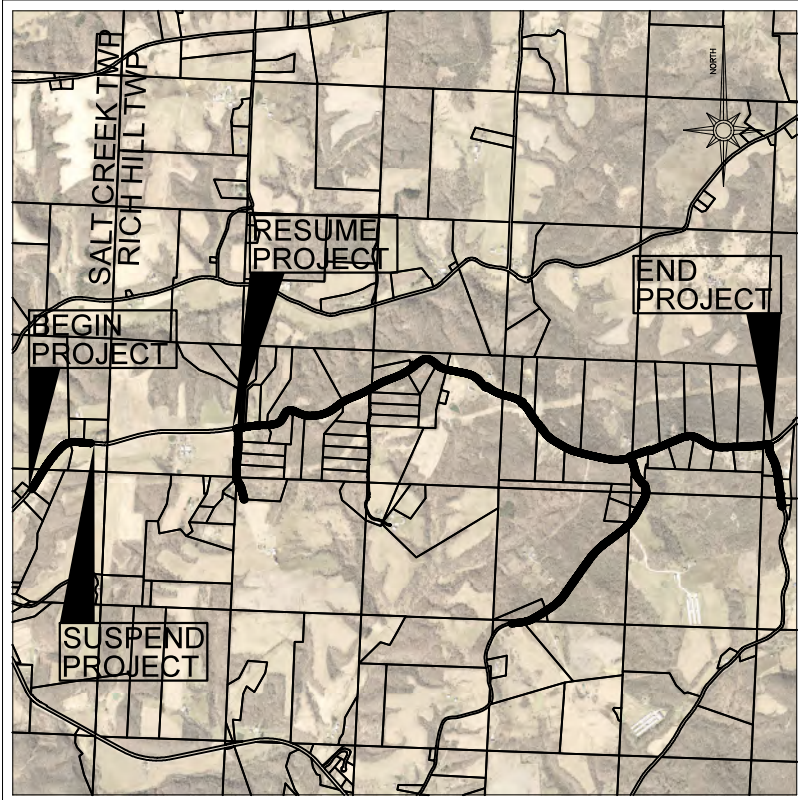


CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

SALT CREEK & RICH HILL TOWNSHIPS
MUSKINGUM COUNTY, OHIO

PROJECT DESCRIPTION

THE CONSTRUCTION OF A WATERLINE EXTENSION ON CLAYSVILLE ROAD FROM 9675 CLAYSVILLE ROAD TO 9945 CLAYSVILLE ROAD AND FROM HARDY LANE TO HERRON ROAD. ALSO CONSTRUCTION OF WATERLINE EXTENSIONS ON HARDY LANE, N LEEDOM ROAD, AND HERRON ROAD.



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NOTE TO 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.

CINDY S. CAMERON, PRESIDENT
MUSKINGUM COUNTY COMMISSIONER

DATE

MOLLIE S. CROOKS
MUSKINGUM COUNTY COMMISSIONER

DATE

MELISSA J. BELL
MUSKINGUM COUNTY COMMISSIONER

DATE

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

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

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

ENGINEER'S SEAL:

DATE: 03/21/2024

REVISIONS:

SHEET SIZE: 11" x 17"

SHEET NAME: TITLE

SHEET NUMBER: 01/62

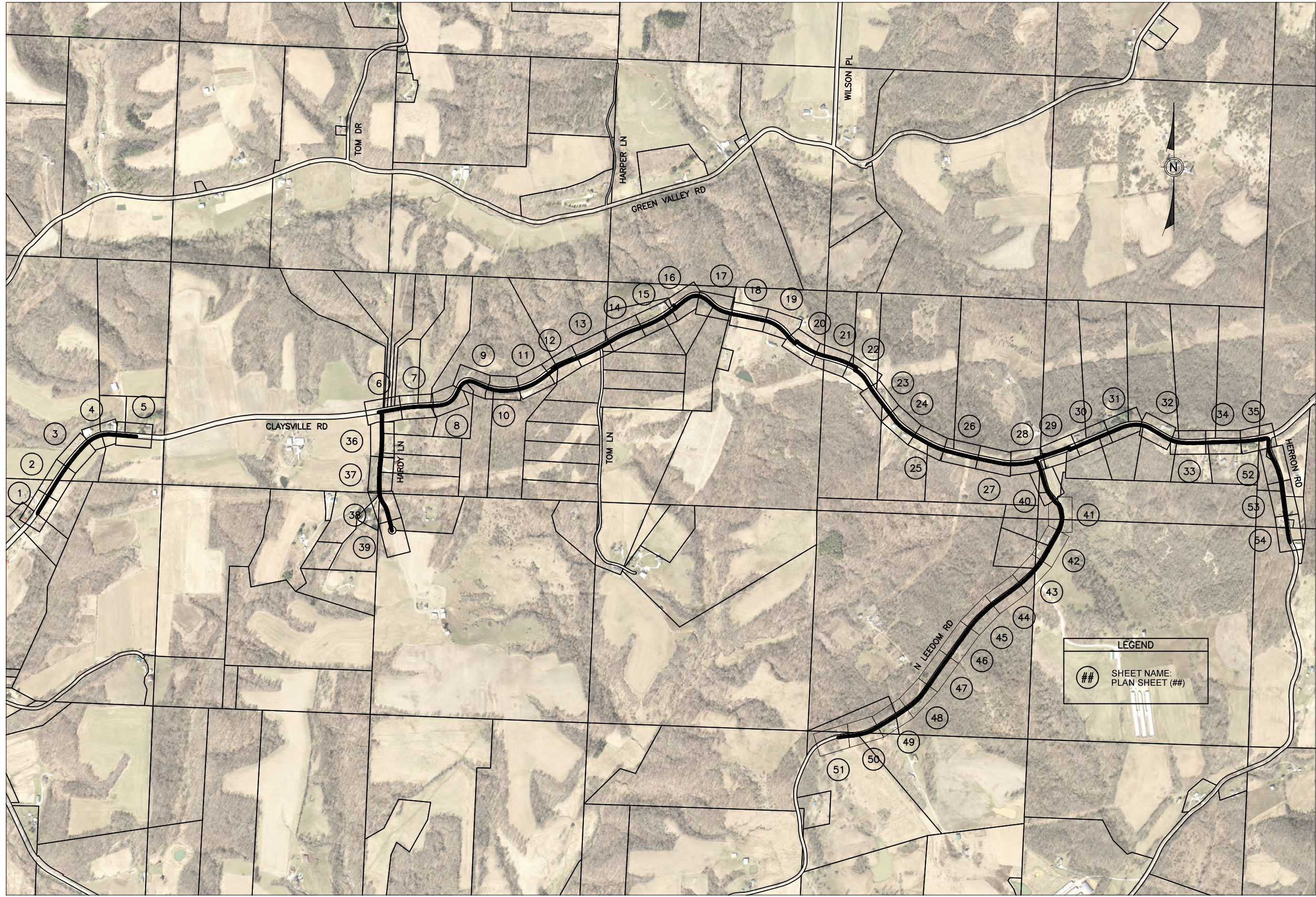
SIGNED: _____
DATE: _____

Mark J. Eicher, P.E., P.S.
Muskingum County
109 Graham Street
Zanesville, Ohio 43701
ENGINEER'S OFFICE 740-454-0155

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PROJECT LOCATION: CHANDLERSVILLE, OHIO 43727

PLANS APPROVED BY: MJE

PLANS PREPARED BY: GJW



PREPARED BY: Muskingum COUNTY ENGINEER'S OFFICE	
Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 740-454-0155	
PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION	PROJECT LOCATION: CHANDLERSVILLE, OHIO 43727
PLANS APPROVED BY: MJE	
PLANS PREPARED BY: GJW	
DATE: 02/08/2024	
REVISED:	
SHEET SIZE: 11" x 17"	
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SHEET NUMBER: <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> 02 62 </div>	



LIGHT POLE



EXISTING FIRE HYDRANT



EXISTING GAS VALVE



EXISTING ELECTRIC RISER/PULL BOX



STOP CHECK VALVE



LIGHT/POWER POLE



PROPOSED FIRE HYDRANT



PROPOSED GAS VALVE



PROPOSED ELECTRIC RISER/PULL BOX



EXISTING MAILBOX



POWER POLE



EXISTING WATER GATE VALVE



EXISTING GAS SERVICE STOP



EXISTING ELECTRIC METER



PROPOSED MAILBOX



POWER POLE



PROPOSED WATER GATE VALVE



PROPOSED GAS SERVICE STOP



PROPOSED ELECTRIC METER



MAILBOX



TELECOM POLE



EXISTING WATER METER



EXISTING GAS LINE VENT



EXISTING ELECTRIC MANHOLE



EXISTING TREE



LIGHT/TELECOM POLE



PROPOSED WATER METER



EXISTING SANITARY SEWER MANHOLE



PROPOSED ELECTRIC MANHOLE



EXISTING EVERGREEN TREE



TELECOM/LIGHT/POWER POLE



EXISTING WATER MANHOLE



PROPOSED SANITARY SEWER MANHOLE



EXISTING TELECOM MANHOLE



EXISTING SHRUB



UNKNOWN POLE



PROPOSED WATER MANHOLE



EXISTING SEPTIC TANK



PROPOSED TELECOM MANHOLE



EXISTING STONE FOUND



SIGN POLE



EXISTING CATCH BASIN NO. 2 - 2B



PROPOSED SEPTIC TANK



EXISTING TELEPHONE PEDESTAL



EXISTING LARGE ROCK



GUY WIRE ANCHOR



PROPOSED CATCH BASIN NO. 2 - 2B



EXISTING SEWER PUMP STATION



PROPOSED TELEPHONE PEDESTAL



GRINDER PUMP



CELLPHONE TOWER



EXISTING GAS METER



EXISTING SANITARY SEWER VALVE



EXISTING UNKNOWN PULL BOX



SPRING DEVELOPED



EXISTING TOWER



PROPOSED GAS METER



PROPOSED SANITARY SEWER VALVE



EXISTING UNKNOWN MANHOLE



SIGNAL PEDESTAL



HALF HEADWALL



EXISTING GAS MANHOLE



EXISTING SANITARY SEWER LINE VENT



EXISTING UNKNOWN UTILITY VALVE



PRIVATE/PUBLIC SIGN



HEADWALL



PROPOSED GAS MANHOLE



CLEAN OUT



PLUG VALVE

LINE TYPES

- W-W-W-W-W-W-W-W-W- EXISTING WATER LINE
- S-S-S-S-S-S-S-S-S- EXISTING SANITARY LINE
- E-E-E-E-E-E-E-E-E- EXISTING OVERHEAD ELECTRIC LINE
- UGE ——— UGE ——— EXISTING UNDERGROUND ELECTRIC
- G-G-G-G-G-G-G-G-G- EXISTING GAS LINE
- T-T-T-T-T-T-T-T-T- EXISTING OVERHEAD TELECOM LINE
- UGT ——— UGT ——— EXISTING UNDERGROUND TELECOM
- U-U-U-U-U-U-U-U-U- EXISTING UTILITY LINE
- EXISTING UNDERDRAIN
- V-V-V-V-V-V-V-V-V- EXISTING VEGETATION
- X-X-X-X-X-X-X-X-X- EXISTING FENCE
- ST-ST-ST-ST-ST-ST- EXISTING STORM LINE
- - - - - EXISTING SIDEWALK
- - - - - EXISTING SHOULDER
- EXISTING RIGHT OF WAY
- XL/A ——— XL/A ——— EXISTING LIMITED ACCESS
- XRR ——— XRR ——— EXISTING RAILROAD RIGHT OF WAY
- W ——— W ——— W ——— W ——— W ——— PROPOSED WATER LINE
- PROPOSED SANITARY LINE
- FM ——— FM ——— PROPOSED FORCEMAIN
- AFM ——— AFM ——— ABANDONED FORCEMAIN
- F-F-F-F-F-F-F-F-F- PROPOSED FENCE
- PROPOSED STORM LINE
- S/W ——— S/W ——— PROPOSED EASEMENT

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 OF 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 LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY AS REQUIRED BY SECTION 153.64 OR SECTION 3781.27 OF THE OHIO REVISED CODE, THE COUNTY AND THE ENGINEER ASSUME NO RESPONSIBILITY FOR THE ACCURACY OF LOCATIONS OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.

THE CONTRACTOR SHALL DESIGNATE FOR EXISTING UTILITIES AROUND ALL PROPOSED STRUCTURES BEFORE DIGGING TO VERIFY NO CONFLICTS EXIST. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING DESIGNATION AND/OR CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER, THE COUNTY AND THE ENGINEER.

THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT (1-800-362-2764) AT LEAST 48 HOURS, AND NO MORE THAN 10 DAYS PRIOR TO EXCAVATING WITH SUCH TIME PERIODS NOT INCLUDING WEEKENDS OR HOLIDAYS. CONTRACTOR SHALL SIMILARLY CONTACT ALL UTILITY OWNERS WHO ARE NOT SUBSCRIBERS TO OUPS.

IF THERE ARE MARKERS OR OTHER APPARENT PHYSICAL EVIDENCE IN OUR NEAR THE PROJECT AREA THAT MAY INDICATE THE EXISTENCE OF UNDERGROUND PETROLEUM OR NATURAL GAS PIPELINES, THE CONTRACTOR SHALL ADDITIONALLY CONTACT THE OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (OGPUPS) AT 800-925-0988, TOLL FREE SAID NOTIFICATION SHALL BE GIVEN A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

THE FOLLOWING UTILITIES ARE KNOWN OR CAN BE EXPECTED TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:

UTILITY	OWNER	PHONE NUMBER
GAS/PETROLEUM	ENERGEX POWER INC	724.622.0093
GAS/PETROLEUM	ASPIRE ENERGY (FORMERLY GATHERCO)	330.682.7726
GAS/PETROLEUM	TALL GRASS ROCKIES EXPRESS PIPELINE	303.763.2950
GAS/PETROLEUM	THE ENERGY COOPERATIVE	740.454.7252
GAS/PETROLEUM	ARTEX OIL COMPANY	740.373.3313
GAS/PETROLEUM	OWS ACQUISITIONS LLC	330.874.3781
ELECTRIC	AEP OHIO	614.716.1000
ELECTRIC	GUERNSEY MUSKINGUM ELECTRIC	800.521.9879
WATER	MUSKINGUM COUNTY WATER DEPT	740.453.0678
COMMUNICATIONS	AT&T OHIO	740.454.3455
COMMUNICATIONS	CHARTER/SPECTRUM COMMUNICATIONS	888.369.2408

THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL PROCEED WITH THE WORK AND PROTECT ALL UNDERGROUND UTILITIES IN A MANNER AT LEAST AS CAUTIOUS AND PROTECTIVE OF SAFETY AND UNDERGROUND UTILITIES AS THOSE METHODS IDENTIFIED IN SECTIONS 3781.25 THROUGH 3781.30 OF THE OHIO REVISED CODE.

ALL MARKED PRIVATE UTILITY REPAIRS OR RELOCATION (GAS, ELECTRIC, PHONE, ETC.) WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ANY REPAIRS OR RELOCATION OF UNMARKED PRIVATE UTILITIES (GAS, ELECTRIC, PHONE, ETC.) SHALL BE THE RESPONSIBILITY OF THE UTILITY OWNER. ANY REPAIRS OR RELOCATION OF UNMARKED PUBLIC UTILITIES SUCH AS WATER SHALL BE THE RESPONSIBILITY OF THE UTILITY OWNER. ANY REPAIRS TO WATER SERVICE LINES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM SPECIAL WATER SERVICE LINE REPAIR, A QUANTITY OF 20 WATER SERVICE LINE REPAIR UNITS HAVE BEEN INCLUDED IN THE ESTIMATED QUANTITIES FOR THIS PROJECT.

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 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" 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" DIAMETER OR LESS SHALL BE PVC AWWA C900, DR-18. IN CASE OF CONFLICT IN GRADE BETWEEN WATER LINES AND STORM SEWERS, CONTACT OWNER FOR CONCURRENCE BEFORE LOWERING WATER LINES.

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 OR 1 1/2 TIMES WORKING PRESSURE. THE NORMAL WORKING PRESSURE FOR THE WATER MAIN SHALL NOT BE LESS THAN 35 PSI. ANY TAPPING SLEEVES REQUIRED SHALL BE STAINLESS STEEL. INCLUDING BOLTS AND ACCESSORIES.

WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED GRAVITY SANITARY OR STORM SEWER, SEPTIC TANK, OR SURFACE TREATMENT SYSTEM. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.

WATER MAINS CROSSING SANITARY OR STORM SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER WITH PREFERENCE TO THE WATER MAIN LOCATED ABOVE THE SEWER.

AT CROSSINGS, ON FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.

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 WILL BE USED, THE TABLETS SHALL BE FIXED TO THE PIPE WITH PERMATAX. OWNER WILL ALSO SAMPLE WATER MAINS FOR PROPER CHLORINATION.

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' LONG, 4" SQUARE WOOD POLE EXTENDING 3' IN THE GROUND. THE TOP OF THE POLE WILL BE PAINTED BLUE FOR AT LEAST 1'. SERVICE CONNECTIONS BY CONTRACTOR SHALL BE MADE BY TAPPING THROUGH A SERVICE CLAMP OR SADDLE PROVIDING FULL 360° 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:

TAPE SHALL BE LAID NO LESS THAN 18" ABOVE THE MAIN LINE PIPE. FOIL-BASED TAPE WILL NOT BE ALLOWED.

TRACER WIRE:

TRACER WIRE SHALL BE TAPED TO THE TOP OF WATER MAINS AND SERVICE CONNECTIONS. TRACER WIRE USED SHALL BE COPPERHEAD WIRE OR APPROVED EQUAL AND BE MADE OF 12 GAUGE WIRE. TRACER WIRE USED AT DIRECTIONAL DRILL (BORE) LOCATIONS SHALL BE COPPERHEAD WIRE SPECIFIED FOR DIRECTIONAL DRILLING OR APPROVED EQUAL. ALL LOCATE TRACER 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. VALVES SHALL INCLUDE STAINLESS STEEL BOLTS AND TRIM.

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 3139 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 15" WITH HOLE FOR TOUCH READ DEVICE.

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.

HYDRANT DRAINS SHALL NOT BE LOCATED WITHIN 10 FEET OF SANITARY SEWERS, STORM SEWERS, OR STORM INLETS.

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

WATERLINE SYSTEM PRESSURE REQUIREMENTS:

THE SYSTEM SHALL BE DESIGNED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI (140 KPA) AT GROUND LEVEL AT ALL POINTS IN THE DISTRIBUTION SYSTEM UNDER ALL CONDITIONS OF FLOW. THE NORMAL WORKING PRESSURE IN THE DISTRIBUTION SYSTEM SHOULD BE APPROXIMATELY 60 TO 80 PSI (410 TO 550 KPA) AND SHALL NOT BE LESS THAN 35 PSI (240 KPA) UNLESS OTHERWISE APPROVED BY THE REVIEWING AUTHORITY.

PRESENCE OF HIGH PRESSURE GAS MAINS:

PROJECT IMPROVEMENTS WILL CROSS EXISTING HIGH PRESSURE GAS MAINS. CONTRACTOR SHOULD TAKE EXTRA PRECAUTIONS WHEN WORKING OVER THESE GAS MAINS. UTILIZE A REPUTABLE UTILITY LOCATING SERVICE TO DETERMINE THE EXACT LOCATION AND COORDINATE PROPOSED WATERLINE WORK WITH THE OWNER(S) OF THESE GAS MAINS BEFORE EXCAVATION COMMENCES.



PREPARED BY:

CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT NAME

PROJECT LOCATION

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

03/21/2024

REVISED:

SHEET SIZE:

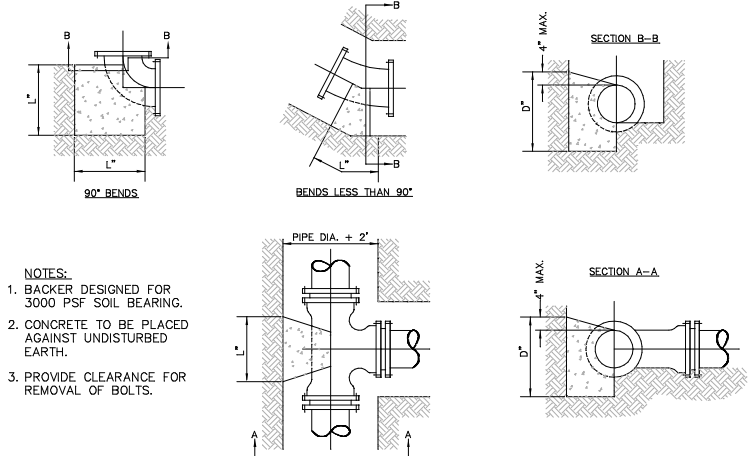
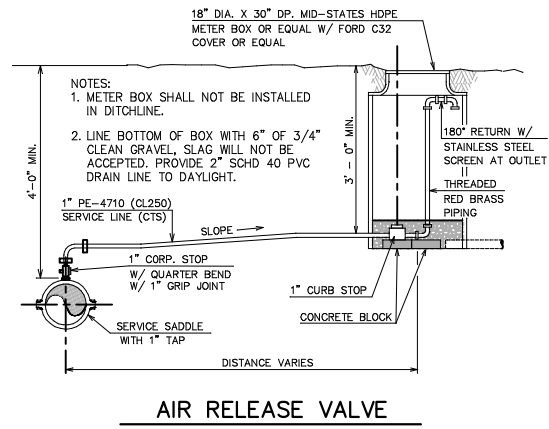
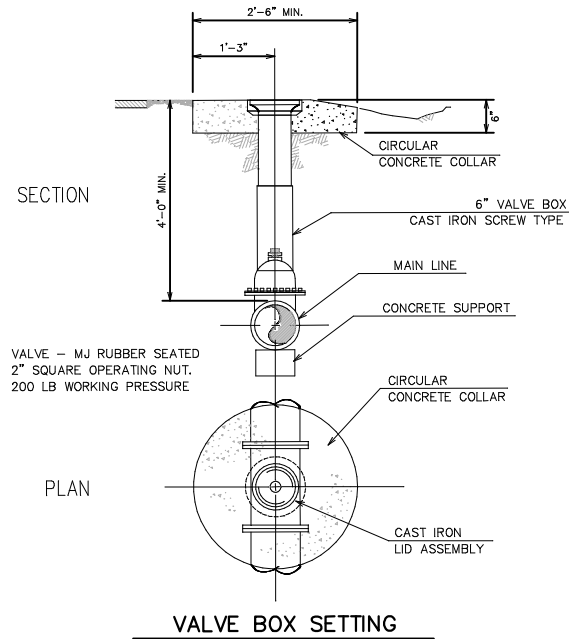
11" x 17"

SHEET NAME:

GENERAL NOTES

SHEET NUMBER:

04
62

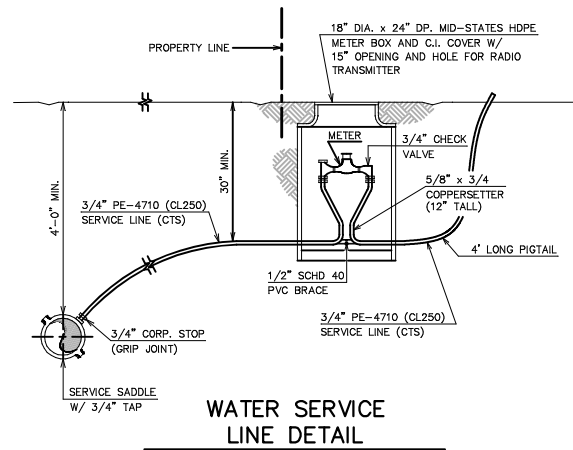


SIZE OF PIPE	BENDS						TEES				
	DEGREE OF BEND						BRANCH				
	11 1/4"	22 1/2"	45°	90°		3"	4"	6"	8"	12"	16"
	L"	D"	L"	D"	L"	D"	L"	D"	L"	D"	L"
3"	8	6	10	6	20	6	36	8	3"	16	7
4"	8	6	10	6	20	6	36	8	4"	16	7
6"	8	6	12	7	20	8	36	9	6"	16	7
8"	9	8	16	9	24	12	50	11	8"	14	8
12"	14	12	24	14	36	18	60	18	12"	14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

STEEL WILL BE USED AS REQUIRED BY ENGINEER

STEEL WILL BE USED AS REQUIRED BY ENGINEER

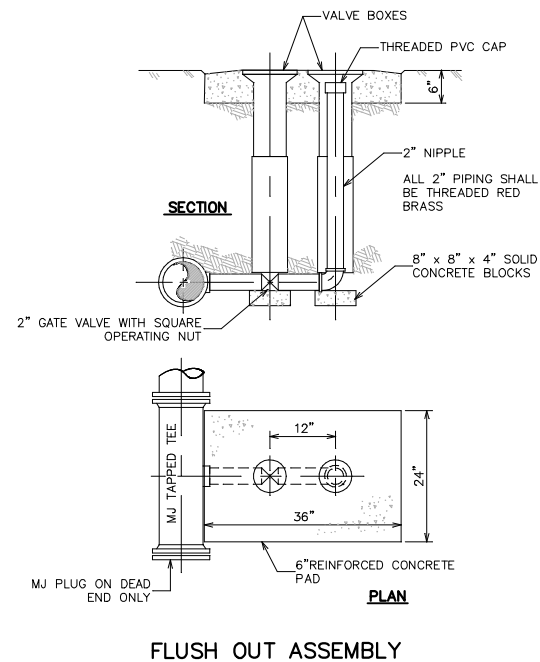
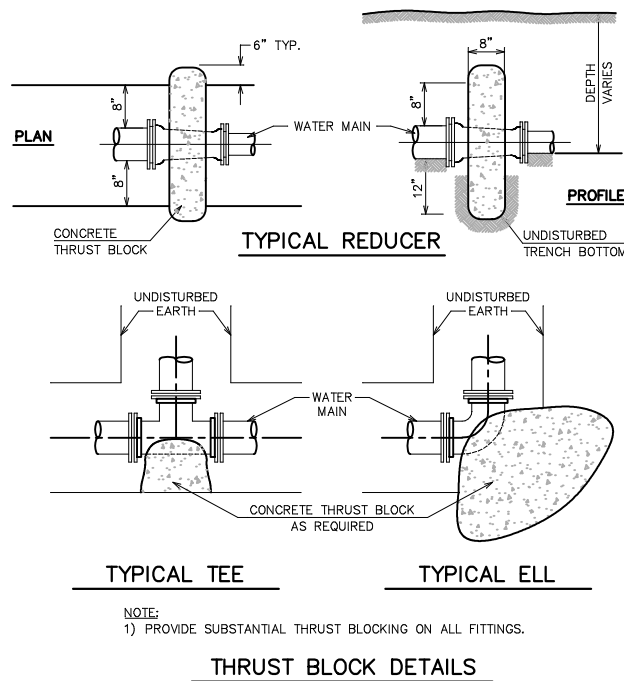
MINIMUM REQUIREMENTS



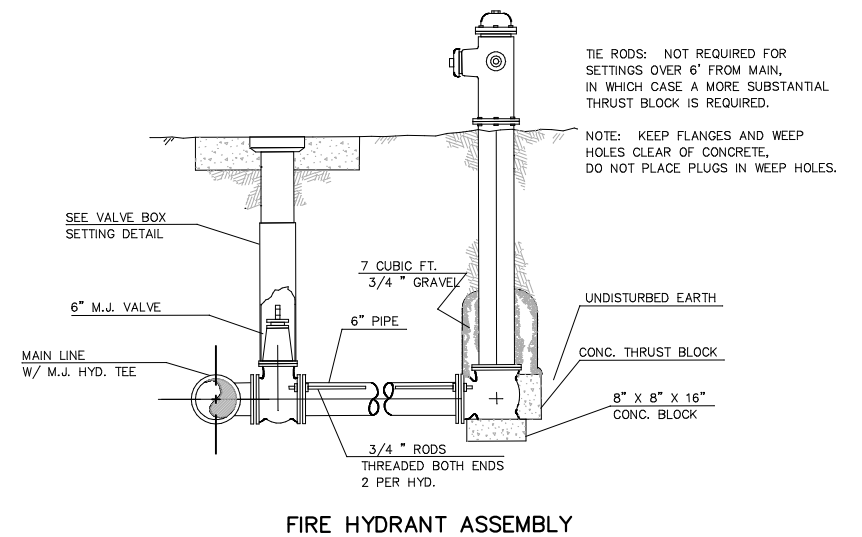
THRUST BLOCK NOTES

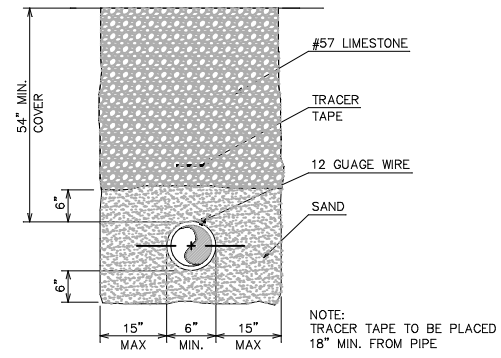
- KEEP CONCRETE CLEAR OF JOIN AND ACCESSORIES.
- CONCRETE THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.
- REQUIRED BEARING AREAS AT FITTINGS SHALL BE AS INDICATED BELOW, ADJUSTED, IF NECESSARY, TO CONFORM TO THE TEST PRESSURE(S) AND ALLOWABLE SOIL BEARING STRESS(ES) STATED IN THE SPECIFICATIONS.
- BEARING AREAS FOR HORIZONTAL BEND THRUST BLOCKS ARE BASED ON TEST PRESSURE OF 100 PSIG AND AN ALLOWABLE SOIL BEARING STRESS OF 1,000 LBS/SQ. FT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING = (TEST PRESS./100) x (1000/SOIL BEARING STRESS) x (TABLE VALUE).
- THRUST BLOCKS FOR VERTICAL BENDS HAVING DOWNWARD RESULTANT THRUSTS SHALL BE THE SAME AS FOR HORIZONTAL BENDS.
- BEARING AREAS, VOLUMES, AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER THIS STANDARD.
- BEARING AREA OF THRUST BLOCK SHALL NOT BE LESS THAN 1.0 SQ. FT.

FITTING SIZE	BEARING AREA OF THRUST BLOCKS IN SQ. FT. (HORIZONTAL BENDS, 100 PSI PRESSURE)				
	TEE, WYE, PLUG, OR CAP	90° BEND PLUGGED CROSS	BEND ANGLE		
			45°	22 1/2°	11 1/4°
3", 4", 6"	3.8	5.3	2.9	1.5	1
8"	6.5	9.1	4.9	2.5	1.3
12"	13.7	19.4	10.5	5.3	2.7
16"	23.8	26.0	14.0	7.2	3.6
18"	29.9	42.3	22.9	11.7	5.9

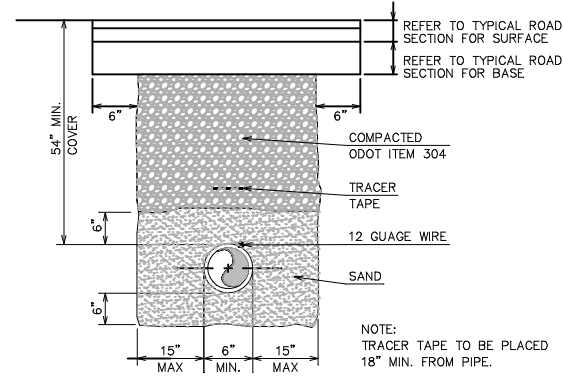


FIRE HYDRANT SHALL BE FLOW CONTROL B 84 B OR CLOW AS APPROVED BY MUSKINGUM COUNTY WATER DEPARTMENT.

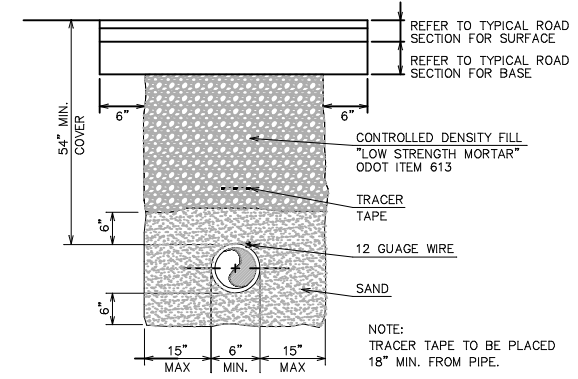




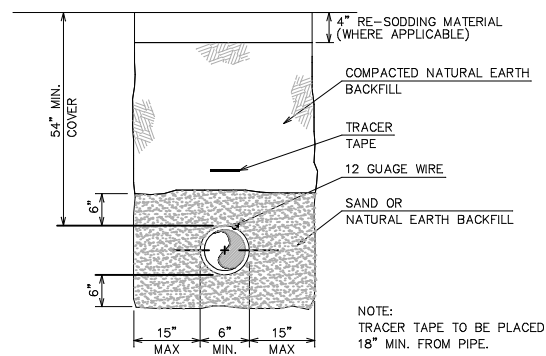
TYP. PIPE TRENCH DETAIL
NON-PAVED DRIVEWAY AREAS



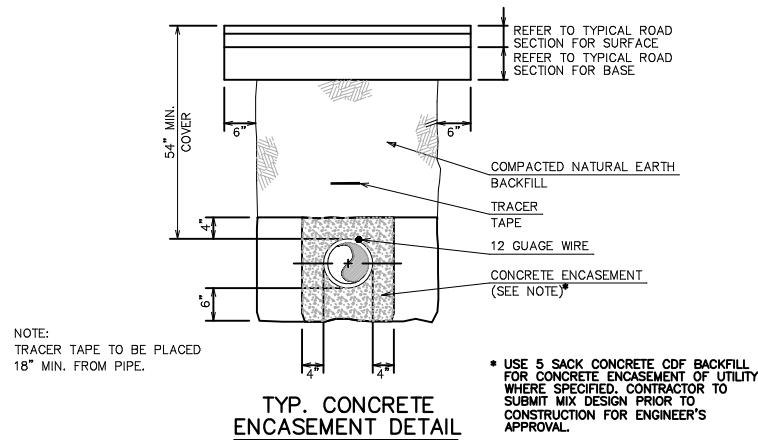
TYP. PIPE TRENCH DETAIL
(PAVEMENT AREAS)
FOR TOWNSHIP ROADS



TYP. PIPE TRENCH DETAIL
(PAVEMENT AREAS)
FOR COUNTY ROADS AND/OR STATE ROUTES



TYP. PIPE TRENCH DETAIL
(EXIST. VEGETATION AREAS)



NOTE:
TRACER TAPE TO BE PLACED
18\"/>

* USE 5 SACK CONCRETE CDF BACKFILL FOR CONCRETE ENCASEMENT OF UTILITY WHERE SPECIFIED. CONTRACTOR TO SUBMIT MIX DESIGN PRIOR TO CONSTRUCTION FOR ENGINEER'S APPROVAL.

1 1/2" ASPHALT CONCRETE SURFACE COURSE*
2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE*
6" AGGREGATE BASE*

TYPICAL ROAD SECTION
FOR PAVEMENT REPAIR AREAS

* CONTRACTOR MAY SUBSTITUTE ASPHALT/AGGREGATE BASE WITH 8" CLASS C CONCRETE (4000 PSI) WITH WELDED WIRE MESH 6x6 W1.4xW1.4 (10 GAGE)

PREPARED BY:

PROJECT NAME
CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT LOCATION
CHANDLERSVILLE, OHIO 43727

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

03/21/2024

REVISED:

SHEET SIZE:

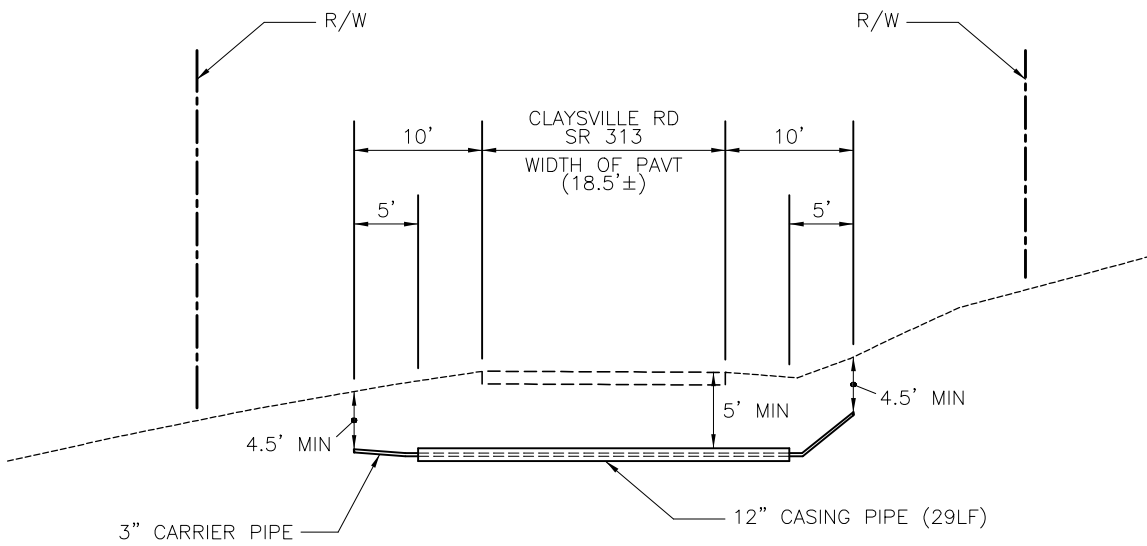
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SHEET NAME:

TRENCH DETAILS

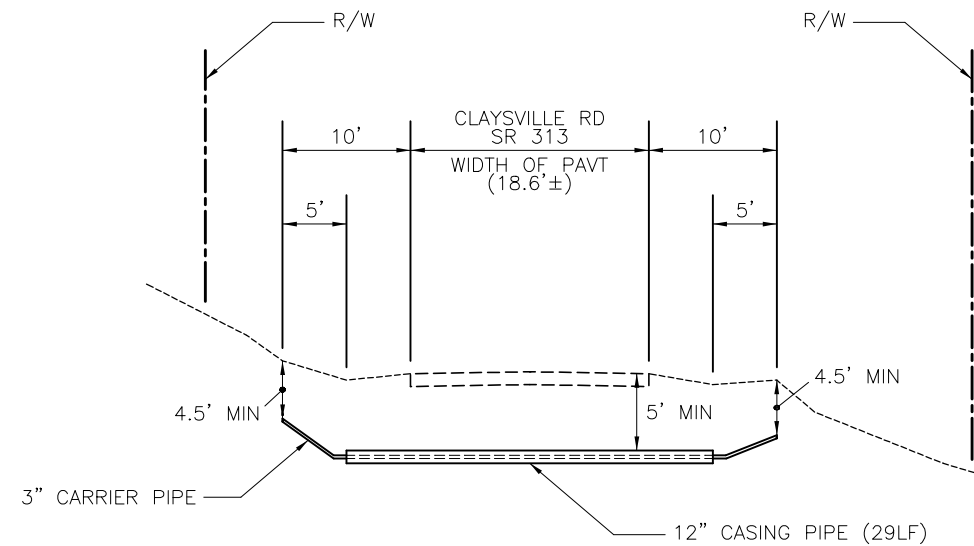
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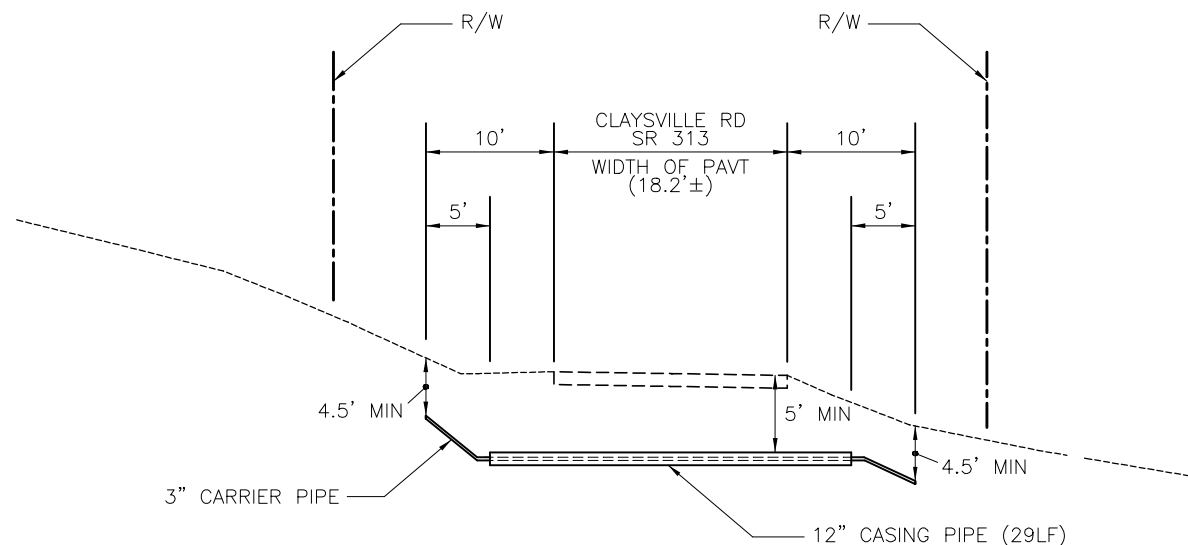
SEE DIRECTIONAL DRILLING NOTES (NEXT SHEET)

1,020' EAST OF TOM LANE



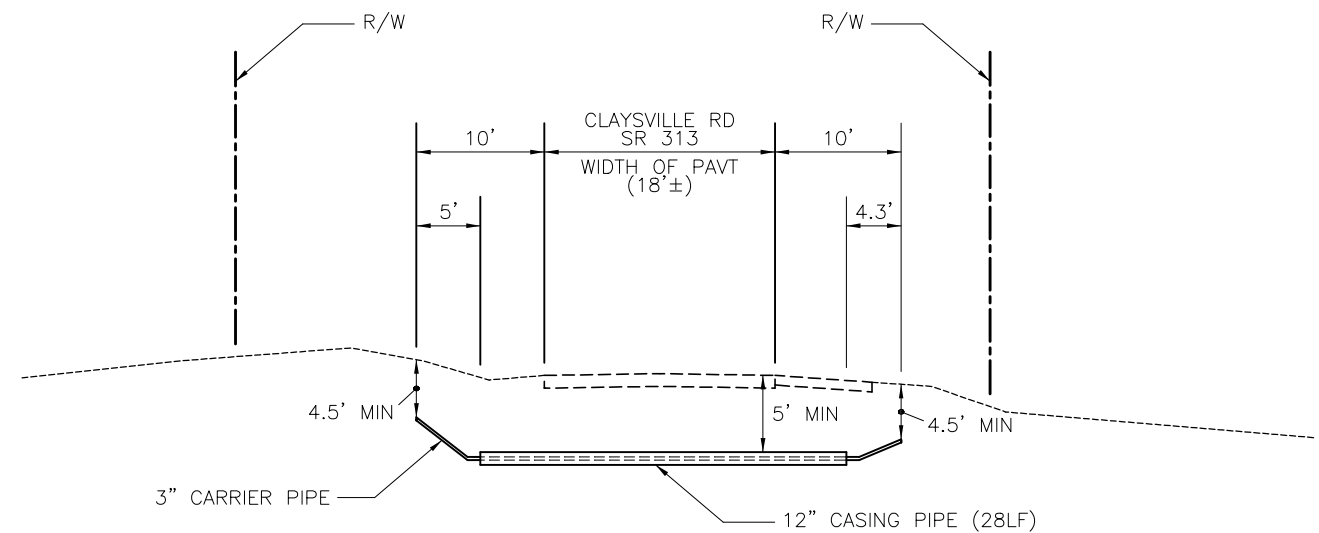
SEE DIRECTIONAL DRILLING NOTES (NEXT SHEET)

NEAR 11385 CLAYSVILLE ROAD



SEE DIRECTIONAL DRILLING NOTES (NEXT SHEET)

NEAR 11445 CLAYSVILLE ROAD



SEE DIRECTIONAL DRILLING NOTES (NEXT SHEET)

CLAYSVILLE RD @ N. LEEDOM RD

PREPARED BY:

CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT NAME:

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

03/21/2024

REVISED:

SHEET SIZE:

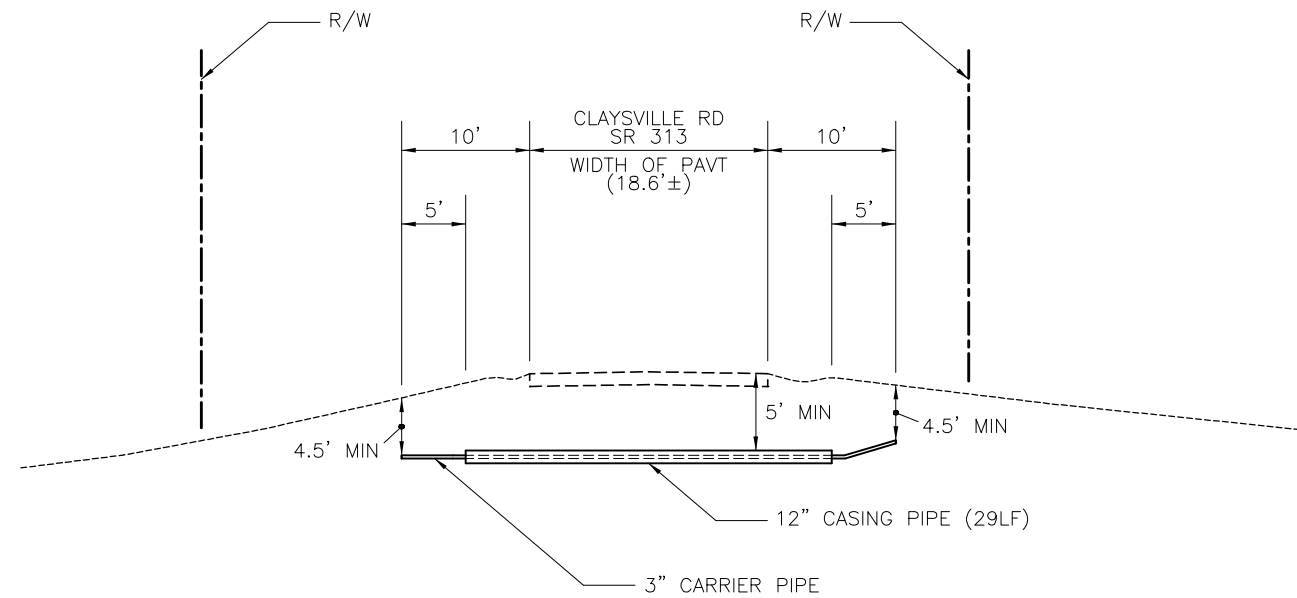
11" x 17"

SHEET NAME:

DIRECTIONAL DRILLING DETAILS (1)

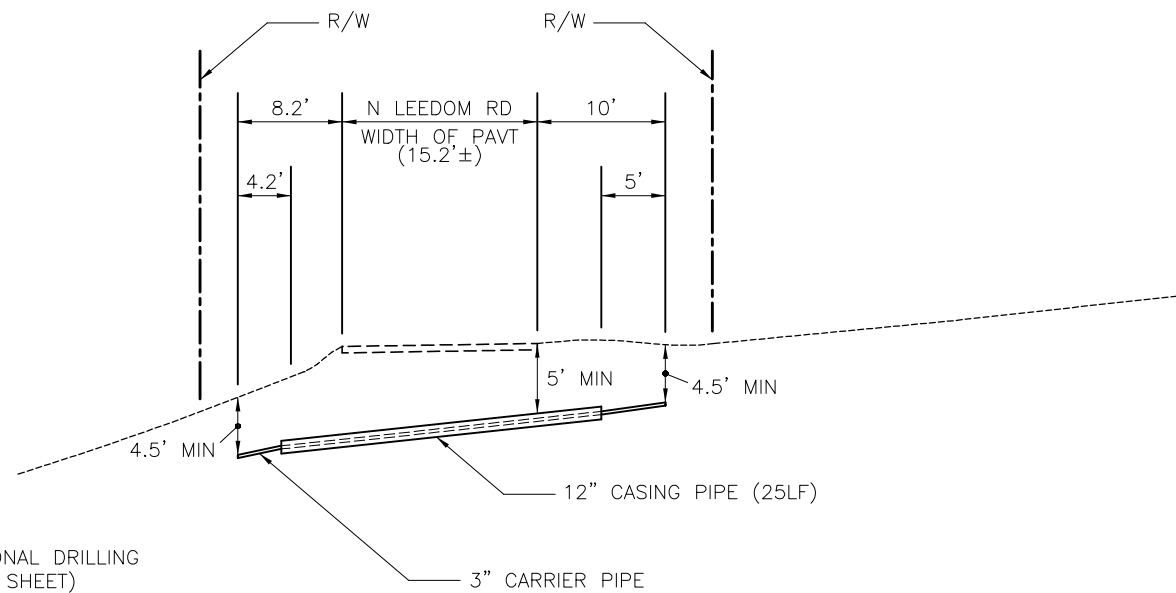
SHEET NUMBER:

07
62



SEE DIRECTIONAL DRILLING NOTES (THIS SHEET)

CLAYSVILLE RD 400' EAST OF N. LEEDOM RD



SEE DIRECTIONAL DRILLING NOTES (THIS SHEET)

N LEEDOM RD 1300' SOUTH OF CLAYSVILLE RD

DIRECTIONAL DRILLING NOTES

1. CARRIER PIPE SPECIFICATIONS
3" IPS CL200 HDPE (DR11) PE-4710 AWWA C906 TO BE INSTALLED WITH HORIZONTAL DIRECTIONAL DRILLING METHODS
2. CASING PIPE SPECIFICATIONS
12" IPS CL160 HDPE (DR13.5) PE-4710 AWWA C906 TO BE INSTALLED WITH HORIZONTAL DIRECTIONAL DRILLING METHODS
3. OFFSET / MINIMUM COVER
NEW WATER MAINS SHALL BE OFFSET FROM EDGE OF ROAD AND HAVE MINIMUM COVER AS NOTED AT EACH PROPOSED BORING LOCATION ON BORING DETAIL SHEETS.
4. VERTICAL CLEARANCE TO EXISTING UTILITIES
BORING FOR NEW WATER MAINS SHALL BE A MINIMUM OF 18" BELOW EXISTING UTILITIES IDENTIFIED AT BORING LOCATION.
5. LOCATING EXISTING UTILITIES
CONTRACTOR SHALL LOCATE, VERIFY DEPTH, SIZE AND MATERIAL OF EXISTING UTILITIES (100LF MINIMUM) PRIOR TO BORING PROPOSED CROSSING FOR NEW WATER MAIN.

Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
Muskingum COUNTY ENGINEER'S OFFICE
740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT LOCATION: CHANDLERSVILLE, OHIO 43727

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

03/21/2024

REVISED:

SHEET SIZE:

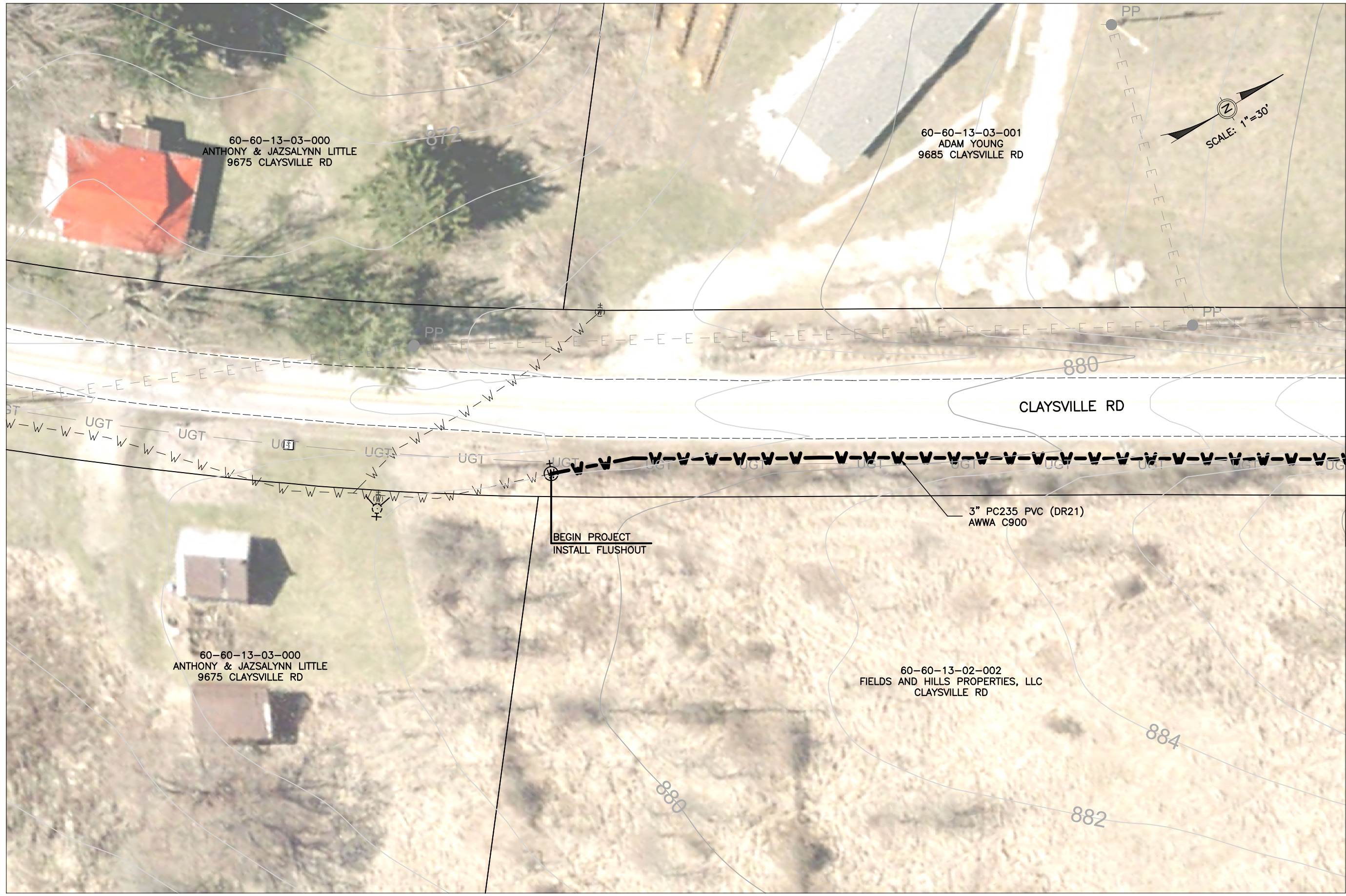
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SHEET NAME:

DIRECTIONAL DRILLING DETAILS (2)

SHEET NUMBER:

08
62



60-60-13-03-000
ANTHONY & JAZSALYNN LITTLE
9675 CLAYSVILLE RD

60-60-13-03-001
ADAM YOUNG
9685 CLAYSVILLE RD

60-60-13-03-000
ANTHONY & JAZSALYNN LITTLE
9675 CLAYSVILLE RD

60-60-13-02-002
FIELDS AND HILLS PROPERTIES, LLC
CLAYSVILLE RD

BEGIN PROJECT
INSTALL FLUSHOUT

3" PC235 PVC (DR21)
AWWA C900

SCALE: 1"=30'

MATCHLINE PLAN SHEET (2)

Mark J. Eicher, P.E., P.S.
Muskingum
County
ENGINEER'S OFFICE
109 Graham Street
Zanesville, Ohio 43701
740-454-0155

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PROJECT LOCATION: CLAYSVILLE ROAD, CHANDLERSVILLE, OH 43727

PLANS APPROVED BY: MJE

PLANS PREPARED BY: GJW

DATE: 03/21/2024

REVISED:

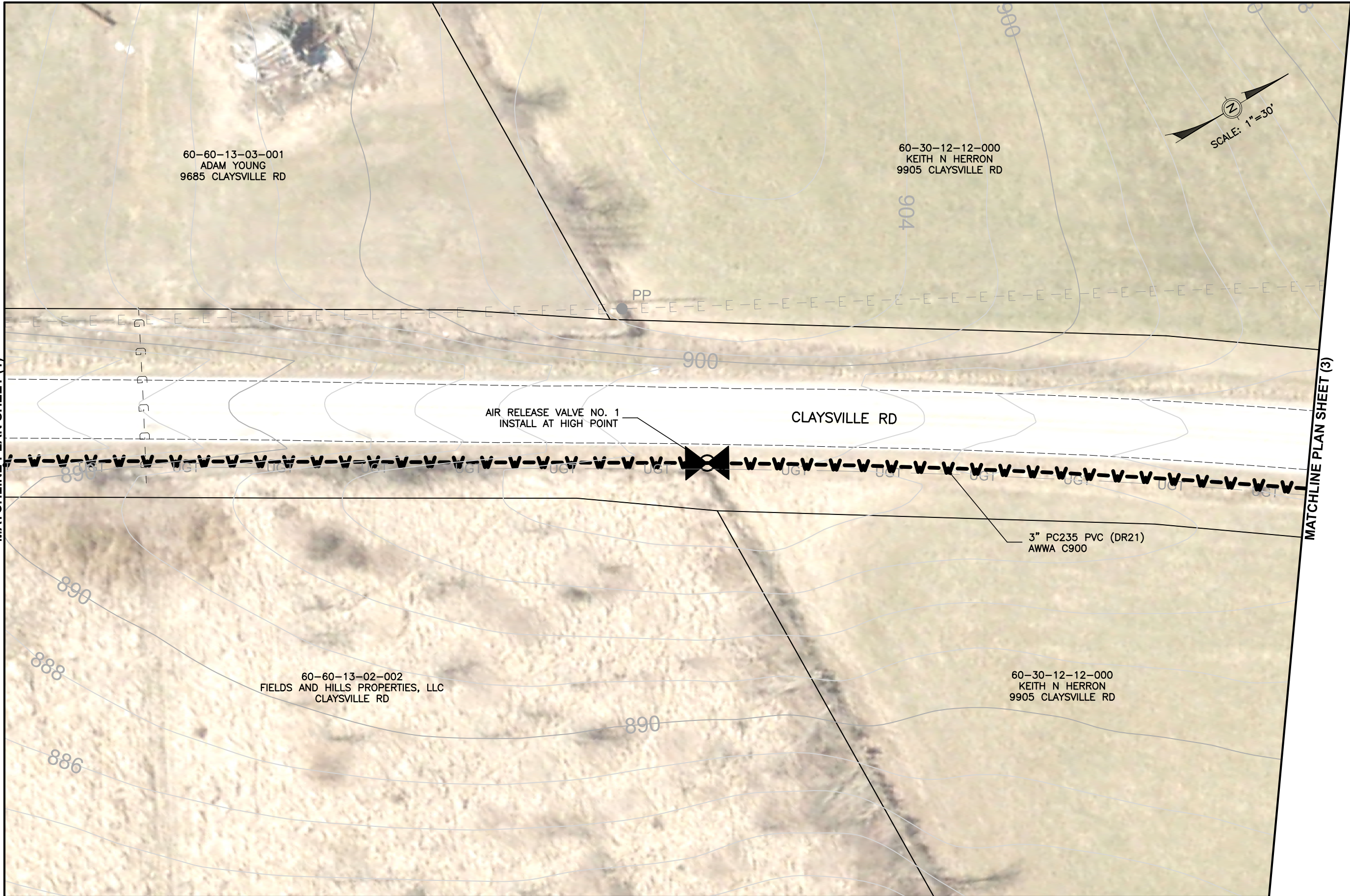
SHEET SIZE: 11" x 17"

SHEET NAME: PLAN SHEET (1)

SHEET NUMBER: 09 / 62

MATCHLINE PLAN SHEET (1)

MATCHLINE PLAN SHEET (3)



60-60-13-03-001
ADAM YOUNG
9685 CLAYSVILLE RD

60-30-12-12-000
KEITH N HERRON
9905 CLAYSVILLE RD

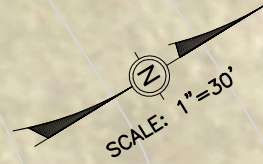
AIR RELEASE VALVE NO. 1
INSTALL AT HIGH POINT

CLAYSVILLE RD

3" PC235 PVC (DR21)
AWWA C900

60-60-13-02-002
FIELDS AND HILLS PROPERTIES, LLC
CLAYSVILLE RD

60-30-12-12-000
KEITH N HERRON
9905 CLAYSVILLE RD



Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
Wuskingum
COUNTY
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT NAME

PROJECT LOCATION

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE

03/21/2024

REVISED:

SHEET SIZE:

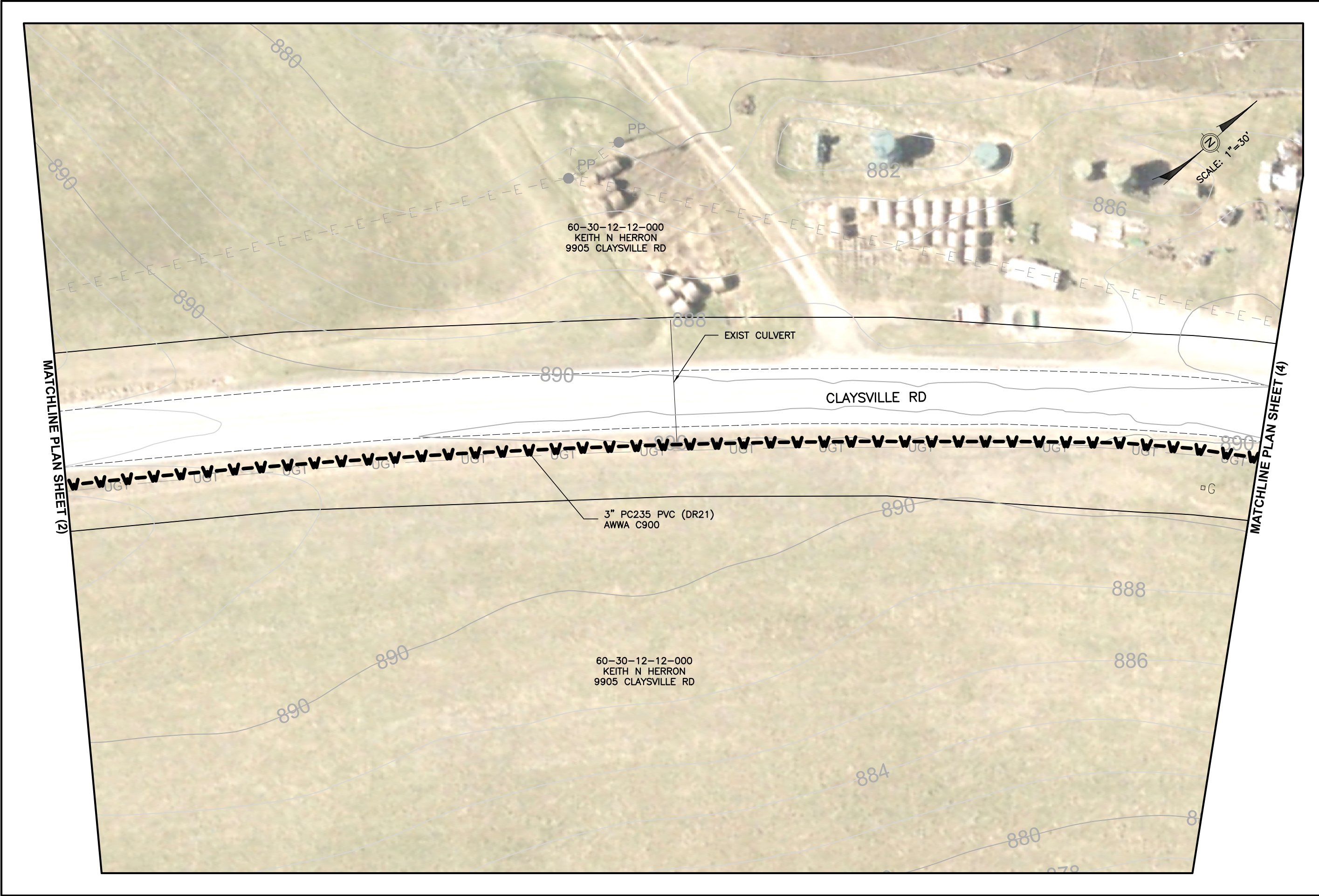
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PLAN SHEET (2)


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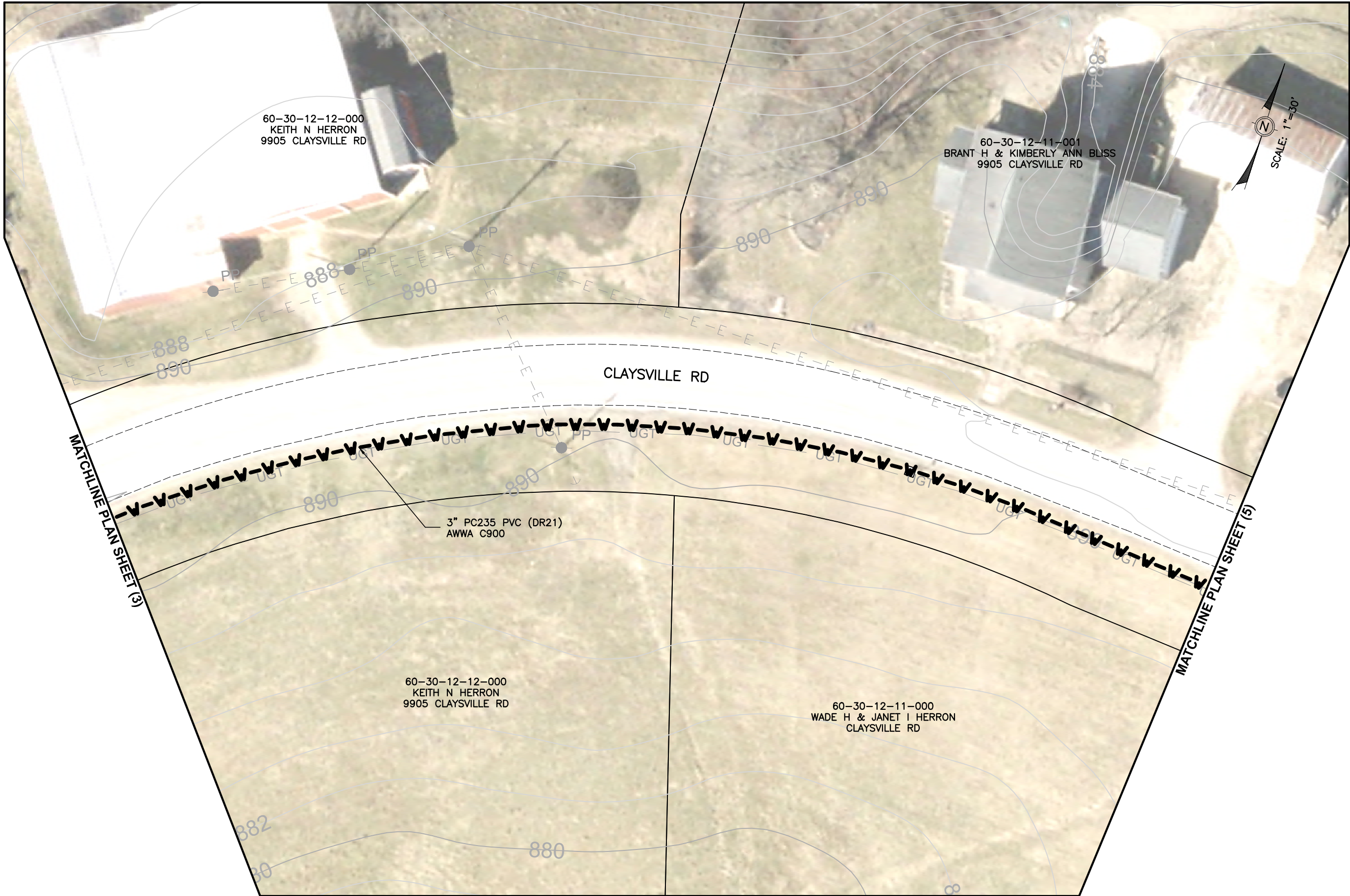
10
62



MATCHLINE PLAN SHEET (2)

MATCHLINE PLAN SHEET (4)

	
<p>Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 740-454-0155</p>	
<small>PREPARED BY:</small>	<small>ENGINEER'S OFFICE</small>
<small>PROJECT NAME:</small>	<small>PROJECT LOCATION:</small>
CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION	
CLAYSVILLE ROAD CHANDLERSVILLE, OH 43727	
<small>PLANS APPROVED BY:</small>	
MJE	
<small>PLANS PREPARED BY:</small>	
GJW	
<small>DATE:</small>	
03/21/2024	
<small>REVISED:</small>	
<small>SHEET SIZE:</small>	
11" x 17"	
<small>SHEET NAME:</small>	
PLAN SHEET (3)	
<small>SHEET NUMBER:</small>	
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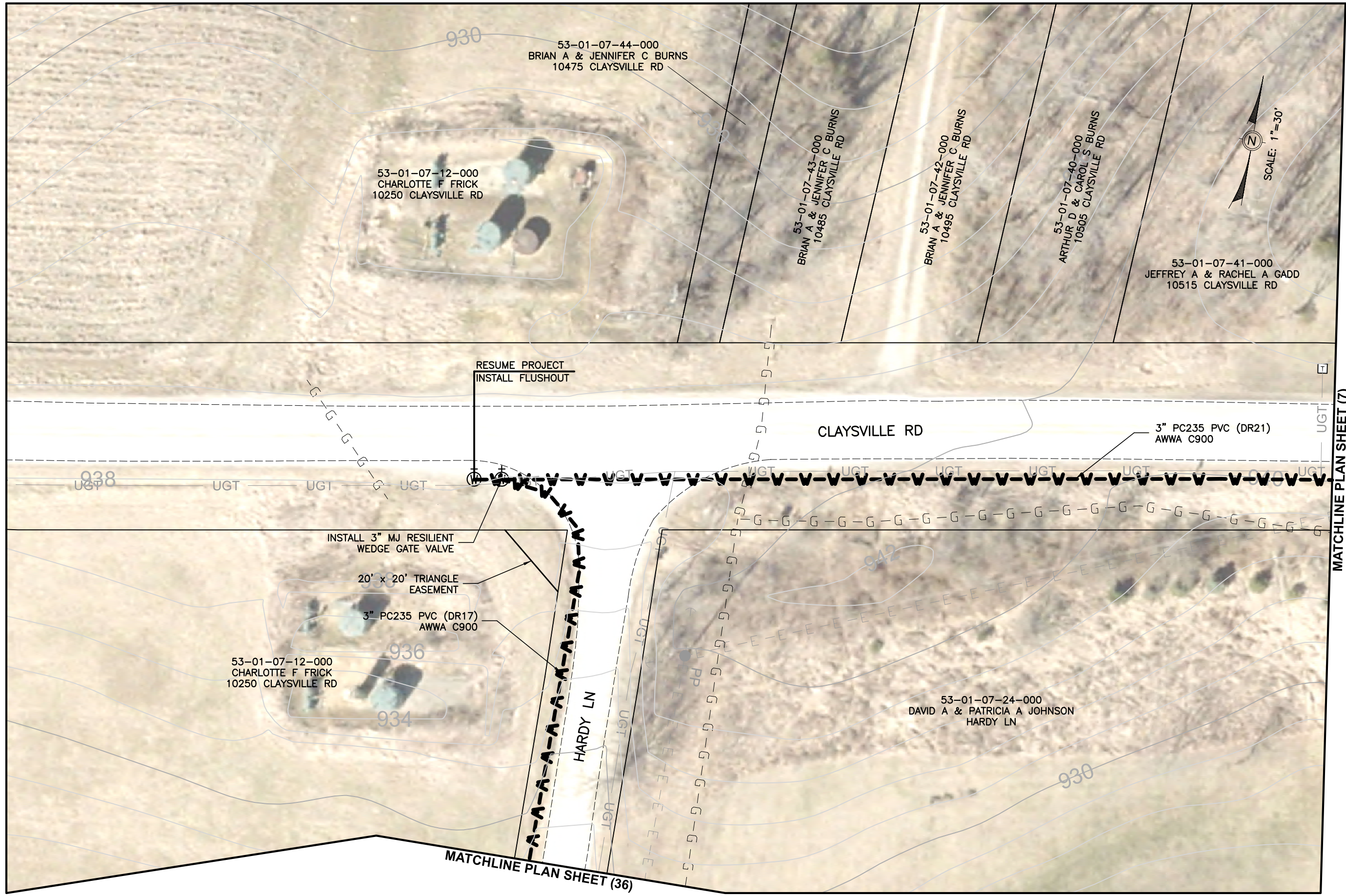


SCALE: 1" = 30'

MATCHLINE PLAN SHEET (3)

MATCHLINE PLAN SHEET (5)

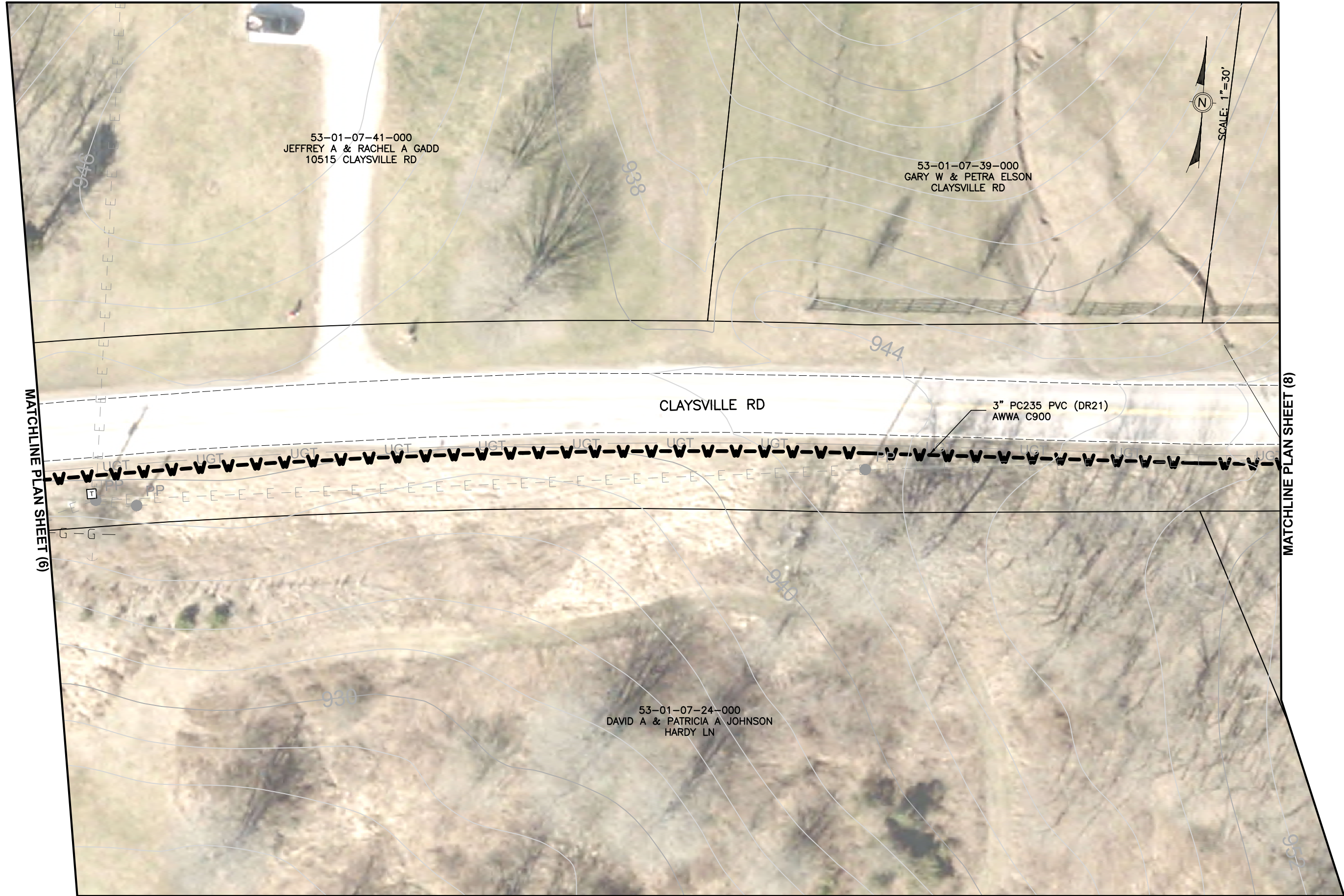
Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 ENGINEER'S OFFICE 740-454-0155	
PREPARED BY: Markuskingum COUNTY ENGINEER'S OFFICE	PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PROJECT LOCATION: CLAYSVILLE ROAD CHANDLERSVILLE, OH 43727	PLANS APPROVED BY: MJE
PLANS PREPARED BY: GJW	DATE: 03/21/2024
SHEET SIZE: 11" x 17"	SHEET NAME: PLAN SHEET (4)
SHEET NUMBER: <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> 12 62 </div>	



MATCHLINE PLAN SHEET (36)

MATCHLINE PLAN SHEET (7)

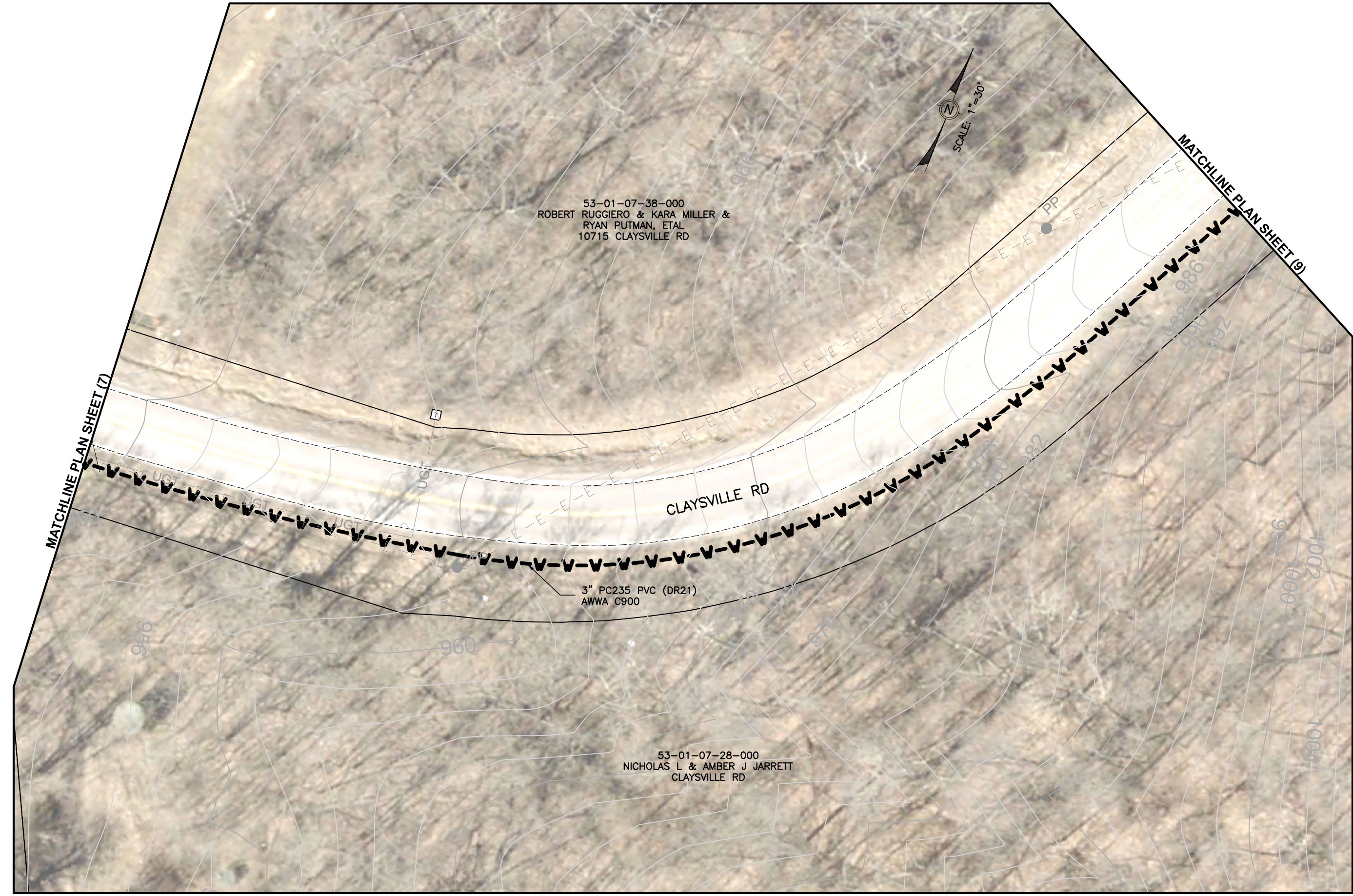
PREPARED BY: Markuskingum COUNTY ENGINEER'S OFFICE	
Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 740-454-0155	
PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION	PROJECT LOCATION: CLAYSVILLE ROAD CHANDLERSVILLE, OH 43727
PLANS APPROVED BY: MJE	
PLANS PREPARED BY: GJW	
DATE: 03/21/2024	
REVISED:	
SHEET SIZE: 11" x 17"	
SHEET NAME: PLAN SHEET (6)	
SHEET NUMBER: 14 / 62	



MATCHLINE PLAN SHEET (6)

MATCHLINE PLAN SHEET (8)

Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 740-454-0155	
PREPARED BY:	Muskingum COUNTY ENGINEER'S OFFICE
PROJECT NAME:	CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PROJECT LOCATION:	CLAYSVILLE ROAD CHANDLERSVILLE, OH 43727
PLANS APPROVED BY:	MJE
PLANS PREPARED BY:	GJW
DATE:	03/21/2024
REVISED:	
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SHEET NAME:	PLAN SHEET (7)
SHEET NUMBER:	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> 15 62 </div>



53-01-07-38-000
 ROBERT RUGGIERO & KARA MILLER &
 RYAN PUTMAN, ETAL
 10715 CLAYSVILLE RD

53-01-07-28-000
 NICHOLAS L & AMBER J JARRETT
 CLAYSVILLE RD

3" PC235 PVC (DR21)
 AWWA C900

SCALE: 1"=30'
 N

MATCHLINE PLAN SHEET (7)

MATCHLINE PLAN SHEET (9)

Muskington
 COUNTY
 ENGINEER'S OFFICE

PREPARED BY:
 Mark J. Eicher, P.E., P.S.
 109 Graham Street
 Zanesville, Ohio 43701
 740-454-0155

PROJECT NAME:
 CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT LOCATION:
 CLAYSVILLE ROAD
 CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:
 MJE

PLANS PREPARED BY:
 GJW

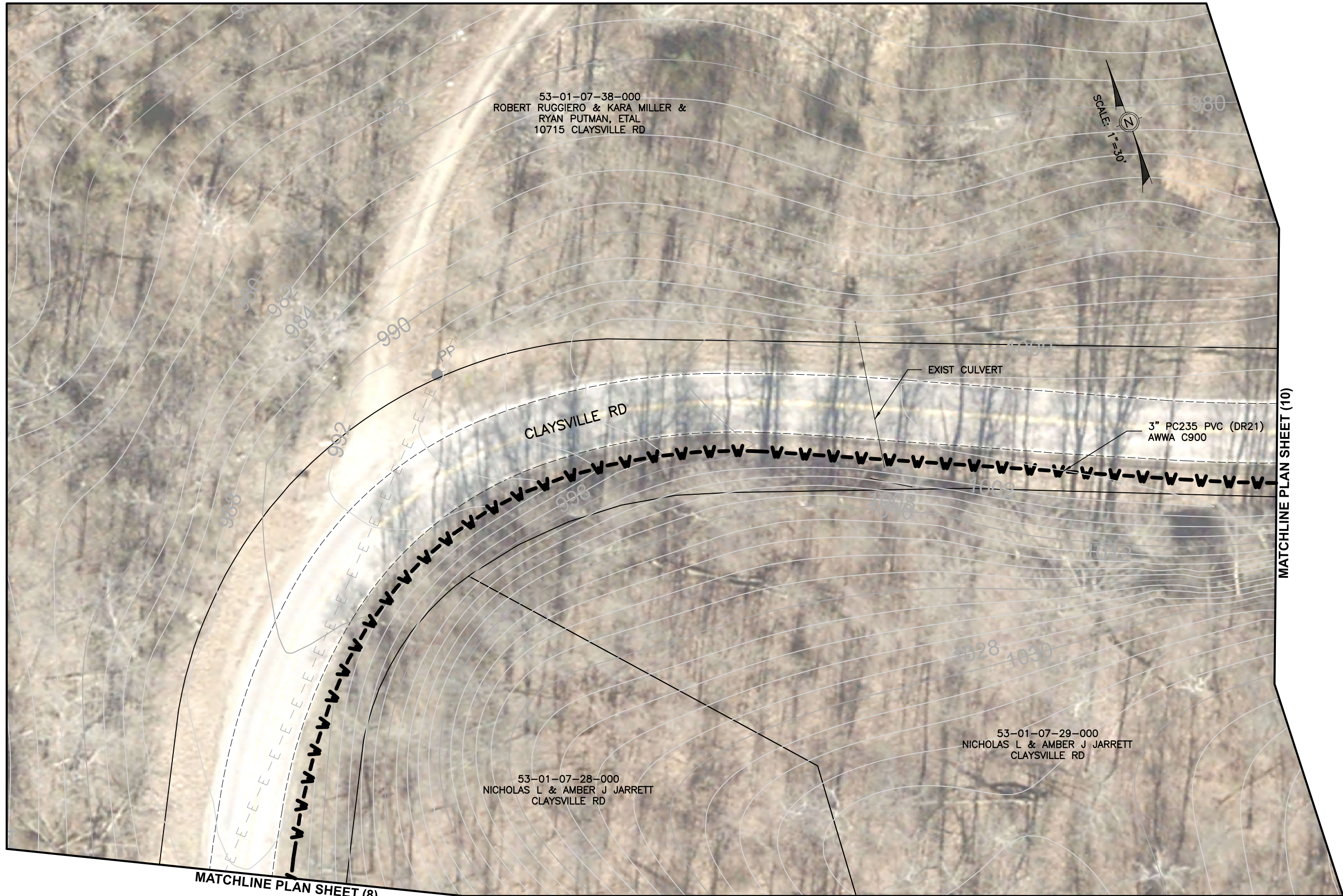
DATE:
 03/21/2024

REVISED:

SHEET SIZE:
 11" x 17"

SHEET NAME:
 PLAN SHEET (8)

SHEET NUMBER:
 16
 62



MATCHLINE PLAN SHEET (8)

MATCHLINE PLAN SHEET (10)

53-01-07-38-000
 ROBERT RUGGIERO & KARA MILLER &
 RYAN PUTMAN, ETAL
 10715 CLAYSVILLE RD

53-01-07-28-000
 NICHOLAS L & AMBER J JARRETT
 CLAYSVILLE RD

53-01-07-29-000
 NICHOLAS L & AMBER J JARRETT
 CLAYSVILLE RD



Mark J. Eicher, P.E., P.S.
 109 Graham Street
 Zanesville, Ohio 43701
Wuskingum
ENGINEER'S OFFICE

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT LOCATION: CLAYSVILLE ROAD, CHANDLERSVILLE, OH 43727

PLANS APPROVED BY: MJE

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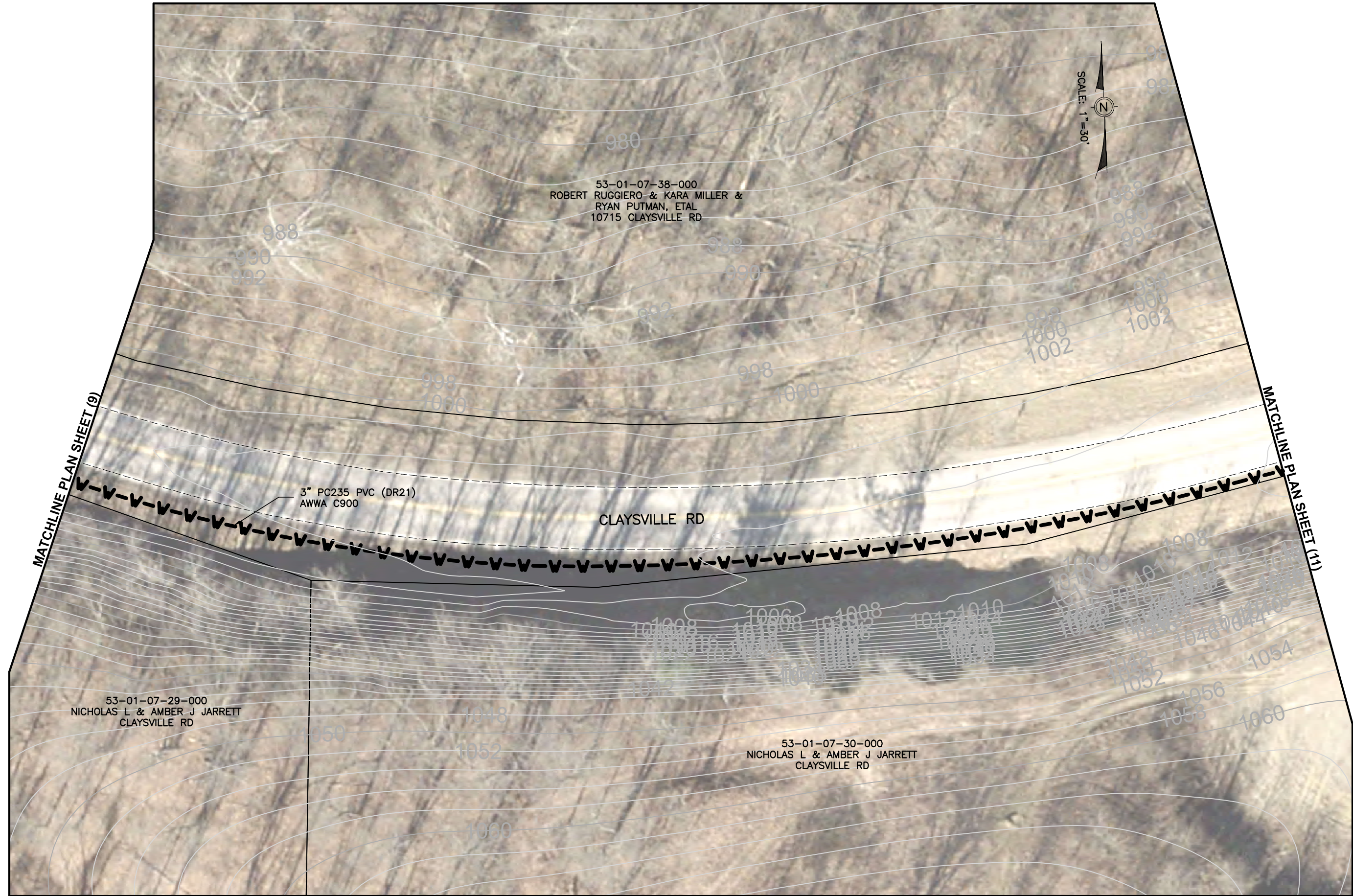
DATE: 03/21/2024

REVISED:

SHEET SIZE: 11" x 17"

SHEET NAME: PLAN SHEET (9)

SHEET NUMBER: 17 / 62



Mark J. Eicher, P.E., P.S.
Muskingum
County
ENGINEER'S OFFICE
 109 Graham Street
 Zanesville, Ohio 43701
 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
 PROJECT LOCATION: CLAYSVILLE ROAD, CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

03/21/2024

REVISED:

SHEET SIZE:

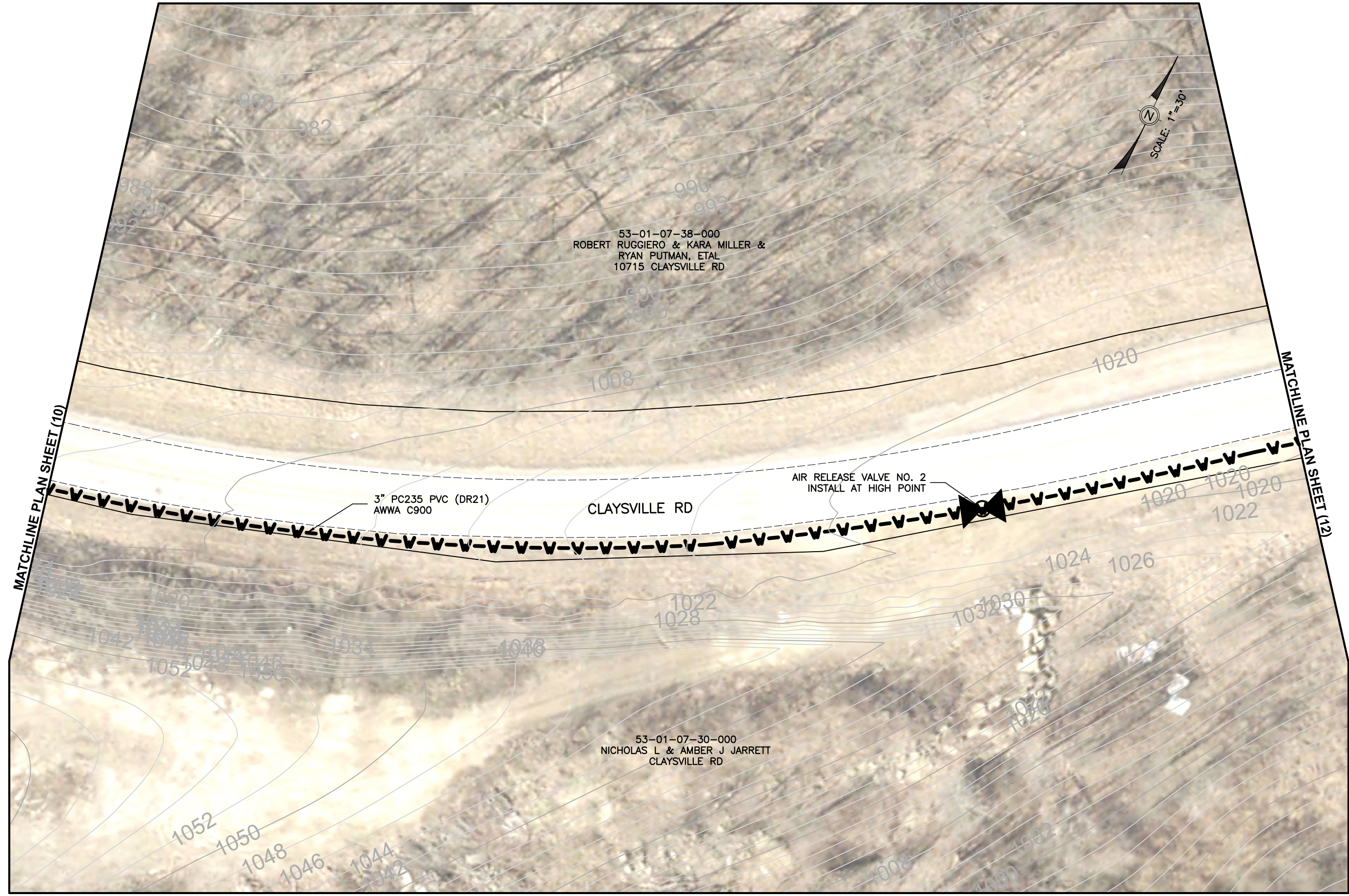
11" x 17"

SHEET NAME:

PLAN SHEET (10)

SHEET NUMBER:

18
62



53-01-07-38-000
 ROBERT RUGGIERO & KARA MILLER &
 RYAN PUTMAN, ETAL
 10715 CLAYSVILLE RD

CLAYSVILLE RD

AIR RELEASE VALVE NO. 2
 INSTALL AT HIGH POINT

53-01-07-30-000
 NICHOLAS L & AMBER J JARRETT
 CLAYSVILLE RD

MATCHLINE PLAN SHEET (10)

MATCHLINE PLAN SHEET (12)

Mark J. Eicher, P.E., P.S.
 109 Graham Street
 Zanesville, Ohio 43701
Muskingum
COUNTY
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT LOCATION:

CLAYSVILLE ROAD
 CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:
 MJE

PLANS PREPARED BY:
 GJW

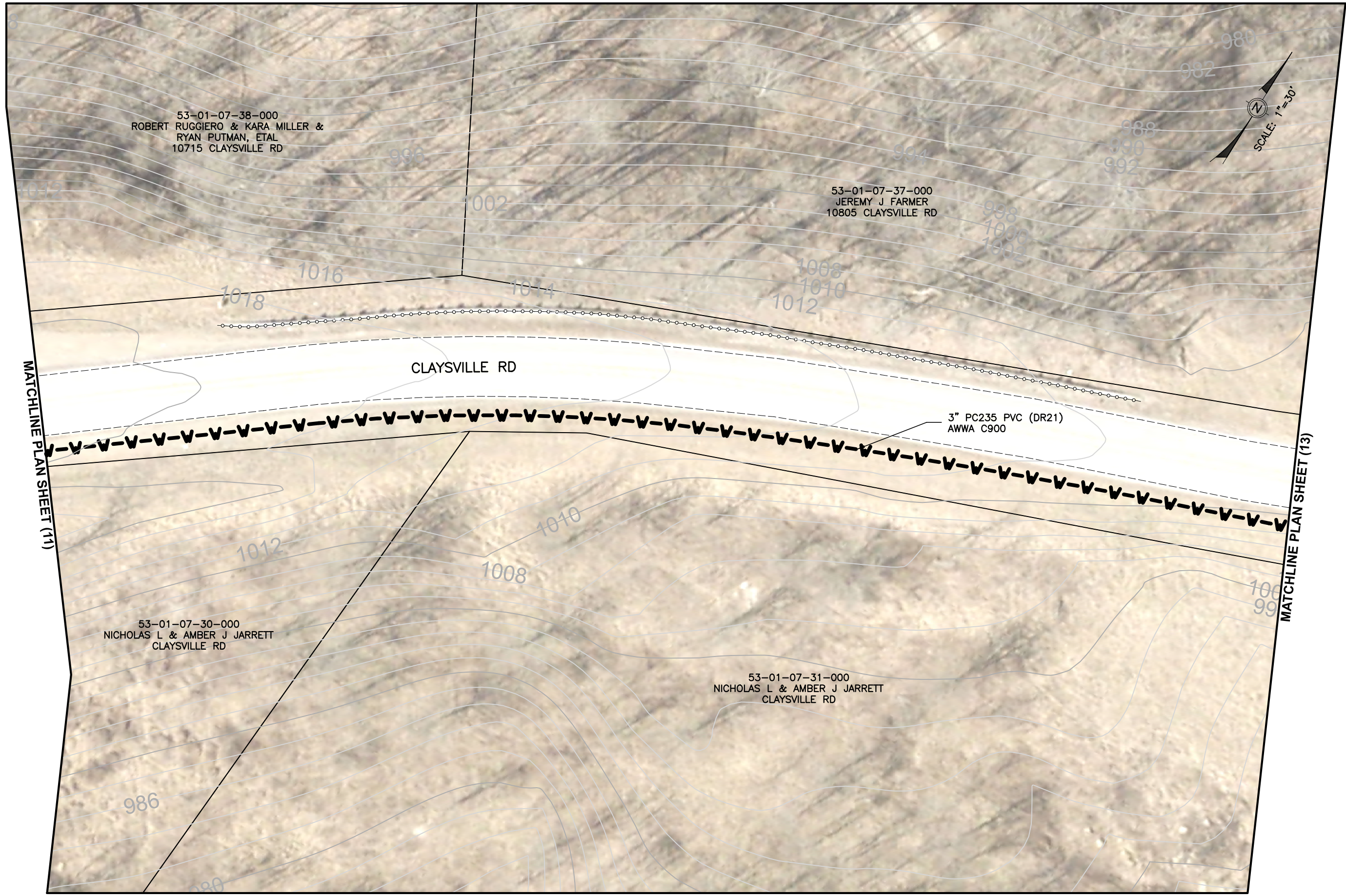
DATE:
 03/21/2024

REVISED:

SHEET SIZE:
 11" x 17"


SHEET NAME:
 PLAN SHEET (11)

SHEET NUMBER:
 19
 62



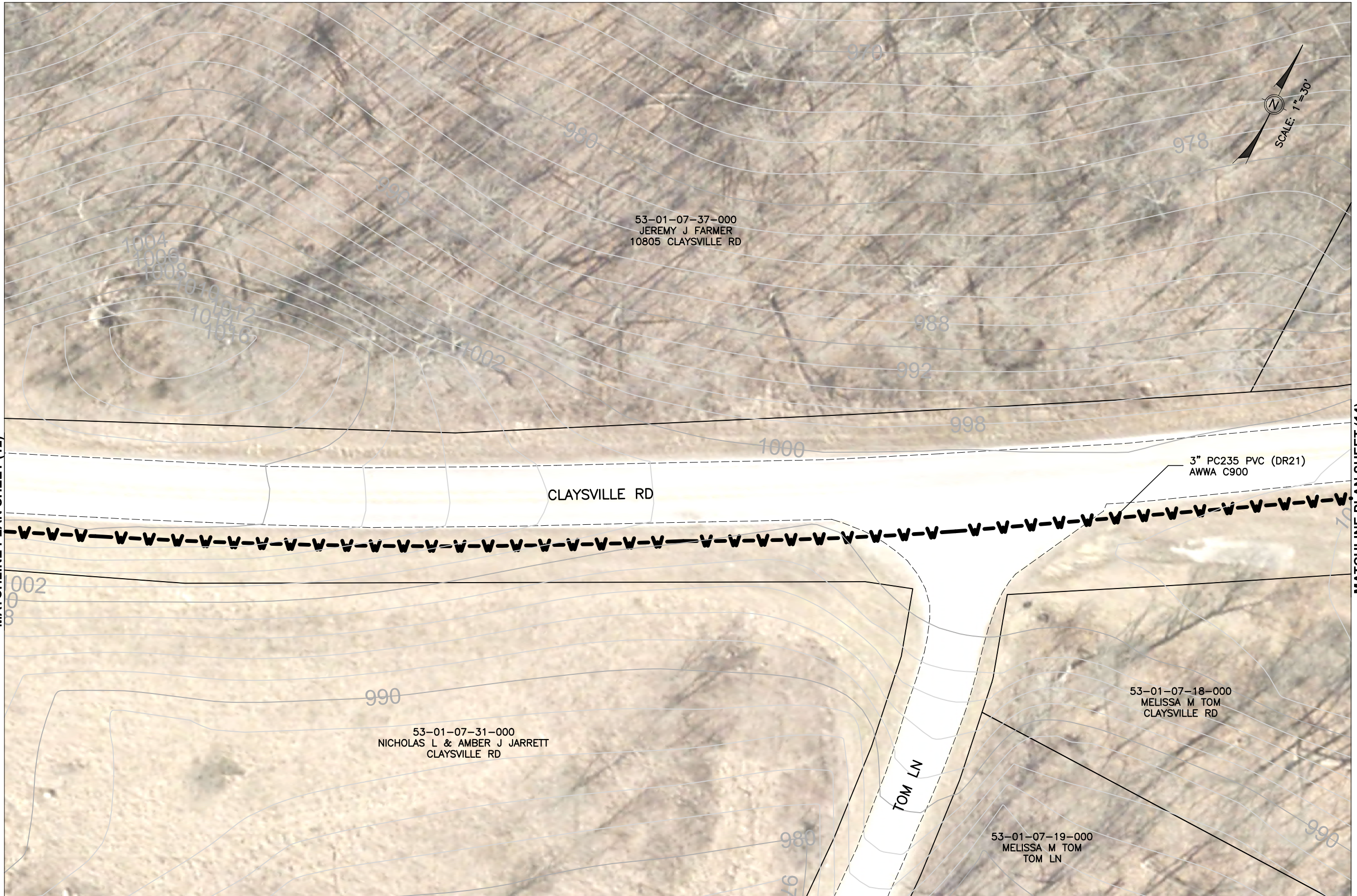
MATCHLINE PLAN SHEET (11)

MATCHLINE PLAN SHEET (13)

	
Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 ENGINEER'S OFFICE 740-454-0155	
<small>PREPARED BY:</small>	<small>PROJECT NAME:</small>
	CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
<small>PLANS APPROVED BY:</small>	<small>PROJECT LOCATION:</small>
MJE	CLAYSVILLE ROAD CHANDLERSVILLE, OH 43727
<small>PLANS PREPARED BY:</small>	
GJW	
<small>DATE:</small>	
03/21/2024	
<small>REVISED:</small>	
<small>SHEET SIZE:</small>	
11" x 17"	
<small>SHEET NAME:</small>	
PLAN SHEET (12)	
<small>SHEET NUMBER:</small>	
<div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> 20 62 </div>	

MATCHLINE PLAN SHEET (12)

MATCHLINE PLAN SHEET (14)



Mark J. Eicher, P.E., P.S.

 Muskingum County
 ENGINEER'S OFFICE
 109 Graham Street
 Zanesville, Ohio 43701
 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT LOCATION: CLAYSVILLE ROAD, CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

03/21/2024

REVISED:

SHEET SIZE:

11" x 17"

SHEET NAME:

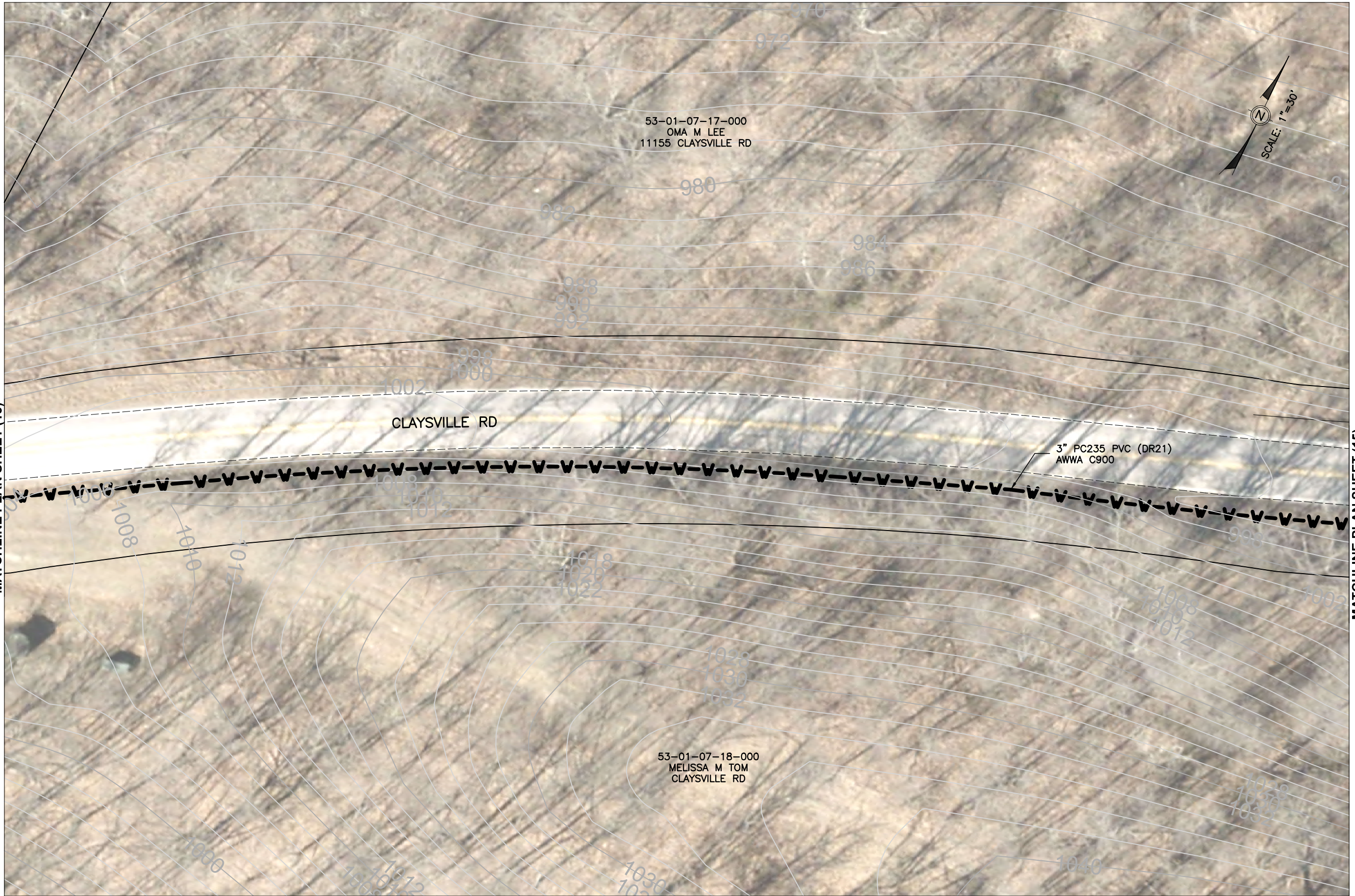
PLAN SHEET (13)

SHEET NUMBER:

21
62

MATCHLINE PLAN SHEET (13)

MATCHLINE PLAN SHEET (15)



Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
Wuskingum
COUNTY
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT LOCATION:

CLAYSVILLE ROAD
CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:
MJE

PLANS PREPARED BY:
GJW

DATE:
03/21/2024

REVISED:

SHEET SIZE:
11" x 17"

SHEET NAME:
PLAN SHEET (14)

SHEET NUMBER:
22
62



MATCHLINE PLAN SHEET (14)

MATCHLINE PLAN SHEET (16)

53-01-07-17-000
OMA M LEE
11155 CLAYSVILLE RD

53-01-07-18-000
MELISSA M TOM
CLAYSVILLE RD

53-01-07-23-000
DONALD T TEAGARDEN TRUST &
RHONDA L TEAGARDEN TRUST
11200 CLAYSVILLE RD

3" PC235 PVC (DR21)
AWWA C900

SCALE: 1" = 30'

Mark J. Eicher, P.E., P.S.
Muskingum
COUNTY
ENGINEER'S OFFICE
109 Graham Street
Zanesville, Ohio 43701
740-454-0155

PREPARED BY:
PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PROJECT LOCATION: CLAYSVILLE ROAD
CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:
MJE

PLANS PREPARED BY:
GJW

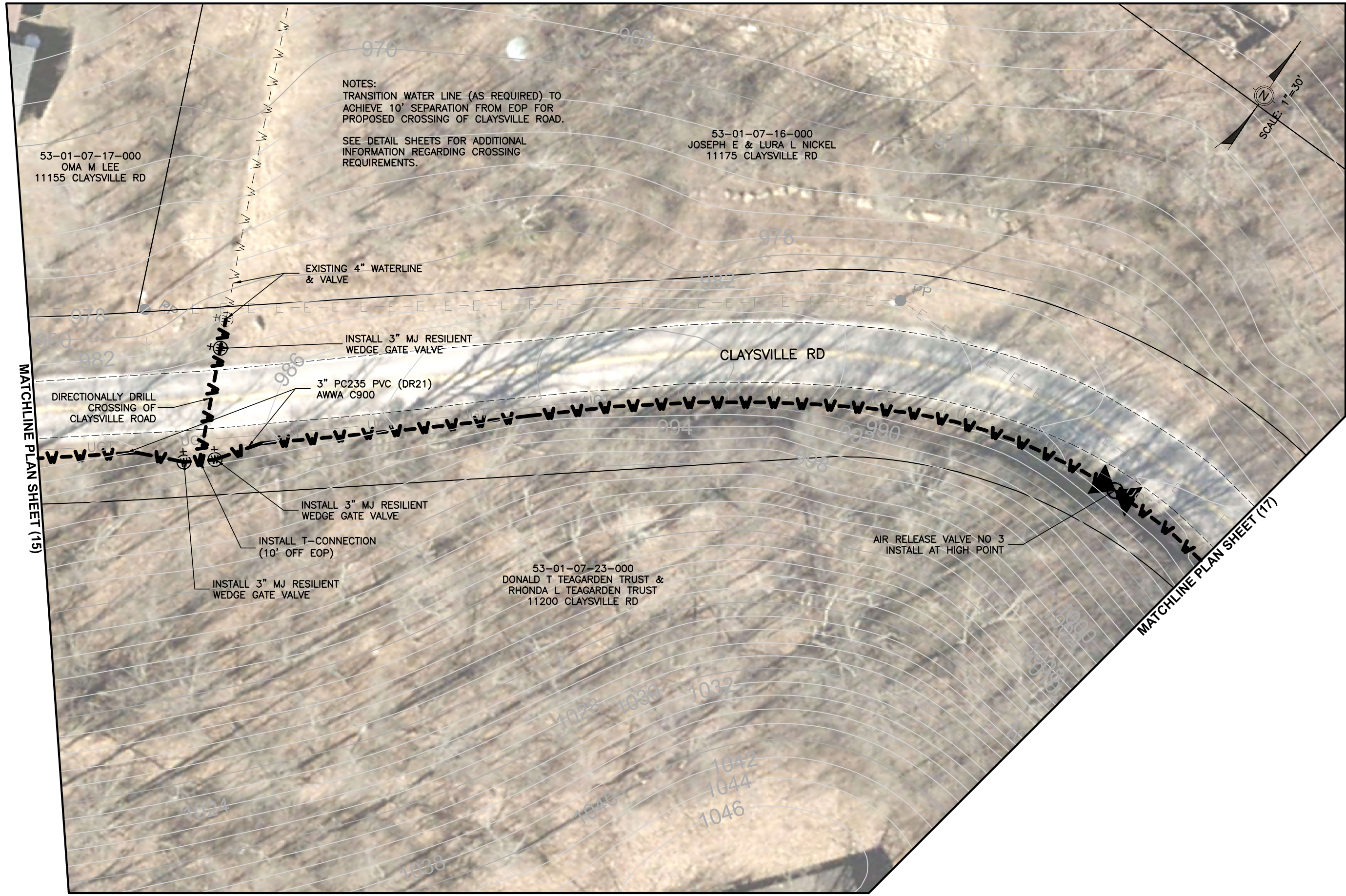
DATE:
03/21/2024

REVISED:

SHEET SIZE:
11" x 17"

SHEET NAME:
PLAN SHEET (15)

SHEET NUMBER:
23
62



Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
Muskingum
COUNTY
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:
PROJECT NAME:
PROJECT LOCATION:

CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
CLAYSVILLE ROAD
CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:	MJE
PLANS PREPARED BY:	GJW
DATE:	03/21/2024
REVISED:	
SHEET SIZE:	11" x 17"
SHEET NAME:	PLAN SHEET (16)
SHEET NUMBER:	24 / 62

MATCHLINE PLAN SHEET (16)



MATCHLINE PLAN SHEET (18)

Mark J. Eicher, P.E., P.S.
 109 Graham Street
 Zanesville, Ohio 43701
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT LOCATION:

CLAYSVILLE ROAD
CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

03/21/2024

REVISED:

SHEET SIZE:

11" x 17"

SHEET NAME:

PLAN SHEET (17)

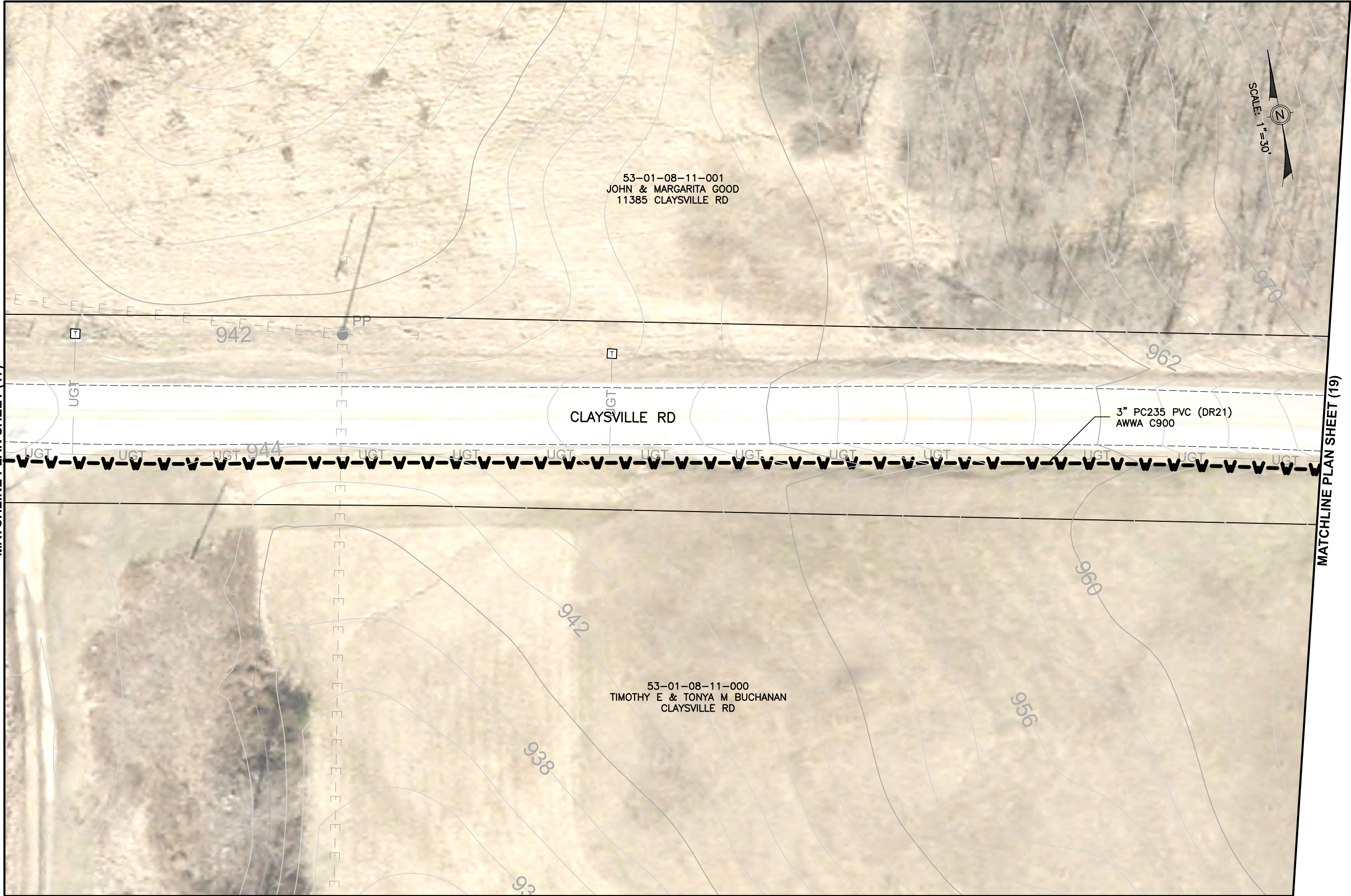
SHEET NUMBER:

25

62

MATCHLINE PLAN SHEET (17)

MATCHLINE PLAN SHEET (19)



Mark J. Eicher, P.E., P.S.
 109 Graham Street
 Zanesville, Ohio 43701
Muskingum
County
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT LOCATION:

CLAYSVILLE ROAD
CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

03/21/2024

REVISED:

SHEET SIZE:

11" x 17"

SHEET NAME:

PLAN SHEET (18)

SHEET NUMBER:

26
62



SCALE: 1" = 30'

53-01-08-11-001
JOHN & MARGARITA GOOD
11385 CLAYSVILLE RD

3" PC235 PVC (DR21)
AWWA C900

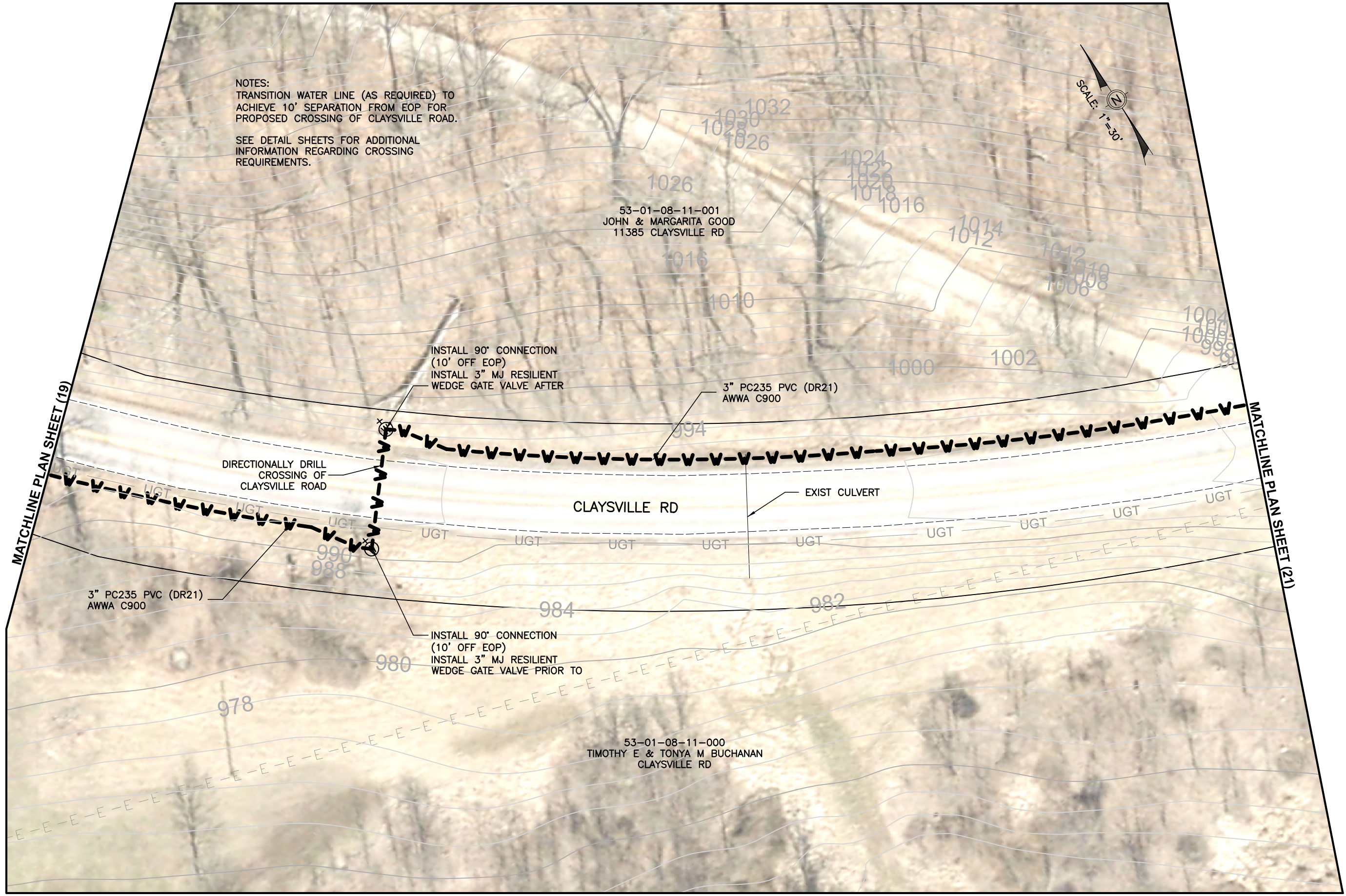
CLAYSVILLE RD

53-01-08-11-000
TIMOTHY E & TONYA M BUCHANAN
CLAYSVILLE RD

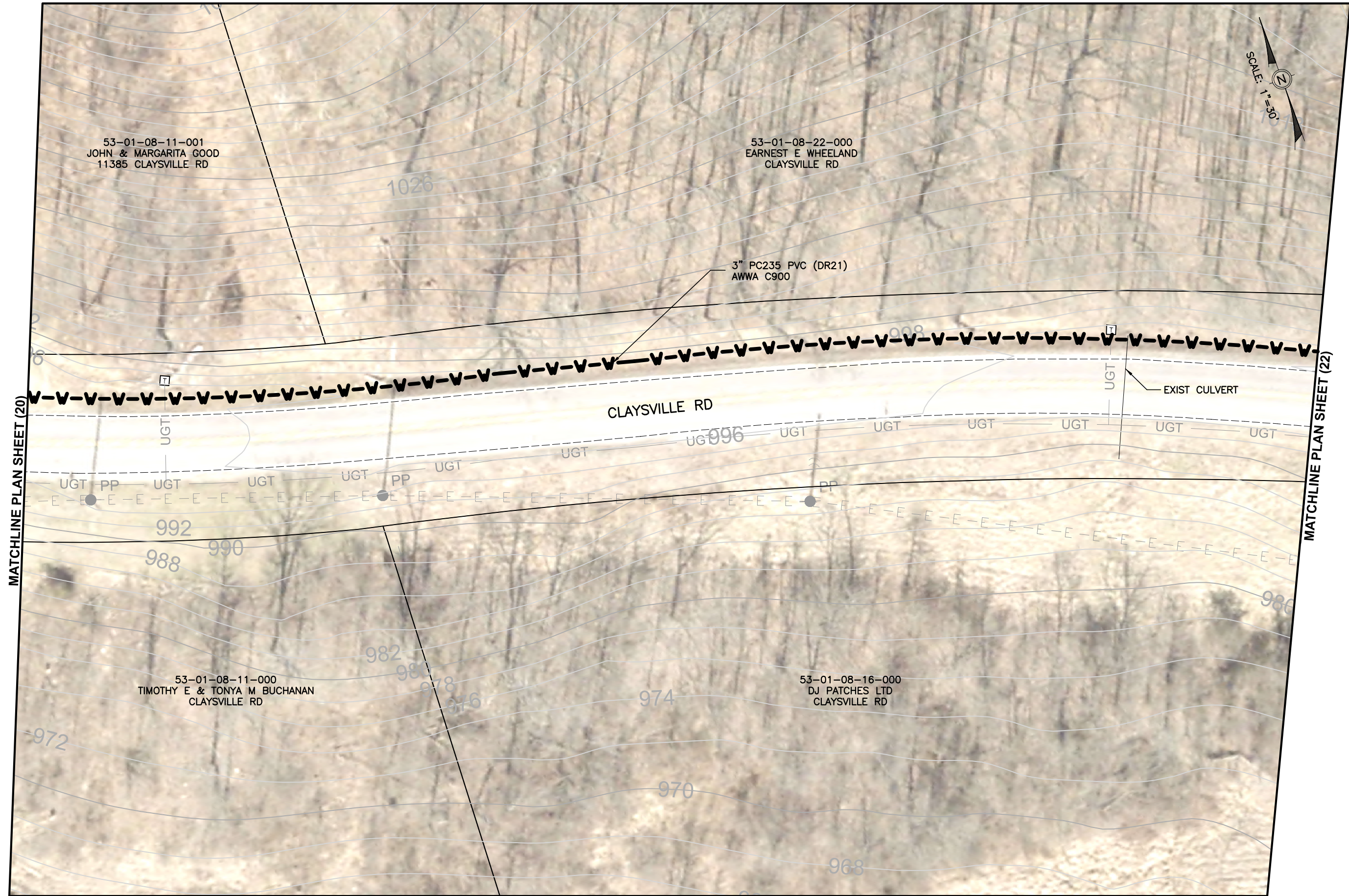
MATCHLINE PLAN SHEET (18)

MATCHLINE PLAN SHEET (20)

Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 ENGINEER'S OFFICE 740-454-0155	
PREPARED BY: M. J. Eicher	PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PLANS APPROVED BY: MJE	PROJECT LOCATION: CLAYSVILLE ROAD CHANDLERSVILLE, OH 43727
PLANS PREPARED BY: GJW	DATE: 03/21/2024
SHEET SIZE: 11" x 17"	REVISED:
SHEET NAME: PLAN SHEET (19)	SHEET NUMBER: 27 / 62



PREPARED BY:	PROJECT NAME:
PROJECT LOCATION:	PLANS APPROVED BY:
CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION	MJE
CLAYSVILLE ROAD CHANDLERSVILLE, OH 43727	PLANS PREPARED BY:
	GJW
	DATE:
	03/21/2024
	REVISED:
	SHEET SIZE:
	11" x 17"
	SHEET NAME:
	PLAN SHEET (20)
	SHEET NUMBER:



53-01-08-11-001
JOHN & MARGARITA GOOD
11385 CLAYSVILLE RD

53-01-08-22-000
EARNEST E WHEELAND
CLAYSVILLE RD

53-01-08-11-000
TIMOTHY E & TONYA M BUCHANAN
CLAYSVILLE RD

53-01-08-16-000
DJ PATCHES LTD
CLAYSVILLE RD

MATCHLINE PLAN SHEET (20)

MATCHLINE PLAN SHEET (22)

Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
Wuskingum
County
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT NAME

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

03/21/2024

REVISED:

SHEET SIZE:

11" x 17"

SHEET NAME:

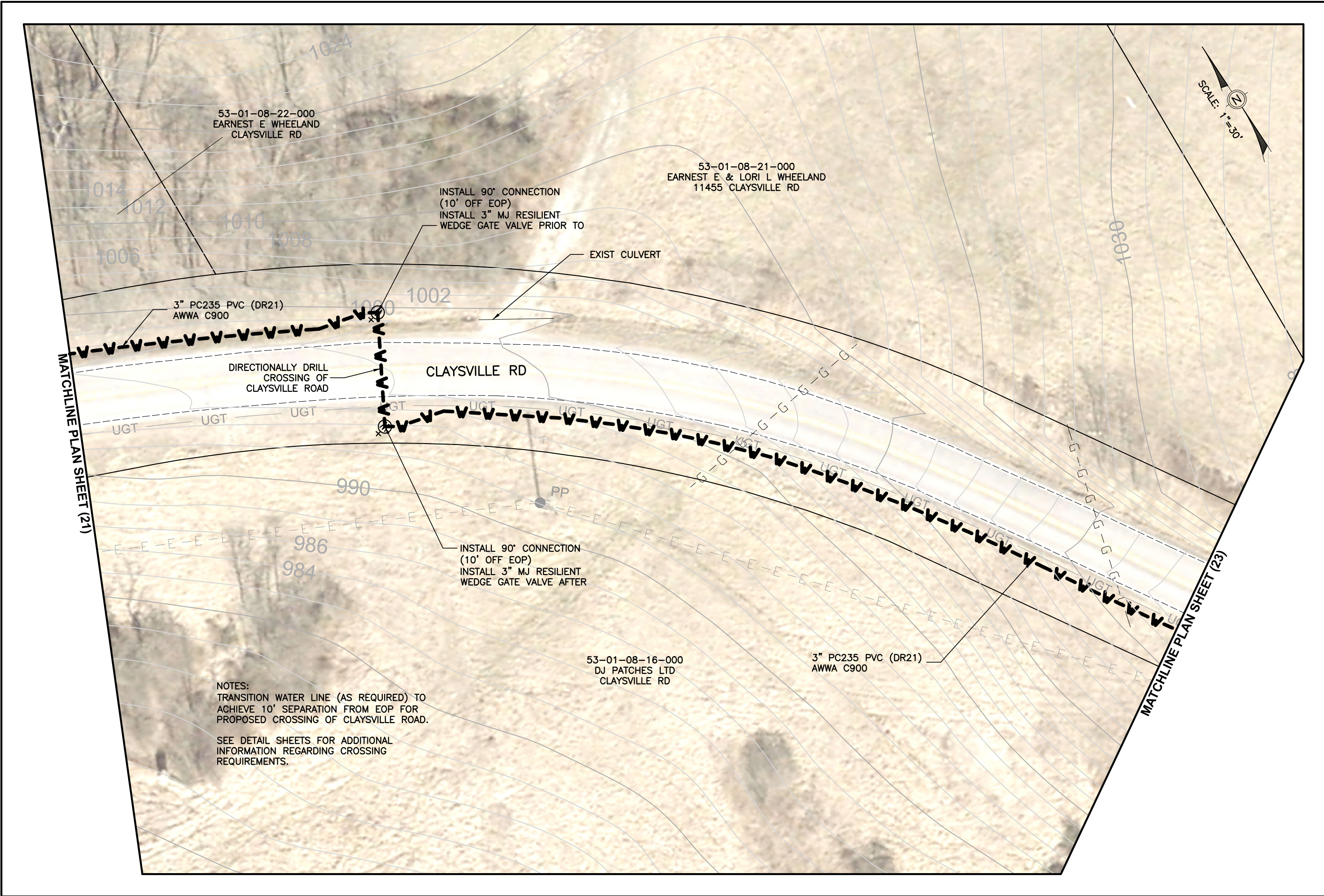
PLAN SHEET (21)

SHEET NUMBER:

29
62

CLAYSVILLE ROAD
CHANDLERSVILLE, OH 43727

PROJECT LOCATION



53-01-08-22-000
EARNEST E WHEELAND
CLAYSVILLE RD

53-01-08-21-000
EARNEST E & LORI L WHEELAND
11455 CLAYSVILLE RD

INSTALL 90° CONNECTION
(10' OFF EOP)
INSTALL 3" MJ RESILIENT
WEDGE GATE VALVE PRIOR TO

EXIST CULVERT

3" PC235 PVC (DR21)
AWWA C900

DIRECTIONALLY DRILL
CROSSING OF
CLAYSVILLE ROAD

CLAYSVILLE RD

INSTALL 90° CONNECTION
(10' OFF EOP)
INSTALL 3" MJ RESILIENT
WEDGE GATE VALVE AFTER

53-01-08-16-000
DJ PATCHES LTD
CLAYSVILLE RD

3" PC235 PVC (DR21)
AWWA C900

NOTES:
TRANSITION WATER LINE (AS REQUIRED) TO
ACHIEVE 10' SEPARATION FROM EOP FOR
PROPOSED CROSSING OF CLAYSVILLE ROAD.

SEE DETAIL SHEETS FOR ADDITIONAL
INFORMATION REGARDING CROSSING
REQUIREMENTS.

MATCHLINE PLAN SHEET (21)

MATCHLINE PLAN SHEET (23)



Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
Muskingum
COUNTY
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT NAME

MJE

GJW

03/21/2024

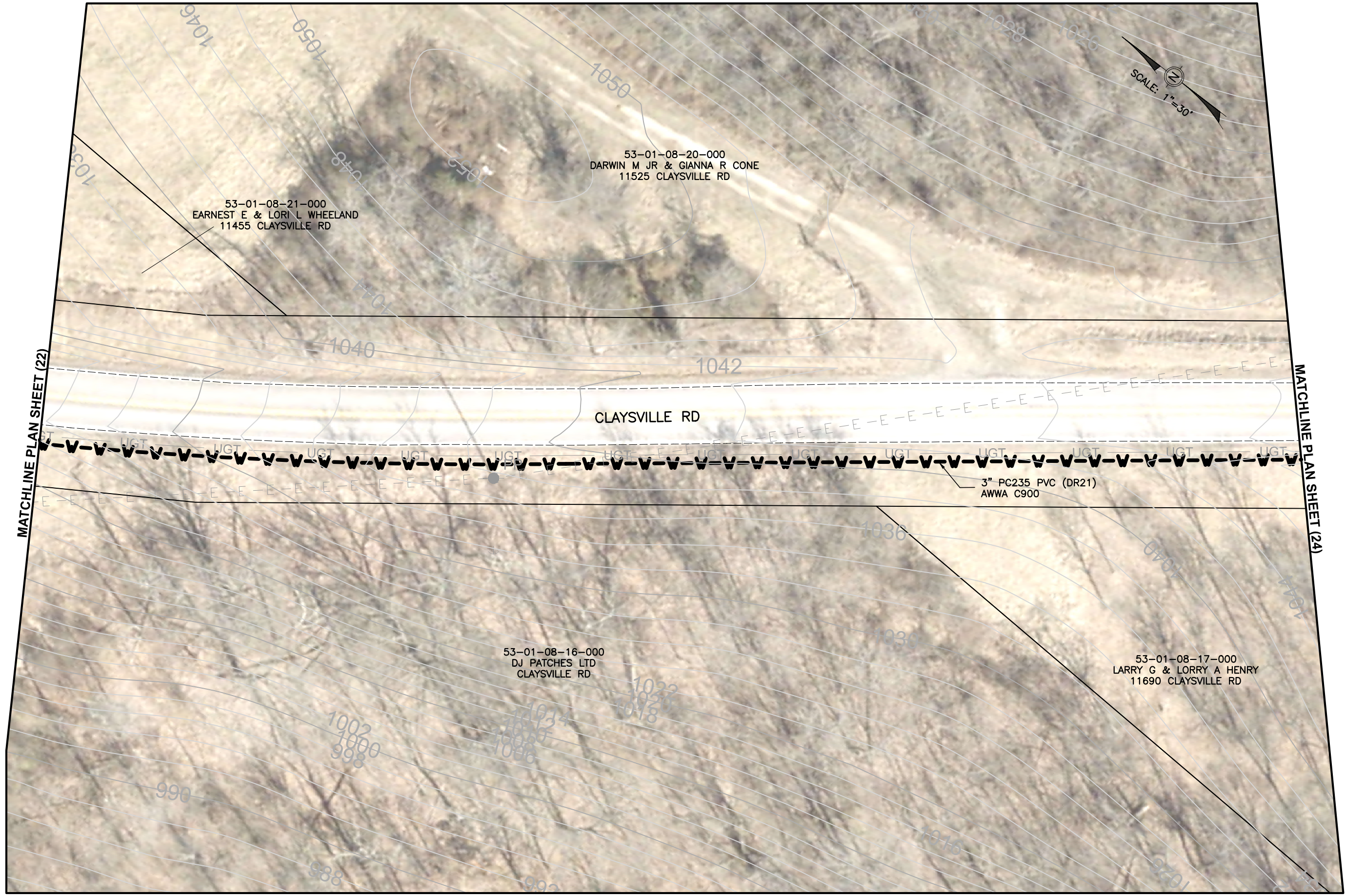
REVISION:

11" x 17"

PLAN SHEET (22)

30

62



Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
Markuskingum
County
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT LOCATION: CLAYSVILLE ROAD
CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

03/21/2024

REVISED:

SHEET SIZE:

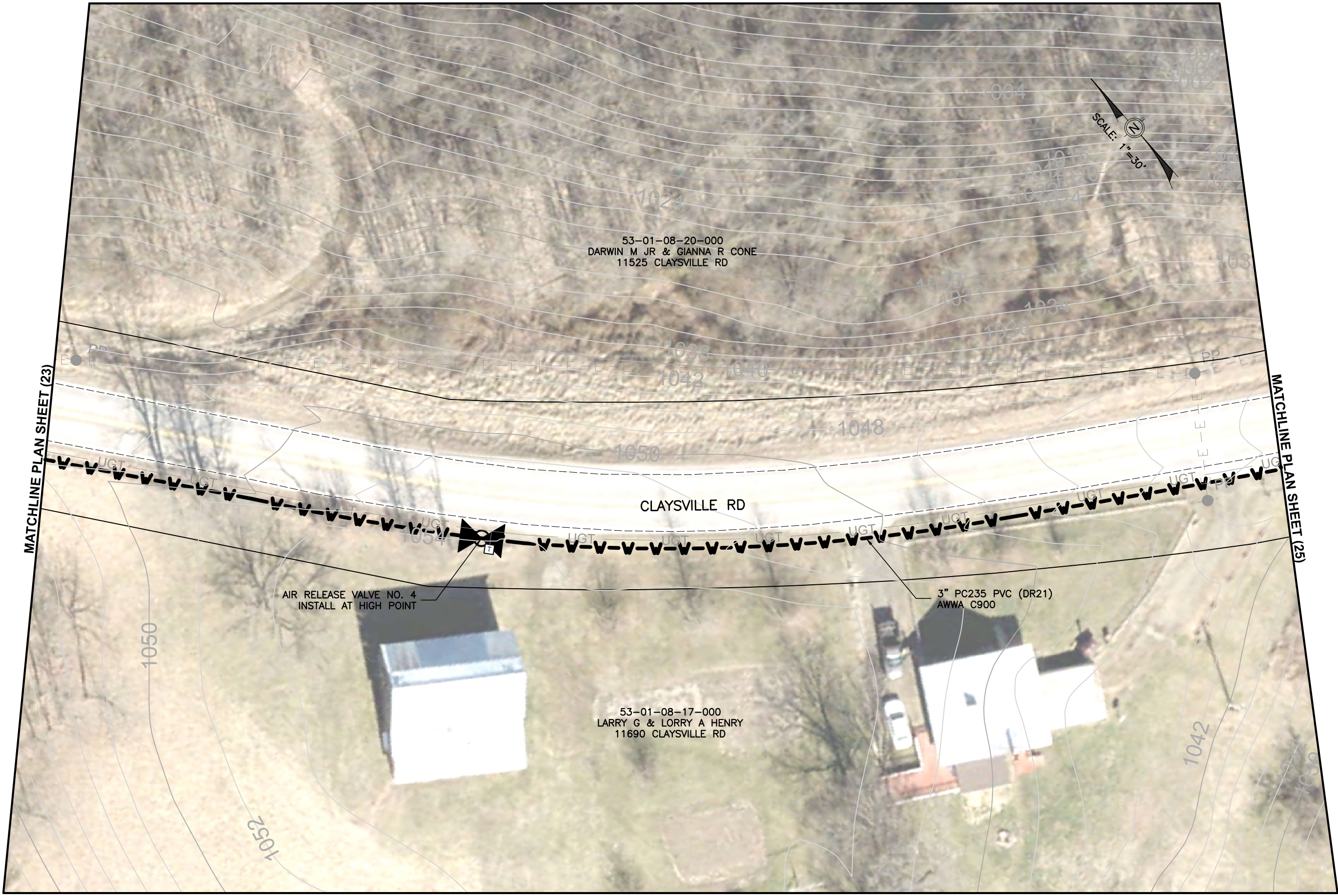
11" x 17"

SHEET NAME:

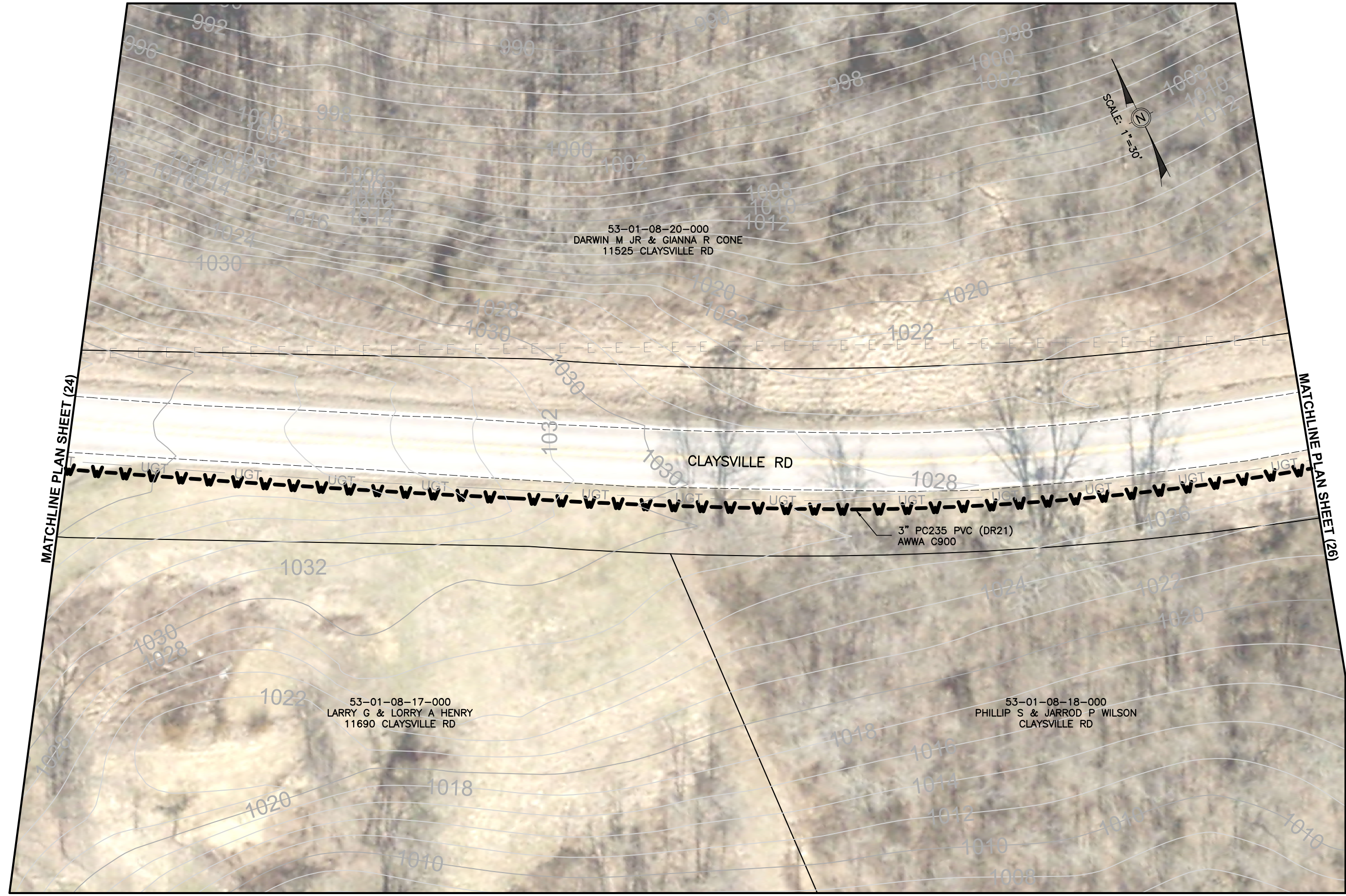
PLAN SHEET (23)

SHEET NUMBER:

31
62



<p>Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 ENGINEER'S OFFICE 740-454-0155</p>	
PREPARED BY:	PROJECT NAME:
	CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PLANS APPROVED BY:	PROJECT LOCATION:
MJE	CLAYSVILLE ROAD CHANDLERSVILLE, OH 43727
PLANS PREPARED BY:	
GJW	
DATE:	
03/21/2024	
REVISED:	
SHEET SIZE:	
11" x 17"	
SHEET NAME:	
PLAN SHEET (24)	
SHEET NUMBER:	
32	
62	



53-01-08-20-000
 DARWIN M JR & GIANNA R CONE
 11525 CLAYSVILLE RD

53-01-08-17-000
 LARRY G & LORRY A HENRY
 11690 CLAYSVILLE RD

53-01-08-18-000
 PHILLIP S & JARROD P WILSON
 CLAYSVILLE RD

3" PC235 PVC (DR21)
 AWWA C900

MATCHLINE PLAN SHEET (24)

MATCHLINE PLAN SHEET (26)

Mark J. Eicher, P.E., P.S.
 109 Graham Street
 Zanesville, Ohio 43701
Muskingum
County
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
 PROJECT LOCATION: CLAYSVILLE ROAD, CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:
 MJE

PLANS PREPARED BY:
 GJW

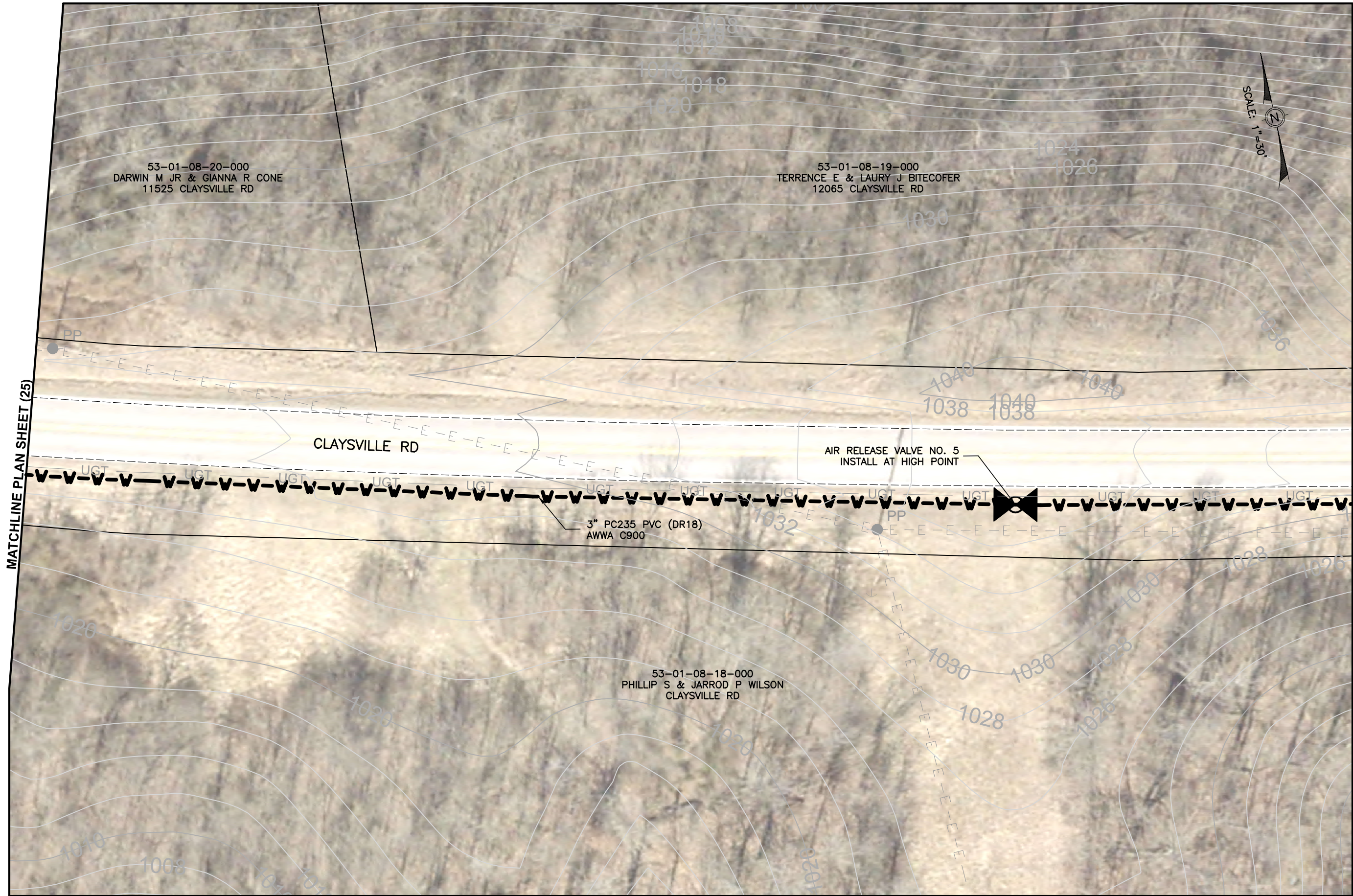
DATE:
 03/21/2024

REVISED:

SHEET SIZE:
 11" x 17"

SHEET NAME:
 PLAN SHEET (25)

SHEET NUMBER:
 33
 62



53-01-08-20-000
DARWIN M JR & GIANNA R CONE
11525 CLAYSVILLE RD

53-01-08-19-000
TERRENCE E & LAURY J BITECOFER
12065 CLAYSVILLE RD

53-01-08-18-000
PHILLIP S & JARROD P WILSON
CLAYSVILLE RD

AIR RELEASE VALVE NO. 5
INSTALL AT HIGH POINT

3" PC235 PVC (DR18)
AWWA C900

MATCHLINE PLAN SHEET (25)

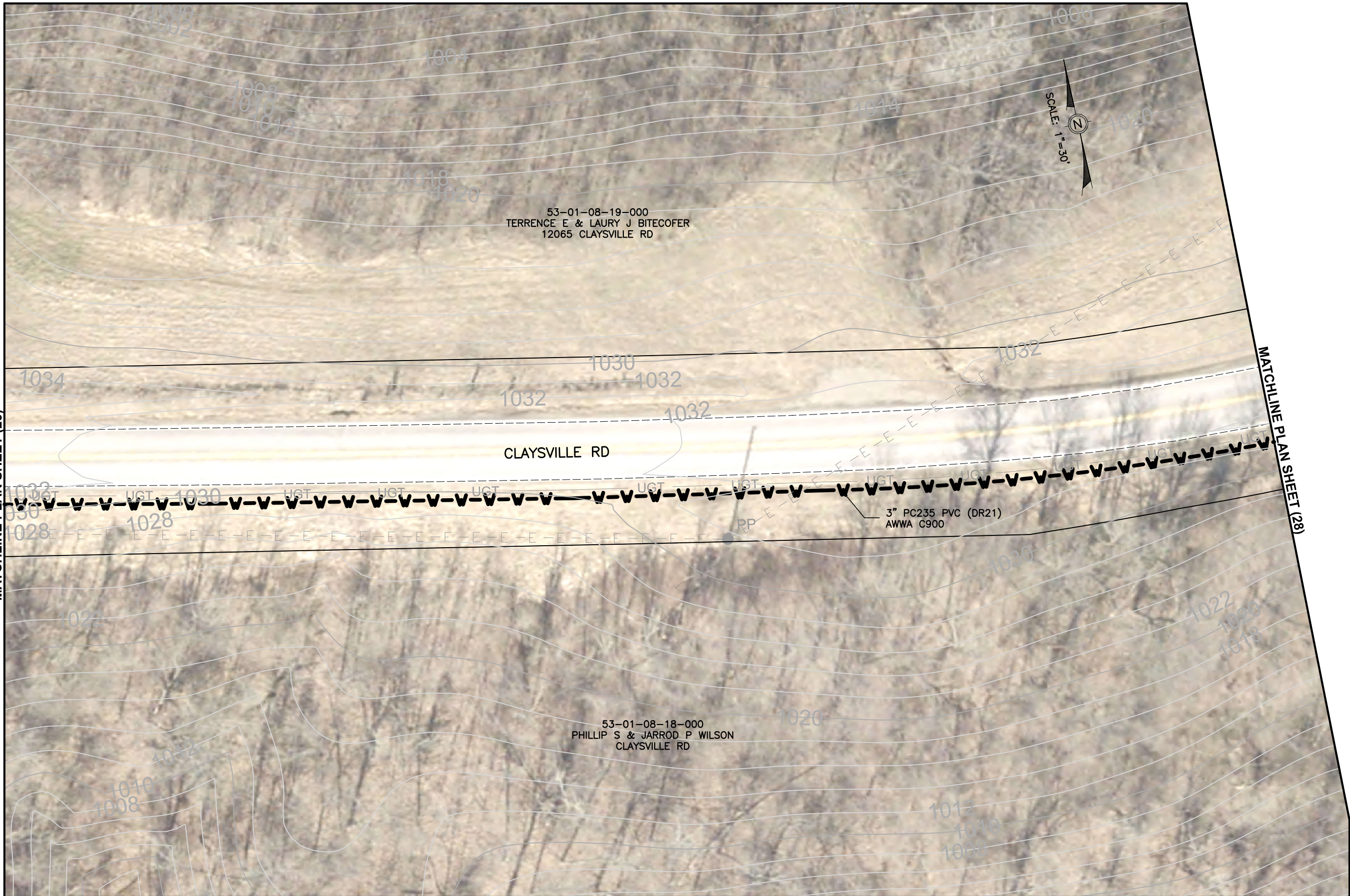
MATCHLINE PLAN SHEET (27)

Mark J. Eicher, P.E., P.S.
Muskingum
COUNTY
ENGINEER'S OFFICE
109 Graham Street
Zanesville, Ohio 43701
740-454-0155

PREPARED BY:	PROJECT NAME:
CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION	CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PROJECT LOCATION:	PROJECT LOCATION:
CLAYSVILLE ROAD CHANDLERSVILLE, OH 43727	CLAYSVILLE ROAD CHANDLERSVILLE, OH 43727
PLANS APPROVED BY:	PLANS APPROVED BY:
MJE	MJE
PLANS PREPARED BY:	PLANS PREPARED BY:
GJW	GJW
DATE:	DATE:
03/21/2024	03/21/2024
REVISED:	REVISED:
SHEET SIZE:	SHEET SIZE:
11" x 17"	11" x 17"
SHEET NAME:	SHEET NAME:
PLAN SHEET (26)	PLAN SHEET (26)
SHEET NUMBER:	SHEET NUMBER:
34	34
62	62

MATCHLINE PLAN SHEET (26)

MATCHLINE PLAN SHEET (28)



Mark J. Eicher, P.E., P.S.
 109 Graham Street
 Zanesville, Ohio 43701
Muskingum
COUNTY
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
 PROJECT LOCATION: CLAYSVILLE ROAD, CHANDLERSVILLE, OH 43727

PLANS APPROVED BY: MJE

PLANS PREPARED BY: GJW

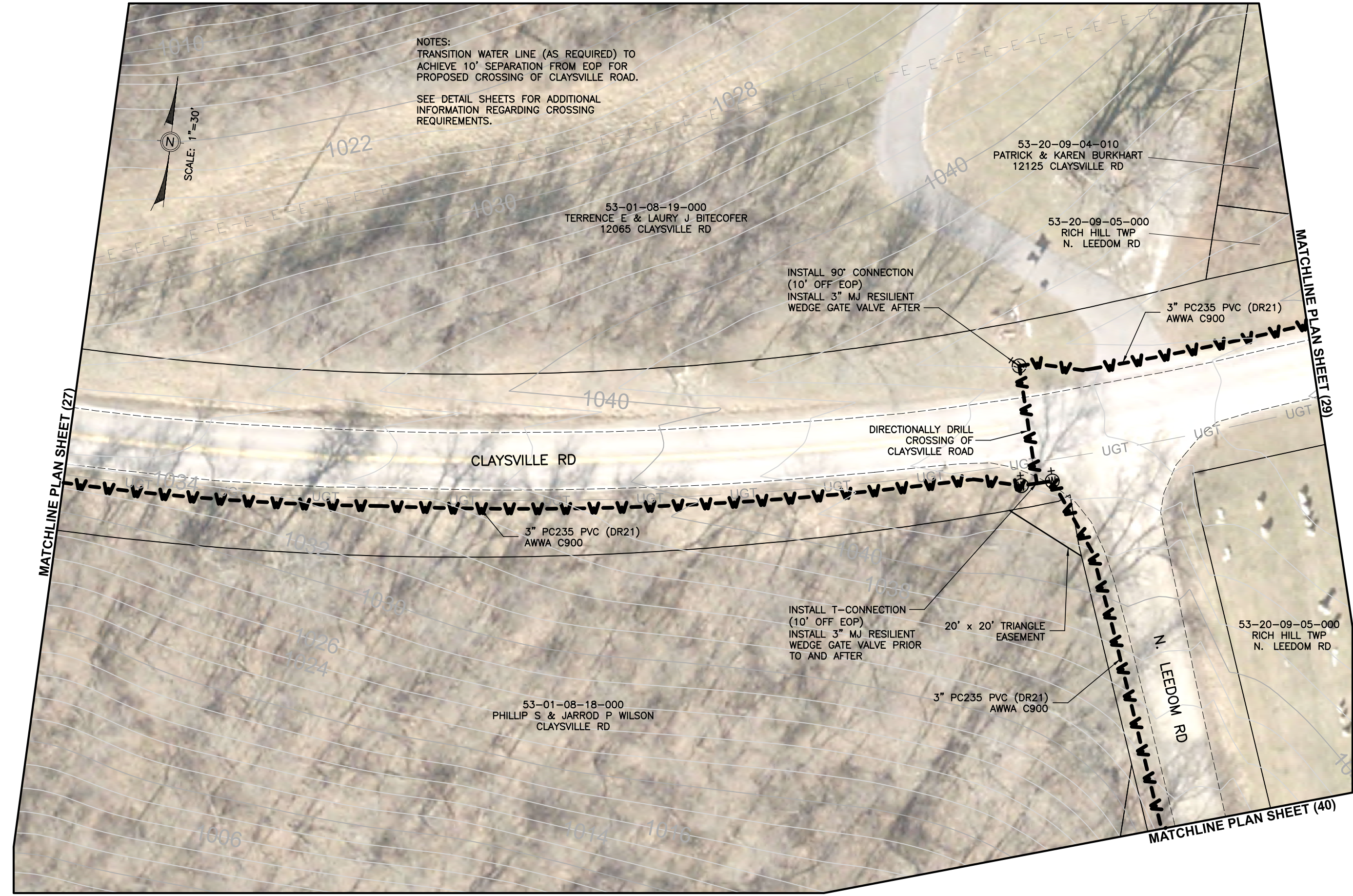
DATE: 03/21/2024

REVISED:

SHEET SIZE: 11" x 17"

SHEET NAME: PLAN SHEET (27)

SHEET NUMBER: 35 / 62



NOTES:
 TRANSITION WATER LINE (AS REQUIRED) TO
 ACHIEVE 10' SEPARATION FROM EOP FOR
 PROPOSED CROSSING OF CLAYSVILLE ROAD.
 SEE DETAIL SHEETS FOR ADDITIONAL
 INFORMATION REGARDING CROSSING
 REQUIREMENTS.

53-01-08-19-000
 TERENCE E & LAURY J BITECOFER
 12065 CLAYSVILLE RD

53-20-09-04-010
 PATRICK & KAREN BURKHART
 12125 CLAYSVILLE RD

53-20-09-05-000
 RICH HILL TWP
 N. LEEDOM RD

CLAYSVILLE RD

3" PC235 PVC (DR21)
 AWWA C900

53-01-08-18-000
 PHILLIP S & JARROD P WILSON
 CLAYSVILLE RD

INSTALL 90° CONNECTION
 (10' OFF EOP)
 INSTALL 3" MJ RESILIENT
 WEDGE GATE VALVE AFTER

DIRECTIONALLY DRILL
 CROSSING OF
 CLAYSVILLE ROAD

INSTALL T-CONNECTION
 (10' OFF EOP)
 INSTALL 3" MJ RESILIENT
 WEDGE GATE VALVE PRIOR
 TO AND AFTER

20' x 20' TRIANGLE
 EASEMENT

3" PC235 PVC (DR21)
 AWWA C900

N.
 LEEDOM
 RD

53-20-09-05-000
 RICH HILL TWP
 N. LEEDOM RD

MATCHLINE PLAN SHEET (27)

MATCHLINE PLAN SHEET (29)

MATCHLINE PLAN SHEET (40)

Mark J. Eicher, P.E., P.S.
 109 Graham Street
 Zanesville, Ohio 43701
Markuskingum
County
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT LOCATION: CLAYSVILLE ROAD
 CHANDLERSVILLE, OH 43727

PLANS APPROVED BY: MJE

PLANS PREPARED BY: GJW

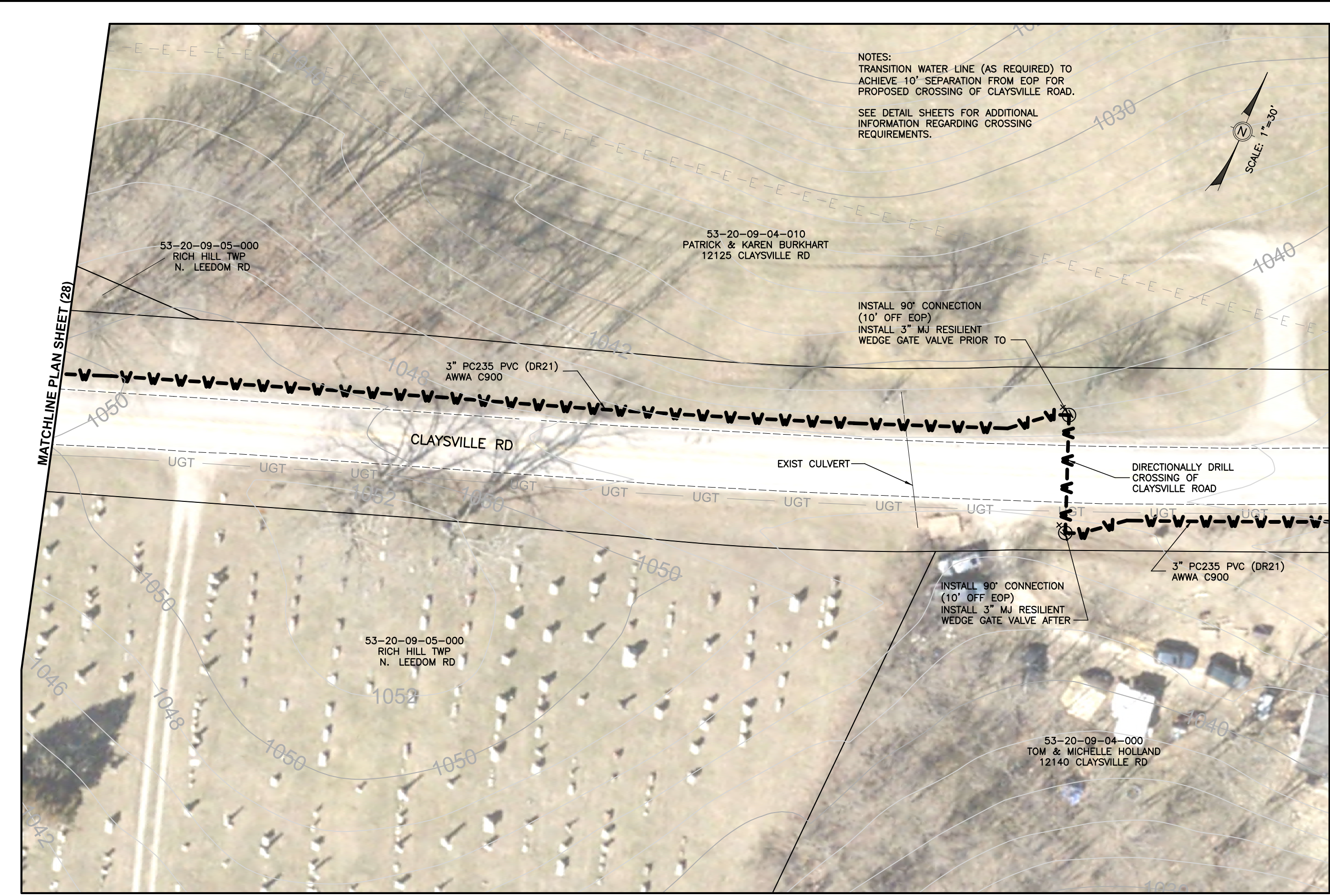
DATE: 03/21/2024

REVISED:

SHEET SIZE: 11" x 17"

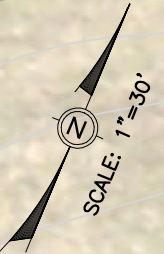
SHEET NAME: PLAN SHEET (28)

SHEET NUMBER: 36 / 62




NOTES:
 TRANSITION WATER LINE (AS REQUIRED) TO
 ACHIEVE 10' SEPARATION FROM EOP FOR
 PROPOSED CROSSING OF CLAYSVILLE ROAD.

SEE DETAIL SHEETS FOR ADDITIONAL
 INFORMATION REGARDING CROSSING
 REQUIREMENTS.



MATCHLINE PLAN SHEET (28)

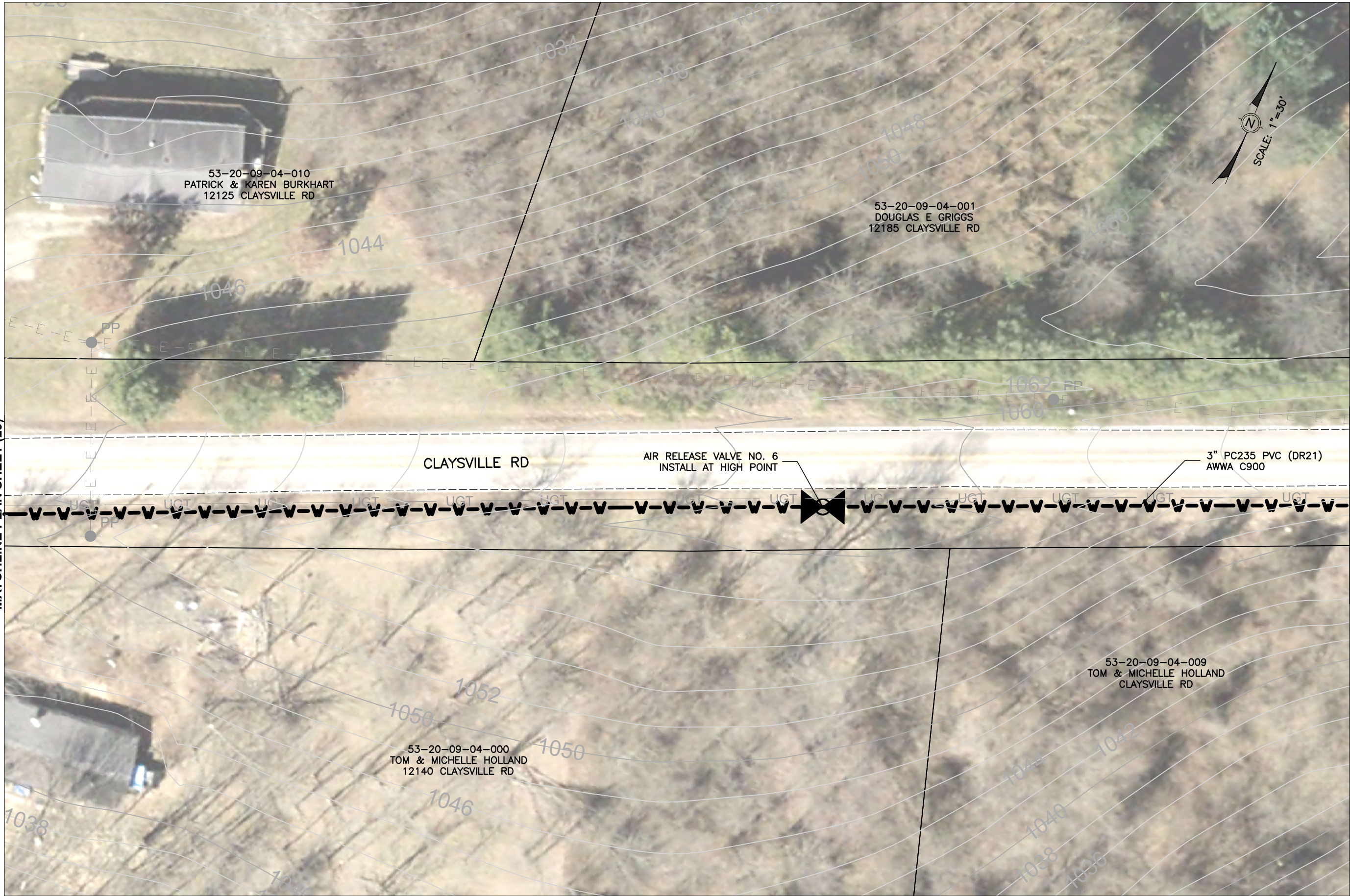
MATCHLINE PLAN SHEET (30)

PREPARED BY:  Muskingum COUNTY ENGINEER'S OFFICE	
PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION	PROJECT LOCATION: CLAYSVILLE ROAD CHANDLERSVILLE, OH 43727
PLANS APPROVED BY: MJE	
PLANS PREPARED BY: GJW	
DATE: 03/21/2024	
REVISED:	
SHEET SIZE: 11" x 17"	
SHEET NAME: PLAN SHEET (29)	
SHEET NUMBER: <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> 37 62 </div>	

Mark J. Eicher, P.E., P.S.
 109 Graham Street
 Zanesville, Ohio 43701
 740-454-0155

MATCHLINE PLAN SHEET (29)

MATCHLINE PLAN SHEET (31)



Mark J. Eicher, P.E., P.S.
Muskington
 COUNTY
 ENGINEER'S OFFICE
 109 Graham Street
 Zanesville, Ohio 43701
 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT LOCATION:

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

03/21/2024

REVISED:

SHEET SIZE:

11" x 17"

SHEET NAME:

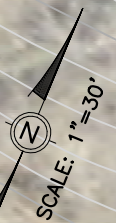
PLAN SHEET (30)

SHEET NUMBER:

38
62

MATCHLINE PLAN SHEET (30)

MATCHLINE PLAN SHEET (32)



Mark J. Eicher, P.E., P.S.
 109 Graham Street
 Zanesville, Ohio 43701
Muskingum
County
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT LOCATION:

CLAYSVILLE ROAD
CHANDLERSVILLE, OH 43727

PLANS APPROVED BY: MJE

PLANS PREPARED BY: GJW

DATE: 03/21/2024

REVISED:

SHEET SIZE: 11" x 17"

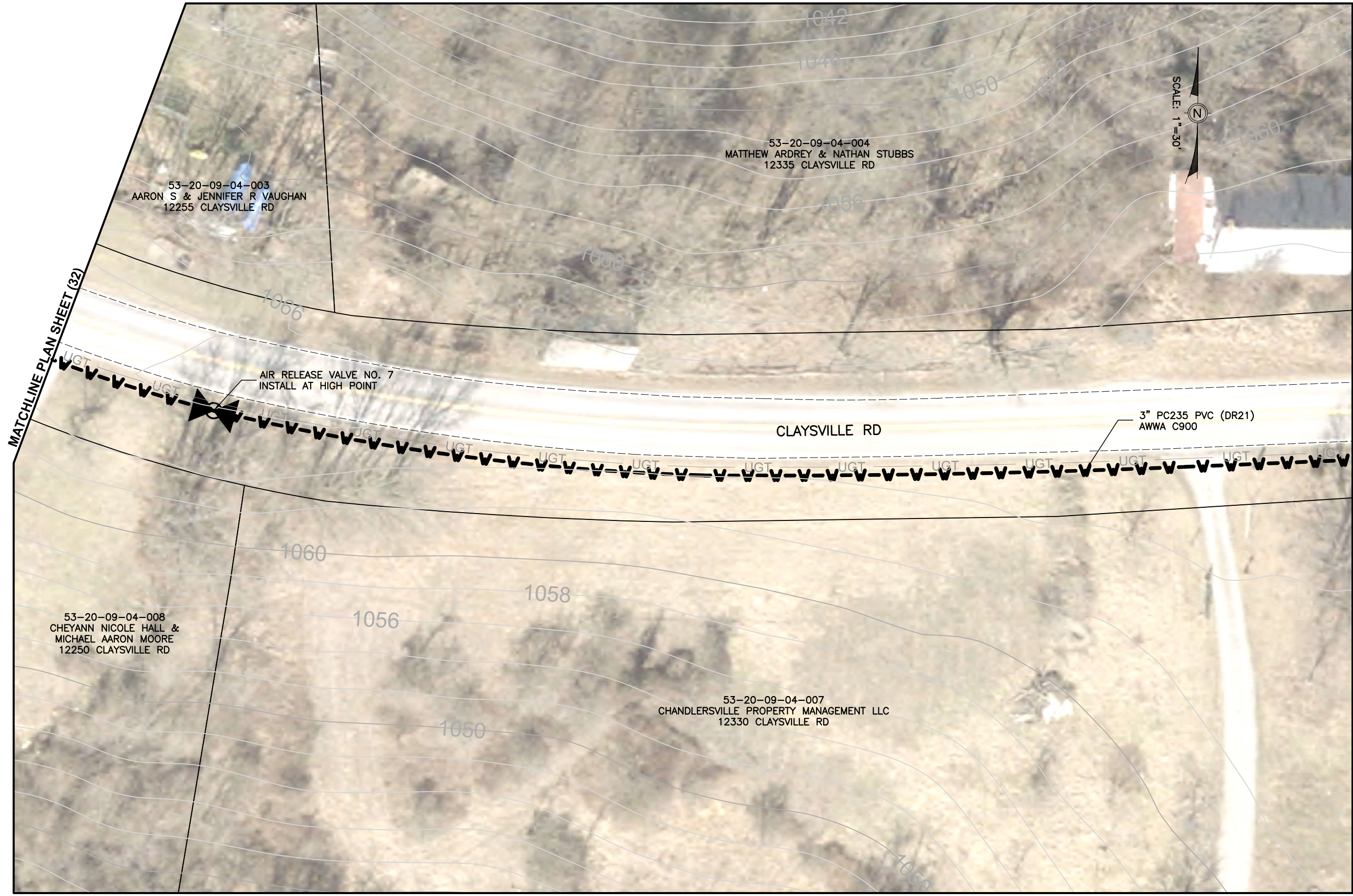
SHEET NAME: PLAN SHEET (31)

SHEET NUMBER:

39
62



<p>Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 ENGINEER'S OFFICE 740-454-0155</p>	
<p>PROJECT NAME CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION</p>	<p>PROJECT LOCATION CLAYSVILLE ROAD CHANDLERSVILLE, OH 43727</p>
<p>PLANS APPROVED BY: MJE</p>	
<p>PLANS PREPARED BY: GJW</p>	
<p>DATE 03/21/2024</p>	
<p>REVISED:</p>	
<p>SHEET SIZE 11" x 17"</p>	
<p>SHEET NAME PLAN SHEET (32)</p>	
<p>SHEET NUMBER 40 / 62</p>	



MATCHLINE PLAN SHEET (32)

MATCHLINE PLAN SHEET (34)

Mark J. Eicher, P.E., P.S.
Muskingum
 COUNTY
 ENGINEER'S OFFICE 740-454-0155

109 Graham Street
 Zanesville, Ohio 43701

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
 PROJECT LOCATION: CHANDLERSVILLE, OH 43727

PLANS APPROVED BY: MJE

PLANS PREPARED BY: GJW

DATE: 03/21/2024

REVISIONS:

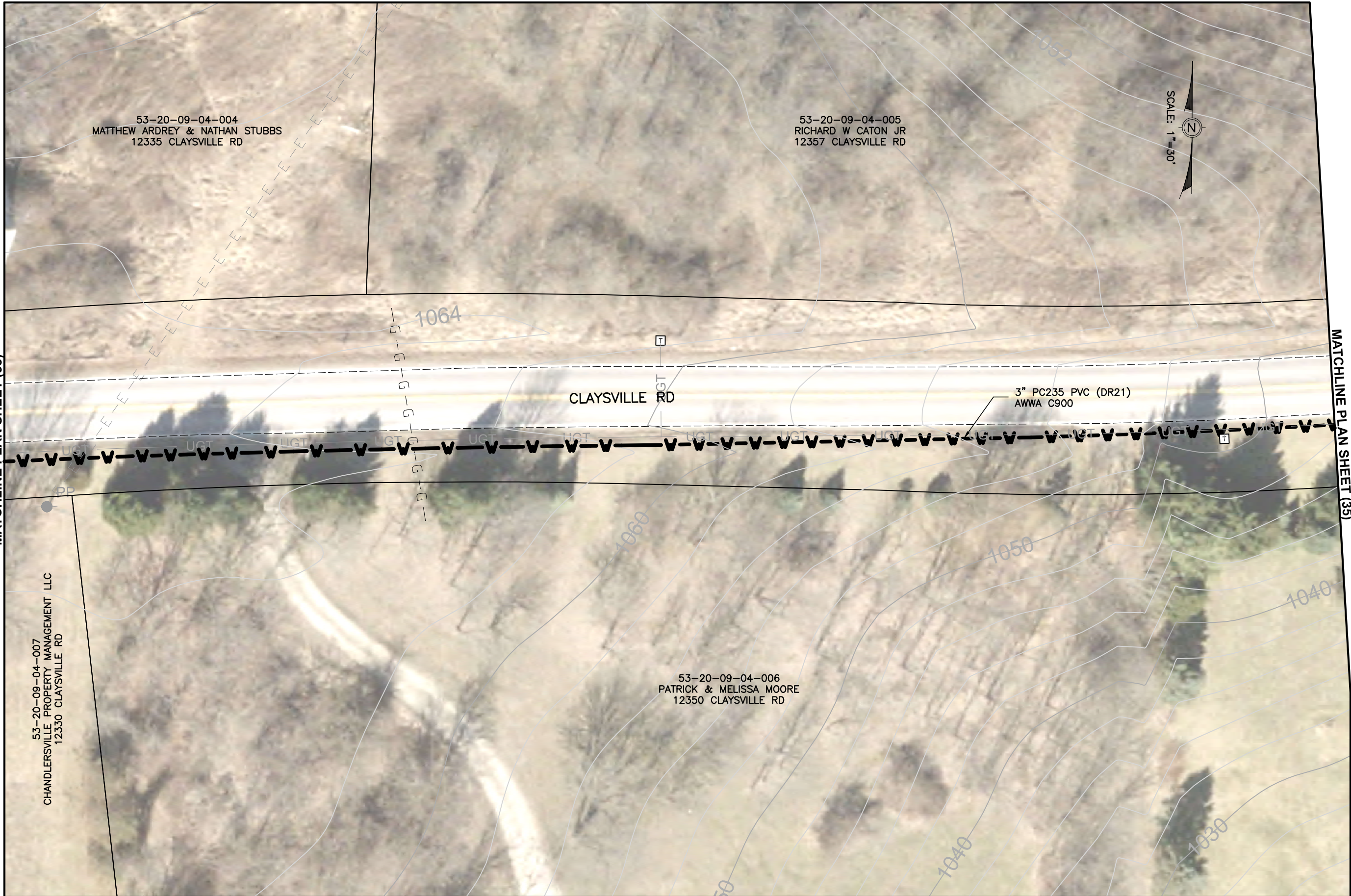
SHEET SIZE: 11" x 17"

SHEET NAME: PLAN SHEET (33)

SHEET NUMBER: 41

MATCHLINE PLAN SHEET (33)

MATCHLINE PLAN SHEET (35)



53-20-09-04-004
 MATTHEW ARDREY & NATHAN STUBBS
 12335 CLAYSVILLE RD

53-20-09-04-005
 RICHARD W CATON JR
 12357 CLAYSVILLE RD

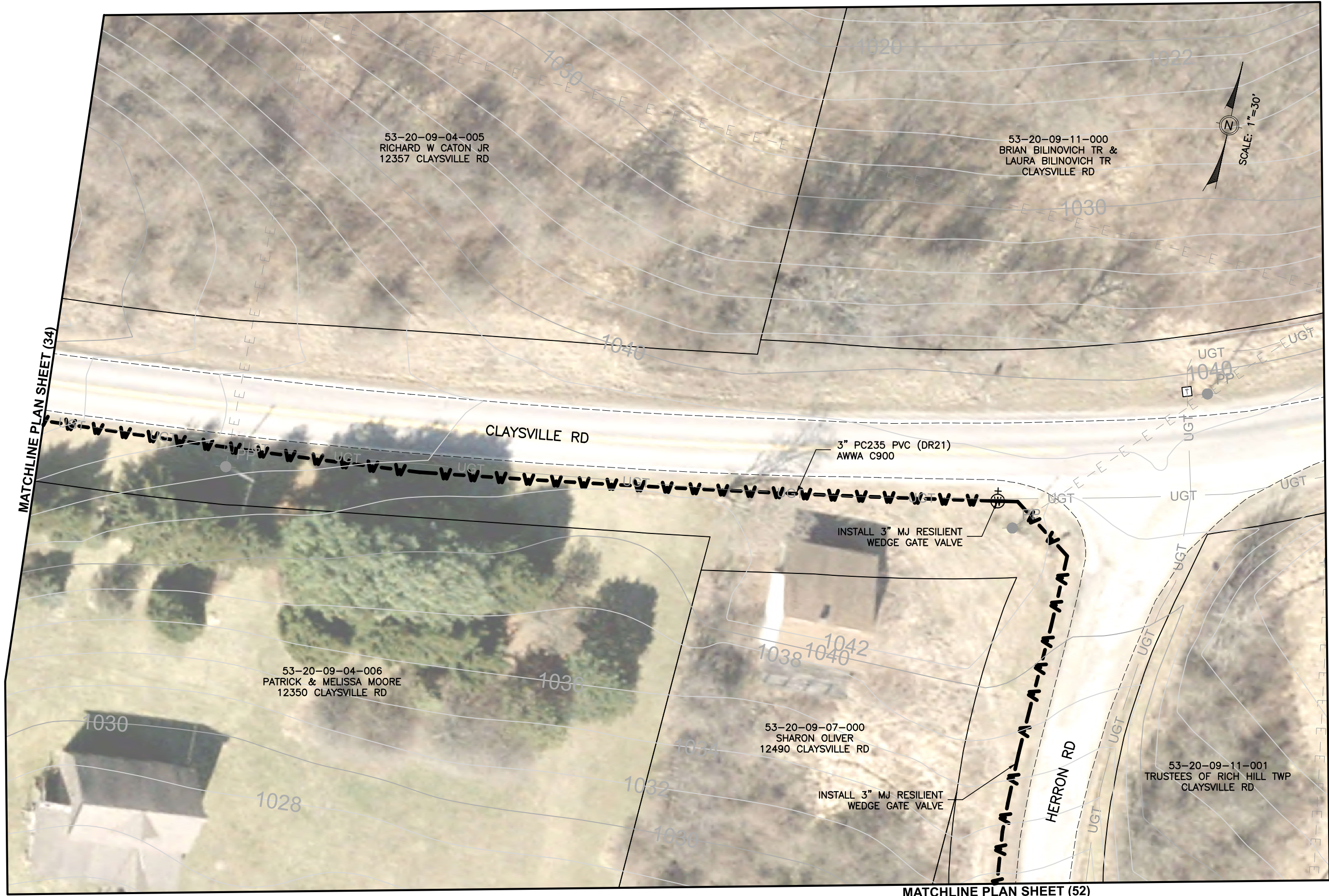
53-20-09-04-007
 CHANDLERSVILLE PROPERTY MANAGEMENT LLC
 12330 CLAYSVILLE RD

53-20-09-04-006
 PATRICK & MELISSA MOORE
 12350 CLAYSVILLE RD

3" PC235 PVC (DR21)
 AWWA C900



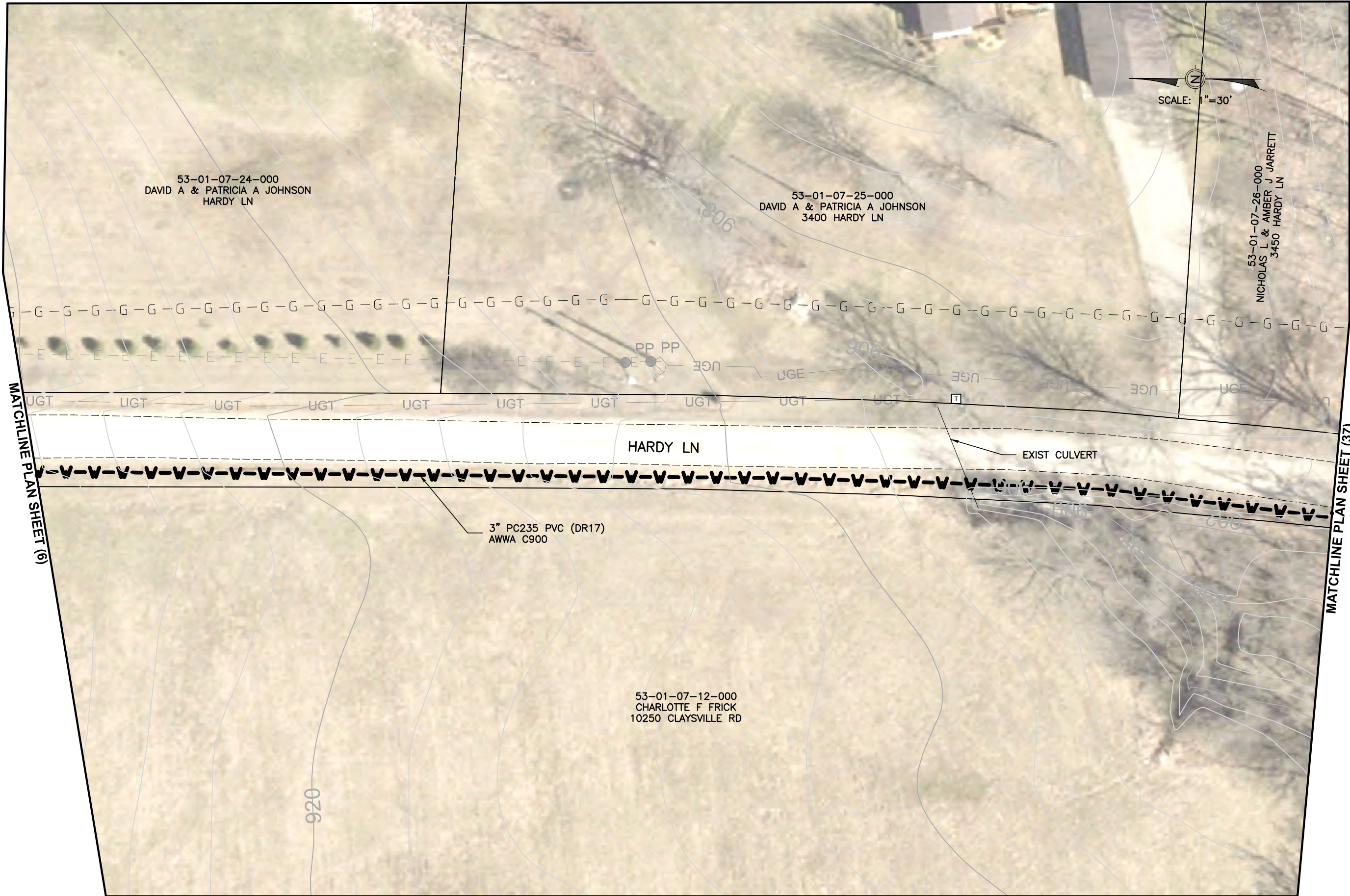
Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 ENGINEER'S OFFICE 740-454-0155	
PREPARED BY: MJE	PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PLANS APPROVED BY: MJE	PROJECT LOCATION: CLAYSVILLE ROAD CHANDLERSVILLE, OH 43727
PLANS PREPARED BY: GJW	DATE: 03/21/2024
REVISIONS: (Empty)	SHEET SIZE: 11" x 17"
SHEET NAME: PLAN SHEET (34)	SHEET NUMBER: 42 / 62



MATCHLINE PLAN SHEET (34)

MATCHLINE PLAN SHEET (52)

PREPARED BY: Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 740-454-0155	
PROJECT NAME:	CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PROJECT LOCATION:	CLAYSVILLE ROAD CHANDLERSVILLE, OH 43727
PLANS APPROVED BY:	MJE
PLANS PREPARED BY:	GJW
DATE:	03/21/2024
REVISED:	
SHEET SIZE:	11" x 17"
SHEET NAME:	PLAN SHEET (35)
SHEET NUMBER:	43



SCALE: 1"=30'

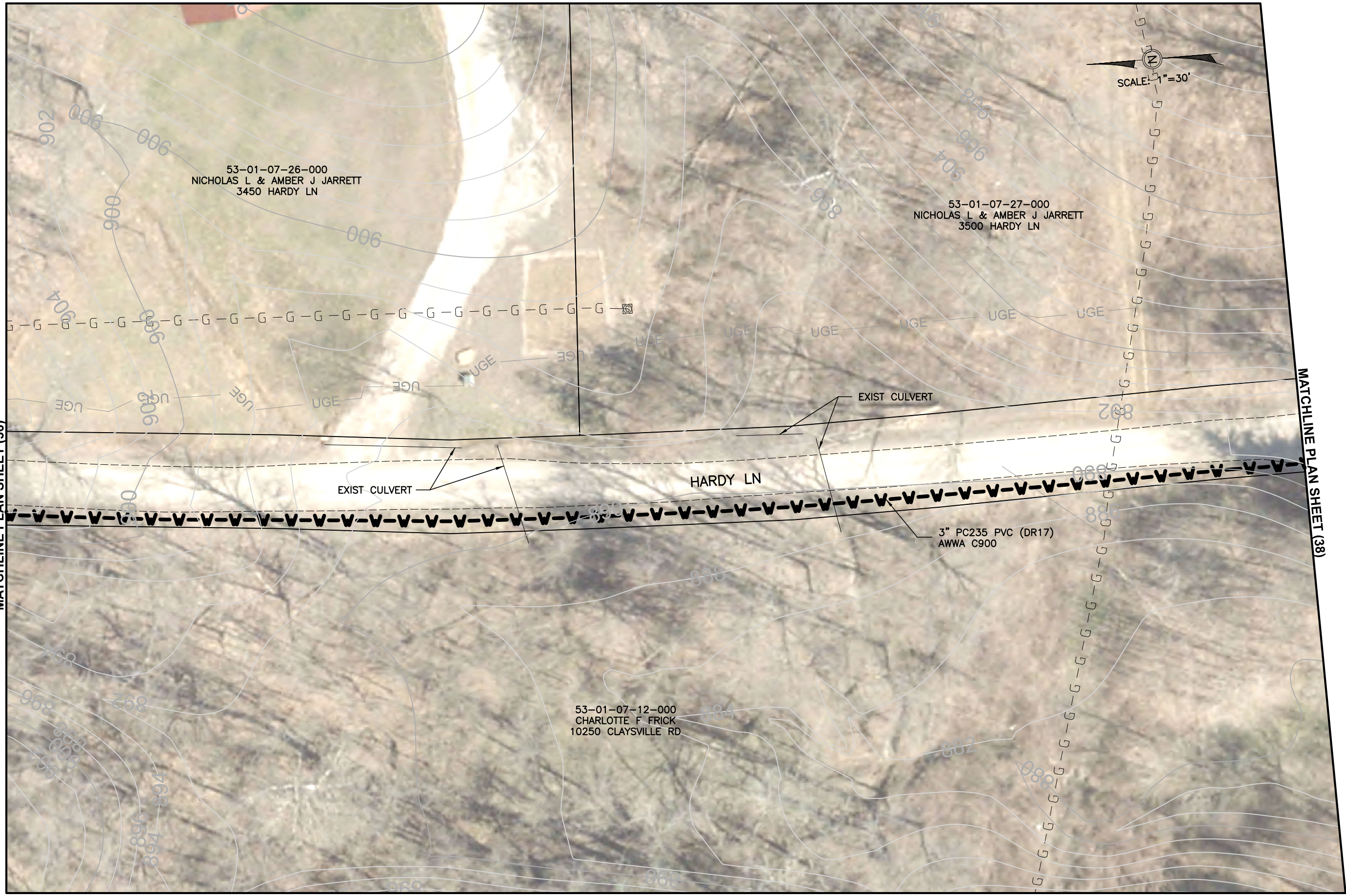
MATCHLINE PLAN SHEET (6)

MATCHLINE PLAN SHEET (37)

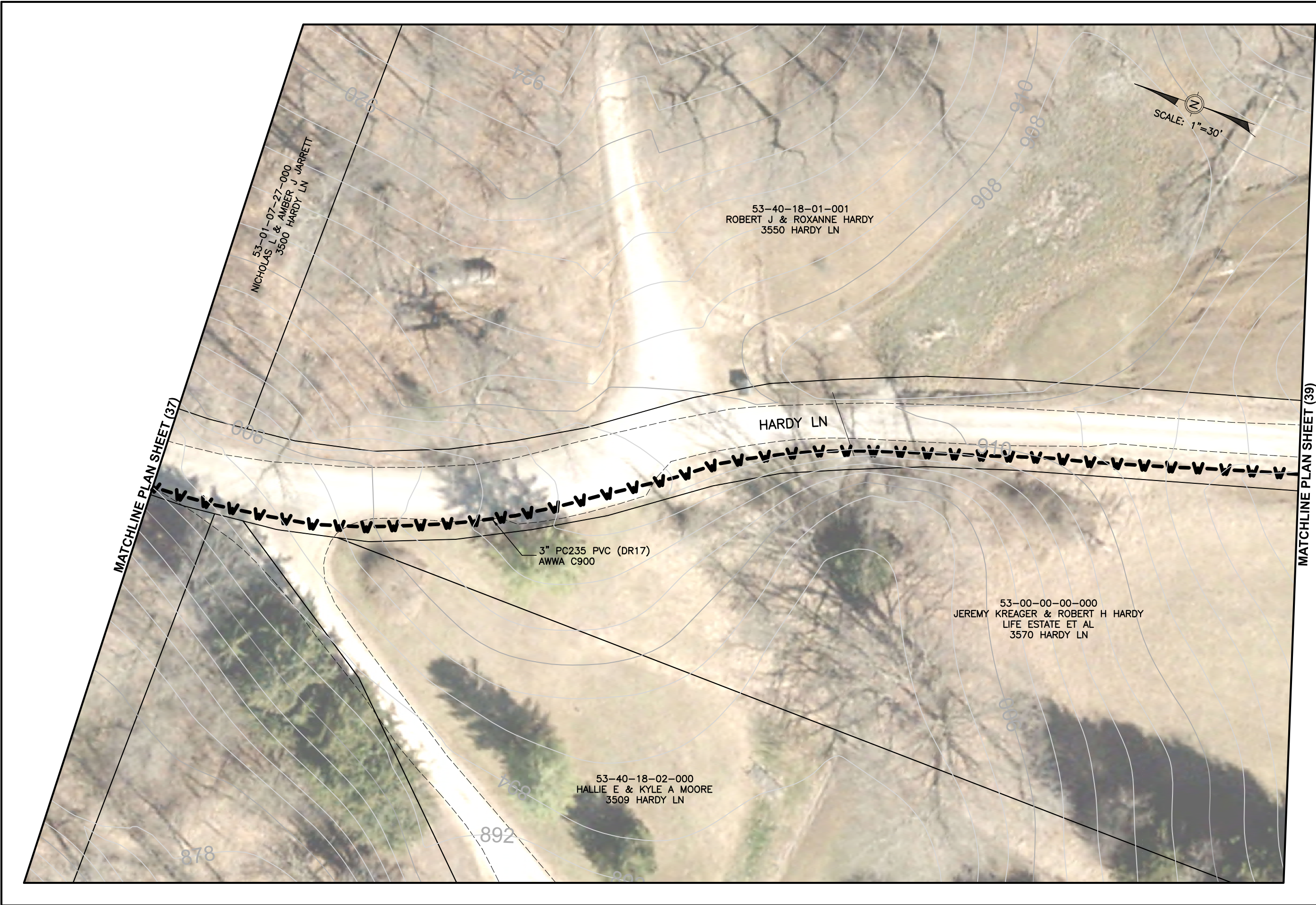
Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 740-454-0155	
PREPARED BY: MJE	PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PLANS APPROVED BY: MJE	PROJECT LOCATION: HARDY LANE CHANDLERSVILLE, OH 43727
PLANS PREPARED BY: GJW	DATE: 03/21/2024
SHEET SIZE: 11" x 17"	SHEET NAME: PLAN SHEET (36)
SHEET NUMBER: 44	SHEET NUMBER: 62

MATCHLINE PLAN SHEET (36)

MATCHLINE PLAN SHEET (38)



<p>Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 ENGINEER'S OFFICE 740-454-0155</p>	
PREPARED BY:	
PROJECT NAME:	CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PROJECT LOCATION:	HARDY LANE CHANDLERSVILLE, OH 43727
PLANS APPROVED BY:	MJE
PLANS PREPARED BY:	GJW
DATE:	03/21/2024
REVISED:	
SHEET SIZE:	11" x 17"
SHEET NAME:	PLAN SHEET (37)
SHEET NUMBER:	45



Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
Muskingum
County
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PROJECT LOCATION: HARDY LANE, CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:
MJE

PLANS PREPARED BY:
GJW

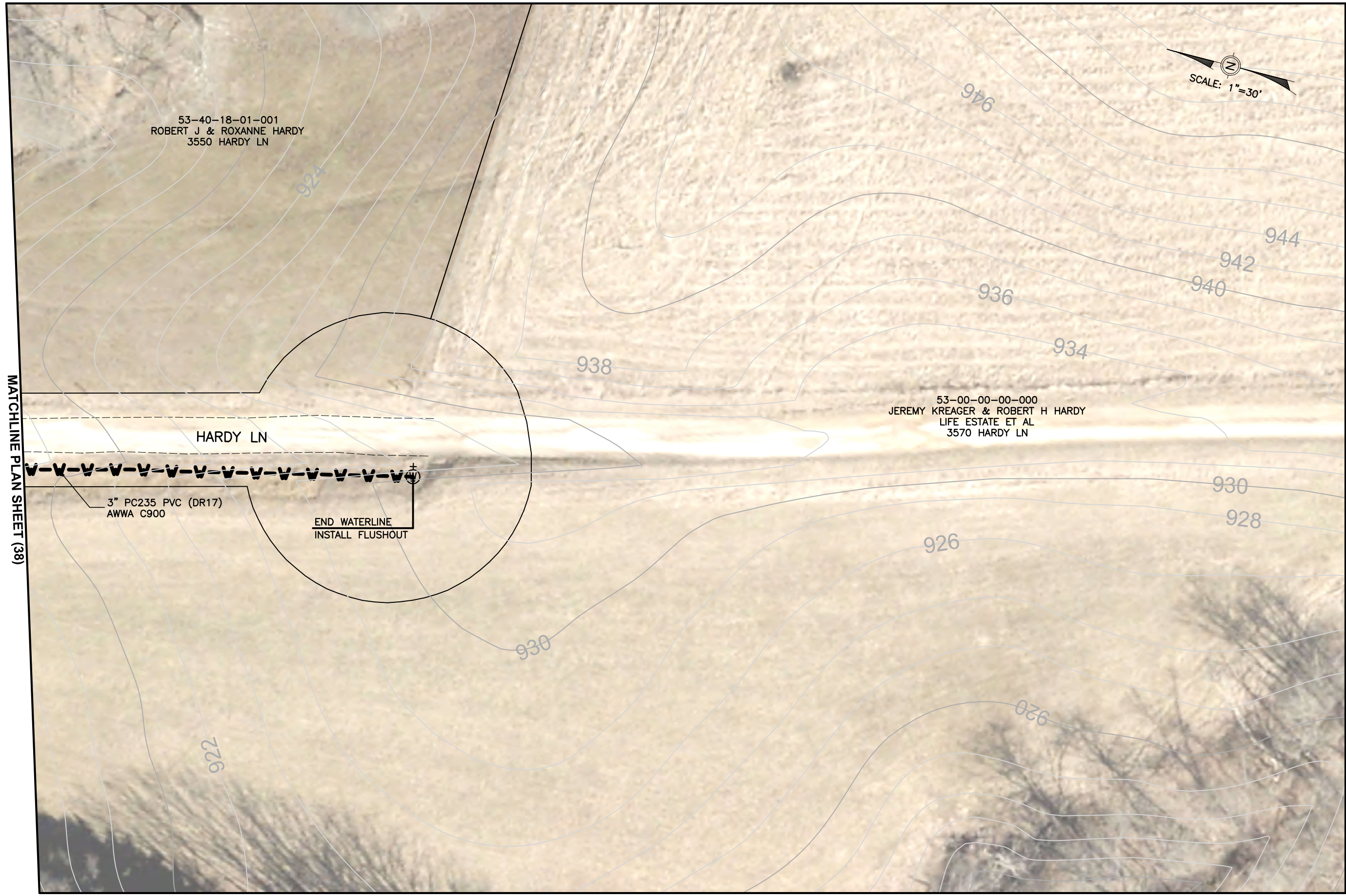
DATE:
03/21/2024

REVISED:

SHEET SIZE:
11" x 17"

SHEET NAME:
PLAN SHEET (38)

SHEET NUMBER:
46
62



53-40-18-01-001
 ROBERT J & ROXANNE HARDY
 3550 HARDY LN

53-00-00-00-000
 JEREMY KREAGER & ROBERT H HARDY
 LIFE ESTATE ET AL
 3570 HARDY LN

SCALE: 1"=30'

MATCHLINE PLAN SHEET (38)

3" PC235 PVC (DR17)
 AWWA C900

END WATERLINE
 INSTALL FLUSHOUT

Mark J. Eicher, P.E., P.S.
 109 Graham Street
 Zanesville, Ohio 43701
Muskingum
County
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
 PROJECT LOCATION: HARDY LANE, CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:
 MJE

PLANS PREPARED BY:
 GJW

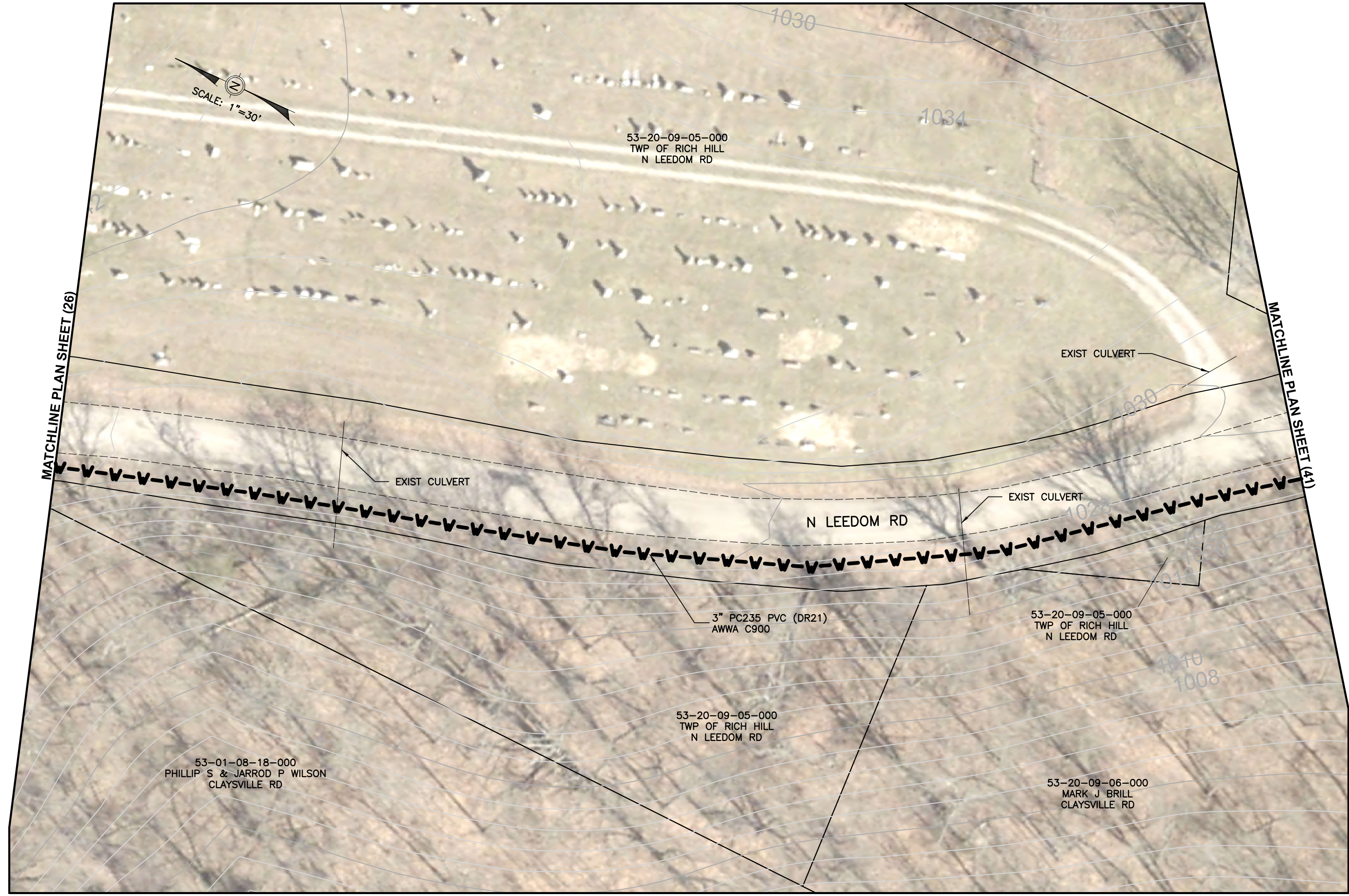
DATE:
 03/21/2024

REVISED:

SHEET SIZE:
 11" x 17"

SHEET NAME:
 PLAN SHEET (39)

SHEET NUMBER:
 47
 62



SCALE: 1"=30'

MATCHLINE PLAN SHEET (26)

MATCHLINE PLAN SHEET (41)

53-01-08-18-000
PHILLIP S & JARROD P WILSON
CLAYSVILLE RD

53-20-09-05-000
TWP OF RICH HILL
N LEEDOM RD

53-20-09-05-000
TWP OF RICH HILL
N LEEDOM RD

3" PC235 PVC (DR21)
AWWA C900

53-20-09-05-000
TWP OF RICH HILL
N LEEDOM RD

53-20-09-06-000
MARK J BRILL
CLAYSVILLE RD

Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
Muskingum
COUNTY
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PROJECT LOCATION: N LEEDOM ROAD, CHANDLERSVILLE, OH 43727

PLANS APPROVED BY: MJE

PLANS PREPARED BY: GJW

DATE: 03/21/2024

REVISED:

SHEET SIZE: 11" x 17"

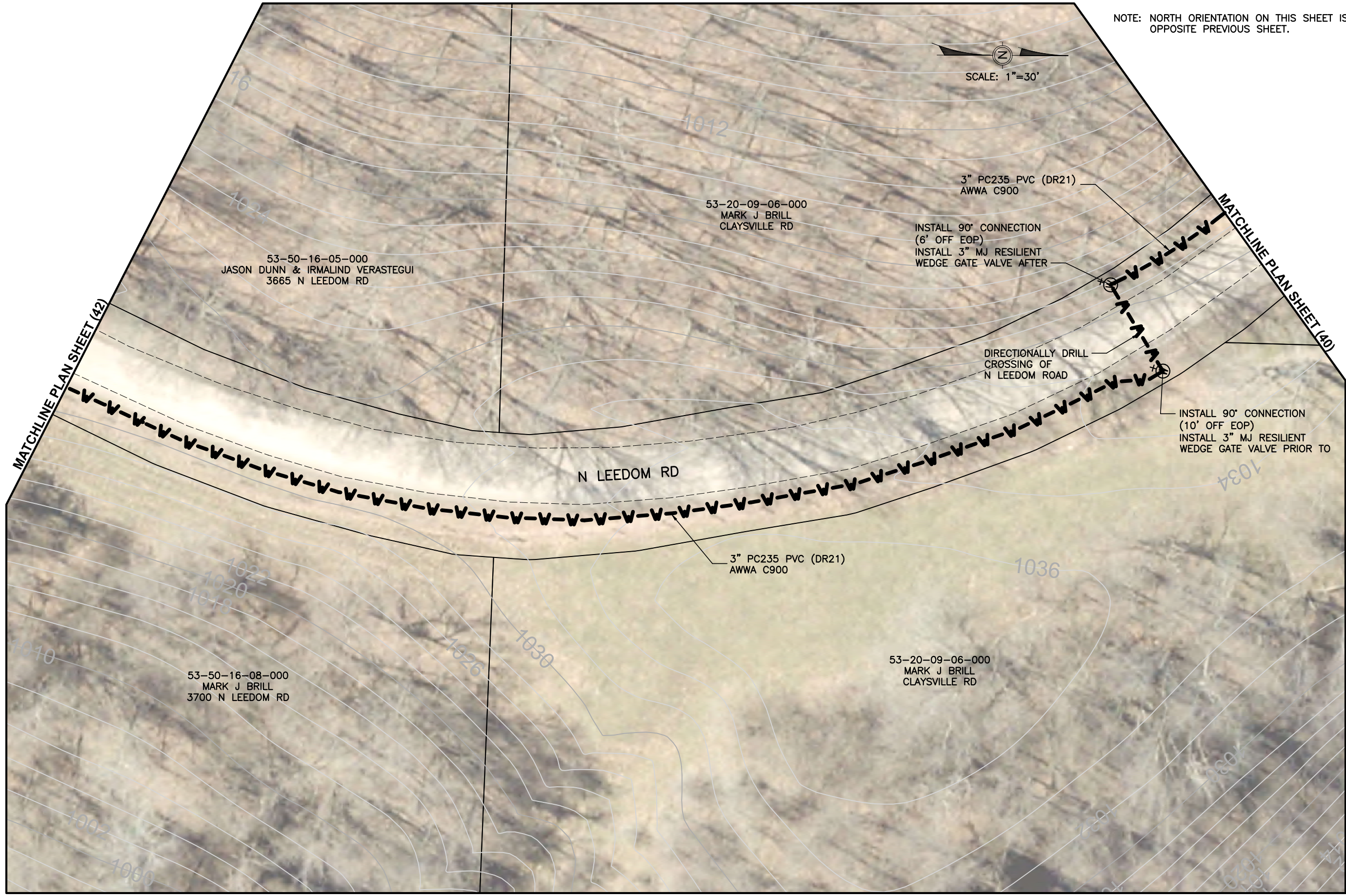
SHEET NAME: PLAN SHEET (40)

SHEET NUMBER: 48 / 62

NOTE: NORTH ORIENTATION ON THIS SHEET IS OPPOSITE PREVIOUS SHEET.



SCALE: 1"=30'



53-50-16-05-000
JASON DUNN & IRMALIND VERASTEGUI
3665 N LEEDOM RD

53-20-09-06-000
MARK J BRILL
CLAYSVILLE RD

3" PC235 PVC (DR21)
AWWA C900

INSTALL 90° CONNECTION
(6' OFF EOP)
INSTALL 3" MJ RESILIENT
WEDGE GATE VALVE AFTER

DIRECTIONALLY DRILL
CROSSING OF
N LEEDOM ROAD

INSTALL 90° CONNECTION
(10' OFF EOP)
INSTALL 3" MJ RESILIENT
WEDGE GATE VALVE PRIOR TO

N LEEDOM RD

3" PC235 PVC (DR21)
AWWA C900

53-20-09-06-000
MARK J BRILL
CLAYSVILLE RD

53-50-16-08-000
MARK J BRILL
3700 N LEEDOM RD

Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
Muskingum
COUNTY
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT LOCATION: N LEEDOM ROAD
CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

03/21/2024

REVISED:

SHEET SIZE:

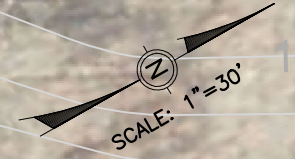
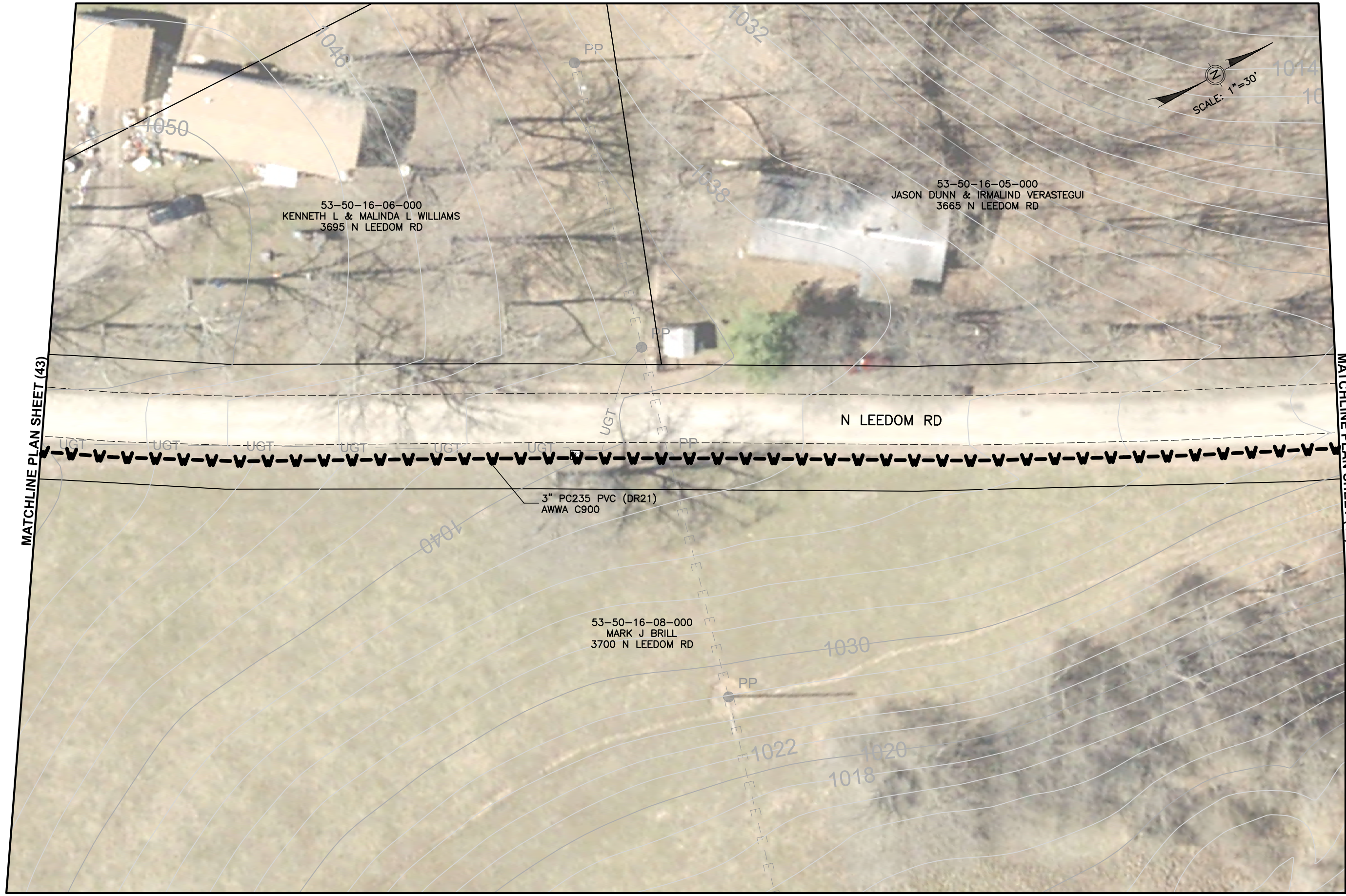
11" x 17"

SHEET NAME:

PLAN SHEET (41)

SHEET NUMBER:

49
62



53-50-16-06-000
KENNETH L & MALINDA L WILLIAMS
3695 N LEEDOM RD

53-50-16-05-000
JASON DUNN & IRMALIND VERASTEGUI
3665 N LEEDOM RD

3" PC235 PVC (DR21)
AWWA C900

53-50-16-08-000
MARK J BRILL
3700 N LEEDOM RD

MATCHLINE PLAN SHEET (43)

MATCHLINE PLAN SHEET (41)

Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
Muskingum
County
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PROJECT LOCATION: N LEEDOM ROAD, CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:
MJE

PLANS PREPARED BY:
GJW

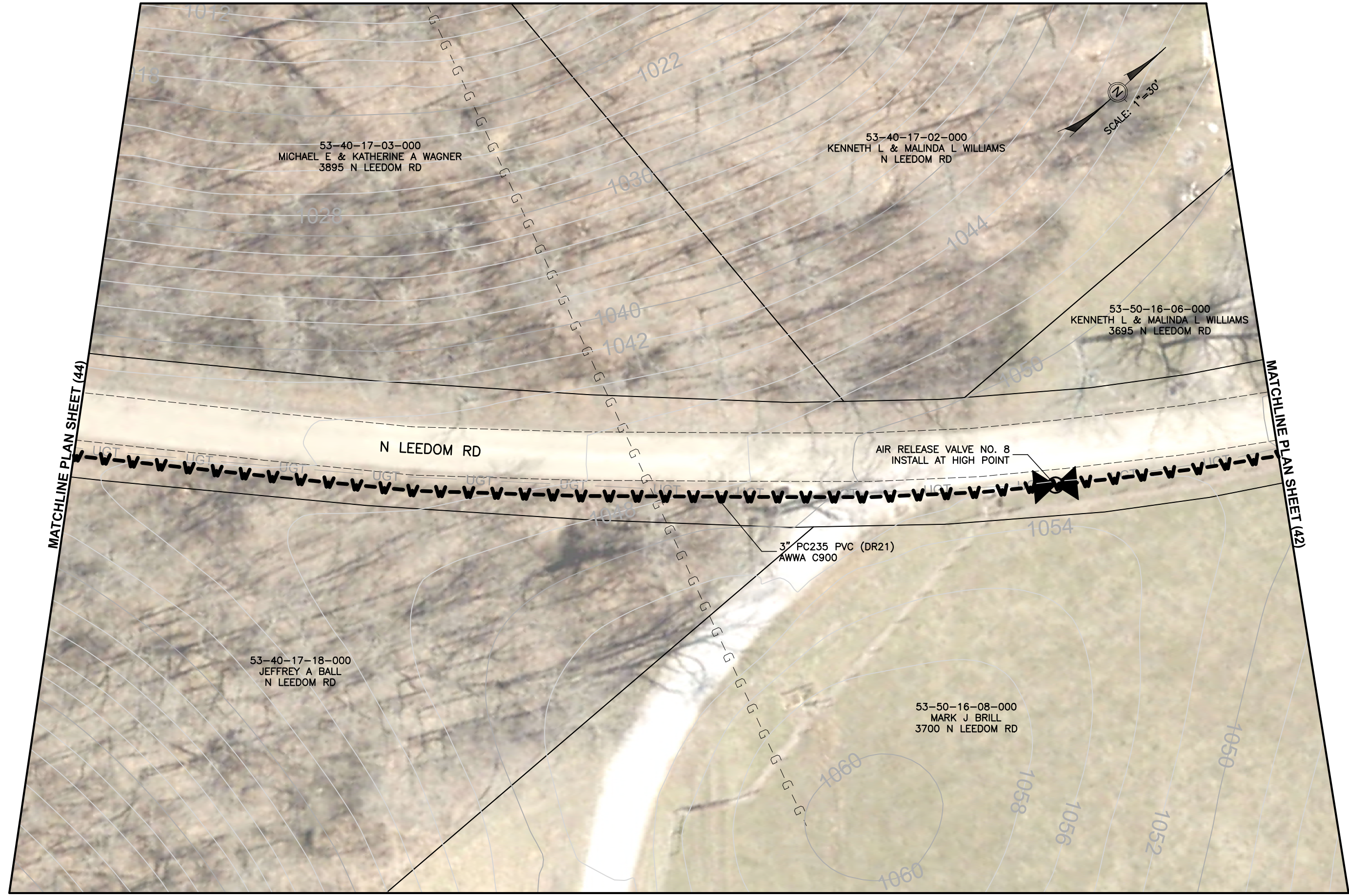
DATE:
03/21/2024

REVISED:

SHEET SIZE:
11" x 17"

SHEET NAME:
PLAN SHEET (42)

SHEET NUMBER:
50
62



Mark J. Eicher, P.E., P.S.
 109 Graham Street
 Zanesville, Ohio 43701
Waskington
County
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
 PROJECT LOCATION: N LEEDOM ROAD, CHANDLERSVILLE, OH 43727

PLANS APPROVED BY: MJE

PLANS PREPARED BY: GJW

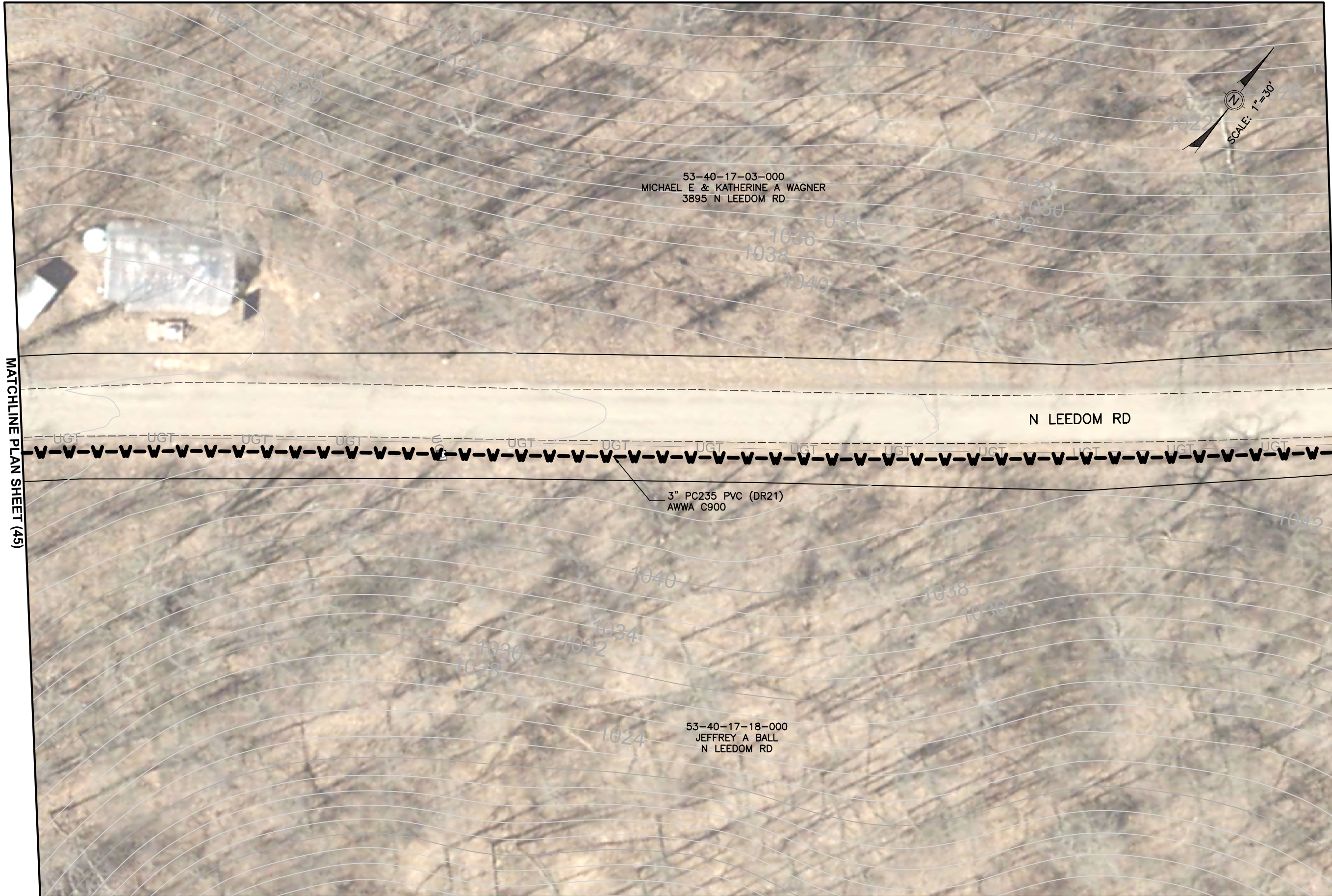
DATE: 03/21/2024

REVISED:

SHEET SIZE: 11" x 17"

SHEET NAME: PLAN SHEET (43)

SHEET NUMBER: 51 / 62



MATCHLINE PLAN SHEET (45)

MATCHLINE PLAN SHEET (43)


 Mark J. Eicher, P.E., P.S.
 109 Graham Street
 Zanesville, Ohio 43701
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
 PROJECT LOCATION: N LEEDOM ROAD, CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

03/21/2024

REVISED:

SHEET SIZE:

11" x 17"

SHEET NAME:

PLAN SHEET (44)

SHEET NUMBER:

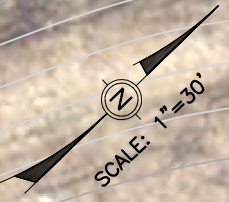
52

62

53-40-17-03-000
MICHAEL E & KATHERINE A WAGNER
3895 N LEEDOM RD

53-40-17-18-000
JEFFREY A BALL
N LEEDOM RD

3" PC235 PVC (DR21)
AWWA C900



MATCHLINE PLAN SHEET (46)

MATCHLINE PLAN SHEET (44)

Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
Waskington
County
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:
PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PROJECT LOCATION: N LEEDOM ROAD, CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:
MJE

PLANS PREPARED BY:
GJW

DATE:
03/21/2024

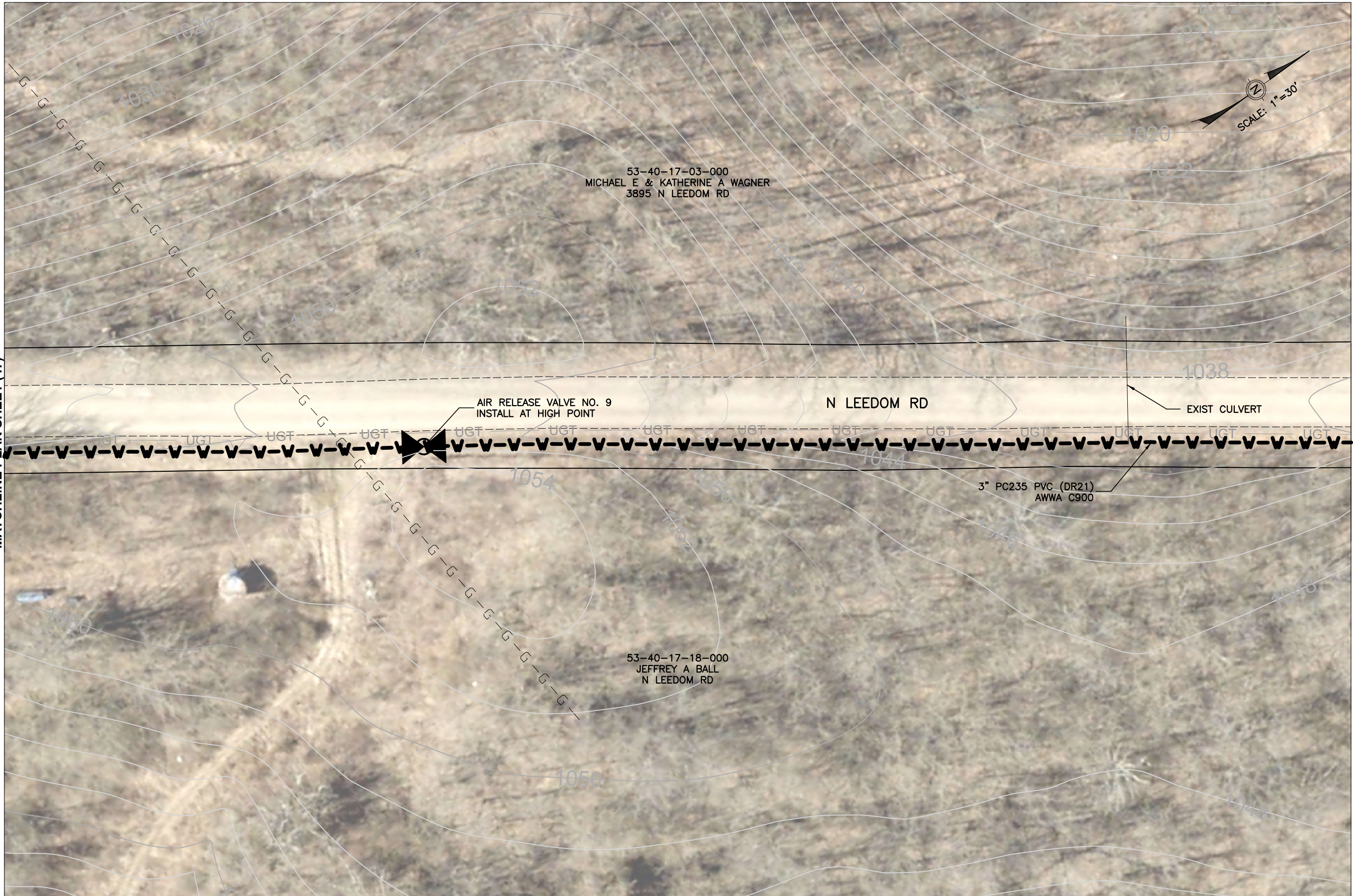
REVISED:

SHEET SIZE:
11" x 17"

SHEET NAME:
PLAN SHEET (45)

SHEET NUMBER:
53
62

MATCHLINE PLAN SHEET (47)



MATCHLINE PLAN SHEET (45)

Mark J. Eicher, P.E., P.S.
 109 Graham Street
 Zanesville, Ohio 43701
Waskington
County
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
 N LEEDOM ROAD
 CHANDLERSVILLE, OH 43727

PROJECT NAME

PROJECT LOCATION

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

03/21/2024

REVISED:

SHEET SIZE:

11" x 17"

SHEET NAME:

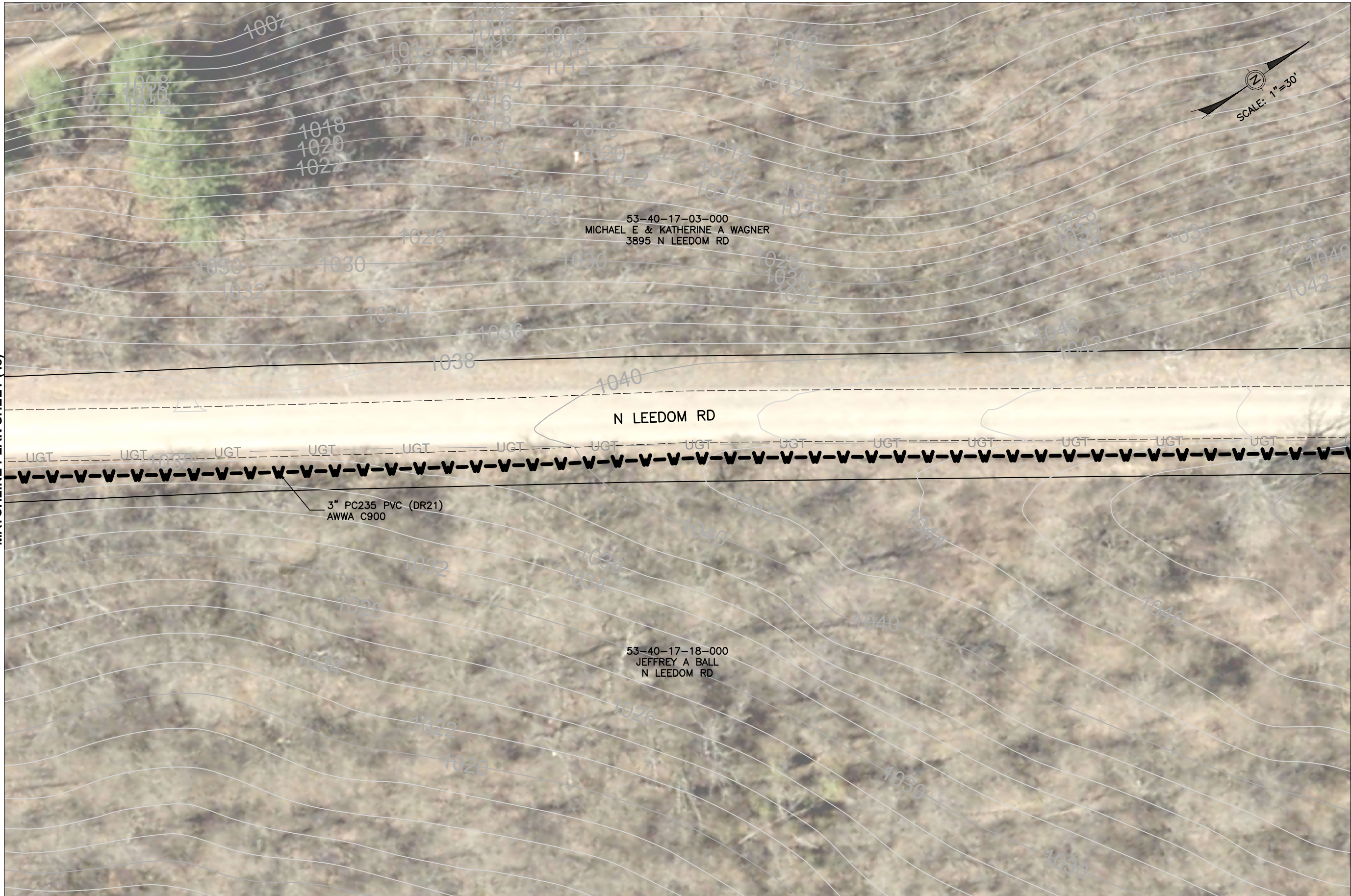
PLAN SHEET (46)

SHEET NUMBER:

54
 62

MATCHLINE PLAN SHEET (48)

MATCHLINE PLAN SHEET (46)



Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
Waskington
County
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PROJECT LOCATION: N LEEDOM ROAD CHANDLERSVILLE, OH 43727

PLANS APPROVED BY: MJE

PLANS PREPARED BY: GJW

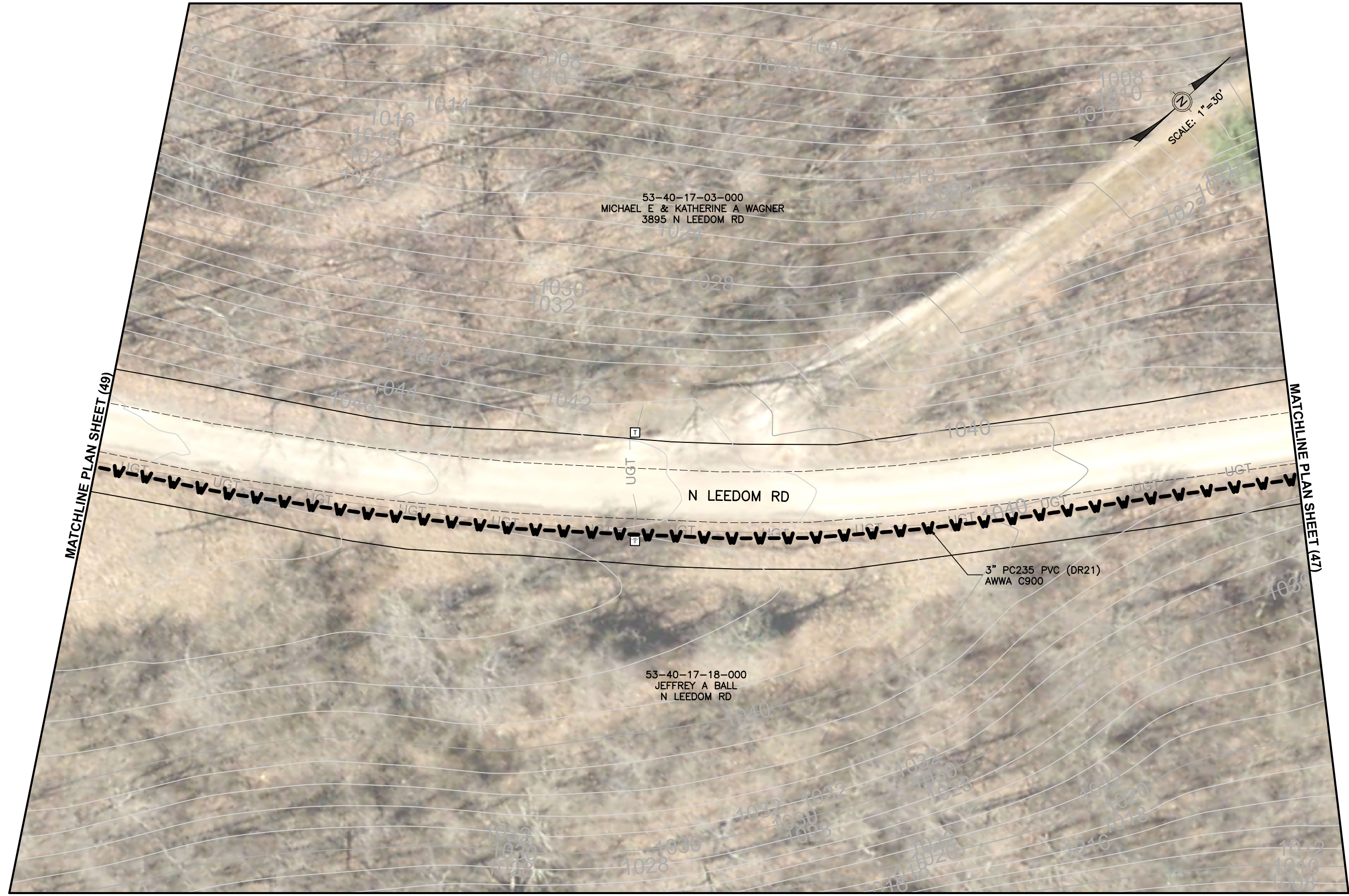
DATE: 03/21/2024

REVISED:

SHEET SIZE: 11" x 17"

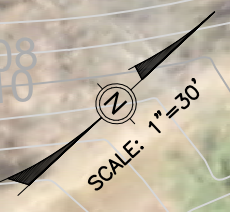
SHEET NAME: PLAN SHEET (47)

SHEET NUMBER:
55
62

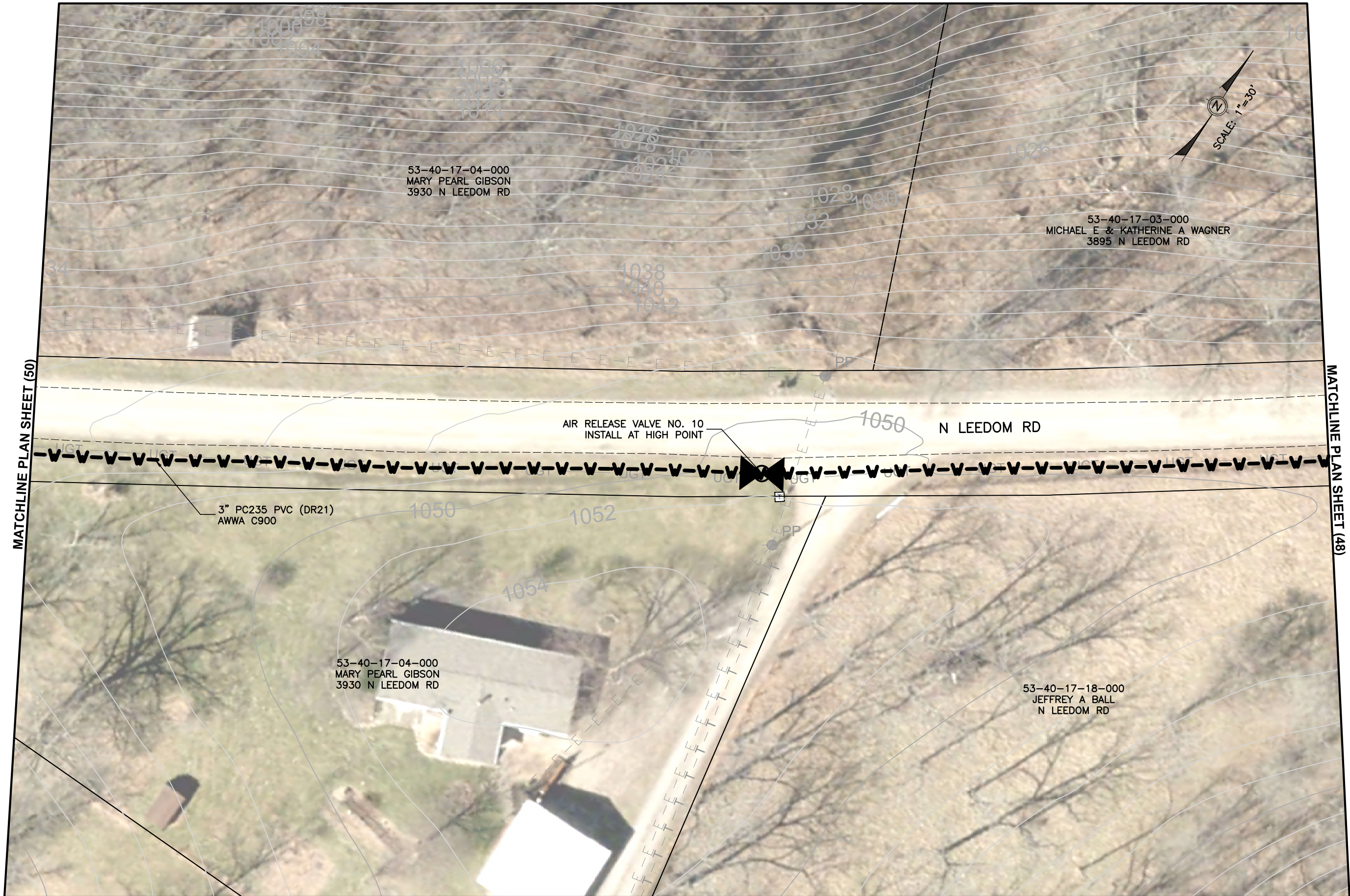


MATCHLINE PLAN SHEET (49)

MATCHLINE PLAN SHEET (47)




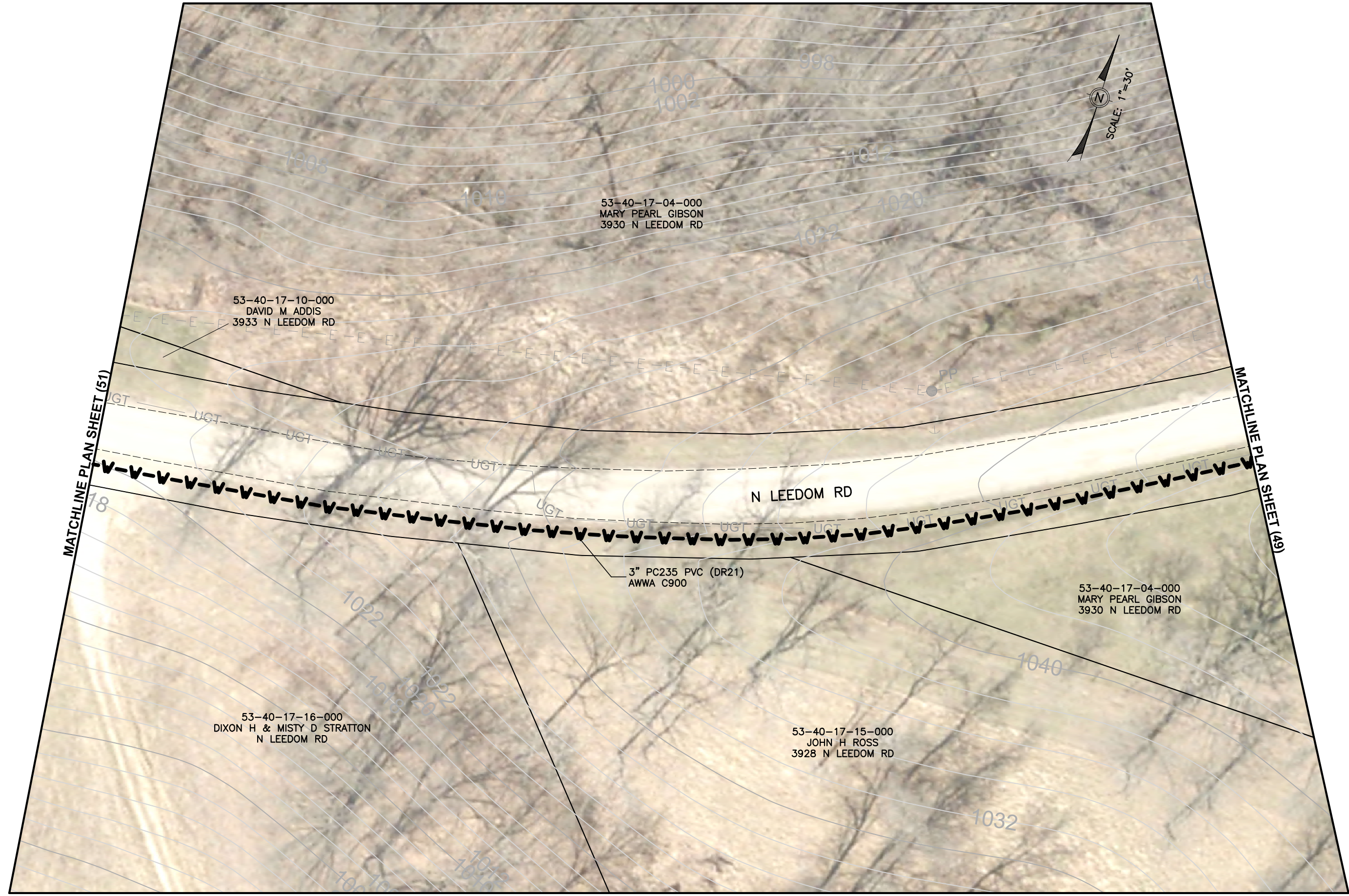
Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 740-454-0155	
PREPARED BY: Muskingum COUNTY ENGINEER'S OFFICE	PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
PROJECT LOCATION: N LEEDOM ROAD CHANDLERSVILLE, OH 43727	PLANS APPROVED BY: MJE
PLANS PREPARED BY: GJW	DATE: 03/21/2024
REVISIONS: (None listed)	SHEET SIZE: 11" x 17"
SHEET NAME: PLAN SHEET (48)	SHEET NUMBER: 56 62



MATCHLINE PLAN SHEET (50)

MATCHLINE PLAN SHEET (48)

	<p>Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 ENGINEER'S OFFICE 740-454-0155</p>
<p>PROJECT NAME CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION</p>	<p>PROJECT LOCATION N LEEDOM ROAD CHANDLERSVILLE, OH 43727</p>
<p>PLANS APPROVED BY: MJE</p>	
<p>PLANS PREPARED BY: GJW</p>	
<p>DATE: 03/21/2024</p>	
<p>REVISED:</p>	
<p>SHEET SIZE: 11" x 17"</p>	
<p>SHEET NAME: PLAN SHEET (49)</p>	
<p>SHEET NUMBER: 57 62</p>	



Mark J. Eicher, P.E., P.S.
Muskingum
County
ENGINEER'S OFFICE
 109 Graham Street
 Zanesville, Ohio 43701
 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
 PROJECT LOCATION: N LEEDOM ROAD, CHANDLERSVILLE, OH 43727

PLANS APPROVED BY:
 MJE

PLANS PREPARED BY:
 GJW

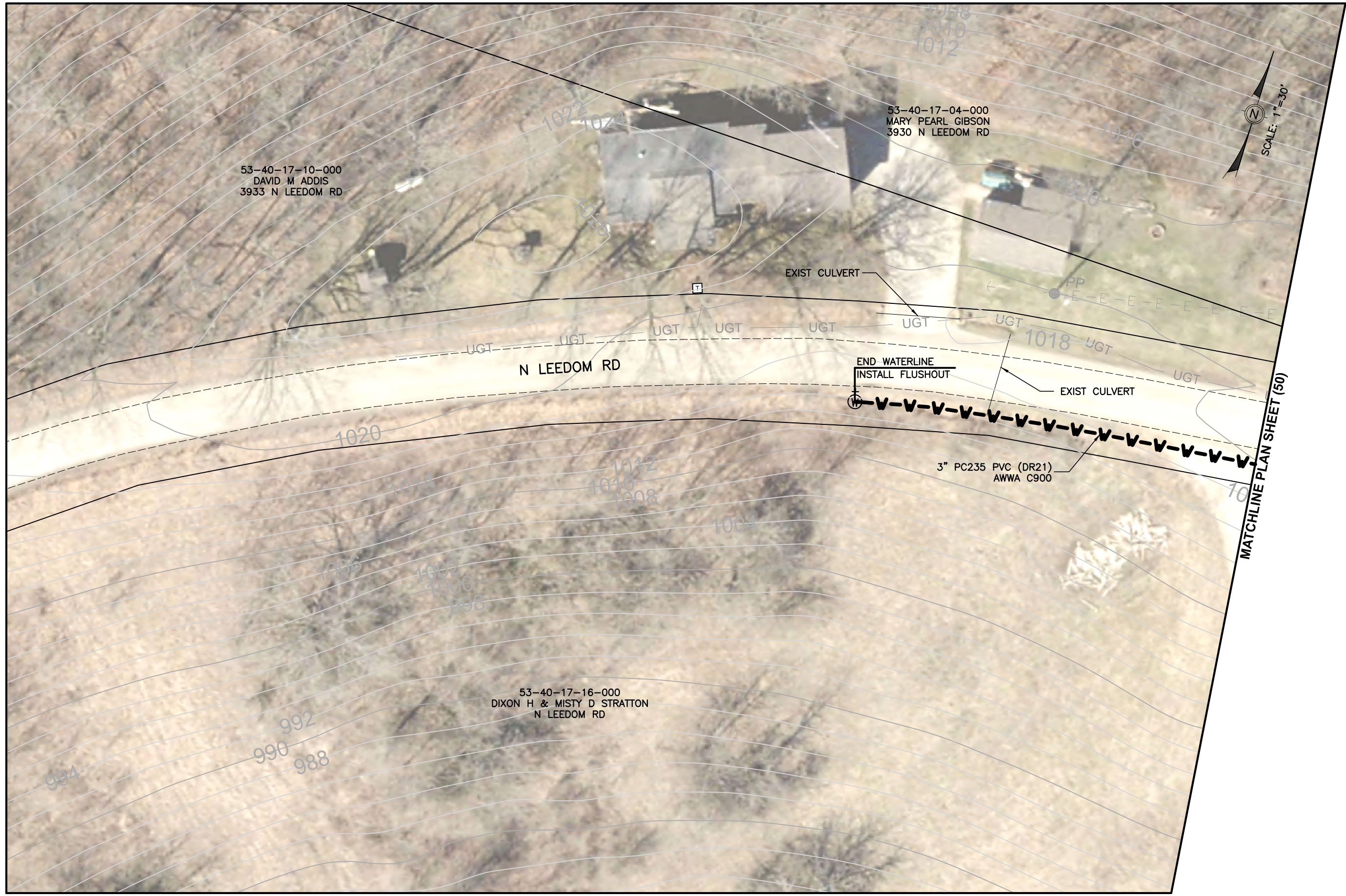
DATE:
 03/21/2024

REVISED:

SHEET SIZE:
 11" x 17"

SHEET NAME:
 PLAN SHEET (50)

SHEET NUMBER:
 58
 62



Mark J. Eicher, P.E., P.S.
Muskingum
County
ENGINEER'S OFFICE
 109 Graham Street
 Zanesville, Ohio 43701
 740-454-0155

PREPARED BY:

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
 PROJECT LOCATION: N LEEDOM ROAD, CHANDLERSVILLE, OH 43727

PLANS APPROVED BY: MJE

PLANS PREPARED BY: GJW

DATE: 03/21/2024

REVISED:

SHEET SIZE: 11" x 17"

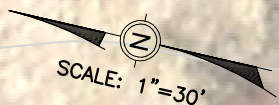
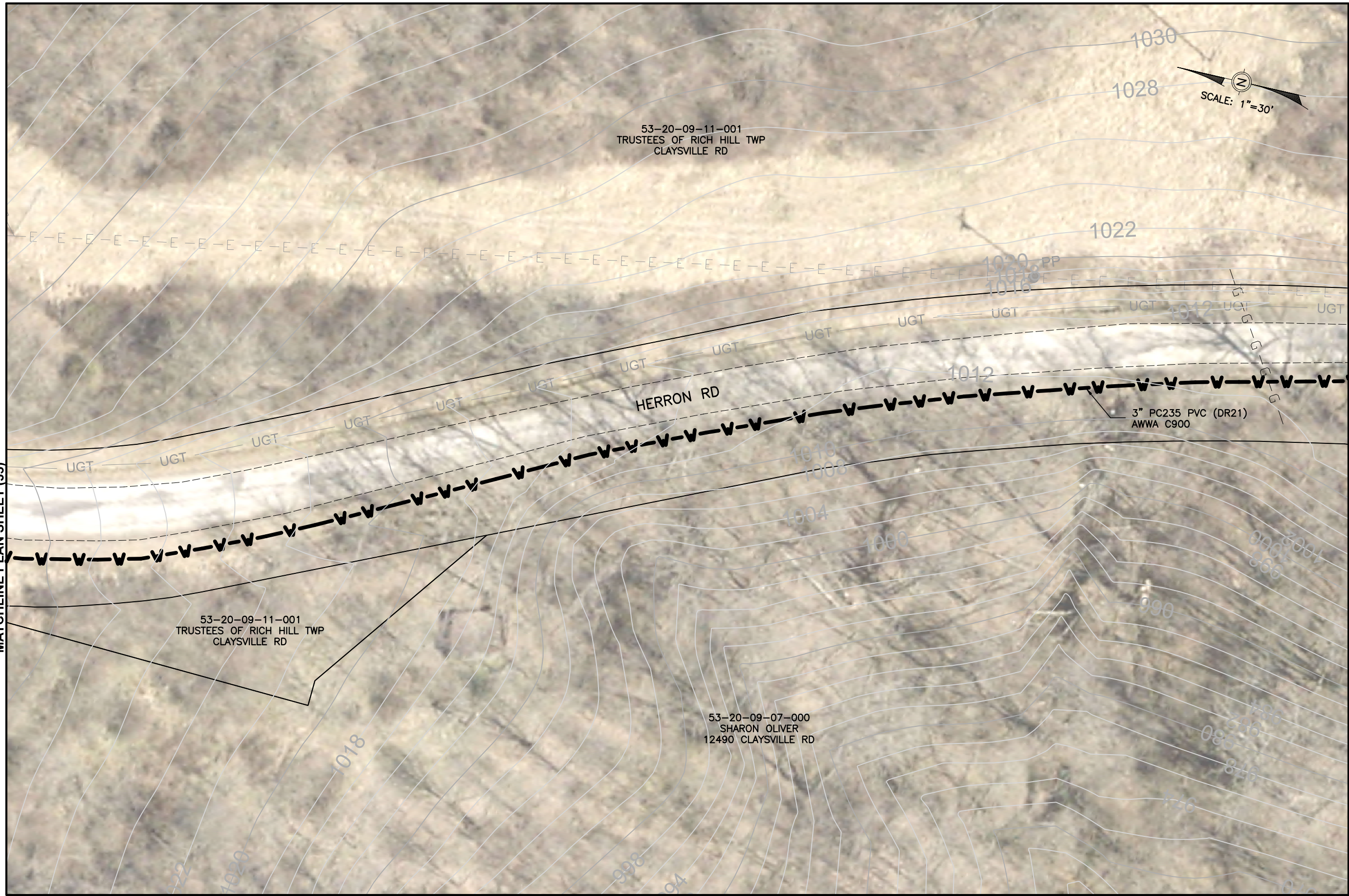
SHEET NAME: PLAN SHEET (51)

SHEET NUMBER: 59 / 62

MATCHLINE PLAN SHEET (50)

MATCHLINE PLAN SHEET (35)

MATCHLINE PLAN SHEET (53)



Mark J. Eicher, P.E., P.S.
 109 Graham Street
 Zanesville, Ohio 43701
Muskingum
COUNTY
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

PROJECT NAME:

CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION

PROJECT LOCATION:

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

03/21/2024

REVISED:

SHEET SIZE:

11" x 17"

SHEET NAME:

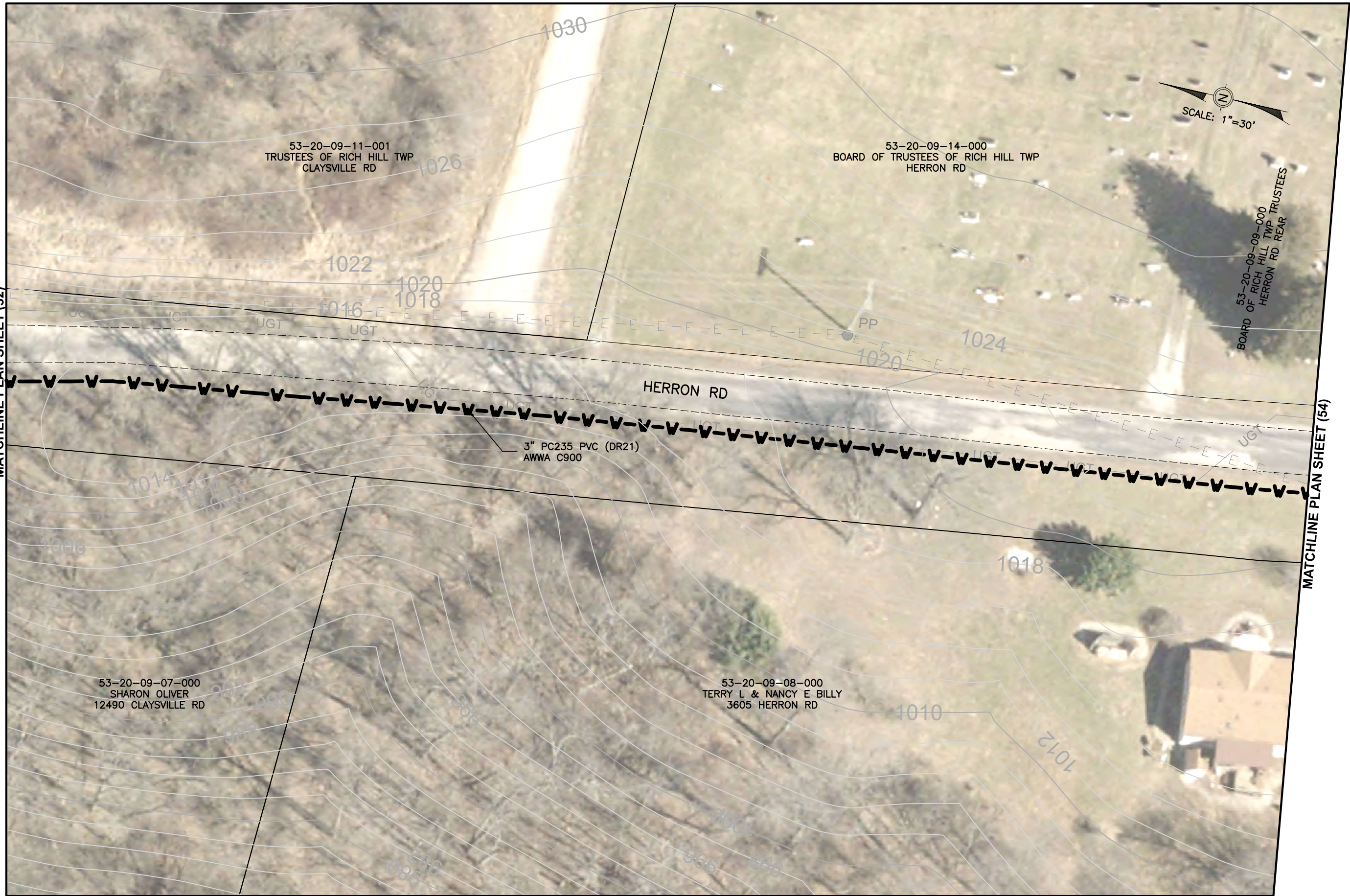
PLAN SHEET (52)

SHEET NUMBER:

60
62

MATCHLINE PLAN SHEET (52)

MATCHLINE PLAN SHEET (54)



53-20-09-11-001
TRUSTEES OF RICH HILL TWP
CLAYSVILLE RD

53-20-09-14-000
BOARD OF TRUSTEES OF RICH HILL TWP
HERRON RD

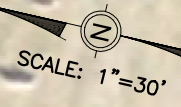
53-20-09-09-000
BOARD OF RICH HILL TWP TRUSTEES
HERRON RD REAR

53-20-09-07-000
SHARON OLIVER
12490 CLAYSVILLE RD

53-20-09-08-000
TERRY L & NANCY E BILLY
3605 HERRON RD

3" PC235 PVC (DR21)
AWWA C900

HERRON RD



SCALE: 1"=30'

Mark J. Eicher, P.E., P.S.

 Muskingum
 COUNTY
 ENGINEER'S OFFICE

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
 PROJECT LOCATION: HERRON ROAD CHANDLERSVILLE, OH 43727

PLANS APPROVED BY: MJE

PLANS PREPARED BY: GJW

DATE: 03/21/2024

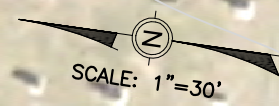
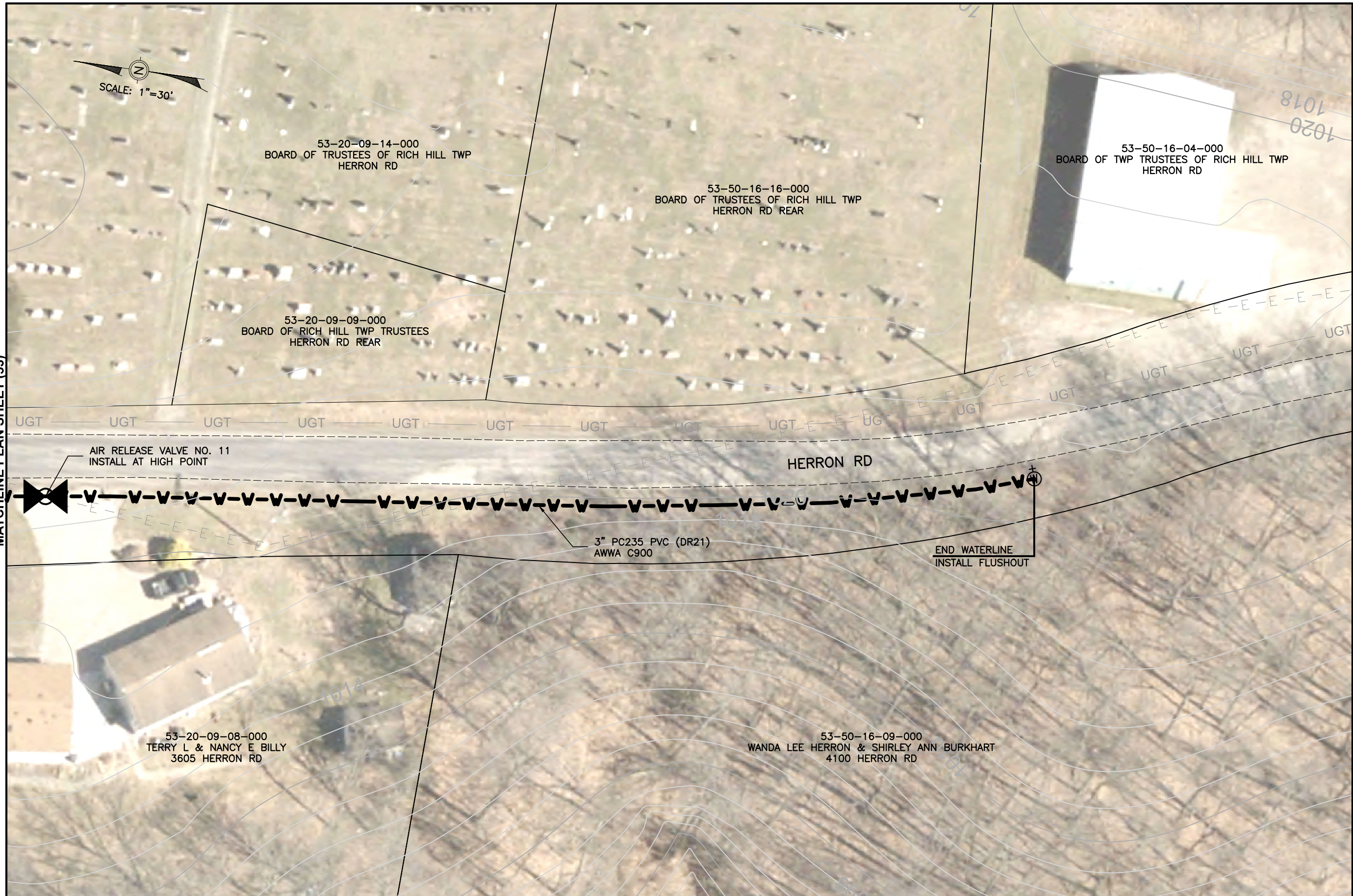
REVISED:

SHEET SIZE: 11" x 17"

SHEET NAME: PLAN SHEET (53)

SHEET NUMBER: 61 / 62

MATCHLINE PLAN SHEET (53)



Mark J. Eicher, P.E., P.S.
 109 Graham Street
 Zanesville, Ohio 43701
Waskington
County
ENGINEER'S OFFICE 740-454-0155

PROJECT NAME: CLAYSVILLE ROAD (SR 313) WATERLINE EXTENSION
 PROJECT LOCATION: HERRON ROAD CHANDLERSVILLE, OH 43727

PLANS APPROVED BY: MJE
 PLANS PREPARED BY: GJW
 DATE: 03/21/2024
 REVISED:

SHEET SIZE: 11" x 17"
 SHEET NAME: PLAN SHEET (54)
 SHEET NUMBER: 62