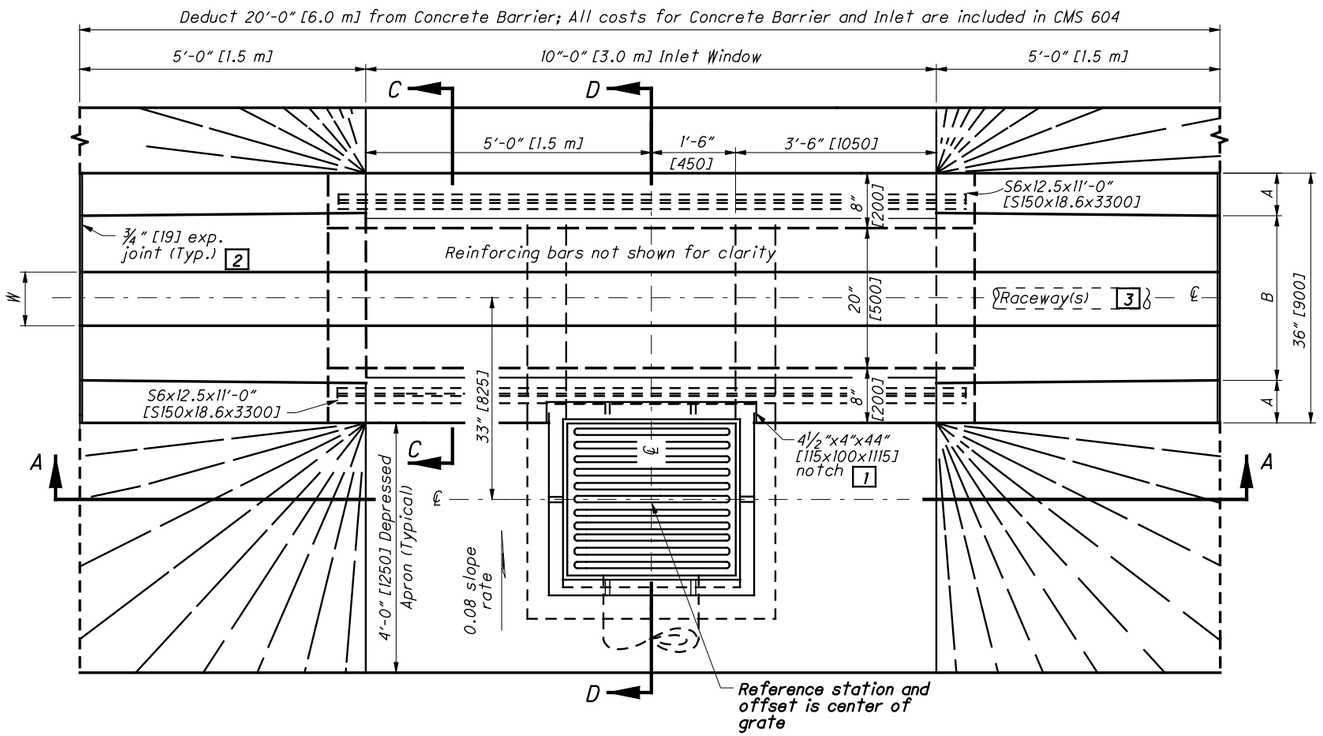
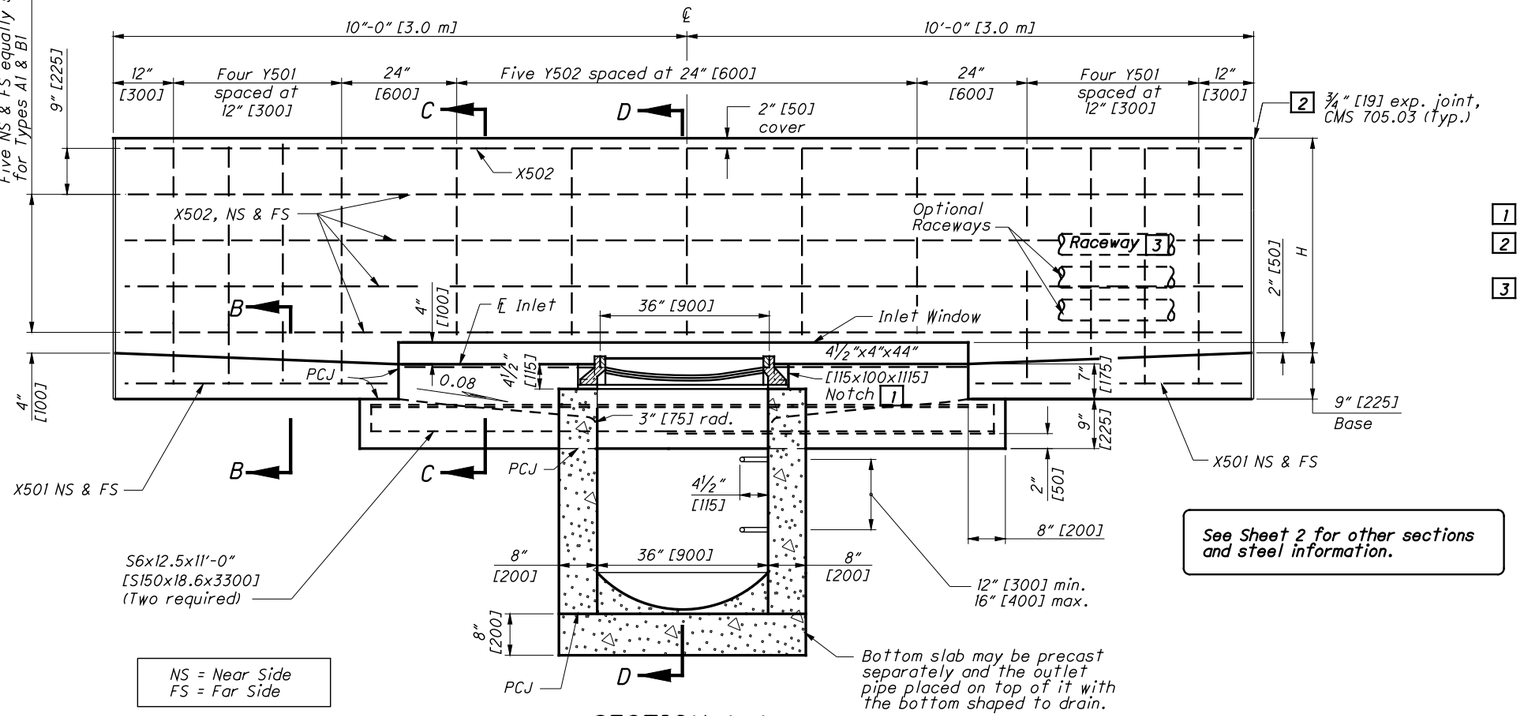


PLAN VIEW



NS = Near Side
FS = Far Side

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.***

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 Sheet 2 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 ____ (A, A1, B, or B1)*** *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 1½" [38] minimum exp. joint shall be provided in concrete pavement or concrete shoulders.*
3. *4" [100] electrical raceway for Types B & B1. See Sheet 2 for RACEWAY PLACEMENT Details.*

STANDARD INLET TYPES				
INLET NO. 3	W	H	A	B
Type A	8" [200]	42" [1050]	6" [150]	24" [600]
Type A1	8" [200]	57" [1450]	3⅛" [75]	29¾" [750]
Type B	12" [300]	42" [1050]	4" [100]	28" [700]
Type B1	12" [300]	57" [1450]	1⅛" [25]	33¾" [850]

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7-16-04
7-15-05

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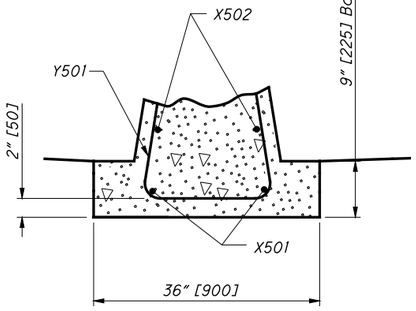
ALL METRIC DIMENSIONS ( ) ARE IN BRACKETS [ ] IN MILLIMETERS UNLESS OTHERWISE NOTED.

OFFICE OF STRUCTURAL ENGINEERING

STANDARD HYDRAULIC CONSTRUCTION DRAWING

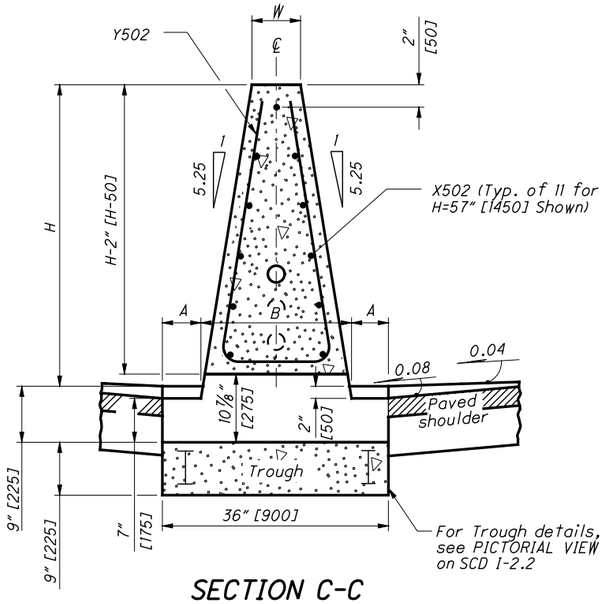
INLET No. 3 FOR SINGLE SLOPE BARRIER, TYPES A, A1, B & B1

SCD NUMBER
I-2.1



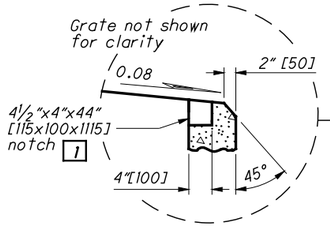
PARTIAL SECTION B-B

See Sheet 1

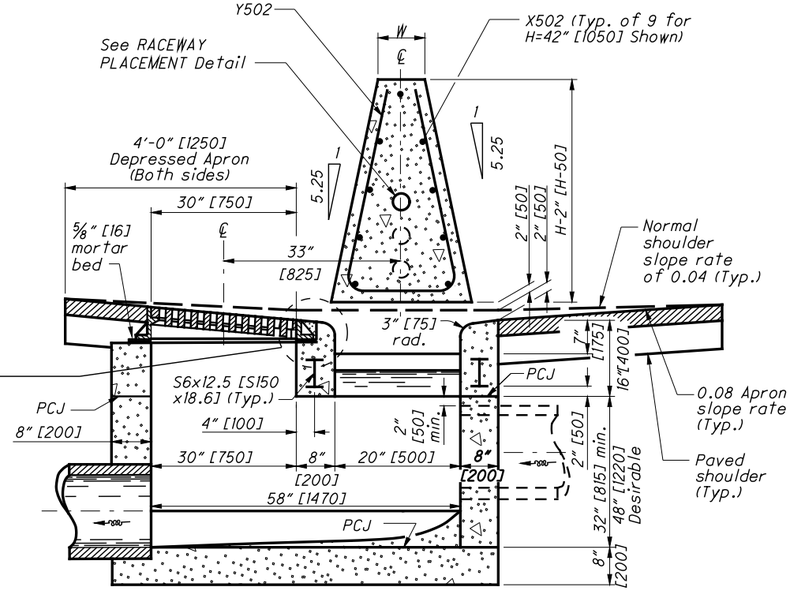


SECTION C-C

See Standard Inlet Types on first sheet for dimensions A, B. H and W.

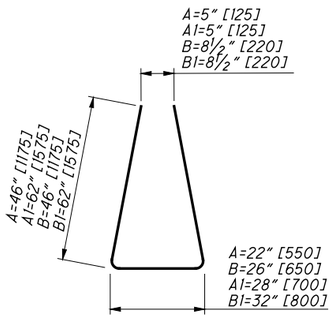


ALTERNATE SPILLWAY DETAIL

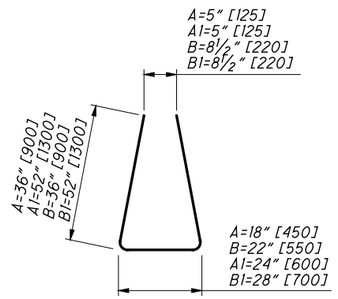


SECTION D-D

See Sheet 1

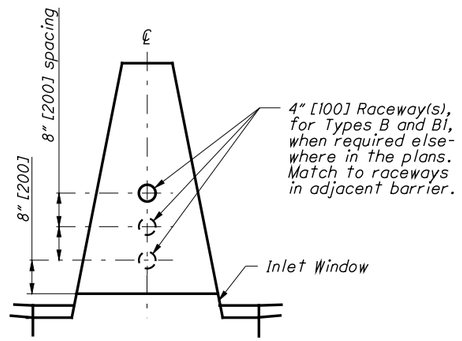


Y501



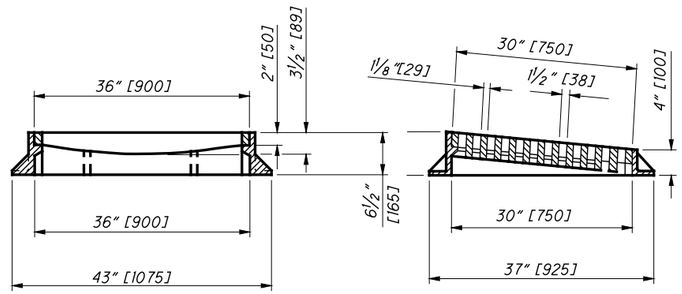
Y502

BENDING DIAGRAMS



RACEWAY PLACEMENT

(Over Inlet Window)



CASTING DETAILS

STEEL LIST (For Estimating Purposes Only)										
INLET NO. 3	X501 #5 [#16M] Straight		**X502** #5 [#16M] Straight		Y501 #5 [#16M] Bent		Y502 #5 [#16M] Bent		S6x12.5 [S150x18.6]	
	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
Type A	4	4'-8" [1400]	9	19'-8" [5900]	8	9'-3" [2810]	5	7'-3" [2200]	2	11'-0" [3300]
Type A1	4	4'-8" [1400]	11	19'-8" [5900]	8	12'-3" [3730]	5	10'-3" [3120]	2	11'-0" [3300]
Type B	4	4'-8" [1400]	9	19'-8" [5900]	8	9'-9" [2970]	5	7'-9" [2360]	2	11'-0" [3300]
Type B1	4	4'-8" [1400]	11	19'-8" [5900]	8	12'-9" [3880]	5	10'-9" [3270]	2	11'-0" [3300]

For Standard Inlet Types, NOTES, LEGEND, Plan and Section A-A, see Sheet 1.

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STANDARD HYDRAULIC CONSTRUCTION DRAWING

INLET No. 3 FOR SINGLE SLOPE BARRIER, TYPES A, A1, B & B1

SCD NUMBER
I-2.1

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