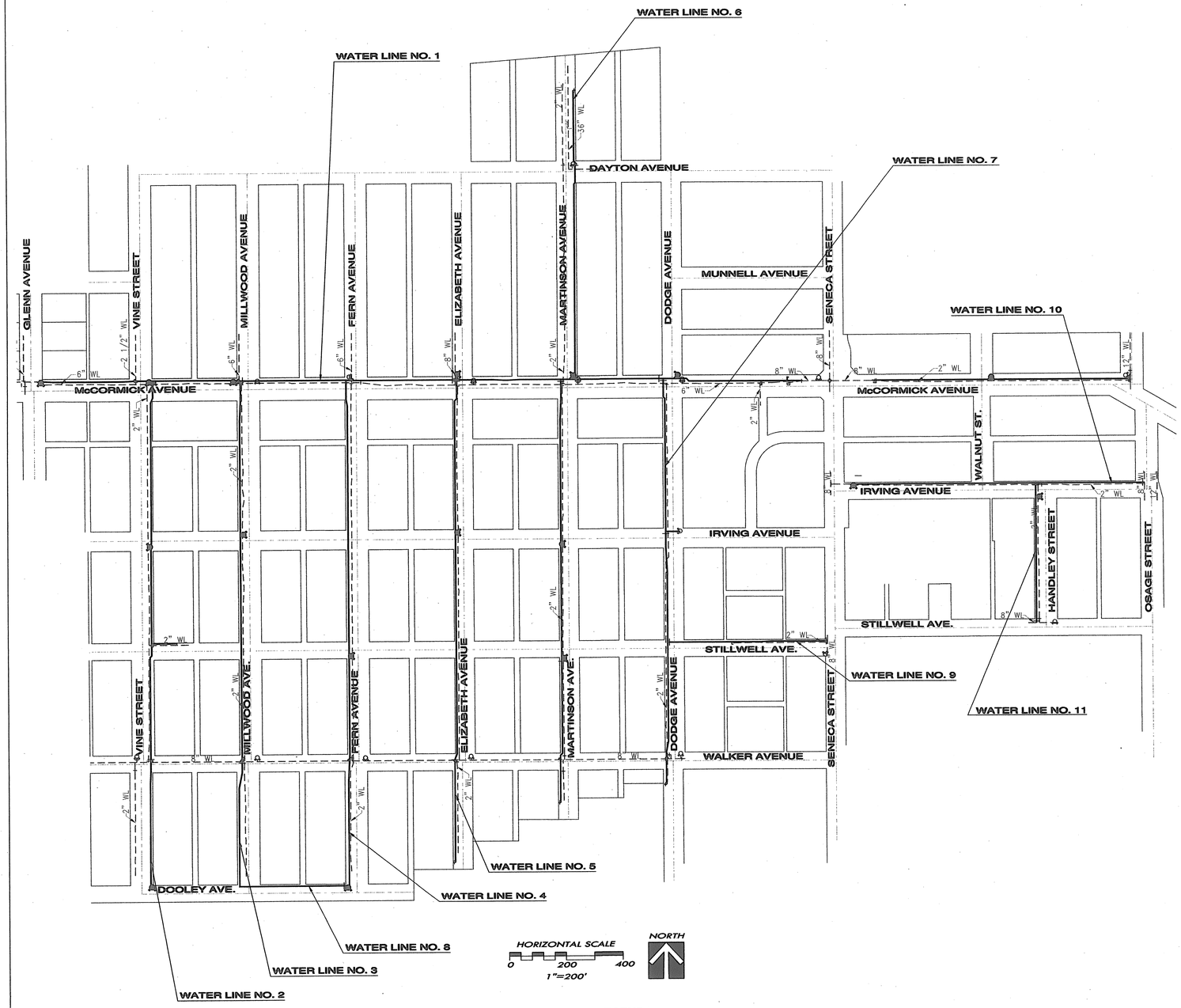

LEGEND:

PROPOSED WATER LINE
EXISTING WATER LINE
PROPOSED FIRE HYDRANT
EXISTING FIRE HYDRANT
PROPOSED WATER VALVE
EXISTING VALVE

GENERAL NOTES:

1. ALL WATER MAINS AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF WICHITA, KANSAS STANDARD SPECIFICATIONS.

2. ALL ELEVATIONS SHOWN ARE OF WICHITA DATUM.

3. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY EIGHT 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	1-800-482-4950
AQUILA NETWORKS	1-800-527-0357
WESTAR ENERGY	383-8600
AT&T	1-800-870-8390
CITY OF WICHITA WATER DEPARTMENT	268-4940
CITY OF WICHITA SEWER DEPARTMENT	268-4940

4. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST AVAILABLE INFORMATION. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLE MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES AND CABLES. ANY UTILITIES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE. 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.

5. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE EXISTING WATERLINES AT THE CONNECTION TO VERIFY PIPE SIZE, PIPE TYPE, FITTINGS AND THE HORIZONTAL AND VERTICAL LOCATIONS. THE CONTRACTOR REPORT HIS FINDINGS TO THE ENGINEER SO THAT ANY PLAN MODIFICATIONS MAY BE MADE. ONCE THE WATERLINE IS LOCATED AND EXPOSED, THE CITY OF WICHITA WILL FURNISH AND PERFORM THE WATER TAPS TO THE EXISTING WATER MAINS AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL REIMBURSE THE CITY OF WICHITA WATER DEPARTMENT FOR THIS WORK.

6. THE EXISTING WATERLINES ARE TO BE ABANDONED IN PLACE. ALL EXISTING PIPING TO BE ABANDONED SHALL BE PLUGGED OR REPLACED AS PART OF THIS PRODUCT SHALL CAPPED AT EACH END AND SHALL BE COMPLETELY REMOVED FROM SERVICE. THE METHOD OF WATERLINE ABANDONMENT SHALL BE APPROVED BY THE CONSTRUCTION ENGINEER. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK AND SHALL BE CONSIDERED SUBSIDIARY TO THE PRICE BID FOR WATERLINE CONSTRUCTION.

7. GAS LINE DEPTHS THROUGHOUT THE PROJECT VARY. THE CONTRACTOR SHALL EXPOSE THE EXISTING GAS LINES AT ALL CROSSINGS. IF THE LOCATION OF THE GAS LINE IS IN CONFLICT WITH THE PROPOSED WATERLINE, THE CONTRACTOR SHALL REPORT HIS FINDINGS TO THE ENGINEER SO NECESSARY PLAN MODIFICATIONS CAN BE MADE. CARE SHOULD BE TAKEN SO THE GAS LINES ARE NOT DAMAGED DURING CONSTRUCTION. ALL COSTS ASSOCIATED WITH LOCATING GAS LINES AND ADJUSTING WATERLINE PROFILE AS REQUIRED WILL BE SUBSIDIARY TO PIPE, COMPLETE IN PLACE.

8. THE WATER MAIN SHALL BE CONSTRUCTED ON THE ALIGNMENT SHOWN BY THE PLANS. WHEN TREES AND SHRUBS ARE IN CONFLICT WITH THE PROPOSED WATERLINE, THE FOLLOWING PARAMETERS SHALL APPLY TO WATERLINE CONSTRUCTION:
TREE DIAMETER OF 12" OR MORE– THE WATERLINE TRENCH MUST BE 10' MINIMUM FROM THE TREE. WHERE 10' CANNOT BE ACHIEVED, THE WATERLINE SHALL BE CONSTRUCTED USING DIRECTIONAL DRILLING METHODS TO A DISTANCE 10' FROM THE TREE. TREE DIAMETER OF LESS THAN 12"– THE WATERLINE TRENCH MUST BE 7' MINIMUM FROM THE TREE. WHERE 7' CANNOT BE ACHIEVED, THE WATERLINE SHALL BE CONSTRUCTED USING DIRECTIONAL DRILLING METHODS TO A DISTANCE OF 7' FROM THE TREE. ALL TREES SHALL BE SAVED AND PROTECTED FROM DAMAGE, UNLESS OTHERWISE APPROVED BY THE CONSTRUCTION ENGINEER OR SHOWN ON THE PLANS.

9. 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.

10. 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 PERFORMED WITHOUT INSPECTION IS SUBJECT TO BE UNCOVERED FOR INSPECTION.

11. 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 START OF CONSTRUCTION.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING EXISTING PROPERTY IRONS AND RIGHT-OF-WAY MONUMENTS. THE CONTRACTOR SHALL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS OR RIGHT-OF-WAY MONUMENTS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS OR MONUMENTS SHALL BE REESTABLISHED BY A LICENSED SURVEYOR IN ACCORDANCE WITH STATE LAWS. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO SITE CLEARING & RESTORATION.

13. THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, ENTRANCES, AND BANK LINES TO THEIR ORIGINAL SLOPES AND GRADES UNLESS SHOWN OTHERWISE IN THE PLANS.

14. ANY EXCESS EXCAVATION OR RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES INCLUDING ANY TREES REMOVED AND TREE TRIMMINGS SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL ALSO BE APPROVED OF BY THE ENGINEER AS TO SUITABILITY, APPEARANCE, AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, 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 US 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.

15. ALL LAWN 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 LIMITED TO, TOP SOIL PREPARATION, SEEDING, MULCH AND/OR RESEEDING. ALL SEEDING WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND THE CITY OF WICHITA ADMINISTRATIVE REGULATION NO. AR78 WHICH CITY OF WICHITA STANDARD GOVERNS CLEANUP AND RESTORATION OF REPLACEMENT FOLLOWING CONSTRUCTION. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO THE LUMP SUM PRICE BID FOR "SITE CLEARING & RESTORATION".

16. THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WITH TEMPORARY RYE GRASS. RYE GRASS SHALL BE PLANTED AT A MINIMUM RATE OF SIX (6) POUNDS PER ONE THOUSAND (1000) SQUARE FEET. THIS TEMPORARY SEEDING MAY BE OMITTED ONLY IF OTHER SEEDING IS REQUIRED IN ACCORDANCE WITH GENERAL NOTE NO. 15 ABOVE. TEMPORARY SEEDING OR PERMANENT SEEDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED.

17. INTERURBAN TRAFFIC GENERATED OUTSIDE THE PROJECT AREA AND LOCAL BUSINESS OR RESIDENTIAL TRAFFIC GENERATED WITHIN THE PROJECT AREA ARE TO BE CARRIED THROUGH CONSTRUCTION AS FURTHER PROMULGATED BY THE PROJECT SPECIAL PROVISIONS. THE CONTRACTOR SHALL UTILIZE BARRICADES, SIGNS, GUARDS, AND FLAGMEN IN FLAGMEN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO THE CITY FOR APPROVAL PRIOR TO BEGINNING WORK.

18. PAVEMENT REMOVAL AND /OR REPLACEMENT FOR THE VARIOUS PAVEMENT TYPES BID WILL BE MEASURED AND PAID FOR ON THE LINEAL FOOT BASIS AS MEASURED ALONG THE CENTERLINE OF THE WATER LINE REGARDLESS OF WIDTH , PAVEMENT TYPE AND/OR PAVEMENT THICKNESS. MINIMUM LIMITS OF SUCH PAVEMENT REMOVAL AND REPLACEMENT SHALL BE ONE FOOT BEYOND THE LIMITS OF THE EXCAVATION MADE FOR THE WATER LINE OR THE STRUCTURE, EXCEPT WHEN SUCH SAW CUTS ARE WITHIN (3) THREE FEET OF AN EXISTING JOINT. REMOVAL AND REPLACEMENT OF EXISTING PAVEMENT SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE CITY OF WICHITA STANDARD SPECIFICATIONS. CURB AND GUTTER REMOVAL AND REPLACEMENT SHALL BE CONSIDERED SUBSIDIARY TO PAVEMENT REMOVAL AND REPLACEMENT.

19. A SAW CUT OF AT LEAST ONE-HALF THE DEPTH OF EXISTING SURFACE COURSES OR ONE FOURTH THE DEPTH OF THE EXISTING TOTAL PAVEMENT THICKNESS SHALL BE PROVIDED AT LOCATIONS WHERE PROPOSED CONSTRUCTION ABUTS AN EXISTING SURFACE COURSE OR PAVEMENT IS REQUIRED, WHEN SUCH SAW CUTS ARE WITHIN THREE (3) FEET OF AN EXISTING JOINT THE LIMITS OF REMOVAL SHALL BE EXTENDED TO THE EXISTING JOINT. SUCH SAW CUTS WILL NOT BE PAID FOR DIRECTLY AND THIS COST WILL BE CONSIDERED SUBSIDIARY TO THE REMOVAL OF THE SURFACE OR PAVEMENT.

20. ALL IRRIGATION, LANDSCAPING, AND FENCING DISTURBED DURING CONSTRUCTION SHALL BE REMOVED AND RESET IN KIND. THE CONTRACTOR SHALL PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT HOURS TO THE AFFECTED PROPERTY OWNERS PRIOR TO BEGINNING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING" AND "SITE RESTORATION".

21. THE CONTRACTOR SHALL MINIMIZE WATER SERVICE INTERRUPTIONS TO PROPERTY OWNERS WITHIN THE PROJECT AREA. ANY PROPERTY OWNERS WHO WILL HAVE SERVICE INTERRUPTED SHALL BE GIVEN WRITTEN NOTICE AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE. NO PROPERTY OWNERS SHALL HAVE THEIR WATER SERVICE INTERUPPTED FOR MORE THAN A FOUR (4) HOUR PERIOD.

22. EXISTING METER BOXES, RINGS, AND LIDS SHALL BE DISPOSED OF BY THE CONTRACTOR.

23. ALL SIDEWALK REPLACEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF WICHITA STANDARDS. WHERE THE SIDEWALK IS TO BE REPLACED AT STREET INTERSECTIONS, THE CONTRACTOR SHALL CONSTRUCT WHEELCHAIR RAMPS PER THE CITY OF WICHITA STANDARD SPECIFICATIONS. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR CONCRETE SIDEWALK REMOVAL AND REPLACEMENT.

24. DIRECTIONAL DRILLING SHALL BE PERFORMED AND PAID FOR IN ACCORDANCE WITH THE SPECIFICATIONS FOR THIS PROJECT.

25. THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES (BMP'S) TO PREVENT ERODED SOIL FROM ENTERING DITCHES, STORM SEWERS. OR ANY OTHER DRAINAGE FEATURE. THE CITY OF WICHITA STANDARD DETAILS FOR SOIL EROSION BMP'S ARE A PART OF THIS SET OF PLANS AND ARE INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPE OF SOIL EROSION PROTECTION WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL BID THE PROJECT ACCORDINGLY. BMP'S SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS BY THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY SOIL EROSION BMP'S DAMAGED OR DESTROYED DURING THE CONSTRUCTION PROCESS. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE SUBSIDIARY TO PROJECT COST.

26. NEW SERVICES SHALL BE PROVIDED TO ALL LOCATIONS ALONG THE PROPOSED ALIGNMENT WHERE METERS ARE EXISTING, OR AS DIRECTED BY THE CONSTRUCTION ENGINEER. THE CONTRACTOR SHALL PROVIDE NEW 1" SERVICE TUBING. SETTER, METER, BOX, AND LID. SERVICES WILL BE BID ON A PER EACH BASIS FOR LONG AND SHORT SERVICES. LONG SERVICE LINE IS GREATER THAN 20'. SHORT SERVICE LINE LENGTH IS LESS THAN OR EQUAL TO 20'. EXISTING METERS AND SETTERS SHALL BE SALVAGED TO THE CITY OF WICHITA WATER AND SEWER DEPARTMENT. EXISTING SERVICE LINES TO BE ABANDONED SHALL BE CUT AND CAPPED. EXISTING METER BOXES, RINGS, AND LIDS SHALL BE DISPOSED OF BY THE CONTRACTOR.

CHRISTOPHER D. CRAIG LICENSED 11315 KANSAS PROFESSIONAL ENGINEER 4/1/11

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KEY MAP & GENERAL NOTES

McCormicks Water Main Replacement

City of Wichita, Sedgwick County, Kansas

REVISIONS			
DATE	COMMENTS	BY	APP.

PROJECT NO.: 08-228
DATE: 2-14-07
DRAWN: DAS
DESIGNED: DAS
CHECKED: CRY
APPROVED:

SHEET 2 of 37