

To: Putnam Inland Wetlands & Watercourses Commission

From: Delia P Fey, AICP, 570 River Road – property owner

Date: November 29, 2022

Re: Application 2022-09 285 River Rd LLC, Putnam River Rd LLC – 11 lot subdivision and gravel excavation

I only had access to the portion of the application that was downloaded with the agenda and the site & subdivision plans thus I don't know if I viewed the entire application, however I have the following questions and comments:

1. Since the application is within 500 ft of the town of Pomfret, did the applicant notice the town of Pomfret as required?
2. I live nearby and we have significant ledge frequently throughout our property. Is there ledge on this property too? And if so, will they need to blast?
3. Has this plan been reviewed by the town's engineer or engineering consultant? **This proposal involves substantial digging, regrading, clearing and a wetlands and stream crossing, etc and therefore definitely needs be reviewed by a civil engineer representing the town.**
4. Where's the rest of the E&S Plan? **The complete site plans, including the E&S Plan should be reviewed by the town's engineer.**
 - a. There is very little in the way of erosion & sediment controls showing in the plans.
 - b. The proposed bridge is indicated as 'temporary' however it is to have abutments that are backfilled which seems to indicate it will be installed with heavy equipment to cross a watercourse that was previously designated important enough to deem an upland review area that is *twice* as large as other watercourses in town.
 - i. The installation of the bridge should include erosion and sediment controls to be used during installation as well as dewatering areas for any earth material, removed from within the area of the streambed and wetlands, in order to create the stable bridge capable of bearing the load of heavy trucks and equipment passing over it.
 - ii. The stream no doubt has debris, boulders and other material that is in the way or otherwise not suitable as a foundation for the bridge abutments which will need to be **removed**, not to mention the 24 inches the abutments are required to be **embedded** into the surrounding grade which requires **excavation of 24 inches of the existing material very close to the edge of the wetlands and stream** to meet this detail of the plan. These details are in the "Detail Sheet No. 2" of the plans. The excavation and the embedding of the abutments indicate regulated activities are proposed either within the wetlands if not the stream itself and definitely within the Upland Review Area. **For this reason, a complete E&S plan should be required with the complete plans and the crossing should be reviewed by the town's engineer.**
 - c. Not sure if the thick dotted grey line at the top of the proposed excavation slope is the E&S controls because it's not in the legend and the E&S controls near the houses is black not grey.
 - i. Re: the gravel pits:
 1. How are the gravel pits to be stabilized temporarily over the life of the project?
 2. Where is the stabilization plan for post-gravel operation?

3. The temporary grading at the top and outer edge of the gravel pit shows a 12 ft drop over 14 ft or a **very steep slope** (85.7%). Considering we heard at the last meeting that trespassing occurs in this area, a fence should be required at the top of the slope to prevent anyone from encroaching on the gravel pit, particularly on lot 6, where the house is shown only 60 ft from the top of the slope, with the yard going right up to the slope.
4. Where is the dewatering area for earth materials that are to be removed from below the waterline?
5. There are no stockpile areas indicated. Is the topsoil going to be removed along with the gravel? If so, what will be used to stabilize the final graded gravel pit and associated disturbed areas? I recommend not allowing invasive plants to be included.
5. In multiple locations, the limits of disturbance to the edge of wetlands is 20 +/- ft, which is very little buffer to the wetlands, from the substantial excavation that is proposed.
6. The two proposed ponds, if approved, will become regulated watercourses, and therefore should be designed so as to be more of a beneficial function for wildlife as it will occupy so much space in the habitat. If not designed to function as a pond supportive of wildlife then it is more of a manmade hazard which is entirely avoidable. As proposed it appears the ponds of the proposed depths with the steeply sloping sides appear more to forever be a gravel pits and hazards not ponds.
7. What's the E&S Bond amount? **The E&S Bond estimate should be reviewed by the town's engineer.**
8. At the last meeting, it was stated that fish will get to the ponds, supposedly as a way to describe how these ponds will serve as habitat. I can't understand how this is possible as they do not connect to any waterways that support fish.

I am in no way opposed to the new homes or to gravel excavation in general, as I support economic development and the right of a property owner to develop their land. However, all construction should be reviewed by a civil engineer representing the town as well as following all Best Management Practices. Having stated this, as a professional planner with 21 years experience in reviewing development proposals very similar to this one, this plan is not complete as it stands.

Excavation Plan No. 2

Bridge & wetlands crossing

EXCAVATION PHASE 2
EXCAVATION VOLUME = 258,000 CY
EXCAVATION AREA = 6.5 ACRES

RIVER ROAD

EXCAVATION PLAN No. 2
PREPARED FOR
285 RIVER ROAD, LLC & PUTNAM RIVER ROAD, L.L.C.
RIVER ROAD & MODOCK ROAD
PUTNAM, CONNECTICUT

Provost & Rovero, Inc.
Civil Engineering • Surveying • Site Planning
Structural • Mechanical • Architectural Engineering
57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 239-0856 - FAX: (860) 239-0860
info@provostinc.com
www.provostinc.com

DATE: 6/29/2022 DRAWN: DJH
SCALE: 1" = 40' DESIGNED: DJH
SHEET: 11 OF 17 CHK BY: ---
DWG. No Client File JOB No: 202085

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.
DAVID J. FIELD, L.S. LIC. NO. 24287 DATE: 6/29/22
NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

Excavation Plan No. 2

Bridge & wetlands crossing

EXCAVATION PHASE 2
EXCAVATION VOLUME = 258,000 CY
EXCAVATION AREA = 6.5 ACRES

RIVER ROAD

WETLANDS

GRAPHIC SCALE IN FEET

KEY MAP

SCALE 1" = 800'

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DAVID J. FIELD, L.S. LIC. NO. 24287 DATE 6/1/22

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

REVISIONS	
DATE	DESCRIPTION
1/28/2022	WSE. REVISIONS

DATE: 6/29/2022 DRAWN: DJH
SCALE: 1" = 40' DESIGNED: DJH
SHEET: 11 OF 17 CHK BY: ---
DWG. No Client File JOB No: 202085

Provost & Rovero, Inc.
Civil Engineering • Surveying • Site Planning
Structural • Mechanical • Architectural Engineering
57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 230-0856 - FAX: (860) 239-0860
info@provostinc.com
www.provostinc.com

Excavation Plan No. 2

Bridge & wetlands crossing

EXCAVATION PHASE 2
EXCAVATION VOLUME = 258,000 CY
EXCAVATION AREA = 6.5 ACRES

RIVER ROAD

WETLANDS

GRAPHIC SCALE IN FEET

KEY MAP

SCALE 1" = 800'

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DAVID J. FIELD, L.S. LIC. NO. 24287 DATE 6/1/22

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

REVISIONS	
DATE	DESCRIPTION
1/28/2022	WSE. REVISIONS

DATE: 6/29/2022 DRAWN: DJH
SCALE: 1" = 40' DESIGNED: DJH
SHEET: 11 OF 17 CHK BY: ---
DWG. No Client File JOB No: 202085

Provost & Rovero, Inc.
Civil Engineering • Surveying • Site Planning
Structural • Mechanical • Architectural Engineering
57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 230-0856 - FAX: (860) 239-0860
info@provostinc.com
www.provostinc.com

Excavation Plan No. 2

Bridge & wetlands crossing

EXCAVATION PHASE 2
EXCAVATION VOLUME = 258,000 CY
EXCAVATION AREA = 6.5 ACRES

RIVER ROAD

KEY MAP
SCALE 1" = 800'

PROVEST & ROVERO, INC.
Civil Engineering • Surveying • Site Planning
Structural • Mechanical • Architectural Engineering
57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 239-0856 - FAX: (860) 239-0860
info@provestinc.com
www.provestinc.com

Excavation Plan No. 2

Bridge & wetlands crossing

EXCAVATION PHASE 2
EXCAVATION VOLUME = 258,000 CY
EXCAVATION AREA = 6.5 ACRES

RIVER ROAD

KEY MAP
SCALE 1" = 800'

PROVEST & ROVERO, INC.
Civil Engineering • Surveying • Site Planning
Structural • Mechanical • Architectural Engineering
57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 230-0856 - FAX: (860) 230-0860
info@provestinc.com
www.provestinc.com

Excavation Plan No. 2

Bridge & wetlands crossing

EXCAVATION PHASE 2
EXCAVATION VOLUME = 258,000 CY
EXCAVATION AREA = 6.5 ACRES

RIVER ROAD

WETLANDS

GRAPHIC SCALE IN FEET

KEY MAP

SCALE 1" = 800'

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DAVID J. FIELD, L.S. LIC. NO. 24287 DATE 6/1/22

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

REVISIONS	
DATE	DESCRIPTION
1/28/2022	WSE. REVISIONS

DATE: 6/29/2022 DRAWN: DJH
SCALE: 1" = 40' DESIGNED: DJH
SHEET: 11 OF 17 CHK BY: ---
DWG. No Client File JOB No: 202085

Provost & Rovero, Inc.
Civil Engineering • Surveying • Site Planning
Structural • Mechanical • Architectural Engineering
57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 230-0856 - FAX: (860) 239-0860
info@provostinc.com
www.provostinc.com

Excavation Plan No. 2

Bridge & wetlands crossing

EXCAVATION PHASE 2
EXCAVATION VOLUME = 258,000 CY
EXCAVATION AREA = 6.5 ACRES

RIVER ROAD

WETLANDS

GRAPHIC SCALE IN FEET

KEY MAP

SCALE 1" = 800'

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DAVID J. FIELD, L.S. LIC. NO. 24287 DATE 6/1/22

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

REVISIONS	
DATE	DESCRIPTION
1/28/2022	WSE. REVISIONS

DATE: 6/29/2022 DRAWN: DJH
SCALE: 1" = 40' DESIGNED: DJH
SHEET: 11 OF 17 CHK BY: ---
DWG. No Client File JOB No: 202085

Provost & Rovero, Inc.
Civil Engineering • Surveying • Site Planning
Structural • Mechanical • Architectural Engineering
57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 230-8856 - FAX: (860) 239-0860
info@provostinc.com
www.provostinc.com

Excavation Plan No. 2

Bridge & wetlands crossing

EXCAVATION PHASE 2
EXCAVATION VOLUME = 258,000 CY
EXCAVATION AREA = 6.5 ACRES

RIVER ROAD

WETLANDS

GRAPHIC SCALE IN FEET

KEY MAP

SCALE 1" = 800'

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DAVID J. FIELD, L.S. LIC. NO. 24287 DATE 6/1/22

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

REVISIONS	
DATE	DESCRIPTION
1/28/2022	WSE. REVISIONS

DATE: 6/29/2022 DRAWN: DJH
SCALE: 1" = 40' DESIGNED: DJH
SHEET: 11 OF 17 CHK BY: ---
DWG. No Client File JOB No: 202085

Provost & Rovero, Inc.
Civil Engineering • Surveying • Site Planning
Structural • Mechanical • Architectural Engineering
57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 230-8856 - FAX: (860) 239-0860
info@provostinc.com
www.provostinc.com

Excavation Plan No. 2

Bridge & wetlands crossing

EXCAVATION PHASE 2
EXCAVATION VOLUME = 258,000 CY
EXCAVATION AREA = 6.5 ACRES

RIVER ROAD

WETLANDS

GRAPHIC SCALE IN FEET

KEY MAP

SCALE 1" = 800'

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DAVID J. FIELD, L.S. LIC. NO. 24287 DATE 6/1/22

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

REVISIONS	
DATE	DESCRIPTION
1/28/2022	WSE. REVISIONS

DATE: 6/29/2022 DRAWN: DJH
SCALE: 1" = 40' DESIGNED: DJH
SHEET: 11 OF 17 CHK BY: ---
DWG. No Client File JOB No: 202085

Provost & Rovero, Inc.
Civil Engineering • Surveying • Site Planning
Structural • Mechanical • Architectural Engineering
57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 230-8856 - FAX: (860) 239-0860
info@provostinc.com
www.provostinc.com

Excavation Plan No. 2

Bridge & wetlands crossing

EXCAVATION PHASE 2
EXCAVATION VOLUME = 258,000 CY
EXCAVATION AREA = 6.5 ACRES

RIVER ROAD

WETLANDS

GRAPHIC SCALE IN FEET

KEY MAP

SCALE 1" = 800'

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DAVID J. FIELD, L.S. LIC. NO. 24287 DATE 6/1/22

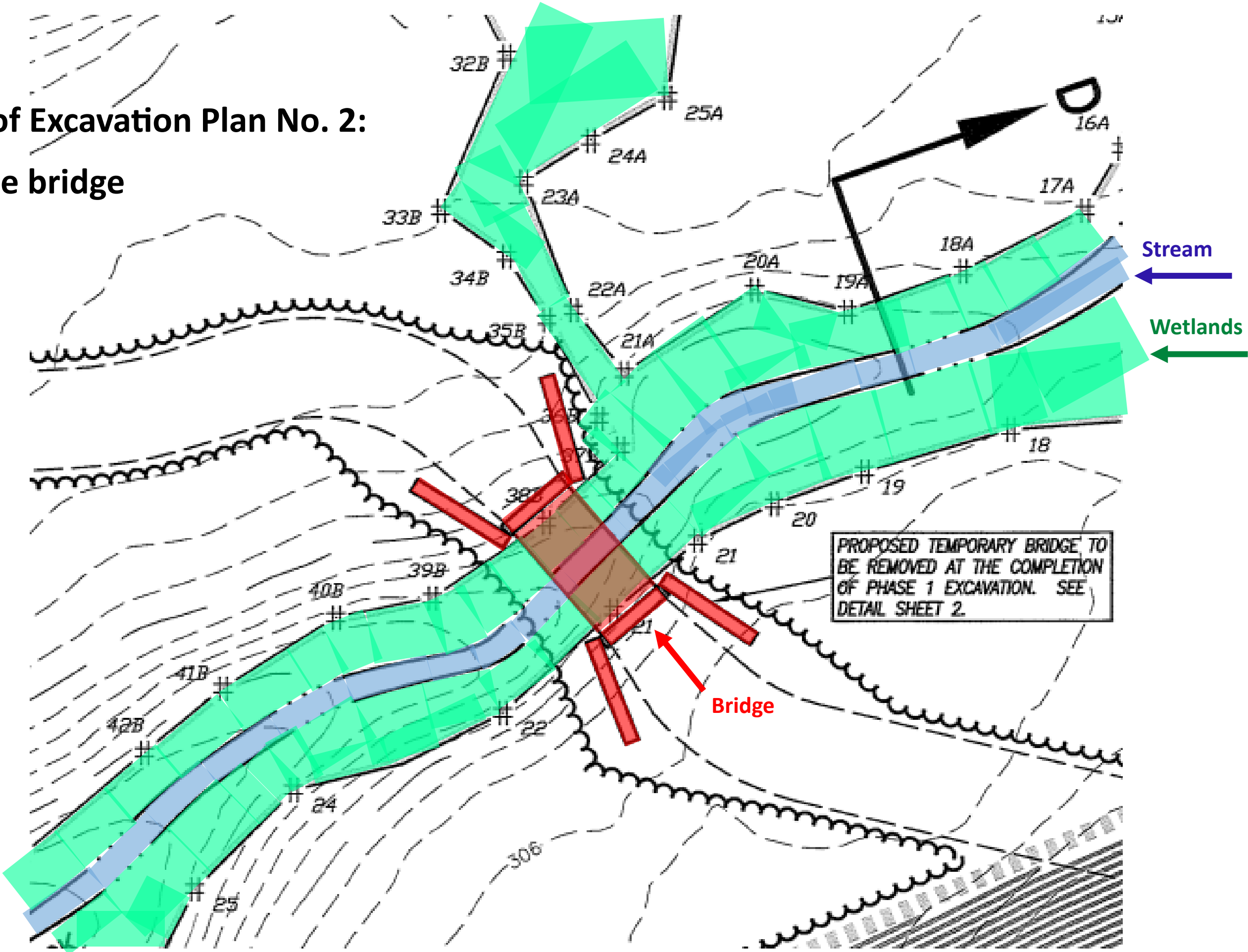
NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

REVISIONS	
DATE	DESCRIPTION
1/28/2022	WSE. REVISIONS

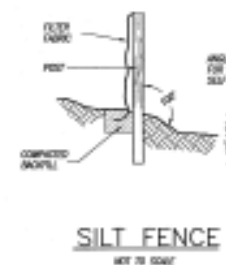
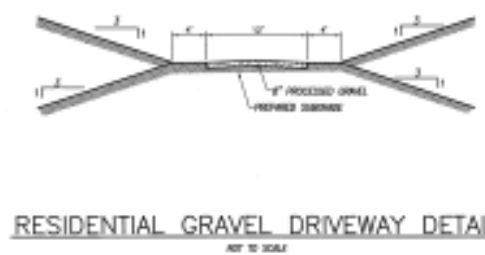
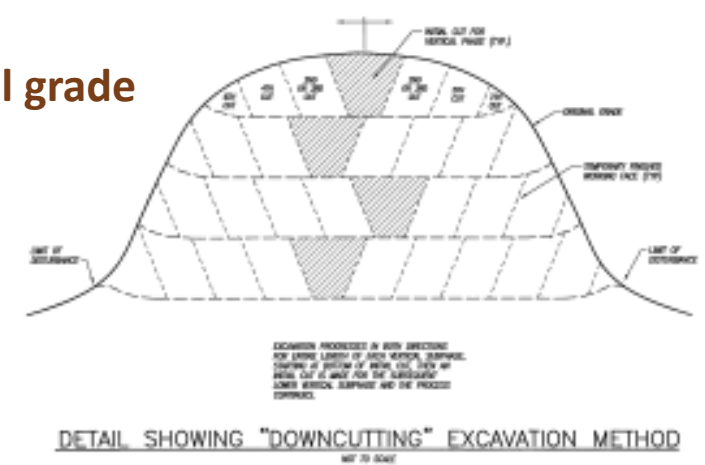
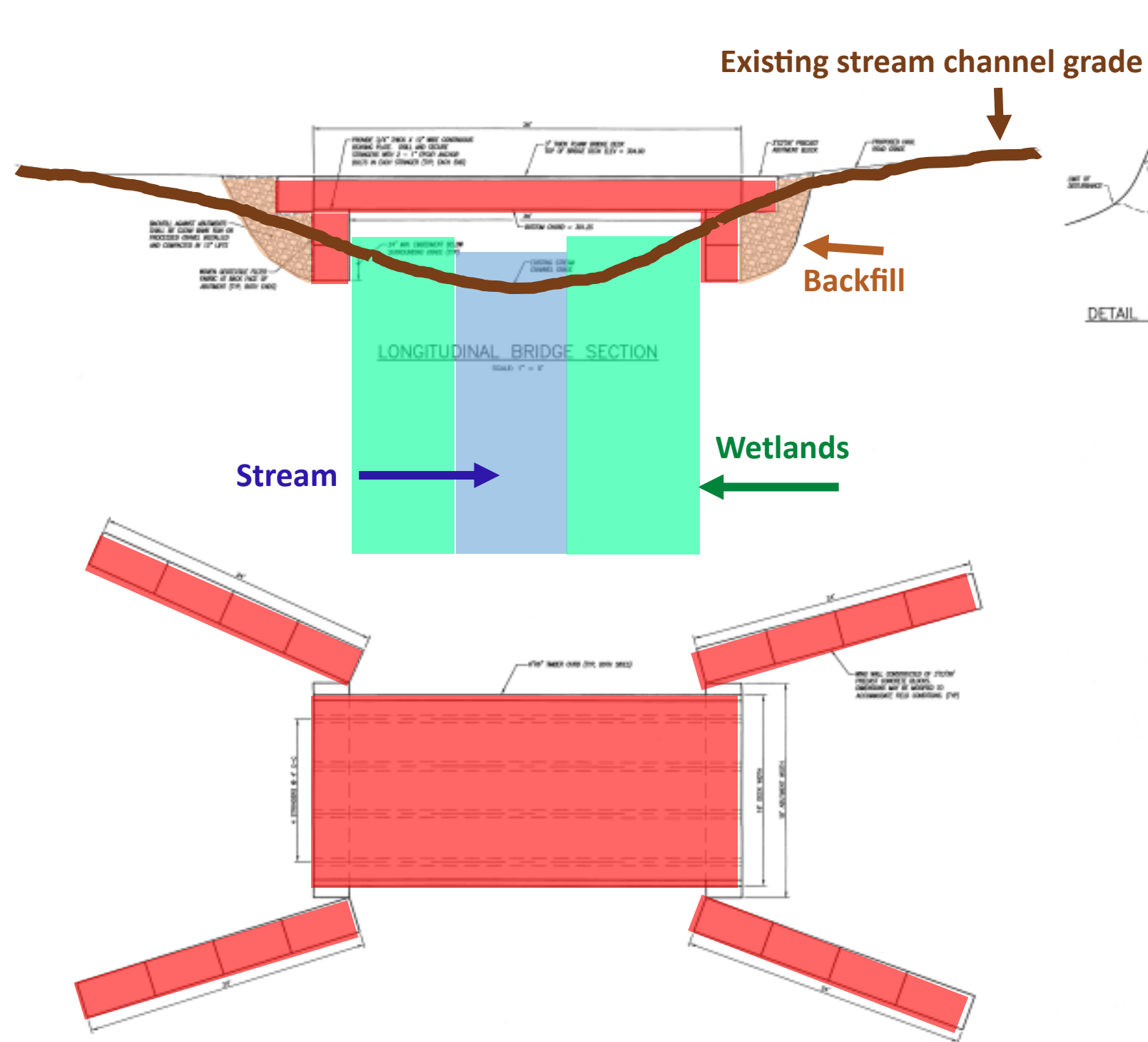
DATE: 6/29/2022 DRAWN: DJH
SCALE: 1" = 40' DESIGNED: DJH
SHEET: 11 OF 17 CHK BY: ---
DWG. No Client File JOB No: 202085

Provost & Rovero, Inc.
Civil Engineering • Surveying • Site Planning
Structural • Mechanical • Architectural Engineering
57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 230-8856 - FAX: (860) 239-0860
info@provostinc.com
www.provostinc.com

Close-up of Excavation Plan No. 2:
Area of the bridge



LDF 1 TP 1-3, 1-4, 1-5 Depth to restrictive layer = 27 in. Slope Σ = 1.8 Σ Number of Bedrooms = 3 Percolation rate = 4.6 in./hr Max. depth into exist. grade = 0 in. System Size = 480 s.f. Hydraulic Factor = 42 Flow Factor = 1.50 Perc Factor = 1.80 42 x 1.50 x 1.00 = 63.0' MSS = 63.0'	Depth to restrictive layer = 31 in. Slope Σ = 11.8 Σ Number of Bedrooms = 3 Percolation rate = 6.6 in./hr Max. depth into exist. grade = 11 in. System Size = 495 s.f. Hydraulic Factor = 20 Flow Factor = 1.50 Perc Factor = 1.00 20 x 1.50 x 1.80 = 30.0' MSS = 30.0'
LDF 2 TP 2-1, 2-2 Depth to restrictive layer = 28 in. Slope Σ = 8.5 Σ Number of Bedrooms = 3 Percolation rate = 2.6 in./hr Max. depth into exist. grade = 1 in. System Size = 480 s.f. Hydraulic Factor = 36 Flow Factor = 1.50 Perc Factor = 1.80 36 x 1.50 x 1.00 = 36.0' MSS = 36.0'	LDF 9 TP 10-6, 10-7, 10-8 Depth to restrictive layer = 26 in. Slope Σ = 3.7 Σ Number of Bedrooms = 3 Percolation rate = 8.6 in./hr Max. depth into exist. grade = 8 in. System Size = 495 s.f. Hydraulic Factor = 36 Flow Factor = 1.50 Perc Factor = 1.00 36 x 1.50 x 1.80 = 45.0' MSS = 45.0'
LDF 3 TP 4-1, 3-2 Depth to restrictive layer = 28 in. Slope Σ = 2.8 Σ Number of Bedrooms = 3 Percolation rate = 2.6 in./hr Max. depth into exist. grade = 2 in. System Size = 480 s.f. Hydraulic Factor = 48 Flow Factor = 1.50 Perc Factor = 1.00 48 x 1.50 x 1.00 = 72.0' MSS = 72.0'	LDF 10 TP 11-1, 11-2 Depth to restrictive layer = 26 in. Slope Σ = 5.3 Σ Number of Bedrooms = 3 Percolation rate = 8.0 in./hr Max. depth into exist. grade = 8 in. System Size = 495 s.f. Hydraulic Factor = 36 Flow Factor = 1.80 Perc Factor = 1.00 36 x 1.50 x 1.80 = 45.0' MSS = 45.0'
LDF 4 TP 4-1, 4-3 Depth to restrictive layer = 28 in. Slope Σ = 1.1 Σ Number of Bedrooms = 3 Percolation rate = 4.6 in./hr Max. depth into exist. grade = 2 in. System Size = 480 s.f. Hydraulic Factor = 48 Flow Factor = 1.50 Perc Factor = 1.00 48 x 1.50 x 1.00 = 72.0' MSS = 72.0'	LDF 11 TP 12-1, 12-3 Depth to restrictive layer = 25 in. Slope Σ = 8.9 Σ Number of Bedrooms = 3 Percolation rate = 8.0 in./hr Max. depth into exist. grade = 8 in. System Size = 495 s.f. Hydraulic Factor = 28 Flow Factor = 1.80 Perc Factor = 1.00 28 x 1.50 x 1.80 = 42.0' MSS = 42.0'
LDF 5 TP 5-1, 5-2 Depth to restrictive layer = 30 in. Slope Σ = 1.1 Σ Number of Bedrooms = 3 Percolation rate = 3.0 in./hr Max. depth into exist. grade = 1 in. System Size = 480 s.f. Hydraulic Factor = 48 Flow Factor = 1.50 Perc Factor = 1.00 48 x 1.50 x 1.00 = 72.0' MSS = 72.0'	
LDF 6 TP 7-1, 7-3 Depth to restrictive layer = 72 in. Slope Σ = 1.4 Σ Number of Bedrooms = 3 Percolation rate = 5.7 in./hr Max. depth into exist. grade = 24 in. System Size = 480 s.f. MSS is not applicable	
LDF 7 TP 6-1, 6-2 Depth to restrictive layer = 30 in. Slope Σ = 1.2 Σ Number of Bedrooms = 3 Percolation rate = 2.6 in./hr Max. depth into exist. grade = 6 in. System Size = 480 s.f. Hydraulic Factor = 48 Flow Factor = 1.80 Perc Factor = 1.00 48 x 1.50 x 1.80 = 75.5' MSS = 73.5'	



Detail Sheet No. 2

BRIDGE PLAN VIEW
SCALE: 1" = 5'



REVISIONS	
DATE	DESCRIPTION
7/28/2023	MINOR REVISIONS

DATE: 6/29/2023	DRAWN: DJH
SCALE: AS SHOWN	DESIGN: DJH
SHEET: 17 OF 17	CHECK BY: ---
ONG: No Client File	JOB No: 203089

DETAIL SHEET No. 2

PREPARED FOR

285 RIVER ROAD, LLC &
PUTNAM RIVER ROAD, L.L.C.

RIVER ROAD & MODOCK ROAD
PUTNAM, CONNECTICUT

Provost & Rovero, Inc.

Civil Engineering • Surveying • Site Planning
Structural • Mechanical • Architectural Engineering

57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 238-0856 • FAX: (860) 230-0860
info@provostinc.com
www.provostinc.com

This stream crossing involves 2 ft excavation immediately adjacent to if not within wetlands with additional filling for the required backfill, again **very** close to wetlands and the stream. Although the bridge is “temporary” it still involves excavation and backfilling.

Note: This building is temporary too as it will someday come down.

