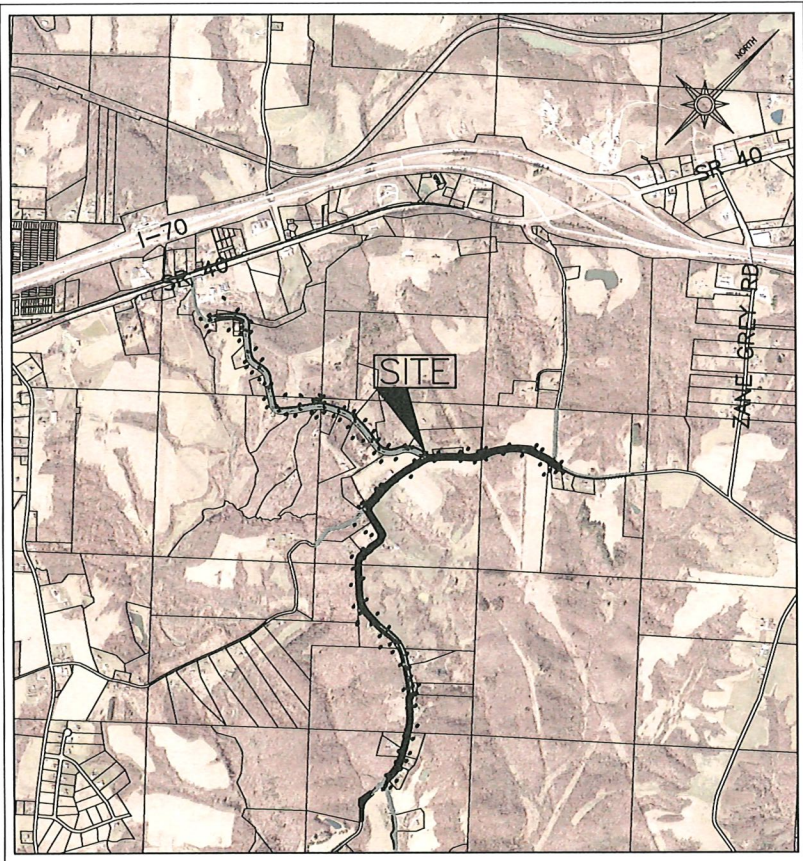




# URBAN HILL WATERLINE EXTENSION

## PERRY TOWNSHIP MUSKINGUM COUNTY, OHIO

URBAN HILL  
THE DESIGN OF A WATERLINE EXTENSION




INDEX OF SHEETS:

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NOTE TO PROJECT CONTRACTOR:  
ALL SITE IMPROVEMENTS ARE SUBJECT TO APPROVAL BY THE PROJECT ENGINEER. THIS POLICY SHALL BE ADHERED TO THROUGHOUT THE LIFE OF THIS SITE IMPROVEMENT PROJECT. ANY AND ALL IMPROVEMENTS THAT ARE NOT APPROVED BY THE PROJECT ENGINEER SHALL BE REMOVED AND REPLACED AT THE DISCRETION OF THE PROJECT ENGINEER, AT NO FURTHER COST TO EITHER THE OWNERS OR THE PROJECT ENGINEER, BY THE CONTRACTOR PERFORMING SAID WORK.

UNDERGROUND UTILITIES

TWO WORKING DAYS  
BEFORE YOU DIG

CALL 1-800-362-2764

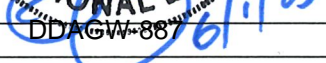
OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY

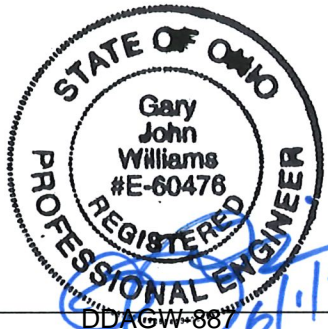
|  |      |
|--|------|
| CINDY S. CAMERON, PRESIDENT<br>MUSKINGUM COUNTY COMMISSIONER | DATE |
| MOLLIE S. CROOKS<br>MUSKINGUM COUNTY COMMISSIONER            | DATE |
| MELISSA J. BELL<br>MUSKINGUM COUNTY COMMISSIONER             | DATE |

PROPERTY OWNER:  
MUSKINGUM COUNTY COMMISSIONERS  
401 MAIN STREET  
ZANESVILLE, OHIO 43701

CONTACT PERSON:  
DON MADDEN, PROJECTS DIRECTOR  
401 MAIN STREET  
ZANESVILLE, OHIO 43701  
(740) 588-4389



SIGNED:   
DATE: 08/28/2023



Mark J. Eicher, P.E., P.S.  
155 Rehl Road  
Zanesville, Ohio 43701  
ENGINEER'S OFFICE 740-454-0155

  
Muskingum County  
ENGINEER'S OFFICE

URBAN HILL WATERLINE EXTENSION  
TITLE SHEET

URBAN HILL  
ZANESVILLE, OHIO 43701

PLANS APPROVED BY:  
MJE

PLANS PREPARED BY:  
HJ

DATE:  
04/18/2023

REVISED:

SHEET SIZE:  
11" x 17"

SHEET NAME:  
TITLE SHEET

SHEET NUMBER:  
01  
42





LIGHT POLE



LIGHT/POWER POLE



POWER POLE



POWER POLE



TELECOM POLE



LIGHT/TELECOM POLE



TELECOM/LIGHT/POWER POLE



UNKNOWN POLE



SIGN POLE



GUY WIRE ANCHOR



CELLPHONE TOWER



EXISTING TOWER



HALF HEADWALL



HEADWALL



EXISTING FIRE HYDRANT



PROPOSED FIRE HYDRANT



EXISTING WATER GATE VALVE



PROPOSED WATER GATE VALVE



EXISTING WATER METER



PROPOSED WATER METER



EXISTING WATER MANHOLE



PROPOSED WATER MANHOLE



EXISTING CATCH BASIN NO. 2 - 2B



PROPOSED CATCH BASIN NO. 2 - 2B



EXISTING GAS METER



PROPOSED GAS METER



EXISTING GAS MANHOLE



PROPOSED GAS MANHOLE



EXISTING GAS VALVE



PROPOSED GAS VALVE



EXISTING GAS SERVICE STOP



PROPOSED GAS SERVICE STOP



EXISTING GAS LINE VENT



EXISTING SANITARY SEWER MANHOLE



PROPOSED SANITARY SEWER MANHOLE



EXISTING SEPTIC TANK



PROPOSED SEPTIC TANK



EXISTING SEWER PUMP STATION



EXISTING SANITARY SEWER VALVE



PROPOSED SANITARY SEWER VALVE



EXISTING SANITARY SEWER LINE VENT



CLEAN OUT



EXISTING ELECTRIC RISER/PULL BOX



PROPOSED ELECTRIC RISER/PULL BOX



EXISTING ELECTRIC METER



PROPOSED ELECTRIC METER



EXISTING ELECTRIC MANHOLE



PROPOSED ELECTRIC MANHOLE



EXISTING TELECOM MANHOLE



PROPOSED TELECOM MANHOLE



EXISTING TELEPHONE PEDESTAL



PROPOSED TELEPHONE PEDESTAL



EXISTING UNKNOWN PULL BOX



EXISTING UNKNOWN MANHOLE



EXISTING UNKNOWN UTILITY VALVE



PLUG VALVE



STOP CHECK VALVE



EXISTING MAILBOX



PROPOSED MAILBOX



MAILBOX



EXISTING TREE



EXISTING EVERGREEN TREE



EXISTING SHRUB



EXISTING STONE FOUND



EXISTING LARGE ROCK



GRINDER PUMP



SPRING DEVELOPED



SIGNAL PEDESTAL



PRIVATE/PUBLIC SIGN

| LINE TYPES    |                                |
|---------------|--------------------------------|
| —V—V—V—       | PROPOSED WATER                 |
| —UG—UG—UG—    | UNDERGROUND ELECTRIC           |
| —UGT—UGT—UGT— | UNDERGROUND TELECOM            |
| —AFM—         | ABANDONED FORCEMAIN            |
| —FM—          | FORCEMAIN                      |
| —             | EXISTING UNDER DRAIN           |
| —G—G—G—G—     | GAS LINE                       |
| —W—W—W—W—     | WATER LINE                     |
| —E—E—E—E—     | ELECTRIC LINE                  |
| —U—U—U—U—U—   | UTILITY LINE                   |
| —S—S—S—S—S—S— | SANITARY LINE                  |
| —F—F—F—F—F—F— | FENCE                          |
| —V—V—V—V—V—V— | VEGETATION                     |
| —X—X—X—X—X—X— | EXISTING FENCE                 |
| —R/W—         | EXISTING RIGHT OF WAY          |
| —XL/A—XL/A—   | EXISTING LIMITED ACCESS        |
| —XRR—         | EXISTING RAILROAD RIGHT OF WAY |
| —S/W—S/W—     | PROPOSED EASEMENT              |
| —ST—ST—ST—    | EXISTING STORM LINE            |
| —             | EXISTING SIDEWALK              |
| —             | SHOULDER ASSOCIATE             |



08/28/2023

Mark J. Eicher, P.E., P.S.  
155 Rehl Road  
Zanesville, Ohio 43701  
740-454-0155

PREPARED BY:  
Mark J. Eicher, P.E., P.S.

PROJECT NAME:  
URBAN HILL WATER EXTENSION  
SYMBOLS & LINE STYLES LEGEND

PROJECT LOCATION:  
URBAN HILL  
ZANESVILLE, OHIO 43701

PLANS APPROVED BY:  
MJE

PLANS PREPARED BY:  
HJ

DATE:  
04/18/2023

REVISED:

SHEET SIZE:  
11" x 17"

SHEET NAME:  
SYMBOLS & LINE STYLES  
LEGEND

SHEET NUMBER:  
02  
42



GENERAL NOTES

THE CONTRACTOR SHALL NOTIFY THE COUNTY ENGINEER'S OFFICE, TELEPHONE (740) 454-0155 FORTY EIGHT (48) HOURS PRIOR TO COMMENCING WORK ON THE PROJECT, HOLIDAYS AND WEEKENDS EXCLUDED.

AT THE TIME OF THE BID OPENING EACH BIDDER WILL BE PRESUMED TO HAVE INSPECTED THE SITE AND TO HAVE READ AND TO BE THOROUGHLY FAMILIAR WITH THE PLANS AND CONTRACT DOCUMENTS.

ALL PROPERTY LINE MARKERS (IRON PINS, SPIKES, CONCRETE MONUMENTS, ETC.) THAT ARE DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE REFERENCED AND PROPERLY RESET FOLLOWING CONSTRUCTION UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL SURVEYOR OF THE STATE OF OHIO AT THE CONTRACTOR'S EXPENSE.

ALL MANUFACTURED MATERIALS USED FOR THIS PROJECT MUST BE DOMESTIC AND MADE IN THE U.S.A

ALL SHOP DRAWINGS MUST BE APPROVED BY MUSKINGUM COUNTY WATER DEPARTMENT.

MUSKINGUM COUNTY WATER DEPARTMENT IS TO HAVE AN INSPECTOR ON THE JOB SITE AT ALL TIMES WHEN THE CONTRACTOR IS WORKING.

SPECIFICATIONS:

THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS DATED JANUARY 2016, INCLUDING ALL SUPPLEMENTS THERETO IN FORCE ON DATE OF CONTRACT SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS OR BY THE LATEST EDITION OF THE AWWA STANDARDS, SHALL APPLY AS NEEDED AND ARE HEREBY CONSIDERED A PART OF THESE PLANS.

PERMITS:

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND HAVE IN HIS POSSESSION AN APPROVED AND SIGNED SET OF CONSTRUCTION DRAWINGS. WITHOUT THE REQUIRED PERMITS AND AN APPROVED SET OF PLANS, CONSTRUCTION WILL NOT BE PERMITTED.

TREES:

TREES ENCOUNTERED DURING CONSTRUCTION OUTSIDE THE RIGHT-OF-WAY LIMITS SHALL BE REMOVED ONLY WHEN NECESSARY AND COSTS OF SAME SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS.

SAFETY REQUIREMENTS:

THE CONTRACTOR AND SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK

MISCELLANEOUS WORK:

ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF SAME SHALL BE INCLUDED IN THE PRICE FOR VARIOUS RELATED ITEMS. IF NO SCHEDULE OF VALUES IS PROVIDED ALL ITEMS OF WORK INDICATED ON THE PLANS ARE TO BE PERFORMED WITH FULL COMPENSATION TO BE INCLUDED IN THE CONTRACT AMOUNT.

FIELD TILE:

ALL FIELD TILE BROKEN DURING EXCAVATION SHALL BE REPLACED TO ORIGINAL CONDITION OR CONNECTED TO EITHER THE CURB SUB DRAIN OR THE STORM SEWER SYSTEM AS DIRECTED BY THE ENGINEER.

SURPLUS EXCAVATION:

THE CONTRACTOR SHALL DISPOSE ALL SURPLUS EXCAVATION OFFSITE.

TRAFFIC CONTROL:

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE "OHIO MANUAL OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS." COPIES OF WHICH ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC, 25 S. FRONT STREET, COLUMBUS, OHIO 43215.

TWO -WAY TRAFFIC MUST BE MAINTAINED AT ALL TIMES.

ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR VARIOUS ITEMS.

EROSION CONTROL:

EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF OHIO'S STANDARDS FOR STORM WATER MANAGEMENT LAND DEVELOPMENT AND URBAN STREAM PROTECTION MANUAL "RAINWATER AND LAND DEVELOPMENT"

TRACKING OR SPILLAGE OF MUD, DIRT, OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS, OR BIKE PATHS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED IMMEDIATELY.

THE PROJECT SITE SHALL BE FREE OF ALL DEBRIS AND MATERIALS RESULTING FROM THIS OPERATION AND ALL SURFACES, STRUCTURES, DITCHES, AND PROPERTY RESTORED TO ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER.

EXISTING UTILITIES:

THE IDENTITY AND LOCATION OF THE EXISTING UNDERGROUND UTILITY FACILITIES KNOWN TO BE LOCATED IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE PLANS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UTILITY. THE ENGINEER ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR DEPTHS OF THE UNDERGROUND FACILITIES SHOWN ON THE PLANS, OR THE EXISTENCE OF UTILITIES NOT INDICATED ON THE PLANS.

SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES BOTH PUBLIC AND PRIVATE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS. ANY UTILITY DISTURBED OR DAMAGED SHALL BE REPAIRED AND/OR RESTORED, AS A MINIMUM, TO THE CONDITION THAT EXISTED PRIOR TO THIS CONSTRUCTION, UNLESS DIRECTED OTHERWISE BY THE OWNER OR HIS REPRESENTATIVE.

THE CONTRACTOR SHALL CAUSE NOTICE TO BE GIVEN TO THE OHIO UTILITIES PROTECTION SERVICES (800) 362-2764 AND TO THE OWNERS OF THE UTILITY FACILITIES SHOWN ON THE PLAN WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE REVISED CODE. THE ABOVE MENTIONED NOTICE SHALL BE GIVEN AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

NON-RUBBER TIRED VEHICLES:

NO NON-RUBBER TIRED VEHICLES SHALL BE MOVED ON ANY STREET. EXCEPTIONS MAY BE GRANTED WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. REQUEST FOR AN EXCEPTION MUST BE MADE IN WRITING AND ANY DAMAGE OCCURRING SHALL BE REPAIRED TO THE SATISFACTION OF AND AT NO ADDITIONAL COST TO THE OWNER.

WATER WITHDRAWAL REGISTRATION:

THE OHIO DEPARTMENT OF NATURAL RESOURCES REQUIRES A WATER REGISTRATION WHERE SURFACE OR GROUNDWATER IS WITHDRAWN AT A RATE GREATER THAN 100,000 GALLONS PER DAY. THE CONTRACTOR WILL BE REQUIRED TO APPLY FOR AND SUBMIT THE REQUIRED FORM.

STREET, STORM AND WATER NOTES

PERMITS:

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND HAVE IN HIS POSSESSION AN APPROVED AND SIGNED SET OF CONSTRUCTION DRAWINGS. WITHOUT THE REQUIRED PERMITS AND AN APPROVED SET OF PLANS, CONSTRUCTION WILL NOT BE PERMITTED.

UNAUTHORIZED STREET EXCAVATION:

IN THE EVENT EXCAVATION FOR THE STREET IS FROM 0" TO 6" BELOW THAT CALLED FOR THE PLANS, THE CONTRACTOR SHALL REPLACE THIS EXCESS EXCAVATED MATERIAL WITH COMPACTED 304 CRUSHED LIMESTONE AGGREGATE AS DIRECTED AND AT NO EXTRA COST TO THE OWNER OR ENGINEER.

BACK FILL - STORM SEWERS AND WATER MAINS:

WHERE THE STORM SEWER AND/OR WATER MAINS AND WATER SERVICES CROSS PROPOSED PAVEMENT, THE TRENCH SHALL BE BACK FILLED WITH COMPACTED GRANULAR MATERIAL, ITEM 603.08, AND SHALL BE COMPACTED IN 8-INCH LIFTS, FROM THE BOTTOM OF THE TRENCH TO A PLANE SIX INCHES (6") BELOW THE SUBGRADE. THE LIMITS OF PLACEMENT SHALL BE 5 FEET FROM THE EDGE OF PAVEMENT. WHERE THE STORM SEWER AND/OR WATER MAINS RUN PARALLEL WITH THE CENTERLINE OF THE STREET, BACK FILL SHALL BE COMPACTED USING GRANULAR BACK FILL FROM THE BOTTOM OF THE TRENCH TO WITHIN 6" OF THE FINISHED OR EXISTING GRADE (ALL OTHER TRENCH BACK FILL SHALL BE COMPACTED IN 12-INCH LAYERS, LOOSE MEASUREMENT; COMPACTION SHALL BE AT LEAST THE DENSITY OF THE SURROUNDING GROUND).

STRUCTURAL BACKFILL, BACKFILL OCCURRING UNDER PAVEMENT, SHALL MEET THE REQUIREMENTS OF ODOT SPECIFICATION 603.09. COMPACTION TESTING TO VERIFY COMPACTION SHALL BE PAID FOR BY THE "OWNER". ANY BACKFILL WHICH FAILS TO MEET THESE REQUIREMENTS SHALL BE REPLACED AND/OR RE-COMPACTED AND RETESTED AT THE EXPENSE OF THE CONTRACTOR.

ROADSIDE SWALE RESTORATION:

WHERE WATER LINE INSTALLATION DISTURBS EXISTING ROADSIDE SWALES, CONTRACTOR SHALL BE REQUIRED TO RESTORE ROADSIDE SWALES TO PRECONSTRUCTION CONDITIONS FOLLOWING INSTALLATION. COST FOR RESTORATION TO BE INCLUDED IN THE UNIT PRICE FOR WATER LINE.

WATER MAINS:

ALL WATER LINE MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE MUSKINGUM COUNTY WATER AUTHORITY CURRENT RULES AND REGULATIONS. ALL WATER LINE MATERIAL 10 INCH DIAMETER OR LESS SHALL BE PVC AWWA C900, DR-18. IN CASE OF CONFLICT IN GRADE BETWEEN WATER LINES AND STORM SEWERS, THE WATER LINES SHALL BE LOWERED DURING CONSTRUCTION.

BACKFILL GROUND OVER THE TOP OF THE PIPE SHALL BE FREE OF ROCKS, ORGANIC REFUSE OR OTHER OBJECTIONABLE MATERIAL. SEE BACKFILL NOTE ABOVE. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR CONDUCTING PRESSURE AND LEAKAGE TESTS AT A PRESSURE OF 150 PSI IN ACCORDANCE WITH AWWA C600. THE NORMAL WORKING PRESSURE FOR THE WATER MAIN SHALL BE NOT LESS THAN 35 PSI. ANY TAPPING SLEEVES REQUIRED SHALL BE STAINLESS STEEL, INCLUDING BOLTS AND ACCESSORIES.

CHLORINATION OF WATER MAINS:

THE CONTRACTOR SHALL BE MADE RESPONSIBLE FOR HAVING THE WATER MAINS CHLORINATED AND TESTED IN ACCORDANCE WITH AWWA SPECIFICATIONS SECTION C651. THE COST OF CHLORINATION SHALL BE INCLUDED IN THE PRICE BID OF THE VARIOUS WATER MAIN ITEMS. THE CONTRACTOR SHALL SUBMIT TWO (2) COPIES OF TEST RESULTS TO THE WATER DEPARTMENT. TABLET CHLORINATION SHALL BE USED, THE TABLETS SHALL BE FIXED TO THE PIPE WITH PERMATEX.

SERVICE CONNECTIONS:

SERVICES SHALL BE MADE USING FORD F-1100 CORPORATION STOPS. VALVE BOXES SHALL BE MUELLER OR BINGHAM-TAYLOR WITH COVERS MARKED "WATER". NO SUBSTITUTION FOR VALVE BOXES WILL BE PERMITTED UNLESS APPROVED BY THE MUSKINGUM COUNTY WATER DEPARTMENT. THE LOCATION OF THE END OF THE SERVICE WILL BE MARKED USING A MINIMUM OF 6 FOOT LONG 4 INCH SQUARE WOOD POLE EXTENDING 3 FEET IN THE GROUND. THE TOP OF THE POLE WILL BE PAINTED BLUE FOR AT LEAST 1 FOOT. SERVICE CONNECTIONS BY CONTRACTOR SHALL BE MADE BY TAPPING THROUGH A SERVICE CLAMP OR SADDLE PROVIDING FULL 360 DEGREE SUPPORT AGAINST THE PIPE. CLAMP AND BOLTS SHALL BE STAINLESS STEEL, WITH MINIMUM 6" BETWEEN BOLT CENTERS. ALL SERVICE LINES MUST GO TO PROPERTY LINE. ALL WATER SERVICE LINES SHALL BE 2" OR LESS, AND SHALL BE 200 PSI C.T.S., TUBING. WATER SERVICE TAP SIZE SHALL BE 3/4". INDIVIDUAL BOOSTER PUMPS SHALL NOT BE ALLOWED FOR ANY INDIVIDUAL SERVICE.

TRACER TAPE:

TRACER TAPE SHALL BE LAID NO LESS THAN 18 INCHES ABOVE THE MAIN LINE PIPE. THE TRACER WIRE SHALL BE MADE OF 12 GAUGE WIRE. TO BE INSTALLED AT ALL MAIN LINE LOCATIONS. TRACER WIRE SHALL ALSO BE LAID WITH ALL SERVICE CONNECTIONS. ALL LOCATE WIRE CONNECTIONS WILL HAVE WATER TIGHT WIRE NUTS

VALVES:

GATE VALVES SHALL COMPLY WITH AWWA C509, IRON BODY, RESILIENT WEDGE VALVES, MANUFACTURED 2500 SERIES AMERICAN FLOW CONTROL. VALVES WILL BE LOCATED CLOSE TO MAIN LINE VALVE, CLOSE RIGHT TEE'S WHEN IN A BRANCH LINE. SUPPLY ONE VALVE WRENCH FOR EACH 10 VALVES INSTALLED. WRENCHES ARE TO BE TURNED OVER TO MUSKINGUM COUNTY WATER DEPARTMENT.

VALVE BOXES:

VALVE BOXES SHALL BE LOCATED WITHIN THE R/W AND 6" FROM THE PROPERTY LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR ORDERED BY THE ENGINEER.

JOINTS:

ALL PVC PIPE SHALL BE PROVIDED WITH PUSH-ON-TYPE WITH A THICKENED BELL AND SHALL CONFORM TO ASTM D 3119 WITH A RUBBER GASKET CONFORMING TO ASTM F477.

FITTINGS:

THE FITTINGS SHALL BE DUCTILE IRON, MADE IN THE UNITED STATES, CONFORMING TO AWWA C153, SHALL BE PROVIDED WITH MECHANICAL JOINT ENDS (WITH RETAINER GLAND) MADE IN ACCORDANCE WITH AWWA C111. ALL C153 FITTINGS SHALL HAVE A BITUMINOUS COATED CEMENT LINING COMPLYING WITH AWWA C104 AND SHALL HAVE AN OUTSIDE COATING COMPLYING WITH AWWA C110. ANCHORAGE METHODS TO BE USED UTILIZING ANCHORING TEES, ELBOWS AND COUPLINGS SHALL BE APPROVED BY THE ENGINEER. FITTINGS SHALL BE EQUIPPED WITH A ROTABLE GLAND OR OTHER METHOD TO FACILITATE VERTICAL POSITIONING OF APPURTENANCES. ALL BENDS SHALL HAVE CONCRETE THRUST BLOCKING. ALL BOLTS SHALL BE FIELD COATED WITH A BITUMINOUS COATING AFTER IN PLACE.

METER PITS:

METER PITS SHALL BE LOCATED AS SHOWN ON THE PLANS, AND SHALL INCLUDE COPPER SETTERS.

METER PITS SHALL BE MIDSTATE 18" X 24".

PIT LID SHALL BE 18" X 24" MIDSTATES PLASTIC LID AND WITH MXV BRACKET.

COPPER SETTER SHALL BE FORD 5/8" X 3/4" VH72-18W-44-33.

FIRE HYDRANTS:

FIRE HYDRANTS SHALL BE 12" HIGH FLOW ONLY. FIRE HYDRANTS OPEN RIGHT, WITH A 6" X 2' ANCHOR COUPLER BETWEEN VALVE AND HYDRANT. ALL FIRE HYDRANTS SHALL BE SET A MINIMUM OF 4' FROM THE EDGE OF THE PAVEMENT, BUT NOT MORE THAN 6' UNLESS OTHERWISE SHOWN. THE BREAKAWAY FLANGE SHALL BE A MINIMUM OF 3" ABOVE GRADE BUT NO MORE THAN 6" ABOVE GRADE. USE CLASS "A" SETTING WHERE APPLICABLE. CUT CHAINS OFF OF ALL HYDRANTS, LUBE THREADS OF CAPS WITH SUPER LUBE GREASE.

MANUFACTURER:

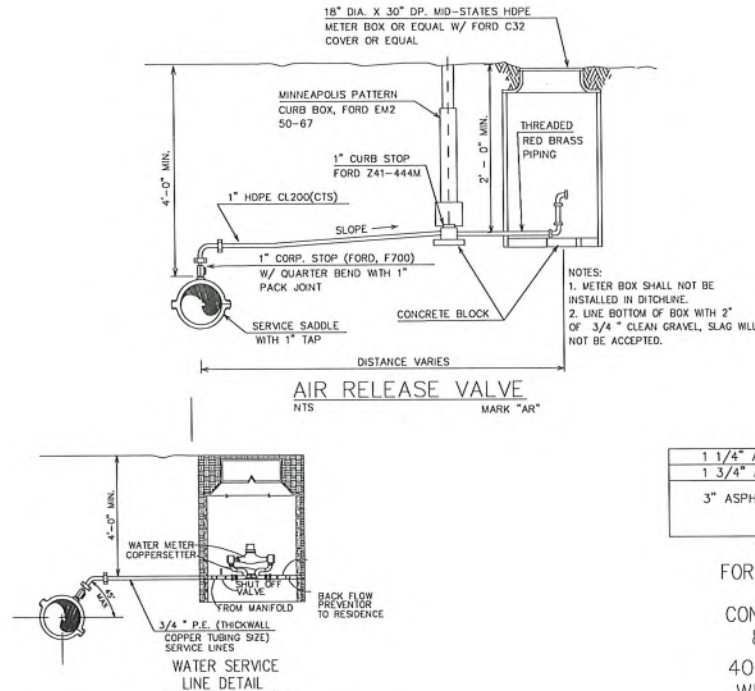
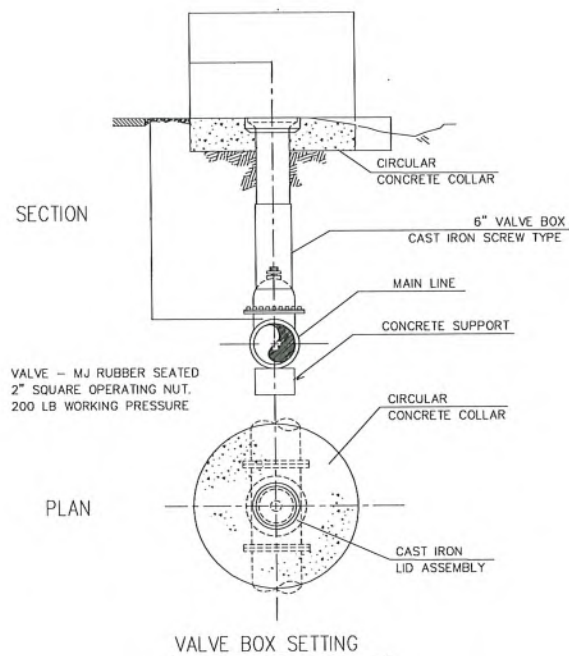
ALL MANUFACTURED MATERIALS FOR THIS PROJECT ARE TO BE "MADE IN THE U.S.A." OR AS APPROVED BY THE ENGINEER.

WATERLINE SPECIFICATIONS

ACCEPTABLE PIPE & APPURTENANCES  
PIPE MATERIAL/PIPE SPECS - PC235 PVC PIPE/DR18/AWWA C900  
VALVES/TAPPING SLEEVES - AWWA C500  
STOP BOXES/SERVICE BOXES - AWWA C800  
DISINFECTION/FLUSHING - AWWA C651  
INSTALLATION/TESTING AWWA C600, C605

|  |   |
|--|---|
| PREPARED BY:<br><br>Mark J. Eicher, P.E., P.S.<br>155 Rehl Road<br>Zanesville, Ohio 43701<br>ENGINEER'S OFFICE 740-454-0155 |   |
| PROJECT NAME:<br>URBAN HILL, E WHEELING & RUSTIC RIDGE<br>WATER EXTENSION  | PROJECT LOCATION:<br>PERRY TOWNSHIP<br>ZANESVILLE, OHIO 43701 |
| PLANS APPROVED BY:<br><br>MJE  |   |
| PLANS PREPARED BY:<br><br>HJ   |   |
| DATE:<br><br>05/26/2023  |   |
| REVISED:   |   |
| SHEET SIZE:<br><br>11" x 17"   |   |
| SHEET NAME:<br><br>GENERAL<br>NOTES (1)  |   |
| SHEET NUMBER:<br><div>03<br/>42</div>  |   |





|         |
|---------|
| 1 1/4\" |
| 1 3/4\" |
| 3\"     |

TYPICAL ROAD SECTION  
FOR PAVEMENT REPAIR AREAS

CONTRACTOR MAY SUBSTITUTE  
8\"

- NOTES:
1. METER BOX SHALL NOT BE INSTALLED IN DITCHLINE.
  2. LINE BOTTOM OF BOX WITH 2\"
  3. PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.

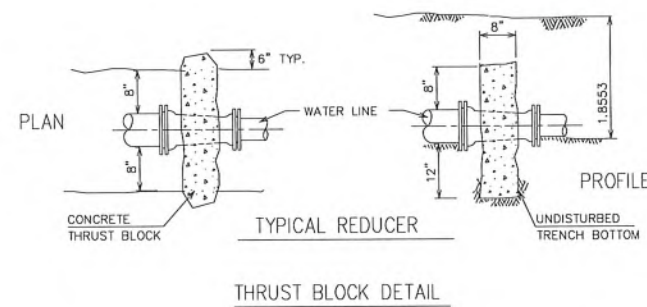
TYP. BEND AND TEE DETAILS

| SIZE OF PIPE | BENDS          |         |     |     |    |    | TEES       |     |     |     |    |    |
|--------------|----------------|---------|-----|-----|----|----|------------|-----|-----|-----|----|----|
|              | DEGREE OF BEND |         |     |     |    |    | BRANCH     |     |     |     |    |    |
|              | 11 1/4"        | 22 1/2" | 45" | 90" |    |    | 3", 4", 6" | 8"  | 12" | 16" |    |    |
| 3"           | 8              | 10      | 6   | 20  | 6  | 36 | 8          | 3"  | 16  | 7   |    |    |
| 4"           | 8              | 10      | 6   | 20  | 6  | 36 | 8          | 4"  | 16  | 7   |    |    |
| 6"           | 8              | 12      | 7   | 20  | 8  | 36 | 9          | 6"  | 16  | 7   |    |    |
| 8"           | 9              | 16      | 9   | 24  | 12 | 50 | 11         | 8"  | 14  | 8   | 18 | 12 |
| 12"          | 14             | 24      | 14  | 36  | 18 | 60 | 18         | 12" | 14  | 12  | 24 | 14 |
| 16"          | 18             | 32      | 18  | 36  | 36 | 70 | 26         | 16" | 18  | 16  | 32 | 18 |

STEEL WILL BE USED AS REQUIRED BY ENGINEER

STEEL WILL BE USED AS REQUIRED BY ENGINEER

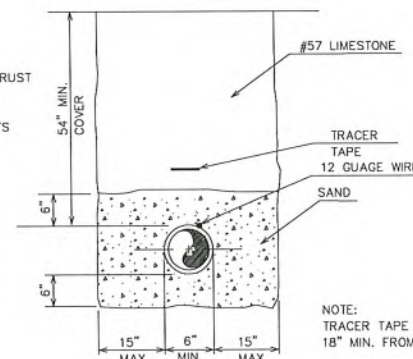
MINIMUM REQUIREMENTS



M.J. FITTINGS  
DUCTILE - IRON

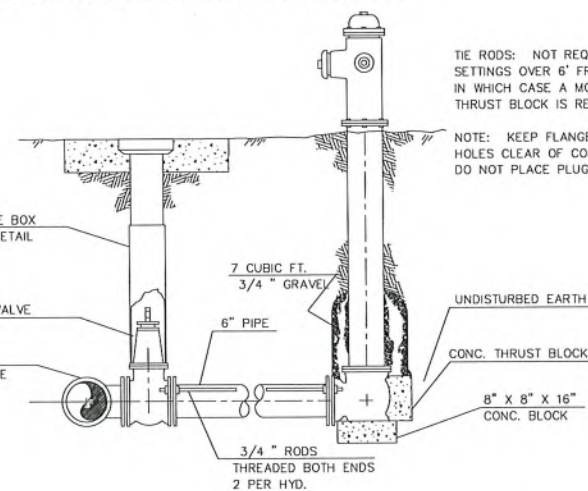
NOTE:

1. PROVIDE SUBSTANTIAL THRUST BLOCKING ON ALL FITTINGS.
2. KEEP ALL FLANGES, BOLTS CLEAN OF CONCRETE.



TYP. PIPE TRENCH DETAIL  
NON PAVED DRIVEWAY AREAS

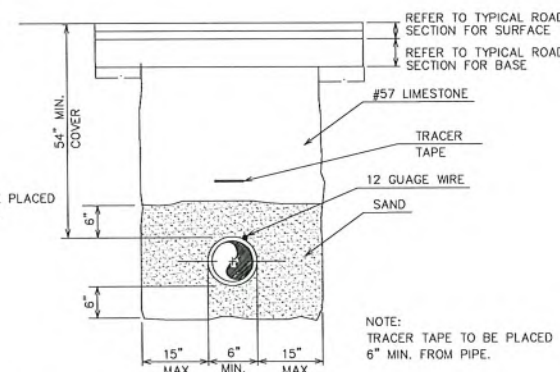
FIRE HYDRANT SHALL BE FLOW CONTROL B 84 B OR CLOW AS APPROVED BY MUSKINGUM COUNTY WATER DEPARTMENT.



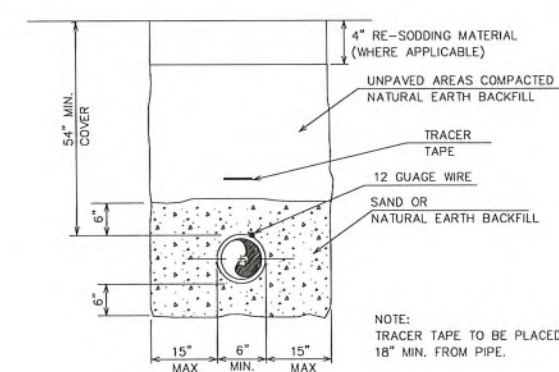
FIRE HYDRANT ASSEMBLY

TIE RODS: NOT REQUIRED FOR SETTINGS OVER 6' FROM MAIN, IN WHICH CASE A MORE SUBSTANTIAL THRUST BLOCK IS REQUIRED.

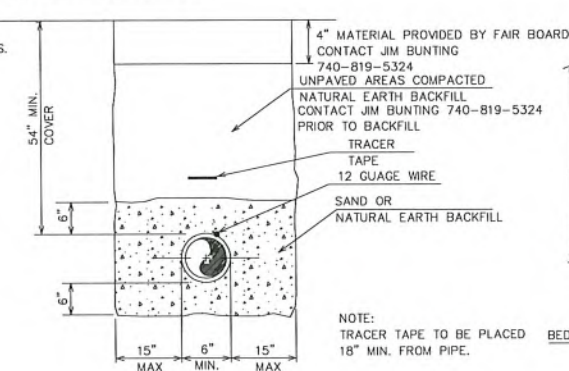
NOTE: KEEP FLANGES AND WEEP HOLES CLEAR OF CONCRETE. DO NOT PLACE PLUGS IN WEEP HOLES.



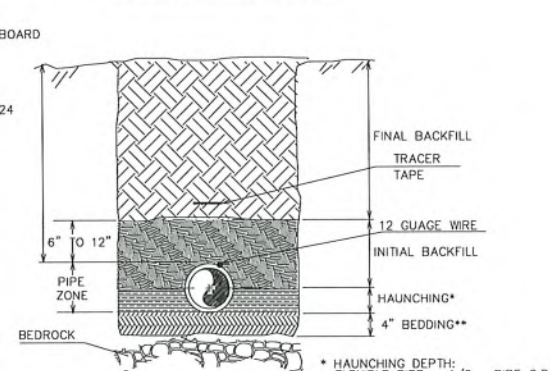
TYP. PIPE TRENCH DETAIL  
(PAVEMENT AREAS)



TYP. PIPE TRENCH DETAIL  
(NON-PAVEMENT AREAS)



TYP. PIPE TRENCH DETAIL  
TRACK AREA



TRENCH BACKFILL  
OVER BEDROCK

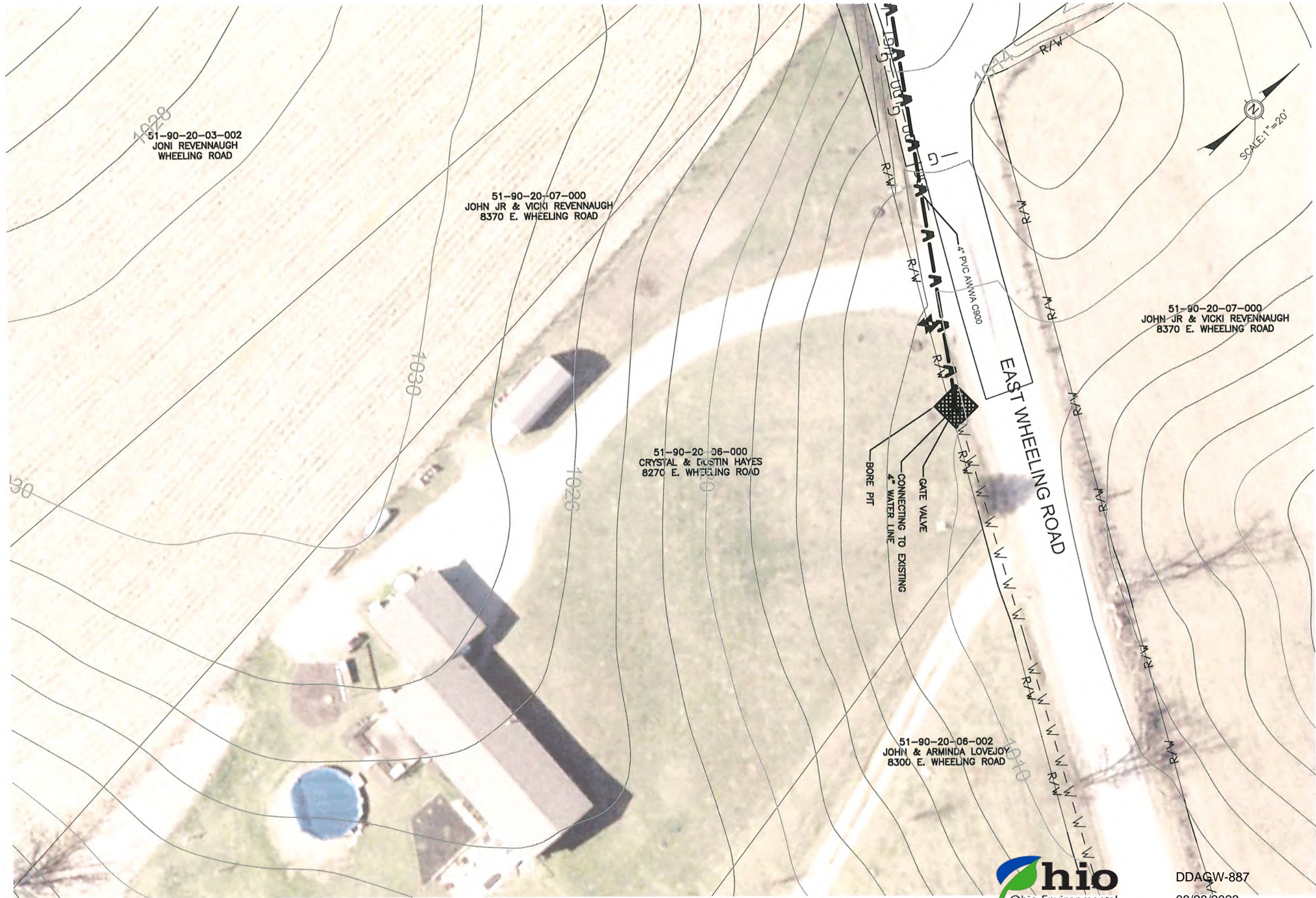
\* HAUNCHING DEPTH: FLEXIBLE PIPE - 1/2 PIPE O.D. RIGID PIPE - 1/6 PIPE O.D.

\*\* BEDDING: REQUIRED ONLY WITH ROCK FOUNDATION

DDAGW-887

08/28/2023

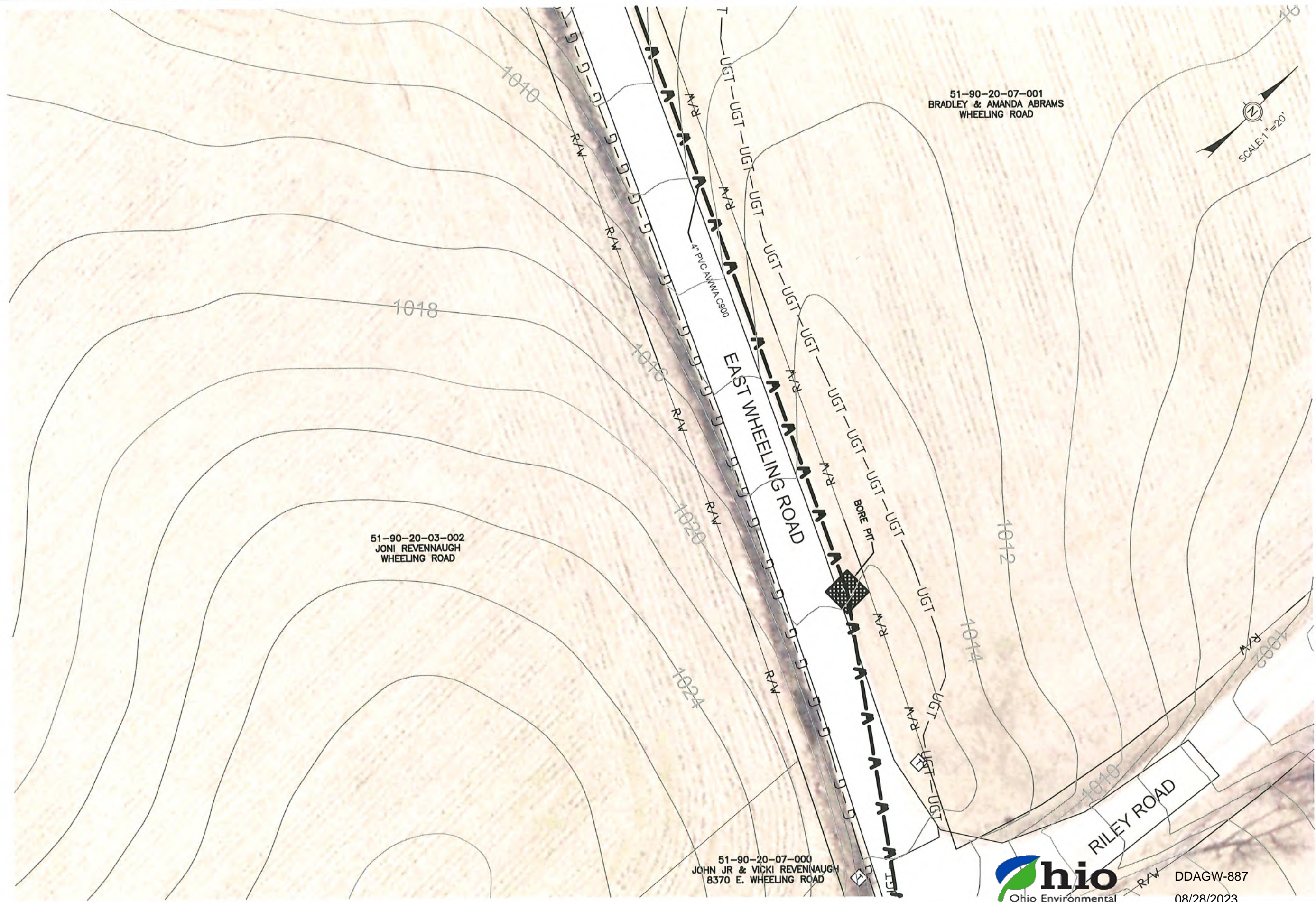




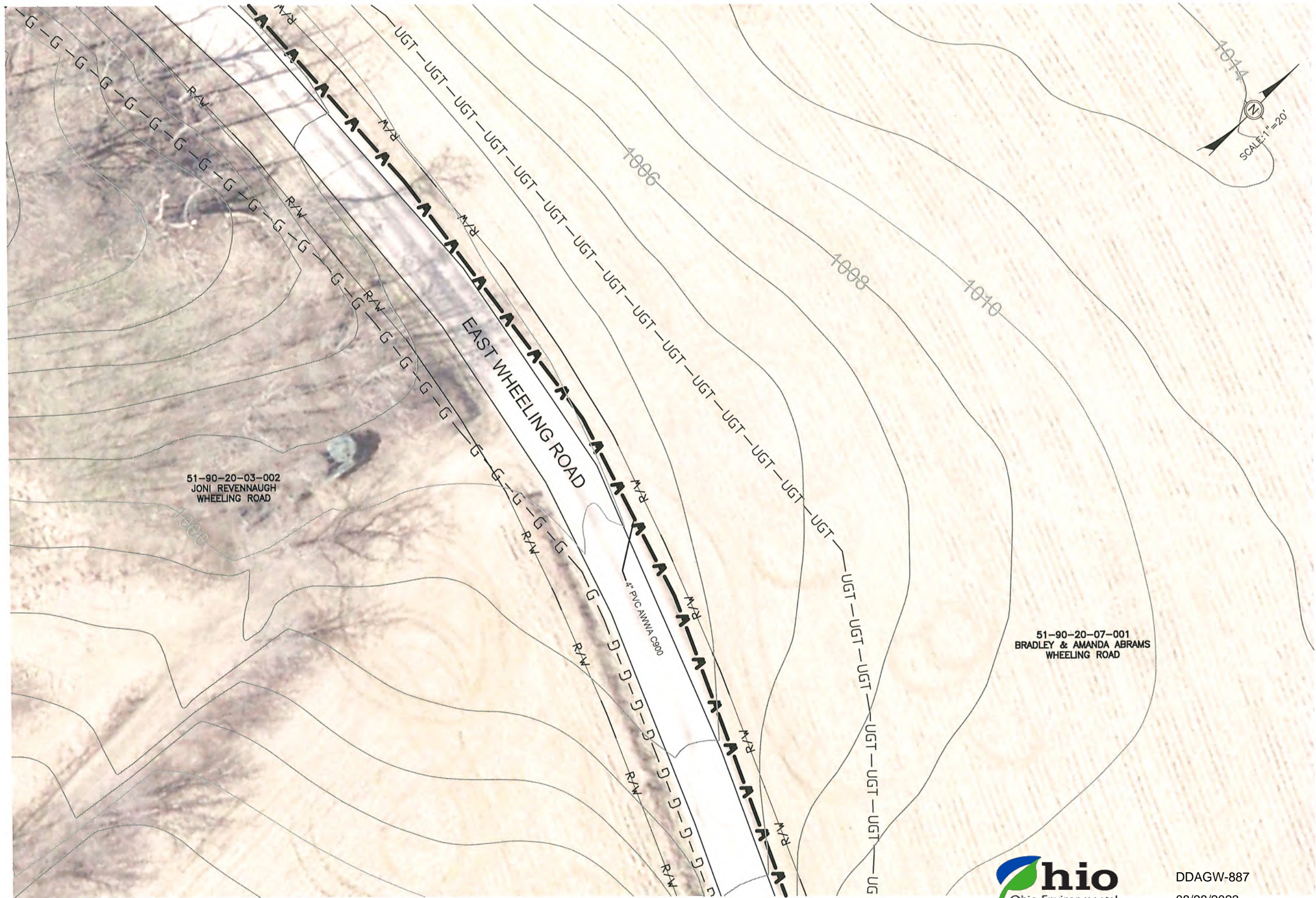
DDAQW-887  
08/28/2023

|   |   |
|---|---|
| Mark J. Eicher, P.E., P.S.<br>155 Rehl Road<br>Zanesville, Ohio 43701<br>ENGINEER'S OFFICE 740-454-0155 |   |
| PREPARED BY:  | Mark J. Eicher, P.E., P.S.                    |
| PROJECT NAME:   | URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET |
| PROJECT LOCATION:   | URBAN HILL<br>ZANESVILLE, OHIO 43701          |
| PLANS APPROVED BY:  | MJE   |
| PLANS PREPARED BY:  | HJ  |
| DATE:   | 04/19/2023                                    |
| REVISED:  |   |
| SHEET SIZE:   | 11" x 17"                                     |
| SHEET NAME:   | PLAN VIEW<br>E. WHEELING<br>LAYOUT 1          |
| SHEET NUMBER:   | 05<br>42                                      |









DDAGW-887  
08/28/2023

|   |  |   |  |
|---|--|---|--|
| PREPARED BY:<br><b>W. Muskingum</b><br>County<br><b>ENGINEER'S OFFICE</b> |  | Mark J. Eicher, P.E., P.S.<br>155 Rehl Road<br>Zanesville, Ohio 43701<br>740-454-0155 |  |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET            |  | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701                             |  |
| PLANS APPROVED BY:<br>MJE   |  | PLANS PREPARED BY:<br>HJ  |  |
| DATE:<br>04/19/2023   |  | REVISIONS:  |  |
| SHEET SIZE:<br>11" x 17"  |  | SHEET NAME:<br>PLAN VIEW<br>E. WHEELING<br>LAYOUT 3                                   |  |
| SHEET NUMBER:<br>07<br>42   |  |   |  |





Mark J. Eicher, P.E., P.S.  
155 Rehl Road  
Zanesville, Ohio 43701  
740-454-0155

**Muskingum**  
County  
ENGINEER'S OFFICE

PREPARED BY:

PROJECT NAME:  
URBAN HILL WATER EXTENSION  
PLAN VIEW SHEET

PROJECT LOCATION:  
URBAN HILL  
ZANESVILLE, OHIO 43701

PLANS APPROVED BY:  
  
MJE

PLANS PREPARED BY:  
  
HJ

DATE:  
  
04/19/2023

REVISED:

SHEET SIZE:  
  
11" x 17"

SHEET NAME:  
PLAN VIEW  
E. WHEELING  
LAYOUT 4

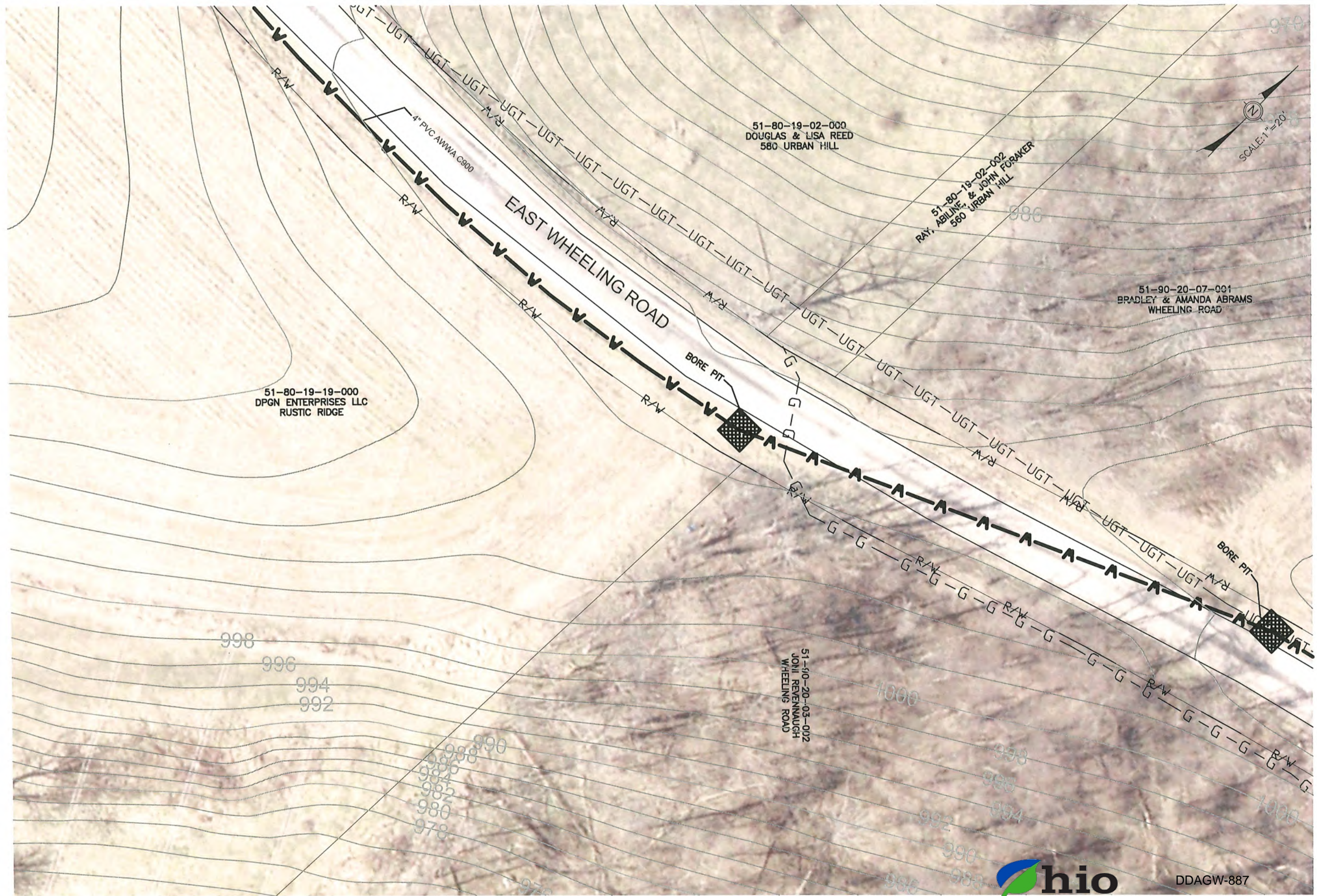
SHEET NUMBER:  

08  
42

**Ohio**  
Environmental  
Protection Agency

DDAGW-887  
08/28/2023





Mark J. Eicher, P.E., P.S.  
155 Rehl Road  
Zanesville, Ohio 43701  
740-454-0155

**Muskingum County**  
ENGINEER'S OFFICE

PREPARED BY:

PROJECT NAME: URBAN HILL WATER EXTENSION  
PLAN VIEW SHEET

PROJECT LOCATION: URBAN HILL  
ZANESVILLE, OHIO 43701

PLANS APPROVED BY: MJE

PLANS PREPARED BY: HJ

DATE: 04/19/2023

REVISED:

SHEET SIZE: 11" x 17"

SHEET NAME: PLAN VIEW  
E. WHEELING  
LAYOUT 5

SHEET NUMBER: 09  
42





Mark J. Eicher, P.E., P.S.  
155 Rehl Road  
Zanesville, Ohio 43701  
740-454-0155

**Muskingum County**  
ENGINEER'S OFFICE

PREPARED BY:

PROJECT NAME:  
URBAN HILL WATER EXTENSION  
PLAN VIEW SHEET

PROJECT LOCATION:  
URBAN HILL  
ZANESVILLE, OHIO 43701

PLANS APPROVED BY:  
MJE

PLANS PREPARED BY:  
HJ

DATE:  
04/19/2023

REVISED:

SHEET SIZE:  
11" x 17"

SHEET NAME:  
PLAN VIEW  
E. WHEELING  
LAYOUT 6

SHEET NUMBER:  
10  
42

**Ohio**  
Ohio Environmental  
Protection Agency

DDAGW-887  
08/28/2023

51-80-19-19-000  
DPGN ENTERPRISES LLC  
RUSTIC RIDGE

51-80-19-01-000  
KEITH CULBERTSON  
7925 WHEELING ROAD

51-80-19-02-000  
DOUGLAS & LISA REED  
560 URBAN HILL

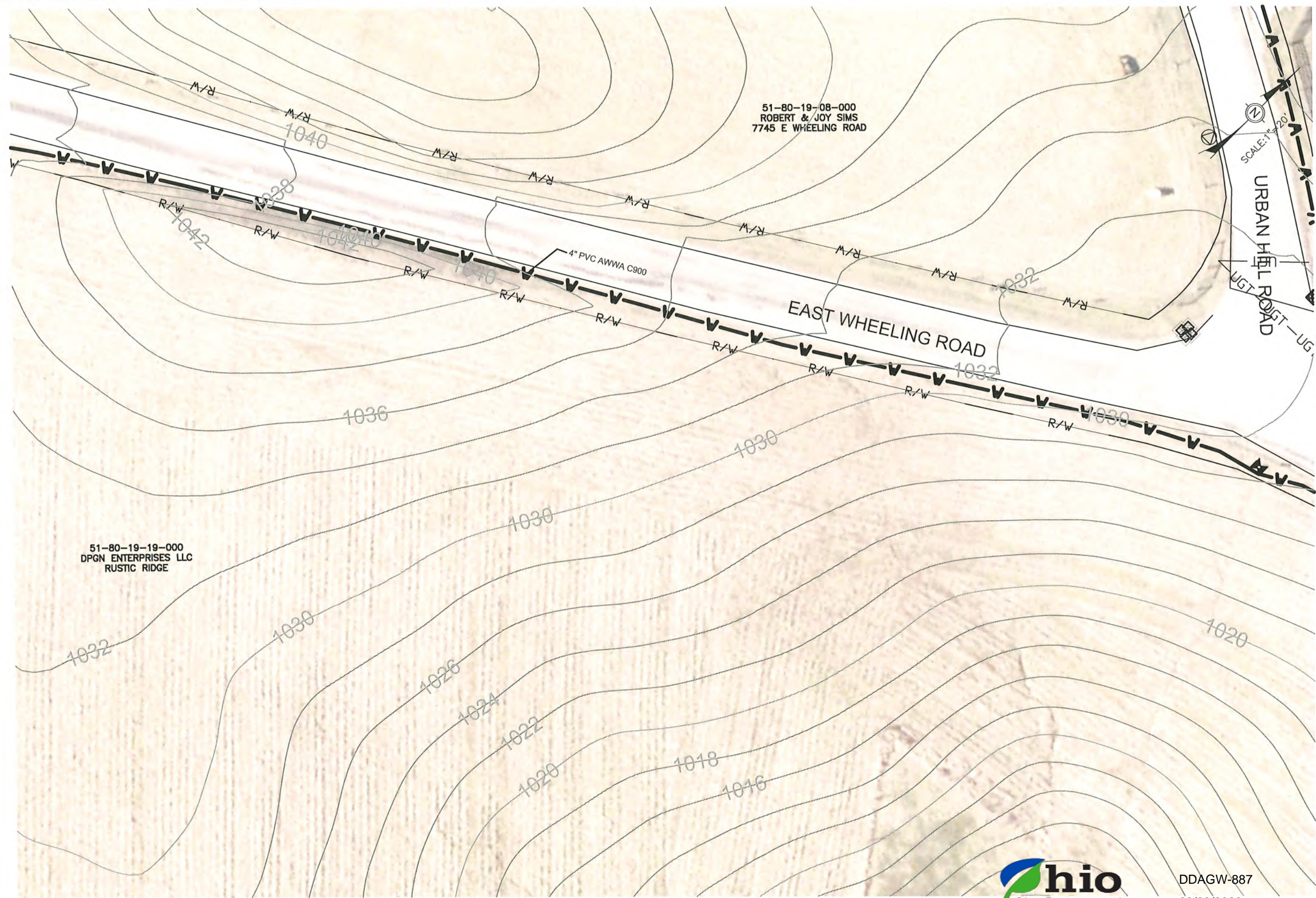




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08/28/2023

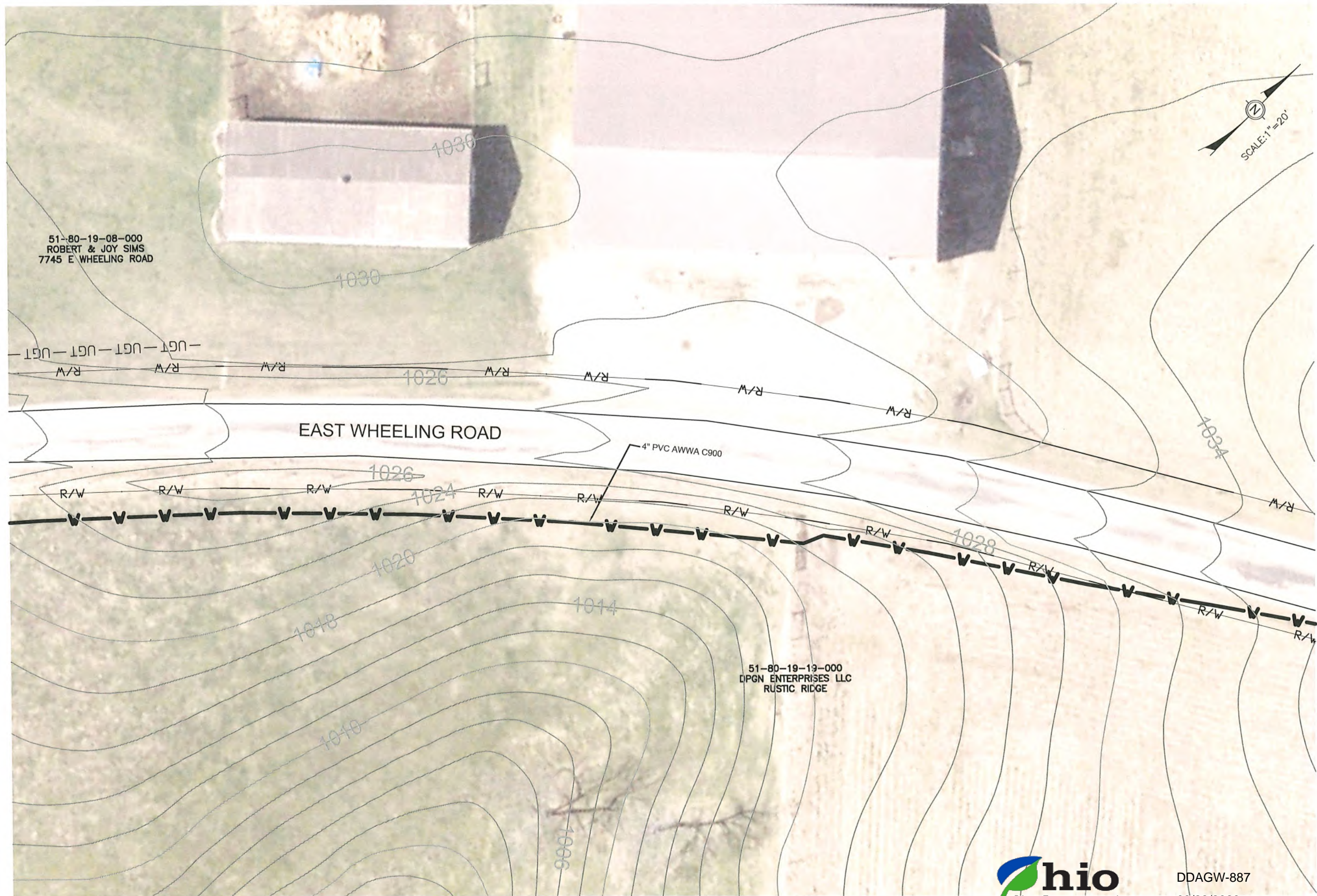
|  |   |
|--|---|
| PREPARED BY:<br><b>Markuskingum</b><br>County<br>ENGINEER'S OFFICE |   |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET     | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701 |
| PLANS APPROVED BY:<br>MJE  |   |
| PLANS PREPARED BY:<br>HJ   |   |
| DATE:<br>04/19/2023  |   |
| REVISED:   |   |
| SHEET SIZE:<br>11" x 17"   |   |
| SHEET NAME:<br>PLAN VIEW<br>E. WHEELING<br>LAYOUT 7                |   |
| SHEET NUMBER:<br>11<br>42  |   |





|  |   |
|--|---|
| <b>Mark J. Eichler, P.E., P.S.</b><br>155 Rehl Road<br>Zanesville, Ohio 43701<br><b>ENGINEER'S OFFICE</b> 740-454-0155 |   |
| <b>Muskingum County</b>  |   |
| PREPARED BY:   |   |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET   | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701 |
| PLANS APPROVED BY:<br><b>MJE</b>   |   |
| PLANS PREPARED BY:<br><b>HJ</b>  |   |
| DATE:<br>04/19/2023  |   |
| REVISED:   |   |
| SHEET SIZE:<br>11" x 17"   |   |
| SHEET NAME:<br>PLAN VIEW<br>E. WHEELING<br>LAYOUT 8  |   |
| SHEET NUMBER:<br>12<br>42  |   |





DDAGW-887  
08/28/2023

**Waskington**  
**County**  
**ENGINEER'S OFFICE**

PREPARED BY:  
Mark J. Fisher, P.E., P.S.  
155 Rehl Road  
Zanesville, Ohio 43701  
740-454-0155

PROJECT NAME:  
URBAN HILL WATER EXTENSION  
PLAN VIEW SHEET

PROJECT LOCATION:  
URBAN HILL  
ZANESVILLE, OHIO 43701

PLANS APPROVED BY:  
MJE

PLANS PREPARED BY:  
HJ

DATE:  
04/19/2023

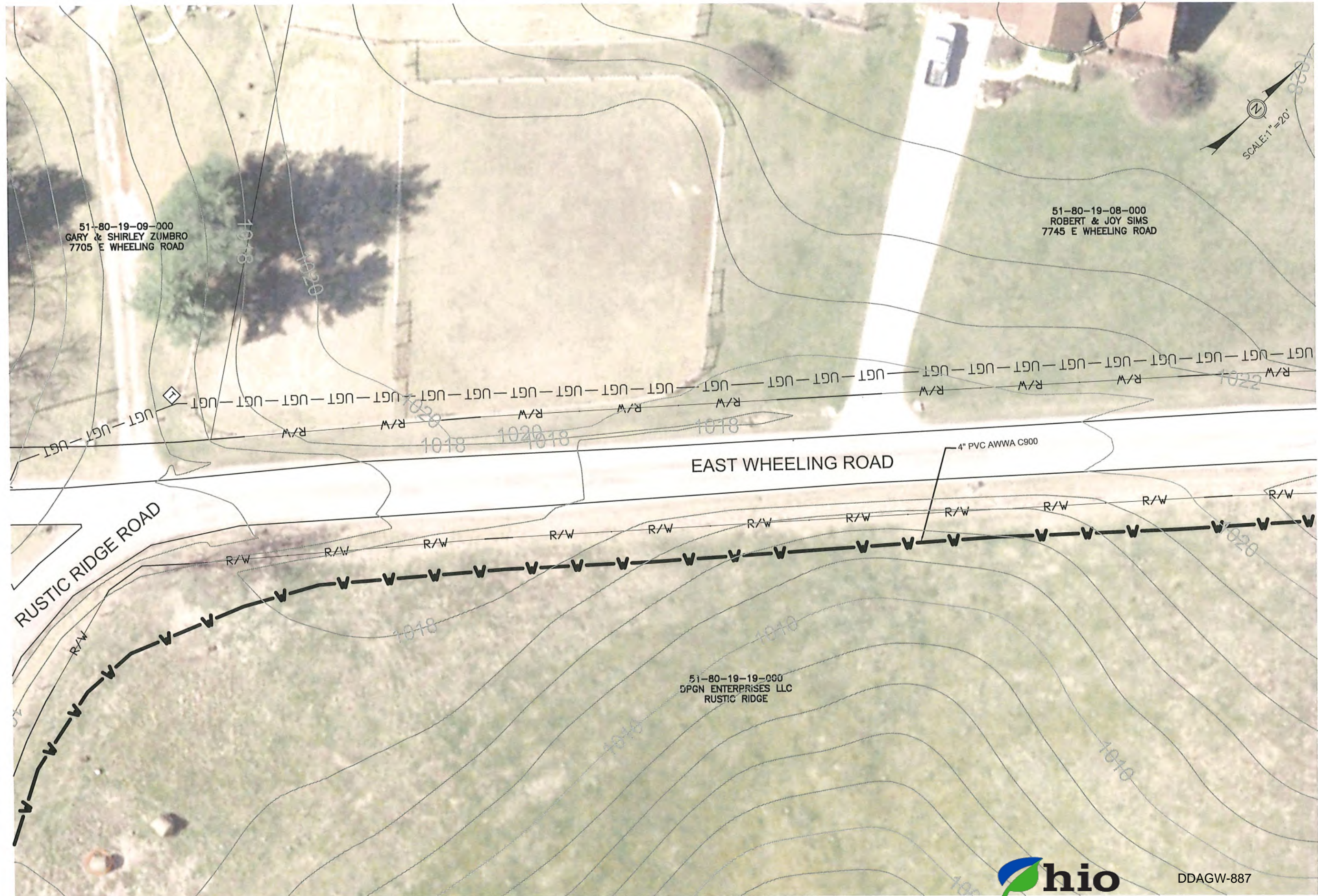
REVISED:

SHEET SIZE:  
11" x 17"

SHEET NAME:  
PLAN VIEW  
E. WHEELING  
LAYOUT 9

SHEET NUMBER:  
13  
42





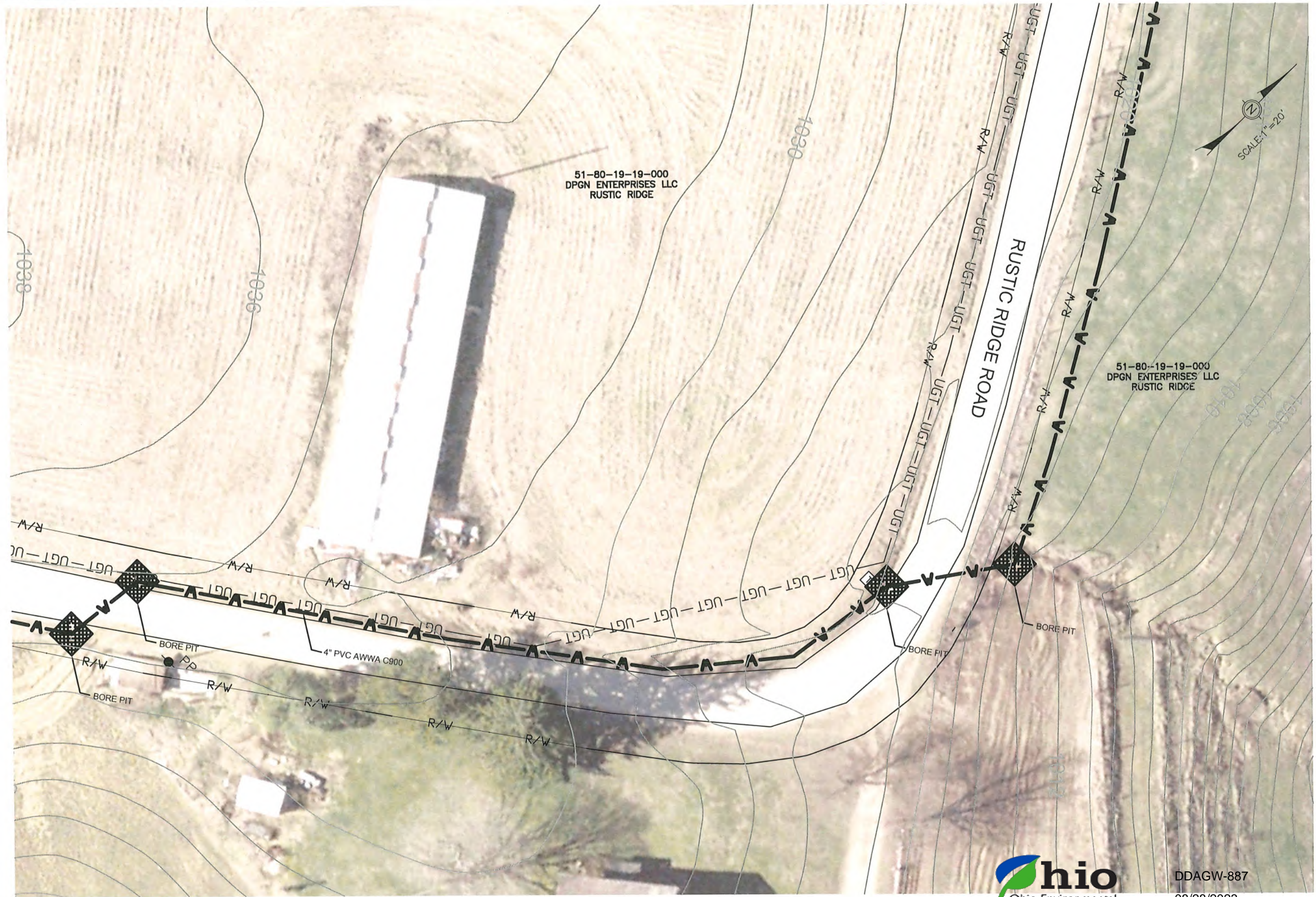




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08/28/2023

|   |   |
|---|---|
| Mark J. Eicher, P.E., P.S.<br>155 Rehl Road<br>Zanesville, Ohio 43701<br>740-454-0155 |   |
| <b>Muskingum County</b><br>ENGINEER'S OFFICE  |   |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET                        | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701 |
| PLANS APPROVED BY:<br>MJE   |   |
| PLANS PREPARED BY:<br>HJ  |   |
| DATE:<br>04/19/2023   |   |
| REVISED:  |   |
| SHEET SIZE:<br>11" x 17"  |   |
| SHEET NAME:<br>PLAN VIEW<br>RUSTIC RIDGE<br>LAYOUT 1                                  |   |
| SHEET NUMBER:<br>15<br>42   |   |

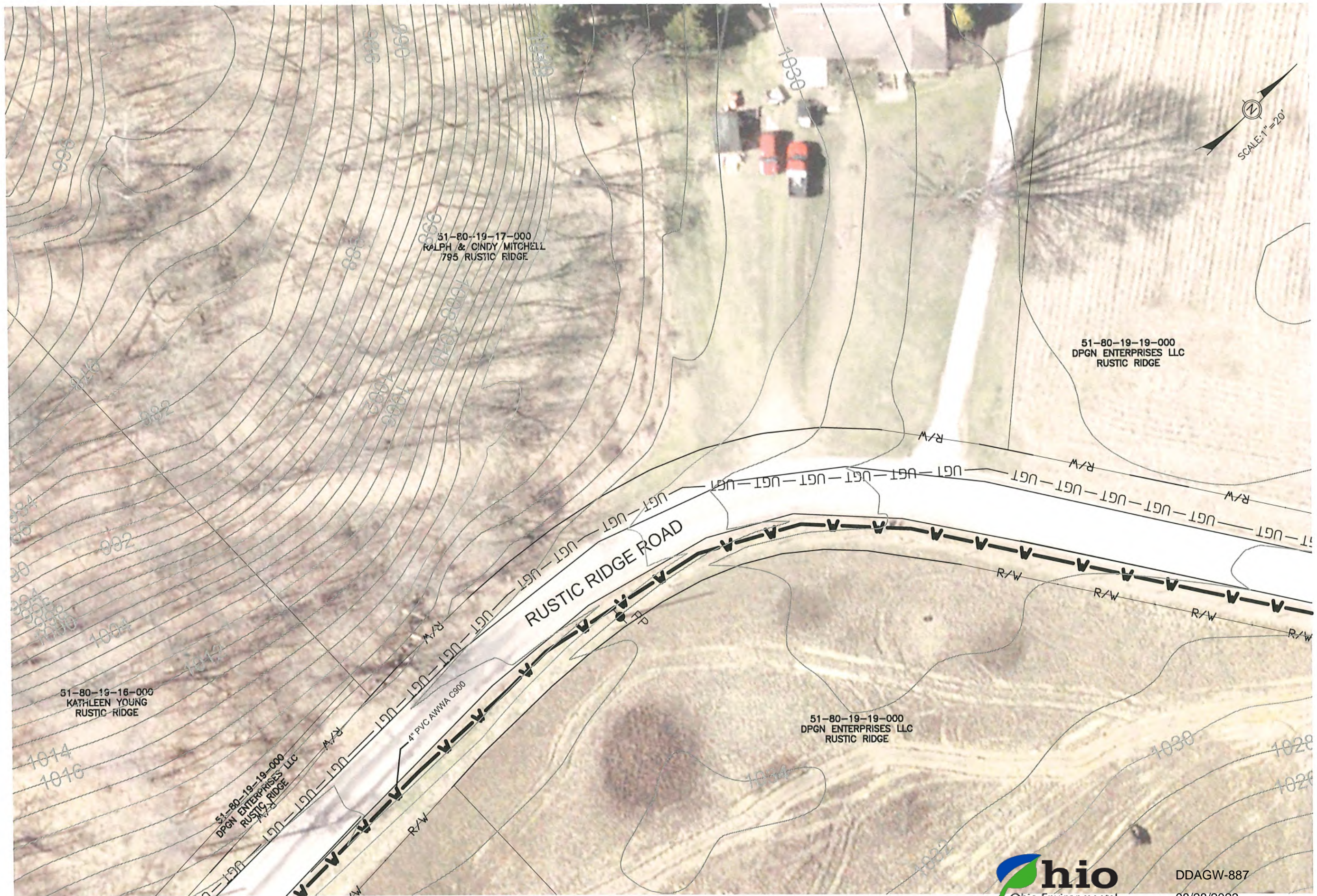




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08/28/2023

|  |   |   |
|--|---|---|
| <b>Markuskingum</b><br>County<br>ENGINEER'S OFFICE             |   | Mark J. Eicher, P.E., P.S.<br>155 Rehl Road<br>Zanesville, Ohio 43701<br>740-454-0155 |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701 |   |
| PLANS APPROVED BY:<br>MJE                                      |   |   |
| PLANS PREPARED BY:<br>HJ                                       |   |   |
| DATE:<br>04/19/2023  |   |   |
| REVISED:   |   |   |
| SHEET SIZE:<br>11" x 17"                                       |   |   |
| SHEET NAME:<br>PLAN VIEW<br>RUSTIC RIDGE<br>LAYOUT 2           |   |   |
| SHEET NUMBER:<br>16<br>42                                      |   |   |





Mark J. Eicher, P.E., P.S.  
155 Rehl Road  
Zanesville, Ohio 43701  
740-454-0155

Urban Hill Water Extension  
Plan View Sheet

Project Name: Urban Hill Water Extension  
Project Location: Zanesville, Ohio 43701

Plans Approved By: MJE

Plans Prepared By: HJ

Date: 04/19/2023

Revised:

Sheet Size: 11" x 17"

Sheet Name: PLAN VIEW  
RUSTIC RIDGE  
LAYOUT 3

Sheet Number: 17  
42



DDAGW-887  
08/28/2023





DDAGW-887  
08/28/2023

|  |   |
|--|---|
| PREPARED BY:<br><b>Mark J. Eicher, P.E., P.S.</b><br>155 Rehl Road<br>Zanesville, Ohio 43701<br><b>Wuskingum County ENGINEER'S OFFICE</b> 740-454-0155 |   |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET   | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701 |
| PLANS APPROVED BY:<br>MJE  |   |
| PLANS PREPARED BY:<br>HJ   |   |
| DATE:<br>04/19/2023  |   |
| REVISED:   |   |
| SHEET SIZE:<br>11" x 17"   |   |
| SHEET NAME:<br>PLAN VIEW<br>RUSTIC RIDGE<br>LAYOUT 4   |   |
| SHEET NUMBER:<br>18<br>42  |   |





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08/28/2023

|   |   |
|---|---|
| Mark J. Fisher, P.E., P.S.<br>155 Rehl Road<br>Zanesville, Ohio 43701<br>ENGINEER'S OFFICE 740-454-0155 |   |
| PROJECT NAME:   | URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET |
| PROJECT LOCATION:   | URBAN HILL<br>ZANESVILLE, OHIO 43701          |
| PLANS APPROVED BY:  | MJE   |
| PLANS PREPARED BY:  | HJ  |
| DATE:   | 04/19/2023                                    |
| REVISED:  |   |
| SHEET SIZE:   | 11" x 17"                                     |
| SHEET NAME:   | PLAN VIEW<br>RUSTIC RIDGE<br>LAYOUT 5         |
| SHEET NUMBER:   | 19<br>42                                      |





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08/28/2023

|   |   |
|---|---|
| Mark J. Eicher, P.E., P.S.<br>155 Rehl Road<br>Zanesville, Ohio 43701<br>ENGINEER'S OFFICE 740-454-0155 |   |
| PREPARED BY:  | Mark J. Eicher, P.E., P.S.                    |
| PROJECT NAME:   | URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET |
| PROJECT LOCATION:   | URBAN HILL<br>ZANESVILLE, OHIO 43701          |
| PLANS APPROVED BY:  | MJE   |
| PLANS PREPARED BY:  | HJ  |
| DATE:   | 04/19/2023                                    |
| REVISED:  |   |
| SHEET SIZE:   | 11" x 17"                                     |
| SHEET NAME:   | PLAN VIEW<br>RUSTIC RIDGE<br>LAYOUT 6         |
| SHEET NUMBER:   | 20<br>42                                      |

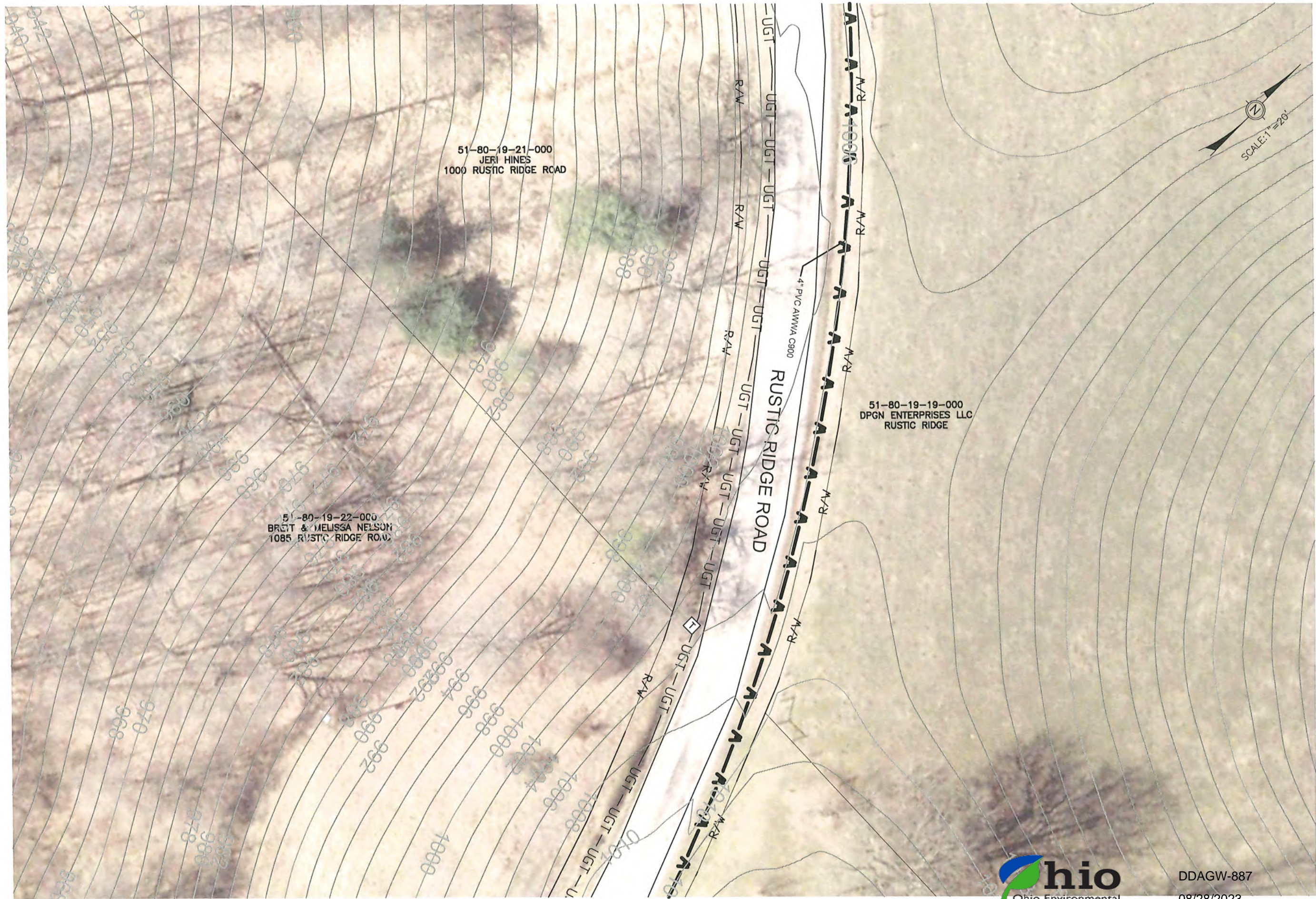




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08/28/2023

|  |  |   |  |
|--|--|---|--|
| PREPARED BY:<br><b>Muskingum</b><br>County<br><b>ENGINEER'S OFFICE</b> |  | Mark J. Elcher, P.E., P.S.<br>155 Rehl Road<br>Zanesville, Ohio 43701<br>740-454-0155 |  |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET         |  | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701                             |  |
| PLANS APPROVED BY:<br>MJE  |  | PLANS PREPARED BY:<br>HJ  |  |
| DATE:<br>04/19/2023  |  | SHEET SIZE:<br>11" x 17"  |  |
| SHEET NAME:<br>PLAN VIEW<br>RUSTIC RIDGE<br>LAYOUT 7                   |  | SHEET NUMBER:<br>21<br>42   |  |

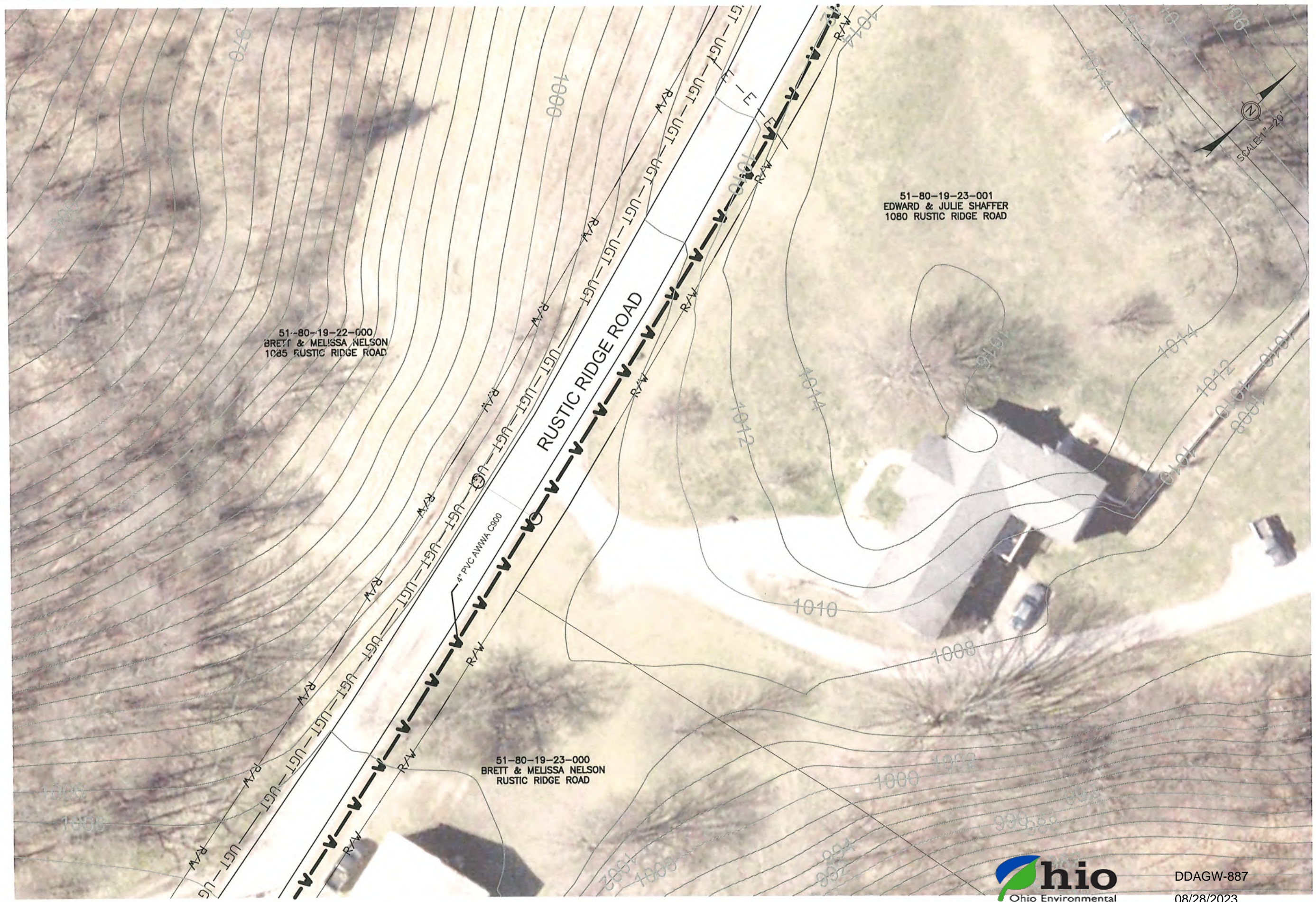




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08/28/2023

|  |  |   |  |
|--|--|---|--|
| PREPARED BY:<br><b>Muskingum County</b><br>ENGINEER'S OFFICE   |  | Mark J. Elcher, P.E., P.S.<br>155 Rehl Road<br>Zanesville, Ohio 43701<br>740-454-0155 |  |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET |  | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701                             |  |
| PLANS APPROVED BY:<br>MJE                                      |  | PLANS PREPARED BY:<br>HJ  |  |
| DATE:<br>04/19/2023  |  | SHEET SIZE:<br>11" x 17"  |  |
| SHEET NAME:<br>PLAN VIEW<br>RUSTIC RIDGE<br>LAYOUT 8           |  | SHEET NUMBER:<br>22<br>42   |  |





|  |   |   |
|--|---|---|
|  |   | Mark J. Eicher, P.E., P.S.<br>155 Rehl Road<br>Zanesville, Ohio 43701<br>ENGINEER'S OFFICE 740-454-0155 |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701 |   |
| PLANS APPROVED BY:<br>MJE                                      |   |   |
| PLANS PREPARED BY:<br>HJ                                       |   |   |
| DATE:<br>04/19/2023  |   |   |
| REVISED:   |   |   |
| SHEET SIZE:<br>11" x 17"                                       |   |   |
| SHEET NAME:<br>PLAN VIEW<br>RUSTIC RIDGE<br>LAYOUT 9           |   |   |
| SHEET NUMBER:<br>23<br>42                                      |   |   |

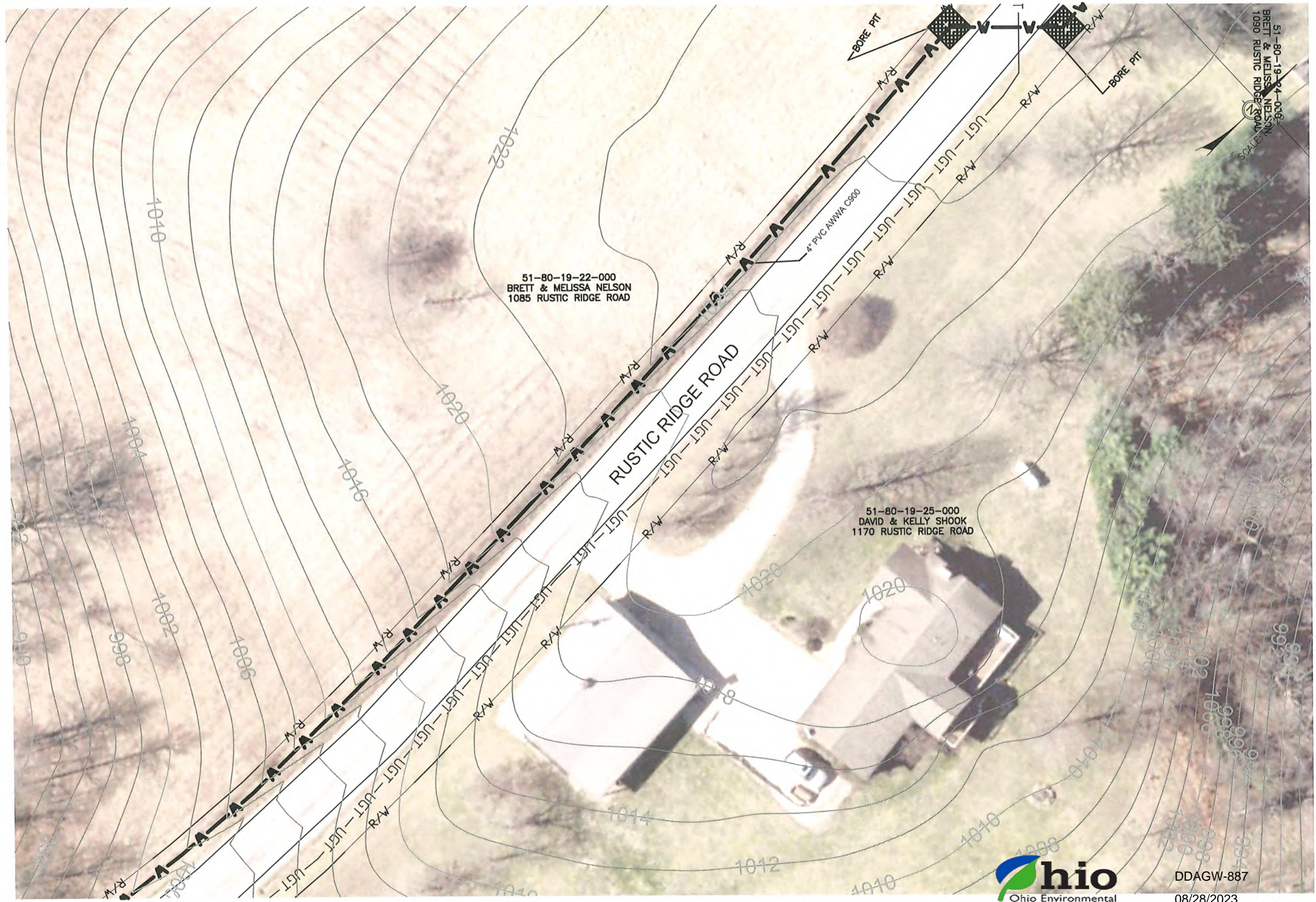




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08/28/2023

|   |   |
|---|---|
| Mark J. Eicher, P.E., P.S.<br>155 Rehl Road<br>Zanesville, Ohio 43701<br>ENGINEER'S OFFICE 740-454-0155 |   |
| PREPARED BY:  | Mark J. Eicher, P.E., P.S.                    |
| PROJECT NAME:   | URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET |
| PROJECT LOCATION:   | URBAN HILL<br>ZANESVILLE, OHIO 43701          |
| PLANS APPROVED BY:  | MJE   |
| PLANS PREPARED BY:  | HJ  |
| DATE:   | 04/19/2023                                    |
| REVISED:  |   |
| SHEET SIZE:   | 11" x 17"                                     |
| SHEET NAME:   | PLAN VIEW<br>RUSTIC RIDGE<br>LAYOUT 10        |
| SHEET NUMBER:   | 24<br>42                                      |





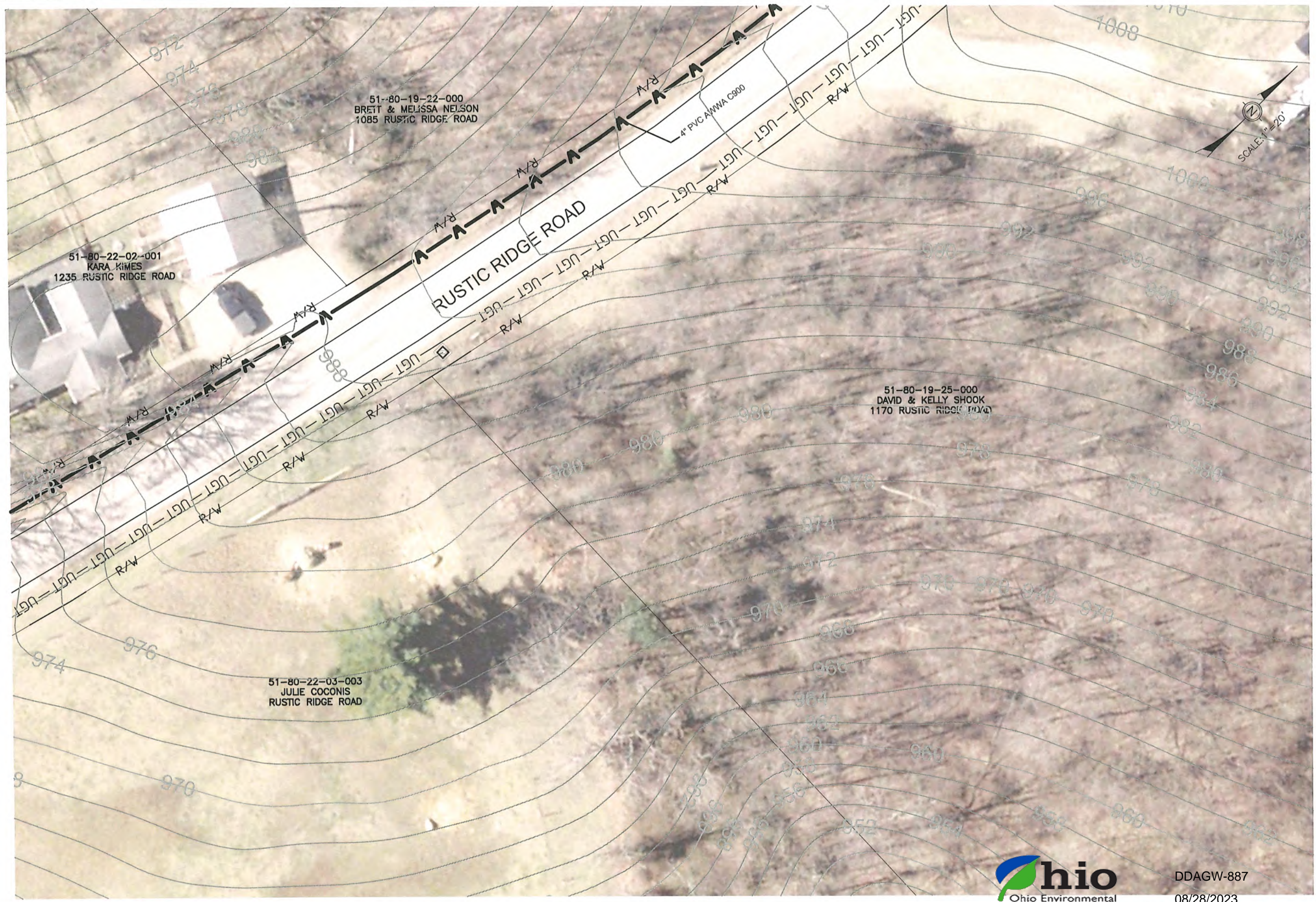
51-80-19-24-000  
BRETT & MELISSA NELSON  
1090 RUSTIC RIDGE ROAD  
SCALE: 1" = 40'



DDAGW-887  
08/28/2023

|   |   |
|---|---|
| Mark J. Eicher, P.E., P.S.<br>155 Rehl Road<br>Zanesville, Ohio 43701<br>740-454-0155 |   |
| <b>Muskingum County</b><br>ENGINEER'S OFFICE  |   |
| PREPARED BY:  |   |
| PROJECT NAME:   | URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET |
| PROJECT LOCATION:   | URBAN HILL<br>ZANESVILLE, OHIO 43701          |
| PLANS APPROVED BY:  | MJE   |
| PLANS PREPARED BY:  | HJ  |
| DATE:   | 04/19/2023                                    |
| REVISED:  |   |
| SHEET SIZE:   | 11" x 17"                                     |
| SHEET NAME:   | PLAN VIEW<br>RUSTIC RIDGE<br>LAYOUT 11        |
| SHEET NUMBER:   | 25<br>42                                      |





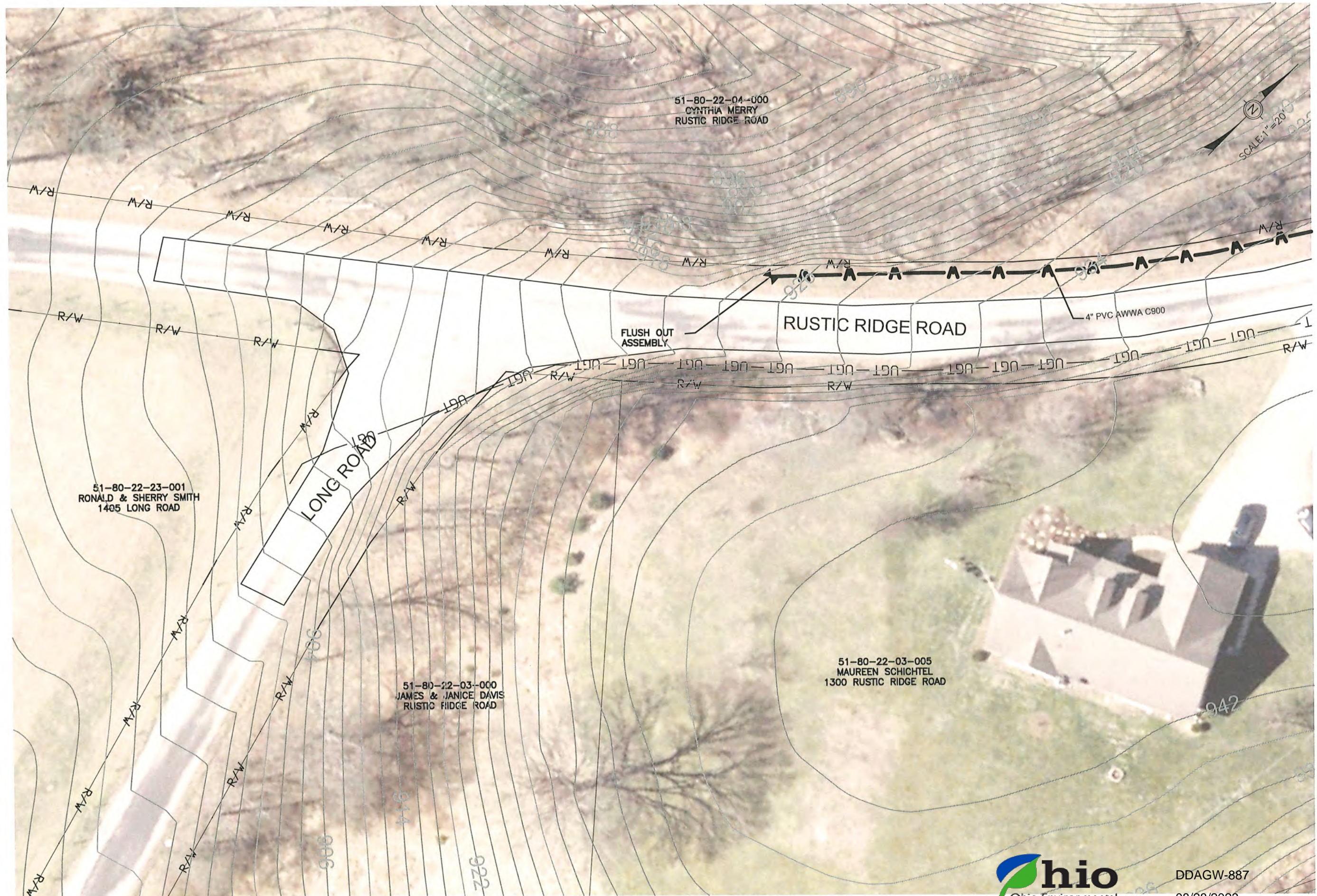
DDAGW-887  
08/28/2023

|   |   |
|---|---|
| Mark J. Fisher, P.E., P.S.<br>155 Rehl Road<br>Zanesville, Ohio 43701<br>ENGINEER'S OFFICE 740-454-0155 |   |
| PREPARED BY:  | Mark J. Fisher                                |
| PROJECT NAME:   | URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET |
| PROJECT LOCATION:   | URBAN HILL<br>ZANESVILLE, OHIO 43701          |
| PLANS APPROVED BY:  | MJE   |
| PLANS PREPARED BY:  | HJ  |
| DATE:   | 04/19/2023                                    |
| REVISED:  |   |
| SHEET SIZE:   | 11" x 17"                                     |
| SHEET NAME:   | PLAN VIEW<br>RUSTIC RIDGE<br>LAYOUT 12        |
| SHEET NUMBER:   | 26<br>42                                      |









Mark J. Fisher, P.E., P.S.  
155 Rehl Road  
Zanesville, Ohio 43701  
740-454-0155

**Muskingum**  
County  
ENGINEER'S OFFICE

PREPARED BY:

PROJECT NAME:  
URBAN HILL WATER EXTENSION  
PLAN VIEW SHEET

PROJECT LOCATION:  
URBAN HILL  
ZANESVILLE, OHIO 43701

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

HJ

DATE:

04/19/2023

REVISED:

SHEET SIZE:

11" x 17"

SHEET NAME:

PLAN VIEW  
RUSTIC RIDGE  
LAYOUT 14

SHEET NUMBER:

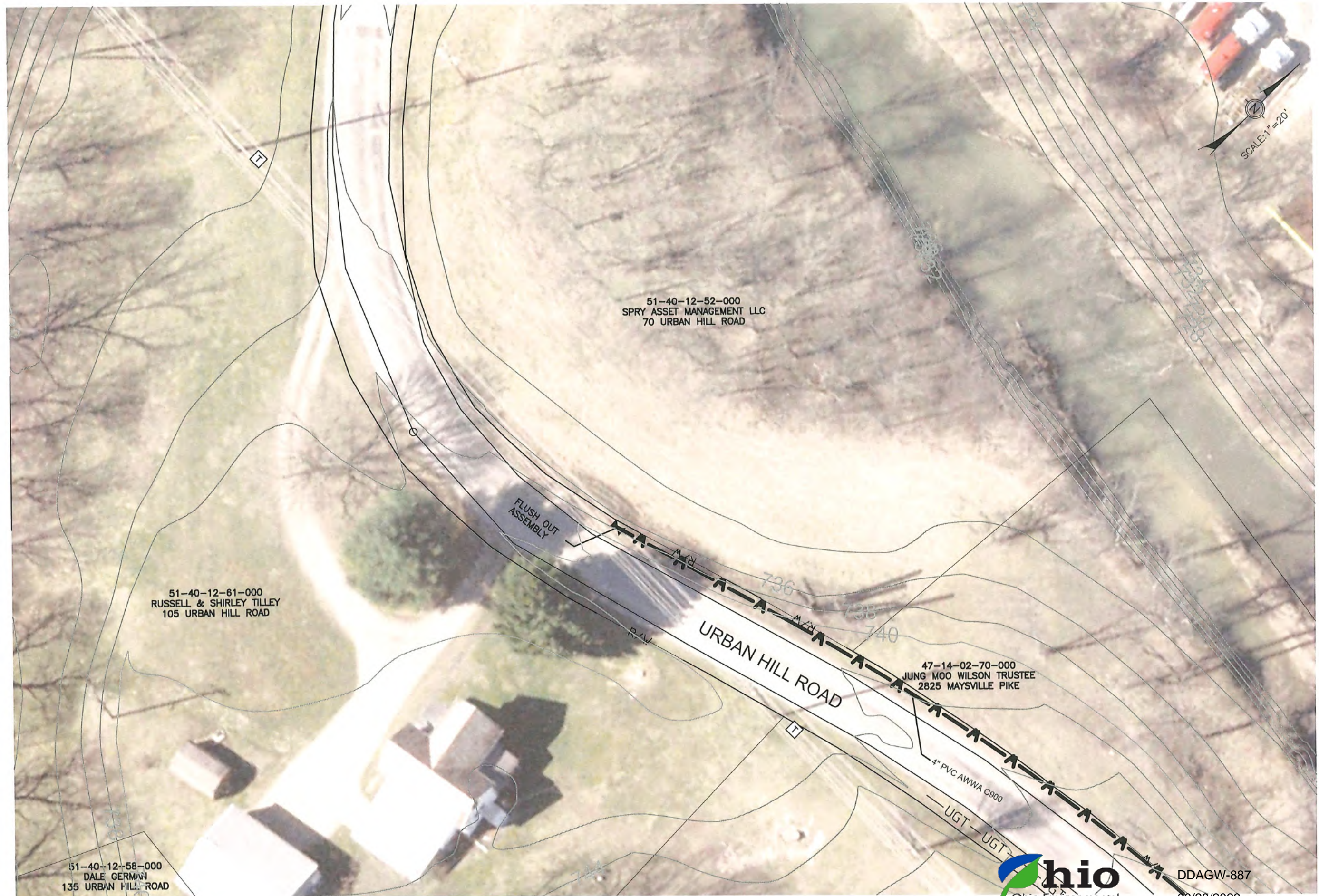
28  
42



Ohio Environmental  
Protection Agency

DDAGW-887  
08/28/2023





|   |   |
|---|---|
| PREPARED BY:<br><b>Mark J. Eicher, P.E., P.S.</b><br>155 Rehl Road<br>Zanesville, Ohio 43701<br><b>ENGINEER'S OFFICE 740-454-0155</b> |   |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET  | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701 |
| PLANS APPROVED BY:<br><br>MJE   |   |
| PLANS PREPARED BY:<br><br>HJ  |   |
| DATE:<br><br>04/19/2023   |   |
| REVISED:  |   |
| SHEET SIZE:<br><br>11" x 17"  |   |
| SHEET NAME:<br>PLAN VIEW<br>URBAN HILL<br>LAYOUT 1  |   |
| SHEET NUMBER:<br><div>29<br/>42</div>   |   |



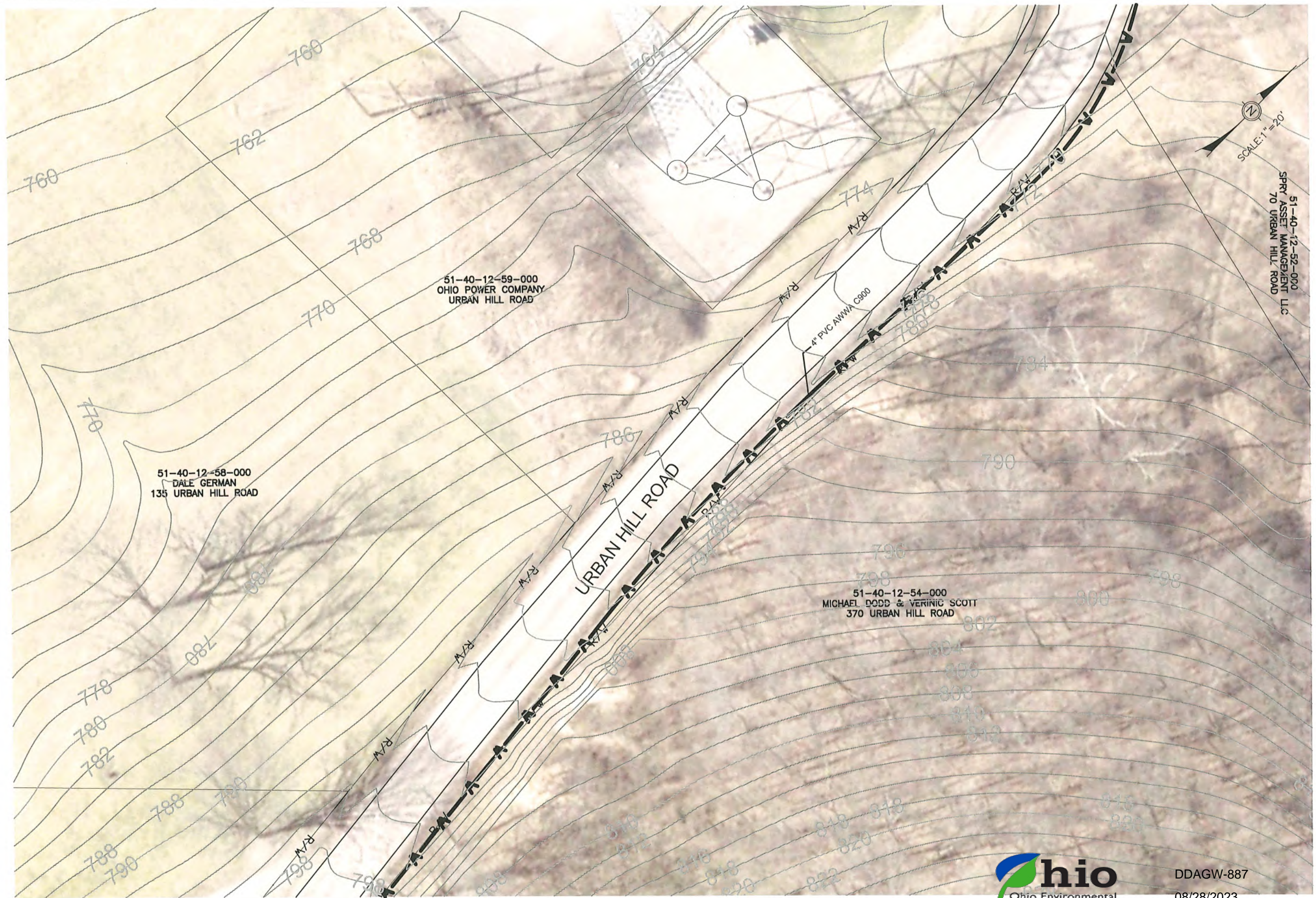
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08/28/2023





|   |   |
|---|---|
| <b>Mark J. Eicher, P.E., P.S.</b><br>155 Rehl Road<br>Zanesville, Ohio 43701<br><b>ENGINEER'S OFFICE 740-454-0155</b> |   |
| <b>Waskington</b><br><b>County</b><br><b>ENGINEER'S OFFICE</b>  |   |
| PREPARED BY:  |   |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET  | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701 |
| PLANS APPROVED BY:<br><br>MJE   |   |
| PLANS PREPARED BY:<br><br>HJ  |   |
| DATE:<br>04/19/2023   |   |
| REVISED:  |   |
| SHEET SIZE:<br>11" x 17"  |   |
| SHEET NAME:<br>PLAN VIEW<br>URBAN HILL<br>LAYOUT 2  |   |
| SHEET NUMBER:<br><div>30<br/>42</div>   |   |





Mark J. Elcher, P.E., P.S.  
155 Rehl Road  
Zanesville, Ohio 43701  
740-454-0155



PREPARED BY:

URBAN HILL WATER EXTENSION  
PLAN VIEW SHEET

PROJECT NAME: URBAN HILL  
PROJECT LOCATION: ZANESVILLE, OHIO 43701

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

HJ

DATE:

04/19/2023

REVISED:

SHEET SIZE:

11" x 17"

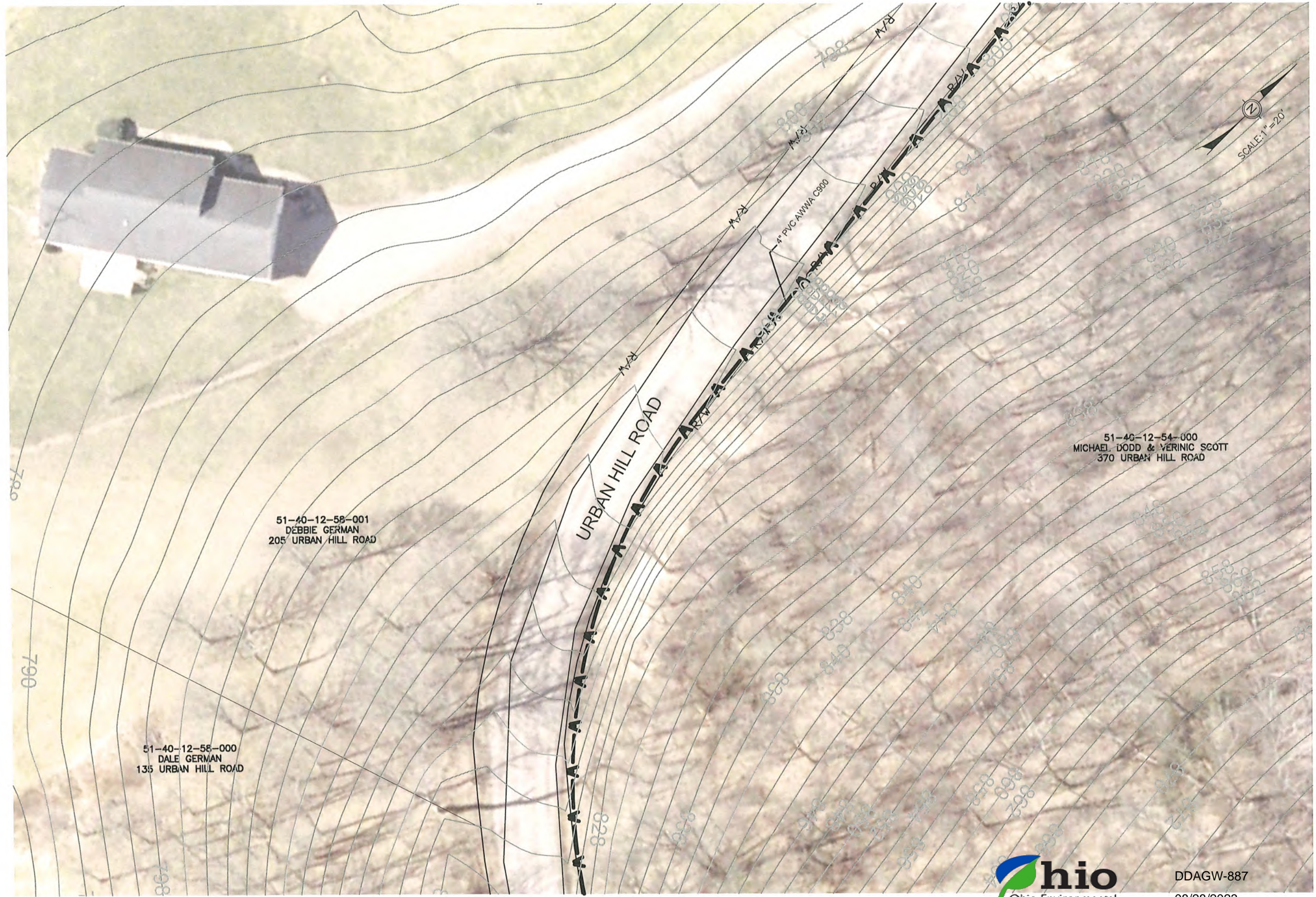
SHEET NAME:

PLAN VIEW  
URBAN HILL  
LAYOUT 3

SHEET NUMBER:

31  
42

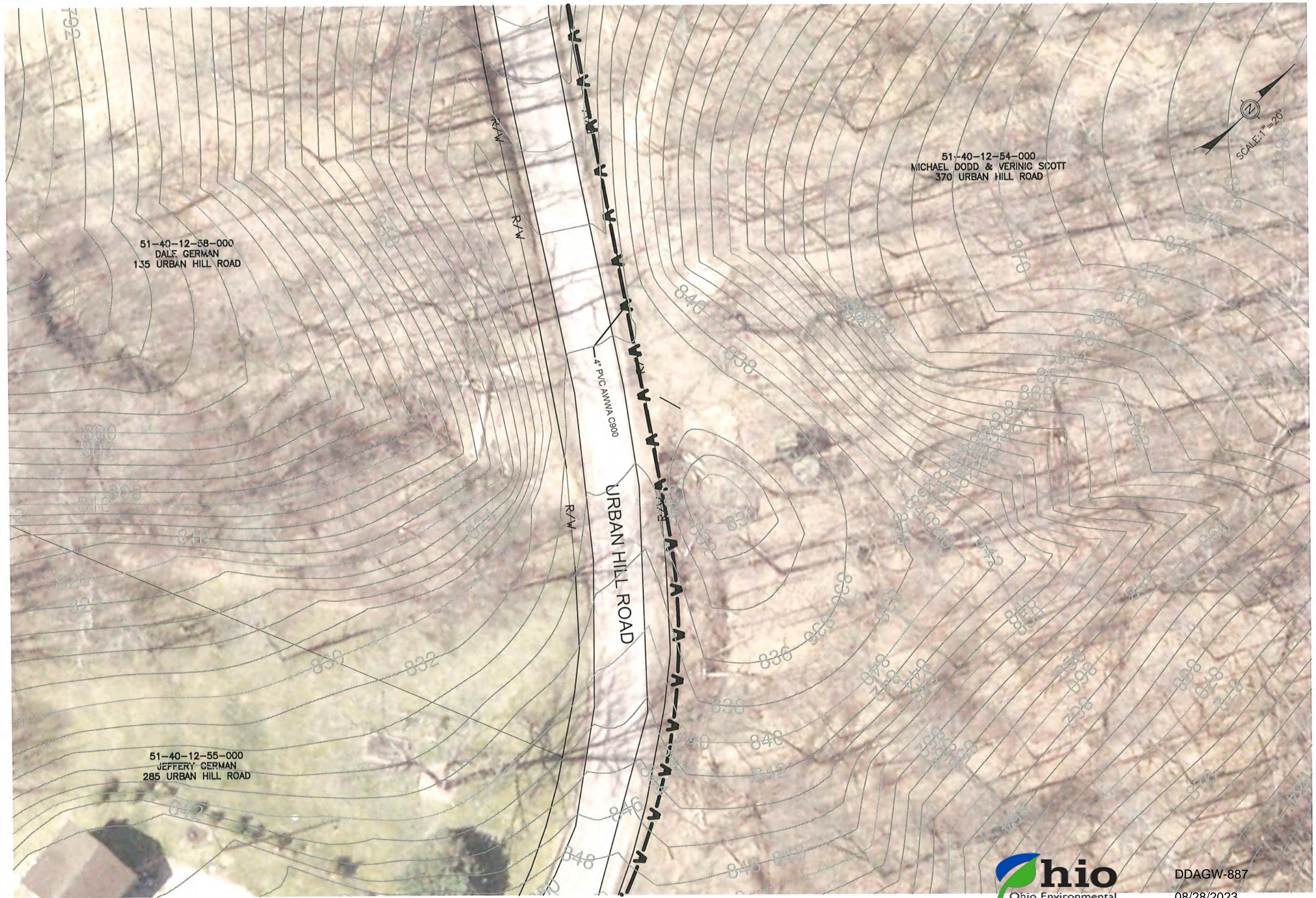




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|   |   |
|---|---|
| Mark J. Eicher, P.E., P.S.<br>155 Rehl Road<br>Zanesville, Ohio 43701<br>740-454-0155 |   |
| <b>Muskingum County</b><br>ENGINEER'S OFFICE  |   |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET                        | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701 |
| PLANS APPROVED BY:<br>MJE   |   |
| PLANS PREPARED BY:<br>HJ  |   |
| DATE:<br>04/19/2023   |   |
| REVISED:  |   |
| SHEET SIZE:<br>11" x 17"  |   |
| SHEET NAME:<br>PLAN VIEW<br>URBAN HILL<br>LAYOUT 4                                    |   |
| SHEET NUMBER:<br>32<br>42   |   |






|   |   |
|---|---|
| PREPARED BY:<br><b>Mark J. Eicher, P.E., P.S.</b><br>155 Rehl Road<br>Zanesville, Ohio 43701<br><b>Waskington</b><br><b>County</b><br><b>ENGINEER'S OFFICE</b> 740-454-0155 |   |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET  | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701 |
| PLANS APPROVED BY:<br><b>MJE</b>  |   |
| PLANS PREPARED BY:<br><b>HJ</b>   |   |
| DATE:<br>04/19/2023   |   |
| REVISED:  |   |
| SHEET SIZE:<br>11" x 17"  |   |
| SHEET NAME:<br>PLAN VIEW<br>URBAN HILL<br>LAYOUT 5  |   |
| SHEET NUMBER:<br><div>33<br/>42</div>   |   |

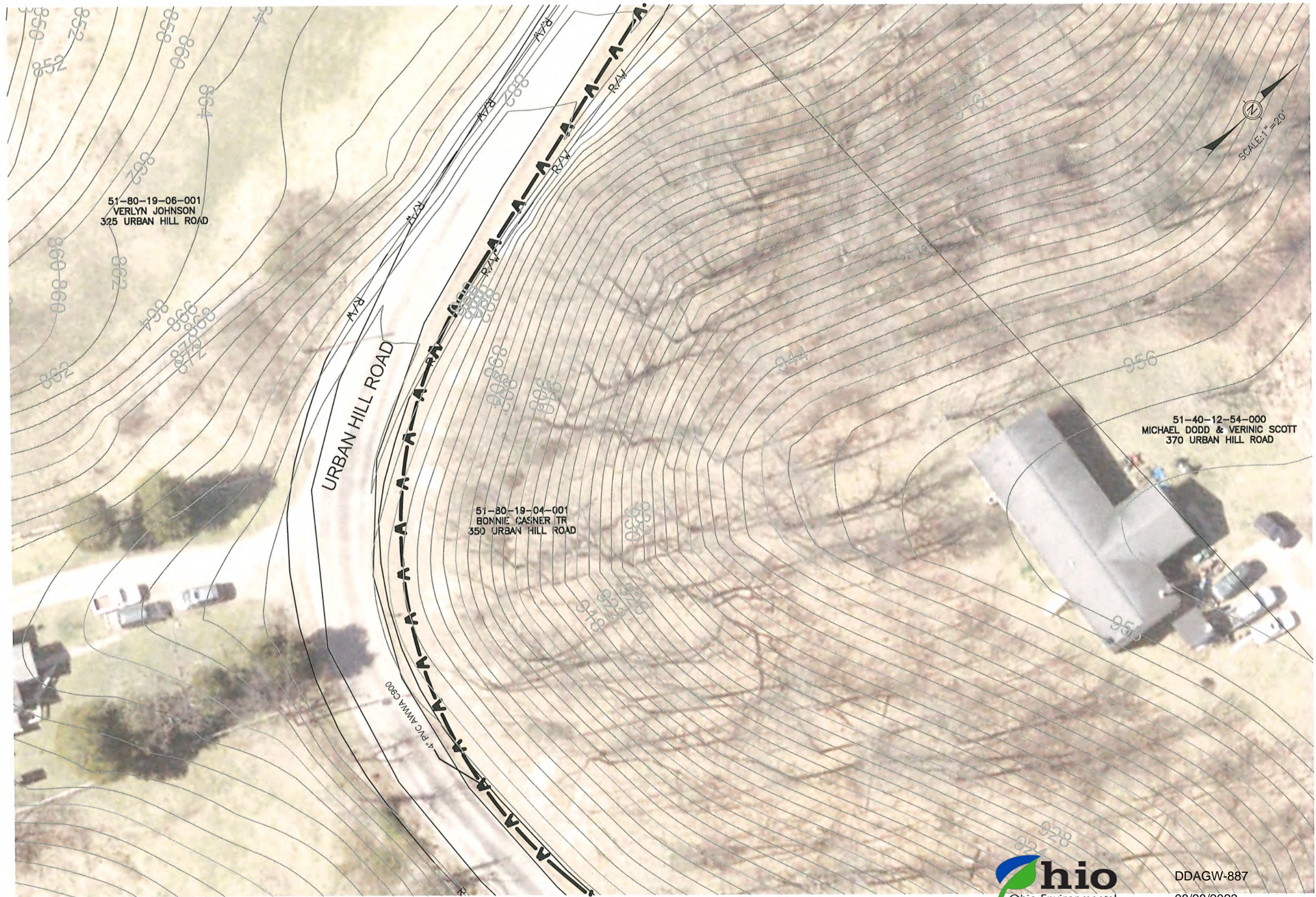




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| <div>Mark J. Eicher, P.E., P.S.<br/>155 Rehl Road<br/>Zanesville, Ohio 43701<br/>ENGINEER'S OFFICE 740-454-0155</div> <div><b>Muskingum</b><br/><b>County</b><br/><b>ENGINEER'S OFFICE</b></div> |   |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET  | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701 |
| PLANS APPROVED BY:<br>MJE   |   |
| PLANS PREPARED BY:<br>HJ  |   |
| DATE:<br>04/19/2023   |   |
| REVISED:  |   |
| SHEET SIZE:<br>11" x 17"  |   |
| SHEET NAME:<br>PLAN VIEW<br>URBAN HILL<br>LAYOUT 6  |   |
| SHEET NUMBER:<br>34<br>42   |   |

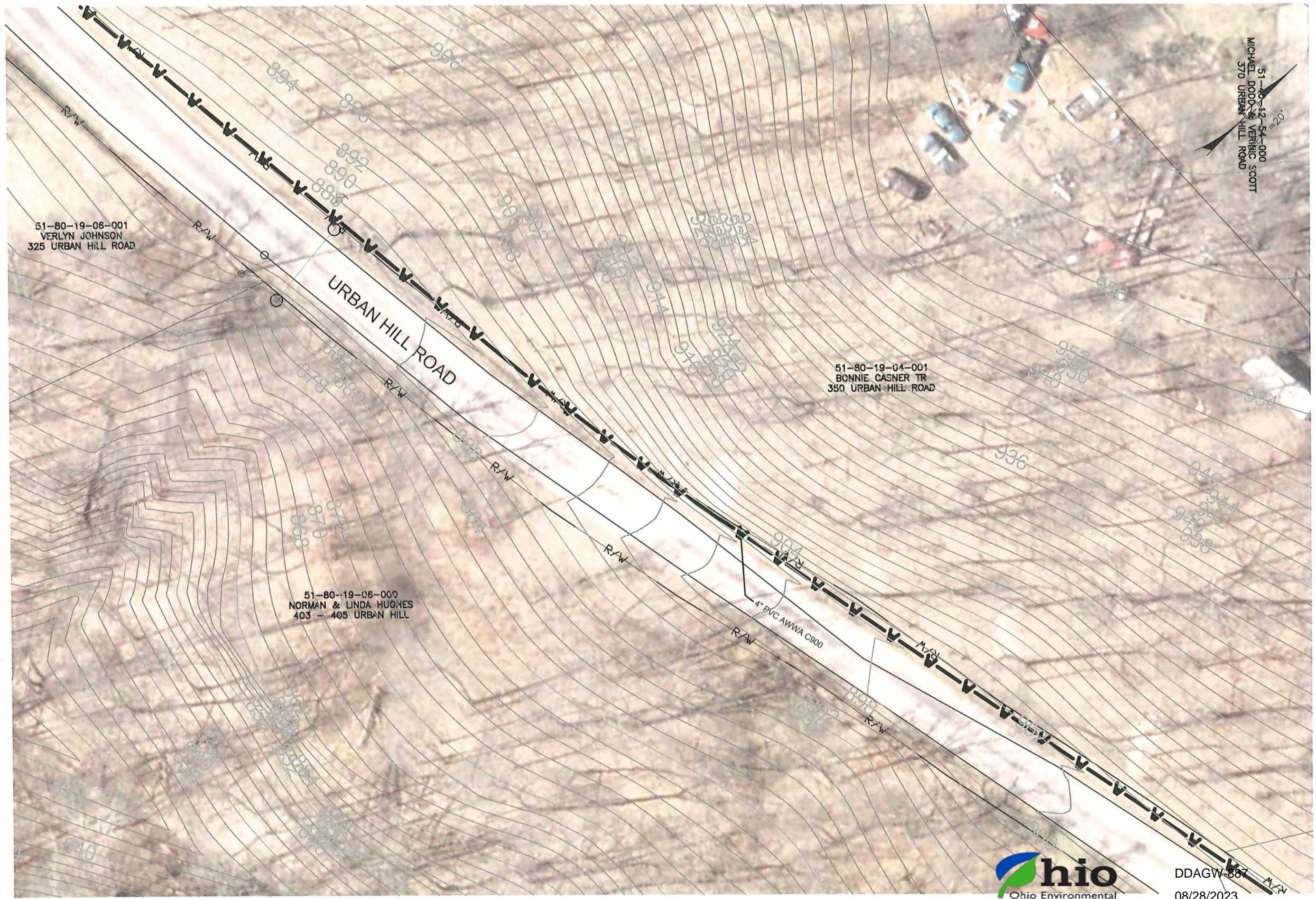




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08/28/2023

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|---|---|
| PREPARED BY:<br><b>Muskingum County</b><br>ENGINEER'S OFFICE 740-454-0155 |   |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET            | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701 |
| PLANS APPROVED BY:<br>MJE   |   |
| PLANS PREPARED BY:<br>HJ  |   |
| DATE:<br>04/19/2023   |   |
| REVISED:  |   |
| SHEET SIZE:<br>11" x 17"  |   |
| SHEET NAME:<br>PLAN VIEW<br>URBAN HILL<br>LAYOUT 7                        |   |
| SHEET NUMBER:<br>35<br>42   |   |





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| <b>Muskingum County</b><br>ENGINEER'S OFFICE  |   |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET                        | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701 |
| PLANS APPROVED BY:<br>MJE   |   |
| PLANS PREPARED BY:<br>HJ  |   |
| DATE:<br>04/19/2023   |   |
| REVISED:  |   |
| SHEET SIZE:<br>11" x 17"  |   |
| SHEET NAME:<br>PLAN VIEW<br>URBAN HILL<br>LAYOUT 8                                    |   |
| SHEET NUMBER:<br>36<br>42   |   |

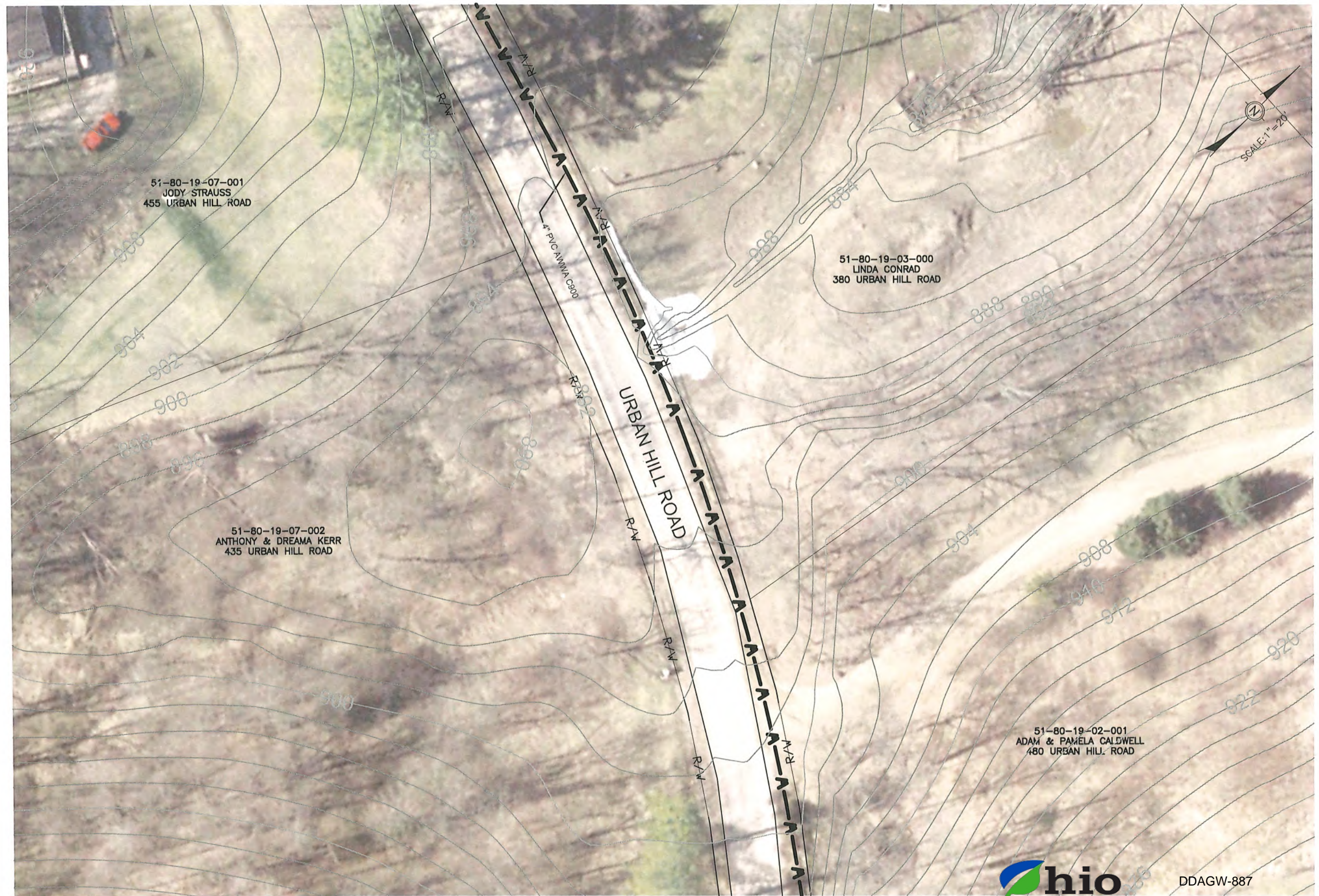




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|--|---|
| <b>Mark J. Eicher, P.E., P.S.</b><br>155 Rehl Road<br>Zanesville, Ohio 43701<br>740-454-0155 |   |
| <b>Wiskingum</b><br><b>County</b><br><b>ENGINEER'S OFFICE</b>                                |   |
| PREPARED BY:   |   |
| PROJECT NAME:  | URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET |
| PROJECT LOCATION:  | URBAN HILL<br>ZANESVILLE, OHIO 43701          |
| PLANS APPROVED BY:   | MJE   |
| PLANS PREPARED BY:   | HJ  |
| DATE:  | 04/19/2023                                    |
| REVISED:   |   |
| SHEET SIZE:  | 11" x 17"                                     |
| SHEET NAME:  | PLAN VIEW<br>URBAN HILL<br>LAYOUT 9           |
| SHEET NUMBER:  | 37<br>42                                      |









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|---|---|
| <b>Mark J. Eicher, P.E., P.S.</b><br><b>155 Rehl Road</b><br><b>Zanesville, Ohio 43701</b><br><b>740-454-0155</b> |   |
| <b>W. Muskingum</b><br><b>County</b><br><b>ENGINEER'S OFFICE</b>  |   |
| PROJECT NAME:<br>URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET  | PROJECT LOCATION:<br>URBAN HILL<br>ZANESVILLE, OHIO 43701 |
| PLANS APPROVED BY:<br>MJE   |   |
| PLANS PREPARED BY:<br>HJ  |   |
| DATE:<br>04/19/2023   |   |
| REVISED:  |   |
| SHEET SIZE:<br>11" x 17"  |   |
| SHEET NAME:<br>PLAN VIEW<br>URBAN HILL<br>LAYOUT 11   |   |
| SHEET NUMBER:<br>39<br>42   |   |





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08/28/2023

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|---|---|
| Mark J. Eicher, P.E., P.S.<br>155 Rehl Road<br>Zanesville, Ohio 43701<br>ENGINEER'S OFFICE 740-454-0155 |   |
| PREPARED BY:  | Mark J. Eicher, P.E., P.S.                    |
| PROJECT NAME:   | URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET |
| PROJECT LOCATION:   | URBAN HILL<br>ZANESVILLE, OHIO 43701          |
| PLANS APPROVED BY:  | MJE   |
| PLANS PREPARED BY:  | HJ  |
| DATE:   | 04/19/2023                                    |
| REVISED:  |   |
| SHEET SIZE:   | 11" x 17"                                     |
| SHEET NAME:   | PLAN VIEW<br>URBAN HILL<br>LAYOUT 12          |
| SHEET NUMBER:   | 40<br>42                                      |



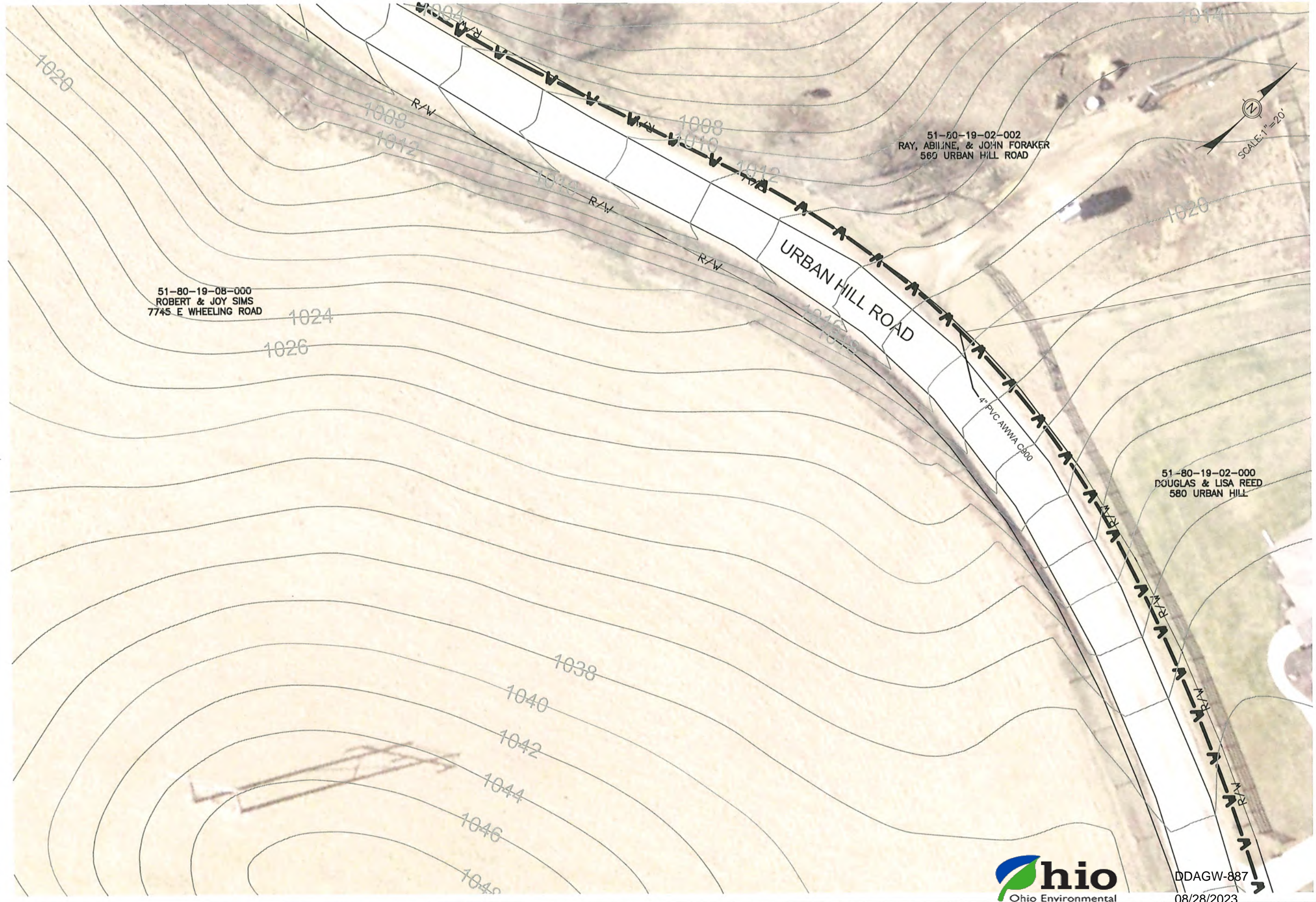


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|---|---|
| <b>Markuskingum</b><br><b>County</b><br><b>ENGINEER'S OFFICE</b>                      |   |
| Mark J. Eicher, P.E., P.S.<br>155 Rehl Road<br>Zanesville, Ohio 43701<br>740-454-0155 |   |
| PROJECT NAME:   | URBAN HILL WATER EXTENSION<br>PLAN VIEW SHEET |
| PROJECT LOCATION:   | URBAN HILL<br>ZANESVILLE, OHIO 43701          |
| PLANS APPROVED BY:  | MJE   |
| PLANS PREPARED BY:  | HJ  |
| DATE:   | 04/19/2023                                    |
| REVISED:  |   |
| SHEET SIZE:   | 11" x 17"                                     |
| SHEET NAME:   | PLAN VIEW<br>URBAN HILL<br>LAYOUT 13          |
| SHEET NUMBER:   | 41<br>42                                      |



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Mark J. Eicher, P.E., P.S.  
155 Rehl Road  
Zanesville, Ohio 43701  
740-434-0155

**Muskingum County**  
ENGINEER'S OFFICE

PROJECT NAME:  
URBAN HILL WATER EXTENSION  
PLAN VIEW SHEET

PROJECT LOCATION:  
URBAN HILL  
ZANESVILLE, OHIO 43701

PLANS APPROVED BY:  
  
MJE

PLANS PREPARED BY:  
  
HJ

DATE:  
  
04/19/2023

REVISED:

SHEET SIZE:  
  
11" x 17"

SHEET NAME:  
PLAN VIEW  
URBAN HILL  
LAYOUT 14

SHEET NUMBER:  

42  
42

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08/28/2023