

AS-BUILT

24-Inch CROSS-COUNTRY WATER MAIN REPLACEMENT

{Rogers Road to Center View Blvd.}

Phase 2 of WX21117003

EDGEWOOD/CRESTVIEW HILLS, KENTON COUNTY, KENTUCKY

JANUARY 2020

Occupational Safety and Health Administration (OSHA)

It shall be the full and complete responsibility of the contractor to meet and comply with safety requirements and regulations as established by OSHA or any other regulatory body. The owner and engineer will not perform any safety compliance inspections as the contractor has accepted full and complete responsibility for performing such inspections for compliance to the regulations.

The contractor shall indemnify and protect and hold harmless the owner and engineer from any loss, expense, fine, damage, or suit, including attorney's fees, arising out of any safety violation suits brought by injured persons and/or fines levied by OSHA or any other regulatory body, as a result of the contractor's work.

GENERAL NOTES:

- CONTRACTOR SHALL SUPPLY FIELD NOTES UPON COMPLETION OF PROJECT IN SUFFICIENT DETAIL TO PREPARE "RECORD DRAWINGS."
- TREES AND BUSHES SHALL BE REMOVED ON AS DIRECTED BY THE ENGINEER.
- YARD RESTORATION SHALL CONFORM TO URBAN STANDARDS AND SPECIFICATIONS.
- LOCATION OF UTILITIES AND STRUCTURES, BOTH SURFACE AND SUBSURFACE, ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF BIDDING, AND ARE NOT NECESSARILY COMPLETE AND CORRECT. DURING CONSTRUCTION THE CONTRACTOR SHALL USE DILIGENCE IN PROTECTING FROM DAMAGE ALL EXISTING UTILITIES AND STRUCTURES WHETHER SHOWN ON THE PLAN OR NOT. IF DAMAGE IS CAUSED, THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR OR RESTORATION OF SAME TO THE SATISFACTION OF THE ENGINEER AND UTILITY COMPANY.
- CONTRACTOR IS RESPONSIBLE FOR EXPOSING UNDERGROUND UTILITIES AS DIRECTED BY THE ENGINEER PRIOR TO CONSTRUCTION STAKING TO VERIFY THE EXACT LOCATION AND DEPTH OF UTILITIES.

* FOR FURTHER INSTRUCTIONS AND SPECIFICATIONS - SEE SPEC. BOOK

GAS FACILITY NOTES:

- FOR GAS DISTRIBUTION ENGINEERING NOTIFICATION, AGREEMENTS AND OFFICIAL CORRESPONDENCE, ADDRESS TO:
JOHN T. STENGER, P.E.
GAS DISTRIBUTION ENGINEERING
P.O. BOX 960, ROOM 460A
CINCINNATI, OH 45201-0960
- THE PRINT SHOWS THE APPROXIMATE LOCATION AND DEPTHS OF COVER AND IS PROVIDED TO COMPLY WITH STATUTORY REGULATIONS. THE INFORMATION SHOULD BE USED ONLY FOR PLANNING, NOT CONSTRUCTION.
- ALL GAS FACILITY DEPTHS NOTED ARE APPROXIMATE DEPTHS RECORDED AT THE TIME OF INSTALLATION ANY RESULTING GRADE CHANGES SINCE THE TIME OF THE MAIN INSTALLATION WILL CAUSE THE EXISTING DEPTH OF COVER TO BE DIFFERENT. EXTREME CARE MUST BE TAKEN TO ENSURE SAFE EXCAVATION WHEN APPROACHING KNOWN OR SUSPECTED GAS FACILITIES.
- ALL GAS SERVICES WERE INSTALLED AT A MINIMUM OF 1'-6" COVER. SEE III ABOVE.
- FOR ADDITIONAL GAS FACILITY INFORMATION, CALL (513)287-2532 OR (513)287-1264.
- TO COMPLY WITH FEDERAL AND STATE REGULATIONS CONCERNING DAMAGE PREVENTION PROGRAMS THE UTILITY COMPANIES MUST BE CONTACTED AT LEAST 48 HOURS (2 WORKING DAYS) PRIOR TO EXCAVATION BY CALLING KENTUCKY UNDERGROUND PROTECTION INC. (KUPI), TOLL FREE AT 1-800-752-6007.

CONSTRUCTION NOTES:

- GAS FACILITIES ARE TO BE KEPT IN SERVICE AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO GAS FACILITIES DURING OR AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION. ALL DAMAGE TO GAS FACILITIES DURING ADJUSTMENTS, RELOCATION'S AND/OR REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL SHEET AND SHORE ALL EXCAVATIONS AS REQUIRED TO CONTINUOUSLY SUPPORT GAS FACILITIES WITHIN THE ZONE OF INFLUENCE (AS DETERMINED BY THE NATURAL ANGLE OF REPOSE OF THE SOIL).
- CROSSING BURIED GAS FACILITIES WITH HEAVY CONSTRUCTION EQUIPMENT MAY CAUSE DAMAGE TO THE GAS FACILITIES. CONTACT THE GAS ENGINEERING DEPARTMENT FOR DETAILS ON HOW TO PROTECT THE GAS FACILITIES FROM DAMAGE.
- THE CONTRACTOR SHALL NOT BACKFILL EXPOSED GAS FACILITIES UNTIL THE UTILITY HAS INSPECTED ITS FACILITIES AND PERFORMED ANY MAINTENANCE AND/OR ADJUSTMENTS THAT MAY BE REQUIRED.
- THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING ANY DAMAGE TO OUR GAS FACILITIES. THIS INCLUDES PROTECTION OF COOLINGS AND WRAPPINGS ON STEEL GAS MAINS. IT ALSO INCLUDES ANY DAMAGE WHICH MAY HAVE OCCURRED TO PLASTIC GAS MAINS, SUCH AS CRIMPS OR GAUGES.
- WHEN CAST IRON OR SIMILAR GAS FACILITIES ARE EXPOSED OR INTERFERED WITH BY THE CONTRACTOR, REPLACEMENT OR REINFORCEMENT BY DUKE MAY BE REQUIRED AT THE CONTRACTOR'S EXPENSE. BACKFILL WITH CONTROL LOW STRENGTH MATERIAL WILL BE REQUIRED.
- BLASTING OR OTHER CONSTRUCTION PROCEDURES WHICH MAY TRANSMIT LOADS OR VIBRATIONS IN THE VICINITY OF GAS FACILITIES MUST BE APPROVED BY DUKE'S GAS ENGINEERING DEPARTMENT. A BLASTING PLAN, IDENTIFYING ALL PERTINENT INFORMATION, MUST BE SUBMITTED IN WRITING BY A BLASTING EXPERT PRIOR TO ANY WORK.

PROPOSED DEVELOPMENTS AT GAS R/W & EASEMENTS (IF APPLICABLE)

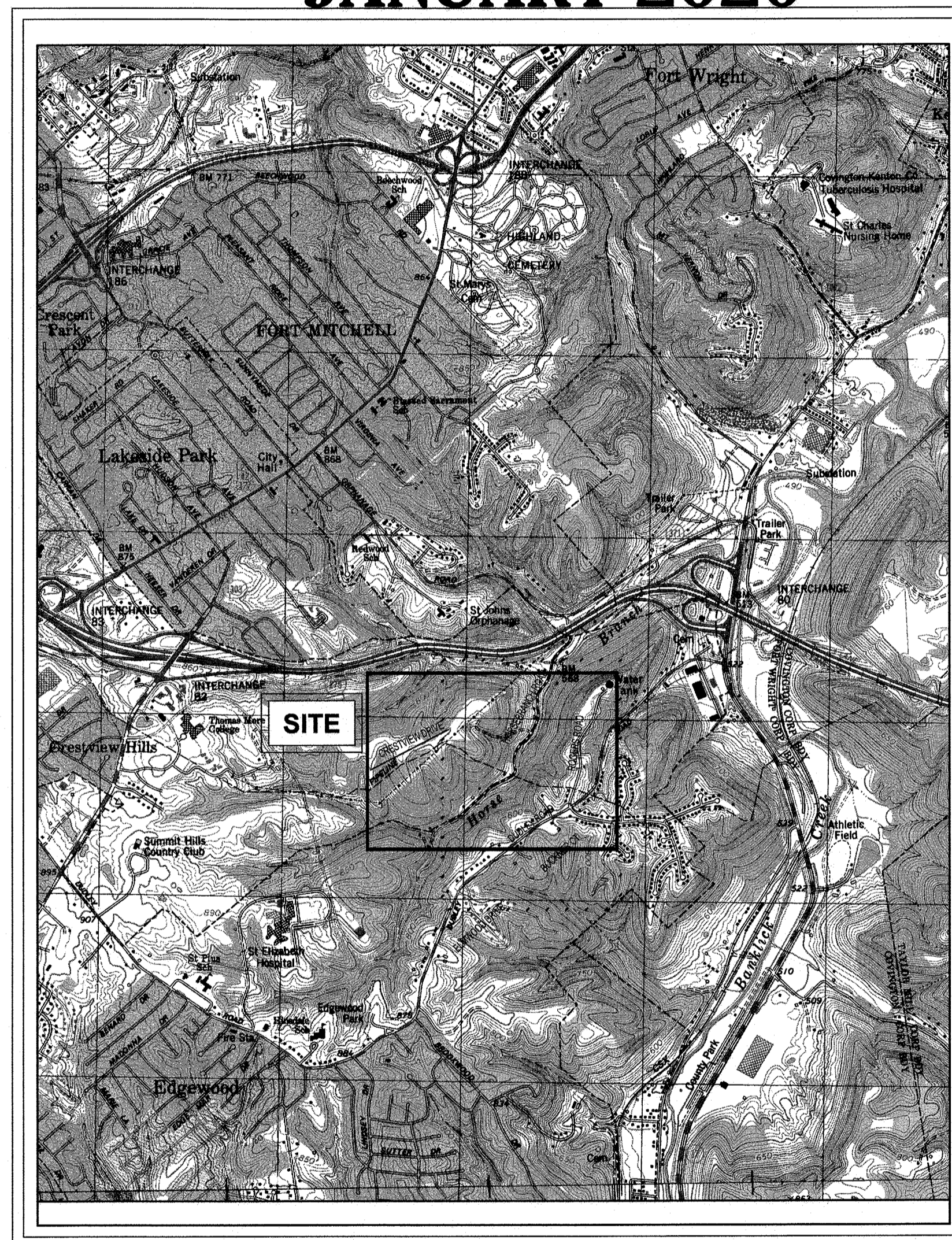
- PROPOSED DEVELOPMENT PLANS AROUND AND NEAR GAS FACILITIES WITHIN PRIVATE EASEMENTS MUST BE SUBMITTED TO DUKE'S GAS ENGINEERING DEPARTMENT FOR REVIEW. THESE PLANS MUST BE APPROVED ANY WORK MAY BEGIN WITHIN OUR EASEMENT.
- SPECIFIED EASEMENT WIDTHS MUST BE MAINTAINED IN ORDER FOR DUKE TO PROTECT ITS FACILITIES.
- NO PERMANENT STRUCTURES MAY BE BUILT WITHIN THE EASEMENTS.
- CUTS AND FILL S ARE GENERALLY NOT PERMITTED WITHIN THE EASEMENTS. SOME FILLS MAY BE ALLOWED AND WILL BE REVIEWED ON AN INDIVIDUAL BASIS. ANY PERMITTED FILLS WILL BE LIMITED TO AN AMOUNT WHICH WILL ALLOW DUKE TO PROPERLY MAINTAIN ITS FACILITIES.
- PERPENDICULAR UTILITY CROSSINGS OF GAS EASEMENTS ARE ACCEPTABLE, PROVIDED PROPER CLEARANCES ARE MAINTAINED. PARALLEL INSTALLATION ARE NORMALLY NOT ALLOWED.

NOTE:

IT IS IMPERATIVE THE CONTRACTOR REVIEW THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL MAINTAIN THE DEPTHS AS SHOWN IN PROFILE. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. (GEOTECHNOLOGY INC. REPORT, SECTION 7 - Pgs 7-17)

NOTE:

THE FUTURE DEVELOPMENT PLANS FOR THE ROADWAY AND RETAINING WALL SHOULD BE SUBMITTED TO NKWD FOR APPROVAL PRIOR TO FINALIZING DESIGN PLANS IN ORDER TO CONFIRM THAT THE MINIMUM DEPTH OF COVER OF 48 INCHES WILL BE PROVIDED BY FINAL PROPOSED GRADES FROM APPROXIMATE STATION 0+30 TO APPROXIMATE STATION 4+45.



SCALE 1"=2000'
U.S.G.S. COVINGTON QUAD

Erosion Control Notes:

A copy of the Kentucky Pollutant Discharge Elimination System General Permit KYR10 by which the operator is covered can be found on the website: <http://water.ky.gov>. Any questions concerning the general permit and its requirements should be directed to the Surface Water Permits Branch of the Kentucky Division of Water.

PH: (502)564-3410

It is solely the contractor's responsibility to adhere to the requirements of the KYR10 General Permit and implement the Erosion Control Plan Best Management Practices (BMPs) outlined in the Storm Water Pollution and Prevention Plan (SWPPP) book. The contractor shall provide a Kentucky Erosion Prevention and Sediment Control (KEPSC) program qualified inspector to routinely conduct site inspections and complete required documentation in the SWPPP book, per KYR10. It shall be understood that the SWPPP book is a living document, and BMPs shall be amended as needed to provide erosion control and good housekeeping on an evolving construction site, and shall be used throughout the length of the construction project until the site is permanently stabilized, equipment has demobilized, and a Notice of Termination has been filed with the Kentucky Division of Water.

DUKE ENERGY

- DANGER - CONTRACTOR SHALL CONTACT THE COMPANY PRIOR TO EXCAVATION IN VICINITY OF ELECTRIC UNDERGROUND FACILITIES OR WHEN WORKING IN CLOSE PROXIMITY OF OVERHEAD ELECTRIC FACILITIES.
 - FOR FIELD INSPECTOR TO LOCATE UNDERGROUND ELECTRIC LINES: IN OHIO, CALL "OHIO UTILITIES PROTECTION SERVICE", 1-800-362-2764, IN KENTUCKY, CALL "KENTUCKY DIG SAFELY", 1-800-752-6007 THESE CALLS SHOULD BE MADE AT LEAST 48 HOURS IN ADVANCE, EXCLUDING SATURDAYS, SUNDAYS, AND STATE LEGAL HOLIDAYS.
 - FOR NOTIFICATION OF CONSTRUCTION ACTIVITY NEAR ENERGIZED ELECTRIC FACILITIES CALL (513) 421-9500, OR THE ELECTRIC TECHNICIAN, IF KNOWN, WHO HAS BEEN ASSIGNED TO YOUR PROJECT, AT LEAST 48 HOURS IN ADVANCE.
 - FOR ADDITIONAL UNDERGROUND ELECTRIC RECORD INFORMATION, CALL (513) 287-2454.
 - FOR ELECTRIC ENGINEERING NOTIFICATION, AGREEMENTS AND CORRESPONDENCE, ADDRESS TO MR. TOM BIRKENHAUER, DUKE ENERGY CORPORATION, DISTRIBUTION DESIGN ENGINEERING, ROOM 467A, 139 E. FOURTH STREET, P.O. BOX 960, CINCINNATI, OH 45202-0960.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO ELECTRIC FACILITIES DURING CONSTRUCTION.
- ELECTRIC FACILITIES TO BE KEPT IN SERVICE AT ALL TIMES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING EXISTING ELECTRIC FACILITIES AFFECTED BY THE PROPOSED CONSTRUCTION.
 - WHERE HIGH PRESSURE OIL FILLED PIPE TYPE CABLE INSTALLATION ARE EXPOSED OR OTHERWISE INTERFERED WITH BY THE CONTRACTOR, PROTECTION BY THE CONTRACTOR WILL BE REQUIRED AGAINST DAMAGE TO THE COATING SURROUNDING THERMAL SAND ENVELOPE.
 - WHERE CONCRETE ENCASED CONDUIT SYSTEMS OR DIRECT BURIED CABLE SYSTEMS ARE EXPOSED OR OTHERWISE INTERFERED WITH, THE CONTRACTOR SHALL PROTECT THE SYSTEM AS NECESSARY AGAINST DAMAGE. AS SOON AS FEASIBLE, THE CONTRACTOR SHALL TAKE ADDITIONAL APPROPRIATE STEPS TO PROVIDE PERMANENT MEASURES TO RESTORE SUPPORT. THE METHODS USED SHALL BE BASED ON CONDITIONS TO BE DETERMINED BY THE UTILITY.
 - WHERE POLES OR ANCHORS THAT SUPPORT OVERHEAD ELECTRIC FACILITIES ARE EXPOSED OR OTHERWISE INTERFERED WITH, THE CONTRACTOR SHALL PROTECT THEM FROM DAMAGE AND PROVIDE TEMPORARY SUPPORT TO INSURE THE INTEGRITY OF THE SYSTEM. AS SOON AS FEASIBLE, THE CONTRACTOR SHALL TAKE ADDITIONAL APPROPRIATE STEPS TO PROVIDE PERMANENT MEASURES TO RESTORE SUPPORT. THE METHODS USED SHALL BE BASED ON CONDITIONS TO BE DETERMINED BY THE UTILITY.
 - WHERE THE DEPTH OF EXCAVATION FOR THE PROPOSED WORK IS GREATER THAN FIVE (5) FEET, THE CONTRACTOR SHALL SHEET AND SHORE THE TRENCH TO CONTINUOUSLY MAINTAIN THE SUPPORT OF ELECTRIC FACILITIES AT LOCATION WHERE THE ELECTRIC FACILITIES ARE WITHIN THE ZONE OF INFLUENCE ADJACENT TO THE EXCAVATION AS DETERMINED BY THE NATURAL ANGLE OF REPOSE OF THE SOIL.
 - ALL DAMAGE TO ELECTRIC FACILITIES AND SERVICES REQUIRING ADJUSTMENTS, RELOCATION AND/OR REPAIRS WILL BE MADE AT CONTRACTOR'S COST.
- CONTRACTOR SHALL NOT BACK FILL EXPOSED ELECTRIC FACILITIES UNTIL THE COMPANY HAS INSPECTED IT'S FACILITY OR PERFORMED ANY ADJUSTMENTS AND/OR MAINTENANCE THAT MAY BE REQUIRED.

NOTE: SHOULD CONTRACTOR DAMAGE ELECTRIC FACILITIES, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DUKE ENERGY CALL CENTER AT (513)421-9500. CONTRACTOR SHALL KEEP EVERYONE CLEAR OF DAMAGED ELECTRIC FACILITIES UNTIL COMPANY PERSONNEL ARRIVE AT THE WORK SITE.

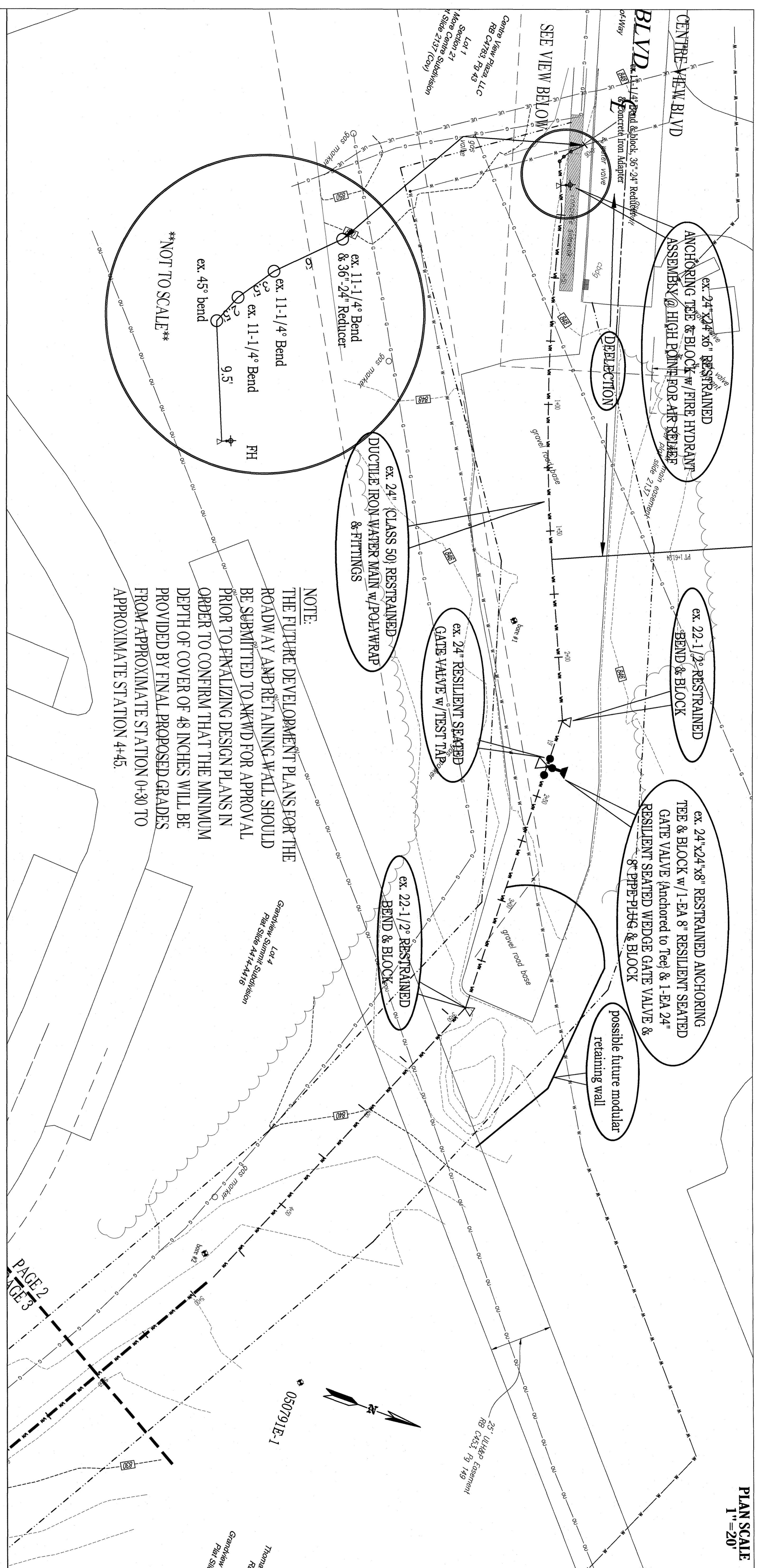


SHEET INDEX

- | | |
|-----|---------------------------|
| 1 | TITLE SHEET/GENERAL NOTES |
| 2-7 | PLAN PROFILE |
| 8 | DETAIL |

* ALL SUBMITTALS MAY NOT INCLUDE ENTIRE SET OF DRAWINGS

VIOX & VIOX
Civil Engineers, Surveyors, and Landscape Architects
466 Erlanger Road • Erlanger, Kentucky 41018
Ph (859) 727-3293 • Fax (859) 727-8452 • www.vioxinc.com

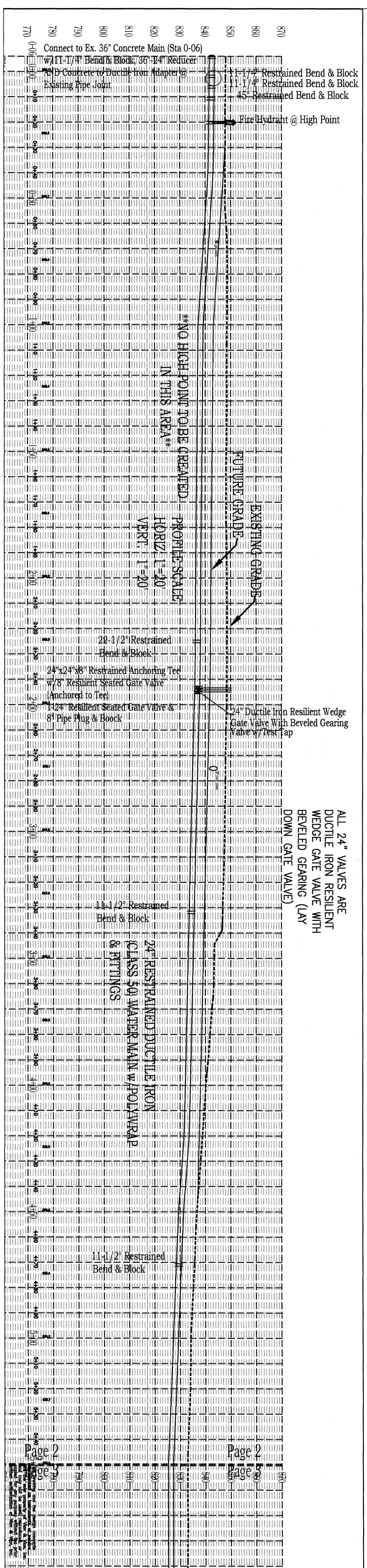


PLAN SCALE
1"=20'

ALL 24" VALVES ARE
DUCTILE IRON RESILIENT
WEDGE GATE VALVE WITH
BEVELED GEARING (LAY
DOWN GATE VALVE)

NOTE:
THE FUTURE DEVELOPMENT PLANS FOR THE
ROADWAY AND RETAINING WALL SHOULD
BE SUBMITTED TO AKWD FOR APPROVAL
PRIOR TO FINALIZING DESIGN PLANS IN
ORDER TO CONFIRM THAT THE MINIMUM
DEPTH OF COVER OF 48 INCHES WILL BE
PROVIDED BY FINAL PROPOSED GRADES
FROM APPROXIMATE STATION 0+30 TO
APPROXIMATE STATION 4+45.

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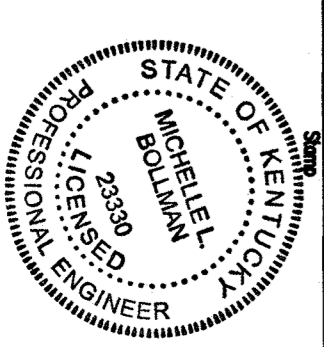
NO HIGH POINT TO BE CREATED
IN THIS AREA

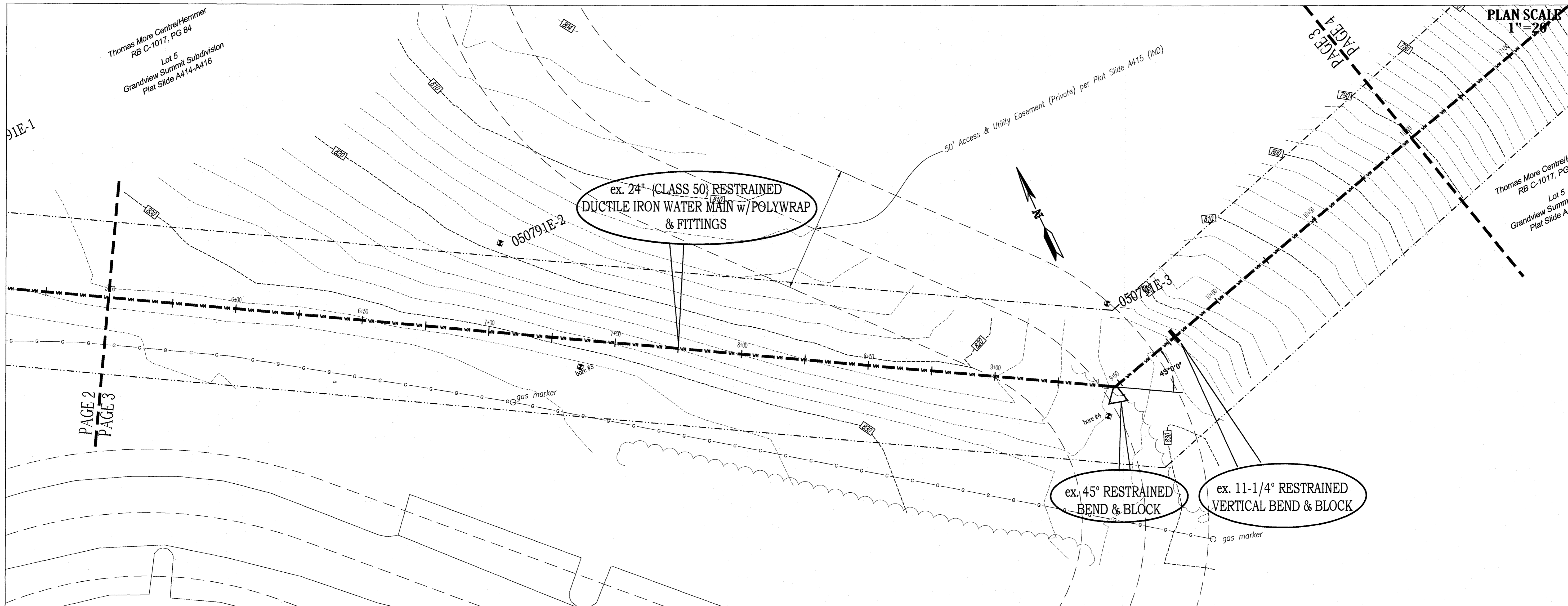
22-1/2" Restrainted
Bend & Block
24"x24"x8" Restrainted Anchoring Tee
8" Resilient Seated Gate Valve
(Anchored to Tee)
12" Resilient Seated Gate Valve &
8" Pipe Plug & Block
24" Ductile Iron Resilient Wedge
Gate Valve With Beveled Gearing
(Lay Down Gate Valve)

24" RESTRAINED DUCTILE IRON
CLASS 50 WATER MAIN w/ POLYWRAP
& FITTINGS

11-1/2" Restrainted
Bend & Block

24" CROSS-COUNTRY WATER MAIN REPLACEMENT
Edgewood/Crestview Hills, Kenton Co., Kentucky
AS-BUILT DRAWING

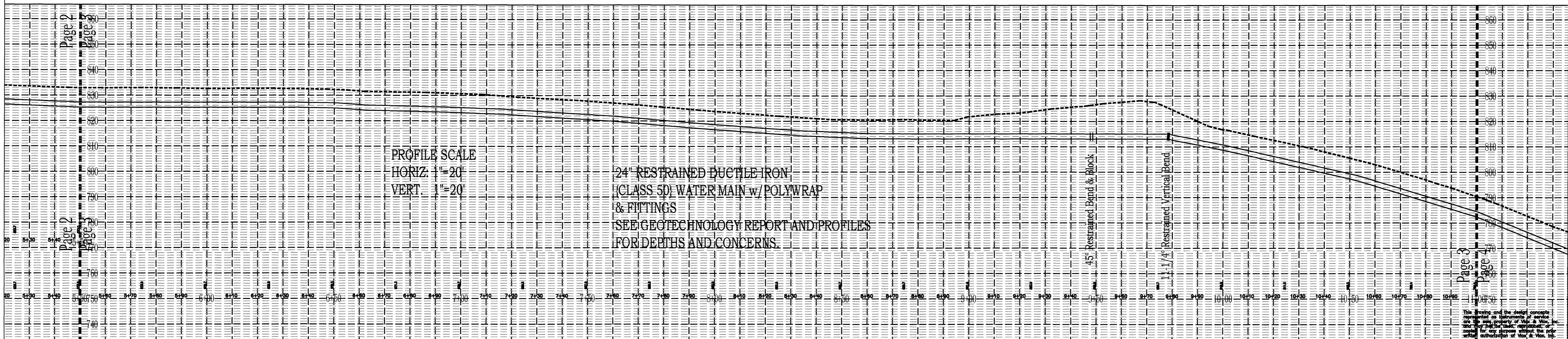




ALL 24" VALVES ARE DUCTILE IRON RESILIENT WEDGE GATE VALVE WITH BEVELED GEARING (LAY DOWN GATE VALVE)

NOTES:
1. WHERE EXISTING CONCRETE WATER MAIN IS SEVERED IT MUST BE PLUGGED. (INCIDENTAL TO PROJECT)

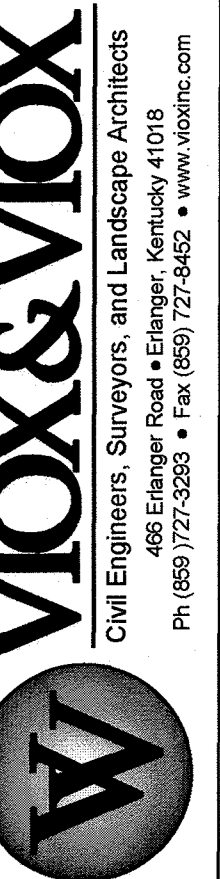
ALL 24" VALVES ARE DUCTILE IRON RESILIENT WEDGE GATE VALVE WITH BEVELED GEARING (LAY DOWN GATE VALVE)



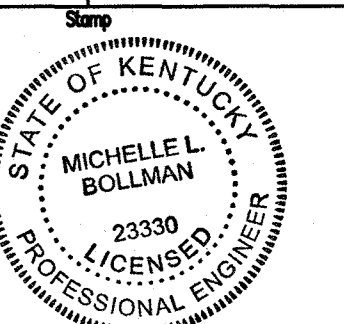
PROFILE SCALE
HORIZ. 1" = 20'
VERT. 1" = 20'

24" RESTRAINED DUCTILE IRON (CLASS 50) WATER MAIN w/ POLYWRAP & FITTINGS
SEE GEG TECHNOLOGY REPORT AND PROFILES FOR DEPTHS AND CONCERNS.

24" CROSS-COUNTRY WATER MAIN REPLACEMENT
Edgewood/Crestview Hills, Kenton Co., Kentucky
AS-BUILT DRAWING



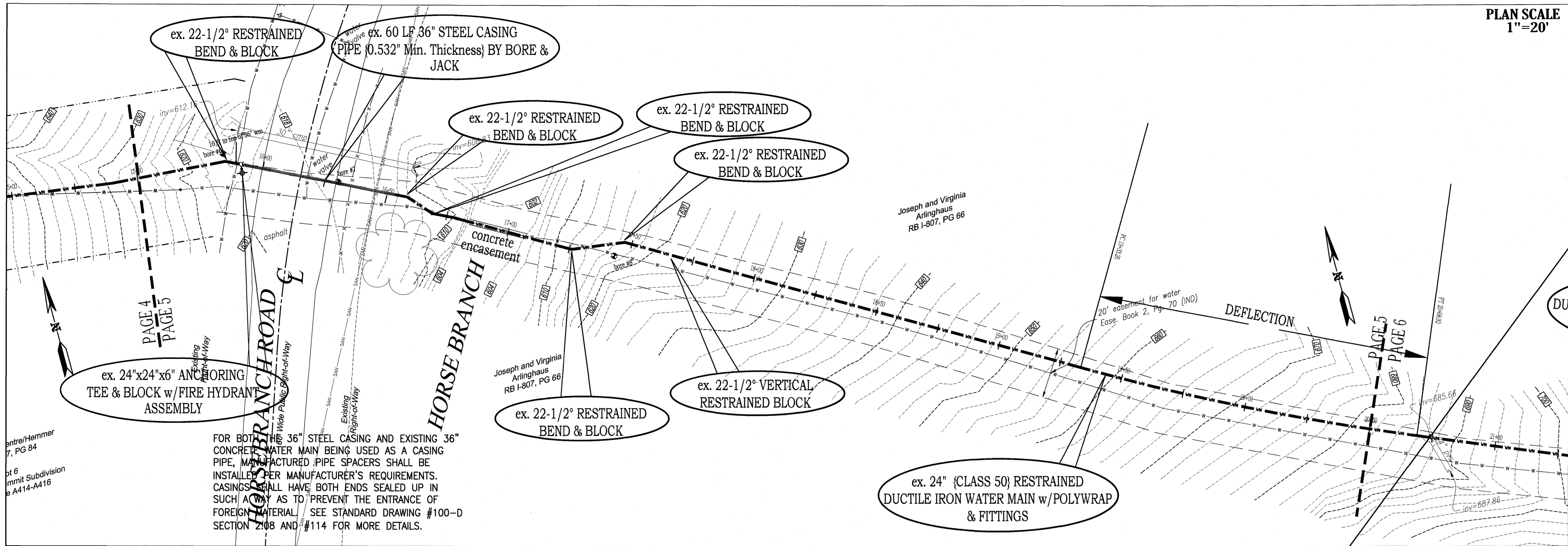
VIOX & VIOX
Civil Engineers, Surveyors, and Landscape Architects
405 Erlanger Road • Erlanger, Kentucky 41018
Ph: (609) 727-3283 • Fax: (609) 727-8462 • www.viox.com



DESIGNED BY: JHW/mae
SCALE: AS SHOWN
DATE: 1/09/2020

PROJECT NO: 100-515-004
DRAWING: 2015 Edgewood 24 Inch Cross Country WMM (1304A)
Engineered by: W. J. Viox, Inc., 2424 Cross Country Man
Professional Engineer of West Virginia

P:\NKWD (00)\JMD-EDGEWOOD 24-INCH CROSS-COUNTRY W.M. (D004)\Engineering\DWG-as-built\AS-BUILT-24inch-Cross-Country Main.dwg, 1/09/2020 9:06:15 AM, DWG, 10 PLOT, PC3



PLAN SCALE
1"=20'

NOTES:
1. WHERE EXISTING CONCRETE WATER MAIN IS SEVERED IT MUST BE PLUGGED. (INCIDENTAL TO PROJECT)

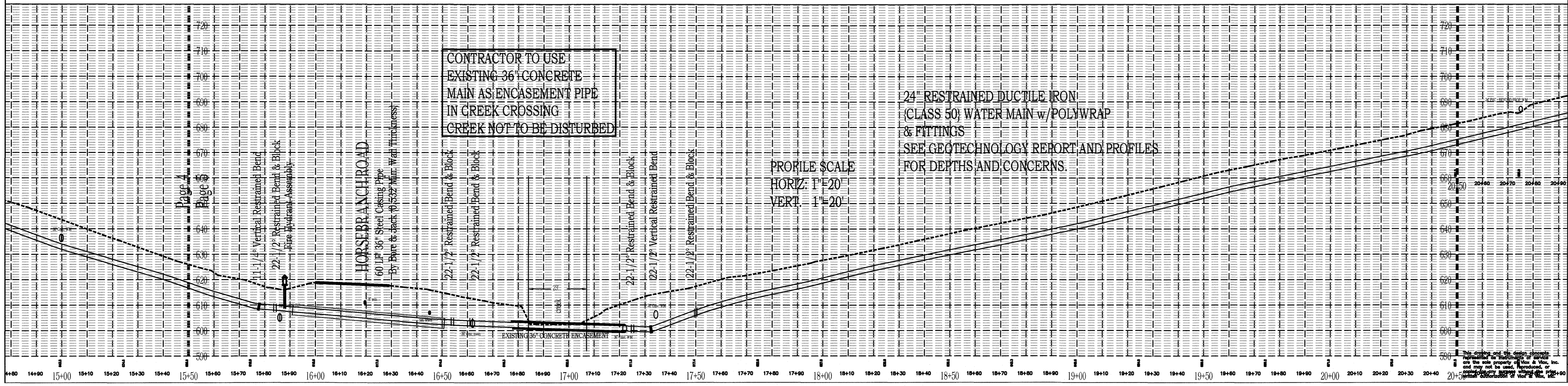
ALL 24" VALVES ARE DUCTILE IRON RESILIENT WEDGE GATE VALVE WITH BEVELED GEARING (LAY DOWN GATE VALVE)

FOR BOTH THE 36" STEEL CASING AND EXISTING 36" CONCRETE WATER MAIN BEING USED AS A CASING PIPE, MANUFACTURED PIPE SPACERS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. CASINGS SHALL HAVE BOTH ENDS SEALED UP IN SUCH A WAY AS TO PREVENT THE ENTRANCE OF FOREIGN MATERIAL. SEE STANDARD DRAWING #100-D SECTION 2.08 AND #114 FOR MORE DETAILS.

FOR BOTH THE 36" STEEL CASING AND EXISTING 36" CONCRETE WATER MAIN BEING USED AS A CASING PIPE, MANUFACTURED PIPE SPACERS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. CASINGS SHALL HAVE BOTH ENDS SEALED UP IN SUCH A WAY AS TO PREVENT THE ENTRANCE OF FOREIGN MATERIAL. SEE STANDARD DRAWING #100-D SECTION 2.08 AND #114 FOR MORE DETAILS.

WHEN SEVERING 36" CONCRETE PIPE PLUG AND BLOCK TO PREVENT DISCHARGE OF TREATED WATER TO HORSEBRANCH CREEK

ALL 24" VALVES ARE DUCTILE IRON RESILIENT WEDGE GATE VALVE WITH BEVELED GEARING (LAY DOWN GATE VALVE)

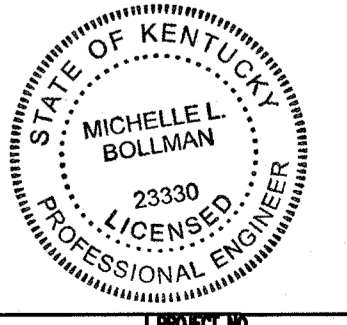
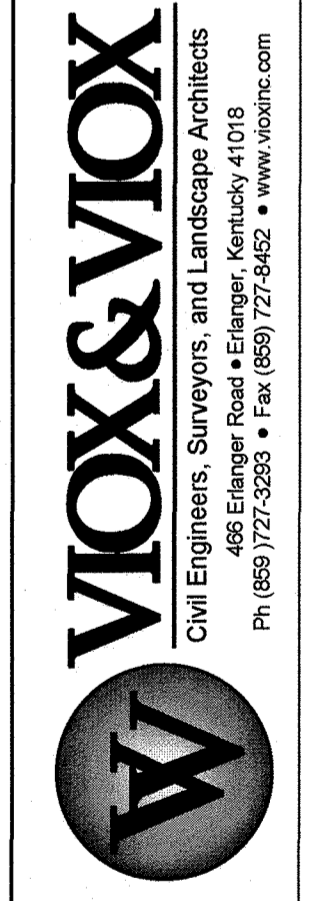


CONTRACTOR TO USE
EXISTING 36" CONCRETE
MAIN AS ENCASMENT PIPE
IN CREEK CROSSING
CREEK NOT TO BE DISTURBED

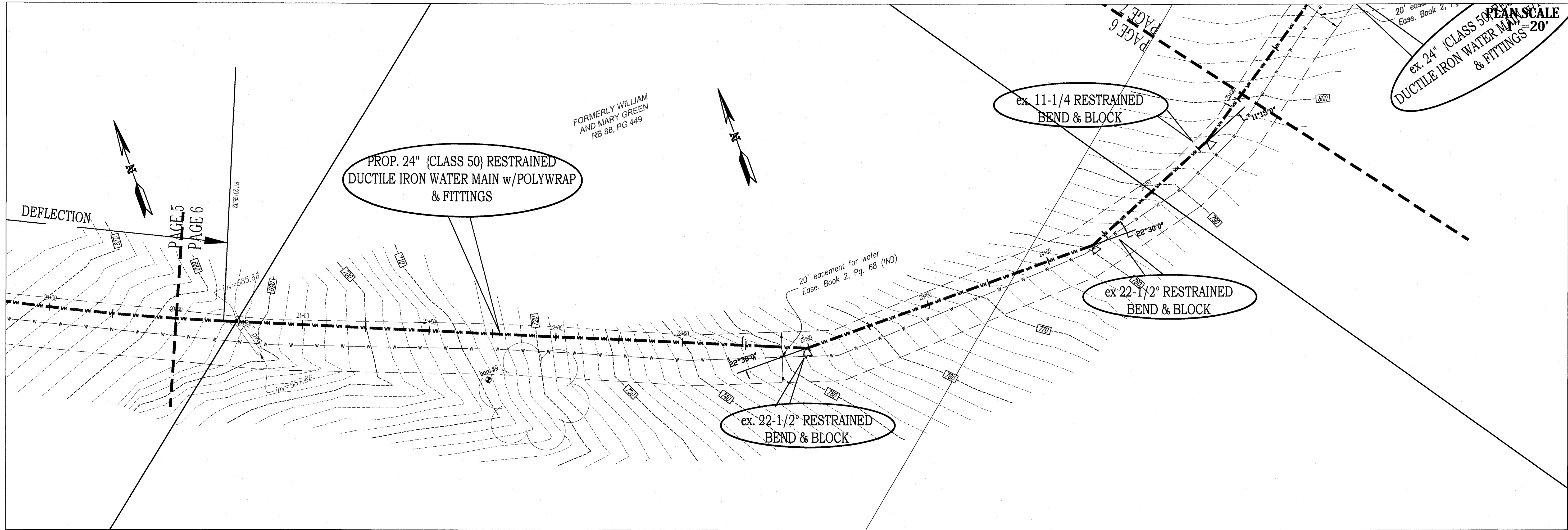
24" RESTRAINED DUCTILE IRON
(CLASS 50) WATER MAIN w/POLYWRAP
& FITTINGS
SEE GEOTECHNOLOGY REPORT AND PROFILES
FOR DEPTHS AND CONCERNS.

PROFILE SCALE
HORIZ: 1"=20'
VERT: 1"=20'

24" CROSS-COUNTRY WATER MAIN REPLACEMENT
Edgewood/Crestview Hills, Kenton Co., Kentucky
AS-BUILT DRAWING



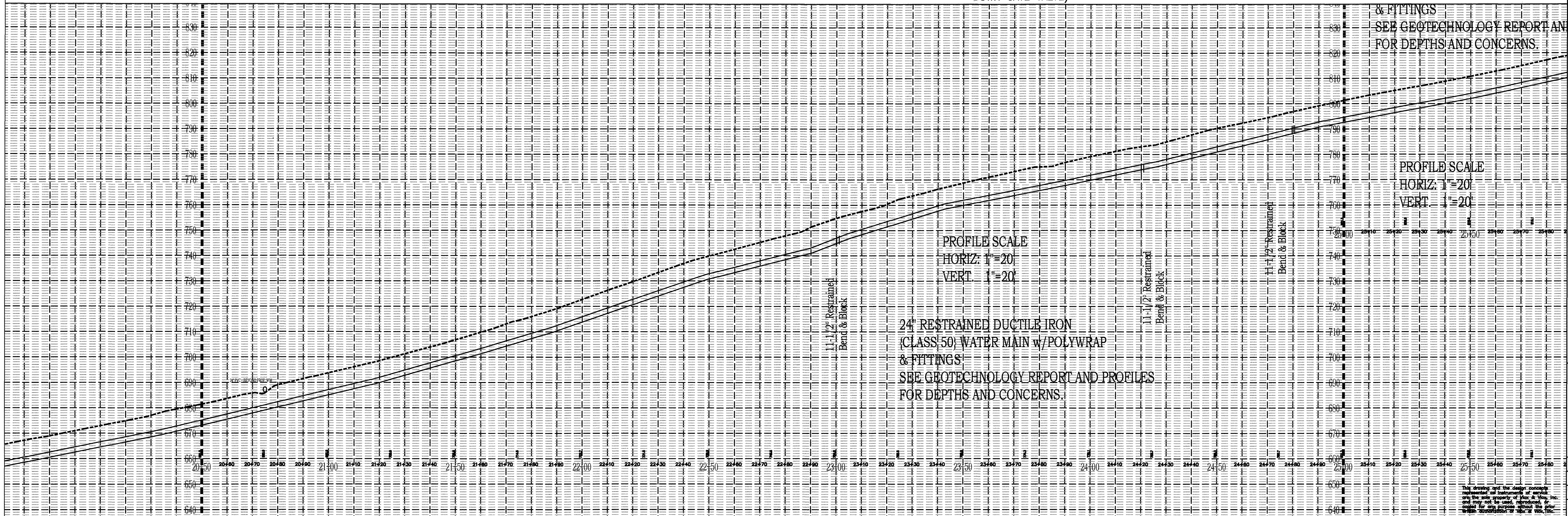
PROJECT NO. 100-515-004
DATE 1/28/2020
SCALE AS SHOWN



NOTES:
 1. WHERE EXISTING CONCRETE WATER MAIN IS SEVERED IT MUST BE PLUGGED. (INCIDENTAL TO PROJECT)

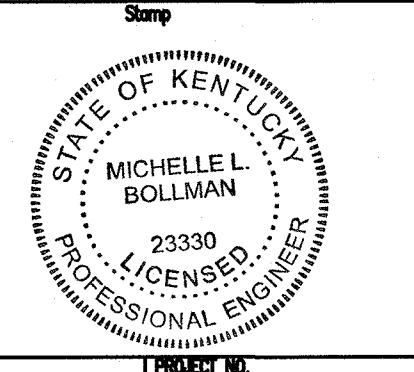
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ALL 24" VALVES ARE DUCTILE IRON RESILIENT WEDGE GATE VALVE WITH BEVELED GEARING (LAY DOWN GATE VALVE)

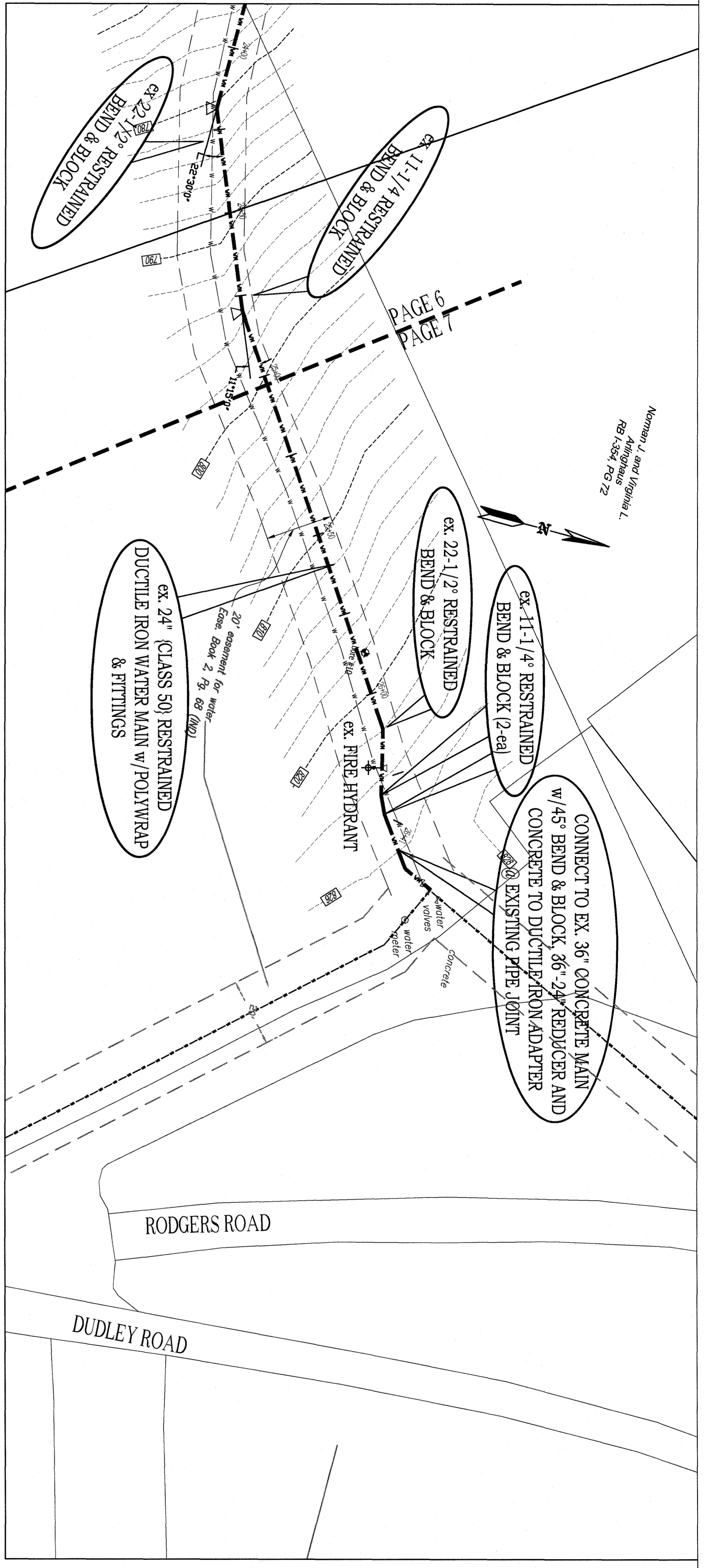


24" CROSS-COUNTRY WATER MAIN REPLACEMENT
 Edgewood/Crestview Hills, Kenton Co., Kentucky
 AS-BUILT DRAWING

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 Civil Engineers, Surveyors, and Landscape Architects
 Ph: (606) 727-5233 • Fax: (606) 727-5462 • www.wiox.com



DATE	1/09/2020
SCALE	AS SHOWN
DRAWING	2015-Edgewood 24 Inch Cross-Country Water Main
PROJECT NO.	100-515-004
DESIGNER	JHV/mse



Norman J. and Virginia L. Adkins
RB 1.354, PG 72

PAGE 6
PAGE 7

CONNECT TO EX. 36" CONCRETE MAIN w/45° BEND & BLOCK, 36"-24" REDUCER AND CONCRETE TO DUCTILE IRON ADAPTER AND EXISTING PIPE JOINT

ex. 11-1/4" RESTRAINED BEND & BLOCK (2-eal)

ex. 22-1/2" RESTRAINED BEND & BLOCK

ex. 24" (CLASS 50) RESTRAINED DUCTILE IRON WATER MAIN w/ POLYWRAP & FITTINGS

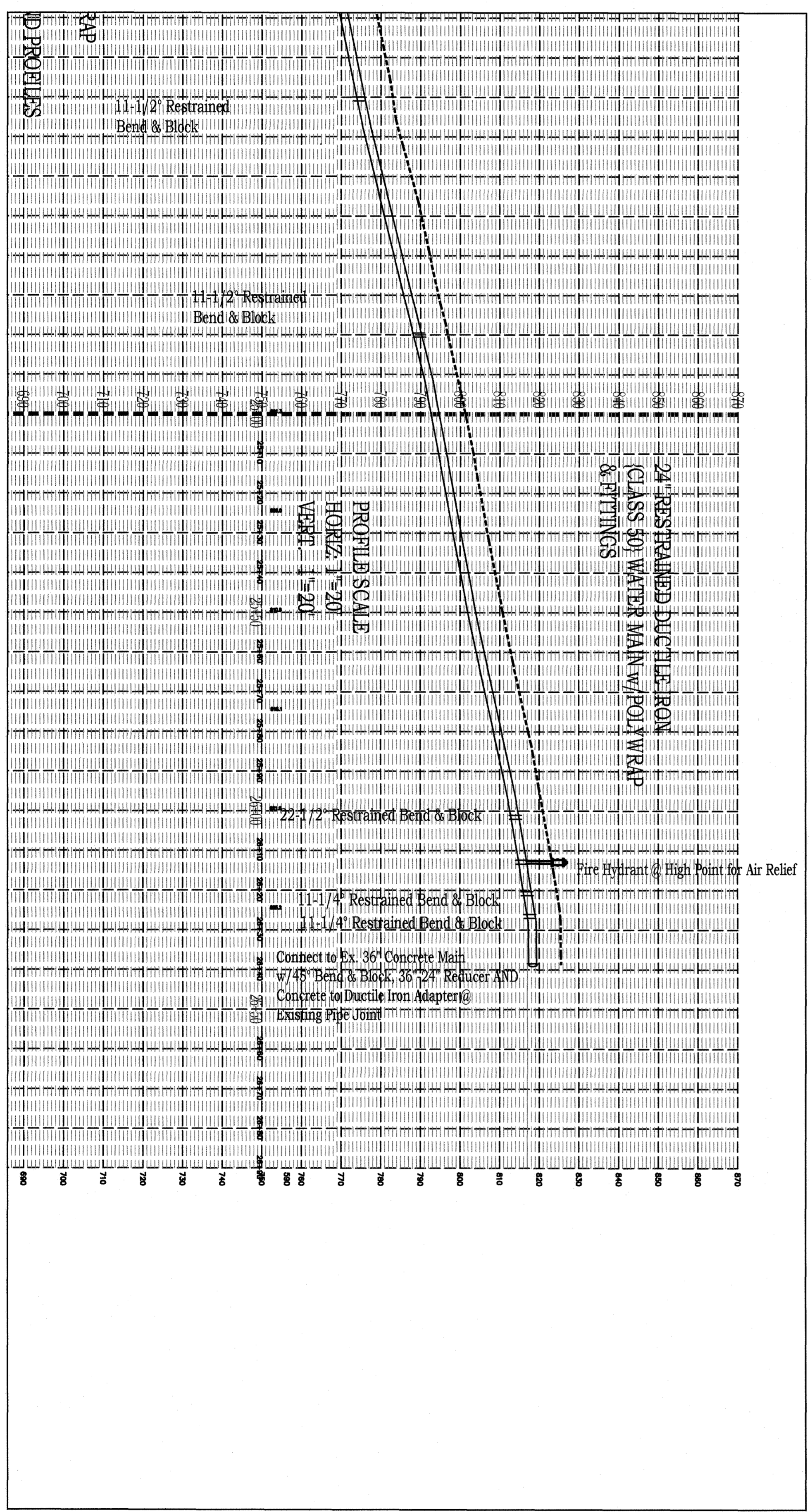
ex. 22-1/2" RESTRAINED BEND & BLOCK

ex. 11-1/4" RESTRAINED BEND & BLOCK

20' easement for water
Eas. Book 2, Pg. 88, 89 (100)

RODGERS ROAD

DUDLEY ROAD



24" RESTRAINED DUCTILE IRON (CLASS 50) WATER MAIN w/ POLYWRAP & FITTINGS

PROFILE SCALE
HORIZ. 1"=20'
VERT. 1"=20'

11-1/2" Restrained Bend & Block

11-1/2" Restrained Bend & Block

22-1/2" Restrained Bend & Block

11-1/4" Restrained Bend & Block

11-1/4" Restrained Bend & Block

Fire Hydrant & High Point for Air Relief

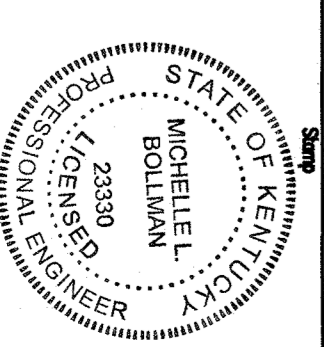
Connect to Ex. 36" Concrete Main w/45° Bend & Block, 36"-24" Reducer AND Concrete to Ductile Iron Adapter @ Existing Pipe Joint

PLAN SCALE
1"=20'

NOTES:
1. WHERE EXISTING CONCRETE WATER MAIN IS SPURRED, IT MUST BE PLUGGED. (INCIDENTAL TO PROJECT)

ALL 24" VALVES ARE DUCTILE IRON RESILIENT WEDGE GATE VALVE WITH BEVELED GEARING (LAY DOWN GATE VALVE)

24" CROSS-COUNTRY WATER MAIN REPLACEMENT
Edgewood/Crestview Hills, Kenton Co., Kentucky
AS-BUILT DRAWING



DATE: 10/25/20
SCALE: AS SHOWN
PROJECT: 2015-EDGEWOOD 24-INCH CROSS-COUNTRY WATER MAIN
DRAWN BY: JAS/STW
CHECKED BY: JAS/STW
DATE: 10/25/20
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