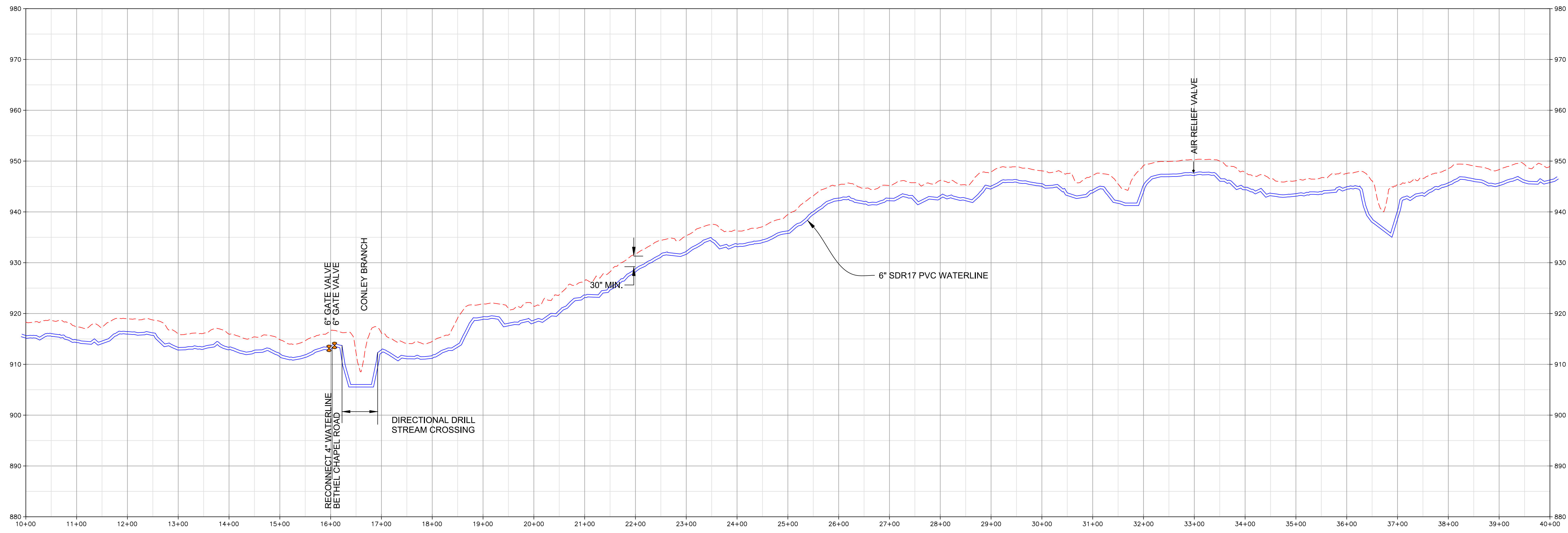


LAST PRINTED ON: 2/21/2022 BY: SPARKS, JAMES H.
 DRAWING FILE LOCATION: C:\MORGAN COUNTY WATER DISTRICT\119-02 WATERLINE REPLACEMENT PROJECT PHASE 2-03 DESIGN\WORK\DWG\PHASE 2-03 DESIGN.DWG

MORGAN COUNTY WATER DISTRICT
 1009 HWY 172, WEST LIBERTY, KY
 KY 191
PROPOSED 8" AND 6" WATERLINE
 STA. 495+00 TO STA. 525+00

nesbitt engineering, inc.
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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

C-18

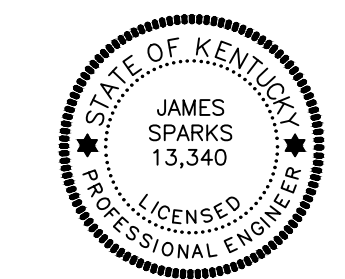


PROFILE OF PR 6 INCH KY 191

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

DRAWING FILE LOCATION: E:\MORGAN COUNTY WATER DISTRICT\119-02 WATERLINE REPLACEMENT PROJECT PHASE 2-03 DESIGN\WORK\WATERLINE LAYOUT REVISED.DWG
LAST PLOTTED ON: 7/21/2022 BY: SPARKS, JAMES H.

MORGAN COUNTY WATER DISTRICT
1009 HWY 172, WEST LIBERTY, KY
KY 191
PROPOSED 6" WATERLINE
STA. 10+00 TO STA. 40+00



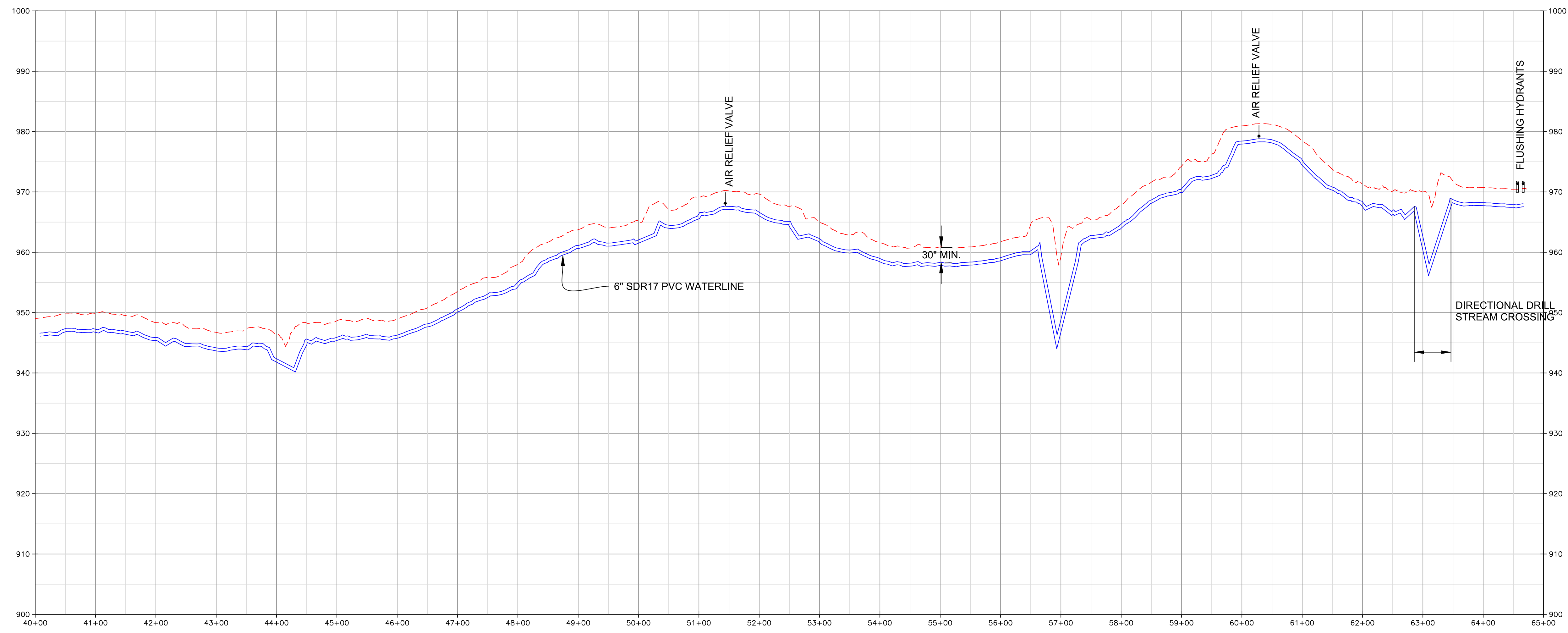
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MORGAN COUNTY WATER DISTRICT
KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2
Drawn by: JCW
Job no.: 1191.02
Scale: 1" = 100'
Date: 2-14-22



Sheet No.

C-19



PROFILE OF PR 6 INCH KY 191

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

DRAWING FILE LOCATION: E:\MORGAN COUNTY WATER DISTRICT\119-02 WATERLINE REPLACEMENT PROJECT PHASE 2\CD DESIGN\WORK\WATERLINE_LAYOUT_RENDERED.PWS
LAST PRINTED ON: 7/21/2022 BY: SPARKS, JAMES H.

<p>MORGAN COUNTY WATER DISTRICT 1009 HWY 172, WEST LIBERTY, KY KY 191 PROPOSED 6" WATERLINE STA. 40+00 TO STA. 64+72</p>	
<p>nesbitt engineering, inc. <small>providing innovative solutions since 1976</small></p>	
<p>MORGAN COUNTY WATER DISTRICT KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2</p>	
<p>Drawn by: JCW</p>	<p>Scale: 1" = 100'</p>
<p>Job No.: 1191.02</p>	<p>Date: 2-14-22</p>
<p>Sheet No. C-20</p>	



PROFILE OF PR 4 INCH KY 1000

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

MORGAN COUNTY WATER DISTRICT
1009 HWY 172, WEST LIBERTY, KY
PROPOSED 4" WATERLINE
STA. 0+00 TO STA. 25+00

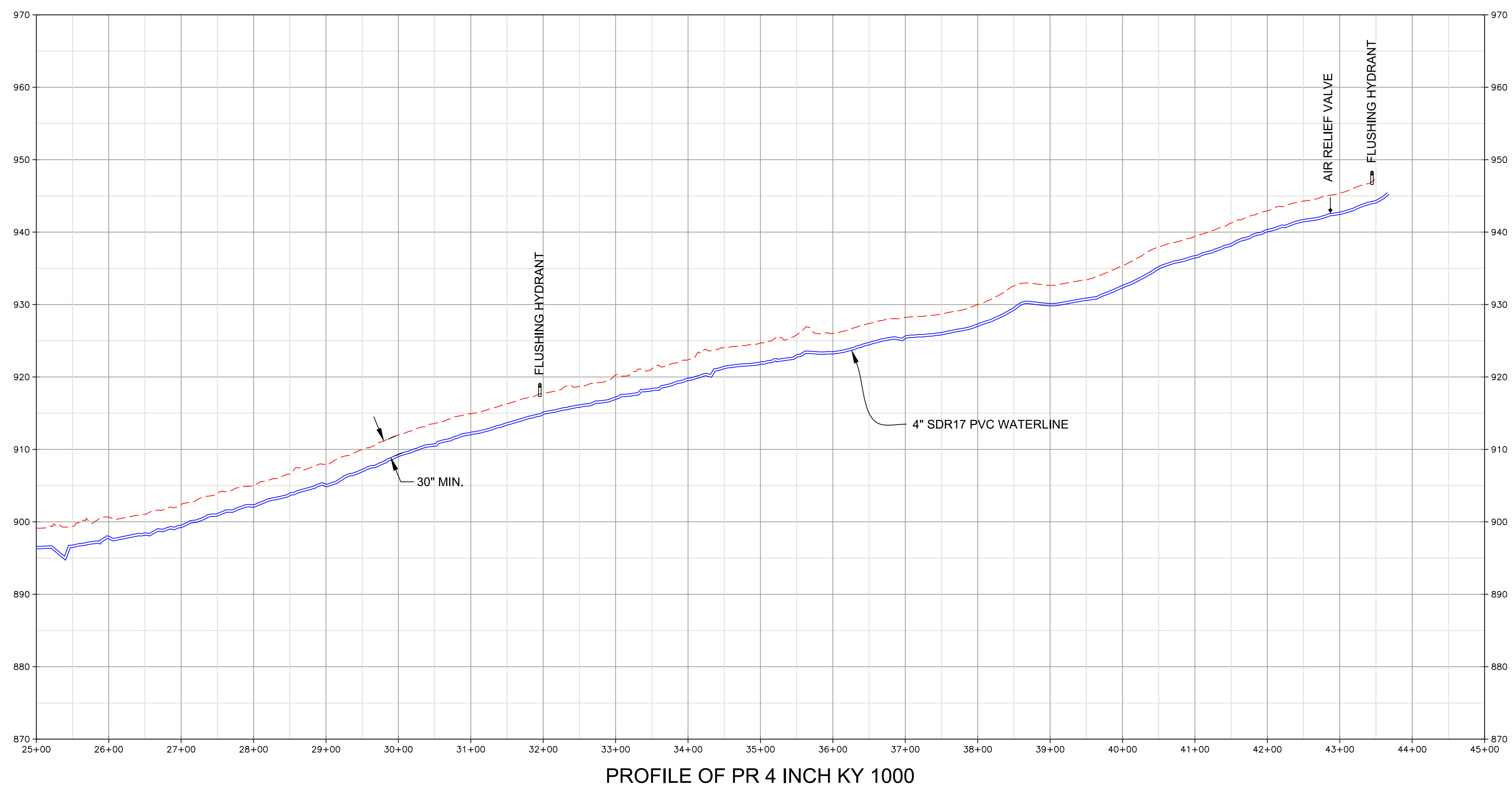
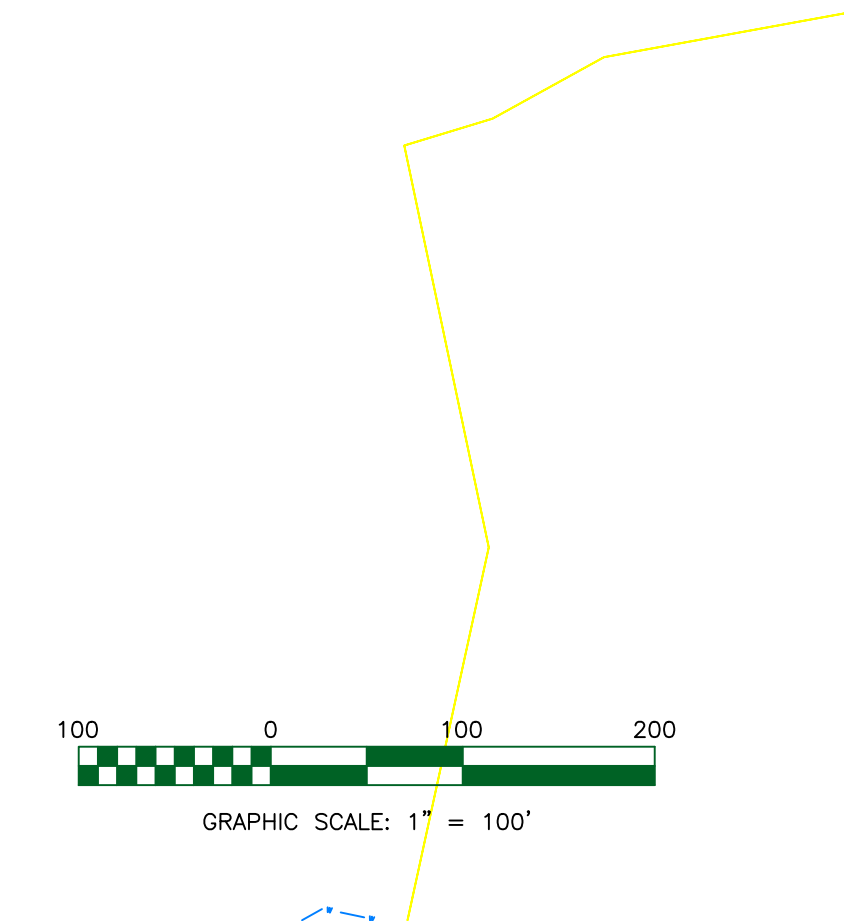
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MORGAN COUNTY WATER DISTRICT
KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2
Drawn by: JCW
Job no.: 1191.02
Scale: 1" = 100'
Date: 2-14-22

JAMES SPARKS
13,340
LICENSED PROFESSIONAL ENGINEER

Sheet No. C-21

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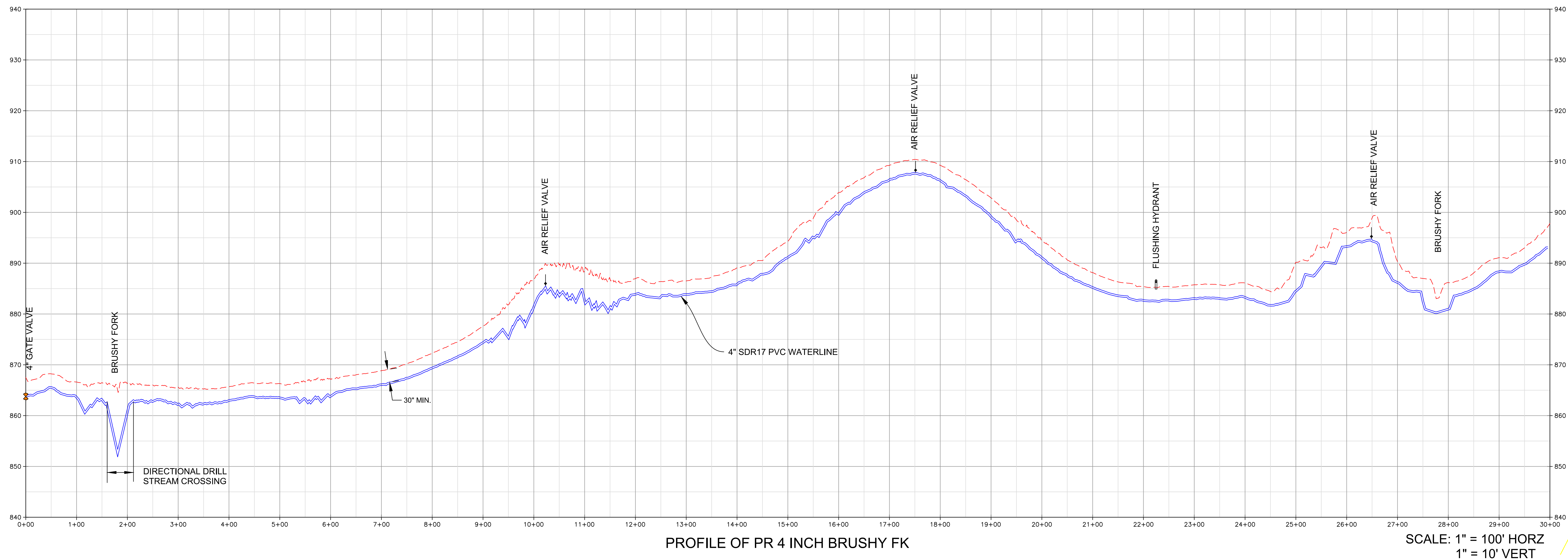


PROFILE OF PR 4 INCH KY 1000

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

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LAST PLOTTED ON: 2/21/2022 BY: SPARKS, JAMES H.

	<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 Job no.: 1191.02 Date: 2-14-22</p>	<p>MORGAN COUNTY WATER DISTRICT 1009 HWY 172, WEST LIBERTY, KY KY 1000</p> <p>PROPOSED 4" WATERLINE</p> <p>STA. 0+00 TO STA. 44+00</p>
<p>Sheet No. C-22</p>		



PROFILE OF PR 4 INCH BRUSHY FK

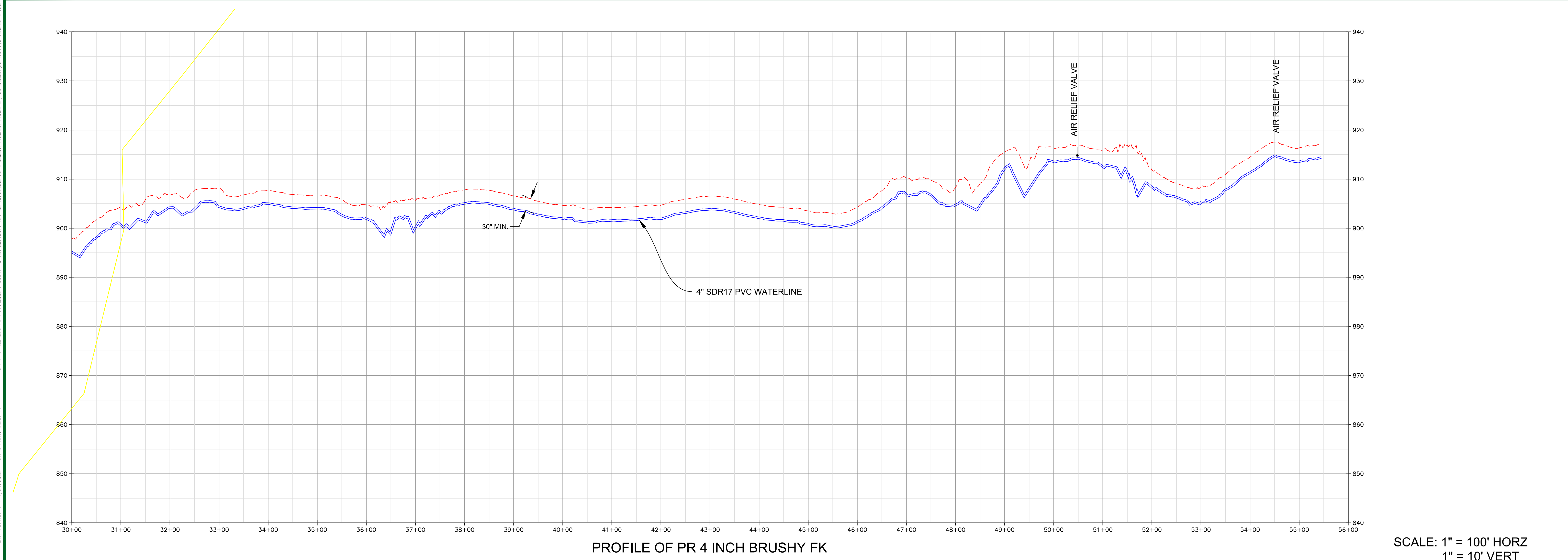
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MORGAN COUNTY WATER DISTRICT
 1009 HWY 172, WEST LIBERTY, KY
BRUSHY FORK ROAD
PROPOSED 4" WATERLINE
 STA. 0+00 TO STA. 30+00

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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-23**



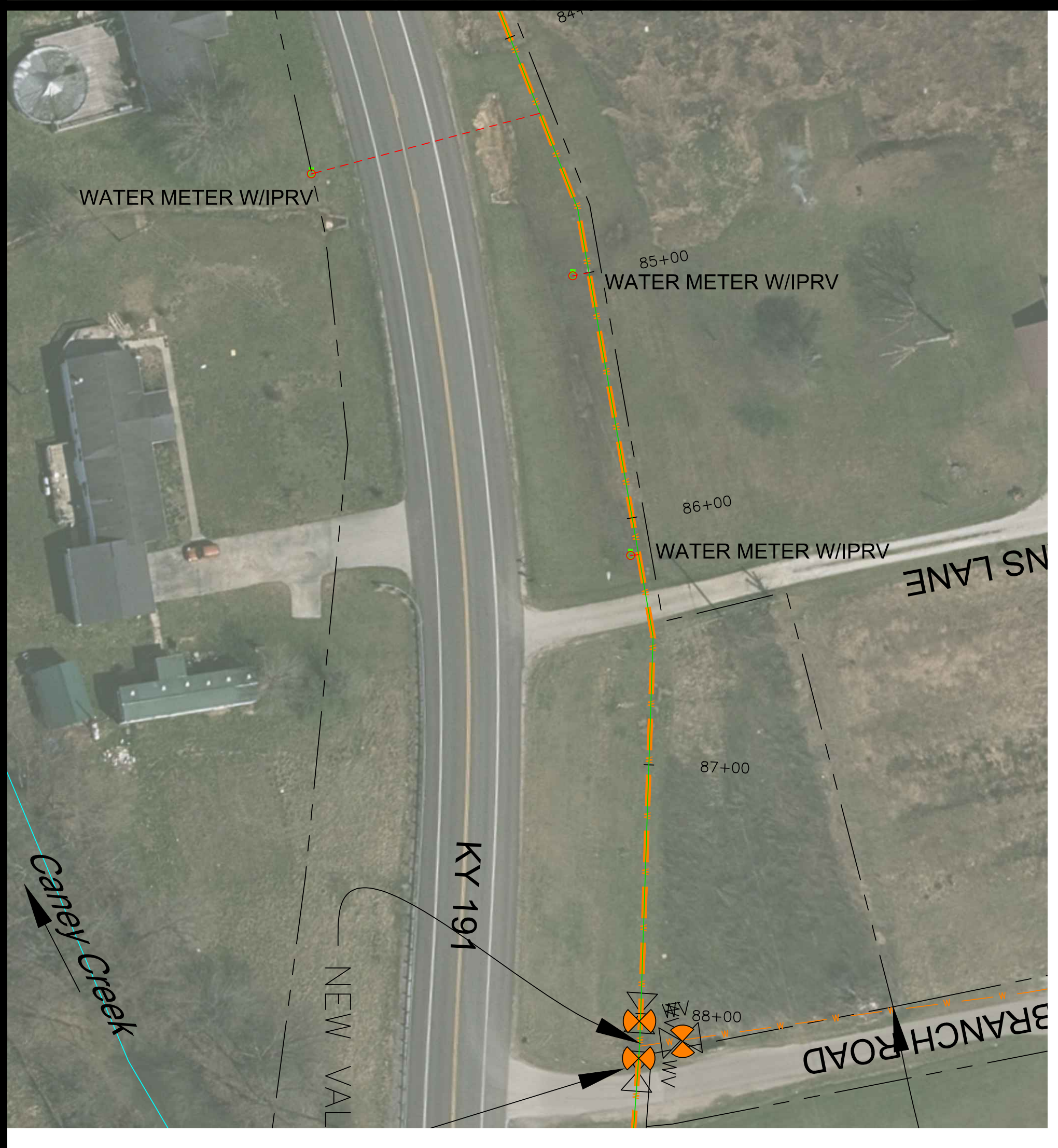
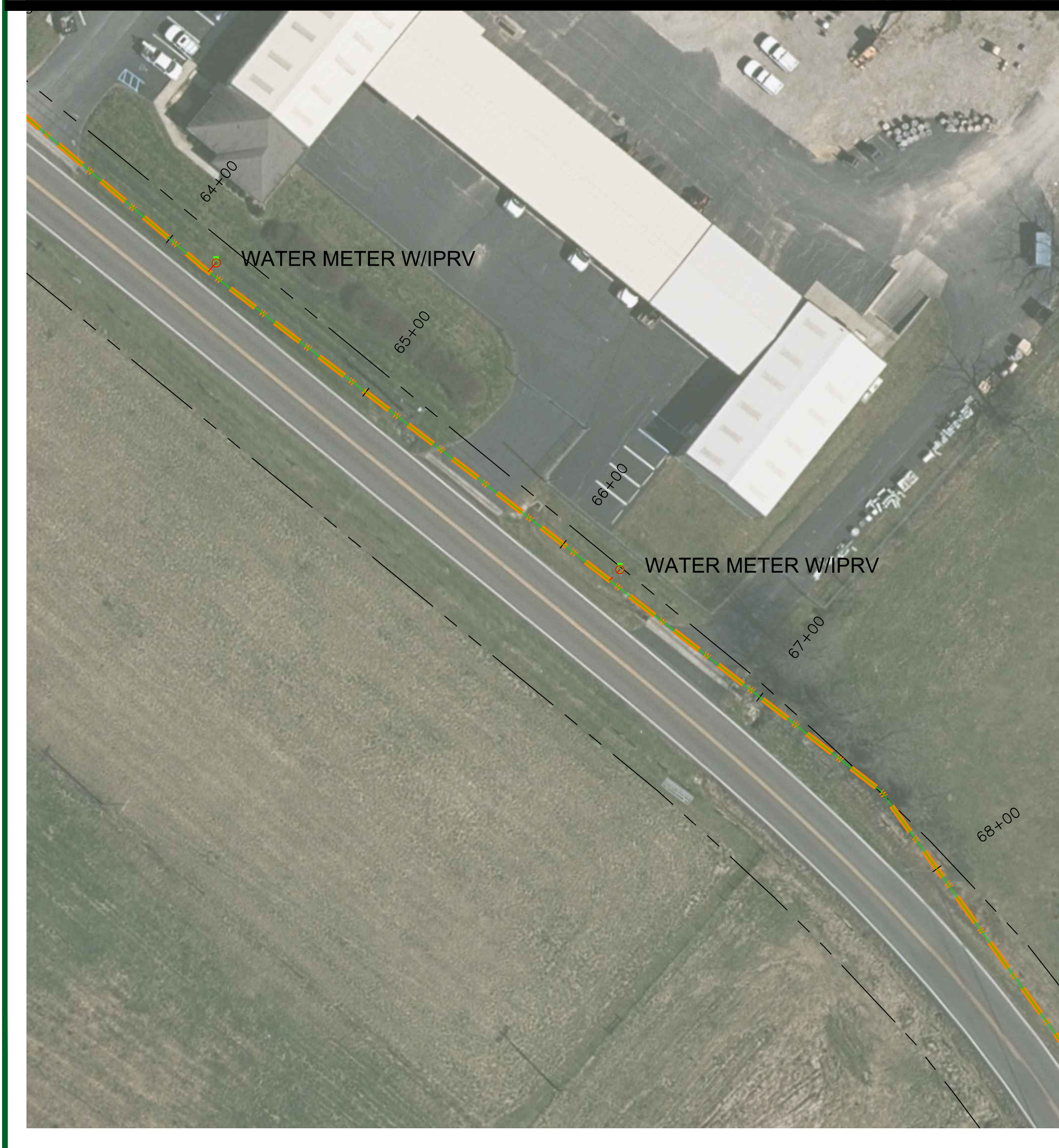
SCALE: 1" = 100' HORIZ
1" = 10' VERT

MORGAN COUNTY WATER DISTRICT
 1009 HWY 172, WEST LIBERTY, KY
 BRUSHY FORK ROAD
 PROPOSED 4" WATERLINE
 STA. 30+00 TO STA. 60+00

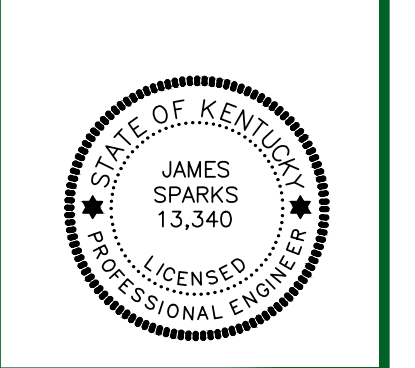
nesbitt engineering, inc. <small>providing proven solutions since 1976</small>	
MORGAN COUNTY WATER DISTRICT KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2	Scale: 1" = 100' Job No.: 1191.02
Drawn by: JCW Date: 2-14-22	Sheet No.: C-24

LAST PRINTED ON: 2/21/2022 BY: SPARKS, JAMES H.
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MORGAN COUNTY WATER DISTRICT
1009 HWY 172, WEST LIBERTY, KY
KY 191
PROPOSED 8" WATERLINE
WATER METER LOCATIONS



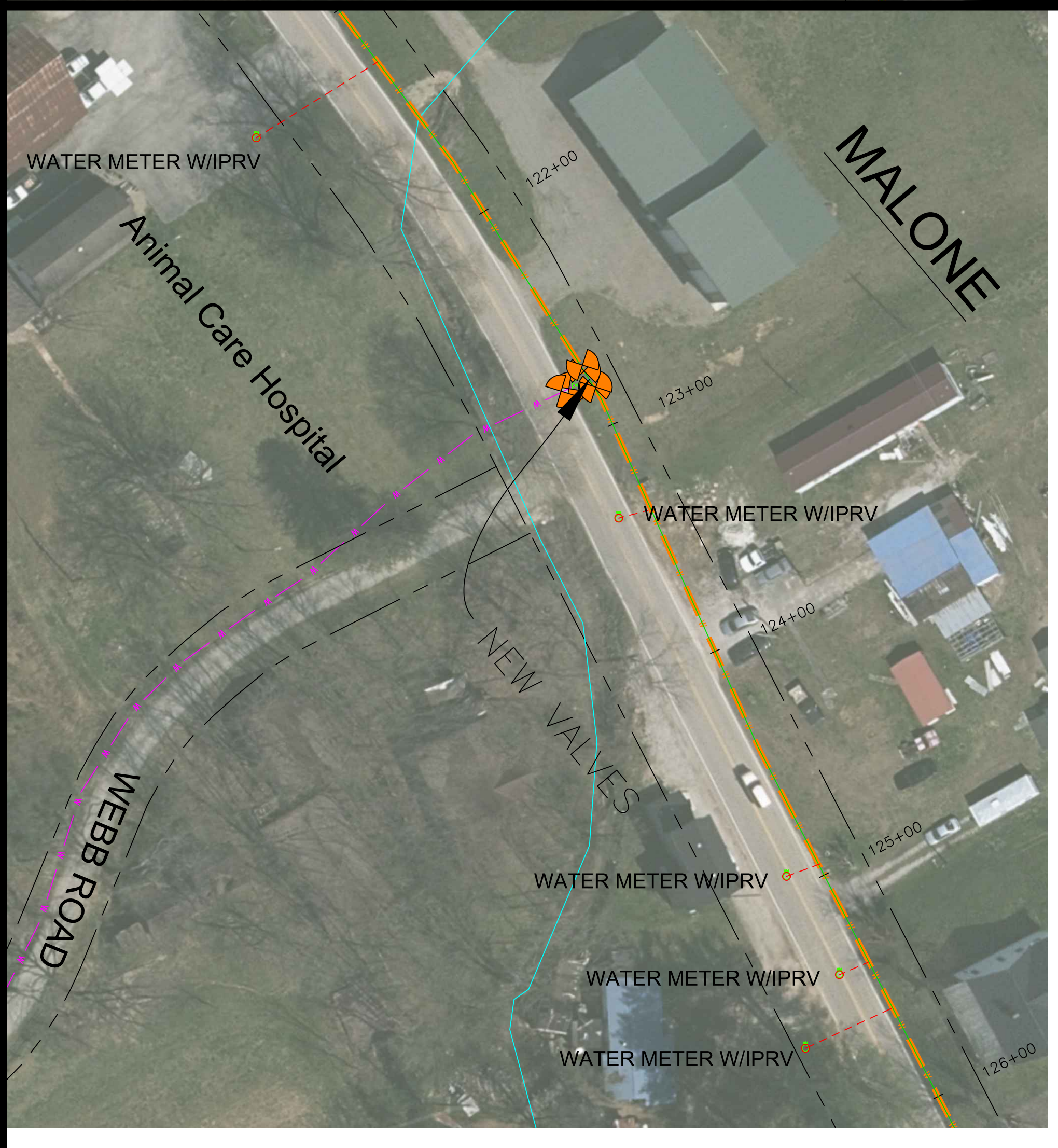
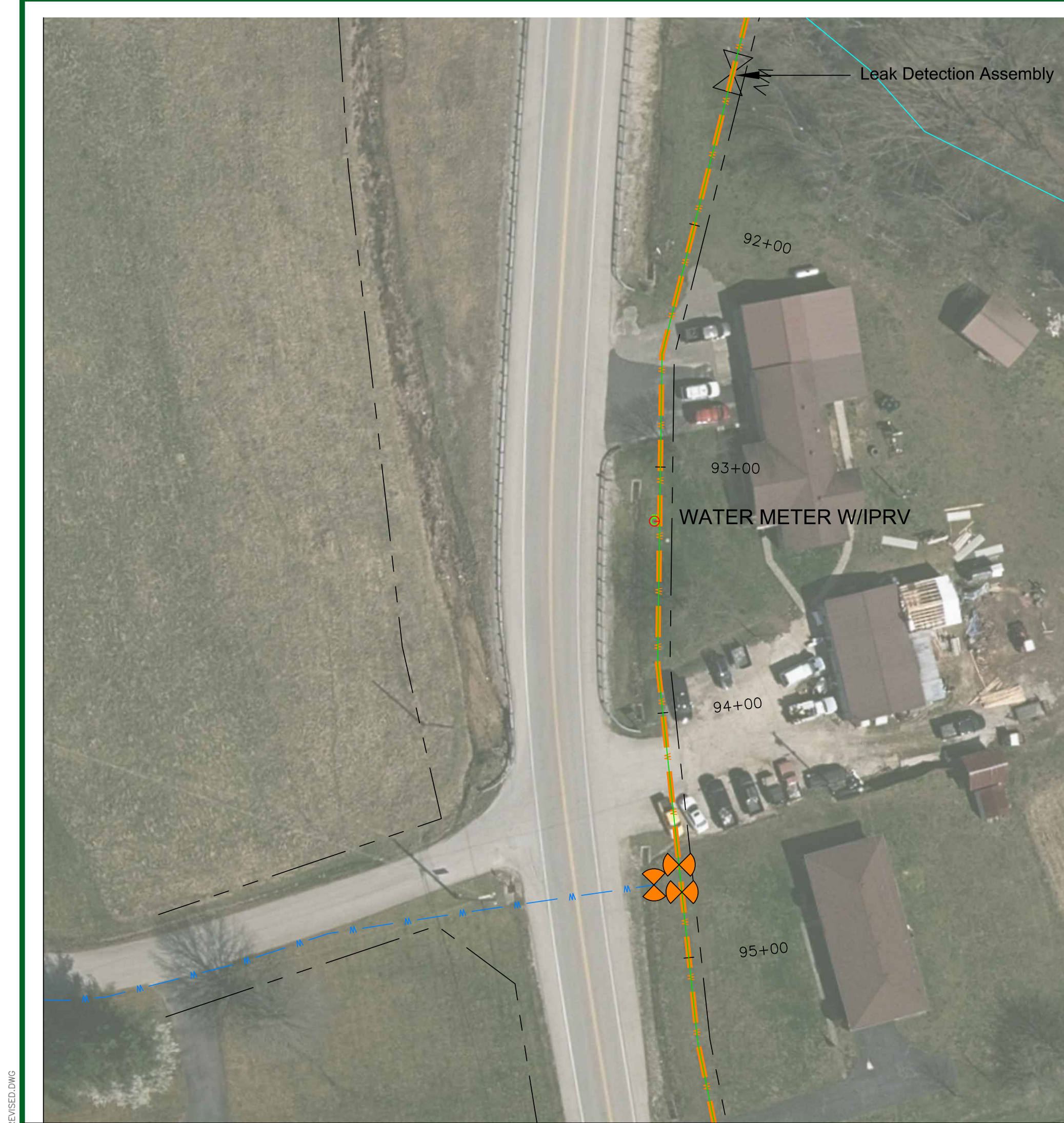
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MORGAN COUNTY WATER DISTRICT
1009 HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2

drawn by: JCW
job no.: 1191-02
scale: 1" = 40'

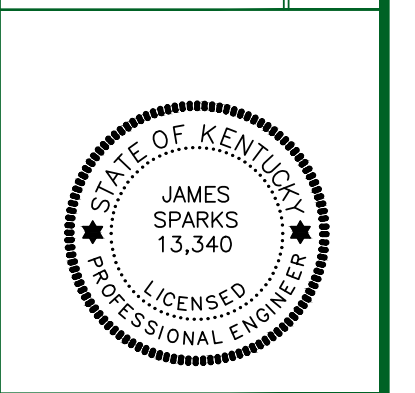
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Sheet No. C-25

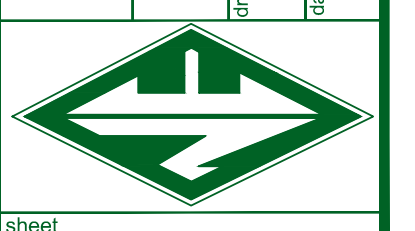


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MORGAN COUNTY WATER DISTRICT
 1009 HWY 172, WEST LIBERTY, KY
 KY 191
 PROPOSED 8" WATERLINE
 WATER METER LOCATIONS



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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" = 40'
 date: 2-14-22

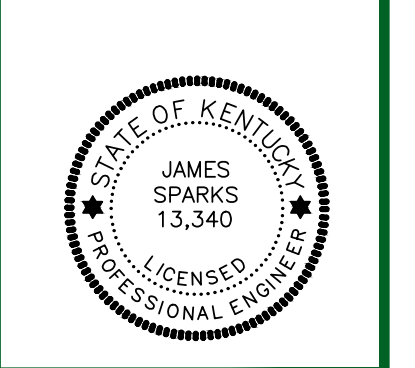


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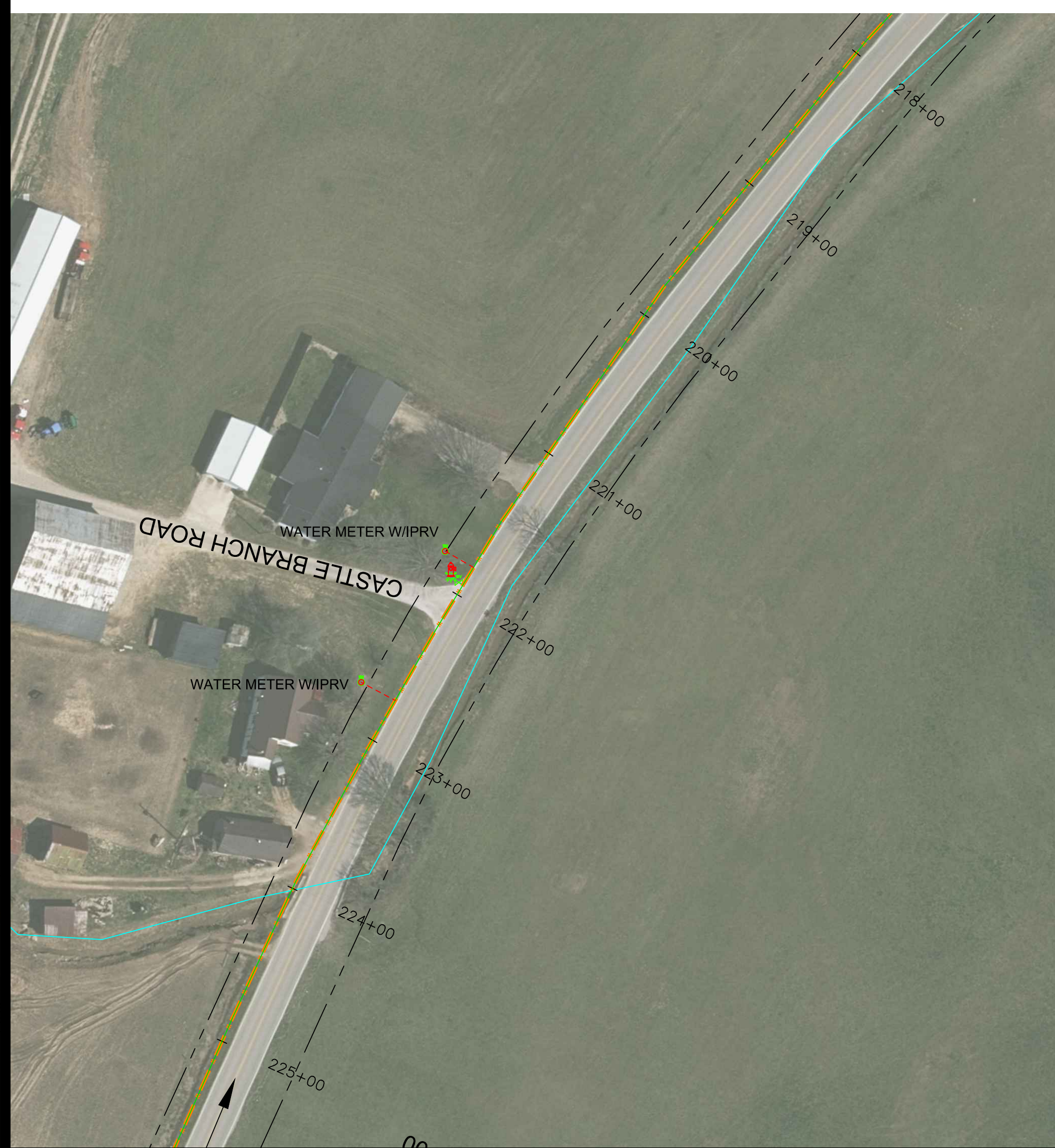
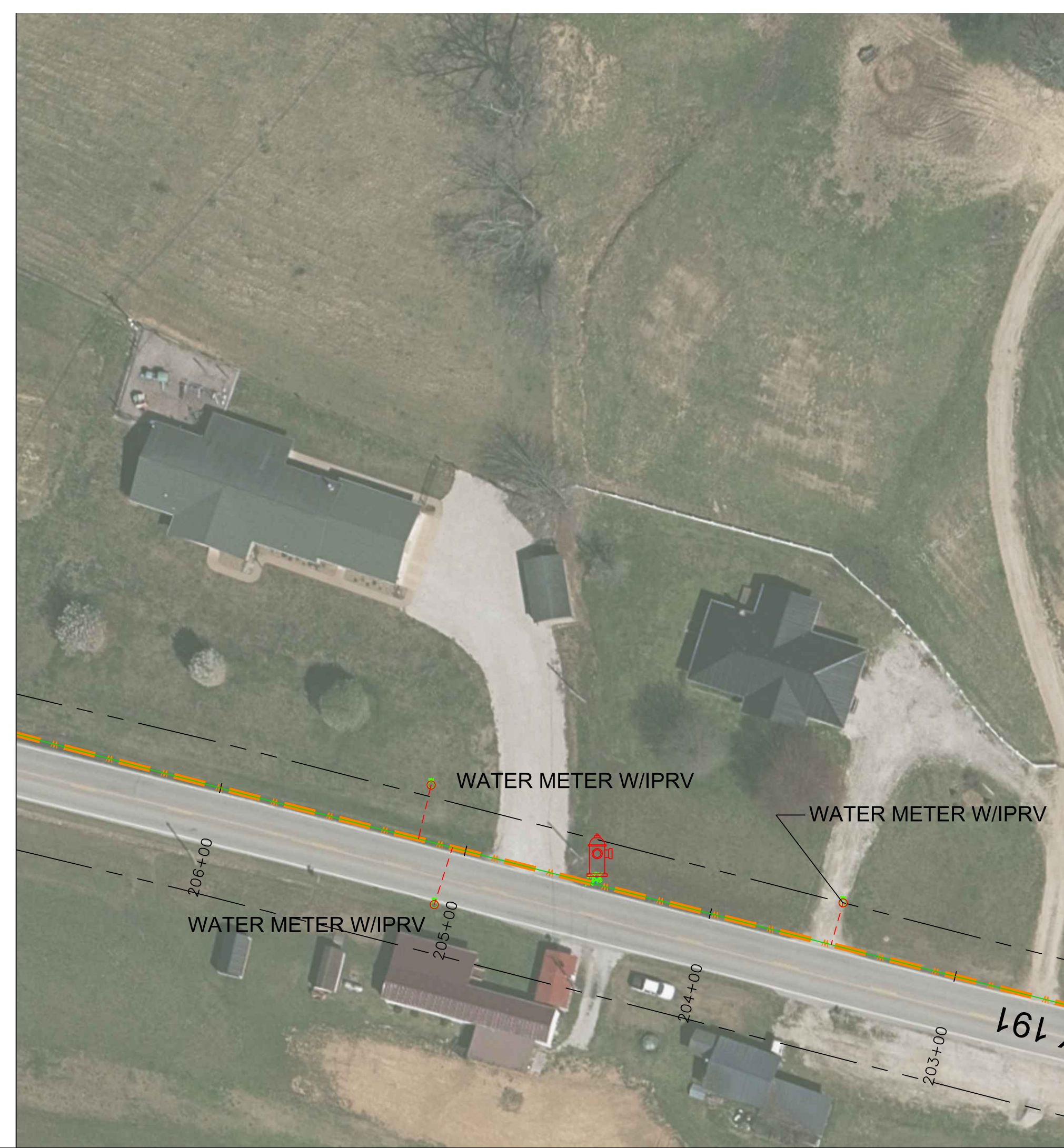


MORGAN COUNTY WATER DISTRICT
1009 HWY 172, WEST LIBERTY, KY
KY 191
PROPOSED 8" WATERLINE
WATER METER LOCATIONS



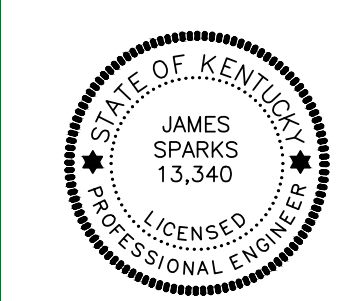
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MORGAN COUNTY WATER DISTRICT
KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2
drawn by: JCW
job no.: 1191.02
scale: 1" = 40'
date: 2-14-22

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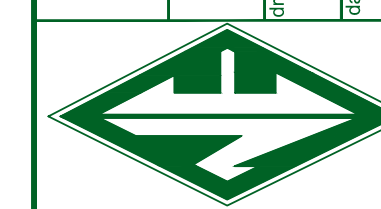
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MORGAN COUNTY WATER DISTRICT
1009 HWY 172, WEST LIBERTY, KY
KY 191
PROPOSED 8" WATERLINE
WATER METER LOCATIONS



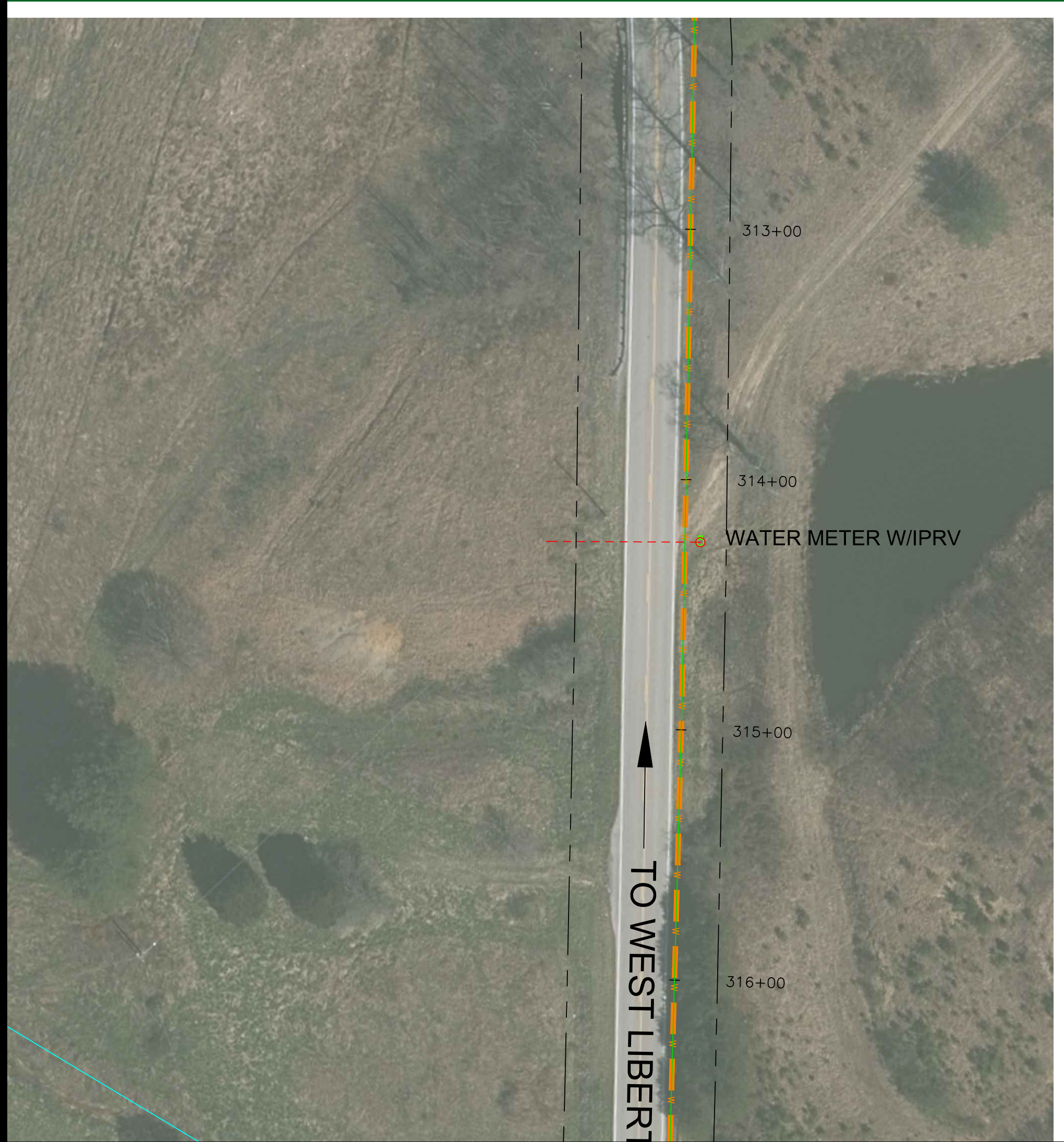
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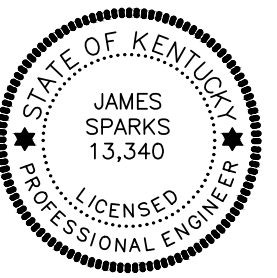
MORGAN COUNTY WATER DISTRICT
KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2
JOB NO.: 1191-02
DRAWN BY: JCW
DATE: 2-14-22
SCALE: 1" = 40'



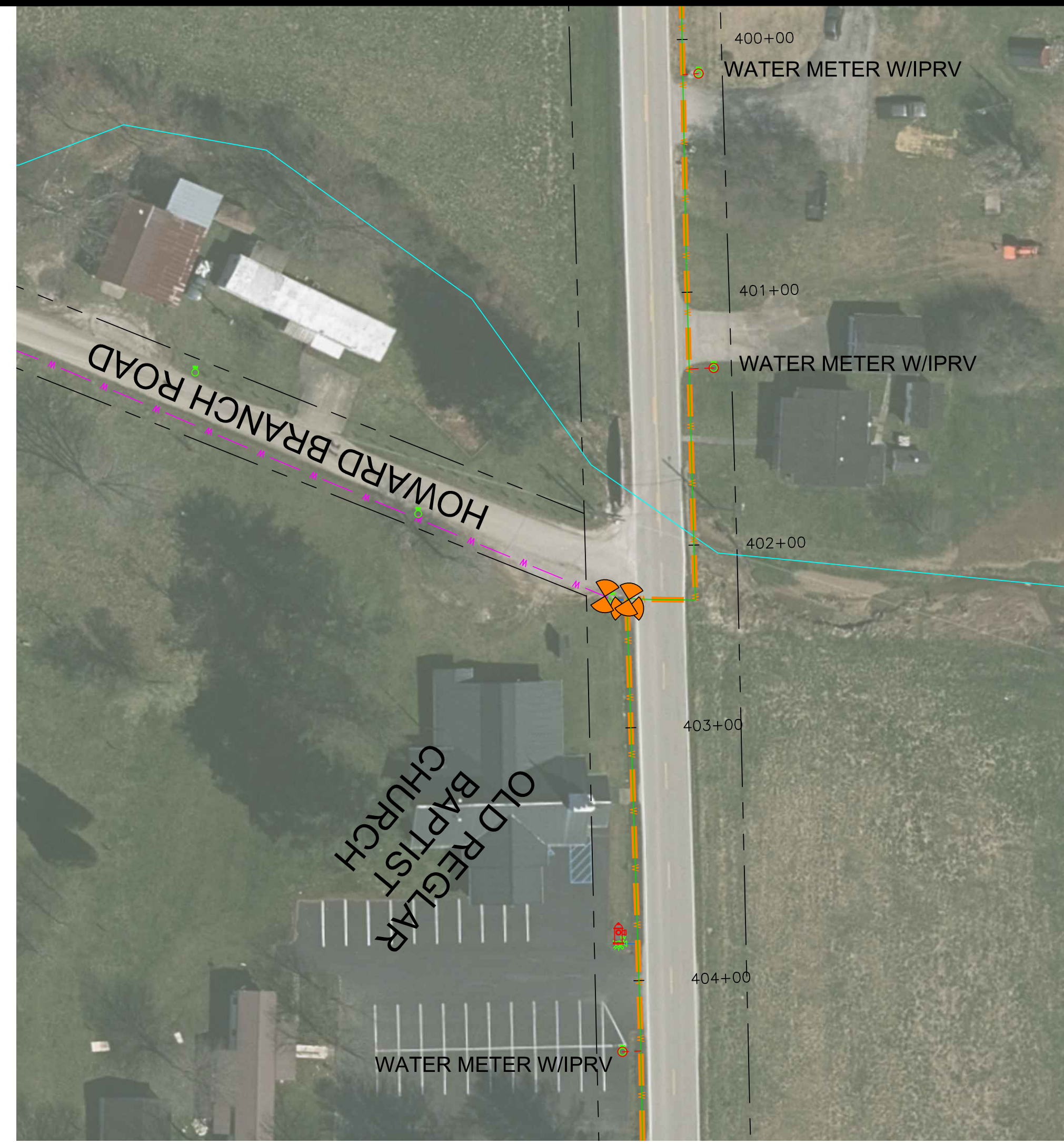
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MORGAN COUNTY WATER DISTRICT 1009 HWY 172, WEST LIBERTY, KY KY 191 PROPOSED 8" WATERLINE WATER METER LOCATIONS			
nesbitt engineering, inc. <small>providing proven solutions since 1976</small>		MORGAN COUNTY WATER DISTRICT 1009 HWY 172, WEST LIBERTY, KY KY 191	
drawn by: JCW	job no.: 1191.02	scale: 1" = 40'	date: 2-14-22
sheet no.: C-29			

LAST PLOTTED ON: 7/25/2022 BY: SPARKS, JAMES H. DRAWING FILE LOCATION: P:\MORGAN COUNTY WATER DISTRICT\191-02 WATERLINE REPLACEMENT PROJECT PHASE 2\191-02 DESKTOP\WORK\WATERLINE LAYOUT REVISIONS.DWG



MORGAN COUNTY WATER DISTRICT
1009 HWY 172, WEST LIBERTY, KY
KY 191
PROPOSED 8" WATERLINE
WATER METER LOCATIONS

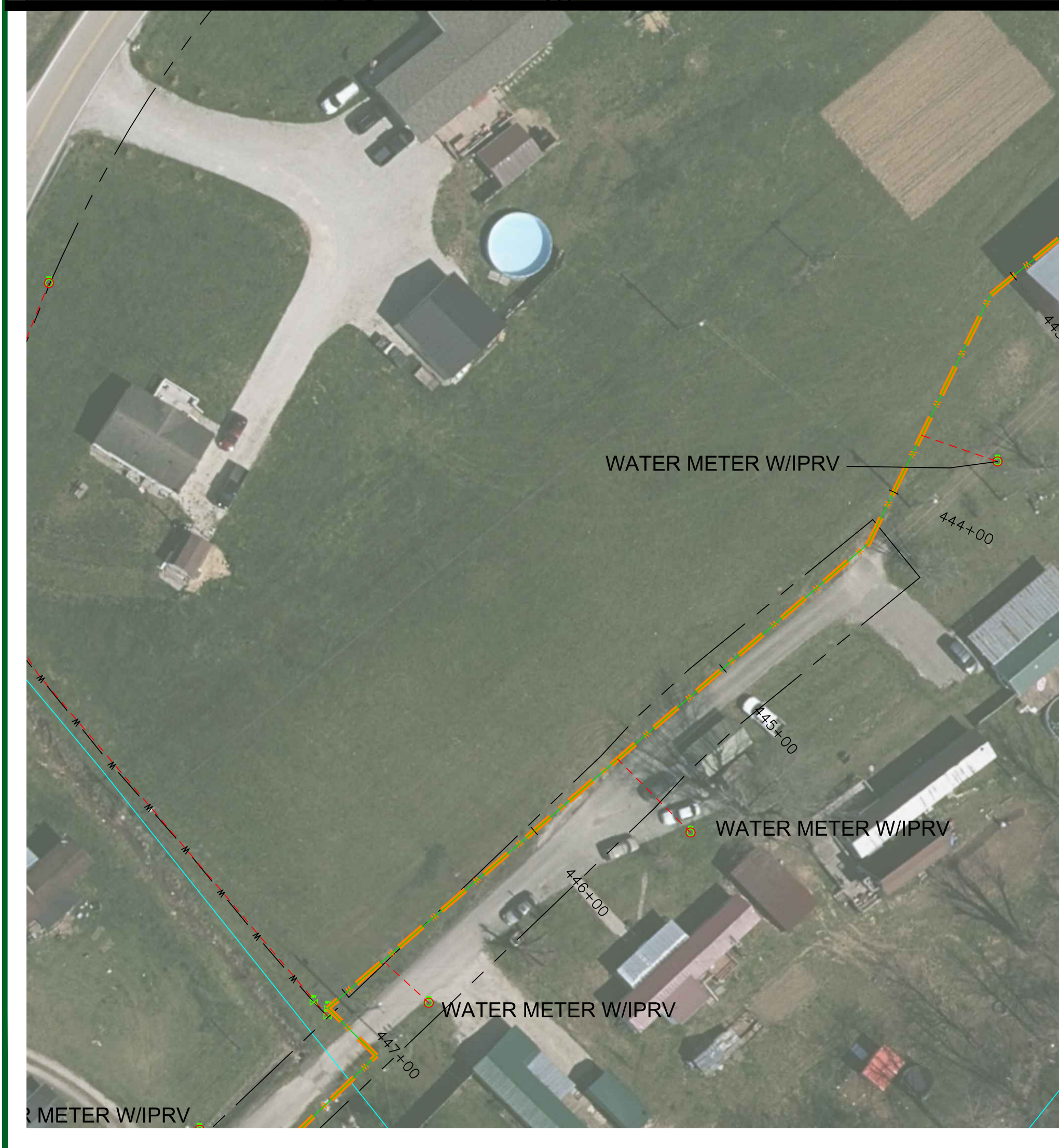
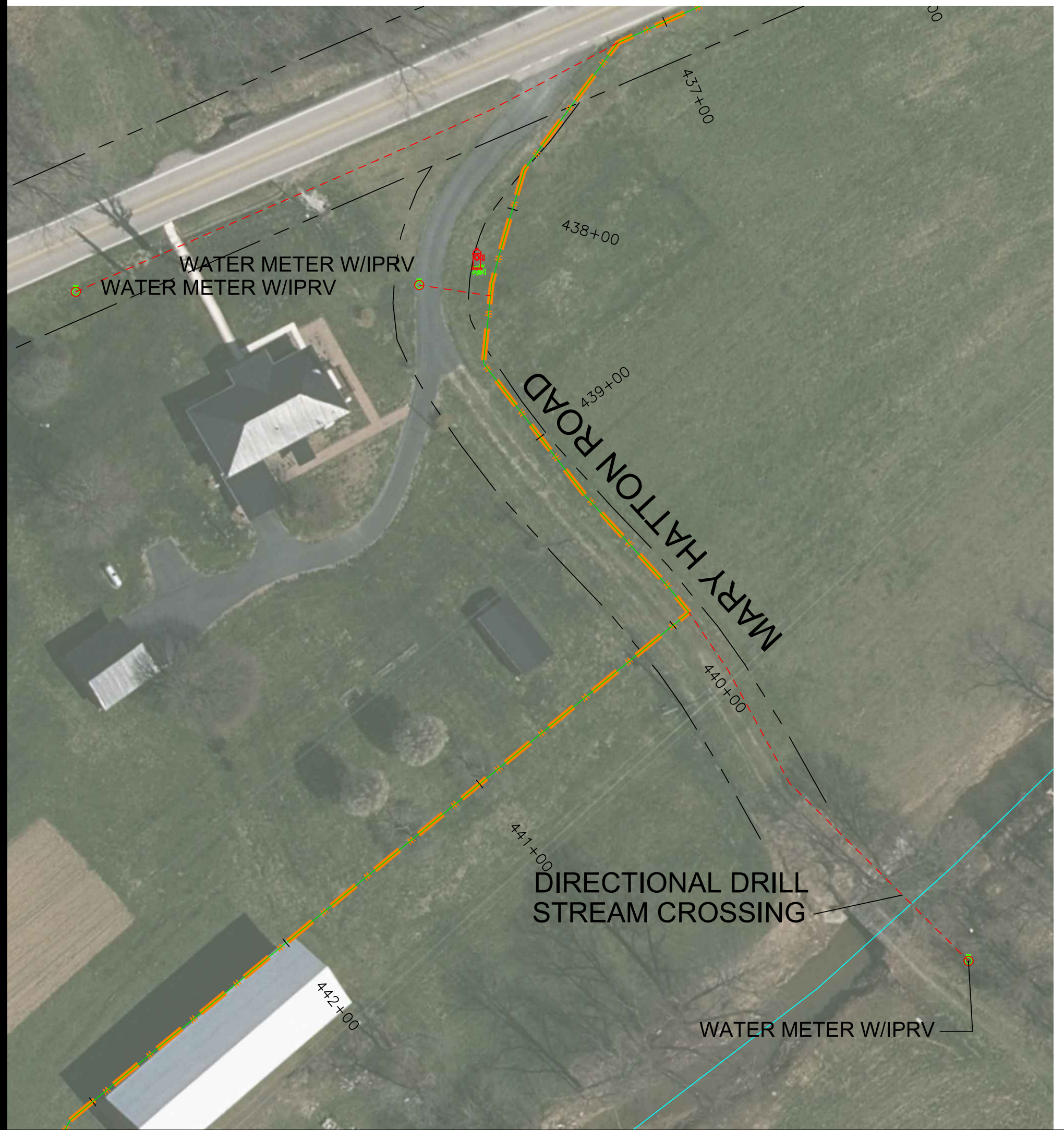
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MORGAN COUNTY WATER DISTRICT
KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2

drawn by: JCW
job no.: 1191.02
date: 2-14-22
scale: 1" = 40'

Sheet No. C-30

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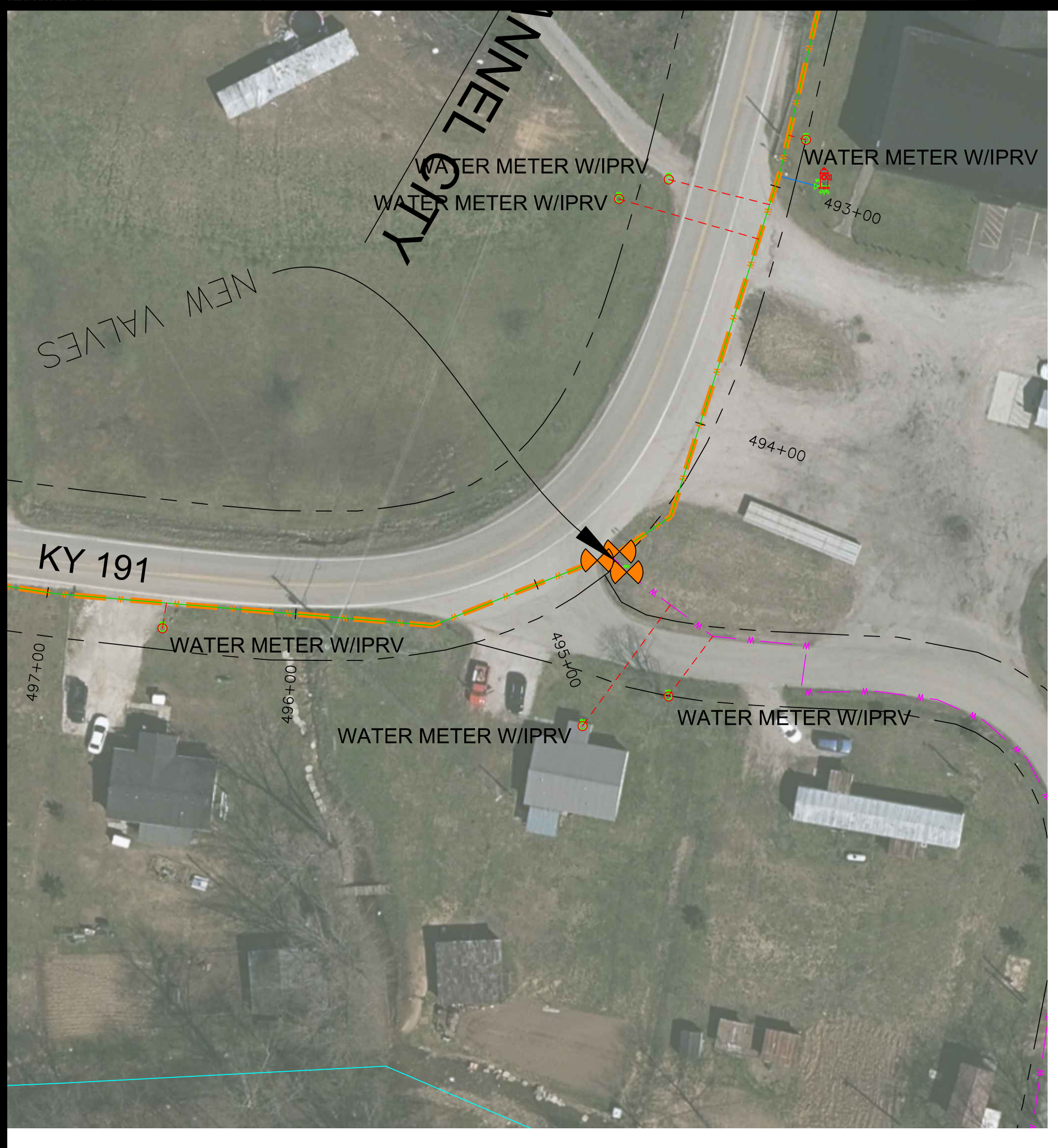
MORGAN COUNTY WATER DISTRICT
1009 HWY 172, WEST LIBERTY, KY
KY 191
PROPOSED 8" WATERLINE
WATER METER LOCATIONS

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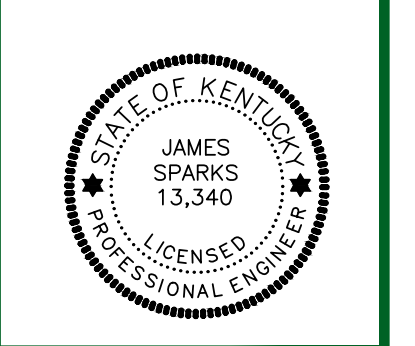
MORGAN COUNTY WATER DISTRICT
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drawn by: JCW
date: 2-14-22
job no.: 1191.02
scale: 1" = 40'

sheet no. C-31

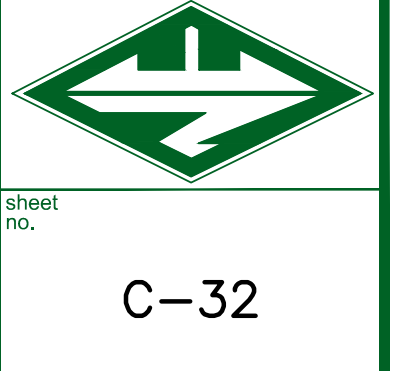
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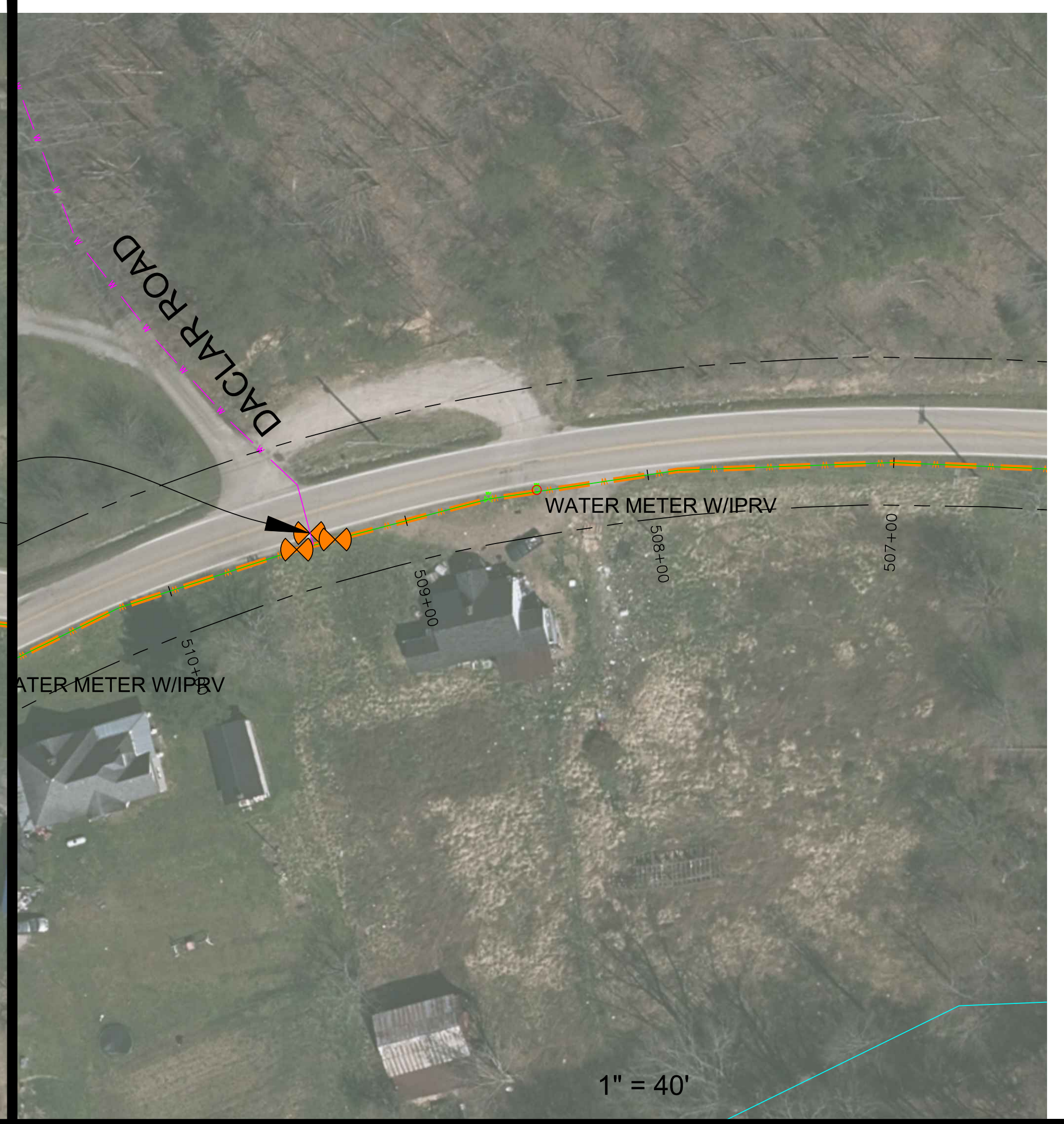
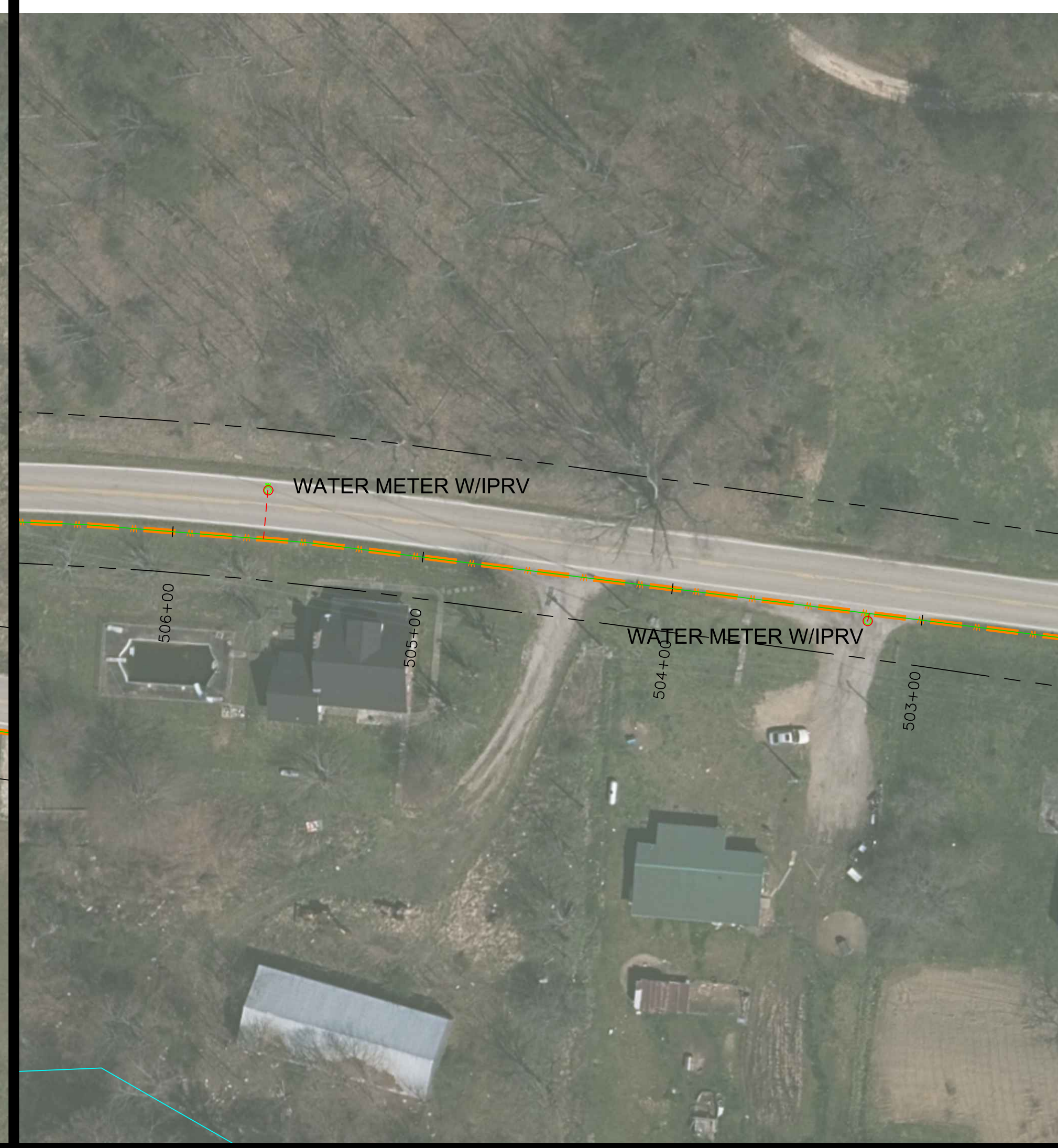
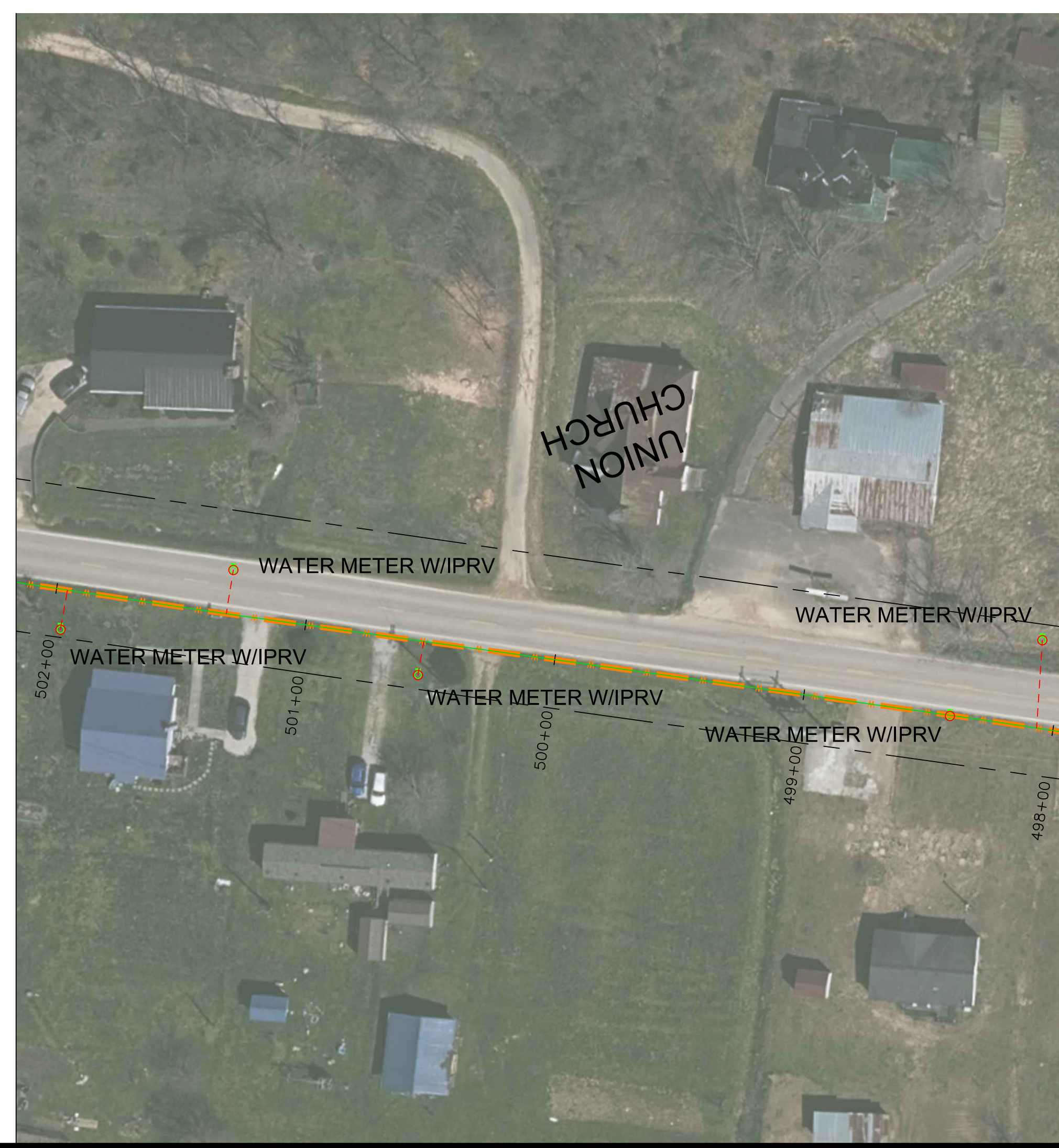
MORGAN COUNTY WATER DISTRICT
1009 HWY 172, WEST LIBERTY, KY
KY 191
PROPOSED 8" WATERLINE
WATER METER LOCATIONS


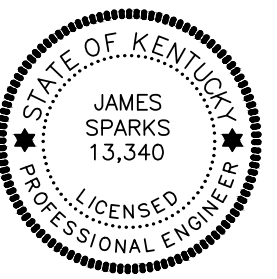


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MORGAN COUNTY WATER DISTRICT
KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2
drawn by: JCW
date: 11/91/02
scale: 1" = 40'
sheet no.: 2-14-22



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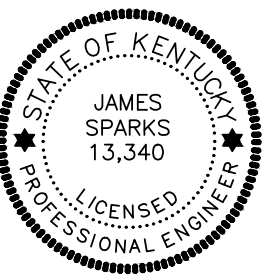
	MORGAN COUNTY WATER DISTRICT 1009 HWY 172, WEST LIBERTY, KY KY 191	
	PROPOSED 8" WATERLINE WATER METER LOCATIONS	
		
nesbitt engineering, inc. <small>providing proven solutions since 1976</small>	MORGAN COUNTY WATER DISTRICT KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2	
drawn by: JCW date: 2-14-22	job no.: 1191.02 scale: 1" = 40'	
sheet no. C-33		

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FORM NO. 1

MORGAN COUNTY WATER DISTRICT
1009 HWY 172, WEST LIBERTY, KY
KY 191
PROPOSED 6" WATERLINE
WATER METER LOCATIONS



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MORGAN COUNTY WATER DISTRICT
KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2

drawn by: JCW
date: 2-14-22
job no.: 1191.02
scale: 1" = 40'



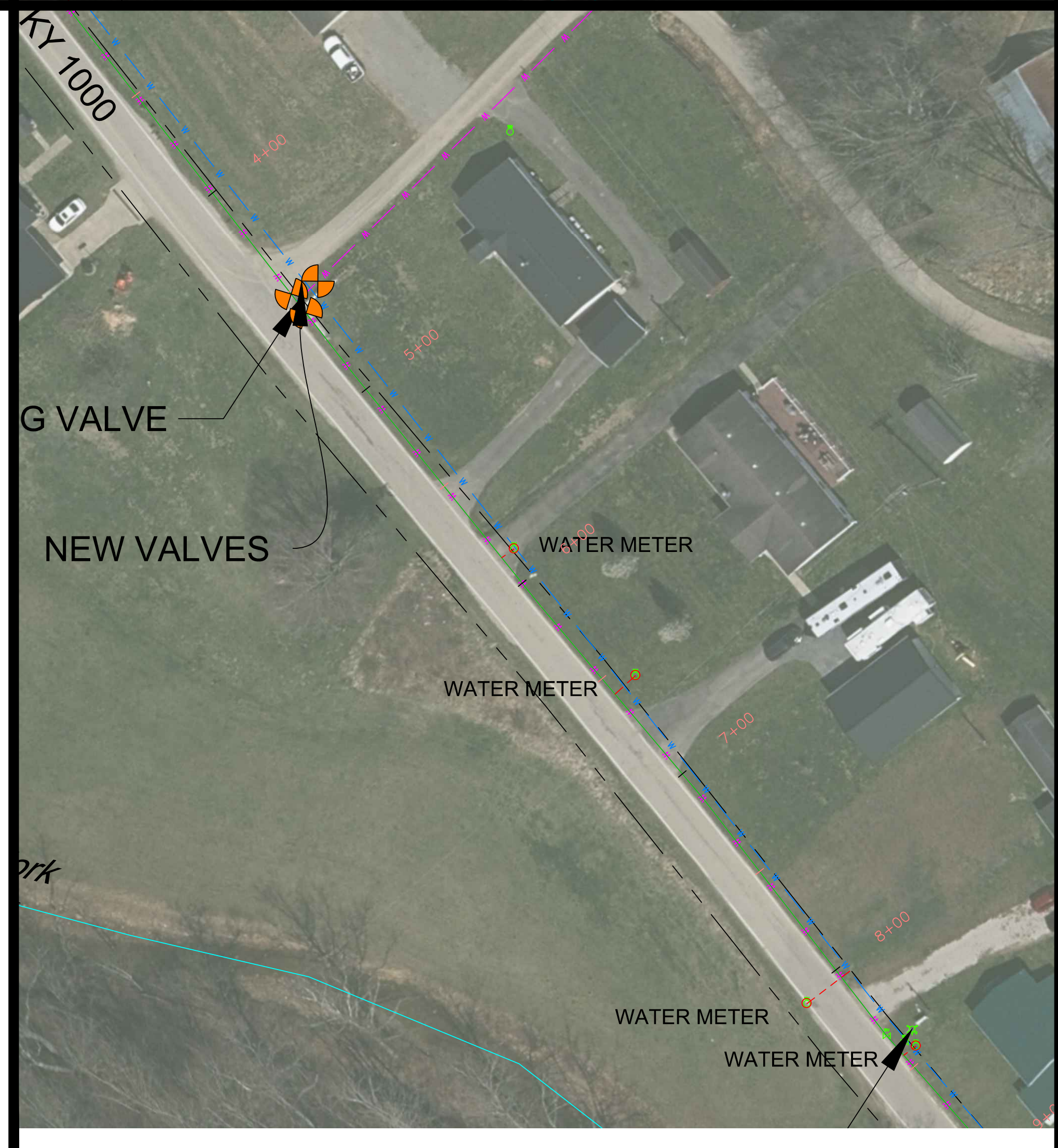
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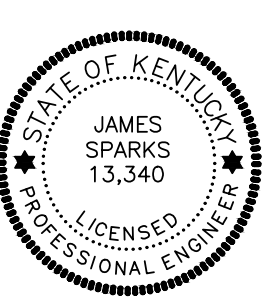


KY 1000 & Brushy Fork
4" WATERLINE



FORMER:

MORGAN COUNTY WATER DISTRICT
1009 HWY 172, WEST LIBERTY, KY
KY 191
PROPOSED 6" & 4" WATERLINE
WATER METER LOCATIONS



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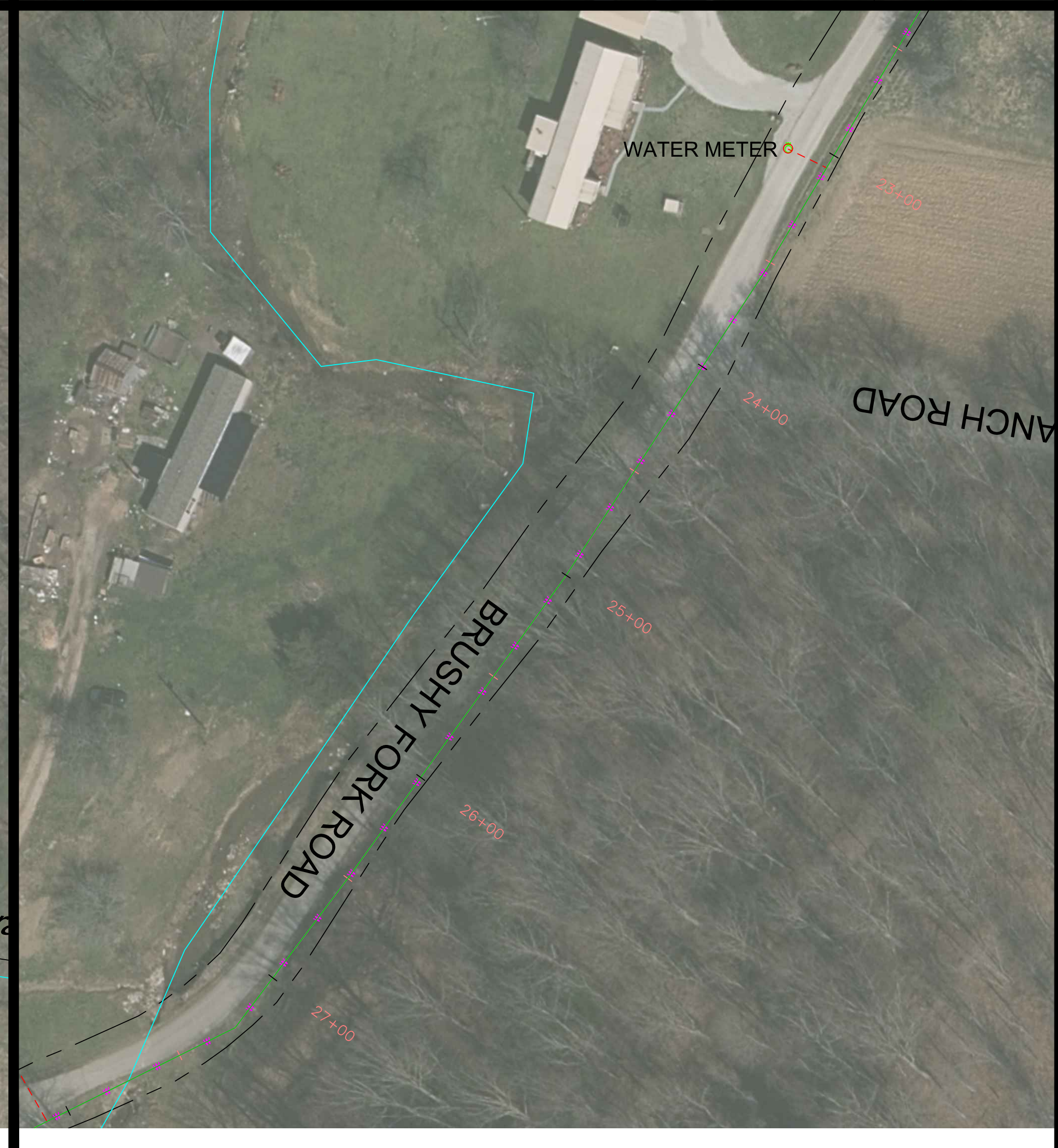
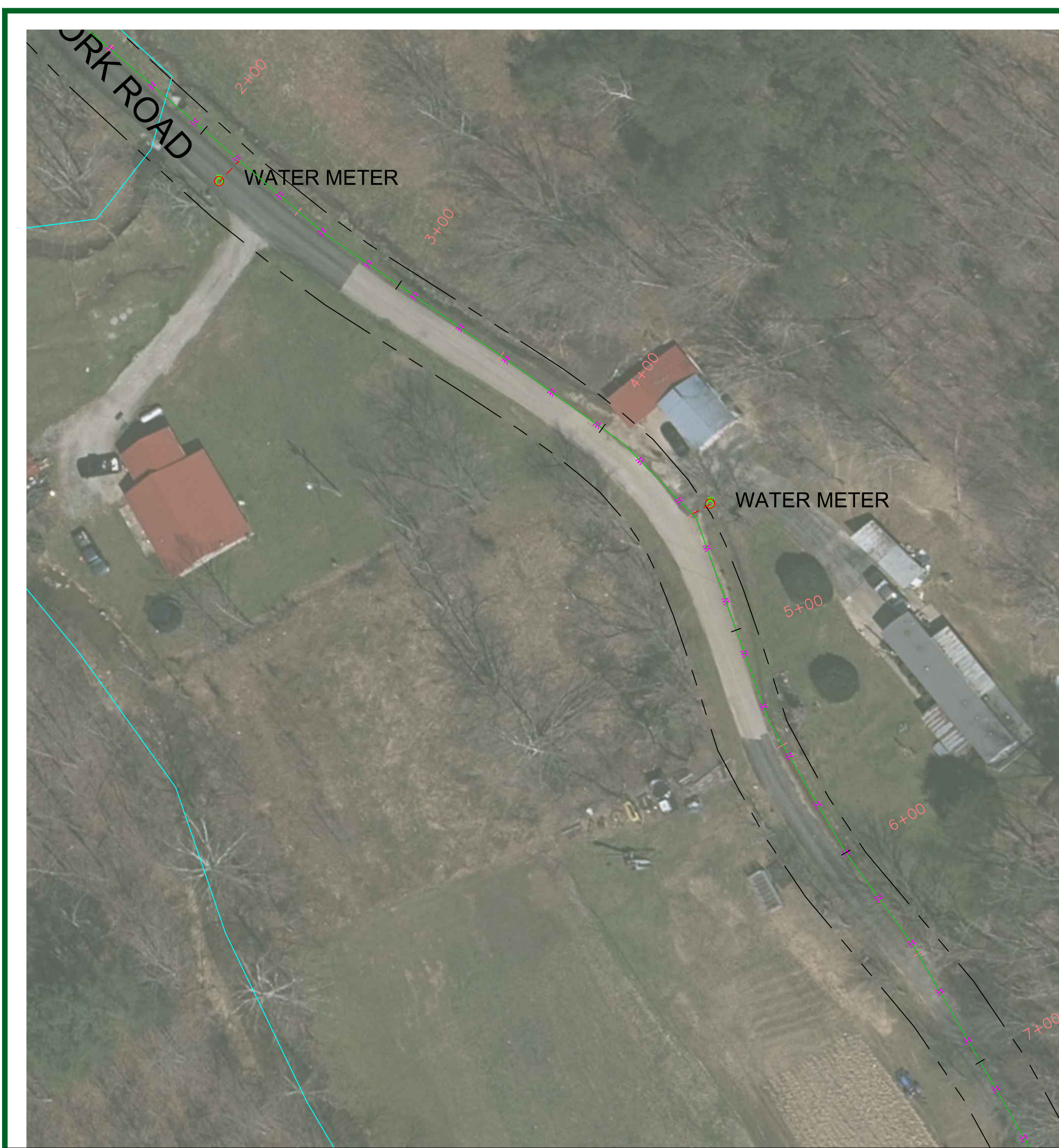
MORGAN COUNTY WATER DISTRICT
KY HWY 191 WATERLINE REPLACEMENT PROJECT - PHASE 2
JOB NO.: 1191.02
DRAWN BY: JCW
DATE: 2-14-22
SCALE: 1" = 40'



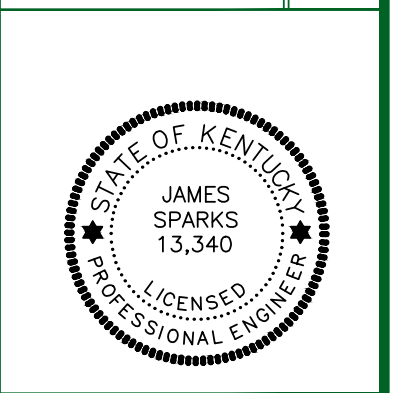
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C-35

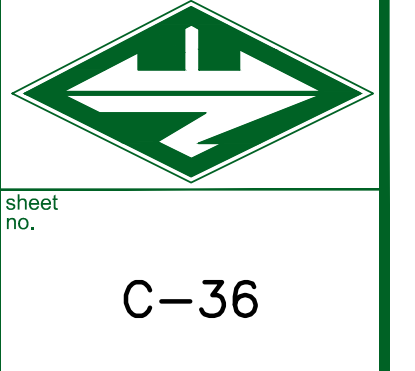
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MORGAN COUNTY WATER DISTRICT
 1009 HWY 172, WEST LIBERTY, KY
 KY 191
 PROPOSED 4" WATERLINE
 WATER METER LOCATIONS



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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" = 40'
 date: 2-14-22



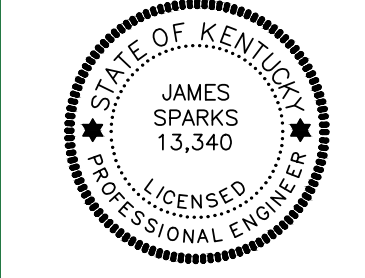
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C-36

LAST PLOTTED ON: 7/29/2022 BY: SPARKS, JAMES H. DRAWING FILE LOCATION: P:\MORGAN COUNTY WATER DISTRICT\1191-02 WATERLINE REPLACEMENT PROJECT PHASE 2\1191-02 DESKTOP\2_WORK\WATERLINE LAYOUT REVISED.DWG



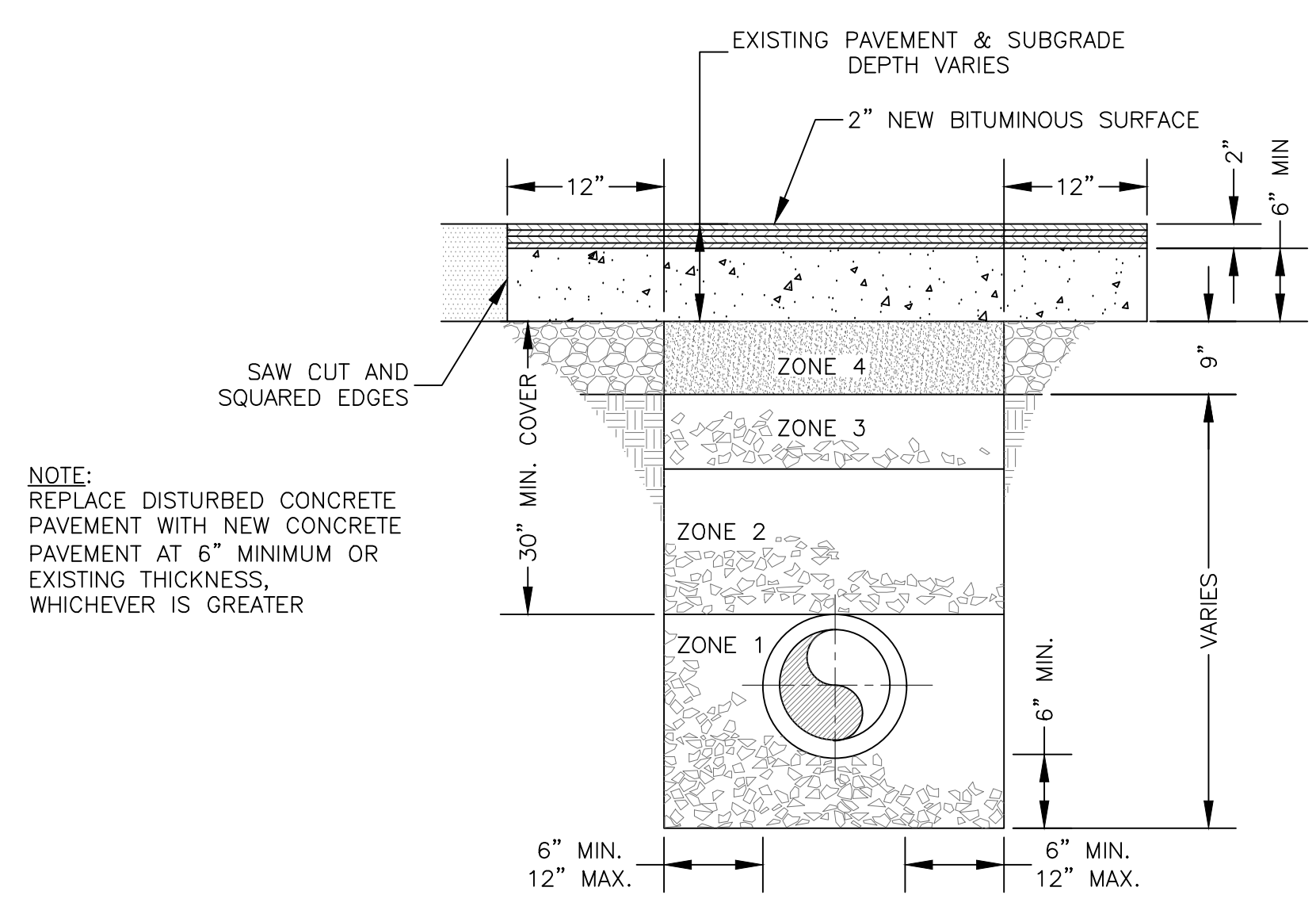
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MORGAN COUNTY WATER DISTRICT
 KY HWY 191 WATERLINE REPLACEMENT PROJECT – PHASE 2
 job no.: 1191.02
 drawn by: JCW
 date: 2-14-22
 scale: 1" = 40'

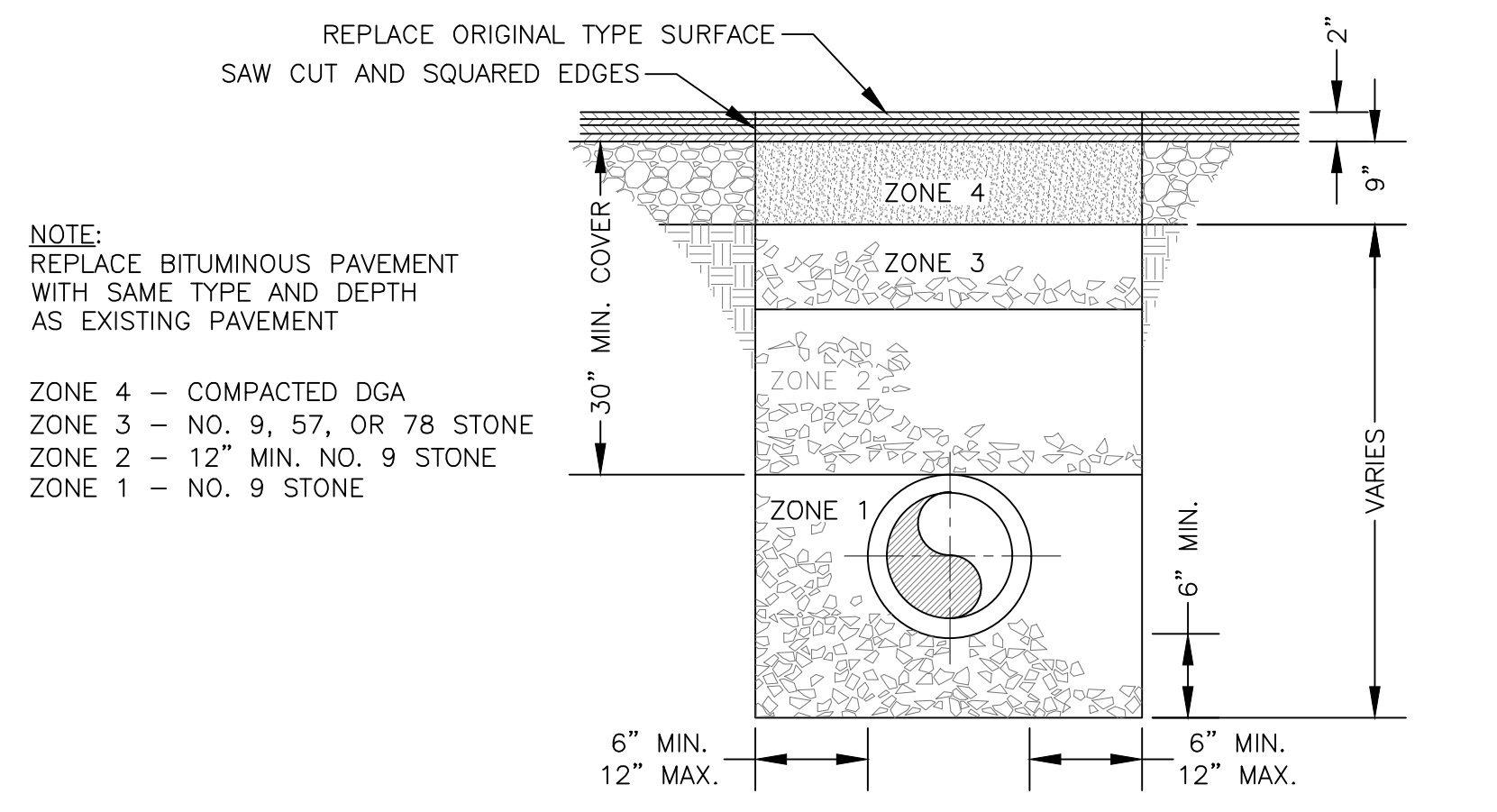


MORGAN COUNTY WATER DISTRICT
 1009 HWY 172, WEST LIBERTY, KY
 KY 191
 PROPOSED 4" WATERLINE
 WATER METER LOCATIONS

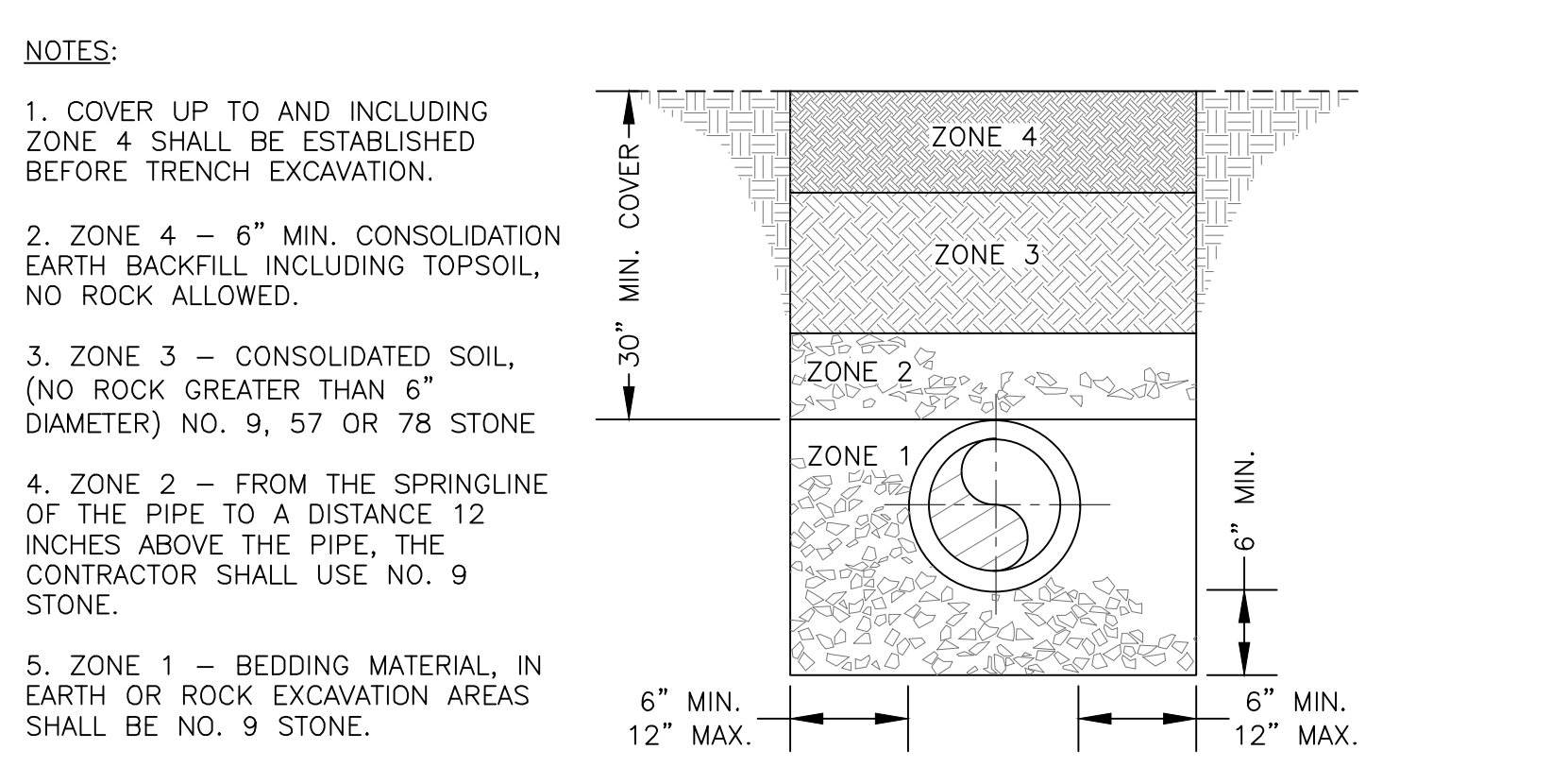
FORMSHEET



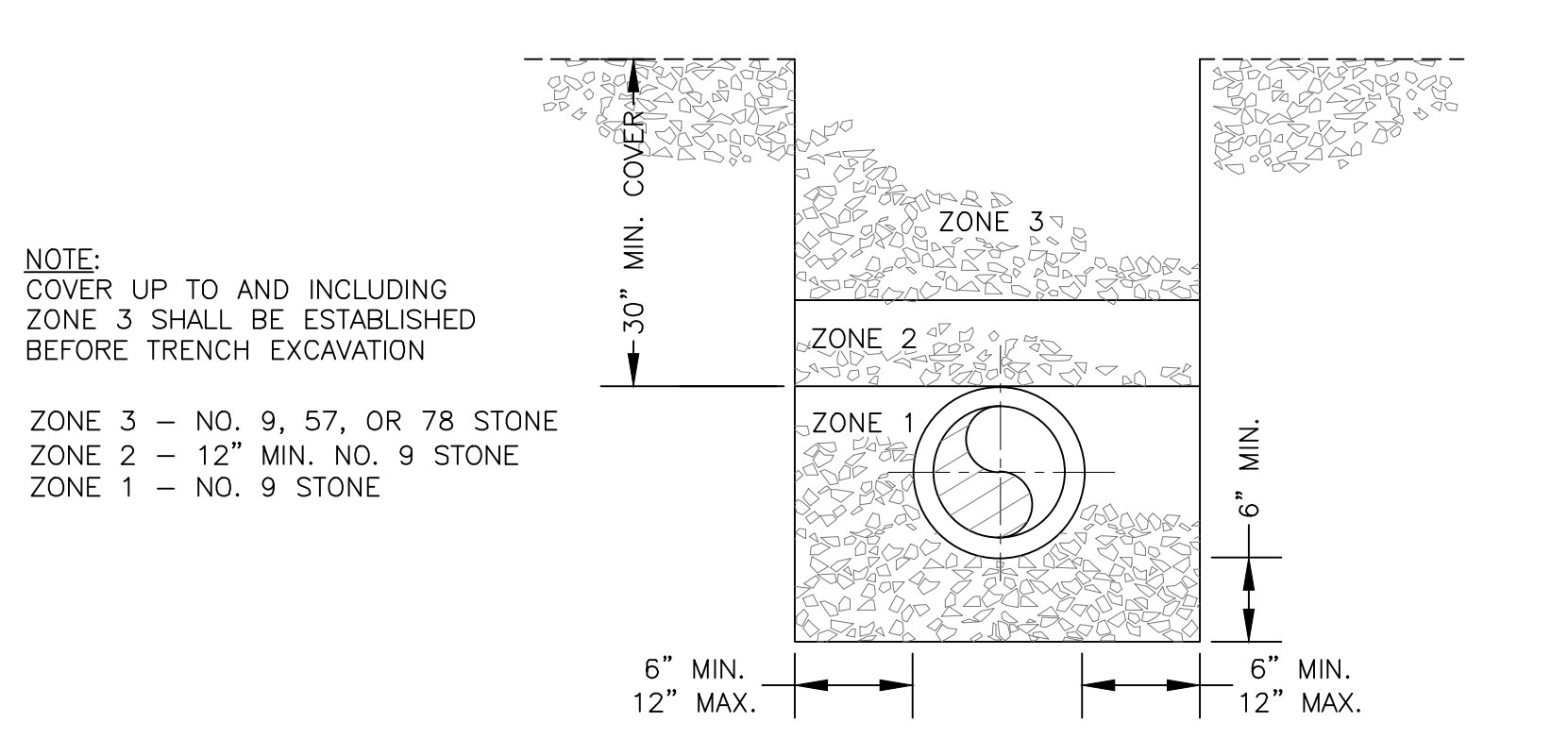
ORIGINAL BITUMINOUS SURFACING OVER 2"



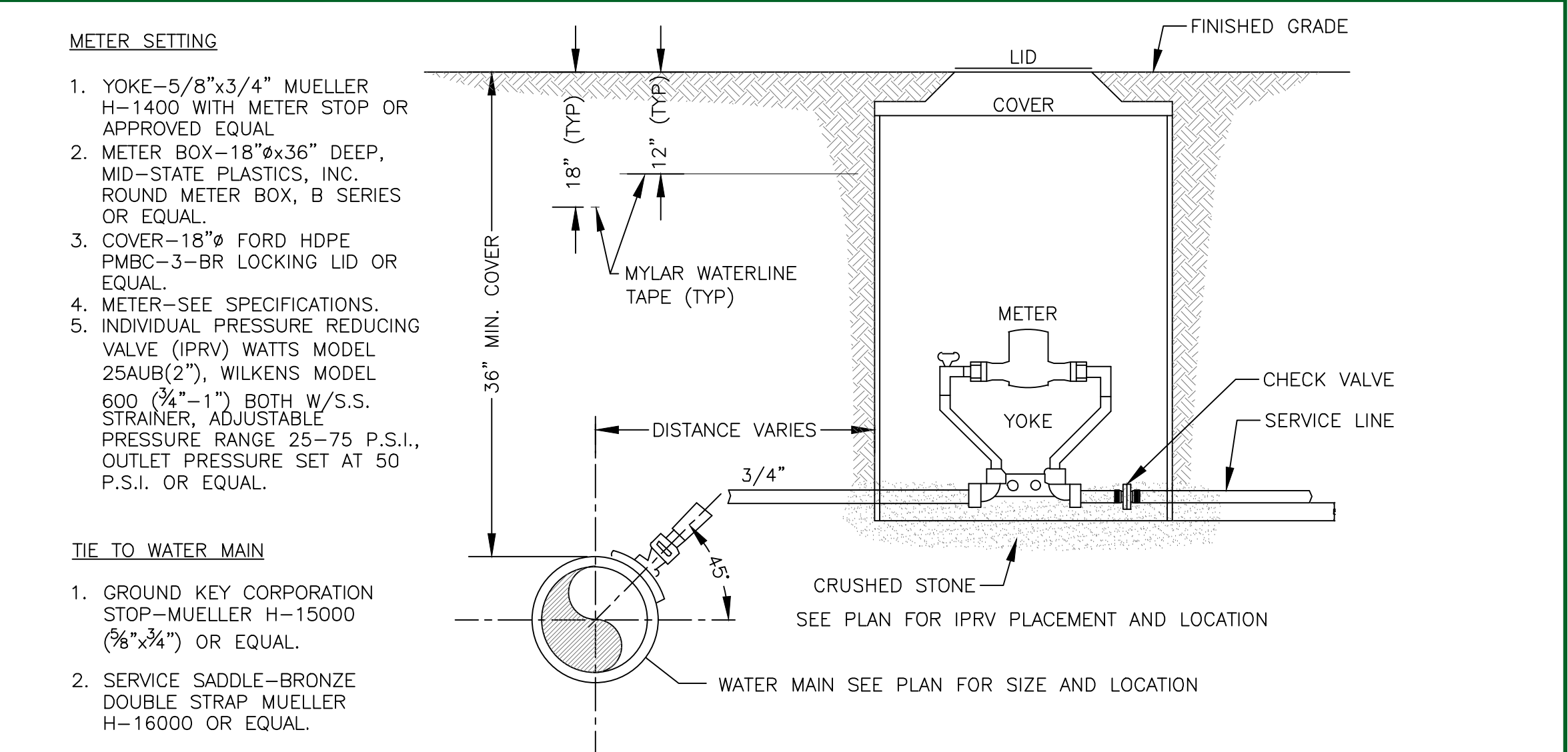
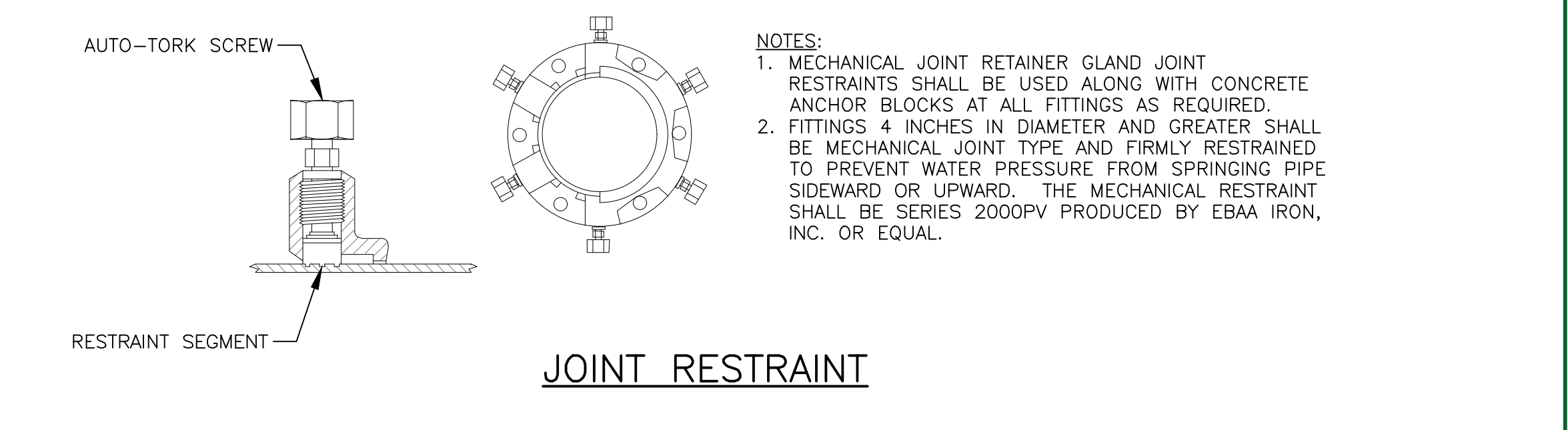
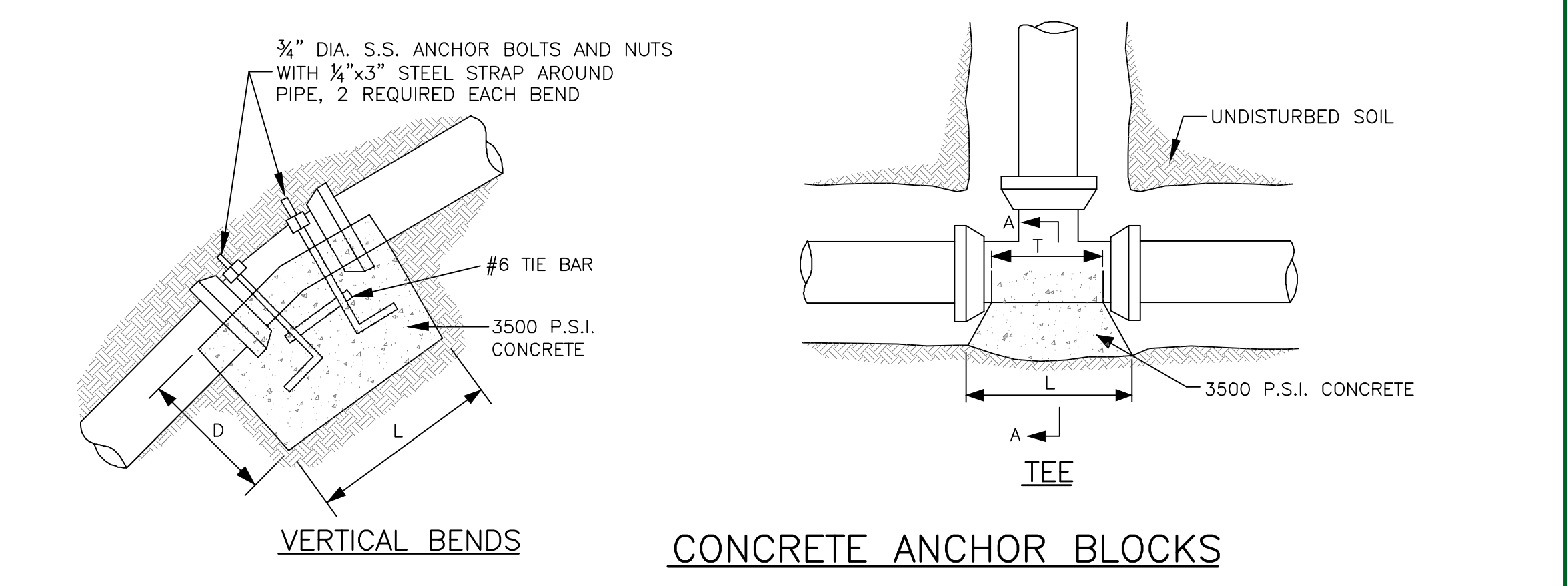
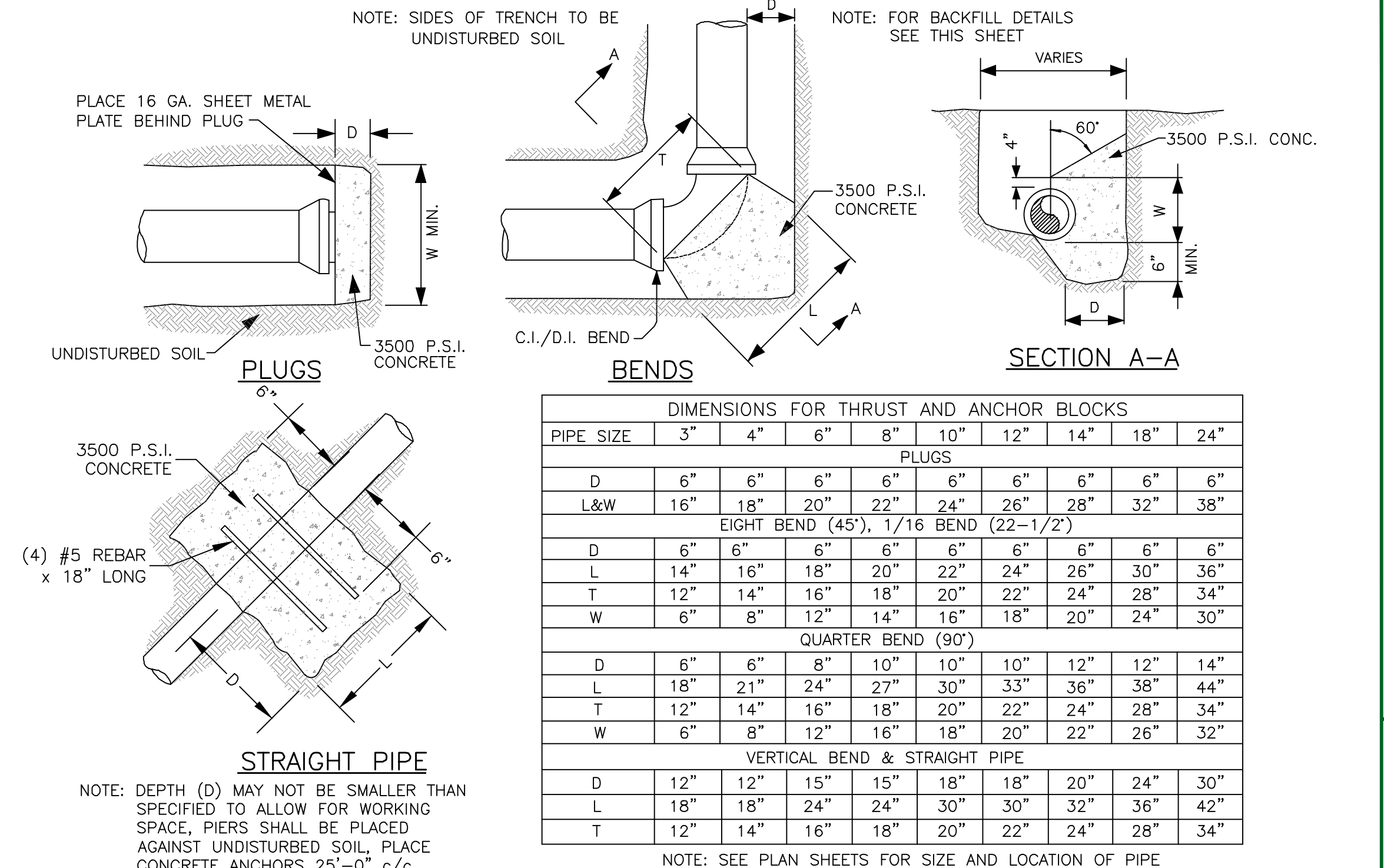
ORIGINAL BITUMINOUS SURFACING 2" OR LESS AND TRAFFIC BOUND MACADAM



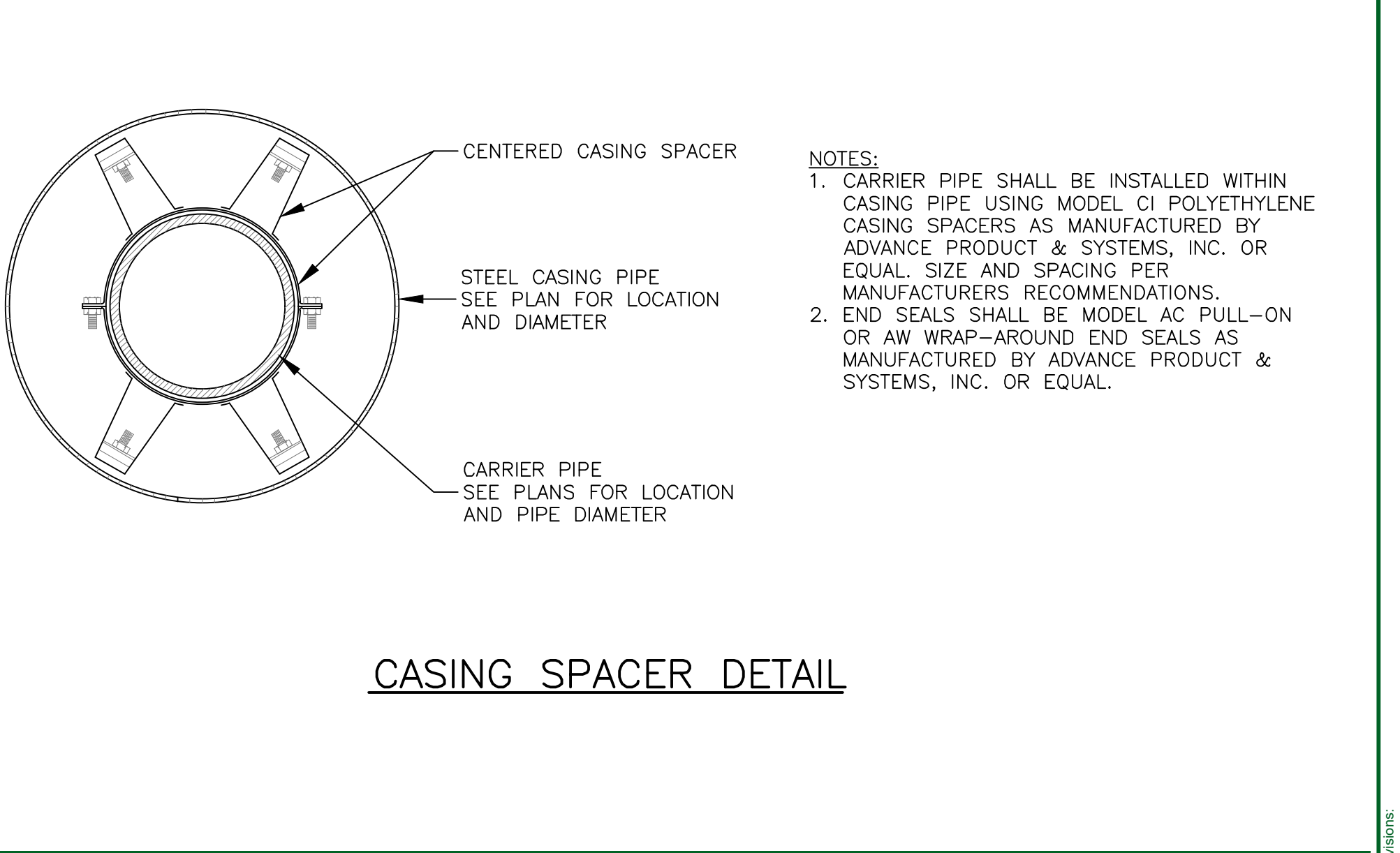
PIPE LAID IN ROCK OR EARTH TRENCH



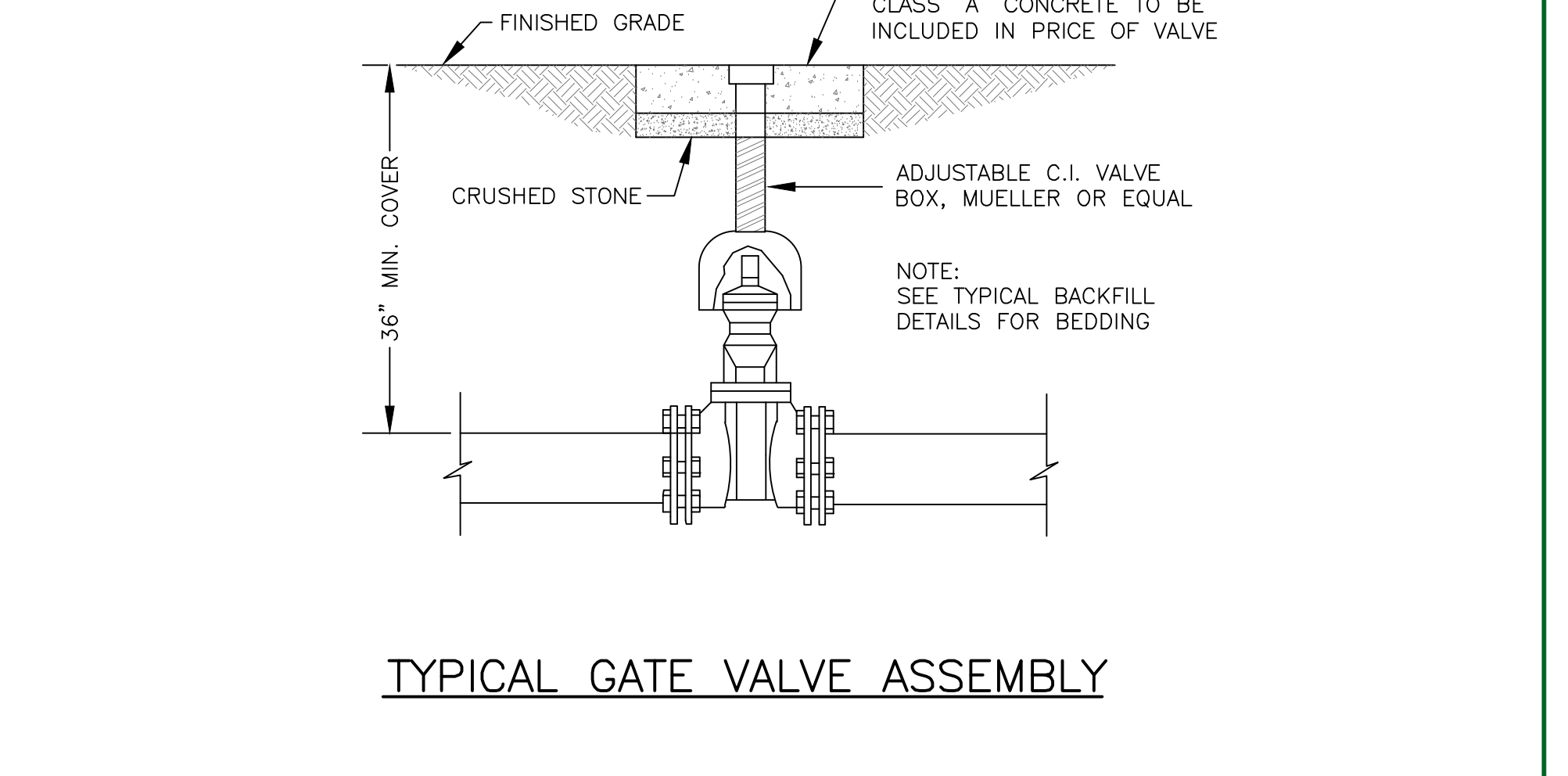
PIPE LAID UNDER GRAVEL DRIVE



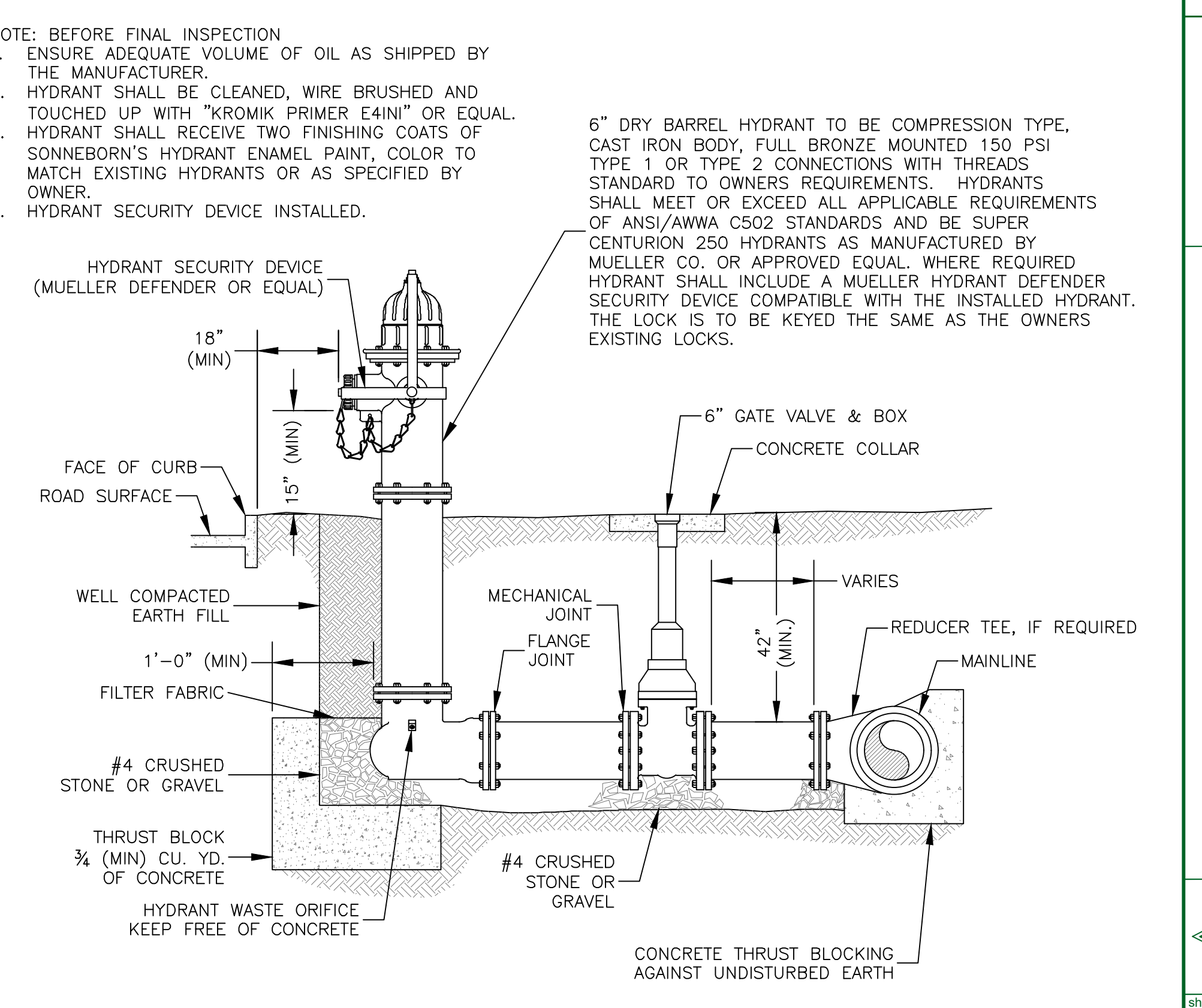
TYPICAL WATER METER ASSEMBLY



CASING SPACER DETAIL



TYPICAL GATE VALVE ASSEMBLY



FLUSHING HYDRANT ASSEMBLY, TYPE 1 & 2

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WEST LIBERTY, KENTUCKY 41472
KY 191 WATERLINE REPLACEMENT

WATERLINE REPLACEMENT DETAILS

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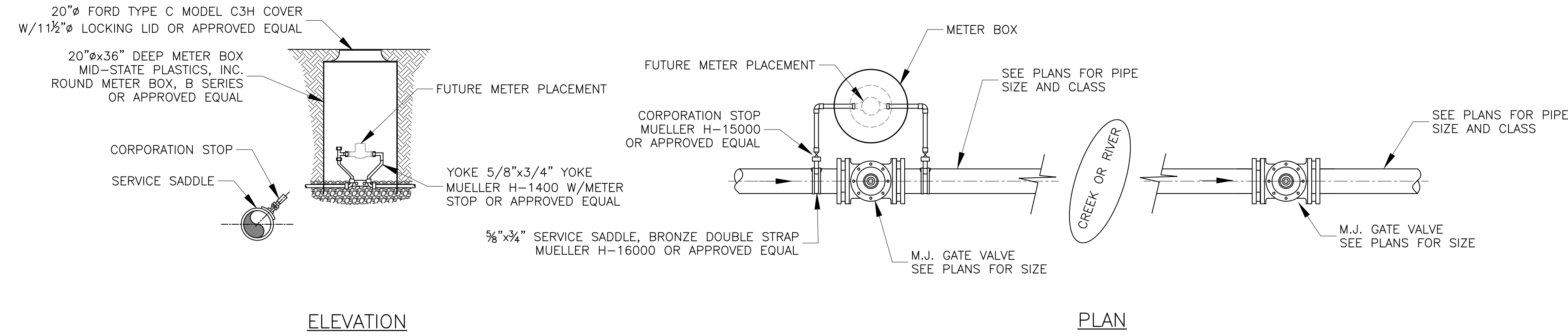
STATE OF KENTUCKY
JAMES SPARKS
13,340
LICENSED PROFESSIONAL ENGINEER

1191.02.03
AS SHOWN

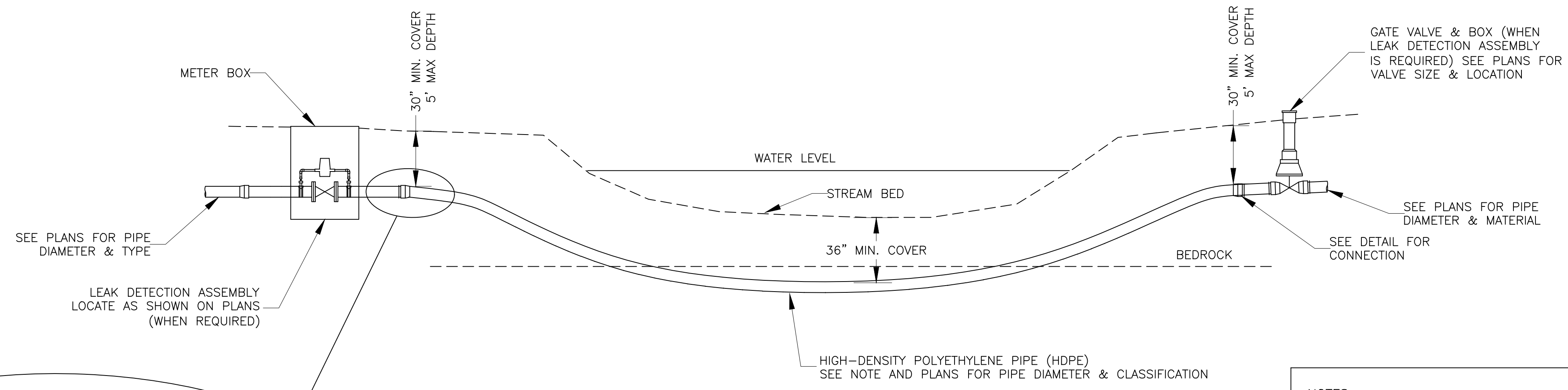
4-6-22

D-1

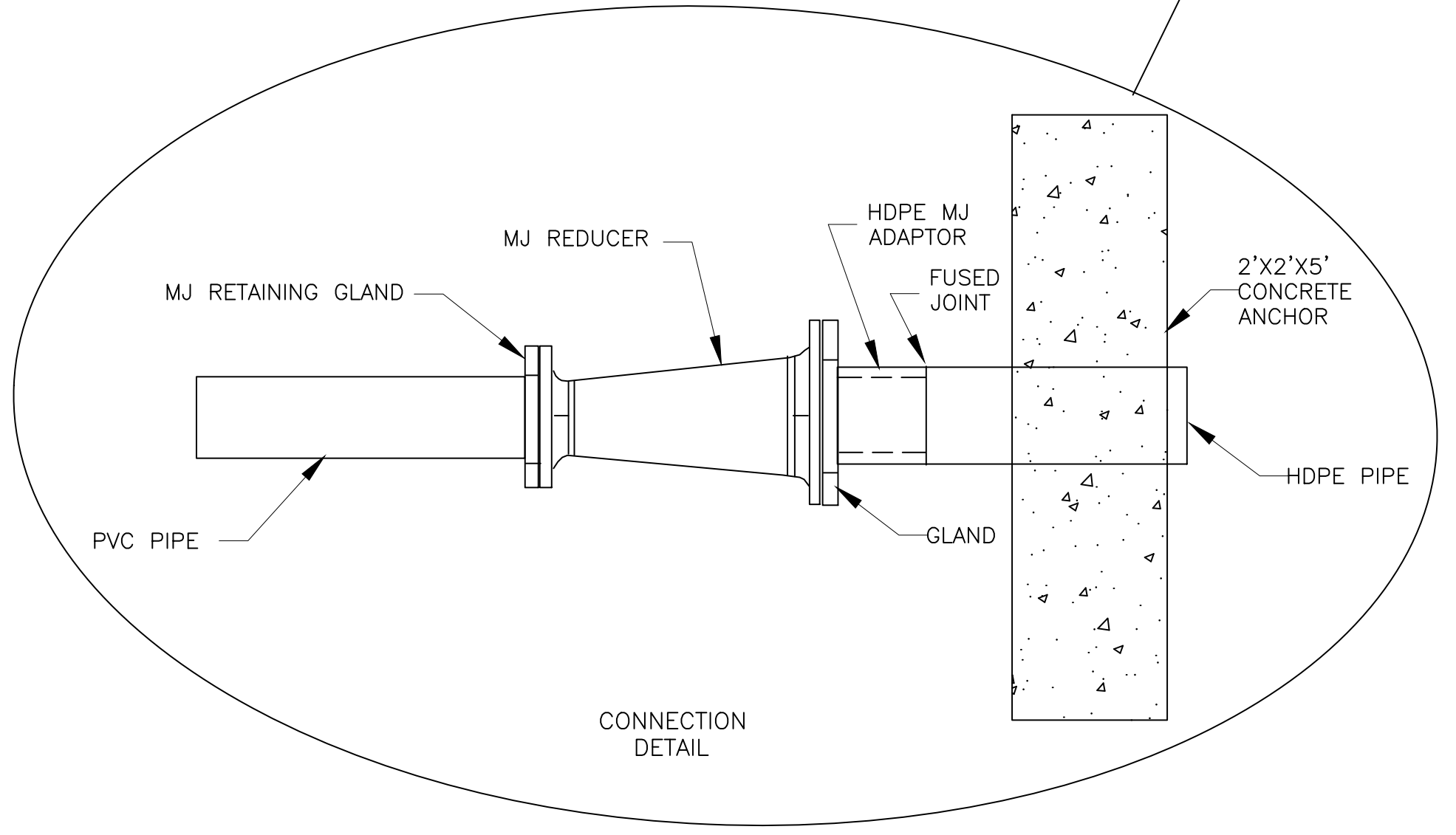
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 LAST PLOTTED ON: 4/9/2022
 BY: SPARKS, JAMES H.



LEAK DETECTION ASSEMBLY
NOT TO SCALE

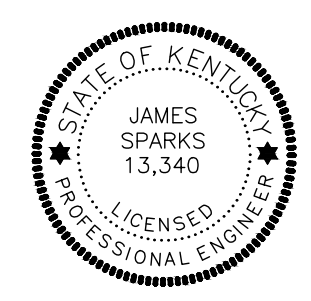


- NOTES:**
1. CONNECTION OF THE HDPE TO THE PVC OR DUCTILE IRON WATERLINE SHALL BE NO DEEPER THAN 5 FEET FROM THE GROUND ELEVATION.
 2. DIRECTIONAL BORE SHALL BE MADE IN BED ROCK WITH A MIN DEPTH OF 36".
 3. WHEN USING HDPE THE PIPE SHALL BE SIZED UP ONE PIPE SIZE TO ALLOW THE I.D. OF THE HDPE TO EQUAL THE I.D. OF THE CONNECTING WATERLINE.
 4. PIPE SHALL BE DRILLED INTO SOLID BEDROCK WITH A MIN. COVER OF 36".
 5. USE ANGLED FITTINGS AS NECESSARY TO MAKE CONNECTION BETWEEN PIPES.
 6. ALL DRILLING MUD MUST BE CAPTURED AND DISPOSED OF OFF SITE IN A PROPER MANNER.



CREEK AND RIVER CROSSING DETAILS
NOT TO SCALE

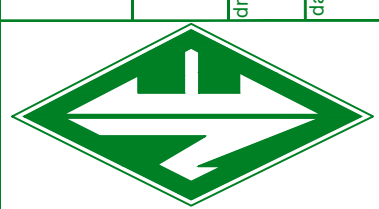
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 DIRECTIONAL DRILLING DETAIL



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MORGAN COUNTY WATER DISTRICT
 WATERLINE REPLACEMENT PROJECT PHASE 2

drawn by: JHS
 date: 11/9/2023
 AS SHOWN



sheet no.

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

The placement of temporary erosion control measures shall not be conducted in a manner that may result in disruption of flow in wetlands or streams. Typical erosion and sediment control methods are shown on the Typical Sediment Control Details drawing in this plan.

Natural vegetation should be retained, protected or supplemented to the maximum extent practical and vegetation not intended for removal should be adequately marked, fenced or flagged as necessary.

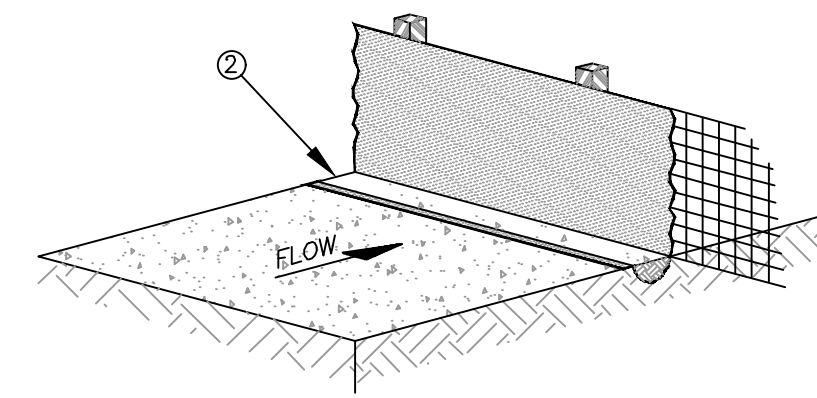
Areas such as sinkholes, streams, wetlands, stream buffers, highly erodible soils and steep slopes should be avoided to the greatest extent feasible. Mark, fence or flag areas that should be protected from construction activities such as clearing, grubbing, grading, mowing, staging activities, material storage and/or other related activities.

Limit site preparation of activities such as grading and clearing to where they are absolutely necessary and consistent with the plan and daily schedules of construction activities.

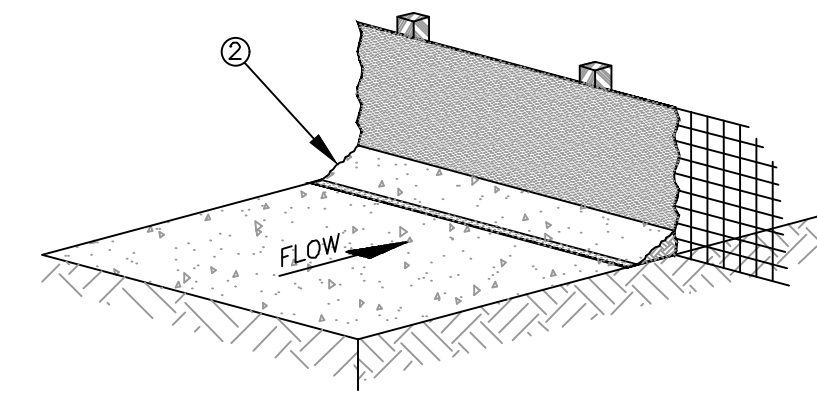
Prevent stormwater from entering areas and leaving areas of disturbed soil by using vegetated strips, diversion dikes and swales, filter berms, sediment traps and basins, check dams, stabilized construction entrances, and sit fences or filter tubes/wattles. Reduce the amount of sediment and water velocity produced from areas of disturbed soils by using vegetation, riprap, sod, seeding and mulching or blankets, as well as the use of structural measures including diversion, check dams, slope drains and storm drain protection.

Stabilize soil with seeding and mulch as soon as possible after disturbance. Soil disturbed by construction activities should be stabilized within 14 days of ceasing construction activities. Erosion prevention measures such as erosion control mats/blankets, mulch, hydro applications, tracking, or soil binders shall be implemented on disturbed areas within 24 hours or as soon as practical after completion of disturbance/grading or following the end of activities. Final stabilization practices shall be initiated on any site where construction activities have been suspended for more than 180 days.

To the extent possible, construction managers should utilize natural or recyclable materials as temporary measures that can remain on-site after the completion of construction. One example is using mulch berms as opposed to silt fences, which must be removed and disposed after the completion of construction activities has occurred and vegetation has become well established.



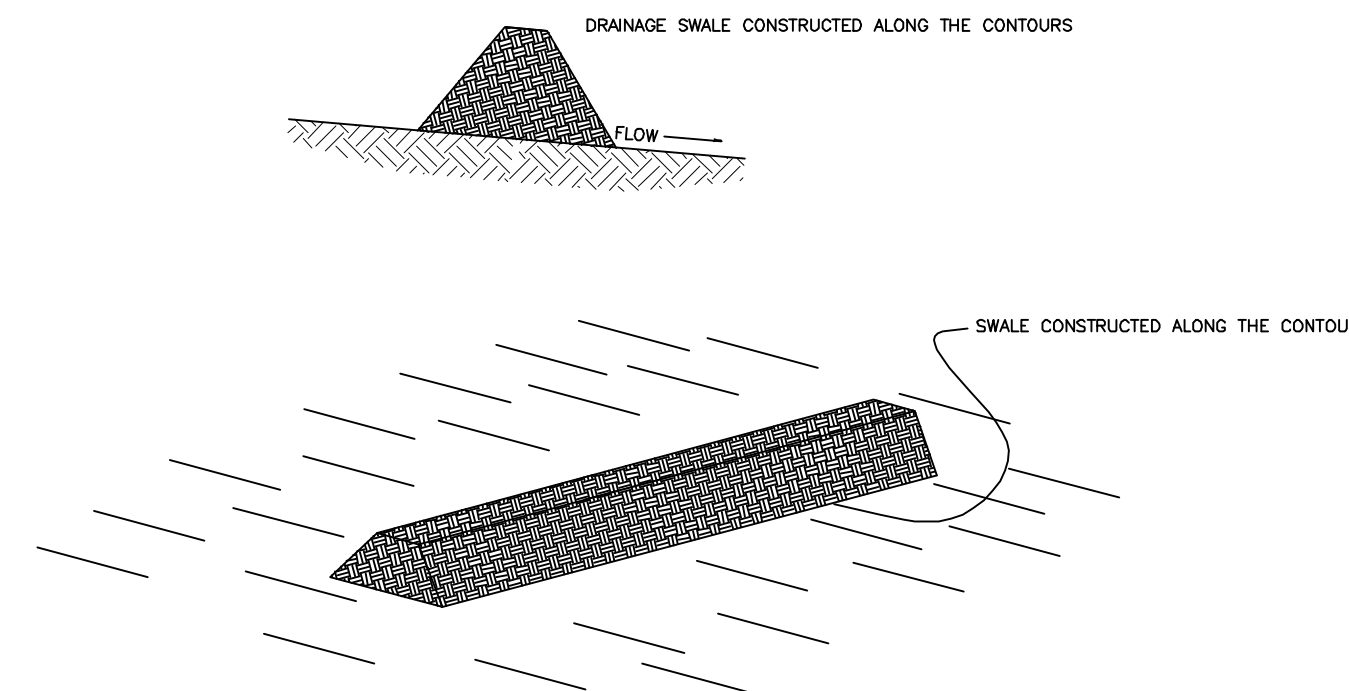
ALTERNATE 1



ALTERNATE 2

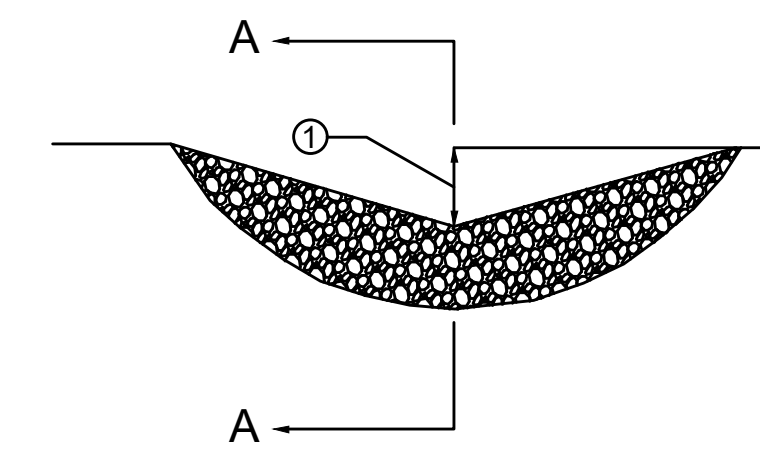
- NOTES
1. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
 2. THE BOTTOM 12 INCHES OF FABRIC SHALL BE BURIED IN A 6 INCH TRENCH CUT INTO THE GROUND OR COVERED BY 6 INCHES OF FILL MATERIAL, TO PREVENT SEDIMENT ESCAPING UNDER FENCE. ALL EARTHWORK SHALL BE ON THE UPSTREAM SIDE OF FENCE.

SILT CHECK FENCE
SEDIMENTATION CONTROL
NOT TO SCALE

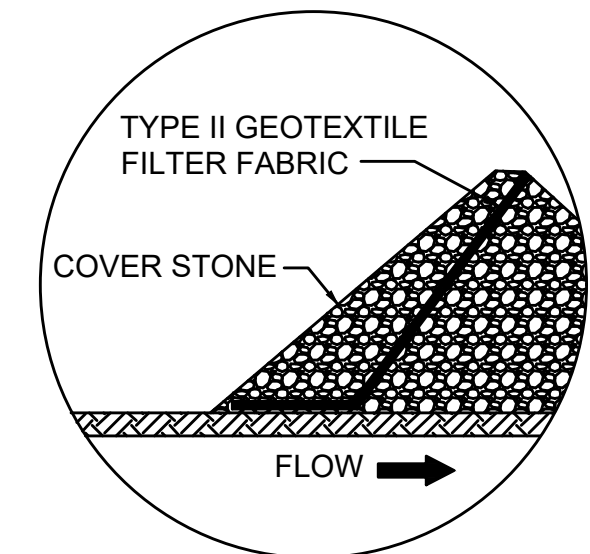
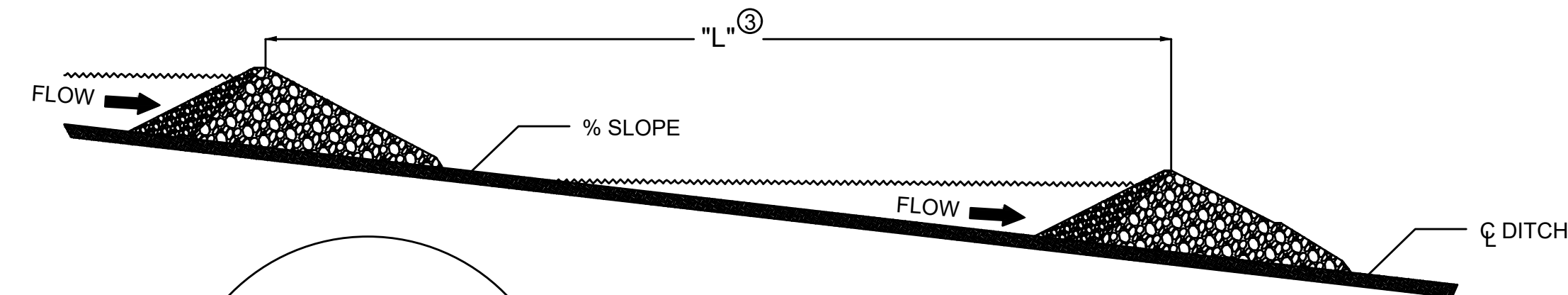


NOTE:
DRAINAGE SWALES SHALL BE PLACED WHERE NEEDED TO PROVIDE PROPER EROSION CONTROL UNTIL REVEGETATION IS COMPLETED.

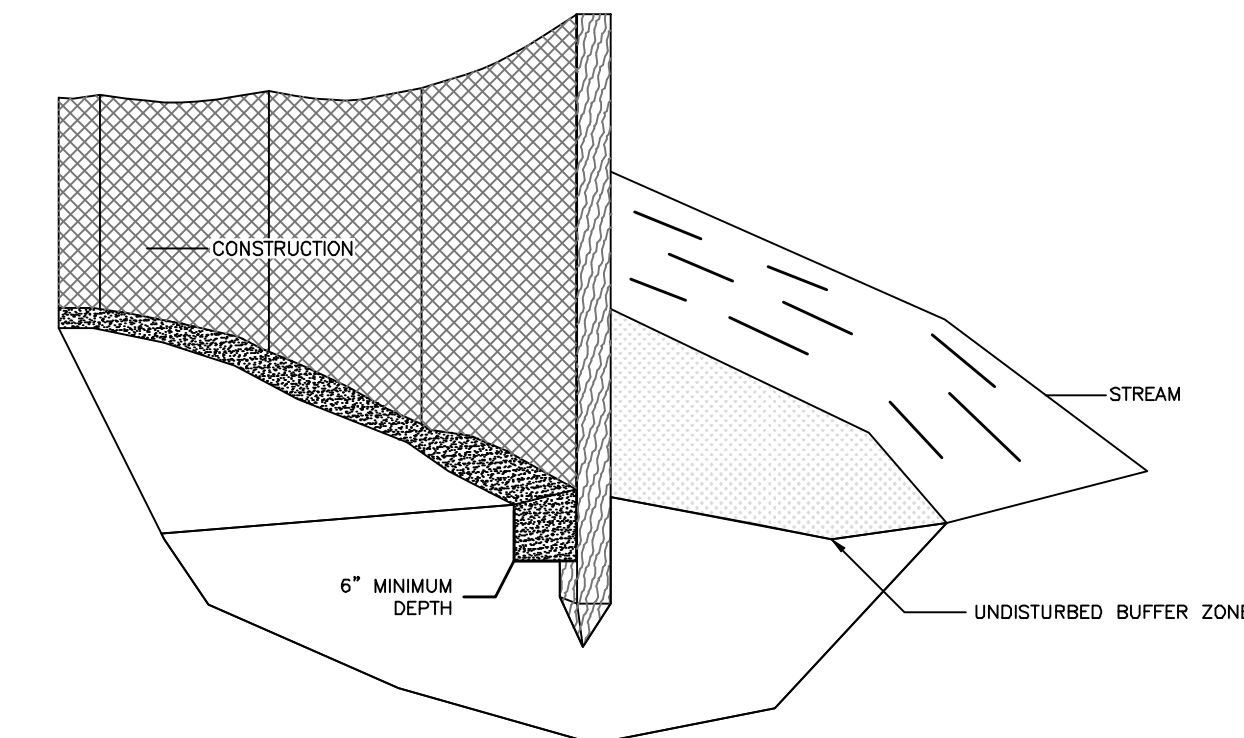
DRAINAGE SWALE SILT CHECK
SEDIMENTATION CONTROL
NOT TO SCALE



SECTION "A - A"



DETAIL "A"

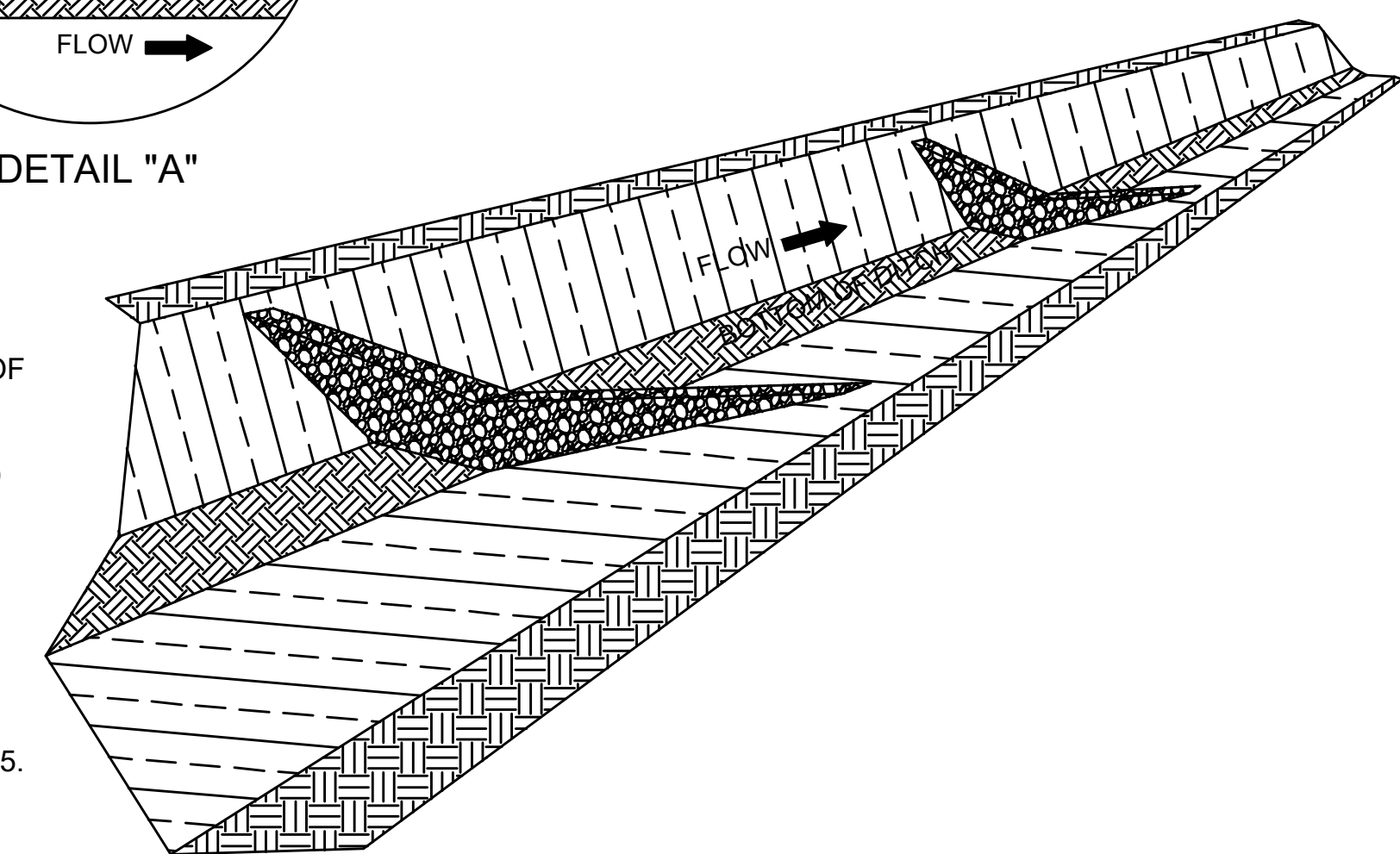


- NOTES
1. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE.
 2. STORMWATER PERMIT IS RESPONSIBILITY OF CONTRACTOR.

SILT CHECK FENCE
SEDIMENTATION CONTROL
NOT TO SCALE

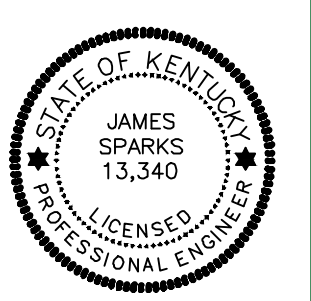
NOTES

- ① MIDDLE OF SILT TRAP SHALL BE A MINIMUM OF 1' - 0" LOWER THAN SIDES SO FLOW WILL NOT BYPASS TRAP OR ERODE BANKS.
- ② UPSTREAM FACE OF SILT TRAP SHALL BE A FOUR INCH MIN. LAYER OF CRUSHED AGGREGATE HAVING 100% PASSING A 3" SIEVE AND NO MORE THAN 5% PASSING A NO. 8 SIEVE (SEE SECTION "A - A"). LINE UPSTREAM FACE WITH FILTER FABRIC UP TO BOTTOM OF THE V AND COVER FABRIC WITH STONE TO HOLD IN PLACE (SEE DETAIL "A").
- ③ "L" = "H"/SLOPE OF DITCH
- ④ SPACE SILT TRAPS AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. SILT TRAP TYPE B SHALL BE USED ON ALL SLOPES GREATER THAN 25.
6. SILT TRAP TYPE B MAY BE USED ON ALL SLOPES LESS THAN 2%.



TYPE B SILT TRAP
NOT TO SCALE

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