Oregon's Family Town

## CITY OF CORNELIUS COMMUNITY DEVELOPMENT DEPARTMENT SUPPLEMENTAL STAFF REPORT

## U-Haul -COMMERCIAL DEVELOPMENT <br> Type III Site Design Review <br> Type III Conditional Use Permit

## Land Use File Numbers DR-70-23 and CUP-02-03

## Planning Commission Hearing Date: February 27, 2024

 Supplemental Staff Report Date: February 27, 2024Request: A Type III Site Design Review (DR-70-23) and Type III Conditional Use Permit (CUP-02-23) to redevelop a commercially zoned property and build a new three-story self-storage facility that will be 38.6-feet in height (3.6-feet taller than the height standard of the zone). The development will include a three-story 94,764-sf building for a U-Haul moving and storage facility. The new building will have 843 interior storage spaces of various sizes, a 2,483-sf showroom/retail area, a 1,460-sf Delivery \& Receiving (D\&R) area, a new parking lot, landscaping, a water quality facility, and new frontage improvements.

| Applicant: | Shannon Marvin, MCP <br> Lance Blades, Marketing President <br>  <br>  <br>  <br> 2727 N Central Avenue | Property <br> Owner: | Mary Delfs <br> 2962 Baseline Street |
| :--- | :--- | :--- | :--- |
|  | $\quad$ Phoenix, AZ 85004 |  | Cornlius, OR 97113 |

Process: Approval of a Type III Site Design Review, Type III Conditional Use Permit and Type II Land Partition with public hearing shall be processed consistent with Cornelius Municipal Code (CMC) Section 18.15.010(C), a Type III Planning Commission Review. The application shall be processed with notice and a public hearing before the Planning Commission
pursuant to CMC Chapter 8.15.040. The notice of the Planning Commission’s decision shall be provided to the applicant, interested parties, and anyone that testifies in the matter.

## APPEAL RIGHTS

An affected party may appeal a decision of the Planning Commission to the City Council by filing an appeal within ten (10) working days of notice of the decision pursuant to the CMC. The notice of appeal shall indicate the decision that is being appealed and include all required contents pursuant to CMC Chapter 18.15.090.

## APPLICABLE CRITERIA OF THE CORNELIUS MUNICIPAL CODE

- Chapters 18.10 \& 18.15 (Application \& Review Procedures)
- Chapter 18.45 (Highway Commercial, C-2)
- Chapter 18.100 (Site Design Review)
- Chapter 18.105 (Conditional Use Permit)
- Chapter 18.143 (Transportation Facilities)
- Chapter 18.145 (Off Street Parking and Loading)
- Chapter 18.155 (Solar Access for New Development)

Chapter 18.155 Solar Access for New Development is the sole subject of this Supplemental Staff Report. This section was inadvertently missed in the original staff report.

### 18.155.040 Access to Sunshine.

The elements of a development plan shall be located and designed, to the maximum extent feasible, to protect access to sunshine for planned solar energy systems or for solar-oriented rooftop surfaces that can support a solar collector or collectors capable of providing for the anticipated hot water needs of the buildings in the project between the hours of 9:00 am and 8:00 pm PST on December 21st.
The project can support solar-oriented rooftop arrays to provide solar energy or power for hot water needs of the building. There is sufficient space and the solar arrays available in today's market place can be oriented to maximum the solar gain.
18.155.050 Shading.
(A)The physical elements of the development plan shall be, to the maximum extent feasible, located and designed so as not to cast a shadow onto structures on adjacent property greater than the shadow which would be cast by a 25-foot hypothetical wall located along the property lines of the project between the hours of 9:00 am and 3:00 pm PST on December 21 ${ }^{\text {st }}$.

The following picture identifies the latitude and longitude of the project site.

## Assessment \& Taxation Report

General Property Information

| Site Address: | . CORNELIUS OR, 97113 |
| :--- | :--- |
| Tax Lot ID: | 1N334DD07700 |
| Property Account ID: | R755837, |
| Property Classification: | 2210 -- See full list of Codes |
| Neighborhood Code: | ZFGC |
| Latitude / Longitude: | $45.5208522 /-123.035139$ |

The National Oceanic and Atmospheric Administration has a Solar Position Calculator on their web site. The following two charts are copied from that website and depict the solar position for the largest of the two tax lots in question. The first chart is for 9:00 am and the second chart is for 1500 hours, or 3:00 pm.



Note: To manually enter latitude/longitude, select Enter Lat/Long -> from the City pulldown box, and enter the values in the text boxes to the right


Calculate Solar Position


Using an obstruction shading calculator, a 25 foot height wall with the sun at 23.44 degrees (same solar declination for both times) would need a minimum distance of 57.7 feet to avoid shading. For a 38.6 foot building, the distance is 89 feet, while a 35 foot building is 80.7 feet. Based on analysis using the aerial view of the property and a GIS application, the yellow line on the next page is approximately 89 feet from the new proposed building.

## Obstruction Shading Calculator

Calculate The Allowed Distance Between an Obstruction To Your Panels


Please provide the following information:
$\square$ $a=$ Sun Angle (degrees)
$-23.44$

Result:

The northern portion of the closest building would be shaded, however; the southern exposure (where you would place solar) would not be shaded as the building is set back beyond the roof pitch line.


Page $\mathbf{4}$ of 5
18.155.050 Shading.
(B)The impact of trees shall be evaluated on an individual basis considering the potential impacts of the shading and the potential adverse impacts that the shading could create for the adjacent properties in terms of blocking sunlight in indoor living areas, outdoor activity areas, gardens, and similar spaces benefiting from access to sunlight.

No new trees are proposed that would potentially block sunlight to any of the adjacent properties.

Date of Supplemental Staff Report: February 27, 2024


Barbara Fryer, AICP, Community Development Director

Exhibits: Applicant's submittal dated 02_27_2024

- Preliminary Landscape Plan (updated 2_27_2024)
- Solar Shadow Exhibit (dated 02_27_2024)




