N-1,684,277.6009, E-1,650,632.6230
Sta. 9+34.2
Install New 20" Pipe. Seal new 20" Pipe to MH with an approved waterstop gasket and non-shrink grout. Construct a minimum of 3' Reinforced Concrete Encasement from MH wall. Reshape MH floor to provide smooth flow. This work shall be considered subsidiary to the price bid for pipe in place. Plug existing 8" pipes North West and North East.
Adjust manhole top elevation.
Existing Top of Manhole Elev.= 1295.8
Proposed Top of Manhole Elev.= 1296.0
Difference = -0.2'

CAUTION !!!
Prop. 16" Waterline

CAUTION !!!
Existing 16" Waterline

CAUTION !!!
Prop. 48" Waterline

N-1,684,343.4065, E-1,650,631.4370
Sta. 10+00.0 *
Construct MH 1 over existing 20" pipe. Remove top half of 20" pipe thru MH. Standard MH Shape invert to provide smooth flow.

CAUTION !!!
8" Waterline (City of Wichita)

WATERLINE NO. 1
See sheet no. W12

N-1,684,341.0873, E-1,650,517.9269
Sta. 11+13.5
Remove existing Brick MH and reconnect existing 4" Service Line (N) to proposed 8" Pipe.

CAUTION !!!
Proposed 12" RCP Storm Water Sewer

CAUTION !!!
12" RCP Storm Water Sewer

CAUTION !!!
6" Waterline (City of Wichita)

CAUTION !!!
12" RCP Storm Water Sewer

CAUTION!!!
Traffic Signal (City of Wichita) Contractor shall support in place and protect from damage.

N-1,684,336.0079, E-1,650,261.1846
Sta. 13+70.3
Const. MH 2
Standard MH

N-1,684,346.9898, E-1,650,248.0900
Sta. 13+87.4
Core existing concrete MH wall and Install New 8" Pipe. Seal new 8" Pipe to MH with an approved waterstop gasket and non-shrink grout. Construct a minimum of 3' Reinforced Concrete Encasement from MH wall. Reshape MH floor to provide smooth flow. Plug existing 8" pipe South. This work shall be considered subsidiary to the price bid for pipe in place.

Still Happens

Still happens

Sta. 9+43.00 to Sta. 9+88.00
Construct 45 L.F. Reinforced Concrete Encasement.

CAUTION !!!
Proposed 6'x3' RCP Storm Water Sewer

Deleted per Stan B.

Deleted per Stan B.

Install 65.8 L.F. 20" Pipe

CAUTION !!!
Proposed Elec. Duct Bank

Remove Concrete Pavement as required do not replace. Install Temporary Asphalt. Cost subsidiary to "Site Clearing and Restoration".

Install 370.3 L.F. 8" PVC Pipe

Remove Concrete Sidewalk as required do not replace. Cost subsidiary to "Site Clearing and Restoration".

Remove Brick Pavement as required do not replace. Install Temporary Asphalt. Cost subsidiary to "Site Clearing and Restoration".

Remove Concrete Sidewalk as required do not replace. Cost subsidiary to "Site Clearing and Restoration".

Install 17.1 L.F. 8" PVC Pipe

Remove Gravel Drive as required do not replace.

SCALE:
PLAN: LAT. & LONG. 0 20 40
PROFILE: HORIZ. SAME AS ABOVE
VERT. 0 5

* PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE EXISTING 20" PIPE AT SANITARY SEWER STATION 10+00.0 TO VERIFY ITS HORIZONTAL AND VERTICAL LOCATION. THE PIPE LOCATION SHALL BE REPORTED TO THE ENGINEER SO THAT ANY NECESSARY PLAN MODIFICATIONS CAN BE MADE. ANY ADDITIONAL LABOR OR MATERIALS NECESSARY TO COMPLETE THE CONNECTION SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.

NOTE: 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 ENGINEER. COST OF MAINTAINING FLOW OF SEWAGE THROUGH CONSTRUCTION WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED SUBSIDIARY TO OTHER RELATED ITEMS OF WORK.

X = Denotes Pipe to be removed. (See Paving and Storm Sewer Plans also.)

SANITARY SEWER LINE NO. 1
(8" SEWER TO BE ABANDONED WITH DOWNTOWN ARENA PROJECT)

Note: This project deleted per e-mail - Stan B. 7/2/2007

Existing MH Top Elev.= 1295.8
Prop. Top Elev.= 1296.0
(Exist. 20") ℄ Out= 1288.75*
℄ In= 1288.77
65.8 L.F. 20" Pipe @ 0.09%

Prop. 16" Waterline Top of Pipe= 1292.73
Exist. 8" Waterline (to be removed) Top of Pipe= 1292.23
Prop. 48" Waterline Top of Pipe= 1287.53
Prop. 6'x3' RCP SWS ℄= 1284.07
Prop. Elec. Duct Bank Bottom of Bank Elev.= 1284.28
MH 1 Top Elev.= 1296.4
℄ Out= 1288.83
Exist. 8" Waterline (to be removed) Top of Pipe= 1293.52
℄ In= 1288.93

Existing MH (to be removed) Top Elev.= 1296.43
℄ = 1289.23
℄ = 1289.53
℄ = 1289.83

Prop. 12" RCP SWS ℄= 1290.65
12" RCP SWS ℄= 1288.23
Exist. 6" Waterline (to be removed) Top of Pipe= 1291.69
12" RCP SWS (to be removed) ℄= 1293.50
370.3 L.F. 8" PVC Pipe @ 0.30%

MH 2 Top Elev.= 1294.8
℄ Out= 1290.04
℄ In= 1290.14
Existing MH Top Elev.= 1294.61
℄ Out= 1290.22
17.09 L.F. 8" PVC Pipe @ 0.47%

Proposed Ground
Existing Ground
℄ In = 1289.18 from Exist. 8" SS. Pipe (NW)
℄ In = 1288.95 from Exist. 8" SS. Pipe (NE)
Steel Casing
℄ In = 1292.60 from Exist. 4" SS. Pipe (N)
℄ Out = 1290.11 from Exist. 8" SS. Pipe (S)
Service Saddle
℄ Out = 1290.41 from Exist. 8" SS. Pipe (S)
℄ In = 1290.32 from Exist. 8" SS. Pipe (N)

1310 1305 1300 1295 1290 1285 1280 1275 1270
9+00 10+00 11+00 12+00 13+00

WATERMAN SANITARY SEWERS IMPROVEMENTS, EMPORIA TO COMMERCE

SANITARY SEWER LINE NO. 1

JAMES L. ARMOUR, P.E. — CITY ENGINEER
CITY OF WICHITA PROJECT NO. 468-84333

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316.262.2691 • FAX 316.262.3003

Designed By	MDK	Job No.	35-05787-001-042
Drawn By	CSL	Date	March 2006

Sheet W28 of 31

PLAN: DATE | BY | CHECKED | CHECKED
PROFILE: CHECKED | CHECKED

Saved 02-27-2007 10:23:36 AM by CSL
Plotted 02-27-2007 10:25:58 AM by REJ
J:\SENTOUT\2006\06237\2007-02-28 Final to CDW\DWG\W28-SSLine01