



TRANSPORTATION CABINET

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

December 7, 2011

CALL NO. 301
CONTRACT ID NO. 111056
ADDENDUM # 3

Subject: Morgan County, JL04 088 0172 010-013
Letting December 9, 2011

(1) Revised - Plan Sheets - U2 through U11, U16 & U18

Proposal revisions are available at <http://transportation.ky.gov/contract/>.
Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

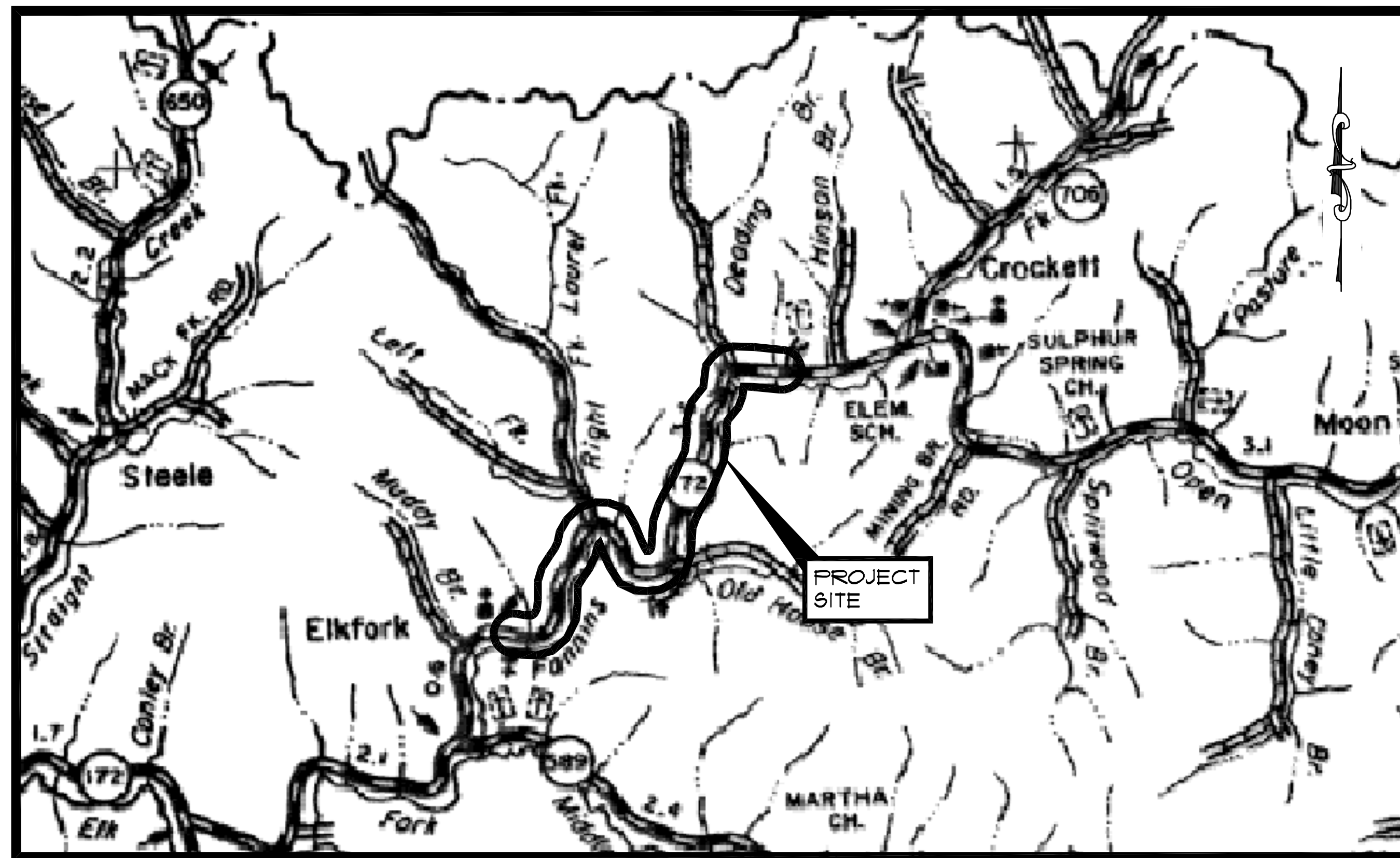
A handwritten signature in blue ink that reads "Ryan Griffith".

Ryan Griffith
Director
Division of Construction Procurement

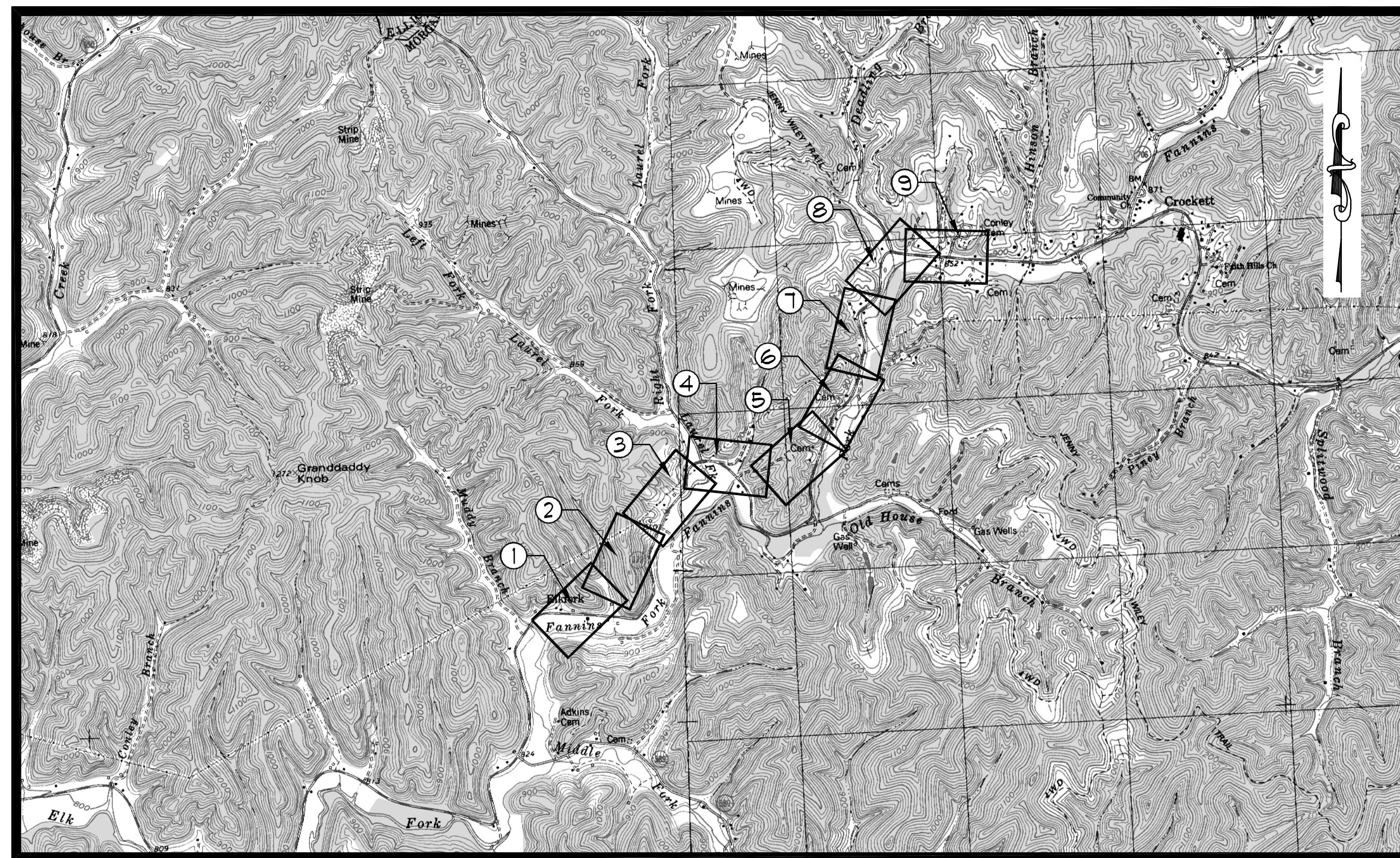
RG:ks
Enclosures



An Equal Opportunity Employer M/F/D



VICINITY MAP
SCALE: N.T.S.



TOPOGRAPHIC MAP
SCALE: 1" = 1/2 MILE

GENERAL NOTES

- ALL WATER MAINS SHALL BE SDR-21, CL. 200 UNLESS OTHERWISE NOTED ON THE PLANS.
- UNLESS OTHERWISE NOTED, A SEPARATE BID ITEM HAS NOT BEEN ESTABLISHED FOR FITTINGS. THE FITTINGS INVOLVED BUT NOT LIMITED TO TEES, BENDS, ELBS, REDUCERS, SADDLES, CROSSES, COUPLINGS, ETC. CONTRACTOR SHALL INCLUDE THE COST OF THESE ITEMS IN THE UNIT PRICE BID FOR THE PIPE.
- NO PAY ITEM FOR EXTRA TRENCH DEPTH HAS BEEN ESTABLISHED. CONTRACTOR SHALL INCLUDE THE COST OF THE ADDITIONAL DEPTH IN HIS UNIT PRICE WHEN THE WATER PIPE CROSSES UNDER AN EXISTING UTILITY, CULVERT, DRAINAGE DITCH, ROADWAY, ETC.
- FINAL LOCATION OF SERVICES, GATE VALVES AND OTHER AFFURTENANCES ARE TO BE FIELD LOCATED DURING CONSTRUCTION AND APPROVED BY THE ENGINEER.
- EXISTING UTILITIES, ESPECIALLY GAS LINE AND OIL LINES, MAY BE CATHODICALLY PROTECTED; THEREFORE, DUCTILE IRON PIPE FITTINGS, GATE VALVES, AND/OR BOXES LAID WITHIN 200' OF THESE LINES WITH CATHODIC PROTECTION SHALL MEET THE REQUIREMENTS OF ANIA G-105, LATEST REVISION. A SEPARATE PAY ITEM HAS NOT BEEN ESTABLISHED. ALL COST FOR LABOR AND MATERIALS MUST BE INCLUDED IN THE UNIT PRICE BID FOR PIPE.
- ALL DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- ALL CONCRETE THRUST BLOCKS AND RESTRAINTS ARE NOT BE SHOWN ON THE DRAWINGS; HOWEVER, CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL BENDS, TEES, CROSSES, DEAD ENDS, ETC. THRUST BLOCKS SHALL BE SIZED ACCORDINGLY AS SHOWN ON THE CONCRETE THRUST BLOCK DETAIL. ANY ADDITIONAL THRUST BLOCKS REQUIRED SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PIPE. THRUST BLOCK SHALL BE POURED IN PLACE READY MIX CONCRETE MIN. 3000 PSI.
- THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITY TO THE AREA WITHIN THE 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.
- SEPTIC SYSTEMS MAY BE LOCATED IN SOME AREAS. CONTRACTOR TO USE CAUTION IN THESE AREAS. WATER MAIN TO BE ENCASED IN CONCRETE WHEN LAID WITHIN 10' OF DRAIN LINES OR FIELD. SEE DETAILS AND NOTE ON STANDARD DETAIL SHEET. WHERE DRAIN LINES ARE ENCOUNTERED AND IT IS DETERMINED THAT THE LINES NEED TO BE CONCRETE ENCASED THE CONTRACTOR SHALL BE PAID AT THE UNIT PRICE BID FOR CONCRETE. NO OTHER ADDITIONAL COMPENSATION WILL BE APPROVED.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE LOCATIONS OF ANY AND ALL UTILITIES ENCOUNTERED BY THE FINAL ALIGNMENT OF WATERLINE. THE CONTRACTOR SHALL USE CAUTION WHEN EXCAVATING AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THE EXISTING UTILITIES TO KEEP THEM IN SERVICE. IF UTILITIES ARE SHOWN, THE INFORMATION IS GENERAL IN NATURE AND NOT TO BE TAKEN AS RECORD DRAWINGS. CONTRACTOR SHALL CONTACT REPRESENTATIVES OF LOCAL UTILITIES A MINIMUM OF 48 HOURS BEFORE COMMENCING WORK ON THE PROJECT.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND GIVE ALL NOTICES REQUIRED FOR EXECUTION OF THE WORK. THE CONTRACTOR SHALL PAY FOR ALL PERMITS AND ANY APPLICABLE WATER SERVICE INSPECTION FEES.
- THE CONTRACTOR SHALL CONFIRM TO ALL LOCAL, STATE AND FEDERAL CODES AND RECEIVE APPROVAL WHERE NECESSARY PRIOR TO COMMENCEMENT OF THE WORK.
- ALL PIPING BENDS ARE NOT NECESSARILY SHOWN ON THE DRAWINGS. ADDITIONAL BENDS MAY BE NECESSARY TO CONFORM WITH ELEVATIONS SHOWN AND TO MAINTAIN ADEQUATE GROUND COVER. ANY ADDITIONAL BENDS REQUIRED SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PIPE.
- THE ENGINEER RESERVES THE RIGHT TO MAKE MINOR FIELD ADJUSTMENTS IN THE WORK IN ORDER TO ACCOMPLISH THE INTENT OF THE DESIGN.
- WHERE KYTC RIGHT-OF-WAY LINES ARE INDICATED THE LOCATION IS APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE FINAL RIGHT-OF-WAY LINES.
- EFFORTS HAVE BEEN MADE TO INDICATE ACCURATE LOCATIONS OF 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 AFORESAID 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.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL EXISTING UTILITY OWNERS AND HAVE THEM FIELD LOCATED THEIR EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- EXISTING UTILITIES DEPICTED IN THE CONSTRUCTION DRAWINGS WERE LOCATED FROM ACTUAL FIELD EVIDENCE, EXISTING UTILITY AGENCIES RECORDS OR OTHER AVAILABLE INFORMATION. OTHER UTILITIES MAY EXIST AND NOT BE SHOWN OR MAY VARY FROM WHERE SHOWN. NO GUARANTEE IS EXPRESSED OR IMPLIED AS TO ACTUAL LOCATION OF UTILITIES SHOWN HEREON, BUT NOT VISIBLE FROM THE SURFACE.
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- THE CONTRACTOR SHALL BE SOLELY LIABLE FOR ANY WORK HE PERFORMS OUTSIDE OF LEGAL EASEMENTS OR CONSTRUCTION LIMITS.

- THE CONTRACTOR SHALL CONTACT AND OBTAIN THE PERMISSION OF THE OWNER 48 HOURS (MIN) PRIOR TO ANY CONSTRUCTION ACTIVITY INTERRUPTING INTERRUPTING OPERATION OF THE DISTRIBUTION SYSTEM.
- 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.
- ALL WORK DONE WITHIN THE CONFINES OF THE EXISTING RAILROAD RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH ALL APPLICABLE RAILROAD REQUIREMENTS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTRACT AND COORDINATE WITH THE PROPER RAILROAD AUTHORITIES AS REQUIRED.

LEGEND

PROPOSED WATERLINE	---
EXISTING WATERLINE	--- W ---
METER SETTING	--- M ---
METER SETTING WITH FRV	--- M --- FRV ---
PROPOSED GATE VALVE	--- X ---
EXISTING GATE VALVE	--- X ---
AUTOMATIC AIR RELEASE VALVE	--- A ---
FIRE HYDRANT / BLOWOFF HYDRANT	--- H ---
PROPERTY LINE	--- P ---
BLOWOFF ASSEMBLY	--- B ---
STREAM/POND	---
EXISTING SANITARY SEWER	--- SS ---
EXISTING GAS LINE	--- G ---
PLUG	--- P ---
FENCE	--- X ---

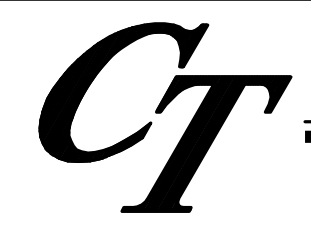
WATER LINE RELOCATION PROJECT GREEN TAYLOR WATER DISTRICT SUMMARY OF QUANTITIES		
PROPOSED ITEMS	UNIT	QUANTITY
6" WATER LINE (C-900, CL 200)	L.F.	10250
8" WATER LINE (DUCTILE IRON)	L.F.	430
4" WATER LINE (C-900, CL 200)	L.F.	450
12" STEEL CASING PIPE (ROAD BORE)	L.F.	355
17" STEEL CASING PIPE (OPEN CUT)	L.F.	1014
CRUSHED STONE	TON	325
CREEK CROSSING (DIRECTIONAL BORE)	L.F.	140
SERVICE LINE	L.F.	281
6" GATE VALVE	EA.	5
4" GATE VALVE	EA.	5
3" NOZZLE BLOWOFF HYDRANT	EA.	5
4" BLOWOFF ASSEMBLY	EA.	1
PROPOSED WATER METER	EA.	1
GRAVEL REPLACEMENT (DRIVEWAYS)	L.F.	135
CONNECTION TO EXISTING WATER LINE (ALL SIZES AND TYPES)	EA.	1
ABANDONED ITEMS		
EXISTING WATER LINE TO BE ABANDONED	L.F.	9840
EXISTING METER TO BE ABANDONED	EA.	1

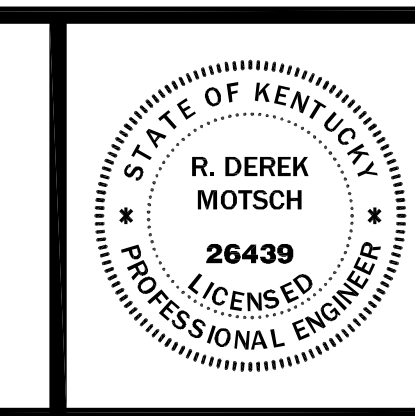
SHEET INDEX

U2	GENERAL NOTES/LEGEND/SUMMARY OF QUANTITIES/ SHEET INDEX/VICINITY MAP/TOPOGRAPHIC MAP
U3	STA. 340+00 TO STA. 345+00
U4	STA. 345+00 TO STA. 360+00
U5	STA. 360+00 TO STA. 375+00
U6	STA. 375+00 TO STA. 390+00
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U12	CROSS SECTIONS
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U14	CROSS SECTIONS
U15	STANDARD DETAILS
U16	STANDARD DETAILS
U17	STANDARD DETAILS
U18	STANDARD DETAILS

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 191	DATE: 9/21/2011
SCALE: AS NOTED	
DESIGNED BY: RDM	
DRAWN BY: JH	
CHECKED BY: JMR	
RECORD DRAWINGS	

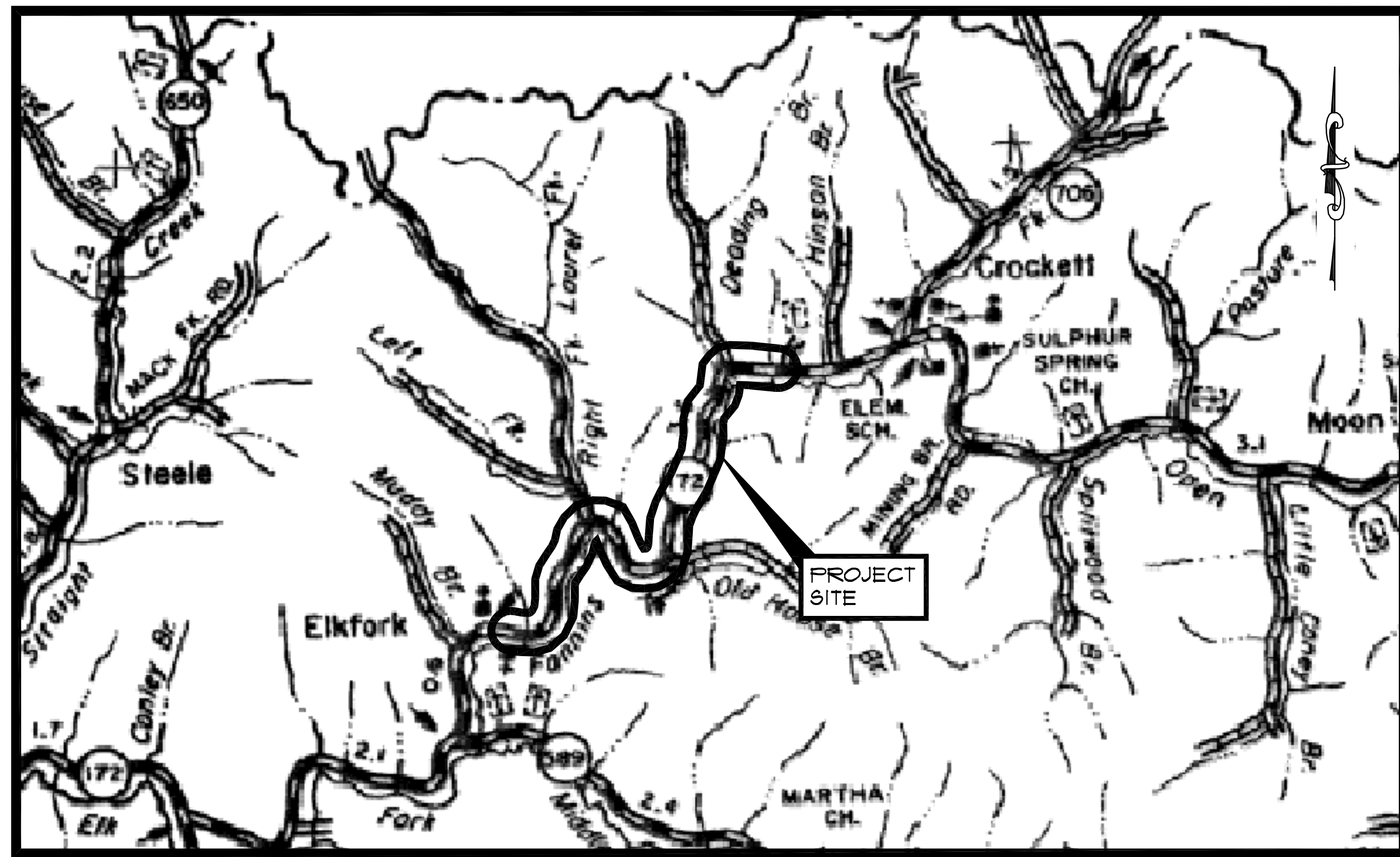

CANN-TECH, LLC
 Engineers · Planners · Managers
 1100 Glensboro Road
 Lawrenceburg, KY 40342
 Phone (502) 859-0907
 Fax (502) 859-0668



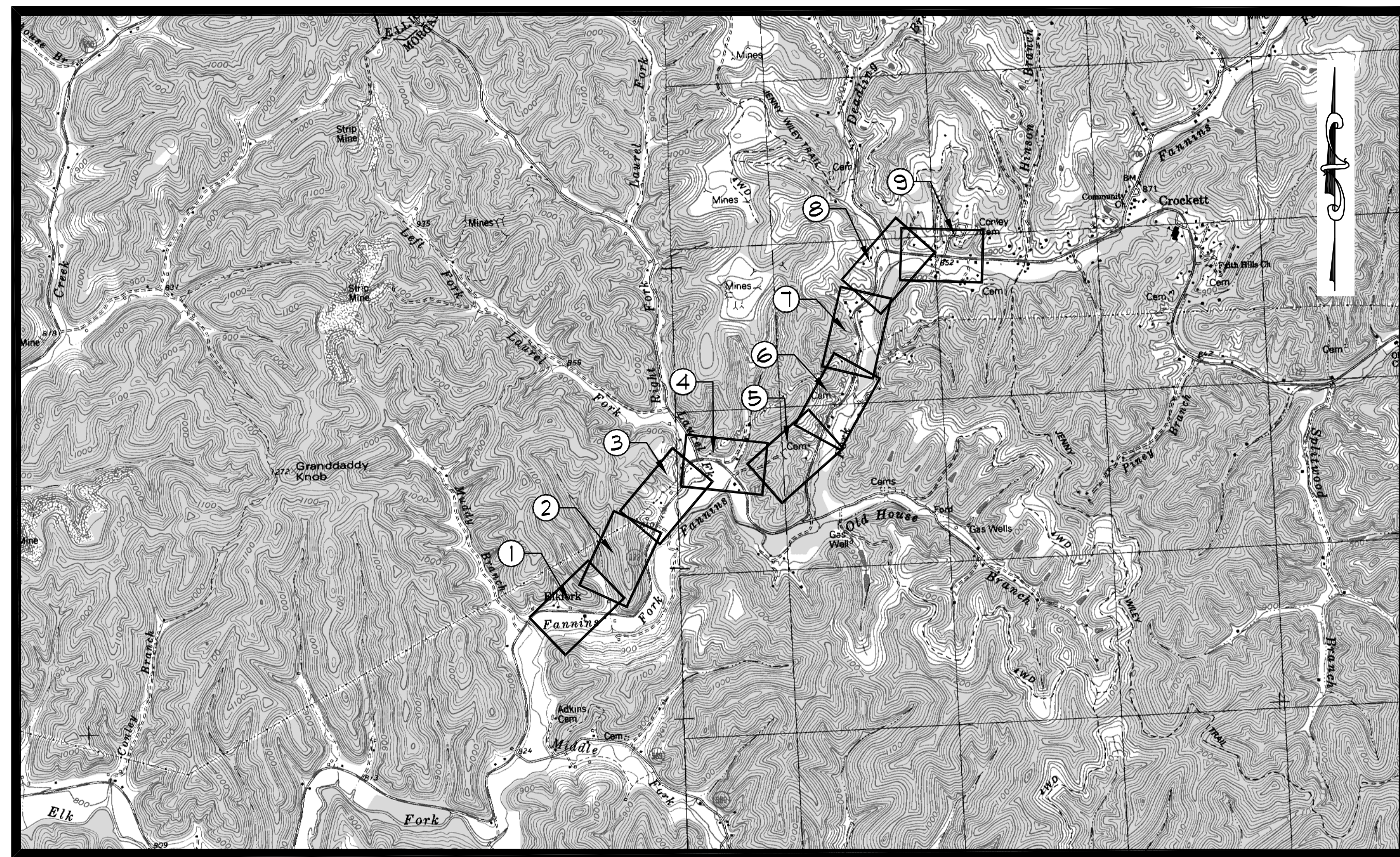
WATER LINE RELOCATION PROJECT
MORGAN COUNTY WATER DISTRICT
MORGAN COUNTY, KENTUCKY
 GENERAL NOTES/LEGEND/SUMMARY OF QUANTITIES/
 SHEET INDEX/VICINITY MAP/TOPOGRAPHIC MAP

SHEET
U2
OF
U18

U:\MORGAN COUNTY WATER DISTRICT\191-172-Relocation\Drawings\Plan_9.13.2011\Reviewed_0-000\Cover_SHELL NOTES.dwg, 12/17/2011, 3:34:26 PM, AEP: PDF



VICINITY MAP
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TOPOGRAPHIC MAP
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LEGEND

- PROPOSED WATERLINE
- EXISTING WATERLINE
- METER SETTING
- METER SETTING WITH FRV
- PROPOSED GATE VALVE
- EXISTING GATE VALVE
- AUTOMATIC AIR RELEASE VALVE
- FIRE HYDRANT / BLOWOFF HYDRANT
- PROPERTY LINE
- BLOWOFF ASSEMBLY
- STREAM/POND
- EXISTING SANITARY SEWER
- EXISTING GAS LINE
- PLUG
- FENCE

WATER LINE RELOCATION PROJECT
GREEN TAYLOR WATER DISTRICT
SUMMARY OF QUANTITIES

PROPOSED ITEMS	DESCRIPTION	UNIT	QUANTITY
6" WATER LINE (C-900 CL. 200)		L.F.	10250
8" WATER LINE (C-900 CL. 200)		L.F.	430
4" WATER LINE (C-900 CL. 200)		L.F.	450
12" STEEL CASING PIPE (ROAD BORE)		L.F.	355
17" STEEL CASING PIPE (OPEN CUT)		L.F.	1014
CRUSHED STONE		TON	325
CREEK CROSSING (DIRECTIONAL BORE)		L.F.	140
SERVICE LINE		L.F.	281
6" GATE VALVE		EA.	5
4" GATE VALVE		EA.	5
3" NOZZLE BLOWOFF HYDRANT		EA.	5
4" BLOWOFF ASSEMBLY		EA.	1
PREPARED WATER METER		EA.	1
GRAVEL REPLACEMENT (DRIVEWAYS)		L.F.	135
CONNECTION TO EXISTING WATER LINE (ALL SIZES AND TYPES)		EA.	1
ABANDONED ITEMS			
EXISTING WATER LINE TO BE ABANDONED		L.F.	9840
EXISTING METER TO BE ABANDONED		EA.	1

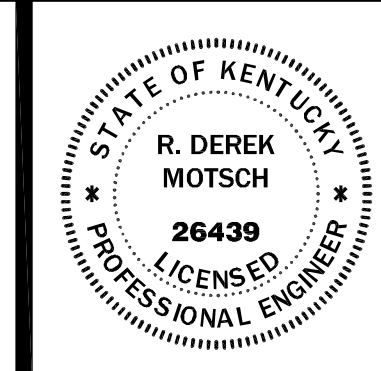
SHEET INDEX

- U2 GENERAL NOTES/LEGEND/SUMMARY OF QUANTITIES/SHEET INDEX/VICINITY MAP/TOPOGRAPHIC MAP
- U3 STA. 340+00 TO STA. 345+00
- U4 STA. 345+00 TO STA. 360+00
- U5 STA. 360+00 TO STA. 375+00
- U6 STA. 375+00 TO STA. 390+00
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- U9 STA. 416+00 TO STA. 431+00
- U10 STA. 431+00 TO STA. 445+00
- U11 STA. 445+00 TO STA. 460+00
- U12 CROSS SECTIONS
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- U15 STANDARD DETAILS
- U16 STANDARD DETAILS
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NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 191	DATE: 9/21/2011
SCALE: AS NOTED	
DESIGNED BY: RDM	
DRAWN BY: JH	
CHECKED BY: JMR	
RECORD DRAWINGS	

CANN-TECH, LLC
 Engineers · Planners · Managers
 1100 Glensboro Road
 Lawrenceburg, KY 40342
 Phone (502) 859-0907
 Fax (502) 859-0668

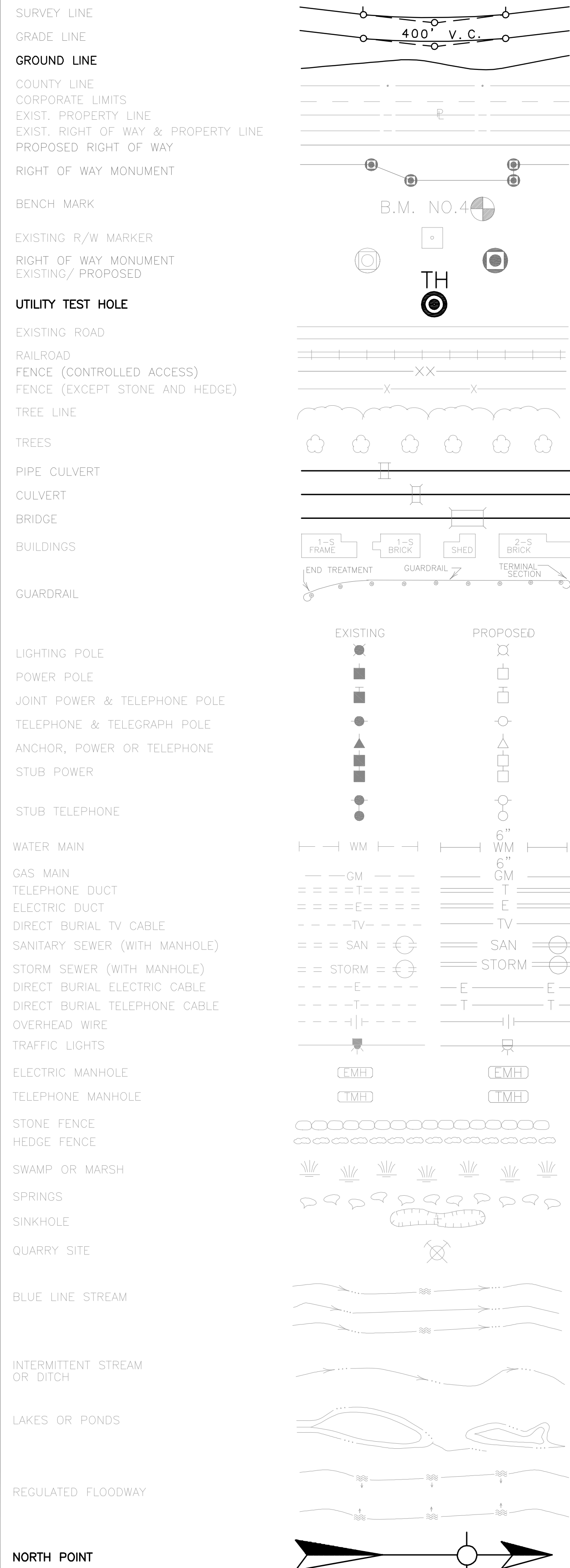


WATER LINE RELOCATION PROJECT
MORGAN COUNTY WATER DISTRICT
MORGAN COUNTY, KENTUCKY
 GENERAL NOTES/LEGEND/SUMMARY OF QUANTITIES/
 SHEET INDEX/VICINITY MAP/TOPOGRAPHIC MAP

SHEET
U2
OF
U18

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-8003	U3

CONVENTIONAL SIGNS



UTILITIES

MOUNTAIN TELEPHONE
405 MAIN STREET
WEST LIBERTY, KY. 41472
606-743-3121

LICKING VALLEY R.E.C.C.
MAIN STREET
WEST LIBERTY, KY. 41472
606-743-3179

MORGAN CO. WATER DISTRICT
450 PRESTONBURG STREET
WEST LIBERTY, KY. 41472
606-743-1204

SUMMARY OF QUANTITIES KY 172 RELOCATION			
DESCRIPTION	UNIT	QTY.	
6" WATER LINE (C-200, CL. 200)	L.F.	438	
12" STEEL CASING PIPE (ROAD BORE)	L.F.	35	
CONNECT TO EXISTING WATER LINE (ALL SIZES AND TYPES)	E.A.	1	
ABANDONED 6" WATER LINE	L.F.	328	

INSTALL
1-6" TAPPING SLEEVE
1-6" TAPPING VALVE
1-CONCRETE TRUSS BLOCKING
1-6" CUT AND CAP (AFTER BAC-T'S
AND PRESSURE TEST HAS BEEN
COMPLETED)

	WATER LINE RELOCATION PROJECT			JOB	191
	MORGAN COUNTY WATER DISTRICT			SHEET	U3
MORGAN COUNTY, KENTUCKY			OF	U18	
SCALE: 1"=50'		STA. 340+00 TO STA. 345+00	DATE: 9/21/01		
NO.	DATE	REVISIONS			

BEFORE YOU DIG

CALL 1-800-752-6007 TOLL FREE A MINIMUM OF TWO AND NO MORE THAN TEN BUSINESS DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES WHICH SUBSCRIBE TO THE BEFORE-U-DIG (BUD) SERVICE. COORDINATE EXCAVATION WITH ALL UTILITY OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO BUD. SHOW ALL UTILITIES AND A CONTACT PERSON FOR EACH COMPANY ON SHEET NO. 3 OF THE PLANS.

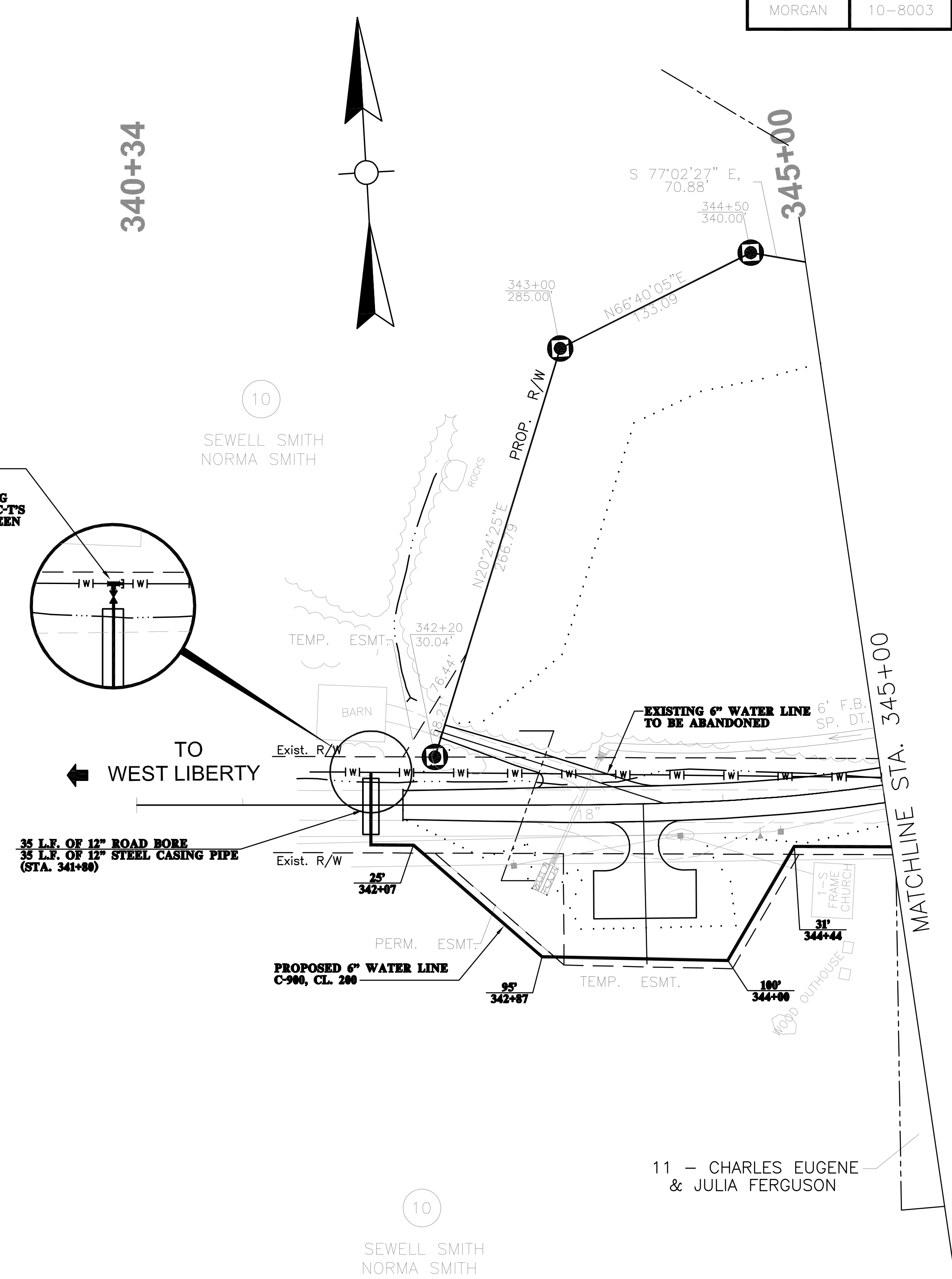
ORIGIN OF LEVELS

MONUMENT KTC 503 GPS NETWORK
PROJECT DATUM N168657.78, E1943130.50
ELEVATION 794.40

PROJECT COORDINATES

Coordinates for horizontal control were obtained from GPS methods and adjusted to the NAD83/1994 State Plane Coordinate System. The basis for horizontal control is PENN and OWEN, Kentucky HARN points located in Morgan and Lawrence Counties. The basis for vertical control is N 90, First Order Class I NGS Benchmark and R 292, Second Order Class O NGS Benchmark located near the project site.

A project datum factor of 1.00003316 was computed from the central most point to convert the State Plane Coordinates to Project Coordinates. Coordinates shown are on Project Datum, to obtain State Plane Coordinates, divide the Project Coordinates by the project datum factor.



**RIGHT OF WAY
PLANS**

SCALE: 1" = 50'

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
MORGAN

WEST LIBERTY - STAFFORDSVILLE RD. (KY.172)
PROJECT NUMBERS: FDO4 C088 698120-1D

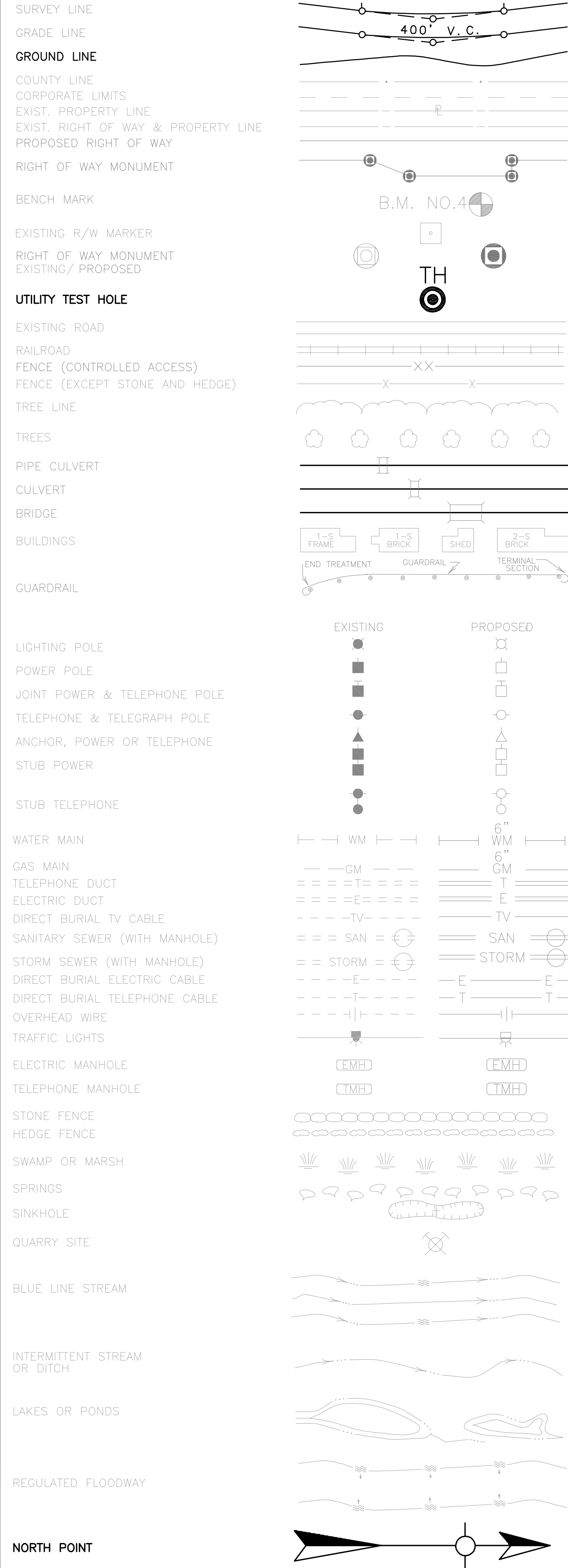
MAINLINE KY 172
STA. 340+00 to STA. 345+00

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FILE NAME: \$\$\$designfile\$specification\$\$\$
E-SHEET NAME:

COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-8003	U3

△ REVISED 12-07-11

CONVENTIONAL SIGNS



UTILITIES

MOUNTAIN TELEPHONE
405 MAIN STREET
WEST LIBERTY, KY. 41472
606-743-3121

LICKING VALLEY R.E.C.C.
MAIN STREET
WEST LIBERTY, KY. 41472
606-743-3179

MORGAN CO. WATER DISTRICT
450 PRESTONBURG STREET
WEST LIBERTY, KY. 41472
606-743-1204

SUMMARY OF QUANTITIES KY 172 RELOCATION			
DESCRIPTION	UNIT	QTY.	
6" WATER LINE (C-900, CL. 200)	L.F.	438	△
12" STEEL CASING PIPE (ROAD BORE)	L.F.	35	
CONNECT TO EXISTING WATER LINE (ALL SIZES AND TYPES)	E.A.	1	
ABANDONED 6" WATER LINE	L.F.	328	

INSTALL
1-6" TAPPING SLEEVE
1-6" TAPPING VALVE
1-CONCRETE TRUSS BLOCKING
1-6" CUT AND CAP (AFTER BAC-T'S
AND PRESSURE TEST HAS BEEN
COMPLETED)

	WATER LINE RELOCATION PROJECT			JOB	191
	MORGAN COUNTY WATER DISTRICT			SHEET	U3
	MORGAN COUNTY, KENTUCKY			OF	U18
SCALE: 1"=50'		STA. 340+00 TO STA. 345+00	DATE: 9/21/011		
NO.	DATE	REVISIONS			

BEFORE YOU DIG

CALL 1-800-752-6007 TOLL FREE A MINIMUM OF TWO AND NO MORE THAN TEN BUSINESS DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES WHICH SUBSCRIBE TO THE BEFORE-U-DIG (BUD) SERVICE. COORDINATE EXCAVATION WITH ALL UTILITY OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO BUD. SHOW ALL UTILITIES AND A CONTACT PERSON FOR EACH COMPANY ON SHEET NO. 3 OF THE PLANS.

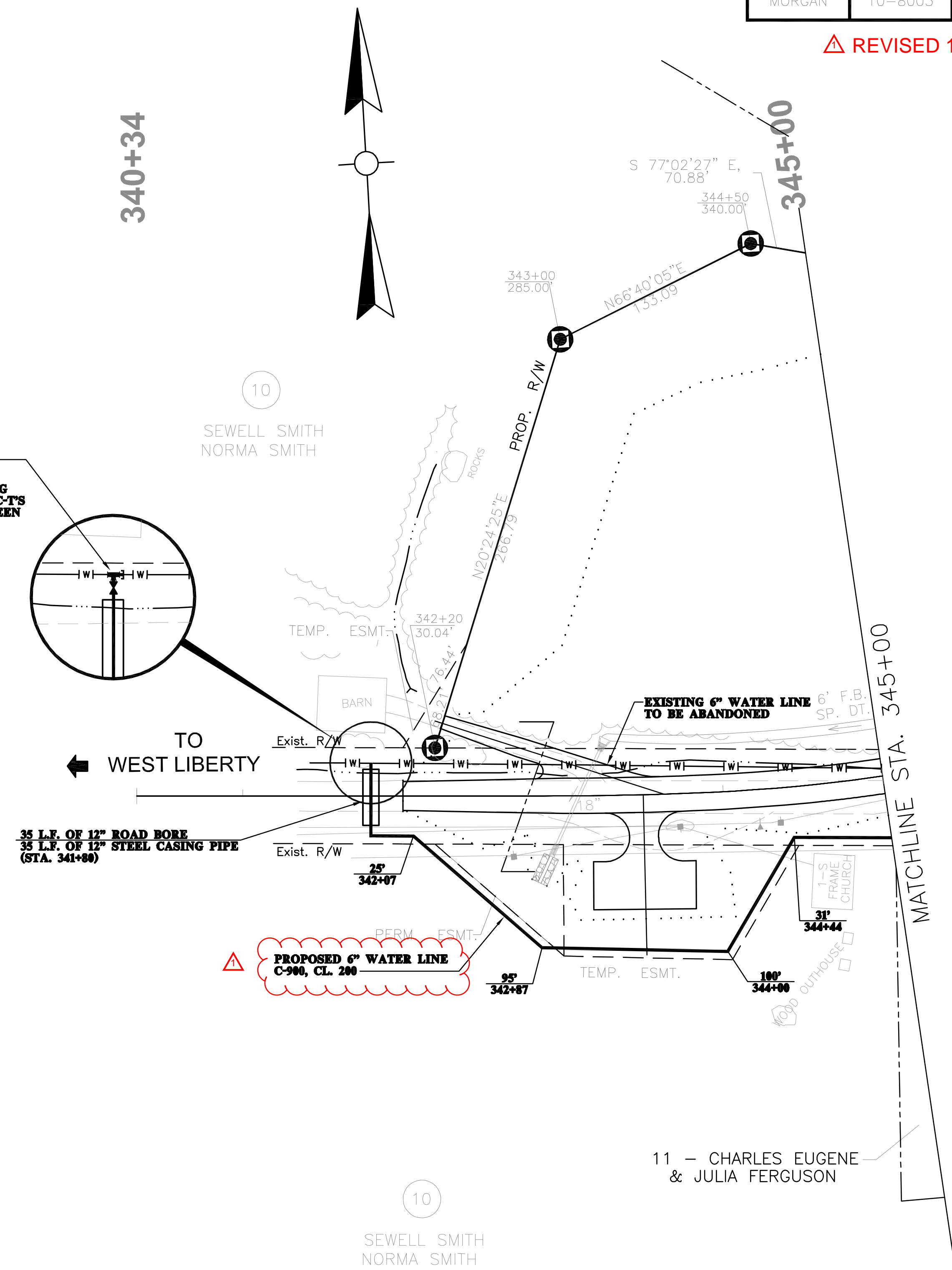
ORIGIN OF LEVELS

MONUMENT KTC 503 GPS NETWORK
PROJECT DATUM N168657.78, E1943130.50
ELEVATION 794.40

PROJECT COORDINATES

Coordinates for horizontal control were obtained from GPS methods and adjusted to the NAD83/1994 State Plane Coordinate System. The basis for horizontal control is PENN and OWEN, Kentucky HARN points located in Morgan and Lawrence Counties. The basis for vertical control is N 90, First Order Class I NGS Benchmark and R 292, Second Order Class O NGS Benchmark located near the project site.

A project datum factor of 1.00003316 was computed from the central most point to convert the State Plane Coordinates to Project Coordinates. Coordinates shown are on Project Datum, to obtain State Plane Coordinates, divide the Project Coordinates by the project datum factor.



RIGHT OF WAY PLANS

SCALE: 1" = 50'

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
MORGAN

WEST LIBERTY - STAFFORDSVILLE RD. (KY.172)
PROJECT NUMBERS: FDO4 C088 698120-1D

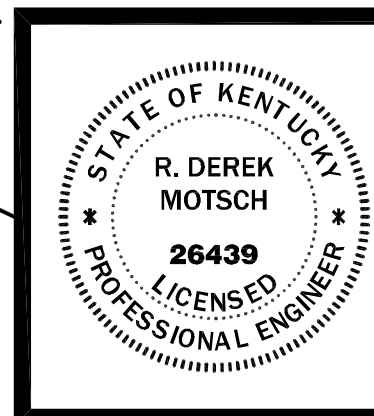
MAINLINE KY 172
STA. 340+00 to STA. 345+00

USER: \$\$\$USER\$\$\$
DATE: \$\$\$DATE\$\$\$
FILE NAME: \$\$\$designfile\$specification\$\$\$
E-SHEET NAME:

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

SUMMARY OF QUANTITIES KY 172 RELOCATION			
DESCRIPTION	UNIT	QTY.	
6" WATER LINE (C-900, CL. 200)	L.F.	495	
4" WATER LINE (C-900, CL. 200)	L.F.	317	
12" STEEL CASING PIPE (ROAD BORE)	L.F.	39	
12" STEEL CASING PIPE (OPEN CUT)	L.F.	174	
CRUSHED STONE	TON	65	
3 NOZZLE BLOWOFF HYDRANT	EA.	1	
4" BLOWOFF ASSEMBLY	EA.	1	
CONNECT TO EXISTING WATER LINE (ALL SIZES AND TYPES)	EA.	2	
ABANDONED 6" WATER LINE	L.F.	463	

INSTALL
 1-6" TAPPING SLEEVE
 1-6" TAPPING VALVE
 1-6" TAPPING VALVE
 1-6" TAPPING VALVE
 2-CONCRETE THRUST BLOCKING
 1-6" CUT AND CAP (AFTER BAC-T'S
 AND PRESSURE TEST HAS BEEN
 COMPLETED)



WATER LINE RELCOATION PROJECT
MORGAN COUNTY WATER DISTRICT
MORGAN COUNTY, KENTUCKY
 SCALE: 1"=50' STA. 345+00 TO STA. 360+00 DATE: 9/21/2011

NO.	DATE	REVISIONS

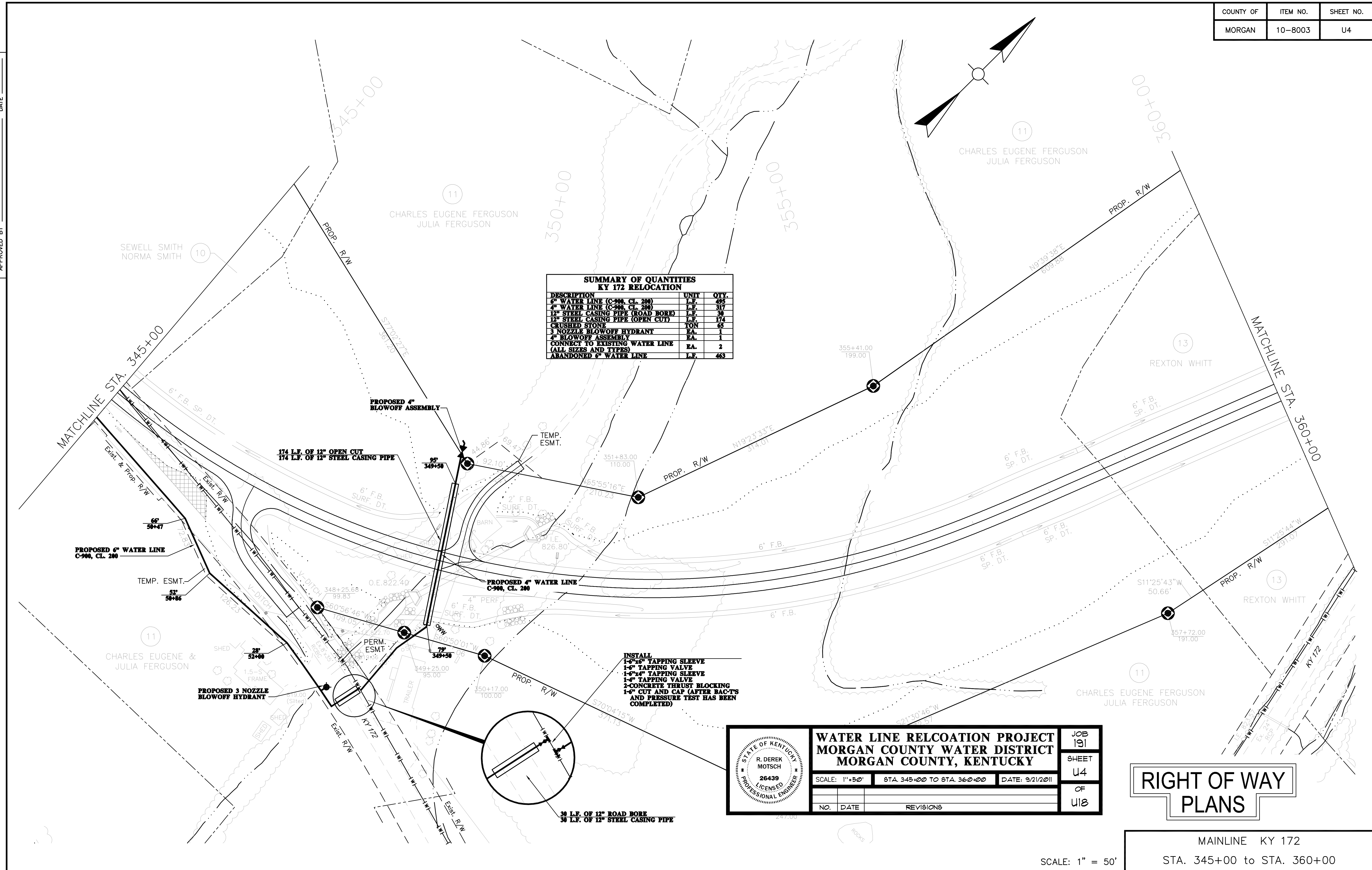
JOB 191
 SHEET U4
 OF U18

RIGHT OF WAY PLANS

MAINLINE KY 172
 STA. 345+00 to STA. 360+00

SCALE: 1" = 50'

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 DATE: \$\$\$DATE\$\$\$
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 E-SHEET NAME:

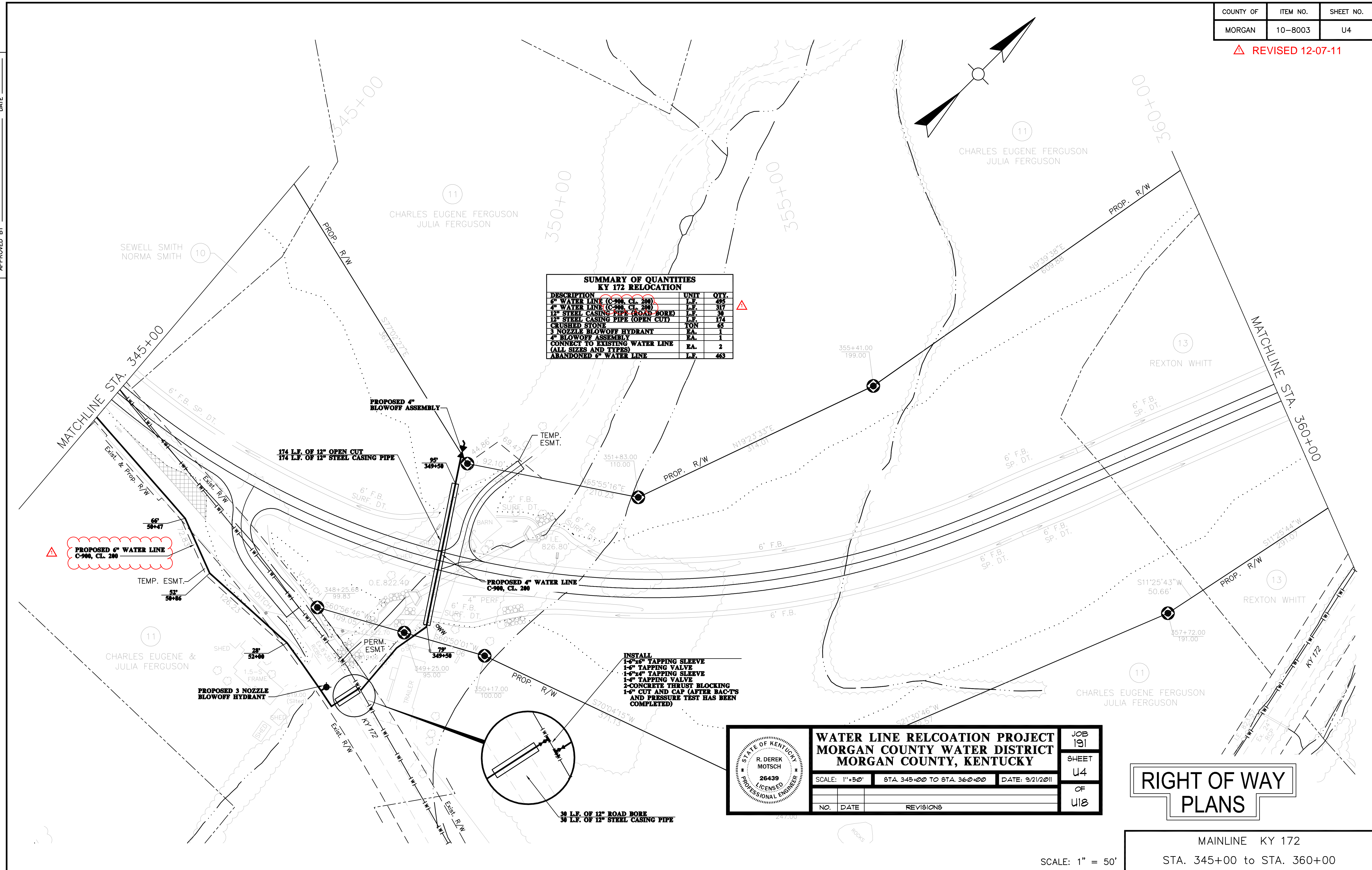


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△ REVISED 12-07-11

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

SUMMARY OF QUANTITIES KY 172 RELOCATION			
DESCRIPTION	UNIT	QTY.	
6" WATER LINE (C-900, CL. 200)	L.F.	495	△
4" WATER LINE (C-900, CL. 200)	L.F.	317	
12" STEEL CASING PIPE (ROAD BORE)	L.F.	30	
12" STEEL CASING PIPE (OPEN CUT)	L.F.	174	
CRUSHED STONE	TON	65	
3 NOZZLE BLOWOFF HYDRANT	EA.	1	
4" BLOWOFF ASSEMBLY	EA.	1	
CONNECT TO EXISTING WATER LINE (ALL SIZES AND TYPES)	EA.	2	
ABANDONED 6" WATER LINE	L.F.	463	



△ PROPOSED 6" WATER LINE
C-900, CL. 200

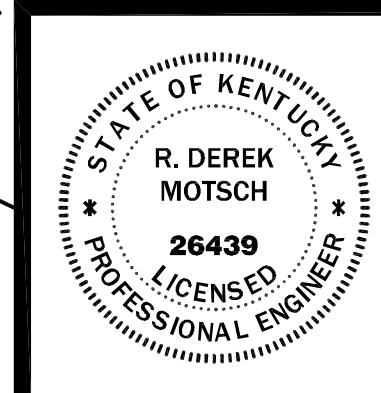
174 L.F. OF 12" OPEN CUT
174 L.F. OF 12" STEEL CASING PIPE

PROPOSED 4" BLOWOFF ASSEMBLY

PROPOSED 4" WATER LINE
C-900, CL. 200

INSTALL
1-6" TAPPING SLEEVE
1-6" TAPPING VALVE
1-6" TAPPING VALVE
1-6" TAPPING VALVE
2-CONCRETE THRUST BLOCKING
1-6" CUT AND CAP (AFTER BACT'S
AND PRESSURE TEST HAS BEEN
COMPLETED)

30 L.F. OF 12" ROAD BORE
30 L.F. OF 12" STEEL CASING PIPE



WATER LINE RELCOATION PROJECT
MORGAN COUNTY WATER DISTRICT
MORGAN COUNTY, KENTUCKY

SCALE: 1"=50' STA. 345+00 TO STA. 360+00 DATE: 9/21/2011

NO.	DATE	REVISIONS

JOB
191

SHEET
U4

OF
U18

**RIGHT OF WAY
PLANS**

MAINLINE KY 172
STA. 345+00 to STA. 360+00

SCALE: 1" = 50'

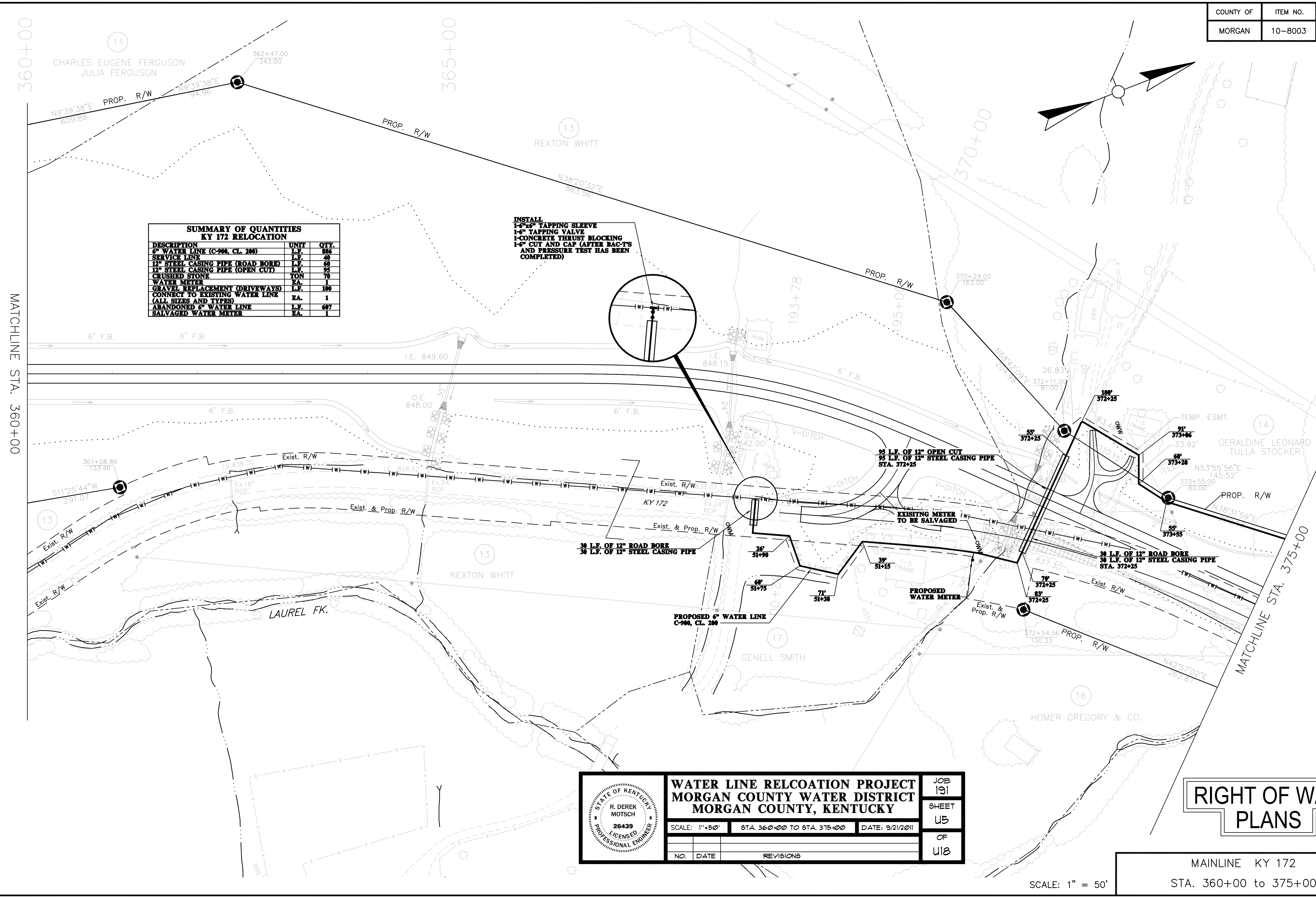
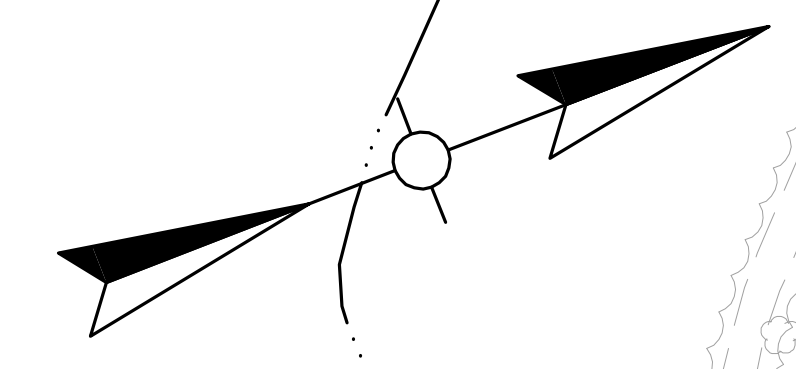
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COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-8003	U5

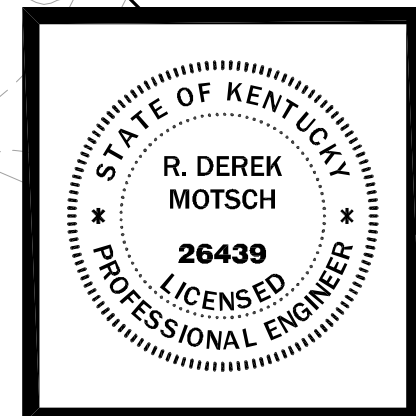
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 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

SUMMARY OF QUANTITIES KY 172 RELOCATION		
DESCRIPTION	UNIT	QTY.
6" WATER LINE (C-908, CL. 200)	L.F.	886
SERVICE LINE	L.F.	40
12" STEEL CASING PIPE (ROAD BORE)	L.F.	60
12" STEEL CASING PIPE (OPEN CUT)	L.F.	95
CRUSHED STONE	TON	70
WATER METER	EA.	1
GRAVEL REPLACEMENT (DRIVEWAYS) CONNECT TO EXISTING WATER LINE (ALL SIZES AND TYPES)	EA.	1
ABANDONED 6" WATER LINE	L.F.	647
SALVAGED WATER METER	EA.	1

INSTALL
 1-6" TAPPING SLEEVE
 1-6" TAPPING VALVE
 1-CONCRETE THRUST BLOCKING
 1-6" CUT AND CAP (AFTER BAC-T'S
 AND PRESSURE TEST HAS BEEN
 COMPLETED)



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 E-SHEET NAME:



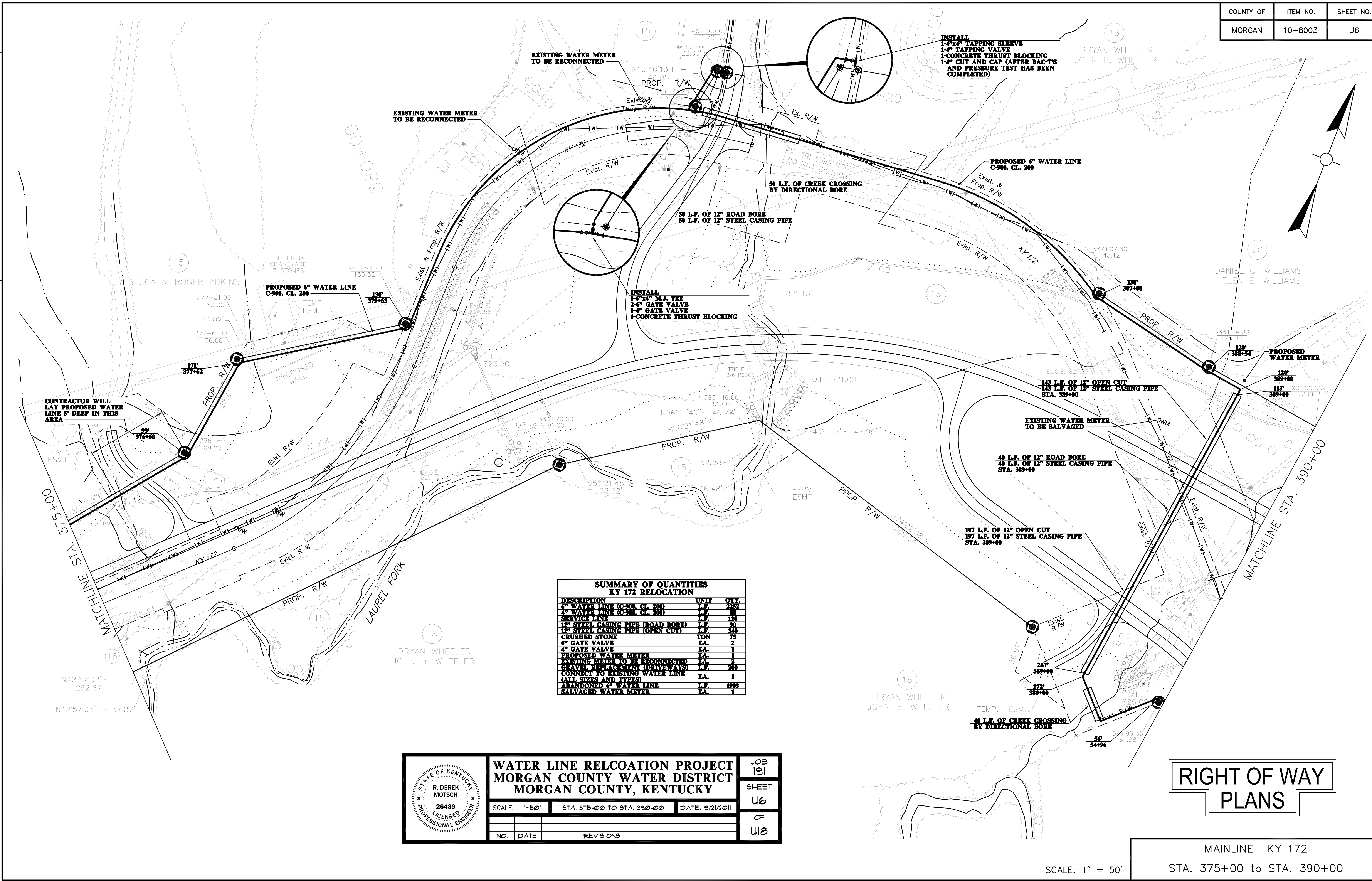
WATER LINE RELOCATION PROJECT			JOB	191
MORGAN COUNTY WATER DISTRICT			SHEET	U5
MORGAN COUNTY, KENTUCKY			OF	U18
SCALE:	1"=50'	STA. 360+00 TO STA. 375+00	DATE:	9/21/2011
NO.	DATE	REVISIONS		

**RIGHT OF WAY
PLANS**

SCALE: 1" = 50'

MAINLINE KY 172
 STA. 360+00 to 375+00

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____



**SUMMARY OF QUANTITIES
KY 172 RELOCATION**

DESCRIPTION	UNIT	QTY.
6" WATER LINE (C-900, CL. 200)	L.F.	2252
6" WATER LINE (C-900, CL. 200)	L.F.	89
SERVICE LINE	L.F.	128
12" STEEL CASING PIPE (ROAD BORE)	L.F.	90
12" STEEL CASING PIPE (OPEN CUT)	L.F.	346
CRUSHED STONE	TON	75
6" GATE VALVE	EA.	2
4" GATE VALVE	EA.	1
PROPOSED WATER METER	EA.	1
EXISTING METER TO BE RECONNECTED	EA.	2
GRAVEL REPLACEMENT (DRIVEWAYS)	L.F.	288
CONNECT TO EXISTING WATER LINE (ALL SIZES AND TYPES)	EA.	1
ABANDONED 6" WATER LINE	L.F.	1903
SALVAGED WATER METER	EA.	1

STATE OF KENTUCKY
R. DEREK MOTSCH
26439
LICENSED PROFESSIONAL ENGINEER

WATER LINE RELOCATION PROJECT
MORGAN COUNTY WATER DISTRICT
MORGAN COUNTY, KENTUCKY

JOB 191
SHEET U6
OF U18

SCALE: 1"=50'	STA. 375+00 TO STA. 390+00	DATE: 9/21/2011
NO.	DATE	REVISIONS

**RIGHT OF WAY
PLANS**

MAINLINE KY 172
STA. 375+00 to STA. 390+00

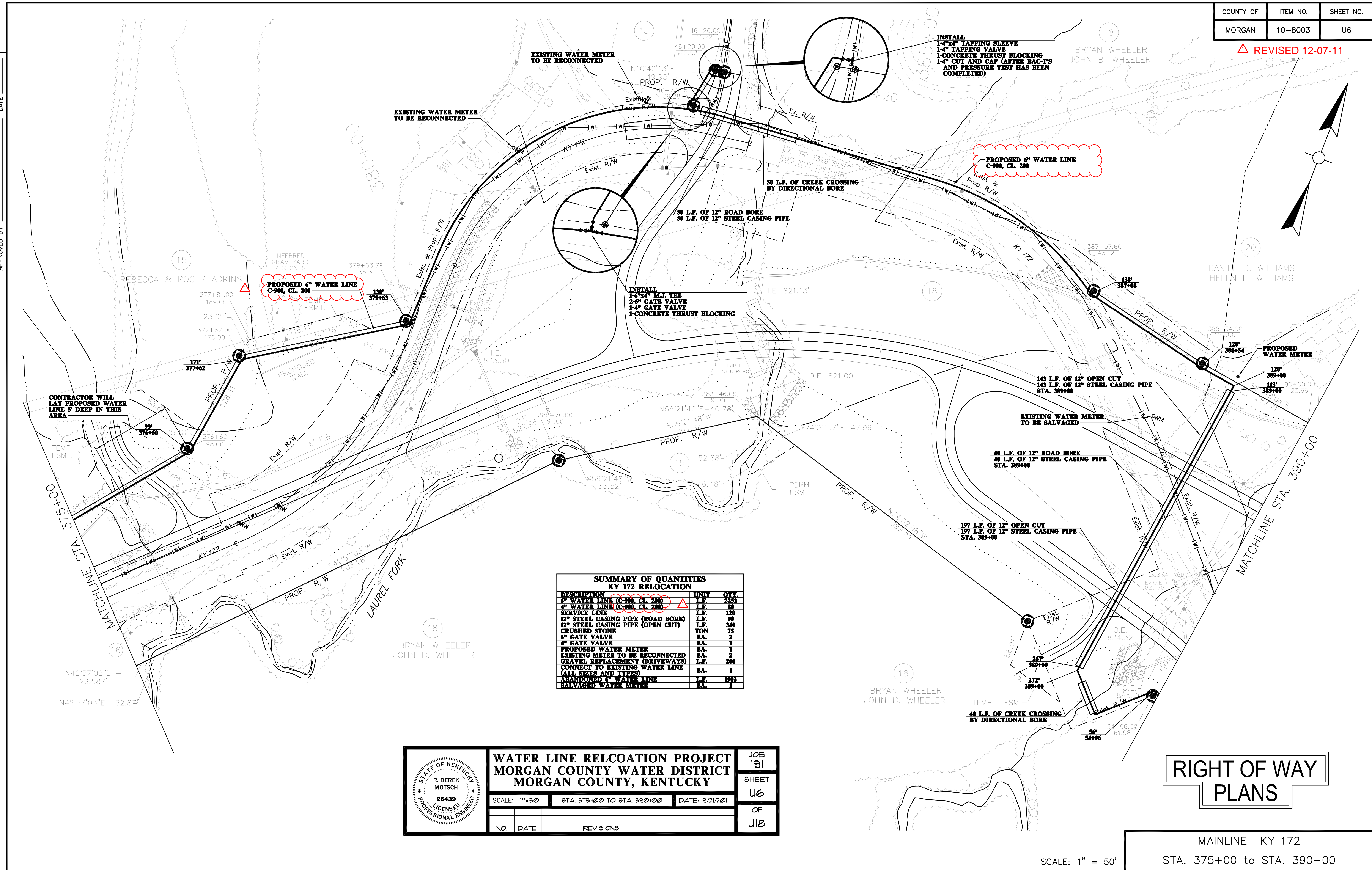
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REVISD 12-07-11

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____



SUMMARY OF QUANTITIES KY 172 RELOCATION			
DESCRIPTION	UNIT	QTY.	
6" WATER LINE (C-900, CL. 200)	L.F.	2252	
6" WATER LINE (C-200, CL. 200)	L.F.	49	
SERVICE LINE	L.F.	120	
12" STEEL CASING PIPE (ROAD BORE)	L.F.	90	
12" STEEL CASING PIPE (OPEN CUT)	L.F.	340	
CRUSHED STONE	TON	75	
6" GATE VALVE	EA.	2	
4" GATE VALVE	EA.	1	
PROPOSED WATER METER	EA.	1	
EXISTING METER TO BE RECONNECTED	EA.	2	
GRAVEL REPLACEMENT (DRIVEWAYS)	L.F.	200	
CONNECT TO EXISTING WATER LINE (ALL SIZES AND TYPES)	EA.	1	
ABANDONED 6" WATER LINE	L.F.	1903	
SALVAGED WATER METER	EA.	1	

STATE OF KENTUCKY
 R. DEREK MOTSCH
 26439
 LICENSED PROFESSIONAL ENGINEER

WATER LINE RELOCATION PROJECT
MORGAN COUNTY WATER DISTRICT
MORGAN COUNTY, KENTUCKY

JOB 191
 SHEET U6
 OF U18

SCALE: 1"=50'	STA. 375+00 TO STA. 390+00	DATE: 9/21/2011
NO.	DATE	REVISIONS

RIGHT OF WAY
PLANS

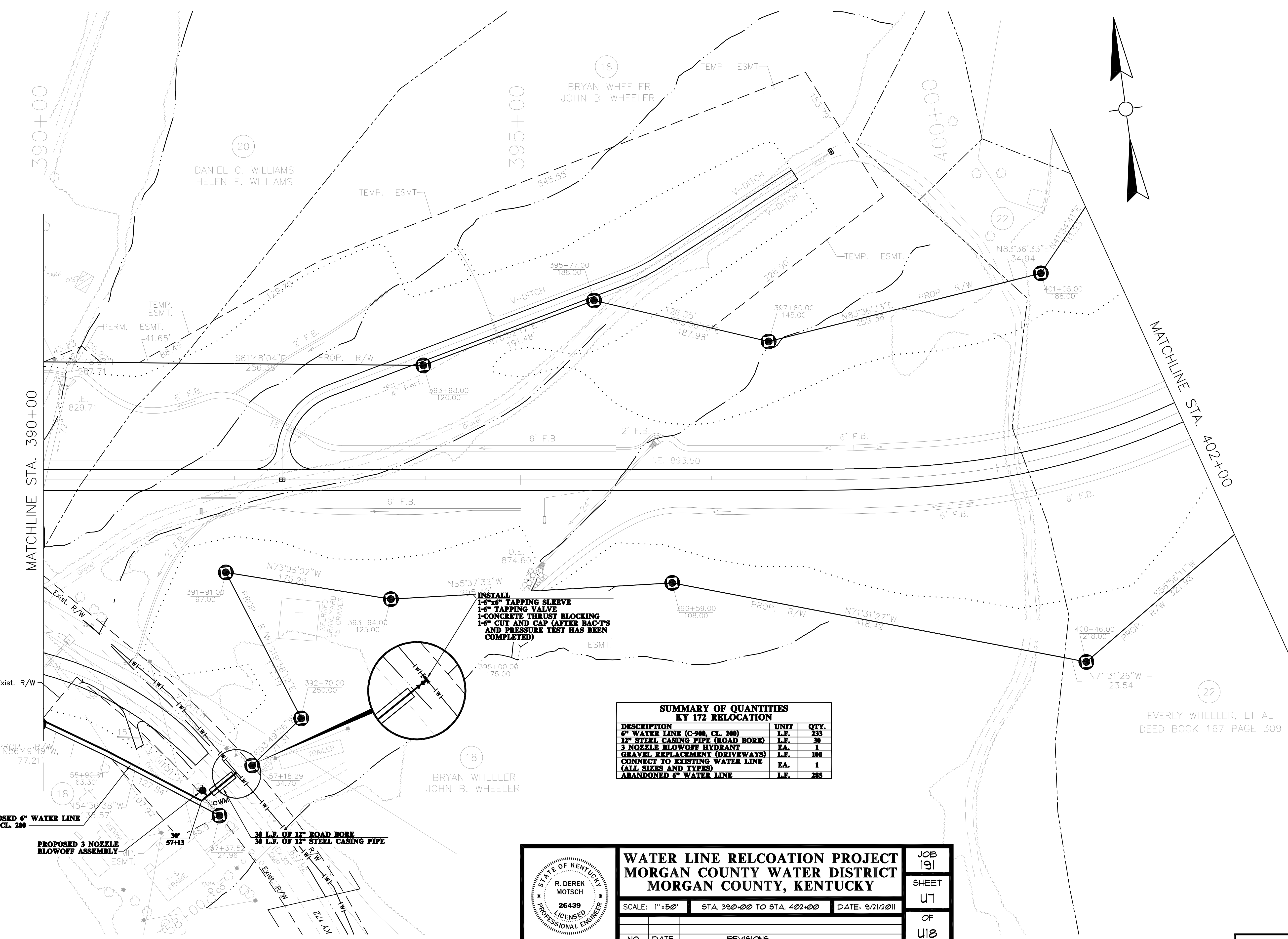
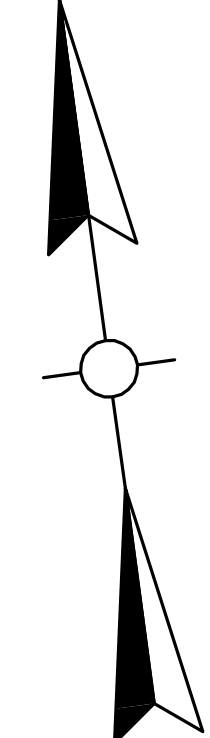
MAINLINE KY 172
 STA. 375+00 to STA. 390+00

SCALE: 1" = 50'

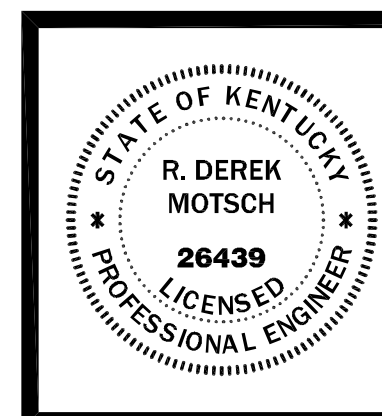
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 CHECKED BY _____ DATE _____
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SUMMARY OF QUANTITIES KY 172 RELOCATION		
DESCRIPTION	UNIT	QTY.
6" WATER LINE (C-900, CL. 200)	L.F.	233
12" STEEL CASING PIPE (ROAD BORE)	L.F.	34
3 NOZZLE BLOWOFF HYDRANT	EA.	1
GRAVEL REPLACEMENT (DRIVEWAYS)	L.F.	100
CONNECT TO EXISTING WATER LINE (ALL SIZES AND TYPES)	EA.	1
ABANDONED 6" WATER LINE	L.F.	285



WATER LINE RELOCATION PROJECT
MORGAN COUNTY WATER DISTRICT
MORGAN COUNTY, KENTUCKY

SCALE: 1" = 50' STA. 390+00 TO STA. 402+00 DATE: 9/21/2011

NO.	DATE	REVISIONS

JOB
191

SHEET
U7

OF
U18

**RIGHT OF WAY
PLANS**

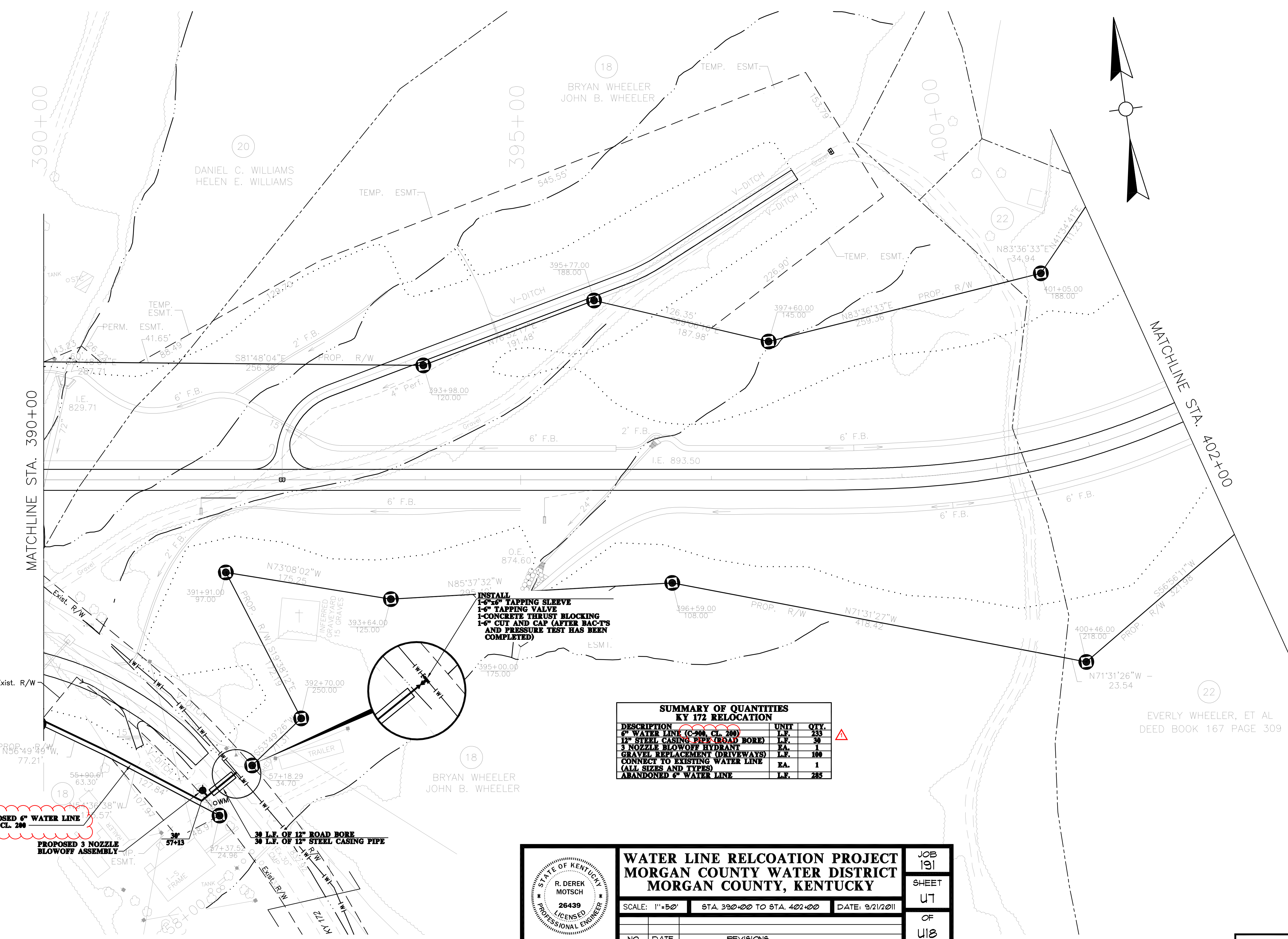
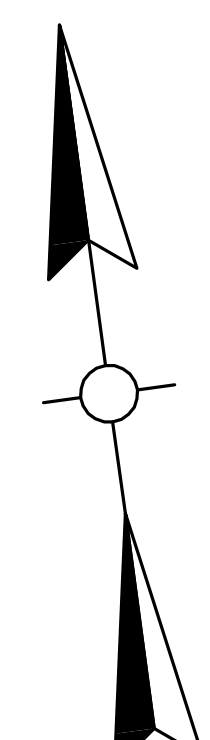
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 STA. 390+00 to STA. 402+00

SCALE: 1" = 50'

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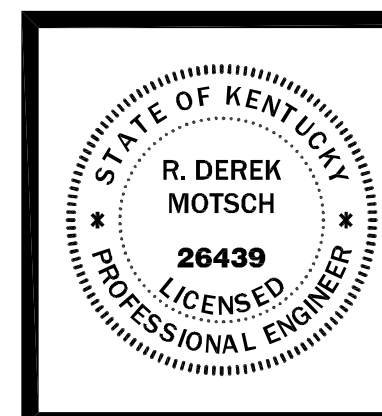
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 APPROVED BY _____ DATE _____



**SUMMARY OF QUANTITIES
KY 172 RELOCATION**

DESCRIPTION	UNIT	QTY.
6" WATER LINE (C-900, CL. 200)	L.F.	233
12" STEEL CASING PIPE (ROAD BORE)	L.F.	34
3 NOZZLE BLOWOFF HYDRANT	E.A.	1
GRAVEL REPLACEMENT (DRIVEWAYS)	L.F.	100
CONNECT TO EXISTING WATER LINE (ALL SIZES AND TYPES)	E.A.	1
ABANDONED 6" WATER LINE	L.F.	285



**WATER LINE RELOCATION PROJECT
MORGAN COUNTY WATER DISTRICT
MORGAN COUNTY, KENTUCKY**

SCALE: 1" = 50' STA. 390+00 TO STA. 402+00 DATE: 9/21/2011

NO.	DATE	REVISIONS

JOB 191
 SHEET U7
 OF U18

PROPOSED 6" WATER LINE
C-900, CL. 200

PROPOSED 3 NOZZLE
BLOWOFF ASSEMBLY

34 L.F. OF 12" ROAD BORE
34 L.F. OF 12" STEEL CASING PIPE

**RIGHT OF WAY
PLANS**

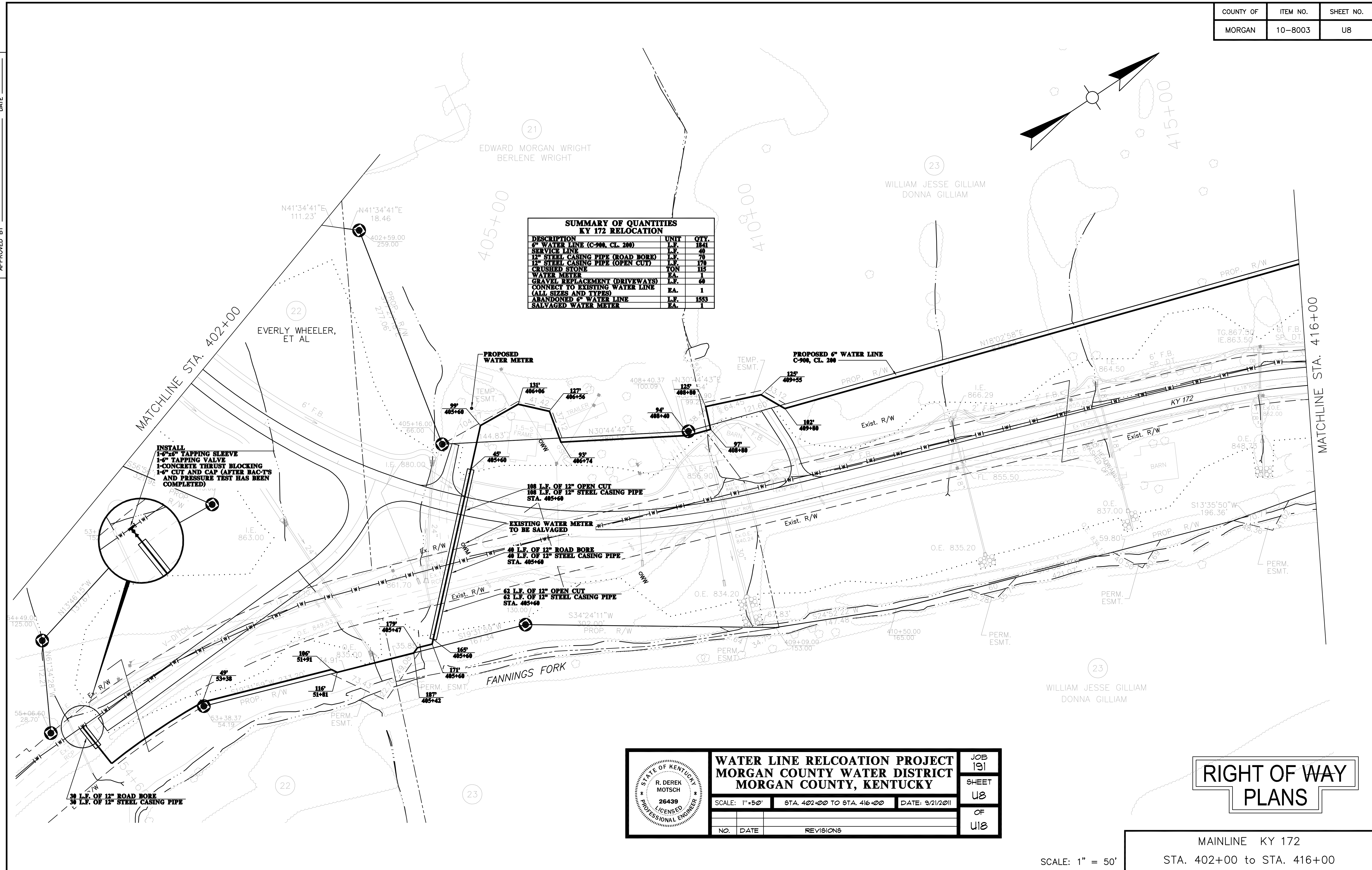
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 STA. 390+00 to STA. 402+00

SCALE: 1" = 50'

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PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

SUMMARY OF QUANTITIES KY 172 RELOCATION		
DESCRIPTION	UNIT	QTY.
6" WATER LINE (C-908, CL. 200)	L.F.	1841
SERVICE LINE	L.F.	49
12" STEEL CASING PIPE (ROAD BORE)	L.F.	70
12" STEEL CASING PIPE (OPEN CUT)	L.F.	170
CRUSHED STONE	TON	115
WATER METER	E.A.	1
GRAVEL REPLACEMENT (DRIVEWAYS)	L.F.	60
CONNECT TO EXISTING WATER LINE (ALL SIZES AND TYPES)	E.A.	1
ABANDONED 6" WATER LINE	L.F.	1553
SALVAGED WATER METER	E.A.	1



	WATER LINE RELOCATION PROJECT		JOB 191
	MORGAN COUNTY WATER DISTRICT		SHEET U8
MORGAN COUNTY, KENTUCKY		SCALE: 1" = 50'	OF U18
		STA. 402+00 TO STA. 416+00	DATE: 9/21/2011
		NO.	DATE
		REVISIONS	

**RIGHT OF WAY
PLANS**

MAINLINE KY 172
 STA. 402+00 to STA. 416+00

SCALE: 1" = 50'

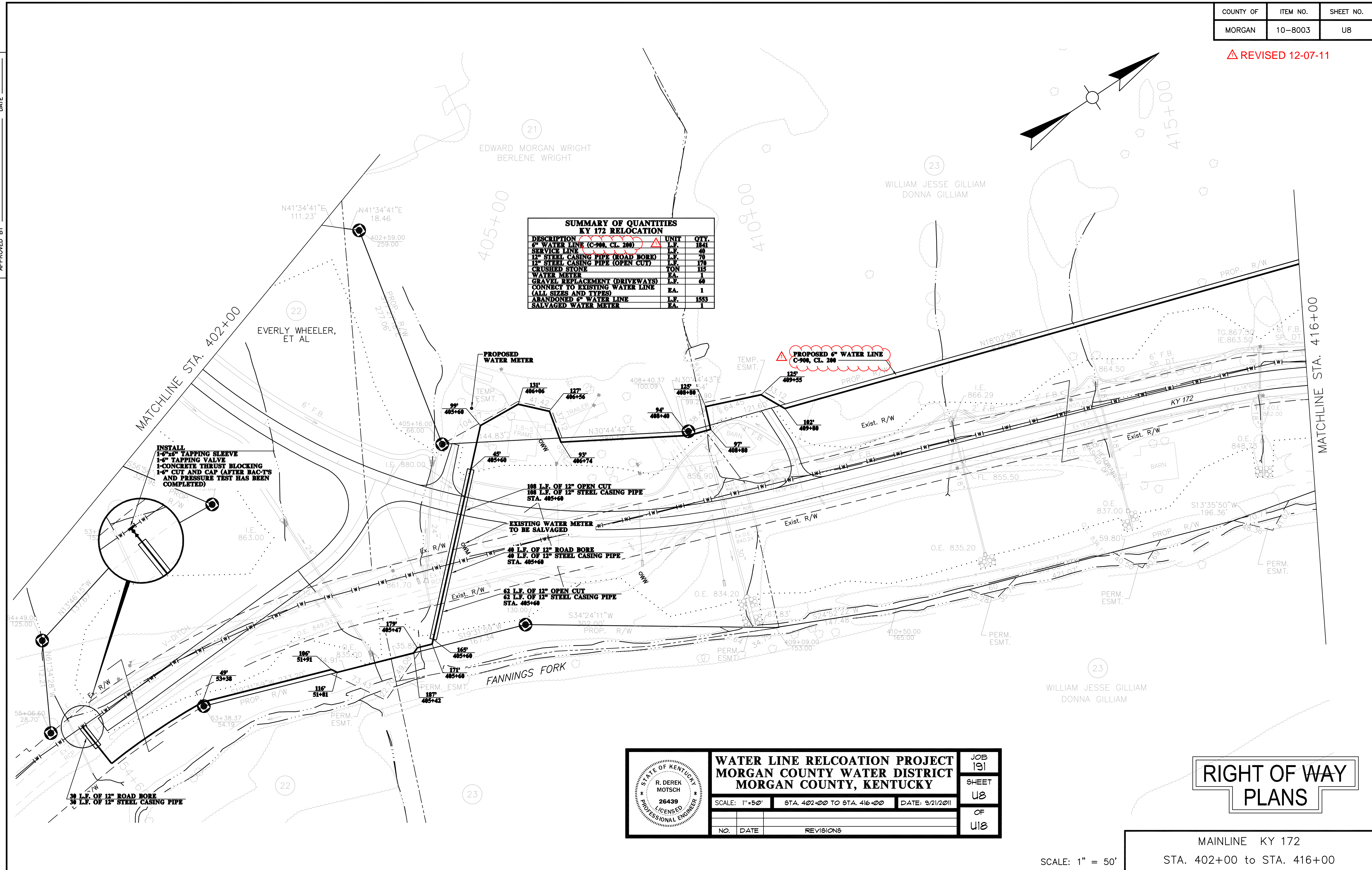
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COUNTY OF	ITEM NO.	SHEET NO.
MORGAN	10-8003	U8

△ REVISED 12-07-11

PREPARED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

SUMMARY OF QUANTITIES KY 172 RELOCATION		
DESCRIPTION	UNIT	QTY.
6" WATER LINE (C-908, CL. 200)	L.F.	1841
SERVICE LINE	L.F.	49
12" STEEL CASING PIPE (ROAD BORE)	L.F.	70
12" STEEL CASING PIPE (OPEN CUT)	L.F.	170
CRUSHED STONE	TON	115
WATER METER	E.A.	1
GRAVEL REPLACEMENT (DRIVEWAYS)	L.F.	60
CONNECT TO EXISTING WATER LINE (ALL SIZES AND TYPES)	E.A.	1
ABANDONED 6" WATER LINE	L.F.	1553
SALVAGED WATER METER	E.A.	1



INSTALL
1-3/4" TAPPING SLEEVE
1-3/4" TAPPING VALVE
1-CONCRETE THRUST BLOCKING
1-6" CUT AND CAP (AFTER BAC-T'S
AND PRESSURE TEST HAS BEEN
COMPLETED)

PROPOSED 6" WATER LINE
C-908, CL. 200

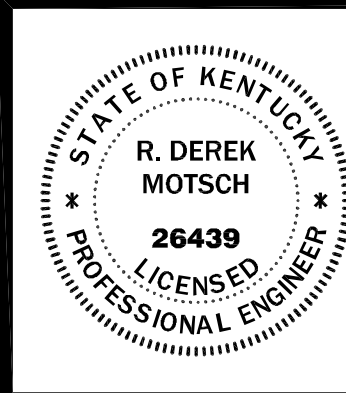
108 L.F. OF 12" OPEN CUT
108 L.F. OF 12" STEEL CASING PIPE
STA. 485+60

EXISTING WATER METER
TO BE SALVAGED

40 L.F. OF 12" ROAD BORE
40 L.F. OF 12" STEEL CASING PIPE
STA. 485+60

62 L.F. OF 12" OPEN CUT
62 L.F. OF 12" STEEL CASING PIPE
STA. 485+60

34 L.F. OF 12" ROAD BORE
34 L.F. OF 12" STEEL CASING PIPE



WATER LINE RELOCATION PROJECT MORGAN COUNTY WATER DISTRICT MORGAN COUNTY, KENTUCKY			JOB 191
SCALE: 1" = 50' STA. 402+00 TO STA. 416+00 DATE: 9/21/011			SHEET U8
NO. DATE REVISIONS			OF U18

**RIGHT OF WAY
PLANS**

MAINLINE KY 172
STA. 402+00 to STA. 416+00

SCALE: 1" = 50'

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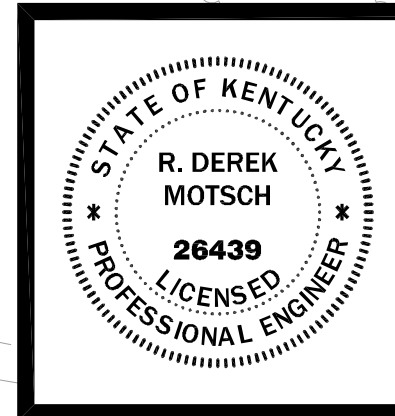
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 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

SUMMARY OF QUANTITIES KY 172 RELOCATION			
DESCRIPTION	UNIT	QTY.	
6" WATER LINE (C-900, CL. 200)	L.F.	1550	
12" STEEL CASING PIPE (ROAD BORE)	L.F.	40	
12" STEEL CASING PIPE (OPEN CUT)	L.F.	175	
6" GATE VALVE	E.A.	3	
3 NOZZLE BLOWOFF HYDRANT	E.A.	1	
ABANDONED 6" WATER LINE	L.F.	1498	

INSTALL
 1-6" M.I. TEE
 3-6" GATE VALVE
 1-CONCRETE THRUST BLOCKING

SHOWN OFF MATCH
 LINE FOR CLARITY
 CASING PIPE IS TO
 BE INSTALLED ON
 STATION 431+00

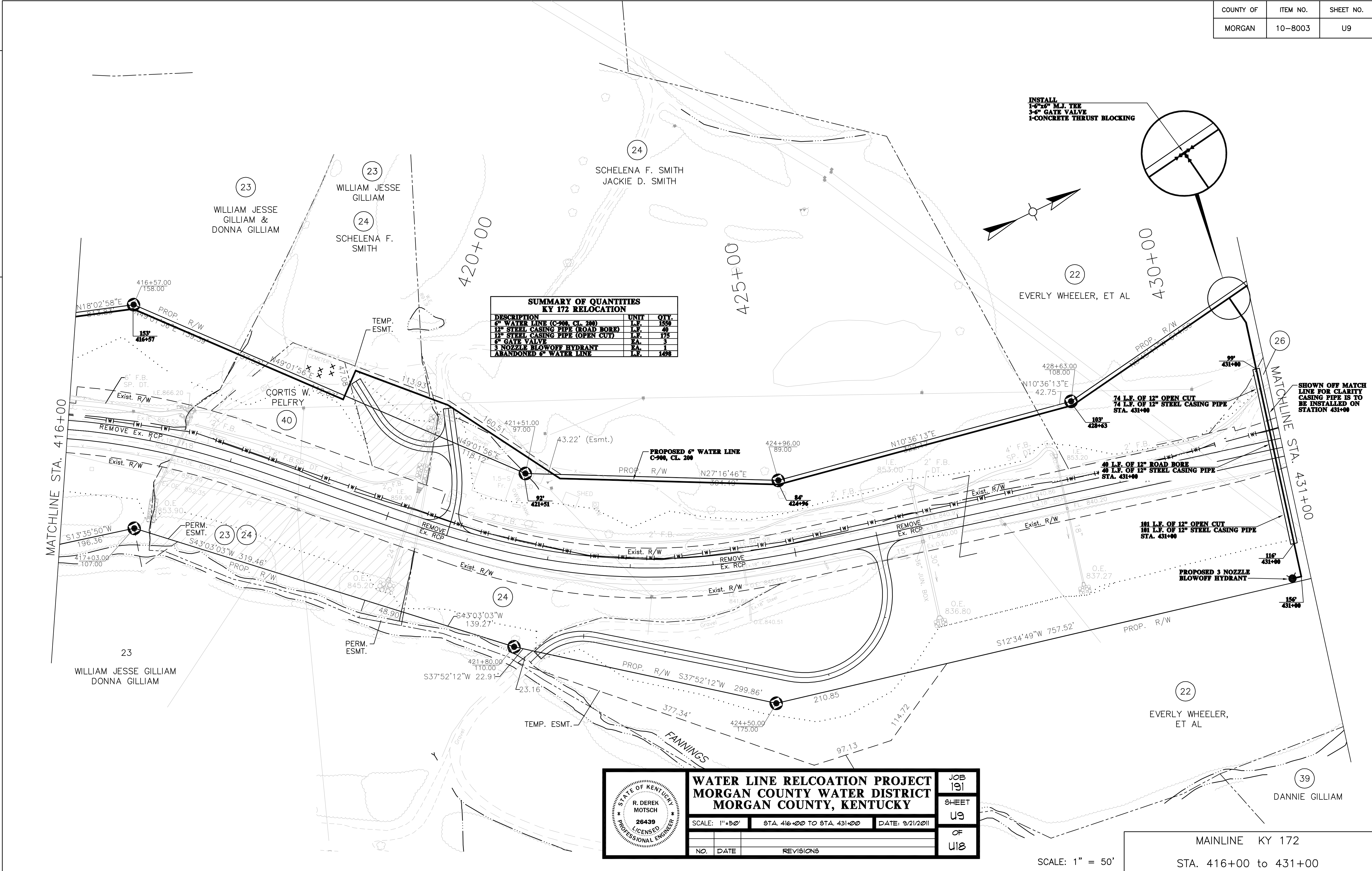
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 E-SHEET NAME: SP_2564308



WATER LINE RELOCATION PROJECT MORGAN COUNTY WATER DISTRICT MORGAN COUNTY, KENTUCKY			JOB 191
SCALE: 1" = 50' STA. 416+00 TO STA. 431+00 DATE: 9/21/2011			SHEET U9
NO. DATE REVISIONS			OF U18

SCALE: 1" = 50'

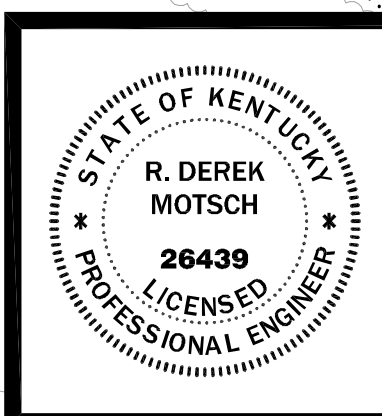
MAINLINE KY 172
 STA. 416+00 to 431+00



△ REVISED 6-08-11

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

SUMMARY OF QUANTITIES KY 172 RELOCATION			
DESCRIPTION	UNIT	QTY.	
6" WATER LINE (C-900, CL. 200)	L.F.	1550	
12" STEEL CASING PIPE (ROAD BORE)	L.F.	40	
12" STEEL CASING PIPE (OPEN CUT)	L.F.	175	
6" GATE VALVE	E.A.	3	
3 NOZZLE BLOWOFF HYDRANT	E.A.	1	
ABANDONED 6" WATER LINE	L.F.	1498	



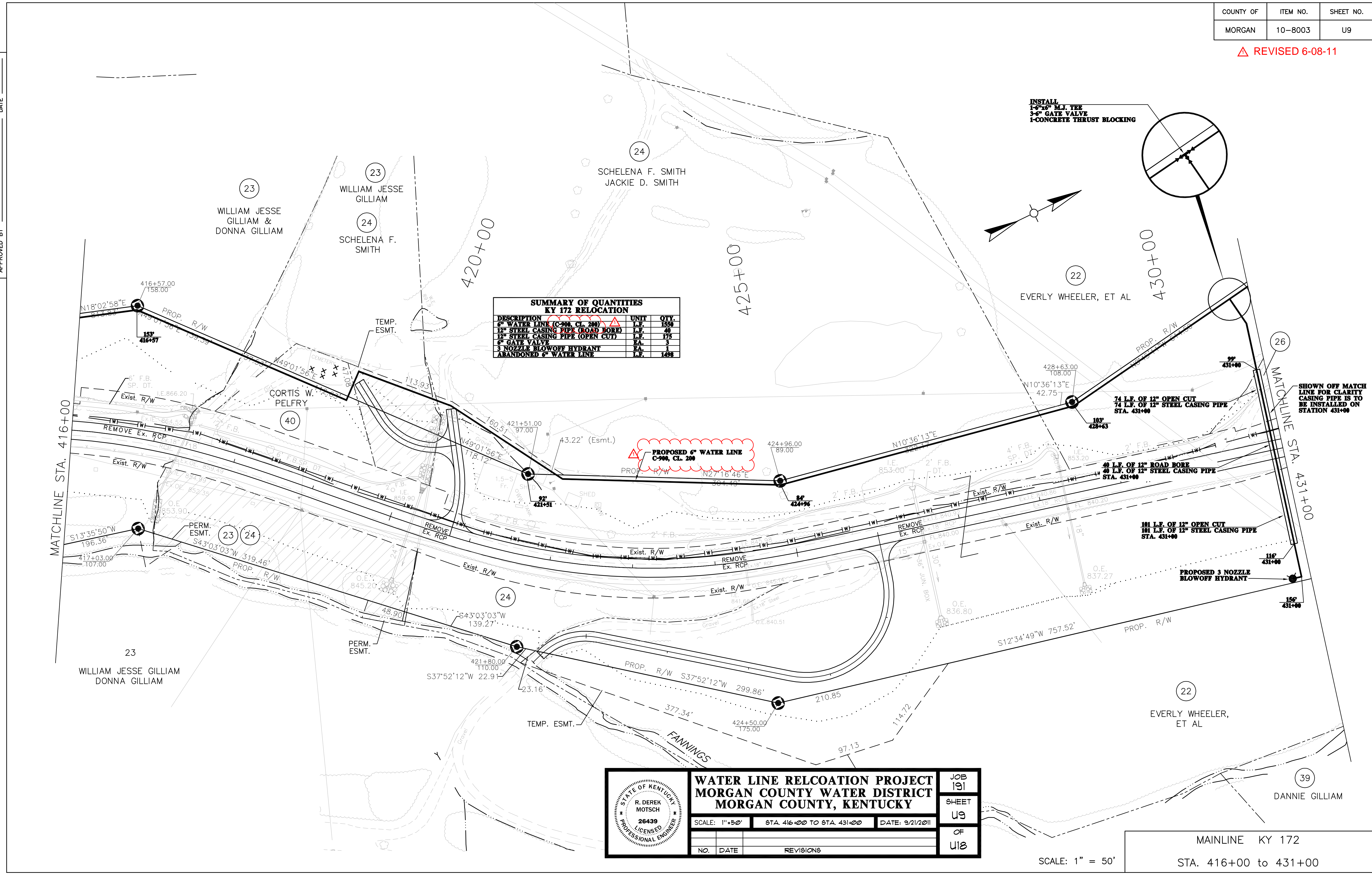
WATER LINE RELOCATION PROJECT
MORGAN COUNTY WATER DISTRICT
MORGAN COUNTY, KENTUCKY

JOB	191
SHEET	U9
OF	U18

SCALE: 1" = 50' STA. 416+00 TO STA. 431+00 DATE: 9/21/2011

NO.	DATE	REVISIONS

USER: \$\$\$USER\$\$\$\$
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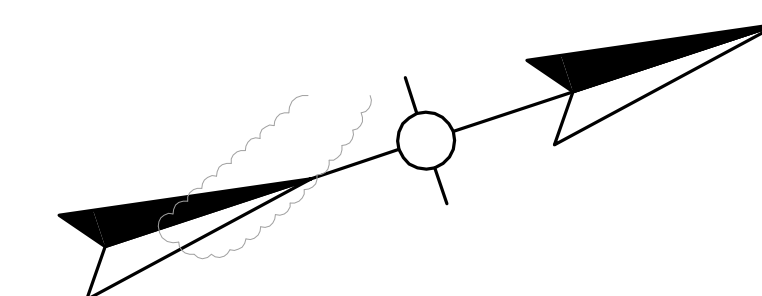


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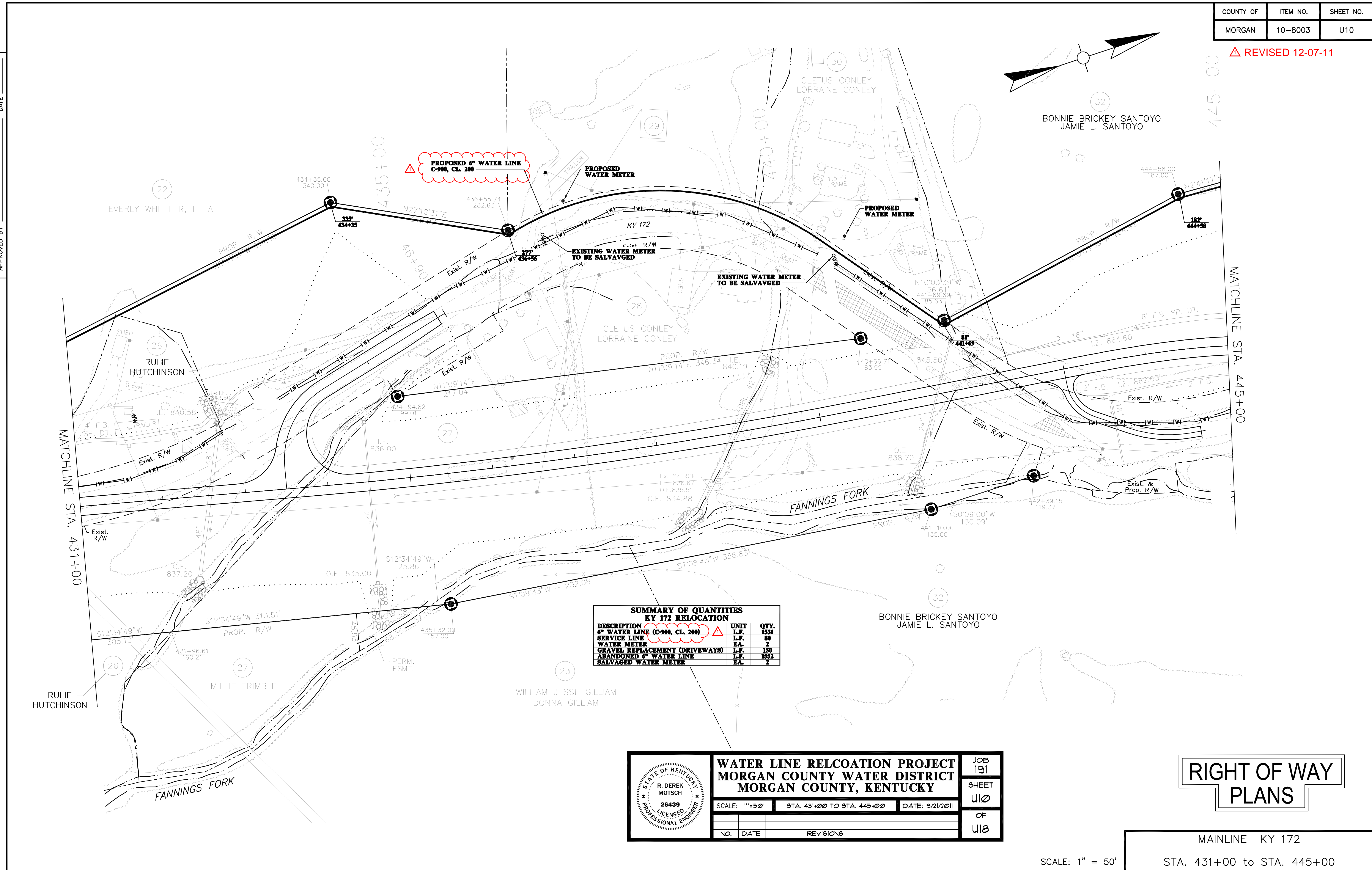
MAINLINE KY 172
 STA. 416+00 to 431+00

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▲ REVISED 12-07-11

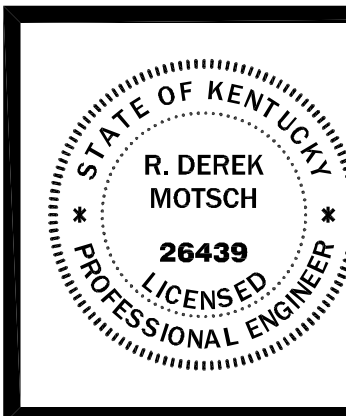


PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____



**SUMMARY OF QUANTITIES
KY 172 RELOCATION**

DESCRIPTION	UNIT	QTY.
6" WATER LINE (C-900, CL. 200)	L.F.	1531
SERVICE LINE	L.F.	89
WATER METER	EA.	2
GRAVEL REPLACEMENT (DRIVEWAYS)	L.F.	150
ABANDONED 6" WATER LINE	L.F.	1552
SALVAGED WATER METER	EA.	2



**WATER LINE RELOCATION PROJECT
MORGAN COUNTY WATER DISTRICT
MORGAN COUNTY, KENTUCKY**

SCALE: 1" = 50' STA. 431+00 TO STA. 445+00 DATE: 9/21/2011

NO.	DATE	REVISIONS

JOB 191
 SHEET U10
 OF U18

**RIGHT OF WAY
PLANS**

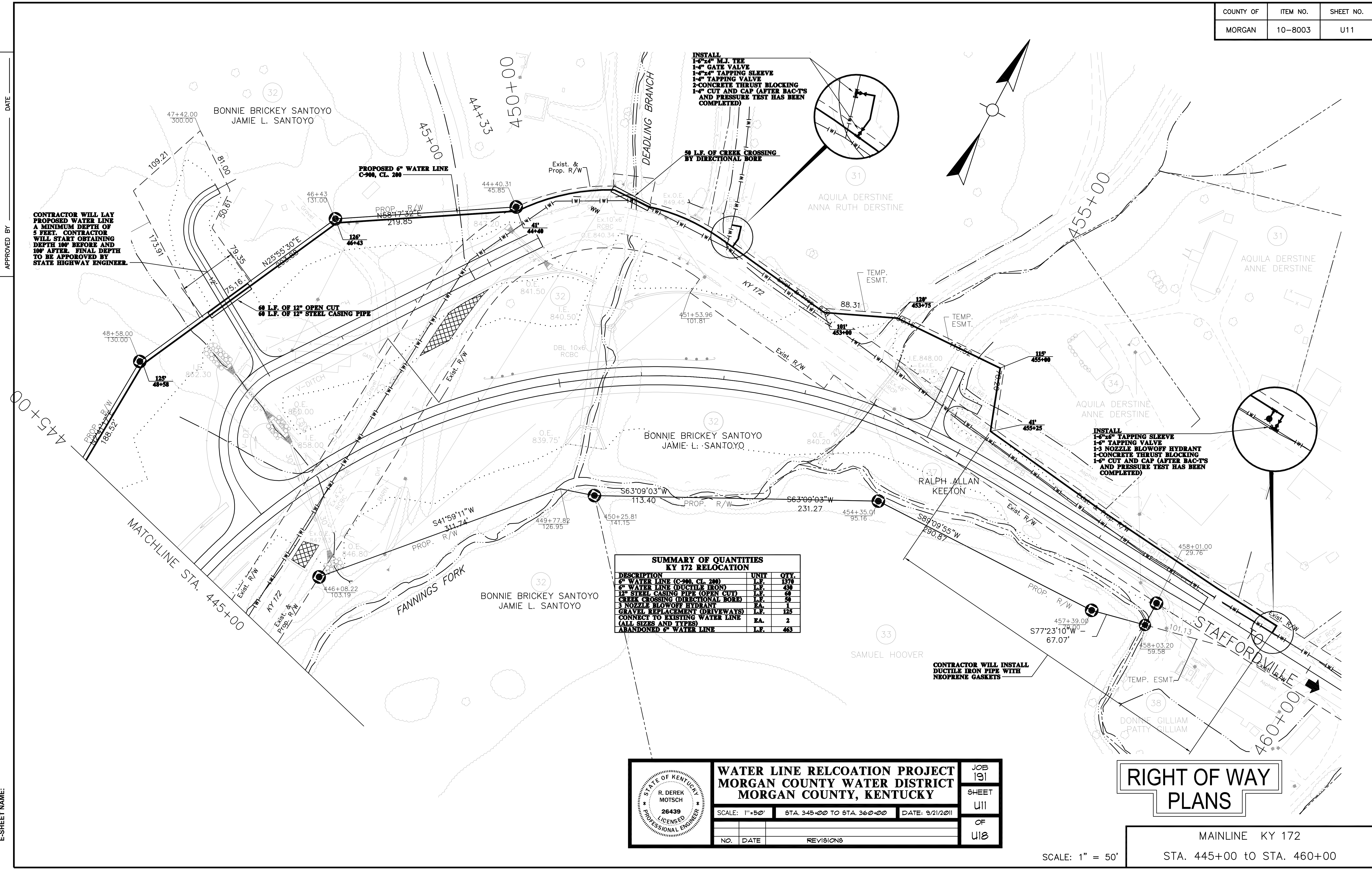
MAINLINE KY 172
 STA. 431+00 to STA. 445+00

SCALE: 1" = 50'

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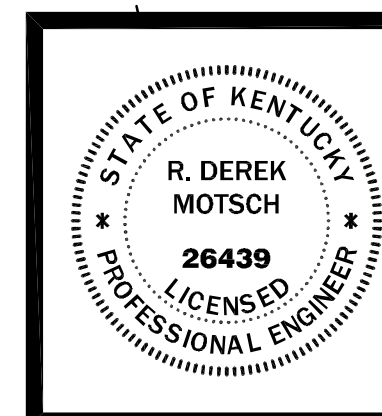
PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

CONTRACTOR WILL LAY PROPOSED WATER LINE A MINIMUM DEPTH OF 5 FEET. CONTRACTOR WILL START OBTAINING DEPTH 10' BEFORE AND 10' AFTER. FINAL DEPTH TO BE APPROVED BY STATE HIGHWAY ENGINEER.



**SUMMARY OF QUANTITIES
KY 172 RELOCATION**

DESCRIPTION	UNIT	QTY.
6" WATER LINE (C-900, CL. 200)	L.F.	174
6" WATER LINE (DUCTILE IRON)	L.F.	430
12" STEEL CASING PIPE (OPEN CUT)	L.F.	60
CREEK CROSSING (DIRECTIONAL BORE)	L.F.	50
3 NOZZLE BLOWOFF HYDRANT	E.A.	1
GRAVEL REPLACEMENT (DRIVEWAYS)	L.F.	125
CONNECT TO EXISTING WATER LINE (ALL SIZES AND TYPES)	E.A.	2
ABANDONED 6" WATER LINE	L.F.	463



**WATER LINE RELOCATION PROJECT
MORGAN COUNTY WATER DISTRICT
MORGAN COUNTY, KENTUCKY**

JOB 191
SHEET U11
OF U18

SCALE: 1" = 50' STA. 345+00 TO STA. 360+00 DATE: 9/21/2011

NO.	DATE	REVISIONS

**RIGHT OF WAY
PLANS**

MAINLINE KY 172
STA. 445+00 to STA. 460+00

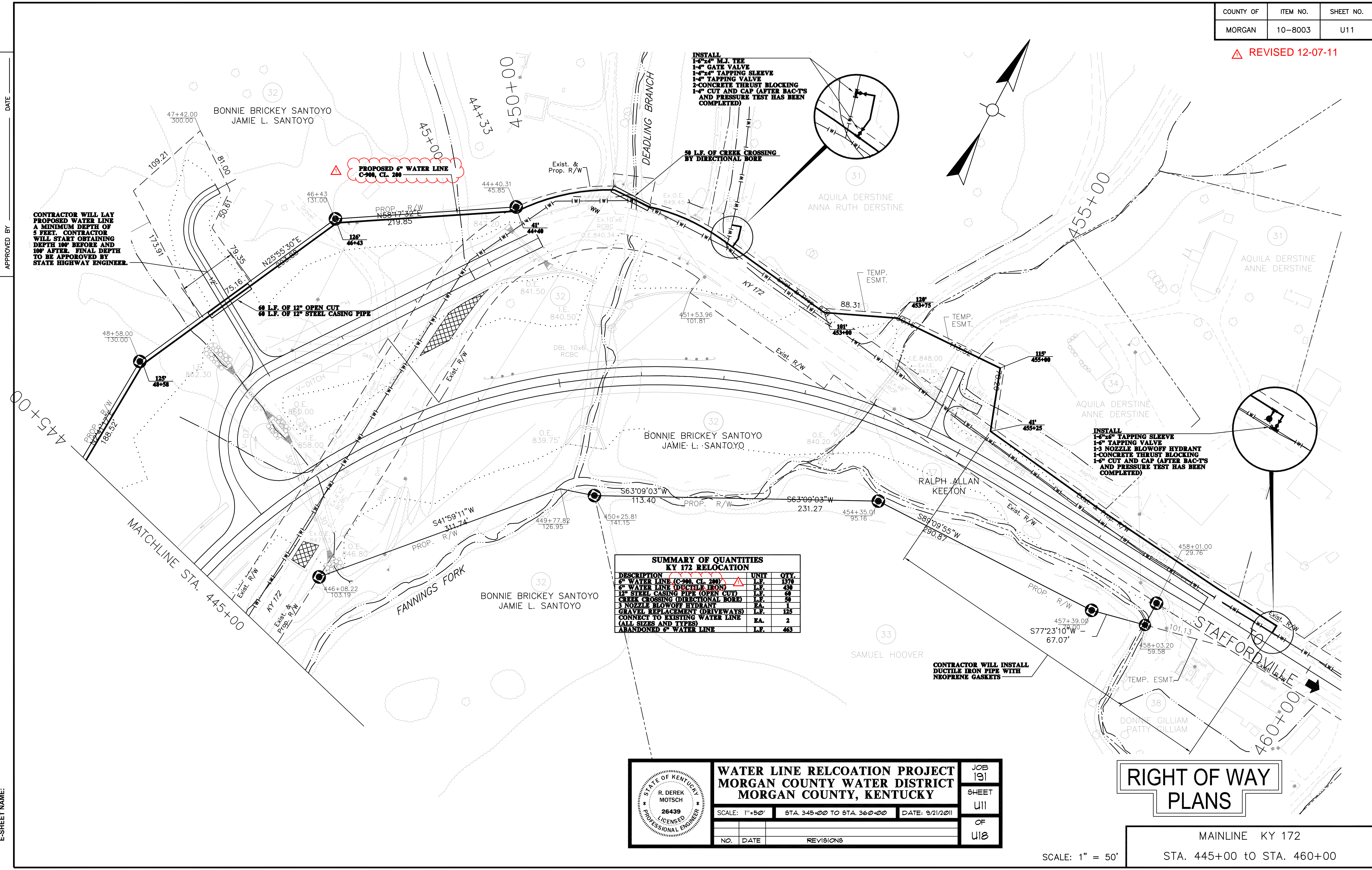
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▲ REVISED 12-07-11

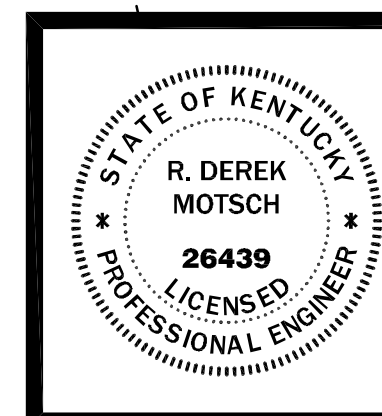
PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

CONTRACTOR WILL LAY PROPOSED WATER LINE A MINIMUM DEPTH OF 5 FEET. CONTRACTOR WILL START OBTAINING DEPTH 10' BEFORE AND 10' AFTER. FINAL DEPTH TO BE APPROVED BY STATE HIGHWAY ENGINEER.



**SUMMARY OF QUANTITIES
KY 172 RELOCATION**

DESCRIPTION	UNIT	QTY.
6" WATER LINE (C-900, CL. 200) ▲	L.F.	174
6" WATER LINE (DUCTILE IRON)	L.F.	430
12" STEEL CASING PIPE (OPEN CUT)	L.F.	60
CREEK CROSSING (DIRECTIONAL BORE)	L.F.	50
3 NOZZLE BLOWOFF HYDRANT	E.A.	1
GRAVEL REPLACEMENT (DRIVEWAYS)	L.F.	125
CONNECT TO EXISTING WATER LINE (ALL SIZES AND TYPES)	E.A.	2
ABANDONED 6" WATER LINE	L.F.	463



**WATER LINE RELOCATION PROJECT
MORGAN COUNTY WATER DISTRICT
MORGAN COUNTY, KENTUCKY**

JOB 191
SHEET U11
OF U18

SCALE: 1" = 50' STA. 345+00 TO STA. 360+00 DATE: 9/21/2011

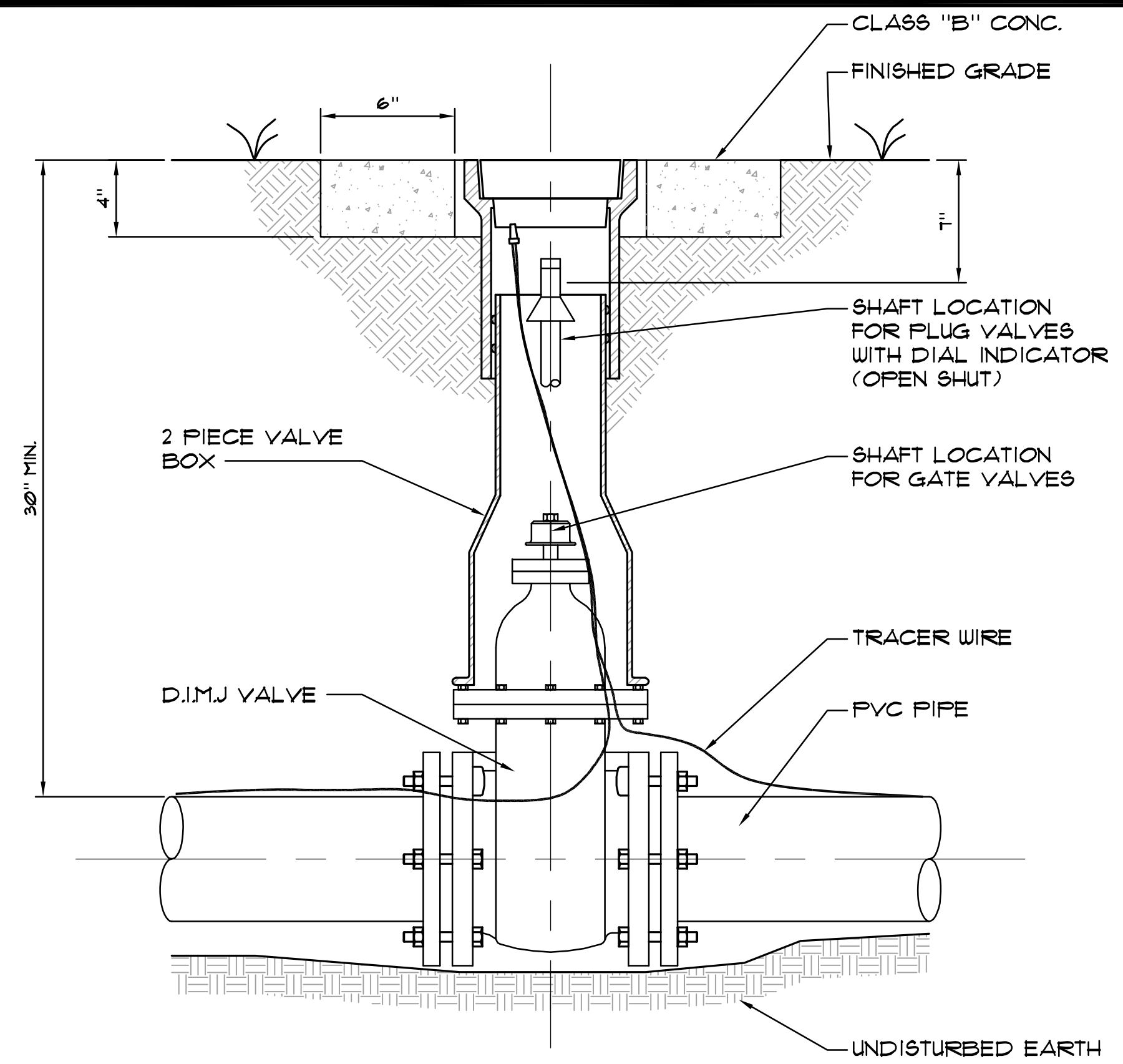
NO.	DATE	REVISIONS

**RIGHT OF WAY
PLANS**

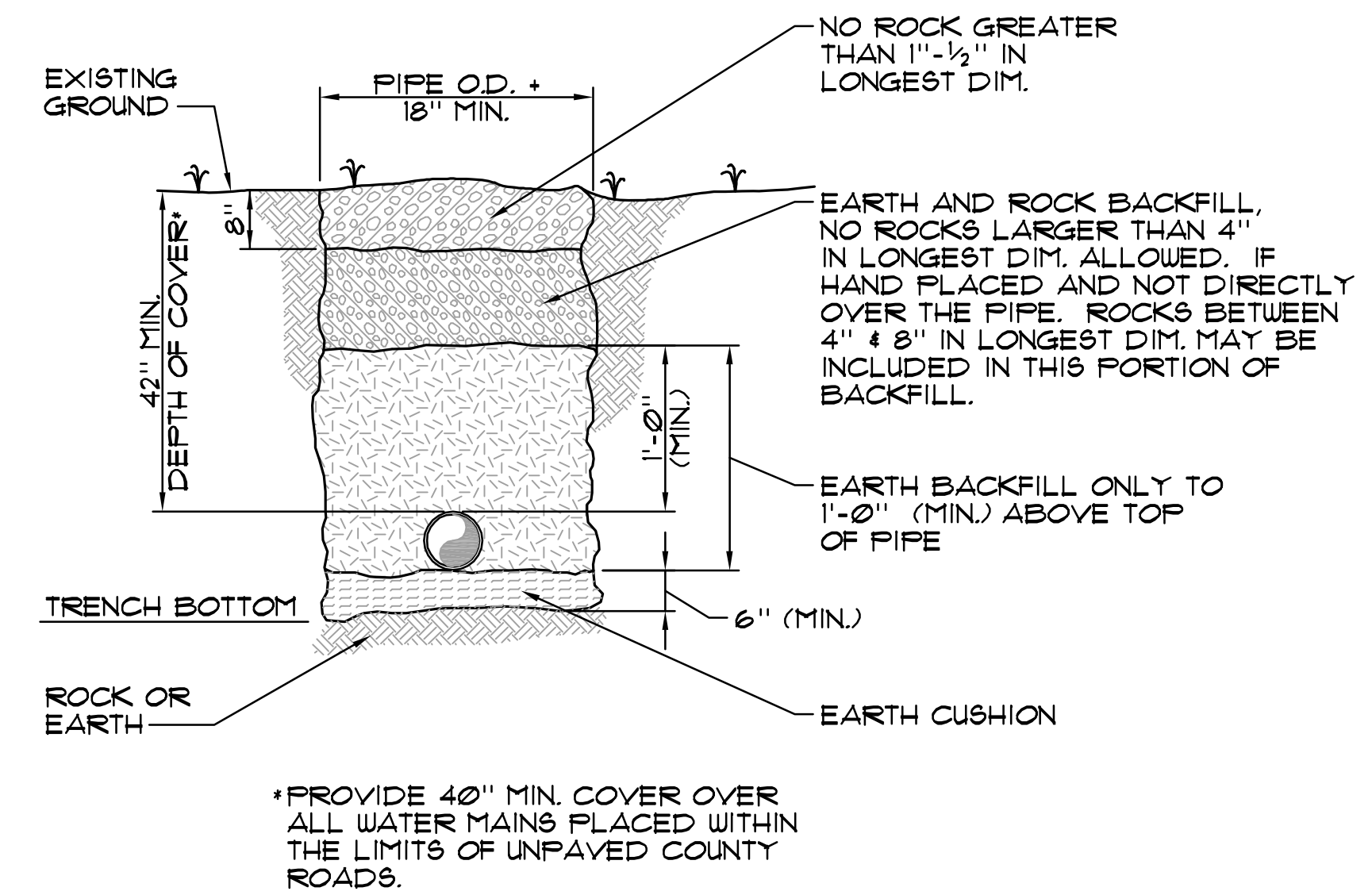
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STA. 445+00 to STA. 460+00

SCALE: 1" = 50'

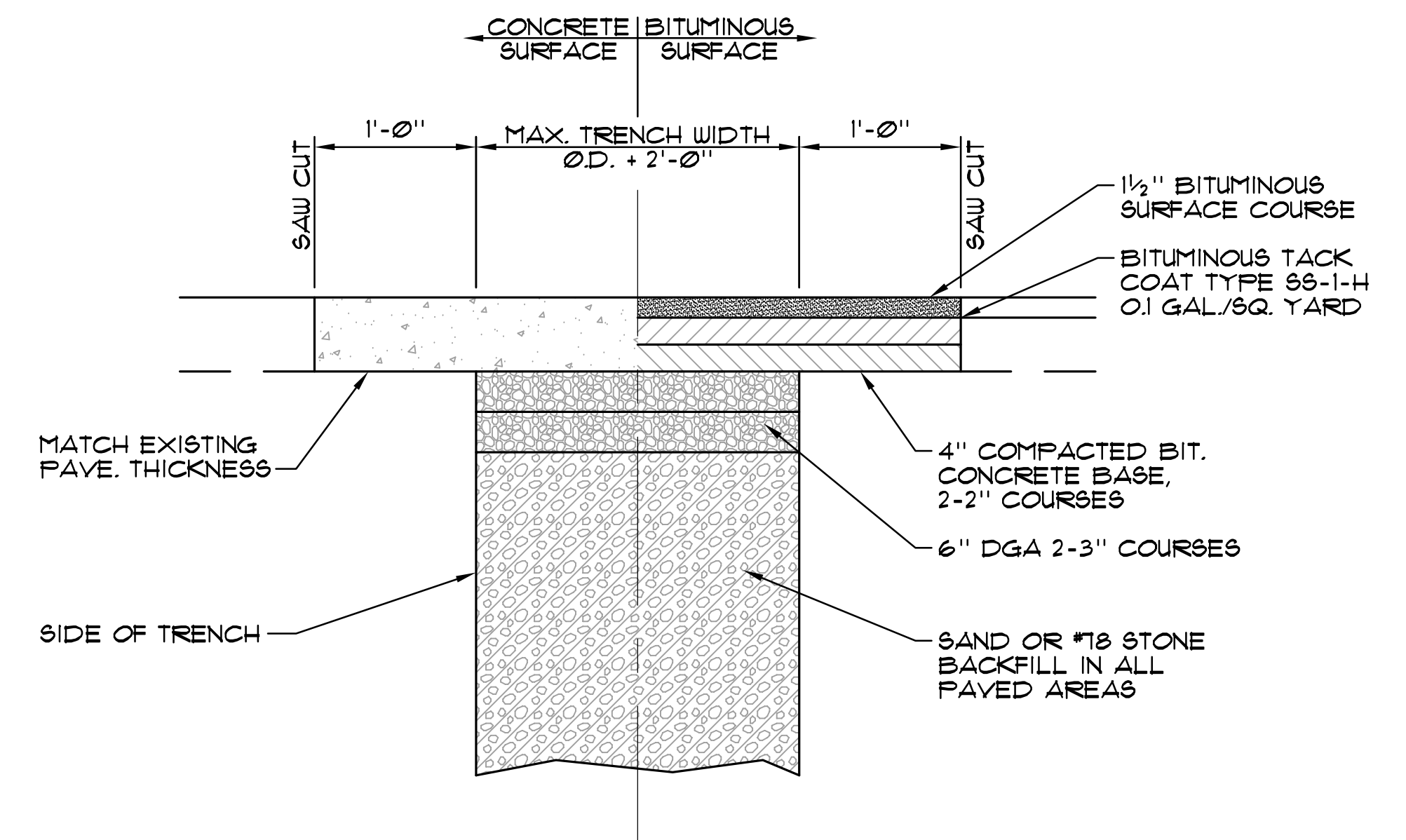
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 E-SHEET NAME:



NOTES:
 1. NO EXTRA PAY ALLOWED FOR CONCRETE COLLAR
 2. CONCRETE PAD SHALL BE SQUARE
 3. CONCRETE PAD REQUIRED ON ALL VALVES

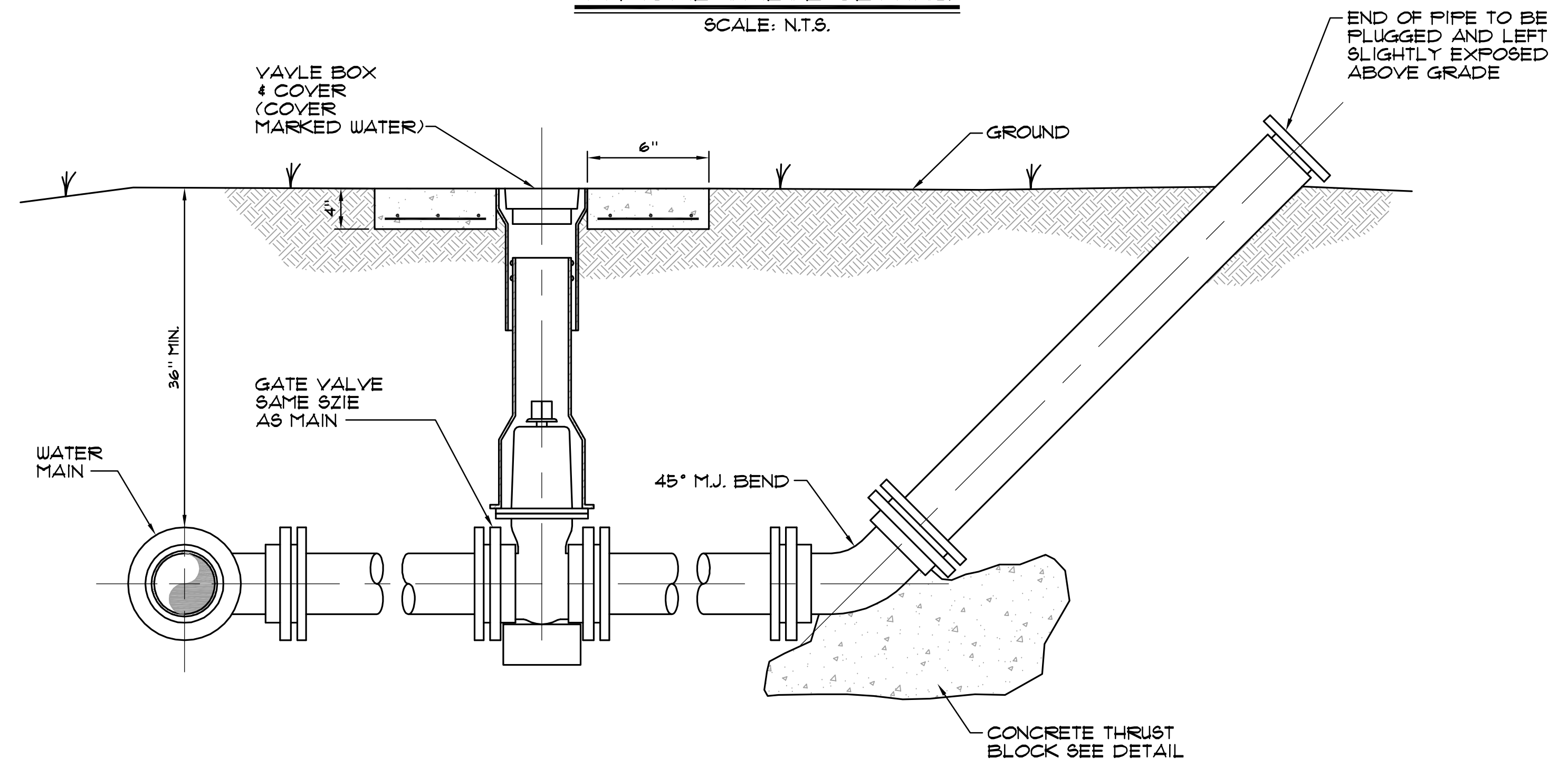


BEDDING/BACKFILL
 SCALE: N.T.S.

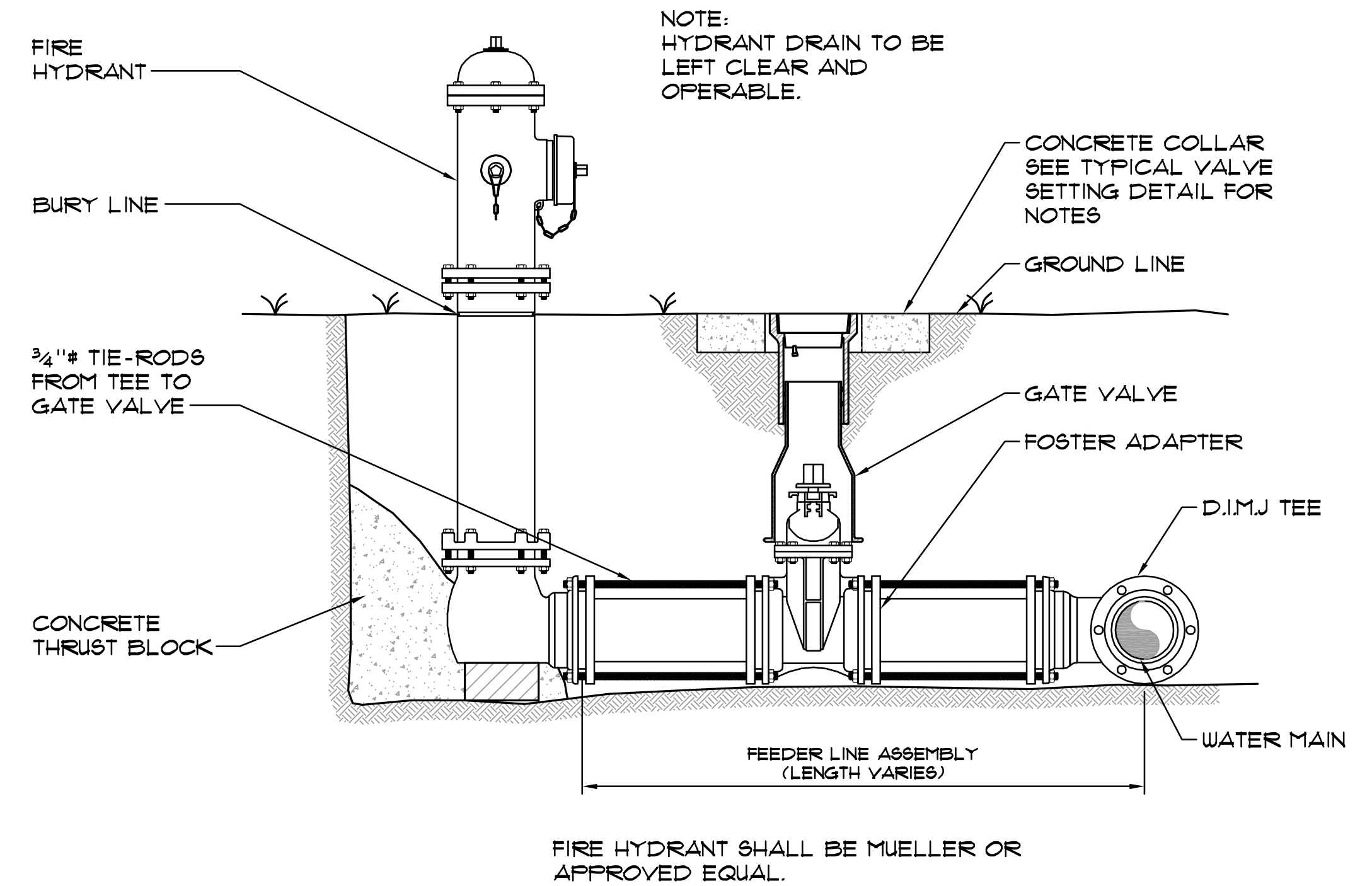


PAVEMENT REPLACEMENT
 SCALE: N.T.S.

TYPICAL VALVE SETTING
 SCALE: N.T.S.



BLOWOFF ASSEMBLY
 SCALE: N.T.S.



**FIRE HYDRANT (3 NOZZLE) OR
 SINGLE NOZZLE BLOW-OFF HYDRANT (1 NOZZLE)**
 SCALE: N.T.S.

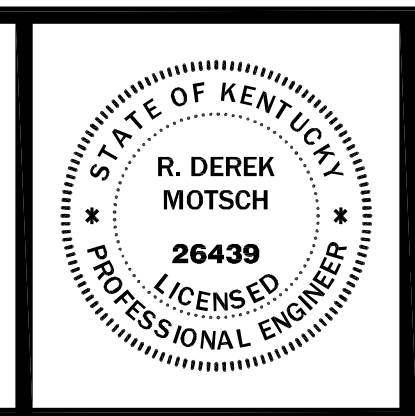
NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 191	DATE: 9/21/2011
SCALE: AS NOTED	
DESIGNED BY: RDM	
DRAWN BY: JH	
CHECKED BY: JMR	
RECORD DRAWINGS	

CT **CANN-TECH, LLC**
 Engineers · Planners · Managers

1100 Glensboro Road
 Lawrenceburg, KY 40342

Phone (502) 859-0907
 Fax (502) 859-0668

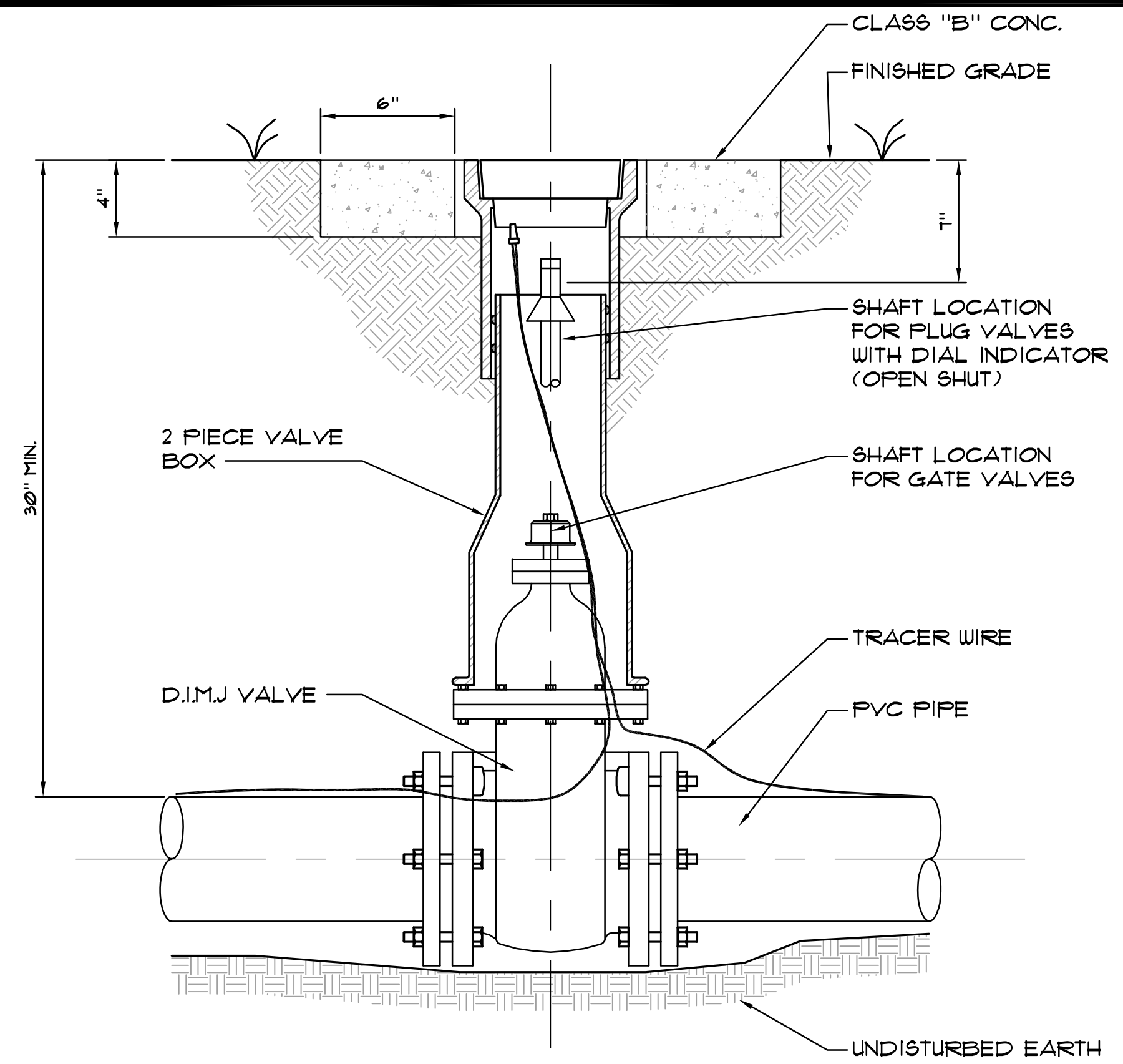


**WATER LINE RELOCATION PROJECT
 MORGAN COUNTY WATER DISTRICT
 MORGAN COUNTY, KENTUCKY**

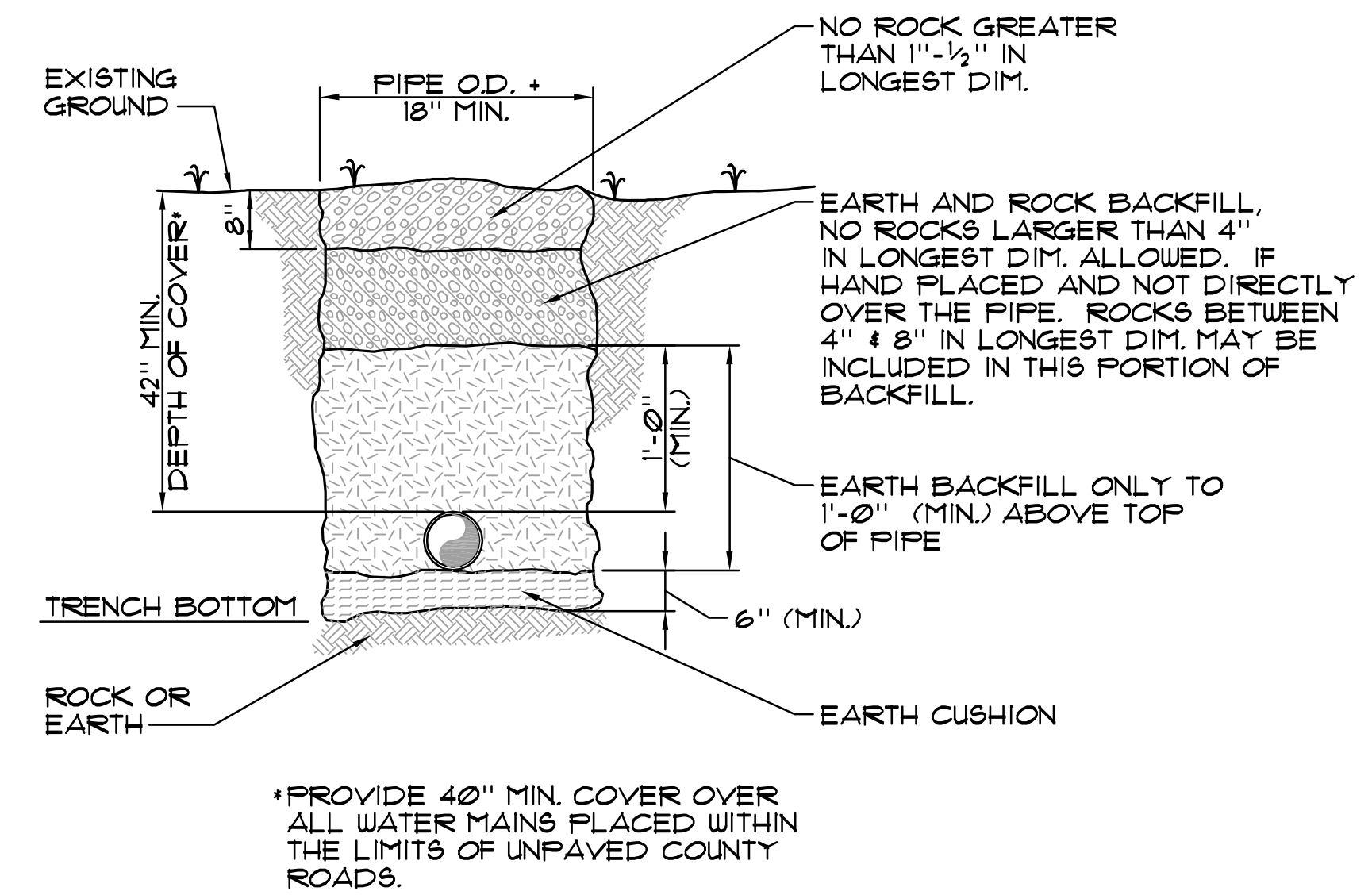
STANDARD DETAILS

SHEET U16
 OF U18

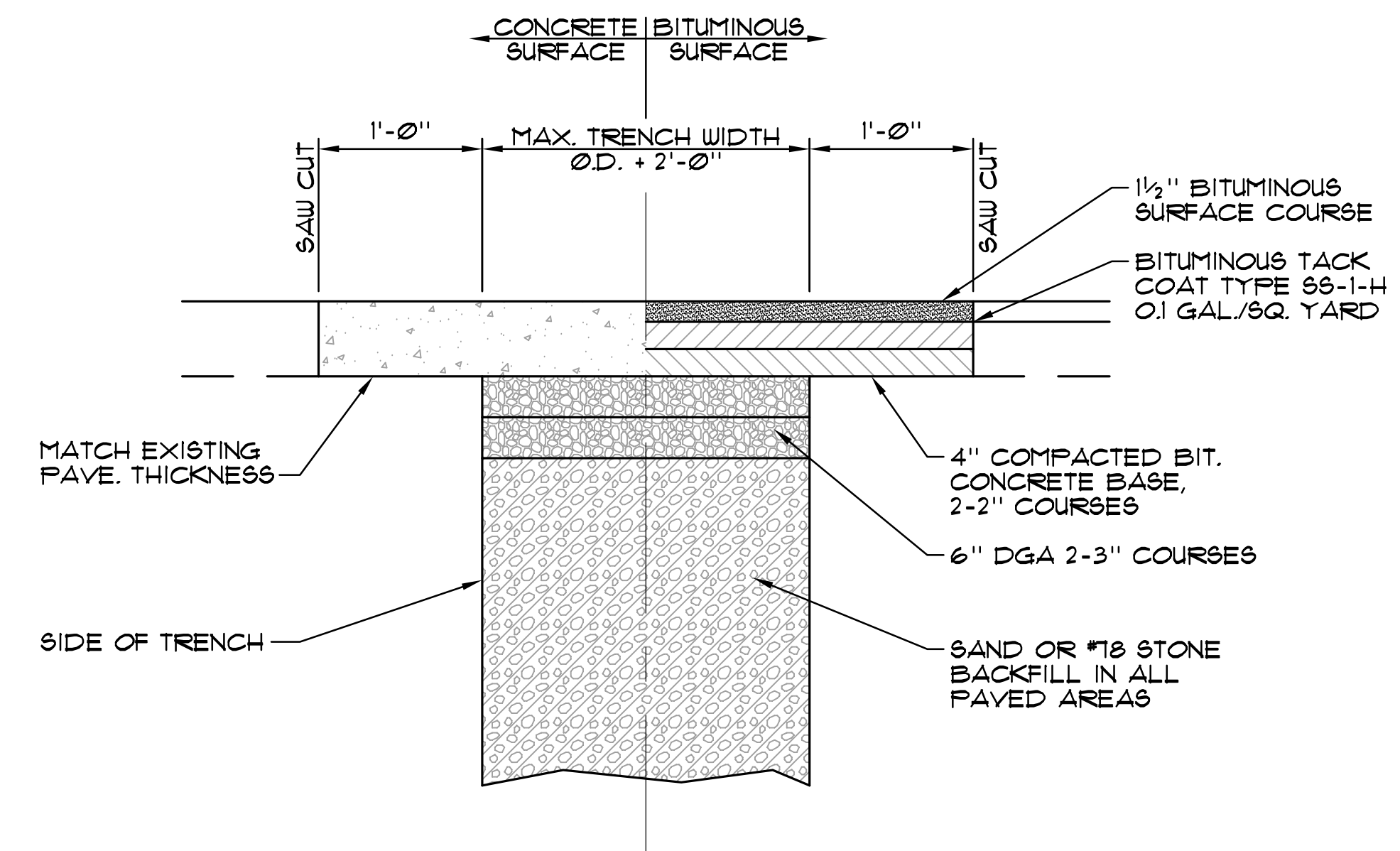
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NOTES:
 1. NO EXTRA PAY ALLOWED FOR CONCRETE COLLAR
 2. CONCRETE PAD SHALL BE SQUARE
 3. CONCRETE PAD REQUIRED ON ALL VALVES

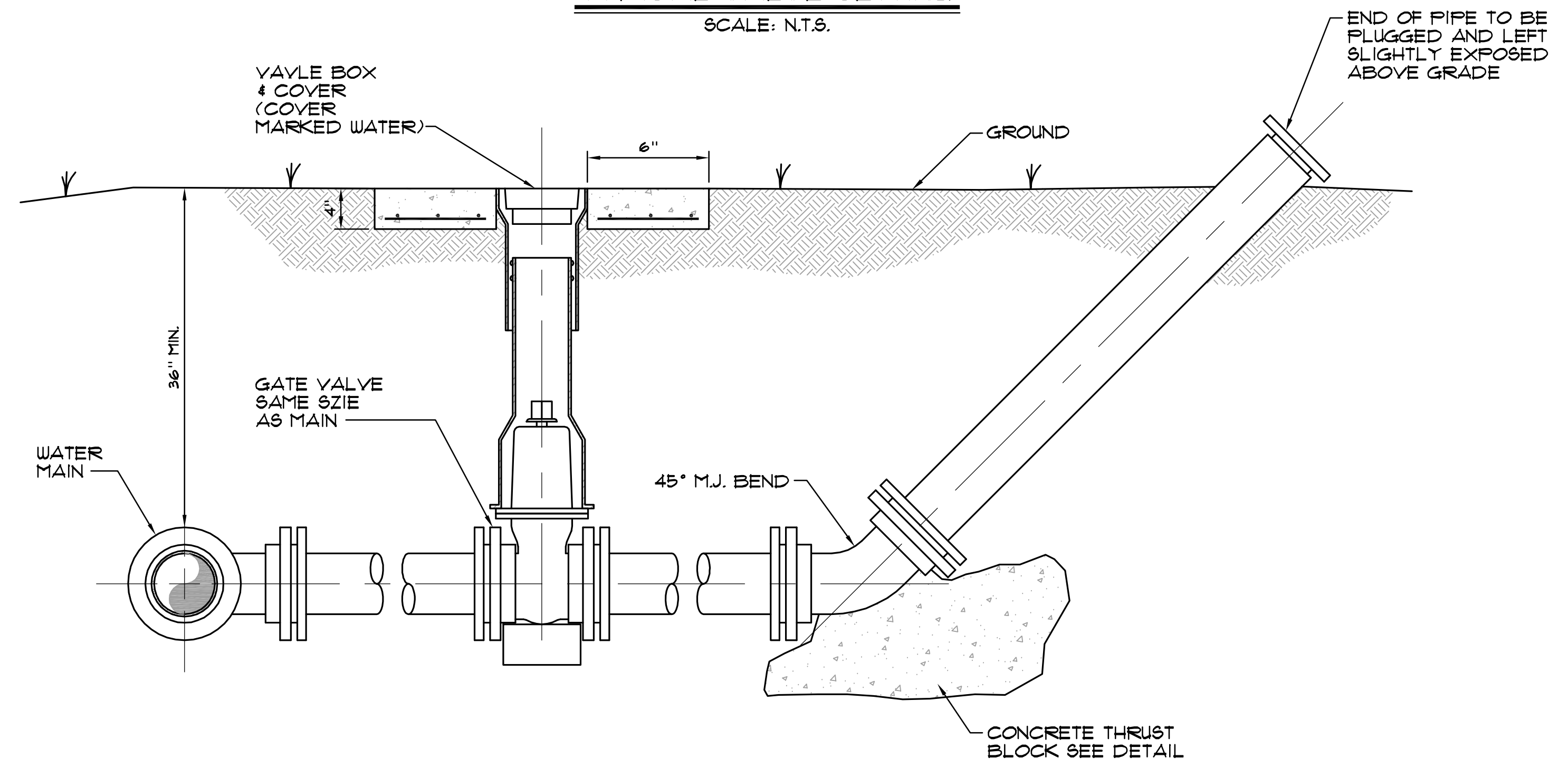


BEDDING/BACKFILL
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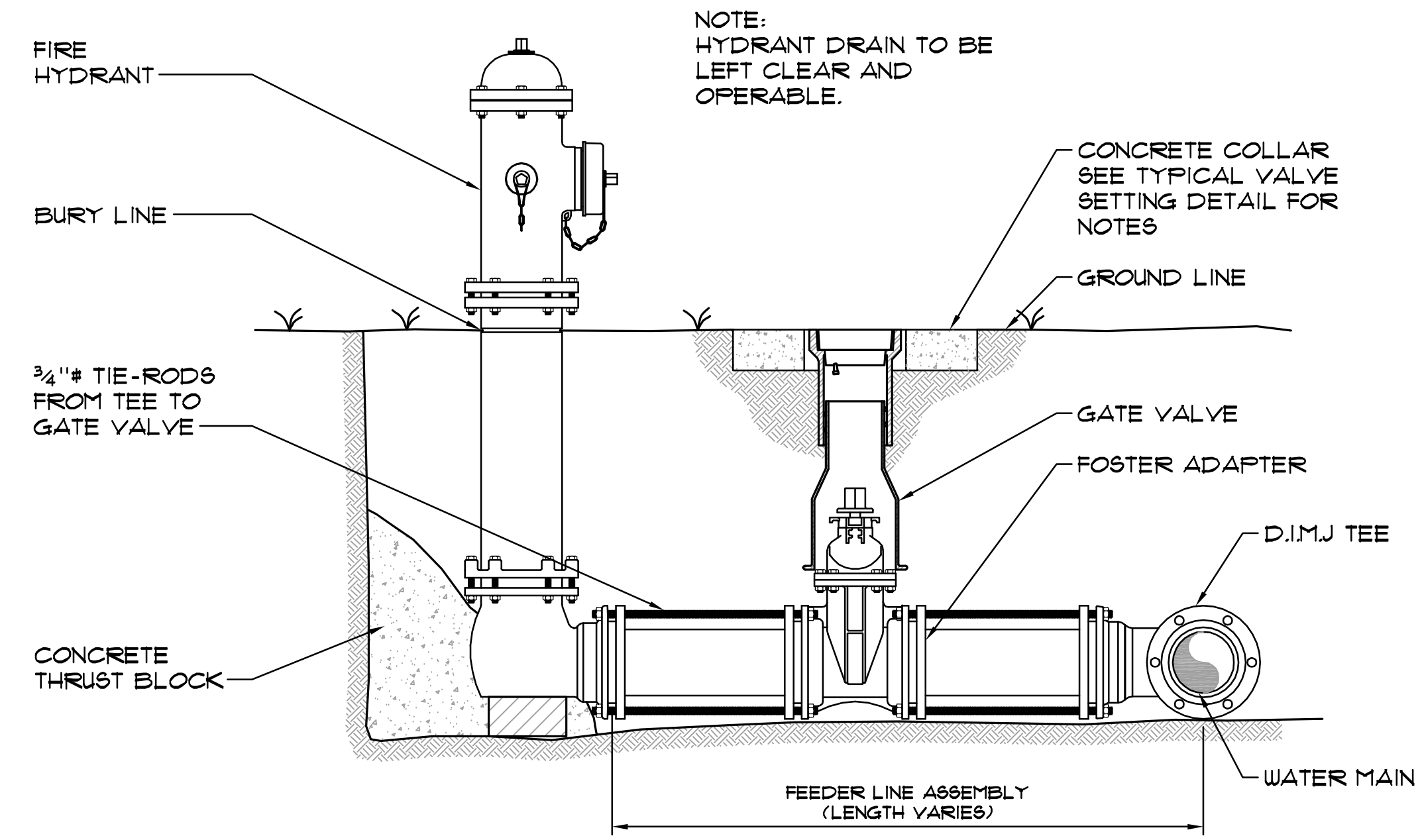


PAVEMENT REPLACEMENT
 SCALE: N.T.S.

TYPICAL VALVE SETTING
 SCALE: N.T.S.



BLOWOFF ASSEMBLY
 SCALE: N.T.S.



FIRE HYDRANT (3 NOZZLE) OR SINGLE NOZZLE BLOW-OFF HYDRANT (1 NOZZLE)
 SCALE: N.T.S.

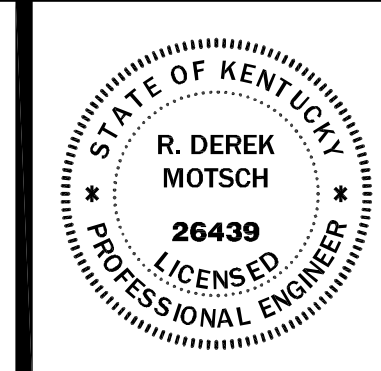
NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 191	DATE: 9/21/2011
SCALE: AS NOTED	
DESIGNED BY: RDM	
DRAWN BY: JH	
CHECKED BY: JMR	
RECORD DRAWINGS	

CT CANN-TECH, LLC
 Engineers · Planners · Managers

1100 Glensboro Road
 Lawrenceburg, KY 40342

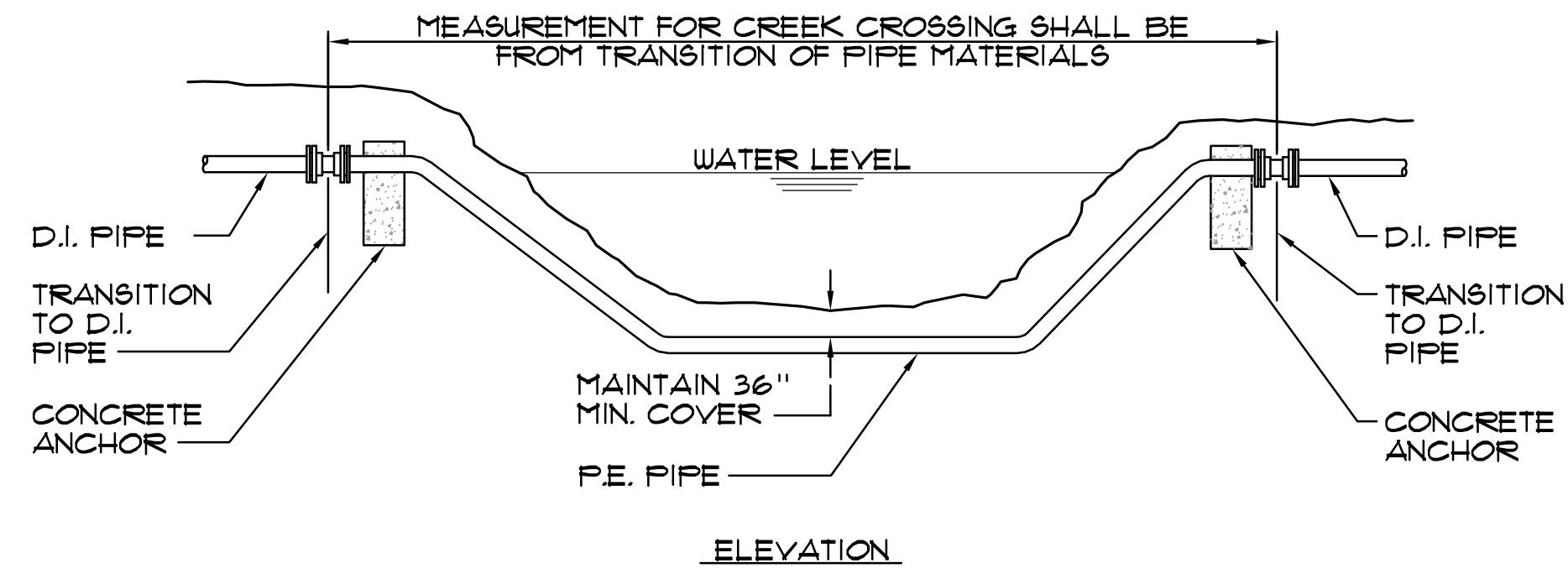
Phone (502) 859-0907
 Fax (502) 859-0668



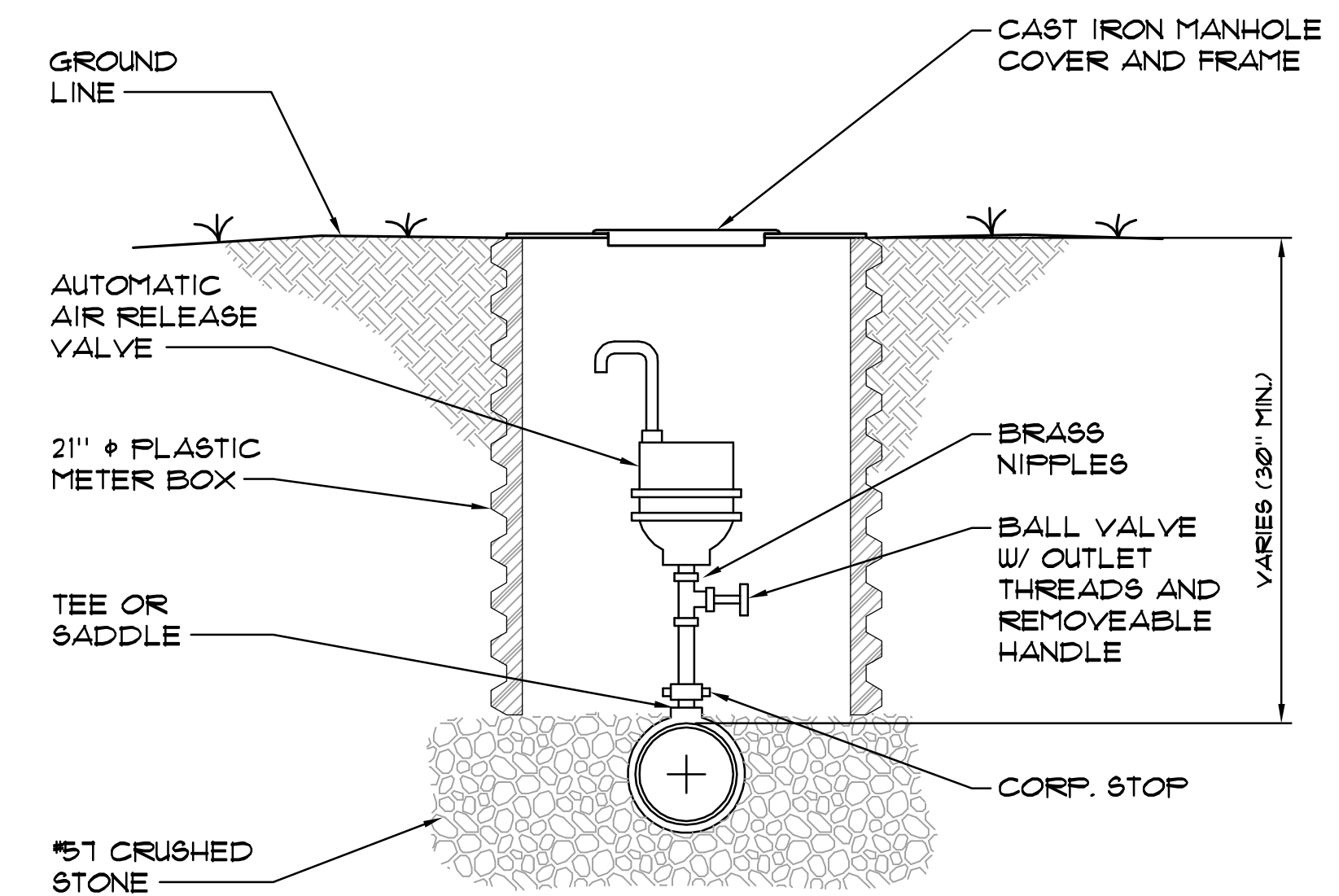
WATER LINE RELOCATION PROJECT
MORGAN COUNTY WATER DISTRICT
MORGAN COUNTY, KENTUCKY

STANDARD DETAILS

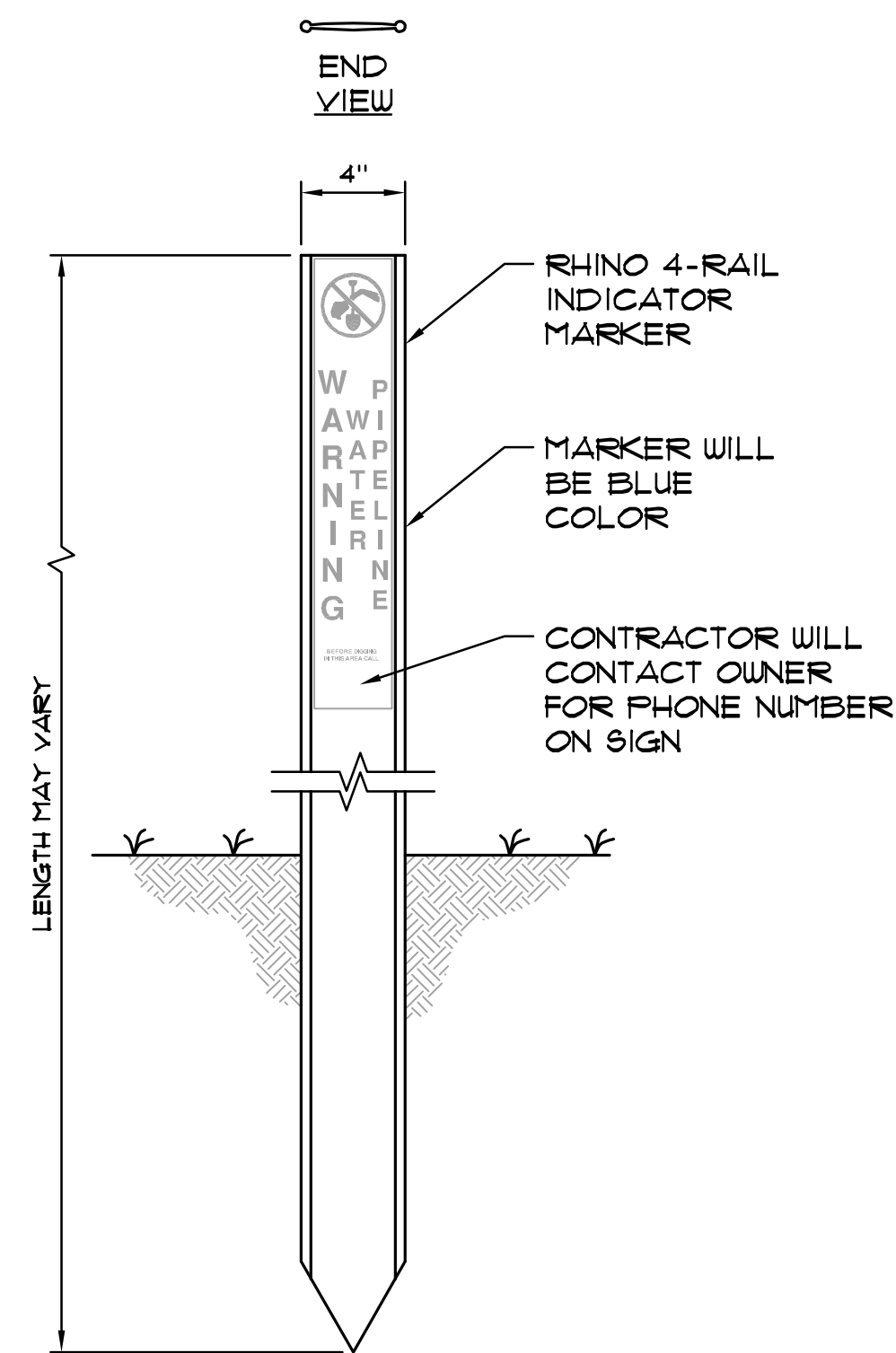
SHEET U16
 OF U18



DIRECTIONAL BORE CREEK CROSSING
SCALE: N.T.S.

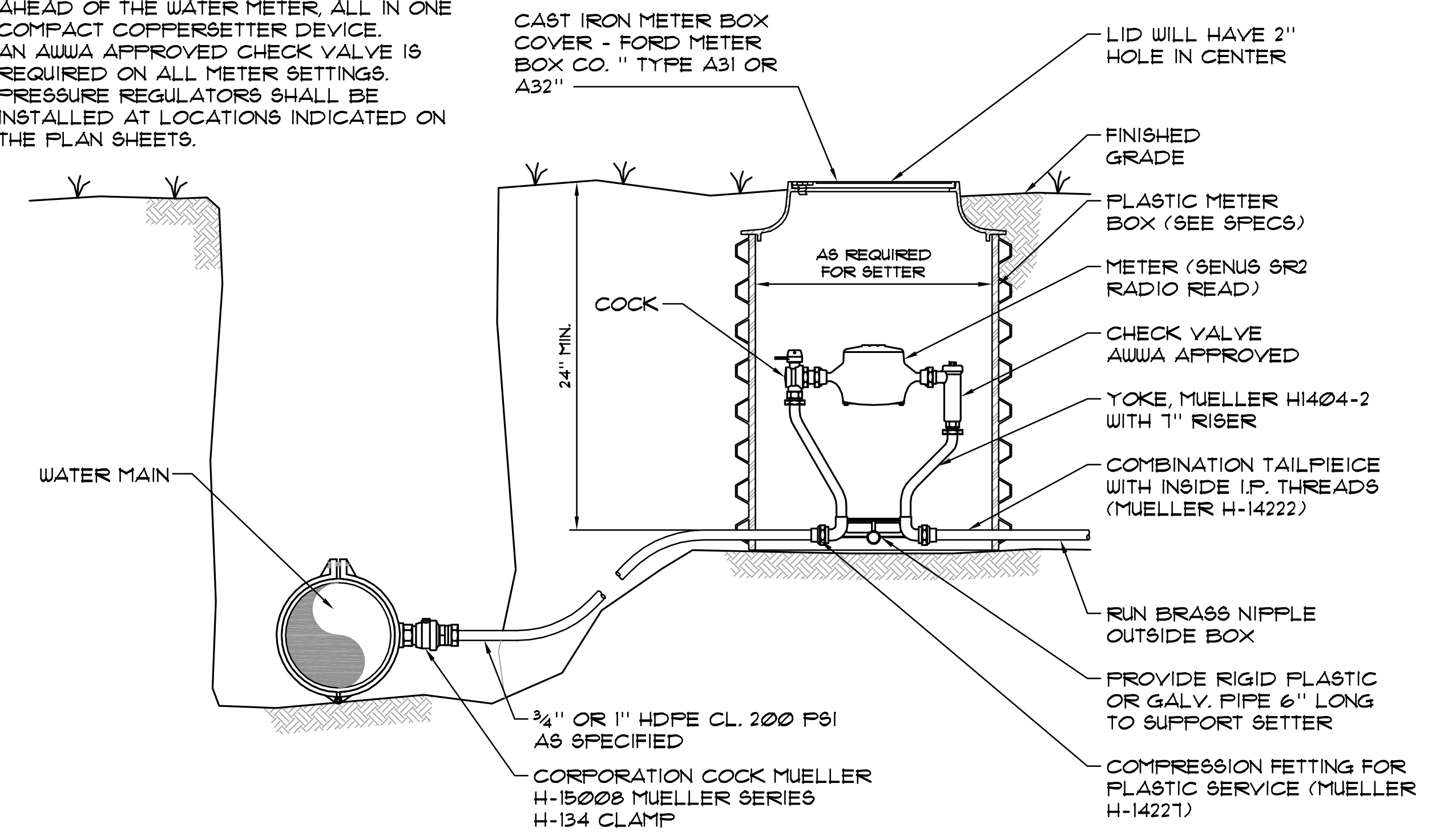


AUTOMATIC AIR RELEASE VALVE
SCALE: N.T.S.



WATER LINE MARKER
SCALE: N.T.S.


- NOTES:
- WHERE PRESSURE REGULATORS ARE TO BE INSTALLED AS SHOWN ON THE PLANS, THE CONTRACTOR SHALL USE A TANDEM COPPERSETTER. THE CONTRACTOR SHALL HOLD A PRESSURE REGULATOR JUST AHEAD OF THE WATER METER, ALL IN ONE COMPACT COPPERSETTER DEVICE.
 - AN AWWA APPROVED CHECK VALVE IS REQUIRED ON ALL METER SETTINGS.
 - PRESSURE REGULATORS SHALL BE INSTALLED AT LOCATIONS INDICATED ON THE PLAN SHEETS.

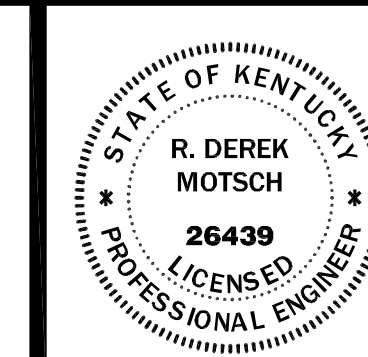


TYPICAL METER SETTING
5/8\"/>

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

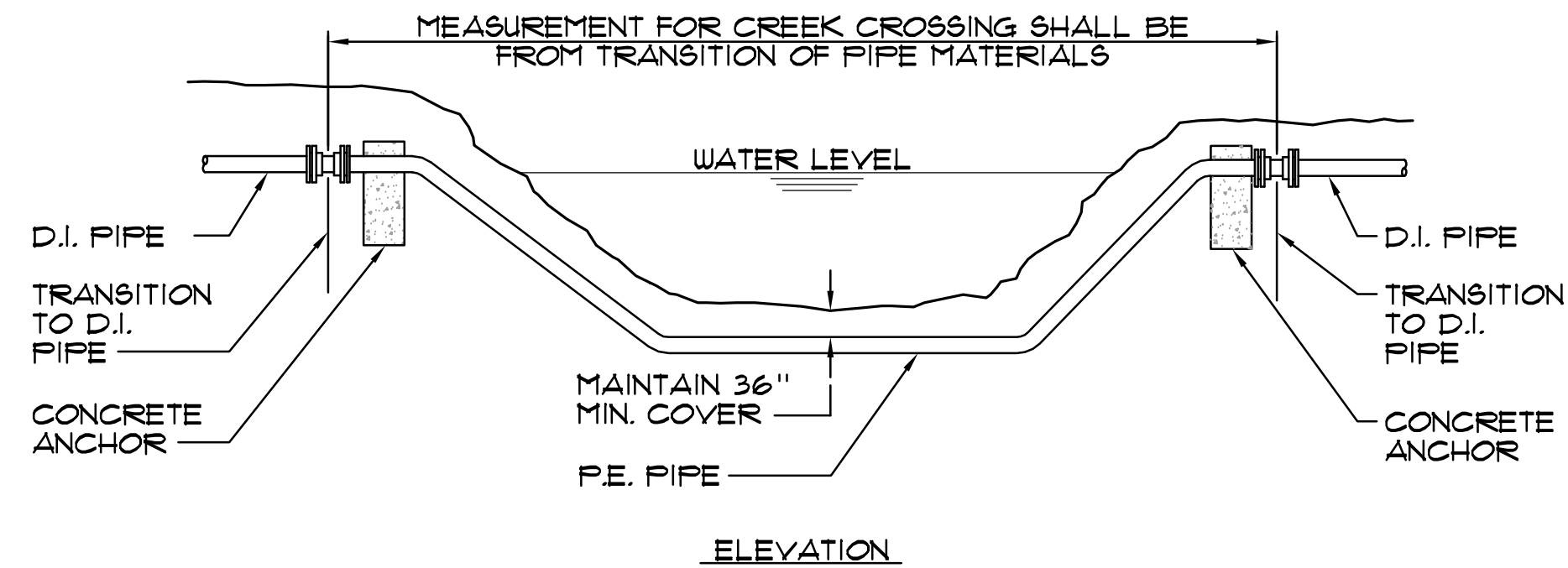
PROJECT: 191	DATE: 9/21/2011
SCALE: AS NOTED	
DESIGNED BY: RDM	
DRAWN BY: JH	
CHECKED BY: JMR	
RECORD DRAWINGS	


CANN-TECH, LLC
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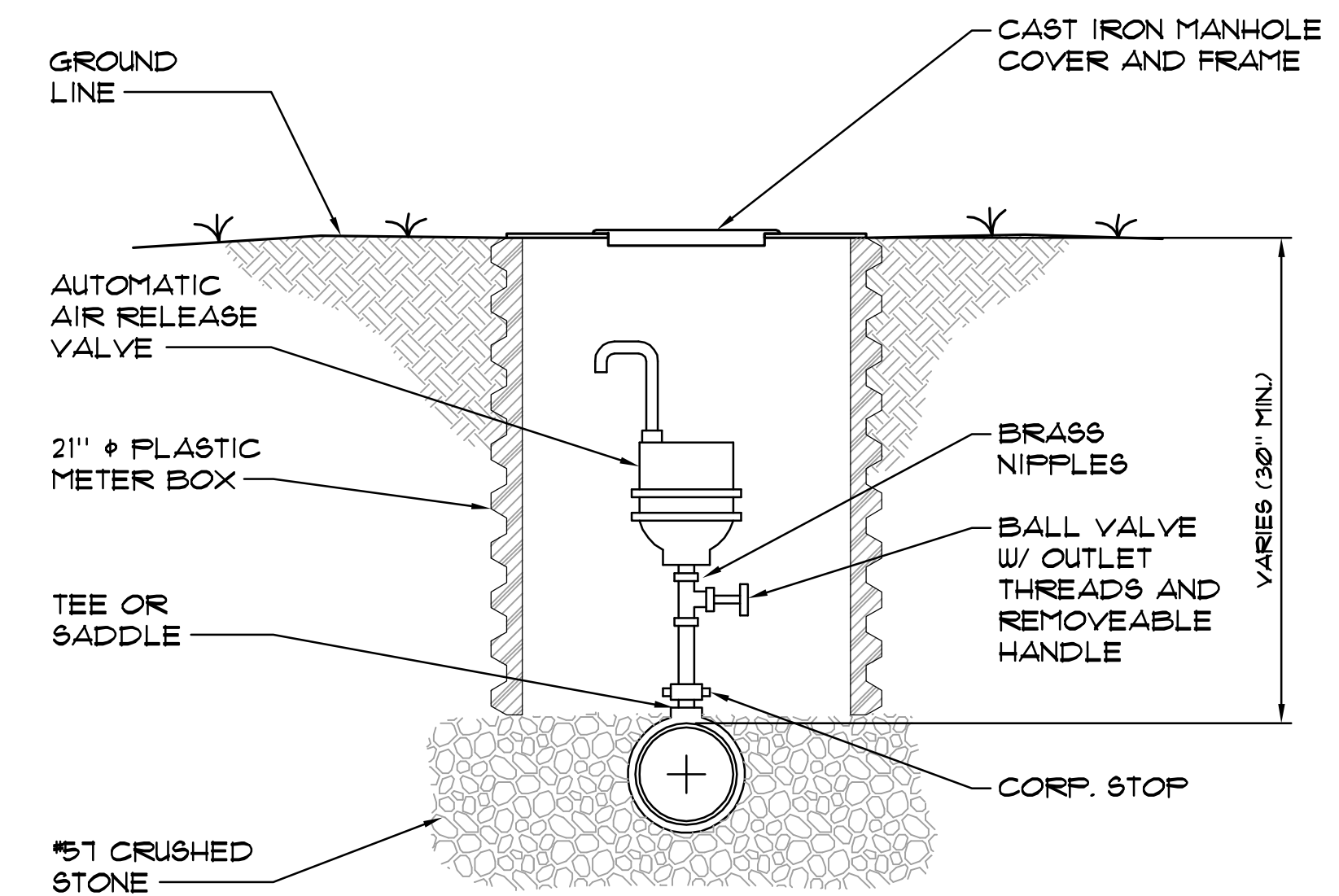


WATER LINE RELOCATION PROJECT
MORGAN COUNTY WATER DISTRICT
MORGAN COUNTY, KENTUCKY
 STANDARD DETAILS

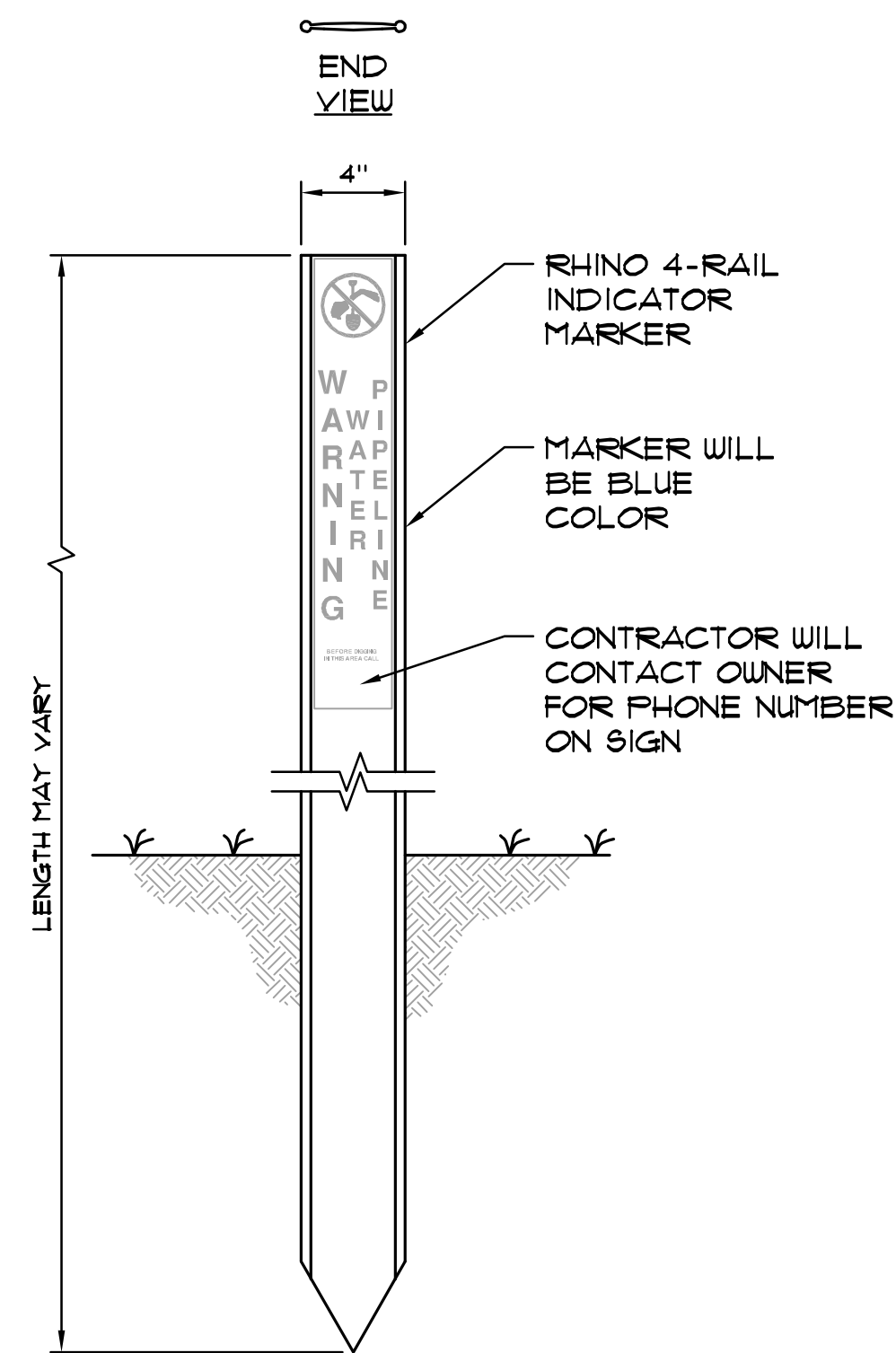
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DIRECTIONAL BORE CREEK CROSSING
SCALE: N.T.S.

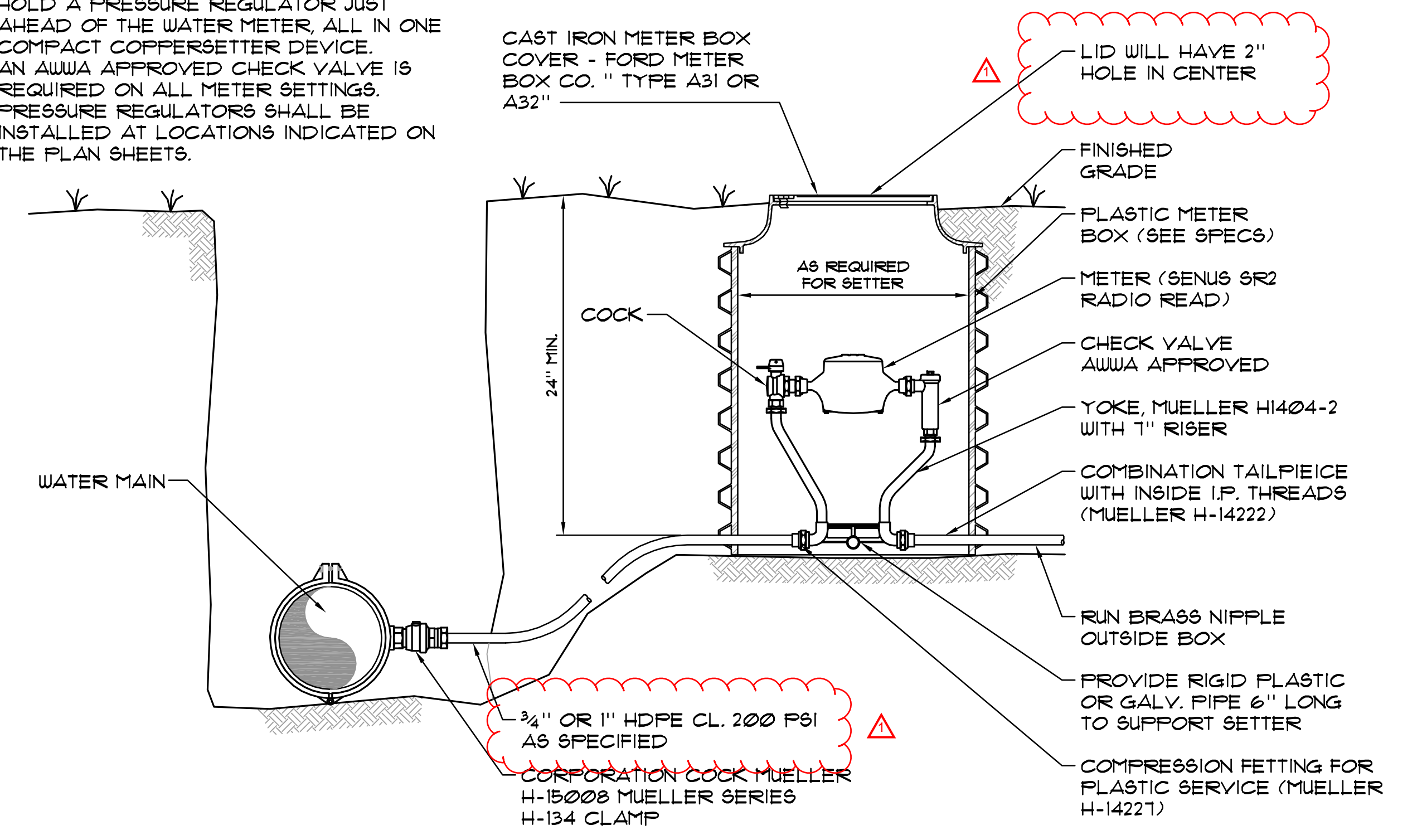


AUTOMATIC AIR RELEASE VALVE
SCALE: N.T.S.



WATER LINE MARKER
SCALE: N.T.S.

- NOTES:
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TYPICAL METER SETTING
5/8\"/>

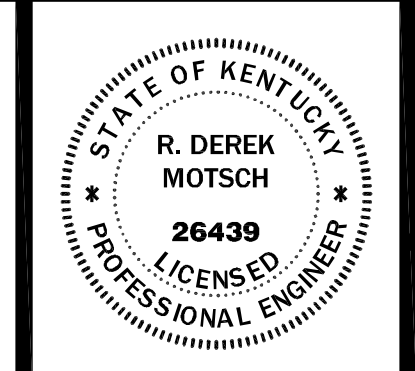
NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 191	DATE: 9/21/2011
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WATER LINE RELOCATION PROJECT
MORGAN COUNTY WATER DISTRICT
MORGAN COUNTY, KENTUCKY

STANDARD DETAILS

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