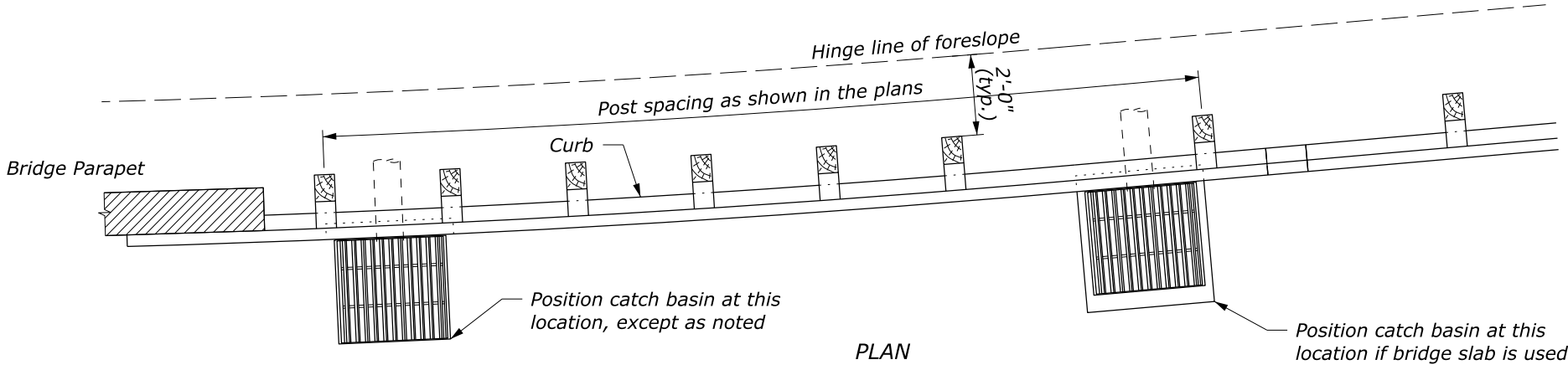


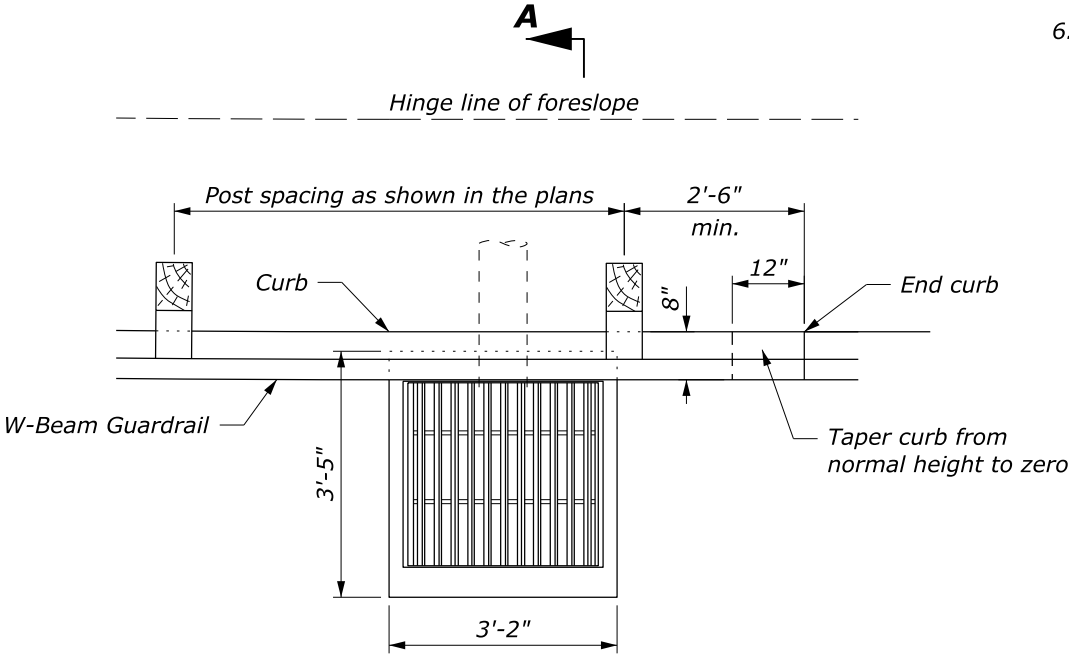
NOTE:

1. Chamfer all exposed edges  $\frac{3}{4}$  inch and finish all exposed surfaces with a Class 1 ordinary finish.
2. The minimum concrete cover to the face of any bar is  $1\frac{1}{2}$  inches unless otherwise shown.
3. See Standard 604-2 for Type A Frame and Grate and Standard 604-3 for Type B Frame and Grate.
4. Make all coupling band connections watertight by placing  $\frac{3}{16}$ -inch bead of approved caulking under each half of the bands before tightening.
5. Fabricate tapered portion of slip-joint from either flat or corrugated sheets.
6. Place Class 2 riprap according to Section 251 for protective apron.

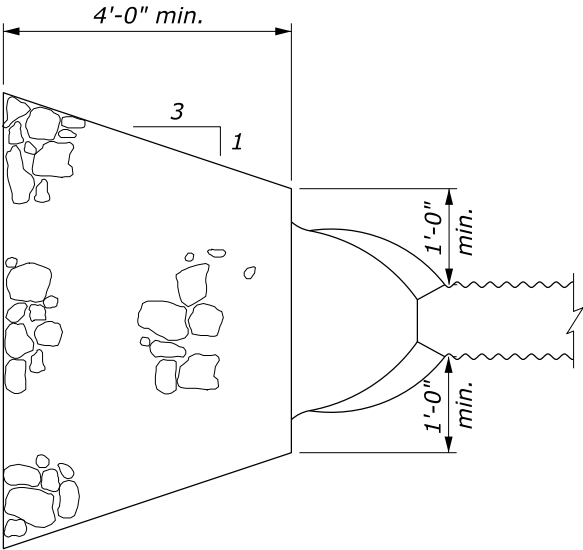


CATCH BASIN LAYOUT AT BRIDGE ENDS

| TABLE OF QUANTITIES |                 |           |
|---------------------|-----------------|-----------|
| DESCRIPTION         | FRAME AND GRATE |           |
|                     | TYPE A          | TYPE B    |
| Reinforcing Steel   | 70 lbs          | 70 lbs    |
| Structural Steel    | 215 lbs         | 238 lbs   |
| Concrete            | 0.85 cuyd       | 0.85 cuyd |

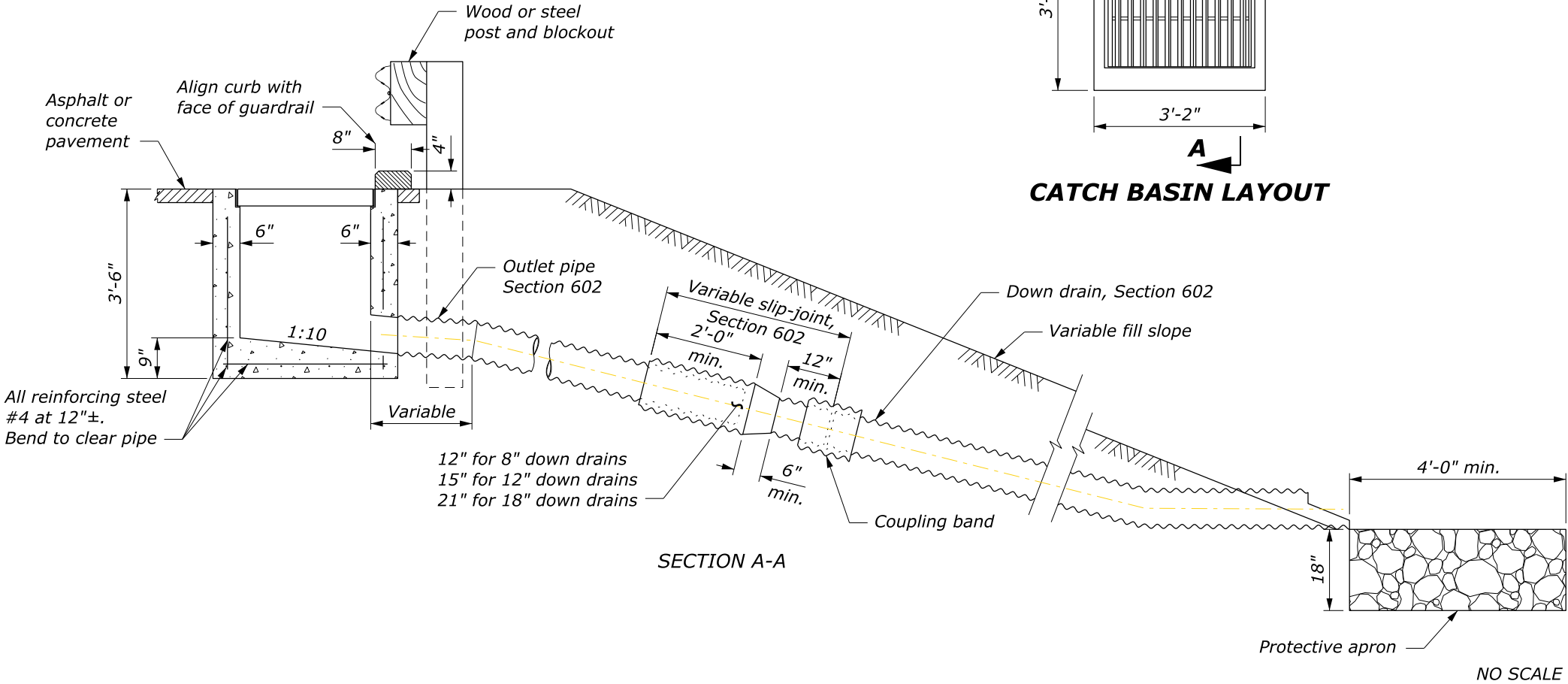


CATCH BASIN LAYOUT



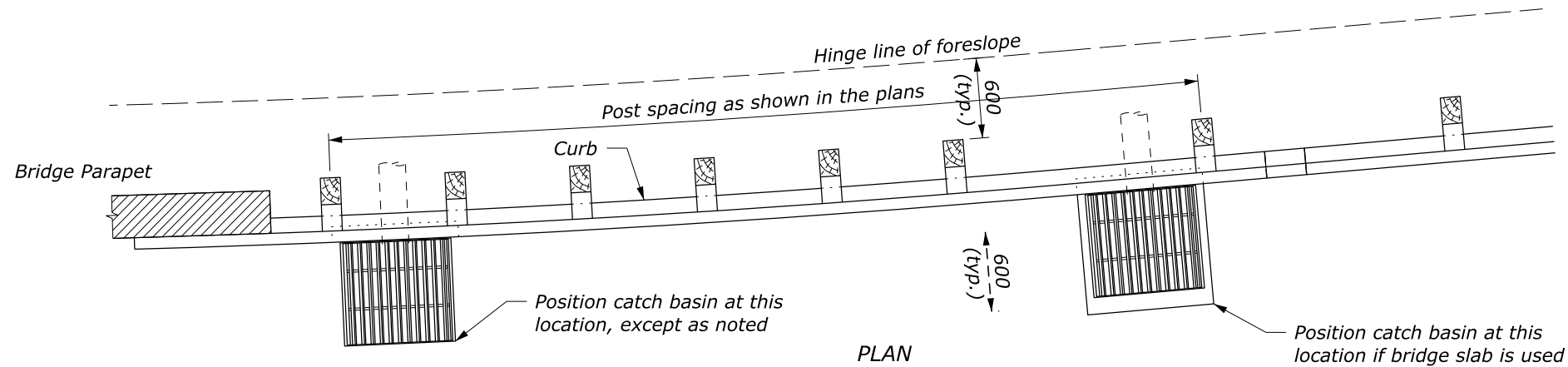
PLAN

PROTECTIVE APRON



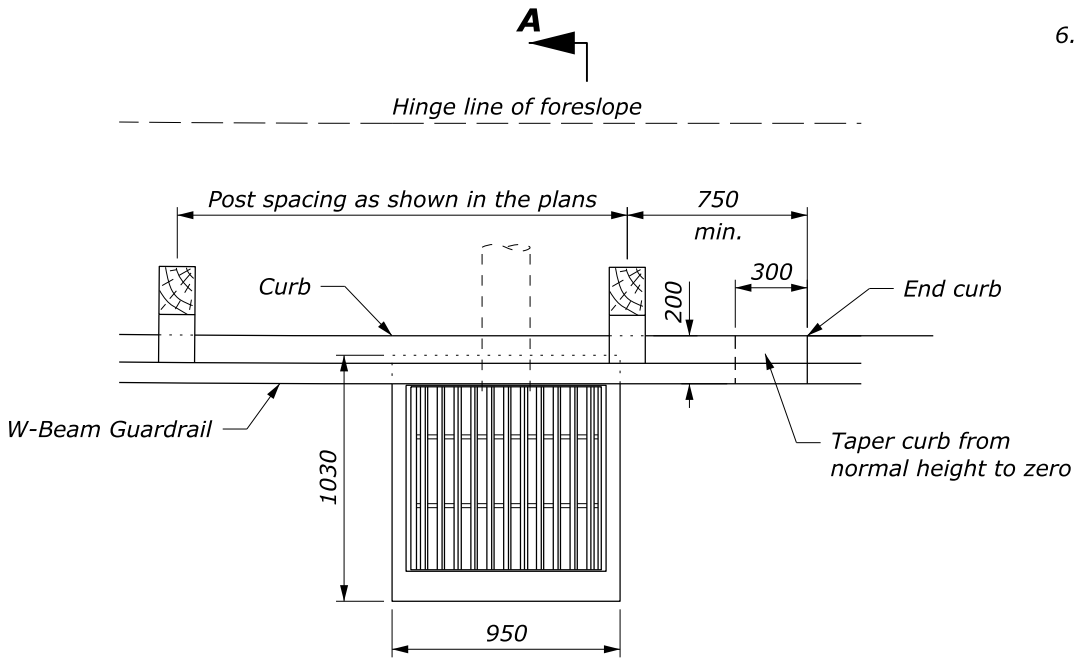
SECTION A-A

|                                                                            |                                                             |
|----------------------------------------------------------------------------|-------------------------------------------------------------|
| U.S. DEPARTMENT OF TRANSPORTATION, FHWA<br>OFFICE OF FEDERAL LANDS HIGHWAY | FLH STANDARD<br>604-4                                       |
| CATCH BASIN<br>TYPE 2<br>WITH DOWN DRAIN                                   | SPECIFICATION<br>FP-14, FP-24<br>APPROVED FOR USE<br>1/2024 |

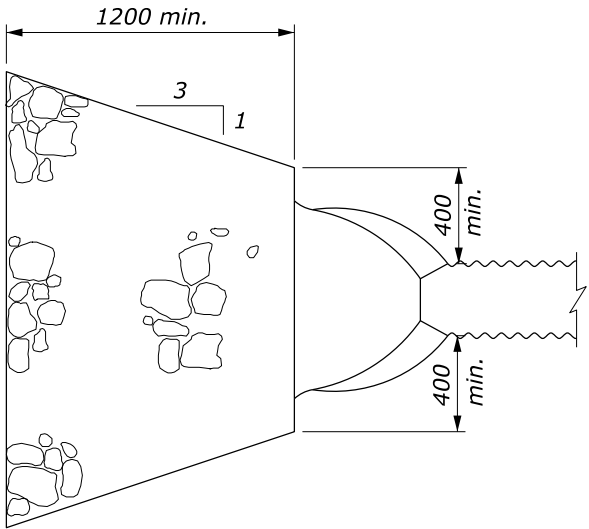


CATCH BASIN LAYOUT AT BRIDGE ENDS

| TABLE OF QUANTITIES |                 |        |
|---------------------|-----------------|--------|
| DESCRIPTION         | FRAME AND GRATE |        |
|                     | TYPE A          | TYPE B |
| Reinforcing Steel   | 32 kg           | 32 kg  |
| Structural Steel    | 98 kg           | 108 kg |
| Concrete            | 0.6 m³          | 0.6 m³ |

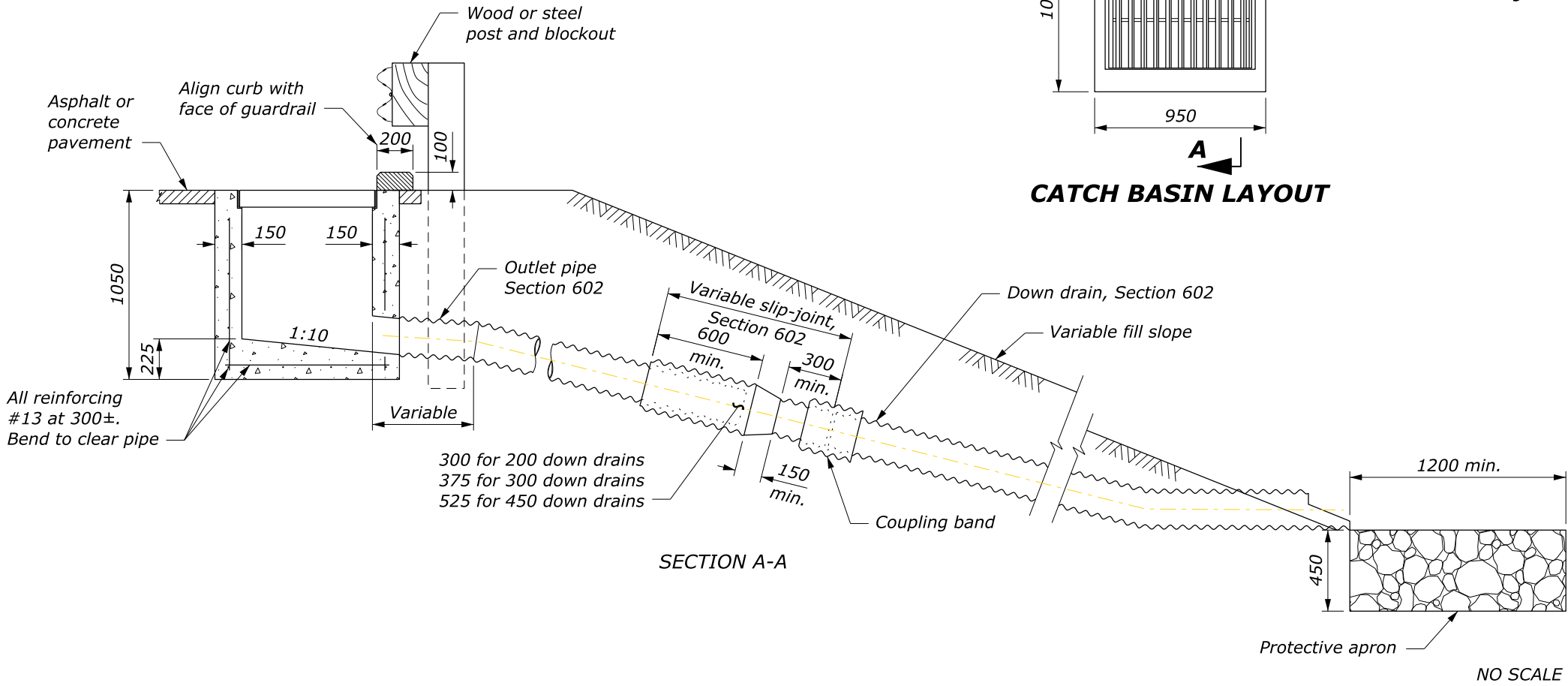


CATCH BASIN LAYOUT



PLAN

PROTECTIVE APRON



SECTION A-A

NOTE:

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

This drawing contains **Metric** units of measure. Dimensions without units are millimeters.

|                                                                            |                               |
|----------------------------------------------------------------------------|-------------------------------|
| U.S. DEPARTMENT OF TRANSPORTATION, FHWA<br>OFFICE OF FEDERAL LANDS HIGHWAY | FLH STANDARD<br>M604-4        |
|                                                                            | SPECIFICATION<br>FP-24, FP-14 |
|                                                                            | APPROVED FOR USE<br>1/2024    |
| CATCH BASIN<br>TYPE 2<br>WITH DOWN DRAIN                                   |                               |