

GENERAL NOTES

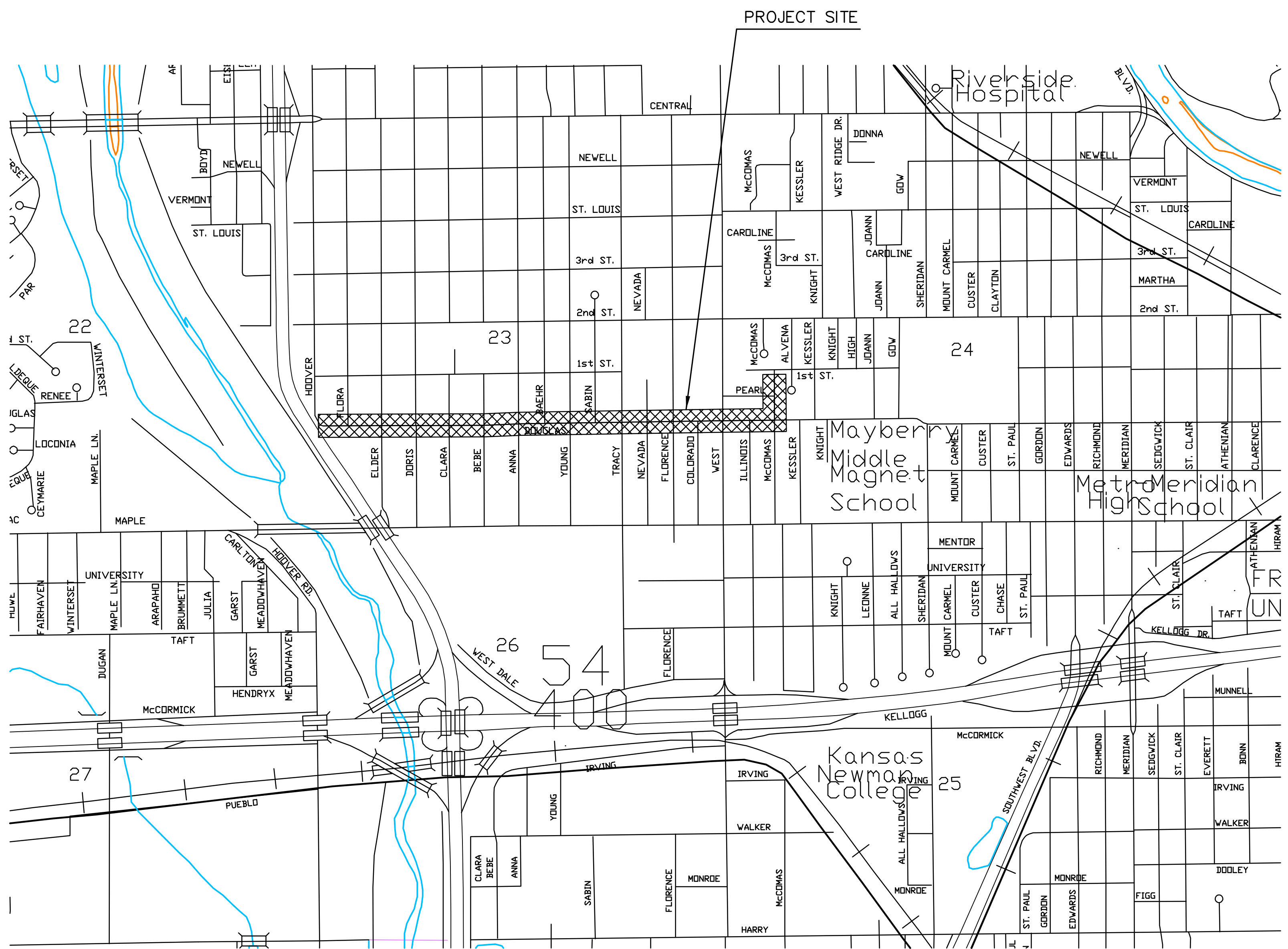
- UTILITY CONTACTS:** CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:
 KANSAS ONE-CALL (TOLL FREE) 1-800-344-7233
 OR LOCAL (WICHITA) 687-2470
 THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF EMERGENCY:
 COX CABLEVISION 1-316-262-0661
 KG&E (ELECTRIC) 1-316-383-8600
 KANSAS GAS SERVICE 1-316-383-8600
 SOUTHWESTERN BELL TELEPHONE COMPANY 1-800-286-8313
 AQUILA NETWORK 1-800-303-0357
 CITY OF WICHITA WATER & SEWER MAINT. 1-316-262-6000
 WILLIAMS NATURAL GAS 1-800-324-9696
- WATER LINE CONSTRUCTION:** ALL WATER MAINS AND APPURTENANCES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CITY OF WICHITA, KANSAS STANDARD SPECIFICATIONS FOR WATER MAIN INSTALLATIONS.
- TREES AND SHRUBS:** THE WATER MAIN SHALL BE CONSTRUCTED ON THE ALIGNMENT SHOWN ON 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, AND SHALL BE INCLUDED IN THE PRICE BID FOR THE INSTALLED WATER PIPE. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
- WATER VALVES:** 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.
- START OF CONSTRUCTION:** 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.
- EXISTING UTILITIES:** 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. 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 LOCATION. CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
- CONSTRUCTION NOTICE:** THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECT NOTICE OF THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.
- PROPERTY IRONS:** 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. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO SITE RESTORATION.
- SITE GRADING RESTORATION:** THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, ENTRANCES AND BANK LINES TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE.
- TRAFFIC CONTROL:** 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.
- DEMOLITION:** RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES INCLUDING ANY TREES REMOVED AND TREE TRIMMINGS 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 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 REQUIRES 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. ANY PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR.
- SITE RESTORATION:** 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. AR78 WHICH GOVERNS CLEANUP AND RESTORATION OR REPLACEMENT FOLLOWING CONSTRUCTION. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO THE SITE RESTORATION BID ITEM.
- TRACER WIRE:** THE CONTRACTOR SHALL LAY A TRACER WIRE & SET TEST STATIONS ALONG ALL WATER LINE PIPE THEY INSTALL IN ACCORDANCE WITH CITY OF WICHITA SPECIFICATIONS & TRACER WIRE DETAIL ON DETAIL SHEET. COST IS SUBSIDIARY TO PIPE INSTALLATION.
- DISTURBED SURVEY POINTS:** ALL MARKERS AND MKEC DESIGN POINTS DISTURBED BY THIS CONSTRUCTION SHALL BE REPLACED IN LIKE KIND.
- WATER SERVICE LINES:** THE CONTRACTOR IS RESPONSIBLE FOR KEEPING WATER SERVICE LINES INTACT AND OPERATIONAL DURING THE CONSTRUCTION PROJECT. THE 36" WATER LINE MUST BE LOCATED BENEATH EXISTING SERVICE LINES, AND SPACING FOR RECONNECTION OF WATER SERVICE LINES WILL NOT BE ALLOWED.
- CONSTRUCTION SEQUENCE:** AT ALL TIMES DURING CONSTRUCTION, A MINIMUM OF THREE BLOCKS OF STREET MAY BE CLOSED AT ANY TIME. IT IS INTENDED THAT TRENCHING WILL BE CONDUCTED IN ONE BLOCK, CONSTRUCTION AND PIPELINE INSTALLATION IN THE NEXT BLOCK, AND SITE RESTORATION WORK IN THE FINAL BLOCK OF THE THREE. THE CONTRACTOR SHALL CONTINUE THIS PROCEDURE THROUGHOUT THE ENTIRE DURATION OF THE PROJECT.
- EROSION MAT:** ALL DISTURBED AREAS SHALL BE COVERED WITH A CITY APPROVED EROSION MAT SUCH AS CURLEX I EXCELSIOR EROSION MAT OR APPROVED EQUAL. COST OF SUCH EROSION MAT SHALL BE CONSIDERED SUBSIDIARY TO THE BMP BID ITEM AND SHALL NOT BE BID FOR SEPARATELY.
- CONSTRUCTION SCHEDULE:** THE CONTRACTOR SHALL PREPARE A CONSTRUCTION SCHEDULE FOR THE ENGINEER'S REVIEW PRIOR TO BEGINNING CONSTRUCTION.
- MAIL BOXES:** THE CONTRACTOR SHALL PREPARE A TEMPORARY MAIL BOX LOCATION PLAN TO ADDRESS MAIL SERVICE FOR RESIDENTS ON BOTH SIDES OF STREET AFFECTED DURING CONSTRUCTION. THIS PLAN IS REQUIRED TO BE APPROVED & SIGNED BY THE POST MASTER GENERAL. COPIES OF THIS PLAN SHALL BE PROVIDED THE THE INSPECTOR, ENGINEER, AND CITY WATER DEPARTMENT BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL CONSULT THE POST MASTER GENERAL TO DETERMINE THE MOST EFFECTIVE MEANS OF PROVIDING TEMPORARY MAIL BOXES BASED ON THE REQUIRED CONSTRUCTION SEQUENCE.
- DECHLORINATION OF TEST WATER:** FLUSHING WATER USED TO PIPELINE DISINFECTION SHALL BE DISCHARGED INTO THE KNOT BOX CULVERT LOCATED AT DOUGLAS AND HOOVER. PRIOR TO DISCHARGE, THE WATER SHALL BE DECHLORINATED TO NEUTRALIZE THE CHLORINE USED FOR DISINFECTION TO SAFE DISPOSAL LEVELS PER KDHE AND CITY OF WICHITA STANDARDS. APPROVED EQUIPMENT AND PROCEDURES ARE AS INDICATED IN THE PROJECT SPECIAL PROVISIONS.

BENCHMARKS

- BM#1
COW DISC W SIDE CONCRETE BASE FOR WESTAR TOWER SE COR. OF HOOVER & 2nd POSTED 120.47. ELEV.=120.47
- BM#2
TC N. RETURN NE COR. DOUGLAS & ELDER ELEV.=118.11
- BM#3
TC MIDPOINT OF CURVE NE COR. DOUGLAS & CLARA ELEV.=117.995
- BM#4
TC N. RETURN NW COR. DOUGLAS & ANNA ELEV.=118.21
- BM#5
STEP SPIKE S. FACE OF PP @ NW COR. DOUGLAS & YOUNG. ELEV.=120.215
- BM#6
TC S. END OF NW COR. DOUGLAS & TRACY ELEV.=118.21
- BM#7
TC 1.0' N. OF SOUTH END OF CURB NE CORNER DOUGLAS & FLORENCE ELEV.=119.04
- BM#8
INSPECTOR E. RETURN NE COR. DOUGLAS & WEST IN FRONT OF FIRE HYDRANT. ELEV.=117.845
- BM#9
TC 1.5' S. OF N RETURN NW COR. DOUGLAS & MCCOMAS ELEV.=117.395

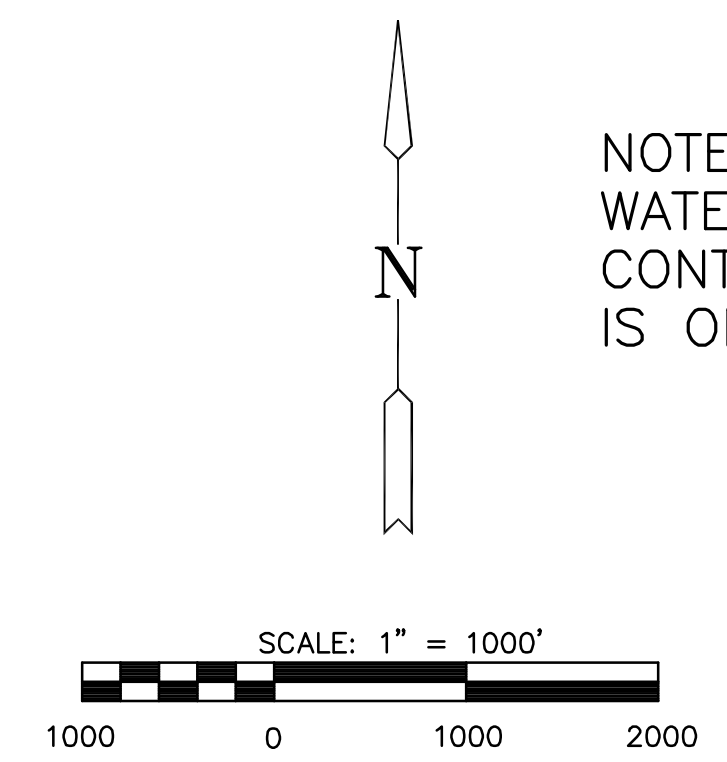
HORIZONTAL CONTROL

- HC#1
IRON WITH RED MKEC D.P. CAP. N 1684913.139, E 1634590.515 ELEV.=1305.060
- HC#2
IRON WITH RED MKEC D.P. CAP. N 1684809.063, E 1633670.860 ELEV.=1306.432
- HC#3
IRON WITH RED MKEC D.P. CAP. N 1684835.774, E 1632868.105 ELEV.=1306.788
- HC#4
IRON WITH RED MKEC D.P. CAP. N 1684774.502, E 1632023.841 ELEV.=1305.060
- HC#5
IRON WITH RED MKEC D.P. CAP. N 1684798.883, E 1631203.851 ELEV.=1306.090
- HC#6
IRON WITH RED MKEC D.P. CAP. N 1684783.903, E 1630430.524 ELEV.=1306.435
- HC#7
IRON WITH RED MKEC D.P. CAP. N 1684711.030, E 1629473.575 ELEV.=1306.083
- HC#8
IRON WITH RED MKEC D.P. CAP. N 1684696.663, E 1628788.387 ELEV.=1305.021



LEGEND

- | | | |
|---------------------------------|----------------------------------|---|
| ● GM - GAS METER | ● POLE - POLE | TSFMR - TRANSFORMER |
| ● YLG - YARD LIGHT | - GATE | — DHE — DHE — OVERHEAD ELECTRIC LINE (DHE) |
| ● ELECT MH - ELECTRIC MANHOLE | TRAF MH - TRAFFIC SIGNAL MANHOLE | — E — E — UNDERGROUND ELECTRIC LINE (ELECT) |
| ● SIG LIGHT - SIGNAL LIGHT | △ - SECTION CORNER | — SWS — SWS — STORM SEWER PIPE (SWS) |
| ☆ 6IN - TREE AND DIAMETER | * SPK - SPRINKLER HEAD | — W — W — WATER LINE (WTR) |
| ☆ 3IN - TREE AND DIAMETER | ● LP - LIGHT POLE | — SSS — SSS — SANITARY SEWER LINE (SS) |
| — SN - SIGN | ● FH - FIRE HYDRANT | — G — G — GAS LINE |
| ● IP - IRON BAR | ● WV - WATER VALVE | — T — T — TELEPHONE LINE (TELE) |
| ○ - BUSH | ○ WM - WATER METER | — XS — XS — TRAFFIC SIGNAL CONDUIT |
| ■ PP - POWER POLE AND DEADMAN | □ ICV - IRRIGATION CONTROL VALVE | — RW — RW — RETAINING WALL |
| ■ KGE - ELECTRIC BOX | ■ - GRATE INLET | — CP — CP — CONCRETE PAVMENT |
| ● CD - CLEANOUT | □ TR - TELEPHONE RISER | — AP — AP — ASPHALT PAVMENT |
| — ET — ET — EDGE OF TREES | □ MB - MAIL BOX | — GR — GR — GRAVEL |
| — FX — FX — FENCE | BL - BASELINE | |
| ● BM - BENCHMARK | CL - CENTERLINE | |
| ○ SWMH - STORM WATER MANHOLE | STA - STATION | |
| ○ SSMH - SANITARY SEWER MANHOLE | EX - EXISTING | |
| ● SWB - TELEPHONE MANHOLE | WL - WATERLINE | |
| | STA - STATION | |
| | BLD COR - BUILDING CORNER | |



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

36" WATER MAIN IN DOUGLAS FROM McCOMAS TO FLORA

PROJECT NAME

MKEC
ENGINEERING
CONSULTANTS, INC.

411 N. WEBB ROAD
WICHITA, K.S. 67206
316-684-9600

KEY MAP, GENERAL NOTES, & LEGEND

SHEET TITLE

BDM DESIGN BY:	BDM DRAWN BY:	SCU CHECKED BY:
JULY, 2006 DATE	05307_CK DRAWING NAME	2 / 23 SHEET 7 OF