Columbia Gas®
A NiSource Company

INSTALLATION ORDER NUMBER 23-0083895-00
ABANDONMENT ORDER NUMBER 23-0083897-00
PROJECT ID 21-78793
AGLER ROAD NCHP PIPELINE PROJECT

JOB TYPE: MAINS-LEAKAGE ELIMINATION (557/558)

PROJECT INFORMATION

DESIGN ENGINEER	ANTHONY D'EGIDIO
FIELD ENGINEER/TECHNICIAN	KAITLIN DYGERT
CONSTRUCTION FFL:	MATTHEW ALIFF
PERMITS	CITY OF COLUMBUS PERMIT
	CITY OF GAHANNA PERMIT
	FRANKLIN COUNTY PERMIT
	ENVIRONMENTAL PERMITS
	DOT PERMITS
	OPSB PERMIT
TCC/LOA	0823/COLUMBUS NORTHEAST
COUNTY	FRANKLIN COUNTY, OH
TASK DISTRICT/TOWNSHIP ID	0250150
	0250530
	0250040
	0250010
	0250520
MAP/GRID NUMBER	7336428A
	7336428B
	7336428C
	7336428D
	7332428A
	7332428B
24 HR. EMERGENCY LINE	1-800-344-4077

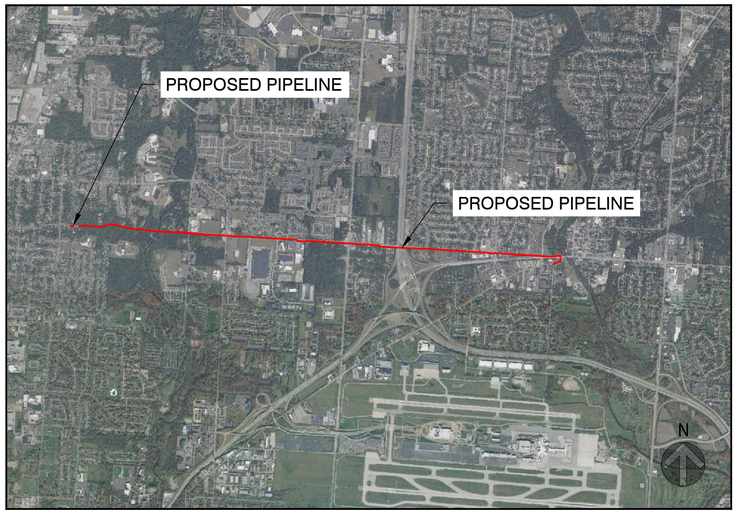
SYSTEM DATA			
	MINIMUM (PSIG / MCFH)	MAXIMUM (PSIG / MCFH)	MAOP (PSIG)
DESIGN PRESSURE	190 PSIG	720 PSIG	190 PSIG
DESIGN FLOW	N/A MCFH	N/A MCFH	

DESIGN DATA		
DESIGN FACTOR:	0.4	REF CFR 192.111
DESIGN PRESSURE:	720 PSIG	≥ INLET MAOP
MINIMUM ALLOWABLE TEST PRESSURE*:	1080 PSIG	1.5x DESIGN PRESSURE
MAXIMUM ALLOWABLE TEST PRESSURE*:	1280 PSIG	
MIN. TEST DURATION:	8 HRS	PER G.S. 1500 SERIES
PERCENT SMYS AT DESIGN PRESSURE:	44.31%	% SMYS BASED ON: 24", 0.375" W/T, X-52
PERCENT SMYS AT MAOP:	11.69%	% SMYS BASED ON: 24", 0.375" W/T, X-52
PERCENT SMYS AT MIN. TEST PRESSURE:	66.46%	% SMYS BASED ON: 24", 0.375" W/T, X-52
PERCENT SMYS AT MAX TEST PRESSURE:	78.77%	% SMYS BASED ON: 24", 0375" W/T, X-52
MAOP LIMITING ELEMENT:	PRESSURE TEST	
TEST MEDIUM	WATER	
PERCENT X-RAY	100%	

* TEST PRESSURES IN TABLE DEFINE THE OVERALL PRESSURE LIMITS DURING TESTING. SEE HYDROTEST SHEETS FOR GAUGE LOCATION PRESSURES.

VICINITY MAP

SCALE: 1" = 3000'



PROJECT DESCRIPTION

INSTALLATION OF 3.8 MILES OF 24-INCH HIGH PRESSURE STEEL PIPELINE

SHEET INDEX

DWG.	DESCRIPTION
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GN-2001 - GN-2002	GENERAL NOTES
O-2001	OVERVIEW SHEET
L-2001 - L-2021	ALIGNMENT SHEETS

NiSource

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401 N Front St, Suite 380, Columbus, OH 43215
(380) 799-8503

PROPOSED

REVISIONS		
A	12/23/24	ISSUED FOR PERMIT
REV. #	DATE	DESCRIPTION

INTERNAL ENG.	AD	12/23/24	614-981-0661
DESIGNED BY	JMJ	12/23/24	855-266-7671
CHECKED BY	RBW	12/23/24	855-266-7671
AS-BUILT BY	TBD	TBD	TBD
	NAME	DATE	PHONE #

SITE NAME:
INST# 23-0083895-00
ABAN# 23-0083897-00
PROJECT ID# 21-78793
AGLER ROAD NCHP PIPELINE PROJECT
COLUMBUS/GAHANNA, FRANKLIN COUNTY, OH

DRAWING TITLE:
TITLE SHEET

DRAWING NO:
T-2001

2/9/2021 - 22 x 34

SHEET INDEX		
DWG.	DESCRIPTION	REV
	GENERAL	
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L-2006	STA 40+00 TO STA 50+00	A
L-2007	STA 50+00 TO STA 60+00	A
L-2008	STA 60+00 TO STA 70+00	A
L-2009	STA 70+00 TO STA 80+00	A
L-2010	STA 80+00 TO STA 90+00	A
L-2011	STA 90+00 TO STA 100+00	A
L-2012	STA 100+00 TO STA 110+00	A
L-2013	STA 110+00 TO STA 120+00	A
L-2014	STA 120+00 TO STA 130+00	A
L-2015	STA 130+00 TO STA 140+00	A
L-2016	STA 140+00 TO STA 150+00	A
L-2017	STA 150+00 TO STA 160+00	A
L-2018	STA 160+00 TO STA 170+00	A
L-2019	STA 170+00 TO STA 180+00	A
L-2020	STA 180+00 TO STA 190+00	A
L-2021	STA 190+00 TO STA 198+02	A

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DRAWING TITLE:

INDEX SHEET

DRAWING NO:

T-2002

General Notes

1. Deviation from NiSource CAD Standards is at discretion of reviewing Professional Engineer.
2. Refer to project documentation for the associated Environmental Compliance Plan (ECP) and any project-specific documentation.
3. The proposed gas facility locations shown are approximate and are subject to change.
4. Property lines, structures, street lines, etc. were compiled using the NiSource GIS and are to be considered approximate and not to scale.
5. Existing utilities, where shown, have been compiled from above ground evidence only and are to be considered approximate. NiSource does not guarantee the location of the underground utilities shown or that all existing utilities and/or subsurface structures are shown.
6. Individual service line designs for services smaller than 3 inches in diameter are not provided by Engineering. These services shall be installed using the standard design criteria and material specified in the NiSource standards. Services 3 inches and larger in diameter shall be designed, reviewed, and represented on a separate plan set as necessary.
7. This project will adhere to all applicable federal, state or local permitting requirements for abandonment and installation of natural gas pipelines. All Federal, State, and Local codes and standards will be adhered including, but not limited to, the following:
   Code of Federal Regulations (CFR)
   49 CFR 192 Pipeline Safety Regulations
   29 CFR 1910 Occupational Safety and Health Administration (OSHA)
   American Society of Mechanical Engineers (ASME)
   ASME B31.8 Gas Transmission and Distribution Piping Systems
8. All NiSource design codes and standards will be adhered to as applicable.
9. Prior to beginning any excavation on site, the person responsible for earth moving shall notify utility owners of their intent to excavate and to have the exact locations of the utility lines marked by contacting the one call center in their state subject to any applicable state advance notification requirements.
10. Proposed or completed gas facility installation location references may be indicated by a combination of the following codes:

F - FRONT	CLP - CENTER OF PAVEMENT	D - DRIVEWAY EDGE
BK - BACK	CLR - CENTER OF RIGHT-OF-WAY	EP - EDGE OF PAVEMENT
L - LEFT	CEL - CENTER OF EASTBOUND LANE	ES - EDGE OF SIDEWALK
R - RIGHT	CWL - CENTER OF WESTBOUND LANE	PL - PROPERTY LINE
B - BUILDING EDGE	CNL - CENTER OF NORTHBOUND LANE	
CU - CURB	CSL - CENTER OF SOUTHBOUND LANE	

Drawing Revision Conditions:

1. If, during the course of project construction, anticipated changes to project plans result in complex project criteria being met as defined by NiSource Gas Standard 2810.050 "Stakeholder Reviews of Design Capital Projects," the changes shall not be implemented until revised project documentation is reviewed by the Project Engineer and approved by a Professional Engineer as necessary.
2. Any additional gas pressure containing material not listed on the project Bill of Materials must be reviewed by the Project Engineer and reviewing Professional Engineer prior to use.
3. Any significant changes to proposed primary pipeline installation methods and location must be reviewed by the Project Engineer and reviewing Professional Engineer.
4. Any significant changes to proposed project scope must be reviewed by the Project Engineer and reviewing Professional Engineer. Significant changes to project scope may include changes to proposed design pressure, change of proposed pipe size and material affecting system hydraulics, and the addition or removal of significant amounts of pipeline installation or abandonment.
5. Any significant changes to proposed tie-ins must be reviewed by the Project Engineer and reviewing Professional Engineer. Significant changes may include the following: addition or removal of a tie-in, change in proposed tie-in material, change in proposed tie-in method, and change in tie-in location if system hydraulics may be affected.
6. This project involves the installation of facilities in permitted locations within public right-of-way. If, during the course of installation, it is found that the installation must deviate from the permitted location, construction must cease until the deviation is reviewed by the Project Engineer and reviewing Professional Engineer.

Environmental Notes

1. All NiSource construction activities must be completed in accordance with the Environmental Construction Standards (HSE 4440.020) and the project Environmental Compliance Plan (ECP). Said ECP shall be provided by others.
2. The project ECP and any site-specific erosion control drawings, must be provided to the contractor with the project drawings for review and planning prior to the start of construction activities. This includes any tree clearing activities required prior to the start of facility construction activities.
3. The project ECP and any associated drawings must be reviewed with construction, the contractor, and an environmental representative prior to the start of construction activities.
4. These documents must remain on site for the duration of the construction project, and any project scope changes, with the potential to impact the requirements of the ECP or environmental drawings, must be coordinated with an environmental representative prior to completion.

DRAWING LEGEND

Gas Main Symbology

———	Existing Gas Main
— — —	Existing Gas Main to Be Abandoned
———	Proposed Gas Main
———	Proposed Gas Main Uprate

Gas Main Material/Pressure Label References

MATERIAL CODES	
CS*	Coated Steel Gas Main
WT*	Weld Treated Gas Main
CI*	Cast Iron Gas Main
BS*	Bare Steel Gas Main
WI*	Wrought Iron Gas Main
PH*	High Density Polyethylene Gas Main
PM*	Medium Density Polyethylene Gas Main
PRESSURE CODES	
*LP	Low Pressure
*IP	Intermediate Pressure
*MP	Medium Pressure
*HP	High Pressure
MISCELLANEOUS CODES	
*-SER	Service
*-R	Riser
(TC)	Transmission Class

Gas Main Installation Method Label References

AT	Attached
BH	Bridge Hanger
BLGH	Building Hanger
DB	Directional Bore
IS	Inserted
OC	Open Cut
PB	Pneumatic Bore
PL	Plowed
RT	Roof Top
(E)	Existing
(P)	Proposed

W1	Weld Location
T1	Gas Main Tie-in Location
A1	Gas Main Abandonment Location

Gas Facility Symbology

⊗ x"GV	Gas Valve
● x"PV	Critical Gas Valve (Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)
○ x"HVTT	High Volume Tapping Tee
○ x"SST	Pressure Control Fitting - ShortStopp Tee
○ x"SPH	Pressure Control Fitting - Spherical Tee
○ x"MF-BO	Pressure Control Fitting - Mueller Bottom-out
○ x"MF-SO	Pressure Control Fitting - Mueller Side-out
○ x"MF-FT	Pressure Control Fitting - Mueller Flange Tee
⊠ x"SS	Pressure Control Fitting - ShortStopp
⊠ x"MF	Pressure Control Fitting - Mueller Stopper
⊠ x"x x" POLYTAP	Polytapp Side Saddle Fitting
I	Transition
–	End Cap
	Riser
◄	Reducer
EM	Electronic Marker
TWS	Flush-mounted Tracer Wire Station
	Post Pipeline Marker with Tracer Wire
MM	Gas Main Marker without Tracer Wire
Ⓦ	Test Well
Ⓡ	Regulator Station
R	Single Customer Regulator
Ⓜ	Meter
MR	Meter with Regulator
	Test Point (Station)
Ⓣ	Gas Service Tie-over
Ⓡ	Gas Service Replacement
MMO	Meter Move Out

Swing Tie Symbology

Ⓣ	Telephone Manhole
Ⓓ	Drain Manhole
Ⓔ	Electric Manhole
	Catch Basis
Ⓢ	Sewer Manhole
	Fire Hydrant
	Utility Pole
•	Property Marker
T	Telephone Pedestal
C	Television Pedestal
Ⓤ	Unknown Manhole
WB	Water Box
WG	Water Gate
E	Electric Pedestal
IP	Iron Pin
	Light Pole

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COLUMBUS / GAHANNA, FRANKLIN COUNTY, OH

DRAWING TITLE:
NISOURCE
GENERAL NOTES

DRAWING NO:
GN-2001

2/9/2021 - 22 x 34

GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL CITY, COUNTY, STATE, AND FEDERAL GUIDELINES/REGULATIONS APPLICABLE TO CONSTRUCTION OF THIS SITE.
2. SITE CONTRACTOR SHALL VERIFY ALL COORDINATES AND DIMENSIONAL INFORMATION PRIOR TO CONSTRUCTION. BRING ANY DISCREPANCIES WITH LAYOUT TO ATTENTION OF OWNER PRIOR TO STARTING CONSTRUCTION.
3. UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE DRAWINGS, CONTRACTOR SHALL MAINTAIN A MINIMUM 5'-0" OFFSET FROM PROPERTY LINES AND FROM EDGE OF PAVEMENT (EXCLUDING ROAD AND PROPERTY LINE CROSSINGS). ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE CURRENT SPECIFICATIONS AND STANDARDS OF OWNER.
4. ALL WORK SHALL BE IN COMPLIANCE WITH OSHA, TITLE 29 OF THE CODE OF FEDERAL REGULATIONS, AND ALL OTHER FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.
5. CONTRACTOR SHALL PERFORM A SITE VISIT AND VERIFY ALL COORDINATES AND DIMENSIONAL INFORMATION PRIOR TO CONSTRUCTION. IF DISCREPANCIES ARE OBSERVED, THE ENGINEER SHALL BE NOTIFIED.
6. CONTRACTOR IS RESPONSIBLE FOR KNOWING LOCATION OF ALL ENVIRONMENTALLY SENSITIVE AREA RESTRICTIONS PERTAINING TO THIS PROJECT.
7. CONTRACTOR TO VERIFY WETLANDS HAVE BEEN PERMITTED AND MITIGATED PRIOR TO DISTURBING ANY WETLAND AREAS.
8. CONTRACTOR SHALL REMAIN WITHIN THE CONSTRUCTION WORKING LIMITS. ACCESS TO AREAS OUTSIDE WORKING LIMITS MUST BE COORDINATED WITH THE OWNER OR OBTAINED DIRECTLY BY CONTRACTOR.
9. CONTRACTOR SHALL USE ALL NECESSARY MEANS TO ENSURE SAFE AND PROPER TRAFFIC FLOW DURING CONSTRUCTION, IN ACCORDANCE WITH OWNER AND LOCAL DOT STANDARDS.
10. CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION METHODS AND TECHNIQUES, SEQUENCES, TIME OF PERFORMANCE, AND ALL SAFETY PRECAUTIONS.
11. CONTRACTOR TO LESSEN THE LIMITS OF DISTURBANCE AS MUCH AS PRACTICAL DURING CONSTRUCTION TO MINIMIZE AMOUNT OF RE-PAVING NECESSARY.
12. THE PIPELINE HAS GENERALLY BEEN DESIGNED WITH A MINIMUM COVER OF 6'-0" TO ACCOUNT FOR DEPTH OF UNKNOWN SERVICE LINES.
13. MINIMUM ALLOWABLE DEPTH OF COVER IS 4'-0".
14. BENDS UNDER 4° ARE NOT SHOWN.
15. PIPE FIELD BENDS ARE LIMITED TO 20° UNLESS APPROVED BY ENGINEERING.

DESIGN BASIS

1. EXISTING CONDITIONS WERE TAKEN FROM:
   A TOPOGRAPHIC SURVEY PERFORMED BY CAMPOS EPC

   AN ENVIRONMENTAL SURVEY PERFORMED BY COLLIERS
2. GEOTECHNICAL ENGINEERING REPORTS PREPARED BY DLZ APPROXIMATE BOREHOLE LOCATIONS HAVE BEEN SHOWN ON THE PLANS.
3. GEOTECHNICAL DATA IS PROVIDED FOR CONTRACTOR REFERENCE. CONTRACTOR SHALL INTERPRET THE GEOTECHNICAL DATA BETWEEN EXPLORATION POINTS. CONTRACTOR SHALL OBTAIN ADDITIONAL DATA DEEMED NECESSARY FOR BID PREPARATION OR CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.
4. ALL DIMENSIONS ARE TAKEN FROM/TO EDGE OF PAVEMENT, CENTERLINE OF UTILITY OR EDGE OF EASEMENT UNLESS OTHERWISE NOTED.
5. PROPOSED PIPE LOCATIONS SHOWN ARE AS FIELD IDENTIFIED BY OWNER AND ARE BASED ON EVALUATION OF ABOVE GROUND FEATURES. THE FINAL ALIGNMENT AND LOCATION OF PIPE SHALL BE DETERMINED BY OWNER AND ITS DESIGNATED INSPECTOR(S).
6. STATIONING IS IN FEET BY HORIZONTAL MEASUREMENT AND REFERS TO CENTERLINE OF PROPOSED BORE PATH.
7. DRILL PATH ELEVATIONS REFER TO THE CENTERLINE OF THE PILOT HOLE AND NOT TO THE TOP OF INSTALLED PIPE.
8. DRILL PATH ENTRY AND EXIT LABELS ARE FOR REFERENCE ONLY AND DO NOT SPECIFY WHICH SIDE OF THE BORE PATH A RIG WILL BE SET UP ON. CONTRACTOR MAY ELECT TO DRILL FROM EITHER OR BOTH SIDES BASED ON THEIR MEANS AND METHODS.

SCOPE

1. CONTRACTOR SHALL INSTALL THE PIPE STRING USING THE CONSTRUCTION METHODS SET FORTH IN THE DRAWINGS. ANY DEVIATIONS MUST BE COORDINATED WITH NISOURCE AND THE CITY OF COLUMBUS.
2. CONTRACTOR SHALL PROVIDE AND MOBILIZE ALL NECESSARY EQUIPMENT, INSTRUMENTATION, AND SUPPLIES TO INSTALL THE WELDED PIPE STRING USING HDD METHOD OF CONSTRUCTION.
3. CONTRACTOR SHALL ACTIVELY MONITOR THE DRILLED ALIGNMENT FOR IMPACTS THAT COULD OCCUR AS A RESULT OF HDD OPERATIONS (IE. SETTLEMENT, HEAVE, AND DRILLING FLUID FLOW). CONTRACTOR'S MONITORING PROCEDURES AND ASSOCIATED EMERGENCY RESPONSE PLANS SHALL BE APPROPRIATE TO ENSURE THAT PUBLIC SAFETY IS NOT COMPROMISED.

EXISTING UTILITIES

1. THE CONTRACTOR SHALL NOTIFY THE PUBLIC UTILITY LOCATING SYSTEM (811) AND OBTAIN A CLEARED, APPROVED TICKET PRIOR TO BEGINNING WORK.
2. LOCATIONS OF EXISTING UNDERGROUND UTILITIES AND SITE FEATURES ARE APPROXIMATE. ACTUAL EXISTING CONDITIONS MAY VARY FROM WHAT IS REPRESENTED IN THESE DRAWINGS AND SHALL BE VERIFIED IN THE FIELD BY CONSTRUCTION PERSONNEL PRIOR TO BEGINNING WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND POSITIVELY IDENTIFYING THE UTILITIES WITHIN THE WORKSPACE. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES WITHIN THE CONSTRUCTION AREA. CONTRACTOR IS RESPONSIBLE FOR ALL LOSSES AND REPAIRS OCCASIONED BY DAMAGE TO UNDERGROUND FACILITIES / UTILITIES RESULTING FROM THEIR WORK.
4. IF EXISTING UTILITIES ARE IDENTIFIED IN THE FIELD AND DEEMED TO BE IN CONFLICT WITH THE PROPOSED BORE PROFILE, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.
5. THE PIPELINE SHALL BE INSTALLED SO AS TO PROVIDE A MINIMUM OF TWENTY FOUR (24) INCHES OF CLEARANCE TO ALL OTHER UNDERGROUND UTILITIES AND STRUCTURES. WHERE THIS IS NOT POSSIBLE, APPROPRIATE PROTECTION SHALL BE INSTALLED, WITH THE APPROVAL OF NISOURCE REPRESENTATIVE OR INSPECTOR.
6. WHERE NOTED ON PLANS, REFER INV-XXX TO POTHOLE EXHIBITS FOR TYPE, DEPTH, SIZE, ETC.
7. CONTRACTOR TO CONTACT POWER COMPANIES WHEN POWER POLES ARE WITHIN 5' OF A TRENCH OR PIT.

CONTRACTOR NOTES

CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING NOTIFICATIONS:

1. UTILITY NOTIFICATION CENTER OF OHIO (OHIO811), 1-800-362-2764. CALL TWO (2) BUSINESS DAYS PRIOR (NOT INCLUDING THE DAY OF THE CALL). OHIO811 ADVISES THE CONTRACTOR/EXCAVATOR TO SUBMIT THEIR DIG NOTIFICATION REQUEST TO OHIO811, RECEIVE THEIR REFERENCE NUMBER AND WAIT THE REQUIRED 48 HOURS (EXCLUDING WEEKENDS AND LEGAL HOLIDAYS) BEFORE EXCAVATION TO BE COMPLIANT WITH OHIO LAW.
   a. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DOCUMENTS.
   b. PROVIDING NOTIFICATION AND RECEIVING MARKINGS OF UNDERGROUND MEMBER UTILITIES IN NO WAY CONSTITUTES PERMISSION TO PERFORM CONSTRUCTION.
2. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
   THE CLIENT'S UTILITY CUSTOMERS SHALL BE NOTIFIED OF POTENTIAL SERVICE OUTAGES. CONSTRUCTION WILL COORDINATE WITH THE CLIENT FOR DETERMINATION OF MINIMUM TIME REQUIREMENT. CLIENT SHALL BE NOTIFIED TWO BUSINESS DAYS (48 HOURS) IN ADVANCE TO SCHEDULE AN OUTAGE.

   THE CLIENT MUST BE NOTIFIED 24 HOURS IN ADVANCE FOR OBSERVATIONS OF WORK IN PROGRESS. OBSERVATION AND ONSITE VISITS ARE NOT TO BE CONSTRUED AS A GUARANTEE OR APPROVAL BY CLIENT STAFF OF CONTRACTOR'S WORK OR CONTRACTUAL COMMITMENT. IF WORK IS SUSPENDED FOR LONGER THAN 5 DAYS AFTER INITIAL START-UP, CONTRACTOR SHALL NOTIFY THE CLIENT CONSTRUCTION INSPECTION SUPERVISOR ONE (1) BUSINESS DAYS (24 HOURS) PRIOR TO RESTART OF CONSTRUCTION.
3. CONTRACTOR TO PROVIDE SHORING PER REQUIREMENTS OF CITY OF COLUMBUS PERMIT PACKAGE. ALTERNATIVE RECOMMENDATIONS ARE PERMITTED, BUT WILL REQUIRE APPROVAL BY NISOURCE AND THE CITY OF COLUMBUS PRIOR TO IMPLEMENTING.

SURVEY NOTES

1. SURVEY DATUM IS OHIO STATE PLANES, SOUTH ZONE, US SURVEY FEET.
2. REFER TO STAMPED SURVEY DOCUMENTATION FOR FURTHER INFORMATION.

CATHODIC PROTECTION NOTES

1. TEST STATIONS TO BE ATTACHED AS INDICATED ON ALIGNMENT SHEETS. FINAL LOCATIONS TO BE APPROVED IN FIELD BY COMPANY REPRESENTATIVE. PLACEMENT MUST BE REMOVED FROM PAVEMENT, TRAFFIC LANES AND SHOULDERS, AND WHEN POSSIBLE ALIGNED WITH POWER POLES OR FENCE POSTS FOR ADDITIONAL MECHANICAL PROTECTION.
2. FOREIGN CROSSING TEST STATIONS SHALL BE ADDED AS STEEL FOREIGN CROSSINGS ARE DISCOVERED. NOT INSTALLING A TEST STATION AT AN IDENTIFIED FOREIGN CROSSING MUST BE APPROVED BY NISOURCE CORROSION SME.
3. ALL TEST STATION LEADS MUST HAVE ENOUGH EXCESS CABLE TO ALLOW FOR FULL REMOVAL OF TEST STATION HEAD WHILE TERMINATED.
4. CORROSION PROTECTION IS DESIGNED BY NISOURCE AND IS NOT COVERED WITHIN THE ENGINEER'S STAMP.
5. 20" PIPING FIELD BENDS LIMITED TO 20° UNLESS APPROVED BY ENGINEERING.

LEGEND

DoT FIBER OPTIC — FO — FO — FO

DoT TELECOMM LINE — T — T — T

DOP BURIED POWER — E — E — E

GAS MAIN — G — G — G

DOP OVERHEAD POWER — OH — OH — OH

TR BURIED POWER/
TR OVERHEAD POWER — TR — TR — TR

UNKNOWN UTILITY

FENCE — x — x — x — x — x — x — x

PROPERTY LINE

RIGHT-OF-WAY — R/W — R/W — R/W

PULLBACK STRING — STRG — STRG

CENTERLINE

SEC LINE

RAILROAD

ROAD EDGE

WATERWAY

SANITARY SEWER — SS — SS — SS

STORM SEWER — ST — ST — ST

WATER MAIN — W — W — W

MAJOR CONT

MINOR CONT

PERMANENT EASEMENT

EXISTING GAS EASEMENT

TEMPORARY WORKSPACE WITHIN R.O.W.

TEMPORARY EASEMENT

TEMPORARY WORKSPACE

COH OWNED PROPERTY

EXISTING UTILITY EASEMENT

STORM DRAIN

SANITARY SEWER MANHOLE

VALVE

CATCH BASIN

OVERHEAD POWER POLE

POTHOLE LOCATION

FIRE HYDRANT

TRAFFIC BOX

SYMBOLOGY

ELBOW	ELL
FIELD BEND	FB
PROPERTY LINE	P/L
LEFT BEND	LB
RIGHT BEND	RB
OVER BEND	OB
SAG	SAG

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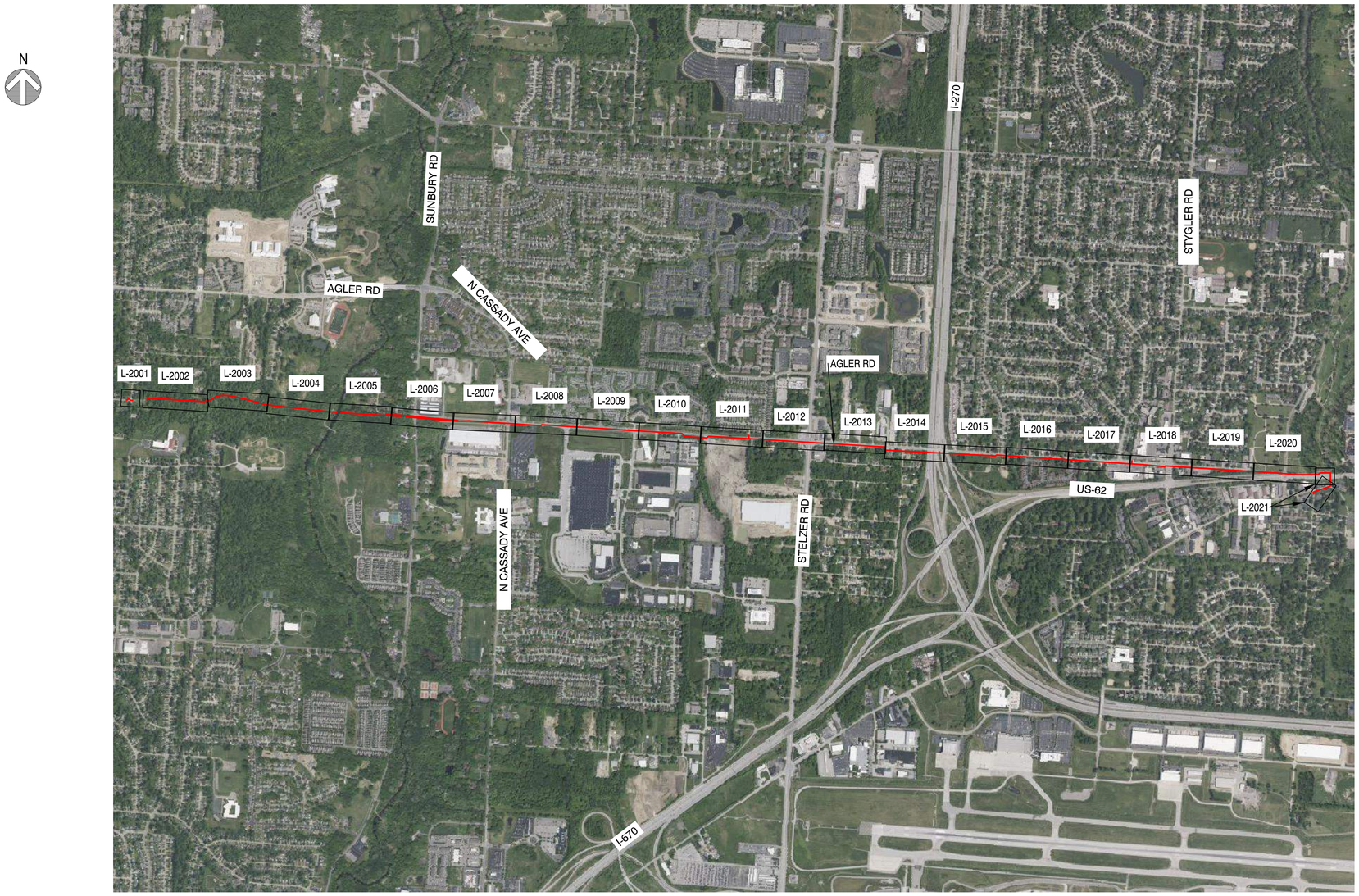
COLUMBUS / GAHANNA, FRANKLIN COUNTY, OH

DRAWING TITLE:

GENERAL NOTES & LEGEND

DRAWING NO:

GN-2002



OVERVIEW SHEET INDEX

SCALE: 1"=1000'

NOTE:
1. AERIAL IMAGERY IS FOR REFERENCE ONLY.

2/9/2021 - 22 x 34

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	NAME	DATE	PHONE #
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DESIGNED BY	JMJ	12/23/24	855-266-7667
CHECKED BY	RBW	12/23/24	855-266.7667
AS-BUILT BY	TBD	TBD	TBD

SITE NAME:

INST# 23-0083895-00
ABAN# 23-0083897-00
PROJECT ID# 21-78793

AGLER ROAD NCHP PIPELINE PROJECT
COLUMBUS/GAHANNA, FRANKLIN COUNTY, OH

DRAWING TITLE:

OVERVIEW SHEET

DRAWING NO:

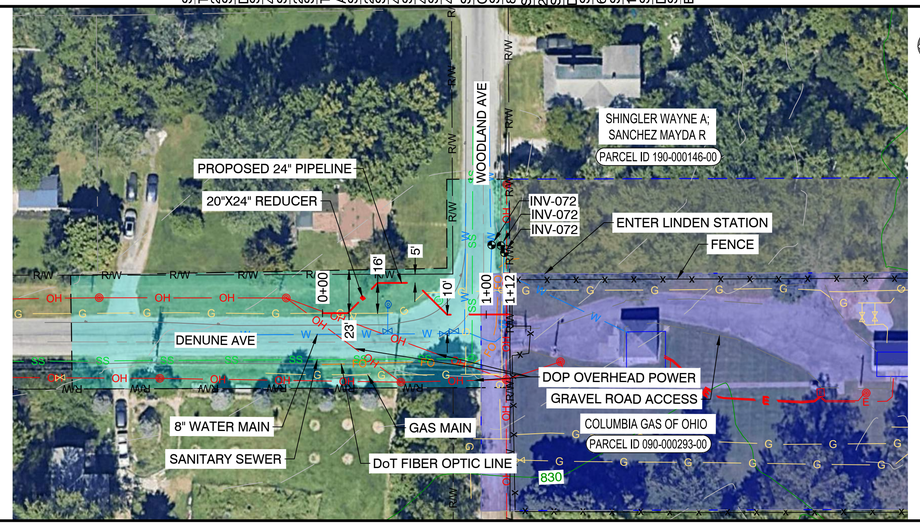
O-2001

OWNERSHIP		FRANKLIN COUNTY	
JURISDICTION / PARCEL ID	STA. 0+00	CITY OF COLUMBUS / FRANKLIN COUNTY	STA. 1+12
TEST PRESSURE / DESIGN INFO		1080 PSIG MIN / 1280 PSIG MAX / CLASS IV / 720 PSIG	
CONSTRUCTION METHOD		OPEN CUT	
PIPE			
FITTINGS			

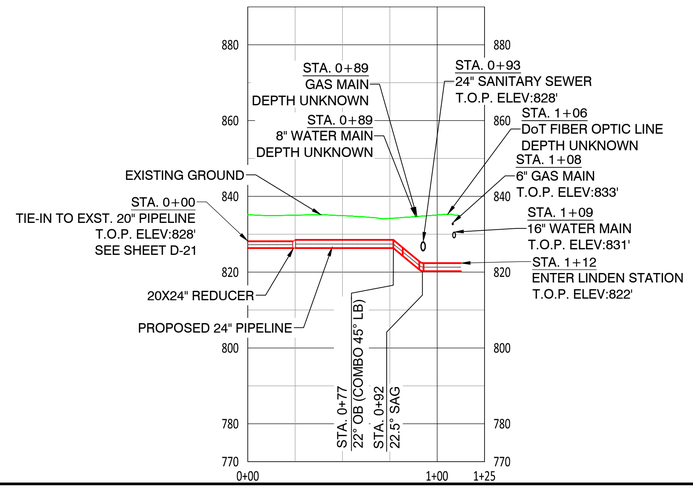
HORIZONTAL STATIONING

STA. 0+00 TIE-IN TO EXISTING 20" PIPELINE
STA. 0+02 DOP OVERHEAD POWER
STA. 0+13 45° LB
STA. 0+20 20" INSULATING JOINT
STA. 0+20 TEST STATION WITH #17 ANODE
STA. 0+24 24" X 20" REDUCER
STA. 0+36 45° RB
STA. 0+55 45° RB
STA. 0+79 45° LB (COMBO 22° OB)
STA. 0+89 GAS MAIN
STA. 0+89 8" WATER MAIN
STA. 0+93 24" SANITARY SEWER
STA. 1+06 DoT FIBER OPTIC LINE
STA. 1+08 6" GAS MAIN
STA. 1+09 16" WATER MAIN
STA. 1+11 DOP OVERHEAD POWER
STA. 1+12 ENTER LINDEN STATION

PROPOSED PLAN (SCALE: 1" = 40')



PROPOSED PROFILE (SCALE HORIZ.: 1" = 40') (SCALE VERT.: 1" = 20')



NOTES:
1. CONTRACTOR SHALL VERIFY ALL UTILITY CROSSINGS
2. SERVICE LINE CROSSINGS SHOWN IN SURVEY ARE NOT STATIONED OR SHOWN IN PROFILE FOR CLARITY
3. THE PIPELINE HAS GENERALLY BEEN DESIGNED WITH A COVER OF 6'-0" TO ACCOUNT FOR THE DEPTH OF UNKNOWN SERVICE LINES. MINIMUM ALLOWABLE DEPTH OF COVER IS 4'-0"
4. VERTICAL BENDS CALLED OUT IN PROFILE ARE FOR REFERENCE. CONTRACTOR TO MAKE USE OF ROPING AND FIELD BENDS WHERE POSSIBLE. REFER TO GS 3010.030 FOR FURTHER DETAILS
5. CORROSION PROTECTION IS DESIGNED BY NISOURCE AND IS NOT COVERED WITHIN THE ENGINEER'S STAMP
6. AERIAL IMAGERY IS FOR REFERENCE ONLY
7. FITTING EXTENTS SHOWN IN THE PROFILE ARE FOR REFERENCE ONLY. REFER TO STATIONING BAND FOR LOCATIONS OF ANTICIPATED FITTINGS. A 3X DIAMETER OF STRAIGHT PIPE IS REQUIRED BETWEEN ALL FITTINGS. REFER TO GS 2110.020 FOR FURTHER DETAILS

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(380) 799-8503

PROPOSED

REVISIONS		
A	12/23/24	ISSUED FOR PERMIT
REV. #	DATE	DESCRIPTION

INTERNAL ENG.	AD	12/23/24	614-981-0661
DESIGNED BY	JMJ	12/23/24	855-266-7671
CHECKED BY	RBW	12/23/24	855-266-7671
AS-BUILT BY	TBD	TBD	TBD
	NAME	DATE	PHONE #

SITE NAME:
INST# 23-0083895-00
ABAN# 23-0083897-00
PROJECT ID# 21-78793
AGLER ROAD NCHP PIPELINE PROJECT
COLUMBUS/GAHANNA, FRANKLIN COUNTY, OH

DRAWING TITLE:
24" WEST LINDEN ALIGNMENT
STA. 0+00 TO STA. 1+12

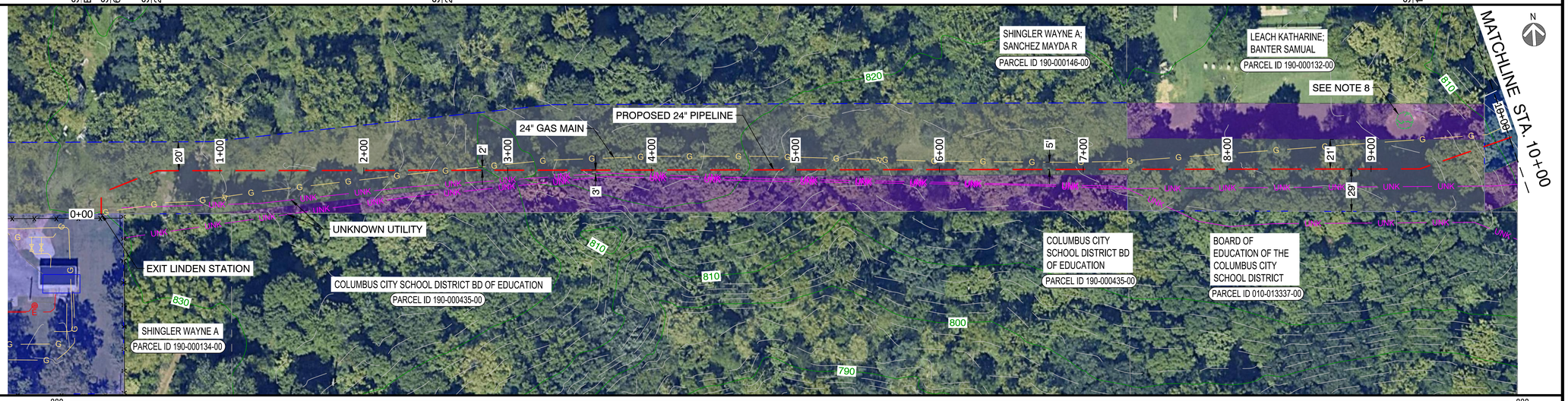
DRAWING NO:
L-2001

OWNERSHIP		SHINGLER WAYNE A; SANCHEZ MAYDA R	LEACH KATHARINE; BANTER SAMUAL
JURISDICTION / PARCEL ID	STA. 0+00	190-000146-00	190-000132-00
TEST PRESSURE / DESIGN INFO		1080 PSIG MIN / 1280 PSIG MAX / CLASS IV / 720 PSIG	STA. 10+00
CONSTRUCTION METHOD		OPEN CUT	
PIPE			
FITTINGS			

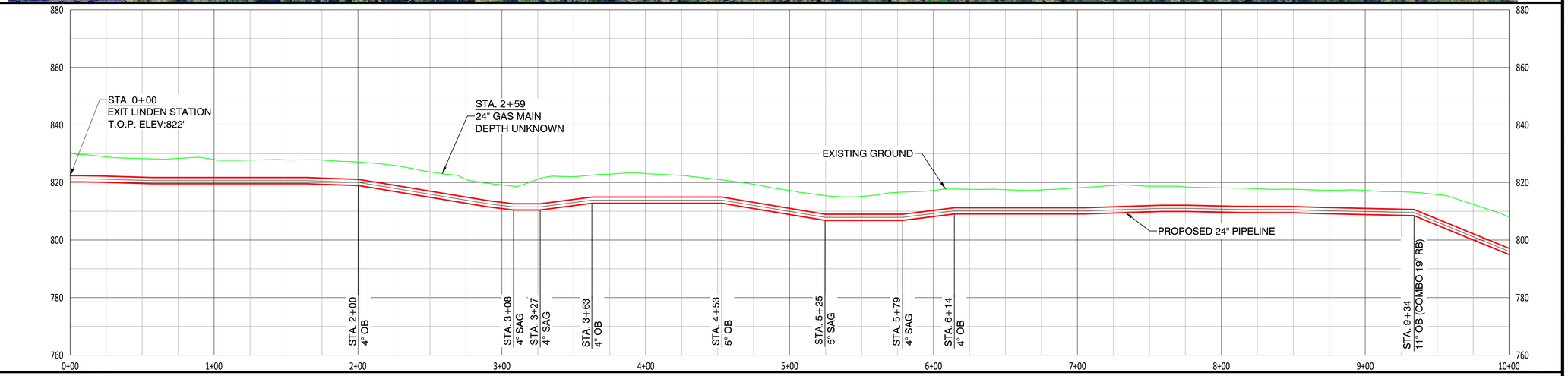
HORIZONTAL STATIONING

STA. 0+00 EXIT LINDEN STATION
STA. 0+15 68° RB
STA. 0+56 22.5° RB
STA. 2+59 24" GAS MAIN
STA. 9+34 19° RB (COMBO 11° OB)

PROPOSED PLAN (SCALE: 1" = 40')



PROPOSED PROFILE (SCALE HORIZ.: 1" = 40' / SCALE VERT.: 1" = 20')



NOTES:
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8. DECIDUOUS TREE NOT TO BE DISTURBED DURING CONSTRUCTION

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(380) 799-8503

PROPOSED

REVISIONS		
A	12/23/24	ISSUED FOR PERMIT
REV. #	DATE	DESCRIPTION

INTERNAL ENG.	AD	12/23/24	614-981-0661
DESIGNED BY	JMJ	12/23/24	855-266-7671
CHECKED BY	RBW	12/23/24	855-266-7671
AS-BUILT BY	TBD	TBD	TBD
	NAME	DATE	PHONE #

SITE NAME:
INST# 23-0083895-00
ABAN# 23-0083897-00
PROJECT ID# 21-78793
AGLER ROAD NCHP PIPELINE PROJECT
COLUMBUS/GAHANNA, FRANKLIN COUNTY, OH

DRAWING TITLE:
STA. 0+00 TO STA. 10+00

DRAWING NO:
L-2002

OWNERSHIP	BRIDGEWALK BIRDIE LLC	BRIDGEWALK BIRDIE LLC	FAITH MINISTRIES INC	
JURISDICTION / PARCEL ID	010-073672-00	010-073678-00	010-222988-00	
TEST PRESSURE / DESIGN INFO	1080 PSIG MIN / 1280 PSIG MAX / CLASS IV / 720 PSIG			
CONSTRUCTION METHOD	OPEN CUT			
PIPE				
FITTINGS				

STA. 10+00

STA. 20+00

HORIZONTAL STATIONING

STA. 10+65
20° LB

STA. 11+38
24" GAS MAIN
STA. 11+56
29° RB

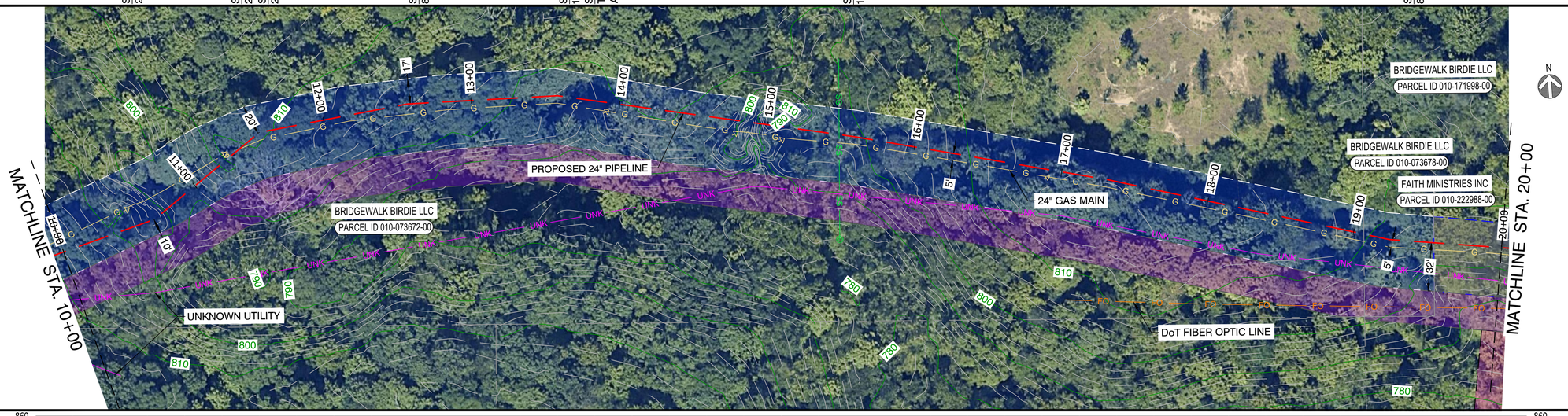
STA. 12+57
8° RB

STA. 13+58
11° RB
STA. 13+58
TEST STATION WITH #17 ANODE

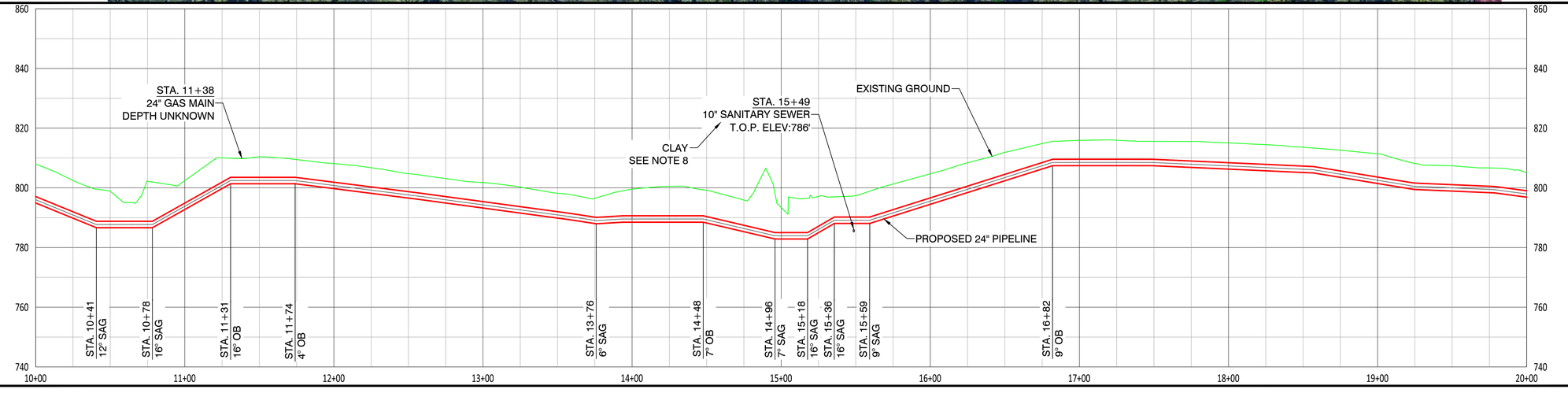
STA. 15+49
10" SANITARY SEWER

STA. 19+24
8° LB

PROPOSED PLAN (SCALE: 1" = 40')



PROPOSED PROFILE (SCALE HORIZ.: 1" = 40' / SCALE VERT.: 1" = 20')



NOTES:
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8. SANITARY SEWER MATERIAL IS CLAY. DO NOT EXPOSE SANITARY SEWER

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PROPOSED

REVISIONS		
A	12/23/24	ISSUED FOR PERMIT
REV. #	DATE	DESCRIPTION

INTERNAL ENG.	AD	12/23/24	614-981-0661
DESIGNED BY	JMJ	12/23/24	855-266-7671
CHECKED BY	RBW	12/23/24	855-266-7671
AS-BUILT BY	TBD	TBD	TBD
	NAME	DATE	PHONE #

SITE NAME:

INST# 23-0083895-00
ABAN# 23-0083897-00
PROJECT ID# 21-78793

AGLER ROAD NCHP PIPELINE PROJECT
COLUMBUS/GAHANNA, FRANKLIN COUNTY, OH

DRAWING TITLE:

STA. 10+00 TO STA. 20+00

DRAWING NO:

L-2003

OWNERSHIP	FAITH MINISTRIES INC	BRIDGEWALK BIRDIE LLC	BRIDGEWALK BIRDIE LLC	BRIDGEWALK BIRDIE LLC	BRIDGEWALK BIRDIE LLC	BRIDGEWALK BIRDIE LLC	BRIDGEWALK BIRDIE LLC	BRIDGEWALK BIRDIE LLC	FAITH MINISTRIES INC	
JURISDICTION / PARCEL ID	010-222988-00	010-171997-00	010-171996-00	010-171995-00	010-171994-00	010-171993-00	010-171992-00	010-184061-00	010-222988-00	
STA. 20+00 — TEST PRESSURE / DESIGN INFO	1080 PSIG MIN / 1280 PSIG MAX / CLASS IV / 720 PSIG									STA. 30+00
CONSTRUCTION METHOD	OPEN CUT			HDD						
PIPE										
FITTINGS										

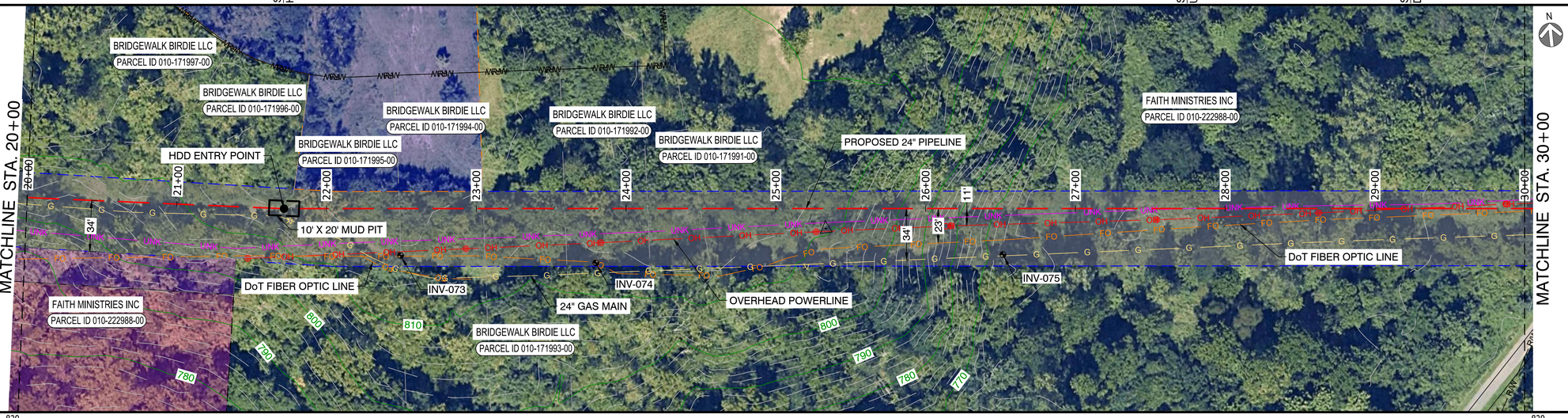
HORIZONTAL STATIONING

STA. 21+72 HDD ENTRY

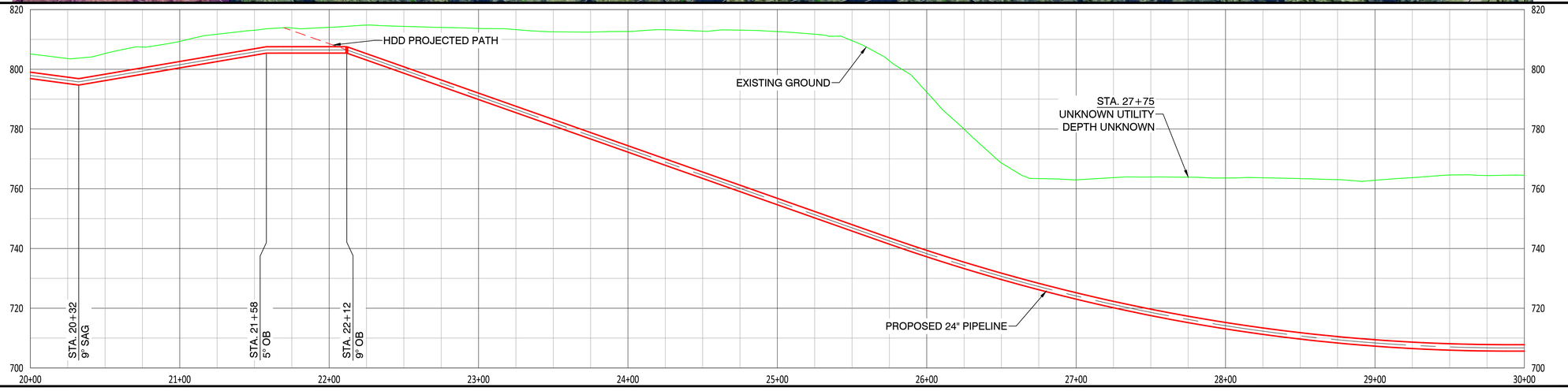
STA. 27+75 UNKNOWN UTILITY

STA. 29+24 DOP OVERHEAD POWER

PROPOSED PLAN (SCALE: 1" = 40')



PROPOSED PROFILE (SCALE HORZ.: 1" = 40' / SCALE VERT.: 1" = 20')



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PROPOSED

REVISIONS		
A	12/23/24	ISSUED FOR PERMIT
REV. #	DATE	DESCRIPTION

INTERNAL ENG.	AD	12/23/24	614-981-0661
DESIGNED BY	JMJ	12/23/24	855-266-7671
CHECKED BY	RBW	12/23/24	855-266-7671
AS-BUILT BY	TBD	TBD	TBD
	NAME	DATE	PHONE #

SITE NAME:

INST# 23-0083895-00
ABAN# 23-0083897-00
PROJECT ID# 21-78793

AGLER ROAD NCHP PIPELINE PROJECT
COLUMBUS/GAHANNA, FRANKLIN COUNTY, OH

DRAWING TITLE:

STA. 20+00 TO STA. 30+00

DRAWING NO:

L-2004

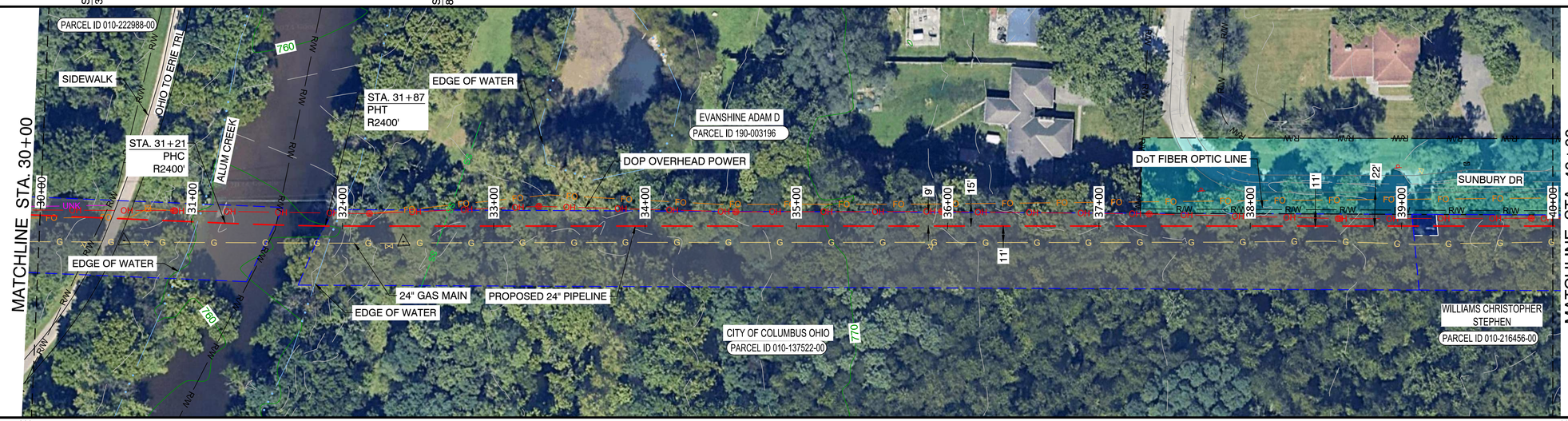
OWNERSHIP	FAITH MINISTRIES INC	ALUM CREEK	CITY OF COLUMBUS OHIO	WILLIAMS CHRISTOPHER STEPHEN	
JURISDICTION / PARCEL ID	010-222988-00	CITY OF COLUMBUS / FRANKLIN COUNTY	010-137522-00	010-216456	
TEST PRESSURE / DESIGN INFO	STA. 30+00	1080 PSIG MIN / 1280 PSIG MAX / CLASS IV / 720 PSIG			STA. 40+00
CONSTRUCTION METHOD		HDD			
PIPE					
FITTINGS					

HORIZONTAL STATIONING

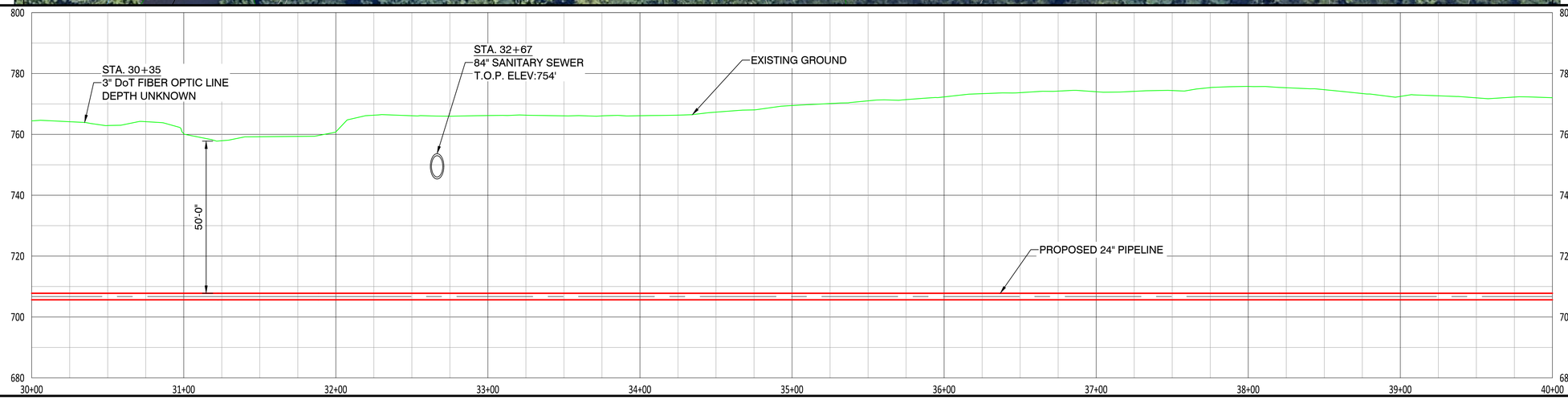
STA. 30+35
3" DoT FIBER OPTIC LINE

STA. 32+67
84" SANITARY SEWER

PROPOSED PLAN (SCALE: 1" = 40')



PROPOSED PROFILE (SCALE HORIZ.: 1" = 40' / SCALE VERT.: 1" = 20')



NOTES:
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8. TREES LOCATED ON CITY OF COLUMBUS OWNED PROPERTY ARE NOT PERMITTED TO BE REMOVED AND MUST REMAIN UNDISTURBED

2/9/2021 - 22 x 34

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PROPOSED

REVISIONS		
A	12/23/24	ISSUED FOR PERMIT
REV. #	DATE	DESCRIPTION

INTERNAL ENG.	AD	12/23/24	614-981-0661
DESIGNED BY	JMJ	12/23/24	855-266-7671
CHECKED BY	RBW	12/23/24	855-266-7671
AS-BUILT BY	TBD	TBD	TBD
	NAME	DATE	PHONE #

SITE NAME:

INST# 23-0083895-00
ABAN# 23-0083897-00
PROJECT ID# 21-78793

AGLER ROAD NCHP PIPELINE PROJECT
COLUMBUS/GAHANNA, FRANKLIN COUNTY, OH

DRAWING TITLE:

STA. 30+00 TO STA. 40+00

DRAWING NO:

L-2005

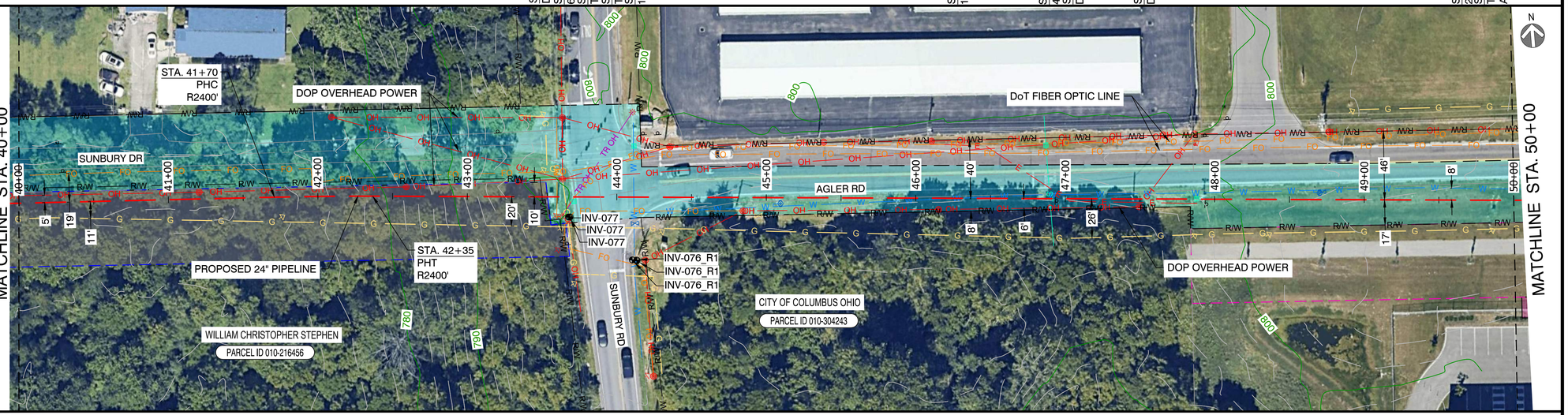
OWNERSHIP	WILLIAMS CHRISTOPHER STEPHEN	FRANKLIN COUNTY	
JURISDICTION / PARCEL ID	010-216456	CITY OF COLUMBUS / FRANKLIN COUNTY	
TEST PRESSURE / DESIGN INFO	1080 PSIG MIN / 1280 PSIG MAX / CLASS IV / 720 PSIG		
CONSTRUCTION METHOD	HDD	OPEN CUT	
PIPE			
FITTINGS			

STA. 40+00 — STA. 50+00

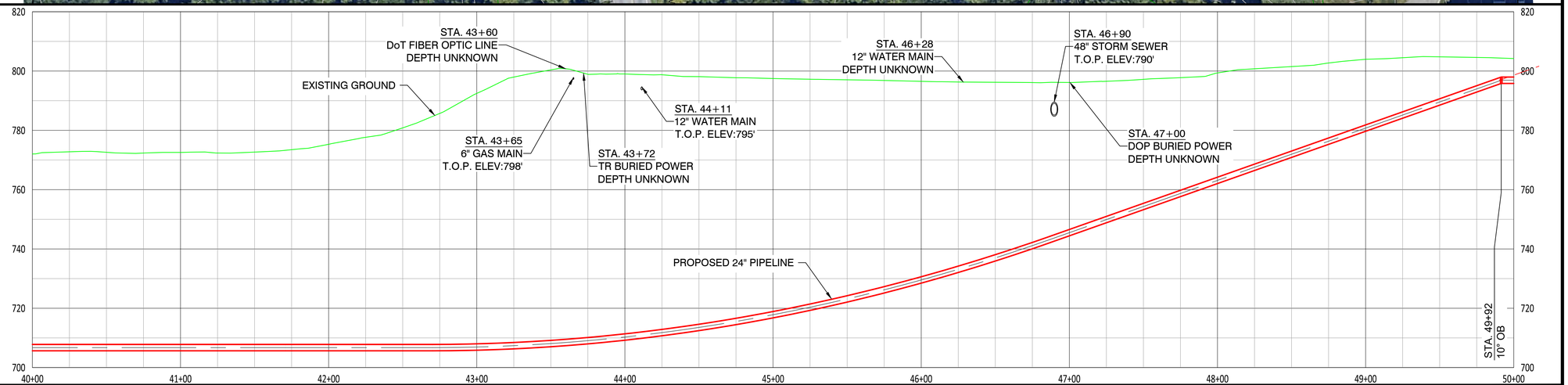
HORIZONTAL STATIONING

STA. 43+60 DoT FIBER OPTIC LINE
STA. 43+65 6" GAS MAIN
STA. 43+72 TR BURIED POWER
STA. 43+72 TR BURIED POWER
STA. 44+11 12" WATER MAIN
STA. 46+28 12" WATER MAIN
STA. 46+90 48" STORM SEWER
STA. 47+00 DOP BURIED POWER
STA. 47+53 DOP OVERHEAD POWER
STA. 49+93 24" INSULATING JOINT
STA. 49+93 TEST STATION WITH #17 ANODE

PROPOSED PLAN (SCALE: 1" = 40')



PROPOSED PROFILE (SCALE HORIZ.: 1" = 40' / SCALE VERT.: 1" = 20')



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2/9/2021 - 22 x 34

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PROPOSED

REVISIONS		
A	12/23/24	ISSUED FOR PERMIT
REV. #	DATE	DESCRIPTION

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DESIGNED BY	JMJ	12/23/24	855-266-7671
CHECKED BY	RBW	12/23/24	855-266-7671
AS-BUILT BY	TBD	TBD	TBD
	NAME	DATE	PHONE #

SITE NAME:

INST# 23-0083895-00
ABAN# 23-0083897-00
PROJECT ID# 21-78793

AGLER ROAD NCHP PIPELINE PROJECT
COLUMBUS/GAHANNA, FRANKLIN COUNTY, OH

DRAWING TITLE:

STA. 40+00 TO STA. 50+00

DRAWING NO:

L-2006

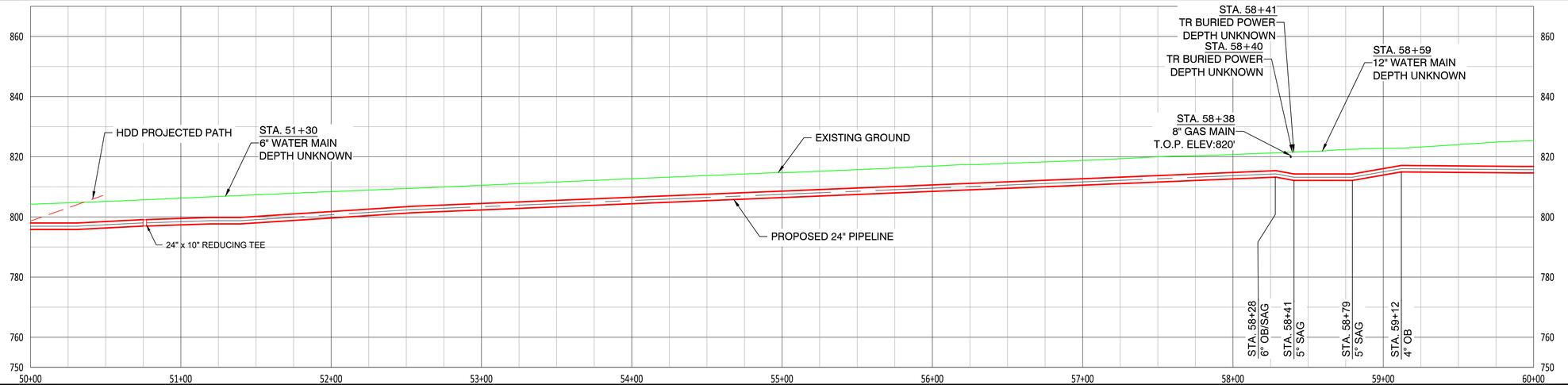
OWNERSHIP		FRANKLIN COUNTY / CITY OF COLUMBUS	
JURISDICTION / PARCEL ID	STA. 50+00	CITY OF COLUMBUS / FRANKLIN COUNTY	STA. 60+00
TEST PRESSURE / DESIGN INFO		1080 PSIG MIN / 1280 PSIG MAX / CLASS IV / 720 PSIG	
CONSTRUCTION METHOD		OPEN CUT	
PIPE			
FITTINGS			

HORIZONTAL STATIONING

STA. 50+37 HDD EXIT
STA. 50+58 7" LB
STA. 50+76 24" X 10" REDUCING TEE
STA. 51+30 6" WATER MAIN
STA. 52+54 6" RB
STA. 58+38 8" GAS MAIN
STA. 58+40 TR BURIED POWER
STA. 58+41 TR BURIED POWER
STA. 58+57 TR OH POWER
STA. 58+59 12" WATER MAIN
STA. 59+10 TR OH POWER
STA. 59+18 DOP OVERHEAD POWER
STA. 59+25 DOP OVERHEAD POWER

PROPOSED PLAN (SCALE: 1" = 40')

PROPOSED PROFILE (SCALE HORIZ.: 1" = 40' / SCALE VERT.: 1" = 20')



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8. WORKSPACE TO REMAIN OUTSIDE OF FENCED AREA

2/9/2021 - 22 x 34

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(380) 799-8503

PROPOSED

REVISIONS		
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REV. #	DATE	DESCRIPTION

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DESIGNED BY	JMJ	12/23/24	855-266-7671
CHECKED BY	RBW	12/23/24	855-266-7671
AS-BUILT BY	TBD	TBD	TBD
	NAME	DATE	PHONE #

SITE NAME:

INST# 23-0083895-00
ABAN# 23-0083897-00
PROJECT ID# 21-78793

AGLER ROAD NCHP PIPELINE PROJECT
COLUMBUS/GAHANNA, FRANKLIN COUNTY, OH

DRAWING TITLE:

STA. 50+00 TO STA. 60+00

DRAWING NO:

L-2007

	STA. 60+00		STA. 70+00
OWNERSHIP		CITY OF COLUMBUS	
JURISDICTION / PARCEL ID		CITY OF COLUMBUS / FRANKLIN COUNTY	
TEST PRESSURE / DESIGN INFO		1080 PSIG MIN / 1280 PSIG MAX / CLASS IV / 720 PSIG	
CONSTRUCTION METHOD		OPEN CUT	
PIPE			
FITTINGS			

HORIZONTAL STATIONING

STA. 60+08
6" STORM SEWER VCP

STA. 62+42
DOP OVERHEAD POWER

STA. 64+12
45° LB

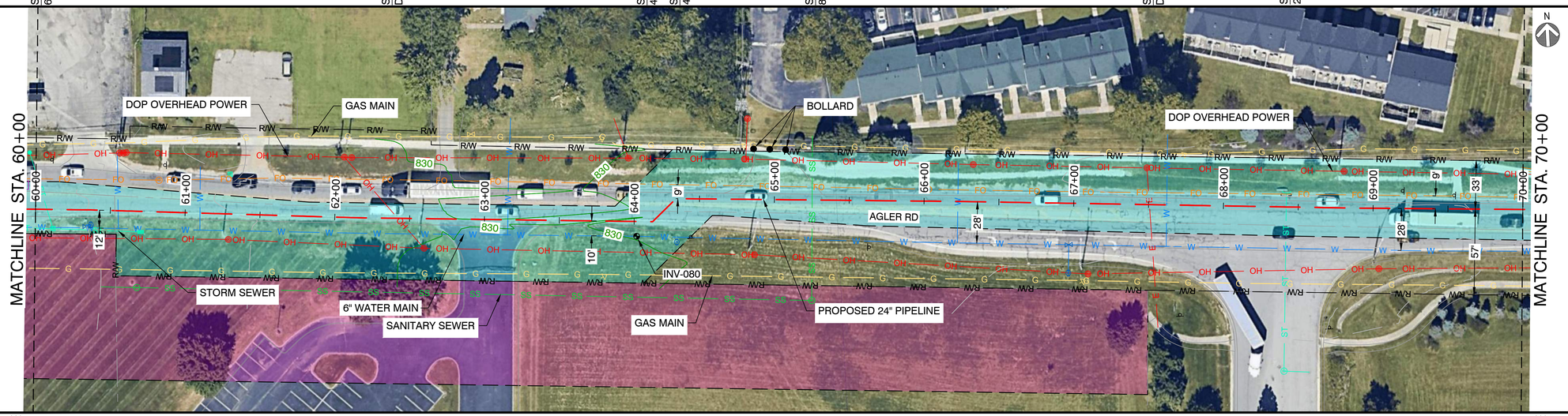
STA. 64+34
45° RB

STA. 65+25
8" SANITARY SEWER

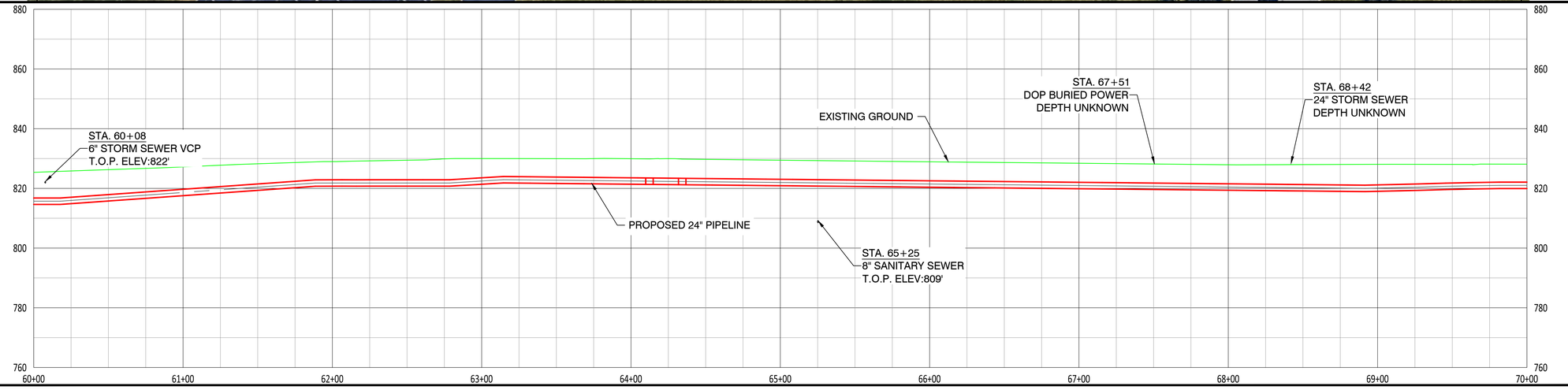
STA. 67+51
DOP BURIED POWER

STA. 68+42
24" STORM SEWER

PROPOSED PLAN (SCALE: 1" = 40')



PROPOSED PROFILE (SCALE HORIZ.: 1" = 40' / SCALE VERT.: 1" = 40')



NOTES:
1. CONTRACTOR SHALL VERIFY ALL UTILITY CROSSINGS
2. SERVICE LINE CROSSINGS SHOWN IN SURVEY ARE NOT STATIONED OR SHOWN IN PROFILE FOR CLARITY
3. THE PIPELINE HAS GENERALLY BEEN DESIGNED WITH A COVER OF 6'-0" TO ACCOUNT FOR THE DEPTH OF UNKNOWN SERVICE LINES. MINIMUM ALLOWABLE DEPTH OF COVER IS 4'-0"
4. VERTICAL BENDS CALLED OUT IN PROFILE ARE FOR REFERENCE. CONTRACTOR TO MAKE USE OF ROPING AND FIELD BENDS WHERE POSSIBLE. REFER TO GS 3010.030 FOR FURTHER DETAILS
5. CORROSION PROTECTION IS DESIGNED BY NISOURCE AND IS NOT COVERED WITHIN THE ENGINEER'S STAMP
6. AERIAL IMAGERY IS FOR REFERENCE ONLY
7. FITTING EXTENTS SHOWN IN THE PROFILE ARE FOR REFERENCE ONLY. REFER TO STATIONING BAND FOR LOCATIONS OF ANTICIPATED FITTINGS. A 3X DIAMETER OF STRAIGHT PIPE IS REQUIRED BETWEEN ALL FITTINGS. REFER TO GS 2110.020 FOR FURTHER DETAILS

2/9/2021 - 22 x 34

NiSource

Ohio Utilities Protection Service
Call 811 before you dig

CAMPOS EPC
401 N Front St, Suite 380, Columbus, OH 43215
(380) 799-8503

PROPOSED

REVISIONS		
A	12/23/24	ISSUED FOR PERMIT
REV. #	DATE	DESCRIPTION

	NAME	DATE	PHONE #
INTERNAL ENG.	AD	12/23/24	614-981-0661
DESIGNED BY	JMJ	12/23/24	855-266-7671
CHECKED BY	RBW	12/23/24	855-266-7671
AS-BUILT BY	TBD	TBD	TBD

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AGLER ROAD NCHP PIPELINE PROJECT
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