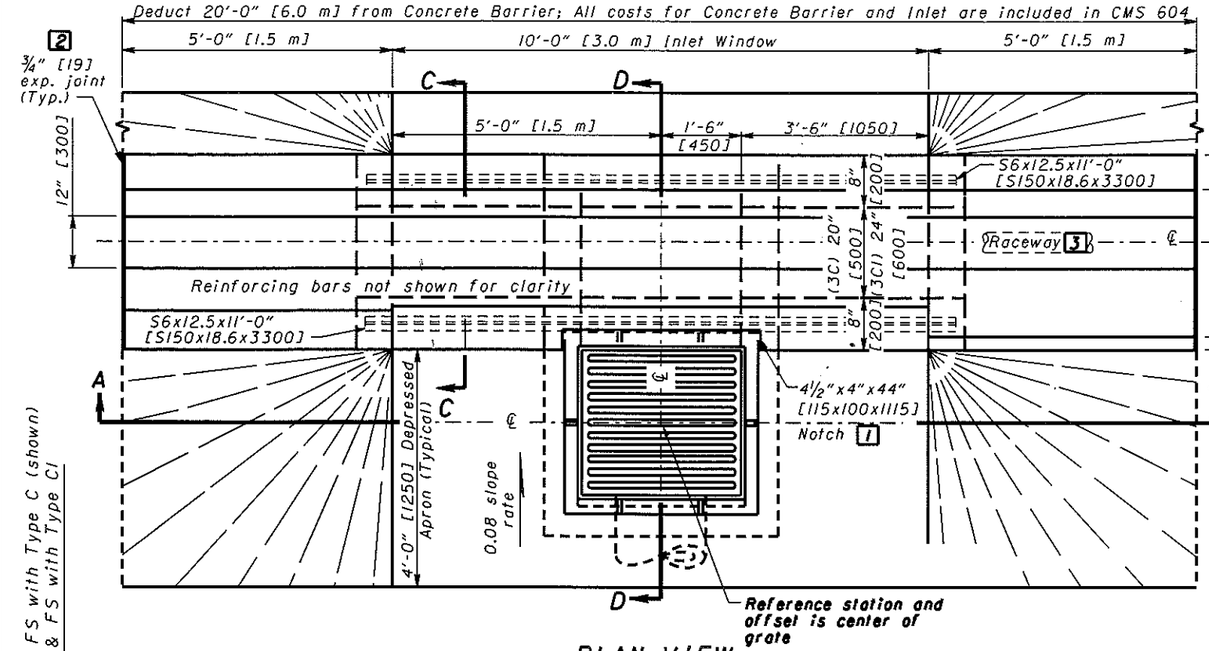
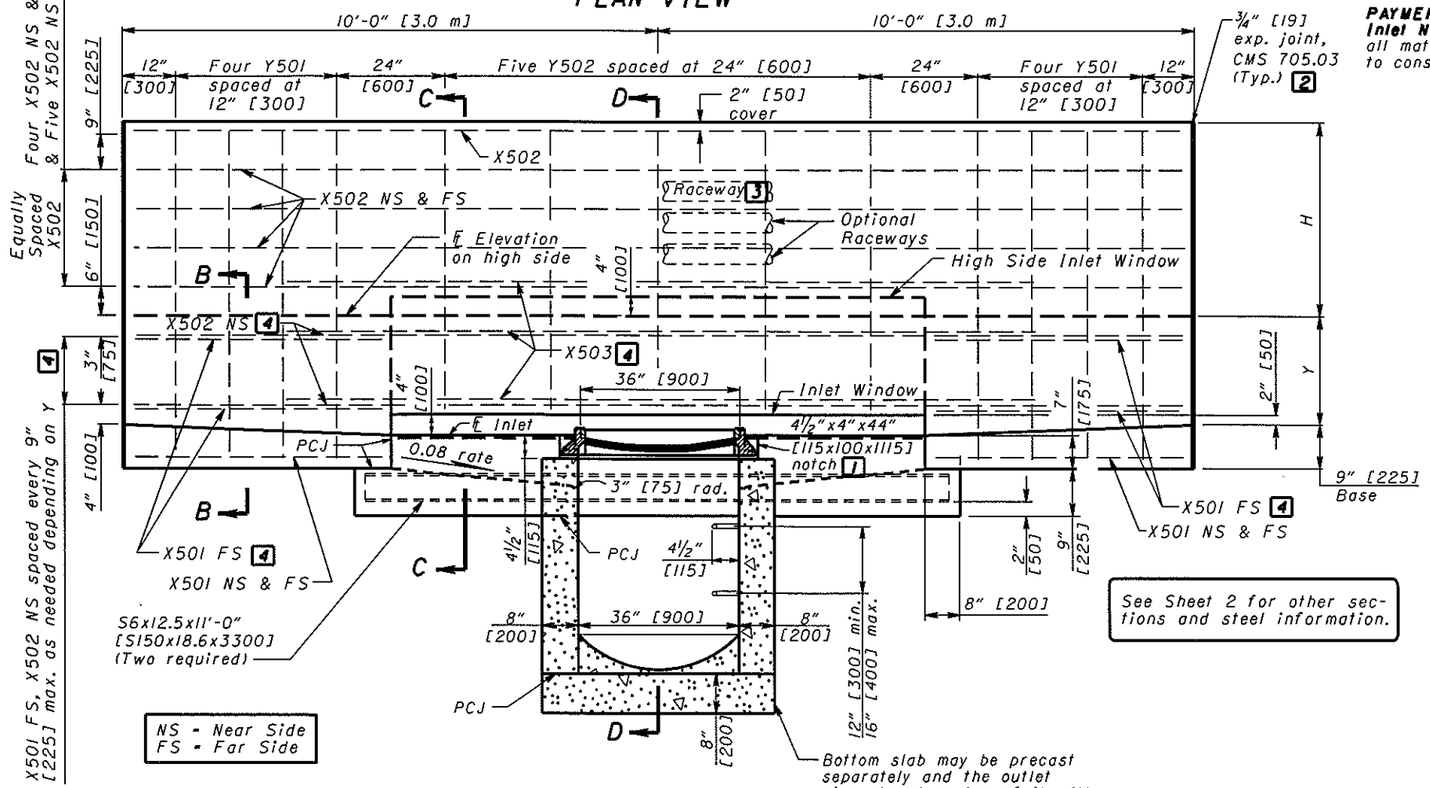


PLAN VIEW



SECTION A-A

See Sheet 2 for other sections and steel information.

NOTES

GENERAL: For details of Single Slope Concrete Barriers, see **SCD RM-4.3.**

VARIABLE DIMENSIONS: Y denotes bifrucation and varies from greater than 0 to 24" [600], as shown in the plans. Dimension D is dependent on Y and also varies.

WALLS: The walls between the bottom slab and the upper permissible construction joint may be built of brick, 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 upper 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

CASTINGS: Minimum mass of frame and cover shall be 540 lbs. [245 kg]. See this Sheet for CASTING DETAILS.

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.**

INLETS OVER 12 FEET [3.5 m] IN DEPTH: Such inlets shall be precast or cast-in-place concrete; reinforced with #5 [#16M] 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.

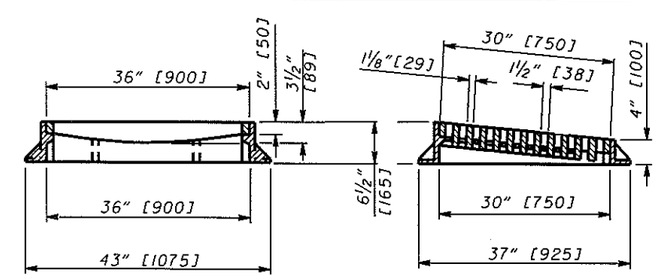
PAYMENT: Payment will be made at the unit price bid per Each for **Item 604 - Inlet No. 3, for Single Slope Barrier, Type ____ (C, or CI)** and shall include all materials, reinforcing steel, castings, raceways, wiring and labor required to construct the inlet as shown.

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.
3. 4" [100] electrical raceway. See Sheet 2 for RACEWAY PLACEMENT Details.
4. Number of X501, X502 and X503 reinforcing bars varies depending on bifrucation (Dimension Y).

STANDARD INLET TYPES

INLET No. 3	H	C	D
Type C	42" [1050]	14" [350]	Varies from 14" [350] when Y=0, to 18 3/8" [460] when Y=24" [600]
Type CI	57" [1450]	16 7/8" [420]	Varies from 16 7/8" [425] when Y=0, to 21 3/8" [540] when Y=24" [600]



CASTING DETAILS

OHIO DEPARTMENT OF TRANSPORTATION

STATE HYDRAULIC ENGINEER

DATE
7-16-04
7-15-05

HYDRAULIC ENGINEER
M. Wawszkiewicz

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, TYPES C & CI

NUMBER
1-2.2