

STREET TRANSPORTATION DEPARTMENT
DESIGN & CONSTRUCTION MANAGEMENT DIVISION
MATERIALS LAB

CITY OF PHOENIX COMPACTION REQUIREMENTS

2024 City of Phoenix Supplements to 2023 MAG

Trench Excavating, Backfilling and Compaction City Supplement Table 601-3

% Moisture +2% to -2 % Optimum Moisture (City Supplement 601.3.2)

City Supplement Table 601-3								
	Minimum Density Required for Trench Backfill							
Backfill Type	Location	Surface to 2' Below Surface	From 2' Below Surface to Top of Initial Backfill	Haunching and Initial Backfill				
I	Under any existing or proposed pavement, curb, gutter, sidewalk, manhole or such construction included in the right-of-way and/or when any part of the trench excavation is within 2' of the above.	100% for Granular 100% for Non- Granular	95%	95%				
II	On any utility easement, street, road or alley right-of- way outside limit (I)	95%	95%	95%				
III	Around any structures or exposed utilities		95% in all cases					

Native Subgrade, City of Phoenix Supplement 301

% Moisture +2 to -2 % Optimum Moisture (301.3)

301.3 Relative Compaction

(A)	Street	Pavement	Section
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(1) Top 6" Subgrade (under ABC)	100% for Arterial Streets/Major Streets
(2) Top 6" Subgrade (under ABC)	95% for Collector/Local Streets
(3) Top 6" Subgrade (under Asphalt/Concrete)	100%
(B) Sidewalks, Curbs, Gutters, ADA Ramps, Driveways, Driveway Entrances	95%
(1) Marginally Expansive (340.3.1)	90% (Optimum to +3)
(2) Expansive	Treat or Remove & Replace
(C) Manholes (Surface to 2' Below Surface)	100% (City Supplement Table 601-3 2015

Untreated Base, (ABC) City of Phoenix Supplement 310

% Moisture +2 to -2 % Optimum Moisture (310.3)

(1) Manholes (Under and Around)

(B) Below Portland Cement Concrete Pavement, Driveways, Curb & Gutter,

Asphaltic Concrete Paving City of Phoenix Supplement 321, 325, and 326

(Asphalt cores required to check gauge calibration and/or at inspectors request) MAG 321.10.1

Table 321-1.1 Asphalt Concrete Mix Temperature at Production Plant					
Type of Asphalt	Minimum Temperature °F	Maximum Temperature °F			
Conventional Asphalt (1/2", 3/4")	285	325			
Polymer Modified Asphaltic Concrete	290	345			

For all pavement surface courses, the surface temperature on which the course is to be placed, shall be a minimum 50 °F and rising. (City Supplement 321.3 and 326.3)

These requirements are for most City of Phoenix Projects. Check individual project plans/specs for job specific requirements.

Revised date: 7/18/2025

95% (City Supplement Table 601-3 2015