SR 252 Section DSR
PA 252 (Palmers Mill Road Bridge) over Springton Reservoir
Bridge Replacement Project

Presented by
Pennsylvania Department of Transportation
Gannett Fleming, Inc.
Purpose of Presentation

• Update the community on the Springton Dam Bridge Replacement
• Share response to community concerns
Project Description

• Replace bridge over spillway and roadway barrier along NB shoulder/length of dam

• Maintain 2 lanes of traffic during construction

• Provide temporary roadway and bridge for staged construction

• Provide permanent retaining wall for construction staging and future maintenance activities
Existing Bridge Approach

- View traveling Southbound
Existing Bridge Approach

- View traveling Northbound
Existing Bridge Elevation

- **42' SPAN (ALONG C ROADWAY)**
- **22'-10" VERTICAL CLEARANCE**
- **BRIDGE ABUTMENT**
- **SPILLWAY INVERT**
- **SPILLWAY TRAINING WALL**
Existing Section

EXISTING TYPICAL BRIDGE & ROADWAY SECTION
Proposed Bridge Section

PROPOSED TYPICAL SECTION

PA BULB-TEE BEAM 33/79.5 (TYP.)

4 SPA ø 10'-6" = 42'-0"

12" DIA. GAS LINE

5'-3"

OUT-TO-OUT

52'-6"

VARIABLES

12'-8'/4" TO 12'-11'/2"

LANE

12'-0"

LANE

12'-0"

VARIABLES

12'-6" TO 12'-8'/4"

1'-6" (TYP.)

3'-6" (TYP.)

4.0%

2.0%

2.0%

4.0%

1'-0" (TYP.)

8" DECK SLAB (INCLUDES 1/2" INTEGRAL WEARING SURFACE)

P.G.L.
Proposed Roadway Section

ROADWAY SECTION - NORTH OF NEW BRIDGE

ROADWAY SECTION - SOUTH OF NEW BRIDGE
Proposed Bridge Elevation
Method of Construction

• Maintain one lane of vehicular traffic in each direction during construction
• Maintain access to local residences
Utility Coordination

- Aerial – Poles/wires relocated prior to, and during construction
  - PECO Electric, Comcast, Crown Castle, Verizon
- Underground
  - PECO Gas: new future line, partially installed during construction
  - Verizon: ductbank and manhole abandoned and removed
- Marple Township: traffic signal removed during construction, new signal provided to Township for its reinstallation
Stage 1 Construction

- Maintain one lane each way
- Upgrade shoulders
- Construct retaining wall, and temporary roadway and bridge
Stage 2 Construction

- Maintain one lane each way
- Shift NB traffic to temporary bridge
- Shift SB traffic to existing NB lane
- Replace west side of bridge
Stage 3 Construction

- Maintain one lane each way
- Shift SB and NB lanes to new portion of bridge
- Replace east side of existing bridge and roadway barrier along length of dam
Stage 3 Construction

- Maintain one lane each way
- Shift SB and NB lanes to new portion of bridge
- Replace east side of existing bridge and roadway barrier along length of dam
- Temporary traffic signal at PA 252 and Palmers Mill Road intersection
Aesthetics

Existing Bridge Barrier
Aesthetics-Bridge Barrier

Stone-Faced Barrier
Aesthetics-Bridge Barrier

Proposed Concrete Bridge with Stone-Faced Barrier
Retaining Wall

NEW RETAINING WALL

RETAINING WALL ELEVATION ALONG FRONT FACE
Existing Condition
Existing Condition

New Retaining Wall Rendering
(Large-Scale Random Ashlar Stone)
Project Schedule

Project Let: October 4, 2018

Contractor: J D Eckman, Inc.

Construction NTP: November 19, 2018

Construction Completion Date: Oct 18, 2021
Questions?