Attachment 10

Photographic Documentation of Setting an NGS 3-D Geodetic Control Monument



Potsdam Airport, NY 1988

Set By Curt Smith, NGS Photos By Arnold Mason Regional Party Chief, NYSDOT

TO GENERAL GUIDANCE AND SPECIFICATIONS FOR AERONAUTICAL SURVEYS VOLUME A

FEDERAL AVIATION ADMINISTRATION AIRPORT SURVEYS



Initial Site Selection



Digging the 43" deep hole; 12"- 14" diameter for the top 22" in depth, and 3"- 6" diameter for the bottom 21" (Note, Dirt removed with a wheelbarrow)



12" Diameter Hole



Mark Setting Truck and Equipment

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Finishing 12" X 48" Hole (Note, Safe distance from runway)



Starting Stainless Steel Rod



Driving the SS Rod to Refusal



Cutting the SS Rod 3" Below Ground Level with Hydraulic Cutter



Rounding and Smoothing the Top of SS Rod with Grinder



Preparing 1" PVC Greased Filled ("Finned") Sleeve



Greased Sleeve in Place Over SS Rod



Backfilling Bottom 2 Feet of Hole with Washed Sand



Finished SS Rod and Sand in Place (Note, SS rod centered)



Stamping Station Designation



Gluing Logo Cap to 5" or 6" PVC Pipe



Preparing Hole For 5" or 6" PVC Pipe



Placing Bottom of 24" Long, 5" or 6" PVC Pipe Into the Sand



PVC Pipe Backfilled with Sand to Within 1" of Greased Sleeve



Concrete Mixed to Finish Hole Note, Area Kept Clean



Temporary Cover in Place to Keep Concrete Off Logo Cap



Backfilling Remainder of Hole with Concrete



"Shaking" PVC Pipe to Help Settle Concrete



Trowling Smooth Top of Concrete Note, No Concrete on top of Logo Cap



Finished Monumet, Cap Open

Note: Very Neat Appearance, SS Rod Centered in PVC,

PVC Centered in Concrete,

Concrete Round (Not "Mushroom" Shaped),

No Concrete on Logo Cap,

No Concrete on the Ground



Finished Monument, Cap Closed



Storing Equipment, Site Clean-up