throsherong.com FAX

PHASE No.	BROOKE COUNTY PUBLIC SERVICE DISTRICT	_
IIC	PHASE IIC SANITARY SEWER LINE EXTENSIONS	
	(ST. JOHN'S ROAD, DELTA LANE, BAXTER ADDITION, ETTA LANE, MEMORIAL LAKES ROAD,	
PROJECT No.	MULBERRY DRIVE, PLEASANT VALLEY LANE, WALKER MANOR DRIVE)	
101-020-1370	GENERATOR PAD DETAIL	

27E