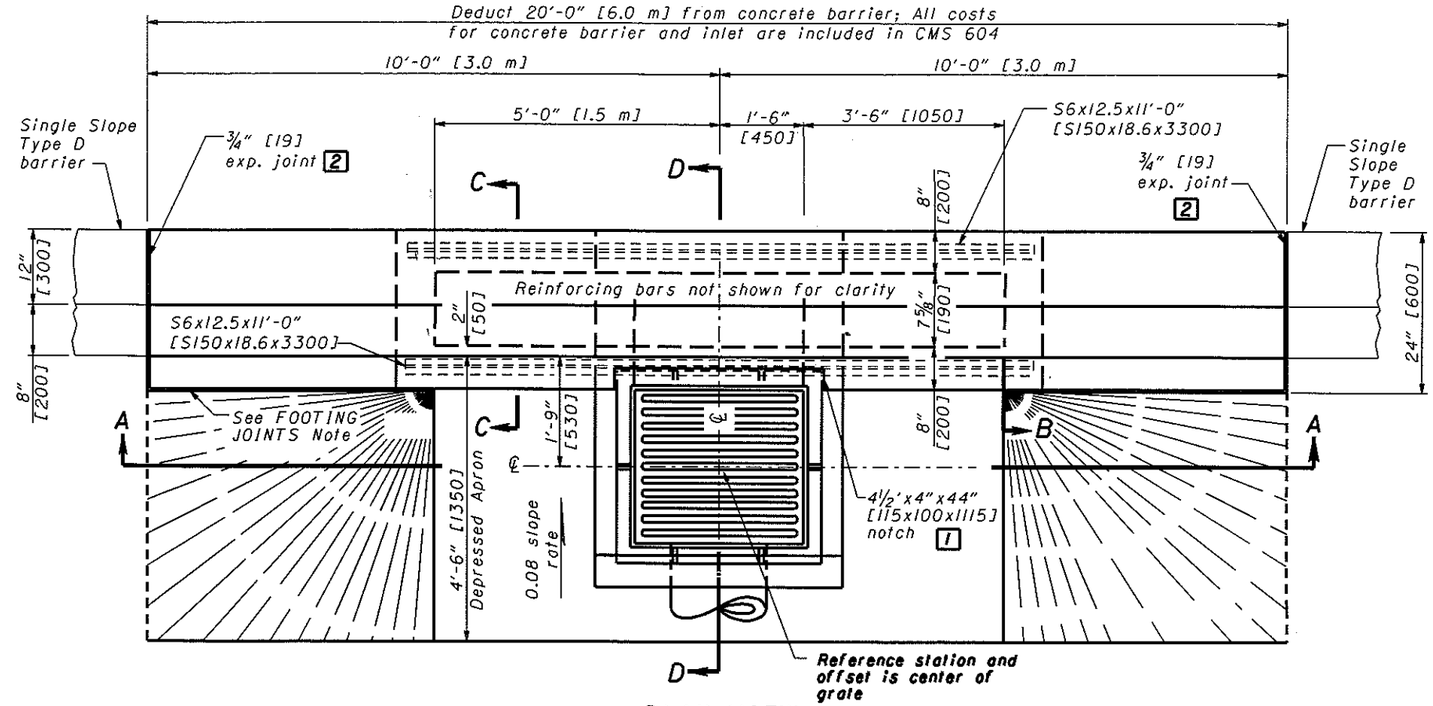

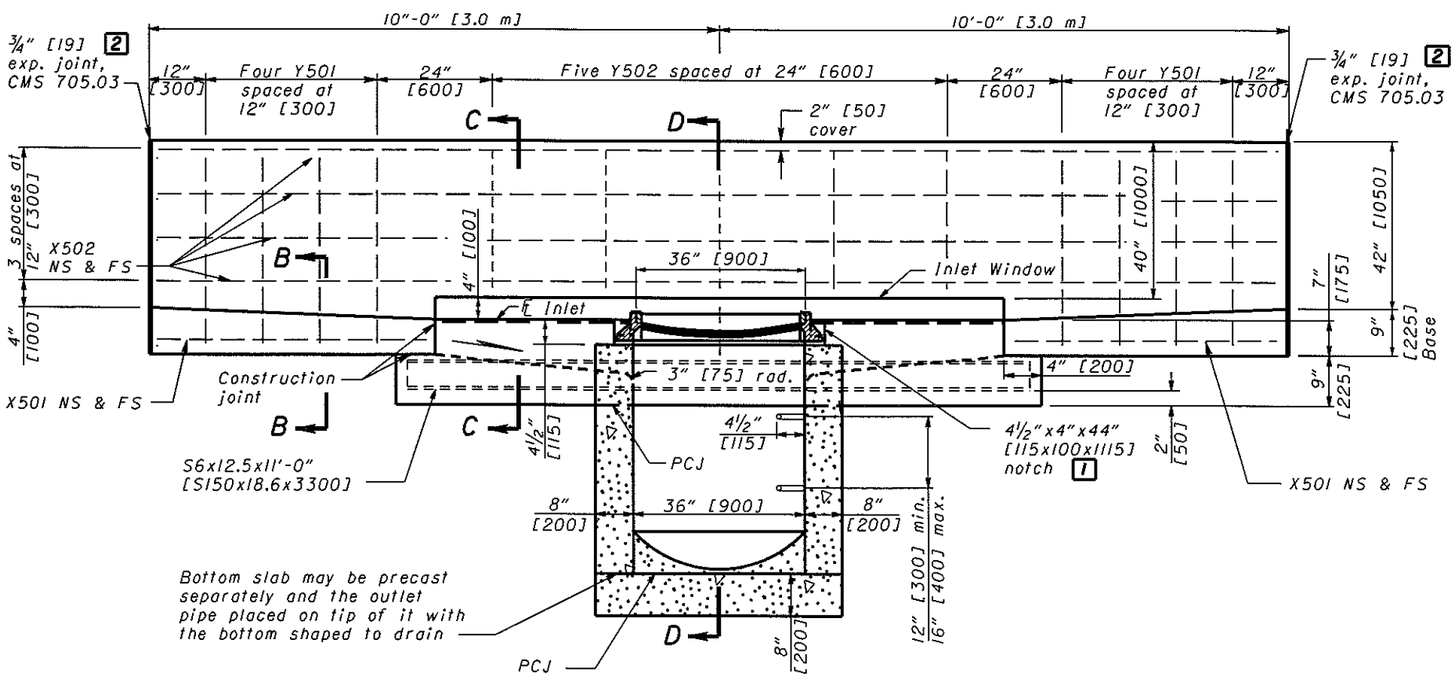

NOTES

GENERAL: For details of Type D concrete barriers, see **SCD RM-4.5.**

WALLS: The walls between the bottom slab and the upper permissible construction joint may be built of brick, concrete concrete block or cast-in-place concrete, 8" [200] nominal thickness for depths of 12' [3.5 m] or less. Precast walls shall have a minimum thickness of 6" [150] and be reinforced sufficiently to permit shipping and handling without damage. The unit above the permissible construction joint may be precast or cast-in-place.

CONCRETE: Cast-in-place concrete is to be Class C. All precast concrete shall meet the requirements of CMS 706.13. Required markings shall include the Inlet number. Exposed concrete surfaces of the barrier shall be sealed with an approved sealer.

REINFORCING STEEL: Reinforcing steel shall be epoxy coated in accordance with CMS 509.09.

FOOTING JOINTS: The vertical walls between the barrier footing and a concrete pavement or concrete base shall be provided with a sealed joint as detailed on **SCD RM-4.3.**

CASTINGS: For casting details see Sheet 2. Minimum weight [mass] of frame and cover shall be 540 lbs. [245 kg].

Lighter weight frames and grates that meet the requirements of CMS 711.14 may also be provided. Grate openings and dimensions shall not differ from those shown unless otherwise shown in the plans.

STEPS: Steps shall be in accordance with **SCD MH-1.1.**

GRATE LOCATION: In superelevated curves or at other locations where there is unequal discharge from the directional roadways, the inlet grating shall be located in the roadway which discharges the major flow.

INLETS OVER 12 FEET [3.5 m] IN DEPTH: Such inlets shall be precast or cast-in-place concrete; reinforced with #4 [#13M] bars on 12" [300] centers both vertically and horizontally with 2" [50] clearance from the inside wall face.

OPENINGS: Pipe openings shall be the outside diameter of the pipe being supplied plus 2" [50] when fabricated or field cut. Fill any voids per CMS 601.

PCJ: Permissible construction joint

PAYMENT: Payment will be made at the unit price bid per Each for **Item 604 - Inlet No. 3 for Single Slope Barrier, Type D** and shall include all materials, reinforcing steel, castings, labor and incidentals required to construct the inlet as shown.

LEGEND

1 After casting is placed, fill notch with Class C concrete.

2 A 1 1/2" [38] minimum exp. joint shall be provided in concrete pavement or concrete shoulders.

See Sheet 2 for other sections and steel information.

OHIO DEPARTMENT OF TRANSPORTATION
STATE HYDRAULIC ENGINEER

DATE
7-16-04
7-15-05

HYDRAULIC ENGINEER
W. Wowszkiewicz

All metric dimensions [in brackets []] are in millimeters unless otherwise noted.

OFFICE OF STRUCTURAL ENGINEERING

STANDARD HYDRAULIC CONSTRUCTION DRAWING
INLET No. 3 FOR SINGLE SLOPE BARRIER, TYPE D

NUMBER
1-2.3