



# Popple Dungeon Road Culvert Replacement



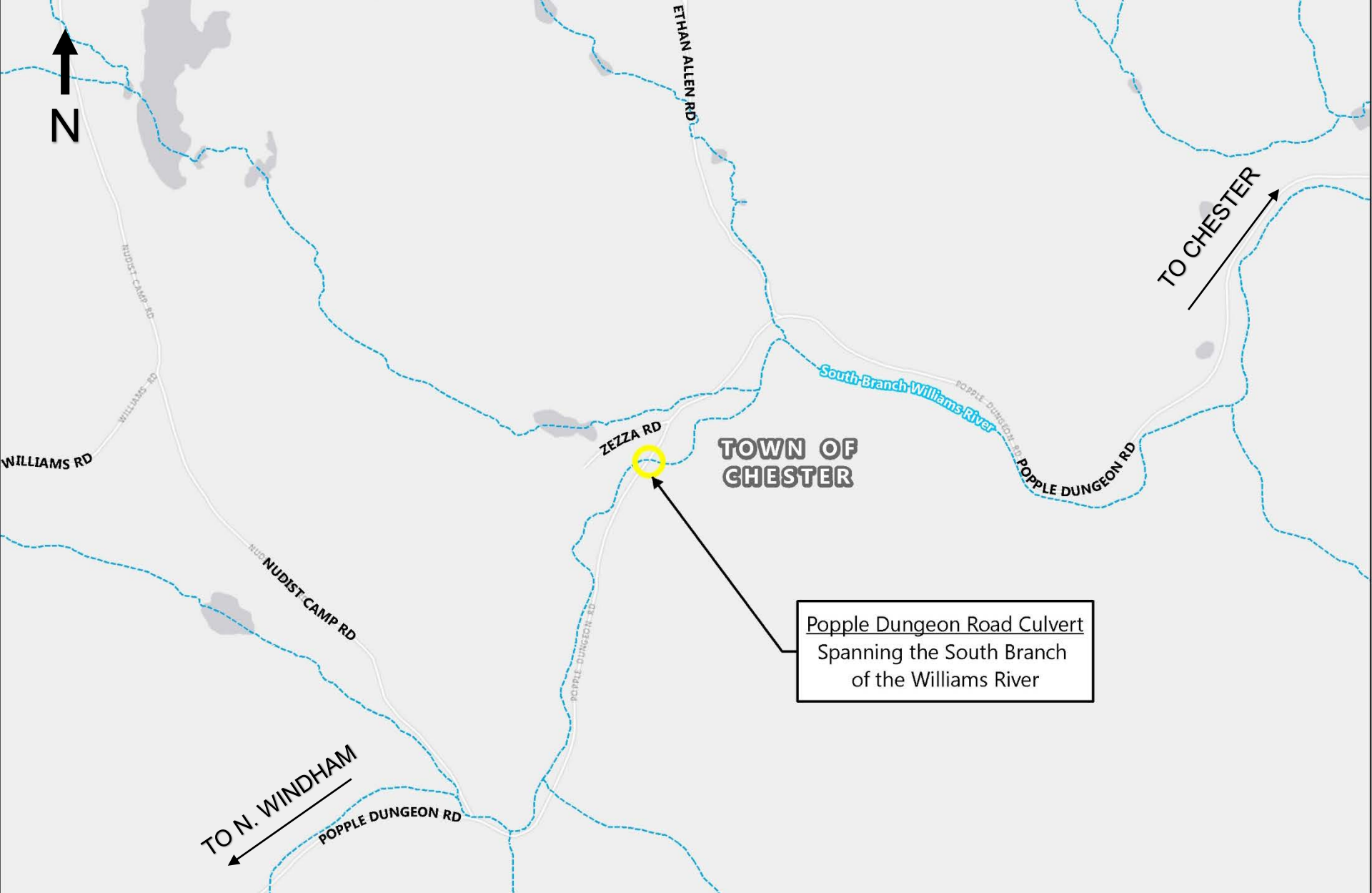
*Presented To*  
**Town of Chester, VT**

*Presented by*  
**VHB**

*December 6, 2017*

# Meeting with you today

- **Julie Hance**, Local Project Manager
- **Derek Kenison**, VTrans Project Supervisor
- **Aaron Guyette**, PE, VHB Project Manager
- **Jason Keener**, PE, VHB Project Engineer



Popple Dungeon Road Culvert Location

# Culvert Deficiencies

- Structural Deterioration
  - Undermining of Bottom and Sides
- Insufficient Hydraulic Capacity
  - Flooding of Popple Dungeon Road
- Aquatic Organism Passage
  - Perched Outlet
  - Non-Native Bottom
- Insufficient Width



**VTrans  
Municipal Assistance Bureau  
Project Development Process**



# VTrans Municipal Assistance Bureau (MAB) Project Development Process

Phase A – Project Definition

Phase B – Project Design

Phase C – Construction



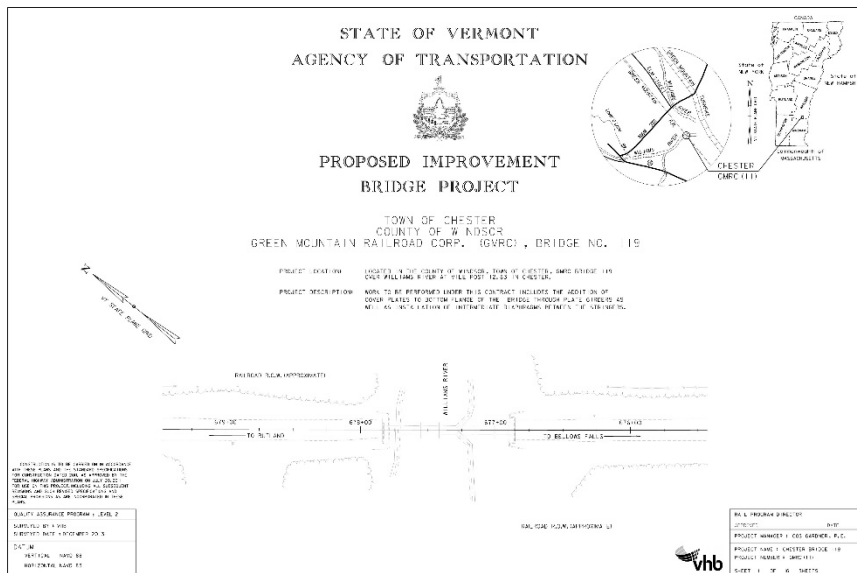
# Phase A - Project Definition

- Data Collection
- ***Local Concerns Meeting***
- Purpose & Need Statement
- Alternatives Investigation
- Alternatives Presentation
  - Public Meeting Jan./Feb. 2018
- Preferred Alternative Selection
- Conceptual Plans (25%)
- NEPA Documentation



# Phase B – Project Design

- Preliminary Plans
- Environmental Permitting
- Right-Of-Way Process
- Final Plans (85%)
- Contract Plans (100%)





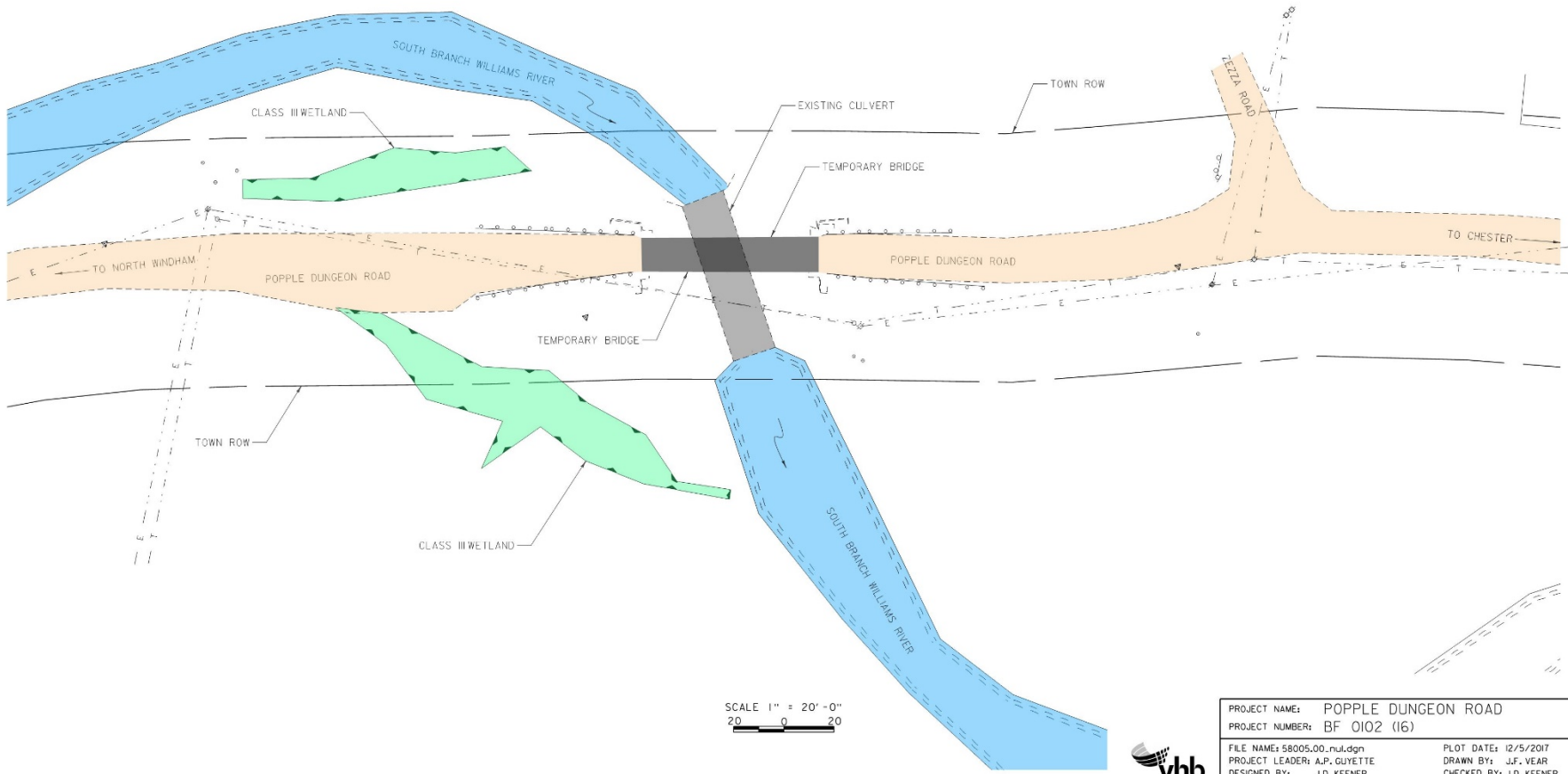
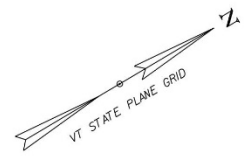
# Phase C – Construction

- Bid Phase
- Field Construction
- Project Closeout



# Existing conditions & Project concerns





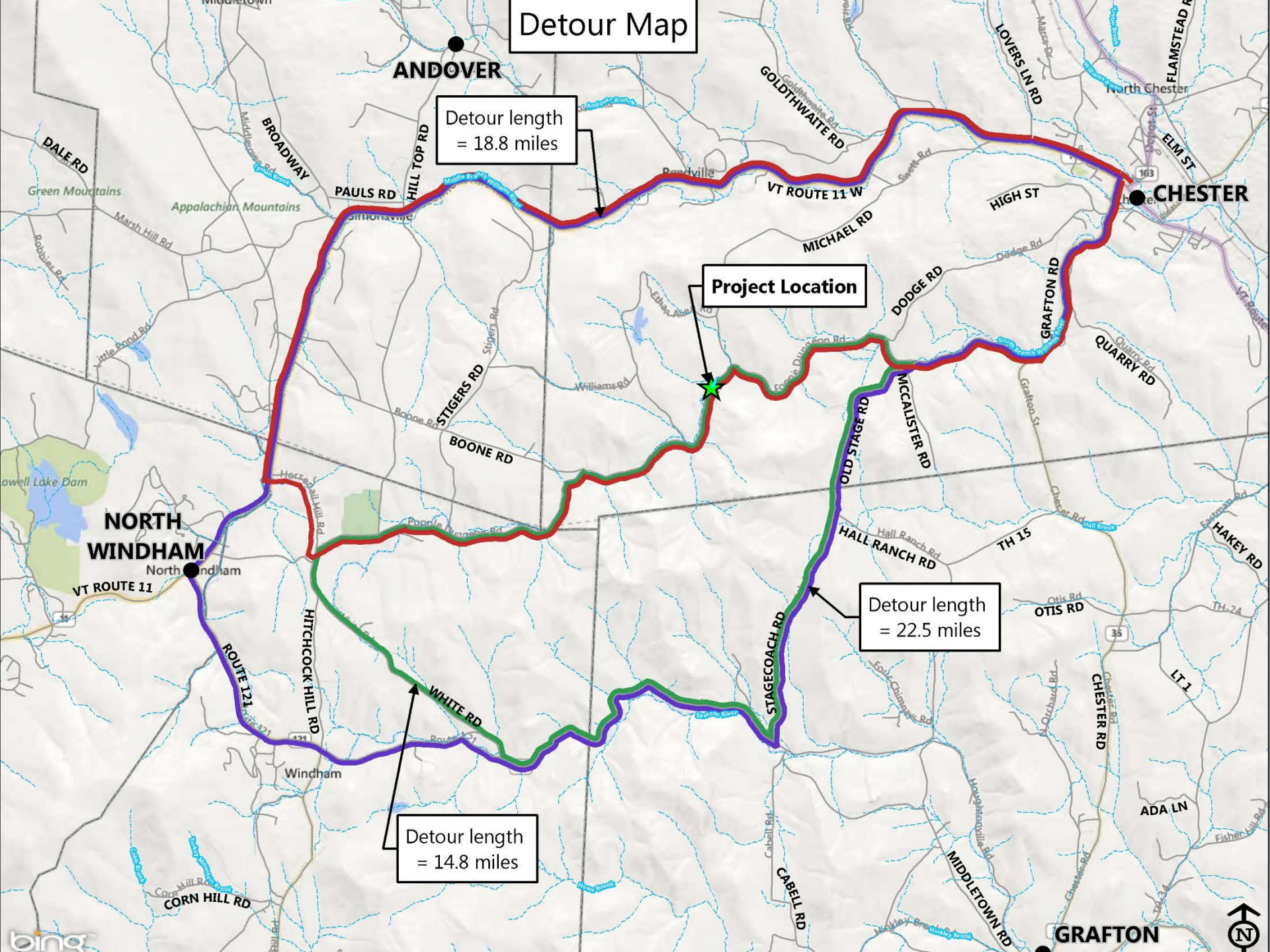
PROJECT NAME:	POPPLE DUNGEON ROAD
PROJECT NUMBER:	BF 0102 (I6)
FILE NAME:	58005.00.mxd.dgn
PROJECT LEADER:	A.P. GUYETTE
DESIGNED BY:	J.D. KEENER
EXISTING CONDITIONS	
PLOT DATE:	12/5/2017
DRAWN BY:	J.F. VEAR
CHECKED BY:	J.D. KEENER
SHEET	1 OF 1

# Popple Dungeon Road Culvert Base Map

# Project Concerns & Constraints

- Traffic Control
  - 15 Mile, 20-30 Minute Detour
- Permitting Requirements
  - Regulated Wetlands
  - Time of Year Restrictions (Fish & Bats)
- Rights-Of-Way
- Others

# Detour Map



Detour length = 18.8 miles

Project Location

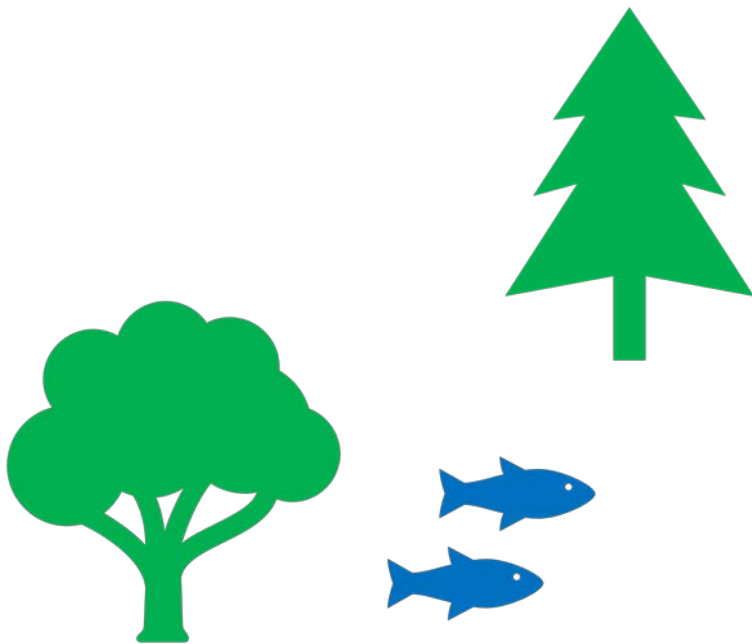
Detour length = 22.5 miles

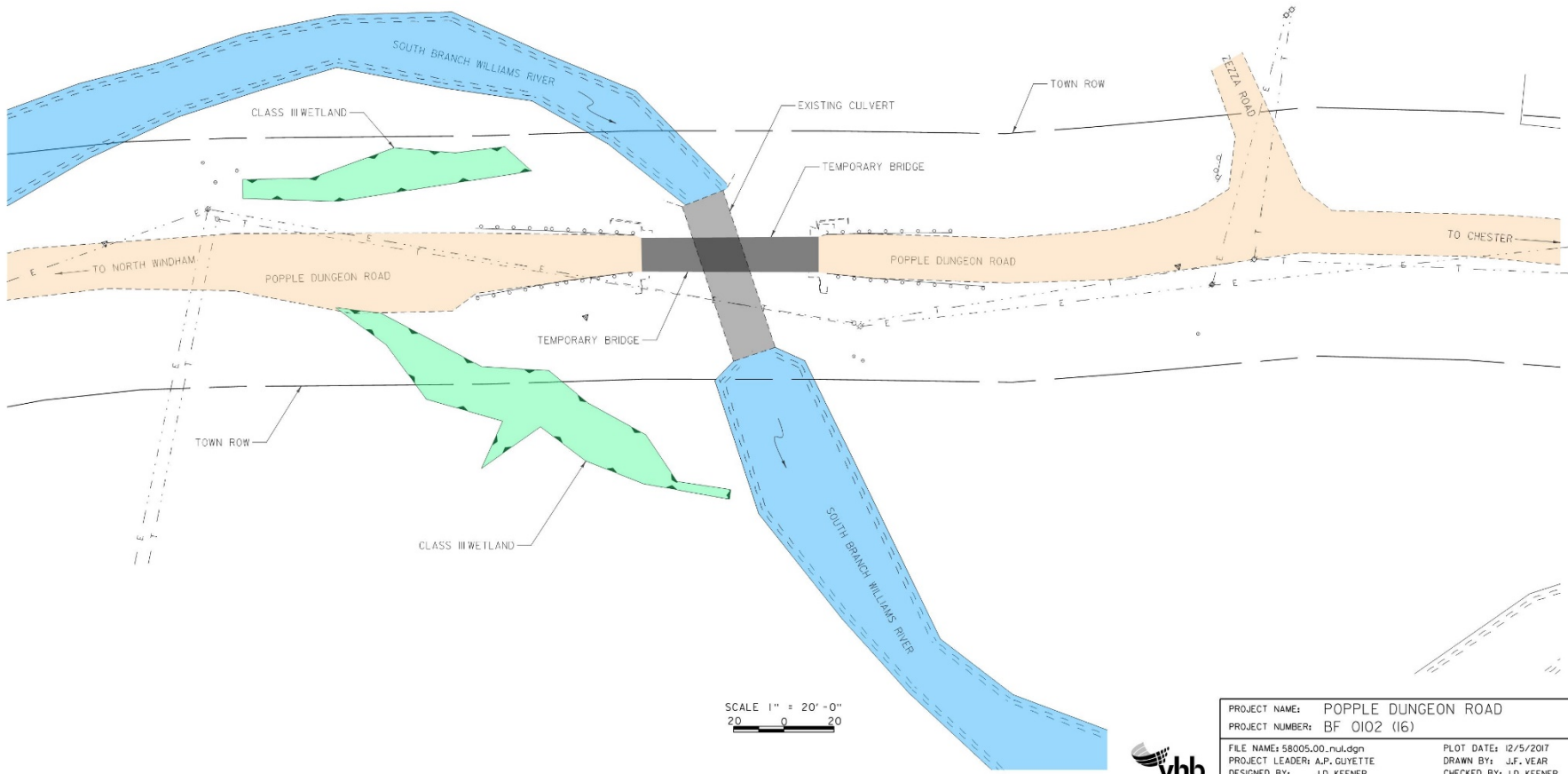
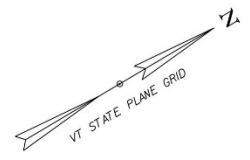
Detour length = 14.8 miles



# Anticipated Permitting Constraints

- In-Stream work windows
- Minimize and avoid disturbance to wetlands
- Tree cutting time of year restrictions





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# Local Concerns

# Project Milestones / Next Steps

- Alternatives Development – December 2017
- Conceptual Plans – January/February 2018
- Preliminary Plans – Spring 2018
- Right-Of-Way/Permitting – Spring/Summer 2018
- Final Design – Summer 2018
- Bid Phase – Fall 2018
- Construction – 2019



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