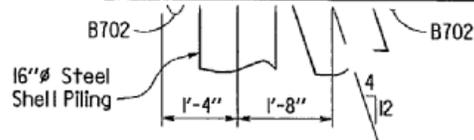
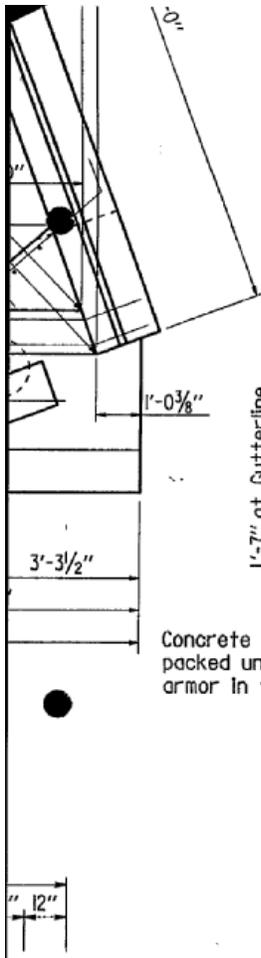


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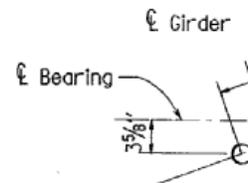
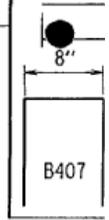
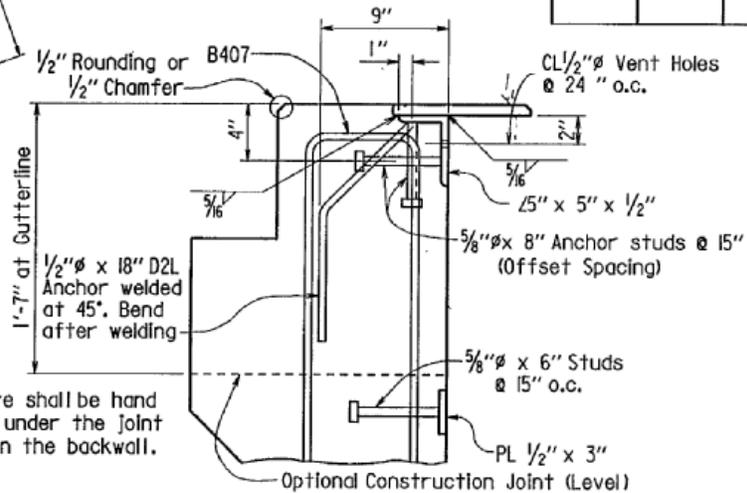
The attached drawings show a revised anchor system for U2 joint armor in backwalls. The revision was made after a failure occurred on a recently constructed bridge on I40 over Cadron Creek. It appeared that the construction sequence and construction tolerances left the $\frac{3}{4}$ plate above the span when the bridge was opened to traffic. The original anchor system was insufficient when the $\frac{3}{4}$ plated acted as a cantilever. A field review of six U2 joints revealed varying degrees of contact for the $\frac{3}{4}$ plate and span. The worst joint had three points of contact with up to $\frac{3}{16}$ " gap elsewhere. In view of the observed construction tolerances and considering that the proposed LRFD specs require joint armor to be designed as a cantilever when spans are supported by elastomeric bearings, the attached changes were made. **Note the additional backwall reinforcing and new optional construction joint. We will be using this system on all jobs from today forward.

Handwritten:

Dale said to try this on a few jobs.



B402	24	23'-1"	2"
B403	38	3'-11"	
B404	7	6'-4"	Str.
B405	49	12'-11"	2"
B406	15	8'-5"	2"
B407	43	6'-2"	2"



Note: For Details of Sliding Plate Joint, see Dwg. No. 34305.

DETAIL X
No Scale

General Notes

All concrete shall be Class 'S' with a minimum $f'c = 3,500$ psi. Concrete shall be poured in it to be chamfered 3/4" unless otherwise noted.

All reinforcing steel shall conform to ASTM A61 (strength = 60,000 psi.).

TYP. ANC