Yankee Ingenuity – Innovative, Cost Effective Approaches to Environmentally Functional Forestry Haul Road Stream Crossings in Maine

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“Tell me what you want it to look like, not how to do it.”

Four Key Principles

Span the stream

Set elevation right

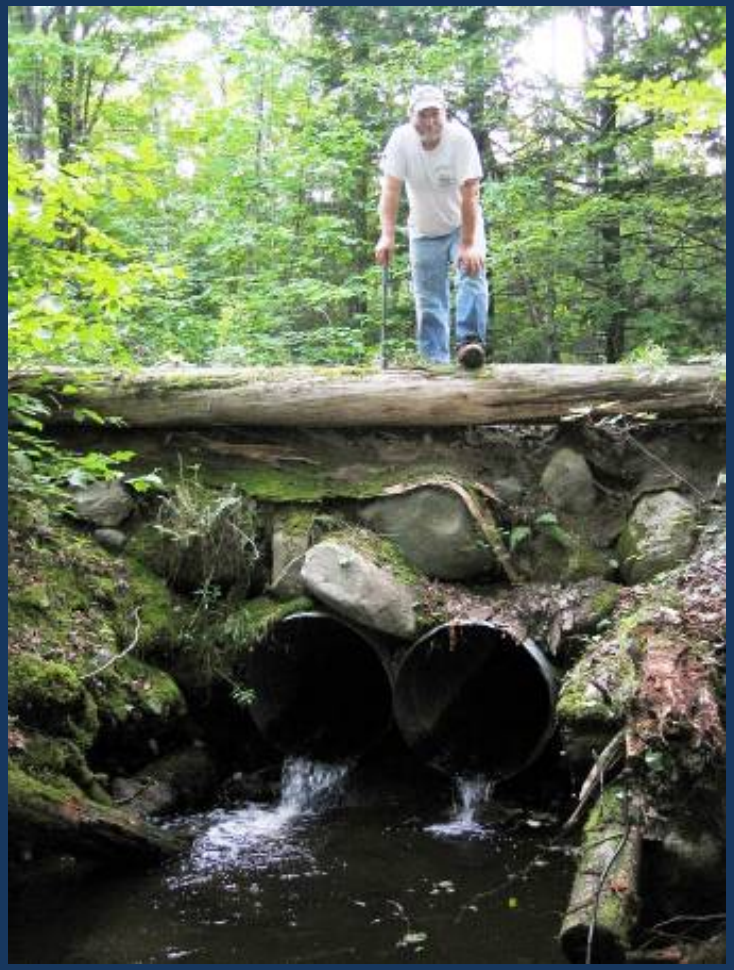
Slope matches stream

Substrate in the crossing

Training

Concrete Waste Blocks

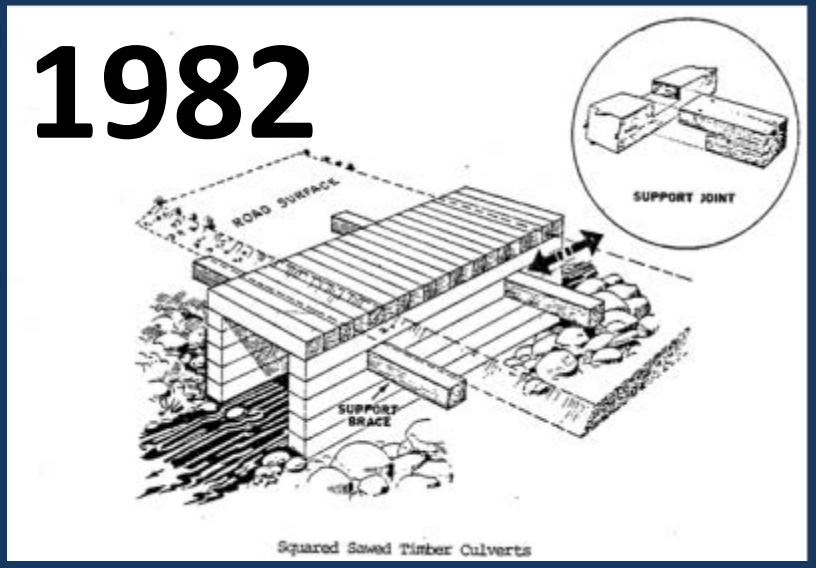
Concrete Waste Block Abutment Bridge



22’ span bridge $6,200 Materials - $11,200 Installed

Concrete deck panels and corner blocks

Waste Block and PT boxes



50’ long 10’ span under 8’ of fill ~$10,000 installed

24’ long 5’ span PT box ~$3,000 installed

Mini-Bridge

3’ span Materials ~ $700

Small Infiltrator Arch

3.5’ span 32’ long $2,800 installed

Large Infiltrator Arch

6’ span 40’ long Materials ~$4,600

Guard-rail ½ pipe

8’ span 40’ long ~$6,800 installed

Railcar ½ pipe

9’ span 40’ long materials free

Temporary Bridges

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Temporary Bridges

Abutment materials cost ~$1,700

Abutment material cost $0
24’ bridge
$10,000

Dirigo Arches

5’ span 32’ long ~$3,000 installed

5’ Dirigo arch

8’ Dirigo Arch

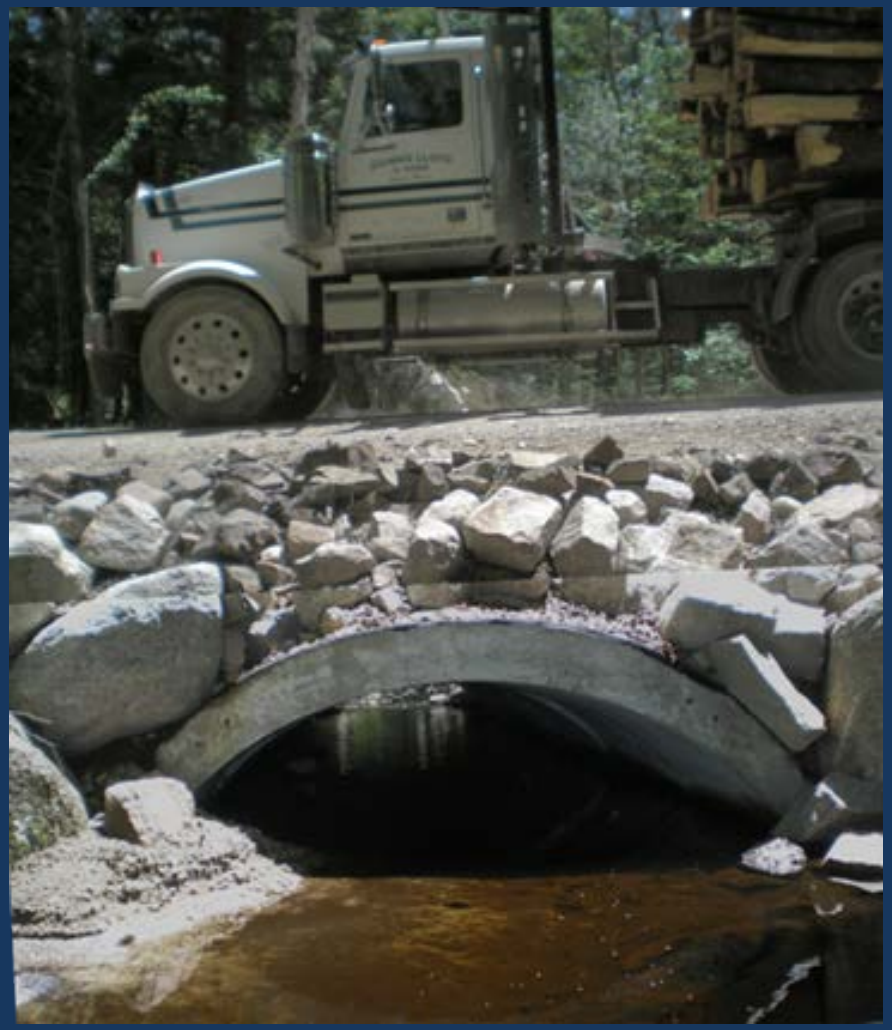
8’ span 40’ long ~$9,600 installed

$390 for 4’ arch section
$90 Footers 1’x2’x8’

Precast Box

Properly embedded pipes

Skylight fill

Decommissioning

Questions?