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

Keith Kanoti
Water Resources Forester
Department of Agriculture Conservation and Forestry
Maine Forest Service
“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

$50 to $80
Concrete Waste Block Abutment Bridge

22’ span bridge $6,200 Materials - $11,200 Installed
Concrete deck panels and corner blocks

$160

$650
Waste Block and PT boxes

1982

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

50’ long 10’
span under 8’
of fill ~$10,000
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 \( \frac{1}{2} \) pipe

8’ span 40’ long ~$6,800 installed
Railcar $\frac{1}{2}$ pipe

9’ span 40’ long materials free
Temporary Bridges
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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

$390 8’ section
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?