BENT CAP SHEAR STRENGTHENING USING FRP WRAP

Notes:
- Design Force is the factored shear force \([1.1 \times DL + 0.75 \times (LL + I)]\) at any cross section in each design region that shall be resisted entirely by the Fiber Reinforced Polymer (FRP) wrap.
- See Special Provisions.

FRP WRAP AT INT. BENT NO.

PART ELEVATION

PART PLAN

Existing Column

Design Region

Existing Bearing

Existing Column Face (Typ.)

FPF System (Typ.)

Existing Column (Typ.)

Existing Bearing (Typ.)

Symm. opt. & Existing Bent except for beam height

Existing Bearing & Existing Column

Standard Drawing Guidance
(do not show on plans):
- Modify standard drawing details as required.
- Compute factored Design Force.
- Use pay item Fiber Reinforced Polymer Wrap, __sq. foot.

Add the following note to Expansion Bent Details:
- Protective Coating - Concrete Bents and Piers (Epoxy or Urethane) shall not be applied on the FRP system.

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