



Vermont Better Roads Grant Program



Cover Sheet

Please complete this page ONCE and return with your Grant Category Application(s)

Town/Organization: **Town of Hartford**

Primary Contact Person (Responsible for Signing Grant Agreement): **Bryan Gazda**

Title: **Director of Public Works**

Address: **173 Airport Road, White River Junction, VT 05001**

Street Address

Town

Zip

Primary Contact Person Email: BGazda@Hartford-VT.org Phone: **(802) 296-3633 Ext. 104**

SAM unique ID #: **SZNMKKN8CHS4** Fiscal Year End Month (MM): **06 (June)**

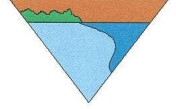
Town Clerk / Admin email: **Lisa O'Neal / LOneal@Hartford-VT.org**

Road Foreman Name: **Christopher (Chip) Haley**

Road Foreman Email: Chaley@Hartford-VT.org

Project Manager Name: **Christopher Holzwarth**

Project Manager Email: CHolzwarth@Hartford-VT.org



CATEGORY B/C/D

Please complete one application per project you are applying for.

Please check the Category you are applying for:

- B. Correction of a Road Related Erosion Problem and/or Stormwater Mitigation
- C. Correction of a Stream Bank, Lake Shore or Slope Related Problem
- D. Structure/culvert 36" diameter or greater

Municipality: **Town of Hartford**

Road Name: **Jericho Street** TH #: **18** Structure # (if applicable): **N/A**

Road Type: **Paved** or Unpaved (select one) Road Class: 1 2 3 4 (select one)

Please provide a thorough description of the erosion/water quality problem: **Jericho Street (TH18) is a paved road with an average slope of 5 to 10% within the proposed work zone between stations 15+00 and 30+00. Within this area a combination of steep slopes, high water table, ledge, poorly constructed ditches, and undersized culverts have contributed to poor road conditions and short life spans for pavement. This has led to an inability to maintain the road through winter and early spring without the use of excessive amounts of salt and sand to maintain safe driving conditions.**

Has the town completed an MRGP compliant road erosion inventory?

- Yes No In progress

Project Length (linear feet along roadway): **1,500 LF (Portion of overall paving project T.B.D.)**

Number of structures/culverts replaced/repared: **Four (4)**

Average slope of roadway: 0-5% 5-10% >10%

Provide a VERY detailed map of project location showing start and end points: Included

Provide a sketch of project location showing distances and project details: Included

Please provide the Road Segment ID (RSID) for your project. If several, please list all. In addition to the RSID please indicate what the resulting rating of each segment before construction as well as after construction in accordance with



Vermont Better Roads Grant Program



Existing Structures:	
<input checked="" type="checkbox"/> Steel/Plastic Culvert	<input type="checkbox"/> Concrete Box Culvert
<input type="checkbox"/> Stone Culvert – Take pictures	<input type="checkbox"/> Concrete Bridge
<input type="checkbox"/> Ditch	<input type="checkbox"/> Rolled Beam/Plate Girder Bridge
<input type="checkbox"/> Foundation remains, mill ruins, stone walls, other – Take pictures	<input type="checkbox"/> Stone abutments or piers – Take pictures
<input type="checkbox"/> Buildings within 300 feet of work - Take pictures	
Project Description:	
<input type="checkbox"/> New ditches will be established	<input checked="" type="checkbox"/> All work will be completed from the existing road or shoulder
<input checked="" type="checkbox"/> Reestablishing existing ditches only	<input checked="" type="checkbox"/> There will be excavation within 300 feet or a river or stream – Take pictures
<input checked="" type="checkbox"/> The structure is being replaced on existing location/alignment	<input type="checkbox"/> Road reclaiming, reconstruction, or widening
<input type="checkbox"/> Excavation within a floodplain – Take pictures	<input type="checkbox"/> Temporary off-road access is required
<input checked="" type="checkbox"/> Tree cutting/clearing – Take pictures	<input type="checkbox"/> The roadway will be realigned

Please

describe the project and how it will create a positive water quality benefit:

The project will reshape, deepen and line 1,307' of earth and grass ditch along a slope of between 6 and 10% with 6-8" minus stone, install 109' of grass lined ditches where the slope of roadway is less than 5% and nearly flat, install 950' of 4" underdrain on uphill side of road where groundwater is daylighting and damaging roadway, remove shoulder berms and resurface with shoulder stone along 2,676' of roadway, replace 120' of failing 15" Diameter or less culverts with 18" smooth bore HDPE culverts with stone headwalls at inlets and outlets, provide stone lined transitions where channel flow or pipe flow is to be converted to sheet flow over grassed surfaces, and install permanent stone check dams to provide a sediment trap where channel flow from micro drainage areas are being released towards a nearby stream.

Please list any professionals or partners that assisted with planning this project: **None**

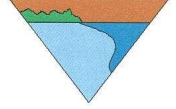
Is the project located in the town "Right of Way"? (select one) Yes No Both

Please be aware, Municipalities are required to have an Agreement for Entry & Liability Release for any impacted properties (prior to the start of construction.)

Budget:

Please attach a project budget and confirm below that is attached:

Project budget IS attached



Vermont Better Roads Grant Program



Are you applying to other grant programs to help fund this project? If so, what programs? Please note that Better Roads requires a 20% local match and Better Roads funding may not be used as match for other state or federally funded programs.

Requested Grant Amount:	\$	20,000.00
+		
Local Match:	\$	51,472.96
=		
Total Project Cost:	\$	71,472.96

Requested Grant Amount Max:

\$20,000 Category B

\$40,000 Category C

\$60,000 Category D

See page 6 for more information on calculating match

Estimated Completion Date: **September 30, 2024**

REQUIRED ATTACHMENTS:

Please use the documentation checklist below to ensure that all of the relevant items regarding your application have been included. **It is preferred that your application is a single PDF file.**

- Grant application cover sheet
- Grant application form, including chart with RSID and MRGP compliance before and after project completion
- Itemized Cost estimate for labor, equipment, and materials (see enclosed Cost Estimate Worksheet). If applicable, please break down funding by source (i.e. different grant sources).
- Detailed Project Location Map
- Sketch of proposed project and erosion control measures or other management practices, including distances in Feet .
 - X Also show approximate location of town/other right-of-way and/or property lines and limits of work
- Photos must be color and clear to see.**
 - o **Please make sure there are enough photos to get a good idea of the project area**
- Other appropriate supporting documents.

By signing this application, I certify that all the information provided is accurate to the best of my knowledge. We will comply with all the requirements of the grant including making our books available for audit if required.

SIGNATURE OF APPLICANT:

12.20.2023

Name: John Haverstock

Title: Town Manager



Vermont Better Roads Grant Program



Vermont Better Roads Category B/C/D Grant Proposal Scoring Criteria

All applications will be scored on a sliding scale elected by the Better Roads Grant Selection Committee. Road BMP upgrades are considered the highest priority for grant funding when road segments are “hydrologically-connected,” currently “not meeting” MRGP standards, and road slopes are greater than 10%

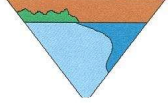
- 1. Is the project using Best Management Practices (BMPs) that are proven and likely to maximize long term success, such as practices contained within the new VTrans Better Roads Manual and/or VT DEC MRGP Standards?? [maximum 20 points]**
 - The proposed project utilizes appropriate BMPs and has maximized the likelihood of long-term success (16-20 points)
 - The proposed project utilizes some appropriate BMPs but more could be done to increase the likelihood of success (11-15 points)
 - The proposed project does not utilize appropriate BMPs, or it is unclear whether the BMPs will be used appropriately and the likelihood of success is uncertain (0-10 points)

- 2. What are the expected Water Quality Benefits within the watershed? [maximum 25 points]**
 - Project will lead to significant improvements to water quality (21-25 points)
 - Project will lead to moderate improvements to water quality (16-20 points)
 - Project will lead to small improvements to water quality (1-15 points)
 - Project will lead to no obvious improvements to water quality (0 points)

- 3. Is the project in or does stormwater runoff from the project area drain into a hydrologically connected segment? [maximum 20 points]**
 - Yes; the entire project is in connected segment(s) (20 points)
 - Partially; part(s) of the project are in connected segments (5-19 points)
 - No; this project is not in a connected segment (0-5 points)

- 4. Will the project result in full compliance of one or more segments in accordance with the Municipal Roads General Permit (MRGP)? [maximum 25 points]**
 - All segments within the project will be in full compliance (25 points)
 - One or more segments will be in full compliance, with all other segments in partial compliance (11 – 24 points)
 - One or more segments will be a minimum of partial compliance (1- 10 points)
 - Project does not meet compliance or not applicable (does not have hydrologically connected segments) (0 points)

- 5. Is the project cost effective? [maximum 10 points]**
 - The cost of the project is low and the expected benefits are high (8-10 points)
 - The cost of the project is average and the expected benefits are average (5-7 points)
 - The cost of the project is high and the expected benefits are low (0-4 points)



Cost Estimate Worksheet

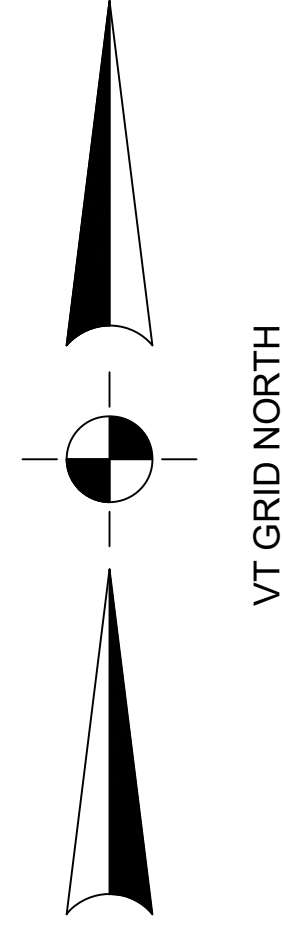
Town and Road Name:

Project Name:

Labor	Rate	# Hours	Total (Rate x Hours)
CHRISTOPHER "CHIP" HALEY (FOREMAN)	\$ 39.06	128	\$ 4,999.68
MIKE KOLOSEI (OPERATOR)	\$ 24.84	128	\$ 3,179.22
DAVID FOLLENSBEE (DRIVER/LABOR)	\$ 25.78	128	\$ 3,299.84
TRAVIS BEEBE (DRIVER/LABOR)	\$ 23.73	128	\$ 3,074.44
WESLEY SHIPLEY (DRIVER/LABOR)	\$ 29.10	128	\$ 3,724.80
JEAN JESSIER (DRIVER/LABOR)	\$ 39.85	128	\$ 5,100.80
Labor Total			\$ 23,341.28
Equipment	Rate	# Hours	Total (Rate x Hours)
PICKUP #6	\$ 20.96	128	\$ 2,682.96
DUMP TRUCK #4	\$ 78.59	120	\$ 9,430.80
DUMP TRUCK #7	\$ 52.93	128	\$ 6,775.04
EXCAVATOR (MINI)	\$ 20.96	8	\$ 167.68
EXCAVATOR (311)	\$ 57.76	120	\$ 6,931.20
Equipment Total			\$ 25,937.68
Materials	Rate	Amount	Total (Rate x Amount)
UNDERDRAIN (PIPE/STONE/FABRIC)	\$ 9.00 / LF	950	\$ 8,550.00
UNDERDRAIN RISERS (PIPE/FITTINGS)	\$ 85.00 / EACH	4	\$ 340.00
18" HDPE	\$ 28.00 / LFT	120	\$ 3,360.00
EROSION STONE (DITCHES, ETC)	\$ 18.00 / TN	331	\$ 5,958.00
SHOULDER STONE	\$ 14.00 / TN	149	\$ 2,056.00
TOPSOIL	\$ 100.00 / TN	10	\$ 1,000.00
HYDROSEED (MATERIALS)	\$ 450 / TANK	2	\$ 900.00
Materials Total			\$ 22,194.00
Miscellaneous	Rate	Amount	Total (Rate x Hours)
RECYCLED GRANITE HEADWALLS	\$ 0 / FACE FT	400	\$ 0.00
Miscellaneous Total			\$ 0.00

Grand Total \$ 71,472.96

Match \$ 51,472.96

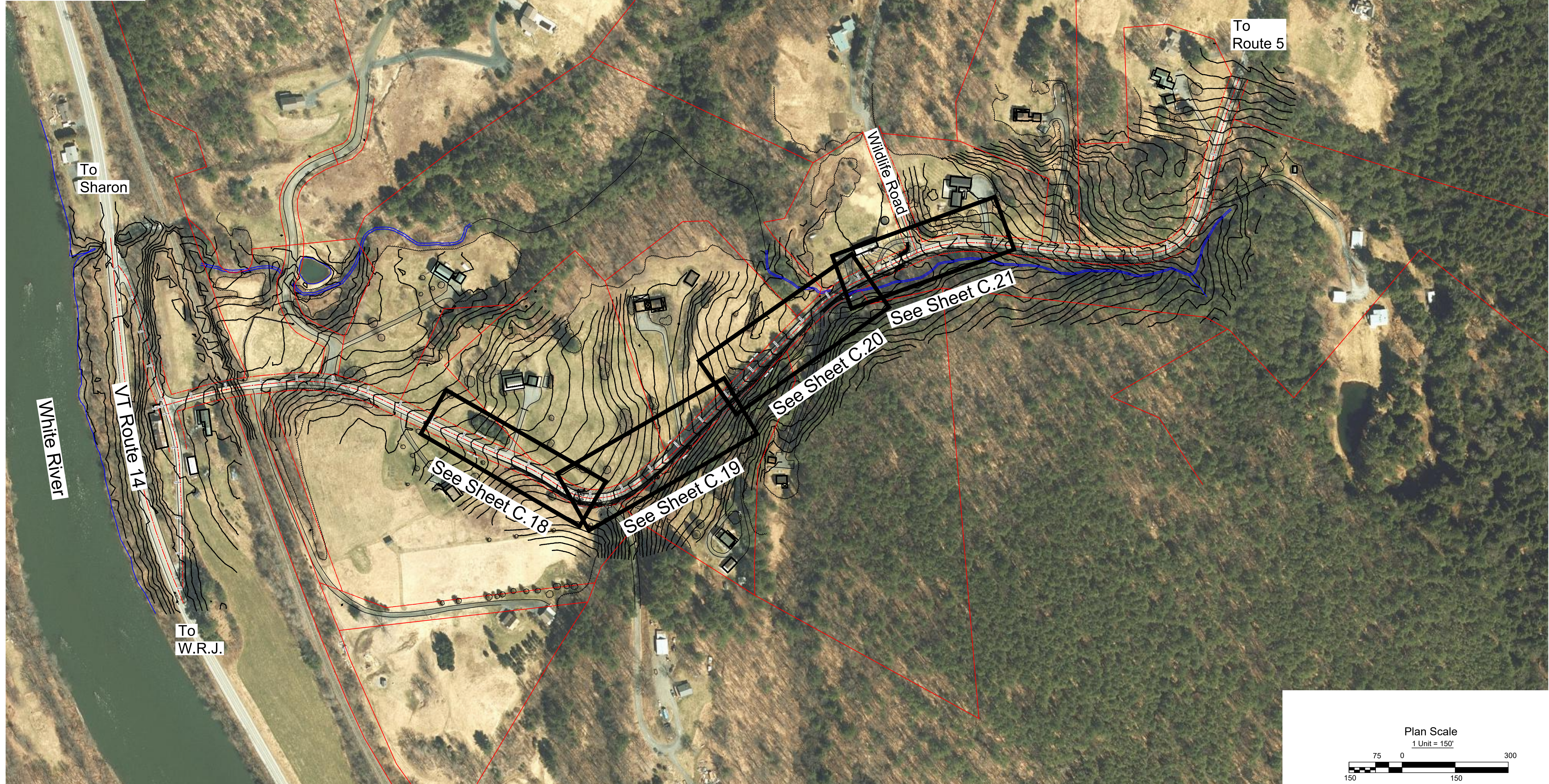


VT GRID NORTH

Jericho Street - TH 18 Work Zone 15+00 - 30+00

Draft Print

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12/20/2023



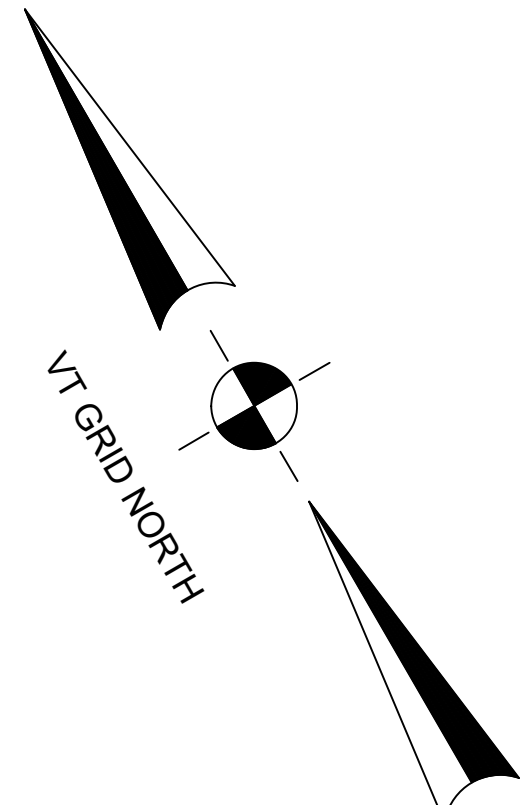
REV.	DESCRIPTION	DATE

Better Roads Grant - FY25 Location Map

Jericho Street - TH 18
Town of Hartford Vermont

DRAWN BY:	C.D.H.
CHECKED BY:	
DATE:	12/19/2023
PROJ. NO.:	2024-H1_J

L.1
SHEET NUMBER

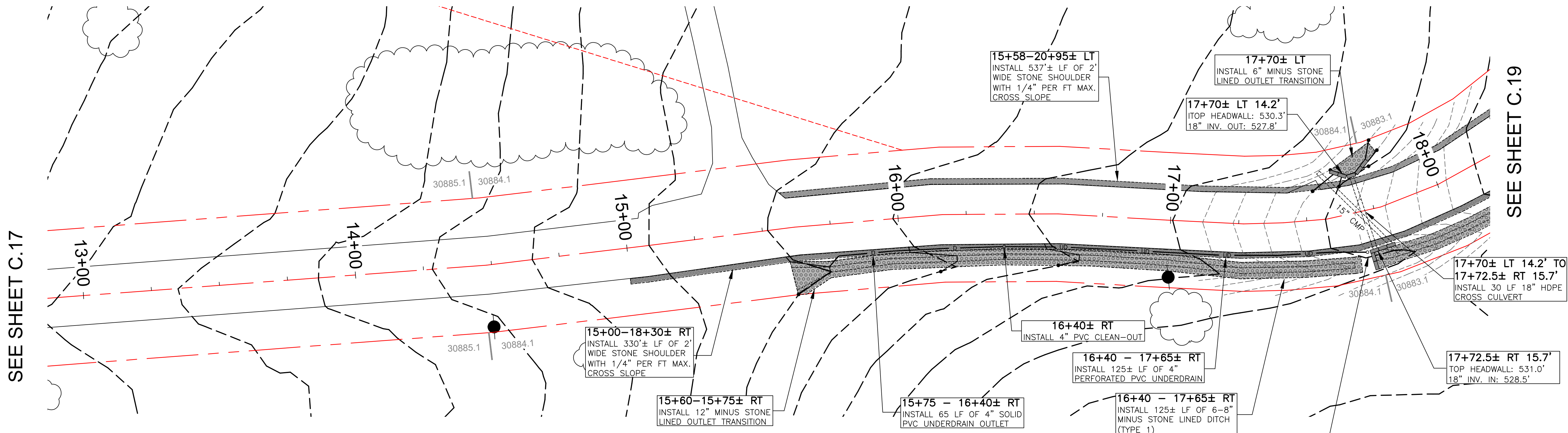
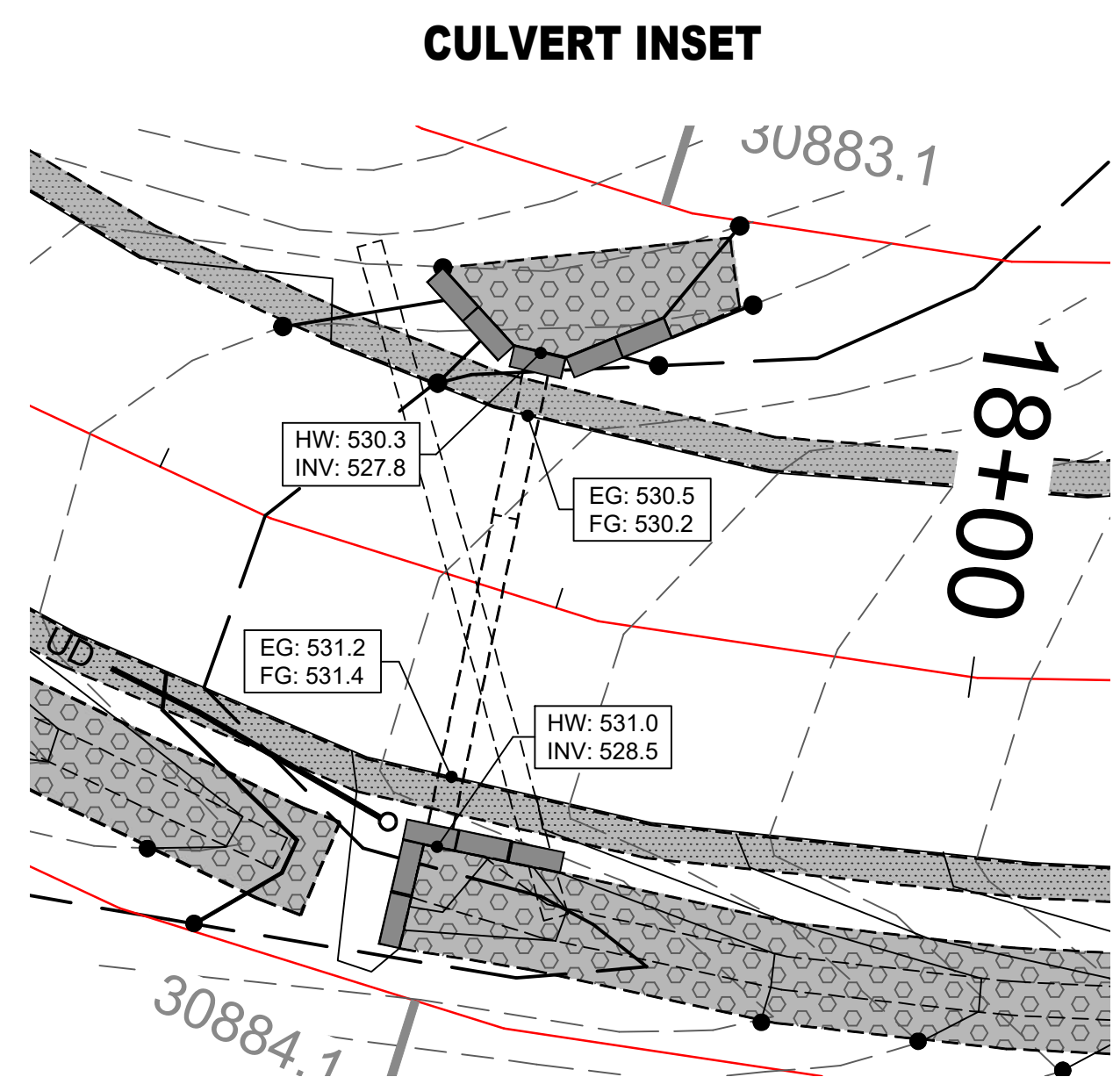


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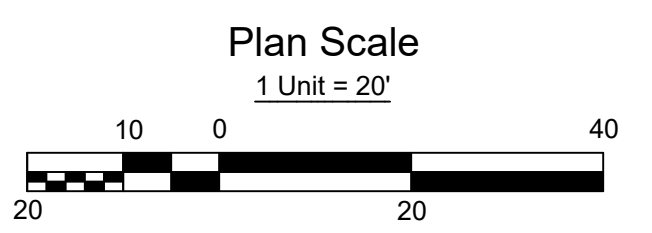
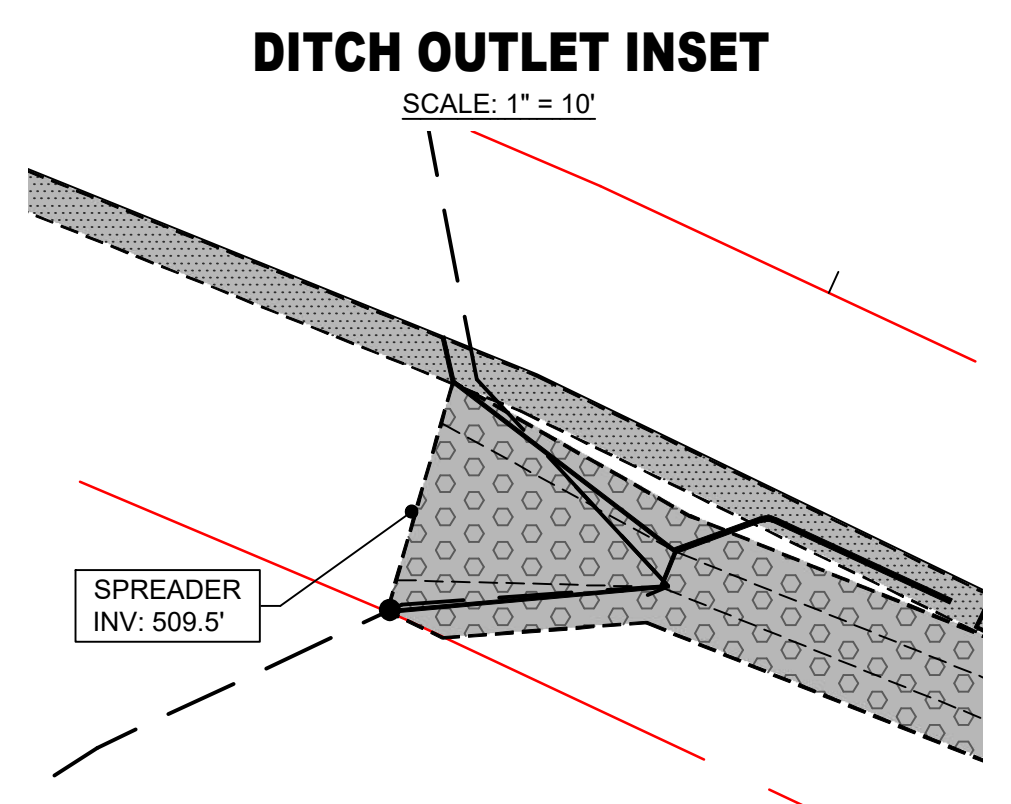
REV.	DESCRIPTION

Jericho Street - TH 18
13+00 - 18+00



SEE SHEET C.17

SEE SHEET C.19



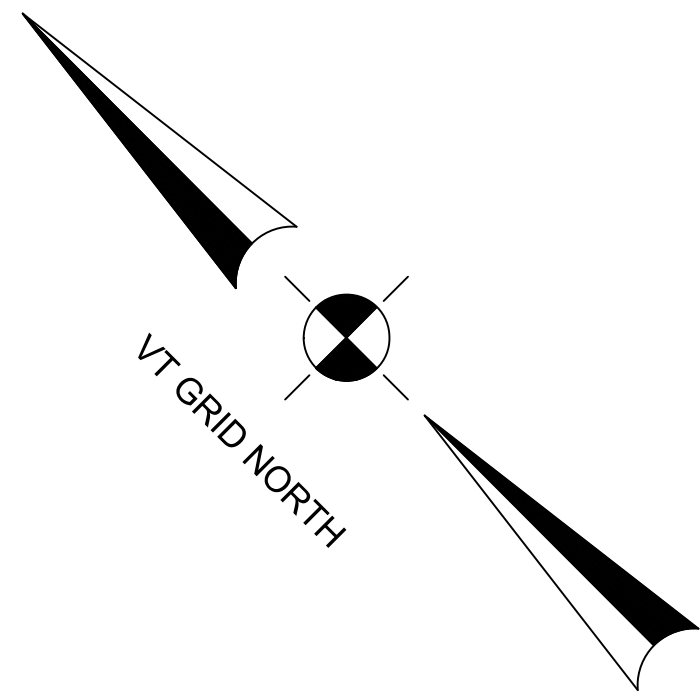
FY25 Improvements

13+00 - 18+00 Jericho Street - TH 18
Town of Hartford Vermont

DRAWN BY:	C.D.H.
CHECKED BY:	
DATE:	12/19/2023
PROJ. NO.:	2024-H1_1

C.18

SHEET NUMBER



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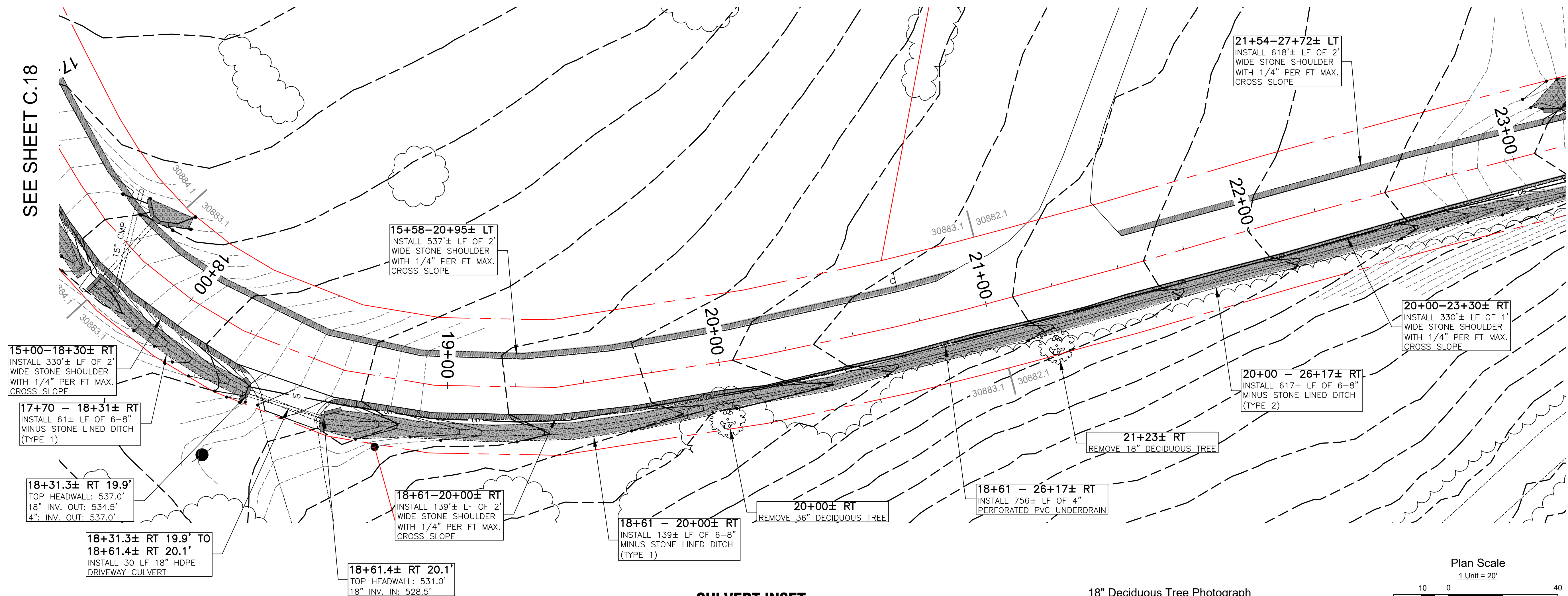
12/20/2023



**Jericho Street - TH 18
18+00 - 23+00**

SEE SHEET C.18

SEE SHEET C.20



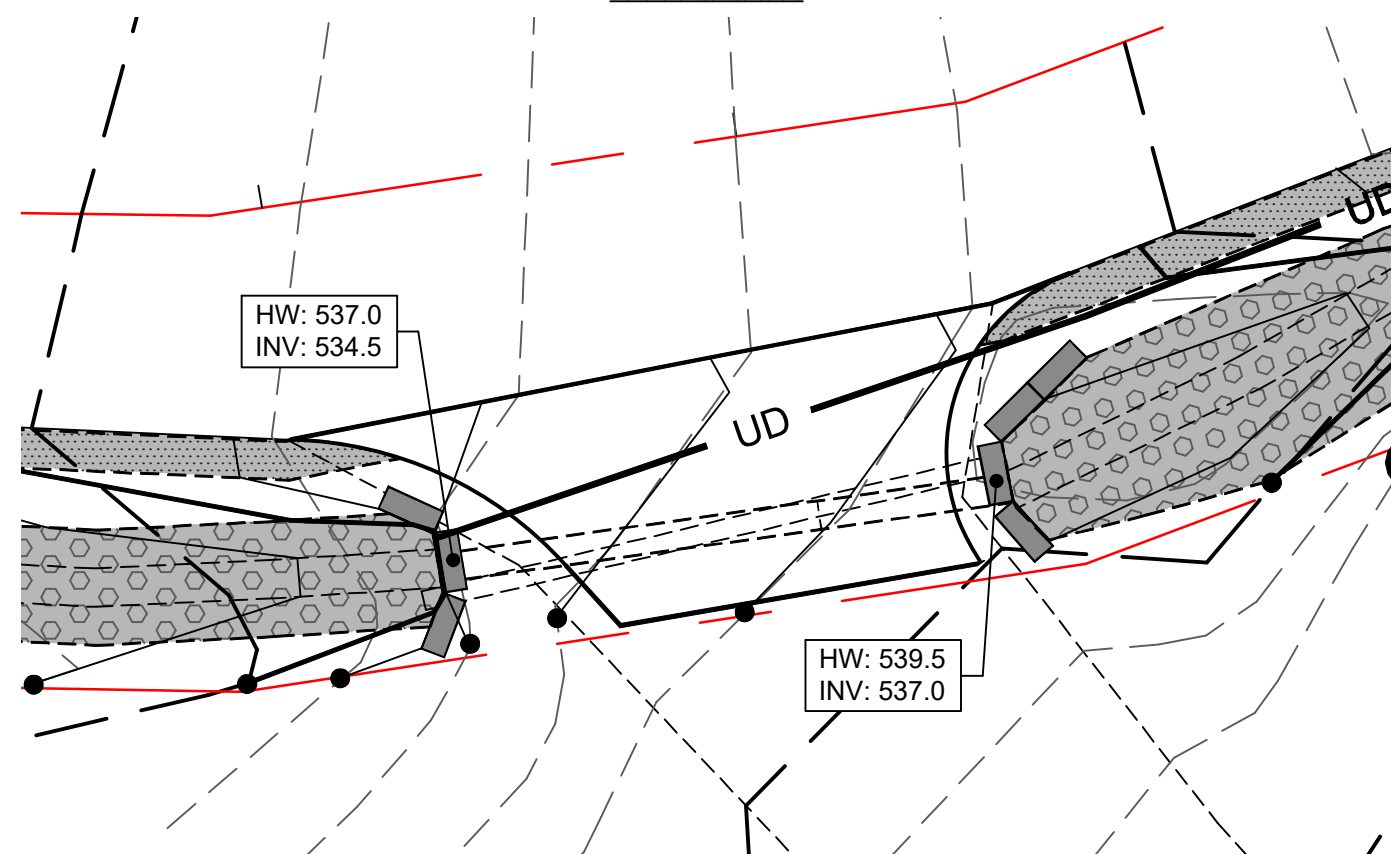
36" Deciduous Tree Photograph



20+00± RT
REMOVE 36" DECIDUOUS TREE

CULVERT INSET

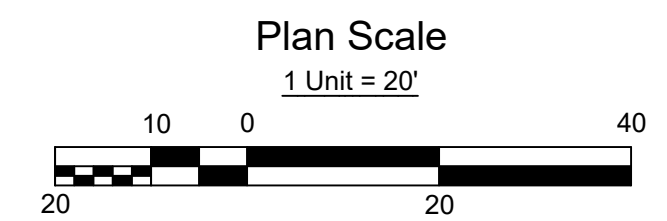
SCALE: 1" = 10'



18" Deciduous Tree Photograph



21+23± RT
REMOVE 18" DECIDUOUS TREE



REV.	DESCRIPTION	DATE

FY25 Improvements

18+00 - 23+00 Jericho Street - TH 18
Town of Hartford Vermont

DRAWN BY:	C.D.H.
CHECKED BY:	
DATE:	12/19/2023
PROJ. NO.:	2024-H1 I

C.19
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Jericho Street - TH 18 28+00 - 32+00

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RELEASED FOR REVIEW
12/20/2023



REV.	DESCRIPTION	DATE

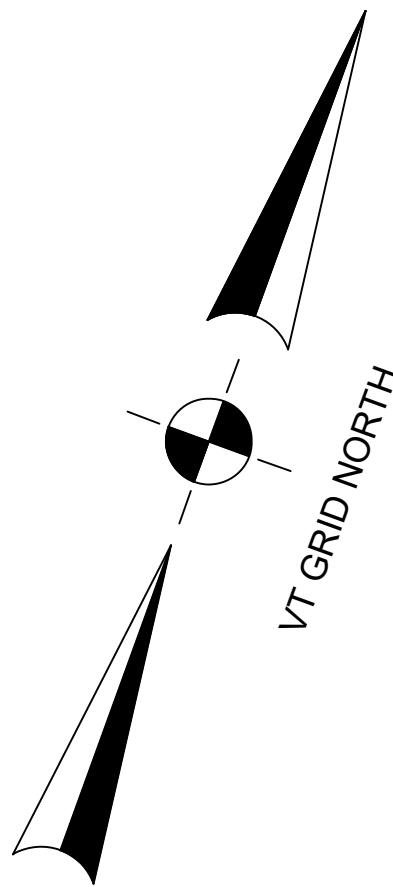
FY25 Improvements

28+00 - 32+00 Jericho Street - TH 18
Town of Hartford Vermont

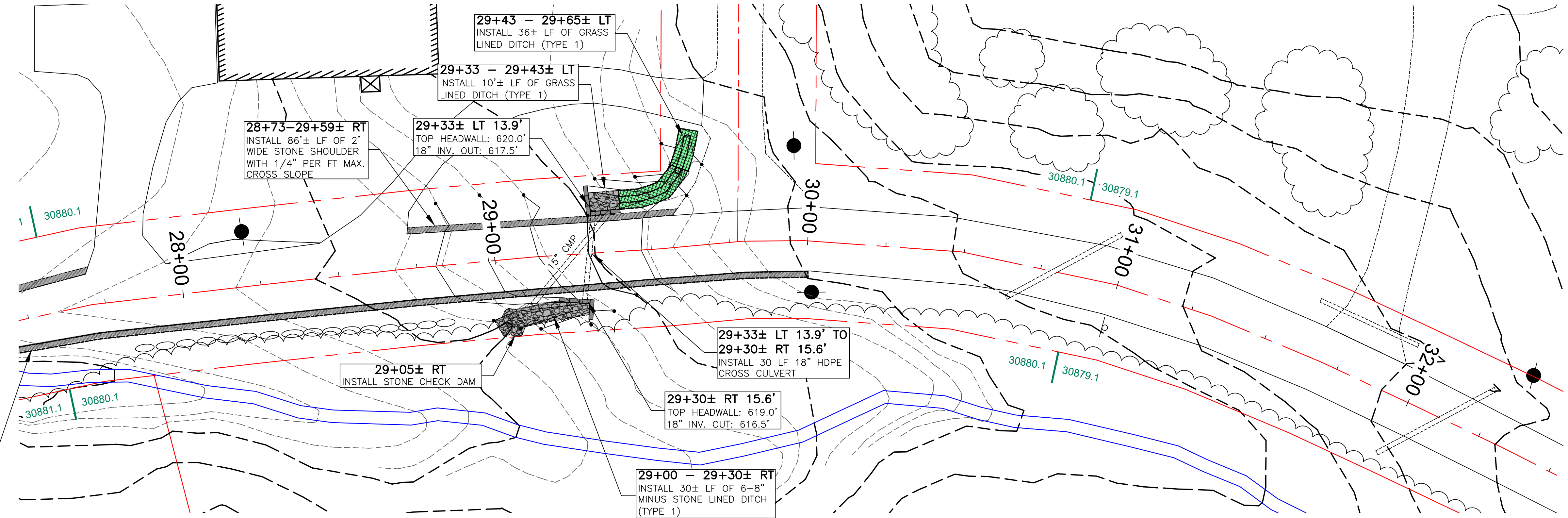
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DATE: 12/19/2023
PROJ. NO. 2024-H1_I

C.21

SHEET NUMBER



SEE SHEET C.20



SEE SHEET C.22

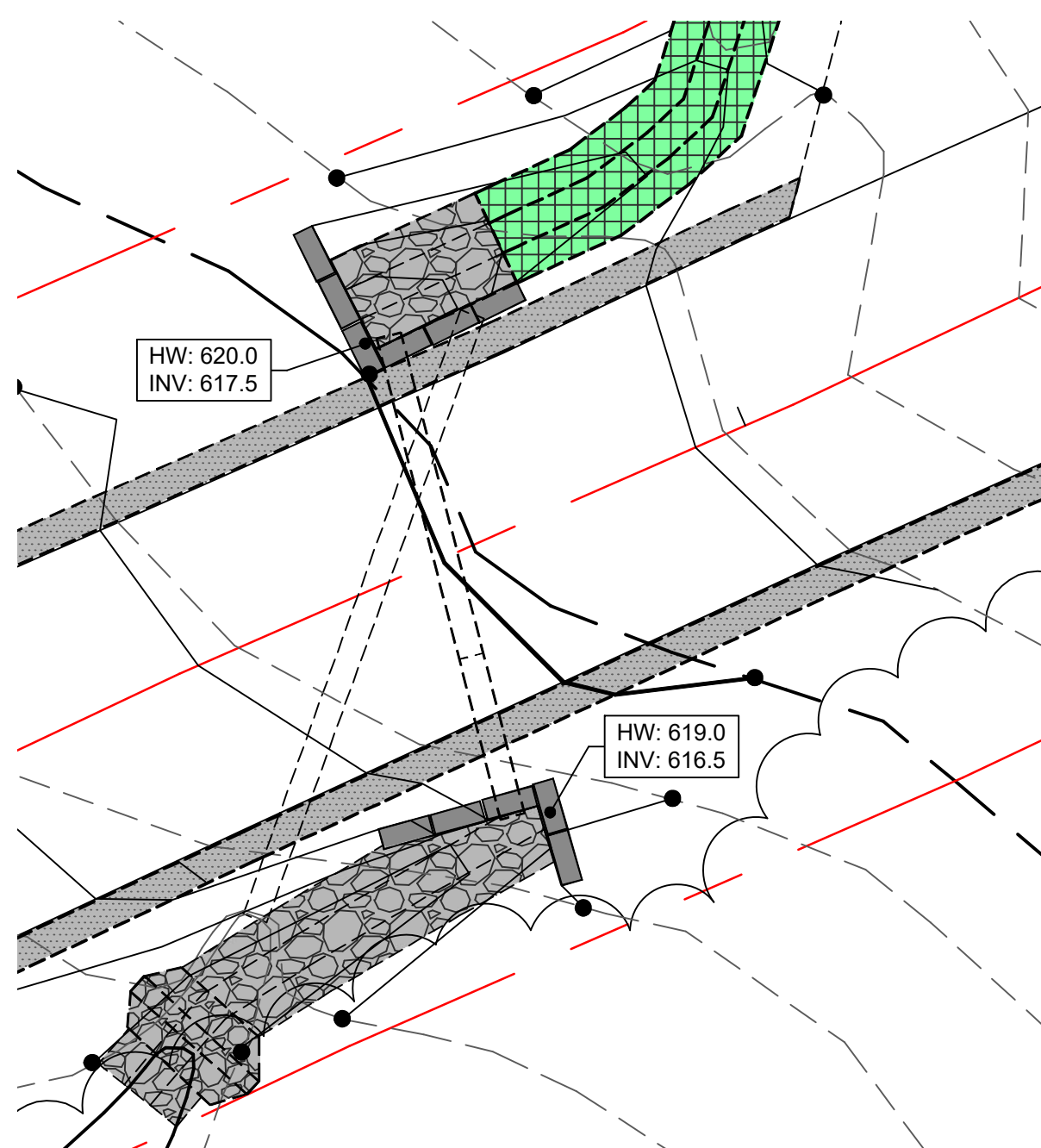
Culvert Inlet at Stream Photograph



NOTE: NO TREATMENT OF RUN-OFF CURRENTLY PROVIDED PRIOR TO INLET ALLOWING DIRECT DISCHARGE OF ROAD SEDIMENT. NEW ALIGNMENT TO PROVIDE GRASS LINED DITCH AND STONE INLET PROTECTION TO ENCOURAGE FILTERING OF SEDIMENTS PRIOR TO ENTERING CULVERT.

CULVERT INSET

SCALE: 1" = 10'



Culvert Outlet at Stream Photograph



NOTE: NO TREATMENT OF RUN-OFF CURRENTLY PROVIDED PRIOR AT OUTLET ALLOWING DIRECT DISCHARGE OF ROAD SEDIMENT. NEW ALIGNMENT TO PROVIDE A SEDIMENT CHECK DAM TO TRAP SEDIMENT AND REDUCE VELOCITIES

