

GENERAL NOTES

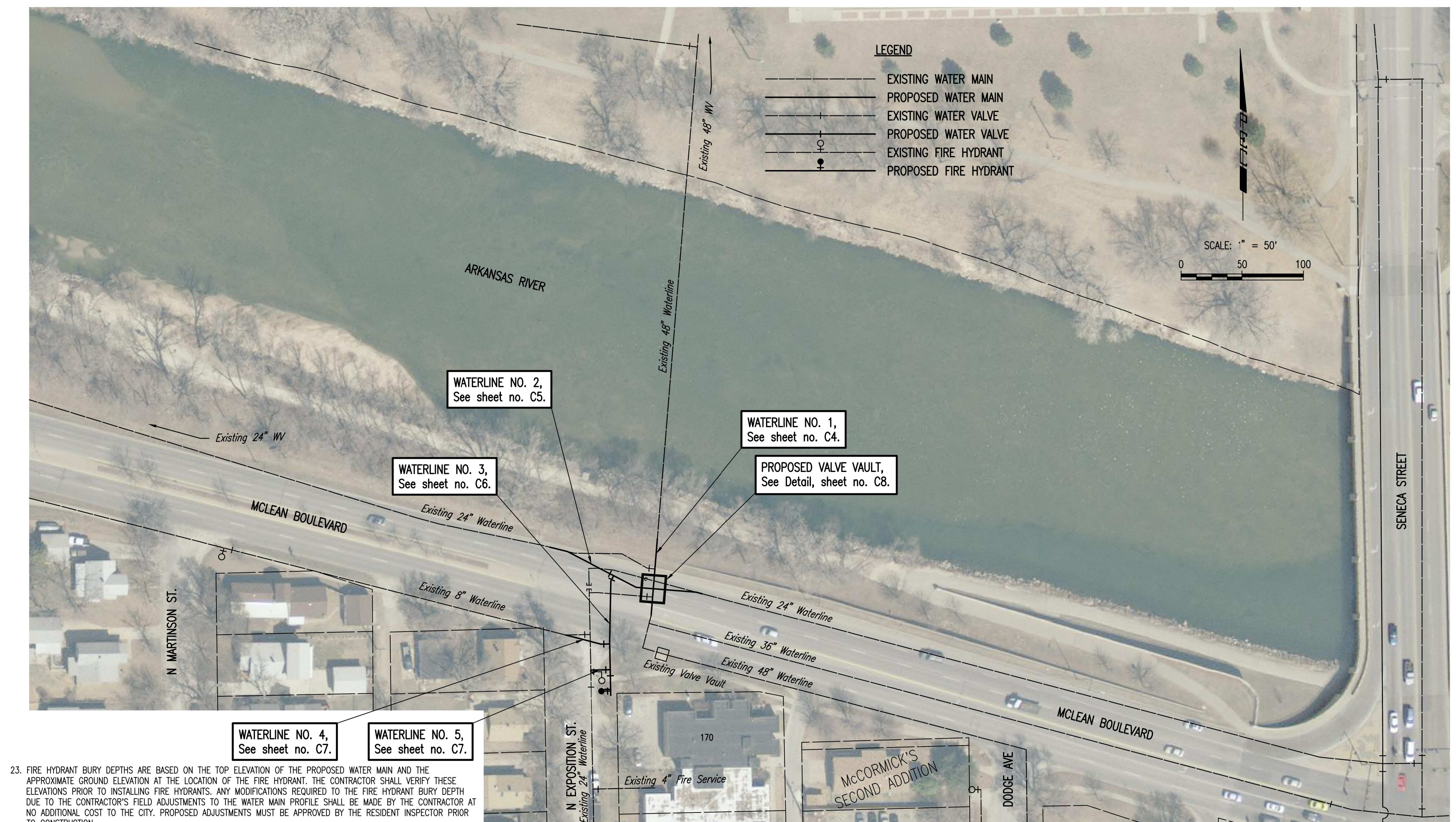
- ALL CONSTRUCTION AND MATERIALS TO COMPLY WITH CITY OF WICHITA STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT THEY WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED. UPON AWARD OF THE CONTRACT THE CONTRACTOR WILL NOT BE GRANTED ANY ADDITIONAL COMPENSATION WITH REGARDS TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE SITE.
- AT LEAST 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT 1-316-687-2470 OR 811 TO REQUEST THE LOCAL UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA.
- THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

EMERGENCY DISPATCH	911
AT&T	800-246-8464
CITY OF WICHITA WATER & SEWER	316-219-8921
CITY OF WICHITA STORMWATER	316-268-4090
CITY OF WICHITA TRAFFIC	316-268-4034
BLACK HILLS ENERGY	800-694-8989
COX COMMUNICATIONS	888-249-3530
KANSAS GAS SERVICE	888-482-4950
WESTAR ENERGY	800-544-4857

- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION AT THE CONTRACTORS EXPENSE
- ALL ELEVATIONS SHOWN ARE NAVD88 DATUM. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL RE-ESTABLISH CONTROL POINTS AND BENCH MARKS AND VERIFY THEIR ACCURACY.
- EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE DRAWINGS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL HAVE ALL BURIED LINES LOCATED AND FLAGGED IN THE FIELD PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND REVIEW ALL BURIED LINES LOCATED TO DETERMINE IF CONFLICTS EXIST. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES. ANY LINES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY THEIR CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS. ALL COSTS FOR THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO "SITE RESTORATION"
- EASEMENTS AND RIGHT-OF-WAY PROVIDED BY THE OWNER FOR THE PROJECT ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF ANY ADDITIONAL TEMPORARY EASEMENTS OR RIGHT-OF-WAY DESIRED TO USE IN COMPLETING THE WORK.
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES INCLUDING ANY TREES REMOVED, TREE TRIMMINGS, AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL ALSO BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE, AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS MAY REQUIRE ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED DISPOSAL LOCATION.
- THE CONTRACTOR SHALL AVOID REMOVAL OR TRIMMING OF ANY TREES OR SHRUBS WHERE POSSIBLE. TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE. THE COST FOR ANY NECESSARY TREE TRIMMING, CLEARING AND/OR GRUBBING SHALL BE SUBSIDIARY TO "SITE CLEARING". FULL TREE REMOVAL SHALL BE NOTED ON THE PLANS AND SHALL BE BID AS "TREE REMOVED, LARGE", "TREE REMOVED, SMALL", OR "TREE ROW REMOVED".
- THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, AND BANKS TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE. WHERE EXISTING ENTRANCE PIPE, DRAINAGE PIPE, SIGNS, FENCES, IRRIGATION, LANDSCAPING, ETC., CONFLICT WITH THE PROPOSED WORK HEREIN, THEY SHALL BE REMOVED AND REPLACED OR RESET, UNLESS OTHERWISE NOTED ON THE DRAWINGS. THE REPLACEMENT OF ALL THE AFOREMENTIONED ITEMS, INCLUDING SEEDING, FERTILIZER, AND MULCHING SHALL BE CONSIDERED SUBSIDIARY TO "SITE RESTORATION".
- THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL THROUGH THE COMPLETION OF THIS PROJECT. INSTALLATION OF THESE EROSION CONTROL DEVICES DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION. THE FOLLOWING QUANTITIES ARE ESTIMATED, AND SHOULD BE CONSIDERED THE MINIMUM EFFORT REQUIRED.

SILT FENCE BARRIER 125 L.F.  
CONSTRUCTION ENTRANCE 1 EACH  
INLET PROTECTION 2 EACH

- THE CONTRACTOR SHALL TAKE CARE TO PREVENT SILT AND DEBRIS FROM ENTERING ANY STORM DRAINAGE SYSTEM DURING CONSTRUCTION. PIPES OR STRUCTURES WHICH CONTAIN MATERIALS FROM THE CONTRACTORS ACTIVITIES SHALL BE THOROUGHLY CLEANED BY THE CONTRACTOR, AT THEIR OWN EXPENSE, PRIOR TO THE FINAL INSPECTION.
- ALL LAWN/TURF AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE RESTORED WITH THE SAME GRASS/SOD AS EXISTING. SOD SHALL BE USED ON THE SOUTH SIDE OF MCLEAN BOULEVARD AND SEED SHALL BE USED ON THE NORTH SIDE OF MCLEAN BOULEVARD. RESTORATION OF DISTURBED AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP SOIL PREPARATION, SEEDING, MULCHING, AND/OR RE-SEEDING. ALL SEEDING/SODDING WORK SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS AND THE CITY OF WICHITA ADMINISTRATIVE REGULATION NO. AR6.5 WHICH GOVERNS CLEANUP AND RESTORATION OR REPLACEMENT FOLLOWING CONSTRUCTION. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO "SITE RESTORATION".
- THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WITH TEMPORARY RYE GRASS. RYE GRASS SEED SHALL BE PLANTED AT A MINIMUM RATE OF SIX (6) POUNDS PER ONE THOUSAND (1,000) SQUARE FEET. THIS TEMPORARY SEEDING MAY BE OMITTED ONLY IF PERMANENT SEEDING/SODDING IS APPLIED. TEMPORARY SEEDING OR PERMANENT SEEDING/SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED. ALL COSTS FOR TEMPORARY RYE GRASS SEEDING SHALL BE CONSIDERED SUBSIDIARY TO "SITE RESTORATION".
- THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION, TYPE, SIZE, ACTIVE STATUS, PIPE SLOPE, AND CLASS OF EXISTING WATERLINES PRIOR TO MAKING CONNECTIONS. EXISTING WATERLINE LOCATIONS AS SHOWN ON THE DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL MAKE ADJUSTMENTS AS REQUIRED. PROVISION AND INSTALLATION OF PIPE ADAPTORS, SHORT SECTION OF PIPE, AND COUPLERS SHALL BE SUBSIDIARY TO THE PRICE BID FOR PIPE IN PLACE.
- THE CONTRACTOR MUST SCHEDULE THE CONNECTIONS TO THE EXISTING WATER MAINS WITH THE CITY SUCH THAT THERE IS MINIMUM DISRUPTION TO THE CITY.
- CONTRACTOR SHALL PROVIDE MATERIALS AS NECESSARY FOR TEMPORARY BLOW OFF OF WATERLINE FOR CONNECTIONS TO THE EXISTING WATERLINE. WATERLINE MATERIALS AT TIE-INS SHALL BE CONSTRUCTED WITH CLEAN, SWABBED PIPE AND FLUSHED UPON COMPLETION OF TIE-INS.
- WATERLINES SHALL HAVE A MINIMUM DEPTH OF BURY OF 42 INCHES, UNLESS SHOWN OTHERWISE.
- ALL TRENCHING AND BACKFILLING SHALL BE TYPE I OR III UNLESS NOTED OTHERWISE ON THE DRAWINGS.



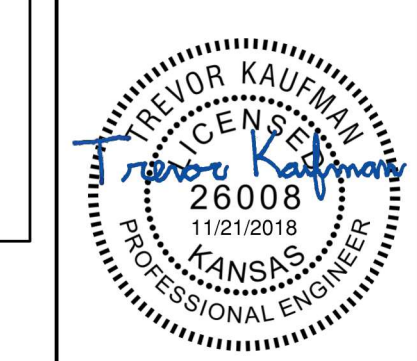
- FIRE HYDRANT BURY DEPTHS ARE BASED ON THE TOP ELEVATION OF THE PROPOSED WATER MAIN AND THE APPROXIMATE GROUND ELEVATION AT THE LOCATION OF THE FIRE HYDRANT. THE CONTRACTOR SHALL VERIFY THESE ELEVATIONS PRIOR TO INSTALLING FIRE HYDRANTS. ANY MODIFICATIONS REQUIRED TO THE FIRE HYDRANT BURY DEPTH DUE TO THE CONTRACTOR'S FIELD ADJUSTMENTS TO THE WATER MAIN PROFILE SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY. PROPOSED ADJUSTMENTS MUST BE APPROVED BY THE RESIDENT INSPECTOR PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL VALVE BOX COVERS.
- OPENING AND CLOSING WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTION SYSTEM FROM WATER HAMMER. ALL VALVES 12" AND LARGER SHALL BE OPERATED BY THE CITY OF WICHITA ONLY. ALL VALVES CLOSED BY THE CONTRACTOR MUST BE REOPENED AS NEW CONSTRUCTION PERMITS. PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
- CONTRACTOR SHALL ABANDON THE EXISTING WATER MAIN TO THE LIMITS SHOWN ON THE PLAN SHEETS. ALL WATERLINES TO BE ABANDONED SHALL BE CUT AND CAPPED/PLUGGED AS APPROVED BY THE ENGINEER. ALL PIPE LARGER THAN 8" SHALL BE SAND FILLED. ANY VALVES/FITTINGS TO BE ABANDONED IN PLACE SHALL BE PROPERLY PLUGGED. ALL WORK ASSOCIATED WITH ABANDONMENT OF EXISTING WATERLINES SHALL BE INCLUDED IN THE LUMP SUM BID ITEM FOR "WATERLINE ABANDONMENT".
- THE CONTRACTOR SHALL MINIMIZE SERVICE DISRUPTION TO PROPERTY OWNERS AND SHALL PROVIDE 48 HOURS WRITTEN NOTICE TO ANY PROPERTY OWNERS THAT WILL HAVE A LOSS OF SERVICE.
- THE CONTRACTOR SHALL RESTRAIN ALL BENDS, VALVES, AND TEES THROUGH THE USE OF A RESTRAINED JOINT PIPE AS SPECIFIED, AT THE MINIMUM LENGTHS AS SHOWN IN THE PLANS. OTHER METHODS OF RESTRAINT MAY BE SUBMITTED FOR APPROVAL AT LEAST 7 DAYS PRIOR TO BIDDING. RESTRAINED JOINT DUCTILE IRON PIPE SHALL BE U.S. PIPE TR FLEX, US PIPE HP LOK, AMERICAN FLEX RING, OR APPROVED EQUAL, IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE A FULL DEPTH SAW CUT AT THE LIMITS OF CONSTRUCTION. CONTRACTOR SHALL ALSO PROVIDE AN EXPANSION JOINT AT LIMITS OF CONSTRUCTION WHEN ADJACENT TO EXISTING CONCRETE PAVEMENT OR CONCRETE CURB & GUTTER.
- ALL BEDDING FOR PIPES 24 INCHES (24") OR LARGER SHALL BE IMPROVED BEDDING CONSISTING OF TYPE 1 PIPE BEDDING MATERIAL UNDER THE BARREL OF THE PIPE EXTENDING TO A LEVEL EQUAL TO ONE-HALF (1/2) THE OUTSIDE PIPE DIAMETER. TYPE 3 BEDDING MATERIAL SHALL BE USED FROM THIS LEVEL TO A LEVEL TWELVE INCHES (12") ABOVE THE TOP OF THE PIPE. ALL BEDDING FOR PIPES LESS THAN 24 INCHES (24") SHALL BE PER CITY OF WICHITA STANDARD SPECIFICATIONS. JETTED SAND BACKFILL SHALL BE USED AS BACKFILL.
- IF UNSTABLE SOILS ARE ENCOUNTERED, OVER-EXCAVATION SHALL BE PERFORMED AND TYPE 1 BEDDING, OR OTHER APPROVED MATERIAL SHALL BE PLACED AND COMPACTED.
- IF EXISTING PIPE REMOVAL RESULTS IN AN OPEN TRENCH BELOW THE PROPOSED PIPE, THE TRENCH SHALL BE BACKFILLED WITH COMPACTED TYPE 1 BEDDING MATERIAL, OR OTHER APPROVED MATERIAL, UP TO THE PROPOSED PIPE. ALL OTHER AREAS SHALL BE BACKFILLED WITH JETTED SAND.

CONSTRUCTION SEQUENCING

- THE CONTRACTOR SHALL REVIEW THE FOLLOWING PROPOSED CONSTRUCTION SEQUENCE AND SUBMIT A DETAILED PROPOSED SCHEDULE TO THE ENGINEER FOR APPROVAL AT LEAST 10 DAYS PRIOR TO THE NOTICE TO PROCEED.
- THE CONTRACTOR SHALL COMPLETE EXPLORATORY EXCAVATION WITH SURVEY AS NOTED ON THE PLANS TO VERIFY EXISTING WATERLINE HORIZONTAL AND VERTICAL LOCATION, TYPE, SIZE, ACTIVE STATUS, PIPE SLOPE, AND FITTINGS. A THOMPSON PIPEGROUP - PRESSURE DIVISION REPRESENTATIVE SHALL BE ON-SITE TO VERIFY PSCS JOINT TYPES. THIS WORK SHALL OCCUR OVER ONE WEEKEND BETWEEN 6:30 PM ON FRIDAY TO 6:00 AM MONDAY. THE STREET SHALL BE FULLY CLOSED DURING THIS PERIOD IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS. ROCK BASE AND TEMPORARY ASPHALT PAVEMENT SHALL BE INSTALLED AT ALL EXCAVATION LOCATIONS FOLLOWING EVALUATION. THIS WORK SHALL BE INCLUDED IN THE BID ITEM "EXPLORATORY EXCAVATION".
  - THE CONTRACTOR SHALL REPORT ALL FINDINGS TO THE ENGINEER SO THAT ANY NECESSARY PLAN MODIFICATIONS CAN BE MADE. THE CONTRACTOR SHALL THEN ORDER ALL NECESSARY MATERIALS.
  - AFTER MATERIALS ARE RECEIVED, FULL CONSTRUCTION MAY BEGIN. THE STREET SHALL BE FULLY CLOSED IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS.
  - THE 1" WATER SERVICE RECONNECTION SHALL BE COMPLETED FIRST.
  - ALL NECESSARY VALVES SHALL BE CLOSED FOR ISOLATION. THE CONTRACTOR SHALL COORDINATE THE CLOSING OF THESE VALVES WITH THE CITY. THE NECESSARY PAVEMENT REMOVAL AND PIPE REMOVAL SHALL BE PERFORMED.
  - CONSTRUCTION OF WATERLINE NO. 1, THE VALVE VAULT, AND WL NO. 2 FROM STA. 0+52.66 TO STA. 1+27.20, INCLUDING VALVES, SHOULD BE COMPLETED. ADEQUATE BACKFILL SHALL BE PROVIDED AROUND STRUCTURE AND PIPE TO PROVIDE BEARING STRENGTHS REQUIRED FOR TESTING. TESTING OF WATERLINE NO. 1 SHALL BE COMPLETED PER CITY OF WICHITA STANDARD SPECIFICATIONS UTILIZING TEMPORARY RJ CAPS AND BLOW OFF ASSEMBLIES. THE PROPOSED 48L VALVES SHALL BE REOPENED AND WATERLINE NO. 1 SHALL BE PUT INTO SERVICE.
  - THE REMAINDER OF WATERLINE NO. 2 SHALL BE CONSTRUCTED AND THE LINE SHALL BE TESTED PER CITY OF WICHITA STANDARD SPECIFICATIONS UTILIZING TEMPORARY BLOW OFF ASSEMBLIES. WATERLINE NO. 2 SHALL BE PUT INTO SERVICE.
  - WATERLINE NO. 3 SHALL BE CONSTRUCTED, INCLUDING THE SOUTH ANCHORED VALVES AT WL 3, STA. 0+56.55 & STA. 0+77.55. WATERLINE NO. 3 SHALL THEN BE TESTED PER CITY OF WICHITA STANDARD SPECIFICATIONS UTILIZING TEMPORARY BLOW OFF ASSEMBLIES. WATERLINE NO. 3 SHALL BE PUT INTO SERVICE.
  - WATERLINE NO. 4 AND WATERLINE NO. 5 SHALL BE CONSTRUCTED AND TESTED PER CITY OF WICHITA STANDARD SPECIFICATIONS UTILIZING TEMPORARY BLOW OFF ASSEMBLIES. THEY SHOULD BOTH THEN BE PUT INTO SERVICE.
  - ALL REMAINING WORK SHALL THEN BE COMPLETED.

NOTE: WATERLINE VALVES LESS THAN 12" TO BE OPERATED BY CONTRACTOR ONLY IF WATER DEPARTMENT REPRESENTATIVE IS ON SITE. ONLY THE CITY OF WICHITA SHALL OPERATE VALVES 12" OR LARGER.

No.	Revision	By	Date
<b>WATERLINE MODIFICATIONS</b> <b>VALVE VAULT AND WATERLINE RECONNECTIONS AT MCLEAN AND EXPOSITION</b> <b>KEY MAP AND GENERAL NOTES</b> GARY JANZEN, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 448-90913 PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
Designed by	TBK	Job No.	35-160312-14-42
Drawn by	CSL, KTD	Date	JULY 2018
			Sht. C2 of 34



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