MADRAS 657, 1910

PLANNING COMMISSION MEETING

Wednesday, January 17, 2024 at 6:30 PM

City Council Chambers, 125 SW "E" Street, Madras, OR 97741

Telephone (541) 475-2344 www.ci.madras.or.us

This meeting is open to the public. Audio/Video of the meeting will be available on our website within 24 hours following the meeting. This agenda includes a list of the principal subjects anticipated to be considered at the meeting. However, the agenda does not limit the ability of the Commission to consider additional subjects. Meetings may be canceled without notice. Zoom participants should use the "raise your hand" feature during the public comment portions of the meeting to alert the moderator that they would like to speak.

Zoom Link:

https://us02web.zoom.us/j/89158939359?pwd=9SriNOpzLXhLOlsJZvfqG2a61Sf6C7.1

Dial: 253-215-8782

Meeting ID: 891 5893 9359

Passcode: 465328

MADRAS PLANNING COMMISSION AGENDA

- I. Call Meeting to Order
- II. Roll Call
- III. Public Hearing(s)
 - Stone Oak Zone Change, File No. ZC-23-1
 - A. Opens Public Hearing
 - B. Planning Commission Chair reads Quasi-Judicial statement
 - C. Staff Report
 - D. Applicant Testimony
 - E. Proponent Testimony
 - F. Neutral Testimony
 - G. Opponent Testimony
 - H. Applicant Rebuttal Testimony
 - I. Close Public Hearing
 - J. Planning Commission Deliberation

Nicholas Snead, Community Development Director

- IV. Additional Discussion
- V. Adjourn Meeting

CITY OF MADRAS Request for Planning Commission Action

Meeting Date: January 17, 2024

To: Planning Commission Members

From: Nicholas Snead, Community Development Director

Subject: Stone Oak Zone Change, File No. ZC-23-1.

TYPE OF ACTION REQUESTED:

Postpone to a certain date

MOTION(S) FOR CONSIDERATION:

I move to continue the public hearing for File No. ZC-23-1 to February 21, 2024 at 6:30 PM.

OVERVIEW:

Momentasize, LLC, et al., (applicant) have filed requests for a Zone Change of the subject property from R-1 to R-3. Since the applicant filed the application on September, 15, 2023 the applicant has been considering alternatives to the requested zone change. It wasn't until recently that the applicant affirmed that they would like to pursue the requested zone change. Accordingly, staff has not prepared the necessary findings of compliance. As a result, staff will request that the Planning Commission open the public hearing on January 17, 2024, accept public comments, and continue the hearing to February 21, 2024.

STAFF ANALYSIS:

The applicant has proposed a zone change of the subject property (11-13-01CA-2203) from Moderate Family Residential (R-1) to Planned Residential (R-3) to allow a 60 unit residential development to be permitted. Staff has issued the required adjacent property owner, newspaper public hearing, and agency notices. The proposed zone change is subject to compliance with the Transportation Planning Rule (OAR 660-12-0060) and the applicant has submitted a TIA and a revised TPR analysis to demonstrate compliance with these Rules. At the February 21, 2024 Planning Commission hearing staff will provide findings for the Planning Commission to consider utilizing, for a decision on the proposal.

FISCAL INFORMATION:

N/A

SUPPORTING DOCUMENTATION:

City of Madras Community Development Department Burden of Proof

November, 2023

Applicant/Property Momentasize LLC, VDV Properties & Ann Marie van der Velde,

Owner: Dirk van der Velde

Map & Tax Lot: 11-13-1CA-2203

Address: Unaddressed

Permits Required: Zone Change, Site Plan, Subdivision, Zoning Review & Building Permits

Property Zoning: R-1

Proposal: Zone Change from R-1 to R-3, Four Lot Subdivision and Site and Design

Review for a 60 unit Apartment Development.

Statewide Land Use Goals

- Oregon's Statewide Land Use Planning Goals 1, 2, 5, 6, 7, 8, 10, 11, 12, and 13

Oregon Administrative Rules

- 660-012-0060 (Transportation Planning Rule)

Madras Comprehensive Plan

- Goals 1, 2, 5, 6, 7, 8, 10, 11, 12, and 13
- Administrative Provisions for Quasi-Judicial Revisions
- Madras Transportation System Plan (No. 926)
- Madras Parks Master Plan (2019)

Madras Public Improvement Design & Construction Standards, Title 12.45

Madras Development Code, Title 18

- MDC 18.10: Basic Provisions
- MDC 18.15: Land Use Zones
 - MDC 18.15.040: Moderate density residential (R-1), higher density residential (R-2), and planned residential development (R-3).
- MDC 18.20: Public Improvement and Site Development Standards
- MDC 18.25: Supplementary Provisions
- MDC 18.30: Special Standards for Certain Uses
 - o MDC 18.30.190: Residential Design Standards
- MDC 18.35: Signs (only if the applicant is proposing signs as part of the application)

- MDC 18.40: Zoning Review, Site Plan Review, and Design Review
- MDC 18.60: Land Divisions, Replats and Property Line Adjustments
- MDC 18.75: Amendments
- MDC 18.80: Administrative Provisions

NOTE: See Applicable Criteria section of this document for the specific criteria that may apply to the proposed development.

MADRAS DEVELOPMENT CODE APPROVAL CRITERIA

Chapter 18.10: BASIC PROVISIONS SECTION 18.10.010 Compliance with Development Code provisions.

- (1) No building (or part of a building) may be erected, moved, or altered, and no lot may be altered, unless the action conforms with the regulations herein specified for the zone in which it is located, except as otherwise provided herein.
- (2) No permit for construction or alteration of any building may be issued unless plans, specifications, and intended uses of such building have first been submitted and on file with the Community Development Department and conform in all respects with the provisions of this Development Code.
- (3) No land may be divided, unless and until the person proposing the land division, or his authorized agent or representative, has made application in writing to the City and the City determined the proposed land division is in compliance with the requirements and procedures established by this Development Code.
- (4) If state or federal law provides some higher or different approval criteria, the applicant must demonstrate compliance with such state or federal law. [Ord. 933 § 2.1, 2019.]

Applicant Response: The applicant understands the provisions of the development code and intends to comply as detailed in this narrative.

SECTION 18.10.020 Preexisting approvals.

- (1) Legality of Preexisting Approvals. Developments, including subdivisions, projects requiring development review or site design review approval, or other development applications for which applications were filed prior to the effective date of the ordinance codified in this Development Code, and which have not legally expired, may occur pursuant to such approvals except that modifications to development approvals must comply with MDC 18.80.290, Modification of Approval. All conditions of preexisting approvals shall apply.
- (2) Subsequent Development Applications. All development proposals and applications received by the Community Development Director after the adoption of any applicable land use regulation codified in this Development Code are subject to review for conformance with the

standards under this Development Code or as otherwise provided by state or federal law. [Ord. 933 § 2.2, 2019.]

Applicant Response: A land use application for a 10 lot subdivision was previously approved under file number SD-23-1. The Zone Change, Subdivision and Site Plan proposals included in this application are intended to replace the pre-existing approval, which is still valid.

SECTION 18.10.030 Building permit and certificate of occupancy.

- (1) Building Permit. A building permit shall not be issued until a land use approval has been issued in accordance with the provisions of this Development Code, unless the Community Development Director has otherwise found that a land use approval is not required.
- (2) Certificate of Occupancy Required. To ensure completion of a development or use in the manner approved, a development must not be occupied and a use must not begin until the Building Official has issued a certificate of occupancy following completion of the work in substantial conformance to the applicable land use and building permits.
- (3) Prior to Final Completion. Prior to the final completion of all work, a temporary certificate of occupancy may be issued for a portion of the structure conditioned upon further work being completed by a date certain. [Ord. 933 § 2.3, 2019.]

Applicant Response: The applicant understands that a separate building permit review and approval is required and that occupancy will not be granted until a certificate of occupancy has been issued.

SECTION 18.10.040 Illegal occupancy.

Any use of premises or a building which deviates from or violates any of the provisions of this Development Code shall be deemed an illegal occupancy and the persons responsible shall be subject to the penalties herein provided. [Ord. 933 § 2.4, 2019.]

Applicant Response: The applicant understands the penalties associated with illegal occupancy.

SECTION 18.10.050 Enforcement.

- (1) Administration. It is the duty of the Community Development Director to enforce the provisions of the Development Code.
- (2) Building Permits. No building permit shall be issued for any development that does not conform to the requirements of the Development Code or to any property that is currently in violation of the Development Code.

- (3) Authority. Whenever necessary to enforce the provisions of this Development Code, the Community Development Director may pursue any remedy provided by law, without prejudice to any other available remedy, including, without limitation, entering into voluntary compliance agreements with the violator.
- (4) Violation of this Development Code as a Nuisance. The construction, erection, location, enlargement, or use or change in use of any structure or property in violation of this Development Code of those conditions and limitations approved pursuant to the provisions of this Development Code is deemed a nuisance and may be enjoined, abated, or removed pursuant to the procedures set forth in the City's nuisance ordinance, Chapter 8.15 MMC.

Applicant Response: The applicant understands and will comply with the requirements of this section.

- (5) Code Enforcement and Land Use.
 - (a) Except as described in subsection (5)(d) of this section, if any property is in violation of this Development Code, any other City ordinance, and/or the conditions of approval of any land use decisions or building permits previously issued, the City shall not:
 - (i) Approve any land use permit;
 - (ii) Make any other land use decision, including land divisions and/or property line adjustments; or
 - (iii) Authorize issuance of a building permit.
 - (b) As part of the application process, the applicant must certify:
 - (i) That to the best of the applicant's knowledge, the subject property, including any prior development phases of the property, is currently in compliance with both the Development Code and any prior land use approvals for the development of the property; or
 - (ii) That the application is for the purpose of bringing the property into compliance with the Development Code and/or prior land use approvals.
 - (c) A violation means the property has been determined to not be in compliance either through a prior notice or decision by the City or other tribunal, through the review process of the current application, or through an acknowledgement by the alleged violator in a signed voluntary compliance agreement.
 - (d) A permit or other approval, including building permit applications, may be authorized if:

- (i) It results in the property coming into full compliance with all applicable provisions of federal, state, or local laws, including, without limitation, the Development Code;
- (ii) It is necessary to protect the public health or safety;
- (iii) It is for work related to and within a valid utility or right-of-way easement over, on, or under the affected property; or
- (iv) It is for emergency repairs to make a structure habitable or a right-of-way passable.
- (e) Public Health and Safety.
 - (i) For the purposes of this section, "public health and safety" means the actions authorized by the permit would cause abatement of conditions found to exist on the property that endanger life, health, personal property, or safety of the residents of the property or the public.
 - (ii) Examples of that situation include, but are not limited to, issuance of permits to replace faulty electrical wiring; repair or install furnace equipment; roof repairs; replace or repair compromised utility infrastructure for water, sewer, fuel, or power; and actions necessary to stop earth slope failure.

Applicant Response: The applicant understands that permits and decisions may be withheld if the property is in violation of the Development Code.

- (6) Revocation for False Statement. The Planning Commission may revoke any permit granted pursuant to the provisions of this Development Code if it is determined that the permit was issued on account of false statements contained in the application form or false representations made at a public hearing.
- (7) Revocation for Nonconformance. The Planning Commission may revoke any permit granted pursuant to the provisions to this Development Code for failure to comply with those conditions and limitations placed upon the exercise of the permit.
- (8) Revocation Hearing. A public hearing held pursuant to the provisions in Chapter <u>18.80 MDC</u> must be held prior to revocation of a permit.
- (9) Who May Request Revocation Hearing. A revocation hearing shall be held by the Planning Commission at the request of the Community Development Director or an interested person who has reasonable cause to believe that the provisions of this Development Code have been violated.

- (10) Penalties for Violation.
 - (a) A violation of any provision of this Development Code, with each violation constituting a separate offense, is punishable upon conviction by:
 - (i) A fine of not more than one hundred dollars (\$100.00) for each day of violation where the offense is a continuing offense; or
 - (ii) A fine of not more than five hundred dollars (\$500.00) where the offense is not a continuing offense.
 - (b) The remedies available under this subsection are not exclusive of any other remedies available under any applicable federal, state, and/or local laws, regulations, and/or ordinances. It is within the discretion of City to seek cumulative remedies for a violation of the Development Code. [Ord. 933 § 2.5, 2019.]

Applicant Response: The applicant understands the implications of nonconformance and the associated penalties for violation of the Development Code.

SECTION 18.10.060 Official documents.

Official land use regulation documents including, without limitation, the City's Zoning Map and this Development Code, are kept at Madras City Hall. Because land use regulations are amended from time to time, interested parties are advised to consult the official documents. [Ord. 933 § 2.6, 2019.]

Applicant Response: The applicant has consulted with City Staff for the most current zoning maps and development code.

SECTION 18.10.070 Fees authorized.

The City is authorized to collect appropriate fees for services performed by the Community Development Department and for all applications and proceedings authorized under this Development Code. Fees are established by the City Council by resolution. Payment of fees must be made prior to the City initiating the requested service or submitting the desired application. [Ord. 933 § 2.7, 2019.]

Applicant Response: The applicant understands that fees must be paid prior to any review of the submitted applications.

SECTION 18.10.080 Codification.

This Development Code is a codification of all land use regulations adopted by the City of Madras. Despite the adoption date of the Development Code, each land use regulation

contained herein shall retain the effective date of the ordinance in which it was originally adopted. References in other City ordinances to "Zoning Ordinance" or "Subdivision and Partition Ordinance" and similar references shall refer to this Development Code. All ordinances adopted by the City of Madras are maintained at City Hall and should be consulted to determine the effective date of a particular land use regulation. [Ord. 933 § 2.8, 2019.]

SECTION 18.10.090 Interpretation.

- (1) Purpose Statements. Any purpose statements included in this Development Code are only for context and should not be construed as independent approval criteria requiring findings.
- (2) Most Restrictive Regulations Apply. Where the provisions of this Development Code conflict with comparable standards described in any other ordinance, resolution, or regulation, the most restrictive regulations shall govern.
- (3) As used in this Development Code, the singular includes the plural and the masculine includes the feminine and neuter; the word "may" is discretionary, the words "shall," "must," and "will" are mandatory. [Ord. 933 § 2.9, 2019.]

Applicant Response: The applicant understands that the most restrictive regulations apply when there are comparable standards elsewhere.

SECTION 18.10.100 Severability.

The provisions of this Development Code are severable. If any section, sentence, clause, or phrase of this Development Code is adjudged by a court of competent jurisdiction to be invalid, the decision shall not affect the validity of the remaining portions of the Development Code. [Ord. 933 § 2.10, 2019.]

Chapter 18.15: LAND USE ZONES

SECTION 18.15.010 Establishment of zoning districts and overlay designations.

This Development Code hereby establishes the following land use zoning districts and overlay designations. Overlay designations establish supplemental regulations that supersede any conflicting regulation applicable to the primary zoning district. They are as follows:

ZONE	DESIGNATION
Moderate Density Residential	R-1
Higher Density Residential	R-2

DECIGNIATION

ZONE	DESIGNATION
Planned Residential Development	R-3
Corridor Commercial	C-1

[Ord. 968 § 2.5 (Exh. E), 2022; Ord. 933 § 3.1, 2019; Ord. 898 § 3, 2017.]

Applicant Response: The property is currently zoned R-1 – Moderate Density Residential and the applicant is proposing a zone change to R-3 – Planned Residential Development.

SECTION 18.15.020 Location of zones.

The boundaries of the zones listed in this Development Code are indicated on the Madras Zoning Map, which is hereby adopted by reference. The boundaries may be modified in accordance with Zoning Map amendments pursuant to this section and will be adopted by reference. [Ord. 933 § 3.2, 2019.]

Applicant Response: The applicant is proposing a modification to the boundary of the R-3 Zone to include the subject property.

SECTION 18.15.030 Zoning district boundaries.

Unless otherwise specified, zoning district boundaries are lines that may also be identified as lot lines, centerlines of streets, alleys, canal or railroad rights-of-way, watercourses, ridges or rimrocks, or other readily recognizable or identifiable natural features. Whenever any uncertainty exists as to the boundary of a zone as shown on the Zoning Map, the following regulations shall control:

- (1) Where a zoning district boundary line is indicated as following a street, alley, canal, or railroad right-of-way, it shall be construed as following the centerline of such right-of-way.
- (2) Where a zoning district boundary line follows or approximately coincides with a section line, lot, or property ownership line, it shall be construed as following such line.
- (3) If a lot is split with two or more zoning district boundaries, the primary or predominant (which covers a majority of the lot) zoning district shall be the governing zone. The Community Development Director shall determine the governing zone. [Ord. 933 § 3.3, 2019.]

Applicant Response: The applicant is proposing a zone change to the entire 3.5 acre parcel. The new R-3 zoning would follow the property lines as depicted in the planning drawings.

SECTION 18.15.040 Moderate density residential (R-1), higher density residential (R-2), and planned residential development (R-3).

- (1) Purpose Statements.
 - (a) The intent of the R-1 zone is to create, maintain, and promote residential neighborhoods, including:
 - (i) To provide for larger lot sizes; and
 - (ii) To allow a broad range of housing types while providing for essential development and design standards.
 - (b) The intent of the R-2 zone is to create, maintain, and promote residential neighborhoods with a mix of uses that serve as a buffer between commercial and residential zones, including:
 - (i) To provide multi-unit dwellings and middle housing in close proximity to existing commercial uses to provide for easier access to goods and services for residents; and
 - (ii) To allow a broad range of housing types while providing for essential development and design standards.
 - (c) The intent of the R-3 zone is to recognize and enhance areas of scenic quality and view amenities, including:
 - (i) To allow for flexibility in project design while providing for essential development standards;
 - (ii) To encourage development which is sensitive to the natural topography of the site, minimizes alterations to the land, and maintains and enhances significant natural resources;
 - (iii) To provide for projects which are compatible with surrounding developments; and
 - (iv) To facilitate circulation systems designed to be efficient and well-integrated with the City's overall circulation system without dominating the project.

Applicant Response: The applicant is proposing a zone change from R-1 to R-3. The proposed change will allow better use of the natural topography by reducing the alterations to the land. The R-1 Zone is limited no more than four units per building and 30 feet in total building height.

The amount of grading required to build four unit buildings, with the associated parking, utilities and retaining walls, is not economical or feasible for this site. A previous tentative plat application (intended for fourplex units) was submitted and approved but was not constructed due to the associated development costs.

The project site is adjacent to existing multi-family developments on the east and west property lines, which are zoned R-2. The northwest portion of the site is adjacent to single family homes that are in the R-3 Zone and the St. Charles Madras campus is located across Oak Street to the south.



The project proposes three single family lots with a new private street which will connect to the proposed apartment development. As designed, the project will provide needed housing and is compatible with surrounding developments.

- (2) Uses.
 - (a) Types of Uses. For the purposes of this section, there are three types of uses:
 - (i) A permitted use (P) is a use which is permitted outright subject to zoning review or site plan approval, as applicable, and to all of the applicable provisions of this code. If a

use is not listed as a permitted use, it may be held to be a similar unlisted use under the provisions of MDC <u>18.80.320</u>.

- (ii) A conditional use (C) is a use which must be approved at the discretion of the Planning Commission and subject to site plan approval, and to all of the applicable provisions of this code. The conditional use specific approval process and criteria are set forth in Chapter 18.65 MDC. If a use is not listed as a conditional use, it may be held to be a similar unlisted use under the provisions of MDC 18.80.320.
- (iii) A prohibited use (X) is one which is expressly prohibited in the zone. In addition, uses not specifically listed as permitted or conditional in MDC Table 18.15.040-1, or which are deemed to be similar uses pursuant to MDC 18.80.320, are also prohibited.
- (b) Use Table. A list of permitted, conditional, and prohibited uses in residential zones is set forth in MDC Table 18.15.040-1.

Table 18.15.040-1. Uses in the R-1, R-2, and R-3 Zones

				11 the K 1, K 2, and K 3 2011c3
Uses	R-1	R-2	R-3	Limitations and qualifications
Residential living	Р	Р	Р	See MDC Table 18.15.040-2 for permitted housing types.
Residential home facilities	Р	Р	Р	In accordance with ORS <u>197.665</u> (e.g., adult foster care).
Residential care facilities	X	Р	Р	In accordance with ORS <u>197.665</u> (e.g., adult foster care).
Accessory structure	P/C	P/C	P/C	Accessory structures under 950 square feet are outright permitted; accessory structures 950 square feet or over require conditional use approval. Shipping containers, rail cars, semi-trailers and similar structures may not be used for temporary (or permanent) storage on parcels occupied by a dwelling unit.
Bed and breakfast	С	С	С	See MDC <u>18.30.080</u> .
Churches	С	С	С	
Day care	Р	Р	Р	
Home occupations	С	С	С	See MDC <u>18.30.090</u> .
Lodges or civic organizations	С	С	Χ	
Medical and dental clinics, hospitals, sanitariums, rest	С	С	Х	Medical and dental clinics, hospitals, sanitariums, rest homes, homes for the aged,

Uses	R-1	R-2	R-3	Limitations and qualifications
homes, homes for the aged, nursing homes, or convalescent homes				nursing homes or convalescent homes are defined conditional uses.
Model homes	P	P	Р	Allowed only after construction plans have been approved by the City Public Works Director; occupancy and use are prohibited until documentation has been received by the City Public Works Director that the utilities have been connected.
Public buildings	С	С	X	Such as libraries, fire stations, police stations, offices for governmental uses, museums, and schools. Libraries, fire stations, museums, and schools are the only conditional uses permitted in the R-1 zone. Schools are the only conditional use permitted in the R-3 zone.
Public parks, recreation areas, and community centers	Р	Р	Р	Subject to site plan review.
Public utilities, except for communication towers	С	С	Х	Necessary public utilities and public services with safeguards against harm to adjacent or abutting residential property as required by the Planning Commission.

Applicant Response: The project proposes residential living uses (single family homes and apartment units) which are outright permitted in the R-3 Zone.

(3) Housing Types.

(a) Types of Housing Units. For the purposes of this section, all types of permitted housing are listed in MDC Table 18.15.040-2 below. See MDC 18.05.030, Definitions, for specific descriptions of the housing types listed in the table. Minimum lot sizes noted for specific housing types apply only to new lots of record. Existing nonconforming lawfully established lots are permitted to develop housing types permitted in the applicable zone as long as all development standards in MDC Table 18.15.040-3 can be met.

Table 18.15.040-2. Housing Types in the R-1, R-2, and R-3 Zones

Residential Use Category	R-1	R-2	R-3	Limitations and qualifications
Accessory dwelling unit	Р	Р	Р	(a) Permitted in conjunction with one single detached dwelling.
Townhouse	Р	Р	Р	 (a) See MDC <u>18.30.191</u>, Townhouse design and development standards. (b) See MDC <u>18.30.190</u>, Residential design standards.
One to three dwelling units, attached or detached	Р	Р	Р	 (a) Permitted on lots 5,000 square feet or greater, per MDC <u>18.50.030</u>. (b) See MDC <u>18.30.190</u>, Residential design standards.
One to four dwelling units, attached or detached	Р	Р	Р	(a) Permitted on lots 7,500 square feet or greater.(b) See MDC <u>18.30.190</u>, Residential design standards.
Cottage cluster	Р	Р	Р	 (a) See MDC <u>18.30.192</u>, Cottage cluster design and development standards. (b) See MDC <u>18.30.190</u>, Residential design standards.
Apartments	Р	Р	Р	 (a) Permitted on lots 7,500 square feet or greater (first four units), plus 1,000 square feet for each additional dwelling unit in R-1. (b) Permitted on lots 6,000 square feet or greater (first four units) plus 1,950 square feet for each additional dwelling unit in R-3.
				(c) Apartments in the R-1 zone are limited to no more than four units per structure, no more than 30 feet in height, no single façade on any single structure may exceed a width of 60 feet, and no more than 24 units in total. (d) See MDC 18.30.190, Residential design standards.

Applicant Response: The proposed lots are intended for single family residences and apartment buildings. Both types of residential units are outright permitted in the R-3 Zone and meet the required lot sizes associated with each use.

(4) Development Standards. In the R-1, R-2, and R-3 zones, the development standards in MDC Table 18.15.040-3 apply. The standards in MDC Table 18.15.040-3 are not applicable to cottage

cluster development or townhouse development. See development standards for these housing types in MDC $\underline{18.30.191}$ and $\underline{18.30.192}$.

Table 18.15.040-3. Development Standards in the R-1, R-2, and R-3 Zones

	Resid	ential 2	Zones				
Standard	R-1	R-2	R-3	Limitations and Qualifications			
A. Lot Size Requirements							
Minimum lot size (square feet)	7,500	7,500	6,000	Minimum lot size in this table applies to all new lots of record except for lots created as part of townhome or cottage cluster developments. For permitted housing types on this lot size see MDC Table 18.15.040-2 above. See MDC 18.50.030.			
2. Maximum lot coverage (percent of total lot area)	50%	50%	50%	See definition of lot coverage in MDC 18.05.030, Definitions, for explanation of what portions of a building on a lot are included.			
3. Minimum density (dwelling units per gross acre)	4	4	7	A land division with the residential zones may create a remainder development lot in excess of one-half (1/2) acre only if approved as part of a phased subdivision.			
B. Development Standards							
1. Minimum setbacks (feet)							
a. Front		12					
b. Side		5		In the R-3 zone, apartments must be set back			
c. Rear		5		15 feet from side and rear property lines.			
d. Garage loaded from a street	20						
e. Garage loaded from an alley	0 or 20			If off-street parking spaces are provided in front of garage, they must be of adequate length to accommodate a full vehicle length to avoid overhang in the right-of-way.			
2. Building height							
a. Minimum building height (feet)	none						

	Residential Zones					
Standard	R-1	R-2	R-3	Limitations and Qualifications		
b. Maximum building height (feet)	35	45				
3. Side yard height plane (feet)						
a. Maximum height at minimum required side yard depth (feet)	20	25	20	For illustration of the side yard height plane development standard, see MDC <u>18.05.030</u> , Definitions.		
b. Slope of plane (degrees)	45	45	45			

Applicant Response: The proposal includes lots that are intended for single family homes and apartment buildings. As detailed on the Tentative Plan, all lots meet the minimum square footage (6,000 sf) and are in conformance with this section.

The minimum density in the R-3 Zone is 7 units per acre and the maximum is 21.7 units per acre.

- Total Site Area = 3.5 acres
- Proposed Units = 63 (3 Single Family Homes and 60 apartment units)
- Density = 18 units per acre

All required building setbacks are shown on the Tentative Plat and Site and Utility Plans. The proposed height of the apartment buildings, as detailed on the architectural plans, is 39'-1-1/2", which is less than the maximum permitted height of 45 feet.

(5) Design Standards. All new one to four dwelling units, accessory dwelling units, townhouses, cottages, and apartments must comply with the design standards found in MDC 18.30.190. Townhomes, apartments, and cottages must also comply with design standards in MDC 18.40.020, Site plan review, and MDC 18.40.030(7), Standards for Approvals for Needed Housing. Additional design standards apply to townhouses and cottage clusters. See MDC 18.30.191 and 18.30.192. Expansions of structures that add area to any street-facing façade are subject to MDC 18.30.190(3)(b)(i). Remodels that convert an attached garage are subject to MDC 18.30.190(3)(b)(ii).

Applicant Response: Design Standards for the proposed apartment buildings are addressed in subsequent sections of this narrative.

- (6) Off-Street Parking Regulations.
 - (a) See MDC Table <u>18.25.050</u>-1, Required Vehicle Parking.

Applicant Response: Vehicle Parking is provided and the standards are addressed in Section 18.25 of this narrative.

- (7) Sanitation Regulations. Before any structure receives a certificate of occupancy, it must be connected to the City sewer system if the structure is within 300 feet of an existing public sewer line.
- (8) Water Regulations. Before any structure receives a certificate of occupancy, it must be connected to the City water system unless authorized by the City for connection to an adjoining water system.

Applicant Response: New public water and sewer mains will be constructed in the proposed private street. Water and sewer services will be stubbed to each of the proposed lots prior to recording of the final plat. The site will be served by Deschutes Valley Water District and City of Madras sewer.

(9) Flood Hazard Areas. Any structure proposed to be located in the flood hazard area must meet the standards of the Federal Emergency Management Agency (FEMA) and Chapter <u>18.45</u> MDC.

Applicant Response: The subject property is not located in a flood hazard area. This criteria does not apply.

(10) Lighting. All lighting must comply with the outdoor lighting standards. [Ord. 968 § 2.5 (Exh. E), 2022; Ord. 955 § 2.1 (Exh. B), 2021; Ord. 945 § 2 (Exh. B), 2020; Ord. 933 § 3.4, 2019.]

Applicant Response: Site lighting is proposed throughout the development as shown on the architectural plans.

SECTION 18.15.050 Multifamily residential (R-2).

Repealed by Ord. 968. 18.15.060 Planned residential development (R-3).

Applicant Response: The R-2 Zone criteria does not apply to this project.

Chapter 18.20: PUBLIC IMPROVEMENT AND SITE DEVELOPMENT STANDARDS

SECTION 18.20.010 Compliance required.

All development must be in compliance with this chapter. The term "public improvement standards" is not intended to be limited to publicly owned improvements but to any improvements governed or regulated by this chapter. [Ord. 968 § 2.6 (Exh. F), 2022; Ord. 933 § 4.1, 2019.]

Applicant Response: This section is a Purpose Statement and it does not contain any measureable approval criteria or development standards.

SECTION 18.20.020 Streets.

- (1) Access. No development may occur unless the development has frontage or approved access to a public or private street and the following standards are met:
 - (a) Streets within or adjacent to a development must be improved in accordance with the design and construction standards.
 - (b) Development of new streets, and additional street width or improvements planned as a portion of an existing street, must be improved in accordance with this section, and public street right-of-way and private street easements must be dedicated to the City.
 - (c) All new and/or existing streets and alleys must be paved per the design and construction standards.

Applicant Response: The development has frontage on NE Oak Street and the proposed private street meets the criteria in sections a, b and c above.

(2) General. The location, width, and grade of streets must be considered in their relation to existing and planned streets, topographical conditions, public convenience and safety, and the proposed use of land to be served by the streets. The street system must assure an adequate traffic circulation system with intersection angles, grades, tangents, and curves appropriate for the traffic to be carried considering the terrain. Subdivisions must provide for the continuation of the principal streets existing in the adjoining subdivision or of their proper projection. Where, in the opinion of the Planning Commission, topographic conditions make such continuation or conformity impractical, exception may be made. In cases where the City has adopted a master development plan, street plan, or plat of a neighborhood or area of which the development is a part, the development must conform to such adopted plans or plat.

Applicant Response: The proposed private street is designed to meet City standards and specifications and has been placed in the portion of the NE Oak Street frontage with the least amount of topography. See Sheet 4.0 Site and Utility Plan for details.

(3) Existing Streets. Whenever existing streets, adjacent to or within a development, are of inadequate width to accommodate the increase in traffic expected from the development or by the City's transportation policies, additional right-of-way must be provided at the time of the land development by the applicant. During consideration of the development, the City Public Works Director will determine whether the improvements to existing streets, adjacent to or within the development, are required. If so determined, such improvements shall be required as a condition of approval of the application. Improvements to adjacent streets shall be required where traffic on said streets is directly affected by the proposed development.

(4) Minimum Right-of-Way and Roadway Width. The street right-of-way and roadway surfacing widths must be in conformance with standards and specifications set forth in the design and construction standards.

Applicant Response: The proposed private street and sidewalk are in a 48.5 foot wide tract, with a 26 foot wide paved width, which is in conformance with the private street standards. See planning drawings for details.

(5) Extension of Streets. Streets must be extended "to and through" the development, meaning that streets meeting the design and construction standards are extended along all frontages. The resulting dead-end streets may be approved without a permanent turn-around.

Applicant Response: The properties adjacent to the project site are developed, which precludes a "to and through" street connection. The proposed private street connects to NE Oak Street and extends north into the site, ending in the proposed apartment development.

(6) Frontage and Access. If a development abuts or contains an existing or proposed collector or arterial street, the Public Works Director shall restrict or limit access by means consistent with the design and construction standards. The Public Works Director may require private streets with access easements, reciprocal access easements, access restriction agreements, reserve strips, or similar requirements to achieve the objectives of this subsection. Provision may be made for emergency access. All private streets and access drives must comply with applicable standards set forth in the design and construction standards.

Applicant Response: The property has approximately 160 feet of frontage on NE Oak Street and the new private street is proposed on the portion of the frontage with the least amount of topography. There is an existing power pole that will need to be relocated and the developer is coordinating with Pacific Power.

(7) Continuation of Streets. New streets or street extensions that constitute the continuation of existing streets in contiguous territory must be aligned along their respective centerlines to produce a straight street. Where straight line continuations are not possible, such centerlines shall be continued as curves. These streets or the continuation of streets in contiguous territory may be required by the Public Works Director where such continuation is necessary to maintain the function of the street or desirable to support development of the surrounding area. Where solar orientation would not be possible if the street area continued, a new pattern acceptable to the Public Works Director may be started that is solar-oriented.

Applicant Response: The proposed private street is not an extension or continuation of an existing street. This criteria does not apply.

(8) Street Layout. Streets should be oriented to form a grid to the greatest possible extent.

(9) Intersection Angles. Street intersections must be as near right angles as possible except where topography requires a lesser angle, but in no case shall the acute angle be less than 60 degrees.

Applicant Response: As proposed, the private street and the new local street intersect at a 90 degree angle. This standard has been met.

(10) Street Names. Except for extensions of existing streets, no street name may be used which will duplicate or be confused with the name of an existing street in a nearby city or in the County. Street names and numbers must conform to the established pattern in the City and are subject to the approval of the Fire Department and Public Works Director.

Applicant Response: The proposed name for the private street is NE Stone Oak Court.

(11) Alignment and Separation. The alignment of streets and the separation distances between streets shall be governed by the design and construction standards. [Ord. 933 § 4.2, 2019.]

Applicant Response: The minimum separation distance for a local street is 150 feet. The closest intersections are 420 feet away (NE Oak Street and NE 12th Street) and 480 feet away (NE Oak Street and NE Hillcrest Street) measured centerline to centerline. The parking lot for the Willow Creek Apartments is approximately 230 feet from the centerline of the proposed local street.

SECTION 18.20.030 Sidewalks and pedestrian amenities.

(1) Sidewalks. Sidewalks are required to be installed along all frontages of the subject property and on both sides of internal streets unless waived by the Public Works Director. The location of the sidewalks, whether curb side or property lines, will be determined by the Public Works Director.

Applicant Response: Sidewalk is proposed along the west side of the proposed private street, throughout the apartment development as well as along the southern property boundary on the north side of NE Oak Street. This standard has been met.

(2) Bicycle Routes/Multi-Use Paths. If appropriate to the extension of a system of bicycle routes and multi-use paths, existing or planned, the City may require the installation of separate bicycle lanes within streets and/or the dedication of easements or rights-of-way for multi-use paths. [Ord. 933 § 4.3, 2019.]

Applicant Response: No bicycle routes or multi-use paths are proposed or required with this project. This criteria does not apply.

SECTION 18.20.040 Frontage and access.

Except as otherwise provided herein, every lot must abut a street (other than an alley) for at least 50 feet and access to all lots or parcels must comply with the access management strategies contained in the Transportation System Plan. Notwithstanding the foregoing, townhome/zero-lot line subdivisions (as defined in MDC 18.60.110) may have as little as 25 feet of frontage, properties abutting a cul-de-sac only require 30 feet of frontage, properties within commercial zones may have as little as 30 feet if access is shared with at least one adjoining property with no less than 30 feet of frontage, and cottage lots within a cottage cluster subdivision need not have any frontage when abutting a public utility easement that connects to a street (to allow for extension of utilities to the lot) and access easements acceptable to City are provided to the cottage lot.

Table 18.20.040.

Type of Development	Minimum Frontage
Regular lot	50 feet
Townhome/zero-lot line subdivision	25 feet
Lots fronting a cul-de-sac	30 feet
Lots in commercial zones	30 feet if access is shared with at least one adjoining property with no less than 30 feet of frontage
Cottage lots in cottage cluster	O feet when abutting a public utility easement that connects to a street (to allow for extension of utilities to the lot) and access easements acceptable to City are provided to the cottage lot

[Ord. 968 § 2.6 (Exh. F), 2022; Ord. 933 § 4.4, 2019.]

Applicant Response: All of the proposed lots meet or exceed the minimum frontage requirements of this section. See Sheet C-3.0 Tentative Subdivision Plat for details.

SECTION 18.20.050 Utilities.

(1) Underground Facilities. All permanent utility services, both existing and any new proposed utilities infrastructure, must be provided from underground facilities and no overhead utility service shall be permitted; with the exception of poles or electroliers used exclusively for street

lighting and other equipment appurtenant to underground facilities which are impractical for the utility companies to install underground. All development must:

- (a) Provide underground electricity and telephone service and wiring for future street lighting. The developer must also provide such present street lighting, gas lines, and cable television or other data transmission lines as may be required by the City Public Works Director.
- (b) Obtain all necessary permits for the placement of all underground utilities.
- (c) Make all necessary arrangements with the utility companies and other persons or corporations affected by the installation of such underground utilities and facilities in accordance with the rules and regulations of the Public Utility Commission of the State of Oregon.
- (d) All underground utilities, sewer lines, and storm drains installed in streets must be constructed prior to the surfacing of such streets to the extent practicable, and sewer lines must be placed to such lengths as will obviate the necessity for disturbing the street improvements when service connections are made.
- (e) Utilities must be installed prior to paving or other surface improvements.

Applicant Response: As shown on the tentative plans, the proposal includes extending utilities underground. The applicant has worked with all utility providers, has provided will serve letters, and will continue to work with providers to ensure easements are provided and recorded where needed. Any needed easements will be recorded prior to final plat. As proposed the design conforms to these standards.

(2) Utility Easements. Easements must be provided along property lines when necessary for the placement of utilities. Such easements must be "public utility easements" and must be marked as such on a final plat or any instrument dedicating such easements. Unless otherwise approved by the Public Works Director, utility easements must be at least 12 feet in width and centered on lot lines where possible.

Applicant Response: A public utility easement is proposed along the property line adjacent to the new private street. The proposed PUE is 12 feet in width and will be shown on and recorded with the final plat.

(3) Deferred Development. Locating or relocating utility installations underground for any development may be deferred when, in the discretion of the Public Works Director, impacts on existing utilities, timing of utility projects, or other considerations make deferral advantageous. Any such deferral must be memorialized in an instrument recorded against the property. [Ord. 933 § 4.5, 2019.]

Applicant Response: There is no deferred development proposed. This criteria does not apply.

SECTION 18.20.060 Street trees.

- (1) Purpose. This section sets standards and requirements for planting trees along all streets for shading, comfort, safety, and aesthetic purposes and is intended to implement the City of Madras Urban Forestry Plan. Requirements for street tree planting and tree wells are provided herein. Planting along unimproved streets must be deferred until after the construction of curbs and sidewalks. Such deferrals must be secured with a bond or cash deposit acceptable to the City. Street trees must conform to the following standards and guidelines:
 - (a) Street trees must be selected from the following list of preferred trees or of a species approved by the City Public Works Director:

Cherry (Japanese Flowering)

Crab Apple (Pink, Red, White)

Golden-Raintree

Hawthorn (English, Lavalle, Washington)

Pear, Flowering

Plum, Flowering Purple

Redbud, Eastern

Ash (Green, White)

Birch, River

Catalpa, Northern

Ginkgo

Hackberry, Common

Honeylocust, Common Thornless

Linden (American, Crimean, Littleleaf)

Maple (Crimson King, Schwedler, Emerald Queen, Sugar)

Pagoda Tree, Japanese

Sweetgum, American

Beech (American, European)

Kentucky Coffeetree

Oak (Bur, Pin, Red, Scarlet, White)

Planetree, London

- (b) All trees must have at least a one-inch caliper trunk and must be planted in accordance with City specifications.
- (c) Trees must be spaced 30 to 40 feet apart or as recommended by the Public Works Director and must be planted no closer than 35 feet from any intersection.

- (d) Street trees must be planted within existing and proposed planting strips, or in Cityapproved sidewalk tree wells on streets without planting strips. Small stature trees must be planted no closer to the curb or sidewalk than three feet, medium trees three feet, and large trees four feet. Root barriers may be required with street tree planting to protect the City's curbs and sidewalks.
- (e) The placement of street trees may be waived if the Public Works Director finds existing street trees exist or proposed trees will interfere with existing trees, landscaping, or public or private utilities.
- (f) For land divisions, the Public Works Director may defer the planting of street trees until physical development of the site where anticipated development may result in street trees being damaged or having to be replaced.
- (g) All street trees must be maintained in a healthy and aesthetically pleasing manner. Any tree that dies or becomes diseased must be removed and replaced with a healthy tree within a reasonable time period of noticing that a tree needs to be removed. [Ord. 933 § 4.6, 2019.]

Applicant Response: Proposed street trees have been selected from the preferred tree list. They will be a minimum of 1' dbh when planted. No trees will be planted closer than 35 feet from a street intersection. Specifically, the Golden-raintree is proposed along the main roadway to the apartments.

SECTION 18.20.070 General provisions.

(1) Street Lighting. The developer must provide street lighting with underground wiring to the standards set forth in the design and construction standards.

Applicant Response: Street lighting will be provided as required by the design and construction standards.

(2) Fire Hazards. The Fire Marshal must approve the placement of fire hydrants or other firefighting apparatus, and the points of access to the subdivision to provide the residents adequate fire safety and assured access for emergency vehicles and ease resident evacuation.

Applicant Response: A new fire hydrant is proposed on the private street. Detailed design will be provided with a subsequent engineering plan review for the site infrastructure.

(3) Water/Sewer. All development must provide water and sewer lines "to and through" the proposed development, be constructed to the design and construction standards, and approved by the City Public Works Director. All lots must be served from the City of Madras water system or by water systems acceptable to the City. Water mains and service lines must be installed prior to the curbing and paving of new streets. [Ord. 933 § 4.7, 2019.]

Applicant Response: Water and sewer mains are proposed to be extended into the site from NE Oak Street and will terminate in the proposed apartment development. The surrounding properties are developed and preclude the ability and need to extend "to and through".

SECTION 18.20.080 Grading and drainage.

(1) Grading. Except with the approval of the Public Works Director, grading or clearing is not permitted prior to receipt of land use approval. All grading must be performed to the standards set forth in the design and construction standards including, without limitation, requirements for dust abatement and noxious weed prevention.

Applicant Response: The applicant understands that grading and clearing are not permitted prior to land use approval. Dust control will be addressed on the site engineering plans for infrastructure and grading.

(2) Drainage. Unless otherwise approved by the Public Works Director, all drainage must be managed on site. All development requiring grading must submit a stormwater management plan prepared by a licensed engineer demonstrating how the development will comply with the design and construction standards.

Applicant Response: Runoff from lots will be retained on the site to the greatest extent possible, per City Requirements, via private catch basins, sediment manholes and drywells. Stormwater in the proposed private street will be collected in catch basins and conveyed to sediment manholes and drywells.

(3) Watercourse. If a development is traversed by a watercourse, such as a drainage way, channel, or stream, the developer must dedicate a stormwater easement or drainage right-of-way conforming substantially with the lines of the watercourse or in such further width as will be adequate for the purpose as determined by the Public Works Director. Streets or parkways parallel to major watercourses and drainage ways may be required. [Ord. 968 § 2.6 (Exh. F), 2022; Ord. 933 § 4.8, 2019.]

Applicant Response: There are no existing water courses on the project site. This criteria does not apply.

SECTION 18.20.090 Special setbacks.

(1) If special building setback lines are to be established as part of a development, they must be shown on the tentative plan or other submittal document and memorialized on the final plat or in other deed restrictions satisfactory to the City.

Applicant Response: No special setbacks are required or proposed. This criteria does not apply.

(2) If development is proposed along a street with substandard right-of-way, development on the subject property must be set back a distance from the centerline of the right-of-way equal to one-half (1/2) of the applicable minimum right-of-way width based on street classification as identified in the Transportation System Plan, plus the applicable setback for the zone in which the subject property is located. [Ord. 933 § 4.9, 2019.]

Applicant Response: The only street frontage is along NE Oak Street, which has a standard right-of-way width and is fully improved aside from a missing section of sidewalk along the project site. The missing sidewalk will be installed as part of this project.

SECTION 18.20.100 Improvement procedures.

In addition to other requirements, improvements to be installed by the applicant, either as a requirement of this Development Code or other applicable regulations, or at the election of the applicant, must conform to the requirements of this section.

- (1) Plan Review and Approval. Improvement work must not be commenced until plans have been reviewed by the Subdivision Committee established pursuant to MDC <u>18.60.040</u>. To the extent necessary for evaluation of a proposed development, such improvement plans may be required before land use approval.
- (2) Improvements as Approved. Improvements must be designed, installed, and constructed as approved.

Applicant Response: The applicant understands that improvements must be installed and constructed as approved.

- (3) Improvement Plans. Plans and maps stamped by a licensed engineer showing public improvements must be filed with the City Public Works Department prior to commencing the work.
- (4) Inspection. Improvements must be constructed under the inspection and approval of the Public Works Director. The Public Works Director may accept certification of a registered professional engineer consistent with ORS <u>92.097</u>. Expenses incurred shall be borne by the applicant.
- (5) As-Built. "As-built" drawings stamped by a licensed engineer must be filed with the City upon completion of the public improvements. [Ord. 933 § 4.10, 2019.]

Applicant Response: As-built drawings will be provided by the Engineer of Record upon project completion and City acceptance of infrastructure.

SECTION 18.20.110 Acceptance of improvements.

Improvements must be considered for acceptance after inspection by the City Public Works Department at the time the improvements are constructed. [Ord. 933 § 4.11, 2019.]

Applicant Response: The applicant understands that improvements must be inspected and accepted by the City upon completion and prior to plat recording.

SECTION 18.20.120 Public park dedication/park fund.

All subdivisions must comply with the following standards:

- (1) All subdivisions must dedicate at least eight percent (8%) of the gross area of the property proposed to be subdivided to the City of Madras for public parks, open space, trails, and other recreational purposes.
- (2) The Public Works Director will determine the manner in which the property is dedicated or conveyed to the City including, without limitation, the form of the instrument and the timing of the dedication or conveyance.
- (3) Property dedicated to the City for public parks, open space, trails, and other recreational purposes should be located to ensure maximum access, visibility, use, reduce maintenance needs, to maintain public safety, and minimize adverse impacts to neighboring residents and must otherwise:
 - (a) Be consistent with the provisions of the City of Madras Parks and Open Space Master Plan;
 - (b) Front at least two public streets;
 - (c) Be located on a part of the site that can reasonably be developed with public parks, open space, trails, and other recreational purposes as determined by the Public Works Director considering: slope, topography, watercourses, drainage facilities, rock outcroppings, underground and overhead utility services, easements and encumbrances, availability of domestic water and sewer service, and proximity to existing or planned streets; and
 - (d) Comply with the City's Transportation System Plan, Trails Plan, and Safe Routes to School Plan standards and specifications for trail improvements.

Applicant Response: The project site does not contain an area suitable to the criteria listed above. The applicant understands that a fee-in-lieu may be required in place of a land dedication for public parks.

(4) Trails crossing public right-of-way used for vehicular transportation (i.e., road crossings) must comply with standards specified in the City's Transportation System Plan, Trails Plan, Safe Routes to School Plan and Americans with Disabilities Act (ADA) including, without limitation, location, sight distances, and construction specifications.

Applicant Response: There are no trail crossings in close proximity to this site. This criteria does not apply.

- (5) The Public Works Director, in his or her sole discretion, may allow a payment in lieu for all or a part of the required dedication of property to the City of Madras for public parks, trails, and recreational purposes. If a developer is permitted to pay fees to the City of Madras in lieu of dedicating property, the fees must be equal to eight percent (8%), or a proportionately lesser amount if a partial dedication/partial fee in lieu is approved, of the real market value (RMV) of the property proposed to be subdivided. The RMV of the property shall be established from the most recent tax assessment for the property proposed to be subdivided by the Jefferson County Assessor.
- (6) Expenditure of Funds. Funds collected from a developer in lieu of dedicating public park, trail, and recreation land shall be credited to a park acquisition and development fund and must be deposited with the City Finance Director prior to the final plat of the subdivision (for multiphase subdivisions, prior to phase 1 final plat approval). Such funds may be expended only on order of the City Council for the purpose of acquiring, developing, or maintaining existing land for parks, trail, or recreational purposes. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 4.12, 2019.]

Applicant Response: The applicant understands that a fee-in-lieu may be required in place of a land dedication for public parks.

SECTION 18.20.130 Waiver, modification, and deferral of public improvement standards.

- (1) Authority to Grant Waiver, Modification, or Deferral. Waivers, modifications, and/or deferrals of the standards of this chapter and/or the design and construction standards may be granted as part of a development approval only if the criteria of subsection (2) of this section are met.
- (2) Criteria. The Public Works Director may waive, modify, or defer any requirement of the Public Improvement Standards and/or the design and construction standards if the Public Works Director finds that: (1) the waiver or modification will not harm or will be beneficial to the public in general; (2) the waiver or modification is not inconsistent with the general purpose, or any City plans or policies, of ensuring adequate public facilities; and (3) one or more of the following conditions are met:

- (a) The modification or waiver is necessary to eliminate or reduce impacts on existing drainage patterns or natural features such as riparian areas, significant trees or vegetation, or steep slopes.
- (b) An existing structure, such as a substantial retaining wall, makes widening a street or right-of-way or required placement of lines impractical or undesirable.
- (c) Street access to an existing lot would be eliminated without the waiver or modification.
- (d) Building on an existing lot would be infeasible without the waiver or modification.
- (e) The standard is a street or right-of-way standard and existing structures on the same side of the block make future widening of the remainder of the street or right-of-way unlikely and the additional width on the development site would not be beneficial for sidewalks or parking without the extension for the rest of the block.
- (f) The modification or waiver is needed to allow development of, or street access to, the property because of topographical constraints.
- (g) The existing infrastructure: (i) does not meet current standards; (ii) is and will remain functionally equivalent to current standards; and (iii) there is little likelihood that current standards will be met in the area.
- (h) The installation of the required improvements would likely cause unacceptable significant adverse environmental impacts and the waiver/modification would avoid such impacts.
- (i) There is insufficient right-of-way to allow a full width street cross-section and additional right-of-way cannot be provided.
- (j) There is no street or right-of-way adjacent to the property and easement access has been obtained across private property.
- (k) Required street frontage improvements for individual single-family dwellings could best be accomplished by planned area-wide improvements at a future date.
- (I) The City has conflicting or inconsistent standards and the proposal would comply with one set of adopted standards. Standards are conflicting or inconsistent only when it is not possible to comply with both. In most situations, the more recently adopted standard should be followed and the older standard may be waived.

- (m) There is a readily identifiable future project in which the required improvements or other obligation of the developer under the Public Improvement Standards will be satisfied and deferral to the future project will not unduly burden the ability to serve the subject property or adjoining properties with public facilities.
- (n) Maximization of the number of lots or parcels in a land division is not a reason to allow a waiver or modification.

Applicant Response: No waivers are requested with this application. This criteria does not apply.

- (3) Other Requirements Not Waived. Any waivers under this section do not exempt the developer from submitting plans that meet all other applicable specifications.
- (4) Application Requirements. The application for a waiver, modification, or deferral must be in writing submitted as part of a development application and shall be subject to applicable fees established by the City Council. The application must specify which requirement(s) of this chapter and/or the design and construction standards are at issue and which of the condition(s) listed above are met. The application must contain a statement explaining why the deviation from the required standards is necessary and why the waiver or modification sought will not harm or will be beneficial to the general public.
- (5) Conditions. The City may impose any condition of approval necessary to satisfy the purposes of this chapter, including, without limitation, requiring a signed agreement not to remonstrate against the formation of a local improvement district. [Ord. 933 § 4.13, 2019.]

Applicant Response: No waivers are requested with this application. This criteria does not apply.

SECTION 18.20.140 Improvement agreement.

- (1) A developer may, in lieu of constructing required public improvements, request the City Administrator to approve an agreement between himself and the City specifying the schedule by which the required improvements and repairs must be completed; provided, however, any schedule of improvements agreed to must not exceed three years from the date the approval establishing the required improvements becomes final. The agreement must also provide the following information:
 - (a) A list of all the contractors who will construct or complete the improvements and repairs required, and the cost of the project.
 - (b) That developer must post a performance bond or other security acceptable to the City and that the City may call upon the security filed to construct or complete the improvements and repairs if the schedule of improvements is not adhered to.

- (c) That the City shall recover the full cost and expense of any work performed by the City to complete construction of the improvements and repairs, including, but not limited to, attorneys' and engineering fees.
- (d) That a warranty bond for one year must be deposited with the City following acceptance of the improvements. Said bond must be in the amount of ten percent (10%) of the value of the improvements as determined by the Public Works Director.
- (e) A waiver of remonstrance against formation of a local improvement district if the required improvements are not timely completed.
- (f) Such other provisions as deemed appropriate by the City.
- (2) The City Administrator may reject an agreement authorized by this section for any reason the Administrator deems sufficient. [Ord. 933 § 4.14, 2019.]

Applicant Response: The developer understands that if an improvement agreement is put in place in lieu of completed required improvements, a bond or other financial security will be required.

SECTION 18.20.150 Bond, cash deposit or guarantee.

- (1) If the City Administrator allows a developer to enter into an improvement agreement in lieu of completing required improvements, the developer must file one of the following to assure full and faithful performance under the improvement agreement:
 - (a) A surety bond executed by a surety company authorized to transact business in the State of Oregon in a form approved by the City Attorney;
 - (b) A cash deposit in a City account at an approved lending institution; or
 - (c) Other security satisfactory to the City.
- (2) The value of the security provided by the developer must be for one hundred twenty percent (120%) of the cost of the improvements and repairs as determined by the Public Works Director.
- (3) If the developer fails to carry out the provisions of the agreement, the City may call upon the bond, cash deposit, or other security to finance any cost or expenses resulting from said failure. The City may also elect to form a local improvement district to lien the properties in accordance with the relevant provisions of Oregon State Law and Madras City Code. If the amount of the deposit or bond exceeds the cost and expense incurred by completing the improvements, the City shall release the remainder. If the amount of the deposit or bond is less

than the cost and expense incurred by the City for the improvements and repairs, the developer is liable to the City for the difference. [Ord. 933 § 4.15, 2019.]

Applicant Response: The developer understands that if an improvement agreement is put in place in lieu of completed required improvements, a bond or other financial security will be required.

SECTION 18.20.160 Street dedications.

Any person desiring to create a street that is not part of a subdivision or partition must make written application to the City Public Works Department. Said application must be accompanied by the required information and appropriate filing fee. [Ord. 933 § 4.16, 2019.]

Applicant Response: All proposed street dedications will be done as part of the subdivision through the final platting process.

SECTION 18.20.170 Minimum design standards.

The minimum standards of design and improvements for the dedication of a street shall be the same as set forth in the design and construction standards and must be in compliance with other applicable street standard regulations. [Ord. 933 § 4.17, 2019.]

Applicant Response: All proposed public streets have been designed to meet the applicable street standard regulations. Detailed engineering plans will be submitted for review upon land use approval.

SECTION 18.20.180 Procedure for street dedications.

- (1) Upon receipt of written application and appropriate filing fee for a street dedication, the request shall be forwarded to the Public Works Director for review and recommendation.
- (2) If access to a County road or state highway is planned, the necessary permits must be obtained prior to approval.
- (3) The Public Works Director shall forward the proposal to the City Council for a public hearing.
- (4) The only notice required for a hearing under this section shall be by publication. 0000000
- (5) The City Council may accept, reject, or accept the proposal with conditions to the proposed dedication. [Ord. 933 § 4.18, 2019.]

Applicant Response: The applicant understands the requirements for dedication of public streets.

Chapter 18.25: SUPPLEMENTARY PROVISIONS

SECTION 18.25.010 Maintenance of minimum requirements.

No lot may be reduced below the minimum square footage required by this Development Code except that legal nonconforming lots may be increased in size even if below the minimum square footage required by this Development Code. [Ord. 933 § 5.1, 2019.]

Applicant Response: All proposed lots meet the minimum square footage requirements.

SECTION 18.25.020 Internal pedestrian circulation.

- (1) Affected Developments.
 - (a) All nonresidential development.
 - (b) Institutional development and public buildings.
- (2) Walkway Locations.
 - (a) A walkway must be provided to each street abutting the property.
 - (b) A walkway must be provided for every 300 feet of street frontage, or for every eight rows of vehicle parking.
 - (c) A walkway must be provided to any site that is not bordered by a street.

Applicant Response: Walkways and ADA accessible routes are provided throughout the site, along one side of the proposed private street and the site frontage on Oak Street. See Site Plan for details.

- (3) Connections.
 - (a) Walkways must connect building entrances to one another, and to public streets which are existing or planned transit stops.
 - (b) On-site walkways must connect with sidewalks, bike paths, alleyways, and other bicycle or pedestrian connections on adjacent properties used or planned for commercial, multifamily, institutional, or park use.
 - (c) Walkways and driveways must provide a direct connection to walkways and driveways on adjacent developments.

(d) Potential pedestrian connections between the proposed development and the existing or future development on adjacent properties, other than connections via the street system, must be identified. The development application must designate these connections on the proposed site plan, or findings must be submitted demonstrating that the connection is infeasible.

Applicant Response: All buildings, common areas and streets are connected via walkways. There are no future developments on adjacent properties to plan connections to. See planning drawings for details.

- (4) Dedications. Rights-of-way or public easements must be provided for all required walkways that provide a direct connection to adjacent properties.
- (5) Exemptions. A required walkway or walkway connection need not be provided where another required sidewalk or walkway route provides a reasonably direct route. An alternate route is reasonably direct if the walking distance increases by less than fifty percent (50%) but not more than 100 feet over the other required route. Walkways are required between most parts of a site that people on the site normally would or could walk between. Walkways are not required between buildings or portions of a site which are not intended to be used by pedestrians. Such buildings and features include truck loading docks and warehouses; not including office/warehouse combinations, automobile sales lots, temporary uses, or outdoor storage areas.

(6) Routing.

- (a) Walkways must be as direct as possible and avoid unnecessary meandering. Pedestrian walkways must be directly linked to entrances and internal circulation of the building.
- (b) Driveway crossings must be minimized. Internal parking lot circulation and design must maintain ease of access for pedestrians from streets and transit stops.

Applicant Response: All proposed sidewalks within the development will be privately owned and maintained.

All proposed walkways throughout the site are as direct as possible. The proposed walkway behind Building 3 meanders in order to provide an ADA route with the required slopes and appropriate landings.

(7) Design.

(a) Walkways must be at least five feet in paved width. Walkways bordering parking spaces must be at least seven feet wide unless concrete bumpers, bollards, or curbing and landscaping or other similar improvements are provided which prevent parked vehicles from obstructing the walkway.

- (b) Pedestrian-scale lighting fixtures must be provided along all walkways. On-site pedestrian walkways must be lighted to a level where the system can be used at night by employees, residents, and customers.
- (c) Stairs or ramps must be provided where necessary to provide a direct route. Walkways without stairs shall have a maximum slope of eight percent (8%) and a maximum cross slope of two percent (2%).
- (d) Internal driveways crossing walkways must be a maximum of 14 feet wide for parking lots of less than 20 vehicles and a maximum of 18 feet wide for parking lots of more than 20 vehicles.
- (e) Walkways on private property that provide direct links between publicly owned pedestrian routes must be placed in public easements. Where public access is to be provided on private land, easements must be provided.
- (f) Walkways along nonresidential building frontages must be covered with awnings or building overhangs. The minimum vertical clearance is nine feet for awnings and 12 feet for building overhangs. Structural supports and facades for building overhangs must not obscure more than ten percent (10%) of the area between the building and the street.
- (g) The on-site circulation system must incorporate a streetscape which includes curbs, sidewalks, pedestrian scale light standards, and street trees.
- (h) Walkways must be constructed to sidewalk standards except for portions of walkways in driveways and other vehicle maneuvering areas which must be raised at least three inches and paved with a different material than the surrounding driveway.

Applicant Response: All proposed walkways meet the criteria listed above and the design details can be found in the submitted planning drawings.

(8) ADA Compliance. The Americans with Disabilities Act (ADA) contains different and stricter standards for some walkways. For example, the maximum slope for walkways subject to the ADA is five percent (5%). Walkways up to eight percent (8%) slope are treated as ramps with special standards for railings and landings. The ADA applies primarily to the walkway which is the principal building entrance and walkways that connect transit stops to building entrances. Where ADA applies to a walkway, the stricter standards of ADA should apply. [Ord. 933 § 5.2, 2019.]

Applicant Response: All ADA routes have been designed in conformance with these standards.

SECTION 18.25.030 Fences.

Fences, hedges, and walls not more than eight feet in height are permitted on all front, rear, and side property lines of the parcel. However, the vision clearance areas must be maintained. [Ord. 933 § 5.3, 2019.]

Applicant Response: A six foot cedar privacy fence is proposed around the perimeter of the apartment development, as shown on the planning drawings. Additionally, a chain link fence is proposed around the portions of the dog park that do not abut the perimeter fencing.

SECTION 18.25.040 Off-street parking and loading.

General provisions are as follows:

(1) The provision and maintenance of off-street parking and loading spaces are a continuing obligation of the property owner. Should the owner or occupant of any lot or building change the use to which the lot or building is put, thereby increasing off-street parking or loading requirements, they must ensure these requirements are complied with.

Applicant Response: Off-street parking will be owned and maintained by the property owner, in accordance with this standard.

(2) Requirements for types of buildings and uses not specifically listed in this Development Code shall be determined by the decision maker based upon the requirements for comparable uses listed.

Applicant Response: The building use is residential – apartments which is a listed use in the Development Code.

(3) Required parking spaces must be available for the parking of passenger automobiles of residents, customers, patrons, and employees only, and must not be used for storage of vehicles or materials or for the parking of trucks used in conducting the business or use.

Applicant Response: The off-street parking will be available for residents and guests of residents.

(4) Loading. Buildings or structures to be built or substantially altered that receive and distribute materials and merchandise by trucks must provide and maintain off-street loading berths. Off-street parking areas used to fulfill requirements of this Development Code must not be used for loading and unloading operations except during periods of the day when not required to meet parking needs.

- (a) In any zone in connection with every building or part thereof hereafter erected and having a gross floor area of 10,000 square feet or more, which is to be occupied for manufacturing, storage, warehousing, goods display, retail sales, a hotel, a hospital, a mortuary, a laundry, dry cleaning establishment, or other uses similarly requiring the receipt or distribution by vehicles or materials or merchandise, at least one off-street loading berth, plus one additional off-street loading berth for each 20,000 square feet there, must be provided and maintained. Said loading berth(s) must be provided with access, driveways, and surfacing in the same manner as for off-street parking, except that each space must be at least 10 feet wide and 22 feet long with a height clearance of at least 14 feet. A sight-obscuring screen, berm, or landscaping must conceal all loading areas from view from public streets or roads.
- (b) Loading and unloading of merchandise, equipment, etc., is not permitted from public streets or roads. [Ord. 933 § 5.4, 2019.]

Applicant Response: No loading or unloading zones are proposed. This standard does not apply.

SECTION 18.25.050 Off-street parking.

All buildings and uses must comply with the parking requirements set forth in this section.

- (1) Amount Required. The number of required off-street vehicle parking spaces shall be determined in accordance with MDC Table 18.25.050-1. Off-street parking spaces may include spaces in garages, carports, parking lots, and/or driveways if vehicles are not parked in a vehicle travel lane (including emergency or fire access lanes), public right-of-way, pathway, or landscape area.
 - (a) Where parking requirements are based on the square footage of a building, the applicable square footage shall be the gross floor area of the building excluding any space within a building devoted to off-street parking or loading. When the number of employees is specified, persons counted shall be those working on the premises, including proprietors, during the largest shift at peak season.
 - (b) For uses not specified in MDC Table 18.25.050-1, the decision maker must determine the minimum number of required parking spaces as part of the development review process accompanying the proposed use, based upon similar uses listed in MDC Table 18.25.050-1 or other substantial evidence of expected parking demand.
 - (c) In the event that several uses occupy a single structure or parcel of land, the total requirements of off-street parking shall be the sum of the requirements of the several uses computed separately. Notwithstanding the foregoing, the total requirement may be reduced by an amount determined by the decision maker where the applicant sufficiently

demonstrates that peak parking demands are less because of differing peak parking demand periods among the uses.

- (d) Owners of two or more parcels of land may agree to share parking and loading spaces; provided, that the parking areas supporting a particular use are located within 500 feet of that use and satisfactory legal evidence is presented to the City in the form of deeds, leases, or contracts to establish shared use of parking facilities. Notwithstanding the foregoing, the total parking requirement on the parcels subject to the shared use arrangement may be reduced by an amount determined by the decision maker where the applicant sufficiently demonstrates that peak parking demands are less because of differing peak parking demand periods among the uses sharing the parking facilities.
- (e) Parking Within the C-2 and C-3 Zoning Districts. No minimum off-street parking is required for buildings and uses within the C-2 and C-3 zoning districts. Whether or not off-street parking is constructed with the C-2 or C-3 zoning districts, no developer, property owner, tenant, or any other party holds any rights or entitlements to public on-street parking stalls (beyond their availability to the general public as regulated by City) or to any publicly owned off-street parking facilities (beyond that provided to the general public as regulated by City or as provided by a special agreement or program established by City) nor is City precluded from altering or removing such parking stalls or facilities. Any on-street parking stalls or off-street parking facilities constructed within the C-2 and C-3 zones must meet applicable dimensional requirements.

Applicant Response: The site is not within the C-2 or C-3 Zoning Districts. This standard does not apply.

- (2) Location.
 - (a) Except as allowed pursuant to MDC <u>18.40.040(8)</u>, no automobile parking, with the exception of accessible parking, is permitted between the building and an arterial or collector street unless the Community Development Director determines there is no feasible alternative to provide the required parking. If a building setback is provided, the setback area must be paved with a hard surface (concrete or unit pavers, not asphalt) and must incorporate seating and landscaping. A public entrance must be within 100 feet of the right-of-way of an arterial or collector street.
 - (b) Development on lots or sites with three frontages may have vehicle parking areas between the building and one of the streets. Development on full blocks may have vehicle parking areas between the building and two of the streets. However, the parking area must be between a local street and the building, not an arterial, other than a freeway or other fully controlled access highway.

(c) Parking lots with 50 spaces or more must be divided into separate areas and divided with landscaped areas or walkways at least 10 feet in width or by a building or group of buildings.

Applicant Response: The site has 63 proposed parking spaces that are separated into two parking areas. The two areas are separated by the central building (Building 3) and a slope with a switchback walkway. See planning drawings for details.

(d) Parking lots cannot occupy more than thirty-three percent (33%) of the subject property's street frontage. Parking areas should be located behind or to the side of a building. If a property has multiple street frontages, then this standard will apply to the frontage along the highest order street. If all street frontages have the same classification, then this standard will apply to the frontage to which the primary building entrance is located.

Applicant Response: The proposed parking does not occupy any of the property's street frontage.

(e) Required off-street parking spaces for a dwelling must be located on the same lot or parcel as the dwelling. Notwithstanding the foregoing, the Community Development Director may approve off-street parking for a dwelling within the C-2 and C-3 zoning districts to be located off-site, provided the off-site parking area is located within the C-2 or C-3 zoning district. Other required parking spaces must be located not farther than 300 feet from the building or use they are required to serve, measured in a straight line from the building, unless otherwise approved by the Community Development Director.

Applicant Response: All proposed parking for the apartment development is located on the same parcel (Proposed Lot 4) as the apartment buildings. This criteria has been met.

Table 18.25.050-1. Required Vehicle Parking

BUILDING/USE TYPE	PARKING SPACES REQUIRED (Spaces per 1,000 sq. ft. unless otherwise noted)		
LAND USE CATEGORY	C-2 and C-3 Zones	All Other Zoning Districts	
COMMERCIAL AND INDUSTRIAL			
Office Buildings, Banks	No minimum requirement	2.5 spaces	
Business and Professional Services	No minimum requirement	2.86 spaces	
Commercial Recreational/Entertainment Facilities	No minimum requirement	10.0 spaces	

BUILDING/USE TYPE	PARKING SPACES REQUIRED (Spaces per 1,000 sq. ft. unless otherwise noted)			
LAND USE CATEGORY	C-2 and C-3 Zones	All Other Zoning Districts		
Shopping Goods (Retail)	No minimum requirement	2.86 spaces		
Convenience Goods (Retail)	No minimum requirement	2.86 spaces		
Restaurants and Bars	No minimum requirement	10.0 spaces		
Personal Services and Repairs	No minimum requirement	2.86 spaces		
Manufacturing	No minimum requirement	2.0 spaces		
Warehouses	Not allowed	1.0 spaces		
Wholesale	Not allowed	1.5 spaces		
RV Park	Not allowed	See MDC <u>18.30.040(2)(I)</u>		
Hotels	No minimum requirement	1.0 space per room		
Motels	No minimum requirement	1.0 space per room		
RESIDENTIAL				
Single-Unit Dwelling	Not allowed as a standalone use; No minimum requirement for a single-unit dwelling in a residential mixed-use development	1.0 space per dwelling unit		
Townhomes	See MDC <u>18.30.191(4)(k)</u>	See MDC <u>18.30.191(4)(k)</u>		
Accessory Dwelling Units	No minimum requirement	1.0 space per ADU		
Apartments	No minimum requirement	1.0 space per dwelling unit		
PUBLIC AND INSTITUTIONAL				
Museums and Libraries	No minimum requirement	3.3 spaces		
Government Facilities	No minimum requirement	3.3 spaces		
Welfare Institutions	No minimum requirement	2.5 spaces		
MEDICAL				
Medical and Dental Offices	No minimum requirement	2.86 spaces		
Hospitals	No minimum requirement	2.86 spaces		
Convalescent Homes or Assisted Living	No minimum requirement	1.0 space per 2 patient beds or 1.0 space per apartment unit		
AUDITORIUMS				

BUILDING/USE TYPE	PARKING SPACES REQUIRED (Spaces per 1,000 sq. ft. unless otherwise noted)			
LAND USE CATEGORY	C-2 and C-3 Zones All Other Zoning Districts			
General Auditoriums and Theaters	No minimum requirement	0.25 space per seat		
Stadiums and Arenas	No minimum requirement	0.25 space per seat		
School Auditoriums	No minimum requirement	0.10 space per seat		
University Arenas	No minimum requirement	0.10 space per seat		

[Ord. 968 §§ 2.2 (Exh. B), 2.5 (Exh. E), 2022; Ord. 959 § 2.1 (Exh. B), 2021; Ord. 955 § 2.1 (Exh. B), 2021; Ord. 945 § 2 (Exh. B), 2020; Ord. 933 § 5.5, 2019.]

Applicant Response: The proposed use is apartment units, which require one space per unit. The total number of units proposed is 60 and there are 63 parking spaces provided on the site. See planning drawings for details.

SECTION 18.25.060 Design and improvement standards for parking lots.

The design and improvement standards for parking lots are:

- (1) Parking Table and Diagram. MDC Table 18.25.060-1 provides the minimum dimensions of public or private parking areas based on the diagram on the same page where "A" equals the parking angle, "B" equals the stall width, "C" equals the minimum stall depth, "D" equals the minimum clear aisle width, "E" equals the stall distance at bay side, "F" equals the minimum clear bay width, and "G" is the maximum permitted decrease in clear aisle width for private parking areas.
- (2) Each parking space or stall shall be governed by the requirements of MDC Table 18.25.060-1, and in no case have less than a minimum width of eight feet and a minimum length of 18 feet, but in any case must have at least a total area of 144 square feet and must be individually accessible, be paved, and be adequately maintained.

Applicant Response: All proposed parking spaces for the apartment development are 9 feet wide and 20 feet long, which meets and exceeds this requirement.

(3) Except for parking in connection with dwellings, parking and loading areas adjacent to or within a residential zone or adjacent to a dwelling must be designed to minimize disturbance to residents by the erection between the uses of a sight-obscuring fence or planted screen of not less than five feet in height except where vision clearance is required.

Applicant Response: There are no loading areas proposed. This criteria does not apply.

(4) Parking spaces along the outer boundaries of a parking lot must be contained by a bumper rail or by a curb which is at least four inches high and which is set back a minimum of one and one-half feet from the property line.

Applicant Response: Six inch curbs are proposed throughout the parking lot and no parking spaces are within one and one-half feet of a property line. This criteria has been met.

(5) Artificial lighting shall not shine or create glare in any residential zone or on any adjacent dwelling.

Applicant Response: All site lighting will be designed in accordance with these standards and will not shine or create glare on adjacent properties.

(6) Access aisles must be of sufficient width to permit easy turning and maneuvering.

Applicant Response: All proposed access aisles are 26 feet in width, which is sufficient for turning and maneuvering. Additionally, the internal curb radius throughout the parking lot is 28 feet in order to accommodate fire truck turning movements.

(7) Except for single-family and duplex dwellings, groups of more than two parking spaces must be located and served by a driveway such that their use will require no backing movements or other maneuvering within a street right-of-way other than an alley.

Applicant Response: All proposed parking for the apartment development is served by the 26 foot wide drive aisles, which provide more than adequate space for backing movements and maneuvering.

(8) Service drives to off-street parking areas must be designed and constructed both to facilitate the flow of traffic and to provide maximum safety for vehicles and pedestrians. The number of service drives shall be limited to the minimum that will accommodate anticipated traffic.

Applicant Response: All service drives within the apartment development are 26 feet wide, which exceeds the minimum requirement.

- (9) The following standards apply to parking within the Industrial Zone:
 - (a) Parking must be located at the rear and sides of a new building; parking can only be allowed in front of the building (between the landscaping and street) upon approval by the Site Plan Committee.
 - (b) Parking is not allowed on collectors or arterials when industrial zoning is contiguous to said street.

(c) All parking areas shall be limited to 60 spaces plus access. Additional required parking must be separated by a minimum of five-foot landscaped strips except for access. The 60 parking spaces shall be referred to as a cluster of parking.

Applicant Response: The proposed development is residential. This section does not apply.

Table 18.25.060-1. Parking Area Dimensions

Angle	Stall Width (ft.)	90° Depth (ft.)	Aisle Width (ft.)	Parallel Length (ft.)	Aisle and Bay (ft.)	Private Aisle Max. Reduction (ft.)
А	В	С	D	Е	F	G
Parallel	8.0	8.0	12.0	22.0	20.0	2.0
	8.0	13.6	11.0	23.4	24.6	
20°	8.5	14.1	11.0	24.9	25.1	1.0
20	9.0	14.6	11.0	26.3	25.6	1.0
	10.0	15.5	11.0	29.2	25.5	
	8.0	16.0	11.0	16.0	27.0	
	8.5	16.4	11.0	17.0	27.4	
30°	9.0	16.8	11.0	18.0	27.8	1.0
	9.5	17.3	11.0	19.0	28.3	
	10.0	17.7	11.0	20.0	28.7	
	8.0	18.4	14.0	11.3	32.4	
	8.5	18.7	13.5	12.0	32.2	
45°	9.0	19.1	13.0	12.7	32.1	3.0
	9.5	19.4	13.0	13.4	32.4	
	10.0	19.8	13.0	14.1	32.8	
	8.0	19.7	19.0	9.2	38.7	
	8.5	20.0	18.5	9.8	38.5	
60°	9.0	20.3	18.0	10.4	38.3	3.0
	9.5	20.5	18.0	11.0	38.5	
	10.0	20.8	18.0	11.5	38.8	
700	8.0	19.8	20.0	8.5	39.8	2.0
70°	8.5	20.1	19.5	9.0	39.6	3.0

Angle	Stall Width (ft.)	90° Depth (ft.)	Aisle Width (ft.)	Parallel Length (ft.)	Aisle and Bay (ft.)	Private Aisle Max. Reduction (ft.)
А	В	С	D	E	F	G
	9.0	20.4	19.0	9.6	39.4	
	9.5	20.6	18.5	10.1	39.1	
	10.0	20.9	18.0	10.6	38.9	
	8.0	19.2	25.0	8.1	44.2	
	8.5	19.3	24.0	8.6	43.3	
80°	9.0	19.4	24.0	9.1	43.4	3.0
	9.5	19.5	24.0	9.6	43.5	
	10.0	19.6	24.0	10.2	43.6	
	8.0	18.0	29.0	8.0	44.0	
	8.5	18.0	25.0	8.5	43.0	
90°	9.0	18.0	24.0	9.0	42.0	3.0
	9.5	18.0	24.0	9.5	42.0	
	10.0	18.0	24.0	10.0	42.0	

[Ord. 933 § 5.6, 2019.]

SECTION 18.25.070 Bicycle parking.

- (1) Applicability. Apartments, commercial, institutional development, transit transfer stations, and park-and-ride lots must provide bicycle parking facilities.
- (2) Exemptions. The Community Development Director may allow exemptions to required bicycle parking in connection with temporary uses that are not likely to generate the need for bicycle parking.
- (3) Number of Spaces. The minimum number of bicycle parking spaces is set forth in MDC Table 18.25.070. For uses not listed, the Community Development Director may determine the number of spaces based on the most similar listed use.

Table 18.25.070.

Use	Amount of Bicycle Parking
Apartments	1 covered space per unit. Covered bicycle parking spaces may be located within a garage, storage shed, basement, utility room or similar area. In those instances in which the residential complex has no garage or other easily accessible storage unit, the bicycle parking spaces may be sheltered from sun and precipitation under an eave, overhang, an independent structure, or similar cover.
Retirement home or assisted living complex	2 covered spaces or 1 covered space for every 10 employees, whichever is greater
Retail sales and service	1 covered space for every 10 employees plus 1 space for every 20 motor vehicle spaces
Multiple uses	For buildings with multiple uses (such as a commercial or mixed-use center), bicycle parking standards shall be calculated by using the total number of motor vehicle parking spaces required for the entire development. A minimum of one bicycle parking space for every 10 motor vehicle parking spaces is required.
Restaurants, cafes, and bars	1 covered space for every 10 employees plus 1 space for every 20 motor vehicle spaces
Professional office	1 covered space for every 10 employees plus 1 space for every 20 motor vehicle spaces
Medical or dental office or clinic or hospital	1 covered space for every 10 employees plus 1 space for every 20 motor vehicle spaces
Stadium, arena, theater or similar use	1 covered space for every 20 seats
Public or private recreational facility	1 space for every 10 employees plus 1 space for every 20 motor vehicle spaces
Parking lots	All public and commercial parking lots and parking structures shall provide a minimum

Use	Amount of Bicycle Parking
	of one bicycle parking space for every 10 motor vehicle parking spaces.
Industrial uses without retail trade or service	1 covered space for every 20 employees
Industrial uses with retail	1 covered space for every 20 employees
Elementary school	1 covered space for every 25 students. All spaces should be sheltered under an eave, overhang, independent structure, or similar cover.
Junior high school	1 covered space for every 25 students. All spaces should be sheltered under an eave, overhang, independent structure, or similar cover.
High school	1 covered space for every 25 students. All spaces should be sheltered under an eave, overhang, independent structure, or similar cover.

Applicant Response: Each of the proposed apartment units has a covered patio or deck that can be used for bike storage. These areas are covered and meet the 1 space per unit requirement of this section. In addition to the covered bike parking, there are two uncovered bike parking areas proposed in the apartment development. One is located near the paver patio and the other is in front of Building 4.

- (4) Location. All required bicycle parking must be located on site within 50 feet of the primary entrance to the building but in no event further from such entrance than the closest off-street parking space.
 - (a) For buildings with multiple entrances, required short-term bicycle parking must be distributed proportionally at the various entrances. Required long-term public parking must also be distributed at the various public entrances, while employee parking must be located at the employee entrance, if applicable.
 - (b) Bicycle parking may be provided within a building, but the location must be easily accessible for bicycles.

- (c) Employee and residential bicycle parking must offer a high level of security, e.g., bicycle lockers or a locked cage or room with locking facilities inside to provide safe, long-term parking.
- (d) Bicycle parking may be provided within the public right-of-way in areas without building setbacks, subject to approval of the Public Works Director and provided it meets the other bicycle parking requirements.
- (e) Bicycle parking facilities must be separated from motor vehicle parking and maneuvering areas by a barrier or sufficient distance to prevent damage to the parked bicycles.
- (f) Cover for bicycle parking must be provided by a bicycle storage room, bicycle locker, or racks inside a building; bicycle lockers or racks in an accessory parking structure; underneath an awning, eaves, or other overhang; or other facility as determined by the decision maker that protects the bicycles from direct exposure to the elements.
- (g) All required long-term bicycle parking and all bicycle parking for residential, school, and industrial uses must be covered.

Applicant Response: Each of the proposed apartment units has a covered patio or deck that can be used for bike storage. These areas are covered and meet the 1 space per unit requirement of this section. In addition to the covered bike parking, there are two uncovered bike parking areas proposed in the apartment development. One is located near the paver patio and the other is in front of Building 4.

(5) Parking Space Dimensions. Each required bicycle parking space must be at least two and one-half feet by six feet and when covered, provide a vertical clearance of at least seven feet. An access aisle at least five feet wide must be provided and maintained beside or between each row of bicycle parking (vertical clearance may be four feet in an enclosed bicycle locker). Each required bicycle parking space must be accessible without moving another bicycle.

Applicant Response: All bike parking areas meet the minimum dimensional requirements.

- (6) Parking Facilities. The intent of this subsection is to ensure that required bicycle parking facilities are designed so that bicycles may be securely locked to them without undue inconvenience and will be reasonably safeguarded from intentional or accidental damage.
 - (a) Bicycle parking facilities must offer security in the form of either a lockable enclosure in which the bicycle can be stored or a stationary object (i.e., a rack) upon which the bicycle can be locked.

(b) Bicycle racks must hold bicycles securely by means of the frame. The frame must be supported so that the bicycle cannot be pushed or fall to one side in a manner that will damage the wheels.

Applicant Response: The proposed outdoor bike racks will be inverted "U" style racks (or similar) that provide two points of contact for the bicycle frame.

(7) Lighting. Lighting must be provided in a bicycle parking area so that all facilities are thoroughly illuminated and visible from adjacent sidewalks or motor vehicle parking lots during all hours of use. Bicycle parking must be at least as well lit as motor vehicle parking.

Applicant Response: The outdoor parking areas are located in areas that will be well lit and visible.

- (8) Signing. Areas set aside for required bicycle parking must be clearly marked and reserved for bicycle parking only. Where bicycle parking facilities are not directly visible and obvious from the public right-of-way, entry and directional signs must be provided to direct bicyclists from the public right-of-way to the bicycle parking facility. Directions to employee bicycle parking facilities may be signed or supplied as appropriate.
- (9) Paving/Surfacing. Outdoor bicycle parking facilities must be surfaced in the same manner as the motor vehicle parking or with a minimum of one-inch thickness of hard surfacing (i.e., asphalt, concrete, pavers, or similar material). This surface will be maintained in a smooth, durable, and well drained condition.

Applicant Response: The outdoor bike racks are proposed to be installed on concrete pads, in accordance with this standard.

(10) Rental. Bicycle parking spaces required by this Development Code may not be rented or leased except where required motor vehicle parking is rented or leased. [Ord. 968 § 2.6 (Exh. F), 2022; Ord. 933 § 5.7, 2019.]

Applicant Response: There are not bicycle rentals associated with this project. This standard does not apply.

SECTION 18.25.080 Moving structures.

No structure may be moved within or into the City without conforming to this Development Code, building codes, and other applicable ordinances of the City. A moving permit must be obtained from the City in advance of the move.

(1) Requirements. Prior to issuing a moving permit, the applicant must obtain all required permits and approvals to connect the structure to necessary utilities, including, but not limited to, water, sewer, and power.

While moving is in progress, the owner of said structure must protect passersby and citizens of the City from injury due to conditions of the structure or the property from which the structure was moved. Structures cannot be left on public streets after sunset, unless the owner has obtained permission of the City Council. The owner of the structure or the mover shall provide flares and a night watchman for protection of the citizens using said streets.

Within ninety (90) days after a structure has been moved onto a lot within the City, the structure shall have been placed upon its foundation in accordance with the building code and shall connect to necessary utilities. The Community Development Director may grant an extension of up to thirty (30) days upon a showing of good cause and reasonable progress. The structure must have been so remodeled and redesigned as to meet requirements of state building codes. All scrap lumber, trash, debris, and other materials including timbers and equipment for the moving of the structure must be removed from the premises; and all holes, underground structures, and excavations shall be filled to the rough grade level as indicated in the building permit. No such structure may be occupied until all the above requirements are met.

(2) Cleanup Required. Within ten (10) days after a structure is moved, the lot from which the structure was moved must be cleared of all debris, including pipe, concrete, scrap lumber, and other materials which will cause a health hazard, nuisance, or constitute a danger; all basements, abandoned septic tanks and wells must be filled with earth, except that upon written application, the City Council may give permission for useful basements or other structures to remain; provided the same are fenced or left open only for such period of time as the City Council may allow. [Ord. 933 § 5.8, 2019.]

Applicant Response: No structures are proposed to be moved to or from the property with this application. This criteria does not apply.

SECTION 18.25.090 Vision clearance.

Vision clearance must be maintained in all zoning districts. The size of the vision clearance area is described below and shown in MDC Figure 18.25.090-1:

- (1) The minimum distance is 20 feet at intersections comprised of two streets or one street and a railroad right-of-way.
 - (a) Exception. This standard does not apply to the Downtown Commercial Zone (C2).
- At intersections of commercial/industrial access, the minimum distance is 15 feet.
- (3) At intersections including an alley, the minimum distance is 10 feet.

Applicant Response: Clear vision areas are shown on the site plan included with this application and are free from visual obstructions. This standard has been met.

SECTION 18.25.100 Signs.

Sign placement and size is regulated according to Chapter 18.35 MDC. [Ord. 933 § 5.10, 2019.]

Applicant Response: Sign standards are addressed in Section 18.35 of this narrative.

SECTION 18.25.110 Outdoor storage, trash collection, and loading spaces.

The following standards are intended to reduce the impacts of outdoor storage, loading, and operations areas on adjacent land uses.

- (1) Areas for truck parking and loading must be screened by a combination of attractive structures and evergreen landscaping to minimize visibility from adjacent streets.
- (2) Outdoor storage, loading, and operations areas must be attractively screened from adjacent parcels and streets.
- (3) Outdoor storage, trash collection and/or compaction, loading, or other such uses must be located in the rear of the lot where feasible.
- (4) Outdoor storage, HVAC equipment, trash collection or trash compaction, and other service functions must be incorporated into the overall site design. Views of these areas must be screened from visibility from all property lines and separated from sidewalks and on-site pedestrian walkways. Screening structures must be made of the same materials as the principal structure.
- (5) Areas for the storage and sale of seasonal merchandise must be permanently defined and screened with walls and/or fences. Materials, colors, and design of screening walls and/or fences must conform to those used in the principal structure. If such areas are to be covered, then the covering must conform to the colors on the building.
- (6) Outdoor display and storage must not encroach on any portion of a walkway, drive aisles, or required parking spaces. No areas for outdoor storage, trash collection or trash compaction, loading, or other such uses may be located within 30 feet of any internal pedestrian walkway. [Ord. 933 § 5.11, 2019.]

Applicant Response: No outdoor storage areas are proposed. The trash collection area is located in an area that is accessible and the enclosure will screen the receptacles from view.

SECTION 18.25.120 Historic structure preservation.

Upon receiving an application for demolition or major exterior alteration involving a historic area, site, structure, or object, as designated by the Comprehensive Plan, the Planning Commission in a public meeting shall review the application to determine its conformance with the historic preservation factors of this Development Code.

The City shall allow owners of inventoried historic resources to refuse historic resource designation at any time prior to adoption of the designation and must not include a site on a list of significant historic resources if the owner of the property objects to its designation. The City must allow a property owner to remove from the property a historic property designation that was imposed on the property by the local government.

The City shall not issue a permit for demolition or modification of a historic structure within one hundred twenty (120) days from the date the property owner requested the removal of a historic structure designation from the property.

- (1) Demolition Procedure. If it is determined the land use action will result in the demolition or extensive exterior modification of any historical building, the Planning Commission shall review the application taking into account the following:
 - (a) State of repair of the building.
 - (b) The reasonableness of the cost of restoration or repair.
 - (c) The purpose of preserving such designated historical building and site(s).
 - (d) The character of the neighborhood.
 - (e) All other factors the Planning Commission feels are appropriate.

Following Planning Commission review, the Planning Commission may approve or deny the permit for land use action or delay action for sixty (60) days to allow cognizant agencies to explore alternatives. If no suitable alternatives are available, the permit may be issued. The Planning Commission, upon finding significant progress is being made toward preserving the structure, may extend the delay for an additional thirty (30) days.

- (2) Major Exterior Alteration Procedure. Exterior alterations must be in accordance with the following:
 - (a) Upon receipt of an application for a major exterior alteration of a historic structure listed in the Comprehensive Plan, the Planning Commission, in a public meeting, shall review the proposed alteration to determine if the resource's historical significance will be altered. This review is based on the criteria for determining historic significance contained in the Comprehensive Plan.

- (b) Major exterior alterations as defined by this action include any change or alteration of a facade, texture, design, materials, fixtures, or other treatment.
- (c) All applications for major exterior alterations must be accompanied by plans and specifications of the proposed alteration. The Planning Commission may request additional sketches and other information deemed necessary to make an informed decision.
- (d) In order to approve the application, the Planning Commission must find the alteration harmonious and compatible with the resource with respect to style, scale, texture, and construction materials and/or find the alteration will enhance the historical value of the resource. Conditions may be attached to the approval if the Planning Commission deems it necessary to achieve the above objectives. The Planning Commission must deny the request if the proposal would reduce the resource's value or historic significance. Conditions attached to a permit for a major exterior alteration of a historic structure shall be limited to permit requirements addressing architectural design, surface texture, materials, fixtures, or other facade or surface treatments which are deemed inconsistent with the integrity of the historic values being preserved.

The Planning Commission shall not make any recommendation or requirement except for the purpose of preventing developments out of character with the historic aspects of the resource.

(e) Nothing in this section shall be construed to prevent the ordinary maintenance or repair of any exterior architectural feature which does not involve a change in design, or the construction, reconstruction, or alteration of such feature which the building inspectors certify is required by public safety because of an unsafe condition. [Ord. 933 § 5.12, 2019.]Applicant Response: The subject property does not contain any historic structures. This criteria does not apply.

SECTION 18.25.130 Riparian habitat protection.

- (1) Riparian Corridor. A riparian corridor boundary (along Willow Creek within the City limits and urban growth boundary) is hereby established at 50 feet from the top of each bank.
- (2) Activities Within the Riparian Area.
 - (a) The permanent alteration of the riparian area by grading or by the placement of structures of impervious surfaces is prohibited, except for the following uses, provided they are designated to minimize intrusion into the riparian area, and no other options or locations are feasible:
 - (i) Streets, roads, and paths.
 - (ii) Drainage facilities, utilities, and irrigation pumps.

- (iii) Water-related and water-dependent uses.
- (iv) Replacement of existing structures in the same location that does not disturb additional riparian surface area.
- (v) Structures or other nonconforming alterations existing fully or partially within the riparian area may be expanded, provided the expansion does not occur within the riparian area. Substantial improvement of a nonconforming structure in the riparian area shall require compliance with the standards of this Development Code.
- (vi) Existing lawn within the riparian area may be maintained, but not expanded within the riparian area. Development activities on the property shall not justify replacement of riparian area with lawn.
- (vii) Existing shoreline stabilization and flood control structures may be maintained. Any expansion of existing structures or development of new structures shall be evaluated by the Community Development Director and appropriate natural resources agency staff. Such alteration of the riparian area shall be approved only if less invasive or nonstructural methods will not adequately meet the stabilization or flood control needs.
- (b) Removal of riparian vegetation is prohibited, except for:
 - (i) Removal of nonnative vegetation and replacement with native plant species. The replacement vegetation must cover, at a minimum, the area from which vegetation was removed, and must meet or exceed the density of the removed vegetation.
 - (ii) Removal of vegetation for the development of approved water-related or water-dependent uses. Vegetation removal must be kept to the minimum necessary to allow the water-dependent or water-related use.
 - (iii) Trees in danger of falling and thereby posing a hazard to life or property may be removed following consultation and approval from the Community Development Department. If no hazard will be created, the Department may require these trees, once felled, to be left in place in the riparian area.
- (c) Exceptions. The following activities are not required to meet the standards of this section:
 - (i) Commercial forest practices regulated by the Oregon Forest Practices Act.

- (ii) Normal and accepted farming practices other than buildings or structures occurring on land zoned for exclusive farm use and existing in the riparian area prior to the date of adoption of this Development Code.
- (3) Alteration Requiring Mitigation.
 - (a) Permanent alteration of the riparian area by placement of structures or impervious surfaces is allowable under the following procedures, subject to the mitigation requirements of subsection (2) of this section:
 - (i) A setback adjustment as allowed under subsection (3)(c)(ii) of this section.
 - (ii) A variance to the riparian setback approved through the procedures of subsection (3)(c)(ii) of this section.
 - (b) Proposals for development activities within the riparian area allowed in subsection (2) of this section must be reviewed by the Oregon Department of Fish and Wildlife (ODFW), as per OAR 635-415 Fish and Wildlife Habitat Mitigation Policy. A mitigation recommendation must be obtained from ODFW. For purposes of implementing Goal 5, the goal is no net loss of protected resources; correspondingly, the purpose of designing appropriate mitigation sites should be considered at least in Habitat Category 2 (OAR 635-415-030), which strives for no net loss of habitat values. Approval of the development proposal shall be conditional, requiring compliance with the mitigation recommendations of ODFW.
 - (c) Setback Adjustment.
 - (i) Qualifying Lots. Lots on which the riparian setback required by this Development Code exceeds any other setbacks in a particular yard, and which, when combined with other required setbacks, results in a building area depth of 25 feet or less, or a building envelope of 800 square feet or less.
 - (ii) Setback Reduction Procedure. Setback reduction shall be the minimum necessary to create either a building envelope 25 feet deep, or a building envelope of 800 square feet (whichever requires a lesser reduction of the setback). The setback opposite the riparian area may be reduced up to one-half (1/2) of the standard setback. If this does not create a sufficient building envelope, the riparian setback may be reduced up to one-half (1/2) the required setback. Additional reductions of setbacks require a variance pursuant to MDC 18.50.040. Removal of vegetation within the original riparian setback shall be the minimum necessary to allow development of the use and must otherwise conform with the standards of subsection (2)(b) of this section. [Ord. 933 § 5.13, 2019.]

Applicant Response: The subject property is not contain any riparian habitat protection areas. This criteria does not apply.

SECTION 18.25.140 Wetland notification.

Written notice must be provided to the Oregon Division of State Lands (DSL) of applications involving lands that are wholly or partially within areas that are identified as wetlands on the Statewide Wetlands Inventory. Wetland boundaries must be verified in the field by a qualified professional before any application for development in or adjacent to a wetland is accepted as complete.

- (1) Notice must be sent within five working days of the acceptance of a complete application for a subdivision, building permit for new structure, planned development, or any other development permit or approval that allows physical alteration of the land involving excavation, grading, fill, or construction on the land, and any development in a flood hazard area.
- (2) Notice must be sent if the City receives information that there is a possible wetland on the subject property following acceptance of the application.
- (3) Notice is not required for any application listed in MDC <u>18.25.130</u> if a permit has been issued by the Division of State Lands for that activity.
- (4) If the Division of State Lands fails to respond to the notice from the City within thirty (30) days of the postmark date of the notice, the City may issue an approval for the proposed activity with written notice to the applicant and owner of record that the proposed activity may require state or federal permits.
- (5) The City may issue an approval for a Comprehensive Plan Map or Zoning Map amendment for parcels identified as or including wetlands on the Statewide Wetlands Inventory upon providing to the applicant and the owner of record of the affected parcel a written notice of the possible presence of wetlands and the potential need for state and federal permits, and providing the Division of State Lands with a copy of the notification of Comprehensive Plan Map or Zoning Map amendment for specific properties.
- (6) The City may issue approval for any activity listed in MDC $\underline{18.25.130}$; provided, that the approval includes one of the following statements:
 - (a) Issuance of a permit under ORS $\underline{196.665}$ and $\underline{196.800}$ by the Division of State Lands is required for the proposed project before any physical alteration takes place within the wetlands;
 - (b) Notice from the Division of State Lands that no permit is required; or

- (c) Notice from the Division of State Lands that no permit is required until specific proposals to remove, fill, or alter the wetlands are submitted to DSL.
- (7) Notice of activities authorized within an approved wetland conservation plan must be provided to the Division of State Lands within five days following approval by the City.
- (8) Failure of the City to provide notice to the Division of State Lands as required in this section will not invalidate City approval of the proposed activity. [Ord. 933 § 5.14, 2019.]

Applicant Response: The subject property is not contain wetlands. This criteria does not apply.

SECTION 18.25.150 Flag pole standards.

The height and illumination of flag poles must comply with the provisions of MDC Table 18.25.150-1, Flag Pole Regulations, below.

Table 18.25.150-1. Flag Pole Regulations

Zoning District	Maximum Flag Pole Height	Illumination Permitted	Illumination Requirements
R-1, R-2, R-3	No greater than 5 feet above dwelling height	Yes	Full cut-off fixtures, up lighting
C-1, C-2, C-3	35 feet	Yes	Full cut-off fixtures, up lighting
NC	20 feet	Yes	Full cut-off fixtures, up lighting
I	35 feet	Yes	Full cut-off fixtures, up lighting
OS/PF	35 feet	Yes	Full cut-off fixtures, up lighting
AD	35 feet	Yes, subject to FAA approval	Full cut-off fixtures, up lighting, and subject to compliance with the applicable FAA regulations

[Ord. 933 § 5.15, 2019.]

Applicant Response: No flagpoles are proposed with this application. This criteria does not apply.

SECTION 18.25.160 Outdoor lighting standards.

(1) Purpose. The purpose of the outdoor lighting standards is to allow reasonable uses of outdoor lighting for nighttime safety, utility, security, and enjoyment while preserving the ambiance of the night; curtail and reverse any degradation of the nighttime visual environment and the night sky; minimize glare and obtrusive light by limiting outdoor lighting that is

misdirected, excessive, or unnecessary; conserve energy and resources to the greatest extent possible; and help protect the natural environment from the damaging effects of night lighting.

- (2) Outdoor Lighting Standards.
 - (a) Outdoor lighting, including that for signage, must not project directly into an abutting lot.
 - (b) Unless necessary for safe and convenient air travel, outdoor lighting must not project directly into the airport runway, taxiway, or approach safety zone.
 - (c) All outdoor lighting must be shielded such that the source of light, or light reflective or amplifying device, is not visible from adjacent properties or right-of-way.
 - (d) Outdoor lighting shall not blink, strobe, move, or rotate unless required by the FAA.
 - (e) Unless otherwise provided in the Development Code, lighted poles must not exceed 20 feet in height.
 - (f) Wiring for monument signs and similar permanent lighting installations must be underground or otherwise not visible.
 - (g) All street lighting must comply with the design and construction standards. [Ord. 933 § 5.16, 2019.]

Applicant Response: Each apartment building will have outdoor wall pack lighting and the site parking lot will contain pole mounted lighting. See architectural plans for site lighting details.

SECTION 18.25.170 Landscaping standards.

(1) General Standards. Unless otherwise specified for a specific use or zone in this Development Code, the minimum amount of landscaping is established by zone as follows:

Lot 4 is 2.77 acres (120,480 sf) and the required 15% landscape area is 18,072 sf. The proposed landscaped area (including the open space/common areas) is 21,865 sf which is equal to 18.1%.

In addition to the landscaping and common areas, the apartment development includes several areas that are proposed to remain native; set aside for the protection/enhancement of the natural environment and topography. These areas are not included in the common area or landscape area calculations.

- (2) Specific Standards. Landscaping shall comply with the following standards:
 - (a) Plant Selection. Native vegetation shall be preserved or planted where practical. A combination of live nonnative deciduous and evergreen trees, shrubs and ground covers, including lawn, shall be used for all planted areas. Drought-tolerant plantings are encouraged. Fire-resistive plants should be planted in areas or on slopes where necessary to reduce the risk of fire spreading to structures. As necessary, soils shall be amended to allow for healthy plant growth.

Applicant Response: Undisturbed areas will be left with native vegetation. Disturbed areas that will not be planted with trees and shrubs will be seeded with native bunch grasses. They will grow in these areas overtime. Rabbit brush and sagebrush will also volunteer in these areas. The landscape contractor is required to amend the soil to aid in the successful growth of the plants. Gravel mulch is proposed adjacent and around all buildings so that a ground flame cannot be carried to buildings.

(b) Hardscape Features.* Ground-level areas for passive use, such as patios, decks, plazas, paved dining areas, etc., may cover up to fifteen percent (15%) of required landscaping area; swimming pools, sports courts and similar active recreation facilities may not be counted toward fulfilling the landscaping requirement.

Applicant Response: The proposed paver patio area is 1,772 sf, which accounts for 8.1% of the total landscape area. Tables, chairs, pedestal grills and shade trees are proposed in the plaza area.

(c) Stormwater Facilities. Stormwater facilities (e.g., detention/retention ponds and swales) that are landscaped can be counted in the required amount of landscaped area on the site. Planting of broadleaf canopy trees is encouraged as effective surface water interceptors.

Applicant Response: There are no swales or retention ponds proposed. This criteria does not apply.

(d) In the R-1, R-2, and R-3 zones, at least fifty percent (50%) of the required landscaping must be located in the front yard setback or otherwise between the structure and the front property line.

Applicant Response: The front property line accounts for a small portion of the Lot 4 perimeter; however, more than 50% of the proposed landscaping (dog park, path, paver patio, native open space along Oak Street) is located in the front yard setback or between the proposed structures and front property line.

(e) Landscaped areas must be appropriately irrigated. Xeriscaping may be unirrigated at the discretion of the Community Development Director.

Applicant Response: All plantings except lawn will be irrigated with a drip system. Lawn will be irrigated with spray irrigation, with head to head coverage.

- (f) Required landscaping must be continuously maintained. Plants or trees that die or are damaged must be replaced and maintained similar to initially installed landscaping.
- (g) Surface drainage must be managed in accordance with the Public Improvement Standards.
- (h) Ground-level areas for passive use, such as patios, decks, etc., may cover up to fifteen percent (15%) of the required landscaping area; swimming pools, sports courts, and similar active recreation facilities may not be counted toward fulfilling the landscape requirement.

Applicant Response: Landscaping will be installed as approved with each future building permit. Landscaped areas will include the front and side portions of the apartment buildings, open space areas as well as along the proposed private street. All new landscaping will be properly irrigated and maintained in accordance with these standards.

- (3) Dwellings.
 - (a) New Construction. Landscaping is required on the front and side portions of the lot adjacent to the dwelling or structure. The developer is required to put up security in an amount established by the City's fee schedule to the Finance Department for landscaping prior to obtaining the building permit for the dwelling or structure. Once the landscaping has been completed, the Finance Department shall release the bond back to the developer. The developer has one year from the date of final inspection to complete landscaping the lot.
 - (b) Existing Dwelling. The existing landscaping (lawn, flowers, trees, shrubs, etc.) must be maintained and kept in healthy condition. If the yard(s) are left to weeds and noxious vegetation, the City may prosecute the violation under the City's nuisance ordinance, Chapter 8.15 MMC.
 - (c) Manufactured Dwelling Parks. Landscaping within manufactured dwelling parks shall comply with the applicable provisions of MDC <u>18.30.030</u>.
 - (d) Townhomes. Landscaping for townhome developments shall comply with the applicable provisions of MDC <u>18.30.191</u>.
 - (e) Cottage Cluster. Landscaping for cottage cluster developments shall comply with the applicable provisions of MDC <u>18.30.192</u>.

Applicant Response: Please see the landscape plans submitted with this application to see how the proposed landscape will meet these requirements.

- (4) Commercial/Industrial/Institutional/Other Nonresidential (Including Nonresidential in Residential Zone).
 - (a) Landscape plans must be submitted with the site plan application and must receive approval.
 - (b) All unused portions of the property must be maintained with landscaping consisting of ground cover or planted grass, shrubs, trees, flower beds, bark dust, or other suitable landscaping.
 - (c) The property owner is responsible for establishing and maintaining the landscaping on the lot.
 - (d) Unenclosed parking areas/storage areas for five or more vehicles, and all associated maneuvering areas, must be landscaped and screened as follows:
 - (i) At least seven percent (7%) of the parking lot area must be landscaped. Trees must be planted at a ratio of one tree per ten (10) parking spaces to achieve a canopy effect over fifty percent (50%) of the lot area.
 - (ii) Landscape buffers are required between parking areas and streets and must have a minimum width of three feet.
 - (iii) Landscape buffers between parking areas abutting a property line must have a minimum width of three feet.
 - (iv) Front or exterior yard landscaping may not be submitted for the interior landscaping required for interior parking stalls.
 - (v) There must be a minimum distance of five feet between parking areas and adjacent residential lots.
 - (vi) Landscape buffers must consist of evergreens, ground cover, and shrubs mixed with a variety of flowering and deciduous plant species of trees and shrubs.
 - (vii) Landscaping in a parking or loading area shall have a width of not less than five feet. Landscaping in a parking lot or loading area shall be located in defined landscaped areas which are uniformly distributed throughout the parking or loading area.

(e) Required landscaping shall be continuously maintained. Landscaped areas shall be irrigated, except for xerophytic plantings (e.g., plants in drainage infiltration swales).

Applicant Response: The proposed project is a residential development so this section does not apply.

- (f) Public gathering areas, such as plazas, atriums, and courtyards, shall have at least fifteen percent (15%) of the design devoted to planted beds or containers, water features, public art, and other amenities.
- (g) The required square footage of landscaping may be reduced by ten percent (10%) if any of the following are incorporated into the development plan:
 - (i) Use of drought-tolerant plants throughout the plan per Xeriscaping in the High Desert: Guide for Central Oregon, 2005, or an alternative planting list approved by the City;
 - (ii) Preservation of rock outcroppings and native habitat areas greater than 500 square feet in area;
 - (iii) Provision of cross-access easements connecting primary drive aisles between adjacent properties;
 - (iv) Connection to a City Engineer-approved off-site stormwater management facility. [Ord. 968 § 2.5 (Exh. E), 2022; Ord. 933 § 5.17, 2019.]

Applicant Response: The proposed landscape is a mix of low water to higher water needs (lawn areas) plants. The purpose of the plant often takes precedence over the water needs of the plants because some of the planting areas are small. Additionally, trees are very important now with climate warming to provide shade and capture carbon.

SECTION 18.25.180 Transportation impact studies.

- (1) Applicability.
 - (a) A transportation impact analysis shall be required under the following circumstances:
 - (i) The development generates fifty (50) or more peak hour trips or five hundred (500) or more daily trips.
 - (ii) An access spacing exception is required for the site access driveway(s) or access is proposed from an arterial or collector street.

- (iii) The development is expected to impact intersections that are currently operating at the upper limits of the acceptable range of level of service during the peak operating hour.
- (iv) The development is expected to significantly impact adjacent roadways and intersections that have previously been identified as high accident locations or areas that contain a high concentration of pedestrians or bicyclists such as school zones.
- (v) Otherwise as determined by the Public Works Director.
- (b) All development subject to site plan review, but not meeting the thresholds for a transportation impact analysis, will be required to submit a transportation assessment letter to the reviewing agencies prepared by an Oregon licensed transportation engineer indicating why the proposed land use action is exempt. This letter should outline the potential trip-generating characteristics of the proposed land use action and verify that the site-access driveways or roadways meet sight-distance requirements and City of Madras roadway design standards.

Applicant Response: A Traffic Impact Analysis (TIA) has been prepared by Transight Consulting and is included with this application.

- (2) Requirements of a Transportation Impact Analysis. Transportation impact analyses shall meet the following standards:
 - (a) Licensed Professional. Transportation impact analyses shall be prepared by a licensed professional engineer registered in the State of Oregon.
 - (b) Study Area. The transportation impact analysis area should include, at a minimum, all site-access points and intersections (signalized and unsignalized) adjacent to the proposed development site. In particular, if the proposed site fronts an arterial or collector street, the transportation impact analysis should include all intersections along the site frontage and within the access spacing distances extending out from the boundary of the site frontage. Beyond the minimum study area, the transportation impact analysis should evaluate all intersections that receive site-generated trips that make up at least ten percent (10%) or more of the total intersection volume. In addition to these requirements, the Public Works Director (or his/her designee) shall determine any additional intersections or roadway links that might be adversely affected as a result of the proposed development. If the study area includes any state and/or County facilities, then the state and/or County shall be notified and provided an opportunity to comment on the transportation impact analysis.
 - (c) Study Period. The following study periods or horizon years shall be analyzed:

- (i) Existing Year Analysis. Assesses all existing roadways, intersections, and land uses within the study area.
- (ii) Background Analysis. Assesses the expected roadway, intersection, and land use conditions in the year the proposed land use action is expected to be fully built out, without the expected traffic from the proposed land use action. This analysis should include all in-process developments, or those City-approved developments that are expected to be fully built out in the proposed land use action horizon year.
- (iii) Full Build-Out Traffic Analysis. Assesses the expected roadway, intersection, and land use conditions resulting from the background growth and the proposed land use action assuming full build-out and occupancy.

Applicant Response: The TIA was prepared by a Licensed Professional Engineer and analyzed the following intersections:

- NE 7th Street/NE Oak Street
- NE 10th Street/NE Oak Street
- NE 12th Street/NE Oak Street
- NE Oak Street/Proposed Site Access (Stone Oak Court)

The analysis includes projected impacts at full build out of the project which is estimated to be the year 2027. See TIA for details.

(d) Peak Hour Analysis. Within each horizon year, specific consideration should be directed to the time period(s) that experience the highest degree of network travel. These periods typically occur during weekday mornings (7:00 a.m. to 9:00 a.m.) and weekday evenings (4:00 p.m. to 6:00 p.m.) and are known as peak commuting hours. The transportation impact analysis should always address the weekday a.m. and p.m. peak hours when the proposed land use action is expected to generate twenty-five (25) trips or more during the peak time periods. If the applicant can demonstrate that the peak hour trip generation of the proposed land use action is negligible during one of the two peak study periods and the peak trip generation of the land use action corresponds to the roadway system peak, then only the worst-case study period need be analyzed. Depending on the proposed land use action and the expected trip-generating characteristics of that development, consideration of nonpeak hour travel periods may be appropriate. Examples of land uses that have nontypical trip-generating characteristics include schools, restaurants, nightclubs, and churches. The Public Works Director (or his/her designee) and applicant should discuss the potential for additional study periods prior to the commencement of the transportation impact analysis.

Applicant Response: Traffic counts were collected in the am and pm and reflect peak summer traffic volumes, in accordance with this standard. See TIA for the peak hour analysis details.

(e) Traffic Count Requirements. Turning movement counts shall be collected at all study area intersections to determine the base traffic conditions. These turning movement counts shall be conducted Tuesday through Thursday between 7:00 a.m. and 9:00 a.m. and between 4:00 p.m. and 6:00 p.m., depending on the proposed land use. Notwithstanding the foregoing, historical turning movement counts may be used if the data are less than twelve (12) months old, but must be factored to meet the existing traffic conditions.

Applicant Response: Traffic counts were collected in the am and pm and reflect peak summer traffic volumes, in accordance with this standard. See TIA for traffic count details.

- (f) Trip Generation for the Proposed Development. To determine the impacts of a proposed development on the surrounding transportation network, the trip-generating characteristics of that development must be estimated. Trip-generating characteristics should be obtained from one of the following acceptable sources:
 - (i) Institute of Transportation Engineers (ITE) Trip Generation Manual (latest edition).
 - (ii) Specific trip generation studies that have been conducted for the particular land use action for the purposes of estimating peak hour trip-generating characteristics. The Public Works Director (or his/her designee) should approve the use of these studies prior to their inclusion in the transportation impact analysis.

In addition to new site-generated trips, several land uses typically generate additional trips that are not added to the adjacent traffic network. These trips include pass-by trips and internal trips and are considered to be separate from the total number of new trips generated by the proposed development. The procedures listed in the Trip Generation Manual (ITE) should be used to account for pass-by and internal trips.

Applicant Response: The project is estimated to generate less than 500 weekday daily trips but more than 25 peak hour trips (26 AM Peak Hour and 34 PM Peak Hour). Because the proposed development includes a rezone from R-1 to R-3, the study also requires compliance with the Transportation Planning Rule provisions for Plan and Land Use Regulation Amendments (OAR 660-012-0060) which is addressed separately in the TIA.

- (g) Trip Distribution. Estimated site-generated traffic from the proposed development shall be distributed and assigned on the existing or proposed arterial/collector street network. Trip distribution methods should be based on a reasonable assumption of local travel patterns and the locations of off-site original/destination points within the site vicinity. Acceptable trip distribution methods should be based on one of the following procedures:
 - (i) An analysis of local traffic patterns and intersection turning movement counts can be used, as long as the data have been gathered within the previous 12 months.

(ii) A detailed market study specific to the proposed development and surrounding land uses can be used to determine the specific influence area. Site-generated traffic within the identified influence area should be distributed based on principles and concepts associated with the gravity model theory.

Applicant Response: The estimated trip distribution pattern was prepared based on the location of the site relative to non-residential trip attractions within the City of Madras, with most travel oriented toward the US 97 corridor for access to employment opportunities and commercial services. See TIA for trip distribution figures.

- (h) Intersection Operation Standards. To identify impacts of the proposed land use action on the transportation system, the transportation impact analysis must compare the existing, background, and full build-out intersection traffic volumes to the minimum intersection operation standards. The City of Madras evaluates intersection operational performance based on levels of service and "demand-to-capacity" (d/c) calculations.
- (i) Intersection Demand-to-Capacity Analysis. A capacity analysis should be performed at all intersections within the identified study area. The methods identified in the latest edition of the Highway Capacity Manual, published by the Transportation Research Board, are to be used for all intersection capacity calculations. The City of Madras requires that all intersections within the study area must maintain a d/c ratio of 0.95 or less.
- (j) Intersection Levels of Service. The City of Madras requires all intersections within the study area to maintain an acceptable level of service (LOS) upon full build-out of the proposed land use action. LOS calculations for signalized intersections are based on the average control delay per vehicle, while LOS calculations for un-signalized intersections are based on the average control delay and volume-to-capacity ratio for the worst or critical movement. All LOS calculations should be made using the methods identified in the most recent version of the Highway Capacity Manual published by the Transportation Research Board. The minimum acceptable level of service for signalized intersections is LOS "D," while the minimum acceptable level of service for un-signalized intersections is LOS "E" or LOS "F" with a d/c ratio of 0.95 or less. Any intersections not operating at these standards will be considered unacceptable.

Applicant Response: The traffic operations analysis was prepared using the HCM 6th Edition methodology and Synchro analysis software at the study intersections. The inputs included data from the traffic counts, such as pedestrians, cyclists, trucks, and passenger vehicles within the peak hour. All traffic operations within this report reflect peak fifteen-minute conditions. None of the intersections studied had a resultant level of service less that LOS B. The performance standards, levels of service and design hour conditions are detailed in the TIA.

(k) Modifications. The Public Works Director may amend or waive any requirement of a transportation impact analysis.

(3) Transportation Planning Rule. Every application subject to the Transportation Planning Rule shall include discussion and proposed findings of compliance with the Transportation Planning Rule as part of the transportation assessment letter or transportation impact analysis, as applicable.

Applicant Response: The Transportation Planning Rule Compliance is included in the TIA and: the Findings and Recommendations are as follows:

FINDINGS AND RECOMMENDATIONS

The traffic study prepared for the proposed Oak Street multifamily development identifies the following:

- The proposed 3.5-acre multifamily project is planned to consist of 60 multifamily units and 3 single-family detached homes with access from a new local street to NE Oak Street.
- The proposed development is estimated to generate 432 weekday daily trips of which 26 trips are expected to occur during the weekday a.m. peak hour and 34 during the weekday p.m. peak hour.
- The site is currently zoned R-1 and the project includes rezoning the site from R-1 to R-3 to support this project. The TPR analysis shows that the proposed multifamily plan is less intense than what is permitted with the existing R-1 zoning. A significant impact does not occur with the proposed rezone. Further demonstration of TPR compliance is not required.
- No sight distance issues were identified at the proposed local street connection to NE Oak Street. However, with the steep grades it is recommended that the embankments be sloped to maintain the clear sight lines available today.
- There are no crash patterns within the study area identified from review of historical data.
- Traffic operations show that all study intersections meet City operation standards today, in the future build-out year, and with buildout of the site in the year 2027.
- Frontage improvements on NE Oak Street should include sidewalks and a landscape strip.
- The new local street should be built to City standards to include 55 feet of right-of-way, sidewalks, on-street parking, and a landscape strip.
- The project should support Citywide transportation improvements through payment of Transportation SDCs.

- (4) Review Policy and Procedure. To be utilized as part of an application for a land use approval, the Public Works Director must approve, or approve with conditions, the traffic assessment letter or transportation impact analysis based on the following considerations:
 - (a) The road system is designed to meet the projected traffic demand at full build-out and the functional roadway classification standards are consistent with the proposed use.
 - (b) Access is properly placed in relation to sight distance (i.e., does the driveway location meet both intersection and stopping sight distance requirements), driveway spacing, and other related considerations, including opportunities for joint or crossover access.
 - (c) The driveway access for dwelling units is located on interior residential access streets rather than major roadways.
 - (d) Traffic movement within the site is provided without having to use the peripheral road network.
 - (e) The road system provides adequate access to buildings for residents, visitors, deliveries, emergency vehicles, and garbage collection.
 - (f) The site plan provides for potential future crossover of consolidated access, and/or alternative access.

Applicant Response: The applicant understands the review policy and procedure associated with the Traffic Impact Analysis.

- (5) Conditions of Approval. As part of approving a transportation assessment letter or transportation impact analysis, the Public Works Director may impose conditions of approval including, without limitation, the following:
 - (a) Crossover easement agreements between adjoining parcels.
 - (b) Access restrictions including requiring shared access.
 - (c) Right-of-way dedications including dedications for multi-use paths.
 - (d) Street improvements including traffic signs and signals.
 - (e) Trip caps. [Ord. 933 § 5.18, 2019.]

Applicant Response: The applicant understands that specific Conditions of Approval may be imposed as it relates to transportation criteria above.

SECTION 18.25.190 Exterior colors.

The exterior of any structure shall be a color consistent with Ordinance 845^* . [Ord. 933 § 5.19, 2019.]

Applicant Response: The proposed exterior colors are consistent with Ordinance 845 which consists of mild earthy neutral tones that complement one another. The tones are used discretely on each building throughout the development.

Chapter 18.30: SPECIAL STANDARDS FOR CERTAIN USES

SECTION 18.30.020 Manufactured homes.

- (1) Permitted Zones.
 - (a) A manufactured home on a single unit of land is allowed in any zone in which single-family dwellings are permitted.
 - (b) Manufactured homes are permitted in any manufactured home park regardless of zoning.
- (2) General Criteria.
 - (a) The manufactured home must possess an insignia of compliance, tag, or other documentation indicating conformance with state and federal standards applicable to the manufactured home.
 - (b) All manufactured homes shall connect to approved water, sewer, and electrical infrastructure within thirty (30) days of the structure being sited on a property.
 - (c) Manufactured homes must meet all Federal Emergency Management Agency (FEMA) standards and standards in Chapter 18.45 MDC if placed in a flood hazard area.
 - (d) Manufactured homes must comply with all other requirements in the zoning district in which the manufactured dwelling will be located.
 - (e) Manufactured homes must comply with MDC <u>18.30.190</u> to the same extent as single-unit dwellings.
- (3) Additional Criteria for Manufactured Dwellings on a Single Lot.
 - (a) The manufactured dwelling shall not be more than fifteen (15) years old at the time of siting.

- (4) Additional Criteria for Manufactured Dwellings in Manufactured Dwelling Parks.
 - (a) Manufactured homes shall comply with state building codes for setup of the dwelling in the manufactured dwelling park. [Ord. 968 § 2.6 (Exh. F), 2022; Ord. 933 § 6.2, 2019.]

(...)

Applicant Response: There are no manufactured homes proposed. This criteria does not apply.

SECTION 18.30.050 Residential accessory structure standards.

- (1) Purpose. In an effort to protect and enhance the existing and future residential character of the City of Madras, the City Council adopted these residential accessory structure standards. The residential accessory structure standards are intended to ensure residential accessory structures are compatible with existing residential development and neighborhoods by:
 - (a) Ensuring appropriate storage of vehicles and personal property in residential areas.
 - (b) Ensuring that residential accessory structures are similar to the existing form of residential development in the City.
 - (c) Ensuring that residential accessory structures remain incidental and subordinate to residential uses occurring on the lot.

Applicant Response: There are no accessory structures proposed. This criteria does not apply.

- (2) Applicability. The provisions of this section apply to all lots containing residential accessory structures except that greenhouses and residential accessory structures that do not require a building permit are not subject to the design standards in subsection (4) of this section.
- (3) Establishment. Residential accessory structures shall be established in the following manner:
 - (a) No residential accessory structure is permitted on any lot unless a dwelling has been lawfully established thereon.
 - (b) All building permits required by the Building Official must be obtained.

Applicant Response: There are no accessory structures proposed. This criteria does not apply.

- (4) Design Standards. Residential accessory structures must meet the following design standards:
 - (a) Garage.

- (i) Where the dwelling on the property does not have at least a one-car garage, the first residential accessory structure must be a fully enclosed garage with a garage door, attached or detached from the dwelling, of at least 150 square feet, and constructed of similar materials, colors, and designs as the dwelling.
- (ii) Where the dwelling on the property has at least a one-car garage, which may be a residential accessory structure (i.e., a detached garage), all additional residential accessory structures must have at least three exterior walls. These walls must have exterior siding similar to the siding of the dwelling on the property. A garage door is not required.
- (b) Exterior Paint. Residential accessory structures shall have similar base and trim color as the primary dwelling structure on the property.
- (c) Siding. Residential accessory structures shall have similar siding material as the primary dwelling structure on the property.
- (d) Windows. Windows shall match those of the primary dwelling structure in terms of proportion (height and width ratio) and orientation (vertical vs. horizontal).

Applicant Response: There are no accessory structures proposed. This criteria does not apply.

- (5) Dimensional Standards.
 - (a) The total square footage of all residential accessory structures on a lot shall not exceed the more restrictive of the following:
 - (i) Nine hundred fifty square feet for lots of 10,000 square feet or less.
 - (ii) For lots greater than 10,000 square feet:
 - (A) The total square footage of all residential accessory structures shall not exceed nine and one-half percent of the area of the lot.
 - (B) Notwithstanding subsection (5)(a)(ii)(A) of this section, a single residential accessory structure shall not exceed the maximum square footage under subsection (5) of this section, 2,200 square feet or the square footage of the dwellings then located on the lot, whichever is less.
 - (iii) Notwithstanding anything to the contrary, the total square footage of all residential accessory structures on a lot shall not exceed one hundred fifty percent (150%) of the square footage of the primary dwelling structure on the lot.

- (b) The maximum height of a residential accessory structure is based upon the height of the dwelling of the property.
 - (i) Residential accessory structures on a property with a single-story dwelling shall not exceed one hundred twenty-five percent (125%) of the height of the single-story dwelling except that an accessory dwelling unit may be located on the second floor of a residential accessory structure provided the structure does not exceed 35 feet.
 - (ii) Residential accessory structures on a property with a multi-story dwelling structure shall not exceed the height of the multi-story dwelling structure.
 - (iii) In no case shall a residential accessory structure exceed 35 feet in height.
- (c) Residential accessory structures must comply with the applicable setbacks for the zone in which they are located except that residential accessory structures that exceed the height of the tallest structure containing a dwelling then located on the subject lot must be set back an additional one-half (1/2) foot for each one foot that the proposed residential accessory structure exceeds the height of the tallest dwelling structure.
- (d) The foregoing dimensional standards may be exceeded as part of a site plan approval for residential development subject to site plan approval.
- (e) Residential development not subject to site plan approval may exceed the dimensional standards through approval of a conditional use permit.

Applicant Response: There are no accessory structures proposed. This criteria does not apply.

- (6) Additional Standards for Accessory Dwelling Units. In addition to the standards in this section and those contained in MDC $\underline{18.30.190}$, the following provisions shall also be applicable to accessory dwelling units:
 - (a) Maximum Size. Notwithstanding anything in subsection (5) of this section to the contrary, an accessory dwelling unit shall not be larger than 950 square feet except that an accessory dwelling unit attached to an existing structure shall not result in an expansion of more than twenty percent (20%) of the square footage of the existing structure.
 - (b) Lot Coverage. Same as underlying zone.
 - (c) Setbacks. Same as underlying zone.
 - (d) Process. Accessory dwelling units are processed as a Type I for the first accessory dwelling unit and Type II for an additional accessory dwelling unit.

(e) Second Accessory Dwelling Unit. A second accessory dwelling unit can be approved on the same property, provided the subject property is at least 7,500 square feet and the second accessory dwelling unit otherwise meets the requirements of this code including, without limitation, the conditional use criteria. Only one accessory dwelling unit can be a detached dwelling unit (i.e., one of the accessory dwelling units must be attached to another structure such as the primary dwelling structure or a detached garage).

Applicant Response: There are no accessory structures proposed. This criteria does not apply.

- (7) Exceptions to Design Standards.
 - (a) Process. The Community Development Director may grant waivers or modifications to the standards listed in subsection (4) of this section if the Community Development Director finds that: (i) the waiver or modification will not harm or will be beneficial to the public in general; and (ii) the waiver or modification is not inconsistent with the general purpose, or any City plans or policies, of promoting attractive housing stock. The application for a waiver, modification, or deferral must be in writing submitted as part of a development application and shall be subject to applicable fees established by the City Council. The application must specify the nature of the requested waiver or modification and how the criteria listed above are met. The Community Development Director may impose any condition of approval necessary to satisfy the purposes of this section, including, without limitation, requiring that the developer exceed one particular standard in lieu of meeting another particular standard.
 - (b) Approval Criteria. The Planning Commission may grant an exception, if the following criteria are met:
 - (i) The proposed residential accessory structure is otherwise consistent with the purpose of the residential accessory structure design standards.
 - (ii) At least a one-car garage is provided on the property or the proposed residential accessory structure must include a fully enclosed garage with a garage door, attached or detached from the dwelling, that is sufficient to store an average-size car (150 square feet minimum) and constructed of similar materials, colors, and designs as the dwelling.
 - (iii) The location, size, and design characteristics of the proposed residential accessory structure shall have minimal adverse impact on the livability of the permitted development in the surrounding area.
 - (iv) The proposed residential accessory structure is aesthetically pleasing and functional and relates harmoniously to the natural environment and existing development.

- (v) The proposed residential accessory structure minimizes visual impacts and preserves natural features to the greatest extent practical.
- (vi) The requested exception is the minimum deviation necessary to allow for the proposed residential accessory structure. [Ord. 968 § 2.6 (Exh. F), 2022; Ord. 954 § 2.1 (Exh. B), 2021; Ord. 933 § 6.5, 2019.]

Applicant Response: There are no accessory structures proposed. This criteria does not apply.

SECTION 18.30.060 Affordable housing development.

The City shall take final action within one hundred (100) days after any application for a multifamily residential building containing five or more dwelling units is deemed complete, provided:

- (1) At least fifty percent (50%) of the dwelling units included in the development will be sold or rented as affordable housing; and
- (2) The development is subject to a covenant appurtenant that restricts the owner and each successive owner of the development or a dwelling unit within the development from selling or renting any dwelling unit that constitutes affordable housing in a manner that would not constitute affordable housing for a period of sixty (60) years from the date of the final certificate of occupancy. [Ord. 933 § 6.6, 2019.]

(...)

Applicant Response: The applicant is not proposing more than 50% of the units as affordable housing. This criteria does not apply.

SECTION 18.30.190 Residential design standards.

(1) Purpose. The residential design standards are intended to facilitate the development of attractive housing while promoting multi-modal transportation, attention to detail, human-scale design, street visibility, and privacy of adjacent properties, while affording flexibility to use a variety of architectural styles. They encourage good site design, which contributes to livability, safety, and sustainability; helps create a stronger community; and fosters a quality environment for residents and neighbors.

Applicant Response: The proposed project is set back off of Oak Street and has minimal view from the public way. However, our design speaks to all of the above criteria in a sense that promotes all of these standards: Good site design, easy on-site automobile maneuverability which creates a safer environment. The overall design is in sync with the neighboring properties and will bolster a much stronger visual and higher quality community.

- (2) Aspirational Provisions. The following are not approval criteria but aspirations for residential development with the City. Developers are encouraged to design their developments to achieve the following:
 - (a) Livability. Development should contribute to a livable neighborhood by incorporating visually pleasing design, minimizing the impact of vehicles, emphasizing pedestrian and bicycle connections, providing housing in close proximity to existing commercial uses, and providing public and private open spaces for outdoor use.
 - (b) Compatibility. Development should have a scale that is appropriate for the surrounding neighborhood and maintains the overall residential character of Madras while being sensitive to the natural topography and significant natural features.
 - (c) Safety and Functionality. Development should be safe and functional, by providing visibility into and within a residential development and by creating a circulation system that prioritizes bicycle and pedestrian safety and is well integrated into the city's overall circulation system.

Applicant Response: Each aspect listed above will be met. This garden model apartment has been built in other locations in Central Oregon and has received nothing but praise.

- (3) Applicability.
 - (a) Applicability for New Construction. Residential design standards apply to new construction of all forms of dwellings but are not uniformly applied to each type of dwelling unit or type of site development. Applicability (or nonapplicability) of specific residential design standards to specific dwelling types is set forth in MDC Table 18.30.190-1. Additional design standards for townhouses and cottage clusters can be found in MDC 18.30.191 and 18.30.192.

Applicant Response: The residential design standards listed below are adhered to, each standard has been addressed accordingly and can be found in the Oak Street Apartments "Presentation Set" dated 08 23 23.

- (b) Applicability for Modifications. The residential design standards apply to all modifications or alterations of all dwelling types except as otherwise provided below:
 - (i) Expansions of Structures That Add Area to Any Street-Facing Façade. The design standards for such expansions are applicable as follows:

Applicant Response: No modifications to existing structures are proposed. This criteria does not apply.

Table 18.30.190-1. Applicability of Residential Design Standards by Housing Type in R-1, R-2, R-3, C-1, C-2, and C-3 Zones

	Applicability					
Design Standard	1 – 4 units (attached or detached)	Cottage Clusters	Townhouses	Apartments	Mixed-Use Building or Development	
(a) Articulation	[2]	[2]	[2]	[2]	[10]	
(b) Transparency	[2] [3]	[2] [3]	[2] [3]	[2]	[10]	
(c) Main entrance	[2] [3]	[2] [3]	[2] [3]	N/A	[10]	
(d) Detailed design	[2]	[2] [3]	[2] [3]	[2] [7]	[10]	
(e) Transitional space	[2] [7]	[2] [7]	[2] [7]	[2] [7]	[10]	
(f) Common area	[11]	[8]	[1] [11]	[9] [11]	[11]	
(g) Pedestrian circulation	[1] [5]	[1] [5]	[2] [7]	[1]	[1]	
(h) Off-street parking	[1]	[1] [4]	[1] [4]	[1] [4]	[1] [4]	
(i) Privacy and screening	N/A	[1]	[1]	[1]	[1]	
(j) Storage	[6]	[6]	[6]	[6]	[6]	
(k) Trash enclosures	[12]	[1]	[1]	[1]	[1]	

Legend:

- 1 Applicable to the entire site.
- 2 Applicable to dwellings facing the street; apartments must meet these standards for all ground floor units.
- 3 Applicable to dwellings in a cluster or grouping, either facing a shared open space (e.g., a common courtyard) or a pedestrian path.
- 4 Clustered parking requirements apply for lots with four or more parking spaces.
- 5 Applicable only for additions or new buildings.
- 6 Applicable only for new buildings.
- 7 Applicable to ground floor dwellings with access from the street or shared open space (e.g., a common open space), and access entry door is:
 - (a) Within ten feet of the street-facing property line; or
 - (b) Within the front yard setback; or
 - (c) Within ten feet of a shared open space common tract or easement.

Apartments must meet these standards for all building façades facing a shared open space.

- 8 See special standards for common courtyards in MDC <u>18.30.192</u>.
- 9 Only applicable to dwellings in residential zones.

- 10 Only applicable if residential portion of mixed-use building/development faces the street.
- 11 All residential development in the C-2 and C-3 zones other than cottage cluster developments must provide 50 square feet per dwelling unit for passive use, such as patios (ground level or rooftop), decks, balconies, etc.
- 12 Not applicable to residential developments with three or fewer dwelling units on a particular lot.
- (c) Waivers or Modifications. The Community Development Director may waive or modify any residential design standard if the Community Development Director finds that: (i) the waiver or modification will not harm or will be beneficial to the public in general; and (ii) the waiver or modification is not inconsistent with the general purpose, or any City plans or policies, of promoting attractive housing stock. The application for a waiver, modification, or deferral must be in writing submitted as part of a development application, shall be subject to applicable fees established by the City Council, and shall require that the application be subject to a Type II procedure if not already subject to a Type II or higher procedure. The application must specify the nature of the requested waiver or modification and how the criteria listed above are met. The Community Development Director may impose any condition of approval necessary to satisfy the purposes of this section, including, without limitation, requiring that the developer exceed one particular standard in lieu of meeting another particular standard.

Applicant Response: The residential design standards listed above are adhered to, each standard has been addressed accordingly and can be found in the Oak Street Apartments "Presentation Set" dated 08 23 23.

- (4) Residential Design Standards. All development subject to subsection (3) of this section shall meet the following design standards. The graphics provided are intended to illustrate how development could comply with these standards and should not be interpreted as requiring a specific architectural style. An architectural feature may be used to comply with more than one standard.
 - (a) Articulation. All buildings shall incorporate design elements that break up all street-facing façades into smaller planes as follows:
 - (i) For buildings with 30 to 60 feet in length that faces the street, a minimum of one of the following elements shall be provided along the street-facing façades:
 - (A) A covered porch at least five feet deep.
 - (B) A balcony that is at least two feet deep and is accessible from an interior room.
 - (C) A bay window that extends at least two feet wide.

- (D) A section of the façade that is recessed by at least two feet deep and six feet long.
- (E) A gabled dormer.
- (ii) For buildings over 60 feet in length that faces a street, at least one element in subsection (4)(a)(i) of this section shall be provided for every 30 feet of street frontage. Elements shall be distributed along the length of the façade so that there are no more than 30 feet between two elements.
- (iii) For dwellings with less than 30 feet in length that faces a street, a covered porch at least five feet deep is required.

Applicant Response: These standards are met as follows:

- (A) Covered porches (8' minimum) are provided at each of the buildings at ground floor units.
- (B) Balconies on the 2nd and 3rd level are 4' deep at each building and are accessed from the living room.
- (C) We should discuss this requirement...
- (D) Each Structure provides at least three horizontal offsets that are 4 plus feet (main entrance offset and two rear balcony offsets).
- (E) Each of the apartment buildings provides multiple gable roof lines that break up the massing of the main roof of the structures. Awnings are also provided over the main entrances at the stairs as well as over the balconies at the rear of the units.
- (b) Transparency. At least fifteen percent (15%) of the area of each street-facing façade must be windows or entrance doors.
 - (i) Windows and/or doors (not including garage doors) utilizing clear glass and entry doors of any material may be used to meet this standard.
 - (ii) Roof area shall not count toward total street-facing façade area but wall area above wall headers (e.g., gable ends and dormers) shall count.
 - (iii) Entry doors used to meet this standard must face the street or be at an angle of no greater than 45 degrees from the street.
 - (iv) Half of the total window area in the door(s) of an attached garage counts toward the transparency standard. All of the window area in the street-facing wall(s) of an attached garage count toward meeting this standard.

Applicant Response: Considering this development is off of Oak Street by nearly 300 feet and only 1/3 of the development faces the street (300' away) this standard does not really apply. However, each building end has three distinct windows on the façade.

- (c) Main Entrance. At least one main entrance must meet both of the following standards:
 - (i) Be no further than eight feet behind the longest street-facing wall of the building.
 - (ii) Face the street, be at an angle of up to 45 degrees from the street, or open onto a porch. If the entrance opens up onto a porch, the porch must meet all of these additional standards:
 - (A) Be at least 25 square feet in area with a minimum four-foot depth.
 - (B) Have at least one porch entry facing the street.
 - (C) Have a roof that is no more than 12 feet above the floor of the porch.
 - (D) Have a roof that covers at least 30% of the porch area.

Applicant Response: Considering this development is off of Oak Street by nearly 300 feet and only 1/3 of the development faces the street (300' away) this standard does not really apply.

(d) Detailed Design. All buildings containing dwellings shall include at least five of the following features on any street-facing façade. See MDC Figures 18.30.190(4) and 18.30.190(5) for illustration of this standard.

Figure 18.30.190(4). Detailed Design and Building Articulation, One to Four Units

- (i) Covered porch at least five feet deep, as measured horizontally from the face of the main building façade to the edge of the deck, and at least five feet wide.
- (ii) Recessed entry area at least two feet deep, as measured horizontally from the face of the main building façade, and at least five feet wide.
- (iii) Offset on the building face of at least 16 inches from one exterior wall surface to the other.
- (iv) Dormer that is at least four feet wide and integrated into the roof form.
- (v) Roof eaves with a minimum projection of 12 inches from the intersection of the roof and the exterior walls.

- (vi) Roof line offsets of at least two feet from the top surface of one roof to the top surface of the other.
- (vii) Tile or wood shingle roofs.
- (viii) Horizontal lap siding between three to seven inches wide (the visible portion once installed). The siding material may be wood, fiber-cement, or vinyl.
- (ix) Brick, cedar shingles, stucco, or other similar decorative materials covering at least thirty percent (30%) of the street-facing façade.
- (x) Gable roof, hip roof, or gambrel roof design.
- (xi) Window trim around all windows at least three inches wide and five-eighths (5/8) inch deep.
- (xii) Window recesses, in all windows, of at least three inches as measured horizontally from the face of the building façade.
- (xiii) Balcony that is at least three feet deep, five feet wide, and accessible from an interior room. For townhouses, a balcony must be at least two feet deep and four feet wide.
- (xiv) One roof pitch of at least 500 square feet in area that is sloped to face the southern sky and has its eave line oriented within 30 degrees of the true north/south axis.
- (xv) Bay window at least two feet deep and five feet long. For townhouses, bay windows must be at least two feet deep by four feet wide.
- (xvi) Balconies and bay windows for townhouses may encroach into the required setback area.

Applicant Response: The building design meets the following standards (8) total: (ii), (iii), (iv), (v), (viii), (x), (xi) and (xiii).

(e) Transitional Space. Ground floor dwellings which have their entry access from the street or a shared open space (e.g., a common courtyard) must include an area of transition behind the right-of-way (or tract or easement). The standards below apply when the private dwelling entry access door is within 10 feet of the street-facing property line, within the front yard setback, or within 10 feet of a shared open space common tract. Mixed-use residential buildings are exempt from this standard. The transitional space between the public realm and the entry door may be either vertical or horizontal, as described below. A lobby counts as transitional space.

- (i) A vertical transition must be an uncovered flight of stairs that leads to the front door or front porch of the dwelling. The stairs must rise at least three feet, and not more than six feet, from grade. The flight of stairs may encroach into the required front yard, and the bottom step must be at least four feet from the front lot line.
- (ii) A horizontal transition shall be a covered porch with a depth of at least six feet. The porch may encroach into the required front yard, but it must be at least four feet from the front lot line.

Applicant Response: This standard does not apply.

- (f) Common Area.
 - (i) Except in C-2 or C-3 zone, townhouse projects with eight units or more (or greater than 1.5 gross acres) and all apartments must provide a common area that allows for passive and active recreation that meets the following standards:
 - (A) The common area must be no less than 200 square feet per dwelling in the development.
 - (B) There must be a lawn area with outdoor seating on the common area that will allow residents and their guests to reasonably gather and recreate. Landscaped portions of the common area may be applied towards satisfaction of the open space requirement for a master planned development.
 - (C) In addition to any other requirement, at least one recreational amenity must be provided for any development with twenty-five (25) or more dwellings, and two recreational amenities will be provided for any development with fifty (50) or more dwellings. Recreational amenities include swimming pools, playgrounds, sport courts, covered seating area, outdoor cooking facilities, and other amenities acceptable to the decision maker. Recreational facilities may be located on common area, but at least fifty percent (50%) of the common area must remain landscaped.
 - (ii) In the C-2 and C-3 zones, all residential uses other than cottage cluster developments must provide 50 square feet per dwelling unit for passive use, such as patios (ground level or rooftop), decks, balconies, etc. The square footage may be any combination of common area or private space for individual units.
 - (iii) Cottage clusters must provide the common courtyard required under MDC <u>18.30.192</u> regardless of zone.

Applicant Response: The project includes an apartment development, so this standard applies. The total required common area is 200 sf per unit and there are 60 units. Therefore, the minimum common area required is 12,000 sf.

There are active and passive areas throughout the development that are intended to serve different purposes and work with the natural topography of the land.

Patio Area = 1,772 sf Paver patio with tables, chairs, pedestal grills and shade trees.

Dog Park and Gravel Path = 10,958 sf Benches, trees, and lawn are proposed in the dog park. There is a central lawn and mulch walking area around the perimeter. People are not required to have a dog to use this area. The adjacent meandering gravel path is approximately 200 feet long and will have trees, including red oak, and grasses planted adjacent to it. The sloped area adjacent to the property line south of the gravel path is to remain native and is not included in this square footage.

Total common area = 12,730 sf

- (g) Pedestrian Circulation.
 - (i) An accessible pedestrian path must be provided that connects the main entrance of each dwelling to the following, as applicable:
 - (A) The common courtyard;
 - (B) Shared parking areas;
 - (C) Community buildings; and
 - (D) Sidewalks in public rights-of-way abutting the site or rights-of-way if there are no sidewalks.
 - (ii) The pedestrian path must be hard-surfaced, ADA compliant, and a minimum of five feet wide.

Applicant Response: An accessible pedestrian path is proposed to link buildings with parking, NE Oak Street, the plaza and dog park areas. See planning drawings for details.

- (h) Off-Street Parking.
 - (i) Development involving dwellings must provide the applicable amount of off-street parking required under MDC <u>18.25.050</u>.

- (ii) Driveways for any development involving dwellings must be hard surfaced (i.e. asphalt, concrete, pavers, turfstone pavers, or other material acceptable to Community Development Director) and otherwise compliant with design and construction standards.
- (iii) If a development involving dwellings features four or more parking stalls outside of garages, such external parking stalls shall be arranged in clusters, subject to the following standards:
 - (A) Parking clusters shall not exceed eight contiguous spaces.
 - (B) Parking clusters must be separated from other clusters by at least four feet of landscaping.
 - (C) All parking stalls and vehicle maneuvering areas must be hard surfaced.
- (iv) Except for driveways (and permitted parking on driveways), off-street parking spaces and vehicle maneuvering areas must not be located:
 - (A) Within 10 feet from any street-facing property line, except alley property lines.
 - (B) Between a street property line and the front façade of any building. This standard does not apply to alleys.
 - (C) Off-street parking spaces must not be located within five feet of any other property line, except alley property lines. Driveways and drive aisles are permitted within five feet of other property lines.
- (v) Landscaping, fencing, or walls that are at least three feet tall must separate and screen clustered parking areas and parking structures from common courtyards and public streets.

Applicant Response: Off-street parking is addressed in Section 18.25.050 of this narrative.

- (i) Privacy and Screening.
 - (i) Mechanical, communication equipment, outdoor garbage, and recycling areas must be screened so they are not visible from streets and common open spaces.
 - (ii) Utilities such as transformers, heating and cooling, power meters, and other utility equipment must not be located within five feet of a front entrance of a dwelling and must be screened with sight-obscuring materials.

(iii) All fences must be no more than six feet high. Chain-link fences are prohibited.

Applicant Response: The privacy and screening standards are met as follows:

- (i): Garage areas are designed with an enclosed structure to screen dumpsters and recycling bins.
- (ii): Transformers and electrical meters will be screened accordingly
- (iii): Fences are 6' cedar wood fencing around the perimeter.
- (j) Storage.
 - (i) All dwellings except for dwellings within mixed-used buildings and apartments must provide a minimum of 24 square feet of storage per each unit. Storage must be individually assigned to each dwelling unit and located in garages, exterior accessible closets or attached storage units, or detached storage units within 200 feet from each unit.
 - (ii) Dwellings within mixed-used buildings and apartments may either comply with subsection (4)(j)(i) of this section, provide 24 square feet of storage within each dwelling unit in closets other than bedroom closets, or some combination of the foregoing two options that amounts to 24 square feet of storage in total.
 - (iii) Only storage areas with six feet or more of vertical clearance shall count toward the minimum storage requirements.
 - (iv) Only garage space in excess of 150 square feet may be applied towards storage requirements.

Applicant Response: Storage units are provided in each unit that is accessed off of the porch or balcony. No garages are proposed. Future tenant storage units may be proposed near the entrance of the property.

(k) Trash Enclosures. Any residential development of three or more dwelling units (including any townhome or cluster development of three or more dwelling units) must provide an enclosure for storage of trash and recycling bins or dumpsters. The trash enclosure may either be at a centralized location or incorporated into the design of each dwelling unit. Trash enclosures must use the same color and materials as the dwelling units on the site. Trash collection bins or carts must be approved by the collection company. The trash enclosures and service areas are subject to the same setback standards from all public or private streets as the dwellings on the site. [Ord. 968 § 2.5 (Exh. E), 2022; Ord. 945 § 2 (Exh. B), 2020.]

(...)

Applicant Response: The trash enclosure is centrally located near Building 3 and will be constructed with the same materials and colors as the proposed apartment buildings. See architectural plans for trash enclosure and building material details.

Chapter 18.35: SIGNS

SECTION 18.35.010 Basic provisions.

- (1) Sign Erection, Repair, Etc. It is unlawful for any person to erect, repair, alter, relocate or maintain within the City any sign or other graphic except as provided in this Development Code.
- (2) Sign Conformance. All signs must be erected, altered, and maintained in conformance with this Development Code, the Uniform Building Code, and all other applicable state and federal laws. No sign shall stand on, protrude onto, or be anchored in rights-of-way or other public property without the written authorization of the public entity responsible for such property. [Ord. 933 § 7.1, 2019.]

Applicant Response: There are no signs proposed. This criteria does not apply.

SECTION 18.35.020 Prohibited signs.

Except for nonconforming signs, the following signs are unlawful and are declared nuisances:

- (1) Abandoned signs.
- (2) Video signs or other signs that display a moving image other than scrolling/flashing/changing text or numbers.
- (3) Electronic signs that flash, change colors, display a moving/changing image (including scrolling/flashing/changing text or numbers), or would otherwise pose a distraction to motorists unless authorized to be located on public property.
- (4) Any sign constructed, maintained, or altered in a manner without a permit or otherwise in violation of this Development Code.
- (5) Any sign constructed or maintained which, by reason of its size, location, movement, coloring, or manner of illumination may be confused with or construed as a traffic control device/signage or which hides from view any traffic control device/signage.
- (6) Any sign constructed in such a manner or at such a location that it will obstruct access to any fire escape or other means of ingress or egress from a building or an exit corridor, exit hallway, or exit doorway. No sign or supporting structure shall cover, wholly or partially, any window or doorway in any manner that it will substantially limit access to the building in case of fire or other emergency.

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- (7) Any sign located in a manner that could impede traffic on any street, alley, sidewalk, bikeway, or other pedestrian or vehicular travel way.
- (8) Any sign equipped with moving, rotating, or otherwise animated parts.
- (9) Any sign that is wholly or partially illuminated by a flashing or intermittent light, lights, lamps, bulbs, or tubes. Rotary beacon lights, zip lights, strobe lights, or similar devices shall not be erected or maintained, or attached to or incorporated in any sign.
- (10) Any sign located on private property within the vision clearance area.
- (11) Any sign attached to a tree, plant, or utility pole, except as otherwise allowed or required by applicable law.
- (12) Any sign within or over any public right-of-way (including banners spanning a public right-of-way) or located on private property less than two feet from any area subject to vehicular travel, except for signs, whether permanent or temporary, specifically allowed within the public right-of-way with the approval of the controlling jurisdiction.
- (13) Off-premises signs and signs not authorized within a right-of-way by the controlling jurisdiction.
- (14) Roof signs.
- (15) Any other sign that is not allowed under this Development Code that presents a threat to public health, safety, or welfare, or is otherwise unlawful. [Ord. 933 § 7.2, 2019.]

SECTION 18.35.030 Signs in residential zones.

- (1) Residential properties are limited to two residential signs per property.
- (2) Notwithstanding subsection (1) of this section, nonresidential uses authorized by the Development Code and residential structures comprised of five or more independent dwelling units may erect additional signs as follows:
 - (a) One or more wall-mounted signs not exceeding 100 square feet. Signs authorized under this provision must be erected as a flush-mounted wall sign as defined in this Development Code.
 - (b) One freestanding sign not exceeding 100 square feet in size.
 - (c) The total area for all signage shall be limited to 150 square feet.

- (d) Signs shall not be back-lighted or electronic. Front-light illumination is authorized where it does not project onto adjoining properties and is otherwise compliant with the outdoor lighting standards.
- (3) Property designated as common property on a plat or other deed restriction is deemed to be an authorized nonresidential use for purposes of this section.
- (4) Notwithstanding subsection (2) of this section, only residential signs may be used to advertise home occupations, as that term is defined in the Development Code. [Ord. 933 § 7.3, 2019.]

Applicant Response: There are no signs proposed with this application. This criteria does not apply. Any signs proposed in the future will be subject to a separate sign permit review.

SECTION 18.35.040 Signs in nonresidential zones.

Signs in nonresidential zones shall meet the following standards:

- (1) The total area of all signs on the premises may not exceed 300 square feet. Unless otherwise prohibited by this section, the maximum area shall be 150 square feet for any individual sign.
- (2) Freestanding signs in all nonresidential zones are subject to the following restrictions:

Table 18.35.040-1. Freestanding Signs in Nonresidential Zones

FREESTANDING SIGNS							
ZONE	TYPE ALLOWED	NUMBER ALLOWED	MAXIMUM AREA	MAXIMUM HEIGHT			
C-1	Pole or Monument	1 *	150 sq. ft.	20 ft.			
C-2	Monument	1 *	32 sq. ft.	8 ft.			
C-3	Pole or Monument	1 *	40 sq. ft.	20 ft.			
NC	Pole or Monument	1 *	32 sq. ft.	20 ft.			
Industrial	Pole or Monument	1 *	150 sq. ft.	35 ft.			

^{*} One freestanding sign shall be allowed per property except as allowed by subsections (3) and (4) of this section.

- (3) For through lots (properties that have frontage on opposite sides of the same block), two freestanding signs are permitted. The freestanding signs must be oriented toward opposite frontages.
- (4) A business complex under two acres in gross area, regardless of the number of individual properties comprising the business complex, shall only be permitted the amount of signage permitted for a single property. A business complex over two acres in gross area shall be permitted the amount of signage permitted for two properties, which may be distributed throughout the business complex regardless of internal property lines. These limitations apply regardless of the number of businesses, buildings, or properties that comprise the business complex.
- (5) Each building on a property shall be entitled to two square feet of flush-mounted or wall sign area per lineal foot of the building's width on the dominant facade, with a maximum of 150 square feet of signs or six percent (6%) of the linear measurement of the building's dominant facade, whichever is greater. This limitation applies regardless of the number of businesses that may occupy the building. [Ord. 933 § 7.4, 2019.]

Applicant Response: There are no signs proposed and the property is zone residential. This criteria does not apply.

SECTION 18.35.050 Projecting signs.

Unless otherwise permitted by this Development Code or by the Public Works Director, signs shall not encroach onto:

- (1) Adjoining properties;
- (2) A public right-of-way; or
- (3) Any vision clearance area. [Ord. 933 § 7.5, 2019.]

Applicant Response: There are no signs proposed. This criteria does not apply.

SECTION 18.35.060 Directional signs.

Directional signs designed to be read by a person on the premises on which the sign is located and used to identify buildings/businesses/amenities or direct persons on the premises are limited to four square feet in area and may be no more than four feet high if freestanding. If the sign is on the wall of a building, the directional sign shall be limited to four square feet in area and located no more than eight feet high. [Ord. 933 § 7.6, 2019.]

SECTION 18.35.070 Sign location.

Except for billboards, signs may not extend above the roofline, eaves, or parapet wall of the building to which they are attached, or above the tallest building on the premises (or closest building if the property is vacant) if the sign is freestanding. [Ord. 933 § 7.7, 2019.]

SECTION 18.35.080 Billboards.

Billboards are allowed with certain limitations in specified nonresidential zones but are prohibited in all residential zones. Billboards shall also be subject to the following regulations:

- (1) Limitation on the Total Number of Billboards. The total number of billboards located within the City limits and urban growth boundary shall be limited to eighteen (18). Signs lost or removed for any reason shall not be replaced until the total number of billboards in the City limits and urban growth boundary is reduced to fourteen (14), which shall then become the maximum number of billboards permitted thereafter.
- (2) Replacement of Billboards. When the total number of billboards within the City limits and urban growth boundary has been reduced in number to a total of fourteen (14), in accordance with subsection (1) of this section, billboards may be replaced upon application by any person or entity possessing an appropriate State of Oregon permit, subject at all times to the maximum fourteen (14) sign number limitation.
 - (a) No person or entity shall file an application for a new or replacement billboard without proof of possession of a valid State of Oregon permit allowing placement of a billboard within the designated City limits and urban growth boundary. New or replacement billboards shall be permitted only as provided in subsection (3) of this section.
- (3) Maximum Size Limit for Replacement Billboard. The maximum size of each replacement billboard sign, noted in subsection (2) of this section, shall be 250 square feet per side.
- (4) Location of Billboards.
 - (a) No billboards shall be permitted on 4th or 5th Streets between S.E. J Street and N.E. Cedar Street.
 - (b) Only one billboard is permitted per property.
 - (c) No billboard shall be located within 400 feet of another billboard.
- (5) Height of Billboards. No billboard shall exceed 35 feet in height.

(6) Features. Billboards may not feature video screens, reader boards, or other components that flash, change colors, display movement, or would otherwise pose a distraction to motorists. [Ord. 933 § 7.8, 2019.]

Applicant Response: There are no billboards proposed. This criteria does not apply.

SECTION 18.35.090 Temporary signs.

- (1) General Requirements. Temporary signs shall not be restricted by content and shall not affect the amount or type of signage otherwise allowed by this Development Code. Examples of temporary signs include, but are not limited to, nonpermanent signs usually and customarily used to advertise real estate sales, political or ideological positions, garage sales, construction, or events. Temporary signs may be erected and maintained in the City only in compliance with the following specific provisions:
 - (a) No temporary sign shall be internally illuminated or be illuminated by an external light source primarily intended for the illumination of the temporary sign without a permit.
 - (b) Temporary signs may not be reflective, electronic, or contain any moving or flashing parts.
 - (c) A temporary sign shall be attached to the site or constructed in a manner that both prevents the sign from being easily removed by unauthorized persons or blown from its location and allows for the easy removal of the sign by authorized persons.
 - (d) Except as provided in this Development Code, temporary signs shall not be attached to trees, shrubbery, utility poles, or traffic control signs or devices.
 - (e) No temporary sign shall be erected or maintained which, by reason of its size, location, or construction constitutes a hazard to the public.
 - (f) No temporary signs shall be allowed in the public right-of-way or on public property except as provided below. The following temporary signs shall be permitted in the right-of-way without issuance of a permit and shall not affect the amount or type of signage otherwise allowed by this Development Code. No temporary sign permitted under this subsection shall interrupt the normal flow of vehicle, pedestrian, or bicycle traffic, shall provide a minimum of five feet of clear passage for pedestrians on a sidewalk where a sidewalk exists, and shall not inhibit the use of parking facilities. No temporary sign permitted under this subsection shall extend into a vision clearance area. Temporary signs allowed under this subsection include:
 - (i) Signs owned or erected by the public body that owns or manages the right-of-way or public property;

- (ii) Sidewalk signs subject to the following limitations:
 - (A) Sidewalk signs shall be displayed only during the business hours of the responsible business.
 - (B) Sidewalk signs shall occupy no more than four square feet of right-of-way and shall be no taller than four feet.
 - (C) Sidewalk signs placed anywhere other than directly adjacent to the business shall be placed only with the written consent of the property owner of the adjacent property.
 - (D) No more than one sidewalk sign shall be permitted per business on a particular property except that one additional sidewalk sign shall be permitted per property for each 200 feet of street frontage. Notwithstanding the foregoing, in no event may a property be associated with more than three sidewalk signs.
- (g) Substantially similar temporary signs and those advertising the same event, which are erected sequentially, will be considered the same temporary sign for purposes of applicable temporal limitations.
- (h) Temporary signs shall be removed within seven days after the culmination of the event or purpose for which the temporary sign was erected, regardless of any permitted time then remaining.
- (2) Temporary Signs in Residential Zones. Temporary signs in residential zones shall be restricted as follows:
 - (a) Temporary signs not exceeding six square feet in area or four feet in height shall be permitted for a period of ninety (90) days.
 - (b) Temporary signs exceeding six square feet in area and/or four feet in height, but not exceeding 12 square feet and/or six feet in height shall be permitted for a period of thirty (30) days. No more than one such sign shall be permitted per property.
 - (c) The maximum square footage of temporary signs on any particular residential property is 25 square feet.
- (3) Temporary Signs in Nonresidential Zones. Temporary signs in nonresidential zones shall be restricted as follows:
 - (a) Temporary signs not exceeding 20 square feet in area or six feet in height shall be permitted for a period of one hundred twenty (120) days.

- (b) Temporary signs exceeding 20 square feet in area and/or six feet in height, but not exceeding 32 square feet and/or 10 feet in height, shall be permitted for a period of sixty (60) days.
- (c) The maximum square footage of temporary signs on any particular nonresidential property is 250 square feet per acre with a minimum of 50 square feet and maximum of 500 square feet. [Ord. 968 § 2.6 (Exh. F), 2022; Ord. 933 § 7.9, 2019.]

Applicant Response: The applicant understands the restrictions and requirements pertaining to temporary signs.

SECTION 18.35.100 Exemptions.

The following signs are exempt from the permitting requirements of this Development Code. All signs, even those exempt from permitting, must comply with sign dimensional, location, placement, maintenance, and all other applicable requirements.

- (1) Traffic or pedestrian control signs.
- (2) Signs erected or maintained by public bodies.
- (3) Flags mounted on a pole in the ground or on a building are exempt, but are subject to Development Code height regulations and shall be located and constructed so that, if the pole should collapse, its reclining length would be contained on the property on which it is installed.
- (4) Signs placed in the public right-of-way by the public body responsible for administering the right-of-way or by a public body providing transit services within the right-of-way.
- (5) Plaques, tablets, or inscriptions on buildings that do not exceed four square feet in area.
- (6) Signs constructed to identify emergency services such as fire, police, or hospital facilities.
- (7) Temporary signs that comply with the provisions of MDC 18.35.090.
- (8) Residential signs.
- (9) Signs altered or erected pursuant to MDC <u>18.35.120(1)(c)</u>. [Ord. 933 § 7.10, 2019.]

SECTION 18.35.110 Sign permits.

(1) Permit Applications. Unless exempt under MDC <u>18.35.100</u>, a permit issued by the Community Development Director is required to erect or alter any sign within the City limits. Applications for a sign permit shall be made in writing upon forms furnished by the City and

subject to applicable fees. Such applications shall include a scale drawing of the sign, including dimensions, height, and materials, and show its relationship to the ground or to any building or structure to which the sign is proposed to be installed or affixed. When appropriate, a plot plan drawn to scale shall be submitted that indicates the location of proposed signage relative to streets and property lines.

Prior to the issuance of a sign permit, the Building Official may review the construction aspects of the proposed sign and a building permit may be required. The Building Official or Community Development Director may require other pertinent information where, in their opinion, such information is necessary to determine compliance with the provisions of this Development Code.

- (2) Issuance of Permit. The Community Development Director shall approve an application and issue a sign permit unless the sign fails to meet the standards or is otherwise in violation of the provisions of this Development Code. Sign permits mistakenly issued in violation of this Development Code are void.
- (3) Permit Revocation. The Community Development Director may revoke a sign permit if there was a material omission or misleading statement of fact in the application for the permit.
- (4) Permit Time Restrictions. A sign permit shall be null and void if all work necessary to erect the sign has not been completed within six months of the date of issuance of the permit. The Community Development Director may authorize a single extension for up to an additional three months if the applicant demonstrates significant progress or that the delay was the result of circumstances outside of the applicant's control. Otherwise, the applicant must apply for and obtain a new approval to erect the subject sign.
- (5) Temporary Sign Permits. The Community Development Director may grant temporary permits for nonexempt temporary signs for a period of no more than thirty (30) days if the Community Development Director determines the sign will not present a risk to health, safety, or welfare and does not exceed applicable regulations for a comparable permanent sign. The Community Development Director may condition a temporary sign permit by any means necessary to achieve the objectives of this Development Code. Applicants shall apply for a temporary sign permit on the forms prescribed by the Community Development Director. [Ord. 933 § 7.11, 2019.]

SECTION 18.35.120 Sign maintenance and enforcement.

- (1) Existing Sign Alteration or Replacement.
 - (a) Nonconforming signs must not be altered or replaced unless the sign is made to conform to the provisions of this Development Code, or otherwise allowed under subsection (3) of this section, Sign Maintenance Requirements.

- (b) Premises with a nonconforming sign shall not be eligible for any additional signs until the existing sign is made to conform to the requirements of this Development Code.
- (c) Pole signs located in the Downtown Commercial (C-2) Zone are permitted to change the business name and logo on existing pole signs without application for a new sign permit so long as the use of a building does not change (e.g., retail to retail). A change in use of a building requires all signage to comply with all requirements of this Development Code. A change of use shall be determined by the difference in the minimum number of required off-street parking spaces between the previous and proposed uses as required under MDC Table 18.25.050-1. If there is a difference in the minimum number of required off-street parking spaces, it shall constitute a change of use only for the purposes of the sign maintenance requirements of this Development Code under subsection (3) of this section.
- (d) For signs subject to permitting requirements, changes to interchangeable panels or other alterations to the face of a sign shall also be subject to the permitting requirements in MDC <u>18.35.110</u>.
- (2) Damaged Signs. Any sign that is damaged by over fifty-one percent (51%) of the replacement cost of the sign shall not be eligible for repair, but shall be immediately removed. Any replacement signs shall conform to the standards of this Development Code and be subject to the same permitting requirements as if the sign were new.
- (3) Sign Maintenance Requirements.
 - (a) All signs within the City limits shall be maintained in a secure and safe manner. Maintenance includes minor repairs necessary to maintain the sign in its original state.
 - (b) Temporary and freestanding signs shall be kept clear of rubbish and weeds. All other signs shall be securely mounted to a structure. If any sign is found not to be securely mounted, or if it is a hazard, the owner shall be notified and shall be instructed to secure the sign. An owner shall secure the sign within ten (10) days of notice. [Ord. 933 § 7.12, 2019.]

SECTION 18.35.130 Variance.

An applicant for a sign permit or an applicant owning or leasing a sign that is not in compliance with the provisions of this Development Code may apply for a variance. Applications for a minor or major variance shall be processed in accordance with the procedures and criteria for a variance set out in MDC <u>18.50.040</u>. [Ord. 933 § 7.13, 2019.]

Chapter 18.40: ZONING REVIEW, SITE PLAN REVIEW, AND DESIGN REVIEW

SECTION 18.40.010 Zoning review.

Purpose. To determine compliance with this Development Code for development not subject to site plan review.

- (1) Application Requirements. Prior to the construction, alteration, or change of use for development not subject to site plan review, the City Community Development Department may require a zoning review application, which will be processed as a Type I Application.
- (2) Approval Criteria.
 - (a) The proposed land use is a permitted or conditionally permitted use in the zoning district.
 - (b) If conditionally permitted, the applicant has obtained conditional use approval.
 - (c) The setbacks, lot area, landscaping, lot dimensions, density, lot coverage, building height, Design Review Standards, and other applicable standards of the underlying zoning district are met.
 - (d) The property has lawful access.
 - (e) The minimum required number of parking spaces and vehicle circulation areas shall be paved and striped.
- (3) Approval. Approval of a zoning review application shall be void after one year unless a building permit has been obtained and substantial construction has taken place. However, the Community Development Director may extend authorization for an additional period not to exceed one year upon request by the applicant or property owner. [Ord. 933 § 8.1, 2019.]

Applicant Response: The applicant understands the requirements and criteria associated with zoning review.

SECTION 18.40.020 Site plan review.

Purpose. To determine compliance with this Development Code for development not subject to zoning review.

- (1) Applicability. Site plan review is required for the following:
 - (a) All new or modified conditional uses.
 - (b) All new nonresidential development.
 - (c) Apartments.

- (d) All new or modified outdoor uses of 3,000 square feet or greater.
- (e) Any expansion or modification of an existing nonresidential or apartment or residential mixed-use development in excess of 3,000 square feet or that requires a new or modified point of access.
- (f) All townhome developments.
- (g) Cottage cluster developments.

Applicant Response: The project includes apartments. This criteria is applicable.

- (2) Site Plan Committee.
 - (a) The Site Plan Committee shall consist of:
 - (i) Community Development Director;
 - (ii) Public Works Director;
 - (iii) Fire Marshal; and
 - (iv) Building Official.

These individuals shall carry out the duties as set forth in this section.

(b) The Site Plan Committee shall review the proposal subject to site plan review of the Development Code. Once the Site Plan Committee members have submitted their comments to the Community Development Director, the Community Development Director may approve a proposal with conditions if minimal modification will permit the proposal to comply with requirements of this Development Code. The Community Development Director may refer any site plan application to the Planning Commission for determination.

Applicant Response: The applicant understands that the Site Plan will be reviewed by various departments and officials.

- (3) Procedures.
 - (a) Before any building permit is issued for any development subject to a site plan review, a site plan application shall be submitted for determination.

- (b) Prior to filing a site plan application, the applicant is encouraged to confer with the Community Development Department concerning the requirements of a formal application.
- (c) The site plan application shall be filed on a form provided by the Community Development Department.
- (d) The site plan shall be drawn to scale and shall indicate the following:
 - (i) Location, size, and height of all existing or proposed structures.
 - (ii) Location, size, and dimension of existing and proposed setbacks, and all spaces between buildings.
 - (iii) Adjoining streets and rights-of-way.
 - (iv) Points of access and circulation patterns, loading and maneuvering spaces.
 - (v) Off-street parking; showing location of parking areas, number of parking spaces including accessible parking, and type of surface.
 - (vi) Sidewalks, patios, courtyards, and decks.
 - (vii) Storm drainage system, including, but not limited to, draining and grading plan, existing topography, and elevations.
 - (viii) Fences, screens, and retaining walls, including heights and materials.
 - (ix) Existing utilities (e.g., electric, gas, power lines).
 - (x) Exterior lighting (show location and general nature).
 - (xi) Sanitary sewer system or location of septic tank and drain field (if still using and not connected to City sewer), and the distance the lot is from the nearest sewer connection.
 - (xii) Water supply (showing size of main, water flow, and size of water line).
 - (xiii) Location of existing and, if any, proposed fire hydrants with size and flow data.
 - (xiv) Identify any existing or proposed easements.
 - (xv) Proposed public improvements.

- (xvi) Sign (if existing, location and size). Signs are subject to the provisions of Chapter 18.35 MDC.
- (xvii) Give intended type of occupancy for the structure (e.g., assembly, educational, manufacturing, processing, storage and type of contents).
- (xviii) List all existing or proposed conditions that could be hazardous to life and property from fire or explosion (e.g., storage of: liquefied petroleum gas, flammable or combustible liquids, explosives and blasting agents).
- (e) Within thirty (30) days, the Community Development Director shall deem the application complete or notify the applicant of the deficiencies in the application.

(...)

Applicant Response: The applicant understands the procedures and requirements associated with a Site Plan application.

- (5) Approval Criteria for Needed Housing.
 - (a) Approval of a site plan for needed housing shall be based on the following criteria:
 - (i) Allowed Use. The proposed land use is an allowed use in the zoning district.
 - (ii) Zoning Standards. The proposal complies or can comply with the applicable standards of the applicable zoning district(s) in which it is located.
 - (iii) Safety. The proposed development complies or can comply with applicable building and fire code standards.
 - (iv) Special Needs of the Disabled. The proposed development complies or can comply with the Americans with Disabilities Act and its implementing regulations.
 - (v) Public Improvements. The proposal demonstrates compliance with the Public Improvement Standards.
 - (vi) Public Facilities. All required public facilities have adequate capacity, as determined by the City, to serve the proposed use including, without limitation, the transportation, sewer, stormwater, and water systems.
 - (vii) Supplementary Provisions. All applicable provisions in Chapter <u>18.25</u> MDC are satisfied.

- (viii) Special Standards for Certain Uses. All applicable provisions in Chapter <u>18.30</u> MDC are satisfied.
- (ix) Master Plan Compliance. The proposal is in substantial conformance with any applicable approved master plan, master facilities plan, refinement plan, and/or special planned district.

Applicant Response: This is not a needed housing application. This criteria does not apply.

- (6) To ensure that a development proposal satisfies applicable criteria, and mitigates identified impacts, the City may impose conditions of approval including, but not limited to, the following:
 - (a) An increase in the required setback(s).
 - (b) Modifications to pedestrian and vehicular circulation patterns, parking provisions, the location and number of points of access to the site, sidewalks, and designs of parking areas.
 - (c) Additional off-street parking.
 - (d) Limitations on the size, location, and number of outdoor lights.
 - (e) Limitations on the number and location of curb cuts.
 - (f) Dedication of land for the creation or enlargement of streets where the existing street system will be impacted by or inadequate to handle the additional burden caused by the proposal.
 - (g) Dedication of land or an easement for the creation or extension of access corridors for pedestrian and bicycle travel.
 - (h) Improvements, including, but not limited to, paving, curbing, installation of traffic signals, construction of sidewalks, striping bike lanes, or other improvements to the street system which serves the subject property where the existing street system will be burdened by the applicant's proposal or the proposal would create health or safety issues if unmitigated.
 - (i) Improvement or enlargement of utilities serving the subject property where the existing utilities system will be burdened by the proposal. Improvements may include, but shall not be limited to, extension of utility facilities to serve the proposed use and installation of fire hydrants.
 - (j) Landscaping shall comply with the appropriate zoning district's landscape requirements within the Development Code.

- (k) Transit facility or an easement for bus pullout if on a mass transit route.
- (I) Location or orientation of buildings and entrances closer to the street to serve pedestrians, bicyclists, and/or mass transit use.
- (m) Any other limitations or conditions necessary to achieve the purpose of this Development Code.

Applicant Response: The applicant understands that the City will impose conditions of approval relating to the items above as part of the land use decision.

- (7) Review Process. The Community Development Director may (at his/her discretion) elevate the application to a Type III application and review process.
- (8) Appeal. The applicant or any interested person may appeal a decision of the Site Plan Committee to the City Council, in accordance with the procedures of MDC <u>18.80.240</u>.
- (9) Revisions. Revisions made by the applicant to an approved site plan shall be made pursuant to the procedures set forth in this section. Where required site plan approval has been granted, it shall be unlawful for any person to cause or permit the proposed construction, alteration, improvement, or use in any manner except in complete and strict compliance with the approved site plan.
- (10) Time Limit on Site Plan Approval. Authorization of site plan approval shall become void after one year unless a building permit has been obtained and remains valid and active. [Ord. 968 § 2.5 (Exh. E), 2022; Ord. 959 § 2.1 (Exh. B), 2021; Ord. 955 § 2.1 (Exh. B), 2021; Ord. 945 § 2 (Exh. B), 2020; Ord. 933 § 8.2, 2019.]

Applicant Response: The applicant understands the process for review, appeal and expiration of Site Plan Approval.

SECTION 18.40.030 Design review.

- (1) Purpose. The purpose of design review is to ensure that the public health, safety, and general welfare are protected, and the general interest of the public is served. The standards provide for originality, flexibility, and innovation in site planning and development in order to enhance the special characteristics that make Madras a unique place to live.
- (2) Applicability. Unless exempt, the provisions of this section shall apply to the following activities:
 - (a) All new nonresidential development.

- (b) All new apartment developments and mixed-use residential buildings that cannot meet or choose not to meet all applicable design standards in MDC 18.30.190.
- (c) All exterior modifications to existing buildings except detached single-family dwellings.
- (d) All new parking lots.
- (e) All outdoor storage and display areas.
- (f) Any expansion or modification of an existing nonresidential or apartment or residential mixed-use development in excess of 3,000 square feet or that requires a new or modified point of access that cannot meet or chooses not to meet all applicable design standards in MDC 18.30.190.
- (3) Exemptions. This Development Code section does not apply to the following activities:
 - (a) Maintenance of the exterior of an existing structure such as re-roofing or re-siding.
 - (b) Interior remodeling.
 - (c) Parking lot expansions not exceeding twenty-five percent (25%) of the gross square footage of the original lot with no new access.

Applicant Response: The proposal includes apartments. This criteria is applicable.

- (4) Review Process. The Community Development Director shall approve, approve with conditions, or deny an application based upon compliance with the site plan criteria and Design Review Standards. Approval shall be obtained from the review authority prior to the issuance of all building permits.
- (5) Application Requirements. All applicants shall attend a pre-application conference prior to filing a land use application that involves design review with the Community Development Department. After attending the pre-application conference, the applicant shall file an application for design review along with other applicable applications (site plan and/or conditional use) with the Community Development Department.

Applicant Response: The applicant understands the procedures and requirements associated with a Design Review application.

- (6) Standards for Approvals for Other Than Needed Housing.
 - (a) Natural Features. Buildings shall be sited to protect areas of special interest and significant natural features such as natural grade, trees, vegetation, and rock outcroppings. These resources are encouraged to be incorporated into the overall site plan and may be

calculated as part of the landscaping requirement. They are to be protected during construction.

- (b) Pedestrian Walkways.
 - (i) Walkways From the Sidewalk to Building Entrances. A continuous pedestrian walkway shall be provided from the primary frontage sidewalk for pedestrians to access building entrances. This internal walkway shall incorporate a mix of landscaping, benches, and drop-off bays for at least fifty percent (50%) of the length of the walkway. Walkways shall be connected to adjacent sites wherever practicable.
 - (ii) Walkways From Parking Areas to Building Entrances. Internal pedestrian walkways shall be developed for persons who need access to the building(s) from the parking areas. The walkways shall be located within the parking areas and shall be designed to provide access from the parking areas to the entrances of the building(s). The walkways shall be designed to separate people from moving vehicles as much as possible. These walkways shall have a minimum width of five feet with no car overhang or other obstruction. The walkways must also be designed for disabled access according to the Uniform Building Code. This may require the walkways to be widened or modified. The walkways shall be distinguished from the parking and driving areas by use of any of the following materials: special pavers, bricks, raised elevation, or scored concrete. Other materials may be used if they are appropriate to the overall design of the site and building and acceptable to the review authority.

Applicant Response: The proposal includes continuous pedestrian walkways from the buildings and parking areas to the site amenities and public right-of-way. See the planning drawings for details.

(c) Building and Sign Colors. Exterior colors and those used on signs shall be low reflectance, subtle, neutral and otherwise consistent with Ordinance 845*. The use of high intensity colors such as black, neon, metallic, or fluorescent for the facade and/or roof of the building is prohibited except as approved for building trim. Structures shall be painted or repainted as needed to maintain an attractive appearance.

Applicant Response: Building colors are of a neutral earth tone palette and will blend in with the natural surrounding environment. A neutral green base to each building corresponds to the local pine forest and the body color for the remainder of the buildings relates to the natural soil of the high plains of Central Oregon.

(d) New primary buildings shall have at least one principal building entrance oriented toward the primary front property line. Entrances for customers or members of the public should be clearly delineated. Canopies, porticos, arcades, arches, wing walls, and integral planters are highly encouraged.

Applicant Response: Residential buildings have two clearly delineated entrances that are proud of the main facade offering a sheltered entry from rain, snow and intense sun. The exterior entrance offsets also contain two sizable columns with stone pilaster bases.

(e) Mechanical equipment and service areas shall be screened with visual barriers from adjacent properties, public streets, parks, or other public areas. The architectural design of the building shall incorporate design features that screen and conceal all heating, ventilation, air conditioning units, trash enclosures, dumpsters, loading docks, and service yards.

Applicant Response: The mechanical systems for the residential units are electric PTAC units and are located at the rear walls of the buildings, and will be painted to match the adjacent exterior color of the building.

- (f) Exterior Building Design.
 - (i) Exterior walls of buildings that are greater than 50 feet in horizontal length shall be constructed using a combination of architectural features and a variety of building materials and landscaping near the walls. Walls that can be viewed from public streets shall be designed using architectural features and landscaping (abutting the building) for at least fifty percent (50%) of the wall length. Other walls shall incorporate architectural features and landscaping for at least thirty percent (30%) of the wall length.

Applicant Response: Each of the apartment buildings provides multiple gable roof lines that break up the massing of the main roof of the structures. Dormers are also provided over the main entrances at the stairs as well as the over the balconies at the rear of the units. To mitigate long, unbroken spans on the larger roof, a cross-gable has been added to break up the massing along the roof line.

(ii) Architectural features include, but are not limited to, the following: recesses, projections, wall insets, arcades, window display areas, awnings, balconies, window projections, landscape structures, or other features that complement the design intent of the structure and are acceptable to the review authority.

Applicant Response: The exterior wall designs of the structures takes on a mix of building materials and colors (lap siding, board/batt siding and shingle siding) to break up the long wall lengths and provide an enhanced character to the architecture. In addition, decorative brackets, offset eaves and windows are provided at the gable ends of each building to provide additional character.

(iii) A portion of the on-site landscaping shall abut the walls of the structure so that the vegetation combined with the architectural features significantly reduces the visual impact of the building mass as viewed from the street.

Applicant Response: Landscaping will be provided that includes fast growing pine species and several Maple varieties that grow quickly and will provide a burst of color during the autumn season.

(iv) The predominant building materials should be characteristic of Central Oregon such as brick, wood, native stone and tinted/textured concrete masonry units, and/or glass products.

Applicant Response: The exterior wall designs of the structures takes on a mix of building materials and colors (Hardi lap siding, board/batt siding and shingle siding) and will provide an enhanced character to the architecture. The exterior entrances also contain two sizable columns with native stone pilaster bases.

(v) Other materials such as smooth-faced concrete block, undecorated tilt-up concrete panels, or prefabricated steel panels should only be used as accents and not dominate the building exterior of the structure. Metal roofs may be allowed if compatible with the overall architectural design of the building.

Applicant Response: The Roofing material will composite shingles that will have neutral warm gray color to blend in with the existing natural color palette of the environment.

(vi) Roofs shall be designed to reduce the apparent exterior mass of a building, add visual interest, and be appropriate to the architectural style of the building. Variations within one architectural style are highly encouraged. Visible rooflines and roofs that project out over the exterior wall of a building enough to cast a shadow on the ground are highly encouraged. Architectural methods shall be used to conceal flat rooftops. Overhanging eaves, sloped roofs and multiple roof elements are highly encouraged.

Applicant Response: Each building's roof will provide Gables, dormers over balconies and entry. As well as a cross-gable roofline at the center of each residential building.

(vii) Community amenities, such as patio/seating areas, water features, art work or sculpture, clock towers, pedestrian plazas with park benches or other features located adjacent to the primary entrance to the building(s) are highly encouraged and may be calculated as part of the landscaping requirement.

Applicant Response: There are two common areas with community amenities located at or adjacent to the apartment site entrance. A fenced dog park with benches is located on the east side of the project entrance and a patio with barbecues and tables is located on the west side of the project entrance. See planning drawings for details.

(g) Architectural Features for Industrial Buildings.

(i) Exterior walls of buildings that can be viewed from a primary public street shall be constructed with at least three of the following architectural features: recesses, projections, wall insets, arcades, windows, window display areas, doors, awnings, balconies, window projections, landscape structures, or other features that complement the design intent of the structure.

Applicant Response: No industrial buildings are proposed. This criteria does not apply.

- (7) Standards for Approvals for Needed Housing.
 - (a) Pedestrian Walkways.
 - (i) Walkways From the Sidewalk to Building Entrances. A continuous pedestrian walkway shall be provided from the primary frontage sidewalk for pedestrians to access building entrances. This internal walkway shall incorporate a mix of landscaping, benches, and drop-off bays for at least fifty percent (50%) of the length of the walkway. Walkways shall be connected to adjacent sites wherever practicable.
 - (ii) Walkways From Parking Areas to Building Entrances. Internal pedestrian walkways shall be developed for persons who need access to the building(s) from the parking areas. The walkways shall be located within the parking areas and shall be designed to provide access from the parking areas to the entrances of the building(s). The walkways shall be designed to separate people from moving vehicles as much as possible. These walkways shall have a minimum width of five feet with no car overhang or other obstruction. The walkways must also be designed for disabled access according to the Uniform Building Code. This may require the walkways to be widened or modified. The walkways shall be distinguished from the parking and driving areas by use of any of the following materials: special pavers, bricks, raised elevation, or scored concrete. Other materials may be used if they are appropriate to the overall design of the site and building and acceptable to the review authority.
 - (b) Building and Sign Colors. Exterior colors and those used on signs shall be low reflectance, subtle, neutral and otherwise consistent with Ordinance 845*. The use of high intensity colors such as black, neon, metallic, or fluorescent for the facade and/or roof of the building is prohibited except as approved for building trim. Structures shall be painted or repainted as needed to maintain an attractive appearance.
 - (c) All buildings shall incorporate design features such as offsets, balconies, projections, window reveals, or similar elements to preclude large expanses of uninterrupted building surfaces, as shown in the figure below. Along the vertical face of a structure, such features shall occur at a minimum of every 40 feet, on each floor, and shall contain at least two of the following features:

- (i) Recess (e.g., deck, patio, courtyard, entrance or similar feature) that has a minimum depth of six feet;
- (ii) Extension (e.g., floor area, deck, patio, entrance, or similar feature) that projects a minimum of two feet and runs horizontally for a minimum length of four feet; and/or
- (iii) Offsets or breaks in roof elevation of two feet or greater in height.
- (d) All building elevations adjacent to a street right-of-way shall provide doors, porches, balconies, and/or windows. A minimum of forty percent (40%) of front (i.e., street-facing) elevations, and a minimum of thirty percent (30%) of side and rear building elevations, shall meet this standard. Percent of elevation is measured as the horizontal plane (lineal feet) containing doors, porches, balconies, terraces and/or windows. The standard applies to each full and partial building story.

Exceptions:

- (i) A multifamily building may have its entrance oriented to a side yard when a direct pedestrian walkway is provided between the building entrance and the street in accordance. In this case, at least one entrance shall be provided not more than 30 feet from the closest sidewalk or street.
- (ii) A multifamily building may be oriented to a common use courtyard.
- (e) Detailed Design. All buildings shall provide detailed design along all elevations which are visible from the street(s) adjacent to the property (i.e., front, rear and sides). There are two options for complying with this requirement:
 - (i) Menu Option. Detailed design shall be provided by using at least six of the following twelve (12) architectural features on all applicable elevations, as appropriate for the proposed building type and style (may vary features on rear/side/front elevations): dormers, gables, recessed entries, covered porch entries, cupolas, pillars or posts, eaves (minimum 12-inch projection), window trim (minimum four inches wide), bay windows, balconies, offsets in the building face or roof by a minimum of 18 inches, decorative patterns on the exterior finish using shingles, wainscoting, board and batt.
 - (ii) Detailed Design Option. Detailed design shall be provided by showing compliance with the following design criteria:
 - (A) The general size, shape, and scale of the structure(s) are architecturally compatible with the site and with the surrounding neighborhood, unless such compatibility with existing structures does not reflect the long-term purpose or intent of the underlying zoning of the subject site.

- (B) If the project includes a large structure or structures (greater than 20,000 square feet), the design shall incorporate changes in direction and divide large masses into varying heights and sizes by breaking up building sections, or by the use of such elements as variable planes, projections, bays, dormers, setbacks, canopies, awnings, parapets, changes in the roofline, materials, color, or textures.
- (C) Exterior finish on vertical surfaces shall be primarily of materials such as masonry/wood siding, shingles, or stucco. The use of sheet metal or plywood shall not exceed fifty percent (50%) of the wall area. No smooth-faced cinder block construction shall be permitted on front facades. Cinder block construction for side and rear facades shall be permitted by approval as part of this review process.
- (8) Exceptions to Design Standards. An exception to the Design Review Standards may be approved by the Madras Planning Commission. The Planning Commission shall conduct a quasi-judicial hearing in accordance with the provisions of Chapter 18.80 MDC. The Planning Commission's decision may be appealed to the City Council in accordance with MDC 18.80.240. [Ord. 968 § 2.5 (Exh. E), 2022; Ord. 959 § 2.1 (Exh. B), 2021; Ord. 955 § 2.1 (Exh. B), 2021; Ord. 945 § 2 (Exh. B), 2020; Ord. 933 § 8.3, 2019.]

Applicant Response: The application does not include needed housing. This criteria does not apply.

SECTION 18.40.040 Design review standards for buildings greater than 30,000 gross square feet (large-scale buildings).

- (1) Purpose. The purpose of these regulations is to mitigate potential impacts of large-scale buildings (those containing more than 30,000 gross square feet and infrastructure that supports such structures). The provisions set out below promote development that is compatible with, and does not detract from, the City's unique character, scale, and sense of place and encourage a mixture of uses and sizes of structures that facilitate a safe and comfortable pedestrian scale environment. Large-scale buildings and supporting infrastructure shall be kept in good condition and shall be the responsibility of the property owner or building owner. The standards in this section shall apply in addition to the standards of MDC 18.40.030. In case of a conflict, the more restrictive standards shall prevail.
- (2) Applicability. These standards apply in addition to any Design Review Standards for all structures greater than 30,000 square feet in any zone.
- (3) Size and Mass. No single structure greater than 150,000 gross square feet is permitted. Notwithstanding the foregoing, a structure may be larger than 150,000 gross square feet so long as no single separately rentable space within the structure exceeds 150,000 gross square feet.

- (4) Building Design. Large-scale buildings should have architectural features and patterns that provide visual interest at the scale of the pedestrian, reduce massive aesthetic effects, and reflect the local character. The following elements should be integral parts of the building fabric, and not superficially applied trim, graphics, or paint: color changes, material changes, texture changes, and relief features (such as offsets, projections, and reveals).
 - (a) Architectural Unity. All buildings on the same site shall be architecturally unified. "Architectural unity" means that buildings shall be related in architectural style, color scheme, and building materials.
 - (b) Exterior Materials. Predominant exterior building materials shall be of high quality material and in a color consistent with Ordinance 845. These include, without limitation: brick, exterior wood siding, rock, or stone or tinted and textured concrete masonry units. Facade colors shall be neutral or earth tone colors. Building trim and accent areas may feature brighter colors, including primary colors, but these colors may not comprise more than fifteen percent (15%) of any building facade. The use of high intensity, metallic, black, or fluorescent colors, including primary colors, is not allowed. Exterior building materials shall not include the following:
 - (i) Smooth-faced concrete block;
 - (ii) Smooth-faced tilt-up concrete panels; or
 - (iii) Pre-fabricated steel panels.
 - (c) Facades and Exterior Walls. The following standards, which apply to all building facades which are visible from adjoining public streets or properties, are intended to reduce the massive scale of large-scale buildings which, without application of these standards, would be incompatible with City's desired character.
 - (i) Facades greater than 150 feet in length, measured horizontally, shall incorporate wall plane projections or recesses having a depth of at least three percent (3%) of the length of the facade and extending at least twenty percent (20%) of the length of the facade. No uninterrupted length of any facade shall exceed 150 horizontal feet.
 - (d) Roofs. The following standards are intended to foster variations in roof lines to add interest to, and reduce the scale of, large-scale buildings. Roof features should complement the character of adjoining development. Roofs shall have no less than two of the following features:
 - (i) Parapets concealing flat roofs and rooftop equipment, such as HVAC units, from the public view. The average height of such parapets shall not exceed fifteen percent (15%) of the height of the supporting wall and such parapets shall not at any point exceed one-third (1/3) of the height of the supporting wall. Such parapets shall feature

three-dimensional (3D) cornice treatment and shall not be of a constant height for a distance of greater than 150 feet.

- (ii) Overhanging eaves, extending no less than three feet past the supporting walls, for no less than thirty percent (30%) of the building perimeter.
- (iii) Sloping roofs that do not exceed the average height of the supporting walls, with an average slope greater than or equal to one foot of vertical rise for every three feet of horizontal run and less than or equal to one foot of vertical rise for every one foot of horizontal run.
- (iv) Three or more roof slope planes.
- (e) Entryways. Entryway design elements and variations should give orientation and aesthetically pleasing character to the building. The following standards identify desirable entryway design features:
 - (i) Large-scale buildings shall feature multiple entrances that are separated by not more than 300 feet along any side of a building requiring customer entrances. Multiple building entrances reduce walking distances from cars, facilitate pedestrian and bicycle access from public sidewalks, and provide convenience where certain entrances offer access to individual stores, or identified departments of a store. Multiple entrances also mitigate the effect of the unbroken walls and neglected areas that often characterize building facades that face bordering land uses. Multiple entryways or architectural features shall be incorporated into the design in order to break up the apparent mass and scale of large-scale buildings. Entrances may be to tenant spaces other than the primary tenant. For structures:
 - (A) 50,000 square feet to 75,000 square feet, there shall be a clearly articulated public entrance on at least two sides of the structure. At least one such entrance shall be visible from a public street and connected to that street by a pedestrian sidewalk.
 - (B) 75,000 square feet and above, shall provide a significant pedestrian amenity such as outdoor seating areas, play areas for children, and public courtyards.
 - (ii) All sides of a large-scale building that directly faces an abutting public street shall feature at least one customer entrance. Where a large-scale building directly faces more than two abutting public streets, this requirement shall apply only to two sides of the building, those sides which are abutting the streets.
 - (iii) When structures are adjacent to a residential zone and separated from that zoning district by a public or private street, the large-scale building shall have at least one entryway facing that street.

	Each large-scale building on a site shall have clearly defined, highly visible omer entrances featuring no less than three of the following:
((A) Canopies or porticos;
((B) Overhangs;
((C) Recesses/projections;
((D) Arcades;
((E) Raised corniced parapets over the door;
((F) Peaked roof forms;
((G) Arches;
((H) Outdoor patios;
((I) Display windows;
·	(J) Architectural details, such as tile work and moldings which are integrated into the building structure and design; or
((K) Integral planters that incorporate landscaped areas and/or places for sitting.
compatible w	gn. All supporting or associated buildings and enclosures shall be designed to be rith a large-scale building. Compatibility will be measured in terms of design, form, als, and color.
to link str shall be in the build provide a	munity Spaces. Large-scale buildings shall provide outdoor spaces and amenities ructures with the remainder of the community. Passenger drop-off/pick-up points ntegrated with traffic patterns on the site. Special design features shall enhance ing's function as a center of community activity. Each large-scale building shall at least two of the following design features, which shall be constructed of a that match the large-scale building and are linked by sidewalks to the structure:
(i) P	Patio/seating area;
(ii) I	Pedestrian plaza with benches;
(iii)	Window shopping walkway:

- (iv) Outdoor playground area; or
- (v) Water feature or clock tower.
- (6) Landscaping. In addition to meeting the landscaping standards, all large-scale buildings shall provide the following landscaping, and it shall be the property owner's responsibility to ensure that the landscaping remains healthy and in good condition:
 - (a) A landscaped buffer of at least 20 feet in width shall be provided along all property lines abutting roadways, with breaks for approved access points. A minimum of a five-foot wide landscape buffer shall be planted along all other property lines. No parking is permitted within these required landscape areas.
 - (b) Landscaped areas shall be protected by raised curbs or fixed wheel stops approved by the Public Works Department. A variety of trees, shrubs, and flowers shall be incorporated into the landscaping.
- (7) Pedestrian Circulation. Pedestrian accessibility opens auto-oriented developments to nearby neighborhoods, thereby reducing traffic impacts and enabling the development to project a friendlier, more inviting image. This section sets forth standards for internal pedestrian circulation systems that will provide user-friendly pedestrian access as well as pedestrian safety, shelter, and convenience.
 - (a) Sidewalks no less than six feet in width shall be provided along the full length of the building, along any facade featuring a customer entrance, and along any facade abutting public parking areas. These sidewalks shall be located at least six feet from the front of the building to provide planting beds for foundation landscaping, except where features such as arcades or entryways are part of the facade.
 - (b) Weather protection features such as awnings or arcades shall extend at least 20 feet from all customer entrances.
- (8) Parking Orientation. In addition to the parking lot design standards, large-scale buildings shall comply with the additional regulations set forth in this subsection. Parking areas shall provide safe, convenient, and efficient access. They should be distributed around large-scale buildings in order to shorten the distance to other buildings and public sidewalks and to reduce the overall scale of the paved surface. When buildings are located closer to streets, pedestrian traffic is encouraged, and architectural details take on added importance. To achieve this, for any large-scale building, no more than twenty percent (20%) of the off-street parking areas for the entire property shall be located between the large-scale building(s) and an arterial street, unless other buildings located between the large-scale building and the arterial street extend along at least fifty percent (50%) of the frontage between the arterial and the large-scale building. [Ord. 933 § 8.4, 2019.]

Applicant Response: No buildings over 30,000 sf are proposed with this application. The standards of this section do not apply.

SECTION 18.40.050 Residential development processing guide.

The following table is intended as a summary of the processing procedures for various forms of residential development. Additional approvals (such as requirements for a master plan), or filing concurrent applications (such as a land division), may change the processing procedures reported in the summary table. In the event of any conflict between the summary table and any other provision of this code, the other provisions of this code will control.

Table 18.40.050.

Residential Type	Procedure Type	Zoning Review	Site Plan Review	Design Review
Single-Unit Dwellings	I	✓		
Accessory Dwellings	I	✓		
One to Four Units	I	✓		
Apartments	II		✓	✓
Townhomes	II		✓	
Cottage Clusters	II		✓	

[Ord. 968 § 2.6 (Exh. F), 2022.]

Applicant Response: The proposal includes and apartment development which is subject to Site Plan Review and Design Review.

Chapter 18.75: AMENDMENTS

SECTION 18.75.010 Purpose.

The purpose of this chapter is to provide standards and procedures for legislative and quasi-judicial amendments to this Development Code, the Comprehensive Plan and map, and the Zoning Map. These will be referred to as "map and text amendments." Map and text amendments may be necessary from time to time to reflect changing community conditions, needs and desires, to correct mistakes, or to address changes in the law. Map and text amendments may be proposed by the City Council, Planning Commission, the Community Development Director, or any other person. [Ord. 933 § 15.1, 2019.]

(...)

Applicant Response: This section is a Purpose Statement and it does not contain any measureable approval criteria or development standards.

SECTION 18.75.030 Quasi-judicial amendments.

(1) Applicability, Procedure and Authority. Quasi-judicial amendments generally refer to a plan amendment or zone change affecting a single or limited group of properties and that involves the application of existing policy to a specific factual setting. Quasi-judicial amendments shall follow the Type III procedure using the standards of approval in subsection (2) and/or (3) of this section, as applicable. Based on the applicant's ability to satisfy the approval criteria, the application may be approved, approved with conditions, or denied.

Applicant Response: The applicant understands the steps involved in a quasi-judicial amendment and is proposing a Zone Change from R1 to R3 for the subject property.

- (2) Criteria for Quasi-Judicial Comprehensive Plan Map Amendments. The applicant shall submit a written narrative which explains how the approval criteria will be met. A recommendation or a decision to approve, approve with conditions, or to deny an application for a quasi-judicial amendment shall be based on all of the following criteria:
 - (a) Approval of the request is consistent with the relevant Statewide Planning Goals that are designated by the Community Development Director;
 - (b) Approval of the request is consistent with the relevant policies of the Comprehensive Plan that are designated by the Community Development Director;

Applicant Response: The requested Zone Change is consistent with the following Statewide Planning Goals and Policies of the Comprehensive Plan:

Goal 1 - Citizen Involvement, "To develop a citizen involvement program that insures the opportunity for citizens to be involved in all phases of the planning process."

POLICY 1 - The City shall insure an adequate citizen involvement in all phases of the planning process.

Statewide Planning Goal 1 and Comprehensive Plan Policy 1 are intended to "insure an adequate citizen involvement in all phases of the planning process". The proposed Zone Change, Subdivision and Site Plan will be processed as Type II and Type III applications, which are both public processes. Several opportunities for citizen involvement will be afforded by the Staff review, notices of application and decision and public hearings with City Council. Therefore, this goal is satisfied.

Goal 2 – Land Use Planning, "To establish a land use planning process and policy framework as a basis for all decision and actions related to use of land and to assure an adequate factual base for such decisions and actions."

POLICY 2-B. The City and County shall be responsive to the changes in needs and conditions over time and amend the plan accordingly. The amendment process is discussed in the Land Use element.

Statewide Planning Goal 2 and Comprehensive Plan Policy 2B are intended "To establish a land use planning process and policy framework as a basis for all decision and actions related to use of land and to assure an adequate factual base for such decisions and actions." The Madras Comprehensive Plan and Development Code contains the City's adopted and acknowledged land use regulations. Future development proposals must comply with the City's regulations as well as applicable state statutes. The goal of orderly land use planning is achieved through the implementation of the Madras Comprehensive Plan, the Madras Zoning Map and the Madras Development Code. Through this quasi-judicial application and compliance with the criteria and requirements of the MDC, the proposal will comply with Goal 2. Therefore, this goal is satisfied.

Goal 10 – Housing, "To provide for the housing needs of Citizens of the state."

POLICY 10-B. Encourage development of suitable housing to satisfy all income levels. The City's existing housing includes a generous supply of housing that is affordable for low, and moderate income families, but there is a deficit of housing that is commensurate with the financial capabilities of existing and future high income families. The Department of Corrections Facility is expected to create high income jobs (i.e., jobs that will raise household incomes in excess of 120% of the MFI), and the City desires to attract these employees (and maintain existing high income families) as residents. So that housing is available for households at all income levels, rather than only low and moderate income households, the City shall encourage the development of housing that is suitable for high income households. To be competitive with housing in the region for high income buyers, the target housing in the City should include amenities appropriate for high income households, such as a golf course. With the addition of more livable and housing suitable for high income households, the City will grow into a more diverse, vibrant community.

Statewide Planning Goal 10 and Comprehensive Plan Policy 10-B are intended to "Provide for the Housing Needs of the citizens of the State". A Zone Change to R3 (defined below) will allow the site to be developed more efficiently and provide additional housing units. The site will offer three single family homes and sixty market-rate apartments with amenities, which satisfies Statewide Planning Goal 10 and Comprehensive Plan Policy 10-B.R-3 "Planned

Residential Development". Planned Residential Development land use areas, as designated on the Comprehensive Plan Map, are intended to recognize and enhance areas of scenic quality and view amenities by allowing for flexibility in project design while providing for essential development standards. Within these areas development, which is sensitive to the natural topography of the site, minimizes alterations to the land, and maintains, enhances significant natural resources and is compatible with the surrounding development is encouraged. [Added by Ordinance No. 770, Passed by Council on July 25, 2006]



The proposed apartment development meets the intent of the R-3 Zone as follows. The zone change will allow for more efficient use of the topography and reduce alterations to the land by going vertical with the buildings and minimizing the total building footprint area. By preserving the natural topography of the site, the scenic and view amenities will be maintained and benefit to the development and enjoyed by the future residents. The site is compatible with the surrounding development as it sits between a memory care facility to the east, an apartment complex, dental office and church to the west and is directly across the street from St. Charles Hospital, Jefferson County Health Department and designated open space to the south. Additionally, the Morning Crest Estates subdivision, which is contiguous to the northeast corner of the site, is zoned R3.

Goal 11 - Public Facilities and Services, "To plan and develop a timely, orderly and efficient arrangement of public facilities and services to serve as a framework for urban and rural development."

This Goal is intended to "To plan and develop a timely, orderly and efficient arrangement of public facilities and services to serve as a framework for urban and rural development." The area subject to the proposed amendment is an infill property that will accommodate single family and multi-family residential uses. The subject property is and can be served by public sanitary sewer, water, storm drainage, police, fire, schools, and parks. The existing development of surrounding properties precludes the ability to connect a through street, which makes the site ideal for the site plan that is proposed.

Goal 14 Urbanization – "To provide for an orderly and efficient transition from rural to urban land use, to accommodate urban population and urban employment inside urban growth boundaries, to ensure efficient use of land, and to provide for livable communities."

POLICY 14-D. The City shall encourage the development of complete, livable communities that include characteristics such as: a variety of lot sizes, dwelling unit types and ownership types, open spaces and other recreational amenities, a mix of land uses, school and community facilities, connected streets, proximity to downtown and other employment centers, and development that is scaled to the pedestrian and creates a sense of place. New growth areas should be developed in accordance with the Master Planned Community Overlay zone, which requires generous open space and amenities, and encourages efficient use of land and public facilities and services, a variety of housing types, innovative designs and complete pedestrian-friendly communities. Physical barriers, such as highways, tend to disrupt complete communities and livability because they disconnect areas from downtown and result in an auto-oriented environment of sprawl along highway corridors.

Statewide Planning Goal 14 and Comprehensive Plan Policy 14-B are intended "To provide for an orderly and efficient transition from rural to urban land use, to accommodate urban population and urban employment inside urban growth boundaries, to ensure efficient use of land, and to provide for livable communities." The currently undeveloped site sits between a memory care facility to the east, an apartment complex, dental office and church to the west and is directly across the street from St. Charles Hospital, Jefferson County Health Department and designated open space to the south.

Because the site is located within the Madras City Limits and UGB and the proposed zoning designation allow for urban-scale development and a transition from single family homes to the north and northeast to more urban uses on the east, west and south, this Goal is met.

(c) The property and affected area are presently provided with adequate public facilities, services, and transportation networks to support the use, or such facilities, services and

transportation networks are planned to be provided concurrently with the development of the property;

Applicant Response: The site has all utilities available along the NE Oak Street frontage, including City of Madras sewer, City of Madras and Deschutes Valley Water district water, Pacific Power and Cascade Natural Gas. All utility companies have provided will serve letters and have adequate capacity for the proposed development.

The subject property is within the City of Madras and the Urban Growth Boundary. The City Police and Fire Departments provide services within the City limits and the proposed zone change does not change the service provided by these departments to the subject property. Through the future development process, the fire flow and fire hydrant locations will be reviewed and supplemented, if found necessary at that time.

Additionally, the submitted Traffic Impact Analysis and Transportation Planning Rule Analysis demonstrate that the proposal meets the requirements.

(d) Evidence of change in the neighborhood or community or a mistake or inconsistency in the Comprehensive Plan or Zoning Map regarding the property that is the subject of the application; and

Applicant Response: The Plan Map Amendment and Zone Change are proposed to provide better use of an infill site that is located in close proximity to public facilities and adjacent to other multi-family developments and R3 Zoning (Morning Crest Estates Subdivision).

Since the time this site was designated R1 Zoning, St. Charles Madras has expanded their campus on the other side of Oak Street by 26,000 square feet and the Jefferson County Health Department was constructed next to it. As this campus continues to expand, it will benefit from the addition of housing units and amenities that are consistent with the surrounding development and provide residence options for prospective employees.

(e) Approval of the request is consistent with the provisions of the Transportation Planning Rule.

Applicant Response: A Traffic Impact Analysis and Transportation Planning Rule Analysis were completed by a licensed Professional Engineer. The findings of the TIA and TPR Analysis are in Section 18.25.180 of this narrative and the complete study is included with this application.

(3) Criteria for Quasi-Judicial Zone Changes. The applicant must submit a written narrative which explains how the approval criteria will be met. A recommendation or a decision to approve, approve with conditions, or to deny an application for a quasi-judicial zone change must be based on meeting the following criteria:

(a) The amendment will bring the Zoning Map into conformance with the Comprehensive Plan map;

Applicant Response: The zone change is submitted concurrently with a Comprehensive Plan map amendment, so that, when approved together, the zone change will bring the zone map into conformance with the Comprehensive Plan through a single process.

(b) The property and affected area is presently provided with adequate public facilities, services, and transportation networks to support the use, or such facilities, services and transportation networks are planned to be provided concurrently with the development of the property; and

Applicant Response: The site has all utilities available along the NE Oak Street frontage, including City of Madras sewer, City of Madras and Deschutes Valley Water district water, Pacific Power and Cascade Natural Gas. All utility companies have provided will serve letters and have adequate capacity for the proposed development.

The subject property is within the City of Madras and the Urban Growth Boundary. The City Police and Fire Departments provide services within the City limits and the proposed zone change does not change the service provided by these departments to the subject property. Through the future development process, the fire flow and fire hydrant locations will be reviewed and supplemented, if found necessary at that time.

Additionally, the submitted Traffic Impact Analysis and Transportation Planning Rule Analysis demonstrate that the proposal meets the requirements.

(c) Approval of the request is consistent with the provisions of the Transportation Planning Rule. [Ord. 933 § 15.3, 2019.]

Applicant Response: A Traffic Impact Analysis and Transportation Planning Rule Analysis were completed by a licensed Professional Engineer. The findings of the TIA and TPR Analysis are in Section 18.25.180 of this narrative and the complete study is included with this application.

SECTION 18.75.040 Record of amendments.

The Community Development Department and the City Recorder shall maintain records of map and text amendments to the ordinance. [Ord. 933 § 15.4, 2019.]

SECTION 18.75.050 Limitation on reapplication.

No application of a property owner for a rezone shall be considered by the Planning Commission within a one-year period immediately following a previous denial of such request. [Ord. 933 § 15.5, 2019.]

SECTION 18.75.060 Notification of decision.

Within five working days after a final decision on an amendment to the Comprehensive Plan and map, Development Code, or Zoning Map, the Community Development Department shall provide the applicant and the Oregon Department of Land Conservation and Development a complete copy of the City Council decision, and shall also provide notice of the decision to all persons who participated in the local proceedings and requested in writing that they be given notice. The notice shall meet the requirements of ORS 197.615. [Ord. 933 § 15.6, 2019.]

Chapter 18.60: LAND DIVISIONS, REPLATS, AND PROPERTY LINE ADJUSTMENTS

SECTION 18.60.010 Purpose.

In accordance with the provisions of ORS Chapters 92, 197, and 227, this chapter sets forth the minimum standards governing the approval of subdivisions, partitions, replats, and property line adjustments as necessary to carry out the City of Madras Comprehensive Plan and to promote the public health, safety, and general welfare while allowing for cost saving efficiencies. The purpose of these provisions and regulations is to:

- (1) Encourage well planned subdivision and partition development to promote the creation of livable neighborhoods with all needed amenities and community facilities.
- (2) Encourage development in harmony with the natural environment and within resource carrying capacities.
- (3) Safeguard the interests of the public, the applicant, and the future lot owner.
- (4) Improve land records and boundary monumentation.
- (5) Ensure equitable processing of land division applications and accomplish, to the greatest extent possible, the goals and objectives of the Comprehensive Plan.
- (6) Provide for orderly and efficient urban development and coordinate development with public facilities and service plans and capabilities.
- (7) To regulate the orientation of streets, lots, and parcels to ensure access to solar energy by reasonably regulating interests in property within the City, as authorized under ORS 227.090 through 227.190 and ORS 105.880 through 105.895, to promote and maximize the conservation of energy by preserving the option to utilize solar energy and to implement the Comprehensive Plan policies relating to solar energy. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.1, 2019.]

Applicant Response: This section is a Purpose Statement and it does not contain any measureable approval criteria or development standards.

SECTION 18.60.020 Applicability.

Units of land shall only be created or reconfigured in conformance with the standards of this chapter and ORS Chapter 92. No person may subdivide, partition, or reconfigure land within the City of Madras except in accordance with ORS Chapter 92 and the provisions of this Development Code. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.2, 2019.]

SECTION 18.60.030 Delegation.

The City Council, pursuant to ORS <u>92.044(2)</u>, hereby delegates to the Planning Commission the power to take final action on a proposed subdivision and any major replat involving fifty (50) or more lots pursuant to the Type III procedures and to the Community Development Director the power to take final action on any subdivision, partition, major replat, minor replat, or property line adjustment involving fewer than fifty (50) lots pursuant to the Type II procedures. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.3, 2019.]

Applicant Response: The proposed development is for four lots. This standard does not apply.

SECTION 18.60.040 Subdivision Committee.

- (1) There is hereby established a Subdivision Committee which shall consist of:
 - (a) Community Development Director;
 - (b) Public Works Director;
 - (c) County Surveyor; and
 - (d) Fire Marshal;
 - (e) Any other appropriate public agency representative invited by the Community Development Director.
- (2) The Community Development Director shall serve as chairperson of the Subdivision Committee.
- (3) The Subdivision Committee shall be charged with reviewing subdivision and major replat applications for conformance with all applicable regulations and to make recommendations to the Planning Commission. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.4, 2019.]

SECTION 18.60.050 Pre-application meeting.

Prior to submitting a tentative plan for a land division, each applicant or their representative is encouraged to meet with the Community Development Director or a designated staff member

to review the proposal. The intent of this meeting is to advise the applicant of the requirements and standards of this Development Code. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.5, 2019.]

SECTION 18.60.060 Application submission.

Any person, or his authorized agent or representative, proposing a subdivision, partition, or replat shall file an application and the filing fee for the applicable approval, along with a tentative plan, improvement plans, and other supplementary materials as may be required by this chapter or requested by the Subdivision Committee. If any concurrent approvals are sought, the applications for the concurrent approvals will collectively be processed using the highest level procedures for any particular application (i.e., Type II decisions sought concurrently with Type III decisions will be processed as Type III decisions) and shall also include all required information and materials for the applicable concurrent approval. The applicant must either provide electronic copies or submit four paper copies of all application materials to the Community Development Director. [Ord. 968 § 2.6 (Exh. F), 2022; Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.6, 2019.]

Applicant Response: The subdivision application form is signed by the property owner and included with this submittal. All applicable fees will be paid with the submission of this application.

SECTION 18.60.070 General approval process for land divisions.

Land divisions generally follow a two-step approval process. First, a tentative plan is submitted for approval. After receiving tentative plan approval, and after satisfying any conditions of approval from the tentative plan approval, the applicant then files for final plat approval. After receiving final plat approval and satisfying any additional conditions of approval and any requirements of the County, the applicant can then record the plat to perfect the land division. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.7, 2019.]

Applicant Response: The applicant understands the steps required for land divisions.

SECTION 18.60.080 Informational requirements for tentative plans.

Unless waived by the Community Development Director, the following information shall be shown on a tentative plan or provided in accompanying materials. No tentative plan shall be considered complete unless all such information is provided:

- (1) General Information Required.
 - (a) The proposed name of the subdivision, if applicable.

- (b) Names, addresses, and phone numbers of the owner of record, authorized agents or representatives, engineer or surveyor, and any assumed business names filed or to be filed with the Secretary of State by the applicant.
- (c) Date of preparation, north point, scale, and gross area of the subject property.
- (d) Appropriate identification of the drawing as a tentative plan for a subdivision, partition, or replat.
- (e) Location and tract designation sufficient to define its location and boundaries, and a legal description of the tract boundaries in relation to existing plats and streets.
- (f) Certified copy of the recorded instrument under which the applicant claims an ownership interest, or copy of a land sales contract that binds the applicant in the event of tentative plan approval.
- (2) Information Concerning Existing Conditions.
 - (a) Location, names, and widths of existing improved and unimproved streets and roads within and adjacent to the subject property.
 - (b) Location of any existing features such as section lines, section corners, City and special district boundary lines, and survey monuments.
 - (c) Location of existing structures, irrigation canals and ditches, pipelines, waterways, railroads, any natural features such as rock outcroppings, and natural hazards.
 - (d) Location and direction of watercourses, and the location of areas subject to flooding.
 - (e) Location, width, and use or purpose of any existing easement or right-of-way within and adjacent to the subject property.
 - (f) Existing sewer lines, water mains, culverts, and other underground and overhead utilities within and adjacent to the subject property together with pipe sizes, grades, and locations.
 - (g) Contour lines related to some established benchmark or other engineering acceptable datum and having minimum intervals of two feet for slopes of less than five percent (5%), five feet for slopes of five percent (5%) to fifteen percent (15%), 10 feet for slopes of fifteen percent (15%) to twenty percent (20%), and 20 feet for slopes greater than twenty percent (20%).
 - (h) Zoning classification of land within and adjacent to the subject property.

- (i) Names and addresses of all adjoining property owners for a distance of 250 feet.
- (3) Information Concerning Proposed Development.
 - (a) Location, names, width, typical improvements, cross-sections, bridges, culverts, approximate grades, curve radii and centerline lengths and reserve strips of all proposed streets, and the relationship to all existing and projected streets.
 - (b) Location, width, and purpose of all proposed easements or rights-of-way and relationship to all existing easements and rights-of-way.
 - (c) Location of at least one temporary benchmark within the subject property's boundaries.
 - (d) Location, approximate area, and dimensions of each lot/parcel, and proposed lot/parcel and block numbers.
 - (e) Location, approximate area, and dimensions of any lot/parcel or area proposed for public use, the use proposed, and plans for improvements or development thereof.
 - (f) Proposed use, location, approximate area, and dimensions of any lot/parcel intended for nonresidential use.
 - (g) An outline of the area proposed for partial recording, if contemplated or proposed.
 - (h) Source, method, and preliminary plans for domestic water supplies, sewer lines, and all utilities.
 - (i) Description and location of any proposed community facility.
 - (j) Stormwater and other drainage facility plans.
 - (k) Proposed deed restrictions, including access restrictions or protective covenants if such are proposed to be utilized for the proposed development.
 - (I) Statement from each utility company proposed to serve the resulting lots/parcels stating that each company is able and willing to serve the proposed development as set forth in the tentative plan, and the conditions thereof.
 - (m) Proposed fire protection system for the proposed development and written approval thereof by the appropriate serving fire protection agency.
 - (n) If grading is proposed, a separate grading and drainage plan prepared by an engineer must be submitted that must show as-developed contour lines related to some established

benchmark or other engineering acceptable datum and having minimum intervals of two feet for slopes of less than five percent (5%), five feet for slopes of five to fifteen percent (5% to 15%), 10 feet for slopes of fifteen to twenty percent (15% to 20%), and 20 feet for slopes greater than twenty percent (20%).

(o) An addressing plan for the development depicting proposed addresses and driveway locations for each proposed lot or parcel consistent with the requirements of Jefferson County Code Chapter 12.03.

Applicant Response: The tentative plans included with this application contain all general information, existing conditions and information concerning proposed development as required by this section.

(4) Scale. All tentative plans shall be drawn on a sheet at a scale not greater than one inch per 400 feet. [Ord. 968 § 2.6 (Exh. F), 2022; Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.8, 2019.]

Applicant Response: The tentative plans include sheets at a scales ranging from 1''=15' to 1''=40'. This standard has been met.

SECTION 18.60.090 Block standards.

To promote efficient multi-modal circulation along parallel and connecting streets throughout the City, developments shall produce complete blocks bounded by a connecting network of streets, in accordance with the following standards:

- (1) New development shall construct and extend planned streets (arterials, collectors and locals) in their proper projection to create continuous through streets and provide the desirable pattern of orderly developed streets and blocks. Streets shall be developed within a framework that is established in the Transportation System Plan and any applicable special area plan, refinement plan, master plan or other adopted or approved development plan. Where such plans do not provide specific block length and perimeter standards, the requirements listed below shall apply:
- (2) Block lengths and perimeters shall not exceed the following standards as measured from centerline to centerline of through intersecting streets:
 - (a) Six hundred sixty foot block length and 2,000-foot block perimeter in all residential zones;
 - (b) Four hundred foot block length and 1,500-foot block perimeter in the C-2 Zone;
 - (c) Six hundred sixty foot block length and 2,640-foot block perimeter for all other commercial, industrial and mixed-use zones;

(d) An exception may be granted to the maximum block length and/or block perimeter by the decision maker if the applicant can demonstrate that the block length and/or block perimeter cannot be satisfied due to topography, natural features, existing development or other barriers, or it is unreasonable to meet such standards based on the existing pattern of development, or other relevant factors. When an exception is granted, the decision maker may require the land division or property reconfiguration to provide blocks divided by one or more access corridors. Access corridors shall be located to minimize out-of-direction travel by pedestrians and bicyclists and shall meet all applicable accessibility standards. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.9, 2019.]

Applicant Response: The properties surrounding the project site are developed and preclude the formation of blocks. The proposed project includes a new private street that extends from NE Oak Street and ends in a parking lot with adequate fire turnaround easements at the north end of the property.

SECTION 18.60.100 Lot standards.

The size, width, and orientation of lots/parcels shall be appropriate for the location of the land division and for the type of development and use contemplated, and shall be consistent with the lot size provisions of the governing zoning district, subject to the following:

(1) Lot Sizes. Portions of a lot with slopes in excess of twenty percent (20%) will not be counted for purposes of meeting minimum lot sizes.

Applicant Response: All proposed lots exceed the minimum lot size of the proposed zone (R-3). See Sheet C-3.0 Tentative Subdivision Plan for details.

(2) Frontage. Each lot shall satisfy applicable frontage requirements established by MDC 18.20.040.

Applicant Response: All proposed lots meet or exceed the minimum frontage requirements. See Sheet C-3.0 Tentative Plat for details.

(3) All side lot lines shall be at right angles to street lines or radial to curved streets. The decision maker may grant an exception where topography, watercourses, existing streets, infrastructure, and other development preclude such lot lines.

Applicant Response: All side lot lines are at right angles street lines or radial to the curved streets, in accordance with this standard.

(4) Through Lots. Lots that span an entire block should be avoided except where they are essential to provide separation of residential development from major streets or adjacent nonresidential activities, or to overcome specific disadvantages of topography and orientation.

The decision maker may require landscaping buffers or access restrictions as a condition of approval for any through lot.

Applicant Response: There are no through lots proposed. This criteria does not apply.

(5) Solar Access. The lines of lots and parcels must be oriented such that the long axis is in the east-west direction. The decision maker may grant a waiver, where topography, natural features, existing development or other barriers inhibit required orientation. [Ord. 968 § 2.6 (Exh. F), 2022; Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.10, 2019.]

Applicant Response: The four proposed lots have the long axis oriented in the east-west direction. This standard has been met.

SECTION 18.60.110 Zero-lot line subdivision.

In addition to the general provisions for land divisions set forth in this chapter, any application for a zero-lot line subdivision shall meet the following requirements:

- (1) The tentative plan shall indicate all lot divisions, including those along the common wall of dwelling units.
- (2) Independent utility service shall be provided to each unit including, but not limited to, water, electricity, and natural gas, unless common utilities are approved by the affected utility agency and are adequately covered by easements.
- (3) Prior to the granting of final approval for creation of a zero-lot line subdivision, the Community Development Director shall require the applicant to enter into a written agreement, in a form approved by the City Attorney, that establishes the rights, responsibilities and liabilities of the parties with respect to maintenance and use of any common areas of the subdivision such as, but not limited to, common walls, roofing, water pipes, and electrical wiring. Such agreement shall be in a form suitable for recording, and shall be binding upon the heirs, executors, administrators, and assigns of the parties.
- (4) Each zero-lot line subdivision proposal shall receive approval by the Subdivision Committee prior to submission of the final plat. Site plan approval shall be granted only upon a finding that the design, materials, and colors proposed for each dwelling are harmonious and do not detract from the general appearance of the neighborhood. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.11, 2019.]

Applicant Response: A zero-lot line subdivision is not proposed with this project. This criteria does not apply.

SECTION 18.60.120 Approval process for tentative plan for subdivision or major replat.

- (1) The Subdivision Committee shall make its recommendation concerning the tentative plan for a subdivision or major replat to the applicant and Planning Commission prior to the public hearing before the Planning Commission.
- (2) The Planning Commission shall review the tentative plan and all reports and recommendations of appropriate officials and agencies.
- (3) The Planning Commission may approve, approve with conditions, or deny the tentative plan for the proposed development and shall set forth findings for such decision.
- (4) Approval of the tentative plan shall not constitute final acceptance of the plat of the proposed subdivision or major replat for recording; however, approval of such tentative plan shall be binding upon the City for purposes of the preparation of the plat and the City may require only such changes in the plat as are necessary for compliance with the terms of its approval of the tentative plan for the proposed subdivision or major replat and the terms of this chapter. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.12, 2019.]

Applicant Response: The applicant understands the approval process for a tentative plan, as described in this section.

SECTION 18.60.130 Approval process for tentative plan for partition or minor replat.

- (1) The Community Development Director shall process the application under a Type II process and shall review all reports and recommendations of appropriate officials and agencies.
- (2) The Community Development Director may approve, modify, or deny the tentative plan for the proposed development and shall set forth findings for such decision.
- (3) Approval of the tentative plan shall not constitute final acceptance of the plat of the proposed partition or minor replat for recording; however, approval of such tentative plan shall be binding upon the City for purposes of the preparation of the plat and the City may require only such changes in the plat as are necessary for compliance with the terms of its approval of the tentative plan for the proposed partition or minor replat and the terms of this chapter. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.13, 2019.]

Applicant Response: The applicant understands that tentative plat approval is binding but does not constitute final acceptance for recording.

SECTION 18.60.140 Approval criteria for a tentative plan.

The Planning Commission shall not approve a tentative plan for a proposed subdivision or major replat, and the Community Development Director shall not approve a tentative plan for a proposed partition or minor replat, unless the applicable review body finds that the proposal satisfies the requirements of the Development Code, the design and construction standards and the following:

(1) For development other than needed housing, the proposed development contributes to orderly development and land use patterns in the area and provides for the preservation of natural features and resources of the area.

Applicant Response: The proposed application includes a design that is orderly and consistent with surrounding land use patterns. The site has also been designed with preservation of the existing slopes taken into account.

(2) All required public facilities have adequate capacity, as determined by the City, to serve the proposed land division including, without limitation, the transportation, sewer, stormwater, and water systems.

Applicant Response: The application materials include will serve letters from franchise utility companies (Pacific Power, Cascade Natural Gas and Bend Broadband) and the City indicated in the pre-application meeting that there is adequate sewer and water capacity to support the proposed development.

(3) The tentative plan for the proposed development meets the applicable requirements of ORS 92.090.

Applicant Response: The tentative plan meets the applicable requirements of ORS 92.090.

(4) The tentative plan meets the applicable provisions of this chapter.

Applicant Response: The tentative plan meets the applicable provisions of this chapter, as demonstrated on Sheet C-3.0 Tentative Plat.

(5) The tentative plan satisfies the Public Improvement Standards. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.14, 2019.]

Applicant Response: The tentative plan meets the applicable provisions of this chapter, as demonstrated on Sheet C-4.0 Site and Utility Plan.

SECTION 18.60.150 Submission of final plat.

(1) Filing Time Period Requirements. The applicant shall prepare and submit to the Community Development Department a final plat that is in conformance with the approved tentative plan. Within three years after the approval date for the tentative plan, the applicant shall submit the final plat, filing fee, and any supplementary information required by this Development Code and the decision maker. If the applicant fails to proceed with the submission of the final plat before the expiration of the three-year period following the approval of the tentative plan, the tentative plan approval shall be void. The applicant may, however, submit a new tentative plan together with the appropriate filing fee.

Applicant Response: The applicant understands the time periods associated with submitting the final plat for review and approval.

(2) Extensions.

- (a) If the applicant is unable to comply with the filing time requirements of the Development Code, the applicant may submit a written letter to the Community Development Director requesting an extension of the final plat deadline. The letter shall be filed no earlier than sixty (60) days and no later than ten (10) days prior to the date the three-year period expires. It shall also be accompanied by the appropriate fee.
- (b) If there is good cause, the Community Development Director may grant an extension up to six months from the date of expiration. Good cause shall require a showing by the applicant that the delay is unavoidable and was not the result of the applicant's own negligence. The applicant must also show they have made significant progress on each condition of the tentative plan.
- (c) Any extension granted by the Community Development Director may be conditioned by a requirement that the applicant provide appropriate guarantees that the requirements of the Development Code will be met.
- (d) The applicant may appeal a decision of the Community Development Director to the Planning Commission pursuant to MDC $\underline{18.80.240}$. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.15, 2019.]

Applicant Response: The applicant understands that extensions may be granted, if needed, pursuant to the criteria listed above.

SECTION 18.60.160 Submission of final plats for phased development.

- (1) If a tentative plan is approved for phased development, the final plat for the first phase shall be filed within one year of the approval date for the tentative plan.
- (2) The final plats for any subsequent phase shall be filed within three years of the approved date for the tentative plan.

- (3) The applicant may request an extension for any final plat under this section in the manner provided for in MDC 18.80.280.
- (4) If the applicant fails to file a final plat within the specified time period, the tentative plan approval for those phases shall become null and void. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.16, 2019.]

Applicant Response: The proposed subdivision is not phased. This criteria does not apply.

SECTION 18.60.170 Form of final plat.

- (1) The final plat shall be submitted in the form prescribed by state statute and this Development Code.
- (2) All plats and other writings or dedications made a part of such plats offered for recording, shall be made in black India ink, upon material that is 18 inches by 24 inches, suitable for binding and copying, having such characteristics of strength and permanency as may be required by the City. The plat shall be of such a scale, and the indication of the approvals thereof and of the dedication and affidavit of the surveyor shall be of such size or type as will be clearly legible, but no part shall come nearer any edge of the sheet than one inch. The plat may contain as many sheets as necessary, but a fact sheet and an index page shall be included for plats of two or more sheets. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.17, 2019.]

SECTION 18.60.180 Information on final plat.

- (1) General Requirements. In addition to that required for the tentative plan or otherwise specified by law, the following information shall be shown on the final plat:
 - (a) The name of the subdivision, partition, or replat.
 - (b) The name of the owner, applicant, and engineer or surveyor.
 - (c) The date, scale, north point, legend, controlling topography such as bluffs, creeks and other bodies of water, and existing highways and railroads.
 - (d) A legal description of the tract boundaries.
 - (e) Reference points of existing surveys, identified, related to the plat by distances and bearings, and referenced to a field book or map as follows:
 - (i) Stakes, monuments, or other evidences found on the ground and used to determine the boundaries of the development.

- (ii) Adjoining corners of adjoining developments.
- (iii) Other monuments found or established in making the survey or required to be installed by provisions of this Development Code.
- (f) The exact location and width of streets and easements intercepting the boundary of the tract.
- (g) Tract, block, and lot boundary lines and street rights-of-way and centerlines, with dimensions, bearing or deflecting angles, radii, arcs, points of curvature, and tangent bearings. Normal high-water lines for any creek, bay, or other body of water. Tract boundaries and street bearings shall be shown to the nearest thirty (30) seconds with the basis of bearings. Distances shall be shown to the nearest 0.01 feet. No ditto marks shall be used.
- (2) Streets. The width of the streets being dedicated and the curve data shall be based on the street centerline. In addition to the centerline dimensions, the radius and central angle shall be indicated together with the long chord distance and bearing.
- (3) Easements. Easements shall be noted by fine dotted lines, clearly identified and, if already of record, their recorded reference. If an easement is not on record, a statement of the easement shall be given. The width of the easement, its length and bearings, and sufficient ties to locate the easement with respect to the development shall be shown. If the easement is being dedicated by the map, it shall be properly referenced in the owner's certificates of dedication.
- (4) Lot Numbers. Lot numbers beginning with the number "1" and numbered consecutively in each block.
- (5) Block Numbers. For subdivisions and major replats, block numbers beginning with the number "1" and continuing consecutively without omission or duplication throughout the development. The numbers shall be placed so as not to obliterate any figures. Block numbers in an addition to a subdivision of the same name shall be a continuation of the numbering in the original subdivision.
- (6) Public Lands. Public lands, including strips and easements, shall be clearly marked to distinguish them from lots intended for sale.
- (7) Access Restrictions. Limitations on rights of access to and from streets, lots/parcels, and other parcels of land shall be clearly indicated.
- (8) Area. The area of each lot/parcel, if larger than one acre, to the nearest hundredth (1/100 or 0.01) of an acre; and the area of each lot/parcel less than one acre, to the nearest square foot.

- (9) Certificates and Signatures. The following certificates and signatures are required and shall be combined where appropriate:
 - (a) A certificate signed and acknowledged by all parties having any record title interest in the land consenting to the preparation and recording of the final plat.
 - (b) A certificate signed and acknowledged as above, dedicating all land intended for public use, except land intended for the exclusive use of the lot owners in the development, their licensees, visitors, tenants, and servants.
 - (c) A certificate with the seal of and signed by the surveyor responsible for the survey and final map.
 - (d) A certificate for execution by the County Surveyor. Any plat prepared by the County Surveyor in his private capacity shall be approved by the county surveyor of another county in accordance with ORS 92.100(2) and (3).
 - (e) A certificate for execution by the County Assessor.
 - (f) A certificate for execution by the County Tax Collector.
 - (g) A certificate for execution by the irrigation district, where applicable. All plans, plats, or replats of subdivisions or partitions located within the boundaries of an irrigation district, drainage district, water control district, district improvement company, or similar service district shall be submitted to the board of directors of the district or company and its approval thereof shall be indicated thereon by the board before City approval of such plan, plat, or replat of any subdivision or partition. Except that if the applicant is unable to obtain action or approval of any district or company within forty-five (45) days, the applicant shall notify the manager or administrator in writing and thereafter the City shall serve notice on that district or company that any objections to the plan, plat, or replat must be filed in writing with the City within twenty (20) days. Failure of the district or company to respond shall be considered an approval of such plan, plat, or replat.
 - (h) The signature of the Public Works Director.
 - (i) The signature of the Community Development Director.
 - (j) A signature of approval by the City Council.
 - (k) Other certificates required by state regulations. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.18, 2019.]

Applicant Response: The final plat will contain all required information, certifications and signatures listed in this section.

SECTION 18.60.190 Requirements of survey and monumentation.

Any final plat submitted shall meet the survey and monumentation requirements of ORS Chapter 92. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.19, 2019.]

SECTION 18.60.200 Supplemental information with final plat.

The following data, if applicable, shall accompany the final plat:

- (1) Title Report. A preliminary title report or subdivision guarantee report issued by a title insurance company in the name of the owner of the land, showing all parties whose consent is necessary and their interest in the premises; such report shall show evidence of a clear and marketable title.
- (2) Survey Data Sheets. Sheets and drawings shall contain the following information:
 - (a) Traverse data including the coordinates of the boundary of the development and ties to section corners and donation land claim corners, and showing the error of closure, if any. A survey control work sheet may be substituted for this item.
 - (b) The computation of distances, angles, and courses shown on the plat.
 - (c) Ties to existing monuments, proposed monuments, adjacent developments, street corners, and state highway stationing.
- (3) Deed Restrictions. A copy of any deed restrictions applicable to the development.
- (4) Homeowner's Association. If applicable, a copy of any homeowner's association agreement proposed or required for the development.
- (5) Dedications. A copy of any dedication requiring separate documents with specific reference to parks, playgrounds, etc.
- (6) Taxes. A list of all taxes and assessments on the tract which have become a lien on the land subdivided.
- (7) Improvements. If grading, street improvements, sewer or water facilities are required as a condition of approval of the final plat, the following shall be required to be submitted with final plat:
 - (a) An improvement plan in accordance with MDC <u>18.20.100(3)</u>.

- (b) Plans and profiles of sanitary sewers, location of manholes, and drainage system.
- (c) Plans and profiles of the water distribution system showing pipe sizes and location of valves and fire hydrants.
- (d) Specifications for the construction of all utilities.
- (e) Grading plans and specifications as required for areas other than streets and ways.
- (f) Planting plans and specifications for street trees and other plantings in public areas.
- (g) Plans for improvements, design factors, or other provisions for fire protection or fire hazard reduction. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.20, 2019.]

SECTION 18.60.210 Technical review of final plat.

- (1) Compliance Check. Upon receipt by the Community Development Department, the final plat and other data shall be reviewed by the Subdivision Committee or Community Development Director, as applicable, to determine that the development, as shown, is substantially the same as it appeared on the approved tentative plan, and for compliance with provisions of this Development Code and other applicable laws.
- (2) Field Check. The Public Works Director, the Community Development Director, and the County Surveyor, may make such checks in the field as are desirable to verify that the plat is sufficiently correct. The applicant shall grant permission to the Public Works Director, Community Development Director, or County Surveyor to enter the property for this purpose. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.21, 2019.]

Applicant Response: The applicant understands that there may be field checks prior to approval and recording of the final plat and will grant access for necessary parties to do such inspections.

SECTION 18.60.220 Conditions of final plat approval.

(1) The Subdivision Committee or Community Development Director, as applicable, shall determine whether the final plat conforms with the approved tentative plan and these regulations. If the applicable review body does not approve the final plat, it shall advise the applicant of the changes or additions that must be made and shall afford them an opportunity to make corrections. If the applicable review body determines that the plat conforms to all requirements, it shall recommend approval, provided supplemental documents and provisions for required improvements are satisfactory. Approval of the final plat does not constitute or effect an acceptance by the public of the dedication of any street or other easement shown on the plat, nor does such approval bind any other jurisdiction with review authority over the plat.

- (2) No final plat shall be approved unless:
 - (a) Streets and roads for public use are to be dedicated without any reservation or restriction.
 - (b) Streets and roads held for private use as indicated on the tentative plan for such development have been approved by the City Public Works Director.
 - (c) The plat or map contains provisions for dedication to the public of all public improvements, including, but not limited to, streets, roads, parks, and sewage disposal and water supply systems, if made a condition of the approval of the tentative plan.
 - (d) Explanations of all public improvements required as conditions of approval of the tentative plan shall be recorded and referenced on the final plat or map.
- (3) No plat shall be approved unless the developer has either constructed, and had accepted by the City Public Works Director, the required public improvements, or the developer has executed an improvement agreement acceptable to the City. If the developer chooses to construct the improvements, the developer shall all also file with the City a warranty bond executed by a surety company to cover the one-year warranty period following acceptance by the City. Said bond shall be in the amount of ten percent (10%) of the value of the improvements as determined by the Public Works Director. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.22, 2019.]

SECTION 18.60.230 Final signatures.

After the final plat has been checked and approved as provided in this chapter, and all signatures have been obtained, except for those of the Community Development Director and any signatures required from County officials, the Community Development Director shall certify the final plat and submit it to the County for final signatures. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.23, 2019.]

Applicant Response: The applicant understands the process for gathering signatures on the final plat, prior to recording.

SECTION 18.60.240 Recording of final plat.

(1) No plat shall have any force or effect until the same has been duly executed and recorded. No title to any property described in any offer of dedication shall pass until the final plat has been recorded.

- (2) No plat shall be recorded unless all ad valorem taxes and all special assessment fees or other charges required by law to be placed upon the tax roll, which have become a lien upon the development or which will become a lien during the calendar year, have been paid.
- (3) The applicant shall provide exact copies of the recorded plat to the Community Development Director. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.24, 2019.]

SECTION 18.60.250 Errors in the final plat.

If an error in the final plat is discovered after the plat has been filed with the County Clerk, the error shall be corrected by filing a correction plat, which shall be submitted in the same manner as a final plat. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.25, 2019.]

Applicant Response: The applicant understands the process for correcting errors in the final plat.

SECTION 18.60.260 Property line adjustments.

- (1) General. A property line adjustment is the movement or elimination of a common boundary line between two units of land.
 - (a) No more than one common boundary line can be relocated at one time. Additional property line adjustments each require a separate application.
 - (b) Deeds describing the new boundary lines for the affected units of land shall be recorded with the County Clerk's office before another property line adjustment application involving one of the affected units of land can be submitted.
 - (c) Property line adjustments are a land use decision and shall follow the noticing requirements of Chapter <u>18.80</u> MDC.
- (2) Review Criteria. The property line adjustment may be approved only if the reviewing authority shall find that it satisfies the following criteria:
 - (a) The proposed property line adjustment is in conformance with applicable provisions of ORS Chapter <u>92</u>.
 - (b) The proposed property line adjustment will not conflict with legally established easements or access within or adjacent to the proposed property line adjustment.
 - (c) The resulting lots comply with applicable regulations of the zoning district in which they are located. A property line adjustment for a nonconforming lot may be approved; provided, that the property line adjustment does not exacerbate the nonconformity.

- (d) A property line adjustment shall not cause existing structures to straddle the new line or otherwise violate applicable setbacks.
- (e) For lot consolidations, the applicant agrees to remove excess utility connections such that the consolidated lot will only have a single service for water and sewer and will otherwise comply with service requirements from other utility providers.
- (3) The property line adjustment application shall meet the following requirements:
 - (a) Drawn to scale (example: one inch to 100 feet);
 - (b) Show the existing boundary line as a solid line and the proposed movement of the boundary line as a dashed line;
 - (c) Show sizes of the units of land involved (current and after adjustment);
 - (d) Show location of existing structures, access, and utilities; and
 - (e) Show the township, range, section, and tax lot numbers of the two tax lots involved.
- (4) The applicant shall contact the County Surveyor for surveying requirements once the property line adjustment has been approved by the Community Development Director.
- (5) Appeals of a property line adjustment decision shall follow MDC <u>18.80.240</u>. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 933 § 12.26, 2019.]

Applicant Response: No property line adjustments are proposed. This criteria does not apply.

SECTION 18.60.270 Flag lots.

- (1) Eligibility for Flag Lots. Flag lots may only be created if the Public Works Director determines that it is impractical to extend a street (including, without limitation, a cul-de-sac) to the flag portion of a proposed flag lot development.
- (2) Development Standards. In addition to meeting all other applicable criteria, flag lots must comply with the following standards:
 - (a) The minimum lot frontage and minimum width for the pole of a flag lot is 15 feet. The minimum frontage and minimum width for the front lot is the otherwise applicable minimum less 10 feet. Any pole exceeding 150 feet will have to meet all applicable fire code requirements.
 - (b) When a shared driveway serves two or more properties, the shared driveway width must be a minimum of 20 feet. A shared driveway must be employed if the parent parcel

has less than 100 feet of street frontage (or less than 80 feet of frontage if on a cul-de-sac) or for any proposed flag lot on a collector or arterial. The maximum number of properties utilizing a shared driveway is four. Any shared driveway must have a reciprocal access and maintenance easement acceptable to City recorded for all properties utilizing the shared driveway prior to or current with platting.

- (c) Except for the minimum requirements for the pole stated above, minimum lot widths and depths, if any, are measured on the flag portion of a flag lot.
- (d) The flag portion of a flag lot must meet the applicable minimum lot sizes without considering the area of the pole portion of the flag lot.
- (e) The front setback does not apply to the flag portion of the flag lot. The lot lines in the flag portion of a flag lot are side lot lines except for the rear lot line, which is a rear lot line.
- (f) Except as otherwise provided in this subsection, the front lot must meet all applicable requirements for creation of a lot in the applicable zone.
- (g) Flag lots and front lots are not eligible for any variances from dimensional requirements. [Ord. 959 § 2.1 (Exh. B), 2021; Ord. 945 § 2 (Exh. C § 12.27), 2020.]

Applicant Response: No flag lots are proposed. This criteria does not apply.

Chapter 18.80: ADMINISTRATIVE PROVISIONS

SECTION 18.80.010 Pre-application conference.

Unless the application is filed by the City, a pre-application conference is required for all Type III and Type IV applicants. Pre-application conferences are also highly recommended for complex applications and for applicants who are unfamiliar with the land use process. The purpose of the conference shall be to acquaint the applicant with the substantive and procedural requirements of this Development Code and to identify issues likely to arise in processing an application. [Ord. 933 § 16.1, 2019.]

Applicant Response: A pre-application meeting was held with City staff on July 13th, 2023.

SECTION 18.80.020 Applications.

No land use approval or planning review shall be processed unless the applicant submits a complete application.

(1) All applications shall:

- (a) Be submitted by the property owner or a person who has written authorization from the property owner to make the application;
- (b) Be completed on the applicable form prescribed by the City;
- (c) Include supporting information required by this Development Code and any other information necessary to, in the judgment of the Community Development Director, demonstrate compliance with applicable standards;
- (d) Be accompanied by the appropriate application fee, and any applicable public hearing fee, established by the City from time to time; and
- (e) Provide proof of ownership in the form of a deed or other recorded document; except this requirement shall not apply to:
 - (i) Applications submitted by or on behalf of a public entity or public utility having the power of eminent domain with respect to the property subject to the application; or
 - (ii) Applications for development proposals sited on lands owned by the state or the federal government.
- (2) For purposes of this Development Code, a complete application refers to an application submitted in conformance with this section and any other requirements of the particular application set forth in this Development Code. An application is not complete unless, in the judgment of the Community Development Director, the application contains sufficient information to address all applicable standards. Acceptance of an application as complete shall not preclude a determination at a later date that additional applicable standards need to be addressed or a later determination that additional information is needed to adequately address applicable standards. [Ord. 933 § 16.2, 2019.]

Applicant Response: The applicant understands that the application must be complete and include all items listed on the required application forms.

SECTION 18.80.030 Modification of application.

- (1) Subject to this section, an applicant may modify an application at any time during the approval process up until the issuance of an administrative decision or the close of the record for an application requiring a public hearing.
- (2) The decision maker shall not consider any evidence submitted by or on behalf of an applicant that would constitute a modification of application unless the applicant submits a complete application for a modification and agrees in writing to restart the applicable review period as of the date the modification is submitted.

- (3) A modification of application that constitutes a new proposal shall not be permitted as a modification, but shall instead require the filing of a new application.
- (4) For Type III decisions, the decision maker may require that the modified application be renoticed and additional hearings be held.
- (5) Up until the issuance of an administrative decision or the day a public hearing is opened for receipt of oral testimony, the Community Development Director shall have sole authority to determine whether an applicant's submittal requires an application for modification of application or requires submittal of a new application. After such time, the higher decision maker shall make such determinations. The decision maker's determination shall be appealable only to the Oregon Land Use Board of Appeals (LUBA) and shall be appealable only after a final decision is entered by the City on the underlying application. [Ord. 933 § 16.3, 2019.]

Applicant Response: No modification of application is proposed. This criteria does not apply.

SECTION 18.80.040 Withdrawal of application.

An applicant may withdraw an application in writing at any time prior to the time a decision becomes final. If the property owner is not the applicant, no consent to withdraw the application is needed from the property owner. If withdrawn, the City may refund the application fee in an amount determined by the Community Development Director based on the amount of time spent by the City processing the application prior to the withdrawal. [Ord. 933 § 16.4, 2019.]

SECTION 18.80.050 Burden of proof.

The burden of proof to demonstrate compliance with the applicable standards is upon the applicant for all land use approvals and planning reviews. [Ord. 933 § 16.5, 2019.]

SECTION 18.80.060 Applicable standards.

The standards and criteria applicable to an application shall be the standards and criteria applicable at the time the application was first submitted. [Ord. 933 § 16.6, 2019.]

Applicant Response: This is a purpose statement and does not contain any actionable criteria.

SECTION 18.80.070 Final action.

The City shall take final action on all applications in accordance with the time limitations set forth in ORS 227.178 as the same may be amended from time to time. [Ord. 933 § 16.7, 2019.]

Applicant Response: The applicant understands the time limitations that the City must follow in taking final action on the land use application.

SECTION 18.80.080 Time computation.

Except when otherwise provided, the time within which an act is required to be done shall be computed by excluding the first day and including the last day, unless the last day is a Saturday, Sunday, legal holiday, or any day on which the City is not open for business pursuant to a City ordinance, in which case it shall also be excluded. [Ord. 933 § 16.8, 2019.]

SECTION 18.80.090 Classification of decisions.

All land use approvals and planning reviews shall be processed based on the decision classification hierarchy set forth below. Except where the classification is expressly prescribed in this Development Code, the Community Development Director shall have discretion as to how a particular application, request, or review shall be classified and which review procedures will be used, which shall not be an appealable decision.

(...)

- (2) Type II Decisions.
 - (a) Type II decisions are made by the Community Development Director following public notice and an opportunity for parties to comment, but without a public hearing.
 - (b) Applications for a partition, site plan approval, minor variance, and such other applications as prescribed by this Development Code shall be processed as Type II decisions.
 - (c) The Community Development Director has discretion to elevate an application for a Type II decision to a Type III decision.
 - (d) If appealed, Type II decisions are reviewed by the Planning Commission and the Planning Commission's decision may be appealed to the City Council subject to the City Council's discretion to hear the appeal.
- (3) Type III Decisions.
 - (a) Type III decisions are made by the Planning Commission after a public hearing following quasi-judicial hearings procedures set forth in this chapter.
 - (b) Applications for a subdivision, planned unit development, conditional use, major variance, quasi-judicial zone change, master development plan, and such other applications as prescribed by this Development Code shall be processed as Type III decisions.

(c) If appealed, Type III decisions may be appealed to the City Council subject to the City Council's discretion to hear the appeal.

(...)

(5) Additional or alternative procedures for specific applications may be set forth in this Development Code. [Ord. 968 § 2.6 (Exh. F), 2022; Ord. 933 § 16.9, 2019.]

Applicant Response: The application includes one Type III Application (Zone Change) and two Type II Applications (Subdivision and Site Plan Application). The applicant understands the processes for both types of applications.

SECTION 18.80.100 Hearings officers.

The City Council may appoint a special Hearings Officer to review an application or appeal in place of the Planning Commission or City Council. [Ord. 933 § 16.10, 2019.]

SECTION 18.80.110 Notice of application.

(...)

- (2) Notice of an application for a Type II decision shall be mailed within ten (10) days after City's acceptance of a complete application. Written notice shall also be mailed to the following persons:
 - (a) The applicant.
 - (b) Unless specified elsewhere in this Development Code, to all owners of property within a distance of 250 feet of the subject property at the owner's address of record with the Jefferson County Tax Assessor.
 - (c) Affected public agencies, including the following:
 - (i) Division of State Lands. The City shall notify the Oregon Division of State Lands (DSL) of any application that involves lands that are wholly or partially within areas that are identified as wetlands. Notice shall be in writing using the DSL Wetland Land Use Notification form and shall be sent within five working days of acceptance of a complete application (ORS 227.350).
 - (ii) Department of Fish and Wildlife. The City shall notify the Oregon Department of Fish and Wildlife (ODFW) in writing of any application for development activities within the riparian corridor. A mitigation recommendation shall be obtained from ODFW. Approval of the proposed development shall include a condition requiring compliance with the ODFW mitigation recommendations (OAR 635-415).

- (iii) Other Agencies. The City shall notify other public agencies, as appropriate, that have statutory or administrative rule authority to review or issue state permits associated with local development applications.
- (3) Notice of Type III decisions shall be the same as that required of Type II decisions except that the Community Development Director shall set the date of the initial public hearing and a notice of the public hearing shall be published in a newspaper of general circulation within the City no less than twenty (20) days and no more than forty (40) days prior to the public hearing.

(...)

- (5) The failure of a party to receive actual notice shall not invalidate any proceeding or any decision issued pursuant to this Development Code.
- (6) Notwithstanding the provisions of this section, where other provisions of this Development Code specify procedures with greater opportunity for public notice and comment, those procedures shall apply. [Ord. 933 § 16.11, 2019.]

Applicant Response: The applicant understands the noticing process for Type II and Type III applications as described in this section.

SECTION 18.80.120 Contents of public notice.

- (1) All required public notices shall provide a brief description of the applicant's request, a list of applicable standards, the location of the property, the date, time, and place of the public hearing (if applicable), and instructions on obtaining copies of the application and providing written comment.
- (2) All notices for public hearings shall also contain a statement that recipients may request a copy of the staff report. [Ord. 933 § 16.12, 2019.]

Applicant Response: The applicant understands the contents of the public notice to be issued upon submittal of the application.

SECTION 18.80.130 Public hearing procedure.

- (1) A public hearing shall be conducted in the following order:
 - (a) The decision maker shall explain the purpose of the public hearing and announce the order of proceedings, including reasonable time limits on presentations by parties.

- (b) A statement by the decision maker regarding pre-hearing contacts, bias, prejudice, or personal interest shall be made.
- (c) Any evidence received outside of the hearing shall be stated in the record.
- (d) Challenges to the decision maker's qualifications to hear the matter must be stated.
- (e) Order of presentation:
 - (i) Staff report.
 - (ii) Proponent's presentation.
 - (iii) Opponent's presentation.
 - (iv) Interested parties.
 - (v) Proponent's rebuttal.
 - (vi) Staff comments.
 - (vii) Questions from or to the decision maker may be entertained at any time at the decision maker's discretion. [Ord. 933 § 16.13, 2019.]

Applicant Response: The applicant understands the public hearing processes associated with the proposed applications.

SECTION 18.80.140 Filing of staff report for public hearing.

- (1) A staff report shall be completed at least seven days prior to the public hearing.
- (2) A copy of the staff report shall be filed with the decision maker, mailed to the applicant, and made available to such other persons who request a copy.
- (3) Oral or written modifications and additions to the staff report shall be allowed prior to or at the time of the public hearing. [Ord. 933 § 16.14, 2019.]

Applicant Response: The applicant understands the steps associated with issuance of the staff report.

SECTION 18.80.150 Prohibition on pre-hearing (ex parte) contacts.

The decision maker or any member thereof shall not communicate directly or indirectly with any party or representative of a party in connection with any quasi-judicial application where a

public hearing is scheduled. Any pre-hearing ex parte contact shall be disclosed on the record at the public hearing. [Ord. 933 § 16.15, 2019.]

SECTION 18.80.160 Challenge for bias, prejudgment, or personal interest.

- (1) Prior to or at the commencement of a quasi-judicial public hearing, any party may challenge the qualifications of the decision maker, or a member thereof, for bias, prejudgment, or personal interest. The challenge shall be documented with specific reasons supported by substantial evidence.
- (2) Should qualifications be challenged, the decision maker, or the member thereof, shall disqualify themselves, withdraw, or make a statement on the record of their capacity to hear the request and make a decision without bias, prejudgment, or personal interest. [Ord. 933 § 16.16, 2019.]

SECTION 18.80.170 Objections to procedural issues.

Any objections to any procedural issue not raised prior to or during the public hearing are waived. [Ord. 933 § 16.17, 2019.]

SECTION 18.80.180 Limitation on oral presentations.

The decision maker may set reasonable time limits on oral presentations at public hearings. [Ord. 933 § 16.18, 2019.]

SECTION 18.80.190 Record.

- (1) All evidence timely submitted and placed before the decision maker shall be entered into the record.
- (2) For public hearings, an audio recording of the hearing shall be made.
- (3) All exhibits presented shall be marked to show the application file number and the identity of the party offering the evidence. [Ord. 933 § 16.19, 2019.]

SECTION 18.80.200 Notice of decision.

The final decision of the decision maker shall be in writing, signed, and mailed to all parties; provided, however, only the point of contact provided to the City will be delivered notice for any group, entity, or similar collection of individuals constituting a party. [Ord. 933 § 16.20, 2019.]

Applicant Response: The applicant understands the steps and process associated with a Public Hearing, presentations, public record and the notice of decision.

SECTION 18.80.210 Reapplication limited.

If a specific application is denied, no reapplication for substantially the same proposal may be made for six months or the date specified elsewhere in this Development Code, whichever is greater, following the date of the final decision. [Ord. 933 § 16.21, 2019.]

Applicant Response: The applicant understands the limitations for reapplying for an application.

SECTION 18.80.220 Call-up by City Council or Planning Commission.

- (1) Any decision may be called up for review at the discretion of a higher decision maker.
- (2) The review shall be initiated, if at all, by the higher decision maker filing a written request with the Community Development Director within fifteen (15) days from the date of the final written decision.
- (3) Such review shall be conducted in the same manner as an appeal. [Ord. 933 § 16.22, 2019.]

Applicant Response: The applicant understands the process for a land use decision to be called up by City Council or the Planning Commission.

SECTION 18.80.230 Appeals.

- (1) A decision shall be final unless a complete notice of appeal, compliant with MDC <u>18.80.240</u>, is received by the Community Development Department within fifteen (15) days of the mailing date of the final written decision and provided the challenged decision is subject to appeal.
- (2) Who may file an appeal:
 - (a) A party to the application.
 - (b) A person to whom notice was to be mailed in accordance with MDC <u>18.80.110</u>, and to whom no notice was mailed.
 - (c) The Planning Commission; provided, however, any appeal by the Planning Commission shall go directly to the City Council. No fee shall be required for an appeal filed by the Planning Commission.
- (3) If more than one party files a notice of appeal on the same decision, the appeals shall be consolidated, noticed, and heard as one proceeding.

- (4) An appeal may be withdrawn in writing by an appellant at any time prior to the rendering of a final decision on the appeal. Subject to the existence of other appeals on the same application, in such event the appeal proceedings shall terminate as of the date the withdrawal is received. An appeal may be withdrawn under this section regardless of whether other nonfiling parties have relied upon the appeal filed by the appellant.
- (5) Any failure to conform to the requirements of MDC $\underline{18.80.240}$ and MDC $\underline{18.80.250}$ shall constitute a jurisdictional defect requiring dismissal of the appeal as untimely and/or unperfected.
- (6) Determination of jurisdictional defects in an appeal shall be made by the body to whom an appeal has been made. [Ord. 933 § 16.23, 2019.]

Applicant Response: The applicant understands the requirements and process for an appeal.

SECTION 18.80.240 Notice of appeal.

Every notice of appeal shall contain:

- (1) Proper identification of the decision subject to appeal;
- (2) The specific grounds relied upon for appeal;
- (3) If a hearing was held below, a transcription of the proceedings;
 - (a) Failure to submit a transcript shall render a notice of appeal incomplete and thus untimely. An appellant may cure an incomplete notice of appeal by submitting the transcript within ten (10) days of the date that the notice of appeal was filed; and
- (4) All parties shall be mailed notice of the hearing on appeal within ten (10) days of scheduling the hearing. [Ord. 933 § 16.24, 2019.]

Applicant Response: The applicant understands the process for the notice of an appeal, should that become relevant.

SECTION 18.80.250 Scope of review on appeal.

- (1) The review of a Type II decision on appeal before the Planning Commission shall be de novo.
- (2) Except where review by the City Council is expressly required, the City Council has discretion whether to hear any appeal for which it has jurisdiction including, without limitation, review of a decision on appeal issued by the Planning Commission. A decision by the City Council to not grant discretionary review of the appeal is the final determination of the City and

will be considered to be an adoption by the Council of the decision being appealed, including any interpretations of this Development Code and the City Comprehensive Plan included in the decision. The final decision may be appealed to the Oregon Land Use Board of Appeals as provided by law.

- (3) If the City Council elects to hear to a discretionary appeal, the City Council has further discretion whether to hear the appeal de novo or on the record. Moreover, the City Council may elect to limit review of the appeal to specific issues set forth in the notice of appeal.
- (4) The City Council's decision whether to grant discretionary review of an appeal, and the scope of the discretionary review, will be made without testimony or argument from persons interested in the appeal. [Ord. 933 § 16.25, 2019.]

Applicant Response: The applicant understands the scope of review for an appeal, should that become applicable.

SECTION 18.80.260 Rehearing.

Rehearings shall not be allowed. [Ord. 933 § 16.26, 2019.]

Applicant Response: The applicant understands the requirements and process for a rehearing, should one be necessary in the future.

SECTION 18.80.270 Duration of approval.

Except as provided elsewhere in this Development Code, all land use approvals and planning reviews shall be valid for a period of one year from the date of approval, unless a shorter or longer duration is granted or required as part of the approval. The date of the approval is the date that the land use approval becomes final for all purposes (no longer subject to appeal or further appeals) or, for planning reviews, the date the planning review approval is issued. [Ord. 933 § 16.27, 2019.]

Applicant Response: The applicant understands the durations of approval for the subdivision and site plan approvals being requested with this application.

SECTION 18.80.280 Extension.

- (1) Except as provided elsewhere in this Development Code, any land use approval or planning review may be extended, prior to expiration, by the Community Development Director for periods of six months, but in no event by more than two years. Such extensions shall be administrative, without notice, and in writing.
- (2) No land use approval may be extended unless significant progress occurred during the duration of the approval or prior extension, or circumstances occurred which were out of the

applicant's control. If the land use approval is subject to conditions of approval, significant progress means that some action must have commenced or occurred towards satisfaction of the conditions of approval. [Ord. 933 § 16.28, 2019.]

Applicant Response: The applicant understands the requirements and process for requesting an extension of land use or planning approval, should one be necessary in the future.

SECTION 18.80.290 Modification of approval.

- (1) Purpose. To provide the decision maker with an opportunity to correct errors and to provide the applicant a mechanism to request modification of conditions of approval or other aspects of an approved application.
- (2) Modification by Decision Maker. Unless an appeal of the decision has been sooner filed, the decision maker may, at its sole discretion, modify the decision within fifteen (15) days of the mailing date of the decision. If such modifications are made, a new notice of decision shall be issued and the fifteen (15) day appeal period shall be restarted based on the mailing date of the modified decision.
- (3) Modification by Request. A request to modify an approval may be filed by the applicant or any successor in interest to the decision with the Community Development Department any time after the decision becomes final.
- (4) Modification of Approval by Request Review Procedures.
 - (a) A modification by request that does not have significant additional impacts on surrounding properties must be reviewed only under the criteria applicable to the aspect(s) of the proposal that are to be modified.
 - (b) A modification by request that has significant additional impacts on surrounding properties must be reviewed under all applicable standards and may, at the discretion of the Community Development Director, require the filing of a new application.
 - (c) A modification by request that, in the discretion of the decision maker, constitutes a new proposal must be filed as a new application.
 - (d) The request to modify an approval shall be reviewed by the decision maker that made the initial decision. [Ord. 933 § 16.29, 2019.]

Applicant Response: The applicant understands the requirements and process for a modification of approval, should one be necessary in the future.

SECTION 18.80.300 Declaratory ruling.

- (1) Subject to the other provisions of this section, there shall be available for the City's Comprehensive Plan and Development Code a process for:
 - (a) Interpretation of provisions of the Comprehensive Plan, Development Code, or other implementation of regulations in which there is doubt or a dispute as to their meaning or application;
 - (b) Interpretation of a provision or limitation of a land use approval or planning review issued by the City in which there is doubt or a dispute as to its meaning or application;
 - (c) Determination of whether an approval has been initiated or considering the revocation of a previously issued approval;
 - (d) Determination of the validity and scope of a nonconforming use; and
 - (e) Validation of a lot of record.

Such a determination or interpretation shall be known as a "declaratory ruling" and shall be processed in accordance with this section. In all cases, as part of making a determination or interpretation the decision maker shall have the authority to declare the rights and obligations of persons affected by the ruling.

- (2) A declaratory ruling shall be available only in instances involving a fact-specific controversy and to resolve and determine the particular rights and obligations of particular parties to the controversy. Declaratory proceedings shall not be used to grant an advisory opinion. Declaratory proceedings shall not be used as a substitute for seeking an amendment of general applicability to a legislative enactment.
- (3) Declaratory rulings shall not be used as a substitute for an appeal of a decision or for a modification of an approval. In the case of a ruling on a City approval, a declaratory ruling shall not be available until sixty (60) days after a decision is final.
- (4) The Community Development Director may refuse to accept, and the decision maker may deny, an application for a declaratory ruling if:
 - (a) The Community Development Director or decision maker determines that the question presented can be decided in conjunction with approving or denying a pending application or should be made as part of a decision on an application not yet filed; or

- (b) The Community Development Director or decision maker determines that there is an enforcement case pending in circuit court in which the same issue necessarily will be decided as to the applicant and the applicant failed to file the request for a declaratory ruling within two weeks after being cited or served with a complaint.
- (5) The Community Development Director's or decision maker's determination to not accept or to deny an application for a declaratory ruling shall be the City's final decision.
- (6) Only the following persons may initiate a declaratory ruling under this section:
 - (a) The owner of a property requesting a declaratory ruling relating to the use of the owner's property;
 - (b) In cases where the request is to interpret a previously issued approval, the holder of the approval; or
 - (c) The Community Development Director.
- (7) A request for a declaratory ruling shall be initiated by filing a complete application with the Community Development Department. Each application for a declaratory ruling shall include the precise question on which a ruling is sought. The application shall set forth whatever facts are relevant and necessary for making the determination and such other information as may be required by the City.
- (8) Declaratory rulings shall be processed as either a Type II or Type III application at the discretion of the Community Development Director.
- (9) A declaratory ruling shall be conclusive on the subject of the ruling and bind the parties thereto as to the determination made.
- (10) Parties to a declaratory ruling shall not be entitled to reapply for a declaratory ruling on the same question.
- (11) A declaratory ruling is not subject to modification by request under MDC <u>18.80.290</u>. [Ord. 933 § 16.30, 2019.]

Applicant Response: The applicant understands the requirements and process for a declaratory ruling, should one be necessary in the future.

SECTION 18.80.310 Lot of record.

Not all units of land are "lots of record." the City will not issue any approvals for land divisions or physical development of real property unless the subject property constitutes a lot of record. The Community Development Director may require a lot of record verification whenever there

is any question as to the origins or the lawfulness of the subject property. Such review will determine if and when a unit of land was created and if it was created in accordance with the law in effect at the time of creation.

- (1) For purposes of this Development Code, a "lot of record" is a unit of land held in separate ownership as shown on the records of the Jefferson County Clerk, which conforms to all zoning and subdivision/partition requirements in effect on the date the unit of land was created.
- (2) What is not a lot of record:
 - (a) A unit of land created solely by a tax lot segregation because of an assessor's role change or for the convenience of the assessor;
 - (b) A unit of land created by an intervening section or township line or right-of-way; or
 - (c) A unit of land created by the foreclosure of a security interest.
- (3) Remedy for Units of Land Found Not to Be Lots of Record.
 - (a) The property owner may seek a property line adjustment to consolidate the unit of land with a contiguous unit of land that is determined to be a lot of record. Both units of land must be held in the same ownership as shown on the records of the Jefferson County Clerk;
 - (b) The property owner may apply for and obtain approval for a single lot partition in conformance with ORS <u>92.177</u>; or
 - (c) The property owner may apply for and obtain a lot of record validation under ORS <u>92.176</u>. [Ord. 933 § 16.31, 2019.]

Applicant Response: The site has been reviewed by a licensed land surveyor and is an existing legal lot of record. This criteria is met.

SECTION 18.80.320 Authorization of similar uses.

The Community Development Director may permit in a particular zone, after holding a public hearing, a use not listed in this Development Code, provided the use is of the same general type as the uses permitted in that zoning district. However, this section does not authorize placement of a proposed use in a zone where the use is not listed, when that use is specifically listed in another zone, or when the proposed use is of the same general type as a use listed in another zone. An authorization for a similar use may be a standalone declaratory ruling or made as part of an application. [Ord. 933 § 16.32, 2019.]

Applicant Response:	There are no proposed uses that are not currently permitted in the
existing or proposed z	oning districts.

LOCATION **VICINITY MAP**

STONE OAK ZONE CHANGE, SUBDIVISION AND SITE PLAN

TAXLOT: 111301CA02203

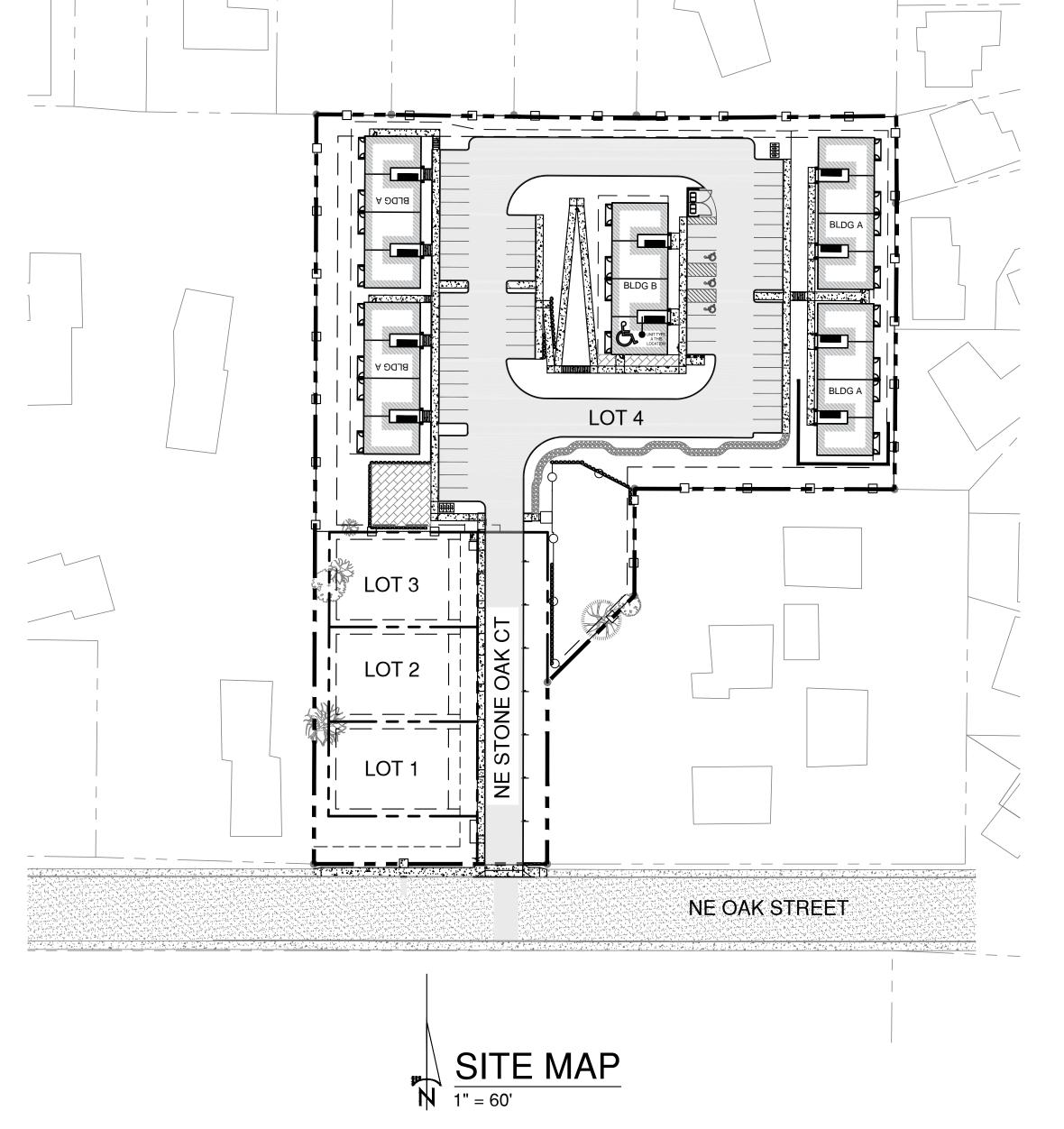
CITY PROJECT NUMBER: TBD

NOVEMBER 2023

CITY OF MADRAS, JEFFERSON COUNTY, OREGON

CONSTRUCTION NOTES:

- 7. ALL GRADING SHALL BE IN CONFORMANCE WITH THE CURRENT CITY STANDARDS AND SPECIFICATIONS AND CURRENT GRADING ORDINANCE. ALL SUBGRADE MATERIAL SHALL BE CONSIDERED CLASS A AND COMPACTED TO 95% OF OPTIMUM DENSITY. AS SPECIFIED IN THESE PLANS, ALL FILL MATERIAL SHALL BE COMPACTED TO 95% RELATIVE COMPACTION PER THE CITY TESTING REQUIREMENTS.
- ALL FINAL CUT SLOPES SHALL NOT EXCEED A GRADE OF 2 TO 1 VERTICAL UNLESS OTHERWISE APPROVED. FILL SLOPES SHALL NOT EXCEED A GRADE OF 2 HORIZONTAL TO 1 VERTICAL UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- 9. ALL UNSUITABLE SOILS MATERIALS, RUBBISH AND DEBRIS RESULTING FROM GRADING OPERATIONS SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF PROPERLY.
- 10. THE CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT, AND METHODS REQUIRED TO PREVENT DUST IN AMOUNTS DAMAGING TO PROPERTY, CULTIVATED VEGETATION AND DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST RESULTING FROM CONSTRUCTION.
- 11. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE INDUSTRIAL SAFETY REGULATIONS. THE CITY AND DESCHUTES COUNTY AND THEIR OFFICIALS, THE ENGINEER, AND THE OWNER SHALL NOT BE RESPONSIBLE FOR ENFORCING SAFETY REGULATIONS.
- 12. MATERIAL QUANTITIES USED, NOTED, OR PROVIDED IN A SEPARATE ITEMIZED QUANTITY TAKE-OFF ARE AN ENGINEER'S OPINION OF PROBABLE MATERIAL REQUIREMENTS, AND IS AN ESTIMATE ONLY. CONTRACTOR'S HAVE THE SOLE RESPONSIBILITY OF MAKING THEIR OWN QUANTITY TAKE-OFF AND COST ESTIMATE.
- 13. ALL WORK SHALL BE PERFORMED BY A CITY APPROVED CONTRACTOR.
- 14. UTILITIES SHALL HAVE THE RIGHT TO INSTALL, MAINTAIN, AND OPERATE THEIR EQUIPMENT ABOVE AND BELOW GROUND AND ALL OTHER RELATED FACILITIES WITHIN THE PUBLIC UTILITY EASEMENTS (PUE) IDENTIFIED ON THIS PLAT MAP AS MAY BE NECESSARY OR DESIRABLE IN SERVING THE LOTS IDENTIFIED HEREIN, INCLUDING THE RIGHT OF ACCESS TO SUCH FACILITIES AND THE RIGHT TO REQUIRE THE REMOVAL OF ANY OBSTRUCTIONS INCLUDING TREES AND VEGETATION THAT MAY BE PLACED WITH IN THE PUE AT THE LOT OWNERS EXPENSE. AT NO TIME MAY ANY PERMANENT STRUCTURES BE PLACED WITHIN THE PUE OR ANY OTHER OBSTRUCTION WHICH INTERFERES WITH THE USE OF THE PUE WITHOUT PRIOR WRITTEN APPROVAL OF THE UTILITIES AND FACILITIES IN THE PUE.
- 15. CITY ENGINEER'S SIGNATURE DOES NOT CONSTITUTE APPROVAL OF FACILITIES PROPOSED ON PRIVATE PROPERTY. SEPARATE PERMITS ISSUED BY THE BUILDING DEPARTMENT ARE REQUIRED AND SHALL BE OBTAINED BY THE DEVELOPER FOR FACILITIES LOCATED OUTSIDE OF THE PUBLIC RIGHT-OF-WAY.
- 16. ANY WORK WITHIN EXISTING PUBLIC RIGHT-OF-WAY OR DEDICATED CITY EASEMENTS REQUIRES A SEPARATE RIGHT-OF-WAY EXCAVATION PERMIT OBTAINED FROM THE CITY ENGINEERING DIVISION.
- 17. ACCESS TO EXISTING PROPERTIES/RESIDENTS AFFECTED BY CONSTRUCTION ACTIVITIES WILL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR. EMERGENCY ACCESS AND COORDINATION OF BEND EMERGENCY SERVICES WILL BE REQUIRED.
- 18. SURVEY MONUMENTS, CONTROLS, OR PROPERTY CORNERS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION ACTIVITIES WILL BE RE-ESTABLISHED, RESTORED, AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- 19. TOPOGRAPHY SURVEY DATUM IS BASED ON NAD89 USING THE OREGON NETWORK.
- 20. ALL NECESSARY CHANGES TO DESIGN PLANS, REVEALED DURING CONSTRUCTION, MUST BE APPROVED BY THE DESIGN ENGINEER AND CITY OF BEND.



DEVELOPER:

MOMENTASIZE, LLC DIRK VAN DER VELDE 16330 SKYLINE RANCH ROAD BEND, OR 97703

ENGINEER & SURVEYOR:

BECON CIVIL ENGINEERING & LAND SURVEYING APRIL PUST, PE 549 SW MILL VIEW WAY, STE 100 BEND, OREGON 97702

UTILITY PROVIDERS:

CITY OF MADRAS SEWER DESCHUTES VALLEY WATER DISTRICT PACIFIC POWER CASCADE NATURAL GAS **BEND BROADBAND**

SHEET INDEX:

- C-1.0 COVER SHEET
- C-2.0 EXISTING CONDITIONS & DEMO PLAN
- C-3.0 TENTATIVE SUBDIVISION PLAT
- C-4.0 SITE AND UTILITY PLAN SOUTH
- C-4.1 SITE AND UTILITY PLAN NORTH
- C-5.0 GRADING & DRAINAGE PLAN SOUTH
- C-5.1 GRADING & DRAINAGE PLAN NORTH

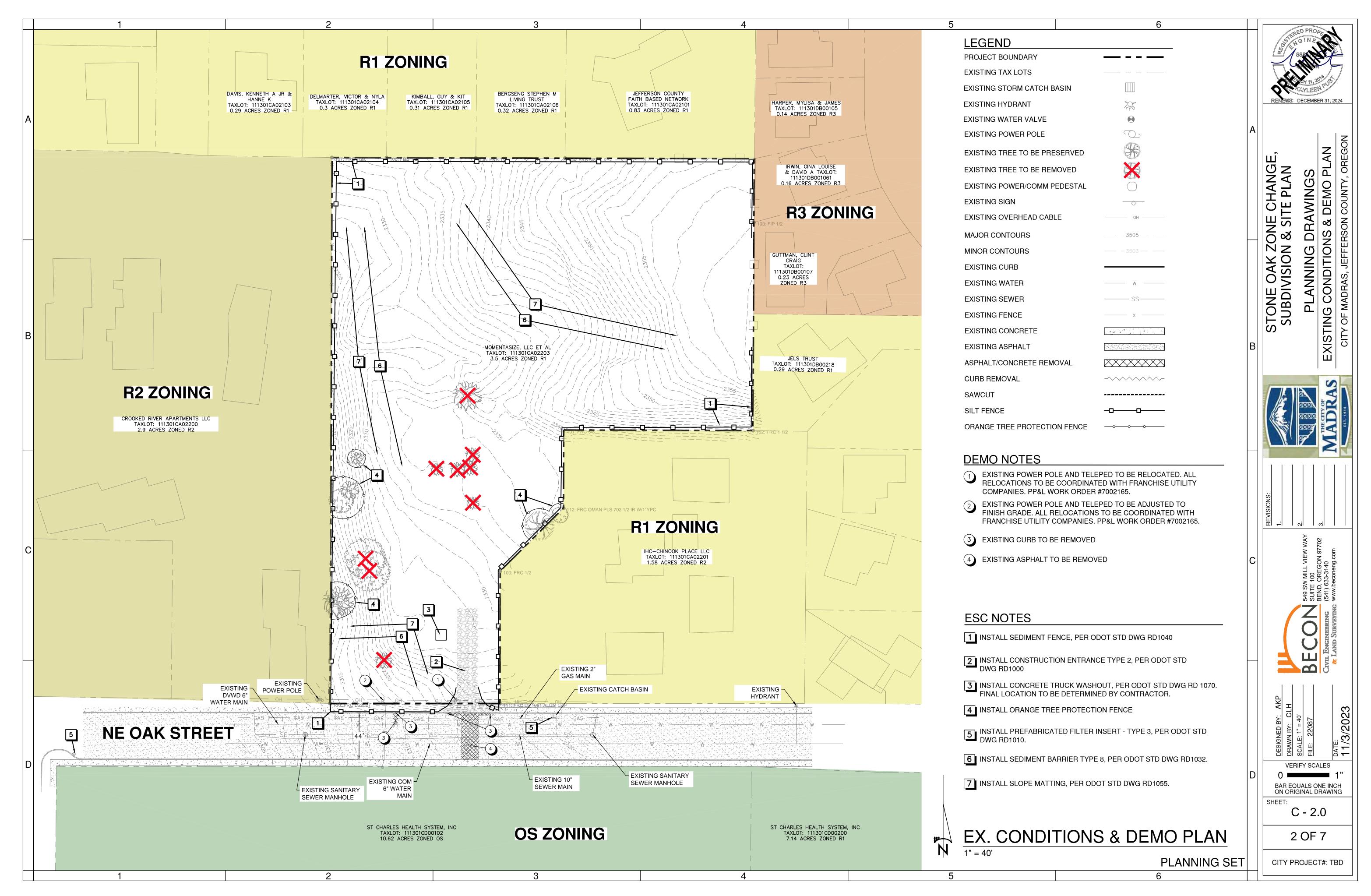
PLANNING SET

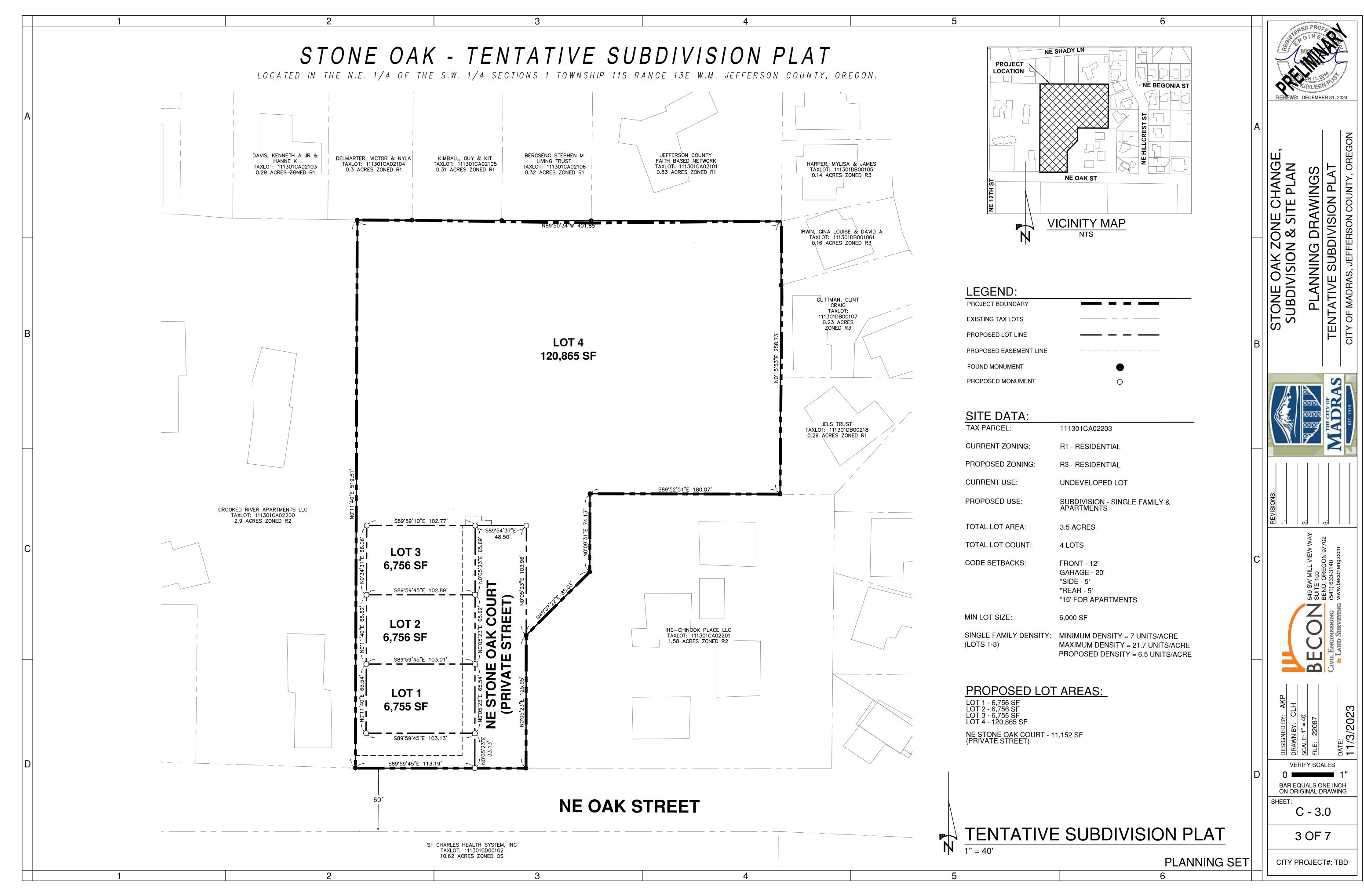
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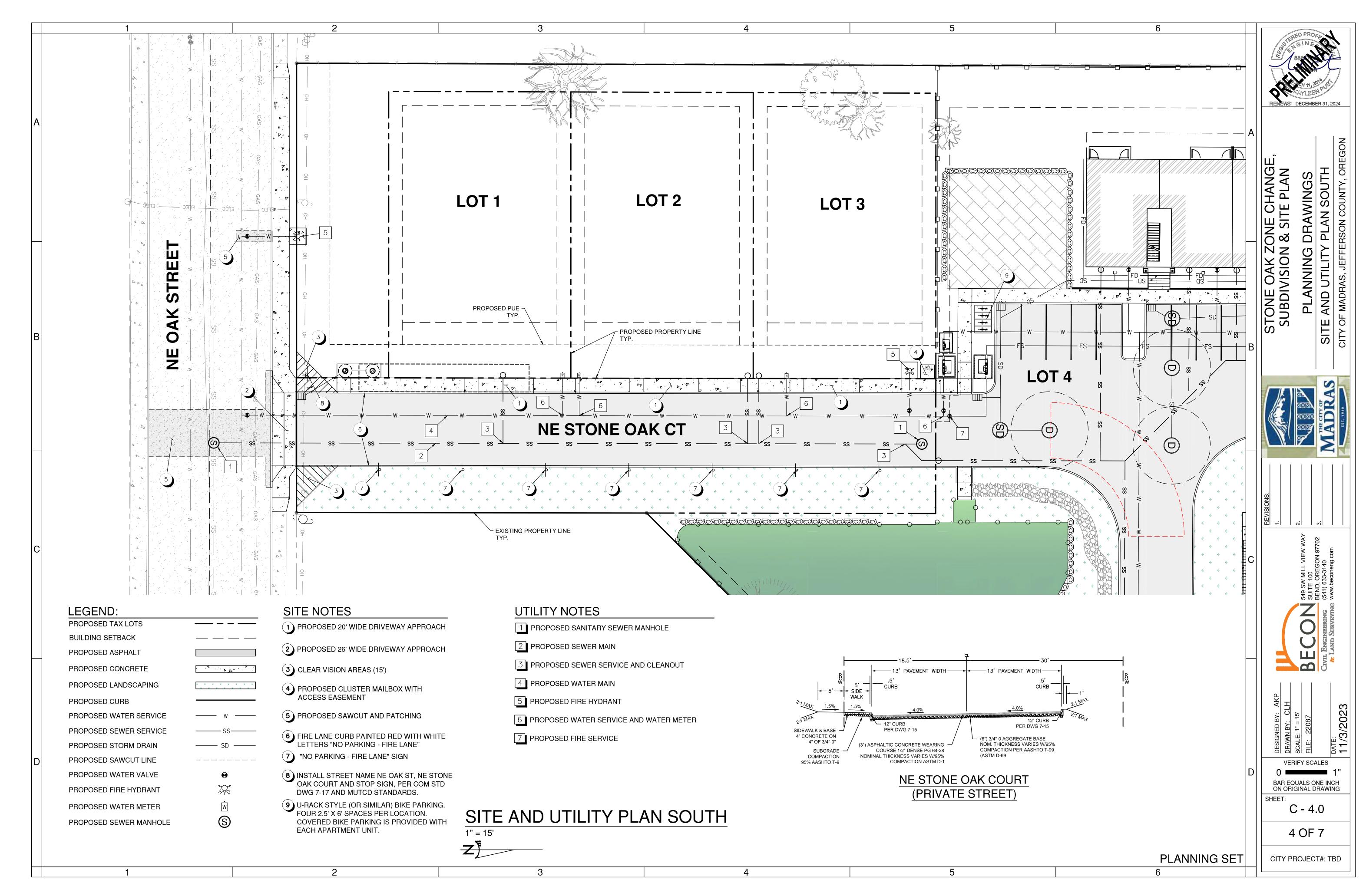
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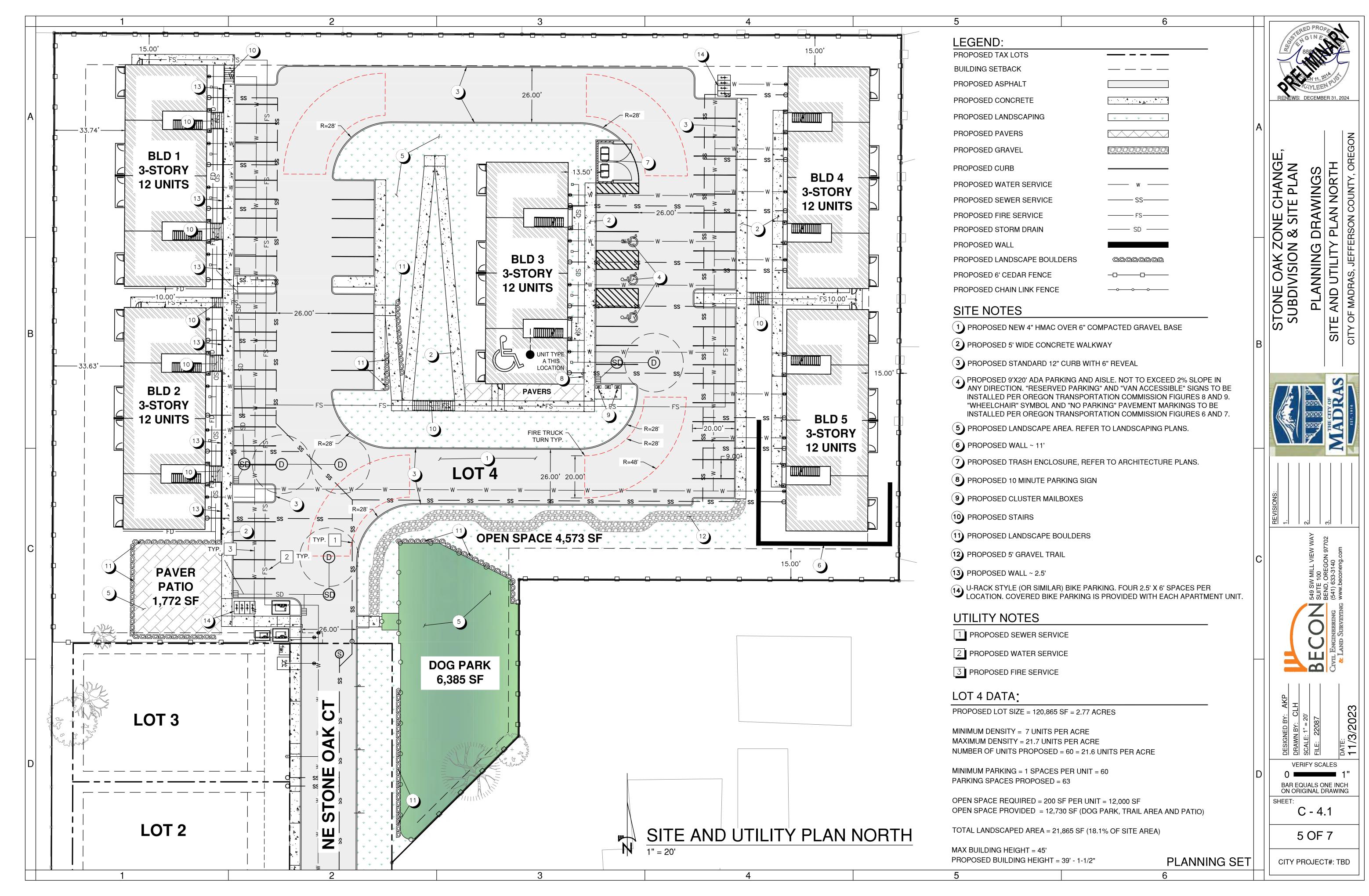
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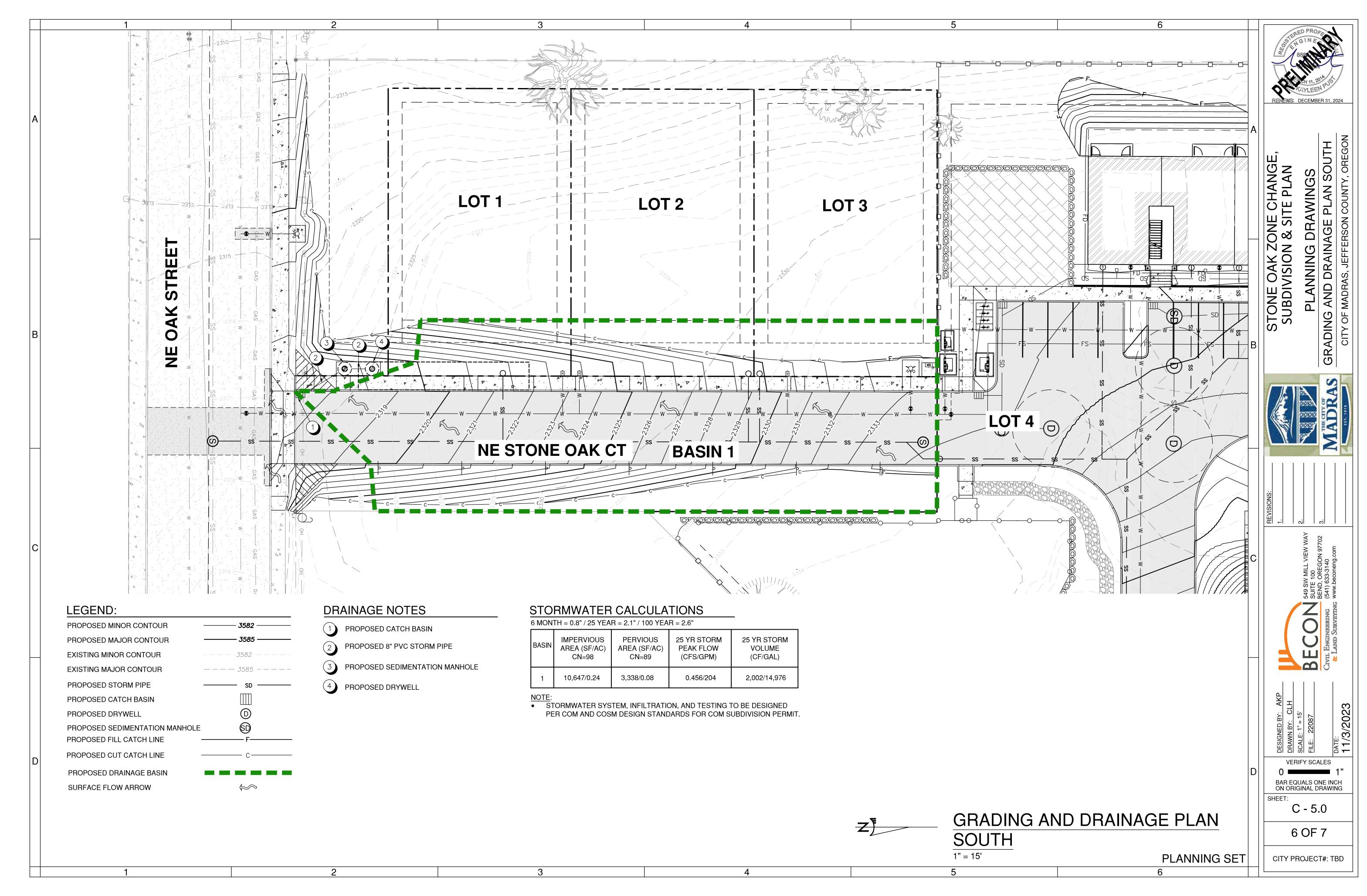
CITY PROJECT#: TBD

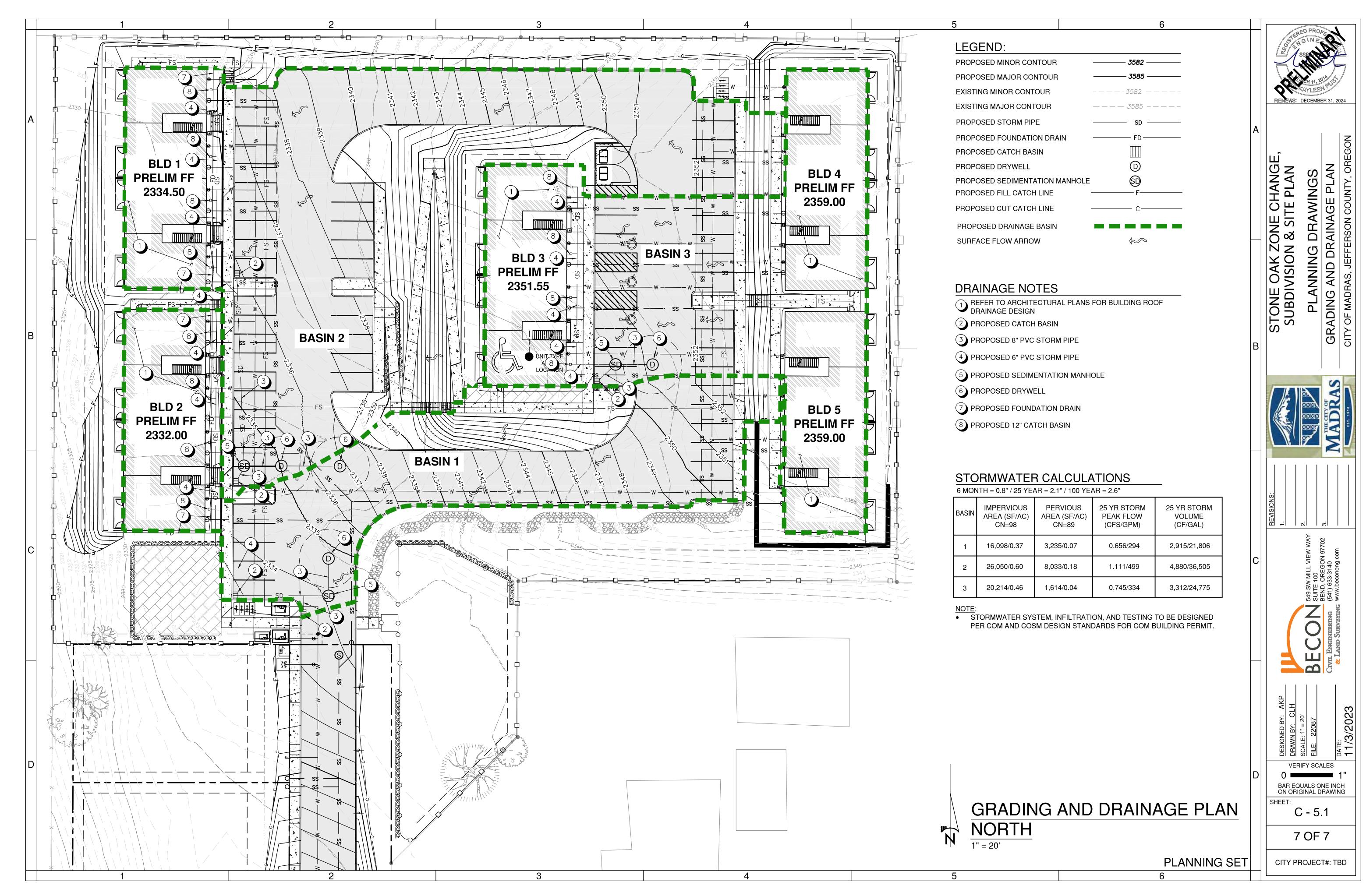


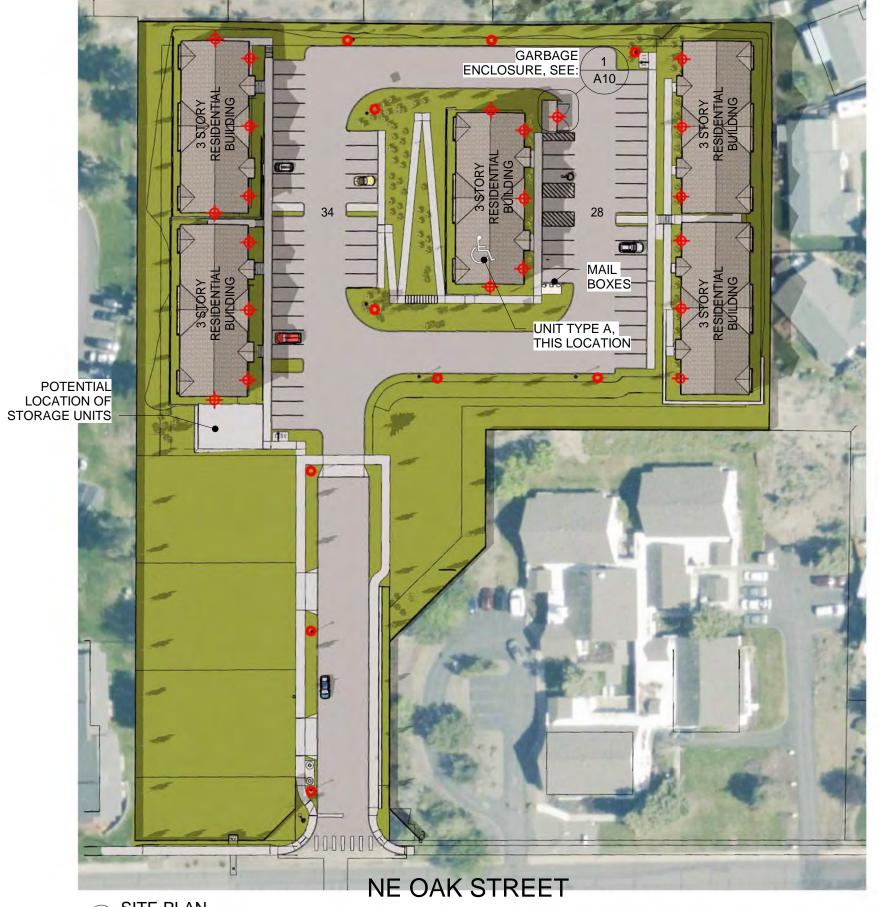












PROJECT STATISTICS:

60 UNITS

1 TYPE A UNIT

PARKING: 62 SPACES

SITE AREA: APPROX. 3.489 AC.

UNIT MIX WITH CURRENT CONFIGURATION*:

ONE BEDROOM: 16% (TYPICAL AREA 705 SF) TWO BEDROOM: 66% (TYPICAL AREA 850 SF) (TYPICAL AREA 995 SF) THREE BEDROOM: 16%

*UNIT MIX CAN CHANGE PER FLOOR TO INCREASE ONE AND TWO BEDROOM UNITS

LIGHTING LEGEND

◆ LED WALL PACK

PEDESTRIAN WALK POST MOUNTED LAMP

ARCHITECTURE INC **2958 NW 19TH STREET REDMOND, OREGON 97756** PH. 541.788.5234

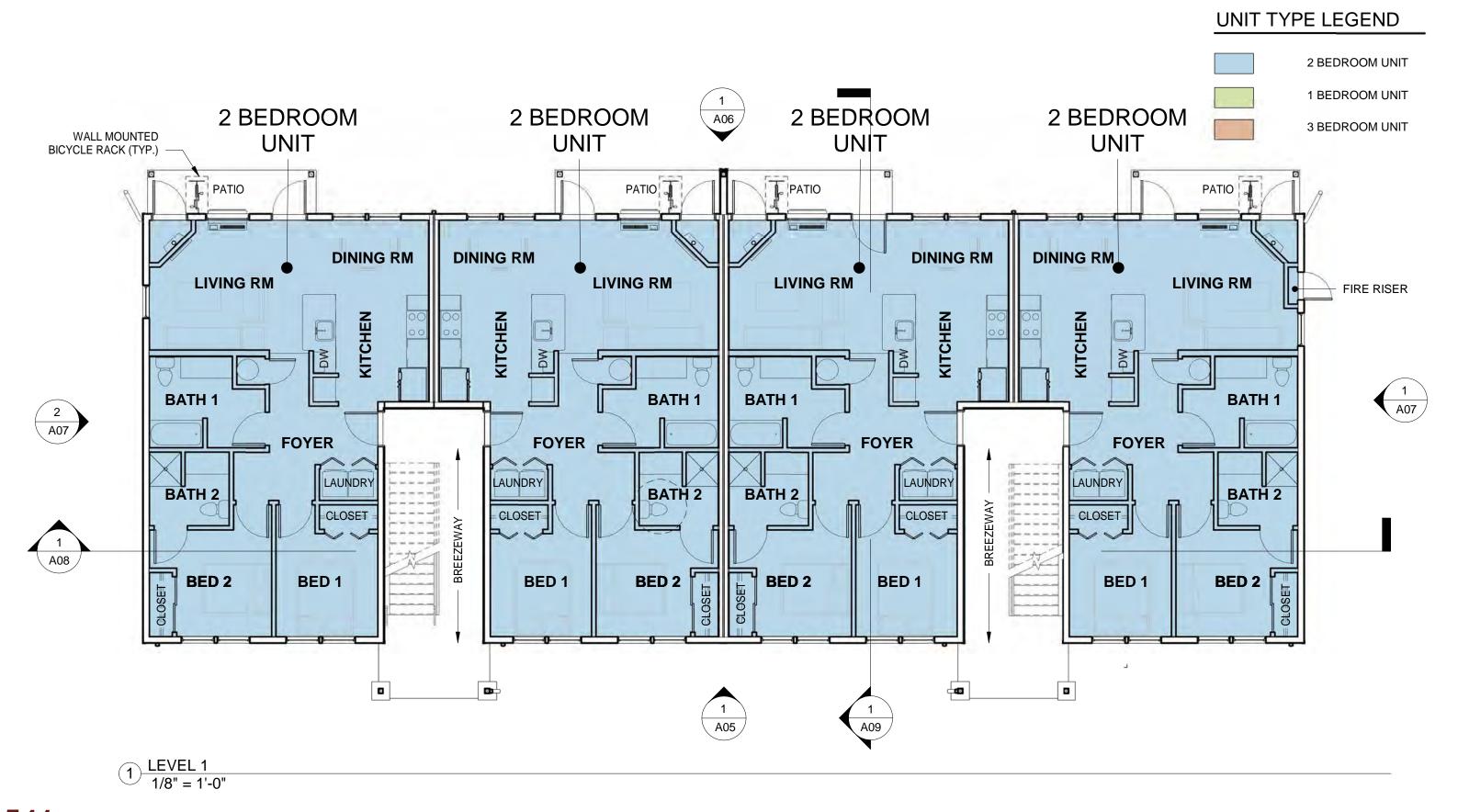
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SITE PLAN 1" = 60'-0"

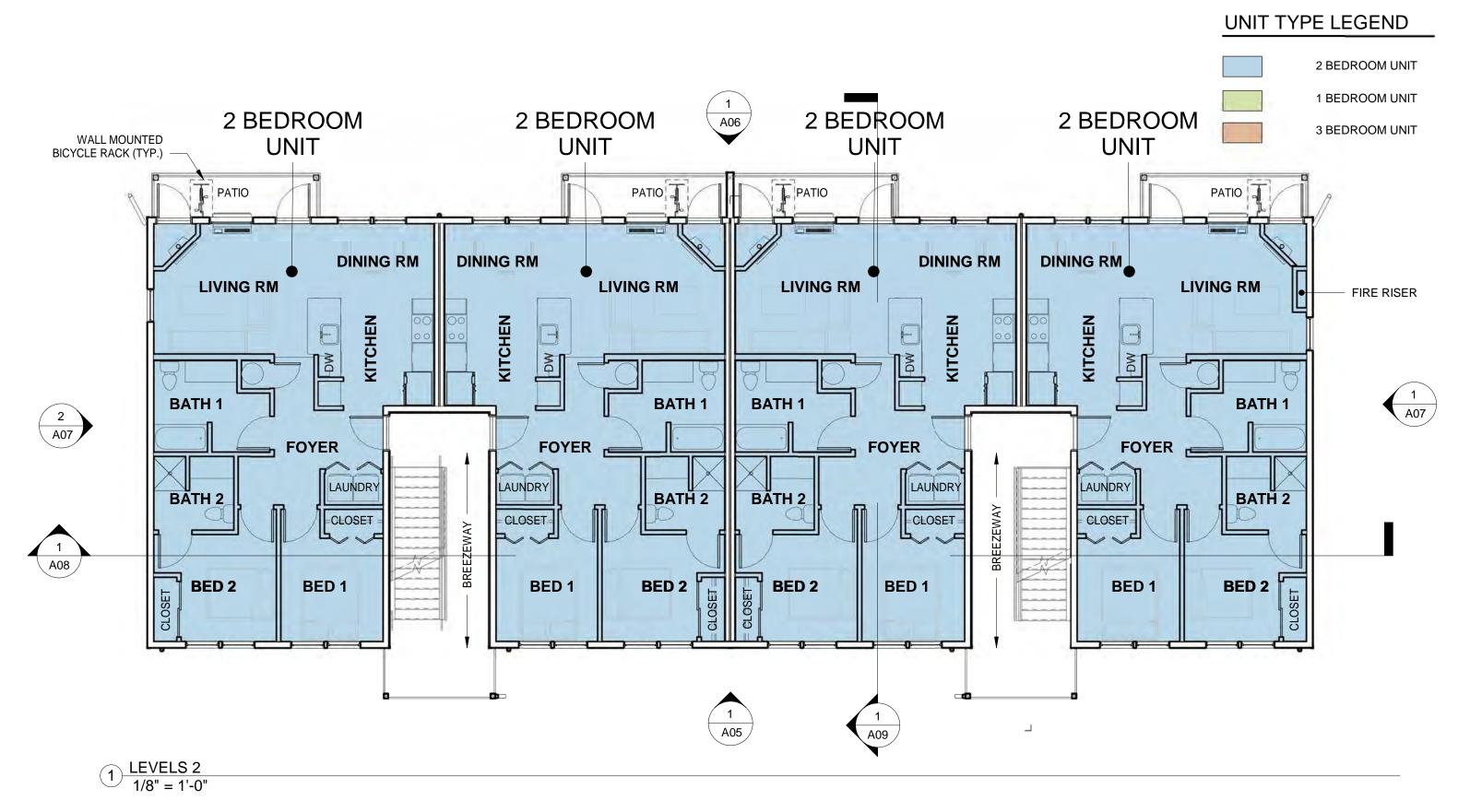
OAK STREET APARTMENTS

MADRAS, OREGON





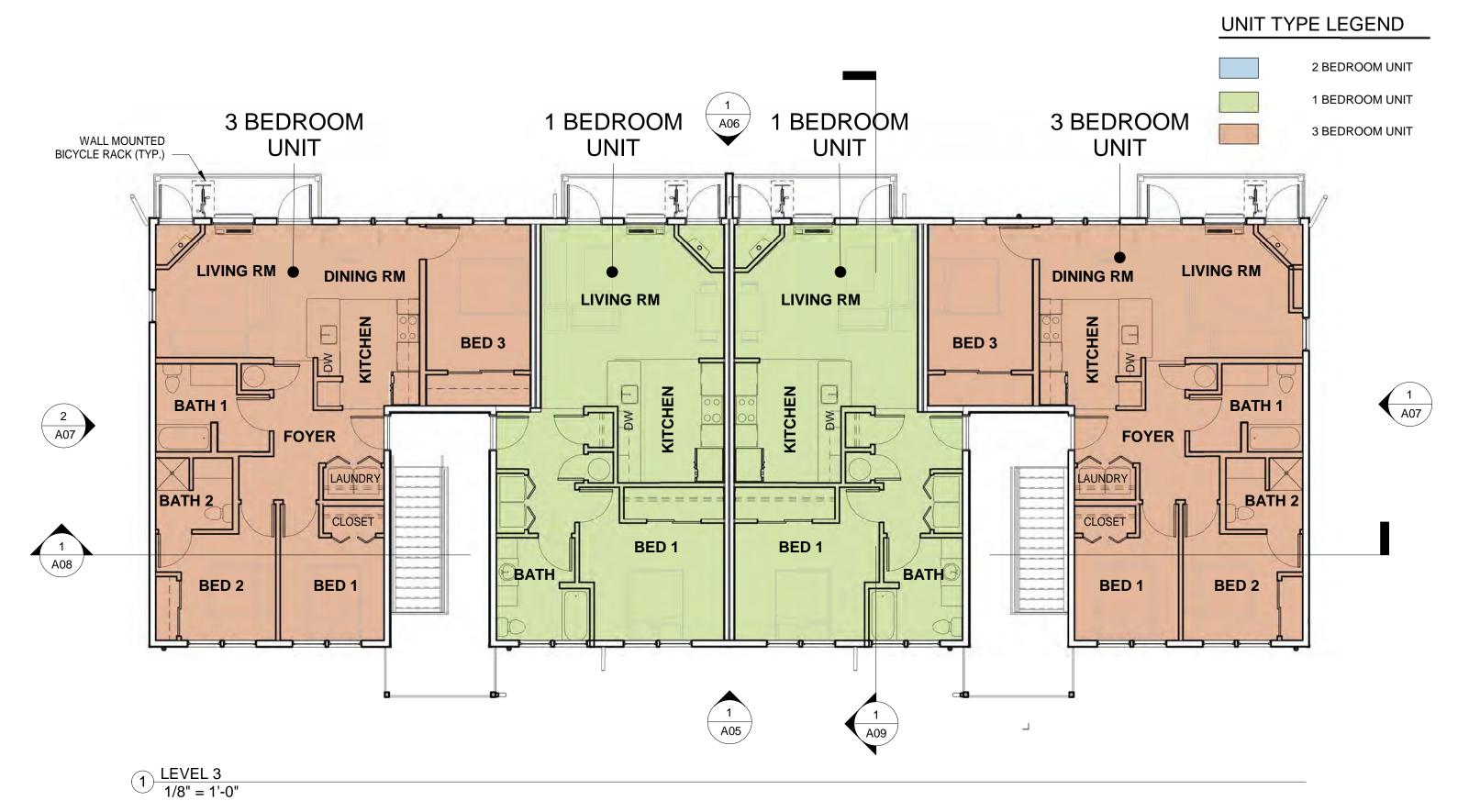
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INDICATES AREA OF PAINTED WOOD TRIM. COLOR: LIGHT GRAY



INDICATES AREA OF HORIZONTAL WOOD SHAKES EXPOSURE.



INDICATES AREA OF VERTICAL WOOD SIDING. NATURAL COLOR POLYURETHANE FINISH.



INDICATES AREA COMPOSITE SHINGLE ROOF.



INDICATES AREA OF HORIZONTAL WOOD SIDING 6" EXPOSURE.



SOUTH ELEVATION PRESENTATION

1/8" = 1'-0"

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OAK STREET APARTMENTS

MADRAS, OREGON



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INDICATES AREA OF HORIZONTAL WOOD SIDING 6" EXPOSURE.



1 NORTH ELEVATION PRESENTATION 1/8" = 1'-0"

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OAK STREET APARTMENTS

MADRAS, OREGON



INDICATES AREA OF PAINTED WOOD TRIM. COLOR: LIGHT GRAY



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INDICATES AREA COMPOSITE SHINGLE ROOF.



INDICATES AREA OF HORIZONTAL WOOD SIDING 6" EXPOSURE.



1 END ELEVATION 1/8" = 1'-0"

2 END ELEVATION 1/8" = 1'-0"

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OAK STREET APARTMENTS

MADRAS, OREGON

A07



1 BUILDING SECTION 1 1/8" = 1'-0"

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PH. 541.788.5234

UNIT TYPE LEGEND

2 BEDROOM UNIT

1 BEDROOM UNIT

3 BEDROOM UNIT



BUILDING SECTION 2
1/8" = 1'-0"



INDICATES AREA OF PAINTED WOOD TRIM. COLOR: LIGHT GRAY



INDICATES AREA OF HORIZONTAL WOOD SHAKES EXPOSURE.



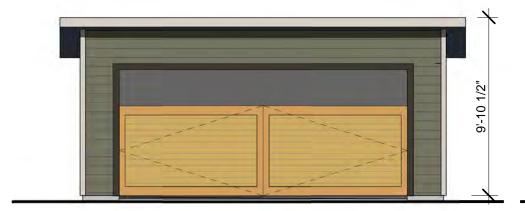
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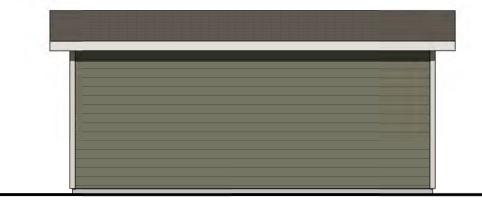


INDICATES AREA COMPOSITE SHINGLE ROOF.



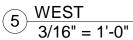
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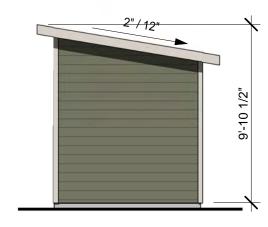


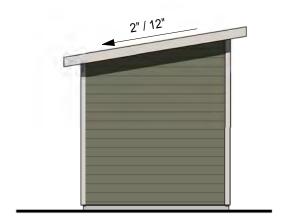


GARBAGE ENLOSURE ELEVATION -

GARBAGE ENLOSURE ELEVATION -







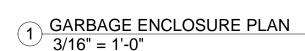
GARBAGE ENLOSURE ELEVATION -

NORTH

3/16" = 1'-0"

GARBAGE ENLOSURE ELEVATION -

3 SOUTH 3/16" = 1'-0"



3 A10

A10

GARBAGE

ENCLOSURE

SLOPE TO DRAIN

A10

10-0

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5 A10

541

OAK STREET APARTMENTS

MADRAS, OREGON

A10

09 11 23 Page 170 of 247



AERIAL VIEW LOOKING NORTHWEST

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AERIAL VIEW LOOKING NORTHEAST

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AERIAL VIEW LOOKING SOUTHEAST

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AERIAL VIEW LOOKING SOUTHWEST

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STREET VIEW LOOKING NORTHWEST

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STREET VIEW LOOKING NORTH

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REDMOND, OREGON 97756
PH. 541.788.5234

OAK STREET APARTMENTS

MADRAS, OREGON



STREET VIEW LOOKING EAST

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OAK STREET APARTMENTS

MADRAS, OREGON



Date: August 31, 2023

To: Nick Snead, City of Madras

From: Joe Bessman, PE

Project Reference No.: 1789

Project Name: Oak Street Multifamily Rezone

Transportation Impact Analysis



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EXECUTIVE SUMMARY

This Transportation Impact Analysis was prepared for the proposed Oak Street multifamily site in Madras, Oregon. The traffic study shows that the site layout conforms with City access, safety, and operational standards. The project includes connections to the surrounding pedestrian system, a new local street connection to NE Oak Street, and ample parking for residents and guests. There are no safety issues identified within the study area and the operational analysis shows that the study intersections will operate with low delays.

Introduction

This memorandum follows the submitted scoping materials for the Oak Street multifamily site, which is located in northern Madras on the north side of NE Oak Street just west of NE Hillcrest Street. Scoping materials were provided to the City on July 31st, but a formal response was not received at the time this Transportation Impact Analysis was prepared. Figure 1 illustrates the location of the 3.5-acre parcel for area context, which is tax lot 111301CA02203.



Figure 1. Site Vicinity Map. Source: Jefferson County GIS.

The current zoning is R-1, and the project includes rezoning the site from R-1 to R-3 to support a 60-unit multifamily project with three residential lots planned for single-family residential units (18-units per gross acre density). Adjacent development includes multifamily to the west (Crooked River Apartments), a senior living facility to the southeast (Chinook Place Memory Care and Assisted Living), and single-family uses to the north and northeast. The St. Charles Madras campus is situated due south of the project. The proposed site layout is shown in Figure 2.

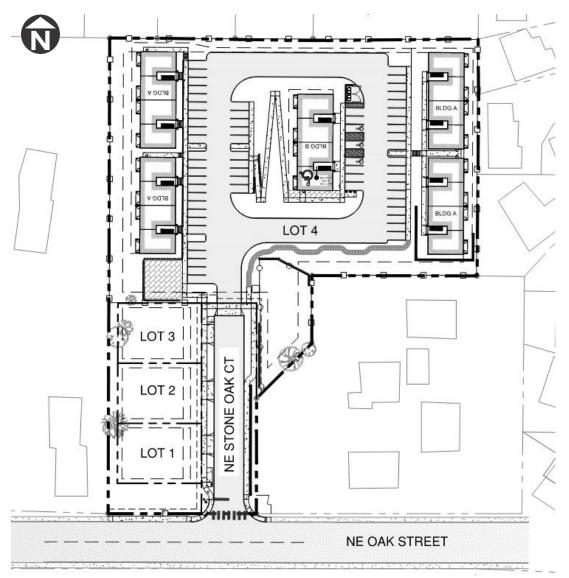


Figure 2. Preliminary Site Plan. Source: BECON Engineering. Dated 9/9/2022

Figure 2 shows that the property would obtain access from NE Oak Street with a local street extension to Lot 4. Each lot would be provided a private driveway access to this public local street ROW. Parking would occur with perpendicular parking throughout the multifamily site and typical driveway access to the single-family lots. A fire turn-around is provided within the looped northern parking area, and trash enclosures have been sited at the end of drive-aisles to facilitate truck access. A total of 71 parking stalls are shown to support the multifamily portion of the site (1.18 per unit), exceeding the City's requirements of one stall per unit. Each of the five multifamily buildings is a three-story structure with 12 units per building, and bicycle parking and common space (with amenities) are provided in the central courtyard.

EXISTING TRANSPORTATION INFRASTRUCTURE AND CONDITIONS

The primary roadways within the area that will be supporting the development include NE Oak Street, NE 12th Street, NE 10th Street, and NE 7th Street. The City of Madras' *Functional Classification Map* identifies the classification of each street as shown in Figure 3. Further descriptions of the characteristics of these roadways are included below:

- NE Oak Street, a *Minor Collector*, is oriented east-west connecting to US 97 on the west end and serving the St. Charles Madras Hospital and residential areas to the east. NE Oak Street is stubbed on the east end and is planned to be extended in the future to a Kinkade Road extension (Project R42) with a future connection to B street (Project R18). The existing cross-section varies throughout its length. It has a two-lane cross-section with bicycle lanes marked for the first block from US 97. Wide sidewalks are provided near US 97 that drop to no sidewalks on the south side and narrower property-tight sidewalks on the north side. Sidewalks are then provided intermittently throughout the rest of NE Oak Street, with more availability along more recently developed portions of the road. The existing sidewalks include both curb-tight and property-tight designs. Curb extensions and marked crosswalks are provided at the NE 12th Street/NE Oak Street intersection, which provides a pedestrian connection between the hospital and a dentist office as well as residential areas. The existing pavement width for most of NE Oak Street is approximately 44 feet, which narrows to approximately 34 feet east of NE 16th Street. The posted speed is 25 miles per hour.
- NE 12th Street is a *Local Street* connecting NE Oak Street to NE B Street. It has a two-lane cross-section with on-street parking and runs adjacent to the hospital. Sidewalks are only provided on the east side adjacent to the hospital. Marked pedestrian crossings are provided on the north end at NE Oak Street, at the NE 12th Street/NE A Street, and at the NE 12th Street/NE B Street intersection.
- NE 10th Street, a *Major Collector*, is generally oriented north-south and runs parallel to US 97 on the north end. It has an approximately 34-foot pavement width for most of its length and limited sidewalks. Portions of the road retain a rural character with no curbing or sidewalks. It is substantially improved on the north end at the intersection of NE Loucks Road where it widens to a three lane section, has striped bicycle lanes, and property-tight sidewalks with landscape strip on the west side.
- NE 7th Street is classified as a *Major Collector* from NE Oak Street south to SE I Street. A short segment of NE 7th Street from NE Oak Street to NE Henry Street is classified as a *Local Street*. South of NE Oak Street, NE 7th Street has two travel lanes and bicycle lanes. On-street parking is provided for nearly the whole length of the road while sidewalks are provided around the commercial core and adjacent to the Community Park.

Transit service includes curb-to-curb dial-a-ride service or regional transit service to Redmond or Warm Springs (where additional connections are provided) through the Community Connector Shuttles. Route 22 connects Redmond's Kalama Street transit hub with Terrebonne, Culver, Metolius, and Madras, with the Madras stop located at SW 3rd Street and SW E Street, west of US 97. Currently, all CET fare collection is suspended until further notice (with exception of recreational routes).

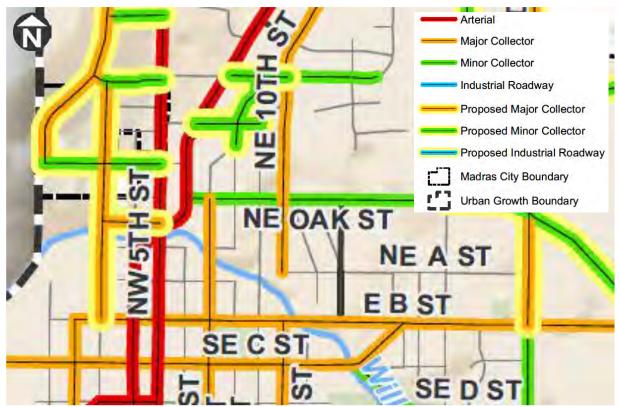


Figure 3. City of Madras Functional Classification Map. Source: Madras Transportation System Plan.

Roadway and Intersection Crash History

A review was conducted of historical crashes surrounding this area based on information provided within ODOT's Crash Analysis and Reporting System database for the most recent five-year period available, which spans from January 2017 through December 2021. Crashes required for reporting to the DMV must involve at least one motor vehicle, result in more than \$1,500 in property damage (increased to \$2,500 in 2018), or any level of personal injury.

Table 1 summarizes the number and severity of reported crashes at each of the study area intersections. The table also provides a crash rate per million entering vehicles, which is often used to assess whether a geometric or traffic control deficiency is present when the crash rate is greater than 1.0 per million entering vehicles. ODOT also provides crash rates separated by control type and the number of approaches, which better distinguish between varying intersection forms and are provided for reference.

Table 1. Crash Summary

	Number of	Crasl	n Severity	Cras	h Type	Crash Rate	ODOT 90 th
Intersection	Crashes	Injury	Non-Injury	Angle	Sideswipe	per MEV	% Rate
1: NE 7 th St/ NE Oak St	3	2	1	2	1	0.41	4ST: 0.408 <i>Urban</i>
2: NE 10 th St/ NE Oak St	0	0	0	0	0	0.00	4ST: 0.408 <i>Urban</i>
3: NE 12 th St/ NE Oak St	0	0	0	0	0	0.00	3ST 0.293 <i>Urban</i>
4: NE Oak St/ Site Access	0	0	0	0	0	0.00	3ST 0.293 <i>Urban</i>

4ST: Four-legged stop-controlled

As shown in Table 1, there were no reported collisions on NE Oak Street between NE 8th Street and NE Hillcrest Street during the five-year period.

There were three reported crashes at or in the vicinity of the NE 7th Street/NE Oak Street intersection. This resulted in a crash rate of 0.41, which is slightly higher than the 90th percentile rate for similar intersections but provides a low overall crash frequency within a low-volume street. Further details on each of the reported crashes are provided below.

- An angle collision occurred at 5:00 p.m. on January 22, 2020 between a northbound through vehicle and a westbound through vehicle. The crash was attributed to the northbound vehicle not yielding the right-of-way and resulted in possible injury (Injury "A").
- A sideswipe-overtaking crash occurred on November 18, 2020 at 2:00 p.m. just west of the intersection. It involved an eastbound vehicle attempting to pass another eastbound vehicle. It resulted in property damage only.
- On September 23, 2021 at 7:00 a.m. an angle collision occurred between a westbound through vehicle and a southbound through vehicle. It resulted in suspected minor injuries (Injury "B").

No patterns were noted amongst the reported crashes. Field review did not identify any deficiencies within the area related to traffic control, signage, or other conditions.

Intersection Sight Distance

The proposed Oak Street multifamily development will connect to NE Oak Street along a straight and rolling roadway section that climbs towards the east and into the site as it extends north. Sight distance information and requirements are based on the standard reference *A Policy on Geometric Design of Highways and Streets, 7th Edition* published by the American Association of State Highway and Transportation Officials (AASHTO) in 2018, commonly referred to as the *Green Book*. Intersection sight distance was reviewed at the proposed roadway connection to ensure that the route into the site can adequately support the recommended sight lines.

For minor-street stop-control intersections, intersection sight triangles are based on guidance cited within Conditions B1 (left-turn from minor road) and B2 (right-turn from minor road) of the *Green Book*. All distances are measured from a vertex point located 14.5 feet from the major-road travel way along the center of the approaching travel lane, accounting for comfortable positioning distance from the travel way (6.5 feet) and the distance from the front of the vehicle to the driver eye (8.0 feet). The assumed eye

height is 3.5 feet above the departing road for passenger vehicles. The object height is also 3.5 feet above the major road, providing enough space on the approaching vehicle to recognize it. Based on a posted speed of 25 mph and a minor road approach that has less than a 3% grade, Figure 4 illustrates the recommended intersection sight distance measurements required at the roadway connection to NE Oak Street.

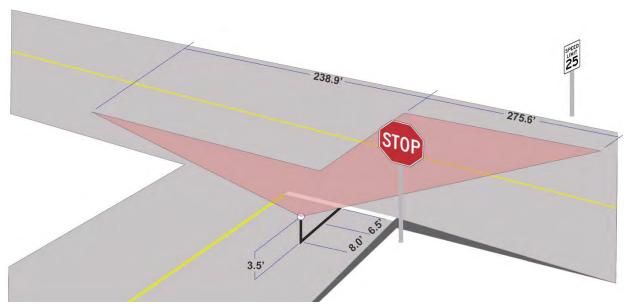


Figure 4. Recommended Intersection Sight Distance Dimensions.

Figures 5 and 6 illustrate the current sight lines onto NE Oak Street. These figures show that clear and unobstructed sight lines are present today, but grading will be required along the entry given the steeply graded site. The embankments should be graded to maintain the sight line dimensions identified in Figure 4.



Figure 5. View on NE Oak Street to the east. Photo date: August 30, 2023.



Figure 6. View on NE Oak Street to the west. Photo date: August 30, 2023.

Traffic Counts

Traffic counts were collected on NE Oak Street at NE 7th Street, NE 10th Street, and NE 12th Street on August 9th, 2023, and included both morning and evening data. The counts reflect peak summer traffic volumes. The data indicates that NE Oak Street carries about 100 to 200 vehicles in the morning peak (7:45 to 8:45 a.m.) and between 150 to 350 trips in the evening peak hour (4:50 to 5:50 p.m.). The higher volumes occur on the west end closer to US 97, which is the predominant travel direction for most of the residential trips. The highest pedestrian crossing activity occurred at the NE 12th Street/NE Oak Street intersection. During the weekday a.m. peak, 12 pedestrians were recorded crossing NE Oak Street toward the St Charles Madras Campus. No crossing pedestrians were observed at this intersection during the p.m. peak. The resulting peak hour vehicle traffic volumes are provided in Figure 7.

Traffic Operations

Traffic operations analysis was prepared using the HCM 6th Edition methodology and Synchro analysis software at the study intersections. The inputs included data from the traffic counts, such as pedestrians, cyclists, trucks, and passenger vehicles within the peak hour. All traffic operations within this report reflect peak fifteen-minute conditions.

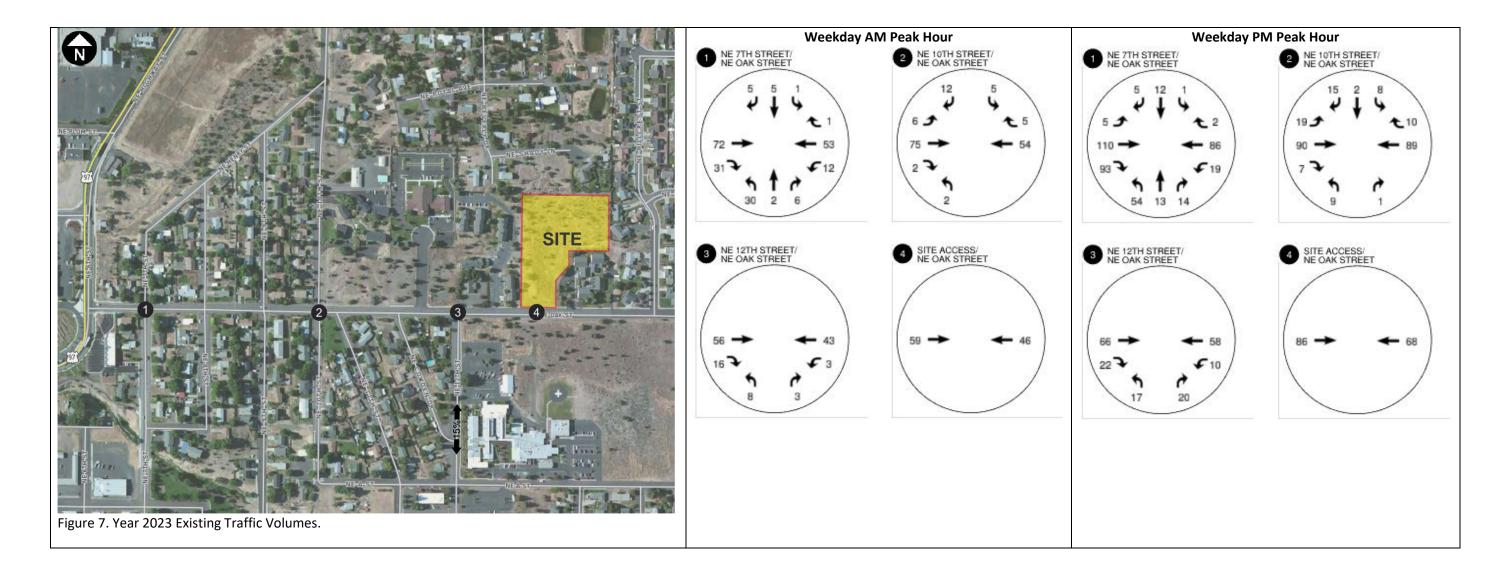
The City of Madras Municipal Code 18.25.180(2)(i) and (j) contain the City operational requirements for intersections. Performance standards in the City of Madras vary based on intersection control type. For unsignalized intersections, the minimum acceptable level of service for the critical movement is LOS E or LOS F with a "demand-to-capacity" (d/c) ratio of 0.95 or less. In an article titled, "The 24-Hour Capacity Framework: An Alternative to Using the Peak Hour to Design Roads," the authors report that the "Hourly demand-to-capacity ratio allows practitioners to assess whether demand exceeds capacity at any time during the day and, if so, for how long." For the purposes of this analysis a volume-to-capacity (v/c) ratio is reported for the weekday a.m. and p.m. peak hours, which recognizes that all of the travel demands on this corridor are being met.

The resultant traffic operations are summarized in Table 2, showing that all study intersections operate well today with very little queuing and delays.

https://www.kittelson.com/ideas/the-24-hour-capacity-framework-an-alternative-to-using-the-peak-hour-to-design-roads/#:~:text=Hourly%20demand%2Dto%2Dcapacity%20(,if%20so%2C%20for%20how%20long.

Table 2. Year 2023 Existing Transportation Conditions, Design Hour Conditions

			,		
Intersection	Performance Standard	Level of Service	Delay (s)	v/c Ratio	Queue (ft)
		Weekday AN	M Peak Hour		
1: NE 7 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS B	NB: 10.0	NB: 0.06	NB: 25 ft
2: NE 10 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS A	NB: 9.6	NB: 0.01	NB: 0 ft
3: NE 12 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS A	NB: 9.2	NB: 0.02	NB: 25 ft
4: NE Oak St/ Site Access	v/c ≤ 0.95				
		Weekday PN	Л Peak Hour		
1: NE 7 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS B	NB: 11.6	NB: 0.14	NB: 25 ft
2: NE 10 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS B	NB: 10.7	NB: 0.02	NB: 25 ft
3: NE 12 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS A	NB: 9.4	NB: 0.06	NB: 25 ft
4: NE Oak St/ Site Access	v/c ≤ 0.95				



YEAR 2027 BACKGROUND TRAFFIC CONDITIONS

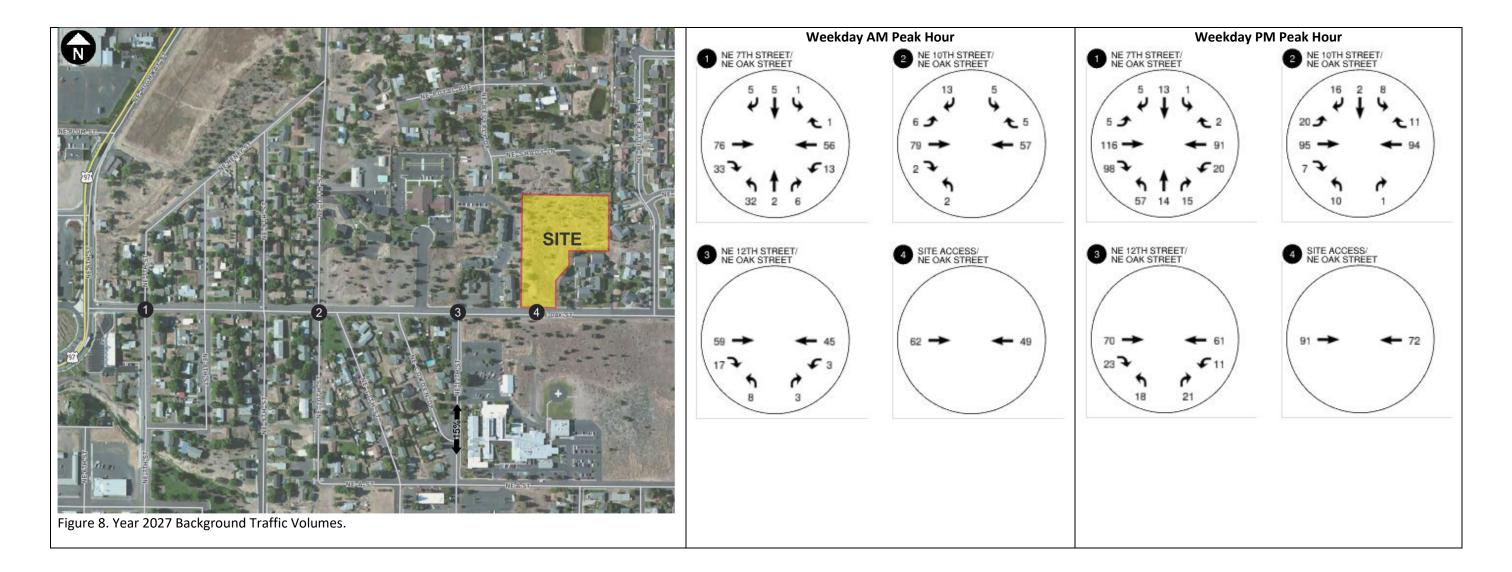
The background traffic conditions assessment describes conditions in the study area without the proposed multifamily development. This scenario was developed through application of a 1.4% cumulative annual growth rate to the 2023 existing volumes, consistent with the value applied within the City's adopted TSP². The resulting volumes are depicted in Figure 8.

No planned/funded projects were identified that would impact the study area intersections along NE Oak Street; it is expected that all lane configurations and traffic control will remain in their current configuration. Table 3 summarizes the operational analysis of this scenario, which shows that all study intersections will continue to operate acceptably in the future.

Table 3. Year 2027 Background Transportation Conditions, Design Hour Conditions

	Performance				
Intersection	Standard	Level of Service	Delay (s)	v/c Ratio	Queue (ft)
		Weekday Al	И Peak Hour		
1: NE 7 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS B	NB: 10.1	NB: 0.06	NB: 25 ft
2: NE 10 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS A	NB: 9.7	NB: 0.01	NB: 0 ft
3: NE 12 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS A	NB: 9.3	NB: 0.02	NB: 25 ft
4: NE Oak St/ Site Access	v/c ≤ 0.95				
		Weekday PN	Л Peak Hour		
1: NE 7 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS B	NB: 11.9	NB: 0.15	NB: 25 ft
2: NE 10 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS B	NB: 10.9	NB: 0.02	NB: 25 ft
3: NE 12 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS A	NB: 9.5	NB: 0.06	NB: 25 ft
4: NE Oak St/ Site Access	v/c ≤ 0.95				

² The preparation of the City's TSP included a 30% Citywide growth rate to increase 2016 traffic counts to a forecast year of 2035, equating to 1.4% cumulative annual growth. Application of this same growth rate to 2027 (4 years) equates to a total growth rate of 5.7%.



PROPOSED DEVELOPMENT PLAN

The proposed plans for the site include five multifamily buildings located on the north side of the site to accommodate 60 units and three single family homes on the south end of the site adjacent to a new local street connection to NE Oak Street. Access to the site will be through the single access to NE Oak Street.

Trip Generation

Trip generation estimates were prepared based on national data within the Institute of Transportation Engineers' standard reference *Trip Generation, 11th Edition.* This reference provides cordon-area trip generation surveys of similar uses throughout the US. For the subject site located in the northern portion of Madras the *General Urban/Suburban* data has been applied. The site is currently undeveloped, and the proposed uses within Lot 4 will be best classified using ITE's Multifamily Housing (Low-Rise) classification as the apartments will provide less than four stories of living space.

ITE Land Use 220: Multifamily Housing (Low-Rise): Low-rise multifamily housing includes apartments, townhouses, and condominiums located within the same building with at least three other dwelling units and that have two or three floors (levels). Various configurations fit this description, including walkup apartment, mansion apartment, and stacked townhouse.

- A walkup apartment typically is two or three floors in height with dwelling units that are accessed by a single or multiple entrances with stairways and hallways.
- A mansion apartment is a single structure that contains several apartments within what appears to be a single-family dwelling unit.
- A fourplex is a single two-story structure with two matching dwelling units on the ground and second floors. Access to the individual units is typically internal to the structure and provided through a central entry and stairway.
- A stacked townhouse is designed to match the external appearance of a townhouse. But, unlike a townhouse dwelling unit that only shares walls with an adjoining unit, the stacked townhouse units share both floors and walls. Access to the individual units is typically internal to the structure and provided through a central entry and stairway.

The single-family homes on the south side of the site can best be classified as ITE's Single-Family Detached Housing classification.

ITE Land Use 210: Single-Family Detached Housing: A single-family detached housing site includes any single-family detached home on an individual lot. A typical site surveyed is a suburban subdivision.

Table 4 provides the estimated trip generation for the proposed development. Note that ITE's average rate equations were applied to this housing type consistent with typical City practice. While the fitted curve equation provides a fairly high R² coefficient (0.84), the y-intercept value skews the resultant trip rate for a development of this small scale.

Table 4. Trip Generation Estimates (ITE 11th Edition, General Urban/Suburban Area Classification)

Table 41 IIIp delicial	OII ESCIII	14100 (1112		i, Cenerai e	or warry care	#1 G 11 7 11 G 1	u ciussiiicu	,	
			Weekday	Weekd	ay AM Peak	k Hour	Weeko	lay PM Pea	k Hour
Land Use	ITE Code	Size	Daily Trips	Total	In	Out	Total	In	Out
Multifamily Housing (Low-Rise) ITE Average Trip Rate	220	60 Units	404 (6.74/Unit)	24 (0.40/Unit)	6 24%	18 76%	31 (0.51/Unit)	19 63%	12 37%
Single-Family Detached Housing ITE Average Trip Rate	210	3 Units	28 (9.43/Unit)	2 (0.70/Unit)	1 25%	1 75%	3 (0.94/Unit)	2 63%	1 37%
Total		63 Units	432	26	7	19	34	21	13

As shown in Table 4, the proposed development is expected to generate less than 500 weekday daily trips but more than 25 peak hour trips. In addition, as the proposed development includes a rezone from R-1 to R-3, the study will also require compliance with the Transportation Planning Rule provisions for Plan and Land Use Regulation Amendments (OAR 660-012-0060) as separately addressed within this report.

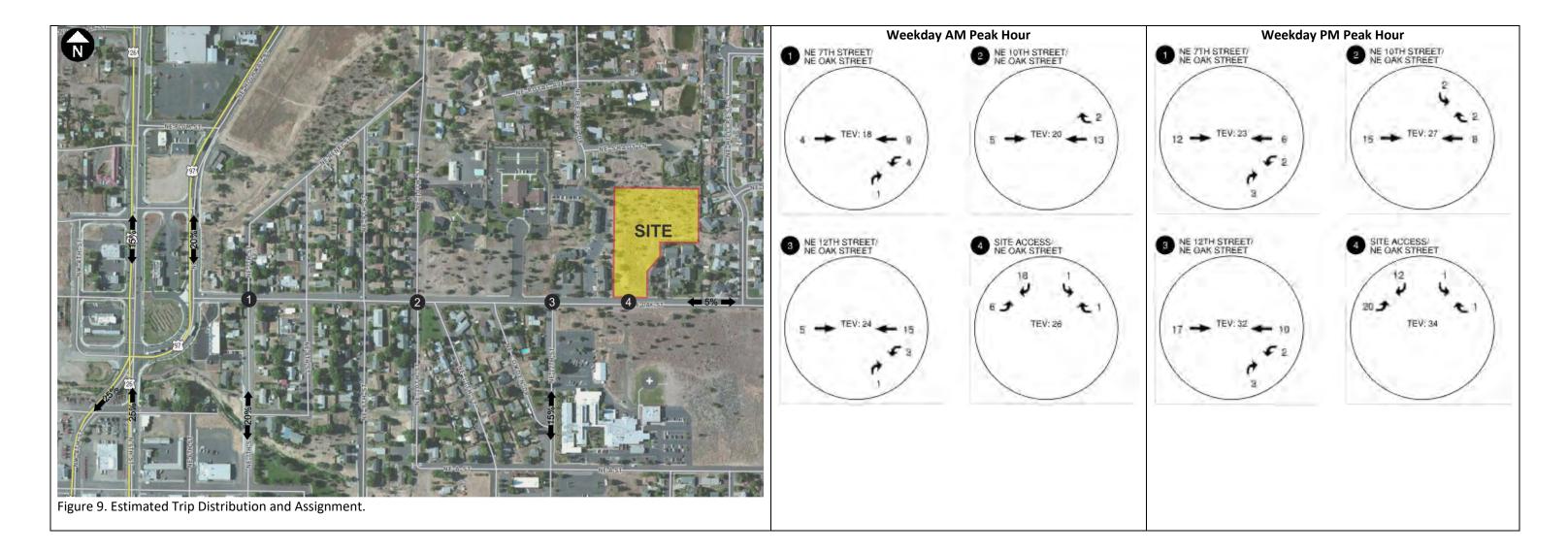
Trip Distribution and Trip Assignment

The estimated trip distribution pattern was prepared based on the location of the site relative to non-residential trip attractions within the City of Madras, with most travel oriented toward the US 97 corridor for access to employment opportunities and commercial services. The estimated trip distribution is shown in Figure 9. Based on the estimated trip generation shown in Table 4, site-generated trips were then assigned to the transportation system based on the distribution patterns. The resultant trip assignment for the weekday a.m. and p.m. peak hours is also provided in Figure 9.

PROJECT STUDY AREA

The study area for this Transportation Impact Analysis was prepared based on review of the City's TIA Guidelines and the materials submitted as part of the scoping process. City of Madras' TIA guidelines identify that a TIA is required when:

- (i) The development generates fifty (50) or more peak hour trips or five hundred (500) or more daily trips.
- (ii) An access spacing exception is required for the site access driveway(s) or access is proposed from an arterial or collector street.
- (iii) The development is expected to impact intersections that are currently operating at the upper limits of the acceptable range of level of service during the peak operating hour.
- (iv) The development is expected to significantly impact adjacent roadways and intersections that have previously been identified as high accident locations or areas that contain a high concentration of pedestrians or bicyclists such as school zones.
- (v) Otherwise as determined by the Public Works Director.



While the trip generation does not meet the City's thresholds for requiring a TIA, the multifamily development is proposed to have access via a new local street to Oak Street, a *Minor Collector*. Thus, a TIA is required under 18.25.180(1)(a)(ii) of the City's TIA requirements. Additionally, the TIA requirements indicate that "The transportation impact analysis should always address the weekday a.m. and p.m. peak hours when the proposed land use action is expected to generate twenty-five (25) trips or more during the peak time periods." As this development is expected to exceed this threshold during the a.m. and p.m. peak hour, study of both time periods is required.

The City's TIA guidelines indicate that the study area should include site access intersections as well as the extension beyond these points in conformance with the access spacing standards. The proposed multifamily development includes an access onto NE Oak Street (designated as a *Minor Collector*), and the City's access spacing standards for this facility are 200 feet for public connections and 50-feet for private driveways per Table 7 of the City's adopted Transportation System Plan. The study guidelines also state that "Beyond the minimum study area, the transportation impact analysis should evaluate all intersections that receive site-generated trips that make up at least 10% or more of the total intersection volume. In addition to these requirements, the Public Works Director (or his/her designee) shall determine any additional intersections or roadway links that might be adversely affected as a result of the proposed development."

The proposed development includes a rezone (with concurrent site plan), and the rezone section of this application shows that the proposed development is below the development potential of the existing zoning and therefore complies with the TPR (this analysis was provided in the scoping letter and is included in a later section in this report). The City of Madras' traffic study guidelines do not reflect the Clear and Objective requirements applicable to needed housing as defined by Oregon Revised Statute 197.307. Based on the trip assignment shown in Figure 9 and City requirements, the following intersections are included as *Study Intersections* within this report.

- NE 7th Street/NE Oak Street
- NE 10th Street/NE Oak Street
- NE 12th Street/NE Oak Street
- NE Oak Street/Site Access

The inclusion of these locations extends beyond the City's *Minor Collector* access spacing standards (200-feet for a public street) but captures key City intersections and their impacts on Oak Street traveling toward the highway system. In both the morning and evening peak hours the impact to ODOT facilities is less than half the analysis threshold, so study of these intersections is not required or included in this report.

ACCESS SPACING

The City of Madras contains access spacing requirements within Table 7 of its adopted Transportation System Plan. As separately identified, NE Oak Street is a *Minor Collector*, with an access spacing standard of 200 feet between public streets and 50 feet between private access points. These access spacing dimensions will be met with the proposed plan, with approximately 90-feet of access spacing provided to the east and 250 feet of spacing toward the west.

YEAR 2027 BUILD-OUT OPERATIONS ANALYSIS

The proposed multifamily development is estimated to be complete by 2027. There are no changes to the surrounding infrastructure planned with this project, outside of frontage improvements.

This traffic volume scenario was developed by adding the Year 2027 "No Build" traffic volumes with the site-generated trips from the proposed development. The resultant traffic volumes are shown in Figure 10, and the traffic operations analysis is shown in Table 5. As shown, all study intersections continue to operate acceptably with very little delays or queuing with the proposed development.

Table 5. Year 2027 With Project Transportation Conditions, Design Hour Conditions

			, ,		
Intersection	Performance Standard*	Level of Service	Delay (s)	v/c Ratio	Queue (ft)
		Weekday AN	Л Peak Hour		
1: NE 7 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS B	NB: 10.3	NB: 0.07	NB: 25 ft
2: NE 10 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS A	NB: 9.9	NB: 0.01	NB: 0 ft
3: NE 12 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS A	NB: 9.4	NB: 0.02	NB: 25 ft
4: NE Oak St/ Site Access	v/c ≤ 0.95	SB: LOS A	SB: 8.7	SB: 0.03	SB: 25 ft
		Weekday PN	Л Peak Hour		
1: NE 7 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS B	NB: 12.2	NB: 0.16	NB: 25 ft
2: NE 10 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS B	NB: 11.2	NB: 0.02	NB: 25 ft
3: NE 12 th St/ NE Oak St	v/c ≤ 0.95	NB: LOS A	NB: 9.7	NB: 0.07	NB: 25 ft
4: NE Oak St/ Site Access	v/c ≤ 0.95	SB: LOS A	SB: 8.9	SB: 0.02	SB: 25 ft

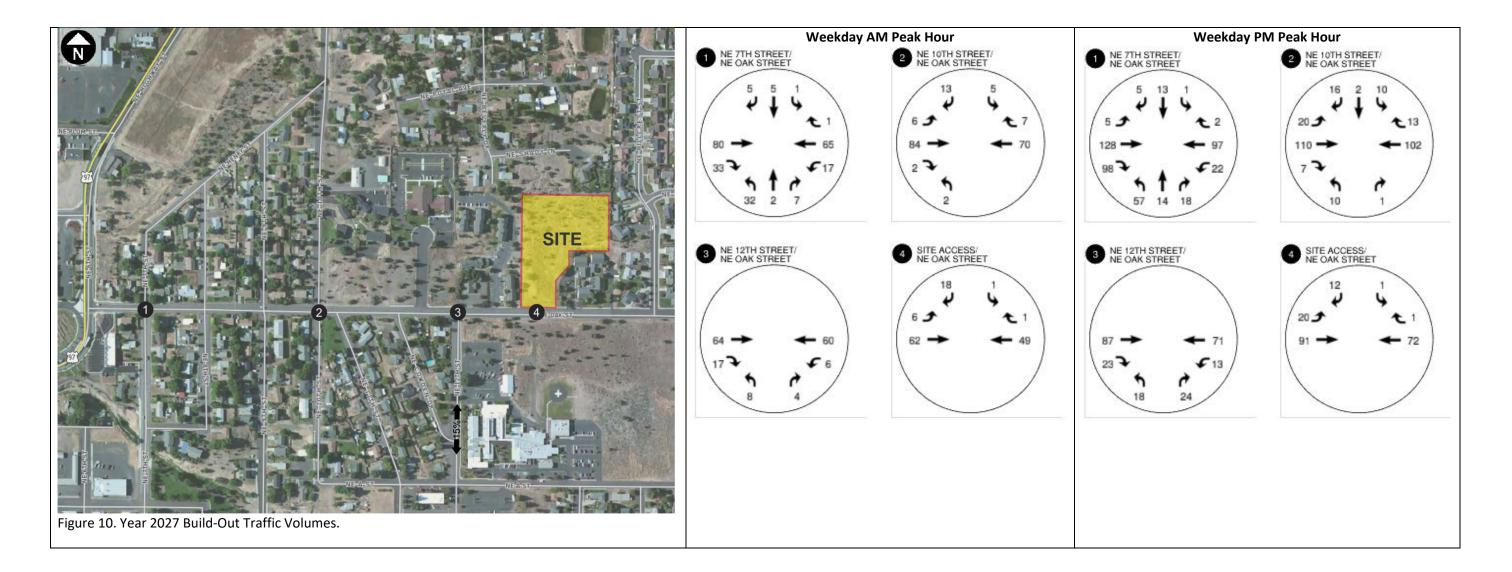
SITE CIRCULATION

The proposed site layout contains an intuitive design with perpendicular parking throughout. Upon entering the site by automobile, residents of lots 1 through 3 can access homes directly from the new local street. Residents of lot 4 can continue directly into the multifamily portion of the site. The site has a simple circulation plan with an open space in the middle and the drive aisle and parking around it. The internal looped area provides 26-foot wide drive aisles and sidewalks throughout.

STREET CROSS SECTION

The City's street standards are contained within the *Public Improvement Design and Construction Standards*. Typical standards for *Minor Collectors* include 60 feet of right-of-way with two 12-foot travel lanes, sidewalks, landscape strip, and optional on-street parking. The site has approximately 160 feet of

frontage on NE Oak Street. Along the site frontage there is already curbing in place and existing sidewalks are located adjacent to the site on both sides. The existing right-of-way is approximately 60 feet meeting City standards. As part of frontage improvements, the proposed multifamily development will build sidewalks and provide a landscape strip on NE Oak Street.



Typical standards for *Local Streets* include 55 feet of right-of-way with a 32-foot paved width, sidewalks, on-street parking, and landscape strip. The approximately 275-foot long new local street into the site should be built to this standard.

TRANSPORTATION PLANNING RULE COMPLIANCE

The proposed development includes a rezone from Moderate Density Residential (R-1) to Planned Residential Development (R-3), with the application including submittal of a concurrent site plan application. This effectively allows the comparative TPR scenarios to "cap" the development potential of the site with these proposed plans. The long-range (2040) analysis scenario would not assess the impact of the proposed development, but rather the comparative increase in trips between the existing R-1 zoning and the proposed site plan.

The existing R-1 zoning designation allows single-family homes, townhomes, cottages and apartments, with various limitations on these uses:

- Single-family lots are permitted on lots with a minimum size of 5,000 square-feet. ADUs are permitted on each single-family lot.
- Townhomes are permitted, but subject to density requirements permitting no more than three units on a 5,000 square-foot lot and four units on a 7,500 square-foot lot.
- Apartment units are permitted in the R-1 zoning, with no more than four units per structure and no more than 24 total units per site.

Based on these provisions, the R-1 zoning could allow 30 separate lots that are 5,000 square-feet each, with 3 townhomes per lot (assuming the geometry of the lot would support this type of design). Trip generation estimates for this theoretical "maximum density" development are presented in Table 6 for the weekday p.m. peak period only (consistent with the City's adopted Transportation System Plan).

Table 6. Maximum Density R-1 Development Scenario

			Weekday	Weekd	ay PM Peak	Hour
Land Use	TTE Code	Size	Daily Trips	Total	In	Out
Single-Family Attached Housing ITE Average Trip Rate	215	Up to 90 Units	648 (7.20/Unit)	51 (0.57/Unit)	30 59%	21 41%

Comparison of trip rates within Table 6 (Maximum Existing Zoning Potential) and Table 4 (Proposed Trip Generation) shows that the proposed multifamily site is less intense than what could otherwise be permitted within this 3.5-acre property. Accordingly, a significant impact does not occur with the proposed rezone and further demonstration of TPR compliance is not required. If any changes to the site plan occur, if these changes remain below the trip levels shown in Table 6, further assessment will not be required.

FINDINGS AND RECOMMENDATIONS

The traffic study prepared for the proposed Oak Street multifamily development identifies the following:

• The proposed 3.5-acre multifamily project is planned to consist of 60 multifamily units and 3 single-family detached homes with access from a new local street to NE Oak Street.

- The proposed development is estimated to generate 432 weekday daily trips of which 26 trips are expected to occur during the weekday a.m. peak hour and 34 during the weekday p.m. peak hour.
- The site is currently zoned R-1 and the project includes rezoning the site from R-1 to R-3 to support this project. The TPR analysis shows that the proposed multifamily plan is less intense than what is permitted with the existing R-1 zoning. A significant impact does not occur with the proposed rezone. Further demonstration of TPR compliance is not required.
- No sight distance issues were identified at the proposed local street connection to NE Oak Street.
 However, with the steep grades it is recommended that the embankments be sloped to maintain the clear sight lines available today.
- There are no crash patterns within the study area identified from review of historical data.
- Traffic operations show that all study intersections meet City operation standards today, in the future build-out year, and with buildout of the site in the year 2027.
- Frontage improvements on NE Oak Street should include sidewalks and a landscape strip.
- The new local street should be built to City standards to include 55 feet of right-of-way, sidewalks, on-street parking, and a landscape strip.
- The project should support Citywide transportation improvements through payment of Transportation SDCs.

Please let me know if you have any questions or comments on these transportation materials at (503) 997-4473 or via email at joe@transightconsulting.com.

Attachments:

- Traffic Count Worksheets
- Existing Conditions LOS Worksheets
- Background Conditions LOS Worksheets
- With Project Conditions LOS Worksheets

Transight Consulting NE 7th St N/S street: E/W street: NE Oak St NE 7th St at NE Oak St Madras OR City, State Study ID # 113 Location Start Date Wednesday, August 09, 2023 Start Time 07:00:00 AM Peak Hour Start 07:45:00 AM Peak 15 Min Start 07:45:00 AM

0

0

0

0

0

0

0

All Vehicle Volumes

0

0

PHF (1	5-Min Int	:)						0.84															
										Peak	-Hour Vo	olumes (PHV)										
	North	bound			South	bound			Eastl	oound			Westl	oound			Ente	ering			Leav	/ing	
Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	NB	SB	EB	WB	NB	SB	EB	WB
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
								•		Per	cent Hea	avy Vehi	cles										
					PHV- Bicycles												PHV	- Pedes	trians				
	North	bound			South	bound		Eastbound				West	oound				in (Crosswa	lk				
Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	NB	SB	EB	WB	Sum		

0

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0

0

0 0 0 0

		North	bound			South	bound			Eastk	oound			West	bound			
		NE 7	th St			NE 7	7th St			NE C	ak St			NE C	ak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
07:00:00 AM	1	0	0	0	0	0	0	0	1	3	2	0	1	1	0	0		
07:05:00 AM	2	0	0	0	0	2	0	0	1	3	2	0	0	3	0	0		
07:10:00 AM	0	0	0	0	0	0	0	0	0	3	2	0	0	6	0	0	33	
07:15:00 AM	1	0	0	0	0	0	0	0	0	1	3	0	0	4	0	0	33	
07:20:00 AM	0	0	0	0	0	0	2	0	0	3	2	0	0	8	0	0	35	
07:25:00 AM	2	1	1	0	0	0	1	0	0	2	4	0	0	5	0	0	40	
07:30:00 AM	5	0	0	0	0	1	0	0	0	2	2	0	1	10	0	0	52	
07:35:00 AM	0	1	0	0	1	0	1	0	0	1	1	0	0	2	0	0	44	
07:40:00 AM	1	0	0	0	0	0	1	0	0	4	2	0	1	4	0	0	41	
07:45:00 AM	4	1	0	0	0	0	0	0	0	8	3	0	3	5	0	0	44	
07:50:00 AM	1	0	1	0	0	1	0	0	0	5	3	0	2	5	0	0	55	
07:55:00 AM	5	0	0	0	0	1	2	0	0	7	3	0	1	4	0	0	65	179
08:00:00 AM	3	0	0	0	0	0	0	0	0	3	2	0	0	6	0	0	55	184
08:05:00 AM	0	0	2	0	0	0	1	0	0	5	3	0	0	7	0	0	55	189
08:10:00 AM	2	0	1	0	0	0	0	0	0	7	3	0	0	4	0	0	49	195
08:15:00 AM	4	0	1	0	0	0	0	0	0	5	3	0	3	6	0	0	57	208
08:20:00 AM	2	0	0	0	1	0	1	0	0	6	1	0	1	3	0	0	54	208
08:25:00 AM	2	0	1	0	0	1	0	0	0	5	1	0	1	7	0	0	55	210
08:30:00 AM	3	0	0	0	0	0	1	0	0	10	1	0	1	3	0	0	52	208
08:35:00 AM	4	0	0	0	0	2	0	0	0	7	2	0	0	0	1	0	53	217
08:40:00 AM	0	1	0	0	0	0	0	0	0	4	6	0	0	3	0	0	49	218
08:45:00 AM	0	1	0	0	0	1	1	0	0	3	3	0	0	4	0	0	43	207
08:50:00 AM	5	0	0	0	0	0	0	0	0	5	2	0	0	10	0	0	49	211
08:55:00 AM	6	0	0	0	0	0	0	0	0	6	1	0	3	7	0	0	58	211

		North	bound			South	bound			Easth	oound			West	bound			
		NE 7	th St			NE 7	7th St			NE C	ak St			NE C	Oak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
07:00:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
07:05:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
07:10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:15:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:20:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:25:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:30:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:35:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:40:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:45:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:50:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:55:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:05:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:10:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:20:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:25:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30:00 AM 08:35:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:40:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:50:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:55:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
								Passeng										
		North	bound			South	bound			Eastk	oound			West	bound			
		NE 7	th St			NE 7	7th St			NE C	ak St			NE C	Dak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
07:00:00 AM	1	0	0	0	0	0	0	0	1	3	2	0	1	1	0	0		
07:05:00 AM	2	0	0	0	0	2	0	0	1	3	2	0	0	3	0	0		
07:10:00 AM	0	0	0	0	0	0	0	0	0	3	2	0	0	6	0	0	33	
07:15:00 AM	1	0	0	0	0	0	0	0	0	1	3	0	0	4	0	0	33	
07:20:00 AM	0	0	0	0	0	0	2	0	0	3	2	0	0	7	0	0	34	
07:25:00 AM	2	1	1	0	0	0	1	0	0	2	4	0	0	5	0	0	39	
07:30:00 AM	5	0	0	0	0	1	0	0	0	2	2	0	1	10	0	0	51	
07:35:00 AM	0	0	0	0	1	0	1	0	0	1	1	0	0	2	0	0	43	
07:40:00 AM	1	0	0	0	0	0	1	0	0	4	2	0	1	4	0	0	40	
07:45:00 AM	4	1	0	0	0	0	0	0	0	8	3	0	3	5	0	0	43	
07:50:00 AM	1	0	1	0	0	1	0	0	0	5	3	0	2	5	0	0	55	
07:55:00 AM	5	0	0	0	0	1	2	0	0	5	3	0	1	4	0	0	63	175
08:00:00 AM	3	0	0	0	0	0	0	0	0	3	2	0	0	6	0	0	53	180
08:05:00 AM		0	2	0	0	0	1	0	0	5	3	0	0	7	0	0	53	185
08:10:00 AM		0	1	0	0	0	0	0	0	7	3	0	0	4	0	0	49	191
08:15:00 AM		0	0	0	0	0	0	0	0	4	3	0	3	5	0	0	54	201
08:20:00 AM	2	0	0	0	0	0	1	0	0	6	1	0	1	3	0	0	50	201

07:50:00 AM

	_								_				_				_	
08:25:00 AM	2	0	1	0	0	1	0	0	0	5	1	0	1	7	0	0	51	203
08:30:00 AM	3	0	0	0	0	0	0	0	0	10	0	0	1	3	0	0	49	199
08:35:00 AM		0	0	0	0	2	0	0	0	7	1	0	0	0	1	0	50	208
08:40:00 AM	0	1	0	0	0	0	0	0	0	3	6	0	0	3	0	0	45	208
08:45:00 AM	0	1	0	0	0	1	1	0	0	3	3	0	0	4	0	0	41	197
08:50:00 AM	5	0	0	0	0	0	0	0	0	5	2	0	0	10	0	0	48	201
08:55:00 AM	6	0	0	0	0	0	0	0	0	6	1	0	3	7	0	0	58	203
								VA 4-13 -	Truck/M		,	rucks						
			bound				bound				oound				bound			=
			7th St				th St				ak St				Oak St		15 Min	
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
07:00:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
07:05:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
07:10:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:15:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:20:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
07:25:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
07:30:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
07:35:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
07:40:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
07:45:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
07:50:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:55:00 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	4
08:00:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4
08:05:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
08:10:00 AM 08:15:00 AM		0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	3	7
08:15:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	4	7
08:25:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7
08:30:00 AM	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	3	9
08:35:00 AM		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	9
08:40:00 AM		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	4	10
08:45:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10
08:50:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10
08:55:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
		ns Crossi			15 Min													
Time	NB	SB	EB	WB	Sum	Sum												
07:00:00 AM	0	0	0	VV Б 0	Juili	Juill												
07:05:00 AM	0	0	0	0														
07:10:00 AM	0	0	0	0	0													
07:15:00 AM	0	0	0	0	0													
07:20:00 AM	0	0	0	0	0													
07:25:00 AM	0	0	0	0	0													
07:30:00 AM	0	0	0	0	0													
07:35:00 AM	0	0	0	0	0													
07:40:00 AM	0	0	0	0	0													
07:45:00 AM	0	0	0	0	0													
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07:55:00 AM	0	0	0	0	0	0
08:00:00 AM	0	0	0	0	0	0
08:05:00 AM	0	0	0	0	0	0
08:10:00 AM	0	0	0	0	0	0
08:15:00 AM	0	0	0	0	0	0
08:20:00 AM	0	0	0	0	0	0
08:25:00 AM	0	0	0	0	0	0
08:30:00 AM	0	0	0	1	1	1
08:35:00 AM	0	0	0	0	1	1
08:40:00 AM	0	0	0	1	2	2
08:45:00 AM	0	0	0	0	1	2
08:50:00 AM	0	0	0	0	1	2
08:55:00 AM	0	0	0	0	0	2

			Transi	ght Con	sultina																		
N/S stre E/W stre					NE 7 NE 0	th St ak St																	
				NE	7th St a	t NE Oal	c St																
City, Sta	ate					Madras	OR																
Study ID					11	13																	
Start Da				Wedn	esday, A		, 2023																
Start Tir		i			04:00:		00 PM																
Peak 15						04:55	:00 PM																
PHF (15	-Min Int)						0.91		Deed	l. 11	-1	21.0.0										
	North	bound		1	South	bound		l	Eastb		k-Hour V	olumes (oound		1	Ente	ering		l	Lea	ving	
Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	NB	SB	EB	WB	NB	SB	EB	WB
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
				1				ı		Pe	rcent Hea	avy Vehic	les			1				ı			
							D.	D / D:										DI N	5	<u> </u>			
	North	bound			South	bound	PF	IV- Bicyc		ound		l	Westl	oound		Ι			- Pedest Crosswal		<u> </u>	1	
Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	NB	SB	EB	WB	Sum		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1		
								F	All Vehicle	e Volume	es												
			North	bound			South	bound			Easth	ound			Westl	bound							
			NE 7	th St			NE 7	th St			NE C	ak St			NE C	ak St		15 Min	1 HR				
Time		Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum				
04:00:		3	0	0	0	0	1	0	0	0	7	5 8	0	2	7	0	0						
	00 PM	3	0	1	0	0	1	0	0	0	10	9	0	1	9	0	0	93					
04:15:	00 PM	1	0	1	0	0	1	0	0	1	14	6	0	1	3	0	0	97					
04:20:	00 PM	2	1	2	0	1	2	0	0	0	5	3	0	2	7	0	0	87					
04:25:	00 PM	1	0	2	0	0	0	0	0	1	8	4	0	1	6	1	0	77					
04:30:	00 PM	4	1	1	0	0	0	0	0	0	3	3	0	1	11	0	0	73					
04:35:	00 PM	4	1	0	0	0	0	0	0	1	8	8	0	1	6	0	0	77					
04:40:	00 PM	6	0	0	0	0	0	0	0	0	5	7	0	3	9	0	0	83					
	00 PM	4	2	2	0	0	0	0	0	0	7	6	0	0	8	0	0	88		1			

04:50:00 PM

04:55:00 PM

05:00:00 PM

05:05:00 PM

05:10:00 PM

05:15:00 PM

05:20:00 PM

05:25:00 PM

05:30:00 PM

05:35:00 PM

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05:45:00 PM

05:50:00 PM

05:55:00 PM

									Bicycles	on Road	I							
		North	bound			South	bound			Eastl	oound			West	bound			
		NE 7	7th St			NE 7	7th St			NE C	Oak St			NE C	Dak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
04:00:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04:05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04:10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:15:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:20:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:25:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:35:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:40:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:50:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:55:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:20:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:25:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:35:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:40:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:50:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:55:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
								Passeng										
	I	North	bound		ı	South	bound	r dooong	l vernor		oound		l	West	bound		1	
			7th St				7th St				Dak St				Dak St		15 Min	1 HR
T:	1.4			1.16	1 - 44			1.16	1 - 44			1.16	1.4			1.14		
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
04:00:00 PM	3	2	1	0	0	1	1	0	0	3	3	0	1	5	0	0		
04:05:00 PM	9	0	0	0	0	1	0	0	1	7	7	0	2	6	0	0		
04:10:00 PM	3	0	1	0	0	1	0	0	0	9	8	0	1	8	0	0	84	
04:15:00 PM	1	0	1	0	0	1	0	0	1	13	6	0	1	3	0	0	91	
04:20:00 PM	2	1	2	0	1	2	0	0	0	5	3	0	2	7	0	0	83	
04:25:00 PM	1	0	2	0	0	0	0	0	1	8	4	0	1	6	1	0	76	
04:30:00 PM	4	1	1	0	0	0	0	0	0	3	3	0	1	11	0	0	73	
04:35:00 PM	4	1	0	0	0	0	0	0	1	7	8	0	0	6	0	0	75	
04:40:00 PM	6	0	0	0	0	0	0	0	0	5	7	0	3	9	0	0	81	
04:45:00 PM	4	2	2	0	0	0	0	0	0	7	6	0	0	8	0	0	86	
04:50:00 PM	1	0	0	0	0	1	0	0	0	14	5	0	1	7	0	0	88	
04:55:00 PM	3	3	3	0	0	0	1	0	0	13	6	0	2	8	0	0	97	338
05:00:00 PM	5	2	2	0	0	0	0	0	1	10	4	0	0	8	1	0	101	351
05:05:00 PM	3	1	2	0	0	2	0	0	0	11	6	0	3	8	0	0	108	354
05:10:00 PM	5	1	1	0	0	0	0	0	0	9	4	0	6	10	0	0	105	359

		Trans	ight Con	sulting														
05:15:00 PM	5	0	3	0	0	2	0	0	0	3	4	0	1	3	0	0	93	353
05:20:00 PM	6	1	2	0	0	1	0	0	0	6	14	0	0	10	0	0	97	368
05:25:00 PM	3	2	0	0	0	0	0	0	1	5	10	0	3	5	0	0	90	373
05:30:00 PM	6	0	0	0	0	3	0	0	0	8	7	0	1	7	0	0	101	381
05:35:00 PM	4	0	0	0	0	1	0	0	1	10	12	0	0	6	0	0	95	388
05:40:00 PM	10	1	0	0	0	0	1	0	1	10	9	0	1	6	0	0	105	397
05:45:00 PM	3	1	0	0	0	1	2	0	1	10	10	0	1	6	1	0	109	404
05:50:00 PM	2	0	0	0	0	0	1	0	0	7	5	0	1	3	0	0	94	394
05:55:00 PM	2	1	0	0	0	0	0	0	0	11	8	0	0	6	0	0	83	383
					_			VA 4-13 ·	-Truck/M		Heavy Tr	ucks						
			bound				bound				oound				bound			
		NE 7	7th St			NE 7	th St			NE C	Oak St			NE C	Oak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
04:00:00 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0		
04:05:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0		
04:10:00 PM	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	9	
04:15:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	6	
04:20:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
04:25:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
04:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:35:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	2	
04:40:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
04:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
04:50:00 PM 04:55:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 4	46
05:00:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	6	16 14
05:05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	12
05:10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9
05:15:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9
05:20:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	10
05:25:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10
05:30:00 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	11
05:35:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9
05:40:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9
05:45:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	10
05:50:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10
05:55:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6
	edestria	ns Crossi	na		15 Min		1											
Time	NB	SB	EB	WB	Sum	Sum												
04:00:00 PM	0	0	0	0	Juili	Juili												
04:05:00 PM	0	0	0	0														
04:10:00 PM	0	0	0	0	0		-											
04:15:00 PM	0	0	0	0	0													
04:20:00 PM	0	0	0	0	0													
0-7.20.00 F W			U	J	L		1											

04:25:00 PM 04:30:00 PM

04:35:00 PM

04:40:00 PM	0	0	0	0	0	
04:45:00 PM	0	0	0	0	0	
04:50:00 PM	0	0	0	0	0	
04:55:00 PM	0	1	0	0	1	1
05:00:00 PM	0	0	0	0	1	1
05:05:00 PM	0	0	0	0	1	1
05:10:00 PM	0	0	0	0	0	1
05:15:00 PM	0	0	0	0	0	1
05:20:00 PM	0	0	0	0	0	1
05:25:00 PM	0	0	0	0	0	1
05:30:00 PM	0	0	0	0	0	1
05:35:00 PM	0	0	0	0	0	1
05:40:00 PM	0	0	0	0	0	1
05:45:00 PM	0	0	0	0	0	1
05:50:00 PM	0	0	0	0	0	1
05:55:00 PM	0	0	0	1	1	1

Transight Consulting NE 10th St N/S street: E/W street: NE Oak St NE 10th St at NE Oak St Madras OR City, State Study ID # 113 Location Start Date Wednesday, August 09, 2023 Start Time 07:00:00 AM Peak Hour Start 07:45:00 AM Peak 15 Min Start 07:45:00 AM

Left

0

Thru

0

Right

0

Uturn

0

Left

0

Left

0

0

Thru Right Uturn

0

0

PHF (15	5-Min Int	:)						0.88															
										Peal	k-Hour V	olumes ((PHV)										
	North	bound			South	bound			East	bound			West	bound			Ente	ering			Lea	ving	
Left	Thru	Right	Uturn	Left	Thru	ı Right Uturn Left Thru Right Uturn Left Thru Right Uturn NB SB EB WB NB SB E											EB	WB					
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
										Pe	rcent He	avy Vehi	cles			4							
							PH	IV- Bicyc	cles			•						PHV	' - Pedes	trians			
	North	bound			South	bound			East	bound			West	bound				in (Crosswa	lk		i	

Left

0

Thru

0

Right Uturn

0

0

NB

0

Sum

0

SB

0

EΒ

0

WB

0

Sum

0

Uturn

0

Right

0

Thru

0

							А	II Vehicle	e Volume	es								
		North	bound			South	bound			Eastl	bound			West	bound			
		NE 1	0th St			NE 1	0th St			NE C	Oak St			NE C	Oak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
07:00:00 AM	0	0	1	0	1	0	0	0	0	3	0	0	0	2	1	0		
07:05:00 AM	0	0	0	0	0	0	0	0	0	4	0	0	0	3	0	0		
07:10:00 AM	0	0	0	0	0	0	2	0	0	3	0	0	0	2	0	0	22	
07:15:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	19	
07:20:00 AM	0	0	0	0	0	0	1	0	0	2	0	0	0	9	0	0	24	
07:25:00 AM	0	0	0	0	0	0	0	0	0	3	1	0	0	5	0	0	26	
07:30:00 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	9	0	0	32	
07:35:00 AM	0	0	0	0	0	0	1	0	0	2	0	0	0	1	0	0	24	
07:40:00 AM	0	0	0	0	0	0	1	0	1	3	0	0	0	4	1	0	25	
07:45:00 AM	0	0	0	0	0	0	2	0	0	6	1	0	0	9	1	0	33	
07:50:00 AM	0	0	0	0	1	0	0	0	1	7	0	0	0	4	0	0	42	
07:55:00 AM	0	0	0	0	0	0	1	0	0	8	0	0	0	4	1	0	46	119
08:00:00 AM	0	0	0	0	0	0	0	0	1	2	0	0	0	7	1	0	38	122
08:05:00 AM	1	0	0	0	1	0	1	0	0	4	1	0	0	3	0	0	36	126
08:10:00 AM	0	0	0	0	0	0	0	0	0	8	0	0	0	4	0	0	34	131
08:15:00 AM	0	0	0	0	0	0	1	0	1	6	0	0	0	7	0	0	38	141
08:20:00 AM	0	0	0	0	0	0	2	0	1	6	0	0	0	3	1	0	40	142
08:25:00 AM	0	0	0	0	1	0	2	0	0	6	0	0	0	7	0	0	44	149
08:30:00 AM	1	0	0	0	0	0	2	0	1	10	0	0	0	1	0	0	44	153
08:35:00 AM	0	0	0	0	0	0	0	0	0	8	0	0	0	1	1	0	41	159
08:40:00 AM	0	0	0	0	2	0	1	0	1	4	0	0	0	4	0	0	37	161
08:45:00 AM	0	0	0	0	1	0	0	0	0	5	0	0	0	4	1	0	33	153
08:50:00 AM	1	0	0	0	2	0	0	0	1	2	1	0	0	7	2	0	39	156
08:55:00 AM	1	0	0	0	1	1	2	0	0	6	0	0	0	7	1	0	46	161
									Bicycles	on Road	d							

		North	bound			South	bound			Easth	ound			West	bound			
		NE 1	0th St			NE 1	0th St			NE C	ak St			NE C	ak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
07:00:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
07:05:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
07:10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
07:15:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
07:20:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:25:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:30:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:35:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:40:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:45:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:50:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:55:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
08:00:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
08:05:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:10:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:20:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:25:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:35:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:40:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:50:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:55:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Nanda	bound	1	1	0		Passeng	er venicie			S		10/			ı	
			oouna Oth St				bound 0th St				oound Oak St				bound Dak St		45 Min	4 LID
T	1 - 61				1 -61				1 -61				1 -41			1.00	15 Min	
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
07:00:00 AM		0	0	0	0	0	0	0	0	3	0	0	0	2	0	0		
07:05:00 AM 07:10:00 AM		0	0	0	0		2		0	4	0	0	0	2	0	0	22	
				0		0		0		3						0		
07:15:00 AM		0	0	0	0	0	0	0	0	1	0	0	0	7	0		19	
07:20:00 AM 07:25:00 AM		0	0	0	0	0	0	0	0	3	1	0	0	5	0	0	22	
07:30:00 AM		0	0	0	0	0	0	0	0	2	0	0	0	9	0	0	30	
07:35:00 AM		0	0	0	0	0	1	0	0	2	0	0	0	1	0	0	24	
07:40:00 AM		0	0	0	0	0	1	0	1	3	0	0	0	4	1	0	25	
07:45:00 AM		0	0	0	0	0	2	0	0	6	1	0	0	9	1	0	33	
07:50:00 AM		0	0	0	1	0	0	0	1	7	0	0	0	4	0	0	42	
07:55:00 AM		0	0	0	0	0	1	0	0	6	0	0	0	4	1	0	44	115
08:00:00 AM		0	0	0	0	0	0	0	1	2	0	0	0	7	1	0	36	118
08:05:00 AM		0	0	0	1	0	1	0	0	4	1	0	0	3	0	0	34	122
08:10:00 AM		0	0	0	0	0	0	0	0	8	0	0	0	4	0	0	34	127
08:15:00 AM		0	0	0	0	0	1	0	0	5	0	0	0	7	0	0	36	135
08:20:00 AM		0	0	0	0	0	2	0	1	5	0	0	0	3	1	0	37	137
55.25.00 /NVI				3	J				<u>'</u>								J,	.5,

07:50:00 AM

0

08:25:00 AM	0	0	0	0	1	0	2	0	0	6	0	0	0	7	0	0	41	144
08:30:00 AM	1	0	0	0	0	0	2	0	1	10	0	0	0	1	0	0	43	148
08:35:00 AM	0	0	0	0	0	0	0	0	0	8	0	0	0	1	1	0	41	154
08:40:00 AM	0	0	0	0	2	0	1	0	1	3	0	0	0	4	0	0	36	155
08:45:00 AM	0	0	0	0	1	0	0	0	0	5	0	0	0	4	1	0	32	147
08:50:00 AM	1	0	0	0	2	0	0	0	1	2	1	0	0	7	1	0	37	149
08:55:00 AM	1	0	0	0	1	1	2	0	0	6	0	0	0	7	0	0	44	155
							FHV	VA 4-13	Truck/M	ulti-Unit/	Heavy Ti	ucks	•					
		North	bound			South	bound			Eastl	oound			West	bound			
		NE 1	0th St			NE 1	0th St			NE C	ak St			NE C	Oak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
07:00:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
07:05:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
07:10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:15:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:20:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	
07:25:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
07:30:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
07:35:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:40:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:45:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:50:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:55:00 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	4
08:00:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4
08:05:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4
08:10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
08:15:00 AM	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	6
08:20:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3	5
08:25:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5
08:30:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5
08:35:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
08:40:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	6
08:45:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6
08:50:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	7
08:55:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	6
Po	edestriar	ns Cross	ing		15 Min	1 HR			-								•	
Time	NB	SB	EB	WB	Sum	Sum												
07:00:00 AM	0	0	0	0														
07:05:00 AM	0	0	0	0														
07:10:00 AM	0	0	0	0	0													
07:15:00 AM	0	0	0	0	0													
07:20:00 AM	0	0	0	0	0													
07:25:00 AM	0	0	0	0	0													
07:30:00 AM	0	0	0	0	0													
07:35:00 AM	0	0	0	0	0													
07:40:00 AM	0	0	0	0	0													
07:45:00 AM	1	0	0	0	1													
					-													

07:55:00 AM	0	0	0	0	1	1
08:00:00 AM	0	0	0	0	0	1
08:05:00 AM	0	0	0	0	0	1
08:10:00 AM	0	0	0	0	0	1
08:15:00 AM	0	0	0	0	0	1
08:20:00 AM	0	0	0	0	0	1
08:25:00 AM	0	2	0	1	3	4
08:30:00 AM	0	0	0	0	3	4
08:35:00 AM	0	2	0	0	5	6
08:40:00 AM	0	0	0	0	2	6
08:45:00 AM	0	1	0	0	3	6
08:50:00 AM	0	0	1	0	2	7
08:55:00 AM	0	0	0	0	2	7

Transight Consulting NE 10th St N/S street: E/W street: NE Oak St NE 10th St at NE Oak St Madras OR City, State Study ID # 113 Location Start Date Wednesday, August 09, 2023 Start Time 04:00:00 PM Peak Hour Start 04:10:00 PM Peak 15 Min Start 04:55:00 PM

PHF (15	5-Min Int	:)						0.80															
										Peak	-Hour Vo	olumes (PHV)										
	North	bound			South	bound			Eastl	oound			West	bound			Ente	ering			Lea	/ing	
Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	NB	SB	EB	WB	NB	SB	EB	WB
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
										Pei	cent He	avy Vehi	cles							•			
							PH	V- Bicyc	eles									PHV	- Pedes	trians			
	North	bound			South	bound			Eastl	oound			West	bound				in (Crosswa	lk			
Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	NB	SB	EB	WB	Sum		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

							Α	II Vehicle	e Volume	es								
		North	bound			South	bound			Eastl	oound			West	oound			
		NE 1	0th St			NE 1	0th St			NE C	Oak St			NE C	ak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
04:00:00 PM	0	0	0	0	0	0	0	0	1	3	0	0	0	8	0	0		
04:05:00 PM	1	1	0	0	2	0	1	0	1	8	0	0	0	7	1	0		
04:10:00 PM	0	0	1	0	1	0	3	0	2	8	0	0	0	7	1	0	57	
04:15:00 PM	0	0	0	0	1	0	1	0	3	14	1	0	0	1	4	0	70	
04:20:00 PM	1	0	0	0	1	0	2	0	2	8	0	0	0	6	1	0	69	
04:25:00 PM	2	1	0	0	0	0	0	0	2	7	0	0	2	5	1	0	66	
04:30:00 PM	0	0	0	0	0	0	0	0	2	1	0	0	1	12	1	0	58	
04:35:00 PM	1	0	0	0	2	0	2	0	1	4	0	0	0	4	0	0	51	
04:40:00 PM	1	1	0	0	1	0	2	0	0	5	0	0	0	8	1	0	50	
04:45:00 PM	0	0	0	0	2	0	2	0	0	8	0	0	0	6	2	0	53	
04:50:00 PM	0	0	1	0	0	0	1	0	0	12	0	0	0	9	0	0	62	
04:55:00 PM	1	0	0	0	0	0	1	0	2	11	1	0	0	9	1	0	69	242
05:00:00 PM	1	0	0	0	2	1	2	0	3	9	0	0	0	10	1	0	78	259
05:05:00 PM	2	0	0	0	2	0	2	0	3	8	2	0	0	8	0	0	82	264
05:10:00 PM	1	0	0	0	0	0	2	0	2	4	0	0	0	10	1	0	76	261
05:15:00 PM	0	0	0	0	1	0	2	0	1	3	1	0	0	6	3	0	64	253
05:20:00 PM	1	0	0	0	0	0	0	0	3	11	1	0	0	7	0	0	60	255
05:25:00 PM	0	0	0	0	1	0	1	0	0	4	0	0	0	8	0	0	54	249
05:30:00 PM	2	0	0	0	0	0	2	0	1	7	0	0	0	7	1	0	57	252
05:35:00 PM	0	0	0	0	0	0	1	0	2	8	1	0	0	2	1	0	49	253
05:40:00 PM	0	0	0	0	1	0	1	0	1	4	0	0	0	6	0	0	48	247
05:45:00 PM	1	0	0	0	1	1	0	0	1	9	1	0	0	7	2	0	51	250
05:50:00 PM	0	0	0	0	1	0	0	0	1	2	1	0	0	5	2	0	48	239
05:55:00 PM	0	0	0	0	0	0	0	0	0	10	0	0	0	5	1	0	51	229

		North	bound			South	bound			Easth	ound			West	bound			
		NE 1	0th St			NE 1	0th St			NE C	ak St			NE C	ak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
04:00:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04:05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04:10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:15:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:20:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:25:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:35:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:40:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
04:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
04:50:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
04:55:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:15:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:20:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:25:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:35:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:40:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:50:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:55:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	•						ı	Passeng	er vehicle	es and li	ght truck	s						
		North	bound			South	bound			Eastk	oound			West	bound			
		NE 10	0th St			NE 1	0th St			NE C	ak St			NE C	ak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
04:00:00 PM	0	0	0	0	0	0	0	0	1	3	0	0	0	8	0	0		
04:05:00 PM	1	1	0	0	2	0	1	0	1	8	0	0	0	7	1	0		
04:10:00 PM	0	0	1	0	1	0	3	0	2	8	0	0	0	7	1	0	57	
04:15:00 PM	0	0	0	0	1	0	1	0	3	13	1	0	0	1	4	0	69	
04:20:00 PM	1	0	0	0	1	0	2	0	2	8	0	0	0	6	1	0	68	
04:25:00 PM	2	1	0	0	0	0	0	0	2	7	0	0	2	5	1	0	65	
04:30:00 PM	0	0	0	0	0	0	0	0	2	1	0	0	1	12	1	0	58	
04:35:00 PM	1	0	0	0	2	0	2	0	1	4	0	0	0	3	0	0	50	
04:40:00 PM	1	1	0	0	1	0	2	0	0	5	0	0	0	8	1	0	49	
04:45:00 PM	0	0	0	0	2	0	2	0	0	8	0	0	0	6	2	0	52	
04:50:00 PM	0	0	1	0	0	0	1	0	0	12	0	0	0	9	0	0	62	
04:55:00 PM	1	0	0	0	0	0	1	0	2	11	1	0	0	9	1	0	69	240
05:00:00 PM	1	0	0	0	2	1	2	0	3	9	0	0	0	10	1	0	78	257
05:05:00 PM	2	0	0	0	2	0	2	0	3	8	2	0	0	8	0	0	82	262
05:10:00 PM	1	0	0	0	0	0	2	0	2	4	0	0	0	10	1	0	76	259
05:15:00 PM	0	0	0	0	1	0	2	0	1	3	1	0	0	6	3	0	64	252
05:20:00 PM																		

04:50:00 PM

05:25:00 PM	0	0	0	0	1	0	1	0	0	4	0	0	0	8	0	0	54	248
05:30:00 PM	2	0	0	0	0	0	2	0	1	7	0	0	0	7	1	0	57	251
05:35:00 PM	0	0	0	0	0	0	1	0	2	8	1	0	0	2	1	0	49	253
05:40:00 PM	0	0	0	0	1	0	1	0	1	4	0	0	0	6	0	0	48	247
05:45:00 PM	1	0	0	0	1	1	0	0	1	9	1	0	0	7	2	0	51	250
05:50:00 PM	0	0	0	0	1	0	0	0	1	2	1	0	0	5	2	0	48	239
05:55:00 PM	0	0	0	0	0	0	0	0	0	10	0	0	0	5	1	0	51	229
							FHV	VA 4-13	-Truck/M	ulti-Unit/	Heavy Ti	rucks						
		North	bound			South	bound			Eastk	ound			West	bound			
		NE 1	0th St			NE 10	Oth St			NE C	ak St			NE C	Oak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
04:00:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04:05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04:10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:15:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
04:20:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
04:25:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
04:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:35:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
04:40:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
04:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
04:50:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:55:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
05:00:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
05:05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
05:10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
05:15:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:20:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:25:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:35:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:40:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:50:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:55:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pe	edestriar	ns Crossi	ing		15 Min	1 HR												
Time	NB	SB	EB	WB	Sum	Sum												
04:00:00 PM	0	0	0	0														
04:05:00 PM	0	0	1	0														
04:10:00 PM	0	0	0	0	1													
04:15:00 PM	0	0	0	0	1													
04:20:00 PM	0	0	0	0	0													
04:25:00 PM	0	0	0	0	0													
04:30:00 PM	0	0	0	0	0													
04:35:00 PM	0	0	0	0	0													
04:40:00 PM	0	0	1	0	1													
04:45:00 PM	0	0	0	0	1													

04:55:00 PM	0	1	0	0	1	3
05:00:00 PM	0	0	0	0	1	3
05:05:00 PM	0	0	0	0	1	2
05:10:00 PM	0	0	0	0	0	2
05:15:00 PM	0	0	0	0	0	2
05:20:00 PM	0	0	0	0	0	2
05:25:00 PM	0	0	0	0	0	2
05:30:00 PM	0	0	0	0	0	2
05:35:00 PM	0	0	0	0	0	2
05:40:00 PM	0	0	0	0	0	1
05:45:00 PM	0	0	0	0	0	1
05:50:00 PM	0	0	0	0	0	1
05:55:00 PM	0	0	0	0	0	0

Transight Consulting NE 12th St N/S street: E/W street: NE Oak St NE 12th St at NE Oak St Madras OR City, State Study ID # 113 Location Start Date Wednesday, August 09, 2023 Start Time 07:00:00 AM Peak Hour Start 07:45:00 AM 07:45:00 AM Peak 15 Min Start

PHF (1	5-Min Int	t)						0.75															
										Peak	k-Hour V	olumes (PHV)										
	North	bound		Southbound				Eastbound				Westbound				Entering					Leav	/ing	
Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	NB	SB	EB	WB	NB	SB	EB	WB
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
										Pe	rcent Hea	avy Vehi	cles							•			
							PH	IV- Bicyc	eles									PHV	- Pedes	trians			
	North	bound			Southbound				Eastbound			Westbound				in Crosswa			lk				
Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	NB	SB	EB	WB	Sum		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	l	

		North	bound		Southbound NE 12th St					Eastl	oound			Westl				
		NE 1	2th St							NE C	ak St		NE Oak St				15 Min 1 HR	
Гime	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
07:00:00 AM	0	0	1	0	0	0	0	0	0	3	2	0	1	2	0	0		
07:05:00 AM	0	0	2	0	0	0	0	0	0	4	1	0	0	2	0	0		
07:10:00 AM	0	0	0	0	0	0	0	0	0	2	0	0	1	2	0	0	23	
07:15:00 AM	1	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	18	
07:20:00 AM	0	0	0	0	0	0	0	0	0	3	0	0	0	7	0	0	19	
07:25:00 AM	2	0	2	0	0	0	0	0	0	1	1	0	0	4	0	0	24	
07:30:00 AM	1	0	0	0	0	0	0	0	0	0	1	0	0	7	0	0	29	
07:35:00 AM	0	0	1	0	0	0	0	0	0	1	1	0	1	1	0	0	24	
07:40:00 AM	1	0	0	0	0	0	0	0	0	0	1	0	0	4	0	0	20	
07:45:00 AM	2	0	0	0	0	0	0	0	0	6	0	0	0	7	0	0	26	
07:50:00 AM	1	0	0	0	0	0	0	0	0	5	2	0	0	5	0	0	34	
07:55:00 AM	0	0	1	0	0	0	0	0	0	6	2	0	0	6	0	0	43	110
08:00:00 AM	1	0	1	0	0	0	0	0	0	1	1	0	1	4	0	0	37	110
08:05:00 AM	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	32	109
08:10:00 AM	1	0	0	0	0	0	0	0	0	6	1	0	1	1	0	0	27	114
08:15:00 AM	1	0	0	0	0	0	0	0	0	3	0	0	0	4	0	0	26	118
08:20:00 AM	0	0	0	0	0	0	0	0	0	6	1	0	0	4	0	0	29	119
08:25:00 AM	1	0	0	0	0	0	0	0	0	4	2	0	0	4	0	0	30	120
08:30:00 AM	0	0	0	0	0	0	0	0	0	6	3	0	0	1	0	0	32	121
08:35:00 AM	0	0	0	0	0	0	0	0	0	5	3	0	1	2	0	0	32	127
08:40:00 AM	1	0	1	0	0	0	0	0	0	4	1	0	0	1	0	0	29	129
08:45:00 AM	0	0	0	0	0	0	0	0	0	4	1	0	1	5	0	0	30	125
08:50:00 AM	1	0	0	0	0	0	0	0	0	3	1	0	0	7	0	0	31	124
08:55:00 AM	0	0	2	0	0	0	0	0	0	3	4	0	0	7	0	0	39	125

All Vehicle Volumes

		North	bound			South	bound			Easth	oound			West	bound			
		NE 1	2th St			NE 1	2th St			NE C	ak St			NE C	ak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
07:00:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
07:05:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
07:10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:15:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:20:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:25:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:30:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:35:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:40:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:45:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:50:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:55:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:05:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:20:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:25:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:35:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:40:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:50:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:55:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
							ſ	Passenge	er vehicle	es and li	ght truck	s						
		North	bound			South	bound			Eastk	oound			West	bound			
		NE 1:	2th St			NE 1	2th St			NE C	ak St			NE C	ak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
07:00:00 AM	0	0	1	0	0	0	0	0	0	3	2	0	1	2	0	0		
07:05:00 AM	0	0	2	0	0	0	0	0	0	4	1	0	0	2	0	0		
07:10:00 AM	0	0	0	0	0	0	0	0	0	2	0	0	1	2	0	0	23	
07:15:00 AM	1	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	18	
07:20:00 AM	0	0	0	0	0	0	0	0	0	3	0	0	0	6	0	0	18	
07:25:00 AM		0	2	0	0	0	0	0	0	1	1	0	0	3	0	0	22	
07:30:00 AM		0	0	0	0	0	0	0	0	0	1	0	0	7	0	0	27	
07:35:00 AM		0	1	0	0	0	0	0	0	1	1	0	1	1	0	0	23	
07:40:00 AM		0	0	0	0	0	0	0	0	0	1	0	0	4	0	0	20	
07:45:00 AM		0	0	0	0	0	0	0	0	6	0	0	0	7	0	0	26	
07:50:00 AM		0	0	0	0	0	0	0	0	5	2	0	0	4	0	0	33	
07:55:00 AM		0	1	0	0	0	0	0	0	4	2	0	0	5	0	0	39	104
08:00:00 AM		0	1	0	0	0	0	0	0	1	1	0	1	4	0	0	33	104
08:05:00 AM		0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	29	103
08:10:00 AM		0	0	0	0	0	0	0	0	6	1	0	1	1	0	0	27	108
08:15:00 AM		0	0	0	0	0	0	0	0	3	0	0	0	4	0	0	26	112
08:20:00 AM	0	0	0	0	0	0	0	0	0	4	1	0	0	4	0	0	27	112

07:50:00 AM

0

08:25:00 AM	1	0	0	0	0	0	0	0	0	4	2	0	0	4	0	0	28	114
08:30:00 AM	0	0	0	0	0	0	0	0	0	6	3	0	0	1	0	0	30	115
08:35:00 AM	0	0	0	0	0	0	0	0	0	5	3	0	1	2	0	0	32	121
08:40:00 AM	1	0	1	0	0	0	0	0	0	4	1	0	0	1	0	0	29	123
08:45:00 AM	0	0	0	0	0	0	0	0	0	3	1	0	1	5	0	0	29	118
08:50:00 AM	1	0	0	0	0	0	0	0	0	3	1	0	0	7	0	0	30	118
08:55:00 AM	0	0	2	0	0	0	0	0	0	3	4	0	0	7	0	0	38	122
							FHV	VA 4-13 -	-Truck/M	ulti-Unit/	Heavy Tr	ucks					<u> </u>	
		North	bound			South	bound			Eastl	oound			West	bound		Ī	
		NE 1	2th St			NE 1:	2th St			NE C	ak St			NE C	Dak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
07:00:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
07:05:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
07:10:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:15:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:20:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
07:25:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
07:30:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
07:35:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
07:40:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:45:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0		0	0	0	0	0	0	0	0	0	1	0	0	1	
07:50:00 AM		0	0	0	0	0	0	0	0	2	0	0	0	1		0	4	6
07:55:00 AM 08:00:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6
		0		0				0	0			0	0	0	0			
08:05:00 AM		0	0	0	0	0	0	0	0	0	0	0	0			0	3	6
08:10:00 AM														0	0			
08:15:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
08:20:00 AM		0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	7
08:25:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6
08:30:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6
08:35:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
08:40:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
08:45:00 AM		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	7
08:50:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6
08:55:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
Pe	edestriar	ns Cross	ing		15 Min	1 HR												
Time	NB	SB	EB	WB	Sum	Sum												
07:00:00 AM	0	0	0	0	-													
07:05:00 AM	0	0	0	1														
07:10:00 AM	0	0	0	0	1													
07:15:00 AM	0	0	0	0	1													
07:20:00 AM	0	0	0	0	0													
07:25:00 AM	0	0	0	0	0													
07:30:00 AM	0	0	0	0	0													
07:35:00 AM	0	0	0	0	0													
07:40:00 AM	0	0	0	0	0													
07:45:00 AM	1	0	0	0	1													

07:55:00 AM	0	0	0	0	1	2
08:00:00 AM	0	0	0	0	0	2
08:05:00 AM	0	0	0	0	0	1
08:10:00 AM	0	0	0	0	0	1
08:15:00 AM	0	0	0	0	0	1
08:20:00 AM	0	0	0	0	0	1
08:25:00 AM	0	0	0	2	2	3
08:30:00 AM	0	0	0	1	3	4
08:35:00 AM	0	0	2	2	7	8
08:40:00 AM	0	0	0	5	10	13
08:45:00 AM	1	0	0	1	11	14
08:50:00 AM	0	0	0	0	7	14
08:55:00 AM	0	0	0	0	2	14

Transight Consulting NE 12th St N/S street: E/W street: NE Oak St NE 12th St at NE Oak St Madras OR City, State Study ID # 113 Location Start Date Wednesday, August 09, 2023 Start Time 04:00:00 PM Peak Hour Start 04:40:00 PM Peak 15 Min Start 04:55:00 PM

PHF (15	-Min Int	:)						0.77															
										Peak	-Hour Vo	olumes (PHV)										
	North	bound			South	bound			Eastl	bound			West	bound			Ente	ering			Lea	ving	
Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	NB	SB	EB	WB	NB	SB	EB	WB
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
										Pei	cent Hea	avy Vehi	cles										
							PH	V- Bicyc	les									PHV	- Pedes	trians			
	North	bound			South	bound			Eastl	oound			West	bound				in (Crosswa	lk			
Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	NB	SB	EB	WB	Sum		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

		North	bound			South	bound			Eastk	bound			West	bound			
		NE 1:	2th St			NE 1:	2th St			NE C	Oak St			NE C	ak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
04:00:00 PM	3	0	1	0	0	0	0	0	0	2	1	0	1	6	0	0		
04:05:00 PM	2	0	1	0	0	0	0	0	0	4	2	0	1	4	0	0		
04:10:00 PM	2	0	0	0	0	0	0	0	0	6	2	0	0	4	0	0	42	
04:15:00 PM	2	0	0	0	0	0	0	0	0	12	2	0	0	1	0	0	45	
04:20:00 PM	2	0	0	0	0	0	0	0	0	3	2	0	1	4	0	0	43	
04:25:00 PM	1	0	1	0	0	0	0	0	0	4	2	0	0	5	0	0	42	
04:30:00 PM	1	0	4	0	0	0	0	0	0	1	2	0	0	7	0	0	40	
04:35:00 PM	0	0	0	0	0	0	0	0	0	2	1	0	2	3	0	0	36	
04:40:00 PM	8	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	37	
04:45:00 PM	2	0	1	0	0	0	0	0	0	7	2	0	1	5	0	0	40	
04:50:00 PM	2	0	0	0	0	0	0	0	0	8	2	0	1	3	0	0	48	
04:55:00 PM	0	0	4	0	0	0	0	0	0	6	4	0	1	9	0	0	58	179
05:00:00 PM	1	0	3	0	0	0	0	0	0	9	1	0	0	7	0	0	61	186
05:05:00 PM	3	0	1	0	0	0	0	0	0	9	0	0	1	5	0	0	64	191
05:10:00 PM	3	0	1	0	0	0	0	0	0	3	2	0	1	7	0	0	57	194
05:15:00 PM	2	0	1	0	0	0	0	0	0	3	0	0	2	4	0	0	48	189
05:20:00 PM	1	0	1	0	0	0	0	0	0	6	2	0	1	4	0	0	44	192
05:25:00 PM	2	0	1	0	0	0	0	0	0	2	1	0	1	3	0	0	37	189
05:30:00 PM	2	0	3	0	0	0	0	0	0	6	1	0	1	4	0	0	42	191
05:35:00 PM	0	0	2	0	0	0	0	0	0	4	5	0	1	1	0	0	40	196
05:40:00 PM	1	0	2	0	0	0	0	0	0	2	3	0	0	4	0	0	42	194
05:45:00 PM	0	0	1	0	0	0	0	0	0	8	1	0	0	7	0	0	42	193
05:50:00 PM	2	0	0	0	0	0	0	0	0	2	1	0	1	5	0	0	40	188
05:55:00 PM	1	0	3	0	0	0	0	0	0	6	0	0	0	4	0	0	42	178

All Vehicle Volumes

		North	bound			South	bound			Easth	oound			West	bound			
		NE 1	2th St			NE 1	2th St			NE C	ak St			NE C	ak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
04:00:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04:05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04:10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:15:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:20:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:25:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:35:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:40:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:50:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:55:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:20:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:25:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:35:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:40:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:50:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:55:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1							Passeng	er vehicle		_	S	1				T	
			bound				bound				oound				bound			
			2th St				2th St				ak St				ak St		15 Min	
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
04:00:00 PM	3	0	1	0	0	0	0	0	0	2	1	0	1	6	0	0		
04:05:00 PM	2	0	1	0	0	0	0	0	0	4	2	0	1	4	0	0		
04:10:00 PM	2	0	0	0	0	0	0	0	0	6	2	0	0	4	0	0	42	
04:15:00 PM	2	0	0	0	0	0	0	0	0	11	2	0	0	1	0	0	44	
04:20:00 PM	2	0	0	0	0	0	0	0	0	3	2	0	1	4	0	0	42	
04:25:00 PM	1	0	1	0	0	0	0	0	0	4	2	0	0	5	0	0	41	
04:30:00 PM 04:35:00 PM	0	0	0	0	0	0	0	0	0	2	1	0	2	3	0	0	40 36	
04:40:00 PM	8	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	37	
04:40:00 PM	2	0	1	0	0	0	0	0	0	7	2	0	1	5	0	0	40	
04:45:00 PM	2	0	0	0	0	0	0	0	0	8	2	0	1	3	0	0	48	
04:55:00 PM	0	0	4	0	0	0	0	0	0	6	4	0	1	9	0	0	58	178
05:00:00 PM	1	0	3	0	0	0	0	0	0	9	1	0	0	7	0	0	61	185
05:05:00 PM	3	0	1	0	0	0	0	0	0	9	0	0	1	5	0	0	64	190
05:10:00 PM	3	0	1	0	0	0	0	0	0	3	2	0	1	7	0	0	57	193
05:15:00 PM	2	0	1	0	0	0	0	0	0	3	0	0	2	4	0	0	48	189
05:20:00 PM	1	0	1	0	0	0	0	0	0	6	2	0	1	4	0	0	44	192
55.25.00 T W		0		3	J	3		J	J	, 		J		-	J	-	-,-	102

04:50:00 PM

05:25:00 PM	2	0	1	0	0	0	0	0	0	2	1	0	1	3	0	0	37	189
05:30:00 PM	2	0	3	0	0	0	0	0	0	6	1	0	1	4	0	0	42	191
05:35:00 PM	0	0	2	0	0	0	0	0	0	4	5	0	1	1	0	0	40	196
05:40:00 PM	1	0	2	0	0	0	0	0	0	2	3	0	0	4	0	0	42	194
05:45:00 PM	0	0	1	0	0	0	0	0	0	8	1	0	0	7	0	0	42	193
05:50:00 PM	2	0	0	0	0	0	0	0	0	2	1	0	1	5	0	0	40	188
05:55:00 PM	1	0	3	0	0	0	0	0	0	6	0	0	0	4	0	0	42	178
							FHV	VA 4-13	-Truck/M	ulti-Unit/	Heavy Tr	rucks						
		North	bound			South	bound			Eastl	oound			West	bound			
		NE 1	2th St			NE 12	2th St			NE C	Oak St			NE C	Oak St		15 Min	1 HR
Time	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Left	Thru	Right	Uturn	Sum	Sum
04:00:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04:05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04:10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:15:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
04:20:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
04:25:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
04:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:35:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:40:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:50:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:55:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:15:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:20:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:25:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:35:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:40:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:50:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:55:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P	edestria	ns Cross	ing		15 Min	1 HR												
Time	NB	SB	EB	WB	Sum	Sum												
04:00:00 PM	0	0	0	0														
04:05:00 PM	0	0	0	0														
04:10:00 PM	0	0	0	0	0													
04:15:00 PM	0	0	0	0	0													
04:20:00 PM	0	0	0	0	0													
04:25:00 PM	0	0	0	0	0													
04:30:00 PM	0	0	0	0	0													
04:35:00 PM	0	0	0	0	0													
04:40:00 PM	0	0	0	0	0													
04:45:00 PM	0	0	0	0	0													

04:55:00 PM	0	0	0	0	0	0
05:00:00 PM	0	0	0	0	0	0
05:05:00 PM	0	0	0	0	0	0
05:10:00 PM	0	0	0	0	0	0
05:15:00 PM	0	0	0	0	0	0
05:20:00 PM	0	0	0	0	0	0
05:25:00 PM	0	0	0	0	0	0
05:30:00 PM	0	0	0	0	0	0
05:35:00 PM	0	0	0	0	0	0
05:40:00 PM	0	0	0	0	0	0
05:45:00 PM	0	0	0	0	0	0
05:50:00 PM	2	0	0	0	2	2
05:55:00 PM	0	0	0	1	3	3

Intersection												
Int Delay, s/veh	2.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	EDL		EDK	WDL		WDR	INDL		NDK	JDL		SDR
Traffic Vol, veh/h	0	♣ 72	31	12	♣ 53	1	30	4	6	1	♣ 5	5
Future Vol, veh/h	0	72	31	12	53	1	30	2	6	1	5	5
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	2	2	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	Jiop -	Jiop -	None	- Jiop	Jiop -	None
Storage Length	_	_	-	_	_	-	_	_	-	_	_	TVOTIC
Veh in Median Storage,		0	_	_	0	_	_	0	_	_	0	_
Grade, %	-	0	_	_	0	_	_	0	_	_	0	_
Peak Hour Factor	84	84	84	84	84	84	84	84	84	84	84	84
Heavy Vehicles, %	0	6	6	0	2	0	0	0	17	100	0	20
Mymt Flow	0	86	37	14	63	1	36	2	7	1	6	6
			0.	• •		•		_	•	•		
Major/Minor N	1ajor1		ı	Major2		N	Minor1		N	/linor2		
		0			0			107			215	4.1
Conflicting Flow All	64	0	0	123	0	0	203 105	197 105	107	203 92	215 92	64
Stage 1	-	-	-	-	-	-	98	92	-	111	123	-
Stage 2 Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.37	8.1	6.5	6.4
Critical Hdwy Stg 1	4.1	-	-	4.1	-	-	6.1	5.5	0.37	7.1	5.5	0.4
Critical Hdwy Stg 2	-	-	-	-		-	6.1	5.5	-	7.1	5.5	-
Follow-up Hdwy	2.2	-	_	2.2	-	_	3.5		3.453	4.4	3.5	3.48
Pot Cap-1 Maneuver	1551	-	-	1477	-		759	702	908	585	686	952
Stage 1	1001			-			906	812	700	722	823	732
Stage 2		_	_		_	_	913	823		703	798	
Platoon blocked, %		_	_		-	-	710	020		, 00	, ,0	
Mov Cap-1 Maneuver	1551	_	_	1477	_	_	744	695	906	573	679	952
Mov Cap-2 Maneuver	-	_	_	-	_	_	744	695	-	573	679	-
Stage 1	-	-	-	-	-	-	906	812	-	722	815	-
Stage 2	-	-	-	-	-	-	892	815	-	694	798	-
- · · · · · · ·												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0			1.4			10			9.8		
HCM LOS							В			A		
										,,		
Minor Lane/Major Mvmt		NBLn1	EBL	EBT	EBR	WBL	WBT	WBR:	SBI n1			
Capacity (veh/h)		763	1551		-	1477	-	-	766			
HCM Lane V/C Ratio		0.059	-	_	-	0.01	-		0.017			
HCM Control Delay (s)		10	0	_	_	7.5	0	_	9.8			
HCM Lane LOS		В	A	_	-	7.5 A	A	_	7.0 A			
HCM 95th %tile Q(veh)		0.2	0			0	-		0.1			
113141 70111 701110 Q(VOII)		0.2	- 0			-			J. 1			

Intersection												
Int Delay, s/veh	1.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	6	75	2	0	54	5	2	0	0	5	0	12
Future Vol, veh/h	6	75	2	0	54	5	2	0	0	5	0	12
Conflicting Peds, #/hr	4	0	1	1	0	4	0	0	1	1	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	17	7	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	7	85	2	0	61	6	2	0	0	6	0	14
Major/Minor	Major1		1	Major2		<u> </u>	/linor1		N	/linor2		
Conflicting Flow All	71	0	0	88	0	0	172	172	88	169	170	68
Stage 1	-	-	-	-	-	-	101	101	-	68	68	-
Stage 2	-	-	-	-	-	-	71	71	-	101	102	-
Critical Hdwy	4.27	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.353	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1439	-	-	1520	-	-	796	725	976	799	727	1001
Stage 1	-	-	-		-	-	910	815	-	947	842	-
Stage 2	-	-	-	-	-	-	944	840	-	910	815	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1434	-	-	1519	-	-	782	718	974	792	720	997
Mov Cap-2 Maneuver	-	-	-	-	-	-	782	718	-	792	720	-
Stage 1	-	-	-	-	-	-	905	810	-	938	839	-
Stage 2	-	-	-	-	-	-	931	837	-	905	810	-
ŭ												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.5			0			9.6			9		
HCM LOS							Α			Α		
Minor Lane/Major Mvm	nt I	VBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1			
Capacity (veh/h)		782	1434	-	-	1519	-	-	926			
HCM Lane V/C Ratio		0.003		-	-	-	-	-	0.021			
HCM Control Delay (s)		9.6	7.5	0	-	0	-	-	9			
HCM Lane LOS		A	A	A	-	A	-	-	Α			
HCM 95th %tile Q(veh))	0	0	-	-	0	-	-	0.1			

Intersection						
Int Delay, s/veh	1					
		EDD	MA	WOT	ND	NDD
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	Þ			ની	¥	
Traffic Vol, veh/h	56	16	3	43	8	3
Future Vol, veh/h	56	16	3	43	8	3
Conflicting Peds, #/hr	0	1	1	0	2	10
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, F		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	75	75	75	75	75	75
Heavy Vehicles, %	7	0	0	5	0	0
Mvmt Flow	75	21	4	57	11	4
N. 1. (N. 8)		-				
	ajor1		Major2		Minor1	
Conflicting Flow All	0	0	97	0	154	97
Stage 1	-	-	-	-	87	-
Stage 2	-	-	-	-	67	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1509	-	842	965
Stage 1	-	-	-	-	941	-
Stage 2	-	-	-	-	961	-
Platoon blocked, %	-	_			,01	
Mov Cap-1 Maneuver	_		1508	-	837	955
Mov Cap-1 Maneuver		•	1000	-	837	900
	-	-				
Stage 1	-	-	-	-	940	-
Stage 2	-	-	-	-	956	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.5		9.2	
HCM LOS	U		0.0		Α.2	
TIOWI LOG						
Minor Lane/Major Mvmt		VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		866	-	-	1508	-
HCM Lane V/C Ratio		0.017	-	-	0.003	-
HCM Control Delay (s)		9.2	-	-		0
HCM Lane LOS		Α	-	-	Α	A
		0.1				
HCM 95th %tile Q(veh)		() [-	-	0	-

Int Delay, s/veh	Intersection												
Movement		3.2											
Traffic Vol, veh/h		EDI	EDT	EDD	WDI	WDT	WDD	MDI	NIDT	NDD	CDI	CDT	CDD
Traffic Vol, veh/h Fruture Vol, veh/h Free Free Free Free Free Free Free Fre		FBL		EBK	WBL		WBR	INRL		NRK	SBL		SBK
Future Vol, veh/h Conflicting Peds, #hr I O O O O O O O O O O O O O O O O O O		г		02	10		2	Ε.4		11	1		г
Conflicting Peds, #/hr													
Sign Control Free Free	·												
RT Channelized None - None	•												
Storage Length			riee					•	•			•	
Veh in Median Storage, # - 0			-			-	None		-				NOTIC
Grade, % - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 0 8 7 100 8 20 Major/Minor Major Major Major Minor Minor Minor Minor 1 5 5 5 9 14 15 1 13 5 Major/Minor Major Major Major Minor Minor Minor Minor 1 1 1 1 1 1 1 1 1 1 1 1 1			<u>-</u> 0			0			<u>-</u> 0				-
Peak Hour Factor													
Heavy Vehicles, %													
Mymt Flow 5 121 102 21 95 2 59 14 15 1 13 5 Major/Minor Major1 Major2 Minor1 Minor2													
Major/Minor Major1													
Conflicting Flow All	WWW.Tiow		121	102	21	70	_	07	• • •	10	•	10	U
Conflicting Flow All 98 0 0 223 0 0 329 322 172 336 372 97 Stage 1 182 182 - 139 139 - Stage 2 182 182 - 139 139 - Stage 2 147 140 - 197 233 - Critical Hdwy 4.1 4.1 7.1 6.58 6.27 8.1 6.58 6.4 Critical Hdwy Stg 1 6.1 5.58 - 7.1 5.58 - Critical Hdwy Stg 2 6.1 5.58 - 7.1 5.58 - To 5.8 5.8 - 7.1 5.58 - Critical Hdwy Stg 2 6.1 5.58 - 7.1 5.58 - To 6.1 5.58 - 7.1 5.58 - 7.1 5.58 - To 6.1 5.58 - 7.1 5.58 - 7.1 5.58 - To 6.1 5.58 - 7.1 5.58 - 7.1 5.58 - To 6.1	Major/Minor	laior1			Majora		N	linor1		N	/liner?		
Stage 1			^			0			222			272	07
Stage 2				U									
Critical Hdwy 4.1 - 4.1 - - 7.1 6.58 6.27 8.1 6.58 6.4 Critical Hdwy Stg 1 - - - - - 6.1 5.58 - 7.1 5.58 - Critical Hdwy Stg 2 - - - - 6.1 5.58 - 7.1 5.58 - Follow-up Hdwy 2.2 - - 2.2 - - 6.1 5.58 - 7.1 5.58 - Follow-up Hdwy 2.2 - - 2.2 - - 6.1 5.58 - 7.1 5.58 - Follow-up Hdwy 2.2 - - 2.2 - - 6.28 586 859 468 549 912 Stage 1 - - - - - 860 769 - 624 701 - Stage 1 - - - 1358 - - 604 574 859 444 537 -	U	-		-	-								
Critical Hdwy Stg 1 - - - - - 6.1 5.58 - 7.1 5.58 - Critical Hdwy Stg 2 - - - - - 6.1 5.58 - 7.1 5.58 - Follow-up Hdwy 2.2 - - 2.2 - - 3.5 4.072 3.363 4.4 4.072 3.48 Pot Cap-1 Maneuver 1508 - - 1358 - - 628 586 859 468 549 912 Stage 1 - - - - - 860 769 - 624 701 - Stage 2 - - - - - - 860 769 - 624 701 - Mov Cap-1 Maneuver 1507 - 1358 - - 604 574 859 444 537 911 Mov Cap-2 Maneuver - - - - 821 735 - 673 757 - S		11		-	- / 1								
Critical Hdwy Stg 2 - - - - 6.1 5.58 - 7.1 5.58 - Follow-up Hdwy 2.2 - - 2.2 - - 3.5 4.072 3.363 4.4 4.072 3.48 Pot Cap-1 Maneuver 1508 - 1358 - - 628 586 859 468 549 912 Stage 1 - - - - - 824 738 - 676 770 - Stage 2 - - - - - 860 769 - 624 701 - Platoon blocked, % - - - - - 604 574 859 444 537 911 Mov Cap-1 Maneuver 1507 - 1358 - - 604 574 859 444 537 - 532 532 536 558 575 559 <t< td=""><td></td><td></td><td></td><td>-</td><td>4.1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.4</td></t<>				-	4.1								0.4
Follow-up Hdwy 2.2 - 2.2 - 3.5 4.072 3.363 4.4 4.072 3.48 Pot Cap-1 Maneuver 1508 - 1358 - 628 586 859 468 549 912 Stage 1 824 738 - 676 770 - 824 738 - 676 770 - 824 738 - 676 770 - 824 738 - 676 770 - 824 738 - 676 770 - 824 738 - 676 770 - 824 738 - 676 770 - 824 738 - 676 770 - 824 738 - 676 770 - 824 738 - 676 770 - 824 738 - 676 770 - 824 738 - 676 770 - 824 738 - 624 701 - 824 738 - 624 701 - 824 738 - 624 701 - 824 738 - 624 701 - 824 738 - 624 701 - 824 738 - 624 701 - 824 738 - 624 701 - 824 738 - 624 701 - 824 738 - 624 701 - 824 738 - 624 701 - 824 738 - 624 701 - 824 738 - 624 701 - 824 738 - 624 701 - 824 738 7 - 824 738 - 624 701 - 824 738 7 - 8				-	-								-
Pot Cap-1 Maneuver	3 0			-									
Stage 1 - - - - 824 738 - 676 770 - Stage 2 - - - - 860 769 - 624 701 - Platoon blocked, % - - - - - - - - 604 574 859 444 537 911 Mov Cap-1 Maneuver - - - - 604 574 859 444 537 911 Mov Cap-2 Maneuver - - - - 604 574 - 444 537 - - Stage 1 - - - - 821 735 - 673 757 - - Stage 2 - - - - 826 756 - 599 698 - Approach EB WB WB WB WB B B B B B			-	-		-							
Stage 2 - - - - 860 769 - 624 701 - Platoon blocked, % - <		1308	-		1900	-							
Platoon blocked, %		-	-	-	-								
Mov Cap-1 Maneuver 1507 - - 1358 - - 604 574 859 444 537 911 Mov Cap-2 Maneuver - - - - - 604 574 - 444 537 - Stage 1 - - - - - 821 735 - 673 757 - Stage 2 - - - - - 826 756 - 599 698 - Approach EB WB NB SB SB HCM Control Delay, s 0.2 1.4 11.6 11.2 HCM Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 631 1507 - 1358 - - 598 HCM Lane V/C Ratio 0.141 0.004 - 0.015 - - 0.033		-	-	-	•			000	709	-	024	701	-
Mov Cap-2 Maneuver - - - - 604 574 - 444 537 - Stage 1 - - - - - 821 735 - 673 757 - Stage 2 - - - - - 826 756 - 599 698 - Approach EB WB NB NB SB HCM Control Delay, s 0.2 1.4 11.6 11.2 HCM Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 631 1507 - - 1358 - - 598 HCM Lane V/C Ratio 0.141 0.004 - - 0.015 - - 0.033 HCM Control Delay (s) 11.6 7.4 0 - 7.7 0 - 11.2 HCM Lane LOS B A		1507		-	1358			604	574	850	411	527	911
Stage 1 - - - - 821 735 - 673 757 - Stage 2 - - - - 826 756 - 599 698 - Approach EB WB NB SB HCM Control Delay, s 0.2 1.4 11.6 11.2 HCM LOS B B B B Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 631 1507 - - 1358 - - 598 HCM Lane V/C Ratio 0.141 0.004 - - 0.015 - - 0.033 HCM Control Delay (s) 11.6 7.4 0 - 7.7 0 - 11.2 HCM Lane LOS B A A - A A - B	•				1550								
Stage 2				-		-							
Approach EB WB NB SB HCM Control Delay, s 0.2 1.4 11.6 11.2 HCM LOS B B B Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 631 1507 - - 1358 - - 598 HCM Lane V/C Ratio 0.141 0.004 - - 0.015 - - 0.033 HCM Control Delay (s) 11.6 7.4 0 - 7.7 0 - 11.2 HCM Lane LOS B A A - A A - B	· · ·						_						
HCM Control Delay, s 0.2 1.4 11.6 11.2 HCM LOS B B Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 631 1507 1358 598 HCM Lane V/C Ratio 0.141 0.004 0.015 0.033 HCM Control Delay (s) 11.6 7.4 0 - 7.7 0 - 11.2 HCM Lane LOS B A A - A A - B	Stage Z	_		-			_	020	130	_	311	070	-
HCM Control Delay, s 0.2 1.4 11.6 11.2 HCM LOS B B Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 631 1507 1358 598 HCM Lane V/C Ratio 0.141 0.004 0.015 0.033 HCM Control Delay (s) 11.6 7.4 0 - 7.7 0 - 11.2 HCM Lane LOS B A A - A A - B	A				1410			NE			0.5		
Minor Lane/Major Mvmt NBLn1 EBL EBR WBL WBT WBR SBLn1 Capacity (veh/h) 631 1507 - - 1358 - - 598 HCM Lane V/C Ratio 0.141 0.004 - - 0.015 - - 0.033 HCM Control Delay (s) 11.6 7.4 0 - 7.7 0 - 11.2 HCM Lane LOS B A A - A A - B													
Minor Lane/Major Mvmt NBLn1 EBL EBR WBL WBT WBR SBLn1 Capacity (veh/h) 631 1507 - - 1358 - - 598 HCM Lane V/C Ratio 0.141 0.004 - - 0.015 - - 0.033 HCM Control Delay (s) 11.6 7.4 0 - 7.7 0 - 11.2 HCM Lane LOS B A A - A A - B		0.2			1.4								
Capacity (veh/h) 631 1507 1358 598 HCM Lane V/C Ratio 0.141 0.004 0.015 0.033 HCM Control Delay (s) 11.6 7.4 0 - 7.7 0 - 11.2 HCM Lane LOS B A A - A A - B	HCM LOS							В			В		
Capacity (veh/h) 631 1507 1358 598 HCM Lane V/C Ratio 0.141 0.004 0.015 0.033 HCM Control Delay (s) 11.6 7.4 0 - 7.7 0 - 11.2 HCM Lane LOS B A A - A A - B													
HCM Lane V/C Ratio 0.141 0.004 - - 0.015 - - 0.033 HCM Control Delay (s) 11.6 7.4 0 - 7.7 0 - 11.2 HCM Lane LOS B A - A A - B			NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1			
HCM Lane V/C Ratio 0.141 0.004 - - 0.015 - - 0.033 HCM Control Delay (s) 11.6 7.4 0 - 7.7 0 - 11.2 HCM Lane LOS B A A - A A - B	Capacity (veh/h)		631	1507	-	-	1358	-	-	598			
HCM Lane LOS B A A - A A - B			0.141	0.004	-	-	0.015	-	-	0.033			
	HCM Control Delay (s)		11.6	7.4	0	-	7.7	0	-	11.2			
LICM 05th 9/tile O(yeh) 0.5 0.00					Α	-		Α	-				
	HCM 95th %tile Q(veh)		0.5	0	-	-	0	-	-	0.1			

Intersection												
Int Delay, s/veh	2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	19	90	7	0	89	10	9	0	1	8	2	15
Future Vol, veh/h	19	90	7	0	89	10	9	0	1	8	2	15
Conflicting Peds, #/hr	1	0	0	0	0	1	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	76	76	76	76	76	76	76	76	76	76	76	76
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	25	118	9	0	117	13	12	0	1	11	3	20
Major/Minor N	/lajor1		1	Major2		N	Minor1		N	/linor2		
Conflicting Flow All	131	0	0	127	0	0	308	304	123	298	302	125
Stage 1	-	-	-	-	-	-	173	173	-	125	125	-
Stage 2	-	-	-	-	-	-	135	131	-	173	177	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1467	-	-	1472	-	-	648	613	933	658	614	931
Stage 1	-	-	-	-	-	-	834	760	-	884	796	-
Stage 2	-	-	-	-	-	-	873	792	-	834	756	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1466	-	-	1472	-	-	623	601	933	647	602	930
Mov Cap-2 Maneuver	-	-	-	-	-	-	623	601	-	647	602	-
Stage 1	-	-	-	-	-	-	819	746	-	867	795	-
Stage 2	-	-	-	-	-	-	852	791	-	818	742	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	1.2			0			10.7			9.8		
HCM LOS							В			Α		
Minor Lane/Major Mvm	t N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1			
Capacity (veh/h)		644	1466	-	-	1472	-	-	786			
HCM Lane V/C Ratio			0.017	-	-	-	-	-	0.042			
HCM Control Delay (s)		10.7	7.5	0	-	0	-	-	9.8			
HCM Lane LOS		В	Α	A	-	A	-	-	Α			
HCM 95th %tile Q(veh)		0.1	0.1	-	-	0	-	-	0.1			

Intersection						
Int Delay, s/veh	2.2					
	EBT	EBR	WBL	WBT	NBL	NBR
		EDR	WDL		NDL W	NDK
Lane Configurations	}	าา	10	4		20
Traffic Vol, veh/h	66	22	10	58	17	20
Future Vol, veh/h	66	22	10	58	17	20
Conflicting Peds, #/hr	0	0	0	_ 0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	75	75	75	75	75	75
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	88	29	13	77	23	27
Major/Minor NA	nior1		/loic=2		liner1	
	ajor1		Major2		/linor1	400
Conflicting Flow All	0	0	117	0	206	103
Stage 1	-	-	-	-	103	-
Stage 2	-	-	-	-	103	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1484	-	787	957
Stage 1	-	-	-	-	926	-
Stage 2	-	-	-	-	926	-
Platoon blocked, %	-	-				
Mov Cap-1 Maneuver	_	_	1484	_	780	957
Mov Cap-1 Maneuver	_		-		780	737
Stage 1	_	-	_		926	-
		-		-		
Stage 2	-	-	-	-	918	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		1.1		9.4	
HCM LOS					A	
					,,	
		UDI 1			14.5	14/5-
Minor Lane/Major Mvmt	1	VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		867	-		1484	-
HCM Lane V/C Ratio		0.057	-	-	0.009	-
HCM Control Delay (s)		9.4	-	-	7.4	0
HCM Lane LOS		Α	-	-	Α	Α
HCM 95th %tile Q(veh)		0.2	-	-	0	-

Intersection												
Int Delay, s/veh	2.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	EDL	4	EDK	WDL	₩DI	WDK	NDL		NDK	SDL	3B1 ♣	SDK
Traffic Vol, veh/h	0	76	33	13	56	1	32	4	6	1	5	5
Future Vol, veh/h	0	76	33	13	56	1	32	2	6	1	5	5
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	2	2	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	Jiop -	- -	None	Jiop -	Jiop -	None
Storage Length	_	_	-		_	-	_	_	-	_	_	-
Veh in Median Storage,	.# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0			0		-	0		-	0	
Peak Hour Factor	84	84	84	84	84	84	84	84	84	84	84	84
Heavy Vehicles, %	0	6	6	0	2	0	0	0	17	100	0	20
Mvmt Flow	0	90	39	15	67	1	38	2	7	1	6	6
Major/Minor N	/lajor1		ľ	Major2		ľ	Minor1		N	/linor2		
Conflicting Flow All	68	0	0	129	0	0	214	208	112	214	227	68
Stage 1	-	-	-	-	-	-	110	110	-	98	98	-
Stage 2	-	-	-	-	-	-	104	98	-	116	129	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.37	8.1	6.5	6.4
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	7.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	7.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.453	4.4	4	3.48
Pot Cap-1 Maneuver	1546	-	-	1469	-	-	747	692	902	575	676	947
Stage 1	-	-	-	-	-	-	900	808	-	716	818	-
Stage 2	-	-	-	-	-	-	907	818	-	698	793	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1546	-	-	1469	-	-	731	684	900	563	669	947
Mov Cap-2 Maneuver	-	-	-	-	-	-	731	684	-	563	669	-
Stage 1	-	-	-	-	-	-	900	808	-	716	809	-
Stage 2	-	-	-	-	-	-	885	809	-	689	793	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0			1.4			10.1			9.8		
HCM LOS							В			Α		
Minor Lane/Major Mvm	t N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1			
Capacity (veh/h)		750	1546	-		1469	-	-	757			
HCM Lane V/C Ratio		0.063	-	-		0.011	-	-	0.017			
HCM Control Delay (s)		10.1	0	-	-	7.5	0	-	9.8			
HCM Lane LOS		В	Α	-	-	Α	Α	-	Α			
HCM 95th %tile Q(veh)		0.2	0	-	-	0	-	-	0.1			

Intersection												
Int Delay, s/veh	1.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	6	79	2	0	57	5	2	0	0	5	0	13
Future Vol, veh/h	6	79	2	0	57	5	2	0	0	5	0	13
Conflicting Peds, #/hr	4	0	1	1	0	4	0	0	1	1	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	.,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	17	7	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	7	90	2	0	65	6	2	0	0	6	0	15
Major/Minor I	Major1			Major2		<u> </u>	Minor1		<u> </u>	Minor2		
Conflicting Flow All	75	0	0	93	0	0	182	181	93	178	179	72
Stage 1	-	-	-	-	-	-	106	106	-	72	72	-
Stage 2	-	-	-	-	-	-	76	75	-	106	107	-
Critical Hdwy	4.27	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.353	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1434	-	-	1514	-	-	784	717	970	789	718	996
Stage 1	-	-	-	-	-	-	905	811	-	943	839	-
Stage 2	-	-	-	-	-	-	938	836	-	905	811	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1429	-	-	1513	-	-	768	710	968	782	711	992
Mov Cap-2 Maneuver	-	-	-	-	-	-	768	710	-	782	711	-
Stage 1	-	-	-	-	-	-	900	806	-	935	836	-
Stage 2	-	-	-	-	-	-	924	833	-	900	806	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.5			0			9.7			9		
HCM LOS							Α			Α		
Minor Lane/Major Mvm	nt N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1			
Capacity (veh/h)			1429	-		1513	-	-	923			
HCM Lane V/C Ratio		0.003		-	-	-	_	-	0.022			
HCM Control Delay (s)		9.7	7.5	0	-	0	-	-	9			
HCM Lane LOS		Α	Α	A	-	A	-	-	A			
HCM 95th %tile Q(veh)		0	0	-	-	0	-	-	0.1			

0.9					
	EDD	WDI	WDT	NDI	NDD
	FRK	WBL			NBR
					3
					3
					10
Free		Free		Stop	Stop
-	None	-	None	-	None
-	-	-	-	0	-
# 0	-	-	0	0	-
0	-	-	0	0	-
75	75	75	75	75	75
7	0	0	5	0	0
79	23	4	60	11	4
0	0	103	0		102
-	-	-	-		-
-	-	-	-	70	-
-	-	4.1	-	6.4	6.2
-	-	-	-	5.4	-
-	-	-	-	5.4	-
-	-	2.2	-	3.5	3.3
-	-	1502	-	834	959
-	-	-	-	937	-
-	-	-	-		-
_	_		-	,,,,	
	_	1501		820	949
	_				/T/ -
	-				
-	-		-		
-	-	-	-	953	-
EB		WB		NB	
0		0.5		9.3	
				Α	
	UDL -4	ERT	EDD	WDI	WDT
t N	NBLn1	EBT	EBR	WBL	WBT
t N	859	EBT -	-	1501	WBT -
t r	859 0.017	EBT - -	-	1501 0.003	-
<u>i N</u>	859 0.017 9.3	-	-	1501 0.003 7.4	- - 0
t r	859 0.017	-	-	1501 0.003	-
	EBT 59 59 0 Free # 0 0 75 7 79 ajor1	EBT EBR 59 17 59 17 0 1 Free Free - None 0 - 75 75 7 0 79 23 ajor1 N 0 0	EBT EBR WBL 59 17 3 59 17 3 0 1 1 Free Free Free - None 0 75 75 75 75 7 0 0 79 23 4 ajor1 Major2 0 0 103 4.1 4.1 1501 1501	EBT EBR WBL WBT 59 17 3 45 59 17 3 45 0 1 1 0 Free Free Free Free - None None 0 0 0 75 75 75 75 7 0 0 5 79 23 4 60 ajor1 Major2 N 0 0 103 0 4.1 2.2 1502 1501 1501	EBT EBR WBL WBT NBL 59 17 3 45 8 59 17 3 45 8 0 1 1 0 2 Free Free Free Free Stop - None - None - O O O O 0 - O O O 75 75 75 75 75 7 0 0 5 0 79 23 4 60 11 ajor1 Major2 Minor1 0 0 103 0 162 92 92 5.4 5.4 1501 - 829 1501 - 829 1501 - 829 1501 - 829 1501 - 829 1501 - 829 936 953

Intersection												
Int Delay, s/veh	3.3											
		EDT	EDD	WDI	WDT	WDD	NDI	NDT	NDD	CDI	CDT	CDD
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	_	4	00	20	4	0	F-7	4	15	1	4	
Traffic Vol, veh/h	5	116	98	20	91	2	57	14	15	1	13	5
Future Vol, veh/h	5	116	98	20	91	2	57	14	15	1 0	13	5 0
Conflicting Peds, #/hr	1 From	0 Froo	0	0 Eroo	O From	1 Fron	0 Stop	0 Ctop	0 Stop		0 Ctop	
Sign Control RT Channelized	Free -	Free	Free None	Free -	Free -	Free None	Stop -	Stop	Stop None	Stop	Stop -	Stop None
Storage Length	-	-	None -	-	-	None	-	-	None -		-	None
Veh in Median Storage		0	-		0	_		0	-		0	
Grade, %	, π -	0		_	0	_	_	0	_	_	0	
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	0	1	2	0	2	0	0	8	7	100	8	20
Mvmt Flow	5	127	108	22	100	2	63	15	16	1	14	5
WWW. TOW		12,	100		100	_	00	10	10	•	• •	
Major/Minor N	Jaior1			Majora		N	Minor1		N	/linor2		
	Major1	0		Major2	0			220			201	102
Conflicting Flow All	103	0	0	235	0	0	346	338 191	181	353 146	391 146	102
Stage 1	-	-	-	-	-	-	191 155	147	-	207	245	-
Stage 2 Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.58	6.27	8.1	6.58	6.4
Critical Hdwy Stg 1	4.1	-	_	4.1	-	-	6.1	5.58	0.27	7.1	5.58	0.4
Critical Hdwy Stg 2		-	-		-	-	6.1	5.58	-	7.1	5.58	
Follow-up Hdwy	2.2	-		2.2	-	-	3.5	4.072		4.4	4.072	3.48
Pot Cap-1 Maneuver	1502		_	1344	_		612	574	849	455	535	906
Stage 1	-	_	_	-	_	_	815	731	-	670	765	- 700
Stage 2	-	-	-	-	-	-	852	764	-	616	692	-
Platoon blocked, %		-	_		-	-						
Mov Cap-1 Maneuver	1501	-	-	1344	-	-	586	561	849	430	523	905
Mov Cap-2 Maneuver	-	-	-	-	-	-	586	561	-	430	523	-
Stage 1	-	-	-	-	-	-	812	728	-	667	751	-
Stage 2	-	-	-	-	-	-	817	750	-	589	689	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.2			1.4			11.9			11.4		
HCM LOS							В			В		
Minor Lane/Major Mvm	† 1	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBI n1			
Capacity (veh/h)	. 1	615	1501	-		1344	-	- VVDIC	581			
HCM Lane V/C Ratio		0.154	0.004	-		0.016			0.036			
HCM Control Delay (s)		11.9	7.4	0	-	7.7	0					
HCM Lane LOS		B	Α.4	A		Α.	A	_	В			
HCM 95th %tile Q(veh)		0.5	0	-	-	0.1	-	_	0.1			
		3.0				3.1			J. 1			

Intersection												
Int Delay, s/veh	2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	20	95	7	0	94	11	10	0	1	8	2	16
Future Vol, veh/h	20	95	7	0	94	11	10	0	1	8	2	16
Conflicting Peds, #/hr	1	0	0	0	0	1	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	76	76	76	76	76	76	76	76	76	76	76	76
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	26	125	9	0	124	14	13	0	1	11	3	21
Major/Minor N	/lajor1			Major2		<u> </u>	Minor1		<u> </u>	/linor2		
Conflicting Flow All	139	0	0	134	0	0	325	321	130	314	318	132
Stage 1	-	-	-	-	-	-	182	182	-	132	132	-
Stage 2	-	-	-	-	-	-	143	139	-	182	186	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1457	-	-	1463	-	-	632	599	925	643	602	923
Stage 1	-	-	-	-	-	-	824	753	-	876	791	-
Stage 2	-	-	-	-	-	-	865	785	-	824	750	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1456	-	-	1463	-	-	607	587	925	632	590	922
Mov Cap-2 Maneuver	-	-	-	-	-	-	607	587	-	632	590	-
Stage 1	-	-	-	-	-	-	808	739	-	858	790	-
Stage 2	-	-	-	-	-	-	842	784	-	807	736	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	1.2			0			10.9			9.8		
HCM LOS							В			Α		
Minor Lane/Major Mvm	t ſ	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1			
Capacity (veh/h)		627	1456	-	-	1463	-	-	778			
HCM Lane V/C Ratio		0.023		-	-	-	-	-	0.044			
HCM Control Delay (s)		10.9	7.5	0	-	0	-	-	9.8			
HCM Lane LOS		В	A	A	-	A	-	-	A			
HCM 95th %tile Q(veh)		0.1	0.1	-	-	0	-	-	0.1			

Intersection						
Int Delay, s/veh	2.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	7	LDI	WDL	4	¥	NDIX
Traffic Vol, veh/h	70	23	11	61	18	21
Future Vol, veh/h	70	23	11	61	18	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	- Jiop	None
Storage Length	-	NOILE	_	NONE -	0	INUITE -
Veh in Median Storage,				0	0	
Grade, %	# 0 0		-	0	0	
		- 70		75		- 75
Peak Hour Factor	75	75	75		75	75
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	93	31	15	81	24	28
Major/Minor M	lajor1	N	/lajor2	N	/linor1	
Conflicting Flow All	0	0	124	0	220	109
Stage 1	-	-	-	-	109	-
Stage 2	-	-	-	-	111	-
Critical Hdwy	_	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1		-	-	-	5.4	-
Critical Hdwy Stg 2	-	_	_	_	5.4	_
Follow-up Hdwy	_	_	2.2	_	3.5	3.3
Pot Cap-1 Maneuver	_	_	1475	_	773	950
Stage 1	_	_	- 1170	_	921	700
Stage 2	_	_	_	_	919	_
Platoon blocked, %	-	-	-	-	717	-
Mov Cap-1 Maneuver			1475		764	950
•	-	-	14/3	-	764	900
Mov Cap-2 Maneuver	-	-	-	-		-
Stage 1	-	•	-	-	921	-
Stage 2	-	-	-	-	909	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		1.1		9.5	
HCM LOS					Α	
Ndimon Long /Nd - Long No.		UDL 4	EDT	EDD	MDI	WET
Minor Lane/Major Mvmt	- [VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		854	-		1475	-
HCM Lane V/C Ratio		0.061	-	-		-
HCM Control Delay (s)		9.5	-	-		0
HCM Lane LOS		Α	-	-	Α	Α
HCM 95th %tile Q(veh)		0.2	-	-	0	-

Intersection												
Int Delay, s/veh	2.6											
		EDT	EDD	MDI	MOT	WDD	NDI	NDT	NDD	CDI	CDT	CDD
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	^	4	22	17	4	1	20	4	7	4	4	-
Traffic Vol, veh/h	0	80	33	17	65	1	32	2	7	1	5	5
Future Vol, veh/h	0	80	33	17	65	1	32	0	7	1 2	5 0	5 0
Conflicting Peds, #/hr Sign Control	0 Free	0 Free	0 Free	0 Free	0 Free	0 Free				Stop		Stop
RT Channelized	riee -	riee	None	riee -	riee -	None	Stop -	Stop -	Stop None	Siup -	Stop	None
Storage Length	_	_	NONE -	-	_	NONE -	-	_	None -	_	-	None
Veh in Median Storage	.# -	0			0	_	_	0			0	
Grade, %	-	0	_	_	0	_	-	0	-	_	0	_
Peak Hour Factor	84	84	84	84	84	84	84	84	84	84	84	84
Heavy Vehicles, %	0	6	6	0	2	0	0	0	17	100	0	20
Mvmt Flow	0	95	39	20	77	1	38	2	8	1	6	6
								_	_	•		_
Major/Minor N	/aior1		N	Majora		, n	/linor1		N	/linor2		
	/lajor1	0		Major2	^			222			252	70
Conflicting Flow All	78	0	0	134	0	0	239 115	233 115	117	240 118	252 118	78
Stage 1 Stage 2	-	-	-	-	-	-	124	118	-	118	134	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.37	8.1	6.5	6.4
Critical Hdwy Stg 1	4.1	-		4.1	_	-	6.1	5.5	0.37	7.1	5.5	0.4
Critical Hdwy Stg 2		_	_		_	_	6.1	5.5	-	7.1	5.5	
Follow-up Hdwy	2.2	_	_	2.2	_	_	3.5		3.453	4.4	4	3.48
Pot Cap-1 Maneuver	1533	-	-	1463	-	-	719	671	896	550	655	935
Stage 1	-	_	-		_	-	895	804	-	696	802	-
Stage 2	-	-	-	-	-	-	885	802	-	692	789	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1533	-	-	1463	-	-	702	662	894	537	646	935
Mov Cap-2 Maneuver	-	-	-	-	-	-	702	662	-	537	646	-
Stage 1	-	-	-	-	-	-	895	804	-	696	791	-
Stage 2	-	-	-	-	-	-	861	791	-	682	789	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0			1.5			10.3			10		
HCM LOS							В			В		
Minor Lane/Major Mvm	t N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR:	SRI n1			
Capacity (veh/h)	. 1	726	1533	LDT		1463	-	VVDIX -				
HCM Lane V/C Ratio		0.067	-	-		0.014	-		0.018			
HCM Control Delay (s)		10.3	0		_	7.5	0	_	10			
HCM Lane LOS		В	A	-	-	7.5 A	A	_	В			
HCM 95th %tile Q(veh)		0.2	0	-	-	0	-	-	0.1			
2(1011)												

Intersection												
Int Delay, s/veh	1.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	6	84	2	0	70	7	2	0	0	5	0	13
Future Vol, veh/h	6	84	2	0	70	7	2	0	0	5	0	13
Conflicting Peds, #/hr	4	0	1	1	0	4	0	0	1	1	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	17	7	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	7	95	2	0	80	8	2	0	0	6	0	15
Major/Minor I	Major1		1	Major2		<u> </u>	/linor1		N	/linor2		
Conflicting Flow All	92	0	0	98	0	0	203	203	98	199	200	88
Stage 1	-	-	-	-	-	-	111	111	-	88	88	-
Stage 2	-	-	-	-	-	-	92	92	-	111	112	-
Critical Hdwy	4.27	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.353	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1413	-	-	1508	-	-	759	697	963	764	699	976
Stage 1	-	-	-	-	-	-	899	807	-	925	826	-
Stage 2	-	-	-	-	-	-	920	823	-	899	807	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1408	-	_	1507	-	-	744	690	961	757	692	972
Mov Cap-2 Maneuver	-	-	-	-	-	-	744	690	-	757	692	-
Stage 1	-	-	-	-	-	-	894	802	-	917	823	-
Stage 2	-	-	-	-	-	-	906	820	-	894	802	-
-												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.5			0			9.9			9.1		
HCM LOS							Α			Α		
Minor Lane/Major Mvm	nt I	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1			
Capacity (veh/h)		744	1408	-	-	1507	-	-	901			
HCM Lane V/C Ratio		0.003		-	-	-	-	-	0.023			
HCM Control Delay (s)		9.9	7.6	0	-	0	-	-	9.1			
HCM Lane LOS		Α	A	A	-	A	-	-	Α			
HCM 95th %tile Q(veh))	0	0	-	-	0	-	-	0.1			

Intersection						
Int Delay, s/veh	1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1			4	¥	
Traffic Vol, veh/h	64	17	6	60	8	4
Future Vol, veh/h	64	17	6	60	8	4
Conflicting Peds, #/hr	0	1	1	0	2	10
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	- -	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage	e, # 0	_	-	0	0	_
Grade, %	0	-	-	0	0	_
Peak Hour Factor	75	75	75	75	75	75
	75					
Heavy Vehicles, %		0	0	5	0	0
Mvmt Flow	85	23	8	80	11	5
Major/Minor	Major1	N	Major2	ſ	Minor1	
Conflicting Flow All	0	0	109	0	196	108
Stage 1	-	-	-	-	98	-
Stage 2	-	-	-	-	98	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	_	_	-	5.4	_
Critical Hdwy Stg 2	_	_	_	-	5.4	_
Follow-up Hdwy	_	_	2.2	_	3.5	3.3
Pot Cap-1 Maneuver	_	_	1494	_	797	951
Stage 1	_	_	-	_	931	751
Stage 2					931	
Platoon blocked, %		-	-		731	-
	-		1493	-	700	941
Mov Cap-1 Maneuver	-	-		-	790	
Mov Cap-2 Maneuver	-	-	-	-	790	-
Stage 1	-	-	-	-	930	-
Stage 2	-	-	-	-	924	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.7		9.4	
HCM LOS	U		0.7		Α	
HOW EOS					/\	
Minor Lane/Major Mvm	nt i	VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		835	-	-	1493	-
HCM Lane V/C Ratio		0.019	-	-	0.005	-
HCM Control Delay (s)		9.4	-	-	7.4	0
HCM Lane LOS		Α	-	-	Α	Α
HCM 95th %tile Q(veh))	0.1	-	-	0	-

Intersection						
Int Delay, s/veh	1.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		स	†		¥	
Traffic Vol, veh/h	6	62	49	1	1	18
Future Vol, veh/h	6	62	49	1	1	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	2,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	75	75	75	75	75	75
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	8	83	65	1	1	24
NA - ' / NA'	N		4-10		A'	
	Major1		Major2		/linor2	
Conflicting Flow All	66	0	-	0	165	66
Stage 1	-	-	-	-	66	-
Stage 2	-	-	-	-	99	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1549	-	-	-	830	1003
Stage 1	-	-	-	-	962	-
Stage 2	-	-	-	-	930	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1549	-	-	-	826	1003
Mov Cap-2 Maneuver	-	-	-	-	826	-
Stage 1	-	-	-	-	957	-
Stage 2	-	-	-	-	930	-
Ŭ						
Annraach	ED		MD		CD	
Approach	EB		WB		SB	
HCM Control Delay, s	0.6		0		8.7	
HCM LOS					Α	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		1549	-	-	-	992
HCM Lane V/C Ratio		0.005	-	-	_	0.026
HCM Control Delay (s)		7.3	0	-	-	8.7
HCM Lane LOS		Α	A	-	-	Α
HCM 95th %tile Q(veh))	0	-	-	-	0.1

Intersection												
Int Delay, s/veh	3.3											
		EDT	EDD	WDI	WDT	WDD	NDI	NDT	NDD	CDI	CDT	CDD
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	_	4	00	20	4	2	F-7	4	10	1	4	_
Traffic Vol, veh/h	5	128	98	22	97	2	57	14	18	1	13	5
Future Vol, veh/h	5 1	128	98	22	97	2	57	14	18	1 0	13	5
Conflicting Peds, #/hr		0 Free	0	0 Eroo	0 Eroo	1 Fron	O Ctop	0 Stop	O Ctop		0 Ctop	
Sign Control RT Channelized	Free -	riee	Free None	Free -	Free -	Free None	Stop -	Stop	Stop None	Stop -	Stop -	Stop None
Storage Length	-	-	None -	-	-	None	-	-	None -	-	-	None
Veh in Median Storage		0	-		0		_	0	-		0	
Grade, %	, π -	0		_	0	-	_	0	_	_	0	
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	0	1	2	0	2	0	0	8	71	100	8	20
Mymt Flow	5	141	108	24	107	2	63	15	20	1	14	5
Military Ion		• • • •	100		107	_	00			•	•	J
Major/Minor N	/ajor1			Major?		N	linor1		N	/liner?		
	Major1	^		Major2	0		/linor1	2/2		/linor2	111	100
Conflicting Flow All	110	0	0	249	0	0	371	363	195	380	416	109
Stage 1	-	-	-	-	-	-	205	205	-	157	157 259	-
Stage 2 Critical Hdwy	4.1	-	-	4.1	-	-	166 7.1	158 6.58	6.27	223 8.1	6.58	6.4
Critical Hdwy Stg 1	4.1	-		4.1	-	-	6.1	5.58	0.27	7.1	5.58	0.4
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.58	-	7.1	5.58	-
Follow-up Hdwy	2.2	-	_	2.2	-	-	3.5	4.072		4.4	4.072	3.48
Pot Cap-1 Maneuver	1493	-	-	1328	-		589	555	834	435	518	898
Stage 1	1775	_	_	1020	_	_	802	721	- 034	660	756	- 070
Stage 2	_	_	_	_	_	_	841	756	_	602	683	_
Platoon blocked, %		_	_		_	_	011	,00		002	300	
Mov Cap-1 Maneuver	1492	-	_	1328	-	-	563	542	834	408	506	897
Mov Cap-2 Maneuver	-	-	-	-	-	-	563	542	-	408	506	-
Stage 1	-	-	-	-	-	-	799	718	-	657	741	-
Stage 2	-	-	-	-	-	-	804	741	-	573	680	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.2			1.4			12.2			11.6		
HCM LOS	0.2			1.7			В			В		
TIOM EGG												
Minor Long/Major Mare	+ N	IDI 51	EDI	EDT	EDD	WDI	WDT	WDD	CDI n1			
Minor Lane/Major Mvm	t ľ	VBLn1	EBL	EBT	EBR	WBL	WBT	WBR :				
Capacity (veh/h)		599	1492	-		1328	-	-	564			
HCM Control Dolay (c)		0.163	0.004 7.4	0	-	0.018	-	-	0.037			
HCM Control Delay (s) HCM Lane LOS		12.2 B	7.4 A	A	-	7.8 A	0	-	11.6 B			
HCM 95th %tile Q(veh)		0.6	0	- A	-	0.1	A -	-	0.1			
HOW 75th 70the Q(Veh)		0.0	U	-		0.1			0.1			

Intersection												
Int Delay, s/veh	1.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	20	110	7	0	102	13	10	0	1	10	2	16
Future Vol, veh/h	20	110	7	0	102	13	10	0	1	10	2	16
Conflicting Peds, #/hr	1	0	0	0	0	1	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	76	76	76	76	76	76	76	76	76	76	76	76
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	26	145	9	0	134	17	13	0	1	13	3	21
Major/Minor N	/lajor1			Major2		<u> </u>	Minor1			/linor2		
Conflicting Flow All	152	0	0	154	0	0	357	354	150	346	350	144
Stage 1	-	-	-	-	-	-	202	202	-	144	144	-
Stage 2	-	-	-	-	-	-	155	152	-	202	206	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1441	-	-	1439	-	-	602	574	902	612	577	909
Stage 1	-	-	-	-	-	-	805	738	-	864	782	-
Stage 2	-	-	-	-	-	-	852	775	-	805	735	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1440	-	-	1439	-	-	577	562	902	601	565	908
Mov Cap-2 Maneuver	-	-	-	-	-	-	577	562	-	601	565	-
Stage 1	-	-	-	-	-	-	789	723	-	846	781	-
Stage 2	-	-	-	-	-	-	829	774	-	788	720	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	1.1			0			11.2			10.1		
HCM LOS							В			В		
Minor Lane/Major Mvm	t ^	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBL _{n1}			
Capacity (veh/h)		597	1440		-	1439		-	741			
HCM Lane V/C Ratio		0.024		-	-	-	-	-	0.05			
HCM Control Delay (s)		11.2	7.5	0	-	0	-	-	10.1			
HCM Lane LOS		В	Α	Α	-	Α	-	-	В			
HCM 95th %tile Q(veh)		0.1	0.1	-	-	0	-	-	0.2			

2.2 EBT 87 87 0 Free - - - - - - - - - - - - -	23 23 0 Free None - - - 75 0 31	WBL 13 13 0 Free 75 0 17 Major2 147 - 4.1	WBT 71 71 0 Free None 0 0 75 0 95	NBL 18 18 0 Stop 0 0 75 0 24 Minor1 261 132 129 6.4 5.4	NBR 24 24 0 Stop None 75 0 32 132 - 6.2
87 87 0 Free - - 0 75 0 116 Major1 0 -	23 23 0 Free None - - - 75 0 31	13 13 0 Free - - - 75 0 17 Major2 147 - - 4.1	71 71 0 Free None 0 0 75 0 95	18 18 0 Stop 0 0 0 75 0 24 Minor1 261 132 129 6.4	24 24 0 Stop None - - - 75 0 32
87 87 0 Free - - 0 75 0 116 Major1 0 -	23 23 0 Free None - - - 75 0 31	13 13 0 Free - - - 75 0 17 Major2 147 - - 4.1	71 71 0 Free None 0 0 75 0 95	18 18 0 Stop 0 0 0 75 0 24 Minor1 261 132 129 6.4	24 24 0 Stop None - - - 75 0 32
87 87 0 Free - - - - - - - 0 75 0 116 Major1 - - - - - - - - - - - - - - - - - - -	23 0 Free None - - - 75 0 31	13 0 Free - - - 75 0 17 Major2 147 - - 4.1	71 71 0 Free None - 0 0 75 0 95	18 18 0 Stop 0 0 0 75 0 24 Minor1 261 132 129 6.4	24 0 Stop None - - 75 0 32
87 0 Free - - - - - 0 75 0 116 Major1 - -	23 0 Free None - - - 75 0 31	13 0 Free - - - 75 0 17 Major2 147 - - 4.1	71 0 Free None - 0 0 75 0 95	18 0 Stop 0 0 0 75 0 24 Minor1 261 132 129 6.4	24 0 Stop None - - 75 0 32
0 Free - - - - - - - 0 - - - 0 - - - - - - -	0 Free None - - - 75 0 31	0 Free - - 75 0 17 Major2 147 - 4.1	0 Free None - 0 0 75 0 95	0 Stop 0 0 0 75 0 24 Minor1 261 132 129 6.4	0 Stop None - - - 75 0 32
Free	Free None 75 0 31 N 0	Free	Free None - 0 0 0 75 0 95 N	Stop	Stop None - - - 75 0 32
	None 75 0 31	- - 75 0 17 Major2 147 - - 4.1	None	0 0 0 75 0 24 Minor1 261 132 129 6.4	None 75 0 32
	- - 75 0 31 - - -	- - 75 0 17 Major2 147 - - 4.1	0 0 75 0 95	0 0 75 0 24 Minor1 261 132 129 6.4	- - 75 0 32
e, # 0 0 75 0 116 <u>Major1</u> 0 -	- 75 0 31 N 0 -	75 0 17 Major2 147 - - 4.1	0 0 75 0 95	0 0 75 0 24 Minor1 261 132 129 6.4	75 0 32
0 75 0 116 Major1 0 -	75 0 31 N 0	75 0 17 Major2 147 - - 4.1	0 75 0 95 •••••••••••••••••••••••••••••••••	0 75 0 24 Minor1 261 132 129 6.4	75 0 32 132
75 0 116 Major1 0 - -	75 0 31 N 0 -	75 0 17 Major2 147 - - 4.1	75 0 95 ••• 0 -	75 0 24 Minor1 261 132 129 6.4	75 0 32 132
0 116 Major1 0 -	0 31 0 - -	0 17 Major2 147 - - 4.1	0 95 0 - -	0 24 Minor1 261 132 129 6.4	132 -
116 Major1 0	31 0 - -	17 Major2 147 - - 4.1	95 0 - -	24 Minor1 261 132 129 6.4	132 -
Major1 0 - - -	0 - -	Major2 147 - - 4.1	0 - -	Minor1 261 132 129 6.4	132
0 -	0 - - -	147 - - 4.1	0 - - -	261 132 129 6.4	-
0 -	0 - - -	147 - - 4.1	0 - - -	261 132 129 6.4	-
- - -	- -	- - 4.1 -	-	132 129 6.4	-
- - -	-	- 4.1 -	-	129 6.4	-
-	-	4.1 -	-	129 6.4	
-		-		6.4	6.2
	-	-	-		
-	_				-
	_	-	_	5.4	_
_	_	2.2	_	3.5	3.3
-	_	1447	_	732	923
_	_		_	899	720
-	_	_	_	902	_
	_	_		702	
	-	1//7		722	923
	-	1447			923
	-	-			-
	-	-	-		
-	-	-	-	891	-
EB		WB		NB	
0		1.2		9.7	
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		-			-
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	0.2	-	-	0	-
	0	EB 0 NBLn1 825 0.068 9.7 A	EB WB 0 1.2 NBLn1 EBT 825 0.068 0 9.7 A	1447	EB WB NB O 1.2 9.7 A NBLn1 EBT EBR WBL 825 - 1447 0.068 - 0.012 9.7 - 7.5 A

Intersection						
Int Delay, s/veh	1.3					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	ĵ.		¥	
Traffic Vol, veh/h	20	91	72	1	1	12
Future Vol, veh/h	20	91	72	1	1	12
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-	None	-	None
Storage Length	-	-		-	0	-
Veh in Median Storage	e.# -	0	0	_	0	_
Grade, %	- -	0	0		0	_
Peak Hour Factor	75	75	75	75	75	75
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	27	121	96	1	1	16
IVIVIII I IOW	21	121	70	I I		10
Major/Minor	Major1	N	Major2	N	/linor2	
Conflicting Flow All	97	0	-	0	272	97
Stage 1	-	-	-	-	97	-
Stage 2	-	-	-	-	175	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1509	-	-	-	722	965
Stage 1	-	_	-	_	932	-
Stage 2	_	_	_	_	860	_
Platoon blocked, %		_			000	
Mov Cap-1 Maneuver	1509	_	_	_	708	965
Mov Cap-1 Maneuver	1307	-	_	_	708	703
Stage 1					914	
Ğ		-	-		860	-
Stage 2	-	-	-	-	000	-
Approach	EB		WB		SB	
HCM Control Delay, s	1.3		0		8.9	
HCM LOS					Α	
Minor Long/Major M.	nt.	EDI	EDT	WDT	WDD	CDI1
Minor Lane/Major Mvn	III	EBL	EBT	WBT	WBR	
Capacity (veh/h)		1509	-	-	-	939
HCM Lane V/C Ratio	_	0.018	-	-	-	0.018
HCM Control Delay (s)		7.4	0	-	-	8.9
HCM Lane LOS	,	A	Α	-	-	A
HCM 95th %tile Q(veh)	0.1	-	-	-	0.1



Date: November 20, 2023

To: Nicholas Snead, City of Madras Community Development

From: Joe Bessman, PE

Project Reference No.: 1789

Project Name: Oak Street Multifamily

Transportation Addendum



This memorandum provides an alternative Transportation Planning Rule compliance approach to the proposed Oak Street multifamily project in response to comments received from the City's review. As the proposed development seeks rezoning from R-1 to R-3, this process requires that the project comply with State requirements within the Transportation Planning Rule, and specifically the section on Plan and Land Use Regulation Amendments (OAR 660-012-0060). The purpose of these provisions is to show that the proposed R-3 zoning does not require changes to the City's adopted transportation plans. While there are various means of demonstrating this compliance, as a first step this is most commonly assessed through comparison of a reasonable maximum allowable development scenario in the existing (R-1) and proposed (R-3) zoning.

In terms of creating a maximum scenario for the R-1 zoning, within our July 2023 scoping memorandum and our September 2023 transportation report we identified how build-out of the 3.5-acre parcel through subdivision into 30 separate 5,000 square-foot lots would then allow development with three townhomes per lot (up to 90 lots). This scenario leveraged the City's recently adopted middle-housing code, and while allowed as an outright use would need to continue to comply with various setbacks, lot coverage, parking, and other site-specific requirements. This hypothetical scenario results in a higher overall site density that could generate more trips than is proposed with the concurrent site plan. Therefore, as the proposed development remains below this threshold there are no additional impacts or changes needed to the functional classification or performance standards applied to surrounding transportation facilities, complying with the TPR.

While this middle housing density is listed as an outright permitted use within the City's R-1 zoning, staff's review comments noted conflicts within the City's adopted Comprehensive Plan. The description of the R-1 zoning within the Comprehensive Plan states the following:

"The intended residential density of the R-1 Zone is 4 - 7.3 dwelling units per gross acre as calculated and further refined in the Development Code."

While the City's Development Code is intended to implement the Comprehensive Plan and provides the relevant review criteria, in discussions with staff there were questions about whether this level of density could reasonably be created. Accordingly, subdivision of the 3.5-acre property and development of three townhomes on each of the newly-created 5,000 square-foot parcels would provide an effective density of 26.1 units per acre, and may not serve as an outright permitted use as stated within Table 18.15.040-2 of the City's Development Code (see Figure 1).

Table 18.15.040-2. Housing Types in the R-1, R-2, and R-3 Zones

Residential Use Category	R-1	R-2	R-3	Limitations and qualifications
Accessory dwelling unit	P	Р	Р	(a) Permitted in conjunction with one single detached dwelling.
Townhouse	P	P	P	 (a) See MDC 18.30.191, Townhouse design and development standards. (b) See MDC 18.30.190, Residential design standards.
One to three dwelling units, attached or detached	P	P	P	(a) Permitted on lots 5,000 square feet or greater, per MDC 18.50.030. (b) See MDC 18.30.190, Residential design standards.
One to four dwelling units, attached or detached	P	Р	Р	(a) Permitted on lots 7,500 square feet or greater. (b) See MDC 18.30.190, Residential design standards.

Figure 1. Allowable Residential Uses in Madras Development Code

In response to the concern that other Code provisions could prevent this density from being achieved, we noted that there are other outright allowed uses within the R-1 zoning that provide the same general level of development intensity and can also be used to show compliance with the TPR. While the City's review consultant review comments indicated that the provisions of the Oregon Highway Plan Action 1F.5 (Small Increase in Traffic) could be used to achieve this compliance, as these provisions apply only to ODOT's mobility targets on State facilities this would not serve as a suitable TPR compliance mechanism.

However, included within the outright allowable uses within R-1 zoning are daycare facilities, single family homes, parks and recreation facilities, and community centers. In review of these potential allowable uses, development of a portion of the property with a daycare facility would also create a reasonable and intense trip generation scenario. A typical daycare facility generally comprises about an acre of land and includes about 5,000 square-feet of building area. This would retain the remainder of the property (2.5 acres) for single-family detached residential use at the City's stated maximum allowable density of 7.3 units per acre, or 18 homes excluding any consideration of Accessory Dwelling Units or attached residential products. The resultant trip rates for this alternative trip generation scenario are presented in Table 1.

Table 1. Alternative R-1 Development Scenario

	1.75		\A(Weekday PM Peak Hour				
Land Use	ITE Code	Size	Weekday Daily Trips	Total	In	Out		
Single-Family Detached Housing ITE Average Trip Rate	210	Up to 18 Units	170 (9.43/Unit)	17 (0.57/Unit)	11 63%	6 37%		
Day Care Center	565	5,000 SF	238 47.62/KSF	56 11.12/KSF	26 47% In	30 53% Out		
Total Trips			408	73	37	36		

As included within the TIA and reviewed and approved by the City, the proposed development plans for the site include 60 multifamily units and 3 single-family detached residences within the R-3 zoning. A comparison of the trip generation potential of these proposed uses to the alternative development scenario shown in Table 1 are presented in Table 2.

Table 2. Comparative TPR Assessment

	\\\	Week	kday PM Peak Hour			
Scenario	Weekday Daily Trips	Total	In	Out		
Alternative R-1 Zoning Development Scenario (See Table 1)	408	73	37	36		
Proposed R-3 Zoning Development Plan (Concurrent Site Plan)	432	34	21	13		
Trip Difference (Proposed – Existing)	+24	-39	-16	-23		

This comparison shows that the proposed development continues to generate fewer weekday p.m. peak hour trips than could be generated under the R-1 zoning either with account of the multifamily uses or with this assessment of single-family detached units and a daycare facility. While this scenario shows a minor increase in the number of potential weekday daily trips, the City's Transportation System Plan assesses corridor capacity as a function of the weekday p.m. peak hour volumes (with the highest volume portion of Oak Street west of 7th Street operating well below capacity in 2035 at a v/c ratio of 0.316). Accordingly, the proposed amendment will not:

- Change the functional classification of an existing or planned transportation facility;
- Change standards implementing a functional classification system; or
- Result in the following:
 - Types or levels of travel or access that are inconsistent with the functional classification of an existing or planned transportation facility
 - Degrade the performance of an existing or planned transportation facility such that it would not meet the performance standards identified in the TSP or comprehensive plan;
 - Degrade the performance of an existing or planned transportation facility that is otherwise projected to not meet the performance standards identified in the TSP or comprehensive plan.

Accordingly, consistent with the original report the proposed development complies with the Transportation Planning Rule.

FINDINGS AND RECOMMENDATIONS

This supplemental analysis shows that the proposed development plan complies with the Transportation Planning Rule regardless of whether the multifamily housing scenario or an alternate development scenario is considered. This assessment includes a concurrent site plan application that is used as the basis for this comparative assessment. This concurrent site plan effectively serves as a "trip cap", and if there are substantive changes to the plan as presented within the traffic report, compliance with the TPR may need to be revisited.

Thank you for the opportunity to provide these supplemental materials, I can be reached for further comment or clarification at (503) 997-4473 or at joe@transightconsulting.com.