FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	54-87 K-4445-01	1996	33	73

GENERAL NOTES
WATER AND SEWER SYSTEMS

1. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF TWENTY-FOUR (24) 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:

CABLEVISION	942-2525
KG&E GAS	832-3101
KG&E ELECTRIC	261-6251
ARKLA GAS COMPANY	942-8350
SOUTHWESTERN BELL TELEPHONE COMPANY	268-2245
CITY OF WICHITA WATER DEPARTMENT	268-4908
CITY OF WICHITA SEWER MAINTENANCE	268-4024

2. ALL WATER MAINS AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF WICHITA, KANSAS STANDARD SPECIFICATIONS FOR WATER MAIN INSTALLATIONS NO. 14533. SANITARY SEWER PIPELINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF WICHITA MINIMUM STANDARDS OF DESIGN AND PLAN PREPARATION FOR SANITARY SEWER CONSTRUCTION.

3. THE WATER MAIN SHALL BE CONSTRUCTED ON THE ALIGNMENT SHOWN BY THE PLANS. 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 CONSIDERED SUBSIDIARY TO THE INSTALLED WATER MAIN PIPE.

4. 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.

5. LOCAL BUSINESS OR RESIDENTIAL TRAFFIC GENERATED WITHIN THE PROJECT AREA IS TO BE CARRIED THROUGH CONSTRUCTION AS FURTHER PROMULGATED BY PROJECT SPECIAL PROVISIONS.

6. UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES 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 THE UTILITY OWNER DURING CONSTRUCTION. 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 UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE CONTRACTOR SHALL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

7. 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 FOR WHICH PARTIAL REMOVAL OF THAT SURFACE 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 JOINTS. SUCH SAW CUTS WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE REMOVAL OF THE SURFACE OR PAVEMENT.

8. THE CONTRACTOR SHALL NOTIFY PIPELINE COMPANIES AT LEAST 24 HOURS IN ADVANCE OF ANY WORK BEING PERFORMED ACROSS AND/OR ADJACENT TO PIPELINES.

9. PROPERTIES WITHIN THE PROJECT LIMITS MAY HAVE UNDERGROUND SPRINKLER SYSTEMS IN PUBLIC RIGHT-OF-WAY THAT MAY CONFLICT WITH NEW CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO REMOVE SUCH IMPROVEMENTS SHOULD THEY NOT BE REMOVED BY THEIR OWNER AT THE TIME OF CONSTRUCTION OF THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SALVAGE ALL SPRINKLER HEADS AND/OR VALVES AND GIVE SUCH MATERIAL TO THEIR OWNER. PORTIONS OF UNDERGROUND SPRINKLER SYSTEMS NOT IN CONFLICT WITH NEW CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND SHALL REMAIN IN PLACE. ALL WORK IN CONNECTION WITH UNDERGROUND SPRINKLER SYSTEMS SHALL BE CONSIDERED SUBSIDIARY TO THE CONTRACT PAY ITEMS OF WORK.

10. MAILBOXES WITHIN THE LIMITS OF THE PROJECT SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AS APPROVED BY THE ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO MAKE SATISFACTORY PROVISIONS FOR MAIL DELIVERY TO PROPERTIES AFFECTED BY THIS PROJECT DURING ITS CONSTRUCTION.

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 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 OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

13. ALL COSTS FOR REMOVAL OF EXISTING PAVEMENT SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR CLEARING RIGHT-OF-WAY AND SITE PREPARATION. ALL COSTS FOR REPLACEMENT OF EXISTING PAVEMENT SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR SITE RESTORATION. REMOVAL OF EXISTING PAVEMENT AND/OR REPLACEMENT OF EXISTING PAVEMENT SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE CITY OF WICHITA STANDARD SPECIFICATIONS. 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. WHEN SUCH LINES OF REMOVAL ARE WITHIN THREE (3) FEET OF AN EXISTING JOINT, THE LIMITS OF REMOVAL SHALL BE EXTENDED TO THE EXISTING JOINT.

14. ONLY ACTIVE BUILDING SEWER LINES WHICH CONNECT ACTUAL BUILDINGS TO THE SEWER SYSTEM ARE TO BE RECONNECTED TO THE NEW SEWER CONSTRUCTION. BUILDING SEWER LINES AND/OR CONNECTIONS WHICH HAVE BEEN ABANDONED ARE NOT TO BE RECONNECTED TO THE NEW SEWER CONSTRUCTION. IT WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN WHICH SUCH BUILDING SEWER LINES AND/OR CONNECTIONS HAVE BEEN ABANDONED. ALL WORK INVOLVED WITH BUILDING SEWER LINE CONSTRUCTION AND/OR BUILDING SEWER CONNECTIONS SHALL CONFORM TO THE APPLICABLE SECTION OF THE CITY OF WICHITA STANDARD SPECIFICATIONS.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS FLOW OF SEWAGE THROUGH CONSTRUCTION. CONTRACTOR'S PROPOSED METHOD FOR MAINTAINING SEWAGE FLOW SHALL BE APPROVED BY THE CONSTRUCTION PROJECT ENGINEER. COST OF MAINTAINING FLOW OF SEWAGE THROUGH CONSTRUCTION WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE OTHER PAY ITEMS OF WORK. REPLACEMENT SHALL BE ONE FOOT BEYOND THE LIMITS OF THE EXCAVATION MADE FOR THE SEWER OR THE STRUCTURE, EXCEPT WHEN THE LINES OF REMOVAL SHALL BE EXTENDED TO THE EXISTING JOINT. REMOVAL AND REPLACEMENT OF EXISTING PAVEMENT SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE CITY OF WICHITA STANDARD SPECIFICATIONS.

16. ALL NEWLY CONSTRUCTED MANHOLES SHALL BE CITY OF WICHITA STANDARD TYPE P OR C WITH A 4' INSIDE DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.

17. ELEVATIONS CALLED OUT FOR EXISTING MANHOLES ARE APPROXIMATE. MANHOLES CONSTRUCTED OVER EXISTING LINES MUST MATCH EXISTING FLOWLINE ELEVATION.

18. RIM ELEVATION OF NEW MANHOLES ARE BASED ON FINISH GRADE ELEVATIONS. RIM ELEVATIONS MAY NEED TO BE ADJUSTED AS FIELD CONDITIONS REQUIRE TO ALLOW DRAINAGE TO FLOW AWAY FROM THE MANHOLE. WHEN MANHOLES ARE LOCATED IN TEMPORARY PAVEMENT, RIM ELEVATIONS ARE TO BE ADJUSTED TO MATCH THE TEMPORARY PAVEMENT ELEVATIONS.

19. ALL DIMENSIONS CALLED OUT ARE FROM PIPE CENTER-TO-CENTER.

20. ABANDON AND PLUG EXISTING WATER AND SANITARY SEWER LINES IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS.

21. REMOVE ABANDONED SANITARY SEWER AND WATER LINES AS NECESSARY TO AVOID CONFLICTS WITH CONSTRUCTION AND CAP OR PLUG PIPE ENDS IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS. THE COST OF CAPPING OR PLUGGING THE ENDS OF WATER AND SEWER LINES SHALL BE SUBSIDIARY TO THE PIPE INSTALLATION AND SHALL NOT BE BID OR PAID FOR SEPARATELY.

22. PIPELINE STATIONING IS APPROXIMATE. POSITION MANHOLES BASED ON PLAN DIMENSIONS.

23. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE SIZE OF THRUST BLOCKING REQUIRED TO RESIST THRUST FORCES IN THE WATER LINE. WHERE RESTRAINED JOINTS ARE USED, THE CONTRACTOR SHALL DETERMINE THE NUMBER OF RESTRAINED JOINTS REQUIRED TO RESIST THRUST FORCES IN THE WATER LINE.

24. STEEL CASING SIZES FOR ENCASED PIPELINES SHALL BE DETERMINED ACCORDING TO CITY OF WICHITA STANDARD SPECIFICATIONS.

25. INSTALL AIR RELEASE ASSEMBLIES IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS AND DETAILS.

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1				

CITY OF WICHITA

GENERAL NOTES
WATER AND SANITARY SEWER

SHEET NO. OF	SCALE NO SCALE	APP'D JLM	
DESIGNED WLL	DETAILED WLL	QUANTITIES	TRACED MEK
DESIGN CK. JLM	DETAIL CK. WLL	QUAN.CK.	TRACE CK. WLL

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