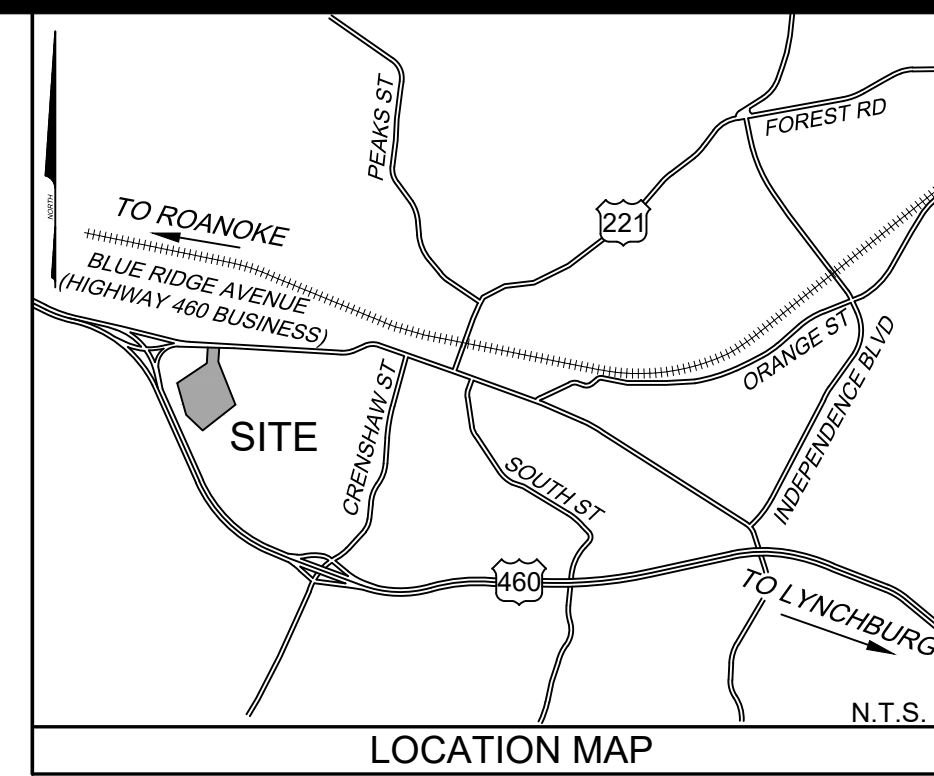


# WESTERN HILLS SANITARY SEWER REPLACEMENT

## BEDFORD REGIONAL WATER AUTHORITY

### BEDFORD COUNTY, VIRGINIA

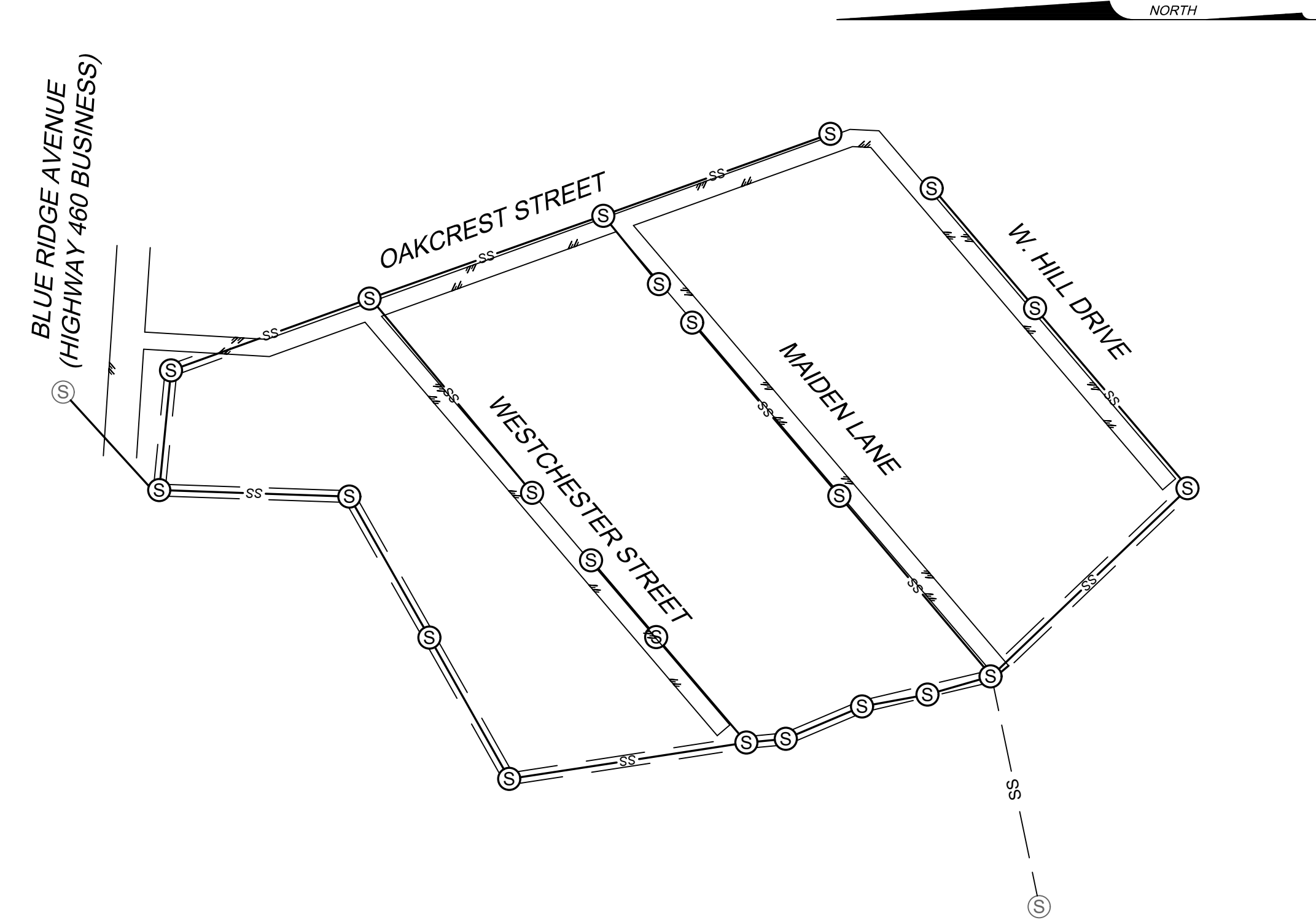
#### BRWA JOB NO. 2023-XXX



**HURT & PROFFITT**  
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VICINITY MAP  
GRAPHIC SCALE IN FEET  
SHEET INDEX

**OWNER**  
BEDFORD REGIONAL WATER AUTHORITY (BRWA)  
1723 FALLING CREEK RD.  
BEDFORD, VA 24523

**CONTACT**  
WHITNEY QUARLES, PE  
ENGINEERING MANAGER  
(540)586-7679

**VDOT CONTACT**  
TODD K. DANIEL  
BEDFORD, FRANKLIN COUNTY RESIDENCY  
540-586-7910

- PROPOSED LEGEND**
- SS— SANITARY LINE (GRAVITY)
  - ⊙ SANITARY MANHOLE
  - ⊙ SANITARY CLEANOUT
  - NEW TREELINE
  - CONCRETE ENCASEMENT
  - PAVEMENT PATCH

- EXISTING LEGEND**
- IRON PIN FOUND
  - ⊙ UTILITY POLE
  - GUY WIRE
  - ⊙ TELEPHONE PEDESTAL
  - TEL. MARK TELEPHONE MARKER
  - ⊙ CLEANOUT
  - ⊙ WATER METER
  - ⊙ WATER VALVE
  - ⊙ SANITARY MANHOLE
  - ⊙ FIRE HYDRANT
  - EDGE OF PAVEMENT
  - CREEK
  - ⊙ BENCHMARK
  - MAILBOX
  - SIGN
  - GUARDRAIL
  - EDGE OF WOODS
  - CHAIN LINK FENCE
  - WOODEN FENCE
  - OVERHEAD UTILITY
  - SS— UG SAN. SEWER LINE
  - UG STORM LINE
  - UG WATER LINE
  - CONCRETE
  - BLOCK/CONC. WALL
  - APPROXIMATE FLOOD ZONE

- SHEET NO. - SHEET TITLE
- G-101 - COVER SHEET
  - G-102 - NOTES
  - G-103 - EROSION AND SEDIMENT CONTROL NOTES
  - G-104 - EROSION AND SEDIMENT CONTROL DETAILS
  - V-101 - TOPOGRAPHIC SURVEY
  - V-102 - TOPOGRAPHIC SURVEY
  - C-101 - SANITARY SEWER EASMENT (BLUE RIDGE AVE. TO W. HILL DR.)
  - C-102 - SANITARY SEWER EASMENT (BLUE RIDGE AVE. TO W. HILL DR.)
  - C-201 - WEST HILL DRIVE SANITARY SEWER
  - C-301 - OAKCREST STREET (BLUE RIDGE AVE. TO WESTCHESTER ST.)
  - C-302 - OAKCREST STREET (WESTCHESTER ST. TO W. HILL DR.)
  - C-401 - MAIDEN LANE
  - C-501 - WESTCHESTER STREET
  - C-601 - PAVEMENT RESTORATION PLAN
  - C-602 - PAVEMENT RESTORATION PLAN
  - C-701 - TRAFFIC CONTROL DETAILS

VIRGINIA CERTIFIED RESPONSIBLE LAND DISTURBER

NAME - PRINTED	SIGNATURE	DATE
PHONE #	COMPANY	
ADDRESS		

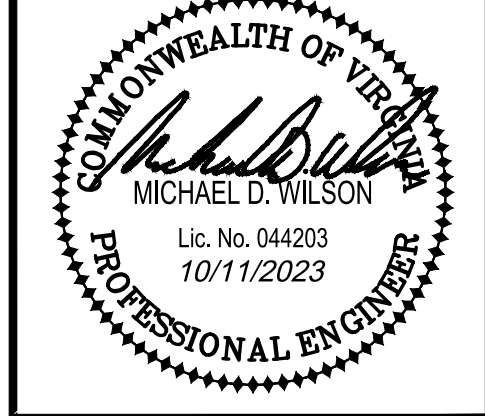
THE ENGINEER AND/OR SURVEYOR TAKES NO RESPONSIBILITY FOR THE LOCATION OR ACCURACY OF THE UTILITIES AS SHOWN HEREON OR ANY UTILITIES WITHIN THE PROJECT THAT MAY NOT BE SHOWN HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES TO SEE IF ANY UTILITIES EXIST WITHIN THE AREA OF THE PROJECT BEFORE ANY CONSTRUCTION BEGINS. ANY COST INCURRED BY DAMAGING ANY UTILITY WITHIN THE PROJECT SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

48 WORKING HOURS PRIOR TO STARTING THE WORK, THE CONTRACTOR SHALL CALL MISS UTILITY AT 1-800-552-7001 AND ADVISE THE NATURE AND LOCATION OF THE WORK.



**COVER SHEET**  
 FOR  
**BRWA WESTERN HILLS SANITARY SEWER REPLACEMENT**  
 BEDFORD, VIRGINIA

PROJECT NO.	20230482
FILE NO.	
LAT.	37.332627°
LONG.	-79.540603°
DATE:	10/11/2023
DRAWN BY:	MSF
CHECKED BY:	MDW



**FINAL**

BRWA JOB #  
2023-018

**HURT & PROFFITT**

SHEET NO.	REV.
G-101	

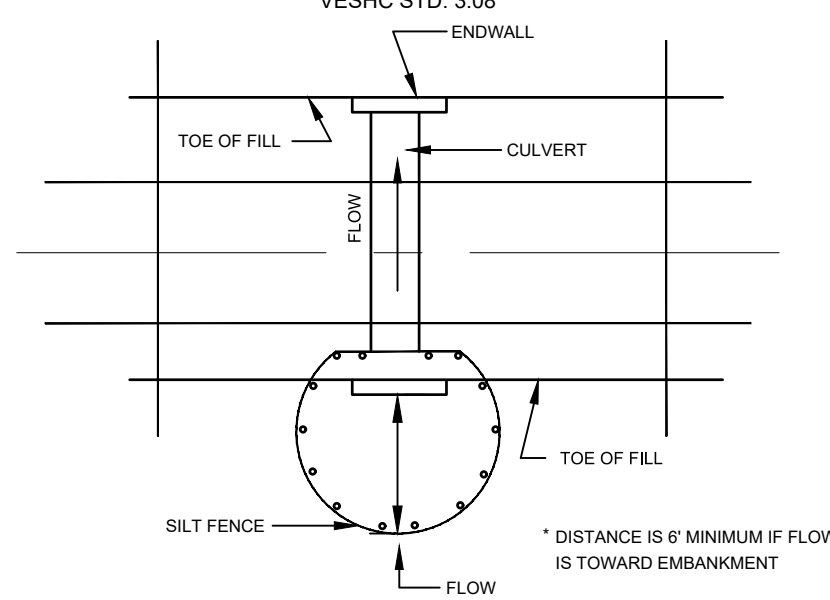
THIS SHEET IS INTENDED TO BE REPRODUCED AT 24X36. REPRODUCTION OF THIS SHEET AT A DIFFERENT SIZE THAN INTENDED SHALL VOID THE SCALE SHOWN ON THE SHEET.



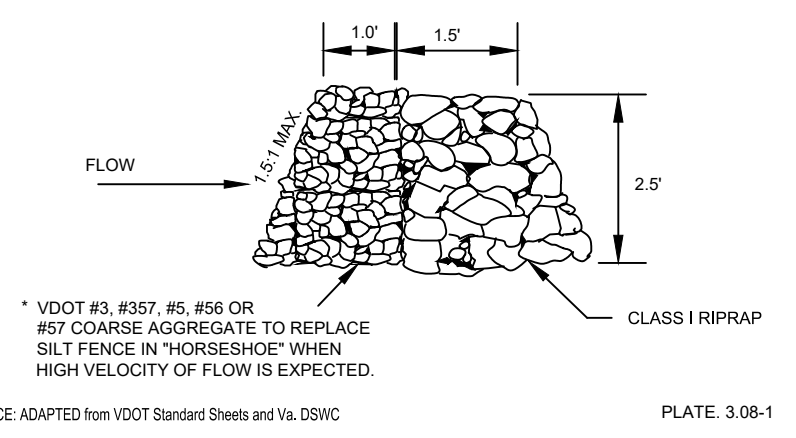


THIS SHEET IS INTENDED TO BE REPRODUCED AT 1/8" = 1'-0" SCALE. REPRODUCTION OF THIS SHEET AT A DIFFERENT SCALE THAN INTENDED SHALL VOID THE SCALE SHOWN ON THE SHEET.

**SILT FENCE CULVERT INLET PROTECTION** (CIP) VESHC STD. 3.08



**\* OPTIONAL STONE COMBINATION**



**TABLE 3.31-B** (TS)  
(Revised June 2003)  
**TEMPORARY SEEDING SPECIFICATIONS**  
**QUICK REFERENCE FOR ALL REGIONS**

SEED		
APPLICATION DATES	SPECIES	APPLICATION RATES
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 - 100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (lolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/acre)

**FERTILIZER & LIME**

- Apply 10-20-10 fertilizer at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

**NOTE:**

- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.
- When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin #4, 2003 Nutrient Management for Development Sites at <http://www.dcr.state.va.us/sw/e&s.htm#pubs>

**TABLE 3.32-D** (PS)  
(Revised June 2003)  
**PERMANENT SEEDING SPECIFICATIONS FOR PIEDMONT AREA**

SEED <sup>1</sup>		
LAND USE	SPECIES	APPLICATION PER ACRE
Minimum Care Lawn (Commercial or Residential)	Tall Fescue <sup>3</sup>	95-100%
	Perennial Ryegrass	0-5%
	Kentucky Bluegrass <sup>3</sup>	0-5%
		TOTAL: 175-200 lbs.
High-Maintenance Lawn	Tall Fescue <sup>3</sup>	TOTAL: 200-250 lbs.
General Slope (3:1 or less)	Tall Fescue <sup>3</sup>	128 lbs.
	Red Top Grass or Creeping Red Fescue	20 lbs.
	Seasonal Nurse Crop <sup>2</sup>	20 lbs.
		TOTAL: 150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue <sup>3</sup>	108 lbs.
	Red Top Grass or Creeping Red Fescue	2 lbs.
	Seasonal Nurse Crop <sup>2</sup>	20 lbs.
		TOTAL: 150 lbs.

**1** - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-746-4884 or at <http://susan.cses.vt.edu/html/Turf/turfpublications/publications2.html>

**2** - Use seasonal nurse crop in accordance with seeding dates as stated below:

February 16 <sup>th</sup> - April	.....	Annual Rye
May 1 <sup>st</sup> - August 15 <sup>th</sup>	.....	Foxtail Millet
August 16 <sup>th</sup> - October	.....	Annual Rye
November - February 15 <sup>th</sup>	.....	Winter Rye

**3** - Substitute Sericea lespedeza for Crownvetch east of Farmville, VA (May through September use hulled seed, all other periods, use unhulled Sericea). If Flatpea is used, increase rate to 30 lbs./acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30-40

**FERTILIZER & LIME**

- Apply 10-20-10 fertilizer at a rate of 500 lbs. / acre (or 12 lbs. / 1,000 sq. ft.)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

**NOTE:**

- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.
- When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin #4, 2003 Nutrient Management for Development Sites at <http://www.dcr.state.va.us/sw/e&s.htm#pubs>

**TABLE 3.35-A** (MU)  
**ORGANIC MULCH MATERIALS AND APPLICATION RATES**

MULCHES	RATES:		NOTES:
	Per Acre	Per 1,000 sq. ft.	
Straw or Hay	1 1/2 - 2 tons (Minimum 2 tons for winter cover)	70 - 90 lbs.	Free from weeds and coarse matter. Must be anchored. Spread with a mulch blower or by hand.

**EROSION AND SEDIMENT CONTROL DEVICES:**  
PERIMETER EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY. AS CONSTRUCTION PROCEEDS, ALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS SOON AS POSSIBLE. EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLAN ARE A MINIMUM AND THE PROJECT CONDITION MAY DICTATE ADDITIONAL CONTROL. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PER THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

**EROSION AND SEDIMENT CONTROL MAINTENANCE:**  
THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES FOR THE DURATION OF THE PROJECT. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CHECKED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL TO INSURE THAT ALL DEVICES ARE IN PLACE AND FUNCTIONING AS REQUIRED. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED PER THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. IN GENERAL, IF THE SILT BUILT UP BEHIND A BARRIER BECOMES AS DEEP AS 9 INCHES, THE SILT IS TO BE REMOVED AND THE BARRIER REPAIRED OR REPLACED. AFTER COMPLETION OF THE PROJECT, AND PERMANENT SEEDING HAS BEEN ESTABLISHED, EROSION CONTROL DEVICES AND ANY SILT BUILT UP SHALL BE REMOVED. DISTURBED AREAS DUE TO THIS CLEANUP OPERATION SHALL BE REPAIRED, RESEEDED AND REMULCHED.

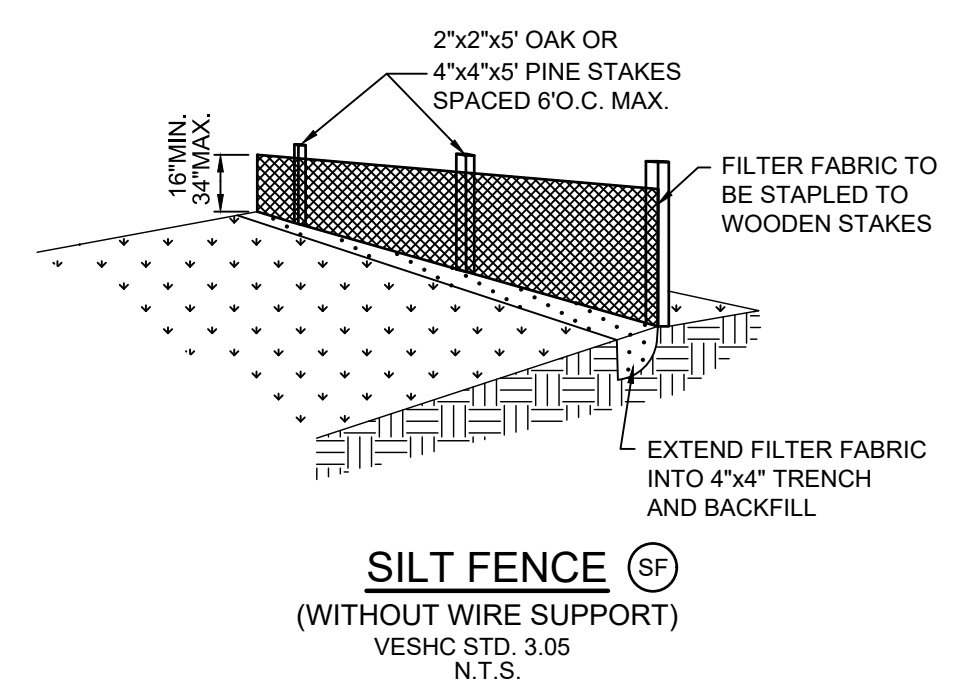
**VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES**  
\* CHART TAKEN FROM THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (JULY 1992)

- (SF) SILT FENCE
- (TS) TEMPORARY SEEDING
- (PS) PERMANENT SEEDING
- (MU) MULCH
- (CIP) CULVERT INLET PROTECTION
- (IP) INLET PROTECTION
- (RR) RIP RAP

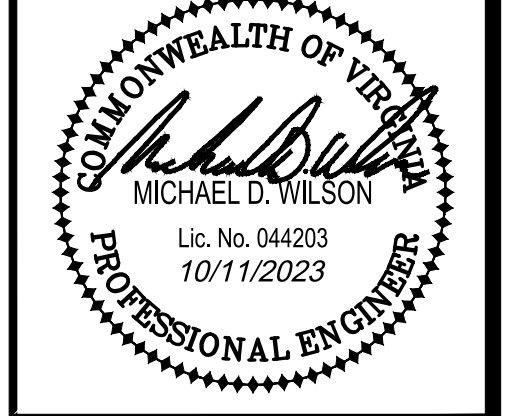
**TABLE 3.19-B**  
**GRADED RIPRAP - DESIGN VALUES**

RIPRAP CLASS	D <sub>15</sub> WEIGHT (LBS.)	MEAN D <sub>15</sub> SPHERICAL DIAMETER (FT.)	MEAN D <sub>50</sub> SPHERICAL DIAMETER (FT.)
CLASS AI	25	0.7	0.9
CLASS I	50	0.8	1.1
CLASS II	150	1.3	1.6
CLASS III	500	1.9	2.2
TYPE I	1,500	2.6	2.8
TYPE II	6,000	4.0	4.5

SOURCE: VDOT DRAINAGE MANUAL



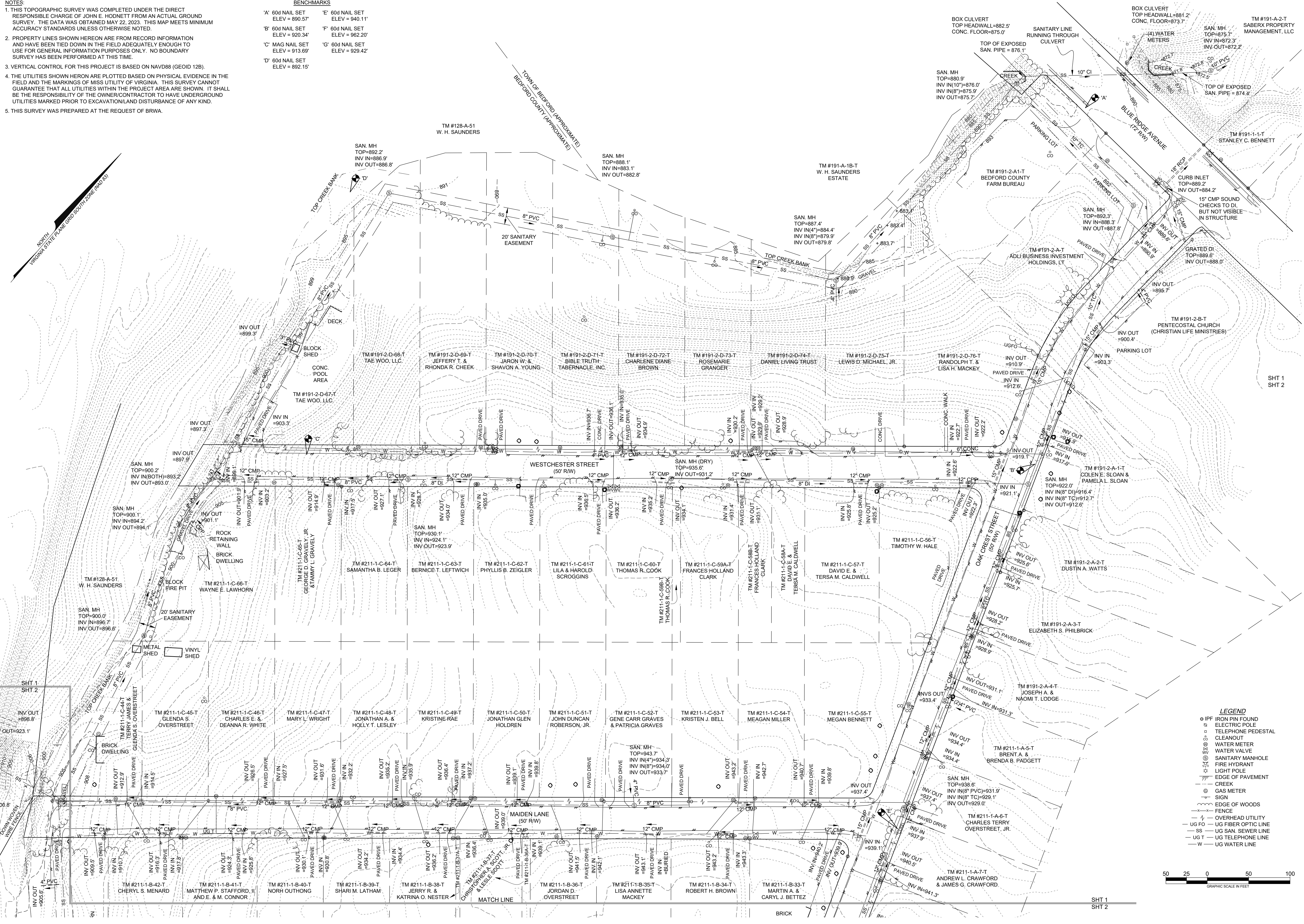
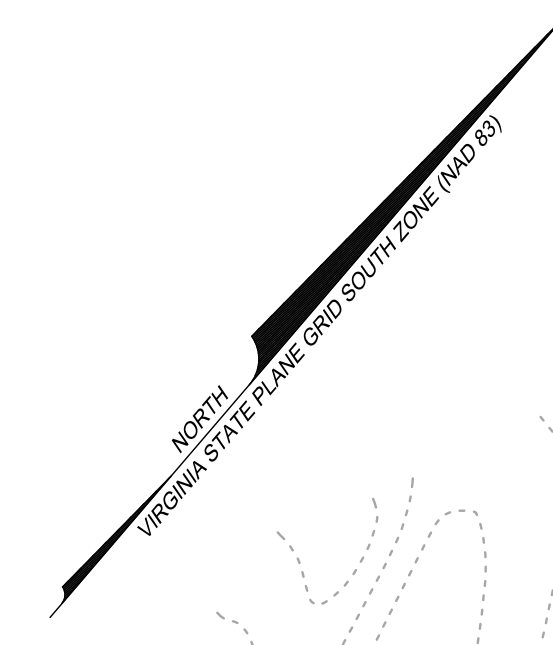
PROJECT NO. 20230482  
FILE NO. \_\_\_\_\_  
LAT. 37.332627°  
LONG. -79.540603°  
DATE: 10/11/2023  
DRAWN BY: MSF  
CHECKED BY: MDW



- NOTES:**
1. THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT RESPONSIBLE CHARGE OF JOHN E. HODNETT FROM AN ACTUAL GROUND SURVEY. THE DATA WAS OBTAINED MAY 22, 2023. THIS MAP MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
  2. PROPERTY LINES SHOWN HEREON ARE FROM RECORD INFORMATION AND HAVE BEEN TIED DOWN IN THE FIELD ADEQUATELY ENOUGH TO USE FOR GENERAL INFORMATION PURPOSES ONLY. NO BOUNDARY SURVEY HAS BEEN PERFORMED AT THIS TIME.
  3. VERTICAL CONTROL FOR THIS PROJECT IS BASED ON NAVD88 (GEOID 12B).
  4. THE UTILITIES SHOWN HEREON ARE PLOTTED BASED ON PHYSICAL EVIDENCE IN THE FIELD AND THE MARKINGS OF MISS UTILITY OF VIRGINIA. THIS SURVEY CANNOT GUARANTEE THAT ALL UTILITIES WITHIN THE PROJECT AREA ARE SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO HAVE UNDERGROUND UTILITIES MARKED PRIOR TO EXCAVATION/LAND DISTURBANCE OF ANY KIND.
  5. THIS SURVEY WAS PREPARED AT THE REQUEST OF BRWA.

**BENCHMARKS**

'A' 60d NAIL SET ELEV = 890.57'	'E' 60d NAIL SET ELEV = 940.11'
'B' 60d NAIL SET ELEV = 920.34'	'F' 60d NAIL SET ELEV = 982.20'
'C' MAG NAIL SET ELEV = 913.69'	'G' 60d NAIL SET ELEV = 929.42'
'D' 60d NAIL SET ELEV = 892.15'	



- LEGEND**
- IFF IRON PIN FOUND
  - ⊕ ELECTRIC POLE
  - TELEPHONE PEDESTAL
  - CLEANOUT
  - ⊗ WATER METER
  - ⊕ WATER VALVE
  - ⊕ SANITARY MANHOLE
  - ⊕ FIRE HYDRANT
  - ⊕ LIGHT POLE
  - EDGE OF PAVEMENT
  - CREEK
  - ⊕ GAS METER
  - SIGN
  - EDGE OF WOODS
  - FENCE
  - OVERHEAD UTILITY
  - UG FO — UG FIBER OPTIC LINE
  - SS — UG SAN. SEWER LINE
  - UG T — UG TELEPHONE LINE
  - W — UG WATER LINE



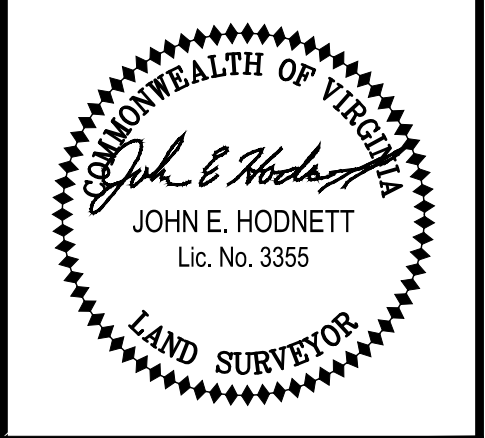
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**TOPOGRAPHIC SURVEY FOR**  
**FOR**  
**BRWA WESTERN HILLS SANITARY SEWER REPLACEMENT**  
**BEDFORD, VIRGINIA**

PROJECT NO.	20230482
FILE NO.	
LAT.	37.332627°
LONG.	-79.540603°
DATE	05/22/2023
DRAWN BY:	MCM
CHECKED BY:	JEH

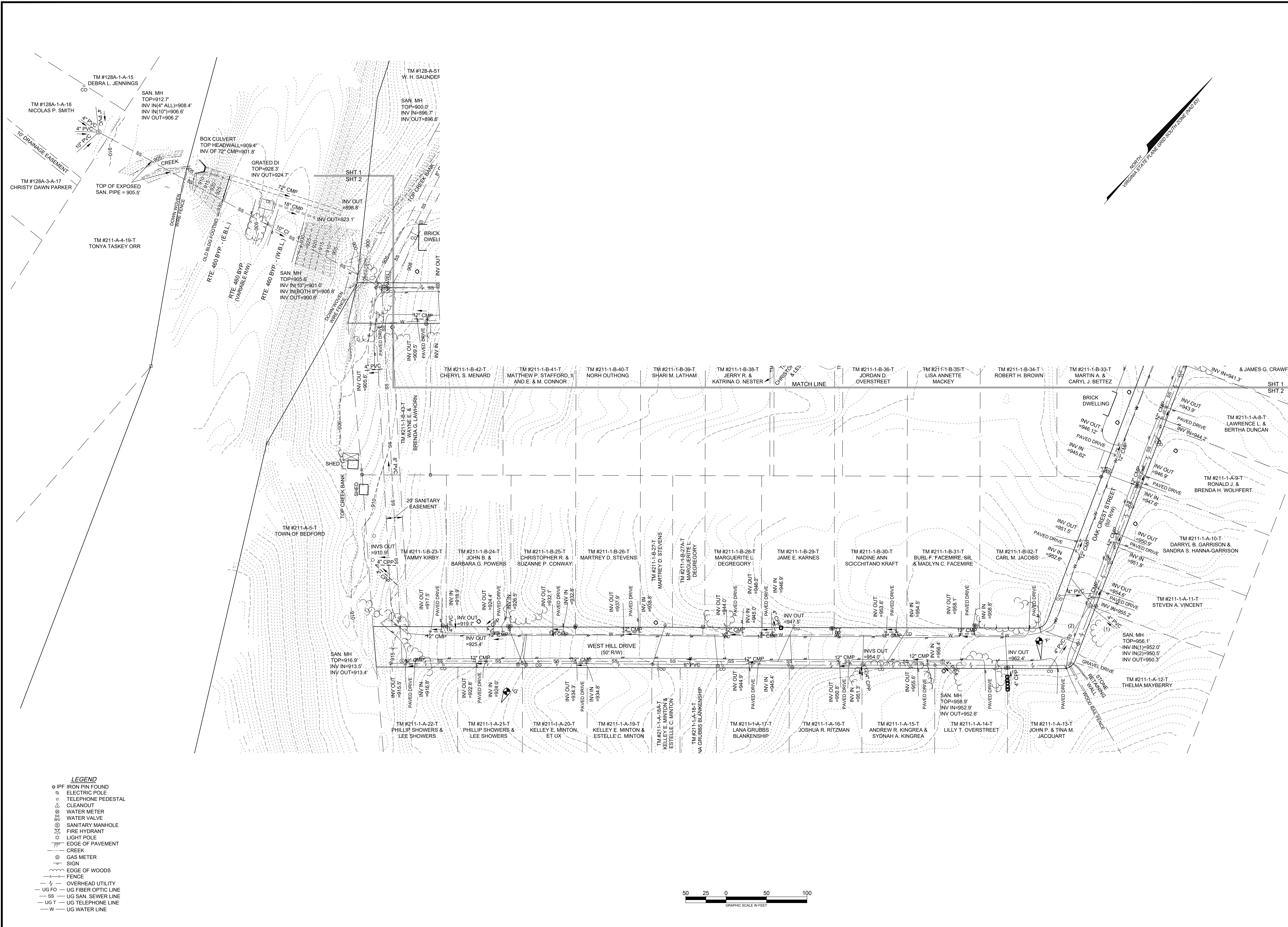


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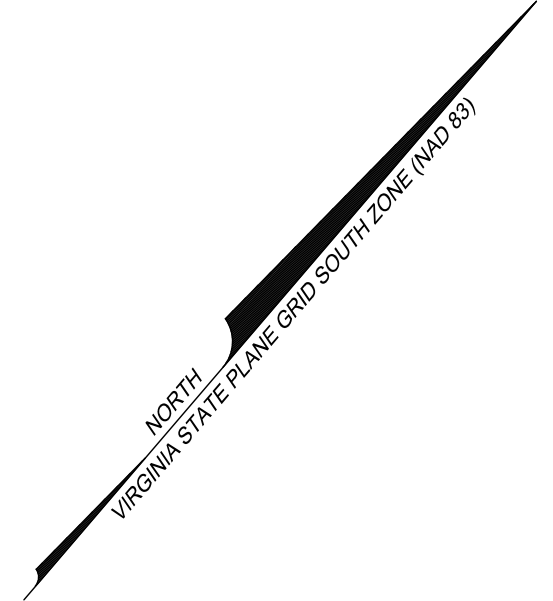
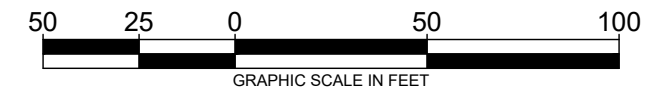
BRWA JOB #  
2023-018

**HURT & PROFFITT**

SHEET NO.	REV.
V-101	

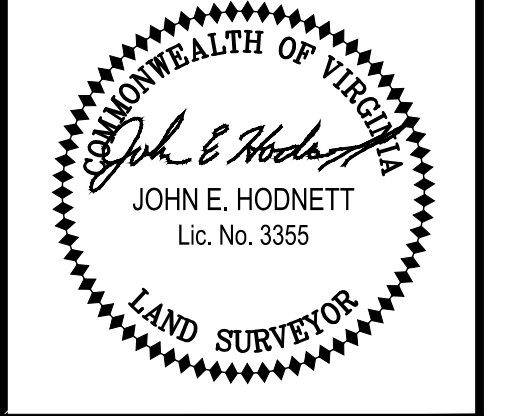


- LEGEND**
- IPF IRON PIN FOUND
  - ⊙ ELECTRIC POLE
  - TELEPHONE PEDESTAL
  - CLEANOUT
  - ⊙ WATER METER
  - ⊙ WATER VALVE
  - ⊙ SANITARY MANHOLE
  - ⊙ FIRE HYDRANT
  - ⊙ LIGHT POLE
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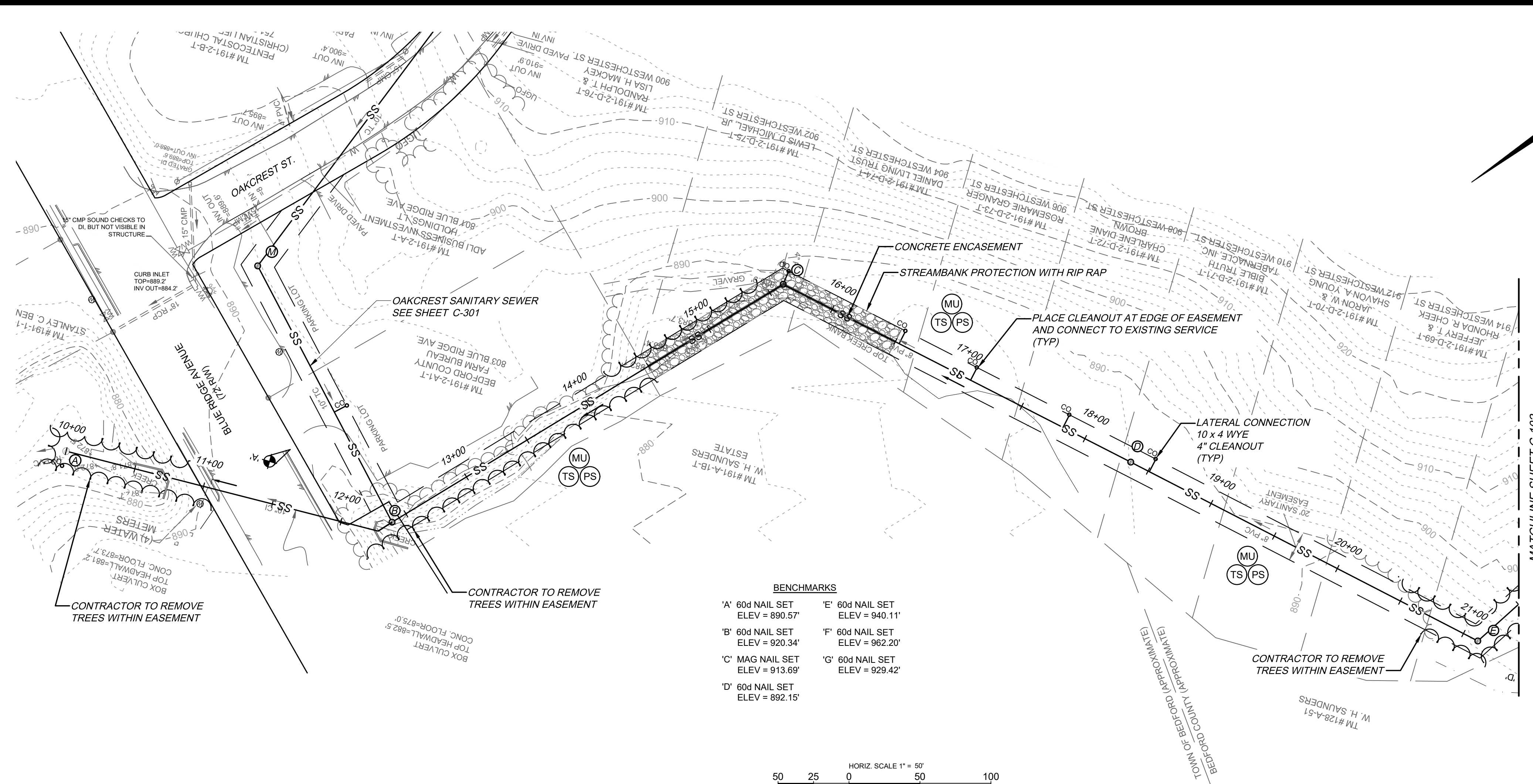


**TOPOGRAPHIC SURVEY FOR**  
**FOR**  
**BRWA WESTERN HILLS SANITARY SEWER REPLACEMENT**  
**BEDFORD, VIRGINIA**

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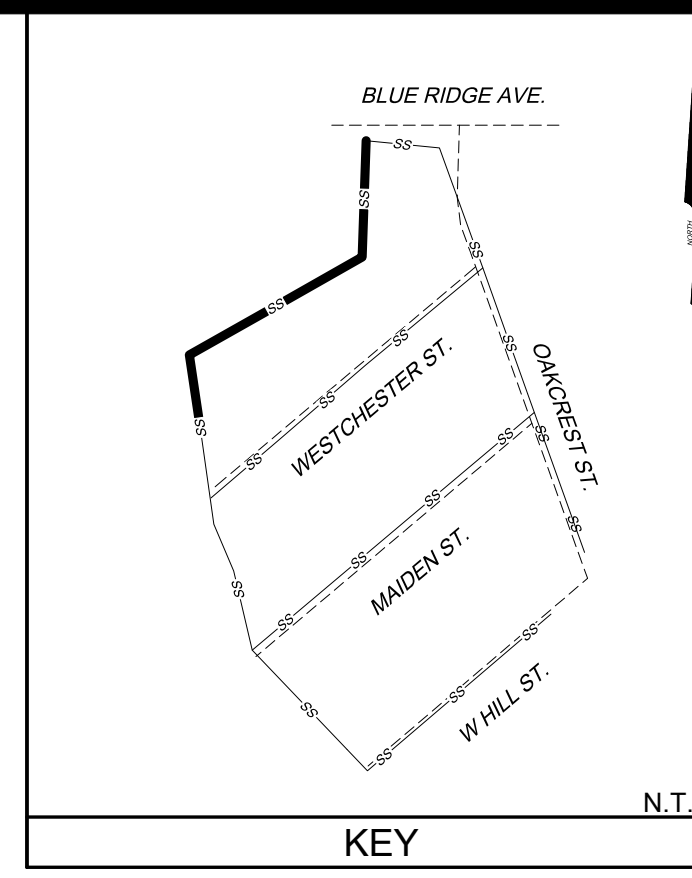
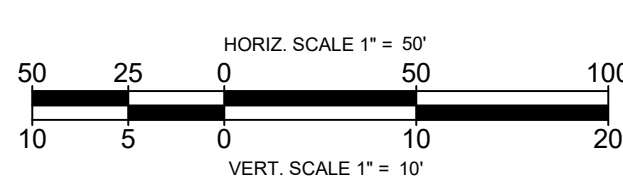


THIS SHEET IS INTENDED TO BE REPRODUCED AT 24X36. REPRODUCTION OF THIS SHEET AT A DIFFERENT SIZE THAN INTENDED SHALL VOID THE SCALE SHOWN ON THE SHEET.

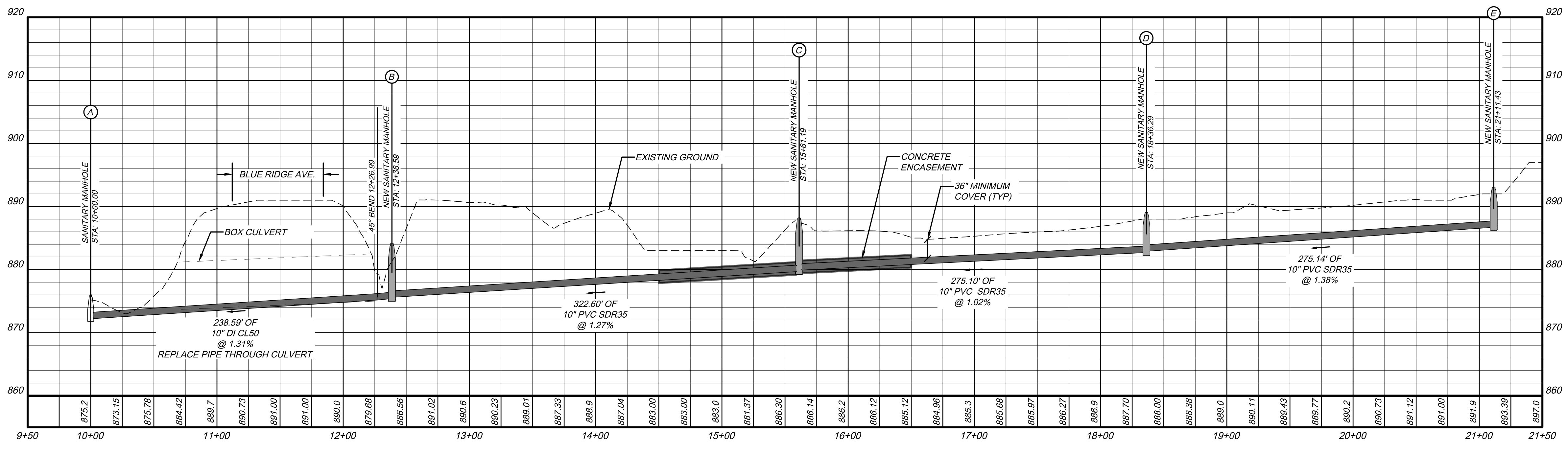


**BENCHMARKS**

A' 60d NAIL SET ELEV = 890.57'	E' 60d NAIL SET ELEV = 940.11'
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D' 60d NAIL SET ELEV = 892.15'	



- NOTES:**
- EXISTING SANITARY SEWER TO BE REPLACED IN THE SAME TRENCH. NEW TRENCH BOTTOM MAY BE LOWER IN SOME LOCATIONS TO PROVIDE SUFFICIENT COVER OVER PIPE.
  - CONTRACTOR TO PROVIDE BYPASS PUMPING.
  - ALL MANHOLES WILL BE REPLACED.
  - ALL EXISTING ACTIVE SERVICES TO HAVE CLEANOUTS. IN SOME CASES AN EXISTING CLEANOUT WAS NOT FOUND. IN THOSE CASES CONTRACTOR TO INSTALL CLEANOUT ON EXISTING SERVICE WHEN LOCATED DURING CONSTRUCTION.



SANITARY SEWER EASMENT BLUE RIDGE AVE. TO WESTCHESTER ST.

**SANITARY STRUCTURE SCHEDULE**

<b>A</b>	EXISTING SANITARY MANHOLE 48" DIA.; H = 3.69' STA: 10+00.00 SANITARY SEWER TOP: 875.99 N: 3647615.71 E: 11180490.49 INV IN=872.30 FROM B
<b>B</b>	NEW SANITARY MANHOLE (BRWA MH-1) WATERTIGHT CASTING EXTERIOR MANHOLE COATING MANHOLE MARKER 48" DIA.; H = 8.59' STA: 12+38.59 SANITARY SEWER TOP: 884.09 N: 3647451.20 E: 11180322.62 INV IN=875.70 FROM M DEFLECTION: 84.94" L INV IN=875.70 FROM C DEFLECTION: 1.40" R INV OUT=875.50
<b>C</b>	NEW SANITARY MANHOLE (BRWA MH-1) WATERTIGHT CASTING EXTERIOR MANHOLE COATING MANHOLE MARKER 48" DIA.; H = 8.33' STA: 15+61.19 SANITARY SEWER TOP: 888.13 N: 3647128.79 E: 11180311.53 INV IN=880.00 FROM D DEFLECTION: 58.42" R INV IN=880.00 FROM N/A DEFLECTION: 36.11" L INV OUT=879.80
<b>D</b>	NEW SANITARY MANHOLE (BRWA MH-1) WATERTIGHT CASTING EXTERIOR MANHOLE COATING MANHOLE MARKER 48" DIA.; H = 6.20' STA: 18+36.29 SANITARY SEWER TOP: 889.00 N: 3646992.85 E: 11180072.37 INV IN=883.00 FROM E DEFLECTION: 0.17" R INV OUT=882.80
<b>E</b>	NEW SANITARY MANHOLE (BRWA MH-1) WATERTIGHT CASTING EXTERIOR MANHOLE COATING MANHOLE MARKER 48" DIA.; H = 6.20' STA: 21+11.43 SANITARY SEWER TOP: 893.00 N: 3646857.58 E: 11179832.78 INV IN=887.00 FROM F DEFLECTION: 69.26" L INV OUT=886.80

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SANITARY SEWER EASMENT (BLUE RIDGE AVE. TO W. HILL DR.)  
FOR  
BRWA WESTERN HILLS SANITARY SEWER REPLACEMENT  
BEDFORD, VIRGINIA

PROJECT NO.	20230482
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LAT.	37.332627°
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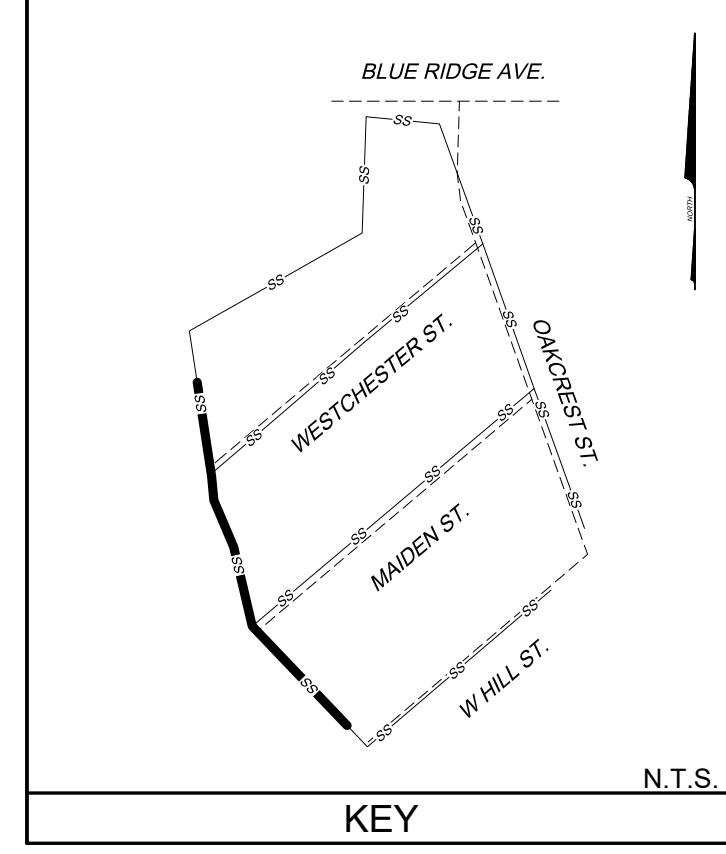
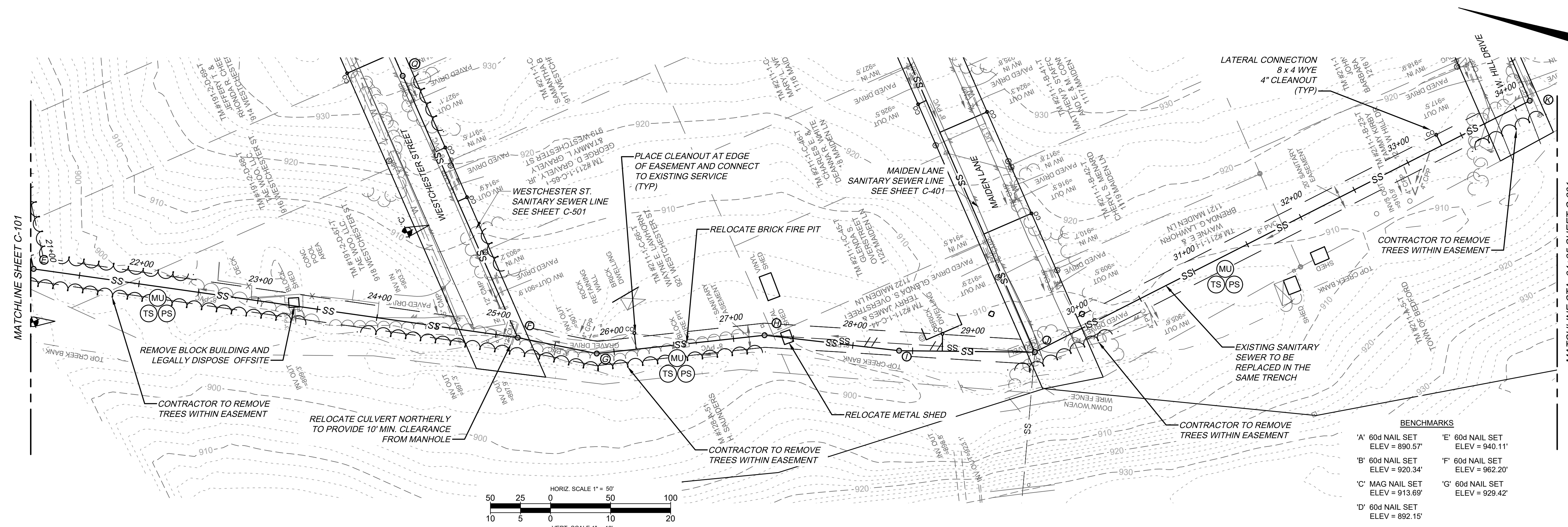
**FINAL**

BRWA JOB #  
2023-018

**HURT & PROFFITT**

SHEET NO.	REV.
C-101	---

THIS SHEET IS INTENDED TO BE REPRODUCED AT 100% REPRODUCTION OF THE SHEET AT A DIFFERENT SIZE THAN INTENDED SHALL VOID THE SCALE SHOWN ON THE SHEET.



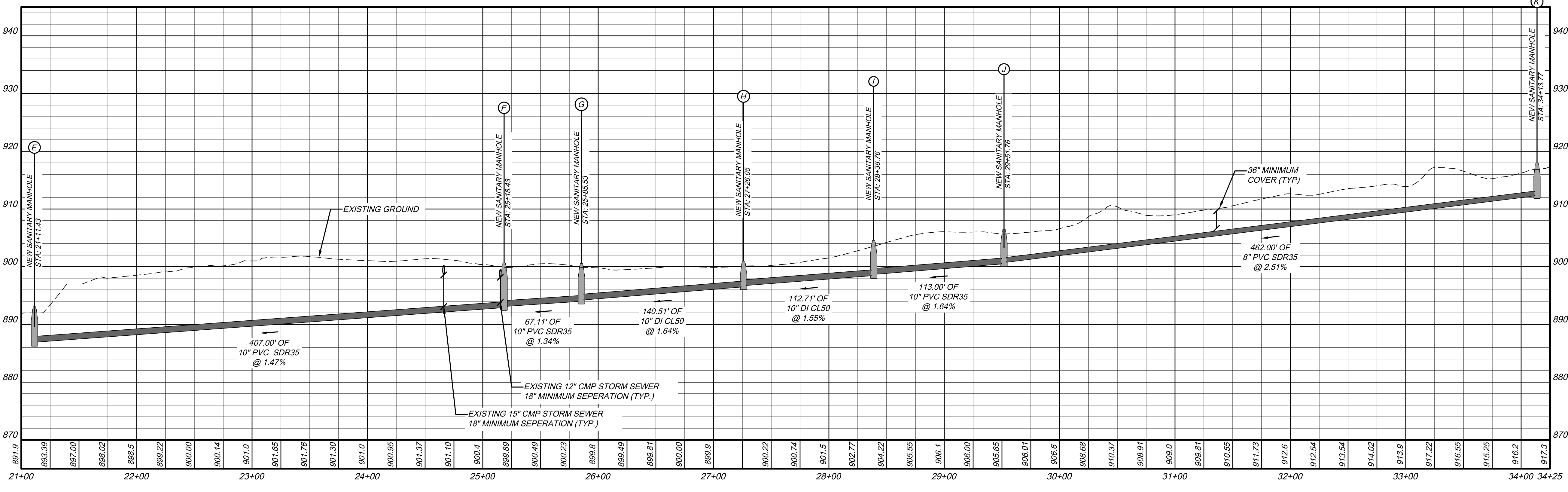
- NOTES:**
- EXISTING SANITARY SEWER TO BE REPLACED IN THE SAME TRENCH. NEW TRENCH BOTTOM MAY BE LOWER IN SOME LOCATIONS TO PROVIDE SUFFICIENT COVER OVER PIPE.
  - CONTRACTOR TO PROVIDE BYPASS PUMPING.
  - ALL MANHOLES WILL BE REPLACED.
  - ALL EXISTING ACTIVE SERVICES TO HAVE CLEANOUTS. IN SOME CASES AN EXISTING CLEANOUT WAS NOT FOUND. IN THOSE CASES CONTRACTOR TO INSTALL CLEANOUT ON EXISTING SERVICE WHEN LOCATED DURING CONSTRUCTION.

**BENCHMARKS**

A' 60d NAIL SET ELEV = 890.57'	E' 60d NAIL SET ELEV = 940.11'
B' 60d NAIL SET ELEV = 920.34'	F' 60d NAIL SET ELEV = 962.20'
C' MAG NAIL SET ELEV = 913.69'	G' 60d NAIL SET ELEV = 929.42'
D' 60d NAIL SET ELEV = 892.15'	

**SANITARY STRUCTURE SCHEDULE**

- NEW SANITARY MANHOLE (BRWA MH-1)  
WATERTIGHT CASTING  
EXTERIOR MANHOLE COATING  
MANHOLE MARKER  
48" DIA., H = 6.20'  
STA: 21+11.43 SANITARY SEWER  
TOP: 893.00  
N: 3646857.58  
E: 11179832.78  
INV IN=887.00 FROM F DEFLECTION: 69.26° L  
INV OUT=886.80
- NEW SANITARY MANHOLE (BRWA MH-1)  
WATERTIGHT CASTING  
EXTERIOR MANHOLE COATING  
MANHOLE MARKER  
48" DIA., H = 7.59'  
STA: 25+18.43 SANITARY SEWER  
TOP: 900.59  
N: 3646455.27  
E: 11179894.40  
INV IN=893.20 FROM G DEFLECTION: 3.30° R  
INV IN=893.20 FROM Q DEFLECTION: 121.81° L  
INV OUT=893.00
- NEW SANITARY MANHOLE (BRWA MH-1)  
WATERTIGHT CASTING  
EXTERIOR MANHOLE COATING  
MANHOLE MARKER  
48" DIA., H = 6.39'  
STA: 25+85.53 SANITARY SEWER  
TOP: 900.49  
N: 3646388.46  
E: 11179900.73  
INV IN=894.30 FROM H DEFLECTION: 17.59° L  
INV OUT=894.10
- NEW SANITARY MANHOLE (BRWA MH-1)  
WATERTIGHT CASTING  
EXTERIOR MANHOLE COATING  
MANHOLE MARKER  
48" DIA., H = 4.29'  
STA: 27+26.05 SANITARY SEWER  
TOP: 900.89  
N: 3646259.12  
E: 11179955.64  
INV IN=896.80 FROM I DEFLECTION: 12.76° R  
INV OUT=896.60
- NEW SANITARY MANHOLE (BRWA MH-1)  
WATERTIGHT CASTING  
EXTERIOR MANHOLE COATING  
MANHOLE MARKER  
48" DIA., H = 5.93'  
STA: 28+38.76 SANITARY SEWER  
TOP: 904.48  
N: 3646148.21  
E: 11179975.67  
INV IN=898.75 FROM J DEFLECTION: 5.91° L  
INV OUT=898.55
- NEW SANITARY MANHOLE (BRWA MH-1)  
WATERTIGHT CASTING  
EXTERIOR MANHOLE COATING  
MANHOLE MARKER  
48" DIA., H = 5.81'  
STA: 29+51.76 SANITARY SEWER  
TOP: 906.41  
N: 3646039.66  
E: 11180007.11  
INV IN=900.80 FROM K DEFLECTION: 27.54° L  
INV IN=900.80 FROM T DEFLECTION: 114.00° L  
INV IN=901.00 FROM Y DEFLECTION: 94.39° R  
INV OUT=900.60
- NEW SANITARY MANHOLE (BRWA MH-1)  
48" DIA., H = 5.52'  
STA: 34+13.77 SANITARY SEWER  
TOP: 917.92  
N: 3645705.61  
E: 11180326.26  
INV IN=912.60 FROM K1 DEFLECTION: 86.78° L  
INV OUT=912.40



**SANITARY SEWER EASEMENT WESTCHESTER ST. TO W. HILL DR.**

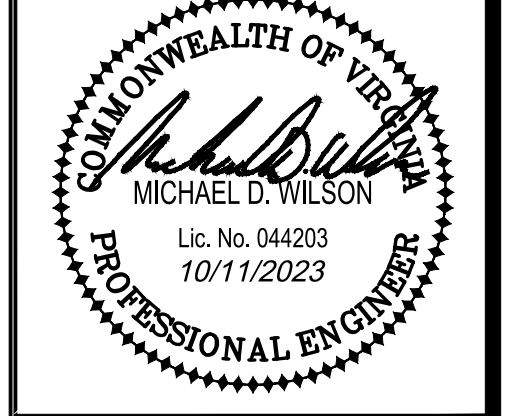
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**SANITARY SEWER EASEMENT (BLUE RIDGE AVE. TO W. HILL DR.)  
FOR  
BRWA WESTERN HILLS SANITARY SEWER REPLACEMENT  
BEDFORD, VIRGINIA**

PROJECT NO.	20230482
FILE NO.	
LAT.	37.332627°
LONG.	-79.540603°
DATE:	10/11/2023
DRAWN BY:	MSF
CHECKED BY:	MDW



**FINAL**

BRWA JOB #  
2023-018

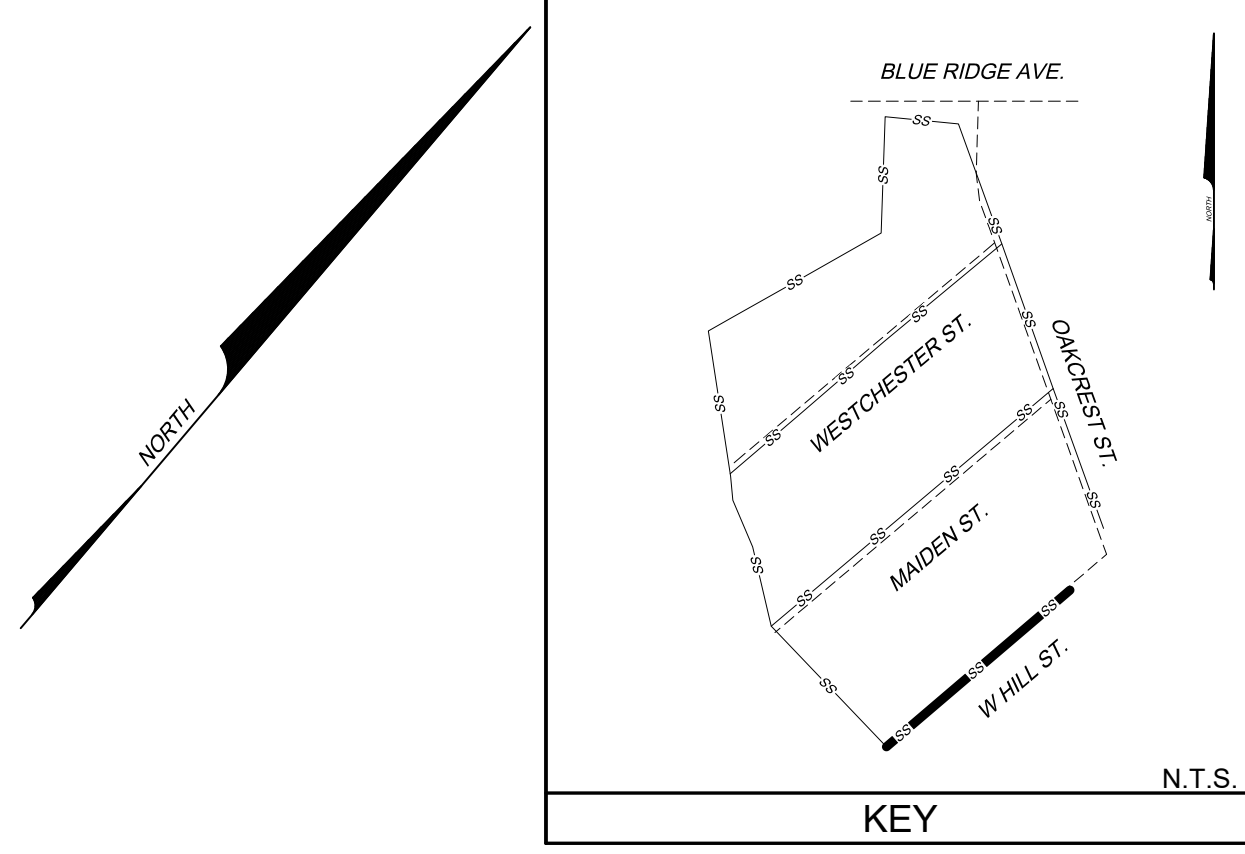
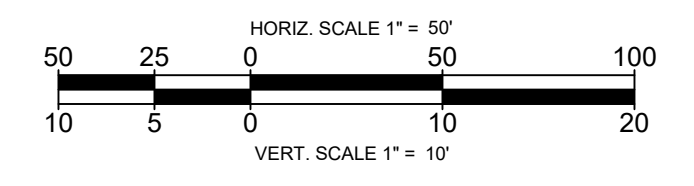
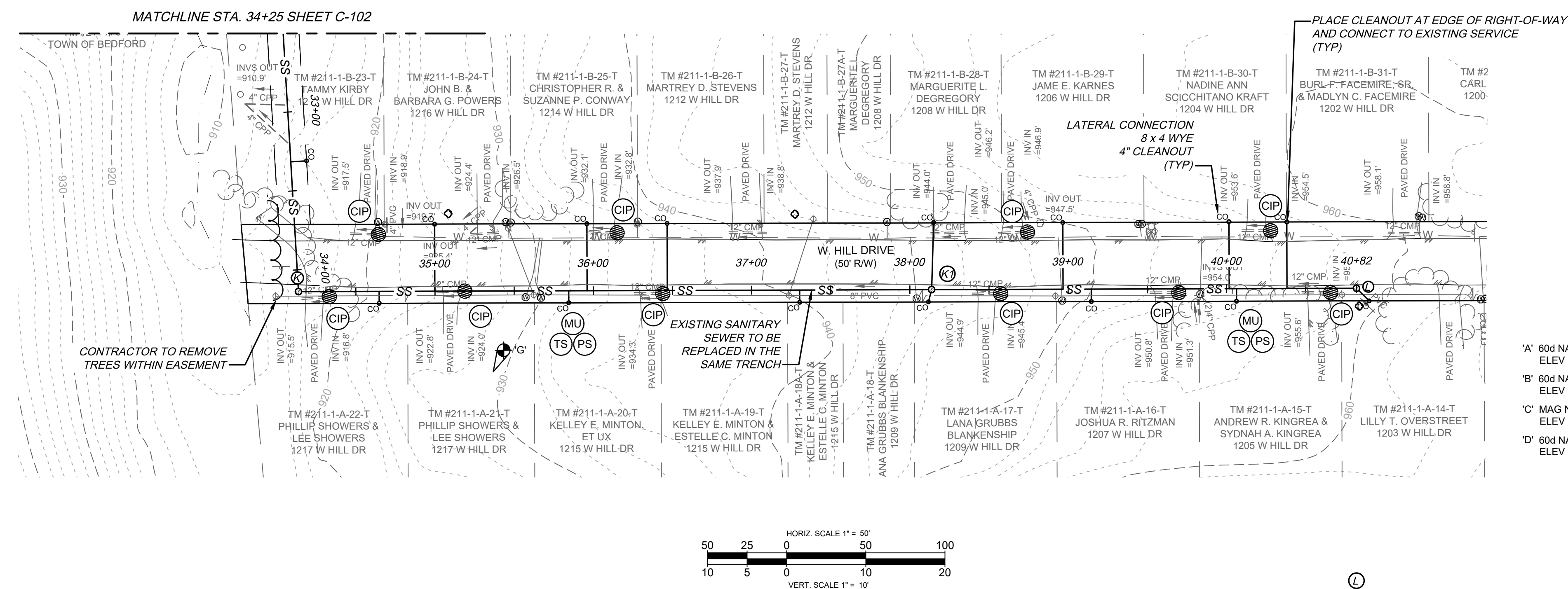
**HURT & PROFFITT**

SHEET NO.	REV.
C-102	

Dec 12, 2023, 2:17pm, Z:\2023\20230482\Engineering\CAD\20230482\_PROPOSED SEWER.dwg



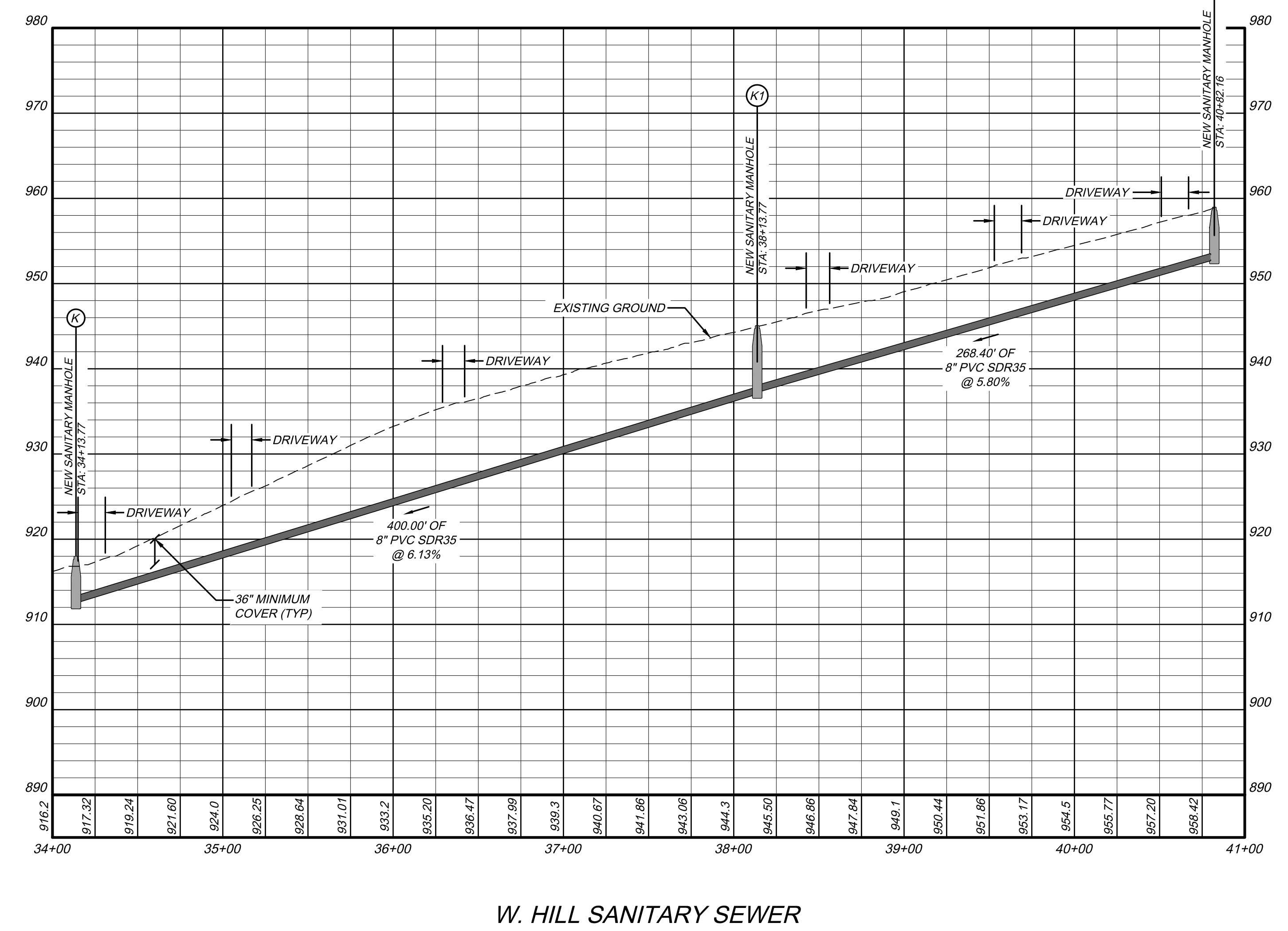
THIS SHEET IS INTENDED TO BE REPRODUCED AT THE SAME SCALE AS THE ORIGINAL SHEET. REPRODUCTION OF THIS SHEET AT A DIFFERENT SCALE THAN INTENDED SHALL VOID THE SCALE SHOWN ON THE SHEET.



- NOTES:**
- EXISTING SANITARY SEWER TO BE REPLACED IN THE SAME TRENCH. NEW TRENCH BOTTOM MAY BE LOWER IN SOME LOCATIONS TO PROVIDE SUFFICIENT COVER OVER PIPE.
  - CONTRACTOR TO PROVIDE BYPASS PUMPING.
  - ALL MANHOLES WILL BE REPLACED.
  - ALL EXISTING ACTIVE SERVICES TO HAVE CLEANOUTS. IN SOME CASES AN EXISTING CLEANOUT WAS NOT FOUND. IN THOSE CASES CONTRACTOR TO INSTALL CLEANOUT ON EXISTING SERVICE WHEN LOCATED DURING CONSTRUCTION.

**BENCHMARKS**

'A' 60d NAIL SET ELEV = 890.57'	'E' 60d NAIL SET ELEV = 940.11'
'B' 60d NAIL SET ELEV = 920.34'	'F' 60d NAIL SET ELEV = 982.20'
'C' MAG NAIL SET ELEV = 913.69'	'G' 60d NAIL SET ELEV = 929.42'
'D' 60d NAIL SET ELEV = 892.15'	



**SANITARY STRUCTURE SCHEDULE**

<b>NEW SANITARY MANHOLE (BRWA MH-1)</b> 48" DIA.; H = 5.52' STA: 34+13.77 SANITARY SEWER TOP: 917.92 N: 3645705.61 E: 11180326.26 INV IN=912.60 FROM K1 DEFLECTION: 86.78° L INV OUT=912.40
<b>NEW SANITARY MANHOLE (BRWA MH-1)</b> 48" DIA.; H = 7.68' STA: 38+13.77 SANITARY SEWER TOP: 945.00 N: 3645965.27 E: 11180630.52 INV IN=937.32 FROM L DEFLECTION: 0.00° INV IN=937.32 FROM N/A DEFLECTION: 88.18° L INV IN=937.32 FROM N/A DEFLECTION: 104.79° R INV OUT=937.12
<b>NEW SANITARY MANHOLE (BRWA MH-1)</b> 48" DIA.; H = 6.00' STA: 40+82.16 SANITARY SEWER TOP: 958.90 N: 3646139.50 E: 11180834.68 INV IN=953.10 FROM N/A DEFLECTION: 45.03° R INV OUT=952.90

**W. HILL SANITARY SEWER**

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**WEST HILL DRIVE SANITARY SEWER**  
FOR  
**BRWA WESTERN HILLS SANITARY SEWER REPLACEMENT**  
**BEDFORD, VIRGINIA**

PROJECT NO.	20230482
FILE NO.	
LAT.	37.332627°
LONG.	-79.540603°
DATE:	10/11/2023
DRAWN BY:	MSF
CHECKED BY:	MDW



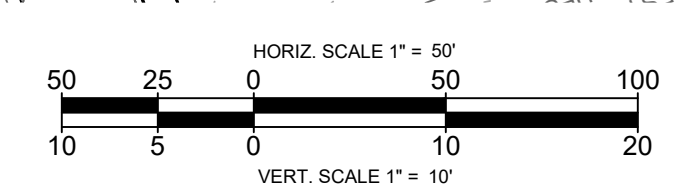
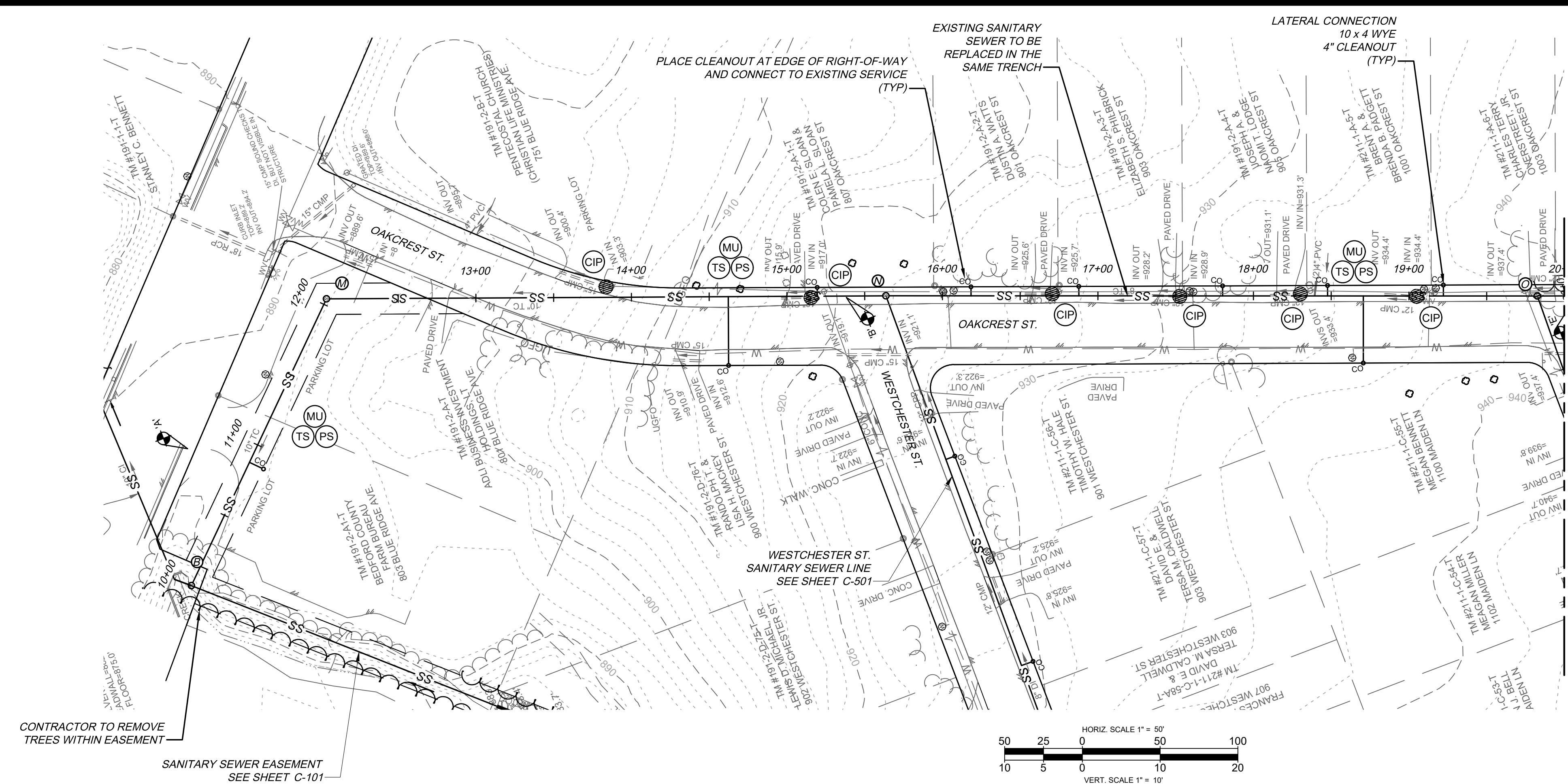
**FINAL**

BRWA JOB #  
2023-018

**HURT & PROFFITT**

SHEET NO.	REV.
C-201	

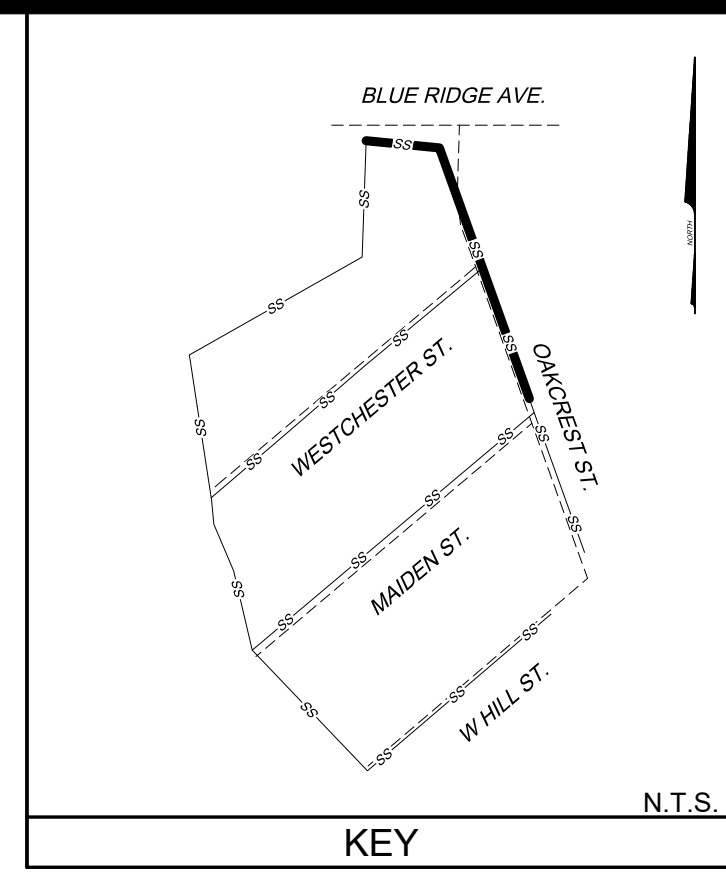
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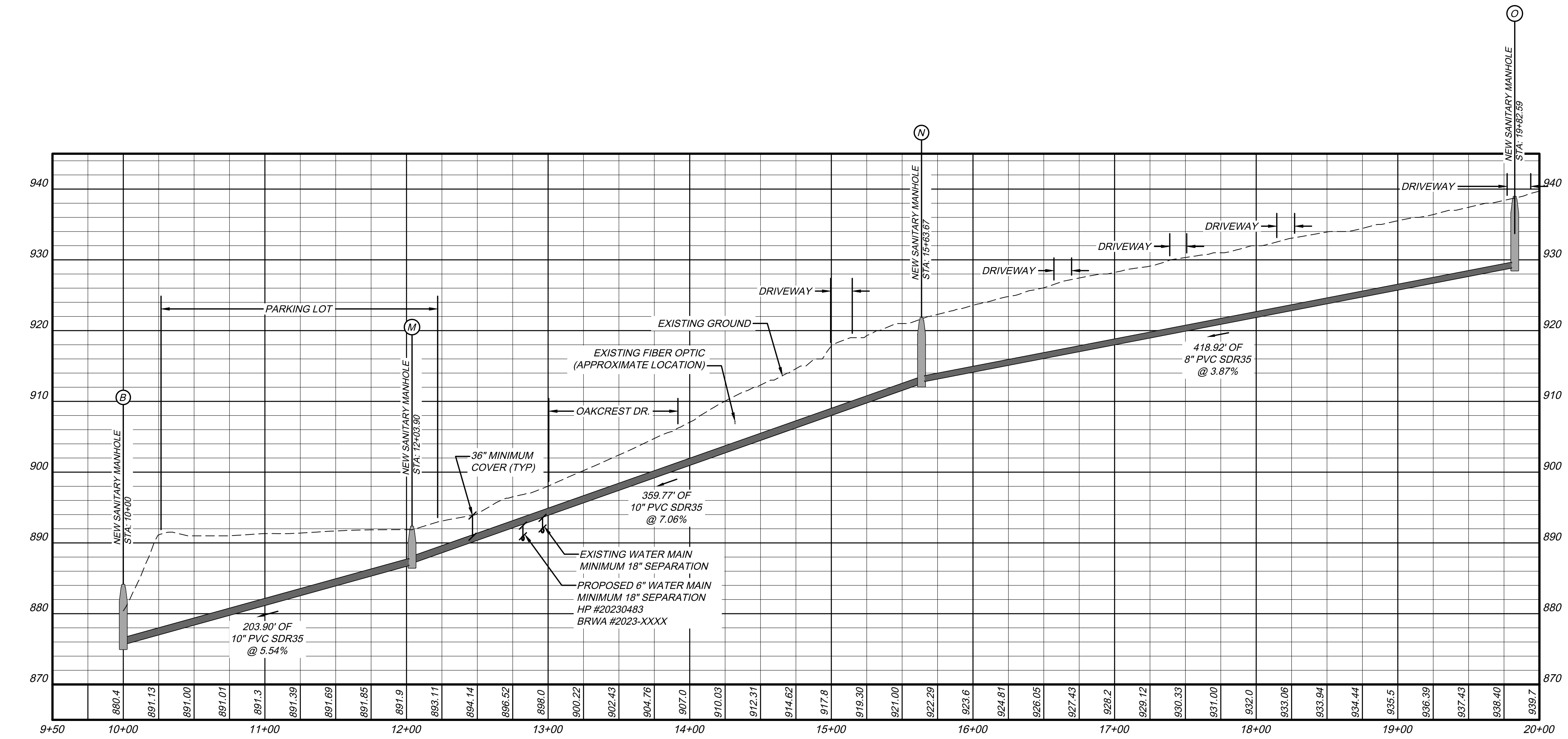
MATCHLINE SHEET C-302

**BENCHMARKS**

A' 60d NAIL SET ELEV = 890.57'	E' 60d NAIL SET ELEV = 940.11'
B' 60d NAIL SET ELEV = 920.34'	F' 60d NAIL SET ELEV = 962.20'
C' MAG NAIL SET ELEV = 913.69'	G' 60d NAIL SET ELEV = 929.42'
D' 60d NAIL SET ELEV = 892.15'	



- NOTES:**
- EXISTING SANITARY SEWER TO BE REPLACED IN THE SAME TRENCH. NEW TRENCH BOTTOM MAY BE LOWER IN SOME LOCATIONS TO PROVIDE SUFFICIENT COVER OVER PIPE.
  - CONTRACTOR TO PROVIDE BYPASS PUMPING.
  - ALL MANHOLES WILL BE REPLACED.
  - ALL EXISTING ACTIVE SERVICES TO HAVE CLEANOUTS. IN SOME CASES AN EXISTING CLEANOUT WAS NOT FOUND. IN THOSE CASES CONTRACTOR TO INSTALL CLEANOUT ON EXISTING SERVICE WHEN LOCATED DURING CONSTRUCTION.



**SANITARY STRUCTURE SCHEDULE**

NEW SANITARY MANHOLE (BRWA MH-1) 48" DIA.; H = 8.59'

NEW SANITARY MANHOLE (BRWA MH-1) 48" DIA.; H = 5.30'

NEW SANITARY MANHOLE (BRWA MH-1) 48" DIA.; H = 9.19'

NEW SANITARY MANHOLE (BRWA MH-1) 48" DIA.; H = 9.91'

OAKCREST SANITARY SEWER

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OAKCREST STREET (BLUE RIDGE AVE. TO WESTCHESTER ST.)  
FOR  
BRWA WESTERN HILLS SANITARY SEWER REPLACEMENT  
BEDFORD, VIRGINIA

PROJECT NO.	20230482
FILE NO.	
LAT.	37.332627°
LONG.	-79.540603°
DATE:	10/11/2023
DRAWN BY:	MSF
CHECKED BY:	MDW



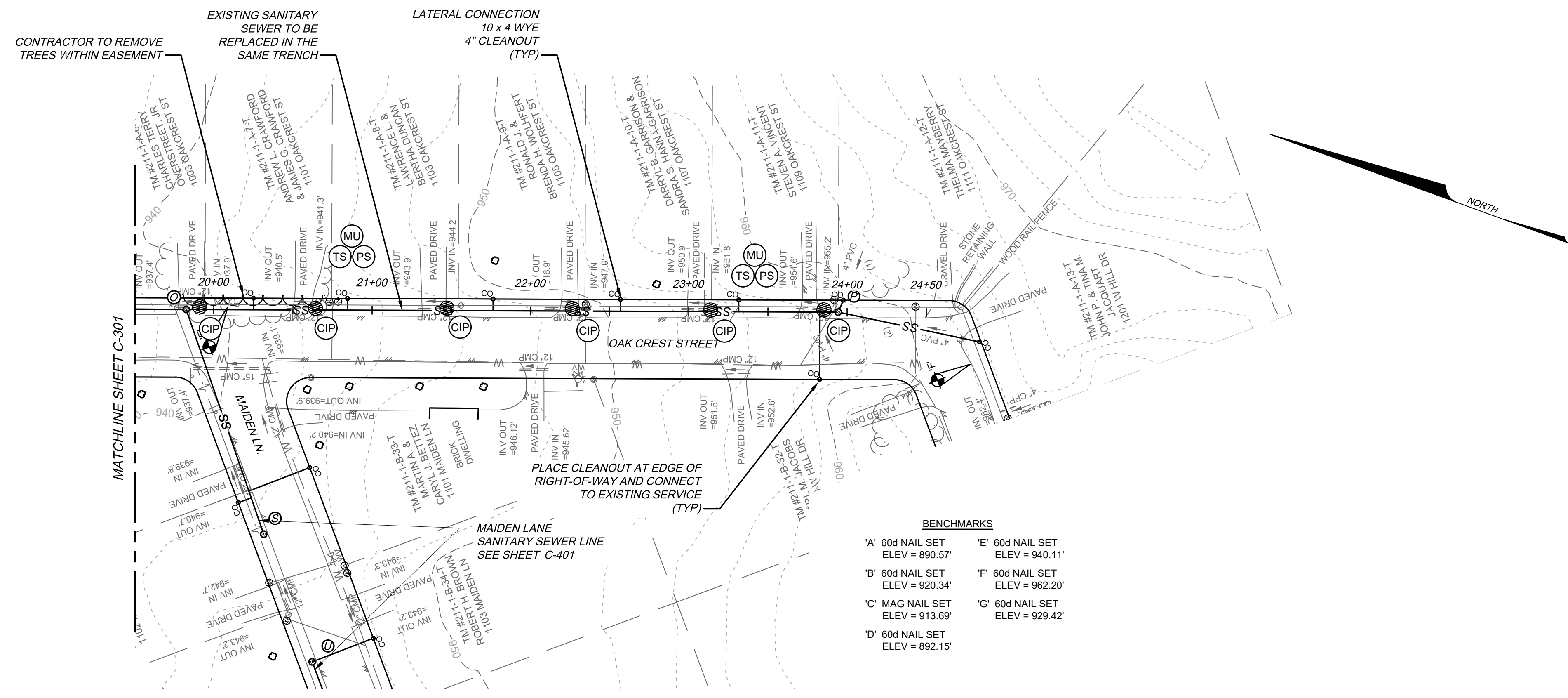
**FINAL**

BRWA JOB #  
2023-018

**HURT & PROFFIT**

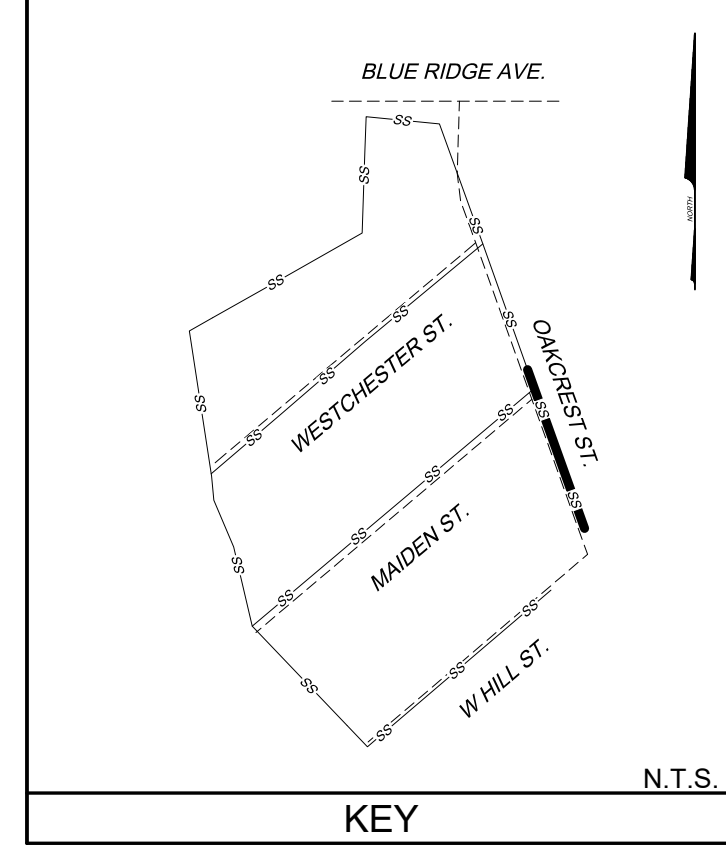
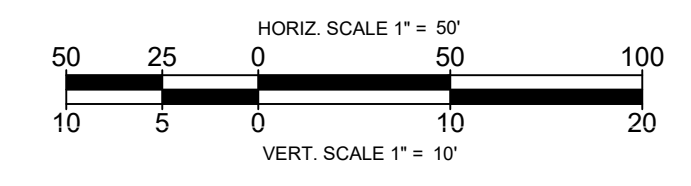
SHEET NO.	REV.
C-301	---

THIS SHEET IS INTENDED TO BE REPRODUCED AT 100% REPRODUCTION OF THIS SHEET AT A DIFFERENT SIZE THAN INTENDED SHALL VOID THE SCALE SHOWN ON THE SHEET.

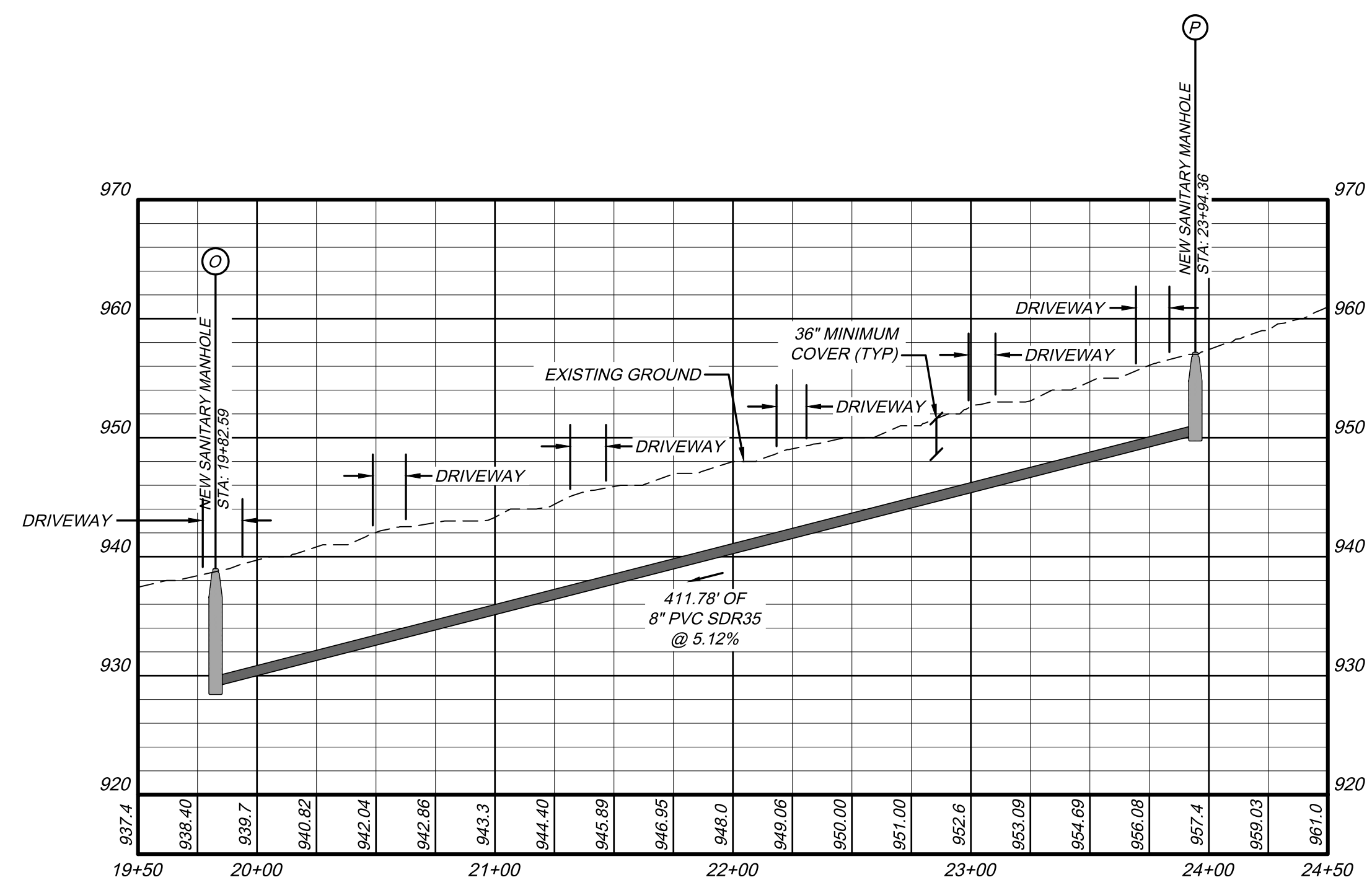


**BENCHMARKS**

'A' 60d NAIL SET ELEV = 890.57	'E' 60d NAIL SET ELEV = 940.11
'B' 60d NAIL SET ELEV = 920.34	'F' 60d NAIL SET ELEV = 962.20
'C' MAG NAIL SET ELEV = 913.69	'G' 60d NAIL SET ELEV = 929.42
'D' 60d NAIL SET ELEV = 892.15	



- NOTES:**
- EXISTING SANITARY SEWER TO BE REPLACED IN THE SAME TRENCH. NEW TRENCH BOTTOM MAY BE LOWER IN SOME LOCATIONS TO PROVIDE SUFFICIENT COVER OVER PIPE.
  - CONTRACTOR TO PROVIDE BYPASS PUMPING.
  - ALL MANHOLES WILL BE REPLACED.
  - ALL EXISTING ACTIVE SERVICES TO HAVE CLEANOUTS. IN SOME CASES AN EXISTING CLEANOUT WAS NOT FOUND. IN THOSE CASES CONTRACTOR TO INSTALL CLEANOUT ON EXISTING SERVICE WHEN LOCATED DURING CONSTRUCTION.



**SANITARY STRUCTURE SCHEDULE**

**NEW SANITARY MANHOLE (BRWA MH-1)**  
 48" DIA.; H = 9.91'  
 STA: 19+82.59 OAKCREST  
 TOP: 938.91  
 N: 3646698.19  
 E: 11180788.31  
 INV IN=929.20 FROM P DEFLECTION: 0.20° R  
 INV IN=929.20 FROM S DEFLECTION: 70.52° R  
 INV OUT=929.00

**NEW SANITARY MANHOLE (BRWA MH-1)**  
 48" DIA.; H = 6.80'  
 STA: 23+94.36 OAKCREST  
 TOP: 957.10  
 N: 3646310.68  
 E: 11180927.59  
 INV IN=950.50 FROM N/A DEFLECTION: 11.64° R  
 INV OUT=950.30

**OAKCREST SANITARY SEWER SOUTH**

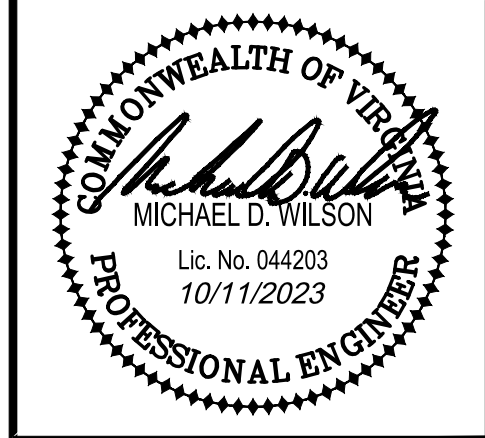
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**OAKCREST STREET (WESTCHESTER ST. TO W. HILL DR.)  
 FOR  
 BRWA WESTERN HILLS SANITARY SEWER REPLACEMENT  
 BEDFORD, VIRGINIA**

PROJECT NO.	20230482
FILE NO.	
LAT.	37.332627°
LONG.	-79.540603°
DATE:	10/11/2023
DRAWN BY:	MSF
CHECKED BY:	MDW



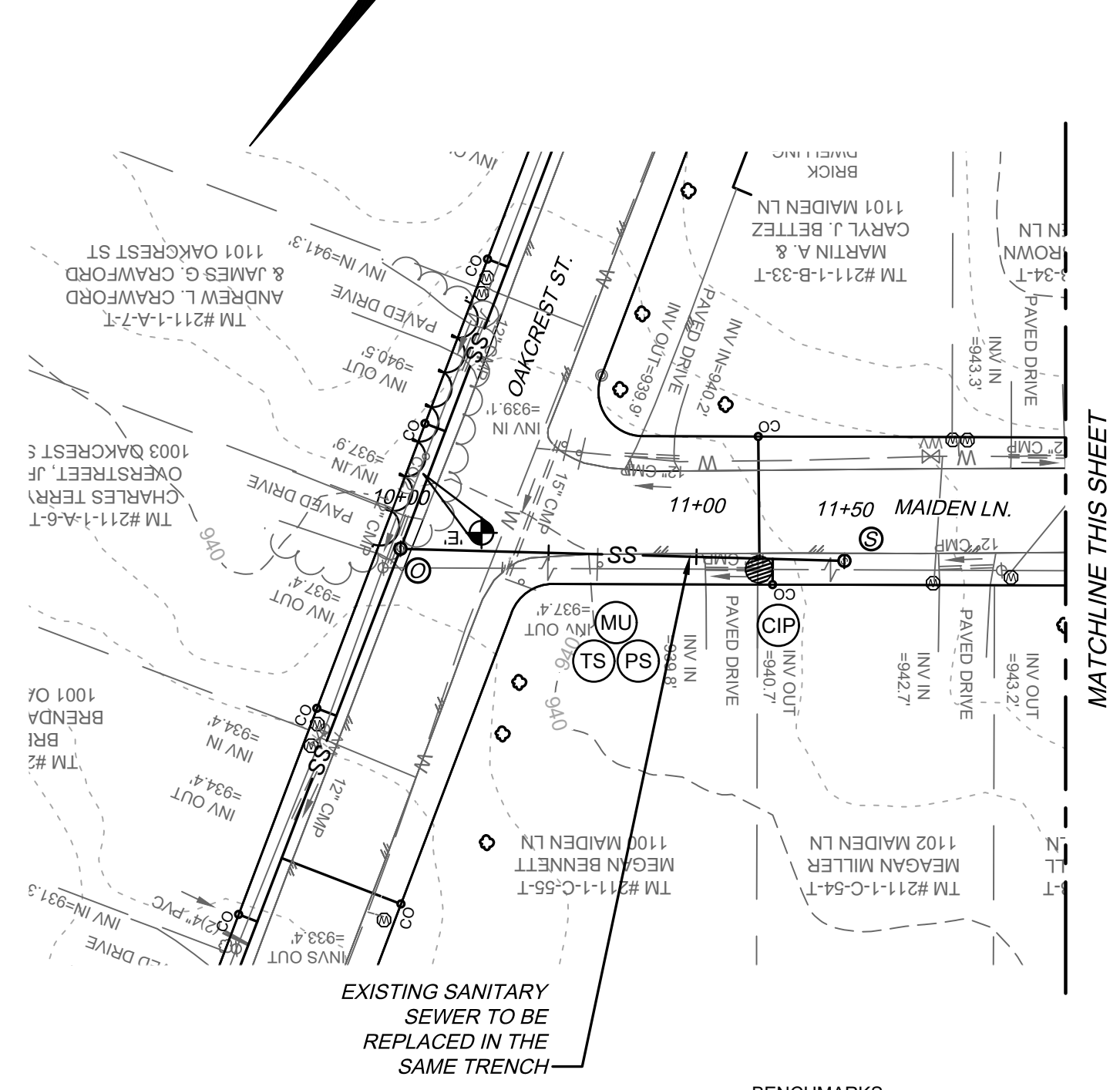
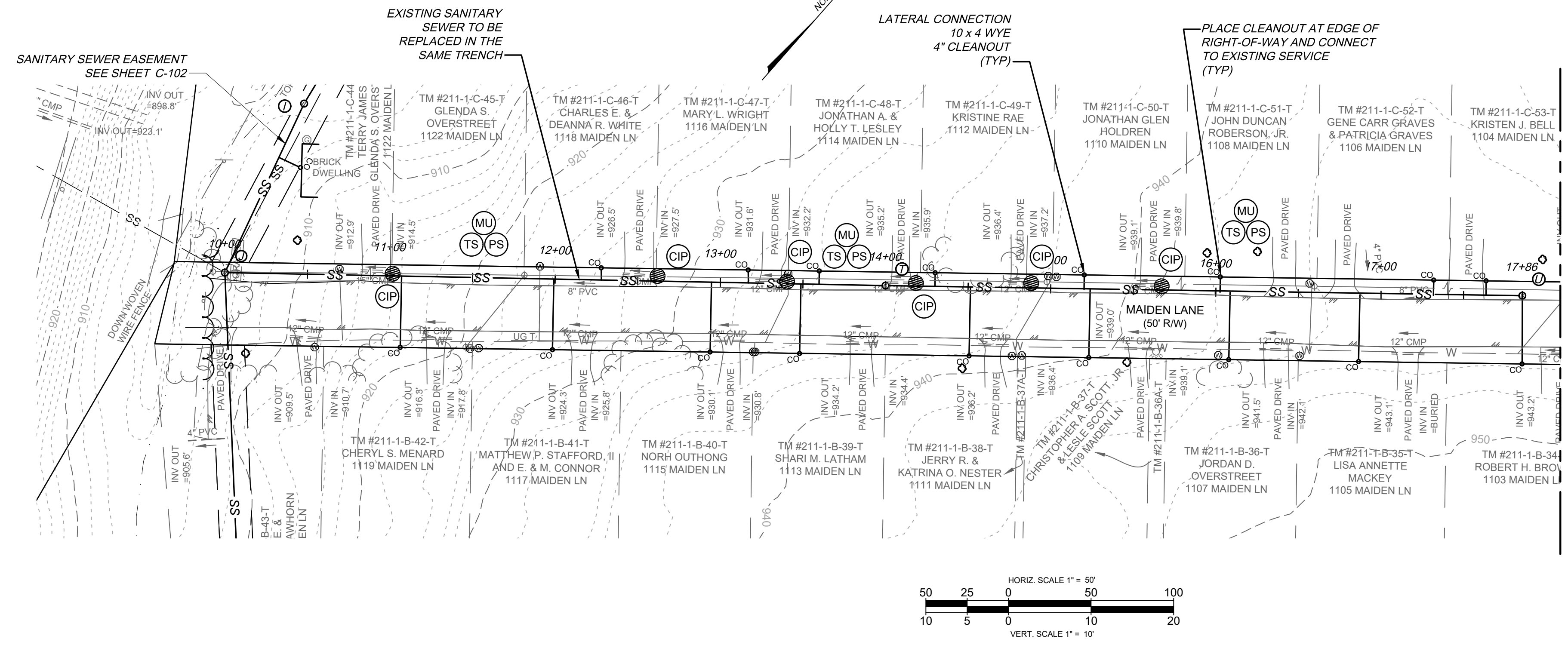
**FINAL**

BRWA JOB #  
 2023-018

**HURT & PROFFITT**

SHEET NO.	REV.
C-302	---

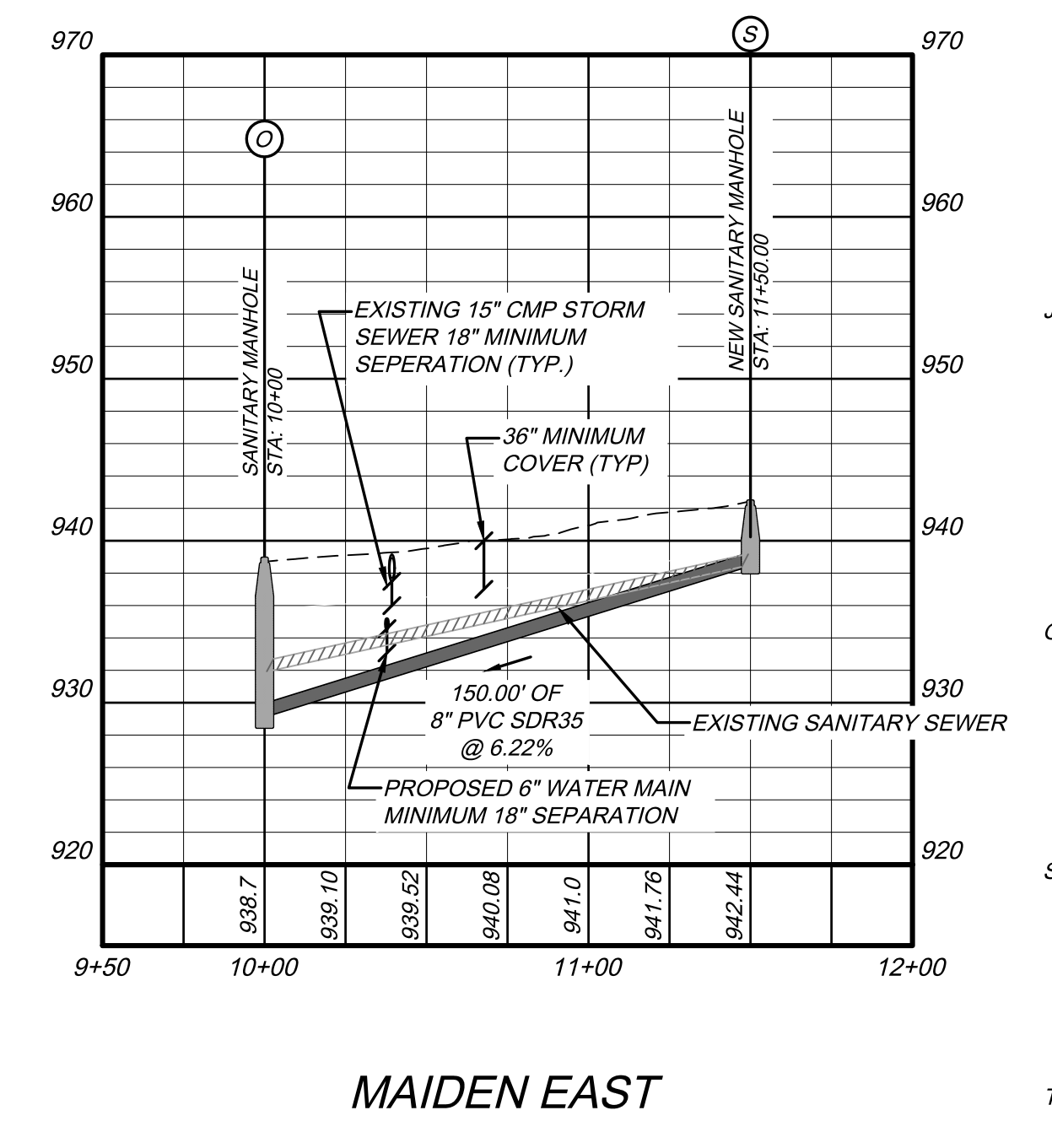
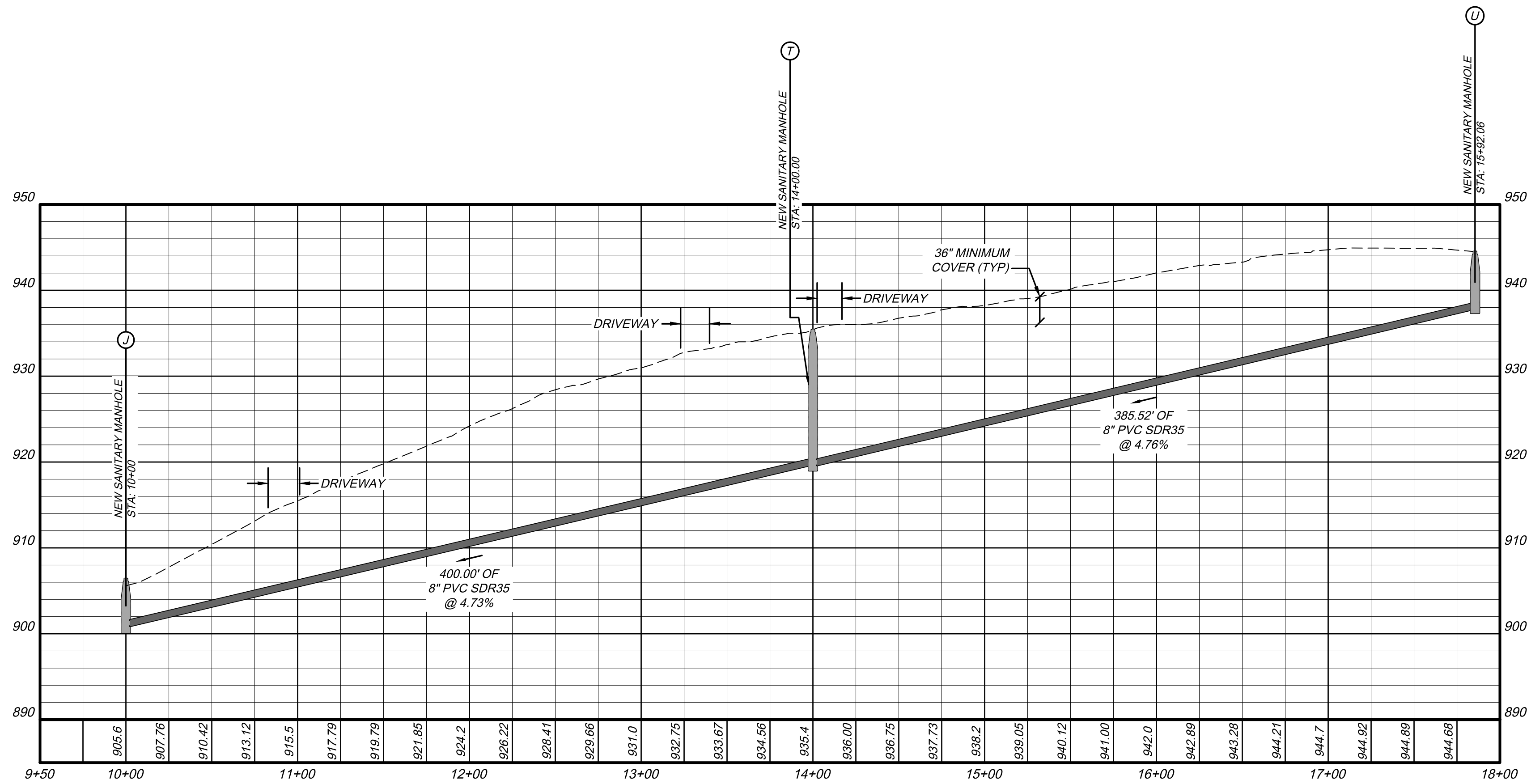
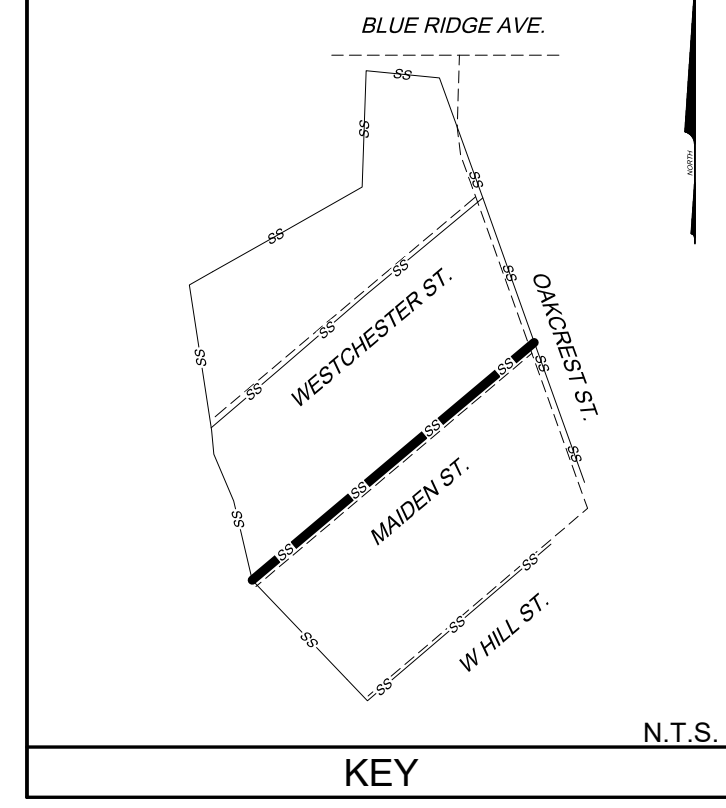
THIS SHEET IS INTENDED TO BE REPRODUCED AT A DIFFERENT SIZE THAN INTENDED SHALL VOID THE SCALE SHOWN ON THE SHEET.



**BENCHMARKS**

'A' 60d NAIL SET ELEV = 890.57'	'E' 60d NAIL SET ELEV = 940.11'
'B' 60d NAIL SET ELEV = 920.34'	'F' 60d NAIL SET ELEV = 962.20'
'C' MAG NAIL SET ELEV = 913.69'	'G' 60d NAIL SET ELEV = 929.42'
'D' 60d NAIL SET ELEV = 892.15'	

- NOTES:**
- EXISTING SANITARY SEWER TO BE REPLACED IN THE SAME TRENCH. NEW TRENCH BOTTOM MAY BE LOWER IN SOME LOCATIONS TO PROVIDE SUFFICIENT COVER OVER PIPE.
  - CONTRACTOR TO PROVIDE BYPASS PUMPING.
  - ALL MANHOLES WILL BE REPLACED.
  - ALL EXISTING ACTIVE SERVICES TO HAVE CLEANOUTS. IN SOME CASES AN EXISTING CLEANOUT WAS NOT FOUND. IN THOSE CASES CONTRACTOR TO INSTALL CLEANOUT ON EXISTING SERVICE WHEN LOCATED DURING CONSTRUCTION.



**SANITARY STRUCTURE SCHEDULE**

- NEW SANITARY MANHOLE (BRWA MH-1)  
WATERTIGHT CASTING  
EXTERIOR MANHOLE COATING  
MANHOLE MARKER  
48" DIA.; H = 5.81'  
STA: 29+51.76 SANITARY SEWER  
TOP: 906.41  
N: 3646039.66  
E: 11180007.11  
INV IN=900.80 FROM K DEFLECTION: 27.54" L  
INV IN=900.80 FROM T DEFLECTION: 114.00" L  
INV IN=901.00 FROM Y DEFLECTION: 94.39" R  
INV OUT=900.60
- NEW SANITARY MANHOLE (BRWA MH-1)  
48" DIA.; H = 9.91'  
STA: 19+82.59 OAKCREST  
TOP: 938.91  
N: 3646698.19  
E: 11180738.31  
INV IN=929.20 FROM P DEFLECTION: 0.20" R  
INV IN=929.20 FROM S DEFLECTION: 70.52" R  
INV OUT=929.00
- NEW SANITARY MANHOLE (BRWA MH-1)  
48" DIA.; H = 3.91'  
STA: 11+50.00 MAIDEN EAST  
TOP: 942.44  
N: 3646803.69  
E: 11180671.82  
INV OUT=938.53
- NEW SANITARY MANHOLE (BRWA MH-1)  
48" DIA.; H = 15.88'  
STA: 14+00.00 MAIDEN WEST  
TOP: 935.40  
N: 3646297.59  
E: 11180312.84  
INV IN=919.52 FROM U DEFLECTION: 0.22" R  
INV OUT=919.72
- NEW SANITARY MANHOLE (BRWA MH-1)  
48" DIA.; H = 6.64'  
STA: 15+92.06 SANITARY SEWER  
TOP: 944.50  
N: 3646547.33  
E: 11180606.54  
INV OUT=937.86

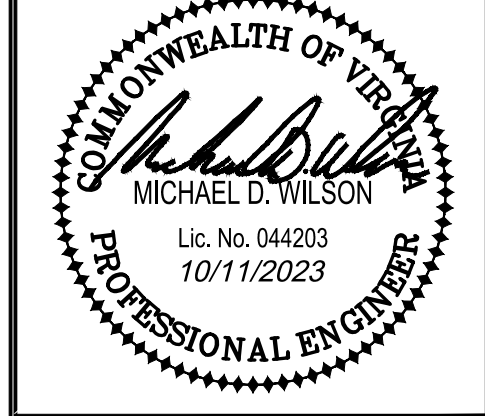
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**MAIDEN LANE  
FOR  
BRWA WESTERN HILLS SANITARY SEWER REPLACEMENT  
BEDFORD, VIRGINIA**

PROJECT NO.	20230482
FILE NO.	
LAT.	37.332627°
LONG.	-79.540603°
DATE:	10/11/2023
DRAWN BY:	MSF
CHECKED BY:	MDW



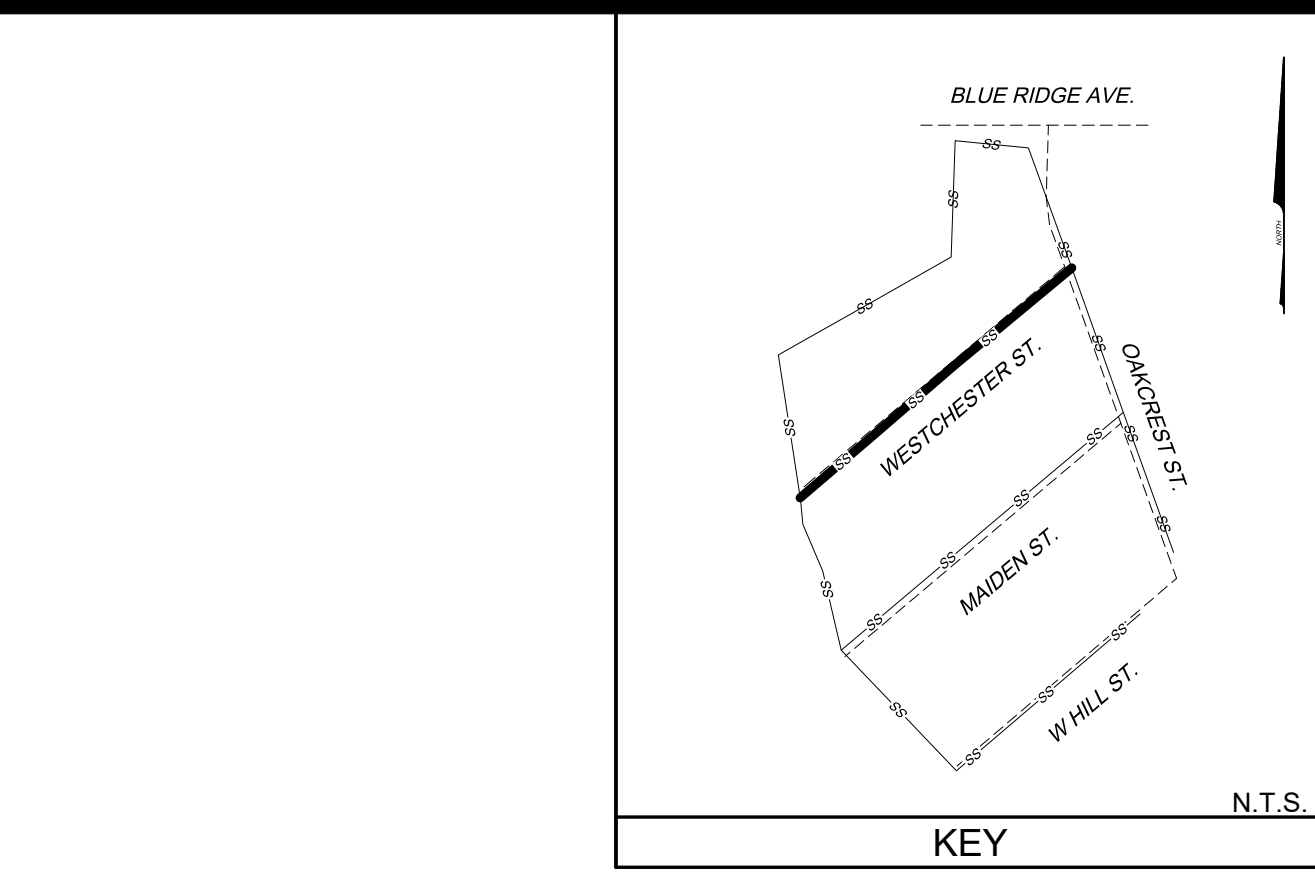
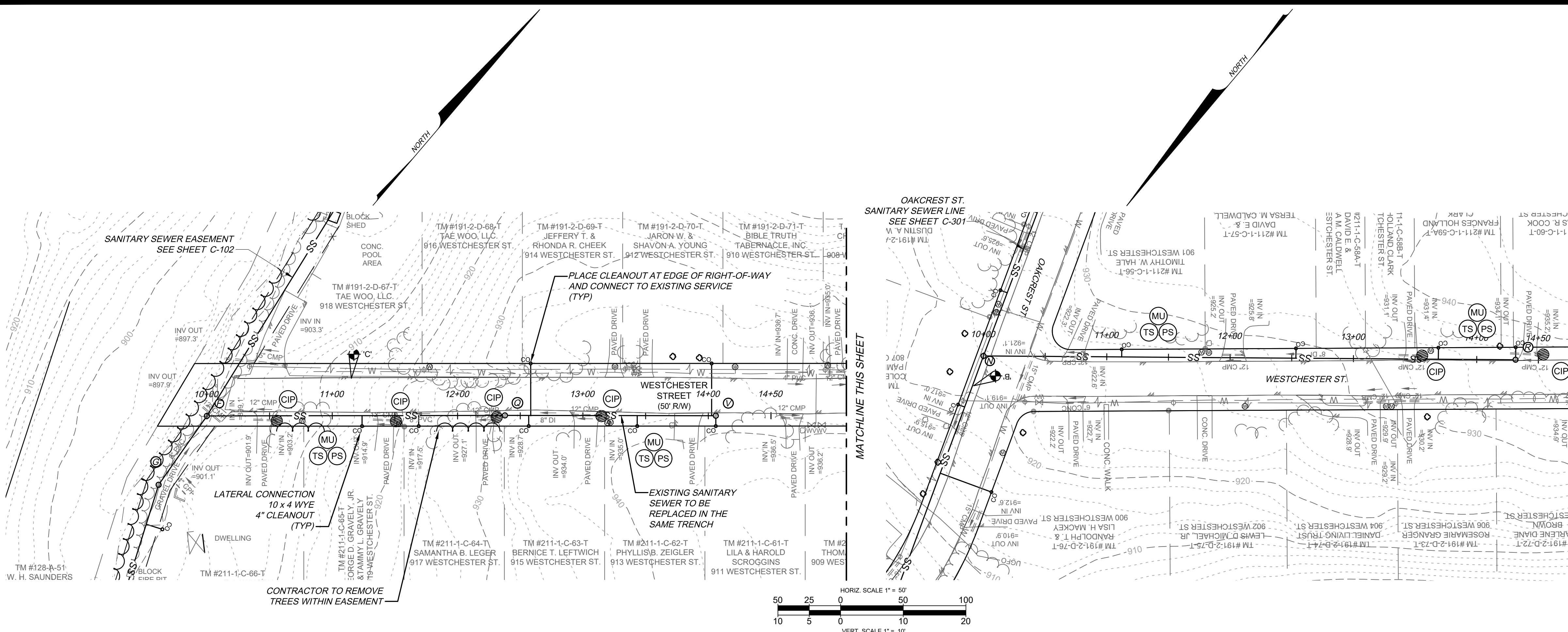
**FINAL**

BRWA JOB #  
2023-018

**HURT & PROFFITT**

SHEET NO.	REV.
C-401	

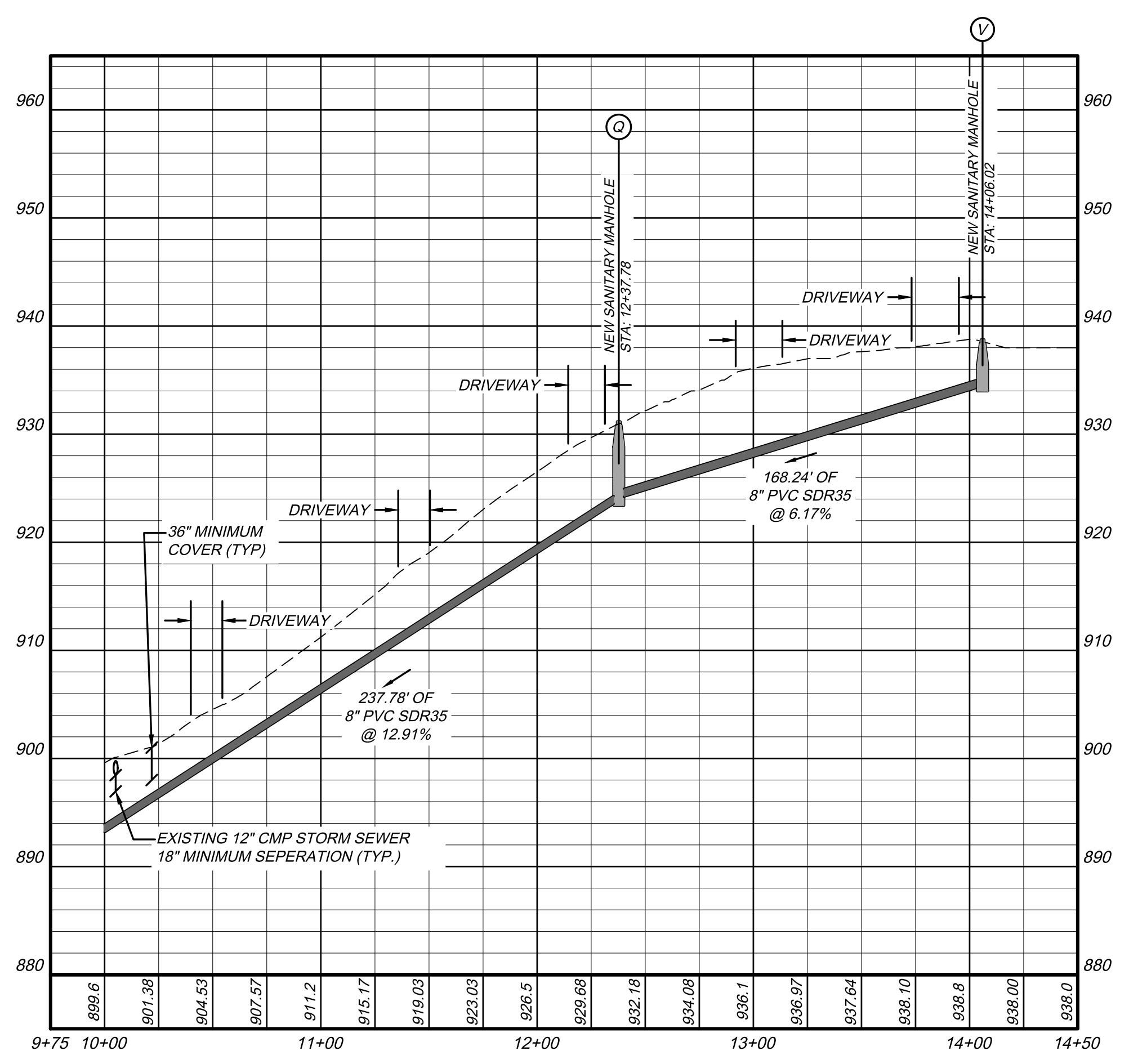
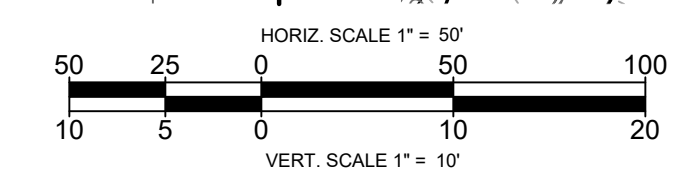
THIS SHEET IS INTENDED TO BE REPRODUCED AT 1/4" = 1' SCALE. REPRODUCTION OF THIS SHEET AT A DIFFERENT SCALE THAN INTENDED SHALL VOID THE SCALE SHOWN ON THE SHEET.



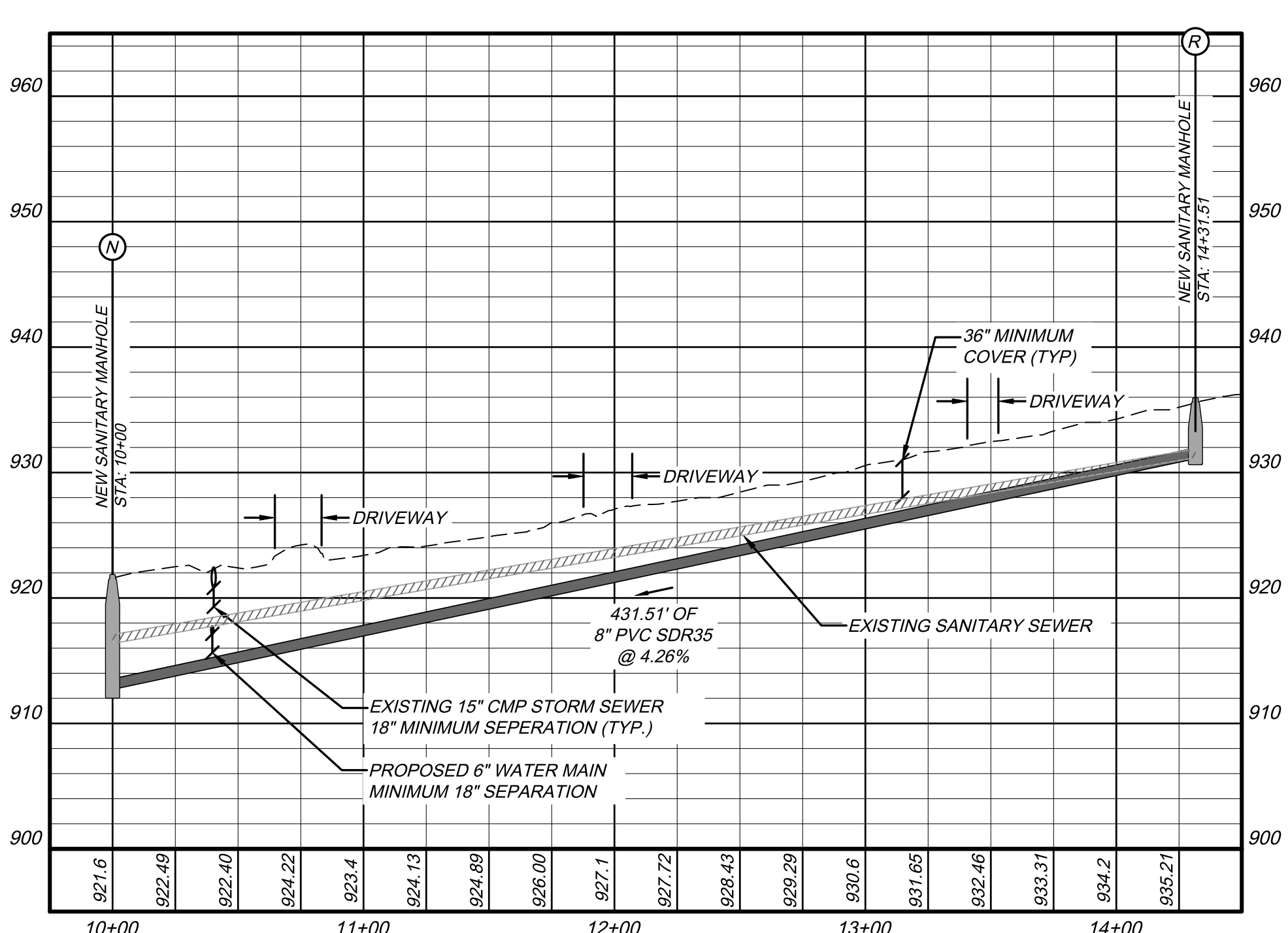
- NOTES:**
- EXISTING SANITARY SEWER TO BE REPLACED IN THE SAME TRENCH. NEW TRENCH BOTTOM MAY BE LOWER IN SOME LOCATIONS TO PROVIDE SUFFICIENT COVER OVER PIPE.
  - CONTRACTOR TO PROVIDE BYPASS PUMPING.
  - ALL MANHOLES WILL BE REPLACED.
  - ALL EXISTING ACTIVE SERVICES TO HAVE CLEANOUTS. IN SOME CASES AN EXISTING CLEANOUT WAS NOT FOUND. IN THOSE CASES CONTRACTOR TO INSTALL CLEANOUT ON EXISTING SERVICE WHEN LOCATED DURING CONSTRUCTION.

**BENCHMARKS**

A' 60d NAIL SET ELEV = 890.57	E' 60d NAIL SET ELEV = 940.11'
B' 60d NAIL SET ELEV = 920.34'	F' 60d NAIL SET ELEV = 962.20'
C' MAG NAIL SET ELEV = 913.69'	G' 60d NAIL SET ELEV = 929.42'
D' 60d NAIL SET ELEV = 892.15'	



WESTCHESTER WEST



WESTCHESTER EAST

**SANITARY STRUCTURE SCHEDULE**

NEW SANITARY MANHOLE (BRWA MH-1)  
WATERTIGHT CASTING  
EXTERIOR MANHOLE COATING  
MANHOLE MARKER  
48" DIA.; H = 7.59'  
STA: 25+18.43 SANITARY SEWER  
TOP: 900.59  
N: 3646455.27  
E: 11179894.40  
INV IN=893.20 FROM G DEFLECTION: 3.30° R  
INV IN=893.20 FROM Q DEFLECTION: 121.81° L  
INV OUT=893.00

NEW SANITARY MANHOLE (BRWA MH-1)  
48" DIA.; H = 9.19'  
STA: 15+63.67 OAKCREST  
TOP: 921.79  
N: 3647092.90  
E: 11180647.98  
INV IN=912.80 FROM O DEFLECTION: 0.33° R  
INV IN=912.80 FROM R DEFLECTION: 70.18° R  
INV OUT=912.60

NEW SANITARY MANHOLE (BRWA MH-1)  
48" DIA.; H = 7.27'  
STA: 12+37.78 WESTCHESTER WEST  
TOP: 931.17  
N: 3646609.77  
E: 11180075.15  
INV IN=924.10 FROM V DEFLECTION: 0.18° R  
INV OUT=923.90

NEW SANITARY MANHOLE (BRWA MH-1)  
48" DIA.; H = 4.68'  
STA: 14+31.51 WESTCHESTER EAST  
TOP: 935.88  
N: 3646817.17  
E: 11180316.05  
INV IN=931.20

NEW SANITARY MANHOLE (BRWA MH-1)  
48" DIA.; H = 4.27'  
STA: 14+06.02 WESTCHESTER WEST  
TOP: 938.75  
N: 3646718.69  
E: 11180203.37  
INV OUT=934.48

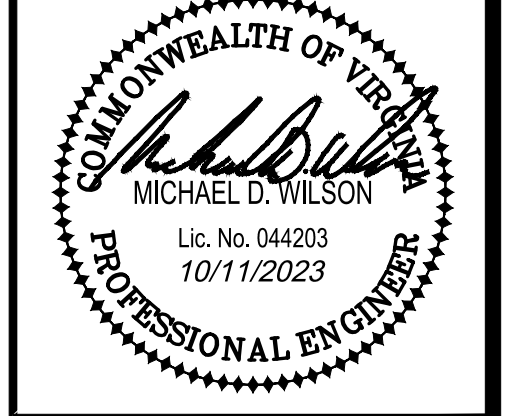
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WESTCHESTER STREET  
FOR  
BRWA WESTERN HILLS SANITARY SEWER REPLACEMENT  
BEDFORD, VIRGINIA

PROJECT NO.	20230482
FILE NO.	
LAT.	37.332627°
LONG.	-79.540603°
DATE:	10/11/2023
DRAWN BY:	MSF
CHECKED BY:	MDW



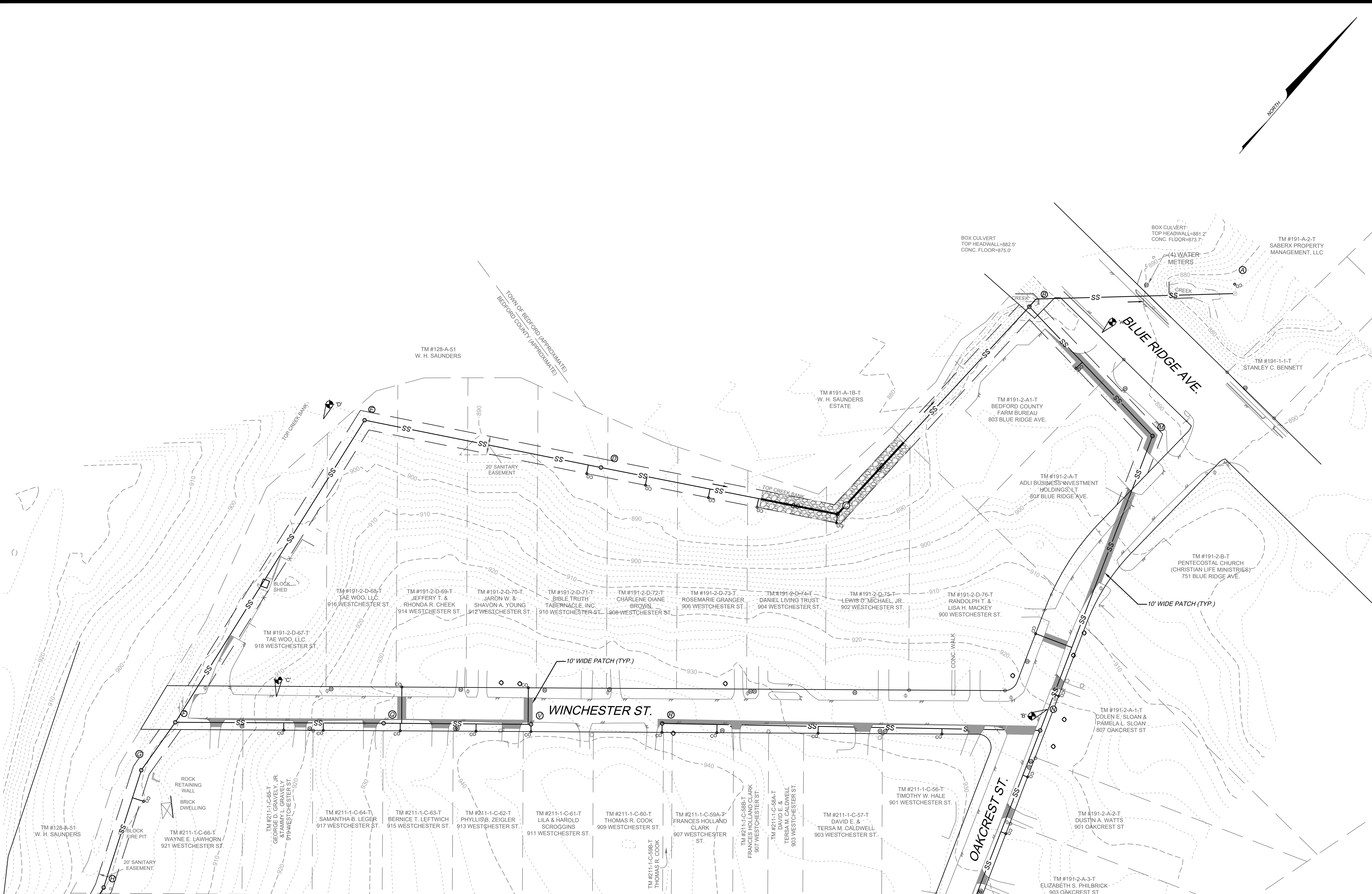
**FINAL**

BRWA JOB #  
2023-018

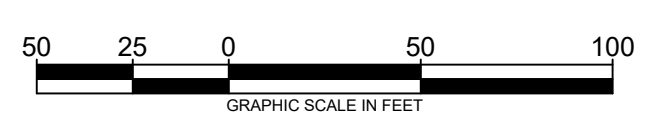
**HURT & PROFFITT**

SHEET NO.	REV.
C-501	---

THIS SHEET IS INTENDED TO BE REPRODUCED AT 1/4"=1'-0" SCALE. REPRODUCTION OF THIS SHEET AT A DIFFERENT SCALE THAN INTENDED SHALL VOID THE SCALE SHOWN ON THE SHEET.



MATCHLINE SHEET C-202



**LEGEND**

ASPHALT TRENCH PATCH

**NOTE**  
1. ASPHALT TRENCH PATCH SHALL BE 3" OF VDOT TYPE BM-25.0A (110/SY/IN) WITH 6" OF VDOT #21A OR #21B BASE STONE.

**HURT & PROFFITT**  
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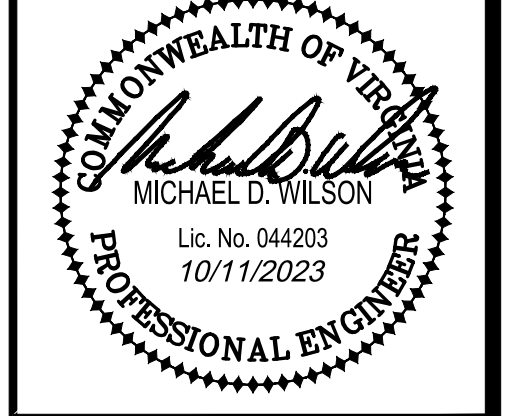
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**PAVEMENT RESTORATION PLAN**  
FOR  
**BRWA WESTERN HILLS SANITARY SEWER REPLACEMENT**  
BEDFORD, VIRGINIA

PROJECT NO.	20230482
FILE NO.	
LAT.	37.332627°
LONG.	-79.540603°
DATE:	10/11/2023
DRAWN BY:	MSF
CHECKED BY:	MDW



**FINAL**

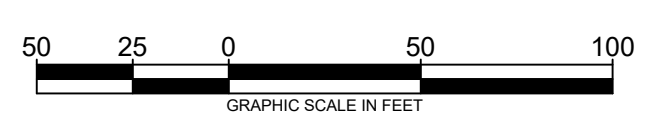
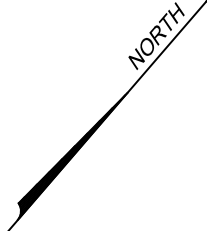
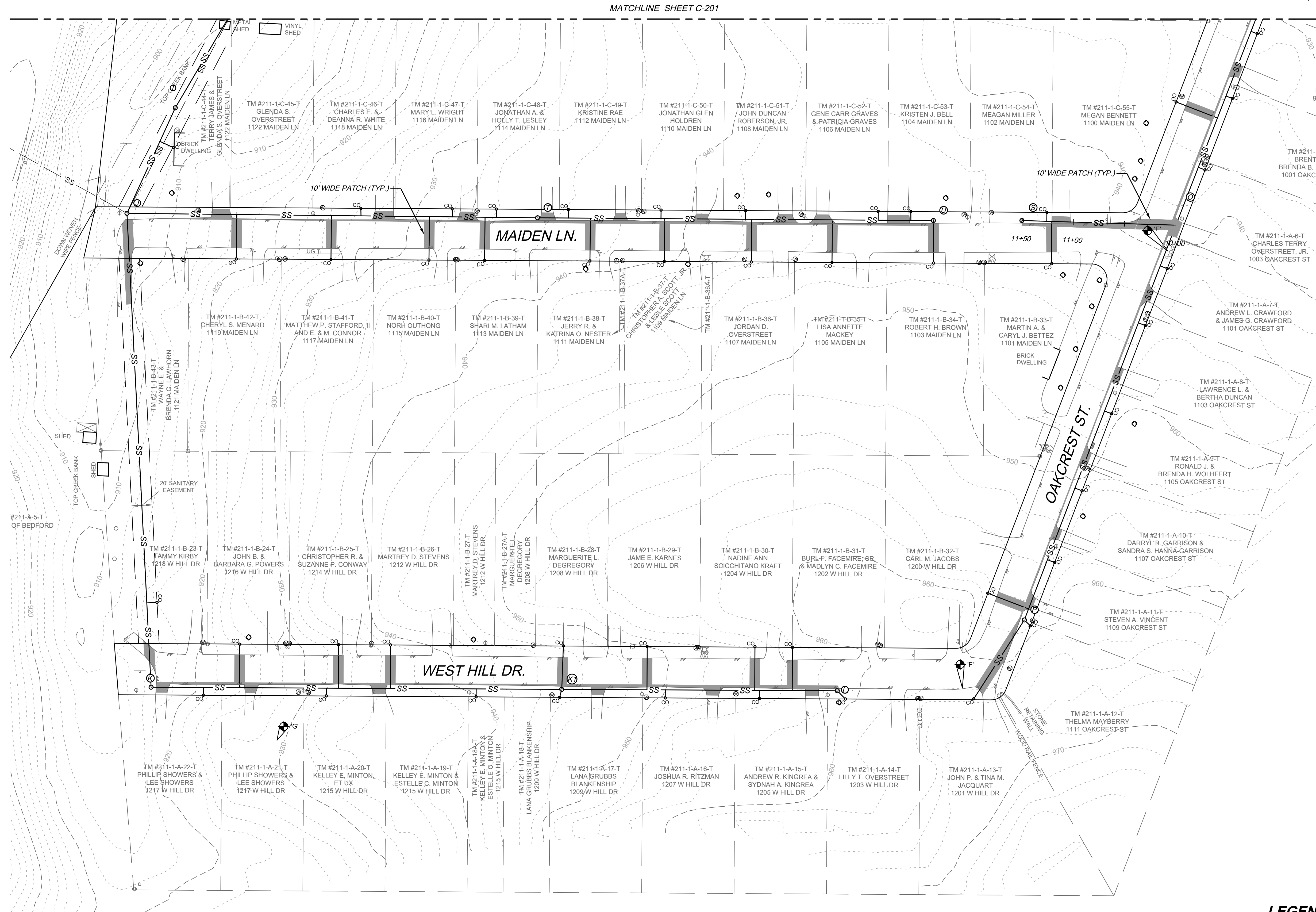
BRWA JOB #  
2023-018

**HURT & PROFFITT**

SHEET NO.	REV.
C-601	

THIS SHEET IS INTENDED TO BE REPRODUCED AT 1/4" = 1'-0". REPRODUCTION OF THIS SHEET AT A DIFFERENT SIZE THAN INTENDED SHALL VOID THE SCALE SHOWN ON THE SHEET.

Dec 12, 2023, 2:18pm, Z:\2023\20230482\Engineering\CAD\20482\_PROPOSED SEWER.dwg



**LEGEND**

ASPHALT TRENCH PATCH

**NOTE**  
 1. ASPHALT TRENCH PATCH SHALL BE 3" OF VDOT TYPE BM-25.0A (110SY/IN) WITH 6" OF VDOT #21A OR #21B BASE STONE.

**HURT & PROFFITT**  
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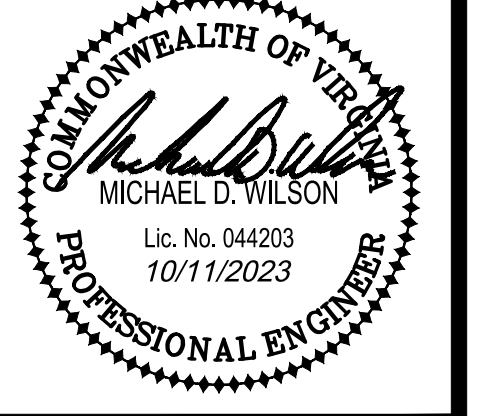
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**PAVEMENT RESTORATION PLAN**  
 FOR  
**BRWA WESTERN HILLS SANITARY SEWER REPLACEMENT**  
 BEDFORD, VIRGINIA

PROJECT NO.	20230482
FILE NO.	
LAT.	37.332627°
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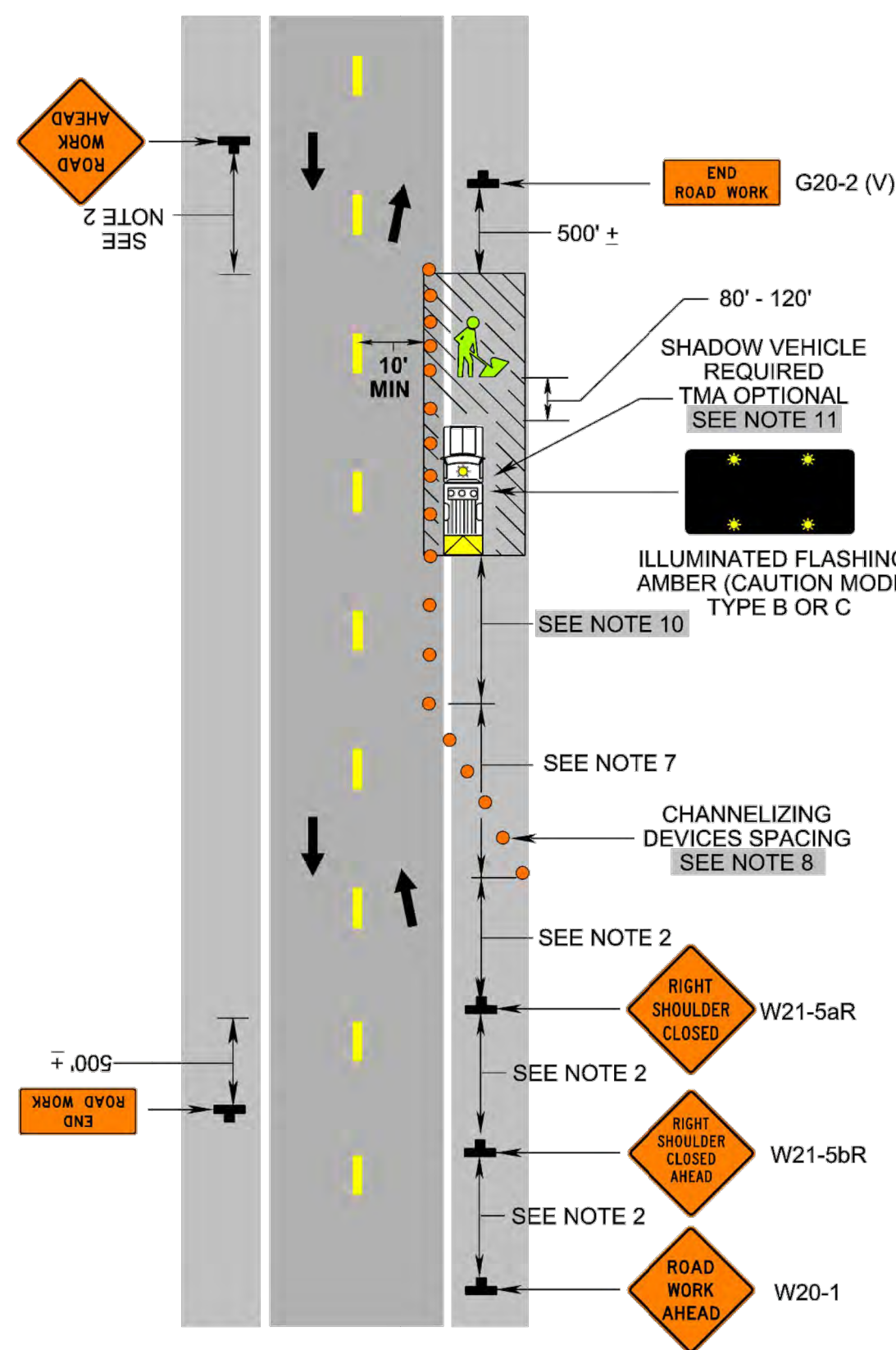
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BRWA JOB #  
 2023-018

**HURT & PROFFITT**

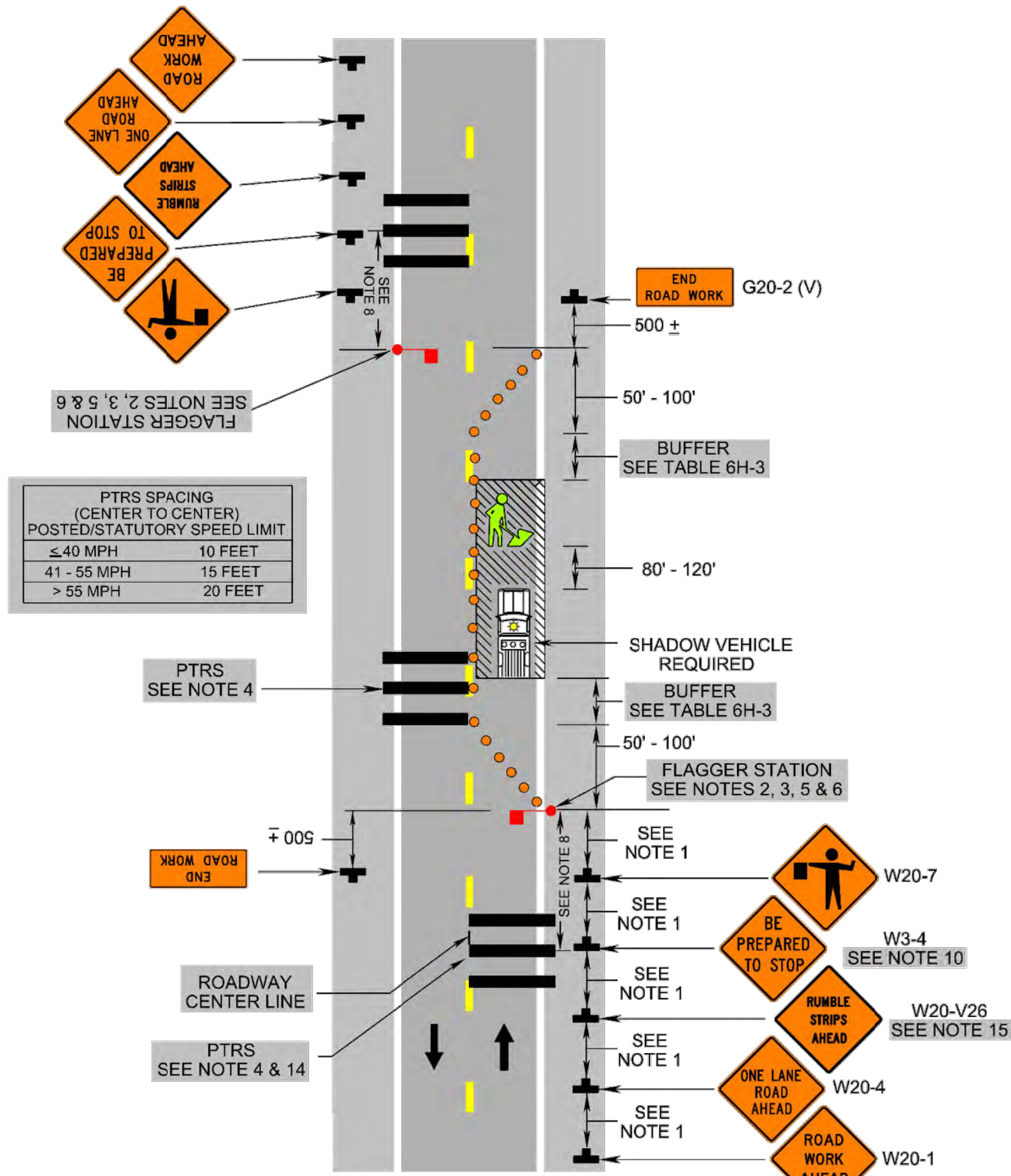
SHEET NO.	REV.
C-602	

Shoulder Operation with Minor Encroachment (Figure TTC-5.2)



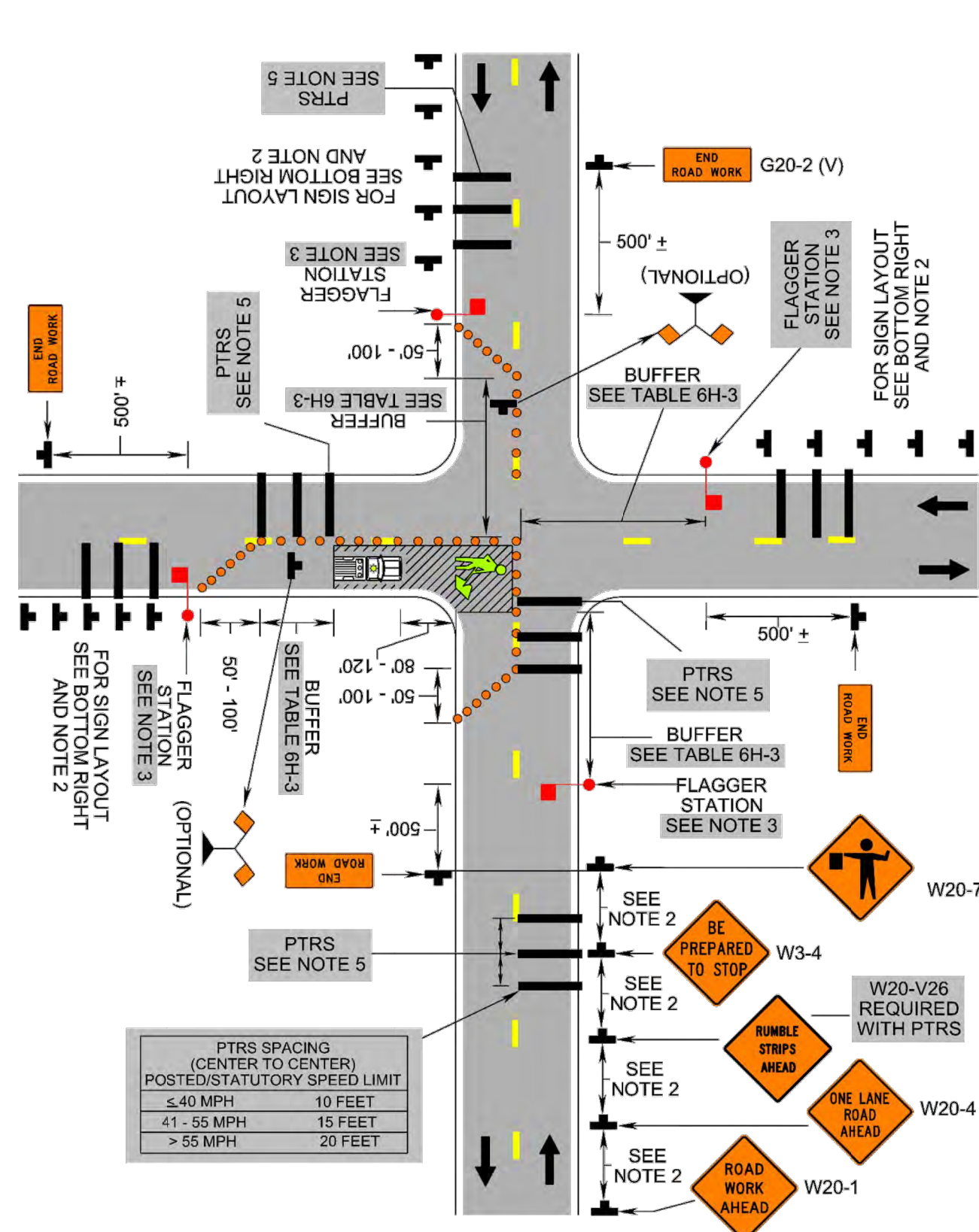
1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

Lane Closure on a Two-Lane Roadway Using Flaggers (Figure TTC-23.2)



1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

Lane Closure Operation in an Intersection (Figure TTC-28.2)



2: Revision 2 - 9/1/2019

Typical Traffic Control Shoulder Operation with Minor Encroachment (Figure TTC-5.2)

NOTES

- Standard: 1. For required sign assemblies for multi-lane roadways see Note 1, TTC-4.1.
Guidance: 2. Sign spacing should be 1300'-1500' for Limited Access highways.
Option: 4. The ROAD WORK AHEAD (W20-1) sign on an intersecting roadway may be omitted...
Standard: 5. A shadow vehicle with either an arrow board operating in the caution mode...
Table: Taper Length L
Table: Channelizing Device Spacing
Option: 9. On roadways with paved shoulders having a width of 8 feet or more...
Option: 10. The buffer space length The buffer space length shall be as shown in Table 6H-3 on Page 6H-5 for the posted speed limit.
Option: 11. A truck-mounted attenuator (TMA) shall be used on Limited Access highways...
Option: 12. When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed.

1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

Typical Traffic Control Lane Closure on a Two-Lane Roadway Using Flaggers (Figure TTC-23.2)

NOTES

- Guidance: 1. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less...
Standard: 4. Portable Temporary Rumble Strips (PTRS) shall be used as noted in Section 6F.99.
Option: 8. A SLOW (W21-V10) sign may be required in this area to give advance warning...
Guidance: 9. If the queue of traffic reaches the BE PREPARED TO STOP (W3-4) sign...
Standard: 11. At night, flagger stations shall be illuminated, except in emergencies...
Option: 12. Cones may be eliminated when using a pilot vehicle operation...
Standard: 14. When used, three portable temporary rumble (PTRS) strips shall be installed across the entire travel lane adjacent to the BE PREPARED TO STOP (W3-4) sign.

1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

Typical Traffic Control Lane Closure Operation in an Intersection (Figure TTC-28.2)

NOTES

- Guidance: 1. The control of traffic through the intersection in order of preference should be:
Standard: 4. Channelizing device spacing shall be on 20' centers or less.
Option: 6. If room permits, a shadow vehicle with at least one rotating amber light...
Standard: 7. For emergency situations (any non-planned operation) of 30 minutes or less duration...
Guidance: 8. If the work space extends across a crosswalk, the crosswalk should be closed...
Support: 9. Turns can be prohibited as required by vehicular traffic conditions.

1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

MAINTENANCE OF TRAFFIC NOTES

- 1. IT IS NOT THE INTENT OF THIS PLAN TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN THE CONSTRUCTION OF EACH WORK ZONE...
2. CONTRACTOR SHALL CONTACT BEDFORD COUNTY AND VDOT REPRESENTATIVES IN WRITING WITH A WORK SCHEDULE TWO WEEKS BEFORE STARTING WORK...
3. THE CONTRACTOR SHALL COORDINATE THE SEQUENCE OF CONSTRUCTION WITH BEDFORD COUNTY...
4. SIGN SPACING MAY BE ADJUSTED TO FIT FIELD CONDITIONS WITH BEDFORD COUNTY AND VDOT APPROVAL...
5. WHEN WORK IS NOT BEING PERFORMED, THE CLEAR ZONE OF THE ROADWAY SHALL BE FREE OF STORED MATERIALS AND PARKED EQUIPMENT...
6. THE POSTED SPEED LIMIT IS 25 MPH IN THE PROJECT AREA...
7. SAFE ACCESS TO ALL EXISTING PUBLIC ROADWAYS SHALL BE MAINTAINED AT ALL TIMES...
8. WORK SHALL NOT OCCUR AT NIGHT UNLESS DURING AN EMERGENCY CONDITION...
9. ALL FLAGGERS SHALL BE STATE-CERTIFIED AND HAVE THEIR CERTIFICATION CARD IN THEIR POSSESSION...
10. CHANNELIZING DEVICES SUCH AS CONES OR BARRELS SHALL BE UTILIZED WHERE REQUIRED AND SHALL CONFORM TO THE WAPM...
11. CONTRACTOR SHALL MAINTAIN ALL EXISTING ROADWAY SIGNAGE DURING ALL PHASES OF THE PROJECT...
12. LANE CLOSURES SHALL BE LIMITED TO 1/4 MILE OR AS DIRECTED BY BEDFORD COUNTY AND VDOT...
13. MOTORISTS SHALL BE WARNED IN ADVANCE OF ANY INTERSECTION CLOSURES...
14. A MINIMUM CLEAR ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING WORK HOURS...
15. ALL TRAFFIC CONTROL DEVICES USED WILL CONFORM TO THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL...
16. ALL WORK ZONES ARE TO BE REMOVED AND NORMAL TRAFFIC PATTERNS RESTORED AT THE COMPLETION OF EACH DAY'S SPECIFIED WORK HOURS...
17. MAINTENANCE OF TRAFFIC (MOT) SHALL BE IN ACCORDANCE WITH THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL...
18. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A STAGING AREA OUTSIDE THE CLEAR ZONE OR DYNAMIC DEFLECTION AREAS OF PHYSICAL BARRIERS AT ALL LOCATIONS FOR CONSTRUCTION EQUIPMENT AND OR MATERIAL STORAGE.

MAINTENANCE OF TRAFFIC NARRATIVE

THIS MAINTENANCE OF TRAFFIC PLAN IS INTENDED TO PROVIDE A BASIC OVERVIEW OF THE TYPES OF TRAFFIC CONTROL MEASURES NECESSARY FOR THE MAJOR WORK ZONES ON THE PROJECT. THIS PLAN IS NOT INTENDED TO SHOW EVERY FEATURE OF THE TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL ULTIMATELY BE RESPONSIBLE FOR ENSURING SAFE TRAVEL AROUND ALL WORK AREAS.

THE MAINTENANCE OF TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION'S WORK AREA PROTECTION MANUAL, FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND AASHTO'S LATEST DESIGN MANUAL.

Table with 3 columns: SIGN SPACING DISTANCE, POSTED SPEED LIMIT (MPH), and SIGN SPACING DISTANCE. Rows include 0-45, 46+, 350'-500', and 500'-800'.

Table 6H-3: BUFFER SPACE/FLAGGER DISTANCE FROM WORK AREA. Columns: POSTED SPEED LIMIT (MPH), DISTANCE (FEET). Rows range from 0-20 to 70.

HURT & PROFFITT logo and contact information: 434-847-7796, 2524 LANGHORNE ROAD, LYNCHBURG, VA, 24501.

TRAFFIC CONTROL DETAILS FOR BRWA WESTERN HILLS SANITARY SEWER REPLACEMENT BEDFORD, VIRGINIA

Project information table: PROJECT NO. 20230482, FILE NO., LAT. 37.332627°, LONG. -79.540603°, DATE: 10/11/2023, DRAWN BY: MSF, CHECKED BY: MDW.

Professional Engineer seal for Michael D. Wilson, Lic. No. 044203, dated 10/11/2023.

FINAL stamp and project identification: BRWA JOB # 2023-018, HURT & PROFFITT logo, SHEET NO. C-701, REV.

THIS SHEET IS INTENDED TO BE REPRODUCED AT X-COPY. REPRODUCTION OF THIS SHEET AT A DIFFERENT SIZE THAN INTENDED SHALL VOID THE SCALE SHOWN ON THE SHEET.