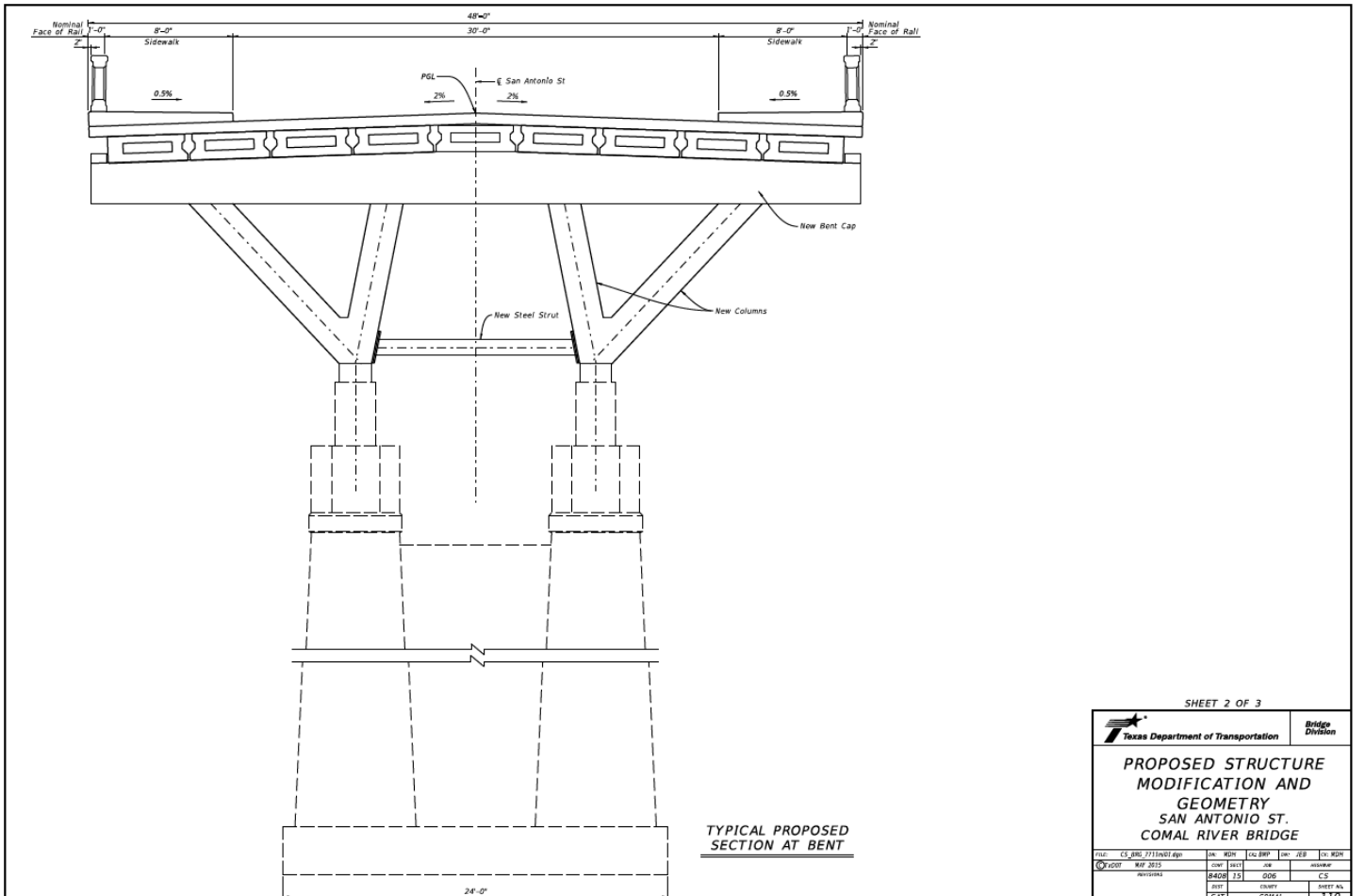


- 4 Existing expansion joints in bridge deck. Expansion joints in spandrel bay adjacent to pier only exist in spans 2 and 6 only. In spans 3, 4, and 6, saw cut deck full length at mid-bay location. Field verify that no existing bars and brackets re-entrant across expansion joints. Saw cut such bars/brackets prior to attempting section removal.
- 5 For Demolition Task 2, Install erection rigging as depicted in Section A-A and remove all slack in lifting rigging prior to saw cutting spandrels. Saw cut existing inner mid-span spandrels flush with top of arch. See General Notes for requirements for sawcutting and treatment.
- 6 Provide shoring towers with a service axial capacity of 45 kips and installed snug tight with existing arch directly beneath existing spandrel columns of both arches (4 total towers per arch span). Provide temporary footings with a maximum deflection of W (combined for tower and footing) under 22.5 kips of service load. Submit tower and footing support details to Engineer for approval.
- 7 For Demolition Task 4, Install erection rigging as depicted in Section A-A and remove all slack in lifting rigging prior to saw cutting spandrels. Saw cut existing quarter point spandrels flush with top of "capthal" treatment. See General Notes for requirements for sawcutting and treatment.
- 8 For Demolition Task 5, Install erection rigging as depicted in Section A-A and remove all slack in lifting rigging prior to saw cutting spandrels. Saw cut existing quarter point spandrels flush with top of "capthal" treatment. See General Notes for requirements for sawcutting and treatment.
- 9 For Demolition Task 6, Install erection rigging as depicted in Section A-A and remove all slack in lifting rigging prior to saw cutting spandrels. Include additional rigging to prevent rotation of single floorbeam section. Saw cut existing pier spandrels flush with top of "capthal" treatment.
- 10 For Demolition Task 7, Install rigging for holding and lifting existing pier spandrel columns. Remove existing pier column flush with top of arch, but preserve existing projecting reinforcing steel. See Interior Bent sheets for additional information.
- 11 Install lifting anchor hardware to attach rigging for removal of floorbeam/deck section. Estimated vertical unfactored self-weight loads are 22.5 kips for each of the 4 attachment locations. Resolve into resultant vertical and horizontal loads for selection of rigging anchor hardware. Submit calculations and hardware details to Engineer for approval.
- 12 Minimum rigging angle from horizontal is 60 degrees.
- 13 Provide a transverse spreader beam with sufficient capacity associated with the lifting loads for removal of floorbeam/deck section. Spreader beam is not required for pier section removal.
- 14 Estimated self-weight of floorbeam and deck section is 90 kips for mid-span and quarter sections and 45 kips for pier sections. Weight does not include weight of rigging. Ensure cable rigging allows all cables to equally carry load. Submit lifting plan to Engineer for approval including configuration of cables, shackles, spreader beam, and other lifting hardware.

- SEQUENCING NOTES AND LEGEND:**
- 1 Remove Existing Bridge Rail. See Sheet 4 of 4 for Salvage Notes.
 - 2 Remove Mid-Span Portion of Existing Deck and Floorbeam Structure (to top of arch). See Sheet 4 of 4 for Salvage Notes.
 - 3 Install Temporary Struts Under Task 5 Removal Spandrel Columns
 - 4 Remove First Quarter-Span Portion of Existing Deck and Floorbeam Structure (to top of spandrel columns). See Sheet 4 of 4 for Salvage Notes.
 - 5 Remove Second Quarter-Span Portion of Existing Deck and Floorbeam Structure (to top of spandrel columns). See Sheet 4 of 4 for Salvage Notes.
 - 6 Remove Pier Portion of Existing Deck and Floorbeam Structure (to top of spandrel columns)
 - 7 Remove Spandrel Columns at Pier
 - 8 Remove End Span Superstructure and Pier Columns
 - 9 Remove End Abutment

SHEET 2 OF 4

		Bridge Division		
				PARTIAL DEMOLITION DETAILS SAN ANTONIO ST. COMAL RIVER BRIDGE
FILE: CS_BRG_2711006.dgn	IN: R01	CLK: BRP	DES: EFC	TS: R01
APRIL 2017	CON:	DES:	JOB:	DRAWER:
PROJECT:	8408	15	006	
BRG:	CHYR			
	SRT		COMAL	SHEET NO: 106



TYPICAL PROPOSED SECTION AT BENT

SHEET 2 OF 3

		Bridge Division	
PROPOSED STRUCTURE MODIFICATION AND GEOMETRY SAN ANTONIO ST. COMAL RIVER BRIDGE			
FILE: CS_810_7711001.dwg	DATE: 04/28/15	BY: JSE	CHK: JEB
PROJECT: 84208	ISSUE: 15	DATE: 04/28/15	CS
SAT	COMAL	110	