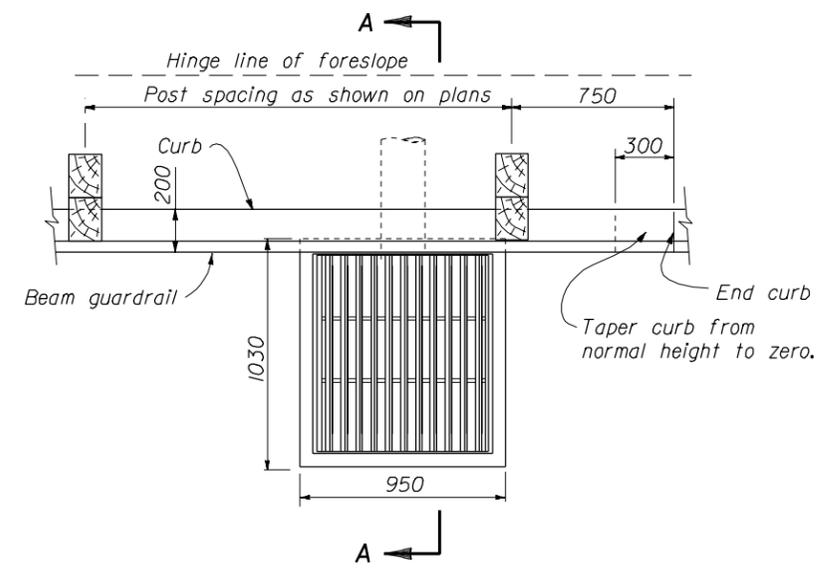


PLAN

CATCH BASIN LAYOUT AT BRIDGE ENDS

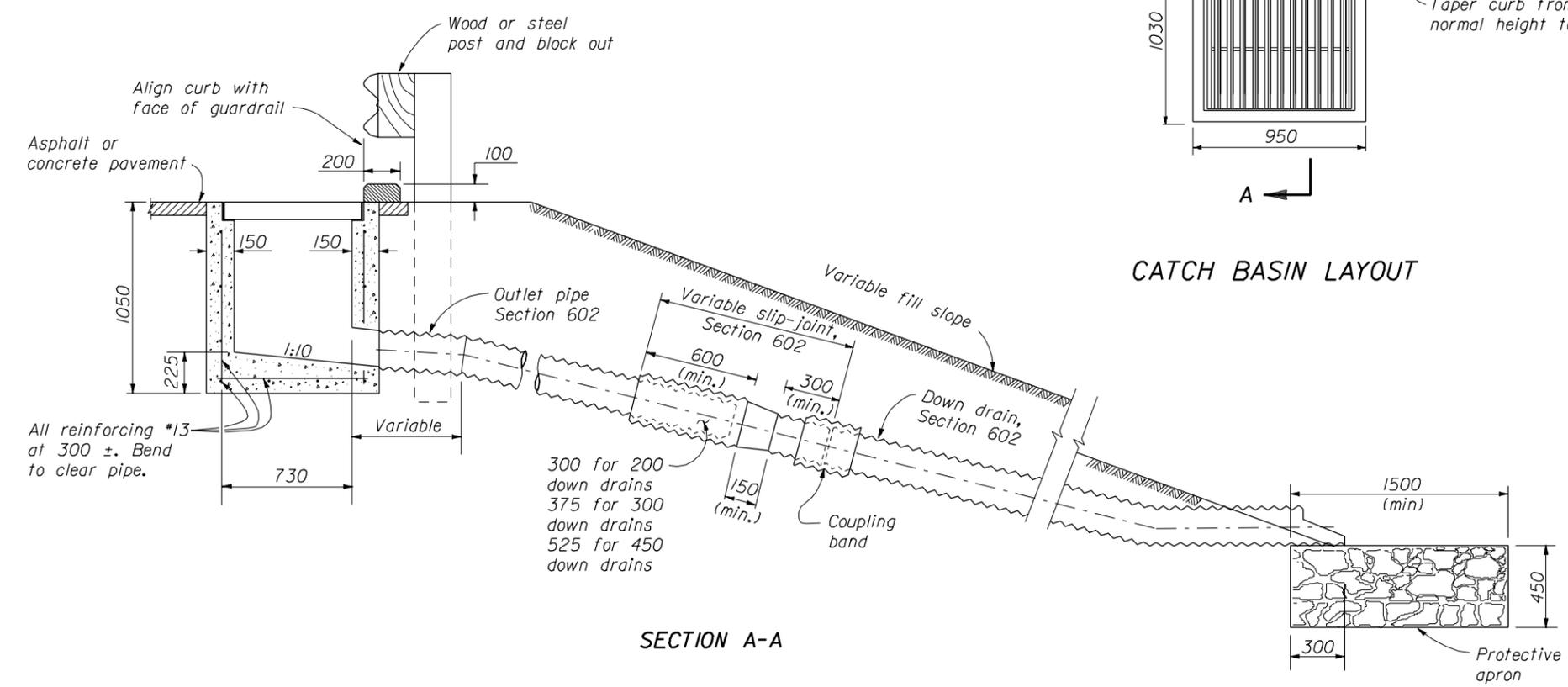
DESCRIPTION	FRAME AND GRATE	
	TYPE A	TYPE B
Reinforcing Steel	32 kg	32 kg
Structural Steel	98 kg	108 kg
Concrete	0.6 m ³	0.6 m ³



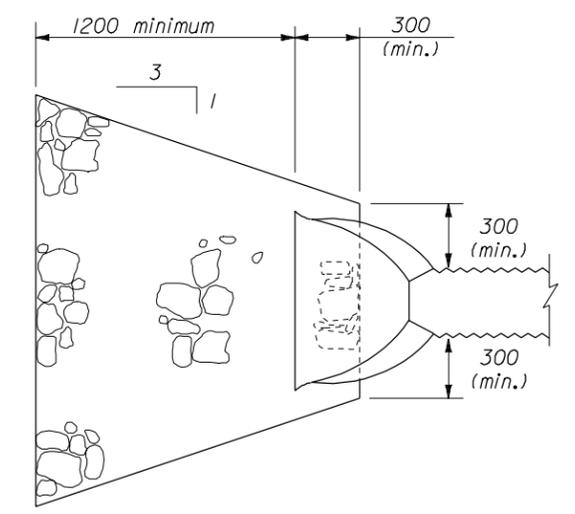
CATCH BASIN LAYOUT

NOTES:

1. Unless otherwise shown, dimensions are in millimeters.
2. CONCRETE: Chamfer exposed edges 20 mm unless otherwise shown. Give all concrete surfaces a Class 1 finish.
3. The minimum concrete cover to the face of any bar is 50 mm unless otherwise shown.
4. See Standard M604-2 for Type A Frame and Grate and Standard M604-3 for Type B Frame and Grate.
5. Make all coupling band connections watertight by placing 5 mm bead of approved caulking under each half of the bands before tightening.
6. Fabricate tapered portion of slip-joint from either flat or corrugated sheets.
7. Place Class 2 riprap conforming to Section 251 for protective apron.



SECTION A-A



PLAN
PROTECTIVE APRON

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

METRIC STANDARD
**CATCH BASIN TYPE 2
WITH DOWN DRAIN**

STANDARD APPROVED FOR USE --/----

REVISOR: 08/97 07/98

STANDARD
M604-04

NO SCALE

02/27/2003 08:46:05 AM MASStandard\METRIC\MST604-04.DGN