I. CONSTRUCTION

A. Centerline and Block Monuments

1. Firm Soil
   3/4" nominal iron pipe (1.05" O.D.) or No. 5 steel rebar 36" long.
   Metal cap at least 1-3/8" in diameter.
   No more than 4" protruding from ground.
   Mound of stones if available.

2. Solid Rock
   1-3/8" diameter metal tablet with 1-1/2" long shank countersunk in rock and grouted with "Por-Rok", epoxy cement, or equal, as shown in Figure 1-a.

3. Loose soil, Sand, Marsh, etc.
   Monuments shall not be set, but shall be witnessed.

4. Monuments Within Streets or Roads.

   a. 3/4" nominal iron pipe or No. 5 rebar 36" long.
      Metal cap at least 1-3/8" in diameter.
      Monuments set within roadway areas shall be placed so that their tops are 6 to 8 inches below the final road surface.

   b. At the time a road is paved, all such monuments within the paved area shall be fitted with cast iron monument boxes as shown in Figure 2.

   c. Any monuments set after a road or street is paved shall also be provided with monument boxes.

   d. Perimeter or block monuments which shall have to be moved for road or street construction shall be referenced with at least two distance ties and three independent pairs of line ties as shown in Figure 3, and shall be reset from these reference marks as soon as practicable after road or street earthwork is completed, and preferably before paving.

B. Lot Markers and Reference Marks

1. Firm Soil
   No. 5 steel rebar 24" long.

2. Concrete Walks or Curbs
   3/4" diameter blind rivet with 1/4" diameter shank, 1/2" long.

3. Solid Rock
   Blind rivet as in sub-section 2 above, or 1/4" diameter by 3" long iron bar grouted in drilled hole 2" deep.

C. Bench Marks

1. 1-3/8" diameter metal tablet with 1-1/2" shank set in solid bedrock or concrete bridge abutment which is scheduled to remain in service for at least ten (10) years (see Figure 1-b), or cast in place monument as shown in Figure 4.

2. Bench marks shall not be attached to sidewalks or curbs.

3. Bench marks shall not be set closer than 20 feet from the edge of any existing or proposed excavation.

4. Each bench mark shall be built within a street or road right-of-way or on other dedicated land in a location that will not be disturbed by site grading or road construction.

NOTE: Construction standards given above are minimum. More massive and durable monuments are permitted.

II. MARKINGS

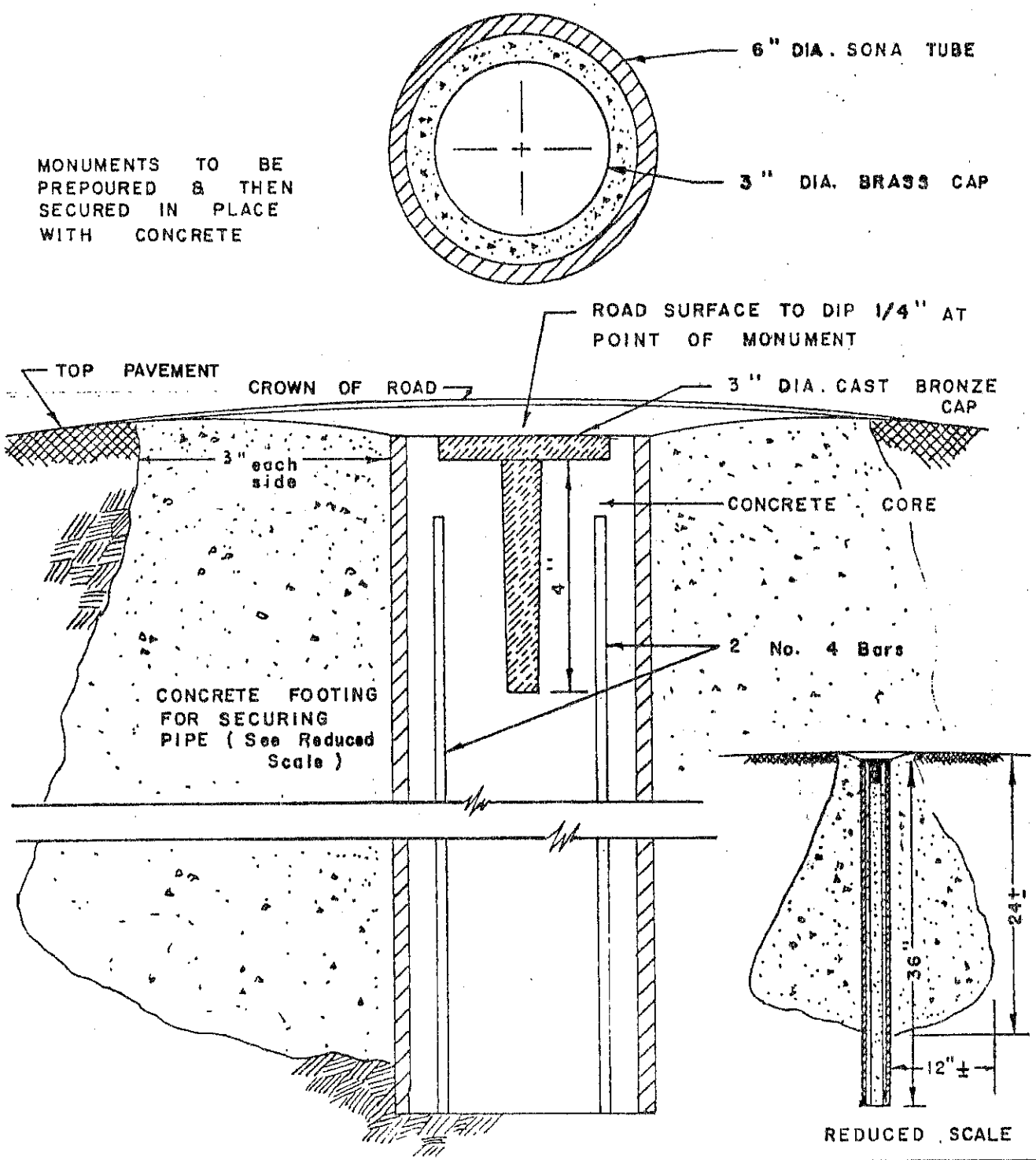
A. General.

All monuments, markers, and bench marks shall have affixed securely to the top thereof the registration number of the land surveyor responsible for the establishment of such monument, marker, or bench mark.

B. Aliquot Corners

Aliquot corners within the Public Land Survey System shall be marked with the Bureau of Land Management designation pursuant to Chapter IV ofthe "Manual of Instructions for the Survey of the Public Lands of the United States, 1947", except that the date may be omitted.

C. Bench Marks

Bench marks shall be stamped with the letters "B.M." and the elevation.

TYPICAL MONUMENT