

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS TO COMPLY WITH CITY OF WICHITA STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT THEY 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.
- AT LEAST 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT 1-316-687-2470 OR 811 TO REQUEST THE LOCAL UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA.
- THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

EMERGENCY DISPATCH	911
AT&T	800-246-8464
CITY OF WICHITA WATER & SEWER	316-219-8921
CITY OF WICHITA STORMWATER	316-268-4090
CITY OF WICHITA TRAFFIC	316-268-4034
BLACK HILLS ENERGY	800-694-8989
COX COMMUNICATIONS	888-249-3530
KANSAS GAS SERVICE	888-482-4950
EVERGY	800-544-4857
- 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 THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION AT THE CONTRACTORS EXPENSE
- ALL ELEVATIONS SHOWN ARE NAVD88 DATUM. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL RE-ESTABLISH CONTROL POINTS AND BENCH MARKS AND VERIFY THEIR ACCURACY.
- EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE DRAWINGS, 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. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL HAVE ALL BURIED LINES LOCATED AND FLAGGED IN THE FIELD PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND REVIEW ALL BURIED LINES LOCATED TO DETERMINE IF CONFLICTS EXIST. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION. 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.
- 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 THEIR 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".
- EASEMENTS AND RIGHT-OF-WAY PROVIDED BY THE OWNER FOR THE PROJECT ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF ANY ADDITIONAL TEMPORARY EASEMENTS DESIRED TO USE IN COMPLETING THE WORK.
- THE CONTRACTOR SHALL CONTAIN THEIR OPERATIONS TO PERMIT LOCAL AND EMERGENCY TRAFFIC THROUGH AND ACROSS CONSTRUCTION AT ALL TIMES. INTERURBAN TRAFFIC GENERATED OUTSIDE THE PROJECT AREA AND LOCAL BUSINESS OR RESIDENTIAL TRAFFIC GENERATED WITHIN THE PROJECT AREA ARE TO BE CARRIED THROUGH CONSTRUCTION. THE CONTRACTOR SHALL UTILIZE WARNING SIGNS, FLASHING LIGHTS, BARRICADES, AND FLAGMEN IN COMPLIANCE WITH LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) TO ENSURE SAFETY.
- 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 AVOID REMOVAL OR TRIMMING OF ANY TREES OR SHRUBS WHERE POSSIBLE. 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". FULL TREE REMOVAL SHALL BE NOTED ON THE PLANS AND SHALL BE BID AS "TREE REMOVED, LARGE", "TREE REMOVED, SMALL", OR "TREE ROW REMOVED".
- THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, AND BANKS TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE. WHERE EXISTING ENTRANCE PIPE, DRAINAGE PIPE, SIGNS, FENCES, IRRIGATION, LANDSCAPING, ETC., CONFLICT WITH THE PROPOSED WORK HEREIN, THEY SHALL BE REMOVED AND REPLACED OR RESET, UNLESS OTHERWISE NOTED ON THE DRAWINGS. THE REPLACEMENT OF ALL THE AFOREMENTIONED ITEMS SHALL BE CONSIDERED SUBSIDIARY TO "SITE RESTORATION".
- THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL THROUGH THE COMPLETION OF THIS PROJECT. INSTALLATION OF THESE EROSION CONTROL DEVICES DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION. THE FOLLOWING QUANTITIES ARE ESTIMATED, AND SHOULD BE CONSIDERED THE MINIMUM EFFORT REQUIRED.

SILT FENCE BARRIER	104 L.F.
INLET PROTECTION	2 EACH
- THE CONTRACTOR SHALL TAKE CARE TO PREVENT SILT AND DEBRIS FROM ENTERING ANY STORM DRAINAGE SYSTEM DURING CONSTRUCTION. PIPES OR STRUCTURES WHICH CONTAIN MATERIALS FROM THE CONTRACTORS ACTIVITIES SHALL BE THOROUGHLY CLEANED BY THE CONTRACTOR, AT THEIR OWN EXPENSE, PRIOR TO THE FINAL INSPECTION.
- 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, MULCHING, AND/OR RE-SEEDING. 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 "SEEDING".
- 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 PERMANENT SEEDING/SODDING IS APPLIED. TEMPORARY SEEDING OR PERMANENT SEEDING/SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED. ALL COSTS FOR TEMPORARY RYE GRASS SEEDING SHALL BE CONSIDERED SUBSIDIARY TO "SEEDING, TEMPORARY".

- THE OWNER HAS ACQUIRED THE KDOT PERMIT FOR USE OF RIGHT OF WAY WITHIN KELLOGG RIGHT OF WAY. A COPY OF THE PERMIT WILL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST. CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS.
- THE CONTRACTOR MUST SCHEDULE THE CONNECTIONS TO THE EXISTING WATER MAINS WITH THE CITY SUCH THAT THERE IS MINIMUM DISRUPTION TO THE CITY.
- CONTRACTOR SHALL PROVIDE MATERIALS AS NECESSARY FOR TEMPORARY BLOW OFF OF WATERLINE FOR CONNECTIONS TO THE EXISTING WATERLINE. WATERLINE MATERIALS AT TIE-INS SHALL BE CONSTRUCTED WITH CLEAN, SWABBED PIPE AND FLUSHED UPON COMPLETION OF TIE-INS.
- WATERLINES SHALL HAVE A MINIMUM DEPTH OF BURY OF 42 INCHES, UNLESS SHOWN OTHERWISE.
- ALL TRENCHING AND BACKFILLING SHALL BE TYPE I OR III UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL VALVE BOX COVERS.
- THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- 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.
- CONTRACTOR SHALL ABANDON THE EXISTING WATER MAIN TO THE LIMITS SHOWN ON THE PLAN SHEETS. ALL WATERLINES TO BE ABANDONED SHALL BE CUT AND CAPPED/PLUGGED AS APPROVED BY THE ENGINEER. ANY VALVES/FITTINGS TO BE ABANDONED IN PLACE SHALL BE PROPERLY PLUGGED. ALL WORK ASSOCIATED WITH ABANDONMENT OF EXISTING WATERLINES SHALL BE INCLUDED IN THE LUMP SUM BID ITEM FOR "WATERLINE ABANDONMENT".
- THE CONTRACTOR SHALL MINIMIZE SERVICE DISRUPTION TO PROPERTY OWNERS AND SHALL PROVIDE 48 HOURS WRITTEN NOTICE TO ANY PROPERTY OWNERS THAT WILL HAVE A LOSS OF SERVICE.
- RESTRAINED JOINT DUCTILE IRON PIPE SHALL BE U.S. PIPE TR FLEX, AMERICAN FLEX RING, OR APPROVED EQUAL, IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS. RESTRAINED JOINT PVC PIPE SHALL BE NORTH AMERICAN CERTA-LOK PIPE, OR APPROVED EQUAL, IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS.
- THE EXISTING 42" RCP STORM WATER SEWER FROM SDA 15 TO SWS 5 SHALL BE TV INSPECTED BEFORE AND AFTER CONSTRUCTION. THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID ITEMS "PRE-TV INSPECTION" AND "POST-TV INSPECTION". ANY DAMAGE CAUSED TO THE STORM WATER SEWER DUE TO CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR.

BENCH MARK LIST

BMK-201
SQUARE CUT ON THE WEST SIDE OF S OSAGE ST. AND THE SOUTH CURB RETURN OF THE DRIVE FOR 523 S OSAGE ST. ±15' NORTH TO THE CENTERLINE OF THE DRIVE. ±24' EAST TO THE CENTERLINE OF OSAGE ST. ±50' SOUTHEAST TO HCP-101.
ELEV.= 1298.58 (NAVD88)

BMK-202
SQUARE CUT ON THE SOUTHWEST CORNER OF THE CONCRETE PAD ON THE EAST SIDE OF S OSAGE ST. AND NORTH OF THE FRONTAGE ROAD ON THE NORTH SIDE OF KELLOGG. ±9' NORTH TO THE NORTH RIGHT-OF-WAY FENCE. ±43' SOUTH TO THE NORTH BACK OF CURB ALONG THE FRONTAGE ROAD.
ELEV.= 1299.30 (NAVD88)

BMK-203
SQUARE CUT ON THE NORTHEAST CORNER OF THE CONCRETE PAD EAST OF S OSAGE ST. AND SOUTH OF THE FRONTAGE ROAD ON THE SOUTH SIDE OF KELLOGG. ±19' SOUTH TO THE SOUTH RIGHT-OF-WAY FENCE. ±77' WEST TO THE CENTERLINE OF OSAGE ST. EXTENDED.
ELEV.= 1298.51 (NAVD88)

BMK-204
SQUARE CUT ON THE EAST CURB RETURN ON THE SOUTHEAST CORNER OF THE INTERSECTION OF E HENDRYX ST. AND S OSAGE ST. ±16' NORTH TO THE CENTERLINE OF HENDRYX ST. ±41' WEST TO THE CENTERLINE OF OSAGE ST.
ELEV.= 1296.33 (NAVD88)

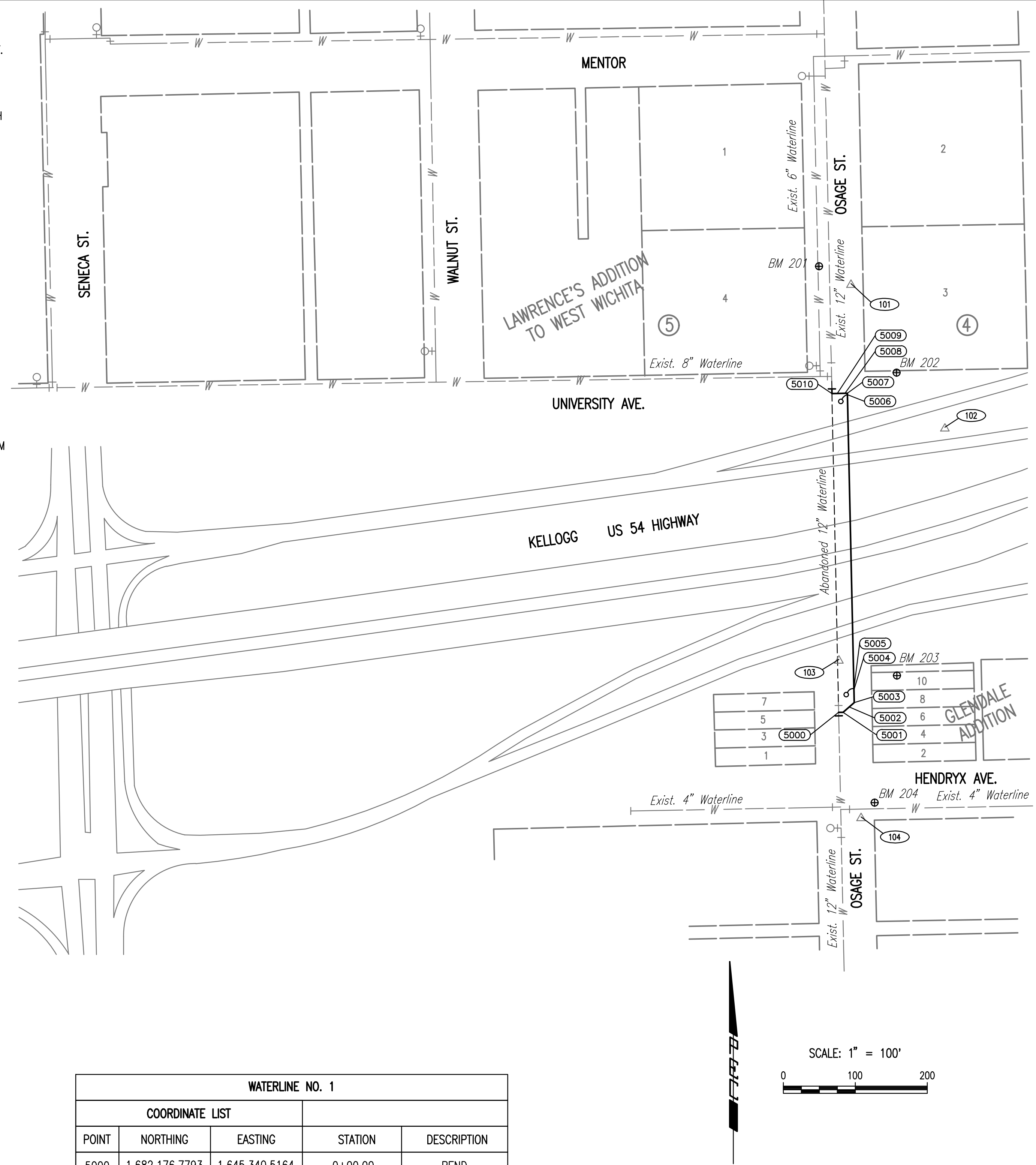
CONTROL POINT

CP-101
N- 1682772.31 E- 1645357.71
1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND, ON THE EAST SIDE OF S OSAGE ST.
1. 19.2' W TO THE CENTERLINE OF OSAGE ST.
2. 16.7' S TO THE CENTERLINE OF THE DRIVE FOR 524 S OSAGE ST.
3. 10.4' E TO THE WEST EDGE OF SIDEWALK.

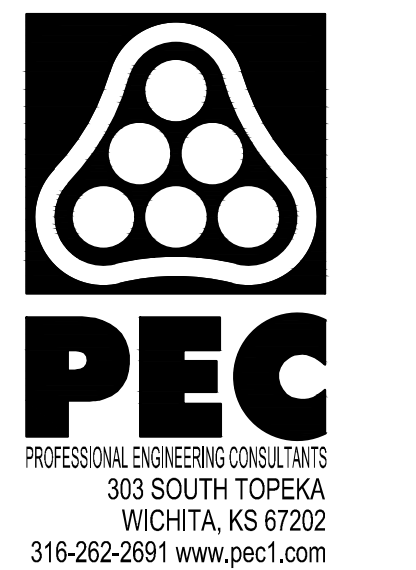
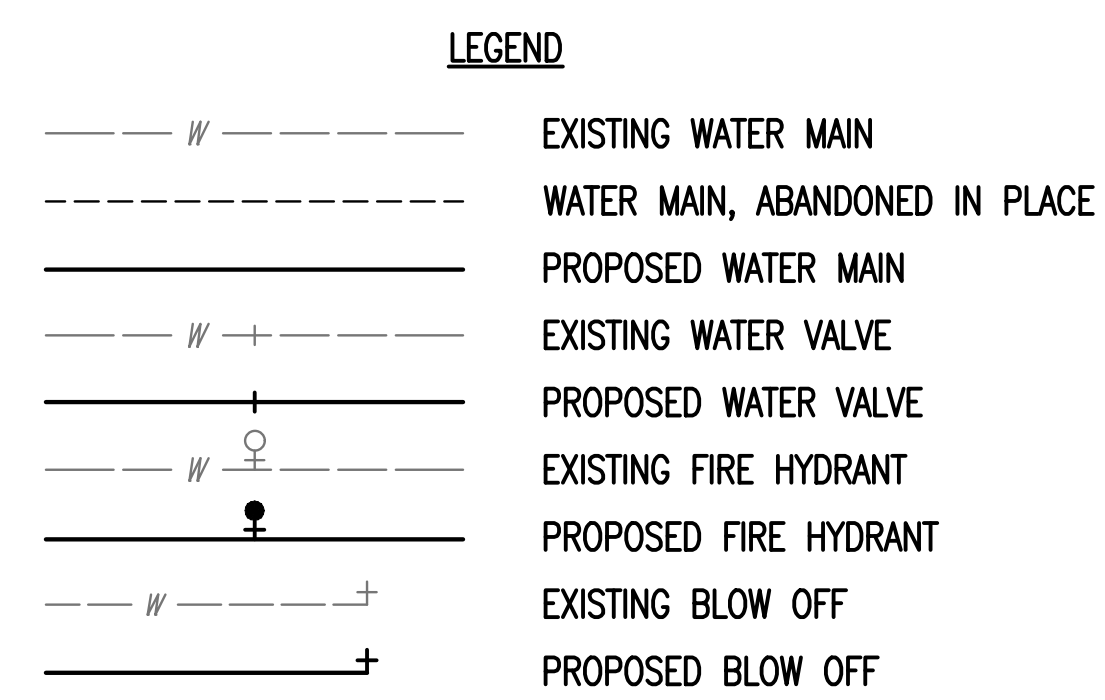
CP-102
N- 1682572.72 E- 1645488.27
1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND IN THE GRASS MEDIAN BETWEEN THE FRONTAGE ROAD AND THE WEST-BOUND KELLOGG EXIT RAMP TO SENECA ST.
1. 7.7' S TO THE NORTH BACK OF CURB ALONG THE EXIT RAMP.
2. 21.9' N TO THE SOUTH FACE OF CURB ALONG THE FRONTAGE ROAD.
3. 29.4' E TO THE SOUTH FACE OF THE UNDIVIDED ROAD AHEAD SIGN POST.

CP-103
N- 1682250.28 E- 1645340.82
1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND ON THE SOUTH SIDE OF THE FRONTAGE ROAD ON THE SOUTH SIDE OF EAST-BOUND KELLOGG.
1. 5' E TO THE CENTERLINE OF OSAGE ST. EXTENDED.
2. 18.6' N TO THE SOUTH BACK OF CURB OF THE FRONTAGE ROAD.
3. 40.8' S TO THE SOUTH RIGHT-OF-WAY FENCE.

CP-104
N- 1682031.52 E- 1645371.69
1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND NEAR THE SOUTH CURB RETURN ON THE SOUTHEAST CORNER OF THE INTERSECTION OF E HENDRYX ST AND S OSAGE ST.
1. 35.2' N TO THE CENTERLINE OF HENDRYX ST.
2. 21.4' W TO THE CENTERLINE OF OSAGE ST.
3. 3' EAST TO THE BASE OF THE "SYCAMORE BIKE ROUTE" SIGN POST.



WATERLINE NO. 1				
COORDINATE LIST				
POINT	NORTHING	EASTING	STATION	DESCRIPTION
5000	1,682,176.7793	1,645,340.5164	0+00.00	BEND
5001	1,682,176.9001	1,645,346.7396	0+06.22	BEND
5002	1,682,184.2820	1,645,355.1945	0+17.40	VERT. BEND
5003	1,682,190.3196	1,645,362.1097	0+26.63	BEND
5004	1,682,207.5871	1,645,361.7310	0+43.90	VERT. BEND
5005	1,682,209.5866	1,645,361.6872	0+45.90	AIR RELEASE
5006	1,682,617.9900	1,645,352.7306	4+54.40	AIR RELEASE
5007	1,682,619.9895	1,645,352.6867	4+56.40	BEND
5008	1,682,619.9136	1,645,349.0875	4+60.00	VERT. BEND
5009	1,682,619.6945	1,645,338.6871	4+70.40	VERT. BEND
5010	1,682,619.5366	1,645,331.1887	4+77.90	BEND



**WATERLINE RELOCATION
AT
KELLOGG AND OSAGE STREET**

GARY JANZEN, P.E. - CITY ENGINEER
CITY OF WICHITA PROJECT NO. 448-2019-010176

Issue:	
JOB NO.	35-187042-007-0042
DATE	AUGUST 2019
PM	RWG
DESIGNED BY	RWG
DRAWN BY	CSL
CHECKED BY	TBK

KEY MAP AND GENERAL NOTES

C102

Scale: 1/2" = 100' - 2019.11.05.05 AM by MURIS DECAT
Plot Scale: 1:1 12/19/2019 06:46:55
U:\Wichita-Civil\2019\187042\008\Drawings\187042-008-C102