TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-1

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00

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ESTIMATED UTILITY QUANTITIES

Project No. 1: 47023-3261-14

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	% Utility Betterment	%Project Public	%Project Private
1	795-01.04	6IN DIP SLIP JOINT WATER LINE	LF	672		100.00%	
1	795-01.05	8IN DIP RESTRAINED JOINT WATER LINE	LF	165		100.00%	
1	795-01.06	8IN DIP SLIP JOINT WATER LINE	LF	12337		100.00%	
1	795-01.10	12IN DIP SLIP JOINT WATER LINE	LF	473		100.00%	
1	795-01.19	24IN DIP RESTRAINED JOINT WATER LINE	LF	4227		100.00%	
3	795-06.03	CONNECT TO 4IN WATER LINE	EA	1		100.00%	
3	795-06.04	CONNECT TO 6IN WATER LINE	EA	10		100.00%	
3	795-06.05	CONNECT TO 8IN WATER LINE	EA	9		100.00%	
3	795-06.06	CONNECT TO 10IN WATER LINE	EA	1		100.00%	
3	795-06.12	CONNECT TO 24IN WATER LINE	EA	4		100.00%	
5	795-08.04	6IN GATE VALVE ASSEMBLY	EA	4		100.00%	
5	795-08.05	8IN GATE VALVE ASSEMBLY	EA	57		100.00%	
5	795-08.09	12IN GATE VALVE ASSEMBLY	EA	2		100.00%	
5	795-08.19	24IN BUTTERFLY VALVE ASSEMBLY	EA	16		100.00%	
6	795-09.01	3/4IN WATER SERVICE METER ASSEMBLY	EA	113		100.00%	
7	795-09.15	1IN HDPE SERVICE PIPE	LF	3320		100.00%	
7	795-09.18	3IN HDPE SERVICE PIPE	LF	40		100.00%	
6	795-10.05	2IN AUTO AIR RELEASE VALVE ASSEMBLY	EA	3		100.00%	
6	795-11.02	FIRE HYDRANT ASSEMBLY	EA	18		100.00%	
9	795-12.01	REMOVE FIRE HYDRANT	EA	22		100.00%	
9	795-12.02	REMOVAL OF EXISTING LINE	LS	1		100.00%	
12	795-13.01	DI FITTINGS	LB	33000		100.00%	
11	795-15.12	42IN STEEL CASING PIPE OPEN CUT METHOD	LF	232		100.00%	
	795-15.50	MICRO TUNNELING (ROCK) W/48IN STEEL CASING	LF	165		100.00%	

FOOTNOTES

1 INCLUDES ALL MATERIALS, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, MATERIALS, EQUIPMENT, EXCAVATION IN BOTH UNCONSOLIDATED AND ROCK, REMOVAL AND REPLACEMENT OF UNSUITABLE SOIL, ENVELOPE/BEDDING MATERIAL, BACKFILLING, FLOWABLE FILL, THRUST BLOCKING, CONCRETE DEADMAN, PIPE FUSION, TRACER WIRE, WARNING TAPE, APPURTENANCES, TEMPORARY/PERMANENT SHORING, MAINTAINING THE TRENCH, TESTING, FLUSHING, DISINFECTION, BACTERIOLOGICAL SAMPLING, TEMPORARY/PERMANENT SURFACE RESTORATION, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS.

3 INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING WATER LINE INCLUDING TRAFFIC CONTROL

5 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO FITTINGS, VALVE, VALVE STEM EXTENSIONS, VALVE BOX AND COVER, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING, AND TRAFFIC CONTROL.

6 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED IN THE PLANS AND SPECS EXCEPT FOR SERVICE LINE WHICH IS PAID SEPARATELY FOR EACH FOOT INSTALLED.

7 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF SERVICE LINE OR CASING FOR SERVICE LINE ON LONG SIDE AND SHORT SIDE OF MAIN.

9 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR REMOVAL OF ITEM

11 INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT,

12 INCLUDES FITTINGS, GLANDS AND RESTRAINT DEVICES DESCRIBED IN POUNDS.

UTILITY COMPANY CONTACT

KNOXVILLE UTILITIES BOARD
P.O. BOX 59017
4505 MIDDLEBROOK PIKE
KNOXVILLE, TN. 37950
CONTACT: BILL GRADY - 865-558-2738

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

ESTIMATED QUANTITIES

2/4/2016
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-2

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00

GENERAL NOTES:

1. ALL CORRESPONDENCE TO TDOT SHALL BE ADDRESSED TO TENNESSEE DEPARTMENT OF TRANSPORTATION, REGION 1, 7345 REGION LANE, KNOXVILLE, TENNESSEE 37914. A COPY OF ALL CORRESPONDENCE ADDRESSED TO TDOT SHALL BE COPIED TO THE UTILITY.
2. ALL CORRESPONDENCE, SUBMITTALS OR OTHER ITEMS ASSOCIATED WITH THE CONTRACT SHALL BE IDENTIFIED WITH THE PROJECT OWNER, PROJECT NAME, AND TDOT PIN NUMBER AS LISTED IN THE CONTRACT DOCUMENTS.
3. CLEARING AND CLEANING OF PROJECT SITE OF PLANT LIFE AND DEBRIS SHALL BE UNDER GENERAL AGREEMENT WITH TDOT AND PRIME CONTRACTOR.
4. ALL EROSION AND SEDIMENTATION CONTROL OF PROJECT SITE SHALL BE UNDER GENERAL AGREEMENT WITH TDOT AND PRIME CONTRACTOR AND IN ACCORDANCE WITH TDEC PERMITS. UTILITY CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF WATER QUALITY PERMITS AND STORM WATER POLLUTION PREVENTION PLAN.
5. EXISTING UNDERGROUND INSTALLATIONS SUCH AS WATER LINES, GAS MAINS AND SEWERS ARE INDICATED ON THE DRAWINGS TO THE EXTENT THAT IS SHOWN ON THE TDOT SUPPLIED DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY AND COMPLETENESS OF SUCH INFORMATION AND ALL RESPONSIBILITY FOR ACCURACY IS EXPRESSLY DISCLAIMED. CONTRACTOR SHALL CONTACT TENNESSEE ONE CALL (DIAL 811) FOR ACTUAL EXISTING UTILITY LOCATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING ALL UNDERGROUND INSTALLATIONS. THE CONTRACTOR SHALL USE HIS OWN INFORMATION AND SHALL NOT RELY UPON INFORMATION INDICATED ON THE DRAWINGS CONCERNING EXISTING UNDERGROUND INSTALLATIONS.
6. IN THE EVENT OF DAMAGE TO EXISTING UTILITIES, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL REPAIRS AND RELATED EXPENSE.
7. ANY TEMPORARY OR PERMANENT PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH THE ROADWAY CONTRACT.
8. THE GENERAL NOTES AND SPECIFICATIONS CONTAIN MINIMUM REQUIREMENTS FOR THIS PROJECT. UTILITY CONSTRUCTION SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE ROADWAY CONTRACT, PARTICULARY FOR TRENCHING, BACKFILL, COMPACTION AND CONSTRUCTION OPERATIONS.
9. THE CONTRACTOR MUST PERFORM ALL CONSTRUCTION WITHIN RIGHTS-OF-WAY OR EASEMENTS.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL UTILITY SERVICES DURING CONSTRUCTION. MAINTAIN A LIST OF EMERGENCY CONTACTS FOR EACH UTILITY IN CASE OF ACCIDENTAL UTILITY DAMAGE.
11. THE CONTRACTOR SHALL FOLLOW ALL OSHA REGULATIONS PERTAINING TO CONSTRUCTION OPERATIONS.
12. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY TRAFFIC CONSTROL MEASURES TO INSURE ACCESS AND SAFETY AT ALL TIMES FOR MOTORISTS, PEDESTRIANS, RESIDENTS, BUSINESSES, ETC.
13. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH THE ROADWAY CONTRACT.
14. CONTRACTOR SHALL POT HOLE EXISTING UTILITIES TO VERIFY DEPTHS. ANY ADJUSTMENTS TO HORIZONTAL OR VERTICAL ALIGNMENTS TO AVOID ANY EXISTING UTILITIES SHALL BE APPROVED BY UTILITY OWNER PRIOR TO INSTALLATION.
15. A MINIMUM OF 36 INCHES OF COVER IS REQUIRED OVER ALL NEW UTILITIES, UNLESS NOTED OTHERWISE ON THE PLANS.
16. ALL UTILITY MAINS LARGER THAN 6 INCHES THAT ARE TO BE ABANDONED SHALL BE PLUGGED AND FILLED WITH GROUT.
17. WATER SERVICES SHOWN ON THE DRAWINGS SHALL INCLUDE A NEW WATER METER ASSEMBLY AND ALL APPURTENANCES FOR CONNECTION TO EXISTING LINE. WATER METER SHALL BE LOCATED ON THE PROPERTY LINE. KUB SHALL SET ALL METERS IN METER ASSEMBLY.
18. ALL SOLID SLEEVES SHALL BE RESTRAINED.
19. COORDINATES FOR FIRE HYDRANTS SHALL REFER TO CONNECTION TO MAIN. REFER TO SPECIFICATION 02512 FOR MINIMUM AND MAXIMUM DISTANCES FROM BACK OF CURB.
20. WATER VALVES AND VALVE BOXES SHALL NOT BE LOCATED IN SIDEWALKS. VALVE PLACEMENTS AT LINE INTERSECTIONS SHALL BE ADJUSTED AS NECESSARY.
21. ALL FIRE LINE SERVICES SHALL HAVE A VALVE INSTALLED AT THE MAIN.
22. ALL WATER LINE FITTINGS (BENDS, TEES, VALVES, ETC.) SHALL BE PROPERLY RESTRAINED TO RESIST THE THRUST FORCES DUE TO LINE PRESSURE. ALL FITTINGS SHALL BE INSTALLED WITH THRUST BLOCKS. WHERE SHOWING RESTRAINED JOINT, FITTINGS AND VALVES SHALL BE INSTALLED WITH RETAINER GLANDS. IN ADDITION, THE CONTRACTOR SHALL USE RESTRAINED JOINT PIPE OR JOINT-RESTRAINING GASKETS AT ALL PIPE JOINTS FALLING WITHIN THE AREAS OF RESTRAINED JOINT PIPE. THE CONTRACTOR IS ADVISED TO ANTICIPATE THE JOINT RESTRAINT REQUIREMENTS OF UPCOMING FITTINGS SO THAT IN-LINE JOINTS THAT REQUIRE RESTRAINT MAY BE RESTRAINED AS PIPE IS LAID.
23. THE HORIZONTAL AND VERTICAL BEND FITTINGS SHOWN ON THE DRAWINGS ARE NOT NECESSARILY ALL OF THE BEND FITTINGS REQUIRED FOR THE INSTALLATION OF THE WATER LINE. IF ADDITIONAL FITTINGS ARE USED, PROPER RESTRAINT SHALL BE USED AS OUTLINED IN NOTE 22.
24. ALL 24" PIPE AND FITTINGS SHALL BE RESTRAINED JOINT.

LEGEND:

24" W	PROPOSED WATER LINE
8" SA	PROPOSED SANITARY SEWER LINE
8" G	PROPOSED GAS LINE
24" W	EXISTING WATER LINE
8" SA	EXISTING SEWER LINE
8" G	EXISTING GAS LINE
PL	PROPERTY LINE
	EASEMENT LINE
	EXISTING SANITARY MANHOLE
W.M.	RELOCATED WATER METER
	PROPOSED VALVE
	PROPOSED AIR RELEASE VALVE
122	PROPERTY NUMBER
	CATCH BASIN
	TRAFFIC SIGNAL POLE
	CONTROL POINT
	FIRE HYDRANT
DI	DUCTILE IRON
DIP	DUCTILE IRON PIPE
EOL	END OF LINE
IE	INVERT ELEVATION
LF	LINEAR FEET
MH	MANHOLE
MJ	MECHANICAL JOINT
RJ	RESTRAINED JOINT
SA	SANITARY SEWER
STA	STATION
TBA	TO BE ABANDONED
TC	TOP OF CASTING

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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

Tennessee 811
Know what's below. Call before you dig.

GENERAL NOTES LEGEND

2/4/2016
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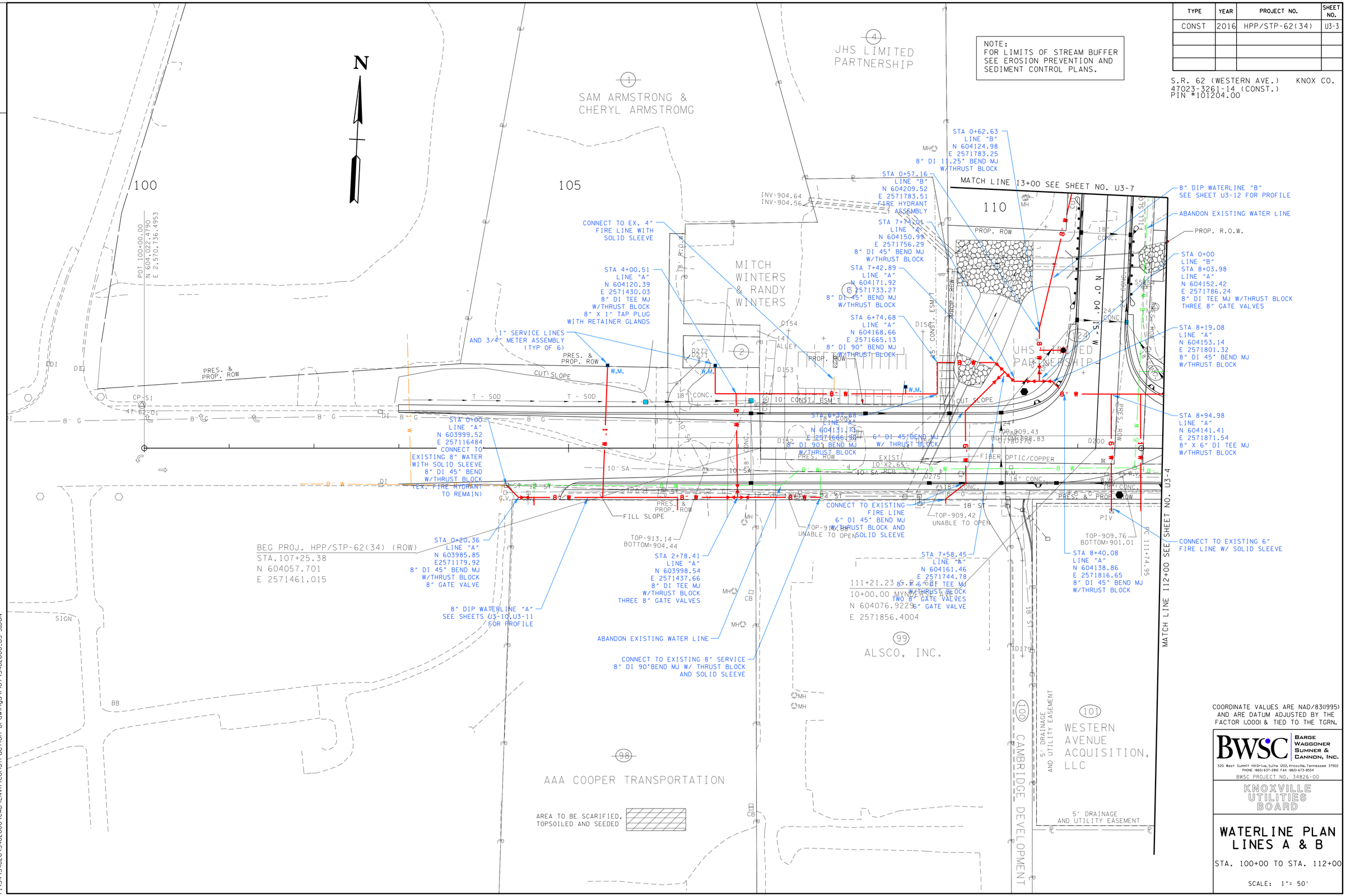
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-3

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00

NOTE:
FOR LIMITS OF STREAM BUFFER SEE EROSION PREVENTION AND SEDIMENT CONTROL PLANS.



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KNOXVILLE UTILITIES BOARD

WATERLINE PLAN LINES A & B

STA. 100+00 TO STA. 112+00

SCALE: 1"= 50'

2/4/2016
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-4

NOTE:
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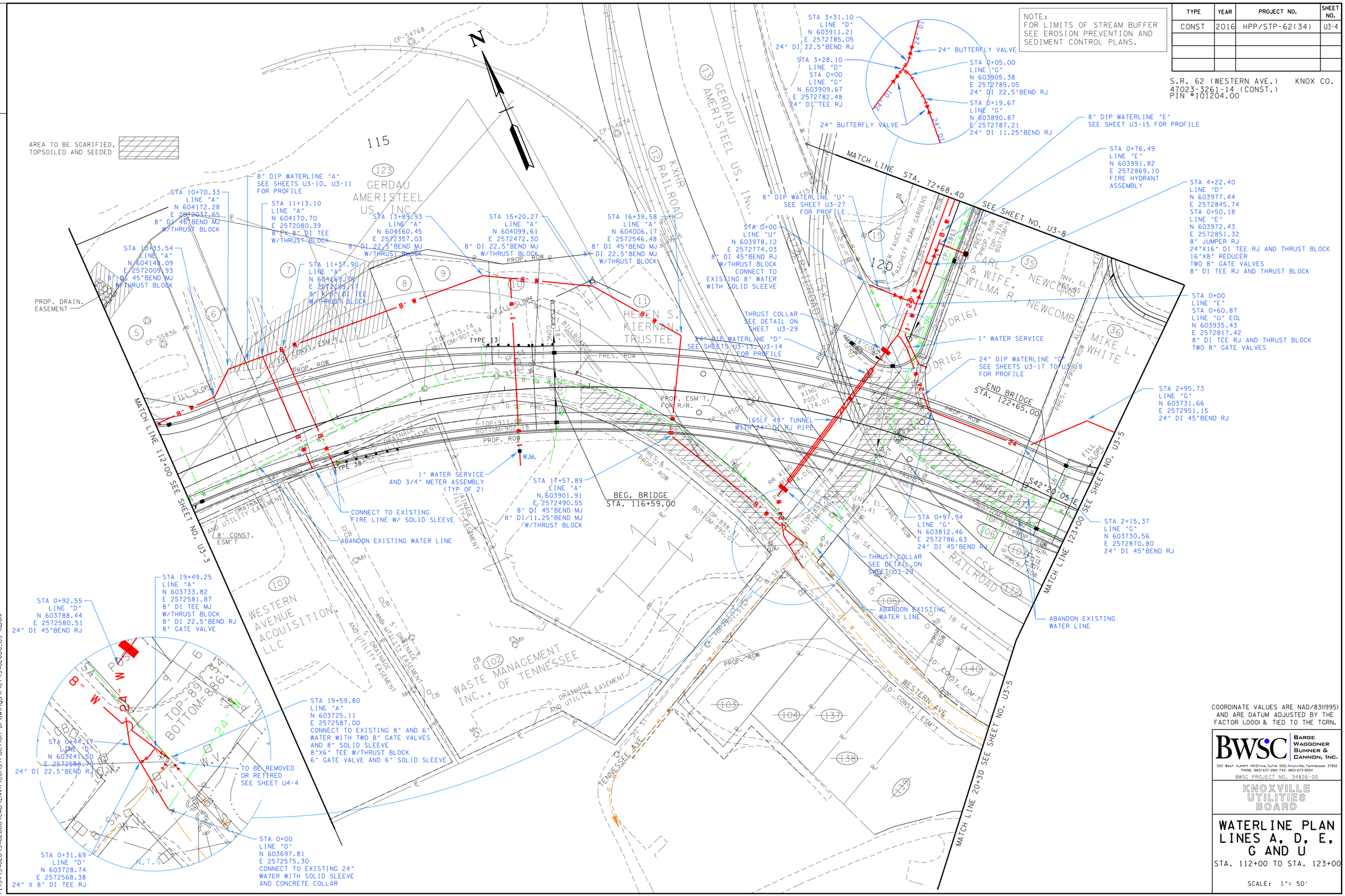
S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

WATERLINE PLAN LINES A, D, E, G AND U

STA. 112+00 TO STA. 123+00

SCALE: 1"= 50'

2/4/2016
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-5

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00

NOTE:
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STA 8+76.21
LINE "G"
N 603296.08
E 2573301.56
24° DI 45°BEND RJ

24" BUTTERFLY VALVE

STA 0+10.00
LINE "V"
N 603285.46
E 2573305.08
8" DI 45°BEND MJ
W/THRUST BLOCK

STA 8+81.21
LINE "G"
STA 0+00
LINE "V"
N 603292.55
E 2573298.02
24"X8" DI TEE RJ
W/THRUST BLOCK

8" GATE VALVE

STA 3+85.68
LINE "H"
N 603640.58
E 2573521.12
CONNECT TO
EXISTING 6" WATER
WITH SOLID SLEEVE
6" DI 45°BEND
8" X 6" REDUCER

STA 3+65.50
LINE "H"
N 603620.43
E 2573522.00
8" DI 45°BEND MJ
W/THRUST BLOCK
8" GATE VALVE

8" DIP WATERLINE "H"
SEE SHEET U3-20 FOR PROFILE

ABANDON EXISTING WATER LINE

STA 4+54.08
LINE "I"
N 603393.73
E 2573777.93
CONNECT TO
EXISTING 6" WATER
WITH SOLID SLEEVE
6" DI 45°BEND
8" X 6" REDUCER

STA 4+40.83
LINE "I"
N 603380.48
E 2573778.48
8" DI 45°BEND MJ
W/THRUST BLOCK
8" GATE VALVE

8" DIP WATERLINE "I"
SEE SHEET U3-20 FOR PROFILE

ABANDON EXISTING WATER LINE

1" WATER SERVICE AND
3/4" METER ASSEMBLY
(TYP OF 31)

STA 4+73.60
LINE "J"
N 603107.76
E 2574006.16
CONNECT TO
EXISTING 6" WATER
WITH SOLID SLEEVE
6" DI 45°BEND
8" X 6" REDUCER

STA 4+59.10
LINE "J"
N 603093.26
E 2574006.43
8" DI 45°BEND MJ
W/THRUST BLOCK
8" GATE VALVE

8" DIP WATERLINE "J"
SEE SHEET U3-21 FOR PROFILE

ABANDON EXISTING WATER LINE

MATCH LINE 203+00 SEE SHEET NO. U3-8

8" DIP WATERLINE "F"
SEE SHEET U3-16 FOR PROFILE

STA 0+00.00
LINE "F"
STA 4+58.47
LINE "G"
N 603616.42
E 2573066.13
24" X 8" DI TEE RJ
W/THRUST BLOCK
TWO 24" BUTTERFLY VALVES
8" GATE VALVE

STA 0+71.08
LINE "F"
N 603667.76
E 2573015.22
CONNECTION TO
FIRE HYDRANT
ASSEMBLY

STA 4+71.20
LINE "G"
N 603607.41
E 2573075.05
24"X16" DI 45°BEND RJ

STA 0+15.64
LINE "H"
N 603362.44
E 2573285.69
CONNCTION TO
FIRE HYDRANT
ASSMEBLY

STA 8+47.93
LINE "G"
N 603324.36
E 2573301.60
24" DI 45°BEND

STA 0+41.11
LINE "V"
N 603254.35
E 2573305.03
8" DI 45°BEND

STA 2+51.66
LINE "V"
N 603117.42
E 2573425.85
FIRE HYDRANT
ASSEMBLY

STA 3+05.31
LINE "V"
STA 0+00
LINE "I"
N 603056.30
E 2573479.77
8" TEE RJ AND
THRUST BLOCK
THREE 8" GATE VALVES

PC 3+29.71
PT 5+34.33
RADIUS 1181'

STA 6+02.53
LINE "V"
N 602808.89
E 2573662.32
FIRE HYDRANT
ASSEMBLY

STA 5+26.96
LINE "G"
N 603551.65
E 2573074.97
24" DI 45° BEND RJ

STA 5+51.36
LINE "G"
INSTALL AIR RELEASE
VALVE AT HIGH POINT

THRUST COLLAR

STA 8+89.48
LINE "G"
N 603286.71
E 2573292.16
BEGIN 42" STEEL
CASING

8" DIP WATERLINE "V"
SEE SHEET U3-28 FOR PROFILE

25LF 42" STEEL CASING
(INSTALL VIA OPEN TRENCH)
W/ 24" DI RJ PIPE

TEMPORARY CONNECTION TO EXISTING WATER
N 603169.83
E 2573260.87
24" DI TEE RJ AND THRUST BLOCK
TWO 24" BUTTERFLY VALVES
TEMPORARY 24" W

STA 10+14.48
LINE "G"
N 603148.45
E 2573203.65
END 42" STEEL
CASING

THRUST COLLAR

STA 0+00
LINE "H"
N 603139.91
E 2573275.12
24"X8" DI TEE
W/THRUST BLOCK
TWO 24" BUTTERFLY VALVES
8" GATE VALVE

ABANDON EXISTING WATER LINE

STA 10+91.05
LINE "G"
N 603132.65
E 2573212.06
TEMPORARY CONNECTION
24" DI TEE RJ AND THRUST BLOCK
THREE 24" BUTTERFLY VALVES

STA 10+27.95
LINE "G"
N 603188.94
E 2573194.11
24" DI 45° BEND RJ

STA 10+58.05
LINE "G"
N 603158.91
E 2573192.07
24" DI 45° BEND RJ

24" DIP WATERLINE "G"
SEE SHEET U3-17 TO
U3-19 FOR PROFILE

STA 12+52.92
LINE "G"
N 603003.88
E 2573310.15
24" DI 11.25° BEND RJ

STA 13+12.37
LINE "G"
N 602981.22
E 2573365.10
24" DI 45° BEND RJ

STA 15+25.30
LINE "G"
N 602792.06
E 2573462.87
24" DI 45°BEND RJ

STA 16+61.56
LINE "G"
N 602762.35
E 2573595.86
24" DI 45°BEND RJ

STA 17+06.30
LINE "G"
INSTALL AIR RELEASE
VALVE AT HIGH POINT

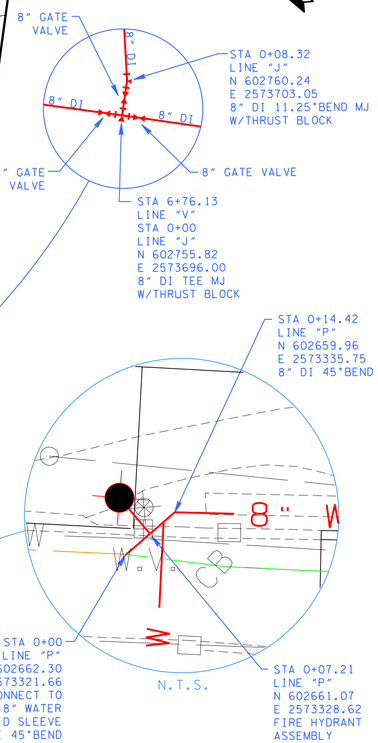
8" DIP WATERLINE "P"
SEE SHEET U3-25 FOR PROFILE

MATCH LINE 123+00 SEE SHEET NO. U3-4

MATCH LINE 135+00 SEE SHEET NO. U3-6

MATCH LINE 20+30

MATCH LINE 83+40 SEE SHEET NO. U3-9



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KNOXVILLE UTILITIES BOARD

WATERLINE PLAN LINES F, G, H, I, J & P

STA. 123+00 TO STA. 135+00

SCALE: 1"= 50'

NOTE:
FIRE HYDRANTS SHALL NOT BE PLACED CLOSER THAN 3.0 FEET TO ANOTHER UTILITY.

2/4/2016
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TENNESSEE D.O.T.
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CONST	2016	HPP/STP-62(34)	U3-6

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00

NOTE:
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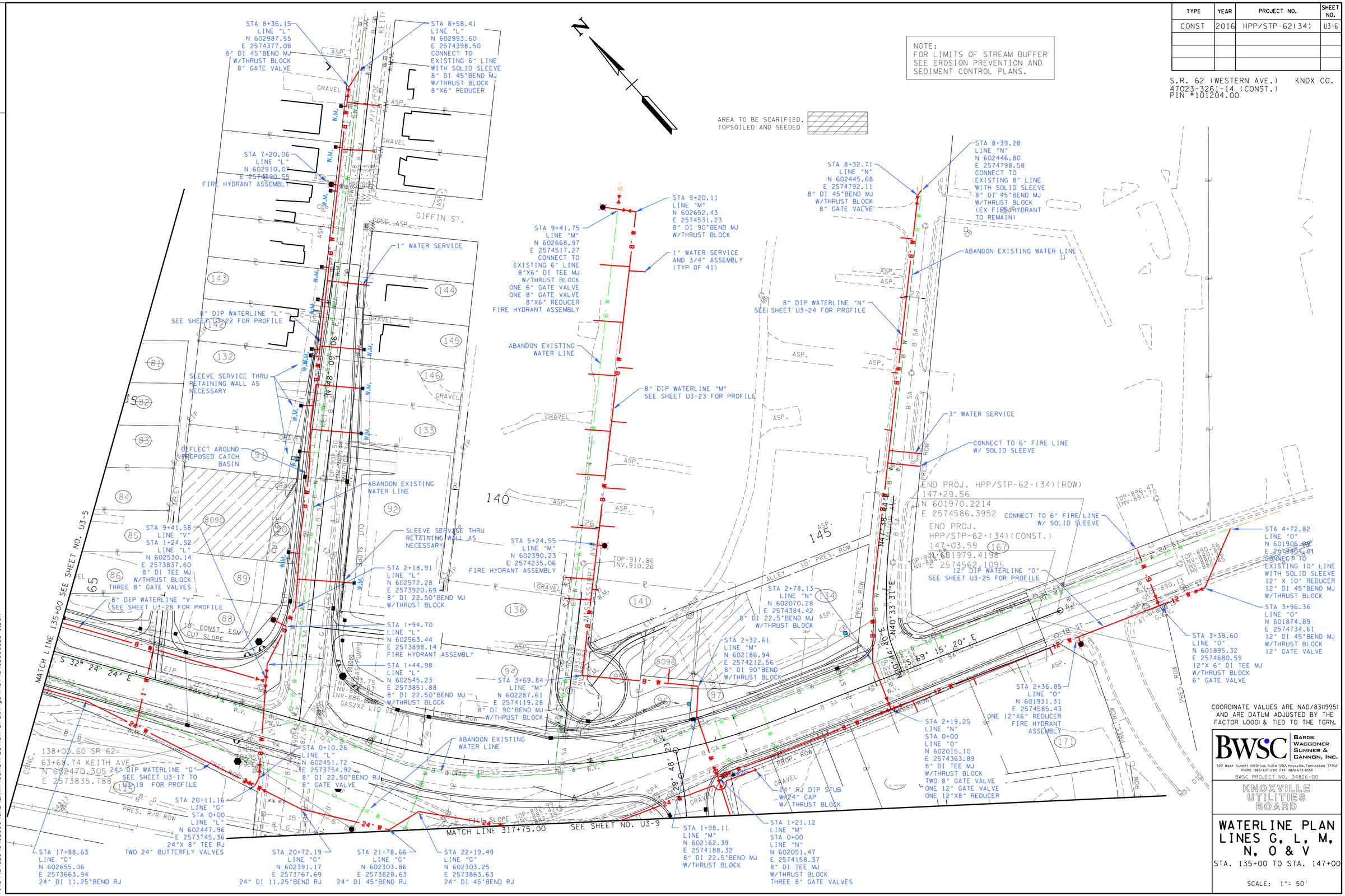
AREA TO BE SCARIFIED, TOPSOILED AND SEEDED



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PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

WATERLINE PLAN LINES G, L, M, N, O & V

STA. 135+00 TO STA. 147+00

SCALE: 1"= 50'

2/4/2016
F:\34\34826\348260O\CAD\ENVR\Construction Drawings\Plot\348260O_U3-6.DGN

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

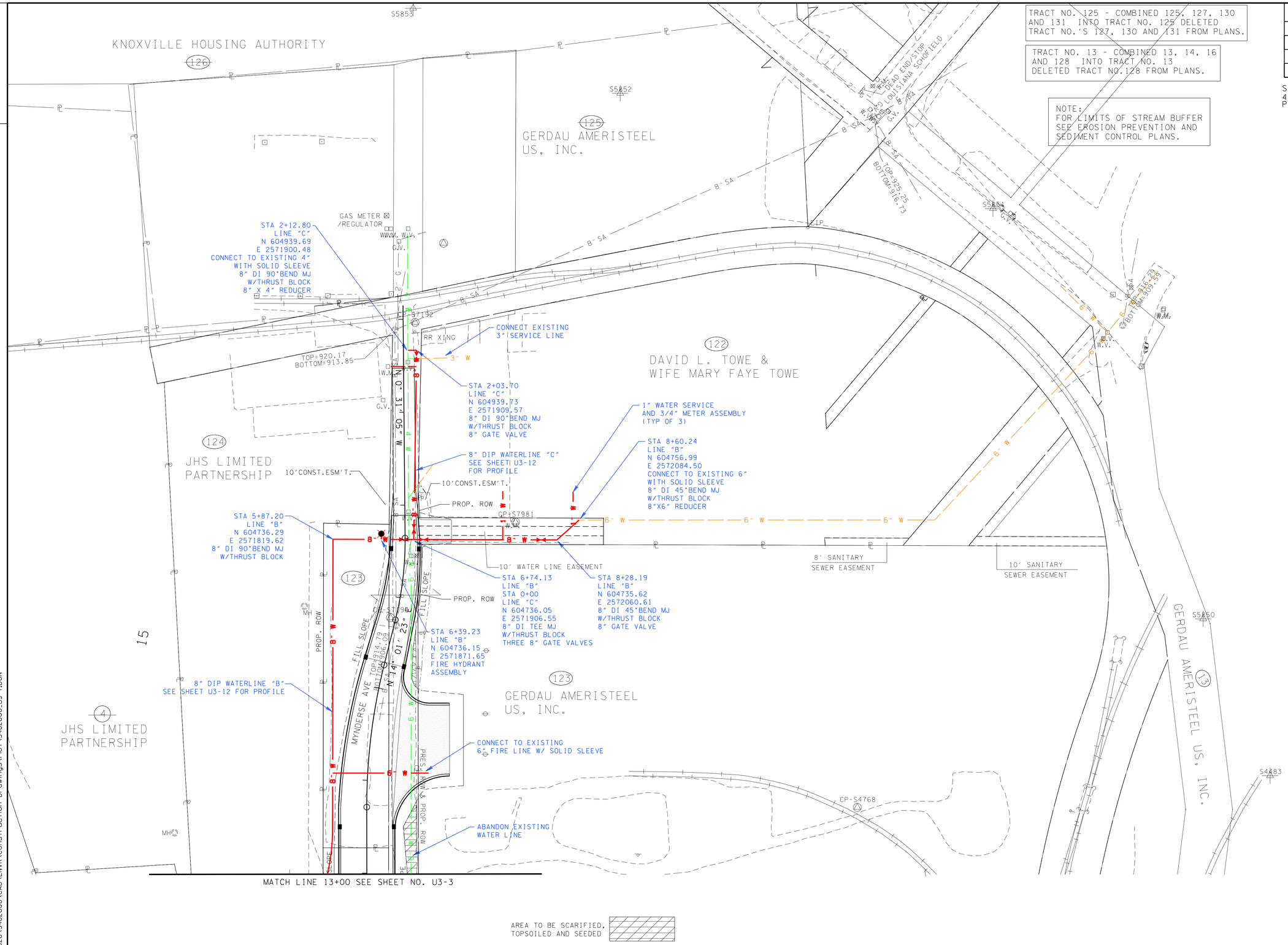
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-7

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00

TRACT NO. 125 - COMBINED 125, 127, 130 AND 131 INTO TRACT NO. 125 DELETED TRACT NO.'S 127, 130 AND 131 FROM PLANS.

TRACT NO. 13 - COMBINED 13, 14, 16 AND 128 INTO TRACT NO. 13 DELETED TRACT NO.128 FROM PLANS.

NOTE:
FOR LIMITS OF STREAM BUFFER SEE EROSION PREVENTION AND SEDIMENT CONTROL PLANS.



N

AREA TO BE SCARIFIED, TOPSOILED AND SEEDED

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TORN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

WATERLINE PLAN LINES B & C

MYNDERSE AVE.

SCALE: 1"= 50'

2/4/2016
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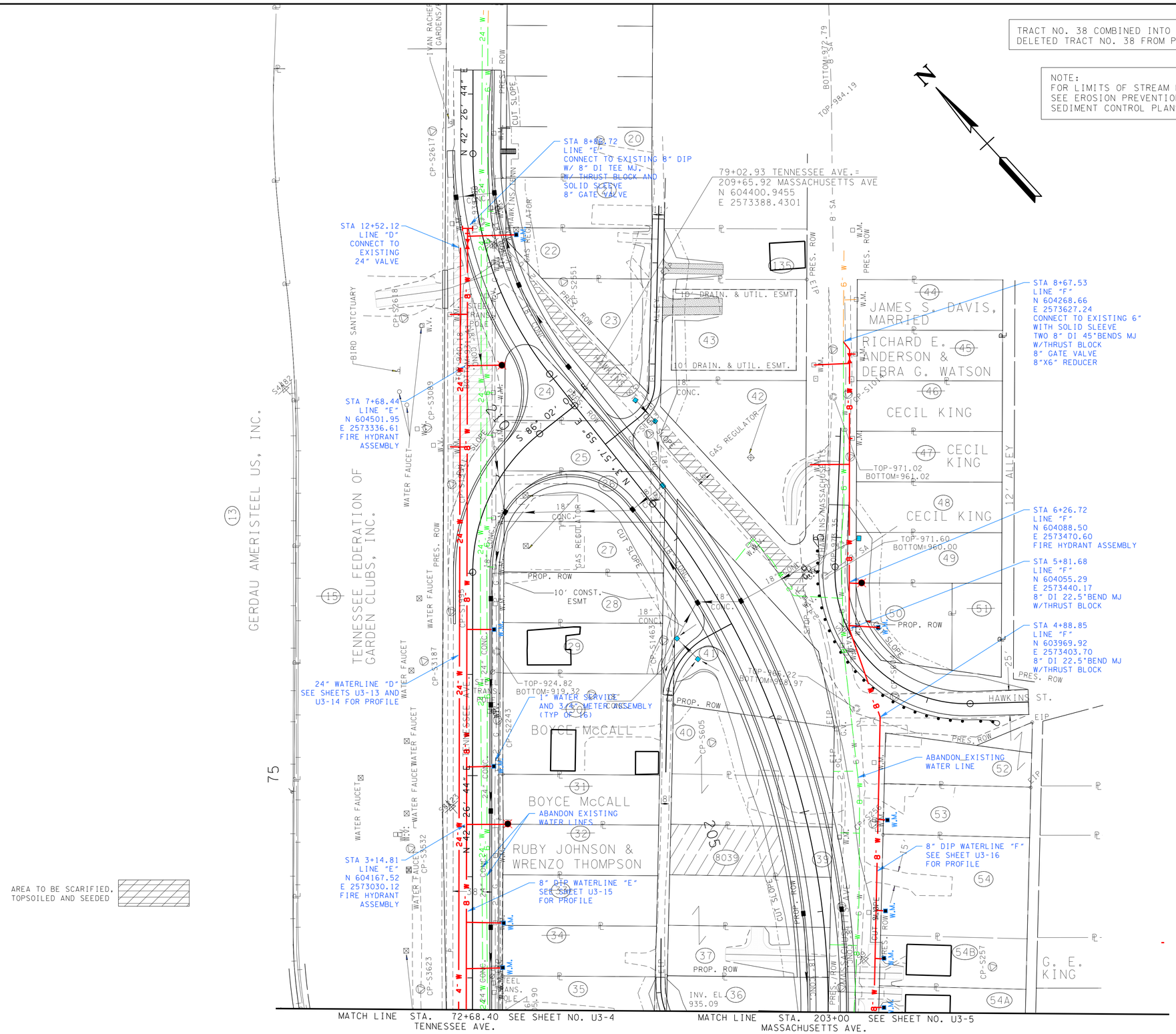
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-8

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00

TRACT NO. 38 COMBINED INTO TRACT NO. 37
DELETED TRACT NO. 38 FROM PLANS.

NOTE:
FOR LIMITS OF STREAM BUFFER
SEE EROSION PREVENTION AND
SEDIMENT CONTROL PLANS.



AREA TO BE SCARIFIED,
TOPSOILED AND SEEDED

COORDINATE VALUES ARE NAD/83(1995)
AND ARE DATUM ADJUSTED BY THE
FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

WATERLINE PLAN LINES D, E, & F

MASSACHUSETTS AVE.

SCALE: 1"= 50'

2/4/2016
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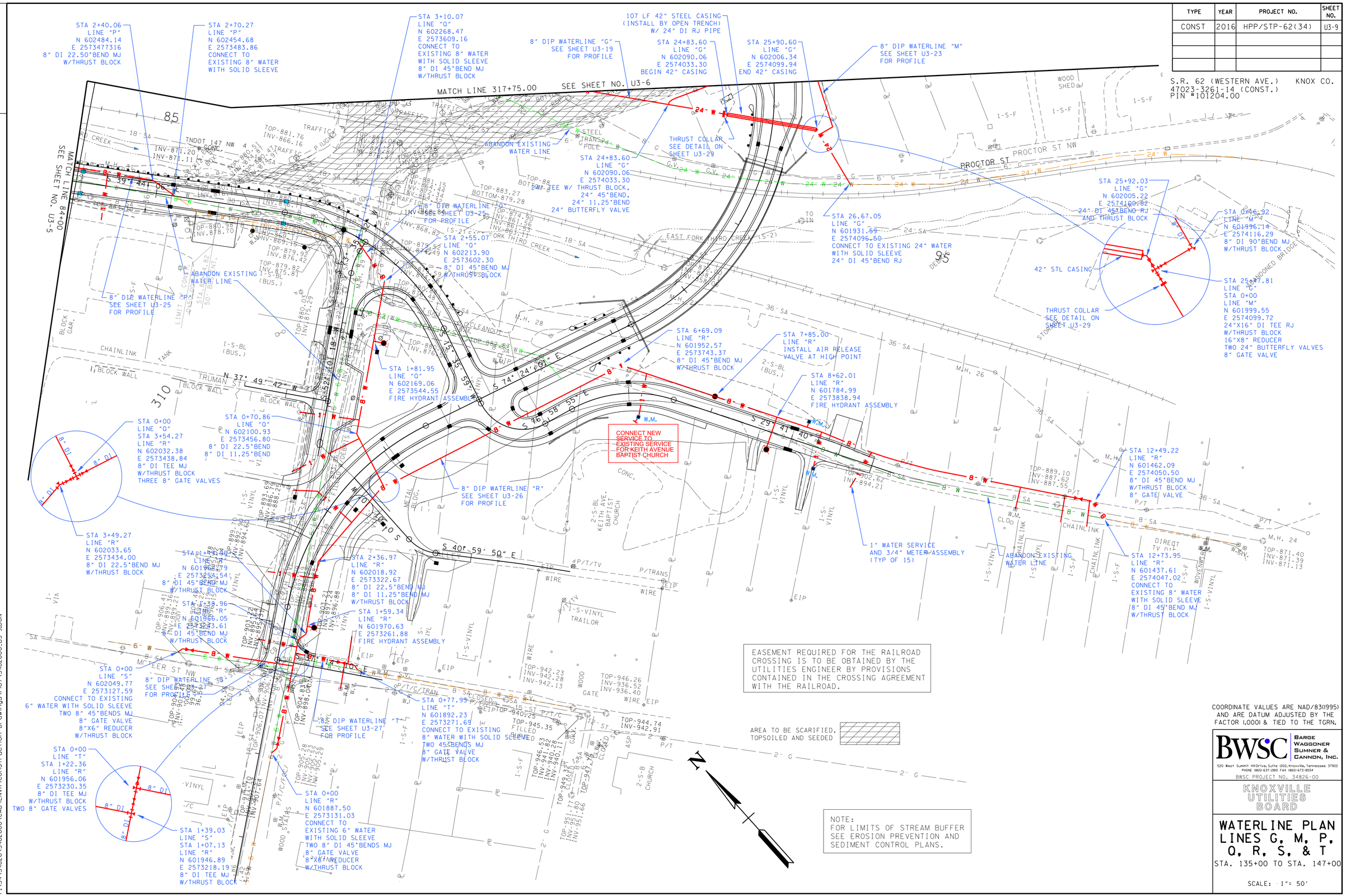
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-9

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



COORDINATE VALUES ARE NAD/83(1995)
AND ARE DATUM ADJUSTED BY THE
FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

WATERLINE PLAN LINES G, M, P, Q, R, S, & T

STA. 135+00 TO STA. 147+00

SCALE: 1"= 50'

2/4/2016
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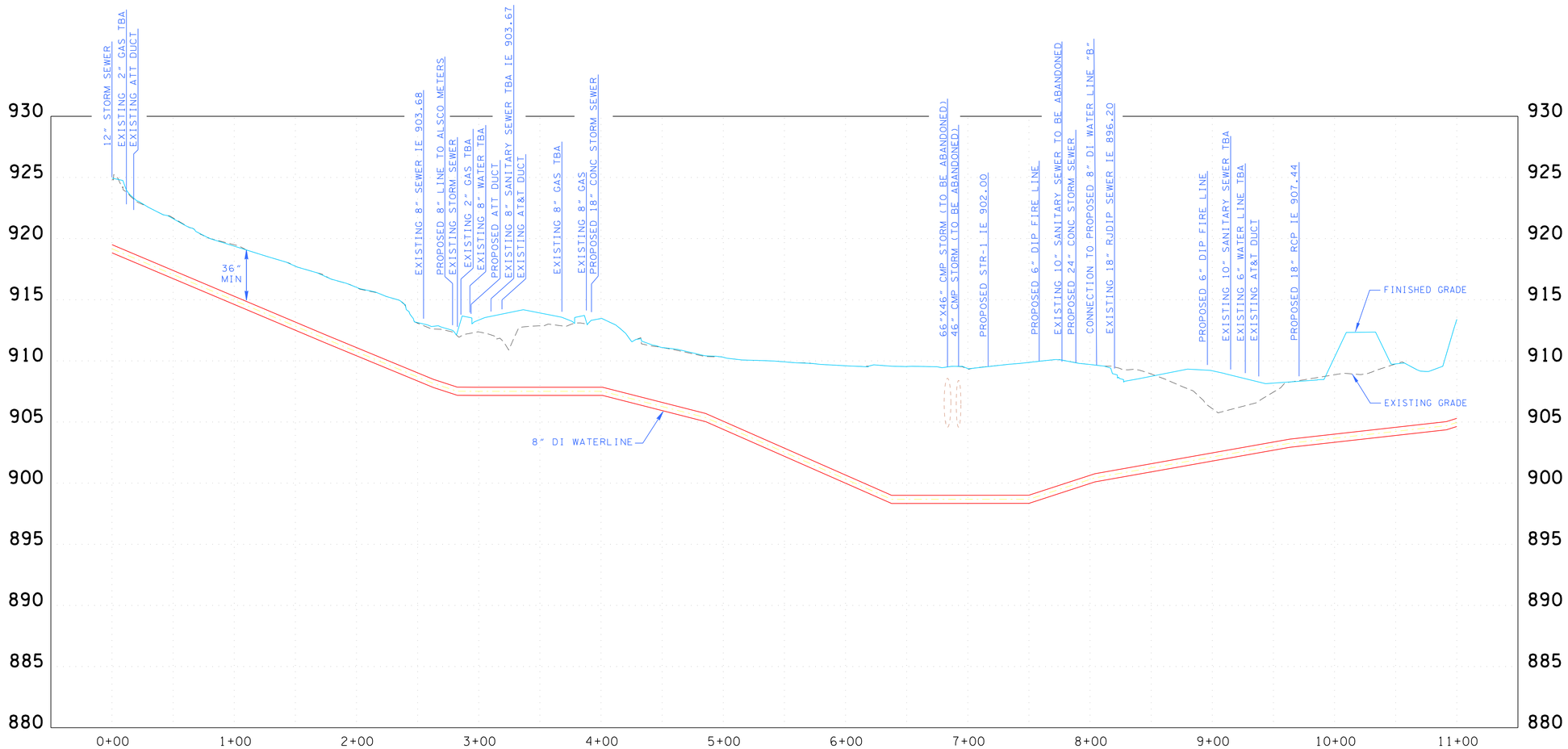
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-10

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE A

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TCRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
WATER
LINE A

STA.0+00 TO STA.11+00
SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
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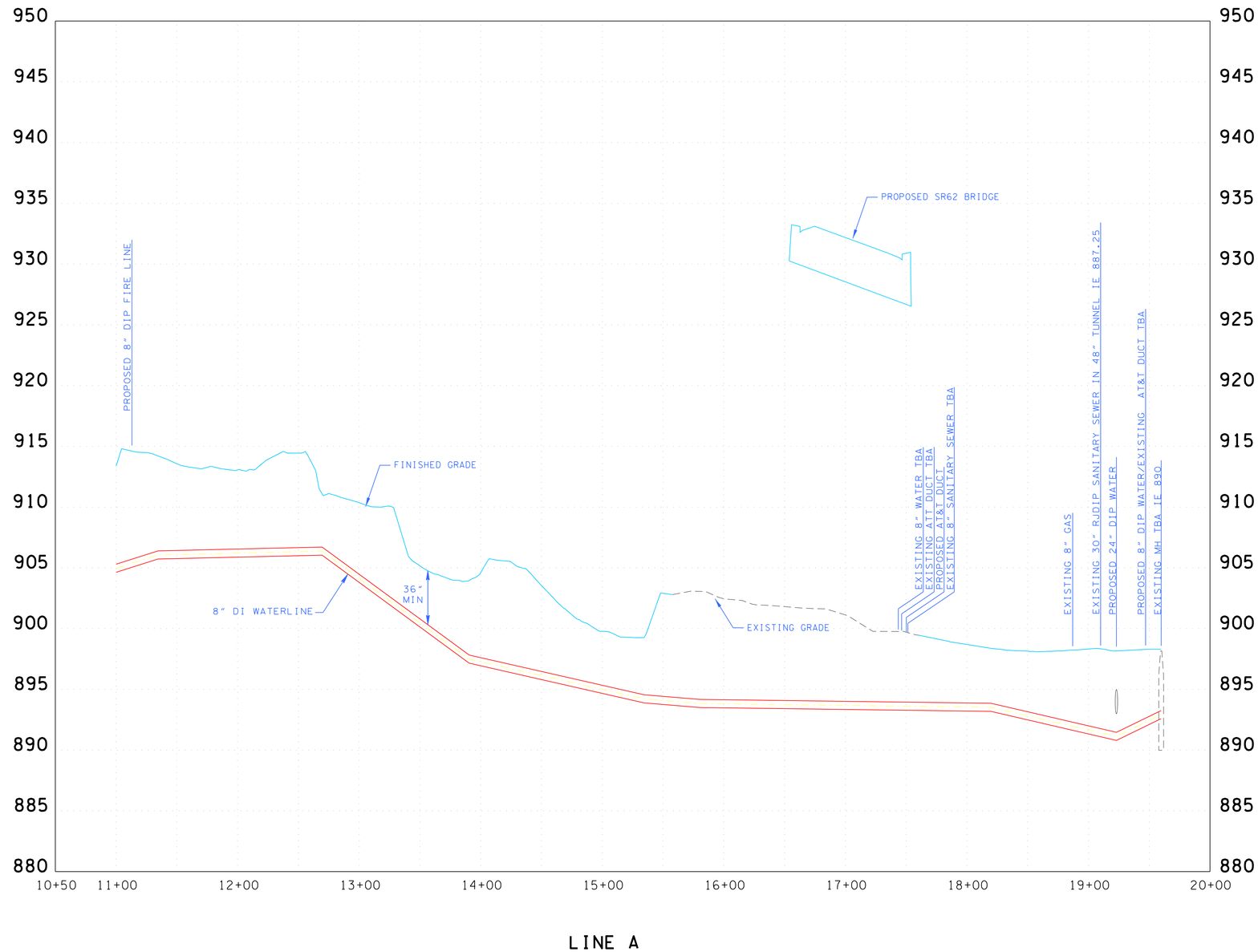
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-11

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE A

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554

BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
WATER
LINE A

STA.11+00 TO EOL
SCALE: 1"=5' HORIZ.
1"=50' VERT.

PROPOSED ATT DUCT

2/4/2016
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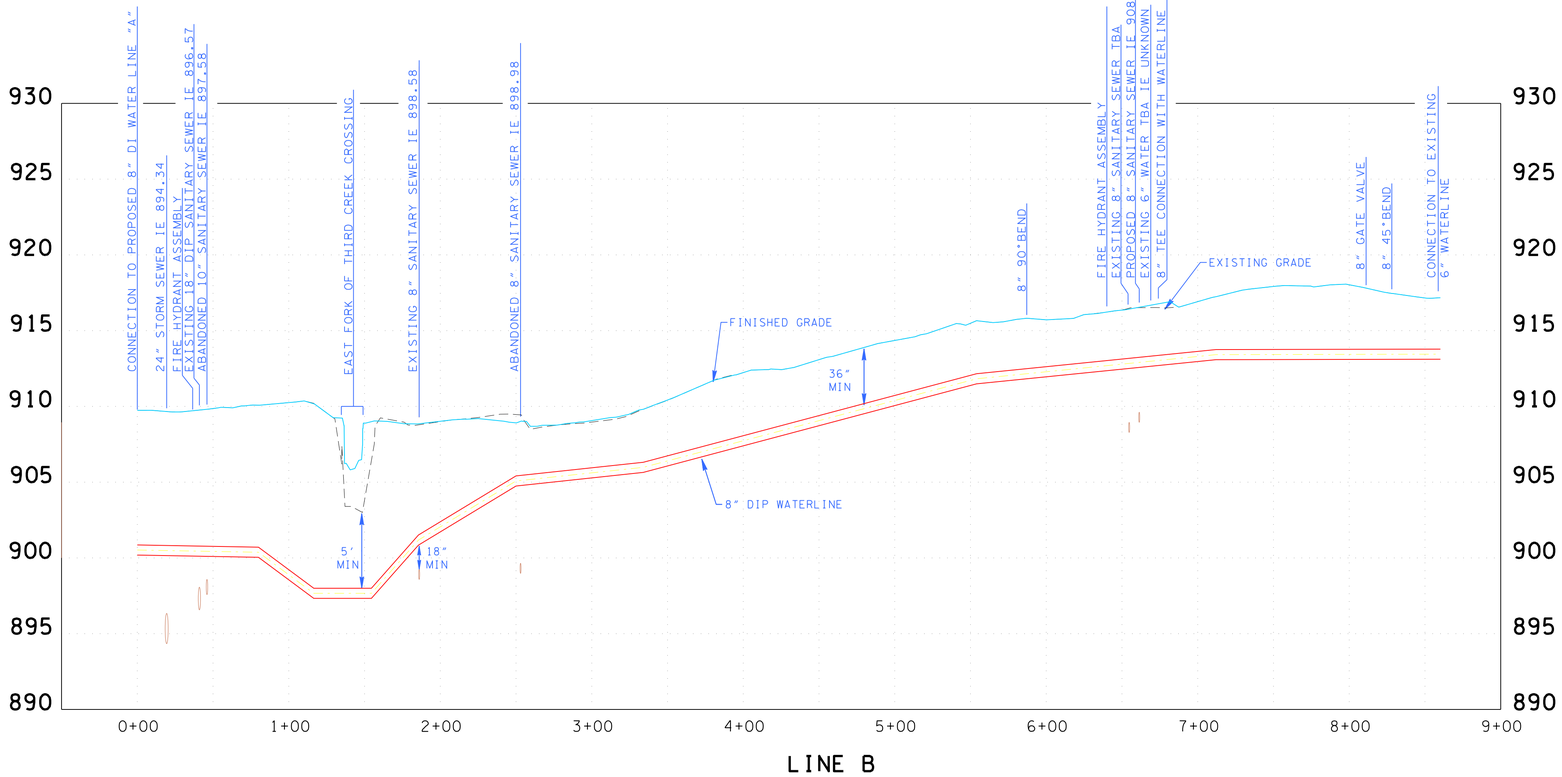
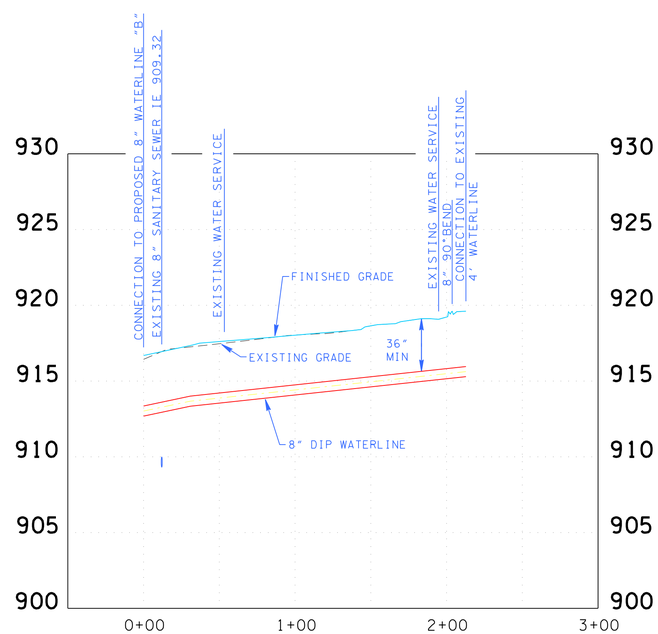
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-12

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE B



LINE C

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
WATER
LINES B & C

STA.0+00 TO EOL
SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
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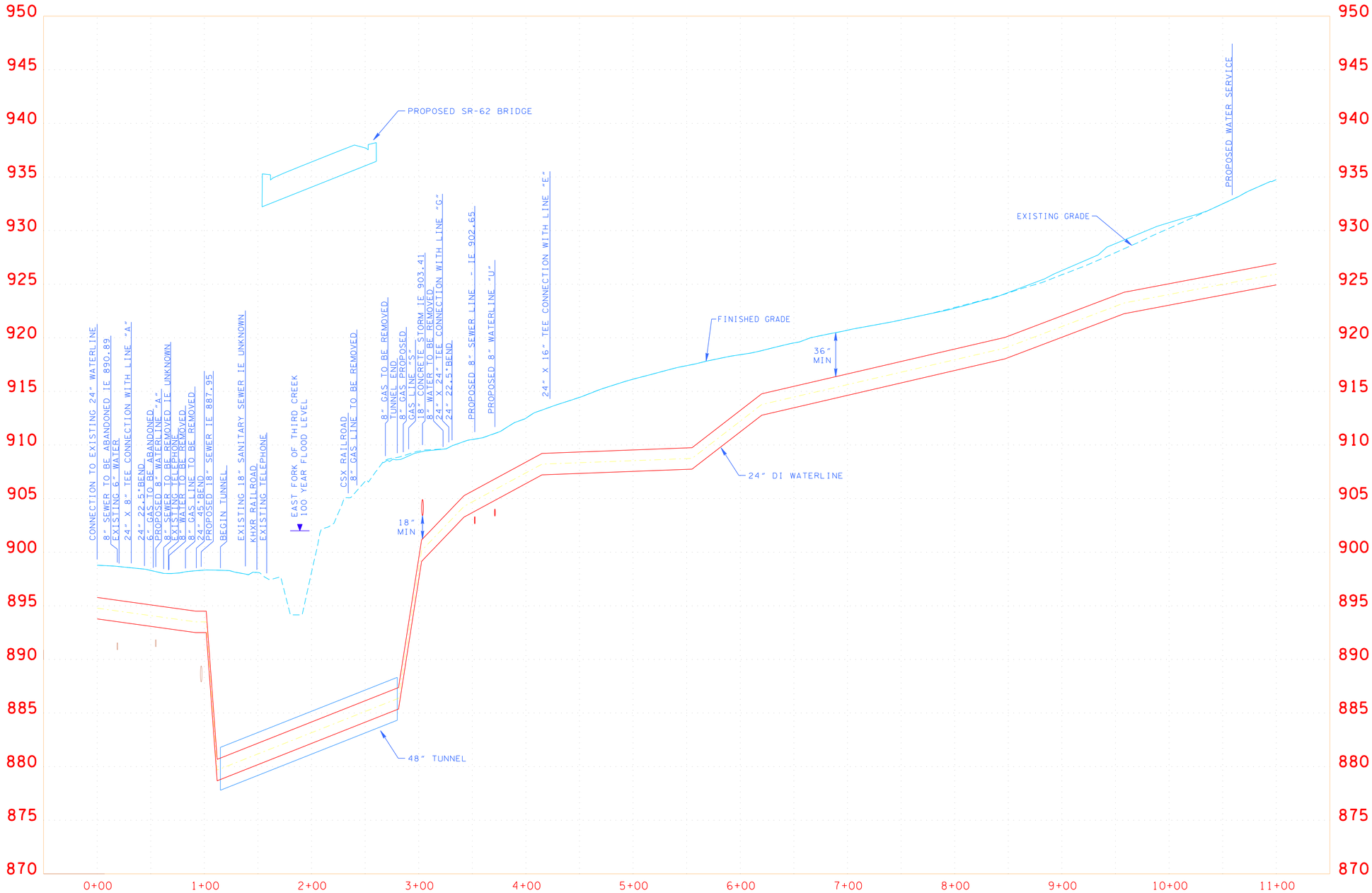
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-13

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE D

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
WATER
LINE D

STA.0+00 TO STA. 11+00
SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
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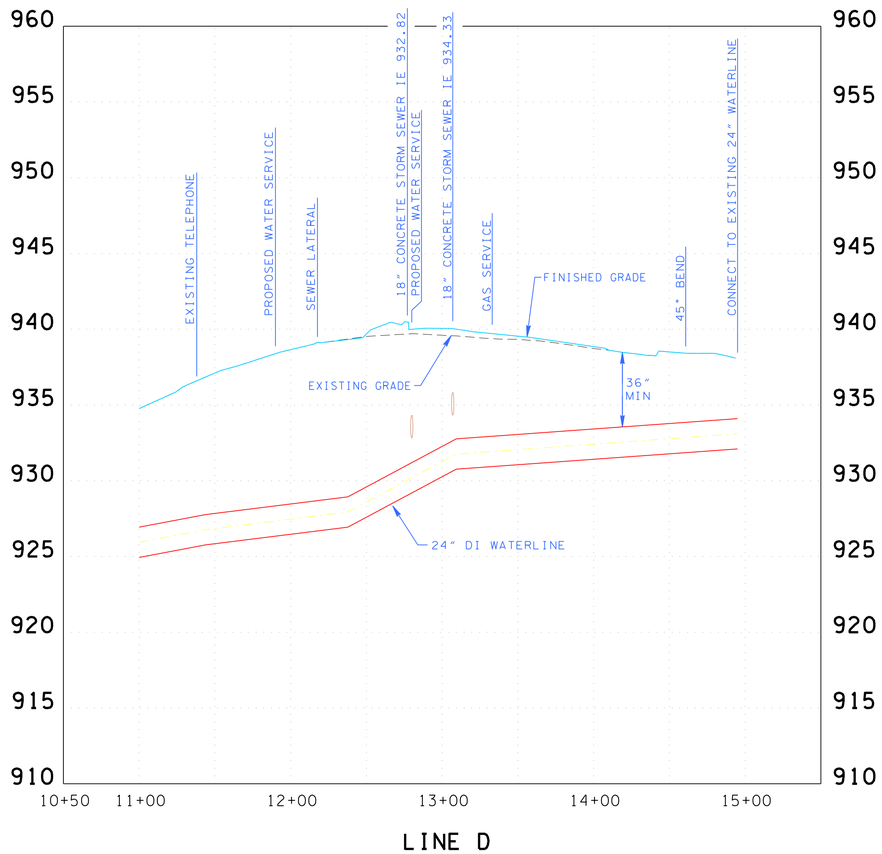
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-14

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TORN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
WATER
LINE D

STA.11+00 TO EOL
SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
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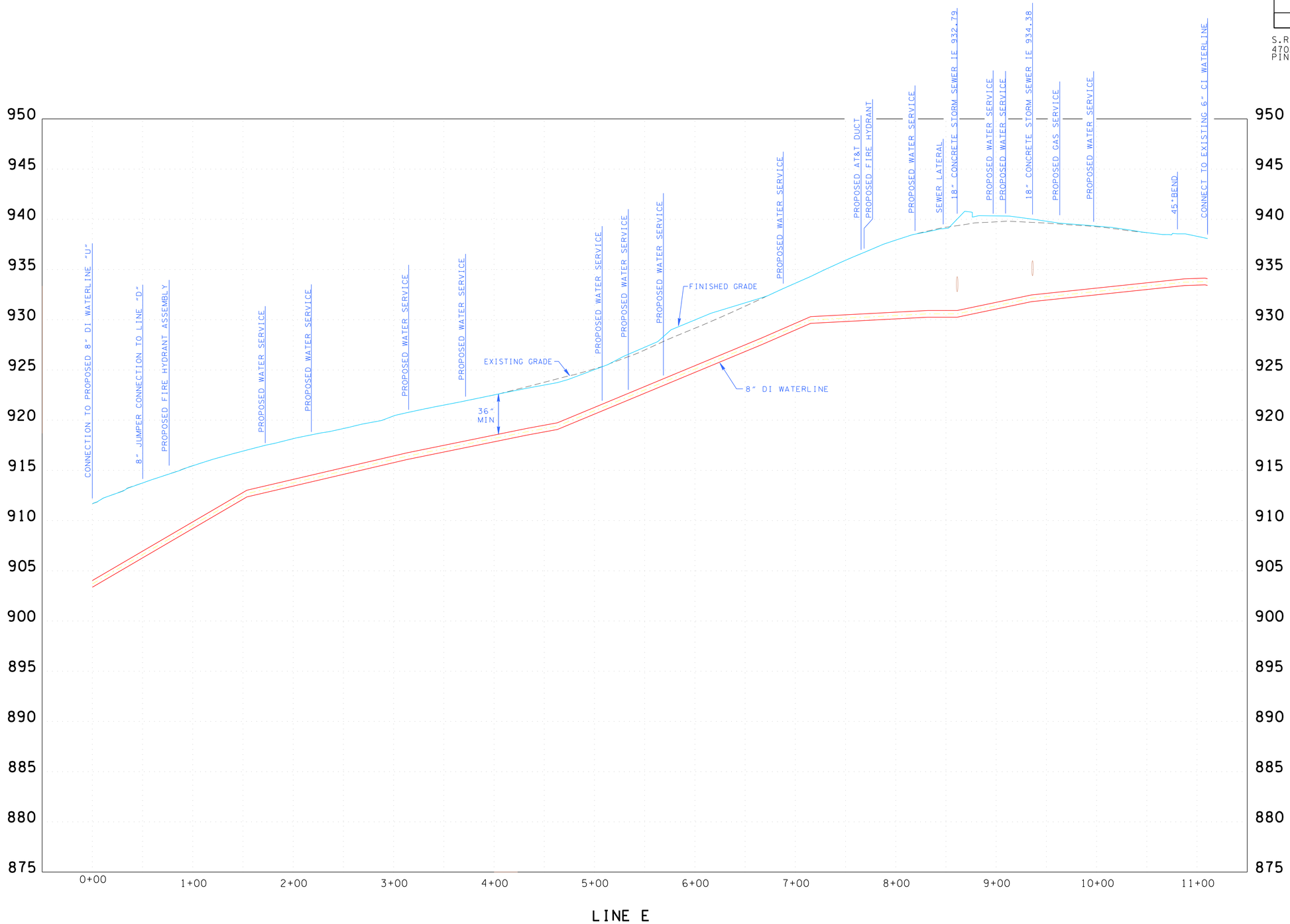
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-15

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE E

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
WATER LINE E

STA.0+00 TO E.O.L.
SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
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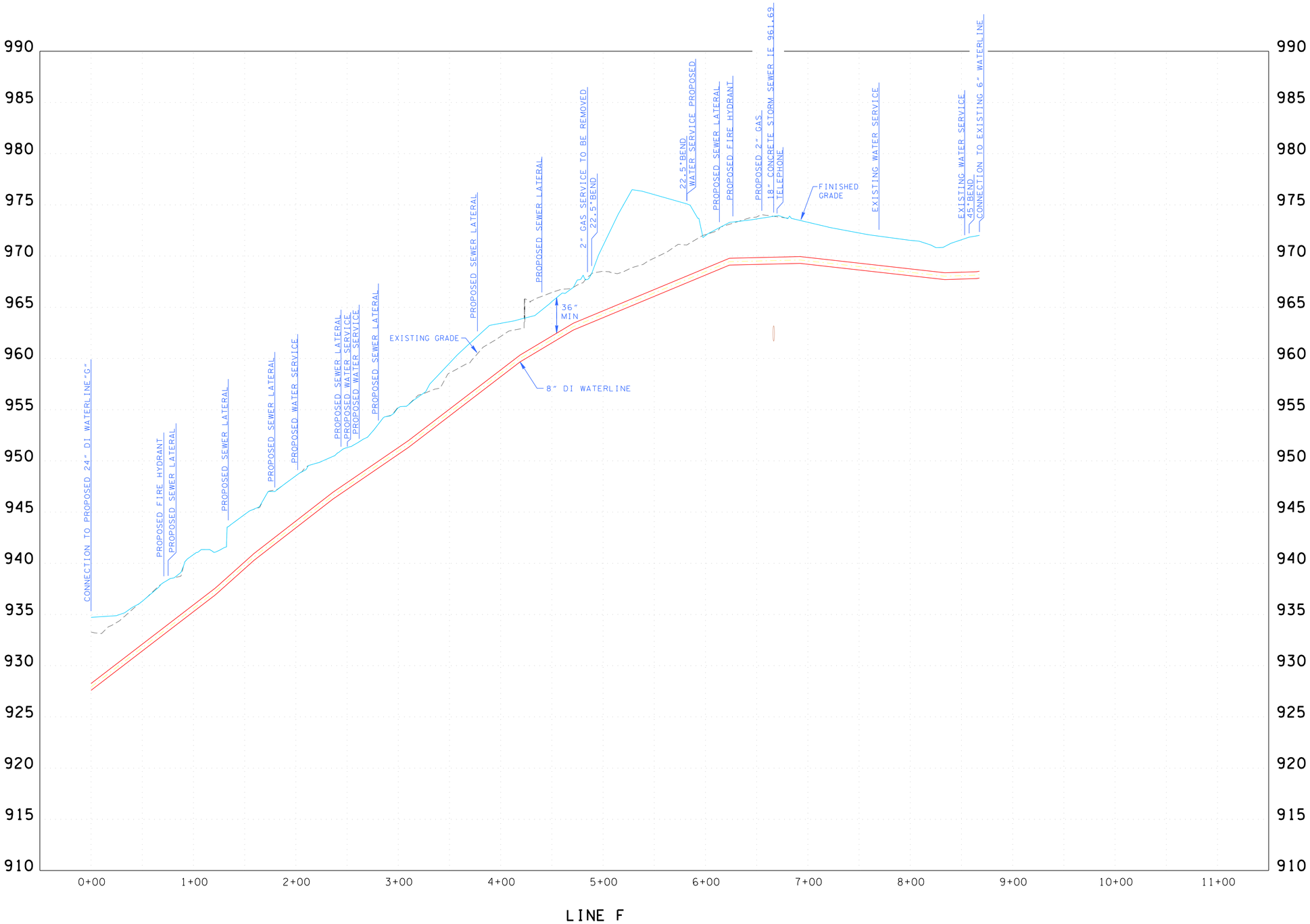
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-16

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TORN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
WATER
LINE F

STA.0+00 TO E.O.L.
SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
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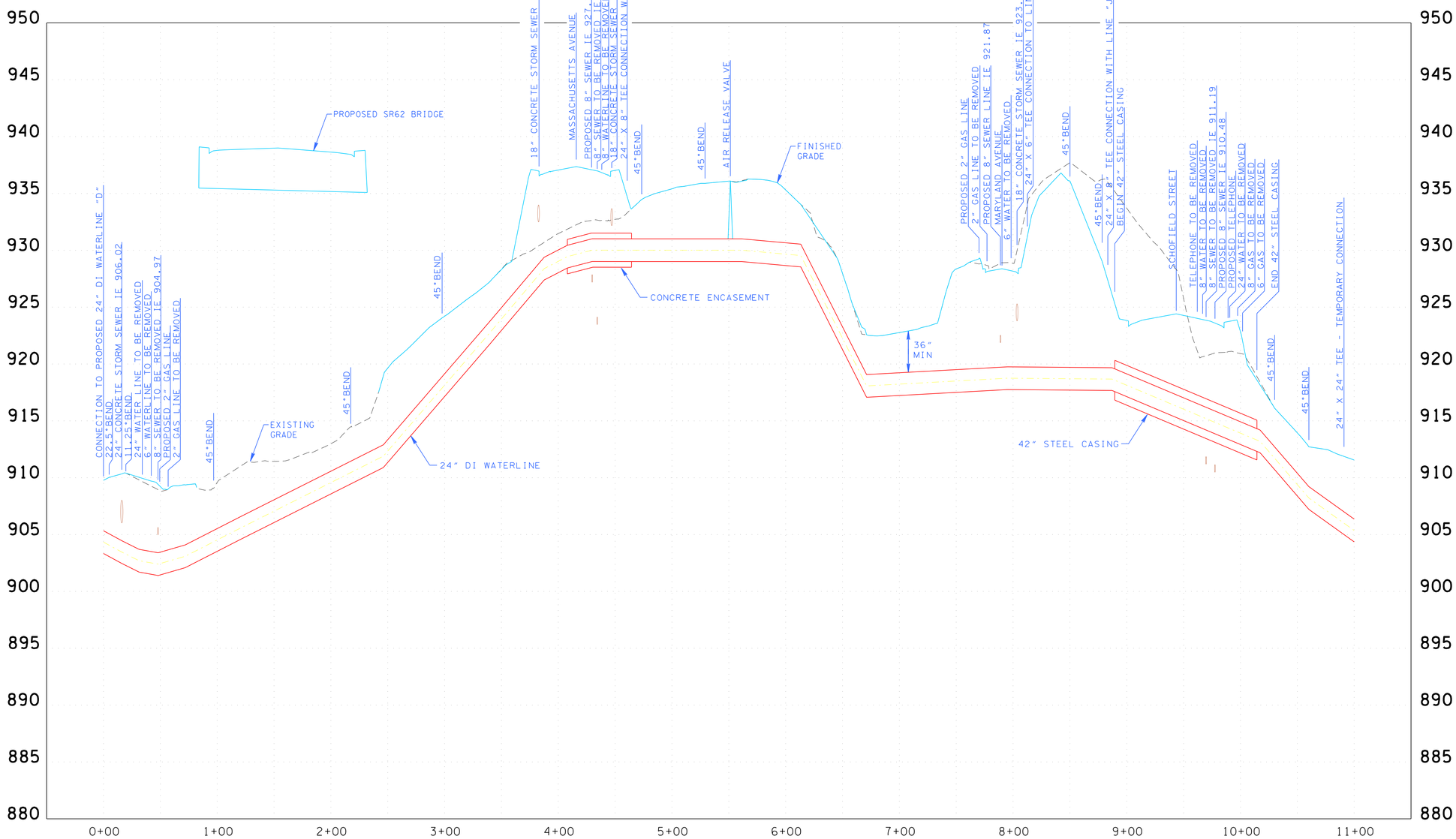
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-17

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE G

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC
BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
WATER LINE G

STA.0+00 TO STA.11+00
SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
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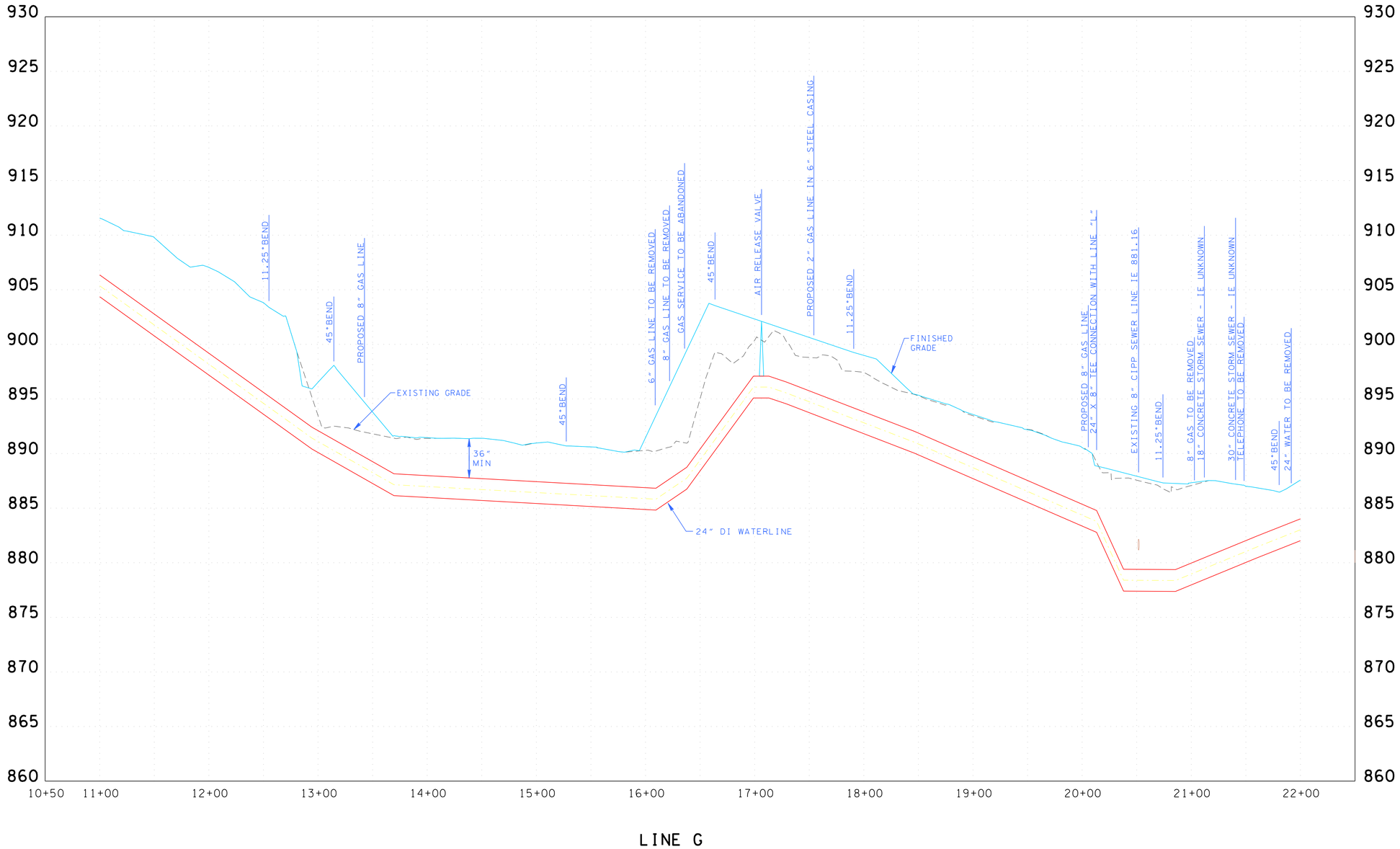
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-18

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
WATER LINE G

STA.11+00 TO STA.22+00
SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
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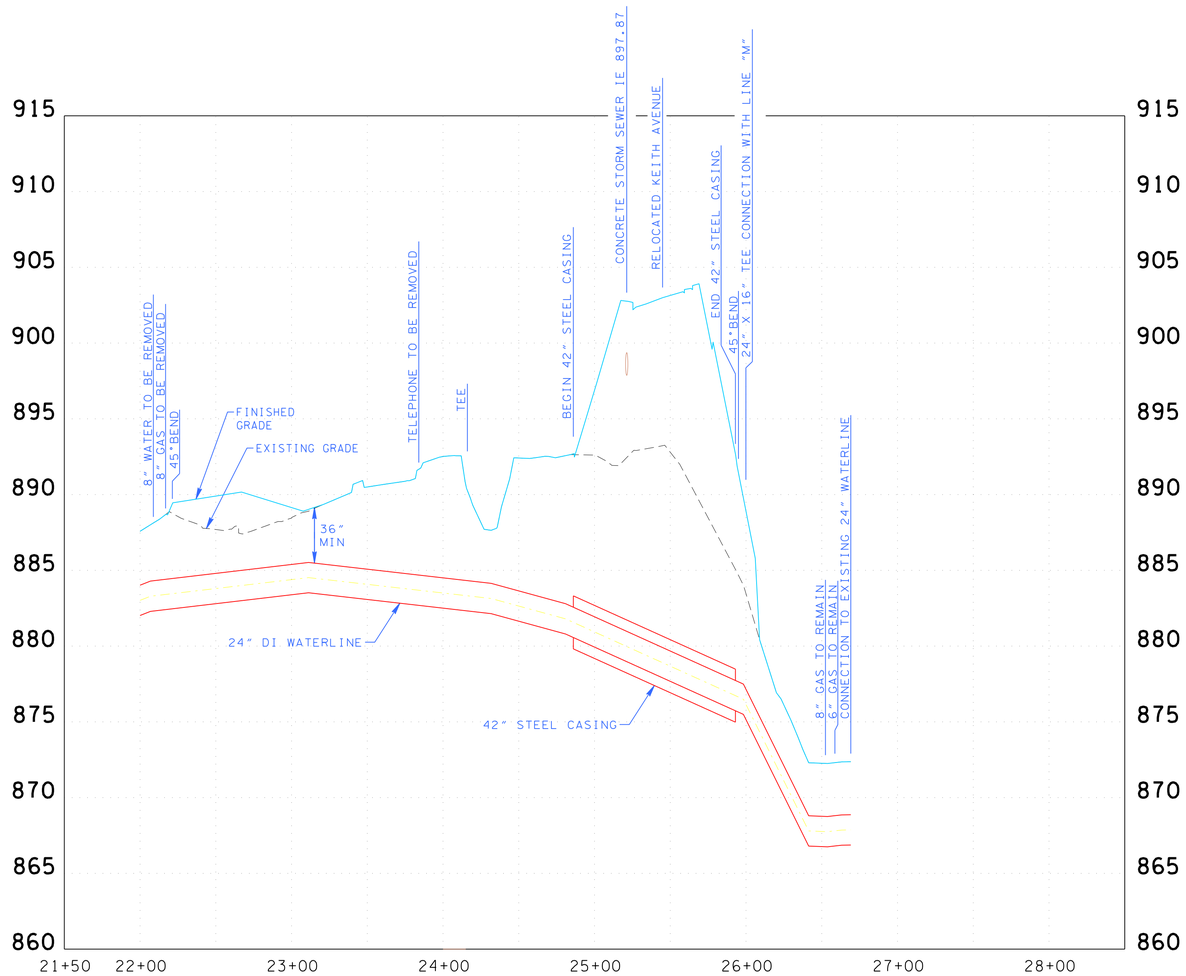
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-19

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE G

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TORN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
WATER
LINE G

STA.22+00 TO EOL
SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
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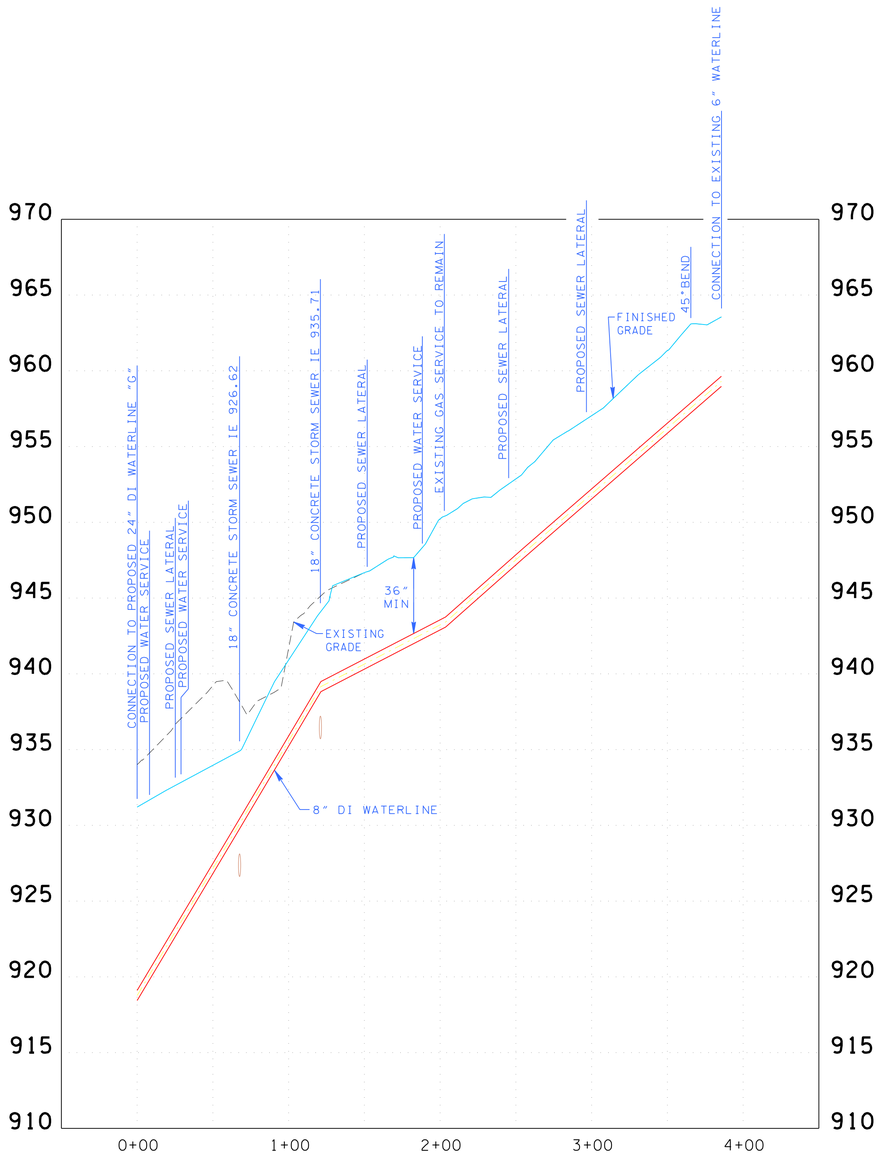
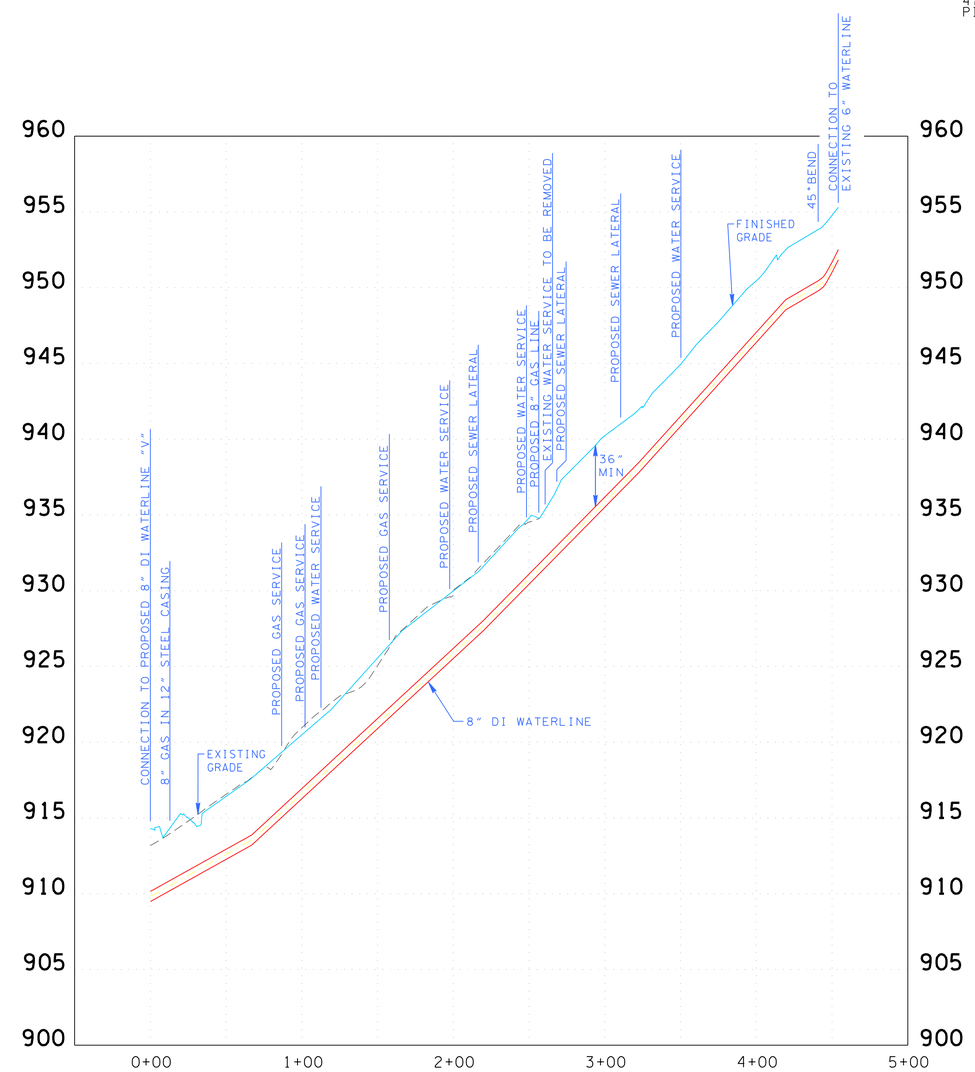
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-20

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE H



LINE I

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
WATER
LINES H & I

STA.0+00 TO EOL
SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
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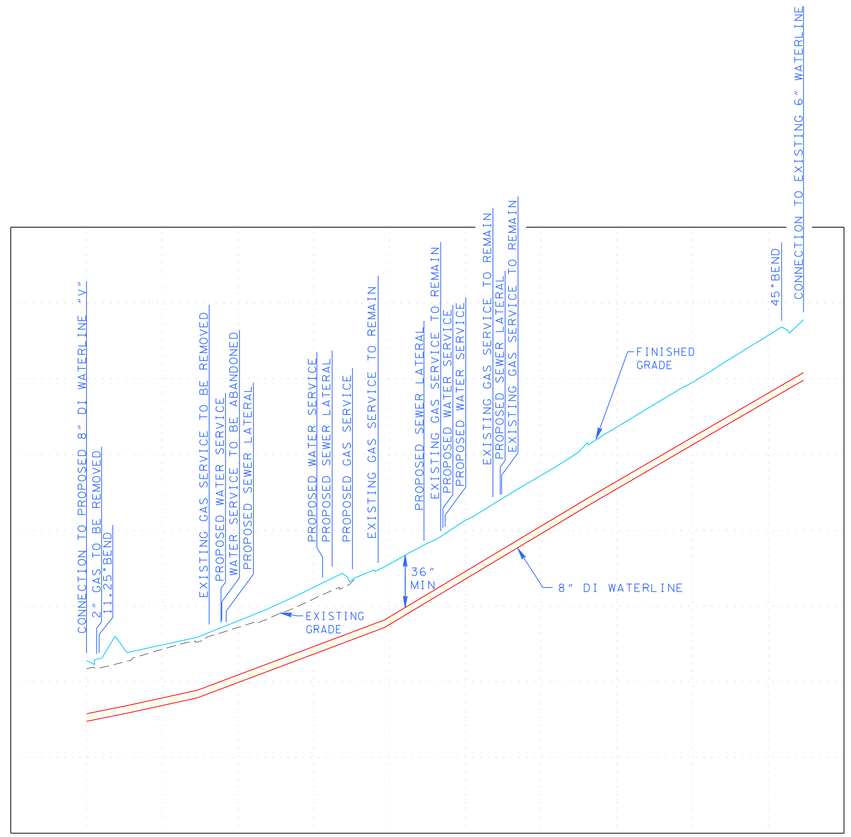
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC
BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

2/4/2016
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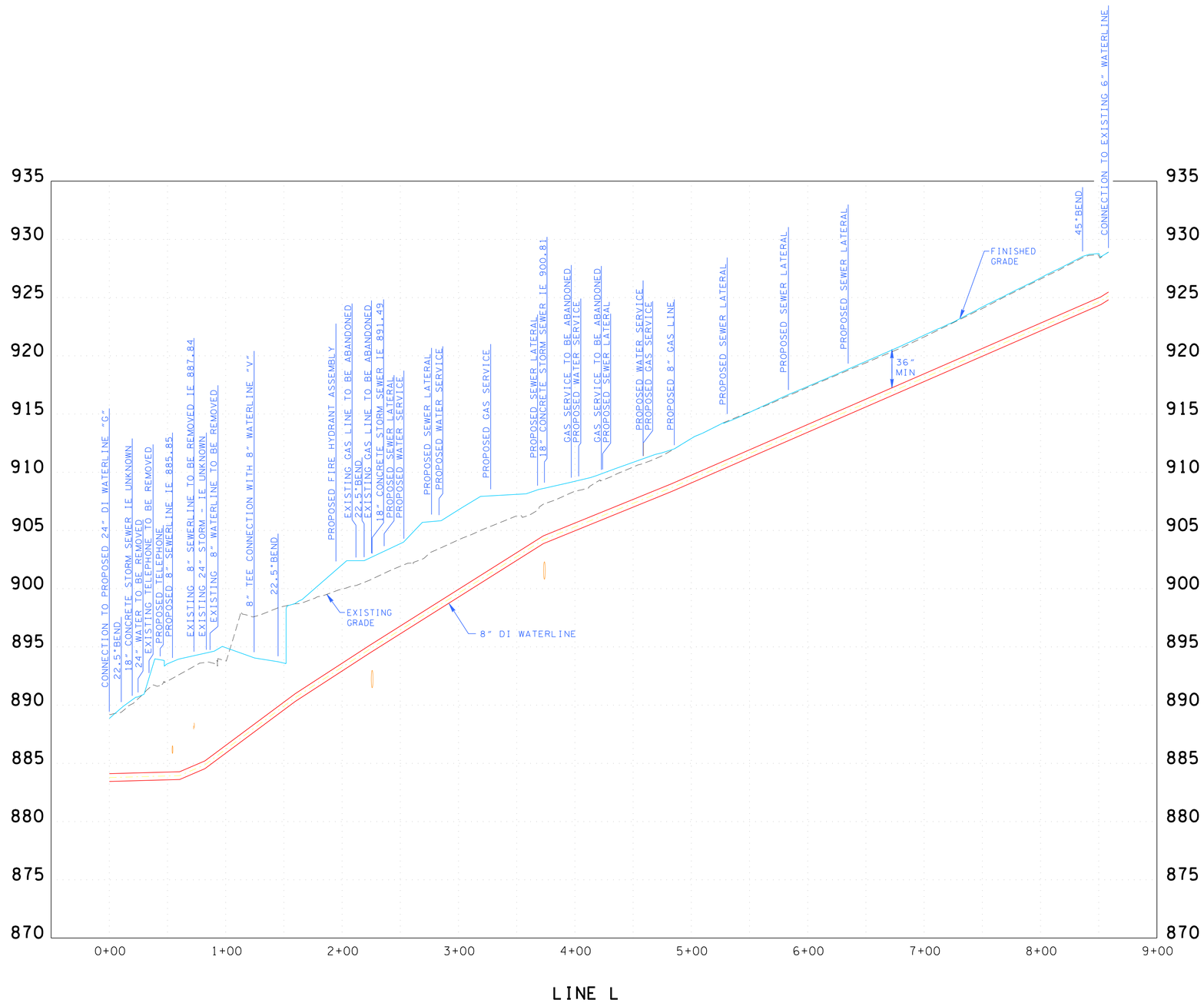
TENNESSEE D.O.T.	
DESIGN DIVISION	
FILE NO.	

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-22

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TORN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
WATER LINE L

STA.0+00 TO EOL
SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
F:\34\34826\348260O\CAD\ENVR\Construction Drawings\Plot\3482600_U3-22.DGN

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-23

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
WATER
LINE M

STA.0+00 TO EOL
SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
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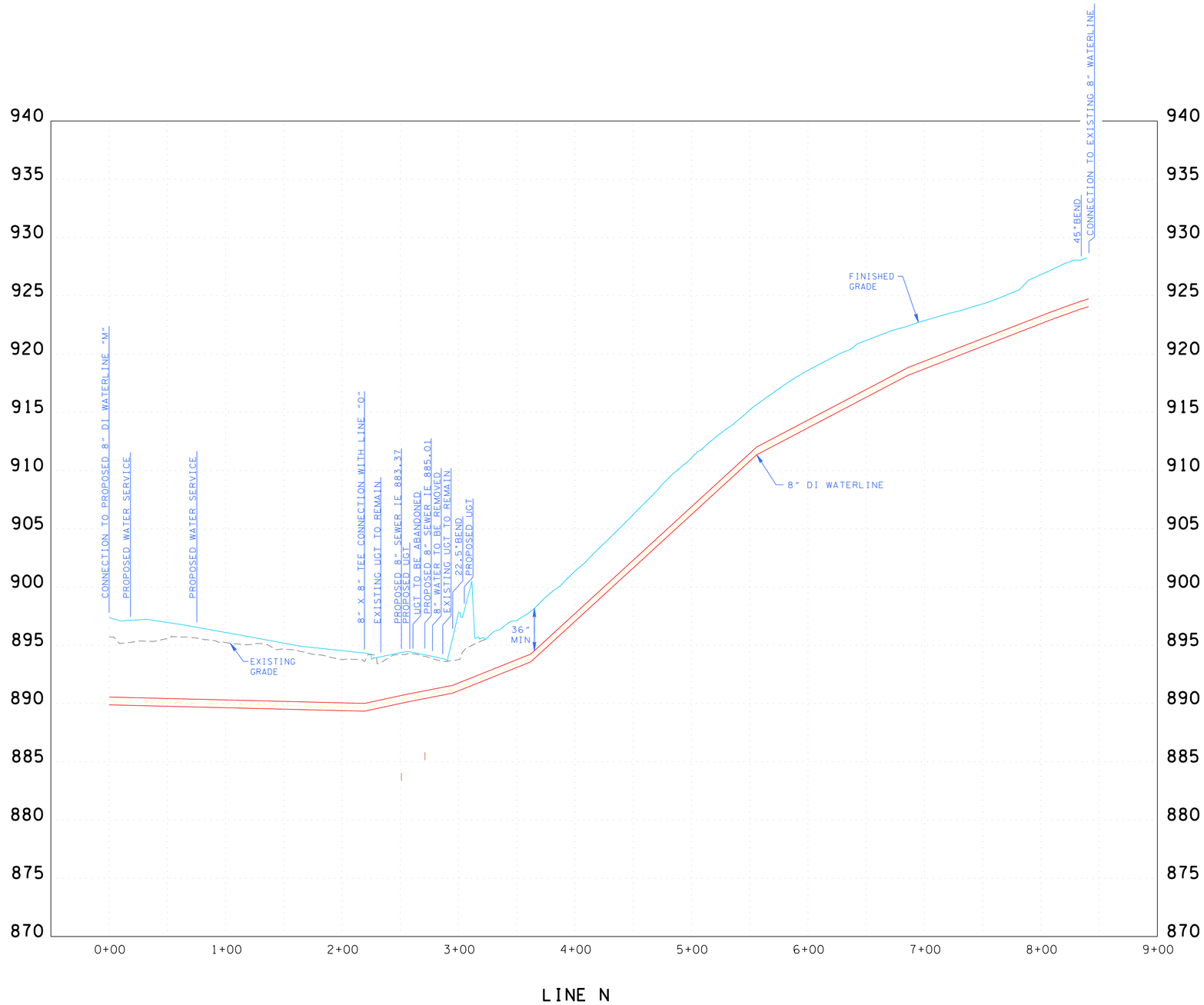
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-24

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

BWSC BARGE WAGGONER SUMNER & CANNON, INC.
520 West Summit Hill Drive, Suite 1202, Knoxville, Tennessee 37902
PHONE (865) 637-2810 FAX (865) 673-8554
BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
WATER LINE N

STA.0+00 TO EOL

SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
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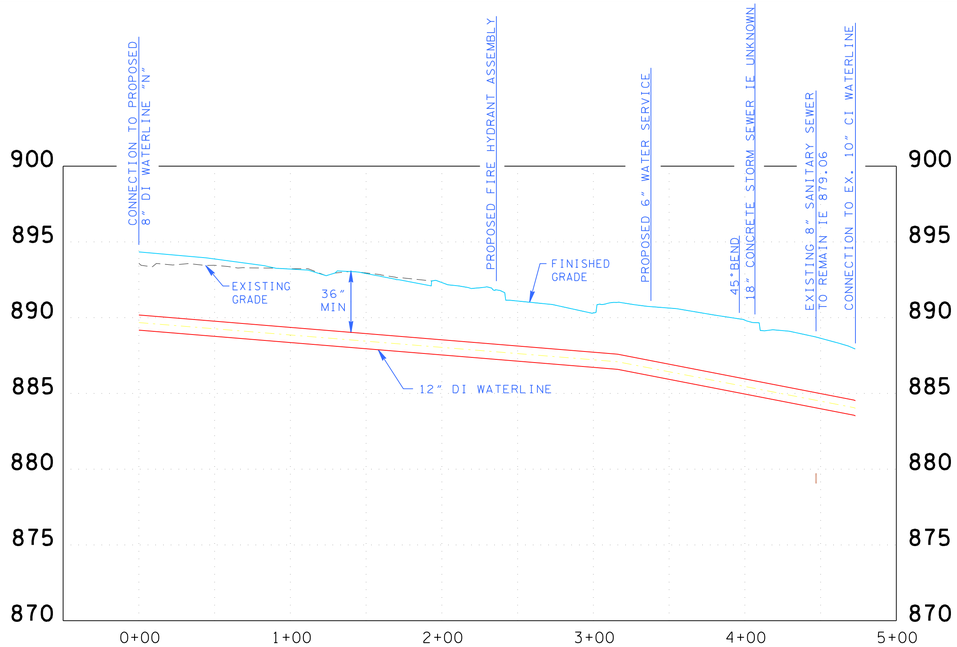
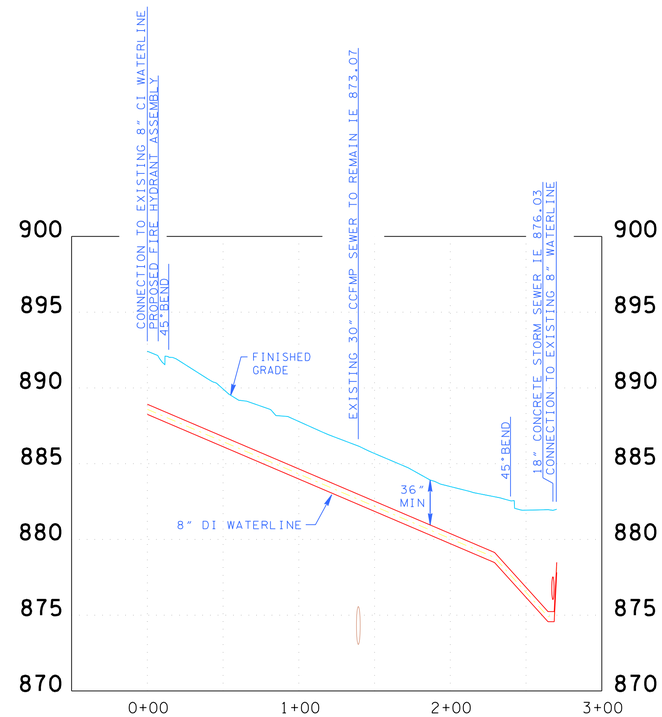
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-25

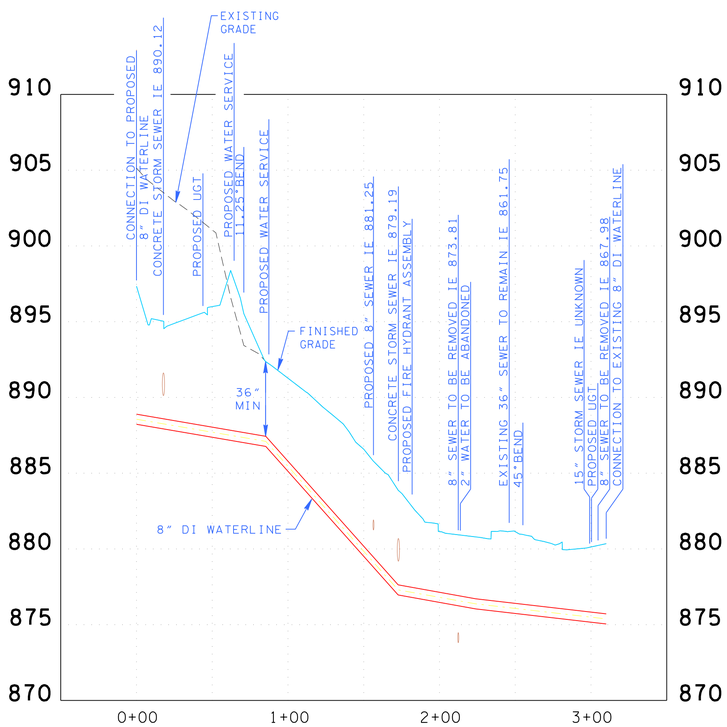
S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE O



LINE P



LINE Q

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
WATER
LINES O, P & Q

STA. 0+00 TO EOL
SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
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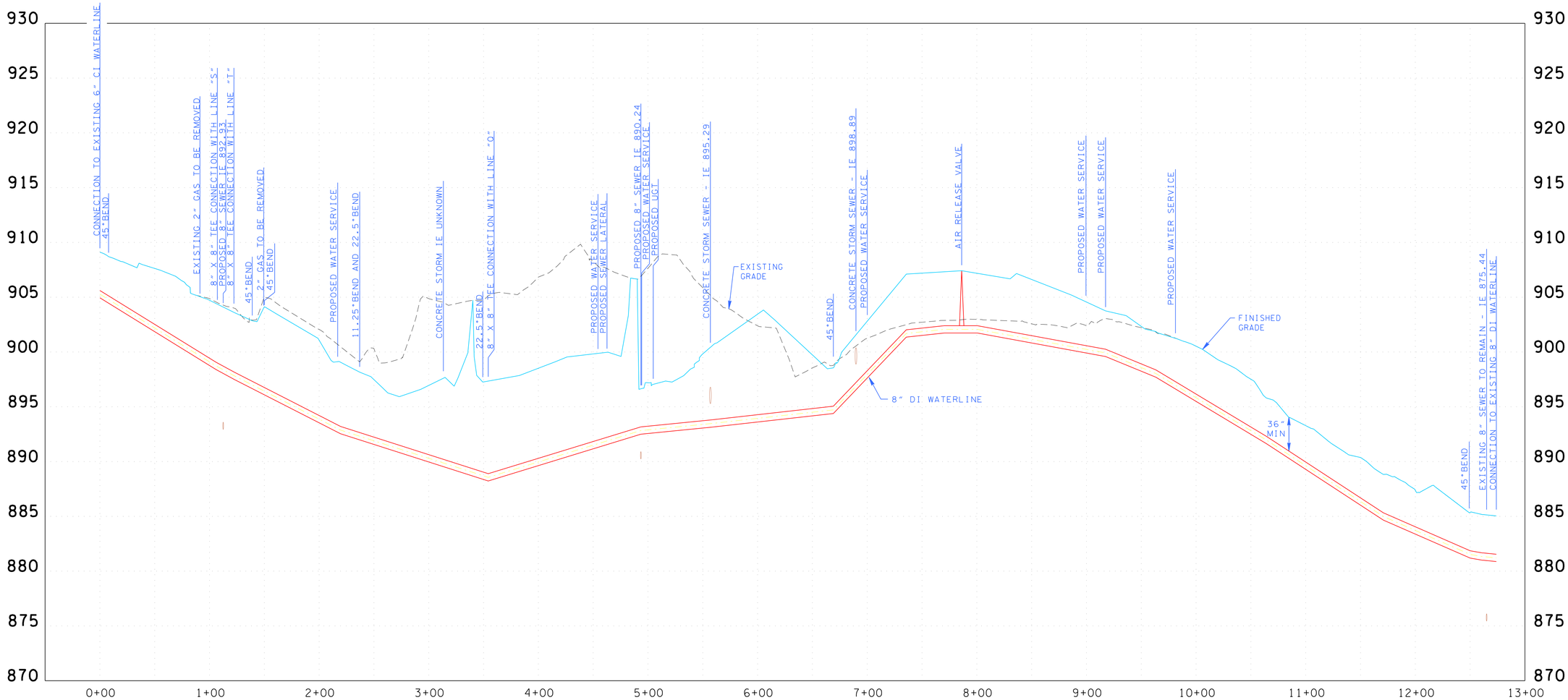
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-26

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE R

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

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BWSC PROJECT NO. 34826-00

KNOXVILLE UTILITIES BOARD

PROFILE
WATER
LINE R

STA.0+00 TO EOL

SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
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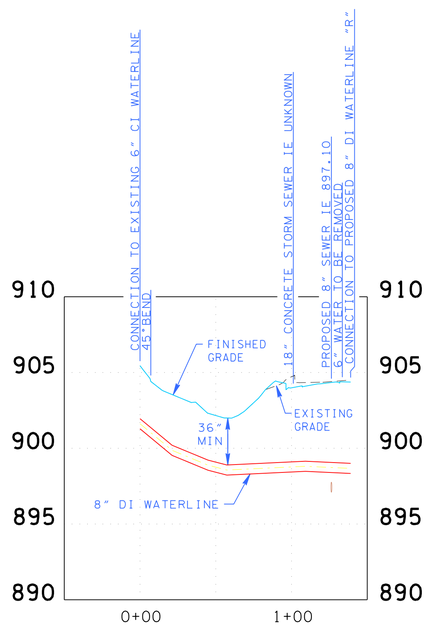
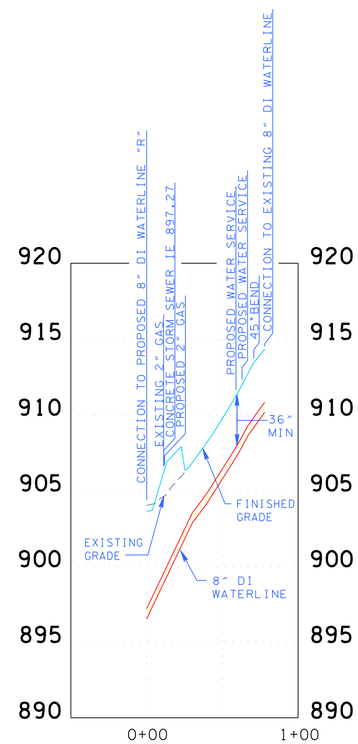
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-27

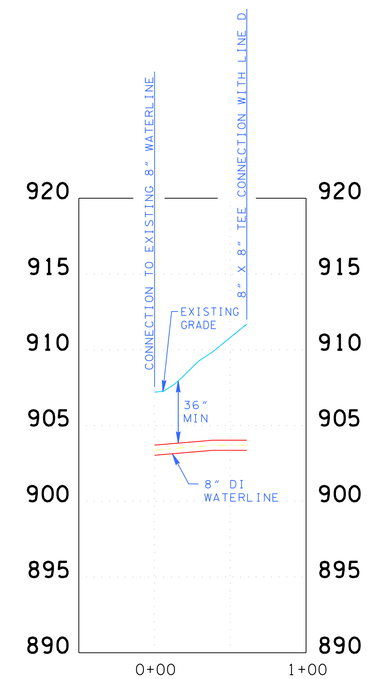
S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE S



LINE T



LINE U

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

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KNOXVILLE UTILITIES BOARD

PROFILE
WATER
LINES S,T & U

STA.0+00 TO EOL
SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
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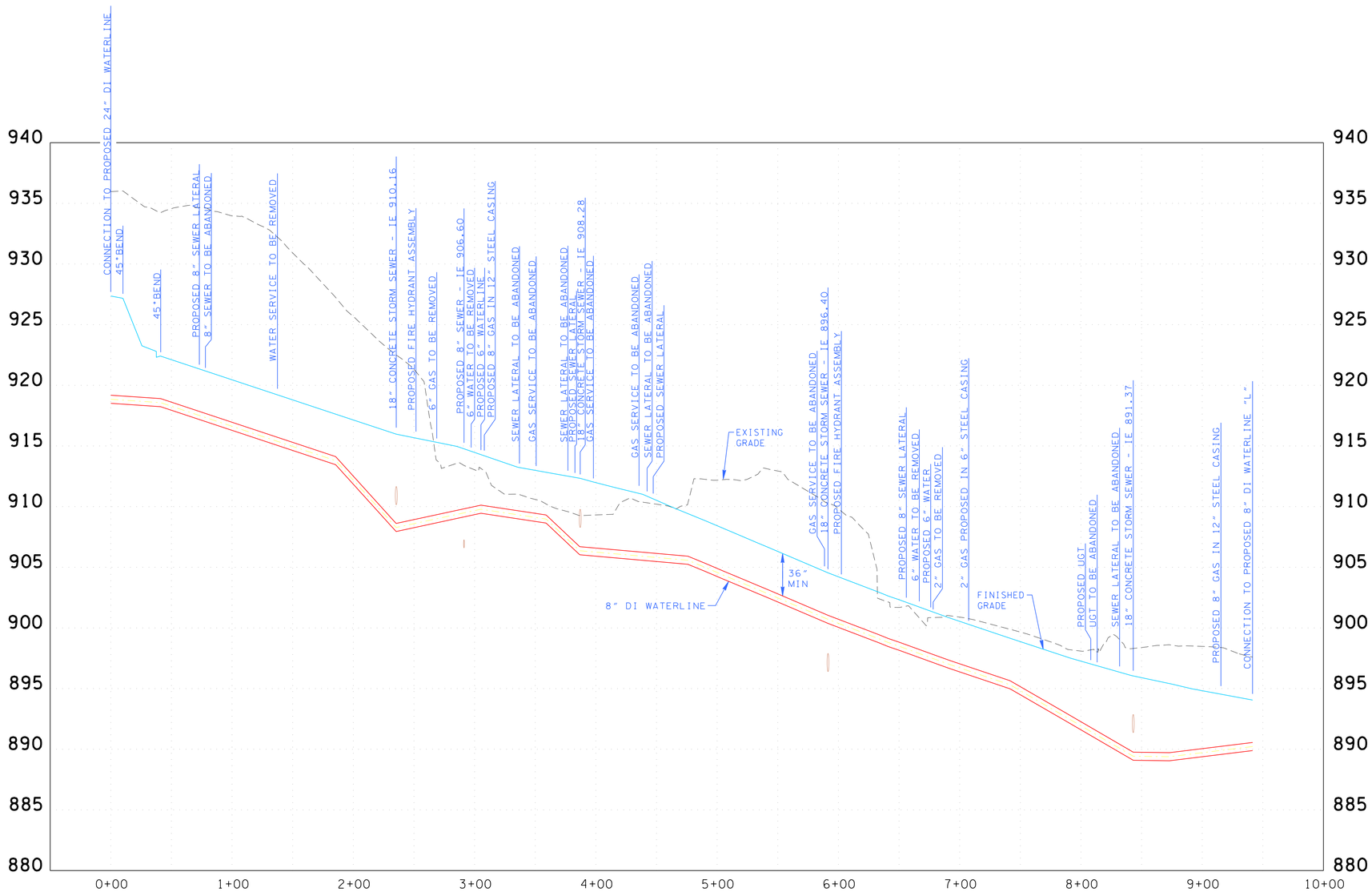
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2016	HPP/STP-62(34)	U3-28

S.R. 62 (WESTERN AVE.) KNOX CO.
47023-3261-14 (CONST.)
PIN #101204.00



LINE V

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

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KNOXVILLE UTILITIES BOARD

PROFILE
WATER
LINE V

STA.0+00 TO EOL
SCALE: 1"=5' HORIZ.
1"=50' VERT.

2/4/2016
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