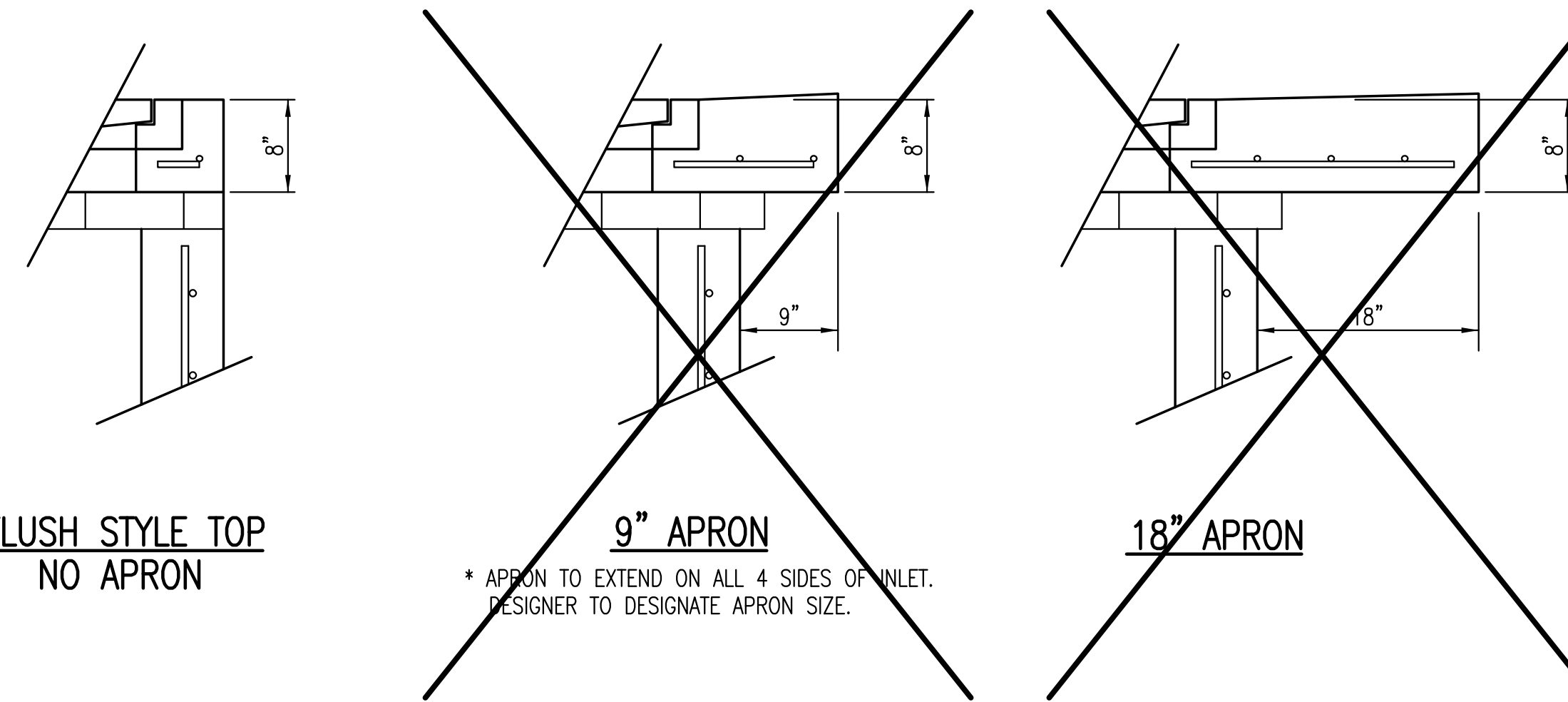


TOP VIEW



FLUSH STYLE TOP
NO APRON

9" APRON

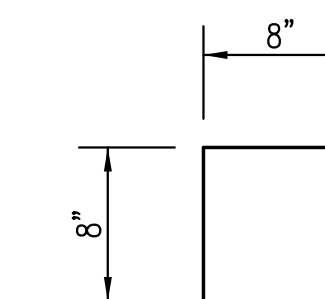
18" APRON

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

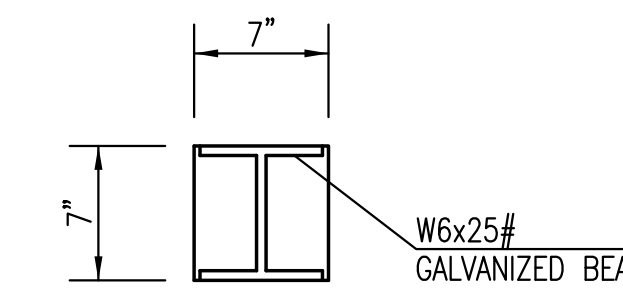
W=4'-4" and L=4' for DOUBLE DROP INLET

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



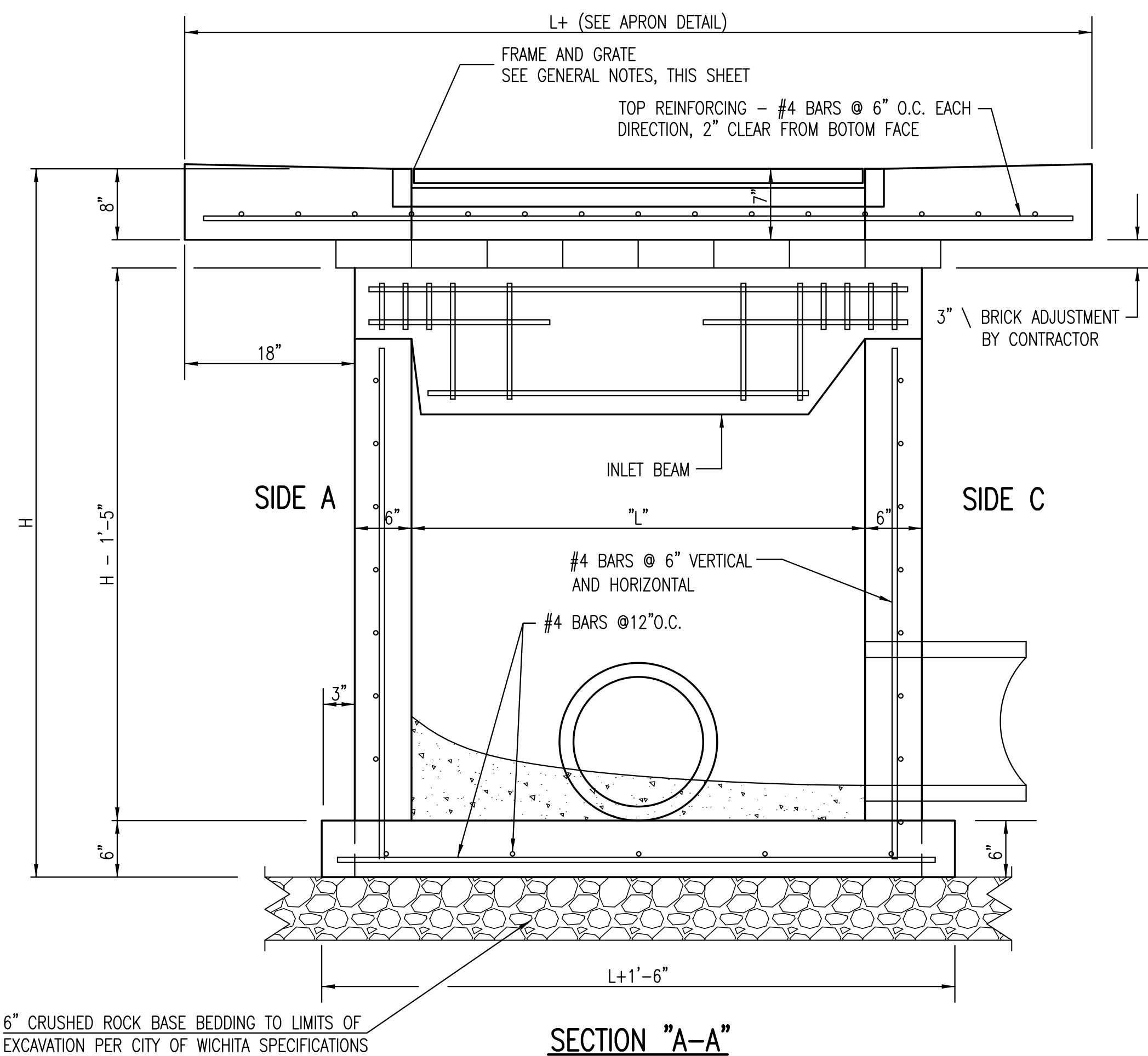
CONCRETE BEAM POCKET



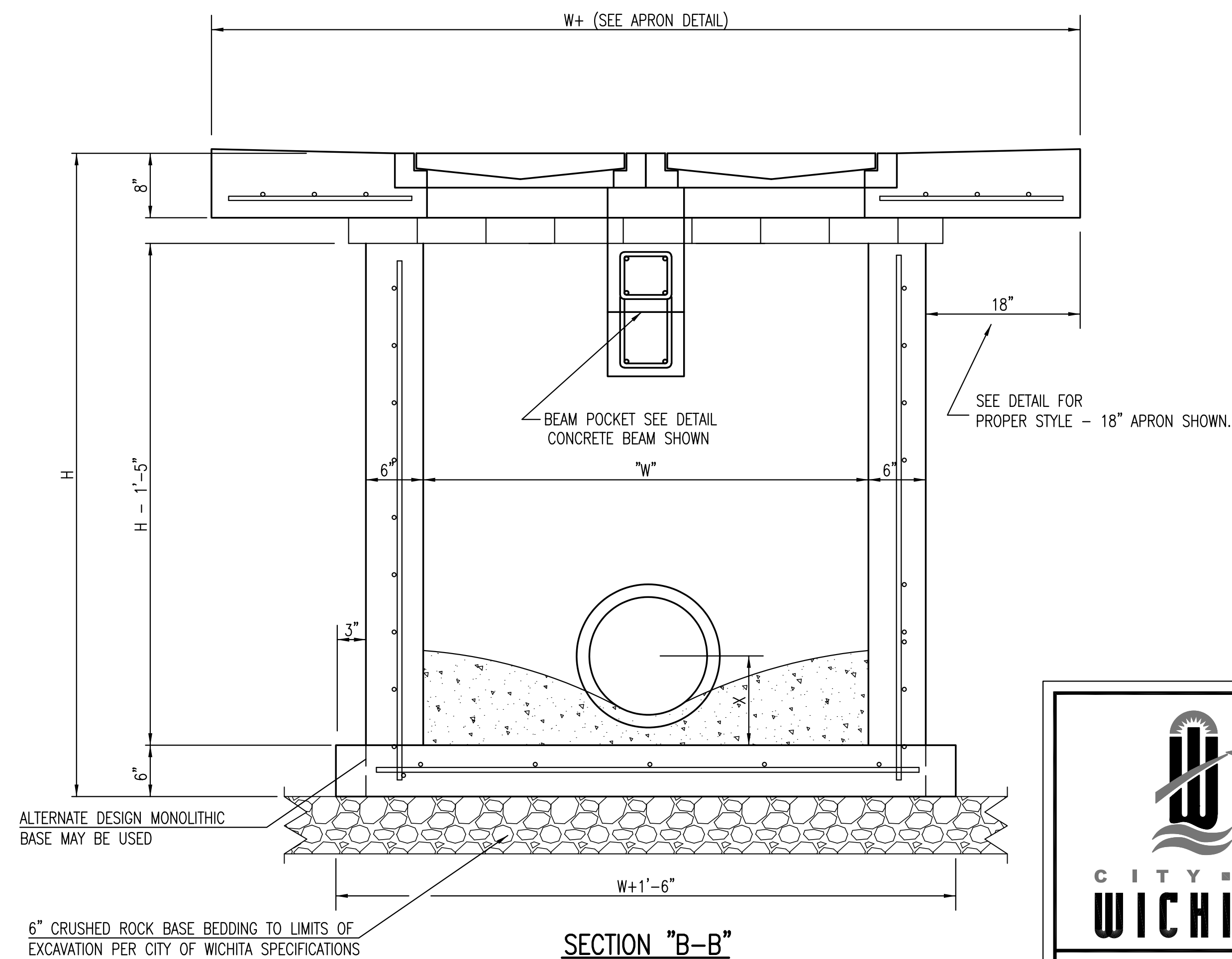
GALV. STEEL BEAM POCKET

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"

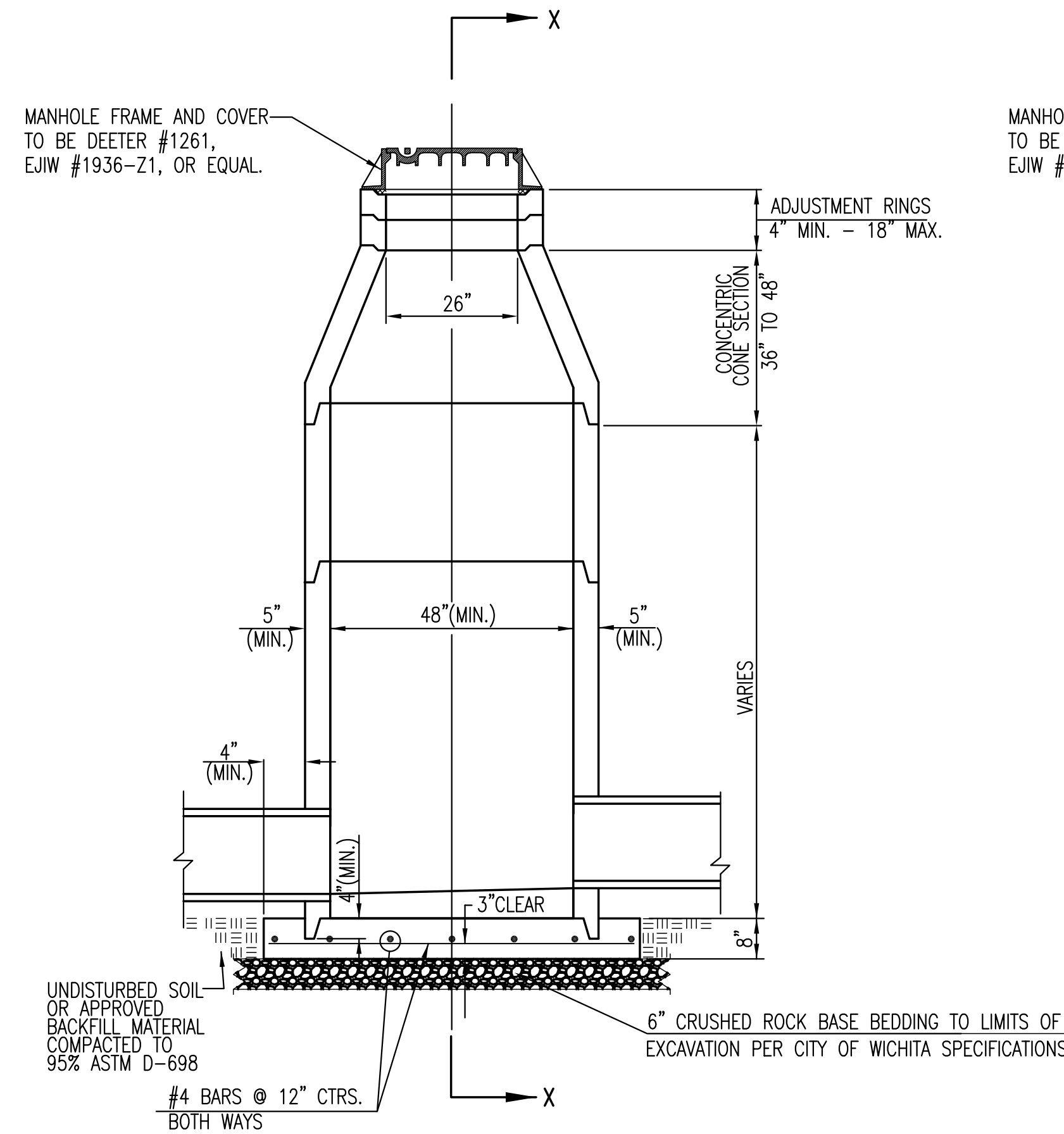


SECTION "B-B"

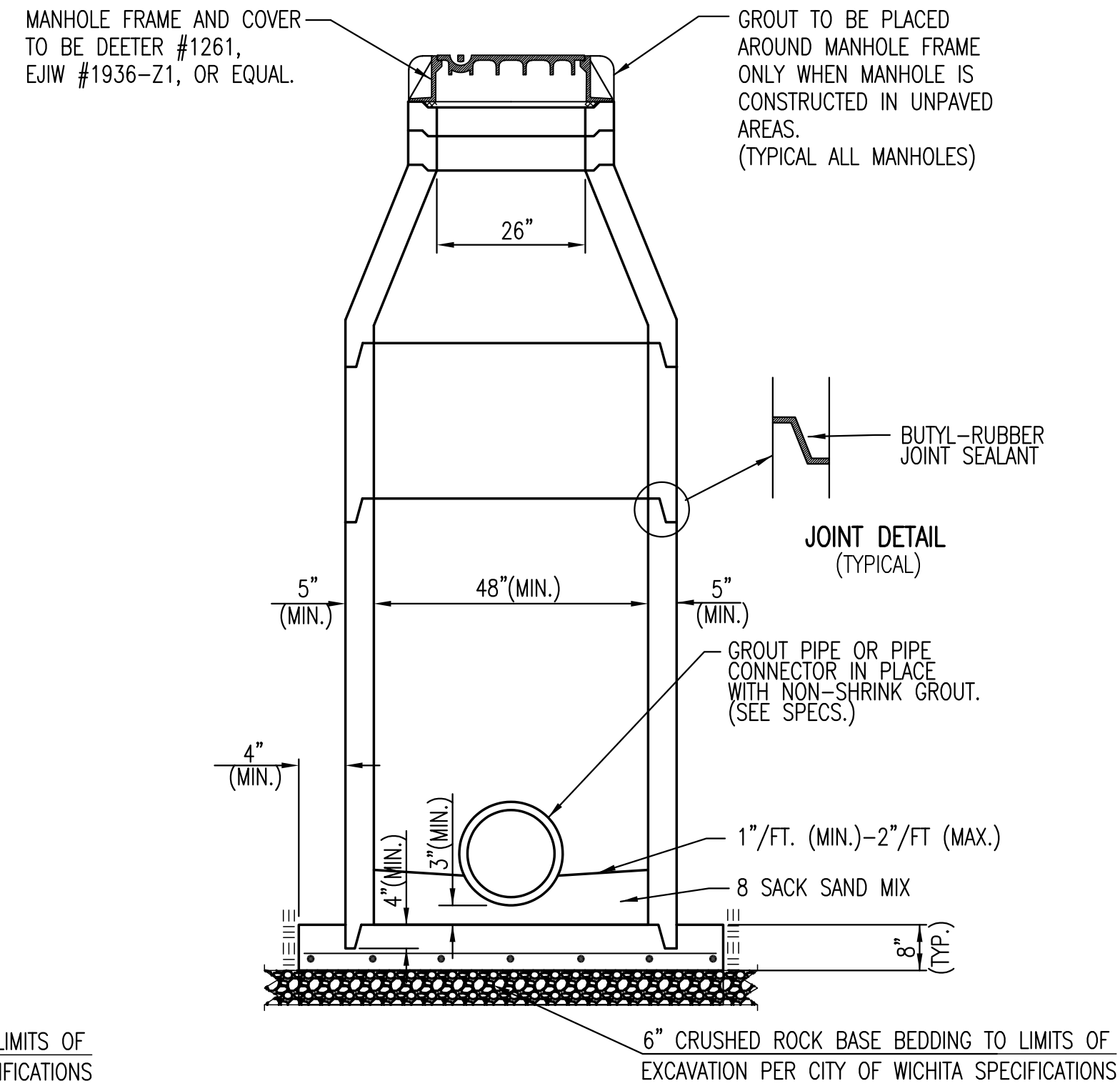
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Plot Scale 1:1 08-24-2018 10:37:16 AM by BRYAN SMITH
J:\Projects\2017\701010143_Lange_Steepie Bay_17143_CAD\SHHS\05_Civil\Site\Site\Civil\PPD\SW-202-Double-Drop Inlet

 CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION			REVISED: MARCH 2015 DOUBLE DOUBLE DROP INLET WITH BEAM CITY ENGINEER GARY JANZEN, P.E..		
PROJECT NUMBER	OCA NUMBER	DATE			
0539	133119	AUG. 2018			
CITY ENGINEER'S OFFICE			SHEET		
CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501			3 OF 17		

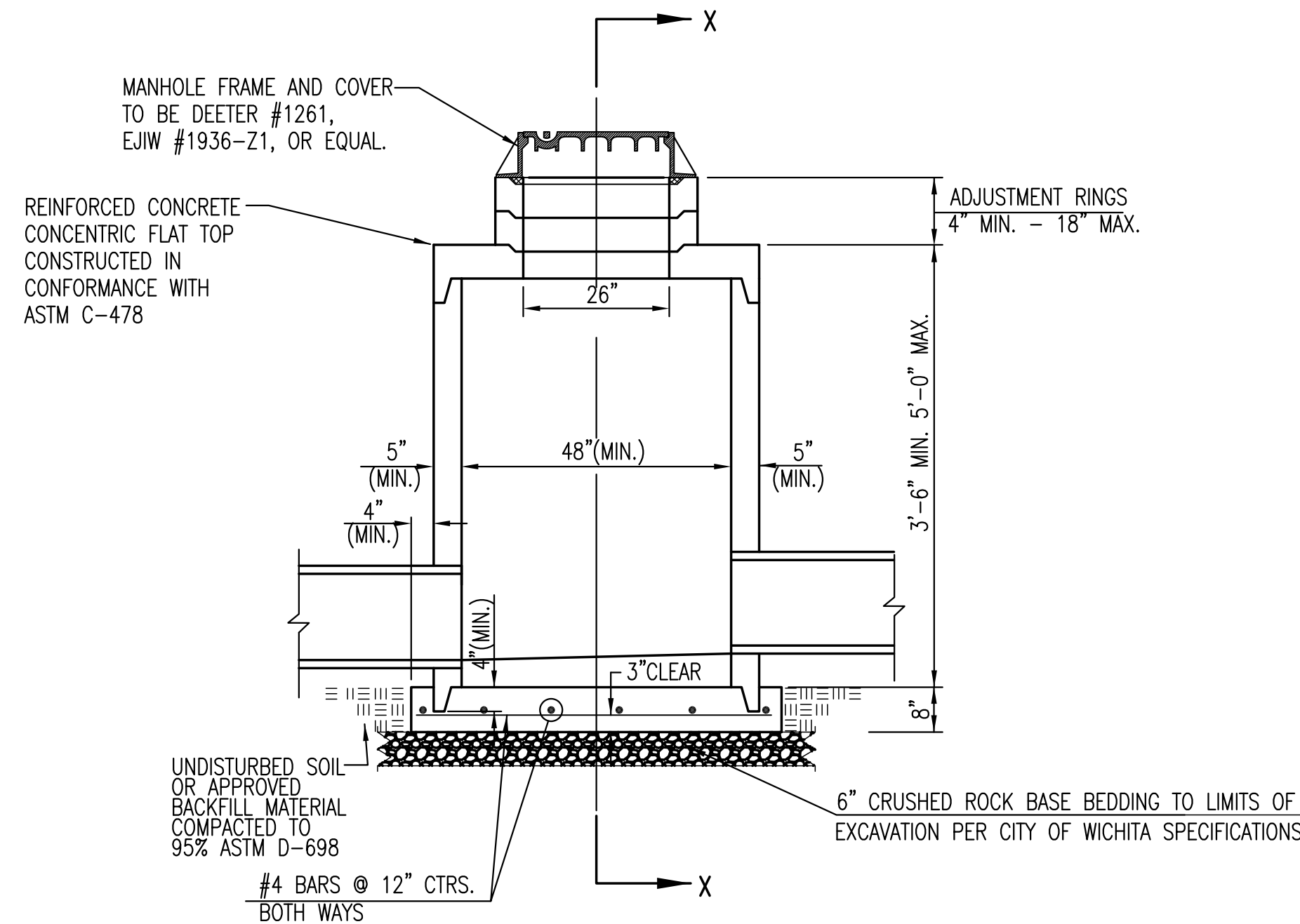
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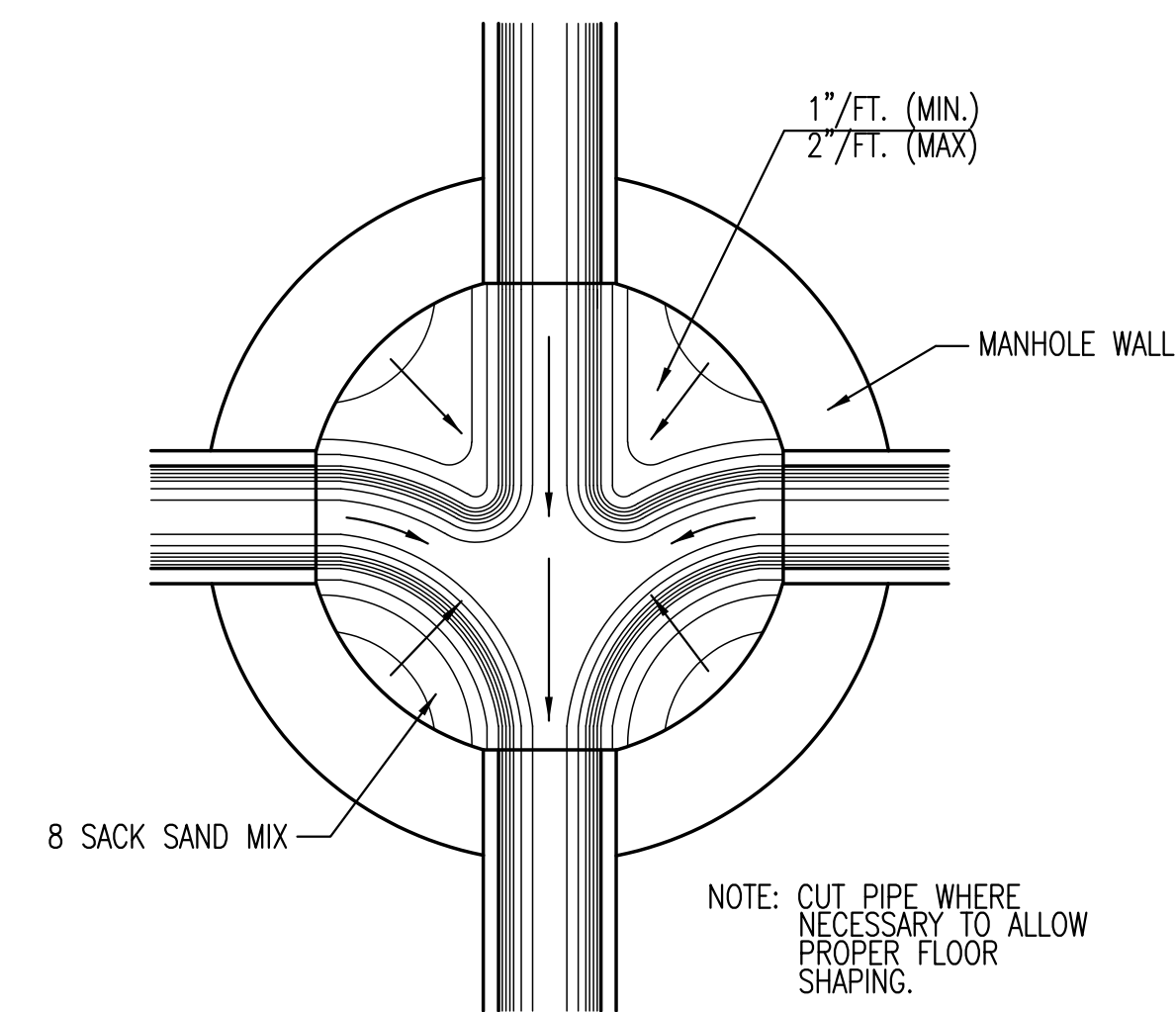
PRECAST STANDARD MANHOLE TYPE "A"



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-Z1, 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.

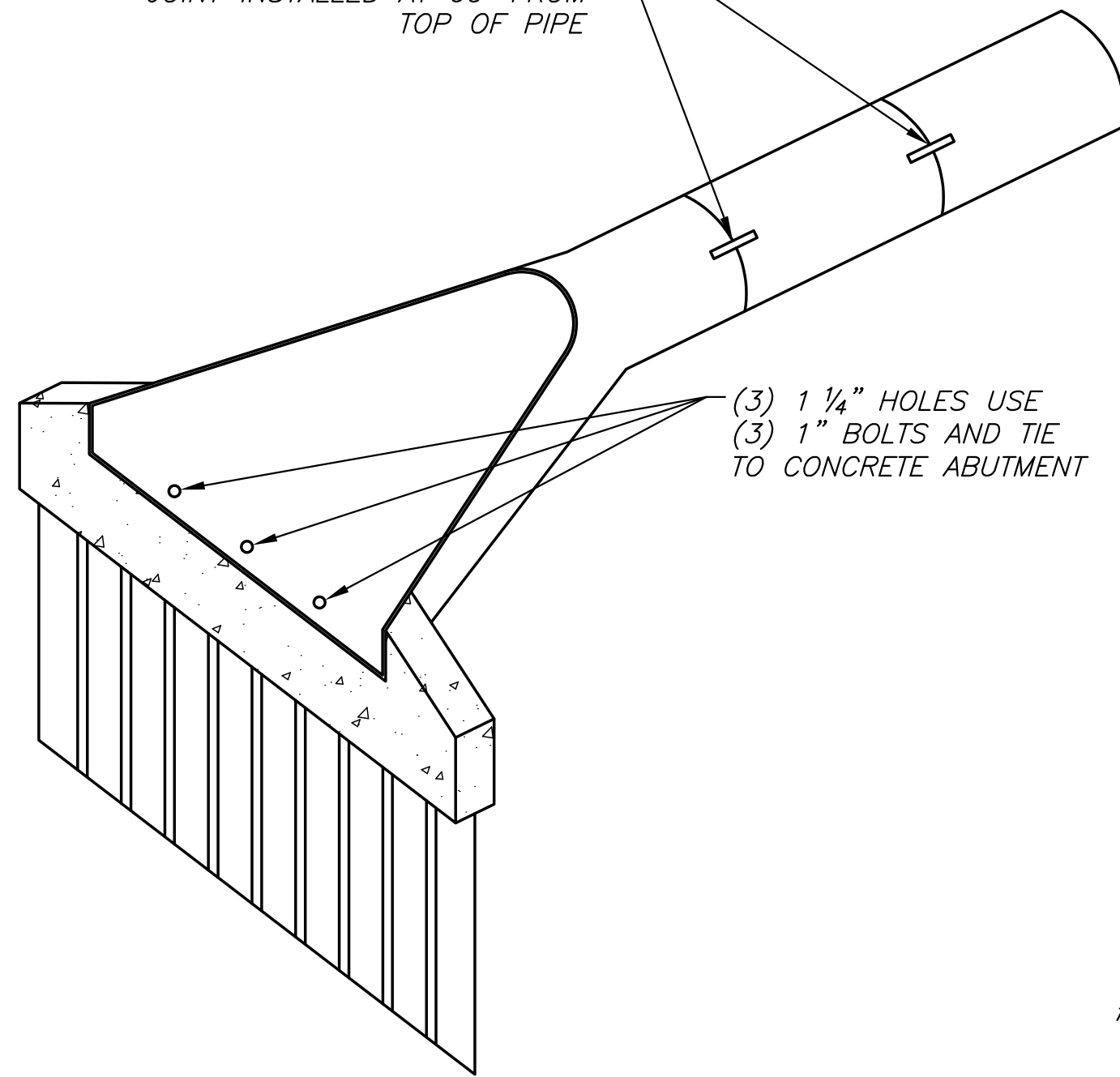
REVISED: MARCH 2015



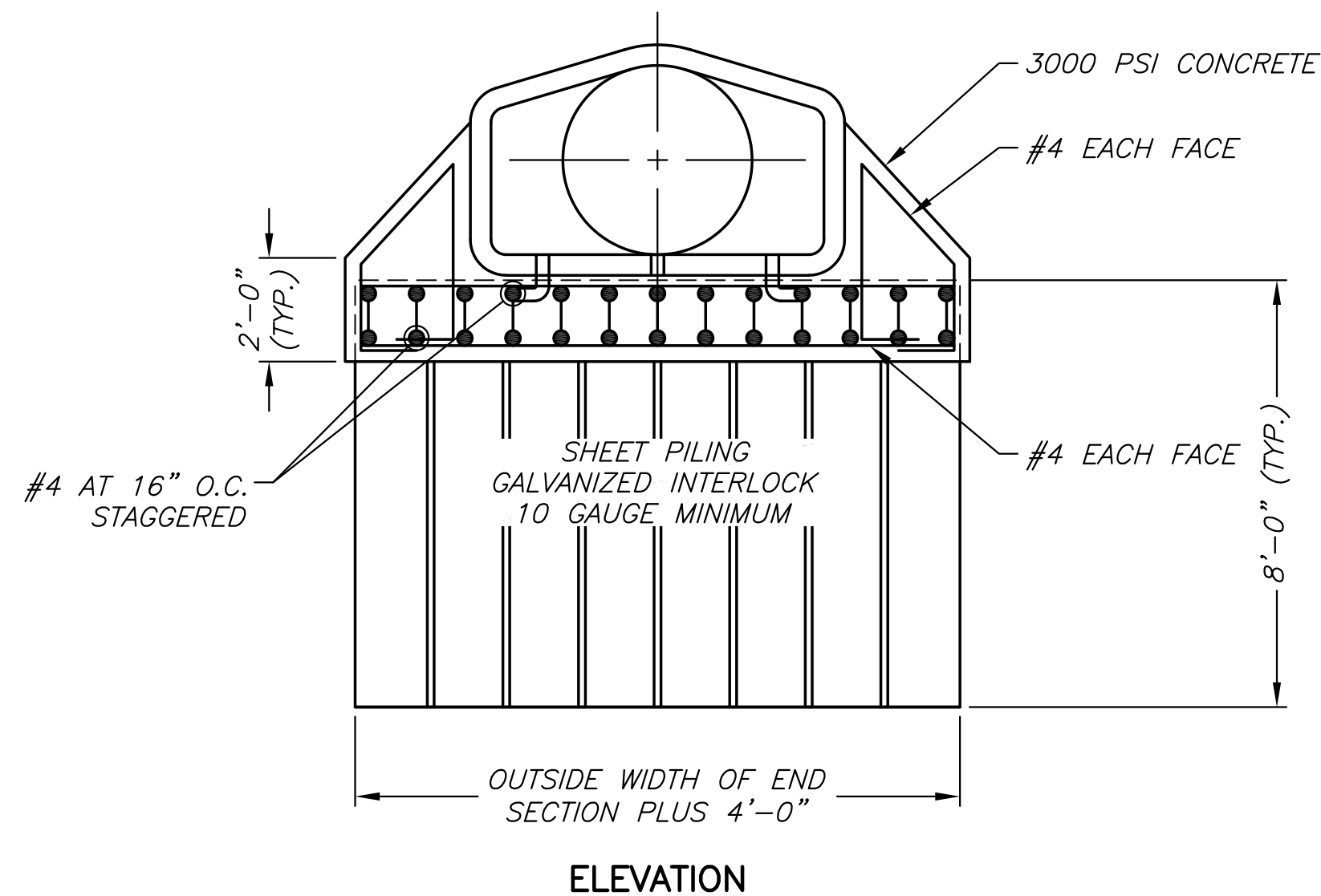
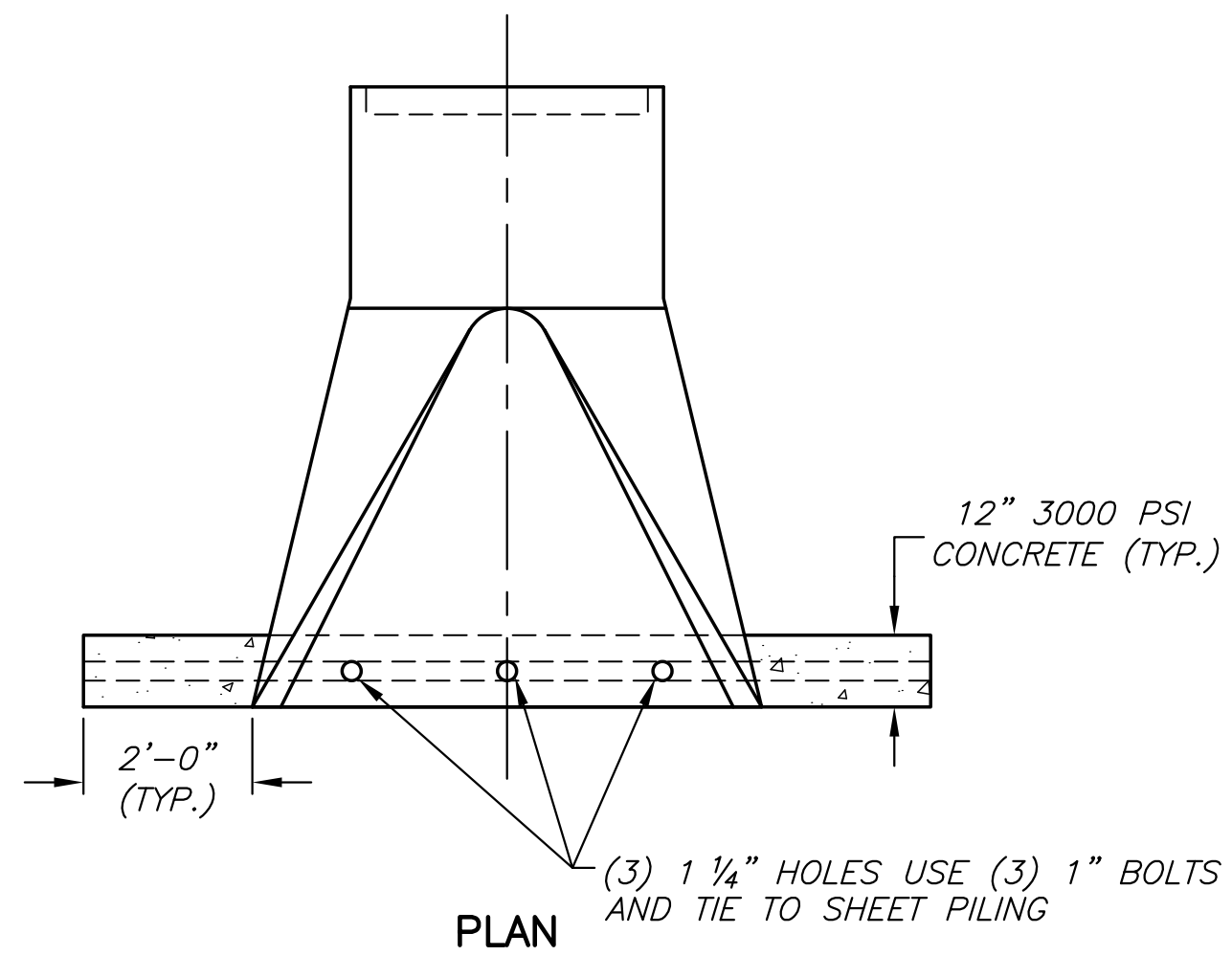
CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

PRECAST CONCRETE MANHOLE (STORM SEWER)		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER 0539	OCA NUMBER 133119	DATE AUG. 2018
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET 4 OF 17

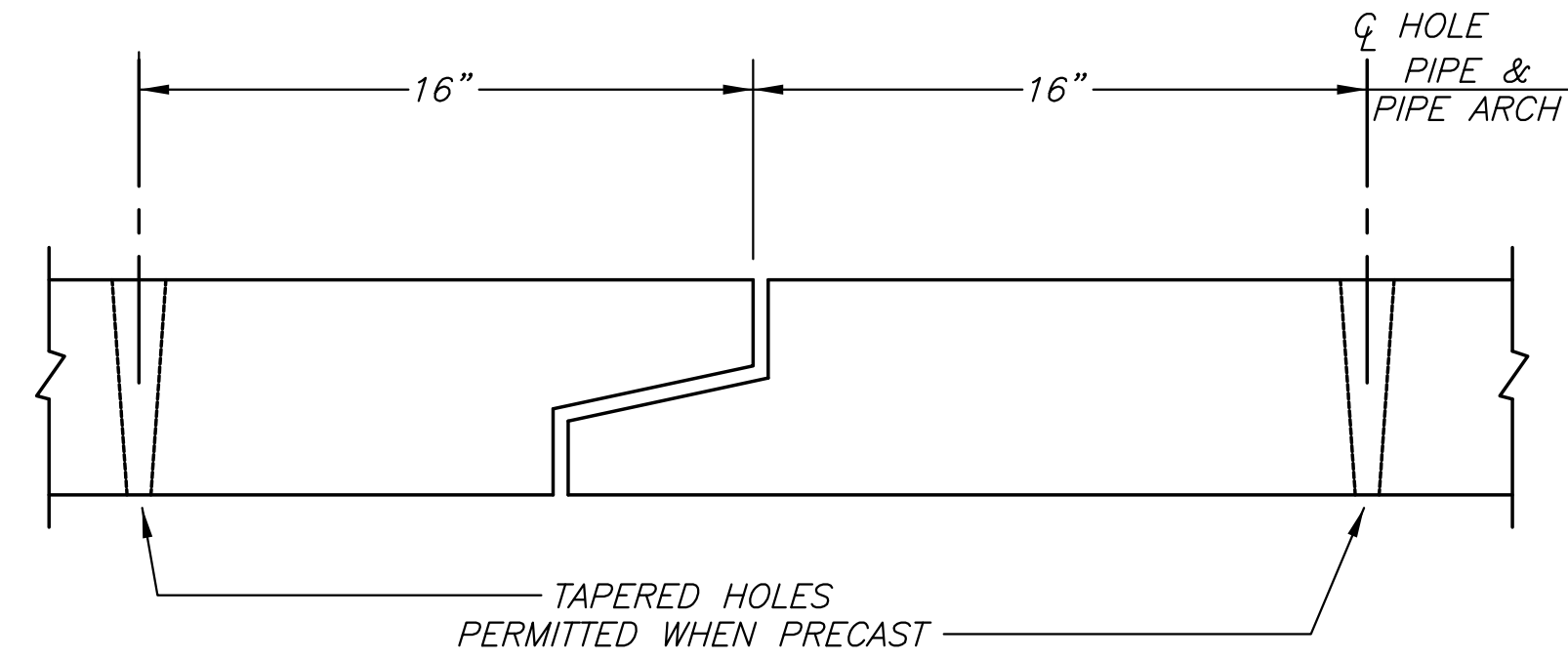
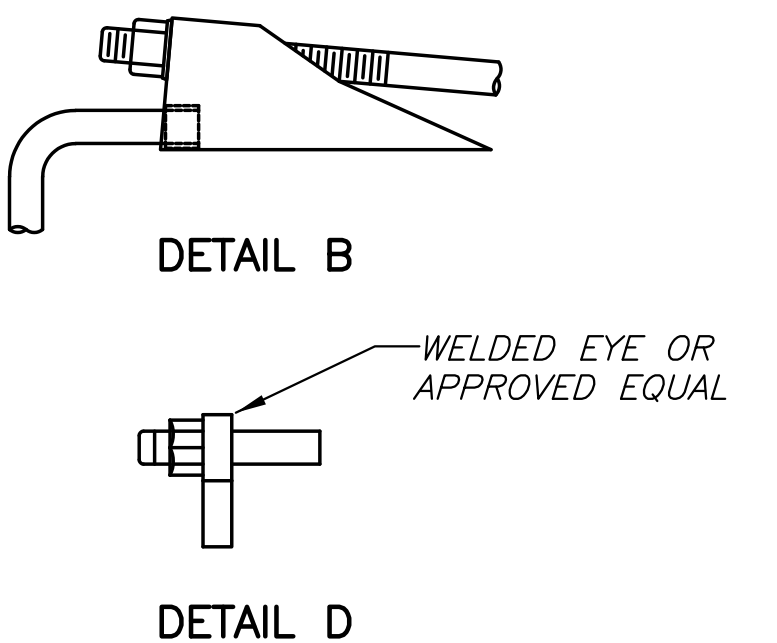
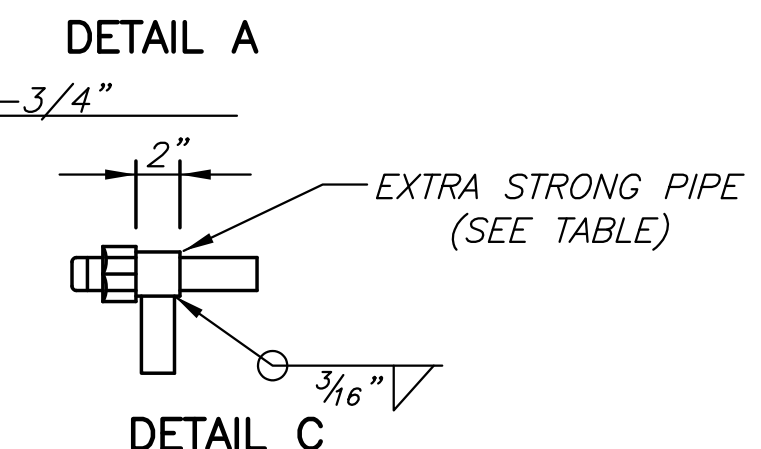
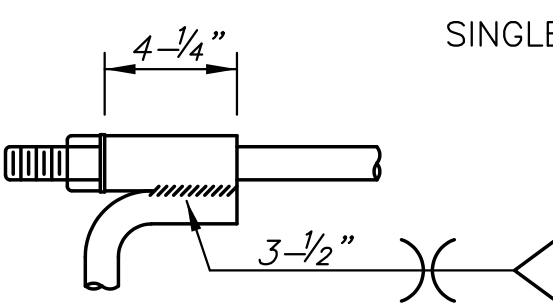
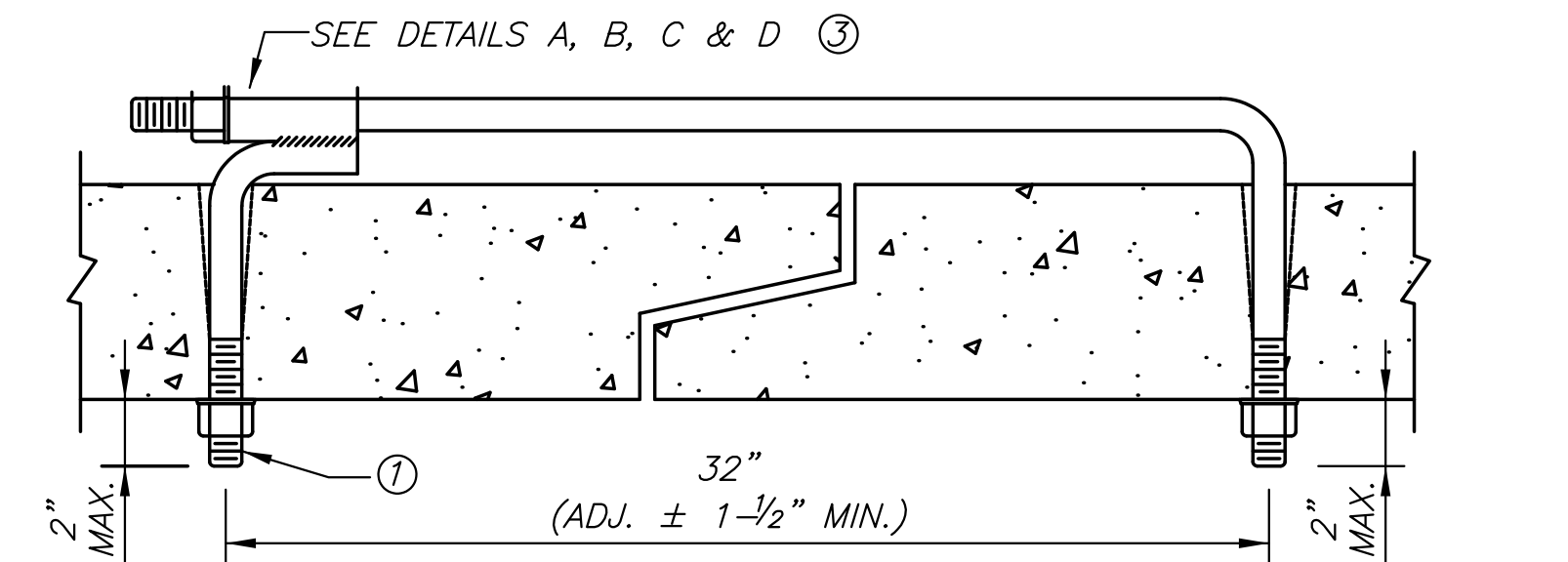
TIE LAST 2 PIPE JOINTS AND USE 2 TIE BOLT FASTENERS PER JOINT INSTALLED AT 60° FROM TOP OF PIPE



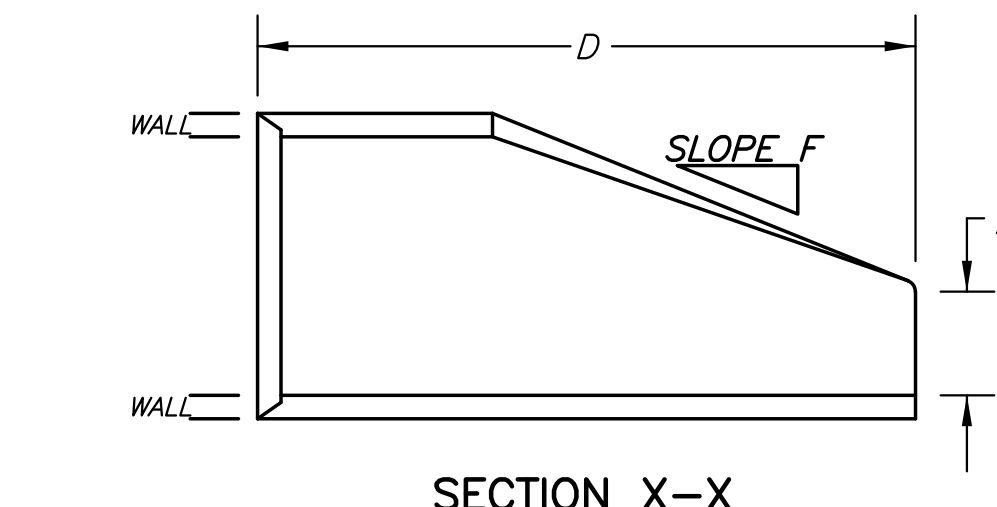
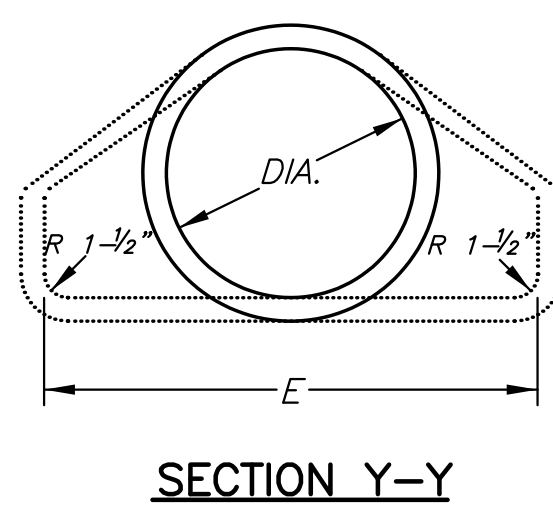
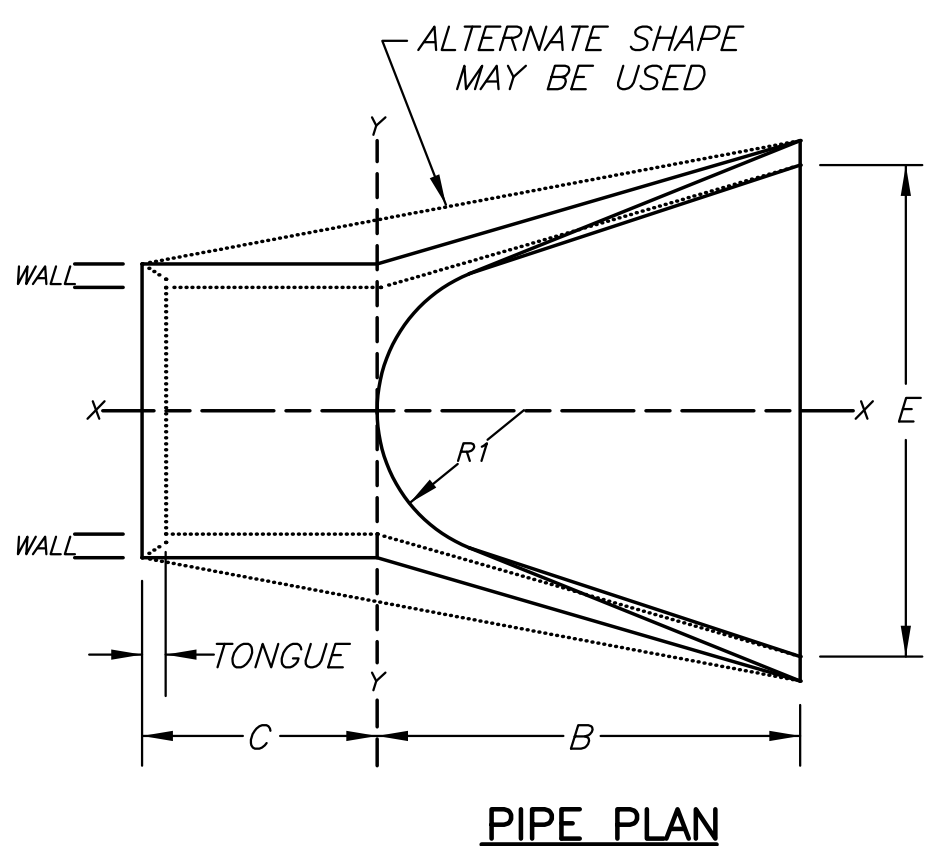
(3) 1 1/4" HOLES USE (3) 1" BOLTS AND TIE TO CONCRETE ABUTMENT



SHEET PILING FOR END SECTIONS



HOLES SHALL BE CAST OR DRILLED 16" FROM CENTERLINE OF JOINTS FOR BOX CULVERTS, AS SHOWN ABOVE, UNLESS FORMS ARE SET UP FOR 16" SPACING FROM OUTSIDE OF JOINT.



NOTES:

- TIES ARE SUBSIDIARY TO STORM SEWER PIPE.
- TIE RODS SHALL BE GALVANIZED OR POWER WASHED AND DIPPED IN AN APPROVED ZINC RICH EPOXY PRIME PAINT AFTER FABRICATION.
- TIES TO BE USED ONLY TO HOLD PIPE SECTIONS TOGETHER, NOT FOR PULLING SECTIONS TIGHT.
- CONNECT END SECTION AND PIPE SECTIONS WITH PIPE TIES A MINIMUM OF 2 JOINTS FROM THE END SECTION.

- ① TIE ROD THREADS SHALL PROJECT TO THE INSIDE OF PIPE EXCEPT AS NOTED IN PLANS.
- ② TIE ROD THREADS SHALL BE RECESSED WHEN PIPE IS USED AS CATTLE PASS OR PEDESTRIAN TRAIL.
- ③ TIES MAY BE COMPLETED WITH U-BOLT TIES, SINGLE CONNECTION TIES (AS SHOWN) OR DOUBLE CONNECTION TIES.

DIAM.	A	B	C	D	E	F	R1	TONGUE	WALL
12"	4"	2' 0"	4' 0"-7/8"	6' 0"-7/8"	2' 0"	3:1	9"	1-1/2"	2"
15"	6"	2' 3"	3' 10"	6' 1"	2' 6"	3:1	11"	2"	2 1/4"
18"	9"	2' 3"	3' 10"	6' 1"	3' 0"	3:1	12"	2-1/2"	2 1/2"
24"	9-1/2"	3' 7-1/2"	2' 6"	6' 1-1/2"	4' 0"	3:1	14"	2-1/2"	3"
30"	1' 0"	4' 6"	1' 7-3/4"	6' 1-3/4"	5' 0"	3:1	15"	3"	3-1/2"
36"	1' 3"	5' 3"	1' 10-3/4"	8' 1-3/4"	6' 0"	3:1	20"	3-1/2"	4"
42"	1' 9"	5' 3"	2'-11"	8' 2"	6' 6"	3:1	22"	3-3/4"	4-1/2"
48"	2' 0"	6' 0"	2' 2"	8' 2"	7' 0"	3:1	22"	4-1/4"	5"
54"	2' 3"	5' 5"	2' 11"	8' 4"	7' 6"	3:1	24"	4-3/4"	5-1/2"
60"	2' 6"	5' 0"	3' 3"	8' 3"	8' 0"	2.4:1	24"	5"	6"
66"	2' 0"	6' 6"	1' 9"	8' 3"	8' 6"	2:1	24"	5-1/2"	7"
72"	2' 0"	6' 6"	1' 9"	8' 3"	9' 0"	2:1	24"	6"	7-1/2"

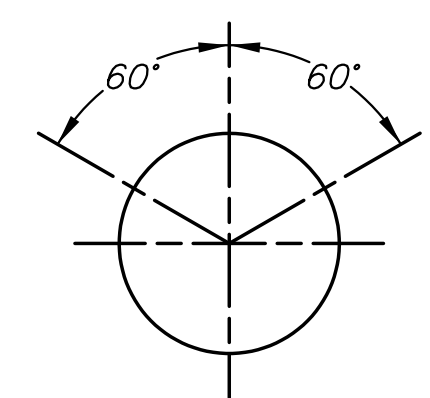
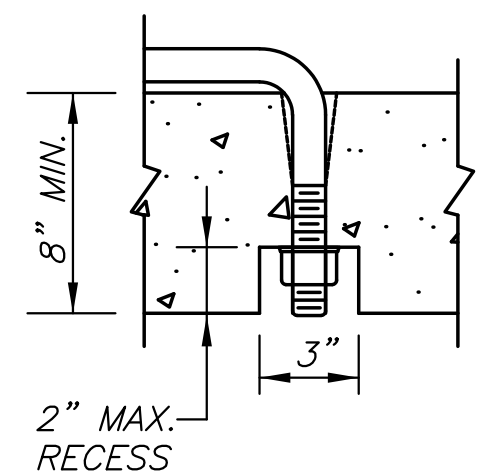
END AREA SQ.FT.	ROUND EQUIV.	SPAN	RISE	WALL	A	B	C	D	E	R1	R2	R3	R4
3.3	24"	30"	19"	3 1/4"	8-1/2"	3' 3"	2' 9"	6' 0"	4' 0"	8-1/4"	26-1/4"	3"	7"
4.1	27"	34"	22"	3 1/2"	9"	3' 10"	2' 2"	6' 0"	4' 6"	9-1/4"	29-17/32"	3"	8"
5.1	30"	38"	24"	3 3/4"	9-1/2"	4' 6"	1' 6"	6' 0"	5' 0"	10-1/4"	32-3/4"	3"	9"
6.3	33"	42"	27"	3 3/4"	10-3/8"	4' 9"	1' 3"	6' 0"	5' 6"	11-7/16"	36-3/16"	3"	10-1/2"
7.4	36"	45"	29"	4 1/2"	11 1/4"	5' 0"	3' 0"	8' 0"	6' 0"	12-1/4"	39-1/4"	3"	12"

TONGUE LENGTHS BASED ON QUINN STANDARD

PIPE SIZE (INCHES)	ROD THREAD DIA.
12 - 27	5/8"
30 - 66	3/4"
72 - 108	1"

ROD THREAD DIA.	EXTRA STRONG PIPE INSIDE DIA.
5/8"	3/4"
3/4"	1"
1"	1-1/4"

PIPE SIZE LISTED IS INSIDE DIA. OF ROUND PIPE OR EQUIVALENT DIA. OF PIPE ARCH.



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END SECTION DETAILS

PROJECT NO.	0539	
DATE	AUG. 2018	
SCALE	NTS	
DESIGNED	DRAWN	CHECKED
BLB	BKS	BLB
NO.	REVISION	DATE

PLOTTED: Friday, August 24, 2018 @ 10:38AM

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AS BUILTS

Contractor: McCullough Excavation
 Inspector: Matt Perez
 Date: 1-21-19

KEMILLER
 ENGINEERING PA

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

PRIVATE STORM WATER SEWER PLAN FOR
STEEPLE BAY
 WICHITA, KS

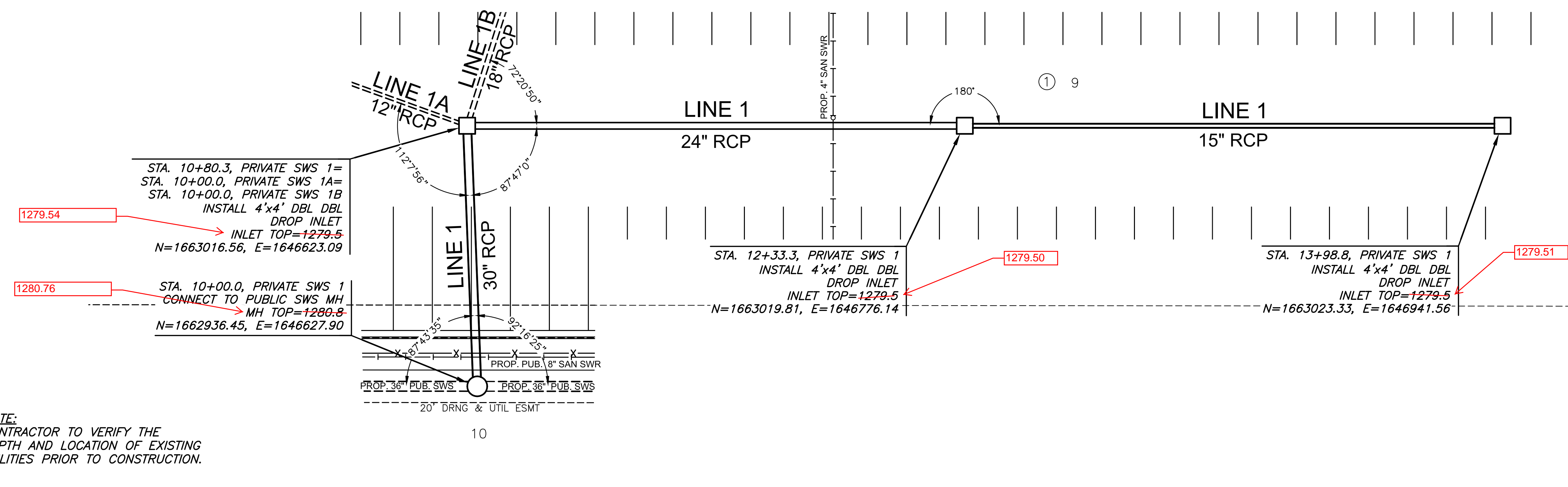
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PRIVATE SWS LINE 1

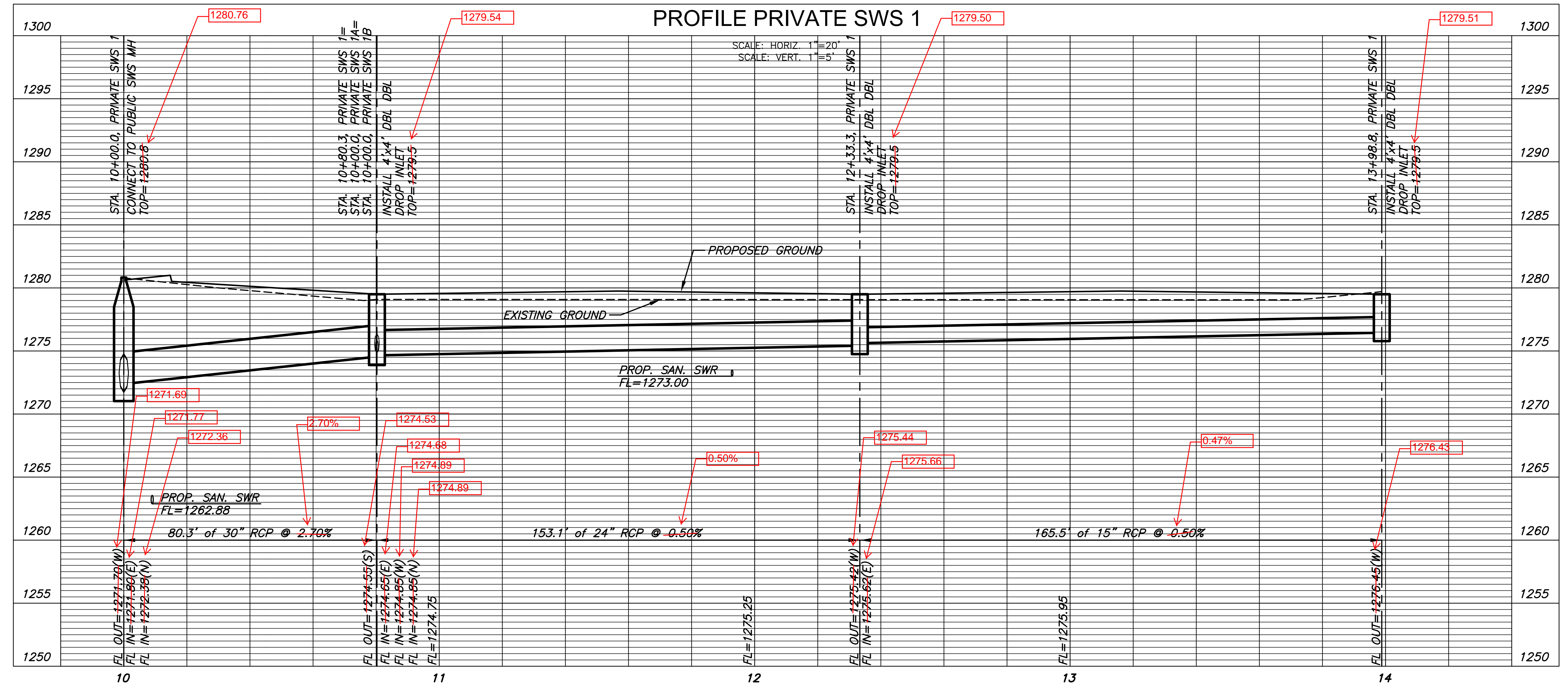
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DESIGNED	DRAWN	CHECKED
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NO.	REVISION	DATE

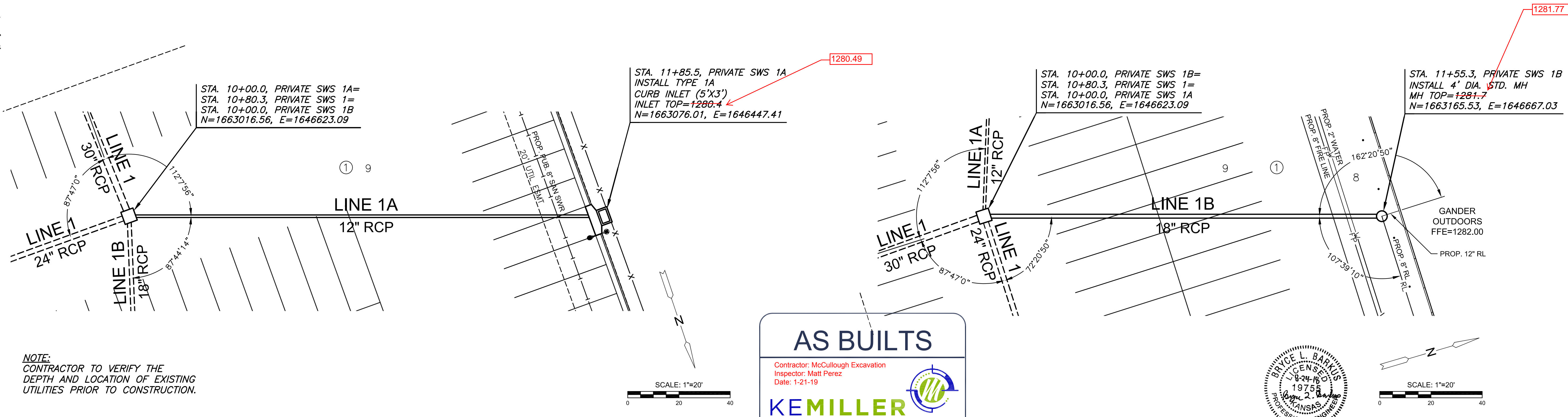
SHEET NO.
 6 OF 17



**PLAN PRIVATE SWS 1
 PROFILE PRIVATE SWS 1**




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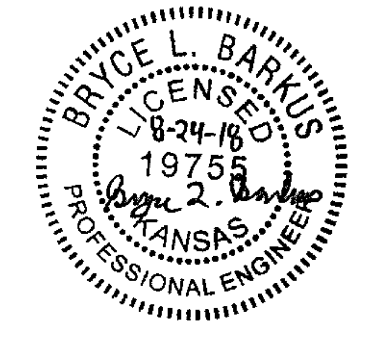
NOTE:
CONTRACTOR TO VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

AS BUILTS

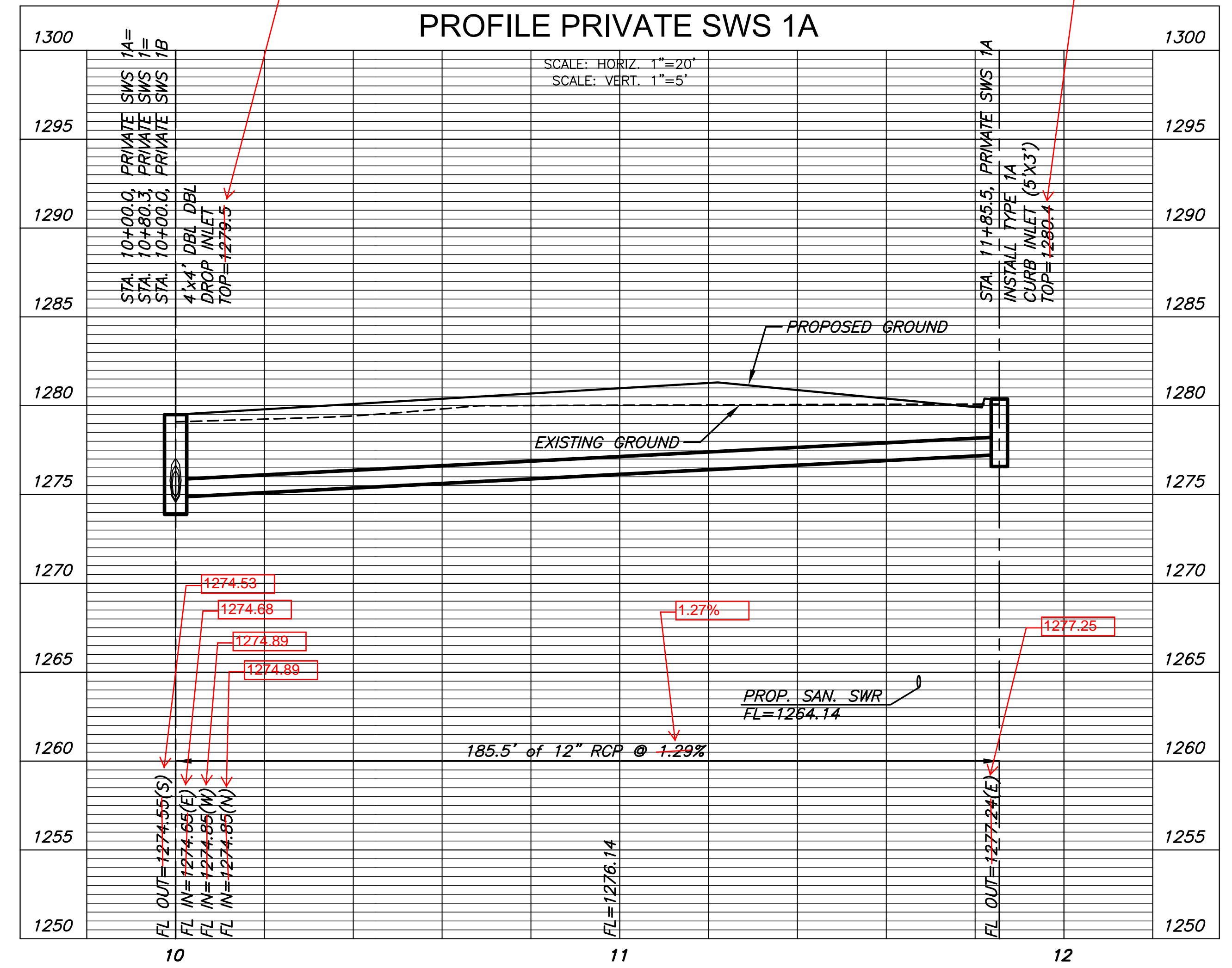
Contractor: McCullough Excavation
Inspector: Matt Perez
Date: 1-21-19



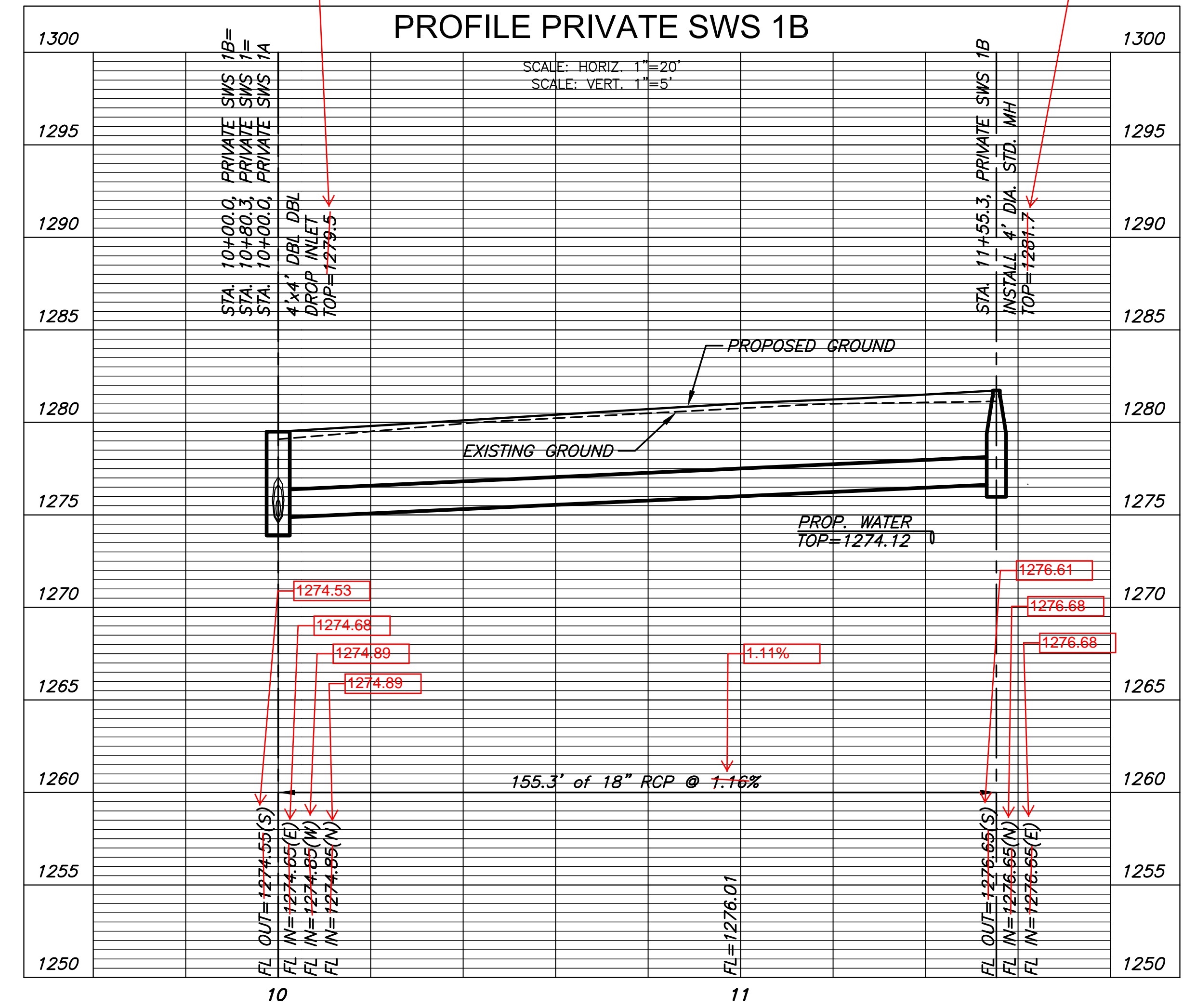
117 E. Lewis,
Wichita, KS 67202 (316)264-0242



PLAN PRIVATE SWS 1A
PROFILE PRIVATE SWS 1A



PLAN PRIVATE SWS 1B
PROFILE PRIVATE SWS 1B



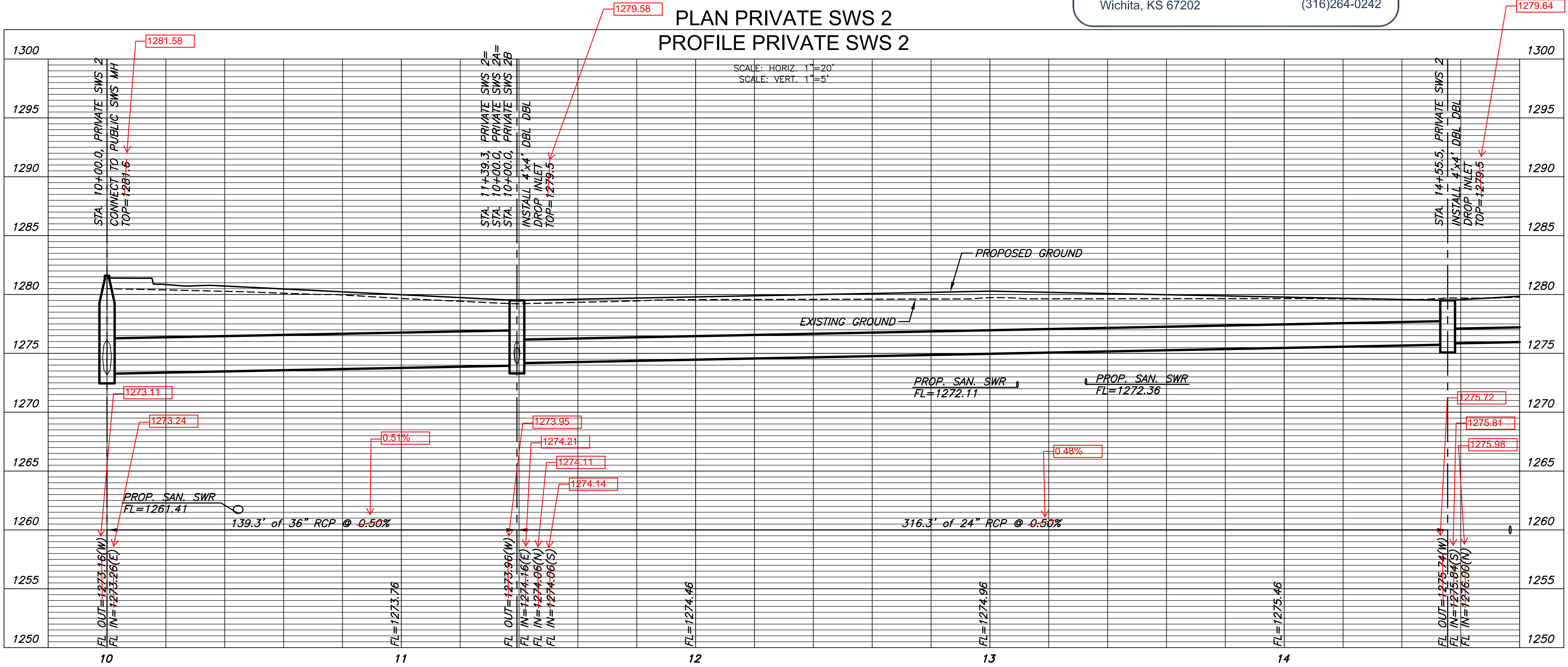
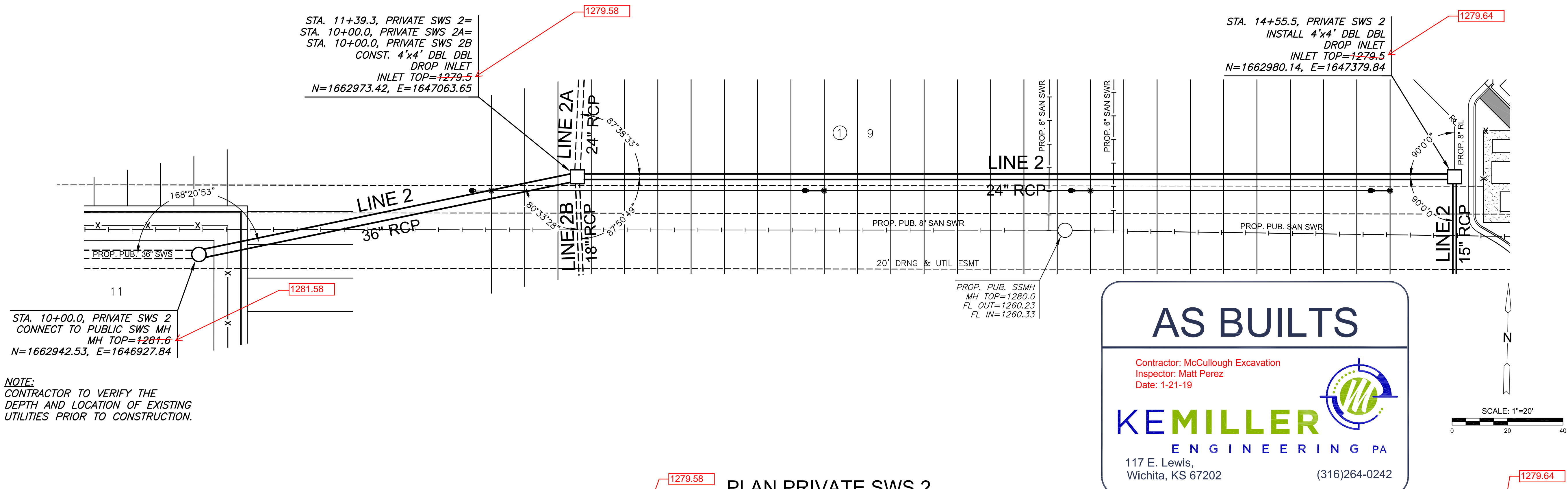
PRIVATE STORM WATER SEWER PLAN FOR
STEEPLE BAY
WICHITA, KS

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PRIVATE SWS LINES 1A & 1B

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DATE	AUG. 2018	
SCALE	1"=20'	
DESIGNED	DRAWN	CHECKED
BLB	BKS	BLB

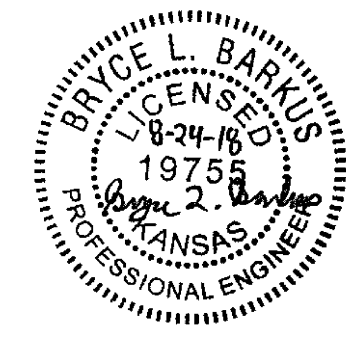
NO.	REVISION	DATE



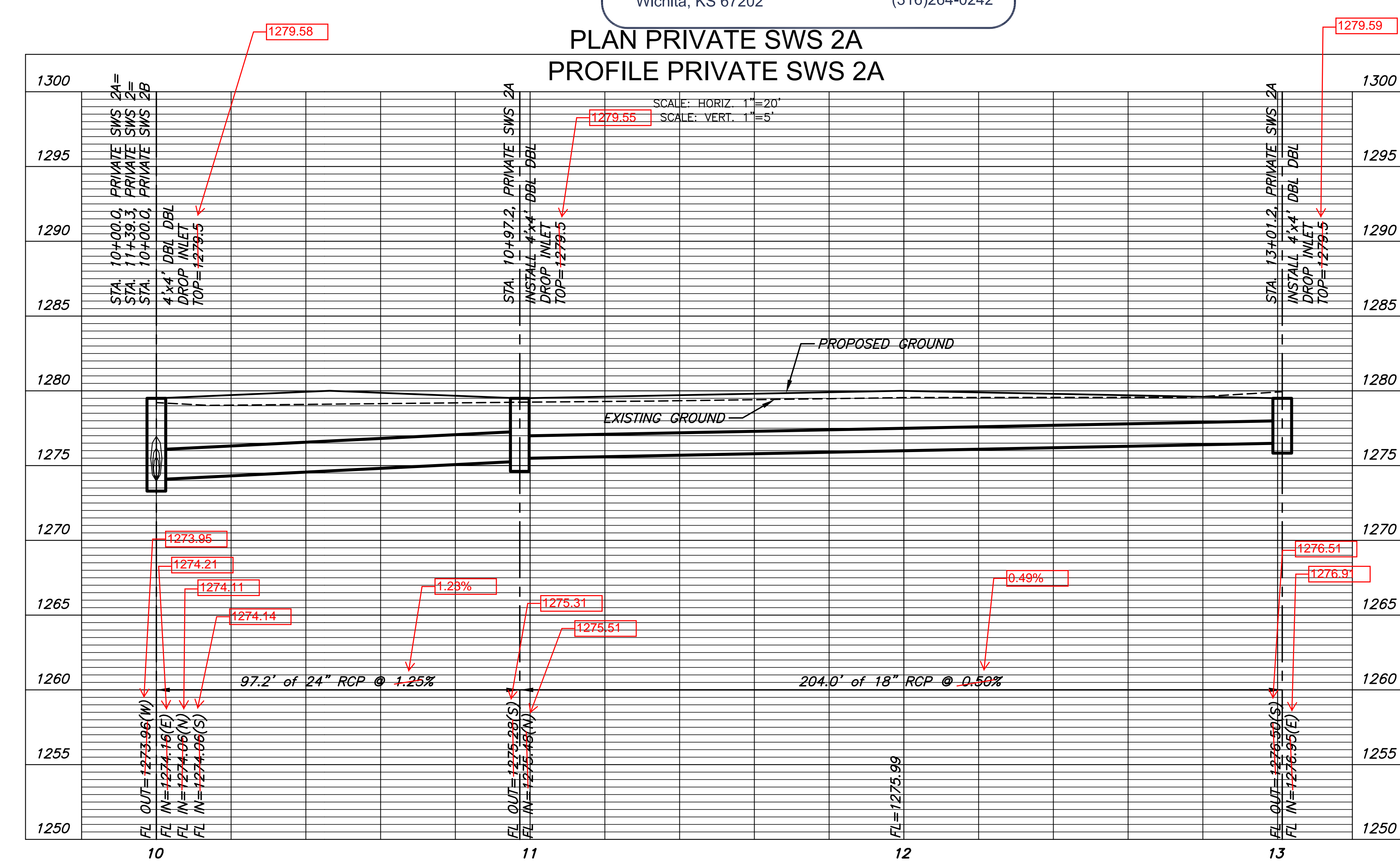
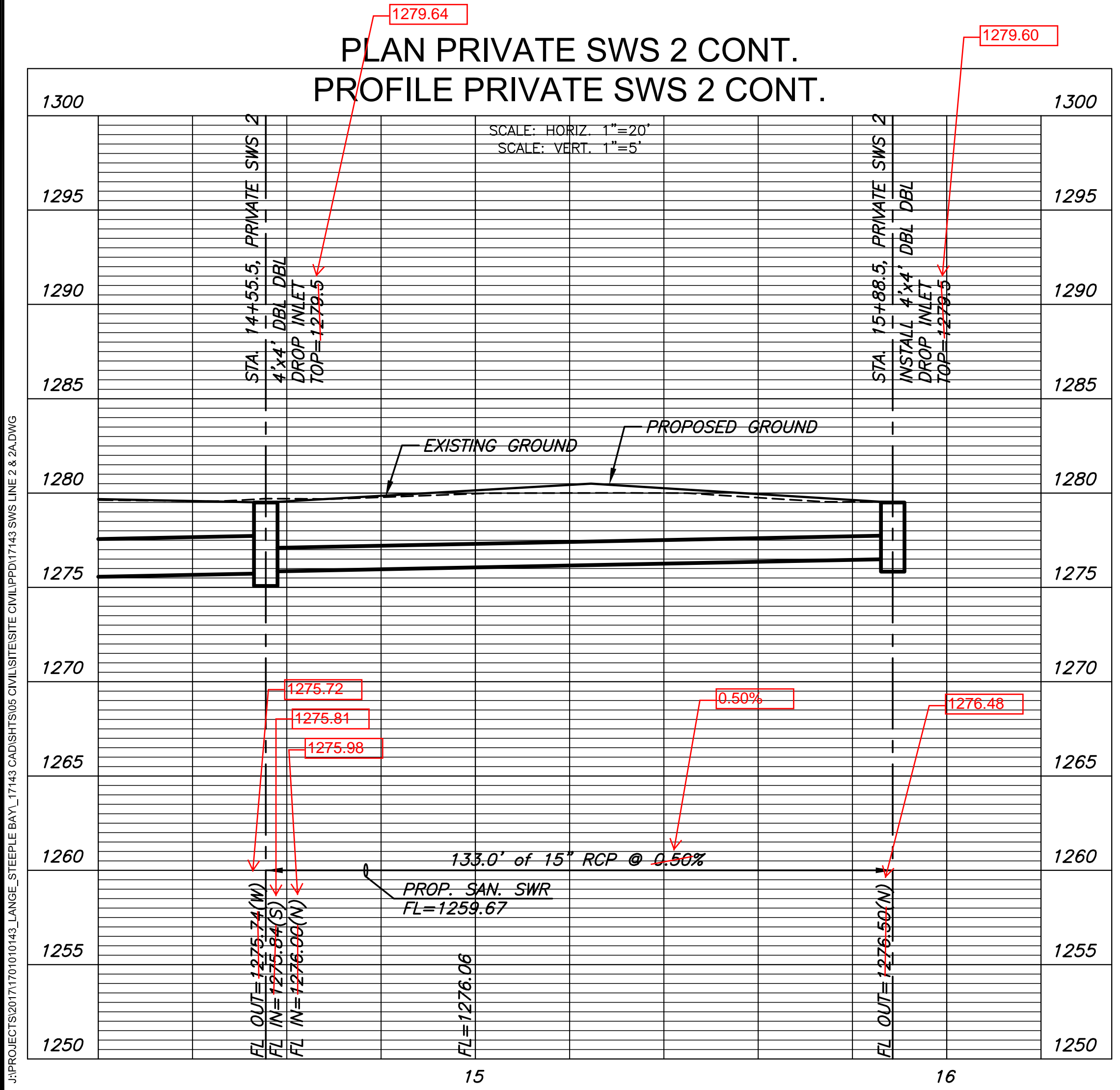
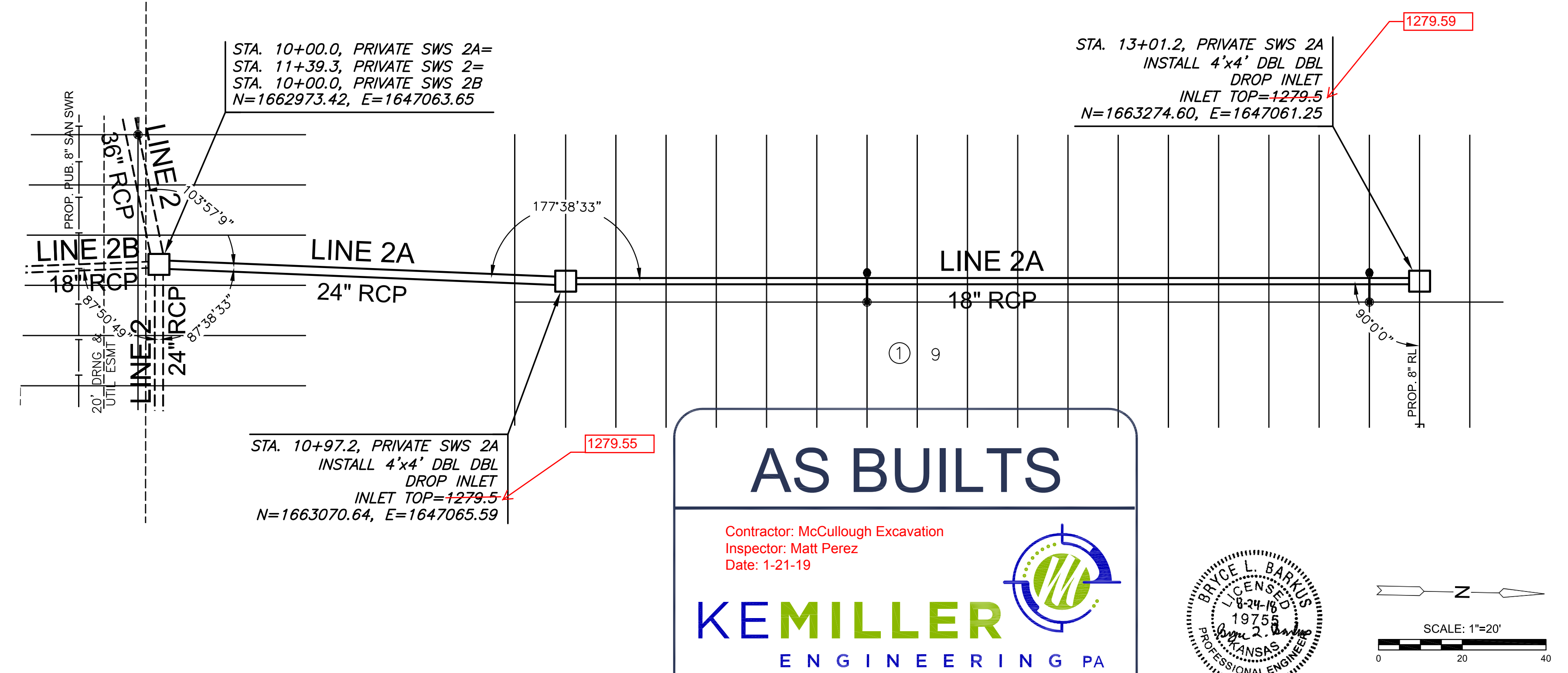
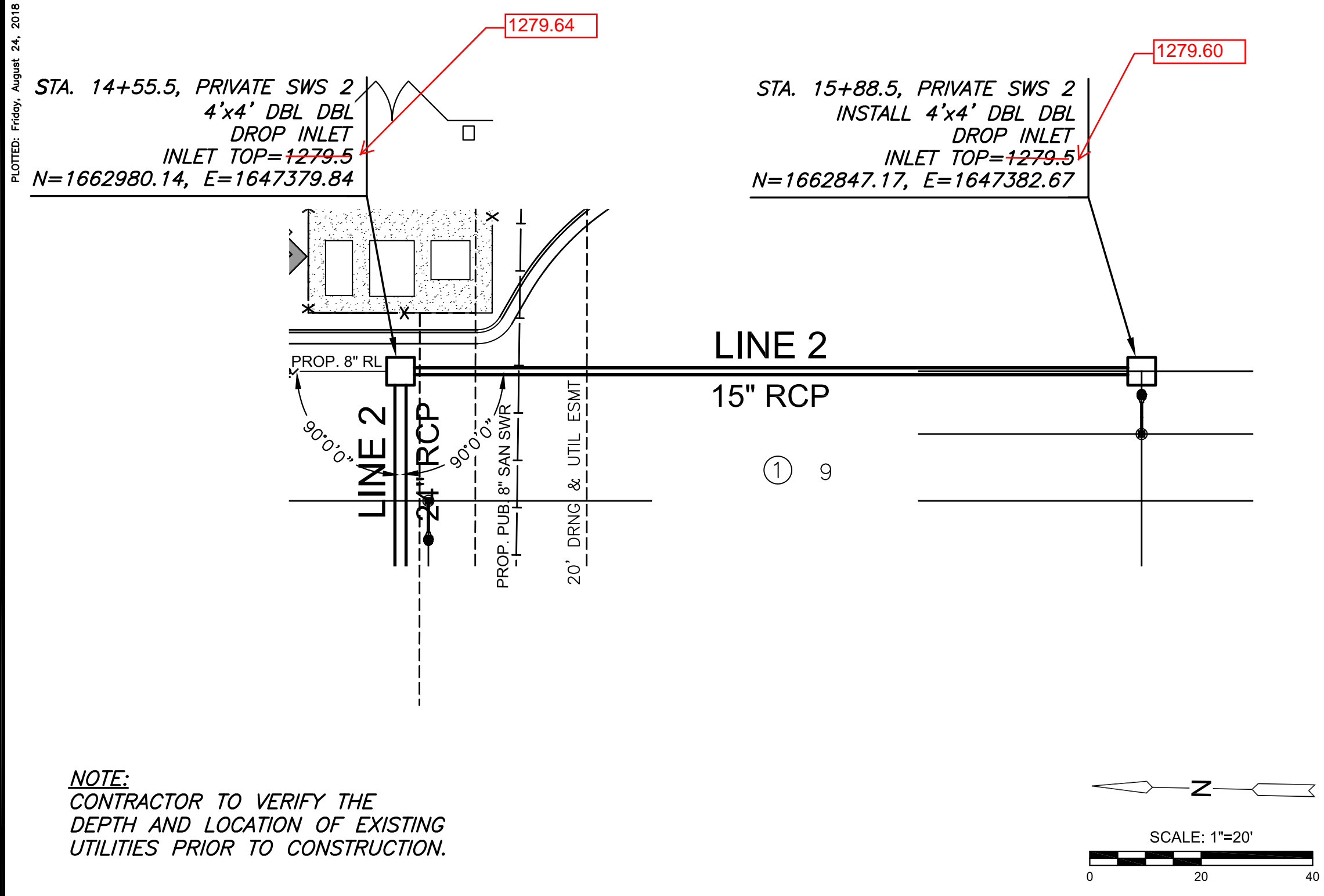
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PRIVATE SWS LINE 2

PROJECT NO.	0539	
DATE	AUG. 2018	
SCALE	1"=20'	
DESIGNED	DRAWN	CHECKED
BLB	BKS	BLB
NO.	REVISION	DATE
SHEET NO. 8 OF 17		



J:\PROJECTS\2017\101010143_LANES STEEPLE BAY_1743_CAD\SHOTS\SWS\CIVIL\SITE\SITE CIVIL\PP01743 SWS LINE 2 & 2A.DWG
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PRIVATE SWS
LINES 2 & 2A

PROJECT NO.	0539	
DATE	AUG. 2018	
SCALE	1"=20'	
DESIGNED	DRAWN	CHECKED
BLB	BKS	BLB
NO.	REVISION	DATE
SHEET NO.		
9 OF 17		

PLOTED: Friday, August 24, 2018 @ 10:44AM

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STA. 10+00.0, PRIVATE SWS 4
INSTALL 24" RESTRAINED
END SECTION (TWO JOINTS)
W/ SHEET PILING
N=1663813.72, E=1647158.27

STA. 10+85.3, PRIVATE SWS 4
INSTALL TYPE 1A
CURB INLET (5'X3')
INLET TOP=1279.9
N=1663728.42, E=1647160.53

STA. 11+20.7, PRIVATE SWS 4
INSTALL TYPE 1A
CURB INLET (5'X3')
INLET TOP=1279.9
N=1663693.10, E=1647161.47

STA. 14+15.5, PRIVATE SWS 4
INSTALL TYPE 1A
CURB INLET (5'X3')
INLET TOP=1280.0
N=1663524.64, E=1647289.40

STA. 12+91.8, PRIVATE SWS 4=
STA. 10+00.00, PRIVATE SWS 4A
INSTALL 4'x4' DBL DBL
DROP INLET
INLET TOP=1279.5
N=1663522.01, E=1647165.76

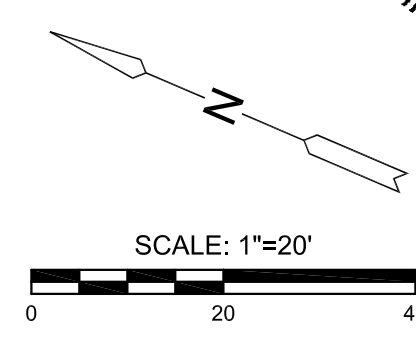
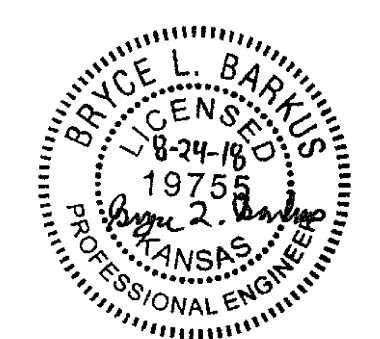
AS BUILTS

Contractor: McCullough Excavation
Inspector: Matt Perez
Date: 1-21-19

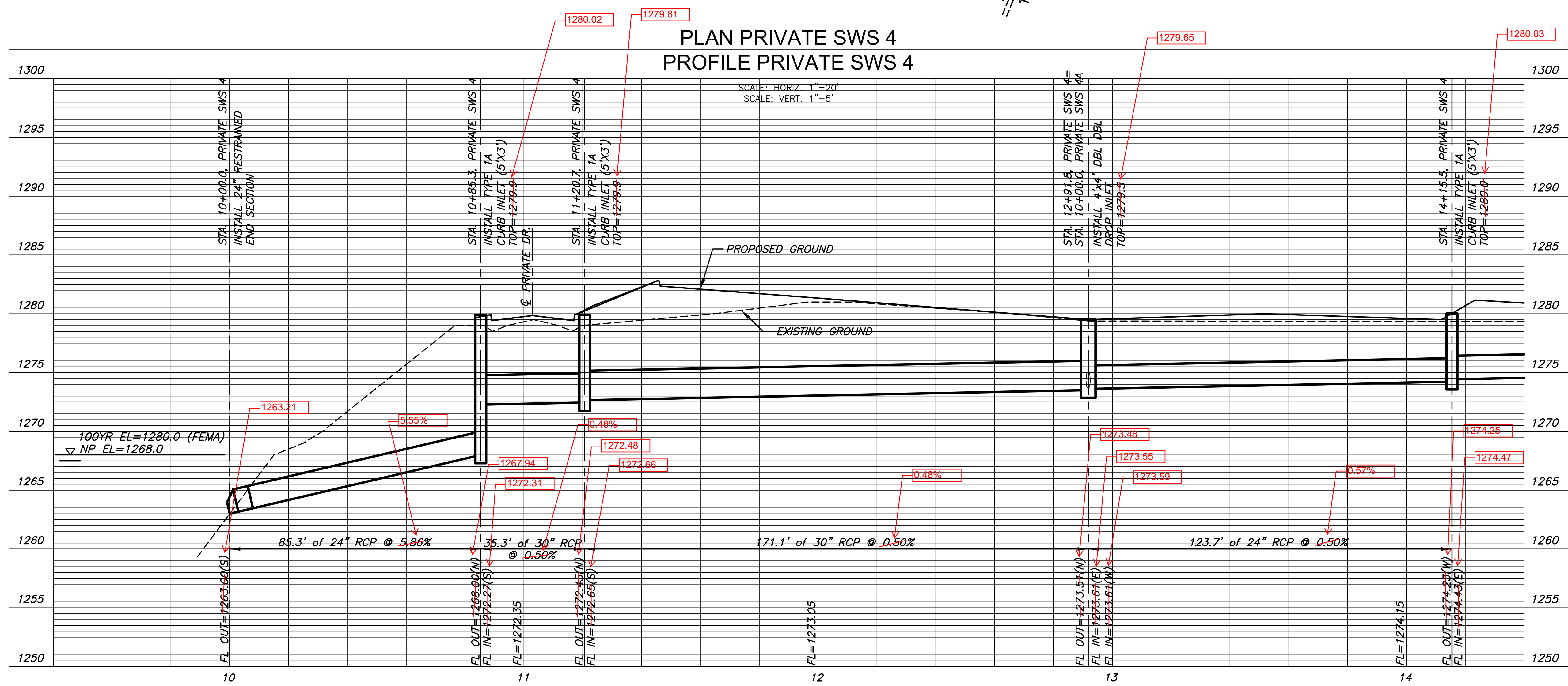
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117 E. Lewis,
Wichita, KS 67202

(316)264-0242



NOTE:
CONTRACTOR TO VERIFY THE
DEPTH AND LOCATION OF EXISTING
UTILITIES PRIOR TO CONSTRUCTION.



PRIVATE STORM WATER SEWER PLAN FOR
STEEPLE BAY
WICHITA, KS

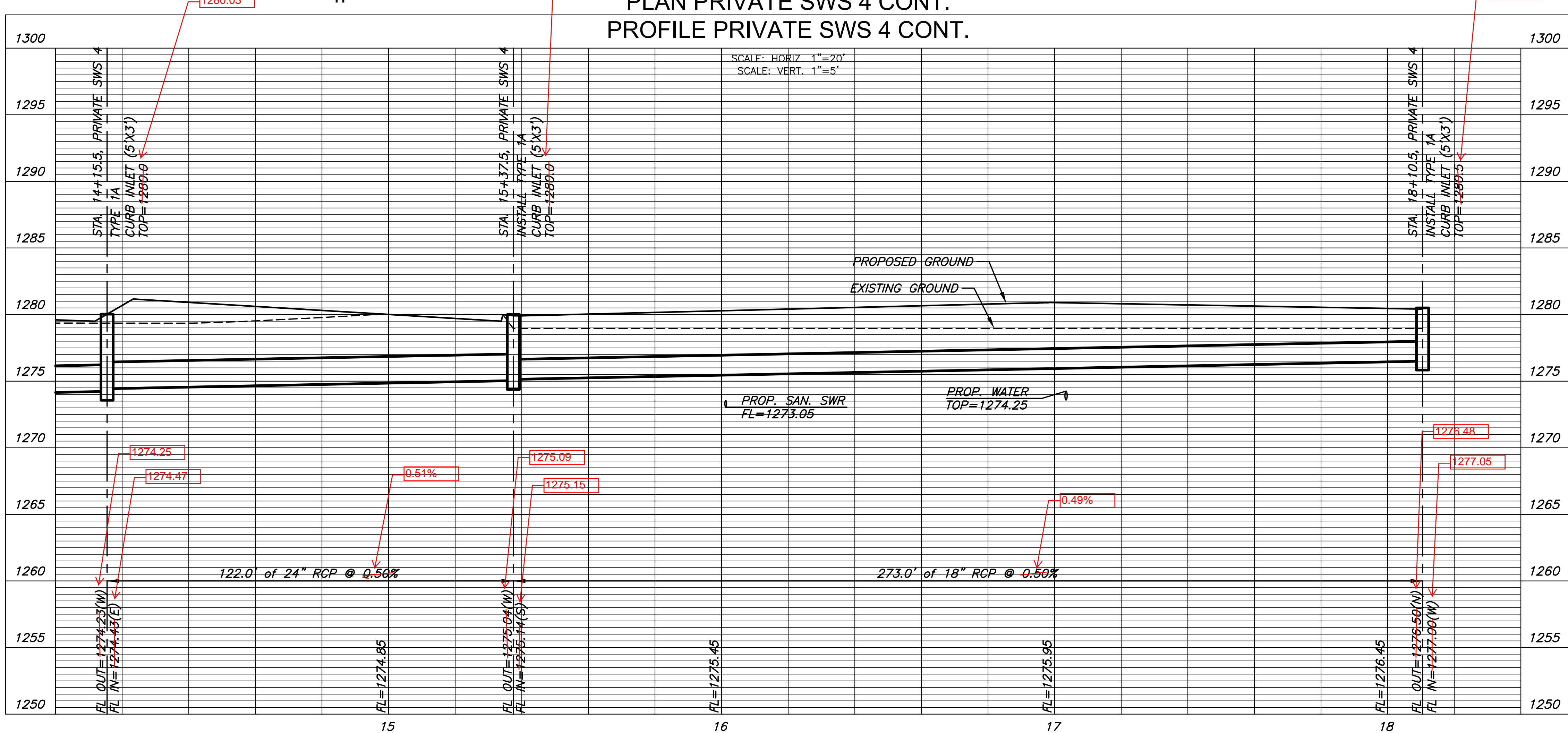
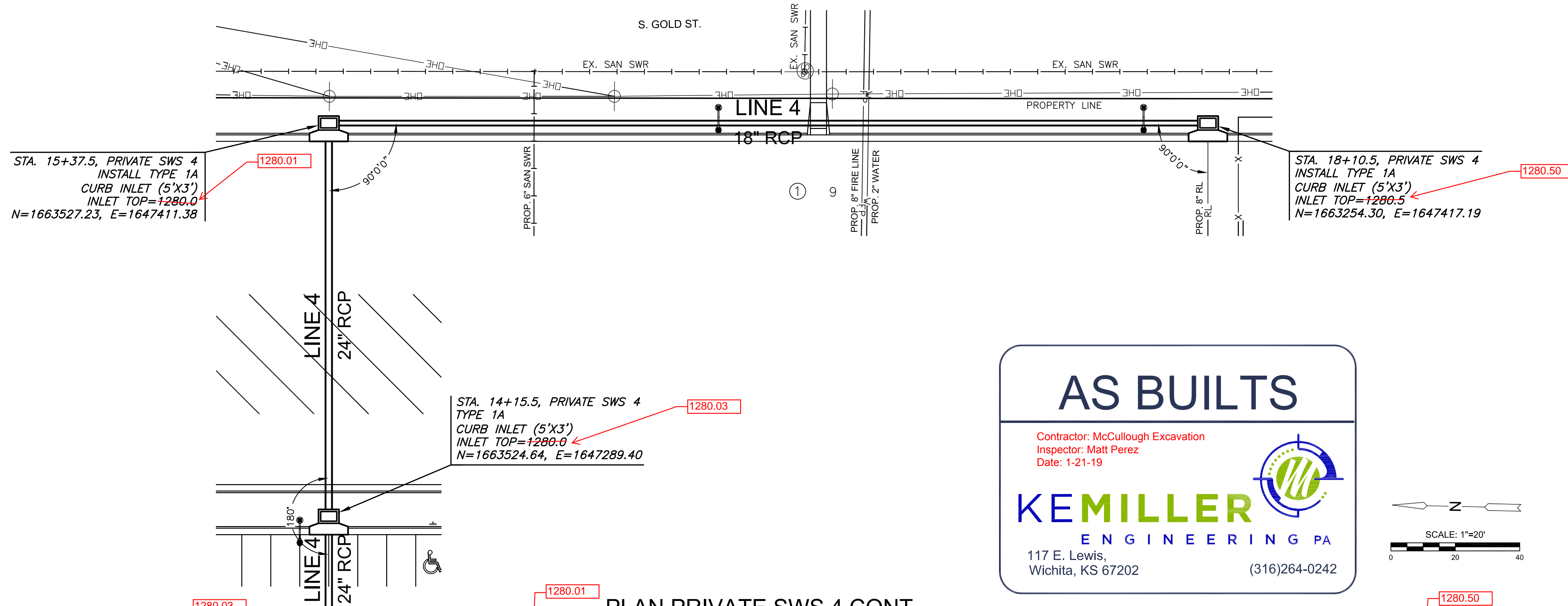
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**PRIVATE SWS
LINE 4**

PROJECT NO.	0539	
DATE	AUG. 2018	
SCALE	1"=20'	
DESIGNED	DRAWN	CHECKED
BLB	BKS	BLB

NO.	REVISION	DATE

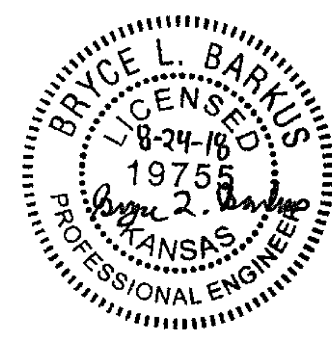
SHEET NO.
11 OF 17



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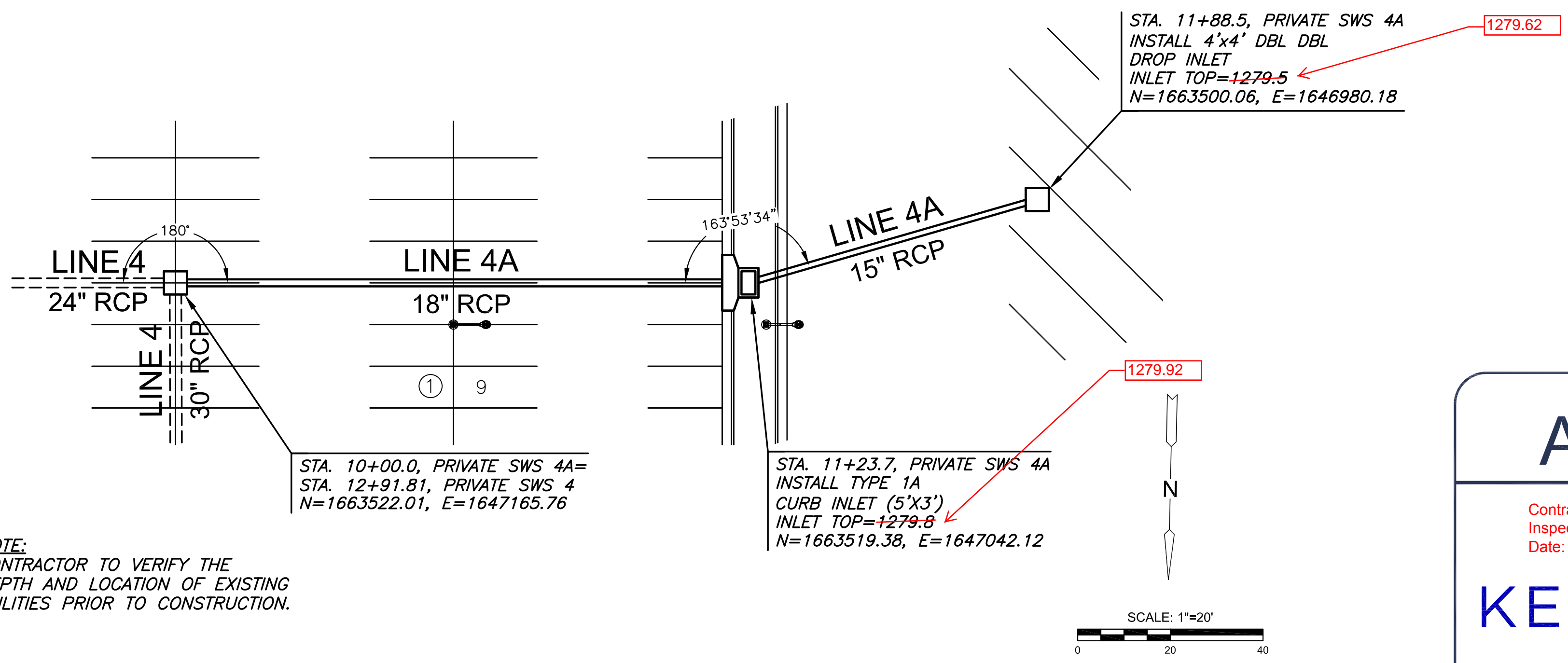
PRIVATE SWS LINE 4 CONT.

PROJECT NO.	0539
DATE	AUG. 2018
SCALE	1"=20'
DESIGNED	BKS
DRAWN	BKS
CHECKED	BLB



NO.	REVISION	DATE
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SHEET NO.



AS BUILTS

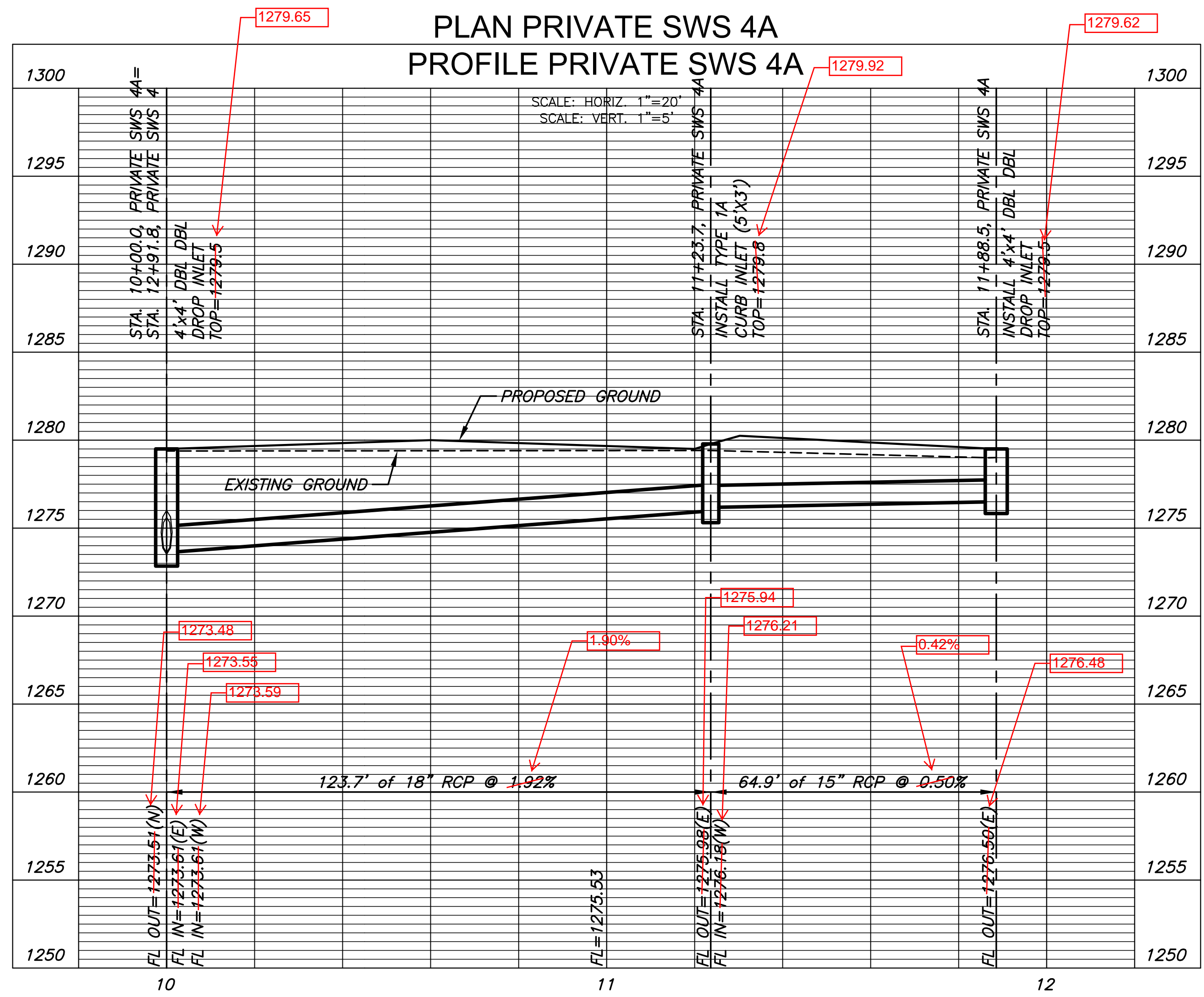
Contractor: McCullough Excavation
Inspector: Matt Perez
Date: 1-21-19



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PRIVATE STORM WATER SEWER PLAN FOR
STEEPLE BAY
WICHITA, KS

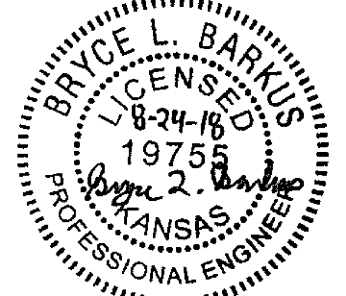


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**PRIVATE SWS
LINE 4A**

PROJECT NO.	0539	
DATE	AUG. 2018	
SCALE	1"=20'	
DESIGNED	DRAWN	CHECKED
BLB	BKS	BLB



NO.	REVISION	DATE
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PLOTTED: Friday, August 24, 2018 @ 10:27AM

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STA. 10+00.0, PRIVATE SWS 5
INSTALL 24" RESTRAINED
END SECTION (TWO JOINTS)
W/ SHEET PILING
N=1663804.44, E=1646808.39

STA. 10+85.3, PRIVATE SWS 5
INSTALL TYPE 1A
CURB INLET (5'X3')
INLET TOP=1279.9
N=1663719.13, E=1646810.65

STA. 11+20.7, PRIVATE SWS 5
INSTALL TYPE 1A
CURB INLET (5'X3')
INLET TOP=1279.9
N=1663683.81, E=1646811.59

STA. 13+15.2, PRIVATE SWS 5=
STA. 10+00.00, PRIVATE SWS 5A
INSTALL 4'x4' DBL DBL
DROP INLET
INLET TOP=1279.5
N=1663497.68, E=1646868.21

STA. 14+42.5, PRIVATE SWS 5
INSTALL 4'x4' DBL DBL
DROP INLET
INLET TOP=1279.5
N=1663477.00, E=1646742.62

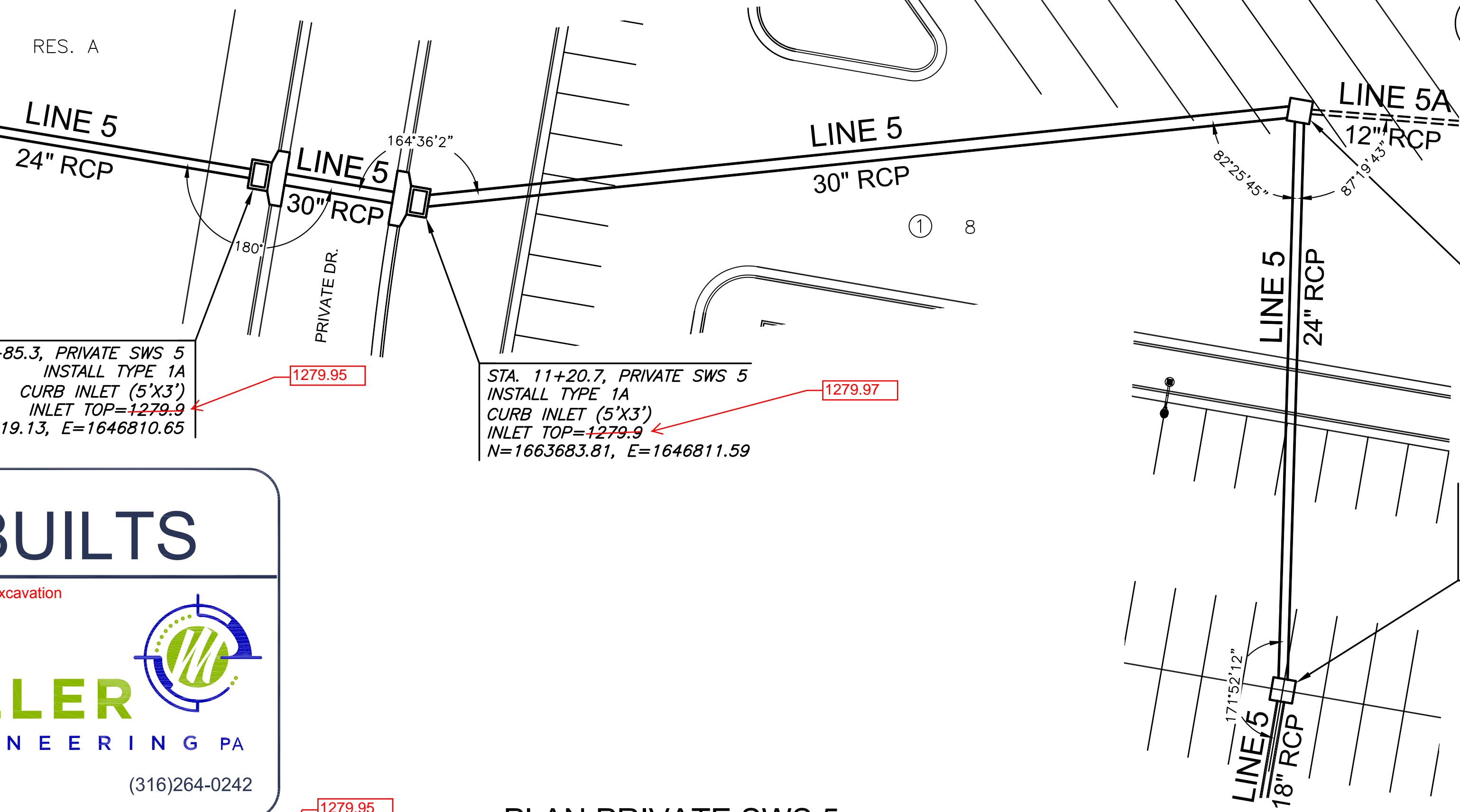
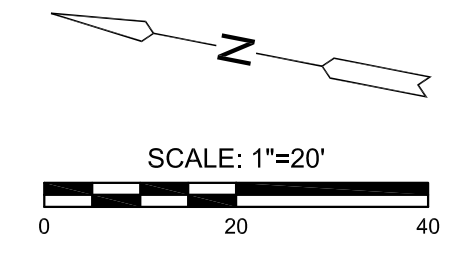
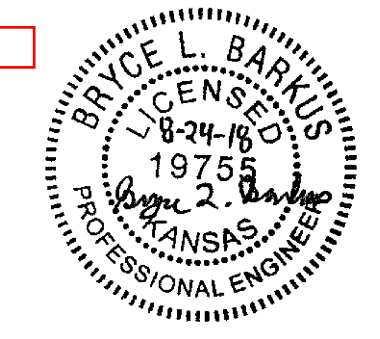
AS BUILTS

Contractor: McCullough Excavation
Inspector: Matt Perez
Date: 1-21-19

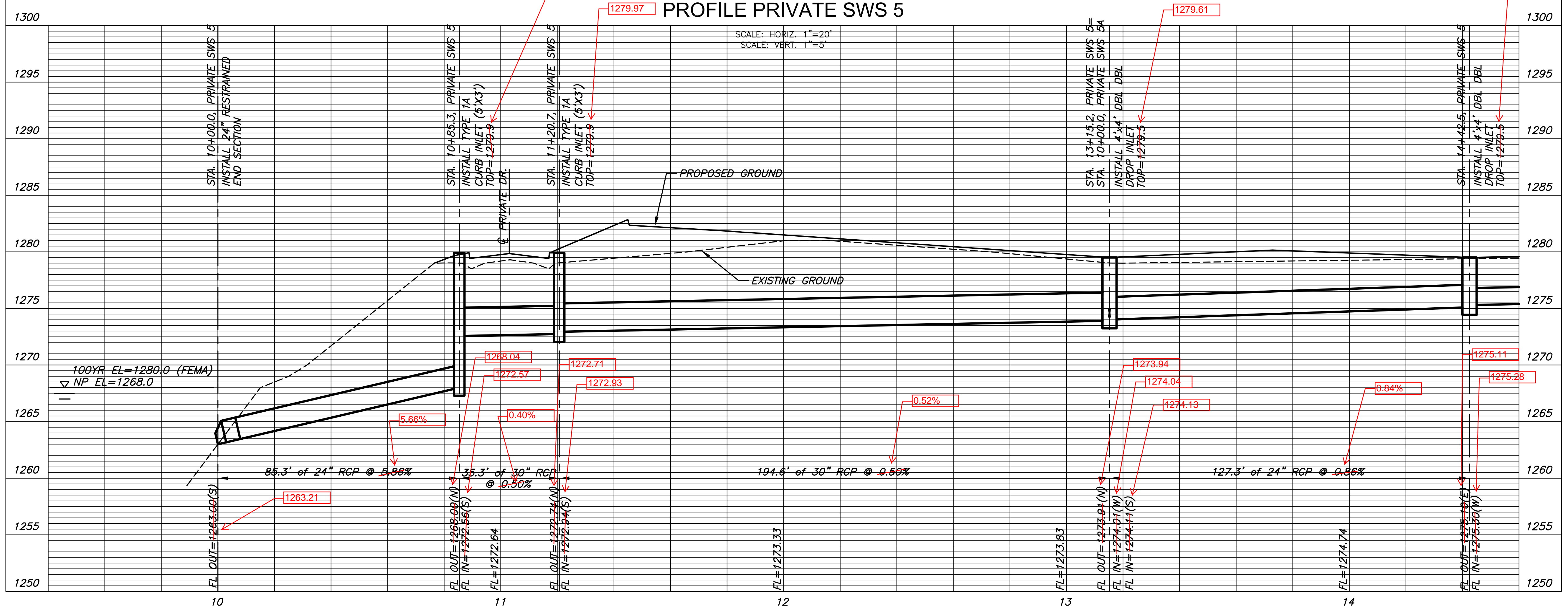
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NOTE:
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PLAN PRIVATE SWS 5
PROFILE PRIVATE SWS 5



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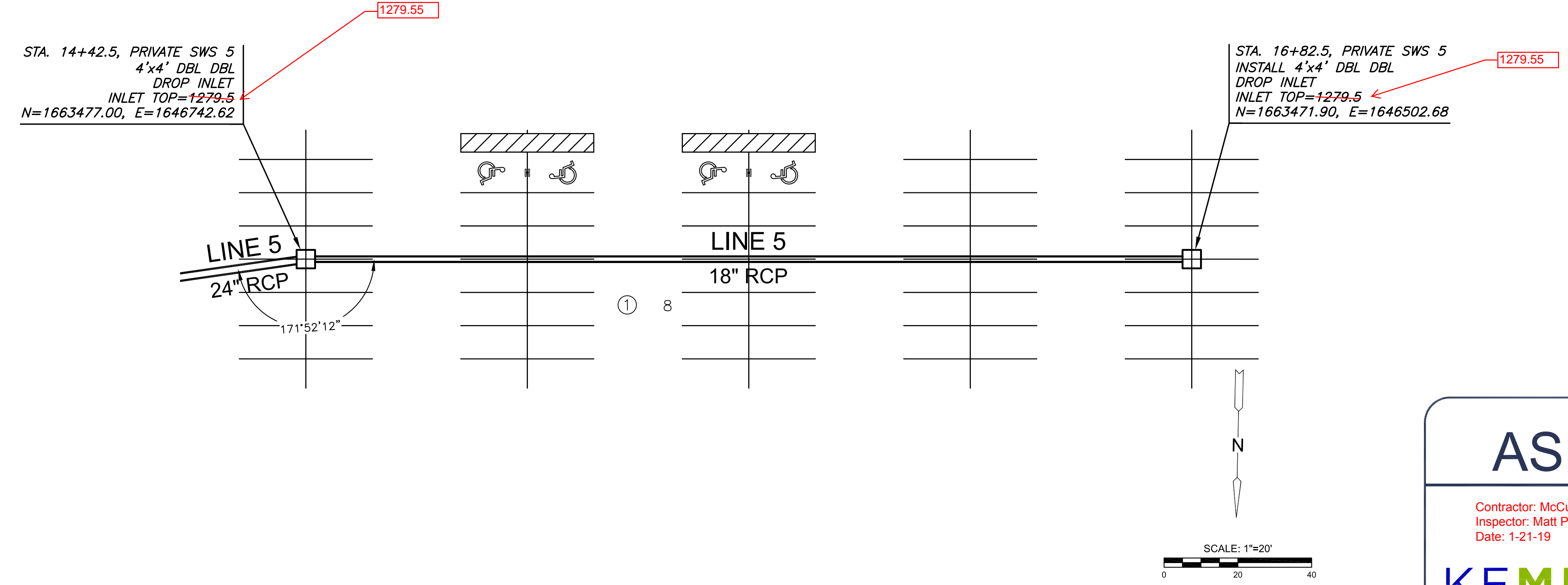
PRIVATE SWS LINE 5

PROJECT NO.	0539	
DATE	AUG. 2018	
SCALE	1"=20'	
DESIGNED	DRAWN	CHECKED
BLB	BKS	BLB

NO.	REVISION	DATE

PLOTTED: Friday, August 24, 2018 @ 10:48 AM

J:\PROJECTS\2017\1701010143_LANES_STEEPLE BAY_17143_CADD\SHOTS\06_CIVIL\SITE\SITE CIVIL\PP017143_SWS LINE 5 CONT.DWG

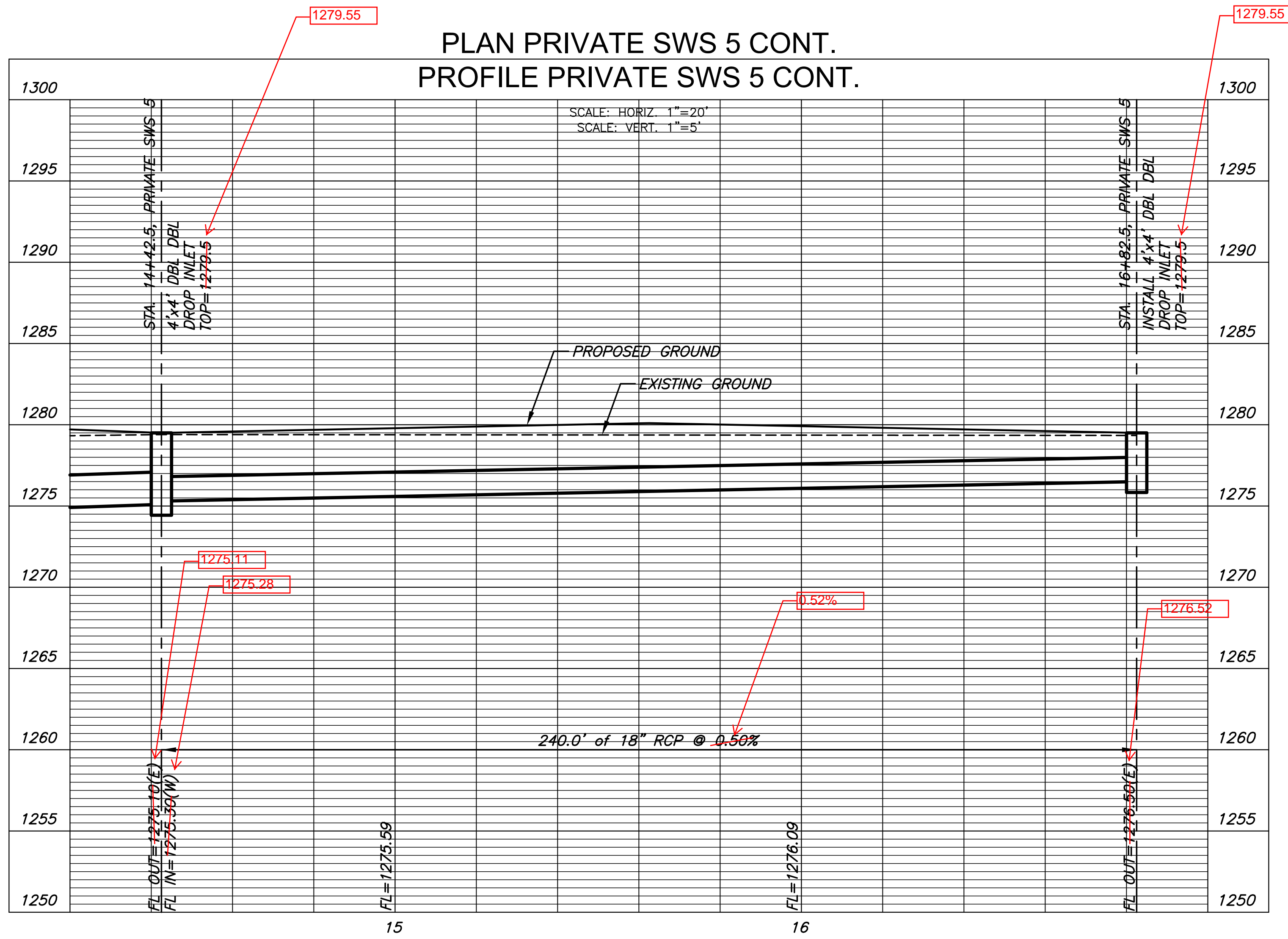


NOTE:
CONTRACTOR TO VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

AS BUILTS

Contractor: McCullough Excavation
Inspector: Matt Perez
Date: 1-21-19

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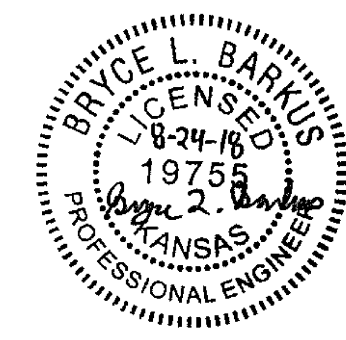


PRIVATE STORM WATER SEWER PLAN FOR
STEEPLE BAY
WICHITA, KS

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PRIVATE SWS LINE 5 CONT.

PROJECT NO.	0539	
DATE	AUG. 2018	
SCALE	1"=20'	
DESIGNED	DRAWN	CHECKED
BLB	BKS	BLB

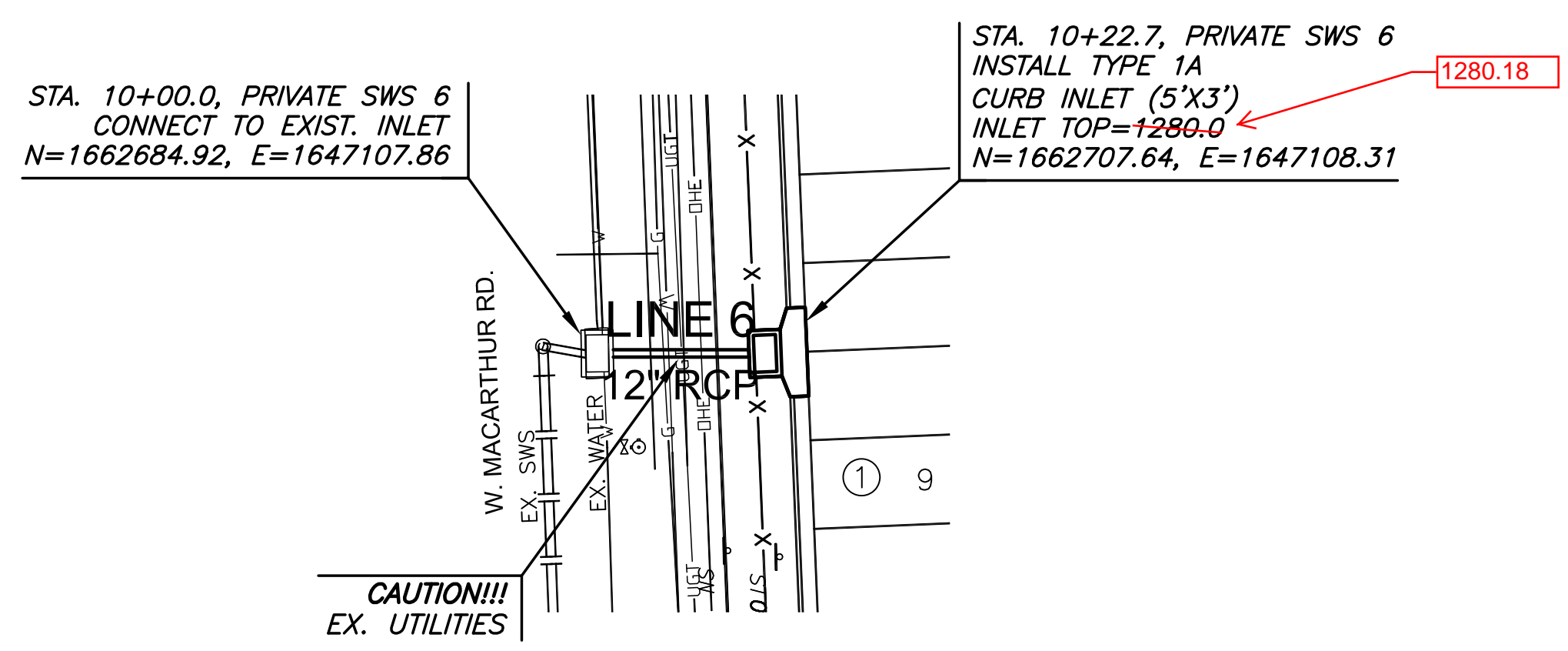
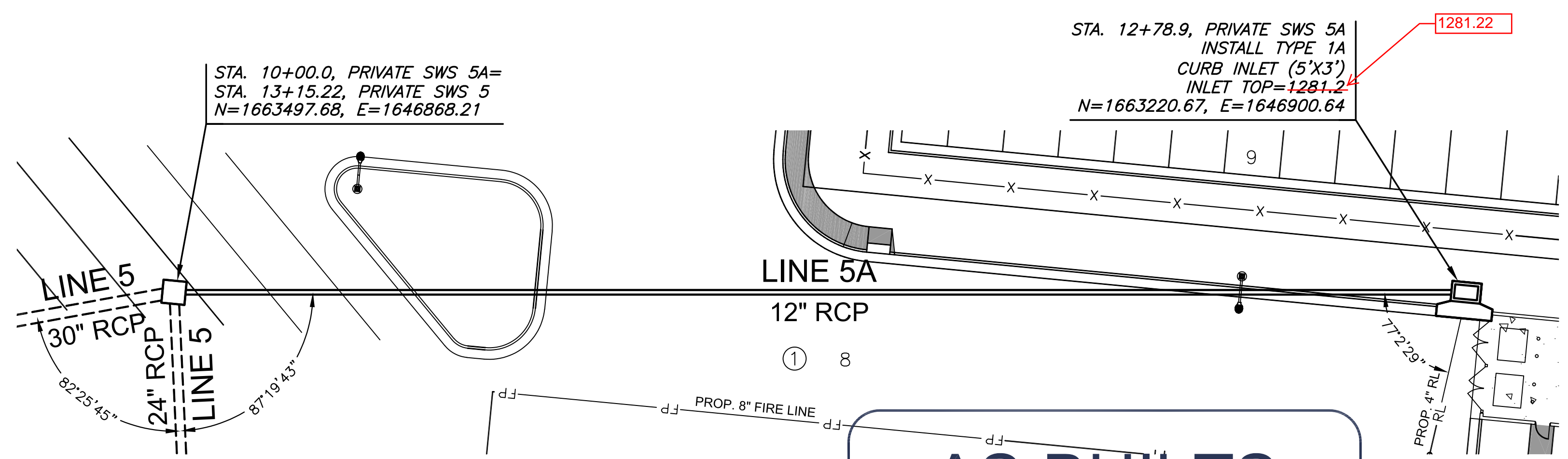


NO.	REVISION	DATE

SHEET NO.
15 OF 17

PLOTTED: Friday, August 24, 2018 @ 10:56AM

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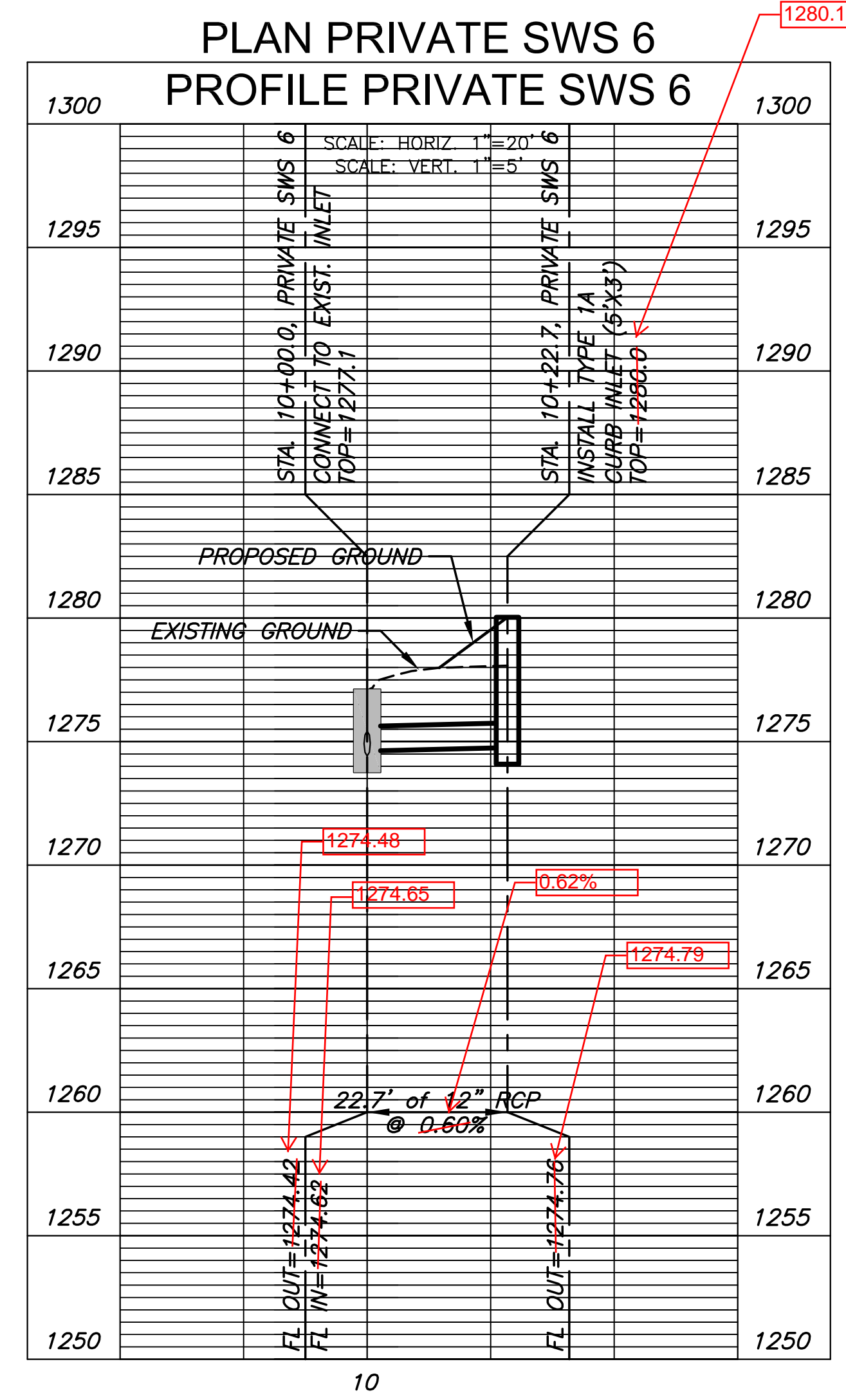
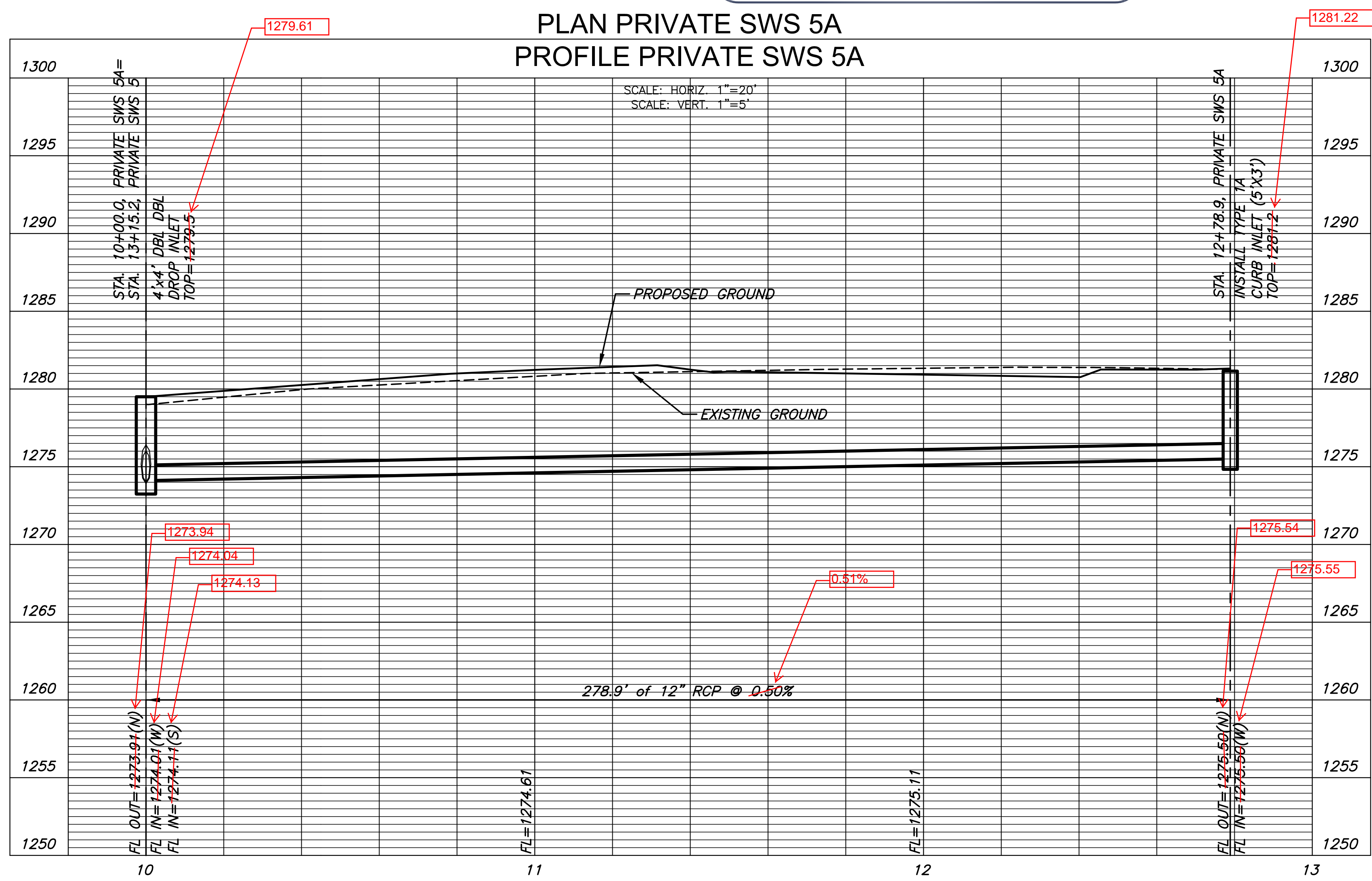
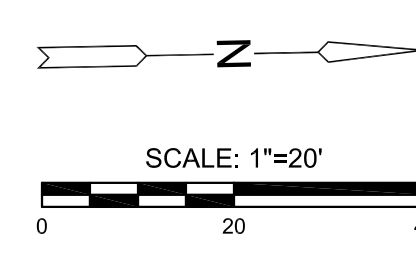


NOTE:
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Contractor: McCullough Excavation
Inspector: Matt Perez
Date: 1-21-19

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PRIVATE STORM WATER SEWER PLAN FOR
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PRIVATE SWS LINES 5A & 6

PROJECT NO.	0539	
DATE	AUG. 2018	
SCALE	1"=20'	
DESIGNED	DRAWN	CHECKED
BLB	BKS	BLB
NO.	REVISION	DATE

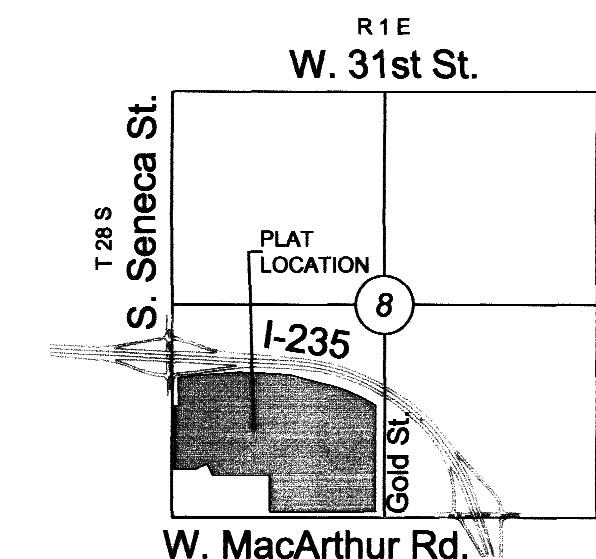
FINAL PLAT

STEEPLE BAY ADDITION

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

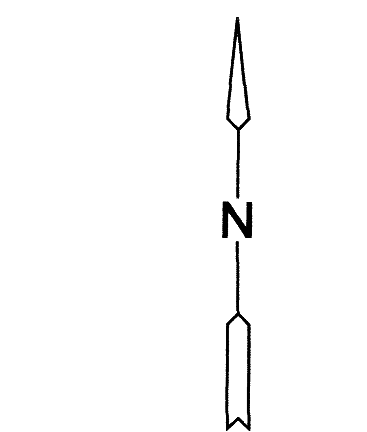
BENCHMARKS

- BM#1** North rim of sanitary sewer manhole on west side of Gold Street, 700 feet north of the intersection of Gold Street and MacArthur Road. 15 feet north of the north edge of access drive going west into mobile home park. 70 feet west of the west edge of Gold Street. Manhole top is 2.5 feet above existing ground. Elev.=1280.01 NAVD88
- BM#2** North rim of sanitary sewer manhole on east side of Seneca Street, 700 feet north of the intersection of Seneca Street and MacArthur Road. 5 feet north of the north edge of driveway. 25 feet east of the west edge of Seneca Street. Elev.=1278.68 NAVD88



VICINITY MAP

MINIMUM PAD ELEVATIONS LOWEST OPENINGS			
LOTS	BLOCK	ELEVATION	NAV82 88
1 - 7	1	1283.0	
8 - 11	1	1282.0	
1	2	1282.0	
1 - 2	3	1282.0	
1 - 5	4	1282.0	



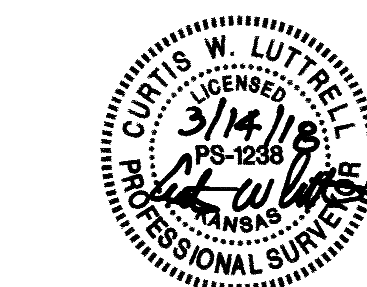
SCALE: 1" = 100'

Basis of Bearings: Kansas coordinate system of 1983 south zone bearing of S88°50'19"W on the south line of the Southwest Quarter, Section 8, Township 28 South, Range 1 East of the 6th Principal Meridian.

This plat is surveyed and platted on NAD83 using Kansas state plane south zone coordinates, modified to the surface, having a combined adjustment scale factor of 1.000120014401728

LEGEND

- Date of Survey: 9/1/2017
- △ = Section Corner Monument Found
 - = Found monument (see annotation for type)
 - = Set 3/4" rebar w/ MKEC CLS 39 kd. cap (or see annotation for type)
 - ⊕ = Benchmark
 - (M) = Measured
 - (D) = Described
 - (P) = Platted
 - (CM) = Calculated from Measurement
 - (CD) = Calculated from Described
 - ① = Lot
 - ② = Block



PRIVATE STORM WATER SEWER PLAN FOR

STEEPLE BAY

WICHITA, KS

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FINAL PLAT

PROJECT NO.	0539	
DATE	AUG. 2018	
SCALE	NTS	
DESIGNED	DRAWN	CHECKED
BLB	BKS	BLB

NO.	REVISION	DATE
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SHEET NO.

PLOTTED: Friday, August 24, 2018 @ 10:50AM

Steeple Bay Addition (SUB2017-00041)

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