GENERAL NOTES

1. 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.

2. ALL VEGETATION/TREES IN PROPOSED CHANNEL, BETWEEN TOP OF CUT ON ONE SIDE AND TOP OF CUT ON THE OTHER SIDE, SHALL BE REMOVED.

3. ALL CONCRETE SHALL BE STANDARD CITY OF WICHITA PAVING MIX, UNLESS OTHERWISE NOTED ON THESE PLANS OR IN THE SPECIFICATIONS.

4. UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATIONS, 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 WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

5. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES BEFORE STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL	1-800-344-7233 OR 687-2470 (LOCAL WICHITA)
COX COMMUNICATION	262-4270
KANSAS GAS SERVICE	832-3169 OR 832-3168
KGE (ELECTRIC)	383-8600
SOUTHWESTERN BELL TELEPHONE COMPANY	1-800-734-7590, WAIT FOR AUTOMATED ANSWER, PRESS ## TO TALK WITH SOMEONE
CITY OF WICHITA WATER & SEWER	268-4908/ 4940
CITY OF WICHITA STORM WATER UTILITY	268-4498/ 4072

6. CONSTRUCTION LIMITS INCLUDE KDOT RIGHT OF WAY ADJACENT TO THE CHANNEL MODIFICATIONS SHOWN HEREIN. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED 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 WOULD REQUIRE A KANSAS DEPARTMENT OF AGRICULTURE, DIVISION OF WATER RESOURCES PERMIT. ANY MATERIAL DISCHARGED TO WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. ARMY, CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

7. ALL ELEVATIONS SHOWN ON THESE PLANS ARE ON CITY OF WICHITA DATUM.

   WICHITA DATUM = N.G.V.D. - 1187.40

8. ALL ADJACENT BUILDINGS, STRUCTURES, PARKING LOTS, DRIVES, STREET PAVEMENT, CURBS, AND APPURTENANCES OTHER THAN SHOWN ON THESE PLANS FOR REPLACEMENT SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED ITEMS SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY.

9. CONSTRUCTION AND PERSONAL VEHICLES SHALL ENTER THE CONSTRUCTION SITE ONLY AT ESTABLISHED TEMPORARY CONSTRUCTION ENTRANCES CONSISTENT WITH SWPPP REQUIREMENTS. SEE SHEET 20. MUD OR DIRT TRACKED ONTO CITY STREETS FROM THE CONSTRUCTION AREA SHALL BE REMOVED IMMEDIATELY.

10. WHERE STORM SEWER PIPE IS BEING INSTALLED, BUTYL RUBBER SEALANT SHALL BE USED AT ALL RCP JOINTS. RCB JOINTS MAY USE FOAM GASKETS, OMNIFLEX GASKET, OR AN APPROVED EQUAL CLOSED CELL GASKET. RCB JOINTS SHALL BE WRAPPED WITH FILTER FABRIC, AS SPECIFIED BY THE MANUFACTURER.

11. THE CONTRACTOR SHALL WORK IN A SYSTEMATIC AND EXPEDIENT MANNER TO PREVENT WASHING AND EROSION DURING THE CONSTRUCTION PROCESS. AS EACH SEGMENT BETWEEN CROSS STREETS IS BROUGHT TO FINAL GRADE, THE CONTRACTOR SHALL SEED AND INSTALL THE REQUIRED EROSION PROTECTION MAT. IT SHALL BE NOTED THAT THERE IS CONTINUOUS FLOW IN THE WICHITA DRAINAGE CANAL. THE CONTRACTOR SHALL DIVERT BASE FLOW AND, AS NEEDED, STABILIZE THE CHANNEL BOTTOM UNDER THE GABIONS AND MATTRESSES ACCORDING TO CITY OF WICHITA PIPE INSTALLATION SPECIFICATIONS. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE UNIT BID PER FOOT OF CHANNEL. SEE SHEET 20.

12. THE CONTRACTOR SHALL SCHEDULE THE WORK SO THAT ALL DISTURBED AREAS CAN BE PLANTED AS SOON AS POSSIBLE. THE GRASS MIX SHALL BE 4#/1000FT² WESTERN WHEATGRASS, 4#/1000FT² SMOOTH BROME, 4#/1000FT² KENTUCKY 31 FESCUE, 4#/1000FT² BUFFALO GRASS(*), AND 4#/1000FT² BERMUDA GRASS.

    (*) IF BUFFALO GRASS IS PLANTED OUTSIDE NORMAL PLANTING DATES (MARCH THROUGH JULY), UNTREATED SEED SHALL BE USED.

    TURF AREAS SHALL BE MAINTAINED BY MOWING (HERBICIDES SHALL NOT BE USED) WHEN GROWTH REACHES A HEIGHT OF 6 INCHES, GRASS SHALL BE MOWED TO A HEIGHT OF NOT LESS THAN 3 INCHES TO AVOID "SCALPING". MAINTENANCE SHALL EXTEND THROUGH THE END OF THE GROWING SEASON OR UNTIL OUR ACCEPTABLE STAND OF TURF IS ESTABLISHED. AN ACCEPTABLE STAND OF TURF IS DEFINED AS FOLLOWS

    - MINIMUM OF 50 GRASS PLANTS PER SQUARE FOOT
    - BARE SPOTS ARE NO LARGER THEN 1 FT SQUARE
    - TOTAL BARE SPOTS DO NOT EXCEED 2% OF THE TOTAL SEEDED AREA
    - SEEDED AREAS SHALL BE INSPECTED DURING THE FOLLOWING GROWING SEASON PRIOR TO FINAL ACCEPTANCE TO CHECK FOR WINTER KILL OR OTHER DEFICIENCIES

13. THIS PROJECT WILL REQUIRE A NPDES PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AND COMPLIANCE WITH ALL COW, KDHE AND EPA REQUIREMENTS. SEE SHEET 20 FOR FURTHER REQUIREMENTS.

14. PIERS OF 10TH STREET NORTH, 11TH STREET NORTH AND 15TH STREET NORTH BRIDGES MAY BE UNDERCUT WHILE THE GABION PILOT CHANNEL IS BEING CONSTRUCTED. ANY UNDERCUT PILE CAPS OR EXPOSED PILES SHALL BE CONCRETE GROUTED AS SOON AS GABION PILOT CHANNEL HAS BEEN COMPLETED UNDER EACH BRIDGE. USE METAL FORM BETWEEN GABIONS AND GROUT SO THAT GROUT IS NOT PLACED ON TOP OF GABIONS. SEE DETAIL SHEET 26.

15. CONTRACTOR TO LOAD EXCESS RIPRAP FROM TEMPORARY INSTALLATION AT SOUTH END OF PROJECT ONTO CITY TRUCKS FOR SALVAGE.

G:\CIVIL\AREA_K\94011\2TITLE\94111t12.dwg 06/25/2001 09:36:07 AM CST

G:\CIVIL\AREA_K\94011\2TITLE\94111t12.dwg Mon Jun 25 09:36:35 2001

CHANNEL PLANS FOR

WICHITA DRAINAGE CANAL

PHASE 2 - 10TH STREET NORTH TO 17TH STREET NORTH

THE CITY OF WICHITA

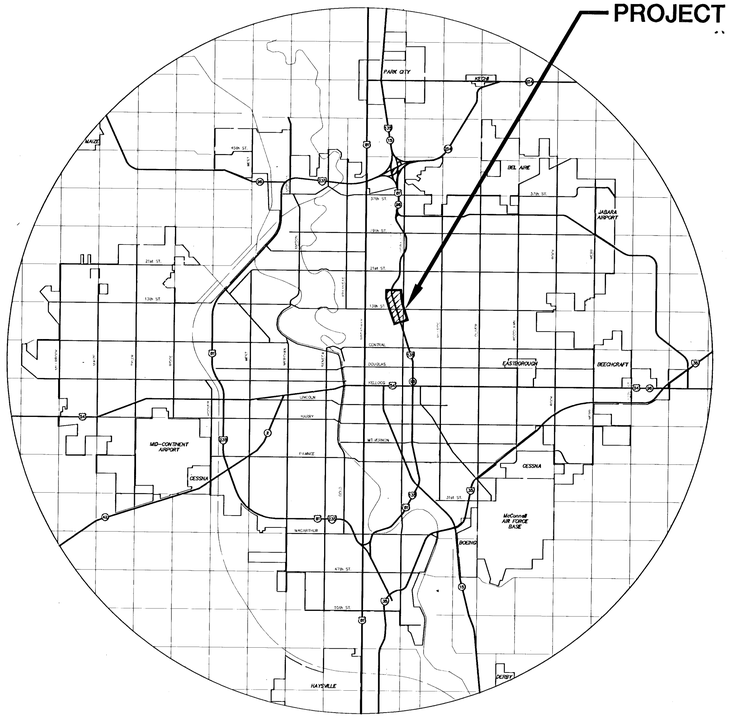
SEDGWICK COUNTY, KANSAS

PROJECT NO. 468-82950

CHRISTOPHER M. CARRIER P.E., CITY STORM WATER ENGINEER

~~INDEX CODE 660779~~

OCA NO. 660785



LOCATION MAP

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL CHANNEL SECTIONS
3	PLAN – STA. 70+00 TO STA. 71+50
4	PROFILE – STA. 70+00 TO STA. 72+00
5	PLAN – STA. 71+50 TO STA. 77+50
6	PROFILE – STA. 72+00 TO STA. 84+00
7	PLAN – STA. 77+50 TO STA. 83+50
8	PLAN – STA. 83+50 TO STA. 89+50
9	PROFILE – STA. 84+00 TO STA. 96+00
10	PLAN – STA. 89+50 TO STA. 95+50
11	PLAN – STA. 95+50 TO STA. 101+50
12	PROFILE – STA. 96+00 TO STA. 108+00
13	PLAN – STA. 101+50 TO STA. 107+50
14	PLAN – STA. 107+50 TO STA. 113+50
15	PROFILE – STA. 108+00 TO STA. 116+54.58
16	PLAN – STA. 113+50 TO STA. 116+54.58
17	TYPE "P" MANHOLE DETAILS
18	DROP MANHOLE DETAILS
19	EROSION CONTROL MAT DETAILS
20	SWPPP REQUIREMENTS
21	OVERHEAD DRAIN & FENCE DETAILS
22	BRIDGE SLOPE PROTECTION FINISHED ELEVATIONS
23	BRIDGE SLOPE PAVING AND HEADWALL / WINGWALL REINFORCING DETAILS
24–25	HEADWALL DETAILS AND SECTIONS
26	BRIDGE PIER PROTECTION
27–36	HORIZONTAL LAYOUTS
37–47	CROSS SECTIONS

BENCHMARKS

BM #13 "+" CUT ON THE END OF THE SOUTHEAST WINGWALL OF THE 10TH STREET NORTH BRIDGE. C.O.W. ELEV. = 117.57

BM #14 "+" CUT ON THE END OF THE NORTHEAST WINGWALL OF THE 11TH STREET NORTH BRIDGE. C.O.W. ELEV. = 118.38

BM #15 "□" CUT ON THE SOUTHEAST CORNER OF INLET UNDER THE SOUTHBOUND LANES OF I-135, APPROX. 35 FT. SOUTH OF EXTENDED CENTERLINE OF 12TH STREET NORTH. C.O.W. = 116.15

BM #16 C.O.W. DISK ON THE SOUTHWEST CORNER OF THE BRIDGE MEDIAN ON THE 13TH STREET NORTH BRIDGE. C.O.W. = 121.03

BM #17 "□" CUT ON THE NORTHEAST CORNER OF INLET UNDER THE SOUTHBOUND LANES OF I-135, APPROX. 70 FT. NORTH OF EXTENDED CENTERLINE OF 14TH STREET NORTH. C.O.W. = 117.66

BM #18 "+" CUT ON THE END OF THE NORTHEAST WINGWALL OF THE 15TH STREET NORTH BRIDGE. C.O.W. ELEV. = 120.94

BM #19 "□" CUT ON THE NORTHEAST CORNER OF INLET UNDER THE SOUTHBOUND LANES OF I-135, APPROX. 35 FT. NORTH OF EXTENDED CENTERLINE OF 16TH STREET NORTH. C.O.W. = 117.65

BM #20 C.O.W. DISK ON HUBGUARD AT THE SOUTHEAST CORNER OF THE 17TH STREET NORTH BRIDGE. C.O.W. ELEV. = 124.44

TIMOTHY M. CARRIER LICENSED 11402 6-25-01 KANSAS PROFESSIONAL ENGINEER

MKEC ENGINEERING CONSULTANTS

411 N. WEBB ROAD

WICHITA, KS. 67206

316-684-9600

AREA "K" PART 2 - PHASE 2 WICHITA DRAINAGE CANAL
PROJECT NAME

TITLE SHEET
SHEET TITLE

DESIGN BY:	DRAWN BY:	CHECKED BY:
JNJ	RSB	TKM
DATE	JOB NO.	SHEET/OF
JAN. 2001	94011	1 / 47