

FUTURE 30" WATERLINE (BY OTHERS)

GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE U.S.G.S. DATUM (NGVD29).
2. 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:

EMERGENCY DISPATCH	911
COX COMMUNICATIONS	1(800)778-9140
KANSAS GAS SERVICE	1(888)-482-4950
WESTAR ENERGY	1(800)383-1183
BLACK HILLS ENERGY	1(800)-694-8989
AT&T	1(800)-286-8313
CITY OF WICHITA WATER DEPARTMENT	262-6000
CITY OF WICHITA SEWER MAINTENANCE	262-6000

3. ALL WATER MAINS AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF WICHITA, KANSAS STANDARD SPECIFICATIONS.
4. 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 SUBSIDIARY TO "SITE CLEARING".
5. 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.
6. 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.
7. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ADJACENT TO THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION.
8. 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 SUBSIDIARY TO SITE RESTORATION.
9. THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, ENTRANCES, AND BANKLINES TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE.
10. NO SERVICES WILL BE INSTALLED AS PART OF THIS PROJECT.

11. 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 PROJECT SPECIAL PROVISIONS. THE CONTRACTOR SHALL UTILIZE BARRICADES, SIGNS, GUARDS, AND FLAGMEN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ALL TRAFFIC CONTROL REQUIRED TO COMPLETE WATERLINE CONSTRUCTION SHALL BE SUBSIDIARY TO WATERLINE PROJECT COSTS. TRAFFIC CONTROL REQUIRED FOR WATERLINE CONSTRUCTION IS INDEPENDENT OF TRAFFIC CONTROL REQUIRED FOR THE HIGHWAY IMPROVEMENT.

12. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES INCLUDING ANY TREES REMOVED AND TREE TRIMMINGS AND EXCESS EXCAVATED MATERIAL 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 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.

13. THE CONTRACTOR SHALL AVOID REMOVAL OR TRIMMING OF ANY TREES OR SHRUBS WHERE POSSIBLE. WHERE THE CONTRACTOR BELIEVES THE REMOVAL OR TRIMMING IS UNAVOIDABLE, HE SHALL COORDINATE SUCH WORK WITH THE ENGINEER. COSTS FOR TREE/SHRUB REMOVAL AND TRIMMING REGARDLESS OF SIZE SHALL BE CONSIDERED SUBSIDIARY TO THE LUMP SUM PRICE BID FOR "SITE CLEARING".

14. 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 REGARD TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE SITE.

15. CONTRACTOR SHALL PROVIDE MATERIALS FOR TEMPORARY BLOWOFF OF WATERLINES. CONNECTIONS TO THE EXISTING WATERLINE SHALL BE MADE WITH CLEAN, SWABBED PIPE, AND FLUSHED UPON COMPLETION OF TIE-INS.

16. REQUESTS FOR SHORT TERM WATER SERVICE INTERRUPTIONS SHALL BE MADE TO THE CITY WATER AND SEWER DEPARTMENT AND WILL BE SUBJECT TO THEIR APPROVAL. SUBJECT TO THEIR APPROVAL, THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ANY PROPERTY OWNER, BUSINESS, AND/OR TENANTS THAT WILL HAVE WATER SERVICE INTERRUPTED AT LEAST 5 DAYS IN ADVANCE. SUCH NOTIFICATIONS SHOULD INDICATE THE TIME AND DATE THAT THE WATER WILL BE TURNED OFF AND WHEN THE SERVICE WILL BE RESTORED. NO BUSINESS, PROPERTY OWNER, AND/OR TENANT SHALL BE WITHOUT WATER SERVICE FOR MORE THAN 8 HOURS. PROPOSED TIE IN LOCATIONS WHICH WILL AFFECT WATER SERVICE TO PROPERTY OWNERS SHALL BE PERFORMED DURING NON-PEAK HOURS. THE CONTRACTOR'S PROPOSED SEQUENCING FOR TAPPING THE EXISTING WATER MAINS SHALL BE FURNISHED TO THE ENGINEER FOR APPROVAL.

17. PAVEMENT REMOVAL AND/OR REPLACEMENT 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 1.0 FOOT BEYOND THE LIMITS OF THE EXCAVATION MADE FOR THE WATER LINE OR THE STRUCTURE, EXCEPT WHEN SUCH SAW CUTS ARE WITHIN ONE 3.0 FEET OF AN EXISTING JOINT THE LIMITS 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 SPECIFICATION. PAVEMENT REMOVAL AND REPLACEMENT FOR THE WATERLINE CONSTRUCTION SHALL BE INDEPENDENT OF THE STREET CONSTRUCTION.

18. 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 ADJUTS AN EXISTING SURFACE COURSE OR PAVEMENT FOR WHICH PARTIAL REMOVAL OF THAT SURFACE OR PAVEMENT IS REQUIRED, WHEN SUCH SAW CUTS ARE WITHIN ONE 3.0 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 SHALL BE CONSIDERED AS SUBSIDIARY TO THE REMOVAL OF THE SURFACE OR PAVEMENT.

19. THE CONTRACTOR MUST SCHEDULE THE CONNECTIONS TO THE EXISTING MAINS WITH THE CITY SUCH THAT THERE IS A MINIMUM DISRUPTION OF SERVICE. CONNECTIONS SHALL BE MADE DURING PERIODS OF LOW WATER USAGE. THE CONTRACTOR SHALL SUBMIT HIS PROPOSED SCHEDULE FOR CITY APPROVAL FOR COMPLETING WORK AT LEAST 10 DAYS PRIOR TO BEGINNING CONSTRUCTION.

20. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE PROPERTIES IN THE PROJECT AREA DURING CONSTRUCTION OF THE WATER MAINS. THE TEMPORARY CLOSINGS OF ANY STREETS OR ACCESS DRIVES SHALL BE KEPT TO A MINIMUM AND APPROVED BY THE ENGINEER. CONSTRUCTION AFFECTING ACCESS TO PROPERTIES MAY BE REQUIRED TO BE PERFORMED DURING NON-PEAK HOURS. REMOVAL OF DRIVEWAYS SHALL BE APPROVED BY THE ENGINEER.

21. ALL VALVE BOXES SHALL BE ADJUSTED TO FINAL GRADE AS DIRECTED BY THE ENGINEER. ALL VALVE BOXES SHALL HAVE CAST IRON RING AND LID AND SUCH LID SHALL HAVE THE WORD "WATER" EMBEDDED INTO ITS SURFACE. ALL VALVE BOX PARTS (UNLESS EXPLICITLY STATED OTHERWISE) SHALL BE MADE OF DUCTILE IRON OR POLYIRON MATERIALS. ANY VALVE WITH ITS OPERATING NUT MORE THAN 5 FEET BELOW FINAL GRADE SHALL HAVE A KEY EXTENSION INSTALLED AND THE TOP OF SUCH KEY EXTENSION SHALL BE 3 FEET BELOW FINAL GRADE. SUCH KEY EXTENSION SHALL BE MADE FROM 2 INCH STRUCTURAL STEEL TUBING WITH A BASE TO FIT OVER, AROUND, AND ATTACH TO THE VALVE OPERATING NUT. THE KEY EXTENSION SHALL BE SECURELY FASTENED TO THE VALVE BY BOLTING OR WELDING TO THE VALVE OPERATOR AND/OR THE VALVE STEM. THE TOP WILL BE ENCLOSED SQUARE STEEL TUBING THE SIZE OF THE STANDARD OPERATING NUT AND SHALL HAVE A CIRCULAR PIECE OF 1/2 INCH FLAT STEEL AS A DIRT COLLAR AND TO PREVENT EXCESSIVE MOVEMENT IN THE VALVE BOX. THE INSPECTOR SHALL SEE THAT THIS REQUIREMENT IS MET AND SHALL NOTE KEY EXTENSION LENGTHS ON AS-BUILTS.

22. THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED ON THE PLANS. THE FOLLOWING QUANTITIES ARE ESTIMATED, AND SHOULD BE CONSIDERED THE MINIMUM EFFORT REQUIRED. THE GENERAL LOCATION OF THE REQUIRED EROSION CONTROL IS ILLUSTRATED IN THE PLANS. THE WATERLINE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL SHOWN THROUGH THE COMPLETION OF THIS PROJECT. INSTALLATION OF THESE BMP'S DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION.

SILT FENCE BARRIER 346 L.F.

23. DEFLECTIONS AT PIPE JOINTS OR COUPLINGS SHALL NOT EXCEED THE PIPE MANUFACTURER'S RECOMMENDED MAXIMUM. WHERE REQUIRED DEFLECTIONS ARE GREATER THAN THE MAXIMUM ALLOWED, THE CONTRACTOR SHALL UTILIZE C/M LONG SLEEVES OR MULTIPLE JOINTS.

24. THE CONTRACTOR SHALL PROVIDE THREADED RODS AND COLLARS TO ANCHOR VALVES AND SLEEVES TO PROPOSED RESTRAINED JOINT PIPING, AS SHOWN IN THE PLANS. THREADED RODS AND COLLARS SHALL BE HIGH STRENGTH, HEAT TREATED CORTEN STEEL AND SHALL CONFORM TO ASTM A242, TYPE 2, AS MANUFACTURED BY STAR NATIONAL PRODUCTS OR APPROVED EQUAL. THE NUMBER OF TIEBOLT RESTRAINERS AND FASTENING METHOD SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. THE BOLTS SHALL BE DESIGNED FOR A TOTAL DESIGN PRESSURE OF 200 PSI.

25. SEE STREET PLANS (472-84915) FOR ADDITIONAL HORIZONTAL AND VERTICAL CONTROL INFORMATION.

SECTION CORNERS

Southwest Cor. Sec. 25, T27S, R2W
5/8" Rebar in thimble
1. N: 1,677,309.2963, E: 1,602,361.6608
2. Ctr. east bound lanes 6.46' S
3. Ctr. west bound lanes 47.93' N
4. KDOT nail/washer east face power pole 70.26' SW
5. KDOT nail/washer west face power pole 96.67' SE
6. 3 nails south face power pole 114.20' NW

Northwest Cor., Southwest 1/4 Sec. 25, T27S, R2W
1" Iron pipe
1. N: 1,679,937.9000, E: 1,602,332.9699
2. Chis. "+ east hdwl. RCB 15.01' SE
3. Chis. "+ west hdwl. RCB 15.03' SW
4. 80d nail NE face 10" elm 34.32' NW
5. Nail/shiner NW face power pole 59.52' NE

BENCHMARK LIST

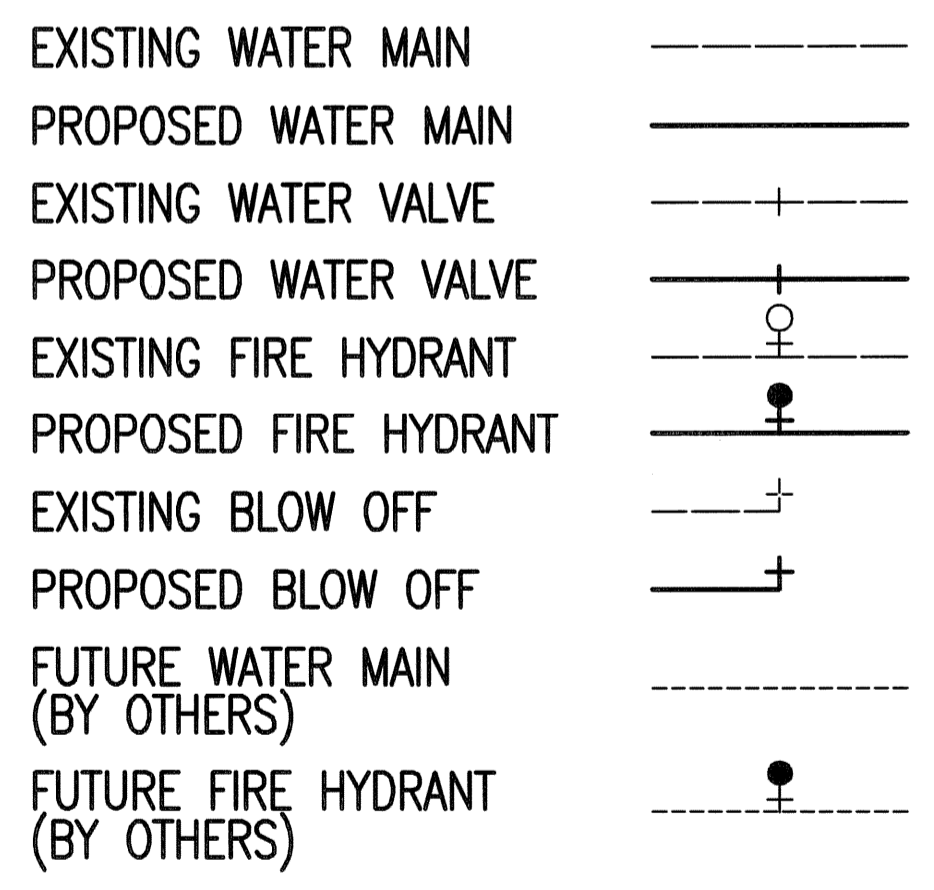
BM#R16 - SQUARE CUT CENTER FRONT CURB INLET ON WEST SIDE 135TH ST. W., ± 350FT. N OF E KELLOGG. 135TH ST. W. & STA. 203+70.82, 38.34' LT. ELEV.=1358.48 (NGVD29)

BM#R16A - SET "T" POST EAST SIDE 135TH ST. W., NORTH OF KELLOGG ADJACENT TO #1349 S. 135TH ST. W. IN LINE WITH POWER LINE N-S. 135TH ST. W. & STA. 216+28.86, 32.08' RT. ELEV.=1345.91 (NGVD29)

BM#16F - SET "T" POST E SIDE 135TH ST. W. N OF KELLOGG 300' S OF #1151 S. 135TH W. 15' E OF POWER LINE N-S. 135TH ST. W. & STA. 223+98.28, 4812' RT. ELEV.=1347.68 (NGVD29)

BM#16G - SQUARE CUT ON TOP OF CURB, W SIDE OF 135TH ST. W., 145' S TO E ONEWOOD ST., 135TH ST. W. & STA. 232+47.76, 22.05' LT. ELEV.=1348.17 (NGVD29)

LEGEND



Solved 02-22-2013 8:09:47 AM by REJ
 Plot Scale 1:150 02-22-2013 8:15:14 AM by REJ
 C:\2010\10281\001\10281-001_C2_Key Map & General Notes

No.	Revision	By	Date
	135TH ST. W. - KELLOGG AVENUE (U.S. 54) TO ONEWOOD WATERLINE IMPROVEMENTS		
KEY MAP AND GENERAL NOTES			
GARY JANZEN, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 448-90579			
		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com	
Designed by	MDK	Job No.	35-10281-001
Drawn by	TDS	Date	July 2011
			Sht. B2 of 12