

REPLACEMENT OF BRIDGE NO. 15 – 01 ON HESSONG BRIDGE ROAD OVER LITTLE HUNTING CREEK



PUBLIC MEETING
THURSDAY, APRIL 5, 2018
PLEASE SIGN-IN AND TAKE
A COMMENT SHEET



FREDERICK COUNTY DIVISION OF PUBLIC WORKS
DEPT. OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING

PROJECT TEAM

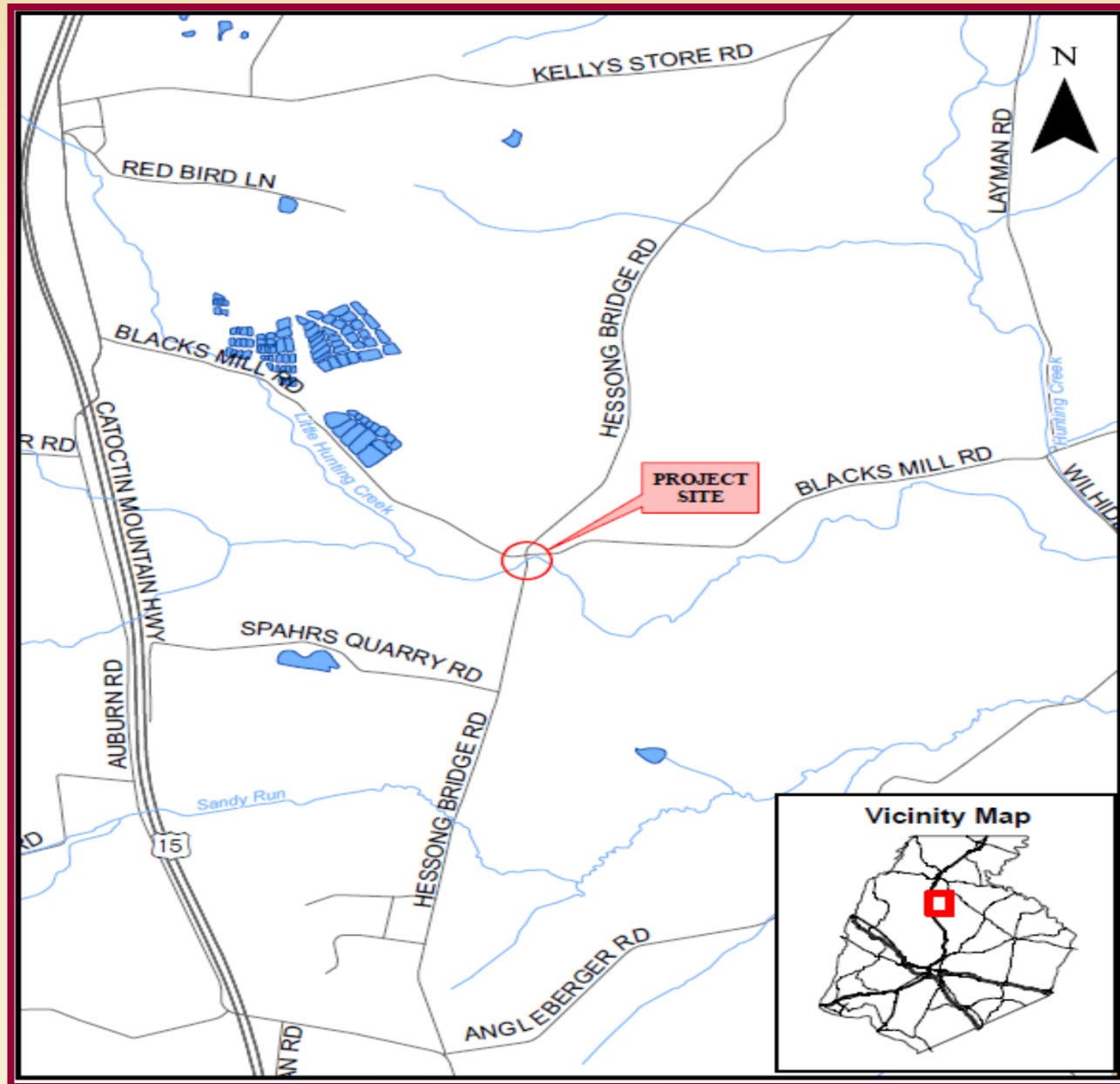
JENNIFER BOHAGER
PROJECT MANAGER

JASON STITT, P.E.
CHIEF

CRYSTAL CHAMBERLAIN
LAND ACQUISITION COORDINATOR

CONTACT INFORMATION PROVIDED IN HANDOUTS

BRIDGE PROJECT LOCATION MAP



MEETING AGENDA

- EXISTING BRIDGE BACKGROUND
- PROJECT OVERVIEW
- SCHEDULE AND BUDGET
- STUDY ELEMENTS
- CONCEPT DESIGNS
- MAINTENANCE OF TRAFFIC (M.O.T.)
- RIGHT-OF-WAY
- PUBLIC COMMENTS/QUESTIONS

EXISTING BRIDGE No. 15-01 BACKGROUND

THURMONT, MARYLAND



- **COUNTY CAPITAL IMPROVEMENT PROGRAM PROJECT (CIP)**
- **EXISTING BRIDGE (INSTALLED 1975)**
 - **1-LANE PREFABRICATED STEEL MODULAR TRUSS (ACROW) BRIDGE**
 - **65' (IN LENGTH) BY 11' 4" (WIDE), STEEL PLATED DECK**
 - **LOCATED OVER LITTLE HUNTING CREEK, JUST SOUTH OF BLACKS MILL ROAD INTERSECTION**
- **HESSONG BRIDGE ROAD — 2-WAY TRAFFIC, 2-LANE COLLECTOR ROAD**

PROJECT OVERVIEW

- **PROJECT GOAL: TO REPLACE THE 1-LANE ACROW BRIDGE WITH A NEW 2-LANE BRIDGE MEET MODERN TRAFFIC NEEDS AND STANDARDS**
 - DESIGN STORM
 - APPROACH ROADWAY IMPROVEMENTS
 - BICYCLE-COMPATIBILITY
 - LEGAL LOADS
- **TRAFFIC VOLUMES:**
 - 591 ADT (2015)
 - 620 ADT (2018, ESTIMATED)
- **CRASH HISTORY: NO DOCUMENTED CRASHES AT THE BRIDGE LOCATION FROM 2011-2015 (LATEST AVAILABLE CRASH DATA)**

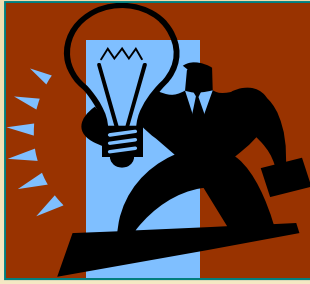


PROJECT SCHEDULE AND BUDGET

- **STUDY PHASE FY 2017 – 2018: HYDROLOGIC & HYDRAULIC (H&H) STUDY W/ ALTERNATIVES ANALYSIS REPORT**
 - **BUDGET: \$88,300**
- **DESIGN PHASE FY 2019 – 2021: BUDGET: \$213,100**
- **CONSTRUCTION PHASE FY 2021 – 2022: BUDGET: \$1,323,200**
- **FUNDING SOURCES**
 - **FEDERAL 80%/COUNTY 20%: DESIGN & CONSTRUCTION**
 - **COUNTY 100% FOR REMAINING PROJECT ACTIVITIES**

H & H REPORT STUDY ELEMENTS

- **HYDROLOGY/HYDRAULICS**
- **ROAD ALIGNMENT**
- **ROAD TYPICAL SECTION**
- **BRIDGE TYPE**
- **ENVIRONMENTAL IMPACTS**
- **MAINTENANCE OF TRAFFIC**
- **RIGHT-OF-WAY**
- **UTILITIES**



BRIDGE ALTERNATIVES (CONCEPT DESIGNS)

- **ALTERNATIVE 1: TWIN CELL CONCRETE BOX CULVERT**
- **ALTERNATIVE 2: SINGLE-SPAN PRESTRESSED CONCRETE SLAB**
- **ALTERNATIVE 3: SINGLE-SPAN PRESTRESSED CONCRETE BEAM**
- **ALTERNATIVE 4: SINGLE-SPAN STEEL BEAM**

ALTERNATIVE 1 – TWIN CELL CONCRETE BOX CULVERT



MOUNTVILLE ROAD

ALTERNATIVE 2 – PRESTRESSED CONCRETE SLAB PANEL BRIDGE



BALLENGER CREEK PIKE

ALTERNATIVE 3 – PRESTRESSED CONCRETE BEAM BRIDGE



TERRA FIRMA ROAD

ALTERNATIVE 4 – STEEL BEAM BRIDGE



WATER STREET ROAD

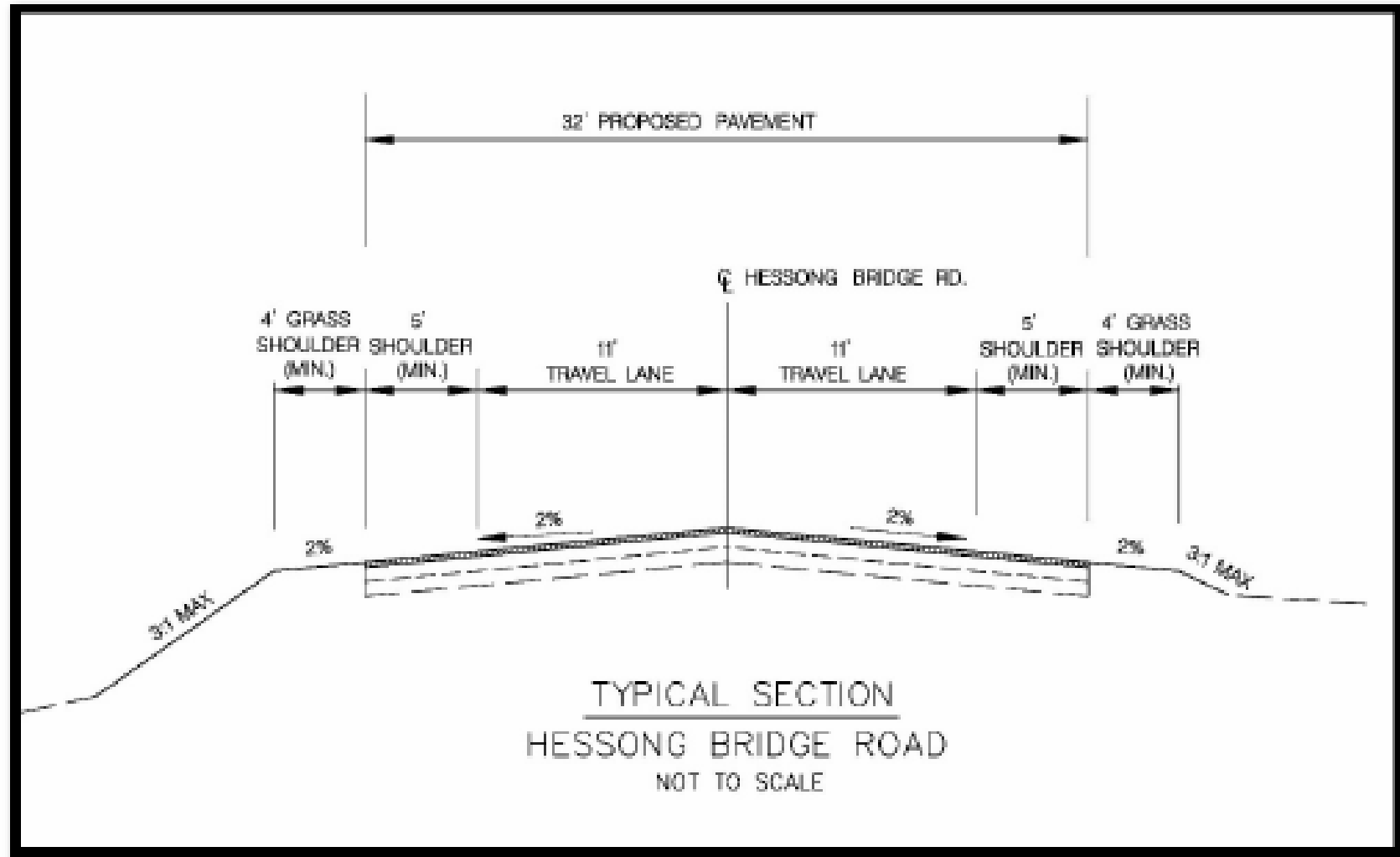
SELECTED CONCEPT DESIGN

**ALTERNATIVE 1 IS THE RECOMMENDED ALTERNATIVE
PER THE H & H STUDY:**

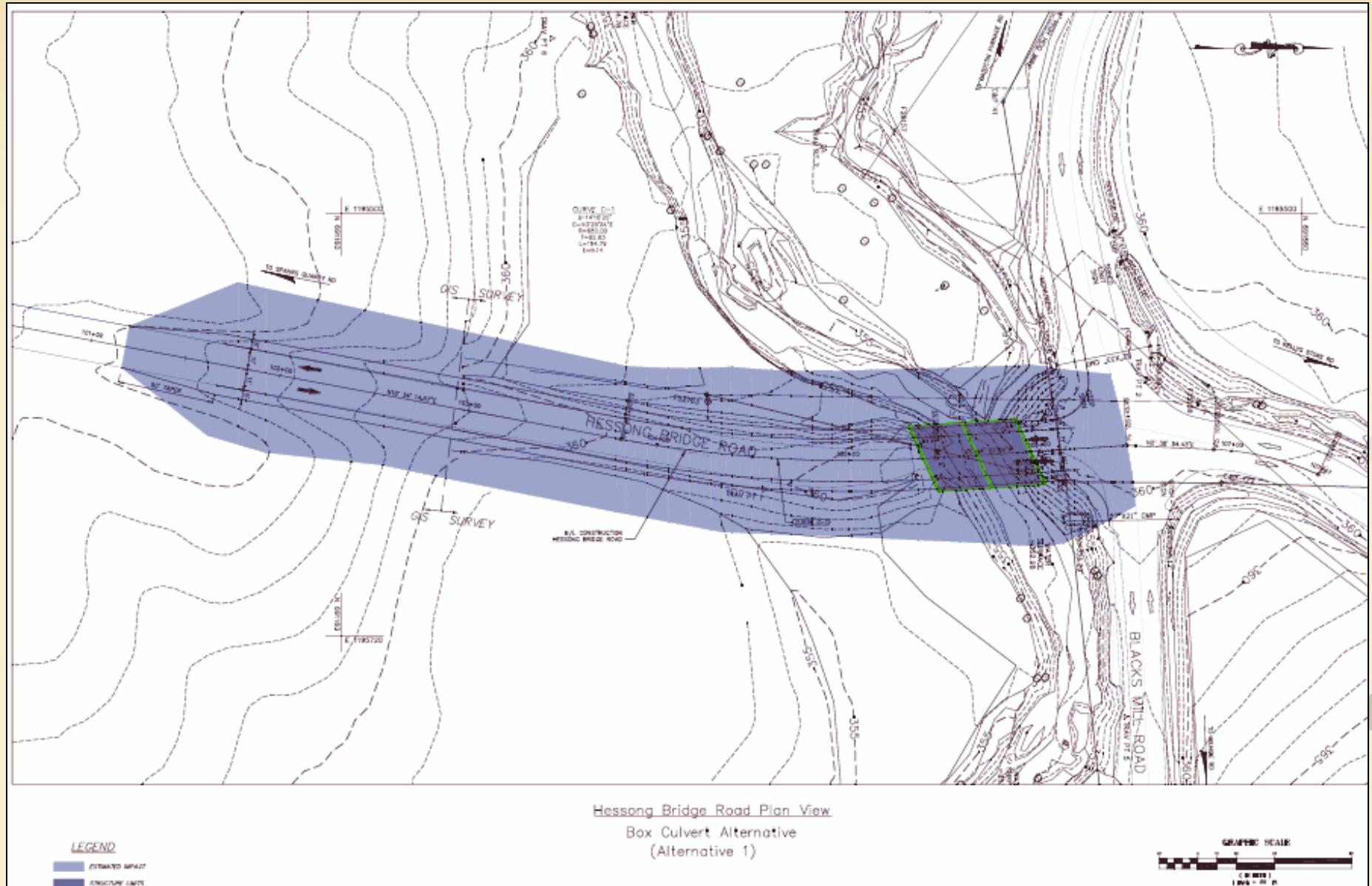


- **MINIMIZES DISTURBANCE AND IMPACTS**
- **WITHIN BUDGET**
- **ALLOWS FOR FUTURE IMPROVEMENTS TO HESSONG BRIDGE ROAD WITH MINOR ROADWAY ALIGNMENTS ON APPROACHES, PARTICULARLY ON THE NORTH SECTION**

ALTERNATIVE 1 – PROPOSED TYPICAL SECTION

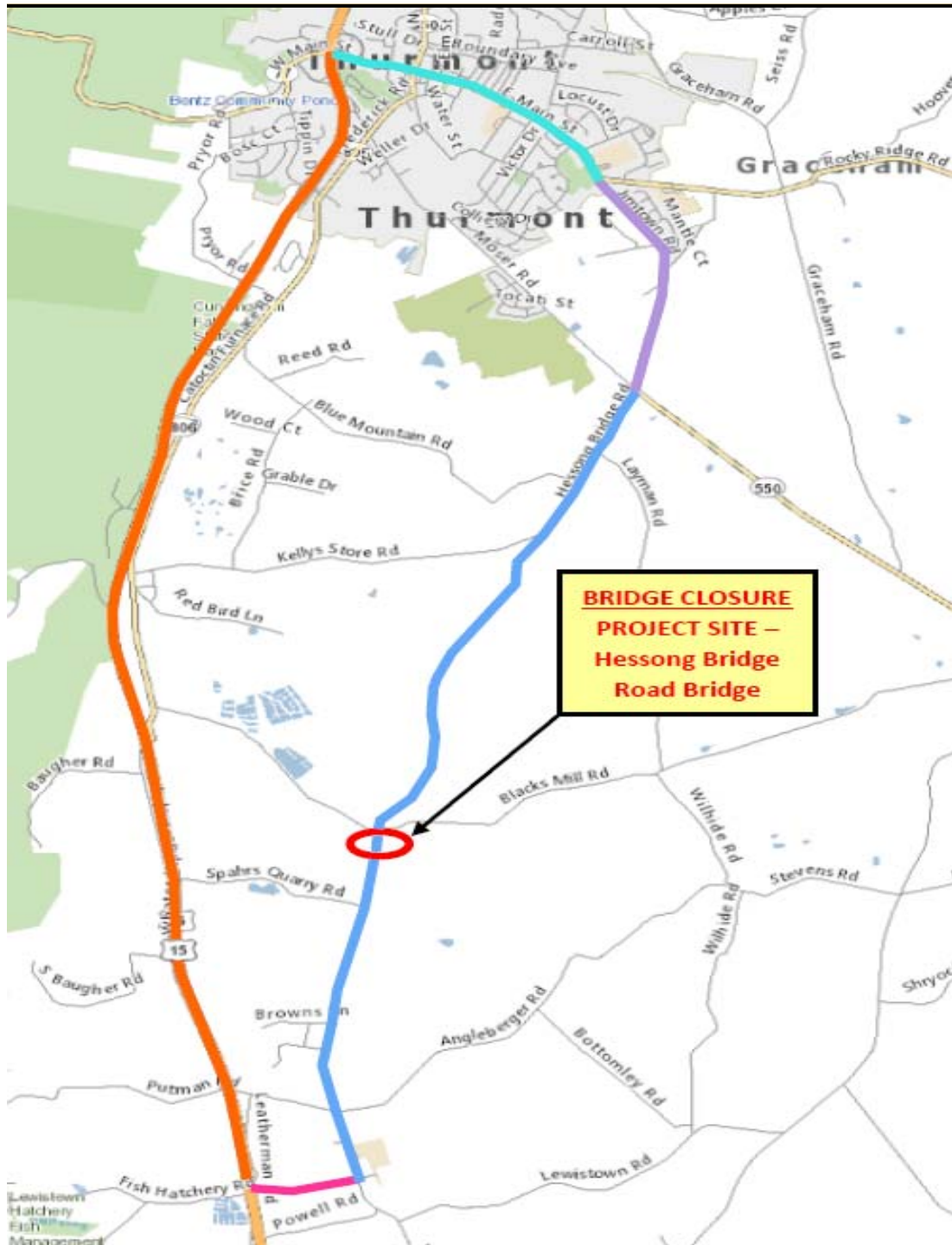


ALTERNATIVE 1 – CONCEPT BRIDGE PLAN VIEW



MAINTENANCE OF TRAFFIC

- **H & H STUDY SUGGESTS AND RECOMMENDS USING A DETOUR:**
 - MAXIMIZES SAFETY FOR MOTORISTS AND WORKERS
 - LOW TRAFFIC VOLUMES
 - MINIMIZES IMPACTS
 - CONSTRUCTABILITY AND MOT
 - COST EFFECTIVE
- **DETOUR COORDINATION:**
 - STATE HIGHWAY ADMINISTRATION
 - EMERGENCY SERVICES
 - FREDERICK COUNTY PUBLIC SCHOOLS
 - PUBLIC INPUT



SIGNED DETOUR ROUTE UTILIZES:

- **HESSONG BRIDGE
ROAD**
- **FISH HATCHERY
ROAD**
- **U.S. 15 (CATOCTIN
MOUNTAIN HWY)**
- **MD 77 (EAST MAIN
STREET)**
- **MD 550 (JIMTOWN
ROAD)**

RIGHT-OF-WAY

- **4 POTENTIALLY IMPACTED PROPERTIES**
- **RIGHT-OF-WAY AND OTHER EASEMENT NEEDS ARE DETERMINED DURING FINAL DESIGN PHASE**
- **COORDINATION WITH IMPACTED PROPERTY OWNERS OCCURS THROUGHOUT THE DESIGN PROCESS**
- **AFTER RIGHT OF WAY NEEDS ARE DETERMINED, APPRAISALS ARE COMPLETED AND OFFERS ARE MADE**
- **RIGHT-OF-WAY HANDOUT IS AVAILABLE IF INTERESTED**

COMMENTS/QUESTIONS?

- **PLEASE BE SURE TO PUT YOUR COMMENTS IN WRITING!**
- **COMMENTS CAN BE PROVIDED TODAY OR BY APRIL 20, 2018**
- **MEETING MINUTES FROM THIS MEETING, INCLUDING COMMENTS AND RESPONSES, WILL BE ISSUED TO EVERYONE ON THE SIGN-IN SHEET**

THANK YOU FOR YOUR TIME