WALKERS CHAPEL WATER TANK

Chairman - Wayne Jackson

BOARD MEMBERS

Joe Young

Jeff Powell

Robin York

Darace Tabor

Adam Nunn, General Manager

\PR0JECTS\Allen County Water District\22048 - Walkers Chapel Tank\DWG\22048-00.dwg

FOR THE ALLEN COUNTY WATER DISTRICT 330 NEW GALLATIN ROAD

SCOTTSVILLE, KY 42164

SEPTEMBER 2023

PREPARED BY:



222 East Main Street, Ste. 1 • Georgetown, KY 40324



PROJECT NO. 22048

22CWW064 WX21003029





IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER THIS DRAWING FROM BLUEGRASS ENGINEERING, PLLC AND ACTING UNDER THE DIREG

EXISTING UTILITIES

WATER

ELECTRIC Tri-County Electric

(270) 237-4418

330 New Gallitin Rd.

SCOTTSVILLE, KY 42164

(270) 622-3040 OFFICE

620 Veterans Memorial Hwy SCOTTSVILLE, KY 42164

Adam Nunn, General Manager



ALLEN COUNTY WATER DISTRICT

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.

TELEPHONE & CABLE NCTC 1630 Bowling Green Rd

PO BOX 96 SCOTTSVILLE, KY 42164 (270) 622-7500

DRAWING INDEX

<u>SHT. NO.</u>	DESCRIPTION:
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01	PROJECT MAP, E
02	NEW WALKERS (
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LEGEND

	NEW WATER MAIN
w	EXISTING WATER MAIN
SAN	EXISTING SANITARY SEWER
G	EXISTING GAS MAIN
—— FM ——	EXISTING FORCE MAIN
	NEW STEEL CASING
	EXISTING CULVERT

GENERAL NOTES

- DIMENSIONS OF EXISTING STRUCTURES, EQUIPMENT, ETC. SHALL BE FIELD CONFIRMED BY THE CONTRACTOR. WHERE CRITICAL DIMENSIONS FOR INSTALLATION OF PROPOSED EQUIPMENT ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL CONFIRM THESE DIMENSIONS FOR ACTUAL EQUIPMENT FURNISHED. ALL KNOWN DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- THE CONTRACTOR SHALL USE ALL POSSIBLE CARE DURING EXCAVATION ON THIS PROJECT SO AS NOT TO DISTURB ANY EXISTING UTILITY WHETHER SHOWN ON PLANS OR NOT. ANY UTILITY DISTURBED OR DAMAGED BY THE CONTRACTOR DURING HIS CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITY TO THE AREA WITHIN EXISTING EASEMENTS AND CONSTRUCTION LIMITS, UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER.
- . THE CONTRACTOR WILL BE SOLELY LIABLE FOR ANY WORK HE PERFORMS OUTSIDE OF LEGAL EASEMENTS OR CONSTRUCTION LIMITS.
- 5. THE CONTRACTOR MUST CONTACT ALL UTILITY OWNERS AND HAVE THEM FIELD LOCATE THEIR EXISTING LINES PRIOR TO ANY CONSTRUCTION ACTIVITY.
- 5. EFFORTS HAVE BEEN MADE TO INDICATE ACCURATE LOCATIONS OF SOME EXISTING STRUCTURES, PIPING AND UTILITIES. HOWEVER THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND OTHER EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN INFORMATION DEPICTED BY THE CONSTRUCTION DRAWINGS AND ACTUAL FIELD CONDITIONS WHICH WOULD SIGNIFICANTLY ALTER THE DESIGN INTENT OF THE CONSTRUCTION DRAWINGS PRIOR TO COMMENCING HIS CONSTRUCTION OPERATIONS. DIMENSIONS OF EXISTING STRUCTURES AND/OR SITE RESTRICTIONS ARE APPROXIMATE, IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN AND CONFIRM ALL DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES AND TOPOGRAPHY IN THE FIELD NECESSARY FOR HIS CONSTRUCTION OPERATION.
- 7. THE CONTRACTOR SHALL USE ALL POSSIBLE CARE DURING EXCAVATION ON THIS PROJECT SO AS NOT TO DISTURB OR DAMAGE ANY EXISTING UTILITY OR STRUCTURE NOT SCHEDULED FOR DEMOLITION WHETHER DEPICTED OR NOT IN THE CONSTRUCTION DRAWINGS. ANY DAMAGE TO THE AFORE MENTIONED ITEMS CAUSED DIRECTLY OR INDIRECTLY BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO BEING DAMAGED.
- THE CONTRACTOR SHALL CONTACT AND OBTAIN THE PERMISSION OF EXISTING UTILITY OWNERS 48 HOURS (MIN.) PRIOR TO ANY CONSTRUCTION ACTIVITY INTERRUPTING OPERATION OF SAID UTILITY.
- . UNLESS OTHERWISE NOTED, ALL BURIED PIPES SHALL HAVE 30" (MIN.) COVER AS MEASURED FROM FINISHED GRADE TO THE OUTSIDE SURFACE OF THE PIPE.
- 10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WORK ALL APPLICABLE DRAWINGS AND THE APPROPRIATE SPECIFICATIONS AS A UNIT. ANY OMISSIONS, DELETIONS, OR CONFLICT'S 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.

EXISTING UTILITIES, LEGEND and DRAWING INDEX CHAPEL ELEVATED TANK & WALKERS CHAPEL MOLITION ER TANK AILS - ELEVATED WATER STORAGE TANK AILS - WATER LINES AILS - ROAD CROSSING AILS - SITE GRADING & EROSION CONTROL

> NEW FLUSHING HYDRANT EXISTING FLUSHING HYDRANT

EXISTING FLUSHING HYDR

W.N

NEW GATE VALVE & BOX EXISTING MANHOLE

CONSTRUCTION IN KTC RIGHT-OF-WAY

WATER MAIN/SEWER MAINS TO BE CONSTRUCTED WITHIN THE KENTUCKY TRANSPORTATION CABINET RIGHT-OF-WAY:

TRENCHES SHALL BE OF A DEPTH SUFFICIENT TO PROVIDE A MINIMUM COVER OF 42" FROM THE EXISTING GROUND SURFACE TO THE TOP OF THE PIPE AND BE LOCATED APPROXIMATELY AS SHOWN UNLESS OTHERWISE NOTED. SEE INDIVIDUAL SHEETS FOR DETAILS.

2. ALL BORES UNDER STATE HIGHWAYS RIGHT-OF-WAY:

SHALL BE A MINIMUM OF 42" DEPTH UNDER BOTTOM OF DITCH LINE TO TOP OF THE PROPOSED BORE AND/OR CASING PIPE ON BOTH SIDES OF THE HIGHWAY.

ROCK BLASTING:

THERE SHALL BE NO BLASTING WITHIN STATE RIGHT-OF-WAY WITHOUT WRITTEN CONSENT FROM THE KENTUCKY TRANSPORTATION CABINET.

PROTECTION OF EXISTING PAVING:

WATER MAINS SHALL BE INSTALLED FIVE (5) FEET FROM THE EDGE OF PAVEMENT WHERE APPLICABLE. CARE SHALL BE TAKEN BY THE CONTRACTOR TO AVOID CRACKING OR BREAKING THE BITUMINOUS PAVING. ALL DAMAGE TO THE EXISTING PAVING CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. PAVING PROTECTION SHALL BE ACCOMPLISHED BY THE USE OF RUBBER AND STREET PADDED MACHINERY OR OTHER APPROVED EQUIPMENT WELL SUITED FOR THIS TYPE OF CONSTRUCTION.

BANK AND DITCH PROTECTION EXCAVATION:

DURING CONSTRUCTION, ALL EMBANKMENTS, REFILLS AND EXCAVATIONS SHALL BE KEPT SHAPED AND DRAINED BY THE CONTRACTOR. DITCHES AND DRAINS ALONG THE HIGHWAYS SHALL BE MAINTAINED IN SUCH A MANNER AS TO DRAIN EFFECTIVELY AT ALL TIMES. PERMANENT APPURTENANCES (GATE VALVE BOXES, HYDRANTS, ETC.) SHALL NOT BE LOCATED IN DITCH LINES. PERMANENT SURFACE APPURTENANCES SHALL BE LOCATED AT THE BACK OF DITCH (MINIMUM) OR TOE OF SLOPE.

PRIVATE ENTRANCE ROAD:

ALL ROADWAYS AND DRIVEWAYS WITHIN THE WORK LIMITS OF STATE RIGHT-OF-WAYS SHALL BE REFILLED TO THE NATURAL SURFACE OF THE GROUND WITH APPROVED MATERIAL. THE MATERIAL SHALL BE PLACED AND COMPACTED TO A SMOOTHNESS SUITABLE FOR TRAFFIC. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR MAINTAINING THESE ROADWAYS UNTIL THE RESTORATION IS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL NOTE THAT ALL PRIVATE BUSINESSES AND RESIDENCES ALONG THE ROUTE OF THE PROPOSED WATER MAIN/SEWER LINE CONSTRUCTION MUST HAVE ACCESS TO THEIR PROPERTIES AT ALL TIMES DURING CONSTRUCTION.

PROTECTION OF EXISTING DRAINAGE CULVERTS:

ALL LOCATIONS WHERE THE PROPOSED WATER MAIN/SEWER LINE IS PARALLEL WITH OR CROSSING AN EXISTING STORM SEWER, THE COST OF RELAYING EXISTING CULVERT PIPES OR THE EXTRA DEPTH REQUIRED TO AVOID THE EXISTING CULVERT IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND IS NOT A PAY ITEM.

SOME EXISTING UTILITIES HAVE NOT BEEN SHOWN:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE REPRESENTATIVES OF THE VARIOUS UTILITIES WHEN WORKING NEAR ANY EXISTING UTILITY. NO ADDITIONAL PAYMENT TO THE CONTRACTOR WILL BE MADE FOR EXTRA DEPTH REQUIRED TO AVOID ANY EXISTING UTILITY.

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PROJECT #	22048
DATE:	SEPT. 2023
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	> REFERENCE NOTES:	
1.	RISER	
2.	RISER MANHOLE	
3.	RISER LADDER, SEE GENERAL NOTES.	
4.	STAY RODS	
5.	BRACE RODS	/
6.	STRUTS	_ /
7.	TOWER LADDER W. OSHA COMPLAINT SAFETY CLIMB DEVICE	
8.	TOWER LEG, SEE GENERAL NOTES.	
9.	BALCONY W. HANDRAIL.	
10.		
11.	ROOF LADDER W. OSHA COMPLIANT SAFETY	
12.	ROOF MANHOLE, SEE SHEET 04	\searrow
13.	VENT, SEE SHEET 04	\times 1
14.	OVERFLOW	
15.	SIGNAGE REQUIRED SEE SPECIFICATION	
16.	EXHAUST FAN MANHOLE	\mathbf{A}
17.	BALCONY MANHOLE	\backslash
18.	NEMA 4X JUNCTION BOX NEXT TO MOUNTING BRACKET FOR TELEMETRY ANTENNA	
19.	1 1/4" COUNDUIT FOR TELEMETRY PANEL	(17)-/
20.	. ANTENNA MOUNTING BRACKET12" D.I.P. P.E. X FLG'D	
21.	. 8" D.I. PIPE FLG'D X P.E.	\sqrt{r}
22.	. 8" D.I. FLG'D GATE VALVE W. HANDWHEEL	
23.	. 8" D.I. FLG'D SPOOL PIPE	
24.	. 8" D.I. DISMANTLING JOINT DJ400 BY ROMAC	
25.	. 8" D.I. FLG'D CHECK VALVE	
26.	. 8" D.I. FLG'D 90° FITTING	
27.	. 8" D.I. FLG'D TEE	
28.	. PREFORMED OPENING TO BE GROUTED WITH NON-SHRINKING GROUT	
29.	. PRECAST CONCRETE VAULT	
30.	. 36" X 36" ALUM. HATCH W. VAULT LADDER	
31.	. 1 1/2" PVC CONDUIT FOR ELECTRIC	
32.	. 1 1/2" PVC CONDUIT FOR TELEMETRY	
33.	. PRESSURE TRANSDUCER FOR SCADA CONTROLS	
34.	. 6" PVC SDR-35 VAULT DRAIN LINE	

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GENERAL NOTES ACCESSORIES SHOWN, MAY BE ROTATED FOR

- CLARITY. ALL ACCESSORIES SHALL BE FIELD LOCATED PRIOR TO INSTALLATION & APPROVED BY OWNER & ENGINEER. 2. ALL HANDRAILS, PLATFORM LANDINGS, WALKWAYS,
- LADDERS AND SAFETY CLIMB DEVISES SHALL CONFORM WITH THE CURRENT OSHA STANDARDS. 3. SEE SPECIFICATIONS FOR SHOP & FIELD PAINT
- REQUIREMENTS.
- STERILIZE TANK PER SPECIFICATIONS & AWWA C652, LATEST EDITION.
- NUMBER OF TOWER LEGS PER MANUFACTURER'S STANDARD DESIGN.
- 6. TANK AND TOWER SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH AWWA D100-05 **OR CURRENT REVISIONS & SPECIFICATIONS.**
- TANK CONTRACTOR TO SUBMIT FOR APPROVAL BY THE PROJECT ENGINEER, STRUCTURAL DESIGN PLANS AND CALCULATIONS FOR THE TANK AND FOUNDATION. ANY PROPOSED REVISIONS IN THE SITE PLAN SHOULD ALSO BE INCLUDED. STRUCTURAL PLANS TO BE STAMPED AND SIGNED BY A REGISTERED STRUCTURAL ENGINEER, LICENSED IN THE STATE OF THE OWNER. FOUR (4) SETS TO BE SUBMITTED TO THE PROJECT ENGINEER. THIS SHALL INCLUDE THE SITE CLASS COEFFICINT FOR SEISMIC DESIGN PER THE KENTUCKY BUILDING CODE.
- 8. FOR BIDDING PURPOSES, A GEOTECHNICAL REPORT HAS BEEN PROVIDED TO ALL BIDDERS. THE INFORMATION CONTAINED WITHIN THE REPORT ARE NOT INTENDED AS WARRANTIES BUT ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE RECOMMENDED BEARING CAPACITY PROVIDED IN GEOTECHNICAL REPORT SHALL BE VERIFIED BY THE TANK CONTRACTOR & THEIR GEOTECHNICAL ENGINEER &/OR REPORTS. THE TANK CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE TANK FOUNDATION.
- 9. TANK CONTRACTOR MAY CONDUCT A SECOND GEOTECHNICAL REPORT FOR THE TANK SITE. IF AN ADDITIONAL REPORT IS CONDUCTED, THEN THE TANK CONTRACTOR SHALL SUBMIT FOUR (4) SETS OF THE REPORT TO THE PROJECT ENGINEER.
- 10. ANY BORING LOGS & RELATED INFORMATION SHOWN ON THE DRAWINGS OR SPECIFICATIONS DEPICT APPROXIMATE SUBSURFACE CONDITIONS AT THE TIME OF DRILLING. SOIL CONDITIONS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURRING AT THE BORING LOCATIONS. THE PASSAGE OF TIME CAN RESULT A CHANGE IN SOIL CONDITIONS AT BORE HOLES.
- 11. FOUNDATION CONSTRUCTION SHALL COMPLY WITH AWWA 100-05, LATEST EDITION, ACI 318-95, ACI 301-96 & APPLICABLE SECTION OF SPECIFICATIONS & GEOTECHNICAL REPORT(S).
- 12. CONCRETE COMPRESSIVE STRENGTH SHALL BE 4,000 PSI AT 28 DAYS. REINFORCEMENT SHALL CONFROM TO ASTM A615 GR 60.
- 13. THE TOP OF PIERS SHALL BE LEVEL, TRUE & AT SAME ELEVATION, UNLESS OTHERWISE NOTED ON PLANS W/ A MAXIMUM DIFFERENTAL OF +/- 1/4".
- 14. ANCHOR BOLTS SHALL BE PLACED WITHIN +/- 1/8" OF THE DIMENSIONS SHOWN ON PLANS AT THE TOP OF THE CONCRETE PIER, PLUMB WITHIN $\frac{1}{4}$ " IN 12" & EXTEND WITHIN ¹/₂" OF THE PROJECTION ABOVE THE TOP OF THE FOUNDATION.
- 15. TANK CONTRACTOR IS RESPONSIBLE FOR A COMPLETE INSTALLATION INCLUDING ANCHOR BOLTS, ANCHOR BARS, VERTICAL STEEL PIPE, YARD PIPING AS SHOWN OR OTHERWISE ASSUMED.
- 16. ALL WELDING PER STANDARDS OF A.W.S.
- 17. TANK CONTRACTOR SHALL INSTALL ALL CONDUIT & SUPPORT BRACKET FOR ANTENNA. TANK CONTRACTOR SHALL ALSO SUPPLY THREE (3) ADDITIONAL SUPPORT BRACKETS FOR FUTURE USE AND INSTALLED AS DETERMINED IN THE FIELD.
- 18. PIPE SUPPORTS NOT SHOWN. CONTRACTOR TO INSTALL PIPE SUPPORTS UNDER ALL VALVES AND FITTINGS AS NEEDED FOR ADEQUATE SUPPORT.

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