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 PLOTTED: Friday, February 05, 2021 @ 07:15AM

GENERAL NOTES

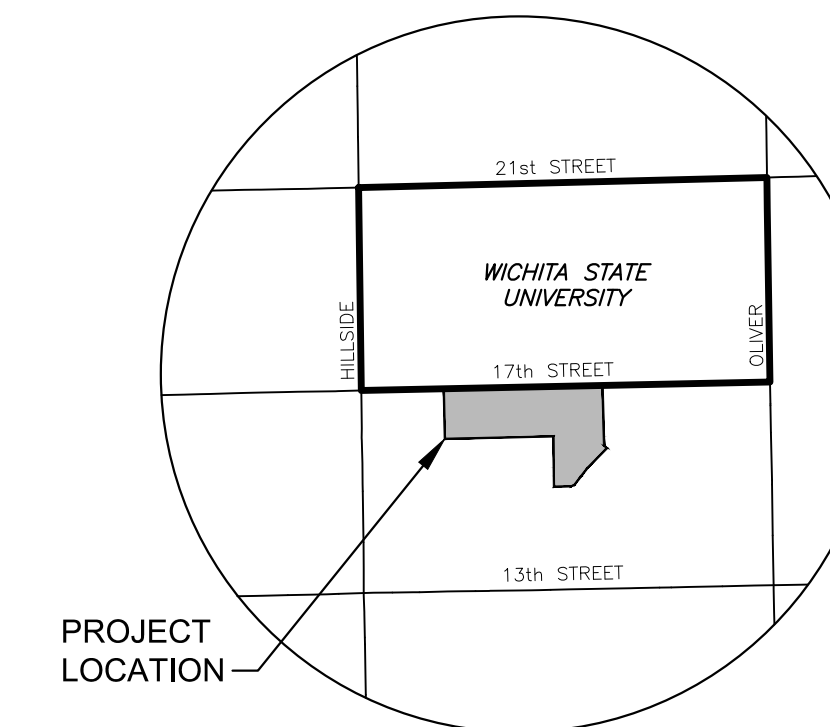
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION, AS FOLLOWS:
 KANSAS ONE-CALL 687-2470
 THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:
 AT&T 1-800-246-8464
 BLACK HILLS ENERGY (GAS) 1-800-694-8989
 CITY OF WICHITA WATER & SEWER 1-316-219-8921
 CITY OF WICHITA STORMWATER 1-316-268-4090
 CITY OF WICHITA TRAFFIC 1-316-268-4034
 COX COMMUNICATIONS 1-888-249-3530
 KANSAS GAS SERVICE 1-888-482-4950
 EVERGY 1-800-544-4857
- UTILITY SERVICE LINES, POLES, ETC. ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS, IN THE OPINION OF THE ENGINEER, THAT 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 WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- 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 CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- THE ENGINEERING DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FIELD GRADES BY THE CONTRACTOR.
- IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER, MIKE ARMOUR AT traffic@wichita.gov BEFORE CONSTRUCTION CAN BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES TO FACILITATE CONSTRUCTION. ALL CONSTRUCTION ZONE MARKINGS AND SIGNAGE SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS PUBLISHED BY THE US DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL COSTS ASSOCIATED WITH CONSTRUCTION MARKINGS AND SIGNAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE RESTORED TO MATCH EXISTING CONDITIONS.
- MAINTAIN A MINIMUM OF 10-FOOT HORIZONTAL SEPARATION BETWEEN ALL WATER LINES (MAINS, SERVICES, AND FIRE HYDRANTS) AND ALL SANITARY SEWER LINES (MAINS, SERVICES, AND MANHOLES). ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
- MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAINS AND SERVICES) AND ALL GRAVITY SANITARY SEWER LINES (MAINS, SERVICES, AND MANHOLES) AT CROSSINGS. ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
- MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAINS AND SERVICES) AND ALL PRESSURIZED SANITARY SEWER LINES (FORCE MAINS AND SERVICES) AT CROSSINGS. WATER LINES MUST ALWAYS BE PLACED ABOVE PRESSURIZED SANITARY SEWER LINES WHERE THEY CROSS. ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
- CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED TO THE PROJECT AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION.
- THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, ENTRANCES AND BANK LINES TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE.
- ALL LAWN/TURF AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE RESTORED WITH THE SAME GRASS AS EXISTING. RESTORATION OF DISTURBED AREAS SHALL INCLUDE BUT NOT BE LIMITED TO TOP SOIL PREPARATION AND SODDING. ALL SODDING WORK SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS AND THE CITY OF WICHITA ADMINISTRATIVE REGULATION NO. AR78 WHICH GOVERNS CLEANUP AND RESTORATION OR REPLACEMENT FOLLOWING CONSTRUCTION. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO SODDING.
- THE CONTRACTOR SHALL USE DIRECTIONAL DRILLING METHODS AS MUCH AS POSSIBLE AND SHALL OPEN CUT ONLY WHERE ABSOLUTELY NECESSARY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LIMIT DISTURBANCES TO PROPERTIES INSIDE OF AND ADJACENT TO CONSTRUCTION AREAS.
- THE CONTRACTOR SHALL SCHEDULE CONSTRUCTION ACTIVITIES SO AS TO LIMIT WATER SERVICE DOWN TIME TO RESIDENCES. WHEREVER POSSIBLE, THE PROPOSED WATER DISTRIBUTION SYSTEM SHALL BE IN PLACE AND ACTIVE ALONGSIDE THE EXISTING SYSTEM WHILE NEW SERVICE LINES ARE INSTALLED TO THE PROPOSED MAINS. ALL PROPOSED MAINS SHALL BE CONNECTED TO THE PROPOSED MAINS PRIOR TO DISCONNECTING EXISTING WATER MAINS. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING A COPY OF HIS CONSTRUCTION SCHEDULE TO THE PROJECT ENGINEER AND THE CITY OF WICHITA, KANSAS FOR APPROVAL PRIOR TO CONSTRUCTION START.
- IN LOCATIONS WHERE PROPOSED WATER LINE STRUCTURES INTERFERE WITH EXISTING WATER LINES, CONTRACTOR SHALL INSTALL THOSE STRUCTURES AFTER ALL OTHER RELATED STRUCTURES AND PIPES HAVE BEEN INSTALLED, SO AS TO REDUCE THE LOSS OF SERVICE TO RESIDENTS.
- VALVE BOXES INSTALLED AT TAPPING LOCATIONS WILL BE PROVIDED BY THE CITY AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR MUST INSTALL THE BLOCKING AND THE VALVE BOXES, WITH THE VALVE BOXES INSTALLED AT GRADE. ALL OTHER FITTINGS SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.
- ALL CUTS AND CAPS OF LINES THAT WILL BE ATTACHED TO LIVE MAINS NEED TO BE WITHIN 2 FEET OF THE EXISTING CONNECTION.
- CONTRACTOR SHALL PROTECT EXISTING WATER MAINS AND SEWER MAINS.
- THE CONTRACTOR SHALL RETURN ALL SALVAGED VALVES, HYDRANTS, HYDRANT FITTINGS, METER SETTERS, AND ETC. TO THE CITY OF WICHITA WATER DISTRIBUTION DEPARTMENT YARD LOCATED AT 1825 S. MCLEAN BLVD. THE CONTRACTOR SHALL HAVE ALL SALVAGED MATERIAL CHECKED IN BY THE STOREKEEPER.
- EXISTING SERVICE LINES, TO BE ABANDONED, SHALL BE CUT AND CAPPED. EXISTING METER BOXES, METER SETTERS, RINGS AND LIDS SHALL BE RETURNED, IF SALVAGEABLE, BY THE CONTRACTOR TO 1825 S. MCLEAN BLVD. PROJECT INSPECTOR SHALL MAKE DETERMINATION.
- THE CONTRACTOR WILL USE RESTRAINT SYSTEMS AT ALL FITTINGS.
 A. THRUST BLOCKING AT THESE LOCATIONS IS NOT REQUIRED
 B. FIRE HYDRANT LEADS DO NOT NEED TO BE RESTRAINED JOINTS, BUT EITHER SIDE OF THE TEE MUST BE RESTRAINED.
 C. THE CITY WILL NOT PROVIDE A RESTRAINED GLAND PACK AT THE CITY INSTALLED TAPS, THESE MUST BE PROVIDED BY THE CONTRACTOR.
- THE UNIT PRICE BID FOR NEW SERVICE LINES SHALL INCLUDE THE COST OF THE SERVICE LINE, THE NEW METER BOX, METER BOX RING AND LID, NEW METER SETTER, INSTALLATION OF THE NEW METER IN THE NEW BOX, NEW COPPER PIGTAIL AND NEW CORPORATION IN THE NEW WATER MAIN. EXISTING PLASTIC METER BOXES MAY BE RE-USED
- THE METERS WITHIN THE PROJECT LIMITS SHOULD BE EQUIPPED WITH AUTOMATED METER READING (AMR) TECHNOLOGIES. ALL 5/8" METERS SHALL BE UPGRADED TO 1" METERS, WHICH WILL BE PROVIDED BY C.O.W. CONTRACTOR MAY PICK UP METERS AT 1825 S. MCLEAN BLVD. COSTS TO BE SUBSIDIARY TO LONG AND SHORT SERVICES BID ITEMS.
- SPRINKLER SYSTEMS: THE CONTRACTOR IS REQUIRED TO REPAIR DAMAGE THAT INCLUDES, BUT IS NOT ENTIRELY LIMITED TO, MINOR ITEMS SUCH AS PIPE, IRRIGATION HEAD REPAIR/REPLACEMENT. THESE REPAIRS SHALL BE SUBSIDIARY TO OTHER ITEMS. THE CONTRACTOR IS NOT EXPECTED TO REPAIR OR RECONFIGURE MAJOR COMPONENTS SUCH AS VALVES, CONTROLLERS, BACKFLOW PREVENTERS, ETC. HOWEVER, ALL EXISTING CONNECTIONS TO THE SERVICE LINE OR METER SHALL BE IN PLACE AND WORKING AT THE CONCLUSION OF THE PROJECT. THE CONTRACTOR IS REQUIRED TO PROTECT MAJOR COMPONENTS FROM DAMAGE. ANY DAMAGE CAUSED DUE TO NEGLIGENCE MUST BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPENINGS OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.

WATER MAIN REPLACEMENT PLANS TO SERVE WATER LINE IMPROVEMENTS SOUTH OF 17th STREET

PROJECT NO. 448-2020-027409

THE CITY OF WICHITA, KANSAS
GARY JANZEN, P.E. - CITY ENGINEER

OCA 820039



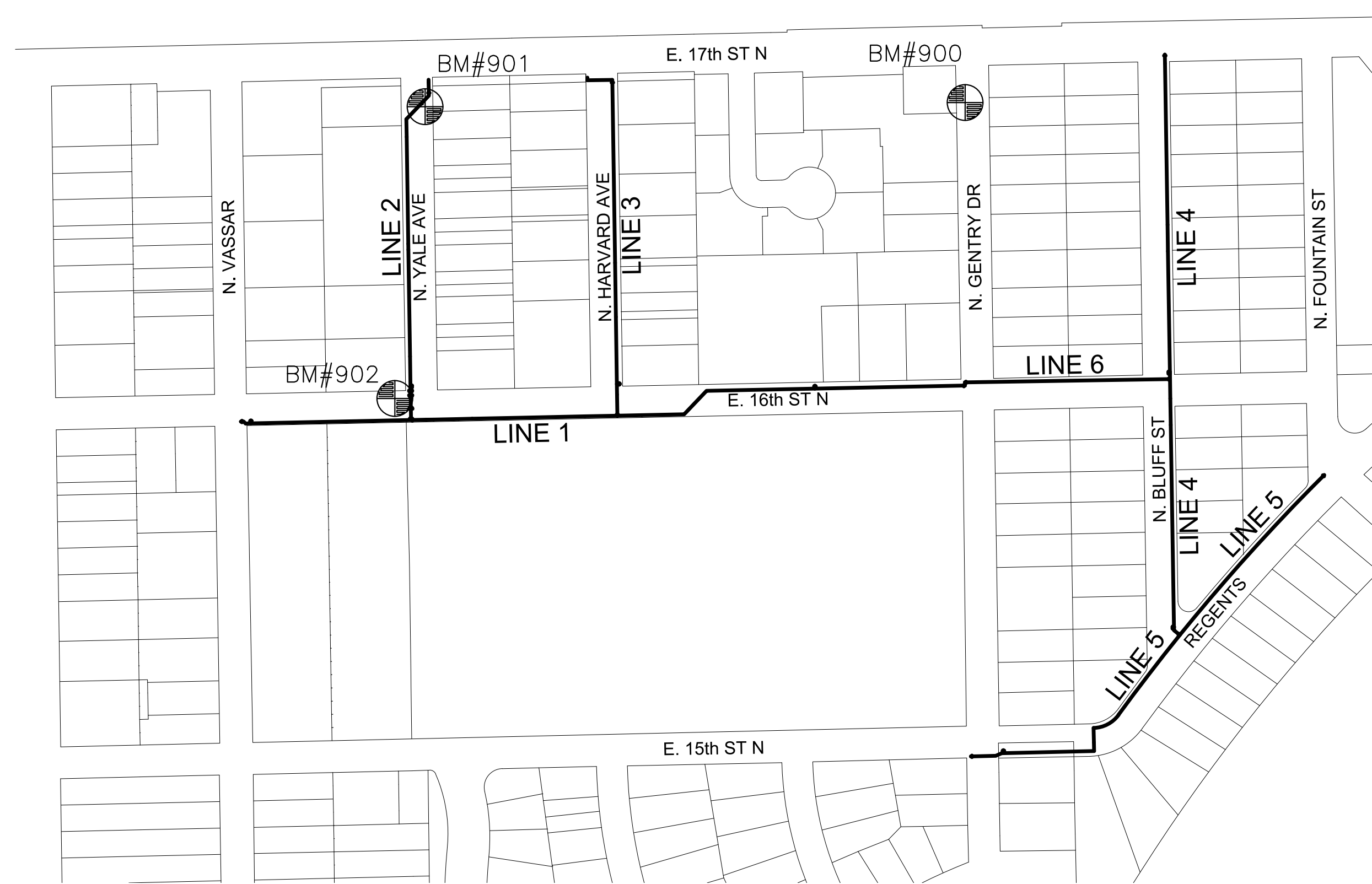
VICINITY MAP

INDEX TO DRAWINGS

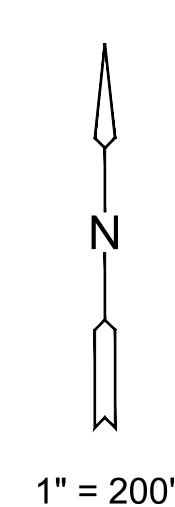
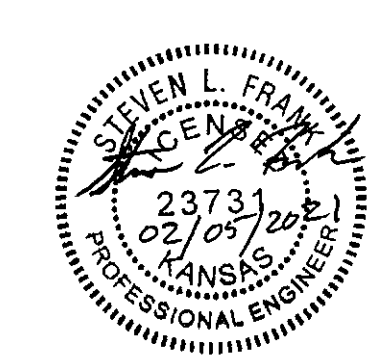
SHEET NO.	DESCRIPTION
01	TITLE SHEET
02	CONTROL PLAN
03	FIRE HYDRANT DETAILS
04	WATER SERVICE DETAILS
05	MISC. WATER DETAILS
06	WATER SERVICE & FH TABLES
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10	WATER LINE 3
11-12	WATER LINE 4
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15	WATER LINE 6
17	EXISTING VALVE MAP
18	BUBBLE MAP
19	DRIVE DETAILS
20-25	TRAFFIC CONTROL DETAILS
26-30	BMP SHEETS

BENCHMARKS

BM #900	BM SQ CUT TC ON S. RETURN TO E. ENTRANCE TO THE FIELDHOUSE BAR @ 17TH GENTRY N=1696630.339, E=1662382.656 EL=1386.330
BM #901	BM SQ CUT TC ON S. RETURN 1ST SET OF PARKING STALLS S. OF 17TH ON E. SIDE YALE N=1696622.560, E=1661362.041 EL=1382.115
BM #902	BM SQ CUT TC N. SIDE OF 16TH STREET 10' +/- WEST OF CURB INLET ON NW CORNER OF YALE AND 16TH N=1696070.981, E=1661304.950 EL: 1376.235



- OPENING AND CLOSING OF WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTIONS SYSTEM FROM WATER HAMMER. ALL VALVES CLOSED BY THE CONTRACTOR MUST BE REOPENED AS NEW CONSTRUCTION PERMITS. THE PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. THE CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
- THE CONTRACTOR SHALL LAY A TRACER WIRE AND SET TEST STATIONS ALONG ALL WATER PIPE INSTALLED IN ACCORDANCE WITH CITY SPECIFICATIONS AND TRACER WIRE DETAIL ON DETAIL SHEET WL-101, COST IS SUBSIDIARY TO PIPE INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE MATERIALS FOR TEMPORARY BLOWOFF OF WATERLINES. CONNECTIONS TO THE EXISTING WATERLINE(S) SHALL BE MADE WITH CLEAN, SWABBED PIPE AND FLUSHED UPON COMPLETION OF TIE-INS.
- DEFLECTIONS AT PIPE JOINT OR COUPLINGS SHALL NOT EXCEED THE PIPE MANUFACTURER'S RECOMMENDED MAXIMUM. WHERE DEFLECTIONS ARE GREATER THAN THE MAXIMUM ALLOWED, THE CONTRACTOR SHALL UTILIZE CIMJ LONG SLEEVE OR MULTIPLE JOINTS.
- ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED JOINT.
- THE CONTRACTOR SHALL PROTECT FROM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTION AS APPROVED BY THE UTILITY OWNER AND THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL TRAFFIC CONTROL DEVICES IN THE WORK ZONE (INCLUDING MARKINGS AND SIGNS) AND THEIR INSTALLATION AND MAINTENANCE SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL TRAFFIC CONTROL DEVICES IN THE TRAVELED WAY OR CLEAR ZONE SHALL BE CRASHWORTHY (NCHRP REPORT 350 OR MASH COMPLIANT).
https://safety.fhwa.dot.gov/roadway_dept/courtemeasures/reduce_crash_severity/
- ALL CONSTRUCTION EQUIPMENT, INCLUDING VEHICLES, MATERIALS, AND DEBRIS, SHALL BE STORED OUTSIDE OF THE CLEAR ZONE. WHERE THIS CANNOT BE ACHIEVED THE CONTRACTOR SHALL PLACE APPROPRIATE SIGNS, OBJECT IDENTIFIERS, AND/OR BARRICADES IN COMPLIANCE WITH MUTCD.
- EXCEPT WHEN REQUIRED FOR SAFETY, TRAFFIC CONTROL SHALL NOT BLOCK ANY LANES OR SIDEWALKS WHEN WORK IS NOT BEING PERFORMED.
- FOLLOW THE LINK BELOW FOR CONSTRUCTION DETAILS ON SPECIFIC CITY OF WICHITA STANDARD DETAILS:
<http://www.wichita.gov/PWU/Pages/Regulations.aspx>



NOTE: WATER LINE VALVES TO BE OPERATED BY CONTRACTOR ONLY IF WATER INSPECTOR IS ON SITE.



WATER LINE REPLACEMENT PLANS FOR
**WATER LINE IMPROVEMENTS
 SOUTH OF 17th STREET**

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TITLE SHEET

PROJECT NO.	448-2020-027409	
DATE	FEB. 2021	
SCALE	1" = 200'	
DESIGNED	DRAWN	CHECKED
DFL	JWC	SLF
NO.	REVISION	DATE
SHEET NO.		
01 OF 30		