CAMPBELL COUNTY
AJ JOLLY WATER CONNECTION

CAMPBELL COUNTY
JUDGE/EXECUTIVE: **STEVE PENDERY** **COMMISSIONERS:** **GEOFF BESECKER** **TOM LAMPE** **BRIAN PAINTER** **COUNTY ADMINISTRATOR:** **MATT ELBERFELD** **FINANCE DIRECTOR/TREASURER:** **LAURA LEWIS** **COURSE SUPERINTENDENT:** **TIM MASON** **ROAD SUPERVISOR:** **LUKE MANTLE**

UTILITY OWNERSHIP

GAS - DUKE ENERGY

MR. SCOTT PFEFFERMAN
617 TODHUNTER ROAD
MONROE, OHIO 45050

ELECTRIC - DUKE ENERGY

MR. BILL HOFSTETTER
2010 DANA AVENUE, EF 324
CINCINNATI, OHIO 45207

WATER - NORTHERN KENTUCKY WATER DISTRICT

MR. KYLE RYAN
NORTHERN KENTUCKY WATER DISTRICT
P.O. BOX 18640
ERLANGER, KENTUCKY 41018

TELEPHONE - ALTAFIBER

MR. TIM SEESTEDT / UNDERGROUND
MS. JODI WILDEBOER / OVERHEAD
221 E. FOURTH STREET, M.L. 121-900
CINCINNATI, OHIO 45201

CABLE TV - CHARTER COMMUNICATIONS

10920 KENWOOD ROAD
CINCINNATI, OHIO 45252

SANITARY & STORM - SANITATION DISTRICT NO. 1 (SD1)

MR. ZACK ATKERSON
1045 EATON DRIVE
FORT WRIGHT, KENTUCKY 41017

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CAMPBELL COUNTY, KENTUCKY
32415

VICINITY MAP

N.T.S

NORTHERN KENTUCKY WATER DISTRICT SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS AND DRAWINGS OF THE NORTHERN KENTUCKY WATER DISTRICT FOR THE INSTALLATION OF WATER MAIN AND METER PITS SHALL GOVERN ALL WATER MAIN CONSTRUCTION ITEMS ON THIS PROJECT.

K.T.C SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS OF THE KENTUCKY TRANSPORTATION CABINET, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO AND CAMPBELL COUNTY REQUIREMENTS SHALL GOVERN THIS IMPROVEMENT.

SOURCE OF BOUNDARY AND TOPOGRAPHIC INFORMATION

THE BOUNDARY INFORMATION SHOWN ON THESE PLANS IS BASED UPON CAMPBELL COUNTY G.I.S. MAPPING AND DOES NOT REPRESENT AN ACTUAL FIELD BOUNDARY SURVEY BY VERDANTAS, LLC.
THE TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON FIELD TOPOGRAPHIC SURVEY BY VERDANTAS, LLC.

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8	P&P	EAGLE VIEW - ALTERNATE A PLAN AND PROFILE

08/14/2025
STATE OF KENTUCKY
ROBERT KEVIN SEITZINGER, II
33805
LICENSED PROFESSIONAL ENGINEER

verdantas

NO	REVISION	DATE

ISSUED FOR: BID
ISSUE DATE: X/XX/2025
SCALE: AS NOTED
DESIGNED BY: RAS
DRAWN BY: RAS
CHECKED BY:

AJ JOLLY PARK WATER CONNECT
CITY OF ALEXANDRIA
CAMPBELL COUNTY, KENTUCKY

PROJECT NO.
32415
DISCIPLINE
SHEET NAME

SHEET 1 OF 8

C:\CT\2025\CAMPBELL COUNTY\DWG\BASE_32415 - P-BASE - TITLE&DETAILS.DWG - TITLE SHEET - 6/5/2025 12:56:47 PM - REID SCOTT

GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS, THE LATEST EDITION OF THE CITY OF FORT THOMAS SUBDIVISION REGULATIONS AND THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. ALL DISTURBED AREAS ARE TO BE RESTORED (SEEDED AND MULCHED) BY THE CONTRACTOR AND SHALL PROCEED WITH JOB PROGRESSION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING ANY EXCESS MATERIALS AT THE SITE AND MAINTAINING ALL SEEDED AND MULCHED AREAS UNTIL PROJECT COMPLETION AND FINAL INSPECTION PER KDOT SPEC. 212. A RESIDENTIAL YARD SHALL BE RESTORED WITHIN TWENTY-ONE (21) DAYS AFTER CONSTRUCTION.
3. ALL APPLICABLE RECOMMENDATIONS IN KENTUCKY'S BEST MANAGEMENT PRACTICES MANUAL SHALL BE FOLLOWED BY THE CONTRACTOR, INCLUDING SEEDING OF DISTURBED GROUND.
4. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE PLOTTED FROM CAMPBELL COUNTY G.I.S. MAPPING AND ARE APPROXIMATE AND NOT THE RESULT OF A FIELD BOUNDARY SURVEY.
5. THE CONTRACTOR SHALL LIMIT THEIR WORK AREA TO THE EASEMENTS AND RIGHTS-OF-WAY SHOWN ON THESE PLANS UNLESS WRITTEN PERMISSION IS GIVEN BY THE PROPERTY OWNER AND APPROVED BY CAMPBELL COUNTY.
6. ALL OSHA, STATE AND LOCAL SAFETY REGULATIONS SHALL BE FOLLOWED DURING CONSTRUCTION.
7. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL CAMPBELL COUNTY PERMITS HAVE BEEN ISSUED AS REQUIRED.
8. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH CAMPBELL COUNTY. LOCAL TRAFFIC MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE NOTED IN THESE PLANS.
9. ADDITIONAL BMP'S AND EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY. ALL COST FOR ABOVE SHALL BE INCLUDED IN LUMP SUM BID FOR EROSION CONTROL AND WATER POLLUTION CONTROL.

GENERAL TRENCH EXCAVATION NOTES

1. CONTRACTOR IS TO PROVIDE CONSTANT STABLE SUPPORT FOR THE WATER MAIN TRENCH EXCAVATION (ie SHEETING, SHORING, ETC.) TO PROTECT ALL ADJACENT EXISTING UTILITIES, STORM SEWER PIPE AND STRUCTURES AND THE EXISTING ROADWAY FROM ANY MOVEMENT. (NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK. ANY COSTS ASSOCIATED WITH TRENCH SUPPORT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE ASSOCIATED WATER MAIN.

   TRENCH SUPPORT FAILURE RESULTING IN ADVERSE IMPACT TO EXISTING UTILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
2. TRENCH EXCAVATION AND OPEN, UNBACKFILLED LENGTH OF WATER MAIN TRENCH SHALL BE LIMITED AS NECESSARY ALONG THE ROADWAY IN ORDER TO PREVENT MOVEMENT OF, OR DAMAGE TO THE SURROUNDING GROUND SURFACE, NEARBY STRUCTURES/INFRASTRUCTURE AND THE EXISTING ROADWAY PAVEMENT.

   TRENCH EXCAVATION SHALL ALSO BE LIMITED TO THE CONTRACTOR'S ABILITY TO PROVIDE TRENCH BOXES FOR SUPPORT. UNDER NO CIRCUMSTANCES SHALL TRENCH EXCAVATION EXCEED LENGTH OF SUPPORT AVAILABLE.

UTILITY NOTES

1. THIS PLAN SHOWS THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES (GAS, WATER, STORM SEWER, SANITARY SEWER, TELEPHONE, ELECTRIC, ETC.). THE PREPARER DOES NOT GUARANTEE THEIR ACCURACY OR CORRECTNESS. THE INFORMATION PROVIDED SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE UTILITY AS WELL AS THE SERVICE LATERALS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PRACTICE CARE DURING THE GRADING AND TRENCH EXCAVATION AND SHALL BE RESPONSIBLE FOR REPLACING ANY SERVICES THAT ARE DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.
2. PRIOR TO ANY EXCAVATION OVER AN EXISTING UTILITY LINE OR SERVICE, CONTRACTOR SHALL HAND EXCAVATE TO EXPOSE THE UTILITY AND DETERMINE LOCATION AND DEPTH. NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICTS.
3. TOPS OF EXISTING AND PROPOSED CASTING ELEVATIONS ARE SUBJECT TO FINAL ADJUSTMENTS AS APPROVED BY THE ENGINEER AND REQUIREMENTS OF UTILITY OWNER. THIS WORK WILL BE INCIDENTAL TO THE CONTRACT.
4. FORTY-EIGHT (48) HOURS BEFORE EXCAVATION IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE KENTUCKY UTILITY PROTECTION SERVICE AND ALL OTHER UTILITIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF KENTUCKY UNDERGROUND PROTECTION.

STORM & SANITARY NOTES

1. ALL STORM AND SANITARY ITEMS SHALL BE IN ACCORDANCE WITH THE LATEST SPECIFICATIONS AND DETAILS FROM SD1. CONCRETE AND METAL PIPE MATERIALS SHALL NOT BE USED UNLESS OTHERWISE SPECIFIED ON THESE PLANS.
2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STORM AND SANITARY SEWER FLOW THROUGHOUT THE PROJECT, FOR THE DURATION OF CONSTRUCTION. ALL COST FOR THE ABOVE SHALL BE INCIDENTAL TO THE CONTRACT.
3. IF REQUIRED, CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND SCHEDULING STORM AND SANITARY SEWER INSPECTIONS AS SET OUT IN THE PRECONSTRUCTION MEETING.
4. CONNECTIONS INTO EXISTING OR PROPOSED STORM OR SANITARY SEWER STRUCTURES OR PIPES SHALL BE COMPLETED BY A CERTIFIED TAPPER BY SD1.

WATER NOTES

1. ALL WORK RELATING TO WATER MAINS OR WATER SERVICE LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE NORTHERN KENTUCKY WATER DISTRICT (NKWD).
2. CONTRACTOR MAY NOT USE WATER FROM FIRE HYDRANTS WITHOUT PRIOR PERMISSION FROM NKWD.

GAS NOTES

1. ALL WORK RELATING TO GAS FACILITIES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF DUKE ENERGY.

ELECTRIC NOTES

1. ALL WORK RELATING TO ELECTRIC LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF DUKE ENERGY.

WATER DISTRICT GENERAL NOTES

1. THE EXISTING WATER MAIN ELEVATION AND LOCATION AT THE CONNECTION POINT WITH THE PROPOSED MAIN WAS ASSUMED AND HAS NOT BEEN FIELD VERIFIED. PRIOR TO COMMENCEMENT OF ANY WATER MAIN WORK, THE CONTRACTOR SHALL DIG A TEST HOLE AT THE CONNECTION POINT TO LOCATE EXISTING WATER MAIN AS TO LOCATION AND ELEVATION. THE EXISTING WATER MAIN LOCATION MAY REQUIRE SOME FIELD ADJUSTMENT TO THE PROPOSED WATER MAIN INCLUDING ADJUSTING THE DEPTH OF THE PROPOSED WATER MAIN. COST OF DOING THE ABOVE SHALL BE INCIDENTAL TO THE PERTINENT WATER MAIN ITEM.
2. COST OF TRIMMING OR CLEARING ANY TREES, BUSHES, ETC. SHALL BE INCIDENTAL TO THE OVERALL CONTRACT PRICE AND SHALL BE APPROVED BY N.K.W.D. AND CAMPBELL COUNTY AND THE PROPERTY OWNER.
3. THE UTILITY INFORMATION SHOWN ON THE PLANS IS BASED ON INFORMATION RECEIVED FROM OTHERS AND HAS NOT BEEN VERIFIED BY THE ENGINEER OR OWNER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF THE UTILITIES AND TO COORDINATE ANY IMPACT CAUSED BY THE PROPOSED WORK WITH ALL UTILITY OWNERS AND/OR THEIR CONTRACTORS. THE CONTRACTOR WILL BE REQUIRED TO DIG TEST HOLES AT ALL UTILITY CROSSINGS TO LOCATE THE UTILITY AS TO BOTH LOCATION AND ELEVATION AND WILL BE REQUIRED TO REALIGN AND ADJUST THE ELEVATION OF THE PROPOSED WATER MAIN TO AVOID THE UTILITY. COST OF ALL THE ABOVE SHALL BE INCIDENTAL TO THE OVERALL CONTRACT PRICE.
4. UNLESS SPECIFICALLY INSTRUCTED OTHERWISE, RETURN ALL REMOVED WATER EQUIPMENT INCLUDING, FIRE HYDRANTS, VALVES, AND WATER METERS TO NORTHERN KENTUCKY WATER DISTRICT (N.K.W.D).
5. WATERLINES CROSSING UNDER OR OVER SEWER LINES (DEFINED AS ANY SANITARY/COMBINED SEWER, SEPTIC TANK OR SUBSOIL TREATMENT SYSTEM) MUST MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 18" AND ONE FULL LENGTH OF PIPE SHALL BE LOCATED SO BOTH JOINTS ARE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.
6. CONTRACTOR IS RESPONSIBLE FOR KEEPING FIELD NOTES THAT PROVIDE SUFFICIENT DATA FOR PREPARING "RECORD DRAWINGS" UPON COMPLETION OF CONSTRUCTION.
7. ALL WATER MAIN CONSTRUCTION SHALL CONFORM TO THE NORTHERN KENTUCKY WATER DISTRICT SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CURRENT COPY OF THE NORTHERN KENTUCKY WATER DISTRICT'S STANDARD DRAWINGS.
8. ALL MATERIAL FOR THE PROP. WATER MAIN INSTALLATION INCLUDING ALL FITTINGS, BLOCKING, ETC., SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE FOR WATER MAIN.
9. COST OF ALL TRENCHING, PIPE, PIPE BEDDING, BACKFILL, YARD RESTORATION AND TEMPORARY PAVEMENT, DRIVEWAY AND SIDEWALK RESTORATION SHALL BE PART OF THE COST OF INSTALLING THE WATER MAIN. PERMANENT DRIVEWAY RESTORATION, SIDEWALK RESTORATION, CURB RESTORATION AND STREET RESTORATION WILL BE SEPARATE PAY ITEMS AND INCLUDE INCIDENTALS SUCH AS MAIL BOX, STREET SIGN, AND FENCE REMOVAL AND REPLACEMENT.
10. THE PROPOSED WATER MAIN SHALL BE MINIMUM CLASS 50 DUCTILE IRON PIPE ACCORDING TO NKWD SPECIFICATIONS.
11. PROPOSED WATER MAIN SHALL BE THOROUGHLY CLEANED, FLUSHED, AND DISINFECTED, AS PER NORTHERN KENTUCKY WATER DISTRICT'S SPECIFICATIONS.
12. PRESSURE TESTING SHALL BE DONE AS PER NORTHERN KENTUCKY WATER DISTRICT'S SPECIFICATIONS.
13. FOR THRUST BLOCKING REFER TO THE NORTHERN KENTUCKY WATER DISTRICT'S STANDARD DRAWING NUMBERS 104 AND 104A.
14. THE PROPOSED WATER MAIN SHALL HAVE A HORIZONTAL SEPARATION OF AT LEAST 3'-0" (MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE) FROM ANY GAS MAIN.
15. A 10' MINIMUM LATERAL SEPARATION BETWEEN WATER MAINS AND SEWERS (DEFINED AS ANY SANITARY/COMBINED SEWER, SEPTIC TANK OR SUBSOIL TREATMENT SYSTEM) AND SEWER MANHOLES, MEASURED FROM THE OUTSIDE DIAMETER TO OUTSIDE, MUST BE MAINTAINED UNLESS A VARIANCE IS GRANTED FROM THE D.O.W.
16. ALL NEW WATER SERVICES SHALL BE 3/4" OR 2" (AS INDICATED ON THE PLANS) TYPE K COPPER WITH 5/8" OR 2" WATER METERS (UNLESS OTHERWISE NOTED) MATERIAL PROVIDED BY THE NORTHERN KENTUCKY WATER DISTRICT. ALL RECONNECTED WATER SERVICES SHALL BE 3/4" OR 2" TYPE K COPPER.
17. AFTER PROPOSED WATER MAIN IS TESTED AND APPROVED, THE EXISTING WATER MAIN SHALL REMAIN IN SERVICE UNTIL SUCH TIME THAT ALL NEW WATER SERVICES HAVE BEEN CONNECTED AND APPROVED. THEN AT SUCH TIME THE EXISTING WATER MAIN SHALL BE PLUGGED AND ABANDONED.
18. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY WITH CAMPBELL COUNTY TRAFFIC MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. MAINTENANCE OF TRAFFIC SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND CAMPBELL COUNTY REQUIREMENTS. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
19. REPLACE AND RECONNECT SERVICE LINE (3/4" THRU 2"). INCLUDES THE LABOR, EQUIPMENT, EXCAVATION, BEDDING, BACKFILL, ASPHALT PAVEMENT, CONCRETE PAVEMENT, CONCRETE CURB, CONCRETE WALK AND YARD RESTORATION TO INSTALL THE SERVICE LINE AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED, IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARD DRAWINGS, COMPLETE AND READY FOR USE. LEAD SERVICE LINES ENCOUNTERED BY THE EXCAVATION SHALL BE REPLACED FROM THE MAIN TO AND INCLUDING THE METER VAULT AND METER SETTING. ALL SERVICE LINE MATERIAL WILL BE SUPPLIED BY NKWD. PAID EACH (EA).
20. THE CONTRACTOR SHALL COORDINATE WITH THE NORTHERN KENTUCKY WATER DISTRICT FOR FIELD INSPECTIONS.
21. FORTY-EIGHT (48) HOURS BEFORE EXCAVATION IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE KENTUCKY UTILITY PROTECTION SERVICE AND ALL OTHER UTILITIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF KENTUCKY UNDERGROUND PROTECTION.
22. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL CAMPBELL COUNTY PERMITS HAVE BEEN ISSUED AS REQUIRED.
23. CONTRACTOR IS RESPONSIBLE FOR DEWATERING OF THE TRENCH DURING INSTALLATION OF THE WATER MAIN.
24. THE COST OF TESTING THE MAIN, TEMPORARY FLUSHING DEVICES, TEMPORARY PLUG AND BLOCKS, AND ABANDONING THE EXISTING MAIN SHALL BE INCIDENTAL TO THE PROJECT.
25. ALL PAVEMENT SHALL CONFORM TO THE LATEST EDITION OF CAMPBELL COUNTY REGULATIONS.

MAINTENANCE OF TRAFFIC NOTES

1. ALL MAINTENANCE OF TRAFFIC PROCEDURES SHALL MEET THE REQUIREMENT OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND SECTION 112 OF KTC STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL TRAFFIC (ACCESS TO RESIDENCES WITHIN CONSTRUCTION LIMITS) AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT SIGN, WARNING LIGHTS, BARRICADES, OR OTHER NECESSARY DEVICES MAKE THE SITE SAFE TO THE TRAVELING PUBLIC.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT TO THE ENGINEER AND THE OWNER A TRAFFIC CONTROL PLAN FOR THIS PROJECT.
3. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY CAMPBELL COUNTY. AT ALL TIMES, EMERGENCY VEHICLES SHALL BE GIVEN ACCESS.
4. RESIDENTS OF THE PROJECT AREA SHALL BE ALLOWED ACCESS TO THEIR PROPERTY AT ALL TIMES.
5. EACH DRIVEWAY SHALL BE ACCESSIBLE WHENEVER POSSIBLE. WHEN PORTLAND CEMENT CONCRETE CONSTRUCTION AFFECTS A DRIVEWAY, THE CONTRACTOR SHALL NOTIFY THE AFFECTED OWNERS 24 HOURS IN ADVANCE AND ADVISE THEM TO FIND ALTERNATIVE PARKING FOR A PERIOD OF AT LEAST 10 CALENDAR DAYS AFTER THE POUR. ALTERNATIVE PARKING SHALL INCLUDE "ON STREET" PARKING WITH ACCESS TO THE PROPERTY. TEMPORARY SIDEWALKS, ETC. WILL BE NECESSARY TO PREVENT PERSONS FROM WALKING IN MUD IN ORDER TO ENTER THEIR PROPERTY. TEMPORARY BRIDGES, RAILINGS ETC. WILL BECOME NECESSARY IN ORDER TO CROSS FORMED CURB LINES, EXCAVATED AREAS BEHIND CURB LINES AND WALKWAYS, ETC.

HATCH LEGEND

- 8" CONCRETE PAVEMENT TRENCH AND RESTORATION. SEE DETAIL SHEET
- 4" CONCRETE SIDEWALK REPLACEMENT - SEE DETAIL SHEET
- CURB & GUTTER REPLACEMENT - SEE DETAIL SHEET

SYMBOL LEGEND

GAS	EXISTING GAS LINE
GS	EXISTING GAS SERVICE
ELEC-UG	EXISTING ELECTRIC (UNDERGROUND / OVERHEAD)
CATV-UG	EXISTING CABLE (UNDERGROUND / OVERHEAD)
TEL-UG	EXISTING TELEPHONE (UNDERGROUND / OVERHEAD)
WAT	EXISTING WATER MAIN
WS	EXISTING WATER SERVICE
STM	EXISTING STORM SEWER
RD	EXISTING ROOF DRAIN
SAN	EXISTING SANITARY SEWER
FM	EXISTING SANITARY FORCE MAIN
FOC	EXISTING FIBER OPTICS
X	EXISTING FENCE
650	EXISTING CONTOURS (MAJOR)
648	EXISTING CONTOURS (MINOR)
EX R/W	EXISTING RIGHT OF WAY
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING GUARDRAIL
	EXISTING TREE LINE
GAS	PROPOSED GAS LINE
GS	PROPOSED GAS SERVICE
ELEC-UG	EXISTING ELECTRIC (UNDERGROUND / OVERHEAD)
CATV-UG	PROPOSED CABLE (UNDERGROUND / OVERHEAD)
TEL-UG	PROPOSED TELEPHONE (UNDERGROUND / OVERHEAD)
	PROPOSED WATER MAIN
WS	PROPOSED WATER SERVICE
	PROPOSED STORM SEWER
	PROPOSED UNDERDRAIN
UD/DSC	PROPOSED UNDERDRAIN / DOWNSPOUT COLLECTOR COMBO
	PROPOSED SANITARY SEWER
SAN-FM	PROPOSED SANITARY FORCE MAIN
FOC	PROPOSED FIBER OPTICS
X	PROPOSED FENCE
650	PROPOSED CONTOURS (MAJOR)
648	PROPOSED CONTOURS (MINOR)
	PROPOSED RIGHT OF WAY
	PROPOSED PROPERTY LINE
	PROPOSED EASEMENT
	PROPOSED GUARDRAIL
	PROPOSED TREE LINE / CLEARING LIMITS
	PROPOSED DISTURBED LIMITS
	EXISTING FLAGPOLE
MB	EXISTING MAILBOX
	EXISTING SIGN
CP	EXISTING CABLE PEDESTAL
EP	EXISTING ELECTRIC PEDESTAL
PB	EXISTING PULL BOX
	EXISTING GROUND LIGHT
	EXISTING LIGHT POLE
EM	EXISTING ELECTRIC METER
E	EXISTING ELECTRIC MANHOLE
GM	EXISTING GAS METER
GV	EXISTING GAS VALVE
GP	EXISTING GAS BOX
	EXISTING UTILITY POLE
	EXISTING GUY WIRE / ANCHOR
S	EXISTING SANITARY MANHOLE
SCO	EXISTING SANITARY CLEANOUT
D	EXISTING STORM MANHOLE
	EXISTING SINGLE / DOUBLE CURB INLET
	EXISTING CATCH BASIN
DCO	EXISTING STORM CLEANOUT
T	EXISTING TELEPHONE MANHOLE
TP	EXISTING TELEPHONE PEDESTAL
	EXISTING FIRE HYDRANT
WM	EXISTING WATER METER
WV	EXISTING WATER VALVE
	EXISTING BUSHES / TREES
	EXISTING SURVEY BENCHMARK
TB	TEST BORING LOCATION
	PROPOSED FLAGPOLE
MB	PROPOSED MAILBOX
	PROPOSED SIGN
CP	PROPOSED CABLE PEDESTAL
EP	PROPOSED ELECTRIC PEDESTAL
PB	PROPOSED PULL BOX
	PROPOSED GROUND LIGHT
	PROPOSED LIGHT POLE
EM	PROPOSED ELECTRIC METER
E	PRPOSED ELECTRIC MANHOLE
GM	PROPOSED GAS METER
GV	PROPOSED GAS VALVE
GP	PROPOSED GAS BOX
	PROPOSED UTILITY POLE
	PROPOSED GUY WIRE / ANCHOR
S	PROPOSED SANITARY MANHOLE
SCO	PROPOSED SANITARY CLEANOUT
D	PROPOSED STORM MANHOLE
	PROPOSED SINGLE / DOUBLE CURB INLET
	PROPOSED CATCH BASIN
DCO	PROPOSED STORM CLEANOUT
T	PROPOSED TELEPHONE MANHOLE
TP	PROPOSED TELEPHONE PEDESTAL
	PROPOSED FIRE HYDRANT
WM	PROPOSED WATER METER
WV	PROPOSED WATER VALVE
	REMOVE EXISTING BUSH / TREE
	PROPOSED SLOPE DIRECTION

08/14/2025
STATE OF KENTUCKY
ROBERT KEVIN SEITZINGER, II
33805
LICENSED PROFESSIONAL ENGINEER

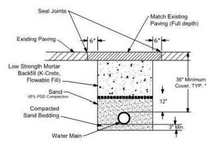
verdantas

NO	REVISION	DATE

ISSUED FOR: BID
ISSUE DATE: X/XX/2025
SCALE: AS NOTED
DESIGNED BY: RAS
DRAWN BY: RAS
CHECKED BY:

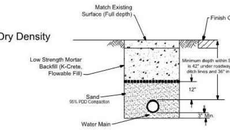
AJ JOLLY PARK WATER CONNECT
CITY OF ALEXANDRIA
CAMPBELL COUNTY, KENTUCKY

PROJECT NO. 32415
DISCIPLINE
SHEET NAME
SHEET 2 OF 8

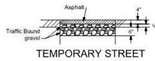


UNDER ASPHALT CONCRETE PAVEMENT

PDD= Standard Proctor Dry Density -ASTM D698



UNDER SHOULDER OF STATE MAINTAINED STREET



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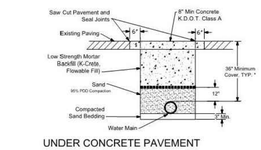
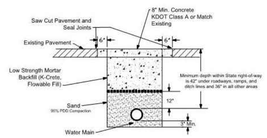


UNDER CONCRETE PAVEMENT



UNDER STATE MAINTAINED STREET

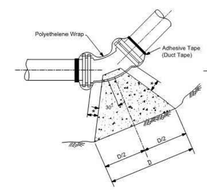
* 48" Maximum Cover

ALL CONSTRUCTION

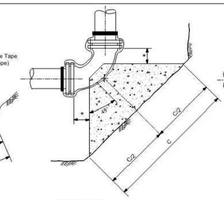
REVISION	BY:	DATE
1. Bi-directional pipe corrections	SAR	10/2021

N. KY. WATER DISTRICT
TYPICAL PIPELINE TRENCH DETAIL

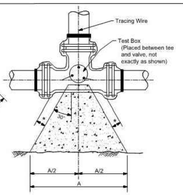
DRAWN BY: SAR
APPROVED:
DATE: 2/1/2021
STANDARD DRAWING NO: 103-A



45° BEND



90° BEND

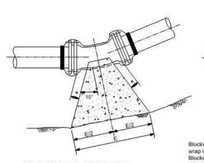


TEE (DEAD END OR FIRE HYDRANT SIMILAR

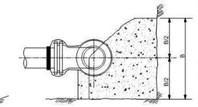
150 PSI/250 PSI

PIPE SIZE	A	B	C	D	E
6"	2'0"/2'6"	1'6"/1'6"	3'0"/3'6"	1'6"/2'0"	1'0"/1'0"
8"	2'6"/3'6"	2'0"/2'0"	3'6"/4'6"	2'0"/2'6"	1'0"/1'6"
10"	3'6"/4'0"	2'6"/2'6"	4'6"/5'6"	2'6"/3'0"	1'6"/1'6"
12"	4'0"/5'0"	3'0"/3'0"	5'6"/6'6"	3'0"/3'6"	1'6"/2'0"
16"	5'0"/6'0"	3'6"/4'0"	7'0"/8'6"	4'0"/4'6"	2'0"/3'0"
20"	6'0"/7'6"	5'0"/5'0"	7'0"/10'0"	4'0"/6'0"	3'0"/3'0"

* Distance to be 1/2" longer than entire length of the bolt used.



11 1/4° & 22 1/2° BEND



ELEVATION

Blocking shall be poured after blue polyethelene wrap is in place.
Blocking shall be inspected by the District prior to backfilling.

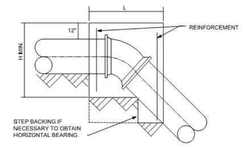
NOTES

1 DIP Fittings shall be per specifications.
2 Concrete to be 3500 psi.
3 All fittings to be Mechanical Joint.
4 Thrust blocks to be placed against undisturbed earth - use additional concrete as required for over excavation.
5 Blocking to be placed in a manner so that bolts can be removed without disturbing the block.
6 Thrust block bearing surface must be suitable for a design bearing pressure of 2,500 psi.

REVISION	BY:	DATE

N. KY. WATER DISTRICT
CONCRETE THRUST BLOCK DETAIL

DRAWN BY: SAR
APPROVED:
DATE: 2/1/2021
STANDARD DRAWING NO: 104



SECTION A-A

CONCRETE BACKING FOR VERTICAL BENDS

1. BACKING DESIGNED FOR 3000 POUNDS PER SQUARE FOOT SOIL BEARING AND 150 POUNDS PER SQUARE INCH INTERNAL PRESSURE.

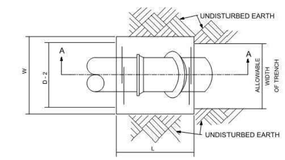
2. PROVIDE MINIMUM CONCRETE REINFORCEMENT OF 2 PAIR OF TWO 5" "U" BARS @ 12" C.

3. CENTER BACKING ON BEND.

BLOCKING FOR SIZES NOT SHOWN SHALL USE THE NEXT LARGER SIZE.

SIZE of PIPE	DEGREE OF BEND								
	11 1/4			22 1/2			45		
	L"	W"	H"	VOL.	L"	W"	H"	VOL.	L"	W"	H"	VOL.
4"	12	24	16	2.7	15	30	18	4.7	22	36	24	11.0
6"	12	43	18	5.4	16	48	34	15.1	30	55	24	22.9
8"	12	54	24	9.0	18	57	36	21.4	36	57	33	39.2
12"	20	63	36	26.3	37	62	37	49.2	48	62	51	88.0
16"	31	65	38	44.4	60	65	39	88.2	65	65	65	159.2
20"	45	70	40	73.0	56	70	60	136.4	72	76	76	247.5
24"	47	72	54	106.0	67	74	69	198.4	88	84	84	360.1

NOTE: VOLUMES GIVEN IN CUBIC FEET

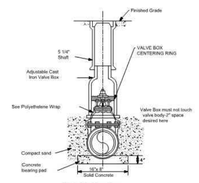


PLAN

REVISION	BY:	DATE

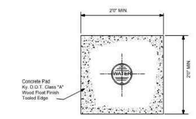
N. KY. WATER DISTRICT
CONCRETE THRUST BLOCKING FOR VERTICAL BENDS

DRAWN BY: SAR
APPROVED:
DATE: 2/1/2021
STANDARD DRAWING NO: 104-A

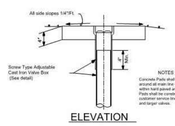


Detail Valve Box Installation

Note:Valve box shall not transmit shock or stress to the valve.



PLAN



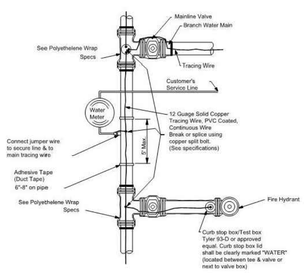
ELEVATION

NOTES
Concrete Pads shall be constructed around all main line valve Boxes except within hard paved areas. Concrete Pads shall be constructed around the customer service line valve boxes 2" and larger valves.

REVISION	BY:	DATE
1. Bi-directional pipe corrections	SAR	10/2021
2. Add Detail Plan	SAR	10/2021

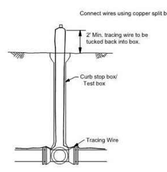
N. KY. WATER DISTRICT
VALVE BOX AND VALVE PAD DETAIL

DRAWN BY: SAR
APPROVED:
DATE: 2/1/2021
STANDARD DRAWING NO: 105



DUCTILE IRON AND PVC PIPE WITH DUCTILE IRON FITTINGS

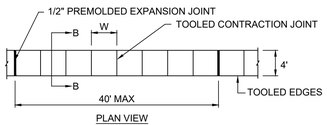
Note: Curb stop box/test box shall not be installed in paved areas.



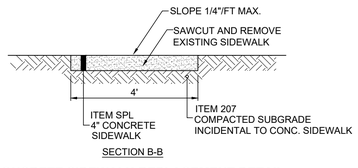
REVISION	BY:	DATE

N. KY. WATER DISTRICT
TRACING WIRE INSTALLATION DETAIL

DRAWN BY: SAR
APPROVED:
DATE: 2/1/2021
STANDARD DRAWING NO: 111

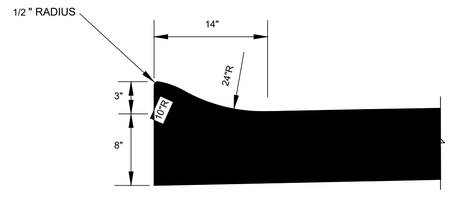


PLAN VIEW

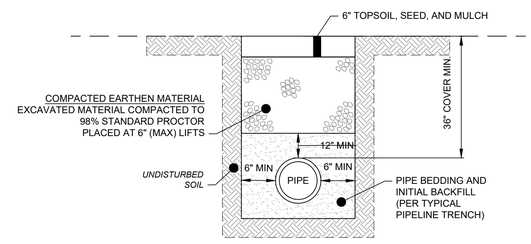


SECTION B-B

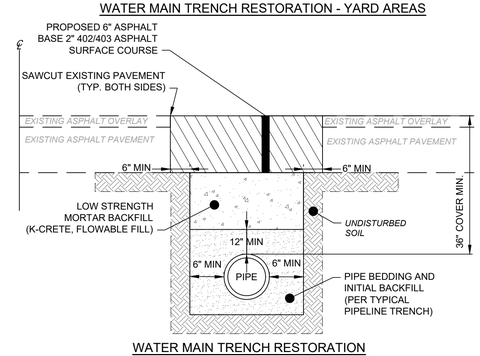
CONCRETE SIDEWALK REPLACEMENT DETAIL
N.T.S.



3" ROLLED CURB DETAIL
(INTEGRAL TO CONCRETE PAVEMENT)
N.T.S.



WATER MAIN TRENCH RESTORATION - YARD AREAS



WATER MAIN TRENCH RESTORATION

STATE OF KENTUCKY
ROBERT KEVIN SEITZINGER, II
33805
LICENSED PROFESSIONAL ENGINEER

verdantas

NO	REVISION	DATE

ISSUED FOR: BID
ISSUE DATE: X/XX/2025
SCALE: AS NOTED
DESIGNED BY: RAS
DRAWN BY: RAS
CHECKED BY:

AJ JOLLY PARK WATER CONNECT
CITY OF ALEXANDRIA
CAMPBELL COUNTY, KENTUCKY

PROJECT NO. 32415
DISCIPLINE
SHEET NAME
SHEET 3 OF 8

Z:\PROJECT FILES\CA-DZ\CAMPBELLCOUNTY\32415 - CAMPBELL COUNTY AJ JOLLY H2O CONNECT\CAD\DWG\CAMPBELL COUNTY DWG FOUND HERE\DWG\BASE_32415 - P-BASE - TITLE&DETAILS.DWG - NOTES (2) - 6/16/2025 3:04:04 PM - REID SCOTT

08/14/2025
STATE OF KENTUCKY
ROBERT KEVIN SEITZINGER, II
33805
LICENSED PROFESSIONAL ENGINEER

verdantas

NO.	REVISION	DATE

ISSUED FOR:	
ISSUE DATE:	05/12/2025
SCALE:	1" = 20'
DESIGNED BY:	RGUN
DRAWN BY:	SFRA
CHECKED BY:	TCOO

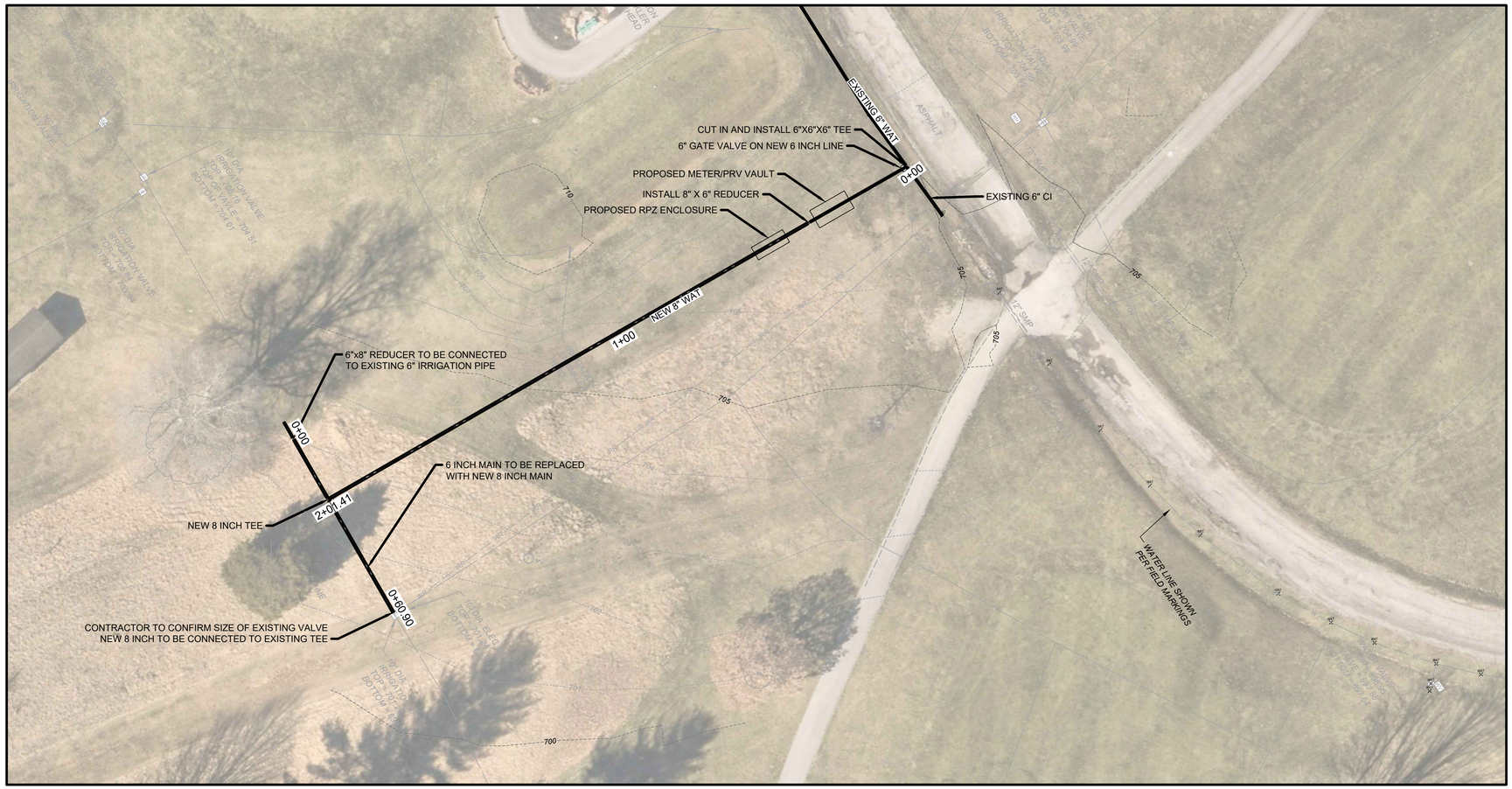
AJ JOLLY PARK WATER CONNECT
CITY OF ALEXANDRIA
CAMPBELL COUNTY, KENTUCKY

EXISTING CONDITIONS

PROJECT NO.
32415
DISCIPLINE
SURVEY
SHEET NAME
EXCOND

SHEET	OF
4	8

C:\CT2025\CAMPBELL COUNTY\DWG\BASE\C_32415 - X-BASE - EXCOND.DWG - EXISTING CONDITIONS - 6/5/2025 12:57:03 PM - REID SCOTT



20 ' 0 ' 20 '
SCALE: 1" = 20 '

NOTE:

COST OF DISPOSAL AND REMOVAL OF EXISTING PIPE, AS NECESSARY, BEING REPLACED SHALL BE INCLUDED IN BASE LF COST OF REPLACEMENT PIPE.

DISRUPTION TO SERVICE OF GOLF COURSE CLUBHOUSE SHALL BE KEPT TO LESS THAN 48 HOURS. DISRUPTION SHALL BE COORDINATED WITH CAMPBELL COUNTY AND NKWD AS REQUIRED.

STATE OF KENTUCKY
ROBERT KEVIN SEITZINGER, II
33805
LICENSED PROFESSIONAL ENGINEER

verdantas

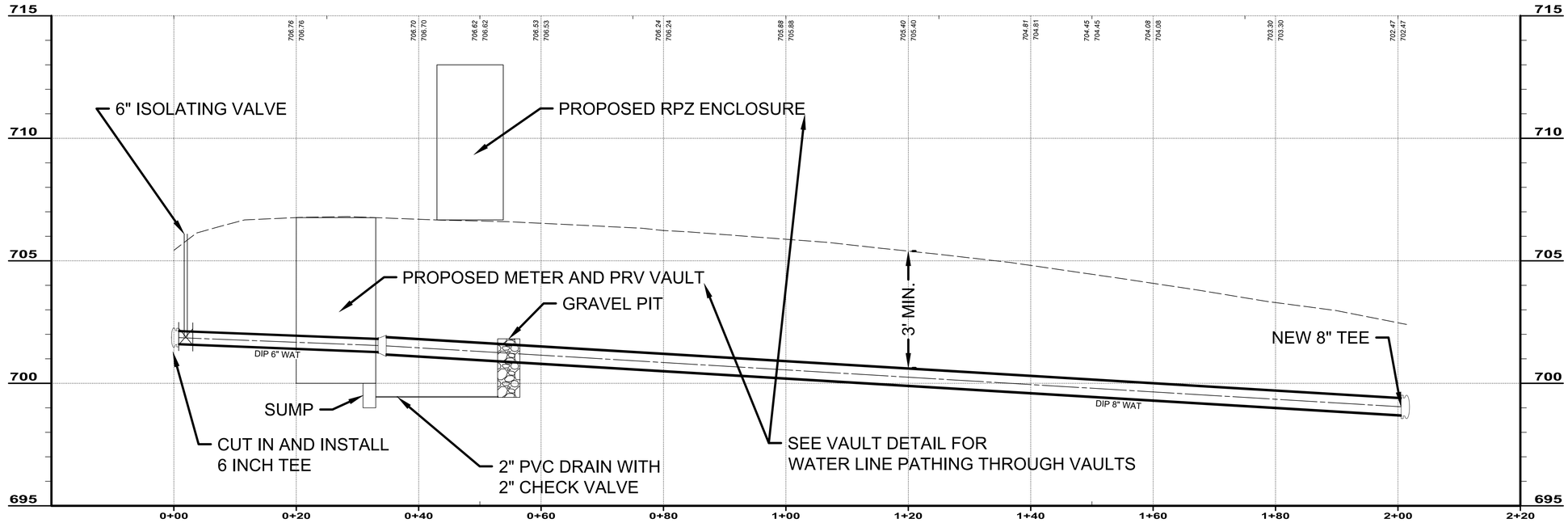
NO	REVISION	DATE

ISSUED FOR: BID
ISSUE DATE: X/XX/2025
SCALE: AS NOTED
DESIGNED BY: RAS
DRAWN BY: RAS
CHECKED BY:

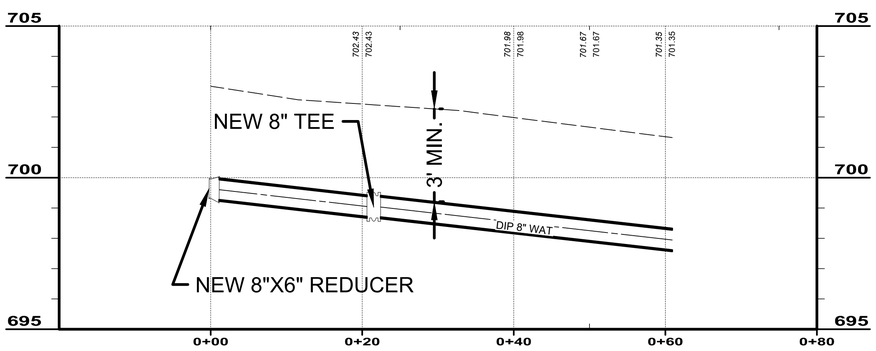
AJ JOLLY PARK WATER CONNECT
CITY OF ALEXANDRIA
CAMPBELL COUNTY, KENTUCKY

PART A PLAN VIEW

PROJECT NO. 32415
DISCIPLINE
SHEET NAME
SHEET 5 OF 8



NEW IRRIGATION CONNECTION



NEW IRRIGATION CONNECTION

NOTE:

COST OF DISPOSAL AND REMOVAL OF EXISTING PIPE, AS NECESSARY, BEING REPLACED SHALL BE INCLUDED IN BASE LF COST OF REPLACEMENT PIPE.

DISRUPTION TO SERVICE OF GOLF COURSE CLUBHOUSE SHALL BE KEPT TO LESS THAN 48 HOURS. DISRUPTION SHALL BE COORDINATED WITH CAMPBELL COUNTY AND NKWD AS REQUIRED.

STATE OF KENTUCKY
ROBERT KEVIN SEITZINGER, II
33805
LICENSED PROFESSIONAL ENGINEER

verdantas

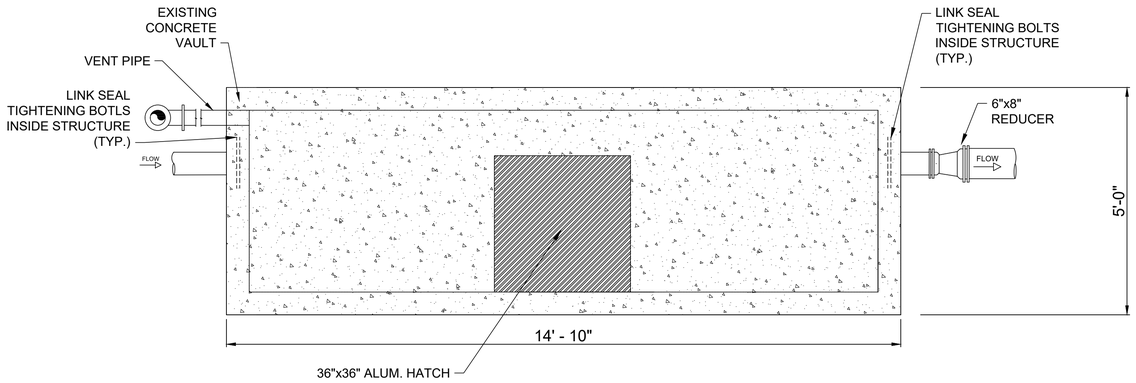
NO	REVISION	DATE

ISSUED FOR: BID
ISSUE DATE: X/XX/2025
SCALE: AS NOTED
DESIGNED BY: RAS
DRAWN BY: RAS
CHECKED BY:

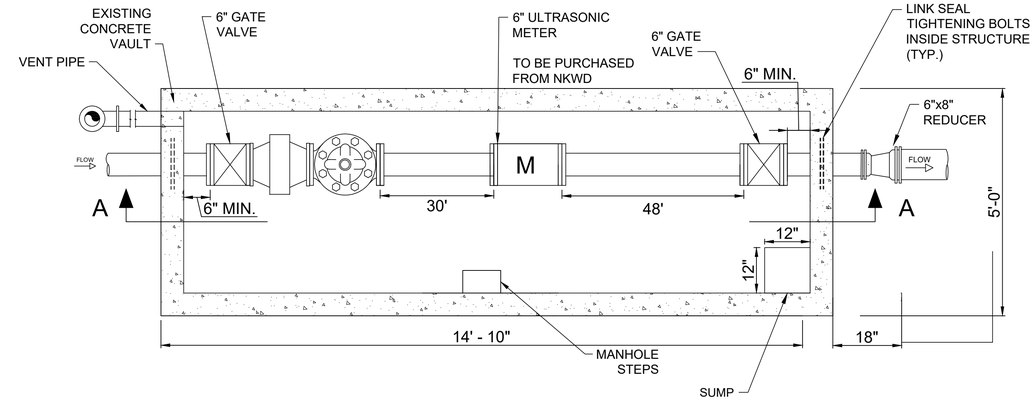
AJ JOLLY PARK WATER CONNECT
CITY OF ALEXANDRIA
CAMPBELL COUNTY, KENTUCKY

PART A PROFILE VIEW

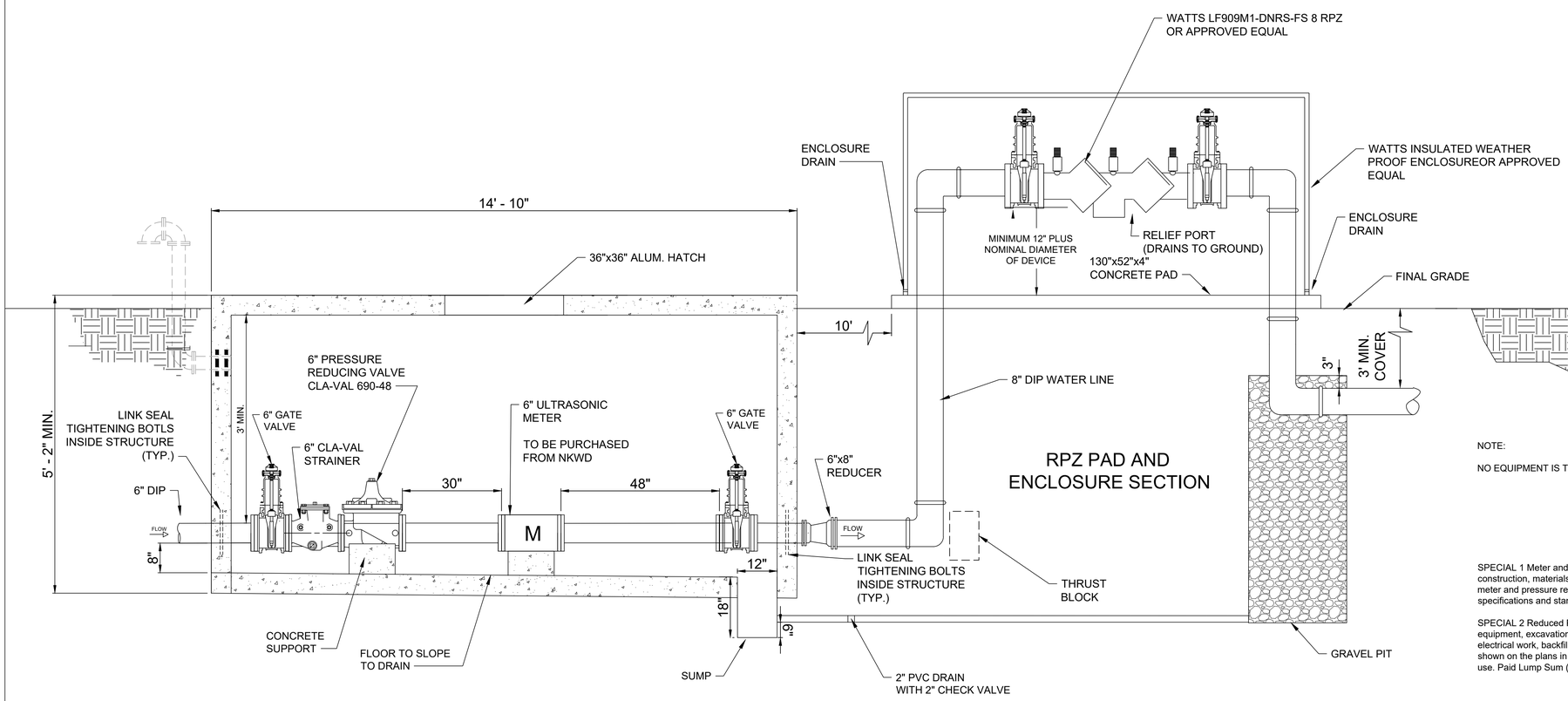
PROJECT NO. 32415
DISCIPLINE
SHEET NAME
SHEET 6 OF 8



METER/PRV VAULT PLAN (TOP VIEW)



METER/PRV VAULT PLAN
(INNER VAULT TOP VIEW)



METER/ PRV VAULT SECTION A-A

NOTE:

NO EQUIPMENT IS TO BE SUBMERSED FOR AN EXTENDED PERIOD OF TIME

Measurement and Payment Project Special
Addition to NKWD Section 01025 Measurement and Payment

SPECIAL 1 Meter and Pressure Reducing Valve Vault. Includes the labor, equipment, excavation, concrete vault construction, materials, pipe work, electrical work, backfill, restoration, etc. required to install the specified valve meter and pressure reducing valve vault at the location shown on the plans in accordance with the plans, specifications and standard drawings complete and ready for use. Paid Lump Sum (LS)

SPECIAL 2 Reduced Pressure Zone (R.P.Z) Backflow Preventer, Enclosure, and Concrete Pad. Includes the labor, equipment, excavation, concrete pad construction to enclosure manufacturer standards, materials, pipe work, electrical work, backfill, restoration, etc. required to install the specified R.P.Z., enclosure, and pad at the location shown on the plans in accordance with the plans, specifications, and standard drawings complete and ready for use. Paid Lump Sum (LS)

20 ' 0 ' 20 '
SCALE: 1" = 20 '

STATE OF KENTUCKY
ROBERT KEVIN SEITZINGER, II
33805
LICENSED PROFESSIONAL ENGINEER

verdantas

NO	REVISION	DATE

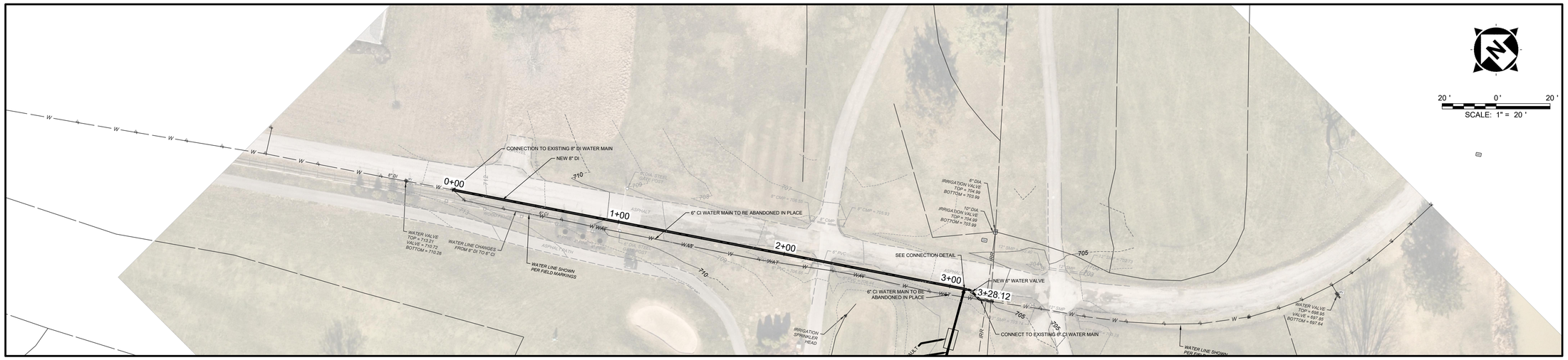
ISSUED FOR: BID
ISSUE DATE: X/XX/2025
SCALE: AS NOTED
DESIGNED BY: RAS
DRAWN BY: RAS
CHECKED BY:

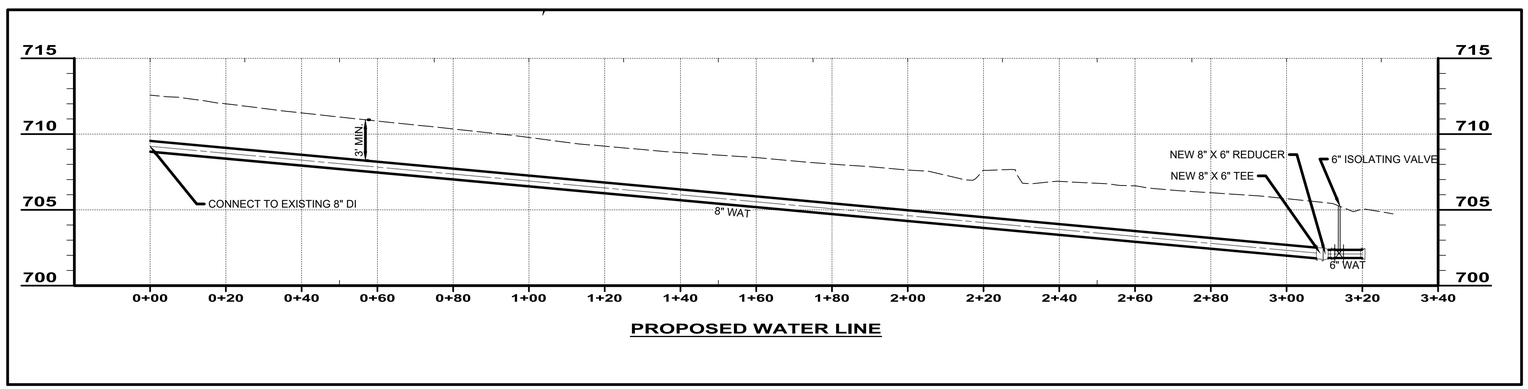
AJ JOLLY PARK WATER CONNECT
CITY OF ALEXANDRIA
CAMPBELL COUNTY, KENTUCKY

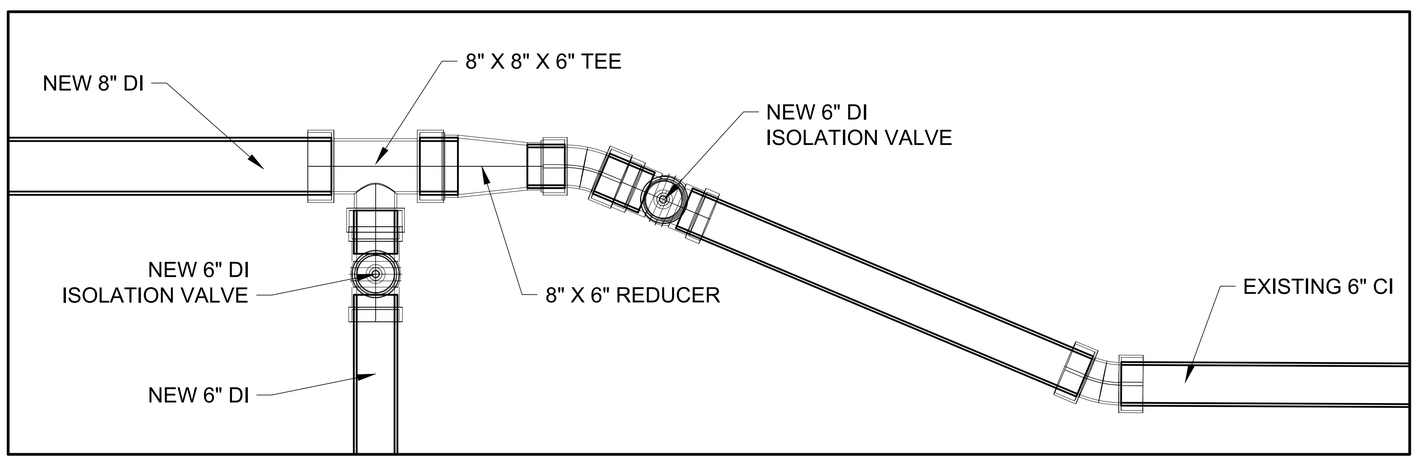
PART A
VAULT PLAN AND SECTION

PROJECT NO.
32415
DISCIPLINE
SHEET NAME
SHEET 7 OF 8

Z:\PROJECT FILES\CA-DZ\CAMPBELLCOUNTY\32415 - CAMPBELL COUNTY AJ JOLLY H20 CONNECT\CAD\DWG\CAMPBELL COUNTY DWG FOUND HERE\DWG\BASE\C_242719- VALVE VAULT.DWG - VAULT PLAN - 7/30/2025 8:51:41 AM - REID SCOTT







NOTE:

EXISTING 6" TO BE ABANDONED IN PLACE FROM NEW CONNECTION TO RECONNECTION POINT. COST OF ABANDONMENT AND REMOVAL AS NECESSARY SHALL BE INCLUDED IN BASE COST OF LF OF REPLACEMENT PIPE.

DISRUPTION TO SERVICE OF GOLF COURSE CLUBHOUSE SHALL BE KEPT TO LESS THAN 48 HOURS. DISRUPTION SHALL BE COORDINATED WITH CAMPBELL COUNTY AND NKWD AS REQUIRED.

STATE OF KENTUCKY
ROBERT KEVIN SEITZINGER, II
33805
LICENSED PROFESSIONAL ENGINEER

verdantas

NO	REVISION	DATE

ISSUED FOR: BID
ISSUE DATE: X/XX/2025
SCALE: AS NOTED
DESIGNED BY: RAS
DRAWN BY: RAS
CHECKED BY:

AJ JOLLY PARK WATER CONNECT
CITY OF ALEXANDRIA
CAMPBELL COUNTY, KENTUCKY

PART B
EAGLE VIEW PLAN AND PROFILE

PROJECT NO. 32415
DISCIPLINE
SHEET NAME
SHEET 8 OF 8