



NOTES

SINGLE SLOPE CONCRETE BARRIER may be cast-in-place or slip formed. See SCD RM-4.3 for Type B, B1, C, and C1 barrier. See SCD RM-4.5 for Type D barrier. See SCD RM-4.6 for End Sections.

MATERIALS: Construct using concrete with a minimum design strength of 4000 psi conforming to the requirements of CMS 499. Construct top and end edges with either a 1" radius or 3/4" chamfer, except at light pole foundations.

CONTRACTION JOINTS: Maximum allowable spacing of unsealed joints is 20' throughout the run of the barrier. Construct joints by using metal inserts inside the forms, preformed full width joint filler, a grooving tool, or by sawing. Inserts, tooled, or sawed joints will have a 3" depth. Construct all joints for the full height of the barrier. Saw as soon as curing will allow to prevent spalling. When used in conjunction with concrete pavement, match joints to those in the concrete pavement but not exceeding the maximum allowable spacing.

ADJOINING PAVEMENT: When the barrier is constructed in conjunction with new pavement (asphalt or concrete), the concrete leveling pad and aggregate base layer shall match the thickness of the proposed asphalt or concrete pavement buildup. The barrier shall then be doweled in to the concrete leveling pad. Barrier constructed next to existing pavement shall have a 9" thick concrete leveling pad placed on 6" of aggregate base. The barrier shall then be doweled in to the concrete leveling pad. Compacted soil on the back side must be placed against the barrier at a minimum height of 3" and extend for a minimum of 2' prior to the breakpoint of the slope.

SEALING JOINTS: Use a butt longitudinal joint between the barrier and adjoining concrete pavement sealed with CMS 705.04 joint sealer. See detail on Sheet 28.

TRANSITIONS: Make linear transitions between different types of barrier within a 20' length.

CONSTRUCTION JOINTS: Barrier runs with abutting vertical surfaces at either required or permissible construction joints are to be doweled to each other by use of 3/4" dia. by 18" long epoxy coated deformed dowel bars as per CMS 622.02. Bars are to be placed as shown on the RACEWAY and DOWEL BAR PLACEMENT detail on this sheet. Provide a 4" clearance to barrier surfaces and to any raceways.

STATION MARKINGS: Impress markings in the "green" concrete on both sides at the top of the barrier. The cost is incidental to the unit cost bid for this barrier.

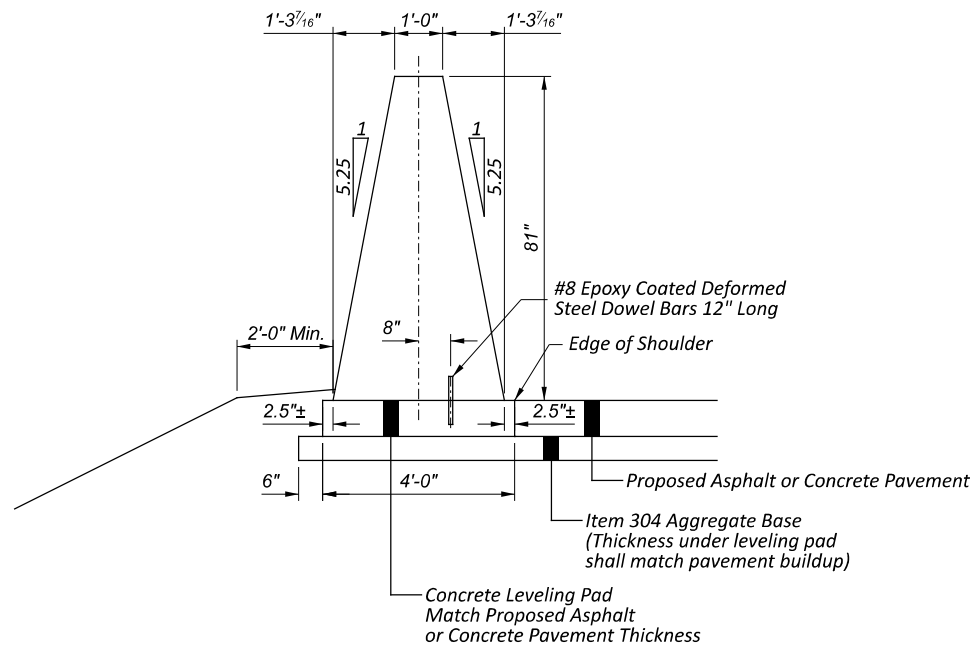
RACEWAY: Locate as shown on in RACEWAY PLACEMENT Detail, unless otherwise directed by the Engineer. Ensure that the electrical raceway is clear of obstructions. Cost of the 4" polyvinyl chloride raceway is included where shown on the plans. The cost for additional raceways and No. 10 AWG copperclad or aluminum-clad wire is also included where shown on the plans for future installation of circuits.

PAYMENT: will be made at the unit price bid per Foot for ITEM 622 - 81" Single Slope Concrete Barrier Noise Wall. Include all materials, labor, raceways, dowel holes, markings and other incidentals necessary to construct the barrier, except as follows:

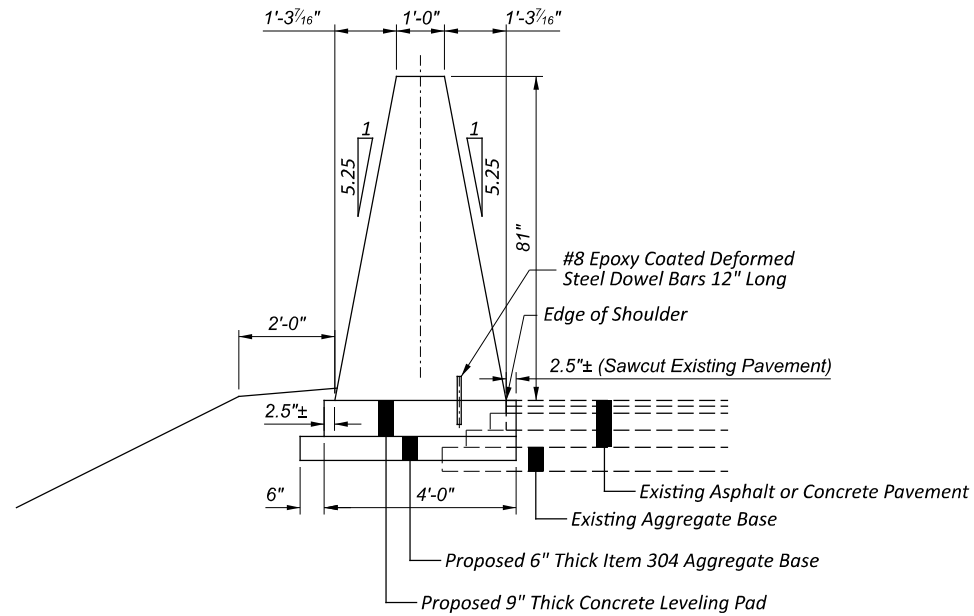
Item 611 Barrier Median Inlet	20 ft.
Item 625 Light Pole Foundation or Pullbox	8 ft.
Item 630 Rigid Overhead Sign Support Foundation	Each

Payment for any reinforced end anchors, as shown on the END ANCHORAGE details shown on Sheet 3, will be made at the unit price bid per Each for ITEM 622 - Concrete Barrier, End Anchorage, Reinforced. This includes all materials, labor, and other incidentals necessary to construct this anchor.

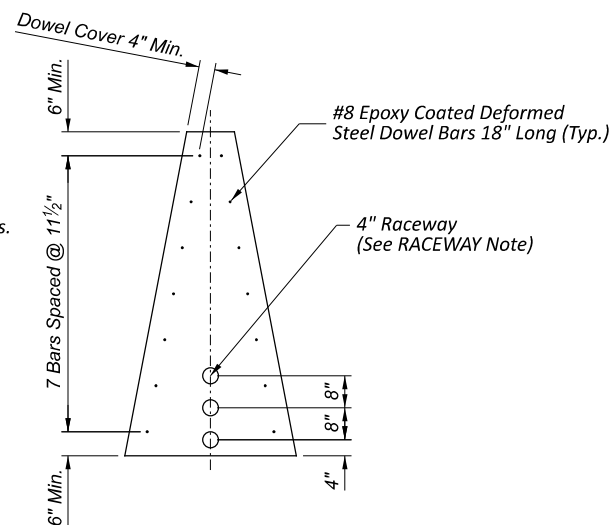
New Pavement Installation



Existing Pavement Installation

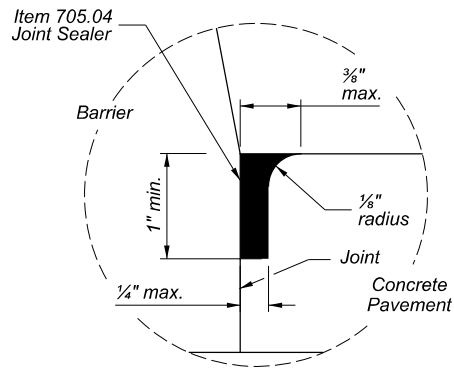


Raceway and Horizontal Dowel Bar Placement

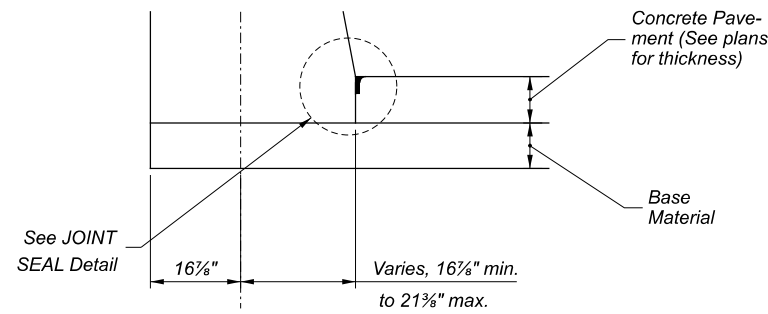


See CONSTRUCTION JOINTS note for doweling requirements.

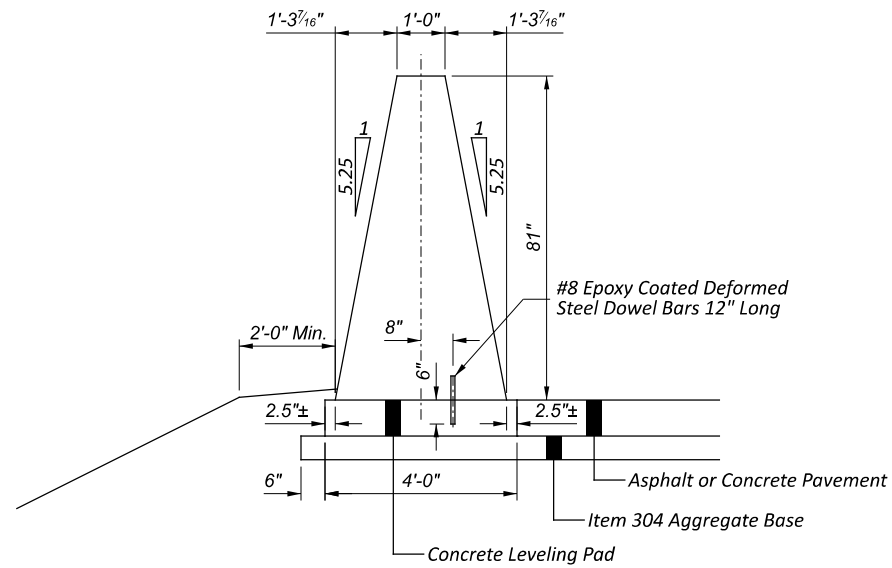
Do not place dowels closer than 4" to any conduit.



JOINT SEAL DETAIL
(FOR USE WITH CONCRETE PAVEMENT)

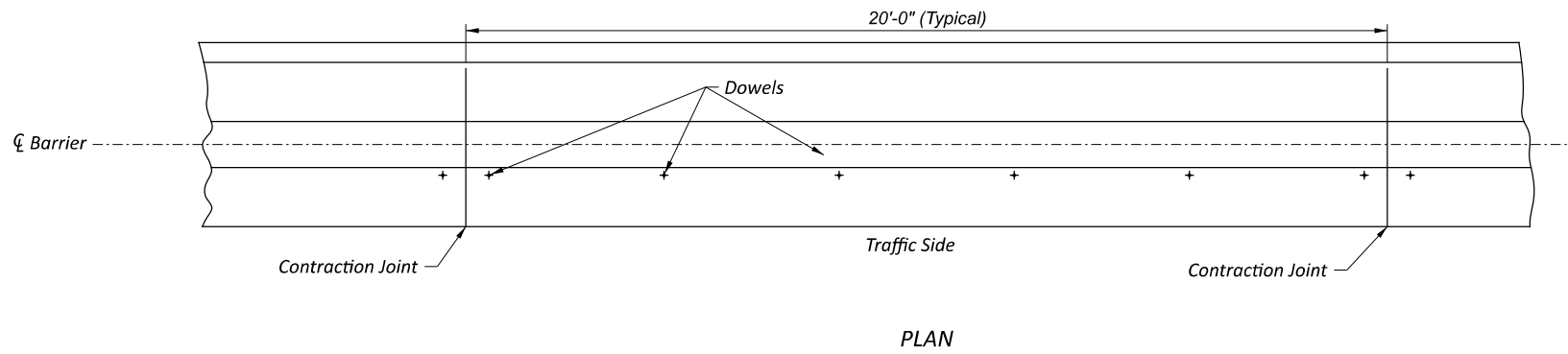


TYPE C1

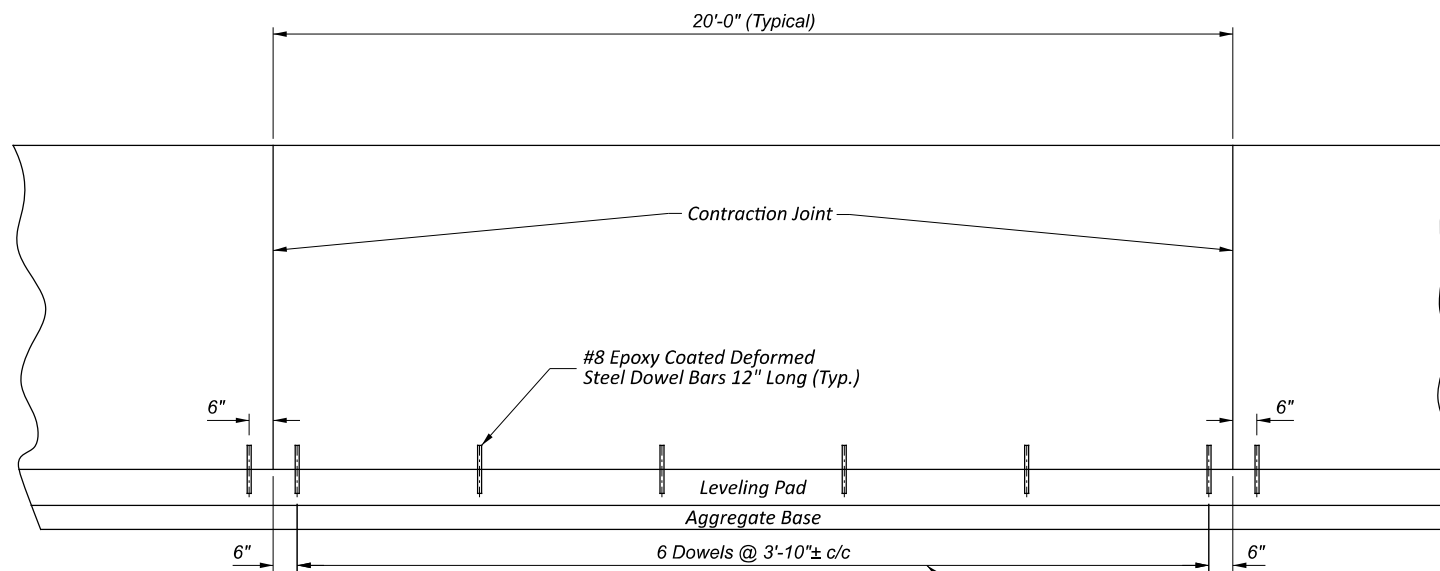


SECTION

VERTICAL DOWELING DETAILS



PLAN



ELEVATION

