



- NOTES:**
- 1). THRIE-BEAM GUARDRAIL NOT SHOWN. SEE STANDARD NO. B-10 FOR MORE INFORMATION ON THRIE-BEAM CONNECTION.
  - 2). FOUNDATION NOT SHOWN. BUTTRESS SHALL BE CONSTRUCTED ON A FOOTING THAT MATCHES THE ADJACENT CONCRETE BARRIER FOOTING.
  - 3). CHAMFER ALL EXPOSED EDGES 3/4" x 3/4", UNLESS NOTED OTHERWISE.
  - 4). SEE SHEET 4 FOR BUTTRESS REINFORCEMENT DETAILS.

**DESIGNER NOTES:**

- 1). FOR BUTTRESS APPLICATIONS AT BRIDGE APPROACHES, BRIDGE DESIGNER SHALL MATCH GEOMETRY SHOWN ON THIS DETAIL FOR THRIE-BEAM ATTACHMENT. LENGTH SHOWN HERE IS MINIMUM LENGTH FOR THRIE-BEAM ATTACHMENT. BRIDGE DESIGNER IS RESPONSIBLE FOR REINFORCEMENT DESIGN AND CONNECTION TO WINGWALL OR SLEEPER SLAB.

TL-4

	 ENGINEERING SUPPORT 09/01/2020 DATE	THRIE-BEAM AGT TO CONCRETE BUTTRESS - 36" F-SHAPE TRANSITION			REVIEWED  DEPUTY DIRECTOR - DESIGN 09/01/2020 DATE
	RECOMMENDED	STANDARD NO. B-11 (2020)	SHT. 3 OF 8	APPROVED  CHIEF ENGINEER 09/01/2020 DATE	