

EXHIBIT B – EQUIPMENT, FIELD TESTING & REPORTING REQUIREMENTS

CITY OF PHOENIX STREET TRANSPORTATION MATERIALS TESTING LABORATORY

TABLE 1 – SAMPLING & TESTING EQUIPMENT REQUIREMENTS		
Requirement		
Calibrated sand cone equipment (sand and cone, jar, plate, calibrated sand)		
Calibrated Speedy moisture gauge equipment (Speedy scale and reagent)		
Calibrated scale		
Equipment to dig sand cone hole (spoon, screw driver, brush, hammer)		
Screens (#10, #4, ¾", 3" for rock corrections)		
Concrete equipment (slump cone, slump plate, 5/8" diameter rod, 3/8" diameter rod, measuring device, small and large scoop)		
One-point Proctor equipment (4" & 6" diameter mold, 5-lb & 10-lb Proctor hammer, metal straight edge, family of curves)		
Calibrated nuclear density gauge (calibrated against sand cone and asphalt cores)		
Shovels (square and spade)		
Thermometers (asphalt and concrete)		
Wheelbarrow		
Sample containers (metal buckets for asphalt, plastic buckets/sample bags for soils)		
Sample plate for asphalt		
Technician Expectations Packet		
Current City of Phoenix card (ACI/ATTI)		
Personal Protective Equipment: hard hat (ANSI/ISEA Z89.1), steel-toed boots (OSHA 1910.136), safety vest (ANSI/ISEA Z107-2004, Class 2 or 3), safety glasses (ANSI/ISEA Z87.1), gloves		

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TABLE 2 – ACCEPTANCE FIELD TESTING & REPORTING REQUIREMENTS		
A nuclear density gauge correlated with a sand cone test every tenth test with, at least, one a day per material type.		
A correlated nuclear gauge can be used in acceptance testing. Any failed tests will be re-tested by sand cone test ONLY. Any nuclear density tests disputed by the contractor or City inspector will be verified by a sand cone test.		
A moisture comparison for nuclear gauge, speedy moisture gauge, and oven dried sample will be performed at least once a week per material type.		
All paperwork is to be submitted by the next working day. Handwritten and/or incomplete submittals will not be accepted and will be returned.		
The daily inspection report is to include the number of hours on site and the type of tests performed and is to be turned in by the next working day.		
All applicable ASTM, AASHTO, MAG and ADOT test methods should be followed.		
Notify the City inspector and City of Phoenix Materials Lab personnel immediately of any non-compliance item during testing.		
The same technician is to be maintained on projects. The City of Phoenix Materials Lab is to be notified of any substitutions prior to reassignments.		