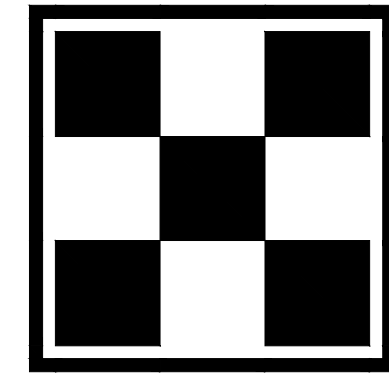




Know what's below.  
Call before you dig.  
SITE SERIAL # \_\_\_\_\_



# Nestlé PURINA®

## Engineering

### NPPC ALLENTOWN, PA FACILITY NEW MUNICIPAL WATER SERVICE CIVIL-MUNICIPAL WATER LINE PRELIMINARY/ FINAL LAND DEVELOPMENT PLANS SOUTH WHITEHALL TOWNSHIP, LEHIGH COUNTY, PENNSYLVANIA AUGUST 31, 2023

#### SURVEYOR'S CERTIFICATION

I, XXXXXXXXXXXXX, A LICENSED PROFESSIONAL LAND SURVEYOR OF THE COMMONWEALTH OF PENNSYLVANIA, DO HEREBY CERTIFY THAT THE ACCOMPANYING PLANS AND SUPPORTING DOCUMENTATION ARE TRUE, CORRECT, ACCURATE AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS, PROVISIONS AND CONDITIONS OF RESOLUTION BY WHICH THE TOWNSHIP BOARD OF COMMISSIONERS CONDITIONALLY WAIVED THE REQUIREMENTS OF THE TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE FOR THE PROJECT REFLECTED ON THIS PLAN.

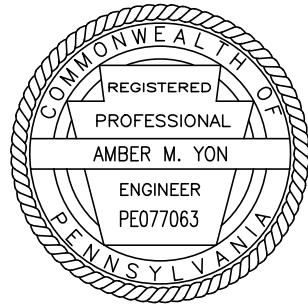
PROFESSIONAL LAND SURVEYOR:  
VASSILE TRIFAN, P.L.S. DATE: X/XX/2023  
SU076608



#### DESIGN PROFESSIONAL'S CERTIFICATION

I, A LICENSED PROFESSIONAL ENGINEER OF THE COMMONWEALTH OF PENNSYLVANIA, DO HEREBY CERTIFY THAT THE ACCOMPANYING PLANS AND SUPPORTING DOCUMENTATION ARE TRUE, CORRECT, ACCURATE AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS, PROVISIONS AND CONDITIONS OF RESOLUTION BY WHICH THE TOWNSHIP BOARD OF COMMISSIONERS CONDITIONALLY WAIVED THE REQUIREMENTS OF THE TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE FOR THE PROJECT REFLECTED ON THIS PLAN.

DESIGN PROFESSIONAL:  
AMBER M. YON, P.E. DATE: 9/20/2023  
PE077063



#### OWNER'S CERTIFICATION

[I/WE] BEING DULY SWORN ACCORDING TO LAW DEPOSE AND SAY THAT [I AM/WE ARE] THE SOLE OWNER(S) OF THIS PROPERTY IN PEACEFUL POSSESSION OF THE SAME, AND THAT THERE ARE NO SUITS PENDING AFFECTING THE TITLE THEREOF. [I/WE] DO NOT FURTHER DEPOSE AND SAY THAT [I/WE] HAVE COMPLIED WITH ALL REQUIREMENTS, PROVISIONS AND CONDITIONS OF RESOLUTION BY WHICH THE TOWNSHIP BOARD OF COMMISSIONERS CONDITIONALLY WAIVED THE REQUIREMENTS OF THE TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE FOR THE PROJECT REFLECTED ON THIS PLAN. [I/WE] AGREE THAT [I/WE] SHALL EXONERATE, INDEMNIFY, PROTECT, DEFEND AND SAVE HARMLESS THE TOWNSHIP FROM ANY AND ALL CLAIMS, LAWSUITS, DAMAGES AND LIABILITIES OF EVERY KIND, CHARACTER AND MANNER WHATSOEVER PERTAINING TO, RELATING TO, RESULTING FROM, CAUSED BY OR ARISING OUT OF THE TOWNSHIP'S APPROVAL OF THE WAIVER REQUEST AS EVIDENCED BY RESOLUTION \_\_\_\_\_ ALL AS MORE FULLY OUTLINED IN RESOLUTION \_\_\_\_\_

NESTLÉ PURINA PETCARE  
NAME: BRIAN BLANCK  
TITLE: PLANT MANAGER

SWORN AND SUBSCRIBED BEFORE ME THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_\_

NOTARY PUBLIC  
MY COMMISSION EXPIRES ON \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_\_

#### DEVELOPER'S CERTIFICATION

AS DEVELOPER, I HEREBY CERTIFY THAT ALL LAND TO BE IMPROVED WILL BE PROPERLY GRADED TO PROVIDE ADEQUATE SURFACE DRAINAGE SO THAT NO LOW SPOTS OR WATER POOLS WILL BE CREATED, AND THAT PERMANENT CONCRETE REFERENCE MONUMENTS WILL BE PLACED AT GRADE, AS NOTED ON THE PLAN, UPON COMPLETION OF GRADING.

NESTLÉ PURINA PETCARE  
NAME: BRIAN BLANCK  
TITLE: PLANT MANAGER

SWORN AND SUBSCRIBED BEFORE ME THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_\_

NOTARY PUBLIC  
MY COMMISSION EXPIRES ON \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_\_

#### TOWNSHIP ACKNOWLEDGMENT

BASED UPON AND EXPRESSLY IN RELIANCE ON THE FOREGOING CERTIFICATIONS OF THE OWNER AND DESIGN PROFESSIONAL, THE WITHIN PLAN IS ACCEPTED BY SOUTH WHITEHALL TOWNSHIP AS THE PLAN SATISFYING ALL REQUIREMENTS, PROVISIONS AND CONDITIONS OF RESOLUTION \_\_\_\_\_

#### CHAIRMAN'S SIGNATURE

#### SOUTH WHITEHALL TOWNSHIP APPROVALS

APPROVED \_\_\_\_\_ BY THE SOUTH WHITEHALL TOWNSHIP PLANNING COMMISSION.

#### CHAIRMAN SECRETARY

APPROVED \_\_\_\_\_ BY THE BOARD OF COMMISSIONERS OF THE TOWNSHIP OF SOUTH WHITEHALL.

#### PRESIDENT SECRETARY

#### TOWNSHIP ENGINEER

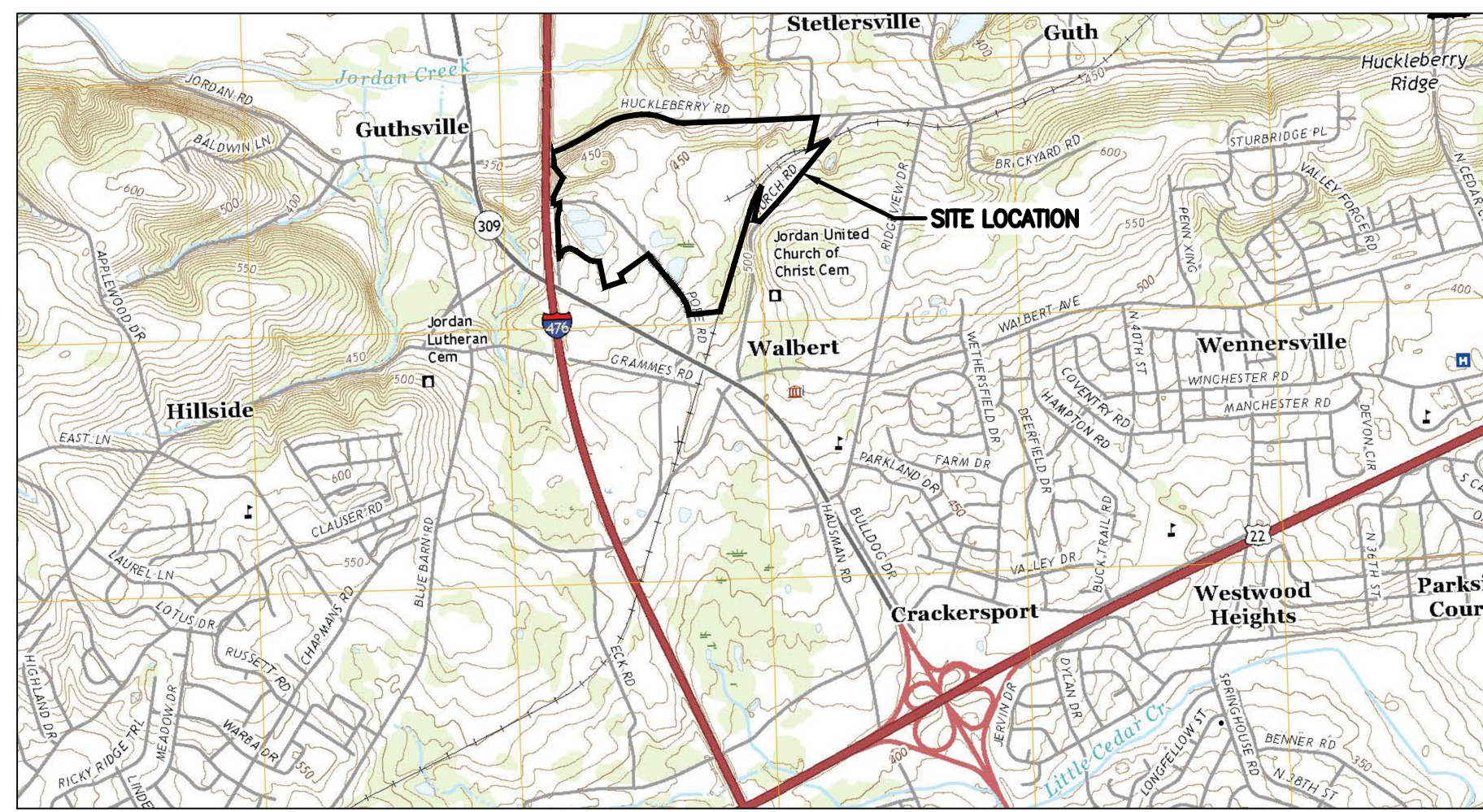
#### LEHIGH VALLEY PLANNING COMMISSION

REVIEWED: \_\_\_\_\_ BY THE LEHIGH VALLEY PLANNING COMMISSION.

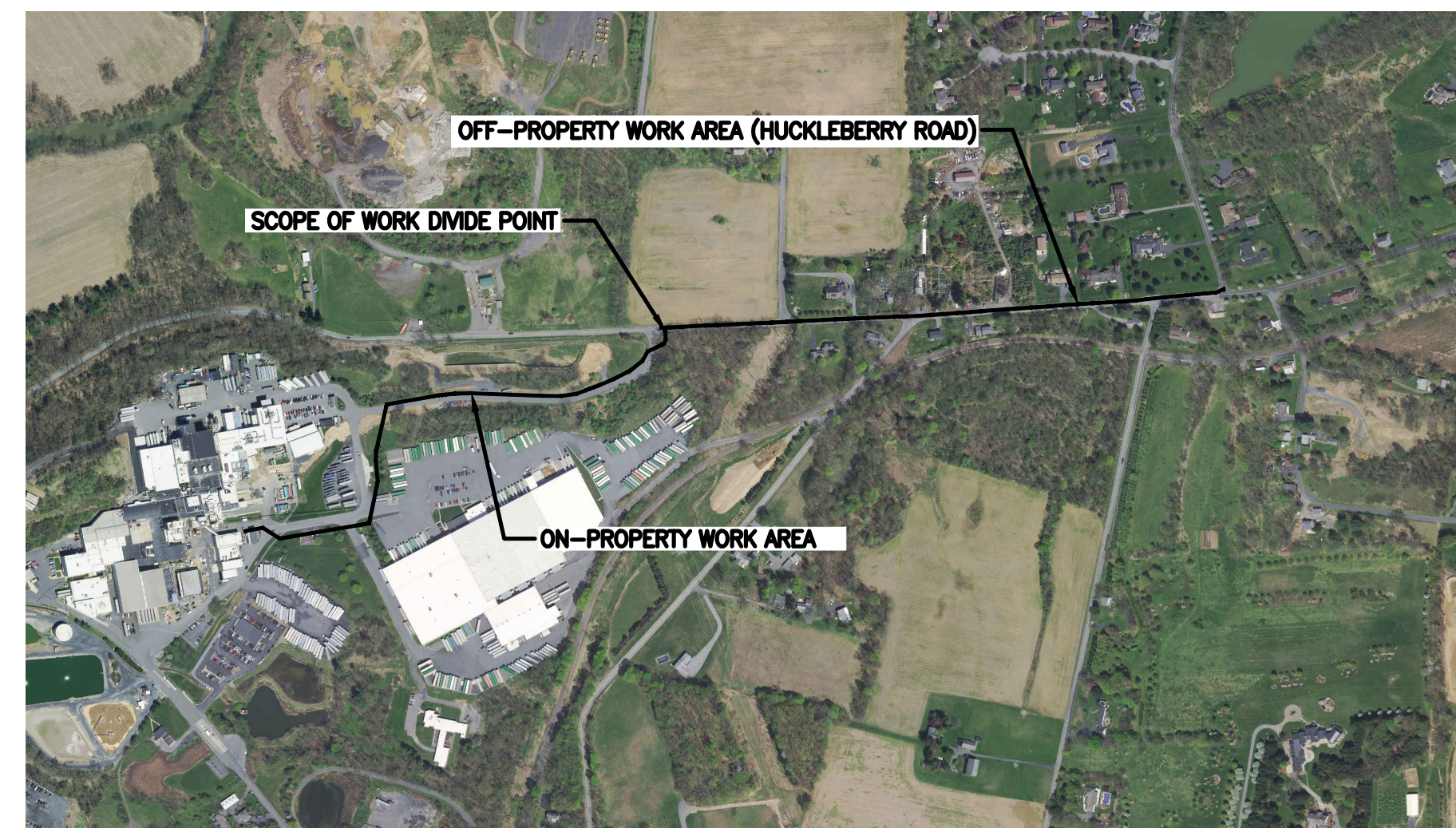
#### PLANNER DATE

#### PROOF OF RECORDING

PLAN RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS OF LEHIGH COUNTY, PENNSYLVANIA, AS DOCUMENT ID: \_\_\_\_\_ ON THE \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_\_



LOCATION MAP  
SCALE: 1"=2000'  
(SOURCE: USGS ALLENTOWN WEST, PA, DATED 2019)



OFF-PROPERTY WORK AREA (HUCKLEBERRY ROAD)  
SCOPE OF WORK DIVIDE POINT  
ON-PROPERTY WORK AREA

#### SITE DATA - MAIN CAMPUS

OWNER/DEVELOPER: NESTLÉ PURINA PETCARE  
2050 POPE ROAD  
ALLENTOWN, PA 18104-9308  
CORPORATE ADDRESS  
CHECKERBOARD SQUARE  
ST. LOUIS, MO 63164-0001

DOCUMENT ID: DBV 1538 PG. 0661  
PARCEL ID: 547736133872-1  
547732658505-1  
GROSS AREA: 114,5996 AC.  
SEWER: ON-LOT  
WATER: ON-LOT

#### SITE DATA - NORTHERN TRACT

OWNER/DEVELOPER: NESTLÉ PURINA PETCARE  
2050 POPE ROAD  
ALLENTOWN, PA 18104-9308  
CORPORATE ADDRESS  
CHECKERBOARD SQUARE  
ST. LOUIS, MO 63164-0001

DOCUMENT ID: 2023006208  
PARCEL ID: 547726166829  
GROSS AREA: 18,765 AC.  
SEWER: ON-LOT  
WATER: ON-LOT

#### ZONING DATA

ZONING DATA PROVIDED IS BASED ON AN INTERPRETATION OF THE ZONING ORDINANCE BY THE PLAN PREPARER AND IS SUBJECT TO CONFIRMATION BY THE APPROPRIATE MUNICIPAL OFFICIAL.

ZONING DISTRICT: IC-1 & RR-2  
EXISTING/PROPOSED USE: MANUFACTURING

AREA AND DIMENSIONAL REQUIREMENTS:	IC-1	RR-2	PROVIDED MAIN CAMPUS	PROVIDED NORTHERN TRACT
MINIMUM REQUIREMENTS	REQUIRED	MANUFACTURING USE NOT PERMITTED IN THIS DISTRICT	CONFORMS	CONFORMS
MIN. LOT AREA:	2.5 ACRES		114,5996 ACRES	18,765 ACRES
MIN. FRONTAGE:	300'		CONFORMS	CONFORMS
MIN. BUILDING HEIGHT:	70'		CONFORMS	N/A
MAX. IMPERVIOUS COVERAGE:	75%		40.7%-BASE-ENG	1.3%(10,966 S.F.)
MIN. YARD SETBACKS:				
FRONT YARD:	50'	150+	CONFORMS	CONFORMS
SIDE YARD:	25'	50+	CONFORMS	CONFORMS
REAR YARD:	25'	50+	CONFORMS	CONFORMS

\* PER DIRECTIVE OF SOUTH WHITEHALL TWP. ZONING OFFICER, GRCA 2017

#### PARKING CALCULATIONS:

NUMBER OF EMPLOYEES (AS PROVIDED BY APPLICANT)  
FIRST SHIFT: 188 CURRENT + 5 NEW = 193  
SECOND SHIFT: 140 CURRENT + 5 NEW = 145  
THIRD SHIFT: 140 CURRENT + 5 NEW = 145

REQUIRED PARKING:  
1 SPACES/ EMPLOYEE ON THE LARGEST TWO SHIFTS  
=193+144 = 338 SPACES REQUIRED

PROVIDED PARKING:  
294 SPACES + 11 MOTORCYCLE SPACES EXISTING TO REMAIN  
+ 186 PROPOSED  
=480 SPACES + 11 MOTORCYCLE SPACES PROVIDED

ACCESSIBLE PARKING:  
188 PROPOSED PARKING SPACES THEREFORE, ADA REQUIRES 6 ADDITIONAL ACCESSIBLE SPACES. THE SPACES ARE PROPOSED NEAR THE ADMINISTRATIVE BUILDING.  
THERE ARE AN ADDITIONAL 9 EXISTING ACCESSIBLE SPACES ON THE SITE

DWG NO.	DESCRIPTION
671-T001-3B	TITLE SHEET
671-C001-3B	WATER LINE PLAN AND PROFILE VIEW - HUCKLEBERRY RD. (STA. -0+10 - 3+00)
671-C002-3B	WATER LINE PLAN AND PROFILE VIEW - HUCKLEBERRY RD. (STA. 3+00 - 9+00)
671-C003-3B	WATER LINE PLAN AND PROFILE VIEW - HUCKLEBERRY RD. (STA. 9+00 - 15+00)
671-C004-3B	WATER LINE PLAN AND PROFILE VIEW - HUCKLEBERRY RD. (STA. 15+00 - 21+00)
671-C005-3B	WATER LINE PLAN AND PROFILE VIEW - HUCKLEBERRY RD. (STA. 21+00 - 22+50) & NESTLE PRIVATE RD. (STA. -0+25 - 4+00)
671-C006-3B	WATER LINE PLAN AND PROFILE VIEW - NESTLE PRIVATE RD. (STA. 4+00 - 10+00)
671-C007-3B	WATER LINE PLAN AND PROFILE VIEW - NESTLE PRIVATE RD. (STA. 10+00 - 16+00)
671-C008-3B	WATER LINE PLAN AND PROFILE VIEW - NESTLE PRIVATE RD. (STA. 16+00 - 22+00)
671-C009-3B	DEMOLITION PLAN
671-C010-3B	CONSTRUCTION DETAILS (1 OF 2)
671-C011-3B	CONSTRUCTION DETAILS (2 OF 2)
671-C012-3B	WELL HOUSE #6 REPLACEMENT PLAN
671-C013-3B	EROSION AND SEDIMENTATION CONTROL DETAILS
671-C014-3B	EROSION & SEDIMENTATION CONTROL NOTES (1 OF 1)
671-C015-3B	SPOILS AND STOCKPILE AREAS PLAN

File: G:\PROJECT FILES\GRAPHICS\H9218 - NESTLÉ - ALL WATERLINE DESIGN\CAD\DRAWINGS\LAYOUT SHEETS\H9218 WATER LINE - TITLE SHEETS Saved: 19-Sep-23 17:14 By: Sheinze

REVISION	BY	APPR BY	DATE	REVISION	BY	APPR BY	DATE	REVISION	BY	APPR BY	DATE	REVISION	BY	APPR BY	DATE	REVISION	BY	APPR BY	DATE
3B				60% DESIGN REVIEW SUBMITTAL	SMH	AMY	09-13-23												
3A				60% DESIGN REVIEW SUBMITTAL	TPM	AMY	06-20-23												
2				REVIEW SUBMITTAL	TPM	AMY	05-05-23												
1				DESIGN SUBMITTAL	TPM	AMY	03-22-23												



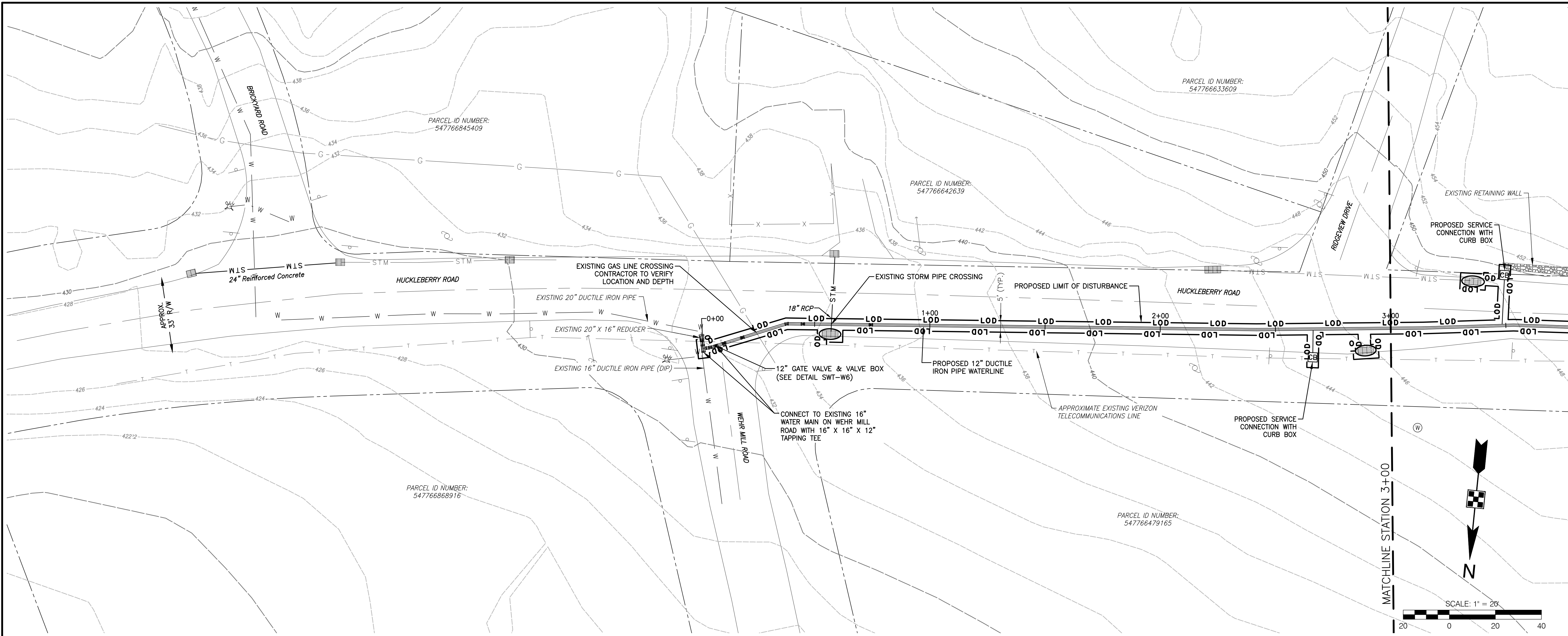
DATE: 06-20-2023  
MADE BY: T. MARTIN  
SCALE: 1" = 20'  
BY: S. DONOVAN  
ENGR: A. YON  
PRINTED: 09-20-2023

**NEW MUNICIPAL WATER SERVICE  
NPPC ALLENTOWN, PA FACILITY  
PRELIMINARY/ FINAL LAND DEVELOPMENT PLANS  
TITLE SHEET**

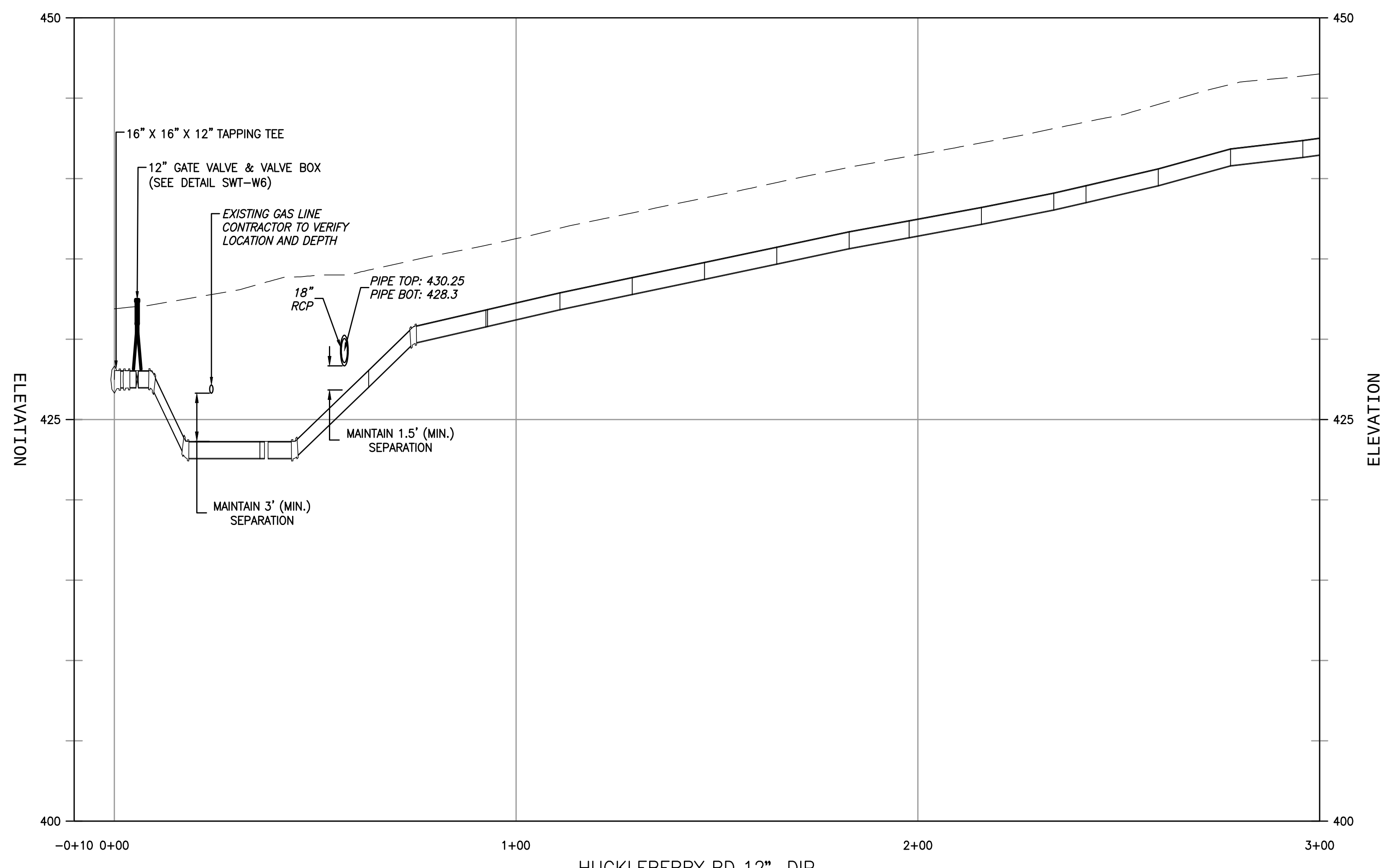
PLANT: ALLENTOWN, PA  
BLDG. NO. 00 AREA NO. 671  
DRAWING NUMBER: 671-T001-3B  
REVISION: 3B



File: G:\PROJECT FILES\GRAPHICS\HA9218 - NESTLE - ALL WATERLINE DESIGN\CAD\DRAWINGS\LAYOUT SHEETS\HA9218 WATER LINE - 60-2 Saved: 6-Sep-23 17:06 By: Sheirize



- LEGEND**
- LOD — PROPOSED LIMIT OF DISTURBANCE (5.54 ACRES)
  - LD — LD — PROPOSED LAYDOWN AREA
  - X — X — X — X — X — X — PROPOSED FENCE AT WATER METER STATION
  - 12 — 12 — PROPOSED 12" COMPOST FILTER SOCK
  - PROPOSED STORM WATER INLET PROTECTION
  - — — PROPOSED SPOILS AREA LIMITS
  - — — PROPOSED STOCKPILE AREA LIMITS
  - - - - - EXISTING EASEMENT LINE
  - - - - - APPROXIMATE PROPERTY LINE
  - - - - - EXISTING SIGN
  - - - - - EXISTING FENCE
  - - - - - EXISTING GUIDERAIL
  - - - - - EXISTING NATURAL GAS LINE
  - - - - - ABANDONED NATURAL GAS PIPE
  - - - - - EXISTING UNDERGROUND FIBEROPTIC
  - - - - - EXISTING TELEPHONE/COMMUNICATIONS
  - - - - - EXISTING UNDERGROUND ELECTRIC
  - - - - - EXISTING STORM WATER PIPE
  - - - - - EXISTING WATERLINE
  - - - - - EXISTING SANITARY PIPE
  - - - - - EXISTING FIRE PROTECTION WATERLINE
  - EXISTING WATER SUPPLY WELL
  - EXISTING FIRE HYDRANT
  - EXISTING WATER VALVE
  - EXISTING POST INDICATOR VALVE
  - EXISTING ELECTRIC BOX
  - EXISTING UTILITY POLE
  - EXISTING LIGHT POST
  - EXISTING MECHANICAL PUMP
  - EXISTING STORM INLET



HUCKLEBERRY RD 12" DIP  
STATION: -0+10.00 TO 3+00.00  
SCALE: 1"=20' HORIZ.  
1"=5' VERT.

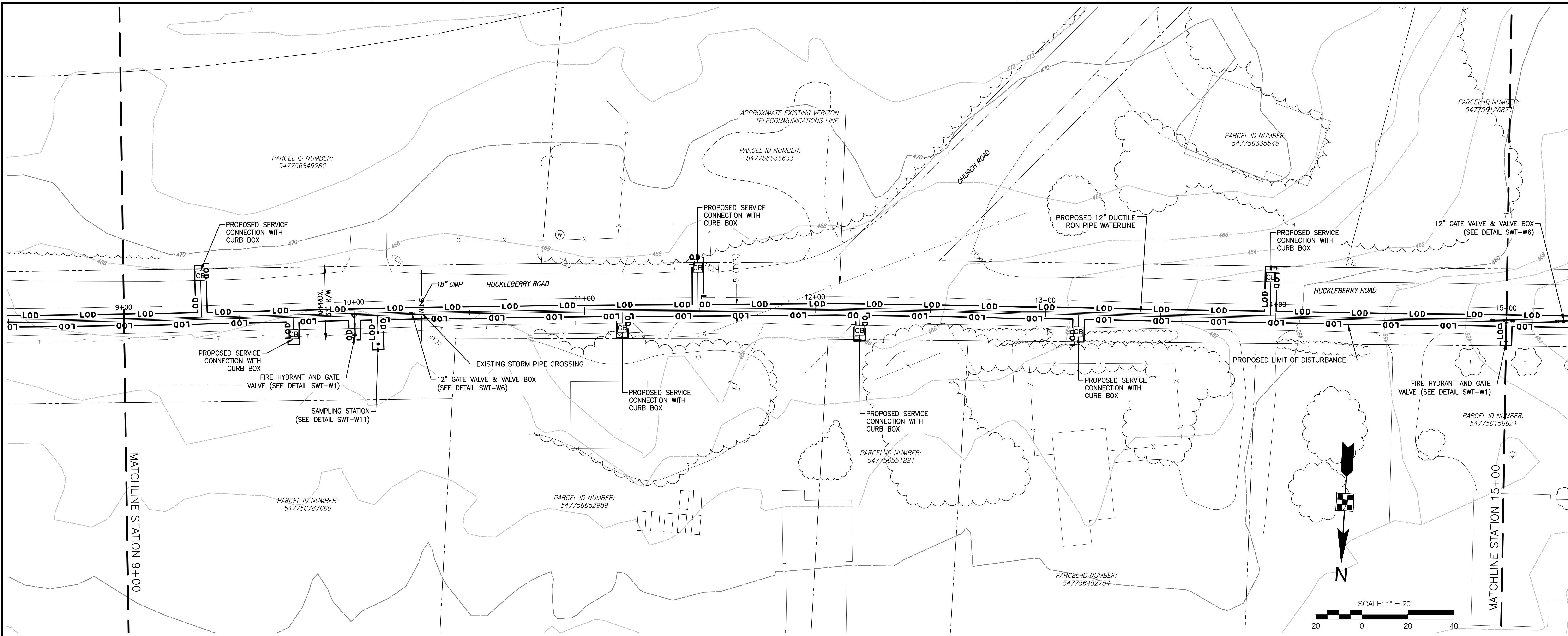
LAYDOWN AREA:	SQUARE FEET:	ACRES:
A	6,233	0.14309
B	5,078	0.11657
C	4,219	0.09685
D	2,501	0.05741
E	14,496	0.33278
<b>TOTAL:</b>	<b>32,527</b>	<b>0.7467</b>

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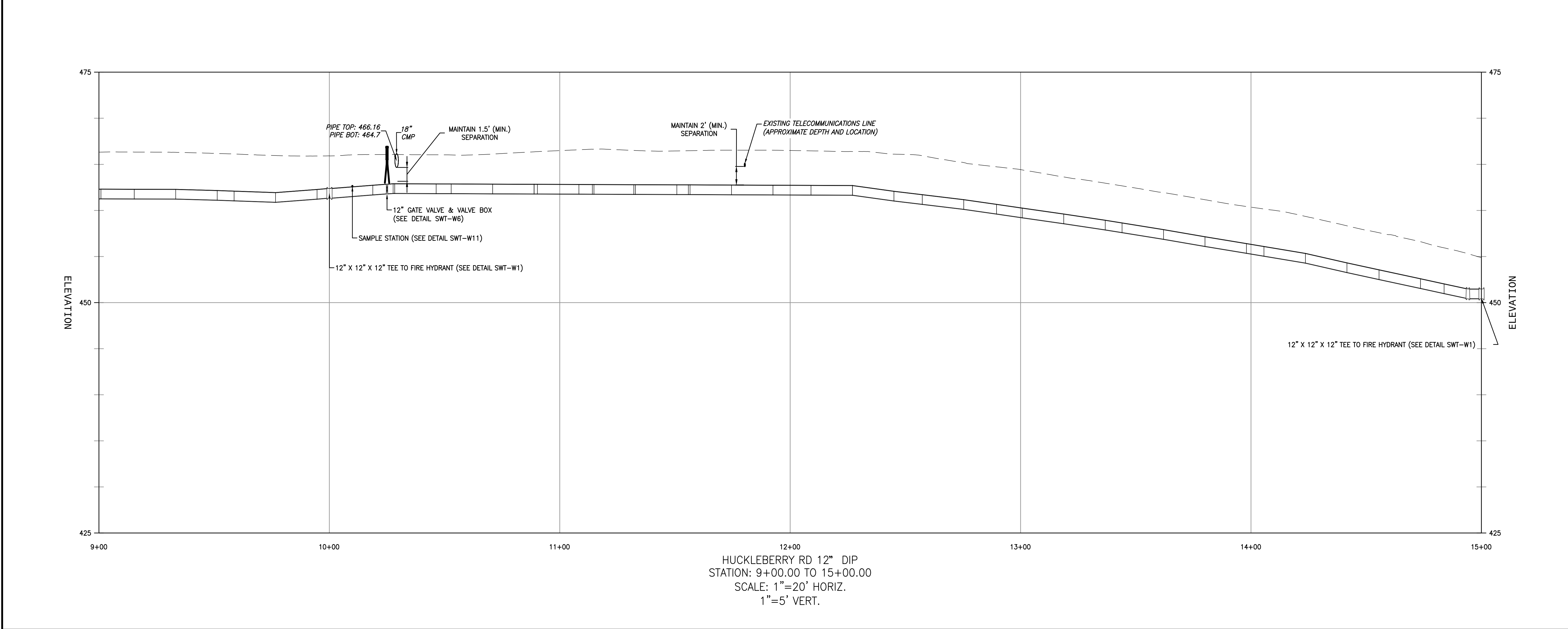


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**LEGEND**

- PROPOSED LIMIT OF DISTURBANCE (5.54 ACRES)
- PROPOSED LAYDOWN AREA
- PROPOSED WATER SERVICE WITH CURB BOX
- PROPOSED FENCE AT WATER METER STATION
- PROPOSED TOWNSHIP EASEMENT
- PROPOSED 12" COMPOST FILTER SOCK
- PROPOSED STORM WATER INLET PROTECTION
- PROPOSED SPOILS AREA LIMITS
- PROPOSED STOCKPILE AREA LIMITS
- EXISTING EASEMENT LINE
- APPROXIMATE PROPERTY LINE
- EXISTING SIGN
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- EXISTING NATURAL GAS LINE
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- EXISTING TELEPHONE/COMMUNICATIONS
- EXISTING UNDERGROUND ELECTRIC
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- EXISTING WATER VALVE
- EXISTING POST INDICATOR VALVE
- EXISTING ELECTRIC BOX
- EXISTING UTILITY POLE
- EXISTING LIGHT POST
- EXISTING MECHANICAL PUMP
- EXISTING STORM INLET



LAYDOWN AREA:	SQUARE FEET:	ACRES:
A	6,233	0.14309
B	5,078	0.11657
C	4,219	0.09685
D	2,501	0.05741
E	14,496	0.33278
<b>TOTAL:</b>	<b>32,527</b>	<b>0.7467</b>

**HUCKLEBERRY RD 12" DIP**  
STATION: 9+00.00 TO 15+00.00  
SCALE: 1"=20' HORIZ.  
1"=5' VERT.

REVISION	BY	APP'D	DATE	REVISION	BY	APP'D	DATE

**Nestlé PURINA**  
Engineering

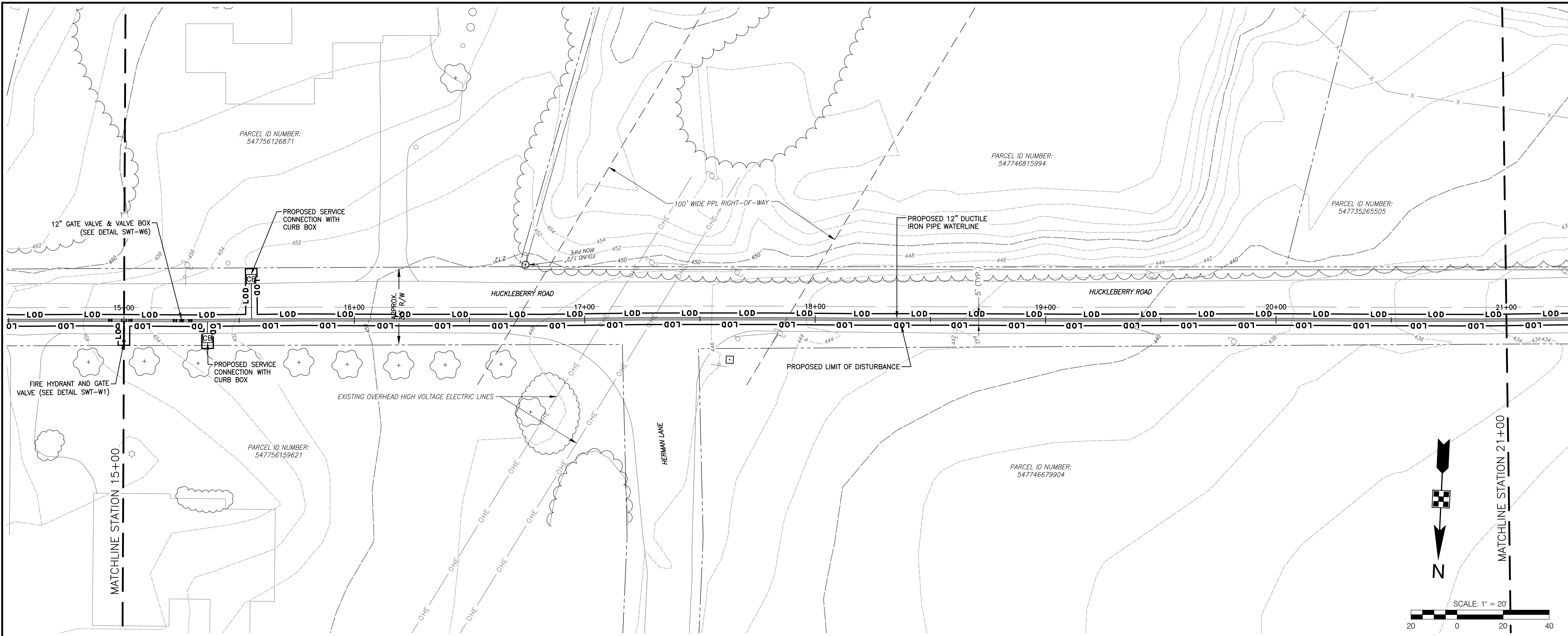
DATE: 06-30-2023  
MADE BY: T. MARTIN  
SCALE: 1" = 20'  
APP'D BY: S. DONOVAN  
ENGR: A. YON  
PRINTED: 09-13-2023

**NEW MUNICIPAL WATER SERVICE**  
**NPPC ALLENTOWN, PA FACILITY**  
**60% DESIGN REVIEW SUBMITTAL**  
**STA. 9+00 - 15+00**

PLANT: ALLENTOWN, PA  
BLOG. NO. 00      AREA NO. 671  
DRAWING NUMBER: **671-C003-3B**  
REVISION: **3B**

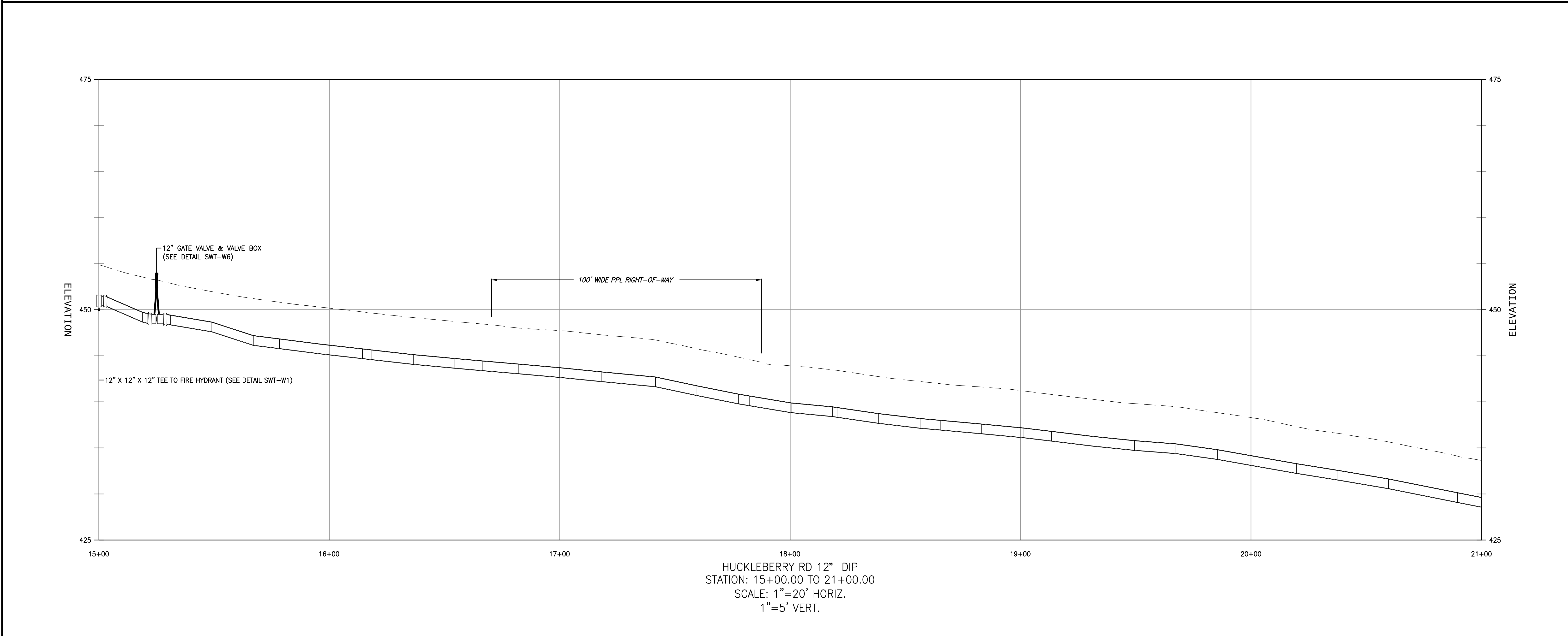
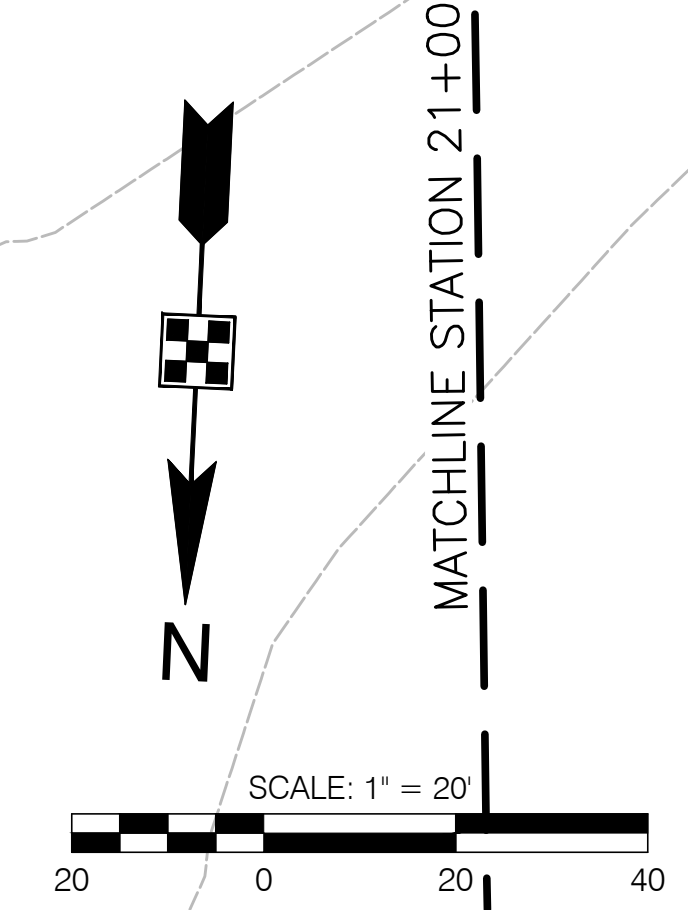


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**LEGEND**

	PROPOSED LIMIT OF DISTURBANCE (5.54 ACRES)
	PROPOSED LAYDOWN AREA
	PROPOSED WATER SERVICE WITH CURB BOX
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	PROPOSED SPOILS AREA LIMITS
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	EXISTING ELECTRIC BOX
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	EXISTING LIGHT POST
	EXISTING MECHANICAL PUMP
	EXISTING STORM INLET



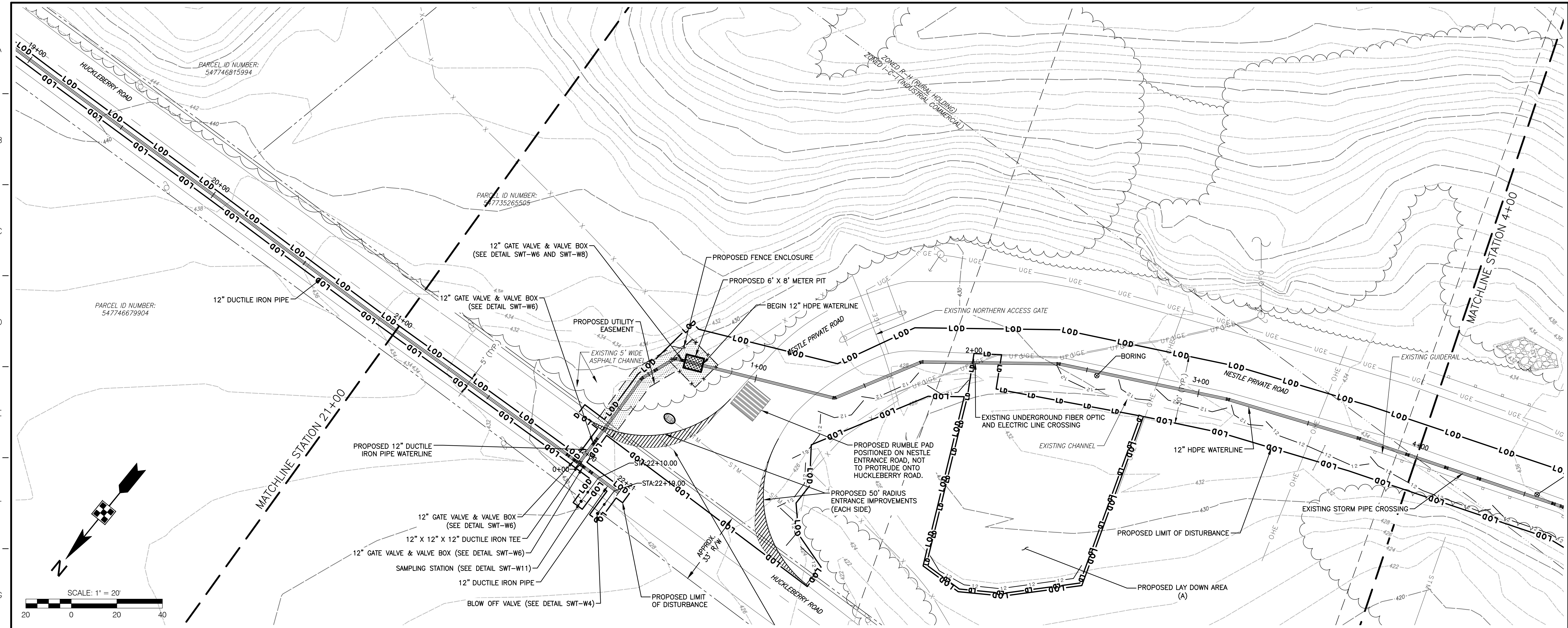
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<b>TOTAL:</b>	<b>32,527</b>	<b>0.7467</b>

HUCKLEBERRY RD 12" DIP  
 STATION: 15+00.00 TO 21+00.00  
 SCALE: 1"=20' HORIZ.  
 1"=5' VERT.

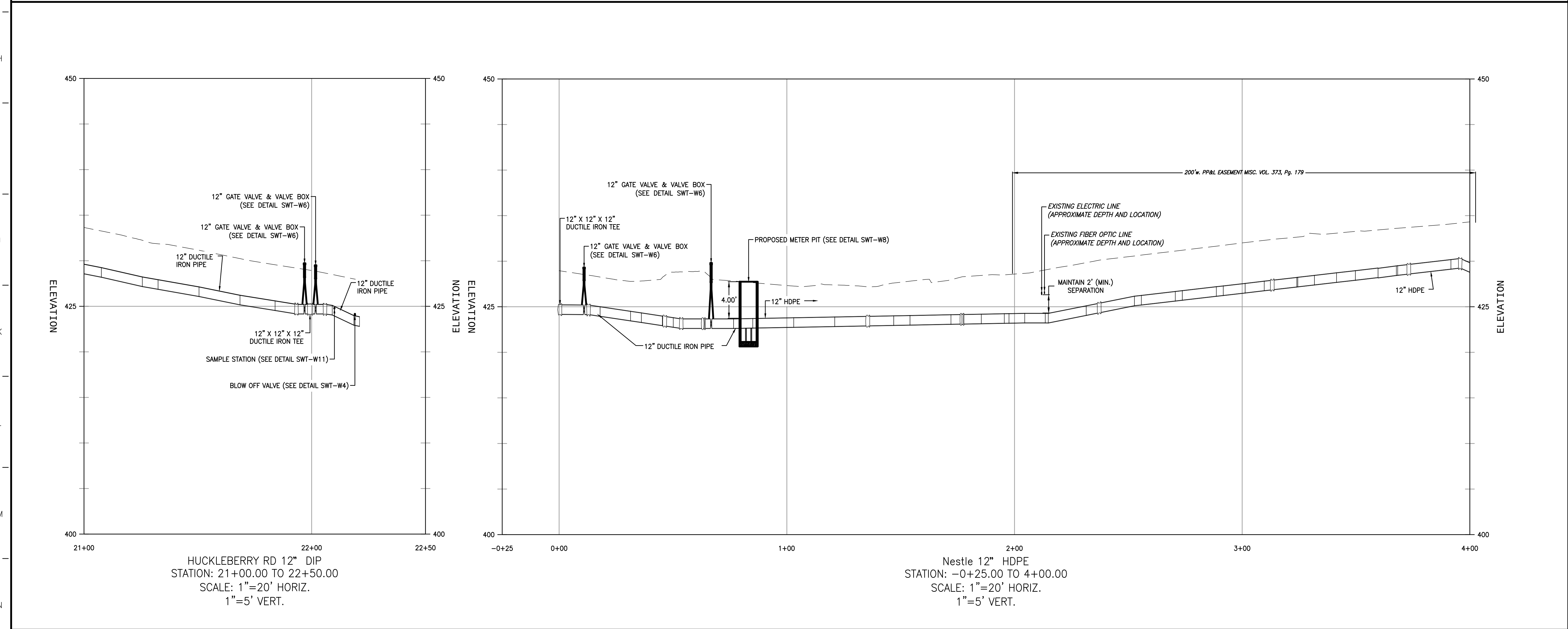
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REVISION</th> <th>BY</th> <th>APPROV</th> <th>DATE</th> <th>REVISION</th> <th>BY</th> <th>APPROV</th> <th>DATE</th> <th>REVISION</th> <th>BY</th> <th>APPROV</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	REVISION	BY	APPROV	DATE	REVISION	BY	APPROV	DATE	REVISION	BY	APPROV	DATE													<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">3B</td> <td style="width: 45%;">60% DESIGN REVIEW SUBMITTAL</td> <td style="width: 10%;">SMH</td> <td style="width: 10%;">AMY</td> <td style="width: 10%;">09-13-23</td> <td rowspan="4" style="font-size: 8px;">NOTICE - THIS DRAWING AND ALL DESIGNS, DETAILS, INVENTIONS OR DEVELOPMENTS CONSIDERED THEREBY ARE CONFIDENTIAL AND THE EXCLUSIVE PROPERTY OF NESTLE PURINA PETECARE COMPANY WHICH RESERVES ALL PATENT OR OTHER RIGHTS. COPYING, REPRODUCTION OR DUPLICATION, IN WHOLE OR IN PART, IS FORBIDDEN UNLESS EXPRESSLY AUTHORIZED BY NESTLE PURINA PETECARE COMPANY. ANY SUCH COPIES SHALL ALSO BE THE EXCLUSIVE PROPERTY OF THE NESTLE PURINA PETECARE COMPANY. THIS DRAWING AND ANY SUCH COPIES SHALL BE RETURNED WHEN REQUESTED AND USED SUBJECT TO ABOVE CONDITIONS ONLY ON AUTHORIZED COMPANY WORK.</td> </tr> <tr> <td>3A</td> <td>60% DESIGN REVIEW SUBMITTAL</td> <td>TPM</td> <td>AMY</td> <td>06-30-23</td> </tr> <tr> <td>2</td> <td>REVIEW SUBMITTAL</td> <td>TPM</td> <td>AMY</td> <td>05-05-23</td> </tr> <tr> <td>1</td> <td>DESIGN SUBMITTAL</td> <td>TPM</td> <td>AMY</td> <td>03-22-23</td> </tr> </table>	3B	60% DESIGN REVIEW SUBMITTAL	SMH	AMY	09-13-23	NOTICE - THIS DRAWING AND ALL DESIGNS, DETAILS, INVENTIONS OR DEVELOPMENTS CONSIDERED THEREBY ARE CONFIDENTIAL AND THE EXCLUSIVE PROPERTY OF NESTLE PURINA PETECARE COMPANY WHICH RESERVES ALL PATENT OR OTHER RIGHTS. COPYING, REPRODUCTION OR DUPLICATION, IN WHOLE OR IN PART, IS FORBIDDEN UNLESS EXPRESSLY AUTHORIZED BY NESTLE PURINA PETECARE COMPANY. ANY SUCH COPIES SHALL ALSO BE THE EXCLUSIVE PROPERTY OF THE NESTLE PURINA PETECARE COMPANY. THIS DRAWING AND ANY SUCH COPIES SHALL BE RETURNED WHEN REQUESTED AND USED SUBJECT TO ABOVE CONDITIONS ONLY ON AUTHORIZED COMPANY WORK.	3A	60% DESIGN REVIEW SUBMITTAL	TPM	AMY	06-30-23	2	REVIEW SUBMITTAL	TPM	AMY	05-05-23	1	DESIGN SUBMITTAL	TPM	AMY	03-22-23		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">DATE: 06-30-2023</td> </tr> <tr> <td style="font-size: 8px;">MADE BY: T. MARTIN</td> </tr> <tr> <td style="font-size: 8px;">SCALE: 1" = 20'</td> </tr> <tr> <td style="font-size: 8px;">DIPED BY: S. DONOVAN</td> </tr> <tr> <td style="font-size: 8px;">ENGR: A. YON</td> </tr> <tr> <td style="font-size: 8px;">PRINTED: 09-13-2023</td> </tr> </table>	DATE: 06-30-2023	MADE BY: T. MARTIN	SCALE: 1" = 20'	DIPED BY: S. DONOVAN	ENGR: A. YON	PRINTED: 09-13-2023	<p><b>NEW MUNICIPAL WATER SERVICE</b>  <b>NPPC ALLENTOWN, PA FACILITY</b>  <b>60% DESIGN REVIEW SUBMITTAL</b>  <b>STA. 15+00 - 21+00</b></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">PLANT: ALLENTOWN, PA</td> <td style="font-size: 8px;">AREA NO. 671</td> </tr> <tr> <td style="font-size: 8px;">BLOG. NO. 00</td> <td style="font-size: 8px;">DRAWING NUMBER</td> </tr> <tr> <td style="font-size: 8px;"><b>671-C004-3B</b></td> <td style="font-size: 8px;">REVISION</td> </tr> <tr> <td style="font-size: 8px;"> </td> <td style="font-size: 8px;"><b>3B</b></td> </tr> </table>	PLANT: ALLENTOWN, PA	AREA NO. 671	BLOG. NO. 00	DRAWING NUMBER	<b>671-C004-3B</b>	REVISION		<b>3B</b>
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HUCKLEBERRY RD 12" DIP  
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SCALE: 1"=20' HORIZ.  
1"=5' VERT.

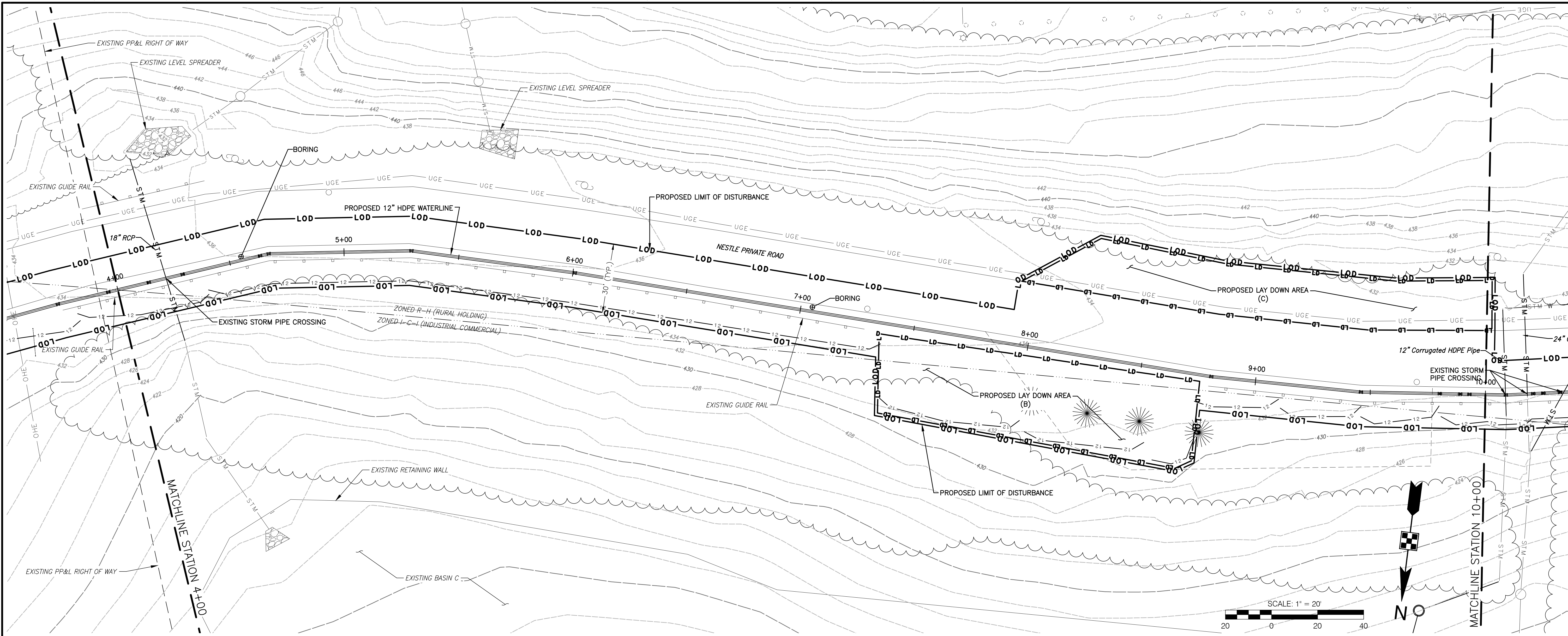
Nestle 12" HDPE  
STATION: -0+25.00 TO 4+00.00  
SCALE: 1"=20' HORIZ.  
1"=5' VERT.

REVISION	BY	APPROVED BY	DATE	REVISION	BY	APPROVED BY	DATE
3B				60% DESIGN REVIEW SUBMITTAL	SMH	AMY	09-13-23
3A				60% DESIGN REVIEW SUBMITTAL	TPM	AMY	06-30-23
2				NPPC REVIEW SUBMITTAL	TPM	AMY	05-05-23
1				30% DESIGN SUBMITTAL	TPM	AMY	03-22-23

DATE: 06-30-2023		<b>NEW MUNICIPAL WATER SERVICE</b> <b>NPPC ALLENTOWN, PA FACILITY</b> <b>60% DESIGN REVIEW SUBMITTAL</b> <b>STA. 21+00 - 22+50 &amp; -0+25 - 4+00</b>	PLANT: ALLENTOWN, PA	
MADE BY: T. MARTIN			BLOG. NO. 00	AREA NO. 671
SCALE: 1" = 20'			DRAWING NUMBER: <b>671-C005-3B</b>	
BY: S. DONOVAN			REVISION: <b>3B</b>	

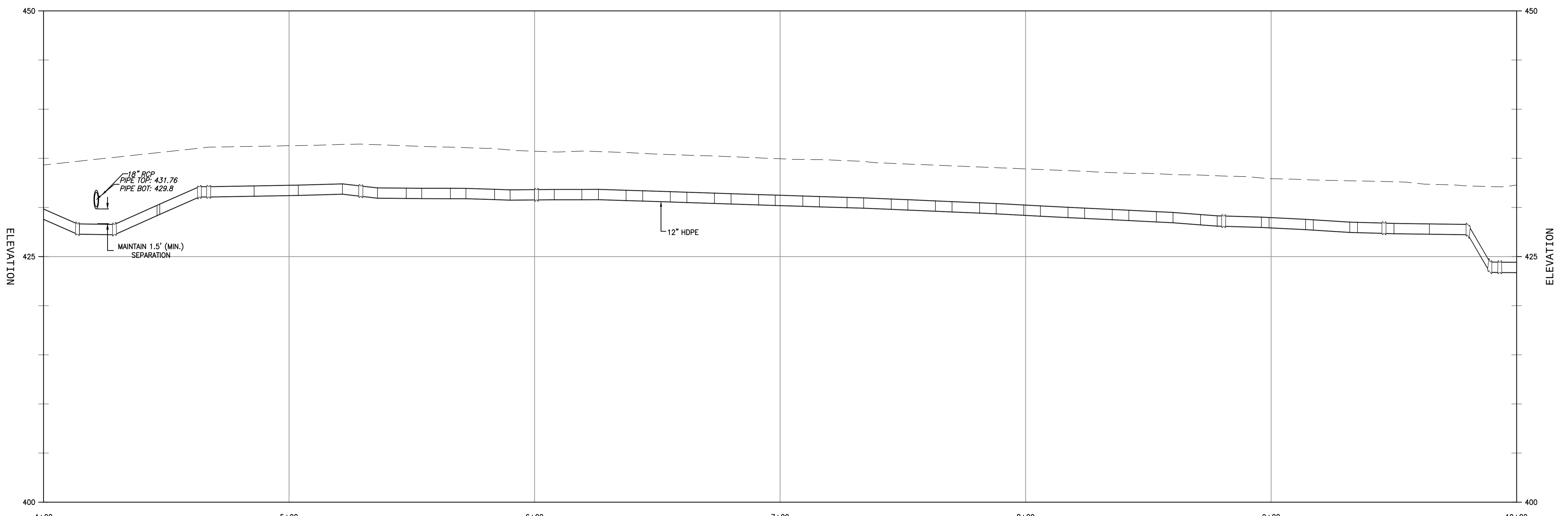


File: G:\PROJECT FILES\GRAPHICS\HA9218 - NESTLE - ALL WATERLINE DESIGN\CAD\DRAWINGS\LAYOUT SHEETS\HA9218 WATER LINE - 60-2 Saved: 6-Sep-23 17:06 By: Sheirize



**LEGEND**

	PROPOSED LIMIT OF DISTURBANCE (5.54 ACRES)
	PROPOSED LAYDOWN AREA
	PROPOSED WATER SERVICE WITH CURB BOX
	PROPOSED FENCE AT WATER METER STATION
	PROPOSED TOWNSHIP EASEMENT
	PROPOSED 12" COMPOST FILTER SOCK
	PROPOSED STORM WATER INLET PROTECTION
	PROPOSED SPOILS AREA LIMITS
	PROPOSED STOCKPILE AREA LIMITS
	EXISTING EASEMENT LINE
	APPROXIMATE PROPERTY LINE
	EXISTING SIGN
	EXISTING FENCE
	EXISTING GUIDERAIL
	EXISTING NATURAL GAS LINE
	ABANDONED NATURAL GAS PIPE
	EXISTING UNDERGROUND FIBEROPTIC
	EXISTING TELEPHONE/COMMUNICATIONS
	EXISTING UNDERGROUND ELECTRIC
	EXISTING STORM WATER PIPE
	EXISTING SANITARY PIPE
	EXISTING WATERLINE
	EXISTING FIRE PROTECTION WATERLINE
	EXISTING WATER SUPPLY WELL
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	EXISTING FIRE INDICATOR VALVE
	EXISTING ELECTRIC BOX
	EXISTING UTILITY POLE
	EXISTING LIGHT POST
	EXISTING MECHANICAL PUMP
	EXISTING STORM INLET



Nestle 12" HDPE  
STATION: 4+00.00 TO 10+00.00  
SCALE: 1"=20' HORIZ.  
1"=5' VERT.

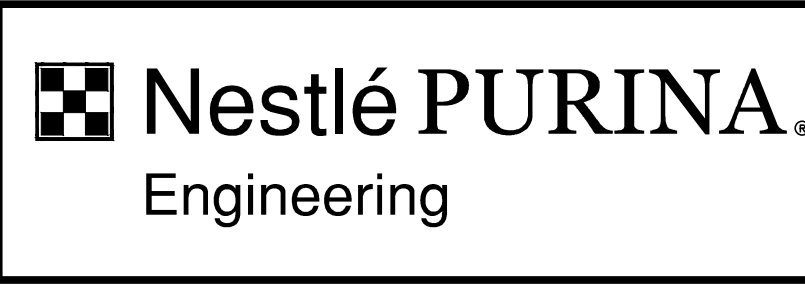
LAYDOWN AREA:	SQUARE FEET:	ACRES:
A	6,233	0.14309
B	5,078	0.11657
C	4,219	0.09685
D	2,501	0.05741
E	14,496	0.33278
<b>TOTAL:</b>	<b>32,527</b>	<b>0.7467</b>

REVISION	BY	APPR BY	DATE	REVISION	BY	APPR BY	DATE

NO.	DESCRIPTION	DATE	BY	APPR BY
3B	60% DESIGN REVIEW SUBMITTAL	09-13-23	SMH	AMY
3A	60% DESIGN REVIEW SUBMITTAL	06-30-23	TPM	AMY
2	REVIEW SUBMITTAL	05-05-23	TPM	AMY
1	DESIGN SUBMITTAL	03-22-23	TPM	AMY

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REFERENCE DRAWINGS
XXXX-DXXXX



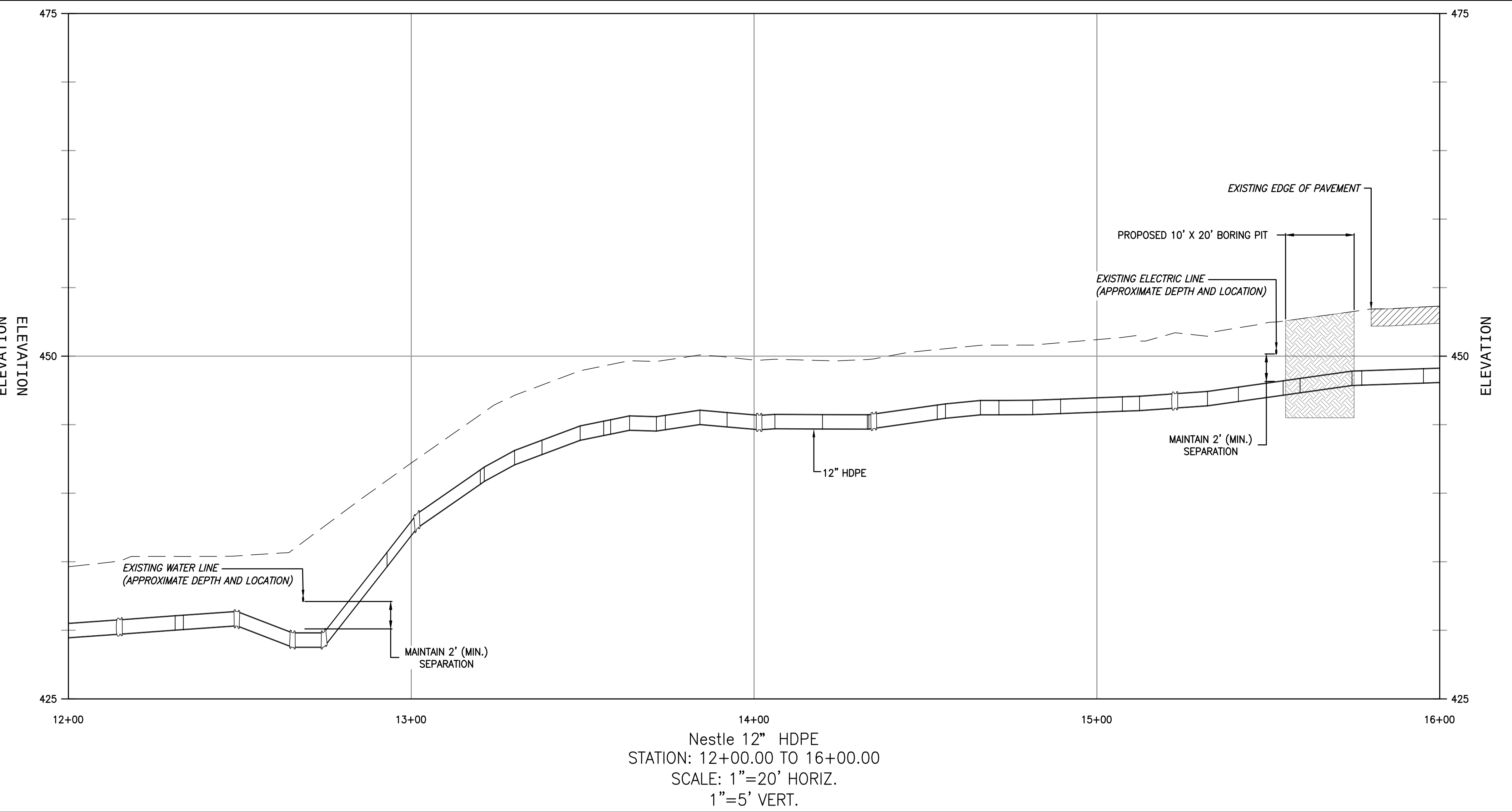
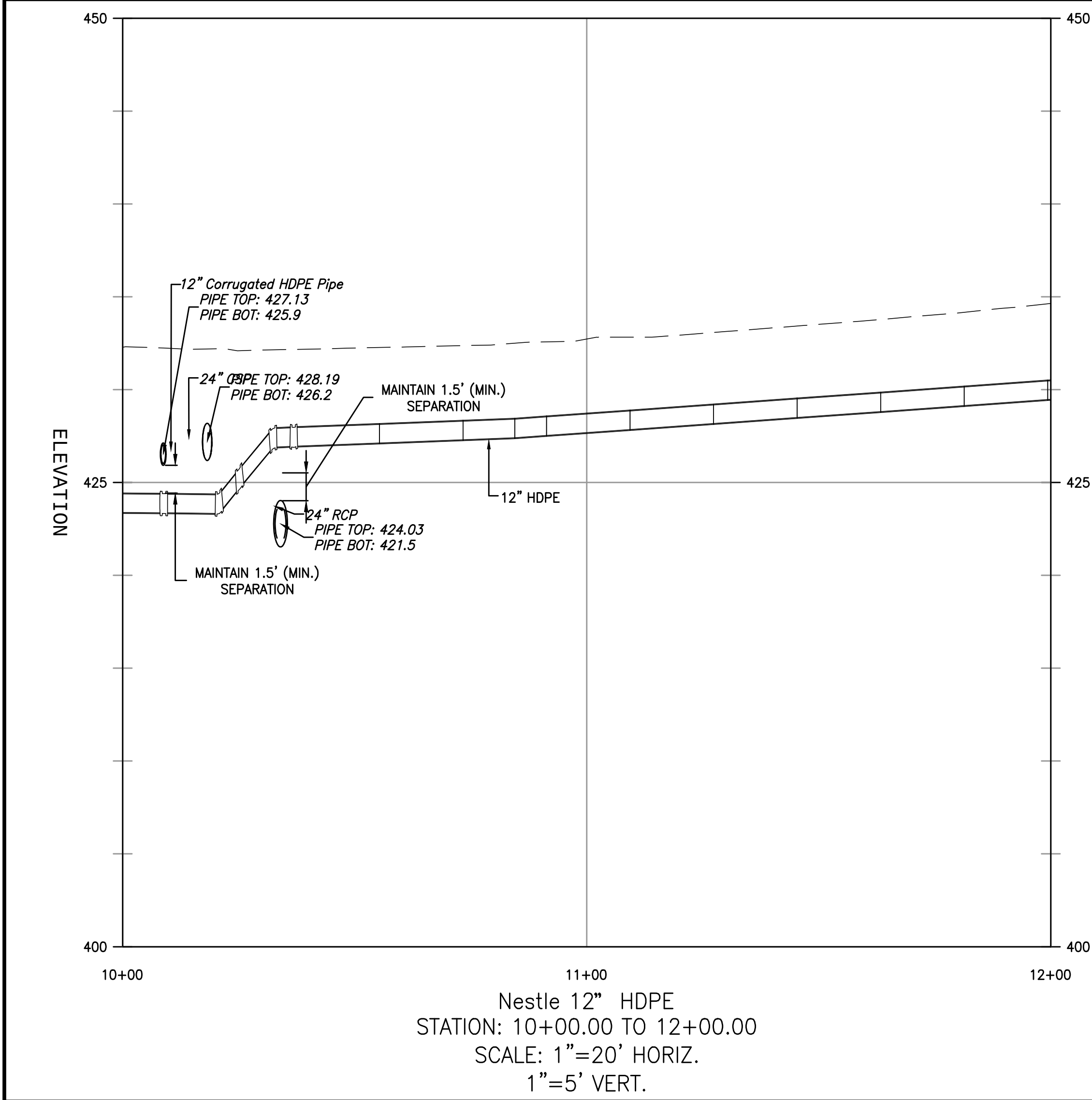
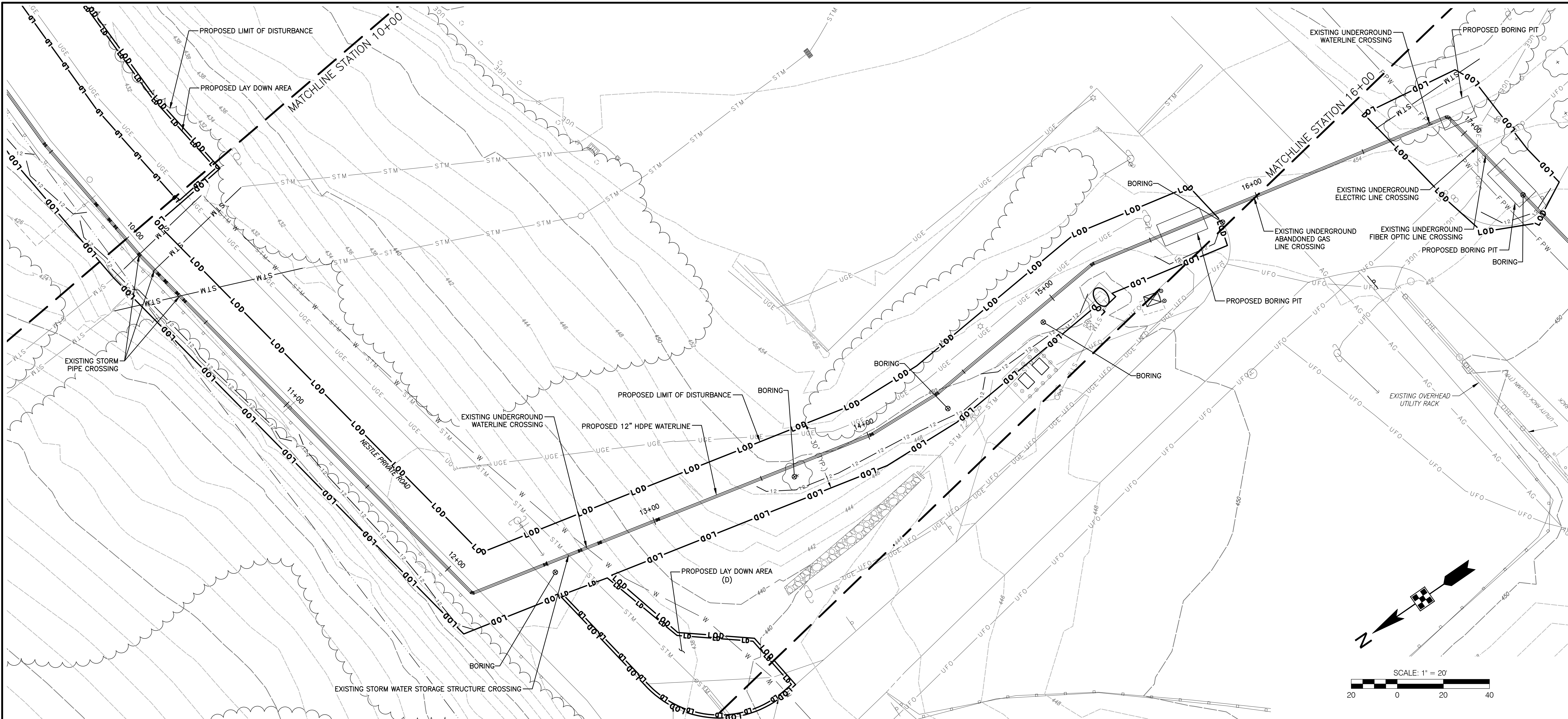
DATE: 06-30-2023
MADE BY: T. MARTIN
SCALE: 1" = 20'
APPROVED BY: S. DONOVAN
PROJECT ENGR: A. YON
PRINTED: 09-13-2023

**NEW MUNICIPAL WATER SERVICE  
NPPC ALLENTOWN, PA FACILITY  
60% DESIGN REVIEW SUBMITTAL  
STA. 4+00 - 10+00**

PLANT: ALLENTOWN, PA	AREA NO. 671
BLOG. NO. 00	DRAWING NUMBER
<b>671-C006-3B</b>	REVISION
	<b>3B</b>



File: G:\PROJECT FILES\GRAPHICS\HA9218 - NESTLE - ALL WATERLINE DESIGN\CAD\DRAWINGS\LAYOUT SHEETS\HA9218 WATER LINE - 60-2 Saved: 6-Sep-23 17:06 By: Sheirize



LAYDOWN AREA:	SQUARE FEET:	ACRES:
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E	14,496	0.33278
<b>TOTAL:</b>	<b>32,527</b>	<b>0.7467</b>

REVISION	BY	APPR	DATE	REVISION	BY	APPR	DATE	REVISION	BY	APPR	DATE
3B				3B	SMH	AMY	09-13-23	3A			
3A				3A	TPM	AMY	06-30-23	2			
2				2	TPM	AMY	05-05-23	1			
1				1	TPM	AMY	03-22-23				

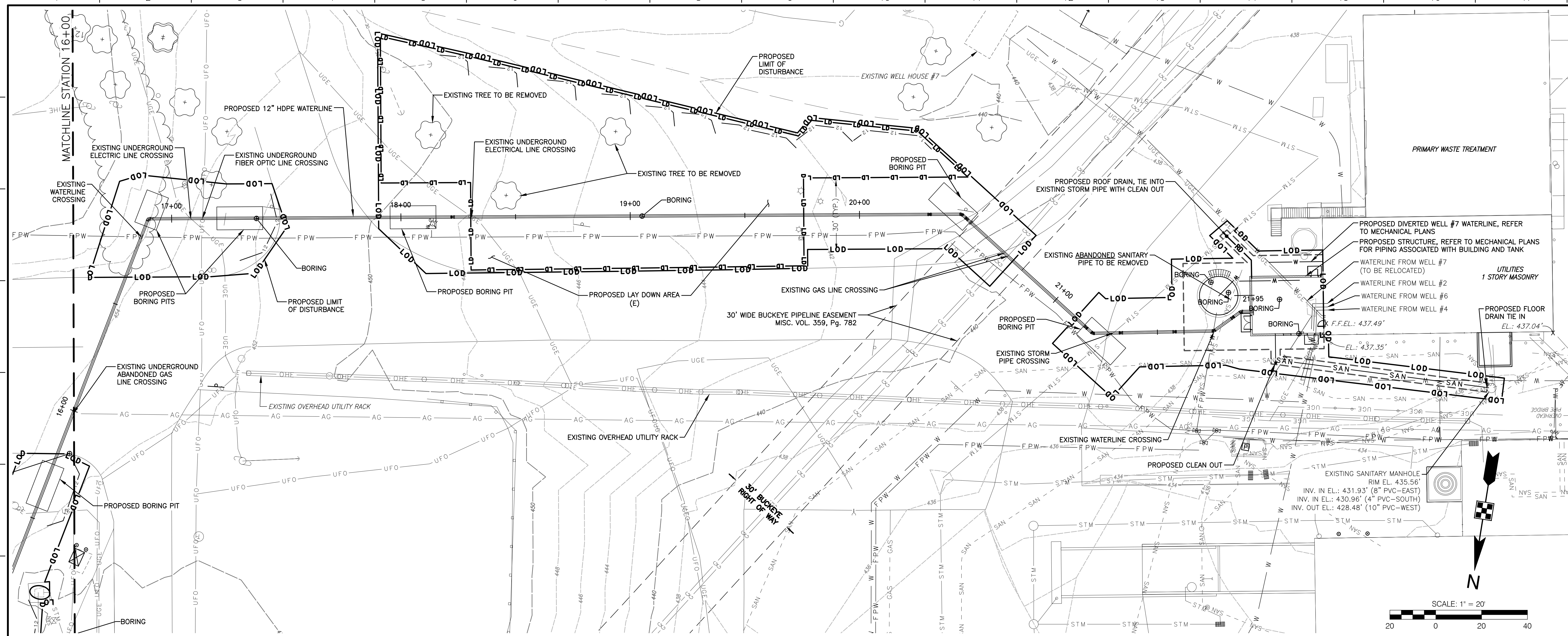
DATE: 06-30-2023  
 MADE BY: T. MARTIN  
 SCALE: 1" = 20'  
 WFO: S. DONOVAN  
 PROJ ENGR: A. YON  
 PRINTED: 09-13-2023

**NEW MUNICIPAL WATER SERVICE  
 NPPC ALLENTOWN, PA FACILITY  
 60% DESIGN REVIEW SUBMITTAL  
 STA. 10+00 - 16+00**

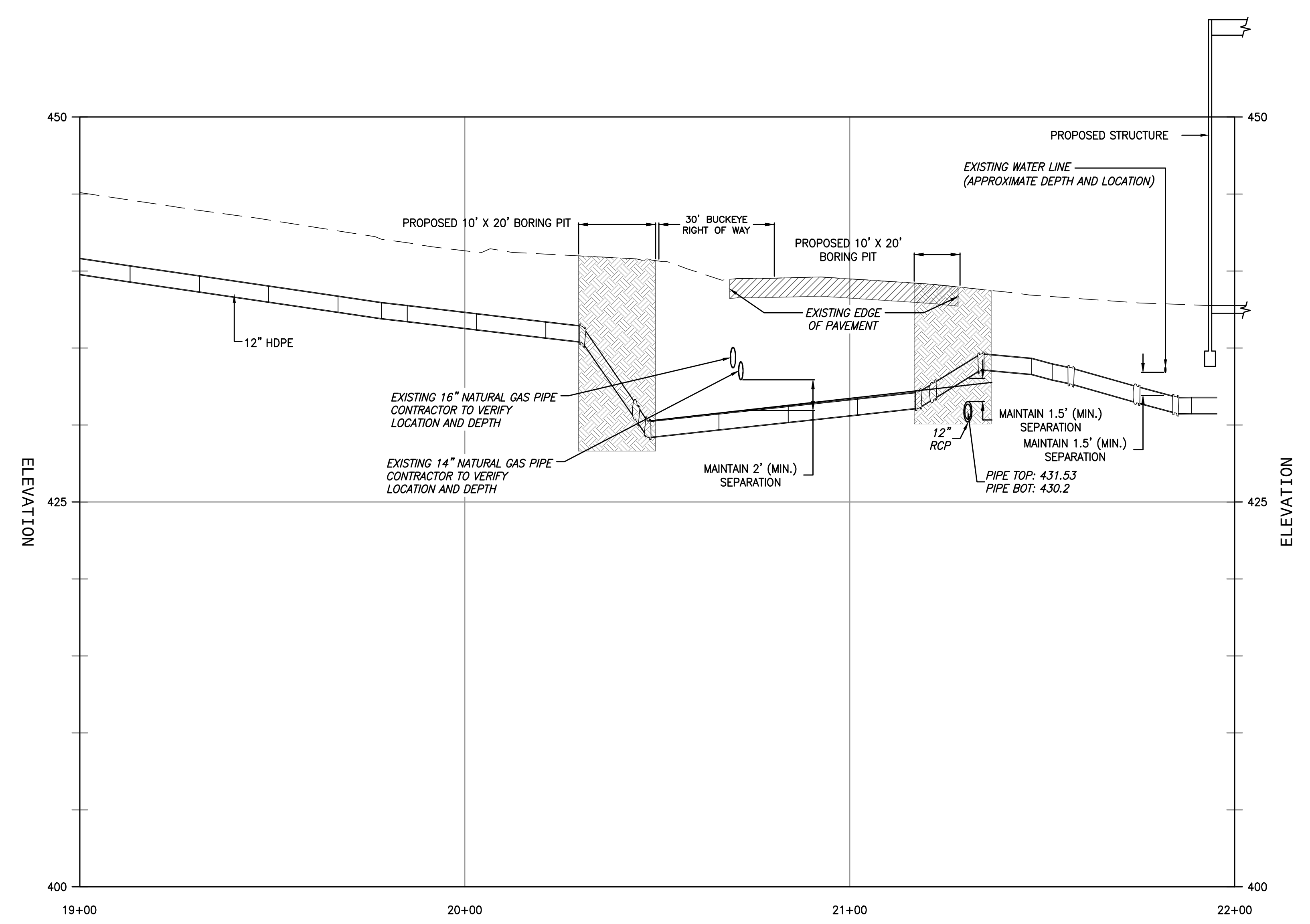
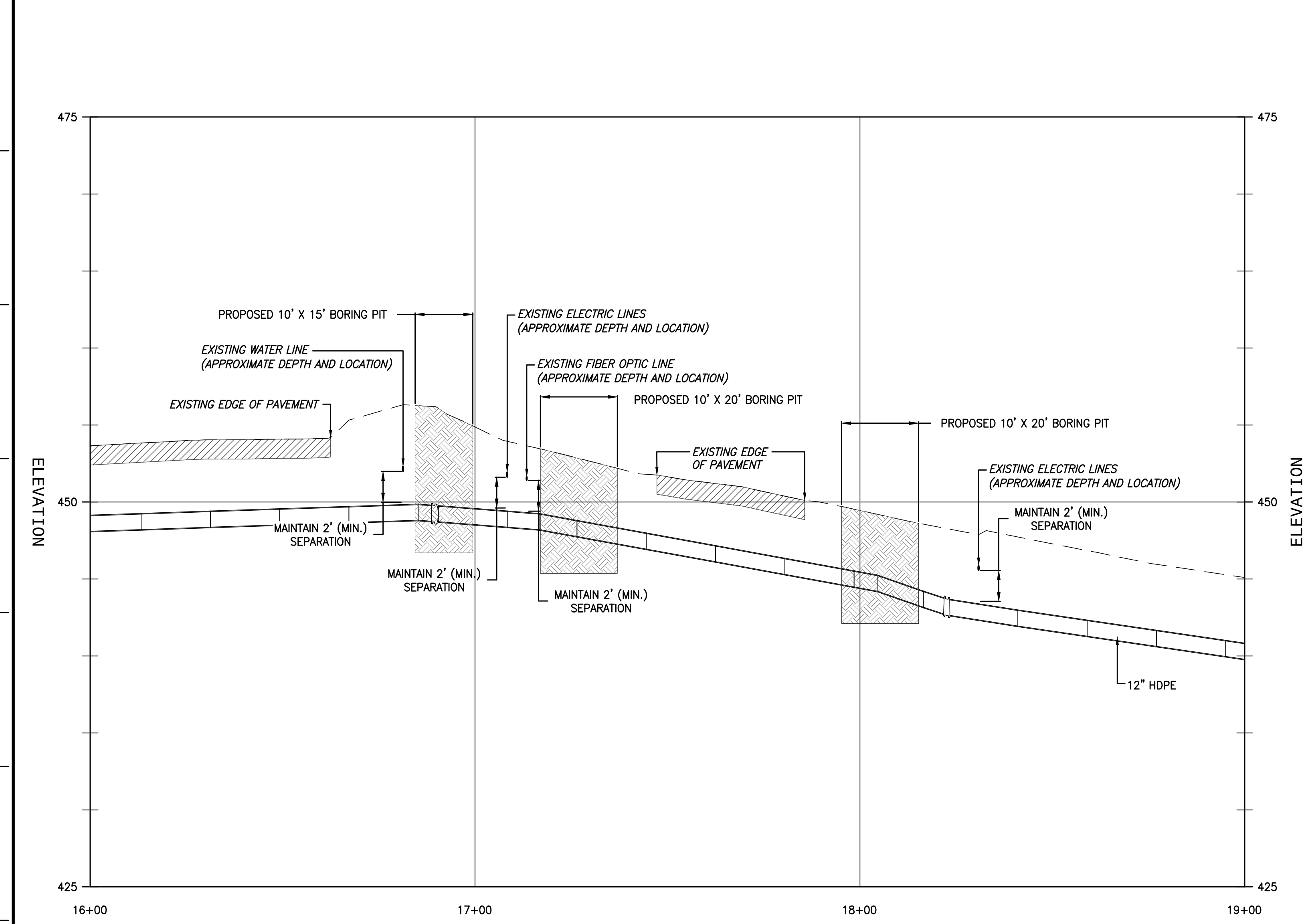
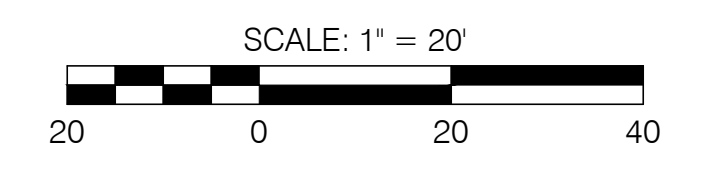
PLANT ALLENTOWN, PA BLOG. NO. 00	AREA NO. 671
DRAWING NUMBER <b>671-C007-3B</b>	REVISION <b>3B</b>



File: G:\PROJECT FILES\GRAPHICS\H9218 - NESTLE - ALL WATERLINE DESIGN\DRAWINGS\LAYOUT SHEETS\H9218 WATER LINE - 60-2 Served: 13-Sep-23 11:24 By: Sheinze



- LEGEND**
- LOD PROPOSED LIMIT OF DISTURBANCE (5.54 ACRES)
  - LD PROPOSED LAYDOWN AREA
  - PROPOSED WATER SERVICE WITH CURB BOX
  - PROPOSED FENCE AT WATER METER STATION
  - PROPOSED TOWNSHIP EASEMENT
  - PROPOSED 12" COMPOST FILTER SOCK
  - PROPOSED STORM WATER INLET PROTECTION
  - PROPOSED SPOILS AREA LIMITS
  - PROPOSED STOCKPILE AREA LIMITS
  - EXISTING EASEMENT LINE
  - APPROXIMATE PROPERTY LINE
  - EXISTING SIGN
  - EXISTING FENCE
  - EXISTING GUIDERAIL
  - EXISTING NATURAL GAS LINE
  - ABANDONED NATURAL GAS PIPE
  - EXISTING UNDERGROUND FIBEROPTIC
  - EXISTING TELEPHONE/COMMUNICATIONS
  - EXISTING UNDERGROUND ELECTRIC
  - STM EXISTING STORM WATER PIPE
  - SAN EXISTING SANITARY PIPE
  - W EXISTING WATERLINE
  - F.P.W EXISTING FIRE PROTECTION WATERLINE
  - EXISTING WATER SUPPLY WELL
  - EXISTING FIRE HYDRANT
  - EXISTING WATER VALVE
  - EXISTING POST INDICATOR VALVE
  - EXISTING ELECTRIC BOX
  - EXISTING UTILITY POLE
  - EXISTING LIGHT POST
  - EXISTING MECHANICAL PUMP
  - EXISTING STORM INLET

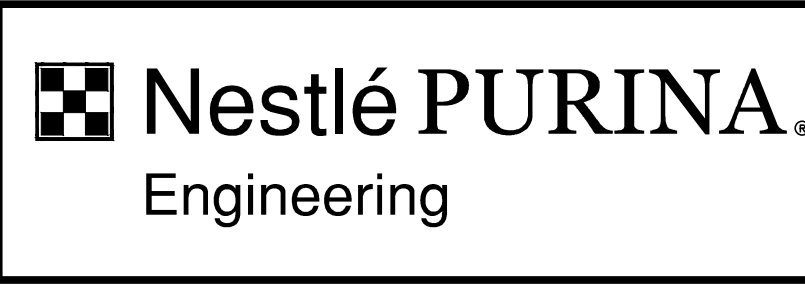


LAYDOWN AREA:	SQUARE FEET:	ACRES:
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REVISION	BY	APPR	DATE	REVISION	BY	APPR	DATE	REVISION	BY	APPR	DATE
3B				60% DESIGN REVIEW SUBMITTAL	SMH	AMY	09-13-23				
3A				60% DESIGN REVIEW SUBMITTAL	TPM	AMY	06-30-23				
2				REVIEW SUBMITTAL	TPM	AMY	05-05-23				
1				30% DESIGN SUBMITTAL	TPM	AMY	03-22-23				

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DATE: 08-31-2023  
 MADE BY: SMH  
 SCALE: 1" = 20'  
 BY: S. DONOVAN  
 ENGR: A. YON  
 PRINTED: 09-13-2023

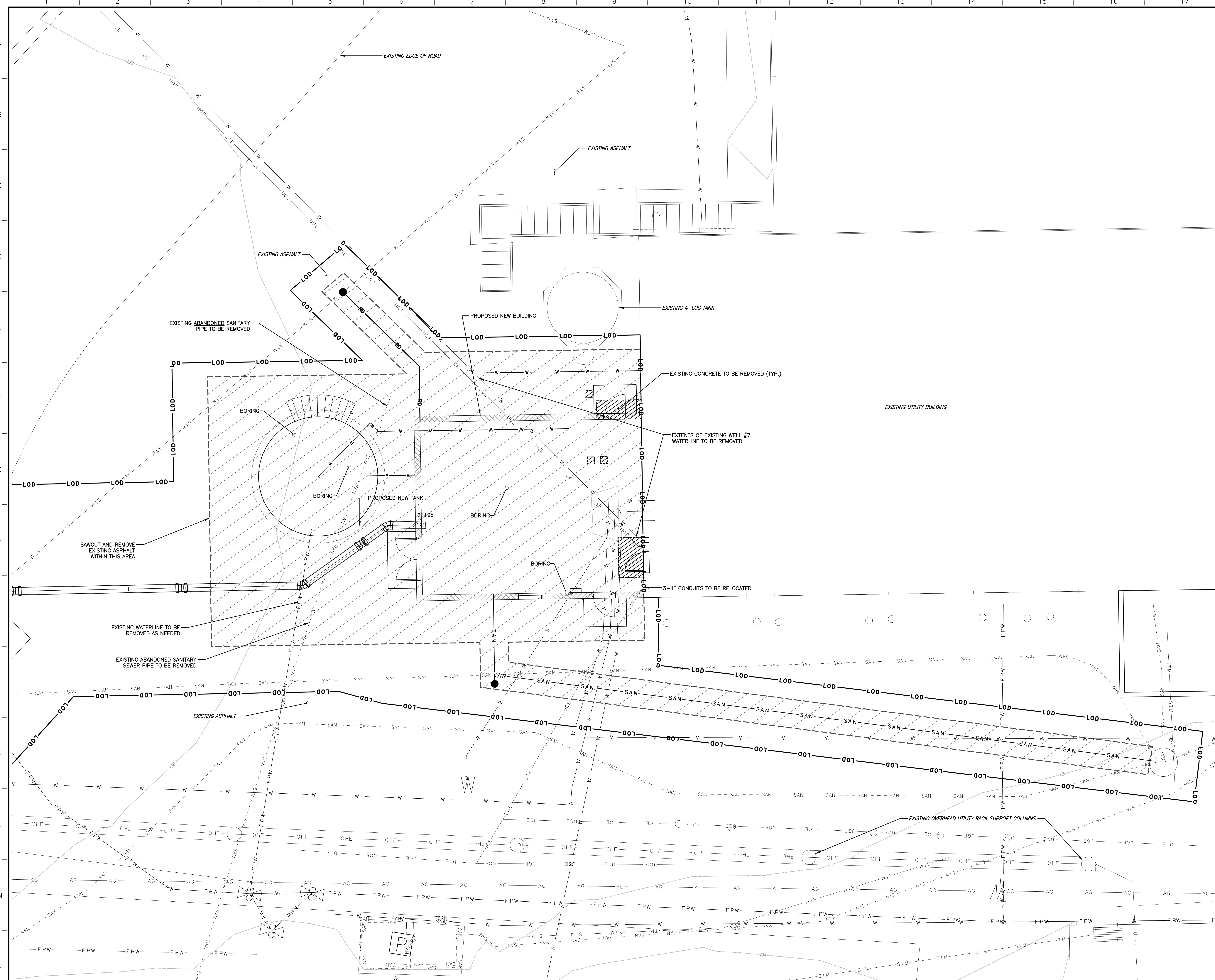


**NEW MUNICIPAL WATER SERVICE**  
**NPPC ALLENTOWN, PA FACILITY**  
**60% DESIGN REVIEW SUBMITTAL**  
**STA. 16+00 - 22+00**

PLANT: ALLENTOWN, PA	AREA NO. 671
BLOG. NO. 00	
DRAWING NUMBER: <b>671-C008-3B</b>	REVISION: <b>3B</b>

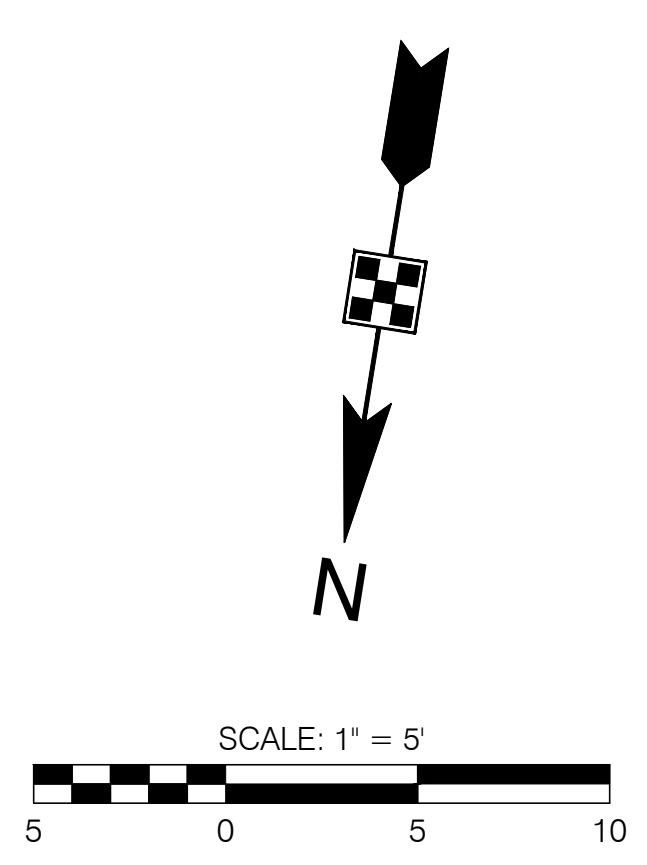


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**LEGEND**

	PROPOSED LIMIT OF DISTURBANCE (5.54 ACRES)
	PROPOSED LAYDOWN AREA
	PROPOSED FENCE AT WATER METER STATION
	PROPOSED TOWNSHIP EASEMENT
	PROPOSED 12" COMPOST FILTER SOCK
	PROPOSED STORM WATER INLET PROTECTION
	PROPOSED SPOILS AREA LIMITS
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	EXISTING FIRE PROTECTION WATERLINE
	EXISTING WATER SUPPLY WELL
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	EXISTING POST INDICATOR VALVE
	EXISTING UTILITY BOX
	EXISTING ELECTRIC POLE
	EXISTING LIGHT POST
	EXISTING MECHANICAL PUMP
	EXISTING STORM INLET

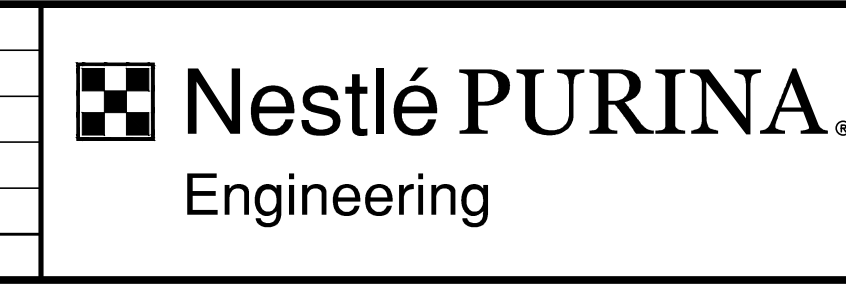


REVISION	BY	APPR BY	DATE	REVISION	BY	APPR BY	DATE
3B							
3A							
2							
1							

3B	60% DESIGN REVIEW SUBMITTAL	SMH	AMY	09-13-23
3A	60% DESIGN REVIEW SUBMITTAL	TPM	AMY	06-30-23
2	REVIEW SUBMITTAL	TPM	AMY	05-05-23
1	DESIGN SUBMITTAL	TPM	AMY	03-22-23

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XXXX-DXXXX	
REFERENCE DRAWINGS	



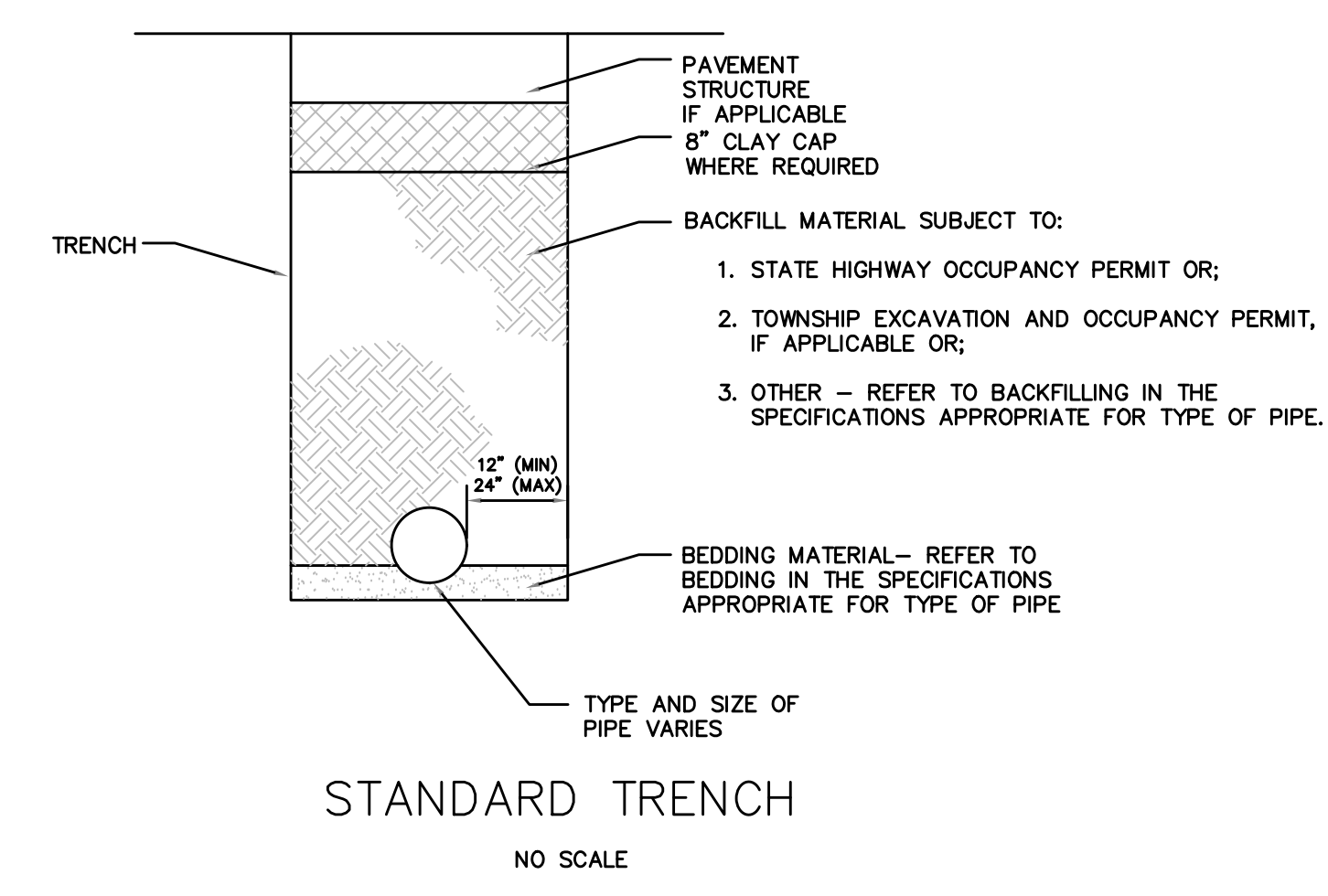
DATE	06-30-2023
MADE BY	T. MARTIN
SCALE	1" = 5'
APPROVED BY	S. DONOVAN
PROJECT ENGR	A. YON
PRINTED	09-13-2023

**NEW MUNICIPAL WATER SERVICE  
NPCC ALLENTOWN, PA FACILITY  
60% DESIGN REVIEW SUBMITTAL  
DEMOLITION PLAN**

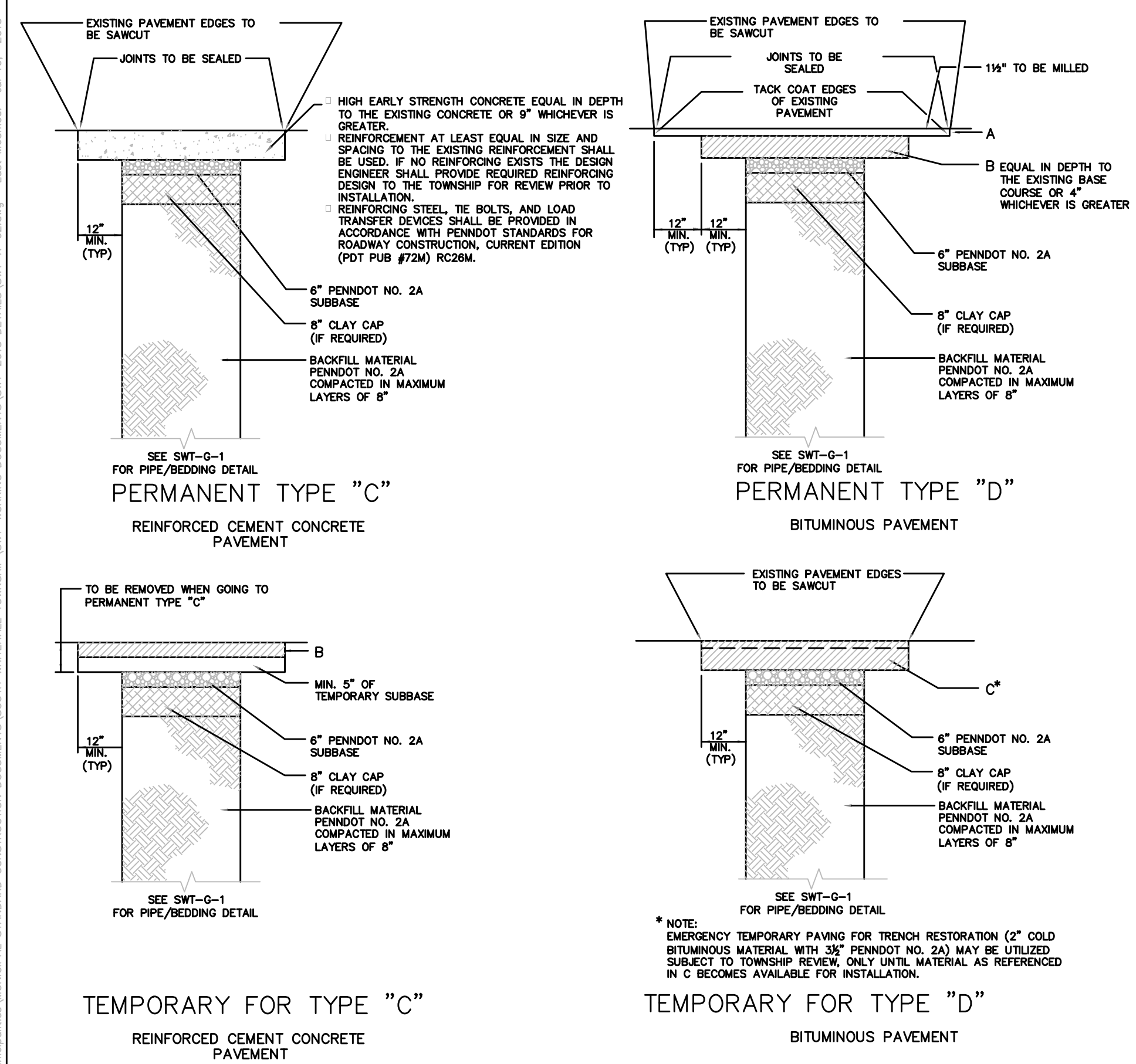
PLANT	ALLENTOWN, PA	AREA NO.	671
BLOG. NO.	00		
DRAWING NUMBER	671-C009-3B	REVISION	3B



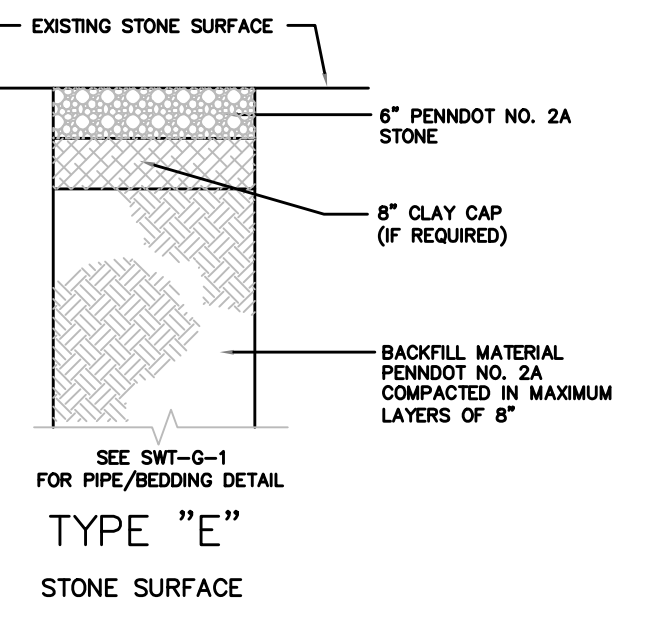
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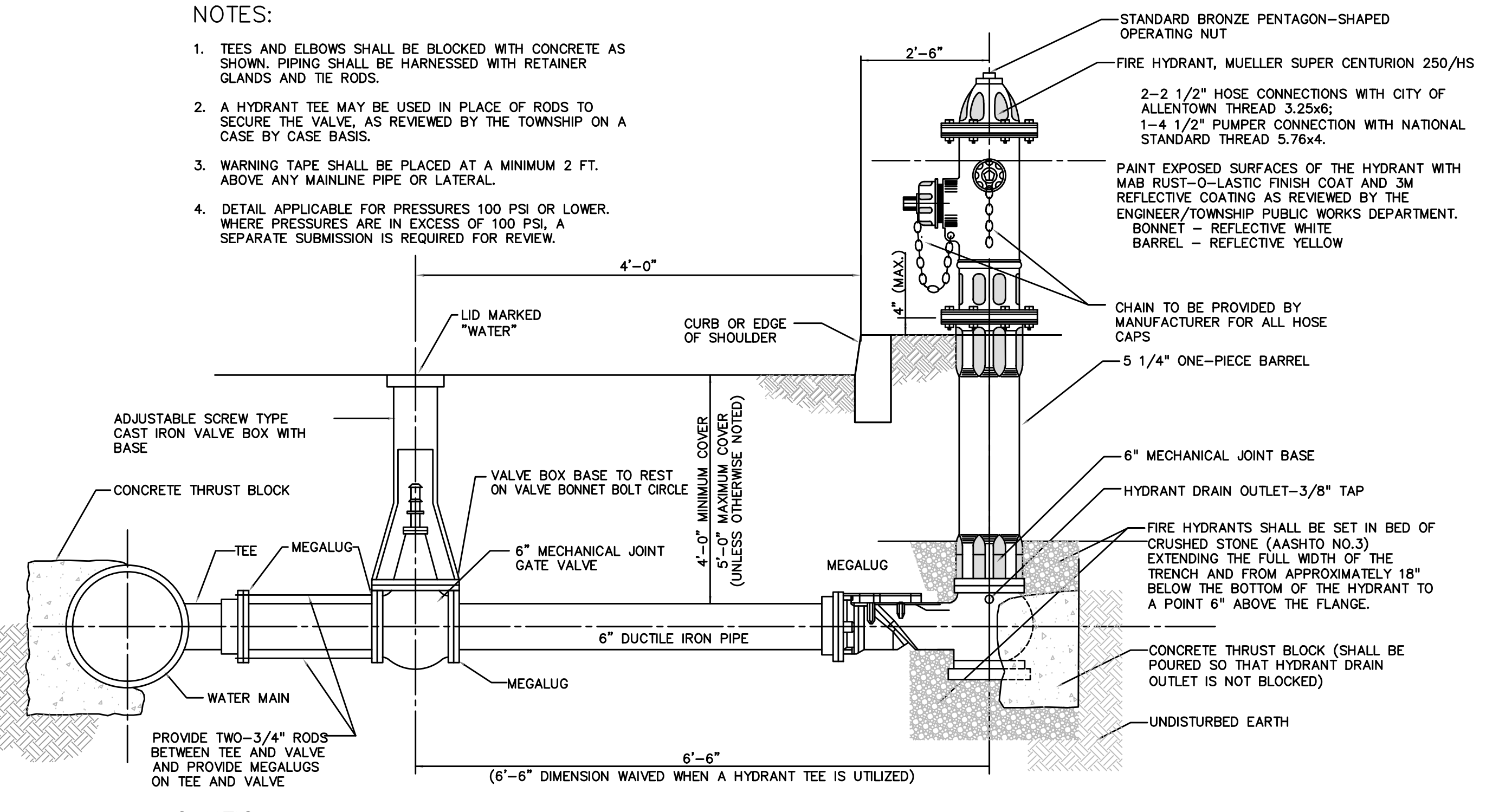
REVISIONS	SOUTH WHITEHALL TOWNSHIP STANDARD CONSTRUCTION DETAILS LEHIGH COUNTY, PENNSYLVANIA
GENERAL CONSTRUCTION	
STANDARD TRENCH	
DATE: JULY 2023	BY: SWT-G-1
SCALE: NO SCALE	



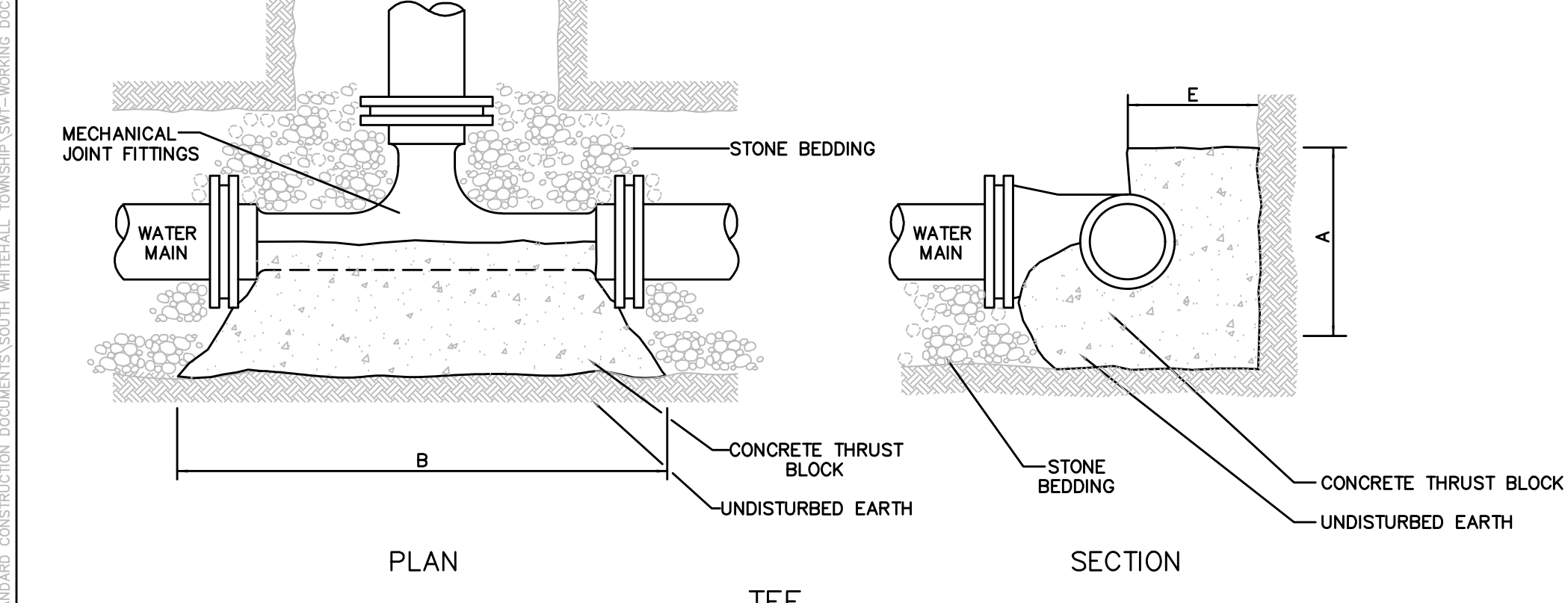
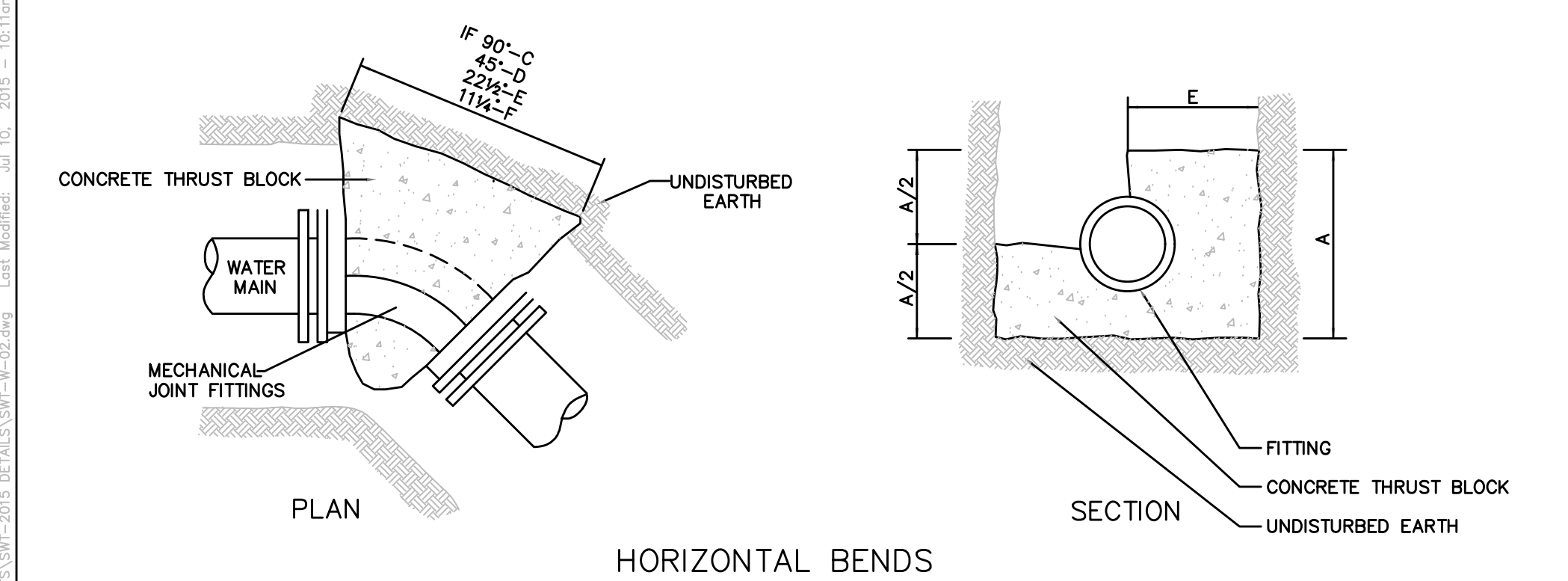
REVISIONS	SOUTH WHITEHALL TOWNSHIP STANDARD CONSTRUCTION DETAILS LEHIGH COUNTY, PENNSYLVANIA
GENERAL CONSTRUCTION	
NON-STATE HIGHWAY PAVEMENT RESTORATION	
DATE: JULY 2023	BY: SWT-R-2
SCALE: NO SCALE	



REVISIONS	SOUTH WHITEHALL TOWNSHIP STANDARD CONSTRUCTION DETAILS LEHIGH COUNTY, PENNSYLVANIA
GENERAL CONSTRUCTION	
NON-STATE HIGHWAY PAVEMENT RESTORATION	
DATE: JULY 2023	BY: SWT-R-2
SCALE: NO SCALE	



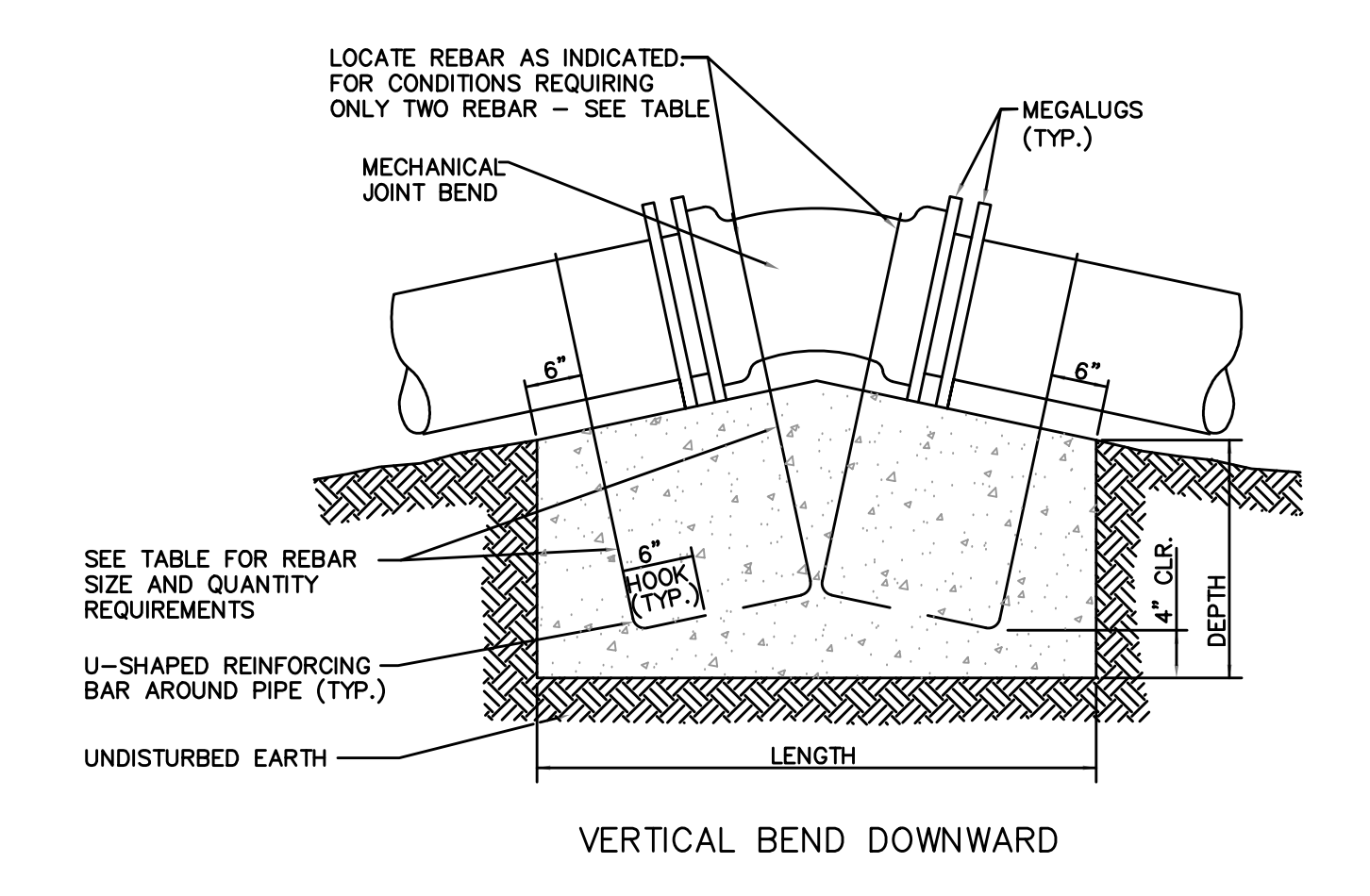
REVISIONS	SOUTH WHITEHALL TOWNSHIP AUTHORITY STANDARD CONSTRUCTION DETAILS LEHIGH COUNTY, PENNSYLVANIA
GENERAL CONSTRUCTION	
FIRE HYDRANT	
DATE: JULY 2023	BY: SWT-W-1
SCALE: NO SCALE	



REVISIONS	SOUTH WHITEHALL TOWNSHIP AUTHORITY STANDARD CONSTRUCTION DETAILS LEHIGH COUNTY, PENNSYLVANIA
GENERAL CONSTRUCTION	
HORIZONTAL THRUST BLOCKS	
DATE: JULY 2023	BY: SWT-W-2
SCALE: NO SCALE	

PIPE SIZE	MINIMUM DIMENSIONS					
	A	B	C	D	E	F
24"	4'-6"	7'-2"	8'-10"	5'-9"	3'-0"	1'-1"
20"	4'-0"	6'-8"	8'-4"	5'-3"	2'-6"	1'-5"
16"	3'-4"	5'-5"	7'-10"	4'-3"	2'-1"	1'-3"
10"-12"	2'-6"	4'-3"	6'-0"	3'-3"	1'-7"	1'-0"
8"	1'-8"	3'-0"	4'-3"	2'-4"	1'-2"	1'-0"
6"	1'-3"	2'-2"	3'-4"	1'-10"	1'-0"	1'-0"
3"	1'-0"	2'-0"	3'-0"	1'-6"	1'-0"	1'-0"

THRUST BLOCK DIMENSIONS FOR PIPE 20" AND LARGER ARE APPLICABLE ONLY TO PRESSURE BELOW 100 PSI.  
DESIGN CALCULATIONS SHALL BE PROVIDED FOR ANY OTHER SIZES NOT LISTED.  
DIMENSIONS IDENTIFIED ABOVE ARE MINIMUM REQUIREMENTS. THE DESIGN ENGINEER SHALL REVIEW THE ADEQUACY OF THE NOTED DIMENSIONS AND INCREASE DIMENSIONS AS NEEDED BASED ON THE SPECIFIC SITE DESIGN CONDITIONS.



PIPE SIZES	LENGTH						WIDTH						DEPTH						REBAR															
	11'1/4"	22'1/2"	45"	11'1/4"	22'1/2"	45"	11'1/4"	22'1/2"	45"	11'1/4"	22'1/2"	45"	2-#4	2-#4	2-#5	2-#4	2-#4	2-#5	2-#4	2-#4	2-#5	2-#4	2-#4	2-#5	2-#4	2-#4	2-#5	2-#4	2-#4	2-#5				
4", 6" & 8"	4'	6'	3'	3'	3'	2'	3'	4'	2'-#4	2'-#4	2'-#5	2'-#4	2'-#4	2'-#5	2'-#4	2'-#4	2'-#5	2'-#4	2'-#4	2'-#5	2'-#4	2'-#4	2'-#5	2'-#4	2'-#4	2'-#5	2'-#4	2'-#4	2'-#5	2'-#4	2'-#4	2'-#5		
12"	4.5'	6'	3'	3'	3'	4.5'	5'	2'-#4	2'-#4	2'-#5	2'-#4	2'-#4	2'-#5	2'-#4	2'-#4	2'-#5	2'-#4	2'-#4	2'-#5	2'-#4	2'-#4	2'-#5	2'-#4	2'-#4	2'-#5	2'-#4	2'-#4	2'-#5	2'-#4	2'-#4	2'-#5	2'-#4	2'-#4	2'-#5
16"	6'	11'	3.5'	3.5'	3.5'	5'	5'	2'-#5	4'-#5	6'-#5	2'-#5	4'-#5	6'-#5	2'-#5	4'-#5	6'-#5	2'-#5	4'-#5	6'-#5	2'-#5	4'-#5	6'-#5	2'-#5	4'-#5	6'-#5	2'-#5	4'-#5	6'-#5	2'-#5	4'-#5	6'-#5	2'-#5	4'-#5	6'-#5
20"	7'	9'	13'	4'	5'	5.5'	4'	5'	6'	3'-#5	6'-#5	6'-#7	3'-#5	6'-#5	6'-#7	3'-#5	6'-#5	6'-#7	3'-#5	6'-#5	6'-#7	3'-#5	6'-#5	6'-#7	3'-#5	6'-#5	6'-#7	3'-#5	6'-#5	6'-#7	3'-#5	6'-#5	6'-#7	

DESIGN CALCULATIONS SHALL BE PROVIDED FOR ANY OTHER SIZES NOT LISTED.  
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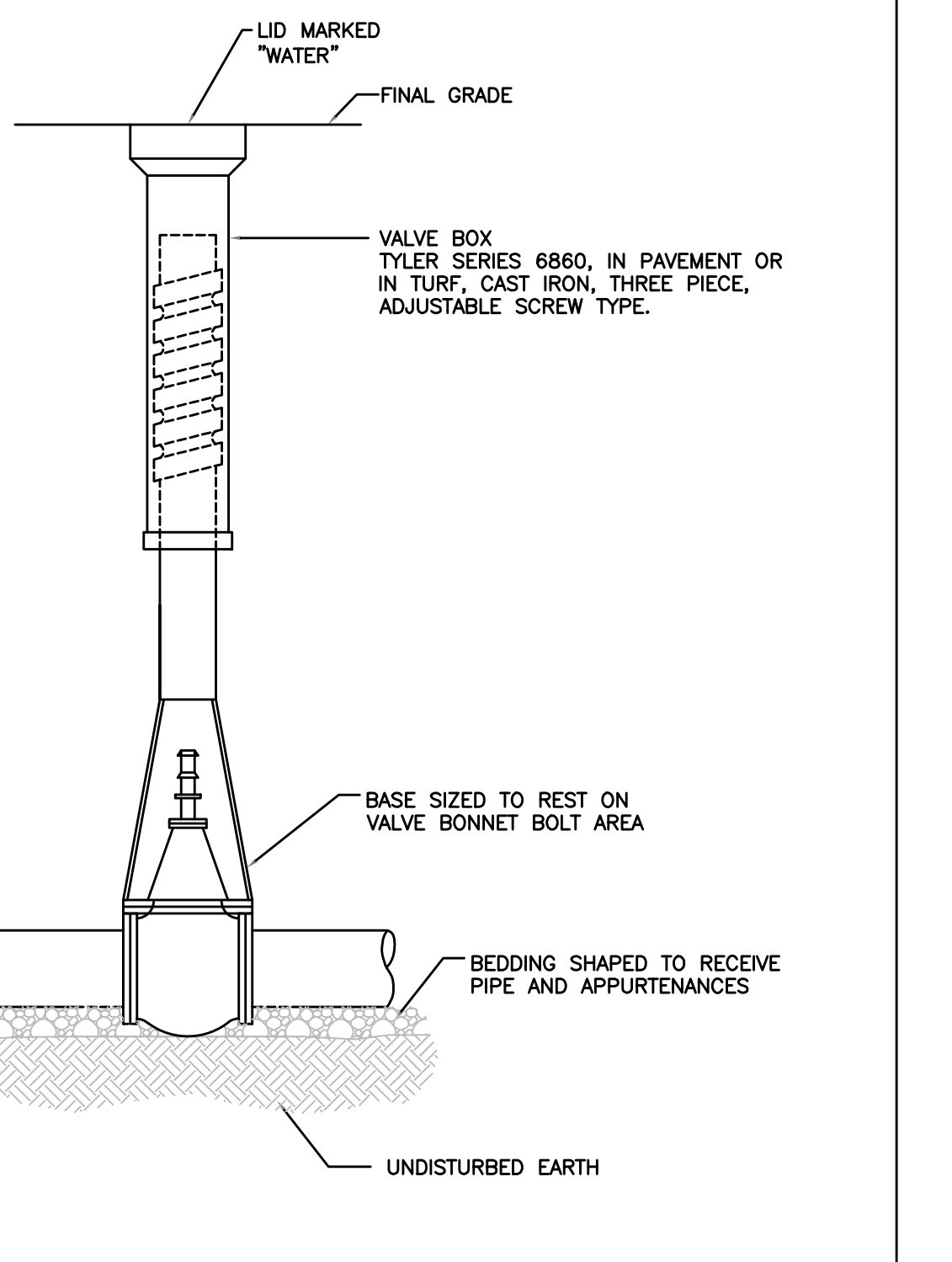
CAUTION: WHEN PIPING SYSTEMS ARE PRESSURE TESTED, IT IS EXTREMELY IMPORTANT AND ESSENTIAL THAT ALL PLUGS INCLUDING TEST PLUGS AND ALL PIPE JOINTS ARE INSTALLED AND RESTRAINED IN SUCH A WAY THAT BLOWOUTS ARE PREVENTED. IT MUST BE REALIZED THAT SUDDEN EXPULSION OF A POORLY INSTALLED PLUG OR SECTION OF PIPE OR OF A TEST PLUG WHICH IS PARTIALLY DEFLATED BEFORE THE PIPE PRESSURE IS RELEASED CAN BE VERY DANGEROUS. FOR THIS REASON IT IS RECOMMENDED THAT EVERY PLUG AND PIPE JOINT BE POSITIVELY BRACED OR OTHERWISE RESTRAINED DURING PRESSURE TESTING AND THAT NO ONE BE ALLOWED IN A MANHOLE ADJOINING A LINE BEING TESTED OR IN THE VICINITY OF AN EXPOSED PLUG OR PIPE SO LONG AS PRESSURE IS MAINTAINED IN THE LINE.

REVISIONS	SOUTH WHITEHALL TOWNSHIP AUTHORITY STANDARD CONSTRUCTION DETAILS LEHIGH COUNTY, PENNSYLVANIA
GENERAL CONSTRUCTION	
VERTICAL THRUST BLOCKS	
DATE: JULY 2023	BY: SWT-W-3
SCALE: NO SCALE	

NOTES:  
1. GATE VALVES SHALL BE IRON BODY, BRONZE MOUNTED VALVES, WITH MECHANICAL JOINT ENDS, NON-RISING STEM. VALVES SHALL OPEN IN A CLOCKWISE DIRECTION AND SHALL BE 200 PSI WORKING PRESSURE RESILIENT-WEDGE GATE VALVES MODEL A-2282 (MANLINE) OR T-2282 (TAPPING) AS MANUFACTURED BY MUELLER. ALL GATE VALVES SHALL CONFORM TO AWWA SPECIFICATION C509.  
2. WHEN APPROVED BY THE ENGINEER, A DEEP VALVE, WHICH WOULD NOT PERMIT THE USE OF THE 6860 SERIES VALVE BOXES, SHALL HAVE A PERMANENT EXTENSION ATTACHED. THE EXTENSION SHALL BE APPROVED BY THE ENGINEER AND ENABLE THE OPERATION OF THE DEEP VALVE BY USING A STANDARD SIX-FOOT VALVE KEY.  
3. BOXES SHALL BE SET TO ALLOW EQUAL MOVEMENT ABOVE AND BELOW FINAL GRADE.  
4. TAPPING SLEEVES AND VALVES:  
TAPPING SLEEVES SHALL BE FABRICATED OF DUCTILE IRON AND SHALL HAVE A MECHANICAL JOINT BODY, A FLANGED OUTLET END AND A 3/8 INCH NPT TEST PLUG. TAPPING SLEEVES SHALL BE MUELLER CO. MODELS H-615 THROUGH H-619, AS APPROPRIATE, BASED UPON THE SIZE AND TYPE OF THE EXISTING MAIN, OR EQUAL. THE SLEEVE SHALL HAVE A 3/8 INCH TAP TO PERMIT PRESSURE TESTING OF THE ASSEMBLY AT 100 PSI (MINIMUM) FOR 15 MINUTES WITHOUT LEAKAGE, BEFORE TAPPING THE MAIN.  
TAPPING VALVES SHALL BE RESILIENT-WEDGE GATE VALVES AND SHALL HAVE A FLANGED INLET AND A SPECIALIZED MECHANICAL JOINT OUTLET TO PERMIT CONNECTION TO DRILLING EQUIPMENT.  
5. DETAIL APPLICABLE FOR PRESSURES 100 PSI OR LOWER. WHERE PRESSURES ARE IN EXCESS OF 100 PSI, A SEPARATE SUBMISSION IS REQUIRED FOR REVIEW.

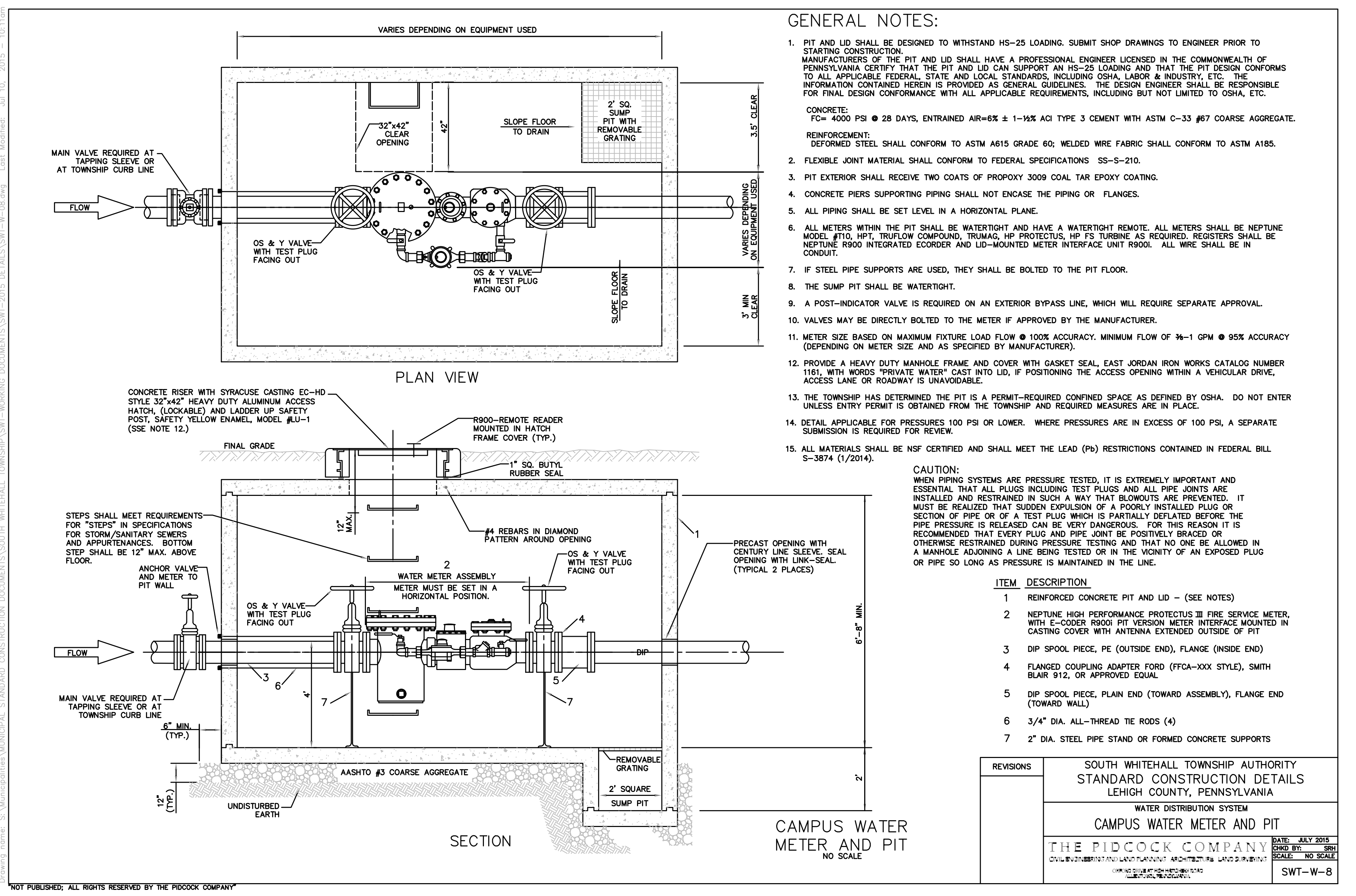
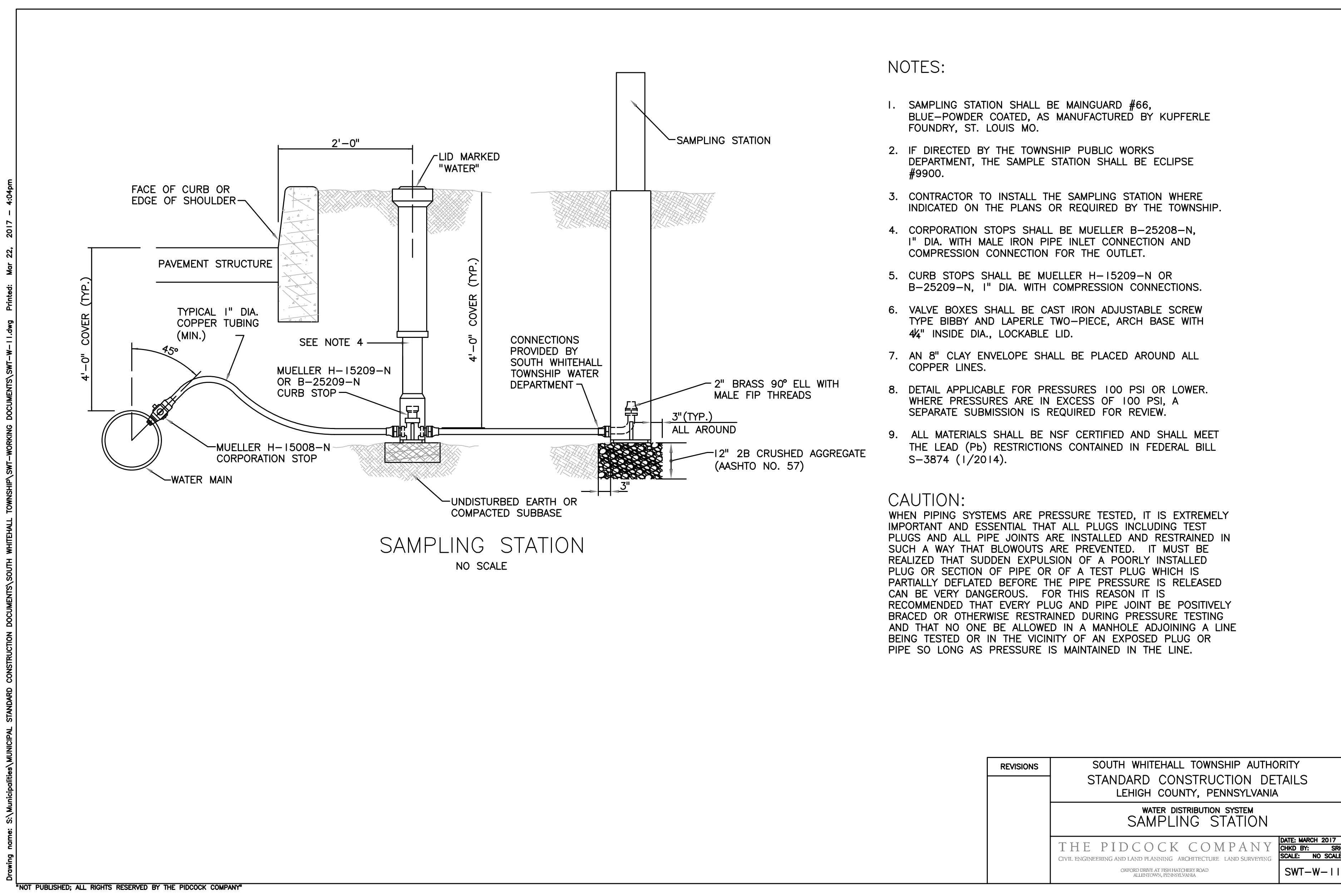
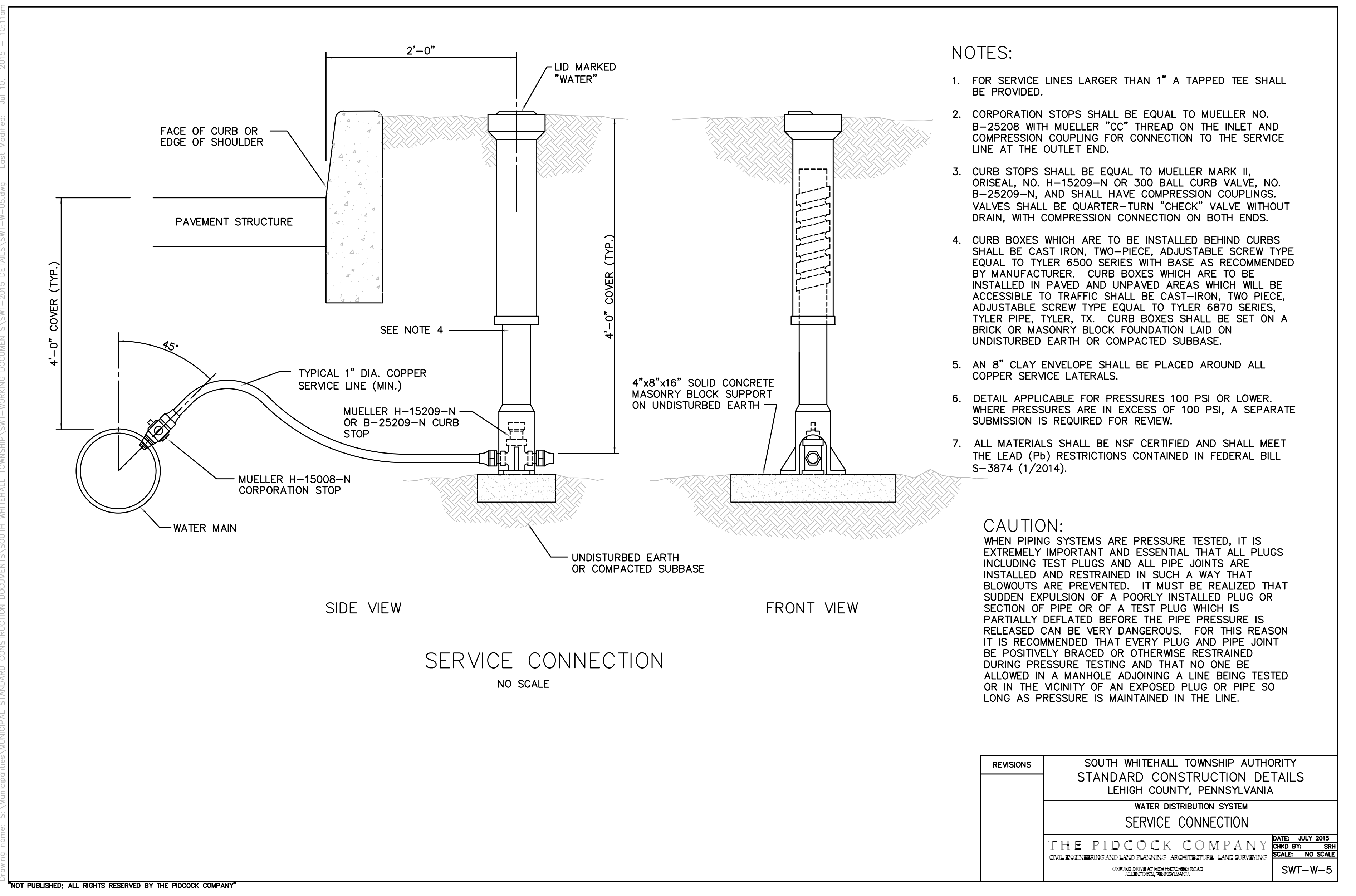
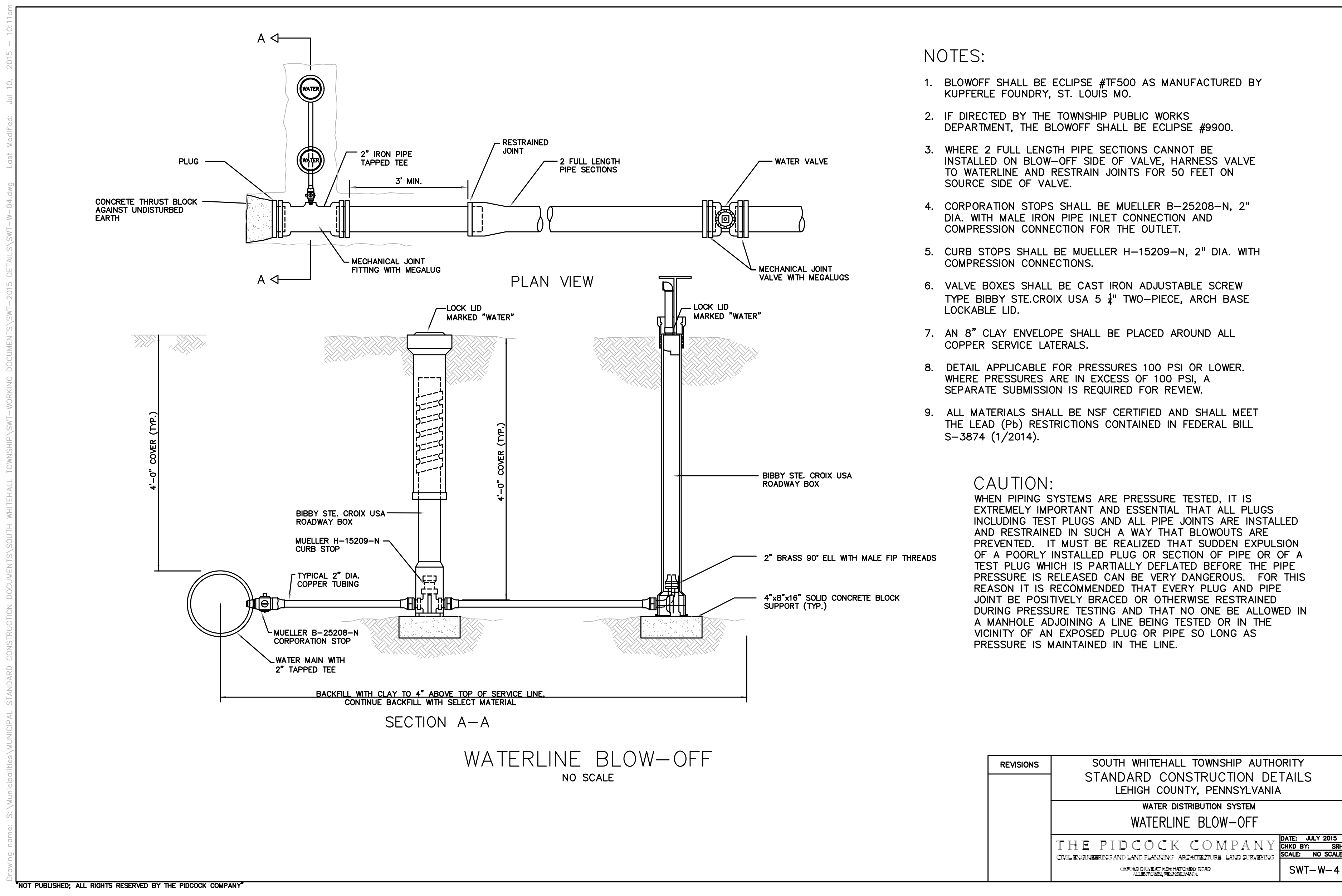
CAUTION: WHEN PIPING SYSTEMS ARE PRESSURE TESTED, IT IS EXTREMELY IMPORTANT AND ESSENTIAL THAT ALL PLUGS INCLUDING TEST PLUGS AND ALL PIPE JOINTS ARE INSTALLED AND RESTRAINED IN SUCH A WAY THAT BLOWOUTS ARE PREVENTED. IT MUST BE REALIZED THAT SUDDEN EXPULSION OF A POORLY INSTALLED PLUG OR SECTION OF PIPE OR OF A TEST PLUG WHICH IS PARTIALLY DEFLATED BEFORE THE PIPE PRESSURE IS RELEASED CAN BE VERY DANGEROUS. FOR THIS REASON IT IS RECOMMENDED THAT EVERY PLUG AND PIPE JOINT BE POSITIVELY BRACED OR OTHERWISE RESTRAINED DURING PRESSURE TESTING AND THAT NO ONE BE ALLOWED IN A MANHOLE ADJOINING A LINE BEING TESTED OR IN THE VICINITY OF AN EXPOSED PLUG OR PIPE SO LONG AS PRESSURE IS MAINTAINED IN THE LINE.

REVISIONS	SOUTH WHITEHALL TOWNSHIP AUTHORITY STANDARD CONSTRUCTION DETAILS LEHIGH COUNTY, PENNSYLVANIA
GENERAL CONSTRUCTION	
VALVE AND VALVE BOX	
DATE: JULY 2023	BY: SWT-W-6
SCALE: NO SCALE	



REVISIONS	SOUTH WHITEHALL TOWNSHIP AUTHORITY STANDARD CONSTRUCTION DETAILS LEHIGH COUNTY, PENNSYLVANIA
GENERAL CONSTRUCTION	
VALVE AND VALVE BOX	
DATE: JULY 2023	BY: SWT-W-6
SCALE: NO SCALE	





3B	BOX DESIGN	SMH	AMY	09-13-23	NOTICE - THIS DRAWING AND ALL DESIGNS, DETAILS, INVENTIONS OR DEVELOPMENTS COVERED THEREBY ARE CONFIDENTIAL AND THE EXCLUSIVE PROPERTY OF NESTLE PURINA PRECARE COMPANY WHICH RESERVES ALL PATENT OR OTHER RIGHTS. COPYING, REPRODUCTION OR PUBLICATION, IN WHOLE OR IN PART, IS FORBIDDEN UNLESS EXPRESSLY AUTHORIZED BY NESTLE PURINA PRECARE COMPANY. ANY SUCH COPIES SHALL BE THE EXCLUSIVE PROPERTY OF THE NESTLE PURINA PRECARE COMPANY. THIS DRAWING AND ANY SUCH COPIES SHALL BE RETURNED WHEN REQUESTED AND USED SUBJECT TO ABOVE CONDITIONS ONLY ON AUTHORIZED COMPANY WORK.	XXX-DXXXX	DATE: 06-30-2023 MADE BY: T. MARTIN SCALE: 1" = 20' PROJ: S. DONOVAN ENGR: A. YON PRINTED: 09-13-2023	NEW MUNICIPAL WATER SERVICE NPPC ALLENTOWN, PA FACILITY 60% DESIGN REVIEW SUBMITTAL DETAILS SHEET	PLANT: ALLENTOWN, PA BLDG. NO. 00 AREA NO. 671 DRAWING NUMBER: 671-C011-3B	REVISION: 3B
3A	REVIEW SUBMITTAL	TPM	AMY	06-30-23						
2	REVIEW SUBMITTAL	TPM	AMY	05-05-23						
1	REVIEW SUBMITTAL	TPM	AMY	03-22-23						
	DESIGN SUBMITTAL	TPM	AMY	03-22-23						

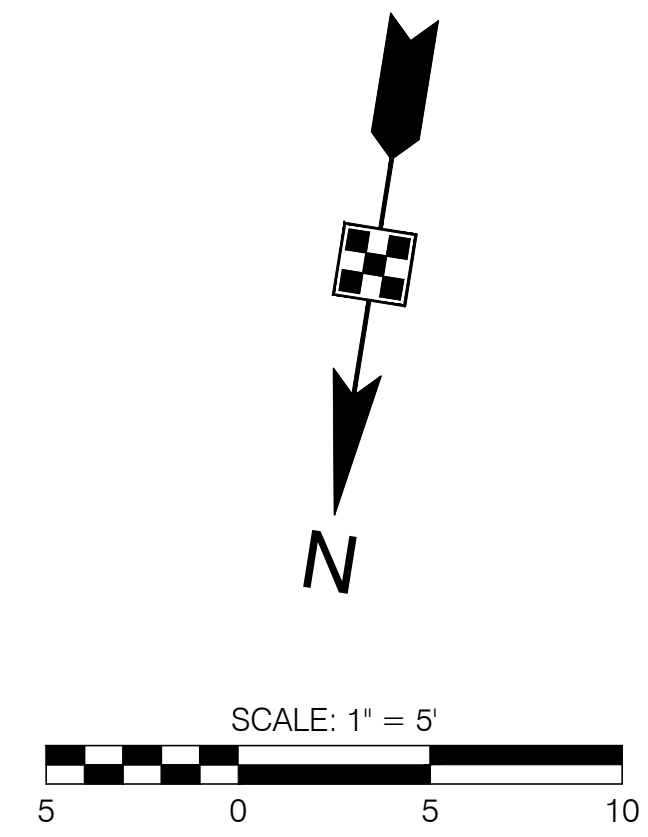


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**LEGEND**

	PROPOSED LIMIT OF DISTURBANCE (5.54 ACRES)
	PROPOSED LAYDOWN AREA
	PROPOSED FENCE AT WATER METER STATION
	PROPOSED TOWNSHIP EASEMENT
	PROPOSED 12" COMPOST FILTER SOCK
	PROPOSED STORM WATER INLET PROTECTION
	PROPOSED SPOILS AREA LIMITS
	PROPOSED STOCKPILE AREA LIMITS
	EXISTING EASEMENT LINE
	APPROXIMATE PROPERTY LINE
	EXISTING SIGN
	EXISTING FENCE
	EXISTING GUIDERAIL
	EXISTING NATURAL GAS LINE
	ABANDONED NATURAL GAS PIPE
	EXISTING UNDERGROUND FIBEROPTIC
	EXISTING TELEPHONE/COMMUNICATIONS
	EXISTING UNDERGROUND ELECTRIC
	EXISTING STORM WATER PIPE
	EXISTING SANITARY PIPE
	EXISTING WATERLINE
	EXISTING FIRE PROTECTION WATERLINE
	EXISTING WATER SUPPLY WELL
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	EXISTING POST INDICATOR VALVE
	EXISTING ELECTRIC BOX
	EXISTING UTILITY POLE
	EXISTING LIGHT POST
	EXISTING MECHANICAL PUMP
	EXISTING STORM INLET

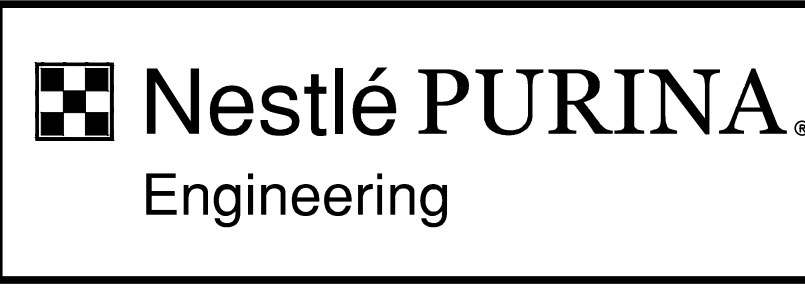


REVISION	BY	APPR	DATE	REVISION	BY	APPR	DATE

NO.	DESCRIPTION	DATE	BY	APPR
3B	60% DESIGN REVIEW SUBMITTAL	09-13-23	SMH	AMY
3A	60% DESIGN REVIEW SUBMITTAL	06-30-23	TPM	AMY
2	REVIEW SUBMITTAL	05-05-23	TPM	AMY
1	30% DESIGN SUBMITTAL	03-22-23	TPM	AMY

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REFERENCE DRAWINGS
XXXX-DXXXX



DATE	06-30-2023
MADE BY	T. MARTIN
SCALE	1" = 5'
APPROVED BY	S. DONOVAN
PROJECT ENGR	A. YON
PRINTED	09-13-2023

**NEW MUNICIPAL WATER SERVICE  
NPPC ALLENTOWN, PA FACILITY  
60% DESIGN REVIEW SUBMITTAL  
PUMP HOUSE WELL 6**

PLANT	ALLENTOWN, PA
BLDG. NO.	00
AREA NO.	671
DRAWING NUMBER	671-C012-3B
REVISION	3B







**BEST MANAGEMENT PRACTICES (BMPs)**

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVOKE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM/SITE RESTORATION PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM/SITE RESTORATION PLAN AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
6. CLEARING, GRUBBING AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATIONS SHOWN ON THE PLAN MAPS IN THE AMOUNT NECESSARY TO COMPLETE THE FINISHED GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
10. ALL BUILDING MATERIALS AND WASTE SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 2611 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED OR DISCHARGED AT THE SITE.
11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
14. VEHICLES AND EQUIPMENT MUST ENTER AND EXIT EACH WORK AREA UTILIZING THE ACCESS ROAD LOCATIONS SHOWN ON THE PLAN DRAWINGS.
15. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN UP, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RESETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
16. A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
18. ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
20. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
25. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHING GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDING AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
26. SEED AND STRAW EACH SITE WHERE WORK HAS BEEN DELAYED OR STOPPED FOR A PERIOD OF FOUR (4) OR MORE DAYS. IMMEDIATELY STABILIZE ANY AREAS LOCATED WITHIN EASILY ERODIBLE SOILS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
27. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
28. E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
29. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.
30. AFTER PERMANENT SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
31. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
32. FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
33. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
34. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER, WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
35. UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES WILL EXCEED 4 DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES.
36. CONSTRUCTION MAT ROADS SHALL BE INSTALLED AND REMOVED SEQUENTIALLY FROM FRONT TO BACK AND VICE VERSA WHILE STAYING ON THE MATS. GEOTEXTILE UNDERLAYMENT SHALL BE PLACED PRIOR TO MAT INSTALLATION. MATS SHALL BE REMOVED IMMEDIATELY UPON COMPLETION OF THE WORK IN THAT DIRECT WORK AREA.
37. FILTER SOCK MUST BE INSTALLED ON CONTOUR AT THE EDGE OF DISTURBED AREAS. BOTH ENDS OF EACH FILTER SOCK SECTION MUST EXTEND UPSLOPE AT 45 DEGREES TO THE MAIN FILTER SOCK ALIGNMENT. THEY SHOULD NOT BE INSTALLED IN STREAMS, DITCHES, OR OTHER AREAS OF CONCENTRATED FLOW. INSTALL FILTER SOCK BEFORE THE GROUND FREEZES.
38. AFTER PERMANENT SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENTATION BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.

**SEDIMENT AND WASTE DISPOSAL**

1. NO WASTE OR SIMILAR MATERIALS WILL BE DISPOSED, BURIED, DUMPED OR DISCHARGED AT THE SITE. ALL TRASH AND GARBAGE WILL BE COLLECTED AND DISPOSED OF PROPERLY.
2. LINERS TO BE REMOVED FROM THE SITE SHALL BE LEGALLY REMOVED, TRANSPORTED, AND DISPOSED OF OFF-SITE AT A LICENSED FACILITY.
3. ACCUMULATED SEDIMENT SHALL REMAIN ON SITE AND RETURNED TO THE EXISTING TOPSOIL STOCKPILE.
4. GARBAGE, FUELS, OR ANY SUBSTANCE HARMFUL TO HUMAN, AQUATIC OR FISH LIFE, WILL BE PREVENTED FROM ENTERING SPRINGS, STREAMS, PONDS, LAKES, WETLANDS, OR ANY WATER COURSE OR WATER BODY.
5. OILS, FUELS, LUBRICANTS AND COOLANTS WILL BE PLACED IN SUITABLE CONTAINERS AND DISPOSED OF PROPERLY.
6. PROPERLY DISPOSE OF ALL E&S BMPs INCLUDING SILT FENCE, FILTER SOCK FABRIC AND STAKES, GEOTEXTILE FABRIC, ETC.
7. TOPSOIL SHALL BE STOCKPILED, STORED, AND MANAGED SEPARATELY FROM SUBSOIL AND/OR DRILL CUTTINGS.
8. EXCESS FILL SHALL BE MANAGED IN ACCORDANCE WITH THE PPL EU 'MANAGEMENT OF EXCESS FILL' POLICY AND THE PADEP DOCUMENT NO. 258-2182-773 (MANAGEMENT OF FILL), NO EXCEPTIONS.
9. ALL EXCAVATED SOIL MUST REMAIN ONSITE AND WILL BE SPREAD & INSTALLED ONSITE AS PER THE PROPOSED GRADING PLAN.

**PPC PLAN REQUIREMENT**

CONTRACTOR OR OPERATOR SHALL DEVELOP AND IMPLEMENT A PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLAN FOR THE USE AND/OR STORAGE OF CHEMICALS, SOLVENTS OR OTHER WASTE OR MATERIALS THAT WILL HAVE THE POTENTIAL TO CAUSE ACCIDENTAL POLLUTION DURING EARTH DISTURBANCE ACTIVITIES. REFER TO THE PADEP GUIDELINES FOR THE DEVELOPMENT AND IMPLEMENTATION OF ENVIRONMENTAL EMERGENCY RESPONSE PLANS DOCUMENT.

**E&S BMP MAINTENANCE**

1. ALL BMPs SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH STORMWATER EVENT DURING THE ACTIVE CONSTRUCTION PHASE OF THE PROJECT.
2. EARTH DISTURBANCE AREAS WILL BE REPAIRED WHERE SIGNS OF ACCELERATED EROSION ARE DETECTED.
3. SEEDING AND MULCHING WILL BE REPEATED IN THOSE AREAS THAT APPEAR TO BE FAILING OR HAVE FAILED.
4. PENNSYLVANIA GROWING SEASON IS DEFINED AS THE NUMBER OF DAYS FROM THE LAST FROST IN SPRING THROUGH THE FIRST FROST IN AUTUMN. TYPICALLY, THE GROWING SEASON IS FROM APRIL 1ST THROUGH JUNE 1ST AND SEPTEMBER 1ST THROUGH OCTOBER 31ST.
5. THE FOLLOWING MAINTENANCE PROCEDURES SHALL BE TAKEN FOR EACH BMP:
  - 5.1. ROCK CONSTRUCTION ENTRANCE - ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON-SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAYS, EXTEND LENGTH OF THE ROCK CONSTRUCTION ENTRANCE BY 50-FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.
  - 5.2. COMPOST FILTER SOCK - DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE GROUND HEIGHT OF THE BARRIER.
  - 5.3. DIVERSION SOCK - THIS ITEM IS NOT ANTICIPATED TO BE USED ON THIS PROJECT, HOWEVER NOTES AND DETAILS ARE PROVIDED IF ADVERSE CONDITIONS DEVELOP. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE GROUND HEIGHT OF THE BARRIER.
  - 5.4. TEMPORARY TIMBER MAT ROAD AND WORK PADS - TIMBER MAT ROADS AND WORK PADS SHALL BE INSPECTED DAILY. PERIODICALLY REMOVE SEDIMENT THAT IS FORCED UP OR TRACKED ONTO MATS. DAMAGED MATS SHALL BE REPAIRED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
  - 5.5. LOW-IMPACT MAT ROAD AND WORK PADS - LOW-IMPACT MAT ROADS AND WORK PADS SHALL BE INSPECTED DAILY. PERIODICALLY REMOVE SEDIMENT THAT IS FORCED UP OR TRACKED ONTO MATS. DAMAGED MATS SHALL BE REPAIRED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
  - 5.6. STABILIZED STONE ACCESS ROAD - THIS ITEM IS NOT ANTICIPATED TO BE USED ON THIS PROJECT, HOWEVER NOTES AND DETAILS ARE PROVIDED IF ADVERSE CONDITIONS DEVELOP. INSPECT AFTER EACH RAINFALL AND WEEKLY. PLACE ADDITIONAL GRAVEL AS NEEDED AND REPAIR ANY DAMAGED AREAS. MAINTAIN ANY ROADSIDE DRAINAGE CONTROLS.
  - 5.7. EROSION CONTROL BLANKET - INSPECT AFTER EACH RAINFALL AND WEEKLY UNTIL THE AREA HAS ACHIEVED PERMANENT STABILIZATION. DAMAGED OR DISPLACED BLANKETS SHALL BE REPLACED OR RESTORED WITHIN FOUR (4) CALENDAR DAYS OF INSPECTION.
  - 5.8. CONCRETE WASHOUT -INSPECT ALL CONCRETE WASHOUT FACILITIES DAILY. DEACTIVATE AND REPAIR OR REPLACE DAMAGED OR LEAKING WASHOUTS IMMEDIATELY.
  - 5.9. PUMPED WATER FILTER BAG - FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.
  - 5.10. SOIL STABILIZATION SEEDING - INSPECT ANNUALLY AND WITHIN 48 HOURS AFTER EVERY MAJOR STORM EVENT OF GREATER THAN ONE-INCH RAINFALL DEPTH. INSPECT FOR FORMATION OF EROSION RILLS OR GULLIES AND CORRECT AS NEEDED. RESEED AND MULCH BARE AREAS. RETILL AND REPLANT SEED MIX IF GROWTH IS INHIBITED DUE TO COMPACTION. PLANT ALTERNATIVE GRASS SPECIES IN EVENT OF UNSUCCESSFUL ESTABLISHMENT.
  - 5.11. STRAW MULCH - USE STRAW MULCH AS NEEDED FOR SEEDING ACTIVITIES. REAPPLY AS NEEDED.

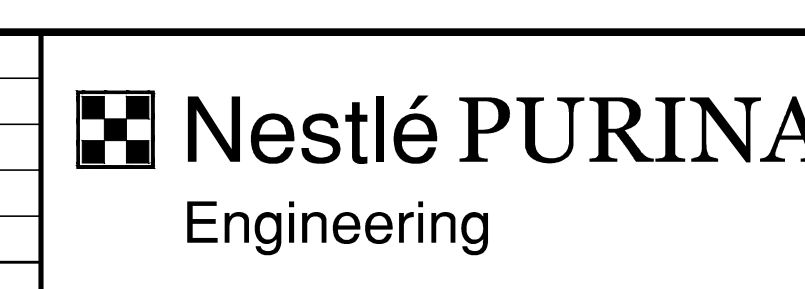
**CONSTRUCTION SEQUENCE**

1. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OWNER AND/OR OPERATOR SHALL INVOKE ALL CONTRACTORS, THE LANDOWNER, THE E&S PLAN PREPARER, AND THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PLAN TO AN ON-SITE PRECONSTRUCTION MEETING.
2. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE CONTRACTOR SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM, INC. AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
3. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. DEVIATION FROM THE SEQUENCE MUST BE APPROVED BY NESTLE AND THE COUNTY CONSERVATION DISTRICT PRIOR TO IMPLEMENTATION. EACH STEP OF THIS SEQUENCE MUST BE COMPLETED BEFORE PROCEEDING TO THE NEXT STEP UNLESS OTHERWISE NOTED:
  - 3.1. PRELIMINARY TREE CLEARING/TRIMMING OF THE RIGHT OF WAY MAY BE DONE IN PREPARATION FOR CONSTRUCTION AS PART OF NESTLE'S VEGETATION MANAGEMENT PROGRAM. INSTALL NECESSARY E&S CONTROLS FOR THIS WORK.
  - 3.2. CLEARLY MARK AND IDENTIFY THE LIMITS OF DISTURBANCE (LOD), WETLAND AND STREAM BOUNDARIES AS SHOWN ON THE PLAN DRAWINGS PRIOR TO MOBILIZING ONTO THE SITE. INSTALL ORANGE CONSTRUCTION FENCE AT WETLANDS AND WHERE INDICATED ON THE PLAN DRAWINGS.
  - 3.3. INSTALL THE STABILIZED ROCK CONSTRUCTION ENTRANCES AND MATTED ENTRANCES AT EACH LOCATION AS SHOWN ON THE PLAN DRAWINGS. ALL ROCK ENTRANCES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE DETAIL PROVIDED IN THIS PLAN. ALL ROCK CONSTRUCTION ENTRANCES SHALL BE REMOVED POST-CONSTRUCTION AND THE AREA RESTORED TO PRE-CONSTRUCTION CONDITIONS. IF ANY SEDIMENT IS TRACKED ONTO THE ROADWAY, IT SHOULD BE REMOVED IMMEDIATELY, NOT AT THE END OF THE DAY. WHERE CONSTRUCTION MATTING IS USED FOR ACCESS ROADS, ROCK CONSTRUCTION ENTRANCES ARE NOT REQUIRED.
  - 3.4. INSTALL COMPOST FILTER SOCKS, INLET FILTER BAGS, AND CONSTRUCTION ENTRANCES IN THE LOCATIONS SHOWN ON THE PLAN DRAWINGS. THE SOCKS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH STANDARD E&S WORKSHEET #1 AND THE DETAILS PROVIDED IN THIS PLAN. WHERE CONSTRUCTION MATTING IS USED FOR WORK PADS AND ACCESS ROADS, FILTER SOCK IS NOT REQUIRED, UNLESS WHERE SHOWN.
  - 3.5. CONCRETE WASHOUTS SHALL BE PLACED ACCORDING TO THE DETAIL PROVIDED IN THE E&S PLANS AT LOCATIONS WHERE CONCRETE FOUNDATIONS ARE TO BE INSTALLED.
  - 3.6. BEGIN REMOVAL OF THE EXISTING STRUCTURES AS INDICATED ON THE DEMO PLAN.
  - 3.7. BEGIN TRENCHING ACTIVITIES FOR PLACEMENT OF WATERLINE. THE TOTAL LENGTH OF EXCAVATED TRENCH OPEN DURING ONE WORKING DAY SHALL BE EQUAL TO THE TOTAL LENGTH OF PIPE THAT CAN BE INSTALLED AND BACKFILLED IN ONE WORKING DAY.
  - 3.8. TEMPORARILY SEED AND STRAW EACH SITE WHERE WORK HAS BEEN DELAYED OR STOPPED FOR A PERIOD OF FOUR OR MORE DAYS.
  - 3.9. FOLLOWING COMPLETION OF CONSTRUCTION, REMOVE ALL TEMPORARY UTILITY HARDWARE AND CONSTRUCTION EQUIPMENT FROM THE SITE.
  - 3.10. AS WORK IS COMPLETED AT EACH SITE, BEGIN PERMANENT RESTORATION. IN LOCATIONS WHERE STONE WAS INSTALLED FOR CONSTRUCTION, REMOVE MATERIAL, DECOMPACT SOIL, AND PREPARE FOR SEEDING. REFER TO THE POST-CONSTRUCTION SITE RESTORATION ANNOTATIONS ON THE PLAN DRAWINGS. CONTACT THE COUNTY CONSERVATION DISTRICT PRIOR TO THE REMOVAL OF ANY TEMPORARY BMPs.
  - 3.11. REINSTATE STOCKPILED TOPSOIL TO ITS ORIGINAL LOCATION AND THICKNESS AND TILL/ RIP SOIL TO A MINIMUM DEPTH OF EIGHT (8) INCHES OR TO DEPTH OF COMPACTION. PERFORM SOIL RESTORATION AT THE LOCATIONS SHOWN ON THE E&S/SITE RESTORATION PLAN DRAWINGS AND IN ACCORDANCE WITH THE DETAIL IN THIS PLAN.
    - 3.11.1. INSTALL STABILIZATION BMPs INCLUDING PERMANENT SEEDING AND MULCHING. APPLY THE APPROPRIATE SEED MIX BASED ON THE GERMINATION SEASON (SPRING OR FALL) BEFORE 20 DAYS OF THE END OF THE GERMINATION SEASON. IF WITHIN 20 DAYS OF A NON-GERMINATING PERIOD, TEMPORARILY STABILIZE THE AREAS THEN SUBSEQUENTLY RE-SEED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS DURING THE GERMINATION PERIODS. STABILIZE ALL OPEN AREAS INCLUDING BORROW AND SPOIL AREAS. INSTALL EROSION CONTROL BLANKETING FOLLOWING FINAL SEEDING IN ACCORDANCE WITH THIS PLAN.
  - 3.12. A SUITABLE TEMPORARY SEED MIX FOR AGRICULTURAL USE WILL BE UTILIZED UNTIL CONDITIONS ARE SUITABLE FOR FARMERS TO PLANT CROPS OR OTHERWISE RESTORE THE AGRICULTURAL FIELDS TO A CROPPED CONDITION. SPRING OATS, ANNUAL RYE, WINTER WHEAT OR SIMILAR SEED MIXES CAN BE USED.
  - 3.13. PRIOR TO FINAL SITE RESTORATION, ALL CONCRETE WASHOUT PITS AND SPOIL STOCKPILES WILL BE REMOVED FROM THE SITE. ALL EXCESS SPOILS WILL BE REMOVED IN FULL COMPLIANCE WITH THE E&S PLAN AND IN COMPLIANCE WITH THE MOST CURRENT PADEP MANAGEMENT OF FILL POLICY.
  - 3.14. DEMOBILIZE ANY REMAINING EQUIPMENT AND MATERIALS FROM ALL SITES AND PERMANENTLY RESTORE THE DISTURBED AREAS.
  - 3.15. UPON ACHIEVING 70% UNIFORM VEGETATIVE COVER, REMOVE ALL REMAINING TEMPORARY BMPs (E.G. FILTER SOCK) AND STABILIZE ANY DISTURBANCES ASSOCIATED WITH THE REMOVAL OF THE BMP. COMPOST FILTER SOCK SHALL BE CUT IN PLACE AND THE COMPOST SPREAD ONLY IF THE LOCATION IS UNDEVELOPED AND THE SOCK IS REMOVED FROM THE SITE. DO NOT SPREAD COMPOST MATERIAL ON LANDSCAPED AREAS OR RESIDENTIAL LAWNS.

File: G:\PROJECT FILES\GRAPHICS\DRAWINGS\LAYOUT SHEETS\HA9218 WATER LINE - DETAILS Soved: 1-Sep-23 13:31 By: Sheinze

3B	60% DESIGN REVIEW SUBMITTAL	SMH	AMY	09-13-23	NOTICE - THIS DRAWING AND ALL DESIGNS, DETAILS, INVENTIONS OR DEVELOPMENTS COVERED THEREBY ARE CONFIDENTIAL AND THE EXCLUSIVE PROPERTY OF NESTLE PURINA PETCARE COMPANY WHICH RESERVES ALL PATENT OR OTHER RIGHTS. COPYING, REPRODUCTION OR PUBLICATION, IN WHOLE OR IN PART, IS FORBIDDEN UNLESS EXPRESSLY AUTHORIZED BY NESTLE PURINA PETCARE COMPANY. ANY SUCH COPIES SHALL ALSO BE THE EXCLUSIVE PROPERTY OF THE NESTLE PURINA PETCARE COMPANY. THIS DRAWING AND ANY SUCH COPIES SHALL BE RETURNED WHEN REQUESTED AND USED SUBJECT TO ABOVE CONDITIONS ONLY ON AUTHORIZED COMPANY WORK.
3A	60% DESIGN REVIEW SUBMITTAL	TPM	AMY	06-30-23	
2	REVIEW SUBMITTAL	TPM	AMY	05-05-23	
30%	DESIGN SUBMITTAL	TPM	AMY	03-22-23	
1	DESIGN SUBMITTAL	TPM	AMY	03-22-23	

XXX-DXXXX	
DATE	06-30-2023
MADE BY	T. MARTIN
SCALE	1" = 20'
APP'D BY	S. DONOVAN
ENGR	A. YON
PRINTED	09-13-2023



**NEW MUNICIPAL WATER SERVICE  
NPPC ALLENTOWN, PA FACILITY  
60% DESIGN REVIEW SUBMITTAL  
E&S NOTES**

PLANT	ALLENTOWN, PA	AREA NO.	671
BLOC. NO.	00	DRAWING NUMBER	671-C014-3B
REVISION			3B



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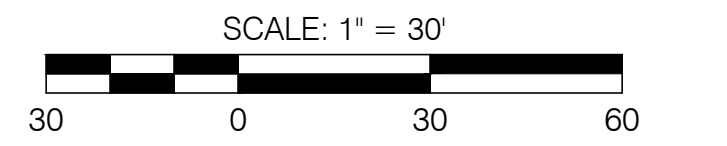
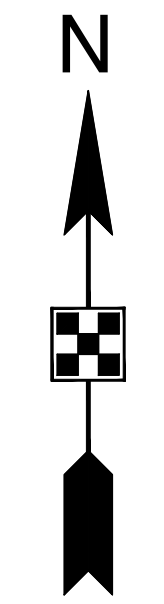
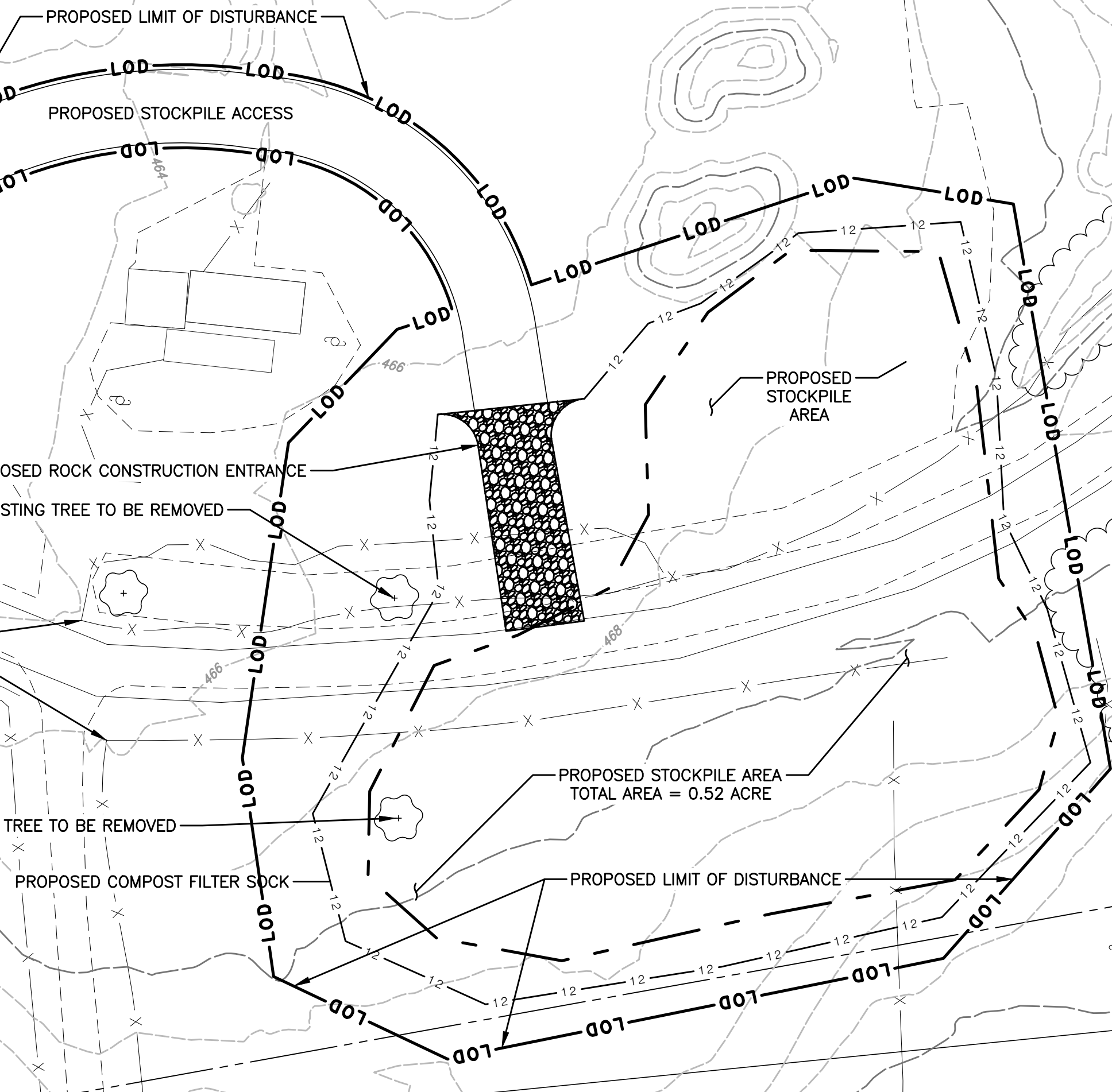
**LEGEND**

	PROPOSED LIMIT OF DISTURBANCE (5.54 ACRES)
	PROPOSED LAYDOWN AREA
	PROPOSED WATER SERVICE WITH CURB BOX
	PROPOSED FENCE AT WATER METER STATION
	PROPOSED TOWNSHIP EASEMENT
	PROPOSED STORM WATER INLET PROTECTION
	PROPOSED SPOILS AREA LIMITS
	PROPOSED STOCKPILE AREA LIMITS
	EXISTING EASEMENT LINE
	APPROXIMATE PROPERTY LINE
	EXISTING SIGN
	EXISTING FENCE
	EXISTING GUIDERAIL
	EXISTING NATURAL GAS LINE
	ABANDONED NATURAL GAS PIPE
	EXISTING UNDERGROUND FIBEROPTIC
	EXISTING TELEPHONE/COMMUNICATIONS
	EXISTING UNDERGROUND ELECTRIC
	EXISTING STORM WATER PIPE
	EXISTING SANITARY PIPE
	EXISTING WATERLINE
	EXISTING FIRE PROTECTION WATERLINE
	EXISTING WATER SUPPLY WELL
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	EXISTING POST INDICATOR VALVE
	EXISTING ELECTRIC BOX
	EXISTING UTILITY POLE
	EXISTING LIGHT POST
	EXISTING MECHANICAL PUMP
	EXISTING STORM INLET

N/F  
MORRIS E. & VIOLET M. WISSER  
D.B.V. 1064, PG. 454

LIMITS OF EXISTING GRAVEL

POP-7400



REVISION	BY	APP'D BY	DATE	REVISION	BY	APP'D BY	DATE
3B				3A			
2				1			

NO.	DESCRIPTION	BY	APP'D BY	DATE
3B	60% DESIGN REVIEW SUBMITTAL	SMH	AMY	09-13-23
3A	60% DESIGN REVIEW SUBMITTAL	TPM	AMY	06-20-23
2	REVIEW SUBMITTAL	TPM	AMY	05-05-23
1	DESIGN SUBMITTAL	TPM	AMY	03-22-23

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XXXX-DXXXX



DATE: 06-20-2023  
MADE BY: T. MARTIN  
SCALE: 1" = 30'  
BY: S. DONOVAN  
ENGR: A. YON  
PRINTED: 09-13-2023

**NEW MUNICIPAL WATER SERVICE  
NPPC ALLENTOWN, PA FACILITY  
60% DESIGN REVIEW SUBMITTAL  
SPOILS AND STOCKPILE AREAS PLAN**

PLANT ALLENTOWN, PA	AREA NO. 671
BLOG. NO. 00	
DRAWING NUMBER	REVISION
<b>671-C015-3B</b>	<b>3B</b>

W.O.# 00#3215