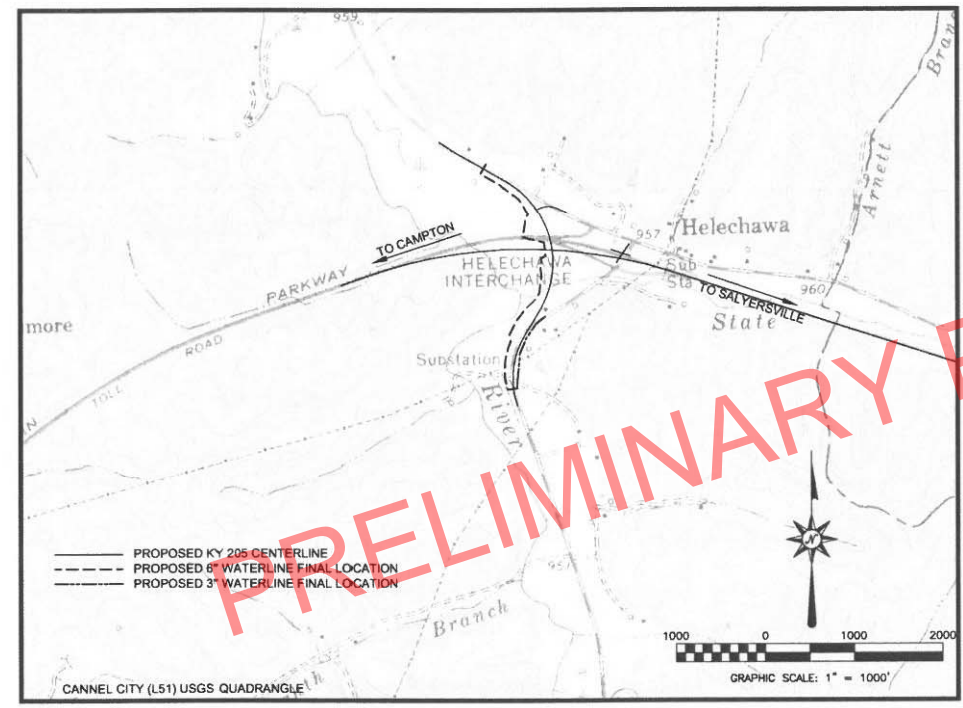




CITY OF CAMPTON

WOLFE COUNTY, KENTUCKY MOUNTAIN PARKWAY (KY 9009) IMPROVEMENTS FROM KY 205 INTERCHANGE TO MILE POINT 59.2 10-126.70

WATERLINE RECONSTRUCTION



VICINITY MAP
SCALE: 1" = 1000'

PRELIMINARY PLANS NOT FOR CONSTRUCTION

SHEET INDEX

- U-0 INDEX SHEET, QUANTITIES AND NOTES
- U-1 INTERCHANGE OVERVIEW
- U-2 MTN. PARKWAY € STA. 135+00 TO STA. 144+00
- U-3 KY205 € STA. 144+00 TO STA. 155+00
- U-4 KY205 € STA. 329+50 TO STA. 339+00
- U-5 KY205 € STA. 339+00 TO STA. 354+90
- U-6 MTN. PARKWAY CROSSING - PLAN & PROFILE
- U-7 STANDARD DETAILS
- U-8 STANDARD DETAILS

**RELEASED FOR:
BIDDING (UPDATE 9/2016)**



CALL THE KENTUCKY ONE CALL BEFORE DIGGING:
KENTUCKY UNDERGROUND PROTECTION, INC. 1-800-752-6007
 A FEDERAL LAW NOW IN EFFECT STATES THAT ANY PERSON WHO ENGAGES IN EXCAVATION ACTIVITIES WITHOUT FIRST USING AN AVAILABLE ONE-CALL NOTIFICATION SYSTEM TO DETERMINE LOCATIONS OF UNDERGROUND FACILITIES; OR WITHOUT HEEDING LOCATION INFORMATION OR MARKINGS AND SUBSEQUENTLY DAMAGES A PIPELINE FACILITY SHALL BE SUBJECT TO A FINE, IMPRISONMENT, OR BOTH. THE LAW ALSO STATES THAT OSHA MAY BE NOTIFIED OF ANY ACCIDENT CAUSED BY AN EXCAVATOR.
NATIONAL ONE-CALL REFERRAL NUMBER 1-800-258-0808

ELECTRIC
 American Electric Power
 1 Riverside Plaza
 Columbus, OH 43215
 (614) 716-1000
 (800) 277-2177
 Cliff Freeman (606) 437-3167
 Tim Hall (606) 437-3189

ELECTRIC
 Licking Valley RECC
 271 Main Street
 PO Box 605
 West Liberty, KY 41472
 Kerry Howard, General Manager
 Wes McKinney, Engineer Department
 (606) 743-3179

UTILITY COMPANIES

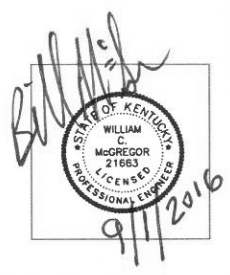
GAS
 Jefferson Gas, LLC
 220 Lexington Green Circle
 Suite 130
 Lexington, KY 40503
 (859) 245-8193
 Jack Banks (606) 693-0084

TELEPHONE
 Mountain Telephone
 405 Main Street
 PO Box 399
 West Liberty, KY 41472
 (800) 939-3121
 Rick Pelfrey (606) 743-3121

WATER
 Wolfe County Water
 Campton City Hall
 698 Main Street
 Campton, KY 41301
 (606) 668-3574
 Mark Wireman



nesbitt engineering, inc.
 227 N. Upper Street
 Lexington, Kentucky
 40507-1016
 Tel (859) 233-3111
 Fax (859) 259-2717



GENERAL UTILITY NOTES AND INSTRUCTIONS APPLICABLE TO ALL UTILITY WORK MADE A PART OF THE ROAD CONSTRUCTION CONTRACT

The contractor should be aware the following utility notes and Standard KYTC Utility Bid Item Descriptions shall supersede, replace and take precedence over any and all conflicting information that may be contained in utility owner specifications contained in the contract, on plans supplied by the utility owner, or any utility owner specifications or information externally referenced in this contract.

Where information may have been omitted from these notes, bid item descriptions, utility owner supplied specifications or plans; the KYTC Standard Specifications For Road and Bridge Construction shall be referenced.

PROTECTION OF EXISTING UTILITIES

The existing utilities shown on the plans are shown as best known at the time the plans were developed and are to be used as a guide only by the Contractor. The Contractor shall use all means at his disposal to accurately locate all existing utilities, whether shown on the plans or not, prior to excavation. The contractor shall protect these utilities during construction. Any damage to existing utilities during construction that are shown or not shown on the plans shall be repaired at the Contractor's expense.

PREQUALIFIED UTILITY CONTRACTORS

Some utility owners may require contractors that perform relocation work on their respective facilities as a part of the road contract be prequalified or preapproved by the utility owner. Those utility owners with a prequalification or preapproval requirement are as follows:

No contractors are required to be prequalified or preapproved by the utility owner(s) to perform utility relocation work under this contract, however the following Qualifications and Warranty will apply to the waterline work.

- A. The utility contractor shall be qualified to perform the utility work in accordance with the utility plans and specifications. The contractor shall have a history of utility work with at least five (5) years utility installation experience. The utility contractor shall be knowledgeable of utility installation methods and requirements. The utility contractor shall be able to supply three (3) references of prior utility construction projects if requested by the owner.
- B. The utility contractor shall provide a written warranty to the utility owner for a period of one (1) year from the date of the contractor's final payment.

The bidding contractor needs to review the above list and look for a list of preapproved or prequalified contractors at the end of these general notes as identified above before bidding. Only contractors shown to be prequalified or preapproved by the utility owner on the following list(s) will be allowed to work on that utility as a part of this contract.

Any utility contractor that is not listed as prequalified or preapproved when the project is advertised for bid and wishes to be added must make request through the KYTC Contract Procurement website. The request should be made at least one week prior to the bidding deadline to allow for review and posting on the KYTC Contract Procurement website. A contractor is only considered prequalified or preapproved when published on the KYTC Contract Procurement website. Contractors that contact the utility owner directly for preapproval or prequalification without contacting KYTC will not be considered for preapproval or prequalification for this contract. Contractors that are not prequalified or preapproved through KYTC before the bidding deadline will not be considered for prequalification or preapproval after bidding.

CONTRACT ADMINISTRATION RELATIVE TO UTILITY WORK

All utility work is being performed as a part of a contract administered by KYTC; there is not a direct contract between the utility contractor and utility owner. The KYTC Section Engineer is ultimately responsible for the administration of the road contract and any utility work included in the contract.

SUBMITTALS AND CORRESPONDENCE

All submittals and correspondence of any kind relative to utility work included in the road contract shall be directed to the KYTC Section Engineer, a copy of which may also be supplied to the utility owner by the contractor to expedite handling of items like material approvals and shop drawings. All approvals and correspondence generated by the utility owner shall be directed to the KYTC Section Engineer. The KYTC Section Engineer will relay any approvals or correspondence to the utility contractor as appropriate. At no time shall any direct communication between the utility owner and utility contractor without the communication flowing through the KYTC Section Engineer be considered official and binding under the contract.

ENGINEER

Where the word "Engineer" appears in any utility owner specifications included in this proposal, utility owner specifications included to be a part of this contract by reference or on the utility relocation plans, it shall be understood the "Engineer" is the Kentucky Transportation Cabinet (KYTC) Section Engineer or designated representative and the utility owner engineer or designated representative jointly. Both engineers must mutually agree upon all decisions made with regard to the utility construction. The Transportation Cabinet, Section Engineer shall make all final decisions in all disputes.

INSPECTOR OR RESIDENT PROJECT REPRESENTATIVE

Where the word "Inspector" or "Resident Project Representative" appears in the utility specifications included in this proposal, utility owner specifications included to be a part of this contract by reference or on the utility relocation plans, it shall be understood the "Inspector" or "Resident Project Representative" is the utility owner inspector and KYTC inspector jointly. The Transportation Cabinet, Section Engineer shall make all final decisions in all disputes.

NOTICE TO UTILITY OWNERS OF THE START OF WORK

One month before construction is to start on a utility, the utility contractor shall make notice to the KYTC Section Engineer and the utility owner of when work on a utility is anticipated to start. The utility contractor shall again make confirmation notice to the KYTC Section Engineer and the utility owner one week before utility work is to actually start.

UTILITY SHUTDOWNS

The Contractor shall not shut down any active and in-service mains, utility lines or services for any reason unless specifically given permission to do so by the utility owner. The opening and closing of valves and operating of other active utility facilities for main, utility line or utility service shut downs are to be performed by the utility owner unless specific permission is given to the contractor by the owner to make shutdowns. If and when the utility owner gives the contractor permission to shutdown mains, utility lines or utility services, the contractor shall do so following the rules, procedures and regulations of the utility owner. Any permission given by the utility owner to the contractor to shutdown active and in-service mains, utility lines or services shall be communicated to the KYTC Section Engineer by the utility owner that such permission has been given.

Notice to customers of utility shut downs is sometimes required to be performed by the utility contractor. The contractor may be required; but, is not limited to, making notice to utility customers in a certain minimum amount of time in advance of the shut down and by whatever means of communication specified by the utility owner. The means of communication to the customer may be, but is not limited to, a door hanger, notice by newspaper ad, telephone contact or any combination of communication methods deemed necessary, customary and appropriate by the utility owner. The contractor should refer to the utility owner specifications for requirements on customer notice.

Any procedure the utility owner may require the contractor to perform by specification or plan note and any expense the contractor may incur to comply with the utility owner's shut down procedure and notice to customers shall be considered an incidental expense to the utility construction.

STATIONS AND DISTANCES

All stations and distances, when indicated for utility placement in utility relocation plans or specifications, are approximate; therefore, some minor adjustment may have to be made during construction to fit actual field conditions. Any changes in excess of 6 inches of plan location shall be reviewed and approved jointly by the KYTC Section Engineer or designated representative and utility owner engineer or designated representative. Changes in location without prior approval shall be remedied by the contractor at his own expense if the unauthorized change creates an unacceptable conflict or condition.

RESTORATION

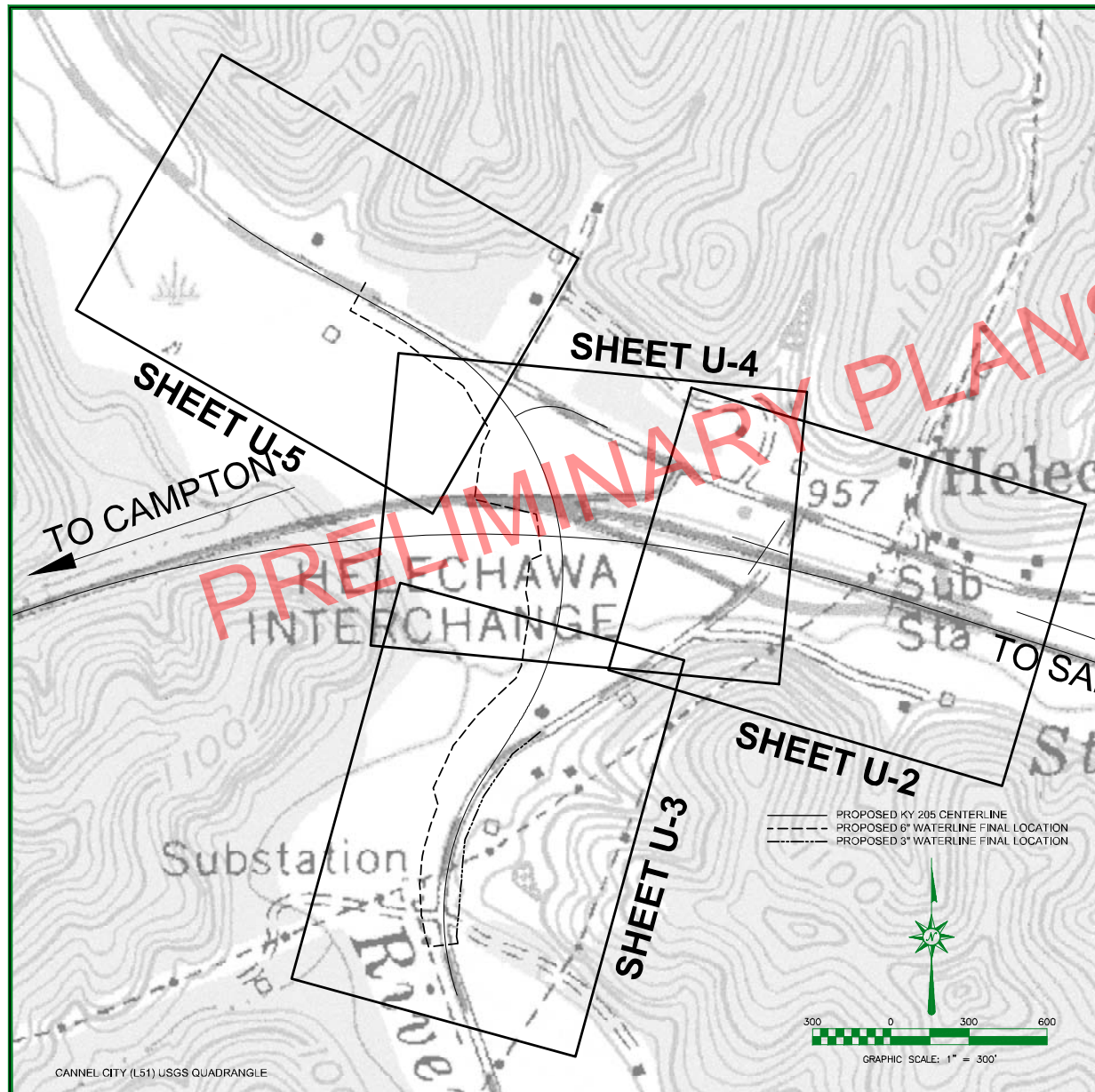
Temporary and permanent restoration of paved or stone areas due to utility construction shall be considered incidental to the utility work. No separate payment will be made for this work. Temporary restoration shall be as directed by the KYTC Section Engineer. Permanent restoration shall be "in-kind" as existing. Restoration of seed and sod areas will be measured and paid under the appropriate seeding and sodding bid items established in the contract for roadway work.

| Bid Item Code | PHASE 1 - Description | Unit | U-2 Quantity | U-3 Quantity | U-4 Quantity | U-5 Quantity | Phase Totals |
|---------------|---|------|--------------|--------------|--------------|--------------|--------------|
| 14059 | 6" SDR17 PVC Waterline | LF | 1,227 | 247 | | | 1,474 |
| 14004 | 8" HDPE DR9 Waterline, Directional Drill | LF | 120 | | | | 120 |
| 14008 | 10.75" Sch. 40 Steel Casing Pipe, Bore & Jack | LF | 454 | | | | 454 |
| 14014 | 10.75" Sch. 40 Steel Casing Pipe, Open Cut | LF | 20 | | | | 20 |
| 14001 | 3/4" Combination Air Release Valve Assembly | EA | 1 | | | | 1 |
| 14105 | 6" D.I.M.J. Gate Valve & Box | EA | 1 | | | | 1 |
| 14028 | Water Meter | EA | 1 | | | | 1 |
| 14094 | 6" Waterline Tie-in | EA | 2 | 2 | | | 4 |
| 14003 | Cap Existing Main | EA | 2 | 2 | | | 4 |

| Bid Item Code | PHASE 2 - Description | Unit | U-2 Quantity | U-3 Quantity | U-4 Quantity | U-5 Quantity | Phase Totals |
|---------------|---|------|--------------|--------------|--------------|--------------|--------------|
| 14059 | 6" SDR17 PVC Waterline | LF | 1,452 | 1,293 | 553 | | 3,298 |
| 14004 | 8" HDPE DR9 Waterline, Directional Drill | LF | | 120 | | | 120 |
| 14008 | 10.75" Sch. 40 Steel Casing Pipe, Bore & Jack | LF | | 100 | 240 | 95 | 435 |
| 14014 | 10.75" Sch. 40 Steel Casing Pipe, Open Cut | LF | | | 20 | | 20 |
| 14022 | Flush Hydrant Assembly, Type 1 | EA | 1 | | | | 1 |
| 14105 | 6" D.I.M.J. Gate Valve & Box | EA | 1 | 4 | 2 | 3 | 10 |
| 14144 | Waterline Marker | EA | 2 | 2 | 2 | 0 | 6 |
| 14028 | Water Meter | EA | 1 | | | | 1 |
| 14094 | 6" Waterline Tie-in | EA | 1 | | | 1 | 2 |

| Bid Item Code | PHASE 3 - Description | Unit | U-2 Quantity | U-3 Quantity | U-4 Quantity | U-5 Quantity | Phase Totals |
|---------------|---|------|--------------|--------------|--------------|--------------|--------------|
| 14057 | 3" SDR17 PVC Waterline | LF | | 912 | | | 912 |
| 14001 | 3/4" Combination Air Release Valve Assembly | EA | | 1 | | | 1 |
| 14014 | 12" PVC Casing Pipe, Open Cut | LF | | 20 | | | 20 |
| 14022 | Flush Hydrant Assembly, Type 1 | EA | | 1 | | | 1 |
| 14103 | 3" D.I.M.J. Gate Valve & Box | EA | | 1 | | | 1 |
| 14030 | Water Meter Relocate | EA | 2 | | | | 2 |
| 14092 | 3" Waterline Tie-in | EA | 1 | | | | 1 |
| 14003 | Cap Existing Main | EA | 1 | | | | 1 |

| Bid Item Code | PHASE 4 - Description | Unit | U-2 Quantity | U-3 Quantity | U-4 Quantity | U-5 Quantity | Phase Totals |
|---------------|--------------------------------|------|--------------|--------------|--------------|--------------|--------------|
| 14059 | 6" SDR17 PVC Waterline | LF | | 576 | | | 576 |
| 14022 | Flush Hydrant Assembly, Type 1 | EA | | 1 | | | 1 |
| 14003 | Cap Existing Main | EA | | 2 | | | 2 |



GENERAL NOTES:

1. PHASE 1 WATERLINE CONSTRUCTION; CONSTRUCT WATERLINES PRIOR TO THE MOUNTAIN PARKWAY IMPROVEMENTS.
2. PHASE 2 WATERLINE CONSTRUCTION; CONSTRUCT BEFORE MAINTENANCE OF TRAFFIC PHASE 2.
3. PHASE 3 WATERLINE CONSTRUCTION; CONSTRUCT BEFORE MOT PHASE 2 AND AFTER PHASE 2 WATERLINE CONSTRUCTION IS COMPLETE.
4. PHASE 4 WATERLINE CONSTRUCTION; CONSTRUCT AFTER MAINTENANCE OF TRAFFIC PHASE 3B.
5. PROFILES HAVE BEEN PROVIDED FOR PHASE 1 WATERLINE CONSTRUCTION. NO PROFILES HAVE BEEN PROVIDED FOR OTHER PHASES OF WATERLINE CONSTRUCTION.
6. UNLESS OTHERWISE NOTED WATERLINES SHALL HAVE A MINIMUM OF 42" COVER FROM FINAL GRADE TO TOP OF PIPE AND A MINIMUM OF 42" COVER IN AREAS LOCATED UNDERNEATH DITCHES AND ROAD CROSSINGS.
7. WHEN PHASE 2 WATERLINE CONSTRUCTION IS OPERATIONAL, PORTIONS OF PHASE 1 WATERLINE WILL BE ABANDONED. ADDITIONAL PORTIONS OF PHASE 1 WATERLINE WILL BE ABANDONED AFTER PHASE 3.
8. ALL CHANGES IN EITHER VERTICAL OR HORIZONTAL DIRECTION, NEW VALVES, FITTINGS, HYDRANTS, ETC. TO HAVE MECHANICAL RESTRAINED JOINTS.
9. DIRECTIONAL DRILL SITES ARE LISTED IN LINEAR FEET. CONTRACTOR SHALL INSPECT EACH SITE FOR SLOPE DIFFERENCES TO DETERMINE ACTUAL PIPE LENGTHS REQUIRED.
10. ALL DUCTILE IRON PIPE SHALL HAVE NITRILE GASKETS WHERE IT IS WITHIN 200 FEET OF AN EXISTING OR ABANDONED FUEL STORAGE TANK.
11. WATERLINE MARKERS ARE NOT SHOWN ON THE PLAN SHEETS AND WILL BE LOCATED IN THE FIELD FOR BEST VISIBILITY. THEY ARE TO BE SPACED NO MORE THAN EVERY 2,000 FEET ALONG THE PERMANENT WATERLINE ROUTE AND AT EACH OF THE MAIN WATERLINE ROAD CROSSINGS.
12. ALL SERVICE LINE SHALL BE HDPE CLASS 200.
13. 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.
14. 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.
15. THE CONTRACTOR MUST CONTACT ALL UTILITY OWNERS AND HAVE THEM FIELD LOCATE THEIR EXISTING LINES PRIOR TO ANY CONSTRUCTION ACTIVITY.
16. 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 CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND CONFIRM ALL DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES AND TOPOGRAPHY IN THE FIELD NECESSARY FOR HIS CONSTRUCTION OPERATION.
17. 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.
18. 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.
19. 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.

ADDITIONAL NOTES:

1. PROPERTY AND ALL BASE FIELD INFORMATION WAS PROVIDED BY THE KENTUCKY TRANSPORTATION CABINET AND HAS NOT BEEN FIELD VERIFIED BY NESBITT ENGINEERING PERSONNEL.
2. EXISTING UTILITIES SHOWN ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE UTILITY LOCATIONS AS NECESSARY. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PROPER SPACING BETWEEN UTILITIES.
3. PURSUANT TO KENTUCKY TRANSPORTATION CABINET (KTC) ENCROACHMENT PERMIT, PERMANENT SURFACE APPURTENANCES (GATE VALVES, HYDRANTS, ETC.) SHALL NOT BE LOCATED IN THE DITCH LINES. PERMANENT SURFACE APPURTENANCES SHALL BE LOCATED AT A MINIMUM OF BACK OF DITCH OR TOE OF SLOPE (TYP.). WATERLINE SHALL BE A MINIMUM OF 5 FEET OFF OF EDGE OF PAVEMENT (TYP.)
5. UNLESS OTHERWISE NOTED WATERLINES SHALL HAVE A MINIMUM OF 42" COVER FROM FINAL GRADE TO TOP OF PIPE AND A MINIMUM OF 42" COVER IN AREAS LOCATED UNDERNEATH DITCHES AND ROAD CROSSINGS. THERE 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.
6. WATERLINES SHOULD BE INSTALLED BEHIND ALL CULVERTS, HEADWALLS, OR ANY DRAINAGE STRUCTURE (TYP.). IF THE CONTRACTOR DESIRES TO INSTALL WATERLINE ABOVE DRAINAGE STRUCTURE(S), CONTRACTOR SHALL REQUEST A WAIVER FROM KTC PERSONNEL.
7. ROCK BLASTING: THERE SHALL BE NO BLASTING WITHIN STATE RIGHT-OF-WAY WITHOUT WRITTEN CONSENT FROM THE KENTUCKY TRANSPORTATION CABINET.
8. PROTECTION OF EXISTING PAVING: 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.
9. 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.
10. 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.
11. 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.
12. 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.

SHEET INDEX

SCALE: 1" = 300'

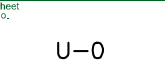
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LAST SAVED: 9/1/2016 14:45:1

9/2016: UPDATE PHASE 1 LINE LOCATION TO REFLECT CHANGES IN KY205 CONSTRUCTION

CITY OF CAMPTON WATERWORKS
WOLFE COUNTY, KENTUCKY
RECONSTRUCT AND WIDEN KY 205 10-8101.00
WATERLINE RELOCATION



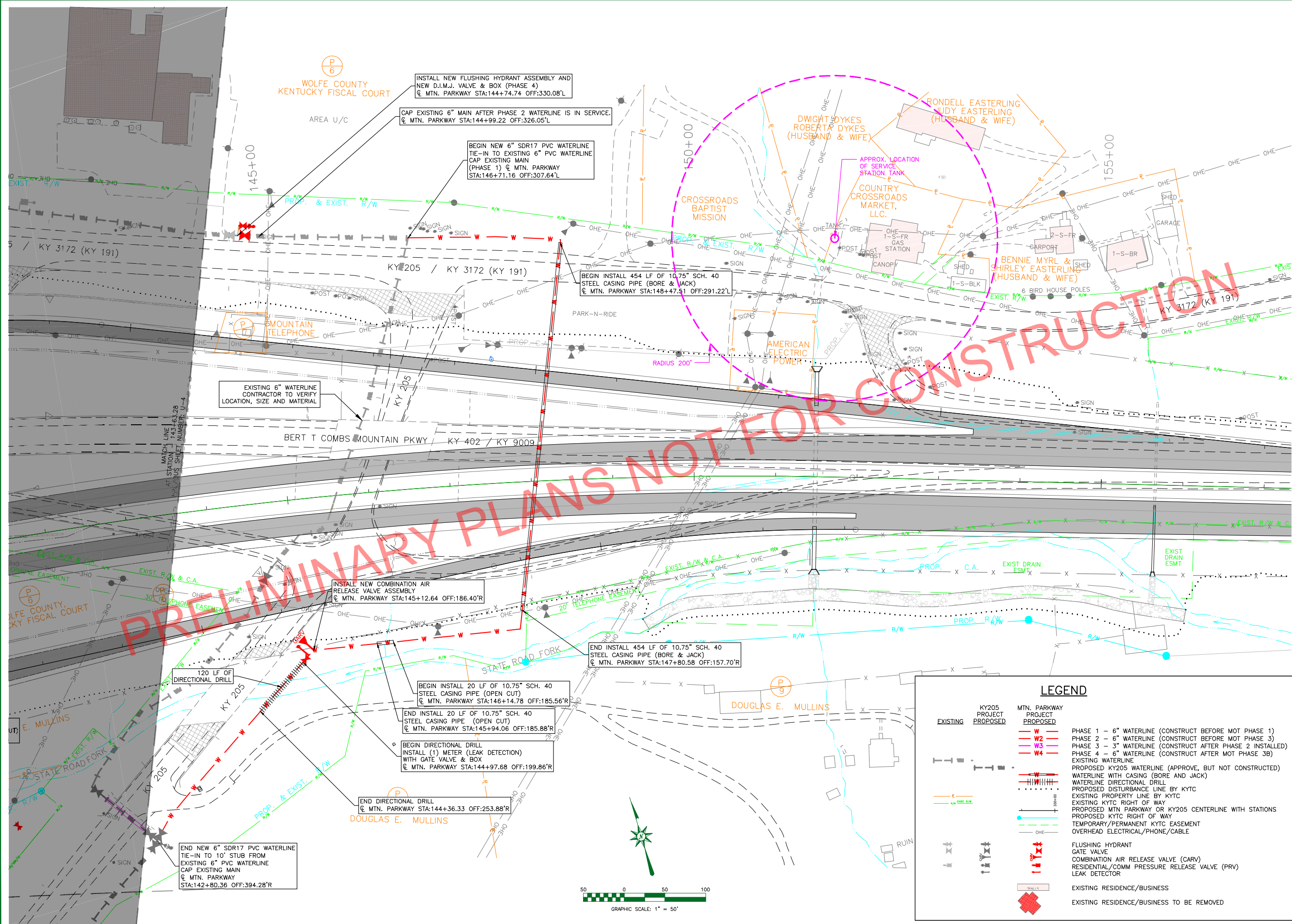
nesbitt engineering, inc.
PROVIDING PROVEN SOLUTIONS SINCE 1976
CITY OF CAMPTON WATERWORKS
KY 205 WATERLINE RELOCATION
JOB NO.: 1062.08
DATE: 09/01/16
SCALE: 1" = 1000'
SHEET NO.: 2-27-15
PROJECT: A:\Campton\0602-08\001\001\03_Design\0602-08-09-01\RI_Cover.dwg



U-0



nesbitt engineering, inc.
 PROVIDING PROFESSIONAL SOLUTIONS SINCE 1976
 CITY OF CAMPTON
 MTN. PARKWAY & KY 205 WATERLINE RELOCATION
 PROJECT NO. 1062.09
 SHEET NO. 1062.09
 DATE: OCT. 1, 2015
 DRAWN BY: BMC
 CHECKED BY: [Signature]



PRELIMINARY PLANS NOT FOR CONSTRUCTION

LEGEND

| | | | |
|--|--|--|--|
| | EXISTING WATERLINE | | PROPOSED WATERLINE |
| | EXISTING WATERLINE WITH CASING (BORE AND JACK) | | PROPOSED WATERLINE WITH CASING (BORE AND JACK) |
| | WATERLINE DIRECTIONAL DRILL | | PROPOSED DIRECTIONAL DRILL |
| | PROPOSED DISTURBANCE LINE BY KYTC | | EXISTING PROPERTY LINE BY KYTC |
| | EXISTING KYTC RIGHT OF WAY | | PROPOSED KYTC RIGHT OF WAY |
| | TEMPORARY/PERMANENT KYTC EASEMENT | | OVERHEAD ELECTRICAL/PHONE/CABLE |
| | FLUSHING HYDRANT | | GATE VALVE |
| | COMBINATION AIR RELEASE VALVE (CARV) | | RESIDENTIAL/COMM PRESSURE RELEASE VALVE (PRV) |
| | LEAK DETECTOR | | EXISTING RESIDENCE/BUSINESS |
| | EXISTING RESIDENCE/BUSINESS TO BE REMOVED | | |

END NEW 6" SDR17 PVC WATERLINE TIE-IN TO 10' STUB FROM EXISTING 6" PVC WATERLINE CAP EXISTING MAIN @ MTN. PARKWAY STA:142+80.36 OFF:394.28'R

END DIRECTIONAL DRILL @ MTN. PARKWAY STA:144+36.33 OFF:253.88'R

BEGIN DIRECTIONAL DRILL INSTALL (1) METER (LEAK DETECTION) WITH GATE VALVE & BOX @ MTN. PARKWAY STA:144+97.68 OFF:199.86'R

END INSTALL 20 LF OF 10.75" SCH. 40 STEEL CASING PIPE (OPEN CUT) @ MTN. PARKWAY STA:145+94.06 OFF:185.88'R

INSTALL NEW COMBINATION AIR RELEASE VALVE ASSEMBLY @ MTN. PARKWAY STA:145+12.64 OFF:186.40'R

END INSTALL 454 LF OF 10.75" SCH. 40 STEEL CASING PIPE (BORE & JACK) @ MTN. PARKWAY STA:147+80.58 OFF:157.70'R

BEGIN INSTALL 454 LF OF 10.75" SCH. 40 STEEL CASING PIPE (BORE & JACK) @ MTN. PARKWAY STA:148+47.81 OFF:291.22'L

BEGIN NEW 6" SDR17 PVC WATERLINE TIE-IN TO EXISTING 6" PVC WATERLINE CAP EXISTING MAIN (PHASE 1) @ MTN. PARKWAY STA:146+71.16 OFF:307.64'L

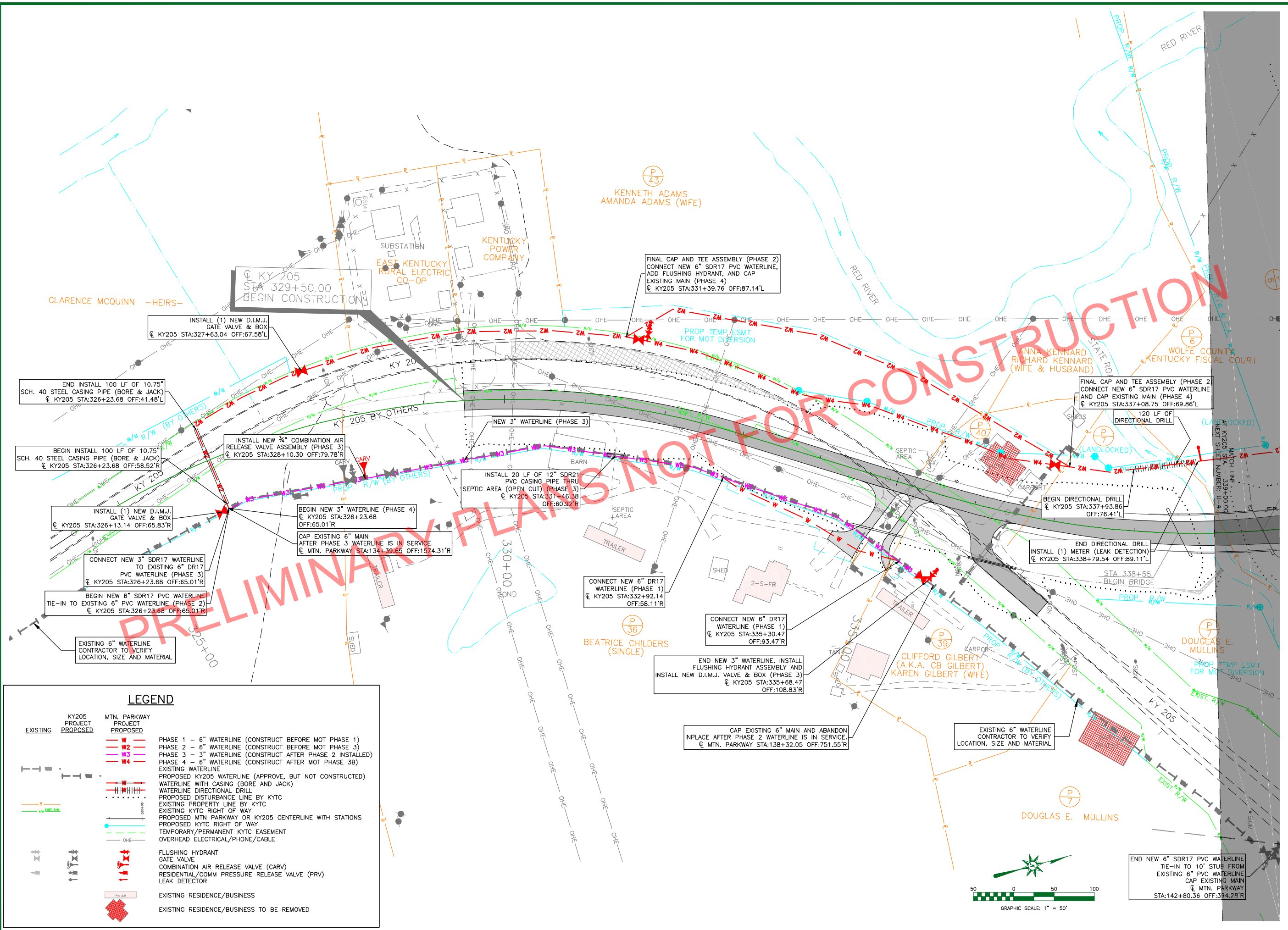
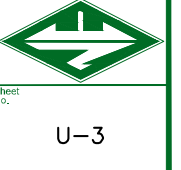
CAP EXISTING 6" MAIN AFTER PHASE 2 WATERLINE IS IN SERVICE. @ MTN. PARKWAY STA:144+99.22 OFF:326.05'L

WOLFE COUNTY KENTUCKY FISCAL COURT AREA U/C

MATCH LINE AT STATION 143+61.28
 RELEVANT SHEET NUMBER U-4

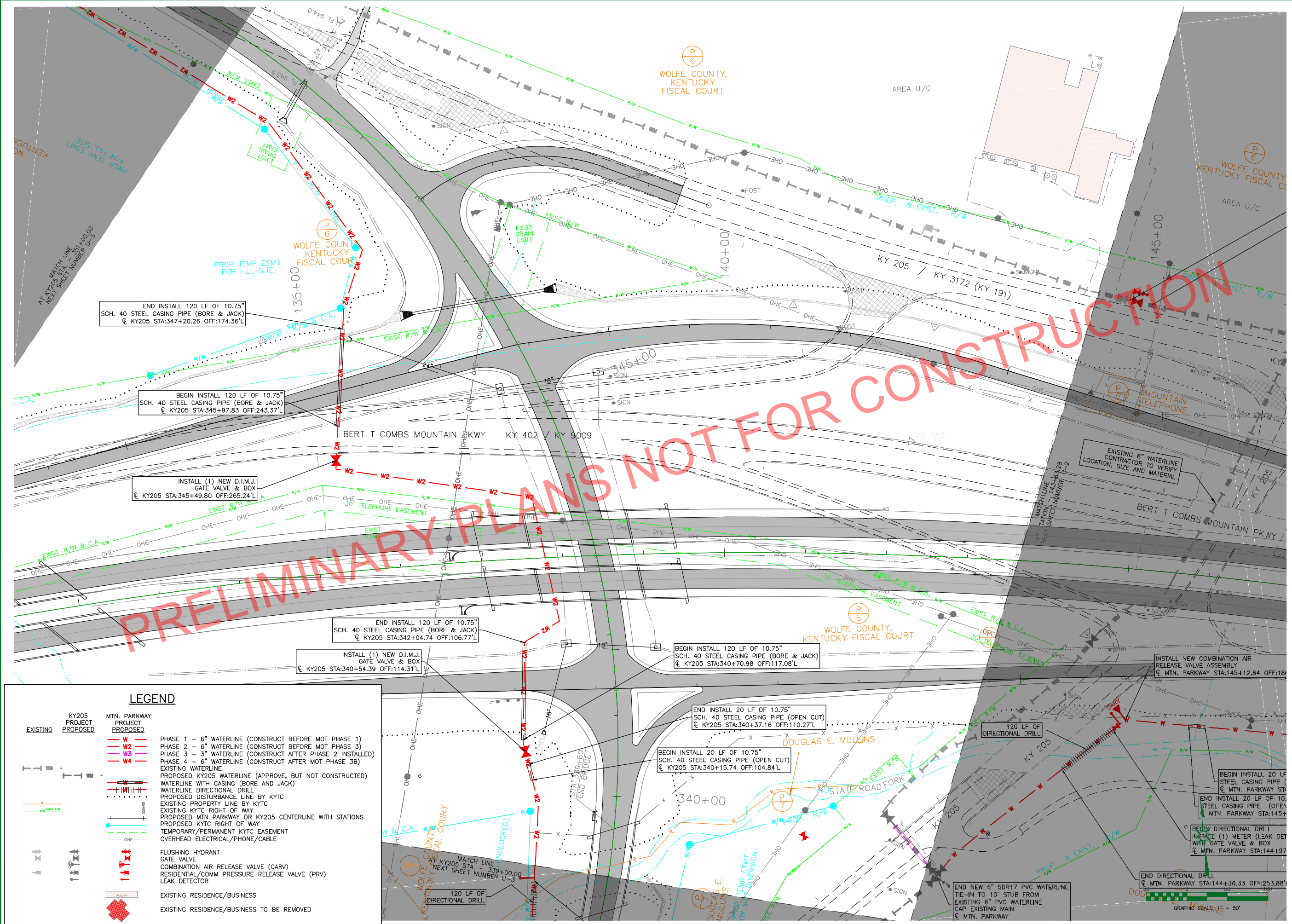


| | |
|---|--------------------|
| nesbitt engineering, inc. | |
| CITY OF CAMPTON MTN. PARKWAY & KY 205 WATERLINE RELOCATION | |
| DATE: OCT. 1, 2015 | SCALE: 1" = 50' |
| DRAWN BY: B.M.C. | CHECKED BY: W.C.M. |
| PROJECT NO.: 1062.09 | DATE: 10/1/15 |



LEGEND

| EXISTING | KY205 PROJECT PROPOSED | MTN. PARKWAY PROJECT PROPOSED | DESCRIPTION |
|----------|------------------------|-------------------------------|--|
| --- | W | W | PHASE 1 - 6" WATERLINE (CONSTRUCT BEFORE MOT PHASE 1) |
| --- | W2 | W2 | PHASE 2 - 6" WATERLINE (CONSTRUCT BEFORE MOT PHASE 3) |
| --- | W3 | W3 | PHASE 3 - 3" WATERLINE (CONSTRUCT AFTER PHASE 2 INSTALLED) |
| --- | W4 | W4 | PHASE 4 - 6" WATERLINE (CONSTRUCT AFTER MOT PHASE 3B) |
| --- | --- | --- | EXISTING WATERLINE |
| --- | --- | --- | PROPOSED KY205 WATERLINE (APPROVE, BUT NOT CONSTRUCTED) |
| --- | --- | --- | WATERLINE WITH CASING (BORE AND JACK) |
| --- | --- | --- | WATERLINE DIRECTIONAL DRILL |
| --- | --- | --- | PROPOSED DISTURBANCE LINE BY KYTC |
| --- | --- | --- | EXISTING PROPERTY LINE BY KYTC |
| --- | --- | --- | EXISTING KYTC RIGHT OF WAY |
| --- | --- | --- | PROPOSED MTN PARKWAY OR KY205 CENTERLINE WITH STATIONS |
| --- | --- | --- | PROPOSED KYTC RIGHT OF WAY |
| --- | --- | --- | TEMPORARY/PERMANENT KYTC EASEMENT |
| --- | --- | --- | OVERHEAD ELECTRICAL/PHONE/CABLE |
| --- | --- | --- | FLUSHING HYDRANT |
| --- | --- | --- | GATE VALVE |
| --- | --- | --- | COMBINATION AIR RELEASE VALVE (CARV) |
| --- | --- | --- | RESIDENTIAL/COMM PRESSURE RELEASE VALVE (PRV) |
| --- | --- | --- | LEAK DETECTOR |
| --- | --- | --- | EXISTING RESIDENCE/BUSINESS |
| --- | --- | --- | EXISTING RESIDENCE/BUSINESS TO BE REMOVED |



END INSTALL 120 LF OF 10.75" SCH. 40 STEEL CASING PIPE (BORE & JACK)
 @ KY205 STA:347+20.26 OFF:174.36'L

BEGIN INSTALL 120 LF OF 10.75" SCH. 40 STEEL CASING PIPE (BORE & JACK)
 @ KY205 STA:345+97.83 OFF:243.37'L

INSTALL (1) NEW D.I.M.J. GATE VALVE & BOX
 @ KY205 STA:345+49.80 OFF:265.24'L

END INSTALL 120 LF OF 10.75" SCH. 40 STEEL CASING PIPE (BORE & JACK)
 @ KY205 STA:342+04.74 OFF:106.77'L

INSTALL (1) NEW D.I.M.J. GATE VALVE & BOX
 @ KY205 STA:340+54.39 OFF:114.31'L

BEGIN INSTALL 120 LF OF 10.75" SCH. 40 STEEL CASING PIPE (BORE & JACK)
 @ KY205 STA:340+70.98 OFF:117.08'L

END INSTALL 20 LF OF 10.75" SCH. 40 STEEL CASING PIPE (OPEN CUT)
 @ KY205 STA:340+37.16 OFF:110.27'L

BEGIN INSTALL 20 LF OF 10.75" SCH. 40 STEEL CASING PIPE (OPEN CUT)
 @ KY205 STA:340+15.74 OFF:104.84'L

INSTALL NEW COMBINATION AIR RELEASE VALVE ASSEMBLY
 @ MTN. PARKWAY STA:145+12.64 OFF:18.00'L

BEGIN INSTALL 20 LF OF 10.75" SCH. 40 STEEL CASING PIPE (OPEN CUT)
 @ MTN. PARKWAY STA:145+00.00 OFF:0.00'L

END INSTALL 20 LF OF 10.75" SCH. 40 STEEL CASING PIPE (OPEN CUT)
 @ MTN. PARKWAY STA:144+97.00 OFF:0.00'L

END DIRECTIONAL DRILL
 @ MTN. PARKWAY STA:144+36.33 OFF:253.88'L

END NEW 6" SDR17 PVC WATERLINE TIE-IN TO 10' STUB FROM EXISTING 6" PVC WATERLINE CAP EXISTING MAIN @ MTN. PARKWAY

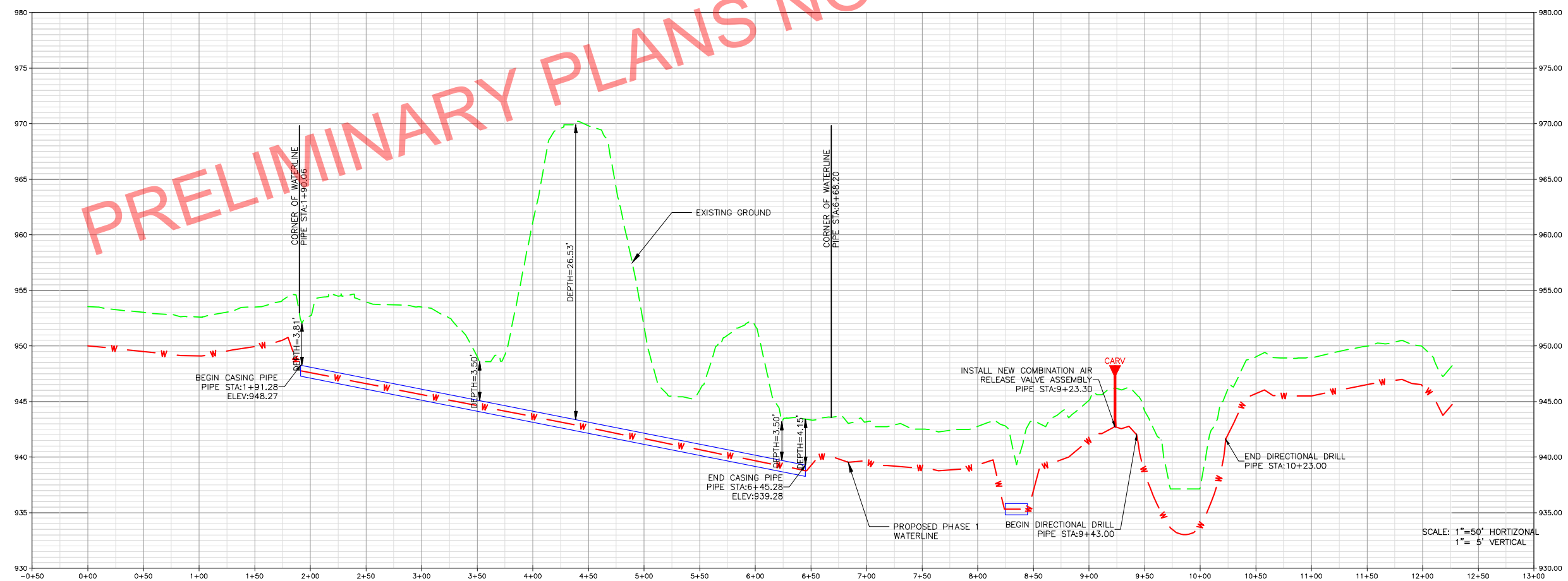
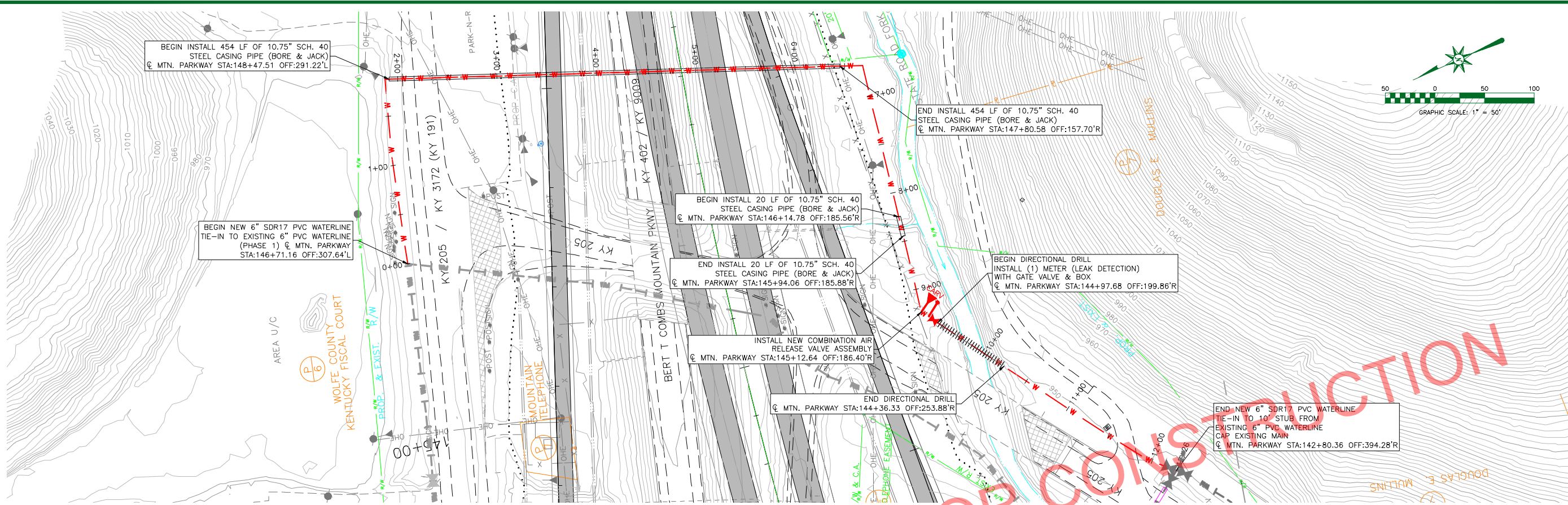
LEGEND

- | | | | |
|--|--|--|---|
| | KY205 PROJECT EXISTING | | MTN. PARKWAY PROJECT PROPOSED |
| | PHASE 1 - 6" WATERLINE (CONSTRUCT BEFORE MOT PHASE 1) | | PHASE 2 - 6" WATERLINE (CONSTRUCT BEFORE MOT PHASE 3) |
| | PHASE 3 - 3" WATERLINE (CONSTRUCT AFTER PHASE 2 INSTALLED) | | PHASE 4 - 6" WATERLINE (CONSTRUCT AFTER MOT PHASE 3B) |
| | EXISTING WATERLINE | | PROPOSED KY205 WATERLINE (APPROVE, BUT NOT CONSTRUCTED) |
| | WATERLINE WITH CASING (BORE AND JACK) | | WATERLINE DIRECTIONAL DRILL |
| | PROPOSED DISTURBANCE LINE BY KYTC | | EXISTING PROPERTY LINE BY KYTC |
| | EXISTING KYTC RIGHT OF WAY | | PROPOSED MTN PARKWAY OR KY205 CENTERLINE WITH STATIONS |
| | PROPOSED KYTC RIGHT OF WAY | | TEMPORARY/PERMANENT KYTC EASEMENT |
| | OHE | | FLUSHING HYDRANT |
| | GATE VALVE | | COMBINATION AIR RELEASE VALVE (CARV) |
| | RESIDENTIAL/COMM PRESSURE RELEASE VALVE (PRV) | | LEAK DETECTOR |
| | EXISTING RESIDENCE/BUSINESS | | EXISTING RESIDENCE/BUSINESS TO BE REMOVED |

CITY OF CAMPTON
 WOLFE COUNTY, KENTUCKY
 RECONSTRUCT MTN. PARKWAY AT KY 205 (10-126.70)
 WATERLINE RELOCATION
 KY205 @ STA. 339+00 TO STA.351+00



nesbitt engineering, inc.
 CITY OF CAMPTON
 WOLFE COUNTY, KENTUCKY
 RECONSTRUCT MTN. PARKWAY AT KY 205 WATERLINE RELOCATION
 DATE: OCT. 1, 2015
 DRAWN BY: BMG
 CHECKED BY: 1062.09
 SCALE: 1" = 50'
 SHEET NO. U-4



PROFILE OF WATERLINE PHASE 1 - MTN. PARKWAY CROSSING

PRELIMINARY PLANS NOT FOR CONSTRUCTION

9/2016: UPDATE PHASE 1 LINE LOCATION TO REFLECT CHANGES IN KY205 CONSTRUCTION

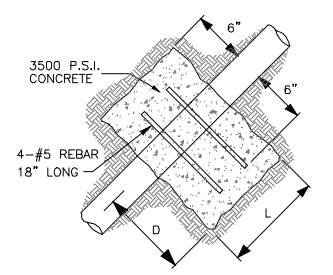
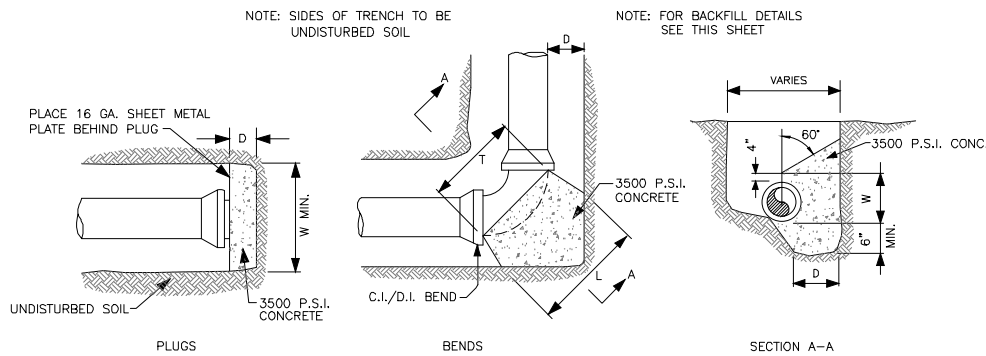
CITY OF CAMPTON
WOLFE COUNTY, KENTUCKY
RECONSTRUCT MTN. PARKWAY AT KY 205 (10-126.70)
WATERLINE RELOCATION

MTN. PARKWAY CROSSING - PLAN & PROFILE



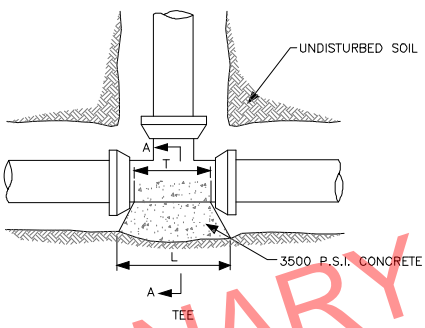
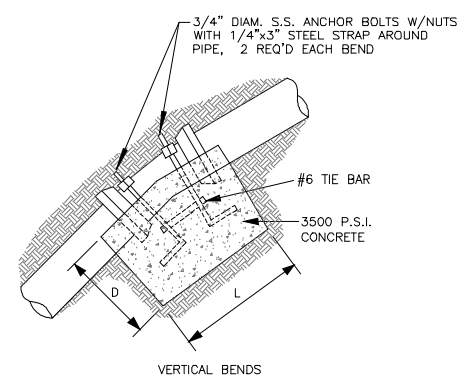
nesbitt engineering, inc.
CITY OF CAMPTON
MTN. PARKWAY & KY 205 WATERLINE RELOCATION
Scale: 1" = 50'
Drawn by: BMC
Date: OCT. 1, 2015
Project No.: 1062.09
Revision: 10/1/15



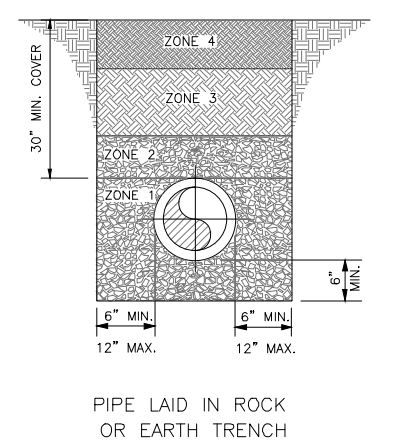
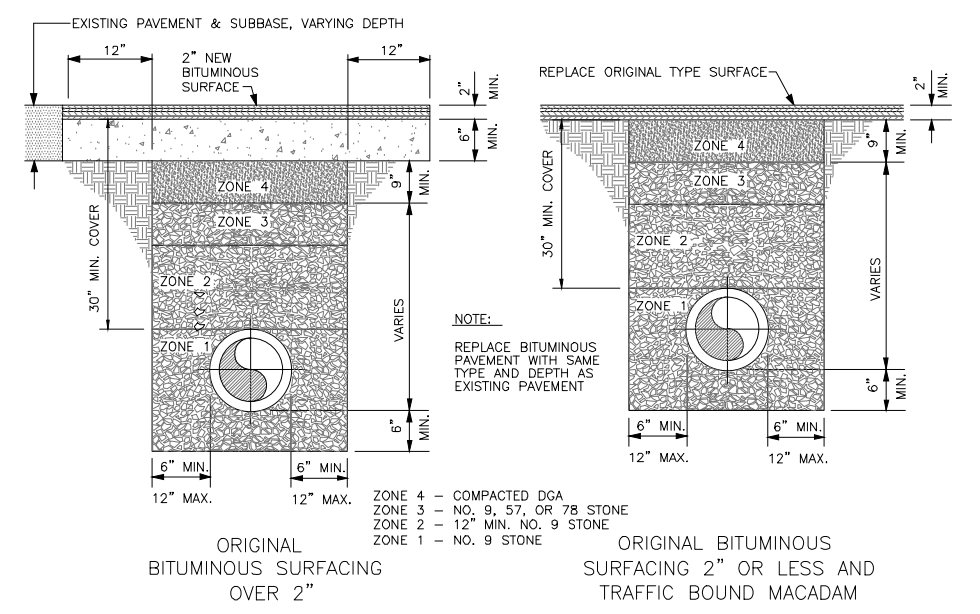


| PIPE SIZE | DIMENSIONS FOR THRUST AND ANCHOR BLOCKS | | | | | | | | | |
|---------------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 3" | 4" | 6" | 8" | 10" | 12" | 14" | 18" | 24" | |
| PLUGS | | | | | | | | | | |
| D | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" |
| L&W | 16" | 18" | 20" | 22" | 24" | 26" | 28" | 32" | 32" | 38" |
| EIGHT BEND (45°), 1/16 BEND (22-1/2°) | | | | | | | | | | |
| D | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" |
| L | 14" | 16" | 18" | 20" | 22" | 24" | 26" | 30" | 30" | 36" |
| T | 12" | 14" | 16" | 18" | 20" | 22" | 24" | 28" | 28" | 34" |
| W | 6" | 8" | 12" | 14" | 16" | 18" | 20" | 24" | 24" | 30" |
| QUARTER BEND (90°) | | | | | | | | | | |
| D | 6" | 6" | 8" | 10" | 10" | 10" | 12" | 12" | 14" | 14" |
| L | 18" | 21" | 24" | 27" | 30" | 33" | 36" | 38" | 44" | 44" |
| T | 12" | 14" | 16" | 18" | 20" | 22" | 24" | 28" | 34" | 34" |
| W | 6" | 8" | 12" | 16" | 18" | 20" | 22" | 28" | 28" | 32" |
| VERTICAL BEND & STRAIGHT PIPE | | | | | | | | | | |
| D | 12" | 12" | 15" | 15" | 18" | 18" | 20" | 24" | 30" | 30" |
| L | 18" | 18" | 24" | 24" | 30" | 30" | 32" | 36" | 42" | 42" |
| T | 12" | 14" | 16" | 18" | 20" | 22" | 24" | 28" | 34" | 34" |

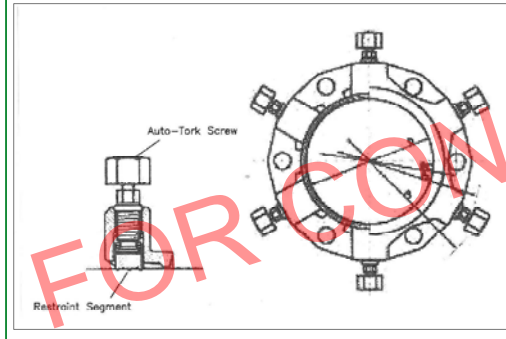
NOTE: SEE PLAN SHEETS FOR SIZE AND LOCATION OF PIPE



CONCRETE ANCHOR BLOCKS

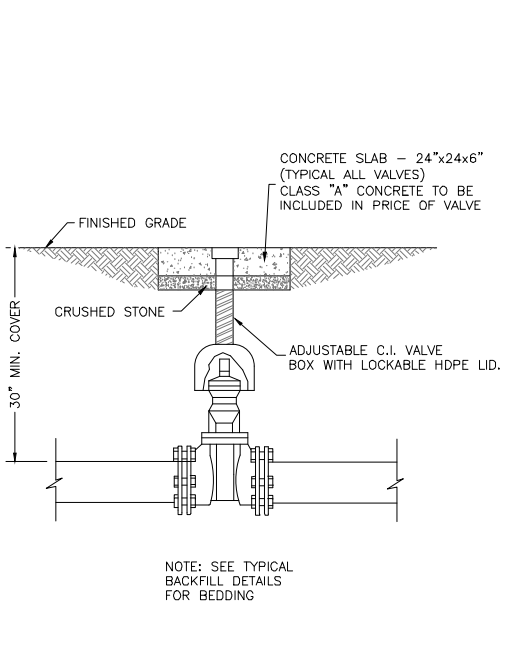
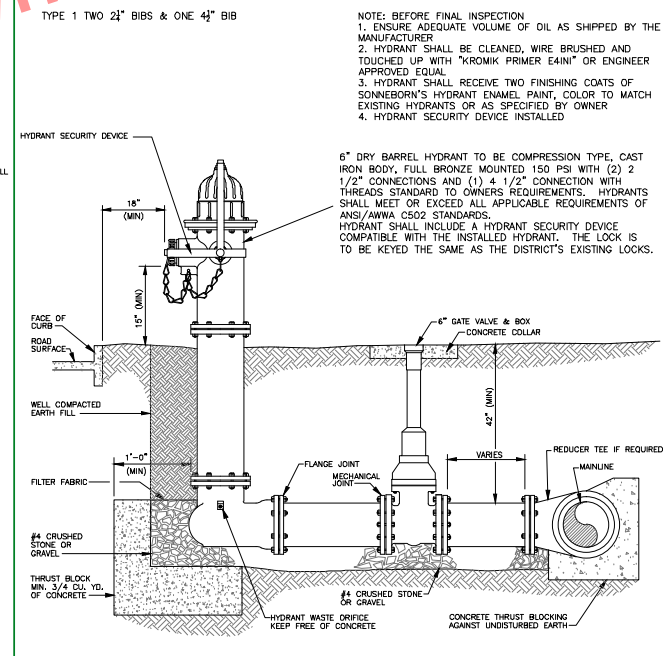
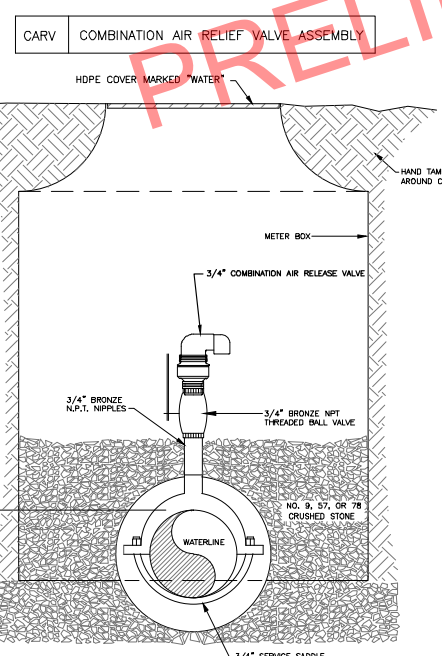


- NOTES:
- COVER UP TO AND INCLUDING ZONE 4 SHALL BE ESTABLISHED BEFORE TRENCH EXCAVATION.
 - ZONE 4 - 6" MIN. CONSOLIDATION EARTH BACKFILL INCLUDING TOPSOIL, NO ROCK ALLOWED.
 - ZONE 3 - CONSOLIDATED SOIL, (NO ROCK GREATER THAN 6" DIAMETER) NO. 9, 57 OR 78 STONE MARKING TAPE SHALL BE PLACED AT THE BOTTOM OF THIS ZONE
 - ZONE 2 - FROM THE SPRINGLINE OF THE PIPE TO A DISTANCE 12 INCHES ABOVE THE PIPE, THE CONTRACTOR SHALL USE THE SAME MATERIAL AS SPECIFIED FOR BEDDING. COMPACTION IS REQUIRED IN AREAS SUBJECT TO TRAFFIC. TRACER WIRE SHALL BE LOCATED ON THE TOP OF THE PIPE.
 - ZONE 1 - BEDDING MATERIAL, IN EARTH EXCAVATION AREAS, SHALL BE CLEAN EARTH, FREE FROM ROCKS, DEBRIS OR OTHER FOREIGN MATERIAL. THE CONTRACTOR SHALL USE CRUSHED STONE, SAND OR GRAVEL AS BEDDING MATERIAL WHERE ROCK EXCAVATION IS ENCOUNTERED.



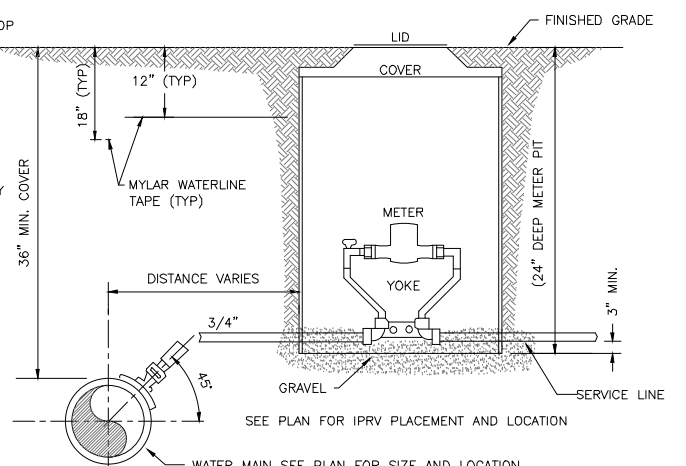
- NOTE:
- MJ RETAINER GLAND JOINT RESTRAINTS SHALL BE USED ALONG WITH CONCRETE ANCHOR BLOCKS AT ALL FITTINGS AS REQUIRED

PRELIMINARY PLANS NOT FOR CONSTRUCTION



METER SETTING

- YOKE-5/8"x3/4" WITH METER STOP
- METER BOX-18"x24" DEEP.
- COVER-18" HDPE LOCKING LID
- METER-SEE SPECIFICATIONS
- INDIVIDUAL PRESSURE REDUCING VALVE (IPRV) (3/4"-1") W/S.S. STRAINER, ADJUSTABLE PRESSURE RANGE 25-75 P.S.I., OUTLET PRESSURE SET AT 50 P.S.I.
- NO PREFAB SETTER TUB ASSEMBLIES WILL BE ALLOWED.
- CONNECT SERVICE LINES DIRECTLY TO SETTER, DO NOT USE NIPPLES ON THE SETTER.



TIE TO WATER MAIN
GROUND KEY CORPORATION STOP (5/8"x3/4") SERVICE SADDLE-BRONZE DOUBLE STRAP

LAST PLOTTED: 9/1/2016
LAST SAVED: 9/1/2016 15:16:39

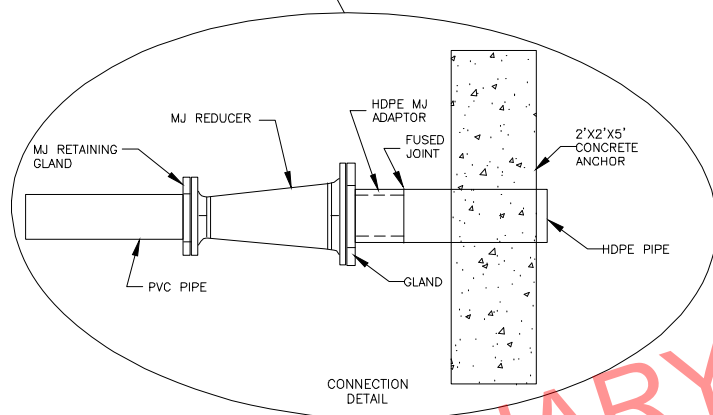
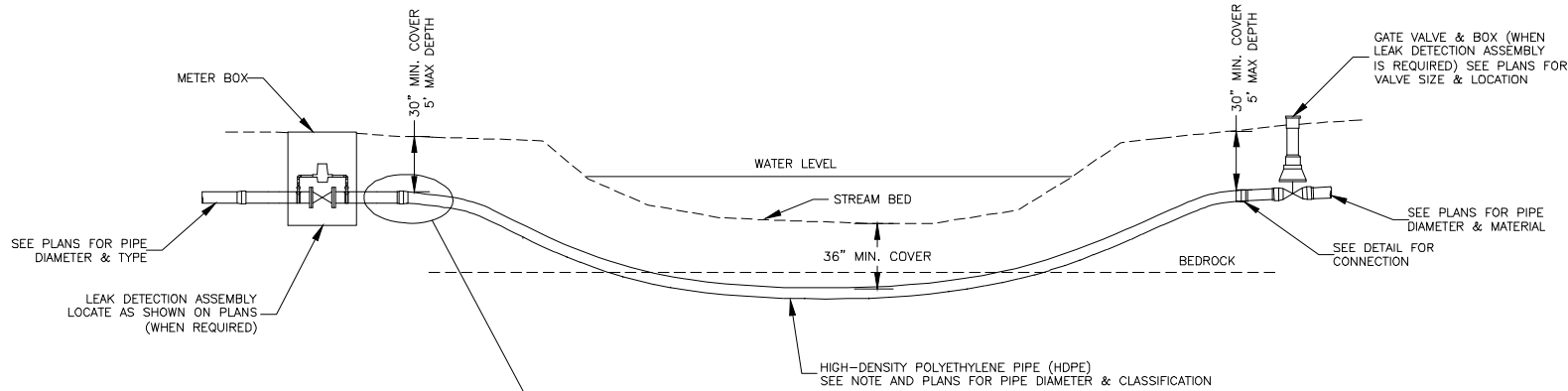
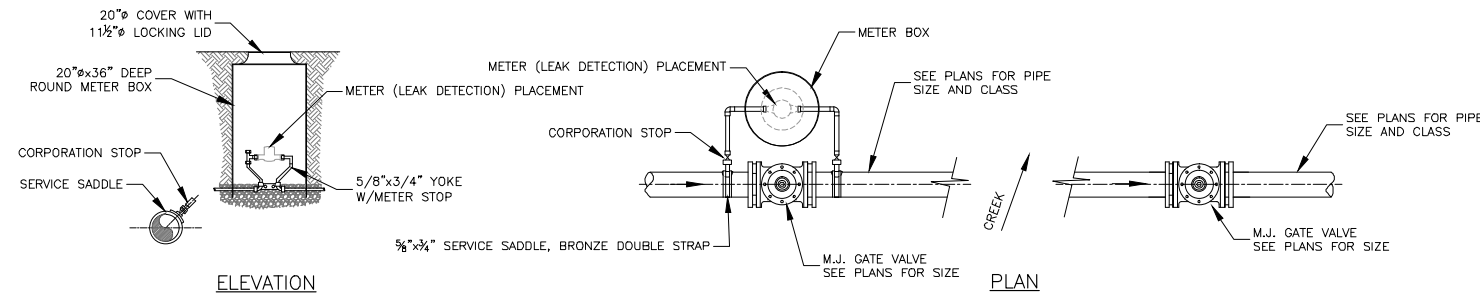
PROJECT: 5/2016: UPDATE PHASE 1 LINE LOCATION TO REFLECT CHANGES IN KY205 CONSTRUCTION

CITY OF CAMPTON WATERWORKS
WOLFE COUNTY, KENTUCKY
RECONSTRUCT MTN. PARKWAY AT KY 205 (10-126.70)
WATERLINE RELOCATION
STANDARD DETAILS



nesbitt engineering, inc.
providing premier solutions since 1976
CITY OF CAMPTON WATERWORKS
MTN. PARKWAY & KY 205 WATERLINE RELOCATION
JOB NO.: 1062.0B
NOT TO SCALE
DATE: 2-27-15
DRAWN BY: JCW
CHECKED BY: [Signature]



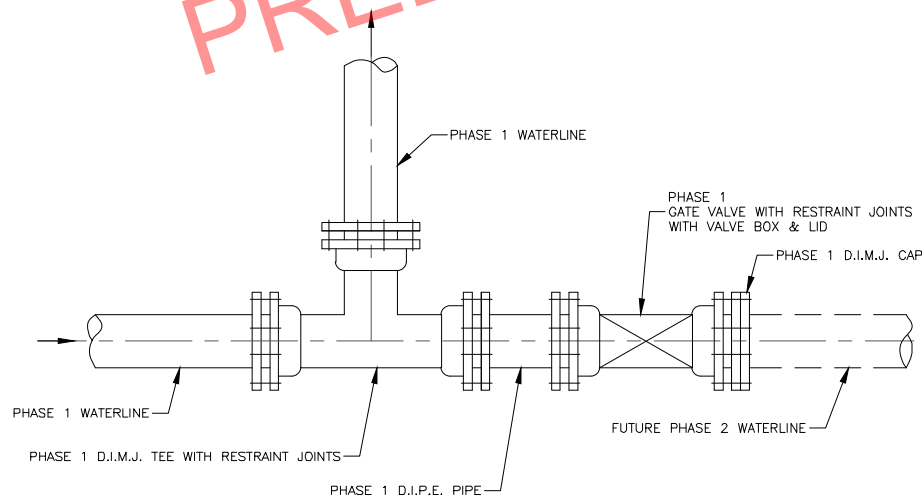


CROSSING NOTES:

1. CONNECTION OF THE HDPE TO THE PVC OR DUCTILE IRON WATERLINE SHALL BE NO DEEPER THAN 5 FEET FROM THE GROUND ELEVATION.
2. DIRECTIONAL BORE SHALL BE MADE IN BED ROCK WITH A MIN DEPTH OF 36".
3. WHEN USING HDPE THE PIPE SHALL BE SIZED UP ONE PIPE SIZE TO ALLOW THE I.D. OF THE HDPE TO EQUAL THE I.D. OF THE CONNECTING WATERLINE.
4. USE ANGLED FITTINGS AS NECESSARY TO MAKE CONNECTION BETWEEN PIPES.

DIRECTIONAL DRILL CREEK CROSSING DETAILS

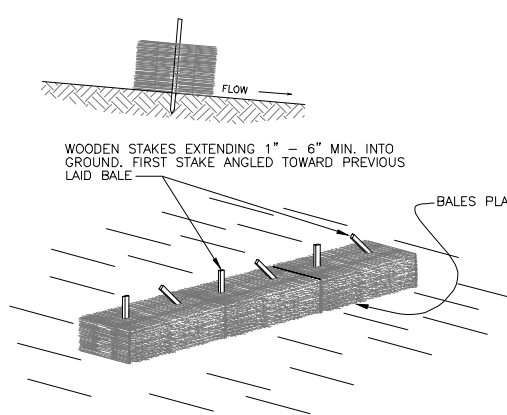
NOT TO SCALE



NOTE: SEE PLANS FOR WATERLINE SIZE.

FINAL CAP & TEE ASSEMBLY

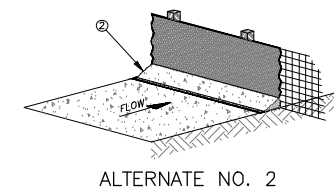
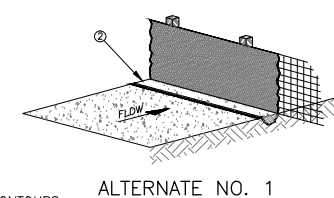
NOT TO SCALE



NOTE: TEMPORARY BALE SILT CHECKS SHALL BE PLACED WHERE NEEDED TO PROVIDE PROPER EROSION CONTROL UNTIL REVEGETATION IS COMPLETED.

STRAW BALE SILT CHECK SEDIMENTATION CONTROL

NOT TO SCALE

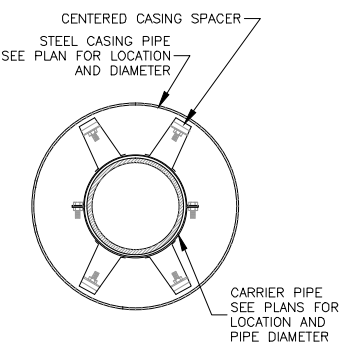


NOTES:

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

SILT CHECK FENCE SEDIMENTATION CONTROL

NOT TO SCALE



NOTE: CARRIER PIPE SHALL BE INSTALLED WITHIN CASING PIPE. SIZE AND SPACING PER MANUFACTURERS RECOMMENDATIONS.

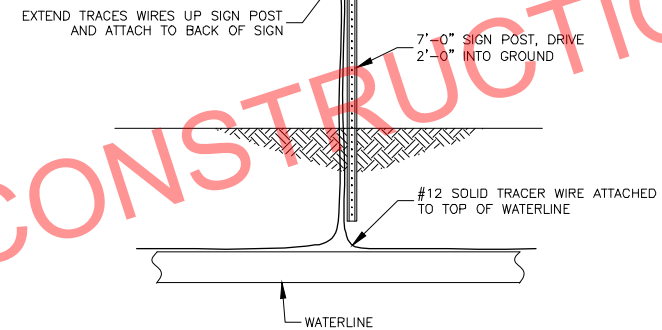
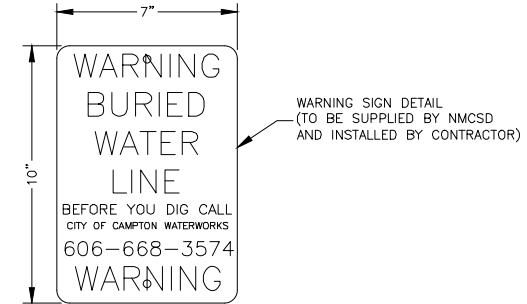
END SEALS SHALL BE PULL-ON OR WRAP-AROUND END SEALS.

CASING SPACER DETAIL

NOT TO SCALE

UNDERGROUND PIPELINE TRACER WIRE AND NON-METALLIC MARKING TAPE

1. A 12 GA. SOLID TRACER WIRE SHALL BE INSTALLED DIRECTLY ON TOP OF ALL WATERLINES, AND ATTACHED TO THE PIPE AT 5 FT INTERVALS WITH DUCT TAPE. MAX. LENGTH OF WIRE SEGMENTS SHALL BE 800 FT. AND SHALL BE TERMINATED AT AN ARV MANHOLE, OR WATERLINE WARNING SIGN. LEAVE 3 FT OF COILED SLACK AT EACH TERMINATION POINT.
2. NON-METALLIC WATERLINE MARKING TAPE SHALL BE INSTALLED AT A MINIMUM OF 18" ABOVE PIPE. TAPE SHALL HAVE AN OVERALL THICKNESS OF 4.0 MILS AND THE WIDTH SHALL NOT BE LESS THAN 3". THE TAPE SHALL BE SAFETY BLUE AND IMPRINTED WITH THE MESSAGE "CAUTION BURIED WATERLINE BELOW".
3. WATERLINE MARKERS SHALL BE INSTALLED EVERY 2,000 FEET AND AT EACH SIDE OF ROAD CROSSINGS.
4. BOTH TRACER WIRE OR MARKING TAPE AND WARNING SIGN ARE TO BE INCLUDED IN THE CONSTRUCTION COST OF THE WATERLINE PIPE.



WATERLINE MARKER WITH TRACER WIRE

NOT TO SCALE

PRELIMINARY PLANS NOT FOR CONSTRUCTION

