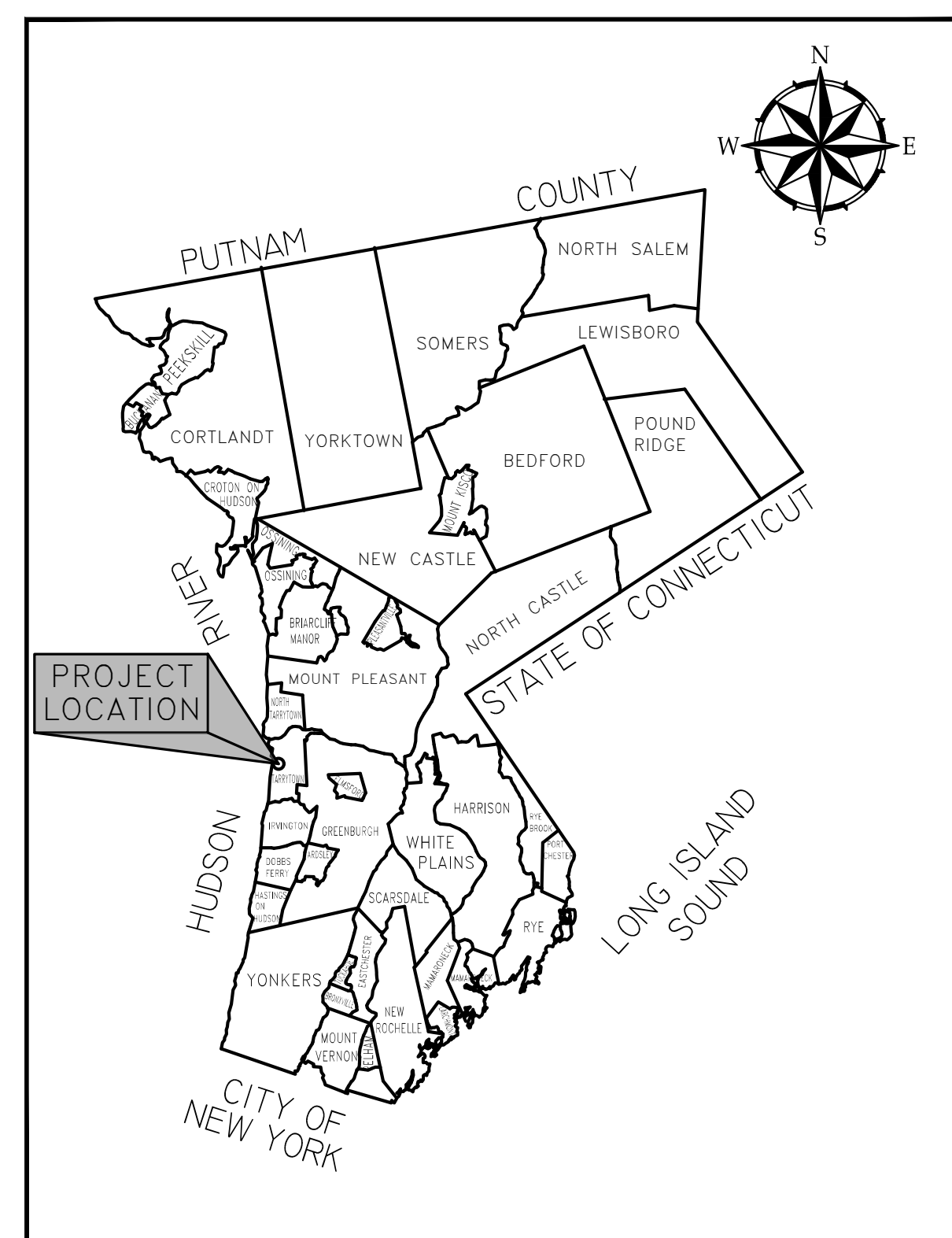


# PHASE VII-B WATER MAIN REPLACEMENTS

## VILLAGE OF TARRYTOWN

### WESTCHESTER COUNTY, NEW YORK

### JULY 2023



**PROJECT LOCATION MAP**  
SCALE: NOT TO SCALE

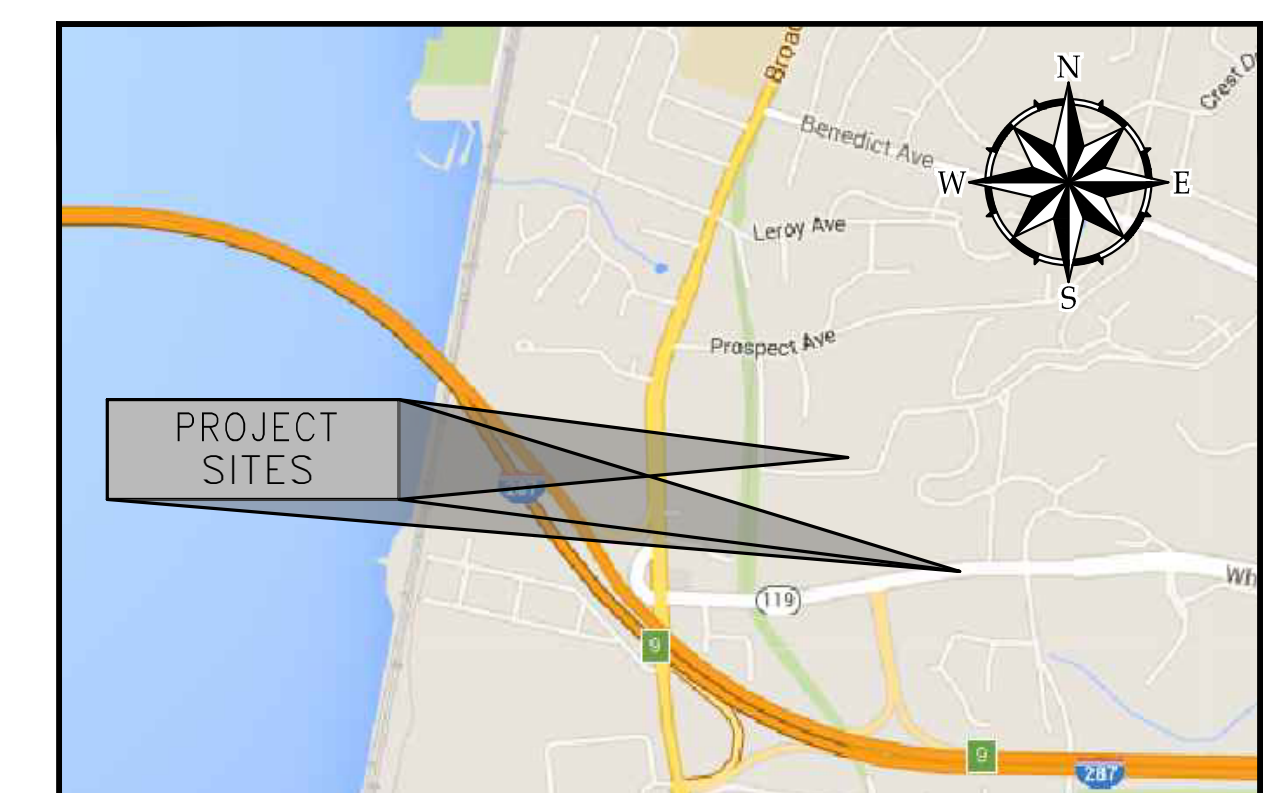
#### WOODARD & CURRAN DRAWING LIST

- G-001 TITLE SHEET
- G-002 CONSTRUCTION NOTES
- C-102 WHITE PLAINS ROAD NYSDOT ROUTE 119 EXISTING CONDITIONS
- C-103 MARTLING AVENUE EXISTING CONDITIONS
- C-202 WHITE PLAINS ROAD NYSDOT ROUTE 119 WATER MAIN REPLACEMENTS
- C-203 MARTLING AVENUE WATER MAIN REPLACEMENT PLAN
- C-204 MARTLING AVENUE WATER MAIN REPLACEMENT PROFILE STA. 00+00 TO 08+00
- C-205 MARTLING AVENUE WATER MAIN REPLACEMENT PROFILE STA. 08+00 TO 23+00
- C-300 CONSTRUCTION DETAILS SHEET 1
- C-301 CONSTRUCTION DETAILS SHEET 2
- C-302 CONSTRUCTION DETAILS SHEET 3

#### **Mayor and Board of Trustees**

Karen Brown, Mayor  
 Rebecca McGovern, Deputy Mayor  
 Effie Phillips-Staley  
 Robert Hoyt  
 David T. Kim  
 Thomas Mitchell  
 Paul Rinaldi  
 David Kim

Kristine Gilligan, Village Clerk  
 Diana Barry, Intermediate Clerk  
 Richard C. Slingerland, Village Administrator  
 Donato R. Pennella, P.E., Village Engineer  
 Louis Martirano, Superintendent of Public Work



SOURCE: GOOGLE MAPS

**SITE LOCATION MAP**  
SCALE: NOT TO SCALE



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SCHEDULE OF TEMPORARY EROSION CONTROL MEASURES:

Table with 3 columns: MEASURE, DATES FOR USE, TIMING, ACTIVITY, AND LOCATION. Rows include SILT FENCE and INSPECTIONS.

GENERAL NOTES:

- 1. EXISTING CONDITIONS SHOWN HEREON HAVE BEEN TAKEN FROM SURVEYS CREATED BY MFS CONSULTING ENGINEERS & SURVEYORS, DPC ON JANUARY 22, 2016 AND GIS DATA PROVIDED BY WESTCHESTER COUNTY GIS AND THE VILLAGE OF TARRYTOWN.

CONSTRUCTION NOTES:

- 1. CASTINGS FOR EXISTING STRUCTURES TO REMAIN AND STRUCTURES SHALL BE SET TO THE ELEVATIONS SHOWN ON THE DRAWINGS.

UTILITIES/WCDOH NOTES:

- 1. ALL PROPOSED UTILITIES (WATER, ELECTRIC, SANITARY, STORM SEWER, ETC.) AND THEIR CONNECTIONS, DISCONNECTION AND RELOCATION OF EXISTING UTILITIES SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY HAVING JURISDICTION OR THE ENGINEER.

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Revision table with columns: REV, DESCRIPTION, DATE, DESIGNED BY, CHECKED BY, DRAWN BY.

CONSTRUCTION NOTES

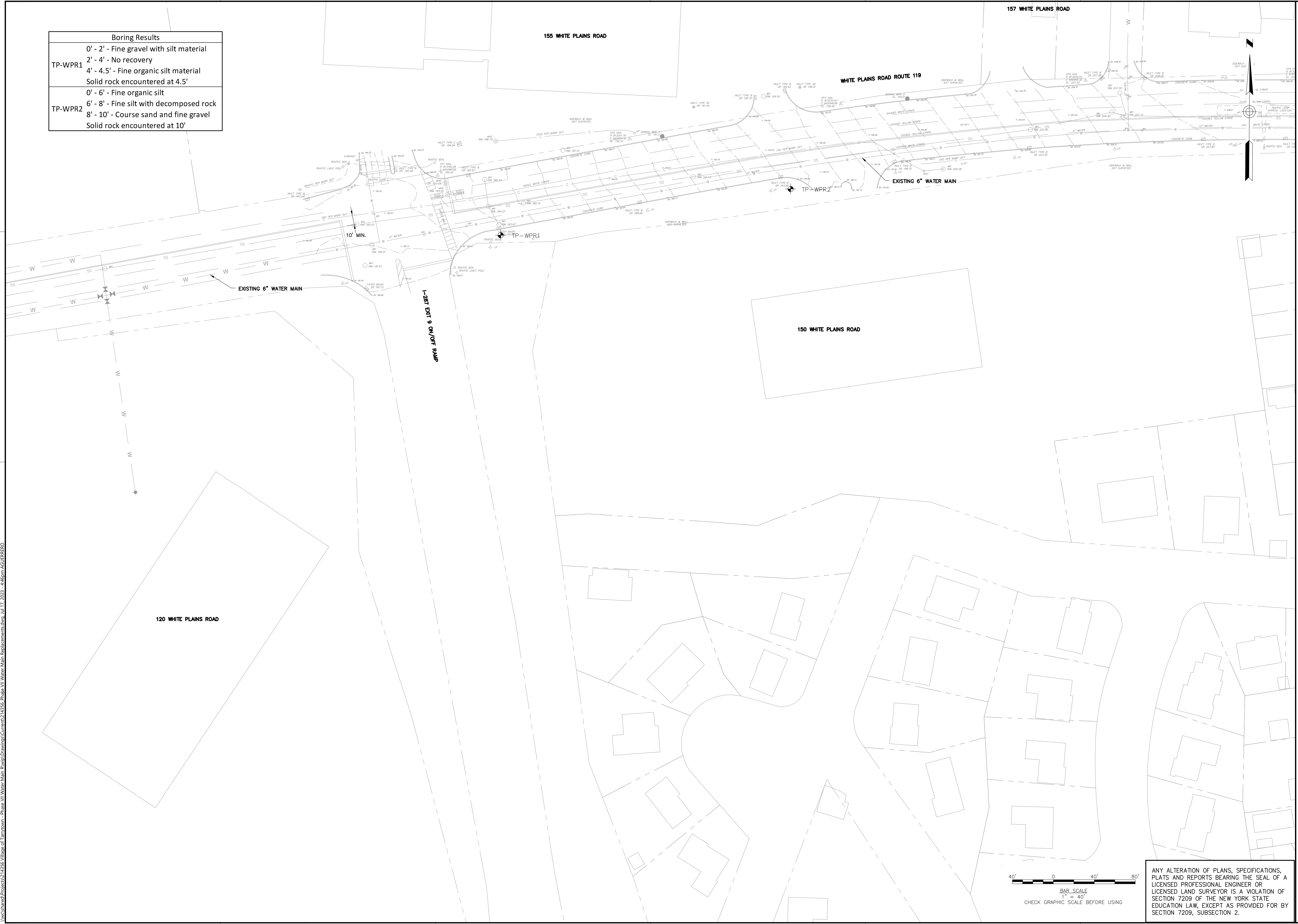
VILLAGE OF TARRYTOWN, 4 DIVISION STREET, TARRYTOWN, NY 10591. PHASE VII-B WATER MAIN REPLACEMENTS

JOB NO.: 214356, DATE: JULY 2023, SCALE: N.T.S., SHEET: 2 OF 11, G-002

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\\w:\shared\Projects\214356\_Village of Tarrytown - Phase VII Water Main (R)wp\Drawings\Current\214356\_Tide\_Sheet (Phase VII Water Main Replacements).dwg, Jul 17, 2023 - 3:49pm AGUERREO

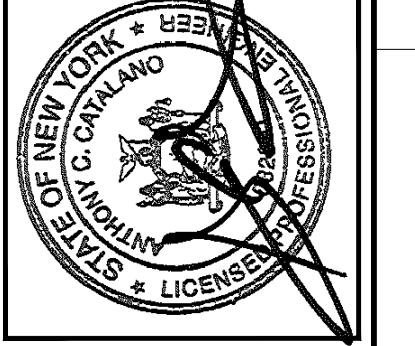
Boring Results	
TP-WPR1	0' - 2' - Fine gravel with silt material
	2' - 4' - No recovery
	4' - 4.5' - Fine organic silt material Solid rock encountered at 4.5'
TP-WPR2	0' - 6' - Fine organic silt
	6' - 8' - Fine silt with decomposed rock
	8' - 10' - Course sand and fine gravel Solid rock encountered at 10'



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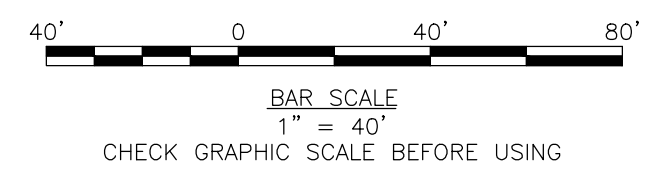
**WHITE PLAINS ROAD NYSDOT ROUTE 119 EXISTING CONDITIONS**

VILLAGE OF TARRYTOWN  
 4 DIVISION STREET, TARRYTOWN, NY 10591

PHASE VII-B WATER MAIN REPLACEMENTS

JOB NO.: 214356  
 DATE: JULY 2023  
 SCALE: AS NOTED ON SCALE BAR  
 SHEET: 3 OF 11

**C-102**

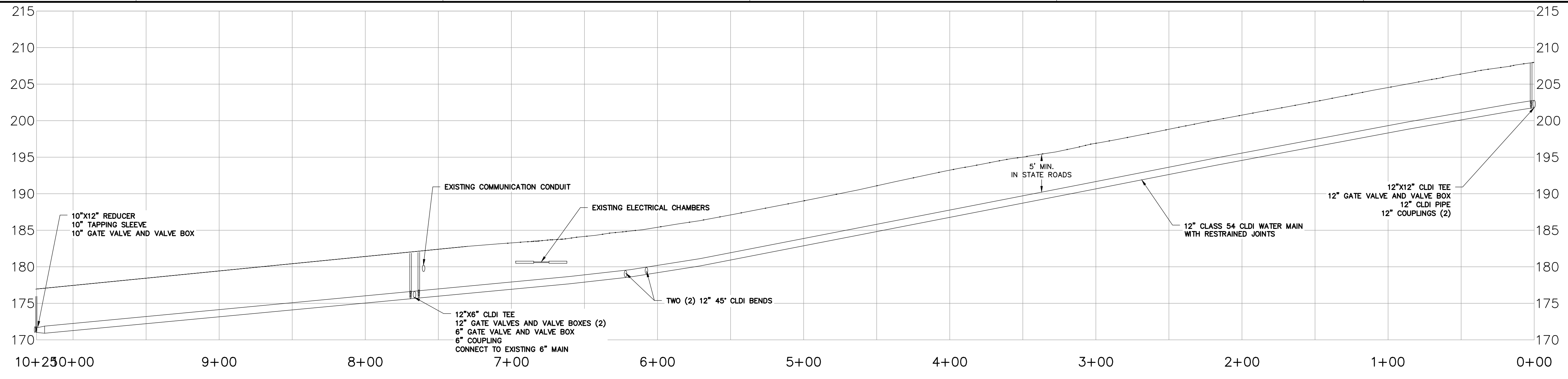


ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

I:\work\shared\Projects\214356\Tarrytown - Phase VII Water Main (RWP)\Drawings\Current\214356\_Phase VII Water Main Replacements.dwg, Jul 17, 2023 - 4:46pm, AGLERRERO



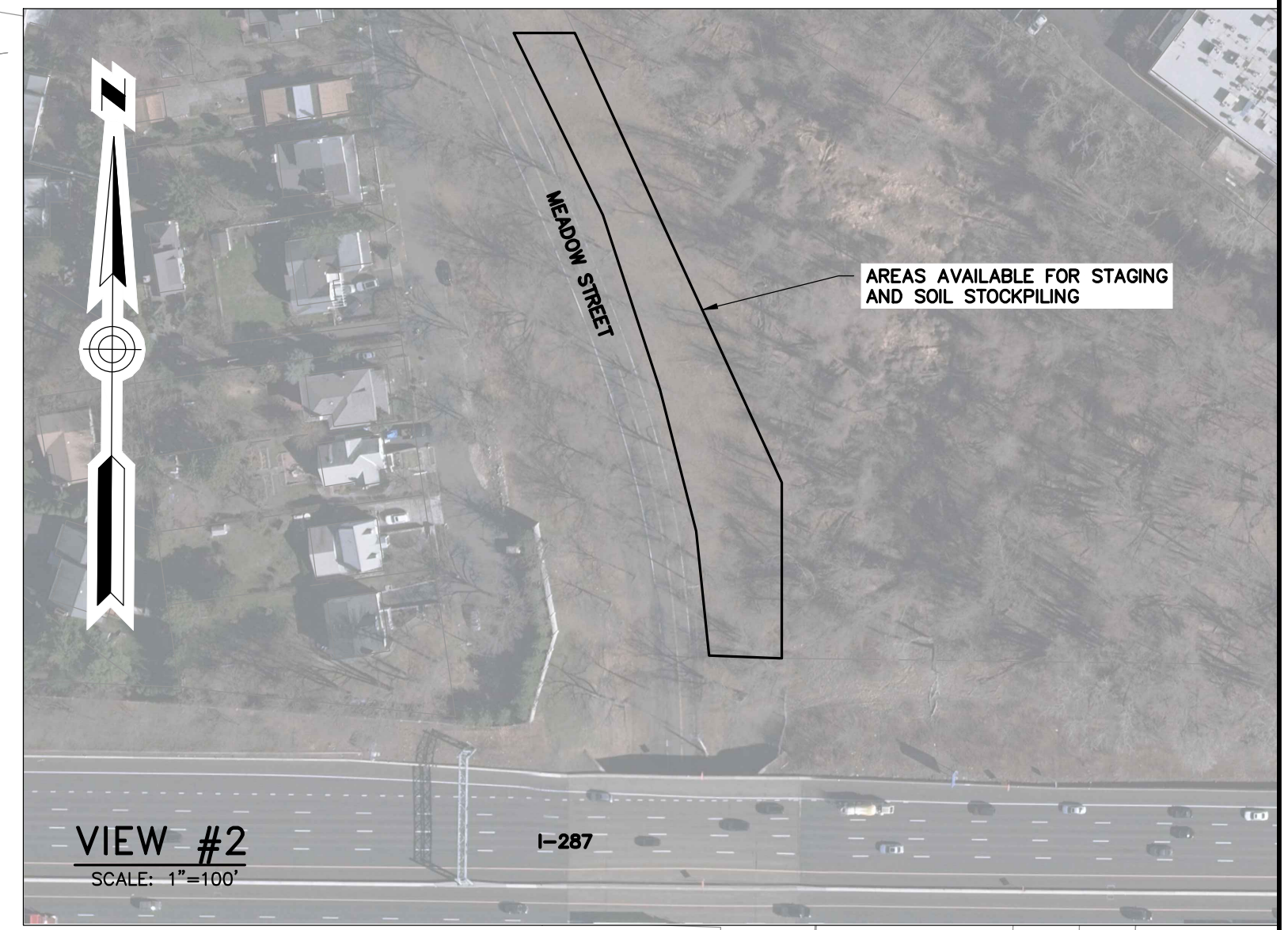
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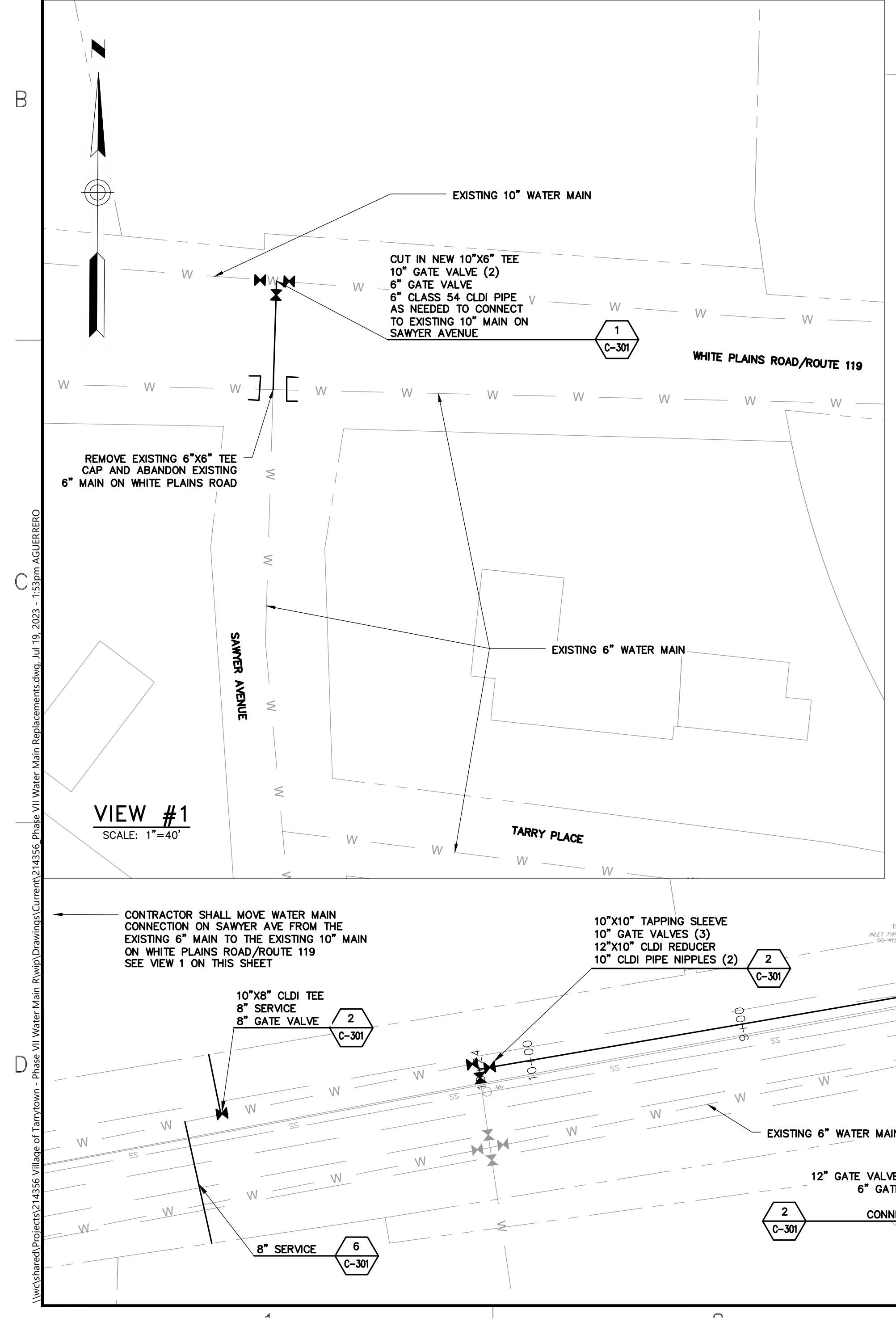
HORIZONTAL SCALE: 1" = 40'  
VERTICAL SCALE: 1" = 8'  
PROFILE STA. 0+00 TO STA. 10+25

B

- NOTES:**
- SCHEDULE SHUTDOWN TO CONNECT TO EXISTING WATER MAIN AT STA. 00+00. COMPLETE CONNECTION IN A SINGLE 8-HOUR SHUTDOWN.
  - PERFORM WORK THAT WILL CREATE SERVICE INTERRUPTIONS ON SATURDAY OR SUNDAY. COORDINATE WATER SERVICE INTERRUPTIONS WITH VILLAGE. WORK SHALL BE SEQUENCED TO MINIMIZE DURATION AND NUMBER OF INTERRUPTIONS. THE VILLAGE WILL PROVIDE NOTIFICATION OF SERVICE INTERRUPTIONS TO CUSTOMERS.
  - DUE TO HIGH TRAFFIC VOLUME, STAGING AREAS ARE NOT AVAILABLE ON WHITE PLAINS ROAD/ROUTE 119. STAGING AREA IS AVAILABLE ON MEADOW STREET NEAR I-287, IN THE LOCATION SHOWN IN VIEW #2. THE CONTRACTOR SHALL NOT STOCKPILE MATERIALS EXCEPT FOR IN THIS STAGING AREA. SOIL STOCKPILES SHALL BE STABILIZED AND RINGED WITH SILT FENCE.
  - PROVIDE MAINTENANCE AND PROTECTION OF TRAFFIC IN ACCORDANCE WITH NYS DOT REQUIREMENTS AND IN ACCORDANCE WITH DRAWING SHEET MPT-1. WHERE NYS DOT REQUIRES OR REQUESTS ADDITIONAL MAINTENANCE AND PROTECTION OF TRAFFIC ELEMENTS, CONTRACTOR SHALL PROVIDE THOSE ELEMENTS AT NO ADDITIONAL COST TO THE OWNER.
  - CONTRACTOR SHALL RESTORE FULL LANE WIDTH OF ROADWAYS DISTURBED BY CONTRACTOR, WITH FULL WIDTH MILLING AND PAVEMENT, AND CONTRACTOR SHALL RESTORE ANY TRAFFIC LOOPS DISTURBED BY CONTRACTOR IN ACCORDANCE WITH NYS DOT REQUIREMENTS.

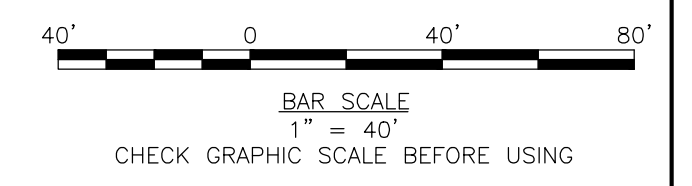
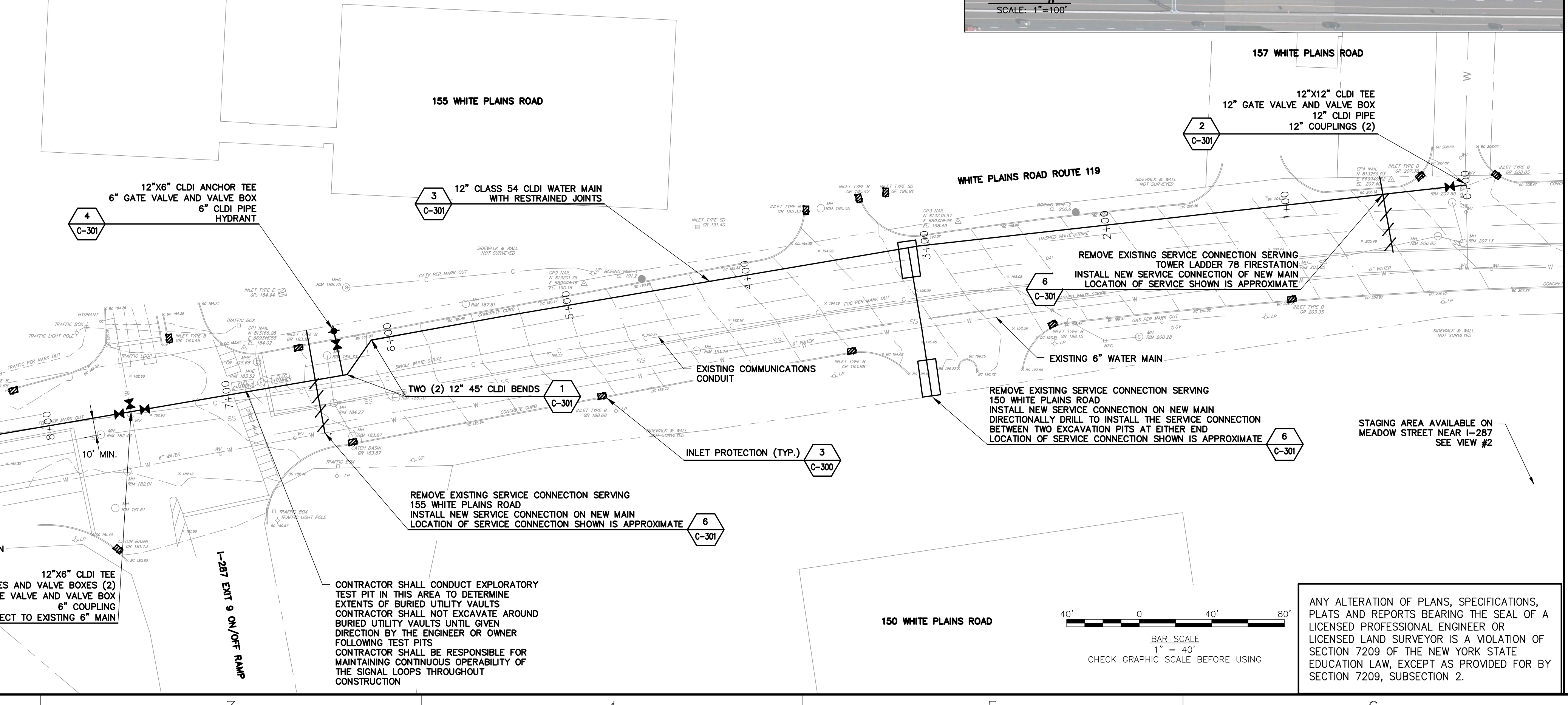


C



VIEW #1  
SCALE: 1"=40'

D



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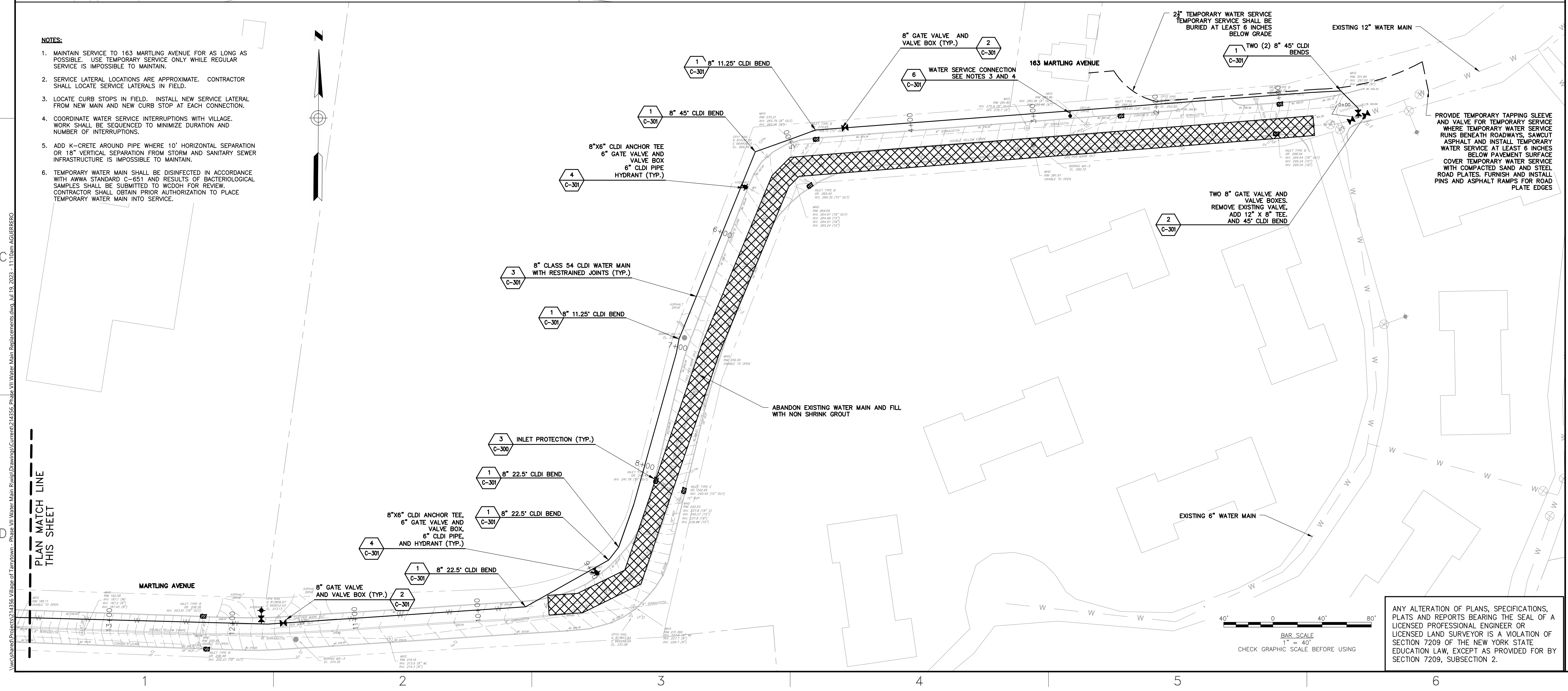
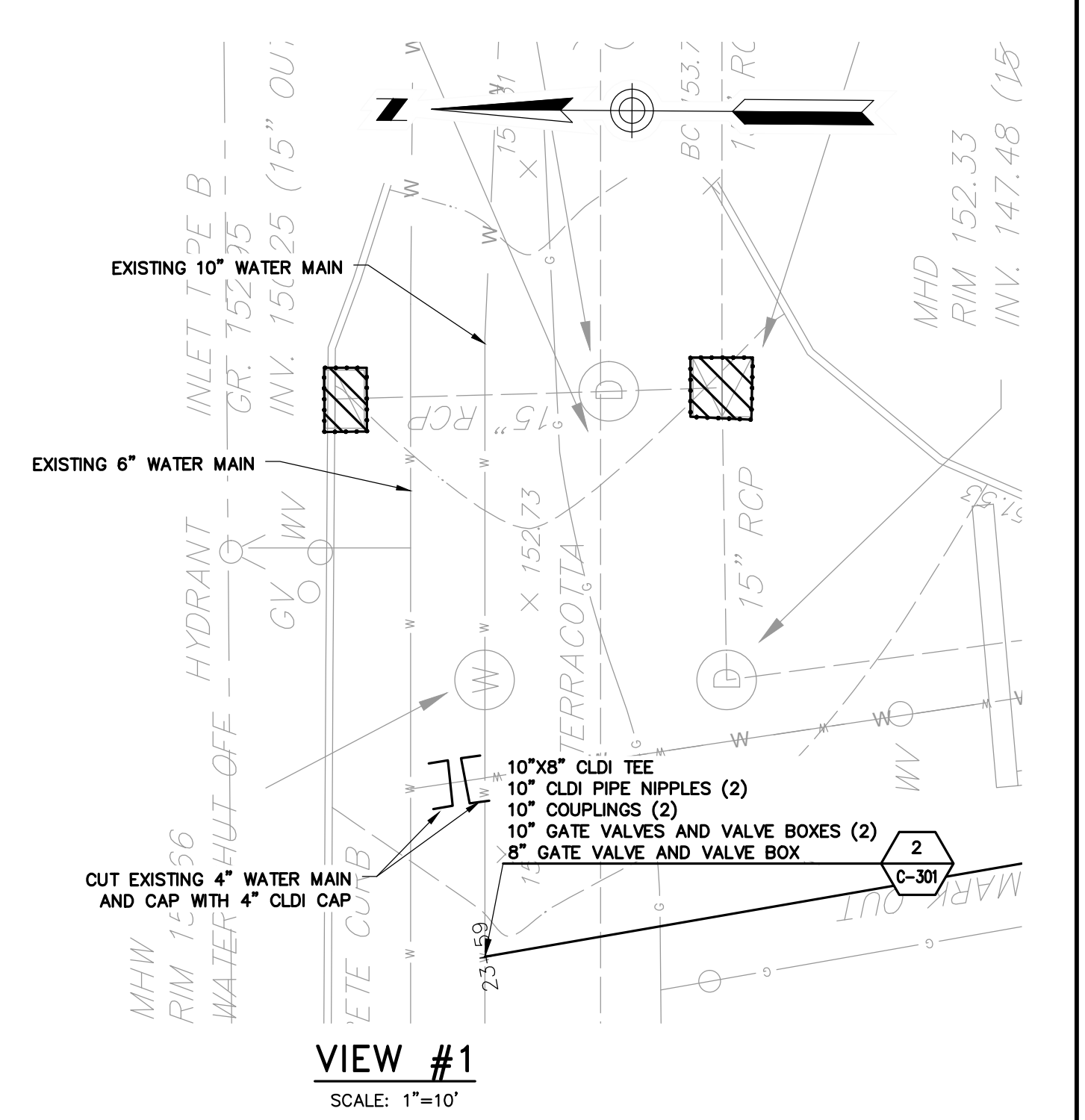
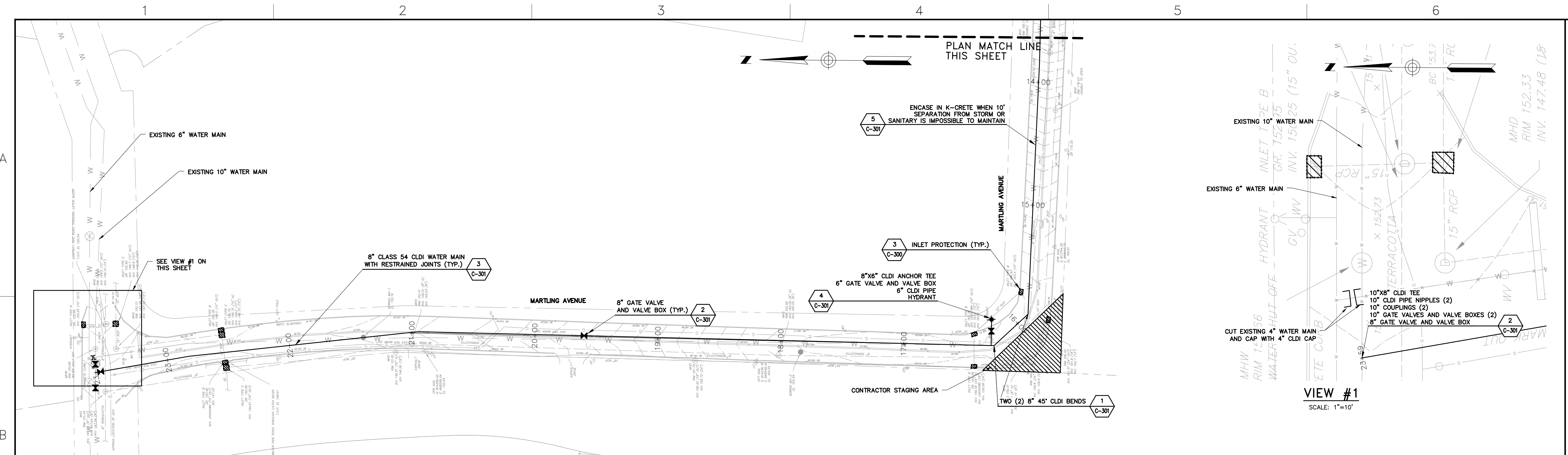
**WHITE PLAINS ROAD NYS DOT ROUTE 119 WATER MAIN REPLACEMENTS**

VILLAGE OF TARRYTOWN  
4 DIVISION STREET, TARRYTOWN, NY 10591

PHASE VII-B WATER MAIN REPLACEMENTS

JOB NO.: 214356  
DATE: JULY 2023  
SCALE: AS NOTED ON SCALE BAR  
SHEET: 6 OF 11

**C-202**



- NOTES:**
1. MAINTAIN SERVICE TO 163 MARTLING AVENUE FOR AS LONG AS POSSIBLE. USE TEMPORARY SERVICE ONLY WHILE REGULAR SERVICE IS IMPOSSIBLE TO MAINTAIN.
  2. SERVICE LATERAL LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE SERVICE LATERALS IN FIELD.
  3. LOCATE CURB STOPS IN FIELD. INSTALL NEW SERVICE LATERAL FROM NEW MAIN AND NEW CURB STOP AT EACH CONNECTION.
  4. COORDINATE WATER SERVICE INTERRUPTIONS WITH VILLAGE. WORK SHALL BE SEQUENCED TO MINIMIZE DURATION AND NUMBER OF INTERRUPTIONS.
  5. ADD K-CRETE AROUND PIPE WHERE 10' HORIZONTAL SEPARATION OR 18" VERTICAL SEPARATION FROM STORM AND SANITARY SEWER INFRASTRUCTURE IS IMPOSSIBLE TO MAINTAIN.
  6. TEMPORARY WATER MAIN SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C-651 AND RESULTS OF BACTERIOLOGICAL SAMPLES SHALL BE SUBMITTED TO WOODH FOR REVIEW. CONTRACTOR SHALL OBTAIN PRIOR AUTHORIZATION TO PLACE TEMPORARY WATER MAIN INTO SERVICE.

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REV	DESCRIPTION	DATE

DESIGNED BY: 2025.PHASE WATER-ENG  
 CHECKED BY:  
 DRAWN BY:

**MARTLING AVENUE WATER MAIN REPLACEMENT PLAN**

VILLAGE OF TARRYTOWN  
 4 DIVISION STREET, TARRYTOWN, NY 10591  
 PHASE VII-B WATER MAIN REPLACEMENTS

JOB NO.: 214356  
 DATE: JULY 2023  
 SCALE: AS NOTED ON SCALE BAR  
 SHEET: 6 OF 11  
**C-203**

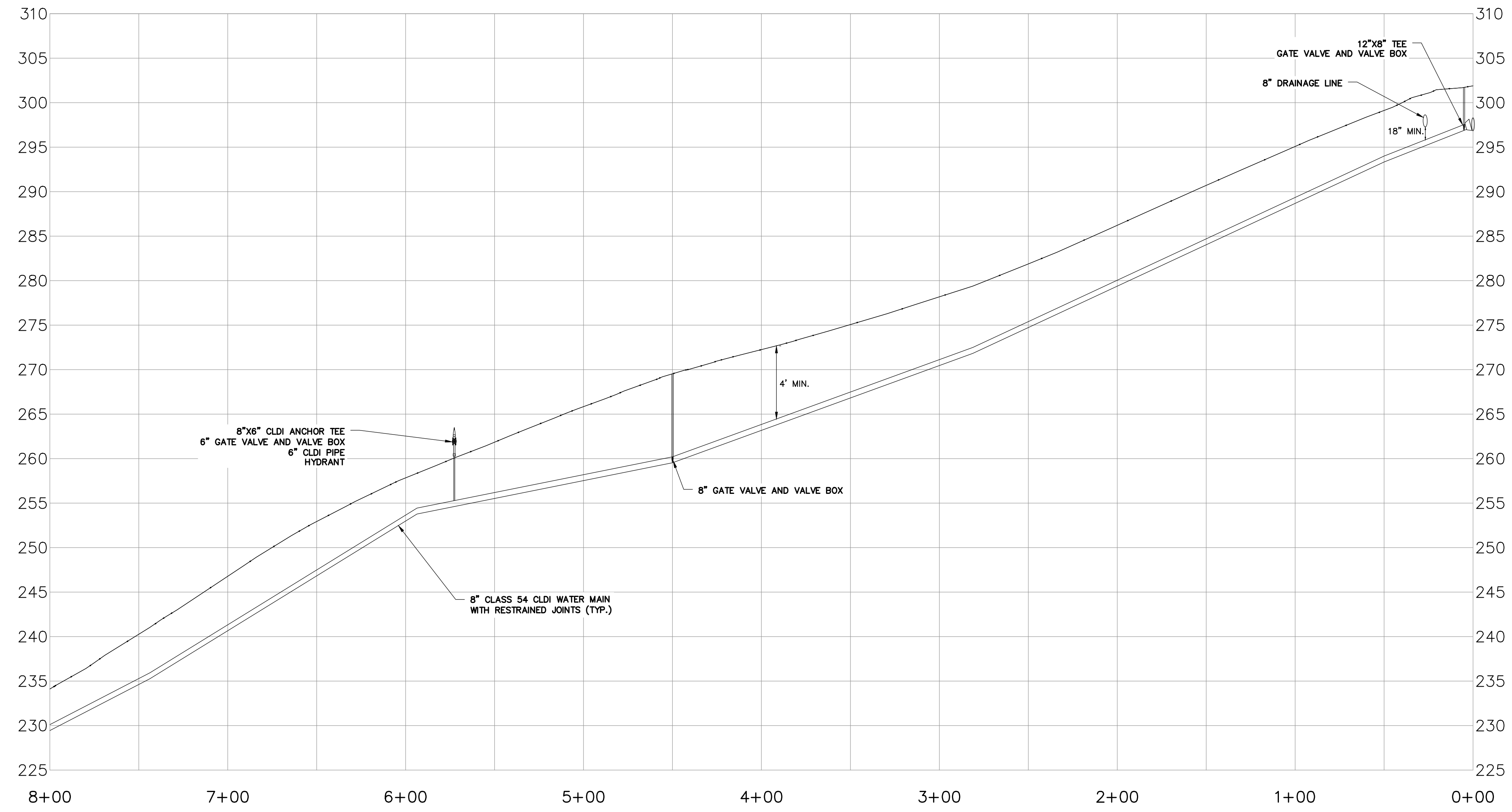
\\woodardcurran.com\Projects\214356-Village of Tarrytown-Phase VII Water Main Replacements.dwg, Jul 19, 2023 - 11:10am, AGLIERRO

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B

C

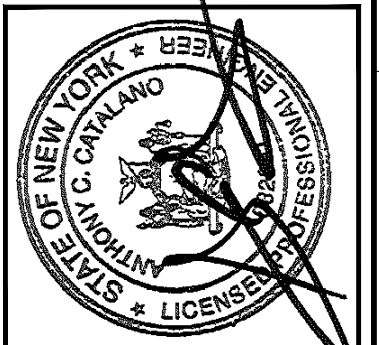
D



HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 8'  
**PROFILE STA. 0+00 TO STA. 8+00**

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DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: ZBIS, PHASE WATER.dwg

**MARTLING AVENUE WATER MAIN REPLACEMENT PROFILE STA. 00+00 TO 08+00**

VILLAGE OF TARRYTOWN  
 4 DIVISION STREET, TARRYTOWN, NY 10591  
 PHASE VII-B WATER MAIN REPLACEMENTS

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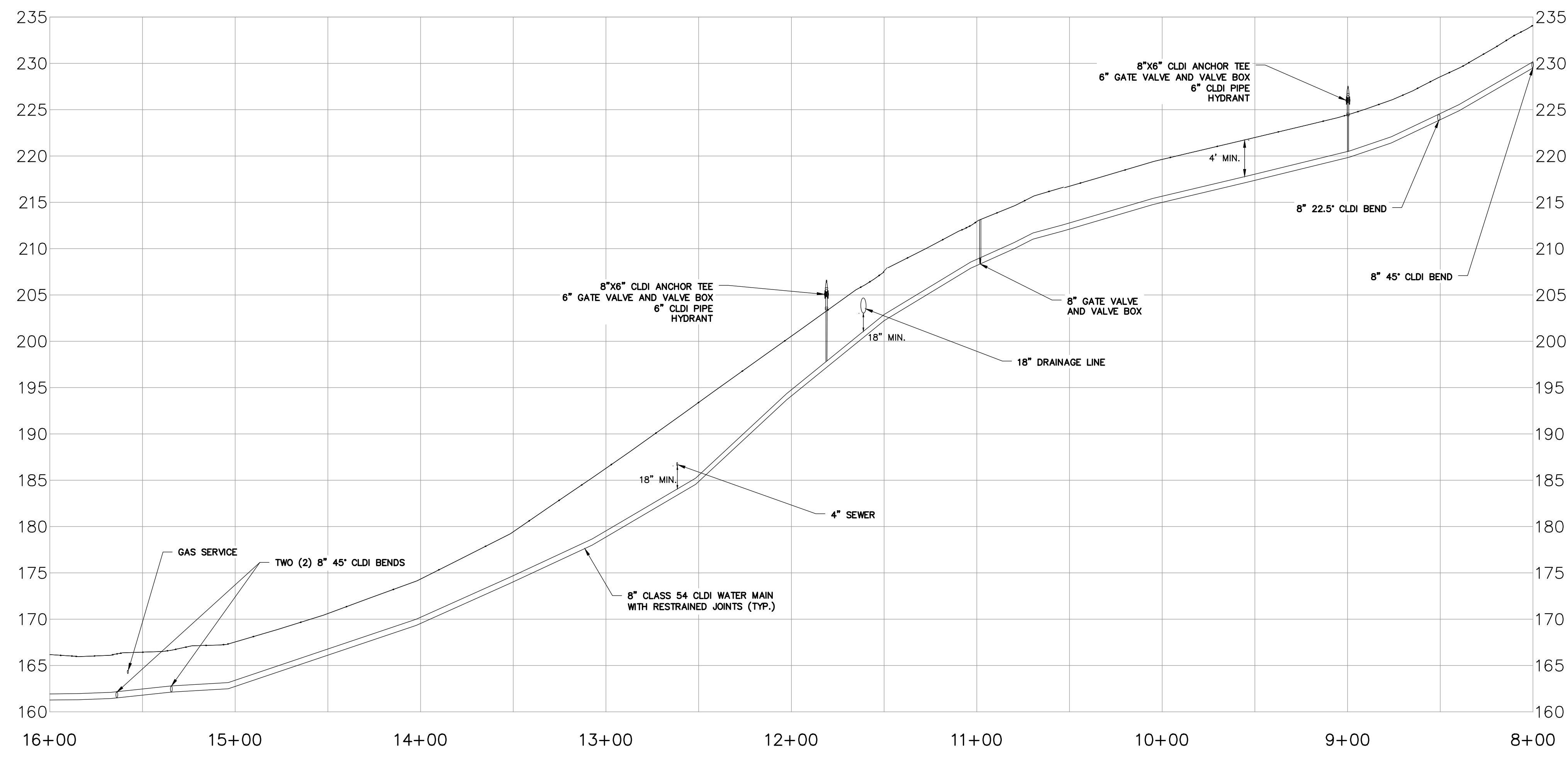
JOB NO.: 214356  
 DATE: JULY 2023  
 SCALE: AS NOTED  
 SHEET: 7 OF 11  
**C-204**

A

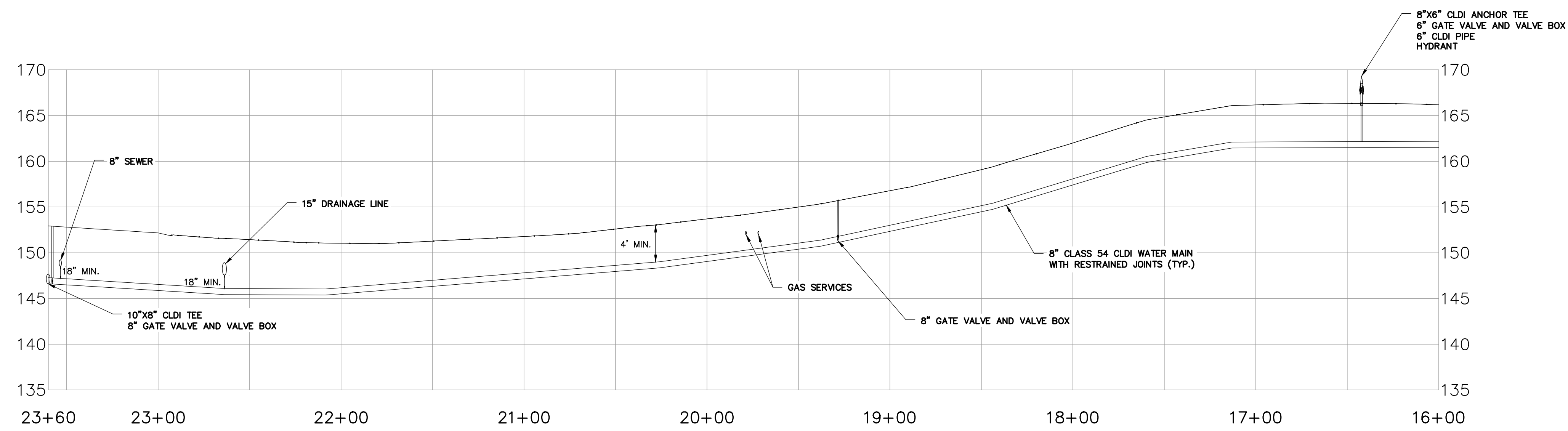
B

C

D



HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 8'  
**PROFILE STA. 8+00 TO STA. 16+00**



HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 8'  
**PROFILE STA. 16+00 TO STA. 23+60**

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 DATE: \_\_\_\_\_

**MARTLING AVENUE WATER MAIN REPLACEMENT PROFILE STA. 08+00 TO 23+00**

VILLAGE OF TARRYTOWN  
 4 DIVISION STREET, TARRYTOWN, NY 10591

PHASE VII-B WATER MAIN REPLACEMENTS

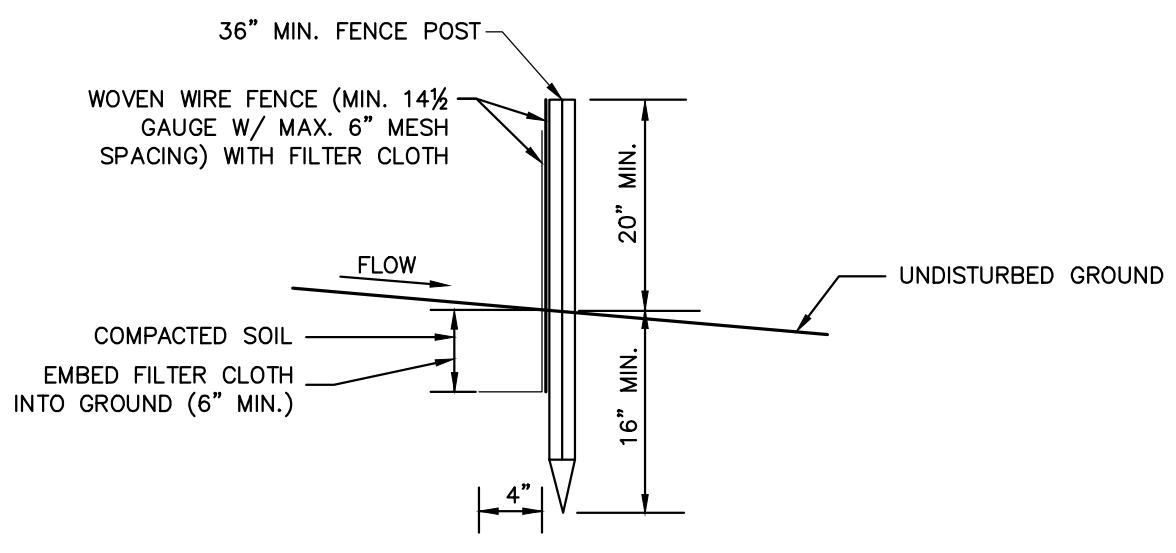
JOB NO.: 214356  
 DATE: JULY 2023  
 SCALE: AS NOTED  
 SHEET: 8 OF 11

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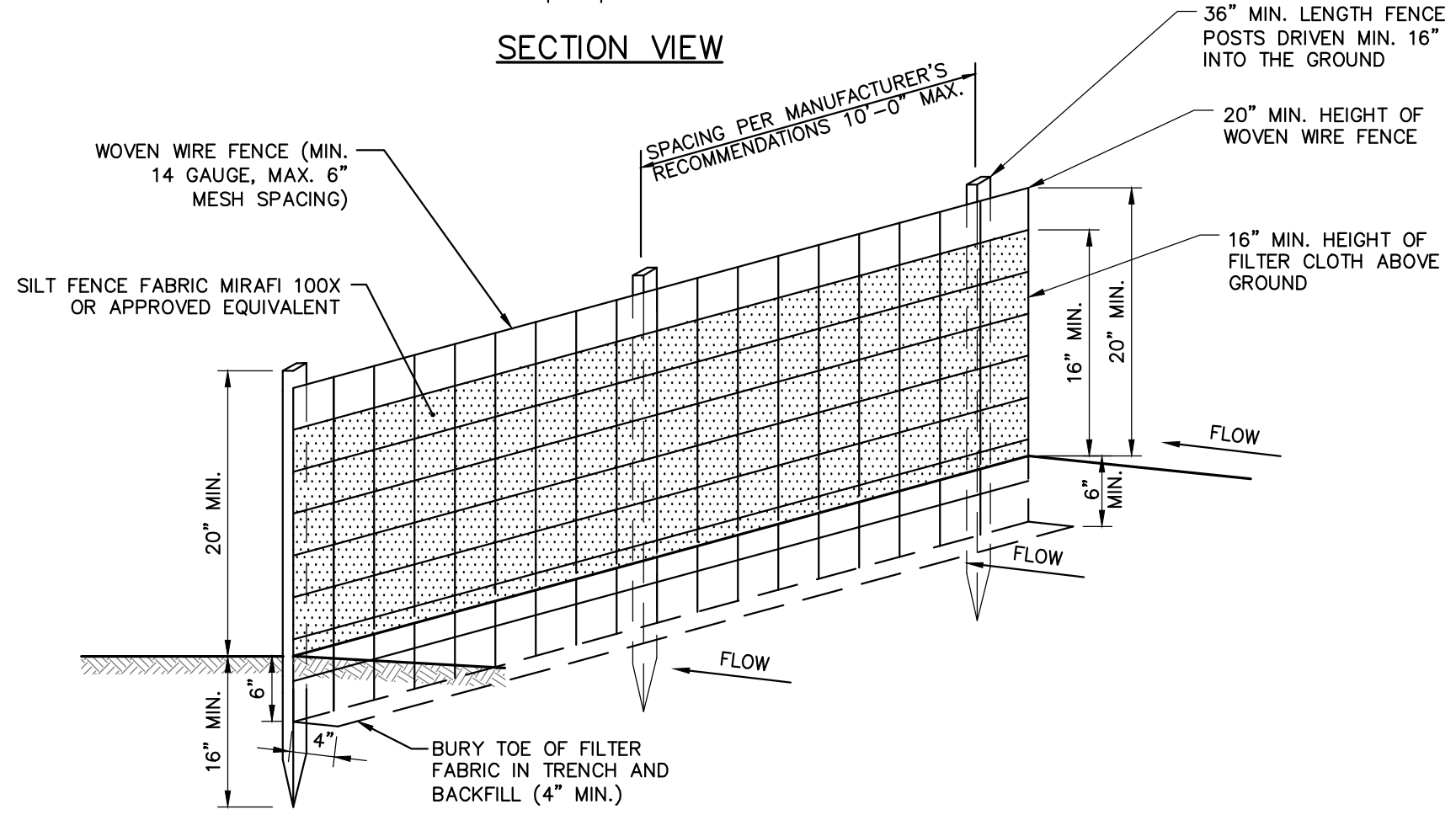
**C-205**

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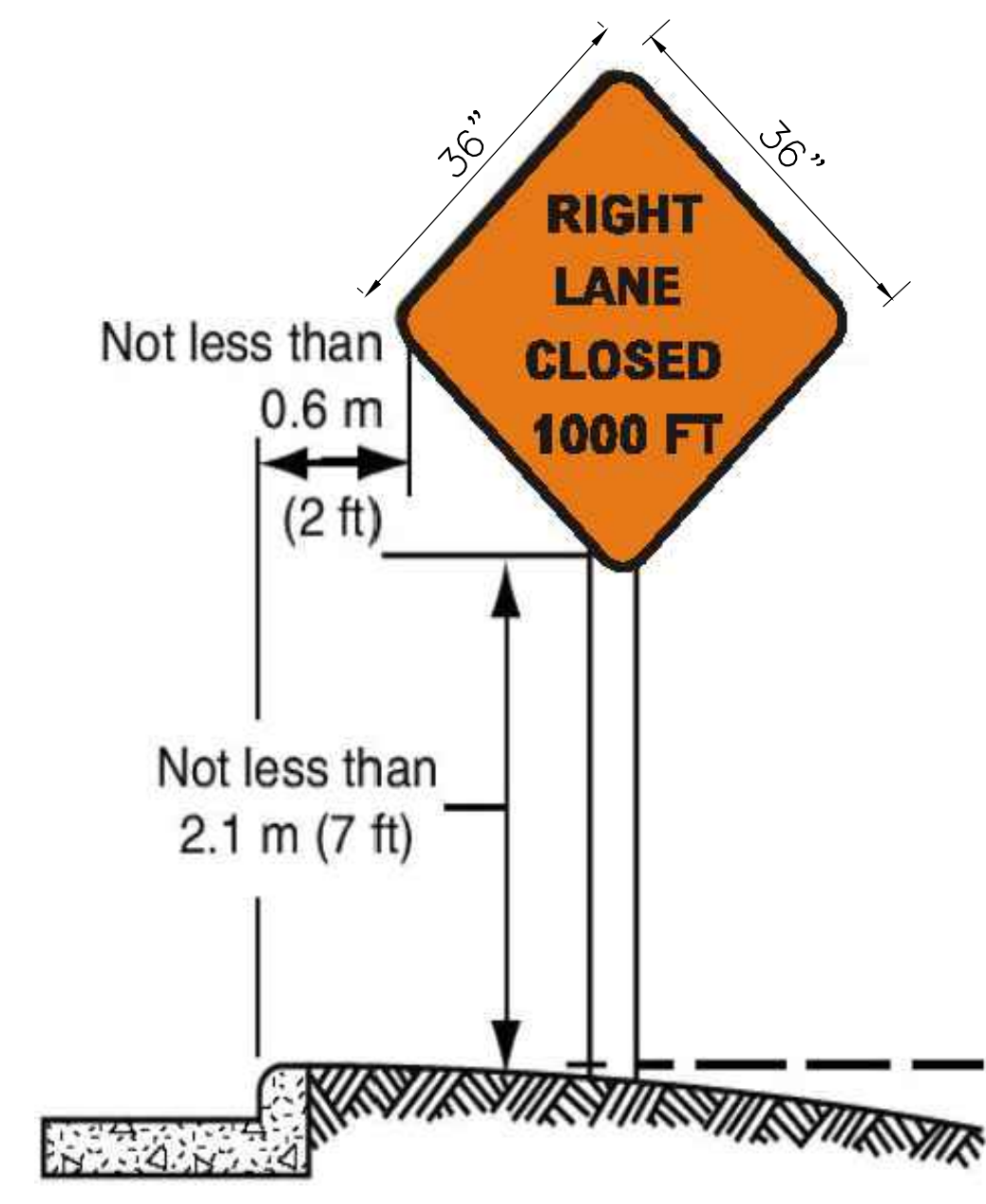
SECTION VIEW



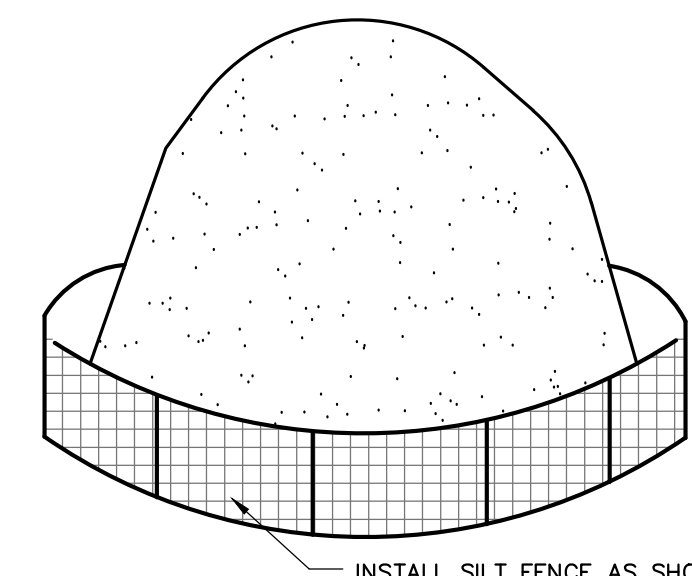
PERSPECTIVE VIEW

- NOTES:
- WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL, EITHER "T" OR "U" TYPE OR HARDWOOD.
  - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
  - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABLINKA T140N, OR APPROVED EQUIVALENT.
  - PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
  - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
  - INSTALL FABRIC ON UPHILL SIDE OF SUPPORT POSTS.
  - SILT FENCE SHALL NOT BE USED IN DRAINAGE WAYS.

1 SILT FENCE  
SCALE: N.T.S.



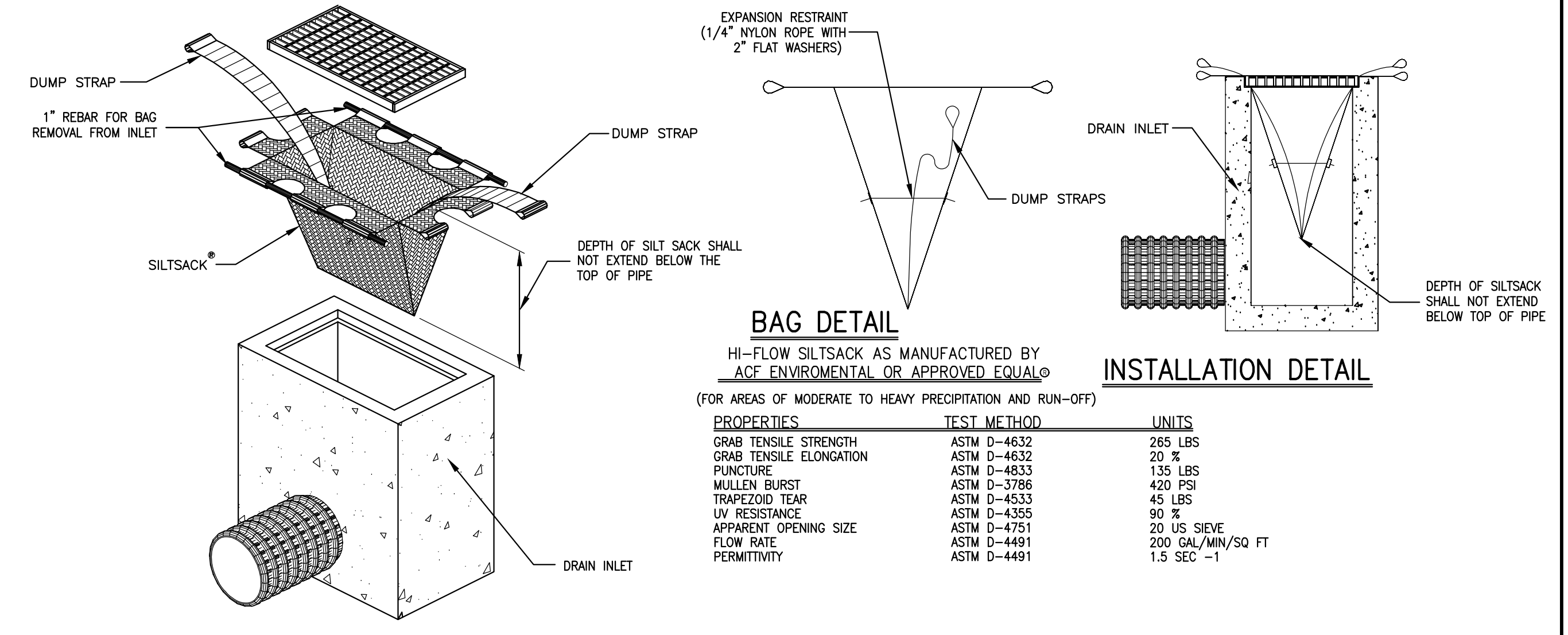
4 NYSDOT ROAD SIGN DIMENSIONS  
N.T.S.



INSTALL SILT FENCE AS SHOWN ON DETAIL NO. 1 ON THIS DRAWING

- NOTES:
- ALL STOCKPILES SHALL BE SURROUNDED BY SILT FENCING.
  - STOCKPILES SHALL HAVE A MAXIMUM 2:1 (H:V) SIDE SLOPE.
  - REPAIR/OR REPLACE ANY SILT FENCING DAMAGED DUE TO CONSTRUCTION ACTIVITIES OR STOCKPILE MITIGATION.
  - STOCKPILE SHALL BE LOCATED IN AREAS AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER.

2 TEMPORARY SOIL STOCKPILE AREA  
SCALE: N.T.S.



BAG DETAIL

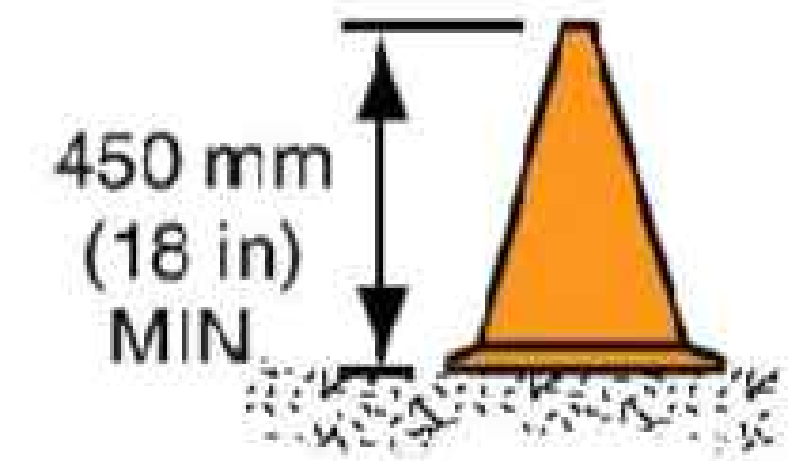
INSTALLATION DETAIL

HI-FLOW SILTSACK AS MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL<sup>®</sup>

(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4356	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

3 SILTSACK  
SCALE: N.T.S.



5 NYSDOT TRAFFIC CONE  
N.T.S.

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REV	DESCRIPTION	DATE	CHECKED BY:	DRAWN BY:

CONSTRUCTION DETAILS  
SHEET 1

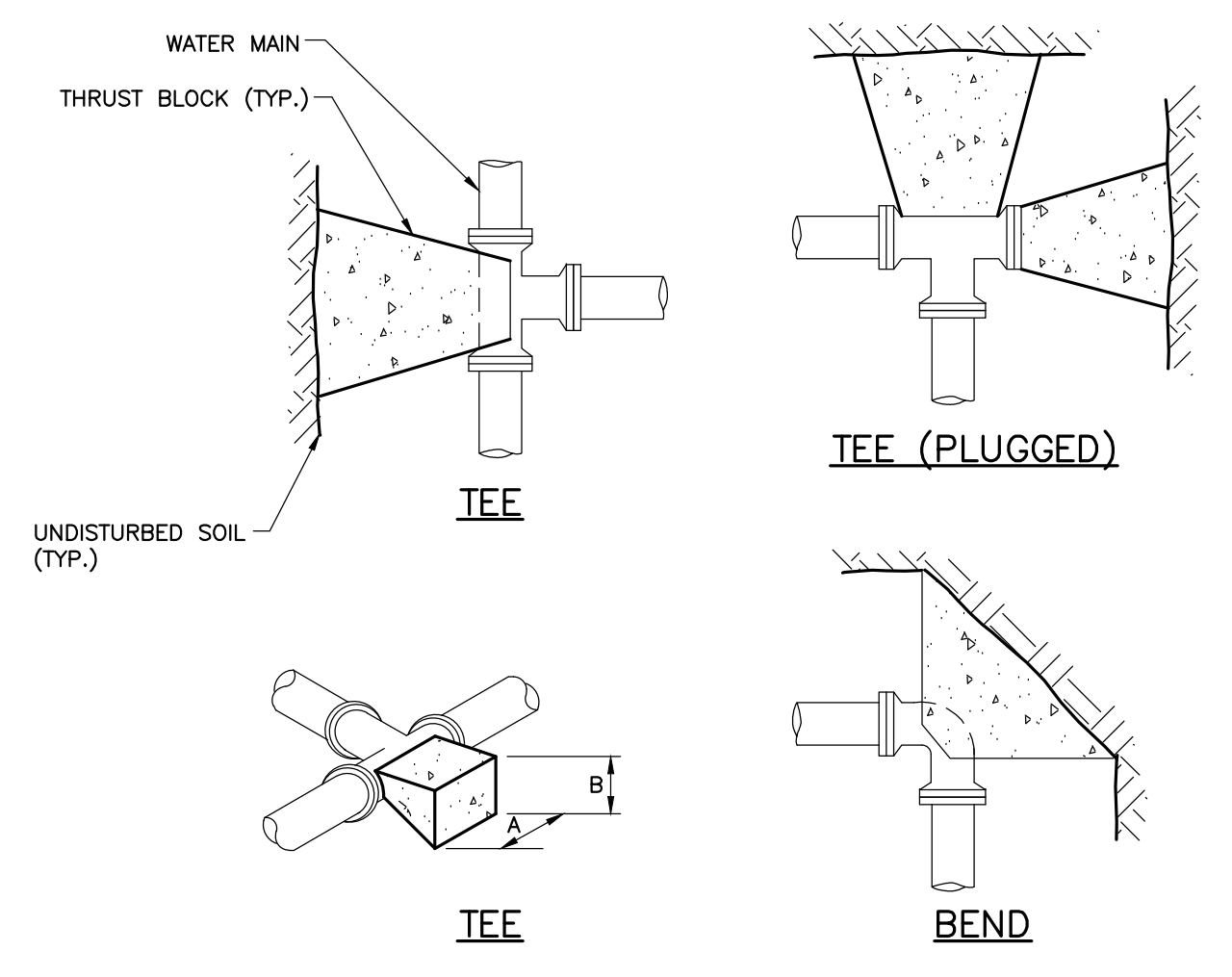
VILLAGE OF TARRYTOWN  
4 DIVISION STREET, TARRYTOWN, NY 10591

PHASE VII-B WATER MAIN REPLACEMENTS

JOB NO.: 214356  
DATE: JULY 2023  
SCALE: AS NOTED  
SHEET: 9 OF 11

C-300

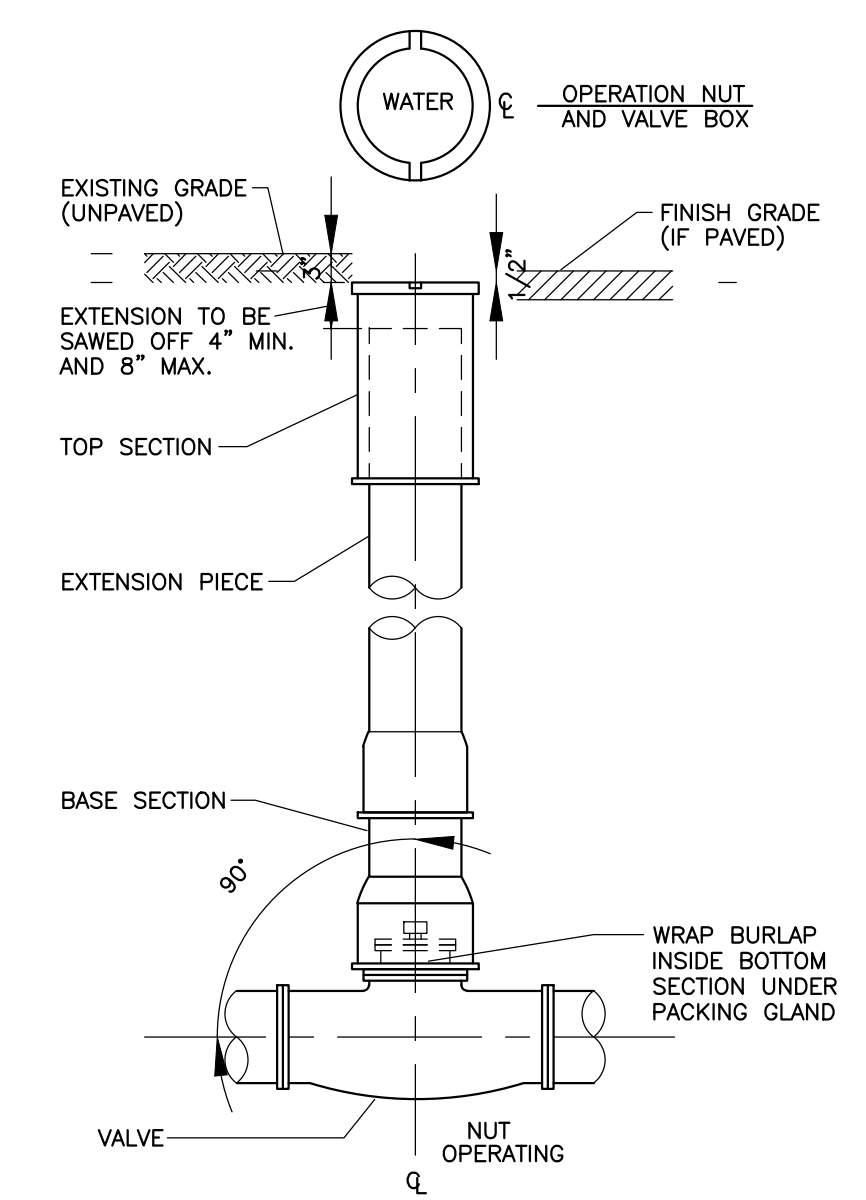
I:\work\shared\projects\214356\14356\_Village of Tarrytown - Phase VII Water Main (Rwip Drawings)\Current\214356\_Phase VII Water Main Replacements.dwg, Jul 17, 2023 - 4:49pm, AGLIERREDO



SOIL TYPE	TEES		BENDS	
	A	B	A	B
SOFT CLAY	48"	24"	48"	24"
SAND	24"	24"	24"	24"
GRAVEL	24"	18"	24"	18"

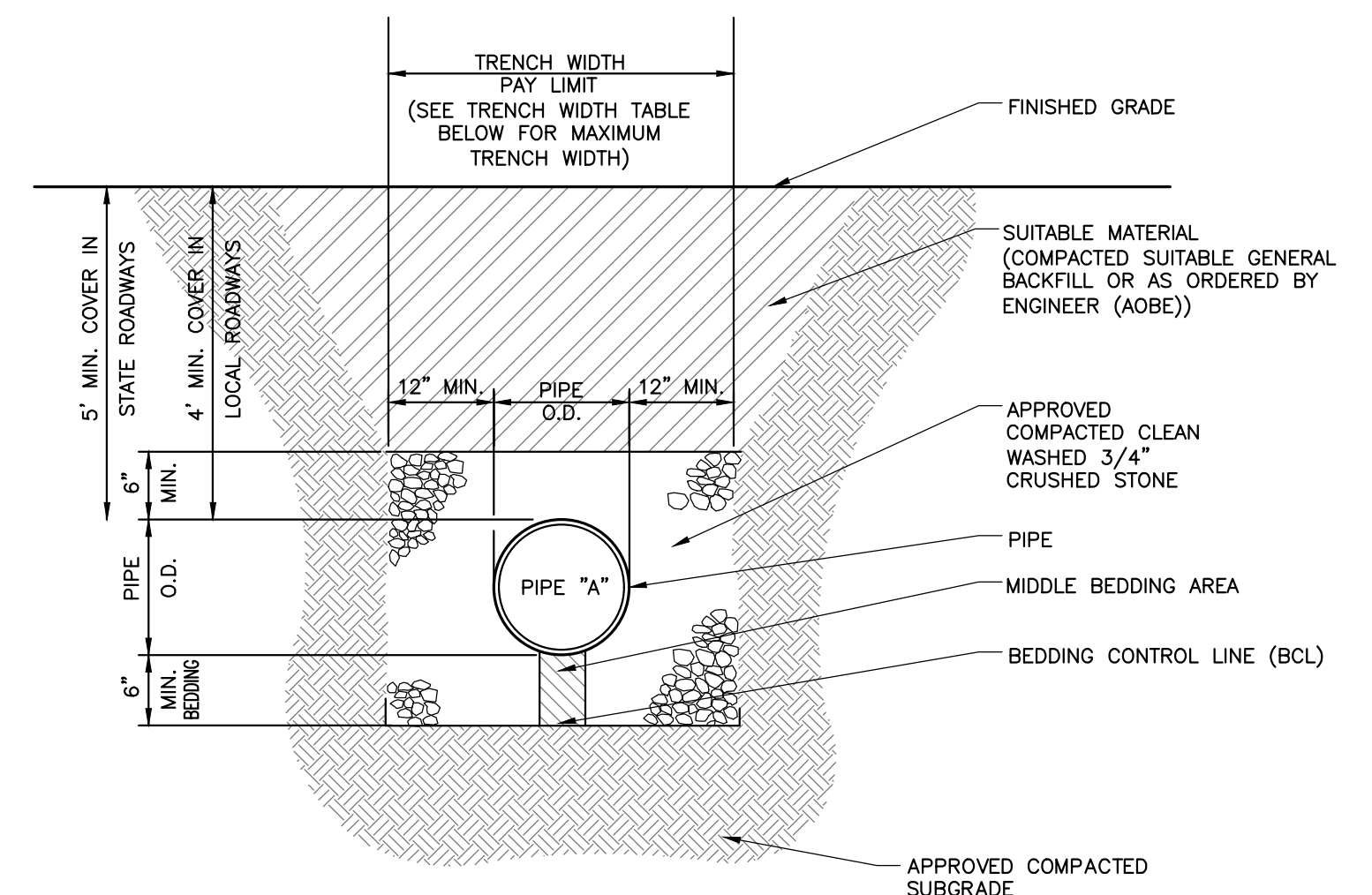
- NOTES:**
- CONCRETE FOR ALL THRUST BLOCKS TO BE MINIMUM 3,000 PSI, 28 DAY STRENGTH, TYPE 1 CEMENT, 3/4" STONE.
  - WHERE POSSIBLE, CONSTRUCT THRUST BLOCKS AGAINST UNDISTURBED SOIL. WHERE NOT POSSIBLE, PLACE FILL BETWEEN THE THRUST BLOCK AND THE UNDISTURBED SOIL COMPACTED TO 90% STANDARD PROCTOR DENSITY.
  - WRAP FITTINGS WITH POLYETHYLENE PRIOR TO CONSTRUCTING THRUST BLOCKS. NO JOINTS SHALL BE COVERED WITH CONCRETE.
  - THRUST BLOCK DIMENSIONS ARE BASED ON A MAXIMUM WATER MAIN PRESSURE OF 150 PSI.

**1 ANCHOR AND THRUST BLOCKS**  
SCALE: N.T.S.



- NOTE:**
- ALL BOLTS ON ALL VALVES SHALL BE MADE OF STAINLESS STEEL.

**2 GATE VALVE AND VALVE BOX**  
SCALE: N.T.S.

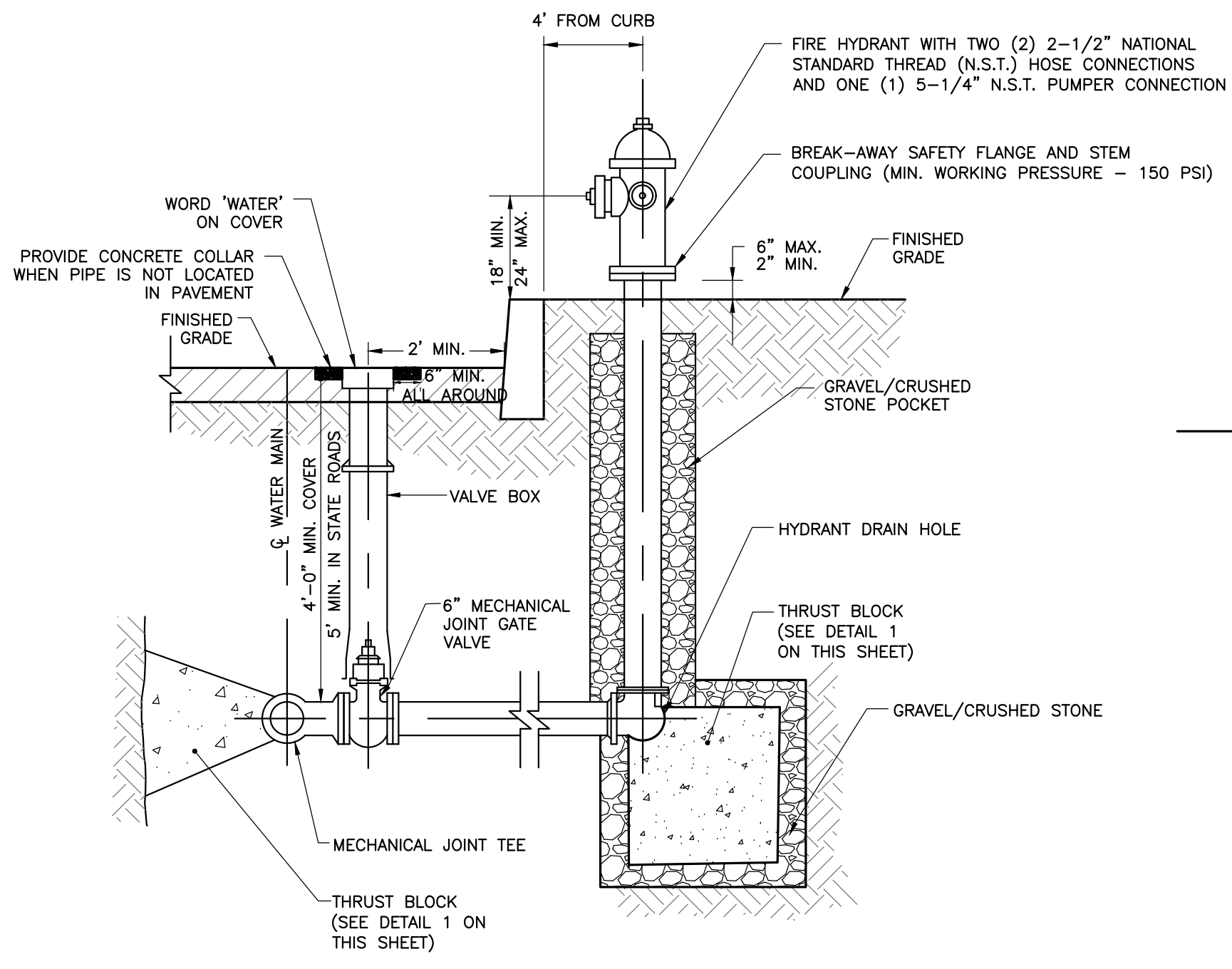


- NOTES:**
- MAINTAIN UNIFORM TRENCH WIDTH TO 6" OVER PIPE.
  - IF SHEETING IS REQUIRED TO REMAIN, CUT OFF TWO (2) FEET BELOW FINISH GRADE.
  - NO PAYMENT WILL BE MADE FOR SHEETING LEFT IN PLACE UNLESS DIRECTED BY ENGINEER.
  - IF GROUNDWATER IS ENCOUNTERED, WRAP STONE WITH MIRAFI 140N FILTER FABRIC OR APPROVED EQUAL.
  - SEE PAVEMENT REPAIR DETAILS FOR ROAD WORK AREAS.
  - PROVIDE 6" MIN. BEDDING FOR AREAS OF EXCAVATION IN ROCK.

PIPE SIZE	MAX (ONE PIPE)
15" OR LESS	4'-0"
18"	5'-0"
24"	5'-6"
30"	6'-0"
36"	6'-6"
42"	7'-0"
48"	7'-6"
MANHOLES	O.D. + 6'-0"
CATCH BASINS	O.D. + 6'-0"

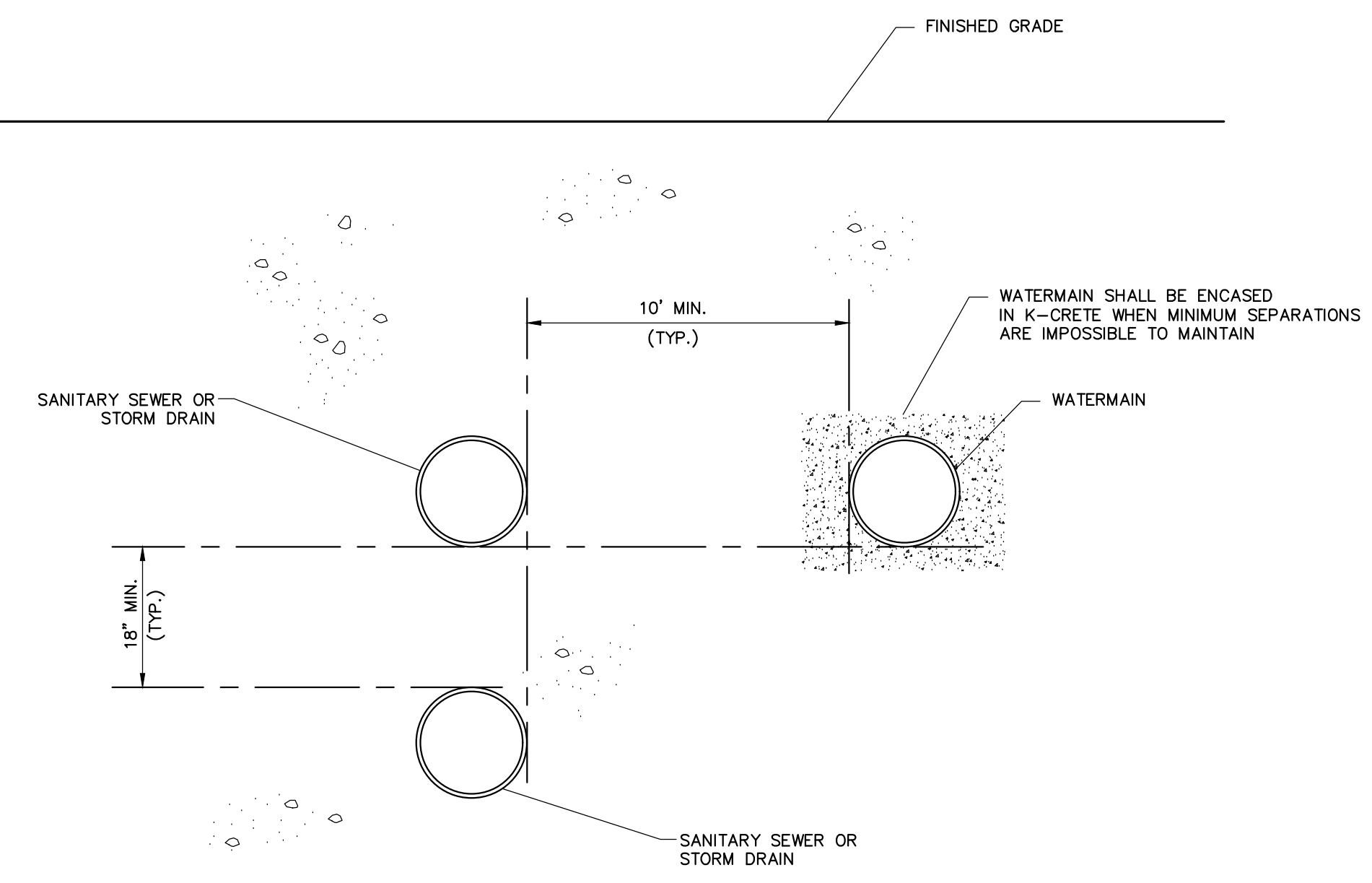
- a. REPRESENTS PAYMENT LIMIT  
b. FOR ROCK EXCAVATION SUBTRACT 1'-0"

**3 TYPICAL PIPE TRENCH**  
SCALE: N.T.S.



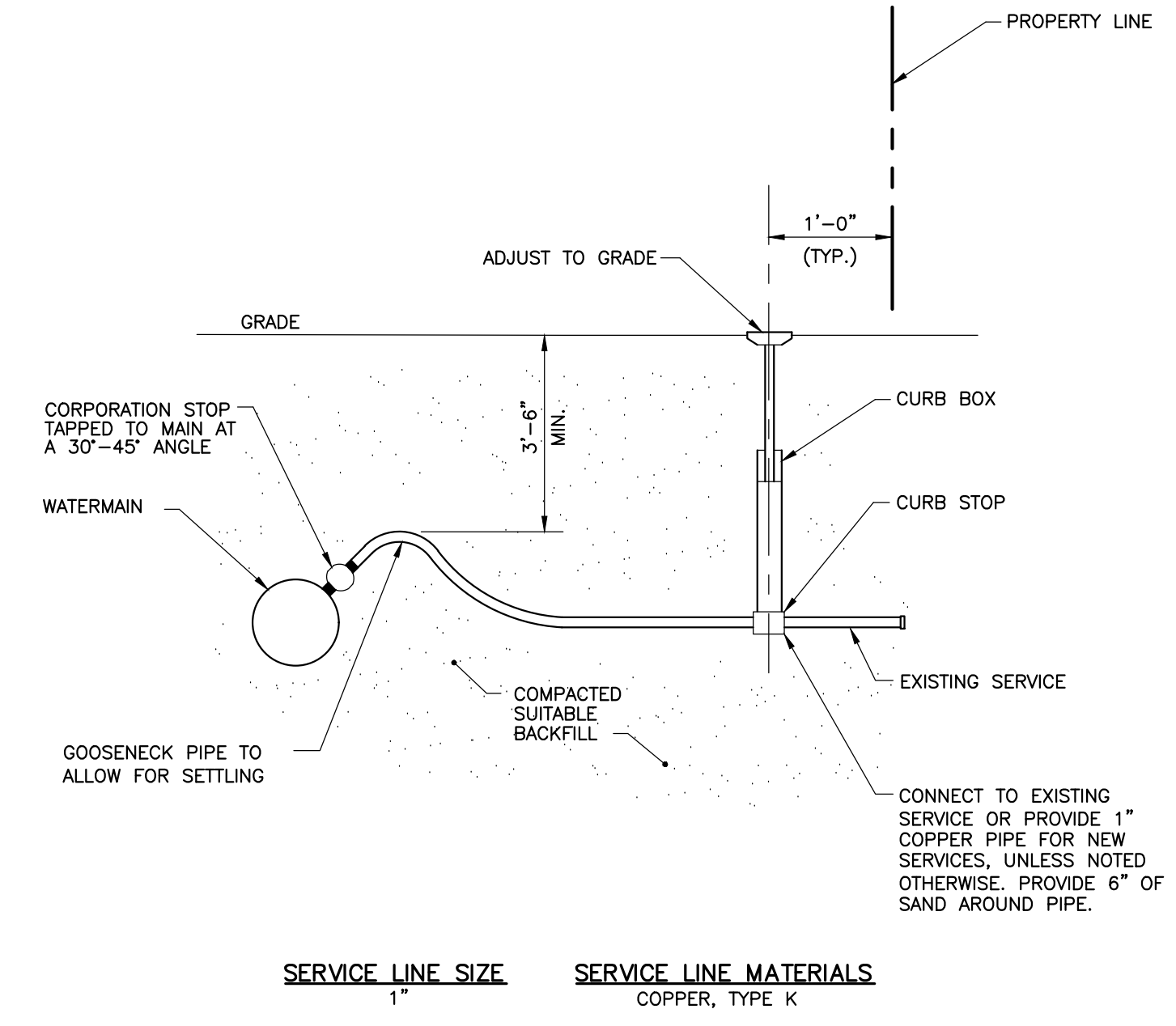
- NOTE:**
- CONTRACTOR SHALL VERIFY THE LIMIT OF R.O.W. BEFORE LOCATING HYDRANTS.
  - CONTRACTOR SHALL MAKE DIMENSION ADJUSTMENTS TO SUIT FIELD CONDITIONS. ANY DEVIATION FROM THE DISTANCES SPECIFIED ABOVE SHALL BE APPROVED BY THE OWNER.
  - IF GROUND WATER IS FOUND WITHIN SEVEN FEET OF THE GROUND SURFACE, THEN HYDRANT DRAINS SHOULD BE PLUGGED. WHEN THE DRAINS ARE PLUGGED, THE BARRELS MUST BE PUMPED DRY AFTER USE DURING FREEZING WEATHER. WHERE HYDRANT DRAINS ARE NOT PLUGGED, A GRAVEL POCKET OR DRY WELL SHALL BE PROVIDED. HYDRANT DRAINS SHALL NOT BE CONNECTED TO OR LOCATED WITHIN 10 FEET OF SANITARY SEWERS OR STORM DRAINS.
  - EXTERIOR OF HYDRANT ABOVE GROUND SHALL RECEIVE TWO FINISH COATS OF PAINT. COLOR OF FINAL ENAMEL COAT TO BE AS DIRECTED BY OWNER.
  - C.I. BARREL: INTERIOR TO BE ASPHALTUM COATED (ALL WATER PASSAGEWAYS); EXTERIOR BELOW GROUND TO BE ASPHALTUM COATED.
  - CONTRACTOR TO PROVIDE HYDRANT EXTENSIONS AS NEEDED TO ADJUST AND INSURE THE PROPER HYDRANT HEIGHT ABOVE GRADE LEVEL. HYDRANT BURY LINE SHALL MATCH GRADE LEVEL AS APPROVED BY THE OWNER.
  - ANCHOR TEES WILL NOT BE ACCEPTED AS PART OF THE HYDRANT ASSEMBLY.
  - NIPPLE LENGTH WILL VARY TO PROPERLY PLACE THE HYDRANT VALVE AS SHOWN.

**4 HYDRANT INSTALLATION**  
SCALE: N.T.S.



- NOTES:**
- IN ANY INSTANCE THAT A WATER MAIN CROSSES OVER OR UNDER A SANITARY LINE OR STORM DRAIN, ALL PIPES SHALL BE INSTALLED TO PROVIDE A VERTICAL SEPARATION OF AT LEAST 18 INCHES, AS MEASURED FROM THE OUTER BOTTOM OF THE HIGHER PIPE TO THE CROWN OF THE LOWER PIPE. WATER PIPE SHALL CROSS ABOVE SANITARY SEWER LINE OR STORM DRAIN WHEREVER POSSIBLE. PIPE SEPARATION REQUIREMENTS ARE NOT APPLICABLE IF PIPE IS ENCASED IN KRETE.
  - FOR ALL CROSSINGS, A FULL LENGTH OF WATER PIPE MUST BE CENTERED AT THE POINT OF CROSSING. THERE SHALL BE NO JOINTS PERMITTED AT THE POINT OF CROSSING.
  - FOR ANY CROSSING OF A WATER MAIN BELOW AN EXISTING OR PROPOSED SANITARY SEWER LINE, ADEQUATE STRUCTURAL SUPPORT MUST BE PROVIDED FOR THE SANITARY LINE IN ORDER TO PREVENT SETTLING.

**5 WATER AND SANITARY SEWER OR STORM DRAIN PIPE SEPARATION**  
SCALE: N.T.S.



- NOTES:**
- CORPORATION STOP, CURB STOP, CURB BOX AND ENLARGED BASE FOR CURB BOX SHALL BE MUELLER COMPANY OR APPROVED EQUAL IN ACCORDANCE WITH MUELLER COMPANY CATALOG, LATEST EDITION. REFER TO PROJECT SPECIFICATIONS FOR WATER LINE PIPE, CORPORATION STOP AND CURB STOP AND BOX INFORMATION.
  - THERE SHALL BE NO JOINTS IN THE SERVICE LINE BETWEEN THE WATER MAIN AND CURB STOP.

**6 TYPICAL WATER SERVICE CONNECTION**  
SCALE: N.T.S.

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COMMITMENT & INTEGRITY DRIVE RESULTS

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REV	DESCRIPTION	DATE	CHECKED BY:	DRAWN BY:

**CONSTRUCTION DETAILS SHEET 2**

VILLAGE OF TARRYTOWN  
4 DIVISION STREET, TARRYTOWN, NY 10591

PHASE VII-B WATER MAIN REPLACEMENTS

JOB NO.: 214356
DATE: JULY 2023
SCALE: AS NOTED
SHEET: 10 OF 11

**C-301**

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

