

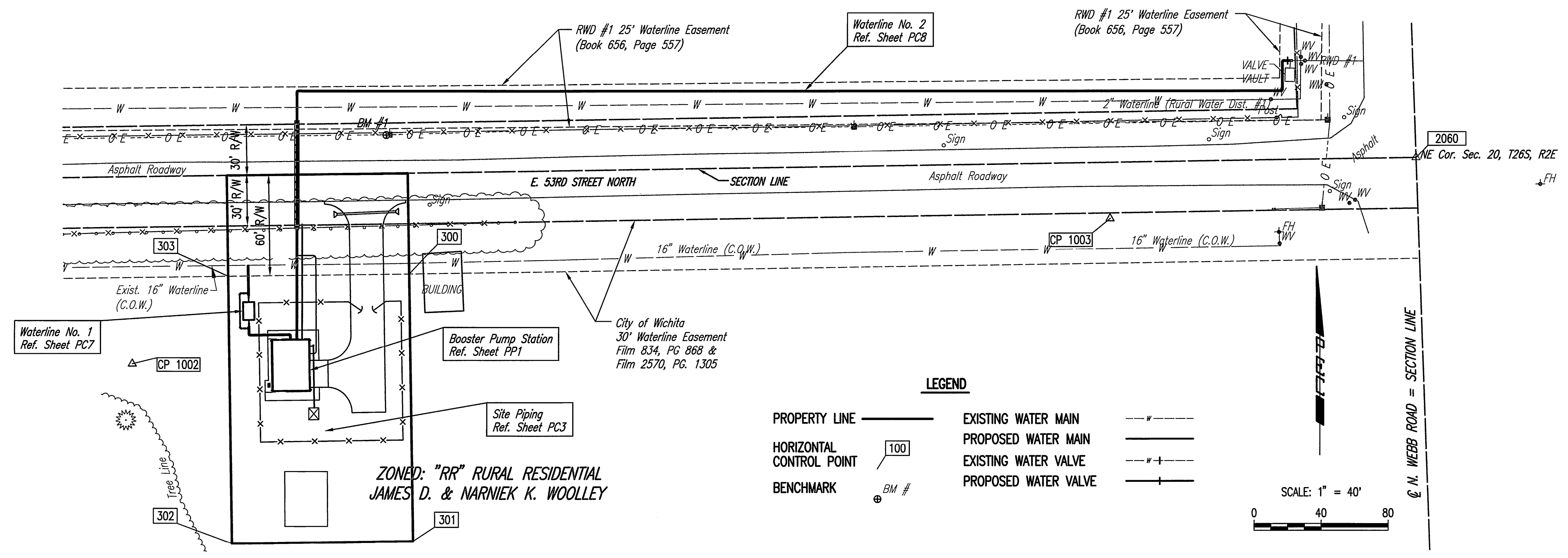
GENERAL NOTES

- THE CONTRACTOR SHALL CONTAIN HIS OPERATIONS TO PERMIT TRAFFIC THROUGH AND ACROSS CONSTRUCTION AT EXISTING ROADWAYS AT ALL TIMES. THE CONTRACTOR SHALL ERECT WARNING SIGNS, FLASHING LIGHTS AND BARRICADES IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES TO ENSURE SAFETY. THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET. ALL OPEN TRENCHES SHALL HAVE SAFETY FENCES ERECTED AROUND THE LIMITS OF THE TRENCH OVERNIGHT AND WEEKENDS.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF SEVENTY-TWO (72) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL 687-2470

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

COX COMMUNICATIONS 262-0661
KANSAS GAS SERVICE 1(888)-482-4950
WESTAR ENERGY 383-8600
BLACK HILLS ENERGY 1(800)-527-0357
AT&T 1(800)-870-8390
CITY OF WICHITA WATER DEPARTMENT 262-6000
CITY OF WICHITA SEWER MAINTENANCE 262-6000
- ALL WATER MAINS AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF WICHITA, KANSAS STANDARD SPECIFICATIONS, AND THE PROJECT SPECIAL PROVISIONS.
- AT LEAST 72 HOURS PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL CONTACT THE FOLLOWING PERSONNEL TO ADVISE THEM OF THE INTENDED WORK AND OF HIS SCHEDULE:
SEDGWICK COUNTY RURAL WATER DISTRICT #1
DONNA BURK
(316) 755-1277
- THE BURIED UTILITIES AS LOCATED ON THE PLANS ARE APPROXIMATE LOCATIONS ONLY. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS. 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.
- WHERE THE IMPROVEMENTS CROSS EXISTING PUBLIC OR PRIVATE UTILITIES WHICH ARE NOT TO BE ADJUSTED BY OTHERS, THE CONTRACTOR SHALL PROVIDE THE MATERIAL AND MEANS TO PROTECT AND SUPPORT SAID UTILITIES DURING CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER.
- THE 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 AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY LOCAL, STATE AND FEDERAL PERMITS AS REQUIRED.
- ALL ELEVATIONS SHOWN ARE U.S.G.S. DATUM, NAVD 88.
- 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 HIS 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.
- POSITIVE DRAINAGE SHALL BE PROVIDED FOR ALL AREAS ON OR NEAR WASTE OR BORROW AREAS. NATURAL DRAINAGE WAYS SHALL BE MAINTAINED.
- EASEMENTS AND RIGHT-OF-WAY PROVIDED BY THE OWNER FOR THE PROJECT ARE SHOWN IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF ANY ADDITIONAL TEMPORARY EASEMENTS OR RIGHTS-OF-WAY THAT HE DESIRES TO USE IN COMPLETING THE WORK.
- WHERE REMOVAL OF EXISTING FENCES PARALLEL TO THE CONSTRUCTION IS DEEMED NECESSARY BY THE CONTRACTOR, THE CONTRACTOR SHALL COORDINATE REMOVAL WITH ADJACENT PROPERTY OWNERS. ALL REMOVAL AND RESETTING OF FENCES WILL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.
- THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, ENTRANCES, AND BANK LINES TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE. WHERE EXISTING ENTRANCE PIPE, DRAINAGE PIPE, SIGNS, FENCES, ETC., CONFLICT WITH THE PROPOSED WORK HEREIN, THEY SHALL BE REMOVED AND REPLACE OR RESET, UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL LAWN/TURF AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE RESTORED WITH THE SAME GRASS/SOD AS EXISTING. RESTORATION OF DISTURBED AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP SOIL PREPARATION, SEEDING, MULCH, AND/OR RESEEDING. 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 THE PROJECT.
- 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 OTHER PERMANENT SEEDING/SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED.
- IT IS THE INTENT OF THE PLANS TO MINIMIZE CONFLICTS WITH EXISTING UNDERGROUND UTILITIES. MINOR CHANGES IN LOCATION AND ALIGNMENT TO AVOID CONFLICTS MAY BE MADE UPON APPROVAL BY THE ENGINEER. WHERE SUCH CHANGES CANNOT BE MADE WITHOUT COMPROMISING THE FUNCTION OF THE WORK, THE CONTRACTOR SHALL ADJUST EXISTING UTILITIES AS REQUIRED. COMPENSATION FOR SUCH ADJUSTMENTS SHALL BE MADE AS PROVIDED FOR IN THE CONTRACT DOCUMENTS.



LEGEND

PROPERTY LINE	---	EXISTING WATER MAIN	---
HORIZONTAL CONTROL POINT	100	PROPOSED WATER MAIN	---
BENCHMARK	BM #	EXISTING WATER VALVE	---
		PROPOSED WATER VALVE	---

HORIZONTAL CONTROL POINTS	BENCH MARK
CP #1002 N: 1,720,603.20, E: 1,679,525.52 1/2" Bar 95.50' N to S edge 53rd street 25.00' N to S face metal barn 3' E to W edge crop line 34.00' S to 8" cedar tree	BM #1 N: 1,720,739.79, E: 1,679,676.94 1" Post N side 53rd street 1' W of 3rd pole W of 53rd & Webb Elev. 1398.22
CP #1003 N: 1,720,690.15, E: 1,680,108.97 1/2" Bar 3' N to brace post W side field entrance S side 53rd street 35' N to centerline 53rd street 180' E to centerline Webb Road	BM #1A N: 1,720,730.62, E: 1,679,455.12 Mag nail N end, E of 2- 48" CMP's 835 ± W of 53rd & Webb 222' ± W of BM #1 Elev. 1396.39
SECTION CORNER	CP #2060 (N-1,720,726.17, E-1,680,291.66 5/8" Bar w/cap at surface NE Cor., Sec. 20, T26S, R2E 77.52' ENE to Mag Nail NW Face Guy Pole 75.45' ESE to Top Center Fire Hydrant 56.78' WNW to Mag Nail North Face Power Pole 63.70' WSW to Mag Nail S. Face Power Pole @ Webb Road 2 ± S. to @ 53rd North to West

PROPERTY CORNER COORDINATE LIST			
POINT	NORTH	EAST	DESCRIPTION
300	1,720,657.12	1,679,690.63	NE CORNER OF BOOSTER STATION PROPERTY 1/2" REBAR W/PEC CAP
301	1,720,498.14	1,679,693.02	SE CORNER OF BOOSTER STATION PROPERTY 1/2" REBAR W/PEC CAP
302	1,720,496.52	1,679,585.03	SW CORNER OF BOOSTER STATION PROPERTY 1/2" REBAR W/PEC CAP
303	1,720,655.50	1,679,582.64	NW CORNER OF BOOSTER STATION PROPERTY 1/2" REBAR W/PEC CAP

- 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 GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF PROPERTY DIRECTLY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO THE START OF CONSTRUCTION.
- EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT HE 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.
- THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS DETAILED. THE GENERAL LOCATION OF THE REQUIRED EROSION CONTROL IS ILLUSTRATED ON THE EROSION CONTROL PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL SHOWN THROUGHOUT THE COMPLETION OF THIS PROJECT. INSTALLATION OF THESE EROSION CONTROL DEVICES DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL RE-ESTABLISH CONTROL POINTS AND BENCH MARKS AND VERIFY THEIR ACCURACY.
- PIPE FITTINGS BELOW GRADE SHALL BE MECHANICAL JOINT W/THRUST BLOCKING OR RESTRAINED JOINT.
- PIPING CONNECTIONS WITHIN THE STRUCTURES SHALL BE FLANGE OR VICTAULIC CONNECTION UNLESS OTHERWISE NOTED. PIPING SHALL BE RESTRAINED AND SUPPORTED AS REQUIRED.
- THE CONTRACTOR SHALL INSTALL APPROPRIATE WALL PIPE FITTINGS IN WALLS AND FLOORS WHERE PIPING PENETRATES NEW CONCRETE CONSTRUCTION.
- ALL BACKFILL SHALL BE JETTED SAND PER THE CITY OF WICHITA, KANSAS STANDARD SPECIFICATIONS UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL COORDINATE ALL TIE-INS WITH RURAL WATER DISTRICT #1 AND THE CITY OF WICHITA PERSONNEL. THESE WORK ACTIVITIES SHALL BE COMPLETED ONLY WITHIN THE WINDOW OF TIME ALLOCATED FOR THE PROCEDURE BY THE RURAL WATER DISTRICT #1 AND THE CITY OF WICHITA PERSONNEL.
- NUTS AND BOLTS FOR BURIED APPLICATION SHALL BE HIGH STRENGTH LOW ALLOY STEEL THAT MEETS THE REQUIREMENTS OF AWWA C111.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE NECESSARY PERMITS FOR DEWATERING DURING CONSTRUCTION. ALL COSTS FOR DEWATERING AND DRAINAGE ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. THE NOI SHALL BE TRANSFERRED TO THE OWNER AT FINAL COMPLETION OF PROJECT IF OWNER IS SATISFIED WITH CONDITION OF EXISTING EROSION CONTROL IN PLACE.

- CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE SITE DURING CONSTRUCTION.
- CONTRACTOR SHALL AVOID REMOVAL OR TRIMMING OF ANY TREES WHERE POSSIBLE UNLESS AVOIDABLE HE SHALL OBTAIN THE APPROVAL OF THE ENGINEER BEFORE PROCEEDING WITH SUCH WORK.
- ALL PIPING AND EQUIPMENT NEEDS TO BE ADEQUATELY SUPPORTED. SUPPORTS SUCH AS WALL BRACKETS, CLEVIS HANGERS AND STEEL OR CONCRETE SUPPORTS SHALL BE POSITIONED TO ADEQUATELY SUPPORT THE PIPE. THE CONTRACTOR SHALL ALSO INSTALL ANY ADDITIONAL PIPE SUPPORTS DEEMED NECESSARY. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL THE TYPE OF PIPE SUPPORT AND PROPOSED LOCATION(S) FOR INSTALLATION.
- ALL EQUIPMENT DIMENSIONS, CONNECTION SIZES, CONNECTION LOCATIONS, INSTALLATION REQUIREMENTS, ETC. WILL VARY BETWEEN EQUIPMENT MANUFACTURERS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EQUIPMENT DIMENSIONS, CONNECTION SIZES, CONNECTION LOCATIONS, INSTALLATION REQUIREMENTS, ETC. AND IS RESPONSIBLE FOR MAKING ALL NECESSARY CHANGES OR ADDITIONS FOR INSTALLATION OF ALL EQUIPMENT TO ENSURE FULLY FUNCTIONAL SYSTEMS AS SPECIFIED AND AS IDENTIFIED BY THE MANUFACTURER. SUBMITTAL SHALL NOTE ANY CHANGES TO PLANS OR SPECIFICATIONS.
- MATERIAL QUANTITIES SHOWN ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ACTUAL MATERIAL QUANTITIES. ADDITIONAL PAYMENT BASED ON VARIANCES SHALL NOT BE ALLOWED AND SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.
- THE CONTRACTOR SHALL ABIDE BY THE PROVISIONS OF THE STORM WATER POLLUTION PREVENTION PLAN DURING CONSTRUCTION AND SHALL EXECUTE A CONTRACTOR CERTIFICATION PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES UNTIL A WRITTEN RELEASE TRANSFER OF RESPONSIBILITY IS ISSUED BY THE OWNER.
- OPENING AND CLOSING WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTION SYSTEM FROM WATER HAMMER. 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ACQUIRE THE USE OF STORAGE AND STAGING AREAS FOR MATERIALS AND EQUIPMENT ON AREAS OUTSIDE THE PROPERTY LINE SHOWN FOR THE PROJECT SITE.

	Revision		By	Date
	SEDGWICK COUNTY RURAL WATER DISTRICT #1 WATER DISTRIBUTION SYSTEM IMPROVEMENTS KEY MAP, GENERAL NOTES AND PROJECT CONTROL INFORMATION GARY JANZEN, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 448-90565			
	DESIGNED BY SCU DRAWN BY CAE	JOB NO. 34-11123 DATE JULY 2013	PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com	
			Sht. PC1 of 24	

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