

GENERAL NOTES

- UNLESS SHOWN OR OTHERWISE STATED ON THESE DRAWINGS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS.
- THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.
- ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- TREES TO BE REMOVED ARE MARKED . . . ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.
- CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.
- EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF SEVENTY-TWO (72) HOURS TO UTILITY COMPANIES TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL	800-344-7233
OR LOCAL WICHITA	687-2470

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF EMERGENCY:

COX COMMUNICATIONS (CABLE)	262-0661
WESTAR (ELECTRIC)	383-8600
KANSAS GAS SERVICE (GAS)	832-3101
SBC (TELEPHONE)	800-870-8390
CITY OF WICHITA WATER & SEWER	262-6000
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS 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 WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- CONTRACTOR TO COORDINATE WORK WITH OTHER UTILITY AND/OR PAVING CONTRACTORS ON SITE.
- CONTRACTOR SHALL RESEED AND MULCH ALL DISTURBED AREAS. COST SHALL BE CONSIDERED SUBSIDIARY TO SITE RESTORATION. SEE SHEET
- CONTRACTOR TO REFER TO SWPP FILED ON SITE FOR EROSION/SEDIMENT CONTROL.
- WORK DONE UNDER THIS PROJECT IS SUBJECT TO THE CITY OF WICHITA REQUIREMENTS FOR "CONSTRUCTION OF INFRASTRUCTURE IMPROVEMENTS BY PRIVATE CONTRACT." THE CONTRACTOR SHALL BE FAMILIAR AND COMPLY WITH ALL OF THE REQUIREMENTS, INCLUDING BONDING, INSPECTION, TESTING, NOTIFICATION, PROVIDING AS-BUILT DRAWINGS, PAYING FOR ALL NECESSARY CONNECTIONS AND/OR STREET REPAIR FEES AND PROVIDING PIPE MATERIAL AND OTHER CERTIFICATIONS.
- ALL STORM SEWER TRENCHES TO BE BACKFILLED WITH SAND, FLUSHED & VIBRATED WHERE STORM SEWER TRENCHES RUN BENEATH THE PROPOSED BUILDING.

CONTROL POINTS

- PT #2
 1. PK Nail with MKEC washer
 2. N = 1694794.89 E = 1631395.07
 Elev. = 1316.27 NAVD 88
- PT #3
 1. PK Nail with MKEC washer
 2. N = 1694664.67 E = 1631369.14
 Elev. = 1317.36 NAVD 88
- PT #7
 1. PK Nail with MKEC washer
 2. N = 1693943.35 E = 1631741.59
 Elev. = 1314.22 NAVD 88
- PT #8
 1. PK Nail with MKEC washer
 2. N = 1693949.05 E = 1631483.51
 Elev. = 1315.35 NAVD 88
- PT #13
 1. PK Nail with MKEC washer
 2. N = 1694661.99 E = 1631112.90
 Elev. = 1317.62 NAVD 88

PRIVATE STORM WATER SEWER

TO SERVE

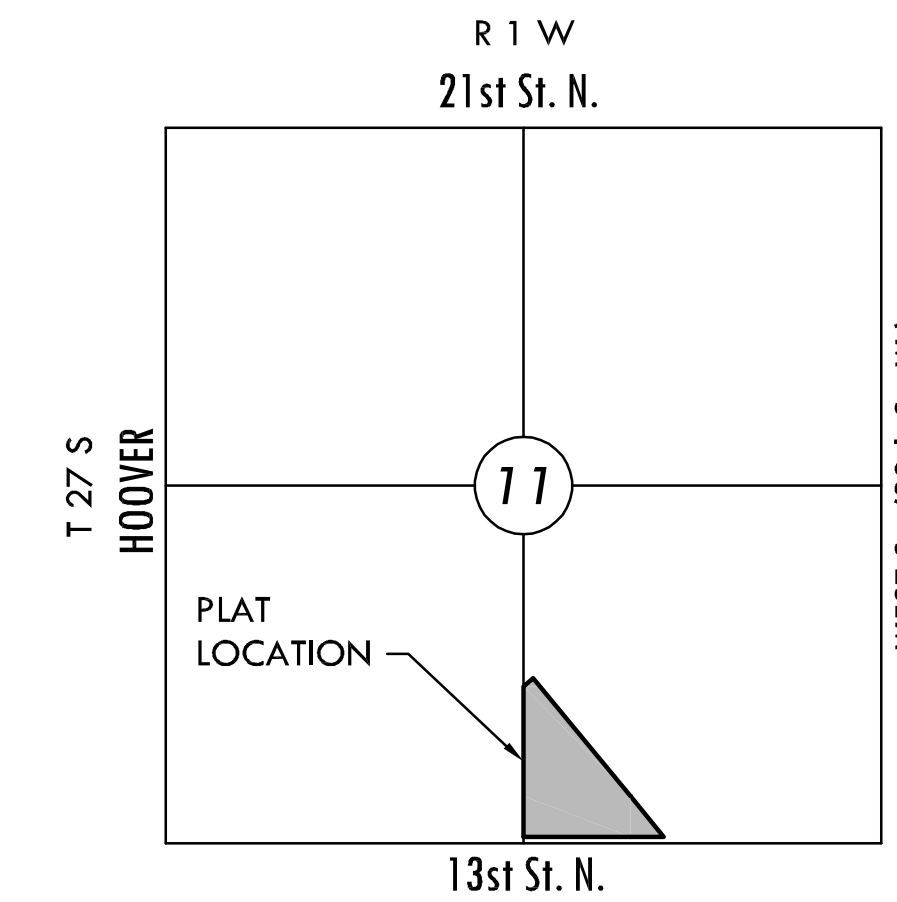
PRESBYTERIAN MANOR

PROJECT NO. 0163PPD

THE CITY OF WICHITA, KANSAS
 GARY JANZEN, P.E. - CITY ENGINEER

OCA NO. 607861

DISTURBED AREA=1.6 AC INCREASE BEYOND EXISTING
 PROPOSED IMPERVIOUS=9.4 AC
 DETENTION=N/A
 WQ_v=0.28 AC-FIT
 CP_v = N/A
 WQ_v IS PROVIDED BY A HYDROGUARD UNIT. CP JS PROVIDED BY AN EXISTING DETENTION POND. THIS OVERALL PROJECT SATISFIES CHAPTER 16.32 OF THE CITY CODE BY THE CONSTRUCTION OF A HYDROGUARD UNIT FOR WATER QUALITY TREATMENT.



VICINITY MAP

No Scale

As-Built
Partial Completion
 Excludes Lines 1,2,3,5,6,7,8
 Line 4 Sta. 10+00.0 to Sta. 13+37.9

AS BUILTS

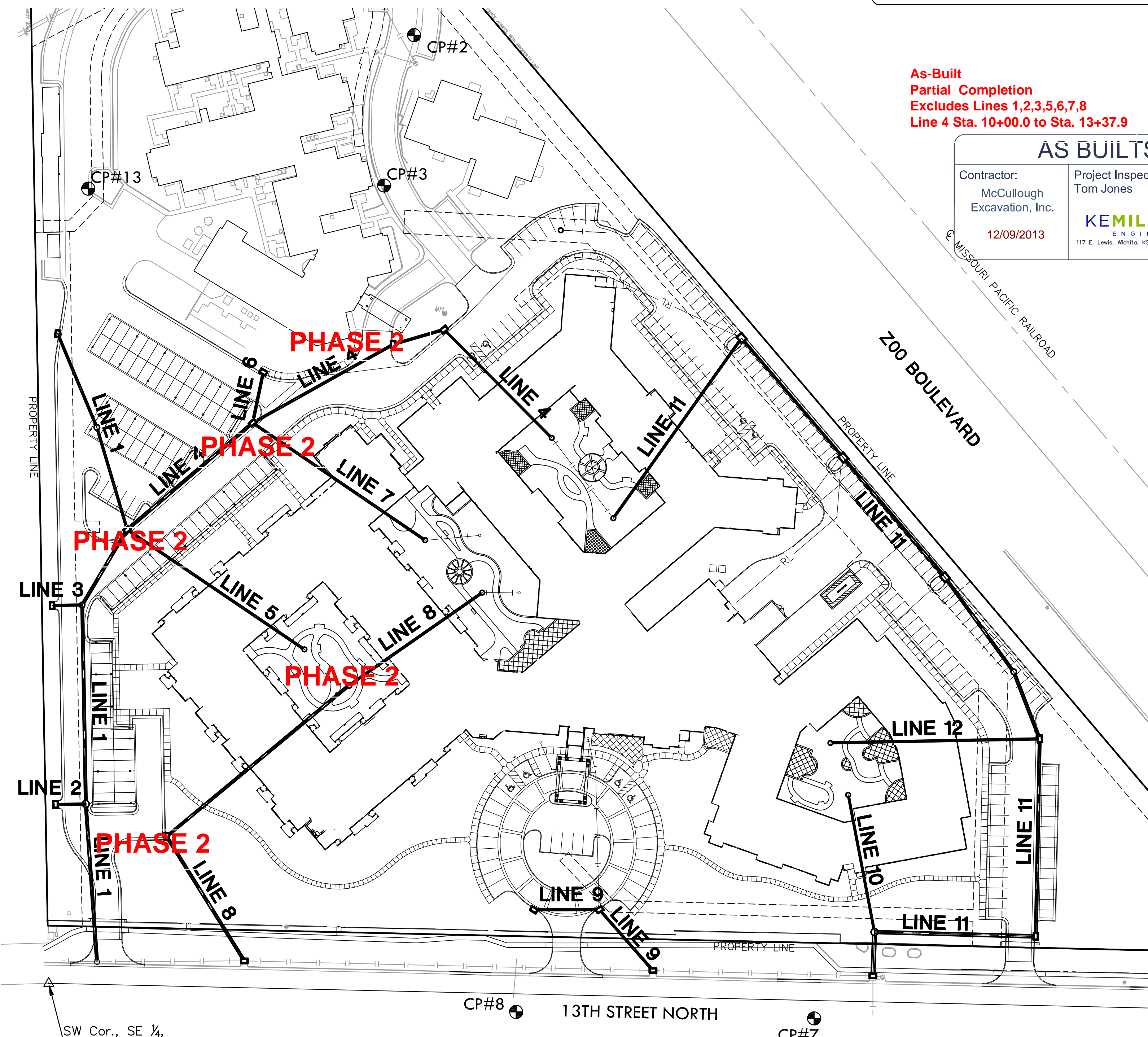
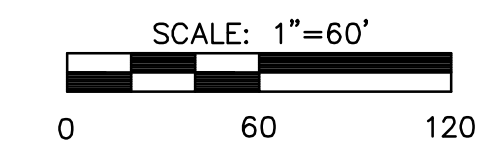
Contractor: McCullough Excavation, Inc. 12/09/2013	Project Inspector: Tom Jones KEMILLER ENGINEERING PA 117 E. Lewis, Wichita, KS 67202 (316)264-0242
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INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-4	STORM WATER DETAILS
5	SWS LINE 1
6	SWS LINE 1-3
7	SWS LINE 4
8	SWS LINE 5-6
9	SWS LINE 7
10	SWS LINE 8
11	SWS LINE 9-10
12	SWS LINE 11
13	SWS LINE 11
14	SWS LINE 12

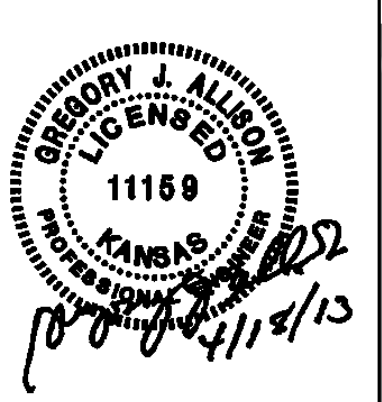
BENCHMARKS

BM#1 PK Nail and Washer on South side of 13th Street North, in line with East edge of East drive into Presbyterian Manor, 34 feet South of back of North curb of 13th Street.
 Elev. = 1314.21 (NAVD 88)



MKEC
 ENGINEERING
 CONSULTANTS, INC.

411 N. WEBB ROAD
 WICHITA, KS. 67206
 316 - 684 - 9600



PRIVATE STORM WATER SEWER PLAN FOR
PRESBYTERIAN MANOR
 WICHITA, KANSAS

SWS TITLE SHEET

SHEET TITLE
0163PPD
 PROJECT NUMBER

SPE | BKS | GJA
 DESIGNED | DRAWN | CHECKED

ISSUED
 April 2013

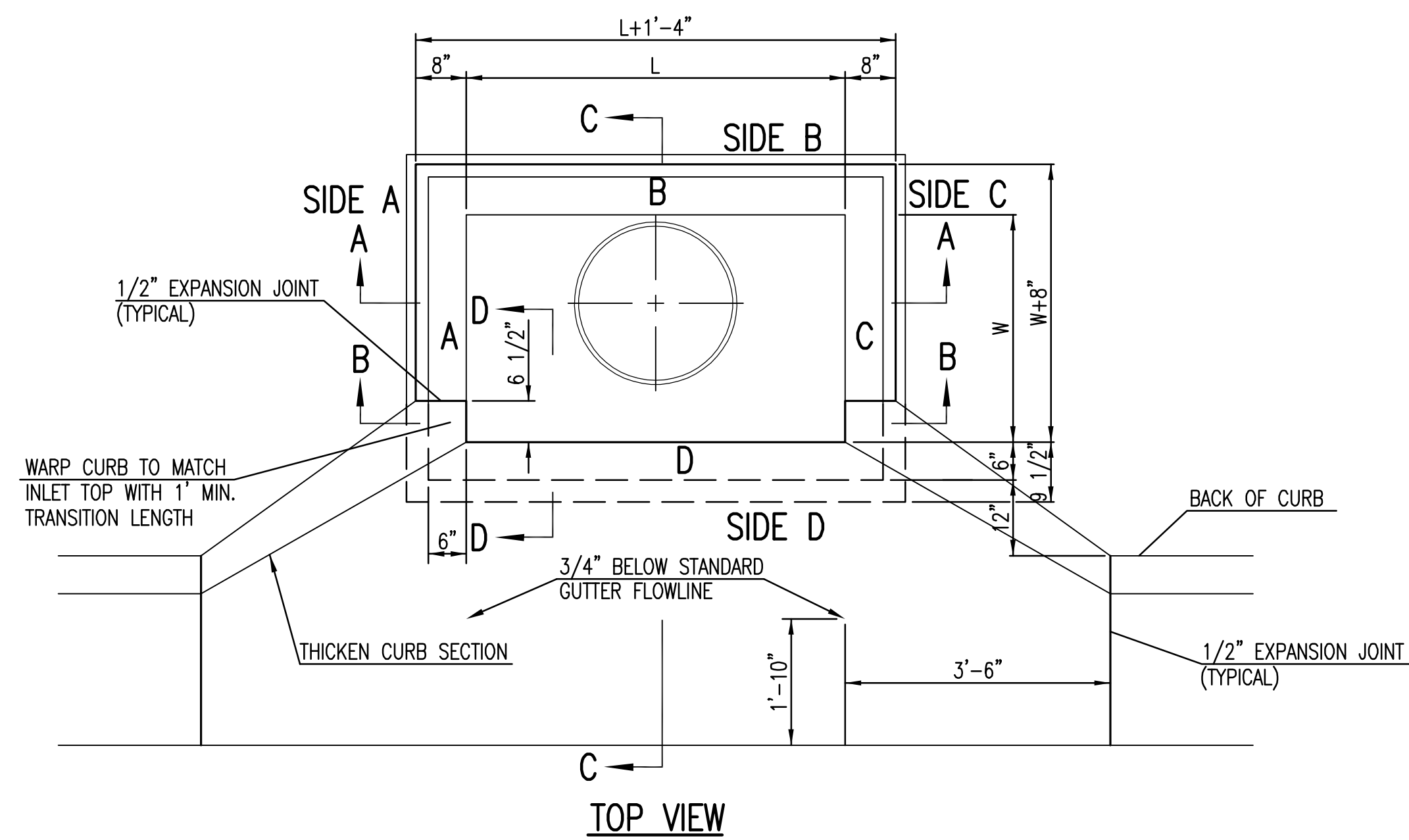
REVISED

SHEET NO.
1 of 14

**APPROVED AS NOTED
 BY CITY ENGINEER OF WICHITA,
 BY STORMWATER DEPARTMENT**

Engineering *Julian Kallman* 4-23-13
 Storm Water (Public Works) *[Signature]* 05/02/13

NOTE TO CONTRACTORS
Public Property:
 Inspection and testing for the storm water sewer 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 Professional Engineer licensed in the state of Kansas. No work shall be performed in dedicated easements or public rights-of-way by the Contractor without such inspection, nor shall any work be commenced without written authorization by the City Engineer. All construction and materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).



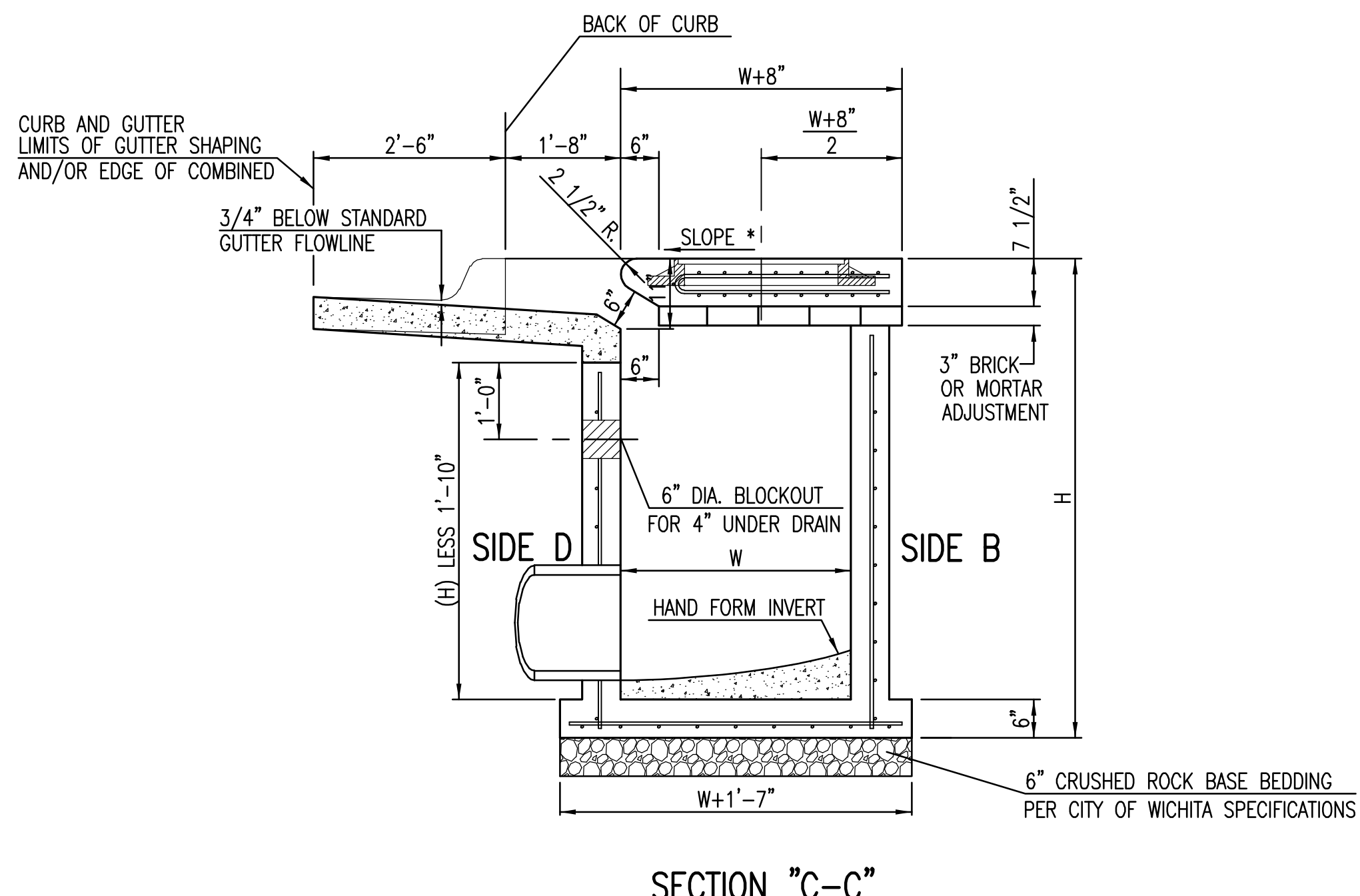
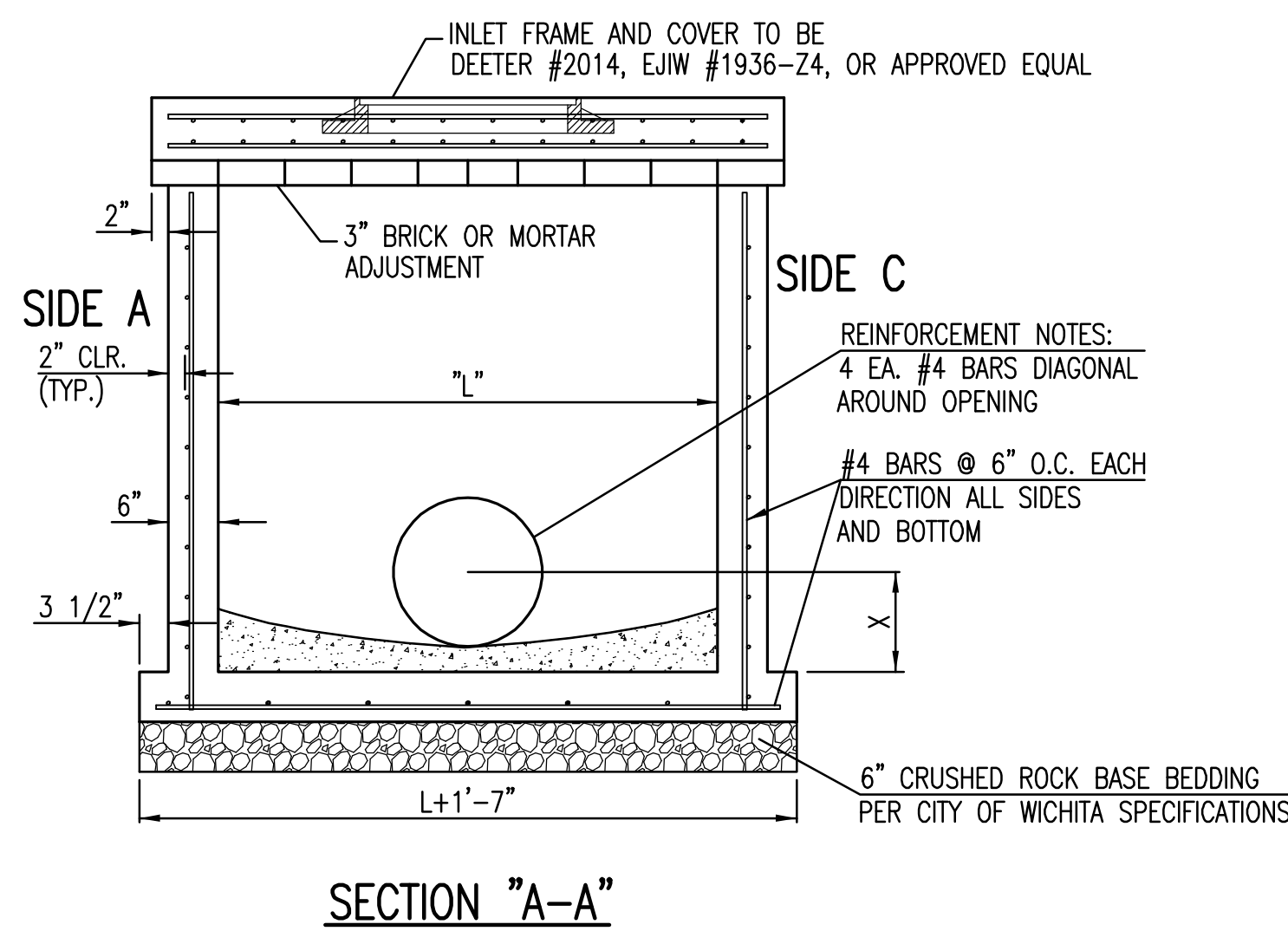
BAR SCHEDULE		
INLET OPENING	B1 BARS	SPACING
5'-0"	#4	4"
10'-0"	#6	3.5"

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"

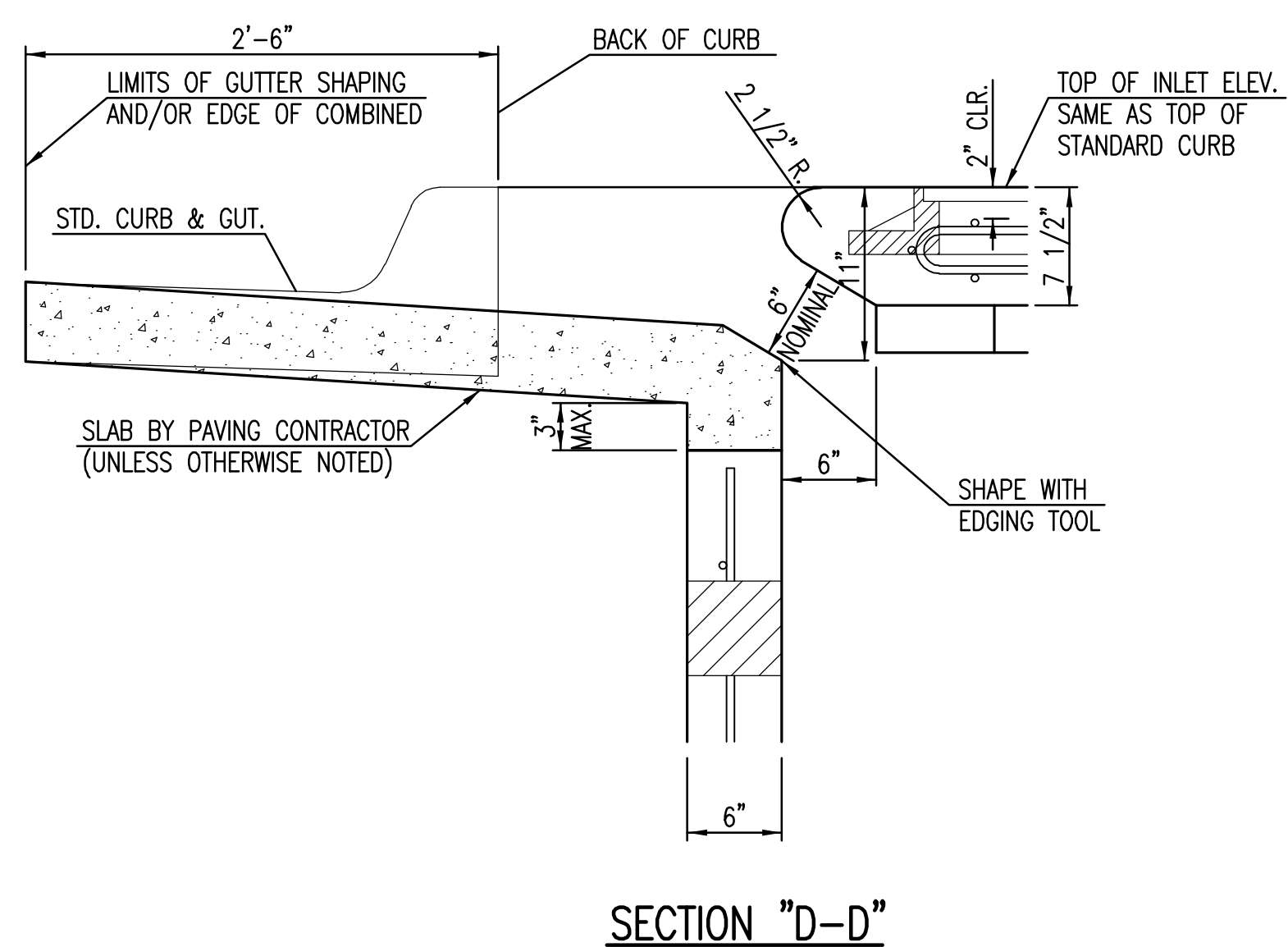
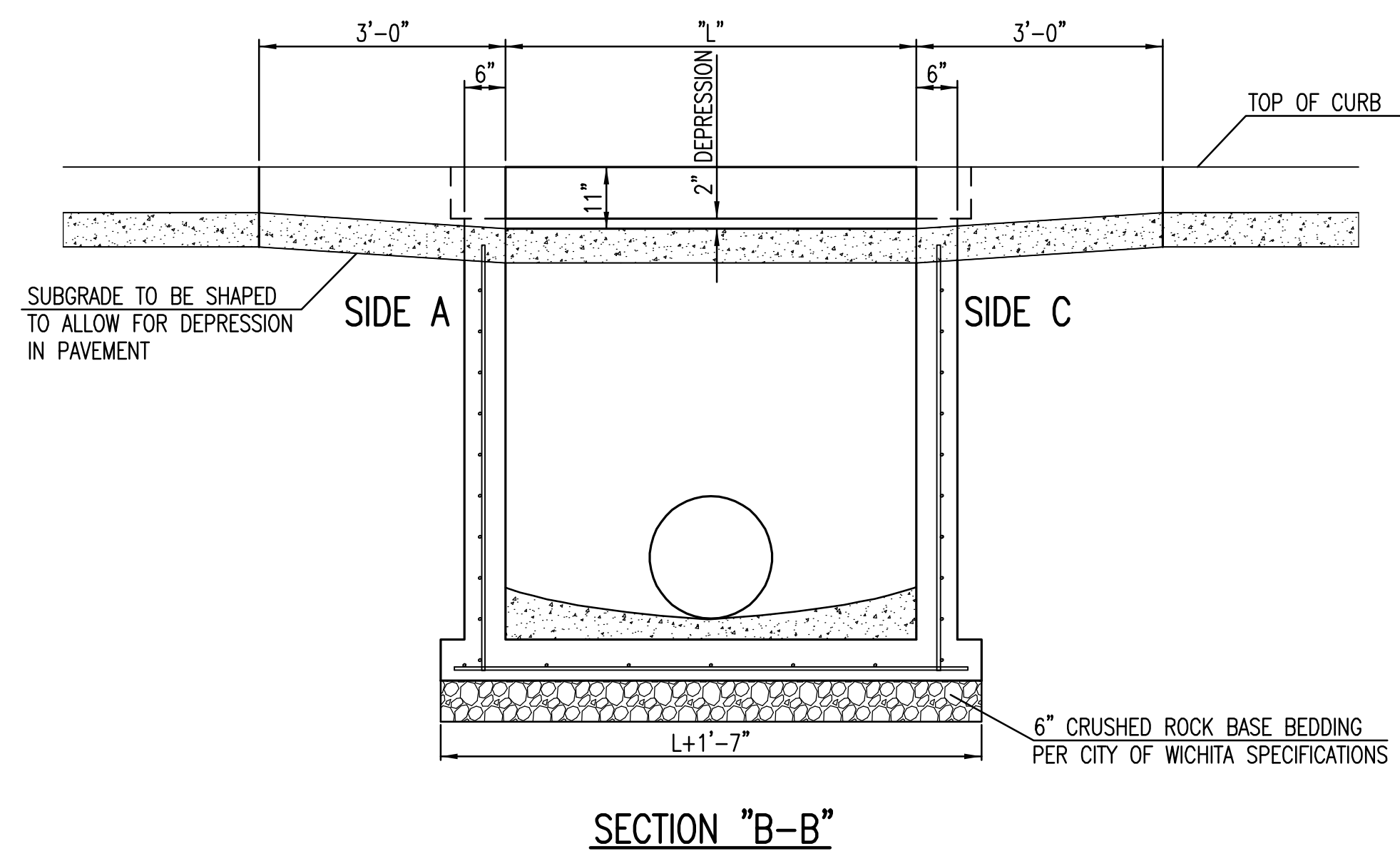
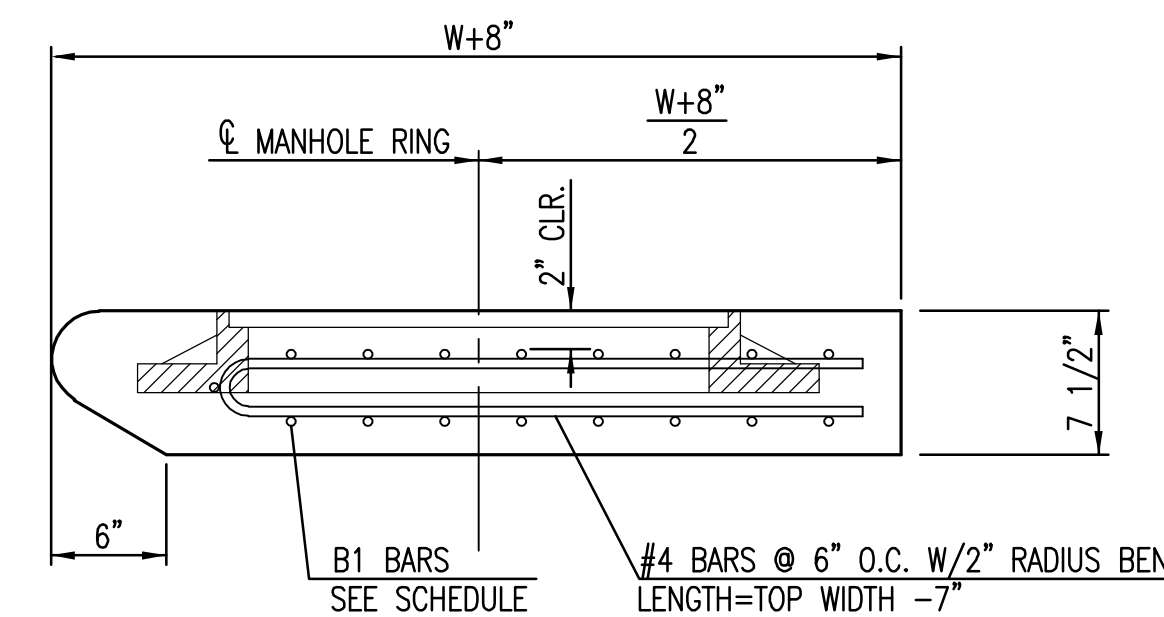
** FOR PIPES PERPENDICULAR TO INLET WALL

GENERAL NOTES

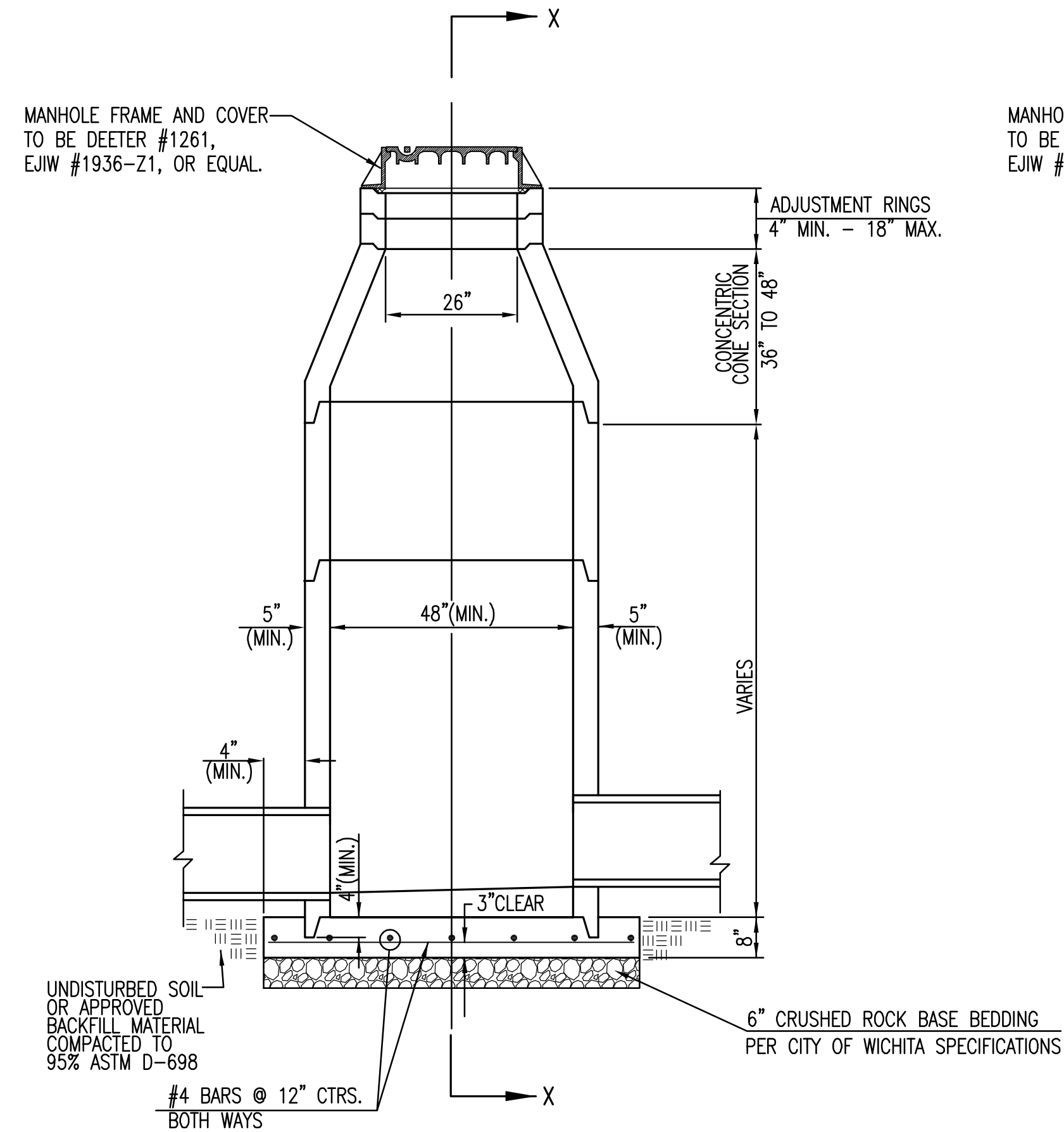
1. CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
2. CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 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 GROUDED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.



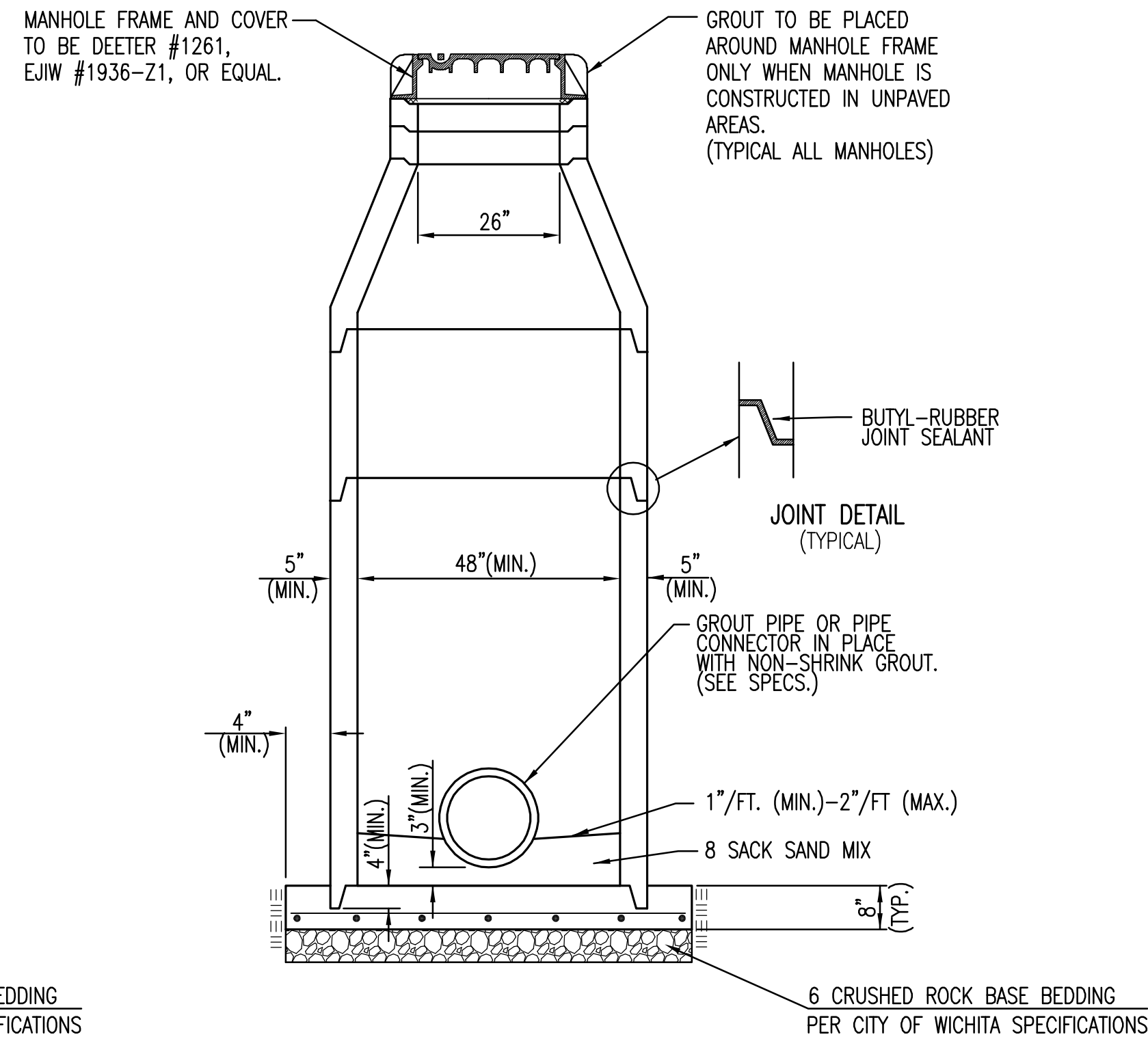
NOTES:
* SLOPE OF INLET TOP TO MATCH SIDEWALK OR PARKING SLOPES WITHIN LIMITS INDICATED.



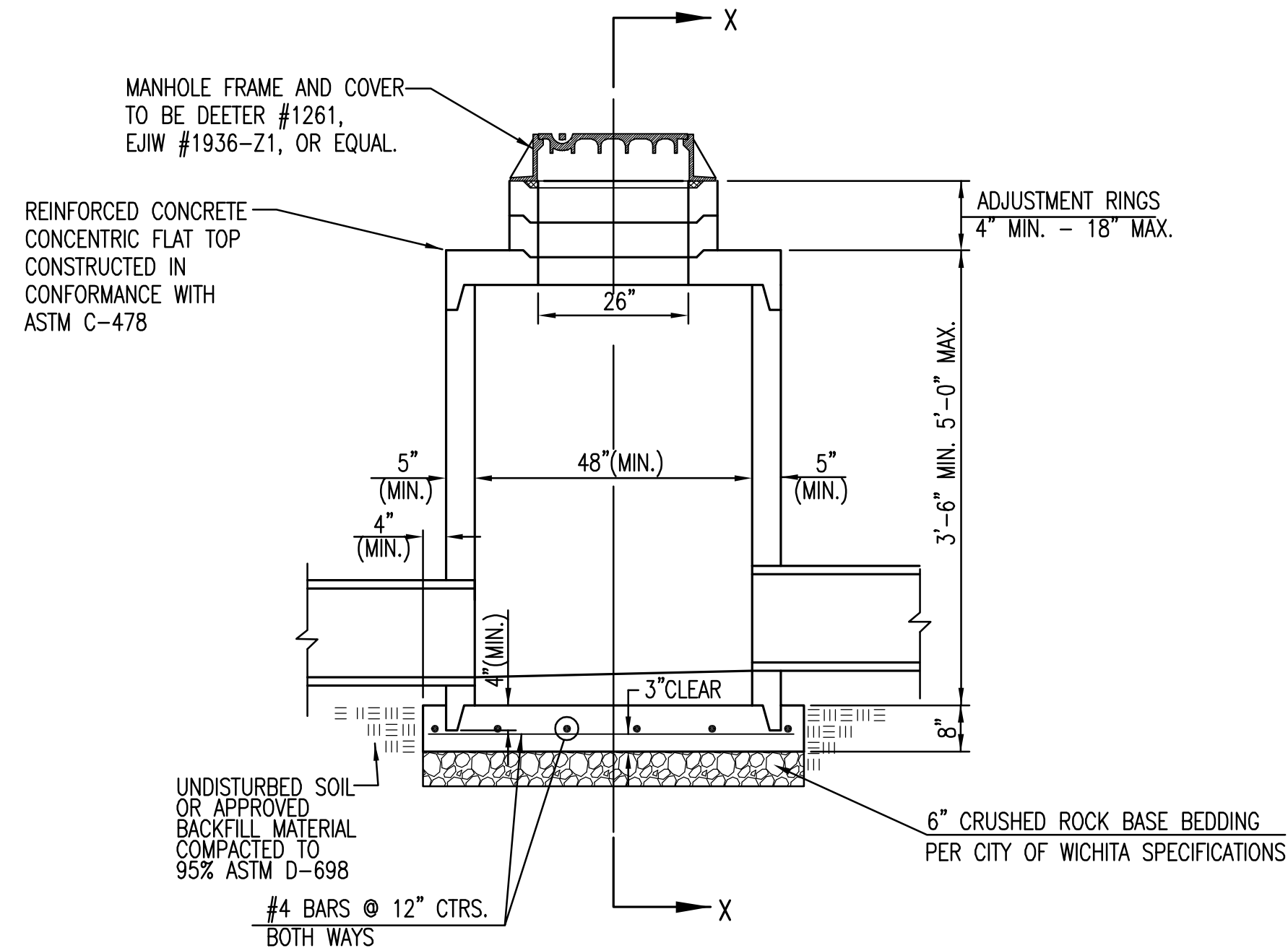
STANDARD TYPE 1A CURB INLET		
5'-0" OR 10'-0" OPENING		
CITY ENGINEER GARY L. JANZEN, P.E.		
PROJECT NUMBER 0163PPD	OCA NUMBER 607861	DATE 04/2013
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		DESIGN DRAWN SHEET 3 of 14



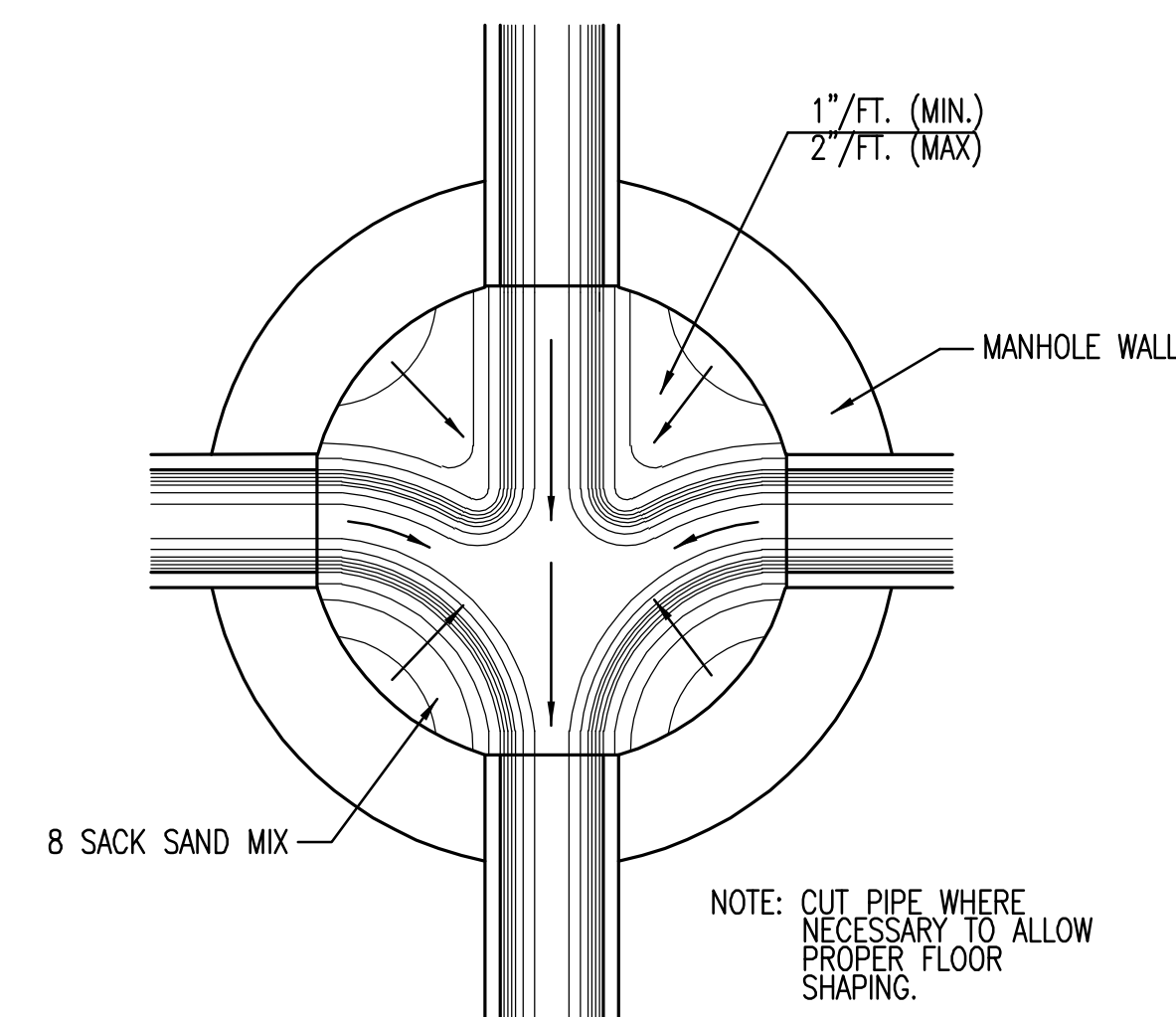
PRECAST STANDARD MANHOLE TYPE "A"



SECTION X-X (TYPICAL)



PRECAST SHALLOW MANHOLE TYPE "B"



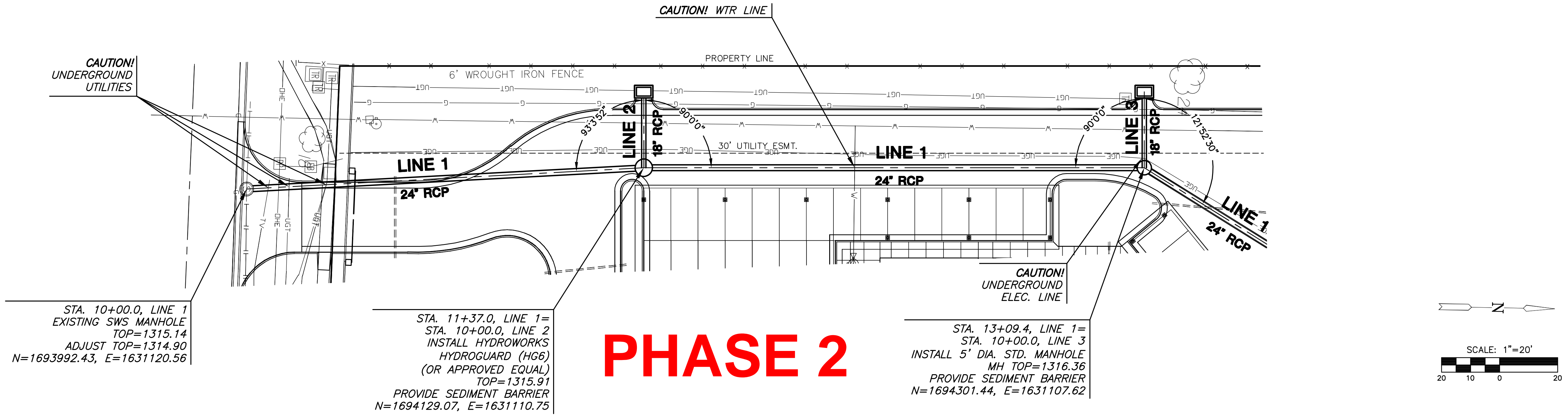
TYPICAL MANHOLE FLOOR SHAPING

GENERAL NOTES

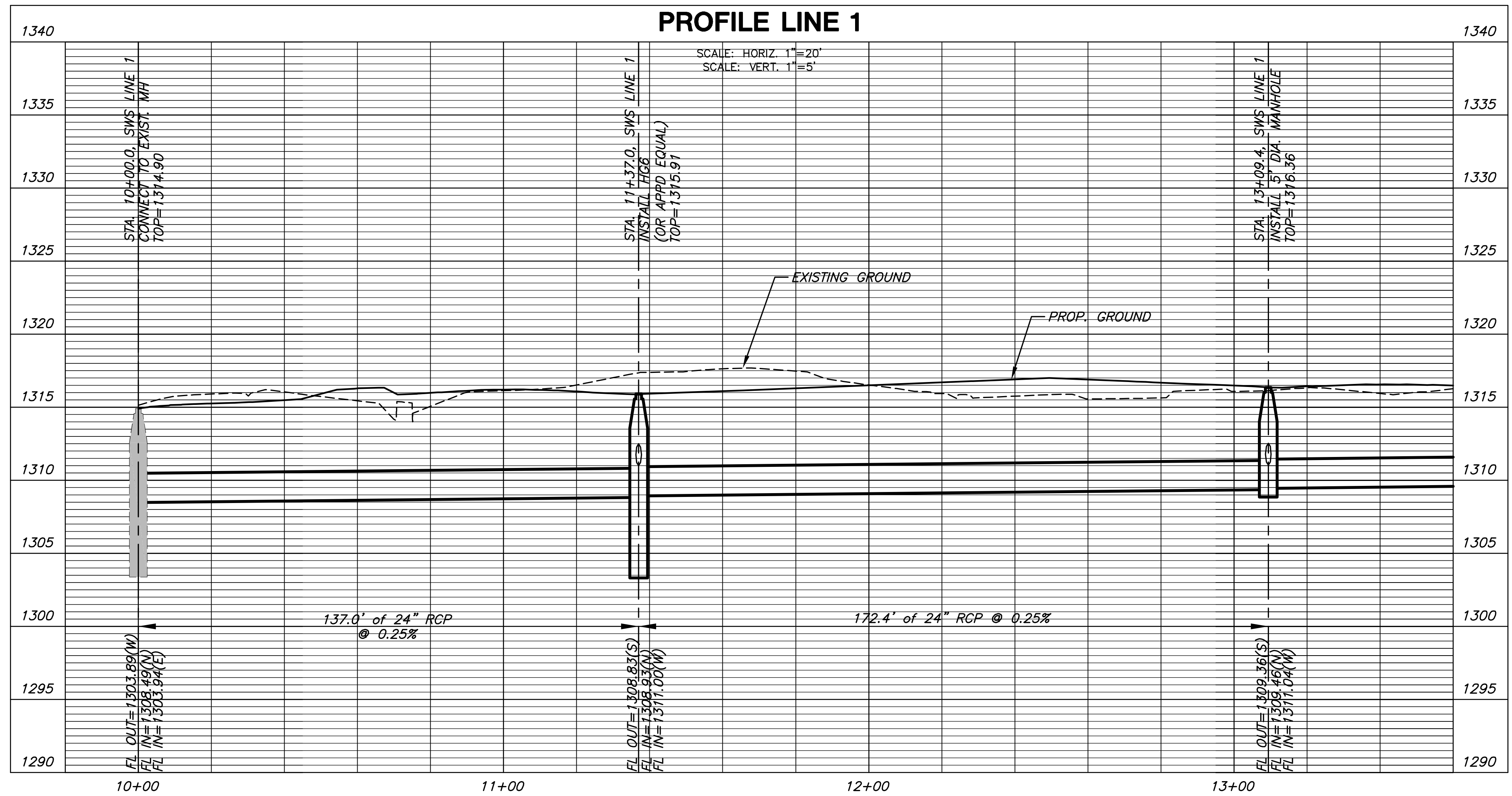
- IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
- STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
- ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
- 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.
- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C-478 AS MODIFIED BY THE SPECIFICATIONS.
- CONCRETE USED FOR MANHOLE CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
- PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO MANHOLE BASE.
- MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5 FOOT INSIDE DIAMETER (MIN.)
- 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.
- 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.
- THE ENDS OF ALL PIPES IN MANHOLES SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE MANHOLE WALL.
- 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.
- MANHOLE FRAME AND COVER TO BE DEETER #1261, EJIW #1936-21, OR APPROVED EQUAL, SEE SW-303.
- FOR FLAT GRATED INLET APPLICATION, GRATE TO BE DEETER #1933, EJIW #1205 MDI, OR APPROVED EQUAL.
- FOR BEEHIVE GRATE APPLICATION, GRATE TO BE DEETER #4495, EJIW #120545, OR APPROVED EQUAL.

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

<p>PRECAST CONCRETE MANHOLE (STORM SEWER)</p> <p>CITY ENGINEER GARY L. JANZEN, P.E.</p>		
PROJECT NUMBER 0163PPD	OCA NUMBER 607861	DATE 04/2013
<p>CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501</p>		<p>DESIGN DRAWN</p>
<p>SHEET 4 of 14</p>		



**PLAN LINE 1
PROFILE LINE 1**



**STORM WATER SEWER PLAN FOR
PRESBYTERIAN MANOR
WICHITA, KANSAS**

**SWS
LINE 1**
SHEET TITLE
0163PPD
PROJECT NUMBER

SPE / BKS / GJA
DESIGNED / DRAWN / CHECKED

ISSUED
April 2013
REVISED

SHEET NO.
5 of 14

J:\PROJECTS\2012\1201010451_GREYSTONE - PRESBYTERIAN MANORS\5-CIVIL\CAD\SWS\12451_SWS LINE 1.DWG

PLOTTED: Thursday, April 18, 2013 @ 02:48PM

PC:WKS: BPS:WKS

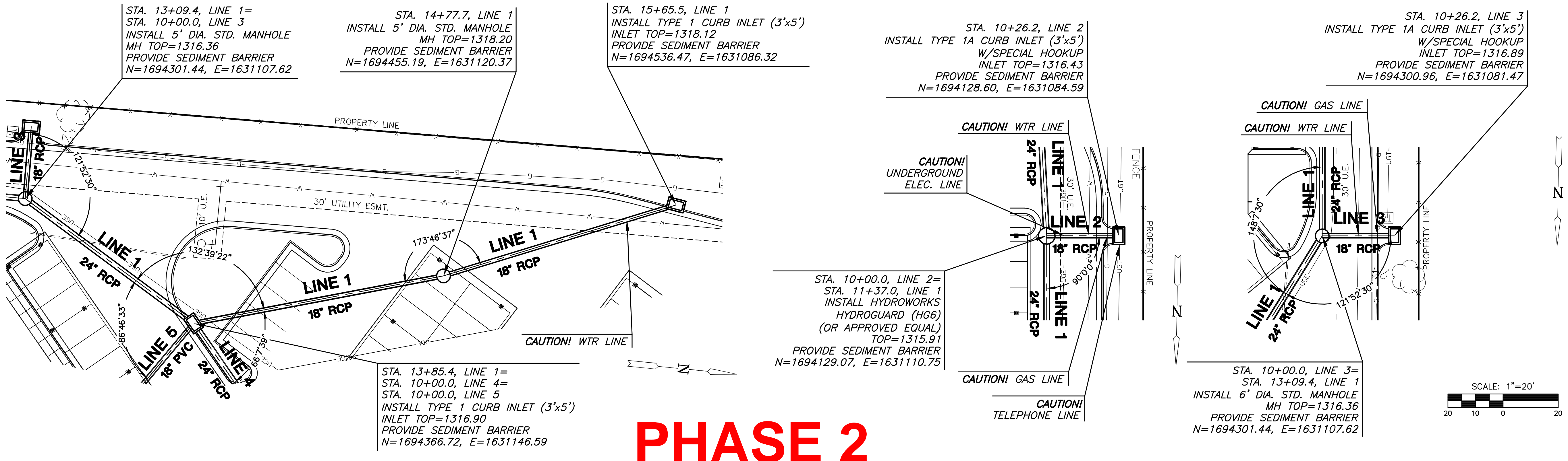
STORM WATER SEWER PLAN FOR
PRESBYTERIAN MANOR
WICHITA, KANSAS

SWS
LINES 1, 2, & 3
SHEET TITLE
0163PPD
PROJECT NUMBER

SPE / **BKS** / **GJA**
DESIGNED DRAWN CHECKED

ISSUED
April 2013
REVISED

SHEET NO.
6 of 14



PHASE 2

PLAN LINE 1 (Cont.)
PROFILE LINE 1 (Cont.)

PLAN LINE 2
PROFILE LINE 2

PLAN LINE 3
PROFILE LINE 3

Station	Profile Line 1 (Cont.)	Profile Line 2	Profile Line 3
1340			
1335			
1330			
1325			
1320			
1315			
1310			
1305			
1300			
1295			
1290			

PLOTTED: Thursday, April 18, 2013 @ 02:51PM

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STA. 11+42.7, LINE 4=
 STA. 10+00.0, LINE 6=
 STA. 10+00.0, LINE 7
 INSTALL TYPE 1 CURB INLET (3'x5')
 INLET TOP=1317.08
 PROVIDE SEDIMENT BARRIER
 N=1694459.19, E=1631255.33

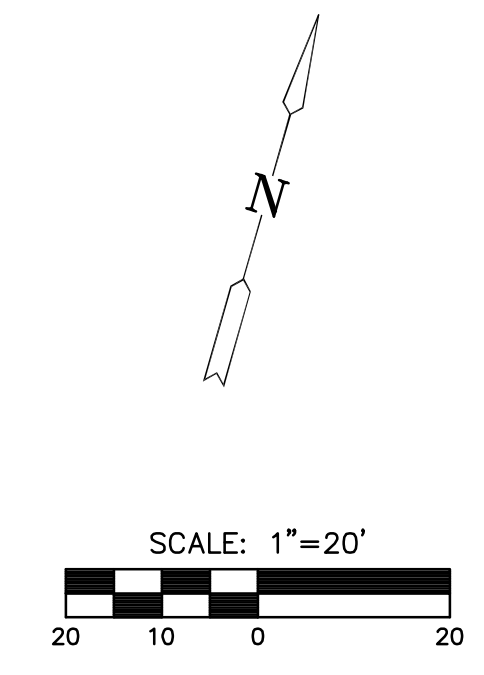
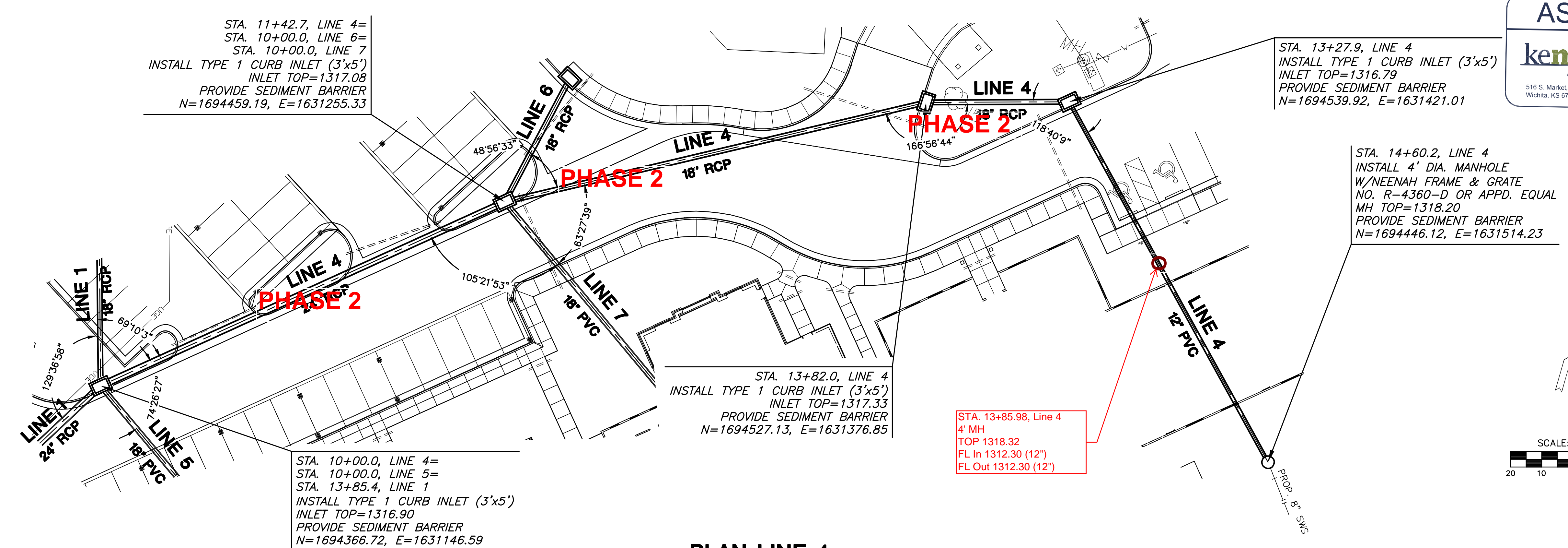
STA. 13+27.9, LINE 4
 INSTALL TYPE 1 CURB INLET (3'x5')
 INLET TOP=1316.79
 PROVIDE SEDIMENT BARRIER
 N=1694539.92, E=1631421.01

STA. 14+60.2, LINE 4
 INSTALL 4' DIA. MANHOLE
 W/NEENAH FRAME & GRATE
 NO. R-4360-D OR APPD. EQUAL
 MH TOP=1318.20
 PROVIDE SEDIMENT BARRIER
 N=1694446.12, E=1631514.23

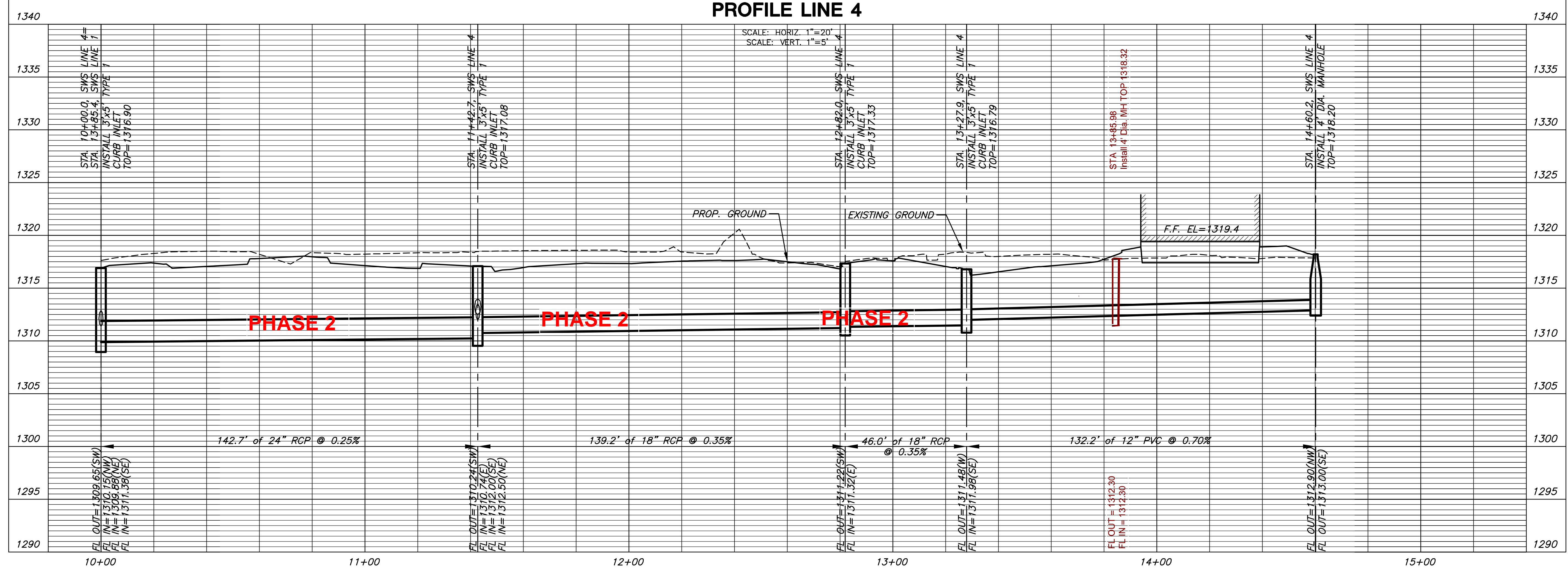
STA. 13+82.0, LINE 4
 INSTALL TYPE 1 CURB INLET (3'x5')
 INLET TOP=1317.33
 PROVIDE SEDIMENT BARRIER
 N=1694527.13, E=1631376.85

STA. 13+85.98, Line 4
 4' MH
 TOP 1318.32
 FL In 1312.30 (12")
 FL Out 1312.30 (12")

STA. 10+00.0, LINE 4=
 STA. 10+00.0, LINE 5=
 STA. 13+85.4, LINE 1
 INSTALL TYPE 1 CURB INLET (3'x5')
 INLET TOP=1316.90
 PROVIDE SEDIMENT BARRIER
 N=1694366.72, E=1631146.59



**PLAN LINE 4
 PROFILE LINE 4**



**STORM WATER SEWER PLAN FOR
 PRESBYTERIAN MANOR
 WICHITA, KANSAS**

**SWS
 LINE 4**
 SHEET TITLE
 0163PPD
 PROJECT NUMBER

SPE | BKS | GJA
 DESIGNED | DRAWN | CHECKED

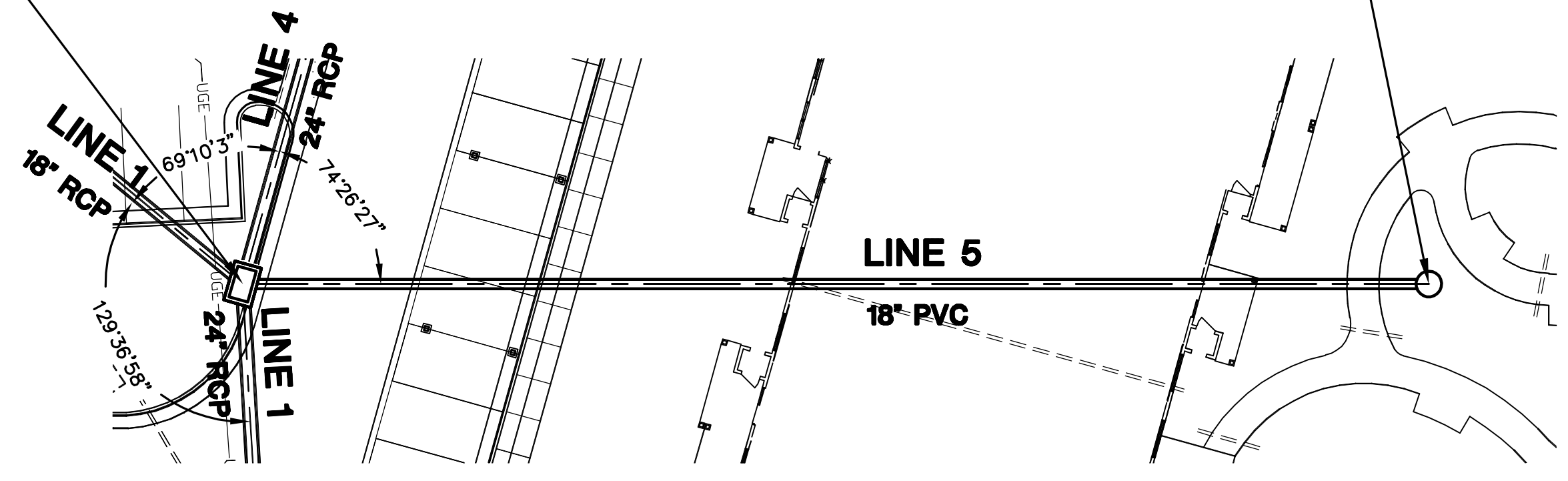
ISSUED
 April 2013
 REVISED

SHEET NO.
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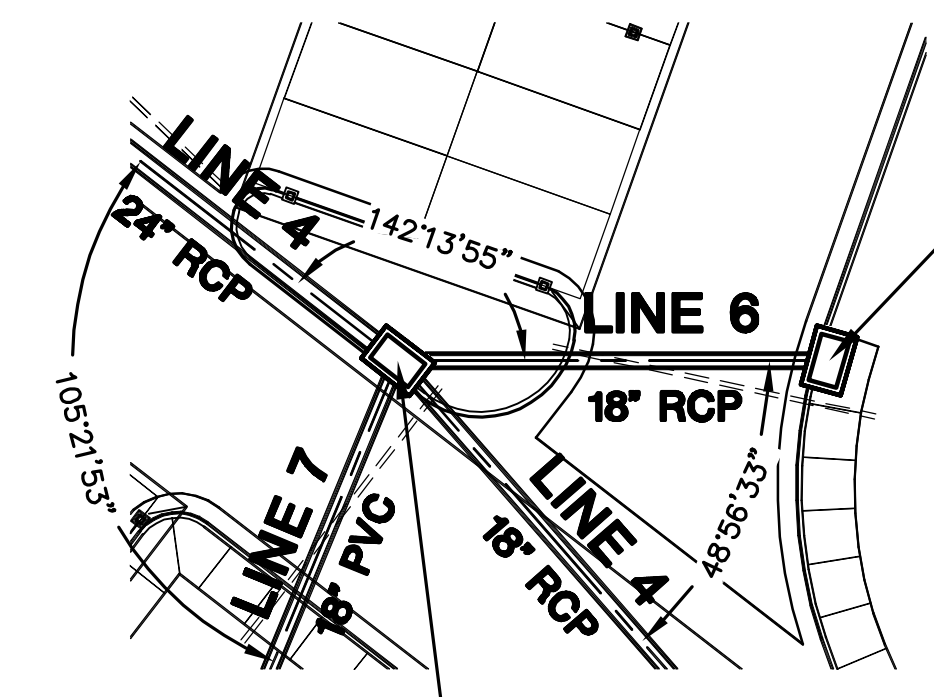
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STA. 10+00.0, LINE 5=
STA. 10+00.0, LINE 4=
STA. 13+85.4, LINE 1
INSTALL TYPE 1 CURB INLET (3'x5')
INLET TOP=1316.90
PROVIDE SEDIMENT BARRIER
N=1694366.72, E=1631146.59

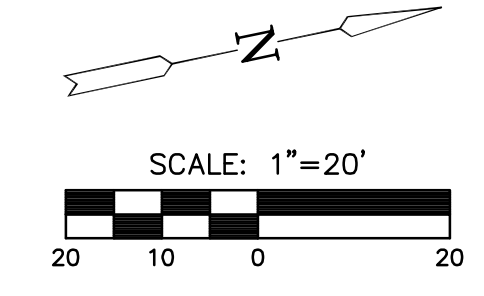
STA. 11+85.2, LINE 5
INSTALL 4' DIA. MANHOLE
W/NEENAH FRAME & GRATE
NO. R-4360-D OR APPD. EQUAL
MH TOP=1318.20
PROVIDE SEDIMENT BARRIER
N=1694262.97, E=1631300.06



STA. 10+44.9, LINE 6
INSTALL TYPE 1 CURB INLET (3'x5')
INLET TOP=1317.41
PROVIDE SEDIMENT BARRIER
N=1694503.13, E=1631264.55



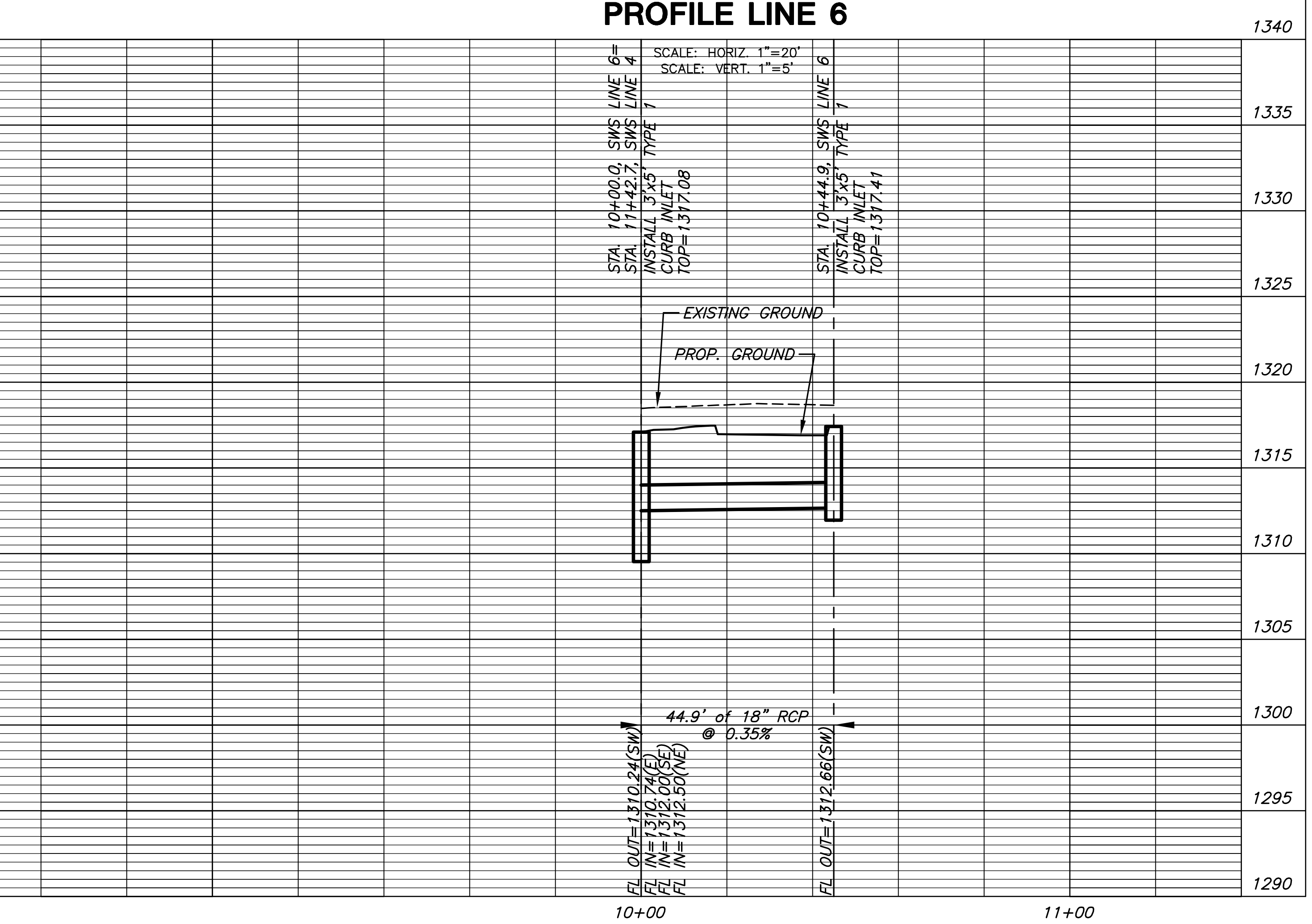
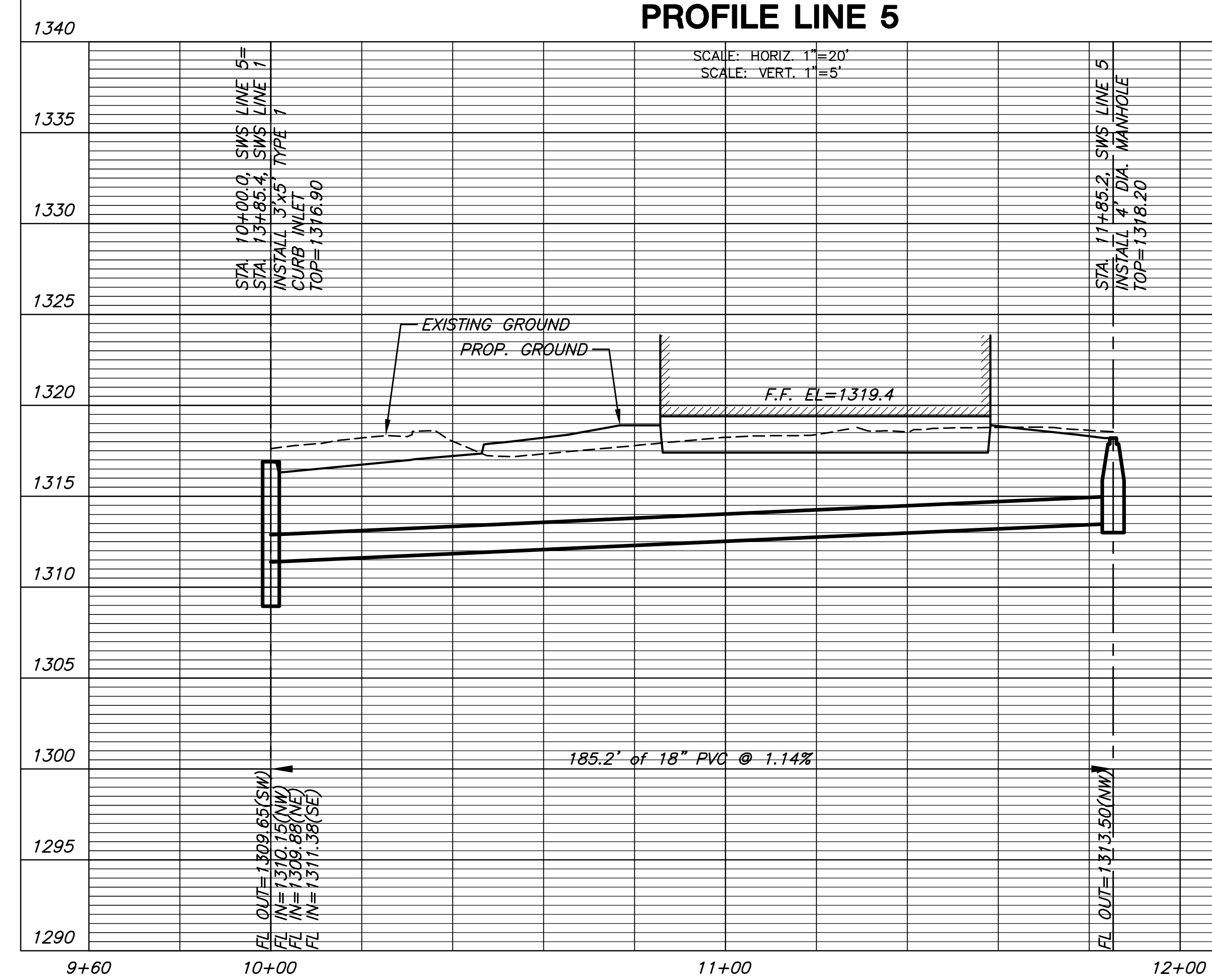
STA. 10+00.0, LINE 6=
STA. 11+42.7, LINE 4=
STA. 10+00.0, LINE 7
INSTALL TYPE 1 CURB INLET (3'x5')
INLET TOP=1317.08
PROVIDE SEDIMENT BARRIER
N=1694459.19, E=1631255.33



PHASE 2

**PLAN LINE 5
PROFILE LINE 5**

**PLAN LINE 6
PROFILE LINE 6**



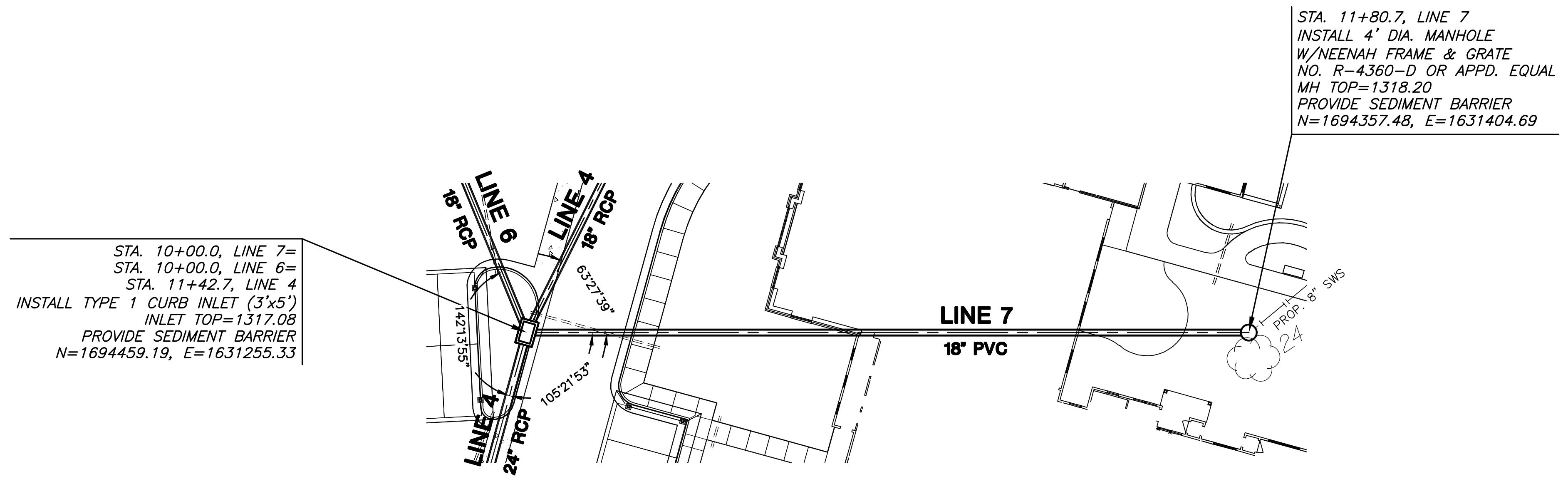
STORM WATER SEWER PLAN FOR
PRESBYTERIAN MANOR
WICHITA, KANSAS

**SWS
LINES 5 & 6**
SHEET TITLE
0163PPD
PROJECT NUMBER

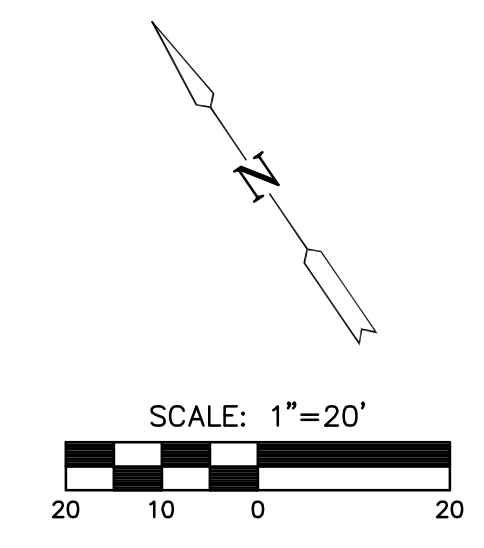
SPE | BKS | GJA
DESIGNED | DRAWN | CHECKED

ISSUED
April 2013
REVISED

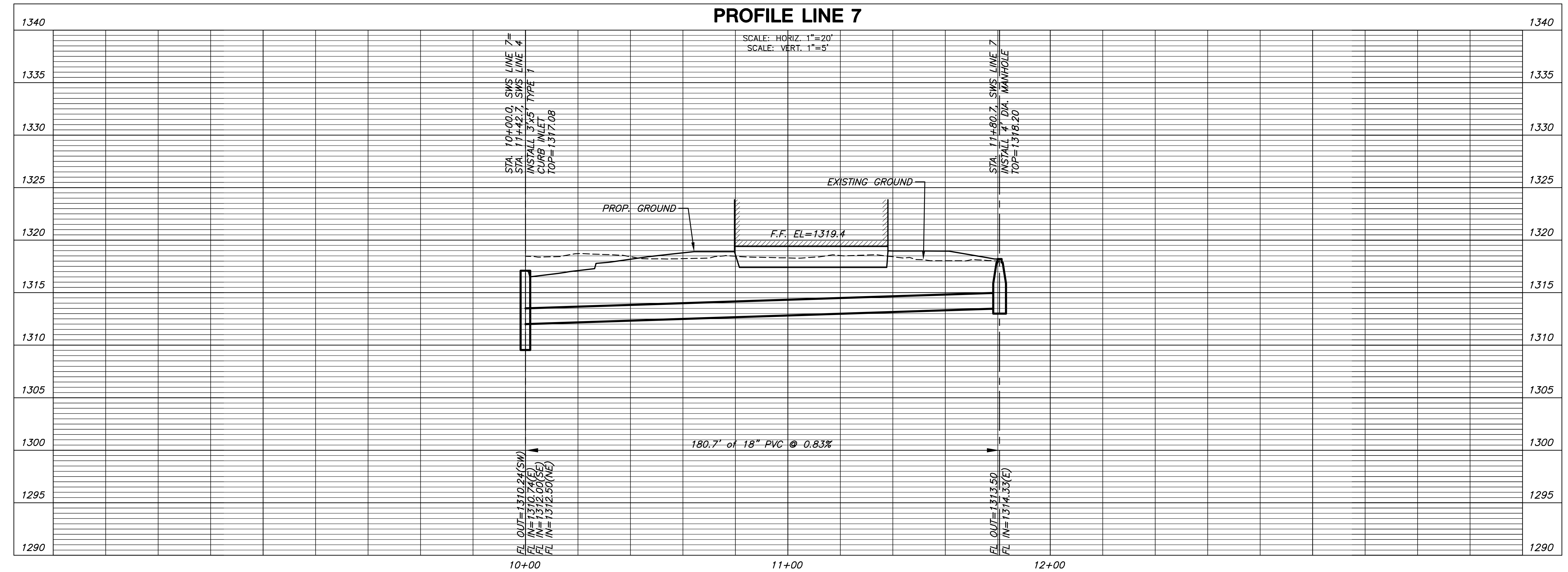
SHEET NO.
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PHASE 2



PLAN LINE 7
PROFILE LINE 7



STORM WATER SEWER PLAN FOR
PRESBYTERIAN MANOR
WICHITA, KANSAS

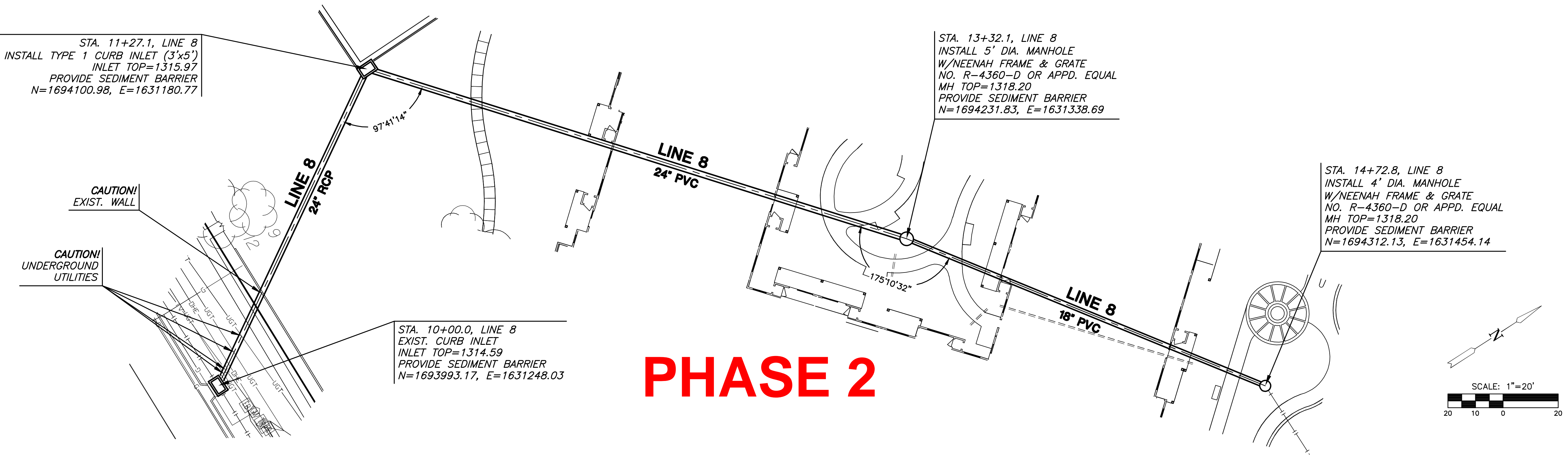
SWS LINE 7
SHEET TITLE
0163PPD
PROJECT NUMBER

SPE | BKS | GJA
DESIGNED | DRAWN | CHECKED

ISSUED
April 2013
REVISED

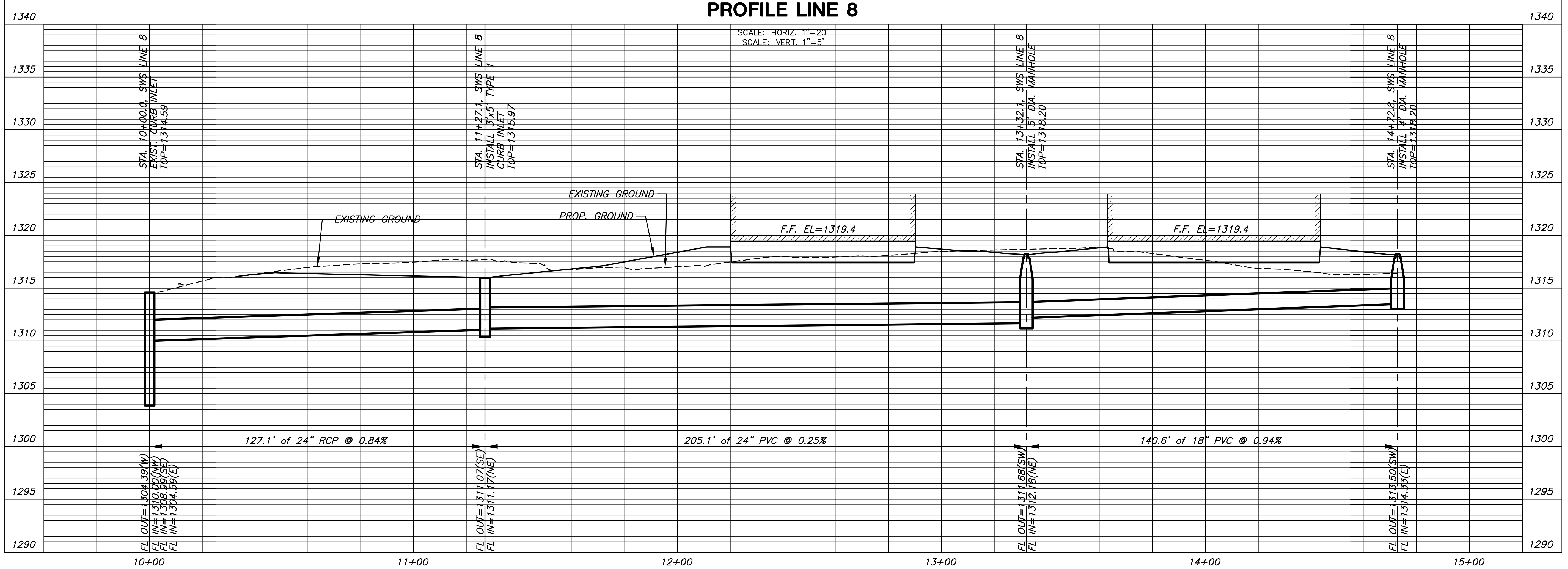
SHEET NO.
9 of 14

PLOTTED: Thursday, April 18, 2013 @ 02:56PM



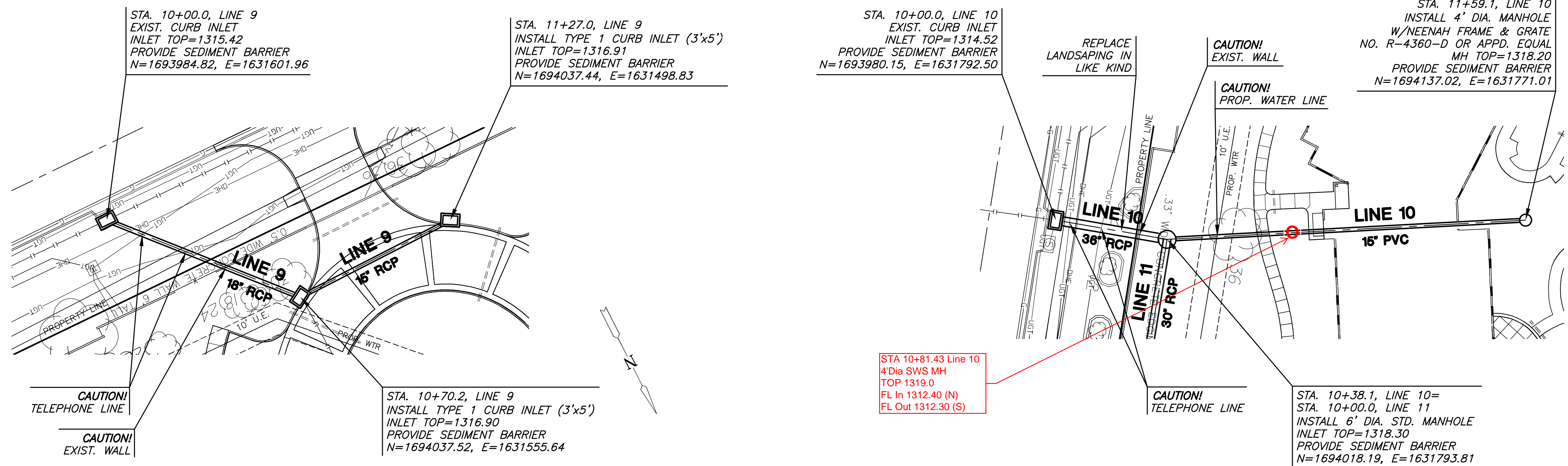
PHASE 2

**PLAN LINE 8
PROFILE LINE 8**



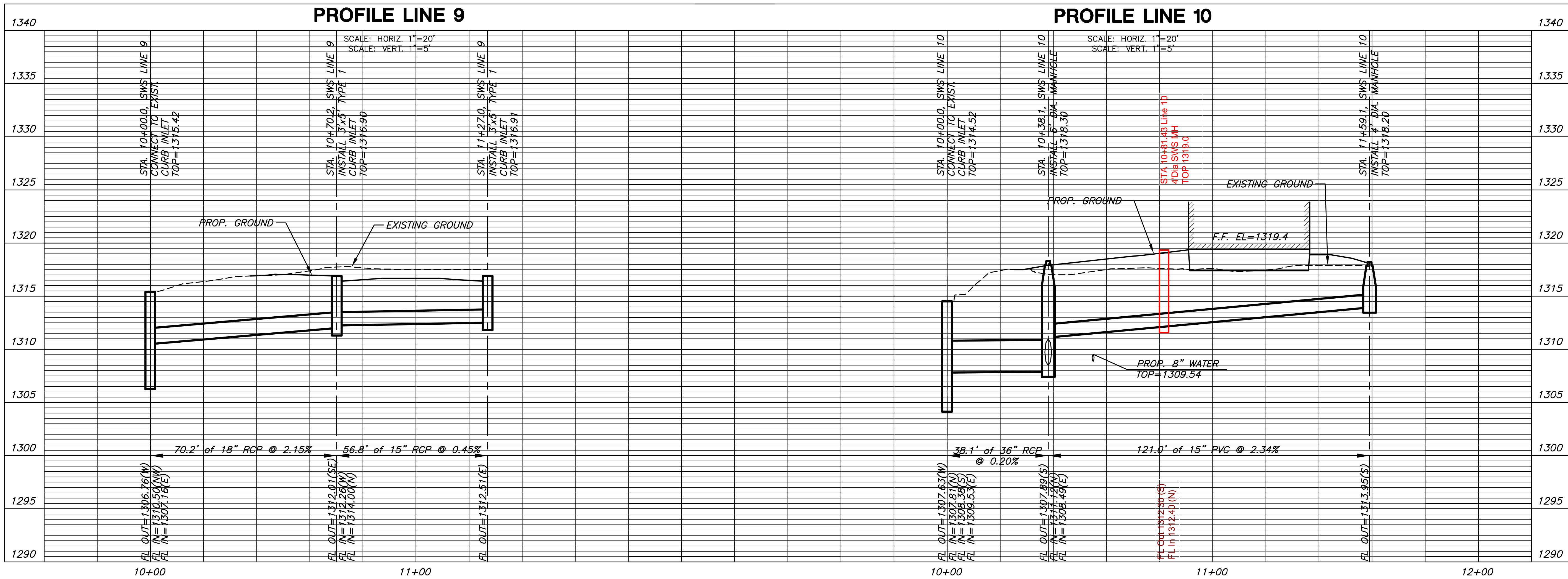
PLOTTED: Thursday, April 18, 2013 @ 02:57PM

J:\PROJECTS\2012\1201010451_GREYSTONE - PRESBYTERIAN MANORS\5-CIVIL\CAD\SWS\12451_SWS LINE 8.DWG



PLAN LINE 9
PROFILE LINE 9

PLAN LINE 10
PROFILE LINE 10



STORM WATER SEWER PLAN FOR
PRESBYTERIAN MANOR
WICHITA, KANSAS

SWS LINES 9 & 10
SHEET TITLE
0163PPD
PROJECT NUMBER

SPE | BKS | GJA
DESIGNED | DRAWN | CHECKED

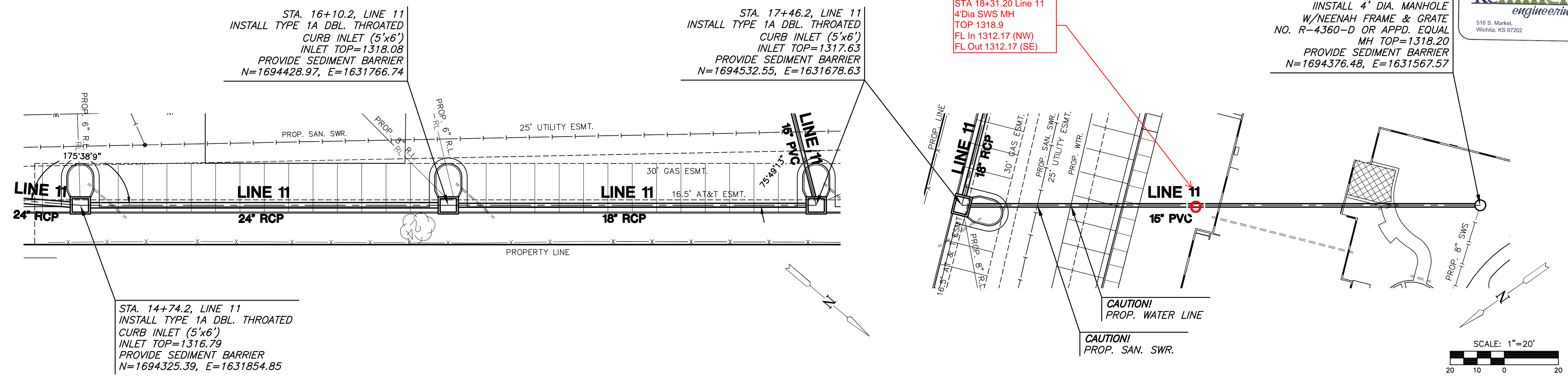
ISSUED
April 2013
REVISED

SHEET NO.
11 of 14

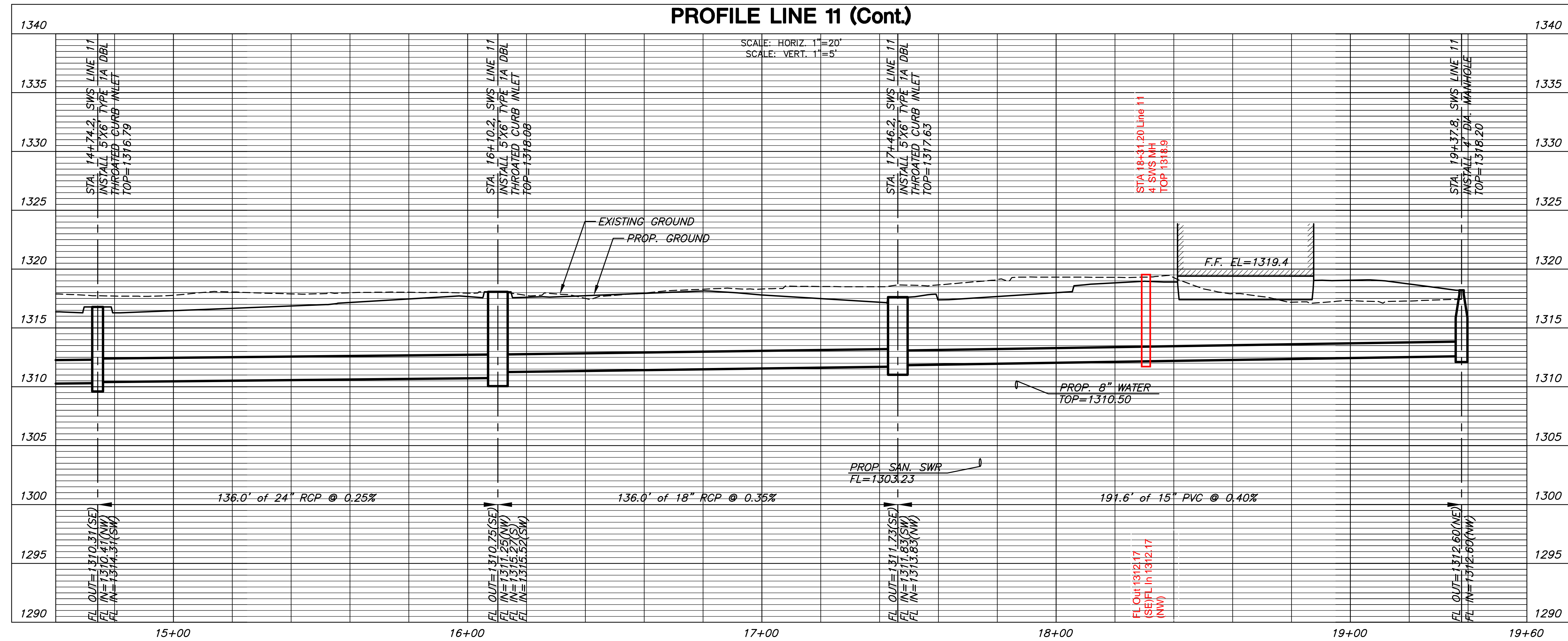
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PLOTTED: Thursday, April 18, 2013 @ 02:58PM

PC: 11/18/13



PLAN LINE 11 (Cont.)
PROFILE LINE 11 (Cont.)



STORM WATER SEWER PLAN FOR
PRESBYTERIAN MANOR
 WICHITA, KANSAS

SWS LINE 11

SHEET TITLE
 0163PPD
 PROJECT NUMBER

SPE / BKS / GJA
 DESIGNED / DRAWN / CHECKED

ISSUED
 April 2013

REVISED

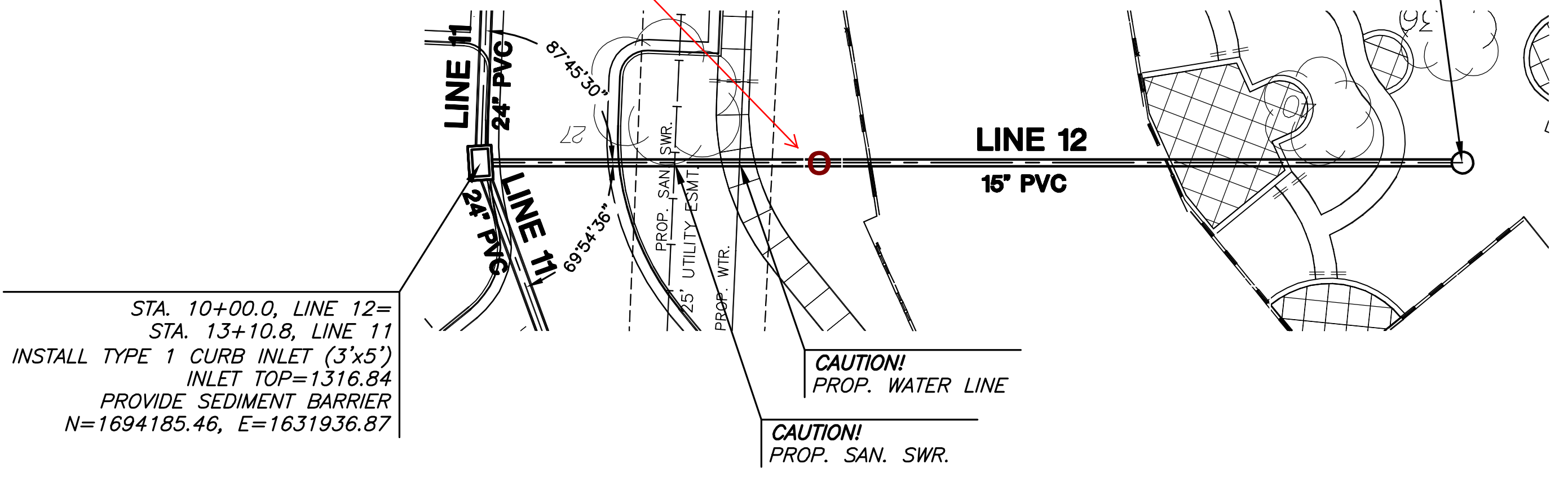
SHEET NO.
 13 of 14

J:\PROJECTS\2012\1201010451_GREYSTONE - PRESBYTERIAN MANORS\5-CIVIL\CAD\SWS\12451_SWS LINE 11 CONT.DWG

PLOTTED: Thursday, April 18, 2013 @ 03:03PM

STA 10+66.00
4' Dia' SWS MH
TOP 1318.7
FL In 1313.38 (W)
FL Out 1313.36 (E)

STA. 11+81.4, LINE 12
INSTALL 4' DIA. MANHOLE
W/NEENAH FRAME & GRATE
NO. R-4360-D OR APPD. EQUAL
MH TOP=1318.20
PROVIDE SEDIMENT BARRIER
N=1694182.00, E=1631755.55



AS BUILTS

kemiller
engineering

516 S. Market,
Wichita, KS 67202

(316)264-0242

MKEC
ENGINEERING
CONSULTANTS, INC.

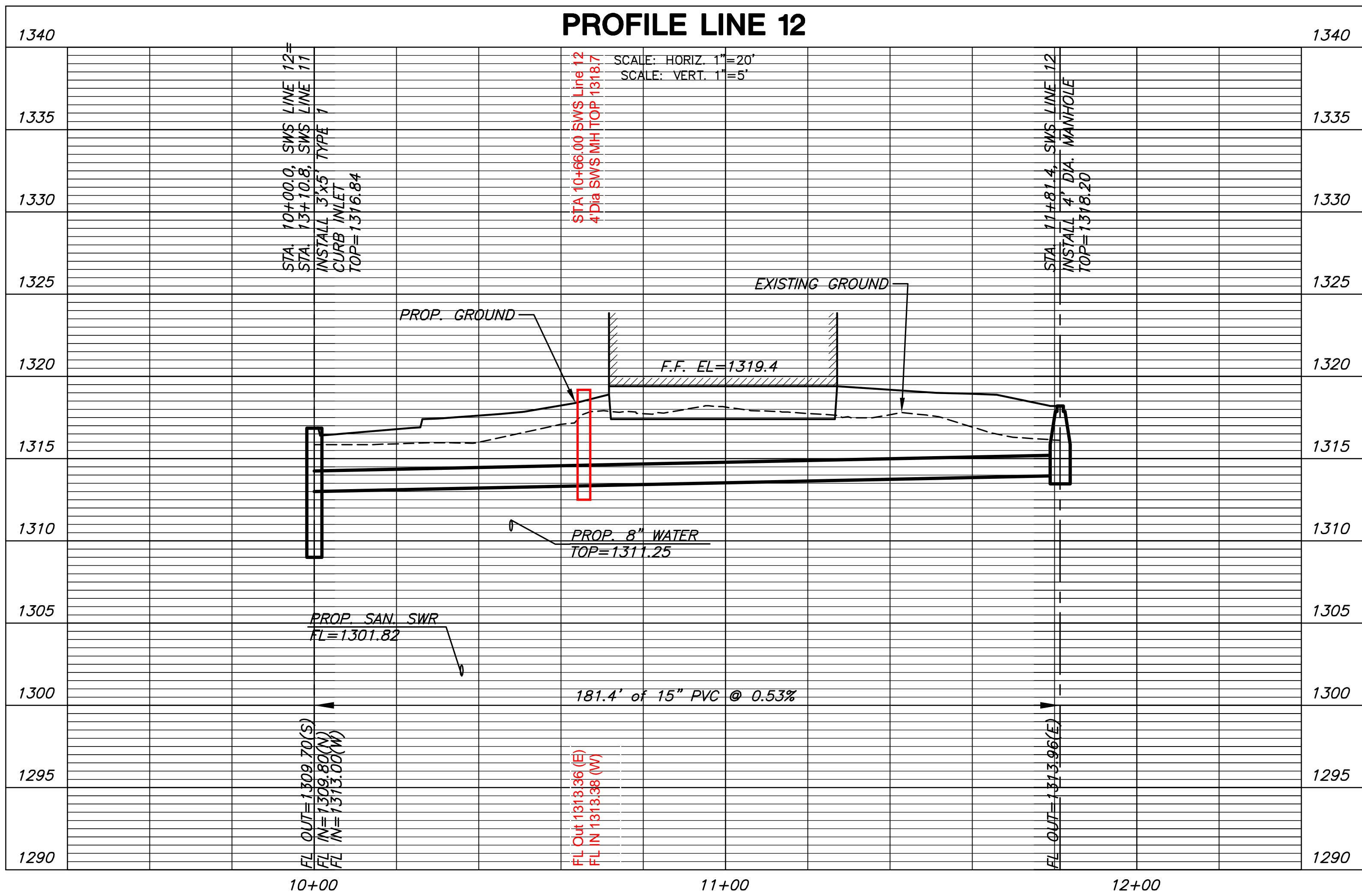
411 N. WEBB ROAD
WICHITA, K.S. 67206
316-684-9600

STA. 10+00.0, LINE 12=
STA. 13+10.8, LINE 11
INSTALL TYPE 1 CURB INLET (3'x5')
INLET TOP=1316.84
PROVIDE SEDIMENT BARRIER
N=1694185.46, E=1631936.87

CAUTION!
PROP. WATER LINE

CAUTION!
PROP. SAN. SWR.

PLAN LINE 12
PROFILE LINE 12



STORM WATER SEWER PLAN FOR
PRESBYTERIAN MANOR
WICHITA, KANSAS

SWS
LINE 12

SHEET TITLE

0163PPD

PROJECT NUMBER

SPE / **BKS** / **GJA**

DESIGNED DRAWN CHECKED

ISSUED

April 2013

REVISED

SHEET NO.

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