Bristol East

Waterline Replacement Project

Bristol Selectboard 90% Design Review

October 12, 2026



VTM Engineering, PLC

Background

- Pre-2020 – The Bristol distribution system was losing roughly twice as much water as it was selling to customers on an annual basis (200% leakage rate). The average municipal water system leakage rate is approximately 15% - 20% according to AWWA.
- Bristol was also experiencing a lack of adequate water flow and water pressure in parts of their distribution system during fire fighting activities.
- 2020 - Bristol contracts with Green Mountain Engineering (GME) to complete am evaluation of the water distribution system and provide a Preliminary Engineering Report (PER) of their findings.
- 2021 - GME submits the PER. The PER confirms that more than one half of Bristol's water distribution system was installed in 1905 and is well beyond its useful service life. The conclusion of the PER was to replace all of the 1905 waterlines (> 30,000 lf) and upsize several other water mains.

Background

- 2022 - Bristol contracts with VTM Engineering in 2023 to assist with developing a masterplan to complete the project as well as obtaining State/Federal financing to fund the project.
- 2022 - The project was too large from a financial as well as logistical perspective to take on as a singe construction project.
- The Water Commission ultimately decided to split the project into four distinct phases:

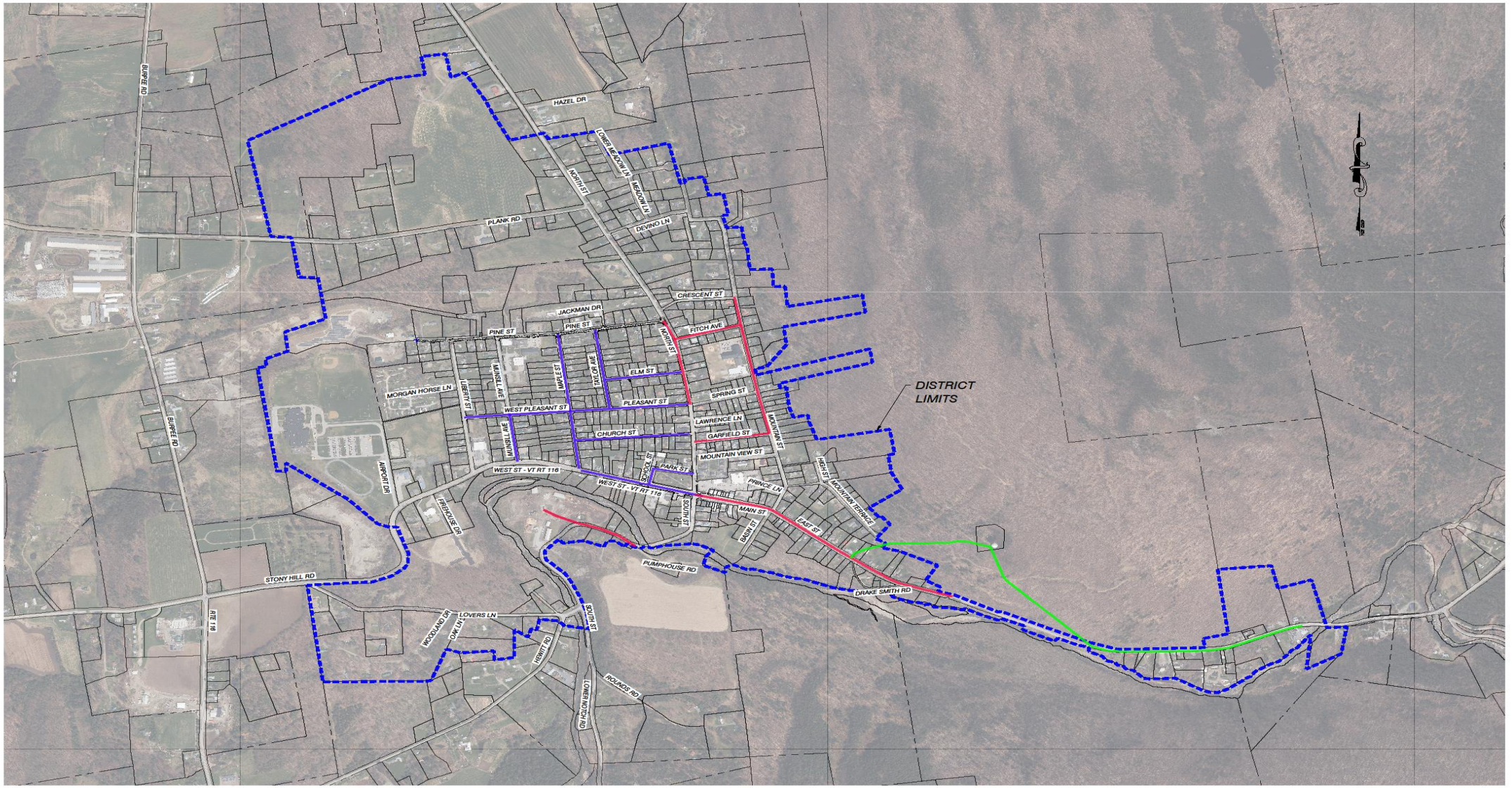
  Phase 1 - Pine Street

  Phase 2 - Bristol West

  Phase 3 – Bristol East

  Phase 4 – Rockydale (AKA mountain areas)

Bristol 1905 Waterline Replacement Phasing Plan



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HINESBURG, VT 05461
(802) 233-7531

PRELIMINARY PLANS
NOT FOR CONSTRUCTION

TOWN WATER SYSTEM

BRISTOL WEST WATER REPLACEMENT PROJECT

TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL VT 05443

DESIGNED SP
DRAWN PM
CHECKED SP
PLOT DATE –
SCALE AS SHOWN
DATE –

PROJECT NO. 22.1.3

DRAWING NO. MAP 1

Masterplan Schedule (updated)

Town of Bristol, Vermont
1905 Waterline Replacement
Master Project Schedule

Revision Date 10/9/26

Segment	Milestone	2023				2024				2025				2026				2027				2028				2029				2030				2031			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Phase 1 - Pine Street	Project is complete																																				
Phase 2 Bristol West	Step 2 - DWSRF Funding Application Submittal/Approval																																				
	Step 2 - Eng. Services Contract - DWSRF/WID Review & Approval																																				
	Step 2 - Surveying/Design																																				
	Step 2 - Archeology & Environmental																																				
	Step 2 - Wetlands/Endangered Species, etc.					N/A																															
	Step 2 - Opinion of Probable Construction Cost																																				
	Step 2 - Bond Preparation/Vote																																				
	Step 2 - Bid Document Preparation & WID Approval																																				
	Step 2 - Construction Permit Submittal/Approval																																				
	Step 2 - DWSRF Priority List Application Feb. Submital/June Approval																																				
	Step 3 - ESA Amendment (Town & DWSRF Review & Approval)																																				
	Step 3 - DWSRF Bid Process/Award/Contract Signing																																				
	Step 3 - Material Submittals & Approvals																																				
	Step 3 - Construction (2 segments, approx. 5,000' each year)																																				
Phase 3 Bristol East	Step 2 - EPA Lead Funding Application Submittal/Approval																																				
	Step 2 - Eng. Services Contract - DWSRF/WID Review & Approval																																				
	Step 2 - Surveying/Design/Hydraulic Modeling																																				
	Step 2 - Archeology & Environmental (preliminary & Final)																																				
	Step 2 - Wetlands/Endangered Species, etc.													N/A																							
	Step 2 - Opinion of Probable Construction Cost																																				
	Step 2 - Bond Preparation/Vote/Approval																																				
	Step 2 - Bid Document Preparation & WID Approval																																				
	Step 2 - Construction Permit Submittal/Approval																																				
	Step 2 - Lead Priority List Application. Funding Application/Approval																																				
	Step 2 - Easements (Construction & potentially permanent) [1]																																				
	Step 3 - ESA Amendment (Town & DWSRF Review & Approval)																																				
	Step 3 - DWSRF Bid Process/Award/Contract Signing																																				
	Step 3 - Material Submittals & Approvals																																				
	Step 3 - Contract Award/Construction (2 segments, approx. 5,000' each year)																																				
Phase - 4 Rockydale/Slopeside +	Step 1 - Alternatives Analysis/PER Amendment																																				
	Step 2 - DWSRF Funding Application/Approval (Step 2/Step 3)																																				
	Step 2 - Eng. Services Contract - DWSRF/WID Review & Approval																																				
	Step 2 - Surveying/Design																																				
	Step 2 - Archeology & Environmental																																				
	Step 2 - Wetlands/Endangered Species, etc.																																				
	Step 2 - Opinion of Probable Construction Cost																																				
	Step 2 - Bond Preparation/Vote																																				
	Step 2 - Bid Document Preparation & WID Approval																																				
	Step 2 - Construction & Other? Permits/Approval																																				
	Step 2 - DWSRF Priority List Application Feb. Submital/June Approval																																				
	Step 3 - ESA Amendment (Town & DWSRF Review & Approval)																																				
	Step 3 - DWSRF Bid Process/Award																																				
	Step 3 - Material Submittals & Approvals																																				
	Step 3 - Contract Award/Construction																																				

Curent Timeline

Legend

Task is Complete

Task Still To Be Completed

1. Task not within the current Engineering Services Agreement

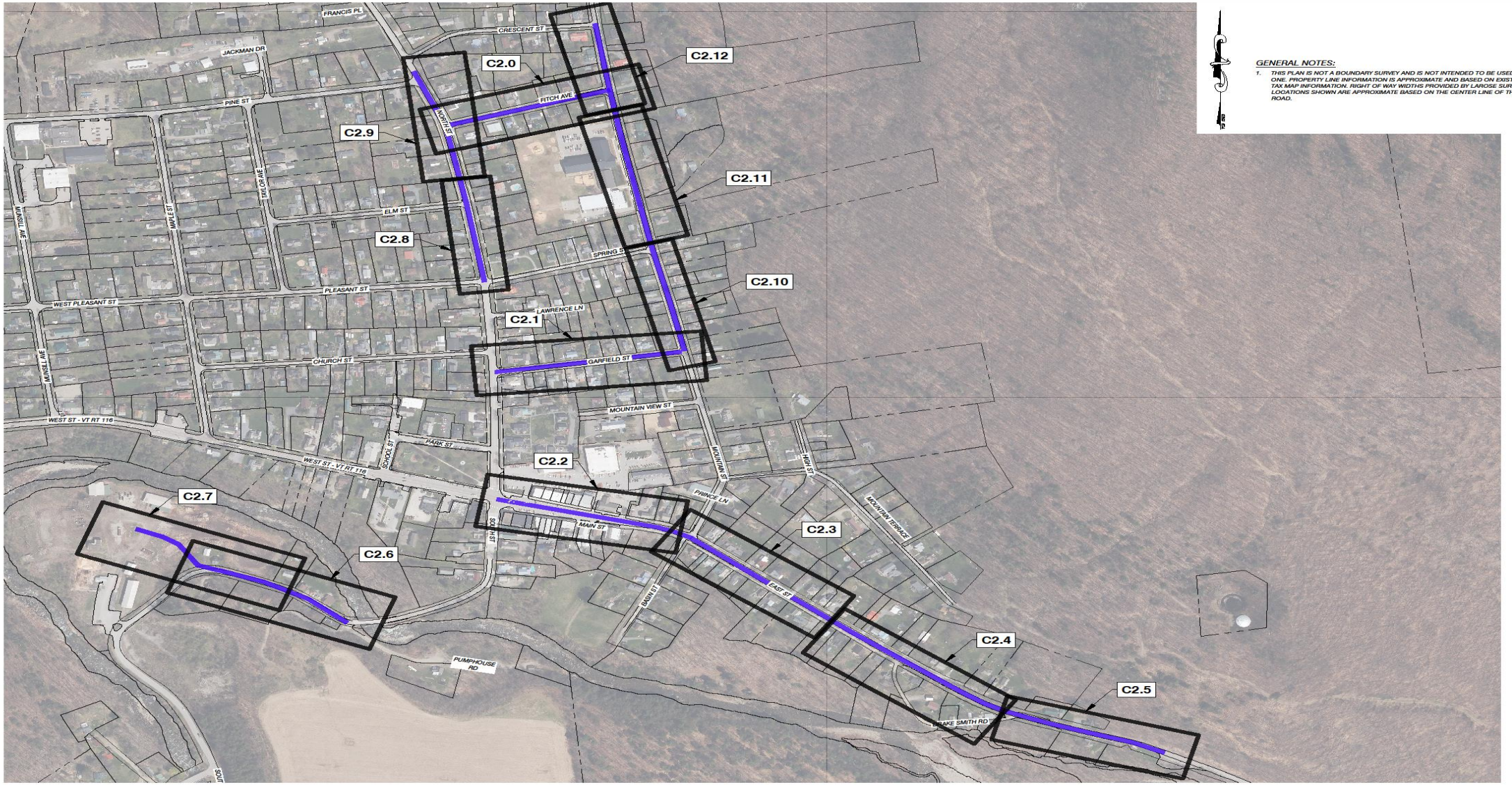
Schedule Qualifications

1. The Bristol Transmission Line replacement under the New Haven River may be added to the scope of work. Permitting needs will need to be evaluated.
2. Lawrence Lane is believed to be 1905 cast iron and was not included in the original 1905 inventory and was therefore not approved as part the PER. This may be added to the Phase 4 (Rockydale) scope of work.
3. Phase 4 - An Alternatives Analysis should be conducted for the section of 1905 line from the storage tank to Rockydale. Results could potentially impact the schedule and scope of work.
4. Phase 4 – An Alternatives Analysis needs to be completed. Mapped wetlands, endangered species and bat habitat are all located in and adjacent to the existing phase 4 work areas. Permitting challenges could potentially delay this portion of the schedule.

Bristol East – Approximate Lengths

Phase 3 - Bristol East Waterline Replacement Project		
Approximate Waterline Lengths		
	Existing	**Proposed**
Street	**Length**	**Length**
Mountain	1,790	1,790
Fitch	690	690
North	1,115	1,115
Garfield	775	775
South Street	1,040	1,040
Main Street	350	350
Main Street Service Loops	622	0
East Street	2,550	2,550
	8,932	**8,310**

Garfield Street



GENERAL NOTES:

1. THIS PLAN IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO BE USED AS ONE. PROPERTY LINE INFORMATION IS APPROXIMATE AND BASED ON EXISTING TAX MAP INFORMATION. RIGHT OF WAY WIDTHS PROVIDED BY LAROSE SURVEYS. LOCATIONS SHOWN ARE APPROXIMATE BASED ON THE CENTER LINE OF THE ROAD.

BRISTOL EAST WATER REPLACEMENT - PLAN LAYOUT

SCALE: 1" = 200'

GRAPHIC SCALE

(IN FEET)
1 inch = 200 ft.

REV	DATE	DESCRIPTION	BY

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PRELIMINARY PLANS
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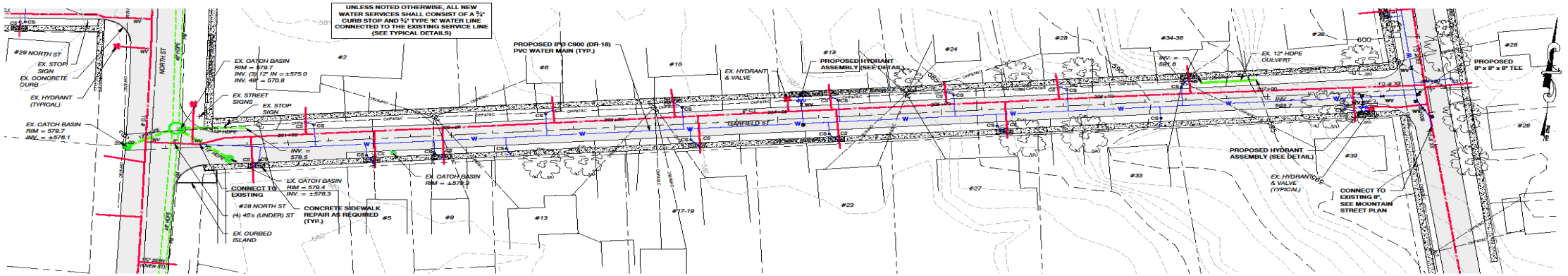
PROGRESS PLANS
10/08/2026

BRISTOL EAST WATER REPLACEMENT

BRISTOL EAST WATER REPLACEMENT PROJECT
TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL VT 05443

DESIGNED	SP
DRAWN	PM
CHECKED	SP
PLOT DATE	–
SCALE	AS SHOWN
DATE	–
PROJECT NO.	–
DRAWING NO.	C1.0

Garfield Street



GARFIELD STREET - SITE PLAN

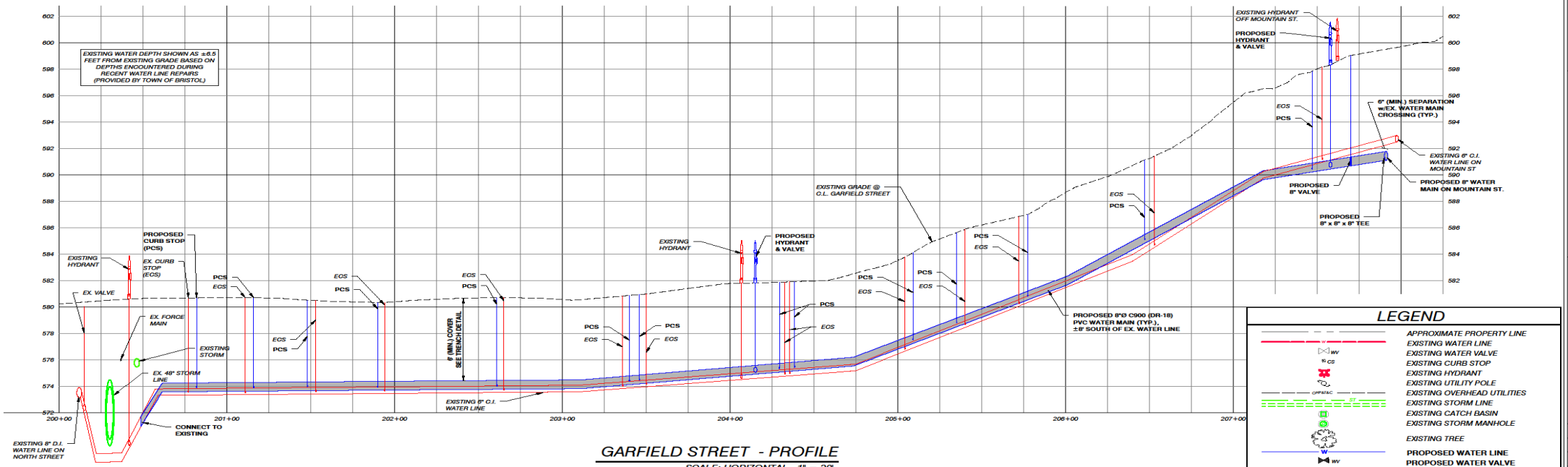
SCALE: 1" = ±30'

GRAPHIC SCALE

(IN FEET)
1 inch = 80 ft.

GENERAL NOTES:

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GARFIELD STREET - PROFILE

SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

LEGEND

- APPROXIMATE PROPERTY LINE
- EXISTING WATER LINE
- EXISTING WATER VALVE
- EXISTING CURB STOP
- EXISTING HYDRANT
- EXISTING UTILITY POLE
- EXISTING OVERHEAD UTILITIES
- EXISTING STORM LINE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING TREE
- PROPOSED WATER LINE
- PROPOSED WATER VALVE
- PROPOSED CURB STOP
- PROPOSED HYDRANT
- PROPOSED THRUST BLOCK
- PROPOSED STORM LINE
- PROPOSED CATCH BASIN

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REV.	DATE	DESCRIPTION	BY

PRELIMINARY PLANS
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PROGRESS PLANS 10/08/2026

GARFIELD STREET PLAN & PROFILE

BRISTOL EAST WATER REPLACEMENT PROJECT

TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL VT 05443

DESIGNED SP
DRAWN PM
CHECKED SP
PLOT DATE –
SCALE AS SHOWN
DATE –
PROJECT NO. –

DRAWING NO.
C2.1

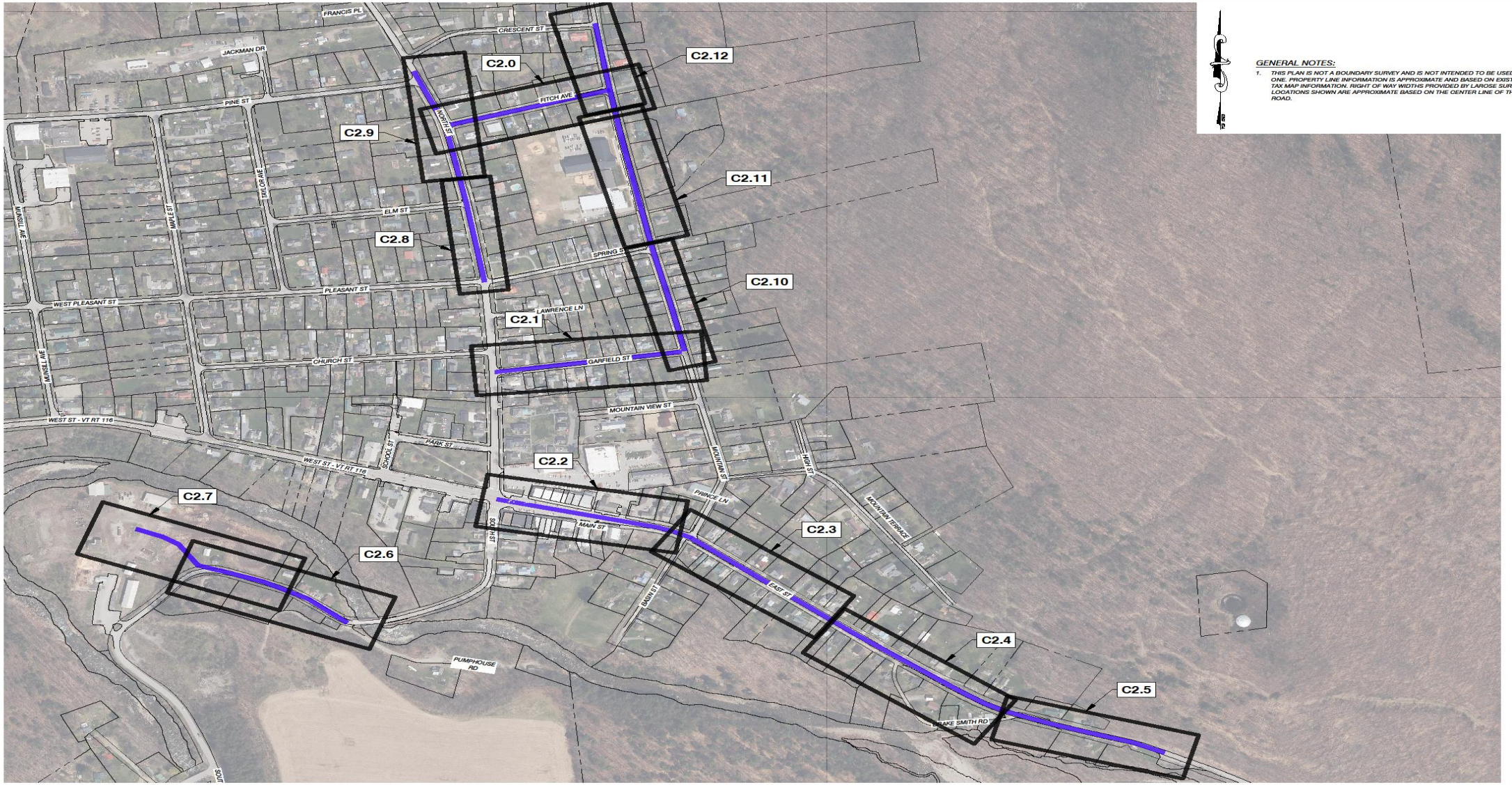
Garfield Street



Garfield Street



Fitch Avenue



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BRISTOL EAST WATER
REPLACEMENT - PLAN LAYOUT
SCALE: 1" = 200'

GRAPHIC SCALE
(IN FEET)
1 inch = 200 ft.

BY	DESCRIPTION	DATE	REV

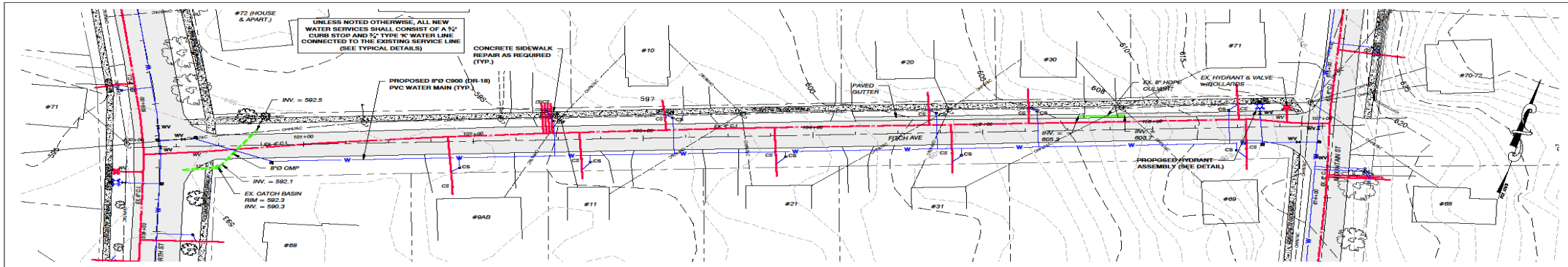
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PRELIMINARY PLANS
NOT FOR CONSTRUCTION
PROGRESS PLANS
10/08/2026

BRISTOL EAST WATER REPLACEMENT

SUBMITTED	
PROJECT	BRISTOL EAST WATER REPLACEMENT PROJECT
CLIENT	TOWN OF BRISTOL 1 SOUTH STREET, BRISTOL VT 05443
DESIGNED	SP
PLOT DATE	–
DRAWN	PM
SCALE	AS SHOWN
CHECKED	SP
DATE	–
PROJECT NO.	–
DRAWING NO.	C1.0

Fitch Avenue



FITCH AVE - SITE PLAN

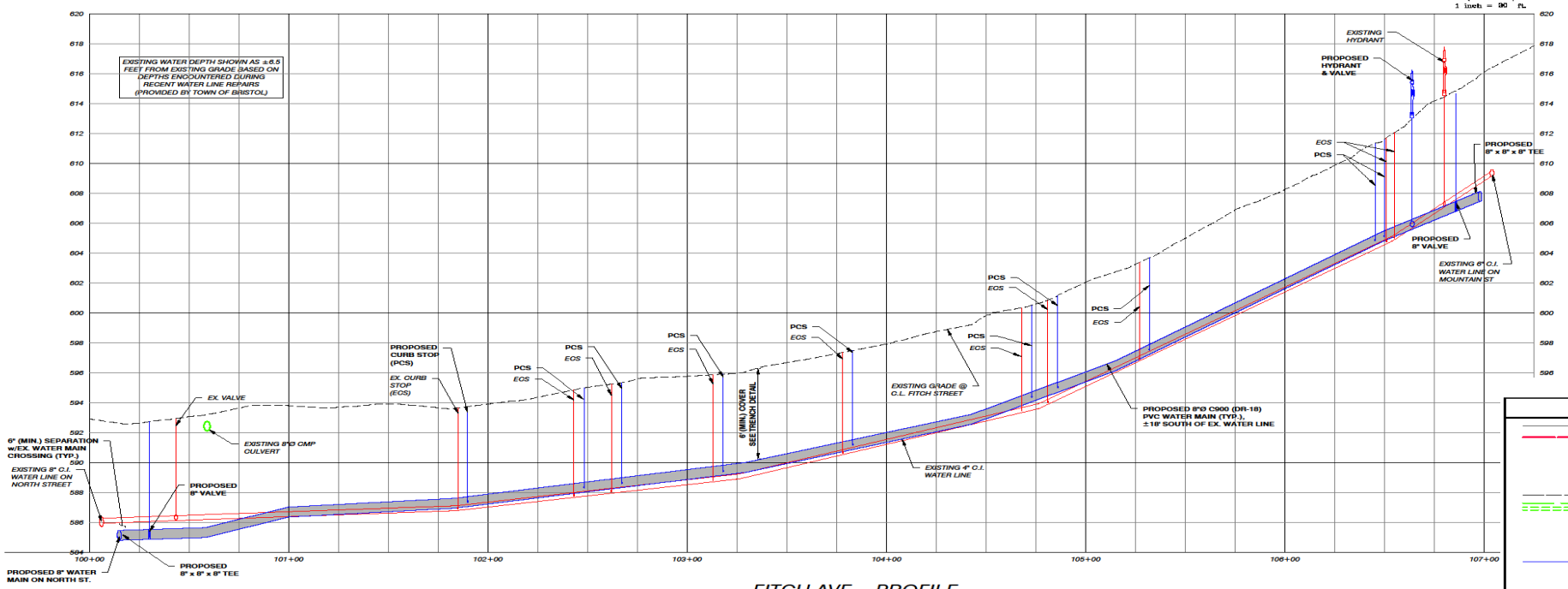
SCALE: 1" = ±30'

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

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FITCH AVE - PROFILE

SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

LEGEND

- APPROXIMATE PROPERTY LINE
- EXISTING WATER LINE
- EXISTING WATER VALVE
- EXISTING CURB STOP
- EXISTING HYDRANT
- EXISTING UTILITY POLE
- EXISTING OVERHEAD UTILITIES
- EXISTING STORM LINE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
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- PROPOSED WATER LINE
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- PROPOSED THRUST BLOCK
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- PROPOSED CATCH BASIN

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PRELIMINARY PLANS
NOT FOR CONSTRUCTION
PROGRESS PLANS
10/08/2026

FITCH AVENUE
PLAN & PROFILE

BRISTOL EAST WATER
RER-ACHIEVMENT PROJECT

TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL VT 05443

DESIGNED SP
DRAWN PM
CHECKED SP
PLOT DATE –
SCALE AS SHOWN
DATE –

PROJECT NO.

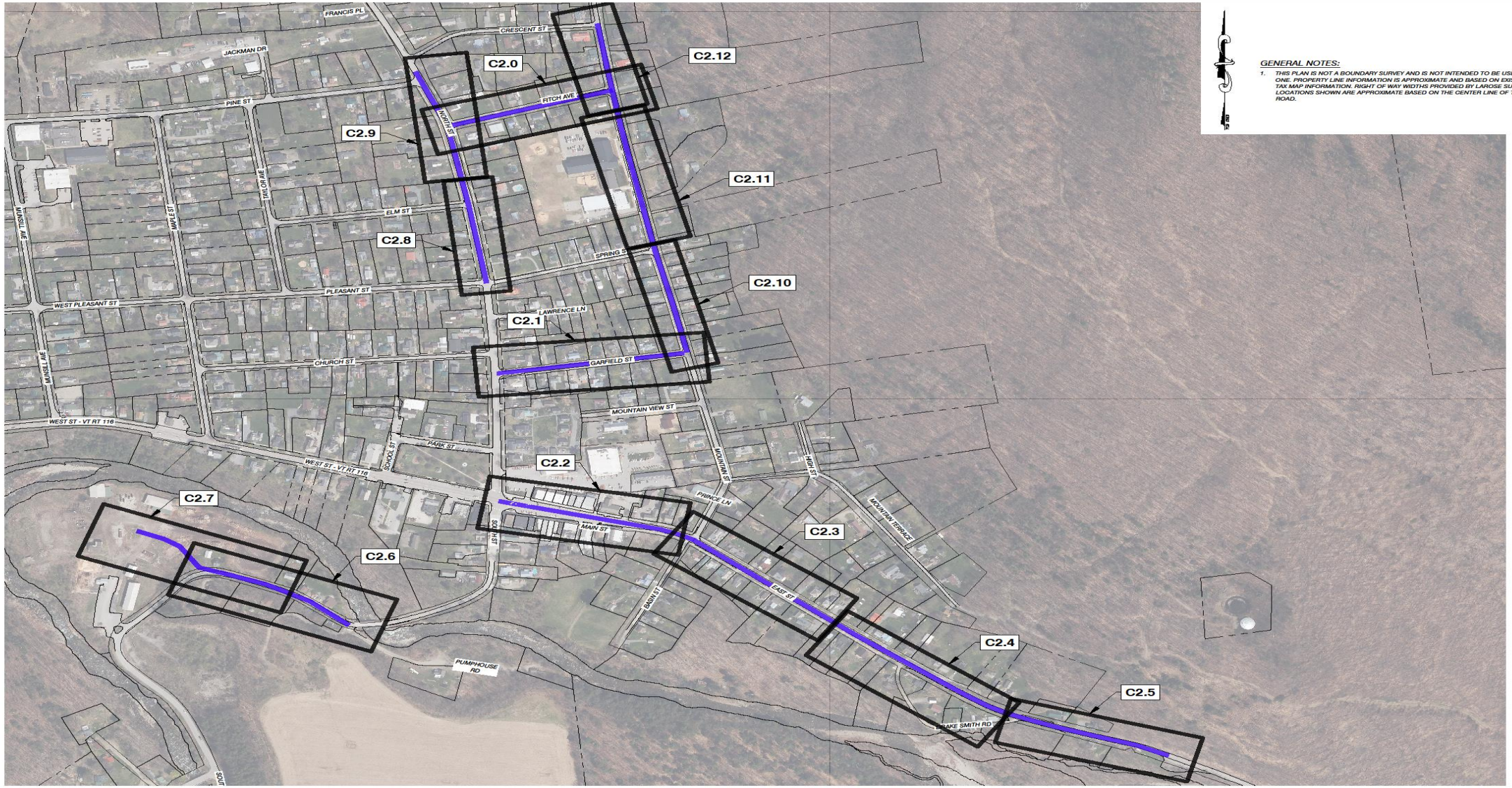
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C2.0

Fitch Avenue



Fitch @ North facing east

North Street (Spring to Pine)



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BRISTOL EAST WATER
REPLACEMENT - PLAN LAYOUT
SCALE: 1" = 200'

GRAPHIC SCALE
(IN FEET)
1 inch = 200 ft.

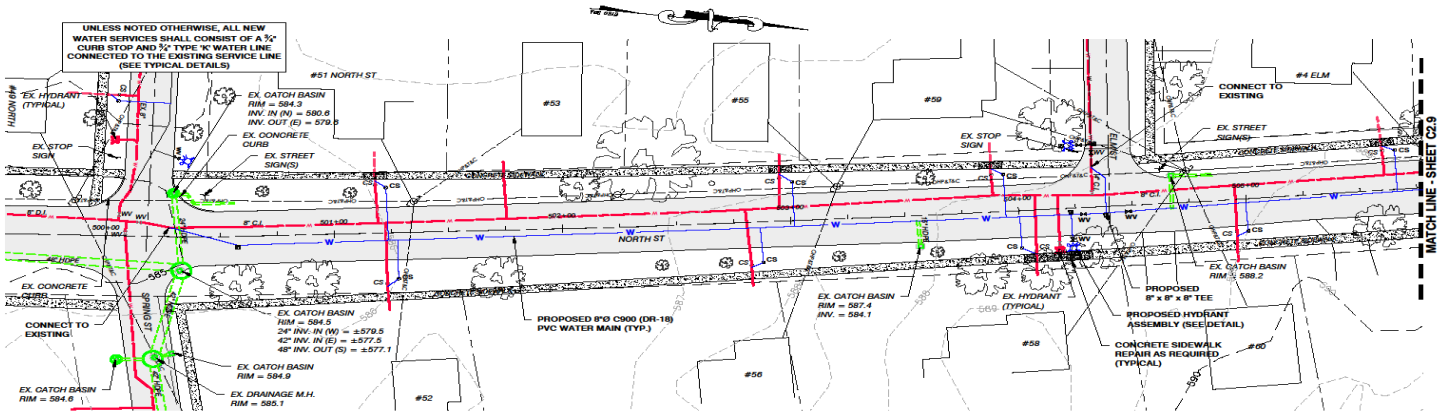
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PRELIMINARY PLANS
NOT FOR CONSTRUCTION
PROGRESS PLANS
10/08/2026

BRISTOL EAST WATER REPLACEMENT
BRISTOL EAST WATER REPLACEMENT PROJECT
TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL, VT 05443

DESIGNED SP
DRAWN PM
CHECKED SP
PLOT DATE –
SCALE AS SHOWN
DATE –
PROJECT NO.
DRAWING NO. C1.0

North Street (Spring to Pine)



GENERAL NOTES:

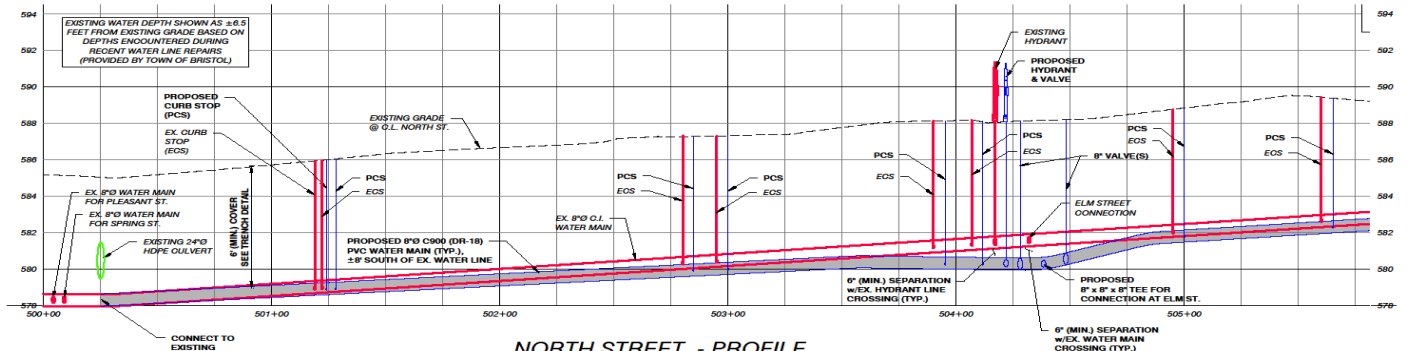
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NORTH STREET - SITE PLAN

SCALE: 1" = ±30'

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.



NORTH STREET - PROFILE

SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

LEGEND

- APPROXIMATE PROPERTY LINE
- EXISTING WATER LINE
- EXISTING WATER VALVE
- EXISTING CURB STOP
- EXISTING HYDRANT
- EXISTING UTILITY POLE
- EXISTING OVERHEAD UTILITIES
- EXISTING STORM LINE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING TREE
- PROPOSED WATER LINE
- PROPOSED WATER VALVE
- PROPOSED CURB STOP
- PROPOSED HYDRANT
- PROPOSED THRUST BLOCK
- PROPOSED STORM LINE
- PROPOSED CATCH BASIN

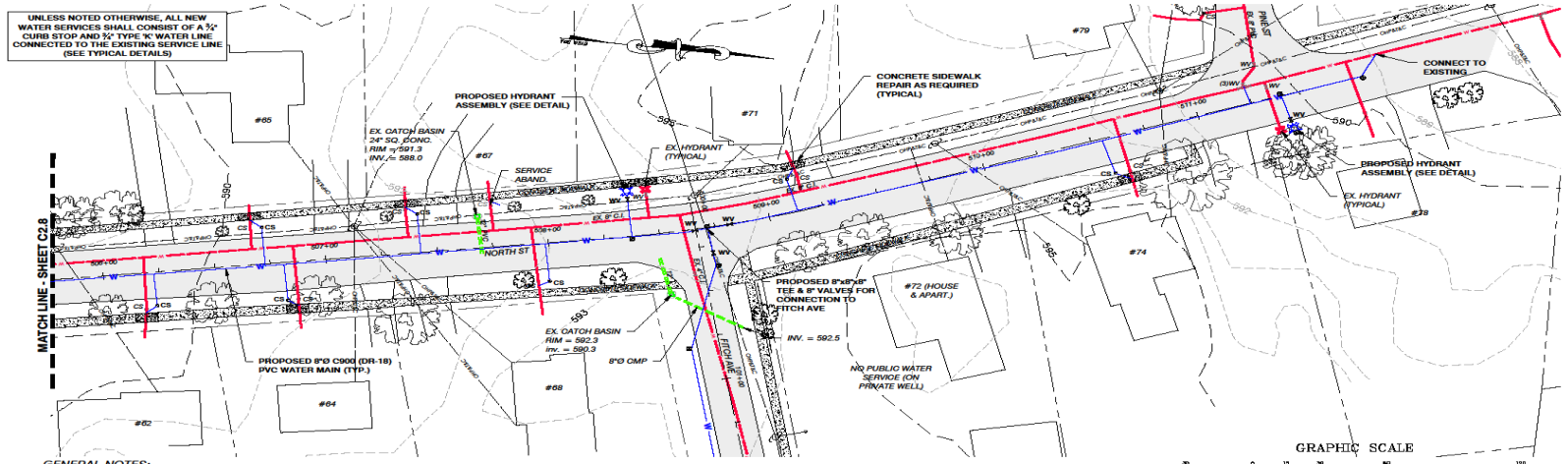
BY	DESCRIPTION	REV.	DATE

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PRELIMINARY PLANS
NOT FOR CONSTRUCTION
PROGRESS PLANS 10/08/2026

DRAWING TITLE	NORTH STREET PLAN & PROFILE
PROJECT	BRISTOL EAST WATER REPLACEMENT PROJECT
CLIENT	TOWN OF BRISTOL 1 SOUTH STREET, BRISTOL VT 05443
DESIGNED	SP
PLOT DATE	–
DRAWN	PM
SCALE	AS SHOWN
CHECKED	SP
DATE	–
PROJECT NO.	–
DRAWING NO.	C2.8

North Street (Spring to Pine)

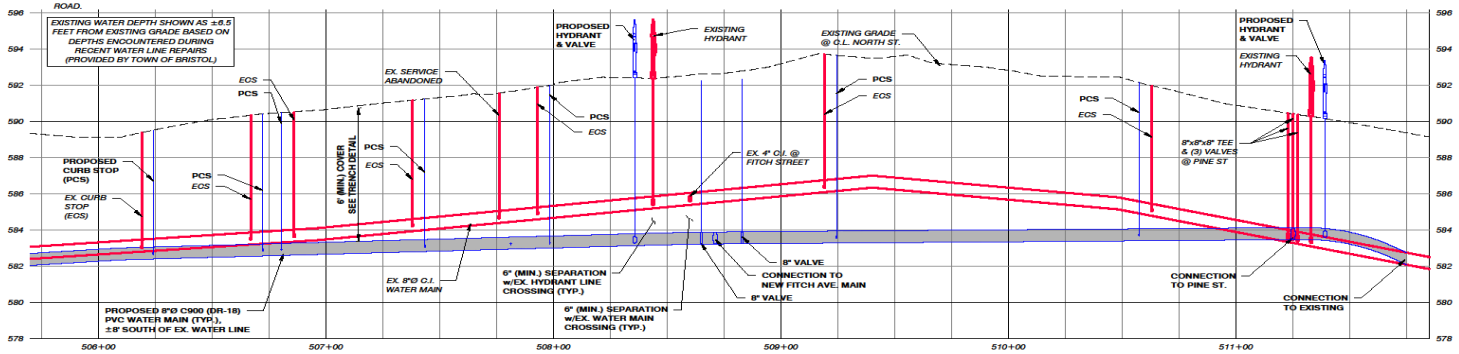


NORTH STREET - SITE PLAN

SCALE: 1" = ±30'

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NORTH STREET - PROFILE

SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

LEGEND

- APPROXIMATE PROPERTY LINE
- EXISTING WATER LINE
- EXISTING WATER VALVE
- EXISTING CURB STOP
- EXISTING HYDRANT
- EXISTING UTILITY POLE
- EXISTING OVERHEAD UTILITIES
- EXISTING STORM LINE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING TREE
- PROPOSED WATER LINE
- PROPOSED WATER VALVE
- PROPOSED CURB STOP
- PROPOSED HYDRANT
- PROPOSED THRUST BLOCK
- PROPOSED STORM LINE
- PROPOSED CATCH BASIN

NO.	DESCRIPTION	DATE	BY

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PRELIMINARY PLANS
NOT FOR CONSTRUCTION
PROGRESS PLANS 10/08/2026

NORTH STREET PLAN & PROFILE

BRISTOL EAST WATER REPLACEMENT PROJECT

TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL, VT 05443

DESIGNED	SP
DRAWN	PM
CHECKED	SP
PLOT DATE	–
SCALE	AS SHOWN
DATE	–

PROJECT NO.
–

DRAWING NO.
C2.9

North Street



North St.@ Spring facing north

West Pleasant & Taylor



North Street

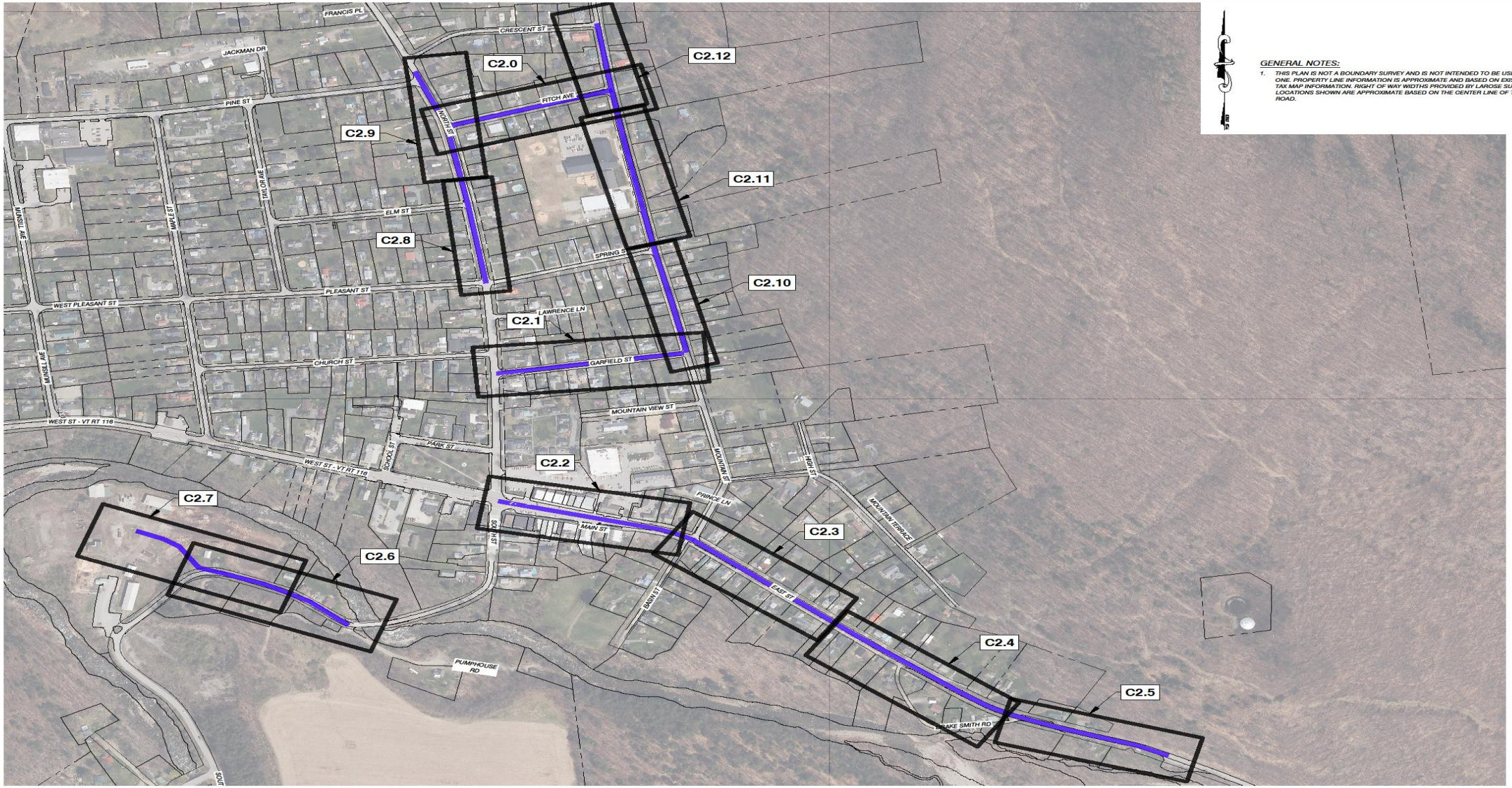


North St. @ Fitch facing north

North Street



Mountain Street (Garfield to Crescent)



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BRISTOL EAST WATER
REPLACEMENT - PLAN LAYOUT
SCALE: 1" = 200'

GRAPHIC SCALE
(IN FEET)
1 inch = 200 ft.

BY | DESCRIPTION | DATE | REV

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PRELIMINARY PLANS
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PROGRESS PLANS
10/08/2026

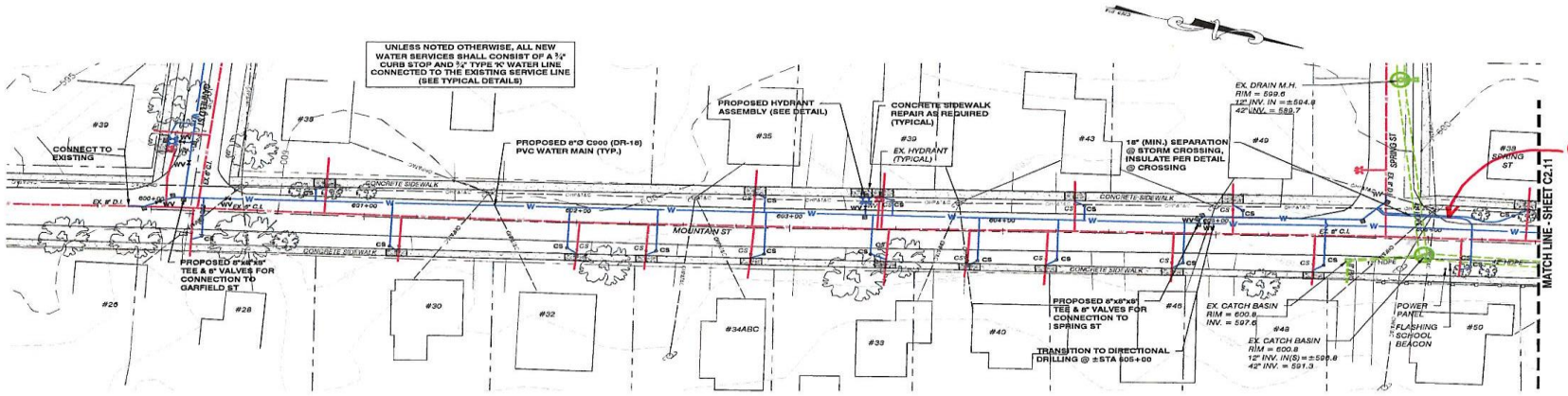
DRAWING TITLE: BRISTOL EAST WATER REPLACEMENT
PROJECT: BRISTOL EAST WATER REPLACEMENT PROJECT
CLIENT: TOWN OF BRISTOL, 1 SOUTH STREET, BRISTOL, VT 05443

DESIGNED	SP
DRAWN	PM
CHECKED	SP
PLOT DATE	–
SCALE	AS SHOWN
DATE	–

PROJECT NO.

DRAWING NO.
C1.0

Mountain Street (Garfield to Crescent)



GENERAL NOTES:

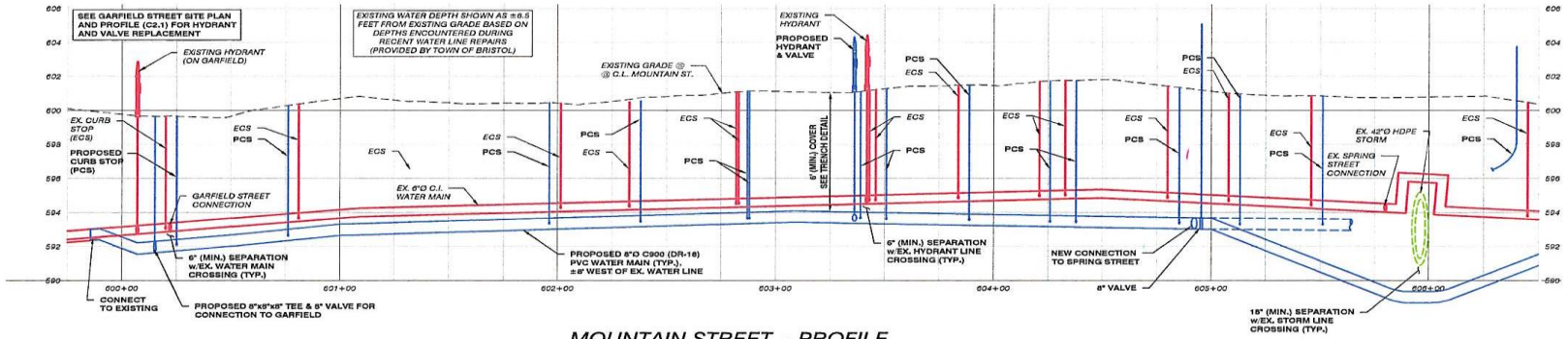
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MOUNTAIN STREET - SITE PLAN

SCALE: 1" = ±30'

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.



MOUNTAIN STREET - PROFILE

SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

LEGEND

- APPROXIMATE PROPERTY LINE
- EXISTING WATER LINE
- EXISTING WATER VALVE
- EXISTING CURB STOP
- EXISTING HYDRANT
- EXISTING UTILITY POLE
- EXISTING OVERHEAD UTILITIES
- EXISTING STORM LINE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING TREE
- PROPOSED WATER LINE
- PROPOSED WATER VALVE
- PROPOSED CURB STOP
- PROPOSED HYDRANT
- PROPOSED THRUST BLOCK
- PROPOSED STORM LINE
- PROPOSED CATCH BASIN

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PROGRESS PLANS
10/08/2026

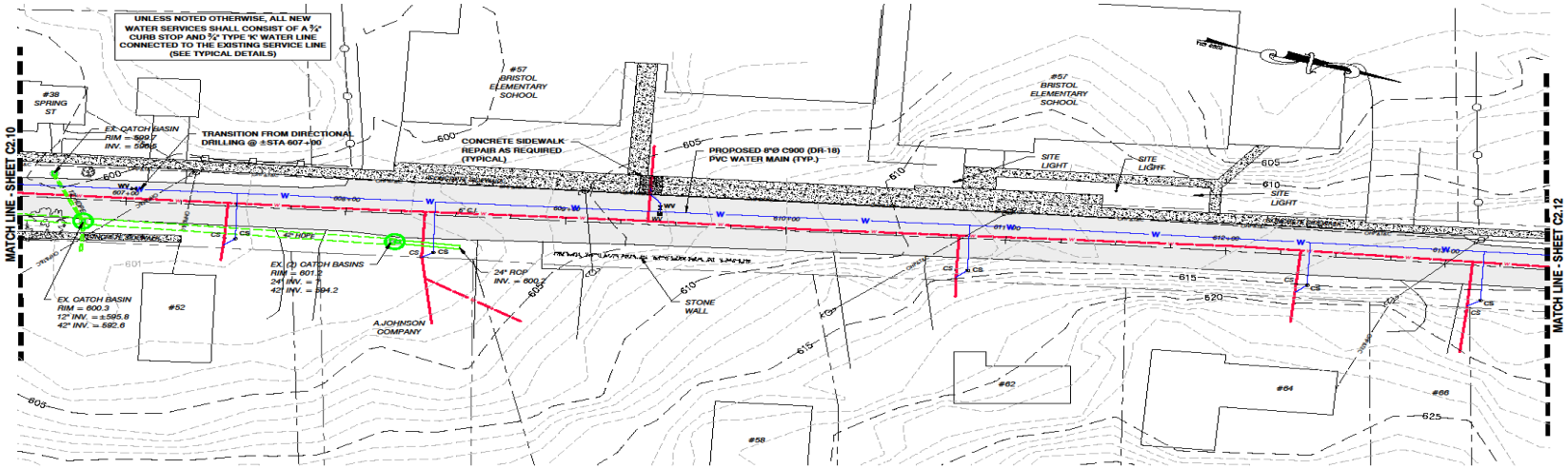
MOUNTAIN STREET
PLAN & PROFILE

BRISTOL EAST WATER
REPLACEMENT PROJECT
TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL, VT 05443

DESIGNED: SP
DRAWN: PM
CHECKED: SP
SCALE: AS SHOWN
PROJECT NO.

DRAWING NO.
C2.10

Mountain Street (Garfield to Crescent)



GENERAL NOTES:

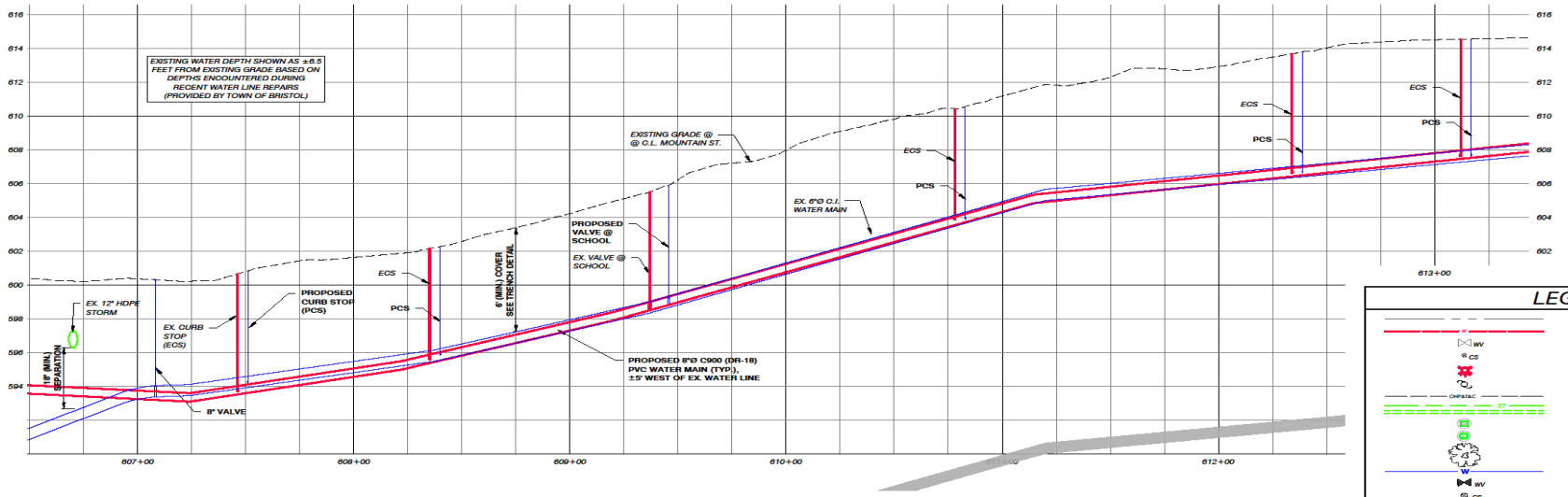
1. THIS PLAN IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO BE USED AS ONE. PROPERTY LINE INFORMATION IS APPROXIMATE AND BASED ON EXISTING TAX MAP INFORMATION. RIGHT OF WAY WIDTHS PROVIDED BY LAROSE SURVEYS. LOCATIONS SHOWN ARE APPROXIMATE BASED ON THE CENTER LINE OF THE ROAD.

MOUNTAIN STREET - SITE PLAN

SCALE: 1" = ±30'

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.



MOUNTAIN STREET - PROFILE

SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

LEGEND

- APPROXIMATE PROPERTY LINE
- EXISTING WATER LINE
- EXISTING WATER VALVE
- EXISTING CURB STOP
- EXISTING HYDRANT
- EXISTING UTILITY POLE
- EXISTING OVERHEAD UTILITIES
- EXISTING STORM LINE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING TREE
- PROPOSED WATER LINE
- PROPOSED WATER VALVE
- PROPOSED CURB STOP
- PROPOSED HYDRANT
- PROPOSED THRUST BLOCK
- PROPOSED STORM LINE
- PROPOSED CATCH BASIN

BY	DESCRIPTION	DATE	REV.

VTM ENGINEERING, PLC
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HINESBURG, VT 05461
(802) 233-7531

PRELIMINARY PLANS
NOT FOR CONSTRUCTION
PROGRESS PLANS
10/08/2026

MOUNTAIN STREET PLAN & PROFILE

BRISTOL EAST WATER REPLACEMENT PROJECT

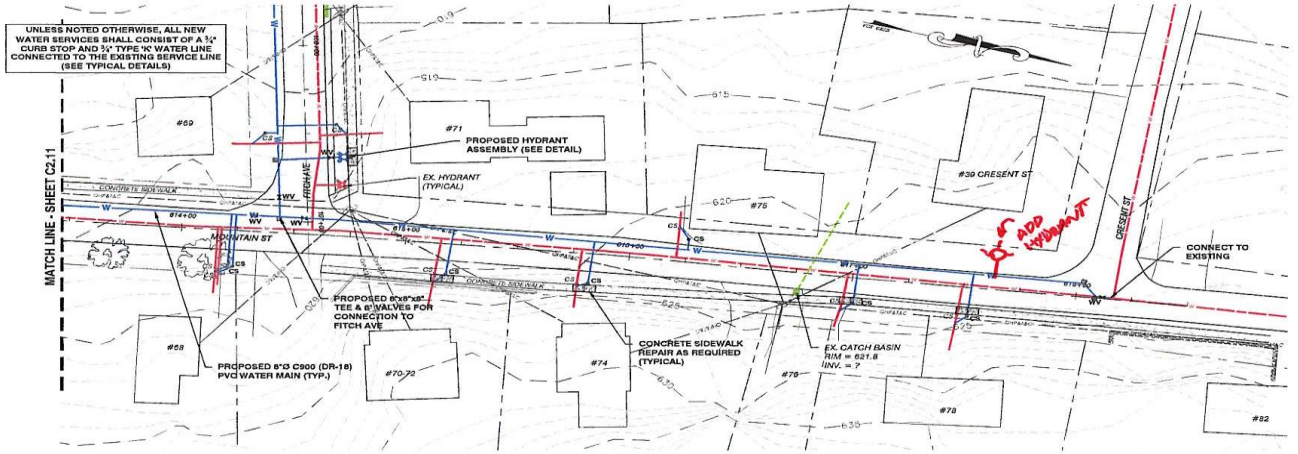
TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL VT 05443

DESIGNED	SP	PLOT DATE	–
DRAWN	PM	SCALE	AS SHOWN
CHECKED	SP	DATE	–

PROJECT NO.
–

DRAWING NO.
C2.11

Mountain Street (Garfield to Crescent)



MOUNTAIN STREET - SITE PLAN

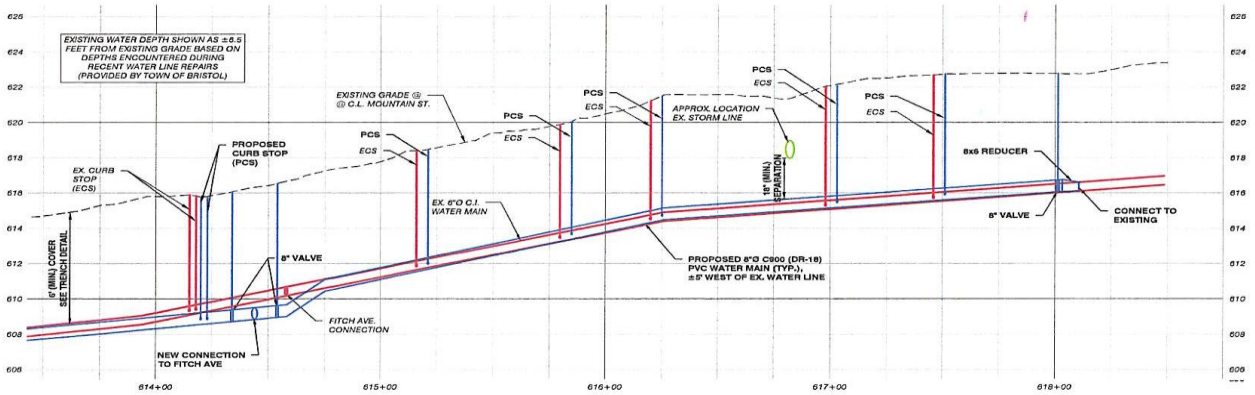
SCALE: 1" = ±30'

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

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MOUNTAIN STREET - PROFILE

SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

LEGEND

- APPROXIMATE PROPERTY LINE
- EXISTING WATER LINE
- EXISTING WATER VALVE
- EXISTING CURB STOP
- EXISTING HYDRANT
- EXISTING UTILITY POLE
- EXISTING OVERHEAD UTILITIES
- EXISTING STORM LINE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING TREE
- PROPOSED WATER LINE
- PROPOSED WATER VALVE
- PROPOSED CURB STOP
- PROPOSED HYDRANT
- PROPOSED THRUST BLOCK
- PROPOSED STORM LINE
- PROPOSED CATCH BASIN

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PRELIMINARY PLANS
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10/08/2026

MOUNTAIN STREET PLAN & PROFILE

BRISTOL EAST WATER REPLACEMENT PROJECT
TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL, VT 05443

DESIGNED SP | PLOT DATE —
DRAWN PM | SCALE AS SHOWN
CHECKED SP | DATE —

PROJECT NO. —

DRAWING NO. C2.12

Mountain Street



Mountain @Garfield looking north

Mountain Street



Mountain @ Spring looking north

Mountain Street

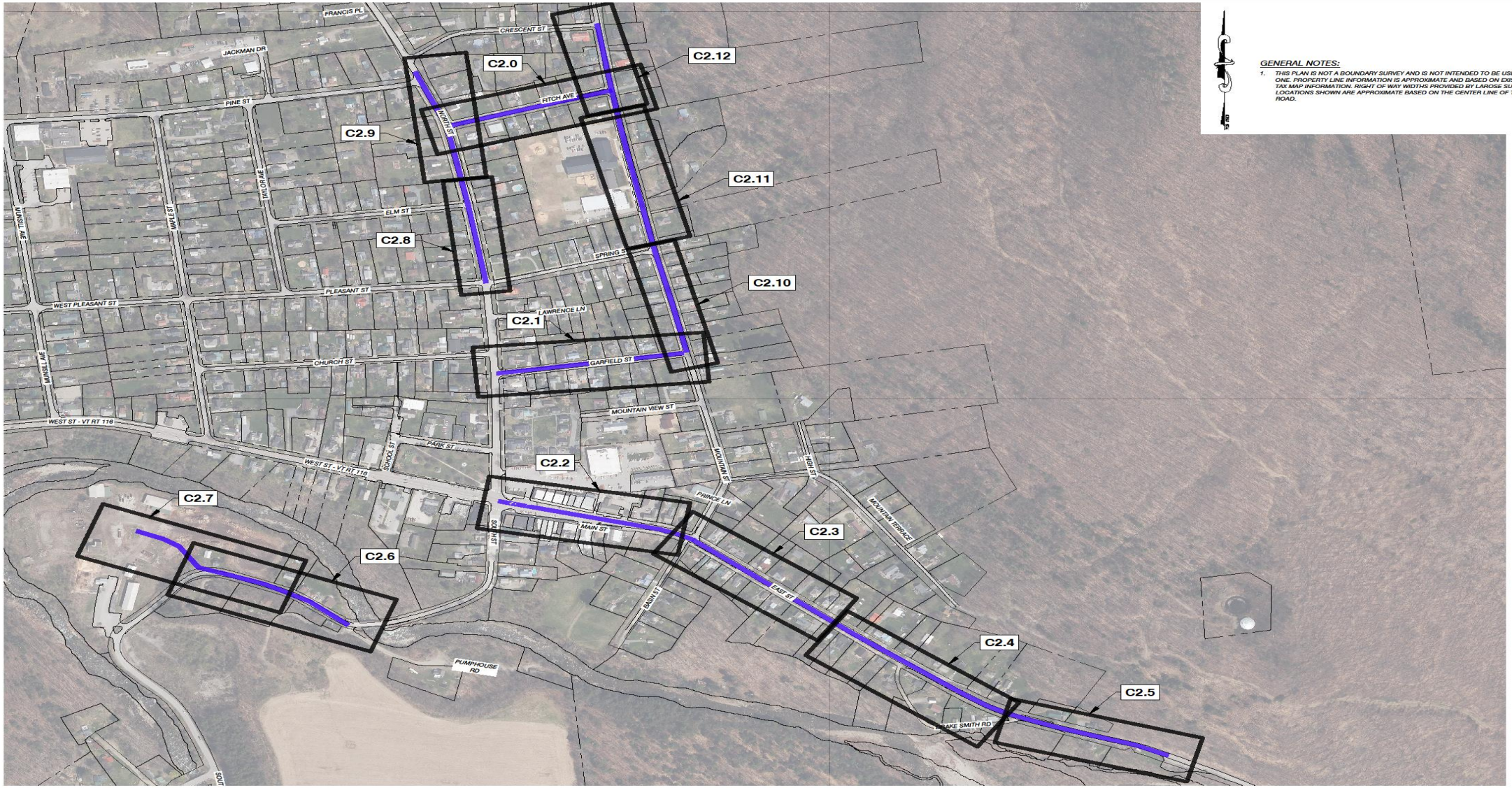


Mountain @ Fitch looking north

Mountain Street



South Street (Pumphouse Road to Mill)



GENERAL NOTES:

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BRISTOL EAST WATER
REPLACEMENT - PLAN LAYOUT
SCALE: 1" = 200'

GRAPHIC SCALE
(IN FEET)
1 inch = 200 ft.

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BRISTOL EAST WATER REPLACEMENT
BRISTOL EAST WATER REPLACEMENT PROJECT
TOWN OF BRISTOL
SOUTH STREET, BRISTOL, VT 05443

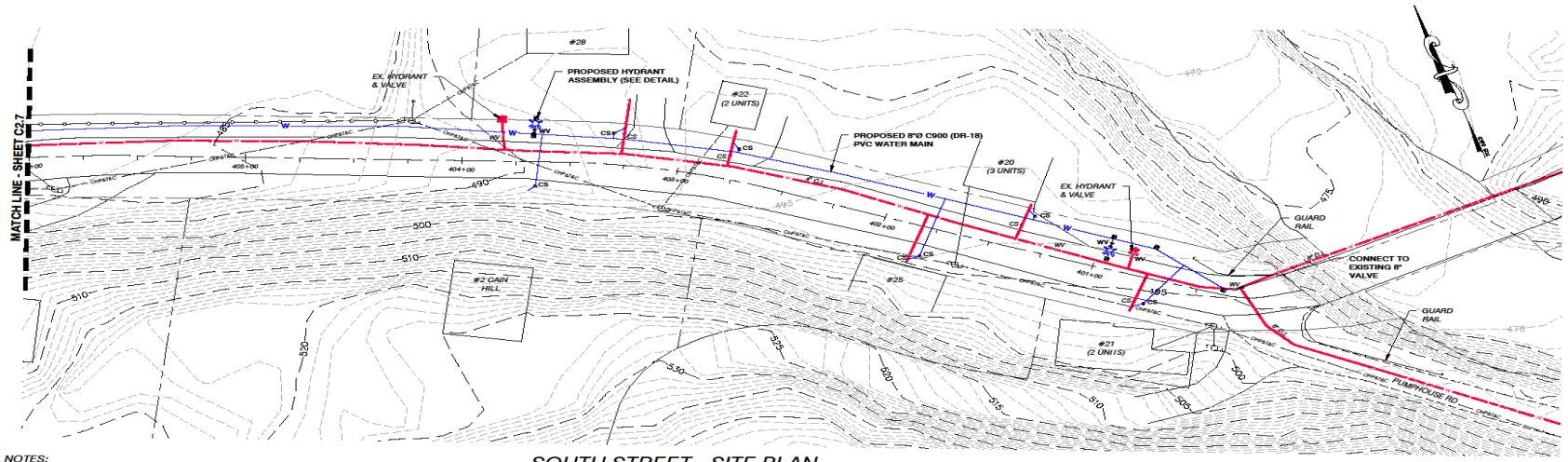
DESIGNED SP
DRAWN PM
CHECKED SP
PLOT DATE –
SCALE AS SHOWN
DATE –
PROJECT NO.
DRAWING NO. C1.0

South Street

UNLESS NOTED OTHERWISE, ALL NEW WATER SERVICES SHALL CONSIST OF A ¾" CURB STOP AND ¾" TYPE 'K' WATER LINE CONNECTED TO THE EXISTING SERVICE LINE (SEE TYPICAL DETAILS)

LEGEND

- APPROXIMATE PROPERTY LINE
- EXISTING WATER LINE
- EXISTING WATER VALVE
- EXISTING CURB STOP
- EXISTING HYDRANT
- EXISTING UTILITY POLE
- EXISTING OVERHEAD UTILITIES
- EXISTING STORM LINE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING TREE
- PROPOSED WATER LINE
- PROPOSED WATER VALVE
- PROPOSED CURB STOP
- PROPOSED HYDRANT
- PROPOSED THRUST BLOCK
- PROPOSED STORM LINE
- PROPOSED CATCH BASIN



GENERAL NOTES:

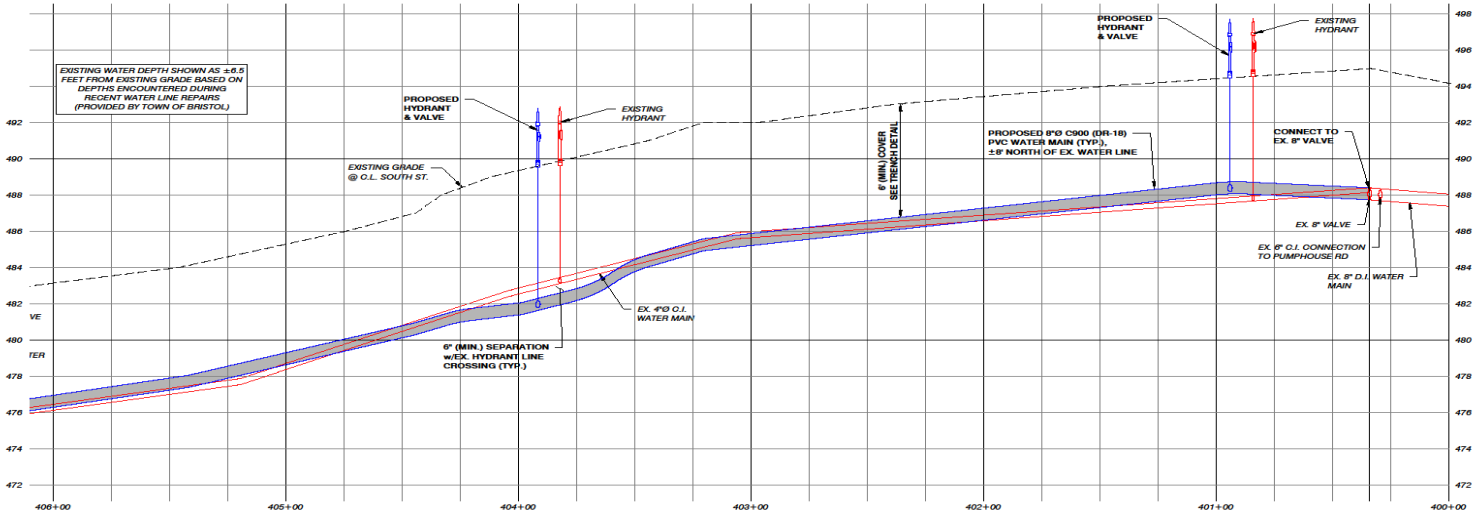
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SOUTH STREET - SITE PLAN

SCALE: 1" = ±30'

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.



SOUTH STREET - PROFILE

SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

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PRELIMINARY PLANS
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SOUTH STREET PLAN & PROFILE

BRISTOL EAST WATER REPLACEMENT PROJECT

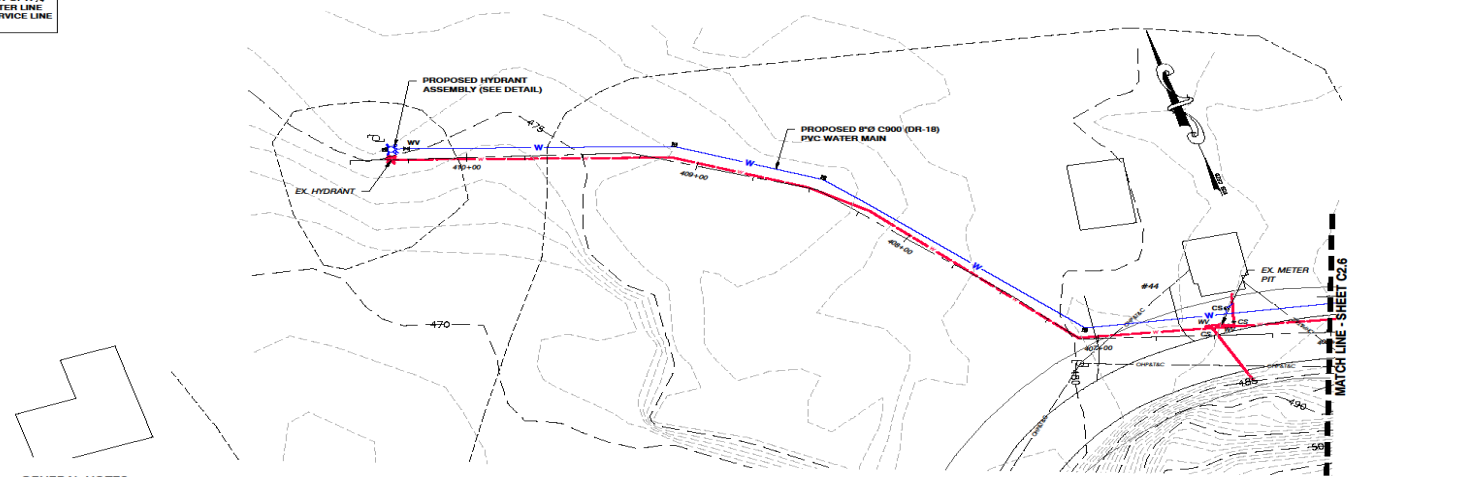
TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL, VT 05443

DESIGNED SP
DRAWN PM
CHECKED SP
PLOT DATE --
SCALE AS SHOWN
DATE --
PROJECT NO. --

DRAWING NO. C2.6

South Street

UNLESS NOTED OTHERWISE, ALL NEW WATER SERVICES SHALL CONSIST OF A ¾" CURB STOP AND ¾" TYPE 'K' WATER LINE CONNECTED TO THE EXISTING SERVICE LINE (SEE TYPICAL DETAILS)



SOUTH STREET - SITE PLAN

SCALE: 1" = ±30'

GRAPHIC SCALE

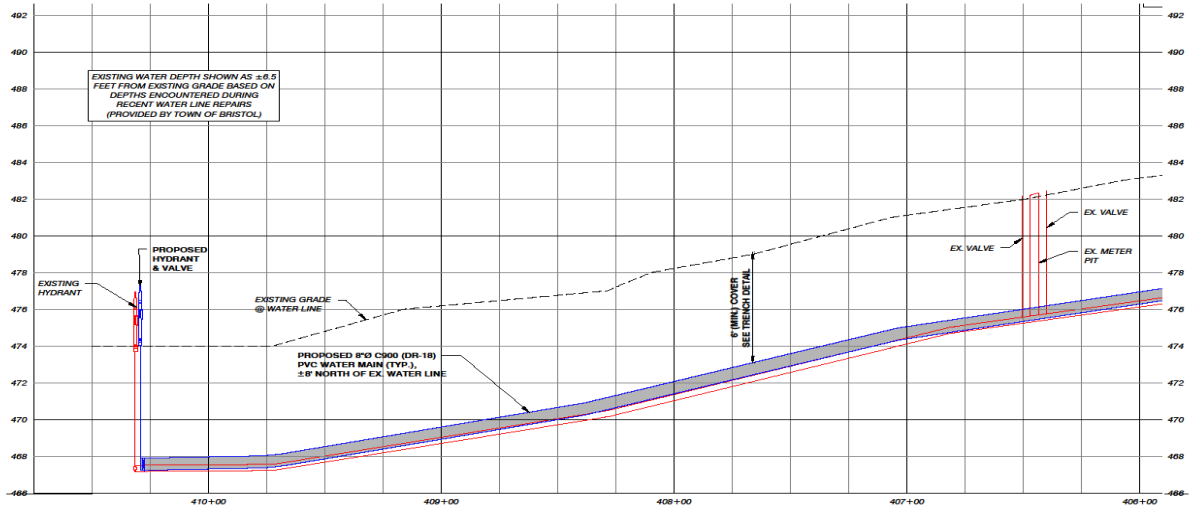
(IN FEET)
1 inch = 30 ft.

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LEGEND

- APPROXIMATE PROPERTY LINE
- EXISTING WATER LINE
- EXISTING WATER VALVE
- EXISTING CURB STOP
- EXISTING HYDRANT
- EXISTING UTILITY POLE
- EXISTING OVERHEAD UTILITIES
- EXISTING STORM LINE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING TREE
- PROPOSED WATER LINE
- PROPOSED WATER VALVE
- PROPOSED CURB STOP
- PROPOSED HYDRANT
- PROPOSED THRUST BLOCK
- PROPOSED STORM LINE
- PROPOSED CATCH BASIN



SOUTH STREET - PROFILE

SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

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REV.	DATE	DESCRIPTION	BY

PRELIMINARY PLANS
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PROGRESS PLANS
10/08/2026

SOUTH STREET
PLAN & PROFILE

BRISTOL EAST WATER REPLACEMENT PROJECT

TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL VT 05443

DESIGNED SP
DRAWN PM
CHECKED SP
PLOT DATE –
SCALE AS SHOWN
DATE –
PROJECT NO. ---

DRAWING NO.
C2.7

South Street



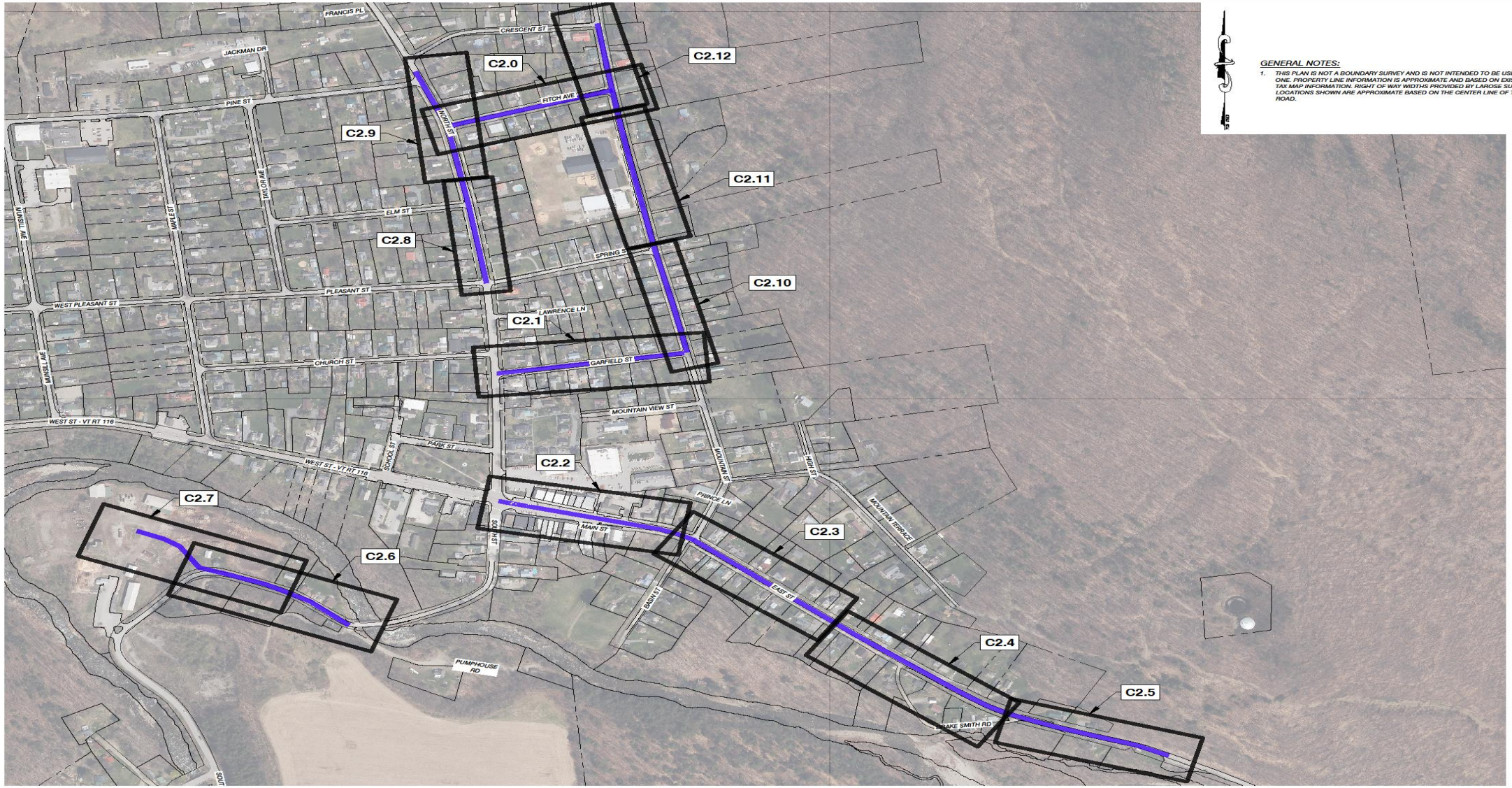
South Street



South Street



East Street (Mountain Street to the Lords Prayer Rock



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BRISTOL EAST WATER
REPLACEMENT - PLAN LAYOUT
SCALE: 1" = 200'

GRAPHIC SCALE
(IN FEET)
1 inch = 200 ft.

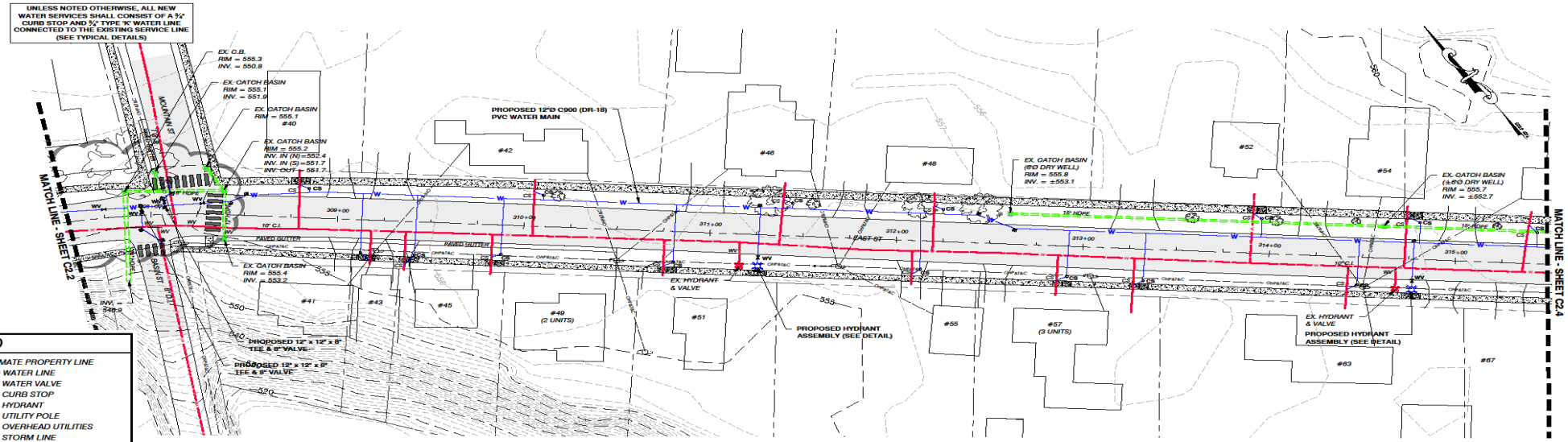
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PRELIMINARY PLANS
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BRISTOL EAST WATER REPLACEMENT
BRISTOL EAST WATER REPLACEMENT PROJECT
TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL, VT 05443

DESIGNED SP
DRAWN PM
CHECKED SP
PLOT DATE –
SCALE AS SHOWN
DATE –
PROJECT NO.
DRAWING NO. C1.0

East Street



LEGEND

- APPROXIMATE PROPERTY LINE
- EXISTING WATER LINE
- EXISTING WATER VALVE
- EXISTING CURB STOP
- EXISTING HYDRANT
- EXISTING UTILITY POLE
- EXISTING OVERHEAD UTILITIES
- EXISTING STORM LINE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING TREE
- PROPOSED WATER LINE
- PROPOSED WATER VALVE
- PROPOSED CURB STOP
- PROPOSED HYDRANT
- PROPOSED THRUST BLOCK
- PROPOSED STORM LINE
- PROPOSED CATCH BASIN

GENERAL NOTES:

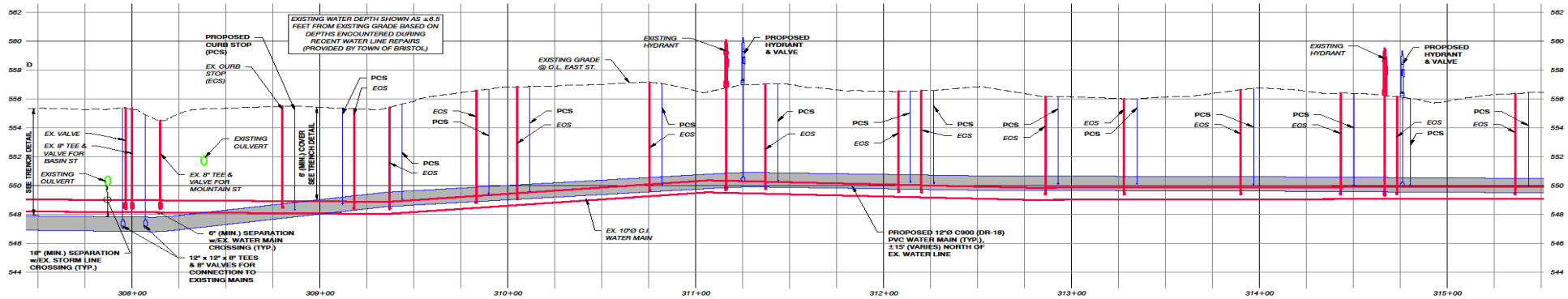
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EAST STREET - SITE PLAN

SCALE: 1" = ±30'

GRAPHIC SCALE

(IN FEET)
1 inch = 80 ft.



EAST STREET - PROFILE

SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

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PRELIMINARY PLANS
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PROGRESS PLANS
10/08/2026

EAST STREET
PLAN & PROFILE

BRISTOL EAST WATER REPLACEMENT PROJECT

TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL VT 05443

DESIGNED	PLOT DATE
SP	–
DRAWN	SCALE
PM	AS SHOWN
CHECKED	DATE
SP	–

PROJECT NO.

DRAWING NO.
C2.3

East Street

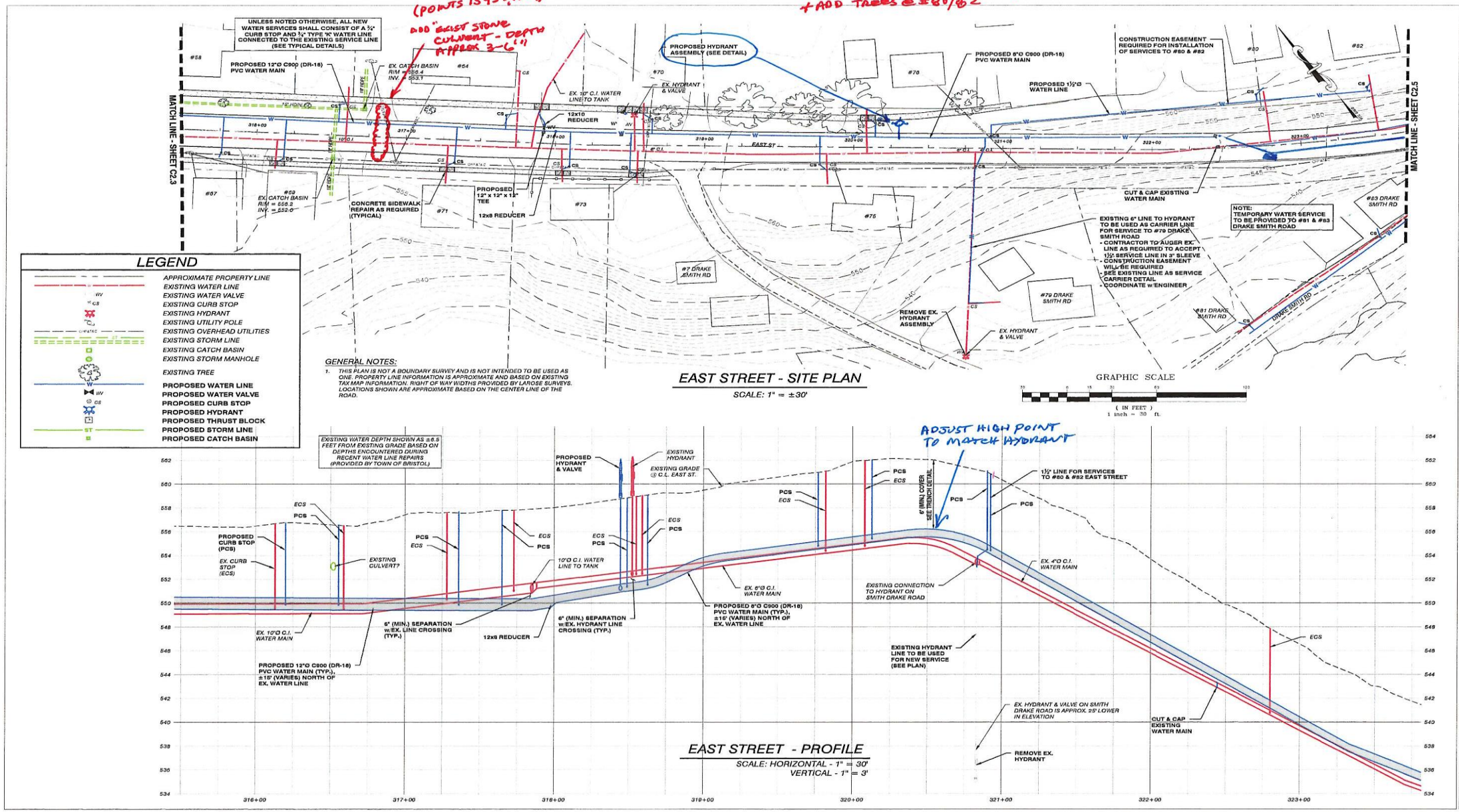


East Street @ Mountain Looking East

East Street



East Street


(POINTS 1593 & 1594)
ADD "EXIST STONE CULVERT - DEPTH APPROX 3-6'"
* NOTE ROW LINE SHIFT!
+ADD TREES @ #80/82
UNLESS NOTED OTHERWISE, ALL NEW WATER SERVICES SHALL CONSIST OF A ¾" CURB STOP AND ¾" TYPE 'K' WATER LINE CONNECTED TO THE EXISTING SERVICE LINE (SEE TYPICAL DETAILS)
PROPOSED 12"Ø C900 (DR-18) PVC WATER MAIN
EX. CATCH BASIN RIM = 556.4 INV. = 553.1
PROPOSED HYDRANT ASSEMBLY (SEE DETAIL)
EX. 10" C.I. WATER LINE TO TANK
12x10 REDUCER
EX. HYDRANT & VALVE
PROPOSED 8"Ø C900 (DR-18) PVC WATER MAIN
CONSTRUCTION EASEMENT REQUIRED FOR INSTALLATION OF SERVICES TO #80 & #82
PROPOSED 1½"Ø WATER LINE
EX. CATCH BASIN RIM = 555.3 INV. = 552.0
CONCRETE SIDEWALK REPAIR AS REQUIRED (TYPICAL)
PROPOSED 12" x 12" x 12" TEE
12x8 REDUCER
EAST ST
CUT & CAP EXISTING WATER MAIN
EXISTING 6" LINE TO HYDRANT TO BE USED AS CARRIER LINE FOR SERVICE TO #79 DRAKE SMITH ROAD
- CONTRACTOR TO AUGER EX. LINE AS REQUIRED TO ACCEPT 1½" SERVICE LINE IN 3" SLEEVE
- CONSTRUCTION EASEMENT WILL BE REQUIRED
- SEE EXISTING LINE AS SERVICE CARRIER DETAIL
- COORDINATE w/ENGINEER
NOTE: TEMPORARY WATER SERVICE TO BE PROVIDED TO #81 & #83 DRAKE SMITH ROAD
#7 DRAKE SMITH RD
#79 DRAKE SMITH RD
#81 DRAKE SMITH RD
#83 DRAKE SMITH RD
REMOVE EX. HYDRANT ASSEMBLY
EX. HYDRANT & VALVE
MATCH LINE - SHEET C2.3
MATCH LINE - SHEET C2.5
LEGEND
APPROXIMATE PROPERTY LINE
EXISTING WATER LINE
EXISTING WATER VALVE
EXISTING CURB STOP
EXISTING HYDRANT
EXISTING UTILITY POLE
EXISTING OVERHEAD UTILITIES
EXISTING STORM LINE
EXISTING CATCH BASIN
EXISTING STORM MANHOLE
EXISTING TREE
PROPOSED WATER LINE
PROPOSED WATER VALVE
PROPOSED CURB STOP
PROPOSED HYDRANT
PROPOSED THRUST BLOCK
PROPOSED STORM LINE
PROPOSED CATCH BASIN
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EAST STREET - SITE PLAN
SCALE: 1" = ±30'
GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.
EXISTING WATER DEPTH SHOWN AS ±6.5 FEET FROM EXISTING GRADE BASED ON DEPTHS ENCOUNTERED DURING RECENT WATER LINE REPAIRS (PROVIDED BY TOWN OF BRISTOL)
ADJUST HIGH POINT TO MATCH HYDRANT
PROPOSED HYDRANT & VALVE
EXISTING HYDRANT
EXISTING GRADE @ C.L. EAST ST.
1½" LINE FOR SERVICES TO #80 & #82 EAST STREET
6' (MIN.) COVER SEE TRENCH DETAIL
PROPOSED CURB STOP (PCS)
EX. CURB STOP (ECS)
EXISTING CULVERT?
10"Ø C.I. WATER LINE TO TANK
EX. 6"Ø C.I. WATER MAIN
EX. 4"Ø C.I. WATER MAIN
EXISTING CONNECTION TO HYDRANT ON SMITH DRAKE ROAD
EX. 10"Ø C.I. WATER MAIN
6" (MIN.) SEPARATION w/EX. LINE CROSSING (TYP.)
6" (MIN.) SEPARATION w/EX. HYDRANT LINE CROSSING (TYP.)
12x8 REDUCER
PROPOSED 8"Ø C900 (DR-18) PVC WATER MAIN (TYP.), ±16' (VARIES) NORTH OF EX. WATER LINE
PROPOSED 12"Ø C900 (DR-18) PVC WATER MAIN (TYP.), ±15' (VARIES) NORTH OF EX. WATER LINE
EXISTING HYDRANT LINE TO BE USED FOR NEW SERVICE (SEE PLAN)
EX. HYDRANT & VALVE ON SMITH DRAKE ROAD IS APPROX. 25' LOWER IN ELEVATION
CUT & CAP EXISTING WATER MAIN
REMOVE EX. HYDRANT
EAST STREET - PROFILE
SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'
316+00
317+00
318+00
319+00
320+00
321+00
322+00
323+00
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PRELIMINARY PLANS
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PROGRESS PLANS 10/08/2026
EAST STREET PLAN & PROFILE
BRISTOL EAST WATER REPLACEMENT PROJECT
TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL VT 05443
DESIGNED SP
DRAWN PM
CHECKED SP
SCALE AS SHOWN
PROJECT NO.
DRAWING NO. C2.4

East Street



East Street



East Street



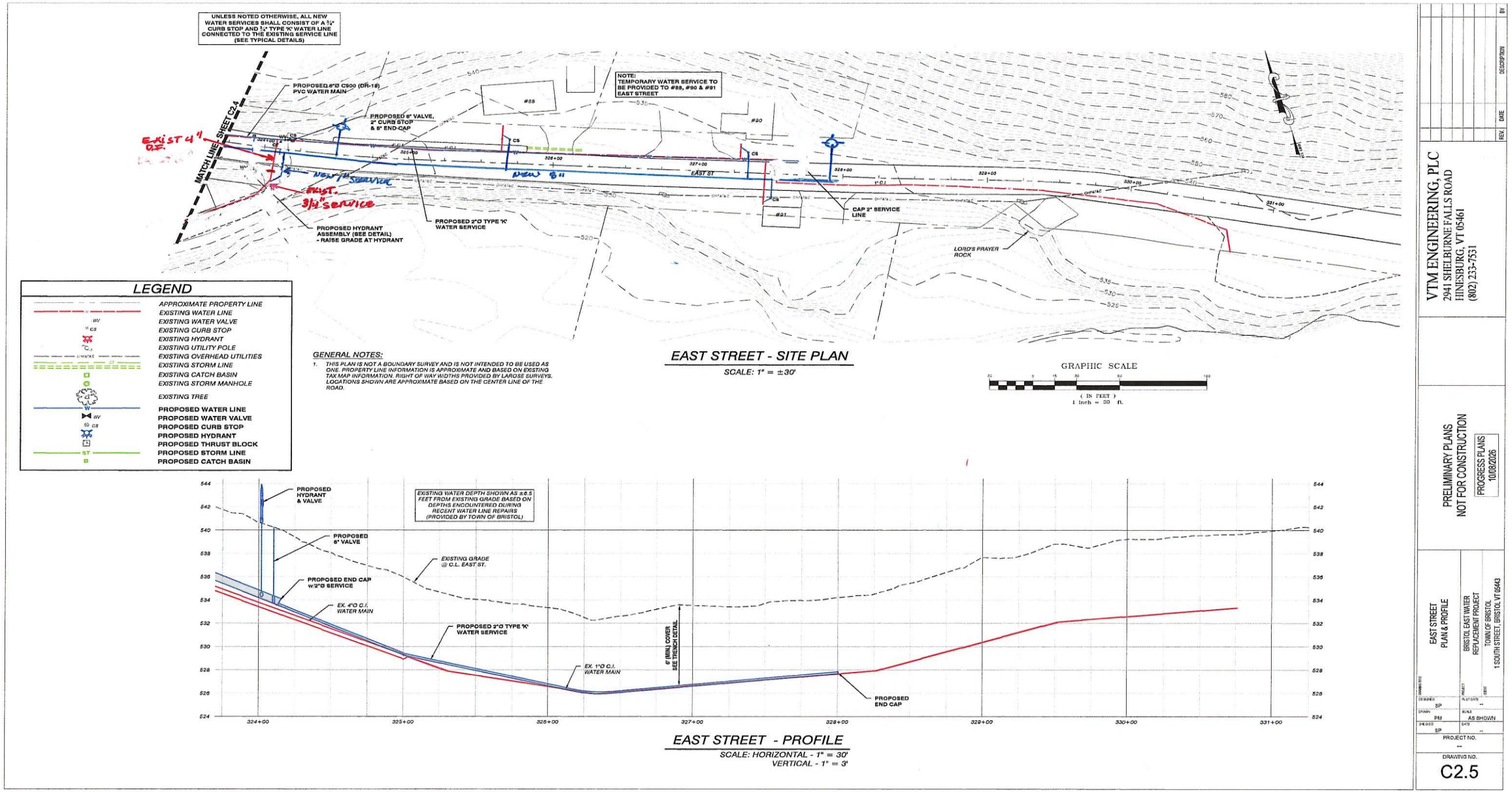
East Street



Drake Smith Hydrant



East Street


UNLESS NOTED OTHERWISE, ALL NEW WATER SERVICES SHALL CONSIST OF A ¾" CURB STOP AND ¾" TYPE 'K' WATER LINE CONNECTED TO THE EXISTING SERVICE LINE (SEE TYPICAL DETAILS)
PROPOSED 6"Ø C900 (DR-18) PVC WATER MAIN
PROPOSED 6" VALVE, 2" CURB STOP & 6" END CAP
MATCH LINE - SHEET C2.4
EXIST 4"
NOTE: TEMPORARY WATER SERVICE TO BE PROVIDED TO #88, #90 & #91 EAST STREET
#88
#90
#91
EAST ST
PROPOSED HYDRANT ASSEMBLY (SEE DETAIL) - RAISE GRADE AT HYDRANT
PROPOSED 2"Ø TYPE 'K' WATER SERVICE
CAP 2" SERVICE LINE
LORD'S PRAYER ROCK
GENERAL NOTES:
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EAST STREET - SITE PLAN
SCALE: 1" = ±30'
GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.
LEGEND
APPROXIMATE PROPERTY LINE
EXISTING WATER LINE
EXISTING WATER VALVE
EXISTING CURB STOP
EXISTING HYDRANT
EXISTING UTILITY POLE
EXISTING OVERHEAD UTILITIES
EXISTING STORM LINE
EXISTING CATCH BASIN
EXISTING STORM MANHOLE
EXISTING TREE
PROPOSED WATER LINE
PROPOSED WATER VALVE
PROPOSED CURB STOP
PROPOSED HYDRANT
PROPOSED THRUST BLOCK
PROPOSED STORM LINE
PROPOSED CATCH BASIN
PROPOSED HYDRANT & VALVE
EXISTING WATER DEPTH SHOWN AS ±6.5 FEET FROM EXISTING GRADE BASED ON DEPTHS ENCOUNTERED DURING RECENT WATER LINE REPAIRS (PROVIDED BY TOWN OF BRISTOL)
PROPOSED 6" VALVE
EXISTING GRADE @ C.L. EAST ST.
PROPOSED END CAP w/2"Ø SERVICE
EX. 4"Ø C.I. WATER MAIN
PROPOSED 2"Ø TYPE 'K' WATER SERVICE
6' (MIN.) COVER SEE TRENCH DETAIL
EX. 1"Ø C.I. WATER MAIN
PROPOSED END CAP
324+00
325+00
326+00
327+00
328+00
329+00
330+00
331+00
EAST STREET - PROFILE
SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'
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EAST STREET
PLAN & PROFILE
BRISTOL EAST WATER
REPLACEMENT PROJECT
TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL VT 05443
DESIGNED SP
DRAWN PM
CHECKED SP
SCALE AS SHOWN
PROJECT NO.
DRAWING NO.
C2.5

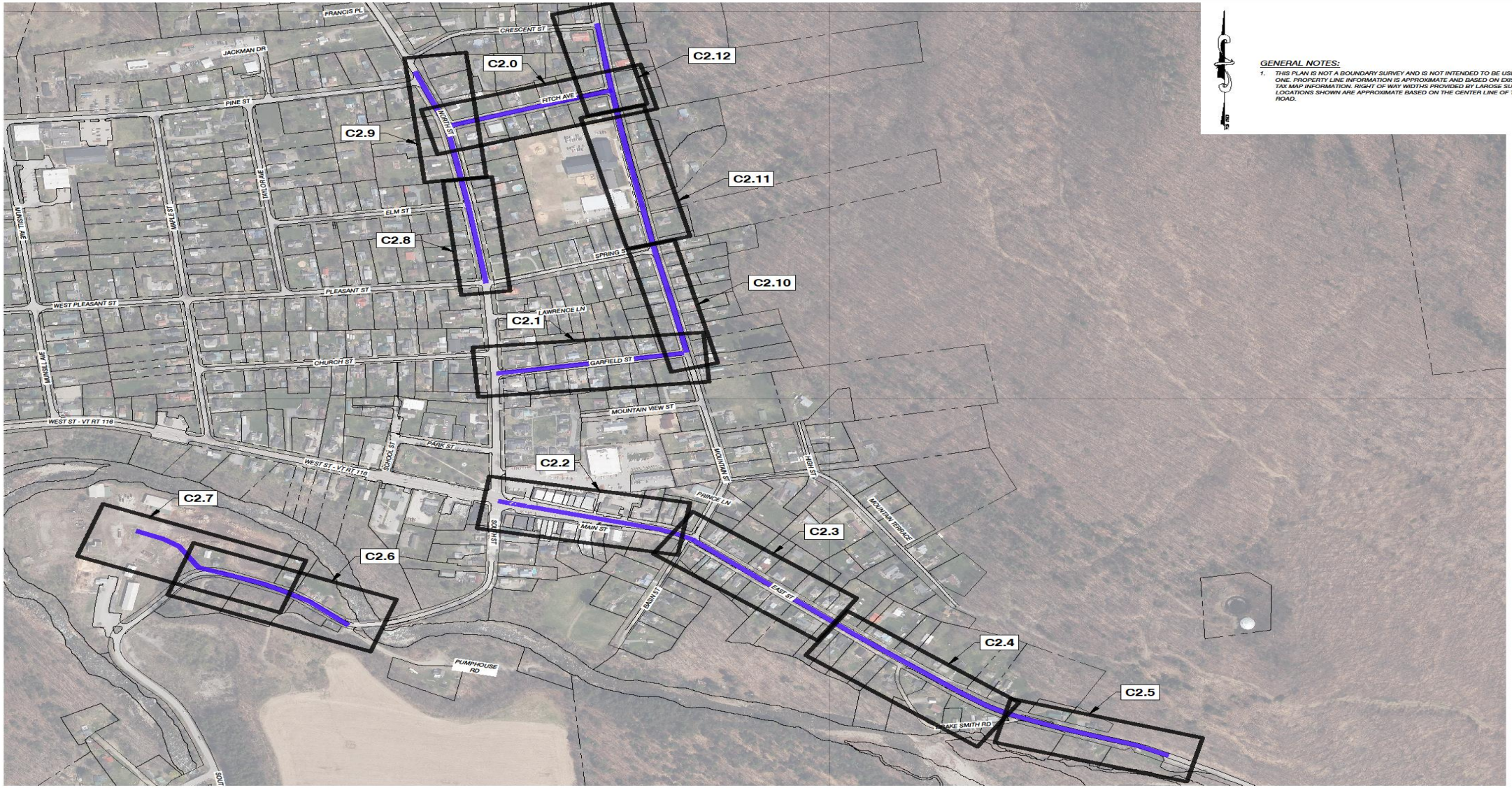
East Street



East Street



Main Street (North to Mountain)



GENERAL NOTES:

1. THIS PLAN IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO BE USED AS ONE. PROPERTY LINE INFORMATION IS APPROXIMATE AND BASED ON EXISTING TAX MAP INFORMATION. RIGHT OF WAY WIDTHS PROVIDED BY LAROSE SURVEYS. LOCATIONS SHOWN ARE APPROXIMATE BASED ON THE CENTER LINE OF THE ROAD.

BRISTOL EAST WATER
REPLACEMENT - PLAN LAYOUT
SCALE: 1" = 200'

GRAPHIC SCALE
(IN FEET)
1 inch = 200 ft.

BY	DESCRIPTION	DATE	REV

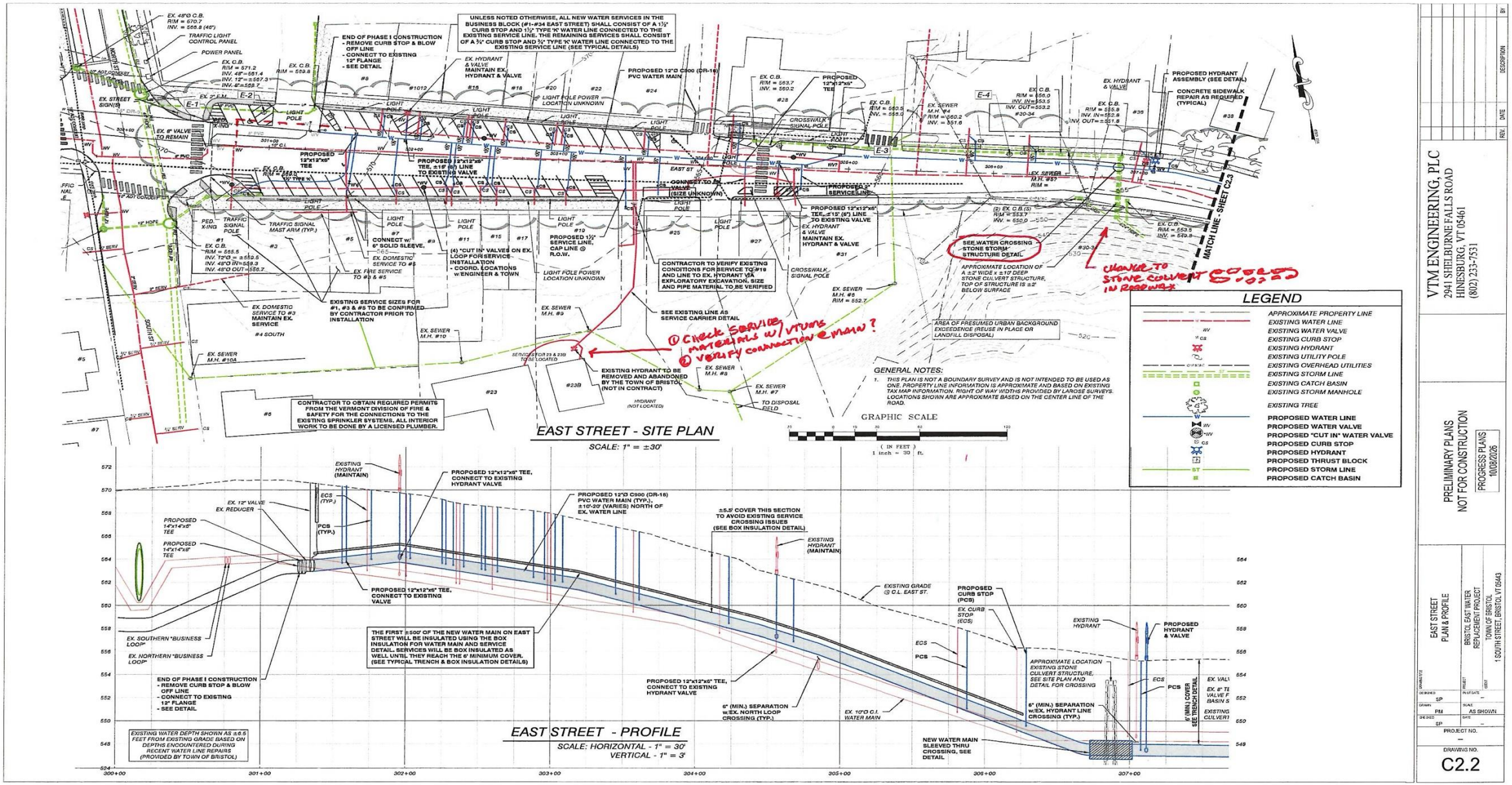
VTM ENGINEERING, PLC
2941 SHELBURNE FALLS ROAD
HINESBURG, VT 05461
(802) 233-7531

PRELIMINARY PLANS
NOT FOR CONSTRUCTION
PROGRESS PLANS 10/08/2026

BRISTOL EAST WATER REPLACEMENT

DRAWN BY	
PROJECT	BRISTOL EAST WATER REPLACEMENT PROJECT
CLIENT	TOWN OF BRISTOL 1 SOUTH STREET, BRISTOL, VT 05443
DESIGNED	SP
PLOT DATE	–
DRAWN	PM
SCALE	AS SHOWN
CHECKED	SP
DATE	–
PROJECT NO.	
DRAWING NO.	C1.0

Main Street



VTM ENGINEERING, PLC
2941 SHELBURNE FALLS ROAD
HINESBURG, VT 05461
(802) 233-7531

PRELIMINARY PLANS
NOT FOR CONSTRUCTION
PROGRESS PLANS
10/08/2026

EAST STREET
PLAN & PROFILE

BRISTOL EAST WATER
REPLACEMENT PROJECT
TOWN OF BRISTOL
1 SOUTH STREET, BRISTOL VT 05443

DESIGNED SP
DRAWN PM
CHECKED SP
SCALE AS SHOWN

PROJECT NO.

DRAWING NO.
C2.2

Main Street



Main Street Looking East

Main Street



Main Street



Main Street



Main St. Looking East Toward Mountain

Main Street


DEER LEAP BUILDING
25
2 HR PARKING
8:00 AM TO 6:00 PM
EXCEPT SUNDAY
OFF THE RE
OPEN
main street
STATIONER
FIELD NOTES
Alley Between #19 & #21
Main

Main Street



Questions?





Bristol West – Construction Update
October 12, 2026

