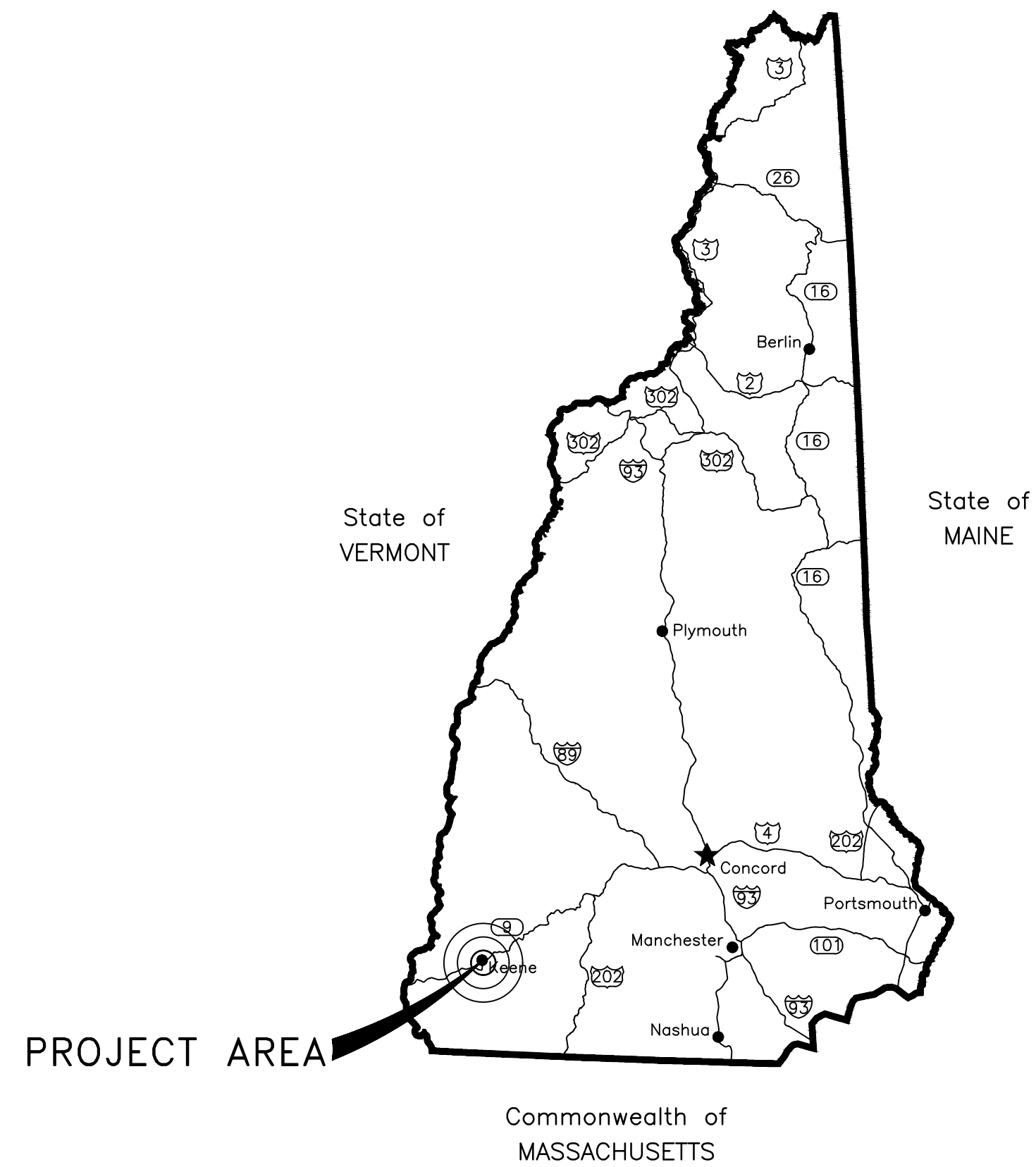


MARLBORO STREET REHABILITATION

KEENE, NH

MARCH 2019

CONTRACT: 01-19-16



Commonwealth of MASSACHUSETTS

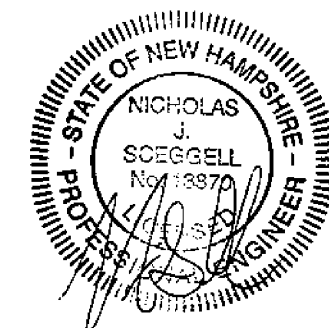
VICINITY MAP
NOT TO SCALE



831 UNION AVENUE, SUITE 2
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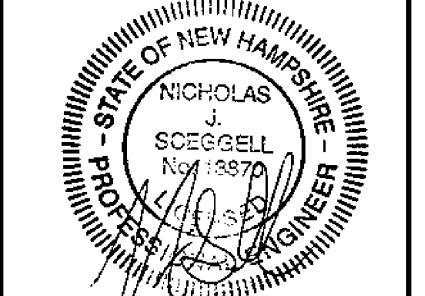
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LOCATION MAP
APPROX. SCALE: 1" = 500'

REVISION NO.	DATE	DESCRIPTION	PROJECT NO. 224696	SHEET 1 OF 28



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NO.	DATE	DESCRIPTION	BY	CHK'D

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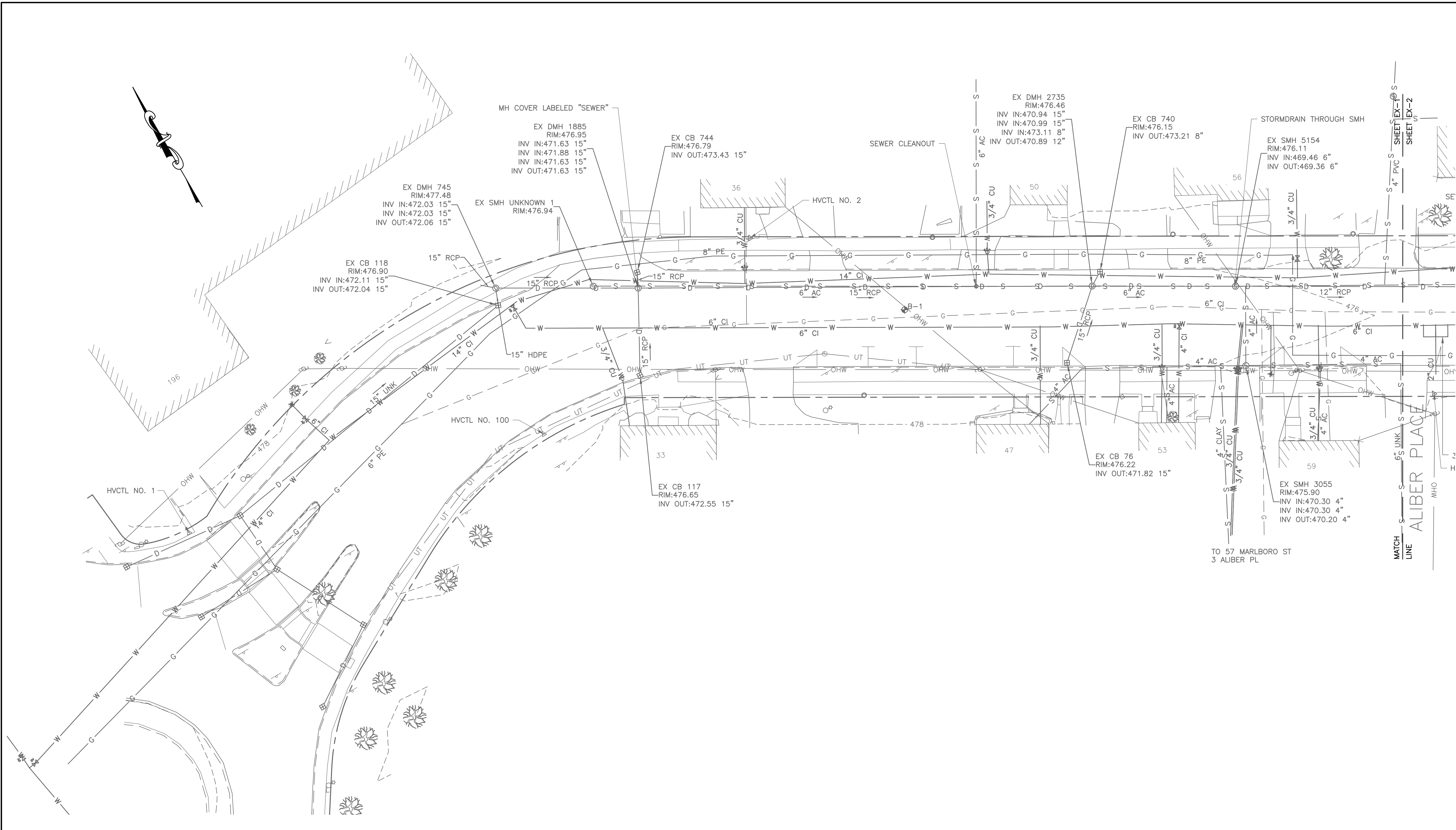
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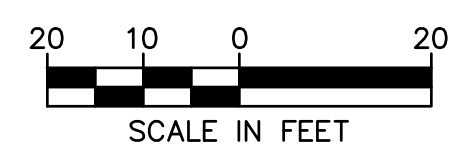
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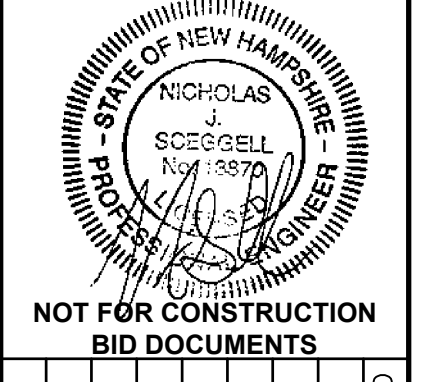
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EXISTING CONDITIONS





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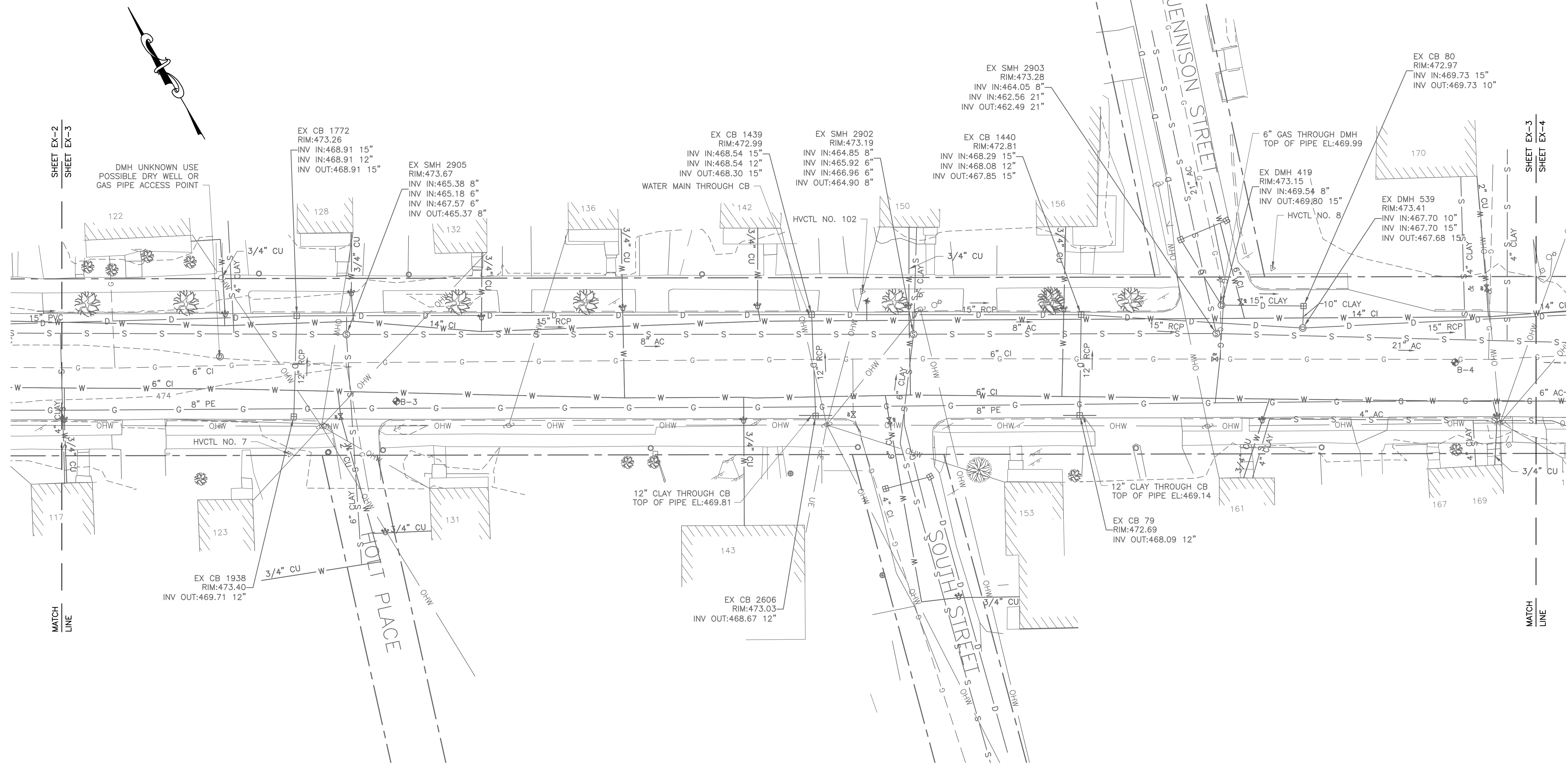
CITY OF KEENE
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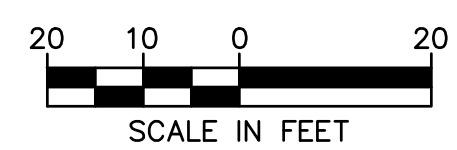
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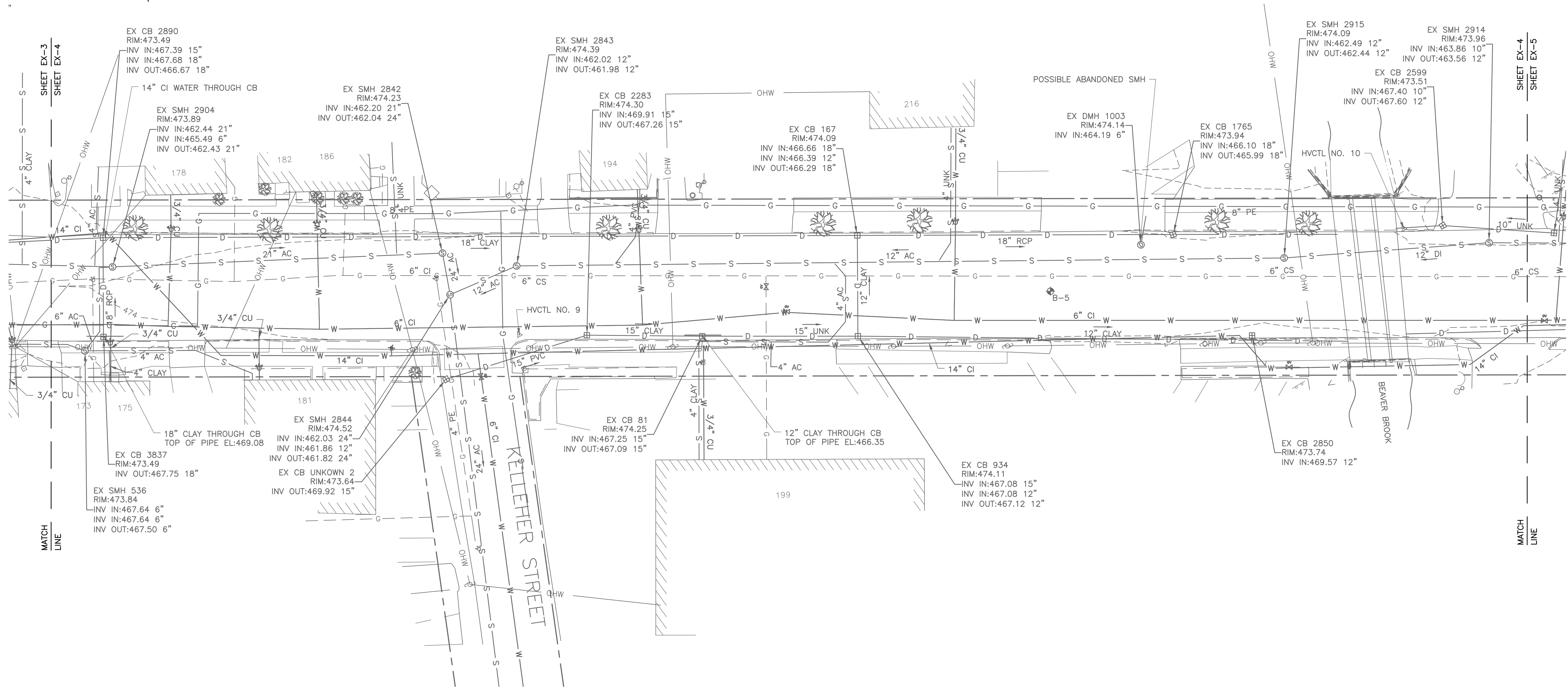
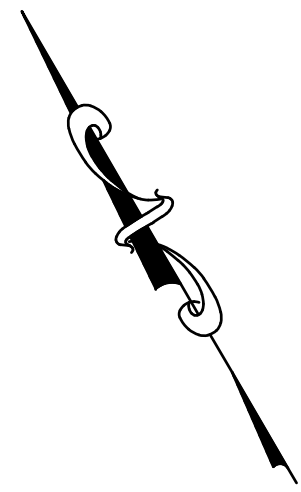
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EX-3
 SHEET 5 OF 28



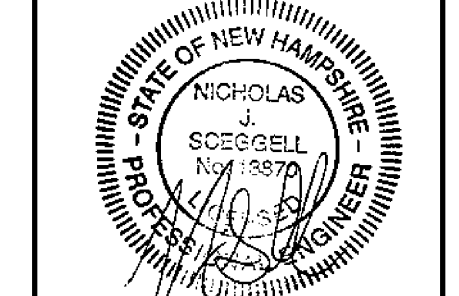
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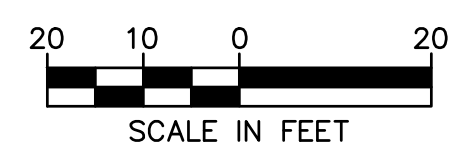
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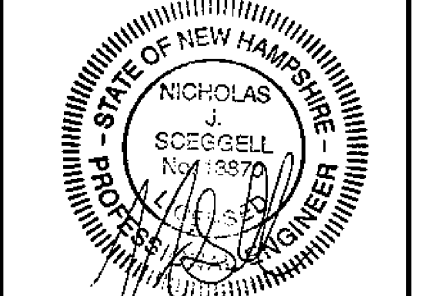
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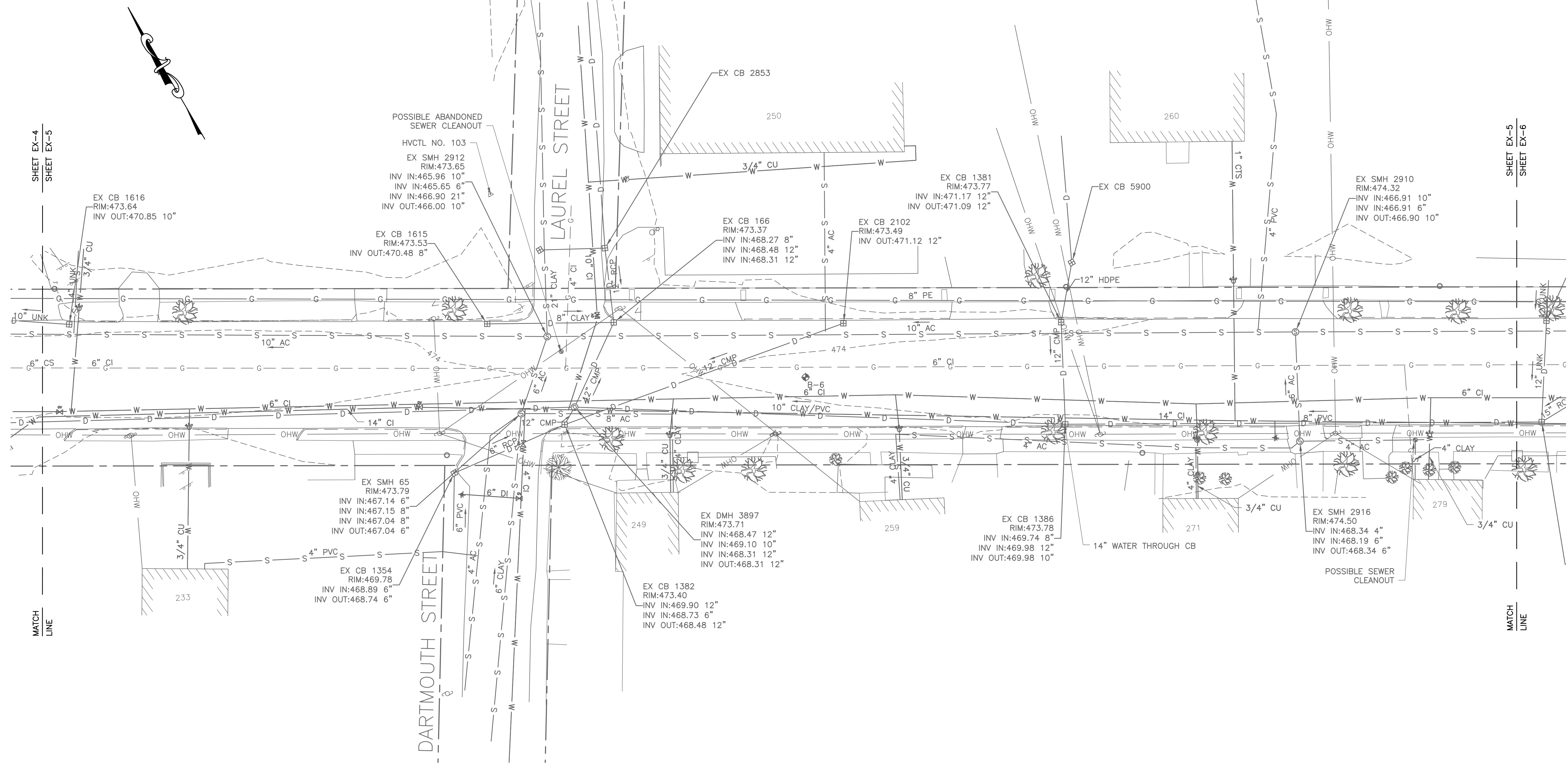
**MARLBORO STREET
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**SHEET TITLE
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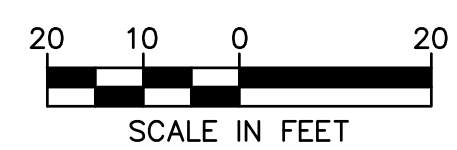
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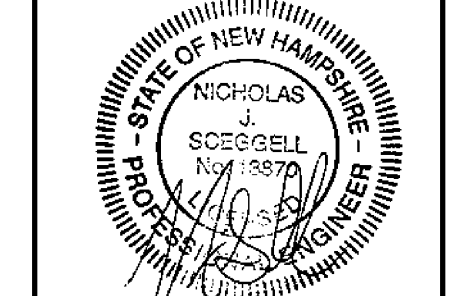
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EXISTING CONDITIONS



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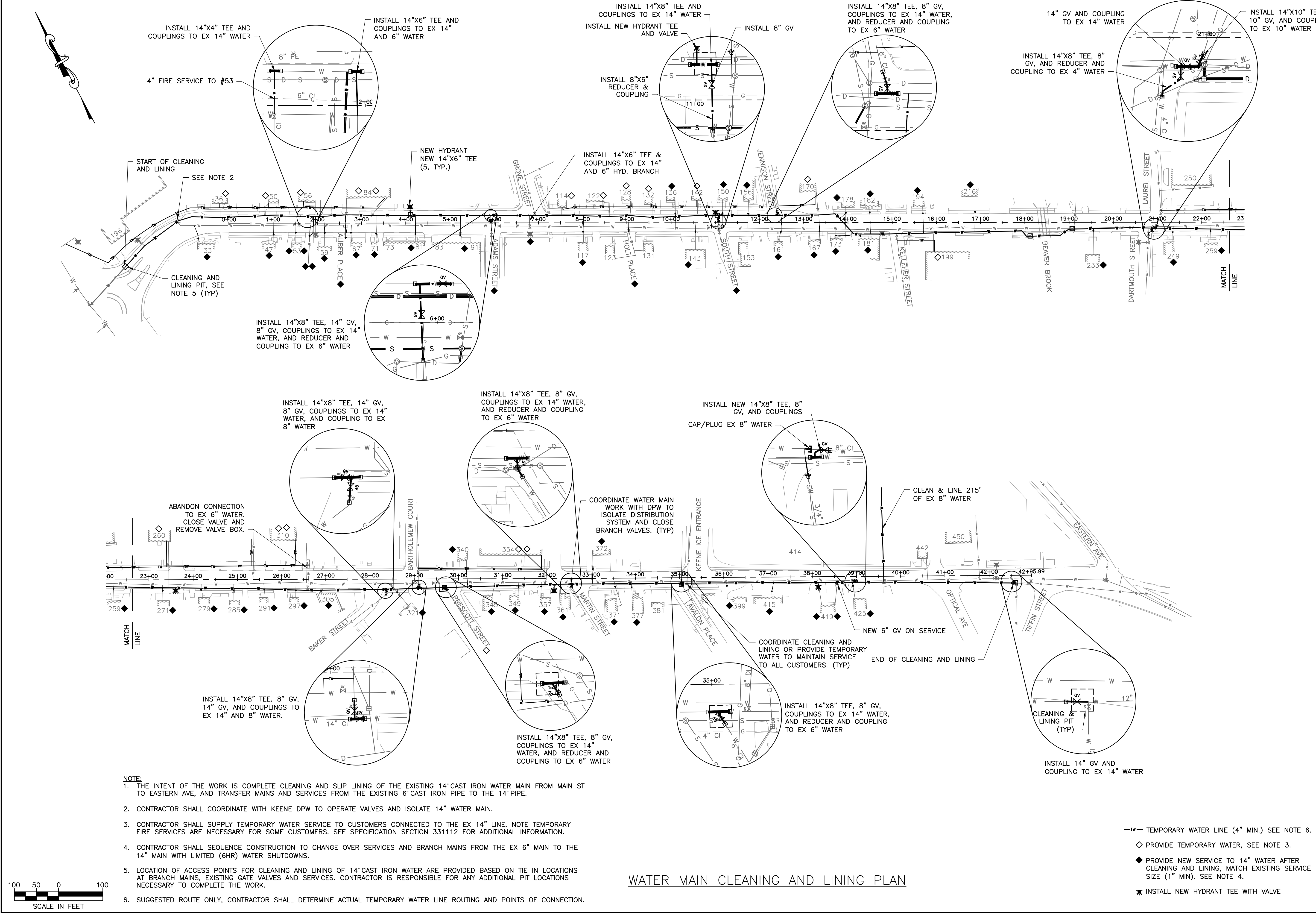
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SHEET TITLE
 WATER MAIN
 CLEANING AND
 LINING PLAN

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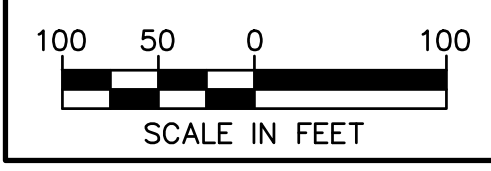
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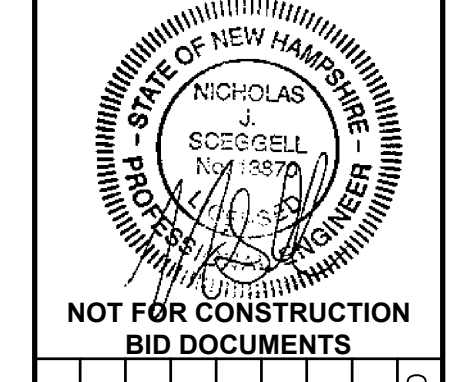


- NOTE:**
- THE INTENT OF THE WORK IS COMPLETE CLEANING AND SLIP LINING OF THE EXISTING 14" CAST IRON WATER MAIN FROM MAIN ST TO EASTERN AVE, AND TRANSFER MAINS AND SERVICES FROM THE EXISTING 6" CAST IRON PIPE TO THE 14" PIPE.
 - CONTRACTOR SHALL COORDINATE WITH KEENE DPW TO OPERATE VALVES AND ISOLATE 14" WATER MAIN.
 - CONTRACTOR SHALL SUPPLY TEMPORARY WATER SERVICE TO CUSTOMERS CONNECTED TO THE EX 14" LINE. NOTE TEMPORARY FIRE SERVICES ARE NECESSARY FOR SOME CUSTOMERS. SEE SPECIFICATION SECTION 331112 FOR ADDITIONAL INFORMATION.
 - CONTRACTOR SHALL SEQUENCE CONSTRUCTION TO CHANGE OVER SERVICES AND BRANCH MAINS FROM THE EX 6" MAIN TO THE 14" MAIN WITH LIMITED (6HR) WATER SHUTDOWNS.
 - LOCATION OF ACCESS POINTS FOR CLEANING AND LINING OF 14" CAST IRON WATER ARE PROVIDED BASED ON TIE IN LOCATIONS AT BRANCH MAINS, EXISTING GATE VALVES AND SERVICES. CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL PIT LOCATIONS NECESSARY TO COMPLETE THE WORK.
 - SUGGESTED ROUTE ONLY, CONTRACTOR SHALL DETERMINE ACTUAL TEMPORARY WATER LINE ROUTING AND POINTS OF CONNECTION.

WATER MAIN CLEANING AND LINING PLAN



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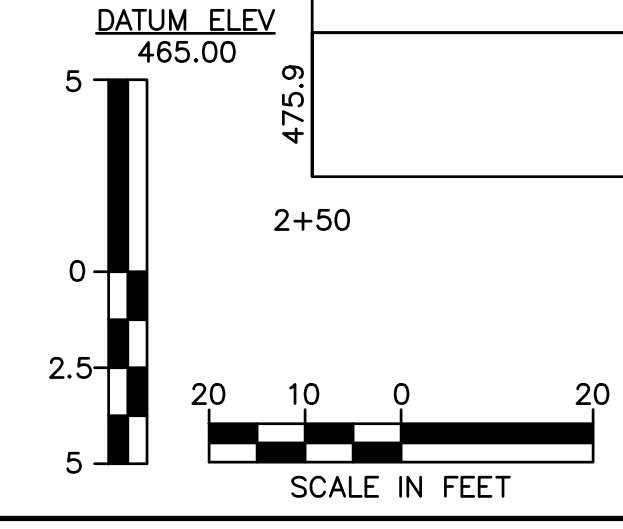
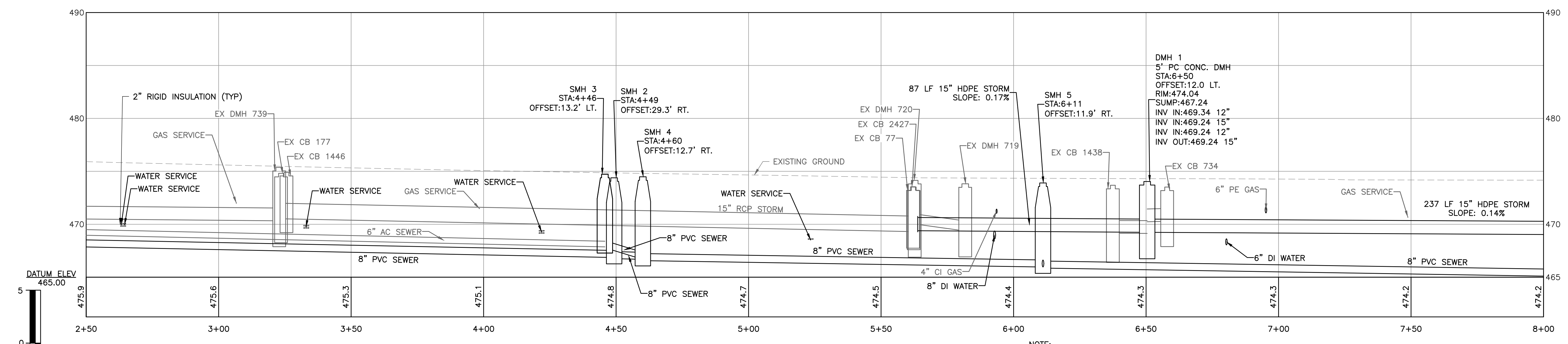
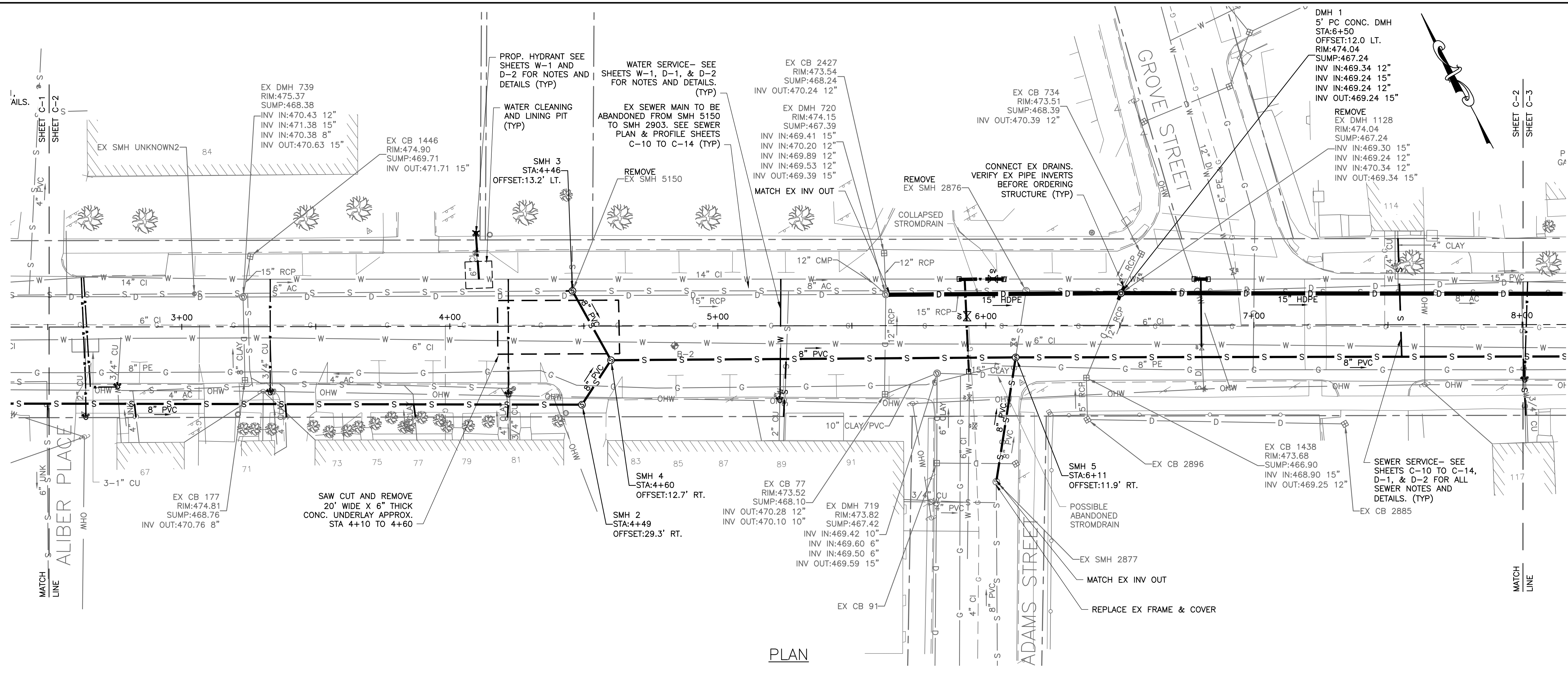
MARLBORO STREET
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SHEET TITLE
 UTILITY PLAN &
 PROFILE

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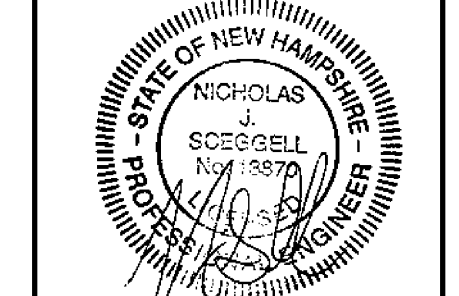
SHEET NUMBER

C-2



- NOTE:**
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 2. UNLESS OTHERWISE NOTED, CONCRETE UNDERLAY WHERE ENCOUNTERED SHALL BE SAWCUT AND REMOVED TO THE LIMITS SHOWN ON DETAIL SHEET D-1.
 3. ALL SEWER SERVICES SHALL INCLUDE A CLEANOUT AT THE CONNECTION TO EXISTING SEWER SERVICE PIPE.

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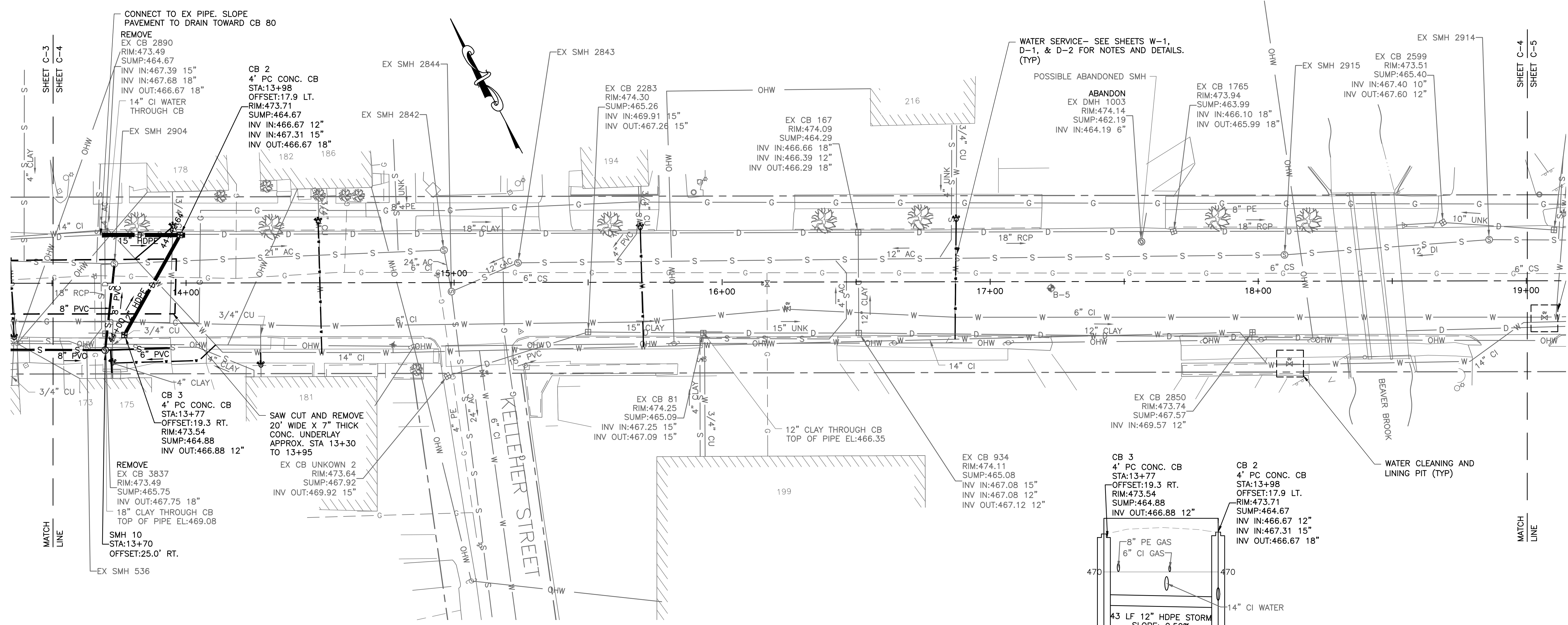
MARLBORO STREET
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SHEET TITLE
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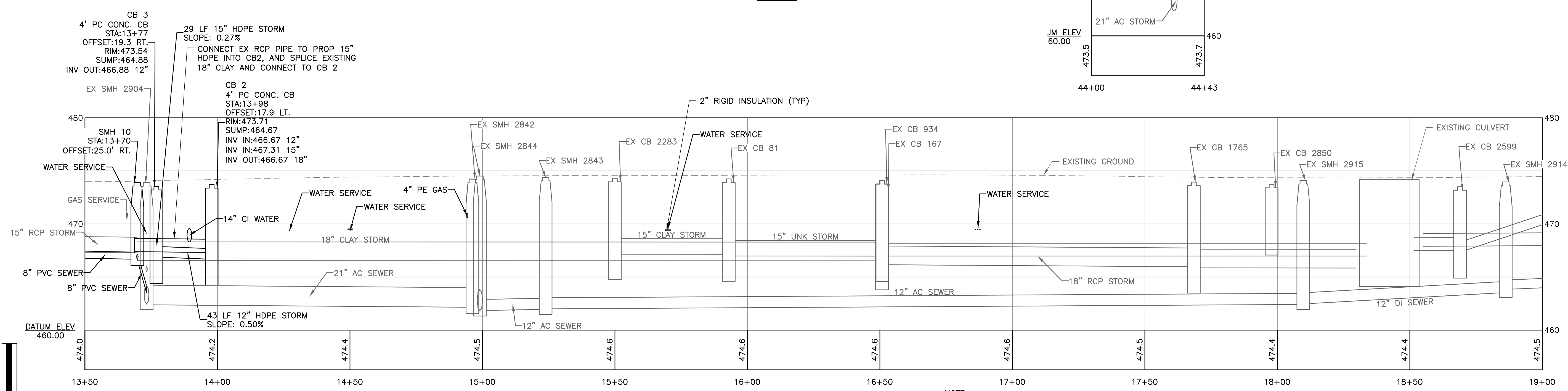
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C-4



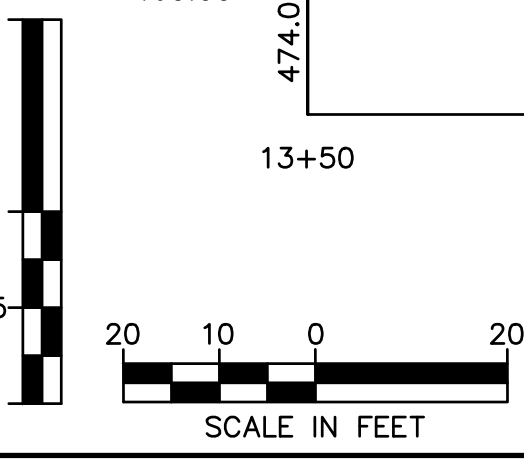
PLAN



PROFILE

- NOTE:
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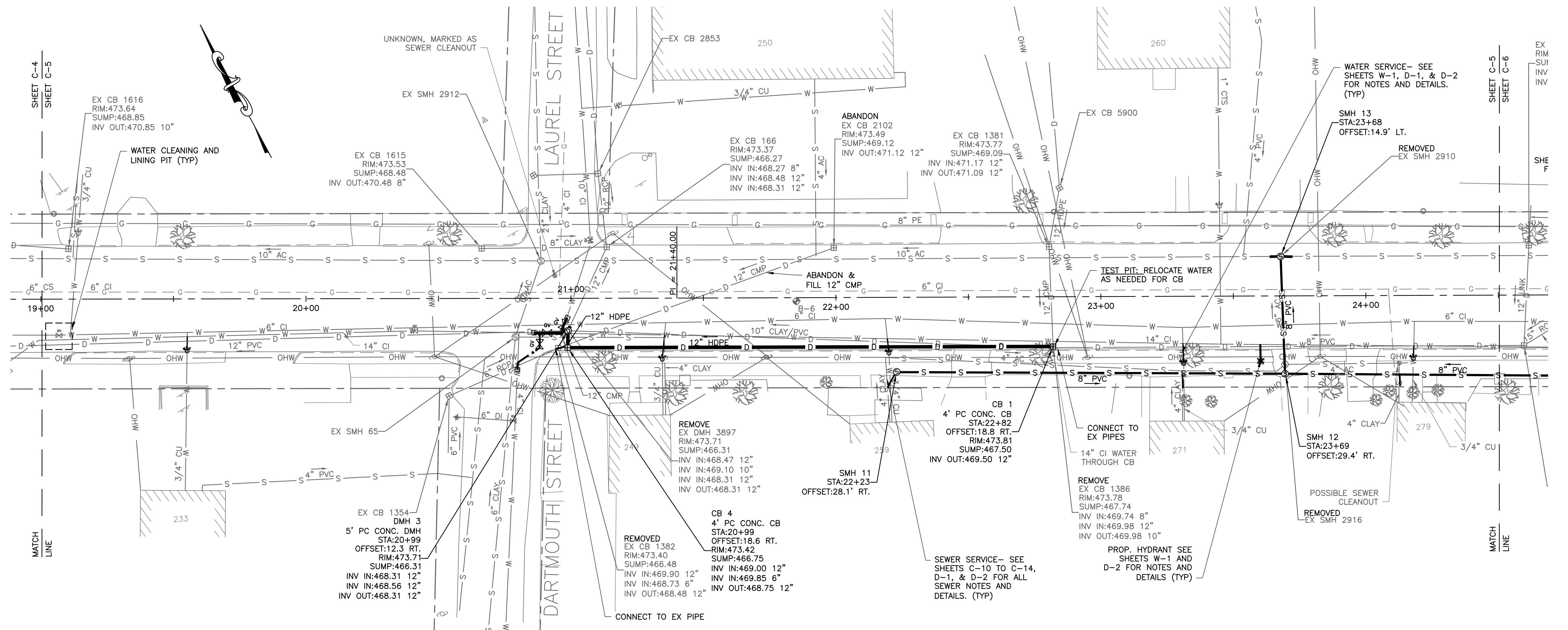
MARLBORO STREET
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SHEET TITLE
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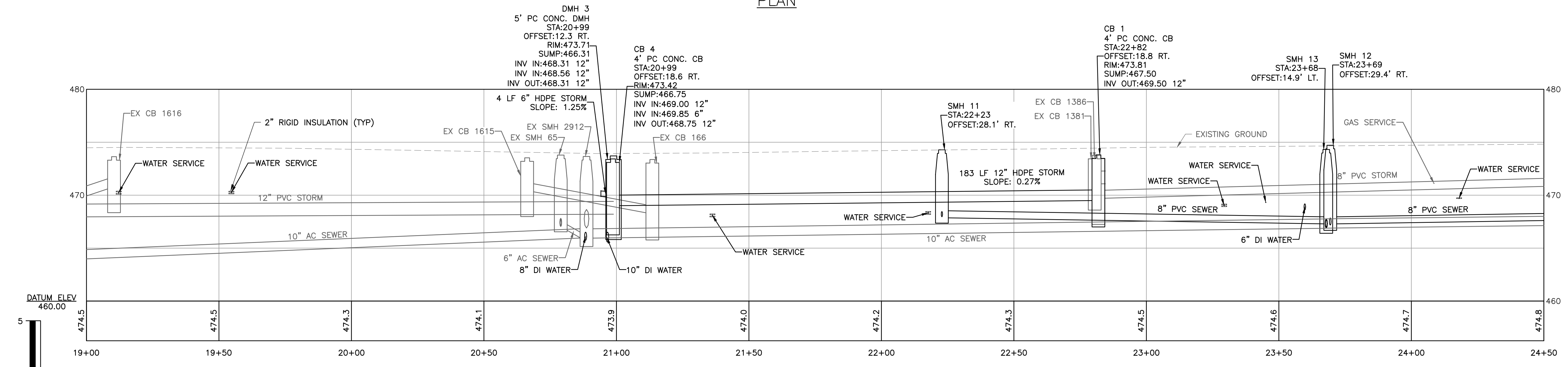
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C-5



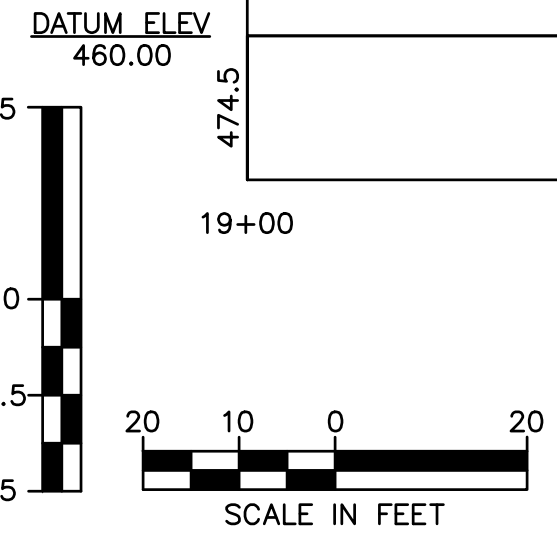
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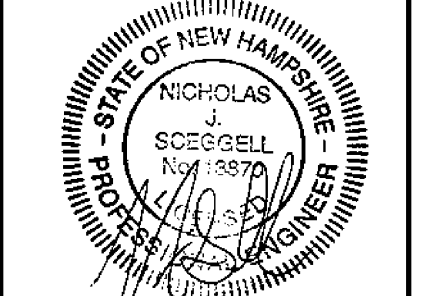


PROFILE

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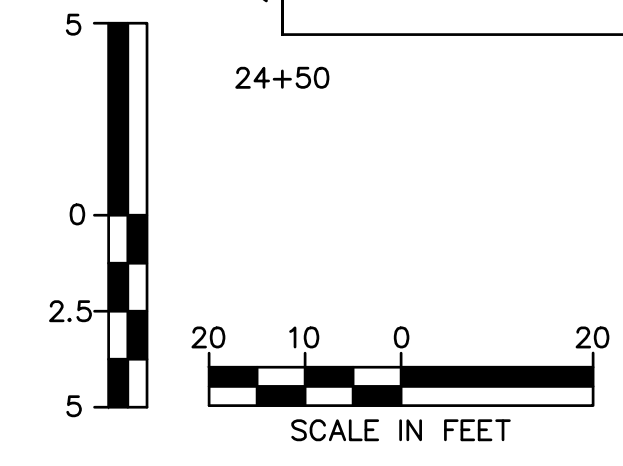
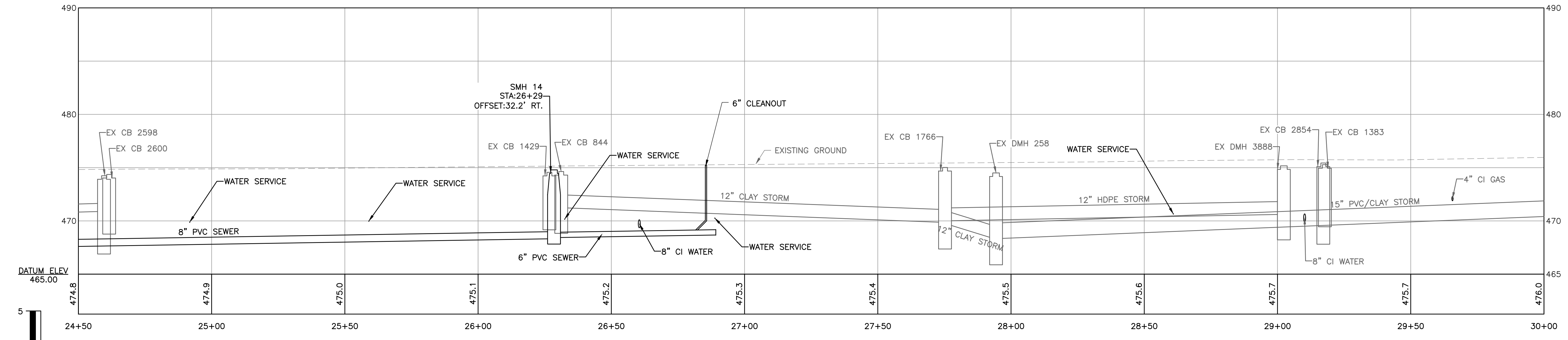
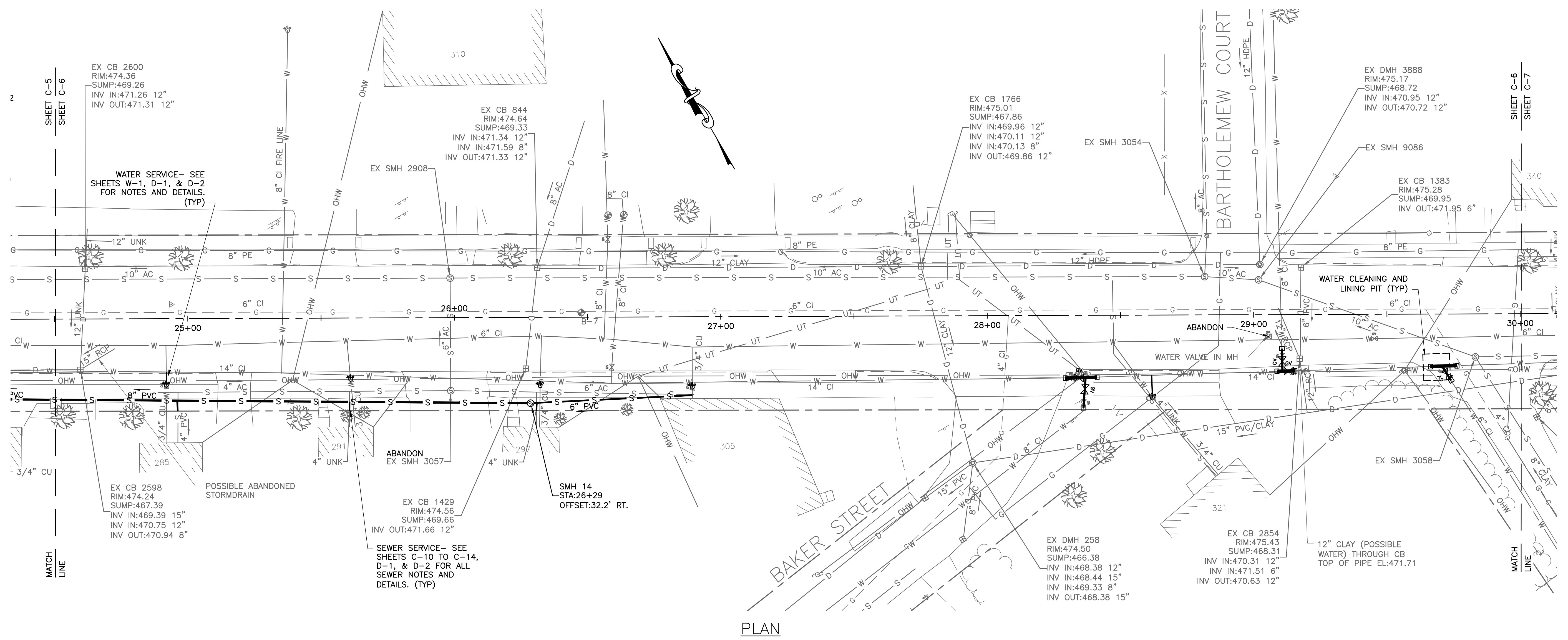
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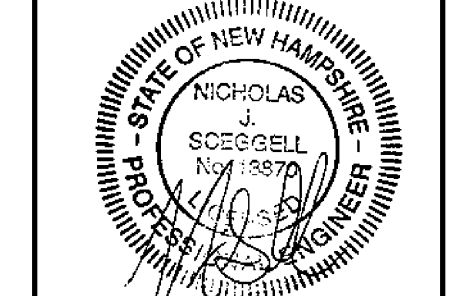
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PROFILE

- NOTE:**
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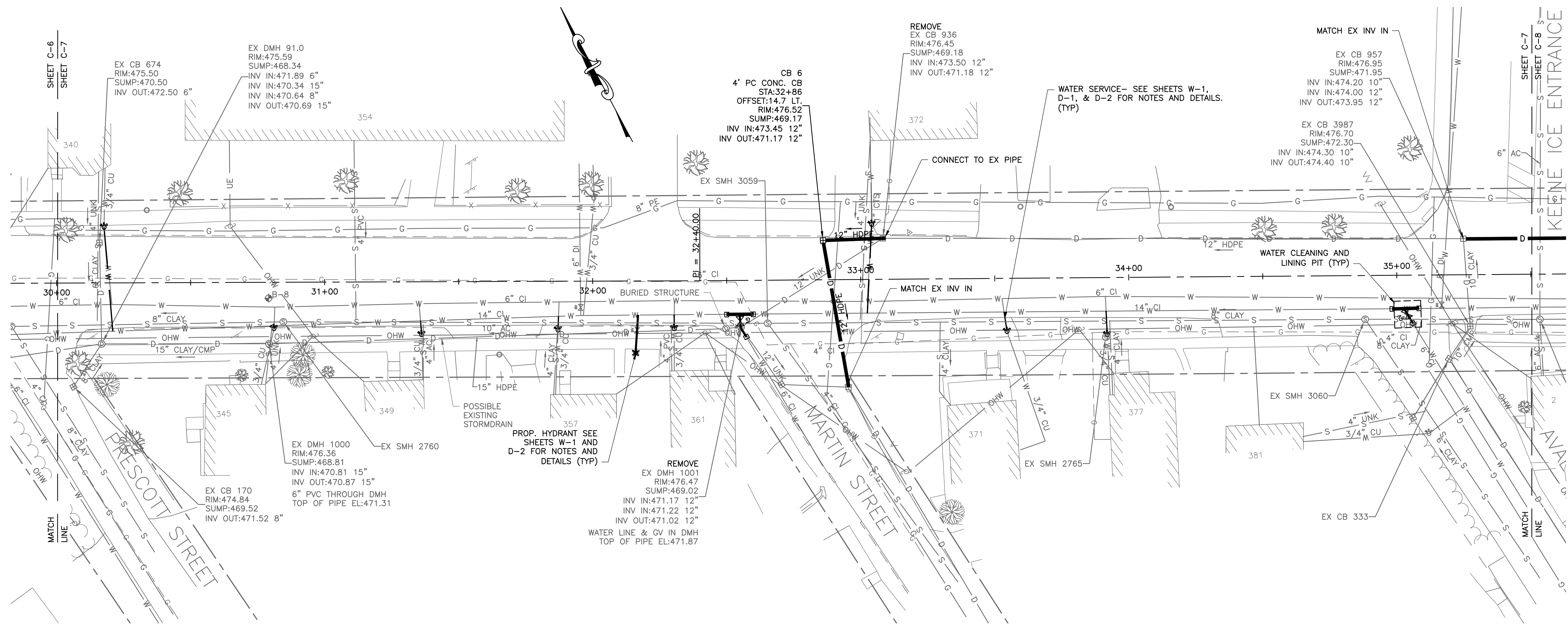
MARLBORO STREET
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SHEET TITLE
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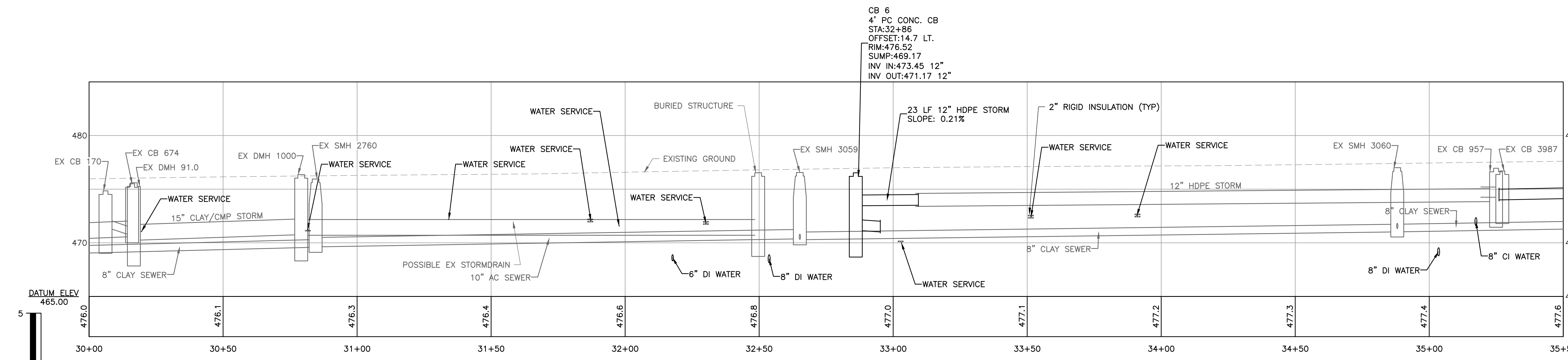
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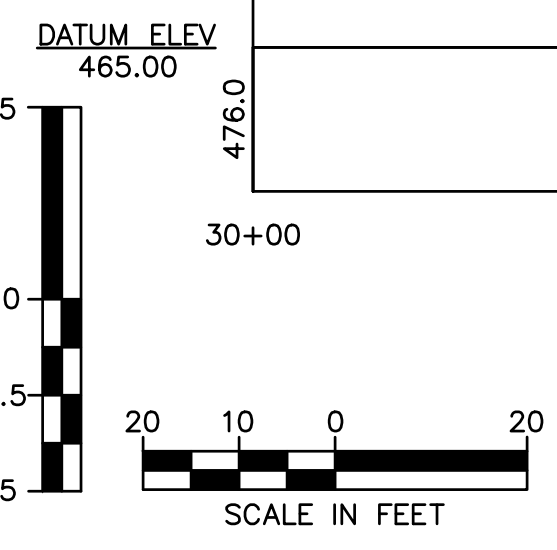
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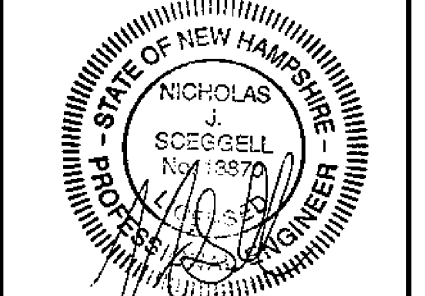


PROFILE

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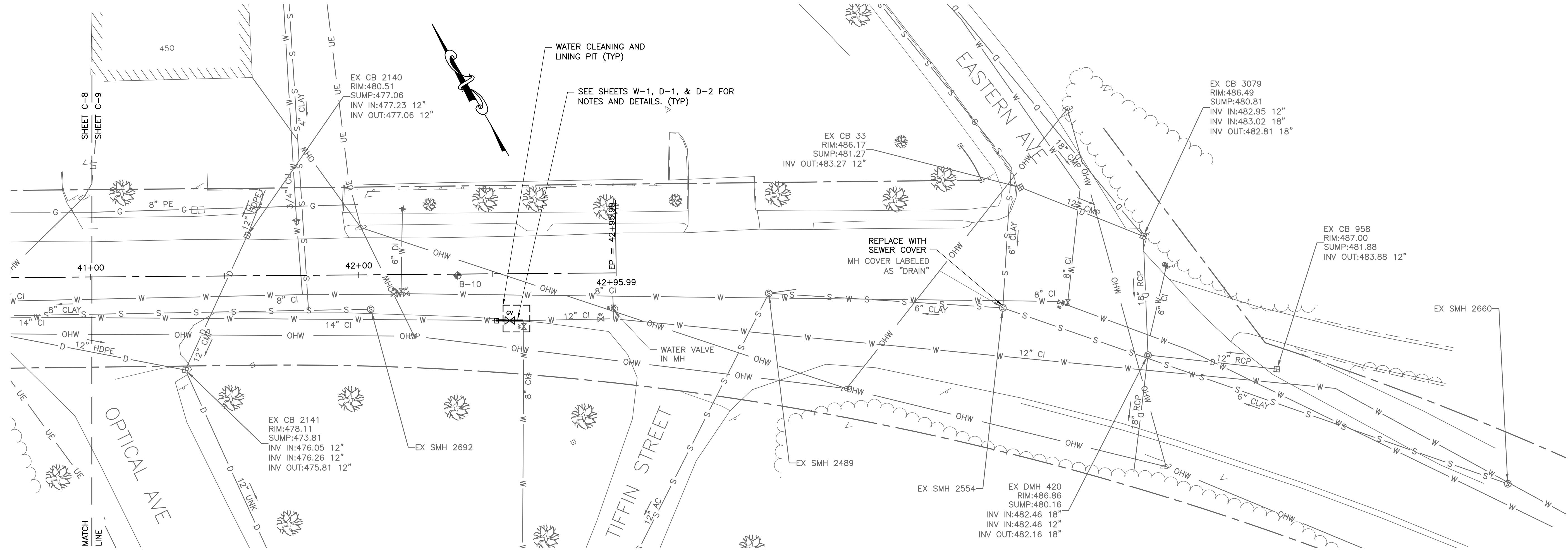
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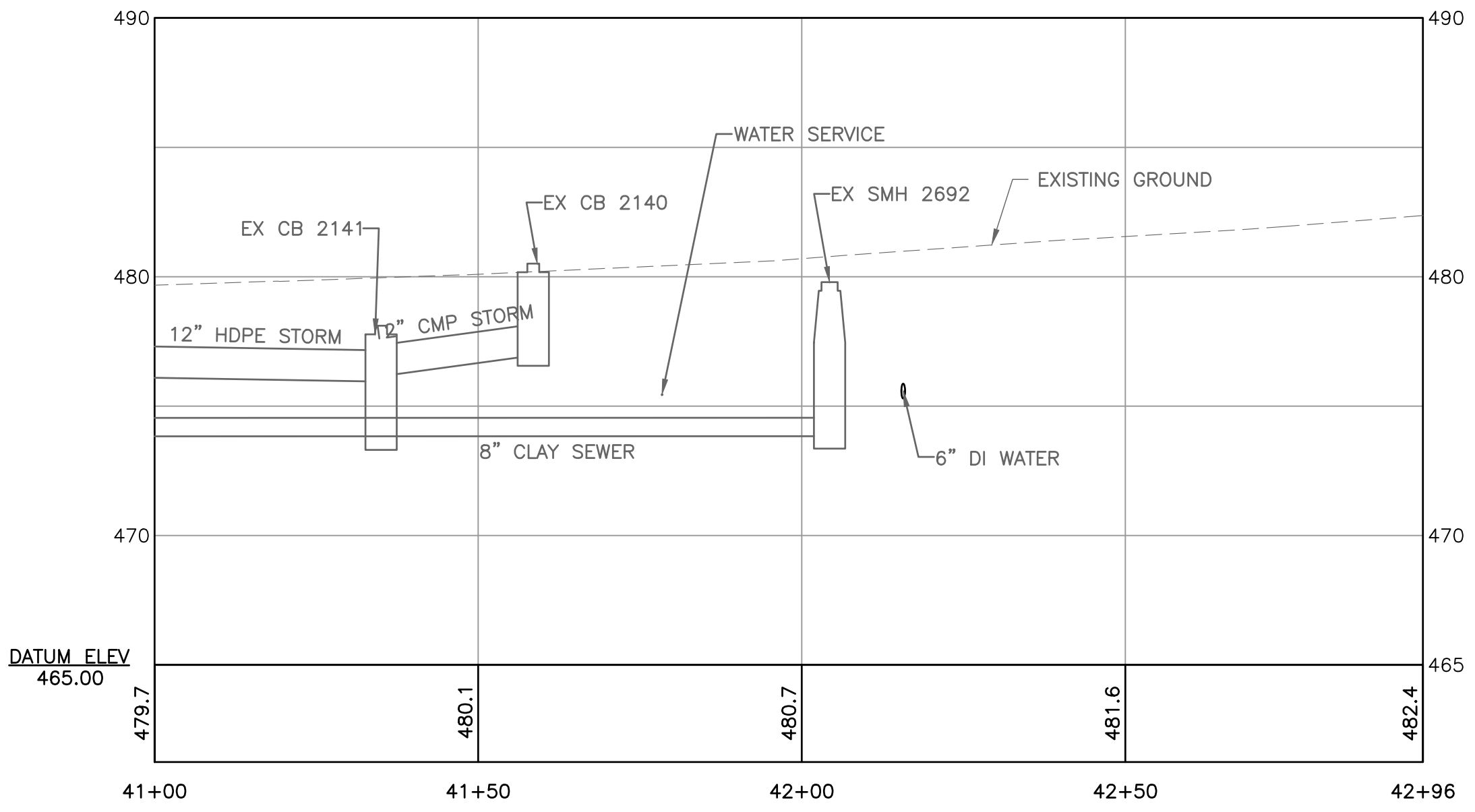
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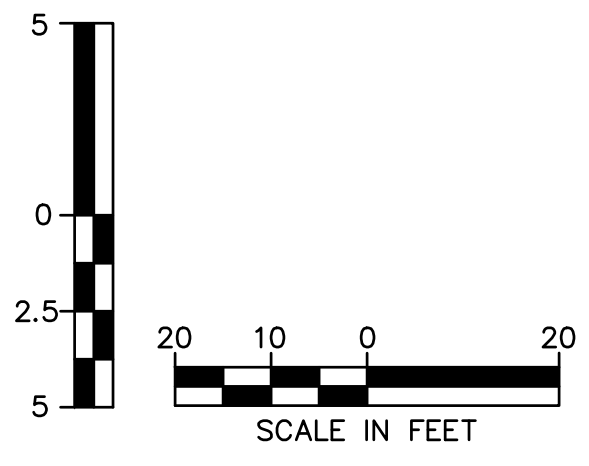


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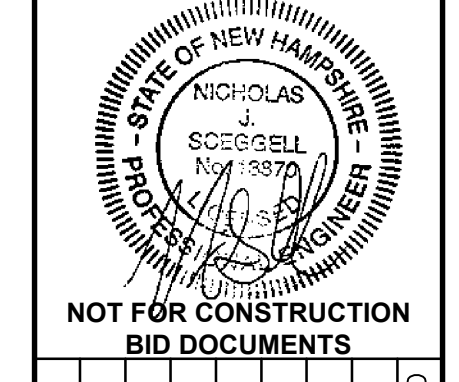


PROFILE

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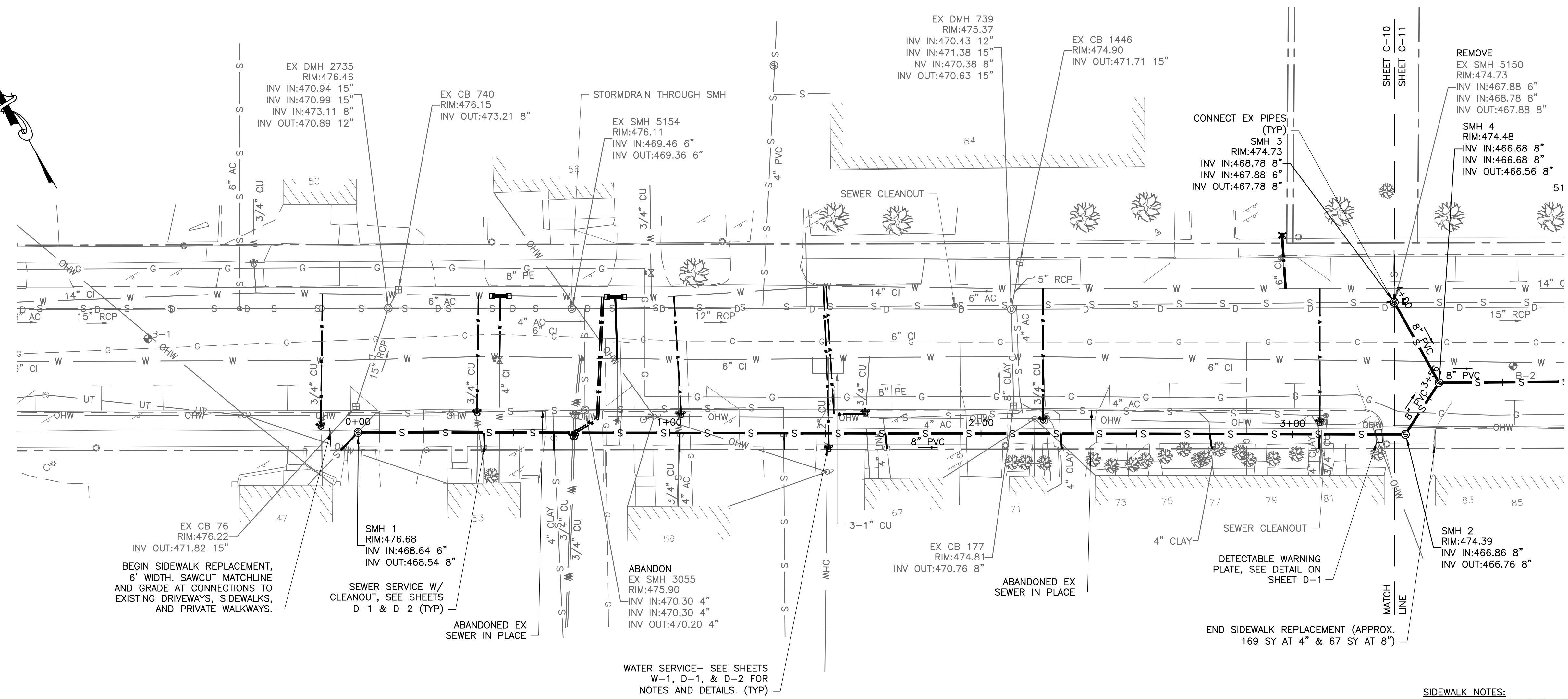
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SHEET TITLE
 SEWER PLAN &
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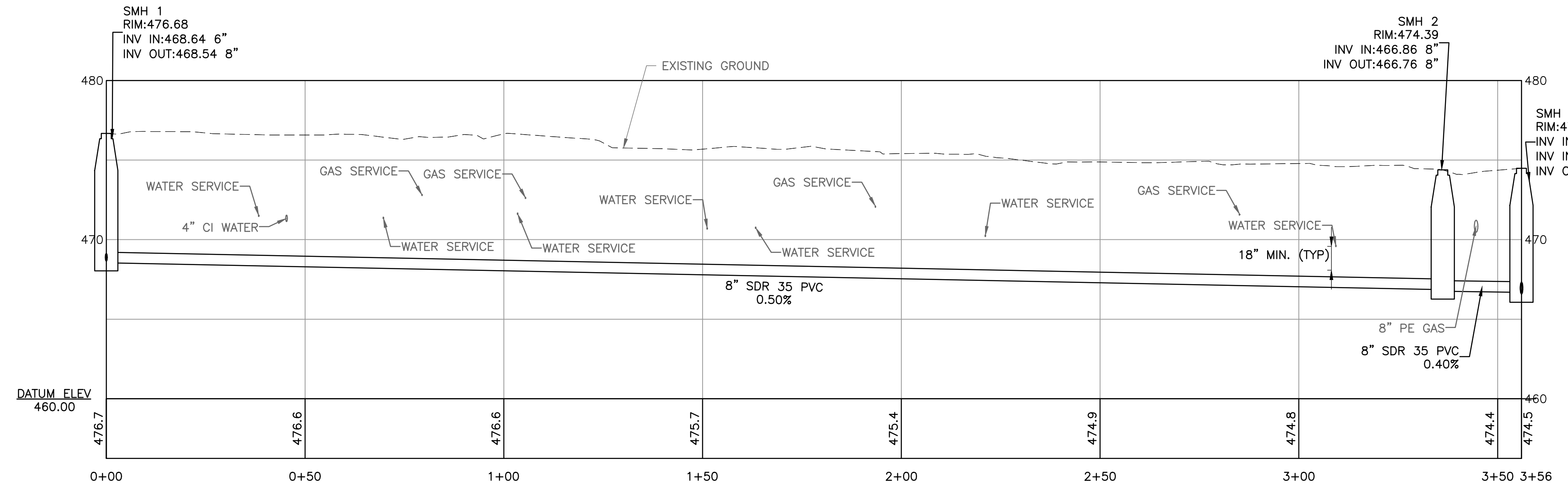
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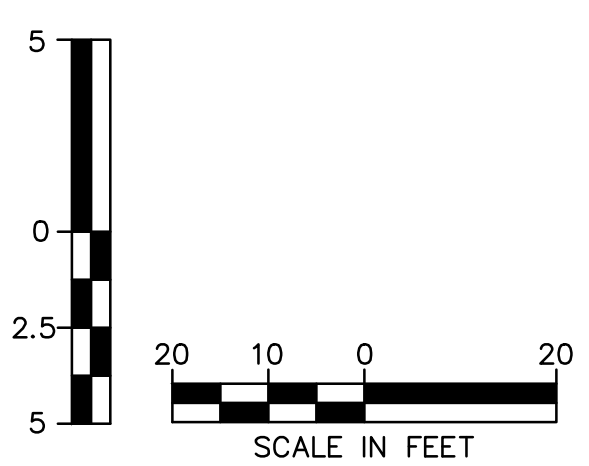
NOTE:
 1. ALL SEWER SERVICES SHALL INCLUDE A CLEANOUT AT THE CONNECTION TO EXISTING SEWER SERVICE PIPE.

SEWER PLAN

- SIDEWALK NOTES:**
1. SAWCUT AT CONNECTION TO EXISTING SIDEWALKS, WALKWAYS, AND DRIVEWAYS.
 2. MATCHLINE AND GRADE AT TIE IN LOCATIONS.
 3. PROVIDE TIP DOWNS AS NECESSARY AT DRIVEWAY CROSSINGS PER ADA DETAIL.
 4. PROVIDE DETECTABLE WARNINGS AT INTERSECTIONS.
2. SAWCUTTING, REMOVAL, AND DISPOSAL OF EXISTING SIDEWALK SHALL BE SUBSIDIARY TO OTHER PAY ITEMS (WATER, SEWER, DRAIN).



SEWER PROFILE



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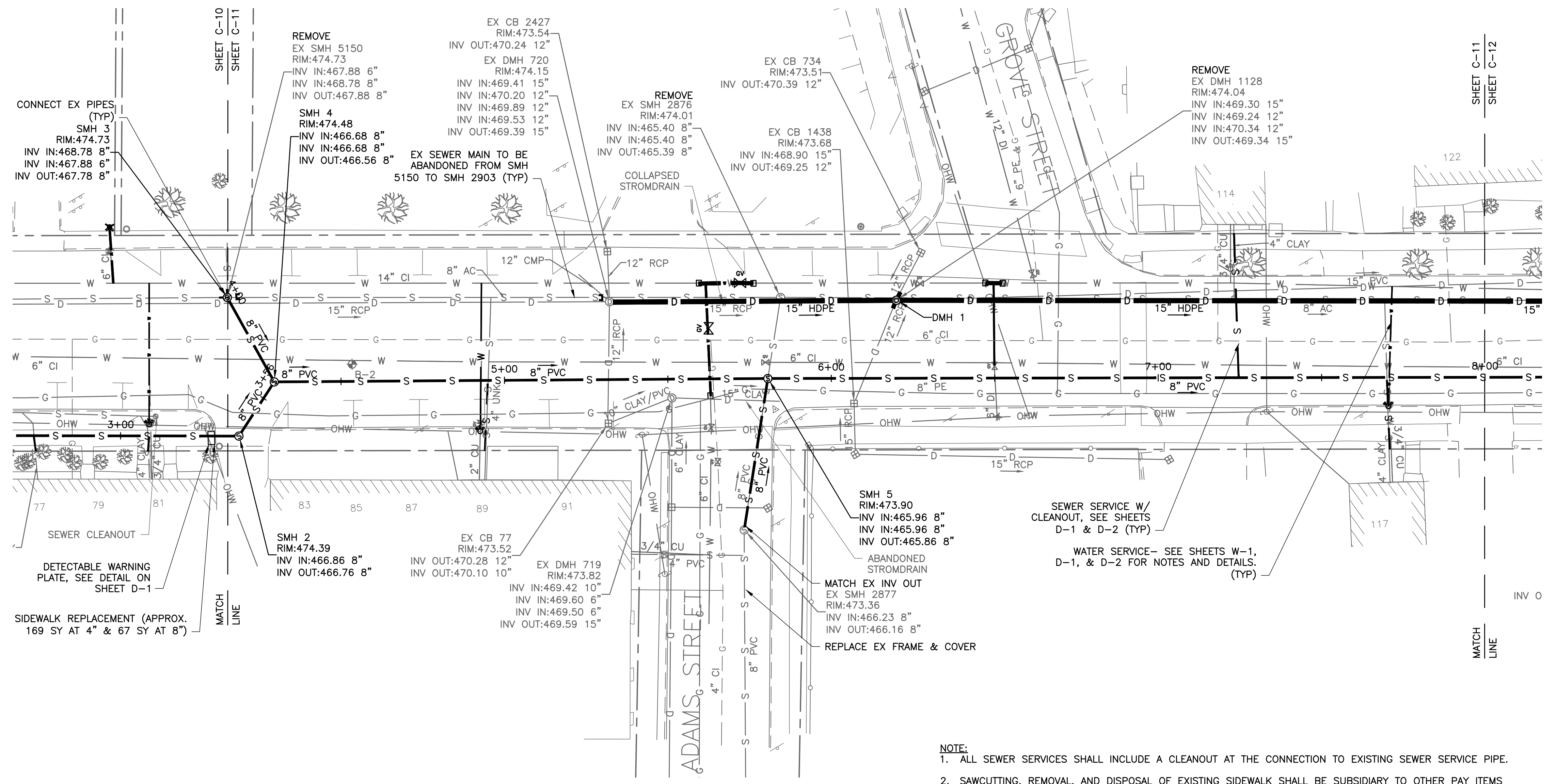
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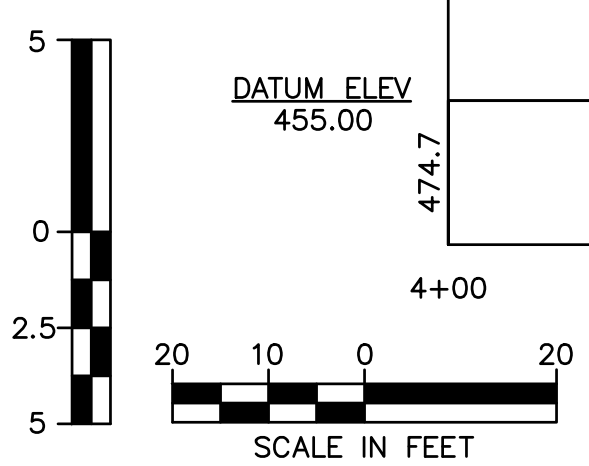
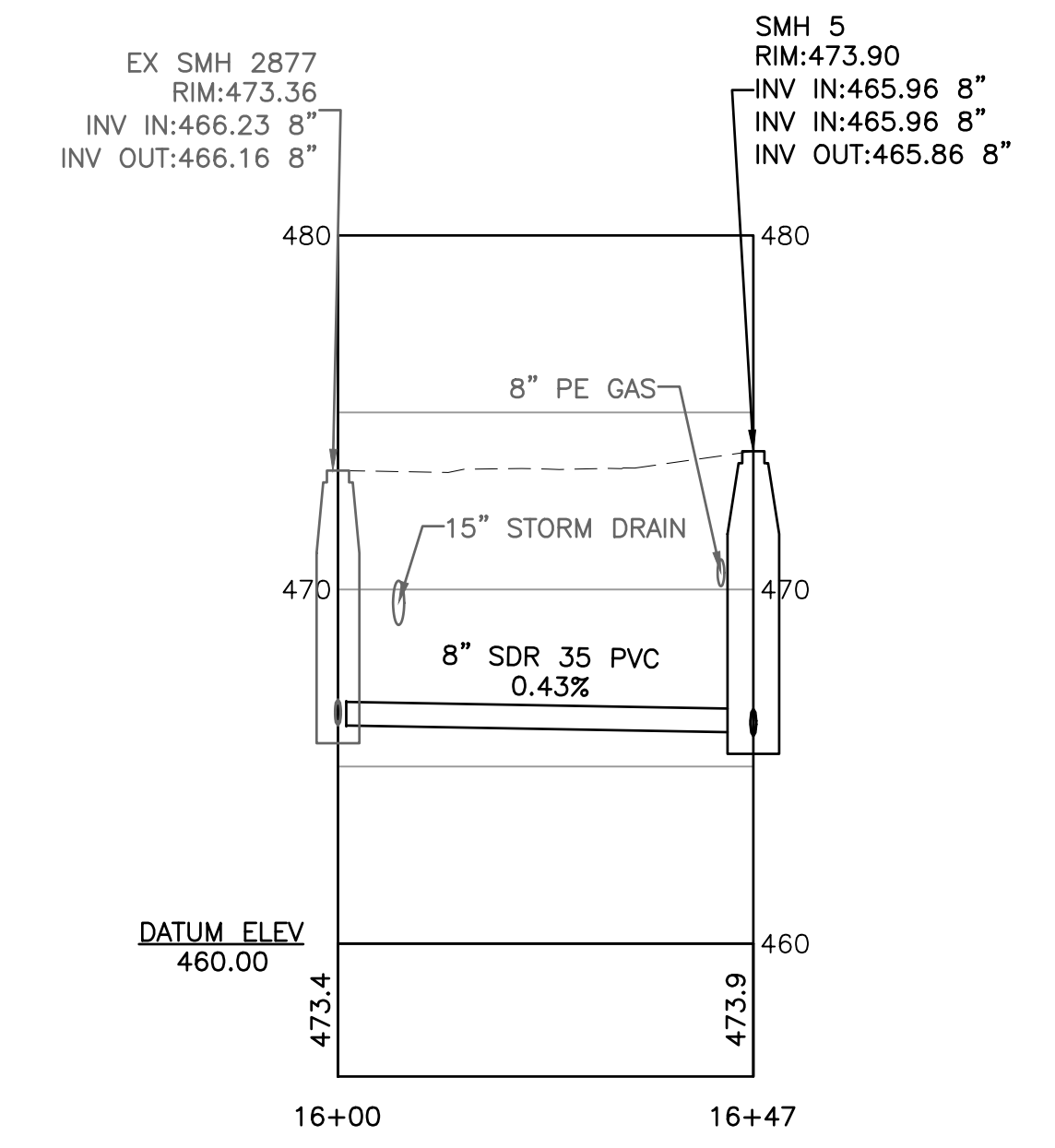
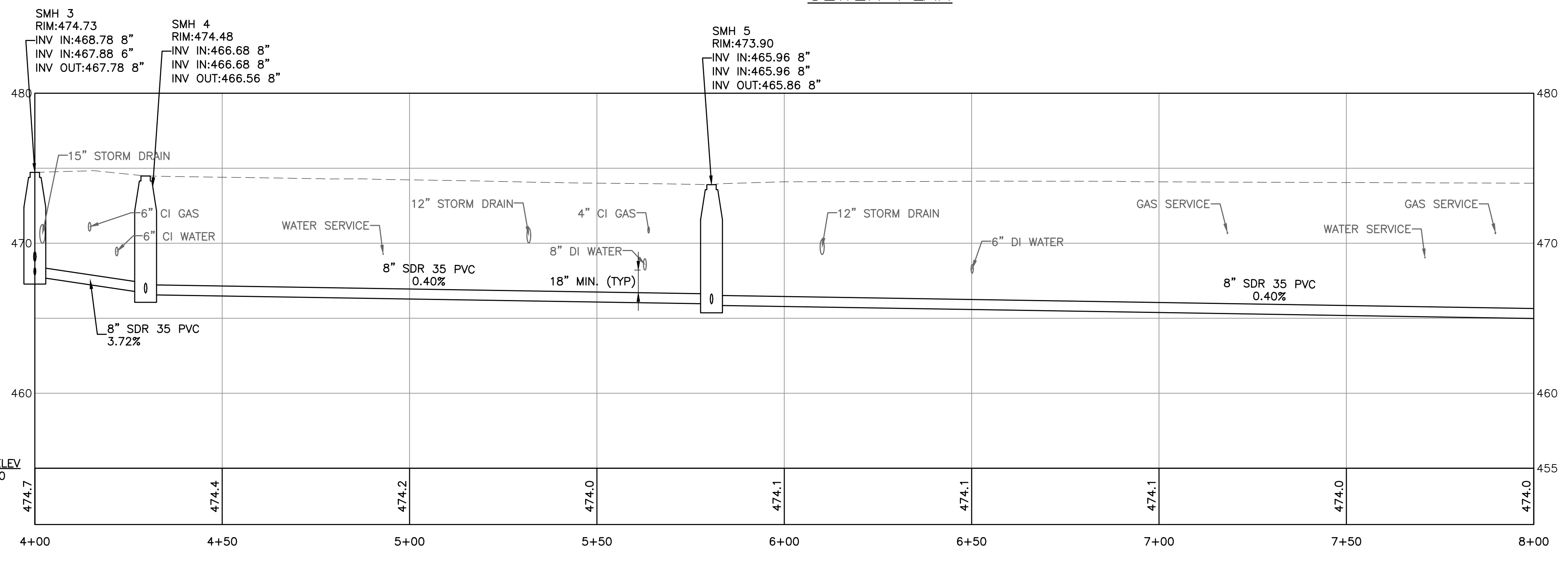
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C-11



- NOTE:
- ALL SEWER SERVICES SHALL INCLUDE A CLEANOUT AT THE CONNECTION TO EXISTING SEWER SERVICE PIPE.
 - SAWCUTTING, REMOVAL, AND DISPOSAL OF EXISTING SIDEWALK SHALL BE SUBSIDIARY TO OTHER PAY ITEMS (WATER, SEWER, DRAIN).



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CITY OF KEENE
 DEPARTMENT OF
 PUBLIC WORKS
 350 MARLBORO ST
 KEENE, NH

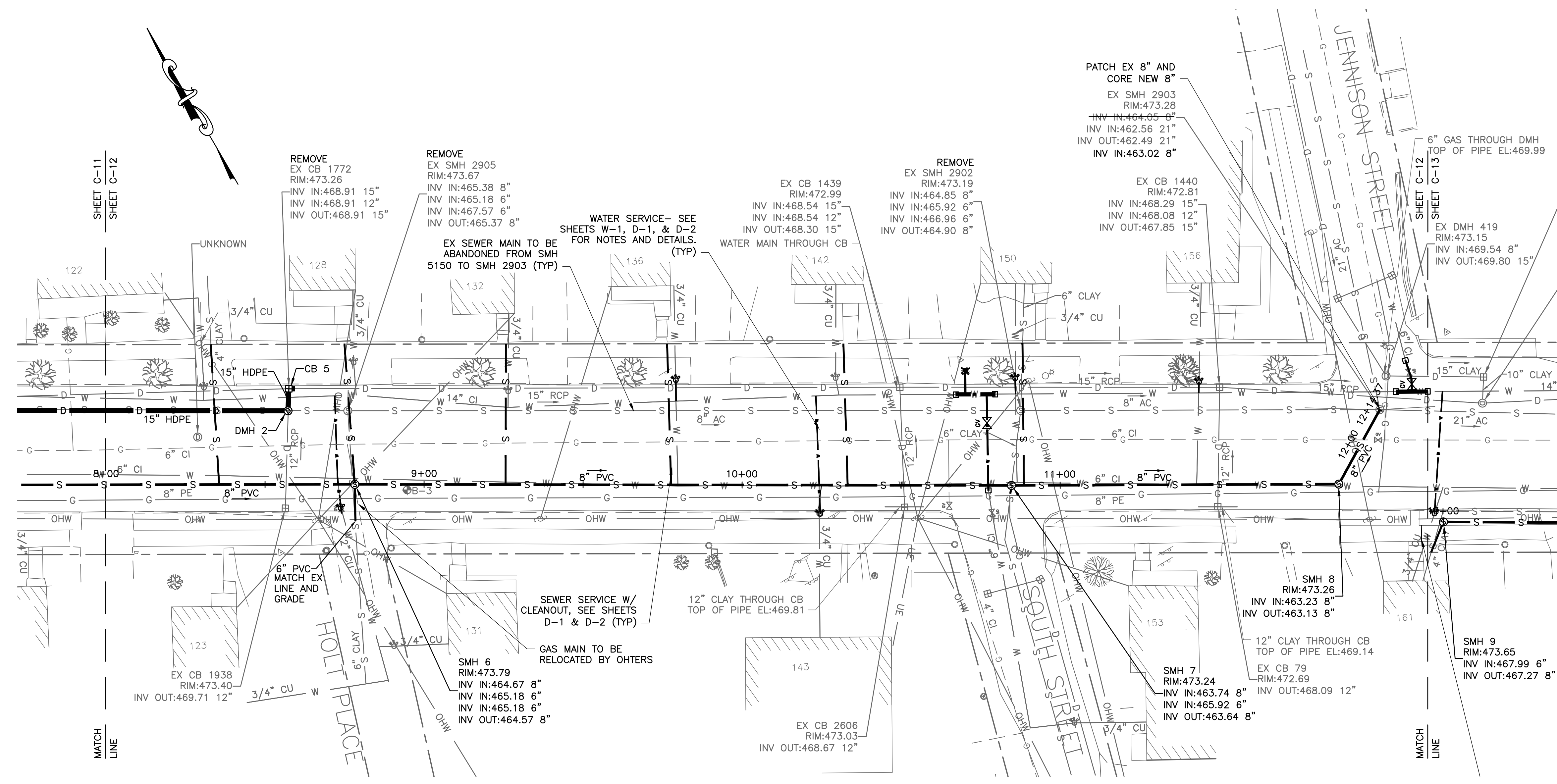
MARLBORO STREET
 REHABILITATION
 KEENE, NH

SHEET TITLE
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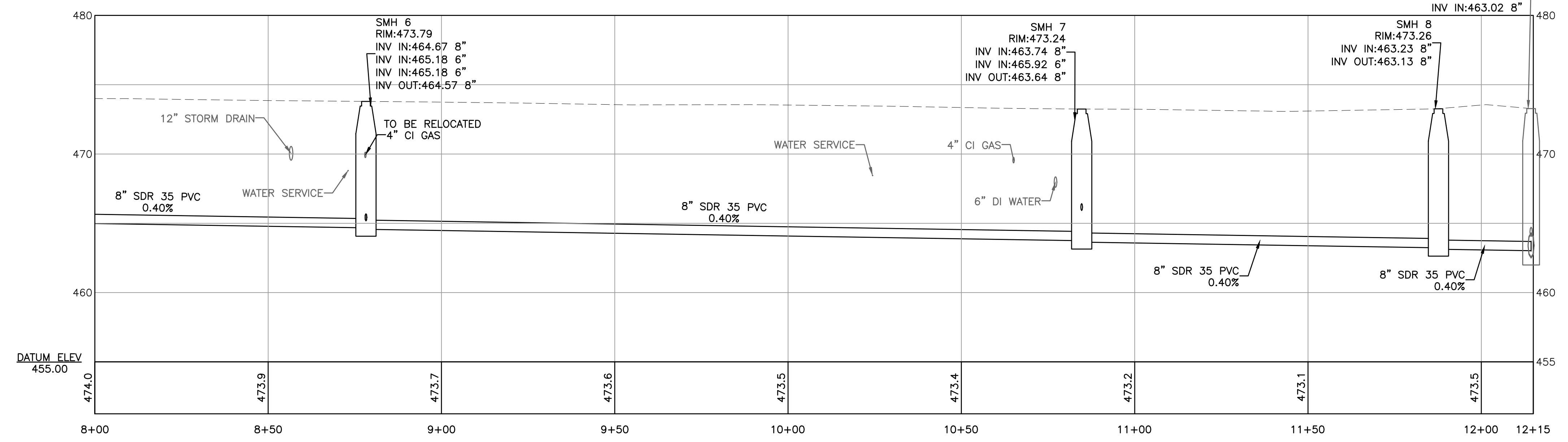
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C-12

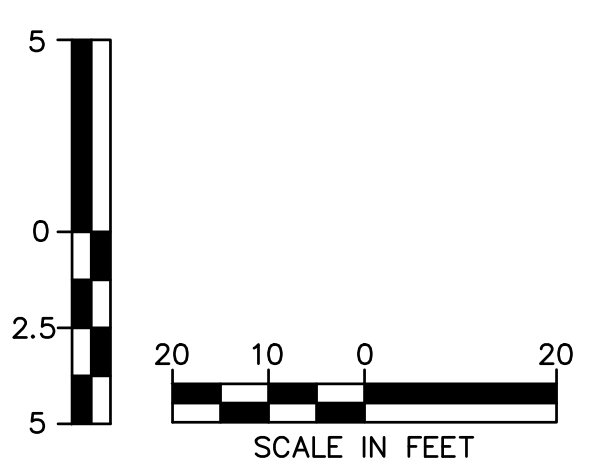


SEWER PLAN

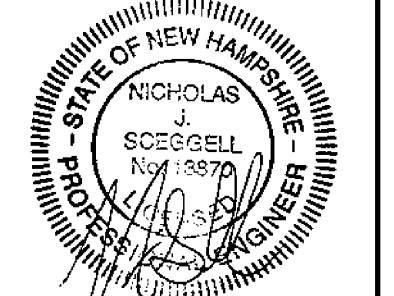
- NOTE:
 1. ALL SEWER SERVICES SHALL INCLUDE A CLEANOUT AT THE CONNECTION TO EXISTING SEWER SERVICE PIPE.
 2. SAWCUTTING, REMOVAL, AND DISPOSAL OF EXISTING SIDEWALK SHALL BE SUBSIDIARY TO OTHER PAY ITEMS (WATER, SEWER, DRAIN).



SEWER PROFILE



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NO.	DATE	DESCRIPTION	BY	CK'D

CITY OF KEENE
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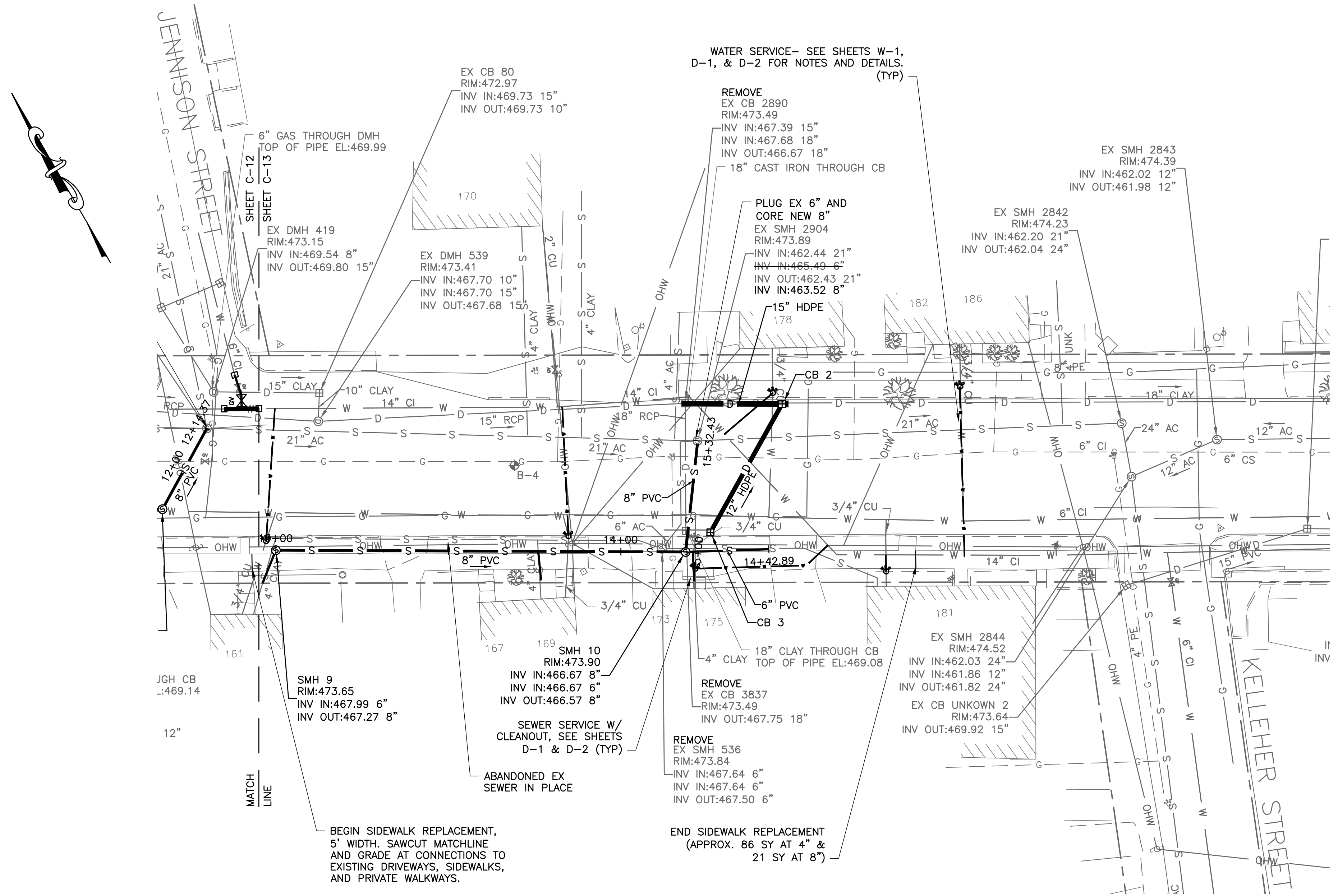
MARLBORO STREET
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SHEET TITLE
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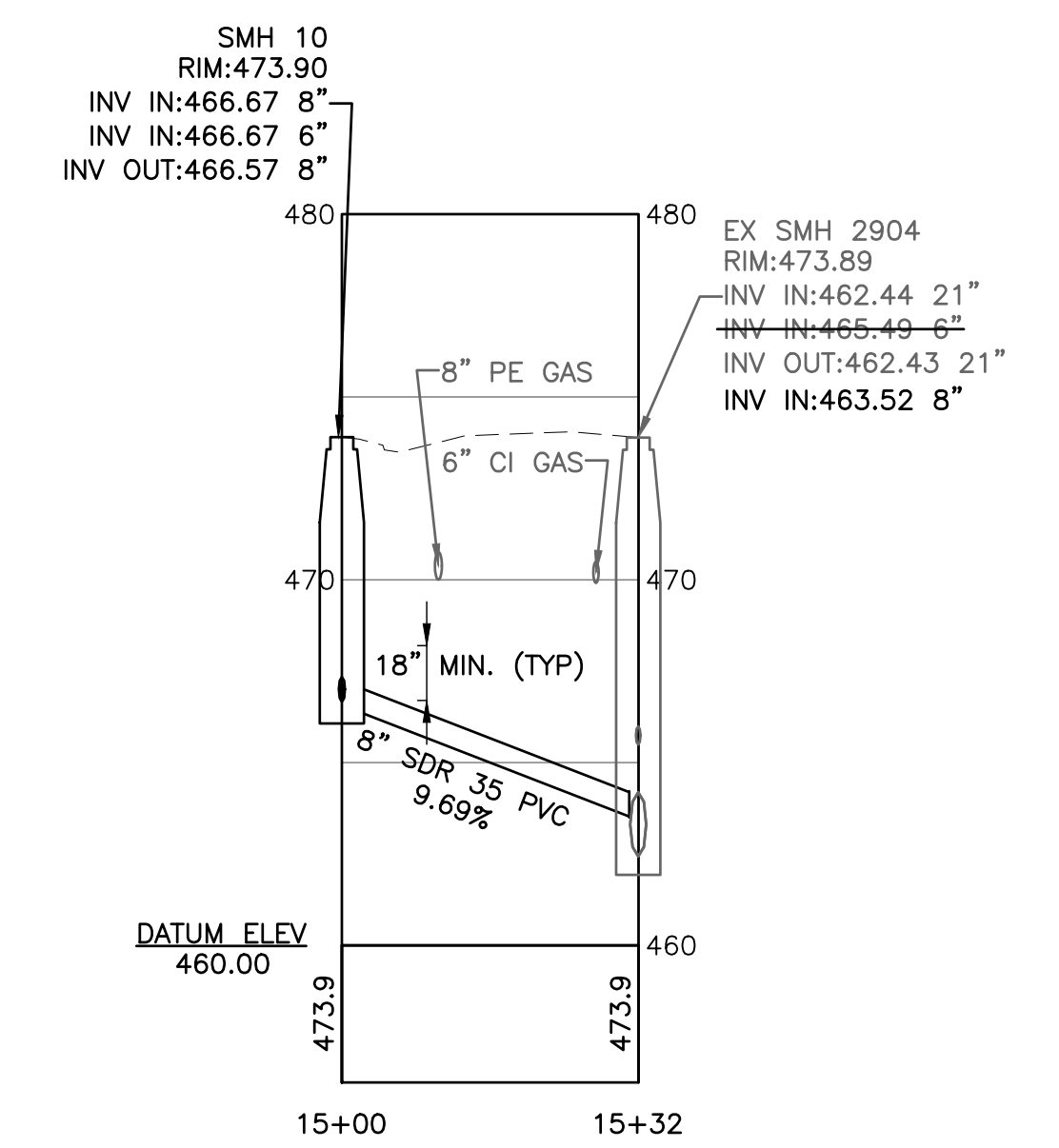
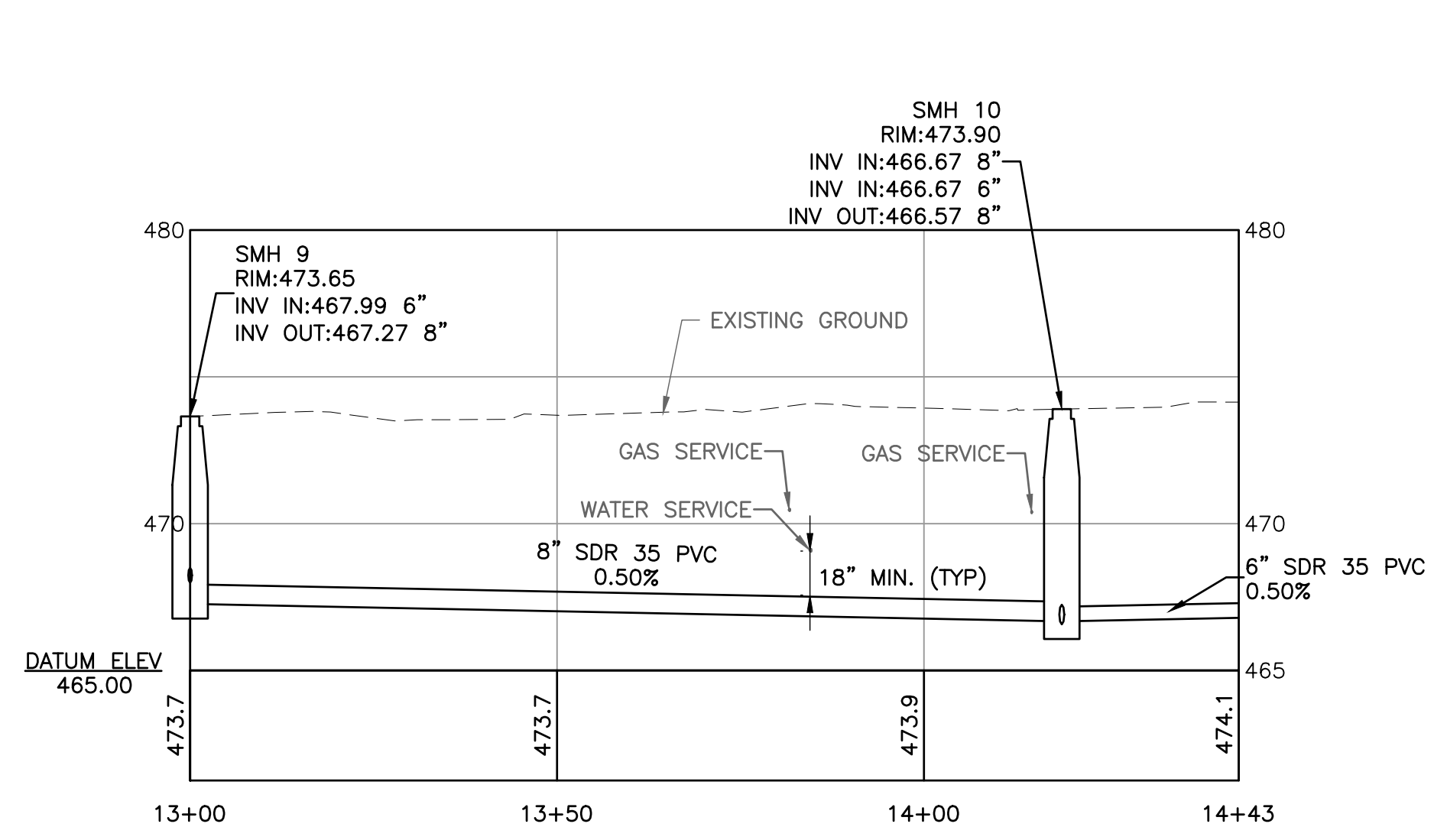


WATER SERVICE- SEE SHEETS W-1,
 D-1, & D-2 FOR NOTES AND DETAILS.
 (TYP)

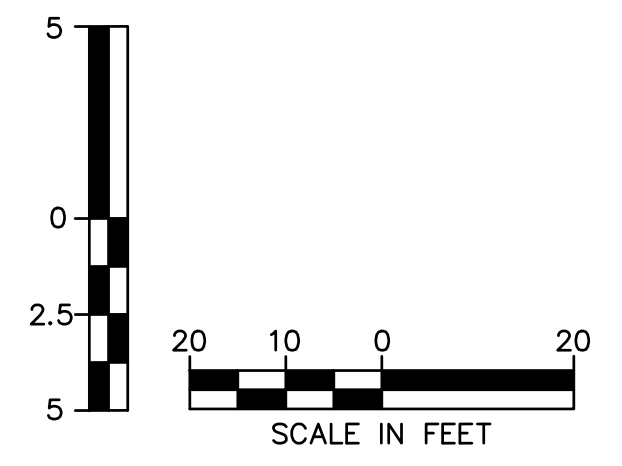
SEWER PLAN

- SIDEWALK NOTES:**
- SAWCUT AT CONNECTION TO EXISTING SIDEWALKS, WALKWAYS, AND DRIVEWAYS.
 - MATCHLINE AND GRADE AT TIE IN LOCATIONS.
 - PROVIDE TIP DOWNS AS NECESSARY AT DRIVEWAY CROSSINGS PER ADA DETAIL.
 - PROVIDE DETECTABLE WARNINGS AT INTERSECTIONS.
2. SAWCUTTING, REMOVAL, AND DISPOSAL OF EXISTING SIDEWALK SHALL BE SUBSIDIARY TO OTHER PAY ITEMS (WATER, SEWER, DRAIN).

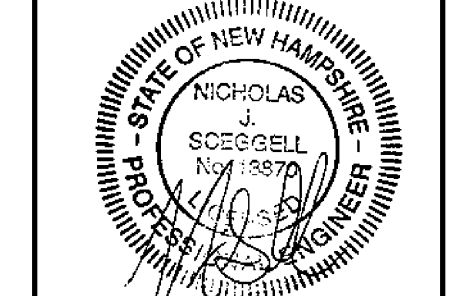
NOTE:
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SEWER PROFILE



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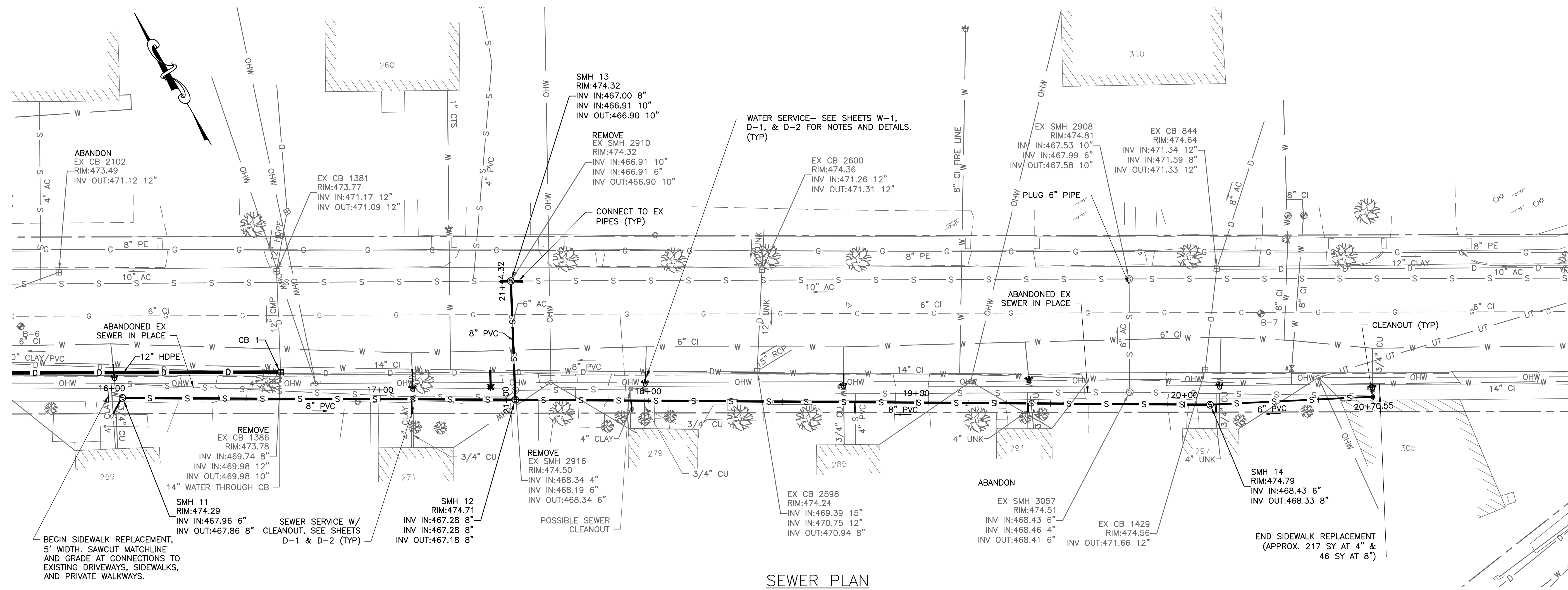
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 KEENE, NH

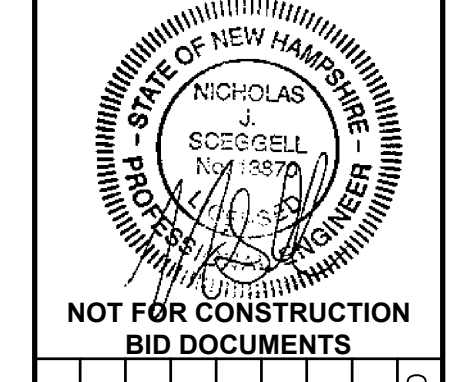
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C-14





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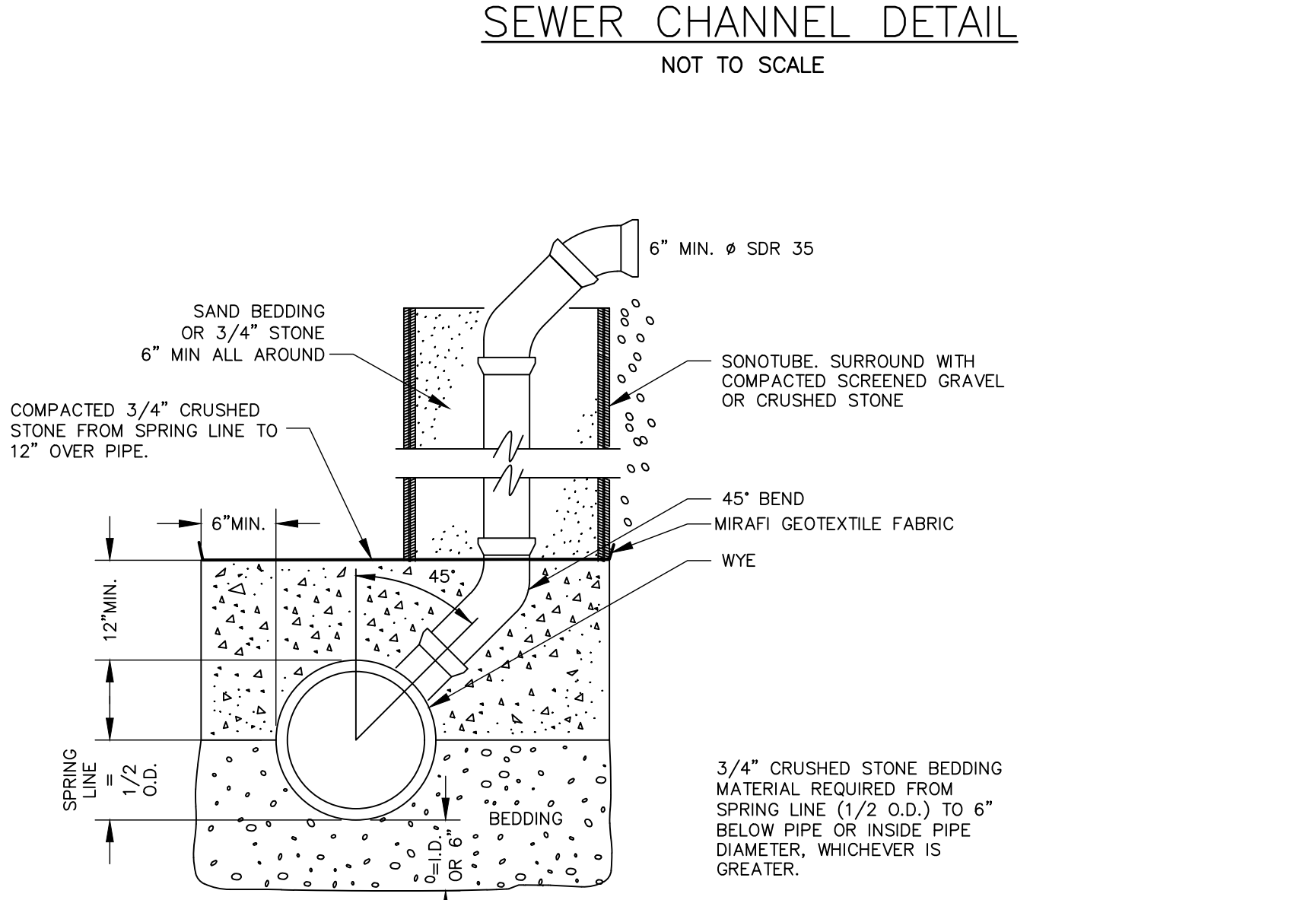
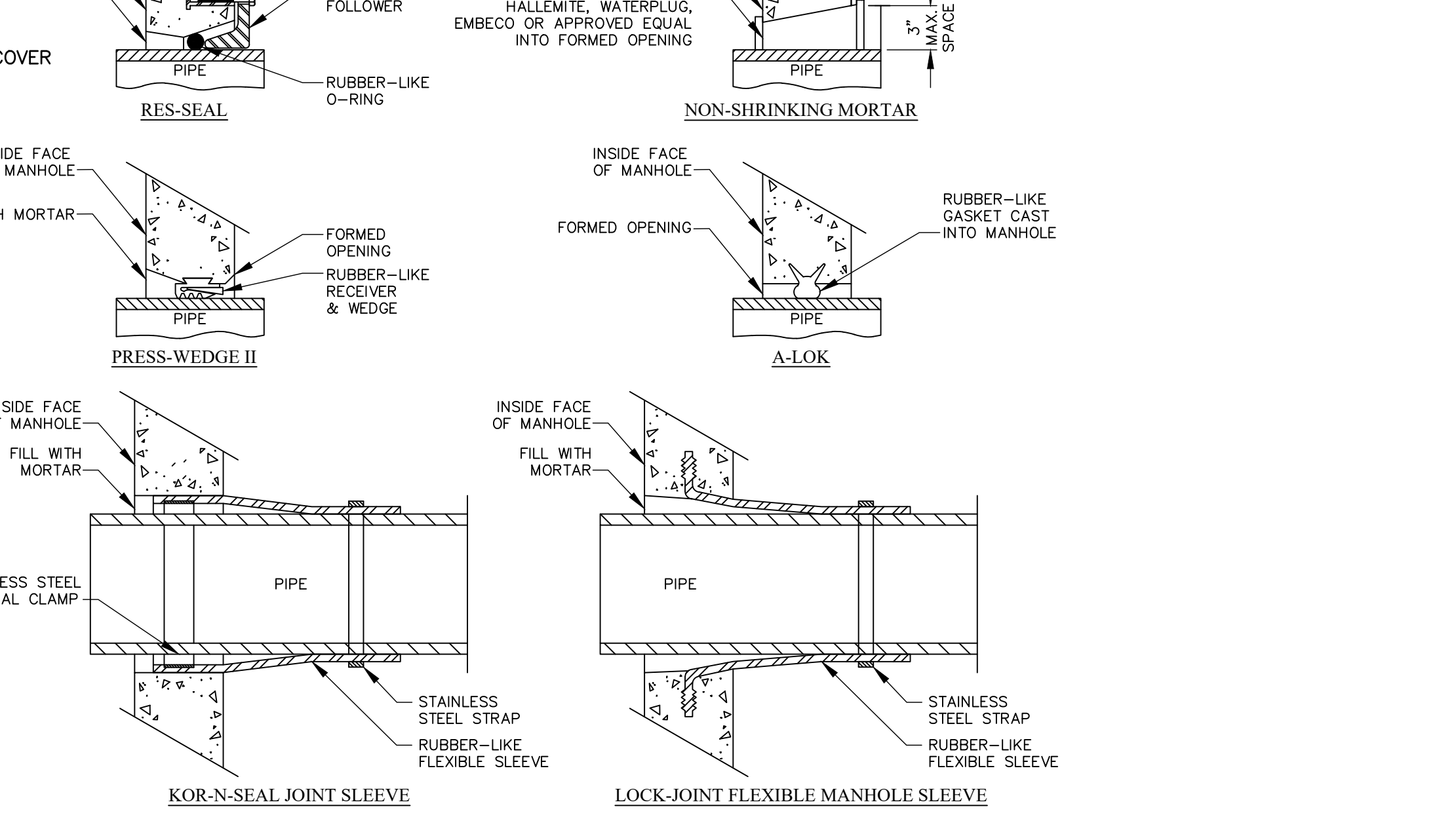
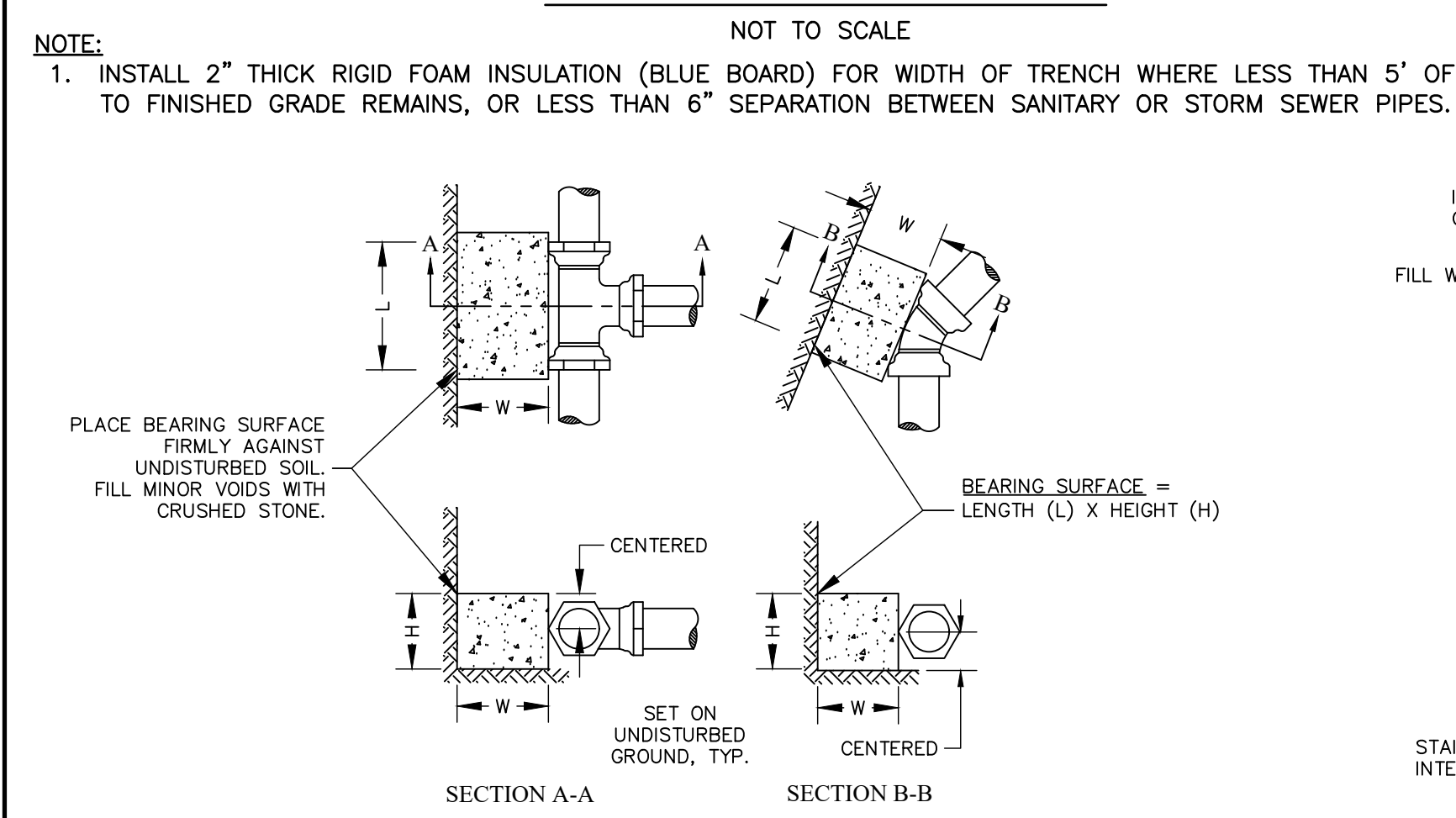
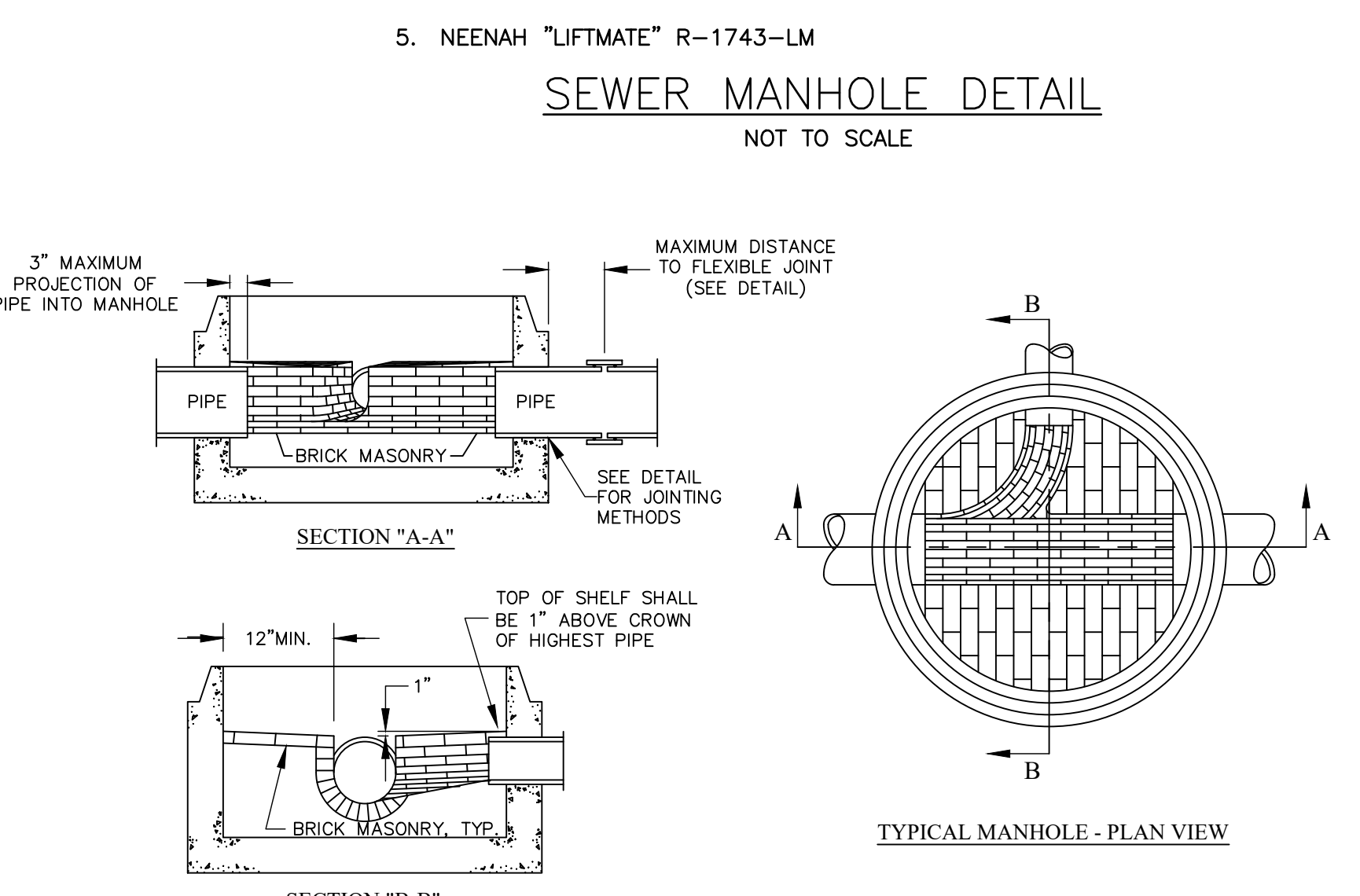
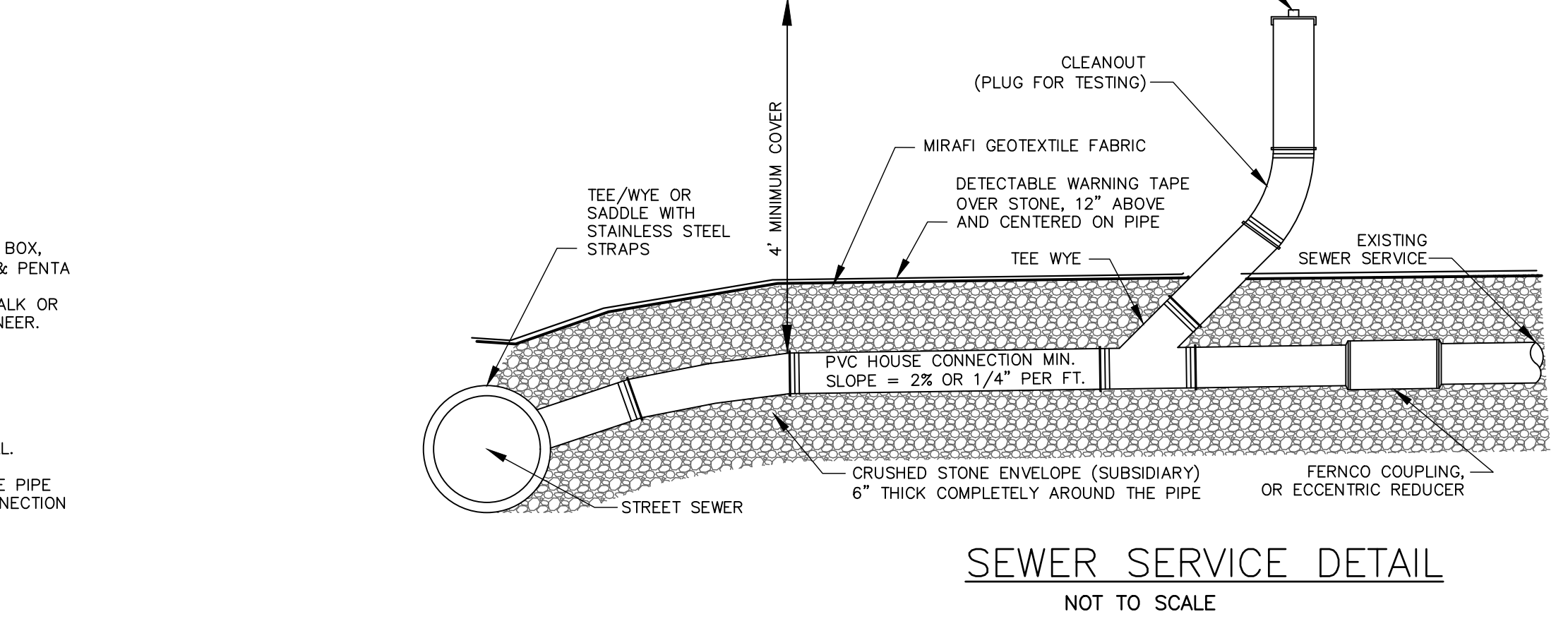
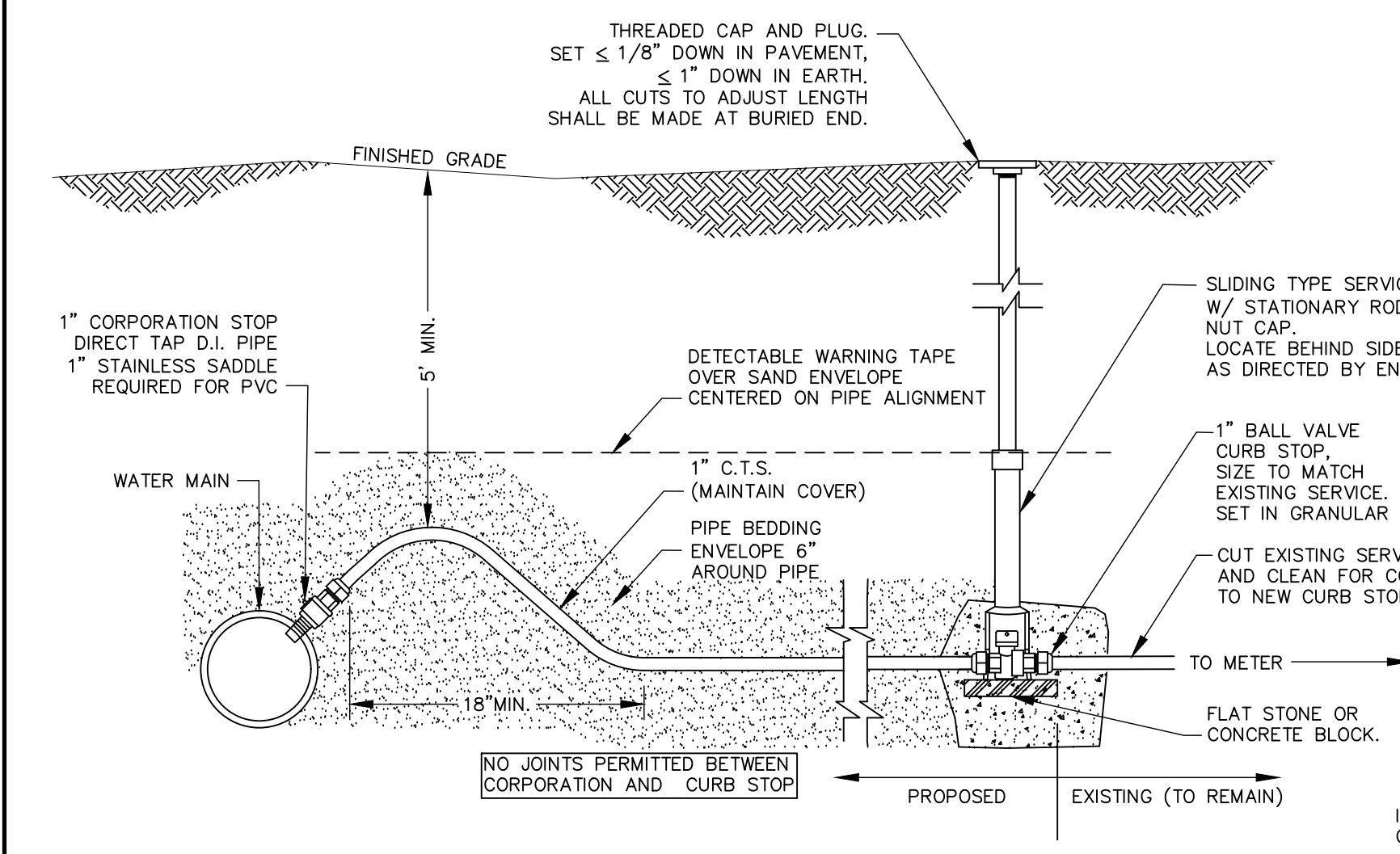
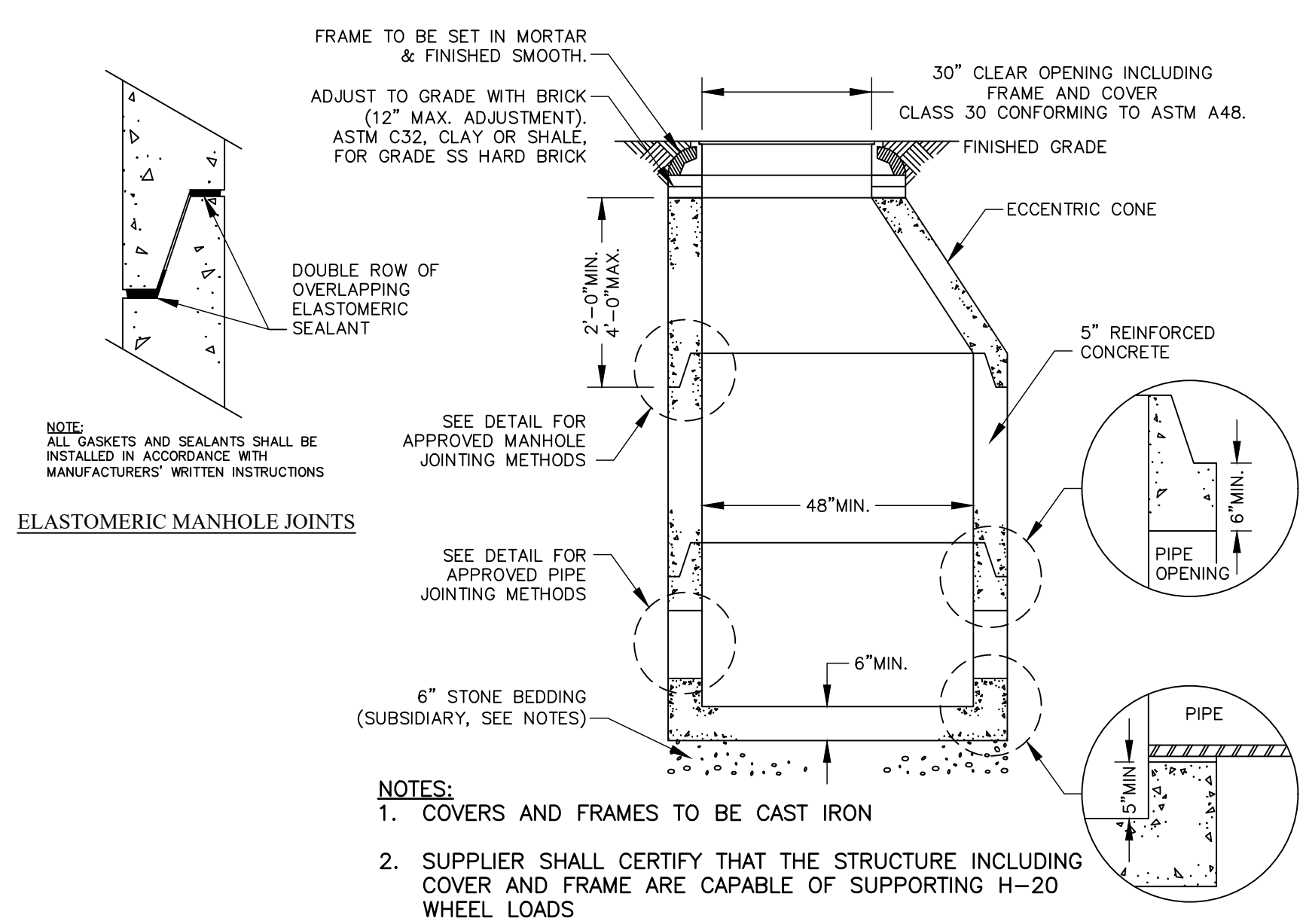
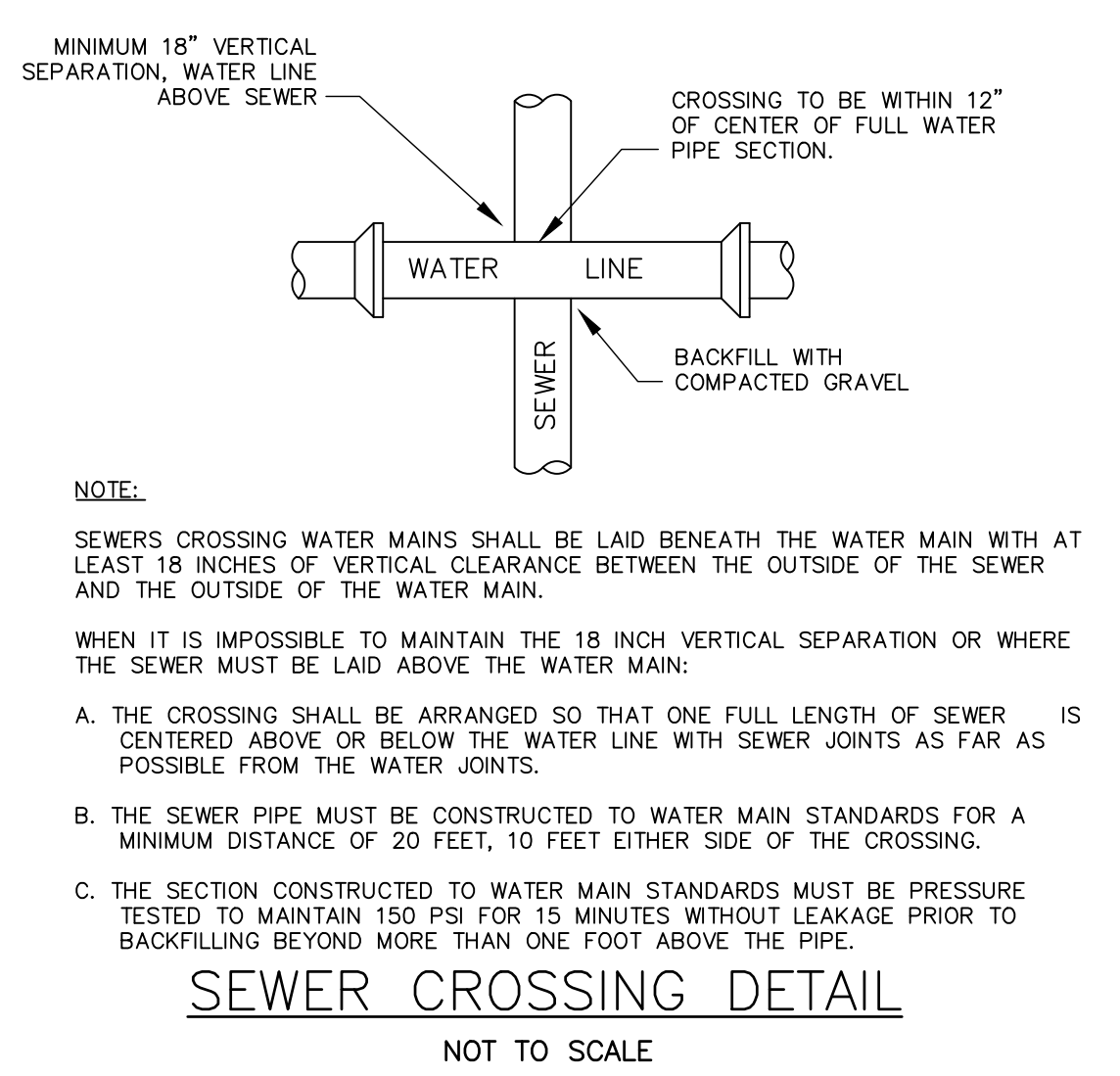
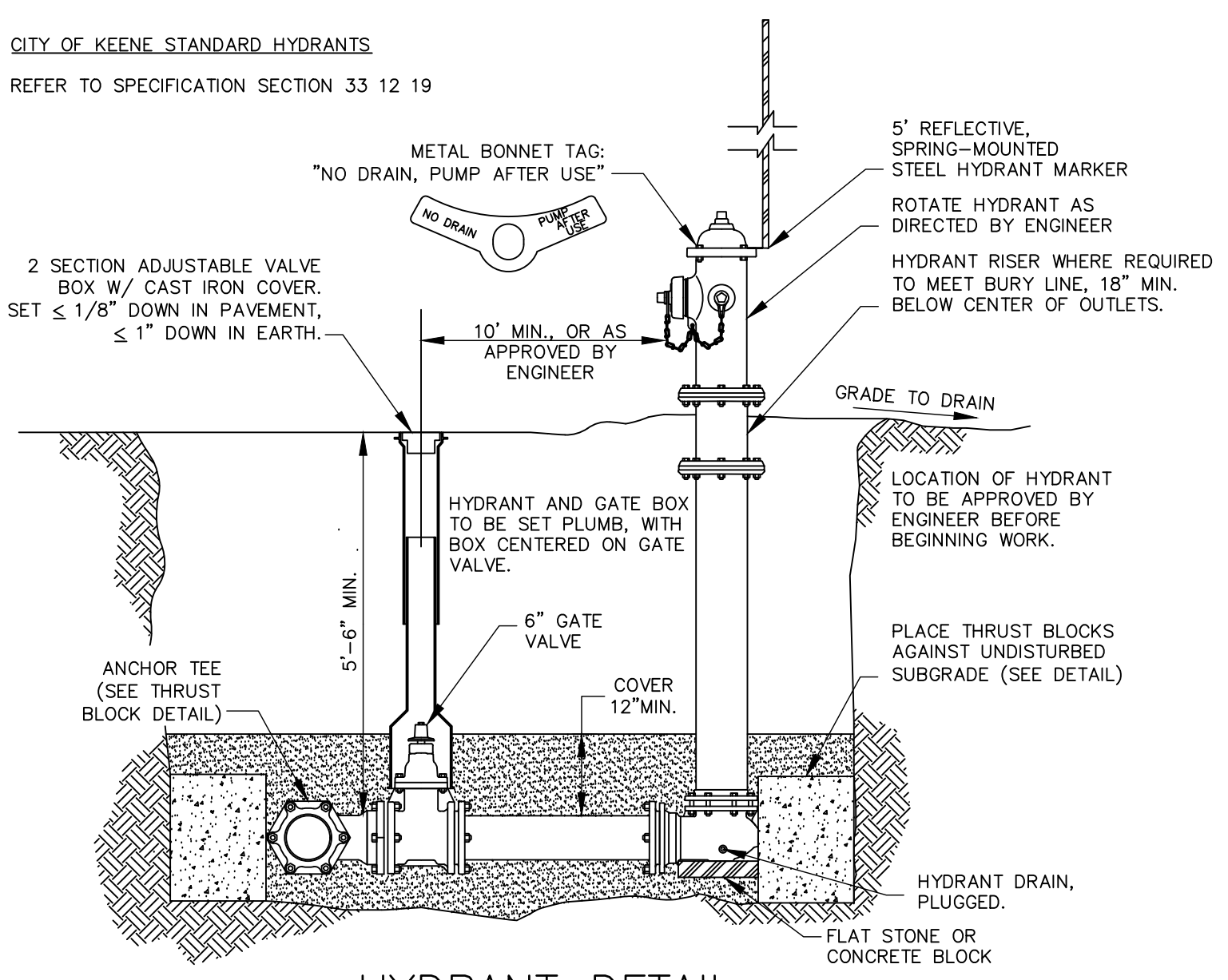
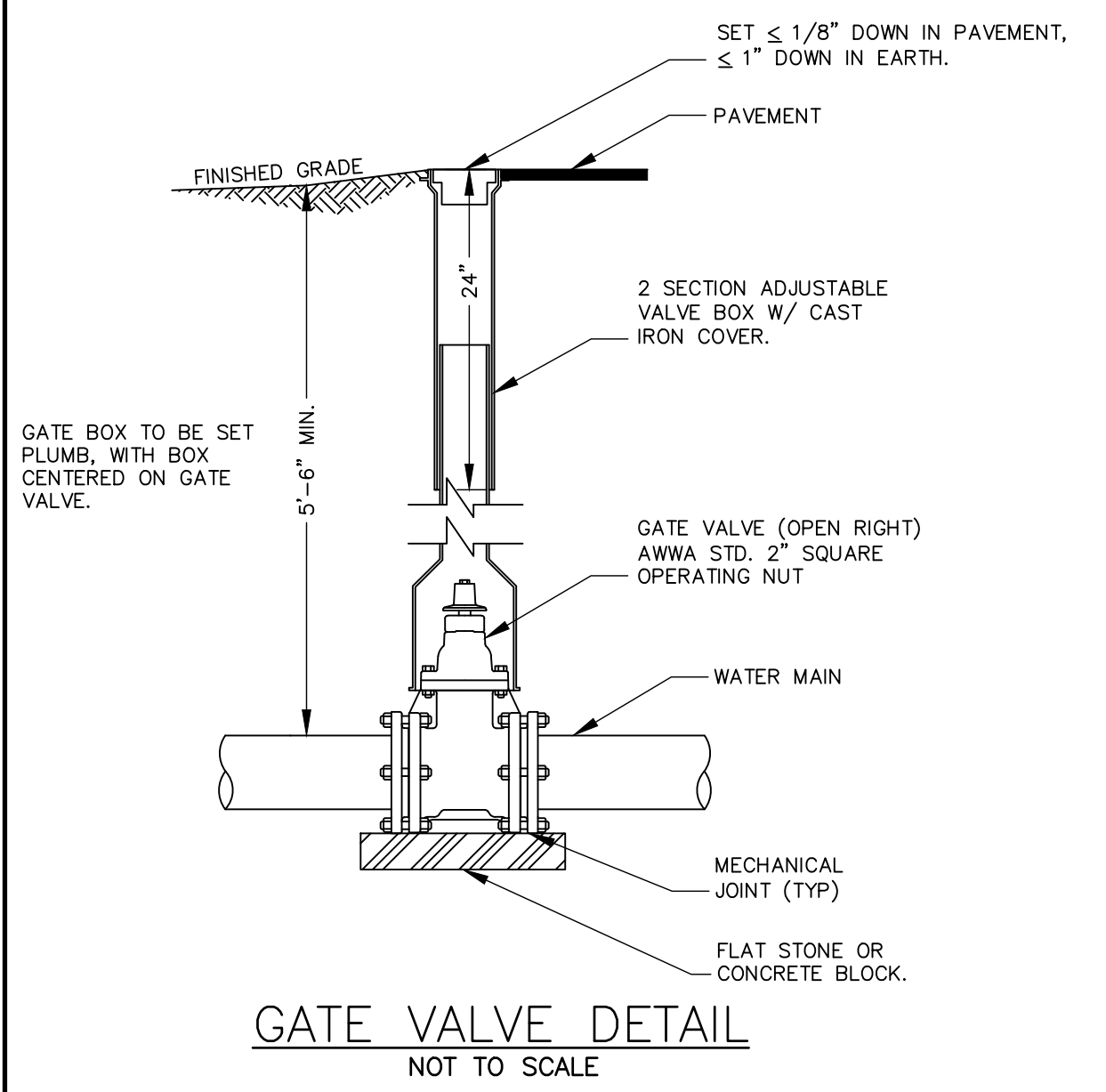
CITY OF KEENE
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MARLBORO STREET
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 KEENE, NH

SHEET TITLE
**WATER & SEWER
 DETAILS**

DRAWN BY	DATE
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NJS	

SHEET NUMBER
D-2
 SHEET 28 OF 28



NOTE: 1. CAST IN PLACE CONCRETE NOT ALLOWED WITHOUT APPROVAL OF ENGINEER. 2. PIPE LARGER THAN 12" WILL REQUIRE USE OF CAST IN PLACE CONCRETE. 3. WIDTH (W) WILL BE APPROXIMATELY EQUAL TO HEIGHT (H).

NOTE: ALL GASKETS, SEALANTS, MORTAR, ETC... SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS

SQUARE FEET BEARING SURFACE REQUIRED (L x H)				
FITTING TYPE/SIZE	6"	8"	10"	12"
90° BEND	3	6	9	12
HYDRANT, TEE, CAP	3	4	6	9
45°, 22°, 11.25° BEND	2	3	5	7

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