

BENCHMARK DATA

BM #1, IPF, STA. 10+43.26, OFFSET 12.67' LEFT, ELEV. = 906.40
BM #2, IPF, STA. 15+01.16, OFFSET 12.21' RIGHT, ELEV. = 903.22
BM #3, IPF, STA. 18+98.99, OFFSET 14.27' LEFT, ELEV. = 902.52

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

2016 ADT = 540	2016 ADTT = 38
2036 ADT = 550	2036 ADTT = 39
DIRECTIONAL DISTRIBUTION = 53%	

LEGEND

- ◆ APPROXIMATE BORING LOCATION
- CFCC = CARBON FIBER COMPOSITE CABLE

HYDRAULIC DATA

DRAINAGE AREA = 2.81 SQ. MILES	SPILLWAY ELEV. = 910.50
TOP OF DAM ELEV. = 925.50	

PROPOSED WORK

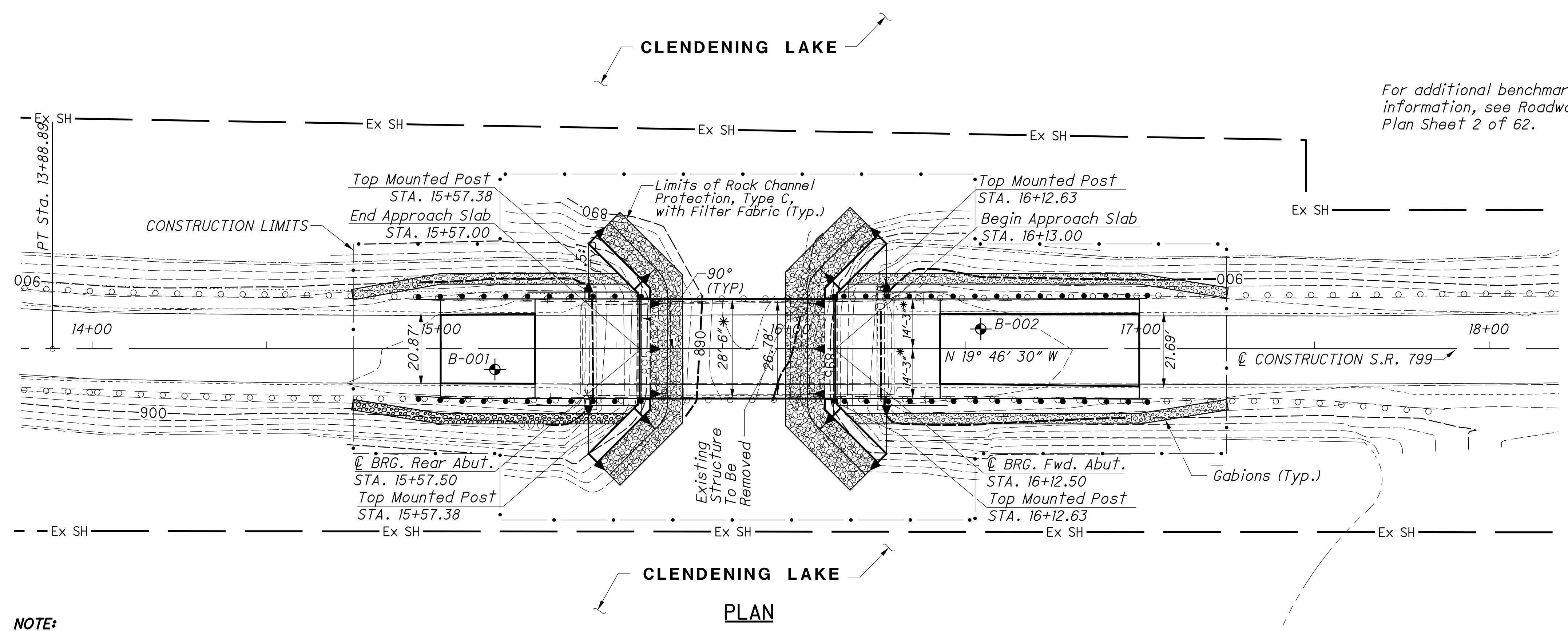
1. REMOVE EXISTING WEARING SURFACE, RAILING, BOX BEAMS, ABUTMENTS, PIER CAPS, AND PORTIONS OF EXISTING PIER PILES.
2. CONSTRUCT NEW ABUTMENTS AND WINGWALLS.
3. INSTALL NEW ABUTMENT BEARINGS.
4. SET BOX BEAMS WITH WATERTIGHT RUBBER SEALS AT ALL DUCT LOCATIONS, AS WELL AS 4"x4"x1" PLYWOOD SPACERS AT LOCATIONS IN PLANS.
5. INSTALL STRANDS IN DUCTS FOR POST-TENSIONING, GROUT JOINTS/ SHEAR KEYS AND ALLOW TO COME TO STRENGTH BEFORE POST-TENSIONING BEAMS.
6. FULLY POST-TENSION TRAVERSELY AT ALL DIAPHRAGM LOCATIONS, GROUT THE DUCTS.
7. CONSTRUCT THE DECK SLAB, ABUTMENT ABOVE THE BRIDGE SEAT AND APPROACH SLABS.
8. INSTALL TWIN TUBE RAILING.
9. SEAL ALL CONCRETE SURFACES.

EXISTING STRUCTURE

TYPE: PRESTRESSED CONCRETE BOX BEAMS ON CAPPED PILE ABUTMENTS AND PIERS
 SPANS: 24'-0", 33'-0", 24'-0" C/C BEARINGS
 ROADWAY: 26'-8" F/F SAFETY CURB
 LOADING: HS20-44 SKEW: NONE
 WEARING SURFACE: 2 3/4" ASPHALT CONCRETE
 APPROACH SLABS: NONE ALIGNMENT: TANGENT
 CROWN: 3/16" PER FOOT DATE BUILT: 1983
 STRUCTURAL FILE NUMBER: 3403173
 DISPOSITION: STRUCTURE TO BE REPLACED

PROPOSED STRUCTURE

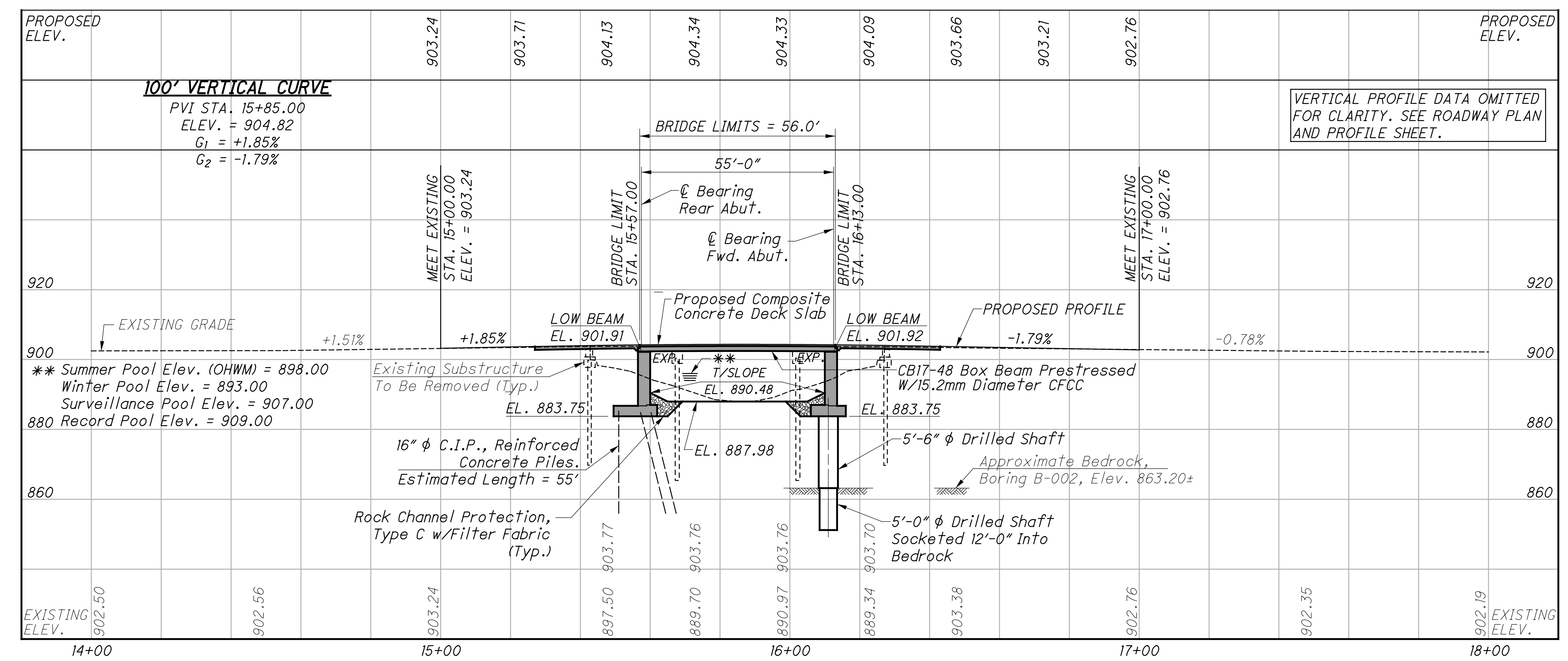
TYPE: SINGLE SPAN PRESTRESSED CONCRETE COMPOSITE BOX BEAMS WITH CFCC STRANDS, TRANSVERSELY POST-TENSIONED, WITH SEMI-INTEGRAL WALL TYPE ABUTMENTS SUPPORTED ON CAST-IN-PLACE PILES AND DRILLED SHAFTS
 SPANS: 55'-0" C/C BEARINGS
 ROADWAY: 28'-6" F/F GUARDRAIL TOE/TOE PARAPET
 LOADING: HL-93 AND 60 PSF FUTURE WEARING SURFACE
 SKEW: NONE
 WEARING SURFACE: MONOLITHIC CONCRETE
 APPROACH SLABS: 30'-0" LONG (AS-1-81)
 ALIGNMENT: TANGENT CROWN: 3/16" FT/FT
 DECK AREA: 1,568 SQ.FT.
 COORDINATES: LATITUDE 40°14'45.83"N LONGITUDE 81°12'07.62"W



PLAN

NOTE:
The pool elevations are maintained by USACE, Huntington District, by controlling the flow at the outlet or spillway. The Contractor is responsible for coordinating construction activities with the owner.

* Includes 1" gap between beams for post-tensioning



PROFILE ALONG ϕ SURVEY AND ϕ CONSTRUCTION S.R. 799

SITE PLAN
BRIDGE NO. HAS-799-0380 OVER CLENDENING LAKE
STA. 15+57.00 TO STA. 16+13.00

HAS-799-0380

MODEL: Sheet PAPER: 34x22 (in.) DATE: 2/9/2022 TIME: 3:47:29 PM USER: tpeffros
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SFN	3410000
DESIGN AGENCY	LJB Inc., 2500 Newmark Dr., Miami, OH 45342
AMM	AMT
REVIEWER	DWS 12-15-16
PROJECT ID	91603
SUBSET	TOTAL
1	21
SHEET	TOTAL
24	59