

# PHASE 11 WATER SYSTEM IMPROVEMENTS

## CONTRACT 3 - TANK REHABILITATION

FOR

# RATTLESNAKE RIDGE

# WATER DISTRICT

## CARTER COUNTY, KENTUCKY

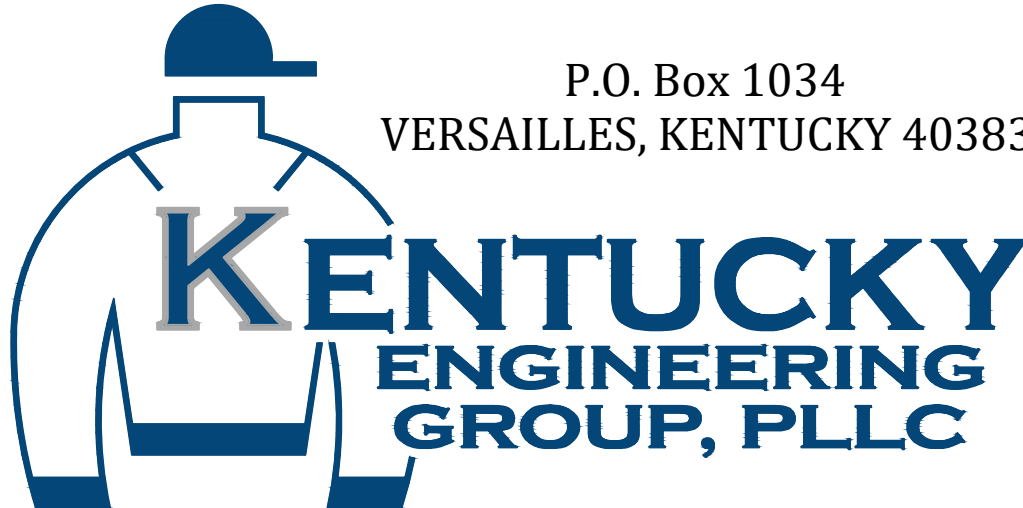
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NOVEMBER, 2017



**RECORD DRAWINGS**

TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF THIS SET OF RECORD DRAWING SHOWS THE REPORTED LOCATION OF THE WORK AND SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS. THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES WHICH WILL BE ASSUMED RELIABLE. THE DESIGN PROFESSIONAL CANNOT AND DOES NOT WARRANT THEIR ACCURACY.

BY: BLUEGRASS ENGINEERING, PLLC      DATE: 01/20

RECORD DRAWINGS

PROJECT NO. 15036

	NO.	DATE	REVISIONS	BY
		JANUARY 2020	REVISIONS PER FIELD NOTES, RECORD DRAWING REVISIONS	BKL

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**GENERAL NOTES**

- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND THE ENGINEER TWO WORKING DAYS (MINIMUM) BEFORE BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH CITY, COUNTY AND STATE REQUIREMENTS.
- THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION.
- EXISTING UTILITIES, ESPECIALLY GAS LINES AND OIL LINES, MAY BE CATHODICALLY PROTECTED. THEREFORE, DUCTILE IRON PIPE, FITTINGS, GATE VALVES, AND/OR BOXES LAID WITHIN 100' OF LINES WITH CATHODIC PROTECTION SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT. MATERIALS AND INSTALLATION SHALL MEET THE REQUIREMENTS OF AWWA'S LATEST REVISION.
- ALL CONSTRUCTION AND INSTALLATION OF MATERIALS BEING USED SHALL BE IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. SUBSTITUTIONS AND DEVIATION SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
- SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- EXISTING UTILITIES HAVE BEEN SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH A REPRESENTATIVE WHEN WORKING NEAR EXISTING UTILITIES.
- THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND ALL OTHER UTILITIES AND OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR REPAIRS OF UTILITIES AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION.
- UNLESS OTHERWISE NOTED, A SEPARATE BID ITEM HAS NOT BEEN ESTABLISHED FOR FITTINGS. THE FITTINGS INCLUDED BUT NOT LIMITED TO ARE: TEES, BENDS, PLUGS, REDUCERS, CROSSES, COUPLINGS, ETC. CONTRACTORS SHALL INCLUDE THE COST OF THESE ITEMS IN THE BID PRICE FOR THE PIPE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY REMOVAL/RELOCATION OF TRAILERS, BUILDINGS, FENCES, TREES, SHRUBS, ETC. AND REPLACEMENT OF SAID ITEMS AFTER CONSTRUCTION ACTIVITIES.
- CONTRACTOR IS TO COORDINATE WITH THE PROPERTY OWNERS AS TO WHETHER OR NOT TEMPORARY FENCING IS REQUIRED AND CONSTRUCT IF NECESSARY.
- ALL PIPING SHALL HAVE 36" MINIMUM COVER.
- WHERE UNSTABLE MATERIAL IS ENCOUNTERED OR WHERE THE DEPTH OF EXCAVATION IN EARTH EXCEEDS FIVE (5) FEET, THE SIDES OF THE TRENCH OR EXCAVATION SHALL BE SUPPORTED BY SUBSTANTIAL SHEETING, BRACING, SHORING OR THE TRENCH SIDES SLOPED. SLOPING THE SIDES OF THE DITCH WILL NOT BE PERMITTED IN STREETS, ROADS, NARROW RIGHTS-OF-WAY OR OTHER CONSTRICTED AREAS UNLESS OTHERWISE SPECIFIED. THE STANDARDS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT AND THE KENTUCKY LABOR CABINET SHALL BE FOLLOWED.
- ALL EXCAVATION IS UNCLASSIFIED. COMPENSATION FOR ALL EXCAVATION SHALL BE INCLUDED IN LUMP SUM BID.
- REGRADE OF SITE SHALL BE SUCH THAT DRAINAGE IS AWAY FROM ALL STRUCTURES.
- BACKFILL AROUND ALL STRUCTURES SHALL BE SUFFICIENTLY COMPACTED TO PRECLUDE SETTLEMENT AND PONDING OF WATER AROUND STRUCTURES AND GRADED TO DIVERT RUNOFF AWAY FROM THE STRUCTURES.
- DIMENSIONS, DETAILS AND REINFORCEMENT MAY VARY WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL OBTAIN AND MAINTAIN ON SITE, APPROVED SHOP DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- ALL VALVES & HYDRANTS SHALL BE LOCATED AT THE BACKSIDE OF THE DITCHLINE.
- FINAL LOCATION OF SERVICES, VALVES, & HYDRANT ORIENTATION ARE TO BE FIELD LOCATED DURING CONSTRUCTION & APPROVED BY THE ENGINEER.
- AT THE CONTRACTORS OPTION, CLASS 350 DUCTILE IRON PIPE MAY BE SUBSTITUTED FOR ANY PIPE PARTICULARLY SPECIFIED, BUT AT NO ADDITIONAL COST TO THE OWNER.
- NO PAY ITEM FOR EXTRA TRENCH DEPTH HAS BEEN SET UP. CONTRACTOR SHALL INCLUDE THE COST OF THE ADDITIONAL DEPTH IN HIS BID PRICE.
- ROCK SOUNDINGS WERE NOT PERFORMED BY THE ENGINEER, THE CONTRACTOR SHALL TAKE APPROPRIATE ACTION TO DETERMINE SUBSURFACE CONDITIONS.
- CONTRACTOR TO DIG/EXPOSE EXISTING WATER MAIN FAR ENOUGH AHEAD OF NEW WATER MAIN CONSTRUCTION TO AVOID DAMAGE TO EXISTING WATER MAIN AND/OR INTERRUPTION OF EXISTING CUSTOMER SERVICES.
- ALL NEW SERVICE LINE FROM THE NEW MAIN TO THE SETTERS SHALL BE 1" PE CTS TUBING UNLESS SHOWN DIFFERENTLY ON THE PLANS
- THE MAXIMUM ALLOWABLE LENGTH OF SERVICE LINE FROM THE WATER MAIN TO THE CUSTOMER'S METER SERVICE SHALL BE AS FOLLOWS:

SERVICE LINE DIAMETER	MAXIMUM LENGTH
1 INCH	150 FEET
1-1/2 INCH	200 FEET
2 INCH	250 FEET

- CONNECTIONS TO EXISTING DISTRIBUTION SYSTEM SHALL BE MADE AS FOLLOWS:
  - CONNECT TO EXISTING (SIZE) W.M. (WET TAP) - CONTRACTOR SHALL PROVIDE, FURNISH AND INSTALL ALL FITTINGS, VALVES AND APPURTENANCES TO CONNECT THE PROPOSED WATER MAIN TO THE EXISTING WATER MAIN UNDER PRESSURE.
  - CONNECT TO EXISTING (SIZE) W.M. - CONTRACTOR SHALL PROVIDE, FURNISH AND INSTALL ALL FITTINGS AND APPURTENANCES TO CONNECT THE PROPOSED WATER MAIN TO THE EXISTING WATER MAIN. VALVES ARE A SEPARATE PAY ITEM.
- NO BLASTING WILL BE PERMITTED ON THIS PROJECT.
- DIAMOND RIDGE TANK CANNOT BE REMOVED FROM SERVICE UNTIL DIAMOND RIDGE PUMP STATION HAS BEEN REHABBED IN CONTRACT 4.
- ANY DEMOBILIZATION/REMOBILIZATION SHALL BE FIGURED INTO THE BID.
- ALL STEEL AND IRON ON THIS JOB SHALL COMPLY WITH AIS REQUIREMENTS.

**RECORD DRAWINGS**

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BY: **BLUEGRASS ENGINEERING, PLLC** DATE: 01/20



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**GENERAL NOTES (CONTINUED)**

- NEW LINE AND EXISTING LINES MUST REMAIN IN SERVICE UNTIL ALL METERS ASSEMBLED HAVE BEEN REPLACED AND RECONNECTED TO THE NEW LINE
- NO METERS CAN BE RECONNECTED TO THE NEW WATER MAIN UNTIL TESTING, STERILIZATION AND SAMPLING HAS BEEN SUCCESSFULLY COMPLETED
- COPIES OF ALL BACTIE RESULTS MUST BE PROVIDED TO THE ENGINEER PRIOR TO RECONNECTS OF ANY METER.
- A NO. 12 AWG INSULATED COPPER LOCATOR WIRE SHALL BE PLACED IN THE TRENCH SIX INCHES ABOVE ALL PLASTIC LINES. THE INSULATION SHALL BE BLUE FOR WATER. THE WIRE SHALL BE LOOPED INTO ALL VALVE BOXES W/ ENOUGH SLACK TO ALLOW ACCESS TO THE LOOPS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PLUMBING PERMITS NECESSARY TO RELOCATE OR RECONNECT ANY CUSTOMERS METER SERVICE OR SERVICE LINE. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES AND EMPLOY THE NECESSARY LICENSED PLUMBER.

**FINAL CLEANUP AND RESTORATION**

UNLESS SPECIFICALLY APPROVED BY THE OWNER AND ENGINEER, CLEANUP OF DISTURBED AREAS SHALL BE KEPT CURRENT WITH CONSTRUCTION AND RESTORATION EFFORTS BY THE CONTRACTOR INITIATED NO LONGER THAN SEVEN (7) DAYS AFTER THE TRENCH EXCAVATION WORK HAS STARTED. ALL EXCAVATED MATERIAL NOT REQUIRED FOR BACKFILLING OF THE TRENCH AND ANY LARGE ROCKS, STONES OR DEBRIS SHALL BE REMOVED FROM THE SITE, AND SHALL NOT BE A BURDEN TO THE PROPERTY OWNER(S) AND/OR ADJACENT PROPERTIES. THE CONTRACTOR MAY WINDROW OR TRACK-IN THE EXCAVATED MATERIAL OVER THE TRENCH PRIOR TO FINAL CLEANUP TO ALLOW FOR AND TO ASSIST IN THE INITIAL SETTLEMENT OF THE TRENCH. ALL DISTURBED AREAS MUST BE SEEDED AT LEAST WITH A TEMPORARY SEED MIX IF FOR SOME REASON THE AREA CANNOT BE PERMANENTLY SEEDED WITHIN TWO (2) WEEKS.

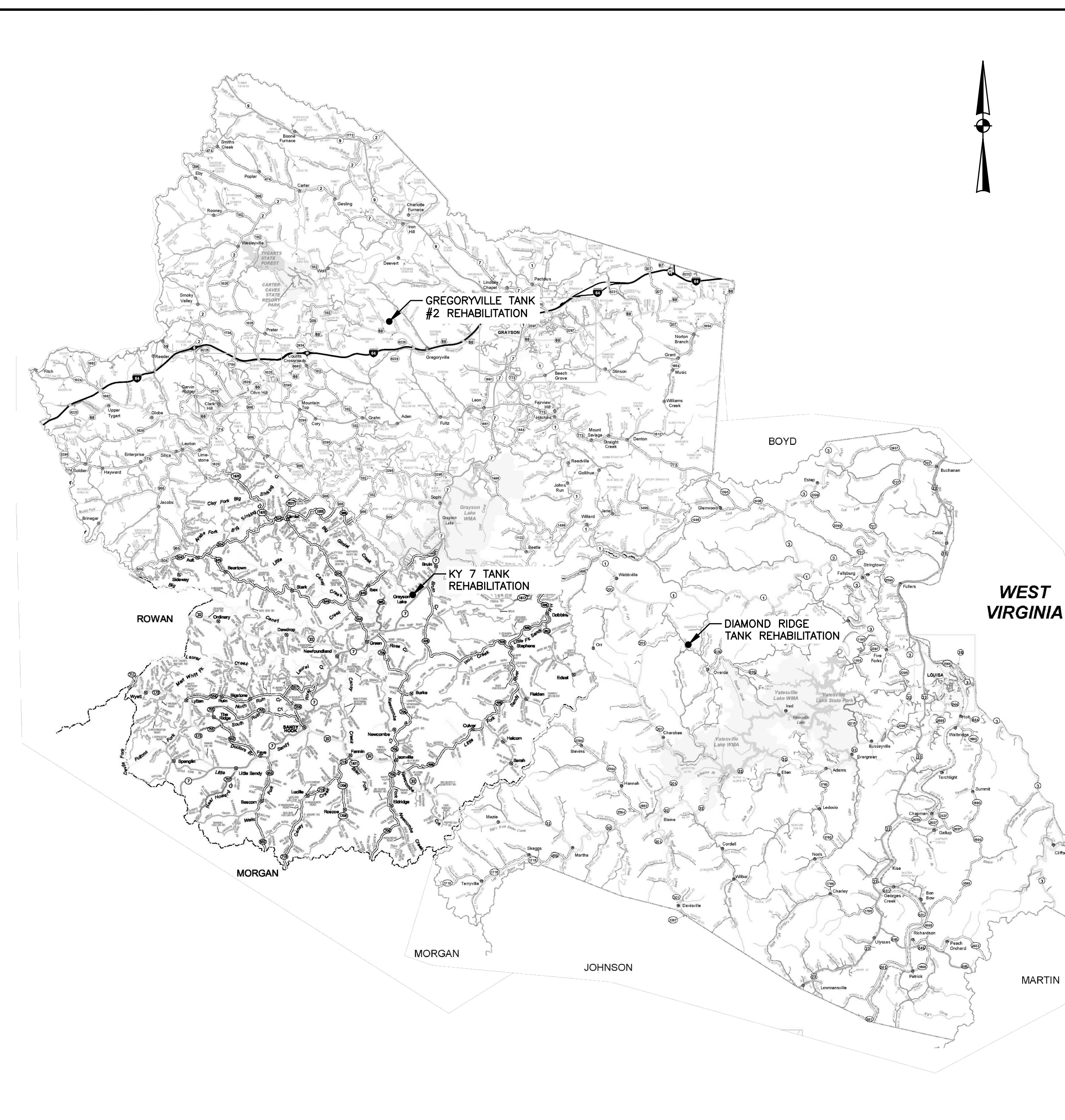
**DEPARTMENT OF HIGHWAYS - GENERAL NOTES**

- ALL EFFECTED KYTC DITCHLINES SHALL REMAIN FREE OF EXCESS SILT OR EROSION AND CONSTRUCTED TO THE NORMAL TYPICAL SECTION OF THE ROADWAY WITH A MINIMUM DEPTH OF 18 INCHES FROM THE SHOULDER BREAK POINT.
- ALL NECESSARY STEPS SHALL BE TAKEN TO PREVENT EROSION OR SILTATION OF THE PUBLIC RIGHT-OF-WAY, ADJOINING PROPERTY AND WATERWAYS.
- ALL VALVES TO BE FLUSH W/ EXISTING GRADE.
- ALL WATER LINE LOCATED WITHIN STATE HIGHWAY R.O.W. SHALL BE CONSTRUCTED OUT AND AROUND THE END OF ALL EXISTING CULVERTS AND HEADWALLS.
- UNDERGROUND UTILITIES INSTALLED INSIDE STATE RIGHT-OF-WAY SHALL BE LOCATED WITHIN 3-5 FEET FROM THE EDGE OF THE RIGHT-OF-WAY UNLESS OTHERWISE SHOWN ON THE PLANS.
- UNDERGROUND UTILITIES SHOWN MORE THAN 5 FEET FROM THE EDGE OF THE RIGHT-OF-WAY SHALL BE INSTALLED WITH A MINIMUM DEPTH OF COVER OF 42 INCHES WITH PRIOR APPROVAL ON A CASE BY CASE BASIS.
- UNDERGROUND UTILITIES CROSSING ANY ENTRANCE OR CROSSROAD PAVED WITH CONCRETE OR ASPHALT SURFACE INSIDE STATE RIGHT-OF-WAY SHALL BE INSTALLED BY BORING UNLESS WRITTEN PERMISSION TO OPEN CUT IS OBTAINED FROM THE PROPERTY OWNER AND APPROVED BY THE KYTC DISTRICT PERMITS ENGINEER.
- UNDERGROUND UTILITIES SHALL NOT BE INSTALLED IN EMBANKMENT FILLS OR BETWEEN EDGE OF PAVEMENT AND DITCHLINE UNLESS SPECIFICALLY NOTED ON PERMITTED PLANS.
- FIRE HYDRANTS OR UTILITY SERVICE BOXES SHALL BE LOCATED WITHIN 2 FEET FROM THE EDGE OF RIGHT-OF-WAY LINE, OR OFF RIGHT-OF-WAY.

**INDEX OF DRAWINGS**

SHT. NO.	DESCRIPTION:
-	COVER
01	SHEET LOCATION MAP, INDEX OF DRAWINGS, UTILITIES and LEGEND
02	REHABILITATION PLAN GREGORYVILLE TANK #2
03	REHABILITATION PLAN KY 7 TANK
04	REHABILITATION PLAN DIAMOND RIDGE TANK

**SHEET LOCATION MAP**



**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
PVC	PVC	POLYVINYL CHLORIDE
DIP	DIP	DUCTILE IRON PIPE
WM	WM	WATER MAIN
⊕	⊕	HYDRANT ASSEMBLY
⊕	⊕	FLUSHING/BLOWOFF ASSEMBLY
△	▲	AIR RELEASE VALVE (ARV)
⊗	⊗	GATE VALVE (GV)
---	---	WATER MAIN (WM)
---	---	SPECIAL CROSSING OR CASING PIPE
---	---	WATER MAIN TO BE ABANDONED
---	---	RIGHT-OF-WAY LINE
---	---	CENTERLINE
---	---	PROPERTY LINE
---	---	EASEMENT ACQUIRED

**UTILITIES**

**BUD - Before You Dig**  
1-800-752-6007  
or DIAL 811

**NOTE:**  
IN ACCORDANCE WITH KENTUCKY STATE LAW, ANY ACTIVITY THAT RESULTS IN MOVEMENT, PLACEMENT, BORING, PROBING OR DIGGING IN OR ON THE GROUND SHALL CONTACT THE ONE CALL CENTER FOR UNDERGROUND UTILITY LOCATIONS.

**WATER DISTRICT**

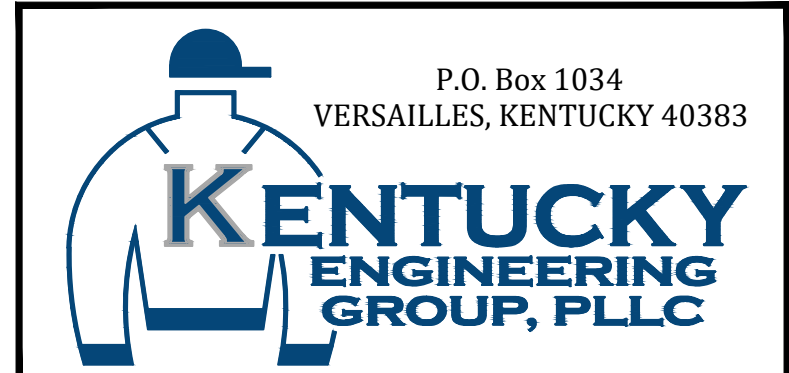
RATTLESNAKE RIDGE WATER DISTRICT  
PHONE: 606-474-7570  
FAX: 606-474-8531

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DATE:	NOVEMBER, 2017
PROJECT MGR:	LRS
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
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**PHASE 11 WATER SYSTEM IMPROVEMENTS**  
FOR THE  
RATTLESNAKE RIDGE WATER DISTRICT

**CONTRACT 3 - TANK REHABILITATION**

SHEET LOCATION MAP,  
LEGEND, UTILITIES and  
INDEX OF DRAWINGS

PROJECT NO.  
15036

SHEET NO.  
01

BID DOCUMENTS

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**AERIAL PLAN - GREGORYVILLE TANK #2**

SCALE: 1" = 100'



**GROUND VIEW - GREGORYVILLE TANK #2**

NOT TO SCALE

**TANK IMPROVEMENTS:**

INTERIOR

- SP 10 COMMERCIAL BLAST
- CAULK ALL SEAMS ABOVE WATER LEVEL
- PAINT - 3 COAT EPOXY PER SPECIFICATIONS

EXTERIOR

- REGRADE ACCESS ROAD, INSTALL 3" DGA
- POWER WASH (MIN. 3500 PSI)
- TOUCH UP ANCHOR BOLTS W. SPOT PRIME EPOXY & 1 COAT EPOXY
- TOUCH UP TOP RAILING W. SPOT PRIME EPOXY & 1 COAT EPOXY
- REPLACE MANWAY GASKET & MANWAY BOLTS & NUTS
- CONTRACTOR COMPLETED AN EXTERIOR OVERCOAT

**GREGORYVILLE TANK (WELDED STEEL)**

GENERAL INFORMATION

- ~ 60,000 GALLON
- 48' HEIGHT
- 25' DIAMETER
- 24 YEARS OF SERVICE

**RECORD DRAWINGS**

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PHASE 11 WATER SYSTEM  
IMPROVEMENTS  
FOR THE  
RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 3 - TANK REHABILITATION  
**REHABILITATION PLAN  
GREGORYVILLE TANK**

PROJECT NO.  
**15036**

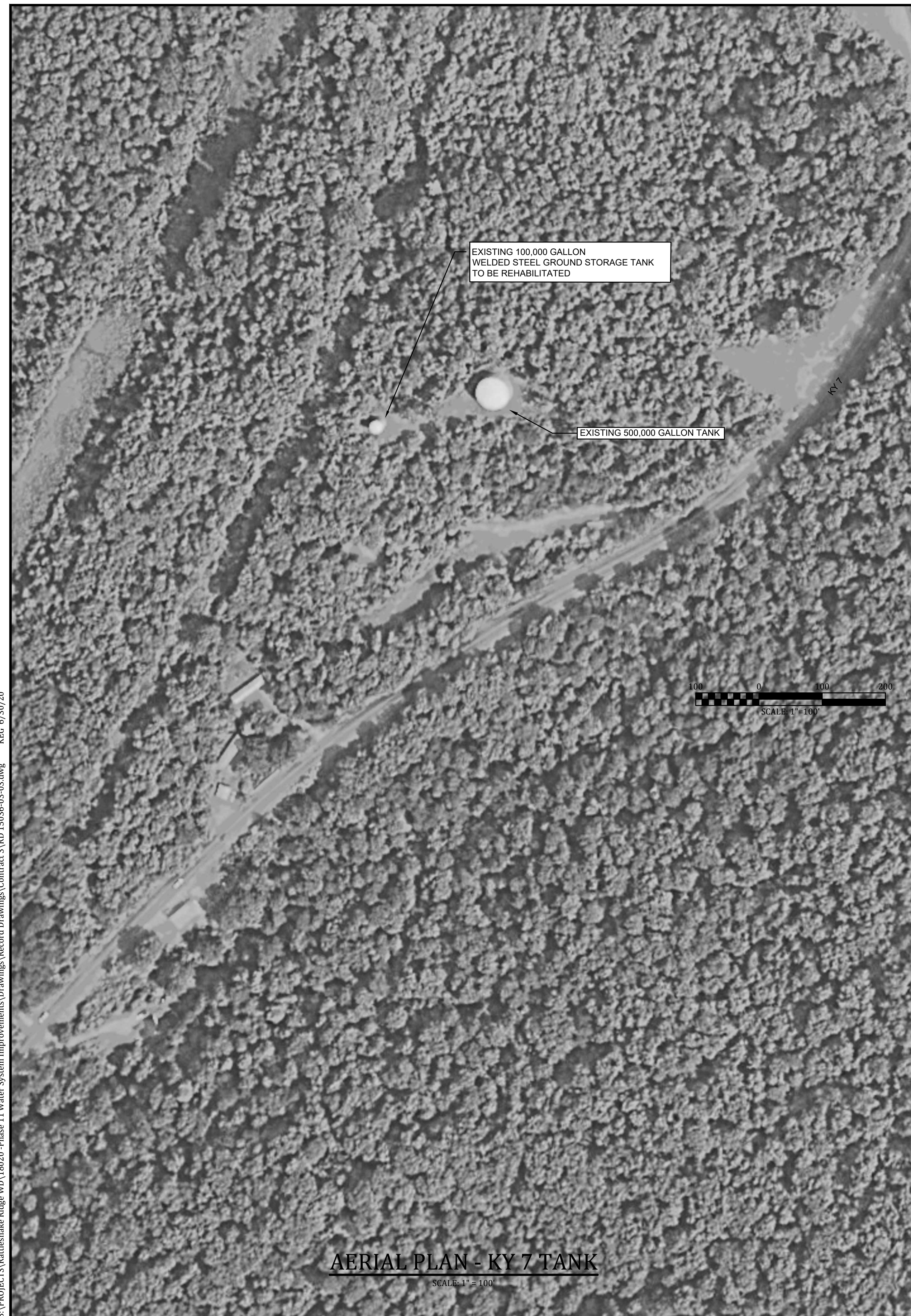
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**02**

PROJECT NO.  
**15036**

SHEET NO.  
**02**

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**AERIAL PLAN - KY 7 TANK**  
SCALE: 1" = 100'



**ELEVATION VIEW -KY 7 TANK**  
NOT TO SCALE

**TANK IMPROVEMENTS:**

INTERIOR

- SP 10 COMMERCIAL BLAST
- CAULK ALL SEAMS ABOVE WATER LEVEL
- PAINT - 3 COAT EPOXY PER SPECIFICATIONS
- REPAIR INTERIOR LEAK AROUND INLET PIPE W. WELDING OF STEEL PLATES
- PLACEMENT OF SAND UNDERNEATH STEEL FLOOR AT POINT OF REPAIR
- GROUT AROUND FOUNDATION OF TANK
- OFFSET WIRES TO LADDER BRACES

EXTERIOR

- POWER WASH (MIN. 3500 PSI)
- POWER TOOL CLEANING OF SPOT REPAIRS
- SPOT PRIME EPOXY & 1 COAT EPOXY ON TOUCH UP AREAS
- REPLACE MANWAY GASKET & MANWAY BOLTS & NUTS

**KY 7 TANK (WELDED STEEL)**

GENERAL INFORMATION

- ~ 100,000 GALLON
- 33' HEIGHT
- 14' DIAMETER
- 29 YEARS OF SERVICE

**RECORD DRAWINGS**

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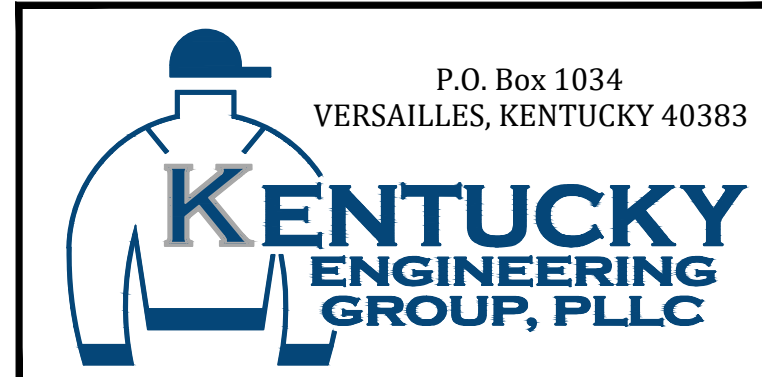
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**PHASE 11 WATER SYSTEM IMPROVEMENTS**  
FOR THE  
RATTLESNAKE RIDGE WATER DISTRICT

**CONTRACT 3 - TANK REHABILITATION**

**REHABILITATION PLAN**  
**KY 7 TANK**

PROJECT NO.  
**15036**

SHEET NO.  
**03**

PROJECT NO.  
**15036**

SHEET NO.  
**03**

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**AERIAL PLAN - DIAMOND RIDGE TANK**  
SCALE: 1" = 100'



**ELEVATION VIEW - DIAMOND RIDGE TANK**  
NOT TO SCALE



**GROUND VIEW - DIAMOND RIDGE TANK**  
NOT TO SCALE

**TANK IMPROVEMENTS:**

**INTERIOR**

- SP 10 COMMERCIAL BLAST
- CAULK ALL SEAMS ABOVE WATER LEVEL
- PAINT - 3 COAT EPOXY PER SPECIFICATIONS

**EXTERIOR**

- POWER TOOL CLEANING OF SPOT REPAIRS
- POWER WASH (MIN. 3500 PSI)
- SPOT PRIME EPOXY & 1 COAT EPOXY ON TOUCH UP AREAS

**GENERAL**

- CONTRACTOR TO GIVE 7 DAY NOTICE TO OWNER & ENGINEER PRIOR TO PERFORMING ANY TANK SHUTDOWN.
- NO WORK TO BE PERFORMED ON TANK UNTIL OWNER & ENGINEER HAVE GIVEN WRITTEN PERMISSION TO PROCEED. DIAMOND RIDGE BOOSTER STATION IMPROVEMENTS SHALL BE COMPLETED & DEEMED TO BE ACCEPTED PRIOR TO ANY WORK BEING ALLOWED.
- ANY DEMOBILIZATION/REMOBILIZATION COSTS WAITING ON DIAMOND RIDGE PUMP STATION TO BE REHABILITATED SHALL BE FIGURED INTO BID. NO ADDITIONAL COSTS WILL BE GRANTED.

**GREGORYVILLE TANK (WELDED STEEL)**

**GENERAL INFORMATION**

- ~ 54,000 GALLON
- 48' HEIGHT
- 25' DIAMETER
- 24 YEARS OF SERVICE

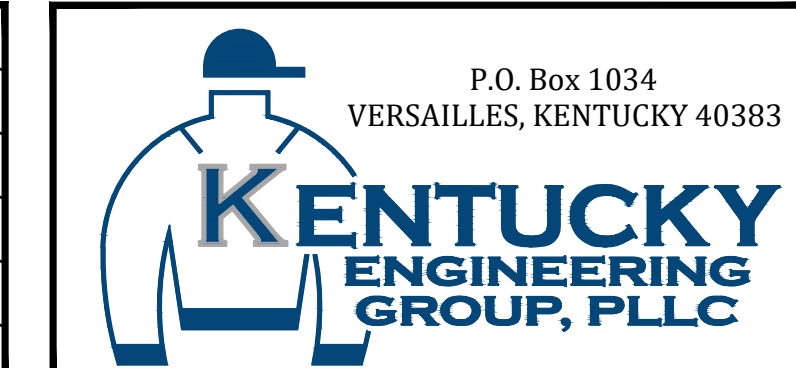
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**PHASE 11 WATER SYSTEM IMPROVEMENTS**  
FOR THE  
RATTLESNAKE RIDGE WATER DISTRICT

**CONTRACT 3 - TANK REHABILITATION**  
  
**REHABILITATION PLAN**  
**DIAMOND RIDGE TANK**

PROJECT NO.  
**15036**  
  
SHEET NO.  
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