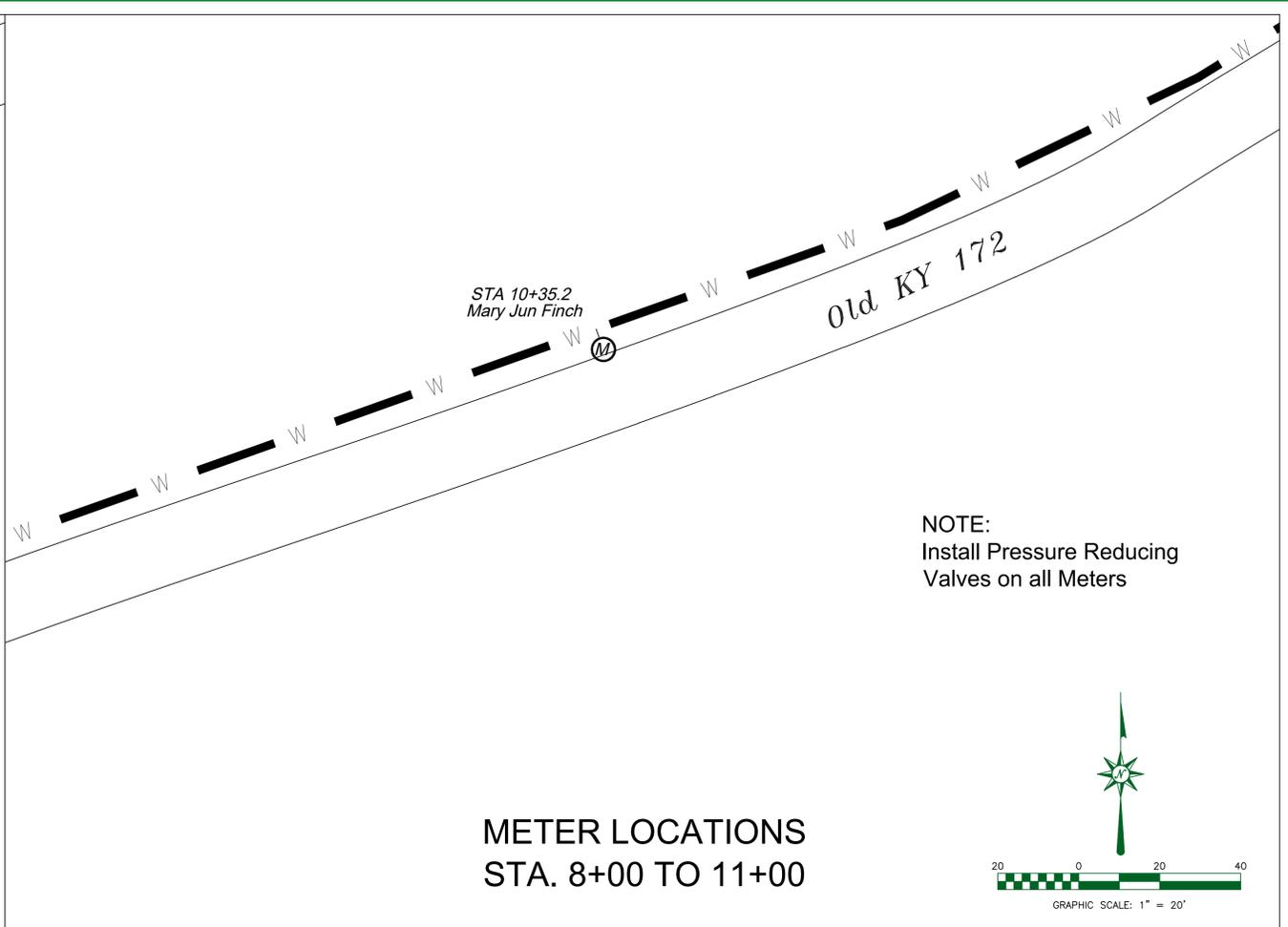
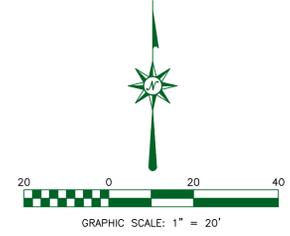
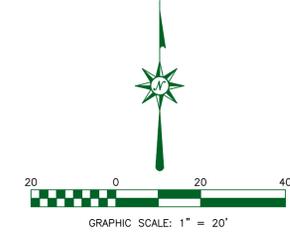


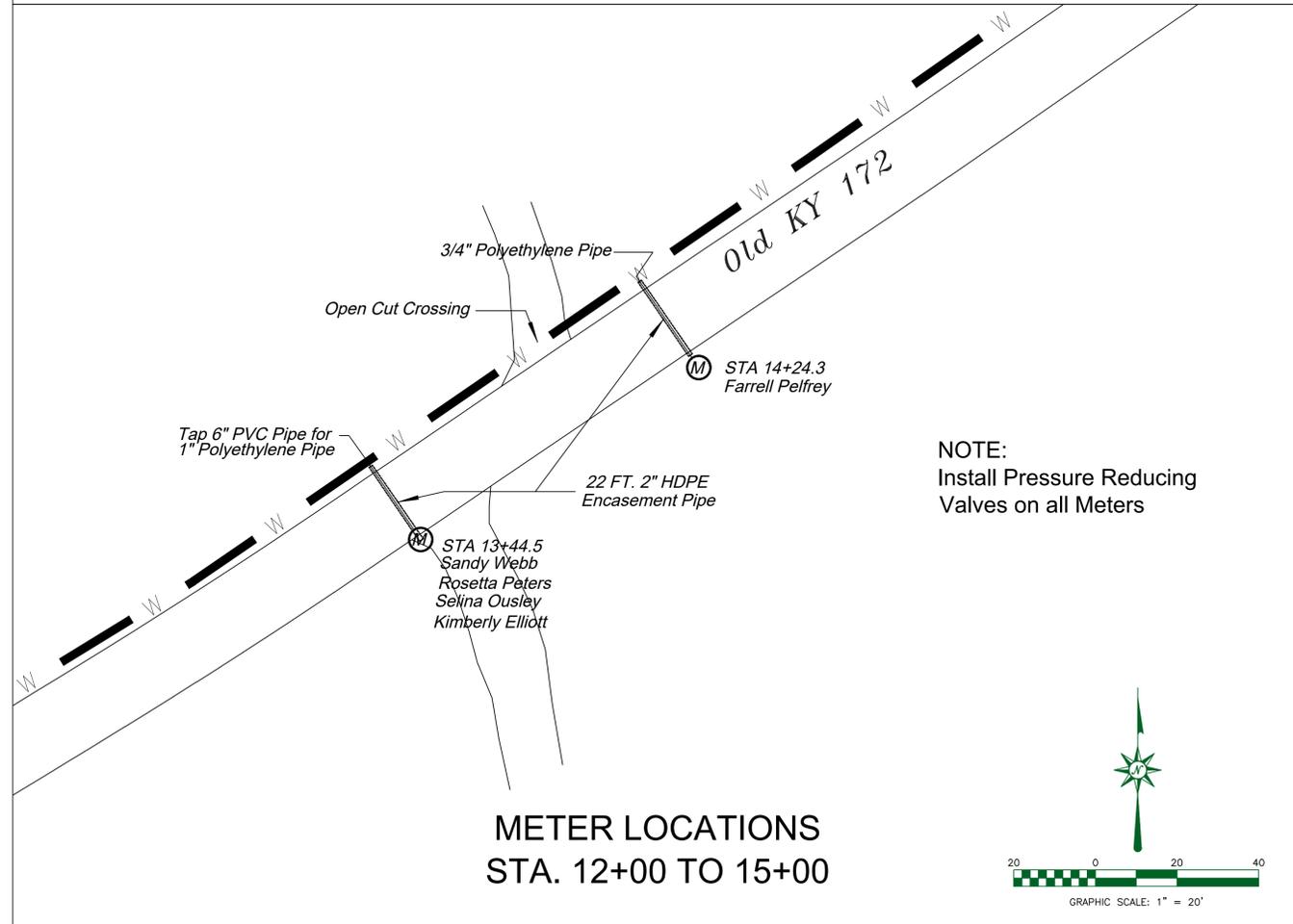
METER LOCATIONS  
STA. 5+00 TO 8+00



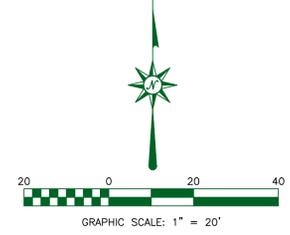
METER LOCATIONS  
STA. 8+00 TO 11+00



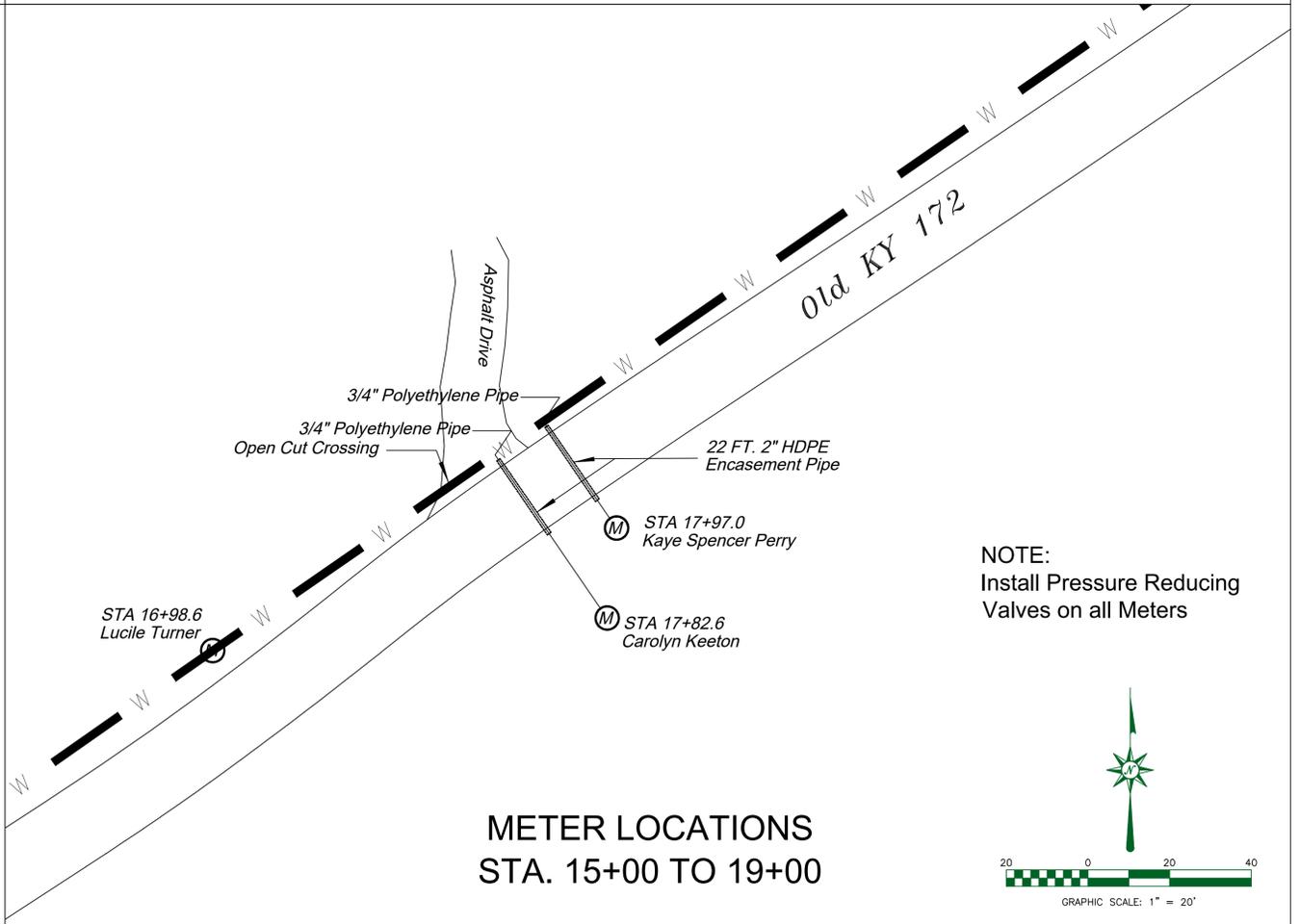
NOTE:  
Install Pressure Reducing  
Valves on all Meters



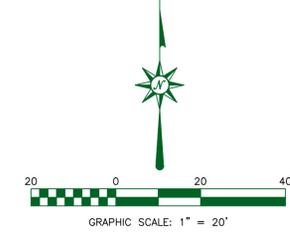
METER LOCATIONS  
STA. 12+00 TO 15+00



NOTE:  
Install Pressure Reducing  
Valves on all Meters



METER LOCATIONS  
STA. 15+00 TO 19+00



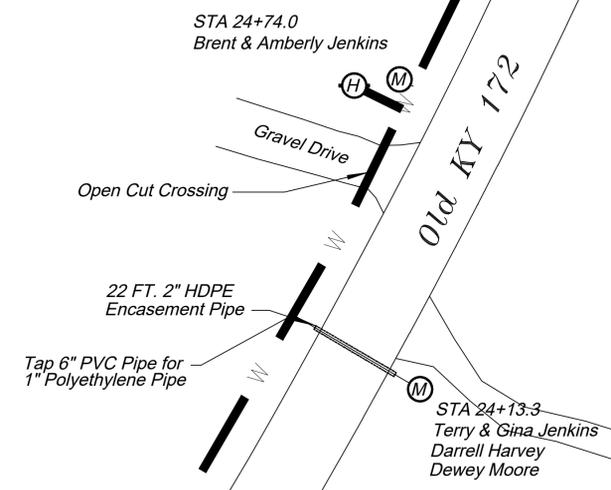
NOTE:  
Install Pressure Reducing  
Valves on all Meters

MORGAN COUNTY WATER DISTRICT  
 408 PRESTONSBURG STREET  
 WEST LIBERTY, KENTUCKY 41472  
 MORGAN COUNTY  
 WATERLINE REPLACEMENT

James Sparks  
 STATE OF KENTUCKY  
 JAMES SPARKS  
 13,340  
 LICENSED PROFESSIONAL ENGINEER

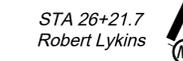
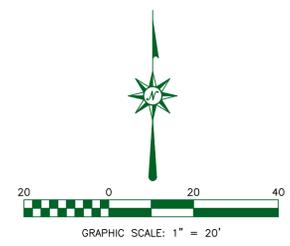
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 WATERLINE REPLACEMENT PROJECT PHASE 1  
 job no.: 1197.01.03  
 AS SHOWN  
 drawn by: JHS  
 date: 3-10-20

sheet no.: C-8



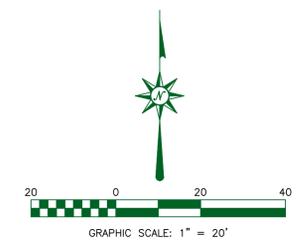
METER LOCATIONS  
STA. 23+00 TO 25+00

NOTE:  
Install Pressure Reducing  
Valves on all Meters



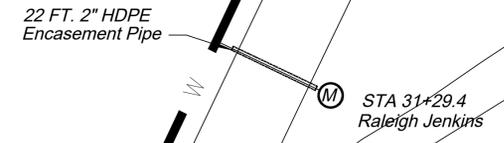
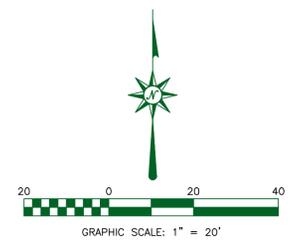
METER LOCATIONS  
STA. 25+00 TO 28+00

NOTE:  
Install Pressure Reducing  
Valves on all Meters



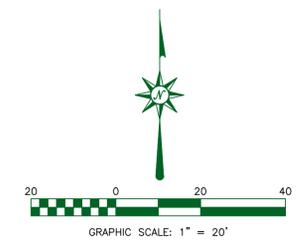
METER LOCATIONS  
STA. 26+00 TO 30+00

NOTE:  
Install Pressure Reducing  
Valves on all Meters



METER LOCATIONS  
STA. 30+00 TO 32+00

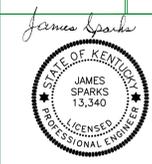
NOTE:  
Install Pressure Reducing  
Valves on all Meters



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MORGAN COUNTY WATER DISTRICT  
408 PRESTONSBURG STREET  
WEST LIBERTY, KENTUCKY 41472  
MORGAN COUNTY

WATERLINE REPLACEMENT



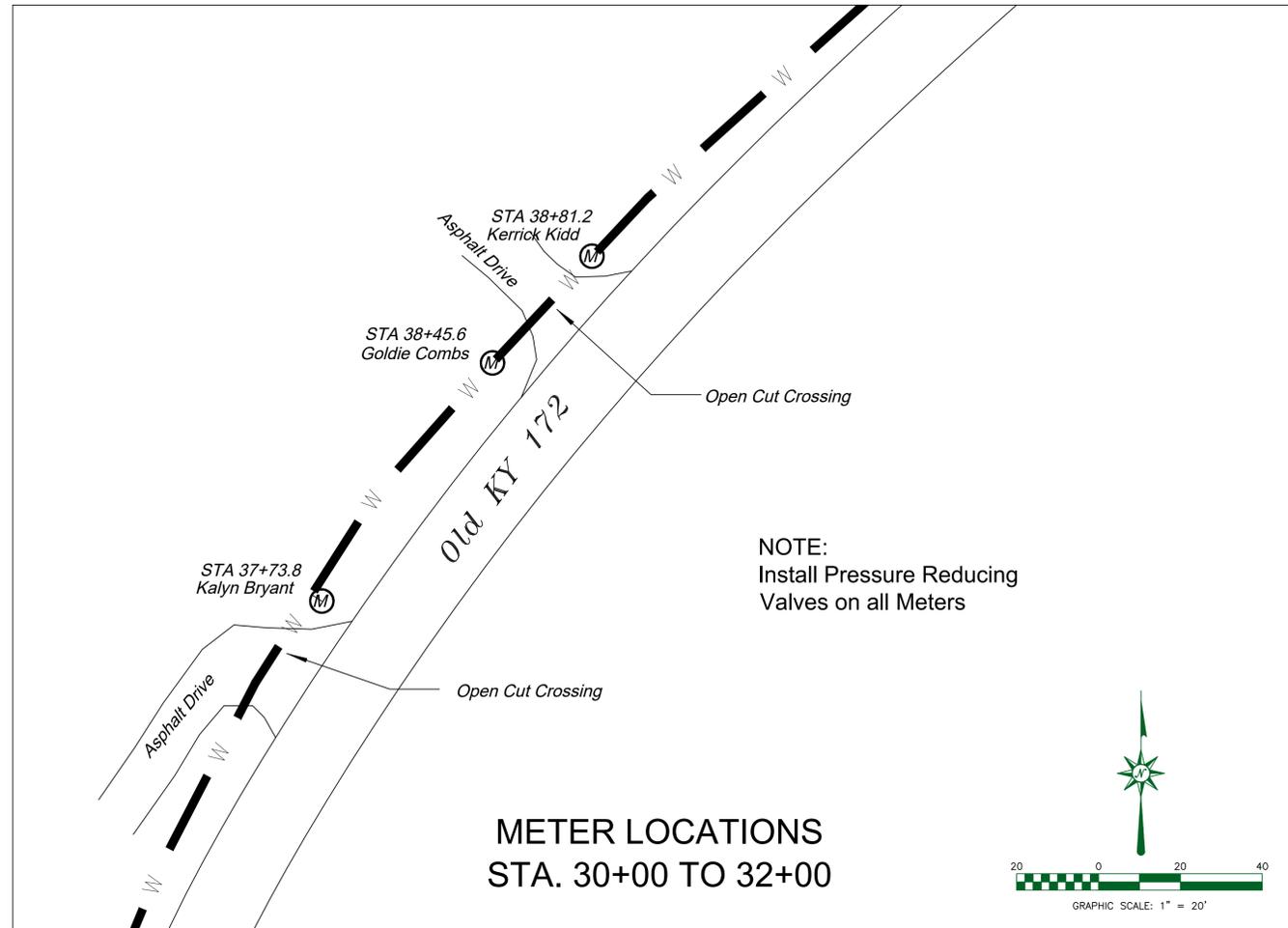
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WATERLINE REPLACEMENT PROJECT PHASE 1

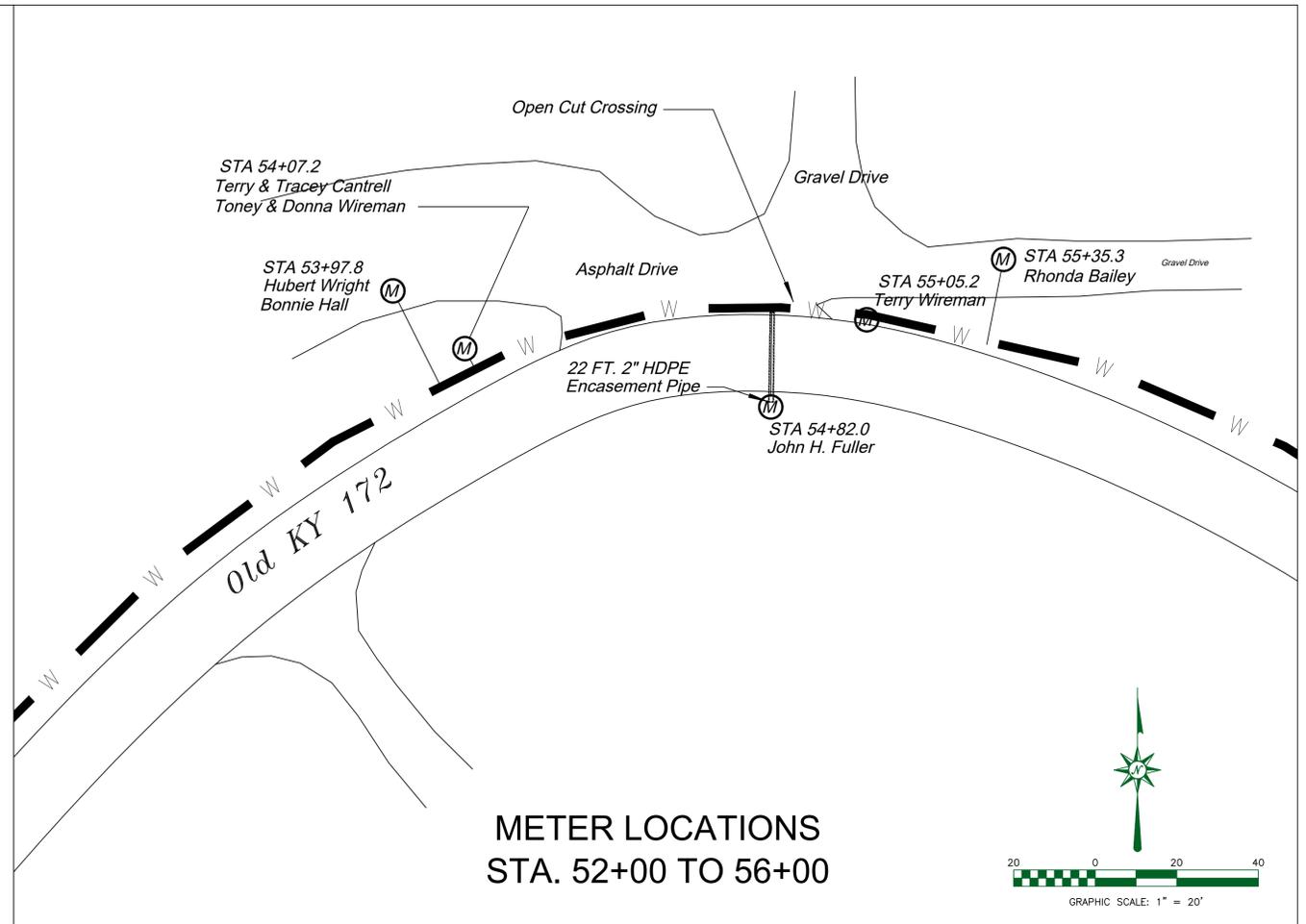
drawn by: JHS  
date: 11/9/2013  
job no.: 1197.01.03  
sheet no.: AS SHOWN



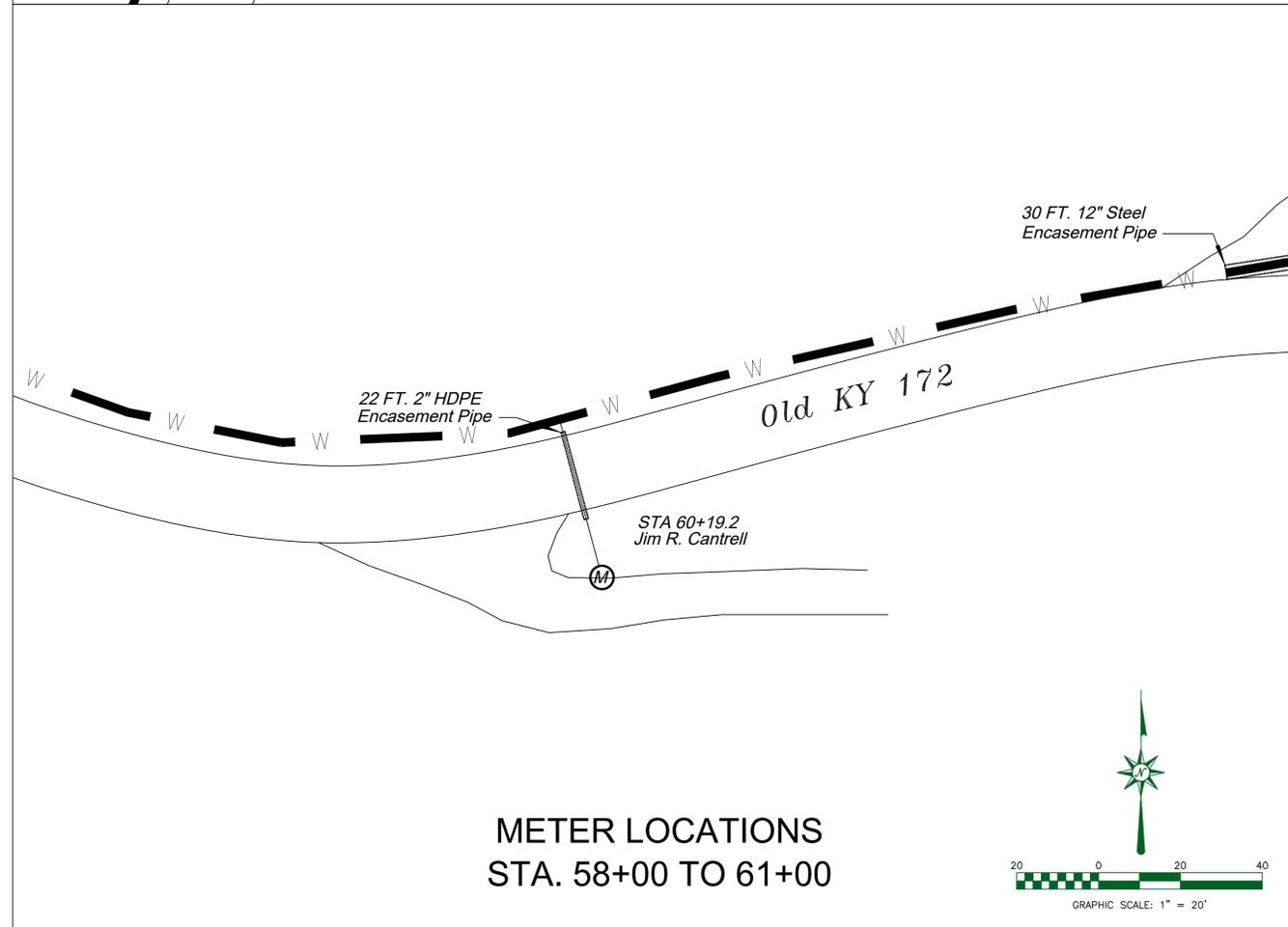
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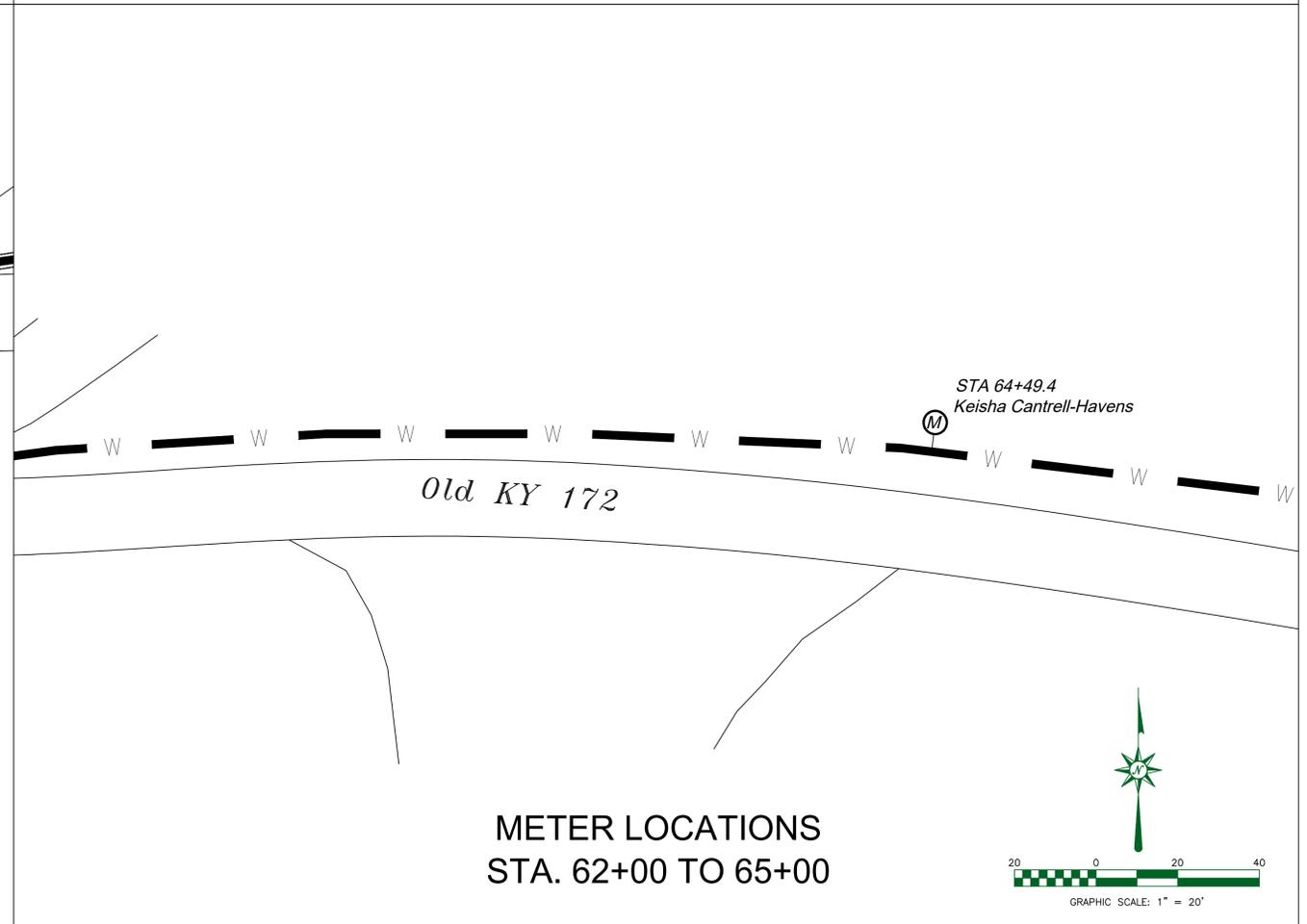
METER LOCATIONS  
STA. 30+00 TO 32+00



METER LOCATIONS  
STA. 52+00 TO 56+00



METER LOCATIONS  
STA. 58+00 TO 61+00



METER LOCATIONS  
STA. 62+00 TO 65+00

MORGAN COUNTY WATER DISTRICT  
408 PRESTONSBURG STREET  
WEST LIBERTY, KENTUCKY 41472  
MORGAN COUNTY

WATERLINE REPLACEMENT

James Sparks  
STATE OF KENTUCKY  
JAMES SPARKS  
13,340  
LICENSED PROFESSIONAL ENGINEER

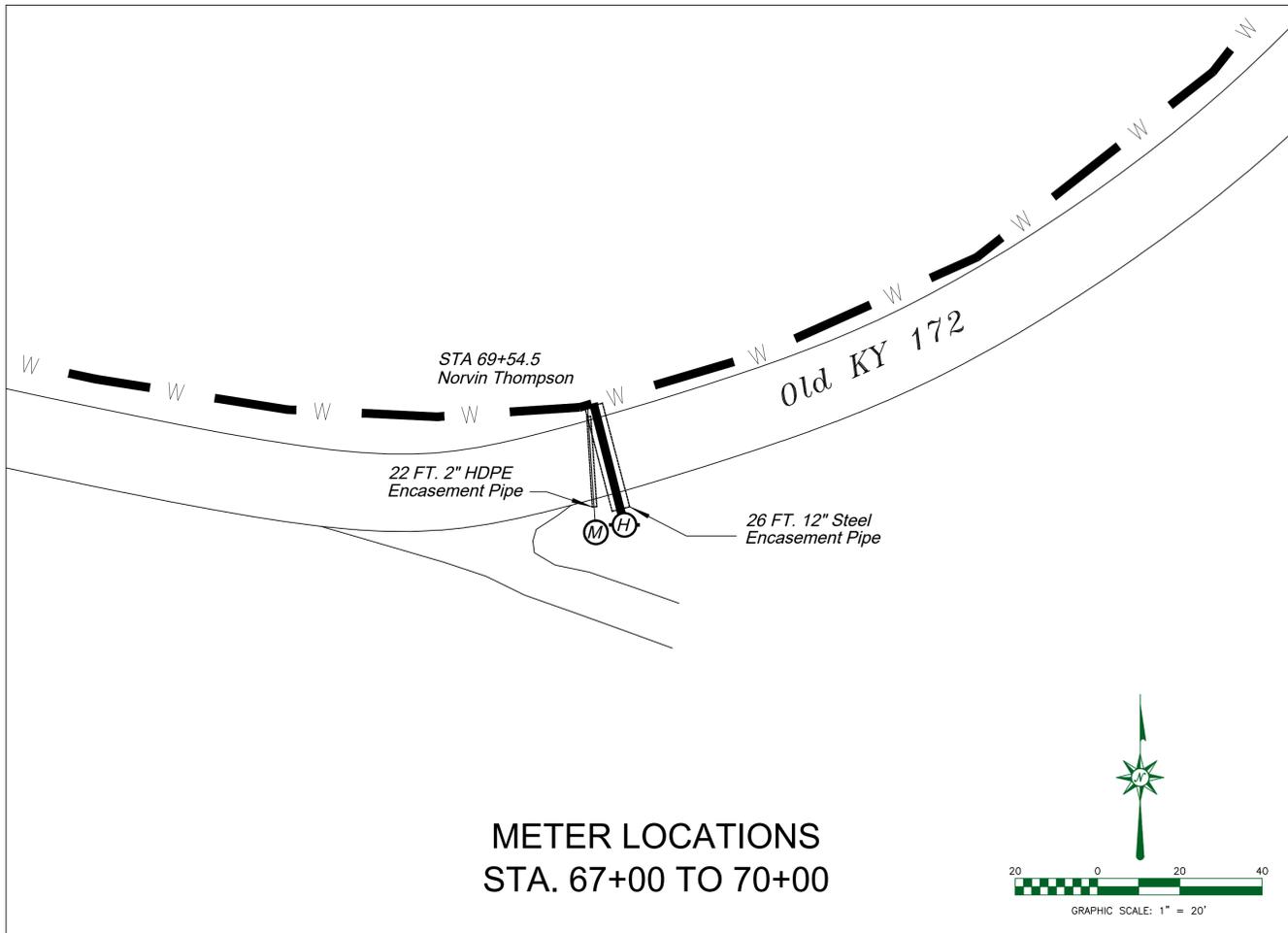
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MORGAN COUNTY WATER DISTRICT  
WATERLINE REPLACEMENT PROJECT PHASE 1

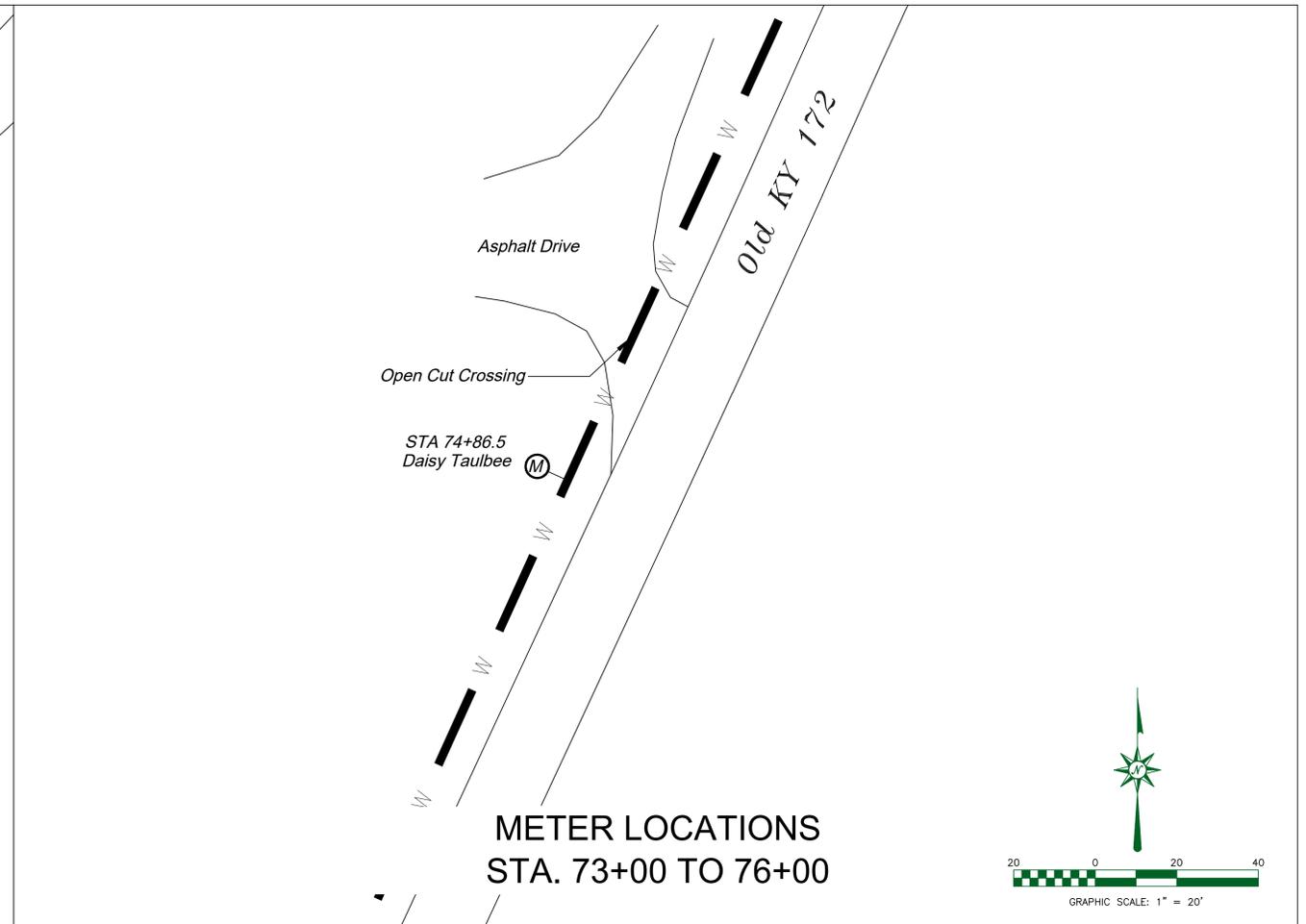
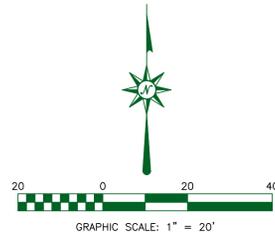
drawn by: JHS  
date: 11/97.01.03  
AS SHOWN  
3-10-20

Sheet No. C-10

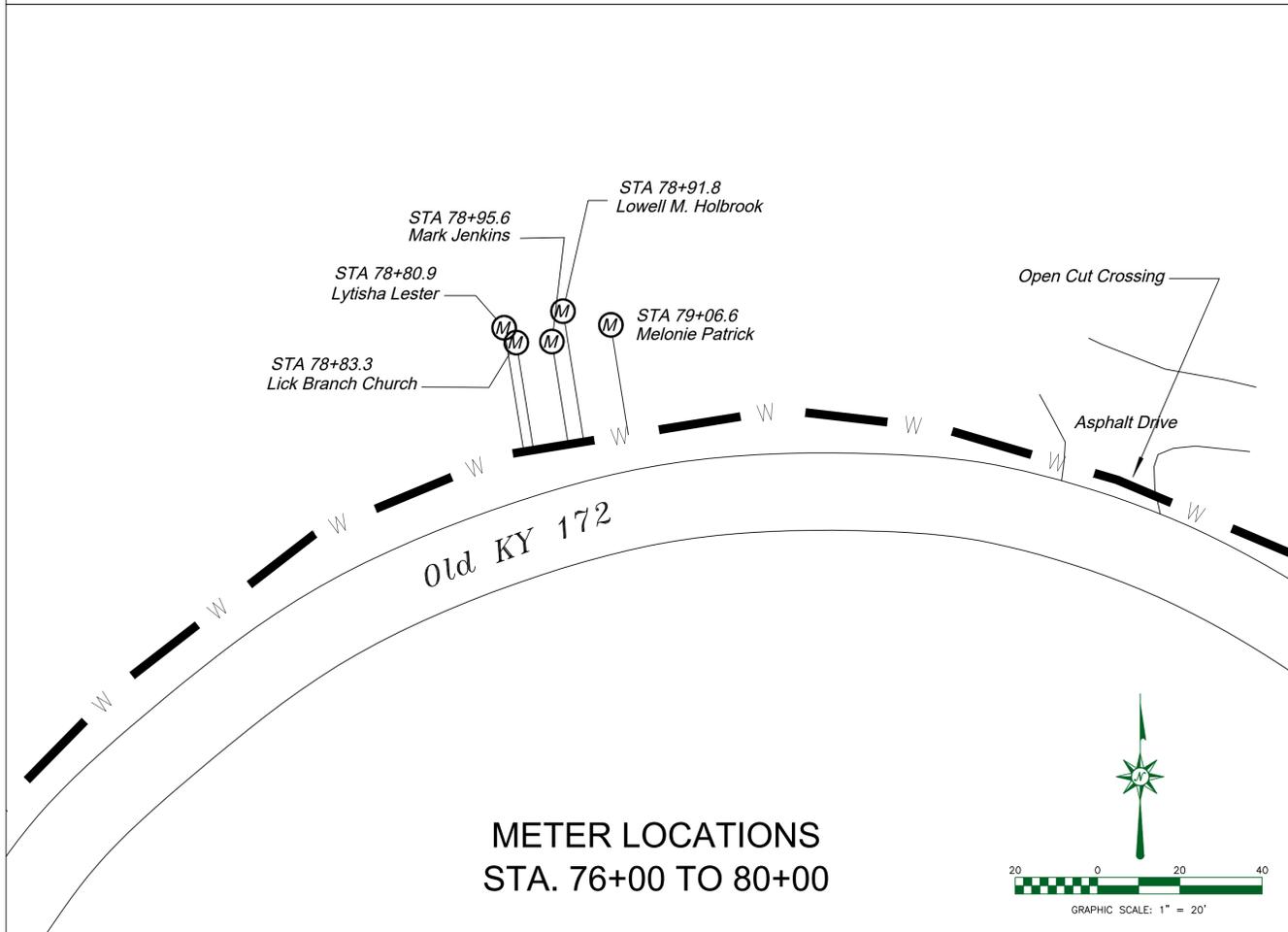
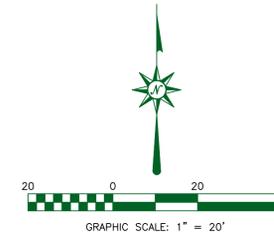
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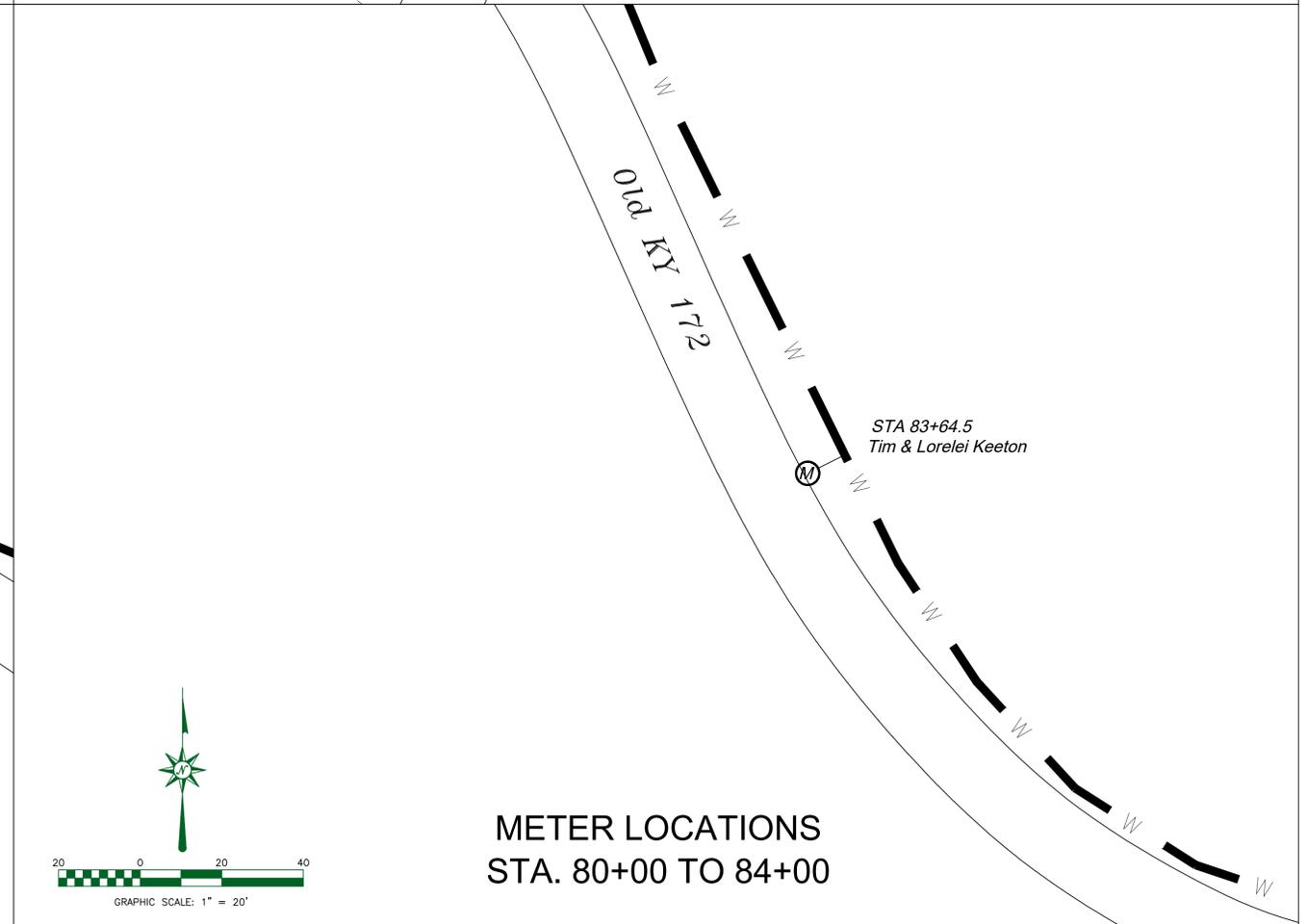
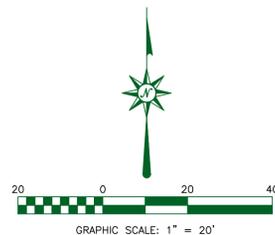
METER LOCATIONS  
STA. 67+00 TO 70+00



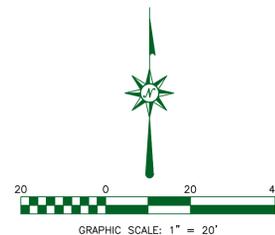
METER LOCATIONS  
STA. 73+00 TO 76+00



METER LOCATIONS  
STA. 76+00 TO 80+00



METER LOCATIONS  
STA. 80+00 TO 84+00



MORGAN COUNTY WATER DISTRICT  
408 PRESTONSBURG STREET  
WEST LIBERTY, KENTUCKY 41472  
MORGAN COUNTY

WATERLINE REPLACEMENT

James Sparks  
STATE OF KENTUCKY  
JAMES SPARKS  
13,340  
LICENSED PROFESSIONAL ENGINEER

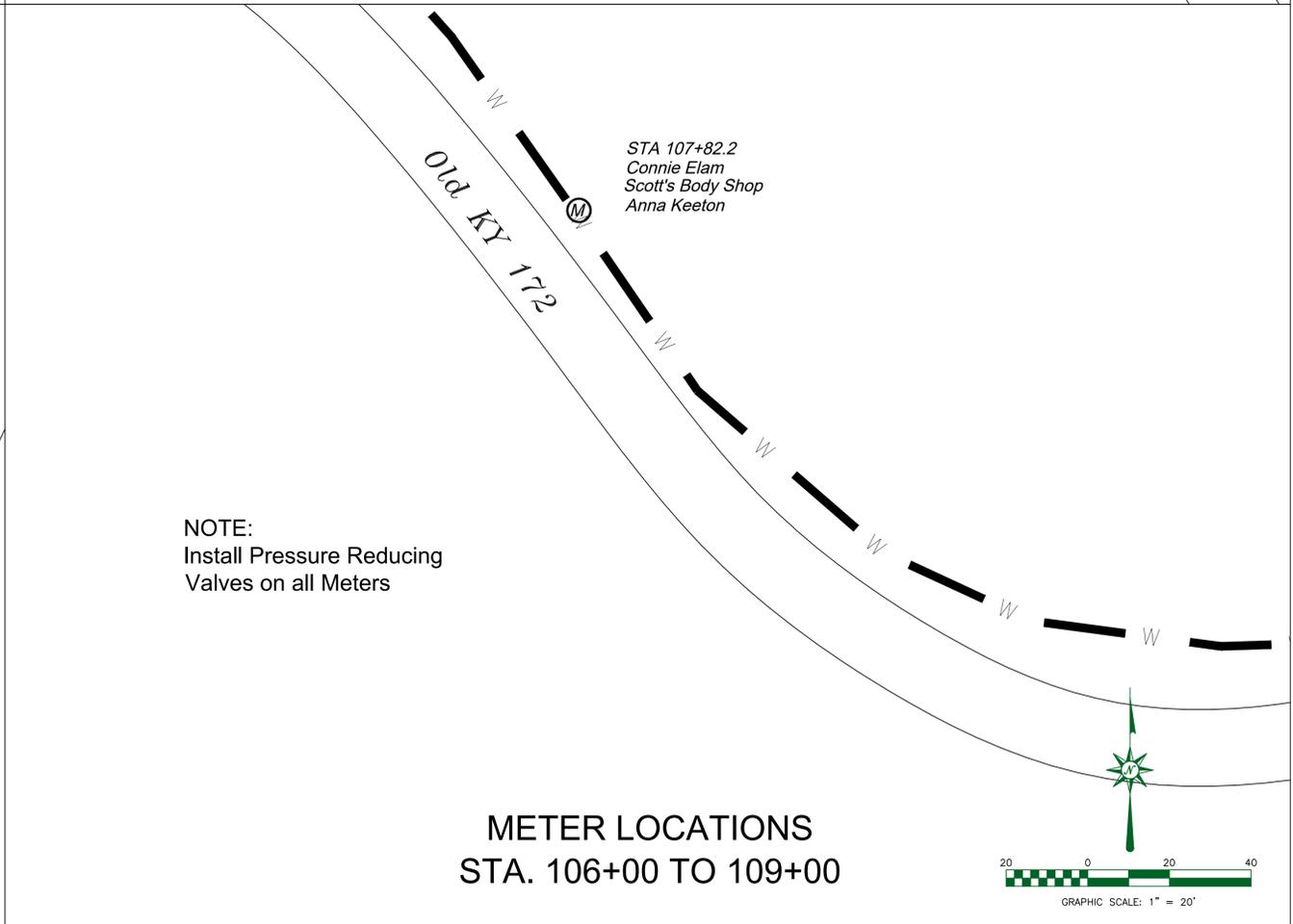
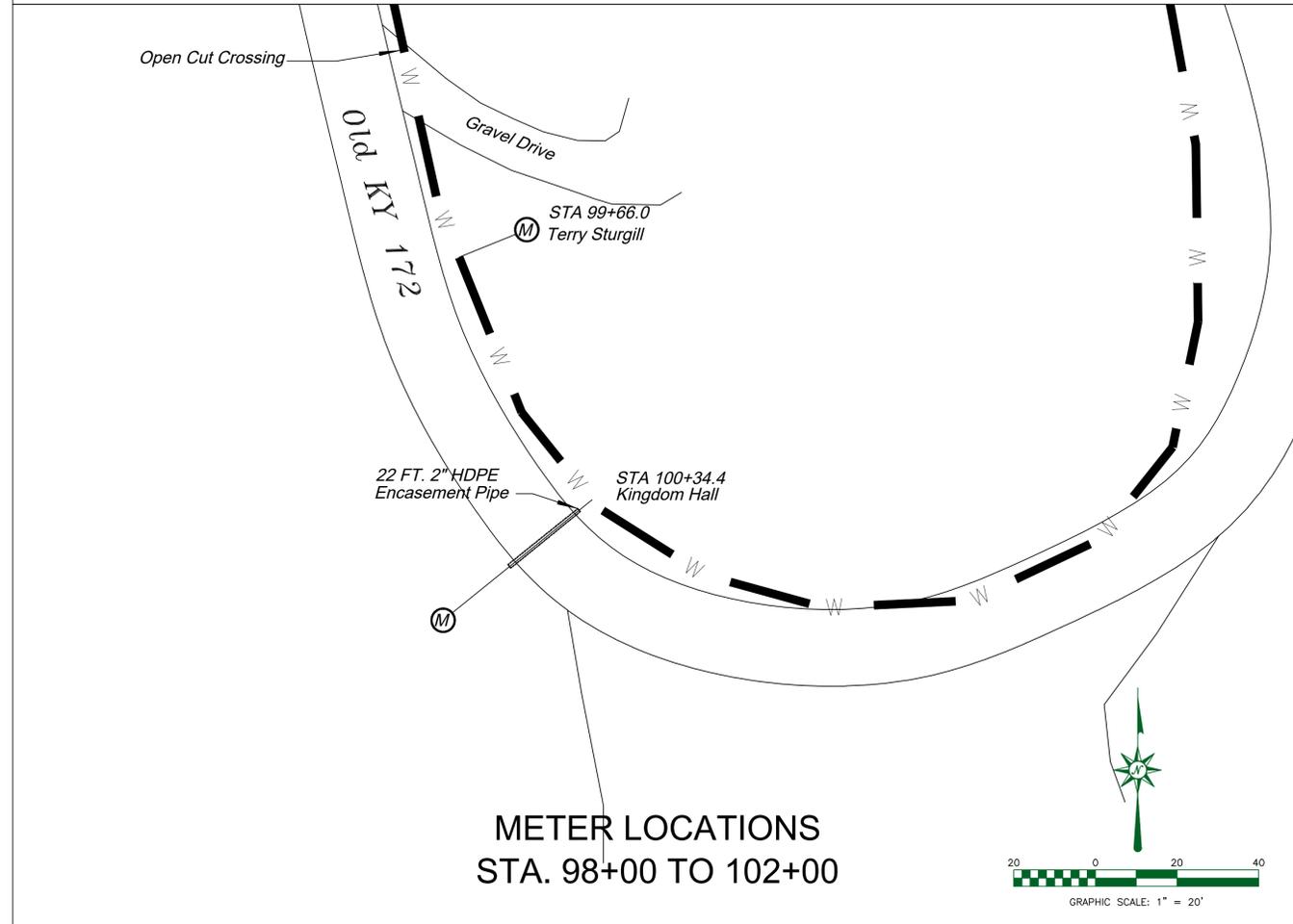
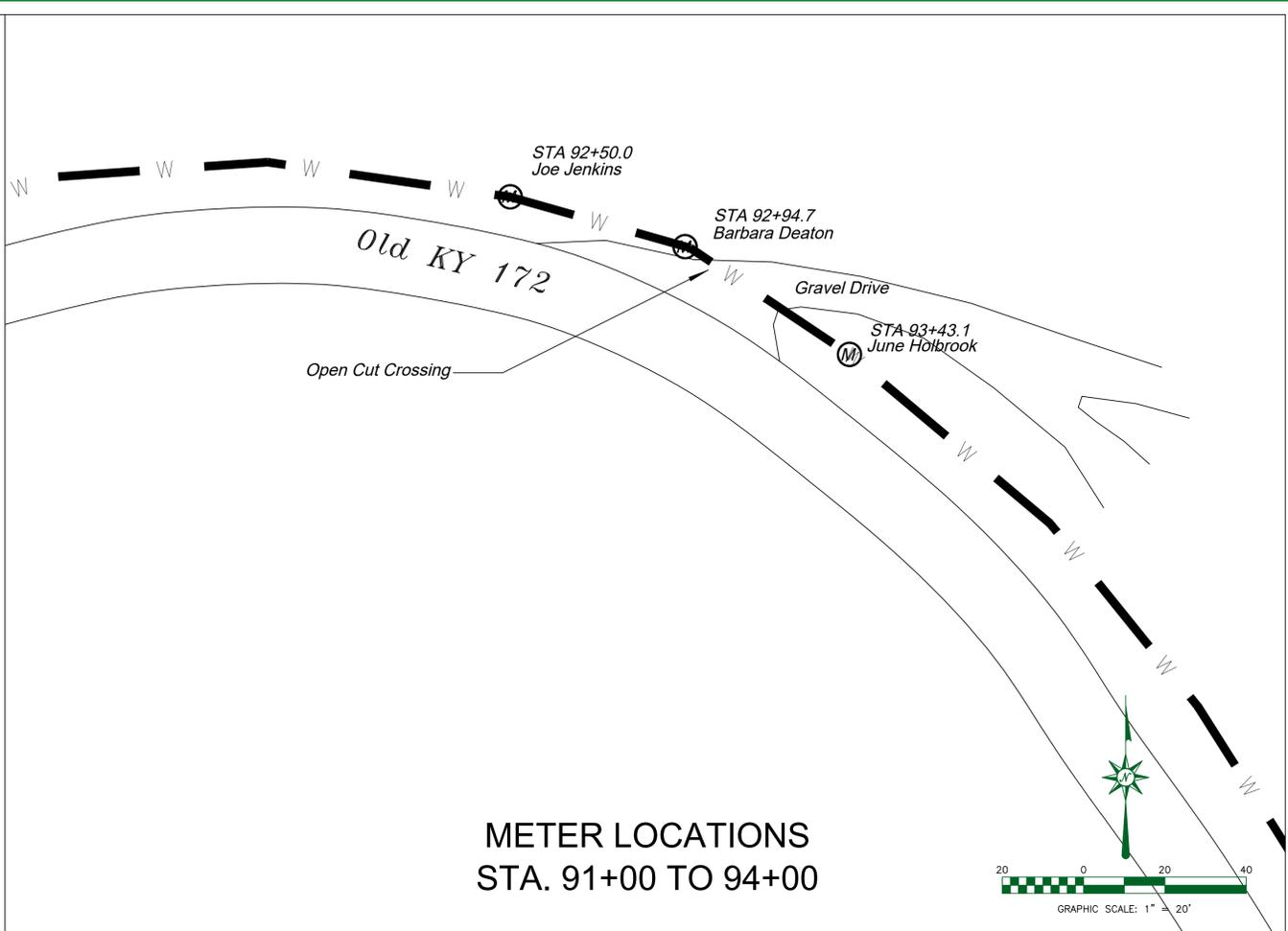
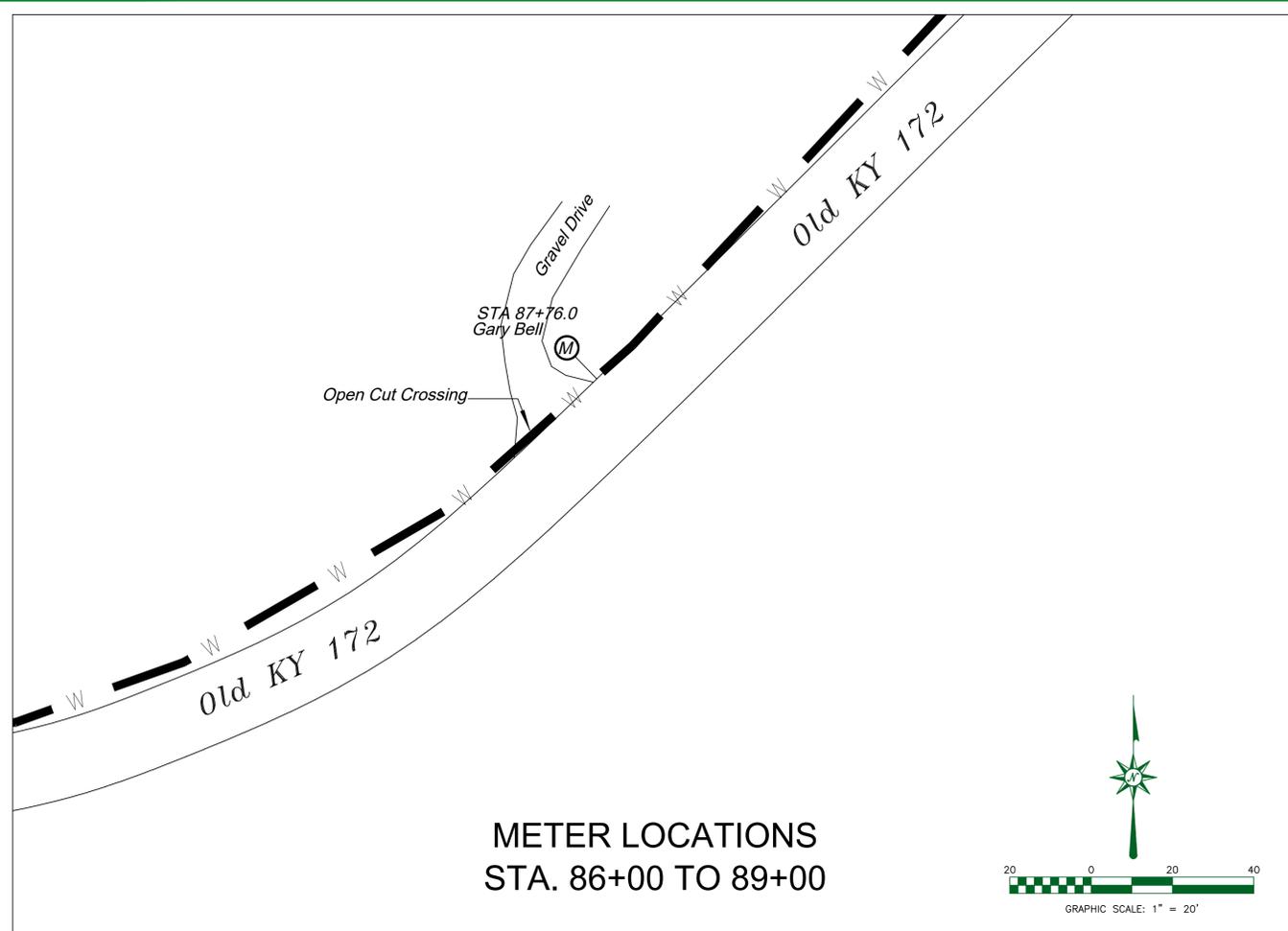
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WATERLINE REPLACEMENT PROJECT PHASE 1

drawn by: JHS  
date: 3-10-20

job no.: 1197.01.03  
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Sheet No. C-11



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MORGAN COUNTY WATER DISTRICT  
408 PRESTONSBURG STREET  
WEST LIBERTY, KENTUCKY 41472  
MORGAN COUNTY

WATERLINE REPLACEMENT

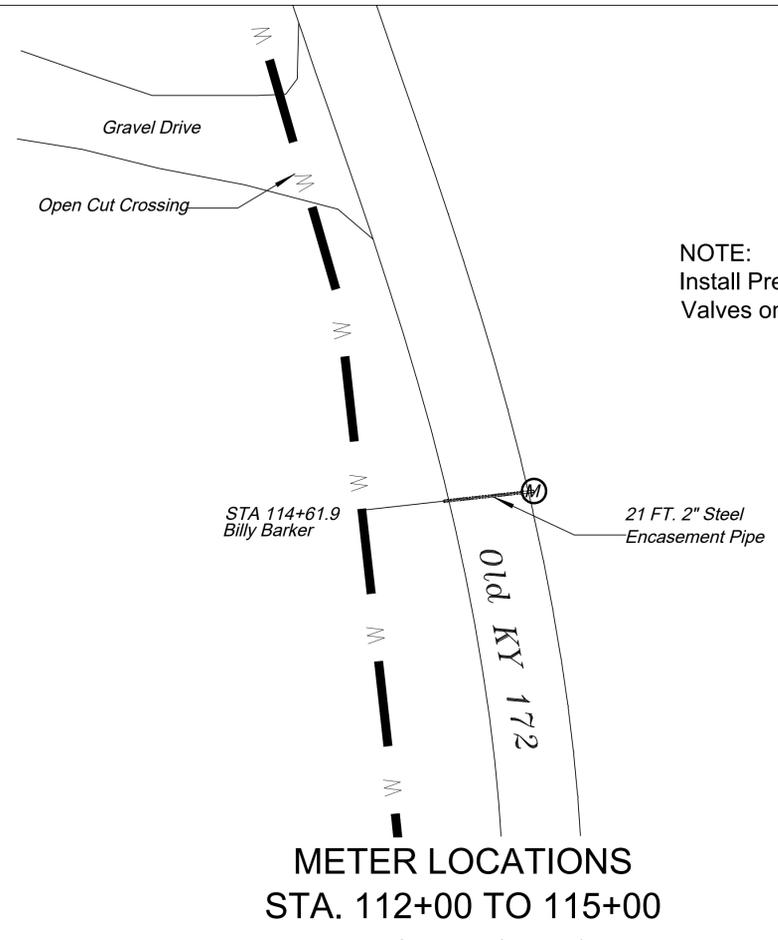
James Sparks  
STATE OF KENTUCKY  
JAMES SPARKS  
13,340  
LICENSED PROFESSIONAL ENGINEER

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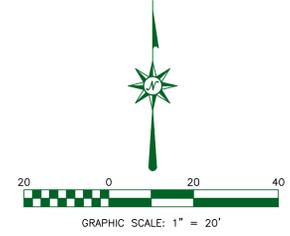
MORGAN COUNTY WATER DISTRICT  
WATERLINE REPLACEMENT PROJECT PHASE 1

JOB NO.: 1197.01.03  
DATE: 3-10-20  
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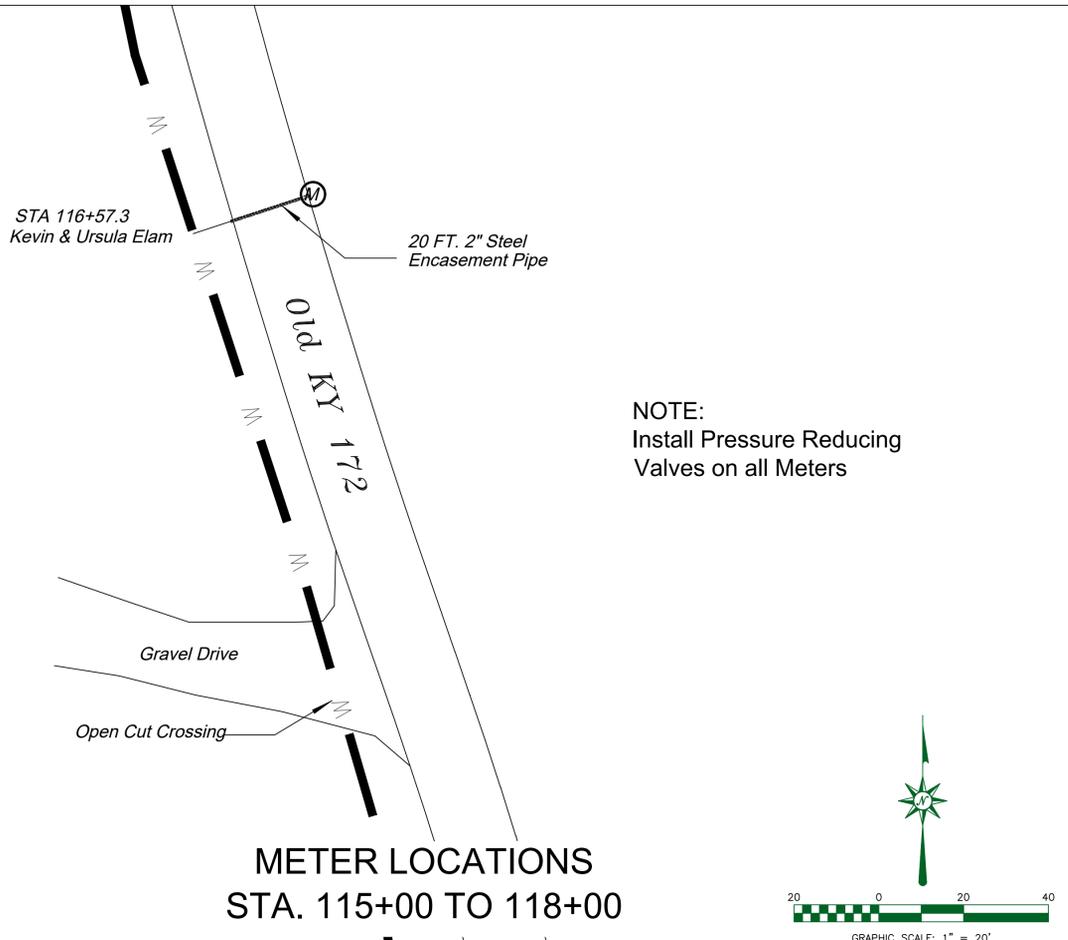
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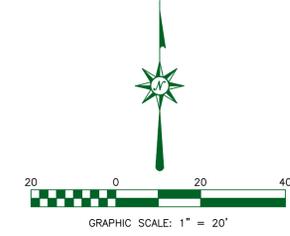
NOTE:  
Install Pressure Reducing  
Valves on all Meters



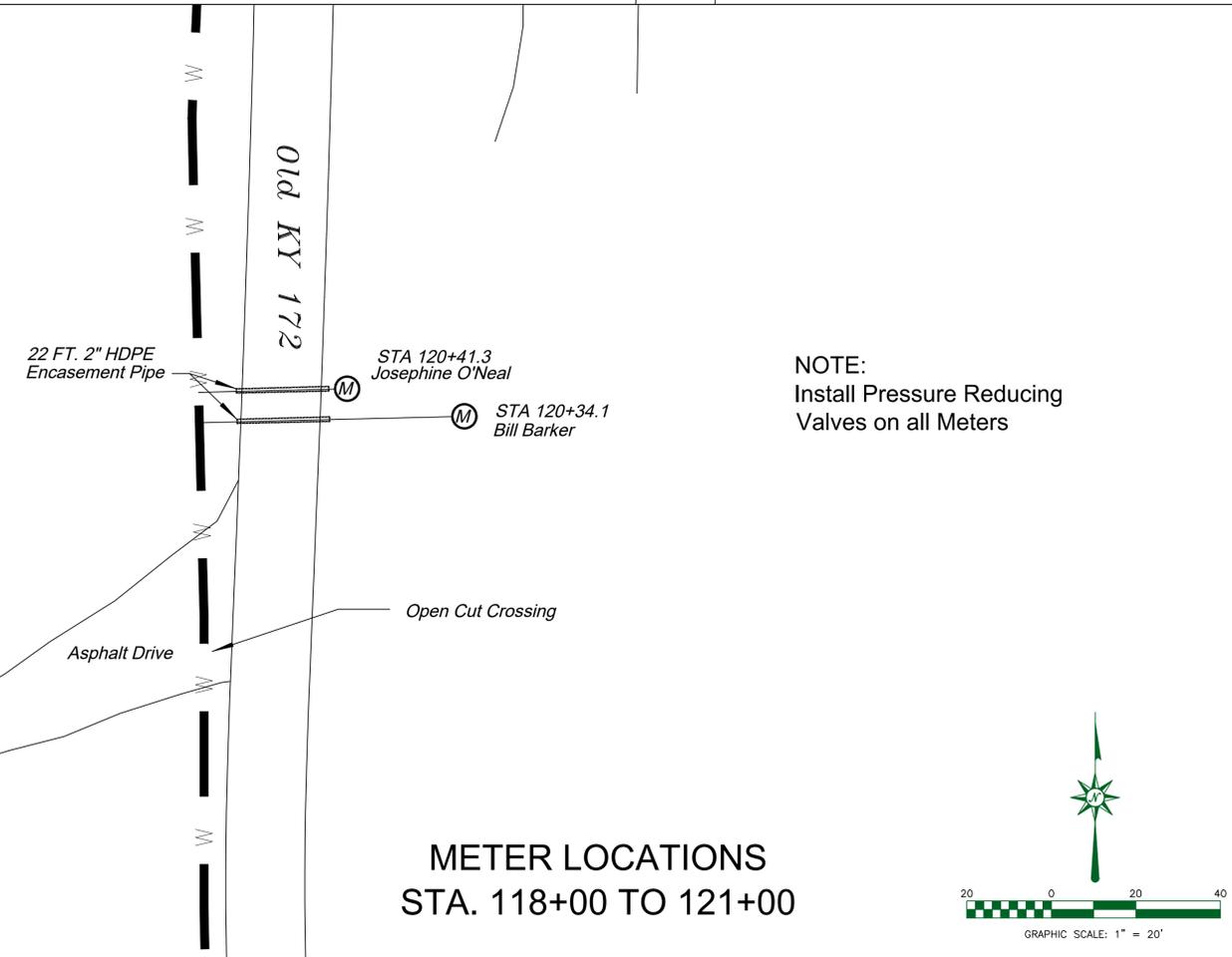
METER LOCATIONS  
STA. 112+00 TO 115+00



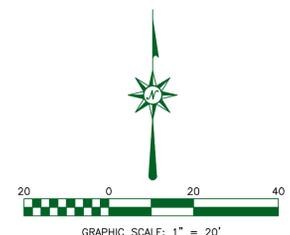
NOTE:  
Install Pressure Reducing  
Valves on all Meters



METER LOCATIONS  
STA. 115+00 TO 118+00

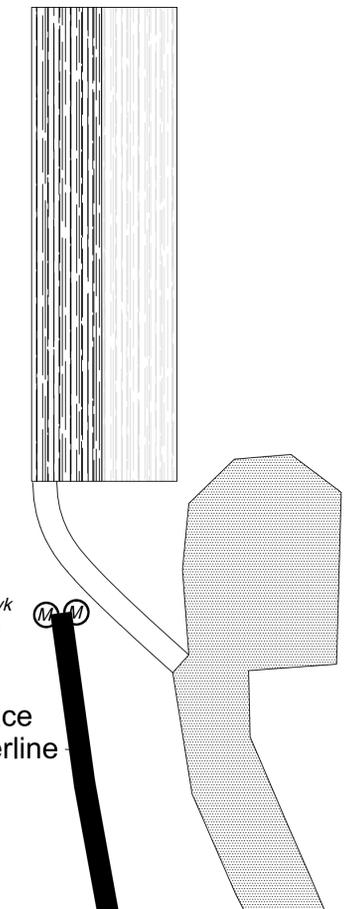


NOTE:  
Install Pressure Reducing  
Valves on all Meters



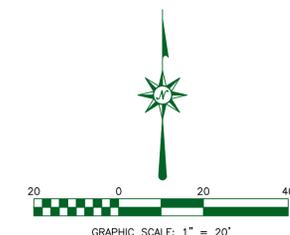
METER LOCATIONS  
STA. 118+00 TO 121+00

Residence on Walter Litteral Road  
(See Sheet C-7)



Jeffery Leonarczyk  
Meghan Charlson

Replace  
2" Waterline

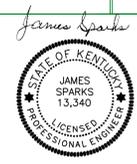


METER LOCATIONS  
Walter Litteral Road

DRAWING FILE LOCATION: P:\MORGAN COUNTY WATER DISTRICT\1191-01 WATERLINE REPLACEMENT\1191-01 WATERLINE REPLACEMENT\1191-01 WATERLINE REPLACEMENT DESIGN.DWG  
LAST PLOTTED ON: 8/14/2020 BY: SPARKS, JAMES H.

MORGAN COUNTY WATER DISTRICT  
408 PRESTONSBURG STREET  
WEST LIBERTY, KENTUCKY 41472  
MORGAN COUNTY

WATERLINE REPLACEMENT



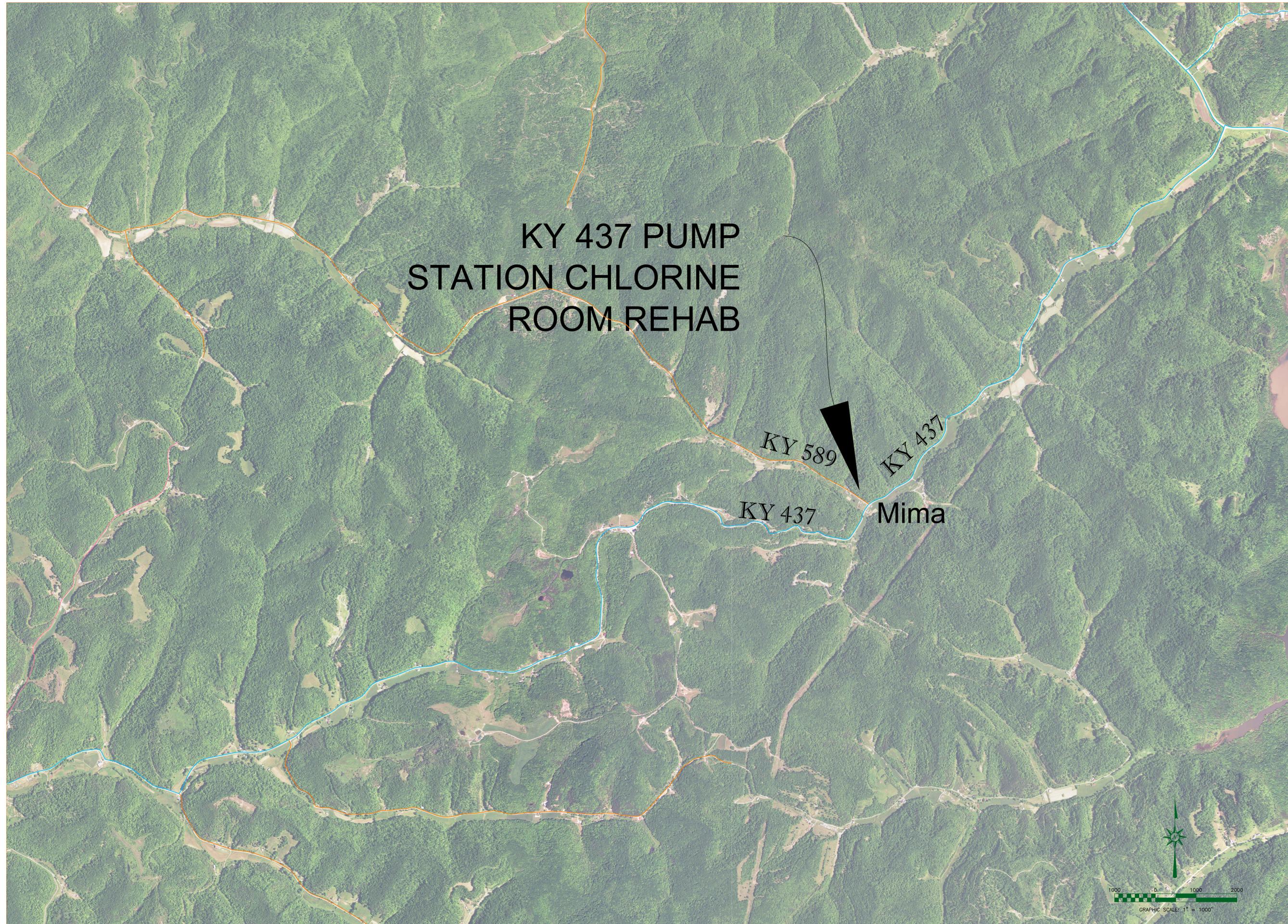
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drawn by: JHS  
date: 11/9/2013  
job no.: 1197.01.03  
sheet no.: AS SHOWN

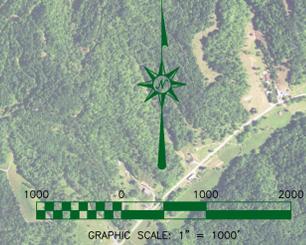


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# KY 437 PUMP STATION CHLORINE ROOM REHAB

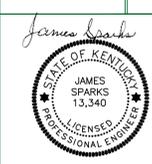
KY 589  
KY 437  
Mima



FORM NO. 1

MORGAN COUNTY WATER DISTRICT  
408 PRESTONSBURG STREET  
WEST LIBERTY, KENTUCKY 41472  
MORGAN COUNTY

WATERLINE REPLACEMENT



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scale: 1" = 1000'  
date: 7-16-20



sheet no.

C-14

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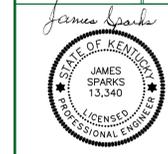


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drawn by: JHS  
date: 7-16-20

job no.: 1197-01.03  
scale: 1" = 1000'

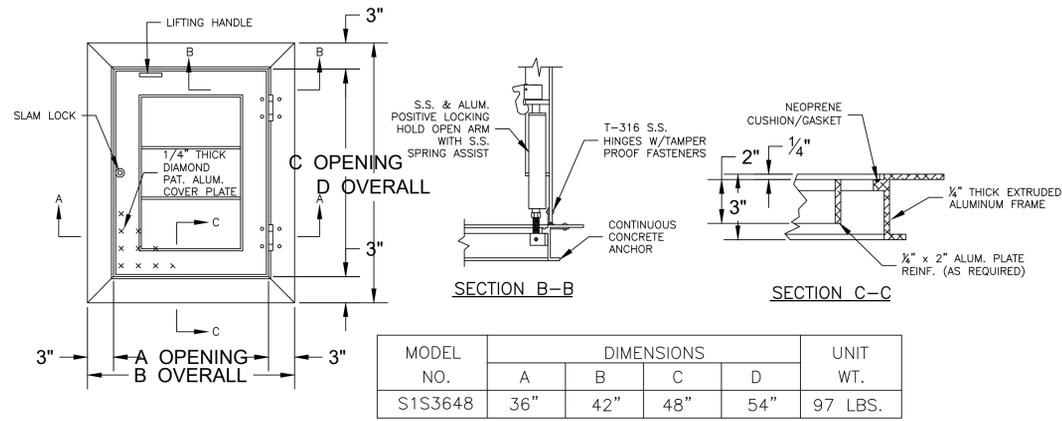


MORGAN COUNTY WATER DISTRICT  
408 PRESTONSBURG STREET  
WEST LIBERTY, KENTUCKY 41472  
MORGAN COUNTY

WATERLINE REPLACEMENT

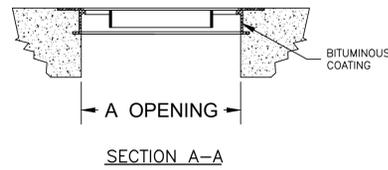
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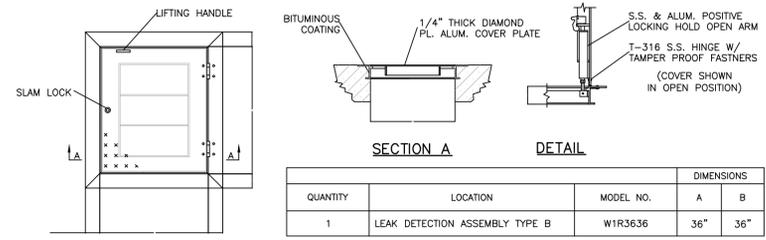


MODEL NO.	DIMENSIONS				UNIT WT.
	A	B	C	D	
S1S3648	36"	42"	48"	54"	97 LBS.

THE S1S SERIES (SINGLE LEAF) ACCESS FRAMES AND COVERS AS MANUFACTURED BY HALLIDAY PRODUCTS, INC. OF ORLANDO, FLORIDA SHALL HAVE A 1/4" THICK ONE-PIECE, MILL FINISH, EXTRUDED ALUMINUM FRAME, INCORPORATING A CONTINUOUS CONCRETE ANCHOR. A BITUMINOUS COATING SHALL BE APPLIED TO THE FRAME EXTERIOR WHERE IT WILL COME IN CONTACT WITH CONCRETE. DOOR PANEL SHALL BE 1/4" ALUMINUM DIAMOND PLATE, REINFORCED TO WITHSTAND A LIVE LOAD OF 300 LBS. PSF. DOOR SHALL OPEN TO 90° AND AUTOMATICALLY LOCK WITH A T-316 STAINLESS STEEL HOLD OPEN ARM WITH ALUMINUM RELEASE HANDLE. FOR EASE OF OPERATION, THE HOLD OPEN ARM SHALL INCORPORATE AN ENCLOSED STAINLESS STEEL COMPRESSION SPRING ASSIST. DOOR SHALL CLOSE FLUSH WITH THE FRAME AND REST ON A BUILT-IN NEOPRENE CUSHION/GASKET. HINGES AND ALL FASTENING HARDWARE SHALL BE T-316 STAINLESS STEEL. UNIT SHALL LOCK WITH A T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY AND HAVE A NON-CORROSIVE HANDLE. UNIT SHALL CARRY A LIFETIME GUARANTEE AGAINST DEFECTS IN MATERIAL AND/OR WORKMANSHIP.



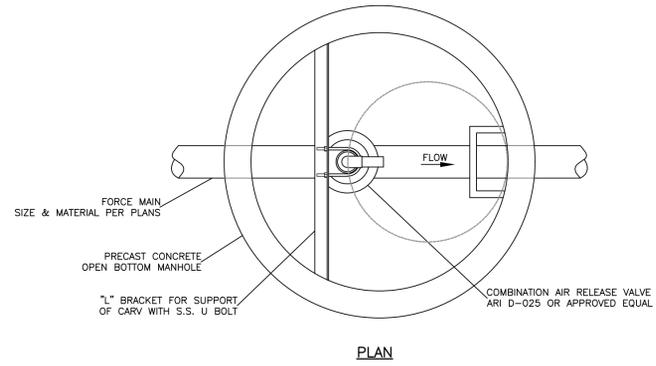
ALUMINUM ACCESS HATCH DETAIL  
NOT TO SCALE



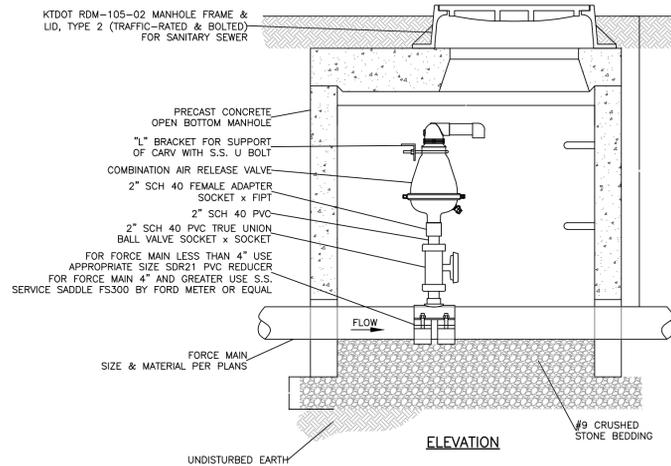
QUANTITY	LOCATION	MODEL NO.	DIMENSIONS	
			A	B
1	LEAK DETECTION ASSEMBLY TYPE B	W1R3636	36"	36"

THE W1R SERIES (SINGLE LEAF) ACCESS FRAMES AND COVERS AS MANUFACTURED BY HALLIDAY PRODUCTS, INC. OF ORLANDO, FLORIDA OR APPROVED EQUAL SHALL HAVE A 1/4" THICK ONE-PIECE, MILL FINISH, EXTRUDED ALUMINUM CHANNEL FRAME, INCORPORATING A CONTINUOUS CONCRETE ANCHOR. A 1/4" THICK ALUMINUM DIAMOND PLATE, REINFORCED TO WITHSTAND A LIVE LOAD OF 300 LBS. PSF. DOOR SHALL OPEN TO 90 DEGREES AND AUTOMATICALLY LOCK WITH A T-316 STAINLESS STEEL HOLD OPEN ARM WITH ALUMINUM RELEASE HANDLE. FOR EASE OF OPERATION, THE HOLD OPEN ARM SHALL INCORPORATE AN ENCLOSED STAINLESS STEEL COMPRESSION SPRING ASSIST. DOOR SHALL CLOSE FLUSH WITH THE FRAME. HINGES AND ALL FASTENING HARDWARE SHALL BE T-316 STAINLESS STEEL. UNIT SHALL LOCK WITH A T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY AND HAVE A NON-CORROSIVE HANDLE. UNIT SHALL CARRY A LIFETIME GUARANTEE AGAINST DEFECTS IN MATERIAL AND/OR WORKMANSHIP.

ACCESS HATCH  
NOT TO SCALE



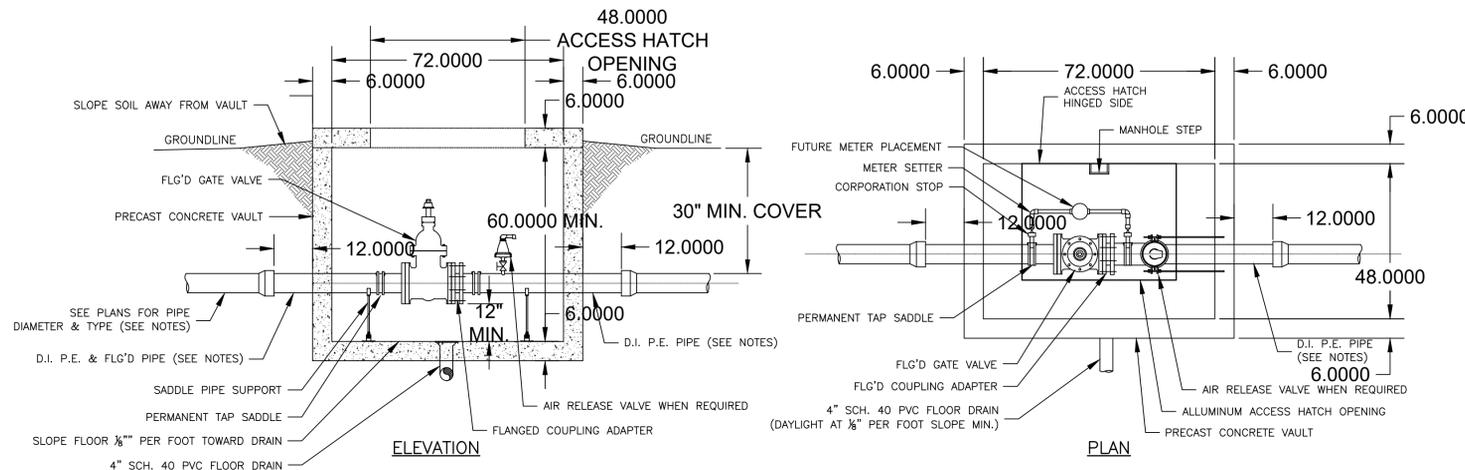
PLAN



ELEVATION

SANITARY SEWER AIR & VACUUM RELEASE VALVES SHALL BE A.R.I. MODEL D-025 SHORT VERSION OR EQUAL W/2" MALE THREADED INLET AND 2" OUTLET. ALL VALVES SHALL BE PROVIDED WITH 1/2" BALL VALVE FOR RELEASE OF TRAPPED PRESSURE AND DRAINING VALVE BODY PRIOR TO MAINTENANCE AND FOR BACK FLUSHING DURING MAINTENANCE.

COMBINATION AIR RELEASE VALVE ASSEMBLY  
NOT TO SCALE

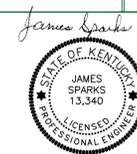


LEAK DETECTION ASSEMBLY TYPE B  
NOT TO SCALE

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LAST PLOTTED ON: 8/12/2020 BY: SPARKS, JAMES H.

MORGAN COUNTY WATER DISTRICT  
408 PRESTONSBURG STREET  
WEST LIBERTY, KENTUCKY 41472  
MORGAN COUNTY

WATERLINE REPLACEMENT



nesbitt engineering, inc.  
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MORGAN COUNTY WATER DISTRICT  
WATERLINE REPLACEMENT PROJECT PHASE 1

JOB NO.: 1197.01.03  
DATE: 11/9/2019  
AS SHOWN

DRAWN BY: JHS  
DATE: 3-10-20



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.

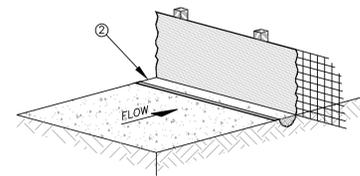
Areas such as sinkholes, streams, wetlands, stream buffers, highly erodible soils and steep slopes should be avoided to the greatest extent feasible. Mark, fence or flag areas that should be protected from construction activities such as clearing, grubbing, grading, mowing, staging activities, material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

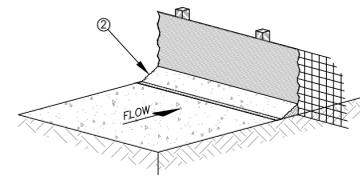
Prevent stormwater from entering areas and leaving areas of disturbed soil by using vegetated strips, diversion dikes and swales, filter berms, sediment traps and basins, check dams, stabilized construction entrances, and sit fences or filter tubes/wattles. Reduce the amount of sediment and water velocity 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.



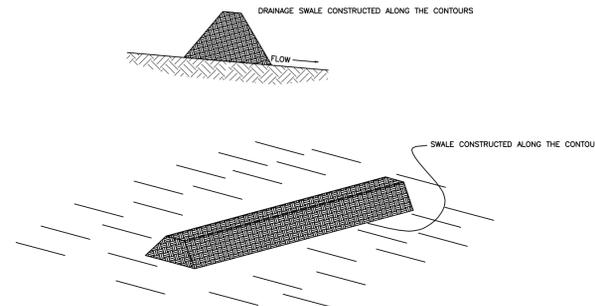
ALTERNATE 1



ALTERNATE 2

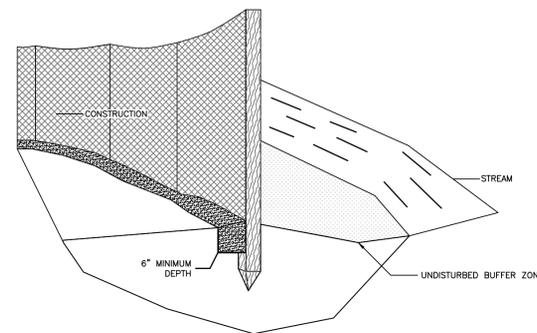
- NOTES
1. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
  2. THE BOTTOM 12 INCHES OF FABRIC SHALL BE BURIED IN A 6 INCH TRENCH CUT INTO THE GROUND OR COVERED BY 6 INCHES OF FILL MATERIAL, TO PREVENT SEDIMENT ESCAPING UNDER FENCE. ALL EARTHWORK SHALL BE ON THE UPSTREAM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

SILT CHECK FENCE  
SEDIMENTATION CONTROL  
NOT TO SCALE



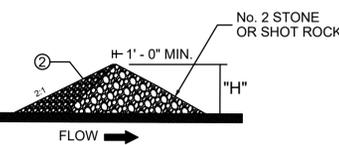
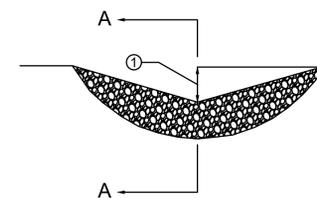
NOTE:  
DRAINAGE SWALES SHALL BE PLACED WHERE NEEDED TO PROVIDE PROPER EROSION CONTROL UNTIL REVEGETATION IS COMPLETED.

DRAINAGE SWALE SILT CHECK  
SEDIMENTATION CONTROL  
NOT TO SCALE

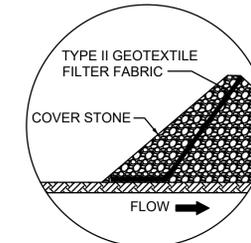
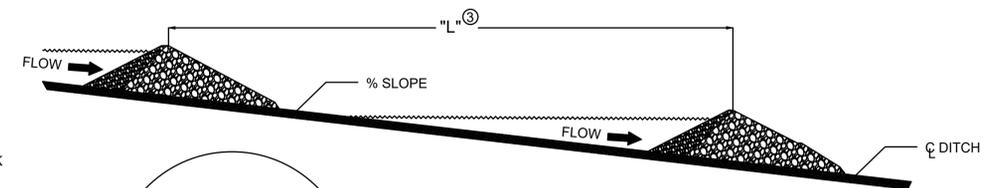


- NOTES
1. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE.
  2. STORMWATER PERMIT IS RESPONSIBILITY OF CONTRACTOR.

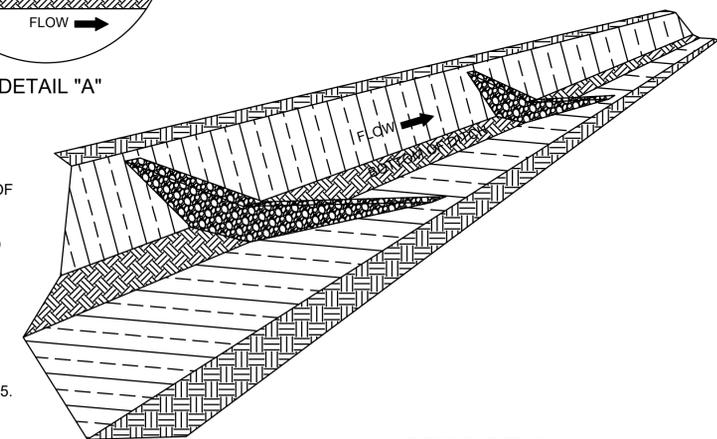
SILT CHECK FENCE  
SEDIMENTATION CONTROL  
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SECTION "A - A"



DETAIL "A"



TYPE B SILT TRAP  
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%.

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