

PLANT LEGEND

SYMBOL	BOTANICAL / COMMON NAME	SIZE	MATURE	INSTALL	QTY	REMARKS
	PARKINSONIA FLORIDA BLUE PALO VERDE	36" BOX	30'X30'	10'X8'	51	MULTI
	PARKINSONIA MICROPHYLLA FOOTHILLS PALO VERDE	36" BOX	30'X30'	10'X7'	12	MULTI
	PARKINSONIA X 'AZT' AZT THORNLESS PALO VERDE	36" BOX	30'X30'	10'X7'	43	MULTI
	PROSOPIS VELUTINA VELVET MESQUITE	36" BOX	30'X30'	10'X8'	6	MULTI
	PROSOPIS X COOPERI COOPERI MESQUITE	36" BOX	25'X25'	10' X 8'	35	MULTI
	QUERCUS VIRGINIANA SOUTHERN LIVE OAK	36" BOX	40'X40'	12'X7'	71	HIGH BREAK

SALVAGE PLANT LEGEND

SYM. (COMMON NAME)	QTY.
	6
	22
	1

TREE SHADE STUDY | 3:00 PM

REQUIREMENTS

PER CITY OF SCOTTSDALE 2021 INTERNATIONAL GREEN CONSTRUCTION CODE (IGCC) BUILDING PLAN REVIEW CHECKLIST - COMMERCIAL BUILDING PROJECTS SECTION 501.3.5.1 SITE HARDSCAPE, AT LEAST 50% OF THE SITE HARDSCAPE OF NEW COMMERCIAL BUILDING PROJECTS SHALL COMPLY WITH:

TREES AND VEGETATION PLANTED TO PROVIDE FULL SHADE NO LATER THAN TEN YEARS AFTER PROJECT COMPLETION. THE EFFECTIVE SHADE COVERAGE ON THE HARDSCAPE SHALL BE THE ARITHMETIC MEAN OF THE SHADE COVERAGE CALCULATED AT 10 A.M., NOON, AND 3 P.M. ON THE SUMMER SOLSTICE (JUNE 21ST).

HARDSCAPE AREAS

	ASPHALT (NON SRI COMPLIANT)	+/-201,970 SF
	CONCRETE (SRI COMPLIANT)	+/-77,908 SF
	STABILIZED DECOMPOSED GRANITE (SRI COMPLIANT)	+/-10,000 SF
TOTAL SITE HARDSCAPE		+/-291,939 SF
TOTAL SRI COMPLIANT HARDSCAPE		+/-87,908 SF
TOTAL HEAT ISLAND MITIGATION REQUIRED		+/-145,970 SF
50%(0.50) x +/-291,939 SF		

LANDSCAPE AREAS / SHADE CALCULATIONS

	TREE SHADE LANDSCAPE COVERAGE	
	TREE SHADE HARDSCAPE COVERAGE	+/-74,380 SF
TOTAL SITE SHADE COVERAGE		+/-74,380 SF

MEAN SHADE PROVIDED

SHADE PROVIDED AT 10:00AM	+/-70,990 SF
SHADE PROVIDED AT 12:00PM	+/-48,675 SF
SHADE PROVIDED AT 3:00PM	+/-74,380 SF
MEAN SHADE PROVIDED	+/-64,681 SF
SRI COMPLIANT HARDSCAPE	+/-87,908 SF
TOTAL HEAT ISLAND COVERAGE	+/-152,589 SF
TOTAL HEAT ISLAND MITIGATION PROVIDED IN EXCESS OF REQUIREMENT (INCLUDES SHADE AND HARDSCAPE COMPLIANT MATERIALS)	+/-6,600 SF



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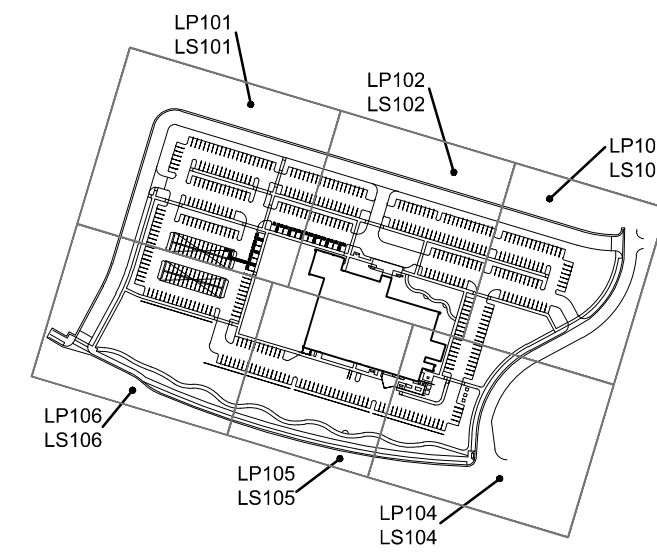
LANDSCAPE ARCHITECT
DUSTIN SIMMONS
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ISSUED FOR	REV	DATE
DRB CITY COMMENTS		18JUN24
DEVELOPMENT REVIEW BOARD		07MAR24

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEY PLAN



SHEET TITLE

TREE SHADE STUDY
3:00 PM

PROJECT NUMBER 14303.000

DRB_LP100.3

SHEET NUMBER



CALL PRIVATE UTILITY LOCATOR TO LOCATE PRIVATE UTILITIES

