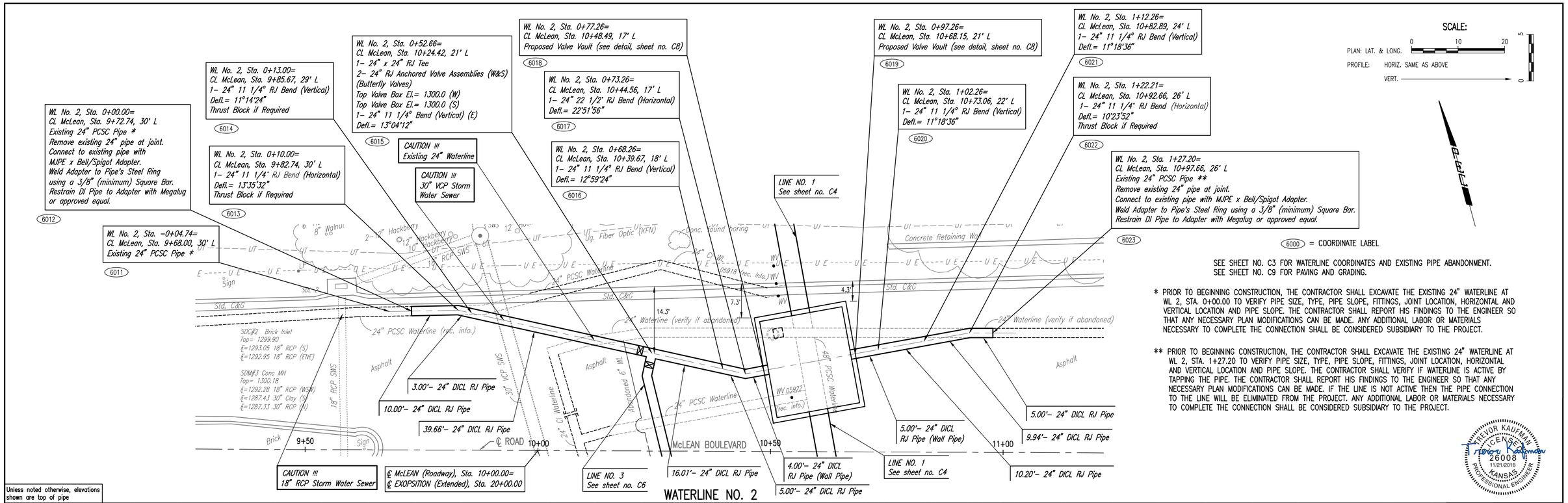
WL No. 2, Sta. 0+00.00=
CL McLean, Sta. 9+72.74, 30' L
Existing 24" PCSC Pipe *
Remove existing 24" pipe at joint.
Connect to existing pipe with
MJPE x Bell/Spigot Adapter.
Weld Adapter to Pipe's Steel Ring
using a 3/8" (minimum) Square Bar.
Restrain DI Pipe to Adapter with Megalug
or approved equal.
6012
WL No. 2, Sta. -0+04.74=
CL McLean, Sta. 9+68.00, 30' L
Existing 24" PCSC Pipe *
6011
WL No. 2, Sta. 0+13.00=
CL McLean, Sta. 9+85.67, 29' L
1- 24" 11 1/4° RJ Bend (Vertical)
Defl.= 11°14'24"
Thrust Block if Required
6014
WL No. 2, Sta. 0+10.00=
CL McLean, Sta. 9+82.74, 30' L
1- 24" 11 1/4° RJ Bend (Horizontal)
Defl.= 13°35'32"
Thrust Block if Required
6013
WL No. 2, Sta. 0+52.66=
CL McLean, Sta. 10+24.42, 21' L
1- 24" x 24" RJ Tee
2- 24" RJ Anchored Valve Assemblies (W&S)
(Butterfly Valves)
Top Valve Box El.= 1300.0 (W)
Top Valve Box El.= 1300.0 (S)
1- 24" 11 1/4° Bend (Vertical) (E)
Defl.= 13°04'12"
6015
CAUTION !!!
Existing 24" Waterline
CAUTION !!!
30" VCP Storm
Water Sewer
WL No. 2, Sta. 0+77.26=
CL McLean, Sta. 10+48.49, 17' L
Proposed Valve Vault (see detail, sheet no. C8)
6018
WL No. 2, Sta. 0+73.26=
CL McLean, Sta. 10+44.56, 17' L
1- 24" 22 1/2° RJ Bend (Horizontal)
Defl.= 22°51'56"
6017
WL No. 2, Sta. 0+68.26=
CL McLean, Sta. 10+39.67, 18' L
1- 24" 11 1/4° RJ Bend (Vertical)
Defl.= 12°59'24"
6016
LINE NO. 1
See sheet no. C4
WL No. 2, Sta. 0+97.26=
CL McLean, Sta. 10+68.15, 21' L
Proposed Valve Vault (see detail, sheet no. C8)
6019
WL No. 2, Sta. 1+02.26=
CL McLean, Sta. 10+73.06, 22' L
1- 24" 11 1/4° RJ Bend (Vertical)
Defl.= 11°18'36"
6020
WL No. 2, Sta. 1+12.26=
CL McLean, Sta. 10+82.89, 24' L
1- 24" 11 1/4° RJ Bend (Vertical)
Defl.= 11°18'36"
6021
WL No. 2, Sta. 1+22.21=
CL McLean, Sta. 10+92.66, 26' L
1- 24" 11 1/4° RJ Bend (Horizontal)
Defl.= 10°23'52"
Thrust Block if Required
6022
WL No. 2, Sta. 1+27.20=
CL McLean, Sta. 10+97.66, 26' L
Existing 24" PCSC Pipe **
Remove existing 24" pipe at joint.
Connect to existing pipe with MJPE x Bell/Spigot Adapter.
Weld Adapter to Pipe's Steel Ring using a 3/8" (minimum) Square Bar.
Restrain DI Pipe to Adapter with Megalug or approved equal.
6023
SCALE:
PLAN: LAT. & LONG.
0 10 20
PROFILE: HORIZ. SAME AS ABOVE
VERT.
5 0
6000 = COORDINATE LABEL
SEE SHEET NO. C3 FOR WATERLINE COORDINATES AND EXISTING PIPE ABANDONMENT.
SEE SHEET NO. C9 FOR PAVING AND GRADING.
* PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE EXISTING 24" WATERLINE AT WL 2, STA. 0+00.00 TO VERIFY PIPE SIZE, TYPE, PIPE SLOPE, FITTINGS, JOINT LOCATION, HORIZONTAL AND VERTICAL LOCATION AND PIPE SLOPE. THE CONTRACTOR SHALL REPORT HIS FINDINGS 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.
** PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE EXISTING 24" WATERLINE AT WL 2, STA. 1+27.20 TO VERIFY PIPE SIZE, TYPE, PIPE SLOPE, FITTINGS, JOINT LOCATION, HORIZONTAL AND VERTICAL LOCATION AND PIPE SLOPE. THE CONTRACTOR SHALL VERIFY IF WATERLINE IS ACTIVE BY TAPPING THE PIPE. THE CONTRACTOR SHALL REPORT HIS FINDINGS TO THE ENGINEER SO THAT ANY NECESSARY PLAN MODIFICATIONS CAN BE MADE. IF THE LINE IS NOT ACTIVE THEN THE PIPE CONNECTION TO THE LINE WILL BE ELIMINATED FROM THE PROJECT. ANY ADDITIONAL LABOR OR MATERIALS NECESSARY TO COMPLETE THE CONNECTION SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.
TREVOR KAUFMAN
LICENSED
26008
11/21/2018
KANSAS
PROFESSIONAL ENGINEER
Unless noted otherwise, elevations shown are top of pipe
8" Walnut
2-12" Hackberry
12" Hackberry
10" Hackberry
18" RCP SWS
Ug. Fiber Optic (KFN)
Conc. Sound Boring
24" CI WL
Concrete Retaining Wall
24" PCSC Waterline
WV 05918 (rec. info.)
Sign
Std. C&G
24" PCSC Waterline (rec. info.)
24" Waterline (verify if abandoned)
14.3'
7.3'
4.3'
SDC#2 Brick Inlet
Top= 1299.90
E=1293.05 18" RCP (S)
E=1292.95 18" RCP (ENE)
SDM#3 Conc MH
Top= 1300.18
E=1292.28 18" RCP (WSW)
E=1287.43 30" Clay (S)
E=1287.33 30" RCP (N)
18" RCP SWS
30" VCP SWS
Asphalt
Abandoned 6" WL
24" CI Waterline
24" PCSC Waterline
WV 05922 (rec. info.)
48" PCSC Waterline
Brick
9+50
10+00
10+50
11+00
℄ ROAD
McLEAN BOULEVARD
3.00'- 24" DICL RJ Pipe
10.00'- 24" DICL RJ Pipe
39.66'- 24" DICL RJ Pipe
16.01'- 24" DICL RJ Pipe
4.00'- 24" DICL
RJ Pipe (Wall Pipe)
5.00'- 24" DICL RJ Pipe
5.00'- 24" DICL
RJ Pipe (Wall Pipe)
LINE NO. 1
See sheet no. C4
9.94'- 24" DICL RJ Pipe
10.20'- 24" DICL RJ Pipe
5.00'- 24" DICL RJ Pipe
CAUTION !!!
18" RCP Storm Water Sewer
℄ McLEAN (Roadway), Sta. 10+00.00=
℄ EXOPSITION (Extended), Sta. 20+00.00
LINE NO. 3
See sheet no. C6
WATERLINE NO. 2
1310
1305
1300
1295
1290
1285
1280
1275
1270
18" RCP SWS
E= 1293.25±
BEGIN LINE NO. 2
Exist. 24" Waterline
11 1/4° Bend (Horizontal)
11 1/4° Bend (Vertical)
Exist. 22 1/2° Bend (Rotated) *
30" VCP SWS
E= 1287.43±
Existing 24" Waterline
(to be removed)
24" x 24" Tee
11 1/4° Bend (Vertical)
11 1/4° Bend (Vertical)
22 1/2° Bend (Horizontal)
Proposed Valve Vault
Proposed Valve Vault
11 1/4° Bend (Vertical)
11 1/4° Bend (Vertical)
11 1/4° Bend (Horizontal)
END LINE NO. 2
Exist. 24" Waterline
Existing Ground
Top of Proposed
24" Pipe
Top Existing 24" Pipe *
Top of Proposed
24" Pipe
Top Existing 24" Pipe **
+00.00
+10.00
+13.00
+52.66
+68.26
+73.26
+77.26
+97.26
+02.26
+12.26
+22.20
+22.20
Verify *
(1292.94±)
1295.00
1295.55
1295.60
1292.00
1292.00
1292.00
1292.00
1292.00
1294.00
1294.00
Verify *
0+00
1+00
WATERLINE MODIFICATIONS
VALVE VAULT AND WL RECONNECTIONS AT McLEAN AND EXPOSITION
WATERLINE NO. 2
GARY JANZEN, P.E. - CITY ENGINEER
CITY OF WICHITA PROJECT NO. 448-90913
PEC
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com
Job No. 35-160312-14-0042
Date JULY 2018
Designed By TBK
Drawn By CSL, KTD
Sheet C5 of 34
Saved 11-21-2018 8:20:14 AM by KURTIS.DEKAT
Plot Scale 1:1 11/21/2018 3:50:00 PM by KURTIS.DEKAT
U:\Wichita-Civil\2016\160312\014\Main\Drawings\160312-014-C05-WATERLINE NO 2