

SECTION 854
CONCRETE BARRIER

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3 **854-1 DESCRIPTION**

4 Construct Portland cement concrete barrier in accordance with the contract. The concrete
5 barrier may be cast in place, slip formed or precast, unless otherwise specified in the contract.

6 **854-2 MATERIALS**

7 Refer to Division 10.

Item	Section
Connector Pins and Eye Assemblies	1072
Curing Agents	1026
Grout	1003
Guardrail and Barrier Delineators	1088-2
Joint Fillers	1028-1
Joint Sealers	1028-3
Portland Cement Concrete, Class AA	1000
Reinforcing Steel	1070-2

8 Galvanize connector pins and eye assemblies in accordance with Section 1076.

9 Use clear curing compound.

10 Provide grout with a compressive strength at 3 days of at least 5,000 psi for portable concrete
11 barriers.

12 **854-3 CONSTRUCTION METHODS**

13 **(A) Cast in Place or Slip Formed**

14 Construct concrete in accordance with Section 825 and give an ordinary surface finish,
15 except as otherwise provided herein.

16 Construct joints in accordance with the details shown in the plans. Seal expansion joints.

17 **(B) Precast**

18 Construct concrete in accordance with Section 825 and give an ordinary surface finish,
19 except as otherwise provided herein. Use Class AA concrete.

20 Do not handle or remove the forms from barrier until the strength of the concrete reaches
21 at least 2000 psi as evidenced by nondestructive tests made in place by a rebound
22 hammer in accordance with ASTM C805.

23 Construct the base beneath the precast units to be equivalent to the adjacent pavement
24 structure.

25 Lift and place precast units using a two-point pick up, or other approved method that will
26 not overstress or damage the concrete. Do not use connectors for lifting purposes. Do
27 not use lifting devices or methods that will mar the surface of the concrete. Do not use
28 any precast unit that has been cracked, damaged, chipped, scarred or otherwise
29 disfigured.

30 **(C) Barrier Delineators**

31 Use any of the several alternate delineator types for barrier shown in the plans, but only
32 one delineator type for barrier at any one time throughout the project.

33 The delineators consist of a reflector and base or casing. Attach the delineator to the
34 barrier as shown in the plans. Only one attachment position will be permitted throughout
35 the project length.

Section 857

1 Position delineators perpendicular to the centerline of the road. Use yellow delineators in
2 the median and on the left side of one-way ramps, loops or other one-way facilities. Use
3 crystal delineators on the right side of divided highways, ramps, loops and all other one-
4 way or two-way facilities. In all cases, the color of the delineator shall supplement the
5 color of the adjacent edgelines.

6 **854-4 MEASUREMENT AND PAYMENT**

7 *Concrete Barrier, Type ____* will be measured and paid in linear feet of barrier that has been
8 completed and accepted. Measurement will be made along the top surface at the centerline of
9 the barrier completed and in place with no deduction made for joints.

10 *Variable Height Concrete Barrier, Type ____* will be measured and paid in linear feet of
11 barrier that has been completed and accepted. Measurement will be made along the top
12 surface at the centerline of the barrier completed and in place with no deduction made for
13 joints.

14 *Concrete Barrier Transition Section* will be measured and paid in units of each for transitions
15 completed and accepted.

16 There will be no measurement made of barrier delineators as they are incidental to the other
17 pay items in this section.

18 No direct payment will be made for the work of constructing any footing beneath the concrete
19 barrier or concrete barrier transition sections as payment at the various contract unit prices for
20 concrete barrier or concrete barrier transition sections will be full compensation for all such
21 work.

22 Price and payment includes, but is not limited to, excavating, furnishing and placing concrete,
23 reinforcing steel, grout and hardware; transporting and placing precast units; galvanizing;
24 constructing and sealing joints; and furnishing and installing barrier delineators.

25 Payment will be made under:

Pay Item	Pay Unit
Concrete Barrier, Type ____	Linear Foot
Variable Height Concrete Barrier, Type ____	Linear Foot
Concrete Barrier Transition Section	Each

26 **SECTION 857**
27 **PRECAST REINFORCED CONCRETE BARRIER – SINGLE FACED**

28 **857-1 DESCRIPTION**

29 Construct precast reinforced Portland cement concrete barrier in accordance with the contract.

30 **857-2 MATERIALS**

31 Comply with Article 854-2.

32 **857-3 CONSTRUCTION METHODS**

33 Construct concrete in accordance with Section 825 and give an ordinary surface finish, except
34 as otherwise provided herein.

35 Lift and place precast units using a two-point pick up or other approved method that will not
36 overstress or damage the concrete. Do not use lifting devices or methods that will mar the
37 surface of the concrete. Do not set any precast unit that is cracked, damaged, chipped, scarred
38 or otherwise disfigured.