GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

2. CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY–TWO (72) HOURS PRIOR TO ANY EXCAVATION, AS FOLLOWS:

   KANSAS ONE–CALL 687–2470

   THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

AT&T	1–800–246–8464
BLACK HILLS ENERGY	1–800–694–8989
CITY OF WICHITA WATER	1–316–268–4555
CITY OF WICHITA SEWER	1–316–268–4073
CITY OF WICHITA STORMWATER	1–316–268–4090
CITY OF WICHITA TRAFFIC	1–316–268–4034
COX COMMUNICATIONS	1–888–249–3530
KANSAS GAS SERVICE	1–888–482–4950
WESTAR ENERGY	1–800–544–4857

3. UTILITY SERVICE LINES, POLES, ETC. ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT–OF–WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

4. 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, IN THE OPINION OF THE ENGINEER, THAT 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 WILL REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

5. 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.

6. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL 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.

8. THE WATER DISTRIBUTION DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FIELD GRADES.

9. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT ENGINEER AND TOM MASON WITH THE CITY AT 316–268–4574 WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION. STAKING AND INSPECTION FOR THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

10. IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER, BRIAN COON AT TRAFFIC@WICHITA.GOV BEFORE CONSTRUCTION CAN BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES TO FACILITATE CONSTRUCTION. ALL CONSTRUCTION ZONE MARKINGS AND SIGNAGE SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS PUBLISHED BY THE US DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL COSTS ASSOCIATED WITH CONSTRUCTION MARKINGS AND SIGNAGE SHALL BE THE CONTRACTORS RESPONSIBILITY.

11. ALL ELEVATIONS SHOWN ARE NAVD 88.

12. ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE RESTORED TO MATCH EXISTING CONDITIONS.

13. A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDED AROUND MANHOLES WHICH EXTEND MORE THAN ONE (1) FOOT ABOVE THE EXISTING GROUND. SUCH MOUNDING SHALL BE CONSTRUCTED WITH NEW DEVELOPMENT AS A SIX (6) FOOT DIAMETER FLAT TOP WITH 4 TO 1 SIDE SLOPES DOWN TO THE ORIGINAL GROUND. THE ELEVATION OF THE FLAT TOP OF THE MOUND SHALL BE 0.4 FOOT BELOW THE TOP OF THE MANHOLE.

14. GEOTECHNICAL REPORT AVAILABLE UPON REQUEST.

15. CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.

16. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.

17. CITY MAINTENANCE OF STORM SEWER ENDS AT RIGHT–OF–WAY OR EASEMENT LINE.

18. ANY SIDEWALK, DRIVE APPROACH, OR STREET PAVEMENT REMOVED TO CONSTRUCT PROJECT MUST HAVE A PAVEMENT CUT PERMIT AND BE REPLACED BY THE CITY CONTRACTOR. PERMITS CAN BE OBTAINED BY CALLING 316–268–4501 OR 316–268–4480.

19. THE INSPECTING FIRM SHALL SUBMIT TO THE CITY STORMWATER MAINTENANCE DIVISION A DIGITAL COPY OF THE CCTV INSPECTION OF THE CONDUITS AND STRUCTURES FOLLOWING CONSTRUCTION. THE DIGITAL FILE FORMATION SHALL BE COMPATIBLE WITH THE CITY INPUT TEMPLATE. A COPY OF THE TEMPLATE IS AVAILABLE UPON REQUEST AT 316–268–4090.

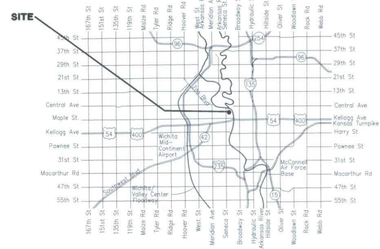
STORM SEWER IMPROVEMENTS
to serve

ADVANCED LEARNING LIBRARY

345 N. SYCAMORE ST.

CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer
Project Number
0358 PPD (607861)



SHEET INDEX

SEE SHEET NO. C4.2 FOR KEY MAP

Stormwater Certification:
Redevelopment

These construction plans were prepared in accordance with the current Stormwater Management Regulations as set forth in the City of Wichita's Stormwater Management Ordinance 16.32 and the policies/guidelines presented in the Wichita/Sedgwick County Stormwater Manual.

Disturbed Area = 6.8 AC
Water Quality Treatment: Requirments met with use of SNOUT Oil and Debris Stops. 68.7% TSS removal required, Actual TSS removal = 73.7%.
Downstream Channel Protection: N/A
Detention: N/A (10% Rule)
The BMP used for this development is SNOUT Oil and Debris Stop.

BENCHMARKS

SEE SHEET NO. C4.2

APPROVED AS NOTED
BY WICHITA PUBLIC WORKS ENGINEERING
AND STORMWATER DIVISION

Engineering _____ 8/9/2016
Stormwater _____ PE 8/9/16

NOTE TO CONTRACTORS

Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said Inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer in the state of Kansas. No work shall be performed the Contractor without such inspection nor shall any work be commenced without written authorization by City Engineering. All Construction and Materials shall comply with the current City of Wichita Specifications and Standards and Special Provisions. (on file and available at Wichita.gov).

An approved copy of these plans signed by City staff are required on–site.

AS BUILTS

Contractor: Wilks Underground
Inspector: Matt Perez/Larry Gann
Date: 04/12/2018

KEMILLER ENGINEERING PA
117 E. Lewis,
Wichita, KS 67202 (316)264-0242

AUGUST 2016

No.	Revision	By	Date

WICHITA PUBLIC LIBRARY NEW CENTRAL BRANCH BUILDING
STORM SEWER IMPROVEMENTS
PPD TITLE SHEET

GARY JANZEN, P.E. – CITY ENGINEER
PRIVATE PROJECT NO. 0358 PPD (607861)

PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

Designed by TBK	Job No. 35–13493–001–6780
Drawn by CAE, IDK	Date AUGUST 2016

Sht. C4.1 of

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CHARLES S. BROWN 21581 STATE OF KANSAS PROFESSIONAL ENGINEER
08/04/2016

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

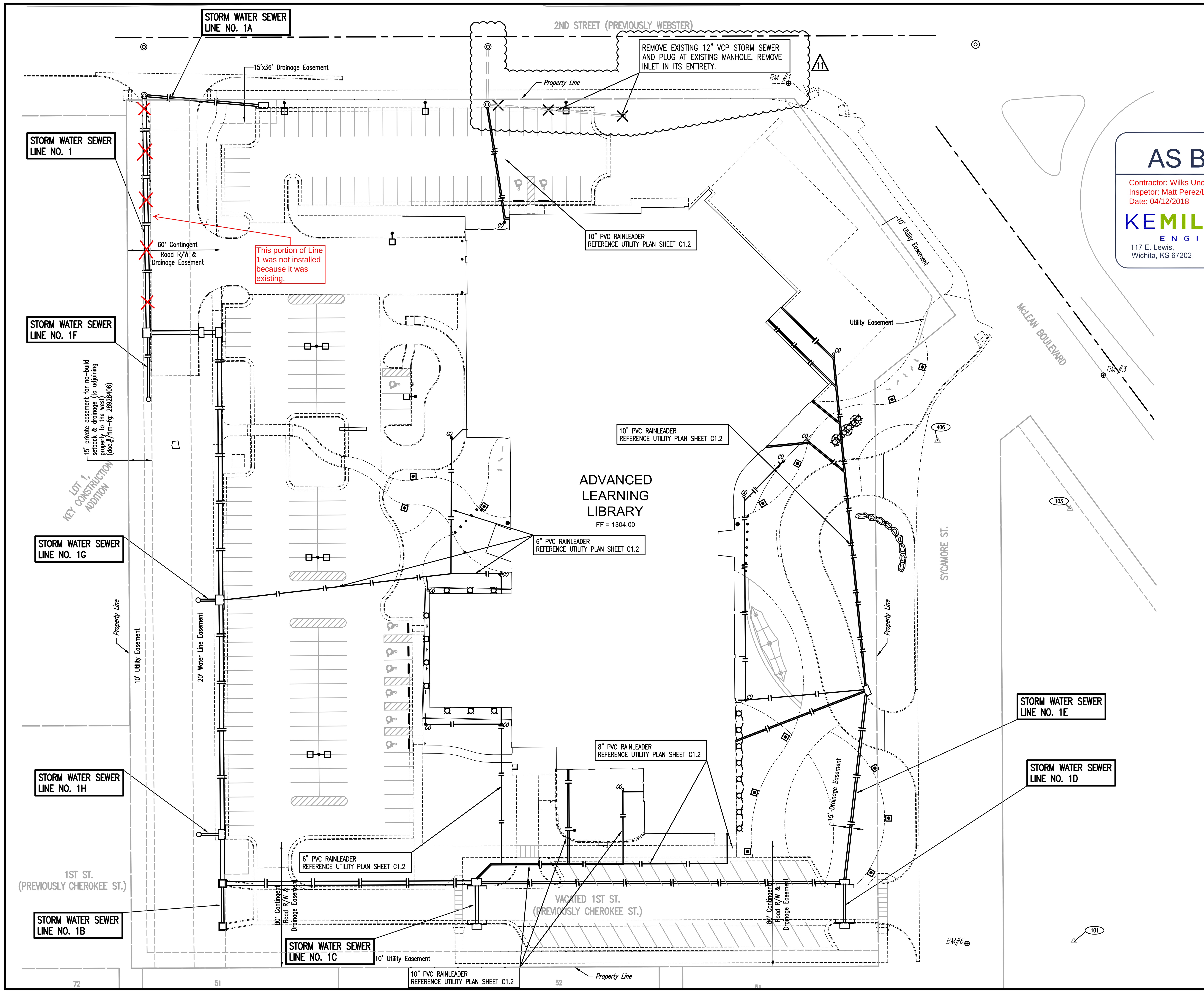
PPD TITLE SHEET

PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,C+E
CHK'D BY:

C4.1
SHEET OF

PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

Saved: 08–03–2016 3:47:21 PM by CAE
Plotted: 08–03–2016 4:03:04 PM by CAE
U:\Wichita–Fox\2013\13493\001\Mark\Drawings\13493–001–C4.1– PPD TITLESHEET



BENCHMARKS

BM #1 Elevation: 1302.22 NAVD88
Project Datum Bench Mark. Chiseled square on the top of curb at the west curb return at the southwest corner of 2nd Street and McLean Blvd. From R&B ALTA Survey dated October 15, 2014. (Pt. #100)

BM #2 Elevation: 1302.235 NAVD88 (NOT SHOWN)
Chiseled square on north corner of traffic signal vault in traffic island on southeast corner of 2nd Street and McLean Blvd, north vault of two vaults. (Also BM-2 in Final Plat of River Vista Village with a RECORD elevation of 1302.16 NAVD88.)

BM #3 Elevation: 1302.42 NAVD88
Chiseled square with divot in center, on top of northeast curb of southeast-bound McLean Blvd, 40 feet southeast of centerline of Sycamore Street, where utility marker posts show AT&T fiber optic line crossing McLean. (Pt. #403)

BM #4 Elevation: 1303.91 NAVD88 (NOT SHOWN)
Chiseled square with divot in center, on top of northeast curb of southeast-bound McLean Blvd, at southeast corner of Project, where old railroad right of way used to cross McLean Blvd (extension of Pacific Street), northeast of and in-line with a PVC gas line marker post and a PVC telephone marker post. (Pt. #404)

BM #5 Elevation: 1302.62 NAVD88 (NOT SHOWN)
Chiseled square on top of east curb of Sycamore Street, 680 feet south of intersection with McLean Blvd, 6 feet north of a light pole at the south right of way line of Pacific Street (old railroad right of way). (Pt. #400)

BM #6 Elevation: 1302.70 NAVD88
Railroad spike in west face of power pole on south side of driveway, on east side of Sycamore Street, 400 feet south of intersection of Sycamore and McLean Blvd. (Pt. #407)

CONTROL POINTS

Pt. No. 101
1/2" Rebar in grass
N: 19,519.9719, E: 20,127.4253
1. 205.1' NE to back of southwest curb for McLean Blvd
2. 69.3 W to back of east curb for Sycamore Street
3. 67' W power pole on south side of drive entrance in east side of Sycamore Street
4. 380' N to intersection of Sycamore and McLean

Pt. No. 102 (NOT SHOWN)
1/2" Rebar in grass
N: 19,500.0476, E: 20,310.0403
1. 70.3' NE to back of southwest curb for McLean Blvd
2. 251.7 W to back of east curb for Sycamore Street
3. 151.3' SE to south adjoiner's NE building corner

Pt. No. 103
1/2" Rebar in grass
N: 19,796.3604, E: 20,125.4932
1. 42.0' NE to back of southwest curb for McLean Blvd
2. 69.1 W to back of east curb for Sycamore Street
3. 104' NW to centerline of Sycamore at intersection with McLean Blvd

Pt. No. 403 (NOT SHOWN)
N: 19,881.7159, E: 20,146.6230
Divot in center of chiseled square for BM #3.

Pt. No. 404 (NOT SHOWN)
N: 19,494.5024, E: 20,434.5491
Divot in center of chiseled square for BM #4.

Pt. No. 405 (NOT SHOWN)
60D Nail
N: 19,264.5505, E: 20,044.1074
1. in centerline joint of Sycamore Street north and south
2. in centerline of gravel road Pacific Street to the west-southwest
3. 32.6' N to south edge of asphalt patch at centerline of Sycamore

Pt. No. 406
60D Nail
N: 19,839.7859, E: 20,040.7227
1. in centerline joint of Sycamore Street
2. at south end of curve for intersection of Sycamore and McLean

No.	Revision	By	Date

WICHITA PUBLIC LIBRARY NEW CENTRAL BRANCH BUILDING
STORM SEWER IMPROVEMENTS

PPD KEY MAP

GARY JANZEN, P.E. – CITY ENGINEER
PRIVATE PROJECT NO. 0358 PPD (607861)

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

Designed by TBK | Job No. 35-13493-001-6780 | Sht. C4.2 of
Drawn by CAE, IDK | Date AUGUST 2016

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

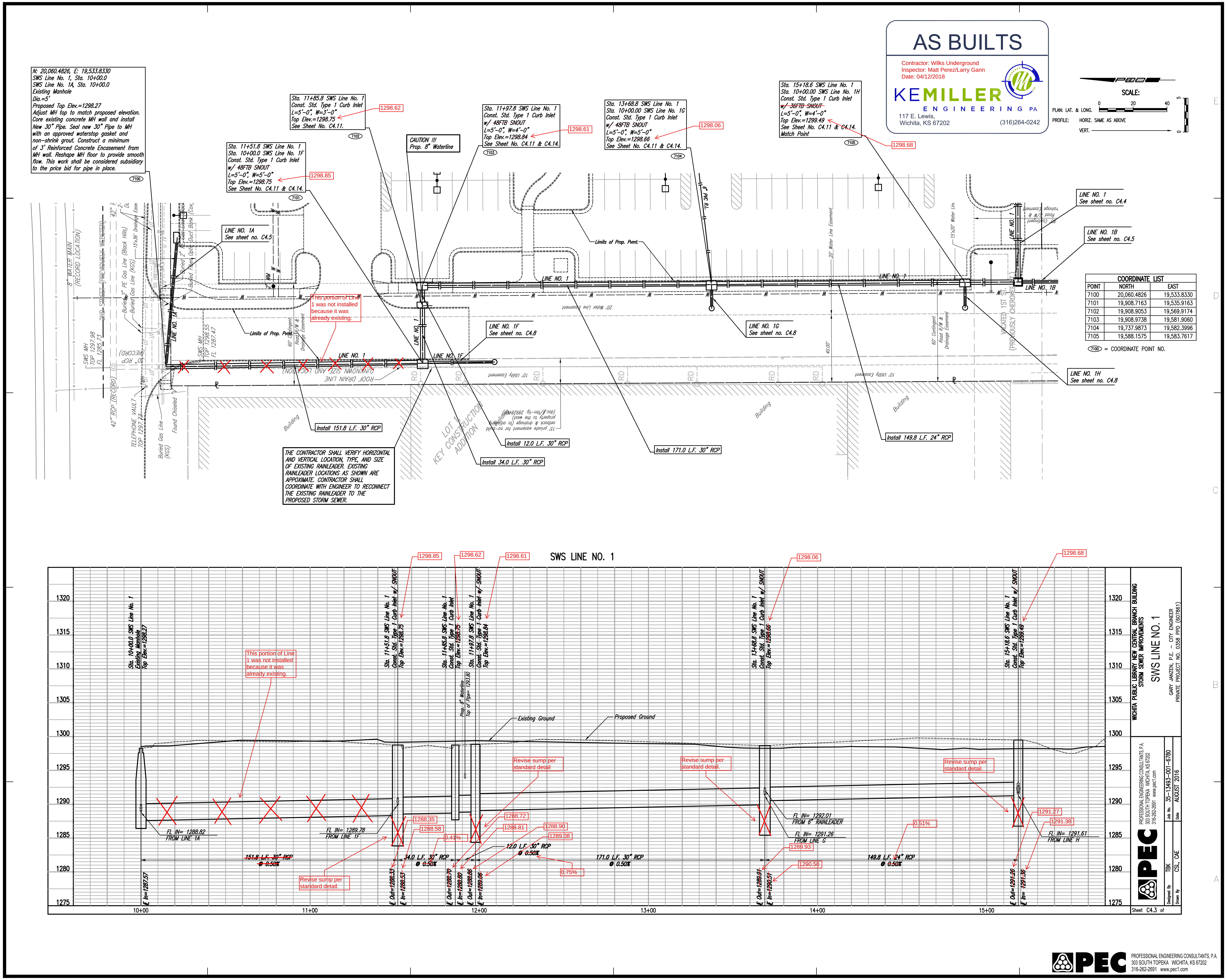
PPD KEY MAP

PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY:

C4.2

SHEET OF

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com


AS BUILTS
Contractor: Wilks Underground
Inspector: Matt Perez/Larry Gann
Date: 04/12/2018
KEMILLER ENGINEERING PA
117 E. Lewis,
Wichita, KS 67202
(316)264-0242
N: 20,060.4826, E: 19,533.8330
SWS Line No. 1, Sta. 10+00.0
SWS Line No. 1A, Sta. 10+00.0
Existing Manhole
Dia.=5'
Proposed Top Elev.=1298.27
Adjust MH top to match proposed elevation. Core existing concrete MH wall and install New 30" Pipe. Seal new 30" 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.
Sta. 11+51.8 SWS Line No. 1
Sta. 10+00.0 SWS Line No. 1F
Const. Std. Type 1 Curb Inlet
w/ 48FTB SNOUT
L=5'-0", W=5'-0"
Top Elev.=1298.75
See Sheet No. C4.11 & C4.14.
1298.85
Sta. 11+85.8 SWS Line No. 1
Const. Std. Type 1 Curb Inlet
L=5'-0", W=3'-0"
Top Elev.=1298.75
See Sheet No. C4.11.
1298.62
CAUTION !!!
Prop. 8" Waterline
Sta. 11+97.8 SWS Line No. 1
Const. Std. Type 1 Curb Inlet
w/ 48FTB SNOUT
L=5'-0", W=4'-0"
Top Elev.=1298.84
See Sheet No. C4.11 & C4.14.
1298.61
Sta. 13+68.8 SWS Line No. 1
Sta. 10+00.00 SWS Line No. 1G
Const. Std. Type 1 Curb Inlet
w/ 48FTB SNOUT
L=5'-0", W=5'-0"
Top Elev.=1298.66
See Sheet No. C4.11 & C4.14.
1298.06
Sta. 15+18.6 SWS Line No. 1
Sta. 10+00.00 SWS Line No. 1H
Const. Std. Type 1 Curb Inlet
w/ 36FTB SNOUT
L=5'-0", W=4'-0"
Top Elev.=1299.49
See Sheet No. C4.11 & C4.14.
Match Point
1298.68
LINE NO. 1A
See sheet no. C4.5
LINE NO. 1
See sheet no. C4.4
LINE NO. 1B
See sheet no. C4.5
LINE NO. 1F
See sheet no. C4.8
LINE NO. 1G
See sheet no. C4.8
LINE NO. 1H
See sheet no. C4.8
This portion of Line 1 was not installed because it was already existing.
Limits of Prop. Pvmt.
20' Water Line Easement
10' Utility Easement
ROOF DRAIN LINE (UNKNOWN SIZE AND LOCATION)
Install 151.8 L.F. 30" RCP
Install 12.0 L.F. 30" RCP
Install 34.0 L.F. 30" RCP
Install 171.0 L.F. 30" RCP
Install 149.8 L.F. 24" RCP
THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION, TYPE, AND SIZE OF EXISTING RAINLEADER. EXISTING RAINLEADER LOCATIONS AS SHOWN ARE APPOXIMATE. CONTRACTOR SHALL COORDINATE WITH ENGINEER TO RECONNECT THE EXISTING RAINLEADER TO THE PROPOSED STORM SEWER.
LOT 1, KEY CONSTRUCTION ADDITION
Building
COORDINATE LIST
POINT | NORTH | EAST
7100 | 20,060.4826 | 19,533.8330
7101 | 19,908.7163 | 19,535.9163
7102 | 19,908.9053 | 19,569.9174
7103 | 19,908.9738 | 19,581.9060
7104 | 19,737.9873 | 19,582.3996
7105 | 19,588.1575 | 19,583.7617
7100 = COORDINATE POINT NO.
SCALE:
PLAN: LAT. & LONG.
PROFILE: HORIZ. SAME AS ABOVE
VERT.
SWS LINE NO. 1
Existing Ground
Proposed Ground
Revise sump per standard detail.
151.8 L.F. 30" RCP @ 0.50%
34.0 L.F. 30" RCP @ 0.50%
12.0 L.F. 30" RCP @ 0.50%
171.0 L.F. 30" RCP @ 0.50%
149.8 L.F. 24" RCP @ 0.50%
FL IN= 1288.82 FROM LINE 1A
FL IN= 1289.78 FROM LINE 1F
FL IN= 1292.01 FROM 6" RAINLEADER
FL IN= 1291.26 FROM LINE G
FL IN= 1291.61 FROM LINE H
10+00
11+00
12+00
13+00
14+00
15+00
WICHITA PUBLIC LIBRARY NEW CENTRAL BRANCH BUILDING STORM SEWER IMPROVEMENTS
SWS LINE NO. 1
GARY JANZEN, P.E. - CITY ENGINEER
PRIVATE PROJECT NO. 0358 PPD (607861)
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com
35-13493-001-6780
AUGUST 2016
Sheet C4.3 of

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

SWS LINE NO. 1

PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY:

C4.3

SHEET OF

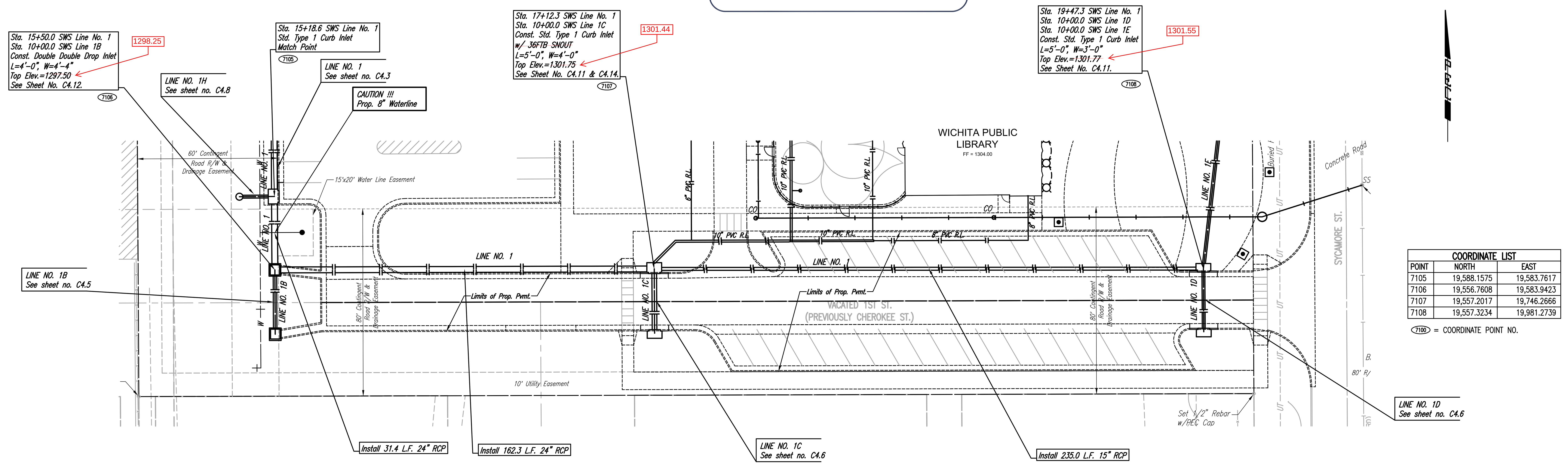
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

AS BUILTS

Contractor: Wilks Underground
Inspector: Matt Perez/Larry Gann
Date: 04/12/2018

KEMILLER ENGINEERING PA
117 E. Lewis,
Wichita, KS 67202
(316)264-0242

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

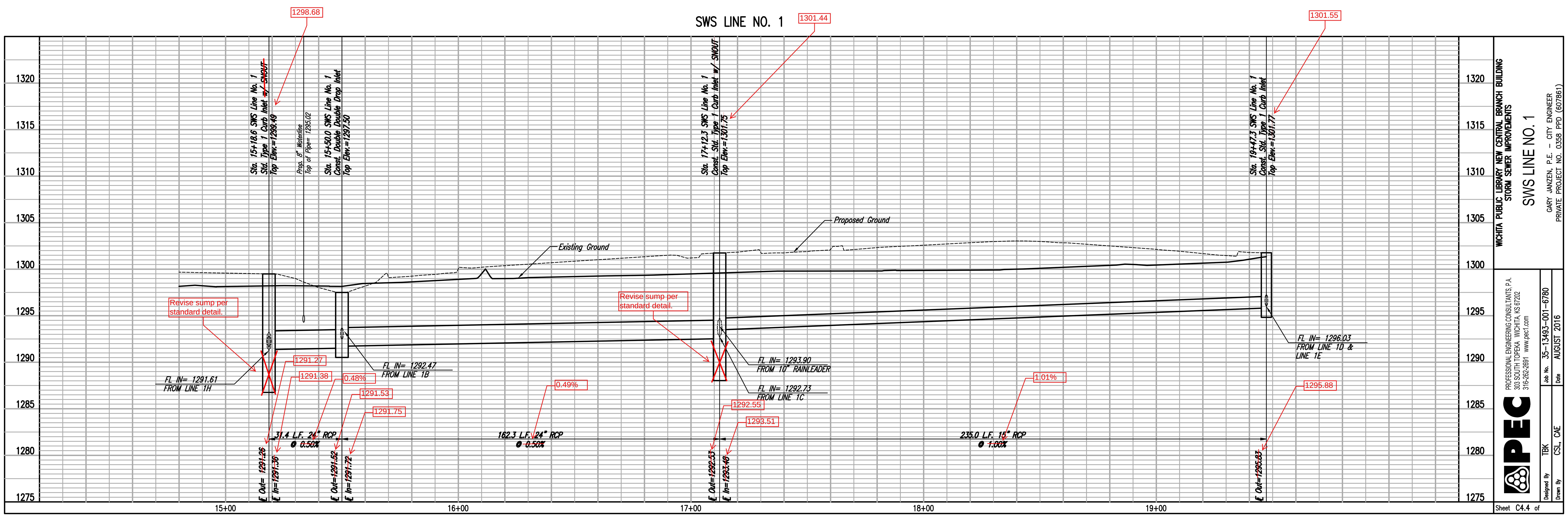


Sta. 15+50.0 SWS Line No. 1
Sta. 10+00.0 SWS Line 1B
Const. Double Double Drop Inlet
L=4'-0", W=4'-4"
Top Elev.=1297.50
See Sheet No. C4.12.
1298.25
7106
Sta. 15+18.6 SWS Line No. 1
Std. Type 1 Curb Inlet
Match Point
7105
LINE NO. 1H
See sheet no. C4.8
LINE NO. 1
See sheet no. C4.3
CAUTION !!!
Prop. 8" Waterline
Sta. 17+12.3 SWS Line No. 1
Sta. 10+00.0 SWS Line 1C
Const. Std. Type 1 Curb Inlet
w/ 36FTB SNOUT
L=5'-0", W=4'-0"
Top Elev.=1301.75
See Sheet No. C4.11 & C4.14.
1301.44
7107
Sta. 19+47.3 SWS Line No. 1
Sta. 10+00.0 SWS Line 1D
Sta. 10+00.0 SWS Line 1E
Const. Std. Type 1 Curb Inlet
L=5'-0", W=3'-0"
Top Elev.=1301.77
See Sheet No. C4.11.
1301.55
7108
WICHITA PUBLIC LIBRARY
FF = 1304.00
15'x20' Water Line Easement
LINE NO. 1
LINE NO. 1
Limits of Prop. Pvmt.
Limits of Prop. Pvmt.
VACATED 1ST ST.
(PREVIOUSLY CHEROKEE ST.)
SYCAMORE ST.
Concrete Road
LINE NO. 1B
See sheet no. C4.5
10' Utility Easement
Set 1/2" Rebar w/PEC Cap
LINE NO. 1D
See sheet no. C4.6
Install 31.4 L.F. 24" RCP
Install 162.3 L.F. 24" RCP
LINE NO. 1C
See sheet no. C4.6
Install 235.0 L.F. 15" RCP

COORDINATE LIST		
POINT	NORTH	EAST
7105	19,588.1575	19,583.7617
7106	19,556.7608	19,583.9423
7107	19,557.2017	19,746.2666
7108	19,557.3234	19,981.2739

(7100) = COORDINATE POINT NO.

SWS LINE NO. 1



1298.68
1301.44
1301.55
Sta. 15+18.6 SWS Line No. 1
Std. Type 1 Curb Inlet w/ SNOUT
Top Elev.=1299.49
Prop. 8" Waterline
Top of Pipe= 1295.02
Sta. 15+50.0 SWS Line No. 1
Const. Double Double Drop Inlet
Top Elev.=1297.50
Sta. 17+12.3 SWS Line No. 1
Const. Std. Type 1 Curb Inlet w/ SNOUT
Top Elev.=1301.75
Sta. 19+47.3 SWS Line No. 1
Const. Std. Type 1 Curb Inlet
Top Elev.=1301.77
Proposed Ground
Existing Ground
Revise sump per standard detail.
Revise sump per standard detail.
FL IN= 1291.61
FROM LINE 1H
FL IN= 1292.47
FROM LINE 1B
FL IN= 1293.90
FROM 10" RAINLEADER
FL IN= 1292.73
FROM LINE 1C
FL IN= 1296.03
FROM LINE 1D & LINE 1E
1291.27
1291.38
0.48%
1291.53
1291.75
0.49%
1292.55
1293.51
1.01%
1295.88
31.4 L.F. 24" RCP @ 0.50%
162.3 L.F. 24" RCP @ 0.50%
235.0 L.F. 15" RCP @ 1.00%
FL Out= 1291.26
FL In= 1291.36
FL Out= 1291.52
FL In= 1291.72
FL Out= 1292.53
FL In= 1293.46
FL Out= 1295.63
1320
1315
1310
1305
1300
1295
1290
1285
1280
1275
15+00
16+00
17+00
18+00
19+00

WICHITA PUBLIC LIBRARY NEW CENTRAL BRANCH BUILDING
STORM SEWER IMPROVEMENTS

SWS LINE NO. 1

GARY JANZEN, P.E. – CITY ENGINEER
PRIVATE PROJECT NO. 0358 PPD (607861)

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

Job No. 35-13493-001-6780
Date AUGUST 2016
Designed By TBK
Drawn By CSL, CAE
Sheet C4.4 of

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

SWS LINE NO. 1

PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY:

C4.4

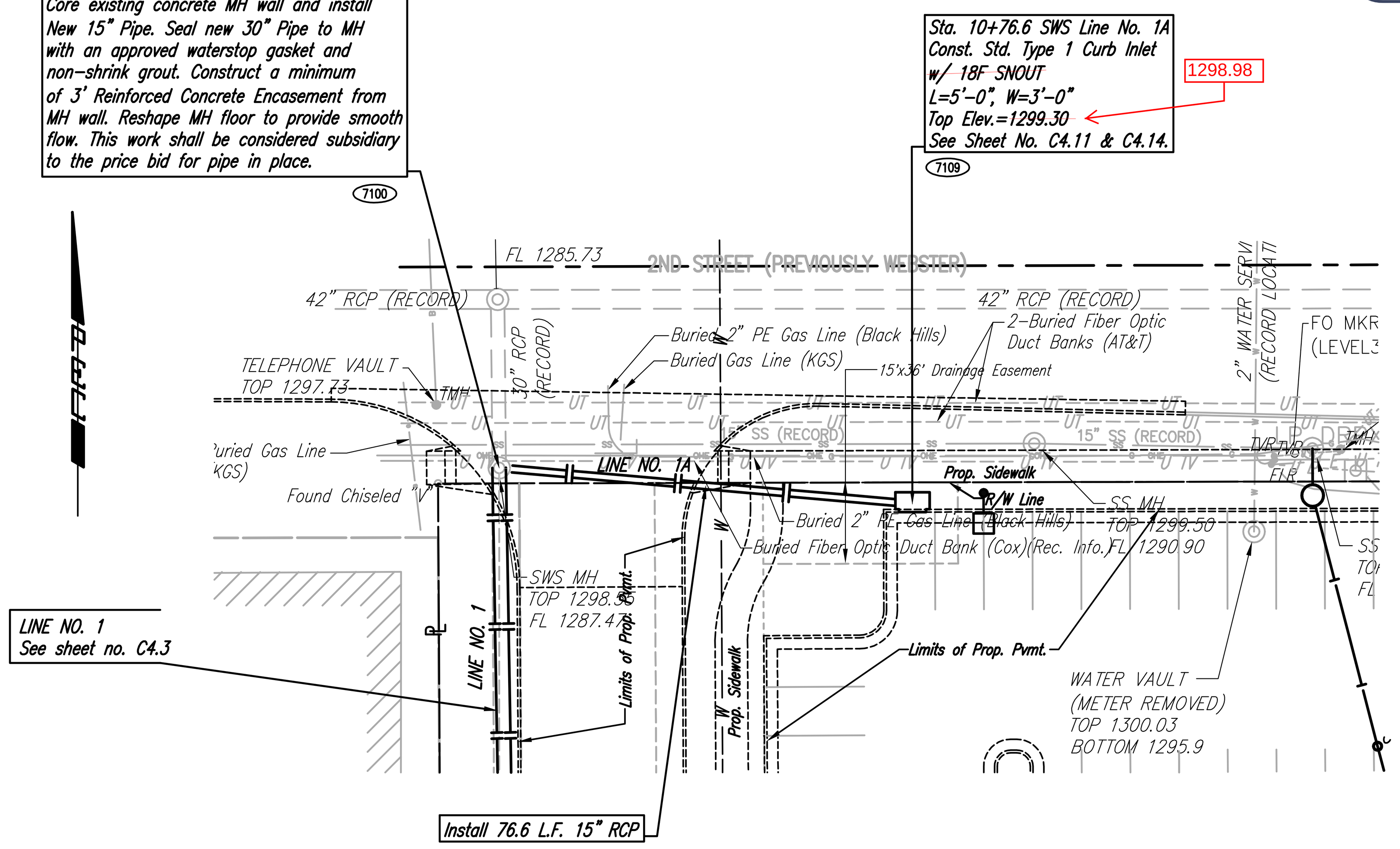
SHEET OF

Saved 12-18-2015 2:27:38 PM by CAE
U:\Wichita-Rail\2013\13493\001\Main\Drawings\13493-001-C4.4 SWS LINE NO. 1

AS BUILTS

Contractor: Wilks Underground
Inspector: Matt Perez/Larry Gann
Date: 04/12/2018

KEMILLER ENGINEERING PA
117 E. Lewis,
Wichita, KS 67202
(316)264-0242

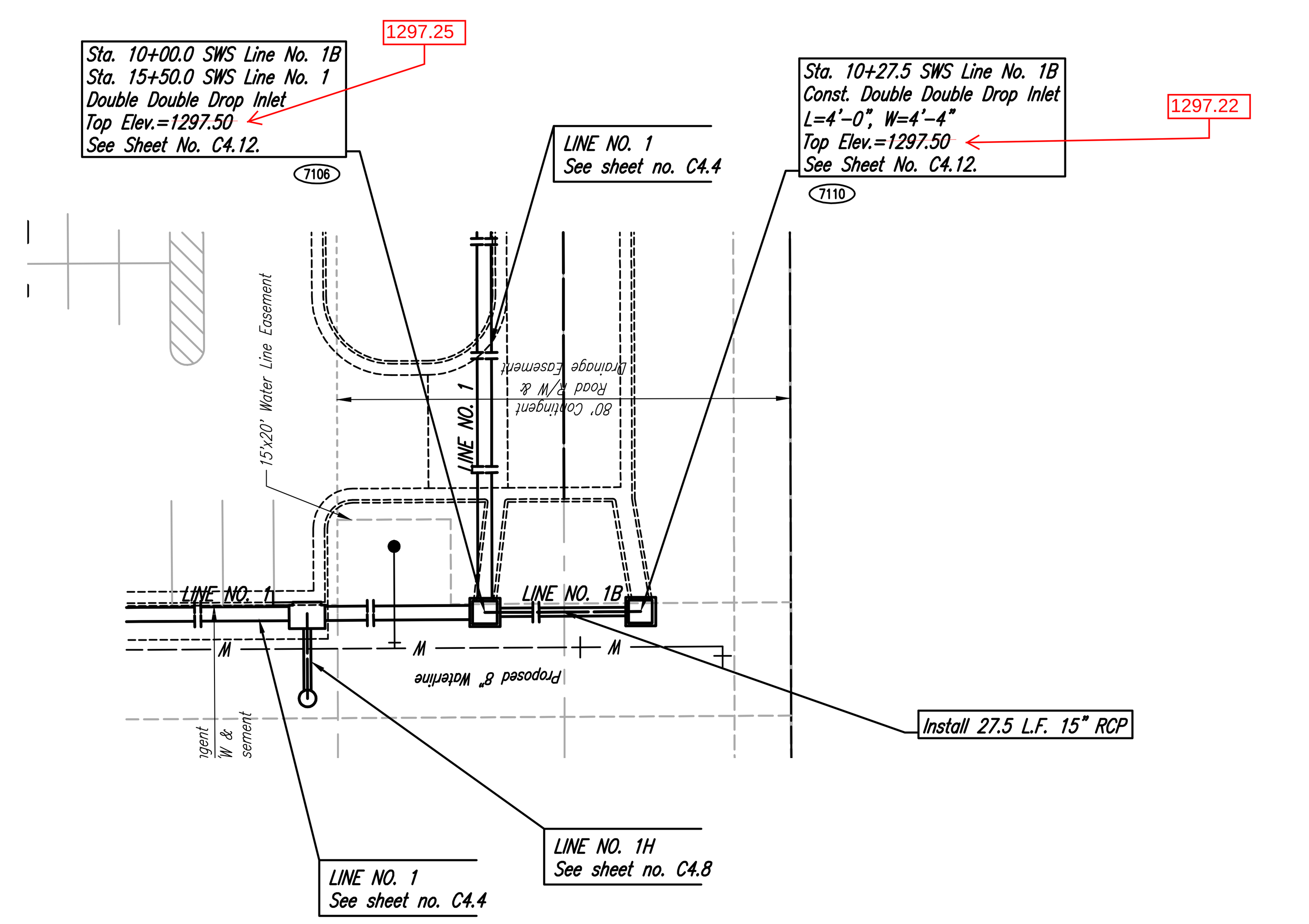


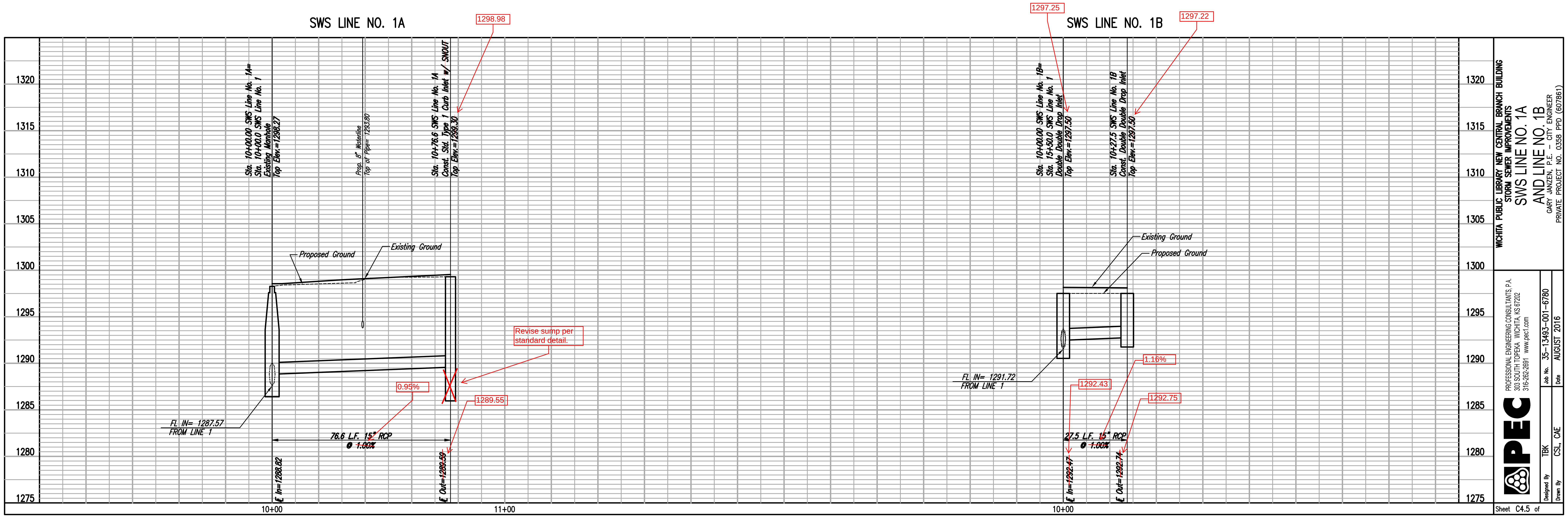
COORDINATE LIST

POINT	NORTH	EAST
7100	20,060.4826	19,533.8330
7106	19,556.7608	19,583.9423
7109	20,053.8090	19,610.2013
7110	19,529.2680	19,584.1005

(7100) = COORDINATE POINT NO.

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





WICHITA PUBLIC LIBRARY NEW CENTRAL BRANCH BUILDING
STORM SEWER IMPROVEMENTS
SWS LINE NO. 1A
AND LINE NO. 1B
GARY JANZEN, P.E. – CITY ENGINEER
PRIVATE PROJECT NO. 0358 PPD (607861)

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

Job No. 35-13493-001-6780
Date AUGUST 2016
Designed By TBK
Drawn By CSL, CAE
Sheet C4.5 of

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CHARLES G. ... 7581 08/04/2016 KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

SWS LINE NO. 1A
AND LINE NO. 1B

PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY:

C4.5

SHEET OF

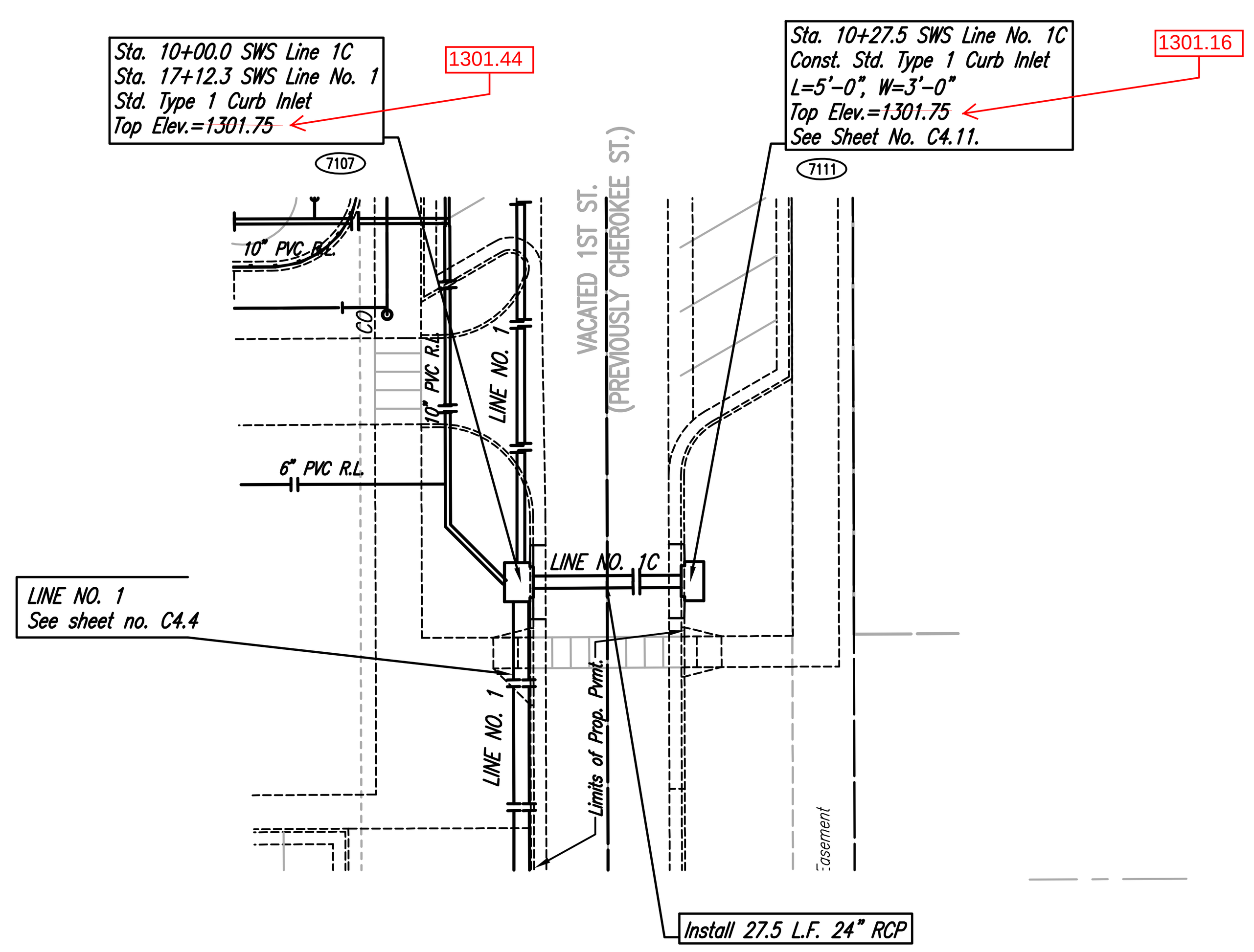
Saved 07-08-2016 8:21:17 AM by CAE
Plot Scale 1:1 08-05-2016 4:03 PM by CAE
U:\Wichita-Facil\2013\13493\001\Auto\Drawings\13493-001-C4.5 SWS LINE NO. 1A AND 1B

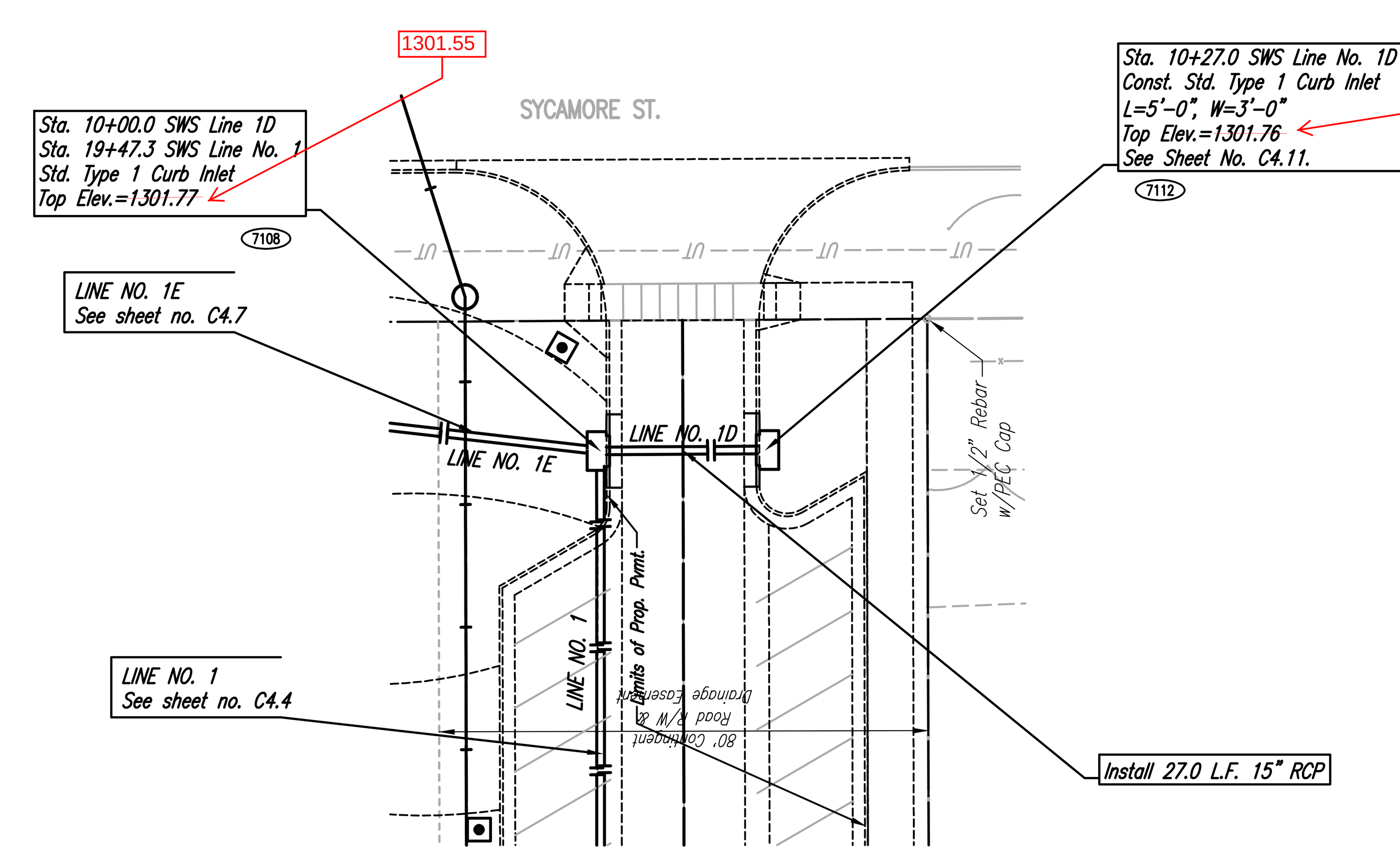
AS BUILTS

Contractor: Wilks Underground
Inspector: Matt Perez/Larry Gann
Date: 04/12/2018

KEMILLER ENGINEERING PA
117 E. Lewis,
Wichita, KS 67202
(316)264-0242

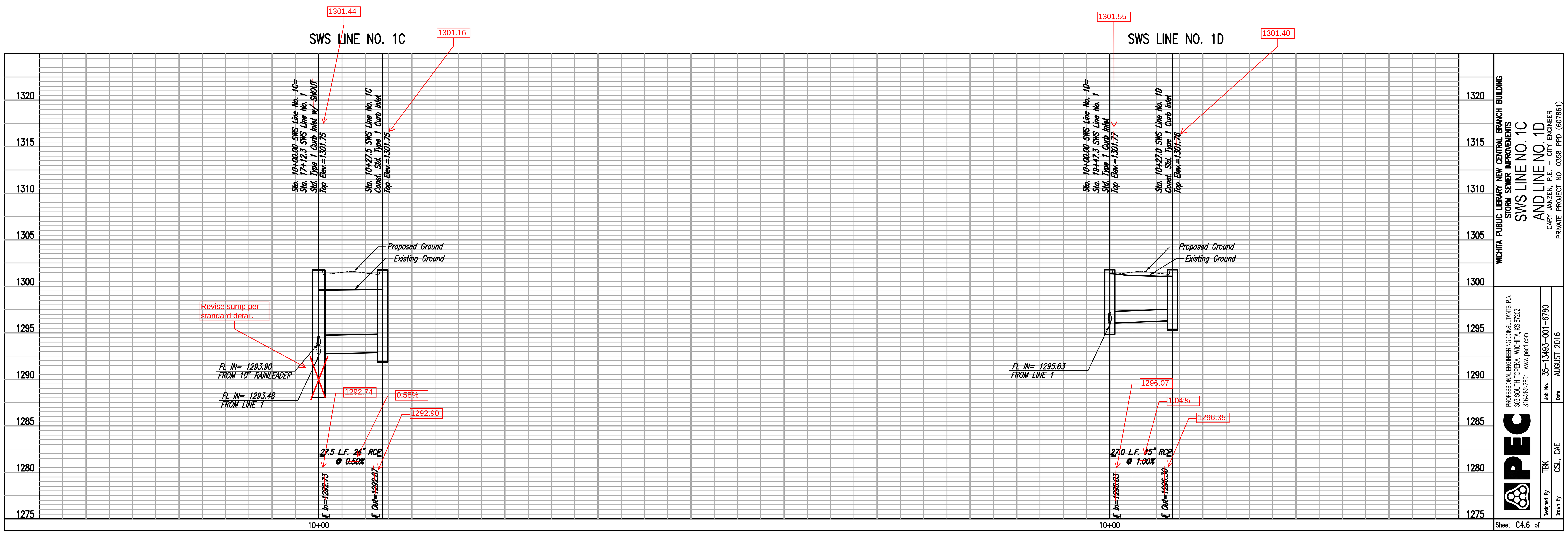
SCALE:
PLAN: LAT. & LONG. 0 20 40
PROFILE: HORIZ. SAME AS ABOVE
VERT. 0 5





COORDINATE LIST		
POINT	NORTH	EAST
7107	19,557.1950	19,746.2719
7108	19,557.3396	19,981.2692
7111	19,529.7020	19,746.4384
7112	19,530.3315	19,981.4373

(7100) = COORDINATE POINT NO.



WICHITA PUBLIC LIBRARY NEW CENTRAL BRANCH BUILDING
STORM SEWER IMPROVEMENTS
SWS LINE NO. 1C
AND LINE NO. 1D
GARY JANZEN, P.E. - CITY ENGINEER
PRIVATE PROJECT NO. 0358 PPD (607861)

PEC — PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

Job No. 35-13493-001-6780
Date AUGUST 2016
Designed By TBK
Drawn By CSL, CAE
Sheet C4.6 of

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

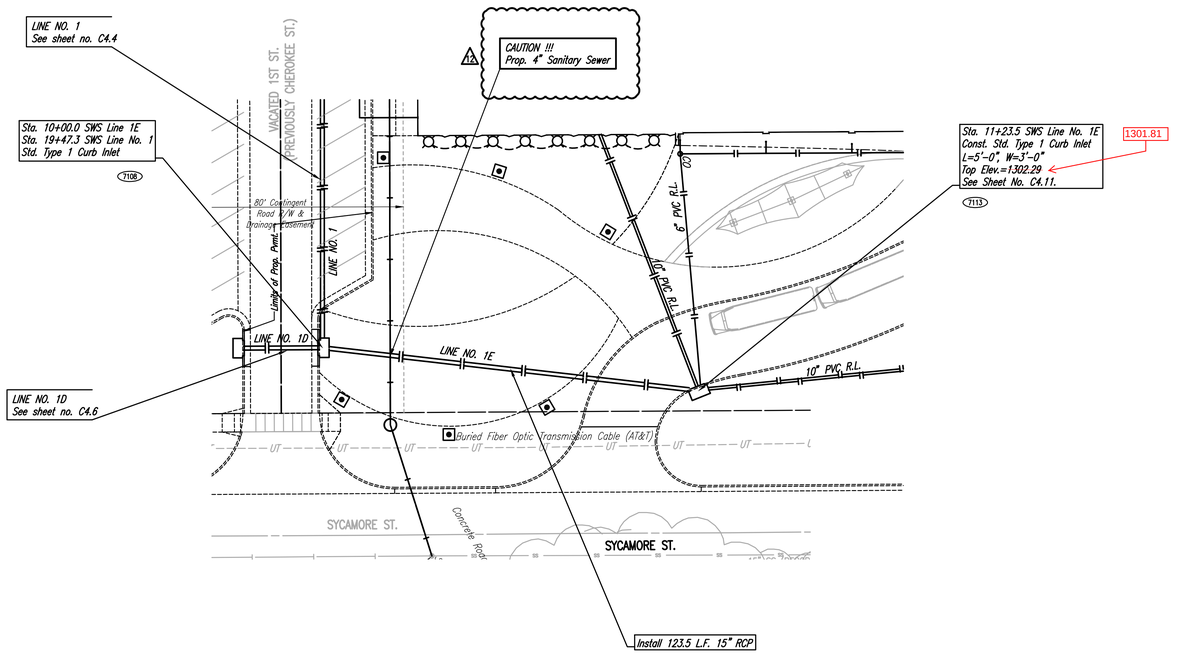
SWS LINE NO. 1C
AND LINE NO. 1D

PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY:

C4.6
SHEET OF

Saved 07-08-2016 8:22:53 AM by CAE
Plot Scale 1:1 08-08-2016 4:01 PM by CAE
U:\Wichita-Tool\2013\13493\001\Main\Drawings\13493-001-C4.6 SWS LINE NO. 1C AND 1D

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



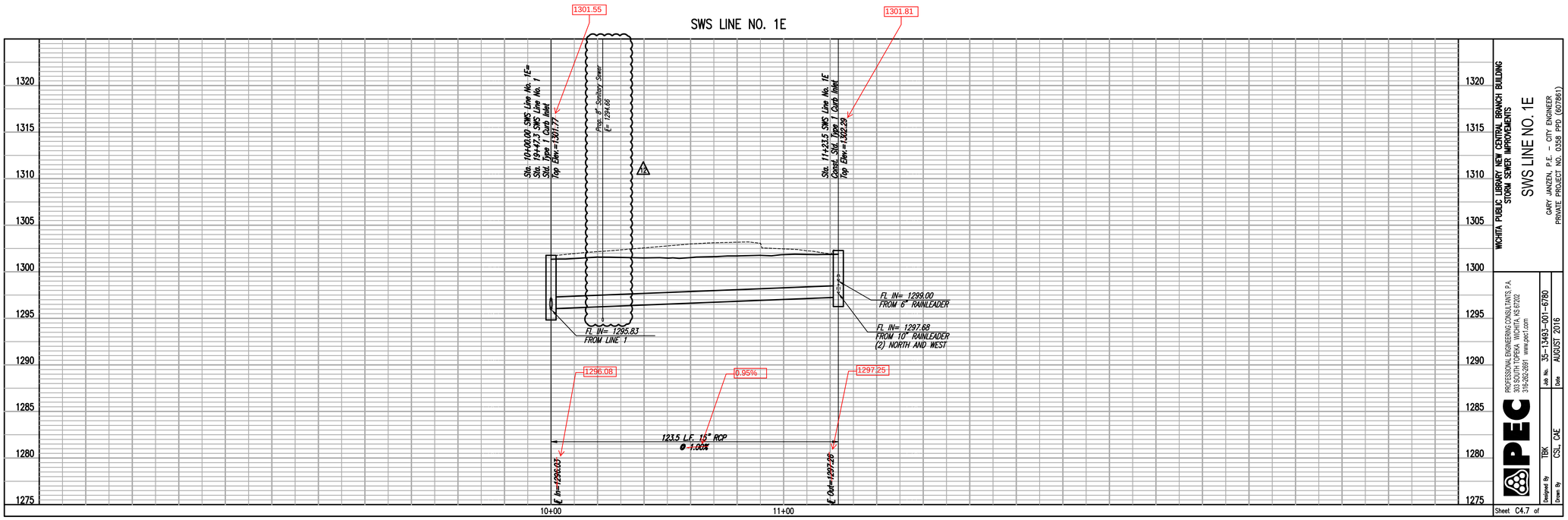
AS BUILTS

Contractor: Wilks Underground
Inspector: Matt Perez/Larry Gann
Date: 04/12/2018

KEMILLER ENGINEERING PA
117 E. Lewis,
Wichita, KS 67202
(316)264-0242

COORDINATE LIST		
POINT	NORTH	EAST
7108	19,557.3234	19,981.2739
7109	19,680.0352	19,995.2976

7100 = COORDINATE POINT NO.



GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CHARLES S. GLOVER
SPECIAL CERTIFICATE
7581
08/04/20 6
KANSAS
PROFESSIONAL ENGINEER

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

WICHITA PUBLIC LIBRARY NEW CENTRAL BRANCH BUILDING
STORM SEWER IMPROVEMENTS
SWS LINE NO. 1E
GARY JANZEN, P.E. – CITY ENGINEER
PRIVATE PROJECT NO. 0358 PPD (607861)

PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

Designed By: TBK
Drawn By: CSL, CAE
Job No. 35-13493-001-6780
Date AUGUST 2016

SWS LINE NO. 1E

PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY:

C4.7
SHEET OF

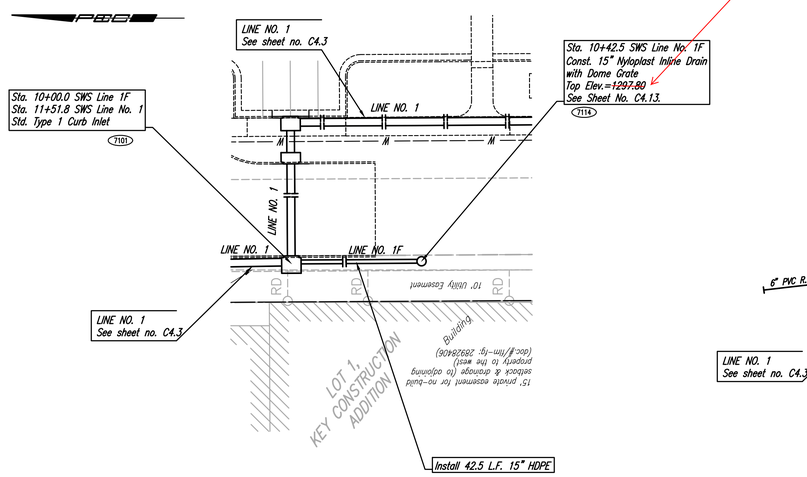
Saved: 08-03-2016 11:51:14 AM by CAE
Plotted: 08-03-2016 11:52:16 AM by CAE
U:\Wichita-Fisch\2013\13493\001\Work\Drawings\13493-001-C4.7 SWS LINE NO. 1E

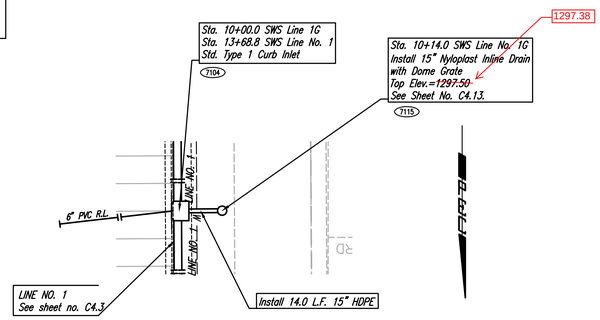
AS BUILTS

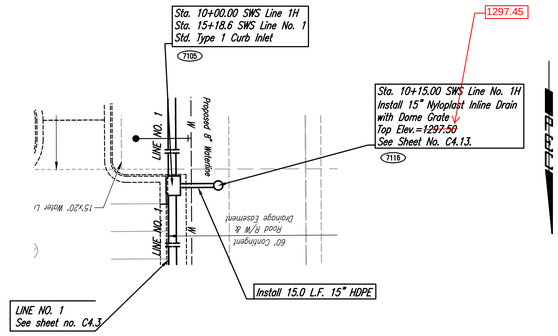
Contractor: Wilks Underground
Inspector: Matt Perez/Larry Gann
Date: 04/12/2018

KEMILLER ENGINEERING PA
117 E. Lewis,
Wichita, KS 67202
(316)264-0242

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

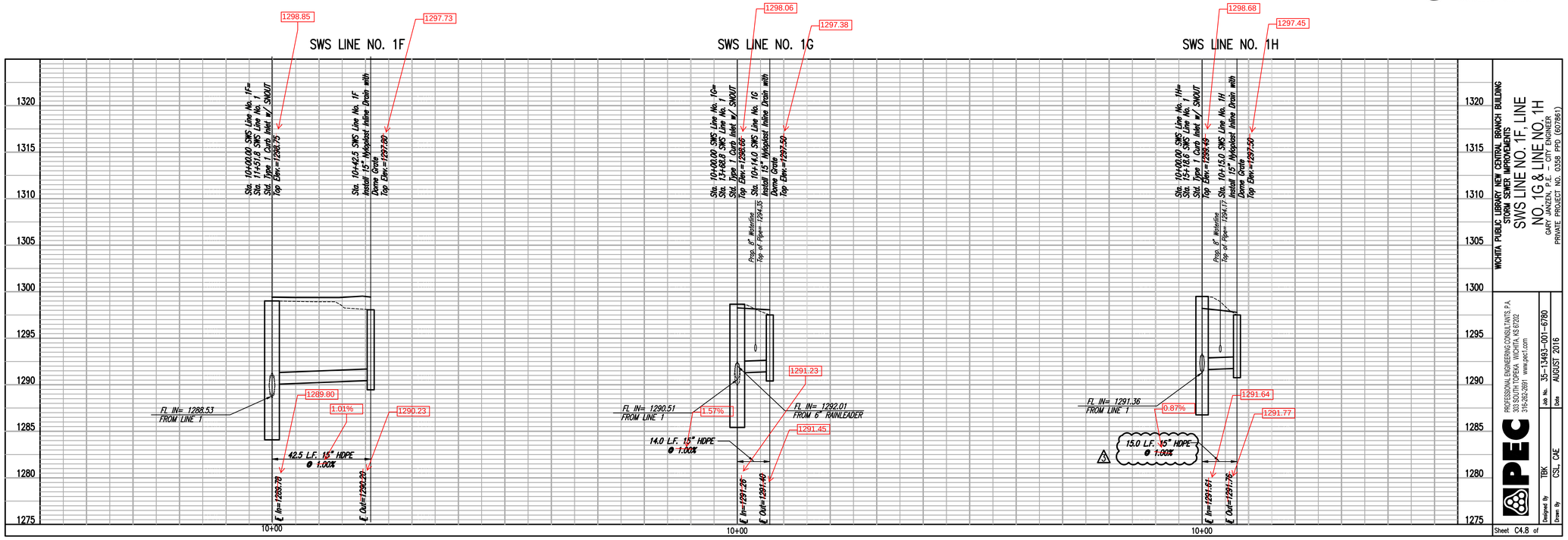






COORDINATE LIST		
POINT	NORTH	EAST
7101	19,908.7081	19,536.9299
7104	19,737.9758	19,582.8974
7105	19,588.1575	19,583.7617
7114	19,866.2630	19,536.6629
7115	19,737.8932	19,568.3921
7116	19,588.0722	19,568.7619

(7100) = COORDINATE POINT NO.



GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

PROFESSIONAL ENGINEER
CHARLES A. CAZEN
7581
08/04/2016
KANSAS
PROFESSIONAL ENGINEER

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

SWS LINE NO. 1F, LINE NO. 1G & LINE NO. 1H

PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY:

C4.8

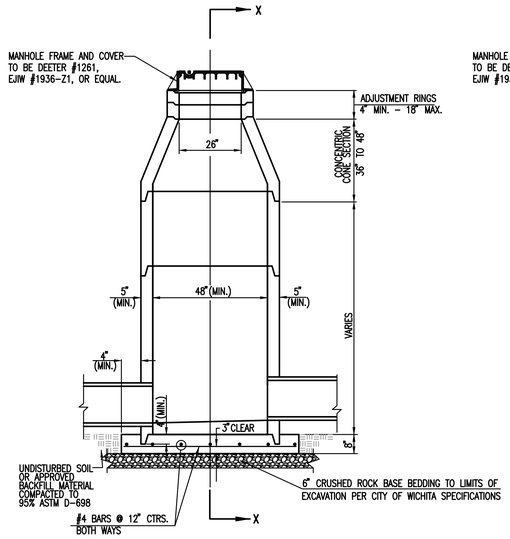
SHEET OF

PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

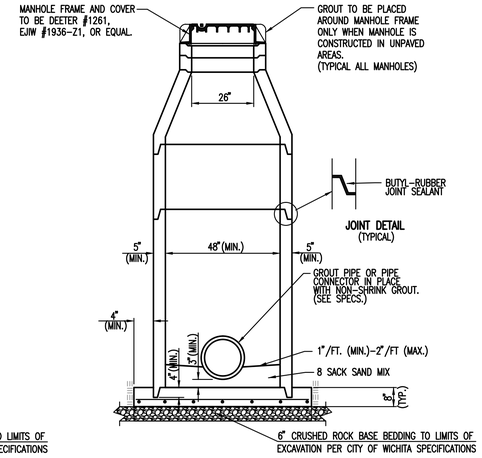
WICHITA PUBLIC LIBRARY NEW CENTRAL BRANCH BUILDING
STORM SEWER IMPROVEMENTS
SWS LINE NO. 1F, LINE NO. 1G & LINE NO. 1H
GARY JANZEN, P.E. - CITY ENGINEER
PRIVATE PROJECT NO. 0358 PPD (607861)

PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com
Job No. 35-13493-001-6780
Date AUGUST 2016
Designed By TBK
Drawn By CSL, CAE
Sheet C4.8 of

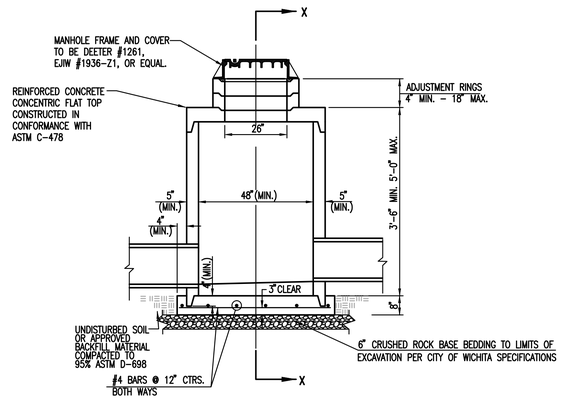
Saved: DE-07-2016 10:08:32 AM by DE
Plotted: 08-11-2016 4:05:59 PM by DE
U:\Wichita-Fisch\2013\13493\001\Work\Drawings\13493-001-C4.8 SWS LINE NO. 1F AND 1G



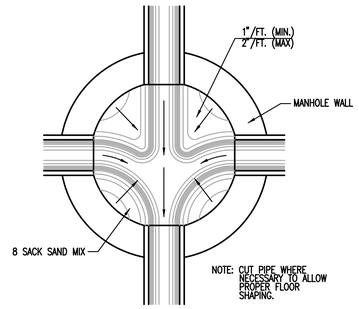
PRECAST
STANDARD MANHOLE
TYPE "A"



SECTION X-X
(TYPICAL)



PRECAST
SHALLOW MANHOLE
TYPE "B"



TYPICAL MANHOLE
FLOOR SHAPING

GENERAL NOTES

1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
2. STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
3. ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
4. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
5. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C-478 AS MODIFIED BY THE SPECIFICATIONS.
6. CONCRETE USED FOR MANHOLE CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO MANHOLE BASE.
8. MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5 FOOT INSIDE DIAMETER (MIN.)
9. MANHOLES WITH PRECAST BASES MAY BE USED AT THE CONTRACTORS OPTION. THESE MANHOLES SHALL HAVE AN 8" MINIMUM BASE THICKNESS AND SHALL BE PLACED ON AN 8" MIN. CRUSHED ROCK BASE. PIPES SHALL BE ENCASED WITH CRUSHED ROCK TO AT LEAST 3 FEET FROM THE MANHOLE WALL.
10. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN MANHOLE WALL SHALL BE GROUTED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.
11. THE ENDS OF ALL PIPES IN MANHOLES SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE MANHOLE WALL.
12. MANHOLE INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE MANHOLE WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
13. MANHOLE FRAME AND COVER TO BE DEETER #1261, EJIW #1936-Z1, OR APPROVED EQUAL, SEE SW-303.
14. FOR FLAT GRATED INLET APPLICATION, GRATE TO BE DEETER #1933, EJIW #1205 MDI, OR APPROVED EQUAL.
15. FOR BEEHIVE GRATE APPLICATION, GRATE TO BE DEETER #4495, EJIW #120545, OR APPROVED EQUAL.

REVISED: MARCH 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

PRECAST CONCRETE MANHOLE (STORM SEWER)

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
__ PPD		

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
C4.9

SW-301

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

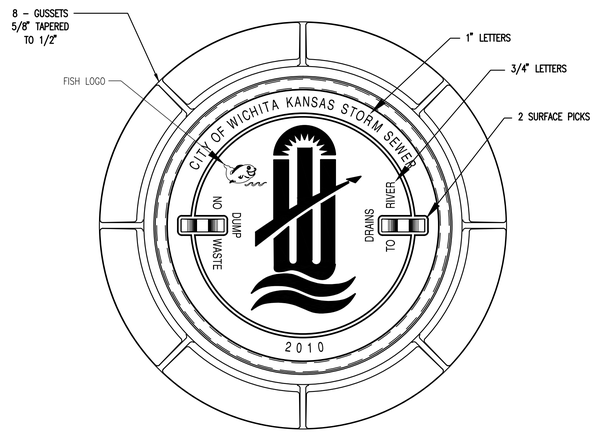
MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

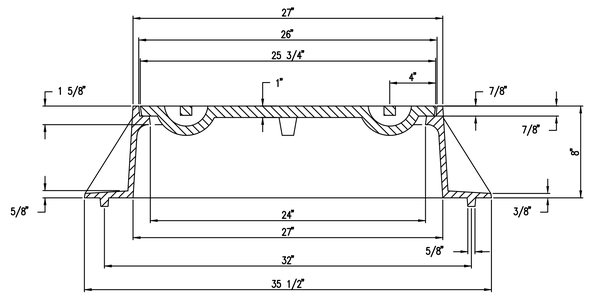
PRECAST CONCRETE MANHOLE (STORM SEWER)

PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY:

C4.9
SHEET OF

PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

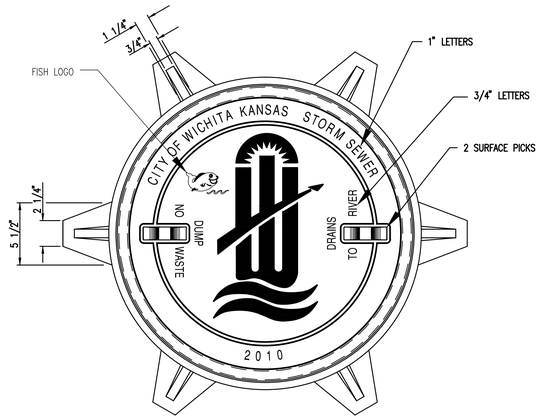


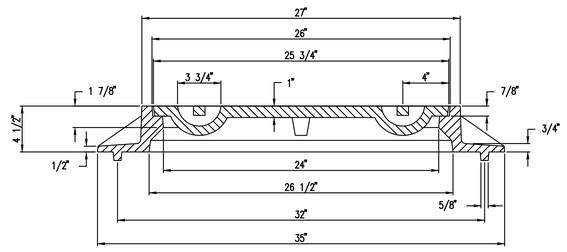


MANHOLE FRAME

DEETER #1261 OR EJIW #1936–Z1

NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.
2. COVER TO BE DEETER #1261 OR EJIW #1936A.





INLET FRAME

DEETER #2014 OR EJIW #1936–Z4

NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES.
2. NOT TO BE USED UNDER PAVEMENT.
3. COVER TO BE DEETER #1261 OR EJIW #1936A.

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

MANHOLE/INLET FRAME AND COVER (STORM SEWER)

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
__ PPD		11/2010

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET C4.10

SW–303

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

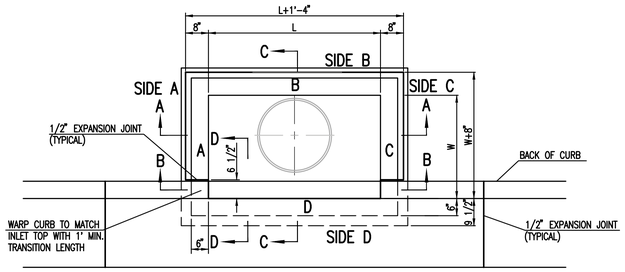
MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

MANHOLE-INLET FRAME AND COVER (STORM SEWER)

PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY:

C4.10
SHEET OF

PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com



TOP VIEW

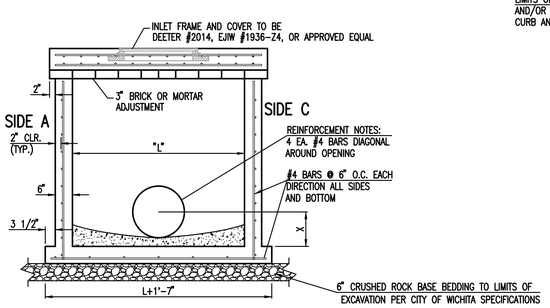
BAR SCHEDULE		
INLET OPENING	B1 BARS	SPACING
5'-0"	#4	4"
10'-0"	#6	3.5"

PRECAST CURB INLET WIDTHS				
W	PRE-CAST TOP SIZE			PIPE DIA.**
	WIDTH	LENGTH	TOP	
3'-0"	W+8"	L+1'-4"	7 1/2"	21" & SMALLER
4'-0"	W+8"	L+1'-4"	7 1/2"	24" & 30"
5'-0"	W+8"	L+1'-4"	7 1/2"	36" & 42"
6'-0"	W+8"	L+1'-4"	7 1/2"	48" & 54"
7'-0"	W+8"	L+1'-4"	7 1/2"	60" & 66"

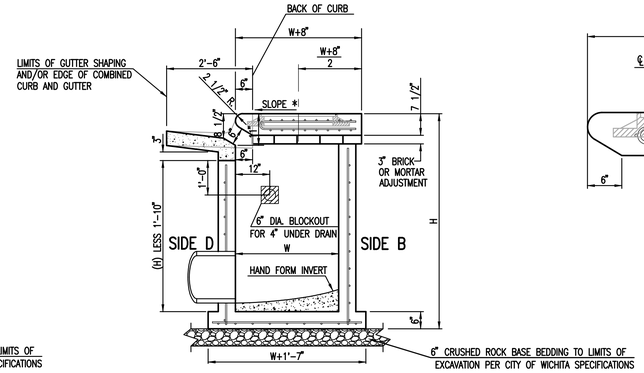
** FOR PIPES PERPENDICULAR TO INLET WALL

GENERAL NOTES

1. CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
2. CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP OF THIS INLET WHEN W=5'-0" AND H=7'-0" OR LESS.
3. INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
4. THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.
5. INLET FRAME AND COVER TO BE DEETER #2014, EJIW #1936 Z4, OR APPROVED EQUAL, SEE SW-303.
6. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.

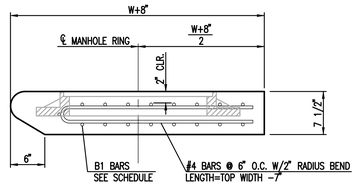


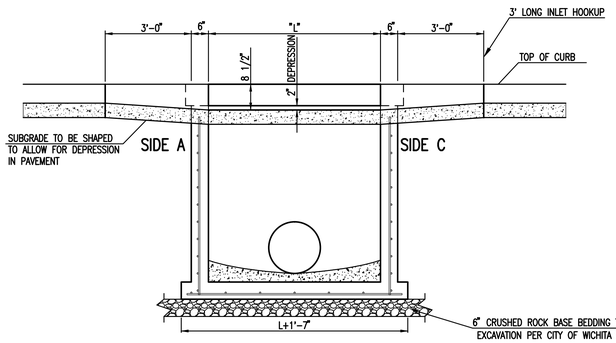
SECTION "A-A"



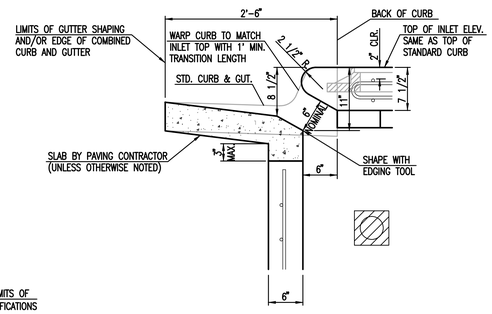
SECTION "C-C"

NOTES:
* SLOPE OF INLET TOP TO MATCH SIDEWALK OR PARKING SLOPES WITHIN LIMITS INDICATED.





SECTION "B-B"



SECTION "D-D"

REVISED: MARCH 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

STANDARD TYPE 1
CURB INLET
5'-0" OR 10'-0" OPENING

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
___ PPD		

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
C4.11

SW-101

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

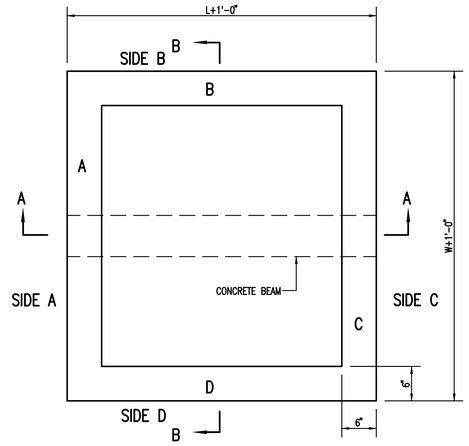
MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

STANDARD TYPE 1
CURB INLET

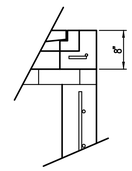
PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY:

C4.11
SHEET OF

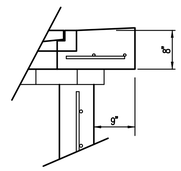
PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com



TOP VIEW

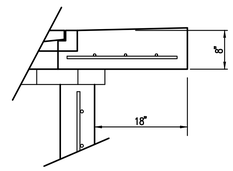


FLUSH STYLE TOP
NO APRON



9" APRON

* APRON TO EXTEND ON ALL 4 SIDES OF INLET.
DESIGNER TO DESIGNATE APRON SIZE.

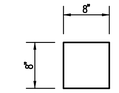


18" APRON

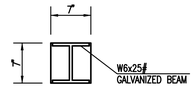
W=4'-4" and L=4' for DOUBLE DROP INLET

The structure(s) on this detail sheet are designed for HS-20 loading at these specific dimensions only. If larger dimensions are required, the ENGINEER shall provide a project specific structure design for approval by the City Engineer's office.

BEAM REQUIRED FOR THIS INLET



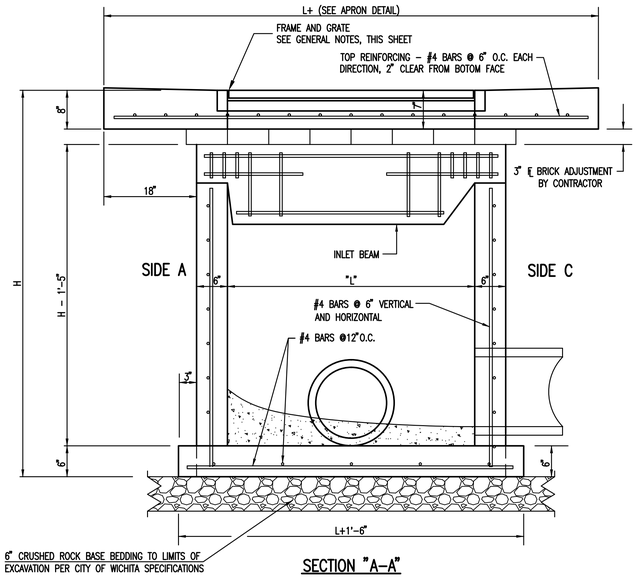
CONCRETE BEAM POCKET



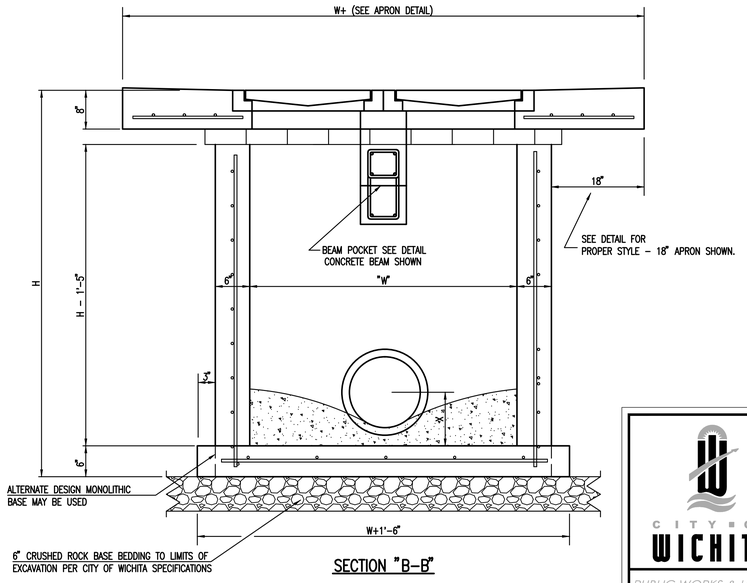
GALV. STEEL BEAM POCKET

GENERAL NOTES

1. GRATE FRAME TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK. CONCRETE USED FOR INLET CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
2. INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
3. THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.
4. INLET FRAME AND GRATE TO BE DEETER #2433, EJIW #5391-Z1 OR APPROVED EQUAL FOR 2'x2' SINGLE DROP INLET AND DEETER #2434, EJIW #5391 Z3 OR APPROVED EQUAL FOR 2'x4' DOUBLE DROP INLET.
5. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.



SECTION "A-A"



SECTION "B-B"

REVISED: MARCH 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DOUBLE DOUBLE DROP INLET WITH BEAM

CITY ENGINEER
GARY JANZEN, P.E..

PROJECT NUMBER	OCA NUMBER	DATE
___ PPD		

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
C4.12

SW-202

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

DOUBLE-DOUBLE DROP INLET (STORM SEWER)

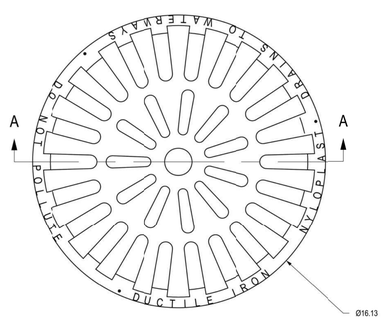
PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY:

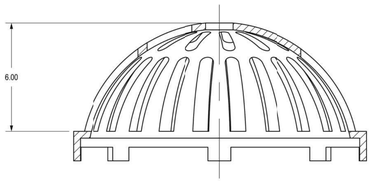
C4.12
SHEET OF

PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

1599CGD

APPROX. DRAIN AREA = 122.07 SQ IN
APPROX. WEIGHT = 26.50 LBS





SECTION A-A

DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST

DRAWN BY	EBC	MATERIAL	DUCTILE IRON
DATE	3-7-06		
REVISED BY	EBC	PROJECT NO./NAME	
DATE	3-23-11		
DWG SIZE	A	SCALE 1:4	SHEET 1 OF 1

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 15 IN DOME GRATE

DWG NO. 7001-110-211 REV D

ADS N-12® ST IB PIPE (per ASTM F2648) SPECIFICATION

Scope
This specification describes 4- through 60-inch (100 to 1500 mm) ADS N-12 ST IB pipe (per ASTM F2648) for use in gravity-flow land drainage applications.

Pipe Requirements
ADS N-12 ST IB pipe (per ASTM F2648) shall have a smooth interior and annular exterior corrugations.
- 4- through 60-inch (100 to 1500 mm) shall meet ASTM F2648.
- Manning's "n" value for use in design shall be 0.012.

Joint Performance
Pipe shall be joined using a bell & spigot joint meeting ASTM F2648. The joint shall be soil-tight and gaskets, when applicable, shall meet the requirements of ASTM F477. Gaskets shall be installed by the pipe manufacturer and covered with a removable wrap to ensure the gasket is free from debris. A joint lubricant supplied by the manufacturer shall be used on the gasket and bell during assembly.

Fittings
Fittings shall conform to ASTM F 2306. Bell and spigot connections shall utilize a spun-on or welded bell and valley or saddle gasket meeting the soil-tight joint performance requirements of ASTM F 2306.

Material Properties
Material for pipe production shall be an engineered compound of virgin and recycled high density polyethylene conforming with the minimum requirements of cell classification 424420C (ESCR Test Condition B) for 4- through 10-inch (100 to 250 mm) diameters, and 435420C (ESCR Test Condition B) for 12- through 60-inch (300 to 1500 mm) diameters, as defined and described in the latest version of ASTM D3350, except that carbon black content should not exceed 4%. The design engineer shall verify compatibility with overall system including structural, hydraulic, material and installation requirements for a given application.

Installation
Installation shall be in accordance with ASTM D2321 and ADS recommended installation guidelines, with the exception that minimum cover in trafficked areas for 4- through 48-inch (100 to 1200 mm) diameters shall be one foot. (0.3 m) and for 60-inch (1500 mm) diameters, the minimum cover shall be 2 ft. (0.6 m) in single run applications. Backfill for minimum cover situations shall consist of Class 1 (compacted), or Class 2 (minimum 90% SPD) material. Maximum fill heights depend on embedment material and compaction level; please refer to Technical Note 2.02. Contact your local ADS representative or visit our website at www.ads-pipe.com for a copy of the latest installation guidelines.

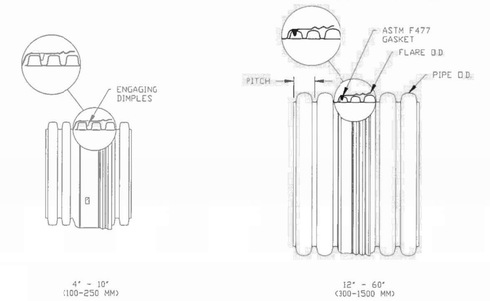
Pipe Dimensions

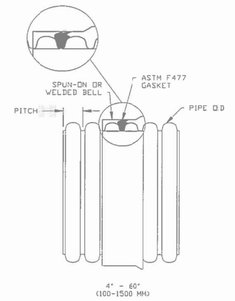
	Nominal Diameter, in (mm)														
Pipe I.D. in (mm)	4 (100)	6 (150)	8 (200)	10 (250)	12 (300)	15 (375)	18 (450)	24 (600)	30 (750)	36 (900)	42 (1050)	48 (1200)	54* (1350)	60 (1500)
Pipe O.D.** in (mm)	4.8 (122)	6.9 (175)	9.1 (231)	11.4 (290)	14.5 (368)	18 (457)	22 (559)	28 (711)	36 (914)	42 (1067)	48 (1219)	54 (1372)	61 (1549)	67 (1702)
Perforations	All diameters available with or without perforations.														

*Check with sales representative for availability by region.
**Pipe OD. values are provided for reference purposes only, values stated for 12- through 60-inch are ± 1 inch. Contact a sales representative for exact values.

N-12® ST IB (per ASTM F2648) JOINT SYSTEM

(Joint configuration & availability subject to change without notice. Product detail may differ slightly from actual product appearance.)





Section 2722

Engineered Surface Drainage Products

GENERAL
PVC surface drainage inlets shall be of the inline drain type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS
The inline drain required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the furnished configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the inline drain body by use of a **swage mechanical joint**. The raw material used to manufacture the pipe stock that is used to manufacture the inline drain body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates furnished for all surface drainage inlets shall be ductile iron grates for sizes 8", 10", 12", 15", 18", 24" and 30" shall be made specifically for each fitting so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for inline drains shall be capable of supporting H-20 wheel loading for traffic areas or H-10 loading for pedestrian areas. 12" and 15" square grates will be hinged to the frame using pins. Metal used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05 for ductile iron. Grates shall be provided painted black.

INSTALLATION
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1 or class 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be placed to set the grate to the final grade height. For H-20 load rated installations, a concrete ring will be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

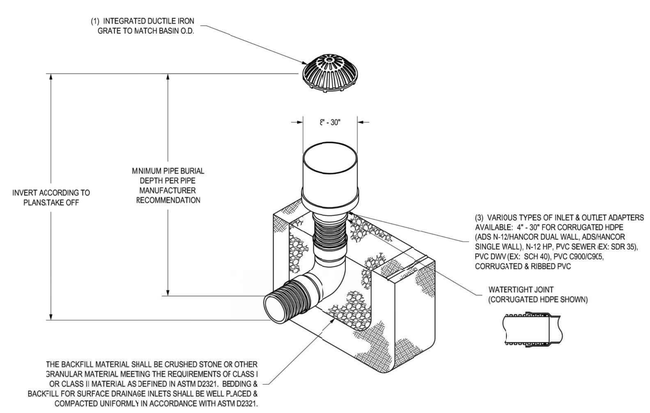
DRAWN BY	CJA	MATERIAL	
DATE	03-10-00		
REVISED BY	CCA	PROJECT NO./NAME	
DATE	09-09-13		
DWG SIZE	A	SCALE 1:1	SHEET 1 OF 1

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 8 IN - 30 IN INLINE DRAIN SPECIFICATIONS

DWG NO. 7003-110-009 REV G

NYLOPLAST INLINE DRAIN WITH DOME GRATE



1 - 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (8" - 24").
3 - 8" - 30" DOME GRATES HAVE NO LOAD RATING

DRAWN BY	EBC	MATERIAL	
DATE	03-25-10		
APPD BY	CCA	PROJECT NO./NAME	
DATE	09-27-13		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: INLINE DRAIN WITH DOME GRATE
QUICK SPEC INSTALLATION DETAIL

DWG NO. 7003-110-057 REV C

PEC
PROFESSIONAL ENGINEERING CONSULTANTS P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CHARLES E. BARNES
7581
08/04/2016
KANSAS
PROFESSIONAL ENGINEER

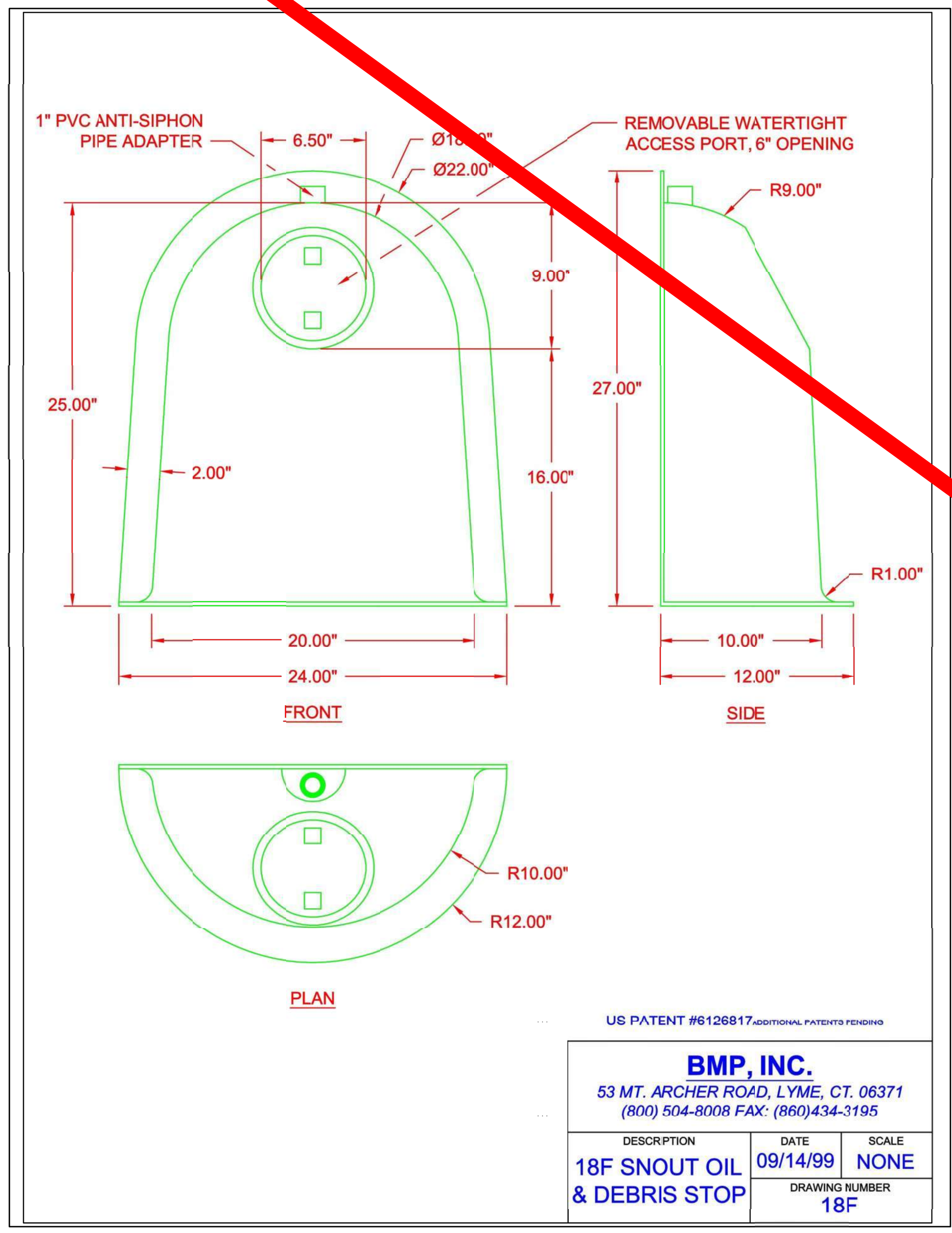
CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

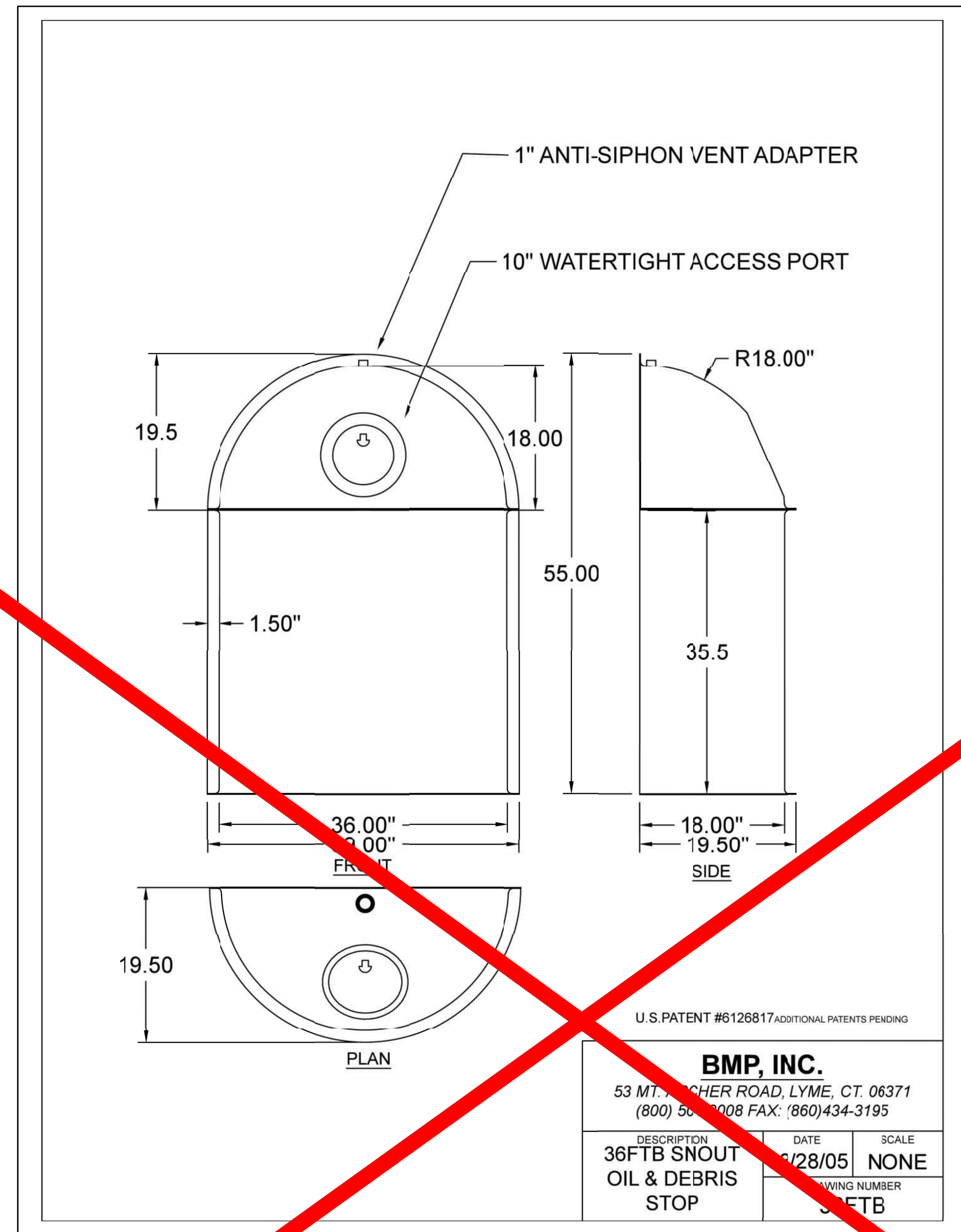
MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

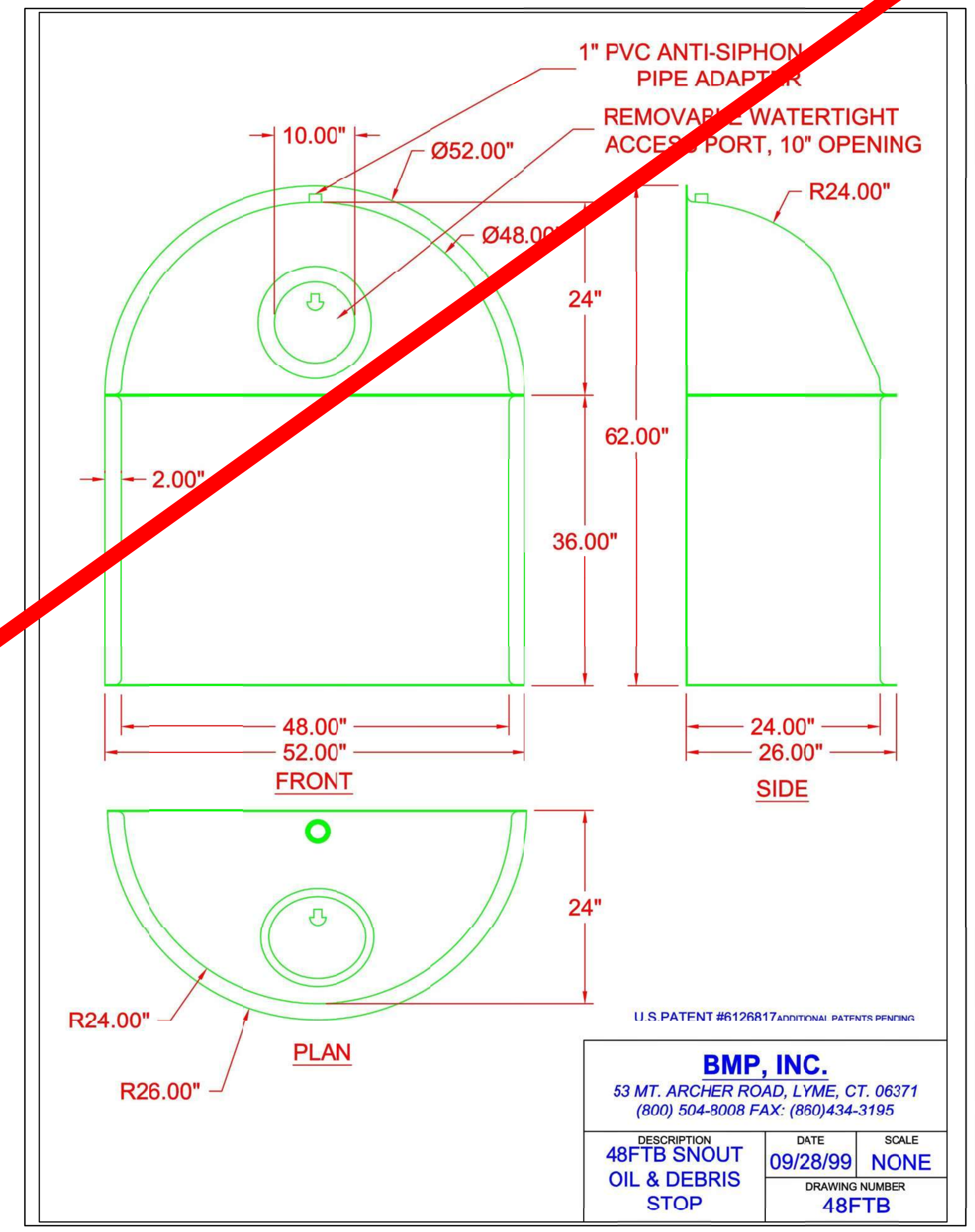
INLINE DRAIN DETAILS

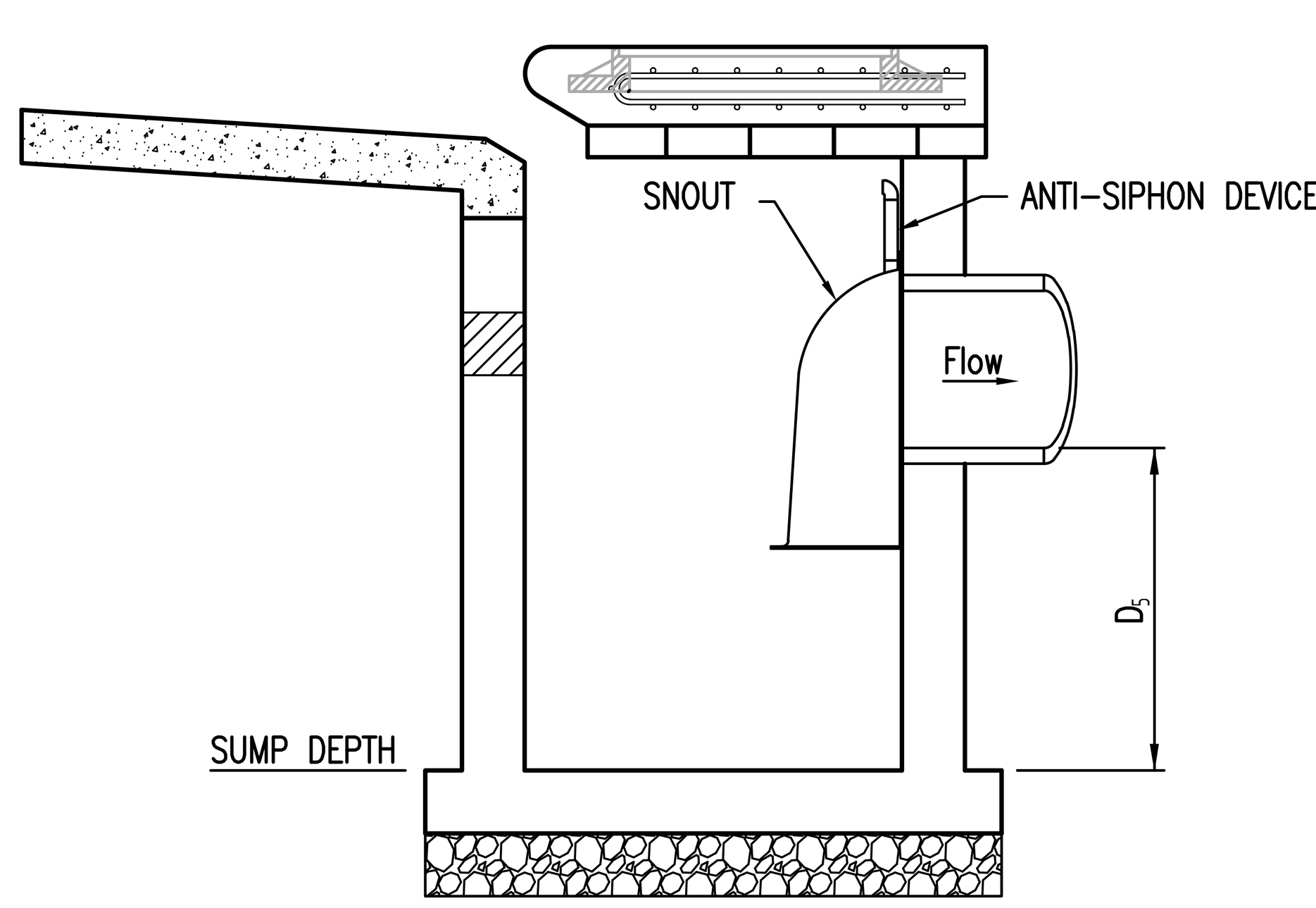
PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSI, CAE
CHK'D BY:

C4.13
SHEET OF









SUMP DEPTHS (D.)

18F	37.5"	MIN.
36FTB	48"	MIN.
48FTB	48"	MIN.

"SNOUT" OIL & DEBRIS STOP
FOR CURB INLET

SUMPS REMOVED SHEET DELETED

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

SNOUT OIL AND DEBRIS STOP DETAILS

PROJECT: 14016.000
DATE:
DRAWN BY:
CHK'D BY:

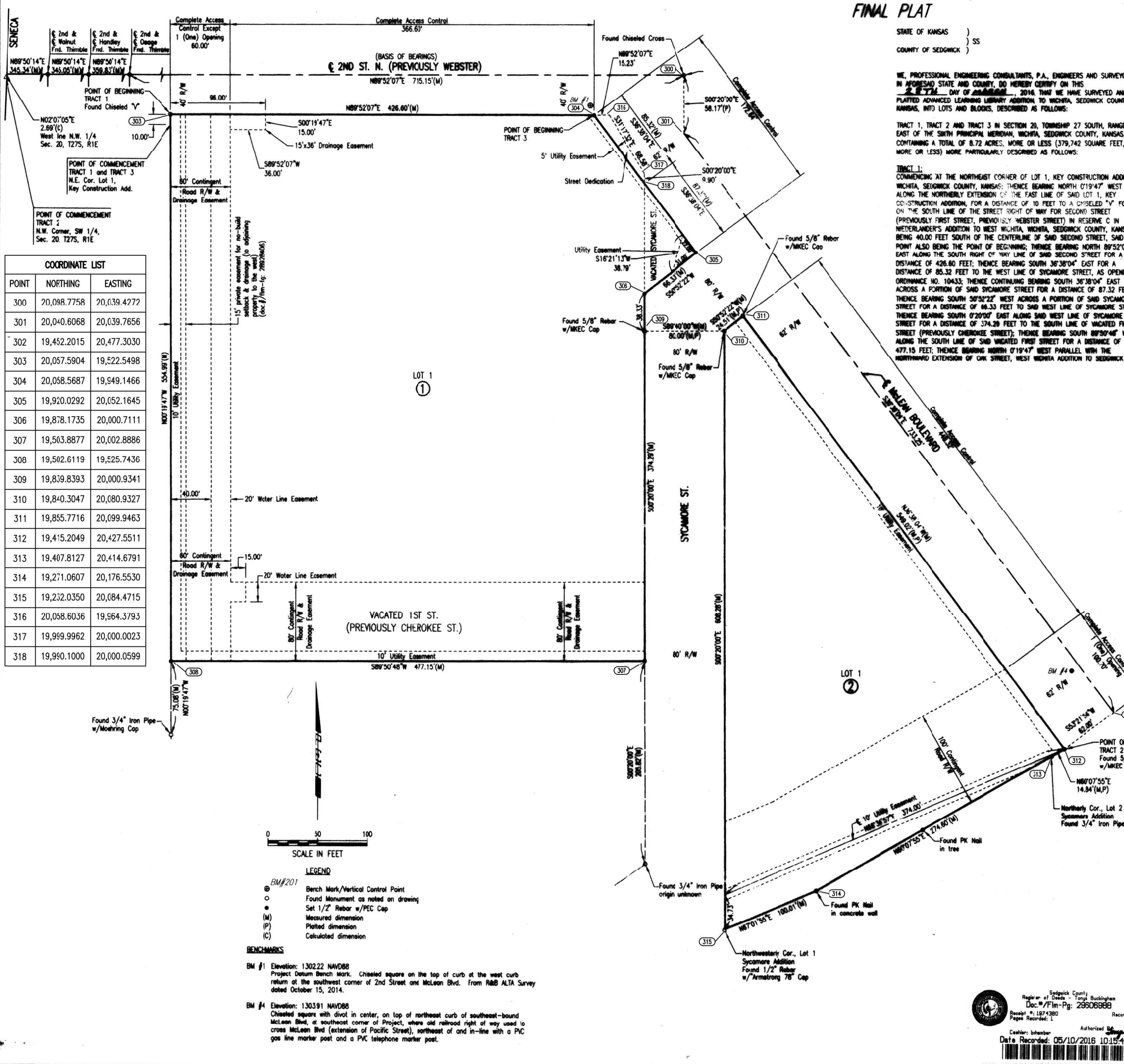
C4.14

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

ADVANCED LEARNING LIBRARY ADDITION

TO WICHITA, SEDGWICK COUNTY, KANSAS

FINAL PLAT



COORDINATE LIST		
POINT	NORTHING	EASTING
300	20,098.7758	20,039.4272
301	20,040.6068	20,039.7656
302	19,452.2015	20,477.3030
303	20,057.5904	19,522.5498
304	20,058.5687	19,949.1466
305	19,920.0292	20,052.1645
306	19,878.1735	20,000.7111
307	19,503.8877	20,002.8886
308	19,502.6119	19,525.7436
309	19,839.8393	20,000.9341
310	19,840.3047	20,080.9327
311	19,855.7716	20,099.9463
312	19,415.2049	20,427.5511
313	19,407.8127	20,414.6791
314	19,271.0607	20,176.5530
315	19,232.0350	20,084.4715
316	20,058.6036	19,964.3793
317	19,999.9962	20,000.0023
318	19,990.1000	20,000.0599

STATE OF KANSAS)
) SS
COUNTY OF SEDGWICK)

WE, PROFESSIONAL ENGINEERING CONSULTANTS, P.A., ENGINEERS AND SURVEYORS IN AFORESAID STATE AND COUNTY, DO HEREBY CERTIFY ON THIS 28TH DAY OF MARCH, 2016, THAT WE HAVE SURVEYED AND PLATTED ADVANCED LEARNING LIBRARY ADDITION, TO WICHITA, SEDGWICK COUNTY, KANSAS, INTO LOTS AND BLOCKS, DESCRIBED AS FOLLOWS:

TRACT 1, TRACT 2 AND TRACT 3 IN SECTION 20, TOWNSHIP 27 SOUTH, RANGE 1 EAST OF THE SIXTH PRINCIPAL MERIDIAN, WICHITA, SEDGWICK COUNTY, KANSAS, CONTAINING A TOTAL OF 8.72 ACRES, MORE OR LESS (379,742 SQUARE FEET, MORE OR LESS) MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TRACT 1:
COMMENCING AT THE NORTHEAST CORNER OF LOT 1, KEY CONSTRUCTION ADDITION, WICHITA, SEDGWICK COUNTY, KANSAS; THENCE BEARING NORTH 0°19'47" WEST ALONG THE NORTHERLY EXTENSION OF THE EAST LINE OF SAID LOT 1, KEY CONSTRUCTION ADDITION, FOR A DISTANCE OF 10 FEET TO A CHISELED "V" FOUND ON THE SOUTH LINE OF THE STREET RIGHT OF WAY FOR SECOND STREET (PREVIOUSLY FIRST STREET, PREVIOUSLY WEBSTER STREET) IN RESERVE C IN NIEDERLANDER'S ADDITION TO WEST WICHITA, WICHITA, SEDGWICK COUNTY, KANSAS, BEING 40.00 FEET SOUTH OF THE CENTERLINE OF SAID SECOND STREET, SAID POINT ALSO BEING THE POINT OF BEGINNING; THENCE BEARING NORTH 89°52'07" EAST ALONG THE SOUTH RIGHT OF WAY LINE OF SAID SECOND STREET FOR A DISTANCE OF 426.60 FEET; THENCE BEARING SOUTH 36°38'04" EAST FOR A DISTANCE OF 85.32 FEET TO THE WEST LINE OF SYCAMORE STREET, AS OPENED BY ORDINANCE NO. 10433; THENCE CONTINUING BEARING SOUTH 36°38'04" EAST ACROSS A PORTION OF SAID SYCAMORE STREET FOR A DISTANCE OF 87.32 FEET; THENCE BEARING SOUTH 50°52'22" WEST ACROSS A PORTION OF SAID SYCAMORE STREET FOR A DISTANCE OF 66.33 FEET TO SAID WEST LINE OF SYCAMORE STREET; THENCE BEARING SOUTH 0°20'00" EAST ALONG SAID WEST LINE OF SYCAMORE STREET FOR A DISTANCE OF 374.29 FEET TO THE SOUTH LINE OF VACATED FIRST STREET (PREVIOUSLY CHEROKEE STREET); THENCE BEARING SOUTH 89°50'46" WEST ALONG THE SOUTH LINE OF SAID VACATED FIRST STREET FOR A DISTANCE OF 477.15 FEET; THENCE BEARING NORTH 0°19'47" WEST PARALLEL WITH THE NORTHWARD EXTENSION OF OAK STREET, WEST WICHITA ADDITION TO SEDGWICK COUNTY, KANSAS, FOR A DISTANCE OF 554.99 FEET TO THE POINT OF BEGINNING; SAID TRACT 1 CONTAINING 6.10 ACRES, MORE OR LESS (265,918 SQUARE FEET, MORE OR LESS).

TRACT 2:
A PORTION OF RESERVE B, WEST WICHITA ADDITION, WICHITA, SEDGWICK COUNTY, KANSAS, AND THE SOUTH HALF OF VACATED FIRST STREET (PREVIOUSLY CHEROKEE STREET) ADJOINING ON THE NORTH, TOGETHER WITH A PORTION OF RESERVE C, NIEDERLANDER'S ADDITION TO WEST WICHITA, WICHITA, SEDGWICK COUNTY, KANSAS, AND THE NORTH HALF OF VACATED FIRST STREET (PREVIOUSLY CHEROKEE STREET) ADJOINING ON THE SOUTH, SAID PORTIONS LYING EAST OF SYCAMORE STREET, LYING SOUTHWEST OF RIVER VISTA VILLAGE, AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS, AND LYING NORTH OF SYCAMORE ADDITION TO WICHITA, KANSAS, SAID PORTIONS MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 27 SOUTH, RANGE 1 EAST OF THE SIXTH PRINCIPAL MERIDIAN, WICHITA, SEDGWICK COUNTY, KANSAS; THENCE NORTH 2°07'05" EAST ALONG THE WEST LINE OF THE NORTHWEST QUARTER OF SAID SECTION 20 FOR A DISTANCE OF 2.69 FEET TO THE CENTERLINE OF SECOND STREET (PREVIOUSLY FIRST STREET, PREVIOUSLY WEBSTER STREET); THENCE BEARING NORTH 89°50'14" EAST ALONG SAID CENTERLINE OF SECOND STREET FOR A DISTANCE OF 345.34 FEET TO A THIMBLE AT THE CENTERLINE OF WALNUT STREET; THENCE CONTINUING BEARING NORTH 89°50'14" EAST ALONG SAID CENTERLINE OF SECOND STREET FOR A DISTANCE OF 345.05 FEET TO A THIMBLE AT THE CENTERLINE OF HANDLEY STREET; THENCE CONTINUING BEARING NORTH 89°50'14" EAST ALONG SAID CENTERLINE OF SECOND STREET FOR A DISTANCE OF 359.83 FEET TO A THIMBLE AT THE CENTERLINE OF OSAGE STREET; THENCE BEARING NORTH 89°52'07" EAST ALONG SAID CENTERLINE OF SECOND STREET FOR A DISTANCE OF 715.15 FEET TO A CHISELED CROSS FOR THE CENTERLINE OF SYCAMORE STREET; THENCE BEARING SOUTH 0°20'00" EAST FOR A DISTANCE OF 58.17 FEET TO THE CENTERLINE OF THE RIGHT OF WAY FOR MCLEAN BOULEVARD AS PLATTED IN SAID RIVER VISTA VILLAGE; THENCE BEARING SOUTH 36°38'04" EAST ALONG SAID PLATTED CENTERLINE OF MCLEAN BOULEVARD FOR A DISTANCE OF 733.25 FEET; THENCE BEARING SOUTH 53°21'56" WEST FOR A DISTANCE OF 62.00 FEET TO THE POINT OF BEGINNING, BEING ON THE SOUTHWESTERLY LINE OF THE STREET RIGHT OF WAY FOR MCLEAN BOULEVARD AS PLATTED IN SAID RIVER VISTA VILLAGE; THENCE BEARING NORTH 36°38'04" WEST ALONG THE SOUTHWESTERLY LINE OF THE STREET RIGHT OF WAY FOR MCLEAN BOULEVARD AS PLATTED IN SAID RIVER VISTA VILLAGE FOR A DISTANCE OF 549.02 FEET; THENCE BEARING SOUTH 50°52'22" WEST FOR A DISTANCE OF 24.51 FEET TO THE EAST LINE OF THE 80-FOOT WIDE STREET RIGHT OF WAY FOR SYCAMORE STREET; THENCE BEARING SOUTH 0°20'00" EAST ALONG EAST LINE OF SAID SYCAMORE STREET FOR A DISTANCE OF 608.28 FEET TO THE NORTHWESTERLY CORNER OF LOT 1, SYCAMORE ADDITION TO WICHITA, KANSAS; THENCE BEARING NORTH 67°01'55" EAST ALONG THE NORTHWESTERLY LINE OF SAID LOT 1, SYCAMORE ADDITION FOR A DISTANCE OF 100.01 FEET TO A DEFLECTION IN SAID NORTHWESTERLY LINE OF SAID LOT 1, SYCAMORE ADDITION; THENCE BEARING NORTH 60°07'55" EAST ALONG THE NORTHWESTERLY LINES OF LOTS 1 AND 2 IN SAID SYCAMORE ADDITION FOR A DISTANCE OF 274.60 FEET TO THE NORTHERLY CORNER OF SAID LOT 2, SYCAMORE ADDITION, BEING A DEFLECTION IN THE SOUTHWESTERLY RIGHT OF WAY LINE OF MCLEAN BOULEVARD AS PLATTED IN SAID RIVER VISTA VILLAGE; THENCE CONTINUING BEARING NORTH 60°07'55" EAST ALONG SAID RIGHT OF WAY LINE OF MCLEAN BOULEVARD FOR A DISTANCE OF 14.84 FEET TO THE POINT OF BEGINNING; SAID TRACT 2 CONTAINING 2.60 ACRES, MORE OR LESS (113,127 SQUARE FEET, MORE OR LESS).

TRACT 3:
COMMENCING AT THE NORTHEAST CORNER OF LOT 1, KEY CONSTRUCTION ADDITION, WICHITA, SEDGWICK COUNTY, KANSAS; THENCE BEARING NORTH 0°19'47" WEST ALONG THE NORTHERLY EXTENSION OF THE EAST LINE OF SAID LOT 1, KEY CONSTRUCTION ADDITION, FOR A DISTANCE OF 10 FEET TO A CHISELED "V" FOUND ON THE SOUTH LINE OF THE STREET RIGHT OF WAY FOR SECOND STREET (PREVIOUSLY FIRST STREET, PREVIOUSLY WEBSTER STREET) IN RESERVE C IN NIEDERLANDER'S ADDITION TO WEST WICHITA, WICHITA, SEDGWICK COUNTY, KANSAS, BEING 40.00 FEET SOUTH OF THE CENTERLINE OF SAID SECOND STREET; THENCE BEARING NORTH 89°52'07" EAST ALONG THE SOUTH RIGHT OF WAY LINE OF SAID SECOND STREET FOR A DISTANCE OF 426.60 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING BEARING NORTH 89°52'07" EAST ALONG THE SOUTH RIGHT OF WAY LINE OF SAID SECOND STREET FOR A DISTANCE OF 15.23 FEET TO A POINT 25 FEET SOUTHWEST OF THE CENTER LINE OF THE MAIN TRACK OF THE MIDLAND VALLEY RAILROAD, NOW ABANDONED, ALSO BEING A POINT ON THE SOUTHWEST RIGHT OF WAY LINE OF MCLEAN BOULEVARD, AS PLATTED IN RIVER VISTA VILLAGE, AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS; THENCE BEARING SOUTH 31°17'32" EAST ALONG THE SOUTHWEST RIGHT OF WAY LINE OF MCLEAN BOULEVARD, AS PLATTED IN SAID RIVER VISTA VILLAGE AND ALONG A LINE 25 FEET SOUTHWEST OF AND PARALLEL WITH SAID ABANDONED MIDLAND VALLEY RAILROAD FOR A DISTANCE OF 68.58 FEET TO THE WEST LINE OF SYCAMORE STREET, AS OPENED BY ORDINANCE NO. 10433; THENCE BEARING SOUTH 0°20'00" EAST ALONG SAID WEST LINE OF SYCAMORE STREET FOR A DISTANCE OF 9.90 FEET TO THE NORTHEAST LINE OF TRACT 1; THENCE BEARING NORTH 36°38'04" WEST ALONG THE NORTHEAST LINE OF TRACT 1 FOR A DISTANCE OF 85.32 FEET TO THE POINT OF BEGINNING; SAID TRACT 3 CONTAINING 0.016 ACRE, MORE OR LESS (697 SQUARE FEET, MORE OR LESS).

ERNEST CANTU JR., P.S.#1407
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

ALL PUBLIC EASEMENTS LYING WITHIN ABOVE DESCRIBED TRACT OF LAND ARE HEREBY VACATED AND REPLATTED BY VIRTUE OF K.S.A. 12-512b, AS AMENDED.

DRAINAGE EASEMENTS AS SHOWN FOR THE CONSTRUCTION AND MAINTENANCE OF STORM WATER UTILITIES ARE HEREBY GRANTED.

WATER LINE EASEMENTS AS SHOWN FOR THE CONSTRUCTION AND MAINTENANCE OF WATER UTILITIES ARE HEREBY GRANTED.

UTILITY EASEMENTS AS SHOWN FOR THE CONSTRUCTION AND MAINTENANCE OF PUBLIC UTILITIES ARE HEREBY GRANTED. NO SIGNS, LIGHT POLES, PRIVATE DRAINAGE SYSTEMS, MASONRY TRASH ENCLOSURES OR OTHER STRUCTURES SHALL BE LOCATED WITHIN PUBLIC UTILITY EASEMENTS.

THE STREET IS HEREBY DEDICATED TO AND FOR THE USE OF THE PUBLIC.

THE CONTINGENT STREET DEDICATIONS SHALL BECOME EFFECTIVE IN THE EVENT THAT THE CITY DETERMINES A NEED FOR THE RIGHT-OF-WAY FOR ANY STREET-RELATED PURPOSES.

ALL ABUTTERS' RIGHT OF ACCESS TO AND FROM 2ND STREET AND MCLEAN BOULEVARD ARE HEREBY GRANTED TO THE APPROPRIATE GOVERNING BODY; PROVIDED HOWEVER THAT LOT 1, BLOCK 1, SHALL HAVE ACCESS TO 2ND STREET AT ONE (1) LOCATION AND THAT LOT 1, BLOCK 2 SHALL HAVE ACCESS TO MCLEAN BOULEVARD AT ONE (1) LOCATION AS SHOWN.

FEMA FLOODPLAIN AND REGULATORY FLOODWAY BOUNDARIES ARE SUBJECT TO PERIODIC CHANGE, AND SUCH CHANGE MAY AFFECT THE INTENDED LAND USE WITHIN THE SUBDIVISION.

A DRAINAGE PLAN HAS BEEN APPROVED FOR THIS PLAT. ALL DRAINAGE EASEMENTS, RIGHTS-OF-WAY, OR RESERVES SHALL REMAIN AT ESTABLISHED GRADES AND UNOBSTRUCTED TO ALLOW FOR THE CONVEYANCE OF STORMWATER, UNLESS MODIFIED WITH THE APPROVAL OF THE CITY ENGINEER.

KNOW ALL MEN BY THESE PRESENTS THAT WE, THE UNDERSIGNED PROPERTY OWNERS OF THE LAND AS ABOVE SET FORTH IN THE SURVEYOR'S CERTIFICATE, HAVE CAUSED THE LAND TO BE SURVEYED AND PLATTED INTO LOTS AND BLOCKS, THE SAME TO BE KNOWN AS ADVANCED LEARNING LIBRARY ADDITION, TO WICHITA, SEDGWICK COUNTY, KANSAS.

OWNER: CITY OF WICHITA, KANSAS, A MUNICIPAL CORPORATION

JEFF LONGWELL, MAYOR

STATE OF KANSAS)
) SS
COUNTY OF SEDGWICK)

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS 20 DAY OF April, 2016, BY JEFF LONGWELL, MAYOR OF THE CITY OF WICHITA, KANSAS, A MUNICIPAL CORPORATION.

JANIS EDWARDS, NOTARY PUBLIC
MY APPOINTMENT EXPIRES 12-19-18

THIS PLAT OF ADVANCED LEARNING LIBRARY ADDITION HAS BEEN SUBMITTED TO AND APPROVED BY THE WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION, WICHITA, KANSAS APPROVED THE 19th DAY OF NOVEMBER, ~~2016~~ 2015

CAROL CHAPMAN NEUGENT

DALE MILLER, SECRETARY

REVIEWED IN ACCORDANCE WITH K.S.A. 58-2005 ON THIS 30th DAY OF March, 2016.

TRICIA L. ROBELLO, LS #1246
DEPUTY COUNTY SURVEYOR
SEDGWICK COUNTY KANSAS

THIS PLAT IS APPROVED AND ALL DEDICATIONS SHOWN HEREON ACCEPTED BY THE CITY COUNCIL OF THE CITY OF WICHITA, KANSAS, THIS 19 DAY OF April, 2016.

JEFF LONGWELL, MAYOR

KAREN SUBLETT, CITY CLERK

ENTERED ON TRANSFER RECORD THIS 10th DAY OF May, 2016.

KELLY ARNOLD, COUNTY CLERK

THIS IS TO CERTIFY THAT THIS INSTRUMENT WAS FILED FOR RECORD IN THE REGISTER OF DEEDS OFFICE AT 10:15:49 A.M., ON THE 10th DAY OF May, 2016.

TONYA BUCKINGHAM, REGISTER OF DEEDS

JUDY J. PAGET, DEPUTY

PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

PC 257-2

RFI NO. 4
ENTIRE SHEET

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

PLAT

PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY:

C2.3

SHEET OF

PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

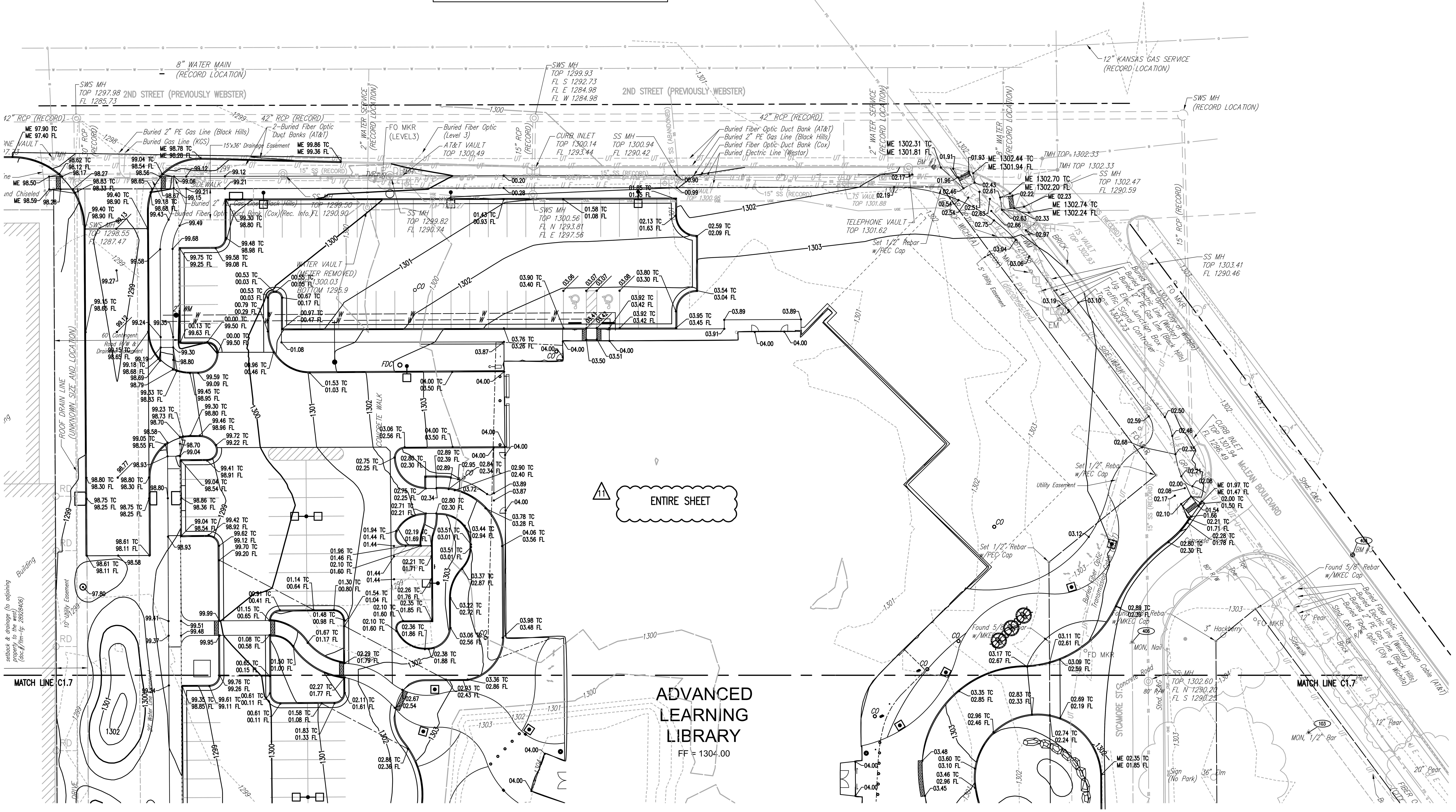
NOTES

1. ELEVATION DATUM = NAVD88
2. REFERENCE SHEETS C1.2 & C1.3 UTILITY PLAN. ADJUST MANHOLE AND VALVE COVER TOPS TO BE FLUSH WITH FINISHED GRADE.
3. ADA ACCESSIBLE PARKING STALL & ACCESS AISLE SHALL NOT EXCEED 2% IN ALL DIRECTIONS. MAXIMUM LONGITUDINAL SLOPES ON SIDEWALKS IS 5%. 2% MAXIMUM CROSS SLOPES ON SIDEWALKS. CONTRACTOR SHALL ADHERE TO THE LATEST ADA REGULATIONS AND REPORT ANY TO THE ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION.
4. REFERENCE ARCHITECTURAL PLANS FOR DOOR THRESHOLD DETAILS. ELEVATIONS SHOWN ON THIS DRAWING ARE TO FINISHED FLOOR.
5. REFERENCE THE PAVING PLAN FOR BOLLARDS, SHEET C1.9.
6. REFERENCE SHEET C6.1 FOR EROSION CONTROL.
7. REFERENCE THE GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION PROCEDURES.
8. GRADE DIRT TO 1 1/2" BELOW CURBS AND PAVEMENT WHERE SOD IS TO BE PLACED.

LEGEND

25.00	= SPOT ELEVATION
ME 25.00	= MATCH EXISTING ELEVATION
TC	= TOP OF CURB ELEVATION
FL	= FLOWLINE ELEVATION
HP	= HIGH POINT
1137.3	= EXISTING SPOT ELEVATIONS
— —1137— — —	= EXISTING MINOR CONTOUR LINE AND ELEV.
- - - -1140- - - -	= EXISTING MAJOR CONTOUR LINE AND ELEV.
——1137——	= PROPOSED MINOR CONTOUR LINE AND ELEV.
——1140——	= PROPOSED MAJOR CONTOUR LINE AND ELEV.
—— - ——	= BREAKLINE
	Site Benchmark:

ADD 1300 TO SPOT ELEVATIONS = MSL NAV88



0 20 40
SCALE IN FEET

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

GRADING PLAN NORTH

PROJECT NO:	14016.000
DATE:	12/23/15
DRAWN BY:	CSL,CAE
CHK'D BY:	MDK

C1.6

SHEET OF

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

NOTES

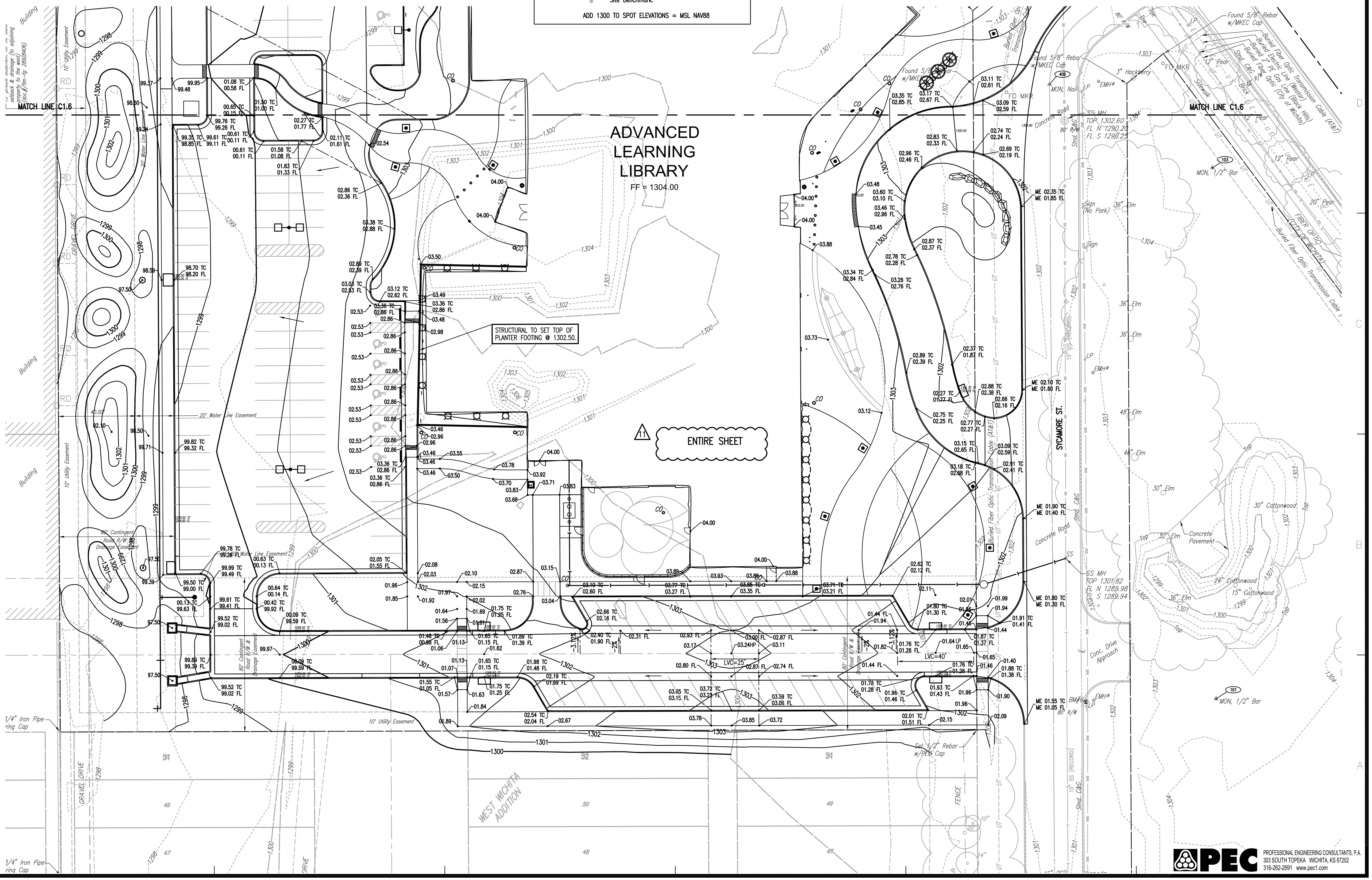
1. ELEVATION DATUM = NAVS88
2. REFERENCE SHEETS C1.2 & C1.3 UTILITY PLAN. ADJUST MANHOLE AND VALVE COVER TOPS TO BE FLUSH WITH FINISHED GRADE.
3. ADA ACCESSIBLE PARKING STALL & ACCESS AISLE SHALL NOT EXCEED 2% IN ALL DIRECTIONS. MAXIMUM LONGITUDINAL SLOPES ON SIDEWALKS IS 5%. 2% MAXIMUM CROSS SLOPES ON SIDEWALKS. CONTRACTOR SHALL ADHERE TO THE LATEST ADA REGULATIONS AND REPORT ANY TO THE ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION.
4. REFERENCE ARCHITECTURAL PLANS FOR DOOR THRESHOLD DETAILS. ELEVATIONS SHOWN ON THIS DRAWING ARE TO FINISHED FLOOR.
5. REFERENCE THE PAVING PLAN FOR BOLLARDS, SHEET C1.9.
6. REFERENCE SHEET C6.1 FOR EROSION CONTROL.
7. REFERENCE THE GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION PROCEDURES.
8. GRADE DIRT TO 1 1/2" BELOW CURBS AND PAVEMENT WHERE SOD IS TO BE PLACED.

LEGEND

- 25.00 = SPOT ELEVATION
- ME 25.00 = MATCH EXISTING ELEVATION
- TC = TOP OF CURB ELEVATION
- FL = FLOWLINE ELEVATION
- HP = HIGH POINT
- LP = LOW POINT
- 1137.3 = EXISTING SPOT ELEVATIONS
- 1137 = EXISTING MINOR CONTOUR LINE AND ELEV.
- 1140 = EXISTING MAJOR CONTOUR LINE AND ELEV.
- 1137 = PROPOSED MINOR CONTOUR LINE AND ELEV.
- 1140 = PROPOSED MAJOR CONTOUR LINE AND ELEV.
- = BREAKLINE
- Site Benchmark:

ADD 1300 TO SPOT ELEVATIONS = MSL NAV88

SCALE IN FEET 0 20 40



GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CHARLES S. BROWN LICENSED 7581 08/04/2016 KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

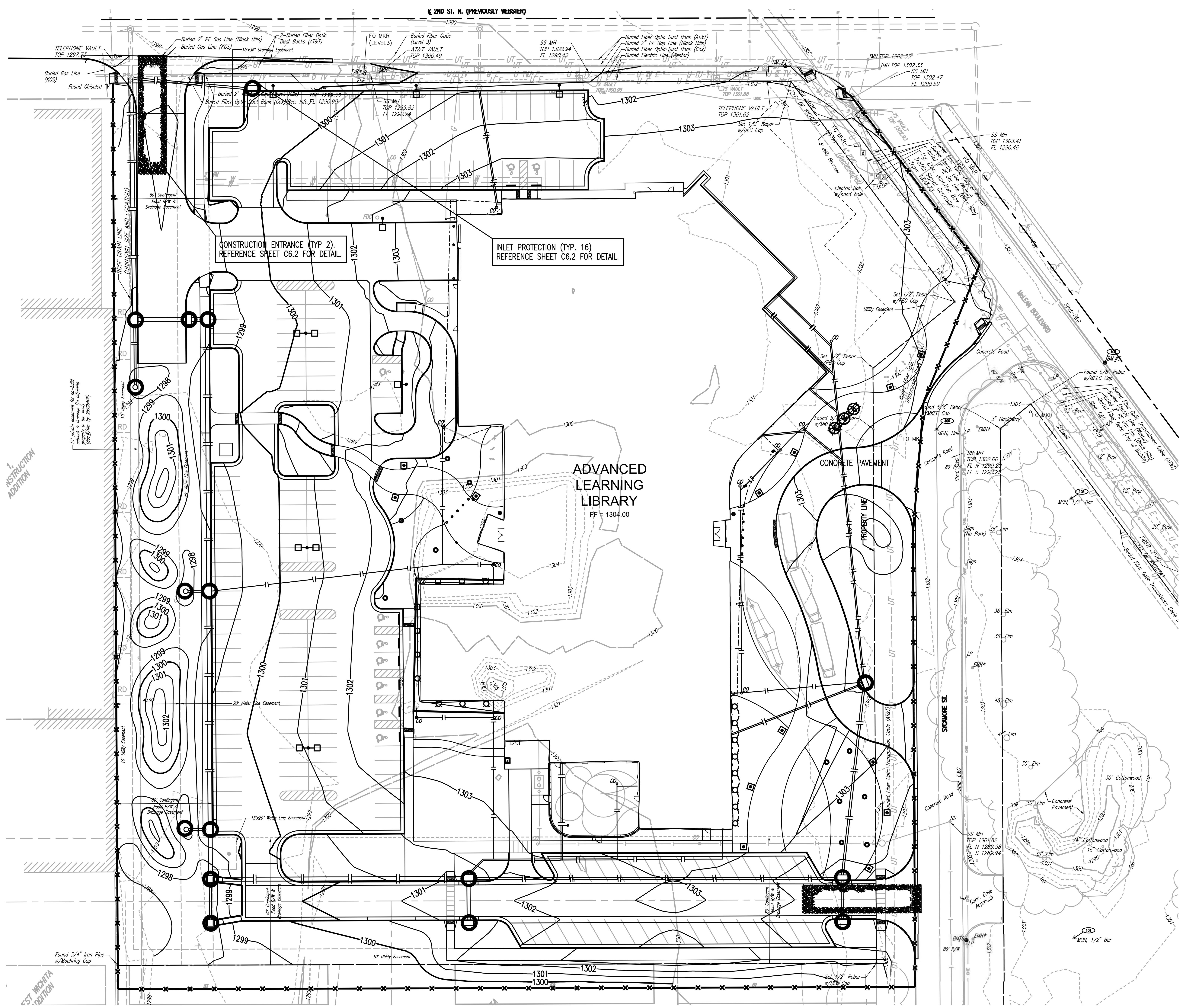
GRADING PLAN SOUTH

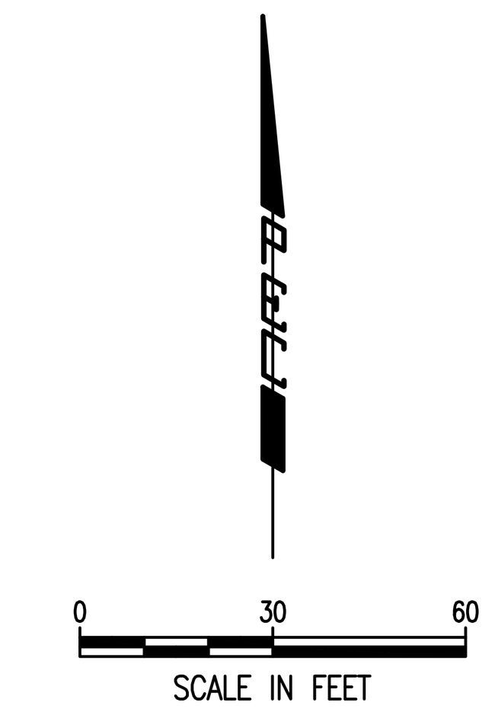
PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY: MDK

C1.7

SHEET OF

PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com





LEGEND

- PROPOSED CURB INLET PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE (FINAL LOCATION DETERMINED BY CONTRACTOR)
- SILT FENCE BARRIERS

NOTES

1. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED MINIMUM STANDARDS. WHENEVER SEDIMENT ENTERS STREETS, STORM SEWERS, DITCHES, OR PONDS, THE CONTRACTOR WILL INSTALL ADDITIONAL DEVICES AS NEEDED TO CORRECT THE PROBLEM.

2. THE EROSION CONTROL DEVICES SHOWN HEREON MUST BE IN PLACE AT ALL TIMES DURING CONSTRUCTION UNTIL SUCH TIME AS THE SITE IS REESTABLISHED WITH PAVING OR GRASS. THE CONTRACTOR SHALL INSTALL TEMPORARY OR PERMANENT SEED IN ACCORDANCE WITH ATTACHMENT "A" OF THE KDHE NOTICE OF INTENT PERMIT.

3. THE CONTRACTOR SHALL CLEAN UP ANY MUD INADVERTENTLY TRACKED ONTO ANY STREET AT THE END OF EACH DAY'S WORK.

4. THE EROSION CONTROL PLAN IS CONSIDERED A DYNAMIC PLAN. THE CONTRACTOR MAY MAKE CHANGES AS NECESSARY TO MEET PERMIT REQUIREMENTS. ANY CHANGES OR DELETION SHALL BE RECORDED AND KEPT ON SITE AT ALL TIMES.

5. ANY FINES IMPOSED UPON THE OWNER BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT (KDHE) DUE TO IMPROPER EROSION CONTROL PRACTICES SHALL BE REIMBURSED BY THE CONTRACTOR.

6. CONTAMINATED SOILS SHALL BE IMMEDIATELY PLACED IN TRUCKS FOR HAULING OFF SITE. NO CONTAMINATED SOILS SHALL BE STOCKPILED ON SITE. EROSION CONTROL MEASURES TO AVOID THE DISCHARGE OF CONTAMINANTS SHALL BE IN ACCORDANCE WITH THE GENERAL NPDES PERMIT PART 7.

PROJECT DISTURBED AREA = 6.8 ACRES.

INSPECTION AND MAINTENANCE:

SILT FENCE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE.

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CHARLES S. BROWN · LICENSED · 7581 · 08/04/2016 · KANSAS · PROFESSIONAL ENGINEER

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

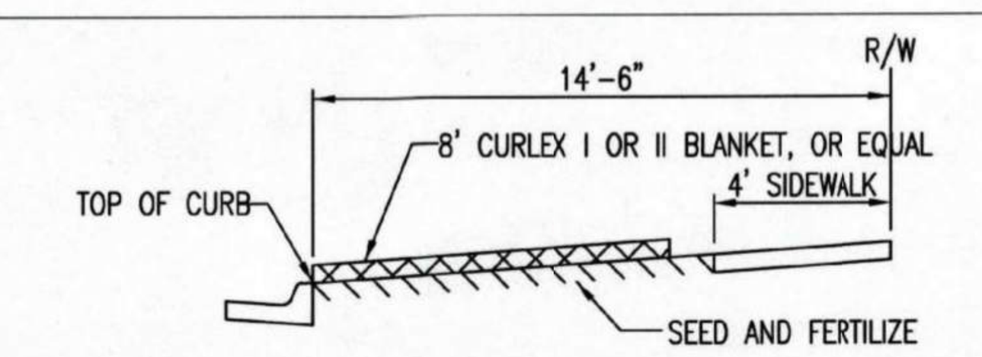
EROSION CONTROL PLAN

PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY: MDK
SHEET C6.1 OF

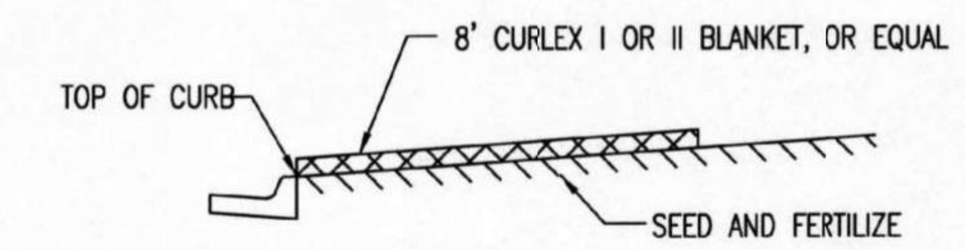
PEC
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

Saved 06-24-2016 10:58:44 AM by CAE
Plot Scale 1:1 08-03-2016 2:17:11 PM by CAE
U:\Wichita-Facil\2013\13493\001\Muni\Drawings\13493-001-C6.1 EROSION CONTROL PLAN

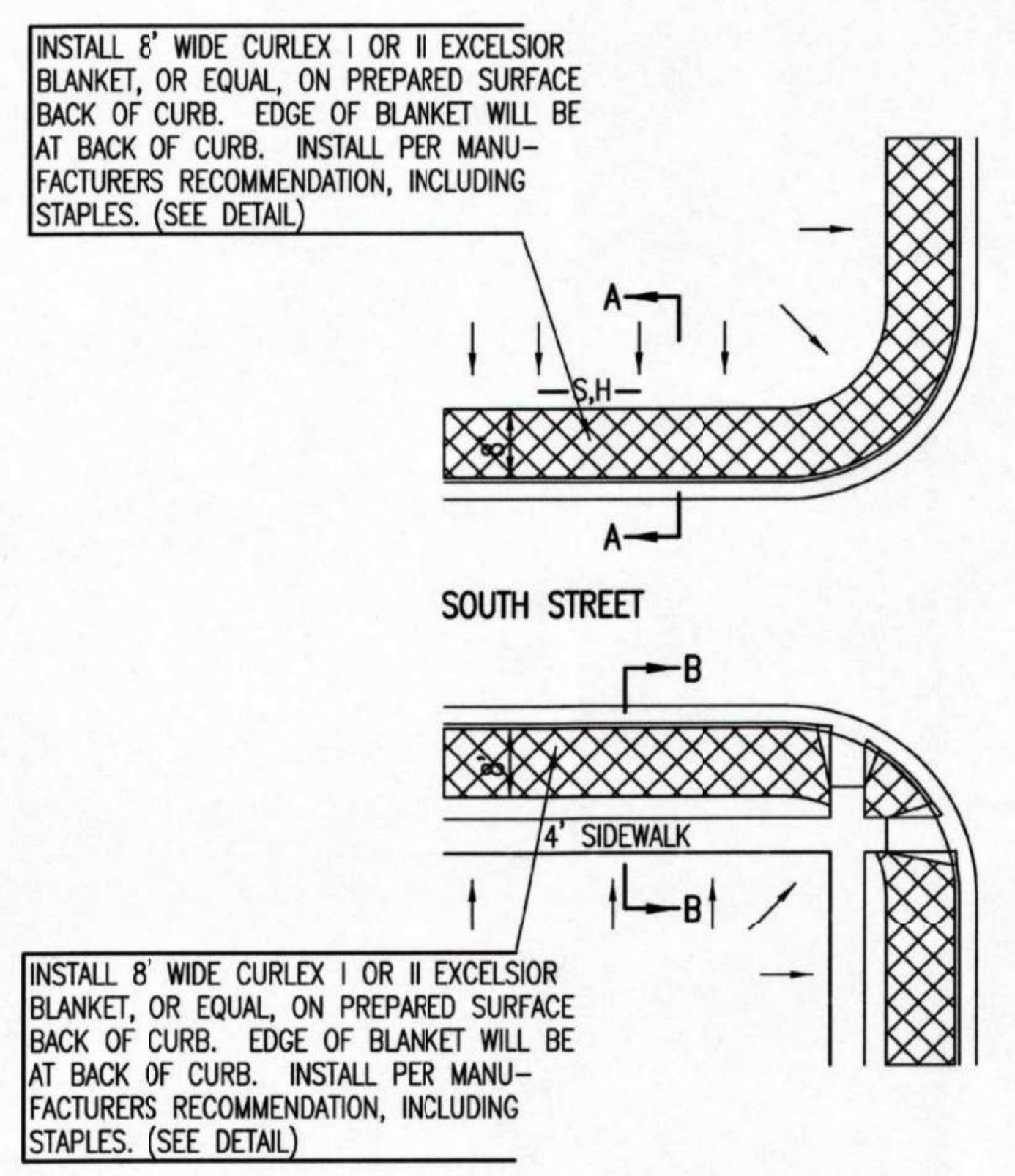
GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com



SECTION B-B



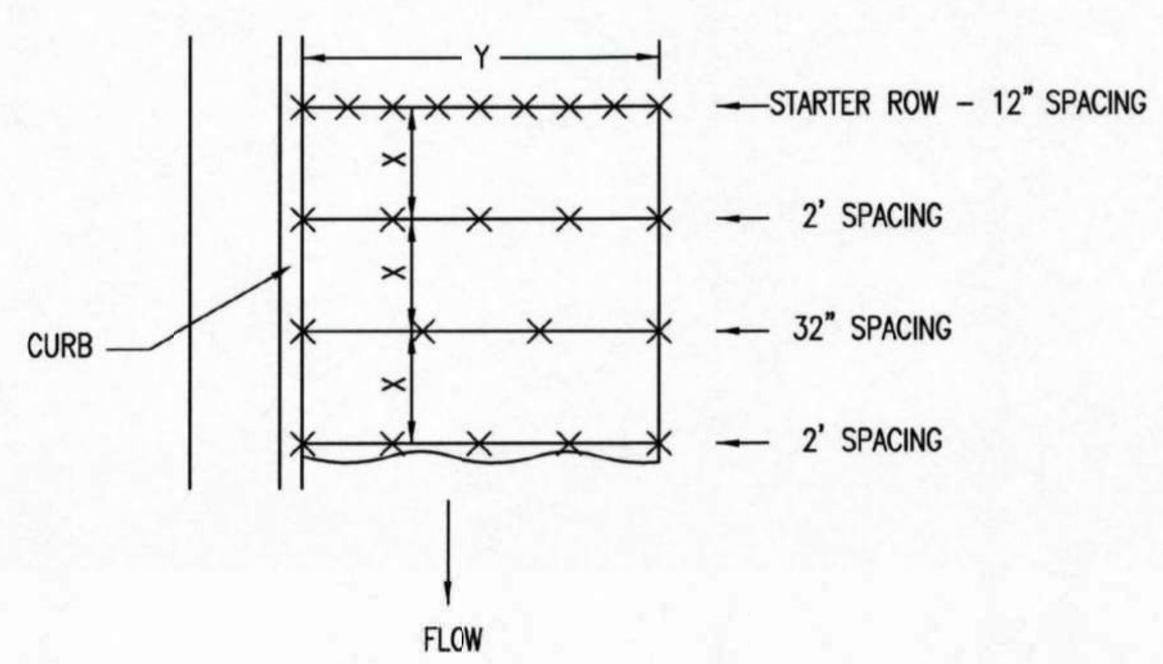
SECTION A-A



GENERAL NOTES

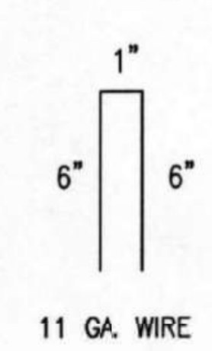
1. EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
2. EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
3. AFTER INSTALLATION OF EXCELSIOR BLANKET, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE GUTTER, SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS NEEDED, TO FIX THE PROBLEM.

BACK OF CURB PROTECTION DETAIL



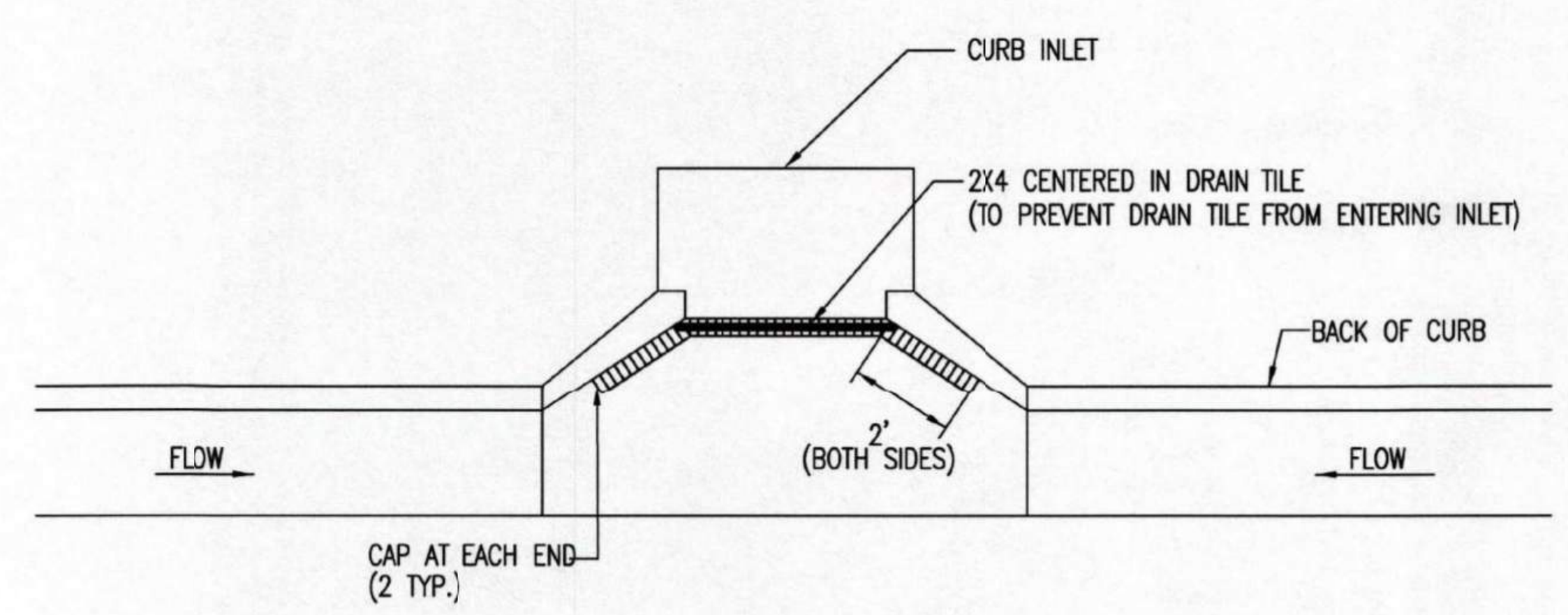
STAPLE PATTERN

NOTES: USE 6' SEAM OVERLAP
(X & Y = RECOMMENDED BY MANUFACTURE)



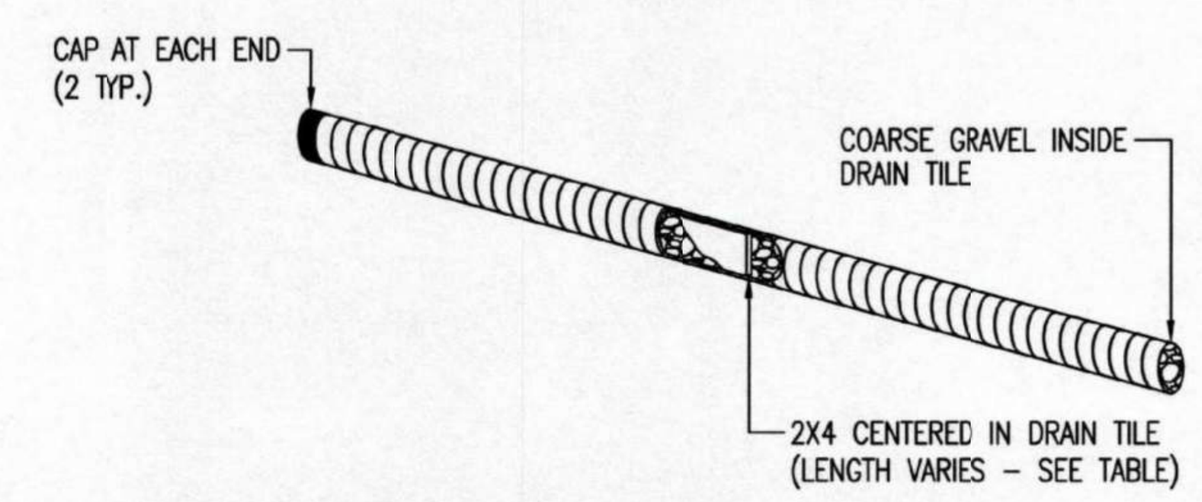
STAPLE

DETAILS FOR APPROVED EROSION CONTROL MAT



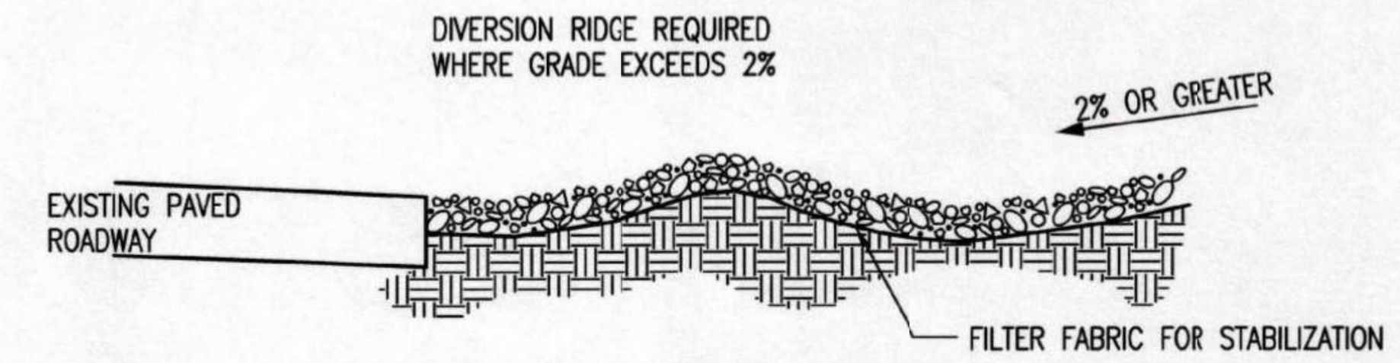
NOTE:
PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"

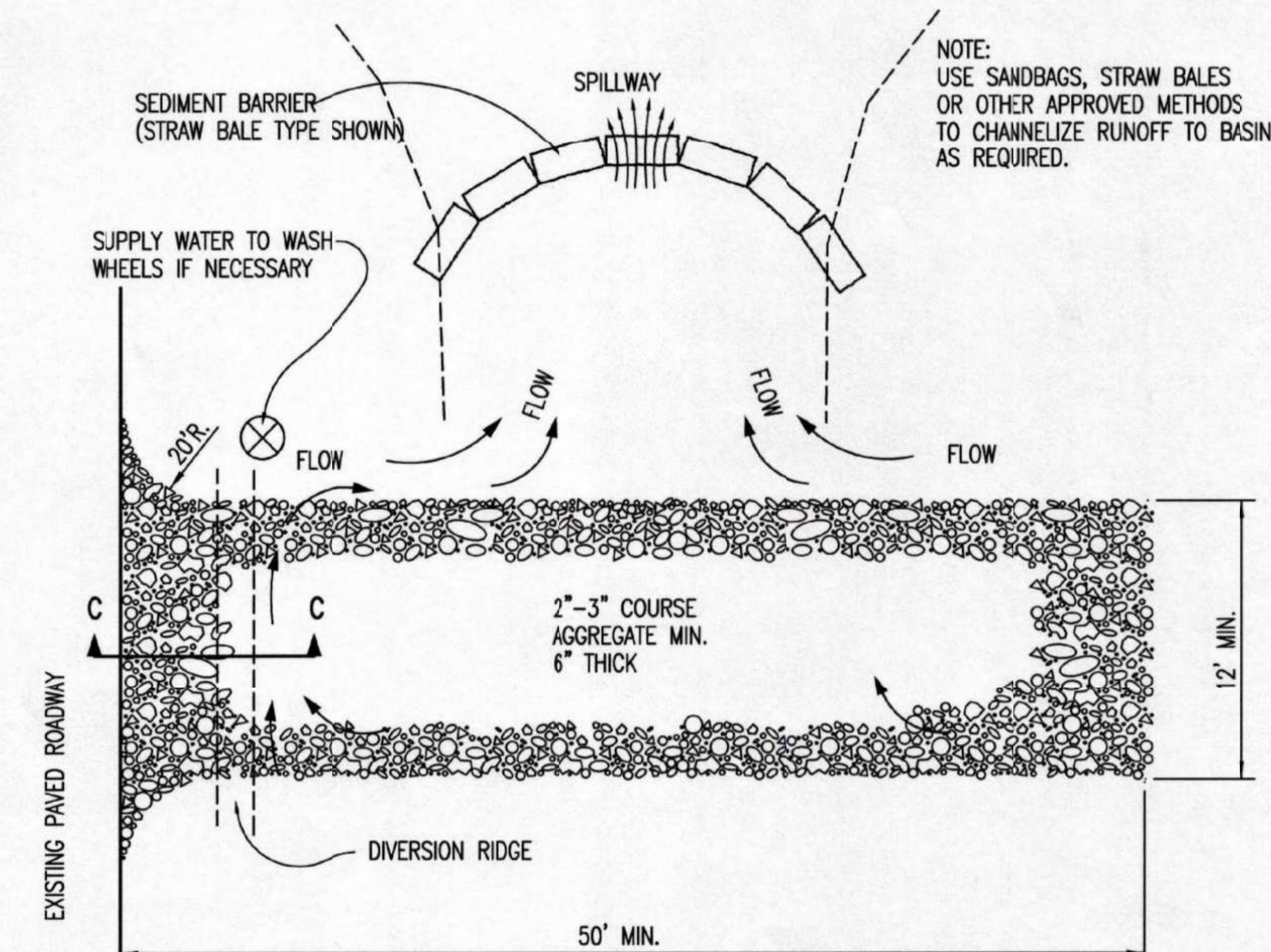


CURB INLET PROTECTION

4" PERFORATED PIPE W/ GRAVEL



SECTION C-C



STABILIZED CONSTRUCTION ENTRANCE

GENERAL NOTES

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
4. DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

REVISION DATE: MAY 2013

GARY L. JANZEN LICENSED 16294 KANSAS PROFESSIONAL ENGINEER
05/30/13

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

BACK OF CURB PROTECTION, CURB INLET PROTECTION AND CONSTRUCTION ENTRANCE

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET

SW-501

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

EROSION CONTROL DETAILS

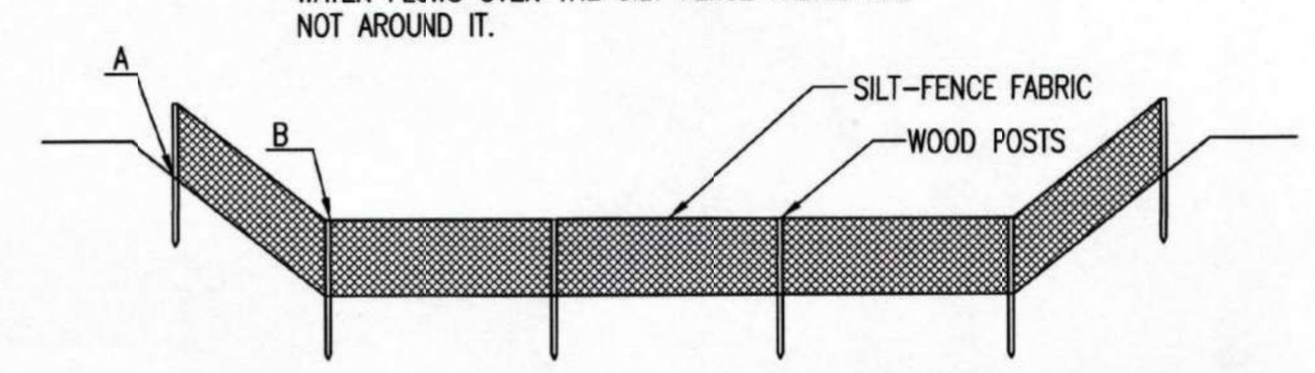
PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY:

C6.2

SHEET OF

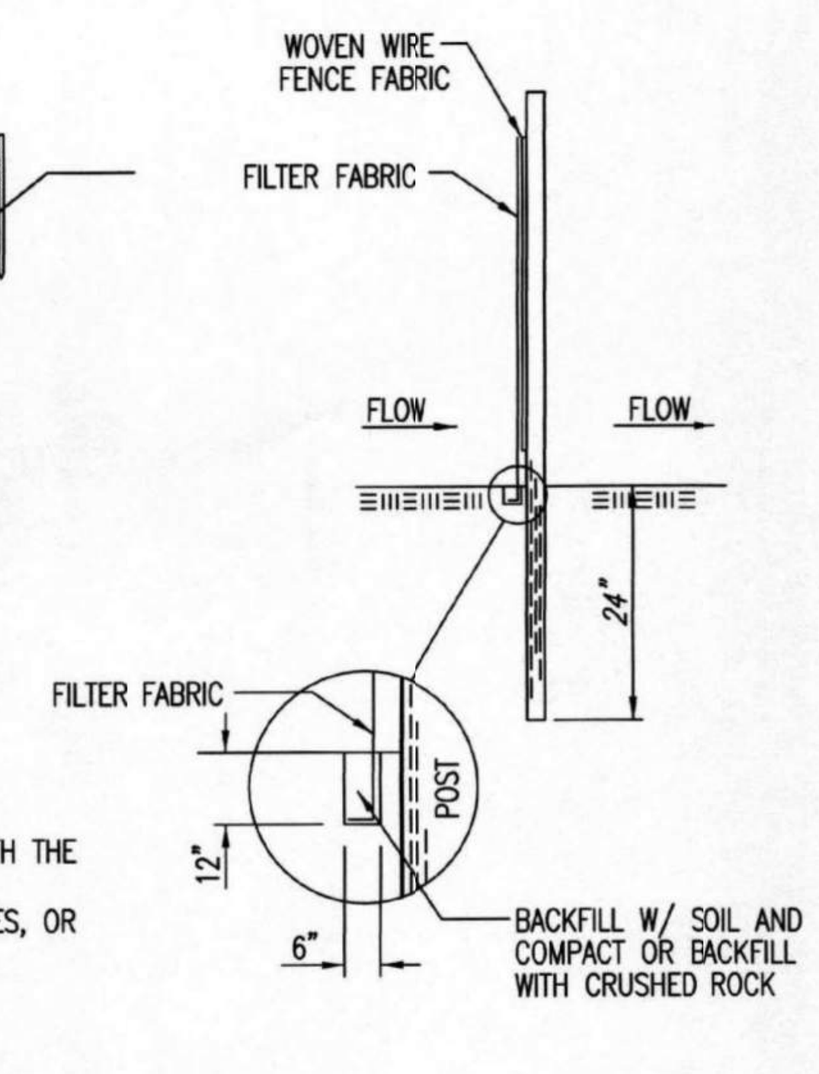
PEC
PROFESSIONAL ENGINEERING CONSULTANTS P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

NOTE: POINT A MUST BE HIGHER THAN POINT B SO THAT WATER FLOWS OVER THE SILT FENCE FABRIC AND NOT AROUND IT.



ELEVATION

SILT FENCE DITCH CHECKS
(STREAM PROTECTION)



ANCHOR TRENCH DETAIL

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION.
THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED.
WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK, NOT OVER IT. SILT FENCE DITCH CHECKS OFTEN FAIL WHEN OVERTOPPED.
SILT FENCE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH.
THE SILT FENCE SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE TOP OF THE LOW POINT OF THE FENCE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK.
SILT FENCE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD.
SILT FENCE SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.

THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH CHECK DITCH GRADE (%)	SPACING CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS AT LEAST 12" DEEP BY 6" WIDE.
EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK.
PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH FOR LATER USE.
ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSTREAM SIDE OF THE TRENCH.
PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSTREAM EDGE OF THE TRENCH. LINE TWO SIDES OF THE TRENCH WITH THE FABRIC AS SHOWN ON DETAIL. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED.
LAY THE EXPOSED SILT FENCE ON THE UPSTREAM SIDE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSTREAM OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 24". PLACE POSTS NO MORE THAN 4' APART.
ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

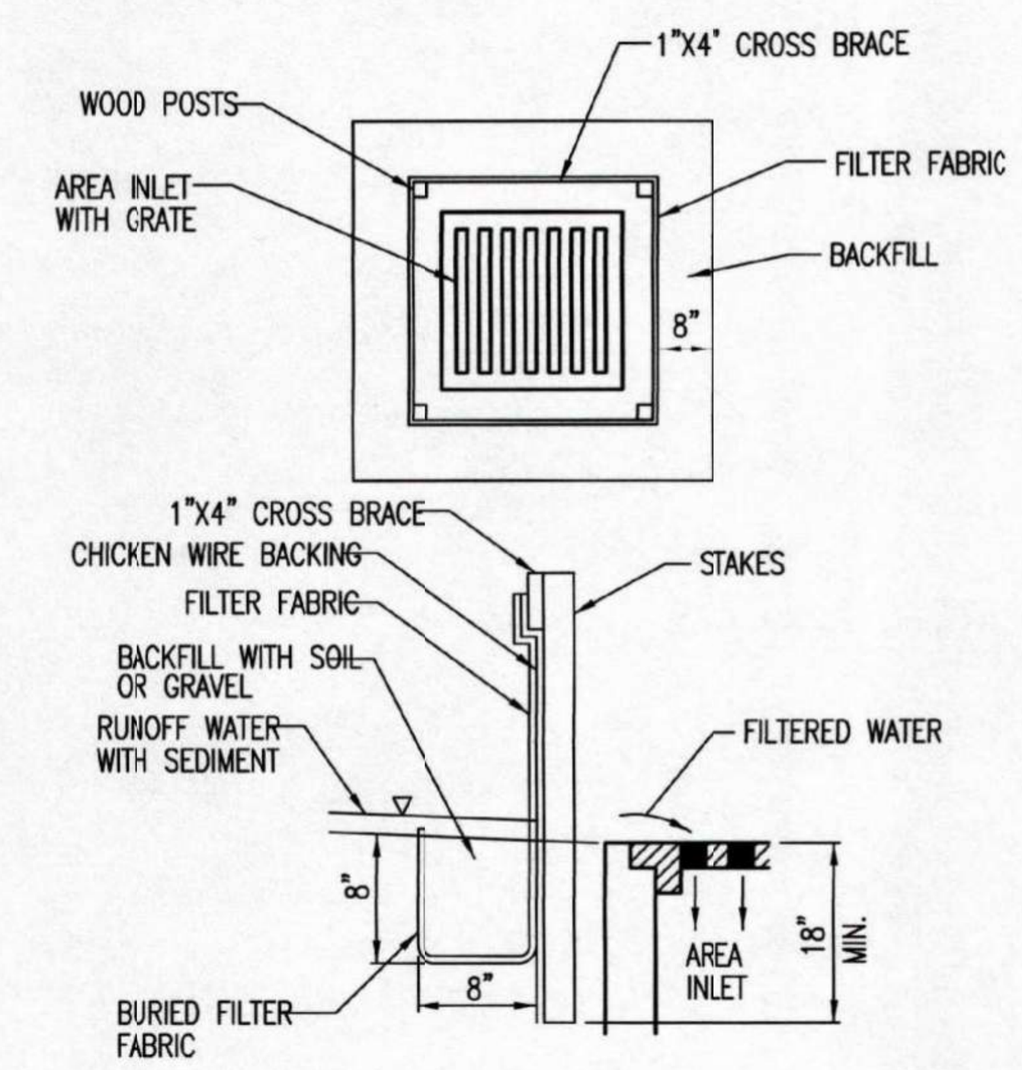
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK-NOT OVER IT. PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. SILT FENCE INSTALLATIONS QUICKLY DETERIORATE WHEN WATER OVERTOPS THEM.
DO NOT PLACE SILT FENCE POSTS ON THE UPSTREAM SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL.
DO NOT PLACE A SILT FENCE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW.
DO NOT PLACE SILT FENCE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW.
FOLLOW PRESCRIBED DITCH CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS.
DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE LOW POINT ON THE TOP OF THE FENCE.
DO NOT PLACE SILT FENCE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.

INSPECTION AND MAINTENANCE:

SILT FENCE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW AROUND THE DITCH CHECK?
DOES WATER FLOW UNDER THE DITCH CHECK?
DOES THE SILT FENCE SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



SILT FENCE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION.
THE WIRE OR POLYMERIC MESH BACKING USED TO HELP SUPPORT THE SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION.
THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
THE MATERIAL USED TO FRAME THE TOPS OF THE POSTS SHOULD BE 1" BY 4" BOARDS.
SILT FENCE FABRIC AND SUPPORT BACKING SHOULD BE ATTACHED TO THE WOODEN POSTS AND FRAME WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE A SILT FENCE DROP INLET BARRIER IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED.
WATER SHOULD FLOW THROUGH SILT FENCE, NOT OVER IT. SILT FENCE BARRIERS FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED.
WHEN USED AS A BARRIER FOR AREA INLETS, SILT FENCE FABRIC AND POSTS MUST BE SUPPORTED AT THE TOP BY A WOODEN FRAME.
WHEN A SILT FENCE BARRIER FOR AREA INLETS IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 8" DEEP BY 8" WIDE.
DRIVE POSTS TO A DEPTH OF AT LEAST 18" AROUND THE PERIMETER OF THE AREA INLET.
THE DISTANCE BETWEEN POSTS SHOULD BE 4' OR LESS. IF THE DISTANCE BETWEEN TWO ADJACENT CORNER POSTS IS MORE THAN 4', ADD ANOTHER POST(S) BETWEEN THEM.
CONNECT THE TOPS OF ALL THE POSTS WITH A WOODEN FRAME MADE OF 1" BY 4" BOARDS. USE NAILS OR SCREWS FOR FASTENING.
ATTACH THE WIRE OR POLYMERIC-MESH BACKING TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS.
ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC LONG ENOUGH TO WRAP AROUND THE PERIMETER OF THE AREA INLET. ADD MORE LENGTH FOR OVERLAPPING THE FABRIC JOINT. PLACE THE EDGE OF THE FABRIC IN THE TRENCH, STARTING AT THE OUTSIDE EDGE OF THE TRENCH. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED.
ATTACH THE SILT FENCE TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. THE JOINT SHOULD BE OVERLAPPED TO THE NEXT POST.

NOTE: WHEN A SILT FENCE BARRIER FOR AREA INLET IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

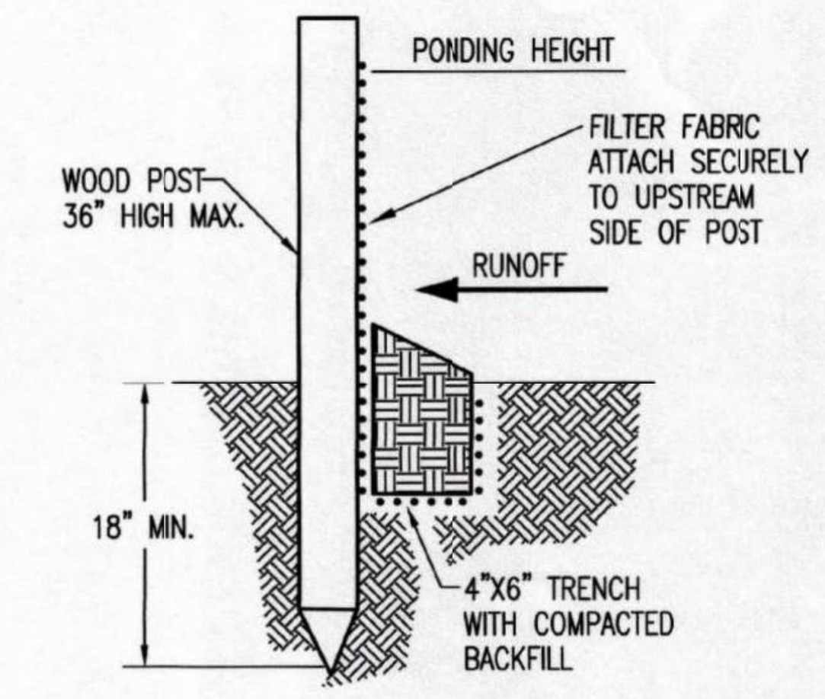
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE BARRIER FOR AREA INLET-NOT OVER IT. PLACE A SILT FENCE BARRIER FOR AREA INLET IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. SILT FENCE BARRIER FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED.
DO NOT PLACE POSTS ON THE OUTSIDE OF THE SILT FENCE BARRIER FOR AREA INLET. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESISTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL.
DO NOT INSTALL SILT FENCE BARRIER FOR AREA INLETS WITHOUT FRAMING THE TOP OF THE POSTS. THE CORNER POSTS AROUND AREA INLETS ARE STRESSED IN TWO DIRECTIONS WHEREAS A NORMAL SILT FENCE IS ONLY STRESSED IN ONE DIRECTION. THIS ADDED STRESS REQUIRES MORE SUPPORT.

INSPECTION AND MAINTENANCE:

SILT FENCE BARRIER FOR AREA INLETS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW UNDER THE SILT FENCE?
DOES THE SILT FENCE SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



SILT FENCE BARRIERS

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION.
THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT.
WHEN PRACTICABLE, SILT FENCE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW.
SILT FENCE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 6" DEEP BY 4' WIDE.
MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE.
ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH.
PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT-FENCE FABRIC SHOULD REMAIN EXPOSED.
LAY THE EXPOSED SILT FENCE UPSLOPE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSLOPE OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 18". PLACE POSTS NO MORE THAN 4' APART.
ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WHEN PRACTICABLE, DO NOT PLACE SILT FENCE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. WHEN THE FLOW CONCENTRATES, IT OVERTOPS THE BARRIER AND THE SILT FENCE SLOPE BARRIER QUICKLY DETERIORATES.
DO NOT PLACE SILT-FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL.
DO NOT PLACE SILT FENCE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT SUFFICIENTLY ANCHORED, IT WILL WASH OUT.
SILT FENCE SLOPE BARRIERS MUST BE DUG INTO THE GROUND-SILT FENCE AT GROUND LEVEL DOES NOT WORK BECAUSE WATER WILL FLOW UNDERNEATH.

INSPECTION AND MAINTENANCE:

SILT FENCE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
DOES WATER FLOW UNDER THE SLOPE BARRIER?
DO THE SILT FENCES SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

REVISION DATE: MAY 2013

GARY L. JANZEN LICENSED 16294 KANSAS PROFESSIONAL ENGINEER
05/30/13

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

SILT FENCE DITCH CHECK AND BARRIER DETAILS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET

SW-502

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CITY OF WICHITA
ADVANCED LEARNING LIBRARY
McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

EROSION CONTROL DETAILS

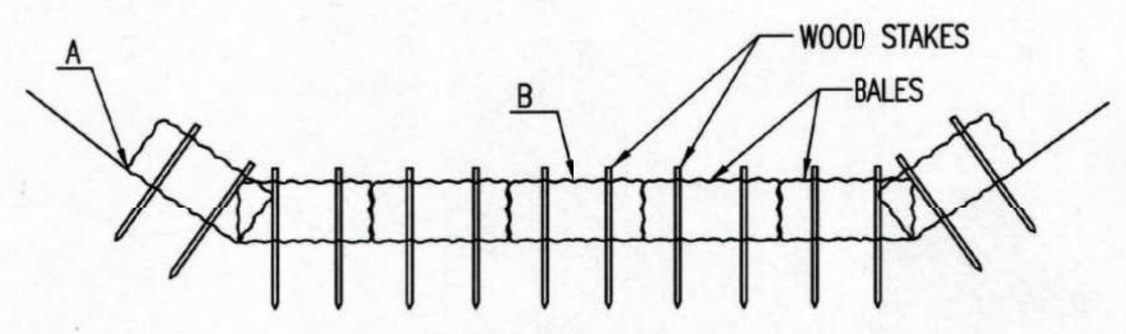
PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY:

C6.3

SHEET OF

PEC
PROFESSIONAL ENGINEERING CONSULTANTS P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

NOTE: POINT A MUST BE HIGHER THAN POINT B SO THAT WATER FLOWS OVER THE BALES AND NOT AROUND THEM.



STRAW BALE DITCH CHECKS

MATERIAL SPECIFICATION:

BALE DITCH CHECKS MAY BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE.
THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
OPTIONAL: THE DOWNSTREAM SCOUR APRON SHOULD BE CONSTRUCTED OF A DOUBLE-NETTED STRAW EROSION-CONTROL BLANKET AT LEAST 6' WIDE.
OPTIONAL: THE METAL LANDSCAPE STAPLES USED TO ANCHOR THE EROSION-CONTROL BLANKET SHOULD BE AT LEAST 8" LONG.

PLACEMENT:

BALE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH.
THE DITCH CHECK SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE CHECK IS HIGHER THAN THE TOP OF THE LOWEST CENTER BALE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK.
STRAW BALE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD.
BALES SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.
THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH CHECK SPACING

DITCH GRADE (%)	CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS 4" DEEP AND A BALE'S WIDTH WIDE. EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK. PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH–IT WILL BE USED LATER.
OPTIONAL: ON THE DOWNSTREAM SIDE OF THE TRENCH, ROLL OUT A LENGTH OF EROSION-CONTROL BLANKET (SCOUR APRON) EQUAL TO THE LENGTH OF THE TRENCH. PLACE THE UPSTREAM EDGE OF THE EROSION-CONTROL BLANKET ALONG THE BOTTOM UPSTREAM EDGE OF THE TRENCH. THE EROSION CONTROL BLANKET SHOULD BE ANCHORED IN THE TRENCH WITH ONE ROW OF 8" LANDSCAPE STAPLES PLACED ON 18" CENTERS. THE REMAINDER OF THE EROSION-CONTROL BLANKET (THE PORTION THAT IS NOT LYING IN THE TRENCH) WILL SERVE AS THE DOWNSTREAM SCOUR APRON. THIS SECTION OF THE BLANKET SHOULD BE ANCHORED TO THE GROUND WITH 8" LANDSCAPE STAPLES PLACED AROUND THE PERIMETER OF THE BLANKET ON 18" CENTERS. THE REMAINDER OF THE BLANKET SHOULD BE ANCHORED USING TWO EVENLY SPACED ROWS OF 8" LANDSCAPE STAPLES ON 18" CENTERS PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH.
PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE ALONG THE CENTERLINE OF THE DITCH CHECK, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND.
ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE UPSTREAM SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP AND EXTEND UPSTREAM NO MORE THAN 24".

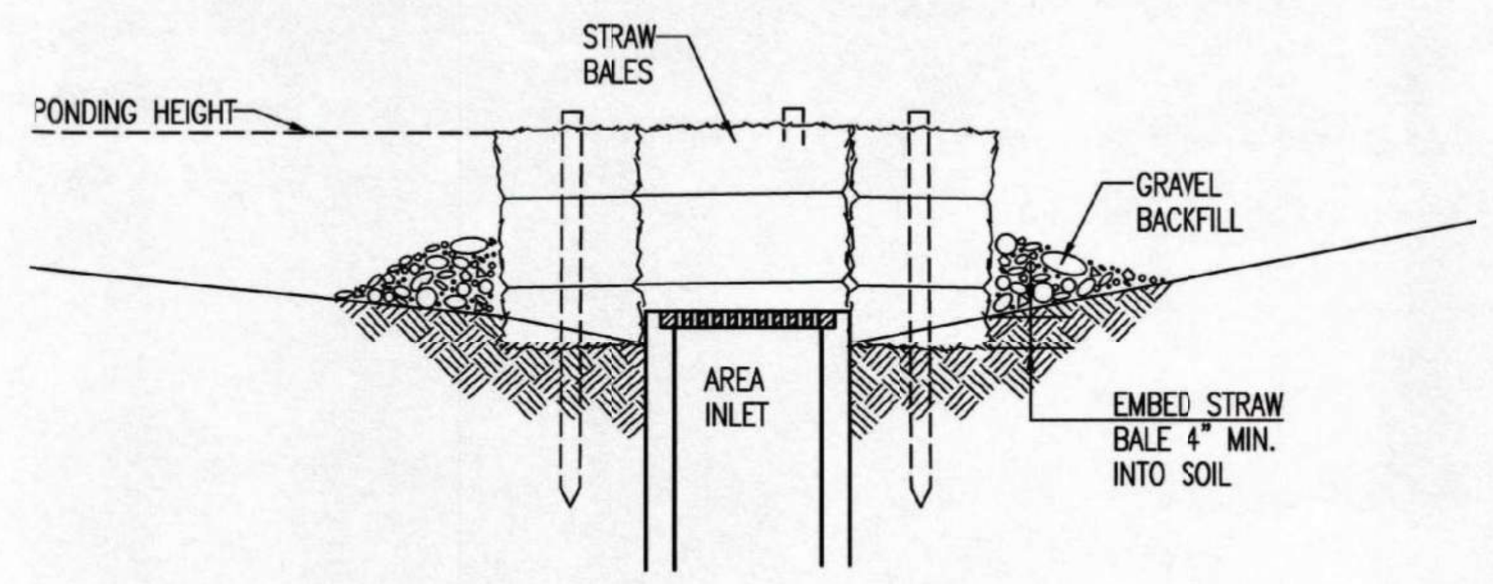
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

DO NOT PLACE A BALE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW.
DO NOT PLACE BALE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW.
FOLLOW PRESCRIBED DITCH-CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS.
DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE CHECK IS HIGHER THAN THE TOP OF THE LOWEST CENTER BALE.
DO NOT PLACE BALE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.
BALE DITCH CHECKS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE CHECK.

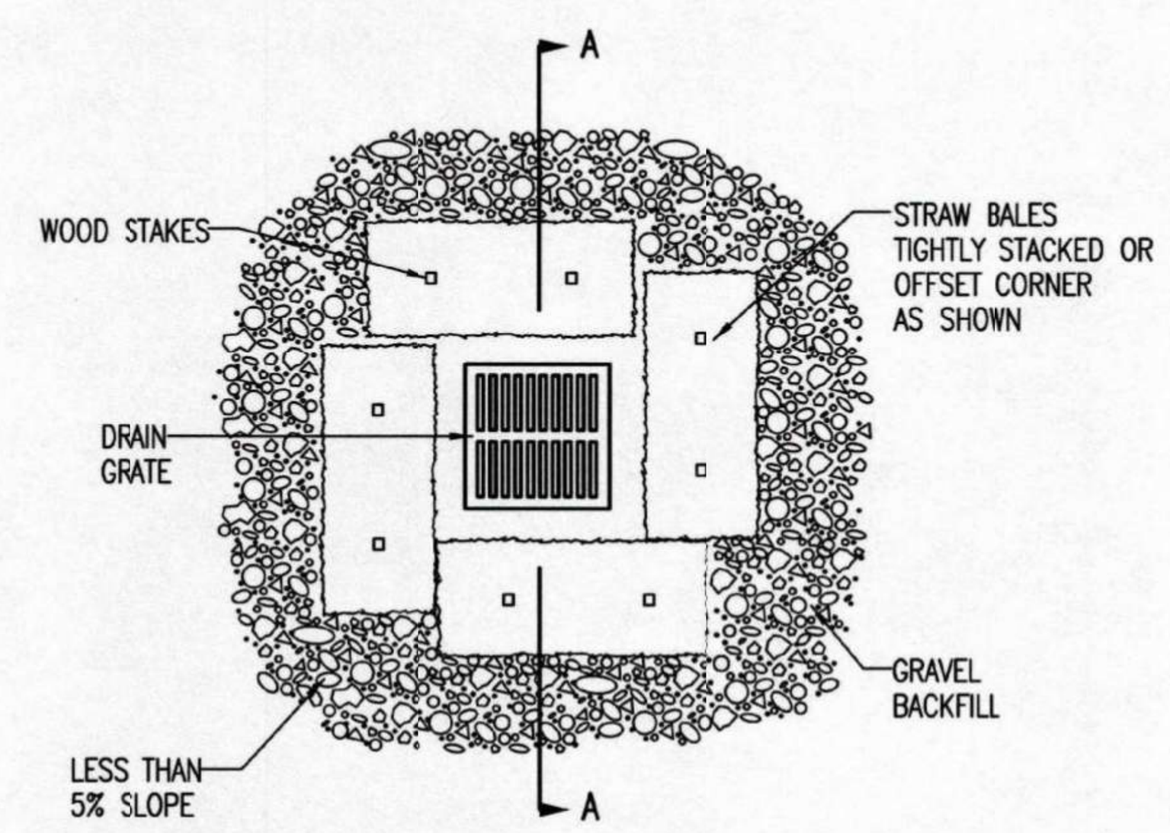
INSPECTION AND MAINTENANCE:

BALE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW AROUND THE DITCH CHECK?
DOES WATER FLOW UNDER THE DITCH CHECK?
DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
ARE ANY BALES AND/OR SCOUR APRONS (OPTIONAL) DISLODGED?
ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



SECTION A–A



STRAW BALE BARRIERS FOR AREA INLETS

(INLET PROTECTION)

MATERIAL SPECIFICATION:

BALE AREA INLET BARRIERS SHOULD BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE.
THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
TWINE SHOULD BE USED TO BIND BALES. THE USE OF WIRE BINDING IS PROHIBITED BECAUSE IT DOES NOT BIODEGRADE READILY.

PLACEMENT:

BALE AREA INLET BARRIERS SHOULD BE PLACED DIRECTLY AROUND THE PERIMETER OF A DROP INLET. WHEN A BALE AREA INLET BARRIER IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 4" DEEP BY A BALE'S WIDTH WIDE.
PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. SOME BALES MAY NEED TO BE SHORTENED TO FIT INTO THE TRENCH AROUND THE AREA INLET. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS.
STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND.
ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE RECEIVING SIDE OF THE BARRIER AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP.
NOTE: WHEN A BALE AREA INLET BARRIER IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

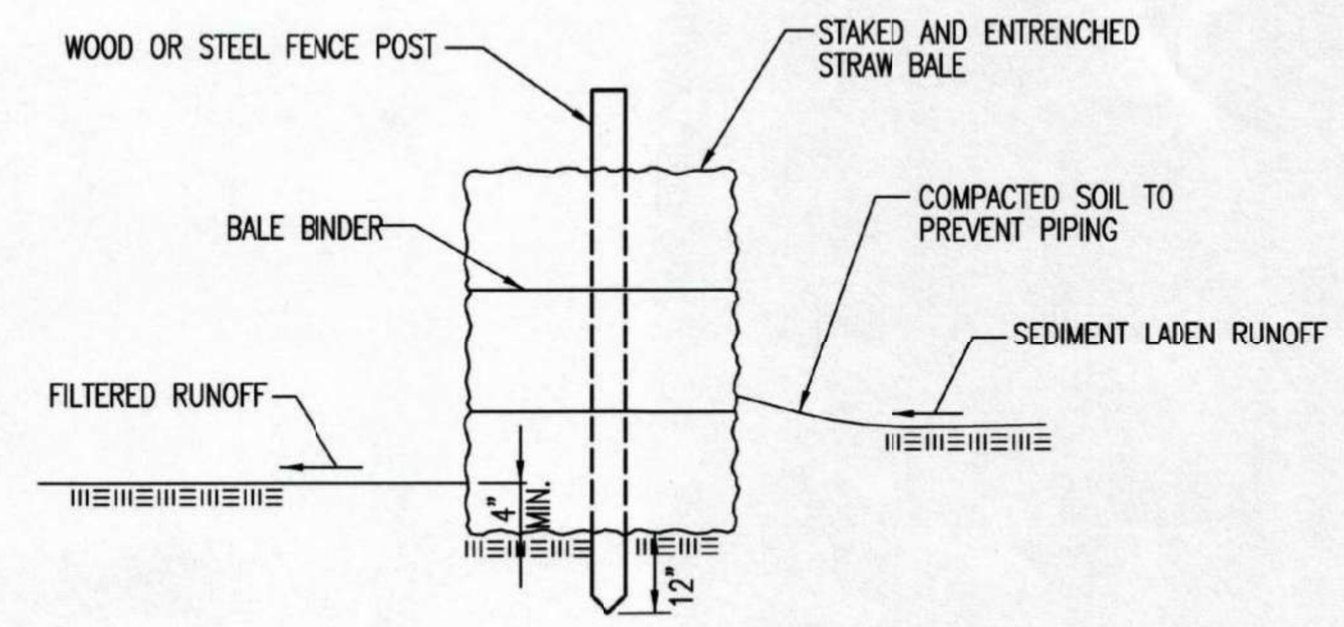
LIST OF COMMON PLACEMENT INSTALLATION MISTAKES TO AVOID:

BALES SHOULD BE PLACED DIRECTLY AGAINST THE PERIMETER OF THE AREA INLET. THIS ALLOWS OVERTOPPING WATER TO FLOW DIRECTLY INTO THE INLET INSTEAD OF ONTO NEARBY SOIL CAUSING SCOUR. BALE AREA INLET BARRIERS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE BARRIER.

INSPECTION AND MAINTENANCE:

BALE AREA INLET BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW UNDER THE AREA INLET BARRIER?
DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
ARE ANY BALES DISLODGED?
ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



STRAW BALE BARRIERS

MATERIAL SPECIFICATION:

BALE SLOPE BARRIERS MAY BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE.
THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
TWINE SHOULD BE USED TO BIND BALES. THE USE OF WIRE BINDING IS PROHIBITED BECAUSE IT DOES NOT BIODEGRADE READILY.

PLACEMENT:

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT.
WHEN PRACTICABLE, BALE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW.
BALE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 4" DEEP AND A BALE'S WIDTH WIDE. MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE.
PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE ALONG THE CENTERLINE OF THE DITCH CHECK, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND.
ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE UPSLOPE SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WHEN PRACTICAL, DO NOT PLACE BALE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. CONCENTRATED FLOW OVER A SLOPE BARRIER CREATES A SCOUR HOLE ON THE DOWNSLOPE SIDE OF THE BARRIER. THE SCOUR HOLE EVENTUALLY UNDERMINES THE BALES AND THE BARRIER FAILS.
DO NOT PLACE BALE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.
BALE SLOPE BARRIERS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE BARRIER.

INSPECTION AND MAINTENANCE:

BALE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
DOES WATER FLOW UNDER THE SLOPE BARRIER?
DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
ARE ANY BALES DISLODGED?
ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

REVISION DATE: MAY 2013

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

STRAW BALE DITCH CHECK AND BARRIER DETAILS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
1955 PPW		

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET C6.4

GARY L. JANZEN LICENSED 16094 KANSAS PROFESSIONAL ENGINEER

SW-503

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CITY OF WICHITA ADVANCED LEARNING LIBRARY

McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

EROSION CONTROL DETAILS

PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL, CAE
CHK'D BY:

C6.4

SHEET OF

PEC
PROFESSIONAL ENGINEERING CONSULTANTS P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

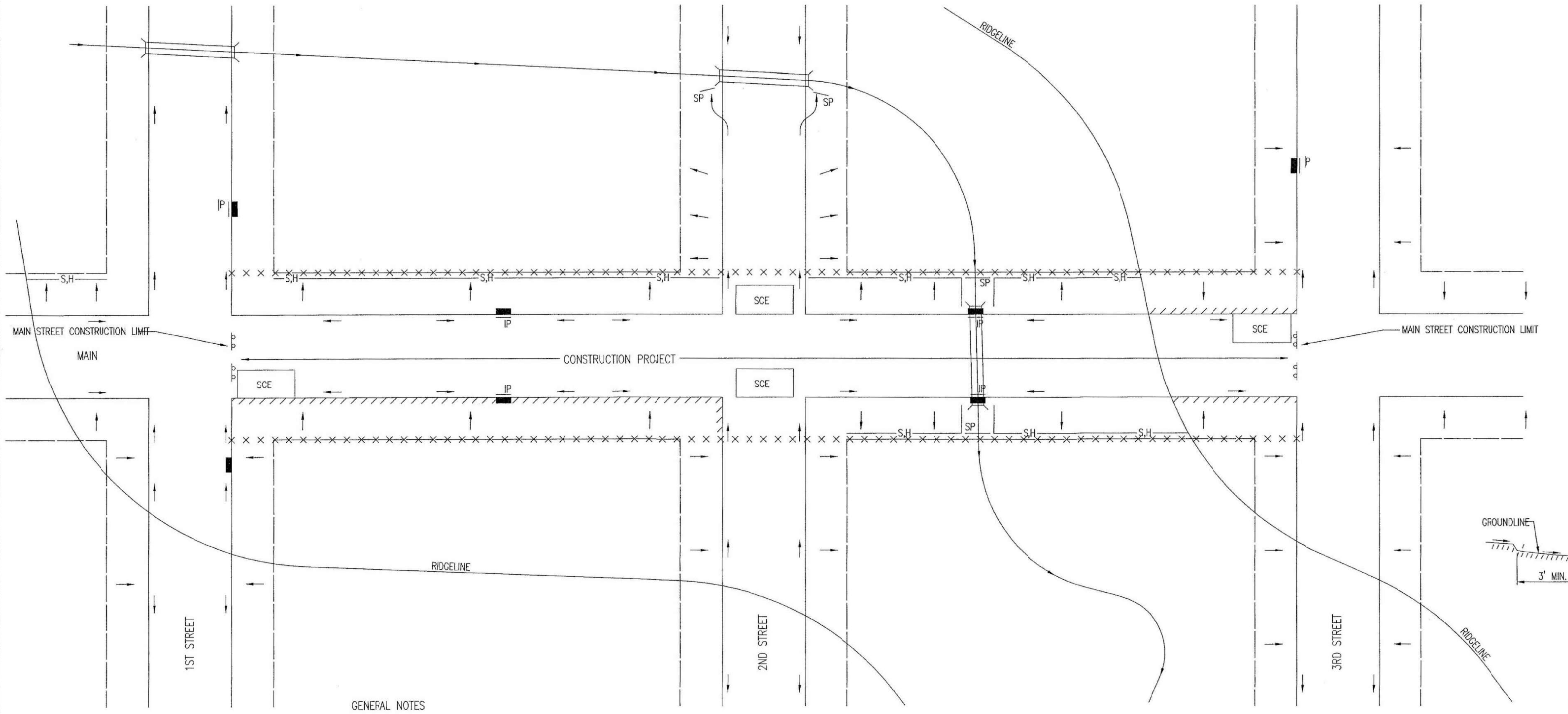
GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

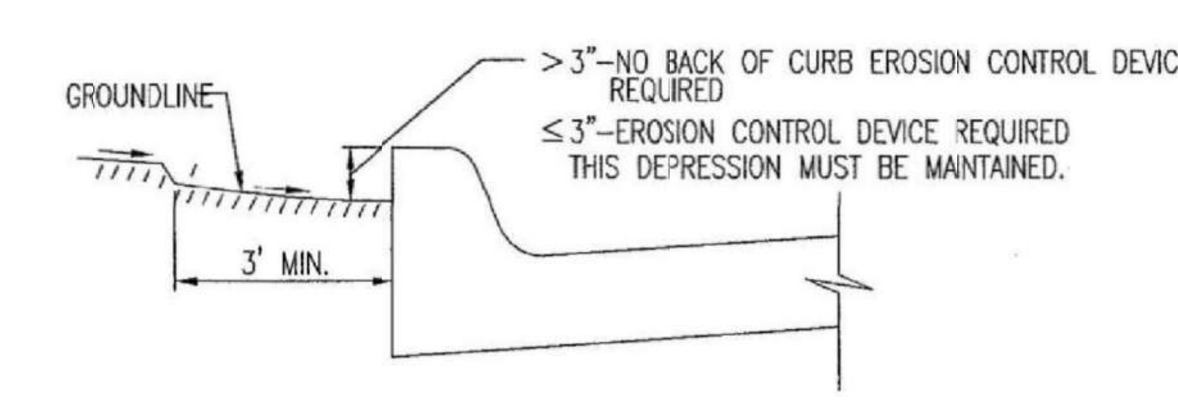
CITY OF WICHITA ADVANCED LEARNING LIBRARY

McLean & 2nd Street Wichita, KS

GENERAL NOTES

1. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPES OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
2. EROSION CONTROL DEVICES MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL THE DISTURBED EARTH IS RESTABILIZED.
3. IF THE PROJECT WILL DISTURB 1 ACRE OR MORE, A FEDERAL/STATE NPDES STORMWATER PERMIT IS REQUIRED. A DETAILED STORMWATER POLLUTION PREVENTION PLAN, IS REQUIRED. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED TO BE THE MINIMUM TO BE SHOWN IN THE POLLUTION PREVENTION PLAN.
4. FOR PROJECTS DISTURBING LESS THAN 1 ACRE, CONTRACTORS ARE ENCOURAGED TO PREPARE STORMWATER POLLUTION PREVENTION PLANS PRIOR TO CONSTRUCTION. EROSION CONTROL DEVICES MUST BE USED ON ALL PROJECTS.
5. FAILURE TO USE AND MAINTAIN EROSION CONTROL DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE CONTRACTOR TO THE PENALTIES PROVIDED FOR THEREIN.
6. THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE A DIFFERENT DEVICE OTHER THAN THOSE SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED AS LONG AS THEY ARE EFFECTIVE AND MAINTAINED.





CURB BACKFILL DETAIL

THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

LEGEND

Symbol	Description
———	R–O–W LIMITS
→	DRAINAGE FLOW PATH
X X X X X	R/W LIMIT WITHIN CONSTRUCTION LIMIT
■	STORM WATER INLETS
IP	INLET PROTECTON
—S,H—	SILT FENCE OR HAY BALE BARRIER
SP	STREAM PROTECTION
SCE	STABILIZED CONSTRUCTION ENTRANCE
///////	BACK OF CURB PROTECTION

GENERAL NOTES

1. THE INTENT OF ALL EROSION CONTROL DEVICES IS TO KEEP ALL SEDIMENT CONFINED TO THE CONSTRUCTION SITE, AND OUT OF ALL UNDERGROUND PIPES, DITCHES, LAKES, AND OTHER DRAINAGE FACILITIES, AND OFF OF STREETS.
2. THE POINT OF COMPLIANCE IS GENERALLY THE RIGHT-OF-WAY LINES WITHIN THE LIMITS OF CONSTRUCTION.
3. EROSION CONTROL DEVICES WILL BE REQUIRED AT ALL POINTS ALONG THE PROJECT WHERE DISTURBED EARTH CAN DRAIN ONTO PRIVATE PROPERTY.
4. INLET PROTECTION DEVICES WILL BE REQUIRED WHEREVER WATER CAN DRAIN OFF THE PROJECT SITE INTO AN INLET, INCLUDING ANY SIDE STREET INLETS.
5. EROSION CONTROL DEVICES SHALL BE INSTALLED AT CREEK CROSSINGS SO AS TO PREVENT SEDIMENT FROM ENTERING THEREIN.
6. STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED, AS NEEDED, TO PREVENT MUD FROM TRACKING ONTO STREETS NOT UNDER CONSTRUCTION AND ON STREETS WITHIN THE PROJECT LIMITS IF TRAFFIC IS BEING MAINTAINED THROUGH THE PROJECT.
7. ANY MUD TRACKED ONTO STREETS MUST BE REMOVED AT THE END OF EACH WORK DAY.
8. THE CONTACTOR WILL BE REQUIRED TO PLACE EROSION CONTROL DEVICES BACK OF CURB, WHENEVER WATER CAN DRAIN OVER CURB, TO KEEP ERODED SOIL OUT OF THE GUTTERLINES, IN ACCORDANCE WITH THE FOLLOWING:
   A. THE DEVICE REQUIRED WILL BE APPROVED EROSION CONTROL MAT LISTED ON THE CITY'S APPROVED MATERIAL LIST. SAID BLANKET SHALL BE PLACED OVER THE APPROPRIATE SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS. (SEE SOIL EROSION BMPs – BACK OF CURB SEDIMENT BARRIER DETAILS)
   B. THIS DEVICE SHALL BE INSTALLED IMMEDIATELY WHENEVER THE CURB IS BACKFILLED TO WITHIN 3" OF THE TOP OF CURB. (SEE CURB BACKFILL DETAIL) OTHER BMP'S MAY BE REQUIRED AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB.
   C. ADDITIONALLY, OTHER EROSION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) WILL BE INSTALLED AT LOCATIONS OF CONCENTRATED FLOW RESULTING IN SEDIMENT OVERRUNNING THE MAT.
   D. SHOULD THE PROJECT PLANS SPECIFY THAT THE RIGHT-OF-WAY IS TO BE SODDED, THE EXCELSIOR MAT WILL NOT BE REQUIRED SO LONG AS THE SOD IS PLACED WITHIN 48 HOURS AFTER CURB BACKFILL REACHES A HEIGHT OF 3" OR LESS FROM TOP OF CURB. (SEE CURB BACKFILL DETAIL)

GARY L. JANZEN
16294
KANSAS
PROFESSIONAL ENGINEER
06/05/15

REVISION: JUNE 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

STREET IMPROVEMENT PROJECTS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
1955 PPW		

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET C6.5

SW-501

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

EROSION CONTROL DETAILS

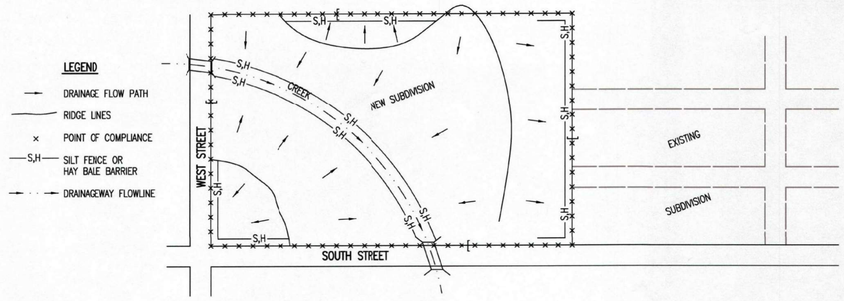
PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY:

C6.5

SHEET OF

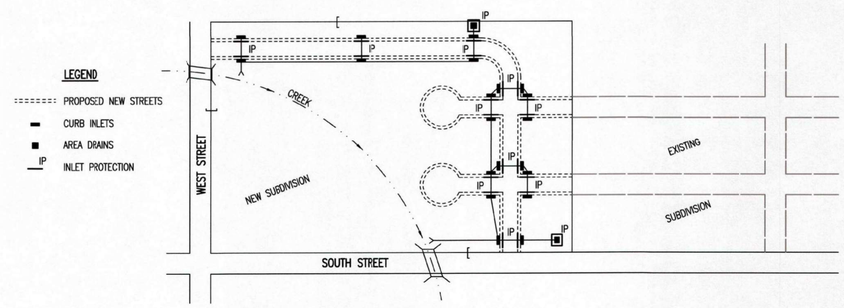
PEC
PROFESSIONAL ENGINEERING CONSULTANTS P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

PHASE 1 – INITIAL EARTHWORK AND UTILITIES (EXCEPT STORM SEWER)



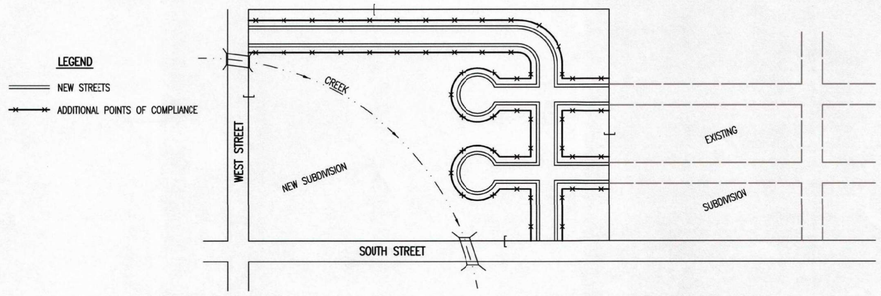
1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, THE POINTS OF COMPLIANCE ARE THE PERIMETER BOUNDARIES AND ANY DRAINAGE WAYS OR STORM SEWERS DRAINING THROUGH OR FROM THE SITE. SHOULD LAKES BE CONSTRUCTED WITHIN THE SUBDVISION THAT WILL DISCHARGE DURING STORMS, THEY ARE ALSO A POINT OF COMPLIANCE.
2. HAY BALES OR SILT FENCE MUST BE CONSTRUCTED ALONG THE PROPERTY LINE WHERE ON SITE WATER CAN DRAIN OFF THE PROPERTY. THESE EROSION CONTROL DEVICES WILL ALSO BE INSTALLED ALONG ANY DRAINAGE DITCH OR LAKE THAT CAN DISCHARGE.
3. SHOULD SILT OR SEDIMENT ENTER THE DITCHES OR STREETS ON THE ADJACENT BOUNDARY STREETS, APPROPRIATE EROSION CONTROL DEVICES WILL BE PLACED WITHIN THE SUBDVISION TO PREVENT THS.
4. ANY MUD TRACKED ONTO ADJACENT STREETS WILL BE REMOVED WITHIN 48 HOURS OR BY FRIDAY AT 6:00 PM, WHICHEVER IS EARLIER.
5. CONTRACTORS WORKING WITHIN THE SITE WILL NOT BE REQUIRED TO USE INDIVIDUAL EROSION CONTROL DEVICES AS LONG AS THOSE SPECIFIED ABOVE ARE IN PLACE AND EFFECTIVE. CONTRACTORS WORKING ON THE BOUNDARY LINE STREETS OR ON ADJACENT PROPERTIES TO EXTEND UTILITIES ARE EXPECTED TO USE EROSION CONTROL DEVICES AT THEIR WORK LOCATIONS, AS NEEDED.
6. UTILIZE STABILIZED CONSTRUCTION ENTRANCE AT ENTRANCE AND EXIT ONTO ANY EXISTING PUBLIC STREETS.
7. IF THE INITIAL EARTH WORK AND UTILITIES ARE DONE AS PART OF A PUBLIC IMPROVEMENT PROJECT, THESE EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS SPECIFIED IN THE INDIVIDUAL PROJECT CONTRACTS. THE CONTRACTOR WILL MAINTAIN THE DEVICES UNTIL COMPLETION OF THE CONTRACT, AT WHICH TIME THE DEVELOPER WILL ASSUME MAINTENANCE RESPONSIBILITIES. IF THESE CONTRACTS ARE NOT PUBLIC IMPROVEMENT PROJECTS, THE DEVELOPER WILL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THESE DEVICES.
8. WITHIN 14 DAYS OF COMPLETION OF EARTHWORK ACTIVITIES IN ANY GIVEN AREA, THAT AREA SHALL BE TEMPORARILY OR PERMANENTLY SEEDED AND MULCHED.

PHASE 2 – INSTALLATION OF STORM SEWER



1. DURING THIS PHASE OF SUBDVISION DEVELOPMENT, ALL EROSION CONTROL DEVICES REQUIRED IN PHASE 1 SHALL REMAIN IN PLACE AND BE MAINTAINED.
2. AS NEW STORM SEWERS, WITH INLETS, ARE INSTALLED, THE STORM SEWERS MUST NOW BE PROTECTED SO ALL NEW INLETS BECOME POINTS OF COMPLIANCE.
3. AREA DRAINS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, HAY BALE OR SILT FENCE PROTECTION WILL BE INSTALLED AROUND THEM.
4. CURB OPENING INLETS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, INLET PROTECTION DEVICES MUST BE INSTALLED. IF WATER CANNOT FLOW INTO CURB INLETS UNTIL STREET CONSTRUCTION IS COMPLETE, THEN STREET CONTRACTOR WILL INSTALL INLET PROTECTION. SEE PHASE 3 – STREET CONSTRUCTION.
5. THE STORM SEWER CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THESE DEVICES.
6. THE SUBDIVISION DEVELOPER WILL MAINTAIN THESE EROSION CONTROL DEVICES ONCE INSTALLED.
7. ALL DISTURBED GROUND WILL BE FINAL GRADED AND TEMPORARILY OR PERMANENTLY SEEDED WITHIN 14 DAYS IF COMPLETION OF WORK IN ANY GIVEN PART OF THE SUBDIVISION.
8. ONCE ALL DISTURBED GROUND DRAINING TO AN INLET HAS BEEN RESTABILIZED WITH GRASS OR SOD, THE SUBDIVISION DEVELOPER WILL BE RESPONSIBLE FOR PERMANENTLY REMOVING THE INLET PROTECTION.

PHASE 3 – STREET CONSTRUCTION

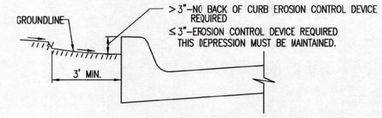


1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, NEW STREETS ARE INSTALLED. ALL EROSION CONTROL DEVICES INSTALLED DURING PHASE 1 AND 2 MUST STILL BE MAINTAINED. THE POINT OF COMPLIANCE NOW SHIFTS TO THE BACK OF CURB ALONG EACH STREET.
2. CURB OPENING INLET PROTECTION:
   A. SUMP AREAS – INLET PROTECTION SHALL BE PROVIDED WHEN STREET SUBGRADE WORK IS COMPLETED
   B. NON-SUMP LOCATIONS – PROVIDE INLET PROTECTION AS SOON AS BASE COURSE ASPHALT IS INSTALLED, BEFORE THE SURFACE COURSE LIFT.
3. EROSION CONTROL DEVICES WILL BE REQUIRED BACK OF CURB WHEREVER WATER CAN FLOW OVER THE CURB AND THE CURB HAS BEEN BACKFILLED TO WITHIN 3" OR LESS OF THE TOP OF CURB (SEE CURB BACKFILL DETAIL). FOR CURBS NOT YET ENTIRELY BACKFILLED (3" OR MORE BELOW TOP OF CURB), ADDITIONAL DEVICES WILL BE REQUIRED AT POINTS WHERE WATER BREAKS OVER CURB WHICH COULD RESULT IN THE PLACEMENT OF SEDIMENT IN THE GUTTER.
4. SEE DETAIL SHEET FOR BACK OF CURB PROTECTION.
5. THE BACK OF CURB PROTECTION SPECIFIED ON THIS PLAN MAY HAVE TO BE SUPPLEMENTED WITH HAY BALE OR SILT FENCE EROSION CONTROL DEVICES AT LOCATIONS WHERE CONCENTRATED FLOW RESULTS IN SEDIMENT BEING CARRIED OVER THE EXCELSIOR MATS.
6. THE STREET CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING BACK OF CURB EROSION CONTROL DEVICES.
7. THE INDIVIDUAL LOT OWNERS WILL BE RESPONSIBLE FOR MAINTAINING THE BACK OF CURB EROSION CONTROL DEVICES IN FRONT OF THEIR LOTS UNTIL SUCH TIME AS ADJACENT DISTURBED EARTH IS STABILIZED WITH GRASS OR SOD.

GENERAL NOTES

1. THE INTENT OF ALL EROSION CONTROL DEVICES IS TO PREVENT ERODED SOIL FROM ENTERING DITCHES, STORM SEWERS, LAKES, STREETS OR ANY OTHER OTHER DRAINAGE FEATURE.
2. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPE OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
3. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS TO REMAIN EFFECTIVE. MAINTENANCE SHALL BE AS INDICATED ON SOIL EROSION BMP'S DETAIL SHEETS.
4. PERSONS DESTROYNG EROSION CONTROL DEVICES SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING THEM OR INSTALLING SUITABLE REPLACEMENT DEVICES.
5. THE DEVELOPMENT OF ANY SUBDIVISION THAT DISTURBS 1 ACRE OR MORE WILL REQUIRE A FEDERAL/STATE NPDES STORMWATER PERMIT. THE PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN IS REQUIRED. EROSION CONTROL DEVICES ARE REQUIRED. THE DETAILS SHOWN ON THIS SHEET ARE THE MINIMUM STANDARDS TO BE SHOWN ON POLLUTION PREVENTION PLANS.
6. FOR SUBDIVISIONS SMALLER THAN 1 ACRE, SOIL EROSION DEVICES ARE REQUIRED. ALSO, DEVELOPERS AND CONTRACTORS ARE ENCOURAGED TO DEVELOP POLLUTION PREVENTION PLANS FOR EACH PROJECT PRIOR TO CONSTRUCTION.
7. FAILURE TO USE AND MAINTAIN SOIL EROSION DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE SUBDIVISION DEVELOPER AND CONTRACTORS TO THE PENALTIES PROVIDED THEREIN.
8. THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE DEVICES OTHER THAN THAT SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED SO LONG AS THEY ARE EFFECTIVE AND MAINTAINED.
9. A STABILIZED EARTH SURFACE IS DEFINED AS ONE THAT IS HARD SURFACED WITH CONCRETE, ASPHALT, OR THE LIKE, OR ONE ON WHICH 70% OF THE GRASS HAS GERMINATED ON THE ENTIRE SURFACE.

SEE DETAIL SHEET FOR BACK OF CURB PROTECTION DETAIL



CURB BACKFILL DETAIL (STREET CONSTRUCTION ONLY)

THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

REVISION DATE: MAY 2013

GARY L. JANZEN LICENSED 16284 PROFESSIONAL ENGINEER KANSAS
05-13-13

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

SUBDIVISION DEVELOPMENT PROCESS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
1955 PPW		

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316)268-4501

SHEET C6.6

SW-508

GLMV Architecture
1525 East Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

CITY OF WICHITA ADVANCED LEARNING LIBRARY

McLean & 2nd Street Wichita, KS

MARK	DATE	DESCRIPTION
12	8/5/16	ASI 001
	6/8/16	RFI NO. 4
11	6/7/16	CITY COMMENTS
6	4/7/16	ADDENDUM NO. 6
5	4/5/16	ADDENDUM NO. 5
3	3/31/16	ADDENDUM NO. 3

EROSION CONTROL DETAILS

PROJECT NO: 14016.000
DATE: 12/23/15
DRAWN BY: CSL,CAE
CHK'D BY:

C6.6

SHEET OF

PEC PROFESSIONAL ENGINEERING CONSULTANTS P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

Saved 05-24-2016 11:08:31 AM by CAE
Plotted 05-24-2016 11:09:13 AM by CAE
U:\Wichita-Fac\2013\13493\001\Mark\Drawings\13493-001-C6.6 EROSION CONTROL DETAILS