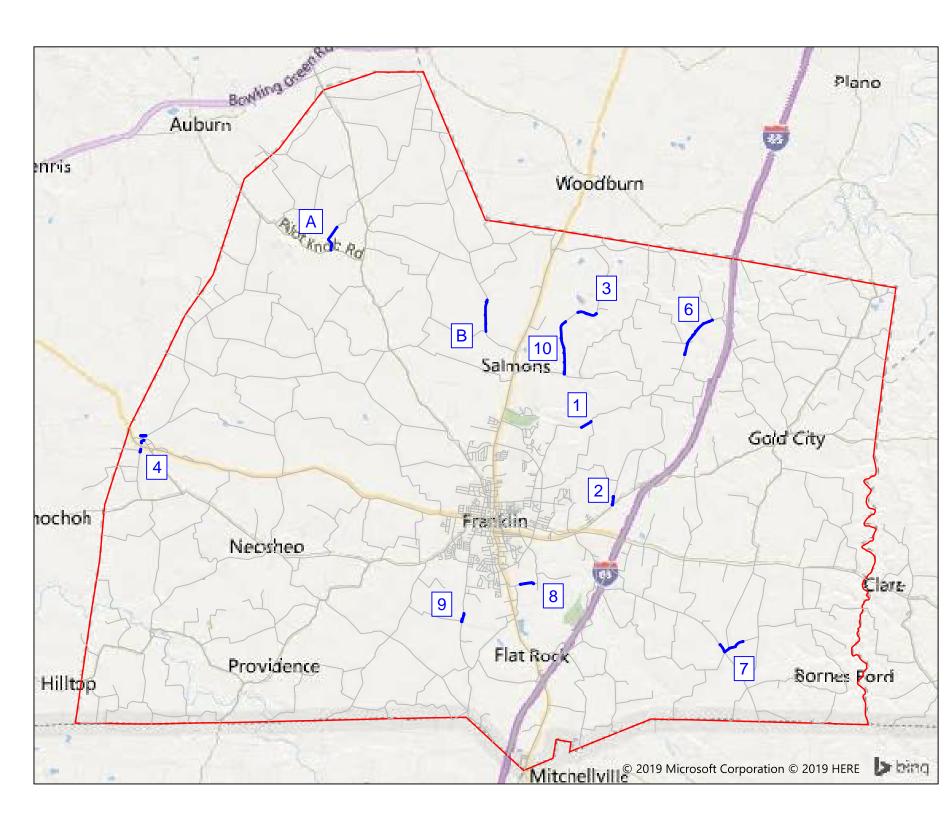
WATER LINE REPLACEMENTS & EXTENSIONS

50% OF PROJECT FUNDING PROVIDED BY: USDA-RD



VICINITY MAP (N.T.S.)

GENERAL NOTE: ALL LINES INSTALLED IN COUNTY RIGHT-OF-WAY SHALL BE INSTALLED WITH A MINIMUM COVER OF 36".

EROSION CONTROL NOTE: EROSION CONTROL MEASURES SHALL BE UTILIZED AS REQUIRED BY PROVIDED SWPPP DOCUMENTATION AND BEST PRACTICES MANUAL FOR BOWLING GREEN, KY.





INDEX OF DRAWINGS

SHEET#	DESCRIPTION
1	LINE 1 - BLACKJACK ROAD #1
2	LINE 2 - ROARK ROAD
3 - 4	LINE 3 - SPORTSMAN LAKE ROAD #1
5	LINE 4 - RUTHERFORD ROAD
6 - 7	LINE 6 - BLACKJACK ROAD #2
8 - 9	LINE 7 - ROUND POND CHURCH ROAD
10	LINE 8 - MACEDONIA ROAD
11	LINE 9 - WITT ROAD
12 - 14	LINE 10 - SPORTSMAN LAKE ROAD #2
15	LINE A - ALBERT ELLIOTT ROAD
16 - 17	LINE B - STEVENSON ROAD
18 - 19	CREEK CROSSING DETAIL SHEETS
WD	WATER DETAIL SHEET
ECP	EROSION CONTROL DETAIL SHEET

523 US Hwy 31-W Bypass / P.O. Box 10180 Bowling Green, KY 42102-4780 TEL 270.842.0052 FAX 270.842.8360 www.warrenwater.com

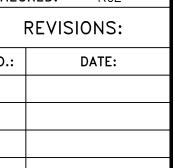


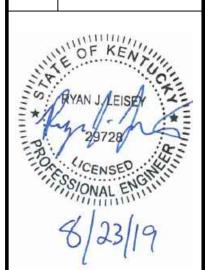




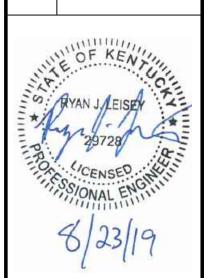
2

SCALE: 1"=50' **DATE:** 8/23/19 **PROJECT #:** 13660 DESIGNED: TKM CHECKED: RJL **REVISIONS:**



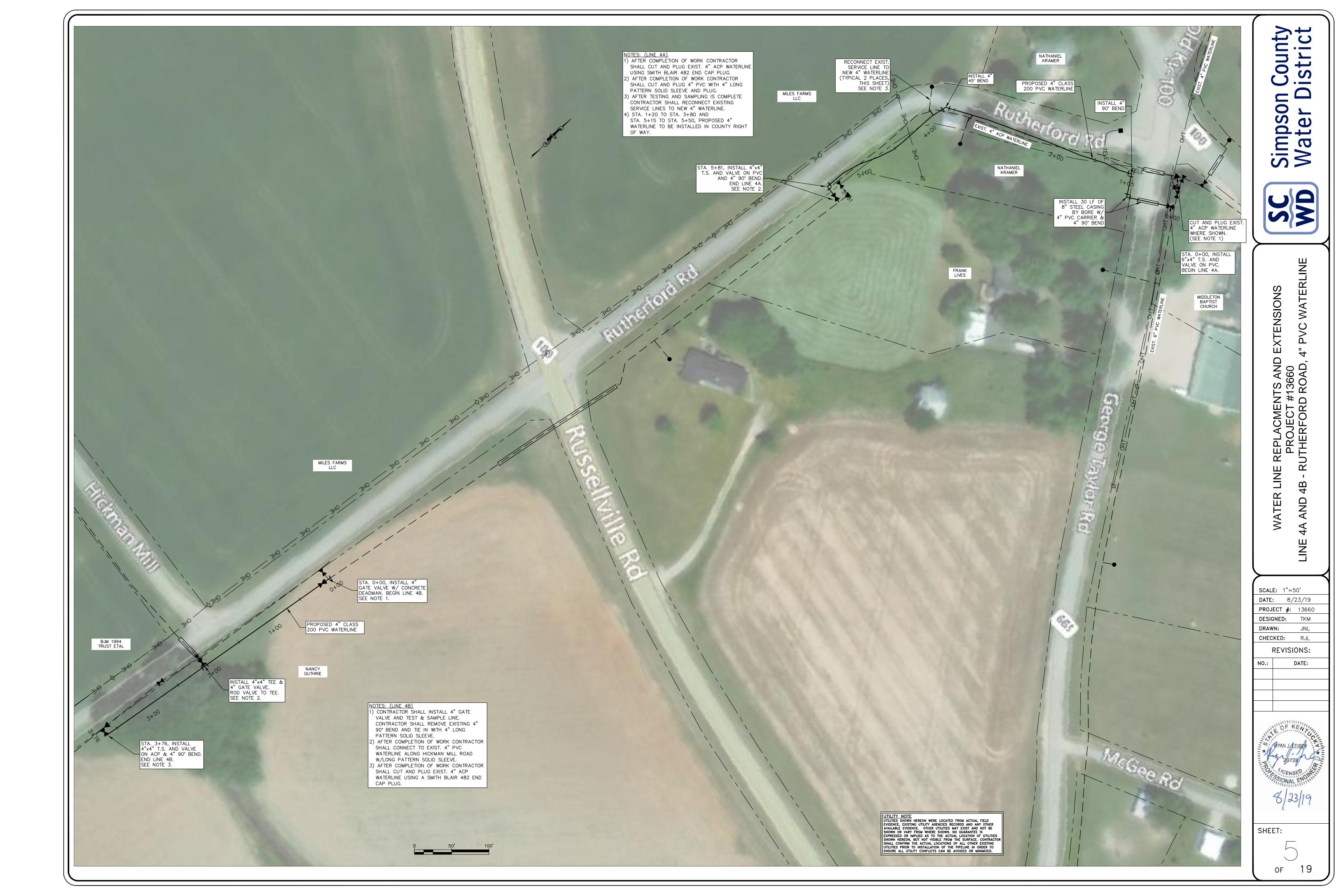




























EXTENSIONS Simpso

SCALE: 1"=50'

DATE: 8/23/19

PROJECT #: 13660

DESIGNED: TKM

DRAWN: JNL

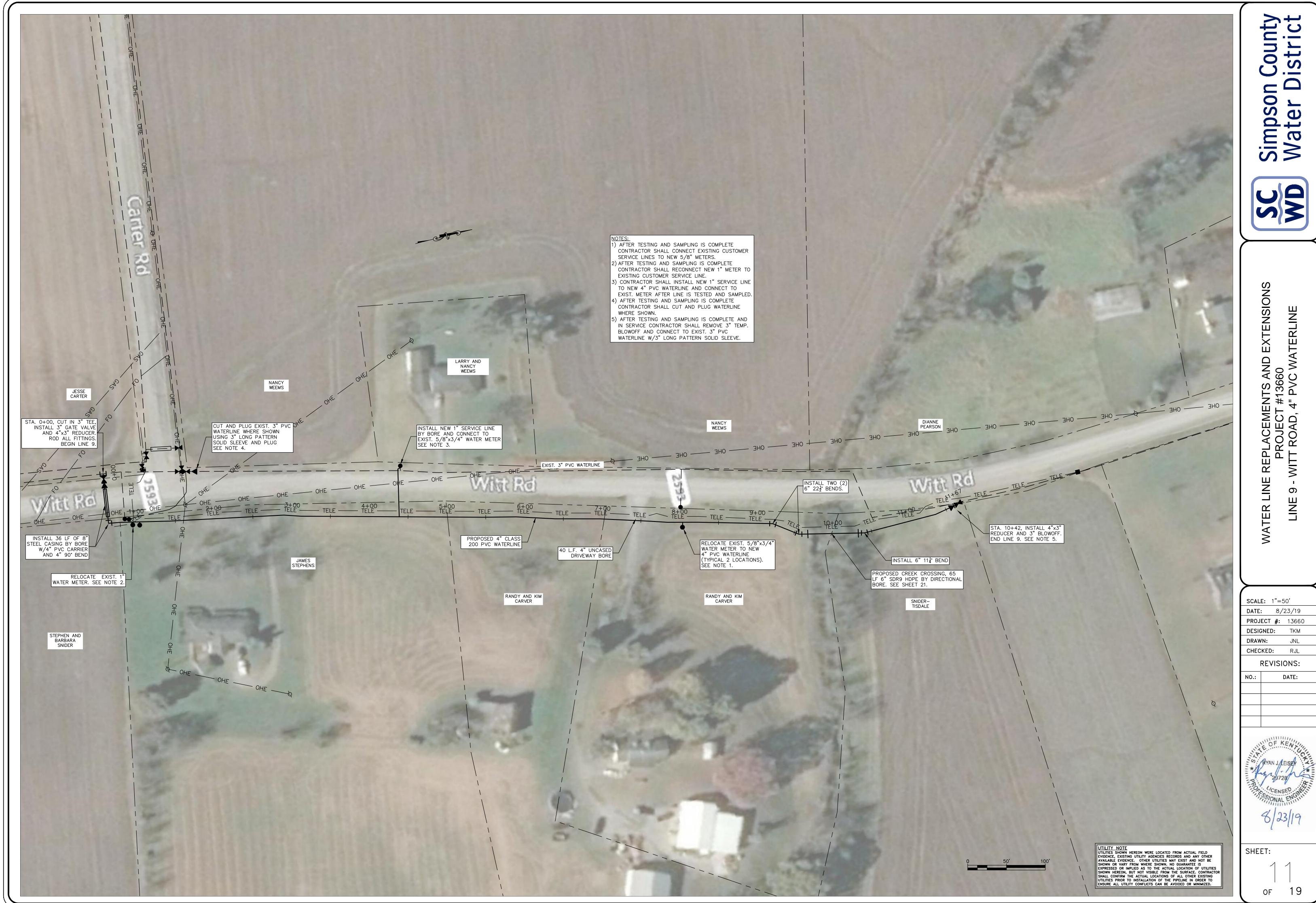
CHECKED: RJL

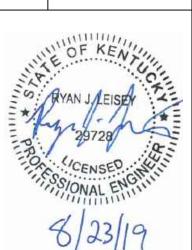
REVISIONS:

NO.: DATE:

OF KENTON JEISEN 29728 CENSED WILLIAM SIJONAL ENGINEERS OF THE STATE O









ounty strict 0



WATERLINE

ENSIONS

0 $\overline{}$ **SCALE:** 1"=50' **DATE:** 8/23/19 **PROJECT #:** 13660 DESIGNED:

DRAWN:

CHECKED: RJL

REVISIONS:

DATE:



Simpson County Water District



REPLACEMENTS AND EXTENSIONS
PROJECT #13660
SMAN LAKE ROAD, 6" PVC WATERL

SCALE: 1"=50'

DATE: 8/23/19

PROJECT #: 13660

DESIGNED: TKM

DRAWN: JNL

CHECKED: RJL

REVISIONS:

NO.: DATE:

0



SHEET:

1 3 of 19



Simpson County Water District



WATER LINE REPLACEMENTS AND EXTENSIONS PROJECT #13660 LINE 10 - SPORTSMAN LAKE ROAD, 6" PVC WATERL

SCALE: 1"=50'

DATE: 8/23/19

PROJECT #: 13660

DESIGNED: TKM

DRAWN: JNL

CHECKED: RJL

REVISIONS:

NO.: DATE:



SHEET:

1 4 of 1

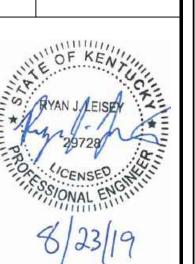


WATERLINE TENSIONS PVC ALBER⁻ LINE TER

Simpso Water

0

SCALE: 1"=50' **DATE:** 8/23/19 **PROJECT #:** 13660 **DESIGNED:** DRAWN: JNL CHECKED: RJL **REVISIONS:** DATE:







ATER LINE REPLACEMENTS AND EXTENSIONS
PROJECT #13660
NE B - STEVENSON ROAD, 6" PVC WATERLINE

SCALE: 1"=50'

DATE: 8/23/19

PROJECT #: 42518

DESIGNED: TKM

DRAWN: JNL

CHECKED: RJL

REVISIONS:

NO.: DATE:

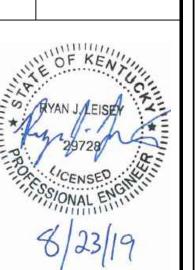


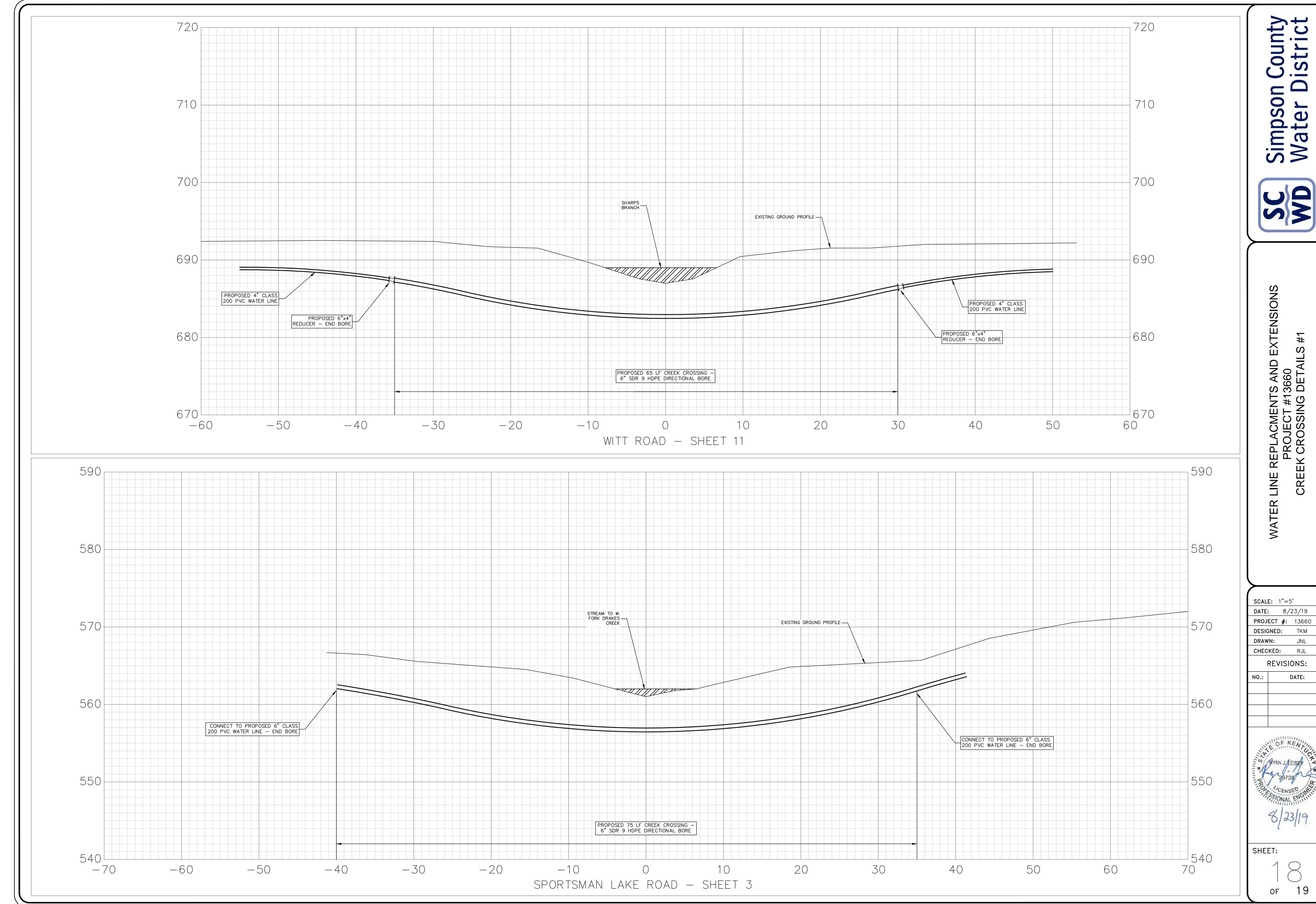
SHEET:

OF 1





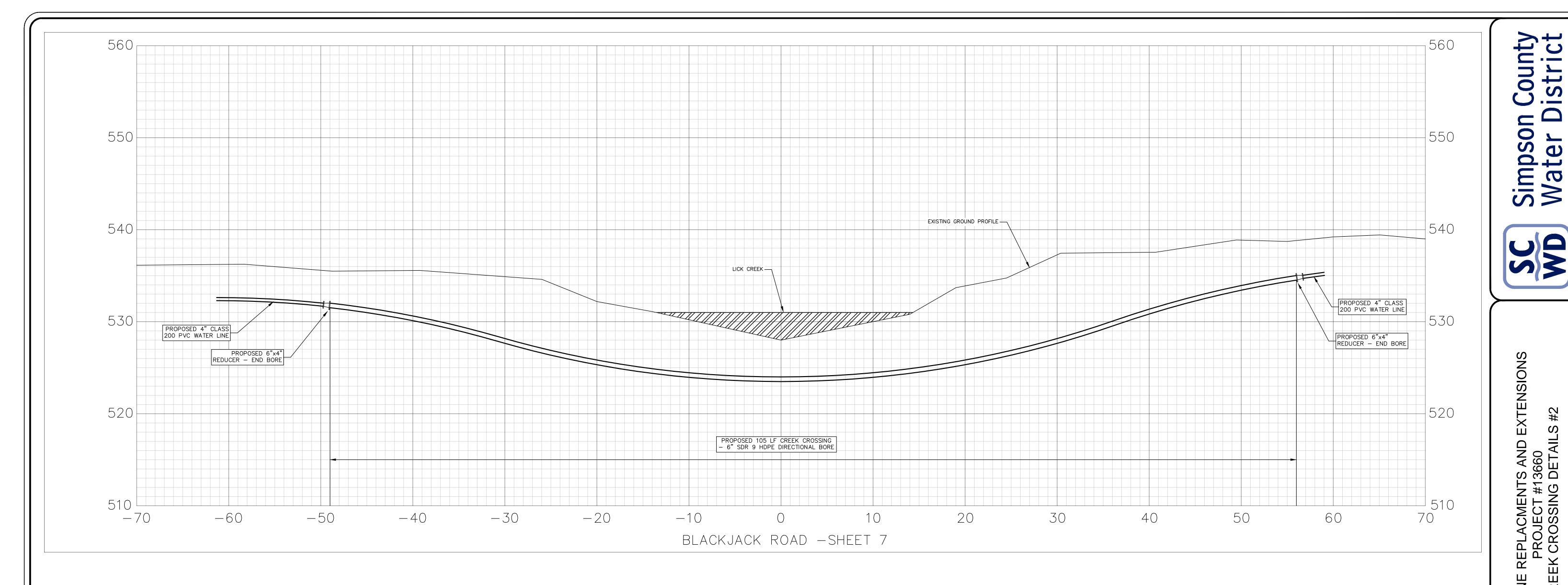






PROJECT #: 13660







EXTENSIONS

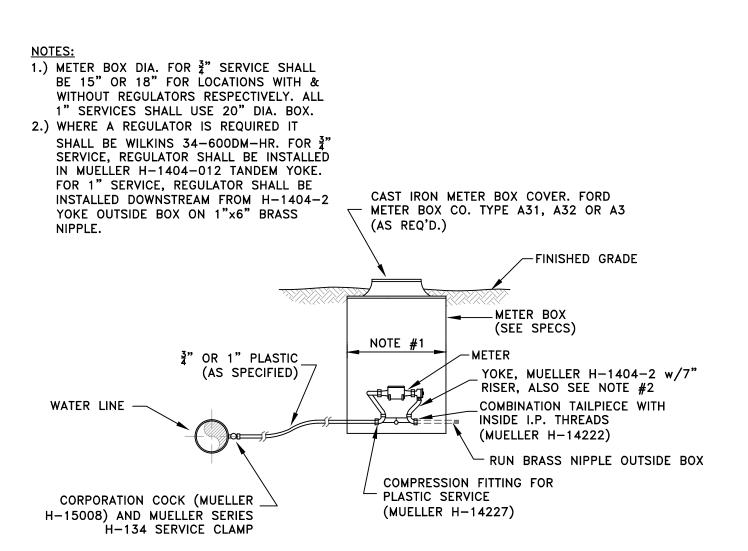
County istrict

<u></u>		_	1
			1
SCAL	E: 1"=5	5'	
DATE	: 8/	23/19	
PROJ	ECT #:	13660	
DESIG	GNED:	TKM	
DRAW	/N:	JNL	
CHEC	KED:	RJL	
	REVISI	ONS:	
NO.:		DATE:	

	11211	OF K	ENT	11,	
SYL	AV	AN JA	A	C.	EL
= 1 :	1/	1/	11	1	



DRAWING:



TYPICAL METER SETTING FOR ¾" & 1" SERVICES

REPNET VALVE MARKERS.

POSTS w/WARNING SIGNS

FINISHED GRADE -

- CAST IRON VALVE BOX

— WATER LINE

CONCRETE KICKER

STICKER NO. SD-5386R BLUE

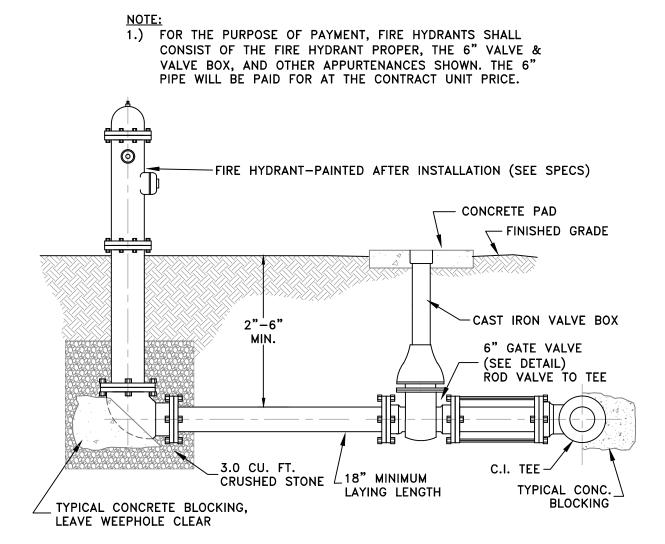
2-#4 BARS

ALL AROUND

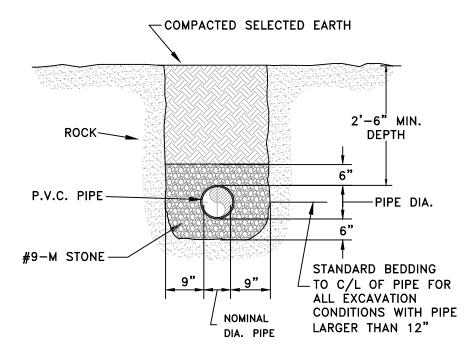
18" MINIMUM

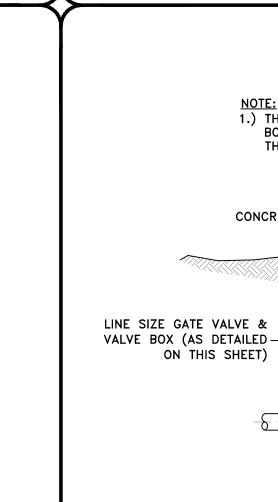
LAYING LENGTH

CONCRETE PAD TO BE PLACED AT ALL VALVES

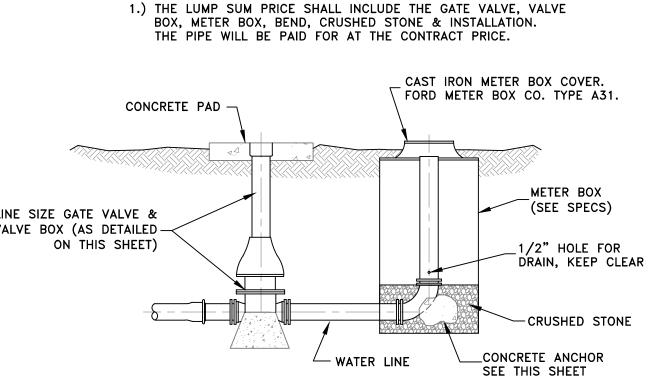


TYPICAL FIRE HYDRANT <u>SETTING</u>



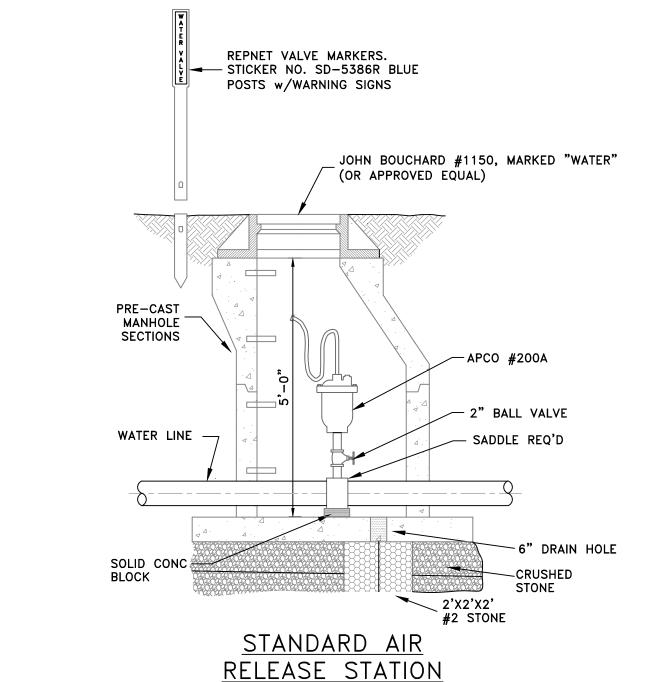


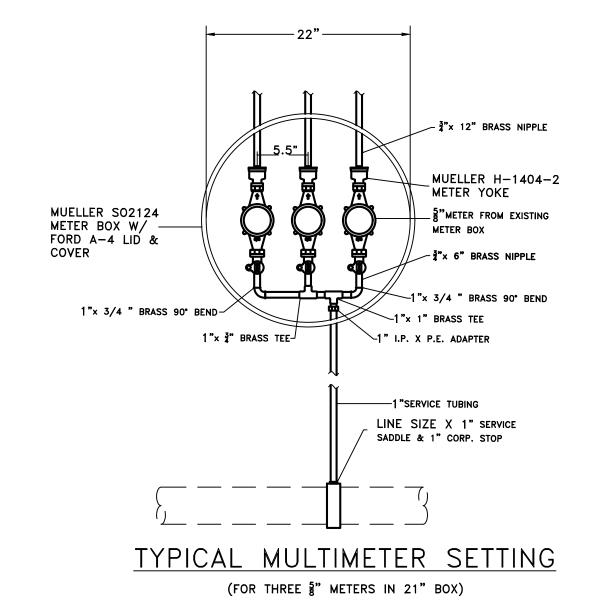
TYPICAL LINE VALVE SETTING



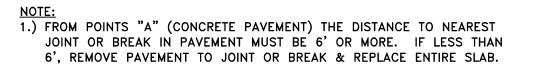
STANDARD DETAIL END OF LINE BLOW-OFF (SIDE OUTLET BLOWOFFS SHALL BE AS SHOWN, BUT LUMP SUM PRICE SHALL ALSO INCLUDE MAIN LINE TEE. GATE VALVE AND BLOWOFF PIPING SIZE SHALL

BE AS INDICATED IN THE DRAWINGS.)





ALL PIPING SHOWN INSIDE BOX SHALL BE BRASS WITH THE LENGTHS OF THE BRASS NIPPLES BETWEEN THE TEES AND 90° BENDS AS NEEDED TO MEET THE CENTERLINE MEASUREMENTS AS INDICATED.

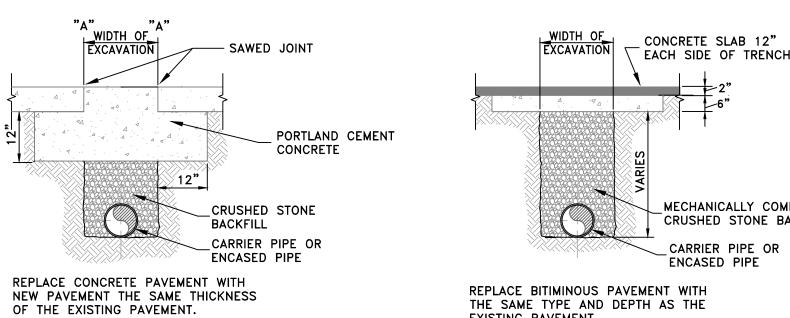


EXISTING PAVEMENT.

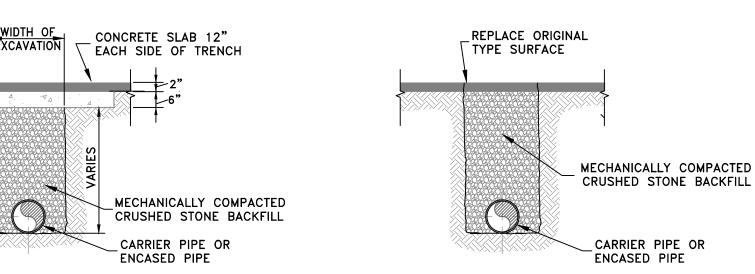
BITIMINOUS SURFACE > 2"

SURFACE RESTORATION

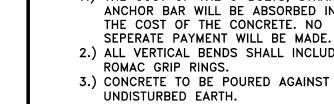
(FOR CROSSING OF ALL STREETS & HIGHWAYS)



CONCRETE PAVEMENT



BITIMINOUS SURFACE < 2" (ALSO APPLIES TO ASPHALT DRIVEWAYS)



- BETWEEN ALL CONCRETE AND PIPE
- DIAMETER. THAT SHOWN FOR PLUGS, BUT THE "L" DIMENSION SHALL BE AS REQUIRED FOR
- SHALL BE AS FOLLOWS: 4" USE 2 ENGINEER.

NOTES:
1.) THE COST OF THE U-BOLTS, STRAPS &
ANCHOR BAR WILL BE ABSORBED INTO
THE COST OF THE CONCRETE. NO
SEPERATE PAYMENT WILL BE MADE.
2.) ALL VERTICAL BENDS SHALL INCLUDE
DOMAC CDID DINCS

- 5.) ANCHOR BAR SHALL BE 5/8" MINIMUM 6.) BLOCKING FOR REDUCER SHALL BE AS
- THE KICKER TO EXTEND SIDE OF THE TRENCH. 7.) RODDING FOR A CONCRE

D C" INTO FACIL	L	20	24	20		
D 6" INTO EACH	"W"	18	20	22	24	24
RETE DEADMAN	"T"	12	14	16	18	18
RODS, 6"-10" USE 4 RODS 8	c 12"	PER				
				TE	ES,	PLU
	SIZE	2	4	6	8	10

	TEES, PLUGS & BLOWOFFS											
SIZE	2	4	6	8	10	12	14	16	18	20	24	30
"D"	12	16	18	24	28	30	30	30	30	30	30	36
"L"	12	16	18	24	28	30	60	60	72	72	84	102
"W"	14	16	18	18	22	24	28	28	32	32	40	51
"T"	10	10	12	12	12	12	38	38	40	40	44	52

VALVES 10" & LARGER

90° BENDS

"L" | 16 | 20 | 24 | 30 | 32 | 34 | 68 | 68 | 80 | 80 | 96 | 120 "W" 8 10 12 18 22 24 34 34 40 40 48 60

"T" 10 12 16 20 22 22 38 38 40 40 44 52

45° BENDS SIZE 2 4 6 8 10 12 14 16 18 20 24 30

"D" 6 6 8 10 12 12 22 22 24 24 30 30

"L" | 14 | 18 | 18 | 22 | 24 | 24 | 51 | 51 | 60 | 60 | 72 | 90

"W" 8 10 12 16 18 18 25 25 29 29 36 44

"T" 10 12 16 18 18 18 38 38 40 40 44 52

22 1/2° & 11 1/4° BENDS

SIZE 2 4 6 8 10 12 14 16 18 20 24 30

"D" 6 10 14 18 20 20 22 22 24 24 30 30

SIZE 2 4 6 8 10 12 14 16 18 20 24 30 "D" 6 8 8 10 12 14 22 22 24 24 30 30

MINIMUM CONCRETE BLOCKING FOR PIPE & FITTINGS

4.) PLASTIC BARRIER SHALL BE PLACED

AND/OR FITTINGS.

"L" 20 24 28 28 28 28 36 36 42 42 54 66 4 24 18 18 21 21 24 31 3 | 18 | 38 | 38 | 40 | 40 | 44 | 52

-3/8"x2" STEEL STRAPS

SIDE OF_ TRENCH

TOP VIEW

┌SIDE OF TRENCH

TYPICAL ALL BENDS

<u>TEE</u>

CONCRETE DEADMAN

(SEE DETAIL)

SIDE OF TRENCH

VERTICAL BEND PIPE

ANCHOR DETAIL

CONCRETE DEADMAN

<u>DETAIL</u>

SECTION A-A

SIDE VIEW

TYPICAL SECTION

- SIDE OF TRENCH

- SIDE OF TRENCH

_BOTTOM OF TRENCH

*ALL DIMENSIONS ARE IN INCHES

TYPICAL STONE ENVELOPE FOR LARGE PIPE OR ROCK **EXCAVATION** (MAY PAY QUANTITIES IN ROCK)

CULVERT

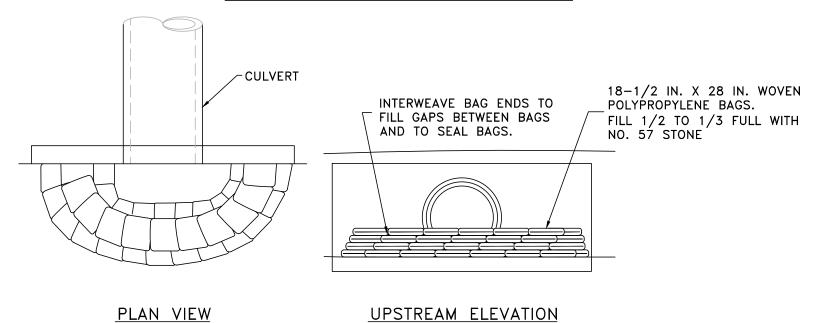
INTERWEAVE BAG ENDS TO
FILL GAPS BETWEEN BAGS
AND TO SEAL BAGS.

FILL 1/2 IN. X 28 IN. WOVEN
POLYPROPYLENE BAGS.
FILL 1/2 TO 1/3 FULL WITH
NO. 57 STONE

PLAN VIEW

<u>UPSTREAM ELEVATION</u>

NO HEADWALL INLET PROTECTION



STRAIGHT HEADWALL INLET PROTECTION

PURPOSE:
INSTALL STONE BAG PROTECTION AT HEADWALL INLETS TO POOL WATER, PROVIDING OPPORTUNITY FOR SETTLING SEDIMENT BEFORE IT ENTERS HEADWALL.

CONSTRUCTION:

DIAMETER OF THE CULVERT BEING PROTECTED.

BAG SPECIFICATIONS: APPROXIMATELY 18 1/2-INCH X 28-INCH WOVEN POLYPROPYLENE BAGS. STONE: USE KTC NO. 57 STONE. HEIGHT OF STONE BAGS ABOVE CULVERT INVERTS: CONSTRUCT A MINIMUM OF TWO COURSES OF BAGS. THE STONE-FILLED BAGS SHALL BE STACKED TO A HEIGHT EQUAL TO 1/2 THE

END POINTS "A" TO BE HIGHER
THAN FLOW-LINE POINT "B"

C
SEE
PLAN
B

1'-0"MIN.
C
FRONT VIEW

ATTACH FILTER

FOLD FABRIC TO OVERLAP AND SECURE TO POST WITH STAPLES

FABRIC TO FRAME AND POSTS SECURE WITH STAPLES @ 8IN.(MAX) O.C.

2IN. X 4IN WOOD FRAME

2IN. X 4IN WOOD POSTS

ESCAPING UNDER FENCE.

BURY TOE OF FABRIC IN A 6" X 6" TRENCH,

IN AN "L" SHAPE. BACKFILL WITH COMPACTED

FILL MATERIAL TO PREVENT SEDIMENT FROM

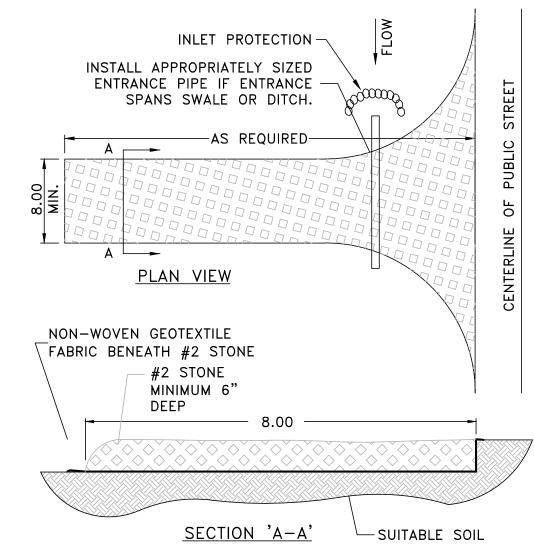
FILTER FABRIC INLET PROTECTION DETAIL

(N.T.S.)

3' MIN.

3" MINIMUM RIP-RAP
SET IN 4" DEEP TRENCH
A
B
B
SECTION 'C-C'

RIP-RAP CHECK DAM (N.T.S.)



GENERAL EPSC NOTES:

CONSTRUCTION SITE(S).

STOCKPILES, AS REQUIRED.

1. ALL PRACTICAL MEASURES SHALL BE TAKEN TO PRESERVE

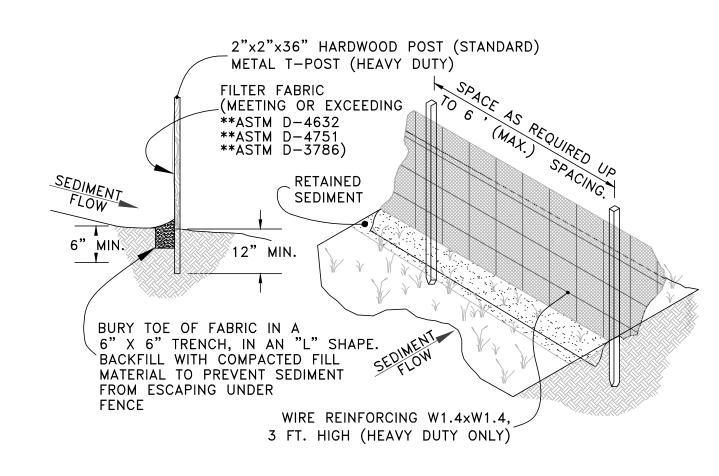
2. EPSC MEASURES SHALL BE INSTALLED IN ADVANCE OF ALL OTHER CONSTRUCTION IN EACH AREA OF CONSTRUCTION.
 3. SILT FENCING OR OTHER APPROVED EPSC DEVICE(S) SHALL BE INSTALLED ON THE DOWN-SLOPE SIDE OF TEMPORARY

EXISTING VEGETATION ON AND ADJACENT TO THE

4. APPROPRIATE EPSC DEVICES SHALL BE INSTALLED AT TEMPORARY PIPE YARDS AND/OR STORAGE AREAS, AS

ALL ENTRANCES LEADING TO PUBLIC ROADS SHALL BE STABILIZED, IF SILT FENCE WILL BE DEPOSITED ON ROADWAY, BY REMOVING THE VEGETATION, PLACING NON-WOVEN GEO-TEXTILE MATERIAL AND THEN PLACING 6 INCHES OF #2 AGGREGATE. AREA MUST BE A MINIMUM OF 8 FEET WIDE.

STABILIZED CONSTRUCTION ENTRANCE DETAIL (N.T.S.)



SILT CONTROL FENCE DETAIL (N.T.S.)

DWG NO.: WD

DESIGNED: WCWD

DRAWN: JT

CHECKED: JES

REVISIONS:

NO.: DATE:

SCALE: NOT TO SCALE

DATE: 1-30-08

