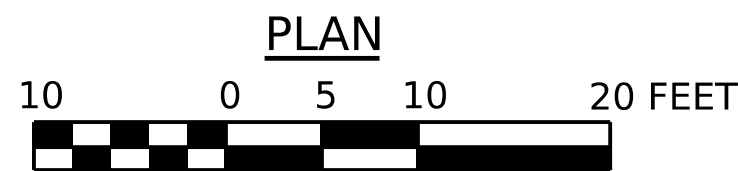
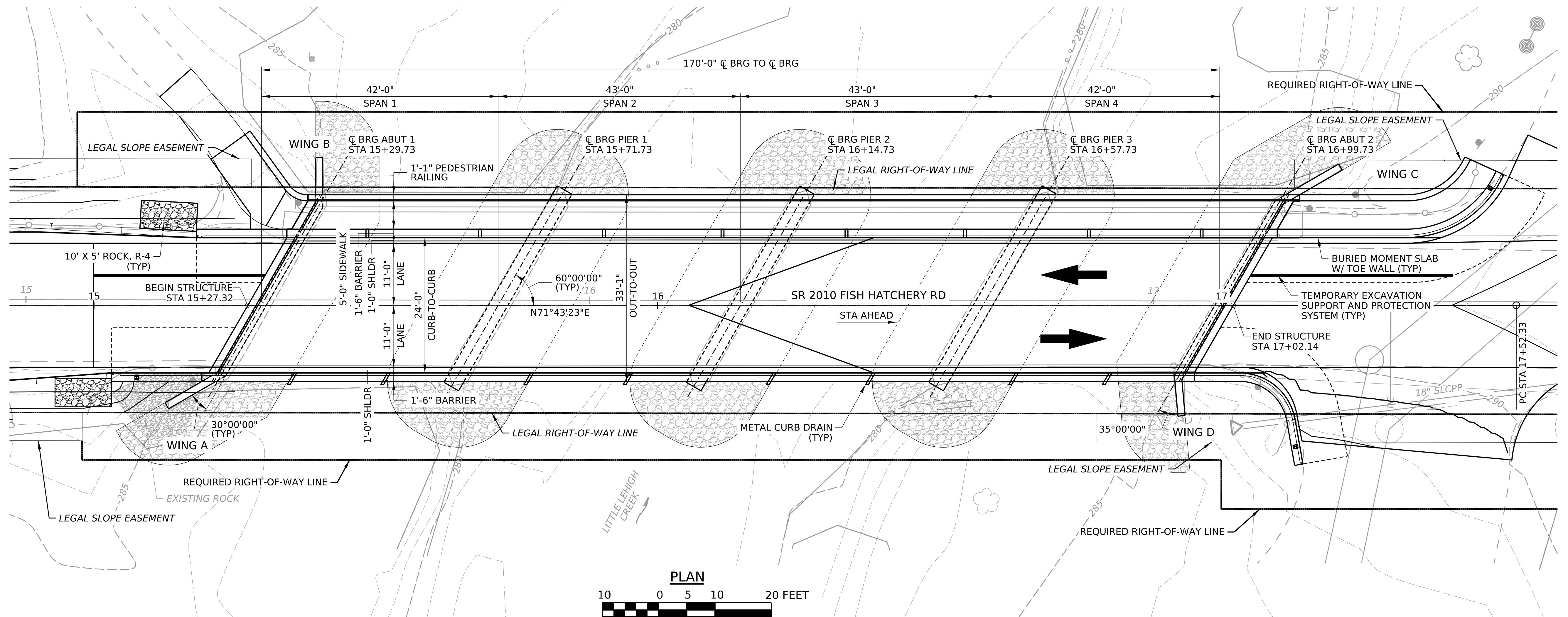
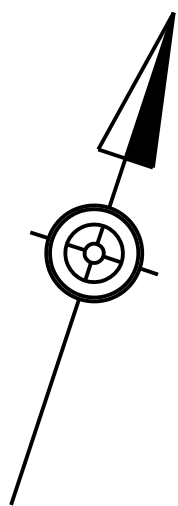
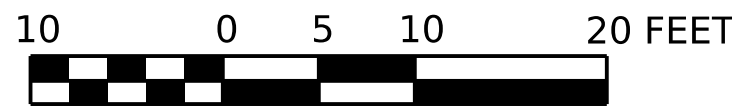
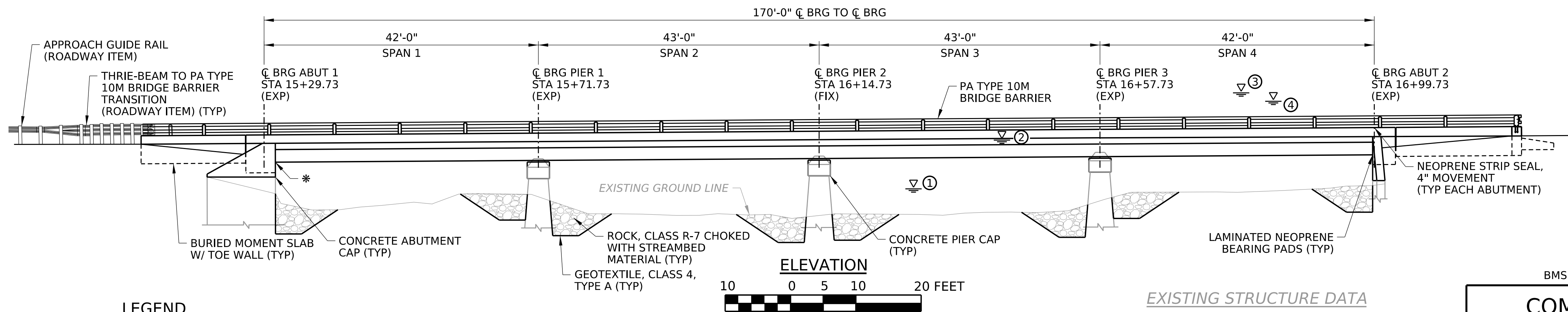


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Model: Default
4/30/2025 9:51:41 AM By:matthew.harrison



PLAN



ELEVATION

HYDRAULIC DATA

DRAINAGE AREA 80.3 SQ MILES
Q₁₀ FLOW 6,143 CFS
Q₁₀ ELEV 287.75
Q₁₀ VEL 7.1 FPS

PENNDOT/CALCULATED
Q₁₀₀ FLOW 19,380 CFS
Q₁₀₀ ELEV 294.99
Q₁₀₀ VEL 4.9 FPS

FEMA
Q₁₀₀ FLOW 15,600 CFS
Q₁₀₀ ELEV 293.96
Q₁₀₀ VEL 4.5 FPS

FLOOD OF RECORD = UNKNOWN

LEGEND

- TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM
- EXISTING 1' CONTOURS
- EXISTING 5' CONTOURS
- PROPOSED UNDERCLEARANCE
6'-3"± REQ'D, 6'-9"± PROVIDED
- PROPOSED LOW CHORD ELEVATION
286.02' REQ'D, 286.53' PROVIDED
- NORMAL WATER ELEVATION 280.27
- Q₁₀ ELEVATION
- Q₁₀₀ ELEVATION (FEMA)
- Q₁₀₀ ELEVATION (PENNDOT/CALCULATED)

HORIZONTAL CURVE DATA

SR 2010
ON TANGENT

DESIGN DESIGNATION

HIGHWAY CLASSIFICATION =
LOCAL ROAD, URBAN
DESIGN SPEED = 35 MPH
ADT (2027) = 7,401
ADT (2047) = 8,096
TRUCK % = 3

VERTICAL CURVE DATA

SR 2010

PVI STA = 15+20.00
ELEV = 289.37
VC = 110'
MO = 0.14'
HLSD = >250'

STA 15+75.00
ELEV 289.78

STA 17+25.00
ELEV 290.87

PVI STA = 17+95.00
ELEV = 291.38
VC = 140'
MO = 0.22'
HLSD = >250'

EXISTING STRUCTURE DATA

4 SPAN ROLLED STEEL I-BEAM
SPAN: 4 SPANS AT 43'-0" EACH
ROADWAY: 23'-8 1/4" CURB-TO-CURB
SIDEWALK: 5'-0"
VERT CLR: 6'-3"±
SKEW: 60°00'00"

CDR MAGUIRE
3500 Winchester Road
Suite 300
Allentown, PA 18104
phone:610-841-2700
fax:610-841-2709

BRAD D. BARNDT P.E. NO 057420

NOTES:

- SEE SHEET 2 - 4 FOR TYPICAL SECTIONS.

SCOPE OF WORK:

- INSTALL TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM
- REMOVE EXISTING SUPERSTRUCTURE USING STAGED CONSTRUCTION.
- REPOINT EXISTING STONE MASONRY.
- INSTALL NEW CONCRETE CAPS ON EXISTING ABUTMENTS AND PIERS.
- CONSTRUCT NEW CONTINUOUS STEEL BEAM SUPERSTRUCTURE.
- CONSTRUCT NEW MOMENT SLABS WITH BARRIER TRANSITIONS.
- INSTALL 3/8" EPOXY OVERLAY ON NEW BRIDGE DECK.

SR 2010 PREVIOUSLY KNOWN AS LR 39109
BMS STR ID: 39-2010-0010-1551 ECMS PROJ: 119933 BRKEY: 23271

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

LEHIGH COUNTY
SR 2010 SECTION 01B
SEGMENT 0010 OFFSET 1551
SR 2010 STA 16+14.73
OVER LITTLE LEHIGH CREEK
4 SPAN SUPERSTRUCTURE REPLACEMENT
TYPE, SIZE & LOCATION - PLAN & ELEVATION

RECOMMENDED _____

DISTRICT BRIDGE ENGINEER

SHEET 1 OF 4

S-XXXXX