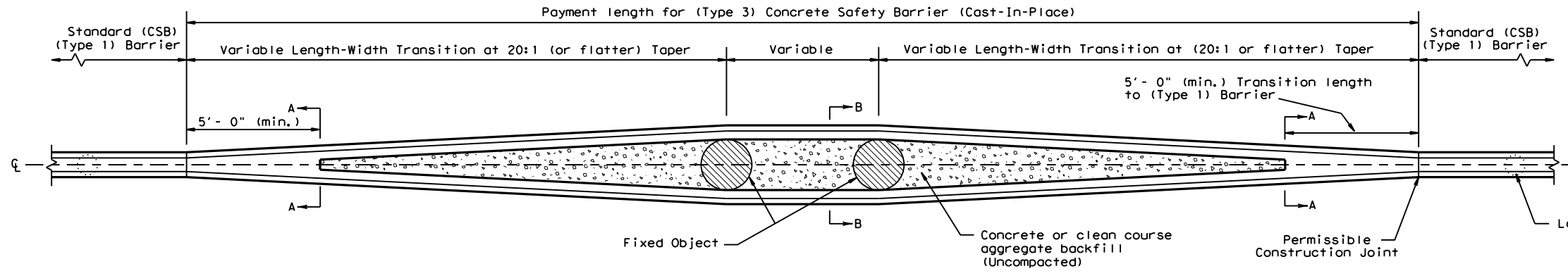


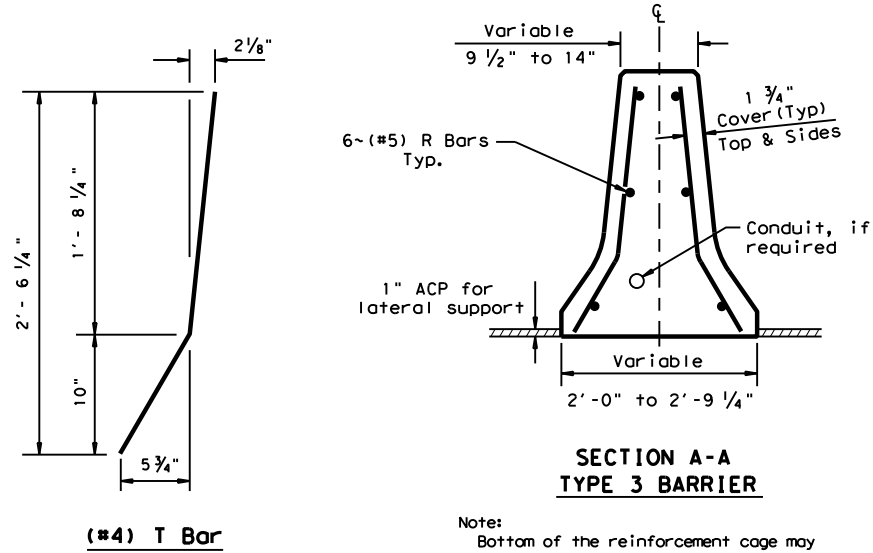
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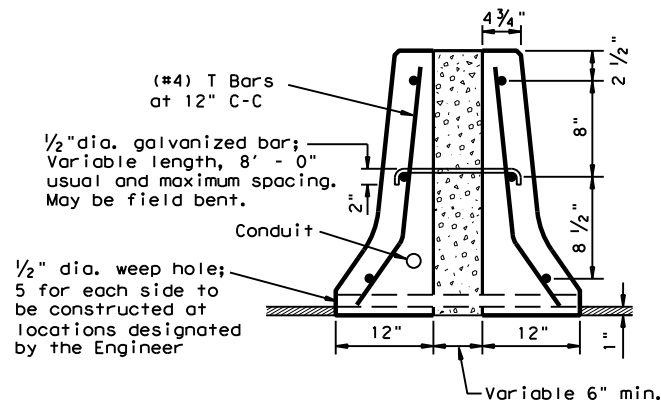
PLAN (TYPE 3) BARRIER

Lateral Support Options:
 a) 1" ACP, both sides of barrier, or
 b) 18" dia x 48" deep Drill Shaft, See CSB(2) sheet, or
 c) Rebar Anchorage, See CSB(3) sheet.



**SECTION A-A
TYPE 3 BARRIER**

Note:
Bottom of the reinforcement cage shall rest on top of the finished grade.



**SECTION B-B
TYPE 3 BARRIER**

Note:
Outside face dimensions and slopes for (Type 3) CSB are the same as for (Type 1) CSB.

GENERAL NOTES

- Axis of concrete barrier shall be vertical, except where roadway is superelevated, then axis shall be normal to roadway surface.
- All steel that requires galvanizing shall be in accordance with Item 445, "Galvanizing."
- Unless otherwise shown in the plans the contractor has the option of placing either precast or cast-in-place (Type 1) CSB.
- Bid price per liner foot of (Type 1) CSB and (Type 3) CSB, including terminal and anchor sections, shall include all of the concrete, reinforcement, drilled shaft foundations and aggregate backfill.
- All concrete shall be Class C.
- Longitudinal and vertical bars for roadway barrier shall conform to ASTM A615 (Grade 60), unless otherwise specified.
- At construction joints the longitudinal bars shall extend beyond the joint so that bar splices will be a minimum of two feet from the construction joint.
- Welded wire reinforcement (WWR) may be used as an option to conventional reinforcement and shall meet area requirement for the (Type 3) R and T bars.
- Any method devised by the contractor and approved by the Engineer that will assure the longitudinal steel for (Type 1) CSB and (Type 3) CSB will be positioned $\pm 1/2$ inch as dimensioned will be satisfactory.
- Conduit to be provided only when called for elsewhere in the plans. Position of conduit may be adjusted to facilitate construction subject to the approval of the Engineer.
- See CSB(4) standard for barrier with illumination.

**Welded Wire Reinforcement (WWR) Option
for Bars T and H1 (Type 3) Barrier**

(WWR) General Notes

- WWR design required for (Type 3) CSB barrier: D20 vertical (12" C-C) x D31 horizontal wires spaced as shown in Section B-B.
- Deformed Welded Wire Reinforcement (WWR) shall conform to ASTM A497.
- Welded wire cage may be cut and bent to accommodate the drainage slots, as directed by the Engineer.
- Welded wire splice locations shall have a "minimum" splice lap length of 12".
- Combinations of reinforcing steel and WWR will be permitted, as directed by the Engineer. The dimension from the end of the barrier section to the first wire shall not exceed 3".

		Design Division Standard	
CONCRETE SAFETY BARRIER (F-SHAPE) CAST-IN-PLACE (TYPE 3) AT FIXED OBJECTS CSB(6) - 10			
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