7 Connect SWS to Proposed RCB/RCP as Shown in Profile

Existing Structure to be Removed by Others

HORIZ. (IN FEET) 1 INCH = 20 FT.

VERT. (IN FEET) 1 INCH = 5 FT.

GRAPHIC SCALE

Sta. 0+00.00 SWS Line 04 =
Sta. 0+91.25 SWS Line 76 =
CL 13th Sta. 69+39.27, 22.50' Lt.
Const. Reinforced Concrete MH
L=8', W=4', H=8.75',
Install 53.4 L.F. 30" RCP (E),
Install 213.4 L.F. 48" RCP (N),
See Sheet No. 98 & 147,
N 94096.78, E 61587.19

CL 13th Sta. 69+40.21, 58.05 Lt.
Remove 80 L.F. Inlet Structure (N),
102 L.F. 5'x4'/5'x5' RCB (S),
& 5' Headwall (S)
N 94132.35, E 61587.42

Sta. 0+53.40 SWS Line 04 =
CL 13th Sta. 69+91.82, 31.98' Lt.
Const. Type I Curb Inlet
L=15', W=4', H=6.47'
Install 392.6 L.F. 24" RCP (E)
See Sheet No. 91 & 147,
N 94107.32, E 61639.54

CAUTION!!! Exist. San. Sewer Utils.

CAUTION!!! Exist. Gas, Telephone, & Water Utils.

CAUTION!!! Exist. Gas & Water Utils.

Sta. 1+34.46 SWS Line 54 =
CL 13th Sta. 68+80.82, 31.48' Lt.
Const. Type I Curb Inlet
L=15', W=3', H=4.75'
See Sheet No. 91 & 147,
N 94104.59, E 61528.57

MATCH POINT

CAUTION!!! Exist. Gas, Telephone, & Water Utils.

CAUTION!!! Exist. Sewer & Prop. Water Utils.

Sta. 0+00.00 SWS Line 02 =
CL 13th Sta. 68+97.21, 10.77' Rt.
Remove Exist. MH & 17 L.F. 18" RCP/Inlet (S)
Const. Reinforced Concrete MH
L=7', W=4', H=9.91'
Over Exist. 60" RCP (Match FL N&S)
Install 166.5 L.F. 36" RCP (W),
Install 45.3 L.F. 24" RCP (N),
See Sheet No. 98 & 147,
N 94062.68, E 61545.80

Sta. 0+24.00 SWS Line 54 =
CL 13th Sta. 69+06.54, 75.24' Rt.
Const. 60" RCP End Section
Connect to Exist. 60" RCP
See Sheet No. 133 & 147,
N 93998.40, E 61556.44

Sta. 0+27.57 SWS Line 53 =
CL 13th Sta. 68+73.28, 34.83' Rt.
Const. Type I Curb Inlet w/
Flumed Hookup (L=2.33'),
L=10', W=3', H=4.25'
Install 27.6 L.F. 18" RCP (E)
See Sheet No. 91 & 147,
N 94038.13, E 61522.37

CL 13th Sta. 69+09.98, 98.99 Rt.
Remove 60" RCP End Section
& 32 L.F. 60" RCP (N)
N 93974.73, E 61560.35

Sta. 0+09.47 SWS Line 76 =
CL 13th Sta. 69+32.06, 57.88' Rt.
Const. 4' Hdwl w/Flared Wings
Install 29.7 L.F. 6'x4' RCB (N),
See Sheet No. 137 & 147,
N 94016.27, E 61581.60

Sta. 0+29.65 SWS Line 76 =
Sta. 0+00.00 SWS Line 55 =
CL 13th Sta. 69+39.47, 39.11' Rt.
Const. Type I Curb Inlet w/
Flumed Hookup (L=5.61'), Encase
Exist. San. Sewer with Flume,
L=15', W=5', H=9.01'
Install 61.6 L.F. 6'x4' RCB (N)
Install 60.1 L.F. 18" RCP (E)
See Sheet No. 91 & 147,
N 94035.19, E 61588.63

Sta. 0+60.07 SWS Line 55 =
CL 13th Sta. 69+99.54, 38.35' Rt.
Const. Type I Curb Inlet w/
Flumed Hookup (L=4.85'),
L=10', W=5', H=4.25'
See Sheet No. ,
N 94037.16, E 61648.67

YALE AVENUE

13TH STREET

Section Line

CL 13th Street

MATCH POINT

Existing R/W

Exist. 60" RCP

36" RCP

24" RCP

18" RCP

SS manhole top el 1360.27 invert NE 1356.7 invert S 1355.2 invert N 1355.2

SD manhole top el 1358.45 invert N&S 1349.0 invert 18" 1356.6

SS manhole top el 1358.38 invert EW 1355.8

SS manhole top el 1362.15 invert EN 1356.8 invert W 1356.5

SS manhole top el 1359.22 invert EN 1355.1 invert W 1355.6

Pipe end invert 1348.05

UGT DUCT

GAS

SS

Top MH Elev.=1358.16

Top MH Elev.=1357.62

Top Inlet Elev.=1357.97

Existing Ground

Proposed Grade

Sta. 68+97.21, 10.77' Rt. Reinforced Concrete MH L=7', W=4', H=9.91'

Sta. 69+39.27, 22.50' Lt. Reinforced Concrete MH L=8', W=4', H=8.75'

Sta. 69+91.82, 31.98' Lt. Type I Curb Inlet, H=6.47'

68+00.00 MATCH POINT

Prop. Water Crossing

Exist. Water Crossing

Exist. Gas Crossing

Exist. S.S. Crossing

69.3 L.F. 36" RCP @ 0.50% Grade

FL E: 1351.83 FL SW: 1352.03

97.2 L.F. 36" RCP @ 0.50% Grade

53.4 L.F. 30" RCP @ 2.12% Grade

258.2 L.F. 24" RCP @ 2.82% Grade

FL: 1356.31 EG: 1361.8

FL: 1351.74 EG: 1360.2

FL: 1351.49 EG: 1359.5

FL: 1351.24 EG: 1359.0

FL S: 1349.00 FL W: 1351.00 FL N: 1352.00

FL S: 1349.62 FL E: 1351.7 FL N: 1349.62

FL: 1351.35 EG: 1358.4

FL W: 1352.25 FL E: 1352.75

FL: 1352.98 EG: 1358.7

FL: 1354.39 EG: 1359.3

FL: 1355.80 EG: 1360.0

FL: 1357.21 EG: 1361.1

FL: 1358.62 EG: 1362.7

1375 1370 1365 1360 1355 1350 1345 1340 1335 1330

67+00 68+00 69+00 70+00 71+00 72+00

No.	Date	By	Approved	Revision

13TH STREET NORTH FROM HYDRAULIC TO OLIVER
STREET & DRAINAGE IMPROVEMENTS
STORM SEWER PLAN & PROFILE
CITY OF WICHITA, KANSAS
JAMES L. ARMOUR, P.E., L.S. - CITY ENGINEER
C.O.W. Proj.# 472-84320 O.C.A.# 706933

POE & ASSOCIATES, INC.
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5940 E. Central, Suite 200 ■ Wichita, KS 67208-4242
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FINAL

Designed By: J. DICKMAN
Drawn By: M. TUCKER
Poe Job No.: 1871A
Date: March 2012