

BRANDYWINE ROAD BRIDGE REPLACEMENT PROJECT

PUBLIC INFORMATION MEETING PRESENTATION



Prince
George's
county MARYLAND

Angela D. Alsobrooks
County Executive



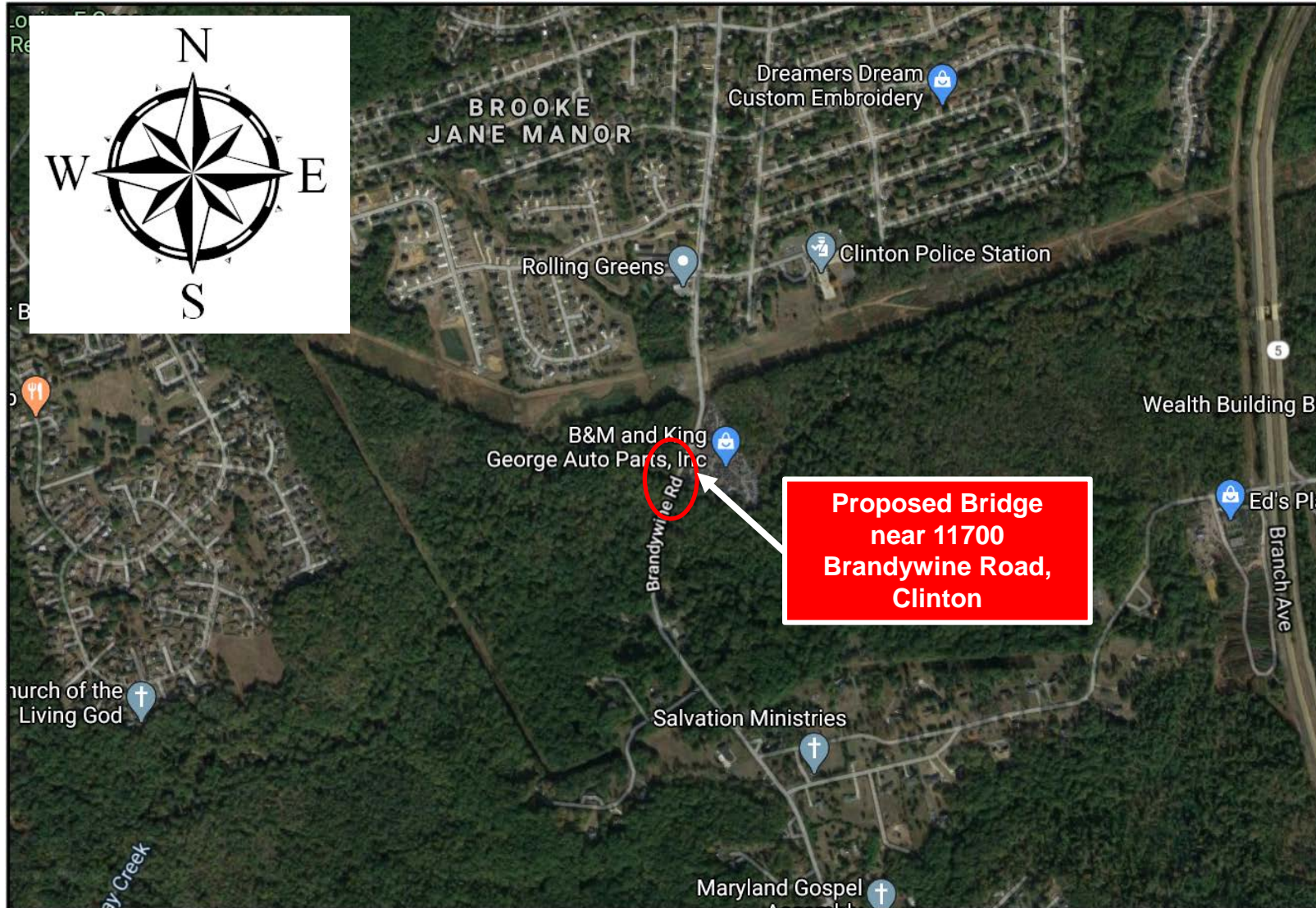
October 20, 2020

Terry L. Bellamy
DPW&T Director

- ◆ Purpose of Meeting
- ◆ Existing Conditions
- ◆ Proposed Conditions
- ◆ Environmental Impact
- ◆ Short Q&A Session

BRANDYWINE ROAD BRIDGE REPLACEMENT PROJECT





◆ Existing Bridge

- 54' Overall Length, 36'-4" wide with 3' Sidewalk on west side
- Originally built in 1955 and then widened in 1989
- Bridge Sufficiency Rating is 43 out of 100

◆ Existing Roadway

- Open Section with 11'+ lane in each direction
- Roadway posted speed limit of 35 mph

◆ Existing Hydraulics/Drainage

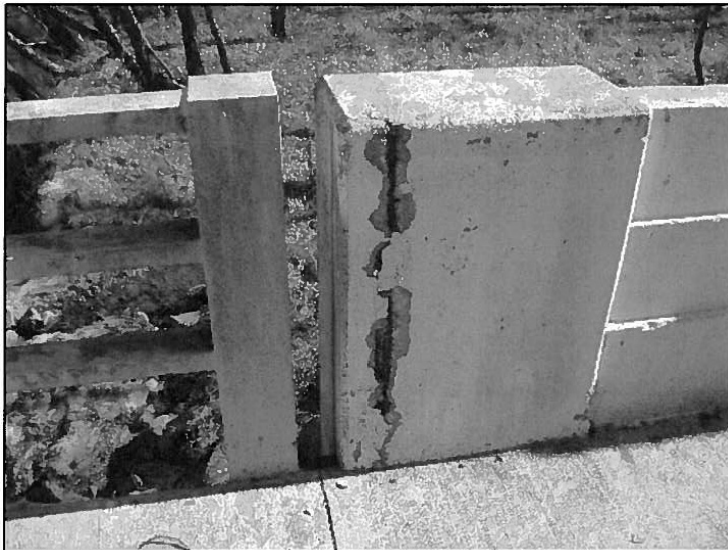
Storm Event	Water Surface Elevation	Low Point Road Elevation	Water Depth Over Roadway
10 year	96.11	95.92	0.19'
100 year	97.46		1.54'



3. East (Upstream) Elevation.



2. South Approach Looking North.



10. Exposed reinforcing steel in the roadway face of the Southeast Endpost.



4. West (Downstream) Elevation.

Existing Conditions

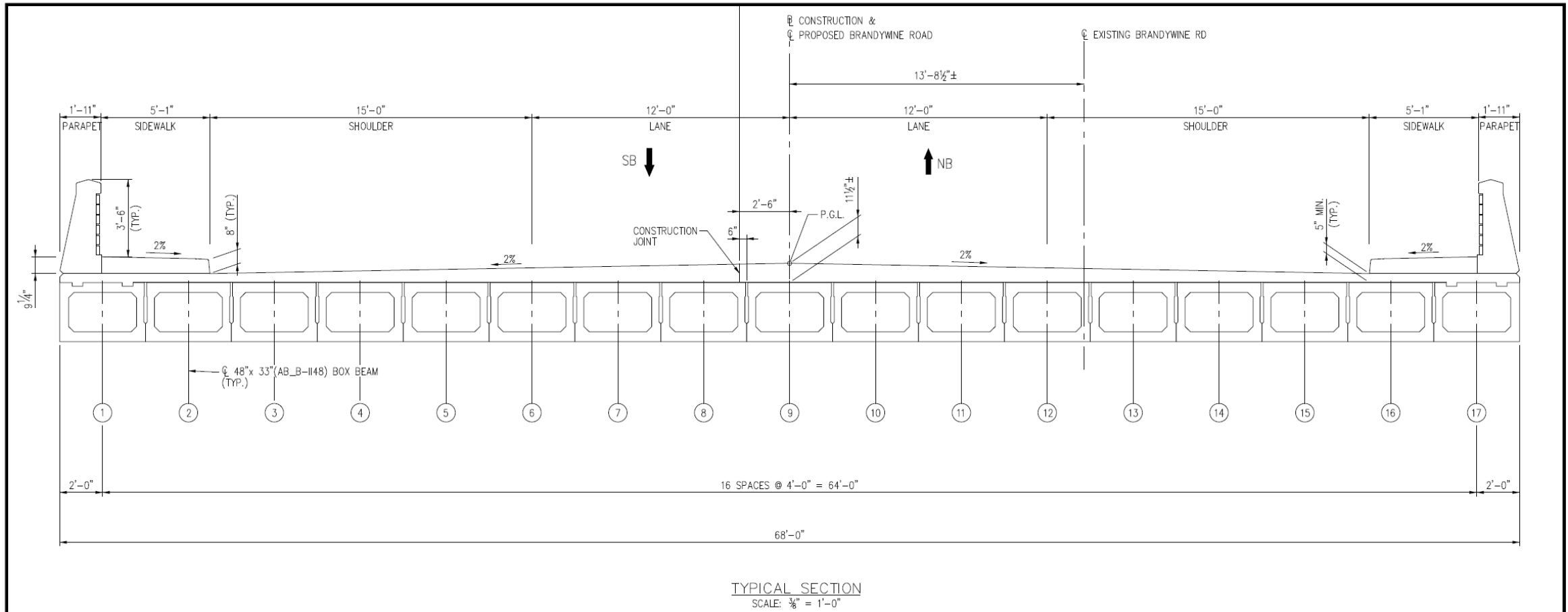


Existing Conditions

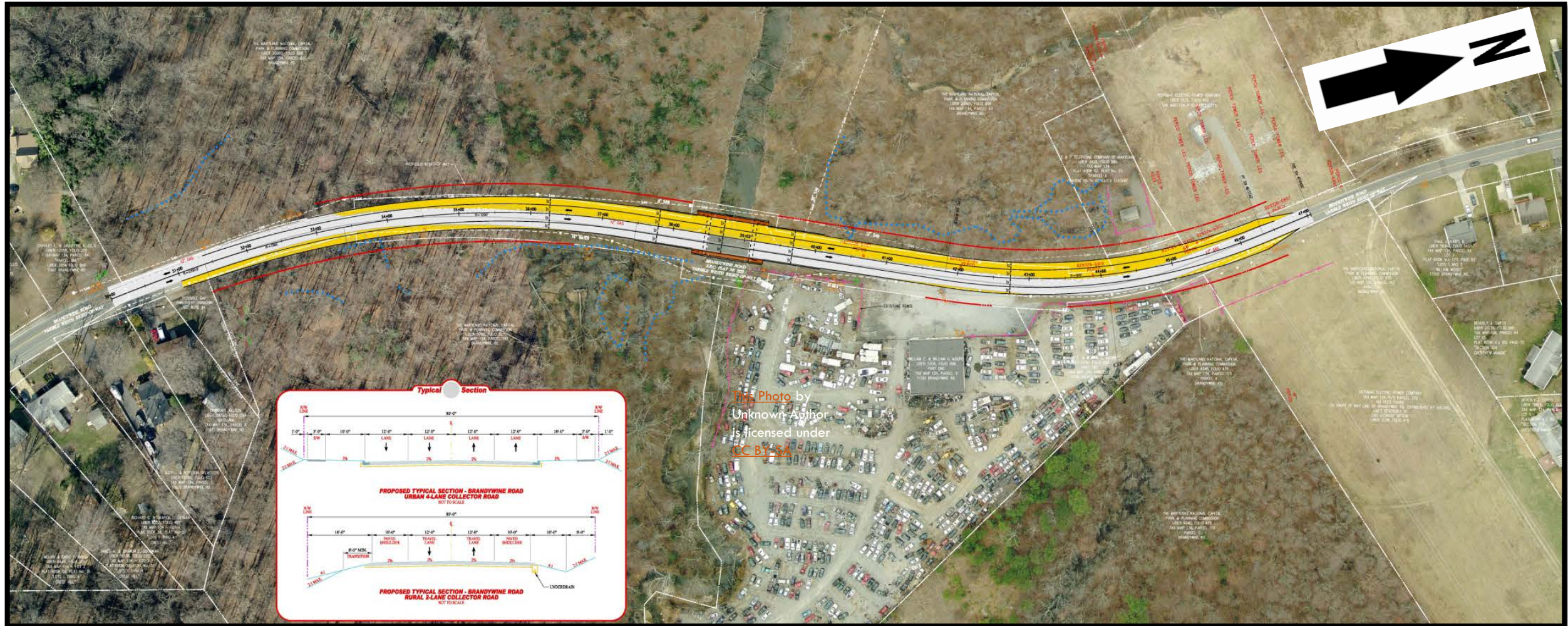


Proposed Bridge and Roadway

- ◆ The overall bridge length is 70 foot with a 54-foot wide deck and a 5-foot, 1-inch wide sidewalk on both sides
- ◆ The bridge is made up of 17 Prestressed Concrete Box Beams
- ◆ The roadway is closed section with a 12-foot lane and a 15-foot shoulder and bike lane on both sides
- ◆ The bridge will now be able to pass a 100-year storm

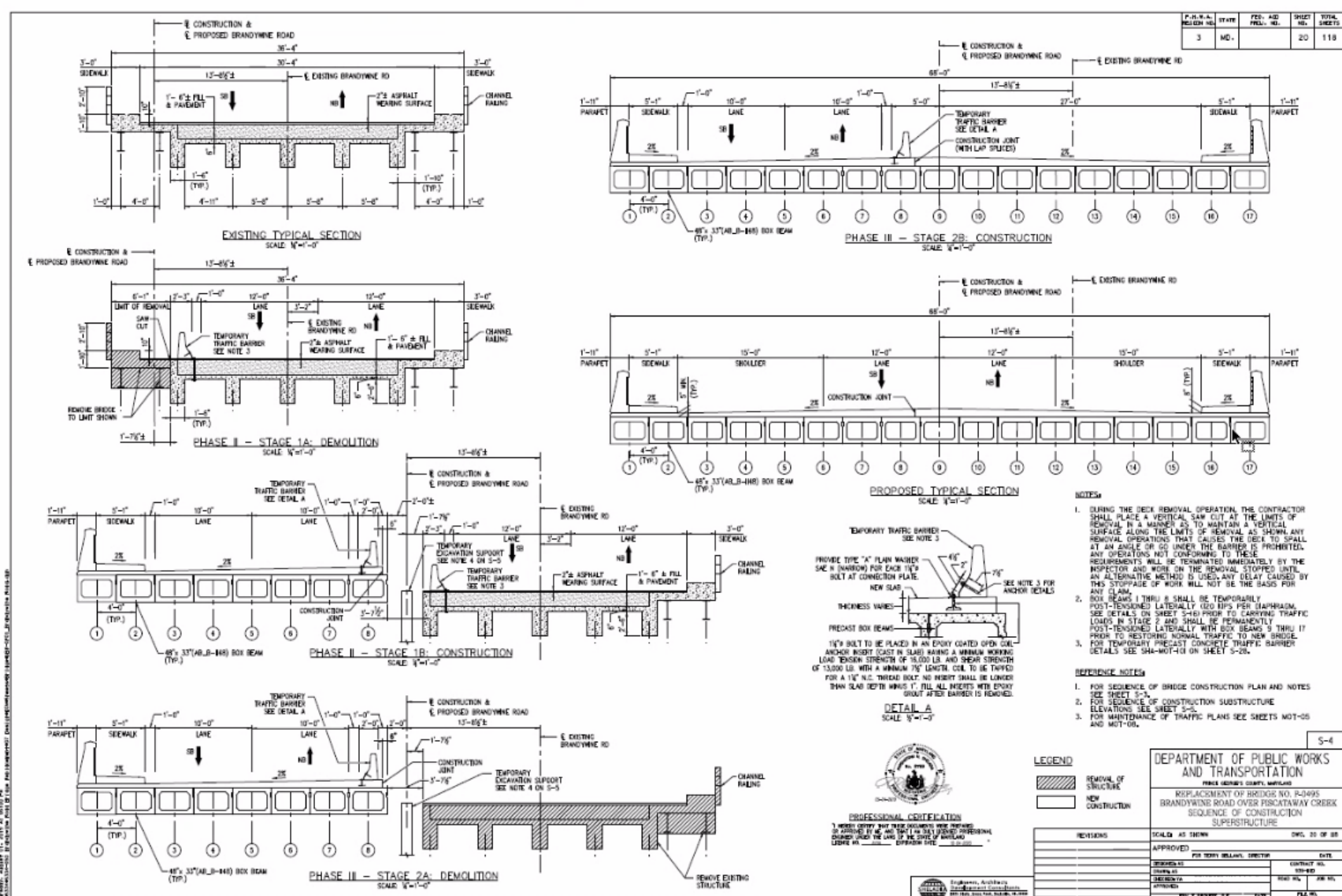


ROADWAY ALIGNMENT



CONSTRUCTION STAGING

P.O. No.	STATE	PER. NO.	SHEET NO.	TOTAL SHEETS
3	MD		20	118



EXISTING TYPICAL SECTION
SCALE: 1/4"=1'-0"

PHASE II - STAGE 1A: DEMOLITION
SCALE: 1/4"=1'-0"

PHASE II - STAGE 1B: CONSTRUCTION
SCALE: 1/4"=1'-0"

PHASE II - STAGE 2A: DEMOLITION
SCALE: 1/4"=1'-0"

PHASE II - STAGE 2B: CONSTRUCTION
SCALE: 1/4"=1'-0"

PROPOSED TYPICAL SECTION
SCALE: 1/4"=1'-0"

DETAIL A
SCALE: 1/4"=1'-0"

NOTES

- DURING THE DECK REMOVAL OPERATION, THE CONTRACTOR SHALL PLACE A VERTICAL SAW CUT AT THE LIMITS OF REMOVAL IN A MANNER AS TO MAINTAIN A VERTICAL SURFACE ALONG THE LIMITS OF REMOVAL AS SHOWN ANY REMOVAL OPERATIONS THAT CAUSES THE DECK TO SPALL AT AN ANGLE OR GO UNDER THE BARRIER IS PROHIBITED. ANY OPERATIONS NOT CONFORMING TO THESE REQUIREMENTS WILL BE TERMINATED IMMEDIATELY BY THE INSPECTOR AND MORE ON THE REMOVAL STOPPED UNTIL AN ALTERNATIVE METHOD IS USED. ANY DELAY CAUSED BY THIS STOPPAGE OF WORK WILL NOT BE THE BASIS FOR ANY CLAIM.
- BOX BEAMS 1 THRU 8 SHALL BE TEMPORARILY POST-TENSIONED LATERALLY (200 PPS PER DIAPHRAGM. SEE DETAILS ON SHEET 5-4 PRIOR TO CARRYING TRAFFIC LOADS IN STAGE 2 AND SHALL BE PERMANENTLY POST-TENSIONED LATERALLY WITH BOX BEAMS 9 THRU 17 PRIOR TO RESTORING NORMAL TRAFFIC TO NEW BRIDGE.
- FOR TEMPORARY PRECAST CONCRETE TRAFFIC BARRIER DETAILS SEE SHEET 5-20.

REFERENCE NOTES

- FOR SEQUENCE OF BRIDGE CONSTRUCTION PLAN AND NOTES SEE SHEET 5-3.
- FOR SEQUENCE OF CONSTRUCTION SUBSTRUCTURE ELEVATIONS SEE SHEET 5-5.
- FOR MAINTENANCE OF TRAFFIC PLANS SEE SHEETS 5-105 AND 5-107.

LEGEND

- REMOVAL OF STRUCTURE
- NEW CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
PRINCE GEORGES COUNTY, MARYLAND
REPLACEMENT OF BRIDGE NO. 10-0495
BRANDYWINE ROAD OVER ROCKYCRAWF CREEK
SEQUENCE OF CONSTRUCTION
SUPERSTRUCTURE

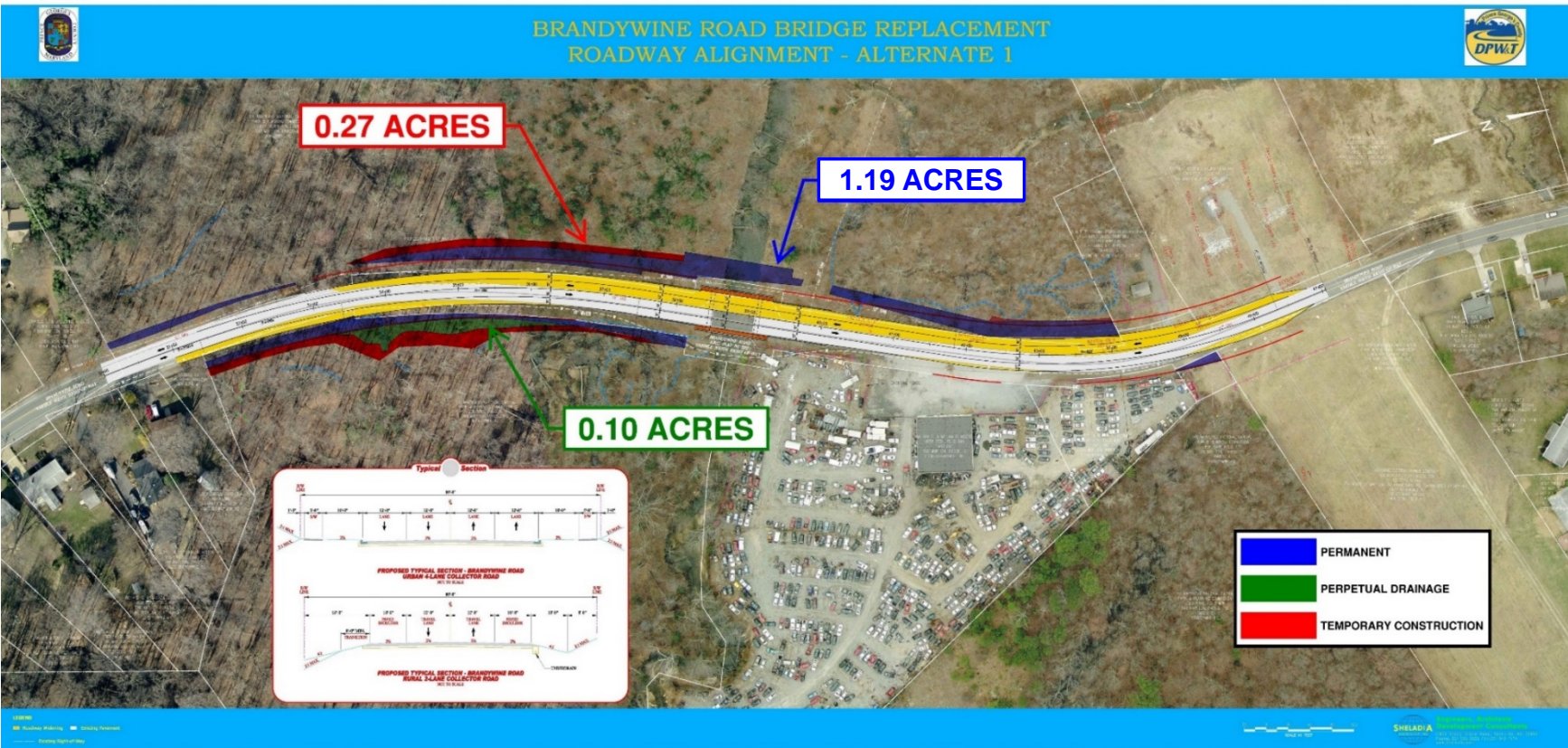
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAW OF THE STATE OF MARYLAND.

REVISIONS

NO.	DESCRIPTION	DATE

SCALE AS SHOWN
APPROVED
DATE
FOR TERRY BELLAMY, DIRECTOR
DATE
BY TERRY BELLAMY
DATE

Property Impacts to M-NCPPC Property



Fee Simple Right-of-Way

- 1.19 acres

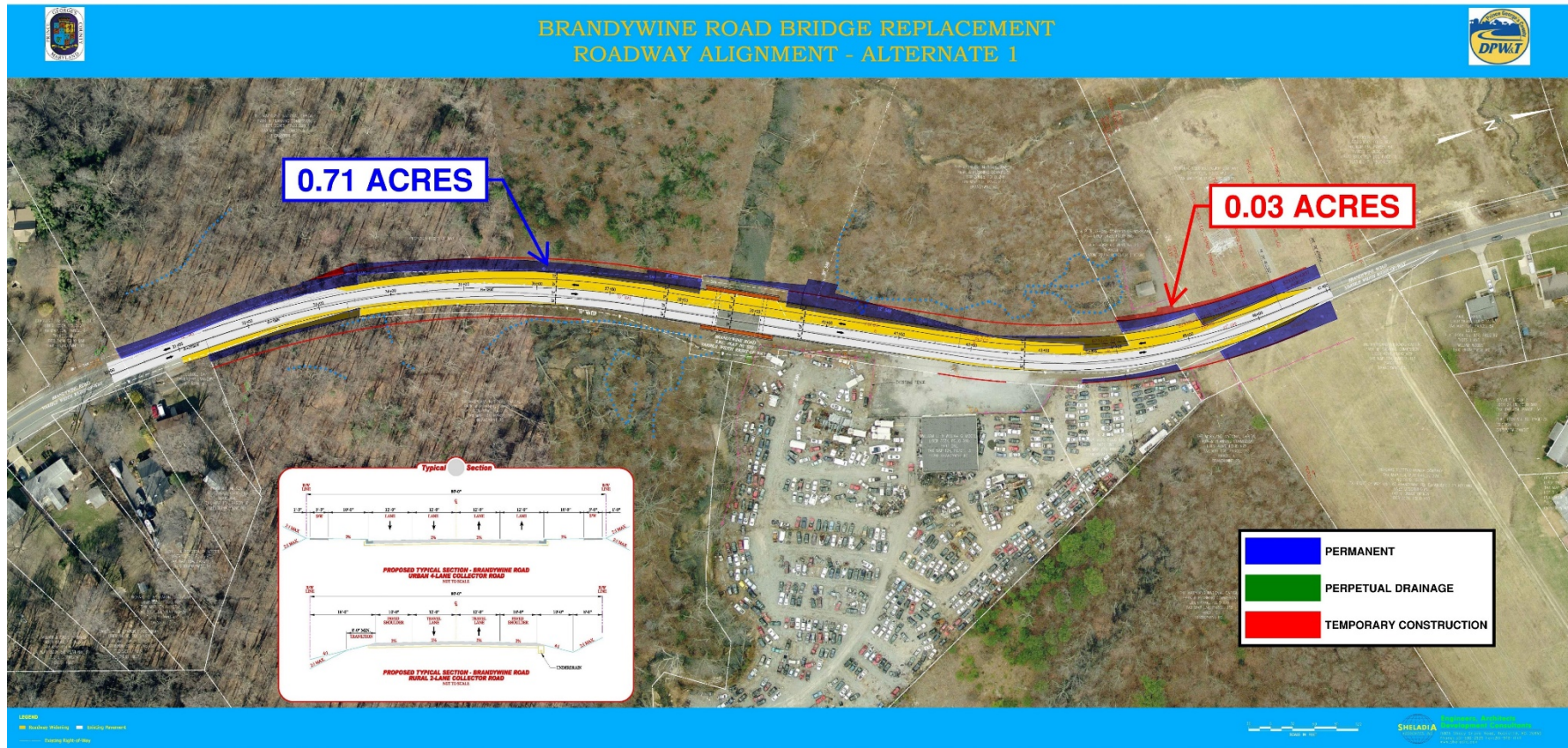
Perpetual Drainage Easement

- 0.10 acres

Temporary Construction Easement

- 0.27 acres

Property Impacts to Other Properties



Fee Simple Right-of-Way

- 0.71 acres

Temporary Construction Easement

- 0.03 acres

COMPLETE DESIGN	Mid 2021
RIGHT-OF-WAY ACQUISITION	Mid 2021
ADVERTISE FOR CONSTRUCTION	Mid 2021
BEGIN CONSTRUCTION	Late 2021

POINTS OF CONTACT DURING DESIGN:

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Chief, Highway and Bridge Design Division

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DPW&T Project Manager

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Brandywine Road Bridge Replacement Project



prince
George's
county

MARYLAND

Department of Public Works and Transportation



Angela D. Alsobrooks
County Executive

Terry L. Bellamy
DPW&T Director

Thank You!