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MORGAN COUNTY WATER DISTRICT

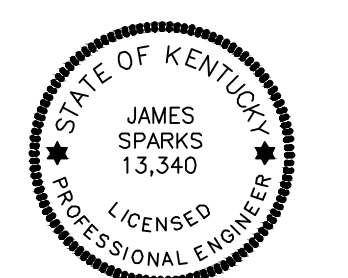
**WATERLINE REPLACEMENT - PHASE 2
KY 191**

MORGAN COUNTY, KENTUCKY

**FUNDED BY:
KENTUCKY INFRASTRUCTURE AUTHORITY**

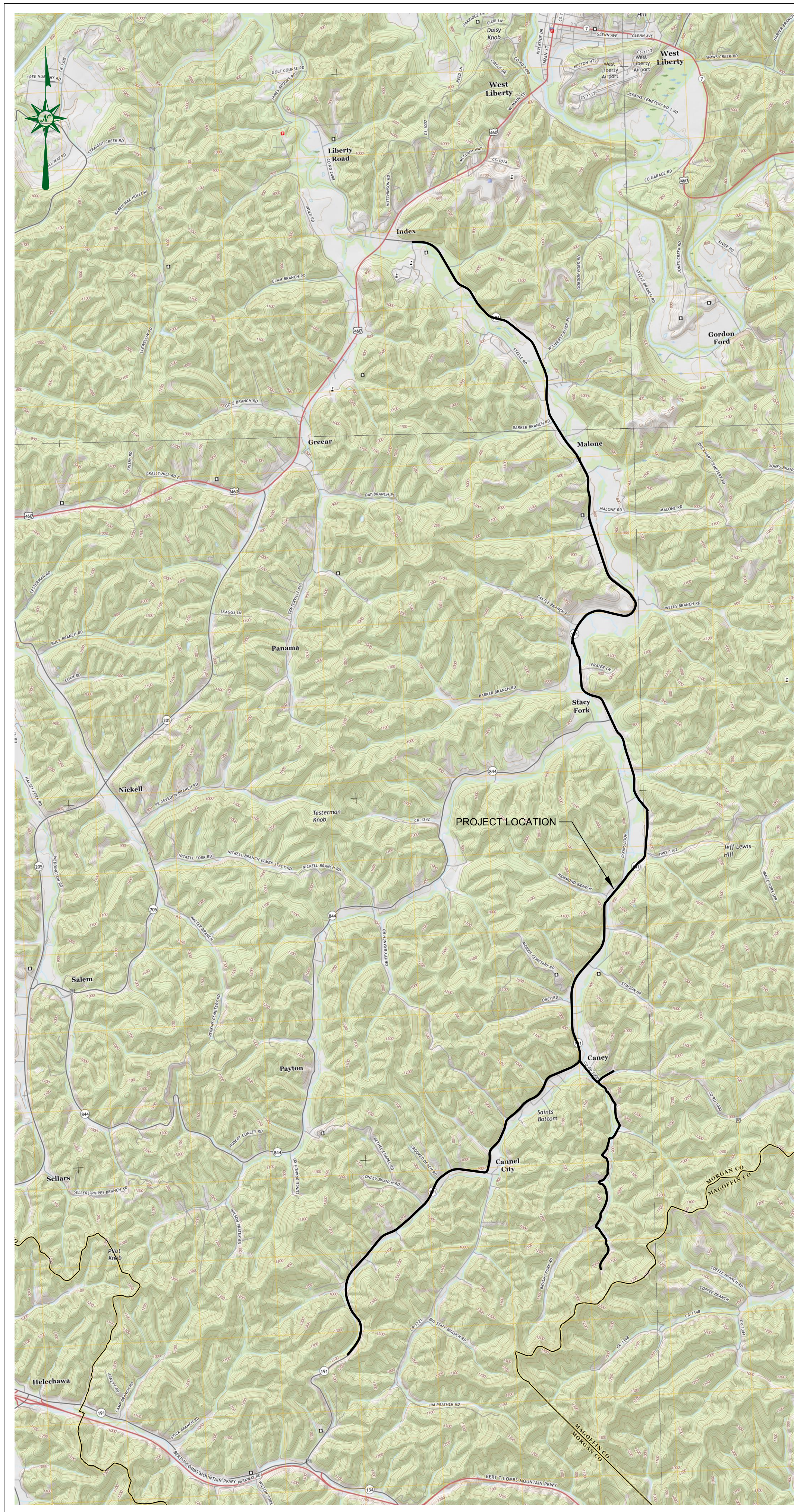
APRIL, 2022

**BOARD OF DIRECTORS
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CURTIS POITZ, VICE PRESIDENT
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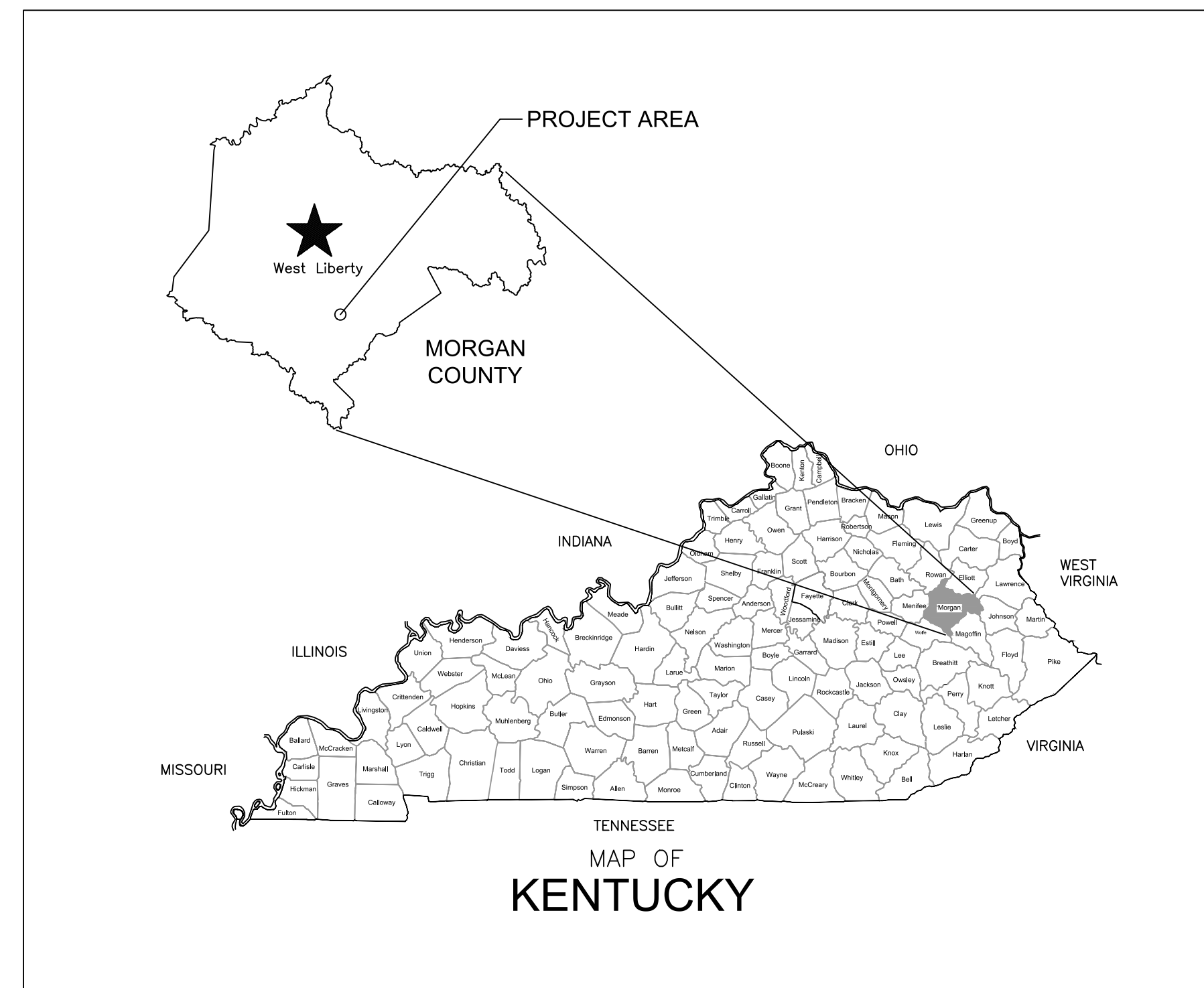


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VICINITY MAP



GENERAL NOTES:

- DIMENSIONS OF EXISTING STRUCTURES, EQUIPMENT, ETC. SHALL BE FIELD CONFIRMED BY THE CONTRACTOR. WHERE CRITICAL DIMENSIONS FOR INSTALLATION OF PROPOSED EQUIPMENT ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL CONFIRM THESE DIMENSIONS FOR ACTUAL EQUIPMENT FURNISHED. ALL KNOWN DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- THE CONTRACTOR SHALL USE ALL POSSIBLE CARE DURING EXCAVATION ON THIS PROJECT SO AS NOT TO DISTURB ANY EXISTING UTILITY WHETHER SHOWN ON PLANS OR NOT. ANY UTILITY DISTURBED OR DAMAGED BY THE CONTRACTOR DURING HIS CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITY TO THE AREA WITHIN EXISTING EASEMENTS AND CONSTRUCTION LIMITS, UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER.
- THE CONTRACTOR WILL BE SOLELY LIABLE FOR ANY WORK HE PERFORMS OUTSIDE OF LEGAL EASEMENTS OR CONSTRUCTION LIMITS.
- THE CONTRACTOR MUST CONTACT ALL UTILITY OWNERS AND HAVE THEM FIELD LOCATE THEIR EXISTING LINES PRIOR TO ANY CONSTRUCTION ACTIVITY.
- EFFORTS HAVE BEEN MADE TO INDICATE ACCURATE LOCATIONS OF SOME EXISTING STRUCTURES, PIPING AND UTILITIES. HOWEVER THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND OTHER EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN INFORMATION DEPICTED BY THE CONSTRUCTION DRAWINGS AND ACTUAL FIELD CONDITIONS WHICH WOULD SIGNIFICANTLY ALTER THE DESIGN INTENT OF THE CONSTRUCTION DRAWINGS PRIOR TO COMMENCING HIS CONSTRUCTION OPERATIONS. DIMENSIONS OF EXISTING STRUCTURES AND/OR SITE RESTRICTIONS ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND CONFIRM ALL DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES AND TOPOGRAPHY IN THE FIELD NECESSARY FOR HIS CONSTRUCTION OPERATION.
- THE CONTRACTOR SHALL USE ALL POSSIBLE CARE DURING EXCAVATION ON THIS PROJECT SO AS NOT TO DISTURB OR DAMAGE ANY EXISTING UTILITY OR STRUCTURE NOT SCHEDULED FOR DEMOLITION WHETHER DEPICTED OR NOT IN THE CONSTRUCTION DRAWINGS. ANY DAMAGE TO THE AFORE MENTIONED ITEMS CAUSED DIRECTLY OR INDIRECTLY BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO BEING DAMAGED.
- THE CONTRACTOR SHALL CONTACT AND OBTAIN THE PERMISSION OF SAID UTILITY OWNERS 48 HOURS (MIN.) PRIOR TO ANY CONSTRUCTION ACTIVITY INTERRUPTING OPERATION OF SAID UTILITY.
- UNLESS OTHERWISE NOTED, ALL BURIED PIPES SHALL HAVE 36" (MIN.) COVER AS MEASURED FROM FINISHED GRADE TO THE OUTSIDE SURFACE OF THE PIPE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WORK ALL APPLICABLE DRAWINGS AND THE APPROPRIATE SPECIFICATIONS AS A UNIT. ANY OMISSIONS, DELETIONS, OR CONFLICTS ARISING AS A RESULT OF FAILURE TO INCORPORATE ALL DRAWINGS AND SPECIFICATIONS WHICH APPLY SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDED COST TO THE OWNER.

CONSTRUCTION ON STATE RIGHT-OF-WAY NOTES:

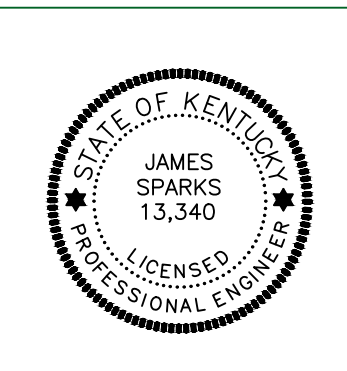
- WATER MAIN/SEWER LINES TO BE CONSTRUCTED WITHIN THE KENTUCKY TRANSPORTATION CABINET RIGHT-OF-WAY. TRENCHES SHALL BE OF A DEPTH SUFFICIENT TO PROVIDE A MINIMUM COVER OF 42" FROM THE EXISTING GROUND SURFACE TO THE TOP OF THE PIPE AND BE LOCATED APPROXIMATELY AS SHOWN UNLESS OTHERWISE NOTED. VALVES AND HYDRANTS SHALL BE LOCATED AT THE BACK OF DITCH, MINIMUM. SEE INDIVIDUAL SHEETS FOR DETAILS.
- ALL BORES UNDER STATE HIGHWAYS RIGHT-OF-WAY SHALL BE A MINIMUM OF 36" DEPTH UNDER BOTTOM OF DITCH LINE TO TOP OF THE PROPOSED BORE AND/OR CASING PIPE ON BOTH SIDES OF THE HIGHWAY.
- ROCK BLASTING: THERE SHALL BE NO BLASTING WITHIN STATE RIGHT-OF-WAY WITHOUT WRITTEN CONSENT FROM THE KENTUCKY TRANSPORTATION CABINET.
- PROTECTION OF EXISTING PAVING: CARE SHALL BE TAKEN BY THE CONTRACTOR TO AVOID CRACKING OR BREAKING THE BITUMINOUS PAVING. ALL DAMAGE TO THE EXISTING PAVING CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. PAVING PROTECTION SHALL BE ACCOMPLISHED BY THE USE OF RUBBER AND STREET PADDED MACHINERY OR OTHER APPROVED EQUIPMENT WELL SUITED FOR THIS TYPE OF CONSTRUCTION.
- BANK AND DITCH PROTECTION EXCAVATION: DURING CONSTRUCTION, ALL EMBANKMENTS, REFILLS AND EXCAVATIONS SHALL BE KEPT SHAPED AND DRAINED BY THE CONTRACTOR. DITCHES AND DRAINS ALONG THE HIGHWAYS SHALL BE MAINTAINED IN SUCH A MANNER AS TO DRAIN EFFECTIVELY AT ALL TIMES.
- PRIVATE ENTRANCE ROAD: ALL ROADWAYS AND DRIVEWAYS WITHIN THE WORK LIMITS OF STATE RIGHT-OF-WAYS SHALL BE REFILLED TO THE NATURAL SURFACE OF THE GROUND WITH APPROVED MATERIAL. THE MATERIAL SHALL BE PLACED AND COMPACTED TO A SMOOTHNESS SUITABLE FOR TRAFFIC. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR MAINTAINING THESE ROADWAYS UNTIL THE RESTORATION IS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL NOTE THAT ALL PRIVATE BUSINESSES AND RESIDENCES ALONG THE ROUTE OF THE PROPOSED WATER MAIN/SEWER LINE CONSTRUCTION MUST HAVE ACCESS TO THEIR PROPERTIES AT ALL TIMES DURING CONSTRUCTION.
- PROTECTION OF EXISTING DRAINAGE CULVERTS: ALL LOCATIONS WHERE THE PROPOSED WATER MAIN/SEWER LINE IS PARALLEL WITH OR CROSSING AN EXISTING STORM SEWER. THE COST OF RELAYING EXISTING CULVERT PIPES OR THE EXTRA DEPTH REQUIRED TO AVOID THE EXISTING CULVERT IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND IS NOT A PAY ITEM.
- SOME EXISTING UTILITIES HAVE NOT BEEN SHOWN: THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE REPRESENTATIVES OF THE VARIOUS UTILITIES WHEN WORKING NEAR ANY EXISTING UTILITY. NO ADDITIONAL PAYMENT TO THE CONTRACTOR WILL BE MADE FOR EXTRA DEPTH REQUIRED TO AVOID ANY EXISTING UTILITY.

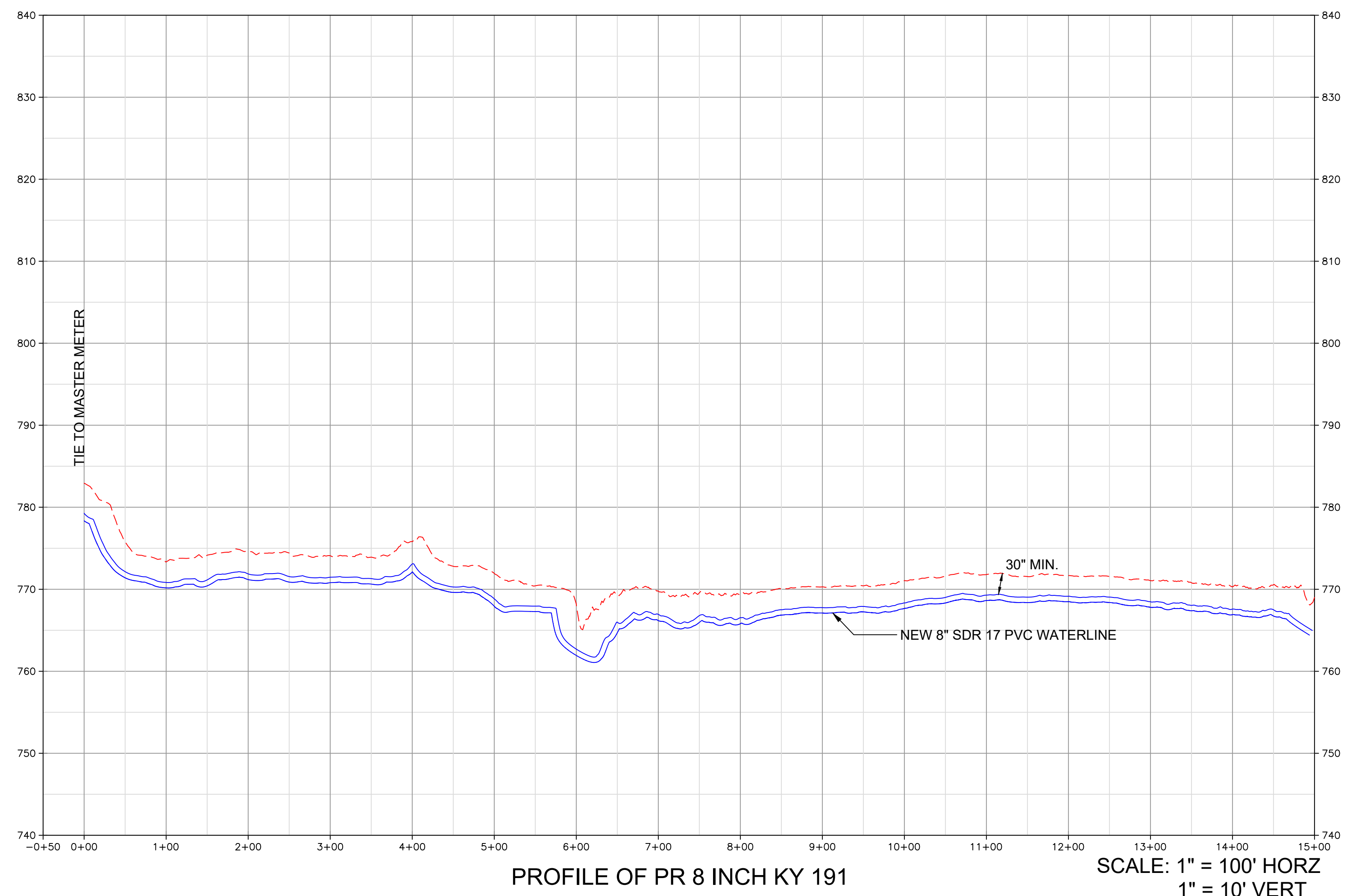
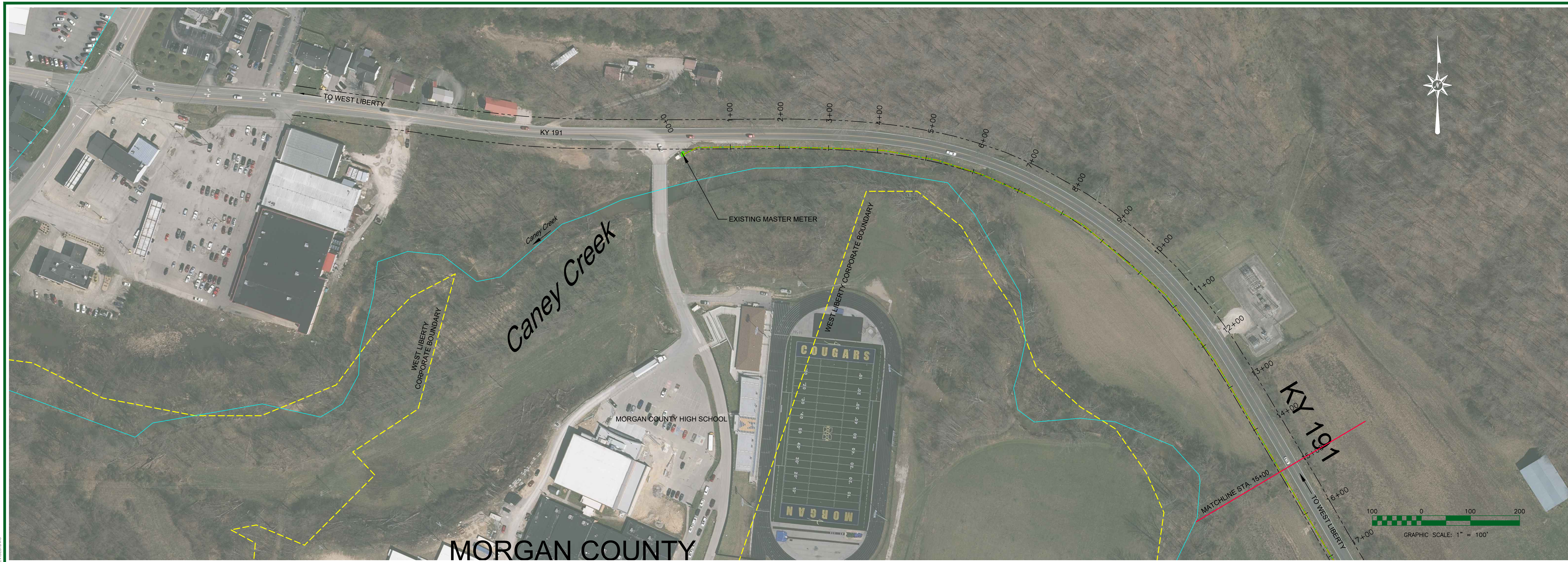


CALL THE KENTUCKY ONE CALL BEFORE DIGGING:
 KENTUCKY UNDERGROUND PROTECTION, INC. 1-800-752-6007 OR
 LOG ONTO WEB SITE: KENTUCKY811.ORG
 A FEDERAL LAW NOW IN EFFECT STATES THAT ANY PERSON WHO ENGAGES IN EXCAVATION
 ACTIVITIES WITHOUT FIRST USING AN AVAILABLE ONE-CALL NOTIFICATION SYSTEM TO DETERMINE
 LOCATIONS OF UNDERGROUND FACILITIES; OR WITHOUT HEEDING LOCATION INFORMATION OR
 MARKINGS AND SUBSEQUENTLY DAMAGES A PIPELINE FACILITY SHALL BE SUBJECT TO A FINE,
 IMPRISONMENT, OR BOTH. THE LAW ALSO STATES THAT OSHA MAY BE NOTIFIED OF ANY ACCIDENT
 CAUSED BY AN EXCAVATOR.
 NATIONAL ONE-CALL REFERRAL NUMBER 1-800-258-0808



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 Lexington, Kentucky
 40507-1016
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 Fax (859) 259-2717

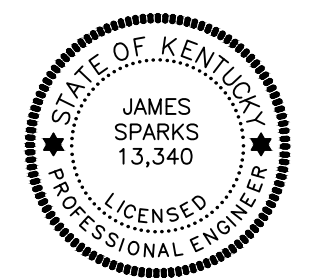



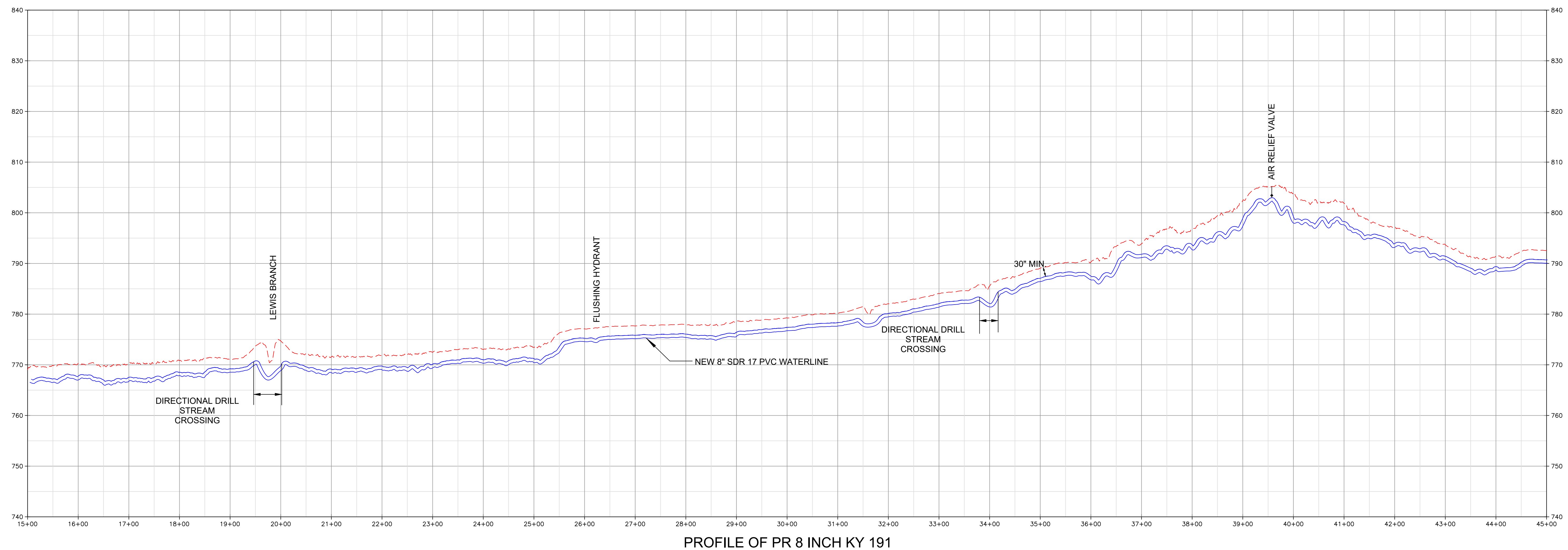


PROFILE OF PR 8 INCH KY 191

SCALE: 1" = 100' HORIZ
1" = 10' VERT

LAST PRINTED ON: 2/20/2022 BY: SPARKS, JAMES H. DRAWING FILE LOCATION: C:\MORGAN COUNTY WATER DISTRICT\119-02 WATERLINE REPLACEMENT PROJECT PHASE 2\1-03 DESIGN\03_WORK\WATERLINE_LAYOUT_FINAL.DWG

| | |
|---|---|
| <p>MORGAN COUNTY WATER DISTRICT 1009 HWY 172, WEST LIBERTY, KY KY 191 PROPOSED 8" WATERLINE STA. 0+00 TO STA. 15+00</p> | <p><small>Professional Engineer</small></p>  <p>nesbitt engineering, inc. <small>providing proven solutions since 1976</small></p> <p>MORGAN COUNTY WATER DISTRICT KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2</p> <p>Drawn by: JCW Date: 2-14-22</p> <p>Job No.: 1191.02 Scale: 1" = 100'</p> |
|  | |
| <p>Sheet No. C-1</p> | |



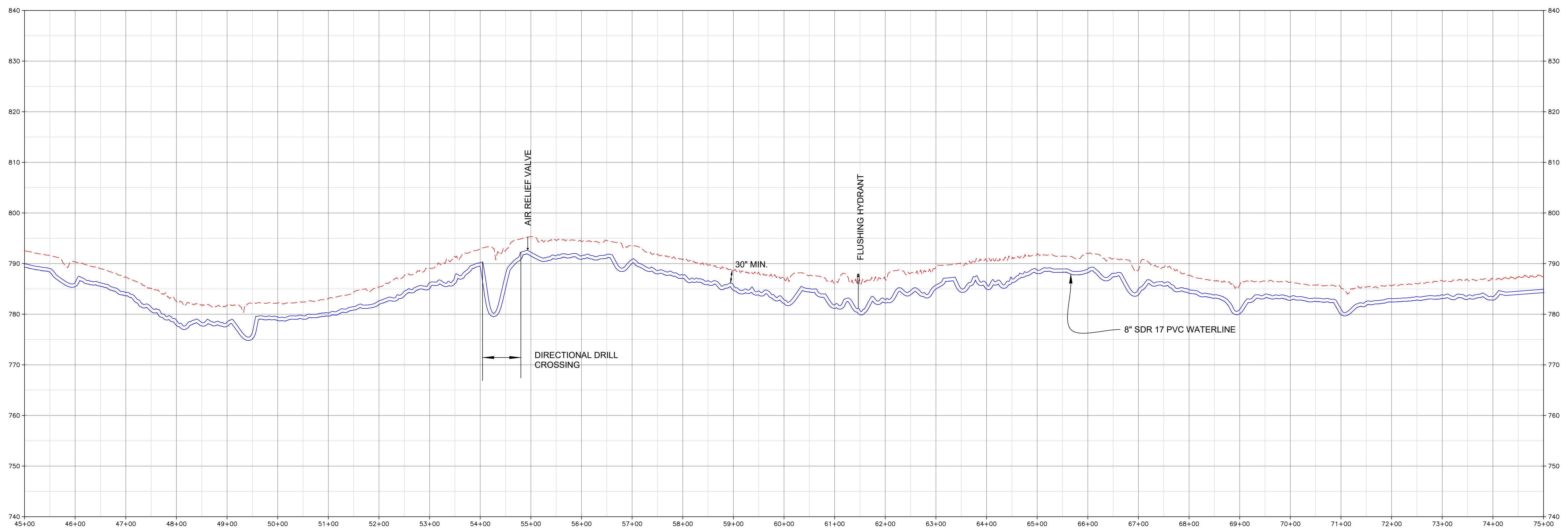
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MORGAN COUNTY WATER DISTRICT
 1009 HWY 172, WEST LIBERTY, KY
 KY 191
PROPOSED 8" WATERLINE
 STA. 15+00 TO STA. 45+00

| | |
|--|------------------|
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| MORGAN COUNTY WATER DISTRICT KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2 | |
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| Job No.: 1191.02 | Date: 2-14-22 |

Sheet No. C-2



PROFILE OF PR 8 INCH KY 191

SCALE: 1" = 100' HORIZ
1" = 10' VERT

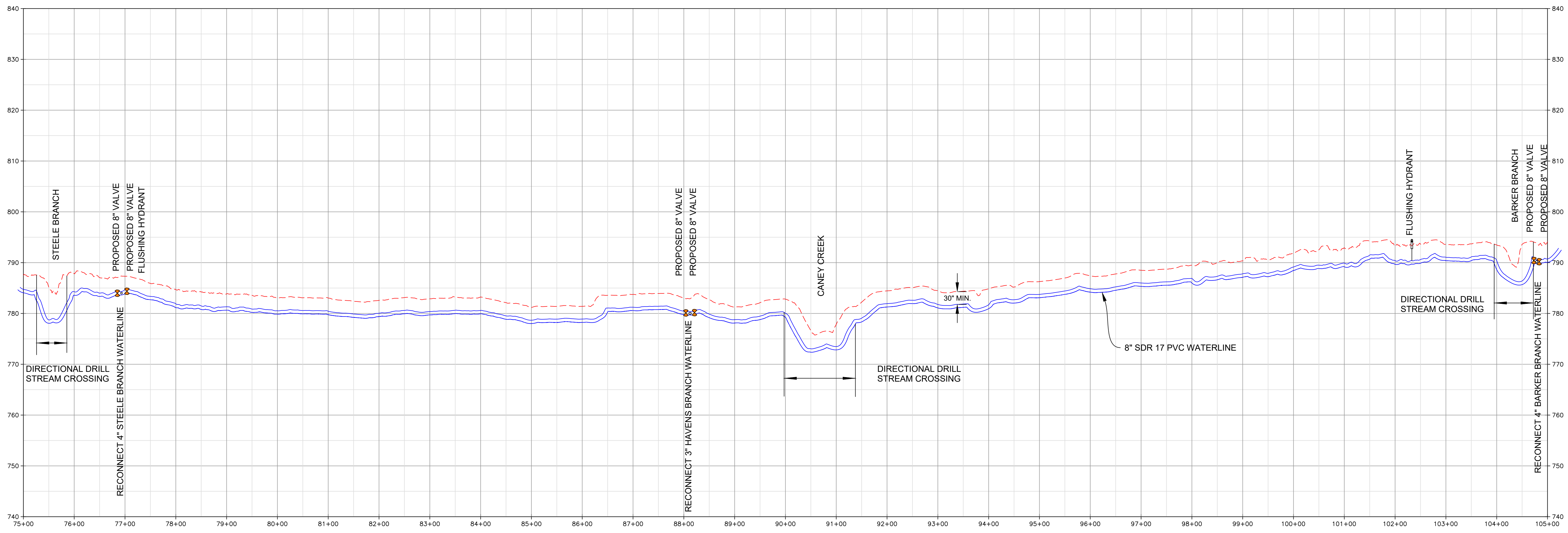
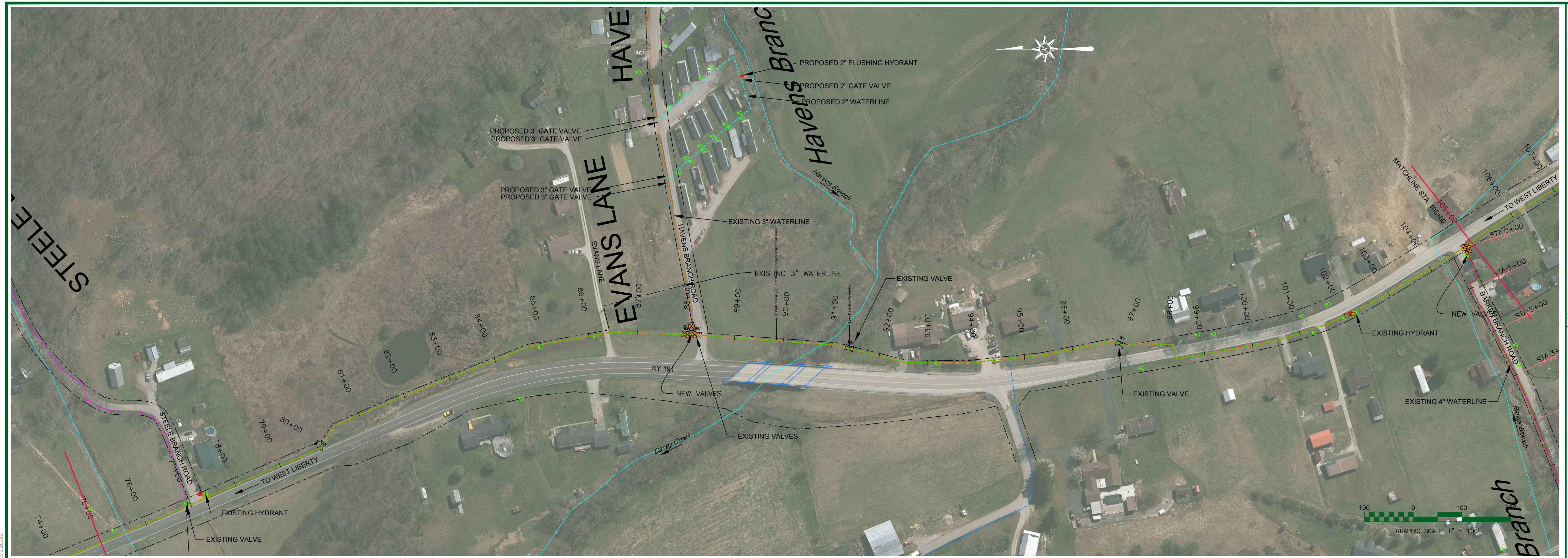
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MORGAN COUNTY WATER DISTRICT
 1009 HWY 172, WEST LIBERTY, KY
 KY 191
 PROPOSED 8" WATERLINE
 STA. 45+00 TO 75+00

STATE OF KENTUCKY
 JAMES SPARKS
 13,340
 LICENSED PROFESSIONAL ENGINEER

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 MORGAN COUNTY WATER DISTRICT
 KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2
 drawn by: JCW
 job no.: 1191.02
 scale: 1" = 100'
 date: 2-14-22

Sheet No. **C-3**

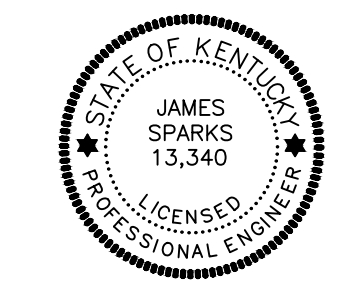


PROFILE OF PR 8 INCH KY 191

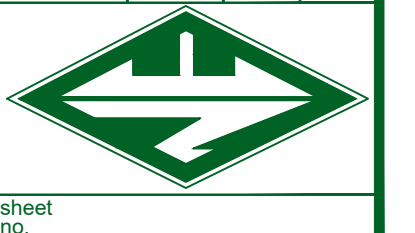
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1" = 10' VERT

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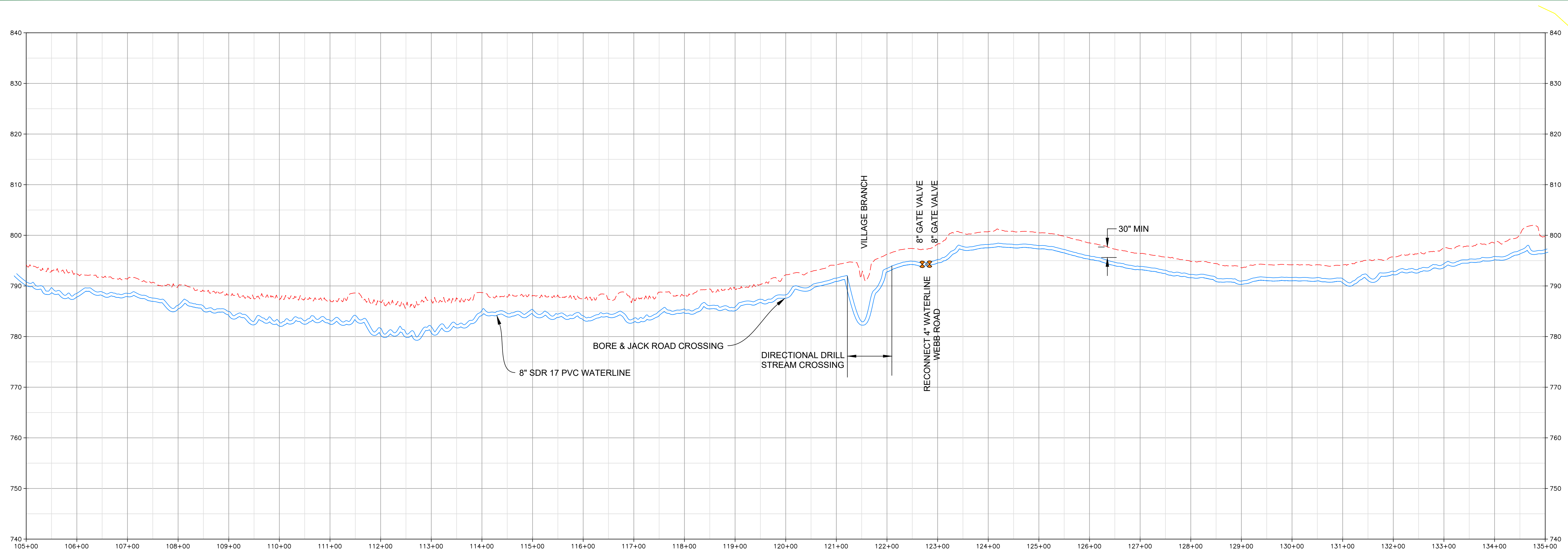
MORGAN COUNTY WATER DISTRICT
 1009 HWY 172, WEST LIBERTY, KY
 KY 191
 PROPOSED 8" WATERLINE
 STA. 75+00 TO STA. 105+00



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 MORGAN COUNTY WATER DISTRICT
 KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2
 Drawn by: JCW
 Job No.: 1191.02
 Date: 2-14-22
 Scale: 1" = 100'



Sheet No. C-4



PROFILE OF PR 8 INCH KY 191

SCALE: 1" = 100' HORZ
1" = 10' VERT

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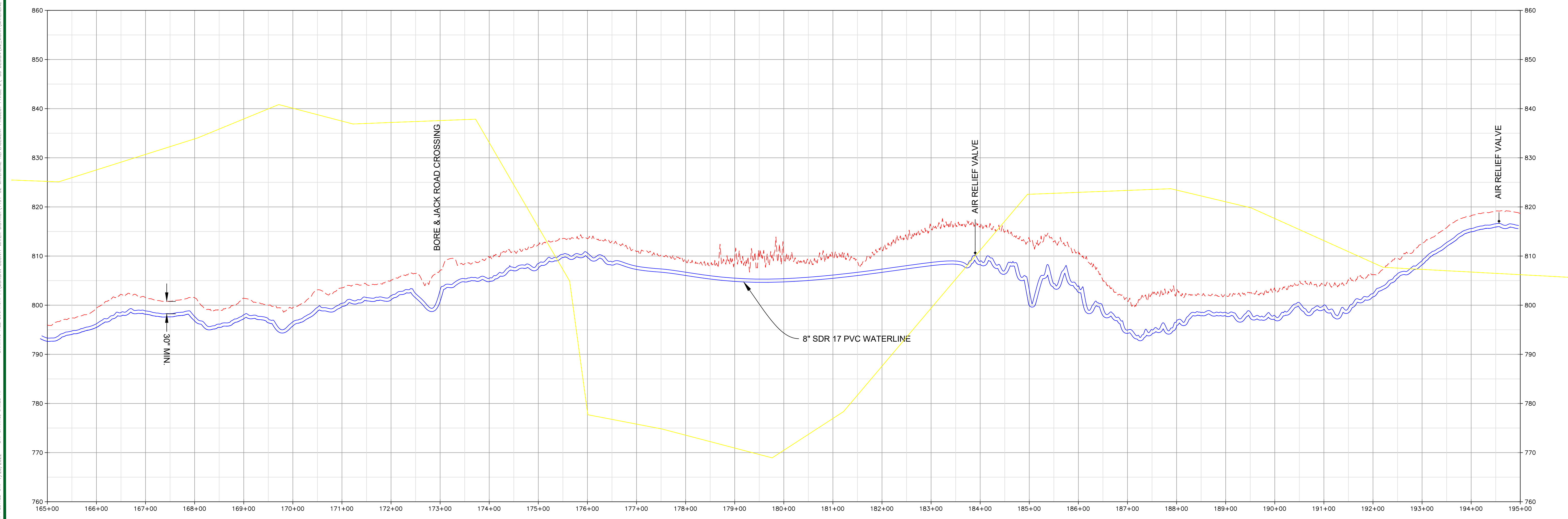
MORGAN COUNTY WATER DISTRICT
1009 HWY 172, WEST LIBERTY, KY
KY 191
PROPOSED 8" WATERLINE
STA. 105+00 TO STA. 135+00

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MORGAN COUNTY WATER DISTRICT
KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2
drawn by: JCW
date: 11/9/02
scale: 1" = 100'

STATE OF KENTUCKY
JAMES SPARKS
13,340
LICENSED PROFESSIONAL ENGINEER

Sheet No. C-5

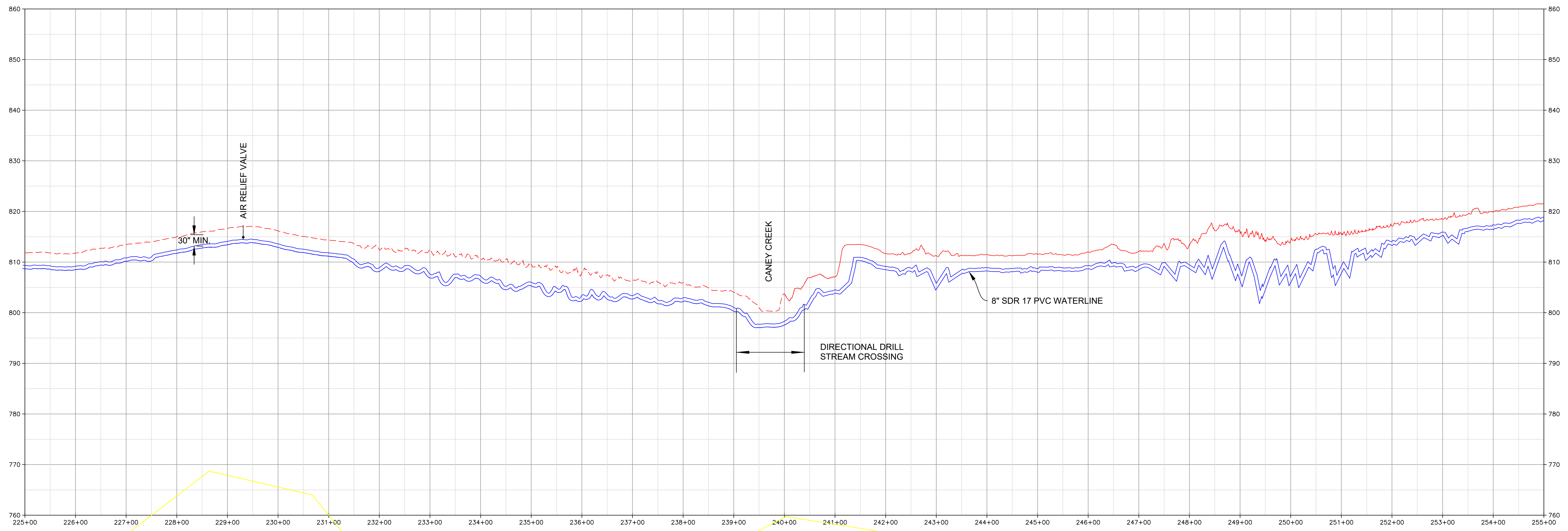


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SCALE: 1" = 100' HORZ
1" = 10' VERT

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| | |
|--|--|
| MORGAN COUNTY WATER DISTRICT 1009 HWY 172, WEST LIBERTY, KY KY 191 PROPOSED 8" WATERLINE STA. 165+00 TO STA. 195+00 | |
| | |
| nesbitt engineering, inc. <small>providing proven solutions since 1976</small> MORGAN COUNTY WATER DISTRICT KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2 Drawn by: JCW Date: 2-14-22 Scale: 1" = 100' | |
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| Sheet No. C-7 | |

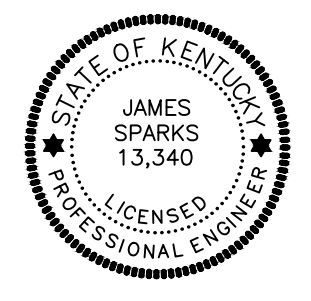


PROFILE OF PR 8 INCH KY 191

SCALE: 1" = 100' HORIZ
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MORGAN COUNTY WATER DISTRICT
 1009 HWY 172, WEST LIBERTY, KY
 KY 191
 PROPOSED 8" WATERLINE
 STA. 225+00 TO STA. 255+00

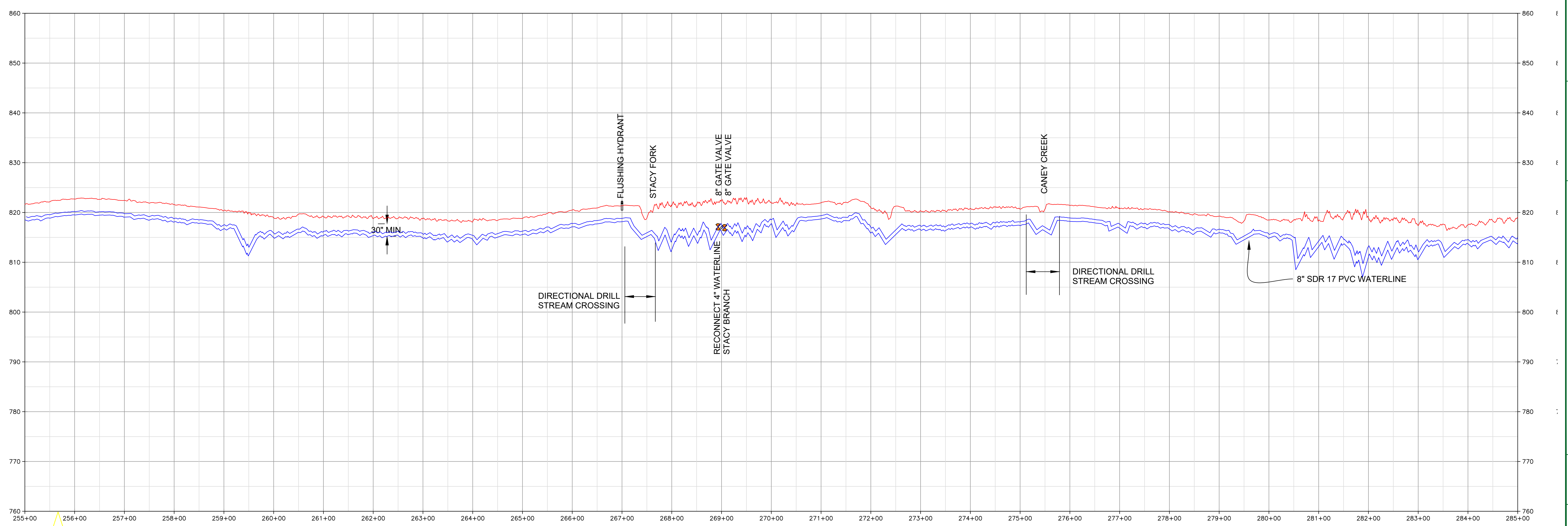


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MORGAN COUNTY WATER DISTRICT
 KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2
 Drawn by: JCW
 Job no.: 1191.02
 Date: 2-14-22
 Scale: 1" = 100'



Sheet No. C-9

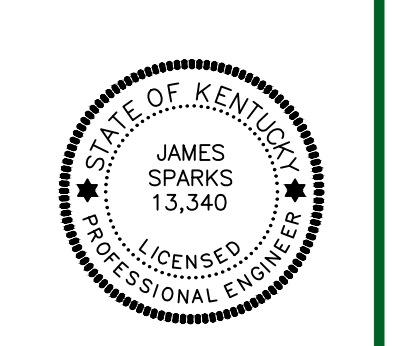


PROFILE OF PR 8 INCH KY 191

SCALE: 1" = 100' HORIZ
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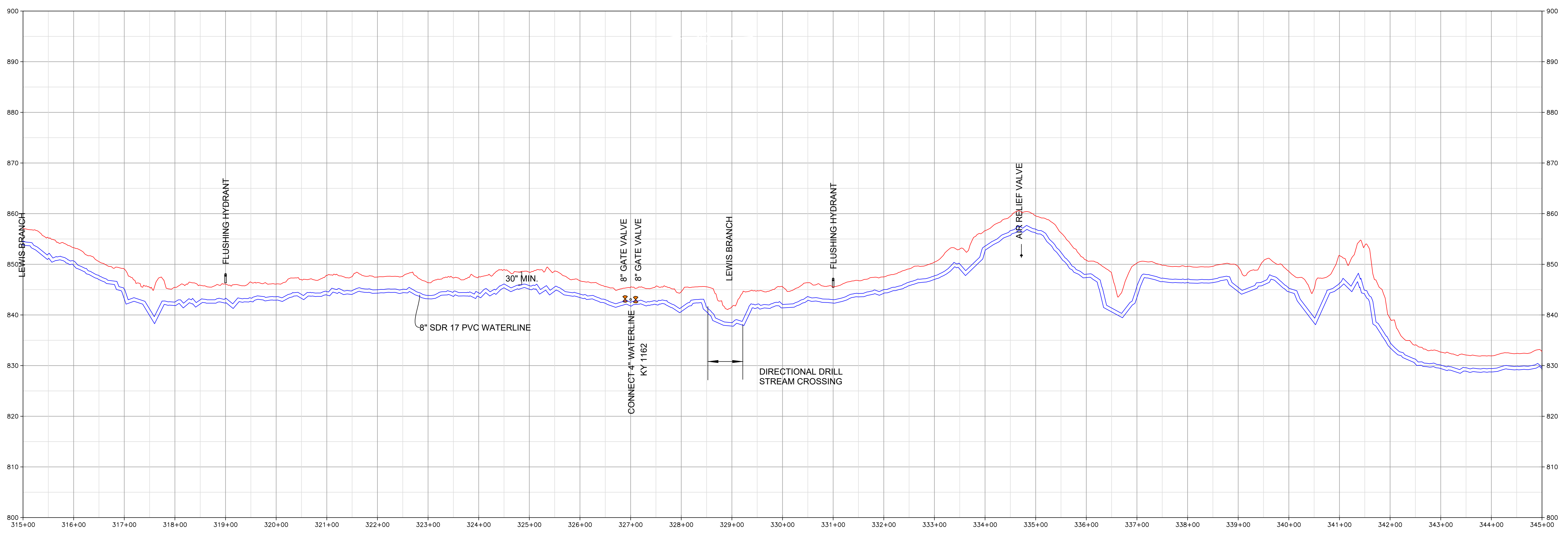
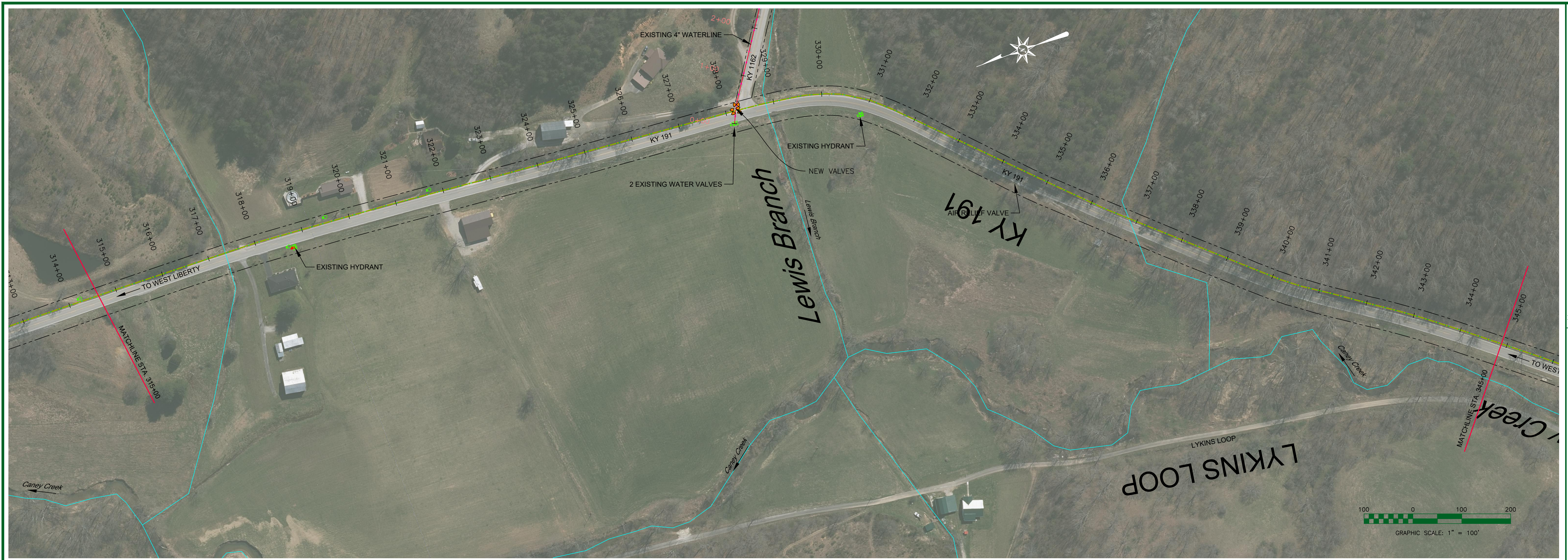
MORGAN COUNTY WATER DISTRICT
1009 HWY 172, WEST LIBERTY, KY
KY 191
PROPOSED 8" WATERLINE
STA. 255+00 TO STA. 285+00



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MORGAN COUNTY WATER DISTRICT
KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2
Drawn by: JCW
Date: 11/9/02
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Date: 2-14-22



Sheet No. C-10



PROFILE OF PR 8 INCH KY 191

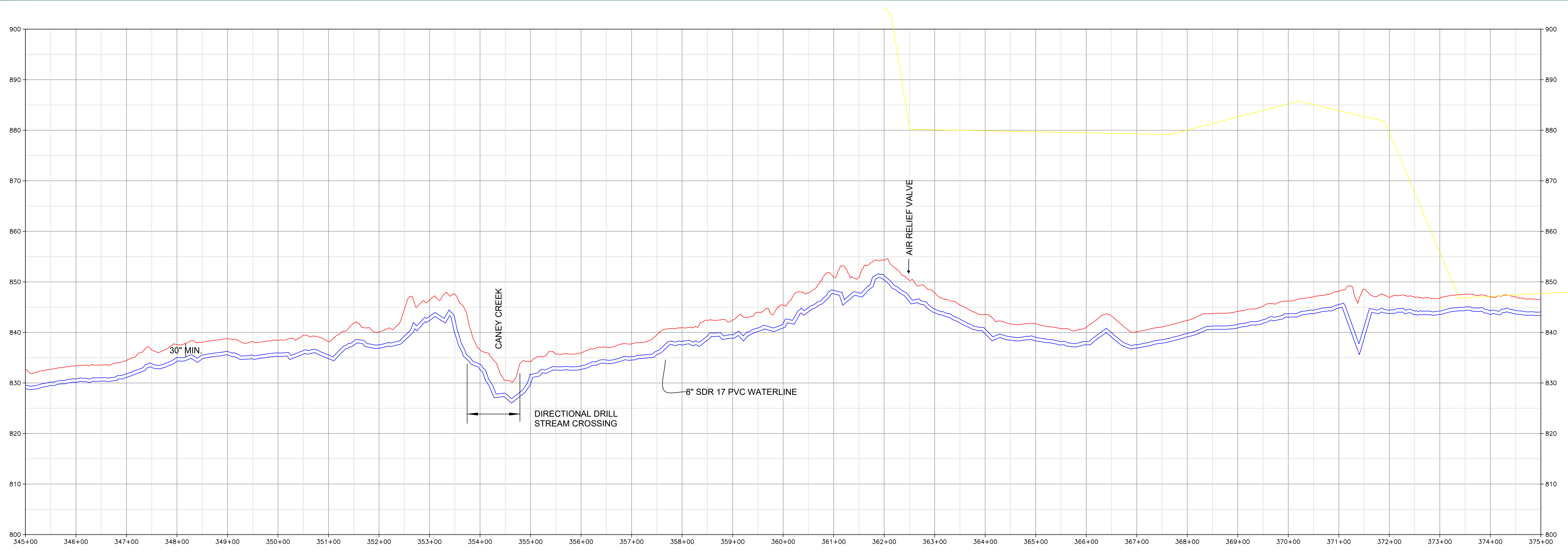
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MORGAN COUNTY WATER DISTRICT
1009 HWY 172, WEST LIBERTY, KY
KY 191
PROPOSED 8" WATERLINE
STA. 315+00 TO STA. 345+00

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 MORGAN COUNTY WATER DISTRICT
 KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2
 Drawn by: JCW Date: 1/19/22 Scale: 1" = 100'
 Date: 2-14-22

Sheet No. **C-12**

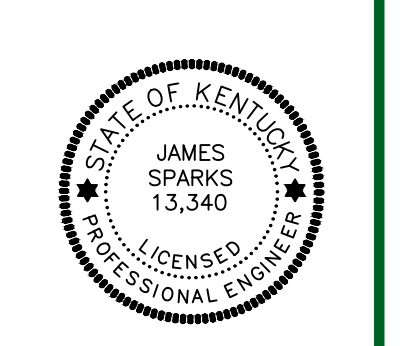


PROFILE OF PR 8 INCH KY 191

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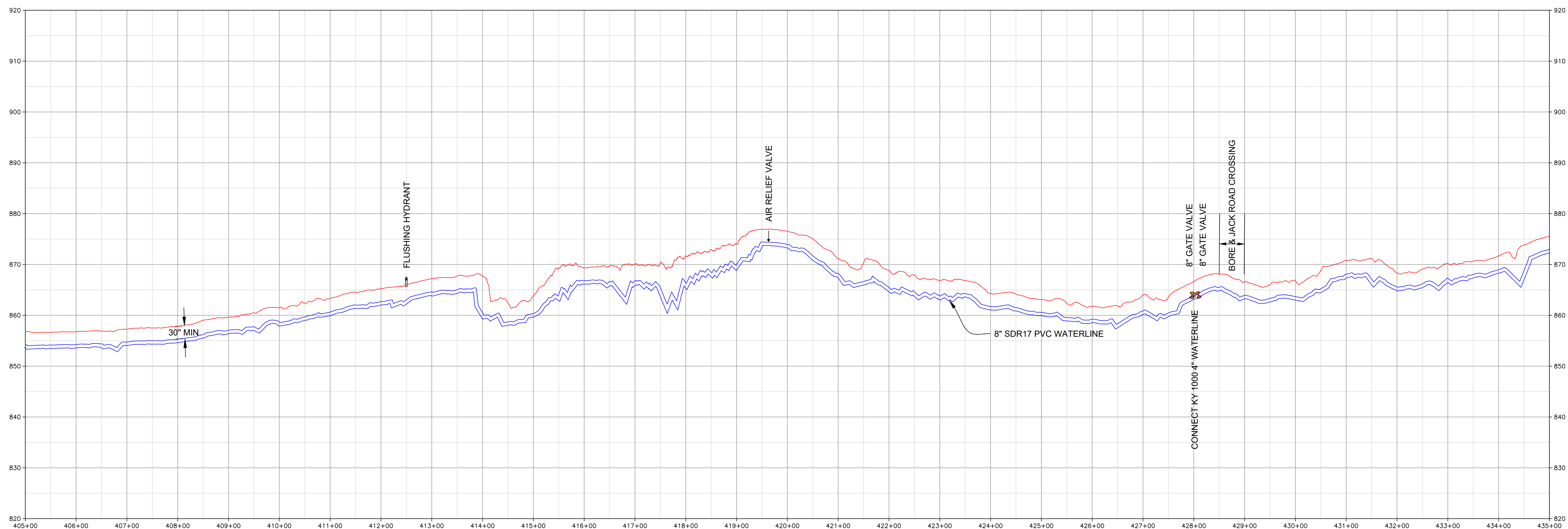
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MORGAN COUNTY WATER DISTRICT
1009 HWY 172, WEST LIBERTY, KY
KY 191
PROPOSED 8" WATERLINE
STA. 345+00 TO STA. 375+00



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MORGAN COUNTY WATER DISTRICT
KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2
Drawn by: JCW
Date: 2-14-22
Scale: 1" = 100'



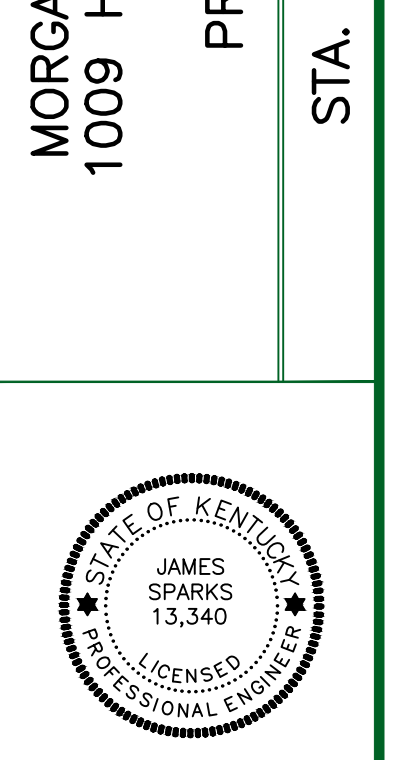


PROFILE OF PR 8 INCH KY 191

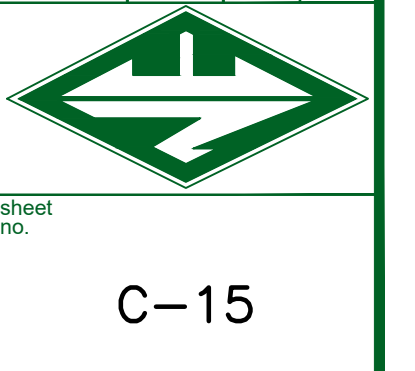
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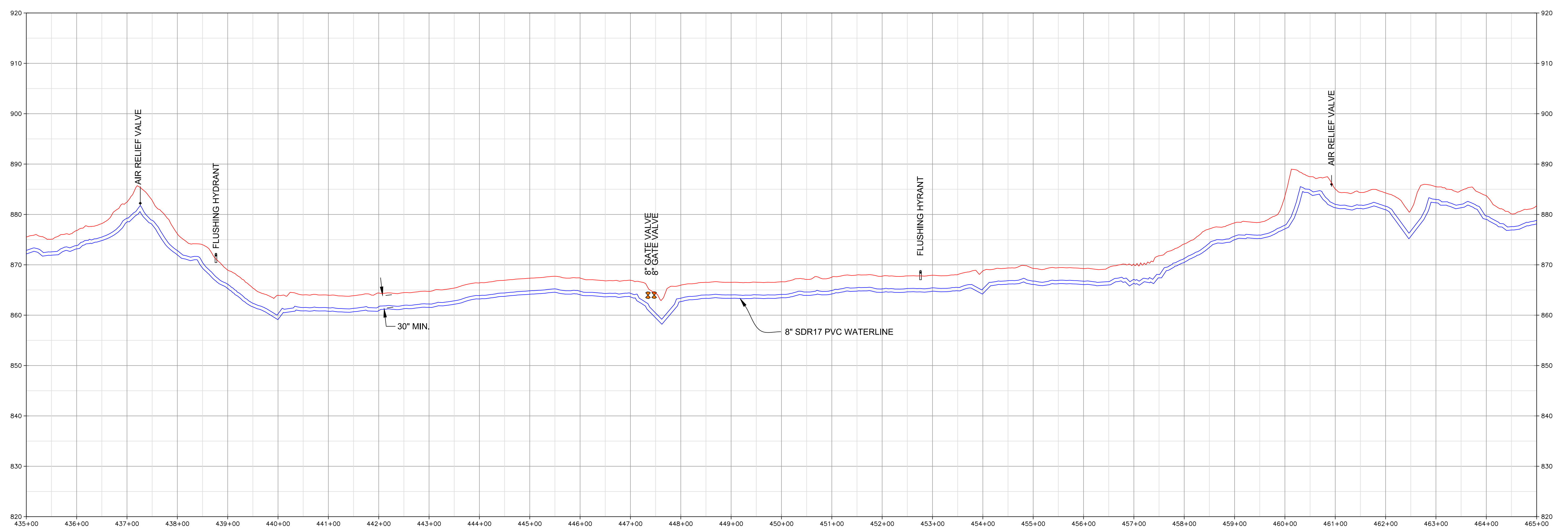
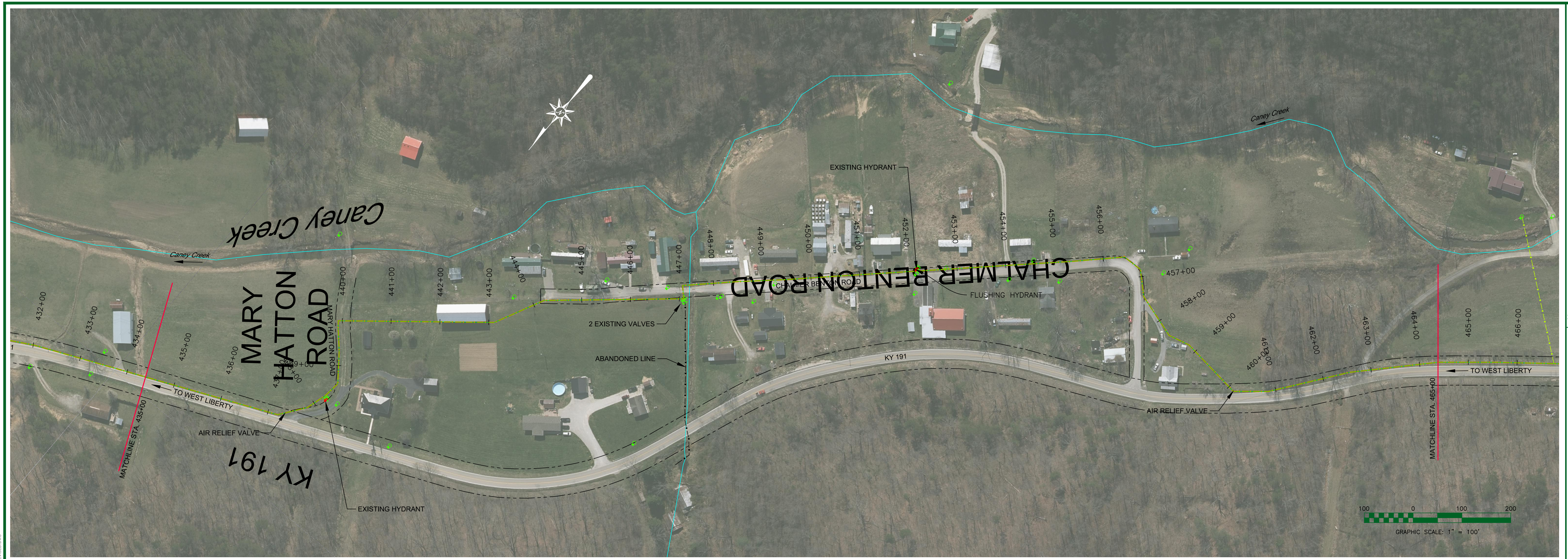
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MORGAN COUNTY WATER DISTRICT
1009 HWY 172, WEST LIBERTY, KY
KY 191
PROPOSED 8" WATERLINE
STA. 405+00 TO STA. 435+00



nesbitt engineering, inc.
providing innovative solutions since 1976
MORGAN COUNTY WATER DISTRICT
KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2
drawn by: JCW
date: 11/9/2021
scale: 1" = 100'
date: 2-14-22





PROFILE OF PR 8 INCH KY 191

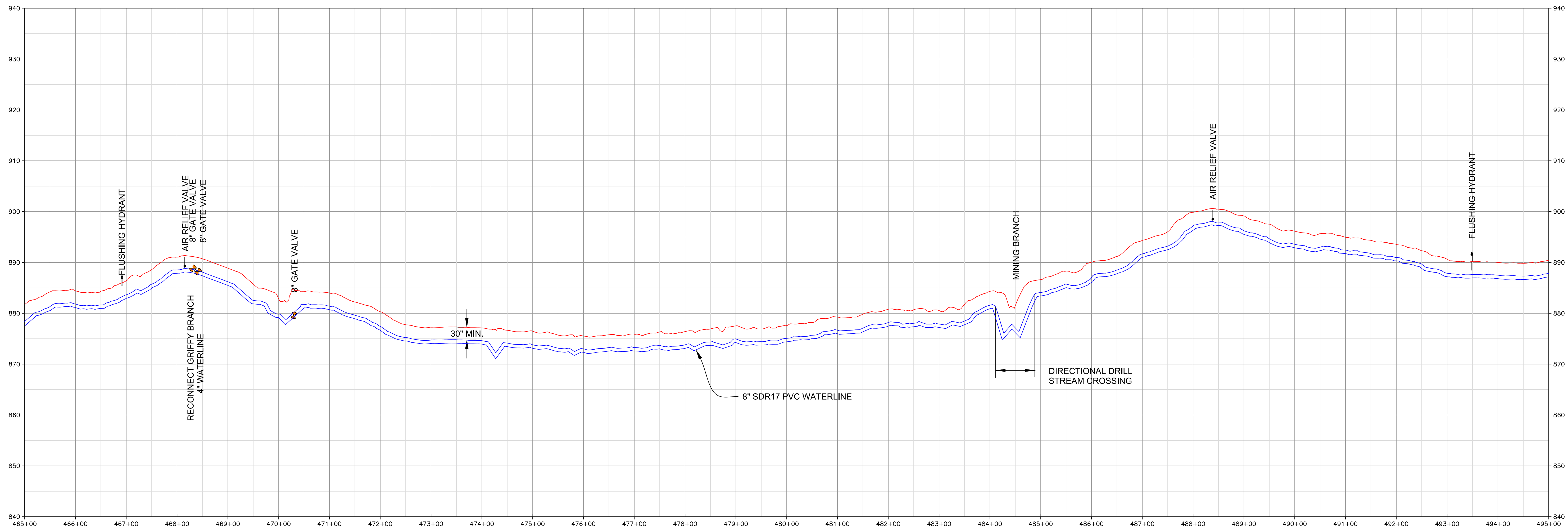
SCALE: 1" = 100' HORZ
1" = 10' VERT

DRAWING FILE LOCATION: C:\MORGAN COUNTY WATER DISTRICT\119-02 WATERLINE REPLACEMENT PROJECT PHASE 2\03 DESIGN\WORK\WATERLINE LAYOUT REVISED.DWG
LAST PRINTED ON: 2/21/2022 BY: SPARKS, JAMES H.

MORGAN COUNTY WATER DISTRICT
1009 HWY 172, WEST LIBERTY, KY
KY 191
PROPOSED 8" WATERLINE
STA. 435+00 TO STA. 465+00

| | |
|--|---------------------------------|
| nesbitt engineering, inc. <small>providing proven solutions since 1976</small> | |
| MORGAN COUNTY WATER DISTRICT KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2 | |
| <small>drawn by:</small> JCW | <small>scale:</small> 1" = 100' |
| <small>job no.:</small> 1191.02 | <small>date:</small> 2-14-22 |

Sheet No. **C-16**

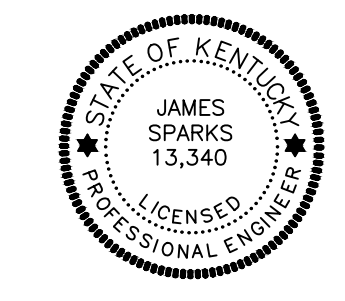


PROFILE OF PR 8 INCH KY 191

SCALE: 1" = 100' HORIZ
1" = 10' VERT

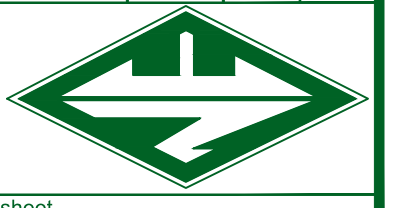
LAST PRINTED ON: 2/21/2022 BY: SPARKS, JAMES H. DRAWING FILE LOCATION: G:\MORGAN COUNTY WATER DISTRICT\119-102 WATERLINE REPLACEMENT PROJECT PHASE 2\1-03 8\" SDR17 PVC WATERLINE LAYOUT (REVISED).DWG

MORGAN COUNTY WATER DISTRICT
 1009 HWY 172, WEST LIBERTY, KY
 KY 191
 PROPOSED 8" WATERLINE
 STA. 465+00 TO STA. 495+00



nesbitt engineering, inc.
 providing proven solutions since 1976

MORGAN COUNTY WATER DISTRICT
 KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2
 Drawn by: JCW
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Sheet no.