

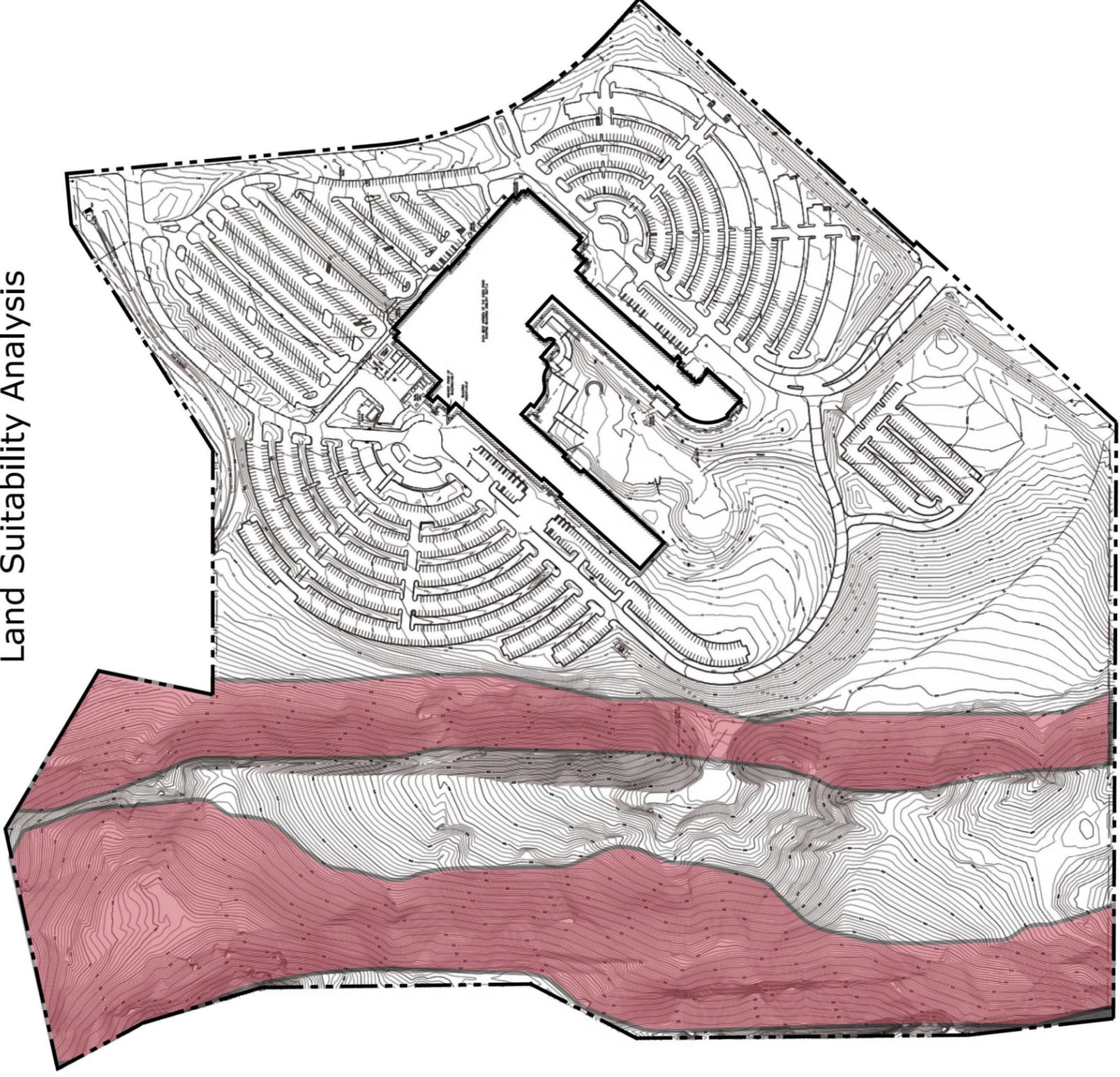
2424 Garden of the Gods Road

CITY OF COLORADO SPRINGS, COLORADO

Land Suitability Analysis

KEY

Landslide Susceptibility
Zone



Landslide Susceptibility Source: White, J. and Warr, T.C. 2003. Map of Potential Areas of Landslide Susceptibility in Colorado Springs, El Paso County, Colorado. Colorado Geological Survey, Map Series 42.



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2424 Garden of the Gods Road

DATE: 9/29/2020
PROJECT MGR: [Redacted]
PREPARED BY: N. Brower

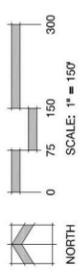
LAND SUITABILITY ANALYSIS

DATE:	BY:	DESCRIPTION:

GEOLOGICAL CONSTRAINTS

2 OF 8

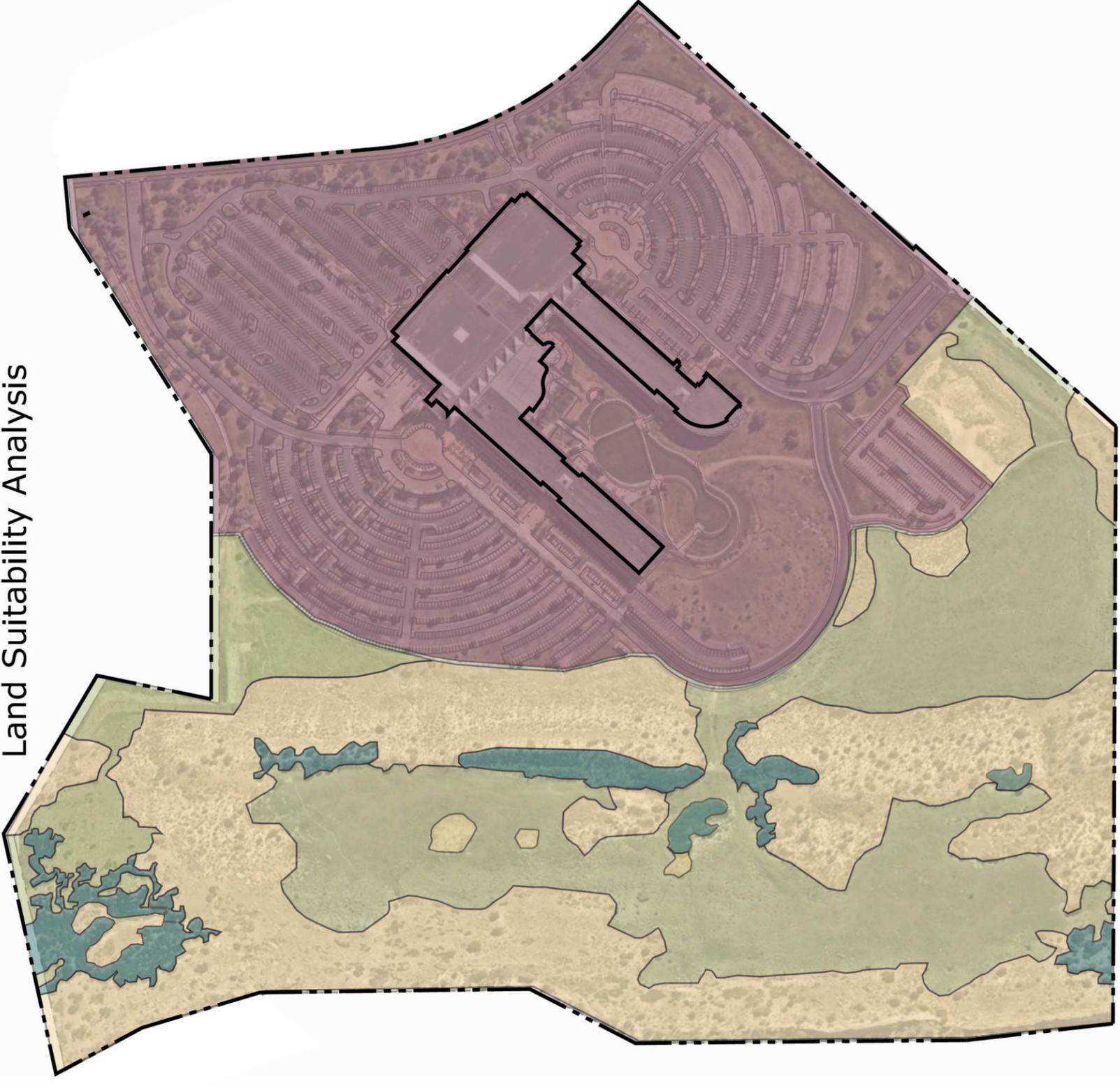
PLAN FILE # CPC CP 20-00128



2424 Garden of the Gods Road

CITY OF COLORADO SPRINGS, COLORADO

Land Suitability Analysis



- KEY**
- FOOTHILL SHRUBLANDS
 - PRAIRIE
 - EXISTING DEVELOPMENT
 - PINON-JUNIPER WOODS



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DATE: 9/29/2020
 PREPARED BY: Andrew N. Brown

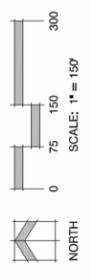
LAND SUITABILITY ANALYSIS

DATE	BY	DESCRIPTION

VEGETATION

3 OF 8

CPC CP 20-00128



Vegetation Analysis Source: Aerial photography showing existing vegetation. Google Earth, esdm.google.com/web/
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Land Suitability Analysis



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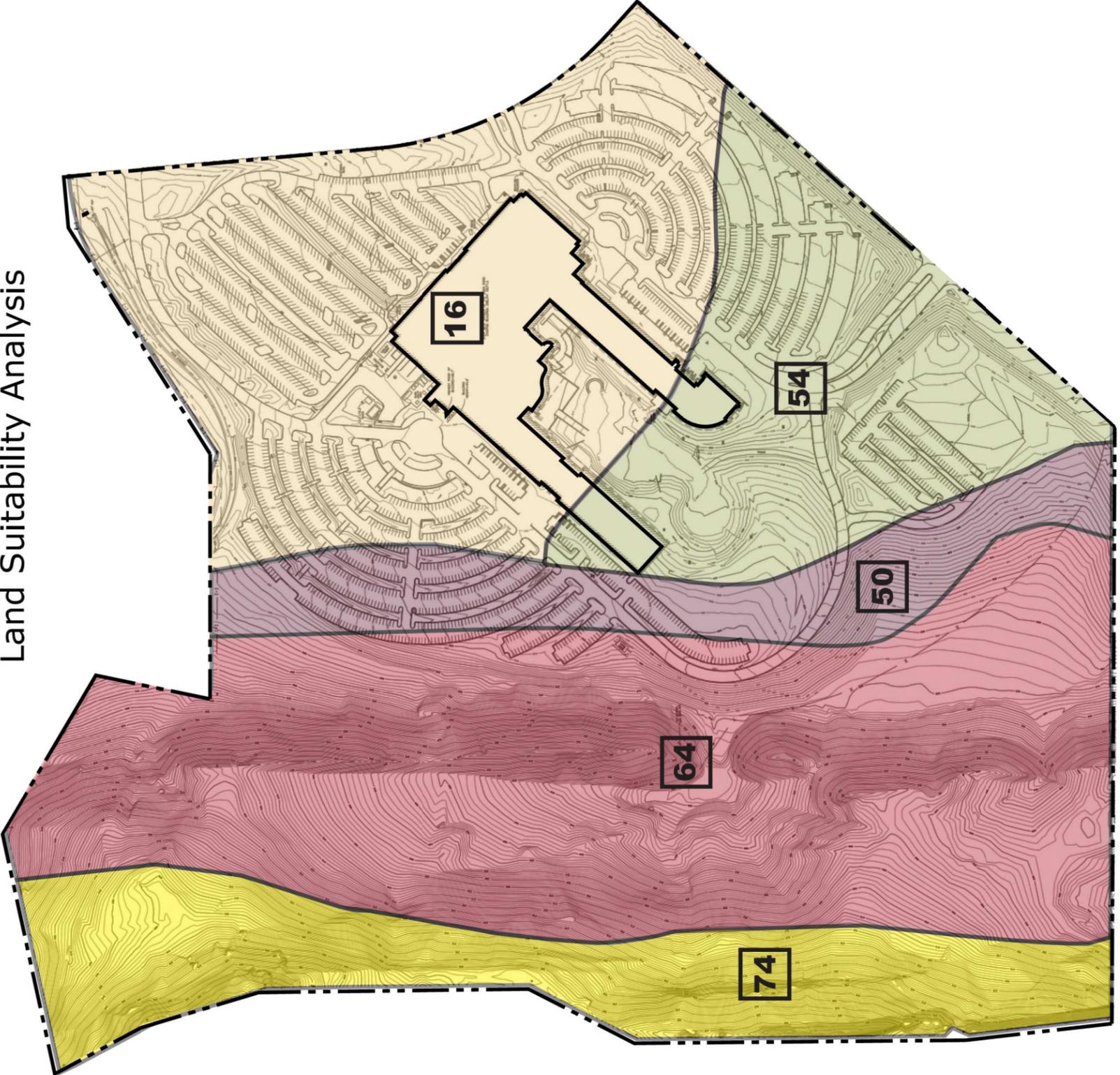
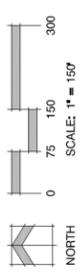
LAND SUITABILITY ANALYSIS

DATE: BY: DESCRIPTION:

SOIL ANALYSIS

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PLAN # CPC CP 20-00128



- KEY**
- 16** Chaseville gravelly sandy loam, 1 to 8 percent slopes
29.2% AOI
 - 54** Midway clay loam, 3 to 25 percent slopes
16.6% AOI
 - 50** Manvel Loam, 3 to 9 percent slopes
8.2% AOI
 - 74** Razor stony clay loam, 5 to 15 percent slopes
11.5% AOI
 - 64** Penrose-Manvel complex, 3 to 45 percent slopes
34.5% AOI

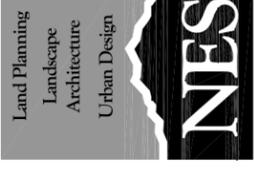
CONCEPT PLAN
03/21 REV

Soils Analysis Source: Natural Resource Conservation Service. September 23, 2016. Web Soil Survey, United States Department of Agriculture. <http://websoilsurvey.sc.egov.usda.gov>

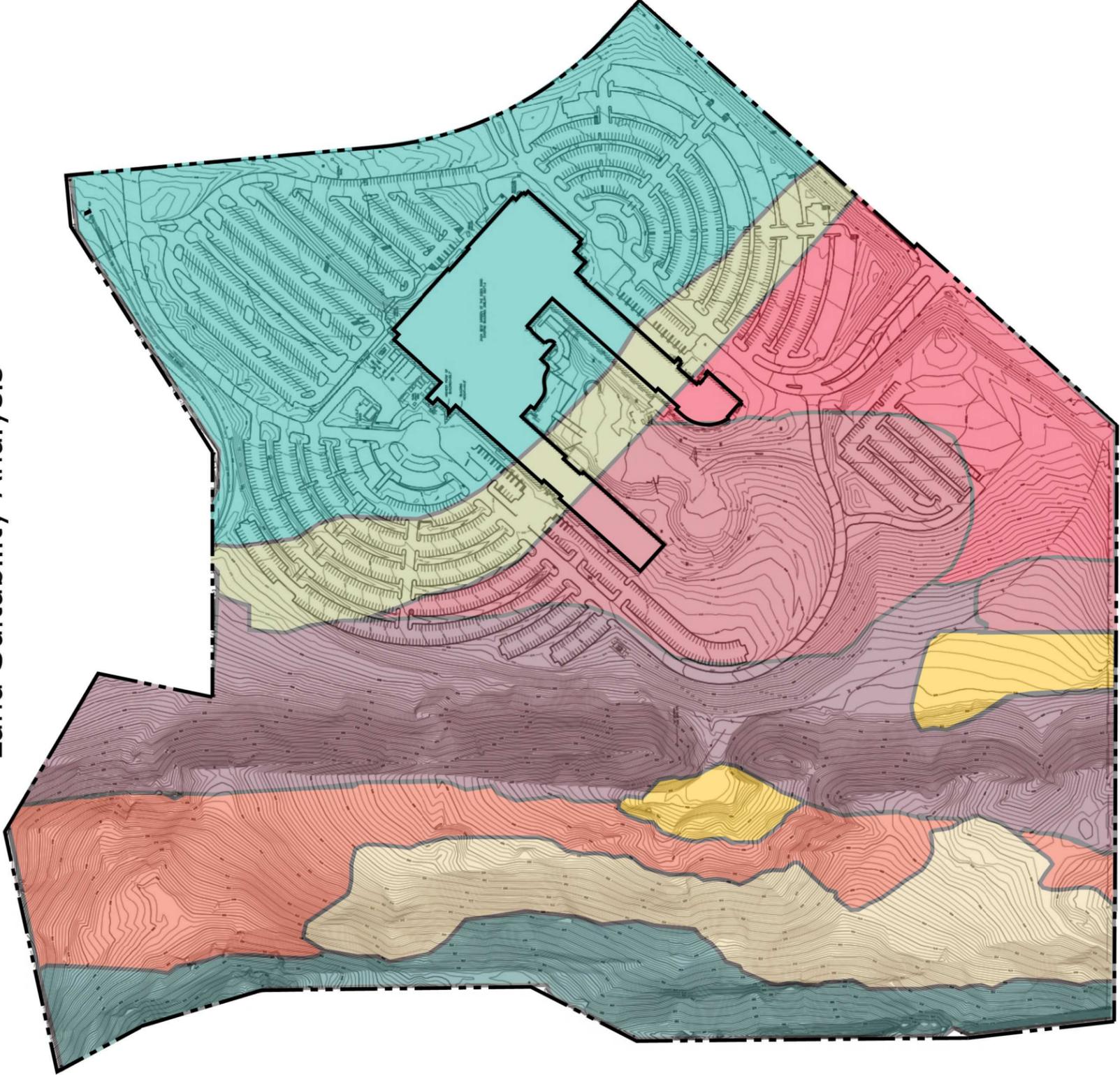
2424 Garden of the Gods Road

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Land Suitability Analysis



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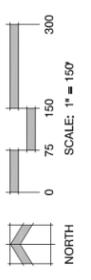
KEY

- QCS** - (COLLUVIUM and SHEETWASH DEPOSITS) Weathered bedrock fragments that have been transported downslope primarily by gravity and sheetwash. Ranges from unsorted, clast-supported, pebble to boulder gravel in a sandy silt matrix to matrix-supported gravely clayey, sandy silt.
- KCGG** - (CARLILE SHALE, GREENHORN LIMESTONE, and GRANEROS SHALE; UNDIVIDED) Soft, poorly exposed marine units. Codell member reach a combined thickness of approximately 220 ft. Greenhorn Limestone is approximately 50 ft. in thickness, and Graneros Shale is approximately 250 ft. in thickness.
- KN** - (NIOBRARA FORMATION) Consists of two members of marine origin, the smoky hill shale member and the underlying fort haves limestone member
- AF** - (ARTIFICIAL FILL) Rip rap, engineered fill, and refuse placed during construction. Generally consists of unsorted silt, sand, clay, and rock fragments.
- KP** - (PIERRE SHALE) Medium to dark gray to black shale beds containing rare thin beds of tan siltstone and beds of fine-grained sandstone. Commonly weathers to soft, friable clay
- QG1** - (PEDIMENT GRAVEL ONE) Light-red to brown, poorly sorted, moderately to poorly stratified pebble and cobble gravel primarily derived from granitic bedrock, as well as layers of clay, silt, sand and clay clasts derived from shaly bedrock
- QFY** - (YOUNG ALLUVIAL FAN DEPOSITS) Poorly sorted to moderately sorted, matrix supported, gravely, sandy silt, to clast-supported, pebble, cobble, and boulder gravel in sandy silt or silty sand matrix
- KD** - (DAKOTA SANDSTONE) Interbedded buff, yellow gray quartz sandstone and gray shale beds, approximately 10 ft thick
- QAC** - (ALLUVIUM and COLLUVIUM) Stream channel, terrace, and flood-plain deposits along valley floors of ephemeral. Typically composed of poorly to well sorted, stratified, interbedded, pebbly sand, sandy silt, and sandy gravel.

Geological Analysis Source:
Morgan, Matthew L.; Siddoway, Christine S.; Rowley, Peter D.; Temple, Jay; Keller, John W.; Hawking, Archuleta, Bonny, and Himmelreich, John W. Jr. 2003. *Geologic Map of the Cascade Quadrangle, El Paso County, Colorado*. Colorado Geological Survey, Map of 03-18

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CONCEPT PLAN
03/21 REV



LAND SUITABILITY ANALYSIS

DATE: BY: DESCRIPTION:

GEOLOGICAL ANALYSIS

5 OF 8

CPC CP 20-00128

2424 Garden of the Gods Road

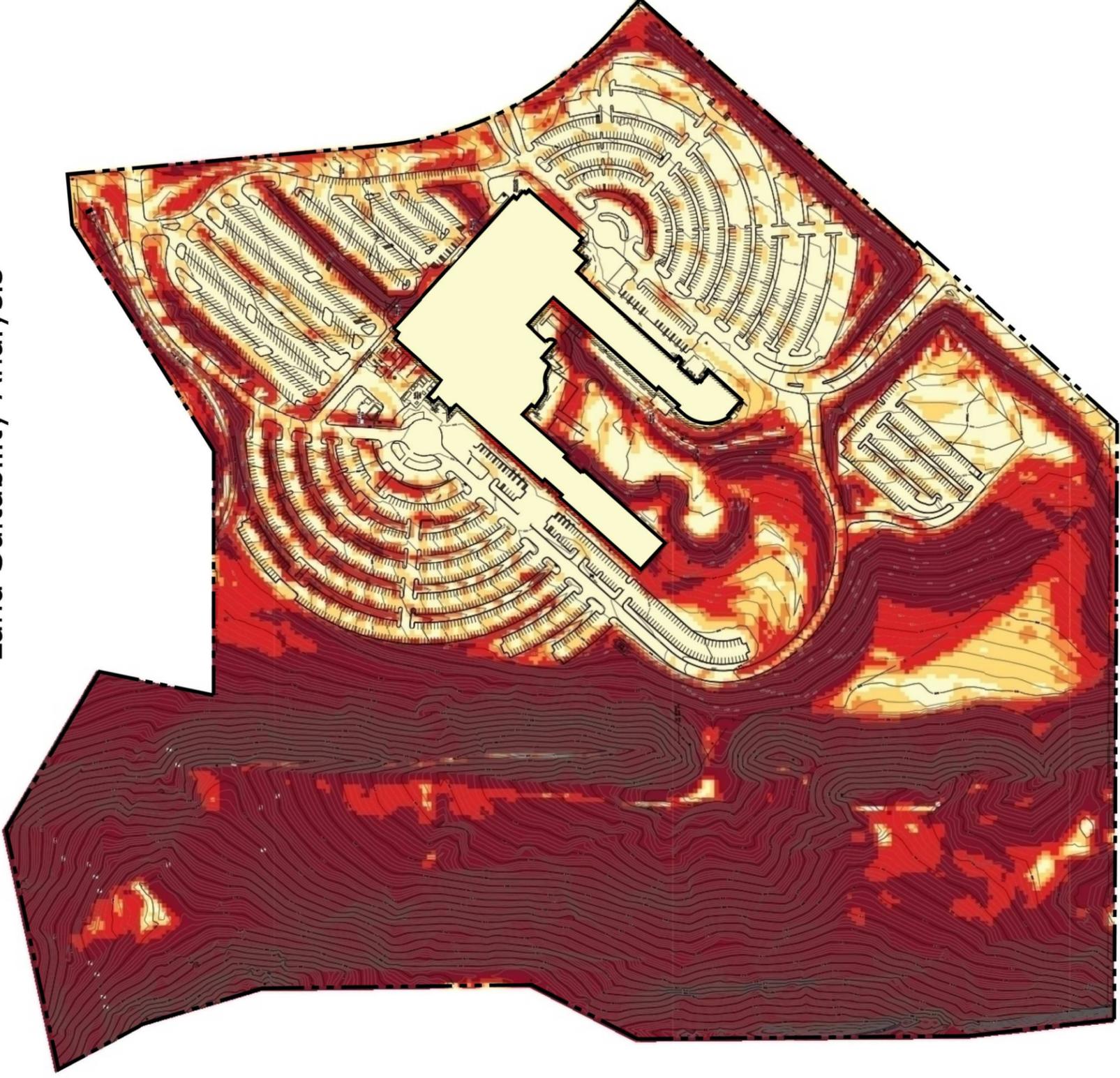
DATE: 9/29/2020
PROJECT NO: 2424
PREPARED BY: N. Brower

2424 Garden of the Gods Road

CITY OF COLORADO SPRINGS, COLORADO

Land Suitability Analysis

KEY
SLOPE PERCENTAGE



Slope Analysis Source:
 NES, Inc., 2424 Garden of the Gods Slope Analysis, [Esri ArcGIS®, AutoCAD 2018
 Topographic Survey provided by Clark Land Surveying Inc., 1"=150', Colorado Springs, CO,
 October 5th, 2020.
 Slope Analysis Map was created using the Spatial Analyst Toolset ArcGIS® software by Esri.
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Land Planning
 Landscape
 Architecture
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2424 Garden
 of the Gods
 Road

DATE: 9/29/2020
 PROJECT MGR: N. Brower
 PREPARED BY: N. Brower

LAND SUITABILITY
 ANALYSIS

DATE:	BY:	DESCRIPTION:

SLOPE
 ANALYSIS

6
 OF 8

PLAN FILE #
 CPC CP 20-00128

